Clemons, Rutherford, & Associates, Inc.
2027 Thomasville Road Tallahassee, Florida 32308
Architects ■ Planners ■ Interior Designers ■ Construction Managers

LOCATION MAP

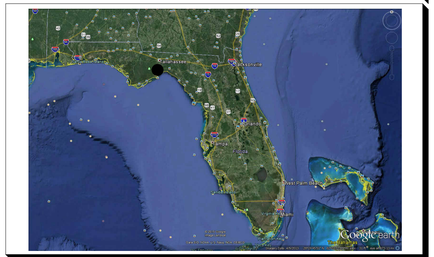


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VICINITY MAP



PROJECT INFORMATION

APPLICABLE CODES:

NFPA 101 LIFE SAFETY CODE	2024 EDITION
FLORIDA BUILDING CODE, BUILDING (FBC-B)	EIGHTH (2023) EDITION
FLORIDA ACCESSIBILITY CODE (FACBC)	EIGHTH (2023) EDITION
FLORIDA BUILDING CODE, MECHANICAL (FBC-M)	EIGHTH (2023) EDITION
FLORIDA BUILDING CODE, PLUMBING (FBC-P)	EIGHTH (2023) EDITION
FLORIDA BUILDING CODE, FUEL GAS (FBC, FG)	EIGHTH (2023) EDITION
FLORIDA BUILDING CODE, EXISTING BUILDING (FBC-EB)	EIGHTH (2023) EDITION
FLORIDA FIRE PREVENTION CODE (FFPC)	EIGHTH (2023) EDITION
NATIONAL ELECTRICAL CODE (NEC)	2023 EDITION

CONSTRUCTION TYPE: NFPA 101 TYPE II-B

BUILDING HEIGHT AND AREA:

NUMBER OF STORIES:	ONE (1) STORY
OVERALL BUILDING HEIGHT:	31' - 8" (+/-)
OVERALL BUILDING AREA:	12,501 SF

ALLOWABLE BUILDING HEIGHT AND AREA (FBC-CH 5):

Group A-3 Occupancy, SPRINKLED:

Allowable Height -	60 FEET
Height of Building -	2 Stories
Allowable Area -	24,000 SF

PRINCIPAL OCCUPANCY:

ASSEMBLY: YES (A-3)

OCCUPANT LOAD:

BUSINESS
2,154 SF OF BUSINESS SPACE
1 PERSON PER 150 SF
2,154/150 = 14 OCCUPANTS

LIBRARY (STACKS)
5,495 SF OF STACKS
1 PERSON PER 100 SF
5,495/100 = 55 OCCUPANTS

LIBRARY (READING ROOMS)
2,018 SF OF STORAGE SPACE
1 PERSON PER 50 SF
2,018/50 40 OCCUPANTS

ASSEMBLY (MTG. RM)
1,009 SF OF STORAGE SPACE
1 PERSON PER 515 SF
1,009/15 67 OCCUPANTS

TOTAL OCCUPANT LOAD 176 OCCUPANTS

METHOD OF STRUCTURAL FIREPROOFING OF PROJECT AREA:

SELF PROTECTING:	N/A
RATED MEMBRANE ASSEMBLY:	NONE
SPRAYED ON:	N/A
OTHER:	N/A

RATING:

EXTERIOR WALLS:	0 HOURS
COLUMNS:	0 HOURS
BEAMS:	0 HOURS
FLOOR:	0 HOURS
ROOF:	0 HOURS

CONSTRUCTION MATERIALS:

FLOOR:	CONCRETE SLAB
PARTITIONS:	GWB/WOOD
EXTERIOR WALLS:	WOOD STUD/HARDIE SIDING
STRUCTURE:	WOOD

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100% CONSTRUCTION DOCUMENTS

Submittal

Phase	Date
100% CONSTRUCTION DOCUMENTS	07/21/25
DESIGN DEVELOPMENT	04/29/25
SCHEMATIC DESIGN	03/25/25
-	-
-	-
-	-

Project Number

24071

Set No.

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07/21/25

ABBREVIATIONS (ARCHITECTURAL)

&	And
∠	Angle
@	At
℄	Center Line
⊏	Channel
○	Diameter Round Degrees
C	Degrees Celsius
F	Degrees Fahrenheit
'	Feet
>	Greater Than
"	Inches
<	Less Than
...'	Minutes (Plane Angle)
/	Per
%	Percent
⊥	Perpendicular
±	Plus or Minus
#	Pounds / Number
ℙ	Property Line / Plate
..."	Seconds (Plane Angle)
⊐	Square Feet
A,Amp	Ampere
A.B.	Anchor Bolt
A.C.	Above Ceiling
Acoust.	Acoustic, Acoustical
A/C	Air Condition
AC	Alternating Current
A.C.	Asbestos Cement Pipe
A.C.U.	Air Conditioning Unit
A.C.T.	Acoustic Ceiling Tile
A.D.	Access Door, Area Drain
Adj	Adjustable
A.D.O.	Automatic Door Operator
A.F.F.	Above Finish Floor
A.H.	Air Handler, Access Hatch
Alt.	Alternate, Altitude
Alum	Aluminum
A.L.P.	Acoustical Lay-in Panel
Anod.	Anodized
A.P.	Access Panel, Acoustical Panel
App.	Approximate
Arch.	Architectural
A.S.	As Shown
Asph.	Asphalt
A.T.	Acoustic Tile
AVG	Average
B.	Bins
B.B.	Bullentin Board
B.C.	Book Case
BD	Board
BE.	Bench
BF	Board Feet
B.G.	Bumper Guard
Bitum.	Bituminous
Bldg.	Building
Blk(G)	Block(ing)
BM.	Beam, Bench Mark
Btm	Bottom
Brg., Brng	Bearing
BTU	British Thermal Units
B.U.	Built Up
B.U.R.	Built-Up Roofing
Civ.	Civil
C/C	Center to Center
C.F.C.I.	Contractor Furnished / Contractor Installed
CCF	Hundred Cubic Feet
CCTV	Closed Circuit Television
Cab.	Cabinet
Conc.	Concrete
Cem.	Cement
Cer.	Ceramic
C.F.	Cubic Foot
C.FL.	Conductive Floor
CFM	Cubic Foot Per Minute
C.G.	Corner Guard, Center of Gravity
C.I.	Cast Iron
C.I.P.	Concrete In Place, Cast In Place Concrete
	Cast Iron Pipe
C.J.	Control Joint
CL.	Closet
C.L.	Center Line
CL. GL.	Clear Glass
Clg.	Ceiling
Clo.	Closet
Clr.	Clear, Clearance
CM	Centimeter
C.M.U.	Concrete Masonry Unit
C.N.L.	Conductive Neoprene Latex
Cntr	Counter
C.O.	Cased Opening, Clean Out
Col.	Column
Com.	Common
Const.	Construction
Cont.	Continuous
Coord.	Coordinate
Corr.	Corridor, Corrugated
C.P.	Concrete Plaster
Cpt	Carpet
CPM	Critical Path Method
CPS	Cycles Per Second
C.R.	Cold Rolled
C.S.	Cup Sink, Clinical Sink, Countersunk
C.S.F	Hundred Square Feet
C.S.W.	Center Shaft Wall
C.T.	Ceramic Tile
C.T.B.	Ceramic Tile Base
C.T.P.	Ceramic Tile Panel
Ctr.	Counter, Center
CTS	Copper Tube Size
Ctsk.	Countersink
Cu	Cubic
C.V.H.	Conductive Vinyle Homogenous (Sheet)
C.W.	Cold Water
C.Y.	Cubic Yard
D.B.A.	Deformed Bar Anchor
Dbl.	Double
Dept.	Department
Det.	Detail
D.F.	Drinking Fountain
Dia.	Diameter
Diag.	Diagnal, Diagram
Dim.	Dimension
D.I.P.	Ductile Iron Pipe
Disp.	Dispenser
Div.	Division, Divided
D.L.	Dead Load
Dn.	Down
DP	Damproofing
Dr.	Door
Drwr.	Drawer
D.S.	Downspout
D.B.S.	Double Strength "B" Quality Glass
DTL	Detail
D.W.	Dumbwaiter, Dishwasher
Dwg	Drawing
Dwg's	Drawings
DWV	Drain Waste Vent
E.	East
Ea.	Each
E.B.	Expansion Bolt
E.C.	Exposed Concrete
E.C.B.	Exposed Concrete Block
EDP	Electronic Date Processing
E.F.	Exhaust Fan
EIFS	Exterior Insulation Finish System
E.J.	Expansion Joint
Elec.	Electric(al)
Elev.	Elevator
El.	Elevation
Emerg.	Emergency
E.P.	Electrical Panel
EPY.	Epoxy Paint
Eq., Eql.	Equal
Equip.	Equipment
Equiv.	Equivalent
E.R.S.P.	Elliptical Reinforced Concrete Pipe
E.S.	Exposed Structure
E.W.	Each Way
E.W.C	Electric Water Cooler
Exh.	Exhaust
Exist.	Existing
Exp.	Exposed, Expansion
Ext.	Exterior, Extruded
F.	Fahrenheit
F.A.C.	Fire Apparatus Closet
F.A.I	Fresh Air Intake
FOB	Face of Brick
F.C.	Furring Channel
F.C.U.	Fan Coil Unit
F.D.	Floor Drain
Fdn	Foundation
F.D.V.C.	Fire Department Valve Cabinet
F.E.	Fire Extinguisher
F.E.C	Fire Extinguisher Cabinet
F.F.	Finish Floor
F.F.E	Finish Floor Elevation
F.G.	Fixed Glass, Floor Grate
F.H.	Flat Head, Flush Head, Fire Hydrant
F.H.C	Fire Hose Cabinet
F.H.&E.C.	Fire Hose & Extinguisher Cabinet
F.H.M.S	Flat Head Metal Screw
F.H.R.	Fire Hose Rack
F.I.	Film Illuminator
Fig.	Figure
Fin.	Finish
Fl., Flr.	Floor
Fluor.	Fluorescent
F.O.S.	Face of Studs
F.P.	Fire Partition, Fire Protection
F.R.	Fire Rated, Fire Riser
Fr.	Frame
F.R.P.	Fiber Reinforced Polyester
F.S.	Floor Sink, Full Size
F.S.R.S.	Flexible Sheet Roofing System
Ft.	Foot, Feet
Ftg.	Footing
Furr.	Furring
Fut.	Future
F.W.P.	Full Weight Partition
F.W.P.	Full Weight Partition
G	Gas
Ga.	Gauge
Galv.	Galvanized
G.B.	Grab Bar
G.C.	General Contractor
G.D.	Gypsum Deck
Gen.	Generator
Genl.	General
Gl	Glass, Glazing
G.M.	Galvanized Metal
G.M.L	Galvanized Metal Lath
G.M.S	Galvanized Metal Studs
G.M.U	Glazed Masonry Unit
GPH	Gallons Per Hour
GPM	Gallons Per Minute
Gr.	Grade
G.R.C	Glass Reinforced Concrete
G.S.	Gypsum Sheathing
G.S.P	Galvanized Steel Pipe
G.W.B.	Gypsum Wallboard
Gyp.	Gypsum
H., Ht	Height
H.B	Hose Bibb
Hbd	Hardboard
H.C.	Hollow Core
H.C.A	Headed Concrete Anchor
H/C	Handicapped
Hdwr., Hw.	Hardware
H.M.	Hollow Metal
Horiz.	Horizontal
H.P.	High Point, Horse Power, Heat Pump
H.R.	Hand Rail
Hr.	Hour
H.R.S	Health & Rehabilitative Services
H.S.	Heat Strengthened
Htg.	Heating
H.V.	Heat Seamed Soild Vinyl
H.V.A.C	Heating, Ventilation, & Air Conditioning
H.W.	Hot Water
Hz.	Hertz (Cycles Per Second)
I.D.	Inside Diameter
In.	Inch
Incl.	Include, Inclusive
Insul.	Insulation
Int., Intr	Interior
Inv.	Invert
I.P.	Isolation Panel
I.P.S	Inside Pipe Size
IPS	Iron Pipe Size
I.T.	Isolation Transformer
I/O Cpt.	Indoor/Outdoor Carpet
Jan.	Janitor
J.B.	Junction Box
Jst.	Joist
Jt	Joist
K.E	Kitchen Equipment
K.C.	Kneene's Cement
Kit., K	Kitchen
K.O.	Knock Out
K.P.	Kick Plate
K.S.	Knee Space
L	Ladder, Length, Landscaping
Lab.	Laboratory
Lam.	Laminate
Lat.	Latitude
Lav.	Lavatory
Lbl.	Label
Lb, Lbs	Pounds
L.C.	Laundry Chute
L.F.	Linear Feet
Lg	Long
L.H.	Left Hand
Lin.	Linen
Lkr.	Locker
L.L	Lead-Lined, Live Load
L.L.D	Lead Lined Door
L.P	Light Pole, Low Point
L.P.D	Light Proof Door
L.P.S	Light Proof Shade
Loc.	Location
Louv.	Louver, Louvered
Lt.	Light
Ltg.	Lighting
Ltwt.	Lightweight
M.	Thousands
Mas.	Masonry
Mat.	Material
Max.	Maximum
M.B.	Machine Bolt, Marker Board
M.B.M.	Metal Building, Manufacturer
M.C.	Medicine Cabinet
M.C.O	Metal Cased Opening
M.D.S	Metal Divider Strip
Mech.	Mechanic(al)
Med.	Medium
Memb.	Memeber
Mtl.	Metal
Mezz.	Mezzanine
Mfd., Mfg	Manufactured, Manufacture
Mfgr.	Manufacturer
Mh.	Manhole
M/Hr.	Manhour(s)
MH∡	Megahertz
Mil.	Millimeter
Min.	Minimum, Minute
Mir.	Mirror
Misc.	Miscellaneous
Mldg.	Moulding, Molding
M.L.W	Mean Low Water
M.N.I.C	Material Not in Contract
M.O.	Masonry Opening
Mod.	Modified
M.O.L	More or Less
Mon.	Monument
M.P.	Movable Partition
MPH	Miles Per Hour
M.R.	Moisture Resistant
M.S.	Metal Stud, Metal Stair, Machine Screw
M.S.L	Mean Sea Level
M.T.	Metal Threshold
Mtd	Mounted
M.W.R	Masonry Wall Reinforcing
Mt'l	Material
Mull.	Mullion
Mv	Megavolt
Mw	Megawatt
(N)	New
N.	North
N.I.C	Not In Contract
N.L	Neoprene Latex
No.	Number
Nom.	Nominal
N.R.(C)	Noise Reduction (Coefficient)
N.T.S	Not to Scale
O	Diameter, Round
Obs.	Obscure
Oa.	Overall
O.F.C.I	Owner Furnished / Contractor Installed
O.C. (H/V)	On Center (Horizontally / Vertically)
O.D.	Outside Dimension, Overall Dimension
	Outside Diameter
Off.	Office
O.H.	Opposite Hand, Oval Head, Over Head
O.O	Owner Furnished / Owner Installed
Opg.	Opening
Opp.	Opposite
O.W	Observation Window
Oz	Ounce
Pl	Plate, Property Line
P(f)	Plumbing (Fixture)
Par.	Parallel
Part.	Partition(s)
P.C.C	Precast Concrete
P.C.F	Pounds Per Cubic Foot
P.H	Pan Head
Pil.	Pilaster
Plas.	Plaster, Plastic
Plas. Lam.	Plastic Laminate
P.L.F	Pounds Per Lineal Foot
Plywd.	Plywood
Pnl.	Panel
Pol.	Polished
Port.	Portable
P.P.	Power Pole
P.P.G	Polished Plate Glass
Pr.	Pair
Prestr.	Prestressed
P.R.V	Power Roof Ventilator
P.S	Pipe Space
P.S.F	Pounds Per Square Foot
P.S.I	Pounds Per Square Inches
P.T	Pressure Treated, Pneumatic Tube
Pt	Paint. Point
P.T.D	Paper Towel Dispenser
Ptd	Painted
P.V.C	Polyvinyl Chloride, Polyvinyl Chloride Pipe
Pvmt.	Pavement
P.W.	Pass Window
PEMB	Pre-Engineered Metal Building
Q.T	Quarry Tile
Qtr.	Quater
(R)	Relocated Item
R	Riser, Radius
R.A.	Return Air
Rad.	Radius
R.B.	Rubber Base
R.C.	Runner Channel
R.C.P	Reinforced Concrete Pipe
R.D.	Roof Drain
Re.	Relative To
Recep.	Receptacle
Recp.	Reception
Ref.	Reference
Rfg.	Refrigerator
Reg.	Reglet, Register
Reinf.	Reinforcing(ed)
Req'd	Required
Res.	Resilient
Rev.	Reverse, Revised (sion)
R.H.	Round Head, Robe Hook, Right Hand,Roof Hatch
Rk.	Rack
R.L	Roof Ladder, Rain Leader
Rm.	Room
R.O	Rough Opening
R.O.W	Right of Way
R.P	Retractable Partition
RPM	Revolutions Per Minutes
R.R.	Rest Room
R.S	Roof Scuttle
R.S.D	Recessed Soap Dish
Sec.	Second
S&R	Self & Rod
S.	South , Similar, Structural
S.A.B	Sound Attenuation Blanket
San.	Sanitary
S.A.T	Suspended Acoustical Tile
S.B	Shower Bench
S.B.C	Standard Building Code
S.C	Special Coating, Solid Core
Sched.	Schedule
Scrn.	Screen
S.C.I	Spinal Cord Injury
S.C.R	Shower Curtain Rod
S.C.W.	Solid Core Wood
S.D	Soap Dish, Storm Drain
Seal.	Sealant
Sect.	Section
Serv.	Service
S.F	Square Feet
S.F.C.A	Square Feet Contract Area
S.F.T.U	Structural Fcing Tile Unit
Sh., Shl.	Shelving, Shelf
Shthg.	Sheathing
Sim.	Similar
S.L	Ships Ladder
S.M.	Sheet Metal
S.M.S	Sheet Metal Screw
Sp.	Space(s)
S.P.D	Sound Proof Door
Spec.(s)	Specification(s)
Sq.	Square
Sq.Ft.	Square Feet
Sq.Hd.	Square Head
Sq.In.	Square Inch
Sq.Yd.	Square Yard
S.S	Stainless Steel
S/S	Sanitary Sewer
Sta.	Station
Std.	Standard
Stl.	Steel
Stor.	Storage
Struct.	Structutral
Susp.	Suspend(ed)
S.W	Storm Water
T.	Title
Ta.	Table
T.B	Toggle Bolt, Towel Bar
T.& B.	Top & Bottom
Tel.	Telephone
Temp.	Tempered, Temperature
Terr.	Terrazzo
T&G	Tongue & Groove
T.H	Truss Head
Thk.	Thick(ness)
Thres.	Threshold
Thru.	Through
T.O.C	Top Of Concrete
Toil.	Toilet
T.O.S	Top of Steel, Slab or Structure
T.P.D	Toilet Paper Dispenser
T.P.H	Toilet Paper Holder
Tr.	Tread
Treat.	Treatment
Ts.	Thinset
T.T	Terrazzo Tile Resinous Matrix
TV	Television
Typ.	Typical
Uc.	Undercut
U.N.O	Unless Noted Otherwise
Ur.	Urinal
U.S	Urinal Screen
Util.	Utility
V.	Volt
V.A	Veterans Administration
V.B.	Vinyl Base
V.C.T	Vinyl Composition Tile
Vert.	Vertical(ly)
Vest.	Vestibule
V.H.	Vinyl Homogenous
V.I.F	Verify In Field
V.P	Veneer Plaster
V.T.R	Vent Throuh Roof
V.T.S	Vinyl Transition Strip
Vin.	Vinyl
V.W.C	Vinyl Wallcovering
V.W.E	Verify With Equipment
Wa.	Water
W.	West, Width, Wall Fabric, Watt
W/	With
Wains.	Wainscot
W.B.	Wall Bumper Guard
W.C.	Water Closet
W/C	Wheelchair
W.C.O	Wood Cased Opening
Wd.	Wood
W.D	Window Dimension
WDW	Window
W.F	Wide Flange Beam
W.H	Water Heater
W.I	Wrought Iron
W.M	Water Meter
W.O	Where Occurs
W/O	Without
W.P	Waterproof(ing)
W.R	Waste Receptacle
W.S	Wood Screw
Wt.	Weight
Wtr.	Water
W.W.F	Welded Wire Fabric
W.W.M	Welded Wire Mesh
Yd.	Yard
Yr.	Year

WAKULLA COUNTY PUBLIC LIBRARY

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100% CONSTRUCTION DOCUMENTS

Submittal

Phase	Date
100% CONSTRUCTION DOCUMENTS	07/21/25
DESIGN DEVELOPMENT	04/29/25
SCHEMATIC DESIGN	03/25/25
-	-
-	-
-	-

Project Number

24071

Set No.

C:\Users\byarbrough\Documents\24071_100CDrvt_byarbrough@craarchitects.com.rvt

07/21/25

WAKULLA COUNTY LIBRARY

SITE DEVELOPMENT PLAN SUBMITTAL

WAKULLA COUNTY, FLORIDA

GENERAL NOTES:

1. ALL STRUCTURES, CONCRETE, TREES, BRUSH AND RUBBISH SHALL BE REMOVED AND ACCEPTABLY DISPOSED OF.

2. ALL ORGANIC MATTER SHALL BE REMOVED FROM FILL AREAS.

3. ALL FILL AREAS SHALL BE COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

4. ALL SLOPES STEEPER THAN 4:1 SHALL BE TREATED WITH SEED AND MULCH.

5. EROSION CONTROL BALES OR SILT FENCE SHALL BE PLACED AT THE TOE AND DRAINAGE OUTFALL POINTS OF ALL SLOPES 4:1 OR STEEPER TO PREVENT SILTATION ON STREETS. REFER TO STORMWATER MANAGEMENT PLAN FOR DETAIL AND LOCATION OF EROSION CONTROL MEASURES.

6. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, COUNTY AND STATE REGULATIONS PERTAINING TO GRADING, DUST AND EROSION.

7. NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME. ALL TREES TO BE REMOVED OR RELOCATED WILL BE MARKED BY THE OWNER PRIOR TO REMOVAL.

8. TOPSOIL SHALL BE STOCKPILED TO THE EXTENT PRACTICABLE ON THE SITE FOR USE ON AREAS TO BE REVEGETATED. ANY AND ALL STOCKPILES SHALL BE LOCATED AND PROTECTED FROM EROSIVE ELEMENTS.

9. AT ALL TIMES, THE PROPERTY SHALL BE MAINTAINED AND/OR WATERED TO PREVENT WIND-CAUSED EROSION. EARTHWORK OPERATIONS SHALL BE DISCONTINUED WHEN FUGITIVE DUST SIGNIFICANTLY IMPACTS ADJACENT PROPERTY. IF EARTHWORK IS COMPLETE OR DISCONTINUED AND DUST FROM THE SITE CONTINUES TO CREATE PROBLEMS, THE CONTRACTOR SHALL IMMEDIATELY INSTITUTE MITIGATIVE MEASURES AND SHALL CORRECT DAMAGE TO ADJACENT PROPERTY.

10. ALL EXISTING UTILITY LINE LOCATIONS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

11. THE TYPE, SIZE, LOCATIONS AND NUMBER OF KNOWN UNDERGROUND UTILITIES ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. HOWEVER, EXACT LOCATIONS AND THE TYPE OF EXISTING UTILITIES ARE APPROXIMATE AND NOT NECESSARILY ALL INCLUSIVE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE AREA OF WORK. BEFORE COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITIES.

12. CONSTRUCTION STAKING TO BE PROVIDED BY THE CONTRACTOR.

13. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO THE INSPECTION AND ACCEPTANCE BY THE OWNER. THE OWNERS RESERVE THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THEIR STANDARDS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTANCE AND CONTROL OF ALL FLOWS INCLUDING SURFACE WATER AND GROUNDWATER INFLOW INTO THE PROJECT SITE.

15. THE CONTRACTOR SHALL HAVE A COPY OF THE CONTRACT PLANS AND SPECIFICATIONS ON SITE AT ALL TIMES.

16. THE OWNER WILL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION ACCESS APPROVALS, FOR ALL PROPERTIES ASSOCIATED WITH THE CONSTRUCTION.

17. UNLESS OTHERWISE INDICATED, PIPE LENGTHS SHOWN ON THESE PLANS ARE BASED ON HORIZONTAL DISTANCES BETWEEN STATIONS AND ARE NOT NECESSARILY THE TRUE LENGTHS OF THE PIPE. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE TRUE LENGTH REQUIRED.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING FEATURES AND FACILITIES FROM DAMAGE AND SHALL REPAIR OR REPLACE DAMAGED FEATURES AND FACILITIES AT HIS OWN EXPENSE.

19. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY CONDITIONS THAT ARE NOT CONSISTENT WITH THE DRAWINGS AND/OR SPECIFICATIONS.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL SURFACES AND RELATED STRUCTURES INCLUDING BUT NOT LIMITED TO CURB AND GUTTER, SIDEWALK, ASPHALT AND CONCRETE WEARING SURFACES TO THE ORIGINAL CONDITIONS.

21. COMPACTION FOR ALL FILL ZONES AND SUBGRADES SHALL BE AT MINIMUM 95-PERCENT OF THE MODIFIED PROCTOR DRY DENSITY (ASTM D-1557) AND WITHIN 1-PERCENT BELOW AND 3-PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT. FILL LIFTS SHALL NOT BE PLACED IN GREATER THAN 8-INCH BULK LIFTS.

22. ALL CONCRETE SHALL MEET FDOT SPECIFICATIONS. ALL CONCRETE SHALL USE TYPE II PORTLAND CEMENT.

23. PROPERTY PINS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR AND SHALL INCLUDE SURVEYING AT THE CONTRACTOR'S EXPENSE, IF REQUIRED TO RESET THE PINS.

24. IF DURING CONSTRUCTION OR OPERATION OF THE STORMWATER MANAGEMENT SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDIAN AQUIFER SYSTEM, CORRECTIVE ACTIONS DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS PRACTICALLY POSSIBLE TO CORRECT THE FAILURE. A REPORT PREPARED BY A REGISTERED PROFESSIONAL MUST BE PROVIDED AS SOON AS PRACTICAL TO THE NWFWMD FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED.

25. ANY MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN AN APPROVED LOCATION.

26. ALL ROOF DRAINAGE SHALL BE DIRECTED INTO THE STORMWATER MANAGEMENT SYSTEM.

27. ALL CONSTRUCTION RELATED ACTIVITIES SHALL ADHERE TO THE THE FOLLOWING DESIGN STANDARDS AS APPLICABLE:

A. THE FDOT DESIGN STANDARDS, 2024-2025 EDITION
B. THE FDOT STANDARD SPECIFICATIONS OR ROAD AND BRIDGE CONSTRUCTION.
C. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION WITH REVISIONS 1 AND 2, DATED MAY 2012.
D. THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
E. THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION, CURRENT EDITION.



VICINITY MAP

NTS

SHEET INDEX

SHEET NUMBER		TITLE
T-1	-	COVER SHEET
C-0	-	EXISTING CONDITIONS
C-1	-	DEMOLITION & EROSION CONTROL PLAN
C-2	-	SITE PLAN INDEX
C-3	-	SITE PLAN - NORTH
C-4	-	SITE PLAN - SOUTH
C-5	-	GRADING PLAN INDEX
C-6	-	GRADING PLAN - BUILDING
C-7	-	GRADING PLAN - SOUTH
C-8	-	GRADING PLAN - NORTH
C-9	-	DRIVEWAY PLAN & PROFILE
C-10	-	UTILITY PLAN
C-11	-	FIRE COVERAGE PLAN
C-12	-	SWMF PLAN & PROFILE
C-13	-	SW PIPES PLAN & PROFILE
C-14	-	CONSTRUCTION DETAILS 1
C-15	-	CONSTRUCTION DETAILS 2
C-16	-	CONSTRUCTION DETAILS 3
C-17	-	CONSTRUCTION DETAILS 4
C-18	-	CONSTRUCTION DETAILS 5

PROJECT DATA

PROJECT NAME:	WAKULLA COUNTY LIBRARY WAKULLA COUNTY B.O.C.C. 3093 CRAWFORDVILLE HWY. CRAWFORDVILLE, FL 32327
ENGINEER OF RECORD:	LESLIE WEISS, P.E. HYDRA ENGINEERING & CONSTRUCTION, LLC 36 JASPER THOMAS ROAD CRAWFORDVILLE, FL 32327 (850) 926-2593
TOPOGRAPHIC SURVEY BY:	EDWIN BROWN & ASSOCIATES INC. 2813 CRAWFORDVILLE HWY CRAWFORDVILLE, FL 32327 (850) 926-3016
VERTICAL DATUM	NAVD88

SITE DATA

TAX ID #:	00-00-072-000-10150-000
TOTAL PROJECT AREA:	± 22.31 AC
ZONING	AG - AGRICULTURAL

PLANS PREPARED BY:
HYDRA ENGINEERING & CONSTRUCTION, LLC

JULY 21, 2025

CALL BEFORE YOU DIG!
SUNSHINE STATE ONE CALL
811
CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

C.A. #28124
36 Jasper Thomas Road
Crawfordville, Fl 32327
PH 850-926-2593
FX 850-926-9257

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PREPARED UNDER DIRECTION OF:

LESLIE A. WEISS, P.E. #56452
HYDRA ENGINEERING AND CONSTRUCTION, LLC
CA # 28124

DATE

0 30 60 120 Feet

1"=30'

LEGEND:

- EXISTING PAVEMENT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING 1.0' INTERVAL CONTOUR
- OHE — EXISTING ELECTRICAL LINE
- W — EXISTING WATER LINE
- PROPERTY BOUNDARY
- EXISTING TREE

R/W

TRICE LANE

CONCRETE RIBBON WALK

TACTILE TAP

PAVEMENT

CONCRETE

GRAVEL DRIVEWAY

PARKING BUMPS

ELECTRIC TRANSFORMER CABINET

UTILITY VAULT

EXISTING BUILDING

EXISTING BUILDING

EXISTING BUILDING

CONCRETE

LIFT STATION
TOP=26.90
BOTTOM=20.81
INVERT=25.35
FLOAT=21.57

HYDRANT & BACKFLOW PREVENTION DEVICE

EXISTING WATER MAIN (LOCATION APPROXIMATED)

GRAVEL DRIVEWAY

BRICK COLUMN

UTILITY CABINET

TRAFFIC LIGHT POST

PAVED BIKE PATH

SIGN

UTILITY VAULT

EXISTING 30" RCP INV. 23.09'

SHADEVILLE ROAD

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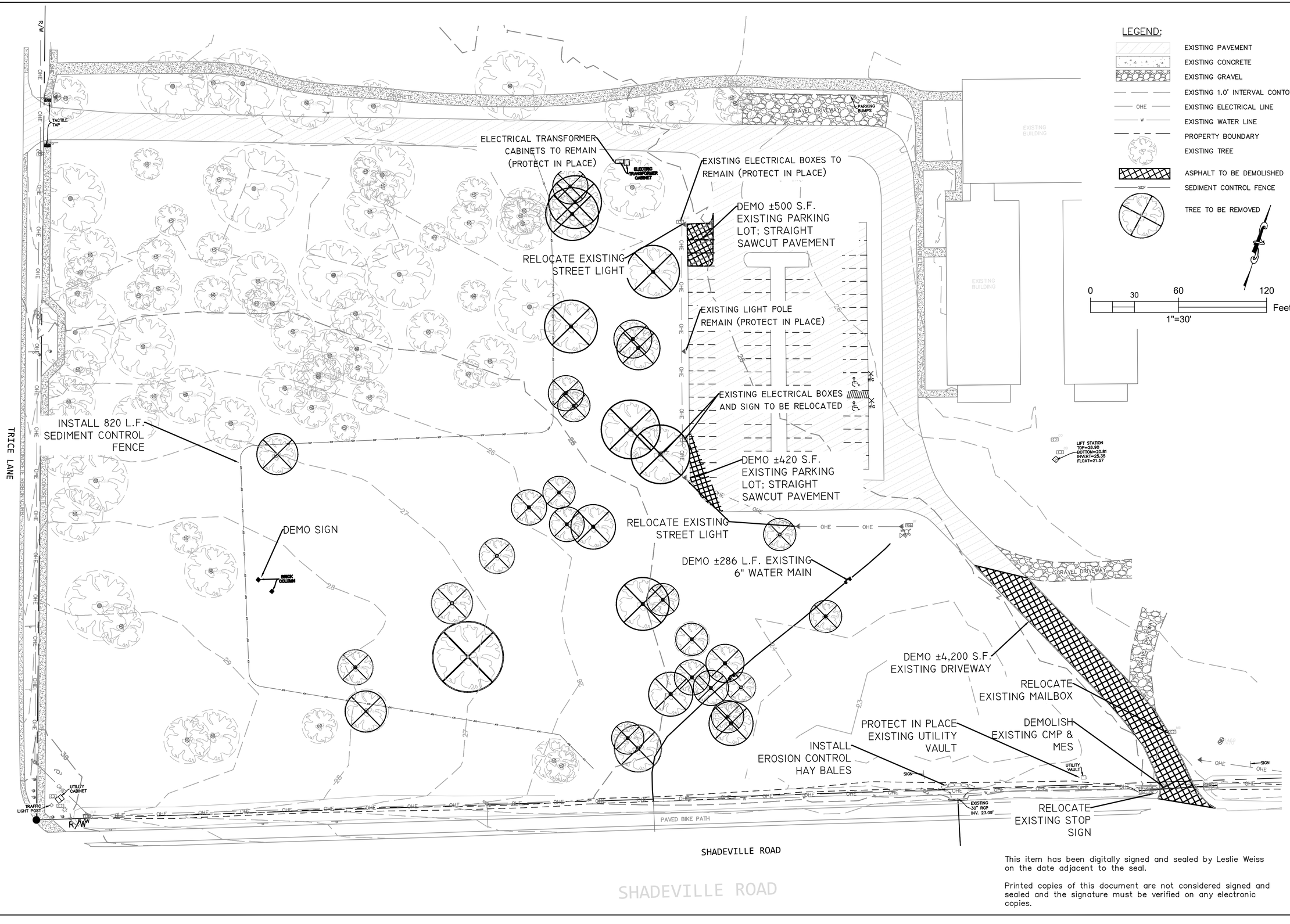
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FLORIDA CA#28124

WAKULLA COUNTY B.O.C.C
CRAWFORDVILLE, FL

WAKULLA COUNTY LIBRARY
EXISTING CONDITIONS

PROJECT NO.
2024110

C0



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BEFORE YOU BEGIN EXCAVATION
FOR THE MARKING OF
UNDERGROUND MEMBER UTILITIES

NO.	DATE	REVISION	BY

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CRAWFORDVILLE, FL

WAKULLA COUNTY LIBRARY
DEMOLITION & EROSION CONTROL PLAN

PROJECT NO.
2024110

C1

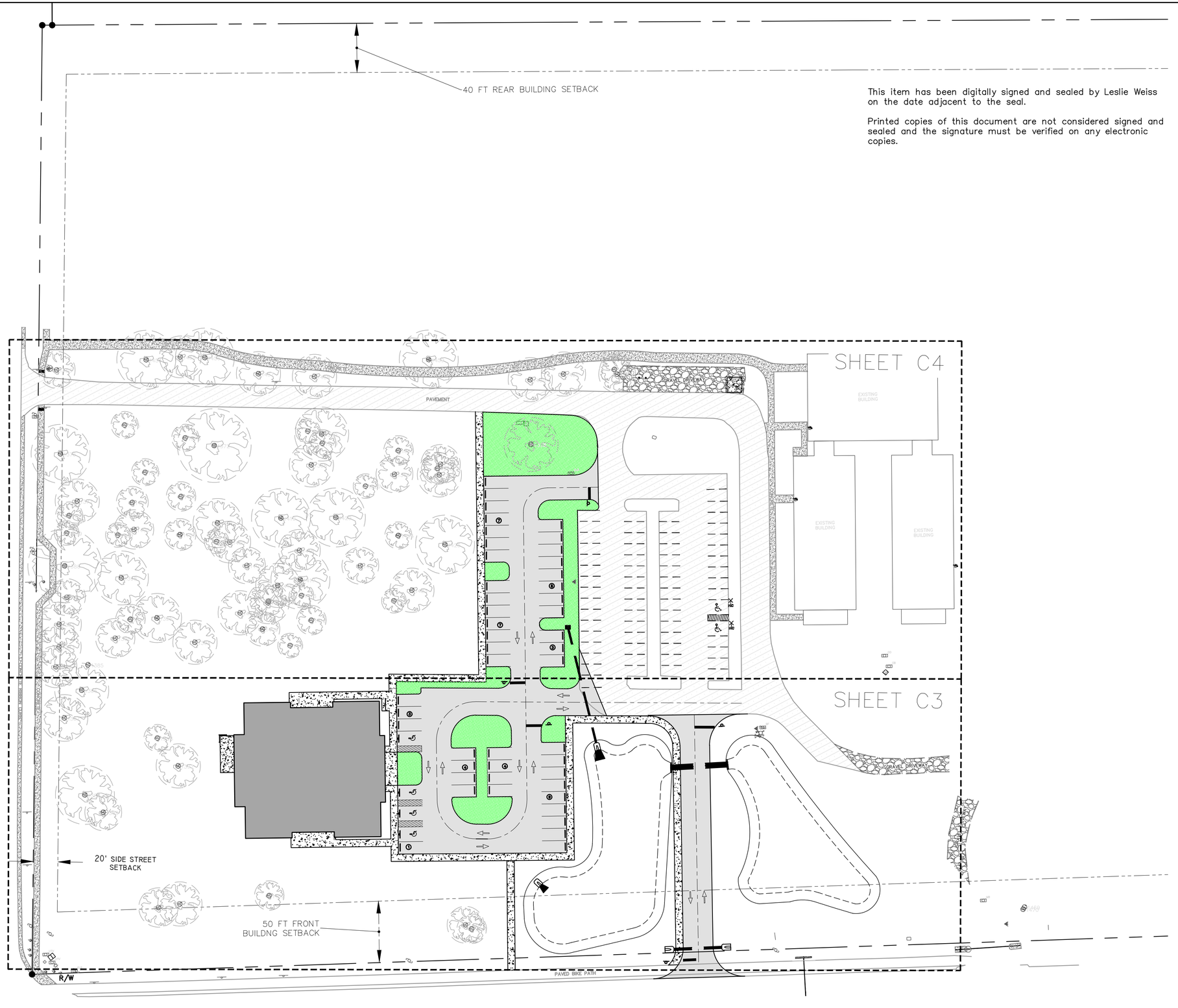
LEGEND:

- EXISTING PAVEMENT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING 1.0' INTERVAL CONTOUR
- OHE — EXISTING ELECTRICAL LINE
- W — EXISTING WATER LINE
- PROPERTY BOUNDARY
- EXISTING TREE
- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED LANDSCAPE ISLAND
- PROPOSED D50 RIP RAP
- DIRECTION OF TRAFFIC FLOW (NOT TO BE PAINTED)
- PROPOSED SWMF TOP
- PROPOSED SWMF BOTTOM

0 40 80 160 Feet

1"=40'

SITE DATA TABLE			
WAKULLA LIBRARY			
PARCEL #: 00-00-072-000-10150-000			
AGRICULTURAL ZONING	AREA (SF)	AREA (AC)	% SITE
Total PARCEL AREA	971,825	22.31	100.00%
PROJECT LIMITS	203,742	4.68	20.96%
SITE INFORMATION			
	EACH		
EXISTING PARKING SPACES	64		
EXISTING ADA PARKING SPACES	2		
PROPOSED BUILDING HEIGHT MAX	32		
PARKING SPACES REQUIRED (I SPACE/400 SQ FT)	31		
REQUIRED BIKE PARKING SPACES (REQ PARKING*0.15)	5		
REQUIRED ADA PARKING SPACES	3		
PROVIDED PARKING SPACES	46		
PROVIDED ADA PARKING SPACES	4		
PROPOSED BUILDING (SQ FT)	12,575		
SETBACKS	FT		
FRONT	50		
REAR	40		
SIDE	15		
SIDE STREET	20		
EXISTING IMPERVIOUS - WITHIN PROJECT LIMITS			
	AREA (SF)	AREA (AC)	% SITE
ONSITE DRAINAGE AREA	203,742	4.68	100.00%
EXISTING BUILDING	5,946	0.14	2.92%
EXISTING ASPHALT	33,778	0.78	16.58%
EXISTING CONCRETE	780	0.02	0.38%
EXISTING GRAVEL	1,959	0.04	0.96%
TOTAL IMPERVIOUS - CONTRIBUTING BASINS	42,463	0.97	20.84%
GREEN SPACE	161,279	3.70	79.16%
DEMOLISHED IMPERVIOUS			
	AREA (SF)	AREA (AC)	% SITE
DEMOLISHED ASPHALT	5,120	0.12	2.51%
PROPOSED CONDITIONS			
	AREA (SF)	AREA (AC)	% SITE
PROPOSED ASPHALT	31,978	0.73	15.70%
PROPOSED BUILDING	12,575	0.29	6.17%
PROPOSED CONCRETE	7,903	0.18	3.88%
PROPOSED SWMF	23,154	0.53	11.36%
TOTAL PROPOSED IMPERVIOUS WITHIN PROJECT LIMITS	75,610	1.74	37.11%
POST-CONSTRUCTION IMPERVIOUS WITHIN PROJECT LIMITS	112,952	2.59	55.44%
POST-CONSTRUCTION GREEN SPACE WITHIN PROJECT LIMITS	90,789	2.08	44.56%
4 ADA PARKING SPACES PROVIDED			
46 NON ADA PARKING SPACES PROVIDED			



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CALL 2 BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG - GRADE, OR
EXCAVATE FOR THE MARKING OF
UNDERGROUND MEMBER UTILITIES

NO.	DATE	REVISION	BY

DRAWN BY: DMJ
CHECKED BY: LAW
DATE: 7/21/2025
FILE:

HYDRA ENGINEERING & CONSTRUCTION, LLC
36 JASPER THOMAS ROAD
CRAWFORDVILLE, FL 32327
PHONE (850) 926-2593
FAX (850) 926-9257
WWW.HYDRAEC.COM
FLORIDA CA#28124

WAKULLA COUNTY B.O.C.C.
CRAWFORDVILLE, FL

WAKULLA COUNTY LIBRARY
SITE PLAN INDEX

PROJECT NO.
2024110

C2

LEGEND:

EXISTING PAVEMENT
EXISTING CONCRETE
EXISTING GRAVEL
EXISTING 1.0' INTERVAL CONTOUR
OHE — EXISTING ELECTRICAL LINE
W — EXISTING WATER LINE
PROPERTY BOUNDARY
EXISTING TREE
PROPOSED BUILDING
PROPOSED CONCRETE
PROPOSED ASPHALT
PROPOSED LANDSCAPE ISLAND
PROPOSED D50 RIP RAP
DIRECTION OF TRAFFIC FLOW (NOT TO BE PAINTED)
PROPOSED SWMF TOP
PROPOSED SWMF BOTTOM

0 20 40 80 Feet
1"=20'

PROPOSED BUILDING
12,575 SQFT
FFE ELEV.: 30.0'

TYPICAL PAVEMENT SECTION 3.0/C14

PROPOSED LANDSCAPE ISLAND

PROPOSED FDOT TYPE C INLET INDEX # 425-052 (TRAVERSABLE)

6" WHITE PAINTED STRIP (TYP.)

PROPOSED R1-1 STOP SIGN WITH 24" STOP BAR PER FDOT INDEX 711-0019 (TYP)

2.0/C14 PROPOSED ADA PARKING SPACE WITH ADA SIGN AND WHEEL STOP (TYP.)

1.5/C16 PROPOSED BIKE RACK

4.0/C14 INSTALL 6' WIDE SIDEWALK

60 LF SAWCUT EXISTING ASPHALT

EXISTING HYDRANT& BACKFLOW PREVENTER

PROPOSED 12" MITERED END SECTION 1.0/D17

PROPOSED D50 6" RIP RAP

6" WHITE PAINTED STRIP (TYP.)

PROPOSED 8" MITERED END SECTION 1.0/D17

PROPOSED D50 6" RIP RAP

SWMF 1
TOP ELEV: 24.0'
BOTTOM ELEV: 22.0'

SWMF 2
TOP ELEV: 24.0'
BOTTOM ELEV: 22.0'

6" WHITE DASHED PAINTED STRIP

PROPOSED 1.0/C14 CONCRETE WEIR

INSTALL 6' WIDE 4.0/C14 SIDEWALK

2.0/C14 PROPOSED ADA PARKING SPACE WITH ADA SIGN AND WHEEL STOP (TYP.)

INSTALL 6' WIDE 4.0/C14 SIDEWALK

50 FT FRONT BUILDNG SETBACK

PAVED BIKE PATH

SHADEVILLE RD

PROPOSED R1-1 STOP SIGN WITH 24" STOP BAR PER FDOT INDEX 711-001

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DRAWN BY: DMJ
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WAKULLA COUNTY B.O.C.C.
CRAWFORDVILLE, FL

WAKULLA COUNTY LIBRARY
SITE PLAN - SOUTH

PROJECT NO.
2024110

C3

LEGEND:

- EXISTING PAVEMENT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING 1.0' INTERVAL CONTOUR
- OHE — EXISTING ELECTRICAL LINE
- W — EXISTING WATER LINE
- PROPERTY BOUNDARY
- EXISTING TREE
- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED LANDSCAPE ISLAND
- PROPOSED D50 RIP RAP
- DIRECTION OF TRAFFIC FLOW (NOT TO BE PAINTED)
- PROPOSED SWMF TOP
- PROPOSED SWMF BOTTOM

0 20 40 80 Feet

1"=20'

CONCRETE

PAVEMENT

INSTALL (2) TWO BOLLARDS (3.4/C15)

GRAVEL DRIVEWAY

INSTALL 40 L.F. DUMPSTER ENCLOSURE FENCE (3.2/C14)

PROPOSED 12'X12' DUMPSTER PAD (3.1/C14)

12'

12'

EXISTING BUILDING

6'

R20'

50 LF SAWCUT EXISTING ASPHALT

PROPOSED R1-1 STOP SIGN WITH 24" STOP BAR PER FDOT INDEX 711-0019 (TYP)

N71° 52' 04.17"E 41.431'

L=31.4 R=20.0

6" WHITE PAINTED STRIP (TYP.)

10'

⑦

20'

24'

R5'

220.07'

TYPICAL PAVEMENT SECTION (3.0/C14)

PROPOSED LANDSCAPE ISLAND

PROPOSED FDOT TYPE C INLET INDEX # 425-052 (TRAVERSABLE)

6" WHITE PAINTED STRIP (TYP.)

N18° 09' 06.66"W 233.174'

⑧

10'

⑦

③

20'

PROPOSED ADA PARKING SPACE WITH ADA SIGN AND WHEEL STOP (TYP.) (2.0/C14)

PROPOSED BIKE RACK (3.5/C16)

PROPOSED R1-1 STOP SIGN WITH 24" STOP BAR PER FDOT INDEX 711-0019 (TYP)

INSTALL 6' WIDE SIDEWALK (4.0/C14)

36'

45'

6'

79'

5'

216.247'

S72° 54' 38.97"W

R12'

60 LF SAWCUT EXISTING ASPHALT

EXISTING HYDRANT& BACKFLOW PREVENTER

CONCRETE

EXISTING BUILDING

L=50.9 R=32.0

PROPOSED LANDSCAPE ISLAND

R20'

R12'

68'

PROPOSED 12" MITERED END SECTION (1.0/C17)

R19'

123'

21'

PROPOSED BUILDING

E 99.66'

N 06.66' W 174'

PROPOSED D50 6"

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SUNSHINE STATE ONE CALL
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NO.	DATE	REVISION	BY

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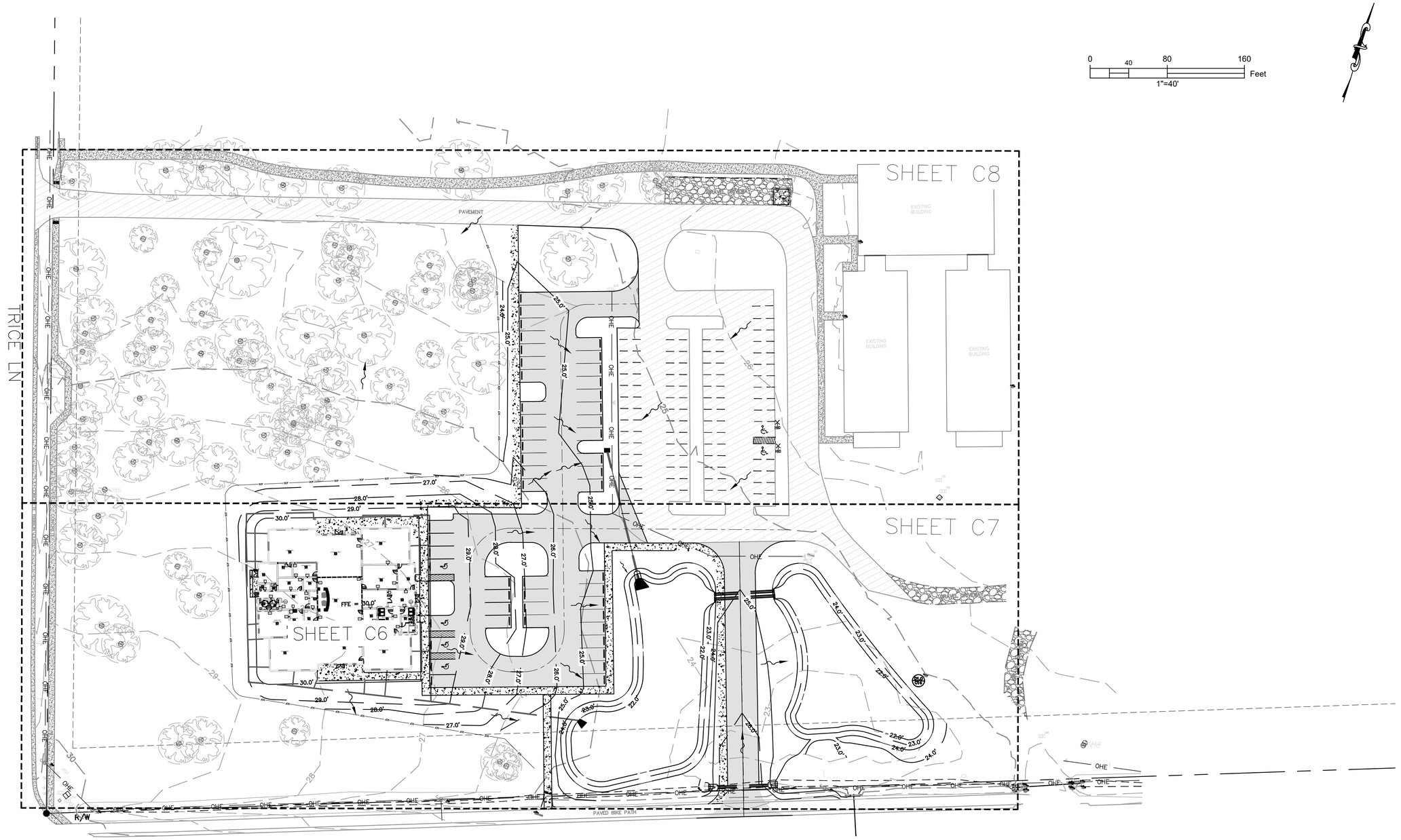
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WAKULLA COUNTY B.O.C.C.
CRAWFORDVILLE, FL

WAKULLA COUNTY LIBRARY
SITE PLAN - NORTH

PROJECT NO.
2024110

C4



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CRAWFORDVILLE, FL

WAKULLA COUNTY LIBRARY
GRADING PLAN INDEX

PROJECT NO.
2024110

C5

CLEANOUT
RIM:28.31
INV IN: 25.94
INV OUT: 25.94

52 LF OF 8"PVC @ 0.98%

11.4%

CLEANOUT
RIM:29.39
INV IN: 26.45
INV OUT: 26.45

2 LF OF 6" PVC @ -28.02%

5 LF OF 6" PVC @ 10.39%

CLEANOUT
RIM:29.81
INV IN: 27.00
INV OUT: 26.32

17 LF OF 8" PVC @ -11.89%

35 LF OF 8" PVC @ -10.00%

CONNECT TO DOWNSPOUT
INV OUT: 27.00

9 LF OF 6" PVC @ 22.79%

CLEANOUT
RIM:29.06
INV IN: 25.70
INV IN: 25.70
INV OUT: 25.70

15 LF OF 8" PVC @ 1.60%

CONNECT TO DOWNSPOUT
INV OUT: 27.00

CONNECT TO DOWNSPOUT
INV IN: 27.00

16 LF OF 6" PVC @ 7.98%

22 LF OF 8" PVC @ 1.37%

CLEANOUT
RIM:29.82
INV IN: 24.95
INV IN: 24.95
INV OUT: 24.95

CONNECT TO DOWNSPOUT
INV OUT: 27.00

CONNECT TO DOWNSPOUT
INV OUT: 27.00

CLEANOUT
RIM:29.10
INV IN: 25.40
INV IN: 25.40
INV OUT: 25.40

12 LF OF 6" PVC @ 13.79%

49 LF OF 8" PVC @ 0.75%

CONNECT TO DOWNSPOUT
INV OUT: 27.00

4 LF OF 6" @ 78.06%

CLEANOUT
RIM:29.79
INV IN: 24.06
INV IN: 24.06
INV OUT: 24.06

CONNECT TO DOWNSPOUT
INV OUT: 27.00

4 LF OF 6" @ 87.98%

8 LF OF 6" PVC @ 26.14%

CLEANOUT
RIM:29.00
INV IN: 25.03
INV IN: 25.03
INV OUT: 25.03

CONNECT TO DOWNSPOUT
INV OUT: 27.00

12 LF OF 8" @ 0.88%

CLEANOUT
RIM:29.01
INV IN: 24.93
INV OUT: 24.93
INV OUT: 24.83

12 LF OF 6" @ 0.50%

CONNECT TO DOWNSPOUT
INV OUT: 27.00

21 LF OF 8" PVC @ 0.88%

16 LF OF 6" PVC @ 14.48%

CONNECT TO DOWNSPOUT
INV OUT: 27.00

CLEANOUT
RIM:29.05
INV IN: 24.74
INV IN: 24.74
INV OUT: 24.74

CONNECT TO DOWNSPOUT
INV OUT: 27.00

11 LF OF 6" PVC @ 25.71%

CONNECT TO DOWNSPOUT
INV OUT: 27.00

CONNECT TO DOWNSPOUT
INV OUT: 27.00

12 LF OF 8" PVC @ 1.68%

11 LF OF 6" PVC @ 34.18%

7 LF OF 6" PVC @ 45.09%

CLEANOUT
RIM:25.23
INV IN: 24.54
INV OUT: 24.54

39 LF OF 8" @ 0.99%

CLEANOUT
RIM:29.69
INV IN: 24.06
INV IN: 24.06
INV OUT: 24.06

CLEANOUT
RIM:29.42
INV IN: 23.67
INV IN: 23.67
INV OUT: 23.67

16 LF OF 8" PVC @ 1.05%

34 LF OF 8" PVC @ 0.87%

17 LF OF 8" PVC @ 1.09%

CLEANOUT
RIM:29.87
INV IN: 24.24
INV IN: 24.24
INV OUT: 24.24

Null Structure
RIM:26.45
INV IN: 23.50
INV IN: 23.50
INV OUT: 23.50

36 LF OF 8" PVC @ 0.99%

CLEANOUT
RIM:29.39
INV IN: 23.14
INV IN: 23.14
INV OUT: 23.14

116 LF OF 8" PVC @ -0.99%

CONNECT TO DOWNSPOUT
INV OUT: 27.00

20 LF OF 6" PVC @ 17.59%

CONNECT TO DOWNSPOUT
INV OUT: 27.00

CONNECT TO DOWNSPOUT
INV OUT: 27.00

14 LF OF 6" @ 24.70%

CONNECT TO DOWNSPOUT
INV OUT: 27.00

CLEANOUT
RIM:29.73
INV IN: 24.60
INV OUT: 24.60

23 LF OF 8" @ -1.12%

CLEANOUT
RIM:29.78
INV IN: 24.34
INV IN: 24.34
INV OUT: 24.34

15 LF OF 6" @ 18.28%

28 LF OF 6" @ -0.98%

26 LF OF 8" @ -1.05%

CLEANOUT
RIM:29.80
INV IN: 23.79
INV IN: 23.79
INV OUT: 23.79

28 LF OF 8" @ -0.95%

CLEANOUT
RIM:29.80
INV IN: 23.52
INV IN: 23.52
INV OUT: 23.52

39 LF OF 8" @ -0.97%

FFE = 30.0'

27.0'

28.0'

29.0'

30.0'

-4.4%

25.07

25.0'

26.0'

28.0'

27.0'

26.07

25.23

24.94

25.0'

29.48

29.48

29.48

29.48

28.55

29.69

28.0'

SHEET C7

LEGEND:

- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED STORM DRAIN
- X.XX — PROPOSED SPOT ELEVATION
- PROPOSED DIRECTION OF FLOW
- SCF — PROPOSED SEDIMENT CONTROL FENCE
- 26.0' — PROPOSED 1.0' INTERVAL CONTOUR

0 10 20 40 Feet

1"=10'

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CALL BEFORE YOU DIG!
SUNSHINE STATE ONE CALL
811

CALL 2 BUSINESS DAYS IN ADVANCE
BEFORE YOU BEGIN ANY
EXCAVATION FOR THE MARKING OF
UNDERGROUND MEMBER UTILITIES

NO.	DATE	REVISION	BY

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FILE: LIBRARY SP

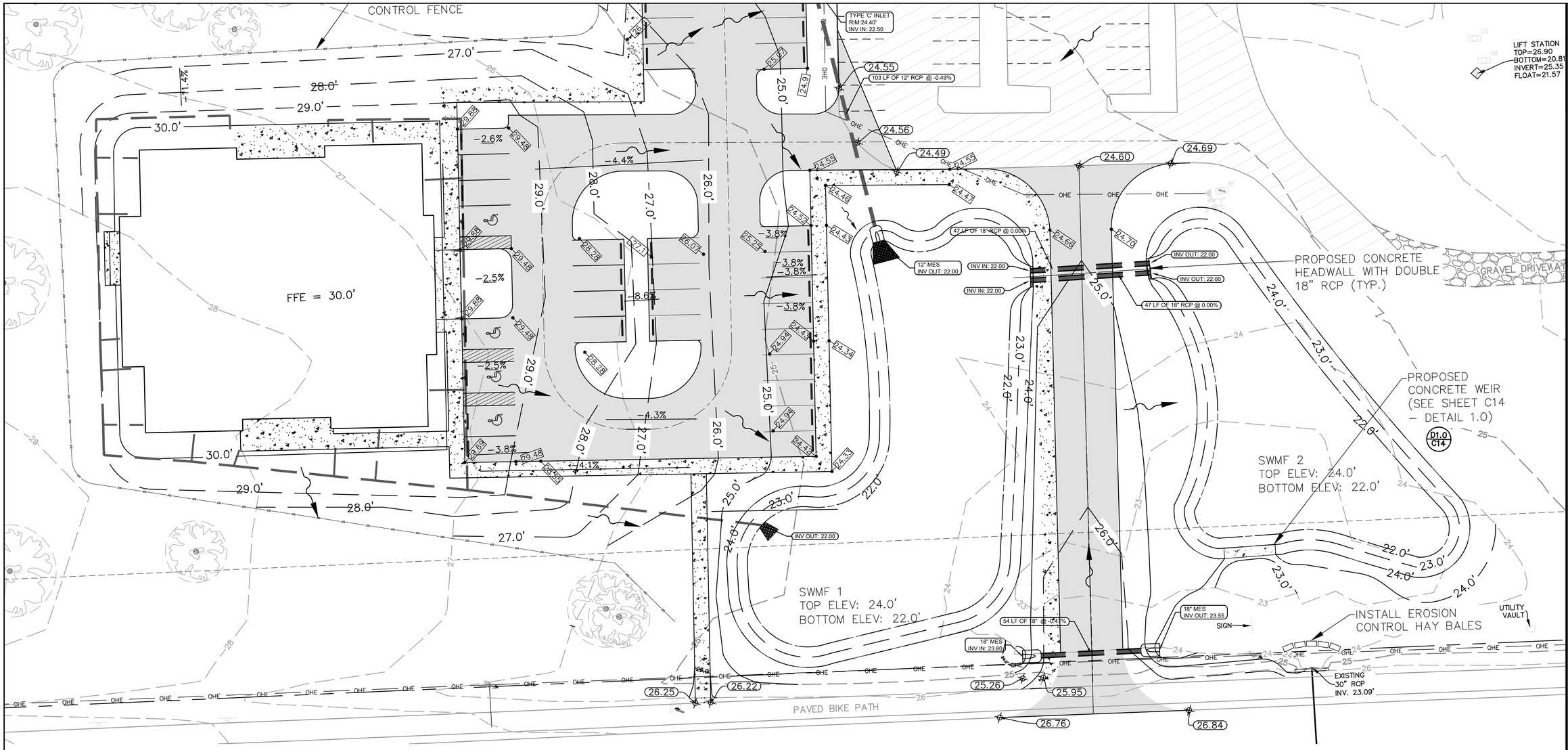
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CRAWFORDVILLE, FL 32327
PHONE (850) 926-2593
FAX (850) 926-9257
WWW.HYDRAEC.COM
FLORIDA CA#28124

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WAKULLA COUNTY LIBRARY
GRADING PLAN - BUILDING

PROJECT NO.
2024110

C6



EROSION CONTROL NOTES:

1. PROJECT INCLUDES CONSTRUCTION OF AN APPROXIMATELY 14,400 SF BUILDING, 26,031 SF OF ASPHALT VUA, 6,691 SF OF CONCRETE SIDEWALK, AND 19,978 SF OF ASSOCIATED STORM WATER MANAGEMENT FACILITY.

2. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND–DISTURBING ACTIVITIES.

3. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY.

4. NO STATE WATERS LOCATED WITHIN 200 FEET OF PROJECT SITE.

5. NO STREAMS ON SITE.

6. NO WETLANDS ON SITE

7. ADJACENT SITES ARE ZONED COMMERCIAL 2 and RESIDENTIAL 1.

8. STANDARD AND SPECIFICATIONS: THE DESIGN WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN FLORIDA".

9. ALL DISTURBED AREAS TO BE TEMPORARILY STABILIZED WITHIN 14 DAYS OF DISTURBANCE.

10. EROSION CONTROL MEASURES SHALL BE INSPECTED WITHIN 24 HOURS OF ANY RAINFALL EVENT OF 0.50" OR GREATER.

11. ANY EXCAVATED MATERIAL BOTH PERMANENT AND TEMPORARY, SHALL USE THE DESIGNATED STOCKPILE AREA. ALTERNATIVELY, THE CONTRACTOR MAY LOAD EXCAVATED MATERIAL FROM THE SITE DIRECTLY INTO TRUCKS PRIOR TO BEING HAULED OFFSITE.

LEGEND:

- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED STORM DRAIN
- X.XX — PROPOSED SPOT ELEVATION
- PROPOSED DIRECTION OF FLOW
- SCF — PROPOSED SEDIMENT CONTROL FENCE
- 26.0' — PROPOSED 1.0' INTERVAL CONTOUR

0 20 40 80 Feet

1"=20'

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CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG! SUNSHINE STATE ONE CALL 811
EXCAVATOR TO VERIFY THE MARKING OF UNDERGROUND MEMBER UTILITIES

NO.	DATE	REVISION	BY

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DATE: 7/21/2025
FILE:

HYDRA ENGINEERING & CONSTRUCTION, LLC
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FAX (850) 926-9257
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FLORIDA CA#28124

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WAKULLA COUNTY LIBRARY
GRADING PLAN - SOUTH

PROJECT NO.
2024110

C7

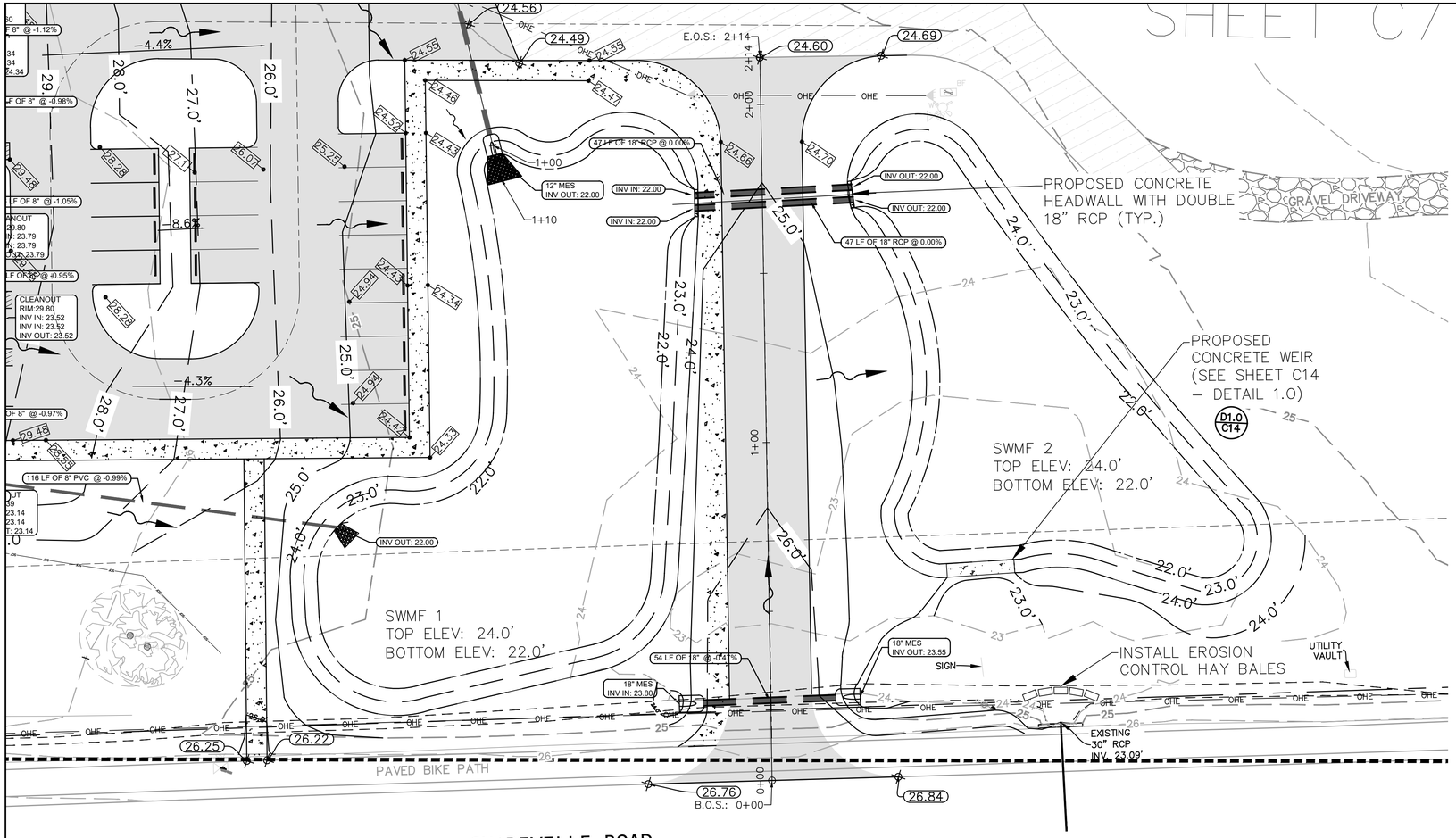
LEGEND:

- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED STORM DRAIN
- X.XX — PROPOSED SPOT ELEVATION
- PROPOSED DIRECTION OF FLOW
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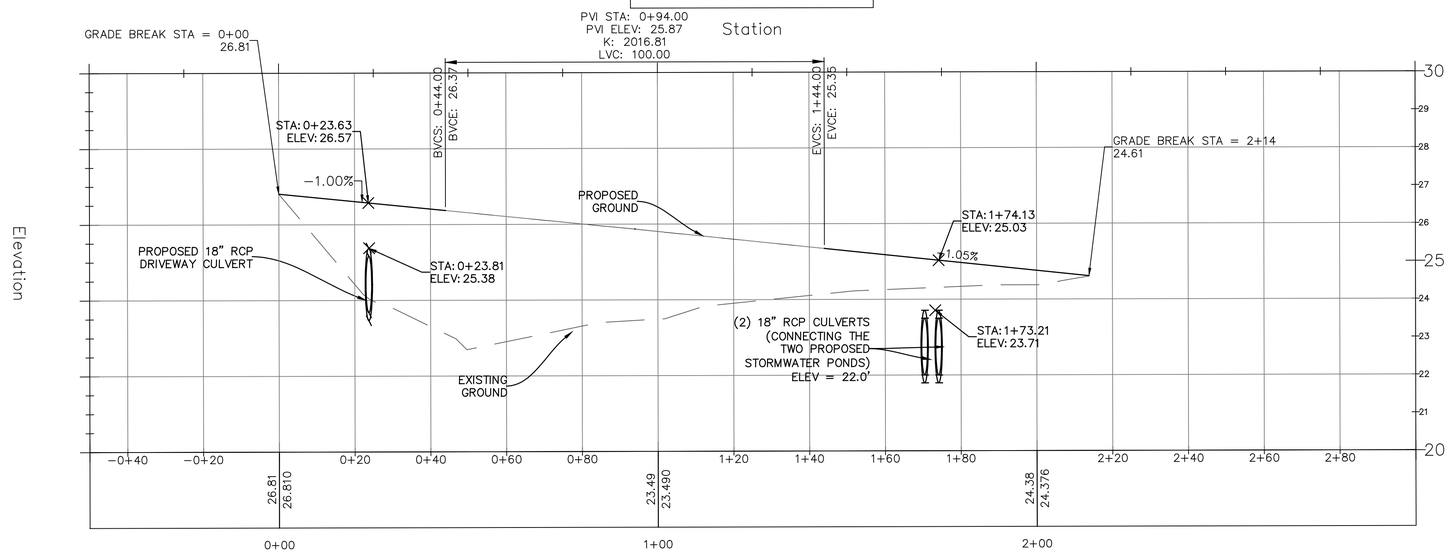
0 20 20 80 Feet

1"=20'

CONCRETE
PAVEMENT
PARKING BUMPS
GRAVEL DRIVEWAY
EXISTING BUILDING
UTILITY VAULT
CONCRETE
EXISTING BUILDING
INSTALL ±820 L.F. OF SEDIMENT CONTROL FENCE
TYPE 'C' INLET RIM:24.40' INV IN: 22.50
0+00
103 LF OF 12" RCP @ -0.49%
OHE
H.C.
24.56
24.60
25.20
24.82
25.02
24.63
24.81
24.98
24.56
24.40
25.47
24.91
24.55
24.56
24.49
24.55
24.53
24.60
24.69
24.47
25.56
25.54
25.58
25.59
25.58
25.59
25.58
25.59



Library PROFILE



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CALL BEFORE YOU DIG!
SUNSHINE STATE ONE CALL
811
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

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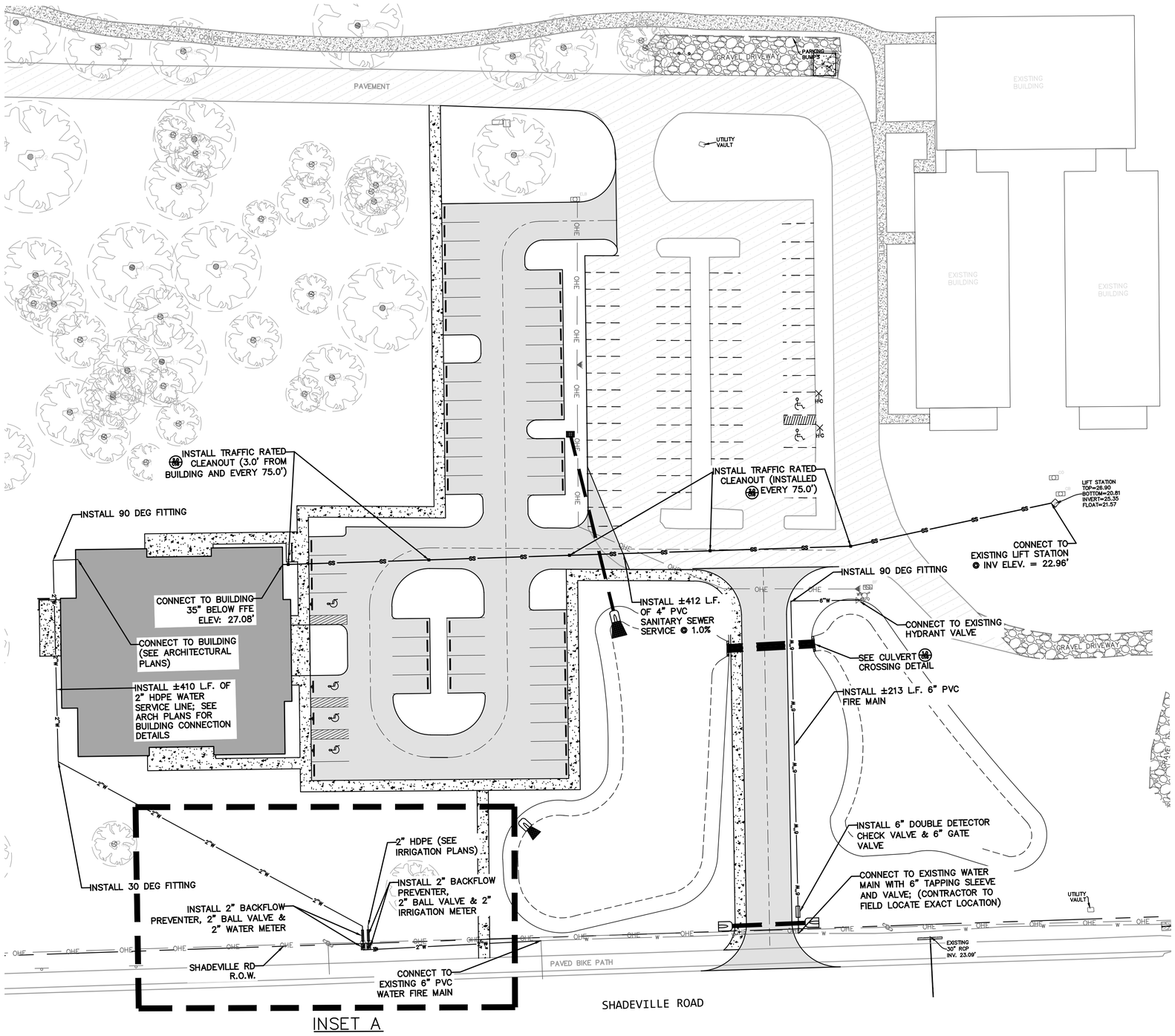
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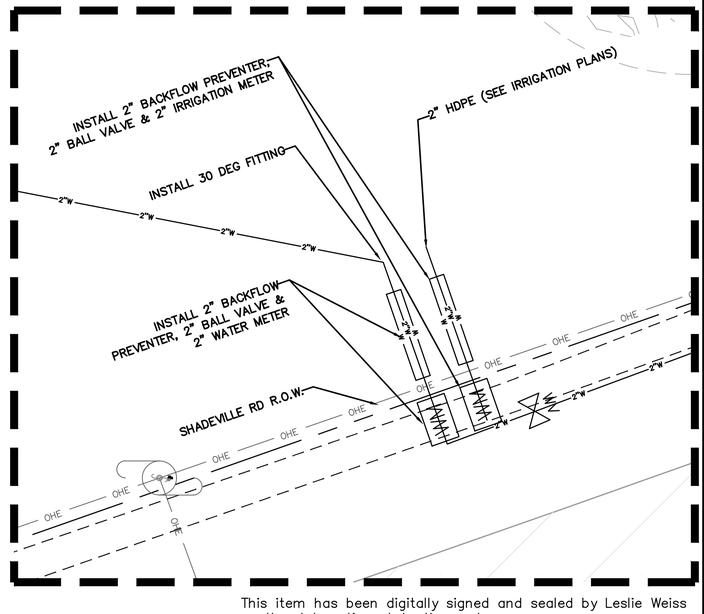
WAKULLA COUNTY LIBRARY DRIVEWAY PLAN & PROFILE

PROJECT NO.
2024110

C9



INSET A



INSET A
1"=5'

LEGEND:

- EXISTING PAVEMENT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING 1.0' INTERVAL CONTOUR
- OHE — EXISTING ELECTRICAL LINE
- W — EXISTING WATER LINE
- PROPERTY BOUNDARY
- EXISTING TREE
- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED LANDSCAPE ISLAND
- DIRECTION OF TRAFFIC FLOW (NOT TO BE PAINTED)
- PROPOSED SWMF TOP
- PROPOSED SWMF BOTTOM
- W — PROPOSED WATER MAIN
- SS — PROPOSED 8" SANITARY SEWER SERVICE LINE

0 30 60 120 Feet
1"=30'

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SUNSHINE STATE ONE CALL
811

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WAKULLA COUNTY LIBRARY
UTILITY PLAN

PROJECT NO.
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C10

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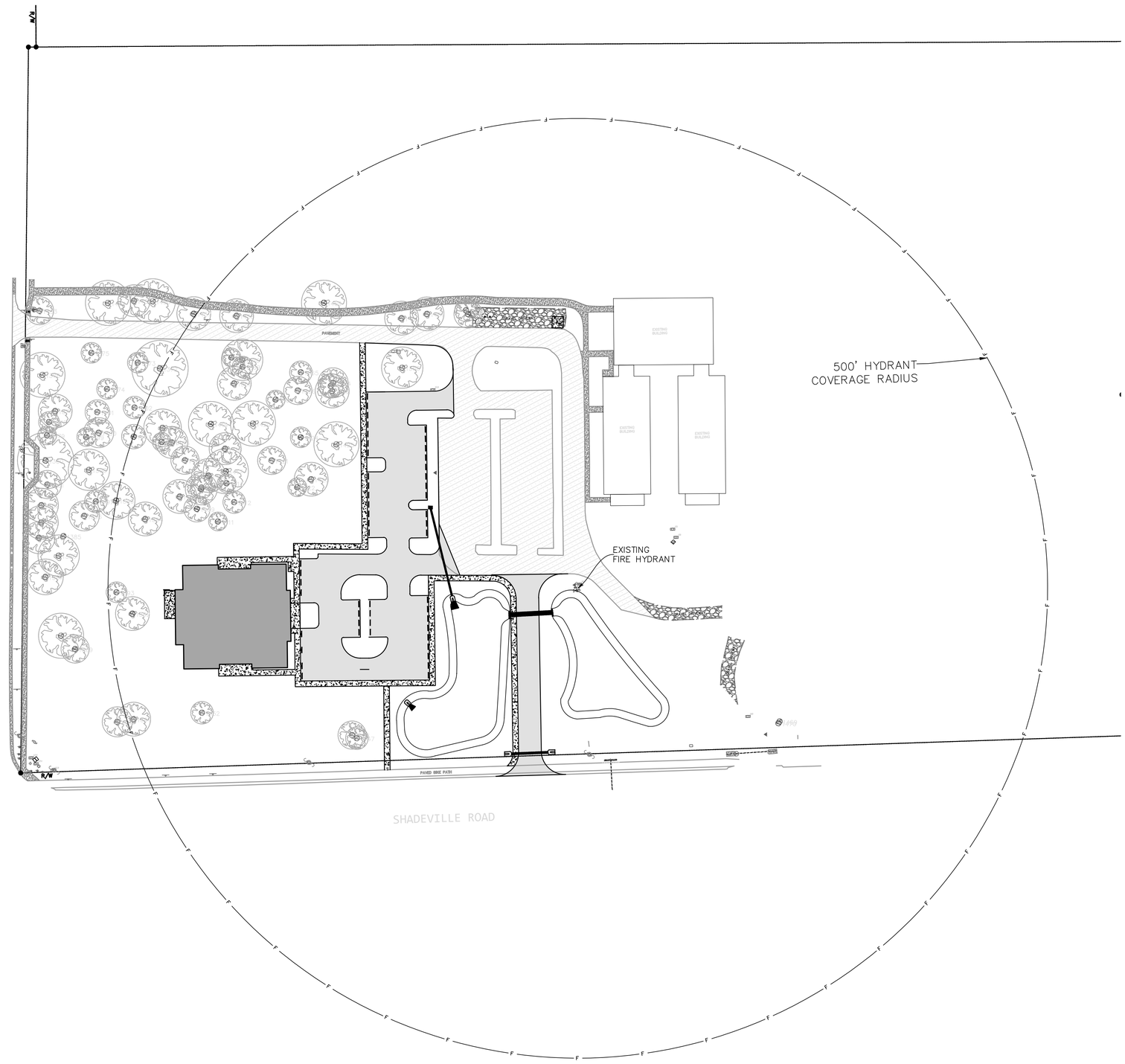
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LEGEND:

- EXISTING PAVEMENT
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING 1.0' INTERVAL CONTOUR
- OHE — EXISTING ELECTRICAL LINE
- W — EXISTING WATER LINE
- PROPERTY BOUNDARY
- EXISTING TREE
- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED LANDSCAPE ISLAND
- DIRECTION OF TRAFFIC FLOW (NOT TO BE PAINTED)
- PROPOSED SWMF TOP
- PROPOSED SWMF BOTTOM
- 500' FIRE COVERAGE RADIUS
- EXISTING HYDRANT

0 60 120 240 Feet

1"=60'



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811

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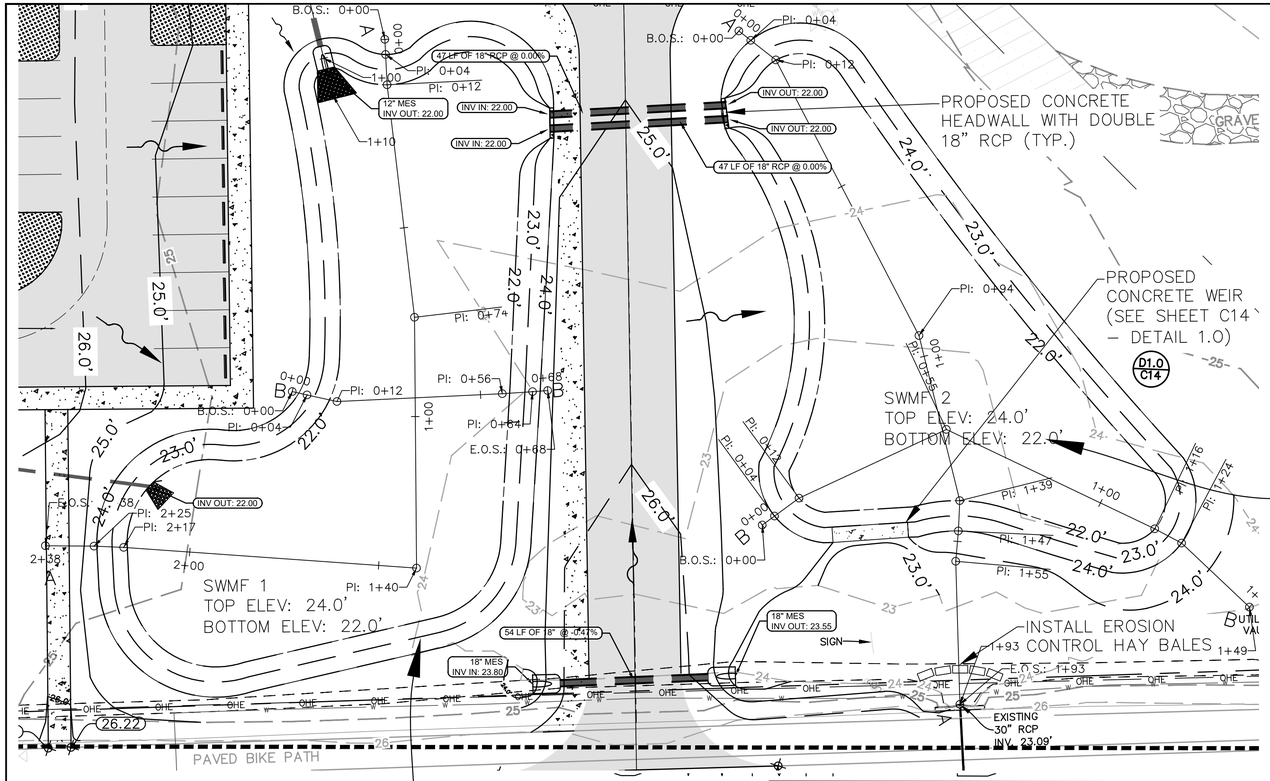
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FIRE COVERAGE PLAN

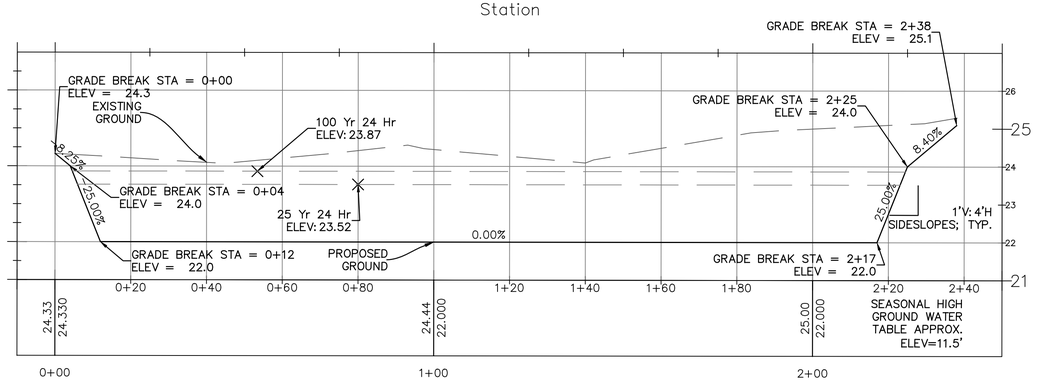
PROJECT NO.
2024110

C11



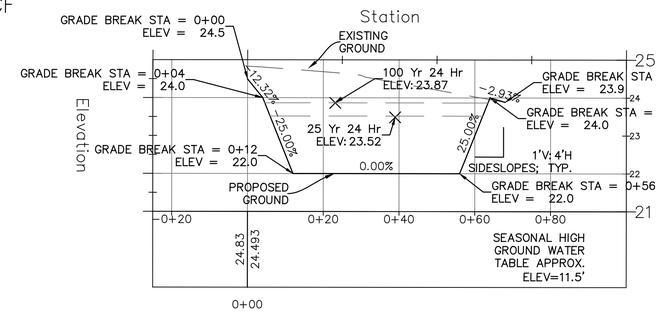
PROPOSED SWMF 1
4'H:1'V SIDE SLOPES
TOTAL VOLUME: 27,932 CF
TOTAL AREA: 16,178 SF
TOP OF POND: 24.0'
BOTTOM OF POND: 22.0'
TOTAL SITE TREATMENT
REQUIRED: 12,816 CF
SHWT: APPROX. 11.5'

Library SWMF 1–A PROFILE

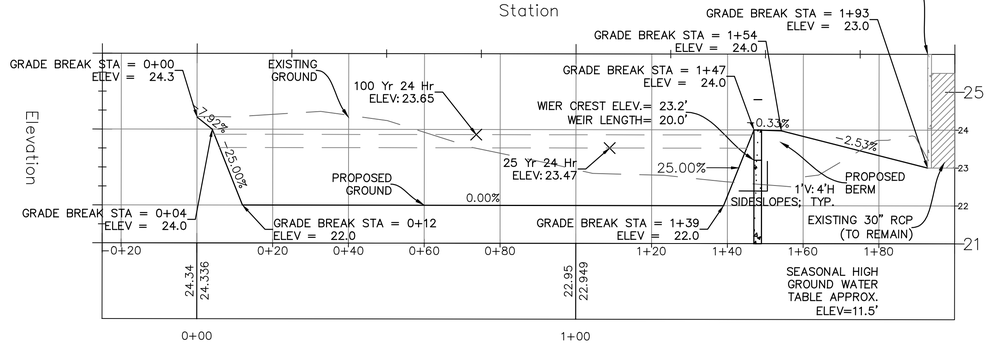


PROPOSED SWMF 2
4'H:1'V SIDE SLOPES
TOTAL VOLUME: 14,087 CF
TOTAL AREA: 8,738 SF
TOP OF POND: 24.0'
BOTTOM OF POND: 22.0'
TOTAL SITE TREATMENT
REQUIRED: 12,816 CF
SHWT: APPROX. 11.5'

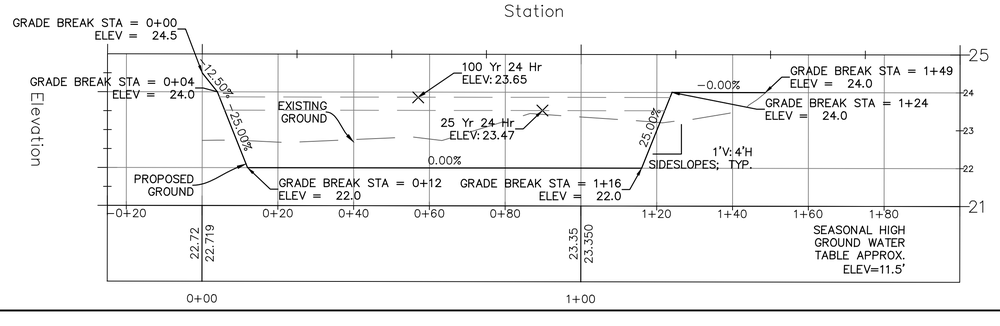
Library SWMF 1–B PROFILE

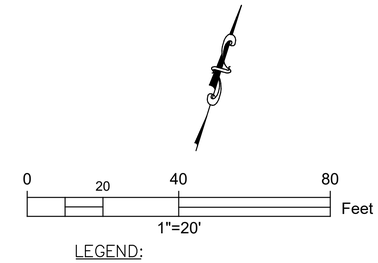


Library SWMF 2–A PROFILE



Library SWMF 2–B PROFILE





LEGEND:

- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED D50=8" RIP RAP
- PROPOSED STORM DRAIN
- X.XX PROPOSED SPOT ELEVATION
- PROPOSED DIRECTION OF FLOW
- SCF PROPOSED SEDIMENT CONTROL FENCE

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CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG - EXCAVATOR TO VERIFY THE MARKING OF UNDERGROUND MEMBER UTILITIES

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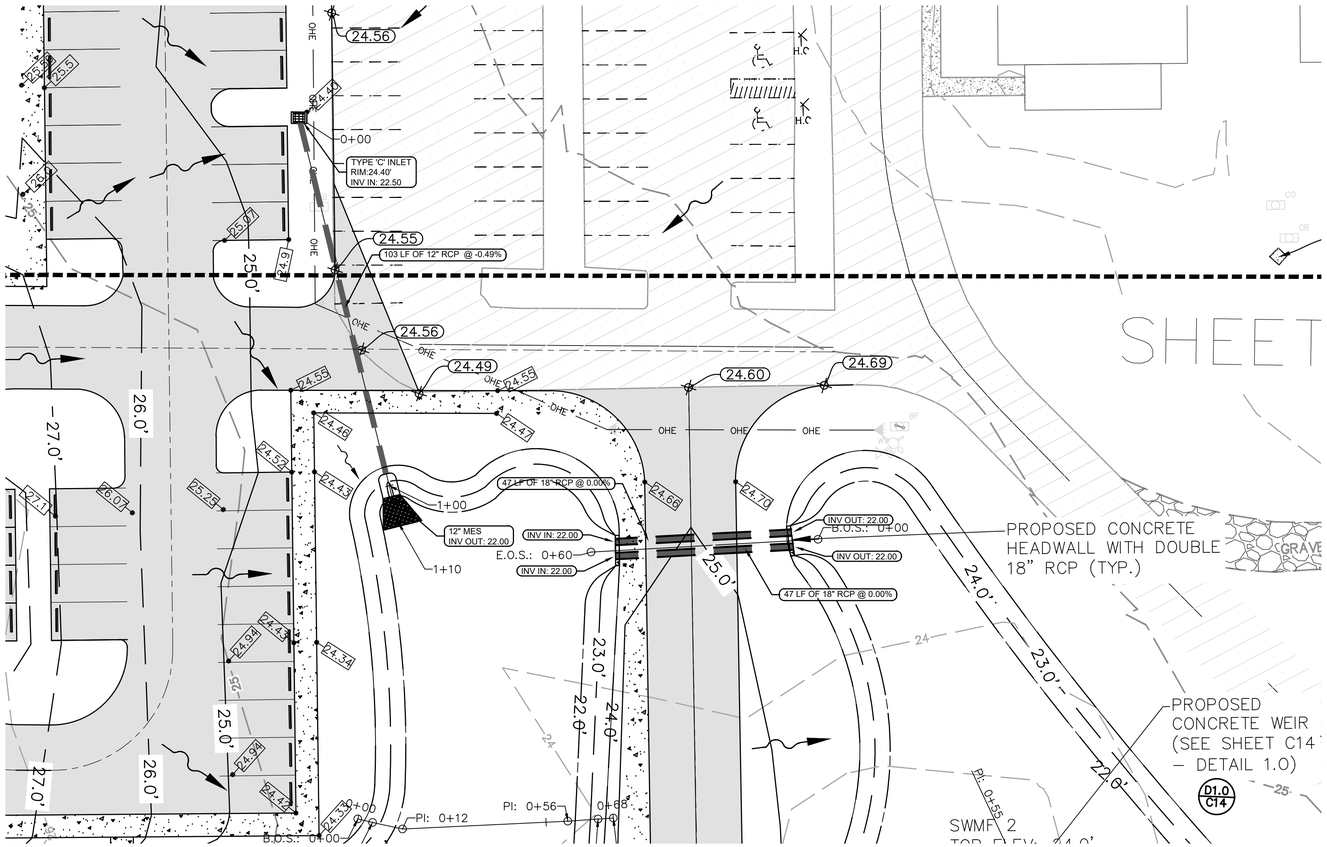
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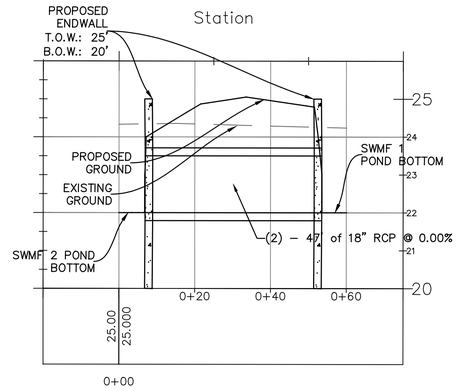
WAKULLA COUNTY LIBRARY
SWMF PLAN & PROFILE

PROJECT NO.
2024110

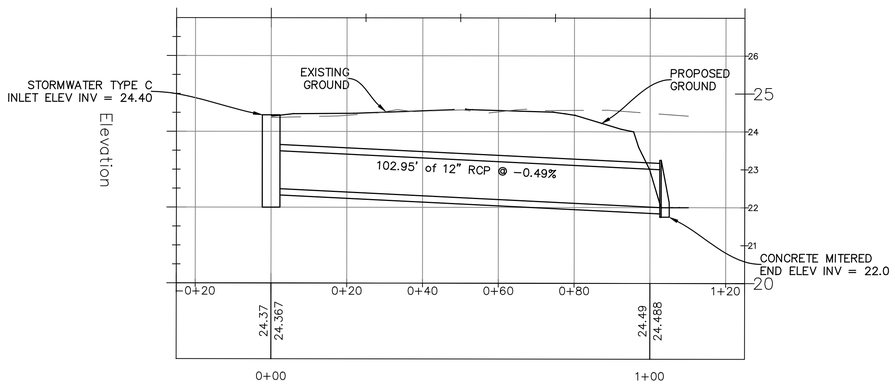
C12

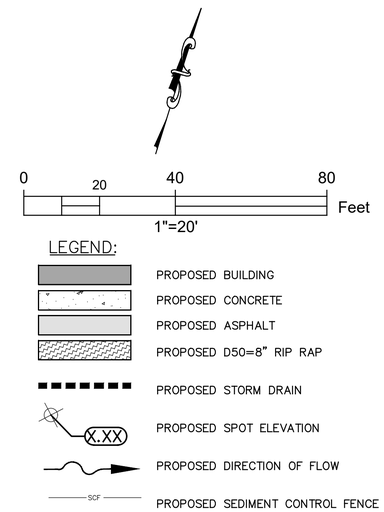


Library SW Pipe2 PROFILE



North Drainage PROFILE





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811

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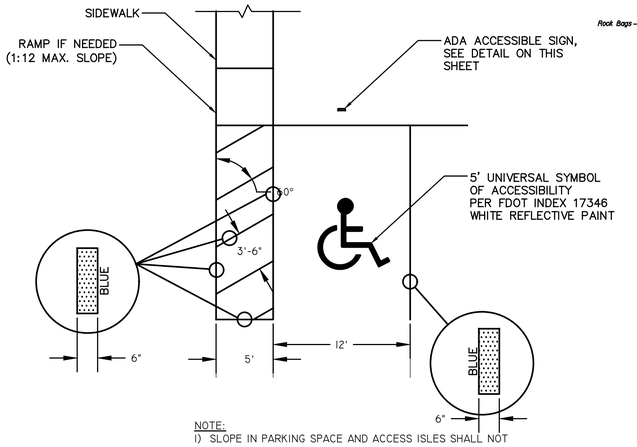
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SW PIPES PLAN & PROFILE

PROJECT NO.
2024110

C13

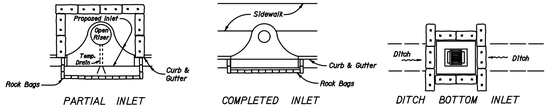


NOTE:
1) SLOPE IN PARKING SPACE AND ACCESS ISLES SHALL NOT EXCEED 2% SLOPE.

2) SPACE SHALL COMPLY WITH ADA SPECIFICATIONS & REQUIREMENTS.

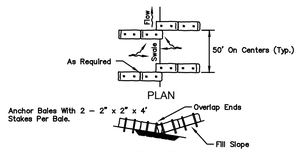
2.0 / C14 ADA ACCESSIBLE PARKING DETAIL

NOT TO SCALE

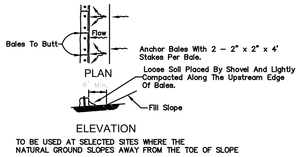


PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

N.T.S.



TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES TOWARD THE TOE OF SLOPE

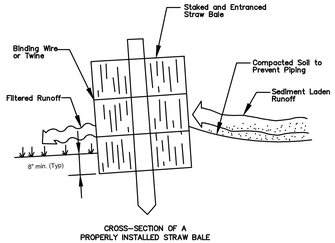


TO BE USED AT SELECTED SITES WHERE THE NATURAL GROUND SLOPES AWAY FROM THE TOE OF SLOPE

BARRIERS FOR FILL SLOPES

SYNTHETIC HAY BALE PLACEMENT

N.T.S.

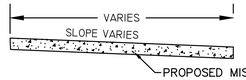


CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

STAKED SYNTHETIC HAY BALE

(D-911)

N.T.S.



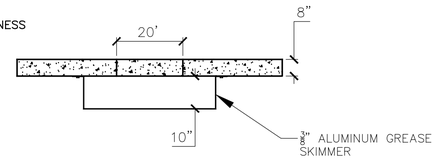
SURFACE COURSE – CONCRETE– 4" THICKNESS
SUBGRADE – LBR 40 FOR 12" MIN. DEPTH

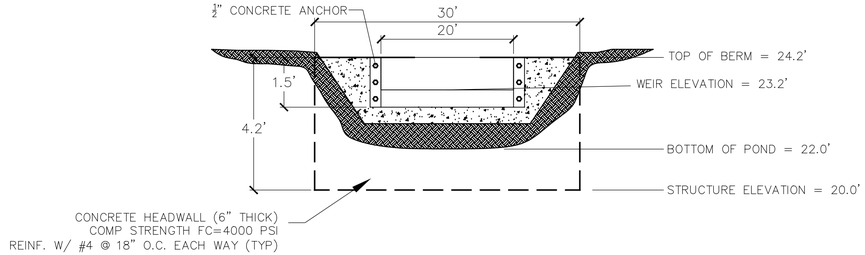
4.0 / C14 CONCRETE SIDEWALK TYPICAL SECTION

N.T.S.

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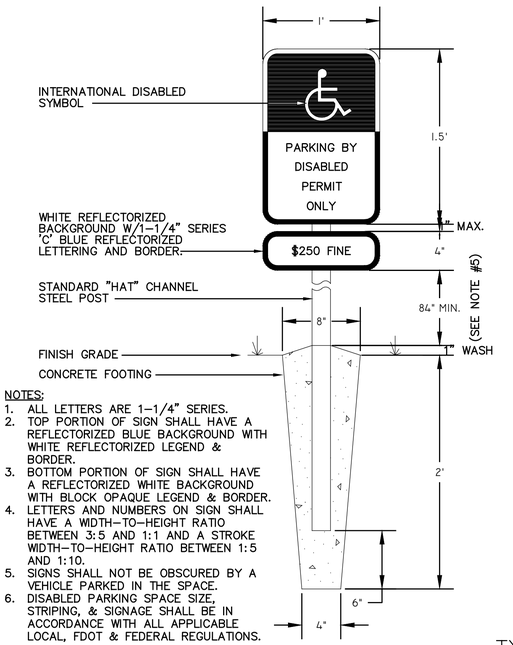
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1.0 / C14 CONCRETE WEIR DETAIL W/ GREASE SKIMMER

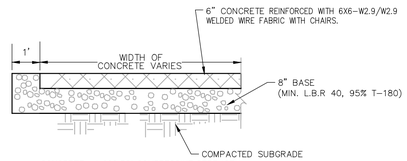
N.T.S.



NOTES:
1. ALL LETTERS ARE 1-1/4" SERIES.
2. TOP PORTION OF SIGN SHALL HAVE A REFLECTORIZED BLUE BACKGROUND WITH WHITE REFLECTORIZED LEGEND & BORDER.
3. BOTTOM PORTION OF SIGN SHALL HAVE A REFLECTORIZED WHITE BACKGROUND WITH BLOCK OPAQUE LEGEND & BORDER.
4. LETTERS AND NUMBERS ON SIGN SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
5. SIGNS SHALL NOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE.
6. DISABLED PARKING SPACE SIZE, STRIPING, & SIGNAGE SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, FDOT & FEDERAL REGULATIONS.

2.0 / C14 ADA ACCESSIBLE SIGN DETAIL

NOT TO SCALE

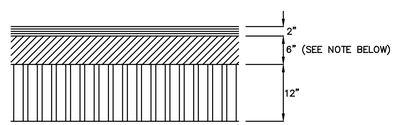


CONCRETE - 4,000 PSI COMPRESSIVE STRENGTH
WITH WELDED WIRE MESH
BASE COURSE - 8" LIMEROCK BASE (LBR 40)
COMPACTED TO 98% STANDARD PROCTOR DENSITY.;
NO GRANITE TO BE USED

STABILIZED SUBGRADE - LBR 100 FOR 12" MIN. DEPTH

3.1 / C14 TYPICAL DUMPSTER CONCRETE SECTION

N.T.S.



SURFACE COURSE – 2.0" ASPHALT STRUCTURAL COURSE SP-12.5 OR ASPHALT FRICTION COURSE SP-9.5 (2" MIN. COMPACTED THICKNESS FOR STANDARD AREAS)
ADDITIONAL 0.5" MIN IS RECOMMENDED FOR HEAVY DUTY AREAS

BASE COURSE – LIMEROCK (6" COMPACTED THICKNESS FOR STANDARD AREAS AND 2" ADDITIONAL INCHES OF THICKNESS FOR HEAVY DUTY AREAS) COMPACTED TO 98% MODIFIED PROCTOR MAXIMUM DRY DENSITY

SUBGRADE – LBR 40 FOR 12" MIN. DEPTH AND BE COMPACTED TO 98% OF THE MODIFIED PROCTOR

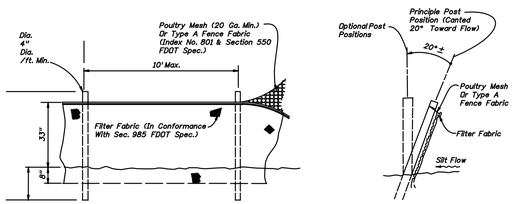
ANTICIPATE THAT THE ASPHALT WILL BE PLACED IN MULTIPLE LIFTS. IF CONSTRUCTION TRAFFIC IS ALLOWED ON THE ASPHALT AFTER THE FIRST LIFT, WE CAUTION THAT LOCALIZED AREAS MAY FAIL AND REQUIRE RECONSTRUCTION PRIOR TO PLACING THE FINAL LIFT OF ASPHALT. PAVEMENT MAINTENANCE AND REHABILITATION, INCLUDING AN OVERLAY, MAY BE REQUIRED WITHIN THE LIFE OF THE PAVEMENT.

*CONTRACTOR SHALL REVIEW AND APPLY RECOMMENDATIONS OF THE PROVIDED GEOTECHNICAL REPORT PERFORMED BY SOUTHERN EARTH SCIENCES DATED JUNE 6, 2025.

TYPICAL PAVEMENT SECTION

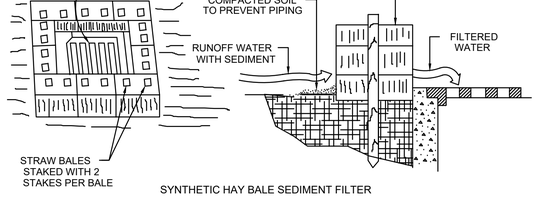
3.0 / C14 ON-SITE

N.T.S.



TYPE IV SILT FENCE DETAIL

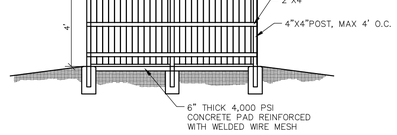
SILT FENCE EROSION CONTROL APPLICATIONS



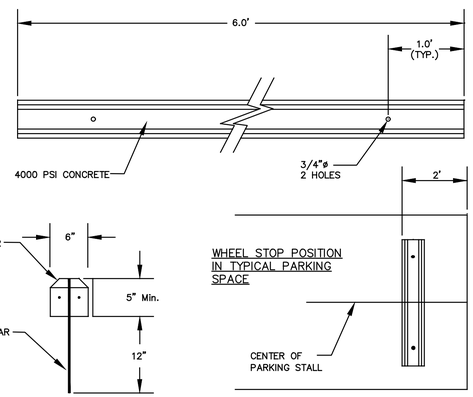
SYNTHETIC HAY BALE SEDIMENT FILTER

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL.



3.2 / C14 WOODEN FENCE DETAIL



2.0 / C14 CONCRETE WHEEL STOP DETAIL

N.T.S.

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SUNSHINE STATE ONE CALL
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CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

NO.	DATE	REVISION	BY

DRAWN BY: DMJ
CHECKED BY: LAW
DATE: 7/21/2025
FILE:

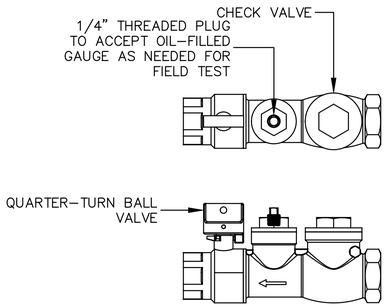
HYDRA ENGINEERING & CONSTRUCTION, LLC
36 JASPER THOMAS ROAD
CRAWFORDVILLE, FL 32327
PHONE (850) 926-2593
FAX (850) 926-9257
WWW.HYDRAEC.COM
FLORIDA CA#28124

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WAKULLA LIBRARY CONSTRUCTION DETAILS 1

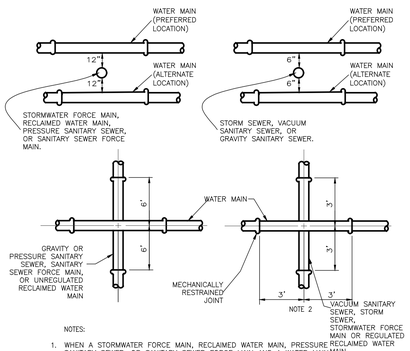
PROJECT NO.
2024110

C14



CURB STOP/ CHECK VALVE ASSEMBLY

N.T.S.

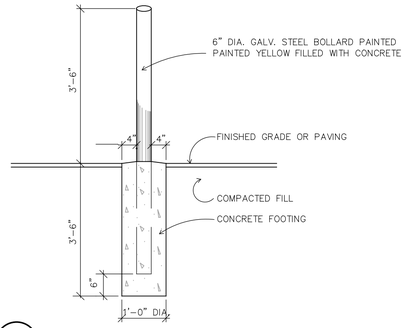


NOTES:

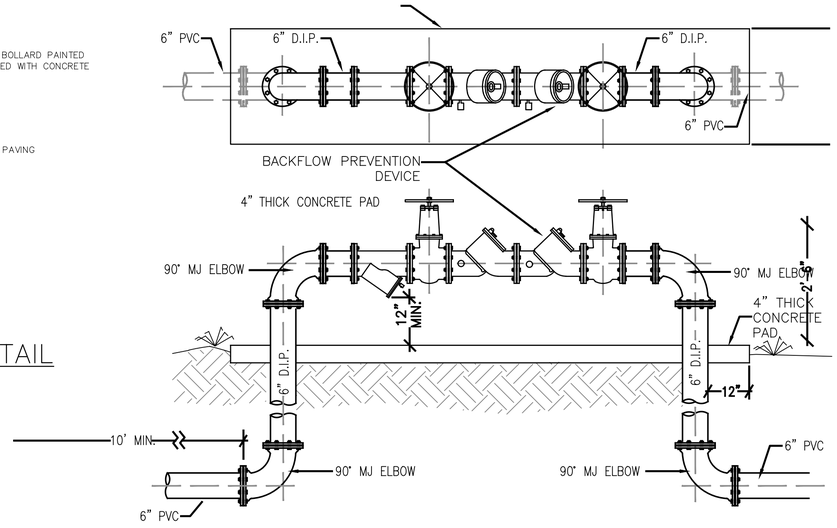
1. WHEN A STORMWATER FORCE MAIN, RECLAIMED WATER MAIN, PRESSURE SANITARY SEWER, OR SANITARY SEWER FORCE MAIN AND A WATER MAIN CROSS, THE WATER MAIN SHOULD BE A MINIMUM OF 12" ABOVE OR BELOW THE SEWER.
2. FOR ALL PIPES CROSSING, THE PIPE JOINTS SHALL BE ARRANGED SO THAT ALL VACUUM SEWER, STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER MAIN JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING WITH NO LESS THAN 3' BETWEEN ANY TWO JOINTS.
3. FOR ALL PIPES CROSSING, THE PIPE JOINTS SHALL BE ARRANGED SO THAT ALL GRAVITY OR PRESSURE SANITARY SEWERS, SANITARY SEWER FORCE MAINS AND UNREGULATED RECLAIMED WATER MAIN JOINTS ARE EQUIDISTANT FROM THE JOINT OF CROSSING WITH NO LESS THAN 6' BETWEEN THE WATER MAIN AND THE PIPE JOINTS.
4. IF THE HORIZONTAL OR VERTICAL CLEARANCE LISTED HEREIN CANNOT BE ACHIEVED THE WATER MAIN CAN BE ENCASED IN 4" OF CONCRETE.

WATER/SEWER VERTICAL SEPARATION DETAIL

N.T.S.



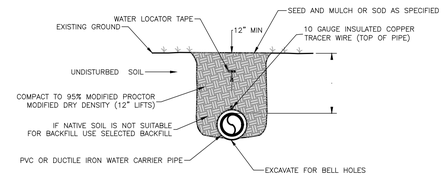
D3.4 / C15 TYP. BOLLARD DETAIL



NOTE: INSULATE ALL ABOVE GROUND PIPING AND FITTINGS WITH ARMA FLEX INSULATION WITH WHITE RUBBERIZED PAINT (2 COATS) OR APPROVED EQUAL.

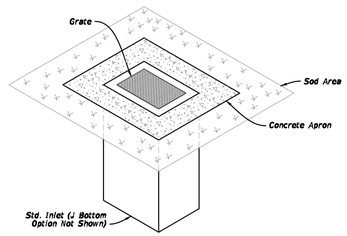
BACKFLOW PREVENTER DETAIL

SCALE: NO SCALE



WATER MAIN BEDDING DETAIL

N.T.S.



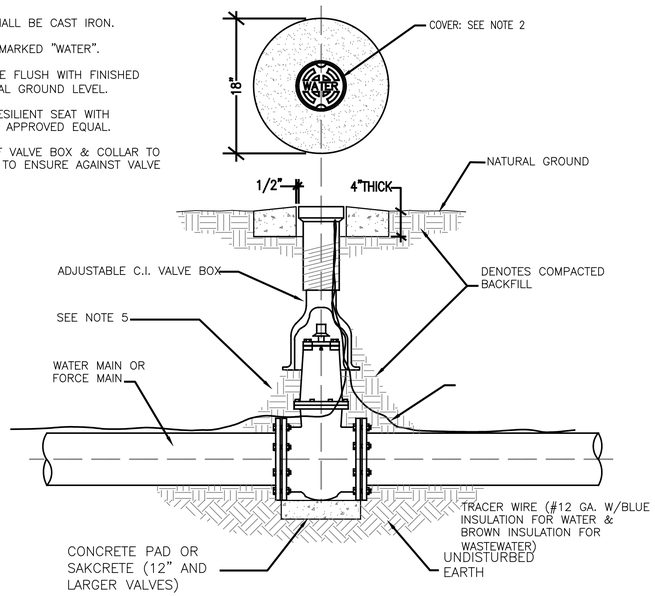
DITCH BOTTOM INLET TYPE C TRAVERSABLE
(Without Slot - Type D, E, and H Similar, Pipe Connection Not Shown)

DITCH BOTTOM INLET TYPE C TRAVERSABLE

SCALE: NO SCALE

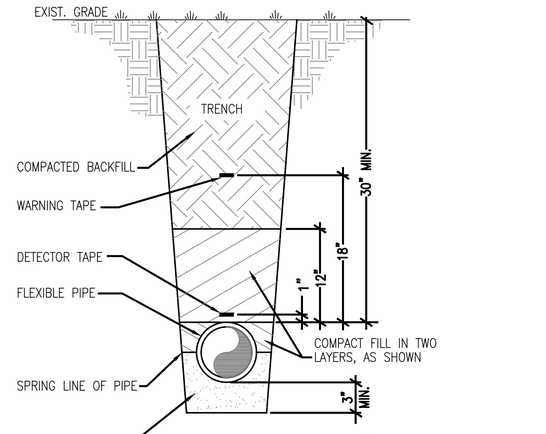
NOTES:

1. VALVE BOX AND BOOT SHALL BE CAST IRON.
2. VALVE COVER SHALL BE MARKED "WATER".
3. VALVE BOX TOP SHALL BE FLUSH WITH FINISHED GRADE OR ½" ABOVE NATURAL GROUND LEVEL.
4. GATE VALVE SHALL BE RESILIENT SEAT WITH MECHANICAL JOINT ENDS OR APPROVED EQUAL.
5. EARTH UNDER FLANGE OF VALVE BOX & COLLAR TO BE FIRM AND WELL TAMPED TO ENSURE AGAINST VALVE BOX SETTLING.



TYP. VALVE & BOX INSTALLATION

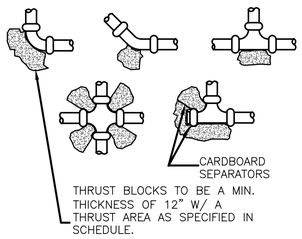
SCALE: NO SCALE



COMPACT GRANULAR MATERIAL (EXIST. MATERIAL MAY BE USED IF IT IS A SANDY GRANULAR MATERIAL. IF EXIST. MATERIAL IS UNSUITABLE, SUCH AS MUCK OR SILT, A SANDY, GRANULAR MATERIAL MUST BE PROVIDED FOR BACKFILL).

TYP. PIPE BEDDING DETAIL

SCALE: NO SCALE



DIA.	TEE	BEND	BEND	BEND
2"	1.0	1.0	1.0	1.0
3"	1.1	1.5	1.0	1.0
4"	1.9	2.7	1.4	1.0
6"	4.2	6.0	3.3	1.7
8"	7.5	10.7	5.8	2.9
10"	11.8	16.7	9.0	4.6
12"	17.0	24.0	13.0	6.6

AREAS LISTED IN SQUARE FEET

TYPE OF SOIL: SANDY SILT
BEARING CAPACITY: 1,500 PSF
PIPE PRESSURE: 150 PSI
FACTOR OF SAFETY: 1.5

THRUST BLOCK SUPPORT DETAIL

SCALE: NO SCALE

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CHECKED BY: LAW
DATE: 7/21/2025
FILE:

HYDRA ENGINEERING & CONSTRUCTION, LLC
36 JASPER THOMAS ROAD
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PROJECT NO.
2024110

C15

L=MINIMUM LENGTH TO BE RESTRAINED ON EACH SIDE OF FITTING (FEET)

NOMINAL PIPE SIZE (INCHES)	11 1/4° HORIZONTAL ELBOW	22 1/2° HORIZONTAL ELBOW	45° HORIZONTAL ELBOW	90° HORIZONTAL ELBOW	HORIZONTAL TEES	HORIZONTAL PLUGS & VALVES (SEE NOTE 3)	45° VERTICAL OFFSET UPPER LENGTH / 45° VERTICAL OFFSET LOWER LENGTH	22 1/2° VERT. OFFSET UPPER LENGTH / 22 1/2° VERT. OFFSET LOWER LENGTH	REDUCER TO 1 SIZE SMALLER LENGTH ON LARGER SIZE SIDE
4	2	4	7	18	20 – RUN 1 – BRANCH 39	16 / 3	8 / 1	N/A	
6	2	5	10	25	20 – RUN 1 – BRANCH 55	23 / 4	11 / 2	28	
8	3	6	13	32	20 – RUN 1 – BRANCH 72	30 / 5	14 / 3	30	
10	4	8	16	38	20 – RUN 1 – BRANCH 86	36 / 6	17 / 3	29	
12	4	9	19	45	20 – RUN 1 – BRANCH 102	42 / 8	20 / 4	50	
14	5	10	21	51	20 – RUN 10 – BRANCH 116	48 / 9	23 / 4	30	
16	6	11	23	57	20 – RUN 26 – BRANCH 131	54 / 10	26 / 5	30	
18	6	12	26	62	20 – RUN 41 – BRANCH 145	60 / 11	29 / 5	29	
20	7	13	28	68	20 – RUN 55 – BRANCH 158	66 / 12	36 / 6	29	
24	8	16	32	78	20 – RUN 58 – BRANCH 185	77 / 11	37 / 7	55	
30	9	18	38	92	20 – RUN 77 – BRANCH 221	92 / 17	44 / 8	77	
36	10	21	44	105	20 – RUN 115 – BRANCH 256	106 / 20	51 / 10	77	

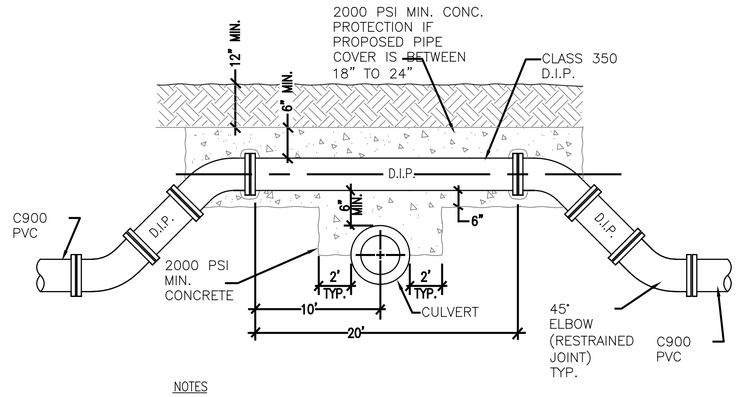
NOTES

1. TABLE ASSUMPTIONS: PVC PIPE, SAFETY FACTOR = 1.5, TEST PRESSURE = 150PSI SOIL = GM OR SM, 3 FT. BURY DEPTH TO TOP OF PIPE, TRENCH TYPE 3, BRANCH ON TEE IS ONE SIZE SMALLER THAN RUN OF TEE SIZE AND 20 FEET OF PIPE IS INSTALLED PAST THE TEE ON THE RUN SIDE (SMALLER BRANCH SIZES MUST BE CALCULATED BY THE ENGINEER). VERTICAL OFFSETS ARE 3 FEET DEEP ON TOP AND 8 FEET DEEP ON BOTTOM. REDUCERS ARE CALCULATED FOR ONE SIZE REDUCTION. OTHER CONDITIONS WILL REQUIRE ADDITIONAL CALCULATIONS.

2. ALL FITTINGS MUST BE RESTRAINED. ONE OF THE FOLLOWING METHODS MAY BE USED:
A. MECHANICAL RESTRAINTS AT FITTING AND AT ADJACENT JOINTS TO A LENGTH AS SPECIFIED IN CHART.
B. TIE RODS AT FITTING AND THROUGH JOINTS TO A LENGTH AS SPECIFIED IN CHART.

3. NOT APPLICABLE TO IN LINE VALVES UNDER 12 INCHES IN DIAMETER.

B1 MECHANICAL RESTRAINT LENGTH TABLE



NOTES

1. FOR COVER LESS THAN 30", USE D.I.P. CLASS 350. IF COVER IS LESS THAN 18", USE CLASS 350 D.I.P. W/FULL CONCRETE PROTECTION.

2. USE CLASS 350 D.I.P. WHENEVER COVER IS LESS THAN 30" AND/OR CROSSING CULVERT. EXTEND D.I.P. 10' MINIMUM EITHER SIDE OF CULVERT.

3. COST OF CROSSING, INCLUDING D.I.P., CONCRETE, ETC., TO BE INCLUDED IN COST PER LF FOR WATERLINE IN BID SCHEDULE. NO SEPARATE PAYMENT ALLOWED.

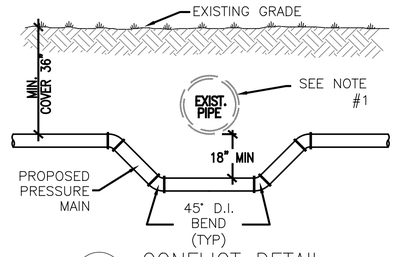
1.0 / C16 CULVERT CROSSING DETAIL

SCALE: NO SCALE

NOTES:

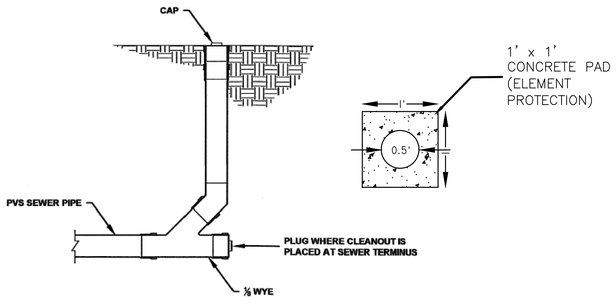
1. IF EXISTING PIPE IS WATER OR SEWER MAIN, REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. ALL FITTINGS ARE TO BE C.I. RETAINING JOINT TYPE.



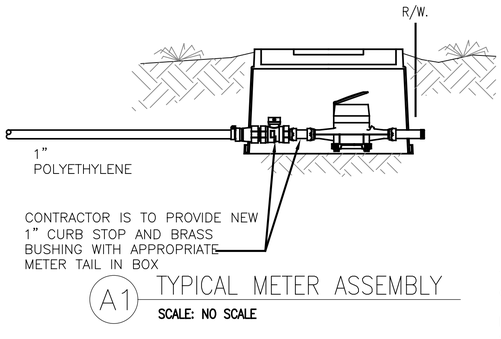
C4 CONFLICT DETAIL

SCALE: NO SCALE



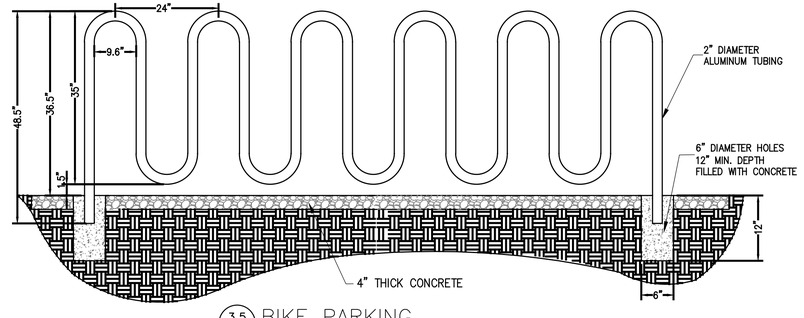
2.0 / C16 **CLEANOUT DETAIL**

SCALE: 1" = 1'



A1 TYPICAL METER ASSEMBLY

SCALE: NO SCALE



3.5 / C16 BIKE PARKING

NTS

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PROJECT NO.
2024110

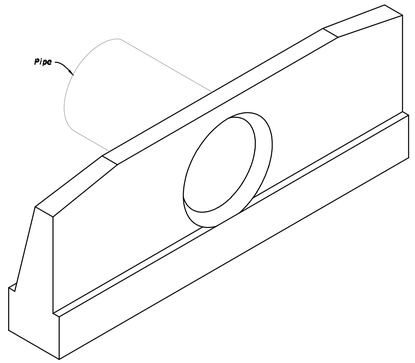
C16

GENERAL NOTES:

1. Use Class II concrete.
2. Reinforcing steel is either Grade 40 or 60.
3. Endwalls may be cast in place or precast concrete. (Additional reinforcement necessary for handling precast units will be determined by the Contractor or the supplier).
4. Chamfer all exposed edges and corners to ¾".
5. Endwall dimensions, locations and positions are for round and elliptical concrete pipe and for round and pipe-arch corrugated metal pipe. Round concrete pipe shown.
6. On outfall ditches with side slopes flatter than 1:1.5 provide 20' transitions from the endwall to the flatter side slopes, right of way permitting.
7. Construct front slope and ditch transitions in accordance with Index 430-001.
8. Quantities shown are for estimating purposes only.

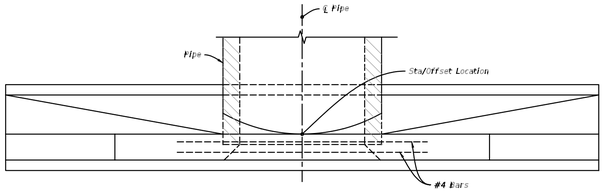
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Sheet	Description
1	General Notes and Contents
2	Concrete Endwall Details
3	Concrete and Metal Pipe Tables
4	Spacing For Multiple Pipes

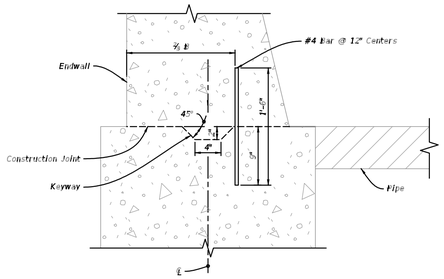


STRAIGHT CONCRETE ENDWALL

LAST REVISION	DESCRIPTION:	FY 2024-25 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX	SHEET
11/01/21				430-030	1 of 4

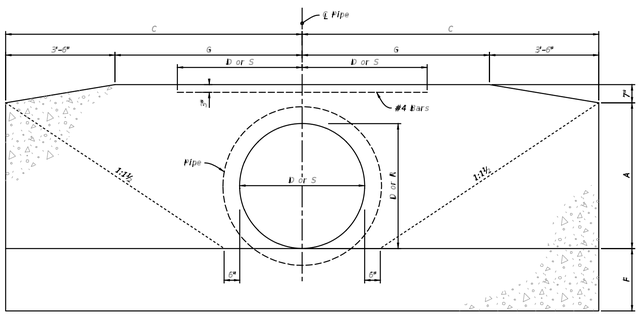


PLAN

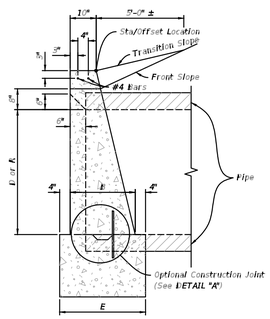


NOTE: Keyway and Dowels are required for optional construction joint.

DETAIL "A"



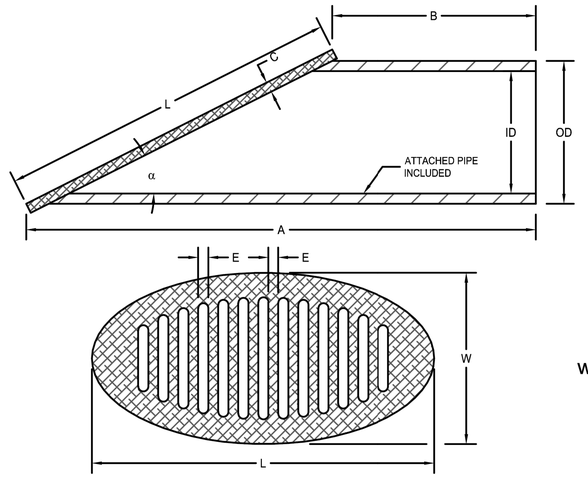
FRONT ELEVATION



SIDE ELEVATION

CONCRETE ENDWALL DETAILS

LAST REVISION	DESCRIPTION:	FY 2024-25 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX	SHEET
11/01/19				430-030	2 of 4



MITERED DRAIN™ INCORPORATED

DRAINAGE SOLUTIONS, INC

(317) 346-4110
www.drainagesolutionsinc.com

Mitered Drain™ (pat. pending)

DIMENSION TABLE *

PIPE SIZE	SLOPE	MODEL NO.	GRATE MATERIAL	ATTACHED MITERED PIPE MATERIAL	A(in.)	B(in.)	C(in.)	ID(in.)	OD(in.)	E(in.)	L(in.)	W (in.)	α	APPROX. WEIGHT (lbs.)	AREA OF GRATE OPENING (sq. in.)
3"	3:1	3MD3P-G	GRAY HDPE	PVC Sch. 80	15	4	0.375	2.85	3.5	0.375	11.6	4.0	18.5°	2	10.4
3"	3:1	3MD3P-B	BLACK HDPE	PVC Sch. 80	15	4	0.375	2.85	3.5	0.375	11.6	4.0	18.5°	2	10.4
3"	3:1	3CMD3-GN	GREEN HDPE	PVC Sch. 40	14.7	3	NA	3.03	3.5	0.375	12.4	4.0	18.5°	1.4	9.85
4"	3:1	4MD3P-G	GRAY HDPE	PVC Sch. 80	18.5	4.5	0.375	3.77	4.5	0.375	14.7	5.0	18.5°	3.5	17.9
4"	3:1	4MD3P-B	BLACK HDPE	PVC Sch. 80	18.5	4.5	0.375	3.77	4.5	0.375	14.7	5.0	18.5°	3.5	17.9
4"	3:1	4CMD3-GN	GREEN HDPE	PVC Sch. 40	18.5	3.5	NA	3.99	4.5	0.375	15.6	5.0	18.5°	2.3	15.76
6"	3:1	6MD3P	GRAY HDPE	C900-CL 200	30	8	0.75	5.85	6.9	0.50	22.4	7.5	18.5°	13	41.9
8"	3:1	8MD3P	GRAY HDPE	C900-CL 150	43	14	0.75	7.97	9.1	0.75	29.3	9.7	18.5°	26	76.7
12"	3:1	12MD3P	GRAY HDPE	C900-CL 150	58	17	0.75	11.63	13.2	1.0	42.5	14	18.5°	66	165.1

* ALL DIMENSIONS ARE IN INCHES AND ALL WEIGHTS ARE IN POUNDS, AND MAY VARY.

BASIC SPECIFICATIONS

Brass grates are made of copper alloy No. 836.
HDPE grates are made with UV inhibitor.
Set screws are type 18-8 stainless steel.
Not recommended for traffic loads. Made in the U.S.A.

1.0 / C17 MITERED END SECTION

*OR APPROVED EQUAL

CALL BEFORE YOU DIG! SUNSHINE STATE ONE CALL 811

CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG - NOT RESPONSIBLE FOR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

NO.	DATE	REVISION	BY

DRAWN BY: JAW
CHECKED BY: LAW
DATE: 7/21/2025
FILE:

HYDRA ENGINEERING & CONSTRUCTION, LLC
36 JASPER THOMAS ROAD
CRAWFORDVILLE, FL 32327
PHONE (850) 926-2593
FAX (850) 926-9257
WWW.HYDRAEC.COM
FLORIDA CA#28124

WAKULLA B.O.C.C.
CRAWFORDVILLE, FL

WAKULLA COUNTY LIBRARY CONSTRUCTION DETAILS 4

PROJECT NO.
2024110

C17

ROUND CONCRETE AND CORRUGATED METAL PIPE

Pipe	Dia. D	Opening Area (SF) Number Of Pipes 1	2	3	4	Dimensions A	B	C	E	F	G	Y	X 0°	15°	30°	45°	Class II Concrete (CY) Number Of Pipe And Skew Angle Of Pipe (α) Single 0°	Double 0°	Double 15°	Double 30°	Double 45°	Triple 0°	Triple 15°	Triple 30°	Triple 45°	Quadruple 0°	Quadruple 15°	Quadruple 30°	Quadruple 45°	Dia. D
Concrete	15"	1.23	2.46	3.69	4.92	1'-11"	1'-3"	4'-0"	1'-10"	1'-3"	0'-6"	2'-7"	2'-7"	2'-8"	3'-0"	3'-8"	1.23	1.59	1.60	1.65	1.74	1.94	1.96	2.05	2.23	2.30	2.34	2.47	2.74	15"
	18"	1.77	3.54	5.31	7.08	2'-2"	1'-3"	4'-6"	1'-11"	1'-3"	1'-0"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.56	1.99	2.01	2.06	2.17	2.43	2.46	2.56	2.79	2.86	2.91	3.06	3.40	18"
	21"	2.41	4.82	7.23	9.64	2'-5"	1'-4"	5'-0"	2'-0"	1'-4"	1'-6"	3'-2"	3'-2"	3'-3"	3'-8"	4'-6"	1.97													21"
	24"	3.14	6.28	9.42	12.56	2'-8"	1'-4"	5'-6"	2'-0"	1'-4"	2'-0"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	2.24	2.82	2.84	2.91	3.06	3.39	3.43	3.57	3.87	3.97	4.03	4.24	4.69	24"
	27"	3.98	7.96	11.94	15.92	2'-11"	1'-5"	6'-0"	2'-1"	1'-5"	2'-6"	3'-10"	3'-10"	4'-0"	4'-5"	5'-5"	2.73													27"
	30"	4.91	9.82	14.73	19.64	3'-2"	1'-5"	6'-6"	2'-2"	1'-5"	3'-0"	4'-3"	4'-3"	4'-5"	4'-11"	6'-0"	3.26	4.13	4.16	4.26	4.49	4.98	5.04	5.25	5.69	5.84	5.93	6.24	6.91	30"
	36"	7.07	14.14	21.21	28.28	3'-8"	1'-8"	7'-6"	2'-4"	1'-8"	4'-0"	5'-1"	5'-1"	5'-3"	5'-10"	7'-2"	4.53	5.73	5.77	5.92	6.23	6.92	7.00	7.29	7.91	8.13	8.26	8.69	9.62	36"
	42"	9.62	19.24	28.86	38.48	4'-2"	1'-10"	8'-6"	2'-8"	2'-0"	5'-0"	6'-0"	6'-0"	6'-3"	6'-11"	8'-6"	6.33	8.11	8.17	8.39	8.85	9.90	10.02	10.45	11.38	11.68	11.87	12.51	13.89	42"
	48"	12.57	25.14	37.71	50.28	4'-8"	2'-1"	9'-6"	2'-9"	2'-0"	6'-0"	6'-9"	6'-9"	7'-0"	7'-10"	9'-7"	8.15	10.40	10.48	10.75	11.33	13.64	12.80	13.34	14.99	14.89	15.13	15.93	17.68	48"
	54"	15.90	31.80	47.70	63.60	5'-2"	2'-6"	10'-6"	3'-2"	2'-3"	7'-0"	7'-8"	7'-8"	7'-11"	8'-10"	10'-10"	11.71	15.23	15.35	15.78	16.69	18.77	19.02	19.86	21.69	22.29	22.66	23.93	26.67	54"
Corrugated Metal	15"	1.23	2.46	3.69	4.92	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"	2'-7"	2'-7"	2'-8"	3'-0"	3'-8"	1.24	1.62	1.63	1.68	1.78	1.99	2.02	2.11	2.30	2.37	2.41	2.75	2.84	15"
	18"	1.77	3.54	5.31	7.08	2'-2"	1'-3"	4'-6"	1'-11"	1'-3"	1'-0"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.58	2.04	2.06	2.11	2.23	2.51	2.54	2.65	2.89	2.96	3.01	3.17	3.33	18"
	21"	2.41	4.82	7.23	9.64	2'-5"	1'-4"	5'-0"	2'-0"	1'-4"	1'-6"	3'-2"	3'-2"	3'-3"	3'-8"	4'-6"														21"
	24"	3.14	6.28	9.42	12.56	2'-8"	1'-4"	5'-6"	2'-0"	1'-4"	2'-0"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	2.29	2.91	2.93	3.01	3.17	3.52	3.56	3.71	4.03	4.14	4.20	4.43	4.91	24"
	27"	3.98	7.96	11.94	15.92	2'-11"	1'-5"	6'-0"	2'-1"	1'-5"	2'-6"	3'-10"	3'-10"	4'-0"	4'-5"	5'-5"														27"
	30"	4.91	9.82	14.73	19.64	3'-2"	1'-6"	6'-6"	2'-2"	1'-6"	3'-0"	4'-3"	4'-3"	4'-5"	4'-11"	6'-0"	3.34	4.28	4.31	4.43	4.67	5.20	5.27	5.49	5.97	6.13	6.23	6.56	7.29	30"
	36"	7.07	14.14	21.21	28.28	3'-8"	1'-8"	7'-6"	2'-4"	1'-8"	4'-0"	5'-1"	5'-1"	5'-3"	5'-10"	7'-2"	4.64	5.95	6.00	6.15	6.49	7.25	7.34	7.65	8.33	8.57	8.71	9.18	10.20	36"
	42"	9.62	19.24	28.86	38.48	4'-2"	1'-10"	8'-6"	2'-8"	2'-0"	5'-0"	6'-0"	6'-0"	6'-3"	6'-11"	8'-6"	6.43	8.50	8.50	8.73	9.23	10.38	10.52	10.98	11.99	12.32	12.52	13.22	14.73	42"
	48"	12.57	25.14	37.71	50.28	4'-8"	2'-1"	9'-6"	2'-9"	2'-0"	6'-0"	6'-9"	6'-9"	7'-0"	7'-10"	9'-7"	8.38	10.85	10.94	11.23	11.87	13.34	13.51	14.11	15.39	15.82	16.08	16.97	18.90	48"
	54"	15.90	31.80	47.70	63.60	5'-2"	2'-6"	10'-6"	3'-2"	2'-3"	7'-0"	7'-8"	7'-8"	7'-11"	8'-10"	10'-10"	11.77	15.35	15.48	15.90	16.83	18.93	19.18	20.04	21.89	22.51	22.89	24.17	26.96	54"

ELLIPTICAL CONCRETE AND CORRUGATED METAL PIPE ARCH

Pipe	Rise R	Span S	Opening Area (SF) Number Of Pipes 1	2	3	4	Dimensions A	B	C	E	F	G	Y	X 0°	15°	30°	45°	Class II Concrete (CY) Number Of Pipe And Skew Angle Of Pipe (α) Single 0°	Double 0°	Double 15°	Double 30°	Double 45°	Triple 0°	Triple 15°	Triple 30°	Triple 45°	Quadruple 0°	Quadruple 15°	Quadruple 30°	Quadruple 45°	Rise R	Span S	Approx. Equiv. Round
Concrete	12"	18"	1.3	2.6	3.9	5.2	1'-8"	1'-2"	3'-9"	1'-10"	1'-2"	0'-3"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.09	1.45	1.46	1.51	1.60	1.80	1.83	1.91	2.09	2.18	2.20	2.33	2.60	12"	18"	15"
	14"	23"	1.8	3.6	5.4	7.2	1'-10"	1'-3"	4'-2½"	1'-11"	1'-3"	8½"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	1.36	1.82	1.84	1.89	2.01	2.29	2.32	2.43	2.68	2.75	2.80	2.97	3.33	14"	23"	18"
	19"	30"	3.3	6.6	9.9	13.2	2'-3"	1'-4"	5'-1½"	2'-0"	1'-4"	1'-7½"	4'-2"	4'-2"	4'-4"	4'-10"	5'-11"	1.89	2.55	2.57	2.65	2.82	3.22	3.27	3.43	3.77	3.88	3.95	4.19	4.70	19"	30"	24"
	24"	38"	5.1	10.2	15.3	20.4	2'-8"	1'-5"	6'-3"	2'-5"	1'-5"	2'-9"	5'-2"	5'-2"	5'-4"	6'-0"	7'-4"	2.64	3.55	3.58	3.69	3.93	4.48	4.54	4.77	5.24	5.39	5.49	5.82	6.53	24"	38"	30"
	29"	45"	7.4	14.8	22.2	29.6	3'-1"	1'-6"	7'-0"	2'-7"	1'-6"	4'-0"	6'-0"	6'-0"	6'-3"	6'-11"	8'-6"	3.32	4.48	4.52	4.66	4.96	5.64	5.72	6.00	6.60	6.80	6.92	7.34	8.24	29"	45"	36"
	34"	53"	10.2	20.4	30.6	40.8	3'-6"	1'-7"	7'-11½"	2'-3"	1'-7"	4'-5½"	7'-1"	7'-1"	7'-4"	8'-2"	10'-0"	4.24	5.76	5.81	6.00	6.39	7.29	7.40	7.76	8.55	8.81	8.97	9.52	10.70	34"	53"	42"
	38"	60"	12.9	25.8	38.7	51.6	3'-10"	1'-8"	8'-9"	2'-4"	1'-8"	5'-3"	7'-11"	7'-11"	8'-2"	9'-2"	11'-2"	5.22	7.16	7.23	7.46	7.96	9.10	9.24	9.70	10.71	11.06	11.26	11.95	13.46	38"	60"	48"
	43"	68"	16.6	33.2	49.8	66.4	4'-3"	1'-10"	9'-8½"	2'-6"	1'-10"	6'-2½"	8'-10"	8'-10"	9'-2"	10'-2"	12'-6"	6.63	9.01	9.09	9.38	10.00	11.39	11.56	12.13	13.36	13.77	14.02	14.88	16.73	43"	68"	54"
	48"	76"	20.5	41.0	61.5	82.0	4'-8"	2'-1"	10'-8"	2'-9"	2'-0"	7'-2"	9'-9"	9'-9"	10'-1"	11'-3"	13'-9"	8.66	11.74	11.85	12.22	13.02	14.82	15.04	15.77	17.37	17.91	18.23	19.34	21.74	48"	76"	60"
	53"	83"	24.8	49.6	74.4	99.2	5'-1"	2'-6"	11'-7"	3'-2"	2'-6"	8'-1"	10'-7"	10'-7"	10'-11"	12'-3"	15'-0"	12.50	16.98	16.98	17.67	18.83	21.47	21.78	22.86	25.18	25.97	26.44	28.06	31.55	53"	83"	66"
	58"	91"	29.5	59.0	88.5	118.0	5'-6"	2'-10"	12'-6½"	3'-6"	2'-10"	9'-0½"	11'-4"	11'-4"	11'-9"	13'-1"	16'-0"	16.46	22.26	22.46	23.16	24.66	28.05	28.46	29.85	32.85	33.83	34.46	36.55	41.09	58"	91"	72"
Corrugated Metal	13"	17"	1.1	2.2	3.3	4.4	1'-9"	1'-2"	3'-10"	1'-10"	1'-2"	0'-4"	2'-6"	2'-6"	2'-7"	2'-11"	3'-6"	1.16	1.47	1.48	1.52	1.60	1.78	1.80	1.88	2.04	2.09	2.12	2.23	2.48	13"	17"	15"
	16"	21"	1.6	3.2	4.8	6.4	1'-11"	1'-3"	4'-3"	1'-11"	1'-3"	0'-9"	2'-10"	2'-10"	2'-11"	3'-3"	4'-0"	1.33	1.69	1.70	1.75	1.84	2.04	2.06	2.15	2.33	2.40	2.44	2.57	2.84	16"	21"	18"
	20"	28"	2.8	5.6	8.4	11.2	2'-4"	1'-3"	5'-2"	1'-11"	1'-3"	1'-8"	3'-5"	3'-5"	3'-6"	3'-11"	4'-10"	1.78	2.31	2.33	2.39	2.53	2.83	2.87	2.99	3.26	3.36	3.42	3.60	4.01	20"	28"	24"
	24"	35"	4.3	8.6	12.9	17.2	2'-8"	1'-4"	5'-11½"	2'-0"	1'-4"	2'-5½"	4'-0"	4'-0"	4'-2"	4'-7"	5'-8"	2.34	3.03	3.05	3.14	3.32	3.72	3.77	3.93	4.29	4.40	4.47	4.72	5.25	24"	35"	30"
	29"	42"	5.9	11.8	17.7	23.6	3'-1"	1'-5"	6'-10½"	2'-4"	1'-5"	3'-4½"	4'-9"	4'-9"	4'-11"	5'-6"	6'-9"	3.13	4.06	4.09	4.20	4.45	4.99	5.06	5.28	5.76	5.93	6.03	6.36	7.09	29"	42"	36"
	33"	49"	8.1	16.8	25.2	33.6	3'-5"	1'-6"	7'-8"	2'-7"	1'-6"	4'-5"	5'-6"	5'-6"	5'-8"	6'-4"	7'-9"	3.83	5.00	5.04	5.18	5.48	6.16	6.24	6.52	7.12	7.32	7.44	7.86	8.76	33"	49"	42"
	38"	57"	10.6	21.2	31.8	42.4	3'-10"	1'-7"	8'-7½"	2'-3"	1'-7"	5'-1½"	6'-4"	6'-4"	6'-7"	7'-4"	8'-11"	4.87	6.31	6.36	6.53	6.91	7.74	7.84	8.18	8.93	9.18	9.33	9.85	10.96	38"	57"	48"
	43"	64"	13.2	26.4	39.6	52.8	4'-3"	1'-8"	9'-6½"	2'-4"	1'-8"	6'-0½"	7'-1"	7'-1"	7'-4"	8'-2"	10'-0"	5.88	7.84	7.90	7.91	8.37	9.40	9.52	9.94	10.86	11.15	11.33	11.97	13.33	43"	64"	54"
	47"	71"	16.9	33.8	50.7	67.6	4'-7"	1'-10"	10'-4"	2'-6"	2'-0"	6'-10½"	7'-10"	7'-10"	8'-1"	9'-1"	11'-1"	7.80	10.15	10.23	10.51	11.12	12.49	12.65	13.22	14.43	14.85	15.10	15.94	17.77	47"	71"	60"

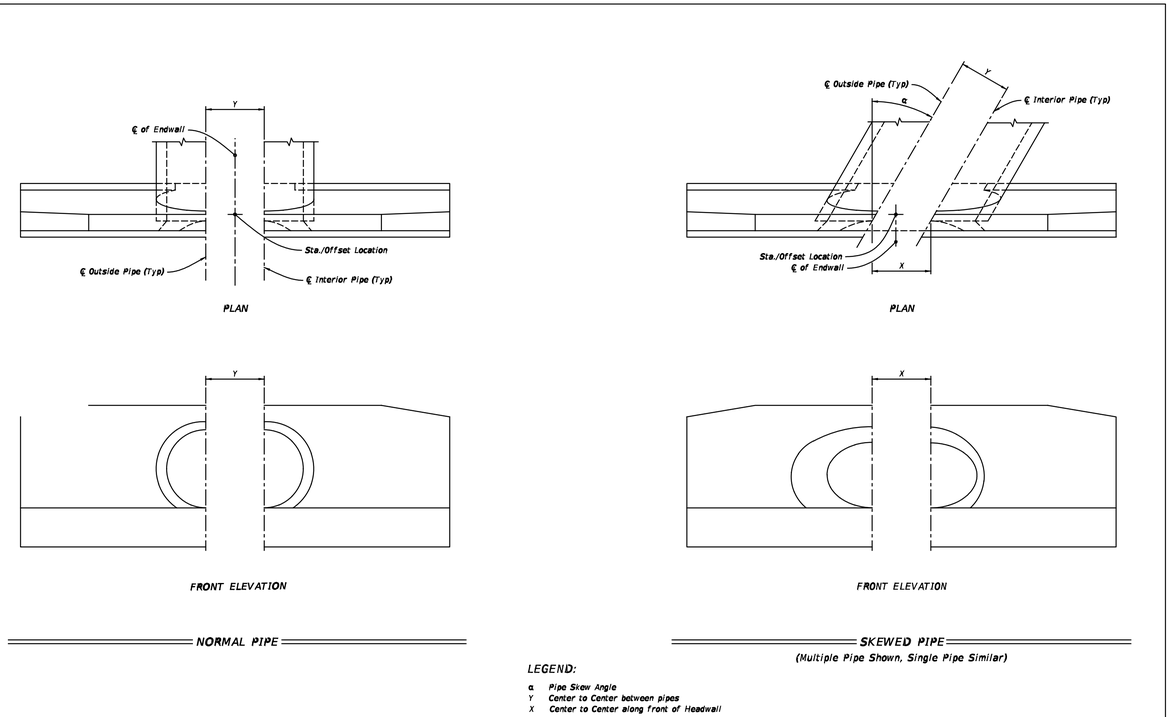
NOTES:

1. Dimension X is calculated as: X = Y*SEC α.
2. Select tabular quantities using skew values as follows:

End Skew to Pipe	Use Tabulated Value
0° to 3°	0°
6° to 13°	15°
16° to 30°	30°
31° or Over	45°

CONCRETE AND METAL PIPE TABLES

LAST REVISION 11/01/21	DESCRIPTION:	FY 2024-25 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX 430-030	SHEET 3 of 4



SPACING FOR MULTIPLE PIPES

	FY 2024-25 STANDARD PLANS	STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE	INDEX 430-030	SHEET 4 of 4

NO.	DATE	REVISION	BY

DESCRIPTION:
LAST REVISION 11/01/21

DRAWN BY: JAW
CHECKED BY: LAW
DATE: 7/21/2025
FILE:

CALL BEFORE YOU DIG! SUNSHINE STATE ONE CALL 811
CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

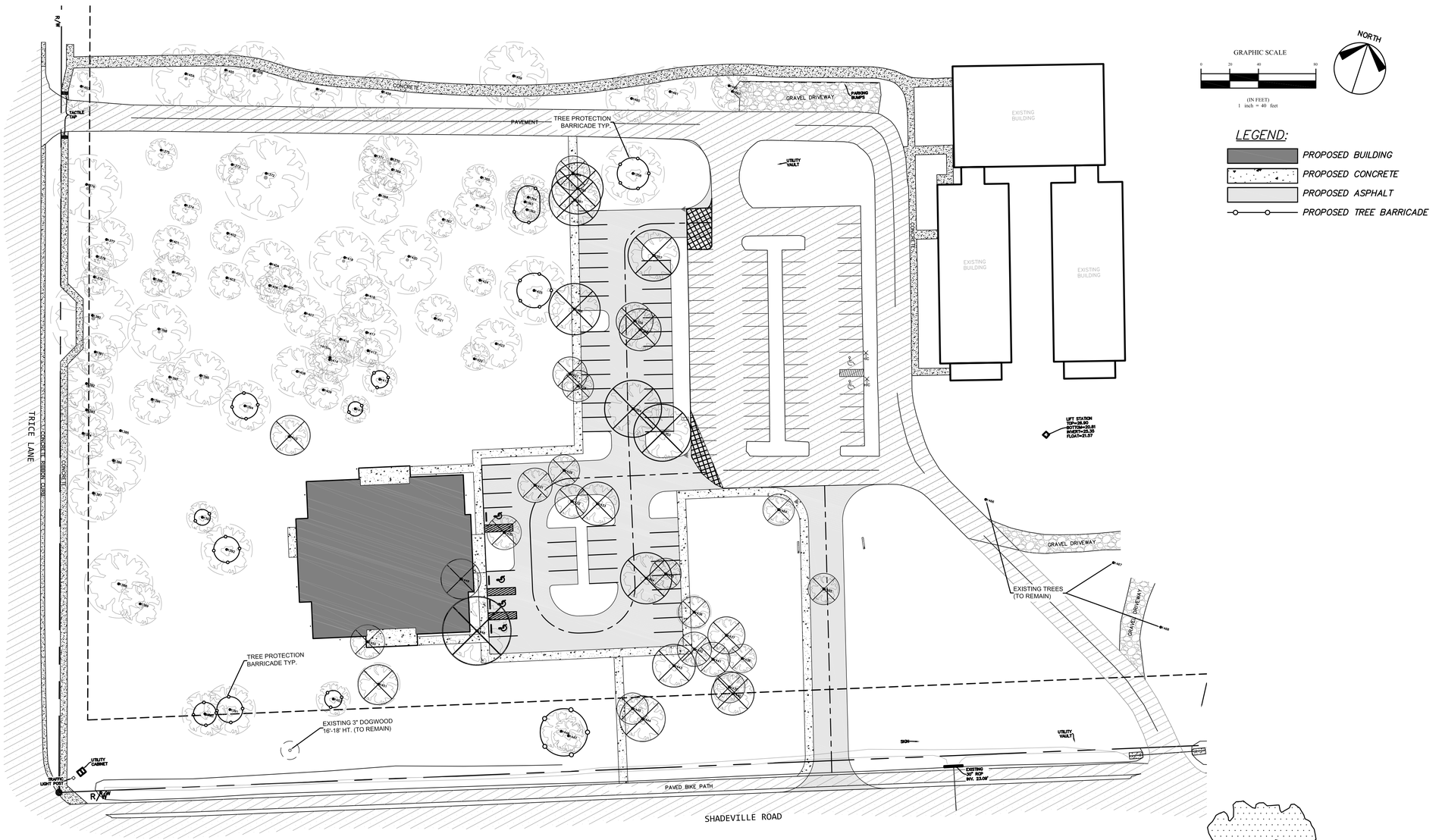
HYDRA ENGINEERING & CONSTRUCTION, LLC
36 JASPER THOMAS ROAD
CRAWFORDVILLE, FL 32327
PHONE (850) 926-2593
FAX (850) 926-9257
WWW.HYDRAEC.COM
FLORIDA CA#28124

WAKULLA B.O.C.C.
CRAWFORDVILLE, FL

WAKULLA COUNTY LIBRARY CONSTRUCTION DETAILS 5

PROJECT NO.
2024110

C18



GRAPHIC SCALE

0 20 40 80

(IN FEET)
1 inch = 40 feet

NORTH

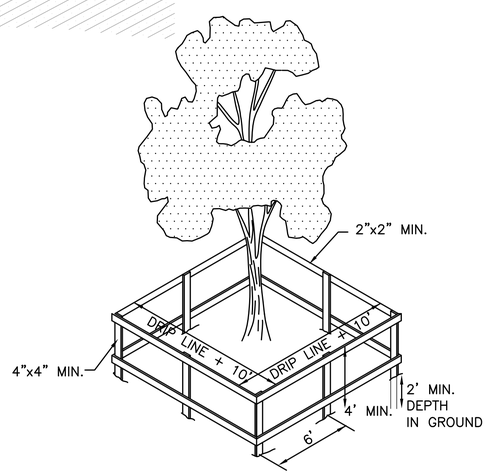
LEGEND:

- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED TREE BARRICADE

TREE MITIGATION PLAN

TREE PROTECTION NOTES:

1. Contractor shall install a tree protection barricade, prior to construction, all existing trees indicated (see plan). Barricade shall be equal in diameter to 1ft per inch in diameter of the tree. For example 10" caliper = 10ft diameter barricade. The tree protection barricade shall not be removed until project is near completion.
2. Under no circumstance should construction materials be stored, poured or placed within the tree protection barricade.
3. If irrigation is proposed within tree root protection zone, contractor shall install piping as shallow as reasonable in all areas with oak tree roots. In some cases piping may need to be 'snaked' under large roots.
4. All irrigation trenching in areas with tree roots shall be done carefully and cleanly by hand; Do not cut any Oak tree roots over 1"-2" in size (except as required note 5 below).
5. Irrigation piping shall be routed based on least disturbance to roots, not the shortest routes. This routing shall follow and be adjusted to any findings and recommendations by retained arborist.
6. In areas where major grading or surface clearing and grubbing is required with heavy equipment, such as new concrete infrastructure footings, etc., Do not tear, rip major roots but cut carefully and cleanly as you go.
7. If any large tree to remain is within an area where construction equipment mobility and access is absolutely necessary, install a 6" layer of mulch throughout entire drip line area to protect surface roots.
8. Any/all tree protection areas indicated on plans shall have a light application of humus, rotted or fine pine bark mulch or suitable equal (no cypress!!) applied after mychorrizal inoculates on the surface. Depending on actual surface conditions around trees at completion of construction, various application methods and products may be used. Provide product and methods for approval.
9. Prior to completion of project, contractor shall apply a 4" depth of fresh pinestraw mulch to all existing root protection areas beneath existing trees to remain. No excavation or grubbing is allowed within the root protection zone. It is recommended that mulch application be completed as early in construction as possible so as to provide root protection during construction and a weed-free condition at final acceptance.
10. Herbicide application is permitted within the root protection area but should be applied with special consideration and care so as not to harm or cause unnecessary damage to the tree.



TREE BARRICADE DETAIL
N.T.S.

EXISTING TREE TABLE

ID #	DBH (in) Protected Trees >10"	Tree Name	Trees to Remain (Y/N/NP	Credits	Debits
1353	20	POST OAK	N		20
1354	19	HICKORY	N		19
1355	15	HICKORY	N		15
1356	13	HICKORY	N		13
1357	18	LIVE OAK	N		18
1358	22	LIVE OAK	Y	33	
1359	12	WATER OAK	N		12
1360	18	LIVE OAK	N		18
1361	18	HICKORY	N		18
1362	18	LIVE OAK	Y	27	
1363	13	LIVE OAK	Y	19.5	
1364	16	LIVE OAK	Y	24	
1365	12	LIVE OAK	Y	18	
1366	15	HICKORY	Y	15	
1367	10	WATER OAK	Y	10	
1368	18	LIVE OAK	Y	27	
1369	11	WATER OAK	Y	11	
1370	22	LIVE OAK	Y	33	
1371	10	WATER OAK	Y	10	
1372	30	LIVE OAK	Y	45	
1373	11	HICKORY	Y	11	
1374	11	LIVE OAK	Y	11	
1375	11	HICKORY	Y	11	
1376	24	WATER OAK	Y	36	
1377	18	HICKORY	Y	18	
1378	11	HICKORY	Y	11	
1379	10	HICKORY	Y	10	
1380	30	RED OAK	Y	45	
1381	15	LIVE OAK	Y	22.5	
1382	18	LIVE OAK	Y	27	
1383	18	HICKORY	Y	18	
1384	17	LIVE OAK	Y	25.5	
1385	12	SWEET GUM	Y	12	
1386	22	SWEET GUM	Y	22	
1387	19	LIVE OAK	Y	28.5	
1388	24	RED OAK	Y	36	
1389	15	WATER OAK	Y	15	
1390	16	HICKORY	Y	16	
1391	18	LIVE OAK	Y	27	
1392	18	LIVE OAK	Y	27	
1393	11	HICKORY	Y	11	
1394	18	LIVE OAK	Y	27	
1395	20	LIVE OAK	Y	30	
1396	16	WATER OAK	Y	16	
1397	12	LIVE OAK	Y	18	
1398	22	LIVE OAK	Y	33	
1399	10	HICKORY	Y	10	
1400	16	RED OAK	Y	16	
1401	13	LIVE OAK	Y	19.5	
1402	12	LIVE OAK	Y	18	
1403	13	HICKORY	Y	13	
1404	20	LIVE OAK	Y	30	
1405	17	LIVE OAK	Y	25.5	
1406	10	HICKORY	Y	10	
1407	15	HICKORY	Y	15	
1408	18	LIVE OAK	Y	27	
1409	14	LIVE OAK	Y	21	
1410	13	RED OAK	N		13
1411	10	MAGNOLIA	Y	10	
1412	12	RED OAK	Y	12	
1413	10	HICKORY	Y	10	
1414	17	LIVE OAK	Y	25.5	
1415	12	LIVE OAK	Y	18	
1416	18	HICKORY	Y	18	
1417	24	RED OAK	Y	36	
1418	17	RED OAK	Y	17	
1419	24	LIVE OAK	Y	36	
1420	24	LIVE OAK	Y	36	
1421	15	LIVE OAK	Y	22.5	
1422	10	HICKORY	Y	10	
1423	18	LIVE OAK	Y	27	
1424	11	WATER OAK	Y	11	
1425	24	LIVE OAK	Y	36	
1426	18	LIVE OAK	N		18
1427	12	HICKORY	Y	12	
1428	11	HICKORY	N		11
1429	11	HICKORY	N		11
1430	12	HICKORY	N		12
1431	12	SWEET GUM	N		12
1432	12	SWEET GUM	N		12
1433	15	LIVE OAK	Y	22.5	
1434	18	LIVE OAK	N		18
1435	11	LIVE OAK	N		11
1436	12	SWEET GUM	N		12
1437	13	SWEET GUM	N		13
1438	10	SWEET GUM	N		10
1439	10	SWEET GUM	N		10
1440	15	LIVE OAK	N		15
1441	12	SWEET GUM	N		12
1442	12	SWEET GUM	N		12
1443	15	LIVE OAK	N		15
1444	16	LIVE OAK	N		16
1445	11	HICKORY	N		11
1446	15	SWEET GUM	Y	15	
1447	12	CABBAGE PALM	Y	12	
1448	24	LIVE OAK	N		24
1449	14	WATER OAK	N		14
1450	12	WATER OAK	N		12
1451	15	SWEET GUM	N		15
1452	12	SWEET GUM	Y		12
1453	15	HICKORY	Y	15	
1454	24	LIVE OAK	Y	36	
1455	17	LIVE OAK	Y	25.5	
1456	24	RED OAK	Y	36	
1457	18	LIVE OAK	Y	27	
1458	18	LIVE OAK	Y	27	
1459	24	LIVE OAK	Y	36	
1460	18	LIVE OAK	Y	27	
1461	18	WATER OAK	Y	18	
1462	12	LIVE OAK	Y	18	
1463	15	WATER OAK	Y	15	
1464	10	HICKORY	N		10
1465	10	SWEET GUM	N		10
1466	-	OFF SITE	-		
1467	-	OFF SITE	-		
1468	-	OFF SITE	-		
1469	24	LIVE OAK	Y	36	
1470	12	LIVE OAK	Y	18	
TOTALS	**1805**			**1763**	**474**

REVISIONS:

Designs by Alicia
CUSTOM LANDSCAPE DESIGNS
Residential and Commercial
850-508-9805

REGISTERED LANDSCAPE ARCHITECT
LAURIE ALICIA HICKS-COOPER
LA 6667469
STATE OF FLORIDA

WAKULLA LIBRARY
318 SHADEVILLE ROAD
CRAWFORDVILLE, FLORIDA

SCALE: 1"=40'

DATE: 07/25/25

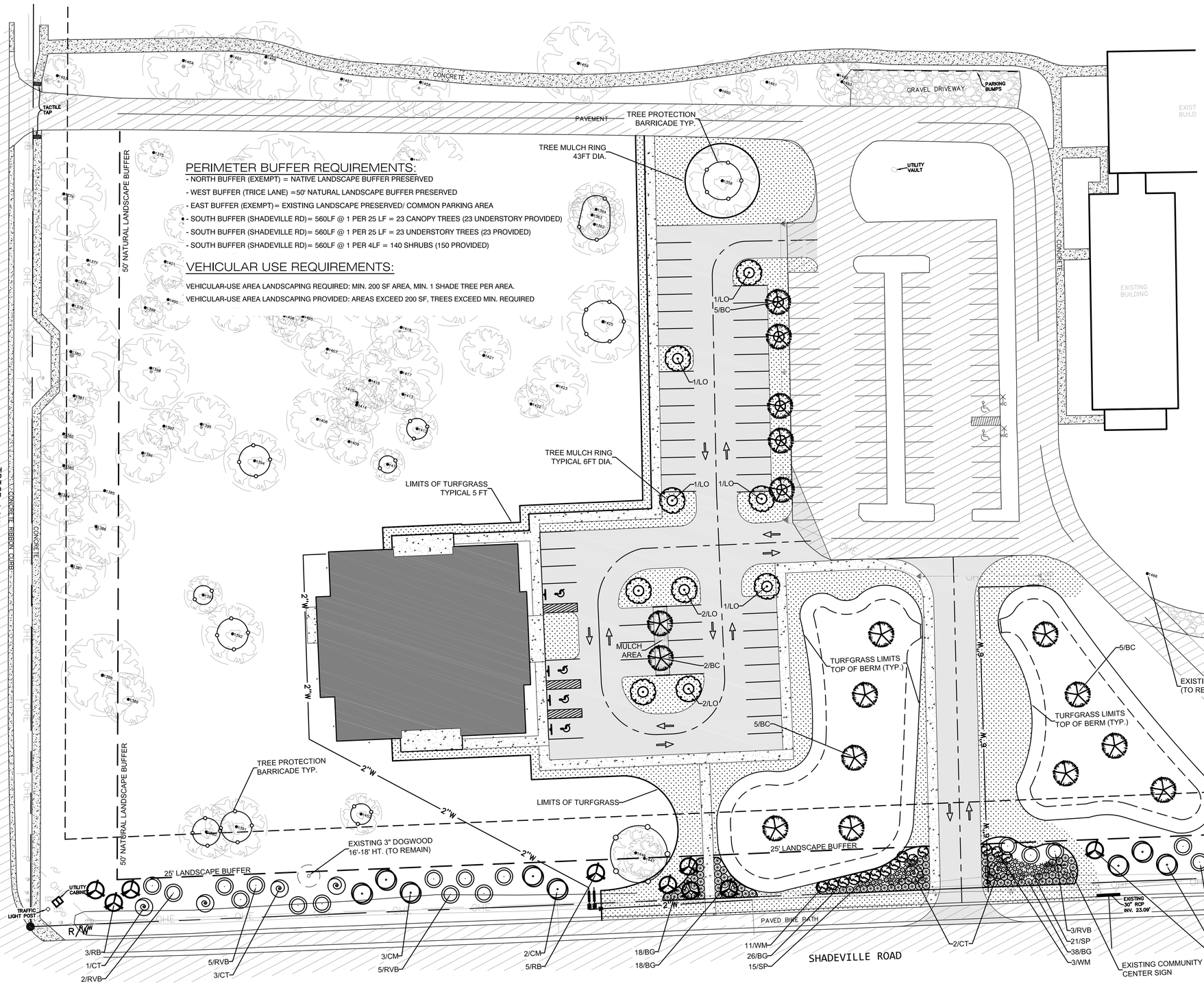
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DRAWN BY: A.H.C.

DESIGNED BY: A.H.C.

SHEET TITLE: TREE MITIGATION PLAN

SHEET: TM 1



LEGEND:

- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED LANDSCAPE ISLAND

PLANTING SCHEDULE

SYM	QTY	NOMENCLATURE	SIZE & SPECIFICATION
Trees			
LO	8	Quercus virginiana Live Oak	3" caliper,
BC	17	Taxodium distinchum Bald Cypress	3" caliper, 10'-12' Ht., 3'-4' Sprd.
Understory Trees			
RVB	19	Betula nigra 'Dura Heat' Duraheat River Birch	Multi-trunk, 1" caliper min per trunk
RB	9	Cercis canadensis Red Bud	8' Ht., 3' Sprd., 2'-3' Sprd.
CM	10	Lagerstroemia indica Crepe Myrtle	Multi-trunk, 10'-12' Ht. 1" caliper canes, 3 Canes max
CT	8	Vitex spp. Chaste Tree	8' Ht., Standard, 2'-3' Sprd.
Shrubs			
SP	36	Serenoa repens Saw Palmetto	18" Ht., 15" Sprd., 3 Gallon
WM	14	Myrica cerifera Wax Myrtle	24" Ht., 18" Sprd, 3 Gallon
Groundcover & Grasses			
BG	100	Lomandra longifolia Breeze Grass	18" Ht., 18" Sprd, 3 Gallon
Turfgrass			
	24,319	Zoysia japonica Zoysia Turfgrass Sod	Square Feet of solid sod

LANDSCAPE PLAN

REVISIONS:

Designs by Alicia
CUSTOM LANDSCAPE DESIGNS
Residential and Commercial
850-508-9805

REGISTERED LANDSCAPE ARCHITECT
LAURIEL ALICIA HICKS-COOMBS
LA 6667469
STATE OF FLORIDA

WAKULLA LIBRARY
318 SHADEVILLE ROAD
CRAWFORDVILLE, FLORIDA

SCALE:	1"=30'
DATE:	07/25/25
FILE NAME:	2025_HydraEng__WakullaLibrary__Landsc.Plan.dwg
DRAWN BY:	A.H.C.
DESIGNED BY:	A.H.C.
SHEET TITLE	LANDSCAPE PLAN
SHEET	LS 1.0

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL FEDERAL, STATE AND COUNTY CODES, RESTRICTIONS AND REQUIREMENTS.
2. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE GENERAL CONTRACTOR AND OWNERS REPRESENTATIVE.
3. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY UNFORESEEN SITE CONDITIONS. (COMPACTED SOIL/SUBGRADE, DEBRIS, ROADWAY BASE, MATERIALS, POOR DRAINAGE, UTILITY CONFLICTS, ETC.) PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.
4. THE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR AND/OR ALL UTILITY COMPANIES (VIA SUNSHINE ONE CALL) PRIOR TO CONSTRUCTION AND NO UTILITY SHALL BE RELOCATED. RATHER, THE PROPOSED PLANTING LOCATIONS SHALL BE ADJUSTED TO ACCOMMODATE THE EXISTING UTILITY. THE OWNERS REPRESENTATIVE SHALL NEGOTIATE ANY UTILITY CONFLICTS. IF DAMAGES ARE CAUSED BY LANDSCAPE CONTRACTOR ALL EXPENSES INCURRED SHALL BE THE SOLE RESPONSIBILITY OF CONTRACTOR.
5. THE LANDSCAPE CONTRACTOR SHALL VERIFY AND MAINTAIN THE VISIBLE LOCATION OF ALL UTILITIES DURING CONSTRUCTION. ALL EXCAVATION WITHIN 5 FT. OF UTILITIES SHALL BE DONE BY HAND. MAINTAIN SURFACE MARKINGS, FLAGS, ETC. OF UTILITY LOCATIONS, RE-LOCATE IF NEEDED. RECORD ACCURATELY ON AS-BUILT DRAWINGS WHEN NEAR PROJECT COMPONENTS.
6. ALL AREAS OUTSIDE THE CONSTRUCTION LIMITS THAT ARE DAMAGED OR DISTURBED BY THE LANDSCAPE CONTRACTORS OPERATIONS SHALL BE REPAIRED OR REPLACED BY THE LANDSCAPE CONTRACTOR AT THEIR EXPENSE.
7. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. THE CONTRACTOR SHALL NOT DISTURB OR STORE MATERIALS OR EQUIPMENT ON ANY WETLANDS, NATURAL ECOSYSTEM AREAS, OR WITHIN THE DRIPLINE OF EXISTING TREES.
8. THE CONTRACTOR SHALL RESTRICT PERSONNEL, THE USE OF EQUIPMENT AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION. ANY OFF-SITE STORAGE AREA WILL REQUIRE PRIOR APPROVAL BY THE OWNER'S REPRESENTATIVE.
9. THE CONTRACTOR IS REQUIRED TO COMPLY WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL. ANY COST OF EROSION CONTROL SHALL BE INCLUDED IN THE COST OF THE PROJECT. CONTRACTOR SHALL NOT CAUSE CONDITIONS OF EROSION OR SEDIMENTATION DISCHARGE ON ROADWAY AT ANY TIME DURING CONSTRUCTION.
10. PLANS ARE INTENDED TO DEPICT THE LANDSCAPE ARCHITECTS BEST DESIGN INTENT AND KNOWN SITE CONDITIONS. SOME MINOR ADJUSTMENTS MAY BE REQUIRED. IF FIELD ADJUSTMENTS ARE REQUIRED, CONTRACTOR SHALL NOTIFY OWNERS REPRESENTATIVE PRIOR TO PERFORMING SAID ADJUSTMENTS.
11. ALL AREAS INADVERTENTLY DISTURBED AND NOT SPECIFICALLY DESIGNATED ON PLANS, SHALL BE RE-PLANTED AT THE COST OF THE CONTRACTOR. ALL DAMAGED AND/OR DISTURBED AREAS SHALL BE RESTORED TO PREVIOUS CONDITIONS OR BETTER. ANY DISTURBED AREAS TO RECEIVE TURF SHALL BE SMOOTHLY GRADED AND FIRM WITH POSITIVE DRAINAGE PRIOR TO THE INSTALLATION OF SOD.
12. ALL CONTRACTORS SHALL BE REQUIRED TO COMPLETELY REMOVE ALL TRASH, DEBRIS AND EXCESS MATERIALS FROM THE WORK AREA AND THE PROPERTY (ESPECIALLY AT ALL CURB, GUTTERS AND SIDEWALKS) DAILY DURING INSTALLATION.

PLANTING NOTES:

SCOPE OF WORK:
THIS WORK SHALL CONSIST OF PERFORMING MINOR CLEARING AND GRUBBING AS NEEDED, SOIL PREPARATION, FINISH GRADING, TREE, SHRUB, GROUNDCOVER AND TURFGRASS INSTALLATION, INCLUDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TESTING AND ANY APPROVALS, WARRANTY, MAINTENANCE AND OTHER APPURTENANCES NECESSARY FOR THE COMPLETION OF THIS PROJECT. PLANTING INSTALLATION SHALL CONFORM AT MINIMUM TO THE DETAILS PROVIDED WITHIN THESE PLANS. PLANT SCHEDULE IS PROVIDED FOR LANDSCAPE CONTRACTOR'S CONVENIENCE. LANDSCAPE CONTRACTOR SHOULD VERIFY PLAN PRIOR TO PROVIDING ESTIMATE AND INSTALLATION.

1. ALL PLANTING AREAS ADJACENT TO PAVEMENT SHALL HAVE A FINISH GRADE OF SOIL NO LESS THAN 1" BELOW THE TOP PAVEMENT/CURB.
2. THOROUGHLY ERADICATE AND SPRAY TO KILL EXISTING LANDSCAPE GRASS AND WEED SURFACE. HAND GRUB AND THOROUGHLY RAKE ALL PROPOSED GROUND COVER AND GRASS AREAS AS NEEDED TO ERADICATE WEED ROOTS. REFER TO THE CLEARING, GRUBBING AND THE PREPARATION NOTES.
3. ALL PLANT MATERIAL SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER'S REPRESENTATIVE. ALL GRADABLE NURSERY PLANTS SHALL BE FLORIDA #1 OR BETTER AS DESCRIBED IN "GRADES AND STANDARDS FOR NURSERY PLANTS", STATE OF FLORIDA LATEST EDITION. CONTAINER GROWN PLANTS: A MIN. OF 80% OF THE CONTAINER ROOTBALL MUST BE BOUND BY THE ROOT SYSTEM. ENCIRCLING OR "RING" ROOTS ARE PROHIBITED AND PLANTS WILL BE REJECTED.
   - PLANTING SIZE DETERMINATION: SHADE TREES: HEIGHT SHALL BE MEASURED FROM THE CROWN OF THE ROOT BALL TO THE TOP OF MATURE GROWTH. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH. SINGLE TRUNK TREES SHALL BE FREE OF "V" CROTCHES THAT COULD BE POINTS OF WEAK LIMB STRUCTURE OR DISEASE INFESTATION.
   - SHRUBS: HEIGHT SHALL BE MEASURED FROM THE CROWN OF THE ROOT BALL TO THE AVERAGE HEIGHT OF THE TOP OF THE PLANT. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE SHRUB MASS. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH.
   - ALL PLANT MATERIAL INSTALLED SHALL BE HEALTHY, FREE OF DISEASES, PESTS AND FUNGUS. MATERIAL SHALL MEET OR EXCEED FLORIDA #1 MATERIAL.
4. ALL MATERIALS SHALL BE WARRANTED FOR A PERIOD OF 1 YEAR FROM FINAL ACCEPTANCE OF PROJECT. COST OF WARRANTED MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE OF THE MATERIAL UNLESS OTHERWISE INSTRUCTED AND INDICATED ON BID FORM.
5. NO SUBSTITUTIONS OF SPECIFIED PLANT MATERIALS WILL BE PERMITTED UNLESS APPROVED BY THE OWNERS REPRESENTATIVE, LANDSCAPE ARCHITECT OR ASSIGNEES. THEREFORE, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF 10 BUSINESS DAYS PRIOR TO INSTALLATION OF ANY PLANT MATERIAL THAT IS UNABLE TO BE LOCATED FROM A LOCAL NURSERY, THUS ALLOWING AMPLE TIME FOR THE LANDSCAPE ARCHITECT TO RECOMMEND A COMPARIABLE SUBSTITUTE SO AS TO MAINTAIN THE INTEGRITY OF THE DESIGN.
6. IF ANY CHANGES ARE PROPOSED TO THE DESIGN (LOCATION OR SPACING OF PLANT MATERIALS, ARRANGEMENTS, BEDLINE DESIGN, ETC.) THE OWNER'S REP SHALL BE CONTACTED FOR APPROVAL PRIOR TO MAKING PROPOSED CHANGES. UPON COMPLETION OF THE PROJECT, A RECORD SET OF DRAWINGS, HARD COPIES AND CAD SHALL BE PROVIDED TO THE OWNER INDICATING FINAL LOCATIONS OF ALL MATERIAL INSTALLED.
7. PLANTING BED PREPARATION:
   a. LIMITS OF PLANTS AND PLANTING BEDS SHALL REFLECT PLANS TO THE GREATEST EXTENT POSSIBLE. COORDINATE WITH OWNER'S REPRESENTATIVE TO VIEW LAYOUT AND BED OUTLINES ONSITE. CONTRACTOR SHALL MAKE MODIFICATIONS AS MAY BE REQUESTED.
   b. HERBICIDE APPLICATION: FOR PROPOSED TURF AREAS AND MULCH BED AREAS, BEGIN TURF SPRAYING PROCESS A MIN. OF 30 DAYS PRIOR TO PLANTING AS FOLLOWS: SPRAY AREAS TO BE KILLED WITH GLYPHOSATE PER MANUFACTURER'S RECOMMENDATIONS. 7 DAYS AFTER SPRAYING, CLOSE MOW TO 1" HEIGHT. 14 DAYS AFTER CLOSE MOWING, RE-SPRAY WITH GLYPHOSATE PER MANUFACTURER'S RECOMMENDATIONS. 7 DAYS AFTER RE-SPRAYING, PROCEED WITH TURF REMOVAL IN PROPOSED SOD AREAS. LEAVE KILLED TURF IN PLACE FOR PROPOSED MULCH BEDS. PROPOSED INDIVIDUAL TREE RINGS DO NOT REQUIRE HERBICIDE APPLICATION.
   c. TURF AND OTHER MATERIAL SHALL BE THOROUGHLY REMOVED PRIOR TO THE PLANTING AND BACKFILL PROCESS.
   d. EXCAVATE PLANTING PITS AT DIAMETER/SIZE DETAILED. THE DEPTH OF THE HOLE SHALL BE 2" SHALLOWER THAN THE ROOTBALL; THEN DIG DEEPER AROUND THE HOLE'S PERIMETER, CREATING A FIRM CENTRAL PLATEAU SO THAT EXCESS WATER WILL FLOW AWAY FROM ROOTBALL.
   e. WHERE PLANTING BEDS ARE PROPOSED, CLEAR AND GRUB TO A MIN., DEPTH OF 4" AS NEEDED. REMOVE REMNANT PLANTS AND STUMPS/DEBRIS AS NEEDED. EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
   f. PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL PLANTING BEDS. THE HERBICIDE ACTIVE INGREDIENTS SHALL BE SUITABLE FOR CONTROL OF ANNUAL AND PERENNIAL BROADLEAF WEEDS AND GRASSES. THE HERBICIDE SHALL BE APPLIED BY HAND PER MANUFACTURER'S RECOMMENDATIONS FOR APPLICATION METHOD, TIMING AND APPLICATION RATE SHALL BE STRICTLY ADHERED TO.
   g. PLACE THE ROOTBALL ON THE PLATEAU, MAKING SURE IT IS 2" HIGHER THAN THE SURROUNDING SOIL.
   h. FILL IN PLANTING PIT WITH BLENDED SOIL BACKFILL MIXTURE. SEE NOTE 11 & 12 ON THIS SHEET FOR SPECIFICS AND REQUIREMENTS.
   i. FILL AND TAMP LIGHTLY AROUND EACH AND EVERY PLANT. FLUSH WITH WATER AND MAKE ADJUSTMENTS TO PROVIDE PROPERLY SET PLANT MATERIAL WITH THE TOP OF THE ROOTBALL EVEN WITH FINISHED GRADE AND WITH ROOT FLARE 1" ABOVE GRADE FOR TREES. INSTALL FERTILIZER PER MANUFACTURER RECOMMENDATIONS .
   j. BUILD SAUCER TO CONTAIN WATER AROUND EACH PLANTING PIT. REMOVE EXCESS EXCAVATED SOIL FROM THE SITE.
   k. ESTABLISH FINISHED PRE-MULCHED GRADE.
   l. SPREAD PINE STRAW ACROSS ENTIRE BED TO A DEPTH OF 4". PINE STRAW SHALL BE FRESH SLASH OR LONGLEAF PINE STRAW. SHRUB BEDS AND TREE RINGS SHALL HAVE A 4" STRAW DEPTH AFTER MANICURE AND COMPACTION; 1" AT CURB-PAVEMENT EDGES. MULCH BED AROUND TREES 8FT. MIN. DIAMETER
   m. PROPOSED SOD AREAS SHALL BE RAKED SMOOTH, SPREAD TOPSOIL (AVG. 2" DEPTH) ACROSS PROPOSED SOD AREAS TO ESTABLISH PRE-FINISHED GRADE., PLACE SOD WITH STAGGERED JOINTS AND SEAMS TIGHTLY BUTTED TOGETHER. PEG IN PLACE WHERE MOVEMENT OR SLIPPAGE IS A CONCERN.
10. MULCH – SHALL BE FRESH SLASH OR LONGLEAF PINE STRAW. SHRUB BEDS AND TREE RINGS SHALL HAVE 4" PINE STRAW DEPTH AFTER MANICURE AND COMPACTION; 1" AT CURB. TAMP EDGES DOWN WITH FOOT OR HAND TAMPER.
11. "BLENDED SOIL" SHALL CONSIST OF ⅓ MUSHROOM COMPOST OR PEAT, ⅓ COMPOSTED COW MANURE AND ⅓ COMPOSTED BARK.
12. PLANTING BACKFILL MIXTURE FOR TREES AND SHRUBS/GRASSES SHALL CONSIST OF 30% "BLENDED SOIL AND 70% EXISTING SOIL. ALL PLANTING BACKFILL MIXTURES ARE SUBJECT TO OWNER'S REPRESENTATIVE APPROVAL. MIX THOROUGHLY PRIOR TO INSTALLATION. SOIL REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR MUST LOAD, HAUL, AND SPREAD ALL TOPSOIL AND ANY OTHER SOIL ADDITIVES AS REQUIRED.
13. WHERE TREES ARE PLANTED IN ROWS OR LIKE-KIND GROUPS, THEY SHALL BE UNIFORM IN SIZE AND SHAPE. SHRUB MASSES AND GROUNDCOVERS SHALL BE TRIANGULARLY SPACED AT SPACING SHOWN ON PLANTING PLANS.
14. GROUPS OF SHRUBS SHALL BE PLACED IN A CONTINUOUS MULCH BED WITH SMOOTH CONTINUOUS LINES. ALL MULCHED BED EDGES SHALL BE CURVILINEAR IN SHAPE FOLLOWING THE CONTOUR OF THE PLANT MASS. TREES LOCATED WITHIN FOUR FEET OF SHRUB BEDS SHALL SHARE SAME MULCH BED.
15. ALL PLANT MATERIAL SHALL BE SPACED AND LOCATED PER PLAN. IF CONFLICTS ARISE BETWEEN ACTUAL SIZE OF AREA AND PLANS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE OWNER OR LANDSCAPE ARCHITECT. FAILURE TO NOTIFY OF CONFLICTS SHALL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE MATERIAL.
16. CONTRACTOR TO SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITIES. FINISHED PLANTING BEDS SHALL BE GRADED SO AS TO NOT IMPEDE DRAINAGE AWAY FROM BUILDINGS. IF SIGNIFICANT RELOCATIONS ARE REQUIRED, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH RELOCATIONS KNOWN TO THE OWNER OR LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY OF PLANT MATERIALS.
17. CONTRACTOR SHALL ENSURE THAT TREES REMAIN VERTICAL AND UPRIGHT FOR THE DURATION OF THE WARRANTY PERIOD. GUYS AND STRAPPING CAN BE USED TO ENSURE PROPER VERTICAL POSITION, BUT SHALL BE REMOVED UPON END OF WARRANTY AND SHALL NOT BE LEFT FOR OWNER TO REMOVE.
18. CROWN OF ROOT BALL SHALL BE HIGHER (AFTER SETTLING) THAN ADJACENT SOIL.
19. IF ANY PLANT MORTALITY OCCURS DURING PROJECT INSTALLATION, DEAD PLANTS ARE TO BE REMOVED FROM THE JOB BY THE CONTRACTOR WEEKLY. CONTRACTOR SHALL MAINTAIN AN UPDATED, COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AND OWNER'S REPRESENTATIVE AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
20. TRUNK LOCATIONS WITH LARGE MATURING TREES MUST BE A MIN. OF 25 FT FROM O.H. POWER LINES.
21. CONTRACTOR SHALL SUPPLY AMENDMENTS AND FERTILIZERS AS APPROPRIATE TO ENSURE PROPER ESTABLISHMENT AND THRIVING GROWTH OF PLANT MATERIAL.
22. FOR BIDDING PURPOSES, FERTILIZER FOR INITIAL INSTALLATION OF TREES, SHRUBS AND GROUNDCOVER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 15-9-12 ANALYSIS AND CONTAINING TRACE ELEMENTS Mg, S, B, Cu, Fe, Mn, Mo, AND Zn. FERTILIZER GRANULES SHALL BE COMPOSED OF DRY NUTRIENTS ENCAPSULATED IN MULTIPLE LAYERS OF POLYMERIC RESIN.
23. FOR INSTALLATION OF SOD, FERTILIZER IS ASSUMED TO BE CONTROLLED RELEASE FERTILIZER WITH A 16-4-8 ANALYSIS.
24. SOURCE FOR NITROGEN SHALL BE RESIN-COATED UREA OR RESIN COATED AMMONIUM SALTS. MN, Zn, AND Cu SHALL BE SULFATE FORMS. Fe SHALL BE GRANULAR CHELATED IRON.
25. APPLICATION RATES ARE PROVIDED AS RECOMMENDATIONS ONLY. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE APPROPRIATE FERTILIZER/ AMENDMENTS TO ENSURE PROPER ESTABLISHMENT AND VIGOR OF PLANT MATERIAL.

1.0 OZ PER EA 1 GALLON CONTAINER 3.0 OZ PER EA 3 GALLON CONTAINER

9.0 OZ PER EA 15 GALLON CONTAINER 48.0 OZ PER EA TREE

SOD AREAS: 6LBS/1000SF

SUGGESTED GUIDELINES FOR MAINTENANCE:

THE FOLLOWING OPERATIONS SHALL BE PERFORMED BY THE CONTRACTOR DURING THE ESTABLISHMENT PERIOD. THE ESTABLISHMENT PERIOD SHALL BE FROM THE TIME OF INSTALLATION FOR A PERIOD OF (3) MONTHS AFTER FINAL ACCEPTANCE. NOTE, SOME TASKS MAY NEED TO BEGIN IMMEDIATELY UPON INSTALLATION. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROPER MAINTENANCE, SURVIVAL, AND CONDITION OF ALL NEWLY INSTALLED LANDSCAPE ITEMS UNDER THIS CONTRACT DURING THIS PERIOD OF TIME. UPON COMPLETION OF THE (3) MONTH ESTABLISHMENT PERIOD ALL MATERIAL SHALL BE WARRANTED FOR AN ADDITIONAL 9 MONTHS. UPON COMPLETION OF THE WARRANTY AND ESTABLISHMENT PERIOD THE OWNER SHALL ASSUME RESPONSIBILITY OF THE MATERIAL.

1. FERTILIZER
   APPLY A SLOW RELEASE FERTILIZER AT LEAST ONCE DURING THE (3) MONTH MAINTENANCE PERIOD TO ALL TREES, SHRUBS AND GROUNDCOVERS. SEE GENERAL NOTES FOR APPLICATION RATES. APPLY AS OUTLINED UNLESS OTHERWISE DIRECTED BY SCHOOL BOARD REPRESENTATIVE.
2. WEEDING
   WEEDING OF NEWLY PLANTED AREAS SHALL BE DONE AT A MINIMUM OF ONCE A MONTH DURING MAINTENANCE PERIOD. WEEDS SHALL BE IMMEDIATELY REMOVED FROM PLANTING AREAS. WEED REMOVAL SHALL BE DONE MANUALLY (HAND PULLED) AND HERBICIDES MAY BE UTILIZED IN PROBLEM AREAS.
3. HERBICIDE/PESTICIDE
   A. ALL PERSONNEL INVOLVED IN THE THE APPLICATION OF CHEMICALS ARE TO RECEIVE PROPER TRAINING AND FOLLOW THE OPERATING GUIDELINES PROVIDED BY THE DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES FOR CHEMICAL CONTROL. CONTACT THE LOCAL COUNTY AGRICULTURAL EXTENSION SERVICE FOR ADDITIONAL INFORMATION REGARDING HERBICIDE, PESTICIDE AND REQUIRED LICENSES.
   B. APPLICATION OF HERBICIDES SHALL BE DONE WITH EXTREME CAUTION AS TO PREVENT ANY POTENTIAL DAMAGE TO THE LANDSCAPE ELEMENTS.
   C. A MINIMUM OF ONE PRE-EMERGENT HERBICIDE APPLICATION WILL BE REQUIRED DURING MAINTENANCE PERIOD.
   D. ANY INVASIVE, EXOTIC SPECIES (PER FLORIDA EXOTIC PEST PLANT COUNCIL CAT. 1 & 2 LISTS) FOUND DURING THE MAINTENANCE PERIOD SHALL BE REMOVED.
   E. PROVIDE PLANT MATERIAL INSECT AND DISEASE CONTROL INSPECTIONS CONTINUALLY DURING THE (3) MONTH MAINTENANCE PERIOD AND TREAT AS NECESSARY.
4. PRUNING
   A. SELECTIVE PLANT PRUNING (HAND PRUNING, NOT SHEARING) SHALL BE THE PRIMARY METHOD OF SHAPE AND SIZE CONTROL AND SHALL BE PERFORMED AS NECESSARY ON ALL TREES AND SHRUBS TO ENSURE THE HEALTH AND VIGOR THROUGHOUT THE MAINTENANCE PERIOD.
   B. SPECIMEN SHRUBS MAY BE TIP PRUNED DURING THE GROWING SEASON (CUTS THROUGH SMALLER DIAMETER BRANCHES 1 YEAR OLD OR LESS) POLLARDING (ANNUAL REMOVAL OF ALL SPROUTS) AND TOPPING (REMOVAL OF LARGE DIAMETER WOOD) ARE NOT ACCEPTABLE PRUNING METHODS.
   C. NATIVE GRASSES SHALL BE CUT BACK IN EARLY MARCH AS NEEDED TO MAINTAIN A NEAT APPEARANCE.
5. MULCH
   INSTALLED MULCH SHALL BE MAINTAINED OF FRESH LONGLEAF OR SLASH PINESTRAW MULCH THROUGHOUT ALL PLANT BEDS AND TREE RING BEDS. SUPPLEMENT ALL MULCHING AS NECESSARY TO MAINTAIN A 4" COMPRESSED DEPTH THROUGHOUT THE MAINTENANCE PERIOD.
6. SPECIAL CARE REQUIREMENTS
   PROTECT ANY HARDSCAPE ELEMENTS DURING MAINTENANCE ACTIVITIES FROM DAMAGE. ENSURE AREAS ADJACENT TO MAINTENANCE ACTIVITIES ARE CLEANED AND SWEPT AFTER MAINTENANCE WORK IS ACCOMPLISHED AT EACH MAINTENANCE VISIT. USE APPROVED BMP'S FOR PROTECTION OF ALL INLETS FROM SEDIMENTATION AND DEBRIS.
7. PLANT/TREE REPLACEMENT
   A. TREES: ALL TREES SHALL BE FLORIDA #1 GRADE AT THE END OF THE (1) YEAR WARRANTY PERIOD. THE CONTRACTOR IS NOT EXPECTED TO REPLACE ANY GIVEN MATERIAL AT THEIR OWN EXPENSE MORE THAN TWICE.
   B. PRIOR TO ANY REPLACEMENTS BEYOND LIMIT, A FIELD REVIEW CAN BE CONDUCTED BY THE R.L.A. OR OWNER'S REPRESENTATIVE UPON REQUEST BY CONTRACTOR TO ASSESS CAUSE OF MORTALITY TO ANY PARTICULAR SPECIES THAT HAS REACHED ITS REPLACEMENT LIMIT.

LANDSCAPE NOTES & SPECIFICATIONS

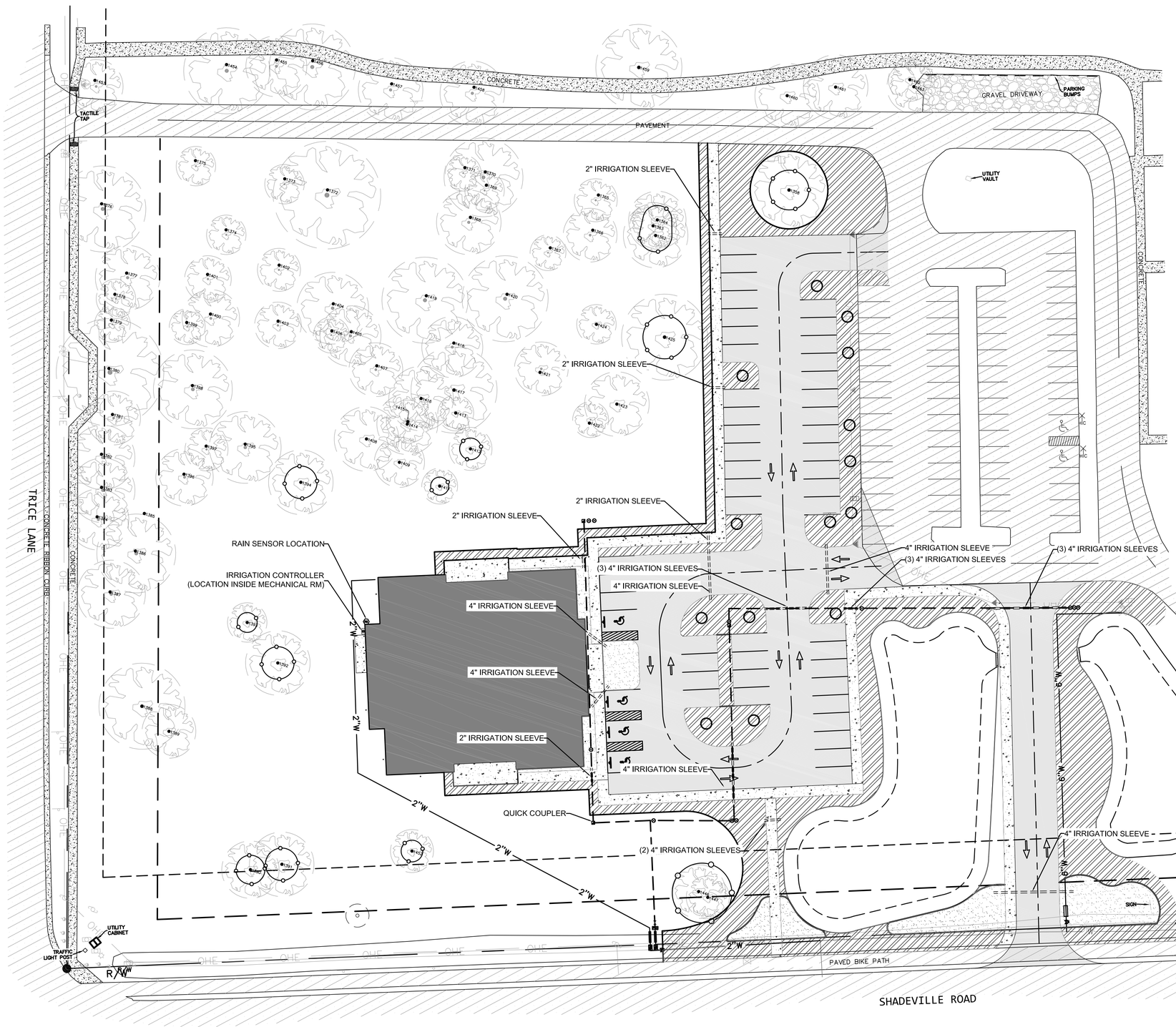
REVISIONS:

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CUSTOM LANDSCAPE DESIGNS
Residential and Commercial
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REGISTERED LANDSCAPE ARCHITECT
LAURIEL ALICIA HICKS-COONEY
LA 6667469
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SHEET: LS 1.1



LEGEND:

- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED ASPHALT
- PROPOSED LANDSCAPE ISLAND

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 inch = 30 feet

NORTH

MASTER IRRIGATION SCHEDULE

SYM	QTY	TYPE	DESCRIPTION
	3	Drip Zone	Hunter HDL-06-12-LK-PC Hunter Dripline w/ 0.6 GPH, emitters at 12" o.c. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern.
	8	Spray Zone	Hunter PROS-02 Adjustable 10'-15' Radius, Turf Spray, 6" Pop-up
	11	Hunter ICV-G Valve	1"-1-1/2" Plastic Electric Control Valve, Globe Configuration w/ NPT Threaded Inlet/Outlet for Commercial Use.
	3	Hunter HQ-3RC ¾"	Quick Coupler Valve, w/ ¾" NPT inlet, 1-piece body
	1	Buckner Superior Master Valve	Normally Closed Brass Master Valve, w/ no minimum flow feature. Size appropriately
C	1	Hunter IC-1800-PED	Modular Controller, Min. 18 Stations, Metal Pedestal Commercial Use. With two ICM-600 modules included.
RS	1	Hunter CLIK-DELAY	Mini-Clik rain sensor
POC	1	Point of Connection 2" Agriculture Tap with Meter	2" Irrigation Tap, Average 45 GPM, Provided by Owner
	TBD	Lateral Line	1 ½"-¾" PVC Pipe Class 200, size appropriately
	See Plan	Main Line	2"-1 ½" PVC SCH 40, size appropriately
	See Plan	Sleeve	4" PVC SCH 80

IRRIGATION PLAN

REVISIONS:

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SHEET TITLE	IRRIGATION PLAN
SHEET	IP 1

IRRIGATION NOTES AND SPECIFICATIONS:

1. SCOPE OF WORK:
THE WORK INCLUDED IN THESE SPECIFICATIONS SHALL CONSIST OF THE FURNISHING OF ALL LABOR, TOOLS, MATERIALS, APPLIANCES, TEST, PERMITS, ETC., NECESSARY FOR THE INSTALLATION OF AN AUTOMATIC CONTROL IRRIGATION SYSTEM:MASTER VALVE, MOUNTED CONTROLLER INSIDE MECHANICAL ROOM, DRIP TUBING AND ALL IRRIGATION COMPONENTS NECESSARY TO PROVIDE A 100% COVERAGE AUTOMATIC IRRIGATION SYSTEM. SOME IN SITU ADJUSTMENTS MAY BE REQUIRED.

2. VERIFICATION:
A. THE CONTRACTOR SHALL VERIFY AND BE FAMILIAR WITH ALL FEDERAL, STATE AND COUNTY CODES AND REQUIREMENTS
B. THE CONTRACTOR FINDING ANY DISCREPANCIES ON THE PLANS DURING BIDDING AND/OR PRIOR TO PROCEEDING WITH ANY WORK, SHALL NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE OF SUCH DISCREPANCIES. OTHERWISE THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR ANY AND ALL NECESSARY REVISIONS RELATED TO DISCREPANCIES.
C. ALL LOCAL, MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE IRRIGATION CONTRACTOR.
D. ALL WORK AND MATERIALS NECESSARY FOR AN 100% COVERAGE AUTOMATIC ELECTRIC CONTROL IRRIGATION SYSTEM, SHALL BE FURNISHED AND INSTALLED TO COVER ALL PROPOSED PLANT MATERIAL WHETHER OR NOT SPECIFICALLY MENTIONED IN THE PLANS, SPECIFICATIONS AND/OR DETAILS.

3. SITE CONDITIONS:
A. THE CONTRACTOR SHALL EXAMINE CAREFULLY THE SCOPE OF WORK, SITE CONTEMPLATED, THE LANDSCAPE AND IRRIGATION PLANS, OTHER REFERENCED SHEETS, SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS. IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INVESTIGATED AND IS SATISFIED AS TO THE CONDITIONS TO BE ENCOUNTERED AND SHALL PERFORM AND PROVIDE MATERIALS TO BE FURNISHED,

4. TRENCHING:
A. TRENCHES FOR PVC PLASTIC PIPE SHALL PROVIDE A MINIMUM EARTH COVER OF 18" ABOVE THE TOP OF THE PIPE FOR ALL MAINLINES. INSTALL MAINLINE WITH TRACER WIRE. INSTALL LATERAL LINES 12" DEEP. TRENCHING WITHIN THE CPZ AREAS OF EXISTING TREES SHALL BE AVOIDED. HAND DIGGING IS REQUIRED WITHIN THE CPZ'S OF THE EXISTING TREES.

5. RECORD DRAWINGS–IRRIGATION
AT SUBSTANTIAL COMPLETION PROVIDE THE OWNER WITH THE TEN SUBMITTAL ITEMS LISTED:

A. MANUFACTURER'S OPERATING AND MAINTENANCE INSTRUCTIONS.
B. PROJECT RECORD DRAWINGS OF THE SYSTEM, HARD COPIES AND CAD.
C. SCHEDULE SHOWING THE LENGTH OF TIME EACH VALVE IS TO BE OPEN TO PRODUCE A GIVEN AMOUNT OF PRECIPITATION PER SEASON.
D. SIX EXTRA SPRINKLER HEADS OF EACH SIZE AND TYPE, AND SIX SPRAYS AND NOZZLES OF EACH TYPE.
E. TWO VALVE KEYS FOR MANUAL VALVES.
F. WRENCH FOR EACH TYPE HEAD CORE.
G. WRENCH FOR REMOVING AND INSTALLING EACH TYPE HEAD.
H. TWO QUICK COUPLER KEYS IF REQUIRED
I. A PERMANENT IDENTIFICATION OF VALVE STATIONS AND AREAS IRRIGATED ON AN 8 ½"X11" CHART OF ZONES TO BE PLACED ON THE INSIDE DOOR OF THE IRRIGATION CONTROLLER. A REDUCTION PRINT OF THE OVERALL IRRIGATION PLAN SHALL BE LAMINATED AND PLACED INSIDE THE CONTROLLER BOX.
J. TWO VALVE KEYS FOR MAINLINE GATE VALVES WHEN MAINLINE GATE VALVES ARE REQUIRED PER PLANS; AND/OR TWO SETS OF KEYS FOR LOCKABLE VALVES COVERS AND ENCLOSURES.

6. PRESSURE TESTING:
A. ALL MAINLINES IN THE SYSTEM SHALL BE CAPPED AND PRESSURE TESTED BEFORE ANY CONCEALED COMPONENTS ARE COVERED OVER. ALL VALVES AND OTHER CONNECTIONS ARE TO BE CLOSED DURING THE TEST. THE MAINLINES SHALL BE TESTED FOR SIX (6) HOURS. TESTING SHALL BE OBSERVED BY OWNERS REPRESENTATIVE.

B. AFTER LANDSCAPE INSTALLATION, BUT PRIOR TO SURFACE MULCHING, LATERAL LINES AND DRIP TUBING SHALL BE TESTED IN THE PRESENCE OF OWNERS REP. TO BE OPERATIONAL AS INTENDED.

C. THE CONTRACTOR SHALL NOT ALLOW NOR CAUSE ANY OF HIS WORK TO BE COVERED OR ENCLOSED UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE OWNER'S REPRESENTATIVE.

COVERAGE TEST:
A. WHEN THE SPRINKLER SYSTEM IS COMPLETED, THE CONTRACTOR, IN THE PRESENCE OF THE OWNER'S AUTHORIZED REPRESENTATIVE, SHALL PERFORM A TEST COVERAGE OF WATER AFFORDED TO THE LAWN AND PLANTING AREAS COMPLETE AND ADEQUATE. UNDER NO CIRCUMSTANCES SHOULD OVERSPRAY OCCUR ON ANY PAVED SURFACE. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK REQUIRED TO CORRECT ANY INADEQUACIES OF COVERAGE AT HIS OWN COST. SEE PERFORMANCE STANDARDS BELOW.
B. CONTRACTOR TO ENSURE SEPARATION OF ZONES (TURF, TREES, SHRUBS, GROUNDCOVERS, PALMS) AS DESCRIBED IN THE SPECIFICATIONS AND ILLUSTRATED IN THESE PLANS.

IRRIGATION CONTROLLER:
A. THE CONTROLLER LOCATION SHOWN ON PLANS IS AN APPROXIMATE LOCATION. COORDINATE THE SPECIFIC LOCATION WITH SITE AND/OR ELECTRICAL CONTRACTOR AND TASK SEQUENCING FOR NEW POWER SOURCE AND IRRIGATION WELL CONNECTION.
C. A 240 VOLT SERVICE AND HOOK–UP FOR CONTROLLER WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR WHO SHALL INSTALL AN ELECTRICAL CONDUIT STUB–OUT AND PULL WIRE AND HAVE THEM CLEARLY MARKED.
D. CONTROLLER MOUNTING, GROUNDING, AND WIRING SHALL BE INSPECTED BY LANDSCAPE ARCHITECT PRIOR TO FINAL ACCEPTANCE. CONTACT LANDSCAPE ARCHITECT 48 HOURS PRIOR TO INSPECTION.

VALVE PITS:
A. VALVE PITS OR BOXES MUST PROVIDE AMPLE ROOM FOR HAND WORK AROUND SIDES AND EDGES, AND MUST BE SECURELY PROTECTED FROM SAND/SOIL SEDIMENTATION WITHIN VALVE PIT. SECURE WITH DUCT TAPE AND 6 MIL FILTER CLOTH. USE A MIN 6" LAYER OF PEA GRAVEL UNDER THE VALVE WITH A MIN 2" CLEARANCE UNDER THE VALVE BUT ABOVE THE PEA GRAVEL. ALL SHALL BE ENCLOSED WITH THE FILTER FABRIC. COMPACT SOIL IMMEDIATELY AROUND THE VALVE PITS TO FIRM AND UNYEILDING TO THE DEPTH OF THE FILTER CLOTH. A MIN 15" DIA VALVE PIT SHALL BE TYPICAL FOR (1) VALVE. DO NOT CROWD VALVES IF INSTALLED IN RECTANGULAR VALVE BOXES.

VALVE CONTROL WIRE:
A. ALL COMMON GROUND WIRE SHALL BE WHITE #14 COPPER MIN. SPARE COMMON (MAIN) WIRE SHALL BE BLUE COLORED.
B. RED SHALL BE USED ON POSITIVE WIRE FOR EACH VALVE.
C. FOR WIRE SIZE REFER TO THE MANUFACTURER'S CHART.
D. NO WIRES ARE TO BE SPLICED BETWEEN VALVE AND CONTROLLER EXCEPT AT VALVE LOCATIONS.
E. ALL VALVE HOOK–UPS SHALL BE DBY 3M WATERPROOF CONNECTORS.
F. INSTALL MINIMUM ONE EXTRA COMMON WHITE AND TWO EXTRA YELLOW VALVE WIRES TO EACH RUN TO VALVE GROUPINGS. PROVIDE MIN. 24–30" COILS EXTRA WIRING FOR EACH VALVE, INCLUDING EXTRA WIRES, IN NEATLY FORMED COILS. FIT WITHIN THE VALVE BOXES.

VALVE TAGS:
A. DURABLE, YELLOW PLASTIC, IRRIGATION VALVE TAGS ARE REQUIRED FOR ALL ELECTRIC SOLENOID VALVE PIT COVERS, WITH IDENTIFICATION AND MAINLINE BALL VALVE SHUT–OFF PIT COVERS.

B. 1.50" ENGRAVED PLASTIC TAGS, UV STABLE, 1/16" THICK MIN. 3 LINES TEXT, MIN. ONE SIDE. SECURE WITH ADD–PEEL AND STICK LABEL, OR HOLE AND NO. 14. MIN. GAGE WIRE. Source: JHarbold@graphicproducts.com

C. QUICK COUPLRT VALVES SHALL BE CLEARLY INDICATED ON AS–BUILT DRAWINGS BY CONTRACTOR AS FOLLOWS QCV–#

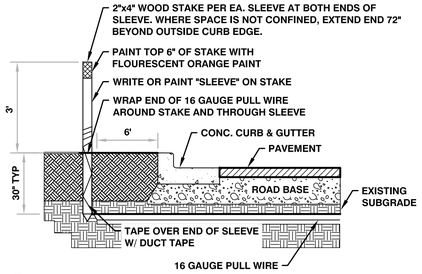
CLEAN–UP:
A. UPON THE COMPLETION OF ALL IRRIGATION WORK, AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL MATERIAL, EQUIPMENT, AND DEBRIS RESULTING FROM HIS WORK. ALL PAVED AREAS SHALL BE BROOM CLEANED AND THE SITE LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE.

PAVEMENT SLEEVING–CROSSINGS:
A. REFER TO IRRIGATION PLANS FOR LOCATIONS OF SCHEDULE 40 PVC SLEEVING LOCATIONS AND COORDINATE WITH WITH OWNER OR OWNER'S REPRESENTATIVE TO ENSURE STUB–OUTS ARE SECURED IF PERFORMED BY SITE CONTRACTOR OR OTHERS.

WORK TO BE PROVIDED BY OWNER:
A. COORDINATE WITH SITE AND ELECTRICAL CONTRACTOR IN RESPONSE TO REQUESTS FOR APPROVALS OF LOCATIONS OF MAJOR COMPONENTS SUCH AS ELECTRICAL SERVICE AND P.O.C. LOCATION AND SLEEVING LOCATIONS.
B. 4" IRRIGATION WELL WITH SUBMERSIBLE PUMP AND VFD FOR 45GPM MIN.
C. SLEEVING SCOPE SHALL BE ASSUMED BY SITE CONTRACTOR.
D. COORDINATE/APPROVE SEQUENCING OF MAJOR PROJECT TASKS IN RESPONSE TO REQUESTS BY CONTRACTOR.
E. PROVIDE AND COORDINATE WITH POWER COMPANY FOR LOCATIONS FOR ELECTRICAL SERVICE TO PROPOSED IRRIGATION CONTROLLER.

ADDITIONAL IRRIGATION NOTES:

1. SCHEMATIC MAINLINE AND LATERAL PIPE ROUTING IS DEPICTED FOR CLARITY ON DRAWING. IF PIPING IS SHOWN WITHIN PAVEMENT AREAS, IT IS FOR GRAPHIC CLARITY ONLY AND SHOULD UNDER NO CIRCUMSTANCES BE RAN BENEATH PAVEMENT UNLESS INDICATED AS A SLEEVE.
2. PIPING THAT IS SHOWN TO RUN UNDER PAVEMENT, WILL BE ROUTED THROUGH SCH 80 PVC SLEEVES. IF TWO OR MORE PIPES ARE RUNNING WITHIN ONE SLEEVE, THE SLEEVE SIZE MUST BE A MIN. 6" SLEEVE. IF ONLY 1 LATERAL LINE IS RUNNING THROUGH A SLEEVE, THE SLEEVE MAY BE REDUCED. THE MINIMUM INSIDE DIAMETER OF SCH 80 SLEEVING SHALL BE 2 X'S THE DIAMETER OF THE ACTUAL PIPING ROUTED THROUGH THE SLEEVE OR PROVIDE EQUIVALENT DIAMETER SPARE SLEEVE, ONE FOR EVERY CROSSING.
3. SITE IRRIGATION SYSTEM REQUIRES A MIN. DELIVERY OF 45 GPM AT 65 MIN. PSI PRESSURE DOWNSTREAM FROM ZONE VALVES.
4. PROVIDE TRACER WIRE WITHIN MAINLINE TRENCH OR TAPE WIRE TO ALL MAINLINE PIPING, AND INSTALL TYPICALLY 18–24" DEEP.
5. ALL IRRIGATION WIRE SHALL BE ROUTED THROUGH A 4" MIN SCH 40 PVC SLEEVE WHEN BURIED BENEATH PAVEMENT. WIRE SHALL NOT BE PLACED IN SAME PIPE WITH WATER ALTHOUGH BOTH WATER AND WIRE SLEEVING MAY BE RAN IN THE SAME TRENCH.
6. ALL IRRIGATION WIRE SHALL BE INDIVIDUALLY SHEATHED AS NEEDED TO PROVIDE MIN. VOLTAGE TO VALVES. ALL ELECTRICAL CONTROL WIRE AND COMMON WIRE SHALL BE IRRIGATION CONTROL CABLE OF MINIMUM SIZE OF #14 AND AS REQUIRED BY RUN DISTANCE. SEE SPECIFICATIONS FOR COLOR DESIGNATION.
7. ALL WIRE CONNECTIONS AT REMOTE CONTROL VALVES, WHETHER DIRECT BURIED OR IN CONTROL BOXES, AND AT ALL WIRE SPLICES SHALL BE LEFT WITH SUFFICIENT "SLACK" SO THAT IN CASE OF REPAIR THE VALVE BONNET OR SPLICE MAY BE BROUGHT TO THE SURFACE WITHOUT DISCONNECTING THE WIRES (24" MIN.)
8. NO SPLICES SHALL OCCUR BETWEEN THE CONTROLLER AND THE REMOVE CONTROL VALVE. IF OUTSTANDING CIRCUMSTANCES OCCUR THAT REQUIRE WIRE SPLICES THE CONTRACTOR SHALL FIRST SEND WRITTEN NOTIFICATION TO LANDSCAPE ARCHITECT FOR APPROVAL. CONTRACTOR SHALL MAKE ALL SPLICES INSIDE A VALVE BOX WITH ADEQUATE SLACK AT THE ENDS OF THE WIRE RUN.
9. CONTRACTOR TO USE DIRECT BURIAL WIRE SPLICE: DRI SPLICE (DS–100, DS–300 OR DS–400), 3M (DBY OR DBR) OR APPROVED EQUAL.
10. ALL ELECTRIC CONTROL VALVES, UNLESS OTHERWISE INDICATED SHALL BE INSTALLED IN SUITABLE PLASTIC OR OTHER TYPE VALVE ACCESS BOX OF PROPER SIZE AND COMMERCIAL GRADE AS REQUIRED FOR EASY ACCESS TO THE VALVE. ACCESS BOXES SHALL BE COMPLETE WITH PLASTIC OR OTHER APPROVED TYPE LOCKING COVER. KEYS SHALL BE PROVIDED FOR THE NON–RUSTING LOCKING COVERS. VALVE BOXES SHALL BE CARSON OR APPROVED EQUAL. CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID PLACING VALVE BOXES IN TURF AREAS. IF, FOR PROPER OPERATION OF IRRIGATION SYSTEM, IT IS FOUND TO BE IMPOSSIBLE NOT TO PLACE VALVE BOXES IN TURF, THOSE VALVE BOXES SHALL BE FOREST GREEN IN COLOR.
11. CONTROLLER DESIGNATION SHALL BE CLEARLY AND NEATLY ETCHED INTO THE TOP OF VALVE BOX LID AND TAGGED AT EACH VALVE. ALL VALVE ACCESS BOXES SHALL BE PROVIDED WITH PROPER LENGTH AND SIZE EXTENSIONS, WHEREVER REQUIRED, TO BRING THE VALVE BOXES LEVEL WITH THE FINISH GRADE IF IN TURF AREAS, AND 2" ABOVE FINISH GRADE IN MULCH AREAS.
12. IRRIGATION DESIGN IS A SCHEMATIC REPRESENTATION OF BEST INTENT TO DELIVER WATER TO LANDSCAPE PLANTINGS AND LAWN AND DOES NOT SHOW ALL FITTINGS AND SMALL COMPONENTS NEEDED.



NOTE:
ALL SLEEVES TO EXTEND A MIN. 24" BEYOND BACK OF CURB ON EACH END.

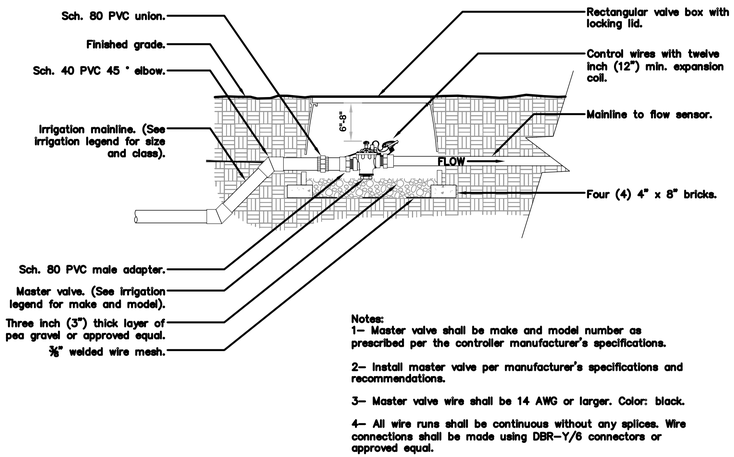
NO 90° OR 45° COUPLINGS TO BE USED ON SLEEVES

SLEEVES MUST BE STRAIGHT TO ALLOW PIPE TO BE INSERTED BY IRRIGATION CONTRACTOR.

SLEEVES NOT INSTALLED AT PROPER DEPTH WILL BE REINSTALLED TO CONFORM TO DETAIL

CONTRACTOR TO VERIFY SLEEVE INTEGRITY PRIOR TO FINAL PAVING.

1 IRRIGATION SLEEVING DETAIL
NOT TO SCALE



Notes:
1– Master valve shall be make and model number as prescribed per the controller manufacturer's specifications.

2– Install master valve per manufacturer's specifications and recommendations.

3– Master valve wire shall be 14 AWG or larger. Color: black.

4– All wire runs shall be continuous without any splices. Wire connections shall be made using DBR–Y/6 connectors or approved equal.

5– Wrap valve box with min. 3 mil. thick plastic and secure it to the valve box using duct tape or electrical tape.

6– See master valve/ flow sensor detail for linear dimensions (pipe sizes) not to use

7– Valve boxes shall be located in planting areas.

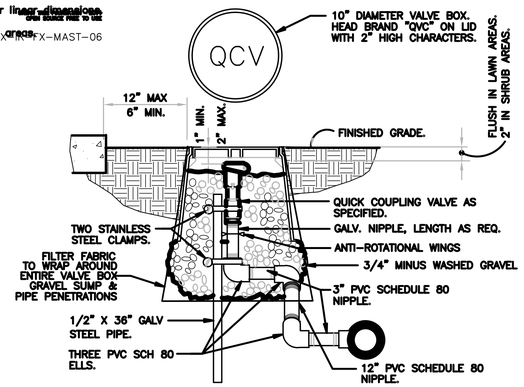
2 MASTER VALVE
1" = 1'–0"
FX–IR–FX–MAST–06

13. IT IS INTENDED THAT THE SYSTEM SHALL BE A COMPLETE AUTOMATIC OPERATIVE SYSTEM GIVING 100% UNIFORM HEAD TO HEAD COVERAGE TO ALL PLANT MATERIAL. WATER APPLICATION DEVICES IN EACH VALVE ZONE SHALL HAVE MATCHED PRECIPITATION RATES.
14. PLASTIC PIPE SHALL BE RIGID, UN–PLASTICIZED PVC–TYPE 1, 1120 SCHEDULE 40, EXTRUDED FROM VIRGIN PARENT MATERIAL OF THE TYPE SPECIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS. PROTECT ALL PIPE ENDS. STORE ALL MATERIALS OFF THE GROUND AND UNDER COVER WHEN ANTICIPATED LONG–TERM EXPOSURE IS EXPECTED.

FOLLOW THESE IRRIGATION PIPE SIZING GUIDELINES FOR ALL PIPING AND PIPING FITTINGS FOR PVC AND DO NOT EXCEED:

1/2" PIPE (.5)	4 GPM
3/4"(.75)	8 GPM
1" (1)	12 GPM
1 1/4"(1.25)	22 GPM
1 1/2"(1.5)	31 GPM
2" (2)	50 GPM
2 1/2"	65 GPM
3"	100 GPM

15. THESE PIPE SIZES DO NOT STRICTLY APPLY TO VALVE SIZES AND DIRECT VALVE ADAPTORS–CONNECTORS, BUT SHALL APPLY IN GENERAL TO ALL FITTINGS CONVEYING ABOVE VOLUMES AND ALL RUNS OF PIPE.
16. THRUST BLOCKS NOT ANTICIPATED TO BE NEEDED FOR 2 1/2 " OR 3" PIPE IF FITTINGS ARE USED AND VOLUMES UNDER 65–70 GPM.



3 QUICK COUPLING VALVE IN BOX
1 1/2" = 1'–0"
FX–IR–FX–QUIC–03

IRRIGATION DETAILS & SPECIFICATIONS

REVISIONS:

Designs by Alicia
CUSTOM LANDSCAPE DESIGNS
Residential and Commercial
850-508-9805

REGISTERED LANDSCAPE ARCHITECT
LAURIEL ALICIA HICKS-COOK
LA 6667469
STATE OF FLORIDA

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318 SHADEVILLE ROAD
CRAWFORDVILLE, FLORIDA

SCALE: 1"=30'
DATE: 07/25/25
FILE NAME: 2025_HydraEng__WakullaLibrary__Landsc.Plan.dwg
DRAWN BY: A.H.C.
DESIGNED BY: A.H.C.
SHEET TITLE: IRRIGATION DETAILS & SPECIFICATIONS
SHEET: IP 2



ARCHITECTURAL SITE PLAN

Scale: 1" = 30'-0"

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Phase	Date	Drw	Chk
100% CONSTRUCTION DOCUMENTS	07/21/25	LKD	BY
DESIGN DEVELOPMENT	04/29/25	LKD	BY
SCHEMATIC DESIGN	03/25/25	LKD	BY
-	-		
-	-		
-	-		

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

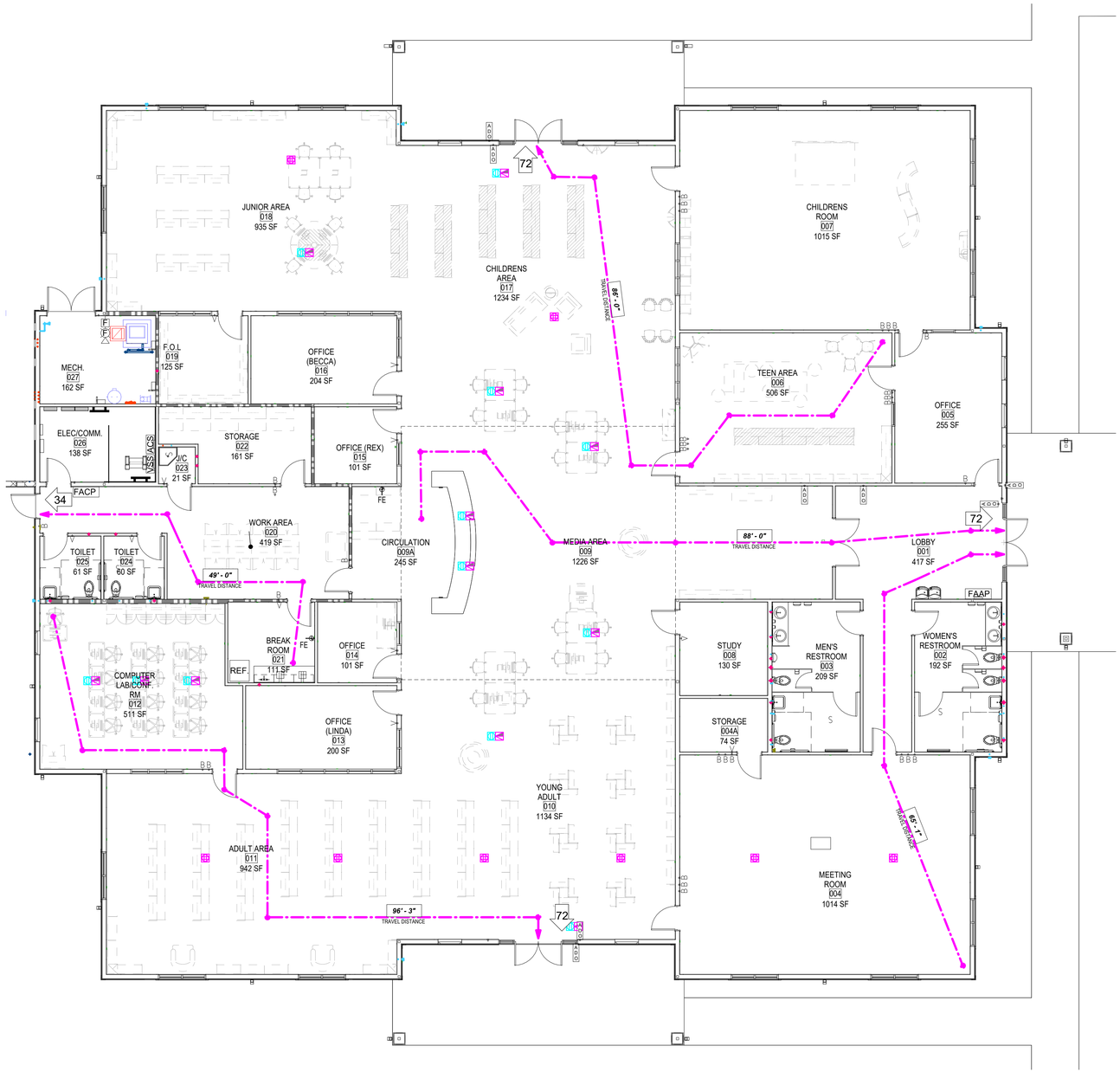
SHEET TITLE

ARCHITECTURAL SITE PLAN

AS1.0

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8/1/2025 12:10:14 AM



North

LIFE SAFETY PLAN

Scale: 1/8" = 1'-0"

LIFE SAFETY EXIT CALCULATIONS

OCCUPANCY	OCCUPANT LOAD PER FBC TABLE 1004.5 AND NFPA 101 TABLE					EXIT CAPACITY REQUIRED (MINIMUM WIDTH IN INCHES)	EXIT CAPACITY PROVIDED (IN INCHES)
	BUSINESS 150 SF	LIBRARY STACKS 100 SF	LIBRARY READING RM 50 SF	ASSEMBLY UNCONCENTRATED 15 SF	ACCESSORY STORAGE 300 GSF	LEVEL NONSPRINKLERED 0.5	LEVEL NONSPRINKLERED
BUSINESS	14					7	
STACKS		55				28	
READING ROOMS			40			20	
ASSEMBLY (MTG. RM)				67		34	
TOTAL OCCUPANT LOAD:							
TOTAL EXIT CAPACITY REQUIRED:						**89**	
TOTAL EXIT WIDTH PROVIDED:							**250**

FIRE PROTECTION NOTES

1. SEE COVER SHEET FOR BUILDING CONSTRUCTION INFORMATION

2. ALL FIRE AND/OR SMOKE PARTITIONS SHALL BE EFFECTIVELY AND PERMANENTLY INDENTIFIED WITH STENCILING ABOVE AND DECORATIVE CEILING AND/OR IN CONCEALED SPACES. WITH LETTERS A MINIMUM OF TWO (2) INCHES HIGH ON A CONTRASTING BACKGROUND SPACED A MAXIMUM OF TWELVE (12) FEET ON CENTER WITH A MINIMUM OF ONE PER WALL OR BARRIER. THE HOURLY FIRE RATING SHALL BE INCLUDED ON ALL RATED BARRIER OR WALLS. REQUIRED WORDING (_) HOUR FIRE AND SMOKE PARTITION- PROTECT ALL OPENINGS.

LIFE SAFETY LEGEND

- 1 HOUR RATED PARTITION
- 1 HOUR RATED/ SMOKE PARTITION
- SMOKE PARTITION
- 36 — EGRESS WIDTH AND DIRECTION
- EXIT LIGHT & DIRECTION
- FX — FIRE ALARM HORN
- FACP — FIRE ALARM CONTROL PANEL
- FIRE EXTINGUISHER CABINET (F.E.C.)
- FIRE EXTINGUISHER-WALL MOUNTED (F.E.C.)
- TRAVEL PATH END
- TRAVEL PATH BEGIN
- 125'-6 1/2" — TRAVEL DISTANCE
- SMOKE DETECTOR
- F — VISUAL SIGNALING DEVICE
- F — VISUAL SIGNALING DEVICE
- FIRE ALARM DOOR OPENING DEVICE
- EMERGENCY LIGHTING

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Gregory Westmoreland Kelley
AR0016706

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-	-		

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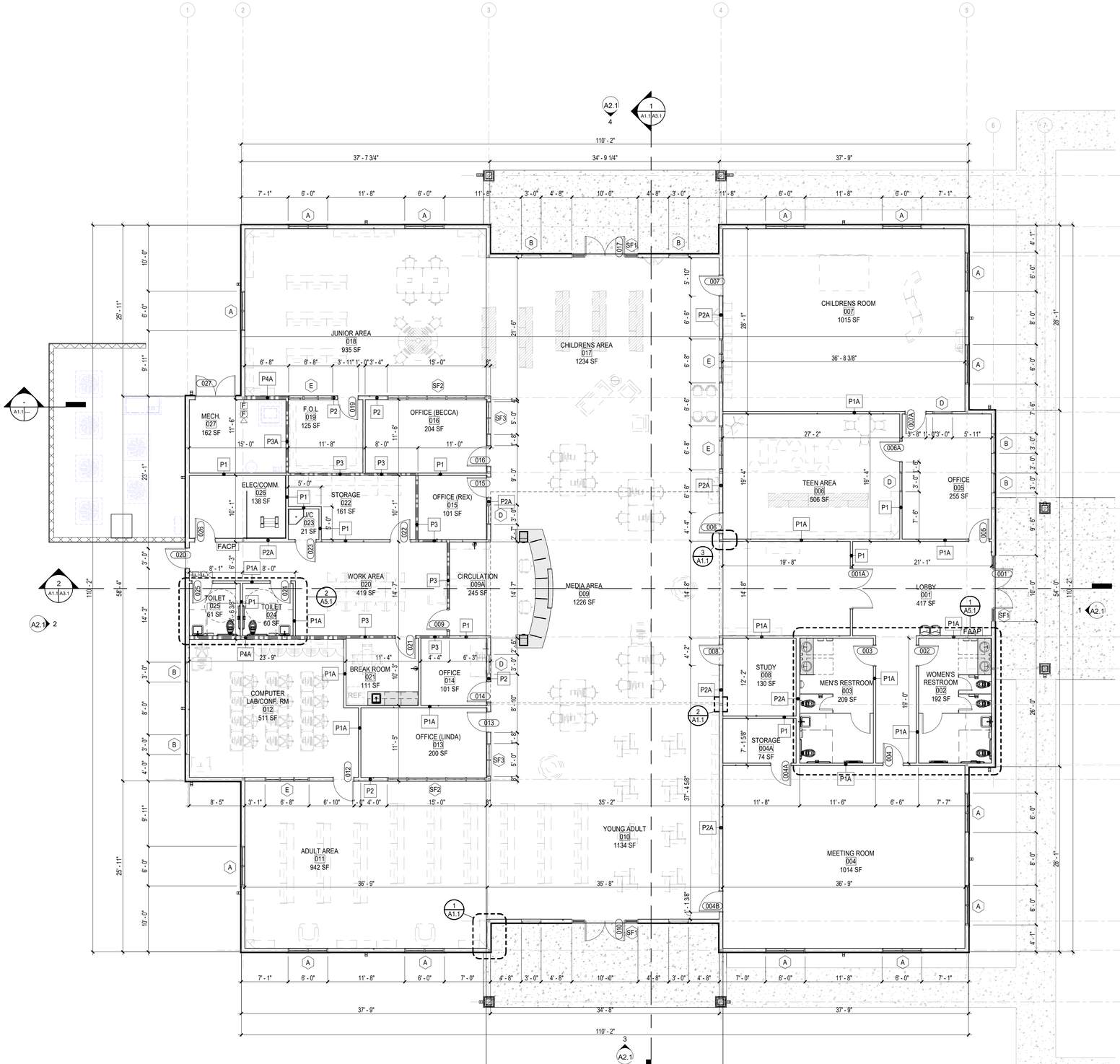
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LIFE SAFETY PLAN

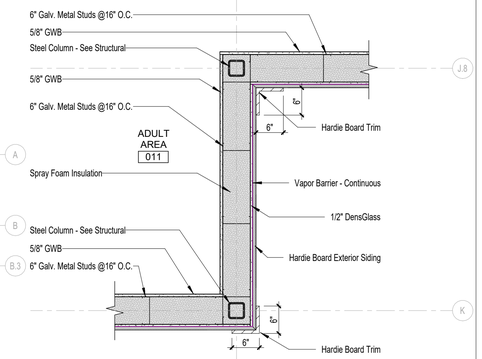
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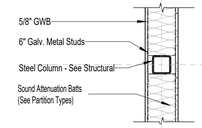
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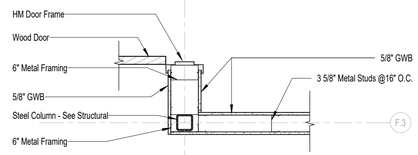
FLOOR PLAN
Scale: 1/8" = 1'-0"



Wall Detail-A
Scale: 3/4" = 1'-0"



Wall Detail-B
Scale: 3/4" = 1'-0"



Wall Detail-C
Scale: 3/4" = 1'-0"

Legend

- 1 Hour Rated Partition
- 1 Hour/Smoke Rated Partition
- Smoke Partition
- P14 — Partition Type Tag
- New Door
- Room name / 101 / 150 S.F. — Room Tag: Room Name, Room Number
- 101 / C ACT / W PT-5 / B VINYL / F VCT / Name — Finish Tag: Ceiling Type, Wall Finish, Base Type, Floor Covering
- 1 R A5.1 SIM — Section Number, Sheet Shown, Sheet Taken From
- P225A — Door Symbol
- SF1 — Storefront Symbol
- 1 — Window Symbol
- Casework
- Furnishings by Owner (Reference Only)
- 1 — Revision Symbol
- 24 — Equipment Flag
- Direction, Sheet Shown, Elevation Number- on Sheet, Elevation Letter- Found in the Name of Detail
- 24 — Structural Grid & Column
- TA-1 — Toilet Accessory

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AR0016706

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SCHEMATIC DESIGN	03/25/25	LKD	BY
-	-		
-	-		
-	-		

Revision

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CRA Project # **24071**

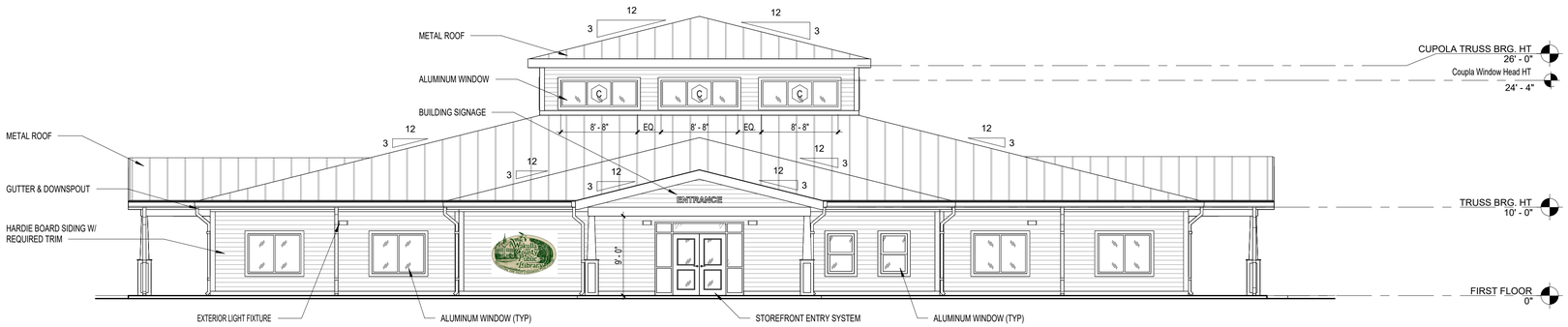
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SHEET TITLE
FLOOR PLAN

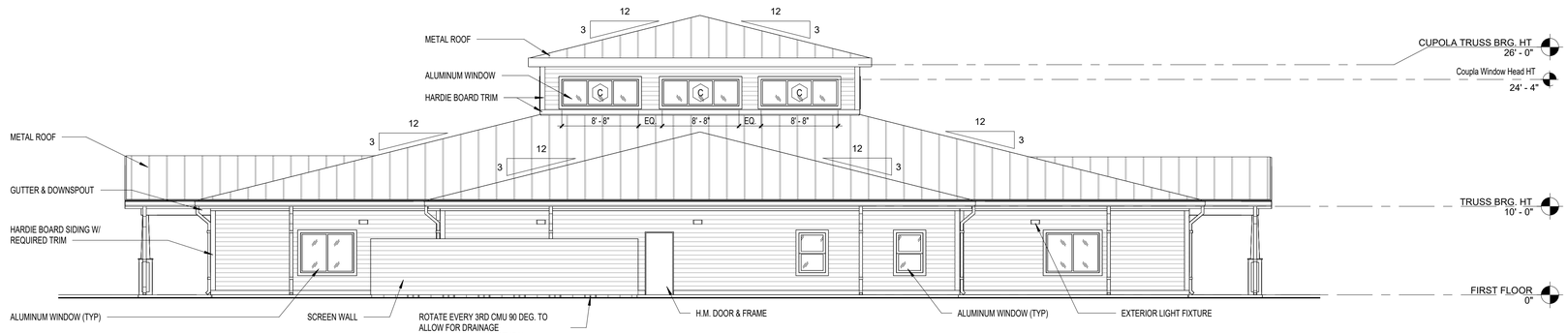
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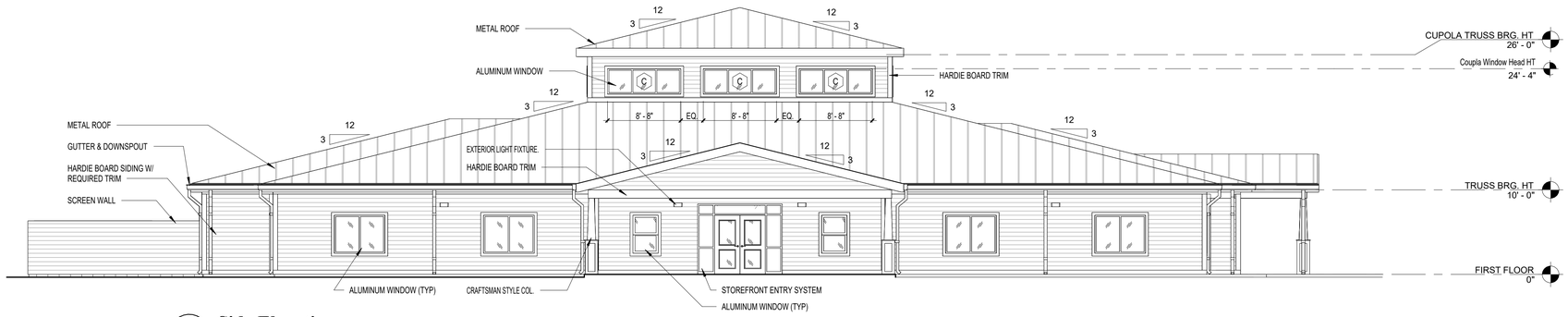
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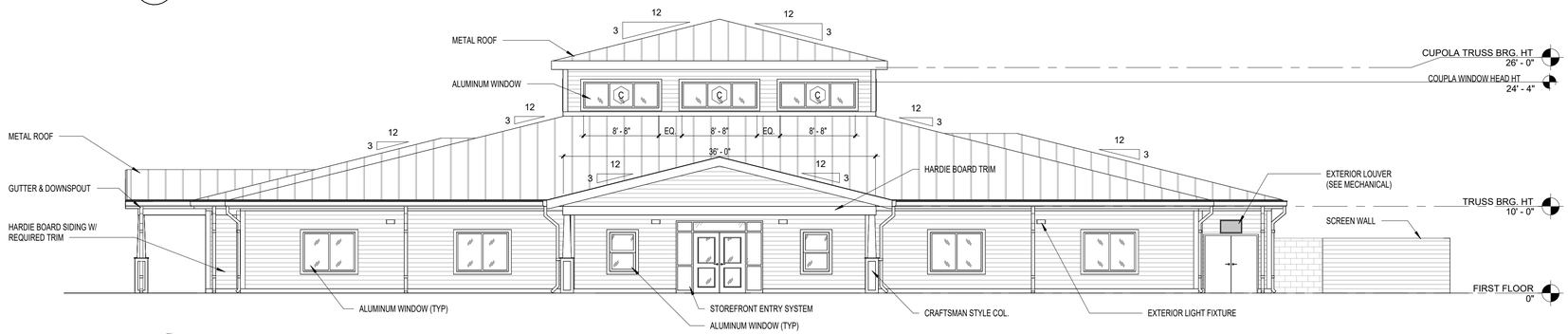
1 A2.1 **Front Elevation**
Scale: 1/8" = 1'-0"



2 A2.1 **Rear Elevation - (TRICE LANE)**
Scale: 1/8" = 1'-0"



3 A2.1 **Side Elevation- (SHADEVILLE ROAD)**
Scale: 1/8" = 1'-0"



4 A2.1 **Side Elevation**
Scale: 1/8" = 1'-0"

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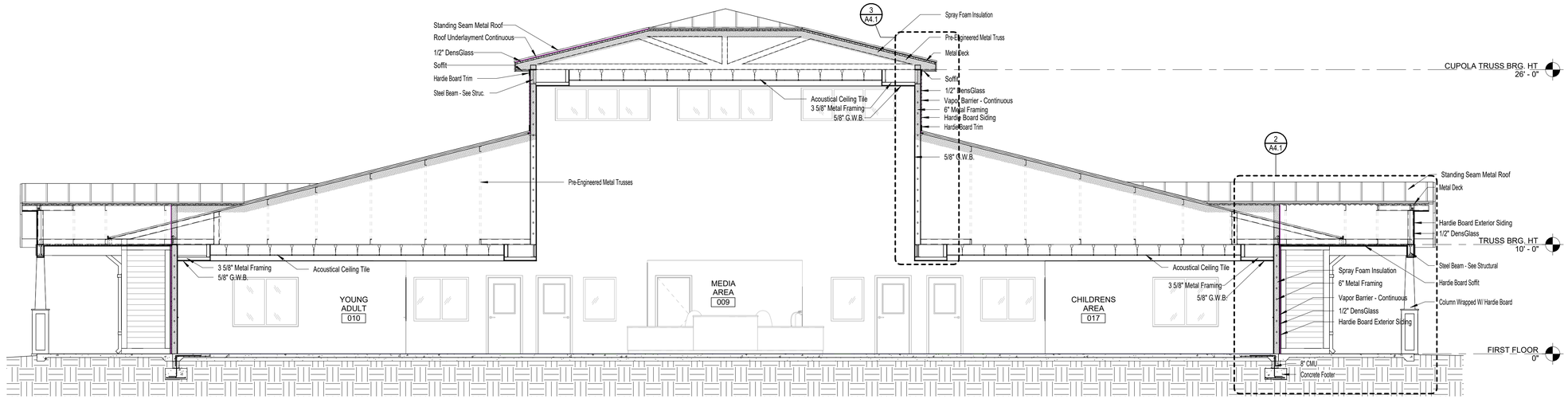
CRA Project # **24071**

Phase: **100% CONSTRUCTION DOCUMENTS**

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BUILDING ELEVATIONS

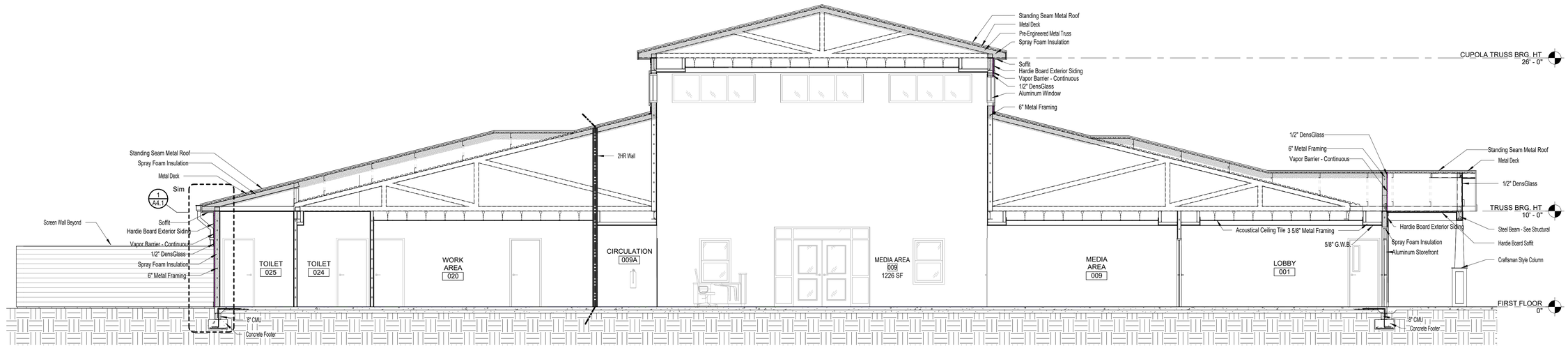
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1 A3.1 **BUILDING SECTION-A**

Scale: 3/16" = 1'-0"



2 A3.1 **BUILDING SECTION**

Scale: 3/16" = 1'-0"

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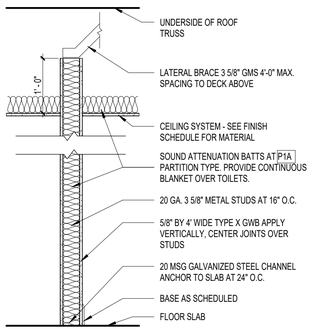
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BUILDING SECTIONS

A3.1

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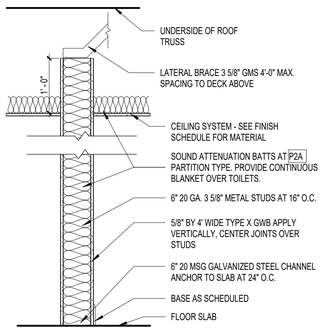
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P1 GWB PARTITION

3-5/8" METAL STUDS AT 16" O.C.

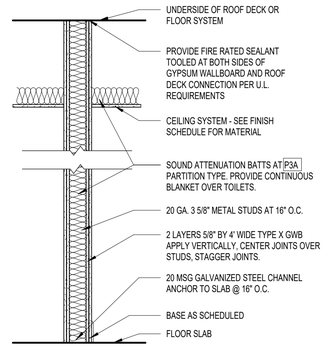
P1A PROVIDE S.A.B. WITHIN WALL AND AT CEILING



P2 GWB 6" PARTITION

6" METAL STUDS AT 16" O.C.

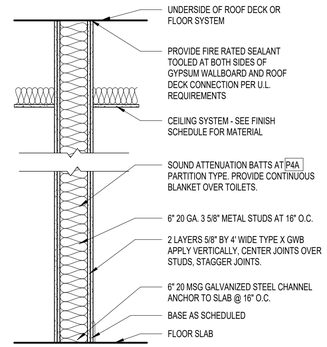
P2A PROVIDE S.A.B. WITHIN WALL AND AT CEILING



P3 TWO HOUR FIRE RATED PARTITION - UL #U419

3-5/8" METAL STUDS AT 16" O.C. EXTEND TO DECK; 2 HR FIRE RATED

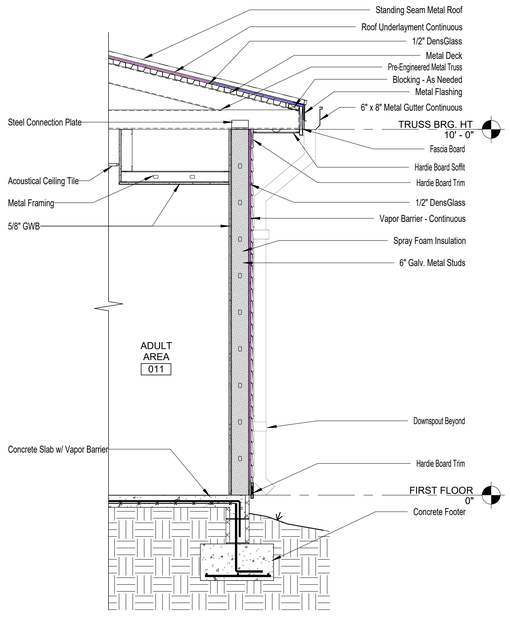
P3A PROVIDE S.A.B. WITHIN WALL AND AT CEILING



P4 TWO HOUR FIRE RATED PARTITION 6" - UL #U419

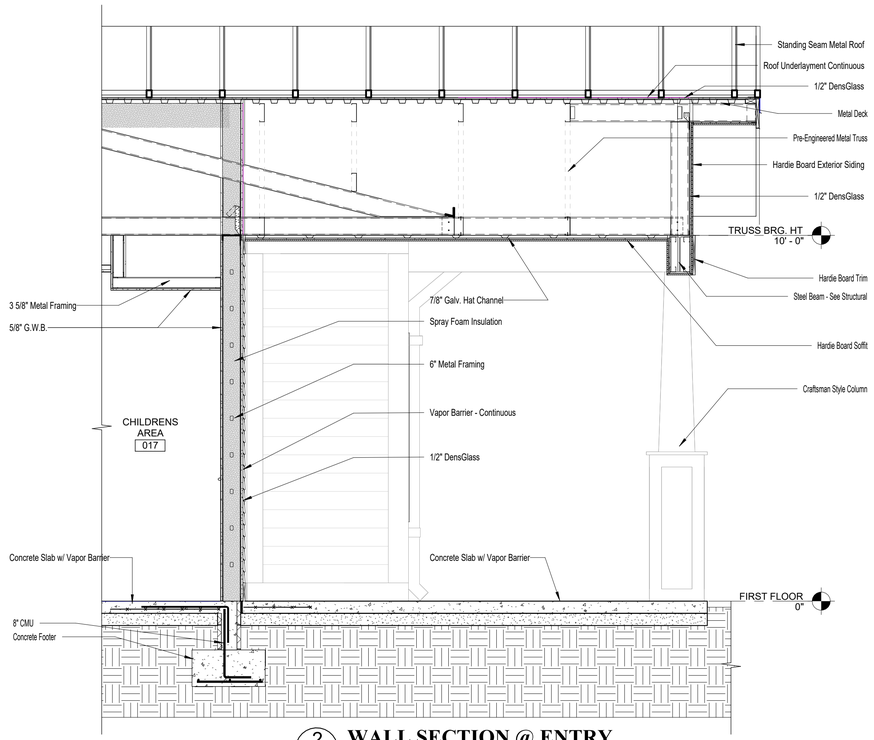
6" METAL STUDS AT 16" O.C. EXTEND TO DECK; 2 HR FIRE RATED

P4A PROVIDE S.A.B. WITHIN WALL AND AT CEILING



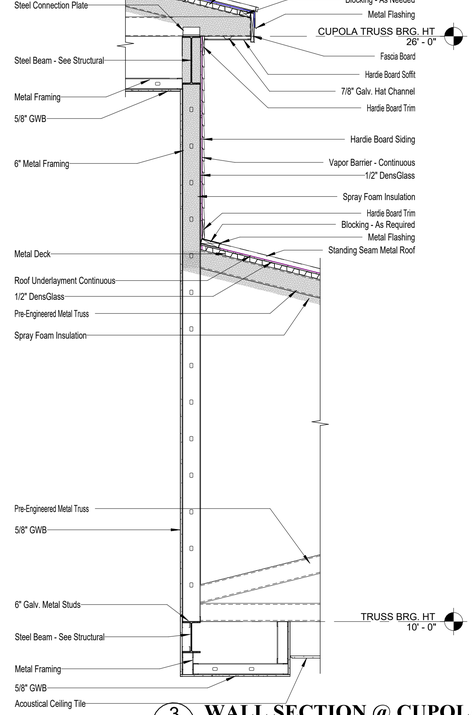
1 A4.1 **TYPICAL WALL SECTION**

Scale: 1/2" = 1'-0"



2 A4.1 **WALL SECTION @ ENTRY**

Scale: 1/2" = 1'-0"



3 A4.1 **WALL SECTION @ CUPOLA**

Scale: 1/2" = 1'-0"

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AR0016706

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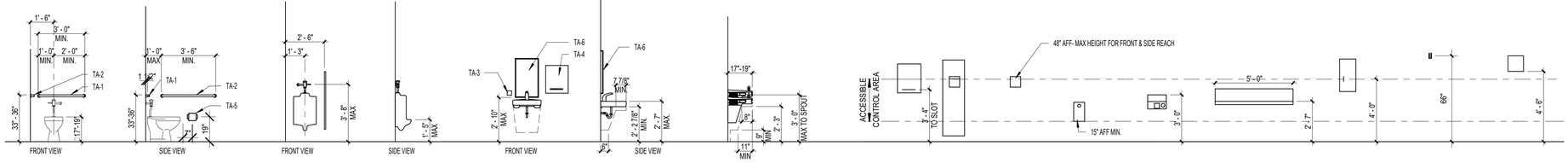
SHEET TITLE

WALL PARTITIONS & WALL SECTIONS

A4.1

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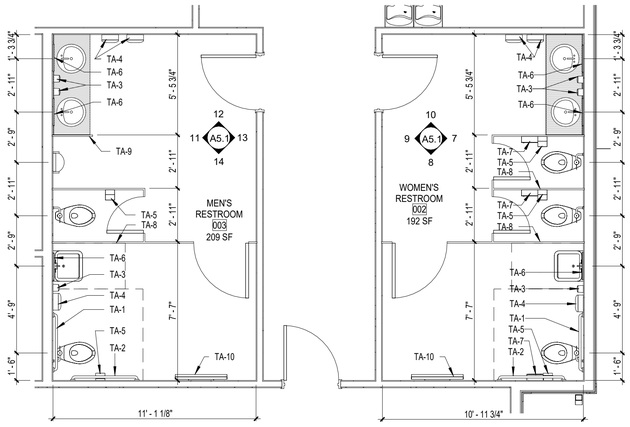
FLOOR MOUNTED WATER CLOSET (H.C.) | URINAL (H.C.) | WALL MOUNTED LAVATORY (H.C.) | WATER COOLER (H.C.) | TOWEL/WASTE RECEPTACLE UNIT | SOAP DISPENSER | SANITARY DISPOSAL | AIR HAND DRYER | CHANGING TABLE (ESE RMS.) | F.E.C. | ROBE/TOWEL HOOK | INTERIOR SIGNAGE

TOILET ACCESSORY SCHEDULE

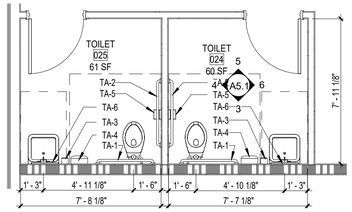
TA-1	36" Grab Bar
TA-2	42" Grab Bar
TA-3	SURFACE MOUNTED SOAP DISPENSER
TA-4	SURFACE MOUNTED PAPER DISPENSER WITH TRASH RECEPTACLE
TA-5	SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER
TA-6	FIXED MIRROR (18" X 30")
TA-7	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
TA-8	FLOOR / WALL HUNG TOILET PARTITION
TA-9	FLOOR / WALL HUNG URINAL SCREEN
TA-10	HORIZONTAL CHANGING TABLE

NOTES:
1. TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND INSTALLED - UNLESS OTHERWISE NOTED.
2. PROVIDE BLOCKING FOR ALL TOILET ACCESSORIES.
3. SEE SHEET A6.2 FOR MILLWORK DETAILS.

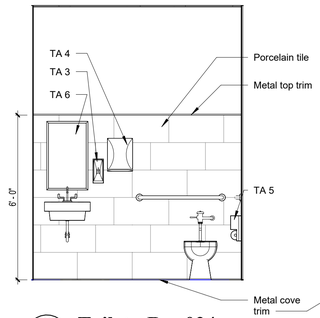
TYPICAL MOUNTING HEIGHTS



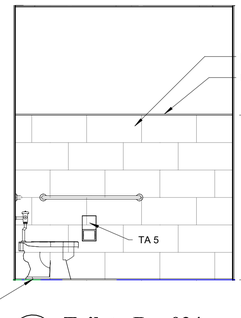
1 A5.1 **ENLARGED TOILET ROOM**
Scale: 1/4" = 1'-0"



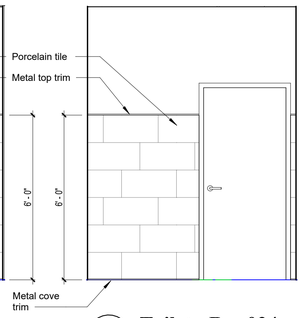
2 A5.1 **ENLARGED TOILET ROOM**
Scale: 1/4" = 1'-0"



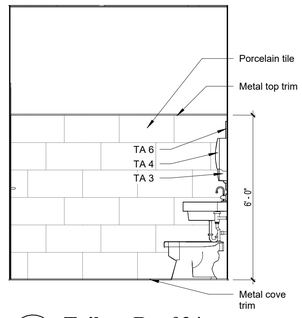
3 A5.1 **Toilet - Rm 024**
Scale: 3/8" = 1'-0"
Toilet - Rm 025 mirrored



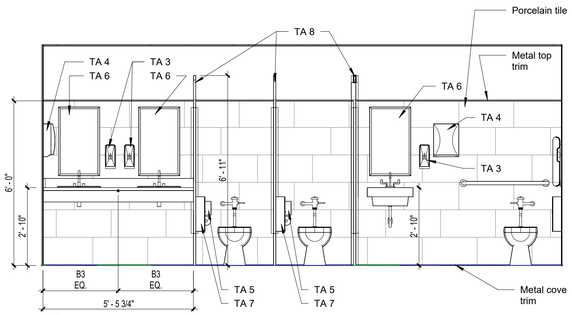
4 A5.1 **Toilet - Rm 024**
Scale: 3/8" = 1'-0"
Toilet - Rm 025 mirrored



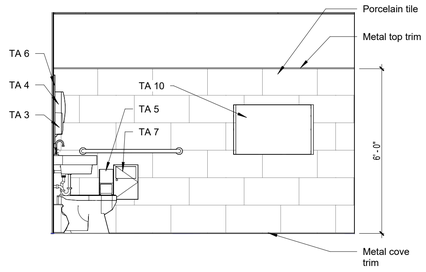
5 A5.1 **Toilet - Rm 024**
Scale: 3/8" = 1'-0"
Toilet - Rm 025 mirrored



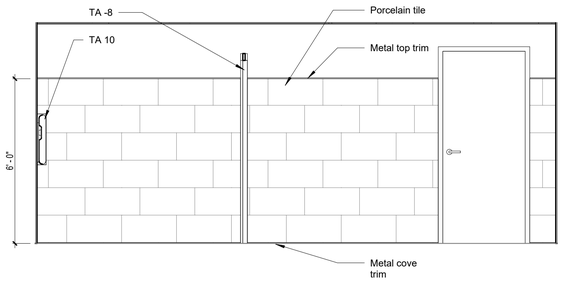
6 A5.1 **Toilet - Rm 024**
Scale: 3/8" = 1'-0"
Toilet - Rm 025 mirrored



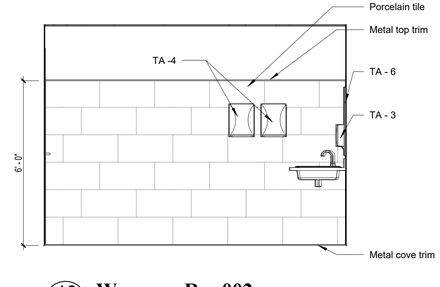
7 A5.1 **Woman - Rm 002**
Scale: 3/8" = 1'-0"



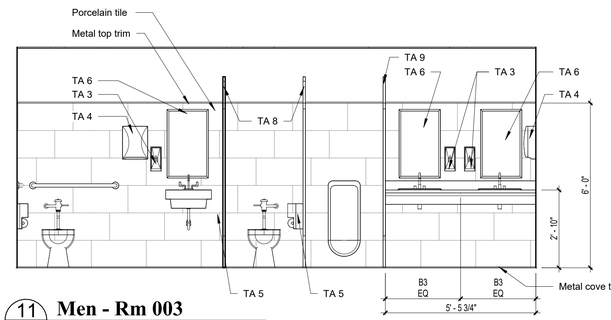
8 A5.1 **Woman - Rm 002**
Scale: 3/8" = 1'-0"



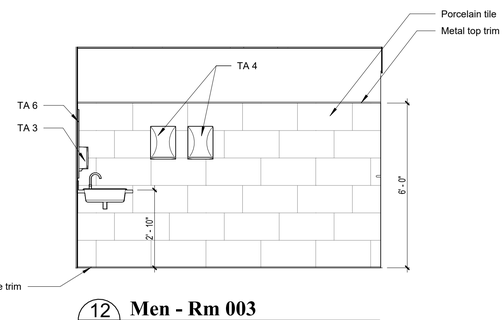
9 A5.1 **Woman - Rm 002**
Scale: 3/8" = 1'-0"



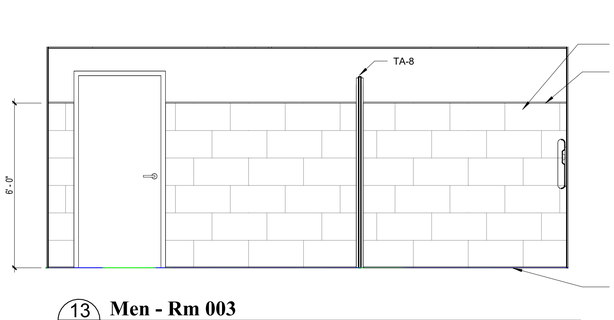
10 A5.1 **Woman - Rm 002**
Scale: 3/8" = 1'-0"



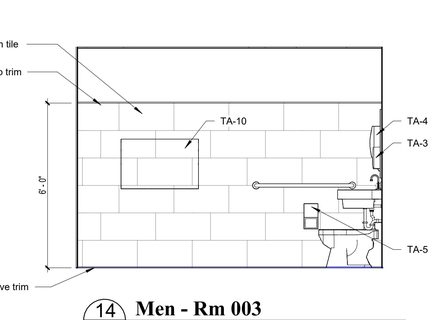
11 A5.1 **Men - Rm 003**
Scale: 3/8" = 1'-0"



12 A5.1 **Men - Rm 003**
Scale: 3/8" = 1'-0"



13 A5.1 **Men - Rm 003**
Scale: 3/8" = 1'-0"



14 A5.1 **Men - Rm 003**
Scale: 3/8" = 1'-0"

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CRA ARCHITECTS

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Submittal

Phase	Date	Drw	Chk
100% CONSTRUCTION DOCUMENTS	07/21/25	LKD	BY
DESIGN DEVELOPMENT	04/29/25	LKD	BY
SCHEMATIC DESIGN	03/25/25	LKD	BY
-	-		
-	-		
-	-		

Revision

#	Description	Date

CRA Project # 24071

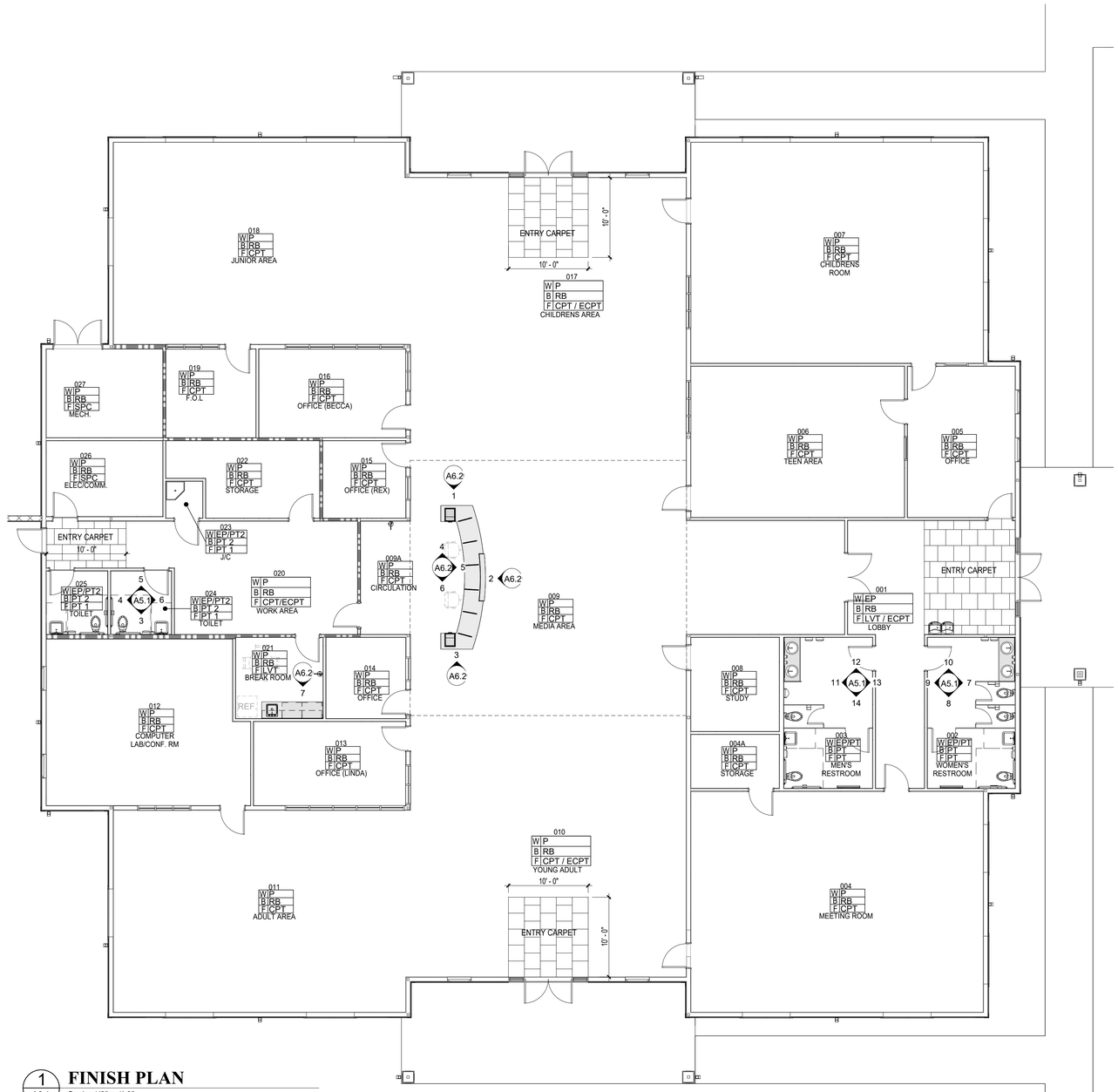
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SHEET TITLE
ENLARGED PLAN & DETAILS

A5.1

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1 A6.1 **FINISH PLAN**

Scale: 1/8" = 1'-0"

COLOR LEGEND

CARPET - CPT
MFR: TO BE SELECTED
PATTERN: TO BE SELECTED
COLOR: TO BE SELECTED

ENTRY CARPET - ECPT
MFR: TO BE SELECTED
PATTERN: TO BE SELECTED
COLOR: TO BE SELECTED

LUXURY VINYL TILE - LVT
MFR: TO BE SELECTED
PATTERN: TO BE SELECTED
COLOR: TO BE SELECTED

METAL TRIM FOR TILE
MFR: SCHLUTER
COLOR : ANODIZED ALUMINUM

PAINT - P
MFR: SHERWIN WILLIAMS
COLOR-1: TO BE SELECTED (WALLS - TYPICAL)
COLOR 2: TO BE SELECTED (HOLLOW METAL WINDOW & DOOR FRAMES)
COLOR 3: EXTRA WHITE, SW (GWB CEILINGS)
COLOR-4: TO BE SELECTED (ACCENT PAINT)
NOTE: IF EP IS SCHEDULED, USE EPOXY PAINT

PLASTIC LAMINATE
MFR: TO BE SELECTED
COLOR: TO BE SELECTED (CABINETS)
PVC EDGE BANDING: TO BE SELECTED

PORCELAIN TILE - PT
MFR: TRINITY TILE
STYLE: DRIFT
COLOR 1: TO BE SELECTED (FLOOR)
GROUT:
COLOR 2: TO BE SELECTED (WALL)
GROUT: TO BE SELECTED

RESILIENT BASE -RB
MFR: TO BE SELECTED
COLOR: TO BE SELECTED

RESILIENT REDUCER STRIP
MFR: TO BE SELECTED
COLOR: TO BE SELECTED

RESILIENT TRANSITION STRIP
MFR: TO BE SELECTED
COLOR: TO BE SELECTED

SOLID SURFACE
MFR: TO BE SELECTED
COLOR-1: TO BE SELECTED (COUNTERTOPS & WINDOW SILLS)
COLOR-2: TO BE SELECTED (INTEGRAL LAVATORIES)

SPECIALTY COATINGS FOR CONCRETE - SPC
MFR: SHERWIN WILLIAMS
COLOR: TO BE SELECTED

TOILET PARTITIONS
MFR: SCRANTON
COLOR: TO BE SELECTED

WOOD DOORS
MFR: TO BE SELECTED
SPECIES: NATURAL ROTARY BIRCH
COLOR: TO BE SELECTED

Finish Notes

1) All floor finishes shall be Class 1.
2) All ceiling and wall finishes shall be Class A.
3) See reflected ceiling plan for ceiling finishes and heights.
4) Provide a metal transition strip between Porcelain Tile and Carpet or Luxury Vinyl Tile equal to Schluter RENO-TK in adnodized aluminum.
5) Provide a resilient reducer strip between Carpet and SPC equal to Tarkett CTA-XX-J.
6) Provide a resilient transition strip between Carpet and Luxury Vinyl Tile equal to Tarkett Metal Edge.
7) Provide a 72" high wainscot of Porcelain Tile on all walls in restrooms and janitor closet. See wall tile pattern on A6.2. (Offset tile by 30%.)

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100% CONSTRUCTION DOCUMENTS	07/21/25	BY	TB
DESIGN DEVELOPMENT	04/29/25	BY	TB
SCHEMATIC DESIGN	03/25/25	BY	TB
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Revision

#	Description	Date

CRA Project # **24071**

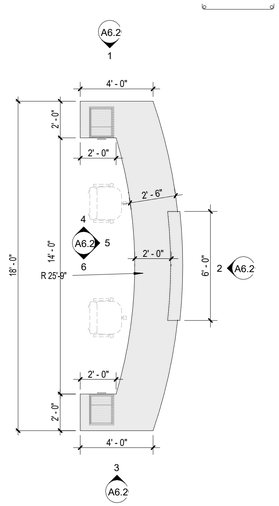
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Finish Plan

A6.1

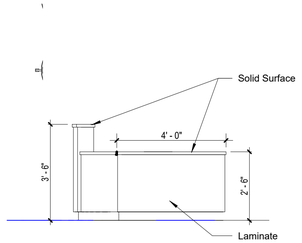
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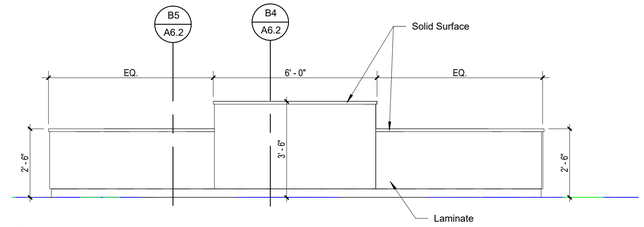
Media Desk - Rm 009

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



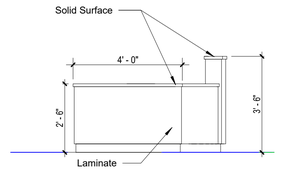
1 A6.2 **Media Desk - Rm 009**

Scale: 3/8" = 1'-0"



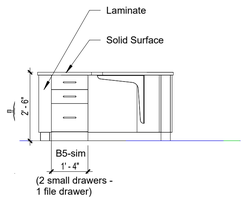
2 A6.2 **Media Desk - Rm 009**

Scale: 3/8" = 1'-0"



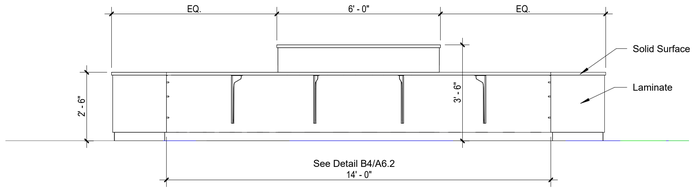
3 A6.2 **Media Desk - Rm 009**

Scale: 3/8" = 1'-0"



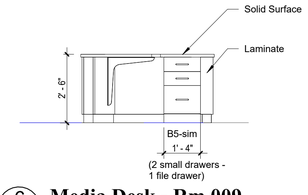
4 A6.2 **Media Desk - Rm 009**

Scale: 3/8" = 1'-0"



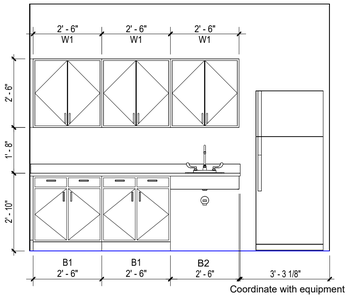
5 A6.2 **Media Desk - Rm 009**

Scale: 3/8" = 1'-0"



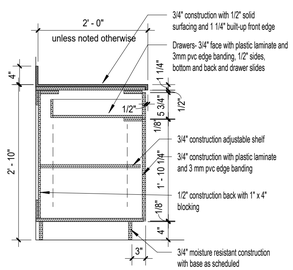
6 A6.2 **Media Desk - Rm 009**

Scale: 3/8" = 1'-0"



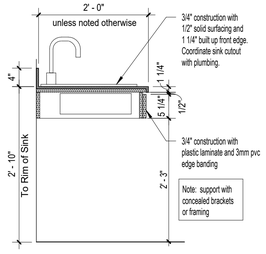
7 A6.2 **Break Room - Rm 021**

Scale: 3/8" = 1'-0"



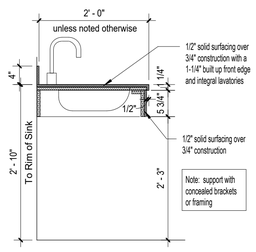
B1 A6.2 **Base Cabinet Detail**

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



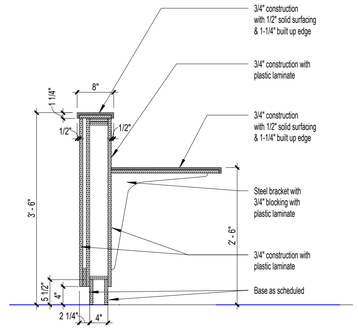
B2 A6.2 **Base Cabinet Detail**

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



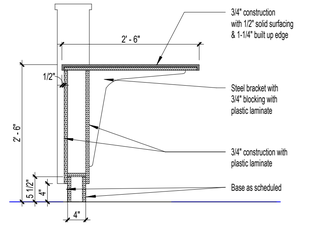
B3 A6.2 **Restroom Vanity Detail**

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



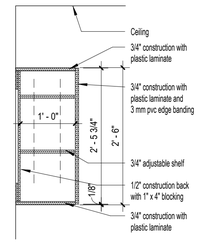
B4 A6.2 **Media Desk Section**

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



B5 A6.2 **Media Desk Section**

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



W1 A6.2 **Wall Cabinet Detail**

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

Millwork Notes

1) Contractor shall field verify all dimensions prior to millwork fabrication.
2) Shop drawings shall include fully dimensioned and detailed elevations for architect / owner's review.
3) Provide plastic laminate on all exposed and semi-exposed surfaces.
4) Refer to interior elevation key for designations.

   1 / A6.2 — Interior Elevation Key Plan

5) Contractor to coordinate all appliance and equipment sizes with owner prior to fabrication of millwork.
6) See sheet A6.1 for vanities.

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SCHEMATIC DESIGN	03/25/25	BY	TB
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Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

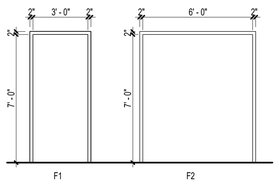
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Millwork and Details

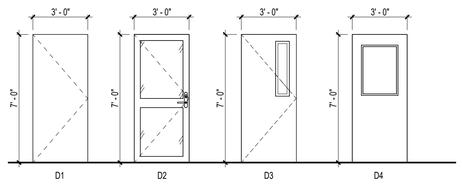
A6.2

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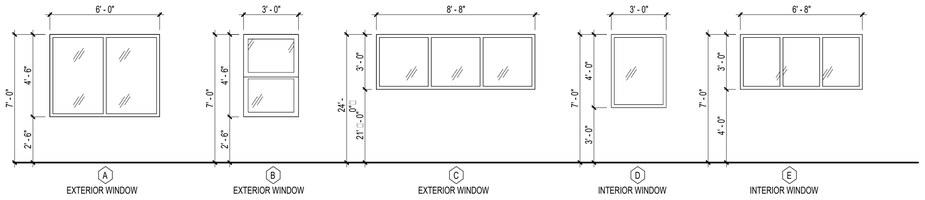
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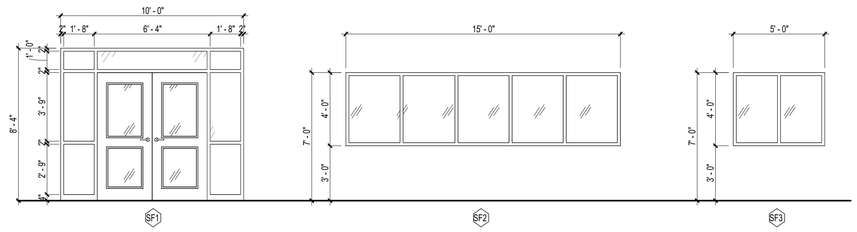
FRAME TYPES
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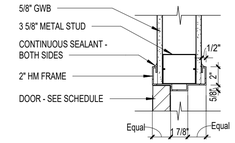
DOOR TYPES
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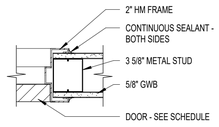
WINDOW TYPES
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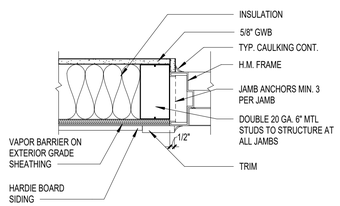
STOREFRONT ELEVATIONS
Scale: 1/4" = 1'-0"



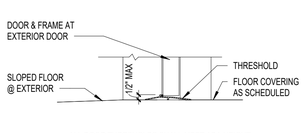
1 A7.1 INTERIOR DOOR-HEAD DETAIL
Scale: 1 1/2" = 1'-0"



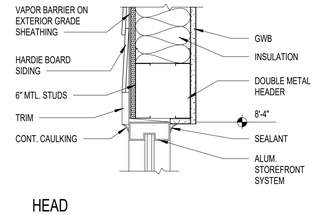
2 A7.1 INTERIOR DOOR-JAMB DETAIL
Scale: 1 1/2" = 1'-0"

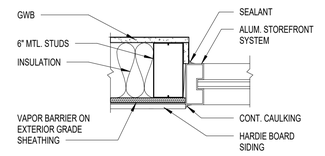


3 A7.1 EXT. HM DOOR FRAME DETAIL
Scale: 1 1/2" = 1'-0"

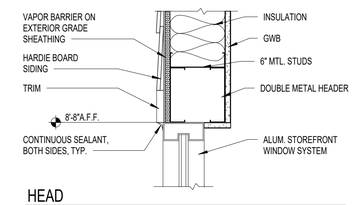


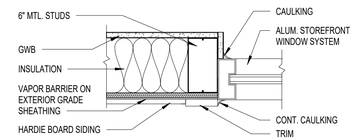
4 A7.1 DOOR SILL DETAIL
Scale: 1 1/2" = 1'-0"

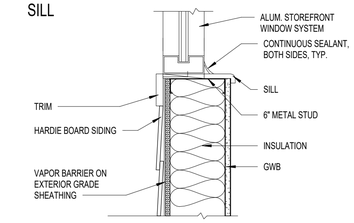




9 A7.1 STOREFRONT DETAIL
Scale: 1 1/2" = 1'-0"







5 A7.1 EXT. WINDOW HEAD/JAMB/SILL
Scale: 1 1/2" = 1'-0"

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CRA ARCHITECTS

Clemons,Rutherford, & Associates, Inc.

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cra@craarchitects.com

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Submittal

Phase	Date	Drw	Chk
100% CONSTRUCTION DOCUMENTS	07/21/25	LKD	BY
DESIGN DEVELOPMENT	04/29/25	LKD	BY
SCHEMATIC DESIGN	03/25/25	LKD	BY
-	-		
-	-		
-	-		

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

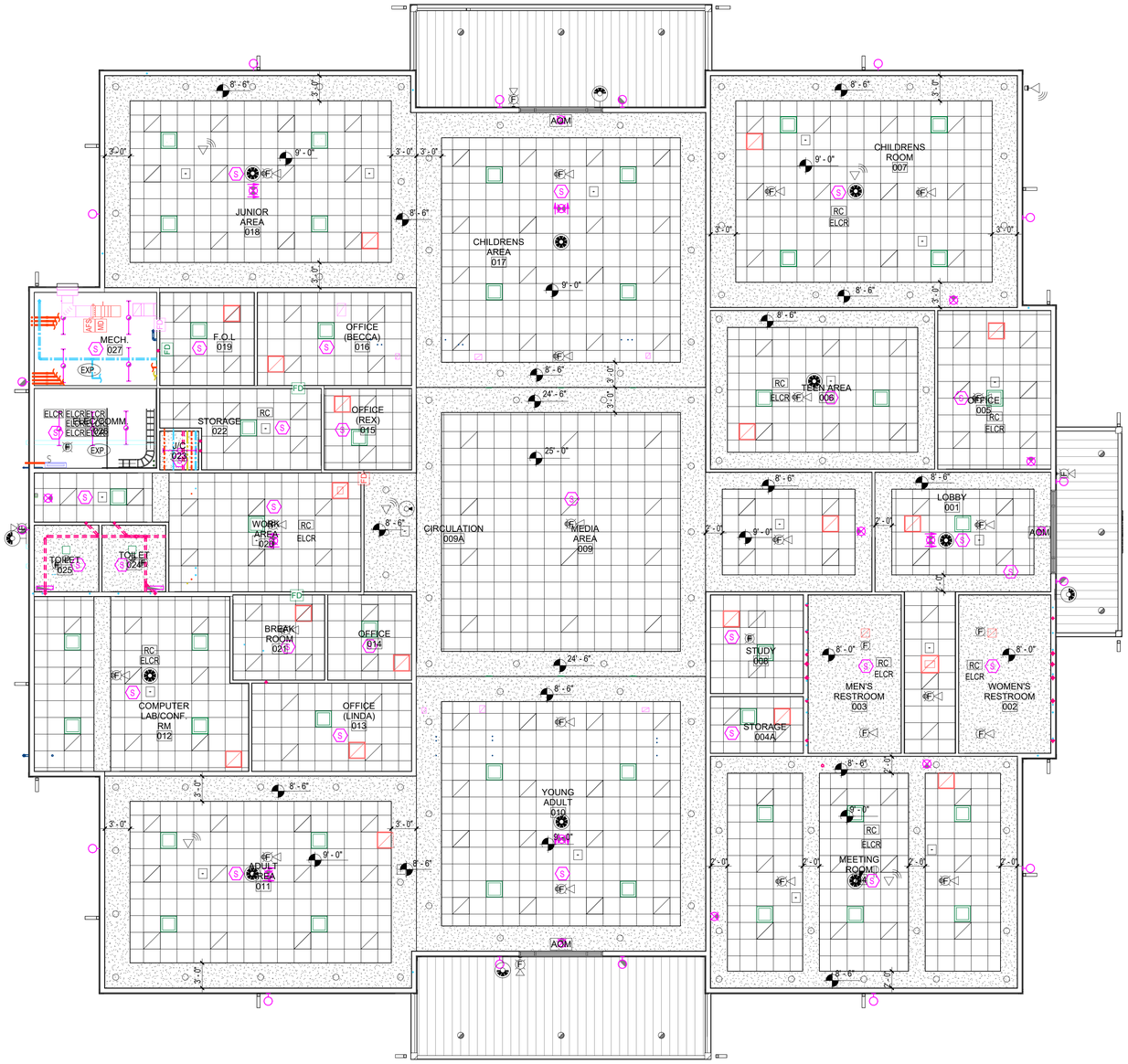
SHEET TITLE

DOOR & WINDOW ELEV./ SCHEDULE

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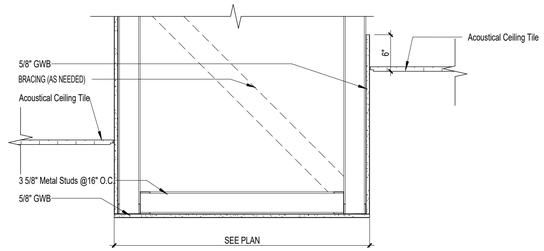
REFLECTED CEILING PLAN

Scale: 1/8" = 1'-0"

CEILING PLAN LEGEND

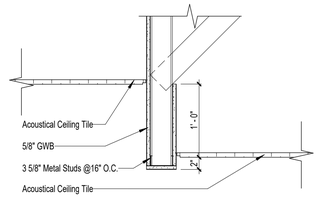
- GYPSUM BOARD CEILING
- ACOUSTICAL TILE CEILING
- METAL SOFFIT
- EXP — EXPOSED CEILING
- CEILING HEIGHT
- PULLED FROM THE END OF LINE

GENERAL NOTE:
CEILING HEIGHT 9'-0" UNLESS NOTED OTHERWISE



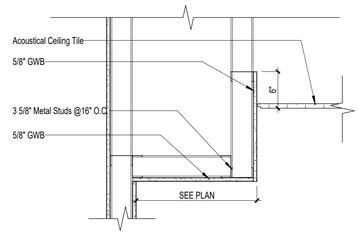
3 RCP DETAIL

A8.1 — Scale: 1" = 1'-0"



4 RCP DETAIL

A8.1 — Scale: 1" = 1'-0"



5 RCP DETAIL

A8.1 — Scale: 1" = 1'-0"

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Submittal

Phase	Date	Drw	Chk
100% CONSTRUCTION DOCUMENTS	07/21/25	LKD	BY
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SCHEMATIC DESIGN	03/25/25	LKD	BY
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Revision

#	Description	Date

CRA Project # **24071**

Phase: **100% CONSTRUCTION DOCUMENTS**

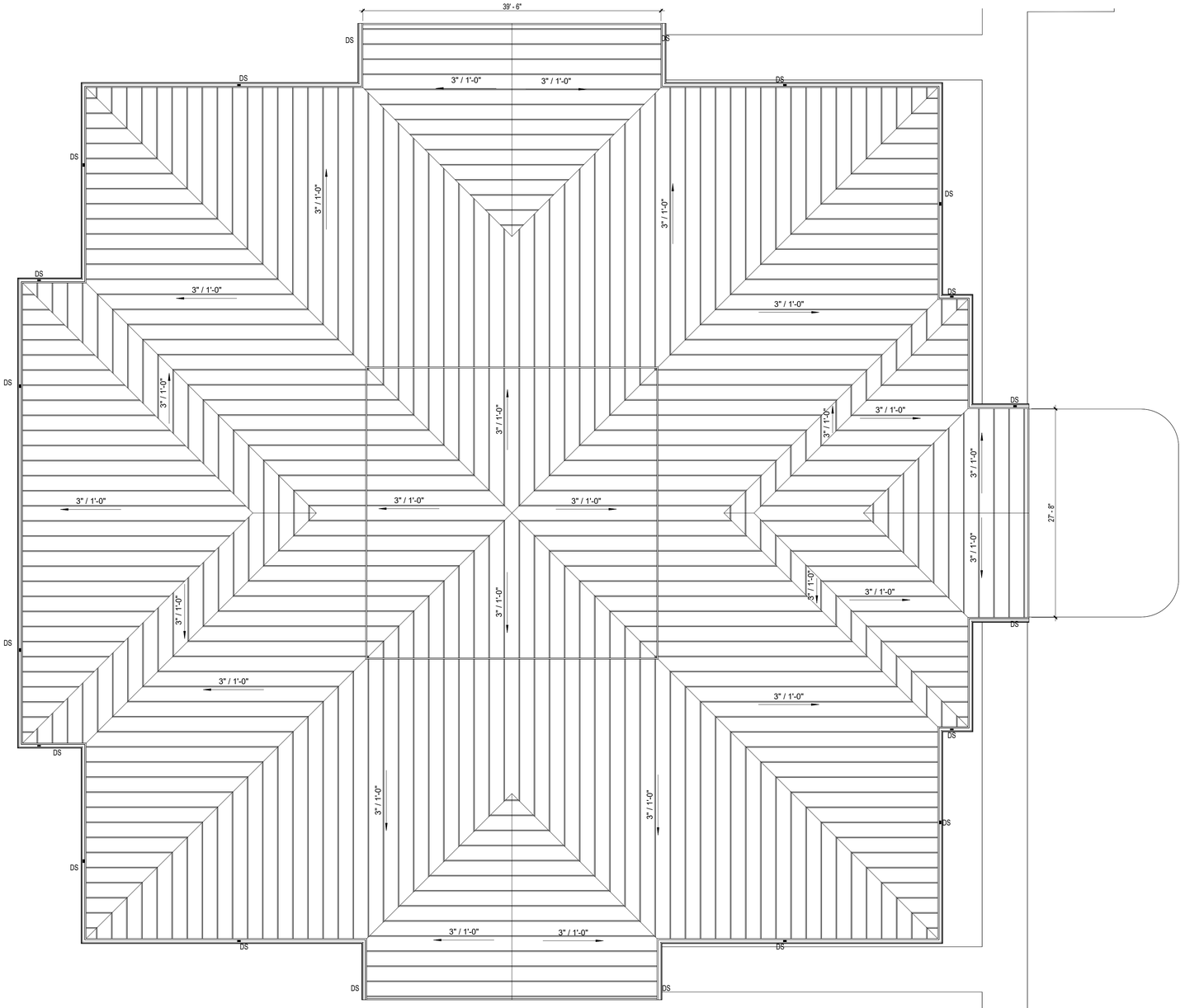
SHEET TITLE

REFLECTED CEILING PLAN

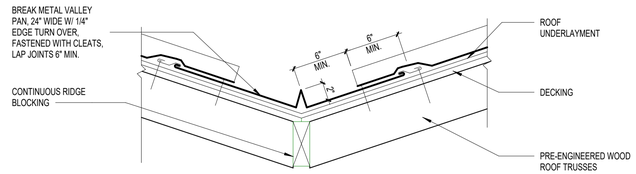
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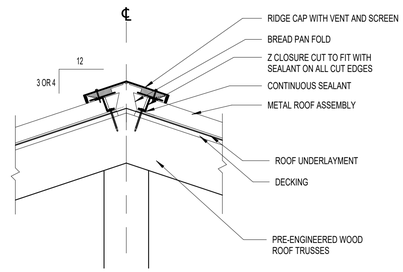


ROOF PLAN
Scale: 1/8" = 1'-0"



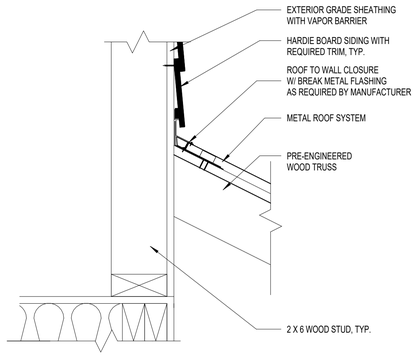
NOTE: WIDTH OF VALLEY SHOWN IS A MINIMUM. VALLEY AND VALLEY PAN WIDTHS SHALL BE INCREASED AS REQUIRED FOR ROOF AREA AND SLOPE UNIQUE TO EACH CONDITION. PER ROOF MANF. RECOMMENDATIONS

1 TYPICAL ROOF VALLEY DETAIL
A9.1 Scale: 1 1/2" = 1'-0"

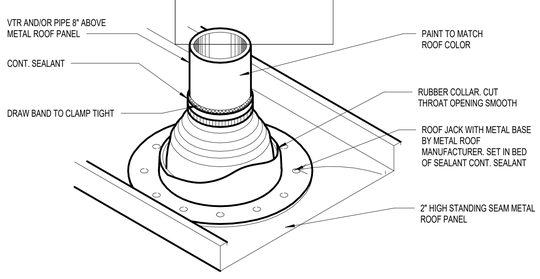


NOTE: PROVIDE BENT PLATES FOR RIDGE AND HIPS AS NECESSARY FOR SUPPORT OF ROOF SYSTEM

2 TYPICAL RIDGE DETAIL (HIP SIMILAR)
A9.1 Scale: 1 1/2" = 1'-0"

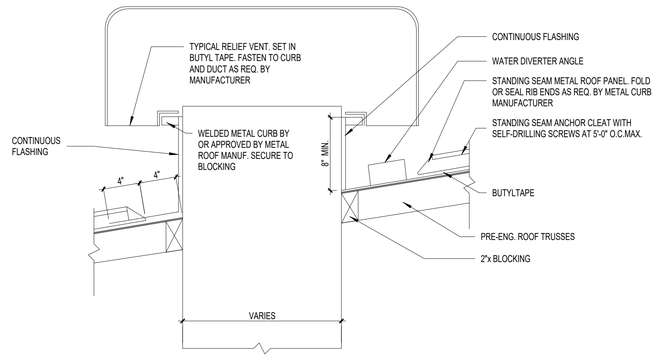


3 ROOF TO WALL DETAIL
A9.1 Scale: 1 1/2" = 1'-0"



NOTE: VENT MUST OCCUR BETWEEN STANDING SEAMS

4 TYPICAL STACK DETAIL
A9.1 Scale: 1 1/2" = 1'-0"



5 TYPICAL EXHAUST FAN
A9.1 Scale: 1 1/2" = 1'-0"

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Gregory Westmoreland Kelley
AR0016706

Submittal

Phase	Date	Drw	Chk
100% CONSTRUCTION DOCUMENTS	07/21/25	LKD	BY
DESIGN DEVELOPMENT	04/29/25	LKD	BY
SCHEMATIC DESIGN	03/25/25	LKD	BY
-	-		
-	-		
-	-		

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
ROOF PLAN

A9.1

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GENERAL STRUCTURAL NOTES

GENERAL

1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER OR SUPPLIER OR ANY OF THEIR CONSULTANTS, AGENTS OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS, NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORDS CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
2. THE GENERAL CONTRACTOR SHALL VERIFY THE DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCY.
3. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE EIGHTH EDITION (2023) FLORIDA BUILDING CODE.
4. THE CONTRACTOR SHALL COORDINATE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL WORKS WITH THE STRUCTURAL CONTRACT DOCUMENTS. ARCHITECT/STRUCTURAL ENGINEER OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES OR OMISSIONS.
5. THE CONTRACTOR SHALL VERIFY THE FLOOR AND ROOF MOUNTED MECHANICAL EQUIPMENTS WEIGHTS, FLOOR AND/OR ROOF OPENING SIZES AND LOCATIONS WITH ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS.
6. THE CONTRACTOR SHALL NOTIFY IN WRITING THE STRUCTURAL ENGINEER OF RECORD OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS.
7. FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS SEE THE ARCHITECTURAL.
8. STRUCTURAL CONTRACT DRAWINGS SHALL NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR ANY MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR OR SUBCONTRACTOR.
9. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE EDITION OF THE REFERENCED CODE INDICATED IN THE BUILDING CODE NOTED ABOVE.
10. ANY CONTRACTOR INTENDING TO SUPPORT EQUIPMENT, PIPING, DUCT WORK, CRANES OR OTHER ITEMS WHICH SUBJECT THE ROOF OR FLOOR SYSTEMS TO CONCENTRATED LOADINGS NOT SPECIFICALLY INDICATED ON THESE STRUCTURAL DRAWINGS, MUST SUBMIT SHOP DRAWINGS, WEIGHTS, AND PROPOSED SUPPORT LOCATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO ERECTION. ANY CONTRACTOR WHO ERECTS EQUIPMENT WITHOUT OBTAINING SUCH APPROVAL WILL BE REQUIRED EITHER TO REMOVE IT AND SUBMIT SHOP DRAWINGS OR STAND THE COST OF REQUIRED REINFORCEMENT OF MEMBERS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE PERFORMANCE OF THE CONTRACT. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDER OF PUBLIC AUTHORITIES (ESPECIALLY OSHA) BEARING ON SAFETY OF PERSONS OR PROPERTY OR THEIR PROTECTION FROM DAMAGE, INJURY OR LOSS. THE CONTRACTOR SHALL NOT LOAD OR PERMIT ANY PART OF THE CONSTRUCTION SITE TO BE LOADED SO AS TO ENDANGER ITS SAFETY.
12. IN NO CASE SHALL STRUCTURAL ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY JOHNSON AND ASSOCIATES ENGINEERING IN WRITING.
13. THIS BUILDING IS DESIGNED AS AN ENCLOSED STRUCTURE. ALL EXTERIOR COMPONENTS (DOORS, WINDOWS, ETC.) MUST BE DESIGNED TO WITHSTAND THE WIND LOADINGS SPECIFIED FOR THE DESIGN OF COMPONENTS AND CLADDING IN THE APPLICABLE BUILDING CODE.
14. THE CONTRACT DOCUMENT DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE SPECIFICATIONS AND/OR CODE OF PRACTICE FOR AISC, ACI, SJI, OR OTHER STANDARDS.

FOUNDATION

1. THE FOUNDATION IS DESIGNED AS RECOMMENDED BY SOUTHERN EARTH SCIENCES, INC IN THE PROJECT GEOTECHNICAL REPORT DATED JUNE 6, 2025. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD CONTRARY TO THOSE ASSUMED FOR DESIGN.
2. FOR BUILDING SITE PREPARATION REQUIREMENTS SEE PROJECT GEOTECHNICAL REPORT AND PROJECT SPECIFICATIONS.
3. FOUNDATION SHALL CONSIST OF SPREAD FOOTINGS DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 2000 PSF.
4. FOOTING SUBGRADE SHALL BE COMPACTED AND PREPARED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.

CONCRETE

1. CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF ACI 318 AND CRSI STANDARDS.
2. PIPES OR DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED WITHIN THE THICKNESS OF CONCRETE WALLS UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES.
3. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS, OR GROUNDS REQUIRED TO BE ENGAGED IN CONCRETE AND FOR LOCATION AND DETAILS OF FLOOR FINISHES AND SLAB DEPRESSIONS.
4. CONSTRUCTION JOINTS IN CONCRETE BEAMS AND FRAMED SLABS SHALL BE PLACED AT MIDSPAN. ALL CONSTRUCTION JOINTS MUST BE KEYED WITH REINFORCING RUN CONTINUOUS THROUGH JOINTS.
5. AT COLUMN FOOTINGS, COLUMN ANCHOR RODS WITH TEMPLATE SHALL BE INSTALLED IN PROPER LOCATION PRIOR TO POURING THE FOOTING.
6. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTH UTILIZING TYPE 1 CEMENT:

FOUNDATIONS AND SLABS ON GRADE	3000 PSI

REINFORCING STEEL

1. REINFORCING STEEL SHALL CONFORM TO ASTM A615-GRADE 60.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND HAVE A MINIMUM SIDE LAP OF 8 INCHES.
3. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS.
4. ALL REINFORCING LAP SPLICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318, FOR REINFORCED CONCRETE, AND ACI 530 FOR REINFORCED MASONRY.
5. ALL REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI MANUAL AND MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
6. MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE IN CONFORMANCE WITH ACI 318, EXCEPT AS OTHERWISE NOTED.

REINFORCING STEEL (CONT.)

7. REINFORCING IN ALL CONCRETE WALLS, FOOTINGS AND BOND BEAMS SHALL BE CONTINUOUS AT INTERSECTIONS AND CORNERS. WHERE WALL FOOTINGS STEP, REINFORCING SHALL BE CONTINUOUS IN STEP.
8. PROVIDE 2-#5 EXTRA DIAGONAL REINFORCING BARS AT CORNERS OF ALL OPENINGS IN FRAMED SLABS AND CONCRETE WALLS. EXTEND BARS 2'-0" BEYOND EACH EDGE OF OPENING.
9. AT POURED CONCRETE WALLS, PIERS AND COLUMNS, DOWELS FOR VERTICAL REINFORCING BARS SHALL BE INSTALLED IN THEIR PROPER LOCATION PRIOR TO CONCRETE POUR OF THE FOOTINGS.

STRUCTURAL METALS

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A572 GRADE 50 EXCEPT ANGLES, CHANNELS, PLATES, RODS, ETC SHALL CONFORM TO ASTM A36 AND STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (F_y=46ksi). ANCHOR BOLTS SHALL CONFORM TO ASTM A1554 GRADE 36.
2. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO AISC 360-05, THIRTEENTH EDITION OF THE AISC MANUAL AND SPECIFICATIONS. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF CONFLICT WITH THE AISC ASPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
3. FABRICATOR SHALL PREPARE SHOP DRAWINGS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER OF RECORD. THE STRUCTURAL ENGINEER OF RECORD SHALL BE COMPENSATED BY THE FABRICATOR FOR THE COST INVOLVED IN THE REDESIGN OF CONNECTIONS FOR THE CONVENIENCE OF THE FABRICATOR.
4. UNLESS INDICATED OTHERWISE, ALL BEAM CONNECTIONS SHALL BE AISC DOUBLE ANGLE PER TABLES 10-1 THRU 10-3 OF THE ASD MANUAL OF STEEL CONSTRUCTION. UNLESS OTHERWISE INDICATED, BOLTED CONNECTIONS SHALL UTILIZE MAXIMUM NUMBER OF ROWS AT 3" STANDARD BOLT SPACING.
5. BOLTED CONNECTIONS SHALL BE NON-SLIP CRITICAL BEARING TYPE CONNECTIONS (THREADS EXCLUDED FROM THE SHEAR PLANE) USING 3/4" DIAMETER A-325 BOLTS. SLOTTED HOLES ARE PERMITTED ONLY WHERE THE DIRECTION OF THE LOAD IS NORMAL TO THE AXIS OF THE SLOT. BOLTED CONNECTIONS FOR TRUSS JOINTS, HANGERS AND DIAGONAL BRACING (AS OCCURS) SHALL BE SLIP CRITICAL.
6. USE PREQUALIFIED WELDED JOINTS PER AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. NON QUALIFIED JOINTS SHALL BE QUALIFIED BY THE FABRICATOR PRIOR TO FABRICATION.
7. SHOP PAINT FOR STRUCTURAL STEEL SHALL BE TNEMEC 10-99. APPLY TO STRUCTURAL STEEL TO A MINIMUM DRY FILM THICKNESS OF 2.5 MILS. DO NOT PAINT STEEL TO BE FIRE-PROOFED WITH SPRAYED ON CEMENTITIOUS MATERIALS. DO NOT PAINT STEEL SURFACES TO BE EMBEDDED IN CONCRETE.
8. FRAME ALL ROOF OPENINGS 12 INCHES SQUARE OR LARGER WITH 3-1/2" X 3-1/2" X 1/4" ANGLE FRAME ALL AROUND, UNLESS NOTED OTHERWISE.
9. ALL STRUCTURAL STEEL THAT IS OUTSIDE OF CONDITIONED SPACE OR WHICH IS EXPOSED TO THE EXTERIOR ENVIRONMENT SHALL BE GALVANIZED.
10. ALL TUBE STEEL CONNECTIONS SHALL BE MADE WITH FILLET WELD ALL AROUND, WITH WELD AND CONNECTION CONFORMING TO THE PROVISIONS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, PER THE AISC MANUAL.

COLD FORMED STEEL FRAMING

1. ALL COLD FORMED STEEL FRAMING SHALL BE MADE OF THE TYPE, SIZE, GAUGE AND SPACING SHOWN ON THE DRAWINGS AND SHALL BE MANUFACTURED BY UNIMAST INCORPORATED (OR APPROVED EQUAL).
2. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) ASPECIFICATIONS FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 1986 EDITION, WITH 1989 ADDENDUM.
3. ALL STRUCTURAL MEMBERS SHALL BE FORMED FROM CORROSION-RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENTS OF ASTM A653-94 AND SHALL BE ZINC COATED MEETING ASTM A924. STRUCTURAL MEMBERS SHALL BE FORMED FROM THE FOLLOWING GRADE OF MATERIAL:

   YIELD STRENGTH: 33,000 psi (33 ksi) FOR ALL CR RUNNERS AND 20-GA. AND 18-GA. STUD OR JOIST MEMBERS, 50,000 psi (50ksi) FOR 16-GA., 14-GA. AND 12-GA. STUD OR JOIST MEMBERS.
4. FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR BY WELDING. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. WIRE TYPING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED-UP WITH ZINC-RICH PAINT.
5. SPLICES IN FRAMING COMPONENTS, OTHER THAN RUNNER TRACK SHALL NOT BE PERMITTED.
6. ABUTTING LENGTHS OF RUNNER SHALL BE BUTT-WELDED, SPLICED OR EACH LENGTH SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT. RUNNERS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE AS SHOWN ON THE DRAWINGS.
7. COLD FORMED STEEL TRUSSES SHALL HAVE SYMMETRICAL TOP AND BOTTOM CHORD AND WEB MEMBERS AS DESIGNED BY ALPINE TRUSS STEEL OR APPROVED EQUAL. TRUSS TOP CHORD MEMBERS SHALL HAVE A MINIMUM THICKNESS OF 16 GA.
8. COLD FORMED STEEL TRUSSES SHALL BE DESIGNED, DETAILED AND FABRICATED IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE 'COLD FORMED STEEL DESIGN MANUAL' AND/OR THE 'SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS'.
9. THE COLD FORMED STEEL TRUSSES SHALL BE SIZED AND DETAILED TO FIT THE DIMENSIONS AND LOADS INDICATED. TRUSS MANUFACTURER SHALL PROVIDE DESIGN FOR ALL TRUSSES, SIGNED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. SHOP DRAWINGS SHALL BE PROVIDED INCLUDING A PLACING PLAN WITH MARK NUMBERS INDICATING LOCATIONS. DESIGN SHEETS SHALL INDICATE BEARING POINT LOADS (GRAVITY AND UPLIFT), TRUSS MARK NUMBERS, AND PROJECT IDENTIFICATION. ENGINEERS SEAL SHALL BE ORIGINAL WITH RAISED IMPRINT, AND CONTAIN ENGINEERS SIGNATURE AND DATE. TRUSS JOINTS, SPACINGS, LOCATIONS, OR SIZES INDICATED ON THE PLANS ARE TO BE CONSIDERED SCHEMATIC AND ARE TO BE VERIFIED BY THE MANUFACTURER. HOWEVER, CHANGES SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL. BRIDGING AND BRACING OF THE TRUSSES SHALL BE PROVIDED AS REQUIRED BY THE TRUSS DESIGNER.

MASONRY

1. MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 530 'BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND SPECIFICATION FOR MASONRY STRUCTURES'.
2. MORTAR SHALL CONFORM TO ASTM C270 AND GROUT SHALL CONFORM TO ASTM C476, STANDARD SPECIFICATION FOR MORTAR AND GROUT FOR REINFORCED MASONRY.
3. CONCRETE MASONRY UNITS SHALL BE GRADE N, IN ACCORDANCE WITH ASTM C90, STANDARD SPECIFICATIONS FOR HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS.
4. THE MINIMUM COMPRESSIVE STRENGTH OF MASONRY ASSEMBLIES AT 28 DAYS SHALL BE 1900 PSI ON THE NET SECTION (MORTAR BED AREA). (f'_m = 1500 PSI)
5. ALL VERTICAL REINFORCING STEEL BARS IN CMU WALLS SHALL BE DOWELED TO THE CONCRETE FOUNDATION.
6. ALL CMU REINFORCING STEEL BARS SHALL BE CONTINUOUS WITH LAP SPLICE LENGTHS CONFORMING TO NOTE ABOVE.

MASONRY (CONT.)

7. ALL CMU ELEMENTS SHALL BE ADEQUATELY BRACED TO PROVIDE STABILITY UNTIL THE ENTIRE STRUCTURE IS COMPLETE AND TO PREVENT DAMAGE DURING CONSTRUCTION, ESPECIALLY DUE TO BACKFILLING AND SOIL COMPACTION OPERATIONS.
8. ALL MORTAR FOR BLOCK MASONRY SHALL BE TYPE S EXCEPT AS OTHERWISE NOTED.
9. FILL ALL BLOCK CELLS WITH CONCRETE FROM TOP OF FOOTINGS TO FINISH FLOOR ELEVATION EXCEPT AS INDICATED OTHERWISE.
10. PROVIDE CONTINUOUS HORIZONTAL NO. 9 GAGE TRUSS TYPE JOINT REINFORCING AT 16" O.C. IN ALL BLOCK MASONRY WALLS EXCEPT AS OTHERWISE NOTED.
11. WHERE INTERIOR MASONRY WALLS ON THICKENED SLABS ABUT MASONRY WALLS ON FOOTINGS, RAKE VERTICAL JOINT EACH FACE AND SEAL WITH ELASTOMERIC FILLER.
12. PROVIDE CONTROL JOINTS IN ALL BLOCK MASONRY WALLS. SEE SPECIFICATIONS FOR SPACING. COORDINATE ALL JOINT LOCATIONS WITH ARCHITECT.
13. ALL MASONRY SHALL BE LAID IN RUNNING BOND UNLESS SPECIFICALLY NOTED OTHERWISE ON THE STRUCTURAL CONTRACT DRAWINGS. IF MASONRY BOND OTHER THAN RUNNING BOND IS UTILIZED, HORIZONTAL BOND BEAMS SHALL BE CONSTRUCTED IN THE WALLS AT A MAXIMUM SPACING OF 48 INCHES ON CENTER.

STRUCTURAL SUBMITTALS

1. FURNISH ONE ELECTRONIC COPY OF ALL SHOP DRAWINGS AND SUBMITTALS.
2. SEE CONTRACT SPECIFICATIONS FOR ADDITIONAL SUBMITTAL REQUIREMENTS AND PROCEDURES.
3. REPRODUCTION OF CONTRACT DOCUMENTS FOR ERECTION AND/OR SHOP DRAWINGS WILL NOT BE PERMITTED.
4. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR MEANS, METHOD, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION. SEE SPECIFIC PROVISIONS IN THE CONTRACT DOCUMENTS DEALING WITH THE APPROPRIATE DESIGN RESPONSIBILITIES OF CONTRACTORS, SUBCONTRACTORS, AND SUPPLIERS.
5. IN THE EVENT THAT JOHNSON & ASSOCIATES ENGINEERING REVIEWS SUBMITTALS (AS A COURTESY TO THE CONTRACTOR TO REDUCE THE TIME PRIOR TO THE START OF FABRICATION) WHICH HAVE NOT FIRST BEEN REVIEWED AND APPROVED BY THE CONTRACTOR, SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM REVIEW AND APPROVE ALL SUCH SUBMITTALS, NOR WILL IT CREATE RESPONSIBILITY OR LIABILITY ON THE PART OF JOHNSON & ASSOCIATES ENGINEERING AS TO THE CONTENTS, ACCURACY OR COMPLETENESS OF SUCH SHOP DRAWINGS EXCEPT AS MAY BE SPECIFICALLY DESCRIBED IN THESE GENERAL NOTES. CONTRACTOR IS SOLELY RESPONSIBLE FOR REVIEW AND APPROVAL OF SHOP DRAWINGS AND OTHER SUBMITTALS, AND CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL REQUIREMENTS OF THE WORK OF THE CONTRACTOR AS PROVIDED FOR IN THE CONTRACT DOCUMENTS
6. THE SER REVIEW OF SUBMITTALS WILL BE MADE FOR LIMITED PURPOSES AND IS SUBJECT TO THE LIMITATIONS AND DISCLAIMERS SET FORTH IN THESE GENERAL NOTES. THE JOHNSON AND ASSOCIATES ENGINEERING REVIEW DOES NOT INVOLVE OR INCLUDE:
   A. REVIEW OF SUBMITTAL DIMENSIONS AND QUANTITIES.
   B. ACCEPTANCE OR ASSUMPTION OF ANY RESPONSIBILITY TO REVIEW, ANALYZE OR EVALUATE ANY SUBMITTALS INCLUDING SHOP DRAWINGS PROVIDED TO JOHNSON AND ASSOCIATES ENGINEERING OR ACCEPTANCE OR ASSUMPTION OF ANY PART OF CONTRACTOR'S RESPONSIBILITIES (WHICH INCLUDE THE CONTRACTORS RESPONSIBILITY TO REVIEW AND APPROVE SUBMITTAL), WHETHER OR NOT THE JOHNSON AND ASSOCIATES ENGINEERING REVIEW WAS MADE PRIOR TO THE REVIEW AND APPROVAL OF THE CONTRACTOR.
   C. ANALYSIS, VERIFICATION OR SUBSTANTIATION OF EQUIPMENT OR SYSTEM INSTALLATION OR PERFORMANCE OF EQUIPMENT OR SYSTEMS.
   D. REVIEW, EVALUATION OR APPROVAL OF PROJECT SAFETY PRECAUTIONS OR SAFETY TRAINING.
   E. REVIEW, EVALUATION OR APPROVAL OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES OR SEQUENCES.

   JOHNSON AND ASSOCIATES ENGINEERING REVIEW OF A SPECIFIC ITEM DOES NOT INCLUDE OR INDICATE OR CONSTITUTE REVIEW OF A GROUP OR AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

   THE CONTRACTOR MUST NOTIFY JOHNSON AND ASSOCIATES ENGINEERING, IN WRITING, RELATIVE TO ANY DEVIATION FROM THE CONTRACT DOCUMENTS, WHICH APPEARS IN THE SHOP DRAWINGS, SAMPLES, AND PRODUCT DATA. APPROVAL OF THE SUBMITTAL CONTAINING SUCH DEVIATION DOES NOT CONSTITUTE APPROVAL OF THE DEVIATION. APPROVAL OR REJECTION OF THE DEVIATION WILL ONLY BE PROVIDED BY JOHNSON AND ASSOCIATES ENGINEERING IN A SEPARATE WRITTEN COMMUNICATION TO THE CONTRACTOR. JOHNSON AND ASSOCIATES ENGINEERING IS NOT RESPONSIBLE FOR DISCOVERY OF DEVIATIONS NOT COMMUNICATED BY THE CONTRACTOR.

STRUCTURAL SUBMITTALS: STRUCTURAL STEEL, METAL ROOF DECKING, COLD FORMED STEEL TRUSSES, CONCRETE REINFORCING BARS, ANCHOR RODS AND CONCRETE MIX DESIGNS

1. THE FOLLOWING SUBMITTALS MUST BE MADE TO THE STRUCTURAL ENGINEER OF RECORD:
   A. ERECTION DRAWINGS, FABRICATION DRAWINGS, COMPONENT DETAILS, AND CONNECTION DETAILS.
   B. CALCULATIONS FOR ALL COMPONENTS SIZED BY THE FABRICATORS SPECIALTY DESIGN ENGINEER.
2. THE STRUCTURAL SUBMITTALS FOR THE METAL ROOF DECKING AND COLD FORMED STEEL TRUSSES SHALL BEAR THE IMPRESSED SEAL AND SIGNATURE OF THE SPECIALTY DESIGN ENGINEER LICENSED IN THE PROJECT STATE.
3. THE PROJECT STRUCTURAL ENGINEER OF RECORD WILL REVIEW THE SUBMITTALS FOR INDICATION THAT HIS INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAVE BEEN USED.

DESIGN LOADS

1. ROOF LIVE LOAD = 20 PSF
2. WIND LOADING CRITERIA (PER ASCE 7-22)

BUILDING RISK CATEGORY	= II
BASIC WIND SPEED:	V(ULT) = 120 MPH
EXPOSURE CATEGORY:	= C
INTERNAL PRESSURE COEFF.:	GCpI = +/- 0.18

DESIGN LOADS (CONT.)

COMPONENTS & CLADDING (ROOF)

LOCATION	TRIBUTARY AREA	DESIGN WIND PRESSURE (PSF)
ROOF (CORNER ZONE) 3	< 10 SF.	78 PSF
	10 - 20 SF.	78 PSF
	20 - 50 SF.	70 PSF
	50 - 100 SF.	62 PSF
	≥ 100 SF.	53 PSF
ROOF (EDGE ZONE) 2	< 10 SF.	73 PSF
	10 - 20 SF.	73 PSF
	20 - 50 SF.	64 PSF
	50 - 100 SF.	56 PSF
	≥ 100 SF.	50 PSF
ROOF (INTERIOR ZONE) 1	< 10 SF.	56 PSF
	10 - 20 SF.	56 PSF
	20 - 50 SF.	50 PSF
	50 - 100 SF.	42 PSF
	≥ 100 SF.	34 PSF

COMPONENTS & CLADDING (WALLS)

LOCATION	TRIBUTARY AREA	DESIGN WIND PRESSURE (PSF)
WALL (EDGE ZONE) 5	< 10 SF.	45 PSF
	10 - 20 SF.	45 PSF
	20 - 50 SF.	42 PSF
	50 - 100 SF.	39 PSF
	≥ 100 SF.	36 PSF
WALL (INTERIOR ZONE) 4	< 10 SF.	36 PSF
	10 - 20 SF.	36 PSF
	20 - 50 SF.	34 PSF
	50 - 100 SF.	34 PSF
	≥ 100 SF.	31 PSF

COMPONENTS AND CLADDING PRESSURES SHOWN IN THE TABLES ABOVE ARE STRENGTH DESIGN (ULTIMATE) PRESSURES PER THE ASCE 7-22. USE OF THESE PRESSURES FOR ALLOWABLE STRESS DESIGN (ASD) SHALL BE IN ACCORDANCE WITH THE LOAD COMBINATIONS SHOWN IN THE ASCE 7-22.

PREENGINEERED SYSTEMS

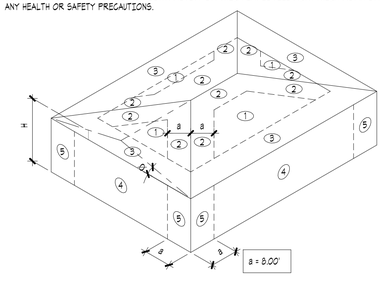
1. THE DESIGN OF PREENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED/ENGINEERED BY OTHERS IS THE SOLE RESPONSIBILITY OF THE SUPPLIER AND ITS DESIGN ENGINEER, LICENSED IN THE PROJECT STATE. SUBMITTALS OF SUCH SYSTEMS TO THE STRUCTURAL ENGINEER OF RECORD SHALL BE REVIEWED FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT, AND/OR SIZES OF MEMBERS SHOWN ON THE CONTRACT DOCUMENTS AND TO INSURE CORRECT INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE STRUCTURAL ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS.
2. SEE SPECIFIC SECTIONS OF GENERAL NOTES ABOVE AND SPECIFICATIONS FOR THE APPROPRIATE DESIGN RESPONSIBILITIES OF THE SUPPLIER AND ITS LICENSED ENGINEER.
3. THE CONTRACT DOCUMENT DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE SPECIFICATIONS AND/OR CODE OF PRACTICE FOR AISC, ACI, SJI, OR OTHER STANDARDS.

ERECTION, BRACING AND FORMWORK

1. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, FORMWORK, SHORING, AND TEMPORARY SUPPORTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
2. ANCHOR BOLTS AND FOUNDATIONS HAVE NOT BEEN DESIGNED FOR ANY CONDITION OF LOADING OTHER THAN THAT OF THE COMPLETED STRUCTURE. VERIFICATION OF ADEQUACY OF ANCHOR BOLT AND FOUNDATIONS TO RESIST ERECTION INDUCED FORCES IS SOLELY THE RESPONSIBILITY OF THE STEEL ERECTOR AND CONTRACTOR.
3. UNLESS OTHERWISE NOTED STEEL FRAMEWORKS FOR THIS PROJECT ARE CLASSIFIED PER AISC CODE OF STANDARD PRACTICE AS A 'NON-SELF-SUPPORTING STEEL FRAME'. PROVIDE TEMPORARY SUPPORT SYSTEMS NECESSARY TO SECURE ANY ELEMENT OR ELEMENTS OF THE STEEL FRAMING UNTIL ALL PERMANENT STEEL BRACING, DECKING AND/OR MASONRY WALLS ARE IN-PLACE AND CONNECTED TO THE STEEL FRAMEWORKS.

JOB SITE SAFETY

THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND FOR CONFORMANCE WITH THE HEALTH AND SAFETY PROVISIONS REQUIRED BY ANY REGULATORY AGENCIES. THE STRUCTURAL ENGINEER OF RECORD HAS NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR, OR THEIR EMPLOYEES WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS.



ISOMETRIC VIEW

SCHEMATIC GENERALIZED WIND ZONE IDENTIFICATION MODEL (FOR USE WITH COMPONENT & CLADDING WIND PRESSURES)

JOHNSON & ASSOCIATES ENGINEERING
PROFESSIONAL CONSULTING ENGINEERS
1301 GROVE PARK LANE, #307
CLERMONT, FLORIDA 34711
(352) 679-4783 VOICE/FAX (941) 676-1161
FLORIDA CERTIFICATE OF AUTHORIZATION No. 27956
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WAKULLA COUNTY BOCC

WAKULLA COUNTY PUBLIC LIBRARY

CRAWFORDVILLE, FL

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Bradley B. Johnson, PE
PE000052284

Submittal

Phase	Date	Drw	Chk
100% CONSTRUCTION DOCUMENTS	07/21/25	PDJG	BBJ
DESIGN DEVELOPMENT	04/29/25	PDJG	BBJ

Revision

#	Description	Date

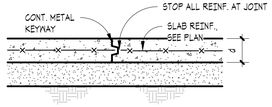
CRA Project # **24071**

Phase: **100% CONSTRUCTION DOCUMENTS**

SHEET TITLE
GENERAL STRUCTURAL NOTES

S0.1

192.168.1.8\JAE\JA

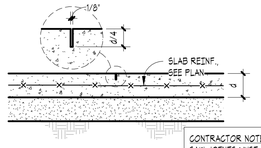


TYP. SLAB CONSTRUCTION JOINT DETAIL (C.J.)

DETAIL 1 / S0.2

SCALE: 1" = 1'-0"

CONTRACTOR NOTE:
CONTRACTOR SHALL FIELD LOCATE AND INSTALL SLAB JOINTS. JOINTS SHALL BE INSTALLED IN GENERALLY ORTHOGONAL DIRECTIONS IN THE SPACES. SPACING OF JOINTS SHALL BE SUCH THAT THE AREA BOUNDED BY SLAB JOINTS SHALL NOT EXCEED 144 SQUARE FEET, AND THE DISTANCE BETWEEN TWO PARALLEL JOINTS SHALL NOT EXCEED 12 FEET. JOINTS SHALL BE EITHER SLAB CONSTRUCTION JOINTS OR SAW JOINTS, SEE DETAILS ON THIS SHEET.

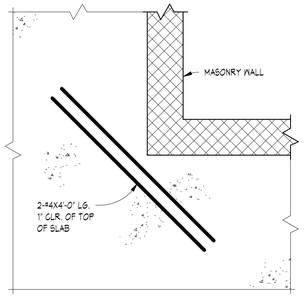


TYP. SLAB SAW JOINT DETAIL (S.J.)

DETAIL 2 / S0.2

SCALE: 1" = 1'-0"

CONTRACTOR NOTE:
SAW JOINTS MUST BE SAWN WITHIN 1 HOUR OF CONCRETE INITIAL SET.

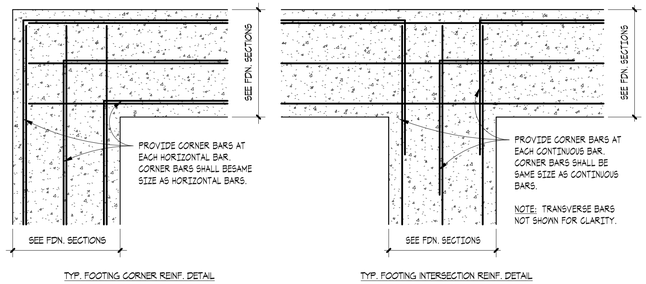


PLAN VIEW

EXTRA REINFORCING AT RE-ENTRANT CORNERS OF SLABS ON GRADE

DETAIL 3 / S0.2

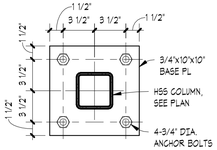
SCALE: 3/4" = 1'-0"



TYP. FOOTING REINFORCING DETAIL

DETAIL 4 / S0.2

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

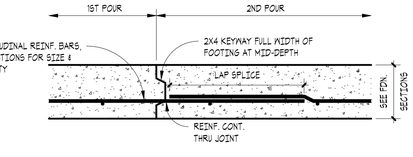


TYPE I BASE PLATE
(HSS 3 1/2X3 1/2 & HSS 4X4 GOLMS.)

COLUMN BASE PLATE DETAILS

DETAIL 5 / S0.2

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

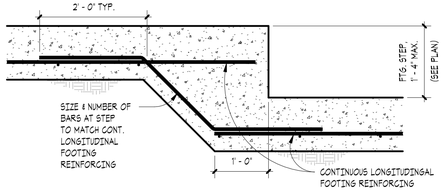


ELEVATION VIEW

TYP. FOOTING CONSTRUCTION JOINT DETAIL

DETAIL 7 / S0.2

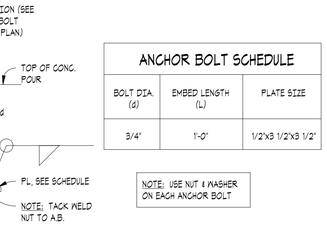
SCALE: 3/4" = 1'-0"



TYPICAL FOOTING STEP DETAIL

DETAIL 8 / S0.2

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



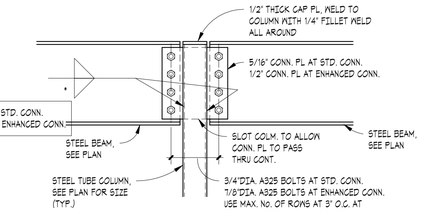
ANCHOR BOLT SCHEDULE		
BOLT DIA. (d)	EMBED LENGTH (L)	PLATE SIZE
3/4"	1'-0"	1/2"X3 1/2"X3 1/2"

NOTE: USE NUT & WASHER ON EACH ANCHOR BOLT

ANCHOR BOLT DETAILS

DETAIL 6 / S0.2

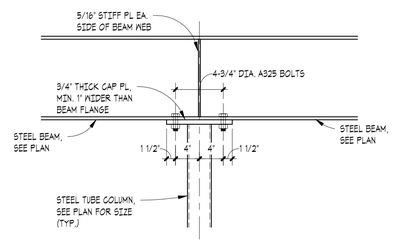
SCALE: 1 1/2" = 1'-0"



TYP. BEAM CONN. TO STEEL TUBE COLUMN DETAIL

DETAIL 11 / S0.2

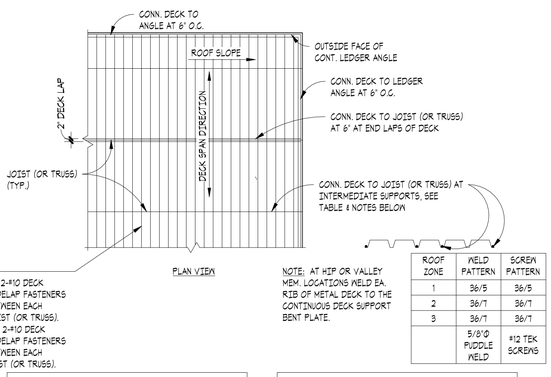
SCALE: 1" = 1'-0"



TYP. STEEL BEAM BEARING ON TOP OF STEEL TUBE COLUMN

DETAIL 12 / S0.2

SCALE: 1" = 1'-0"



PLAN VIEW

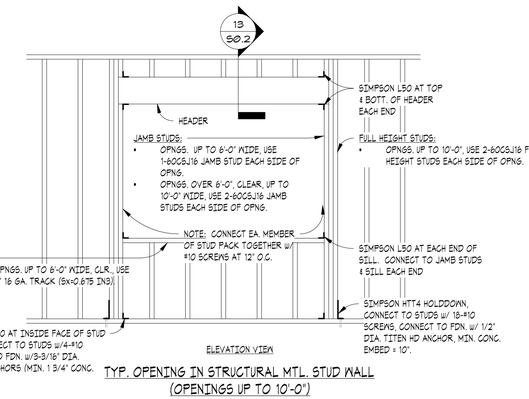
NOTE: AT HIP OR VALLEY MEM. LOCATIONS WELD EA. RIB OF METAL DECK TO THE CONTINUOUS DECK SUPPORT BENT PLATE.

ROOF ZONE	WELD PATTERN	SCREW PATTERN
1	36/5	36/5
2	36/7	36/7
3	36/7	36/7
	5/8"Ø PUDDLE WELD	#12 TEK SCREWS

DECK SUPPLIER NOTE:
DECK SUPPLIER SHALL PROVIDE CONTINUOUS BENT PLATES AT ALL LOCATIONS OF ROOF DECK SPAN DIRECTION CHANGES AND AT ALL DECK EDGES (HIPS, VALLEYS, RIDGES, RAKES, EAVES, ETC.). CONT. PLATE SHALL BE CAPABLE OF SUPPORTING THE ROOF TRIBUTARY AREA LOADING BETWEEN POINTS OF SUPPORT.

NOTES:
1. ROOF DECK ATTACHMENT BASED ON A MINIMUM TRUSS TOP CHORD OF 16-GA., 55 KSI MATERIAL. IF SUBMITTED ROOF TRUSS TOP CHORDS DO NOT MEET THESE MINIMUM REQUIREMENTS, TRUSS SPECIALTY ENGINEER SHALL PROVIDE REVISED ROOF DECK ATTACHMENT DETAILS DESIGNED TO MEET PROJECT DESIGN WIND VALUES.

TYP. ROOF DECK ATTACHMENT DIAGRAM

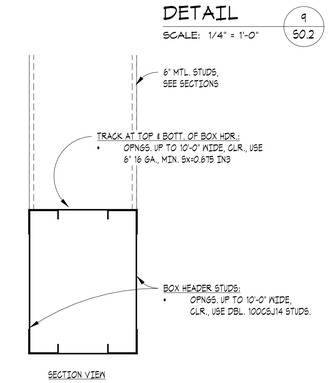


ELEVATION VIEW

TYP. OPENING IN STRUCTURAL MTL. STUD WALL (OPENINGS UP TO 10'-0")

DETAIL 10 / S0.2

SCALE: 3/8" = 1'-0"

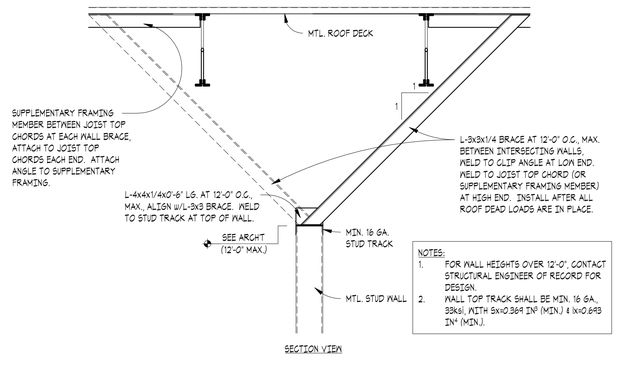


SECTION VIEW

HEADER DETAIL AT TYP. OPENING IN LOAD BEARING MTL. STUD WALL

DETAIL 13 / S0.2

SCALE: 3" = 1'-0"



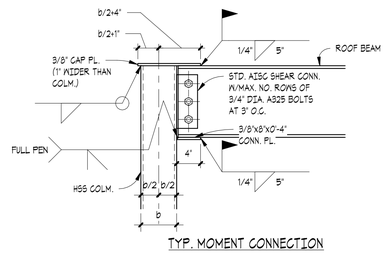
NOTES:
1. FOR WALL HEIGHTS OVER 12'-0", CONTACT STRUCTURAL ENGINEER OF RECORD FOR DESIGN.
2. WALL TOP TRACK SHALL BE MIN. 16 GA., 33ksi, WITH Sx=0.369 IN³ (MIN.) & Ix=0.693 IN⁴ (MIN.).

SECTION VIEW

TYP. NON-LOAD BEARING STUD WALL CONNECTION TO ROOF OR FLOOR STRUCTURE (STEEL JOIST CONDITION)

DETAIL 14 / S0.2

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



TYP. MOMENT CONNECTION

DETAIL 15 / S0.2

SCALE: 1" = 1'-0"

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Bradley B. Johnson, PE
PE000052284

Submittal

Phase	Date	Drw	Chk
100% CONSTRUCTION DOCUMENTS	07/21/25	PDJG	BBJ
DESIGN DEVELOPMENT	04/29/25	PDJG	BBJ

Revision

#	Description	Date

CRA Project # 24071

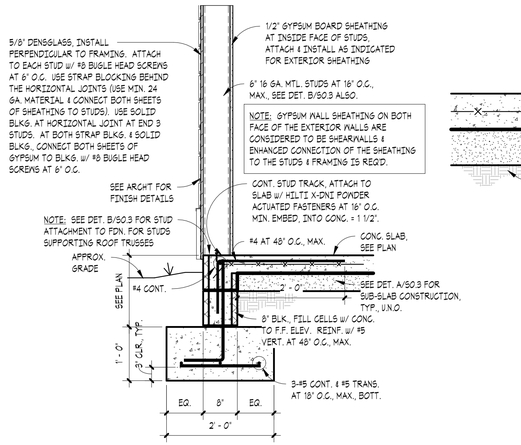
Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
DETAILS

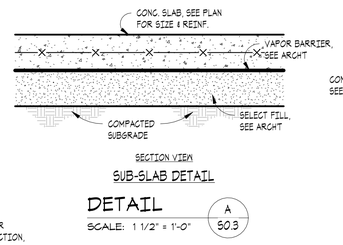
S0.2

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DOTHAN, ALABAMA 36305
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FLORIDA CERTIFICATE OF AUTHORIZATION No. 29956
jae@jae-eng.com

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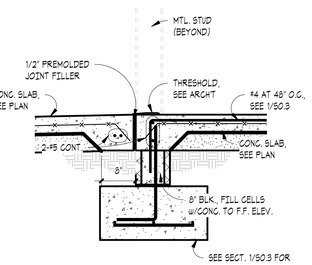
SECTION 1
SCALE: 3/4" = 1'-0"



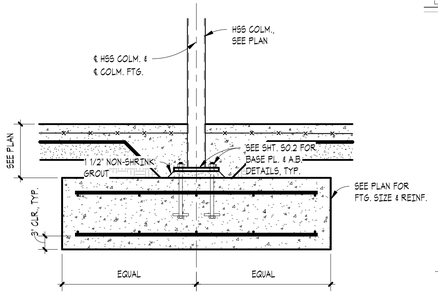
SECTION VIEW

SUB-SLAB DETAIL

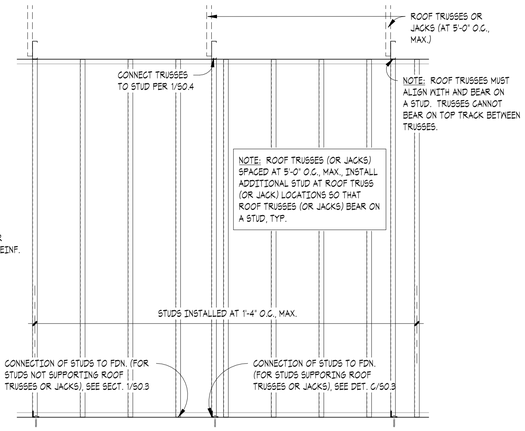
DETAIL A
SCALE: 1 1/2" = 1'-0"



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



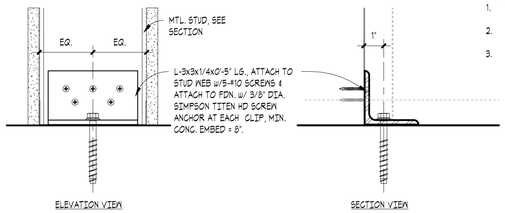
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SCALE: 3/4" = 1'-0"



ELEVATION VIEW

TYPICAL STUD WALL FRAMING

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

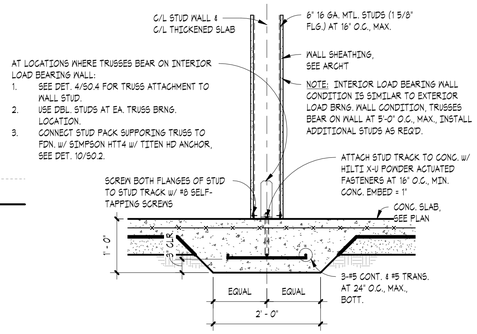


ELEVATION VIEW

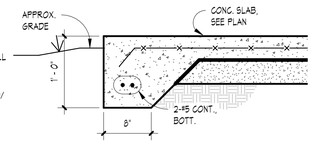
SECTION VIEW

TRUSS SUPPORTING STUD ATTACHMENT TO SLAB

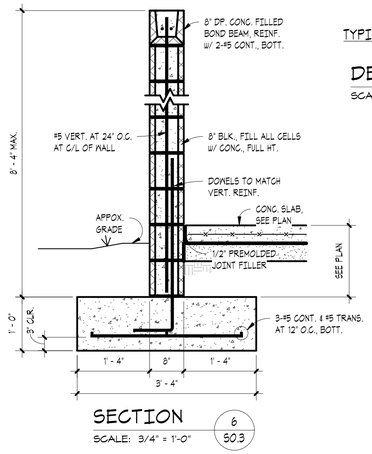
DETAIL C
SCALE: 3" = 1'-0"



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



SECTION 5
SCALE: 1" = 1'-0"



SECTION 6
SCALE: 3/4" = 1'-0"

JOHNSON & ASSOCIATES ENGINEERING
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Bradley B. Johnson, PE
PE000052284

Submittal

Phase	Date	Drw	Chk
100% CONSTRUCTION DOCUMENTS	07/21/25	PDJG	BBJ
DESIGN DEVELOPMENT	04/29/25	PDJG	BBJ

Revision

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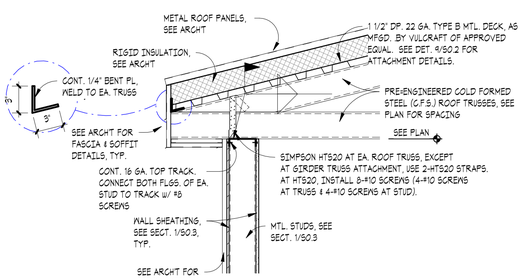
CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

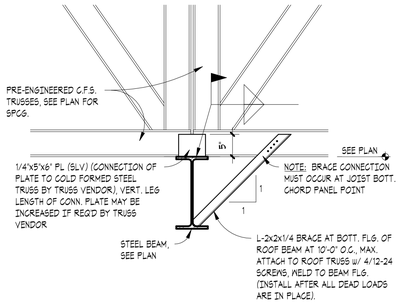
SHEET TITLE
SECTIONS

S0.3

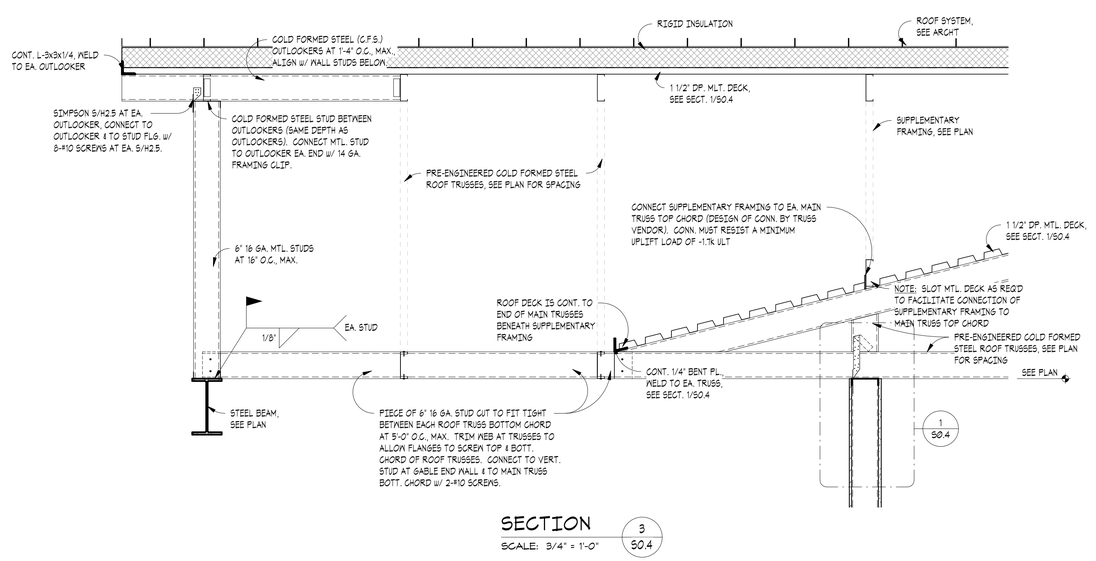
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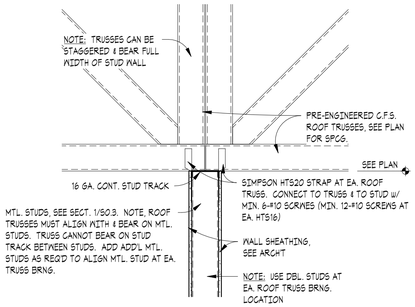
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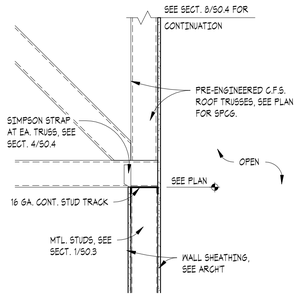
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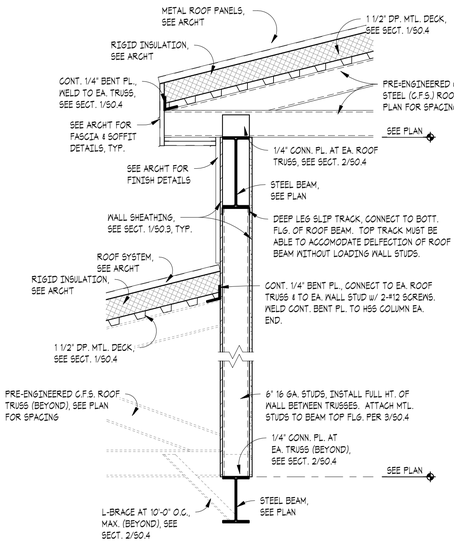
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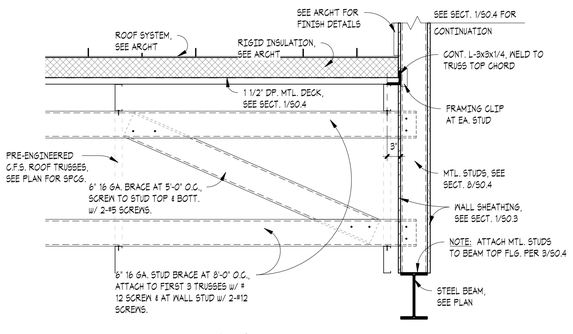
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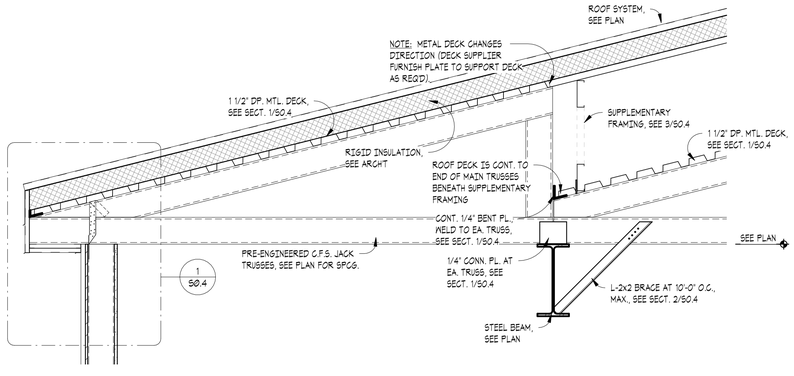
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SCALE: 3/4" = 1'-0"



SECTION 8 S0.4
SCALE: 3/4" = 1'-0"



SECTION 6 S0.4
SCALE: 3/4" = 1'-0"



SECTION 7 S0.4
SCALE: 3/4" = 1'-0"

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Bradley B. Johnson, PE
PE000052284

Submittal

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100% CONSTRUCTION DOCUMENTS	07/21/25	PDJG	BBJ
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Revision

#	Description	Date

CRA Project # 24071

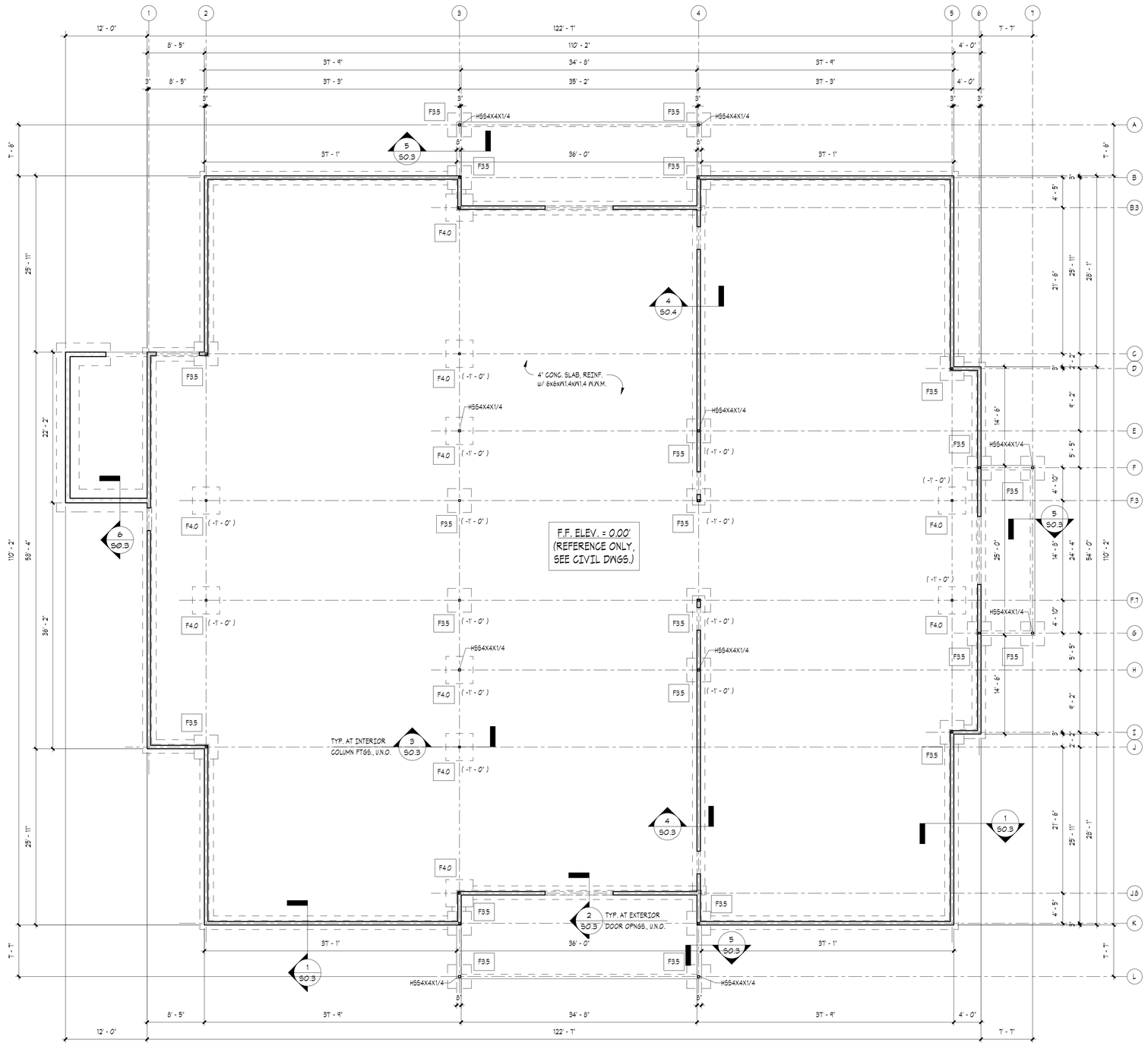
Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
SECTIONS

S0.4

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FLORIDA CERTIFICATE OF AUTHORIZATION No. 25956
jae@jae-eng.com

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FOUNDATION PLAN

North
Actual

Scale: 1/8" = 1'-0"

NOTES:

1. TOP OF ALL EXTERIOR WALL FOOTINGS 1'-4" BELOW FINISH FLOOR, UNLESS NOTED OTHERWISE (U.N.O.).
2. C.J. = CONSTRUCTION JOINT, SEE DET. 1/SO.2. S.J. = SAW JOINT, SEE DET. 2/SO.2. CONTRACTOR'S OPTION TO USE S.J. IN LIEU OF C.J.
3. SEE SHEET SO.1 FOR GENERAL STRUCTURAL NOTES.
4. STRUTURAL WALLS SHOWN. NON-STRUCTURAL DEMISING WALLS NOT SHOWN.
5. FOUNDATION PLAN PLANE IS SHOWN AT APPROXIMATELY TOP OF SLAB ELEVATION.
6. ALL STEEL COLUMNS SHOWN ARE HSS 3 1/2X3 1/2X1/4 W/ TYPE I BASE PL., U.N.O.

COLUMN FOOTING SCHEDULE	
MARK NO.	DESCRIPTION
F3.5	3'-6" SQ. X 1'-4" DP. FTG., REINF. W/4-#5 EA. WAY, TOP & BOTT.
F4.0	4'-0" SQ. X 1'-4" DP. FTG., REINF. W/4-#5 EA. WAY, TOP & BOTT.

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Revision

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Phase: 100% CONSTRUCTION DOCUMENTS

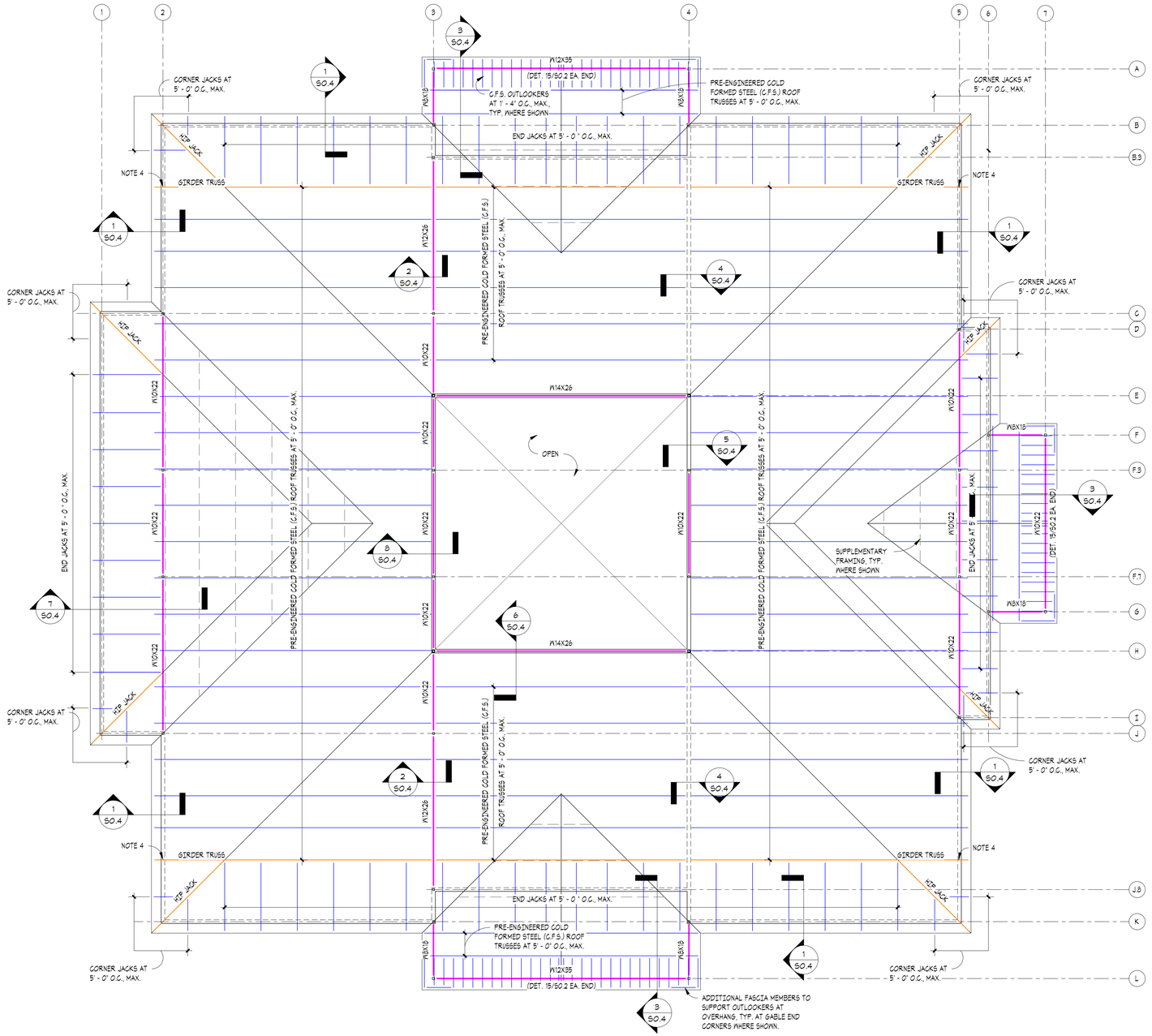
SHEET TITLE

FOUNDATION PLAN

S1.1

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FLORIDA CERTIFICATE OF AUTHORIZATION No. 25956
jae@jaeeng.com

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LOW ROOF FRAMING PLAN

North

Scale: 1/8" = 1'-0"

Actual

NOTES:

1. TRUSS BRNG., THIS LEVEL, + 10' - 0", U.N.O.
2. TOP OF STEEL BEAMS, THIS LEVEL, + 10' - 0", U.N.O.
3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.
4. ATTACH GIRDER TRUSS AS FOLLOWS:
   TRUSS TO WALL STUDS: USE 2 - SIMPSON HTS 20 STRAPS AT EA. GIRDER TRUSS.
   STUD TO FDN.: USE SIMPSON HTT4, SEE 10/S0.2.

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Revision

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CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE

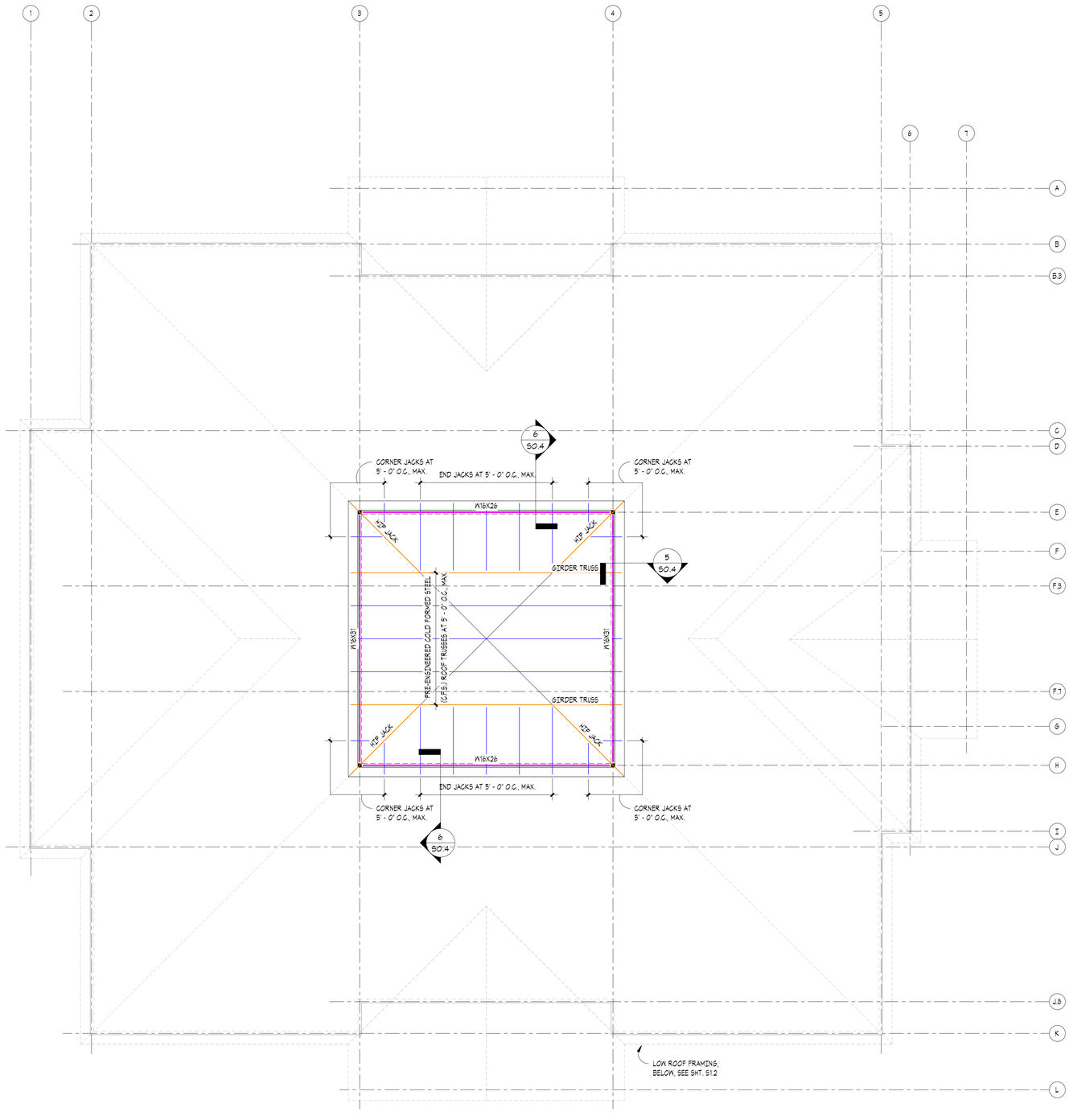
LOW ROOF FRAMING PLAN

S1.2

JOHNSON & ASSOCIATES ENGINEERING
PROFESSIONAL CONSULTING ENGINEERS
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DOTHAN, ALABAMA 36305
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HIGH ROOF FRAMING PLAN

North
Actual

Scale: 1/8" = 1'-0"

NOTES:

1. TRUSS BRNG., THIS LEVEL, = 28' - 0", U.N.O.
2. TOP OF STEEL BEAMS, THIS LEVEL, = 28' - 0", U.N.O.
3. SEE SHEET S0.1 FOR GENERAL STRUCTURAL NOTES.

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Revision

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CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE

HIGH ROOF FRAMING PLAN

S1.3

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FIRESTOP SCHEDULE OF THROUGH PENETRATION SYSTEMS. BASIS OF DESIGN: HILTI, INC.

TYPE OF PENETRANT	F-RATING (HR)	CONCRETE FLOORS	CONCRETE OR BLOCK WALLS	GYPSUM WALLS	HILTI PRODUCTS
		BASIS OF DESIGN UL SYSTEM			
CIRCULAR BLANK OPENINGS (0000-0999)	1	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090	--	CP 680, CP 618, FS-ONE MAX, CFS- BL
	2	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090	--	
METAL PIPES OR CONDUIT (1000-1999)	1	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020	W-L-1054, W-L-1058, W-L-1164, W-L-1506	CP 680, FS-ONE MAX, CP 606, CFS-S SIL GG, CFS-D, MINERAL WOOL
	2	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020, W-J-1248	W-L-1054, W-L-1058, W-L-1164, W-L-1506	
NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP, ENT) (2000-2999)	1	F-A-2053, F-A-2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	CP 680, CP 643N, MINERAL WOOL, CP 644, FS-ONE MAX, CFS-S SIL SL, CFS-S SIL CG, CP 648
	2	F-A 2053, F-A 2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2371, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	
INSULATED PIPES (5000-5999)	1	F-A 5015, F-A 5017, C-AJ-5090, C-AJ-5091, C-AJ-5090, C-AJ-5048	C-AJ-5090, C-AJ-5091, C-AJ 5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047	CP 680, FS-ONE MAX, MINERAL WOOL
	2	F-A 5015, F-A 5017, C-AJ-5090, C-AJ-5091, C-AJ-5090	C-AJ-5090, C-AJ-5091, C-AJ-5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047	
MIXED PENETRANTS (8000-8999)	1	C-AJ-8099, C-AJ-8056, C-AJ-8143	C-AJ-8099, C-AJ-8056, W-J-8007, C-AJ-8143	W-L-1095, W-L-8013	FS-ONE MAX, CFS-BL, CP 620, CP 618
	2	C-AJ-8099, C-AJ-8056, C-AJ-8143, C-AJ-8252	C-AJ 8099, C-AJ-8056, W-J-8007, C-AJ-8143, C-AJ-8252	W-L-1095, W-L-8013	

NOTES:

1. JOBSITE CONDITIONS OF EACH THROUGH-PENETRATION FIRESTOP SYSTEM MUST MEET ALL DETAILS OF THE UL-CLASSIFIED SYSTEM SELECTED.
2. IF JOBSITE CONDITIONS DO NOT MATCH ANY UL-CLASSIFIED SYSTEMS IN THE SCHEDULES ABOVE, CONTACT FIRESTOP MANUFACTURER FOR ALTERNATIVE SYSTEMS OR ENGINEER JUDGMENT DRAWINGS.
3. WHERE MORE THAN ONE APPLICABLE UL-CLASSIFIED SYSTEM IS LISTED IN THE SCHEDULES, CHOOSE THE UL SYSTEM WHICH IS MOST ECONOMICAL FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM.
4. COORDINATE WORK WITH OTHER TRADES TO ENSURE THAT PENETRATION OPENING SIZES ARE APPROPRIATE FOR PENETRANT LOCATIONS, AND VICE-VERSA.
5. ALL THROUGH-PENETRATION FIRESTOPS SHALL BE PROVIDED BY ONE MANUFACTURER. APPROVED MANUFACTURES: HILTI, RECTORSEAL, 3M, STL.

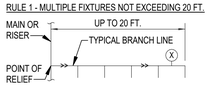
WATER HAMMER ARRESTERS

GROUPED FIXTURES

TABLE 1 - FOR GROUPED FIXTURES

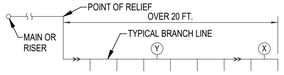
P.D.I. UNITS	AA	A	B	C	D	E	F
FIXTURE UNITS	1-3	1-11	12-32	33-60	61-113	114-154	155-330

RULE 1 - MULTIPLE FIXTURES NOT EXCEEDING 20 FT.



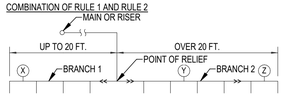
SELECTION METHOD:
USING TABLE 1, SIZE UNIT "X" FOR THE TOTAL FIXTURE UNITS OF BRANCH LINE.

RULE 2 - MULTIPLE FIXTURES EXCEEDING 20 FT.



SELECTION METHOD:
SIZE UNIT "X" AND UNIT "Y" SO THE SUM OF THE RATINGS IS EQUAL TO OR GREATER THAN TOTAL FIXTURE UNITS OF BRANCH LINE.

COMBINATION OF RULE 1 AND RULE 2



SELECTION METHOD:
USING TABLE 1, SIZE UNIT "X" FOR BRANCH 1 BASE ON RULE 1. SIZE UNITS "Y" AND "Z" BASED ON RULE 2.

LONG RUNS

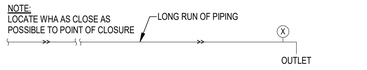
TABLE 2 - WATER PRESSURES UP TO 65 P.S.I.G.

LENGTH OF PIPE (FT.)	P.D.I. WATER HAMMER ARRESTERS NOMINAL PIPE DIAMETER 1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25	A	A	B	C	D	E
50	A	B	C	D	E	F
75	B	C	D	AB	F	EF
100	C	D	E	F	CF	FF
125	C	D	F	AF	EF	EFF
150	D	E	F	DF	FF	FFF

TABLE 2A - WATER PRESSURES 65 P.S.I.G. TO 85 P.S.I.G.

LENGTH OF PIPE (FT.)	P.D.I. WATER HAMMER ARRESTERS NOMINAL PIPE DIAMETER 1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25	B	B	B	D	E	F
50	B	C	C	E	F	CF
75	C	D	D	F	CF	FF
100	D	E	E	CF	EF	EFF
125	D	E	E	DF	FF	BFFF
150	E	F	F	FF	DFF	FFFF

NOTE:
LOCATE WHA AS CLOSE AS POSSIBLE TO POINT OF CLOSURE



SELECTION METHOD:
USING EITHER TABLE 2 OR 2A (BASED ON SYSTEM PRESSURE), SIZE UNIT "X" BASED ON SIZE OF PIPE AND LENGTH OF RUN.

GENERAL NOTE:
PROVIDE WATER HAMMER ARRESTERS IN ACCORDANCE WITH STANDARD PDI-WH201

APPLICABLE CODES

PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

1. ASHRAE
   a. STANDARD 15 — SAFETY STANDARD FOR REFRIGERATION SYSTEMS - 2019
   b. STANDARD 90.1 — ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS - 2019
2. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA).
3. NATIONAL FIRE CODES
   a. NFPA 1 — UNIFORM FIRE CODE - 2021 (FLORIDA EDITION)
   b. NFPA 70 — NATIONAL ELECTRICAL CODE - 2020
   c. NFPA 101 — LIFE SAFETY CODE - 2021 (FLORIDA EDITION)
4. FLORIDA BUILDING CODE, 2023 EDITION
   a. BUILDING CODE
   b. ENERGY CONSERVATION CODE
   c. PLUMBING CODE
   d. ACCESSIBILITY CODE
5. FLORIDA STATUTES
   a. CHAPTER 471 — ENGINEERING
   b. CHAPTER 533.80 — BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT
6. FLORIDA ADMINISTRATIVE CODE
   a. CHAPTER 9B-7 — FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
   b. CHAPTER 61G15-34 — RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS
   c. CHAPTER 69A-3 — FIRE PREVENTION - GENERAL PROVISIONS.
   d. CHAPTER 69A-60 — THE FLORIDA FIRE PREVENTION CODE

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

PIPING AND FITTINGS

	CAP
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE, OUTLET UP
	TEE, OUTLET DOWN
	SANITARY, SOIL OR WASTE PIPING
	SANITARY VENT PIPING
	COLD WATER SUPPLY PIPING
	HOT WATER SUPPLY PIPING
	HOT WATER RECIRCULATION PIPING
HB	HOSE BIBB
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTER - SEE DETAIL THIS SHEET
FD	FLOOR DRAIN - SEE DETAIL J/P501
FD	SQUARE FLOOR DRAIN - SEE DETAIL J/P501
WCO	WALL CLEAN OUT - SEE DETAIL E/P501
CO	CLEAN OUT - SEE DETAIL E/P501

VALVES

NO NC	BALL VALVE (WITH QUARTER TURN HANDLE)
	CHECK VALVE

MISCELLANEOUS

	HINGED CEILING ACCESS PANEL
MIN. I.E. 90° B.F.F.	MINIMUM INVERT ELEVATION BELOW REFERENCE ELEVATION
	POINT OF CONNECTION, PLUMBING TO CIVIL
	2 HOUR FIRE RATED WALL

MINIMUM REQUIRED SLOPE

ALL DRAINAGE PIPING

PIPE SIZES, INCHES	MIN. SLOPE INCHES/FOOT
2"	1/4"
3"	1/8"
4"	1/8"
6"	1/8"
8"	1/16"
10"	1/16"

NOTES:
1. COMBINATION DRAIN AND VENT PIPING SHALL BE RUN AT A MAXIMUM SLOPE OF 1/2" PER FOOT.

GENERAL NOTES

1. INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2023, THE FLORIDA FIRE PREVENTION CODE, THE NATIONAL ELECTRICAL CODE 2020 EDITION, AND ALL CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION AT THIS SITE. WHERE CONFLICTS OCCUR BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
2. DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.
3. FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, CONTRACTOR IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF CONTRACTOR PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THEREWITH.
4. BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH CONTRACTOR WILL BE OBLIGED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON CONTRACTOR'S PART.
5. THE CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH CONTRACTOR'S WORK.
6. CONSTRUCTION MANAGER OR GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEQUENCING AND COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
7. WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
8. ERECT AND MAINTAIN ALL REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
9. THE CONTRACTOR SHALL PROVIDE MANPOWER AND EQUIPMENT NECESSARY TO MAINTAIN THE PROJECT SCHEDULE.
10. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS DESIGNATED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS AND IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS.
11. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
12. THE CONTRACTOR SHALL FURNISH "AS-BUILT" RECORD DOCUMENTS TO THE OWNER AT COMPLETION OF CONSTRUCTION.
13. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
14. CONTRACTOR'S APPROVAL STAMP ON SUBMITTALS AND SHOP DRAWINGS CERTIFIES THAT THE CONTRACTOR HAS REVIEWED THE DOCUMENTS AND THAT THE CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN ADHERED TO.
15. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
16. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKER BOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
17. ENTRY AND/OR REMOVAL OF EQUIPMENT FROM THE BUILDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DISMANTLE AND REASSEMBLE EQUIPMENT AS NECESSARY FOR ENTRY INTO THE BUILDING AND/OR EQUIPMENT ROOMS. CONTRACTOR SHALL PATCH AND REPAIR ANY DAMAGED MATERIALS TO MATCH THE ADJACENT UNDAMAGED SURFACES.
18. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
19. SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
20. ALL EXTERIOR STRUCTURES AND EQUIPMENT SHALL BE INSTALLED TO RESIST 130 MPH WIND LOAD.
21. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE WALL ASSEMBLIES AND ACOUSTICAL WALLS.
22. BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
23. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS.
24. CONTRACTOR SHALL COMPLY WITH "TRENCH SAFETY ACT" (FLORIDA STATUTE 553 PART III) AND OSHA STANDARD 29 CFR 1926.650 SUBPART P FOR ALL UTILITY TRENCHES IN EXCESS OF 5 FEET DEEP. CONTRACTOR SHALL INDICATE WITHIN HIS BID RESPONSE A REFERENCE TO THE TRENCH SAFETY STANDARD AND A SEPARATE LINE ITEM COST OF COMPLIANCE WITH STANDARD.

PLUMBING NOTES

1. INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA PLUMBING CODE AND LOCAL PLUMBING CODES. WHERE CONFLICTS OCCUR BETWEEN CODES AND BETWEEN THE CONSTRUCTION DOCUMENTS AND CODES, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
2. ALL MISCELLANEOUS EQUIPMENT TO BE FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS THAT REQUIRE PIPING OR DUCT CONNECTIONS SHALL BE RECEIVED AND SET WITH ROUGH-IN AND FINAL CONNECTIONS MADE UNDER THESE SECTIONS.
3. PRESSURE TEST ALL WATER PIPING SYSTEMS AT 150% OF NORMAL WORKING PRESSURE.
4. ALL COPPER PRESSURE PIPE SHALL BE SOLDERED ENTIRELY WITH LEAD-FREE SOLDER.
5. INSTALLATION OF EQUIPMENT AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR MAINTENANCE.
6. ALL FLOOR DRAINS AND FLOOR SINKS SHALL HAVE MINIMUM 3" DRAIN LINES, DEEP SEAL TRAPS AND AUTOMATIC TRAP PRIMERS (MANUFACTURER: PRECISION PLUMBING PRODUCTS).
7. WATER HAMMER ARRESTERS SHALL BE INSTALLED IN ACCORDANCE WITH PDI-WH201.
8. ALL HOSE BIBBS, SILL COCKS AND/OR FAUCETS WITH HOSE CONNECTIONS SHALL HAVE A VACUUM BREAKER.
9. GRAVITY FLOW SYSTEMS HAVE SPACE PRIORITY FOR SLOPING PIPES, HOWEVER SLOPE MUST BE STARTED AT HIGHEST POINT POSSIBLE.
10. ALL WATER PIPING SUBJECT TO FREEZING SHALL BE FREEZE PROTECTED. THIS INCLUDES ALL PIPING IN UNHEATED SPACES SUCH AS EQUIPMENT ROOMS, CHASES, ATTICS, SOFFITS, CRAWL SPACES, EXTERIOR WALLS, CEILINGS, ETC.
11. DO NOT LOCATE FLOOR DRAINS/SINKS UNDER EQUIPMENT. COORDINATE EXACT LOCATION OF DRAINS/SINKS WITH EQUIPMENT FURNISHED.
12. ALL PLUMBING VENTS SHALL BE 2" MINIMUM, UNLESS NOTED OTHERWISE.
13. PROVIDE ACCESS PANEL AT EACH LOCATION WHERE A VALVE OR OTHER DEVICE REQUIRING SERVICE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL. ACCESS PANEL SHALL BE FIRE RATED IF INSTALLED IN A FIRE RATED CEILING OR WALL.
14. A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE, SOIL STACK OR RAIN LEADER, WHETHER SHOWN ON THE DRAWINGS OR NOT.
15. ANY PIPE THAT PASSES UNDER A FOOTING OR THROUGH A FOUNDATION WALL SHALL BE PROVIDED WITH A RELIEVING ARCH, OR A PIPE SLEEVE. SLEEVE SHALL BE BUILT INTO THE FOUNDATION WALL. THE SLEEVE SHALL BE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH THE WALL.

ABBREVIATIONS

AC	ABOVE CEILING	IE	INVERT ELEVATION
AF	ABOVE FLOOR	IMB	ICE MAKER HOOK-UP BOX
AFF	ABOVE FINISHED FLOOR	LV	LAVATORY
AHAP	AS HIGH AS POSSIBLE	MSB	MOP SERVICE BASIN
BF	BELOW FLOOR	N/A	NOT APPLICABLE
BG	BELOW GRADE	PSAN	SANITARY
CWS	COLD WATER SUPPLY	PVENT	VENT
CWV	COMBINATION WASTE & VENT	SFU	SUPPLY FIXTURE UNIT
DFU	DRAINAGE FIXTURE UNIT	SK	SINK
DN	DOWN	TYP	TYPICAL
EX	EXISTING	UR	URINAL
EWC	ELECTRIC WATER COOLER	VTR	VENT THROUGH ROOF
FD	FLOOR DRAIN	W	WATER HAMMER ARRESTOR
HB	HOSE BIBB	WC	WATER CLOSET
HP	HORSEPOWER	WCO	WALL CLEANOUT
HWS	HOT WATER SUPPLY	WH	WALL HYDRANT
HWR	HOT WATER RECIRCULATION		

DRAWING INDEX

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P401	SCHEDULES
P501	DETAILS

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WAKULLA COUNTY BOCC

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CRAWFORDVILLE, FL

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	FPH	MPP

Revision

#	Description	Date

CRA Project # 24071

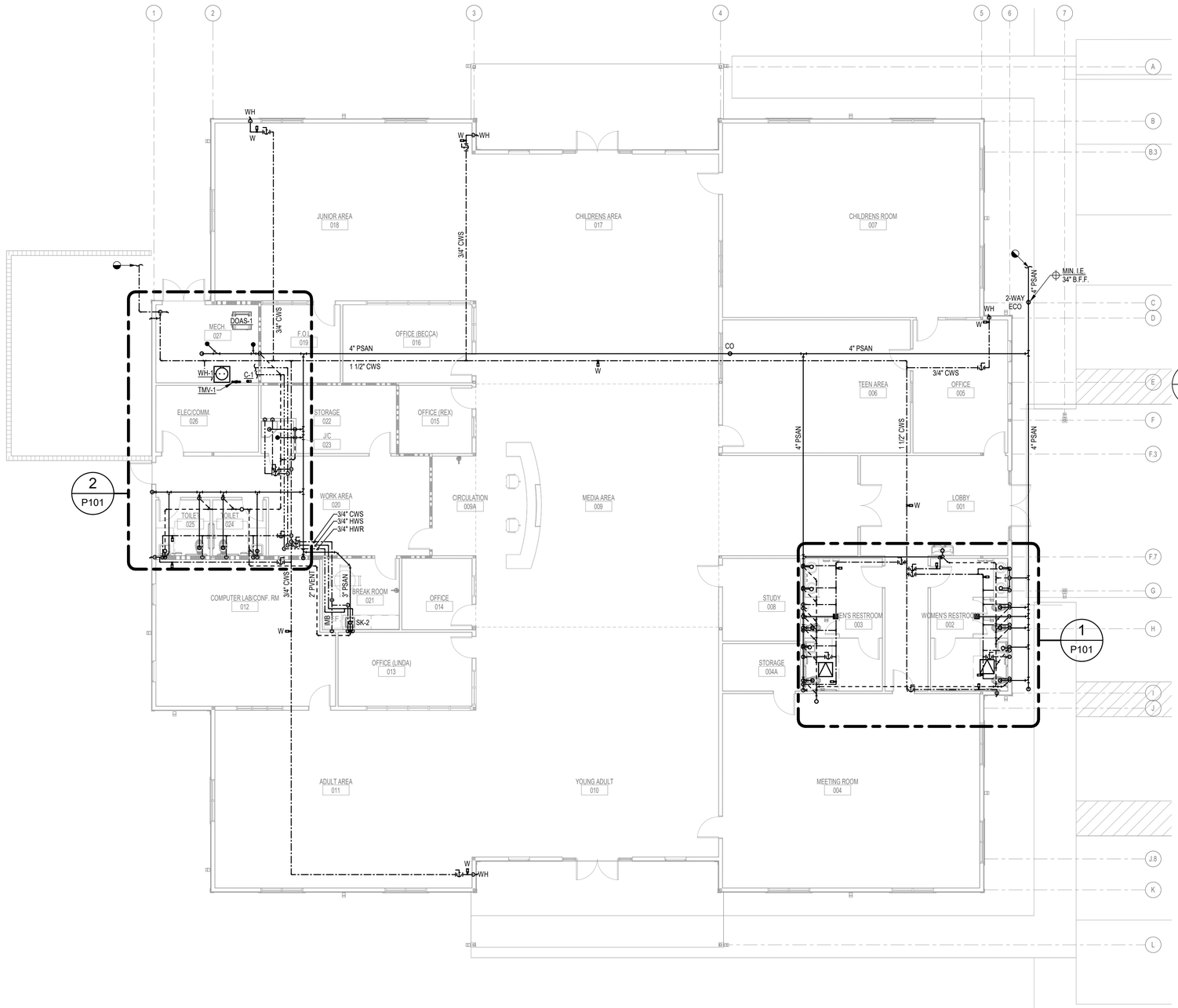
Phase: 100% CONSTRUCTION DOCUMENTS

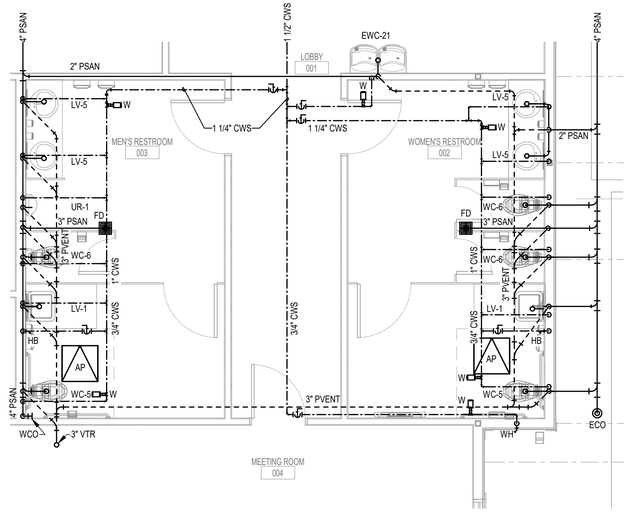
SHEET TITLE

GENERAL NOTES & LEGENDS

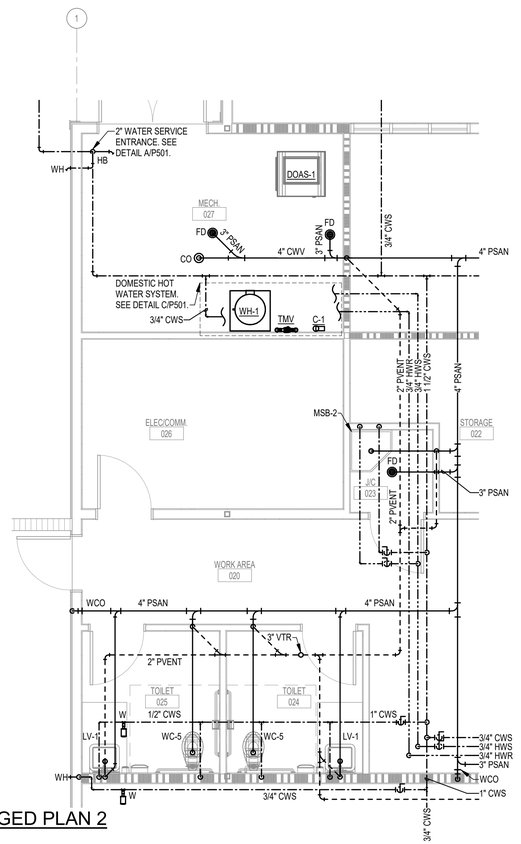
P001

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1 P101 ENLARGED PLAN 1
1/4" = 1'-0"



2 P101 ENLARGED PLAN 2
1/4" = 1'-0"

North
FLOOR PLAN
Scale: 1/8" = 1'-0"

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	FPH	MPP

Revision

#	Description	Date

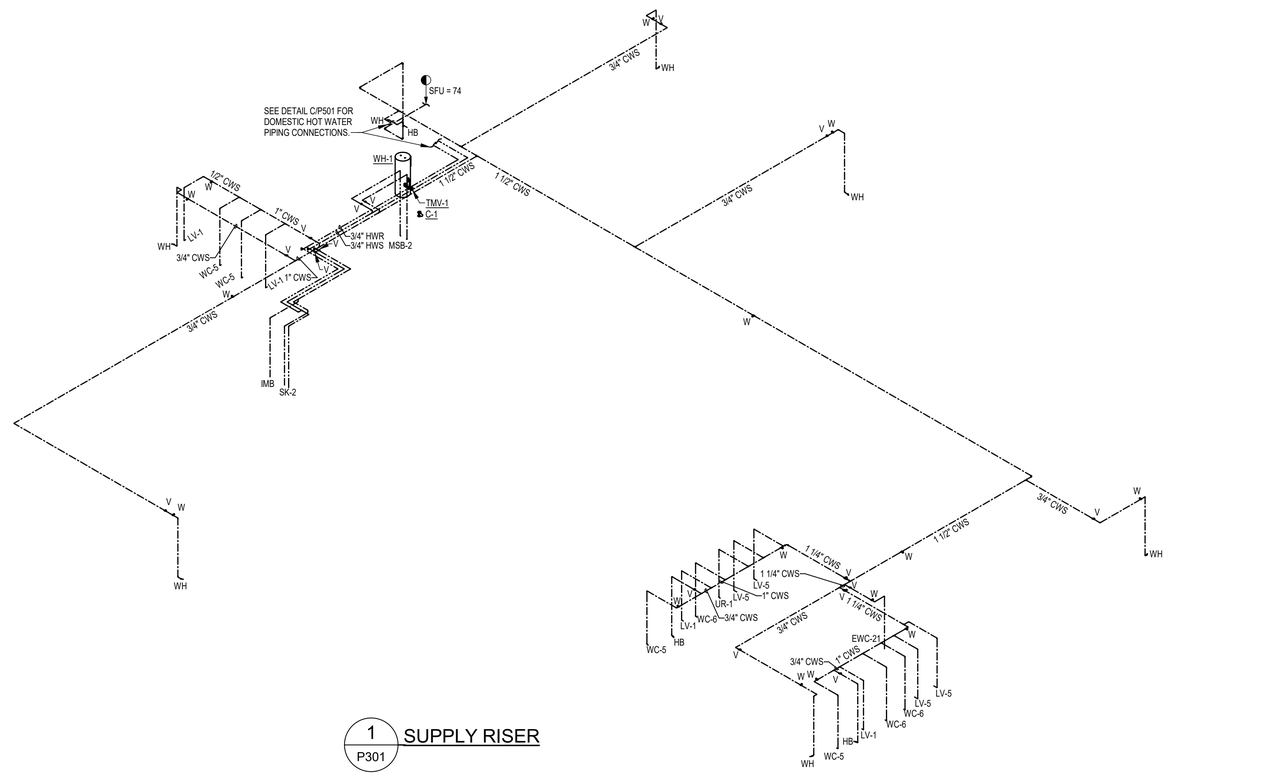
CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

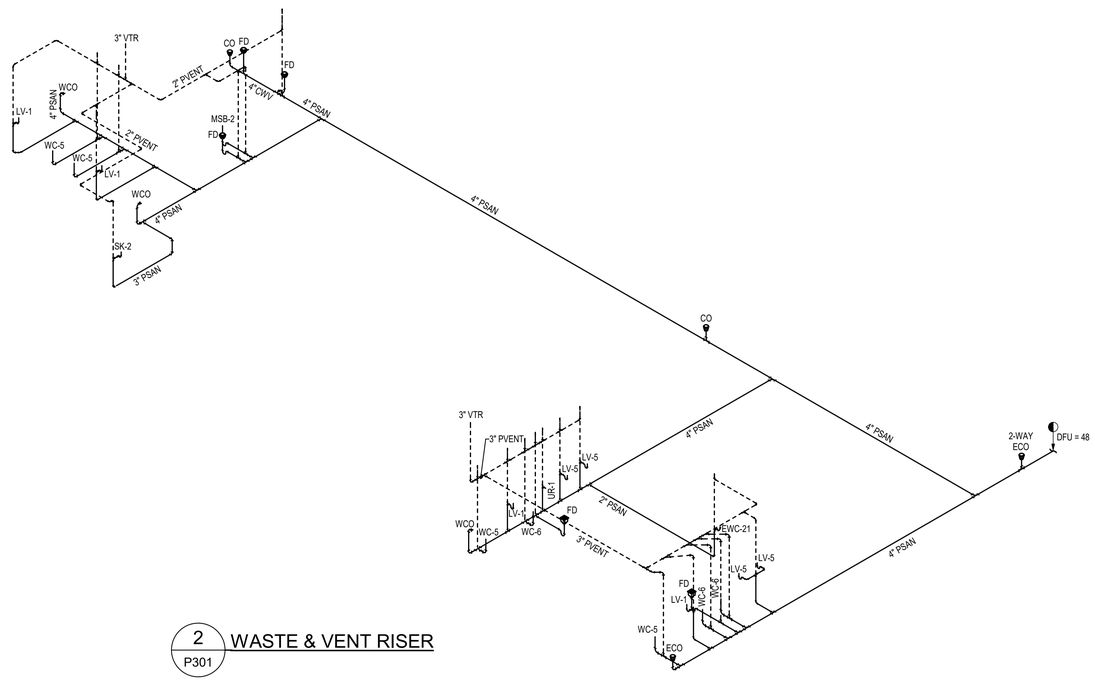
SHEET TITLE
FLOOR PLAN

P101

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1 P301 SUPPLY RISER



2 P301 WASTE & VENT RISER

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H2E PROJECT No.24/02

Florida Registry #2485
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100% CDs	7/21/25	FPH	MPP

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE

RISER DIAGRAMS

P301

7/21/2025 5:11:55 PM Autodesk Docs://24-092 Wakulla County Library/24-092 MEPCentral_Wakulla County Library_R25.rvt

PLUMBING FIXTURE ACCESSORY SCHEDULE

ACCESSORY TAG	ACCESSORY DESCRIPTION	MANUFACTURER AND MODEL NUMBER
DR-LV-C	1-1/4" CHROME PLATED BRASS OFFSET DRAIN WITH TAIL PIECE. PROVIDE A PERFORATED FLAT CHROME BRASS STRAINER.	ELKAY: LKAD174 OR APPROVED EQUAL
DR-SK-STD	TYPE 304 STAINLESS STEEL DRAIN, REMOVEABLE CONICAL STRAINER BASKET, 1-1/2" STAINLESS STEEL OFFSET TAILPIECE.	ELKAY: LK35/LKAD35 OR APPROVED EQUAL
FCT-LV-0.5-AUTO-B	SINGLE INLET, DECK MOUNTED FAUCET, A.D.A. COMPLIANT, 4" CENTERSET, POLISHED CHROME PLATED BRASS, LEAD FREE, BATTERY POWERED, SENSOR OPERATED, 0.5 GPM AERATOR WITH PRESSURE COMPENSATING FLOW CONTROL.	AMERICAN STANDARD: 605B.205 OR APPROVED EQUAL
FCT-MSB	SERVICE SINK FAUCET, POLISHED CHROME PLATED BRASS, BUILT-IN STOPS, VACUUM BREAKER, LEVER HANDLES, WALL BRACE, 3/4" HOSE OUTLET.	T&S BRASS: B-0665-BSTP OR APPROVED EQUAL
FCT-SK-1.5-GEN-SPRAY	SINGLE LEVER DECK MOUNTED FAUCET, POLISHED CHROME PLATED BRASS, 9" SWING SPOUT, 1.5 GPM AT 80 PSI AERATOR, HOSE AND SPRAY, SOFT-CLOSING VALVE WITH INTEGRAL FLOW CONTROL AND ADJUSTABLE STOP TO RESTRICT EXTREME TEMPERATURES. PROVIDE COVER PLATE.	T&S BRASS: B-2730 OR APPROVED EQUAL
FV-0.125-MAN	EXPOSED MANUAL, PISTON TYPE, URINAL FLUSH VALVE, A.D.A. COMPLIANT, POLISHED CHROME PLATED, 1" SCREWDRIVER ANGLE STOP, VACUUM BREAKER, CAST WALL FLANGE.	AMERICAN STANDARD: 6045.013.002 OR APPROVED EQUAL
FV-1.28-MAN	EXPOSED MANUAL, PISTON TYPE, WATER CLOSET FLUSH VALVE, A.D.A. COMPLIANT, POLISHED CHROME PLATED, 1.28 GPF, 1" SCREWDRIVER ANGLE STOP, VACUUM BREAKER, CAST WALL FLANGE.	AMERICAN STANDARD: 6047.121.002 OR APPROVED EQUAL
HGR-MSB	STAINLESS STEEL HANGER, WITH THREE RUBBER TOOL GRIPS.	FIAT: 889CC OR APPROVED EQUAL
HOSE-MSB	HEAVY DUTY, FLEXIBLE HOSE, 5/8" RUBBER, CLOTH REINFORCED, 3/4" BRASS COUPLING, TYPE 302 STAINLESS STEEL BRACKET WITH RUBBER GRIP.	FIAT: 832AA OR APPROVED EQUAL
RMGD-MSB	ALUMINUM RIM GUARD.	FIAT: 1239BB OR APPROVED EQUAL
SEAT-OPN-FRT	EXTRA HEAVY DUTY, OPEN FRONT, ELONGATED SEAT, WITHOUT COVER, SOLID PLASTIC, SELF-SUSTAINING CHECK TYPE HINGE. HINGES SHALL MATCH SEAT COLOR. STAINLESS STEEL POSTS FITTED WITH STAINLESS STEEL WASHERS AND NUTS.	BEMIS: 1655SSCT OR APPROVED EQUAL
TR-LV	CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1-1/4" x 1-1/2", CLEANOUT PLUG, POLISHED CHROME PLATED FINISH.	ELKAY: LK500 OR APPROVED EQUAL
TR-SK-STD	CAST BRASS ADJUSTABLE P-TRAP, TUBING OUTLET, 1-1/2" x 1-1/2", CLEANOUT PLUG, POLISHED CHROME PLATED FINISH.	KOHLER: K-9000-CP OR APPROVED EQUAL

PLUMBING FIXTURE SCHEDULE

FIXTURE DESIGNATION	FIXTURE DESCRIPTION	A.D.A. COMPLIANT	MOUNTING METHOD	HEIGHT (A.F.F.)	ROUGH-IN PIPE SIZES				MANUFACTURER AND MODEL NUMBER	ACCESSORIES (SEE SCHEDULE)
					COLD WATER SUPPLY	HOT WATER SUPPLY	FIXTURE TRAP	FIXTURE DRAIN		
WC-5	TANK TYPE WATER CLOSET, STANDARD FLOW (1.6 GPF), VITREOUS CHINA, PRESSURE ASSISTED SIPHON JET FLUSHING ACTION, ELONGATED RIM, 1-1/2" TOP SPUD, MIN. 2" BALLPASS TRAPWAY, WITH CHINA BOLT CAPS AND BEESWAX GASKET. COLOR: WHITE.	YES	FLOOR	RIM: 16-1/2"	1/2"	N/A	4"	4"	AMERICAN STANDARD: 2467.016 OR APPROVED EQUAL	SEAT-OPN-FRT FV-1.28-MAN
WC-6	TANK TYPE WATER CLOSET, STANDARD FLOW (1.6 GPF), VITREOUS CHINA, PRESSURE ASSISTED SIPHON JET FLUSHING ACTION, ELONGATED RIM, 1-1/2" TOP SPUD, MIN. 2" BALLPASS TRAPWAY, WITH CHINA BOLT CAPS AND BEESWAX GASKET. COLOR: WHITE.	NO	FLOOR	RIM: 15"	1/2"	N/A	4"	4"	AMERICAN STANDARD: 2462.016 OR APPROVED EQUAL	SEAT-OPN-FRT FV-1.28-MAN
UR-1	FLUSH VALVE URINAL, ULTRA HIGH EFFICIENCY (0.125 - 1.0 GPF), VITREOUS CHINA, WASHOUT FLUSHING ACTION, 3/4" TOP SPUD. COLOR: WHITE.	YES	WALL	RIM: 17"	3/4"	N/A	2"	2"	AMERICAN STANDARD: 6590.001 OR APPROVED EQUAL	FV-0.125-MAN
LV-1	LAVATORY, 20"x18", VITREOUS CHINA,3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), ANTI-SPLASH RIM AND HIGH BACK. COLOR: WHITE.	YES	WALL	RIM: 34"	1/2"	N/A	1-1/4"	2"	AMERICAN STANDARD: 0355.012 OR APPROVED EQUAL	FCT-LV-0.5-AUTO-B DR-LV-C TR-LV
LV-5	LAVATORY, 20"x17" OVAL, VITREOUS CHINA, 3 FAUCET HOLES (ONE CENTERED, TWO 4" OFF CENTER), SELF-RIMMING. COLOR: WHITE.	YES	COUNTER TOP	SEE ARCH. PLANS	1/2"	N/A	1-1/4"	2"	AMERICAN STANDARD: 0440.444.EC OR APPROVED EQUAL	FCT-LV-0.5-AUTO-B DR-LV-C TR-LV
SK-2	SINGLE COMPARTMENT SINK, SELF-RIMMING, 22"x19-1/2", 18"x14"x10-1/8" DEEP BOWL, 18 GAUGE TYPE 304 STAINLESS STEEL, 4 FAUCET HOLES (ONE CENTERED, TWO 4" FROM CENTER, ONE 8" FROM CENTER), SOUND DEADENING COATING ON BOTTOM OF SINK.	NO	COUNTER TOP	SEE ARCH. PLANS	1/2"	1/2"	1-1/2"	2"	ELKAY: DLR221910-4 OR APPROVED EQUAL	FCT-SK-1.5-GEN-SPRAY DR-SK-STD TR-SK-STD
MSB-2	MOP SERVICE SINK BASIN, 24"L x 24"W x 12"H, WITH 2" WIDE SHOULDERS, 1/4" PITCH TOWARD INSIDE, PRECAST TERRAZZO (MINIMUM 3,000 PSI @ 7 DAYS), SURFACE GROUND AND POLISHED WITH ALL HOLES AND PITS GROUTED AND WITH EXCESS REMOVED. COLOR: BLACK & WHITE MARBLE CHIPS IN GRAY PORTLAND CEMENT.	NO	FLOOR	---	1/2"	1/2"	3"	3"	FIAT: TSB-200 OR APPROVED EQUAL	FCT-MSB RMGD-MSB HOSE-MSB HGR-MSB
IMB	ICE MAKER HOOK-UP BOX, 20 GAUGE STEEL, WHITE POWDER-COATED, ALL WELDED WATER TIGHT CONSTRUCTION, COLD WATER SUPPLY VALVE WITH 1/2" COPPER SWEAT INLET AND 1/4" COMPRESSION OUTLET AND WATER HAMMER ARRESTER.	N/A	WALL RECESSED	--	1/2"	N/A	N/A	N/A	GUY GRAY: MIB1HAAB OR APPROVED EQUAL	
EWC-21	ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION, FILTERED, BARRIER-FREE, TYPE 304 STAINLESS STEEL BASIN, BRUSHED FINISH, VANDAL-RESISTANT BUBBLER, STAINLESS STEEL CABINET AND CANE APRON, LEAD-FREE WATERWAYS, SELF CONTAINED SYSTEM (R-134A REFRIGERANT) DELIVERS MIN. 8 GPH OF 50°F WATER @ 80°F. INLET WATER AND 90°F AMBIENT AIR, 120V/1PH. BOTTLE FILLING STATION: ELECTRONIC SENSOR ACTIVATED WITH AUTOMATIC 20-SECOND SHUT-OFF TIMER AND BOTTLE COUNTER DELIVERS MIN. 1 GPM FLOW RATE WITH LAMINAR FLOW. ANTI-MICROBIAL PLASTIC COMPONENTS.	YES	WALL SURFACE	SPOUT: 38" / 32"	1/2"	N/A	1-1/4"	2"	ELKAY: LZSTL08WSSK OR APPROVED EQUAL	

NOTES:

1. SUPPLY STOPS: CHROME-PLATED-BRASS, ONE-QUARTER TURN, BALL-TYPE OR COMPRESSION VALVE WITH INLET MATCHING SUPPLY PIPING.
2. FLEXIBLE CONNECTIONS: ASME A112.18.6 BRAIDED- OR CORRUGATED-STAINLESS STEEL, FLEXIBLE HOSE RISER.
3. SUPPORT CARRIERS: ASME A112.6.1M TYPE 1 (URINALS) OR TYPE 2 (CONCEALED ARM FOR LAVATORIES) WITH RECTANGULAR STEEL UPRIGHTS, COUPLING, SEAL, AND MOUNTING HARDWARE.
4. A.D.A. LAVATORIES & SINKS: PROTECT DRAIN AND SUPPLY LINES WITH "TRAP WRAP" OR APPROVED EQUAL.
5. EXTRA MAINTENANCE MATERIALS: FURNISH TWO (2) FLUSHOMETER-VALVE REPAIR KITS FOR EACH TYPE OF FLUSHOMETER VALVE INSTALLED.

CIRCULATOR PUMPS

DESIGNATION			C-1
	SERVICE		DHW
	CAPACITY	GPM	4
	TOTAL DYNAMIC HEAD	FT.	27
	SHUT-OFF HEAD	FT.	35
	PUMP SEAL		MECHANICAL
	MOTOR SPEED	RPM	3,250
	MOTOR HORSEPOWER	HP	1/8
	MOTOR WINDING		FULL
	ELECTRICAL CHARACTERISTICS	V / PH	120 / 1
	NOTES		1
MANUFACTURER			TACO
MODEL NUMBER			009-SF5
DETAIL REFERENCE			C/P501

NOTES:

1. PROVIDE TACO 00 TIMER/AQUASTAT WITH 7 DAY DIGITAL PROGRAMMABLE TIMER. SET TIMER FOR ALLOWABLE OPERATION DURING OCCUPIED HOURS AND AQUASTAT TO CYCLE PUMP.
2. PLUMBING CONTRACTOR TO COORDINATE INSTALLATION OF TIMER AND AQUASTAT WITH ELECTRICAL CONTRACTOR AND INSTALL PER MANUFACTURER INSTRUCTIONS.

THERMOSTATIC MIXING VALVES

DESIGNATION			TMV-1
	APPLICATION		MED / LOW
	SET-POINT	°F	110
	MINIMUM FLOW	GPM	0.5
	MAXIMUM FLOW	GPM	10
	PRESSURE DROP @ MAX FLOW	PSI	10
	RECIRCULATED SYSTEM		YES
	ASSE COMPLIANCE		1017
MANUFACTURER			LAWLER
MODEL NUMBER			61-25
DETAIL REFERENCE			C/P501

NOTES:

1. PROVIDE ROUGH BRASS FINISH

ELECTRIC STORAGE WATER HEATERS

DESIGNATION			WH-1
	STORAGE	GAL	30
	HEATING ELEMENT INPUT (EACH)	kW	6.0
	NUMBER OF ELEMENTS	#	2
	SIMULTANEOUS OPERATION OF ELEMENTS		NO
	TOTAL HEATING INPUT	kW	6.0
	ENTERING WATER TEMPERATURE	°F	60
	LEAVING WATER TEMPERATURE	°F	140
	TEMPERATURE RISE	°F	80
	RECOVERY RATE	GPH	31
	ELECTRICAL CHARACTERISTICS	V / PH	208 / 1
MANUFACTURER			A.O. SMITH
MODEL NUMBER			DEN-30
DETAIL REFERENCE			C/P501

NOTES:

1. PROVIDE LOW WATER CUT-OFF.

FIXTURE UNIT CALCULATIONS

FIXTURE TYPE		QUANTITY	WASTE		SUPPLY					
					COLD		HOT		TOTAL	
			UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL	UNIT	TOTAL
	DRINKING FOUNTAIN	1	0.5	0.5	0.25	0.25			0.25	0.25
	LAVATORY (COLD WATER)	8	1	8	2	16			2	16
	SINK	1	2	2	2	2	2	2	3	3
	MOP SERVICE BASIN	1	2	2	2.25	2.25	2.25	2.25	3	3
	URINAL (3/4" VALVE)	1	4	4	5	5			5	5
	WATER CLOSET (TANK)	7	3	21	2	14			2	14
	HOSE BIBB / WALL HYDRANT	8			4	32			4	32
	FLOOR DRAIN	5	2	10						
	REFRIGERATOR / ICE MAKER	1			1	1			1	1
TOTAL FIXTURE UNITS				48		73		4		74
DOMESTIC WATER DEMAND (GPM)						35.8		5.5		36.3

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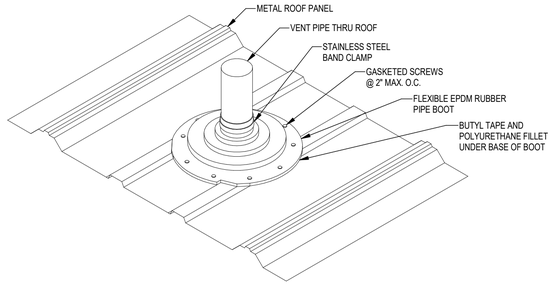
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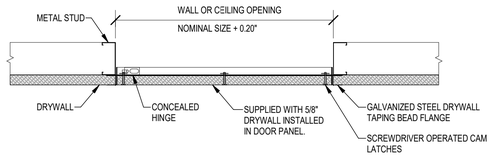
SHEET TITLE
SCHEDULES

P401

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G VENT THRU METAL ROOF



NOTES:

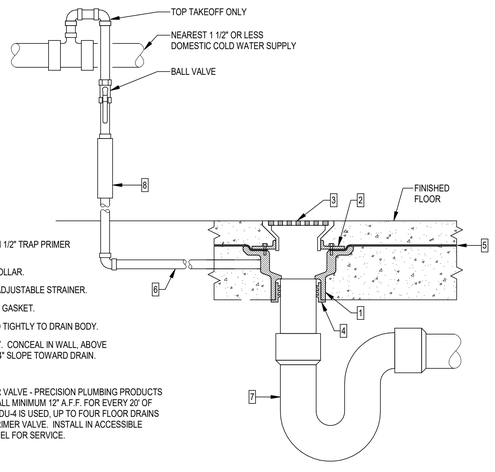
1. ACCESS DOOR SHALL BE NOMINAL 24"x24" UNLESS NOTED OTHERWISE.
2. LOCATE DOOR IN CEILING OR WALL TO ALLOW UNOBSTRUCTED ACCESS TO EQUIPMENT, DAMPERS, ETC. AND NOT IN CONFLICT WITH LIGHTS, DIFFUSERS, SPRINKLERS, ETC.
3. ATTACH FRAME OF ACCESS PANEL TO CEILING OR WALL FRAMED OPENING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

PROVIDE:

1. ACUDOOR PRODUCTS, INC. DW-5058.
2. CONCEALED HINGE WITH REMOVABLE DOOR PANEL.
3. EXTRUDED ALUMINUM DOOR AND FRAME CONSTRUCTION.
4. REVERSIBLE DOOR PANEL ACCOMMODATES EITHER 5/8" OR 1/2" DRYWALL.
5. SAFETY CHAIN FOR SIZES OVER 12"x12".
6. SCREWDRIVER OPERATED CAM LATCH.

YP30.2

H RECESSED EQUIPMENT ACCESS PANEL - DRYWALL FACE

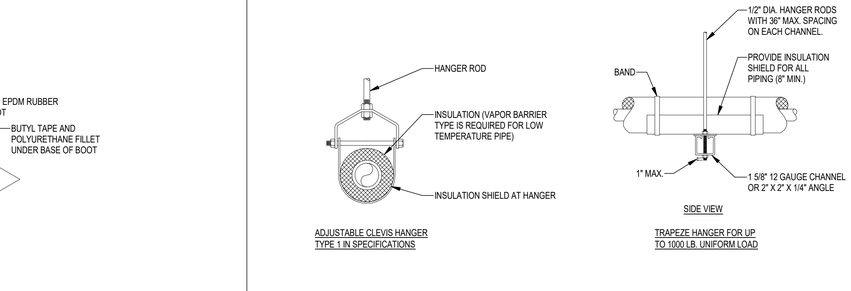


KEY NOTES: (THIS DETAIL ONLY)

1. CAST IRON FLOOR DRAIN BODY WITH 1/2" TRAP PRIMER TAP AND 3" OUTLET.
2. CAST IRON INVERTIBLE CLAMPING COLLAR.
3. POLISHED NICKEL BRONZE 2-PIECE ADJUSTABLE STRAINER.
4. PUSH-ON NEOPRENE COMPRESSION GASKET.
5. WATERPROOF MEMBRANE CLAMPED TIGHTLY TO DRAIN BODY.
6. 1/2" DOMESTIC COLD WATER SUPPLY. CONCEAL IN WALL ABOVE CEILING OR BELOW FLOOR. PITCH 1/4" SLOPE TOWARD DRAIN.
7. 3" DEEP SEAL P-TRAP
8. PRESSURE ACTIVATED TRAP PRIMER VALVE - PRECISION PLUMBING PRODUCTS (P.P.P.) OR APPROVED EQUAL. INSTALL MINIMUM 12" A.F.F. FOR EVERY 20' OF PRIMER LINE. IF DISTRIBUTION UNIT DU-4 IS USED, UP TO FOUR FLOOR DRAINS MAY BE SERVED FROM ONE TRAP PRIMER VALVE. INSTALL IN ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL FOR SERVICE.

YP24.4

J FLOOR DRAIN

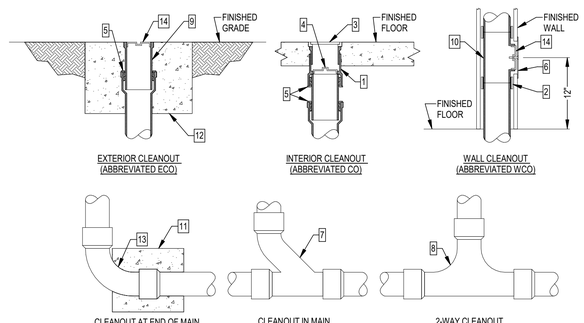


NOTES:

1. SEE SPECIFICATIONS FOR SPACING OF HANGERS.

YP22.1

D TYPICAL PIPE HANGERS

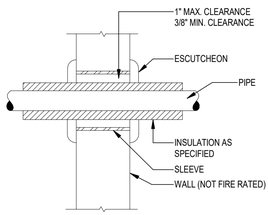


KEY NOTES: (THIS DETAIL ONLY)

1. CAST IRON 2-PIECE CLEANOUT BODY WITH ADJUSTABLE HEAD.
2. NO-HUB COUPLING (FOR ABOVE GROUND APPLICATION ONLY).
3. POLISHED NICKEL BRONZE SCORIATED TOP (PROVIDE CARPET MARKER FOR CARPETED FLOORS).
4. BRONZE TAPERED THREAD, RAISED HEAD CLEANOUT PLUG.
5. PUSH-ON NEOPRENE RUBBER COMPRESSION GASKET.
6. STAINLESS STEEL ROUND WALL ACCESS COVER.
7. COMBINATION WYE AND EIGHTH BEND FITTING.
8. TWO-WAY CLEANOUT FITTING
9. CAST IRON CLEANOUT FERRULE
10. CAST IRON CLEANOUT TEE.
11. 12" x 12" x 12" CONCRETE THRUST BLOCK.
12. 24" x 24" x 24" CONCRETE PAD FLUSH WITH GRADE.
13. LONG SWEEP ELBOW.
14. BRONZE TAPERED THREAD, RECESSED HEAD CLEANOUT PLUG.

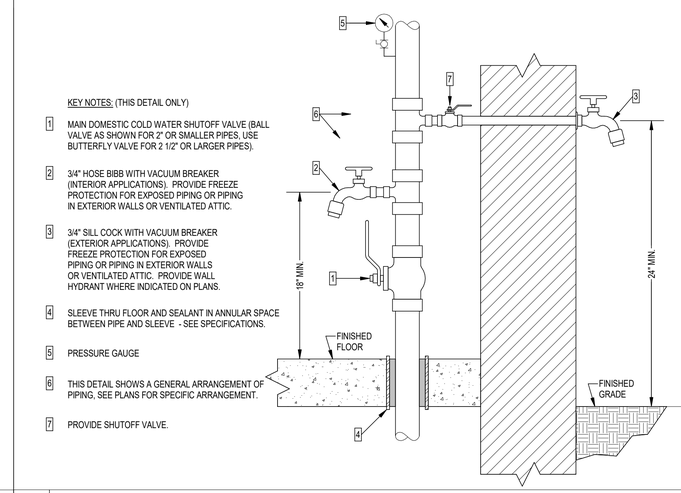
YP7.2

E CLEANOUTS



YP25.1

F PIPE PENETRATION OF NON-FIRE RATED WALL

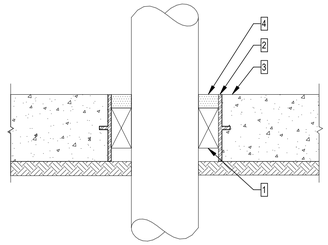


KEY NOTES: (THIS DETAIL ONLY)

1. MAIN DOMESTIC COLD WATER SHUTOFF VALVE (BALL VALVE AS SHOWN FOR 2" OR SMALLER PIPES. USE BUTTERFLY VALVE FOR 2 1/2" OR LARGER PIPES).
2. 3/4" HOSE BIBB WITH VACUUM BREAKER (INTERIOR APPLICATIONS). PROVIDE FREEZE PROTECTION FOR EXPOSED PIPING OR PIPING IN EXTERIOR WALLS OR VENTILATED ATTIC.
3. 3/4" SILL COCK WITH VACUUM BREAKER (EXTERIOR APPLICATIONS). PROVIDE FREEZE PROTECTION FOR EXPOSED PIPING OR PIPING IN EXTERIOR WALLS OR VENTILATED ATTIC. PROVIDE WALL HYDRANT WHERE INDICATED ON PLANS.
4. SLEEVE THRU FLOOR AND SEALANT IN ANNULAR SPACE BETWEEN PIPE AND SLEEVE - SEE SPECIFICATIONS.
5. PRESSURE GAUGE
6. THIS DETAIL SHOWS A GENERAL ARRANGEMENT OF PIPING, SEE PLANS FOR SPECIFIC ARRANGEMENT.
7. PROVIDE SHUTOFF VALVE.

YP27.5

A WATER SERVICE ENTRANCE

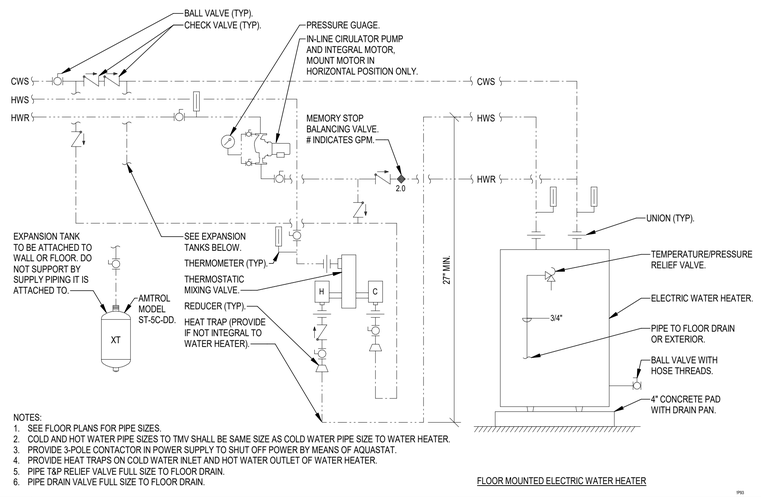


KEY NOTES: (THIS DETAIL ONLY)

1. SEAL ANNULAR SPACE AROUND PIPE WITH MODULAR SLEEVE SEAL SYSTEM. MODEL SHALL BE SUITABLE FOR THIS APPLICATION.
2. SLEEVE OR CORE DRILL APPROPRIATE SIZE HOLE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
3. FLOOR SLAB ON GRADE.
4. COMPLETELY FILL SPACE WITH SEALANT SUITABLE FOR THIS APPLICATION.

YP33.5

B SLAB ON GRADE PIPE PENETRATION



NOTES:

1. SEE FLOOR PLANS FOR PIPE SIZES.
2. COLD AND HOT WATER PIPE SIZES TO TMV SHALL BE SAME SIZE AS COLD WATER PIPE SIZE TO WATER HEATER.
3. PROVIDE 3-POLE CONTACTOR IN POWER SUPPLY TO SHUT OFF POWER BY MEANS OF AQUASTAT.
4. PROVIDE HEAT TRAPS ON COLD WATER INLET AND HOT WATER OUTLET OF WATER HEATER.
5. PIPE T&P RELIEF VALVE FULL SIZE TO FLOOR DRAIN.
6. PIPE DRAIN VALVE FULL SIZE TO FLOOR DRAIN.

FLOOR MOUNTED ELECTRIC WATER HEATER

YP33

C DOMESTIC HOT WATER SYSTEM

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H2E PROJECT No.24092

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CRAWFORDVILLE, FL

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	FPH	MPP

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
DETAILS

P501

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CEILING SUPPLY DIFFUSERS

SYMBOL	CFM	NECK SIZE	MINIMUM - MAXIMUM 1/2 SPACING	FACE DIMENSION	
				HARD CEILING	LAY-IN CEILING
	40-80	6"Ø	4' - 5'	12x12	24x24
	85-180	8"Ø	4' - 8'	12x12	24x24
	185-340	10"Ø	8' - 10'	24x24	24x24
	345-500	12"Ø	9' - 10'	24x24	24x24
	505-600	14"Ø	10' - 12'	24x24	24x24

NOTE:
1. RUNOUT DUCTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE INDICATED NECK SIZE.

CEILING RETURN OR EXHAUST REGISTERS & GRILLES

SYMBOL	CFM	GRILLE SIZE	RUNOUT DUCT (NOTE 2)
	0-95	8x8 (NOTE 1)	6x6
	100-195	10x10 (NOTE 1)	8x8
OR	200-295	12x12 (NOTE 1)	10x8
	300-595	18x18 (NOTE 1)	12x12
	600-695	22x22 (NOTE 1)	12x12
	700-795	24x24 (NOTE 1)	14x12
	800-1500	48x24 (NOTE 1)	18x14

NOTES:
1. USE 22x22 GRILLE SIZE FOR ALL LAY-IN CEILING APPLICATIONS. USE SIZE INDICATED FOR HARD CEILING APPLICATIONS.
2. WHERE DUCT CONNECTION IS SHOWN, RUNOUT DUCT SHALL BE SIZE SHOWN IN SCHEDULE U.N.O.
3. USE 18x18 GRILLE SIZE AND 12x12 RUNOUT DUCT FOR HARD CEILING APPLICATIONS WHERE SIZE OR AIRFLOW IS NOT INDICATED.
4. USE 12x12 RUN OUT DUCT FOR LAY-IN CEILING APPLICATIONS WHERE AIRFLOW IS NOT INDICATED.

SIDEWALL REGISTERS AND GRILLES

CFM	SUPPLY AIR		RETURN AIR OR EXHAUST AIR	
	REGISTER SIZE	RUNOUT DUCT	REGISTER SIZE	RUNOUT DUCT
0-95	8x6	8x6	8x6	8x6
100-195	10x6	10x6	10x6	10x6
200-295	12x6	12x6	18x6	18x6
300-395	16x6	16x6	24x6	24x6
400-495	18x8	18x8	30x8	30x8
500-595	18x10	18x10	30x10	30x10

CEILING SUPPLY TEMPERATURE CONTROL DIFFUSERS

SYMBOL	CFM	NECK SIZE	MINIMUM - MAXIMUM 1/2 SPACING	FACE DIMENSION
				LAY-IN CEILING
TCD	50 - 140	6"Ø	4' - 5'	24x24
	145 - 220	8"Ø	4' - 8'	24x24
	225 - 400	10"Ø	8' - 10'	24x24
	405 - 500	12"Ø	9' - 10'	24x24

NOTE:
1. RUNOUT DUCTS TO DIFFUSERS SHALL BE THE SAME SIZE AS THE INDICATED NECK SIZE.
2. PROVIDE DIGITAL WALL ADJUSTER WHERE SHOWN ON PLANS.
3. PROVIDE BYPASS R-RINGS.

FIRESTOP SCHEDULE OF THROUGH PENETRATION SYSTEMS. BASIS OF DESIGN: HILTI, INC.

TYPE OF PENETRANT	F-RATING (HR)	CONCRETE FLOORS	CONCRETE OR BLOCK WALLS	GYPSUM WALLS	HILTI PRODUCTS
		BASIS OF DESIGN UL SYSTEM			
CIRCULAR BLANK OPENINGS (0000-0999)	1	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090	--	CP 680, CP 618, FS-ONE MAX, CFS- BL
	2	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090	--	
METAL PIPES OR CONDUIT (1000-1999)	1	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020	W-L-1054, W-L-1058, W-L-1164, W-L-1506	CP 680, FS-ONE MAX, CP 606, CFS-S SIL GG, CFS-D, MINERAL WOOL
	2	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020, W-J-1248	W-L-1054, W-L-1058, W-L-1164, W-L-1506	
NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP, ENT) (2000-2999)	1	F-A-2053, F-A-2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	CP 680, CP 643N, MINERAL WOOL, CP 644, FS-ONE MAX, CFS-S SIL SL, CFS-S SIL CG, CP 648
	2	F-A 2053, F-A 2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2371, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2371, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	
SINGLE OR BUNDLED CABLES (3000-3999)	1	F-A-3007, C-AJ-3095, C-AJ-3180, C-AJ-3283	W-J-3036, C-AJ-3095, C-AJ-3180, W-J-3060, W-J-3167	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3414, W-L-3396	CP 680, CP 653, FS-ONE MAX, CP 618, CP 606, CFS-D, CFS-CC
	2	F-A-3007, C-AJ-3095, C-AJ-3334, F-A-3060	W-J-3036, C-AJ-3095, C-AJ-3180, W-J-3060, W-J-3167, W-J-3189	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3414, W-L-3396	
INSULATED PIPES (5000-5999)	1	F-A 5015, F-A 5017, C-AJ-5090, C-AJ-5091, C-AJ-5090, C-AJ-5048	C-AJ-5090, C-AJ-5091, C-AJ 5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047	CP 680, FS-ONE MAX, MINERAL WOOL
	2	F-A 5015, F-A 5017, C-AJ-5090, C-AJ-5091, C-AJ-5090	C-AJ-5090, C-AJ-5091, C-AJ-5061, W-J-5042	W-L-5028, W-L-5029, W-L-5047	
MECHANICAL DUCTWORK WITHOUT DAMPERS (NON-INSULATED) (7000-7999)	1	C-AJ-7046, C-AJ-7051, C-AJ-7084	C-AJ-7046, C-AJ-7051, W-J-7021, W-J-7022	W-L-7017, W-L-7040, W-L-7042, W-L-7155	CFS-S SIL GG, CP 606, FS-ONE MAX
	2	C-AJ-7046, C-AJ-7051, C-AJ-7085	C-AJ-7046, C-AJ-7051, W-J-7021, W-J-7022	W-L-7040, W-L-7042, W-L-7155	
MECHANICAL DUCTWORK WITHOUT DAMPERS (INSULATED) (7000-7999)	1	N/A**	W-J-7029, W-J-7124	W-L-7059, W-L-7153, W-L-7156, W-L-7151	FS-ONE MAX, MINERAL WOOL
	2	N/A**	W-J-7091, W-J-7112, W-J-7124	W-L-7059, W-L-7153, W-L-7156, W-L-7151	
MIXED PENETRANTS (8000-8999)	1	C-AJ-8099, C-AJ-8056, C-AJ-8143	C-AJ-8099, C-AJ-8056, W-J-8007, C-AJ-8143	W-L-1095, W-L-8013	FS-ONE MAX, CFS-BL, CP 620, CP 618
	2	C-AJ-8099, C-AJ-8056, C-AJ-8143, C-AJ-8252	C-AJ 8099, C-AJ-8056, W-J-8007, C-AJ-8143, C-AJ-8252	W-L-1095, W-L-8013	

NOTES:
1. JOBSITE CONDITIONS OF EACH THROUGH-PENETRATION FIRESTOP SYSTEM MUST MEET ALL DETAILS OF THE UL-CLASSIFIED SYSTEM SELECTED.
2. IF JOBSITE CONDITIONS DO NOT MATCH ANY UL-CLASSIFIED SYSTEMS IN THE SCHEDULES ABOVE, CONTACT FIRESTOP MANUFACTURER FOR ALTERNATIVE SYSTEMS OR ENGINEER JUDGMENT DRAWINGS.
3. WHERE MORE THAN ONE APPLICABLE UL-CLASSIFIED SYSTEM IS LISTED IN THE SCHEDULES, CHOOSE THE UL SYSTEM WHICH IS MOST ECONOMICAL FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM.
4. COORDINATE WORK WITH OTHER TRADES TO ENSURE THAT PENETRATION OPENING SIZES ARE APPROPRIATE FOR PENETRANT LOCATIONS, AND VICE-VERSA.
5. ALL THROUGH-PENETRATION FIRESTOPS SHALL BE PROVIDED BY ONE MANUFACTURER. APPROVED MANUFACTURES: HILTI, RECTORSEAL, 3M, STL.

AIR DISTRIBUTION

AxB	RECTANGULAR SHEET METAL DUCT
CØ	ROUND SHEET METAL DUCT
	FLEXIBLE RUNOUT DUCT
	ROUND OR RECTANGULAR TAKE-OFF FITTING WITH BALANCING DAMPER - SEE DETAIL B/M502
	SUPPLY AIR DUCTWORK SECTION
	RETURN AIR DUCTWORK SECTION
	EXHAUST AIR DUCTWORK SECTION
	AIR BALANCING DAMPER (MANUAL)
MD	CONTROL DAMPER (MOTORIZED)
FD	FIRE DAMPER
	DUCTWORK FLEXIBLE CONNECTION
AP	DUCTWORK ACCESS PANEL
	DUCT ELBOW WITH SINGLE THICKNESS TURNING VANES
	SIDEWALL REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE)
CFM	SQUARE CEILING SA DIFFUSER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE)
CFM	RECTANGULAR CEILING RA REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) SEE DETAIL C/M502
CFM	RECTANGULAR CEILING EA REGISTER AND AIR FLOW (CFM)(SEE SCHEDULE FOR SIZES UNLESS NOTED OTHERWISE) SEE DETAIL C/M502
AP	ACCESS PANEL IN INACCESSIBLE CEILING (24x24, UNO) SEE DETAIL D/M502
UC	DOOR UNDERCUT (3/4", UNO)

PIPING AND FITTINGS

C	CONDENSATE DRAIN PIPING FROM COOLING COIL
REF	REFRIGERANT PIPING (ONE LINE REPRESENTS BOTH LIQUID AND GAS LINES)
	CAP
	ELBOW TURNED UP
	ELBOW TURNED DOWN
	TEE, OUTLET UP
	TEE, OUTLET DOWN

MISCELLANEOUS

	2 HOUR FIRE RATED WALL

MEASUREMENTS AND CONTROLS

TH	COMBINATION TEMPERATURE AND HUMIDITY SENSOR

HVAC NOTES

1. TRAP AIR CONDITIONING CONDENSATE AND RUN TO SAFEWASTE AT LOCATION SHOWN ON PLANS.
2. INSTALL DUCTWORK, PIPING, ETC. AS HIGH AS POSSIBLE ABOVE CEILING WHILE MAINTAINING ACCESSIBILITY FOR EQUIPMENT AND DEVICES AS APPROPRIATE.
3. COORDINATE LOCATION OF ALL EQUIPMENT, DUCTWORK AND PIPING INSTALLATIONS WITH ELECTRICAL TO PROVIDE THE REQUIRED CLEARANCES AROUND ALL ELECTRICAL PANELS, SWITCHGEAR, ETC.
4. INSTALLATION OF EQUIPMENT, DUCTWORK AND PIPING SHALL PROVIDE CONVENIENT ACCESS FOR REMOVAL OF FILTERS AND FOR MAINTENANCE.
5. DUCT SIZES GIVEN ARE SHEET METAL SIZES.
6. COORDINATE EXACT LOCATIONS OF AIR DISTRIBUTION EQUIPMENT WITH THE CEILING AND THE LIGHTING LAYOUT.
7. THE RETURN AIR FROM INDIVIDUAL ROOMS IS THRU AN ABOVE-CEILING RETURN AIR PLENUM.
8. THE CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED.
9. PROVIDE NEW AIR FILTERS IN EACH UNIT REQUIRING FILTERS WHEN THE PROJECT IS READY FOR TEST AND BALANCE. DO NOT OPERATE UNITS WITHOUT FILTERS DURING CONSTRUCTION. REPLACE FILTERS DURING CONSTRUCTION ACCORDING TO FILTER MANUFACTURER'S RECOMMENDATIONS. SEAL ALL OPEN ENDS OF DUCT WORK DURING CONSTRUCTION.
10. VACUUM CLEAN THE INTERIOR OF ALL HVAC EQUIPMENT AND DUCTWORK.
11. WHEREVER THE DEPTH OF THE TRUNK DUCT IS LESS THAN THE ROUND RUNOUT DUCT DIAMETER, PROVIDE TRANSITION FITTING OF EQUIVALENT AREA TO THE RUNOUT DUCT.
12. WHERE ROUND DUCT IS INDICATED ON PLANS, USE SPIRAL WOUND DUCTWORK. "SNAPLOCK" DUCTWORK IS NOT ACCEPTABLE.
13. PROVIDE FLEXIBLE DUCT CONNECTIONS AT EACH EQUIPMENT CONNECTION.
14. OUTSIDE AIR INTAKES SHALL NOT BE LOCATED ANY CLOSER THAN 15 FEET FROM ANY CHIMNEY OR EXHAUST OUTLET OR PLUMBING VENT TERMINAL.
15. PROVIDE FIRE DAMPER AT EVERY DUCT PENETRATION OF FIRE RATED CONSTRUCTION, WHETHER SHOWN ON THE DRAWINGS OR NOT.
16. WHERE FIRE DAMPERS ARE REQUIRED, PROVIDE DUCT ACCESS DOORS TO ALLOW RE-LINKING OF DAMPER FUSIBLE LINKS. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
17. WHERE CONTROL DAMPERS OR COILS ARE INSTALLED IN DUCTWORK, PROVIDE DUCT ACCESS DOORS TO ALLOW INSPECTION OF DEVICE. PROVIDE CEILING/WALL ACCESS PANELS WHERE INSTALLED IN INACCESSIBLE LOCATIONS; PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL.
18. IT IS RECOMMENDED THAT DUCTWORK BE FABRICATED FROM FIELD MEASUREMENTS TAKEN AS THE BUILDING STRUCTURE AND SPACE COMPETING SYSTEMS ARE PROGRESSIVELY INSTALLED. THE DUCTWORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS IS DIAGRAMMATIC AND DOES NOT NECESSARILY INCLUDE ALL MODIFICATIONS REQUIRED TO AVOID THESE INTERFERENCES. BEFORE FABRICATING ANY DUCTWORK, CHECK THE PHYSICAL CONDITIONS AT THE JOB SITE AND MAKE CHANGES IN CROSS SECTIONS, ROUTING, OFFSETS AND SIMILAR ITEMS WHETHER SPECIFICALLY INDICATED OR NOT. VERIFY THAT SUFFICIENT CLEARANCES ARE AVAILABLE FOR INSTALLING DUCTWORK, PIPING, LIGHT FIXTURES, CEILING SYSTEMS AND TO PROVIDE EQUIPMENT SERVICE. COSTS REQUIRED TO CHANGE DUCTWORK TO FIT THE SPACE AVAILABLE AND AVOID INTERFERENCES CAUSED BY SPACE COMPETING SYSTEMS SHALL BE BORNE BY THE CONTRACTOR. NO ADDITIONAL REMUNERATION WILL BE PAID BY THE OWNER.
19. APPLY EXTERNAL INSULATION TO SINGLE WALL SUPPLY DUCTS, RETURN DUCTS AND OUTSIDE AIR DUCTS PER SPECIFICATIONS.
20. PROVIDE VOLUME CONTROL DAMPERS IN SIDE TAKE-OFF FITTINGS TO SUPPLY AIR DIFFUSERS AND EXHAUST AIR AND RETURN AIR GRILLES AND AT EACH DUCT BRANCH SERVING TWO OR MORE AIR TERMINALS, WHETHER SHOWN ON THE DRAWINGS OR NOT.
21. MINIMUM PIPE SIZE FOR COOLING COIL CONDENSATE SHALL BE 3/4".
22. SECTIONS OF PIPE STORED ON SITE SHALL HAVE EACH OPEN END COVERED AT ALL TIMES EXCEPT WHILE MAKING CONNECTIONS. IF DEBRIS IS FOUND INSIDE PIPE, IT SHALL BE COMPLETELY REMOVED PRIOR TO ASSEMBLY.
23. PROVIDE ACCESS PANEL AT EACH LOCATION WHERE A VALVE, DAMPER OR OTHER DEVICE REQUIRING SERVICE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL. ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL. COORDINATE ACCESS PANEL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
24. COORDINATE LOUVER AND DEVICE LOCATIONS WITH WALL STRUCTURAL REINFORCEMENT. SEE STRUCTURAL DRAWINGS FOR LOCATION OF LINTELS, BOND BEAMS AND REINFORCING.
25. COORDINATE ALL DUCT TEST WITNESSING WITH LOCAL MECHANICAL INSPECTOR.
26. PRIOR TO FINAL INSPECTION, PROVIDE CERTIFIED TEST & BALANCE REPORT AND OPERATIONS & MAINTENANCE MANUALS TO THE OWNER.
27. PROVIDE DUCT ACCESS DOOR AT EACH FLOW MEASURING STATION.
28. DUCT CONSTRUCTION, INCLUDING SHEET METAL THICKNESSES, SEAM AND JOINT CONSTRUCTION, REINFORCEMENTS, AND HANGERS AND SUPPORTS, SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE DUCT."

APPLICABLE CODES

PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

1. ASHRAE
   a. STANDARD 15 — SAFETY STANDARD FOR REFRIGERATION SYSTEMS - 2019
   b. STANDARD 55 — THERMAL ENVIRONMENTAL CONDITIONS FOR HUMAN OCCUPANCY - 2017
   c. STANDARD 62.1 — VENTILATION STANDARD FOR ACCEPTABLE INDOOR AIR QUALITY - 2019
   d. STANDARD 90.1 — ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS - 2019
2. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA).
3. NATIONAL FIRE CODES
   a. NFPA 70 — NATIONAL ELECTRICAL CODE - 2020
   b. NFPA 90A — STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS - 2021
   c. NFPA 90B — STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS - 20214
   d. NFPA 91 — STANDARD FOR THE INSTALLATION OF BLOWER AND EXHAUST SYSTEMS - 2020
   e. NFPA 101 — LIFE SAFETY CODE - 2021 (FLORIDA EDITION)
1. FLORIDA BUILDING CODE, 2023 EDITION
   a. BUILDING CODE
   b. ENERGY CONSERVATION CODE
   c. MECHANICAL CODE
   d. PLUMBING CODE
   e. ACCESSIBILITY CODE
2. FLORIDA STATUTES
   a. CHAPTER 471 — ENGINEERING
   b. CHAPTER 533.80 — BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT
3. FLORIDA ADMINISTRATIVE CODE
   a. CHAPTER 9B-7 — FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
   b. CHAPTER 61G15-34 — RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF MECHANICAL SYSTEMS
   c. CHAPTER 69A-60 — THE FLORIDA FIRE PREVENTION CODE

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

GENERAL NOTES

1. INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2023, THE FLORIDA FIRE PREVENTION CODE, THE NATIONAL ELECTRICAL CODE 2020 EDITION, AND ALL CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION AT THIS SITE. WHERE CONFLICTS OCCUR BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
2. DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.
3. FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, CONTRACTOR IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF CONTRACTOR PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THEREWITH.
4. BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH CONTRACTOR WILL BE OBLIGED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON CONTRACTOR'S PART.
5. THE CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH CONTRACTOR'S WORK.
6. CONSTRUCTION MANAGER OR GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEQUENCING AND COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
7. WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
8. ERECT AND MAINTAIN ALL REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
9. THE CONTRACTOR SHALL PROVIDE MANPOWER AND EQUIPMENT NECESSARY TO MAINTAIN THE PROJECT SCHEDULE.
10. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS DESIGNATED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS AND IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS.
11. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
12. THE CONTRACTOR SHALL FURNISH "AS-BUILT" RECORD DOCUMENTS TO THE OWNER AT COMPLETION OF CONSTRUCTION.
13. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
14. CONTRACTOR'S APPROVAL STAMP ON SUBMITTALS AND SHOP DRAWINGS CERTIFIES THAT THE CONTRACTOR HAS REVIEWED THE DOCUMENTS AND THAT THE CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN ADHERED TO.
15. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
16. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKER BOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
17. ENTRY AND/OR REMOVAL OF EQUIPMENT FROM THE BUILDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DISMANTLE AND REASSEMBLE EQUIPMENT AS NECESSARY FOR ENTRY INTO THE BUILDING AND/OR EQUIPMENT ROOMS. CONTRACTOR SHALL PATCH AND REPAIR ANY DAMAGED MATERIALS TO MATCH THE ADJACENT UNDAMAGED SURFACES.
18. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
19. SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
20. ALL EXTERIOR STRUCTURES AND EQUIPMENT SHALL BE INSTALLED TO RESIST 130 MPH WIND LOAD.
21. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE WALL ASSEMBLIES AND ACOUSTICAL WALLS.
22. BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
23. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS.
24. CONTRACTOR SHALL COMPLY WITH "TRENCH SAFETY ACT" (FLORIDA STATUTE 553 PART III) AND OSHA STANDARD 29 CFR 1926.650 SUBPART P FOR ALL UTILITY TRENCHES IN EXCESS OF 5 FEET DEEP. CONTRACTOR SHALL INDICATE WITHIN HIS BID RESPONSE A REFERENCE TO THE TRENCH SAFETY STANDARD AND A SEPARATE LINE ITEM COST OF COMPLIANCE WITH STANDARD.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
AHAP	AS HIGH AS POSSIBLE	IN	INCHES
AHU	AIR HANDLING UNIT	MCA	MINIMUM CIRCUIT AMPACITY
BHP	BRAKE HORSEPOWER	MOCP	MAXIMUM OVERLOAD PROTECTION
BTUH	BRITISH THERMAL UNITS PER HOUR	N/A	NOT APPLICABLE
C	CONDENSATE	NIS	NOT IN SCOPE
CC	COOLING COIL	OA	OUTSIDE AIR
CD	CEILING DIFFUSER	RA	RETURN AIR
CFM	CUBIC FEET PER MINUTE	RAG	RETURN AIR GRILLE
CO	CLEAN OUT	REF	REFRIGERANT
CU	CONDENSING UNIT	RPM	REVOLUTIONS PER MINUTE
CV	CONSTANT VOLUME	SA	SUPPLY AIR
DEG	DEGREES	SAR	SUPPLY AIR REGISTER
DN	DOWN	SF	SUPPLY FAN
DOAS	DEDICATED OUTSIDE AIR SYSTEM	SMS	SHEET METAL SIZE
DSSI	DUCTLESS SPLIT SYSTEM INDOOR UNIT	SP	STATIC PRESSURE
DSSO	DUCTLESS SPLIT SYSTEM OUTDOOR UNIT	SQ FT	SQUARE FEET
EA	EXHAUST AIR	TAG	TRANSFER AIR GRILLE
EAG	EXHAUST AIR GRILLE	TAS	TRANSFER AIR SLEEVE
EF	EXHAUST FAN	TR	TRANSFORMER
F	FEET	TYP	TYPICAL
°Fdb	DEGREES FAHRENHEIT DRY BULB	UC	DOOR UNDERCUT (3/4", UNO)
°Fwb	DEGREES FAHRENHEIT WET BULB	UG	UNDERGROUND
FD	FIRE DAMPER	UNO	UNLESS NOTED OTHERWISE
FPM	FEET PER MINUTE	V	VALVE
GPM	GALLONS PER MINUTE	VFD	VARIABLE FREQUENCY DRIVE
HC	HEATING COIL	WG	WATER GAUGE

DRAWING INDEX

M001	GENERAL NOTES & LEGENDS
M101	FLOOR PLAN
M201	ENLARGED PLANS & SECTIONS
M401	SCHEDULES
M402	SCHEDULES
M501	DETAILS
M502	DETAILS

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	JPT	MPP

Revision

#	Description	Date

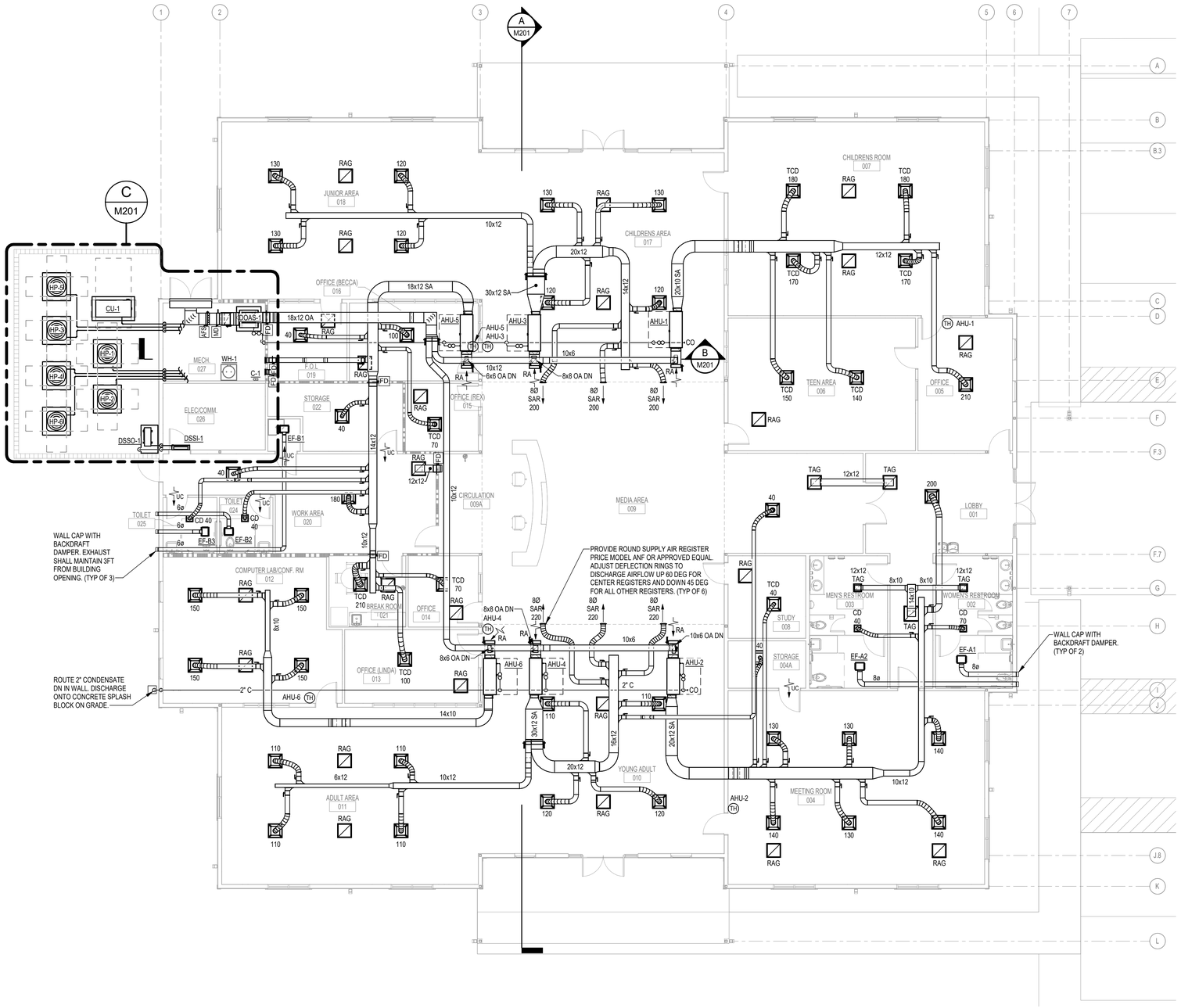
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Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
GENERAL NOTES & LEGENDS

M001

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FLOOR PLAN - HVAC

Scale: 1/8" = 1'-0"

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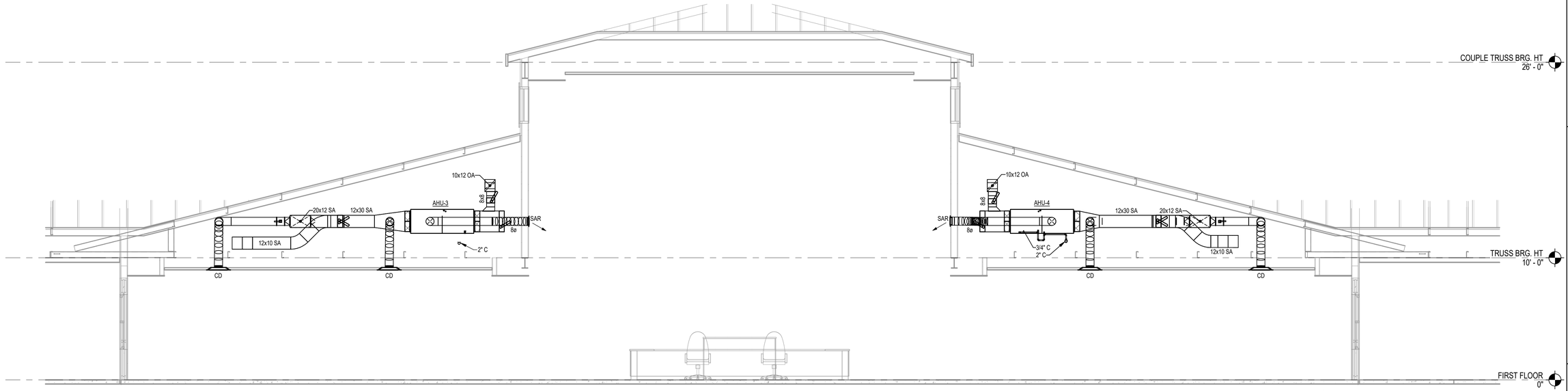
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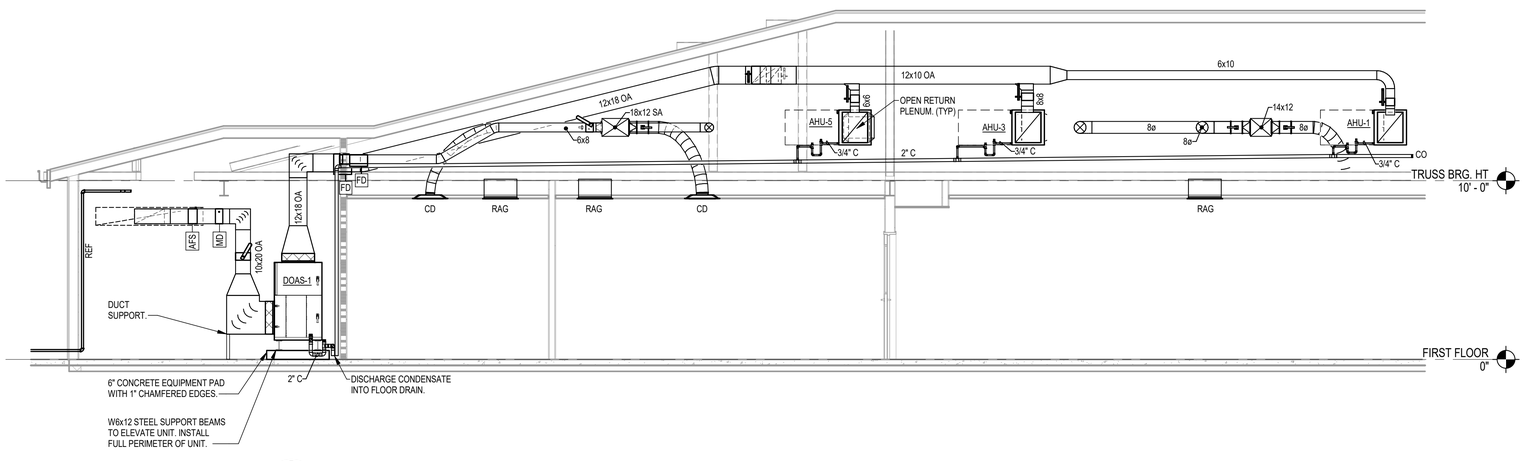
SHEET TITLE
FLOOR PLAN

M101

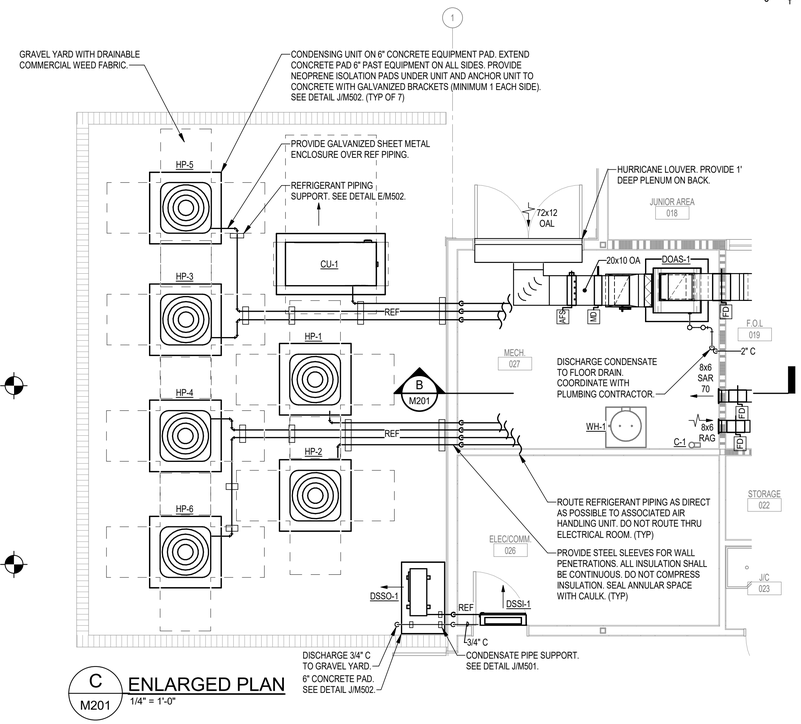
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A M201 SECTION
1/4" = 1'-0"



B M201 SECTION
1/4" = 1'-0"



C M201 ENLARGED PLAN
1/4" = 1'-0"

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100% CDs	7/21/25	JPT	MPP

Revision

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CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE

ENLARGED PLANS & SECTIONS

M201

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SPLIT SYSTEM SCHEDULE (1 - 5 TONS)

INDOOR UNIT DESIGNATION			AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6
OUTDOOR UNIT DESIGNATION			HP-1	HP-2	HP-3	HP-4	HP-5	HP-6
	SCHEDULED TYPE		D	D	E	E	C	A
	DESCRIPTION		HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	SUPPLY AIR FLOW	CFM	1,200	1,200	1,600	1,600	1,000	600
	OUTSIDE AIR FLOW	CFM	160	160	250	250	100	80
	NOTES		1, 2	1, 2	1, 2	1, 2	1, 2	1, 2

NOTES:
1. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT / HUMIDISTAT.
2. PROVIDE BI-POLAR IONIZATION (IG-A) AT FAN INLET, SEE SCHEDULE.

NEEDLE POINT ION GENERATORS

DESIGNATION			IG-A
	MAXIMUM AIRFLOW CAPACITY	CFM	2,400
	IONIZATION GENERATION		NEEDLE POINT BIPOLAR
	NEEDLE CONFIGURATION		BRUSH
	NUMBER OF BRUSHES	#	2
	WEIGHT	LBS.	0.2
	ELECTRICAL CHARACTERISTICS	VAC	24
	QUANTITY	#	SEE NOTE 1
MANUFACTURER			PLASMA AIR
MODEL NUMBER			600

NOTES:
1. INSTALL ION GENERATOR IN AHU FAN INLET PER MANUFACTURER'S INSTRUCTION. PROVIDE QUANTITY BASED ON MAXIMUM AIR FLOW.
2. ION GENERATOR SHALL BE ENABLED WHEN THE FAN IS RUNNING AND DISABLED WHEN THE FAN IS OFF.
3. PROVIDE POWER TO ION GENERATOR THRU AHU 24V INTERNAL TRANSFORMER.

CONTAMINANTS OF CONCERN

		OUTSIDE AIR CONCENTRATION	GENERATION RATE	
		MG/M^3	MG(MIN*PERSON)	MG/(M^3*HR)
CONCENTRATIONS FROM BIOEFFLUENTS (PEOPLE)				
	ACETONE	0.0179	0.0352	
	AMMONIA	0.00375	0.0224	
	HYDROGEN SULFIDE	0.000495	0.0019	
	METHYL ALCOHOL	NEGLIGIBLE	0.0517	
	PHENOL	0.000377	0.0066	
CONCENTRATIONS FROM OUTDOOR CONTAMINANTS				
	CARBON MONOXIDE	2.71		
	NITROGEN DIOXIDE	0.0284		
	OZONE	0.178		
	SULFUR DIOXIDE	0.00564		
CONCENTRATIONS FROM BUILDING INTERIORS				
	FORMALDEHYDE	0.0068		0.021
	TOTAL VOLATILE ORGANIC COMPOUNDS	0.0685		0.303

SPLIT SYSTEM TYPES (1 - 5 TONS)

TYPE			A	C	D	E
DESCRIPTION			HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
PERFORMANCE - (NOTES 1 & 2)						
	NOMINAL CAPACITY	TONS	1 1/2	2 1/2	3	4
	TOTAL COOLING CAPACITY	BTUH	18,000	28,600	35,000	46,090
	SENSIBLE COOLING CAPACITY	BTUH	13,950	22,970	26,610	36,420
	HEATING CAPACITY @ 47°F	BTUH	17,400	28,600	35,000	46,000
	HEATING CAPACITY @ 17°F	BTUH	10,000	17,000	21,600	27,800
	AIR FLOW RATE	CFM	620	1,060	1,190	1,600
	SEER2	BTU / W-HR	15.2	14.5	15.0	15.2
	HSPF2	BTU / W-HR	7.8	7.8	7.5	7.8
INDOOR UNIT DATA						
	NOMINAL CAPACITY	TONS	2	2 1/2	3	4
	FAN DRIVE TYPE		DIRECT	DIRECT	DIRECT	DIRECT
	FAN MOTOR HORSEPOWER	HP	3/4	3/4	3/4	3/4
	EXTERNAL STATIC PRESSURE	IN. WG	0.9	0.9	0.9	0.9
	AUXILIARY HEATING CAPACITY (NOTE 3)	kW - #	4.8	6.0	8.0	9.6
	AUXILIARY HEAT TEMPERATURE RISE	°F	18.4	13.4	16.0	14.2
	ELECTRICAL CHARACTERISTICS	V / PH	208 / 1	208 / 1	208 / 1	208 / 1
	MINIMUM CIRCUIT AMPACITY (NOTE 4)	AMPS	27	32.8	43	50.5
	MAXIMUM OVERLOAD PROTECTION (NOTE 4)	AMPS	30	35	45	60
	FILTERS		2" THICK PLEATED	2" THICK PLEATED	2" THICK PLEATED	2" THICK PLEATED
	CONDENSATE DRAIN SIZE	IN.	3/4	3/4	3/4	3/4
	WEIGHT	LBS.	112	129	153	153
OUTDOOR UNIT DATA						
	NOMINAL CAPACITY	TONS	1 1/2	2 1/2	3	4
	NUMBER OF COMPRESSORS OR STAGES	#	1	1	1	1
	ELECTRICAL CHARACTERISTICS	V / PH	208 / 1	208 / 1	208 / 1	208 / 1
	MINIMUM CIRCUIT AMPACITY	AMPS	11.4	17	21.5	25.5
	MAXIMUM OVERLOAD PROTECTION	AMPS	15	25	35	40
	WEIGHT	LBS.	160	174	196	269
REFRIGERANT TYPE			R-32	R-32	R-32	R-32
MANUFACTURER			DAIKIN	DAIKIN	DAIKIN	DAIKIN
MODEL NUMBER (INDOOR UNIT)			AMST24BU13	AMST30BU13	AMST36CU13	AMST48CU13
MODEL NUMBER (OUTDOOR UNIT)			DH4SEA1810	DH4SEA3010	DH4SEA3610	DH4SEA4810
DETAIL REFERENCE			B/M501	B/M501	B/M501	B/M501

NOTES:
1. COOLING CAPACITY RATED @ 95°F AMBIENT, 80°Fdb / 67°Fwb ENTERING AIR TEMPERATURE.
2. HEATING CAPACITY RATED @ 47°Fdb / 43°Fwb AMBIENT, 70°Fdb ENTERING AIR TEMPERATURE.
3. AUXILIARY HEATING RATED @ 240 V
4. FOR 3-PHASE APPLICATIONS, CIRCUIT #1 IS 1-PHASE FOR BLOWER, AND CIRCUIT #2 IS 3-PHASE FOR HEATER.
5. REFRIGERANT PIPING SHALL BE SIZED BY MANUFACTURER.
6. PROVIDE 2" EXTERNAL FILTER HOUSING, G90 GALVANIZED STEEL, FULLY INSULATED, MAGNETIC ACCESS DOOR. THE METAL SHOP OR APPROVED EQUAL.

INDOOR AIR QUALITY RESULTS

UNIT DESIGNATION		UNIT INFORMATION		CONTAMINANT CONCENTRATIONS										
		OUTDOOR AIR	FILTER	ACETONE	AMMONIA	CARBON MONOXIDE	FORMALDEHYDE	HYDROGEN SULFIDE	METHYL ALCOHOL	NITROGEN DIOXIDE	OZONE	PHENOL	SULFUR DIOXIDE	TOTAL VOC
		CFM		MG/M3	MG/M3	MG/M3	MG/M3	MG/M3	MG/M3	MG/M3	MG/M3	MG/M3	MG/M3	MG/M3
CONTAMINANT CONENTRATION TARGETS		N/A	N/A	0.153	0.090	0.008	0.198	0.026	2.710	0.028	0.178	0.006	0.008	0.088
AHU-1.1														
	VENTILATION RATE PROCEDURE	352	NONE	0.149	0.087	2.710	0.008	0.008	0.193	0.028	0.178	0.025	0.006	0.087
	INDOOR AIR QUALITY PROCEDURE	160	IG/MERV13	0.132	0.081	0.943	0.004	0.007	0.185	0.010	0.062	0.024	0.002	0.042
AHU-1.2														
	VENTILATION RATE PROCEDURE	248	NONE	0.241	0.146	2.710	0.009	0.013	0.327	0.028	0.178	0.042	0.006	0.100
	INDOOR AIR QUALITY PROCEDURE	160	IG/MERV13	0.156	0.097	0.943	0.004	0.008	0.221	0.010	0.062	0.028	0.002	0.045
AHU-1.3														
	VENTILATION RATE PROCEDURE	472	NONE	0.119	0.068	2.710	0.008	0.006	0.149	0.028	0.178	0.019	0.006	0.083
	INDOOR AIR QUALITY PROCEDURE	250	IG/MERV13	0.099	0.060	1.042	0.004	0.005	0.135	0.011	0.068	0.017	0.002	0.040
AHU-1.4														
	VENTILATION RATE PROCEDURE	431	NONE	0.104	0.058	2.710	0.008	0.005	0.126	0.028	0.178	0.016	0.006	0.081
	INDOOR AIR QUALITY PROCEDURE	250	IG/MERV13	0.078	0.047	1.042	0.003	0.004	0.104	0.011	0.068	0.013	0.002	0.037
AHU-1.5														
	VENTILATION RATE PROCEDURE	115	NONE	0.183	0.109	2.710	0.008	0.009	0.242	0.028	0.178	0.031	0.006	0.092
	INDOOR AIR QUALITY PROCEDURE	100	IG/MERV13	0.085	0.051	0.903	0.003	0.004	0.116	0.009	0.059	0.015	0.002	0.034
AHU-1.6														
	VENTILATION RATE PROCEDURE	192	NONE	0.102	0.057	2.710	0.008	0.005	0.124	0.028	0.178	0.016	0.006	0.081
	INDOOR AIR QUALITY PROCEDURE	80	IG/MERV13	0.094	0.057	0.943	0.003	0.005	0.129	0.010	0.062	0.017	0.002	0.036

NOTES:
1. CONTAMINANT CONCENTRATION TARGETS BASED ON MAXIMUM BUILDING CONCENTRATIONS CALCULATED FROM VENTILATION RATE PROCEDURE.
2. INDOOR AIR QUALITY PROCEDURE CALCULATED, AS PERMITTED BY FBC MECHANICAL 2023 PER CALCULATION REQUIREMENTS OF ASHRAE 62.1.
3. VENTILATION RATES FOR VENTILATION RATE PROCEDURE CALCULATED PER REQUIREMENTS OF FBC 2023
4. IG: ION GENERATOR, FOR BI-POLAR IONIZATION AIR PURIFICATION.

DEDICATED OUTDOOR AIR SYSTEM

INDOOR UNIT DESIGNATION			DOAS-1
OUTDOOR UNIT DESIGNATION			CU-1
AIR FLOW RATES			
	TOTAL SUPPLY AIR	CFM	1,000
	OUTSIDE AIR	CFM	1,000
	MINIMUM SUPPLY FAN SPEED SETTING	%	100
FILTER SECTION			
	TYPE OF FILTER		2" THICK PLEATED
COOLING DATA			
	TOTAL COOLING CAPACITY	MBTUH	80.3
	SENSIBLE COOLING CAPACITY	MBTUH	46.7
	AIR ENTERING COOLING COIL	°Fdb - °Fwb	96.2 – 76.2
	AIR LEAVING COOLING COIL	°Fdb - °Fwb	53.0 – 52.5
	ISMRE (CODE MINIMUM)	LB / KW-HR	4.0
	CONDENSATE DRAIN SIZE	IN.	2
HOT GAS REHEAT DATA			
	TYPE		MODULATING
	HEATING CAPACITY	MBTUH	20.9
	AIR ENTERING HOT GAS REHEAT COIL	°F	53
	AIR LEAVING HOT GAS REHEAT COIL	°F	72
HEATING DATA - ELECTRIC			
	HEATING CAPACITY - # OF STAGES	kW - #	15.8 – SCR
	AIR ENTERING HEATING COIL	°F	25
	AIR LEAVING HEATING COIL (NOTE 12)	°F	70
SUPPLY FAN SECTION			
	FAN TYPE		PLENUM
	DRIVE TYPE		DIRECT
	FAN QUANTITY	#	1
	EXTERNAL STATIC PRESSURE	IN. WG	1
	MAXIMUM TOTAL STATIC PRESSURE (INCLUDING DIRTY FILTER)	IN. WG	2.4
	DIRTY FILTER ALLOWANCE	IN. WG	0.7
	FAN MOTOR HORSEPOWER (PER FAN)	HP - BHP	2 – 0.7
	FAN MOTOR HORSEPOWER (UNIT TOTAL)	HP - BHP	2 – 0.7
	VARIABLE FREQUENCY DRIVE		YES
INDOOR UNIT DATA			
	WEIGHT	LBS	721
	ELECTRICAL CHARACTERISTICS	V / PH	208 / 3
	MCA / MOCP	AMPS	61 / 70
OUTDOOR UNIT DATA			
	COMPRESSOR QUANTITY	#	1
	WEIGHT	LBS	425
	REFRIGERANT TYPE		R-454B
	ELECTRICAL CHARACTERISTICS	V / PH	208 / 3
	MCA / MOCP	AMPS	32 / 50
MANUFACTURER			AAON
MODEL NUMBER (INDOOR UNIT)			V3-B
MODEL NUMBER (OUTDOOR UNIT)			CFA-007
DETAIL REFERENCE			A/M501

NOTES:
1. REFRIGERANT PIPING SHALL BE SIZED BY THE MANUFACTURER OF THE SUPPLIED SYSTEM.
2. PROVIDE ONE (1) MODULATING COMPRESSOR.
3. PROVIDE SUPPLY AIR TEMPERATURE AND DEWPOINT CONTROL.
4. PROVIDE SUPPLY AIR TEMPERATURE SENSOR.
5. PROVIDE OUTSIDE AIR TEMPERATURE AND HUMIDITY SENSORS.
6. PROVIDE SUCTION PRESSURE TRANSDUCER.
7. PROVIDE EBTRON GOLD SERIES AIRFLOW MEASURING STATION.
8. PROVIDE MODULATING HEAD PRESSURE CONTROL.
9. PROVIDE PHASE AND BROWN OUT CONTROL.
10. PROVIDE SURGE PROTECTION DEVICES FOR SENSOR AND CONTROLS LOCATED OUTDOORS AND SUBJECT TO ELECTRICAL DAMAGE.
11. PROVIDE FLOAT SWITCH IN AUXILLARY DRAIN PAN FOR SHUTDOWN OF UNIT UPON DETECTION.
12. SET LEAVING AIR TEMP TO VALUE INDICATED.

CONTROLS SEQUENCE:

OCCUPIED MODE: THE SUPPLY FAN RUNS CONTINUOUSLY BASED ON OCCUPIED SCHEDULE THRU INTERNAL TIME CLOCK OR THE TENANT OVERRIDE PUSH BUTTON SWITCH IS ENABLED. THE MOTORIZED DAMPER SHALL OPEN WHENEVER THE FAN IS ON.

HEATING MODE: ENABLE WHEN SUPPLY AIR TEMPERATURE FALLS BELOW SUPPLY AIR TEMPERATURE SETPOINT (70 DEG F, ADJUSTABLE).

DEHUMIDIFICATION MODE: ENABLE WHEN OUTSIDE AIR DEWPOINT RISES ABOVE THE OUTSIDE AIR DEWPOINT SETPOINT (55 DEG F, ADJUSTABLE). COMPRESSORS SHALL MODULATE AND/OR STAGE TO MAINTAIN EVAPORATOR COIL SUCTION TEMPERATURE SETPOINT. MODULATING HOT GAS REHEAT SHALL MODULATE TO MAINTAIN SUPPLY AIR TEMPERATURE SETPOINT (72 DEG F, ADJUSTABLE).

VENT MODE: ENABLE WHEN OUTSIDE AIR DEWPOINT FALLS BELOW OUTSIDE AIR DEW POINT SET POINT (53 DEG F, ADJUSTABLE)

UNOCCUPIED MODE: THE SUPPLY FAN IS OFF WITH OUTSIDE AIR DAMPER CLOSED.

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	JPT	MPP

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
SCHEDULES

M401

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FANS

DESIGNATION			EF-A1, A2	EF-B1	EF-B2, B3
	SERVICE		CLASS 1 OR 2 EXHAUST	CLASS 1 OR 2 EXHAUST	CLASS 1 OR 2 EXHAUST
	MOUNTING METHOD		CEILING	CEILING	CEILING
	FAN TYPE		CENTRIFUGAL CABINET	CENTRIFUGAL CABINET	CENTRIFUGAL CABINET
	AIR FLOW	CFM	150	50	50
	STATIC PRESSURE	IN.	0.3	0.3	0.3
	AIRSTREAM TEMPERATURE	DEG F	70	70	70
	FAN SPEED	RPM	983	900	900
	FAN DRIVE		DIRECT	DIRECT	DIRECT
	MOTOR SPEED	RPM	983	900	900
	MOTOR POWER	HP or W	20 W	14 W	14 W
	MOTOR BRAKE HORSEPOWER	BHP	N/A	N/A	N/A
	ELECTRONICALLY COMMUTATED MOTOR		YES	NO	NO
	ELECTRICAL CHARACTERISTICS	V / PH	120 / 1	120 / 1	120 / 1
	WEIGHT	LBS.	24	12	12
	NOISE LEVEL (RADIATED)	SONES or LwA	2.5 SONES	0.7 SONES	0.7 SONES
	STANDARD NOTES		1, 2, 4, 11, 20, 21	1, 2, 4, 11, 20, 21	1, 2, 4, 11, 20, 50
MANUFACTURER			GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER			SP-A390-VG	SP-A90	SP-A90
DETAIL REFERENCE			E/M501	E/M501	E/M501

NOTES:

1 PROVIDE PRE-WIRED DISCONNECT SWITCH, FACTORY MOUNTED FOR SINGLE PHASE MOTORS (3/4 HP AND SMALLER). ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR 1 HP MOTOR AND LARGER.
2 PROVIDE SOLID STATE SPEED CONTROLLER, FACTORY MOUNTED.
4 PROVIDE BACKDRAFT DAMPER, GRAVITY OPERATED.
11 PROVIDE RUBBER-IN-SHEAR ISOLATORS.
20 PROVIDE WHITE, ALUMINUM INLET GRILLE.
21 PROVIDE TIME DELAY SWITCH, INSTANT ON WITH LIGHTS AND 10-MINUTE TIME DELAY OFF. WIRED BY DIV 26 CONTRACTOR.
50 SEE DETAIL H/M501 FOR FAN CONTROLS.

DESIGN CONDITIONS

OUTDOOR CONDITIONS - DESIGN DAY (TALLAHASSEE, FLORIDA)			
	COOLING (0.4% ANNUAL)	°Fdb - °Fwb	96.2 - 76.2
	HEATING (99.6% ANNUAL)	°Fdb	26.5
INDOOR CONDITIONS - SUMMER			
	OFFICE AREAS	°Fdb - %RH	74 - 55
	TELECOMMUNICATION ROOMS	°Fdb - %RH	78 - 55
	MECHANICAL / ELECTRICAL ROOMS / SERVICE AREAS	°Fdb - %RH	80 - 50
INDOOR CONDITIONS - WINTER			
	OFFICE AREAS	°Fdb - %RH	70 - 30
	TELECOMMUNICATION ROOMS	°Fdb - %RH	65 - 30
	MECHANICAL / ELECTRICAL ROOMS / SERVICE AREAS	°Fdb - %RH	70 - 30

VENTILATION RATE

		EXHAUST AIR	OUTSIDE AIR	
TYPE OF SPACE		CFM / FT_2	CFM / PERSON	CFM / FT_2
	BREAK ROOMS		5	0.06
	COMPUTER LAB		10	0.12
	CONFERENCE / MEETING		5	0.06
	CORRIDORS		0	0.06
	JANITOR / TRASH	1	0	0.00
	LIBRARIES		5	0.12
	LOBBIES		5	0.06
	OFFICE SPACE		5	0.06
	RECEPTION AREAS		5	0.06
	STORAGE ROOMS (UNOCCUPIED)		0	0.00
	TOILET (PUBLIC)	50/70	0	0.00

NOTES:

1 VENTILATION RATES CALCULATED PER REQUIREMENTS OF FBC, MECHANICAL 2023.
2 EXHAUST IS PER WATER CLOSET AND/OR URINAL. LOWER RATE USED.

DUCTLESS SPLIT SYSTEM TYPES

TYPE			D1
DESCRIPTION			COOLING ONLY
PERFORMANCE - (NOTES 1 & 2)			
	NOMINAL CAPACITY	TONS	2
	TOTAL COOLING CAPACITY	BTUH	22,400
	SENSIBLE COOLING CAPACITY	BTUH	16,360
	HEATING CAPACITY @ 47 °F	BTUH	N/A
	HEATING CAPACITY @ 17 °F	BTUH	N/A
	AIR FLOW RATE (HIGH - LOW)	CFM	716 - 467
	SEER2	BTU / W-HR	21.0
	HSPF2	BTU / W-HR	N/A
INDOOR UNIT DATA			
	FILTERS		1" WASHABLE
	CONDENSATE DRAIN SIZE	IN.	3/4
	ELECTRICAL CHARACTERISTICS	V / PH	N/A
	MINIMUM CIRCUIT AMPACITY	AMPS	N/A
	MAXIMUM OVERLOAD PROTECTION	AMPS	N/A
	WEIGHT	LBS.	30.5
OUTDOOR UNIT DATA			
	COMPRESSOR TYPE		INVERTER
	ELECTRICAL CHARACTERISTICS	V / PH	208 / 1
	MINIMUM CIRCUIT AMPACITY	AMPS	16.3
	MAXIMUM OVERLOAD PROTECTION	AMPS	20
	WEIGHT	LBS.	101
MAX REFRIGERANT LINE LENGTH		FT	99
REFRIGERANT TYPE			R32
MANUFACTURER			DAIKIN
MODEL NUMBER (INDOOR UNIT)			FTKF24AXVJU
MODEL NUMBER (OUTDOOR UNIT)			RKF24AXVJU
DETAIL REFERENCE			F/M501

NOTES:

1 COOLING CAPACITY RATED @ 95 °F AMBIENT, 80 °Fdb / 67 °Fwb ENTERING AIR TEMPERATURE.
2 HEATING CAPACITY RATED @ 47 °Fdb / 43 °Fwb AMBIENT, 70°Fdb ENTERING AIR TEMPERATURE.
3 UNIT SHALL BE CAPABLE OF OPERATION FOR AMBIENT TEMPERATURES DOWN TO 14°F
4 REFRIGERANT PIPING SHALL BE SIZED BY MANUFACTURER.
5 PROVIDE INTEGRAL CONDENSATE SENSOR TO SHUT UNIT OFF IF HIGH CONDENSATE LEVELS ARE DETECTED IN THE DRAIN PAN.

DUCTLESS SPLIT SYSTEMS

INDOOR UNIT DESIGNATION		DSSI-1
OUTDOOR UNIT DESIGNATION		DSSO-1
	SCHEDULED TYPE	D1
	DESCRIPTION	COOLING ONLY
	FAN SPEED	MEDIUM
	NOTES	1, 4

NOTES:

1 PROVIDE ELECTRONIC PROGRAMMABLE THERMOSTAT.
4 INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT. PROVIDE FIELD SUPPLIED INTERCONNECTED WIRING PER MANUFACTURER'S INSTRUCTIONS.

BUILDING AIR BALANCE - EQUIPMENT SUMMARY

OUTSIDE AIR SOURCE	CFM	EXHAUST SOURCE	CFM
DOAS-1	1,000	EF-A1 (INTERMITTENT)	150
		EF-A2 (INTERMITTENT)	150
		EF-B1	50
		EF-B2 (INTERMITTENT)	50
		EF-B3 (INTERMITTENT)	50
TOTAL	1,000	TOTAL	450
BUILDING PRESSURIZATION		(+)	550

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100% CDs	7/21/25	JPT	MPP

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CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

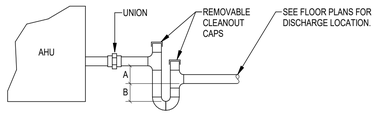
SHEET TITLE
SCHEDULES

M402

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G RESERVED

D CONDENSATE DRAIN



NOTES:

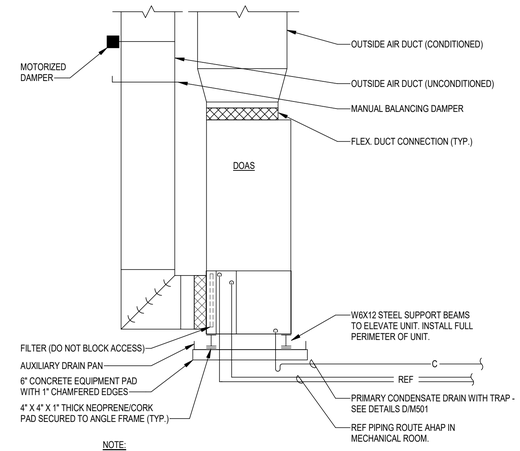
1. DRAIN LINE SHALL BE AT LEAST THE SAME SIZE AS THE CONNECTION ON THE DRAIN PAN (3/4" MIN.)
2. DRAIN LINE SHALL SLOPE 1/8" PER FOOT (MIN.)

UNIT TYPE	A	B
DRAW-THRU	X PLUS 2"	X
BLOW-THRU	1" MIN.	2X

WHERE X=STATIC PRESSURE IN PAN

5646.1

A VERTICAL DOAS



NOTE:

1. PROVIDE A FLOAT SWITCH IN THE AUXILIARY DRAIN PAN INTERLOCKED WITH DOAS FAN.

5627.0

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100% CDs	7/21/25	JPT	MPP

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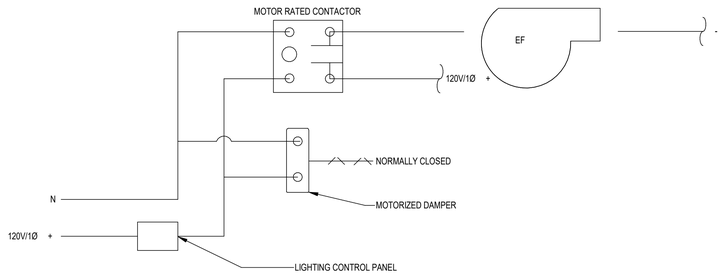
#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
DETAILS

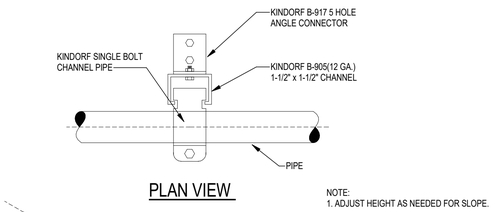
M501



NOTES:

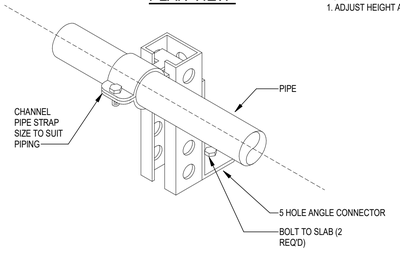
1. MECHANICAL CONTRACTOR SHALL PROVIDE 120V/1PH, 2 POSITION, NORMALLY CLOSED, OPPOSED BLADE, LOW LEAKAGE DAMPER AND BELIMO ACTUATOR.
2. SET LIGHTING CONTROL PANEL TO POWER OPEN DAMPER AND ENABLE EXHAUST FAN,ON OCCUPIED SCHEDULE. (INITIAL SCHEDULE 7:00 AM - 5:00 PM)
3. WIRING BY DIVISION 26. SEE ELECTRICAL DRAWINGS.

H OA DAMPER AND EXHAUST FAN CONTROLS



PLAN VIEW

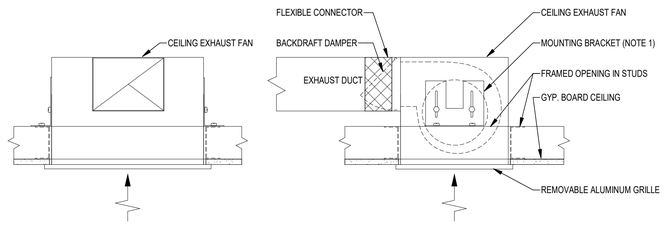
NOTE:
1. ADJUST HEIGHT AS NEEDED FOR SLOPE.



ISOMETRIC VIEW

1P52.3

J PIPE SUPPORT FOR CONDENSATE DRAIN PIPING



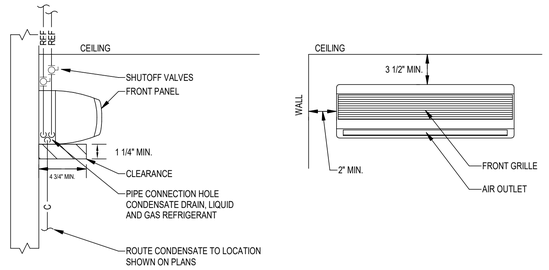
FRONT VIEW SIDE VIEW

NOTES:

1. SUPPORT CEILING FAN LOCATED ABOVE LAY-IN CEILING FROM THE BUILDING STRUCTURE, INDEPENDENT OF CEILING.

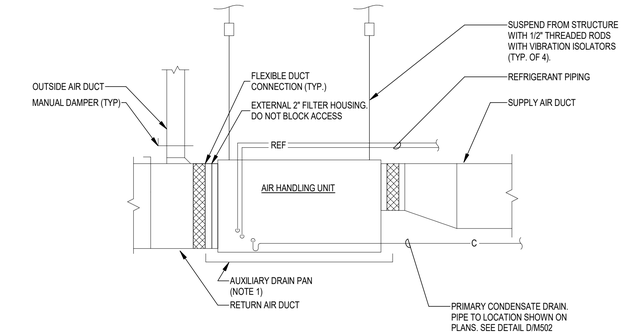
5626

E CEILING EXHAUST FAN



5672.3

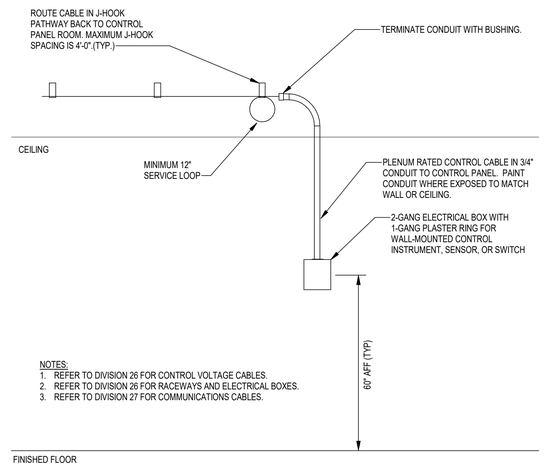
F DUCTLESS - WALL MOUNTED INDOOR UNIT



NOTE:
1. PROVIDE A FLOAT SWITCH IN THE AUXILIARY DRAIN PAN INTERLOCKED WITH AHU FAN.

5659.2

B HORIZONTAL AIR HANDLING UNIT

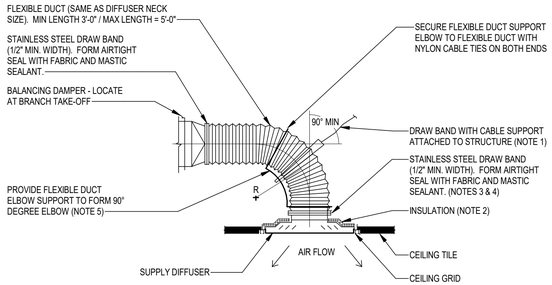


NOTES:
1. REFER TO DIVISION 26 FOR CONTROL VOLTAGE CABLES.
2. REFER TO DIVISION 26 FOR RACEWAYS AND ELECTRICAL BOXES.
3. REFER TO DIVISION 27 FOR COMMUNICATIONS CABLES.

1C31

C WALL-MOUNTED CONTROL DEVICE ROUGH-IN

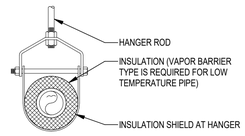
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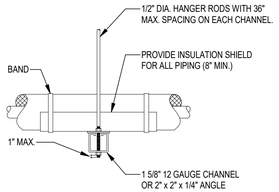
NOTES:
1. FLEXIBLE DUCT SHALL NOT HAVE MORE THAN 1/2" SAG PER FOOT.
2. PROVIDE INSULATION ON BACK OF DIFFUSERS (SEE SPECIFICATIONS). SEAL VAPOR TIGHT WITH FABRIC AND MASTIC.
3. PULL INNER LINER OF FLEXIBLE DUCT OVER DIFFUSER COLLAR AND SECURE WITH DRAW BAND.
4. SECURE FLEXIBLE DUCT INSULATION AND OUTER JACKET WITH DRAW BAND.
5. MAINTAIN MINIMUM RADIUS (R) OF 1.5 TIMES THE DUCT DIAMETER.

M245

G FLEXIBLE DUCT CONNECTION TO SUPPLY DIFFUSER



ADJUSTABLE CLEVIS HANGER



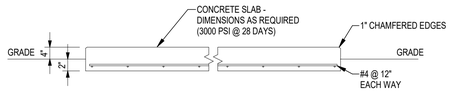
SIDE VIEW

TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

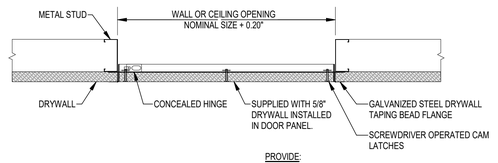
NOTES:
1. SEE SPECIFICATIONS FOR SPACING OF HANGERS.
2. PROVIDE PIPING SUPPORTS AT MAXIMUM SPACING ALLOWED BY TABLE 4 OF ANSI/MSS SP-58 FOR SMALLEST PIPE INSTALLED IN MULTIPLE PIPE RUN.
3. PROVIDE ADDITIONAL SUPPORTS AT CHANGES IN DIRECTION AS REQUIRED BY ANSI/MSS SP-58 OR AS REQUIRED BY DELEGATED DESIGN FOR WIND LOADING AT PROJECT SITE.
4. PROVIDE SPRING ISOLATORS FOR FIRST 3 HANGERS UP TO BEYOND EQUIPMENT CONNECTION AND/OR THROUGHOUT MECHANICAL ROOM.

M140.3

H TYPICAL PIPE HANGERS



J CONCRETE EQUIPMENT SLAB

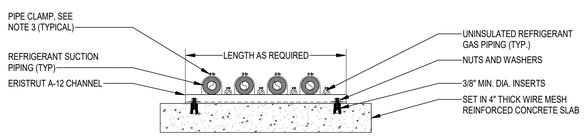


NOTES:
1. ACCESS DOOR SHALL BE NOMINAL 24"x24" UNLESS NOTED OTHERWISE.
2. LOCATE DOOR IN CEILING OR WALL TO ALLOW UNOBSTRUCTED ACCESS TO EQUIPMENT, DAMPERS, ETC. AND NOT IN CONFLICT WITH LIGHTS, DIFFUSERS, SPRINKLERS, ETC.
3. ATTACH FRAME OF ACCESS PANEL TO CEILING OR WALL FRAMED OPENING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

PROVIDE:
1. ACUDOOR PRODUCTS, INC. DW-5058.
2. CONCEALED HINGE WITH REMOVABLE DOOR PANEL.
3. EXTRUDED ALUMINUM DOOR AND FRAME CONSTRUCTION.
4. REVERSIBLE DOOR PANEL ACCOMMODATES EITHER 5/8" OR 1/2" DRYWALL
5. SAFETY CHAIN FOR SIZES OVER 12"x12".
6. SCREWDRIVER OPERATED CAM LATCH.

M753.2

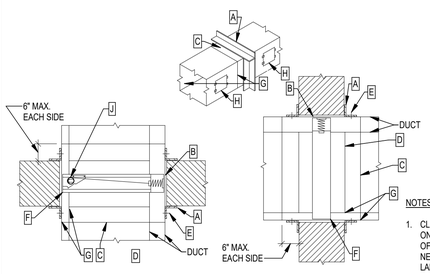
D RECESSED EQUIPMENT ACCESS PANEL - DRYWALL FACE



NOTES:
1. SECURE REFRIGERANT PIPING EVERY 5'-0" MAXIMUM.
2. PITCH ALL HORIZONTAL SUCTION PIPING A MINIMUM OF 1/2" IN 10 FEET IN DIRECTION OF FLOW.
3. PROVIDE B-LINE ARMAFIX CLAMPS FOR REFRIGERANT SUCTION PIPING.

M165.0

C TYPICAL METHOD OF SECURING REFRIGERANT PIPING



A RETAINING ANGLES: MINIMUM 1 1/2" x 1 1/2" x 0.054 (16 GAUGE). RETAINING ANGLES MUST LAP STRUCTURAL OPENING 1" MINIMUM AND COVER OPENINGS OF CORNERS. CAULK THE EXTERIOR PERIMETER OF FIRE DAMPER RETAINING ANGLES WITH A THIN FILLET OF AN APPROVED CAULKING MATERIAL TO PREVENT THE PASSAGE OF SMOKE AND ALLOW MOVEMENT OF THE ANGLE.

B CLEARANCE: 1/8" PER LINEAR FOOT IN BOTH DIMENSIONS (SEE NOTE 1 BELOW).

C STEEL SLEEVE: 14 GAUGE, OR AS ALLOWED BY U.L. STANDARD 555.

D APPROVED FIRE DAMPER: CURTAIN OR BLADE TYPE.

E SECURE RETAINING ANGLES TO SLEEVE: ON 8" CENTERS WITH 1/2" LONG WELDS, OR 1/4" BOLTS AND NUTS, OR #10 STEEL SCREWS, OR MINIMUM 3/16" STEEL RIVETS.

F SECURE FIRE DAMPER TO SLEEVE: ON 8" CENTERS WITH 1/2" LONG WELDS, OR 1/4" BOLTS AND NUTS, OR #10 STEEL SCREWS, OR MINIMUM 3/16" STEEL RIVETS.

G CONNECT DUCT TO SLEEVE OR FIRE DAMPER: WITH BREAKAWAY CONNECTION.

H INSTALL HINGED ACCESS DOOR

J NEGATOR CLOSURE SPRING

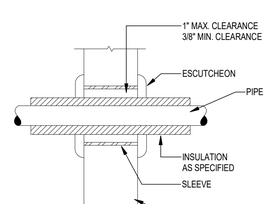
NOTES:
1. CLEARANCE REQUIREMENTS FOR FIRE DAMPER SLEEVES WITHIN OPENING IS BASED ON 1/8" PER FOOT OF WIDTH (OR HEIGHT) UNLESS OTHERWISE STATED IN THE LISTING OF THE ASSEMBLY. THE SLEEVE MAY REST ON THE BOTTOM OF THE OPENING, AND NEED NOT BE CENTERED. (FRACTIONAL DIMENSIONS SHALL BE TAKEN AS THE NEXT LARGER WHOLE FOOT). EXAMPLE: A 30" x 24" FIRE DAMPER SLEEVE IS INSTALLED IN WALL/FLOOR OPENING. THE OPENING SHALL BE 30 3/8" WIDE (1/8"X 3') BY 24 1/4" HIGH (1/8" x 2').

   THE SLEEVE IS RETAINED IN THE WALL/FLOOR BY THE USE OF STEEL RETAINING ANGLES A. THESE MUST OVERLAP THE EDGE OF THE FRAMING BY A MINIMUM OF ANGLES A. THESE MUST OVERLAP THE EDGES OF THE FRAMING BY A MINIMUM OF ONE (1) INCH OVER AND BEYOND ALL MATERIAL IN THE OPENING. THIS MEANS THAT THE MINIMUM WIDTH OF THE RETAINING ANGLE WOULD BE 1 3/8 ". (GOOD PRACTICE CALLS FOR AN ADDITIONAL SAFETY FACTOR BY MAKING THE ANGLE IN THIS CASE 1 1/2" WIDE.

   THE DIMENSIONS REQUIRED FOR THE OPENING SHALL BE THOSE REMAINING AFTER THE OPENING HAS BEEN FRAMED AND THE FIRE RESISTIVE MATERIALS PROVIDED WERE REQUIRED. THE FIRE RESISTIVE MATERIALS SHALL BE EQUAL TO THE REQUIREMENTS FOR FIRE RESISTIVE MATERIALS USED IN THE CONSTRUCTED WALL SO THAT A CONTINUOUS RATING EXISTS AT THE WALL/FLOOR PENETRATION. THE CONTRACTOR ERECTING THE WALL/FLOOR IS RESPONSIBLE FOR PROVIDING THE FIRE RESISTIVE MATERIAL AND CORRECT SIZE OPENINGS TO ACHIEVE THE REQUIRED CLEARANCE.
2. THE FIRE DAMPER MANUFACTURER'S INSTALLATION DETAILS AND INSTRUCTIONS AS TESTED AND APPROVED BY U.L. MUST BE USED IN LIEU OF THE ABOVE DETAILS WHERE APPLICABLE.

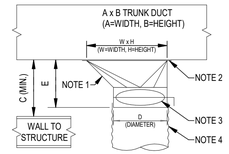
M87.1

F FIRE DAMPER INSTALLATION



M140.2

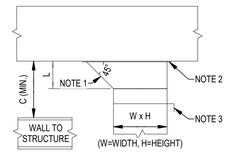
A PIPE PENETRATION OF NON-FIRE RATED WALL



ROUND DUCT

D	E (NOTE 5)	WxH (NOTE 5)	TRUNK DUCT HEIGHT (B MIN.)	C	
				NO FIRE DAMPER	WITH FIRE DAMPER
6	8.5	12 x 6	8	9	12
8	8.5	12 x 6	8	9	12
10	9.5	16 x 6.75	10	10	13
12	10.5	18 x 8.5	12	11	14
14	10.5	20 x 9.5	12	11	14
16	12	24 x 12	14	13	16

DIMENSIONS BASED ON CROWN PRODUCTS CO., INC.



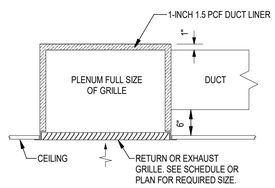
RECTANGULAR DUCT

NOTES:
1. 45° ENTRY.
2. 1" WIDE FLANGE WITH GASKET SEAL AROUND ENTIRE PERIMETER.
3. PROVIDE MANUAL BALANCING DAMPER. OPERATOR SHALL PENETRATE INSULATION.
4. USE ROUND TYPE TAKE-OFF FOR SUPPLY AIR TO NOT MORE THAN ONE TERMINAL.
5. USE ROUND TYPE TAKE-OFF FOR SUPPLY AIR TO NOT MORE THAN ONE TERMINAL. DIAMETER, PROVIDE TRANSITION FITTING OF EQUIVALENT AREA TO THE RUNOUT DUCT.

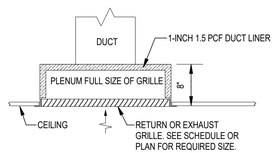
L = W/4 (4"MIN.)
H = B-2 (MAX.)
C = L+4 (WITH FIRE DAMPER)
C = L+2 (WITHOUT FIRE DAMPER)

M450

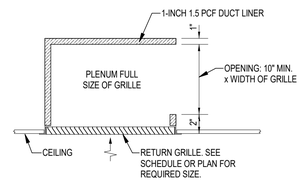
B TYPICAL DUCT TAKE-OFF FITTINGS



SIDE ENTRY



TOP ENTRY



PLENUM RETURN GRILLES

NOTES:
1. INSTALL BLADES OF GRILLE SO SIGHT LINE INTO PLENUM IS OBSCURED FROM ROOM.
2. PROVIDE APPROPRIATE MOUNTING HARDWARE FOR GRILLE TO ACCOMMODATE CEILING TYPE.

M470.3

C RETURN OR EXHAUST CEILING GRILLE

H2 ENGINEERING
114 EAST 5th AVENUE
TALLAHASSEE, FL 32303
PHONE 850.224.7922
www.H2Engineering.com

H2E PROJECT No.24/02

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	JPT	MPP

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
DETAILS

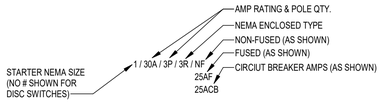
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POWER

	DUPLEX RECEPTACLE - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, MOUNT 18" AFF WITH GROUND PRONG UP UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE - GFCI - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, MOUNT 18" AFF WITH GROUND PRONG UP UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE - ABOVE COUNTERTOP - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, MOUNT 6" ABOVE COUNTERTOP WITH GROUND PRONG UP UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE - ABOVE COUNTERTOP - GFCI - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE WITH GROUND PRONG UP UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE - 120VOLT, 20AMP, 3 POLE GROUNDING TYPE WITH 1-USB TYPE A AND 1-USB TYPE C CHARGING PORTS, 3.1A CAPACITY. PROVIDE DECORATIVE FACEPLATE TO MATCH OTHER DEVICES IN ROOM. MOUNT 42" AFF UNLESS NOTED OTHERWISE. LEGRAND TR20USBACW OR EQUAL
	QUADRAPLEX RECEPTACLE - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, MOUNT 18" AFF WITH GROUND PRONG UP UNLESS NOTED OTHERWISE.
	QUADRAPLEX RECEPTACLE - GFCI - 120 VOLT, 20 AMP, 3 POLE GROUNDING TYPE, MOUNT 18" AFF WITH GROUND PRONG UP UNLESS NOTED OTHERWISE.
	SPECIAL PURPOSE RECEPTACLE - MOUNT 18" AFF UNLESS NOTED OTHERWISE. COORDINATE RECEPTACLE TYPE WITH EQUIPMENT BEING SERVED.
SPD FB1 / SPD FB2	FLOORBOX. FB# INDICATES TYPE, REFER TO WALL AND FLOOR BOX SCHEDULE FOR MORE INFORMATION. ELECTRICAL CONTRACTOR TO PROVIDE FLOORBOX AND RACEWAY. SEE TELECOMMUNICATION AND AUDIO/VISUAL DRAWINGS FOR ASSOCIATED RACEWAY REQUIREMENTS.
WB2 SPD / WB1 SPD	WALLBOX. WB# INDICATES TYPE, REFER TO WALL AND FLOOR BOX SCHEDULE FOR MORE INFORMATION. ELECTRICAL CONTRACTOR TO PROVIDE WALLBOX AND RACEWAY. SEE TELECOMMUNICATION AND AUDIO/VISUAL DRAWINGS FOR ASSOCIATED RACEWAY REQUIREMENTS.
XXX-X-X #	ACCESS CONTROL DOOR IDENTIFIER - ELECTRICAL CONTRACTOR SHALL PROVIDE RACEWAY. COORDINATE WITH SECURITY CONTRACTOR. REFER TO ELECTRONIC SAFETY AND SECURITY SHEETS FOR INFORMATION ON REQUIREMENTS AND RACEWAYS.
S	30A TOGGLE DISCONNECT SWITCH. PROVIDE 1, 2 OR 3 POLE AS NECESSARY TO MATCH CONTROLLED CIRCUIT.
	WIRE IN CONDUIT - CONCEALED IN WALL OR CEILING.
	WIRE IN CONDUIT - CONCEALED IN FLOOR OR UNDERGROUND.
	CONDUIT - STUB OUT AND CAP
	HOMERUN TO PANEL - ARROW INDICATE NUMBER OF CIRCUITS. SHORT SLASH MARK(S) INDICATE NUMBER OF PHASE CONDUCTORS. LONG SLASH MARK(S) INDICATE NEUTRAL CONDUCTOR(S). LONG SLASH MARK WITH HOOK INDICATES GREEN GROUND WIRE; WHERE NOT SHOWN GROUND WIRE IS STILL REQUIRED IN EACH FEEDER, LIGHTING, RECEPTACLE, AND POWER BRANCH CIRCUIT. NO SLASH MARKS INDICATE 2 CURRENT CARRYING CONDUCTORS AND GROUND WIRE. THERE SHALL BE NO SHARED NEUTRALS BETWEEN MULTIPLE CIRCUITS.
	ELECTRICAL PANEL - 120/208 VOLT
	ELECTRICAL PANEL - 277/480 VOLT
J	JUNCTION BOX - 4" SQUARE (UNO)
	EMERGENCY "STOP" PUSH-BUTTON, MAINTAINED PUSH / KEY RELEASE. PROVIDE 2-GANG BACK BOX WITH SINGLE HOLE STAINLESS STEEL FACEPLATE. #DAYTON 30G258 OR APPROVED EQUAL
	DISCONNECT SWITCH - SEE DRAWING OR MECHANICAL EQUIPMENT SCHEDULE FOR SIZE
PGB	POWER GROUNDING BAR
S	SINGLE-POLE MOTOR RATED TOGGLE SWITCH - 120/277 VOLT, 20 AMP U.N.O.

* EQUIPMENT SIZES WILL BE INDICATED AS FOLLOWS:



LIGHTING AND LIGHTING CONTROLS

A #	LIGHT FIXTURE - LETTER INDICATES FIXTURE TYPE; # INDICATES ZONE, WHERE SHOWN
	LAY-IN, RECESSED OR SURFACE MOUNT TROFFER
	SHADING OR "EM" INDICATES FIXTURE ON EMERGENCY CIRCUIT
	ARCHITECTURAL CURVED PANEL. ARROWS INDICATE LOCATION OF CURVED EDGES.
	STRIP FIXTURE
	RECESSED DOWNLIGHT FIXTURE, ROUND OR SQUARE
	SUSPENDED PENDANT FIXTURE
	RECESSED LINEAR FIXTURE
	EXIT LIGHT FIXTURE - PROVIDE ARROWS WHERE SHOWN. SHADING INDICATES FACE(S) OF EXIT LIGHT (POWERED EXIT SIGNS SHALL BE WIRED "UNSWITCHED")
	EMERGENCY LIGHTING UNIT
	POLE MOUNTED FIXTURE
	EXTERIOR POST-TOP OR GROUND MOUNTED FIXTURE
P	PHOTOCONTROL - WALL MOUNT ELECTRONIC, 120-277V. PROVIDE 1-GANG BOX FOR MOUNTING. INTERMATIC; MODEL# EK4336S OR APPROVED EQUAL.
	DENOTES WALL MOUNTED DEVICE
S	SINGLE-POLE TOGGLE SWITCH - 120/277 VOLT, 20 AMP, MOUNT 48" AFF
$D_\#$	DIGITAL DIMMING WALL SWITCH, # INDICATES CONTROLLED ZONES. MOUNT 48" AFF. PROVIDE PRE-ENGRAVED DIM UP & DIM DN BUTTON FOR EACH CONTROLLED ZONE. WATTSTOPPER; LMSW-10x-EN2 OR APPROVED EQUAL.
$B_\#$	DIGITAL ON/OFF WALL SWITCH, # INDICATES CONTROLLED ZONES. MOUNT 48" AFF. MATCH QUANTITY OF SWITCHES TO NUMBER OF CONTROLLED ZONES; ENGRAVED ON/OFF. WATTSTOPPER; LMSW-10x-ENG1 OR APPROVED EQUAL.
RC #	DIGITAL 10A, ON/OFF/1-10 VOLT DIMMING ROOM CONTROLLER. # INDICATES CONTROLLED ZONE(S). PROVIDE 1 OR 2 RELAYS AS REQUIRED FOR CONTROLLED ZONES. WATTSTOPPER; 110 SERIES OR APPROVED EQUAL.
$V_\#$	VACANCY SENSOR - WALL MOUNTED, LINE VOLTAGE, DUAL TECHNOLOGY. # INDICATES QUANTITY OF RELAYS, WHERE OMITTED PROVIDE 1 RELAY. MOUNT 48" AFF. WATTSTOPPER; DW-100/200 OR APPROVED EQUAL.
M	LINE VOLTAGE OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY. # INDICATES CONTROLLED ZONE(S). (WATTSTOPPER; DT-355 OR EQUAL)
M	DIGITAL OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY. # INDICATES CONTROLLED ZONES. WATTSTOPPER: LMDC-100 OR APPROVED EQUAL.
ELCR #	EMERGENCY LIGHTING CONTROL RELAY - 20A LOAD RATING WITH STATUS LEDS FOR DIMMING APPLICATIONS. PROVIDE 0-10V CONTROL/BYPASS. PROVIDE FIRE ALARM CONTACT INTERFACE. # INDICATES CONTROLLED ZONE: SHALL OPERATE IN CONJUNCTION WITH NORMAL LIGHTING ZONE. (LVS CONTROLS EPC-2 / EPC-2-D OR NINE24 ELCR-R-FAI / ELCR-Z10-FAI.)

R1	LIGHTING CONTROL PANEL RELAY DESIGNATION - DENOTED AS R# LETTER INDICATES CONTROL TYPE. # INDICATES ZONE
	E= EMERGENCY
	R=RELAY
	D=DIMMING

APPLICABLE CODES

PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

1. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA).

2. NATIONAL FIRE CODES
   a. NFPA 1 — UNIFORM FIRE CODE - 2021 (FLORIDA EDITION)
   b. NFPA 70 — NATIONAL ELECTRICAL CODE - 2020
   c. NFPA 72 — NATIONAL FIRE ALARM AND SIGNALING GUIDE - 2019
   d. NFPA 101 — LIFE SAFETY CODE - 2021 (FLORIDA EDITION)

3. FLORIDA BUILDING CODE, 2023 EDITION [INTERNATIONAL BUILDING CODE, 2024 EDITION]
   1. BUILDING CODE
   2. ENERGY CONSERVATION CODE
   3. FIRE CODE
   4. ACCESSIBILITY CODE

4. FLORIDA STATUTES
   1. CHAPTER 471 — ENGINEERING
   2. CHAPTER 533.80 — BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT

5. FLORIDA ADMINISTRATIVE CODE
   a. CHAPTER 9B-7 — FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
   b. CHAPTER 61G15-33 — RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF ELECTRICAL SYSTEMS
   c. CHAPTER 69A-3 — FIRE PREVENTION - GENERAL PROVISIONS
   d. CHAPTER 69A-60 — THE FLORIDA FIRE PREVENTION CODE

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

ELECTRICAL GENERAL NOTES

1. WIRING SHALL BE COPPER, TYPE THHN/THWN-2 IN RACEWAY UNLESS NOTED OTHERWISE. RIGID ELECTRICAL NON-METALLIC SCHEDULE 40 PVC SHALL BE USED IN SLABS AND BELOW GRADE ; RIGID STEEL CONDUIT (RSC) SHALL BE USED WHERE EXPOSED TO PHYSICAL DAMAGE; ELECTRICAL METALLIC TUBING (EMT) MAY BE USED ELSEWHERE WHERE APPROVED BY N.E.C. AND LOCAL CODES. FLEXIBLE METAL CONDUIT (FMC) SHALL BE STEEL AND SHALL BE USED TO CONNECT MOVEABLE EQUIPMENT AND/OR SUBJECT TO VIBRATION; LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LFMC) SHALL BE USED OUTDOORS OR WHERE SUBJECT TO MOISTURE.
2. CONDUIT SHALL BE STRAPPED IN ACCORDANCE WITH REQUIREMENTS OF N.E.C.
3. CONTRACTOR SHALL BOND AND GROUND SYSTEMS AND EQUIPMENT PER ARTICLE 250 OF N.E.C. PROVIDE A GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH ARTICLE 250-122 N.E.C. ON ALL RECEPTACLES AND POWER BRANCH CIRCUITS.
4. LIGHTING FIXTURES SHALL BE SECURELY FASTENED AND SUPPORTED PER N.E.C.
5. THE CONTRACTOR SHALL COORDINATE THE CIRCUIT REQUIREMENTS WITH THE MANUFACTURER OF THE ACTUAL EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF WORK. THE CIRCUIT BREAKER, WIRE AND CONDUIT SHALL BE SIZED AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
6. CIRCUIT BREAKERS SHALL BE BOLT-IN TYPE.
7. PROVIDE A LAMINATED PLASTIC NAMEPLATE IDENTIFYING EACH NEW PANELBOARD, MOTOR STARTER AND DISCONNECT SWITCH. LETTERING SHALL BE 1/2" MINIMUM AND SHALL IDENTIFY EQUIPMENT SERVED, FEEDER ORIGINATION AND CIRCUIT NUMBER. SECURE NAMEPLATE WITH SCREWS TO EQUIPMENT TO BE IDENTIFIED. PLASTIC TAPE IS NOT ACCEPTED.
8. ELECTRICAL CONNECTIONS AND ASSOCIATED ROUGH-IN FOR EQUIPMENT FURNISHED BY OWNER OR OTHER TRADE CONTRACTORS SHALL BE CONSTRUCTED BY ELECTRICAL CONTRACTOR. VERIFY CONNECTION SIZE, RATING, AND LOCATION WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN.
9. IN ATTICS AND UNDERFLOOR SPACES CONTAINING EQUIPMENT REQUIRING SERVICING SUCH AS HEATING, AIR-CONDITIONING, AND REFRIGERATION EQUIPMENT, PROVIDE AT LEAST ONE LIGHTING OUTLET (FIXTURE) CONTAINING A SWITCH OR CONTROLLED BY A WALL SWITCH. AT LEAST ONE POINT OF CONTROL SHALL BE LOCATED AT THE USUAL POINT OF ENTRY TO THESE SPACES. ALSO PROVIDE RECEPTACLE OUTLET(S) AT READILY ACCESSIBLE LOCATION(S) FOR SERVICING THE EQUIPMENT.
10. A 120V/20A GFI RECEPTACLE SHALL BE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR-CONDITIONING, AND REFRIGERATION EQUIPMENT. THE RECEPTACLE SHALL BE LOCATED ON THE SAME LEVEL AND WITHIN 25 FT OF THE HEATING, AIR-CONDITIONING, AND REFRIGERATION EQUIPMENT. THE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTING MEANS.
11. DEVICE MOUNTING HEIGHTS INDICATED SHALL BE TO DEVICE CENTER LINE.
12. RELOCATE, AS REQUIRED, ANY EXISTING WIRE AND CONDUIT WHICH INTERFERES WITH INSTALLATION OF THE NEW WORK.
13. EXTERIOR DEVICES SHALL BE WEATHER PROOF ENCLOSURES AND GFI RATED IN ACCORDANCE WITH N.E.C. INSTALLER REQUIRED TO VERIFY PRIOR TO ORDERING MATERIALS.
14. EACH FEEDER, UNGROUNDED CONDUCTOR, AND GROUNDED CONDUCTOR SHALL BE IDENTIFIED BY PHASE OR LINE AND SYSTEM AT ALL TERMINATION, CONNECTION, AND SPLICE POINTS.

ABBREVIATIONS

ACT	ABOVE COUNTERTOP	EXP	EXPLOSION PROOF
AFC	AVAILABLE FAULT CURRENT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	GFI	GROUND FAULT INTERRUPTER
AFF	ABOVE FINISHED FLOOR	GFIB	GROUND FAULT INTERRUPTER BREAKER
AFG	ABOVE FINISHED GRADE	G	GROUND
ATS	AUTOMATIC TRANSFER SWITCH	GRC	GALVANIZED RIGID CONDUIT
BF	BELOW RAISE COMPUTER FLOOR	HID	HIGH INTENSITY DISCHARGE
C	CONDUIT	IG	ISOLATED GROUND
CC	COMMUNICATION CABINET	MCC	MOTOR CONTROL CENTER
CR	COMMUNICATION RACK	MSB	MAIN SWITCH BOARD
CER	COMMUNICATION EQUIPMENT ROOM	NL	NIGHT LIGHT
CLG	DEVICE LOCATED ON CEILING	PGB	POWER GROUNDING BAR
CNT	CONTACTOR	PNL	ELECTRICAL PANEL
DISC	DISCONNECT	RE	REPLACE DEVICE
DN	DOWN	REL	RELOCATE DEVICE
EC	ELECTRICAL CONTRACTOR	TC	TIME CLOCK
EM	FIXTURE WITH EMERGENCY BATTERY OR ON EMERGENCY CIRCUIT	TGB	TELECOM GROUNDING BAR
		TP	TAMPER PROOF DEVICE
ER	RELOCATED ELECTRICAL DEVICE	TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	UNO	UNLESS NOTED OTHERWISE
EX	EXISTING DEVICE TO REMAIN	WP	WEATHERPROOF

GENERAL NOTES

1. INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2020, THE FLORIDA FIRE PREVENTION CODE, THE NATIONAL ELECTRICAL CODE 2017 EDITION, AND ALL CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION AT THIS SITE. WHERE CONFLICTS OCCUR BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
2. DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ALL DIMENSIONS.
3. FIELD VERIFY ALL DIMENSIONS AND ALL CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, CONTRACTOR IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF CONTRACTOR PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFICIENCIES ASSOCIATED THEREWITH.
4. BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH CONTRACTOR WILL BE OBLIGED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON CONTRACTOR'S PART.
5. THE CONTRACTOR SHALL PAY FOR ALL INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH CONTRACTOR'S WORK.
6. CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR COORDINATING WORK OF ALL SUBCONTRACTORS TO AVOID INTERFERENCES.
7. ALL WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
8. ERECT AND MAINTAIN ALL REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
9. COORDINATE AND SEQUENCE ALL DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
10. THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. CONTRACTOR SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY MOBILIZE, PROCEED WITH AND COMPLETE THE WORK.
11. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF ALL EQUIPMENT AND MATERIALS.
12. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF ALL DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
13. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE OWNER AT COMPLETION OF CONSTRUCTION.
14. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
15. CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS, PRODUCT DATA AND SAMPLES".
16. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
17. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF ALL WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKER BOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
18. NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
19. ENTRY AND REMOVAL OF EQUIPMENT FROM THE BUILDING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR ANY DAMAGED MATERIALS TO THEIR ORIGINAL CONDITION. SURFACES SHALL BE REPAIRED TO MATCH THE EXISTING ADJACENT UNDAMAGED SURFACES.
20. PROTECT THE ROOF FROM DAMAGE WHENEVER ANY WORK ON THE ROOF IS REQUIRED.
21. SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
22. ALL EXTERIOR STRUCTURES INCLUDED, BUT NOT LIMITED TO, THE GENERATOR AND GENERATOR FENCE/WALL SHALL BE INSTALLED TO RESIST 110 MPH WIND LOAD.
23. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE AND SMOKE WALL ASSEMBLIES AND ACOUSTICAL WALLS.
24. BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
25. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS.
26. THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION. THE OWNER WILL MAKE ALL REASONABLE EFFORTS TO ASSIST THE CONTRACTOR IN COMPLETING THE WORK. COORDINATE ALL WORK WITH THE OWNER'S DESIGNATED REPRESENTATIVE.
27. EXIT WAYS SHALL BE KEPT CLEAR. IF AN EXIT MUST BE TEMPORARILY BLOCKED, PROVIDE THE REQUIRED BARRICADE AND DIRECTIONAL SIGNS FOR TEMPORARY EXITING AND SAFETY.
28. REMOVE AND REPAIR OR RE-INSTALL EXISTING CEILING ASSEMBLIES AS REQUIRED. REPLACE ANY ASSEMBLIES DAMAGED OR SOILED DURING CONSTRUCTION.
29. PROVIDE PROPER PROTECTIVE MEASURES TO PROTECT EXISTING FURNITURE, CARPET AND FINISHES DURING THE COURSE OF CONSTRUCTION. TAKE CARE NOT TO DAMAGE EXISTING SURFACES. REPAIR TO MATCH EXISTING CONDITIONS AS REQUIRED.
30. SEAL ALL HOLES IN WALLS, CEILINGS, FLOORS, ETC. TO MATCH EXISTING ADJACENT SURFACES WHERE EQUIPMENT, CONDUIT AND/OR PIPING ARE REMOVED.
31. EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER. DISPOSE OF ALL MATERIALS AND EQUIPMENT SHOWN TO BE REMOVED IN ACCORDANCE WITH LOCAL REGULATIONS.
32. REPLACE ALL SIDEWALKS DAMAGED BY OR DURING CONSTRUCTION OF THIS PROJECT.
33. REMOVE ALL SHRUBBERY, PLANTS, ETC. WHICH INTERFERE WITH WORK UNDER THIS CONTRACT. REPLANT AND/OR REPLACE ALL PLANTS, SHRUBBERY, ETC. AT COMPLETION OF JOB. ALL DISTURBED AREAS OF SOIL SHALL BE RE-SODDED. REPLACEMENT OR REPLANTING TO BE GUARANTEED FOR ONE YEAR.
34. ITEMS REMOVED AND SAVED FOR REUSE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL IDENTIFY ANY DEFECTIVE MATERIALS PRIOR TO DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO MATERIALS AT PROJECT COMPLETION NOT IDENTIFIED PRIOR TO DEMOLITION.
35. ALARM, SUPERVISORY AND TROUBLE SIGNALS SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION, REMOTE SUPERVISING STATION OR PROPRIETARY SUPERVISING STATION AS DEFINED IN NFPA 72 OR, WHEN APPROVED BY THE BUILDING OFFICIAL, SHALL SOUND AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION. COORDINATE WITH DIVISION 15 CONTRACTOR AS REQUIRED.
36. FIRE ALARM DRAWINGS INDICATE DESIGN INTENT. ACTUAL DEVICE TYPES. QUANTITIES AND LOCATIONS SHALL BE VERIFIED BY THE FIRE ALARM CONTRACTOR TO MEET ALL APPLICABLE CODES AND STANDARDS. ANY DEVIATIONS FROM THE DRAWINGS SHALL BE INDICATED ON FIRE ALARM SHOP DRAWINGS SUBMITTED BY THE FIRE ALARM CONTRACTOR.
37. CONTRACTOR SHALL COMPLY WITH "TRENCH SAFETY ACT" (FLORIDA STATUTE 553 PART III) AND OSHA STANDARD 29 CFR 1926.650 SUBPART P FOR ALL UTILITY TRENCHES IN EXCESS OF 5 FEET DEEP. CONTRACTOR SHALL INDICATE WITHIN HIS BID RESPONSE A REFERENCE TO THE TRENCH SAFETY STANDARD AND A SEPARATE LINE ITEM COST OF COMPLIANCE WITH STANDARD.

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE

GENERAL NOTES & LEGENDS

E001

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WALL AND FLOOR BOX SCHEDULE

TYPE	DESCRIPTION	FACEPLATE COVER		GANG #1 MODULES			GANG #2 MODULES			GANG #2/3 MODULES			GANG #4 MODULES			CONDUITS				MANUFACT	MODEL	NOTES
		GANG	COLOR	QTY	TYPE	MODEL	QTY	TYPE	MODEL	QTY	TYPE	MODEL	QTY	TYPE	MODEL	QTY	SIZE	FOR	TO			
WB1	WALL BOX	2	WHITE	1	PLATE	FBMPREC	1	DATA	P26W							1	3/4"	POWER	PANEL	HUBBELL	HBL985	
				1	SPD	HBL5360SA										1	1"	DATA	ABV CLG			POWER, DATA
WB2	WALL BOX	4	WHITE	1	PLATE	FBMPREC	1	DATA	P26W	1	AV PLATE	IMF1W				1	3/4"	POWER	PANEL	WIREMOLD	EFSB4	
				1	SPD	HBL5360SA										1	1"	DATA	ABV CLG			POWER, DATA, HDMI
																1	1 1/4"	AV	MEDIA BOX			
FB1	ON GRADE, ROUND	4	BLACK	1	PLATE	FBMPREC	1	PLATE	FBMPREC	1	DATA	P26W		EMPTY		1	3/4"	POWER	PANEL	HUBBELL	CFB4G30RCR	
				1	SPD	HBL5360SA	1	SPD	HBL5360SA							1	1"	DATA	ABV CLG		CFBS1R6CVRBLK	POWER, DATA
FB2	ON GRADE, ROUND	2	BLACK	1	PLATE	FBMPREC	1	PLATE	FBMPREC							1	3/4"	POWER	PANEL	HUBBELL	CFB2G30RCR	
				1	SPD	HBL5360SA	1	SPD	HBL5360SA												CFBS1R6CVRBLK	POWER

NOTES:

1 ELECTRICAL CONTRACTOR TO PROVIDE WALL BOX, FLOOR BOX, OR POKE THROUGH UNLESS NOTED OTHERWISE. FACEPLATE SHALL MATCH MATERIAL OF OTHER WIRING DEVICES IN SPACE. PROVIDE BLANK FILLER MODULE FOR ALL UNUSED SPACES.

2 TELECOM AND AUDIO/VISUAL CONTRACTOR TO PROVIDE LOW VOLTAGE JACK AND DEVICE.

3 PROVIDE LOW VOLTAGE DIVIDER IN BOXES WITH BOTH SYSTEMS AND 120VAC WIRING.

4 PROVIDE PRE-POUR TUBE, SUPPORT BRACKETS OR OTHER NECESSARY INSTALLATION ACCESSORIES REQUIRED TO SET FLOOR BOX OR POKE THROUGH FLUSH WITH FINISHED FLOOR. PROTRUSION ABOVE FINISHED FLOOR SURFACE IS UNACCEPTABLE.

LIGHTING FIXTURE SCHEDULE

GENERAL NOTES:

1.) CONTRACTOR SHALL COORDINATE FIXTURE TYPE WITH ARCHITECTURAL FINISH SCHEDULE(S). ARCHITECT SHALL CONFIRM FINISH OF ALL FIXTURES IN GUEST/PUBLIC AREAS.

2.) LIGHT FIXTURES DEEMED EQUAL TO THOSE SPECIFIED SHALL BE SUBMITTED FOR APPROVAL IN ACCORDANCE WITH SPECIFICATIONS.

3.) PROVIDE MOUNTING TRIM REQUIRED FOR CEILING TYPE INSTALLED.

TYPE	MANUFACTURER (OR EQUAL)	CATALOG NUMBER	LAMP		LUMEN OUTPUT	CRI	COLOR TEMPERATURE	VOLTAGE	DESCRIPTION
			POWER	QTY					
A	HE WILLIAMS	AP22-L40-840-DIM-UNV	33W	LED	3935	80	4000K	120-277V	2' x 2' LED ARCHITECTURAL CURVED PANEL. DIE FORMED STEEL HOUSING, FROSTED ACRYLIC LENS, 0-10V DIMMING. INSTALL FIXTURE WITH CURVED SIDES ORIENTED AS SHOWN ON DRAWINGS FOR DESIGN CONSISTENCY.
C	LIGHTOLIER	4RN-C4L-15-940-WZ10U / C4R-DL-CD-WH	14W	LED	1000	90	4000K	120-277V	4" ROUND RECESSED DOWNLIGHT WITH WHITE COMFORT CLEAR DIFFUSE FINISH AND TRIM. WIDE DISTRIBUTION.
C2	LIGHTOLIER	7RN-C6L-15-940-W-Z10-U / C7-R-DL-CD-WH	13W	LED	1500	90	4000K	120-277V	7" ROUND RECESSED DOWNLIGHT WITH WHITE COMFORT CLEAR DIFFUSE FINISH AND TRIM. WIDE DISTRIBUTION.
E	BEGHELLI	OL2-SA-LR_-_-AT	5W	LED			RED	120-277V	EDGE LIT LED EXIT SIGN - CLEAR ACRYLIC PANEL FOR SINGLE, MIRROR FOR DOUBLE. RED LETTERS. CHEVRON ARROWS AS NEEDED. UNIVERSAL MOUNTING. BRUSHED ALUMINUM HOUSING. SELF-TESTING. SEE EDGE LIT EXIT SIGN DETAIL.
F	HE WILLIAMS	7SS-4-L50/840-DIM-UNV	33W	LED	4870	80	4000K	120-277V	4' LENSED LED STRIP FIXTURE WITH SQUARE, ACRYLIC LENS. SURFACE MOUNTED OR SUSPENDED. WHERE SUSPENDED MOUNT 10' AFF.
N	INSIGHT	PS6-HO-40K-10-TR-UNV-DIM-PA_	30W	LED	2500	80	4000K	120-277V	FLAG POLE LIGHT WITH 10 DEGREE OPTICS. PROVIDE POLE MOUNT ADAPTER. CONFIRM FLAGPOLE DIAMETER PRIOR TO ORDER.
K	HE WILLIAMS	WMAUD-3-L30/840U-L30/840D-AF-DIM-UNV	47W	LED	6200	80	4000K	120-277V	3' SURFACE MOUNTED ARCHITECTURAL UP AND DOWN LIGHT. FROSTED ACRYLIC LENS. 0-10V DIMMING.
R	HE WILLIAMS	AVX-4-L62/840-WPC-DIM-UNV	57W	LED	6250	80	4000K	120-277V	4' LED FIXTURE SURFACE MOUNTED. VANDAL RESISTANT. MARINE GRADE ALUMINUM HOUSING. DIFFUSED LENS. 0-10V DIMMING. LISTED FOR WET LOCATIONS.
V2	GARDCO	P26-64L-700-NW-G2-AR-2-UNV-BZ	133W	LED	18800	70	4000K	120-277V	LED POLE MOUNT AREA LIGHT WITH TYPE 2 DISTRIBUTION ON 25', 5" ROUND STRAIGHT, 7-GA STEEL POLE WITH SQUARE BASE COVER WITH EPA CAPACITY OF 1.5 AT 160 MPH. LISTED FOR WET LOCATIONS. FINISH: BRONZE.
V3	GARDCO	P26-64L-700-NW-G2-AR-3-UNV-BZ	133W	LED	18800	70	4000K	120-277V	LED POLE MOUNT AREA LIGHT WITH TYPE 3 DISTRIBUTION ON 25', 5" ROUND STRAIGHT, 7-GA STEEL POLE WITH SQUARE BASE COVER WITH EPA CAPACITY OF 1.5 AT 160 MPH. LISTED FOR WET LOCATIONS. FINISH: BRONZE.
W	GARDCO	PWS-C-A03-840-3-UNV-010V-BZ	34W	LED	6000	80	4000K	120-277V	EXTERIOR WALL PACK WITH COMFORT OPTICS AND TYPE 3 DISTRIBUTION. MARINE GRADE ALUMINUM HOUSING. FINISH: BRONZE
W1	WE-EF	VLS420-131-9929-M/A60	41W	LED	3150	80	4000K	120-277V	EXTERIOR WALL PACK WITH MEDIUM U THROW AND ASYMETRIC FORWARD DOWN THROW DISTRIBUTION. MARINE GRADE ALUMINUM HOUSING, LISTED FOR WET LOCATIONS. DARK BRONZE FINISH.

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Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE

SCHEDULES

E002

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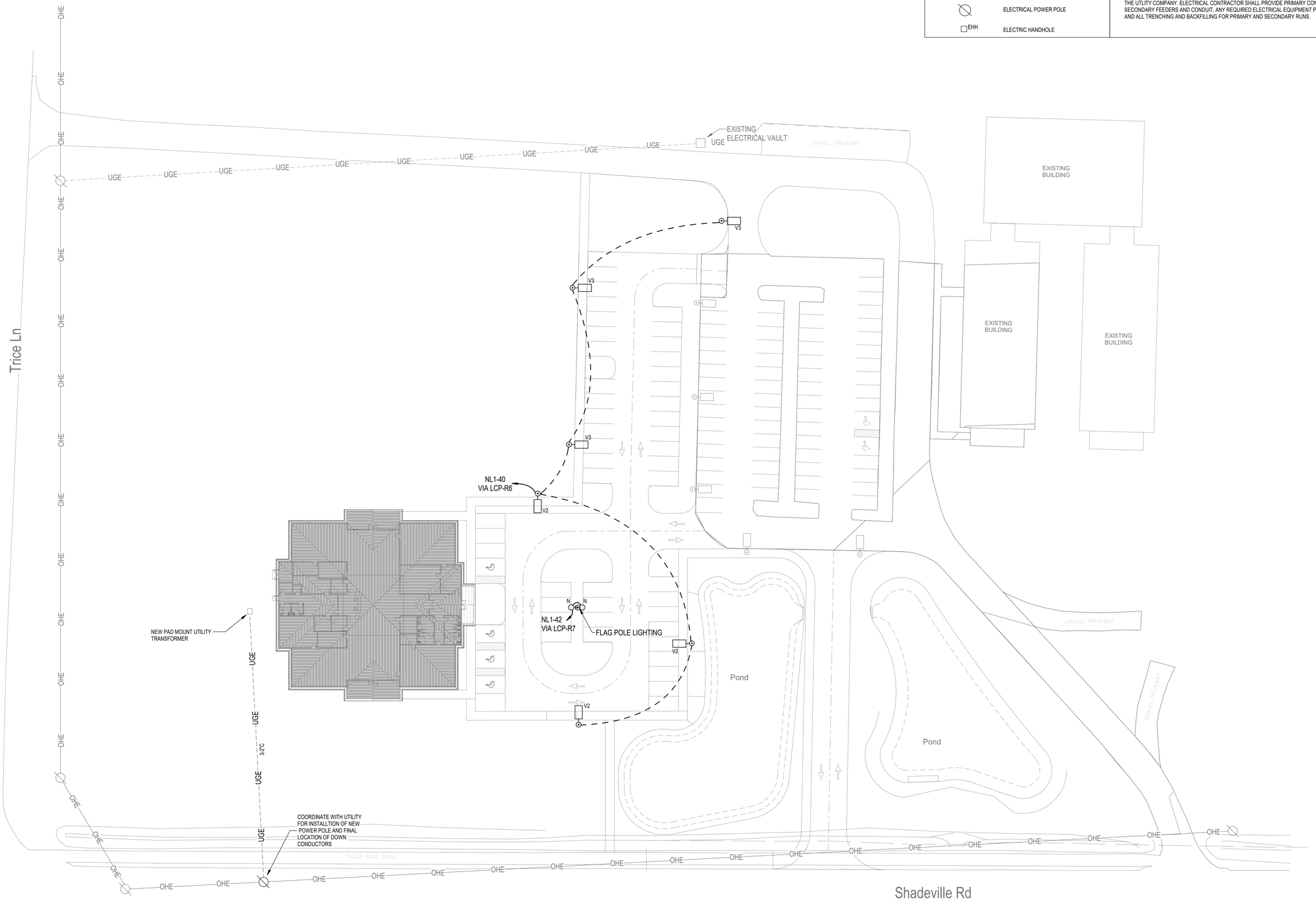
SITE LEGEND

NOTE: HATCHING SHOWS ITEMS TO BE DEMOLISHED

—OHE—	OVERHEAD ELECTRIC
- - UGE - -	UNDERGROUND ELECTRIC
	ELECTRICAL POWER POLE
EHH	ELECTRIC HANDHOLE

GENERAL NOTES

1. DEVICES SHOWN SHADED ARE EXISTING TO REMAIN. DEVICES SHOWN BOLD ARE NEW.
2. MEDIUM VOLTAGE TRANSFORMER(S) AND PRIMARY CABLING ARE TO BE PROVIDED BY THE UTILITY COMPANY. ELECTRICAL CONTRACTOR SHALL PROVIDE PRIMARY CONDUITS, SECONDARY FEEDERS AND CONDUIT, ANY REQUIRED ELECTRICAL EQUIPMENT PADS AND ALL TRENCHING AND BACKFILLING FOR PRIMARY AND SECONDARY RUNS.



SITE PLAN - ELECTRICAL

Scale: 1" = 30'-0"

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Revision

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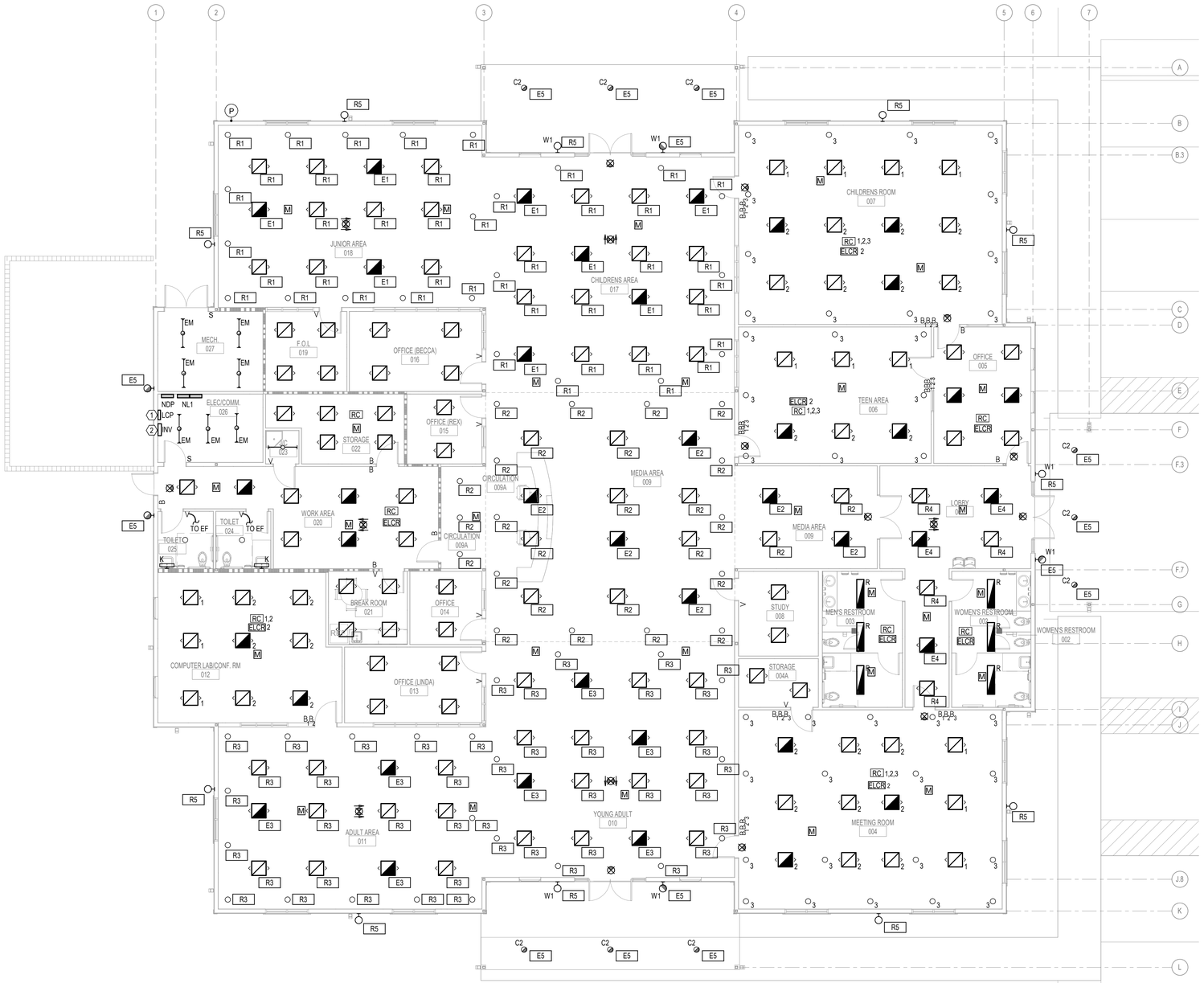
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SITE PLAN

E100

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FLOOR PLAN - LIGHTING

Scale: 1/8" = 1'-0"

GENERAL NOTES

1. ALL 2X2 FIXTURES SHALL BE TYPE 'A' U.N.O.
2. ALL CAN DOWNLIGHT FIXTURES SHALL BE TYPE 'C' U.N.O.
3. ALL 4 FOOT STRIP FIXTURES SHALL BE TYPE 'F' U.N.O.
4. ALL EXIT SIGNS SHALL BE TYPE 'E' U.N.O.
5. EXTERIOR WALL PACK FIXTURES SHALL BE TYPE 'W' U.NO. MOUNT AT 10'-6" AFF U.N.O.
6. ARROWS DEPICTED ON EACH SIDE OF 2X2 FIXTURES INDICATE LOCATION OF CURVED EDGES. FIXTURES SHALL BE INSTALLED WITH CURVED SIDES ORIENTED AS SHOWN FOR CONSISTENT DESIGN INTENT THROUGHOUT THE BUILDING.
7. CONNECT ALL NEW EXITS SIGN FIXTURE TO NEAREST UNSWITCHED LIGHTING CIRCUIT.
8. AT EXTERIOR LOCATIONS AND IN SPACES WITH EXPOSED STRUCTURE, EXPOSED RACEWAYS (INCLUDING CONDUIT, TRAY, JUNCTION BOXES, PULL BOXES, ETC.) SHALL BE INSTALLED NEATLY, BUNDLED TOGETHER TO EXTENT POSSIBLE AND RUN AT RIGHT ANGLES TO BUILDING LINES. THESE RACEWAYS SHALL BE PAINTED TO MATCH ADJACENT SURFACE OR AS DIRECTED BY ARCHITECT. HANGERS, STEEL SHAPES AND SLOTTED STEEL SUPPORTS SHALL BE PAINTED TO MATCH RACEWAY OR AS DIRECTED BY ARCHITECT. TO EXTENT POSSIBLE, CONTRACTOR SHALL AVOID EXPOSED RACEWAY BY INSTALLING CONDUIT BELOW GRADE, IN WALL, OR ABOVE ADJACENT CONCEALED CEILING SPACES.
9. EMERGENCY LIGHTING CIRCUITS SHALL BE CIRCUITED FROM EMERGENCY INVERTER 'INV' PANEL UNLESS NOTED OTHERWISE. ALL OTHER LIGHTING CIRCUITS SHALL BE CIRCUITED FROM PANEL 'NL1', UNLESS NOTED OTHERWISE. SEE PANELBOARD SCHEDULE FOR AVAILABLE CIRCUITS. BALANCE LOAD TO EXTENT PRACTICAL BY CIRCUITING APPROXIMATELY SAME NUMBER OF FIXTURES ON EACH AVAILABLE CIRCUIT INDICATED IN PANEL SCHEDULE.
10. FOR FIXTURES INDICATED TO BE CONTROLLED BY LIGHTNG CONTROL PANEL RELAY OR DIMMING MODULE, SEE LIGHTING CONTROL PANEL SCHEDULES FOR CIRCUITING.
11. WHERE TWO OR MORE ZONES ARE SHOWN, ZONE 1 SHALL BE AUTO ON/OFF AND SUBSEQUENT ZONES SHALL BE MANUAL ON / AUTO OFF, U.N.O. SENSORS SHALL CONTROL ALL ZONES WITHIN THE SAME ROOM, U.N.O.
12. LOCATION OF PULL BOXES AND CONTROLLERS (RC, ELCR, ETC.) ON PLANS ARE DIAGRAMMATIC AND SHOWN FOR CLARITY. COORDINATE EXPOSED LOCATIONS WITH THE ARCHITECT, GENERALLY, LAYOUT SHALL BE NEAT, ORGANIZED, AND IN LINE WITH EXPOSED RACEWAYS AND BUILDING LINES. IN ROOMS/AREAS WITH INACCESSIBLE CEILINGS LOCATE DEVICES IN ADJACENT ACCESSIBLE SPACE OR PROVIDE CEILING ACCESS PANEL: COORDINATE LOCATION OF ACCESS PANEL WITH ARCHITECT.
13. THE LOCATION OF CEILING AND WALL MOUNT DEVICES IS DIAGRAMMATIC AND SHOWN FOR CLARITY. REFER TO THE ARCHITECTURAL RCP PLAN FOR THE EXACT LOCATION OF ALL CEILING MOUNT DEVICES. WHERE NOT INDICATED ON THE ARCHITECT'S RCP PLAN COORDINATE WITH THE ARCHITECT PRIOR TO INSTALLATION. COORDINATE WITH THE ARCHITECT FOR THE FINAL LOCATION OF ALL EXTERIOR AND INTERIOR WALL MOUNT DEVICES. DEVICES SHALL BE INSTALLED IN THE CENTER OF CEILING TILES WHERE ACOUSTICAL CEILING SYSTEMS ARE SPECIFIED AND, AS A GENERAL RULE, ON THE SAME CENTERLINES WITH OTHER ADJACENT CEILING-MOUNTED DEVICES REGARDLESS OF CEILING TYPE. CONTACT THE ARCHITECT/ENGINEER FOR DIRECTIONS PRIOR TO INSTALLATION SHOULD THE LOCATION OF A SPECIFIED DEVICE NOT BE CLEARLY INDICATED.
14. PROVIDE UNSWITCHED EMERGENCY LIGHTING CIRCUITS TO EXIT SIGNS AND EMERGENCY FIXTURES WITH EMERGENCY BATTERY PACKS. AN UNSWITCHED LEG MAY RUN IN THE SAME CONDUIT AS SWITCHED EMERGENCY CIRCUIT.
15. UTP WIRING FOR DIGITAL LIGHTING CONTROLS SHALL BE BUNDLED AND TRAINED TOGETHER AND RUN SEPARATELY FROM OTHER SYSTEMS OR POWER WIRING. PROVIDE A 12" SERVICE LOOP AT THE PANEL OR CONTROLLER AND AT EACH END DEVICE. PROVIDE J-HOOK OPEN PATHWAY SUPPORTED FROM STRUCTURE AND INSTALLED ON MAXIMUM 4'-0" CENTERS ABOVE ACCESSIBLE CEILINGS; PROVIDE MINIMUM 1/2" METAL CONDUIT WHERE INACCESSIBLE. TERMINATE CONDUITS WITH BUSHINGS WHERE TRANSITIONING TO OPEN PATHWAY. DO NOT SUPPORT CABLING FROM OTHER TRADES OR LAY ACROSS CEILING.
16. PROVIDE SELF-ADHESIVE, 1/2" ROUND, PAPER LABELS ON CEILING GRID AT EACH ROOM LIGHTING CONTROLLER AND EMERGENCY RELAY LOCATED ABOVE CEILING FOR IDENTIFICATION BY MAINTENANCE PERSONNEL.

KEYNOTES

(1) LIGHTING CONTROL PANEL - SEE DETAIL B/E502. MOUNT ELCRS ADJACENT TO LCP IN A NEAT AND ORDERLY FASHION. THERE SHALL BE AN ELCR CORRESPONDING TO EACH RELAY INDICATED IN ELCR SCHEDULE. CLEARLY LABEL DEVICE ELCR#-RS WHERE # CORRESPONDS TO THE LCP NUMBER AND $ CORRESPONDS WITH THE CONTROLLING RELAY

(2) 2.8 KVA WALL MOUNT EMERGENCY LIGHTING INVERTER WITH 6-16 AMP INTEGRAL OUTPUT CIRCUIT BREAKERS AND INTERNAL MAINTENANCE BYPASS. LVS# CEPS-1-EM-4-S-BA1606-M(BBM)-2YW OR APPROVED EQUAL

LIGHTING CONTROL PANEL: LCP

CONTROL TYPE: DIMMING | NUMBER OF RELAYS: 8 | VOLTAGE: 120V | MOUNTING: SURFACE

PANEL NOTES:
1. PROVIDE LIGHTING MANAGEMENT CONTROL PANEL WITH INTERNAL SCHEDULER. WATTSTOPPER LMCPX-10V OR EQUAL

RELAY	SERVING	LIGHTING CONTROL ZONE #	PANEL FEED	CONTROL PROGRAM	NOTES
1	CHILDRENS AREA 017	R1	NL1	C	
2	MEDIA AREA 009	R2	NL1	C	
3	ADULT AREA 010,011	R3	NL1	C	
4	LOBBY 001	R4	NL1	A	
5	EXTERIOR BLDG LIGHTS	R5	NL1	E	
6	PARKING LOT LIGHTING	R6	NL1	E	
7	FLAG POLE LIGHTING	R7	NL1	E	
8	MECHANICAL EQUIP	R8	NL1		REFER TO MECHANICAL DETAIL ON SHEET H/M501.

CONTROL PROGRAM DESCRIPTIONS:

A SCHEDULE ON/OFF DURING OCCUPIED HOURS / OCCUPANCY SENSOR OVERRIDE (15 MINUTES) DURING UNOCCUPIED HOURS.

B OCCUPIED HOURS: TURN ON TO 20% AT START OF OCCUPIED SCHEDULE. TURN TO 100% WHEN OCCUPANCY SENSED WITHIN ZONE; DIM TO 50%, 20 MINUTES AFTER NO OCCUPANCY SENSED, SHUT OFF AT END OF OCCUPIED SCHEDULE. OCCUPIED HOURS: TURN TO 100% WHEN OCCUPANCY SENSED WITHIN ZONE: TURN OFF 20 MINUTES AFTER NO OCCUPANCY SENSED.

C OCCUPIED HOURS: TURN ON TO 50% AT START OF OCCUPIED SCHEDULE. TURN TO 100% WHEN OCCUPANCY SENSED WITHIN ZONE: DIM TO 50%, 20 MINUTES AFTER NO OCCUPANCY SENSED, SHUT OFF AT END OF OCCUPIED SCHEDULE. UNOCCUPIED HOURS: TURN TO 100% WHEN OCCUPANCY SENSED WITHIN ZONE: TURN OFF 20 MINUTES AFTER NO OCCUPANCY SENSED.

D OCCUPIED HOURS: MANUAL ON/OFF WITH DIMMING LOCAL CONTROL. UNOCCUPIED HOURS: AUTO OFF WITH BLINK WARNING AT START OF UNOCCUPIED HOURS OR 2-HOURS AFTER MANUAL OVERRIDE DURING UNOCCUPIED HOURS.

E OUTSIDE LIGHTING PHOTOCELL ON/OFF

EMERGENCY LIGHTING CONTROL RELAY: ELCR

CONTROL TYPE: MATCH CONTROLLING RELAY | VOLTAGE: 120V | MOUNTING: SURFACE

PANEL NOTES:
1. ELCR'S IN THIS SCHEDULE ASSOCIATED WITH LIGHTING CONTROL PANEL.

RELAY	SERVING	LIGHTING CONTROL ZONE #	PANEL FEED	CONTROL WITH ZONE #	NOTES
1	CHILDRENS AREA 017	E1	INV	R1	
2	MEDIA AREA 009	E2	INV	R2	
3	ADULT AREA 010,011	E3	INV	R3	
4	LOBBY 001	E4	INV	R4	
5	EXTERIOR BLDG LIGHTS	E5	INV	R5	
6	PARKING LOT LIGHTING	E6	INV	R6	
7	FLAG POLE LIGHTING	E7	INV	R7	

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Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

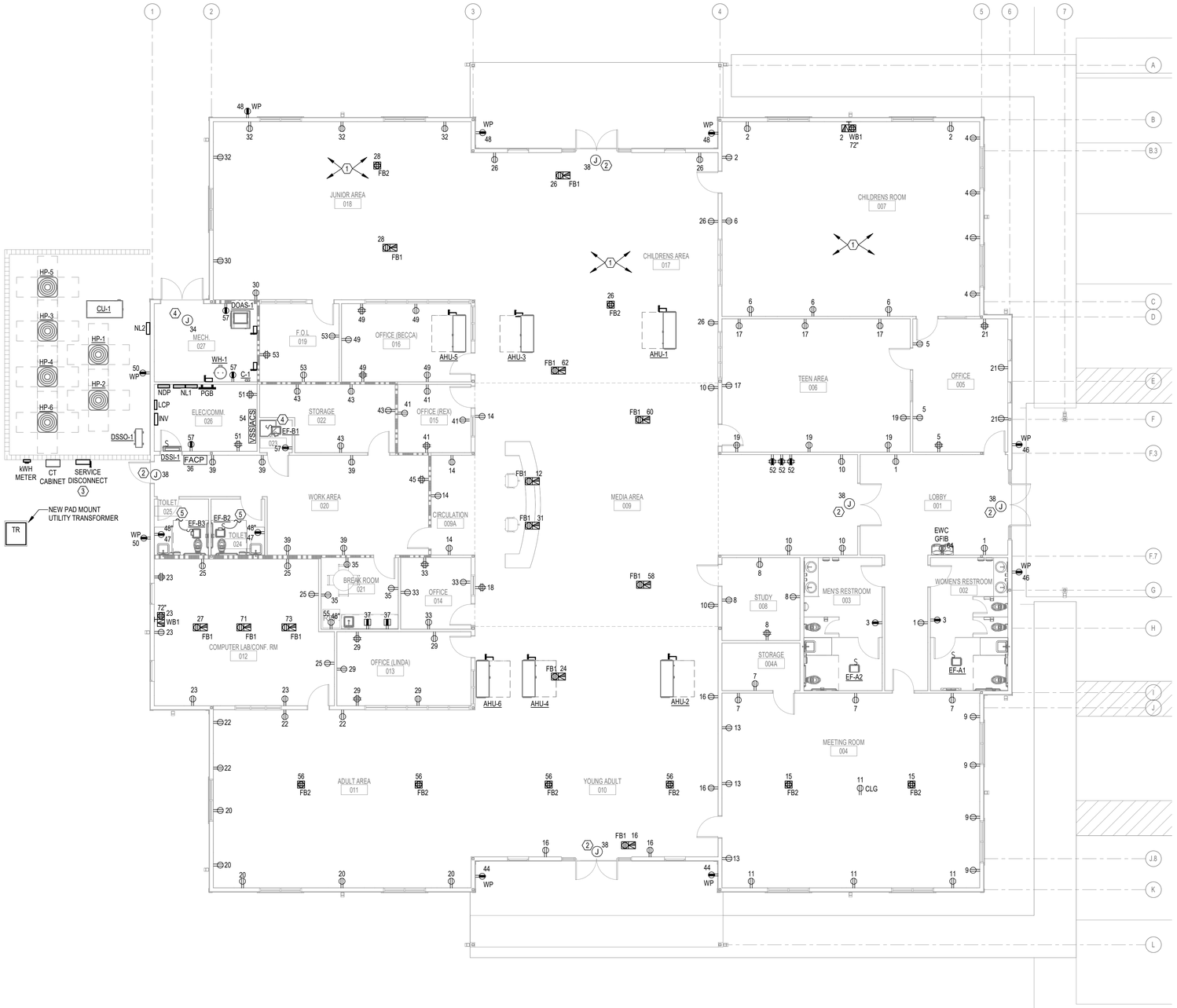
CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
FLOOR PLAN - LIGHTING

E111

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FLOOR PLAN - POWER

Scale: 1/8" = 1'-0"

POWER PLAN NOTES

1. DEVICES SHALL BE POWERED FROM PANEL 'NDP', UNO. DEVICES ARE LABELED WITH CIRCUIT NUMBER CORRESPONDING TO DESIGNATED PANEL.
2. LOCATIONS OF FLOOR BOXES AND POKE THROUGH DEVICES ARE DIAGRAMMATIC AND SHOWN FOR CLARITY COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
3. BACK BOXES AND CONDUIT TO ALL WALL MOUNT DEVICES SHALL BE CONCEALED IN WALL, EXCEPT IN ELECTRICAL, TELECOM, AV AND MECHANICAL ROOMS. COORDINATE EXACT LOCATION OF DEVICES WITH ARCHITECT.
4. ELECTRICAL CONTRACTOR SHALL REFERENCE TELECOMMUNICATIONS DRAWINGS, ACCESS CONTROL DRAWINGS AND SURVEILLANCE DRAWINGS FOR SCOPE OF WORK THAT EC IS RESPONSIBLE FOR ASSOCIATED WITH THOSE SYSTEMS.
5. LOCATION OF CEILING MOUNT AND WALL MOUNT DEVICES IS DIAGRAMMATIC AND SHOWN FOR CLARITY. REFER TO ARCHITECTURAL RCP PLAN FOR EXACT LOCATION OF ALL CEILING MOUNT DEVICES. WHERE NOT INDICATED ON ARCHITECTS RCP PLAN COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE WITH ARCHITECT FOR FINAL LOCATION OF ALL EXTERIOR AND INTERIOR WALL MOUNT DEVICES.
6. MECHANICAL EQUIPMENT DISCONNECTS SHOWN ON PLANS ARE DIAGRAMMATIC AND SHOWN FOR CLARITY. LOCATE DISCONNECTS SO ACCESSIBLE WITH WORKING CLEARANCE PER NEC.
7. REFER TO MECHANICAL SCHEDULE ON SHEET E401 FOR EQUIPMENT CIRCUIT AND DISCONNECT SWITCH INFORMATION.

KEYNOTES

1. RECEPTACLES IN THIS SPACE SHALL BE TAMPER PROOF.
2. POWER CONNECTION AND ROUGH-IN FOR ACCESS CONTROL SYSTEM AND POWER SUPPLY, REFER TO TECHNOLOGY PLANS FOR REQUIREMENTS AND DETAILS.
3. 600A, FUSED, NEMA 3R, LOCKABLE, SERVICE DISCONNECT. PROVIDE ENGRAVED PLACCARD READING "WAKULLA COUNTY LIBRAY MAIN SERVICE DISCONNECT".
4. REFER TO MECHANICAL DETAIL ON SHEET H/M501 FOR EQUIPMENT INFORMATION.
5. CONTROL EXHAUST FANS WITH LIGHTS.

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CRA Project # 24071

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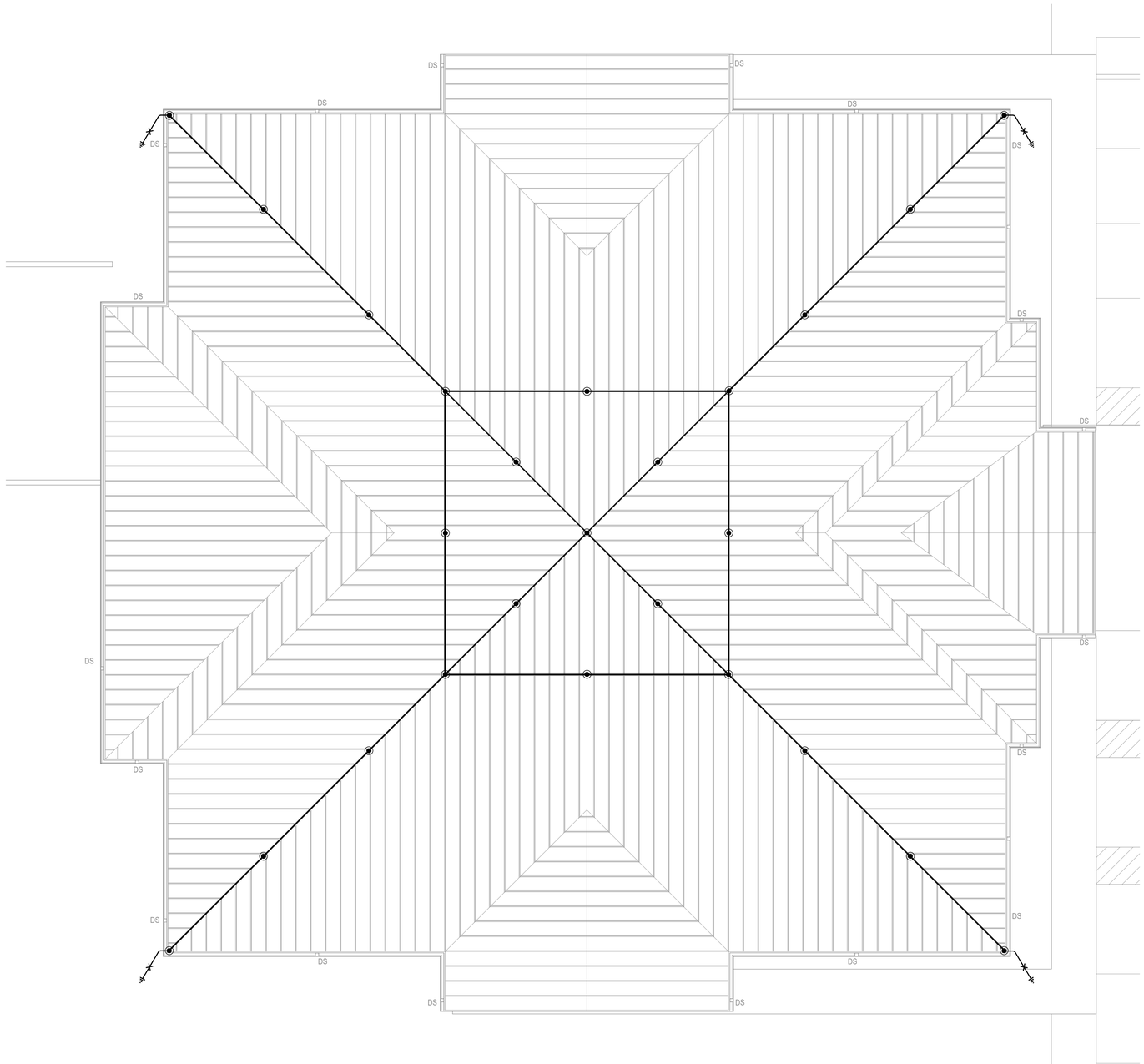
SHEET TITLE

FLOOR PLAN - POWER

E121

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FLOORPLAN - LIGHTNING PROTECTION

Scale: 1/8" = 1'-0"

LIGHTNING PROTECTION NOTES

1. THIS ROOF PLAN AND EQUIPMENT IS SHOWN FOR REFERENCE ONLY.
2. THE LIGHTNING PROTECTION SYSTEM (LPS) FOR THIS PROJECT IS BY PERFORMANCE SPECIFICATION. THE LPS SHALL COMPLY WITH NFPA 780 FOR LIGHTNING - STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS, AND WITH UL 96A - INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS. INSTALLING CONTRACTOR SHALL PROVIDE A UL MASTER LABEL OR LPI MASTER CERTIFICATE.
3. CONDUCTORS WILL BE BARE STRANDED COPPER, EXCEPT ALUMINUM WILL BE USED WHERE INSTALLATION IS IN CONTACT WITH ALUMINUM SURFACES.
4. GROUND RODS WILL BE COPPER-CLAD STEEL, 3/4" DIAMETER BY 10 FT LONG.
5. THE LPS SYSTEM AND DESIGN SHALL ENCOMPASS ALL EXTERIOR SURFACES OF THE FACILITY, INCLUDING EQUIPMENT AND SUPPORTS THAT EXTEND ABOVE TOP OF ROOF, UNDER A COMPLETE ZONE OF PROTECTION AS DEFINED BY NFPA 780. AIR TERMINAL SPACING SHALL NOT EXCEED 20 FT, EXCEPT SPACING UP TO 50 FT IS ALLOWED FOR NON- PERIMETER AREAS OF FLAT ROOFS. LOCATIONS WILL COMPLY WITH NFPA 780 AND WILL GENERALLY FOLLOW THE BUILDING ROOF RIDGES AND PERIMETERS.
6. ONE (1) DOWN CONDUCTOR SHALL BE PROVIDED FOR EVERY 100 LINEAR FEET OF BUILDING PERIMETER OR FRACTION THEREOF, WITH A MINIMUM OF TWO (2) CONDUCTORS. CONDUCTORS SHALL BE CONFIGURED TO PROVIDE A TWO-WAY PATH TO EARTH. METAL BODIES WILL BE BONDED TO THE CONDUCTOR SYSTEM IN COMPLIANCE WITH NFPA 780.
7. A GROUND ROD SHALL BE CONNECTED TO EACH DOWN CONDUCTOR. THE ELECTRIC POWER SERVICE GROUNDING SYSTEM SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM.
8. REFER TO SPECIFICATION SECTION 26 4113 FOR MORE SCOPE.
9. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR INFORMATION RELATED TO BUILDING AND STRUCTURES TO BE PROTECTED.
10. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR INFORMATION REGARDING EQUIPMENT AND ASSOCIATED ITEMS.

LIGHTNING PROTECTION SYSTEM LEGEND

- AIR TERMINAL AS REQUIRED. REFER TO DETAILS ON E5.2.
- CONDUCTOR TO GRD. ROD EXOTHERMIC CONNECTION. (USE 3/4" X 10' ROD DRIVEN TO 11 FT. DEEP MINIMUM.)
- HORIZONTAL OR DOWNWARD CONDUCTOR ROUTED ALONG THE TOP OR EXTERIOR SIDE OF THE ROOF.

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Revision

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CRA Project # 24071

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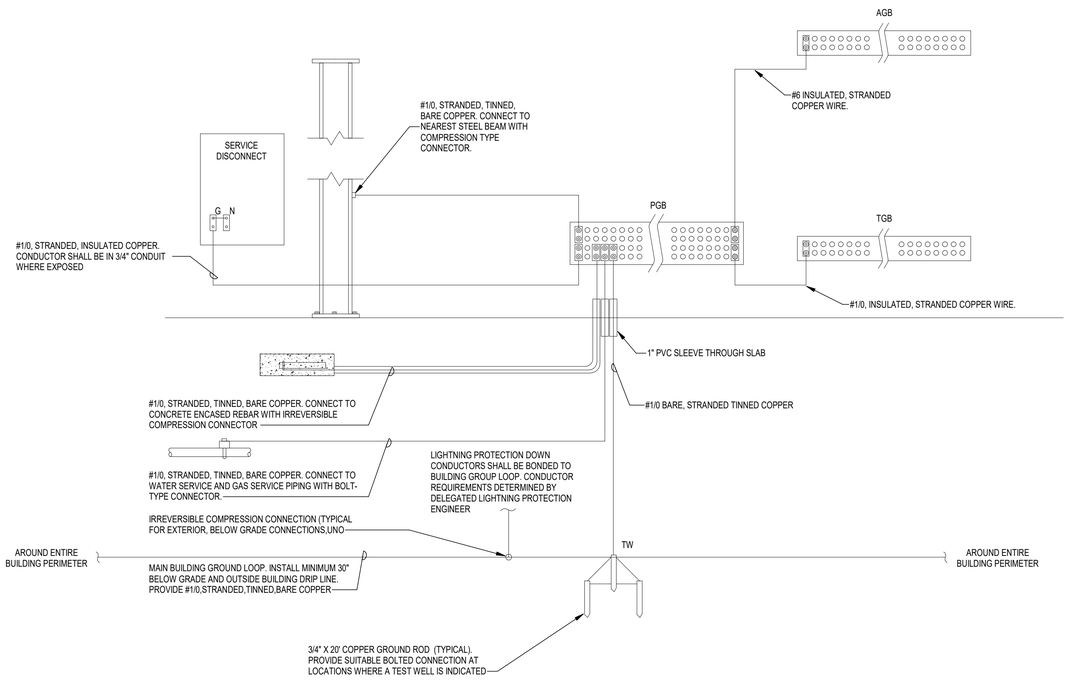
SHEET TITLE

FLOOR PLAN - LIGHTNING PROTECTION

E131

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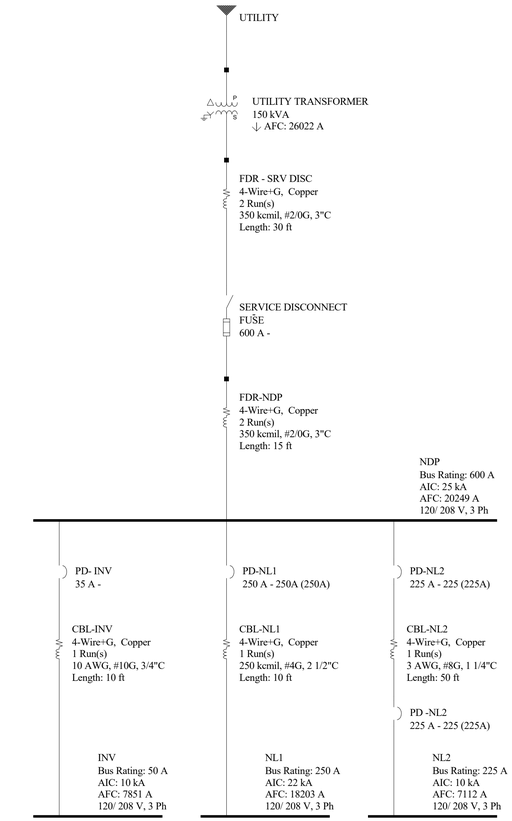


2 RISER DIAGRAM - GROUNDING

SCALE: N.T.S

GROUND RISER NOTES:

1. ALL CONDUCTORS SHALL BE RUN IN A DIRECT PATH TO THE EXTENT POSSIBLE.
2. THE MINIMUM BEND ANGLE FOR ANY GROUNDING CONDUCTOR SHALL BE 90 DEGREES.
3. THE MINIMUM BEND RADIUS FOR ANY GROUNDING CONDUCTOR SHALL BE 8".
4. PROVIDE PVC SLEEVES FOR ALL WALL, FLOOR, CEILING, SLAB, ETC. PENETRATIONS. IF METAL SLEEVES ARE USED, PROVIDE GROUND BUSHINGS AND BOND CONDUTOR TO BUSHING AT EACH LOCATION PROVIDED.
5. ALL GROUND CONDUCTORS SHALL BE FREE OF SPLICES.
6. CLEAN ALL SURFACES BEFORE MAKING CONNECTIONS. TAKE ALL STEPS POSSIBLE TO ENSURE LOW CONTACT RESISTANCE AT TERMINATION LOCATIONS.



1 RISER DIAGRAM - ELECTRICAL

SCALE: NONE

GENERAL NOTES

1. SHORT CIRCUIT CALCULATIONS PERFORMED ON 07-21-2025 BASED ON ASSUMED INFORMATION FOR A 150kVA PAD MOUNT TRANSFORMER WITH A %Z OF 1.4.
2. PROVIDE ARCH FLASH WARNING LABELS ON NEW ELECTRICAL EQUIPMENT AS REQUIRED BY NEC 2020 110.16. CONTACT ENGINEER FOR ELECTRONIC COPY OF LABELS

WIRING LENGTHS SHOWN ON 1-LINE DIAGRAM ARE FOR CALCULATION PURPOSES AND NOT INTENDED FOR MATERIAL TAKE-OFFS. CONTRACTOR SHALL USE SCALED PLANS FOR ACTUAL LENGTHS.

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CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE

RISER DIAGRAM

E301

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MECHANICAL EQUIPMENT SCHEDULE

DESIGNATION	LOCATION	ELECTRICAL VOLTAGE	HP	FLA	MCA	BRANCH CIRCUIT OCPD	BRANCH CIRCUIT PANEL	DISCONNECT / STARTER STARTER SIZE	STARTER TYPE	COIL VOLTAGE	SOLID STATE OVERLOAD	HOA SELECTOR RED/ RUN LIGHT	DISCONNECT	AMP RATING	POLES	OCPD	OCPD RATING	NEMA ENCLOSURE	BY OTHERS	NOTES
AHU-1	CHILDREN AREA	208V / 1PH	3/4	34	43	45	NDP							60	2	NONE		TYPE 1		
AHU-2	YOUNG ADULT	208V / 1PH	3/4	34	43	45	NDP							60	2	NONE		TYPE 1		
AHU-3	CHILDREN AREA	208V / 1PH	3/4	40	51	60	NDP							60	2	NONE		TYPE 1		
AHU-4	YOUNG ADULT	208V / 1PH	3/4	40	51	60	NDP							60	2	NONE		TYPE 1		
AHU-5	OFFICE 016	208V / 1PH	3/4	26	33	35	NDP							60	2	NONE		TYPE 1		
AHU-6	OFFICE 013	208V / 1PH	3/4	22	27	30	NDP							30	2	NONE		TYPE 1		
HP-1	MECH YARD	208V / 1PH		17	22	35	NL2													BREAKER IS DISCONNECT
HP-2	MECH YARD	208V / 1PH		17	22	35	NL2													BREAKER IS DISCONNECT
HP-3	MECH YARD	208V / 1PH		20	26	40	NL2													BREAKER IS DISCONNECT
HP-4	MECH YARD	208V / 1PH		20	26	40	NL2													BREAKER IS DISCONNECT
HP-5	MECH YARD	208V / 1PH		14	17	25	NL2													BREAKER IS DISCONNECT
HP-6	MECH YARD	208V / 1PH		9	11	15	NL2													BREAKER IS DISCONNECT
DOAS-1	MECH ROOM	208V / 3PH	2	49	61	70	NDP							100	3	NONE		TYPE 1		
CU-1	MECH YARD	208V / 3PH	2	26	32	50	NL2													BREAKER IS DISCONNECT
EF-A1	RESTROOM 002	120V / 1PH	20	2	2	15	NDP							30	1	NONE		TYPE 1		
EF-A2	RESTROOM 003	120V / 1PH	20	2	2	15	NDP							30	1	NONE		TYPE 1		
EF-B1	J/C 023	120V / 1PH	14	0.2	0.2	15	NDP							30	1	NONE		TYPE 1		
EF-B2	TOILET 024	120V / 1PH	14	0.2	0.2	15	NDP							30	1	NONE		TYPE 1		
EF-B3	TOILET 025	120V / 1PH	14	0.2	0.2	15	NDP							30	1	NONE		TYPE 1		
DSSI/DSSO-1	MECH YARD	208V / 1PH		13	16	20	NL2													BREAKER IS DISCONNECT
C-1	MECH ROOM	120V / 1PH	1/8	2	2	15	NDP							30	1	NONE		TYPE 1		
WH-1	MECH ROOM	208V / 1PH		30	37	40	NDP							60	2	NONE		TYPE 1		

NOTES:

1 REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.

2 REFER TO INDICATED PANEL SCHEDULE FOR CIRCUIT NUMBER AND INFORMATION.

DISTRIBUTION PANEL: NDP

600 AMP RATING
208 /120 V, 3 PH, 4W
25 kA AIR
SURFACE

NEMA: X TYPE 1 | TYPE 3R | TYPE 4X | TYPE 12

ALUMINUM BUSES | X COPPER BUSES | X 100% RATED BUS | SERVICE ENTRANCE RATED

DOUBLE LUGS | FEED THROUGH LUGS | PANEL MOUNTED POWER METER

X BOLT-ON BREAKERS | PLUG-ON BREAKERS

REQUIRED OCPD SPACE (INCHES) 45

CIRCUIT	LOAD TYPE	SERVING	SPACE (INCHES)	OVERCURRENT PROTECTION DEVICE TRIP (AMPS)	FRAME	POLE	TRIP FUNCTION	EPECIAL FUNCTION	100% RATED	GFEP	ERMS	COMM.	CIRCUIT WIRING SEE 1-LINE	RUNS	PHASE SIZE	NEUTRAL SIZE	GROUND	CONDUIT SIZE	CONNECTED LOAD (KVA) A	B	C	COMMENTS
1		PANEL NL1	4.5	200	250	3	LI						X						20			
																				17		
																					15	
2	H	AHU-1	4.5	45	125	2	TM							1	#6		#8	3/4"	4			
	H																			4		
3	H	AHU-2	4.5	45	125	2	TM							1	#6		#8	3/4"			4	
	H																		4			
4	H	AHU-3	4.5	60	125	2	TM							1	#4		#8	1"		4		
	H																				4	
5	H	AHU-4	4.5	60	125	2	TM							1	#4		#8	1"	4			
	H																			4		
6	H	AHU-5	4.5	35	125	2	TM							1	#8		#8	3/4"			3	
	H																		3			
7	H	AHU-6	4.5	30	125	2	TM							1	#10		#8	3/4"		2		
	H																				2	
8	H	DOAS-1	4.5	70	125	3	TM							1	#4		#8	1 1/4"	6			
	H																			6		
																					6	
9		PANEL NL2	4.5	150	200	3	LI						X						12			
																				11		
																					9	
10	M	EF-A1	4.5	15	125	1	TM							1	#12	#12	#10	3/4"	0.2			
11	M	EF-A2	4.5	15	125	1	TM							1	#12	#12	#10	3/4"		0.2		
12	M	EF-B1	4.5	15	125	1	TM							1	#12	#12	#12	3/4"			0.02	
13	M	EF-B2	4.5	15	125	1	TM							1	#12	#12	#12	3/4"	0.02			
14	M	EF-B3	4.5	15	125	1	TM							1	#12	#12	#10	3/4"		0.02		
15	O	C-1	4.5	15	125	1	TM							1	#12	#12	#12	3/4"			0.2	
16	O	WH-1	4.5	40	125	2	TM							1	#8		#10	3/4"	3			
	O																			3		
17		PANEL INV	4.5	35	125	1	TM						X								2	
		MAIN																				
		MAIN LUG ONLY																				

	LOAD CLASSIFICATION		DEMAND	KVA (THIS PANEL) A	B	C	KVA (SUB-PANELS) A	B	C	KVA CONNECTED A	B	C	KVA DEMAND A	B	C
M	MOTOR		100%	0	0	0	0	0	0	0	0	0	0	0	0
K	KITCHEN	APPLIANCE #	100%	0	0	0	0	0	0	0	0	0	0	0	0
R	RECEPTACLES		10KVA+50%	0	0	0	16	13	11	16	13	11	10	8	7
L	LIGHTING		100%	0	0	0	4	5	3	4	5	3	4	5	3
H	HVAC		100%	20	20	19	12	11	9	31	31	28	31	31	28
N	N+1 REDUNDANT LOAD		50%	0	0	0	0	0	0	0	0	0	0	0	0
E	ELECTRIC VEHICLE CHARGER	KVA LIMIT	100%	0	0	0	0	0	0	0	0	0	0	0	0
O	OTHER		100%	3	3	0	1	1	1	4	4	1	4	4	1
	TOTAL LOAD (KVA)			23	23	19	33	30	24	56	53	43	49	49	39
	TOTAL LOAD (AMPS)			193	195	157	271	250	200	464	445	357	412	404	327

CONNECTED (AMPS) 422
CONNECTED (KVA) 152
DEMAND (AMPS) 381
DEMAND (KVA) 137
SPARE 20%
RATING 125%
BASIS FOR RATING (AMPS) 571

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CRA ARCHITECTS

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Interior Designers
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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE

PANEL SCHEDULES

E401

Autodesk Docs://24-092 Wakulla County Library/24-092 MEPCentral_Wakulla County Library_R25.rvt

7/21/2025 6:13:59 PM

LIGHTING AND APPLIANCE PANEL: INV — PANEL IS INTEGRAL TO INVERTER UNIT

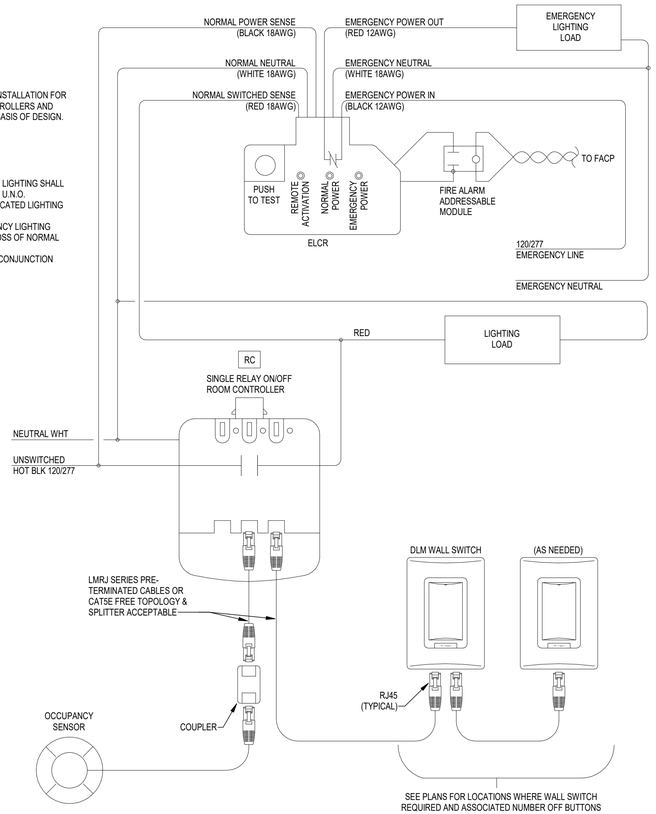
| | | |

GENERAL NOTE:

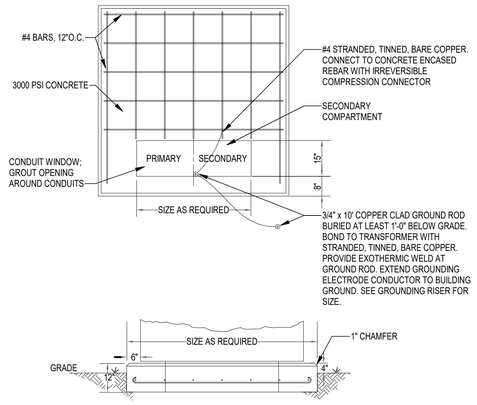
WIRING DIAGRAM SHOWS TYPICAL INSTALLATION FOR NETWORKED (WIRED) DIGITAL CONTROLLERS AND SENSORS WITH WATTSTOPPER AS BASIS OF DESIGN.

SEQUENCE OF OPERATION:

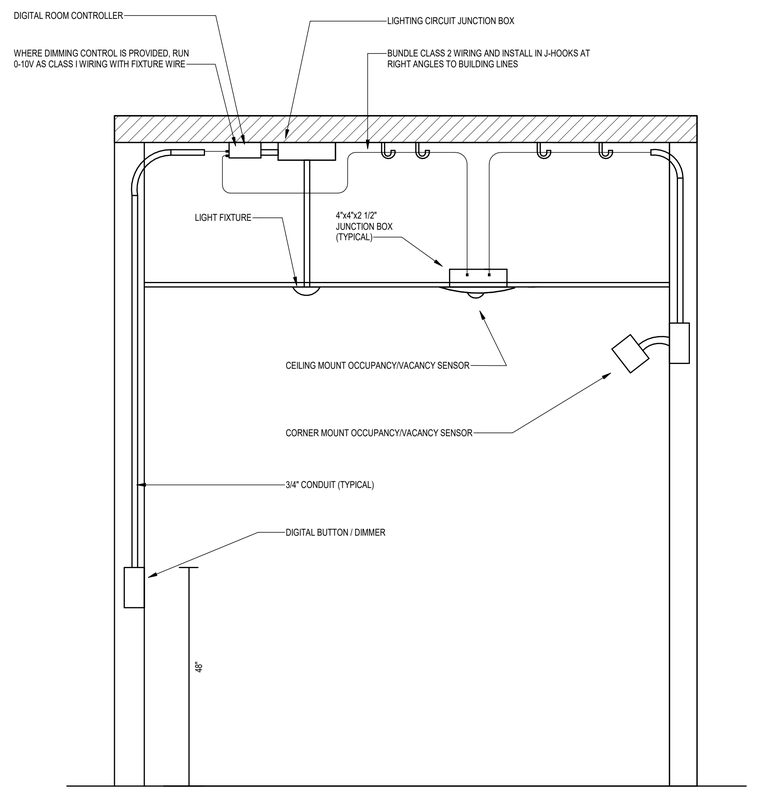
1. WHERE WALL SWITCH PRESENT, LIGHTING SHALL BE MANUAL ON/ AUTOMATIC OFF U.N.O.
2. WHERE NO WALL SWITCH IS INDICATED LIGHTING SHALL BE AUTOMATIC ON/OFF
3. ELCR SHALL ACTIVATE EMERGENCY LIGHTING UPON FIRE ALARM SIGNAL OR LOSS OF NORMAL POWER
4. ELCR SHALL ACTIVATE LIGHT IN CONJUNCTION WITH SENSED SWITCHLEG



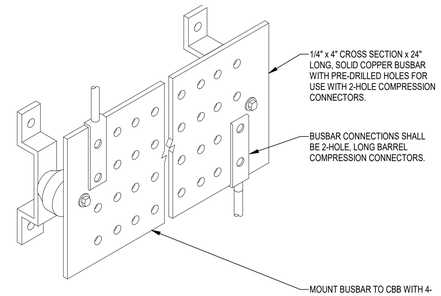
G DIGITAL ROOM ON/OFF CONTROLLER WIRING DIAGRAM — N.T.S.



E TRANSFORMER PAD DETAIL — N.T.S.



F TYPICAL LIGHTING ROOM CONTROL - CONCEALED CONDITION — N.T.S.

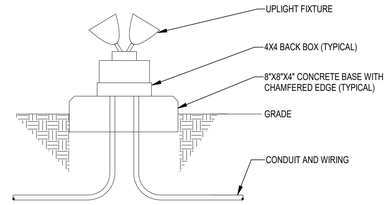


NOTES:

1. LENGTH INDICATED IS MINIMUM; PROVIDE SUFFICIENT LENGTH FOR ALL INDICATED TERMINIATIONS PLUS 20% SPARE MOUNTING SPACE.

IE G16

A PRIMARY BONDING BUSBAR (PGB) — N.T.S.



B GROUND MOUNT FIXTURE BASE DETAIL — N.T.S.

WARNING

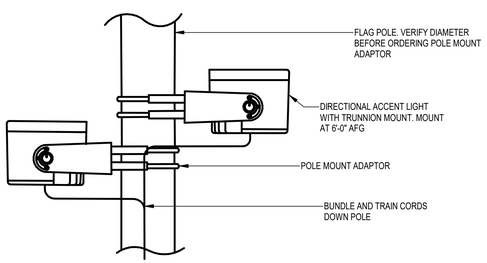
Arc Flash and Shock Risk

Appropriate PPE Required

Arc Flash Protection		Required PPE	
5 in	Arc Flash Boundary	**Level 4**	Minimum Arc Rating: **40 cal/cm^2**
0.16 cal/cm^2	Incident Energy at **18 in**	Clothing: Arc-rated shirt & pants + arc-rated coverall + arc-rated arc flash suit.	
Shock Protection		Head, Eye & Hearing Protection: Hardhat + Arc-rated hard hat liner + Safety Glasses or Goggles + Ear Canal Inserts	
208 VAC	Shock Risk When Cover Is Removed	Hand & Arm Protection: Arc-rated Gloves	
42 in	Limited Approach	Glove Class: **00 below 500V**	
12 in	Restricted Approach		
1 in	Prohibited Approach		
H2Engineering, Inc. 114 East 5th Ave, Tallahassee, Fl 32303 www.H2Engineering.com		**Equipment ID: EQUIPMENT NAME** Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements.	

NOTE: ELECTRICIAN SHALL PROVIDE COLORED ARC FLASH WARNING LABELS ON ADHESIVE MATERIAL FOR ALL ELECTRICAL PANELS AND OTHER EQUIPMENT LIKELY TO BE EXAMINED AND ADJUSTED WHILE ENERGIZED PER NEC 2017 SECTION 110.16. PRIOR TO COMPLETION, CONTACT ENGINEER FOR AN ELECTRONIC COPY OF LABELS. LABELS SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

C EXAMPLE ARC FLASH HAZARD LABEL



D FLAG POLE MOUNTED LIGHT FIXTURES — N.T.S.

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Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

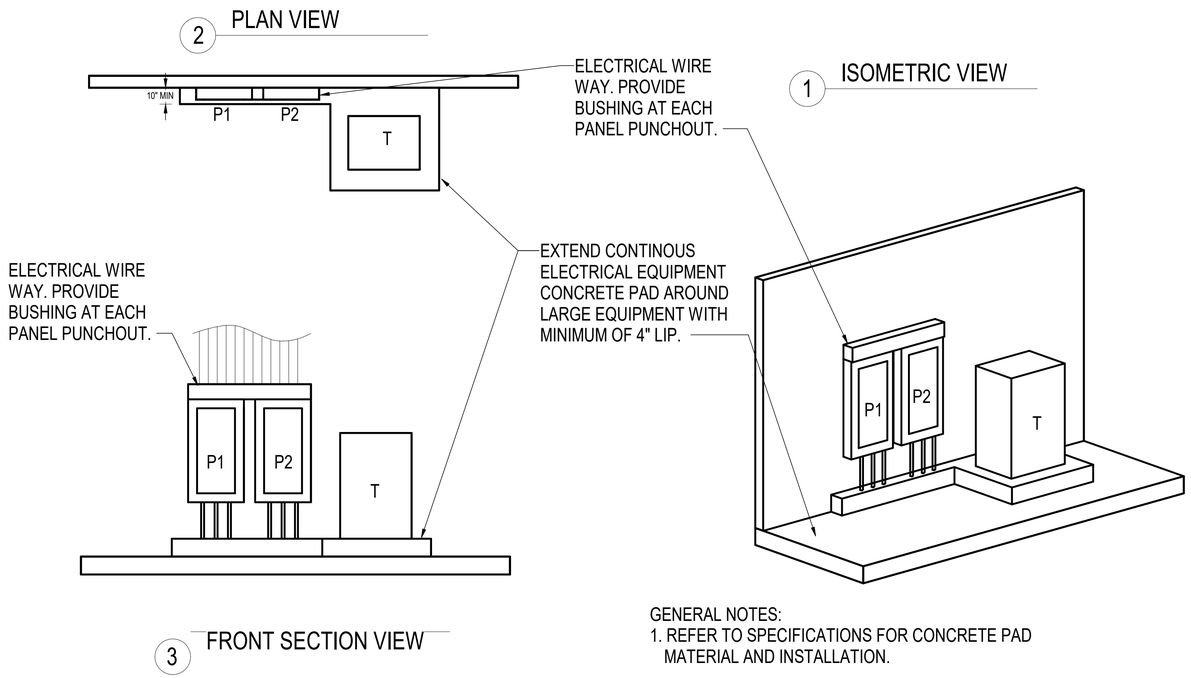
CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

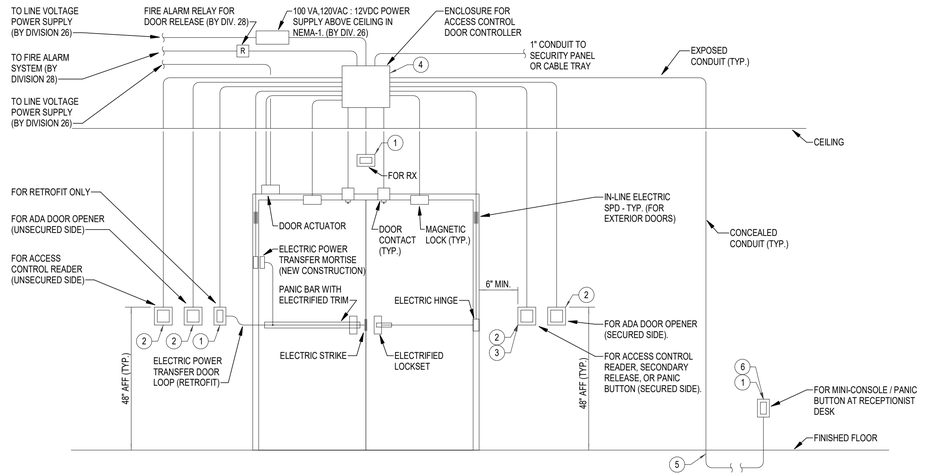
SHEET TITLE
DETAILS

E501

7/21/2025 6:14:00 PM Autodesk Docs://24-092 Wakulla County Library/24-092 MEPCentral_Wakulla County Library_R25.rvt



D ELECTRICAL ROOM TYPICAL PAD AND WIRE WAY — N.T.S.



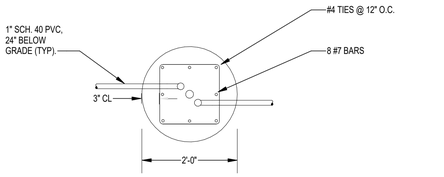
GENERAL NOTES:

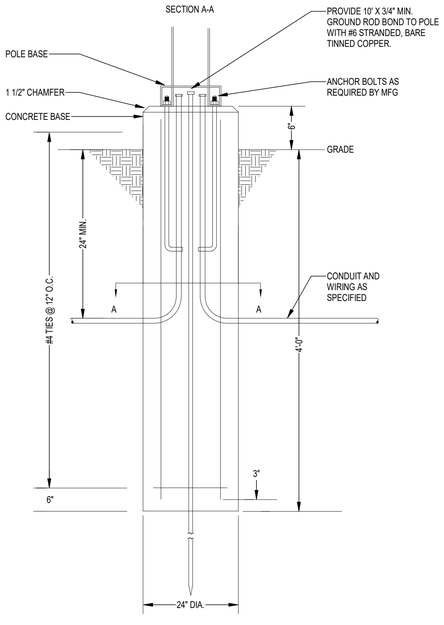
1. THIS DIAGRAM IS NOT DRAWN TO SCALE AND IS A GENERAL REPRESENTATION OF ROUGH-IN REQUIREMENTS FOR VARIOUS TYPES OF ACCESS CONTROL COMPONENTS. VARIOUS COMBINATIONS OF DEVICES MAY BE USED ON DIFFERENT SECURITY DOOR TYPES. COORDINATE INSTALLATION OF ALL ACCESS CONTROL DEVICES WITH DIVISION 08 DOOR HARDWARE SCHEDULE.
2. ALL CONDUITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
3. SEE SPECIFICATIONS FOR CABLE TYPE AND SIZE.
4. LOCKING MECHANISM MAY OR MAY NOT HAVE INTEGRAL REQUEST TO EXIT DEVICE. SEE DOOR SCHEDULE.
5. ALL MANUAL OPERATED CONTROLS (ACCESS CONTROL READERS, ADA DOOR OPENERS, ETC.) SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SWING, IN THE OPEN POSITION.

KEY NOTES:

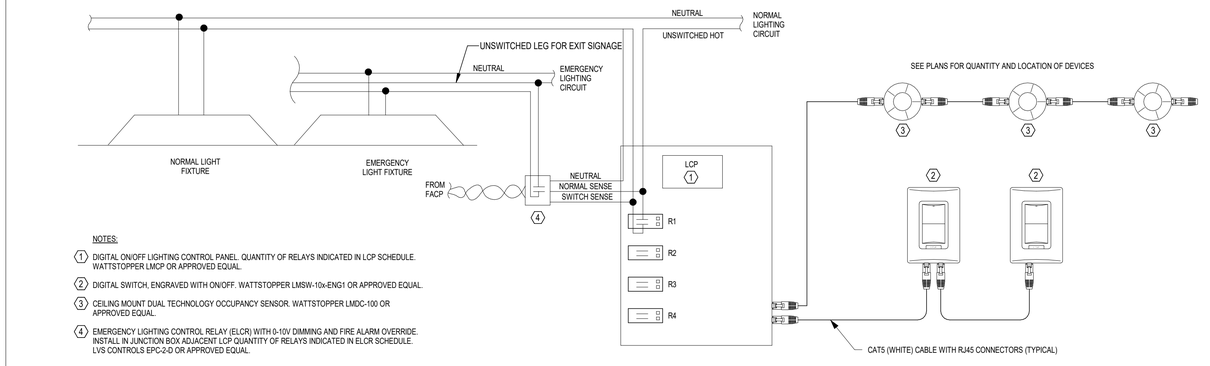
(1) 1-GANG ELECTRICAL BOX WITH PLASTER RING.
(2) 2-GANG ELECTRICAL BOX WITH 1-GANG PLASTER RING.
(3) PROVIDE SEPARATE ELECTRICAL BOX FOR EACH TYPE OF DEVICE.
(4) COORDINATE ELECTRICAL BOX SIZE WITH ACTUAL EQUIPMENT TO BE PROVIDED.
(6) CONDUIT FOR MINI-CONSOLE MAY BE ROUTED FROM ABOVE OR BELOW.
( ) COORDINATE EXACT MOUNTING LOCATION WITH OWNER.

A ACCESS CONTROL DOOR ROUGH-IN DETAIL - DOUBLE DOORS (SIMILAR FOR SINGLE DOORS) — N.T.S.





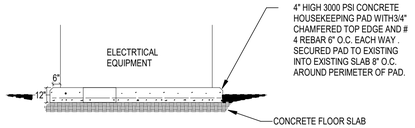
F SQUARE POLE BASE DETAIL — N.T.S.



NOTES:

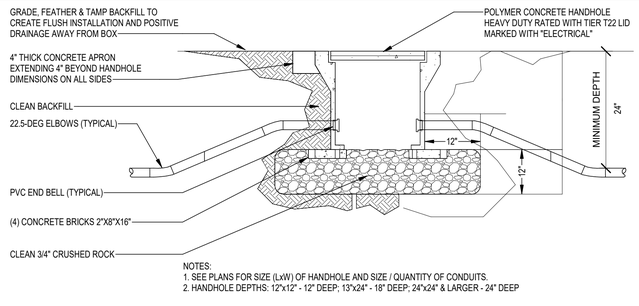
(1) DIGITAL ON/OFF LIGHTING CONTROL PANEL. QUANTITY OF RELAYS INDICATED IN LCP SCHEDULE. WATTSTOPPER LMCP OR APPROVED EQUAL.
(2) DIGITAL SWITCH, ENGRAVED WITH ON/OFF. WATTSTOPPER LMSW-10x-ENG1 OR APPROVED EQUAL.
(3) CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR. WATTSTOPPER LMDC-100 OR APPROVED EQUAL.
(4) EMERGENCY LIGHTING CONTROL RELAY (ELCR) WITH 0-10V DIMMING AND FIRE ALARM OVERRIDE. INSTALL IN JUNCTION BOX ADJACENT LCP QUANTITY OF RELAYS INDICATED IN ELCR SCHEDULE. LVS CONTROLS EPC-2-D OR APPROVED EQUAL.

B LIGHTING CONTROL PANEL WIRING DIAGRAM (CORRIDORS) — N.T.S.



NOTE : PROVIDE EQUIPMENT PAD AT ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT

E CONCRETE EQUIPMENT PAD DETAIL — N.T.S.



NOTES:
1. SEE PLANS FOR SIZE (LxW) OF HANDHOLE AND SIZE / QUANTITY OF CONDUITS.
2. HANDHOLE DEPTHS: 12"x12" - 12" DEEP; 13"x24" - 18" DEEP; 24"x24" & LARGER - 24" DEEP

C IN GRADE POLYMER CONCRETE HANDHOLE - TURF AREAS — N.T.S.

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100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

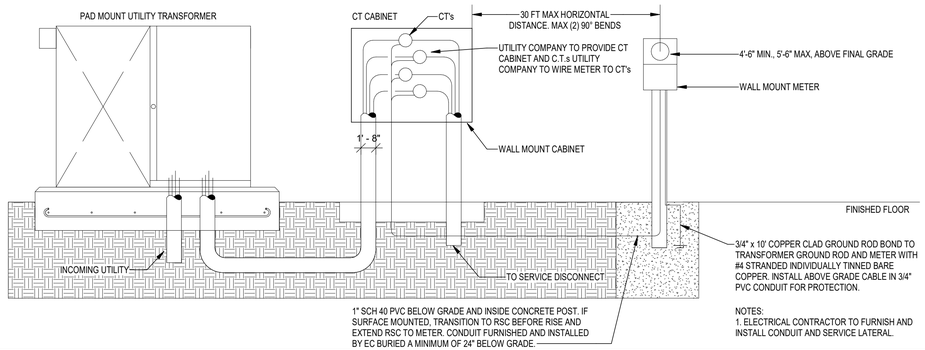
CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
DETAILS

E502

Autodesk Docs://24-092 Wakulla County Library/24-092 MEPCentral_Wakulla County Library_R25.rvt
7/21/2025 6:14:01 PM

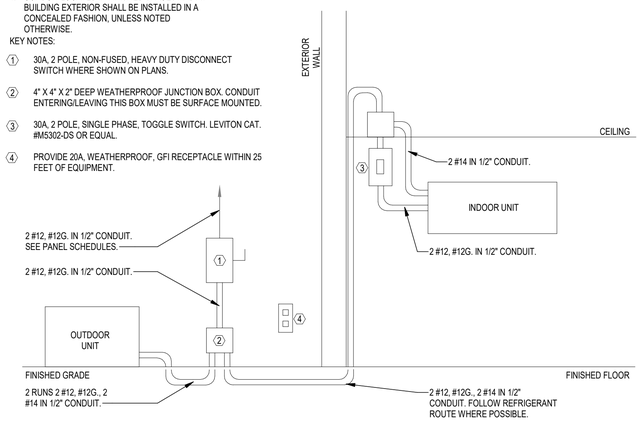


C ELECTRICAL METER INSTALLATION DETAIL N.T.S.

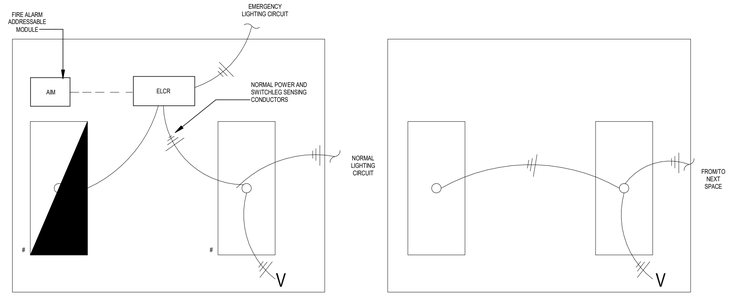
NOTES:
1. CONDUIT LOCATED IN FINISHED SPACES AND AT BUILDING EXTERIOR SHALL BE INSTALLED IN A CONCEALED FASHION, UNLESS NOTED OTHERWISE.

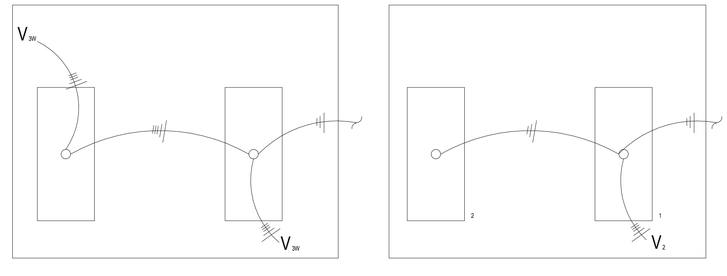
KEY NOTES:

1. 30A, 2 POLE, NON-FUSED, HEAVY DUTY DISCONNECT SWITCH WHERE SHOWN ON PLANS.
2. 4" X 4" X 2" DEEP WEATHERPROOF JUNCTION BOX. CONDUIT ENTERING/LEAVING THIS BOX MUST BE SURFACE MOUNTED.
3. 30A, 2 POLE, SINGLE PHASE, TOGGLE SWITCH. LEVITON CAT. #M5302-DS OR EQUAL.
4. PROVIDE 20A, WEATHERPROOF, GFI RECEPTACLE WITHIN 25 FEET OF EQUIPMENT.



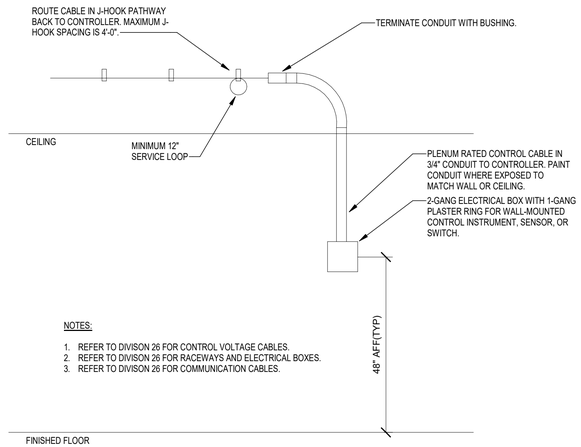
D DUCTLESS SPLIT SYSTEM WIRING DIAGRAM N.T.S.





NOTES:
1. CARRY SWITCH LEG FOR EACH ZONE TO CORRESPONDING ZONE FIXTURES.
2. CONTRACTOR MAY CARRY UNSWITCED CONDUCTOR WITH SWITCHED CONDUCTORS FOR AJACENT AREAS OR UNSWITCHED DEVICES.
3. EMERGENCY CONDUCTORS SHALL NOT SHARE PATHWAY WITH NON-EMERGENCY CONDUCTORS. EXCEPT WITHIN ELCR JUNCTION BOX.
4. ELCR SHALL SWITCH WITH ROOM LIGHTING, WHERE MULTI-ZONE SPACE INDICATED ELCR SHALL SWITCH WITH INDICATED ZONE #.
5. ARRANGEMENT TYPICAL FOR SWITCHES WHERE MANUAL SWITCHES INDICATED.

A TYPICAL LINE VOLTAGE LIGHTING CONTROL SWITCHING DIAGRAM N.T.S.



B WALL-MOUNTED CONTROL VOLTAGE LIGHTING CONTROL DEVICE ROUGH-IN DETAIL N.T.S.

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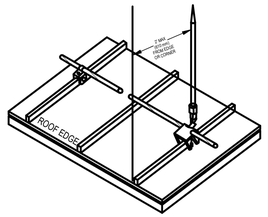
CRA Project # 24071

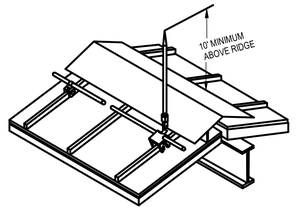
Phase: 100% CONSTRUCTION DOCUMENTS

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DETAILS

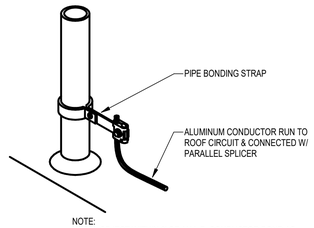
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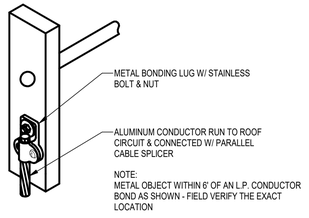


D TYPICAL STANDING SEAM ROOF BASE & CABLE FASTENER N.T.S



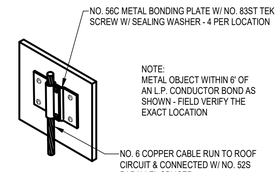
NOTE:
METAL OBJECT WITHIN 6' OF AN L.P. CONDUCTOR BOND AS SHOWN - FIELD VERIFY THE EXACT LOCATION

E TYPICAL ROOF VENT BOND N.T.S

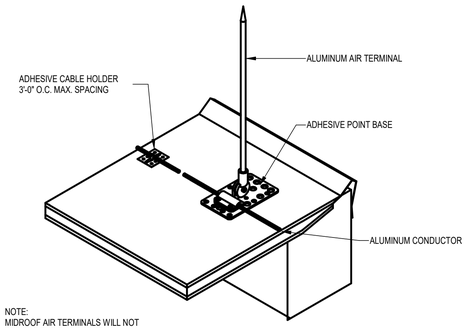


NOTE:
METAL OBJECT WITHIN 6' OF AN L.P. CONDUCTOR BOND AS SHOWN - FIELD VERIFY THE EXACT LOCATION

F TYPICAL MISCELLANEOUS BOND N.T.S



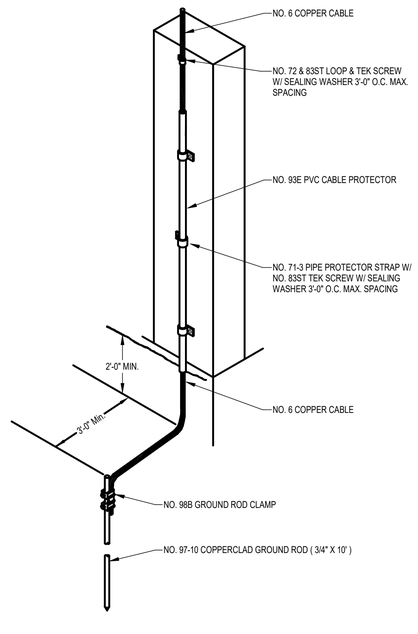
A TYPICAL MECHANICAL UNIT BOND N.T.S



NOTE:
MIDROOF AIR TERMINALS WILL NOT BE NEAR THE ROOF EDGE AS SHOWN.

NOTE:
POINT BASE & CABLE HOLDER WILL BE SET IN AN ADHESIVE COMPUND.

B TYPICAL ADHESIVE AIR BASED TERMINAL N.T.S



C TYPICAL DOWNLEAD & GROUND N.T.S

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H2E PROJECT No.24/02

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

CRA Project # 24071

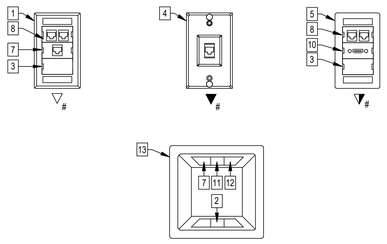
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SHEET TITLE
LIGHTNING PROTECTION DETAILS

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TELECOMMUNICATIONS FACEPLATE LEGEND



NOTES:

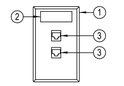
1. CONFIGURATIONS DEPICTED ABOVE ARE EXAMPLES - SEE TELECOMMUNICATION OUTLET SCHEDULE FOR CABLE CONNECTION TYPE, QUANTITY AND SIZE OF BOX.
2. FACEPLATE MATERIAL: TYPE 304 BRUSHED STAINLESS STEEL TO MATCH ELECTRICAL DEVICES.
3. JACK: MODULAR, COLOR TO MATCH CABLE JACKET - SEE TELECOMMUNICATIONS OUTLET SCHEDULE.
4. MODULES: COLOR TO MATCH ELECTRICAL DEVICES IN SAME ROOM.

1	SINGLE GANG, FACEPLATE WITH LABEL FIELDS. HUBBELL IMMSS1 OR APPROVED EQUAL. SEE TELECOMMUNICATION OUTLET SCHEDULE FOR PORT QUANTITY.
2	SINGLE GANG, SPD RECEPTACLE AND BACK BOX PROVIDED BY ELECTRICAL CONTRACTOR.
3	BLANK MODULE, COLOR TO MATCH FACEPLATE. PROVIDE FOR ALL UNUSED PORTS.
4	SINGLE GANG WALL PHONE PLATE WITH ONE 8-PIN CAT-6 RECESSED MODULAR VOICE JACK. HUBBELL; SP6R OR APPROVED EQUAL.
5	SINGLE GANG, MULTI-MEDIA, MODULAR FACEPLATE WITH LABEL FIELDS. HUBBELL; IMSS1 OR APPROVED EQUAL.
6	DUAL GANG, MULTI-MEDIA, MODULAR FACEPLATE WITH LABEL FIELDS. HUBBELL; IMSS2 OR APPROVED EQUAL.
7	ANGLED PORT MODULE WITH ONE (1) DATA JACK, SEE TELECOMMUNICATIONS OUTLET SCHEDULE FOR CABLE AND CONNECTION TYPE.
8	ANGLED PORT MODULE WITH TWO (2) DATA JACK. SEE TELECOMMUNICATIONS OUTLET SCHEDULE FOR CABLE AND CONNECTION TYPE.
9	AUDIO MODULE, SEE AUDIO VISUAL DIAGRAMS FOR CABLES AND CONNECTION TYPES.
10	HDMI MODULE, SEE AUDIO VISUAL DIAGRAMS FOR CABLES AND CONNECTION TYPES.
11	DVI MODULE, SEE AUDIO VISUAL DIAGRAMS FOR CABLES AND CONNECTION TYPES.
12	1-GANG DECORATOR PLATE FOR HDMI OVER HDBaseT RECEIVER - SEE AUDIO VISUAL DIAGRAMS FOR CABLES AND CONNECTION TYPES.
13	TWO GANG AUDIO/VISUAL IN-WALL ENCLOSURE FOR FLAT PANEL DISPLAY. TWO SINGLE GANG MULTI-MEDIA MODULAR FACEPLATES, AND COVER WITH CABLE CUTOUT. HUBBELL: NSAVI62M, NSAV6C, IMF1W(x2) OR APPROVED EQUAL. USE FLAT MODULES IN IN-WALL ENCLOSURE. ELECTRICAL CONTRACTOR TO PROVIDE IN-WALL ENCLOSURE; TELECOMMUNICATIONS CONTRACTOR SHALL PROVIDE DATA JACKS AND ASSOCIATED MODULES.

TELECOMMUNICATIONS

#▽	COMMUNICATIONS TERMINAL OUTLET - # INDICATES SCHEDULE TYPE 4 11/16" SQUARE x 3 1/4" DEEP BACK BOX WITH 1-GANG PLASTER RING. MOUNT AT 18" AFF, UNO. ROUTE 1" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING AND PROVIDE BUSHING; WHERE CEILING IS INACCESSIBLE EXTEND CONDUIT TO ACCESSIBLE CEILING. PROVIDE J-HOOK PATHWAY FROM TERMINATION TO TELECOM ROOM.
#▼	MULTI-MEDIA COMMUNICATIONS TERMINAL OUTLET - # INDICATES SCHEDULE TYPE 4 11/16" SQUARE x 3 1/4" DEEP BACK BOX WITH 1-GANG PASTER RING. MOUNT AT 18" AFF, UNO. ROUTE 1" CONDUIT FOR DATA AND 1 1/4" CONDUIT FOR AV UP WALL TO ABOVE ACCESSIBLE CEILING AND PROVIDE BUSHINGS; WHERE CEILING IS INACCESSIBLE EXTEND CONDUITS TO ACCESSIBLE CEILING. PROVIDE J-HOOK PATHWAY FROM TERMINATIONS TO TELECOM ROOM.
#▽	WIRELESS ACCESS POINT - # INDICATES SCHEDULE TYPE. WHERE CEILING IS INACCESSIBLE, ROUTE 1" CONDUIT TO ACCESIBLE CEILING AND PROVIDE BUSHING. PROVIDE J-HOOK PATHWAY FROM TERMINATION TO TELECOM ROOM. SEE TYPICAL INSTALLATION DETAIL E/TC501.
TPB	TELECOMMUNICATIONS PULL BOX WITH SCREW COVER (16" X 16" X 4" UNO)
	CONDUIT SLEEVE - PROVIDE GROUNDING BUSHING ON EACH END OF CONDUIT AND BOND TO TGB OR CABLE TRAY WITH #6 SOLID COPPER. FIRE SEAL BETWEEN CONDUIT AND WALL. ELBOWS SHALL BE LONG SWEEP TYPE WITH MAXIMUM OF TWO ELBOWS BETWEEN PULL BOXES; PROVIDE PULL BOXES AS NECESSARY.
CBB	COMMUNICATIONS BACKBOARD - EXTERIOR GRADE PLYWOOD. 8' HIGH x 3/4" THICK ON ALL WALLS OF ROOM OR AS SHOWN ON PLANS. BOTTOM OF CBB SET AT 12" AFF. PAINT WITH 2 COATS OF GRAY FIRE RETARDANT PAINT.
TGB	TELECOMMUNICATIONS GROUNDING BAR.
	FLOOR MOUNT 4-POST EQUIPMENT RACK WITH VERTICAL WIRE MANAGERS
	LADDER RACK ABOVE TOP OF EQUIPMENT RACKS. PROVIDE RUNWAY CORNER BRACKET AT CORNERS AND CABLE RADIUS DROP INTO TOP OF RACKS. PROVIDE ALL HARDWARE NECESSARY FOR A COMPLETE SYSTEM.
▽	FLOOR BOX MOUNTED COMMUNICATIONS TERMINAL OUTLET. COMMUNICATIONS CONTRACTOR TO PROVIDE FRAME INSERT JACKS, CABLING AND BLANK COVERS FOR UNUSED PORTS. ROUTE 1" CONDUIT FOR DATA AND 1 1/4" CONDUIT FOR AV (U.N.O.) BELOW FLOOR UP WALL TO ACCESSIBLE CEILING AND PROVIDE BUSHINGS; WHERE CEILING IS INACCESSIBLE EXTEND CONDUITS TO ACCESSIBLE CEILING. PROVIDE J-HOOK PATHWAY FROM TERMINATIONS TO CABLE TRAY OR ELSEWHERE AS INDICATED.
▽	WALL BOX MOUNTED COMMUNICATIONS TERMINAL OUTLET. WALLBOX PROVIDED BY ELECTRICAL CONTRACTOR. COMMUNICATIONS CONTRACTOR TO PROVIDE FRAME INSERT JACKS, CABLING AND BLANK COVERS FOR UNUSED PORTS. CONDUIT REQUIREMENTS SAME AS WALL MOUNT OUTLET U.N.O.
J	4 11/16" SQUARE x 3 1/4" DEEP BACK BOX WITH 1-GANG PASTER RING. ROUTE 1 1/2" CONDUIT UP WALL TO ABOVE ACCESSIBLE CEILING AND PROVIDE BUSHING; WHERE CEILING IS INACCESSIBLE EXTEND CONDUIT TO ACCESSIBLE CEILING OR TELECOMMUNICATIONS ROOM. PROVIDE J-HOOK PATHWAY FROM TERMINATION TO CABLE TRAY.

FACEPLATE ELEVATION



1. SINGLE GANG FACEPLATE INSTALLED ON BACKBOX. MATCH ADJACENT RECEPTACLE FACEPLATE FINISH.
2. LABEL FIELD WITH SNAP-IN PLASTIC COVER.
3. CAT 6 JACK WITH CAT 6 UTP CABLE TO COMMUNICATIONS CLOSET. TERMINATE CABLE USING TIA 568A CONFIGURATION.

TELECOMMUNICATION NOTES

1. THIS CONTRACTOR SHALL PROVIDE ALL RACEWAYS, TRAY, SUPPORTS, GROUNDING, SLEEVES, AND IDENTIFICATION ASSOCIATED WITH THIS CONTRACTOR'S SCOPE OF WORK. REFER TO THE FOLLOWING DIVISION 26 SPECIFICATION SECTIONS FOR APPLICABLE SCOPE OF WORK FOR THIS CONTRACTOR:

   260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
   260529 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
   260533 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS
   260536 CABLE TRAYS FOR ELECTRICAL SYSTEMS
   260543 UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS
   260544 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL SYSTEMS
   260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS

2. CONDUITS SHALL BE STRAPPED IN ACCORDANCE WITH REQUIREMENTS OF N.E.C.
3. CONTRACTOR SHALL BOND AND GROUND RACEWAYS AND EQUIPMENT PER BICSI AND ARTICLE 250 OF N.E.C.
4. ANY SLEEVES REQUIRED IN ADDITION TO THOSE SHOWN THROUGH FIRE/SMOKE RATED PARTITIONS SHALL BE INSTALLED AND SEALED BY THIS CONTRACTOR.
5. CABLE SHALL BE INSTALLED IN TRAY OR ENCLOSED IN RACEWAY UNLESS NOTED OTHERWISE OR INDICATED ON PLANS TO BE OPEN OR UNENCLOSED ("FREE-WIRED") INSTALLATION. RIGID ELECTRICAL NON-METALLIC SCHEDULE 40 PVC SHALL BE USED IN SLABS AND BELOW GRADE; RIGID STEEL CONDUIT (RSC) SHALL BE USED WHERE EXPOSED TO PHYSICAL DAMAGE; ELECTRICAL METALLIC TUBING (EMT) MAY BE USED ELSEWHERE WHERE APPROVED BY N.E.C. AND LOCAL CODES. CABLE TRAY SHALL BE WIRE MESH BASKET TYPE (CENTER HUNG NOT ALLOWED) 12"-WIDE x 4"-DEEP UNLESS NOTED OTHERWISE.
6. OPEN OR UNENCLOSED ("FREE-WIRED") CABLES, WHERE ALLOWED, SHALL BE PLENUM RATED AND BE PROVIDED WITH J-HOOK PATHWAY. J-HOOKS SHALL HAVE A MINIMUM 2" RADIUS AND BE INSTALLED AT MAXIMUM 4-FOOT SPACING SO CABLES DROOP LESS THAN 12" AT ALL LOCATIONS. DO NOT INSTALL J-HOOKS IN INACCESSIBLE AREAS, INCLUDING ABOVE HARD CEILINGS, UNLESS APPROVED IN WRITING BY ENGINEER. USE VELCRO STRAPS TO SECURE CABLES TO EACH J-HOOK.
7. FOR ALL HORIZONTAL CABLES, PROVIDE 12" SERVICE LOOP AT OUTLET AND 10' SERVICE LOOP AT COMMUNICATIONS CLOSET.
8. ALL CABLING AND TIES OR WRAPS SHALL BE PLENUM RATED.
9. EACH HORIZONTAL OR BACKBONE CABLE AND EACH PATCH CORD SHALL BE WRAPPED AT BOTH ENDS WITH A WHITE, PERMANENT, CLEAN, TYPEWRITTEN IDENTIFICATION LABEL WITH BLACK LETTERING.
10. COMPLETE DOCUMENTATION OF ALL CABLING, INCLUDING AS BUILT DIAGRAMS AND TEST RESULTS, SHALL BE DISPLAYED IN THE WIRING CLOSET AND DELIVERED TO THE OWNER.
11. PROVIDE CERTIFICATION FROM CABLE MANUFACTURER THAT CABLE PROVIDED FOR THIS PROJECT IS NOT MANUFACTURER SECONDS (ALSO KNOWN AS FACTORY REJECTS).
12. PROVIDE ONE PATCH CORD FOR EACH LAN DROP INDICATED ON THE FLOOR PLANS. PROVIDE SPARE PATCH CORDS EQUAL TO 10% OF INSTALLED QUANTITY OF DROPS. CORDS SHALL BE 60" IN LENGTH AND SHALL BE CAT-6 OR CAT-6A TO MATCH HORIZONTAL DISTRIBUTION.

APPLICABLE CODES & STANDARDS

PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

1. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA).

2. NATIONAL FIRE CODES
   a. NFPA 1 — UNIFORM FIRE CODE - 2021 (FLORIDA EDITION)
   b. NFPA 70 — NATIONAL ELECTRICAL CODE - 2020
   c. NFPA 72 — NATIONAL FIRE ALARM AND SIGNALING CODE - 2019
   d. NFPA 99 — STANDARD FOR HEALTH CARE FACILITIES - 2021
   e. NFPA 101 — LIFE SAFETY CODE - 2021 (FLORIDA EDITION)

3. FLORIDA BUILDING CODE, 2023 EDITION [INTERNATIONAL BUILDING CODE, 2024 EDITION]
   a. BUILDING CODE
   b. EXISTING BUILDING CODE
   c. ACCESSIBILITY CODE

4. FLORIDA STATUTES
   a. CHAPTER 471 — ENGINEERING
   b. CHAPTER 533.80 — BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT

5. FLORIDA ADMINISTRATIVE CODE
   a. CHAPTER 6A-2 — EDUCATIONAL FACILITIES
   b. CHAPTER 9B-7 — FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
   c. CHAPTER 59A-3 — HOSPITAL LICENSURE
   d. CHAPTER 59A-4 — MINIMUM STANDARDS FOR NURSING HOMES
   e. CHAPTER 59A-5 — AMBULATORY SURGICAL CENTER LICENSURE
   f. CHAPTER 61C-5 — FLORIDA ELEVATOR SAFETY CODE
   g. CHAPTER 69A-3 — FIRE PREVENTION - GENERAL PROVISIONS
   h. CHAPTER 69A-47 — UNIFORM FIRE SAFETY STANDARDS FOR ELEVATORS
   i. CHAPTER 69A-53 — UNIFORM FIRE SAFETY STANDARDS FOR HOSPITALS AND NURSING HOMES
   j. CHAPTER 69A-58 — FIRE SAFETY IN EDUCATIONAL FACILITIES
   k. CHAPTER 69A-60 — THE FLORIDA FIRE PREVENTION CODE

6. GEORGIA FIRE STANDARDS

7. GEORGIA ACCESSIBILITY CODE 120-3-20

8. BISCI
   a. ANSI/BICSI 001 — INFORMATION AND COMMUNICATIONS TECHNOLOGY SYSTEMS DESIGN AND IMPLEMENTATION BEST PRACTICES FOR EDUCATIONAL INSTITUTIONS AND FACILITIES.
   b. ANSI/BICSI 002 — DATA CENTER DESIGN AND IMPLEMENTATION BEST PRACTICES.
   c. ANSI/BICSI 003 — BUILDING INFORMATION MODELING (BIM) PRACTICES FOR INFORMATION TECHNOLOGY SYSTEMS.
   d. ANSI/BICSI 004 — INFORMATION COMMUNICATION TECHNOLOGY SYSTEMS DESIGN AND IMPLEMENTATION BEST PRACTICES FOR HEALTHCARE INSTITUTIONS AND FACILITIES.
   e. ANSI/BICSI 005 — ELECTRONIC SAFETY AND SECURITY (ESS) SYSTEM DESIGN AND IMPLEMENTATION BEST PRACTICES.
   f. ANSI/BICSI 006 — DISTRIBUTED ANTENNA SYSTEM (DAS) DESIGN AND IMPLEMENTATION BEST PRACTICES.
   g. ANSI/BICSI 007 — INFORMATION COMMUNICATIONS TECHNOLOGY DESIGN AND IMPLEMENTATION PRACTICES FOR INTELLIGENT BUILDINGS AND PREMISES.
   h. ANSI/BICSI 008 — WIRELESS LOCAL AREA NETWORK (WLAN) SYSTEM DESIGN AND IMPLEMENTATION BEST PRACTICES
   i. BICSI 009 — DATA CENTER OPERATIONS AND MAINTENANCE BEST PRACTICES.
   j. BICSI G1 — ICT OUTSIDE PLANT CONSTRUCTION AND INSTALLATION: GENERAL PRACTICES.
   k. BICSI G2.1 — ICT OUTSIDE PLANT CONSTRUCTION AND INSTALLATION: POLE SETTING, ANCHORING, AND GUYING.
   l. BICSI G2.2 — ICT OUTSIDE PLANT CONSTRUCTION AND INSTALLATION: INSTALLATION AND LASHING OF AERIAL CABLING.
   m. ANSI/BICSI N1 — INSTALLATION PRACTICES FOR TELECOMMUNICATIONS AND ICT CABLING AND RELATED CABLING INFRASTRUCTURE.
   n. ANSI/BICSI N2 — PRACTICES FOR THE INSTALLATION OF TELECOMMUNICATIONS AND ICT CABLING INTENDED TO SUPPORT REMOTE POWER APPLICATIONS.
   o. ANSI/BICSI N3 — PLANNING AND INSTALLATION METHODS FOR THE BONDING AND GROUNDING OF TELECOMMUNICATION AND ICT SYSTEMS AND INFRASTRUCTURE.

9. UNIVERSTIY OF FLORIDA
   a. UNIVERSITY OF FLORIDA DESIGN AND CONSTRUCTION STANDARDS AS FOUND AT https://facilities.ufl.edu/projects/forms-standards/design-construction-standards AT THE TIME THIS DOCUMENT WAS PUBLISHED.
   b. UNIVERSITY OF FLORIDA TELECOMMUNICATION STANDARDS AS FOUND AT https://facilities.ufl.edu/wp-content/uploads/2021/07/UFITTelecommunicationsStandards2020-REV1July2021.pdf

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

GENERAL NOTES

1. INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2023, THE FLORIDA FIRE PREVENTION CODE, THE NATIONAL ELECTRICAL CODE 2020 EDITION, AND ALL CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION AT THIS SITE. WHERE CONFLICTS OCCUR BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
2. DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS.
3. FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF HE PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR DEFICIENCIES ASSOCIATED THEREWITH.
4. BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON HIS PART.
5. THE CONTRACTOR SHALL PAY FOR INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
6. CONSTRUCTION MANAGER/GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
7. WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
8. ERECT AND MAINTAIN REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
9. COORDINATE AND SEQUENCE DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
10. THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. HE SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY MOBILIZE, PROCEED WITH AND COMPLETE THE WORK.
11. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF EQUIPMENT AND MATERIALS.
12. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
13. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE ARCHITECT AT COMPLETION OF CONSTRUCTION.
14. CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS, PRODUCT DATA AND SAMPLES".
15. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
16. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKER BOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
17. NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
18. SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
19. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES.
20. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS.
21. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
22. THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION. THE OWNER WILL MAKE REASONABLE EFFORTS TO ASSIST THE CONTRACTOR IN COMPLETING THE WORK. COORDINATE WORK WITH THE OWNER'S DESIGNATED REPRESENTATIVE.
23. EXIT WAYS SHALL BE KEPT CLEAR. IF AN EXIT MUST BE TEMPORARILY BLOCKED, PROVIDE THE REQUIRED BARRICADE AND DIRECTIONAL SIGNS FOR TEMPORARY EXITING AND SAFETY.
24. REMOVE AND RE-INSTALL EXISTING CEILING TILE AS REQUIRED. REPLACE ANY TILE DAMAGED OR SOILED DURING CONSTRUCTION.
25. PROVIDE PROPER PROTECTIVE MEASURES TO PROTECT EXISTING FURNITURE, CARPET AND FINISHES DURING THE COURSE OF CONSTRUCTION. TAKE CARE NOT TO DAMAGE EXISTING SURFACES. REPAIR TO MATCH EXISTING CONDITIONS AS REQUIRED.
26. SEAL HOLES IN WALLS, CEILINGS, FLOORS, ETC. TO MATCH EXISTING ADJACENT SURFACES WHERE EQUIPMENT, CONDUIT AND/OR PIPING ARE REMOVED.
27. EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER. DISPOSE OF ALL MATERIALS AND EQUIPMENT SHOWN TO BE REMOVED IN ACCORDANCE WITH LOCAL REGULATIONS.
28. REPLACE SIDEWALKS OR PAVEMENT DAMAGED BY OR DURING CONSTRUCTION OF THIS PROJECT.
29. REMOVE ALL SHRUBBERY, PLANTS, ETC. WHICH INTERFERE WITH WORK UNDER THIS CONTRACT. REPLANT AND/OR REPLACE ALL PLANTS, SHRUBBERY, ETC. AT COMPLETION OF JOB. ALL DISTURBED AREAS OF SOIL SHALL BE RESODDED. REPLACEMENT OF REPLANTING TO BE GUARANTEED FOR ONE YEAR.
30. ITEMS REMOVED AND SAVED FOR REUSE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL IDENTIFY ANY DEFECTIVE MATERIALS PRIOR TO DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO MATERIALS AT PROJECT COMPLETION NOT IDENTIFIED PRIOR TO DEMOLITION.
31. RELOCATE, AS REQUIRED, ANY EXISTING WIRE AND CONDUIT WHICH INTERFERES WITH INSTALLATION OF THE NEW WORK.
32. REMOVE ELECTRICAL EQUIPMENT (CONDUIT, POWER & CONTROL WIRING, DISCONNECT SWITCHES, STARTERS, ETC.) RELATED TO EQUIPMENT BEING REMOVED OR REPLACED.
33. CONTRACTOR SHALL COMPLY WITH "TRENCH SAFETY ACT" (FLORIDA STATUTE 553 PART III) AND OSHA STANDARD 29 CFR 1926.650 SUBPART P FOR ALL UTILITY TRENCHES IN EXCESS OF 5 FEET DEEP. CONTRACTOR SHALL INDICATE WITHIN HIS BID RESPONSE A REFERENCE TO THE TRENCH SAFETY STANDARD AND A SEPARATE LINE ITEM COST OF COMPLIANCE WITH STANDARD.
34. HAZARDOUS MATERIALS (ASBESTOS, PCBs, MERCURY, ETC.) MAY BE ENCOUNTERED ON SITE. CONTRACTOR SHALL BE RESPONSIBLE TO IDENTIFY, ABATE, AND DISPOSE OF ALL HAZARDOUS MATERIALS IN A SAFE AND APPROVED MANNER IN ACCORDANCE WITH LOCAL REGULATIONS.

ABBREVIATIONS

A/V	AUDIO / VISUAL	IP	INTERNET PROTOCOL
ACT	ABOVE COUNTERTOP	LAN	LOCAL AREA NETWORK
AFF	ABOVE FINISHED FLOOR	MC	MAIN CROSS-CONNECT
AHJ	AUTHORITY HAVING JURISDICTION	OFOI	OWNER FURNISHED, OWNER INSTALLED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	PBB	PRIMARY BONDING BUSBAR
		PDU	POWER DISTRIBUTION UNIT
AWG	AMERICAN WIRE GAUGE	POE	POWER OVER ETHERNET
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL	RFI	RADIO FREQUENCY INTERFERENCE
		SBB	SECONDARY BONDING BUSBAR
C	CONDUIT	SC	STANDARD CONNECTOR OR SUBSCRIBER CONNECTOR
CBB	COMMUNICATIONS BACKBOARD		
CLG	CEILING MOUNTED DEVICE	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
CMP	COMMUNICATIONS PLENUM CABLE		
EC	ELECTRICAL CONTRACTOR	TR	TELECOMMUNICATIONS ROOM
EF	ENTRANCE FACILITY	TV	TELEVISION
EIA	ELECTRONIC INDUSTRIES ALLIANCE	TYP	TYPICAL
EMI	ELECTROMAGNETIC INTERFERENCE	UNO	UNLESS NOTED OTHERWISE
ER	EQUIPMENT ROOM	UPS	UNINTERRUPTIBLE POWER SUPPLY
HC	HORIZONTAL CROSS-CONNECT	UTP	UNSHIELDED TWISTED-PAIR
IC	INTERMEDIATE CROSS-CONNECTION	WAP	WIRELESS ACCESS POINT

DRAWING INDEX

TC001	GENERAL NOTES & LEGENDS
TC002	SCHEDULES
TC100	SITE PLAN
TC111	FLOOR PLAN
TC501	DETAILS
TC502	DETAILS

RESPONSIBILITY MATRIX FOR TELECOMMUNICATIONS

AREA OF WORK / CATEGORY OF EQUIPMENT	FURNISHED BY						INSTALLED BY						
NOTE: 1. THIS MATRIX IS INTENDED TO INDICATE A GENERAL LISTING OF THE WORK AND MATERIALS TO BE FURNISHED AND INSTALLED BY THE VARIOUS TRADES FOR COORDINATION PURPOSES ONLY. IT IS NOT INTENDED TO TO BE ALL INCLUSIVE. EACH TRADE IS RESPONSIBLE FOR FURNISHING AND INSTALLING THEIR RESPECTIVE COMPLETE AND WORKING SYSTEM. REFER TO DRAWINGS AND SPECIFICATIONS FOR THE EXTENT OF WORK INVOLVED. 2. THE COUNTY HAS ACTIVE CONTRACTS WITH PROVIDERS FOR TELECOMUNICATIONS SERVICES. AREAS OF WORK INDICATED TO BE COMPLETED BY THE OWNER WILL BE HANDLED BY THE COMPANY WHO CURRENTLY HOLD THE COUNTY TELECOMUNICATIONS SERVICES CONTRACT.	OWNER	ELECTRICAL CONTRACTOR	TELECOM CONTRACTOR	A/V CONTRACTOR	SECURITY CONTRACTOR	FIRE ALARM CONTRACTOR	OWNER	ELECTRICAL CONTRACTOR	TELECOM CONTRACTOR	A/V CONTRACTOR	SECURITY CONTRACTOR	FIRE ALARM CONTRACTOR	COMMENTS
TELECOMMUNICATIONS													
CROSS CONNECTIONS AT THE ANALOG DEMARCATION POINT	X						X						
DIAL TONE SERVICES AND ASSOCIATED RACKS AND EQUIPMENT	X						X						
NETWORK ROUTER	X						X						
NETWORK ACCESS & DISTRIBUTION SWITCHES	X						X						
NETWORK SERVERS, OPERATING SYSTEM SOFTWARE	X						X						
WORKSTATION COMPUTERS, OPERATING SYSTEM SOFTWARE, APPLICATION SOFTWARE, PRINTERS, COPIERS, CUSTOMER PREMISE EQUIPMENT	X						X						
COPPER PATCH CORDS AT WORKSTATION OUTLETS	X						X						
WIRELESS ACCESS POINTS	X						X						
RECORD MANAGEMENT SYSTEM SERVERS, CONSOLES, WORKSTATIONS, MONITORS, HEADSETS, KVM CONTROL	X						X						
COPPER PATCH CORDS AT PATCH PANELS TO ACCESS SWITCHES	X						X						
ABOVEGROUND AND UNDERGROUND RACEWAY SYSTEM. INCLUDING HAND HOLES, PULL BOXES, CONDUITS, CABLE TRAYS, BACK BOXES, SLEEVES THRU WALLS AND FLOORS		X						X					
FLOOR BOXES, WALL BOXES & POKE THROUGHS & TABLE TOP BOXES AND SERVICE FITTINGS INCLUDING ELECTRICAL DEVICES AND EMPTY PLATES TO ACCEPT TELECOMMUNICATION MODULES.		X						X					
COMMUNICATION BACKBOARDS		X						X					
GROUNDING BUSBARS AND BOND TO BUILDING GROUND			X						X				
RACEWAY SYSTEM GROUNDING; TO ASSURE CONTINUOUS G

TELECOMMUNICATIONS OUTLET SCHEDULE

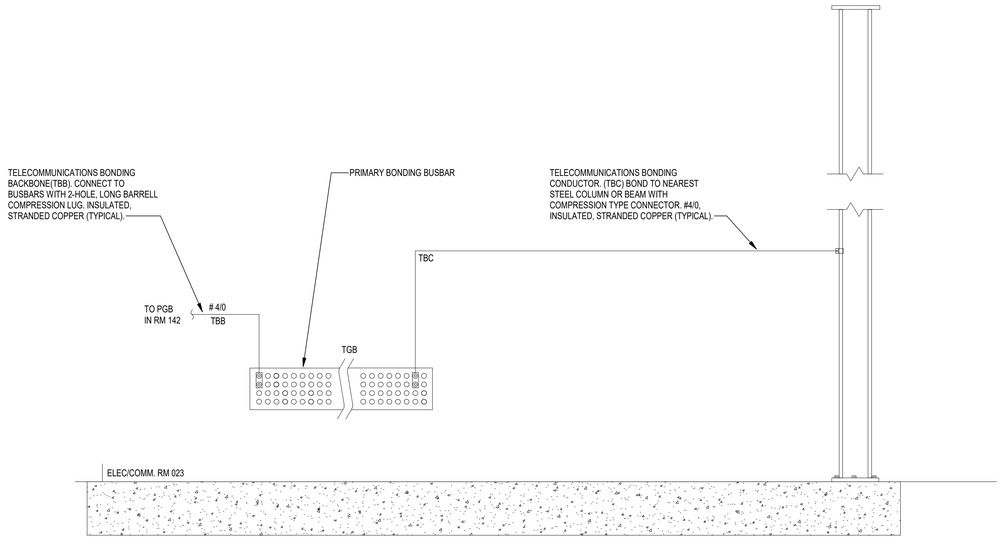
TYPE	FACEPLATE		COPPER JACK MODULES							FIBER OPTIC JACK MODULES						HORIZONTAL CABLE					TERMINATION		NOTES
	GANG	PORTS	QTY	PERF.	CONN.	KEYED	SHIELD	SHUTTER	COLOR	QTY	PERF.	CONNECTION		KEYED	COLOR	TYPE			STRANDS	COLOR	1G	10G	
A2	1	1	1	CAT-5	8P8C	NO	UTP	NO	VIOLET							UTP	CAT-5	CMP		VIOLET			ANALOG
D2	1	2	2	CAT-6	8P8C	NO	UTP	NO	BLUE							UTP	CAT-6	CMP		BLUE	X		
D4	1	4	4	CAT-6	8P8C	NO	UTP	NO	BLUE							UTP	CAT-6	CMP		BLUE	X		
D6	1	6	6	CAT-6	8P8C	NO	UTP	NO	BLUE							UTP	CAT-6	CMP		BLUE	X		
P1	1	1	1	CAT-6	8P8C	NO	UTP	NO	BLACK							UTP	CAT-6	CMP		BLACK	X		
W1			1	CAT-6A	8P8C	NO	UTP	NO	GREEN							UTP	CAT-6A	CMP		GREEN		X	4
Z	1	2																					5

NOTES:
1 COPPER PINOUTS SHALL BE T568-B UNLESS NOTED OTERWISE.
2 TERMINATE CABLES IN PATCH PANELS WITH SAME COLOR DESIGNATION ON RACK LAYOUT DRAWINGS, UNLESS NOTED OTHERWISE.
3 PROVIDE BLANK MODULE FOR UNUSED PORTS IN FACEPLATE; COLOR SHALL MATCH FACEPLATE.
4 OUTLET TYPE "W": WHERE RUN TO WIRELESS ACCESS POINTS, PROVIDE MALE PLUG IN LIEU OF FACEPLATE AND MODULE.
5 OUTLET TYPE "Z": OUTLET FOR FUTURE USE, PROVIDE BLANK MODULE FOR UNUSED PORTS.
6 ELECTRICAL CONTRACTOR TO PROVIDE WALL BOX, FLOOR BOX, OR POKE THROUGH.
7 TELECOM CONTRACTOR TO PROVIDE FACEPLATE, RJ-45 JACK MODULES, FILLER FOR EMPTY SPACES, AND CABLING BETWEEN DEVICES.

RACK SCHEDULE

TAG	TYPE	HEIGHT	WIDTH		AIR DAM	VERTICAL CABLE MANAGER					HORIZ. CABLE MANAG.			COLOR	MANUF	MODEL	PATCH PANEL												PDU/UPS										CORDS	MANUF	MODEL	NOTES
		RMU	(IN)	(IN)		QTY	STYLE	WIDTH (IN)	SPOOL KIT	MODEL	QTY	RMU	MODEL				QTY	RMU	PORTS	TYPE				NETWORK	MANUF	MODEL (NOTE 5)	QTY	RMU	AMPS	VA	V/PH	INPUT	OUTPUTS								
100.1	4-POST	45	84	22	NO	1	DOUBLE	6	YES	13912	7	2	13930	BLACK	CHATSWORTH	15216-703	1	1							PANDUIT	FLEX1U06	1	0	30	5000	208/1	L6-30P	(24)C13			CHATSWORTH	E1-2004-C	PDU
																	4		12	SPL-CAS	FIBER	LC	OS2		PANDUIT	FH59N-12-10P													UPS
																	1	2	48	FLAT	COPPER	8P8C	CAT-6	BLACK	PANDUIT	CPPL48WBLY / CJ688TG													
																	2	2	48	FLAT	COPPER	8P8C	CAT-6	BLUE	PANDUIT	CPPL48WBLY / CJ688TG													
																	1	1	24	FLAT	COPPER	8P8C	CAT-6A	GREEN	PANDUIT	CPPL24WBLY / CJ6X88TG													

NOTES:
1 PROVIDE RACK RADIUS DROPS AT VERTICAL CABLE MANAGERS WHERE CABLE MANAGERS CALLED FOR IN SCHEDULE.
2 PROVIDE EQUIPMENT SUPPORT BRACKETS WHERE INDICATED ON LAYOUT DRAWING.
3 PROVIDE 19" DEEP, NON-VENTED FIXED SHELVES WHERE INDICATED ON LAYOUT DRAWING.
4 PROVIDE FULL HEIGHT DUAL PDU BRACKET FOR ALL RACKS.
5 PROVIDE COLOR CODED (PER NETWORK COLOR INDICATED) UTP MODULES TO POPULATE UNPOPULATED PATCH PANELS
6 PROVIDE UTP PATCH CORD FOR EACH TERMINATED PATCH PANEL PORT + 20% SPARE CORDS. WHERE A SHIELDED PATCH PANEL IS INDICATED PROVIDE S/UTP PATCH CORDS. COLOR SHALL MATCH NETWORK COLOR INDICATED FOR PATCH PANEL.
7 PROVIDE GROUNDING TERMINAL BLOCK AT EACH RACK- CHATSWORTH 080999-001 OR EQUAL.
8 C14:C13 CORDS SHALL BE 14GA, 15A RATED.

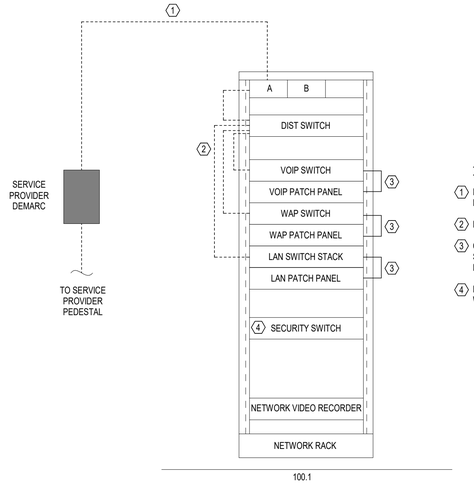


2 GROUNDING RISER DIAGRAM - TELECOMMUNICATIONS
SCALE: N.T.S

RACK ID: 100.1		
45	FIBER PATCH PANEL	45
44	CABLE MANAGER	44
43		43
42	DSW-24PMG DIST SWITCH OFOI	42
41	CABLE MANAGER	41
40		40
39	ASW-48P ACCESS SWITCH (VOIP) OFOI	39
38	48P CAT-6 VOIP PATCH PANEL	38
37	(BLACK)	37
36	CABLE MANAGER	36
35		35
34	ASW-48T ACCESS SWITCH (LAN) OFOI	34
33	48P CAT-6 LAN PATCH PANEL	33
32	(BLUE)	32
31	CABLE MANAGER	31
30		30
29	ASW-48T ACCESS SWITCH (LAN)	29
28	48P CAT-6 LAN PATCH PANEL	28
27	(BLUE)	27
26	CABLE MANAGER	26
25		25
24	ASW-24PMG ACCESS SWITCH (WAP) OFOI	24
23	24P CAT-6A WAP PATCH (GREEN)	23
22	CABLE MANAGER	22
21		21
20		20
19	SECURITY SWITCH	19
18	48P CAT-6 SECURITY PATCH PANEL	18
17		17
16	CABLE MANAGER	16
15		15
14		14
13		13
12		12
11		11
10		10
9		9
8		8
7	NVR BY SECURITY CONTRACTOR	7
6		6
5		5
4		4
3	UPS	3
2		2
1		1

CABLE MANAGER (left) / CABLE MANAGER (right)

RACK LAYOUT
TELECOM ROOM 025



TELECOMMUNICATIONS RISER KEYNOTES

1 FIBER BACKBONE: 24 STRAND TIGHT BUFFERED, OS2 SINGLE MODE OFNP FIBER SPLICED TO PIGTAIL CASSETTES AT NEW FIBER PATCH PANELS. TERMINTATE USING LC CONNECTORS.

2 PROVIDE TWO OS2, OFNR FIBER LC PATCH CORDS FROM EACH ACCESS SWITCH TO DISTRIBUTION SWITCH.

3 CAT 6 OR 6A PATCH CORD FROM EACH TERMINATED PORT ON PATCH PANELS TO APPROPRIATE ACCESS SWITCH OR SWITCH STACK. SEE TELECOMMUNICATIONS OUTLET SCHEDULE TO DETERMINE CATEGORY PERFORMANCE AND SHIELDING REQUIREMENTS OF PATCH CORD. (TYPICAL)

4 PROVIDE AVAILABLE SFP PORT IN DISTRIBUTION SWITCH FOR TERMINATION OF SECURITY SWITCH.FIBER BACKBONE. COORDINATE WITH SECURITY CONTRACTOR, SECURITY CONTRACTOR TO PROVIDE TRANCEIVERS.

1 RISER DIAGRAM - TELECOMMUNICATIONS
SCALE: N.T.S

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
SCHEDULES

TC002

Autodesk Docs://24-092 Wakulla County Library/24-092 MEPCentral_Wakulla County Library_R25.rvt
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KEYNOTES

1. NEW 36"X36"X48" POLYMER CONCRETE HANDHOLE,TIER 22 RATED AND PERMANENTLY MARKED "COMMUNICATIONS" IN COVER.PROVIDE PULLING EYE AND TWO CABLE RACKS EACH WITH TWO CABLE ARMS ON EACH SIDE.PROVIDE GROUND BUS BONDED TO 3/4" COPPER CLAD GROUND ROD DRIVEN THROUGH BOTTOM OF HANDHOLE WITH BARE #2 STRANDED,TINNED COPPER WIRE WITH EXOTHERMIC WELD.OLDCASTLE POLYMER 3636 OR APPROVED EQUAL.
2. PROVIDE 3 CELL FABRIC INNDERDUCT (MAXCELL: MXE86383 OR APPROVED EQUAL) IN EACH CONDUIT RUN.

EXISTING 24"X36" COMMUNICATIONS PULL BOX

2-4"C (2)

EXISTING 24"X36" COMMUNICATIONS PULL BOX

GRAVEL DRIVEWAY

EXISTING BUILDING

EXISTING 24"X36" COMMUNICATIONS PULL BOX

EXISTING BUILDING

EXISTING BUILDING

Trice Ln

2-4"C (2)

2-4"C (2) (1)

Pond

Pond

GRAVEL DRIVEWAY

GRAVEL DRIVEWAY

PAVED BIKE PATH

Shadeville Rd

TRICE LANE SITE

North

SITE PLAN - TELECOM

Scale: 1" = 30'-0"

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Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
SITE PLAN

TC100

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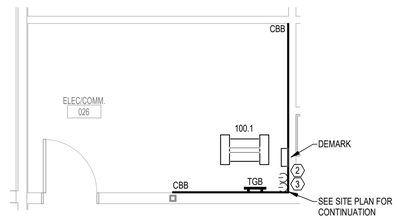
KEYNOTES

1. 18" WIDE x 1.5" HIGH ADJUSTABLE CABLE RUNWAY (LADDER RACK) WITH CROSS MEMBERS 12" O.C. OVER RACKS AND SERVER EQUIPMENT. MOUNT BOTTOM AT 7'-10" AFF. PROVIDE GROUNDING STRAP KIT ACROSS ALL FITTINGS. PROVIDE TWO TOOL-LESS PATHWAY DIVIDERS EVENLY SPACED ACROSS CROSS MEMBERS SPACED 2'-0" ON CENTER. PROVIDE TOOL-LESS 9" WIDE CROSS MEMBER RADIUS CABLE DROP AT EACH CONDUIT SLEEVE FROM BELOW. PROVIDE TOOL-LESS 6" WIDE STRINGER RADIUS CABLE DROPS, 2 AT EACH RACK AND CABINET, ALIGNED WITH VERTICAL CABLE MANAGERS ON RACKS/CABINETS.
   COLOR: BLACK.
   CHATSWORTH: 14300-718 / 14308 / 14304-X09 / 14305-X01 / 14307
2. PROVIDE VERTICAL CABLE MANAGERS ON 12" SPACING ALONG CBB TO CABLE RUNWAY FROM CONDUIT SLEEVES ABOVE AND BELOW.
3. PROVIDE SEALING ELEMENT, SUCH AS REUSABLE INFLATING TERMINATION BAG BY MAXCELL, FOR EACH CONDUIT TERMINATION FROM BELOW GRADE INTO TELECOMMUNICATIONS ROOM.



FLOOR PLAN - TELECOM

Scale: 1/8" = 1'-0"



2 TC111 ELEC/COMM. RM 025 ENLARGED PLAN

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

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100% CDs	7/21/25	GAG	ADW

Revision

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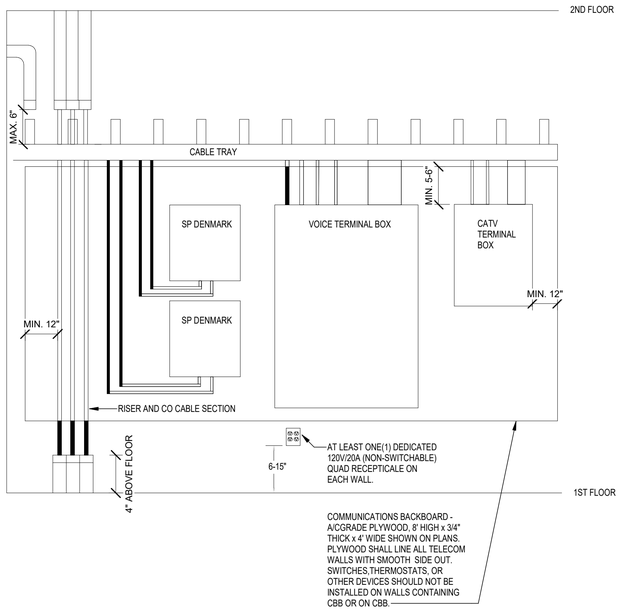
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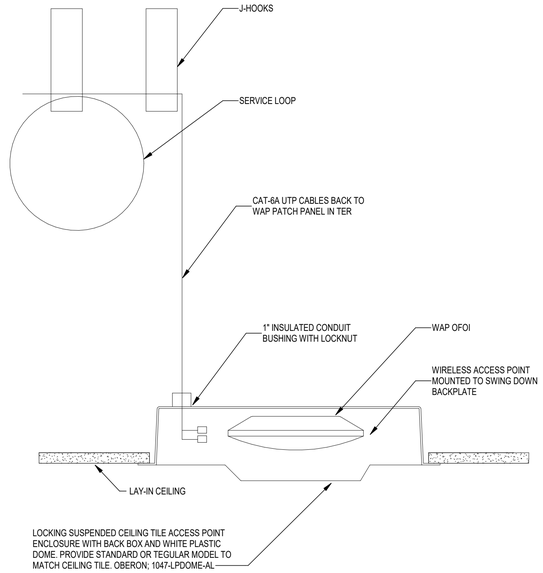
SHEET TITLE
FLOOR PLAN

TC111

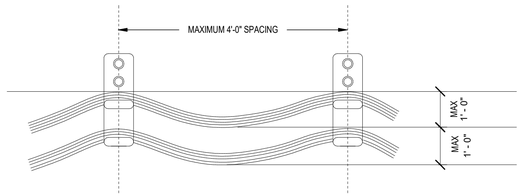
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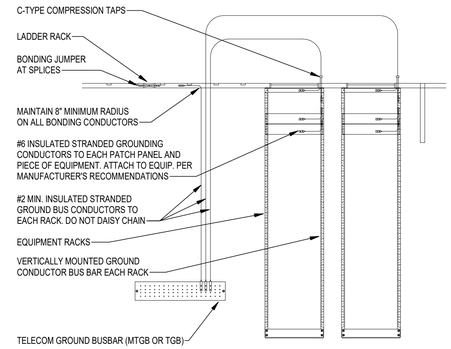
H TYPICAL BACKBOARD LAYOUT **N.T.S**



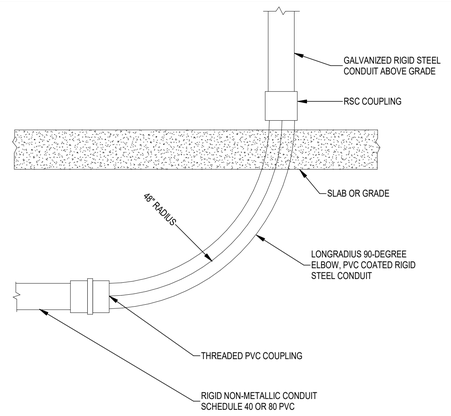
E INTERIOR CEILING MOUNT ACCESS POINT ENCLOSURE **N.T.S**



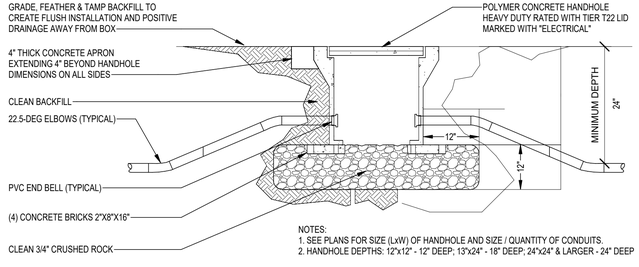
A TYPICAL NON-CONTINUOUS, OPEN-TOP CABLE SUPPORT (J-HOOK) INSTALLATION **N.T.S**



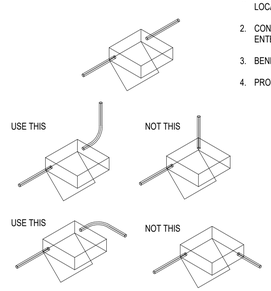
B LADDER RACK AND EQUIPMENT RACK GROUNDING DETAIL **N.T.S**



C UNDERGROUND CONDUIT TRANSITION TO ABOVE GRADE **N.T.S**



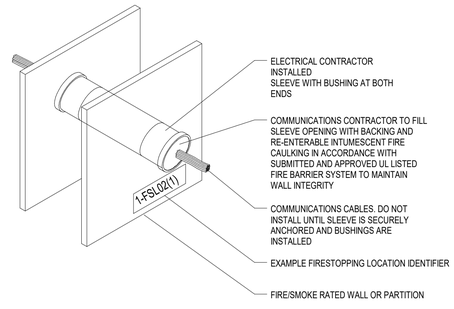
D IN GRADE POLYMER CONCRETE HANDHOLE - TURF AREAS **N.T.S**



GENERAL PULLBOX REQUIREMENTS:

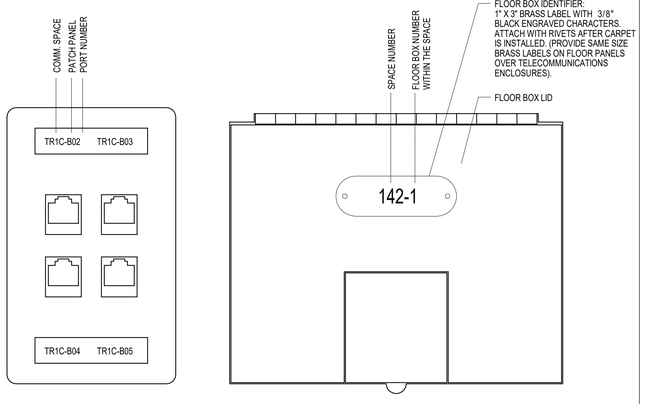
1. PULLBOXES SHALL BE INSTALLELD IN EASILY ACCESSIBLE LOCATIONS.
2. CONDUITS SHALL ENTER AND EXIT FROM OPPOSITE ENDS. ENTERING AND EXITING CONDUITS SHALL BE ALIGNED.
3. BENDS SHALL NOT BE MADE INSIDE THE PULLBOX.
4. PROVIDE HINGED BOTTOMS.

J TELECOMMUNICATIONS PULLBOX INSTALLATION **N.T.S**

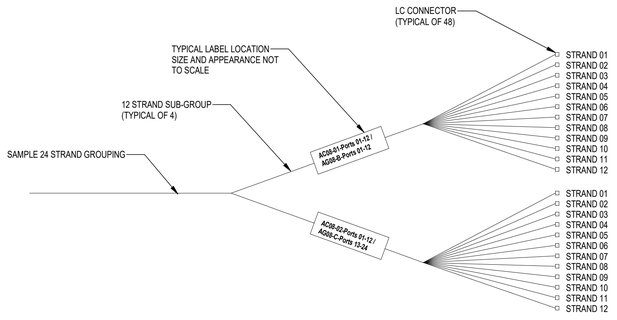


(FLOOR PENETRATIONS TO BE SEALED SIMILARLY)

F PENETRATION DETAIL THRU FIRE/SMOKE RATED AND FULL HEIGHT PARTITIONS **N.T.S**



K FLOOR BOX AND FACEPLATE LABEL EXAMPLE **N.T.S.**



G EXAMPLE PRE-TERMINATED CABLE LABELING SCHEME **N.T.S**

H2 ENGINEERING
114 EAST 5th AVENUE
TALLAHASSEE, FL 32303
PHONE 850.224.7922
www.H2Engineering.com
H2E PROJECT No.24/02

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CRAWFORDVILLE, FL

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

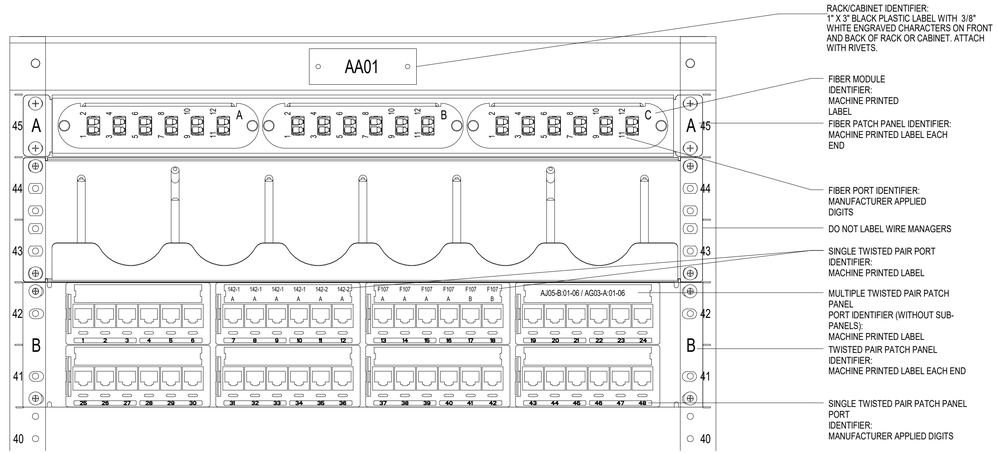
CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

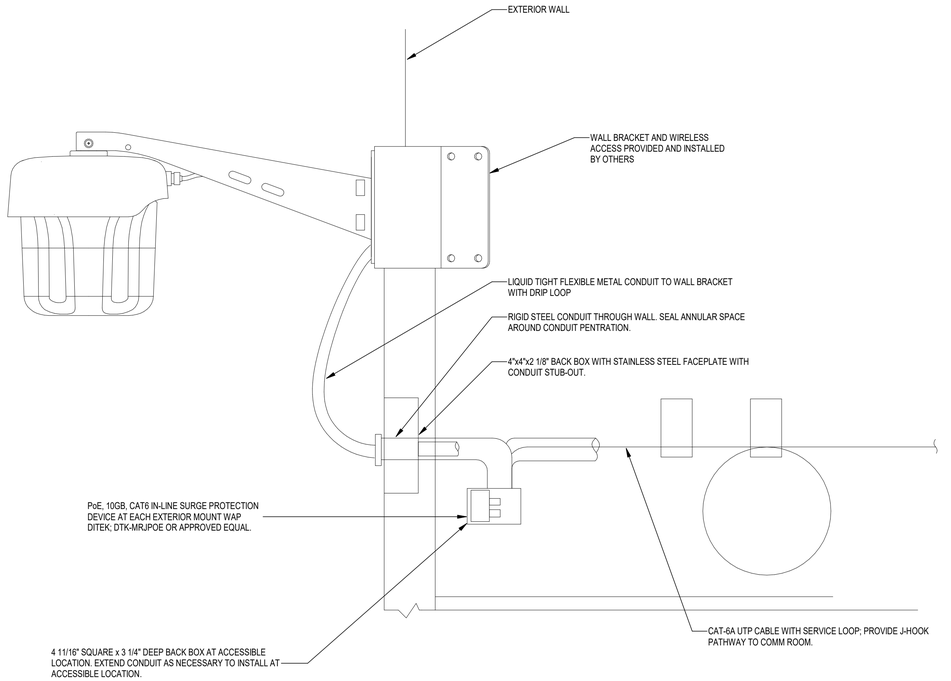
SHEET TITLE
DETAILS

TC501

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A **EXAMPLE CABINET, RACK AND PATCH PANEL LABELING SCHEME** **N.T.S.**



B **EXTERIOR WALL MOUNT ACCESS POINT** **N.T.S.**

H2 ENGINEERING
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Submittal

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100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
DETAILS

TC502

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ACCESS CONTROL DOOR IDENTIFICATION CODE

FIRST LETTER: (CONTROL FUNCTION)
C: CONTROLLED
M: MONITORED

SECOND LETTER: (DOOR TYPE)
G: GATE
H: HINGED DOOR
R: ROLL-UP DOOR
S: SLIDING DOOR

SUCCEEDING LETTER(S): (MODIFIERS)
A: ADA
C: CAGE
T: STOREFRONT

XYZ-N-Q
- X: CONTROL FUNCTION
- Y: DOOR TYPE
- Z: MODIFIERS (IF NEEDED)
- Q: FEATURE SET
- N: NUMBER OF DOORS

CHTA-1-1 — EXAMPLE: CONTROLLED SINGLE DOOR (HINGED, ADA, STOREFRONT)

MH-2-1 — EXAMPLE: MONITORED DOUBLE DOOR (HINGED)

CR-1-2 — EXAMPLE: CONTROLLED ROLL-UP DOOR

SECURITY CAMERAS IDENTIFICATION CODE

FIRST LETTER: (CONTROL FUNCTION)
D: DOME
F: FISHEYE
M: MULTI-SENSOR
P: PAN-TILT-ZOOM
I: INTERCOM
B: BULLET
T: TURRET
S: SPECIALTY

SECOND LETTER: (MOUNTING METHOD)
C: CEILING
W: WALL
L: CORNER
P: POLE

XY-N.Q
- X: CAMERA TYPE
- Y: MOUNTING METHOD
- Q: FUNCTION VARIANT (IF NEEDED)
- N: UNIT INDENTIFIER

MC-1 — EXAMPLE: MULTI-SENSOR (CEILING MOUNTED, TYPE 1)

DW-2.1 — EXAMPLE: DOME (WALL MOUNTED, TYPE 2, FUNCTION SET 1)

DW-2.2 — EXAMPLE: DOME (WALL MOUNTED, TYPE 2, FUNCTION SET 2)

ACCESS CONTROL / SECURITY PANELS

ACS	ACCESS CONTROL SYSTEM PANEL
ACN	ACCESS CONTROL NETWORK CONTROLLER
VSS	VIDEO SURVEILLANCE SYSTEM PANEL
NVR	NETWORK VIDEO RECORDER

ACCESS CONTROL DEVICES

ADO	PUSH-BUTTON FOR ADA DOOR OPENER
CR	ACCESS CONTROL READER - INDICATEDS SECURE SIDE OF DOORWAY
XXX-X-X #	ACCESS CONTROL CARD READER BY SECURITY CONTRACTOR. INDICATES SECURE ACCESS SIDE OF DOOR.
DB	DOOR BELL
*	DOOR BELL BUTTON
⬡	DOOR ACTUATOR
DC	DOOR CONTACT
EL	ELECTRIFIED LOCKSET
ES	ELECTRIC DOOR STRIKE
ET	ELECTRIFIED TRIM
K	SECURITY KEY PAD
KS	KEY OPERATED OVERRIDE SWITCH FOR MAGNETIC DOOR HOLDERS, (FURNISHED AND INSTALLED BY HARDWARE PROVIDER)
MC	MINI-CONSOLE PUSH BUTTON AT RECEPTION DESK. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.
ML	MAGNETIC LOCK
PB	PANIC BUTTON
PTD	ELECTRIC POWER TRANSFER DEVICE (MAY BE ELECTRIC HINGE, DOOR LOOP, OR MORTISE TYPE)
RX	REQUEST TO EXIT DEVICE
SR	SECONDARY RELEASE PUSH BUTTON

VIDEO SURVEILLANCE

NOTE: REFER TO CAMERA SCHEDULE FOR CAMERA TYPES.

CAT6 CAT6	EXTERIOR MOUNT SECURITY CAMERA. EXTEND 1" CONDUIT FROM CAMERA LOCATION TO 4 11/16" SQUARE x 3 1/4" DEEP BACK BOX IMMEDIATELY INSIDE EXTERIOR WALL OR NEAREST ACCESSIBLE LOCATION. ROUTE 1" CONDUIT FROM BOX TO TELECOMMUNICATIONS EQUIPMENT ROOM. SEE TELECOMMUNICATIONS DRAWINGS FOR ADDITIONAL CONDUIT REQUIRMENTS.
	INTERIOR SECURITY CAMERA. PROVIDE 4 11/16" SQUARE x 2 1/8" DEEP BACK BOX IN WALL (WALL MOUNT CAMERA) OR SUPPORT FROM STRUCTURE WITH 1/4" THREADED ROD (CEILING MOUNT CAMERA). ROUTE 1" CONDUIT FROM BOX TO TELECOMMUNICATIONS EQUIPMENT ROOM. SEE TELECOMMUNICATIONS DRAWINGS FOR ADDITIONAL CONDUIT REQUIRMENTS.

RESPONSIBILITY MATRIX FOR ELECTRONIC SAFETY AND SECURITY

AREA OF WORK / CATEGORY OF EQUIPMENT	FURNISHED BY						INSTALLED BY						
NOTE: THIS MATRIX IS INTENDED TO INDICATE A GENERAL LISTING OF THE WORK AND MATERIALS TO BE FURNISHED AND INSTALLED BY THE VARIOUS TRADES FOR COORDINATION PURPOSES ONLY. IT IS NOT INTENDED TO TO BE ALL INCLUSIVE. EACH TRADE IS RESPONSIBLE FOR FURNISHING AND INSTALLING THEIR RESPECTIVE COMPLETE AND WORKING SYSTEM. REFER TO DRAWINGS AND SPECIFICATIONS FOR THE EXTENT OF WORK INVOLVED. 2. THE COUNTY HAS ACTIVE CONTRACTS WITH PROVIDERS FOR SECURITY SERVICES. AREAS OF WORK INDICATED TO BE COMPLETED BY THE OWNER WILL BE HANDLED BY THE COMPANY WHO CURRENTLY HOLDS THE COUNTY SECURITY SERVICES CONTRACT.	OWNER	ELECTRICAL CONTRACTOR	TELECOM CONTRACTOR	AV CONTRACTOR	SECURITY CONTRACTOR	FIRE ALARM CONTRACTOR	OWNER	ELECTRICAL CONTRACTOR	TELECOM CONTRACTOR	AV CONTRACTOR	SECURITY CONTRACTOR	FIRE ALARM CONTRACTOR	COMMENTS
SECURITY SYSTEMS													
ACCESS CONTROL SYSTEM INTEGRATION HARDWARE AND SOFTWARE	X						X						
ACCESS CONTROL DEVICES (EXCLUDING DOOR HARDWARE)	X						X						
POWER SUPPLIES FOR ACCESS CONTROL DEVICES	X						X						EC TO PROVIDE ELECTRICAL CIRCUIT
VIDEO SURVEILLANCE CAMERAS, NVR, INTEGRATION HARDWARE AND SOFTWARE	X						X						
ABOVEGROUND CONDUITS, CABLE TRAYS, BACK BOXES, SLEEVES THRU WALLS AND FLOORS		X						X					
SECURITY SYSTEM NETWORK CABLES AND PATCH CORDS	X						X						INCLUDING UPLINK TO SWITCH
SURGE PROTECTION DEVICES FOR COPPER CABLES TO EXTERIOR MOUNTED SECURITY DEVICES	X						X						
FIRESTOPPING OF SLEEVES AFTER SECURITY CABLES (NON-NETWORK CABLES) ARE PULLED	X						X						
IDENTIFICATION AND LABELING	X						X						
PERMANENT LINK TESTING AND DOCUMENTATION AFTER INSTALLATION	X						X						

SECURITY NOTES

1. THE INTENT OF THE DRAWINGS IS TO PROVIDE A COMPLETE AND OPERATIONAL SECURITY SYSTEM IN ACCORDANCE WITH THE FUNCTIONAL REQUIREMENTS AND SEQUENCE(S) OF OPERATION. THE DRAWINGS INDICATE DESIGN INTENT BUT ARE DIAGRAMMATICAL IN NATURE AND DO NOT NECESSARILY INDICATE OR DETAIL EACH COMPONENT REQUIRED TO PROVIDE A FULLY FUNCTIONAL SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS AND/OR WIRING TO ACHIEVE A FULLY FUNCTIONAL SYSTEM.
2. PRIOR TO BID, REVIEW THE ELECTRICAL DOCUMENTS IN DETAIL. INCLUDE WITHIN THE BID PRICE ANY ADDITIONAL INFRASTRUCTURE REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
3. COORDINATE INSTALLATION OF ALL DOOR ACCESS CONTROL DEVICES WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE. SEE DIVISION 08 SPECIFICATIONS FOR FUNCTION AND SEQUENCE OF OPERATION. COORDINATE FUNCTIONALITY AND SEQUENCE OF OPERATION WITH ALL TRADE CONTRACTORS.
4. ELECTRIFIED DOOR HARDWARE FUNCTIONS ARE SUBJECT TO APPROVAL OF AUTHORITY HAVING JURISDICTION.
5. MAGNETIC LOCKS SHALL AUTOMATICALLY RELEASE UPON LOSS OF POWER OR ACTIVATION OF THE FIRE ALARM SYSTEM. THE DOORS SHALL REMAIN UNLOCKED UNTIL THE FIRE ALARM SYSTEM IS RESET.
6. COORDINATE EXACT LOCATION OF ALL SECURITY DEVICES WITH OTHER CEILING AND WALL MOUNTED COMPONENTS.
7. THIS CONTRACTOR SHALL PROVIDE ALL RACEWAYS, TRAY, SUPPORTS, GROUNDING, SLEEVES, AND IDENTIFICATION ASSOCIATED WITH THIS CONTRACTOR'S SCOPE OF WORK. REFER TO THE FOLLOWING DIVISION 26 SPECIFICATION SECTIONS FOR APPLICABLE SCOPE OF WORK FOR THIS CONTRACTOR:

   260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
   260529 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
   260533 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS
   260536 CABLE TRAYS FOR ELECTRICAL SYSTEMS
   260543 UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS
   260544 SLEEVES AND SLEEVE SEALS FOR ELECTRICAL SYSTEMS
   260553 IDENTIFICATION FOR ELECTRICAL SYSTEMS

8. CONDUITS SHALL BE STRAPPED IN ACCORDANCE WITH REQUIREMENTS OF N.E.C.
9. CONTRACTOR SHALL BOND AND GROUND RACEWAYS AND EQUIPMENT PER BICSI AND ARTICLE 250 OF N.E.C.
10. ANY SLEEVES REQUIRED IN ADDITION TO THOSE SHOWN THROUGH FIRE/SMOKE RATED PARTITIONS SHALL BE INSTALLED AND SEALED BY THIS CONTRACTOR.
11. CABLE SHALL BE INSTALLED IN TRAY OR ENCLOSED IN RACEWAY UNLESS NOTED OTHERWISE OR INDICATED ON PLANS TO BE OPEN OR UNENCLOSED ("FREE-WIRED") INSTALLATION. RIGID ELECTRICAL NON-METALLIC SCHEDULE 40 PVC SHALL BE USED IN SLABS AND BELOW GRADE; RIGID STEEL CONDUIT (RSC) SHALL BE USED WHERE EXPOSED TO PHYSICAL DAMAGE; ELECTRICAL METALLIC TUBING (EMT) MAY BE USED ELSEWHERE WHERE APPROVED BY N.E.C. AND LOCAL CODES. CABLE TRAY SHALL BE WIRE MESH BASKET TYPE (CENTER HUNG NOT ALLOWED) 12"-WIDE x 4"-DEEP UNLESS NOTED OTHERWISE.
12. OPEN OR UNENCLOSED ("FREE-WIRED") CABLES, WHERE ALLOWED, SHALL BE PLENUM RATED AND BE PROVIDED WITH J-HOOK PATHWAY. J-HOOKS SHALL HAVE A MINIMUM 2" RADIUS AND BE INSTALLED AT MAXIMUM 4-FOOT SPACING SO CABLES DROOP LESS THAN 12" AT ALL LOCATIONS. DO NOT INSTALL J-HOOKS IN INACCESSIBLE AREAS, INCLUDING ABOVE HARD CEILINGS, UNLESS APPROVED IN WRITING BY ENGINEER. USE VELCRO STRAPS TO SECURE CABLES TO EACH J-HOOK.
13. FOR ALL HORIZONTAL CABLES, PROVIDE 12" SERVICE LOOP AT OUTLET AND 10' SERVICE LOOP AT COMMUNICATIONS CLOSET.
14. ALL CABLING AND TIES OR WRAPS SHALL BE PLENUM RATED.
15. EACH HORIZONTAL OR BACKBONE CABLE AND EACH PATCH CORD SHALL BE WRAPPED AT BOTH ENDS WITH A WHITE, PERMANENT, CLEAN, TYPEWRITTEN IDENTIFICATION LABEL WITH BLACK LETTERING. PROVIDE COMPLETE DOCUMENTATION OF ALL CABLING, INCLUDING AS BUILT DIAGRAMS AND TEST RESULTS ON TYPEWRITTEN SCHEDULE IN TELECOM ROOMS.
16. PROVIDE CERTIFICATION FROM CABLE MANUFACTURER THAT CABLE PROVIDED FOR THIS PROJECT IS NOT MANUFACTURER SECONDS (ALSO KNOWN AS FACTORY REJECTS).

APPLICABLE CODES

PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

1. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA).

2. NATIONAL FIRE CODES
   a. NFPA 1 — UNIFORM FIRE CODE - 2021 (FLORIDA EDITION)
   b. NFPA 70 — NATIONAL ELECTRICAL CODE - 2020
   c. NFPA 72 — NATIONAL FIRE ALARM AND SIGNALING CODE - 2019
   d. NFPA 99 — STANDARD FOR HEALTH CARE FACILITIES - 2021
   e. NFPA 101 — LIFE SAFETY CODE - 2021 (FLORIDA EDITION)

3. FLORIDA BUILDING CODE, 2023 EDITION [INTERNATIONAL BUILDING CODE, 2024 EDITION]
   a. BUILDING CODE
   b. EXISTING BUILDING CODE
   c. ACCESSIBILITY CODE

4. FLORIDA STATUTES
   a. CHAPTER 471 — ENGINEERING
   b. CHAPTER 533.80 — BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT

5. FLORIDA ADMINISTRATIVE CODE
   a. CHAPTER 6A-2 — EDUCATIONAL FACILITIES
   b. CHAPTER 9B-7 — FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
   c. CHAPTER 59A-3 — HOSPITAL LICENSURE
   d. CHAPTER 59A-4 — MINIMUM STANDARDS FOR NURSING HOMES
   e. CHAPTER 59A-5 — AMBULATORY SURGICAL CENTER LICENSURE
   f. CHAPTER 61C-5 — FLORIDA ELEVATOR SAFETY CODE
   g. CHAPTER 69A-3 — FIRE PREVENTION - GENERAL PROVISIONS
   h. CHAPTER 69A-47 — UNIFORM FIRE SAFETY STANDARDS FOR ELEVATORS
   i. CHAPTER 69A-53 — UNIFORM FIRE SAFETY STANDARDS FOR HOSPITALS AND NURSING HOMES
   j. CHAPTER 69A-58 — FIRE SAFETY IN EDUCATIONAL FACILITIES
   k. CHAPTER 69A-60 — THE FLORIDA FIRE PREVENTION CODE

6. GEORGIA FIRE STANDARDS

7. GEORGIA ACCESSIBILITY CODE 120-3-20

8. UNIVERSTIY OF FLORIDA
   a. UNIVERSITY OF FLORIDA DESIGN AND CONSTRUCTION STANDARDS AS FOUND AT https://facilities.ufl.edu/projects/forms-standards/design-construction-standards AT THE TIME THIS DOCUMENT WAS PUBLISHED.
   b. UNIVERSITY OF FLORIDA TELECOMMUNICATION STANDARDS AS FOUND AT https://facilities.ufl.edu/wp-content/uploads/2021/07/UFITTelecommunicationsStandards2020-REV1July2021.pdf

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

GENERAL NOTES

1. INSTALL ALL WORK IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2023, THE FLORIDA FIRE PREVENTION CODE, THE NATIONAL ELECTRICAL CODE 2020 EDITION, AND ALL CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION AT THIS SITE. WHERE CONFLICTS OCCUR BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
2. DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS.
3. FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF HE PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR DEFICIENCIES ASSOCIATED THEREWITH.
4. BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON HIS PART.
5. THE CONTRACTOR SHALL PAY FOR INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
6. CONSTRUCTION MANAGER/GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
7. WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
8. ERECT AND MAINTAIN REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
9. COORDINATE AND SEQUENCE DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
10. THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. HE SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY MOBILIZE, PROCEED WITH AND COMPLETE THE WORK.
11. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF EQUIPMENT AND MATERIALS.
12. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
13. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE ARCHITECT AT COMPLETION OF CONSTRUCTION.
14. CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS, PRODUCT DATA AND SAMPLES".
15. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
16. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKER BOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
17. NOTE ANY SPECIAL REQUIREMENTS INVOLVED IN INSTALLING THE EQUIPMENT IN THE BUILDING. DISMANTLING AND REASSEMBLING OF ANY EQUIPMENT SHALL BE DONE AS REQUIRED FOR ENTRY INTO THE BUILDING AND EQUIPMENT ROOMS.
18. SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
19. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES.
20. BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR.
21. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS.
22. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
23. REMOVE AND RE-INSTALL EXISTING CEILING TILE AS REQUIRED. REPLACE ANY TILE DAMAGED OR SOILED DURING CONSTRUCTION.
24. PROVIDE PROPER PROTECTIVE MEASURES TO PROTECT EXISTING FURNITURE, CARPET AND FINISHES DURING THE COURSE OF CONSTRUCTION. TAKE CARE NOT TO DAMAGE EXISTING SURFACES. REPAIR TO MATCH EXISTING CONDITIONS AS REQUIRED.
25. SEAL HOLES IN WALLS, CEILINGS, FLOORS, ETC. TO MATCH EXISTING ADJACENT SURFACES WHERE EQUIPMENT, CONDUIT AND/OR PIPING ARE REMOVED.
26. EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER. DISPOSE OF ALL MATERIALS AND EQUIPMENT SHOWN TO BE REMOVED IN ACCORDANCE WITH LOCAL REGULATIONS.
27. CONTRACTOR SHALL COMPLY WITH "TRENCH SAFETY ACT" (FLORIDA STATUTE 553 PART III) AND OSHA STANDARD 29 CFR 1926.650 SUBPART P FOR ALL UTILITY TRENCHES IN EXCESS OF 5 FEET DEEP. CONTRACTOR SHALL INDICATE WITHIN HIS BID RESPONSE A REFERENCE TO THE TRENCH SAFETY STANDARD AND A SEPARATE LINE ITEM COST OF COMPLIANCE WITH STANDARD.

ABBREVIATIONS

ADS	ACOUSTICALLY DISTINGUISHED SPACE	HC	HORIZONTAL CROSS-CONNECTION
AFF	ABOVE FINISHED FLOOR	IC	INTERMEDIATE CROSS-CONNECTION
AFG	ABOVE FINISHED GRADE	IG	ISOLATED GROUND
AHJ	AUTHORITY HAVING JURISDICTION	IMC	INTERMEDIATE METALLIC CONDUIT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LAN	LOCAL AREA NETWORK
		LC	LUCENT CONNECTOR
ATS	AUTOMATIC TRANSFER SWITCH	MC	MAIN CROSS-CONNECTION
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
BF	BELOW RAISED COMPUTER FLOOR	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL	PDU	POWER DISTRIBUTION UNIT
CBB	COMMUNICATIONS BACKBOARD	PNL	ELECTRICAL PANEL
CIS	COMMON INTELLIGIBILITY SCALE	PTD	ELECTRIC POWER TRANSFER DEVICE
CLG	DEVICE LOCATED ON CEILING	PTZ	PAN-TILT-ZOOM
CMP	COMMUNICATIONS PLENUM CABLE (CABLE MARKING AS PER NFPA 70)	RE	REPLACE EXISTING DEVICE (AND COVER PLATE) AT THIS LOCATION
CNT	CONTRACTOR	REL	RELOCATE EXISTING DEVICE
DISC	DISCONNECT	SPD	SURGE PROTECTIVE DEVICE
DN	DOWN	TGB	TELECOMMUNICATIONS GROUNDING BAR
EF	ENTRANCE FACILITY	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
EIA	ELECTRONIC INDUSTRIES ALLIANCE		
EMI	ELECTROMAGNETIC INTERFERENCE	TP	TAMPER PROOF DEVICE
EMT	ELECTRICAL METALLIC TUBING	TR	TELECOMMUNICATIONS ROOM
ER	EXISTING DEVICE SHOWN AT RELOCATED POSITION	TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
EX	EXISTING DEVICE TO REMAIN	UPS	UNINTERRUPTIBLE POWER SUPPLY
G	GROUND	UTP	UNSHIELDED TWISTED-PAIR
GRC	GALVANIZED RIGID CONDUIT	WP	WEATHER PROOF

DRAWING INDEX

TS001	GENERAL NOTES & LEGENDS
TS002	SCHEDULES
TS100	SITE PLAN
TS111	FLOOR PLAN
TS501	DETAILS
TS502	DETAILS

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

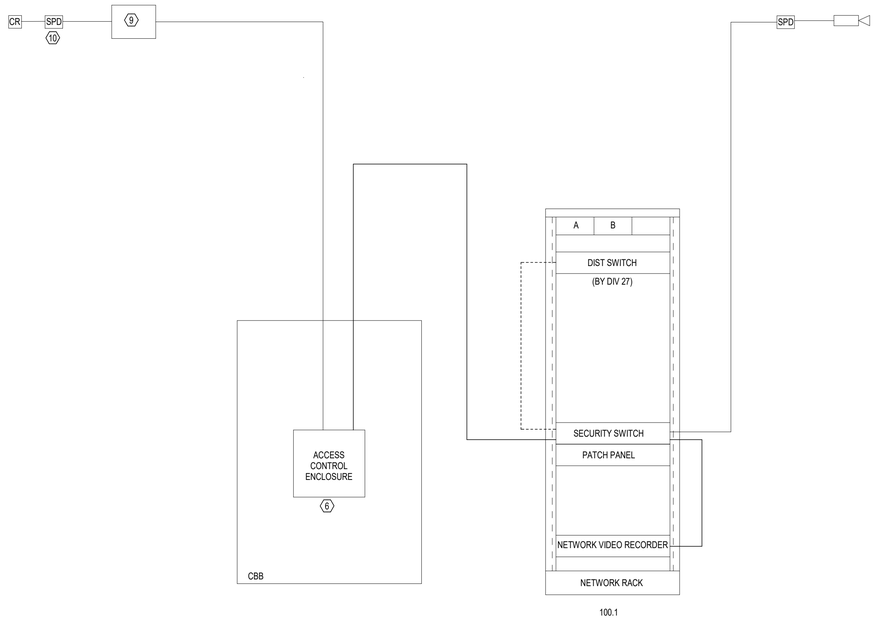
CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
GENERAL NOTES & LEGENDS

TS001

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SECURITY RISER KEYNOTES

6 SEE DETAILS C&F/ES5.1FOR MORE INFORMATION ON VIDEO SURVELLANCE AND ACCESS CONTROL ENCLOSURE.

9 MINI-NODE DOOR CONTROLLER. SEE DETAILS SHEET ES5.0 FOR MORE INFORMATION.

10 PROVIDE SURGE PROTECTIVE DEVICE. (DITEK; DTK-4LVLPCR) FOR EXTERIOR CARD READERS.

1 INTEGRATED SECURITY SYSTEM RISER

SCALE: N.T.S

NOTE:
ALL WORK BY THIS CONTRACTOR UNLESS NOTED OTHERWISE
SEE RESPONSIBILITY MATRIX FOR MORE INFORMATION ON
DIVISION OF WORK

SECURITY CAMERAS

DESIGNATION	TYPE	MINIMUM RESOLUTION (MP)	MINIMUM FRAME RATE (FPS)	# OF SENSORS	LENS TYPE	MINIMUM VIEW ANGLE (DEGREES)		MINIMUM DISTANCE (FT) FOR DORI STANDARD				WDR TYPE	INFRARED	ENCLOSURE TYPE	IMPACT RATED	VANDAL RESISTANT	POWER SUPPLY	OPTIONS	FUNCTIONS / ANALYTICS	BASIS OF DESIGN		
						HORIZONTAL	VERTICAL	DETECT	OBSERVE	RECOGNIZE	IDENTIFY									MANUFACTURER	MODEL	MOUNT
FC-2	360 FISHEYE	12	30	1	FIXED	183	183	117	49	25	12	STANDARD (> 80 dB)	YES	IP66	IK10	NO	PoE			PANASONIC	WV-S4 SERIES	WV-QJB501-W
MW-4	MULTI-SENSOR	6	15	4	FIXED	108	56	139	59	29	15	REAL-TIME DYNAMIC (>100 dB)	YES	IP66	IK10	NO	PoE+			PANASONIC	WV-S8 SERIES	WV-QWL501S-W
DC-2	DOME	5	30	1	FIXED	95	52	147	62	31	15	ENHANCED FORENSIC (> 130 dB)	YES	IP66	IK10	YES	PoE			PANASONIC	WV-S2 SERIES	

ACCESS CONTROL DOORS & GATES

DESIGNATION	TYPE	# OF DOORS	ADA COMPLIANT	MODE	FIRE ALARM RELAY	FAIL SAFE OR SECURE	LOCKING MECHANISM	DEVICES		FUNCTIONS / ALARMS	
								SECURED SIDE	UNSECURED SIDE	STANDARD	SPECIAL
CH-1-3	STANDARD (HINGED)				YES	SEE DIV 08 SPECS	ELECTRIFIED TRIM WITH RX	(1) POWER TRANSFER DEVICE, (1) DOOR CONTACT	(1) ACCESS CONTROL READER	F1, F3, F5, F6, A1, A3	
CHA-2-3	STANDARD (HINGED)				YES	SEE DIV 08 SPECS	ELECTRIFIED TRIM WITH RX	(2) POWER TRANSFER DEVICE, (2) DOOR CONTACT, (1) ADA PUSHBUTTON	(1) ACCESS CONTROL READER, (1) ADA PUSHBUTTON	F1, 0	
CHA-2-4	STANDARD (HINGED)				YES	SEE DIV 08 SPECS	MOTOR	(1) POWER TRANSFER DEVICE, (1) ADA PUSH BUTTON	(1) ADA PUSH BUTTON	F1,	

GENERAL NOTES:
1 REFER TO DIVISION 08 SPECIFICATIONS FOR ACTUAL DOOR HARDWARE DEVICES
2 REFER TO DIVISION 28 DETAILS EACH DOOR TYPE
3 EXTERIOR DOORS: PROVIDE INLINE SURGE PROTECTION DEVICE FOR POWER TRANSFERS
4 EXTERIOR DOORS: PROVIDE INLINE SURGE PROTECTION DEVICE FOR ACCESS CONTROL READERS

ALARMS:
A1 INVALID, LOST, OR STOLEN CREDENTIALS AT READER
A2 IRREVERSIBLE PROCESS AT EXIT DEVICE
A3 DOOR FORCED OPEN
A4 DOOR FORCED OPEN (WITH KEY OVERRIDE)
A5 DOOR HELD OPEN (COORDINATE TIME DELAY WITH OWNER)
A6 OPTICAL DETECTOR BLOCKED
A7 GATE FORCED OPEN
A8 GATE HELD OPEN (COORDINATE TIME DELAY WITH OWNER)
A9 GATE BARRIER ENCLOSURE TAMPER

FUNCTIONS:
F1 FIRE ALARM RELEASE
F2 DELAYED EGRESS
F3 REQUEST TO EXIT
F4 ELECTRIC DOGGING
F5 KEY OVERRIDE
F6 AUTHORIZED CREDENTIAL TRANSACTION (FOR ENTRY)
F7 AUTHORIZED CREDENTIAL TRANSACTION (FOR EXIT)
F8 AUTHORIZED CREDENTIAL TRANSACTION PLUS KEYPAD INPUT (FOR ENTRY)
F9 AUTOMATIC OPERATION FOR ADA BUTTON AFTER AUTHORIZED CREDENTIAL TRANSACTION (FOR ENTRY)
F10 AUTOMATIC OPERATION FOR ADA BUTTON AFTER AUTHORIZED CREDENTIAL TRANSACTION (FOR EXIT)
F11 AUTOMATIC OPERATION AFTER AUTHORIZED CREDENTIAL TRANSACTION (FOR ENTRY)
F12 AUTOMATIC OPERATION AFTER AUTHORIZED CREDENTIAL TRANSACTION PLUS KEYPAD INPUT (FOR ENTRY)
F13 FREE MODE (UNLOCKED) DURING SCHEDULED HOURS. CONTROLLED MODE (LOCKED) AFTER SCHEDULED HOURS.

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

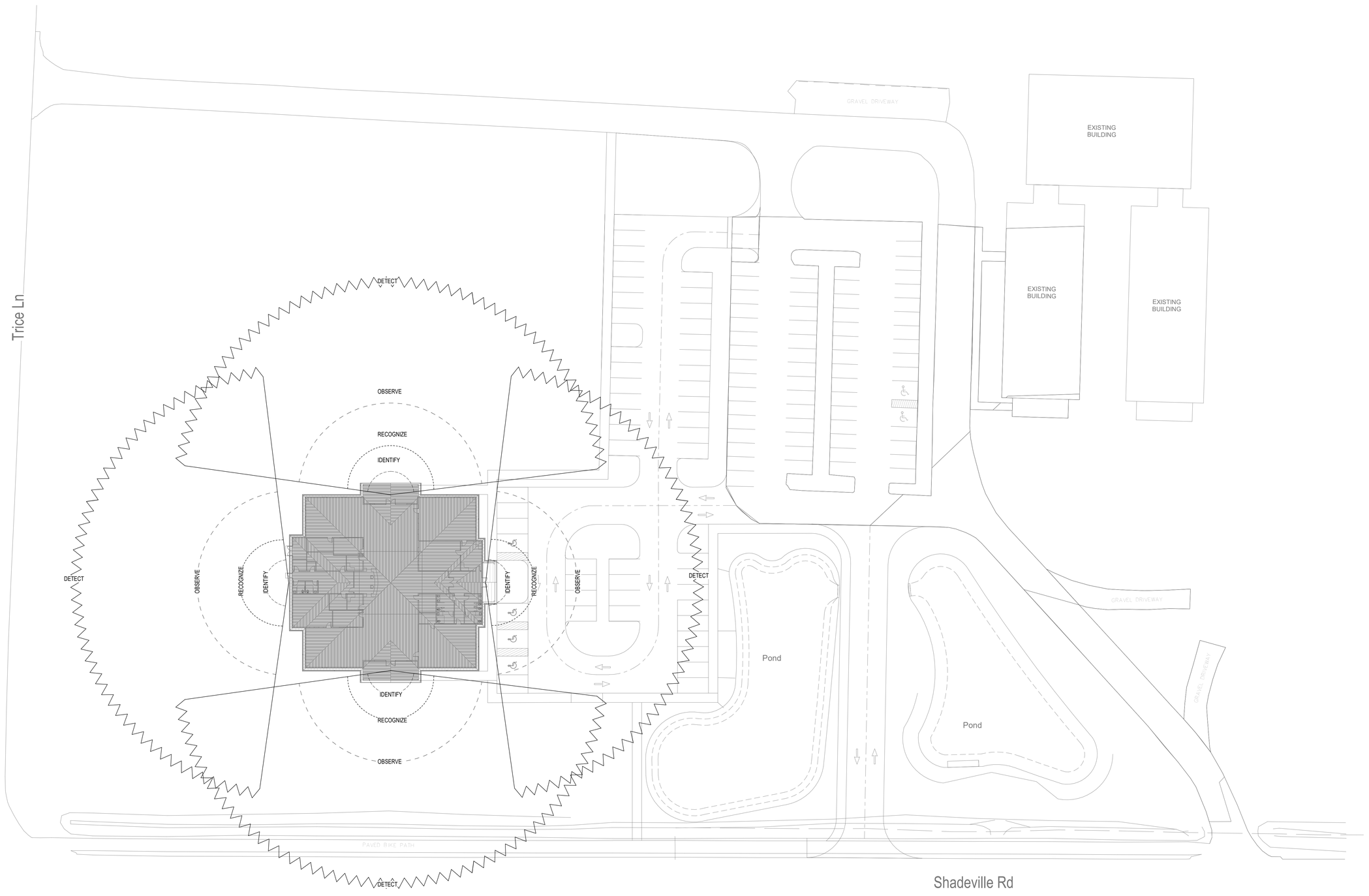
CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
SCHEDULES

TS002

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SITE PLAN - SECURITY

Scale: 1" = 30'-0"

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CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

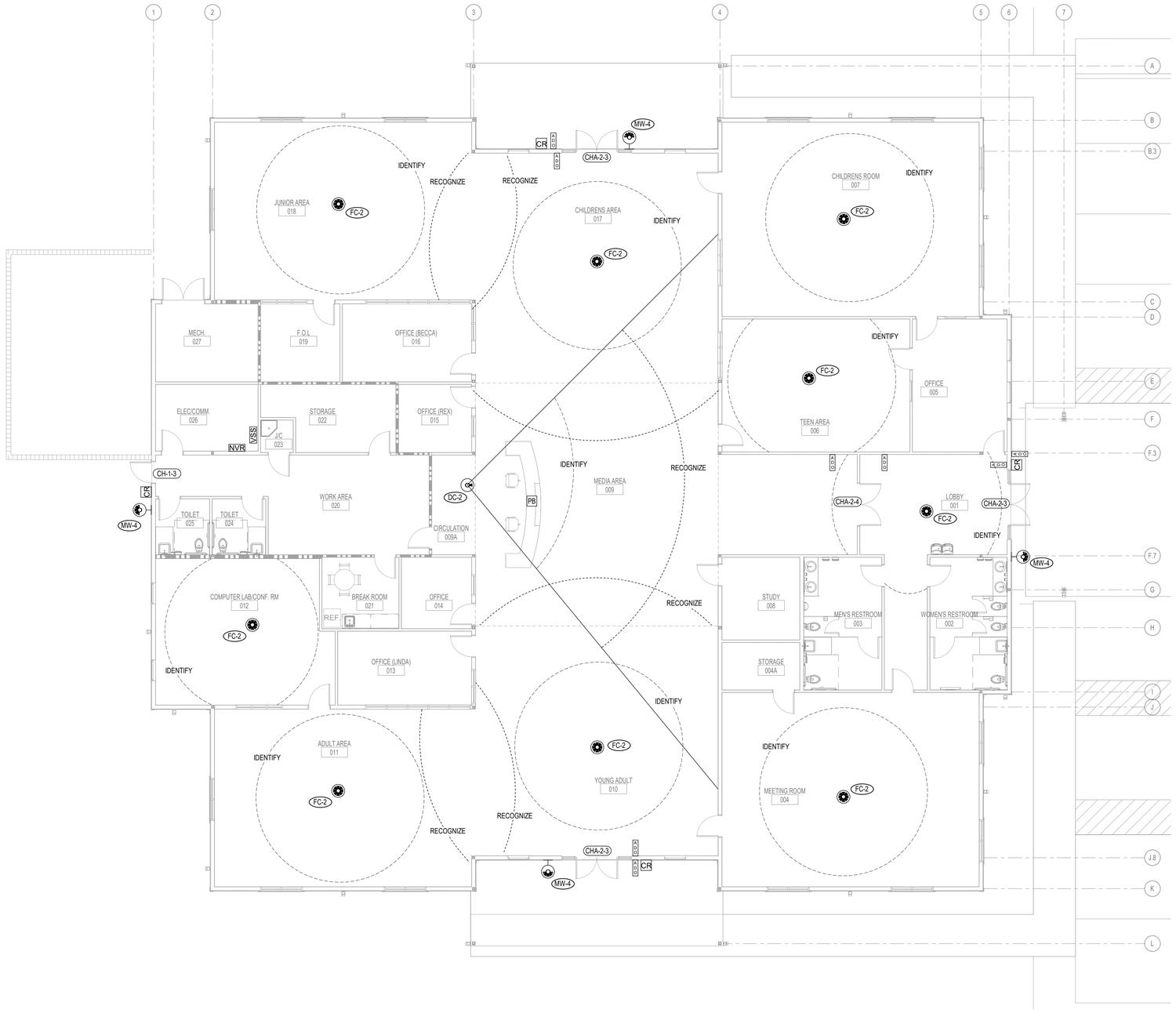
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SITE PLAN

TS100

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FLOOR PLAN - SECURITY

Scale: 1/8" = 1'-0"

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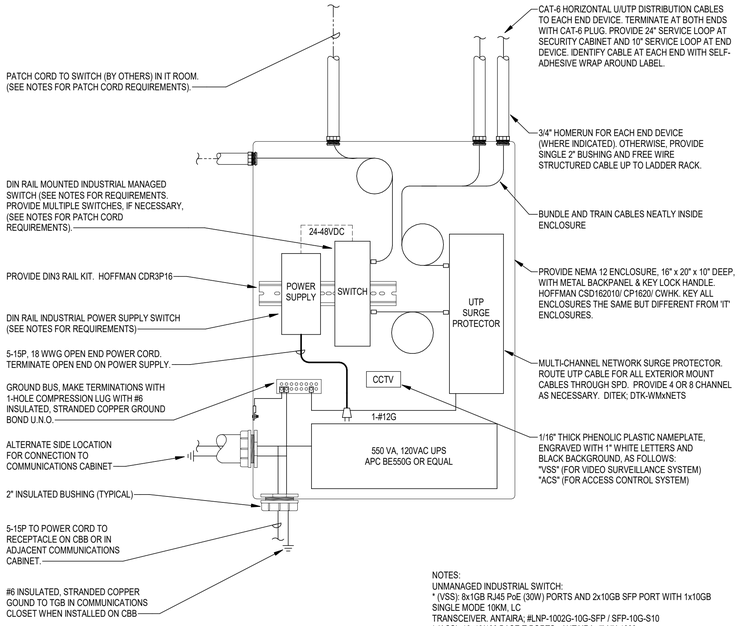
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FLOOR PLAN

TS111

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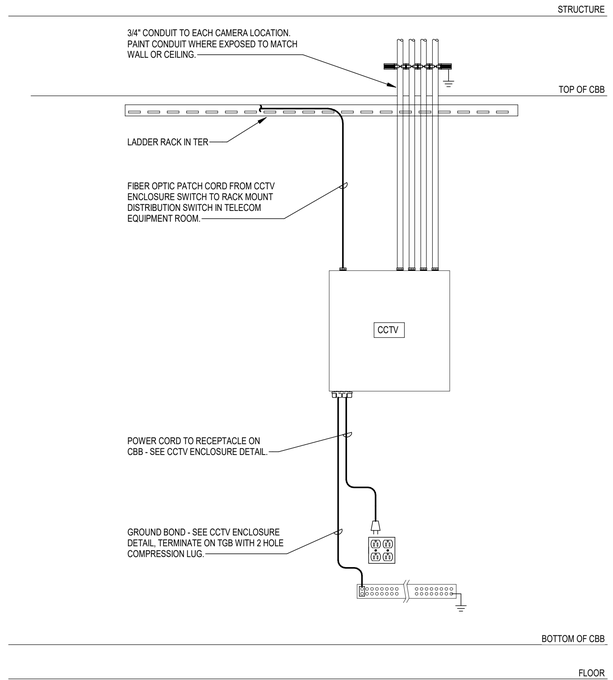


NOTES:
UNMANAGED INDUSTRIAL SWITCH:
* (VSS): 8x1GB RJ45 PoE (30W) PORTS AND 2x10GB SFP PORT WITH 1x10GB SINGLE MODE 10KM, LC TRANSCEIVER. ANTAIRA; #LNP-1002G-10G-SFP / SFP-10G-S10
* (ACS): 16x10/100 BASE-T PORTS. ANTAIRA; #LNX-1600

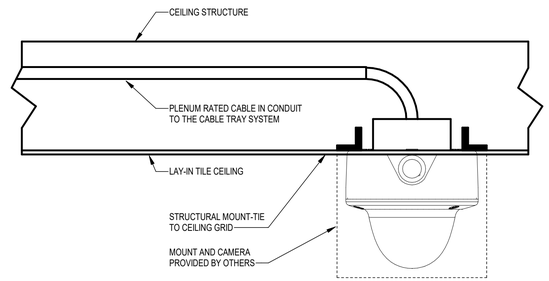
POWER SUPPLY:
* (VSS): 240W, 48VDC. MEAN WELL; #SDR-240-48
* (ACS): 10W, 24VDC. ANTAIRA; #MDR-10-24

PATCH CORD:
* (VSS): SINGLE MODE, OS2, OFNP FIBER OPTIC WITH LC TRANSCEIVER (ANTAIRA; SFP-10G-S10)
* (ACS): CAT-6

C SECURITY NETWORK ENCLOSURE N.T.S.

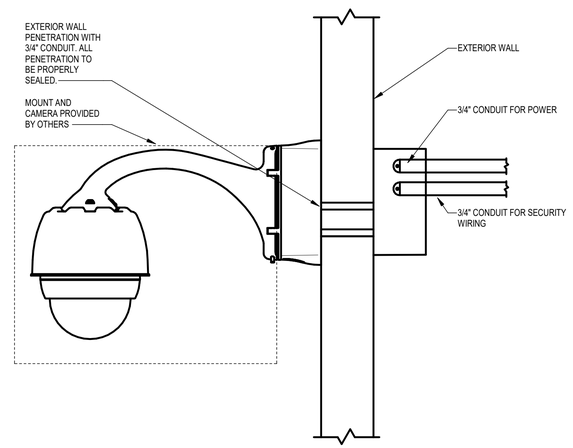


A CCTV ENCLOSURE IN TELECOMMUNICATIONS CLOSET N.T.S.



NOTES:
1.) ELECTRICIAN TO PROVIDE CONDUIT AND BACKBOXES.

D CEILING SURFACE STATIONARY DOME CAMERA ENCLOSURE N.T.S.



NOTES:
1.) ELECTRICIAN TO PROVIDE CONDUIT AND BACKBOXES.

B WALL MOUNTED PTZ EXTRIOR DOME CAMERA N.T.S.

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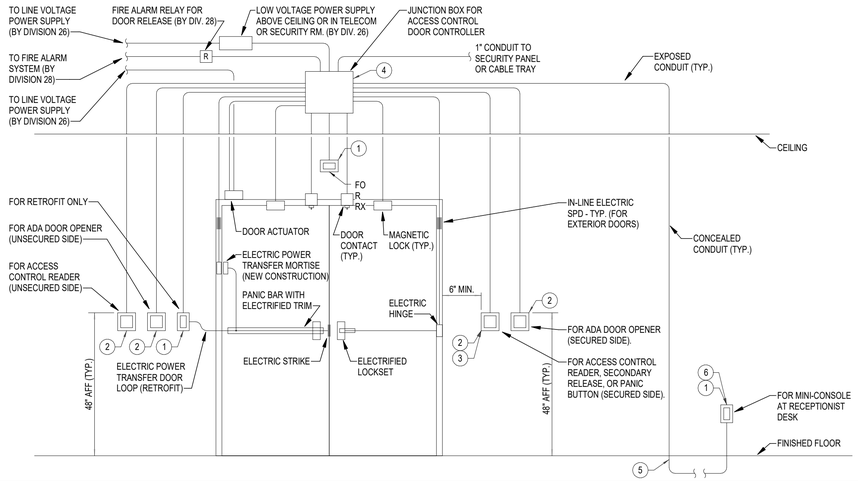
CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
DETAILS

TS501

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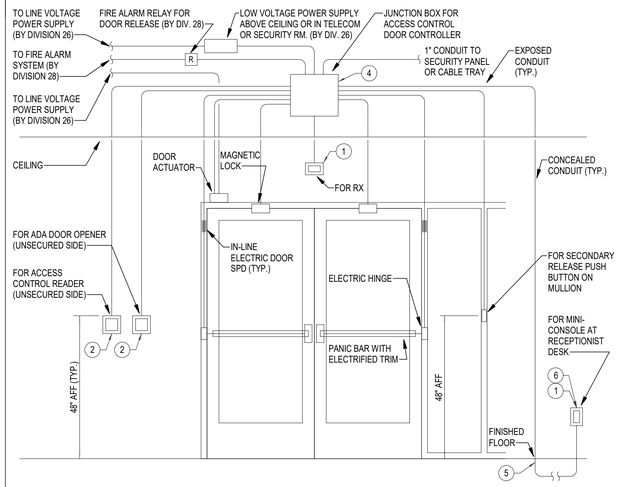
GENERAL NOTES:

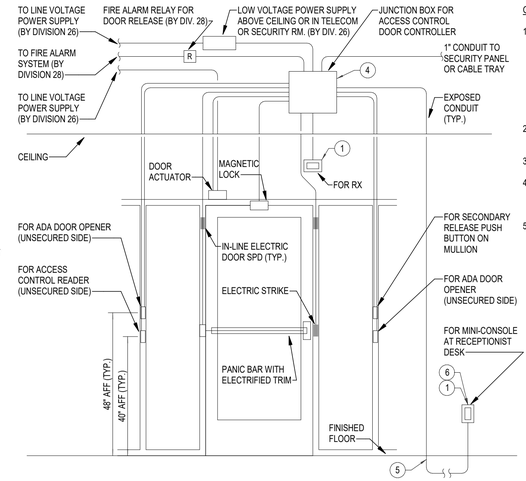
1. THIS DIAGRAM IS NOT DRAWN TO SCALE AND IS A GENERAL REPRESENTATION OF ROUGH-IN REQUIREMENTS FOR VARIOUS TYPES OF ACCESS CONTROL COMPONENTS. VARIOUS COMBINATIONS OF DEVICES MAY BE USED ON DIFFERENT SECURITY DOOR TYPES. COORDINATE INSTALLATION OF ALL ACCESS CONTROL DEVICES WITH DIVISION 08 DOOR HARDWARE SCHEDULE.
2. ALL CONDUITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
3. SEE SPECIFICATIONS FOR CABLE TYPE AND SIZE.
4. LOCKING MECHANISM MAY OR MAY NOT HAVE INTEGRAL REQUEST TO EXIT DEVICE. SEE DOOR SCHEDULE.
5. ALL MANUAL OPERATED CONTROLS (ACCESS CONTROL READERS, ADA DOOR OPENERS, ETC.) SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SWING, IN THE OPEN POSITION.

KEY NOTES:

1. 1-GANG ELECTRICAL BOX WITH PLASTER RING.
2. 2-GANG ELECTRICAL BOX WITH 1-GANG PLASTER RING.
3. PROVIDE SEPARATE ELECTRICAL BOX FOR EACH TYPE OF DEVICE.
4. COORDINATE ELECTRICAL BOX SIZE WITH ACTUAL EQUIPMENT TO BE PROVIDED.
5. CONDUIT FOR MINI-CONSOLE MAY BE ROUTED FROM ABOVE OR BELOW.
6. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.

A **ACCESS CONTROL DOOR ROUGH-IN DETAIL - DOUBLE DOORS (SAME FOR SINGLE DOORS)** **N.T.S.**





GENERAL NOTES:

1. THIS DIAGRAM IS NOT DRAWN TO SCALE AND IS A GENERAL REPRESENTATION OF ROUGH-IN REQUIREMENTS FOR VARIOUS TYPES OF ACCESS CONTROL COMPONENTS. VARIOUS COMBINATIONS OF DEVICES MAY BE USED ON DIFFERENT SECURITY DOOR TYPES. COORDINATE INSTALLATION OF ALL ACCESS CONTROL DEVICES WITH DIVISION 08 DOOR HARDWARE SCHEDULE.
2. ALL CONDUITS SHALL BE 3/4" UNLESS NOTED OTHERWISE.
3. SEE SPECIFICATIONS FOR CABLE TYPE AND SIZE.
4. LOCKING MECHANISM MAY OR MAY NOT HAVE INTEGRAL REQUEST TO EXIT DEVICE. SEE DOOR SCHEDULE.
5. ALL MANUAL OPERATED CONTROLS (ACCESS CONTROL READERS, ADA DOOR OPENERS, ETC.) SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SWING, IN THE OPEN POSITION.

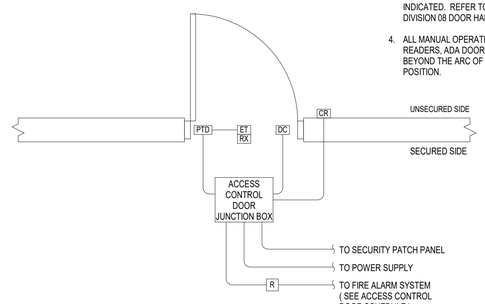
KEY NOTES:

1. 1-GANG ELECTRICAL BOX WITH PLASTER RING.
2. 2-GANG ELECTRICAL BOX WITH 1-GANG PLASTER RING.
3. PROVIDE SEPARATE ELECTRICAL BOX FOR EACH TYPE OF DEVICE.
4. COORDINATE ELECTRICAL BOX SIZE WITH ACTUAL EQUIPMENT TO BE PROVIDED.
5. CONDUIT FOR MINI-CONSOLE MAY BE ROUTED FROM ABOVE OR BELOW.
6. COORDINATE EXACT MOUNTING LOCATION WITH OWNER.

B **ACCESS CONTROL DOOR ROUGH-IN DETAIL - DOUBLE AND SINGLE STOREFRONT DOORS** **N.T.S.**

GENERAL NOTES:

1. SEE ACCESS CONTROL DOOR ELECTRICAL ROUGH-IN DETAILS.
2. THIS DIAGRAM IS NOT DRAWN TO SCALE AND IS A GENERAL REPRESENTATION OF THE COMPONENTS, LOCATIONS AND ASSOCIATED CONNECTIONS. COORDINATE ACTUAL LOCATIONS AND CONNECTIONS WITH PLANS AND APPROVED SHOP DRAWINGS.
3. DOOR SWING AND / OR HANDING MAY BE DIFFERENT THAN INDICATED. REFER TO ARCHITECTURAL PLANS AND DIVISION 08 DOOR HARDWARE SCHEDULE.
4. ALL MANUAL OPERATED CONTROLS (ACCESS CONTROL READERS, ADA DOOR OPENERS, ETC.) SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SWING, IN THE OPEN POSITION.

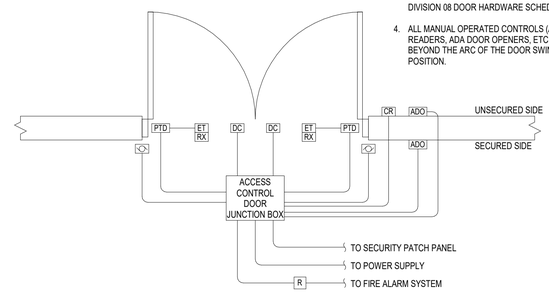


SINGLE DOOR, CONTROLLED ENTRY

CH-1-3 **ACCESS CONTROL DOOR DIAGRAM - SINGLE DOOR** **N.T.S.**

GENERAL NOTES:

1. SEE ACCESS CONTROL DOOR ELECTRICAL ROUGH-IN DETAILS.
2. THIS DIAGRAM IS NOT DRAWN TO SCALE AND IS A GENERAL REPRESENTATION OF THE COMPONENTS, LOCATIONS AND ASSOCIATED CONNECTIONS. COORDINATE ACTUAL LOCATIONS AND CONNECTIONS WITH PLANS AND APPROVED SHOP DRAWINGS.
3. DOOR SWING AND / OR HANDING MAY BE DIFFERENT THAN INDICATED. REFER TO ARCHITECTURAL PLANS AND DIVISION 08 DOOR HARDWARE SCHEDULE.
4. ALL MANUAL OPERATED CONTROLS (ACCESS CONTROL READERS, ADA DOOR OPENERS, ETC.) SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SWING, IN THE OPEN POSITION.

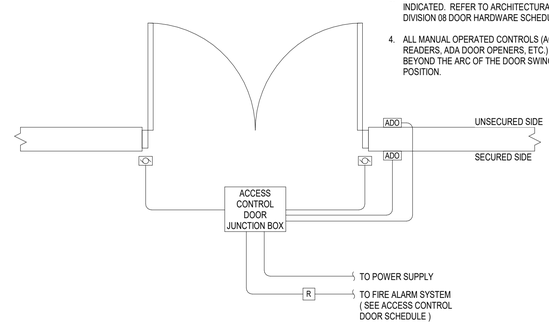


DOUBLE DOOR, CONTROLLED ENTRY, ADA

CH-2-3 **ACCESS CONTROL DOOR DIAGRAM - DOUBLE DOOR** **N.T.S.**

GENERAL NOTES:

1. SEE ACCESS CONTROL DOOR ELECTRICAL ROUGH-IN DETAILS.
2. THIS DIAGRAM IS NOT DRAWN TO SCALE AND IS A GENERAL REPRESENTATION OF THE COMPONENTS, LOCATIONS AND ASSOCIATED CONNECTIONS. COORDINATE ACTUAL LOCATIONS AND CONNECTIONS WITH PLANS AND APPROVED SHOP DRAWINGS.
3. DOOR SWING AND / OR HANDING MAY BE DIFFERENT THAN INDICATED. REFER TO ARCHITECTURAL PLANS AND DIVISION 08 DOOR HARDWARE SCHEDULE.
4. ALL MANUAL OPERATED CONTROLS (ACCESS CONTROL READERS, ADA DOOR OPENERS, ETC.) SHALL BE LOCATED BEYOND THE ARC OF THE DOOR SWING, IN THE OPEN POSITION.



DOUBLE DOOR, ADA

CH-2-4 **ACCESS CONTROL DOOR DIAGRAM - DOUBLE DOOR** **N.T.S.**

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H2E PROJECT No.24/02

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
DETAILS

TS502

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FIRE ALARM - DESIGN DATA

BUILDING INFORMATION			
	TYPE		NEW
	OCCUPANCY CLASSIFICATION (NOTE 1)		BUSINESS
	FULLY SPRINKLERED BUILDING		NO
	HIGH RISE BUILDING		NO
FIRE ALARM SYSTEM			
	TYPE		ADDRESSABLE
	QTY OF ZONES	#	N/A
	PATHWAY CLASS DESIGNATION		CLASS B
	PATHWAY SURVIVABILITY		LEVEL 1
	EVACUATION SIGNAL		GENERAL EVACUATION
	AUDIBLE NOTIFICATION APPLIANCES		SPEAKERS
EMERGENCY COMMUNICATION SYSTEMS			
	MASS NOTIFICATION TYPE		NONE
	VOICE EVACUATION		YES
	TWO-WAY, IN-BUILDING WIRED		NO
	TWO-WAY, RADIO ENHANCEMENT (NOTE 2)		NO
	TWO-WAY, AREA OF REFUGE		NO
	TWO-WAY, ELEVATOR EMERGENCY		NO
	TWO-WAY, STAIRWAY		NO
MINIMUM REQUIRED SECONDARY POWER			
	SECONDARY POWER SUPPLY		BATTERIES
	REQUIRED DURATION		24 HRS (NON-ALARM) + 15 MIN (ALARM)
	SAFETY MARGIN (BATTERIES)	%	20

NOTES:
1 PRINCIPAL OCCUPANCY CLASSIFICATION IS PER NFPA 1 AND NFPA 101. SEE LIFE SAFETY PLANS FOR MORE INFORMATION.

AUDIBLE NOTIFICATION REQUIREMENTS

SPACE TYPE	SOUND LEVEL ABOVE AVERAGE AMBIENT (dB)	SOUND LEVEL ABOVE MAX. SOUND LEVEL (dB)	MINIMUM SOUND LEVEL (dBA)	MEASURED LOCATION	SIGNAL TYPE
GENERAL	15	5	N/A	5 FT. AFF	3-PULSE TEMPORAL

NOTES:
1. TOTAL SOUND PRESSURE LEVEL SHALL NOT EXCEED 110 dB.
2. SEE TABLE "AVERAGE AMBIENT SOUND LEVELS" FOR TYPICAL AMBIENT SOUND LEVELS.

AVERAGE AMBIENT SOUND LEVELS

AREA	AVERAGE AMBIENT SOUND LEVEL (dBA)
BUSINESS OCCUPANCIES	55
EDUCATIONAL OCCUPANCIES	45
MECHANICAL ROOMS	85
PLACES OF ASSEMBLY	55
STORAGE OCCUPANCIES	30

NOTES:
1. THE SOUND LEVELS ABOVE ARE INTENDED FOR DESIGN GUIDANCE PURPOSES.
2. ACTUAL SOUND LEVEL MEASUREMENTS SHALL BE USED FOR TESTING AND COMPLIANCE.

SPEECH INTELLIGIBILITY REQUIREMENTS

SPACE TYPE	MINIMUM INTELLIGIBILITY VALUE	AVERAGE INTELLIGIBILITY VALUE
GENERAL	0.45 STI (0.65 CIS)	0.50 STI (0.70 CIS)

NOTES:
1. 90% OF ALL MEASUREMENT LOCATIONS WITHIN EACH ACOUSTICALLY DISTINGUISHED SPACE SHALL MEET THE MINIMUM AND AVERAGE INTELLIGIBILITY VALUE.

CEILING-MOUNTED VISIBLE APPLIANCE SPACING

MAXIMUM ROOM SIZE (FT. x FT.)	MAXIMUM LENS HEIGHT (FT.)	MINIMUM REQUIRED LIGHT OUTPUT (CD)
20 x 20	10	15
30 x 30		30
40 x 40		60
44 x 44		75
20 x 20	20	30
30 x 30		45
44 x 44		75
46 x 46		80
20 x 20	30	55
30 x 30		75
50 x 50		95
53 x 53		110
55 x 55		115
59 x 59		135
63 x 63		150
68 x 68		177
70 x 70		185

NOTES:
1. MINIMUM REQUIRED LIGHT OUTPUT BASED ON ONE LIGHT PER ROOM.
2. MAXIMUM LENS HEIGHT DOES NOT PRECLUDE MOUNTING LENS AT LOWER HEIGHTS.

WALL-MOUNTED VISIBLE APPLIANCE SPACING

MAXIMUM ROOM SIZE (FT. x FT.)	MINIMUM REQUIRED LIGHT OUTPUT (CD)
20 x 20	15
28 x 28	30
30 x 30	34
40 x 40	60
45 x 45	75
50 x 50	94
54 x 54	110
55 x 55	115

NOTES:
1. MINIMUM REQUIRED LIGHT OUTPUT BASED ON ONE LIGHT PER ROOM.

FIRE ALARM CONTROL UNITS & PANELS

FAAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL

FIRE ALARM INTERFACE AND SUPERVISORY DEVICES

AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
AIO#	ADDRESSABLE INPUT/OUTPUT MODULE ("#" INDICATES TOTAL NUMBER OF INPUTS AND OUTPUTS, 2 IF OMITTED)
ELCR	EMERGENCY LIGHTING CONTROL RELAY WITH FIRE ALARM CONTACT INTERFACE. (PROVIDED BY DIV 26) PROVIDE AOM AT EACH LOCATION.
LTS	EMERGENCY LIGHTING TRANSFER SWITCH WITH FIRE ALARM CONTACT INTERFACE (PROVIDED BY DIV 26). PROVIDE AOM AT EACH LOCATION.
	SOLENOID VALVE TO BE MONITORED BY FIRE ALARM SYSTEM

FIRE ALARM INITIATING DEVICES

F	MANUAL FIRE ALARM PULL STATION
S X	SYSTEM SMOKE DETECTOR - CLG. MOUNT ("X" = TYPE, PHOTOELECTRIC IF OMITTED). AS = AIR SAMPLING BR = BEAM RECEIVER BT = BEAM TRANSMITTER PA = SERVING PRE-ACTION SPRINKLER SYSTEM
S X	SYSTEM SMOKE DETECTOR - WALL MOUNT ("X" = TYPE, PHOTOELECTRIC IF OMITTED). AS = AIR SAMPLING BR = BEAM RECEIVER BT = BEAM TRANSMITTER PA = SERVING PRE-ACTION SPRINKLER SYSTEM
	SYSTEM SMOKE DETECTOR - DUCT MOUNT
SS	SINGLE STATION SMOKE DETECTOR - DUCT MOUNT (120-VOLT OPERATION WITH TRANSFORMER, AUXILIARY CONTACTS, REMOTE LED, AND AUDIBLE ALARM DEVICE)
SD D	SMOKE DAMPER WITH SMOKE DETECTOR. PROVIDE STATIC DETECTOR UNLESS SUB-LETTER 'D' IS SHOWN INDICATING A DYNAMIC DETECTOR. (SEE "FIRE ALARM NOTES" ON THIS SHEET FOR COORDINATION OF WORK WITH OTHER TRADES).
FSD D	COMBINATION FIRE / SMOKE DAMPER WITH SMOKE DETECTOR. PROVIDE STATIC DETECTOR UNLESS SUB-LETTER 'D' IS SHOWN INDICATING A DYNAMIC DETECTOR. (SEE "FIRE ALARM NOTES" ON THIS SHEET FOR COORDINATION OF WORK WITH OTHER TRADES).
CO	SYSTEM CARBON MONOXIDE DETECTOR - CLG. MOUNT. ADDRESSABLE WITH SOUNDER BASE. SOUND SHALL BE A FOUR-PULSE TEMPORAL PATTERN AND DISTINCT FROM OTHER ALARMS.

FIRE ALARM NOTIFICATION APPLIANCES

F#	FIRE ALARM VISUAL NOTIFICATION DEVICE - CEILING MOUNT. ("#" INDICATES CANDELA RATING. 95 CD IF OMITTED). COLOR: WHITE
F#	FIRE ALARM VISUAL NOTIFICATION DEVICE - WALL MOUNT. ("#" INDICATES CANDELA RATING. 95 CD IF OMITTED). COLOR: WHITE
F	FIRE ALARM AUDIBLE NOTIFICATION DEVICE - WALL MOUNT. COLOR: WHITE
F#	FIRE ALARM AUDIBLE / VISUAL NOTIFICATION DEVICE - CEILING MOUNT. ("#" INDICATES CANDELA RATING. 95 CD IF OMITTED). COLOR: WHITE
F#	FIRE ALARM AUDIBLE / VISUAL NOTIFICATION DEVICE - WALL MOUNT. ("#" INDICATES CANDELA RATING. 95 CD IF OMITTED). COLOR: WHITE
F#	FIRE ALARM AUDIBLE / VISUAL NOTIFICATION DEVICE - WALL MOUNT. ("#" INDICATES CANDELA RATING. 95 CD IF OMITTED). COLOR: WHITE

MISCELLANEOUS

	DENOTES WALL MOUNTED DEVICE
— — — — —	SMOKE RATED WALL
——— — ———	1 HOUR FIRE RATED WALL
—— — — ——	2 HOUR FIRE RATED WALL

FIRE ALARM NOTES

1. INSTALL ALL WORK IN ACCORDANCE WITH ALL CODES, ORDINANCES, RULES, AND REGULATIONS OF THE AUTHORITY HAVING JURISDICTION AT THIS SITE. WHERE CONFLICTS OCCUR BETWEEN CODES AND THE CONSTRUCTION DOCUMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN.
2. THE CONTRACTOR SHALL SUBMIT A SEPARATE PERMIT APPLICATION AND PLANS FOR REVIEW PER NFPA 1, §1.14.1 AND §1.13.2, FLORIDA 2015 EDITION.
3. ALL DUCT SMOKE DETECTORS SHALL BE FURNISHED BY DIVISION 29, INSTALLED IN THE DUCT BY DIVISION 23, AND WIRED TO DAMPER ACTUATOR AND FIRE ALARM SYSTEM BY DIVISION 29. COORDINATE INSTALLATION WITH DIVISION 23. DUCT SMOKE DETECTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SEE HVAC DRAWINGS FOR LOCATIONS OR INSTALL WHERE DIRECTED BY THE ENGINEER. EXACT PLACEMENT SHALL BE APPROVED BY THE FIRE ALARM SYSTEM SUPPLIER.
4. PROVIDE REMOTE TEST AND ALARM INDICATORS FOR DUCT DETECTORS LOCATED IN AREAS NOT READILY VISIBLE AND ACCESSIBLE ABOVE CEILINGS, OR AS INDICATED ON THE DRAWINGS.
5. SMOKE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS ARE PROVIDED BY DIVISION 23.
6. LIGHT FIXTURES AND HVAC DIFFUSERS TAKE PRECEDENCE. ADD ADDITIONAL DETECTORS AND NOTIFICATION APPLIANCES AS REQUIRED TO MAINTAIN COVERAGE REQUIREMENTS.
7. VISIBLE NOTIFICATION APPLIANCES WITHIN THE SAME ROOM OR WITHIN THE SAME FIELD OF VIEW SHALL FLASH IN SYNCHRONIZATION PER NFPA 72.
8. ALL EXTERIOR DEVICES SHALL HAVE WEATHERPROOF ENCLOSURES AND BE RATED IN ACCORDANCE WITH N.E.C., WHETHER INDICATED ON THE PLANS OR NOT. THE INSTALLER SHALL VERIFY ALL EXTERIOR DEVICES PRIOR TO ORDERING MATERIALS.
9. ALARM, SUPERVISORY, AND TROUBLE SIGNALS SHALL BE AUTOMATICALLY TRANSMITTED TO AN APPROVED CENTRAL STATION, REMOTE SUPERVISING STATION, OR PROPRIETARY SUPERVISING STATION AS DEFINED BY NFPA 72 OR, WHEN APPROVED BY THE BUILDING OFFICIAL, SHALL SOUND AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.
10. PROVIDE SURGE PROTECTIVE DEVICES IN THE FACP FOR ALL SUPERVISED CIRCUITS.
11. ALL FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED.
12. ALL SPLICES SHALL BE MADE WITH CRIMP CONNECTORS. NO WIRE NUTS SHALL BE USED.
13. ALL MAIN JUNCTION BOXES AND TERMINAL CABINETS SHALL BE PROVIDED WITH TERMINAL BLOCKS.
14. PROVIDE A HINGED, CLEAR PLASTIC SHIELD FOR EACH PULL STATION. LIFTING SHIELD SHALL INITIATE LOCAL AUDIBLE ALARM.
15. PROVIDE PROTECTION FOR FIRE ALARM DEVICES SUBJECT TO PHYSICAL DAMAGE. LOCATIONS INCLUDE MECHANICAL ROOMS, ELECTRICAL ROOMS, EQUIPMENT ROOMS AND STORAGE ROOMS.
16. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.
17. PROVIDE PROTECTION FOR FIRE ALARM DEVICES SUBJECT TO PHYSICAL DAMAGE. LOCATIONS INCLUDE MECHANICAL ROOMS, ELECTRICAL ROOMS, EQUIPMENT ROOMS AND STORAGE ROOMS.
18. THE CONSTRUCTORS SHALL CERTIFY AND TAG THE SYSTEM AFTER ALL MODIFICATIONS ARE MADE AND PRIOR TO SUBSTANTIAL COMPLETION.
19. PROVIDE A HINGED, CLEAR PLASTIC SHIELD FOR EACH PULL STATION. LIFTING SHIELD SHALL INITIATE LOCAL AUDIBLE ALARM.
20. PROVIDE PROTECTION FOR FIRE ALARM DEVICES SUBJECT TO PHYSICAL DAMAGE. LOCATIONS INCLUDE MECHANICAL ROOMS, ELECTRICAL ROOMS, EQUIPMENT ROOMS AND STORAGE ROOMS.
21. THE CONSTRUCTOR SHALL CERTIFY AND TAG THE SYSTEM AFTER ALL MODIFICATIONS ARE MADE AND PRIOR TO SUBSTANTIAL COMPLETION.
22. THE CONTRACTOR AND THE PPD SYSTEMS ELECTRONICS SHOP SHALL TEST THE FIRE ALARM SYSTEM BEFORE ANY RENOVATION OR MODIFICATION IS MADE. ANY PART OF THE SYSTEM NOT WORKING PROPERLY SHALL BE NOTED OR REPAIRED BEFORE ANY CONSTRUCTION BEGINS.

APPLICABLE CODES

PERFORM WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND ANY APPLICABLE STATUTES, ORDINANCES, CODES, AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

1. OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (OSHA).

2. NATIONAL FIRE CODES
   a. NFPA 1 — UNIFORM FIRE CODE - 2021 (FLORIDA EDITION)
   b. NFPA 70 — NATIONAL ELECTRICAL CODE - 2020
   c. NFPA 72 — NATIONAL FIRE ALARM AND SIGNALING GUIDE - 2019
   d. NFPA 101 — LIFE SAFETY CODE - 2021 (FLORIDA EDITION)

3. FLORIDA BUILDING CODE, 2023 EDITION [INTERNATIONAL BUILDING CODE, 2024 EDITION]
   a. BUILDING CODE
   b. ENERGY CONSERVATION CODE
   c. FIRE CODE
   d. ACCESSIBILITY CODE

4. FLORIDA STATUTES
   a. CHAPTER 471 — ENGINEERING
   b. CHAPTER 533.80 — BUILDING CONSTRUCTION STANDARDS; FLORIDA BUILDING CODE - ENFORCEMENT

5. FLORIDA ADMINISTRATIVE CODE
   a. CHAPTER 9B-7 — FLORIDA BUILDING COMMISSION HANDICAPPED ACCESSIBILITY STANDARDS
   b. CHAPTER 61G15-33 — RESPONSIBILITY RULES OF PROFESSIONAL ENGINEERS CONCERNING THE DESIGN OF ELECTRICAL SYSTEMS
   c. CHAPTER 69A-3 — FIRE PREVENTION - GENERAL PROVISIONS
   d. CHAPTER 69A-60 — THE FLORIDA FIRE PREVENTION CODE

RESOLVE, IN WRITING, ANY CODE VIOLATION DISCOVERED IN CONTRACT DOCUMENTS WITH THE ENGINEER PRIOR TO BIDDING. AFTER AWARD OF THE CONTRACT, MAKE ANY CORRECTION OR ADDITION NECESSARY FOR COMPLIANCE WITH APPLICABLE CODES AT NO ADDITIONAL COST TO OWNER.

THE CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, AND DRAWINGS REQUIRED TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS.

WHERE THERE IS CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, THE CODES SHALL GOVERN, EXCEPT WHERE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE MORE STRINGENT.

SYSTEM LAYOUT DOCUMENT REQUIREMENTS

1. THESE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS ARE INTENDED TO BE COMPLIANT WITH RULE 61G15-32.008, FLORIDA ADMINISTRATIVE CODE, AND REPRESENT THE DESIGN INTENT FOR THE FIRE ALARM SYSTEM.
   a. THE SCOPE OF THE PROJECT IS ABOVE THE THRESHOLD REQUIREMENTS FOR MANDATORY USE OF PROFESSIONAL ENGINEERING SERVICES, AS DEFINED IN FLORIDA BUILDING CODE 105.3.1.2. THEREFORE, THESE DOCUMENTS COMPLY WITH THE REQUIREMENTS OF RULE 61G15-32.008(4) "A" THROUGH "O", F.A.C.
   b. THE FIRE ALARM SYSTEM CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FIRE ALARM SYSTEM FOR THE ENTIRE BUILDING APPROVED BY THE APPLICABLE NFPA CODES AND BY THE AUTHORITY HAVING JURISDICTION.
2. ENGAGE EITHER A LICENSED CONTRACTOR OR A QUALIFIED PROFESSIONAL ENGINEER TO PROVIDE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS (AS DEFINED BY 61G15-32.002, F.A.C.) FOR THE FIRE ALARM SYSTEMS BASED UPON THE ENGINEERING DIRECTION (PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA) PROVIDED IN THE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.
   a. IF PREPARED BY A LICENSED CONTRACTOR, THESE DOCUMENTS DO NOT REQUIRE THE SEAL OF A LICENSED ENGINEER.
   b. IF PREPARED BY A LICENSED ENGINEER, THESE DOCUMENTS ARE ENGINEERING DOCUMENTS AND THEREFORE REQUIRE SEALING BY A LICENSED ENGINEER.
3. PRIOR TO INSTALLATION, THE FIRE ALARM CONTRACTOR SHALL PROVIDE FIRE PROTECTION SYSTEM LAYOUT DOCUMENTS, INCLUDING DESIGN CALCULATIONS, SUBMITTED TO THE ENGINEER OF RECORD AND AUTHORITY HAVING JURISDICTION, INCLUDING THE FOLLOWING AS APPLICABLE, BUT NOT LIMITED TO:
   a. FIRE ALARM SYSTEM WORKING PLANS, INCLUDING FIRE ALARM SYSTEM LAYOUT, DEVICE IDENTIFICATION, AND MOUNTING HEIGHT ELEVATIONS.
   b. FIRE ALARM SYSTEM RISER DIAGRAM.
   c. SEQUENCE OF OPERATION IN AN INPUT/OUTPUT MATRIX FORM OR NARRATIVE.
   d. BATTERY CAPACITY AND DE-RATING CALCULATIONS.
   e. VOLTAGE DROP CALCULATIONS FOR NOTIFICATION APPLIANCE CIRCUITS.
   f. LINE RESISTANCE CALCULATIONS.
   g. DESIGN CALCULATIONS FOR SELECTING THE SPACING AND SENSITIVITY OF DETECTION DEVICES.
   h. DESIGN CALCULATIONS FOR SELECTING THE SPACING AND AUDIBLE/VISIBLE CHARACTERISTICS OF NOTIFICATION APPLIANCES.
   i. PRODUCT DATA WITH SPECIFIC SYSTEM COMPONENTS IDENTIFIED.
   j. ANY ADDITIONAL INFORMATION REQUIRED TO COMPLY WITH CHAPTER 7 "DOCUMENTATION" IN NFPA 72.
4. SIZE BATTERIES TO PROVIDE A MINIMUM MARGIN OF SAFETY OF 20% ABOVE THE CALCULATED AMP-HOUR CAPACITY REQUIRED.
5. LAYOUT DRAWINGS CONTAINING MATERIAL DEVIATIONS (AS DEFINED BY 61G15-32.002, F.A.C.) SHALL BE ACCOMPANIED BY SEALED, SIGNED, AND DATED ENGINEERING DOCUMENTS.

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS.
2. FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF HE PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR DEFICIENCIES ASSOCIATED THEREWITH.
3. BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON HIS PART.
4. THE CONTRACTOR SHALL PAY FOR INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK.
5. CONSTRUCTION MANAGER/GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES.
6. WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES.
7. ERECT AND MAINTAIN REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS. PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS.
8. COORDINATE AND SEQUENCE DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE.
9. THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. HE SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY MOBILIZE, PROCEED WITH AND COMPLETE THE WORK.
10. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF EQUIPMENT AND MATERIALS.
11. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF DEBRIS AT COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE.
12. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE ARCHITECT AT COMPLETION OF CONSTRUCTION.
13. CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO "SHOP DRAWINGS, PRODUCT DATA AND SAMPLES".
14. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF.
15. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKER BOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS.
16. SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE.
17. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES.
18. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS.
19. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS.
20. THE BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION. THE OWNER WILL MAKE REASONABLE EFFORTS TO ASSIST THE CONTRACTOR IN COMPLETING THE WORK. COORDINATE WORK WITH THE OWNER'S DESIGNATED REPRESENTATIVE.
21. EXIT WAYS SHALL BE KEPT CLEAR. IF AN EXIT MUST BE TEMPORARILY BLOCKED, PROVIDE THE REQUIRED BARRICADE AND DIRECTIONAL SIGNS FOR TEMPORARY EXITING AND SAFETY.
22. REMOVE AND RE-INSTALL EXISTING CEILING TILE AS REQUIRED. REPLACE ANY TILE DAMAGED OR SOILED DURING CONSTRUCTION.
23. PROVIDE PROPER PROTECTIVE MEASURES TO PROTECT EXISTING FURNITURE, CARPET AND FINISHES DURING THE COURSE OF CONSTRUCTION. TAKE CARE NOT TO DAMAGE EXISTING SURFACES. REPAIR TO MATCH EXISTING CONDITIONS AS REQUIRED.
24. SEAL HOLES IN WALLS, CEILINGS, FLOORS, ETC. TO MATCH EXISTING ADJACENT SURFACES WHERE EQUIPMENT, CONDUIT AND/OR PIPING ARE REMOVED.
25. EXISTING EQUIPMENT IS THE PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER. DISPOSE OF ALL MATERIALS AND EQUIPMENT SHOWN TO BE REMOVED IN ACCORDANCE WITH LOCAL REGULATIONS.
26. ITEMS REMOVED AND SAVED FOR REUSE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL IDENTIFY ANY DEFECTIVE MATERIALS PRIOR TO DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO MATERIALS AT PROJECT COMPLETION NOT IDENTIFIED PRIOR TO DEMOLITION.
27. RELOCATE, AS REQUIRED, ANY EXISTING WIRE AND CONDUIT WHICH INTERFERES WITH INSTALLATION OF THE NEW WORK.
28. REMOVE ELECTRICAL EQUIPMENT (CONDUIT, POWER & CONTROL WIRING, DISCONNECT SWITCHES, STARTERS, ETC.) RELATED TO EQUIPMENT BEING REMOVED OR REPLACED.

ABBREVIATIONS

ADS	ACOUSTICALLY DISTINGUISHED SPACE	ER	EXISTING RELOCATED DEVICE
AFF	ABOVE FINISHED FLOOR	EX	EXISTING DEVICE TO REMAIN
AFG	ABOVE FINISHED GRADE	G	GROUND
AHJ	AUTHORITY HAVING JURISDICTION	GRC	GALVANIZED RIGID CONDUIT
AIM	ADDRESSABLE INPUT MODULE	IMC	INTERMEDIATE METALLIC CONDUIT
AIO	ADDRESSABLE INPUT/OUTPUT MODULE	LAN	LOCAL AREA NETWORK
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LC	LUCENT CONNECTOR
		NEC	NATIONAL ELECTRICAL CODE
AOM	ADDRESSABLE OUTPUT MODULE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
ATS	AUTOMATIC TRANSFER SWITCH		
AWG	AMERICAN WIRE GAUGE	PNL	ELECTRICAL PANEL
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL	RE	REPLACE DEVICE
		REL	RELOCATE DEVICE
CBB	COMMUNICATIONS BACKBOARD	RSC	RIGID STEEL CONDUIT
CD	CANDELA	SPD	SURGE PROTECTIVE DEVICE
CIS	COMMON INTELLIGIBILITY SCALE	STI	SPEECH TRANSMISSION INDEX
CLG	DEVICE LOCATED ON CEILING	STIPA	SPEECH TRANSMISSION INDEX FOR PUBLIC ADDRESS
CNT	CONTRACTOR		
dB	DECIBELS	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
dBA	DECIBEL AMPS		
DISC	DISCONNECT	TP	TAMPER PROOF DEVICE
DN	DOWN	TYP	TYPICAL
EIA	ELECTRONIC INDUSTRIES ALLIANCE	UNO	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING	UTP	UNSHIELDED TWISTED-PAIR
EC	ELECTRICAL CONTRACTOR	WP	WEATHER PROOF

INDEX

FA001	GENERAL NOTES & LEGENDS
FA111	FLOOR PLAN
FA301	RISER DIAGRAM & DETAILS

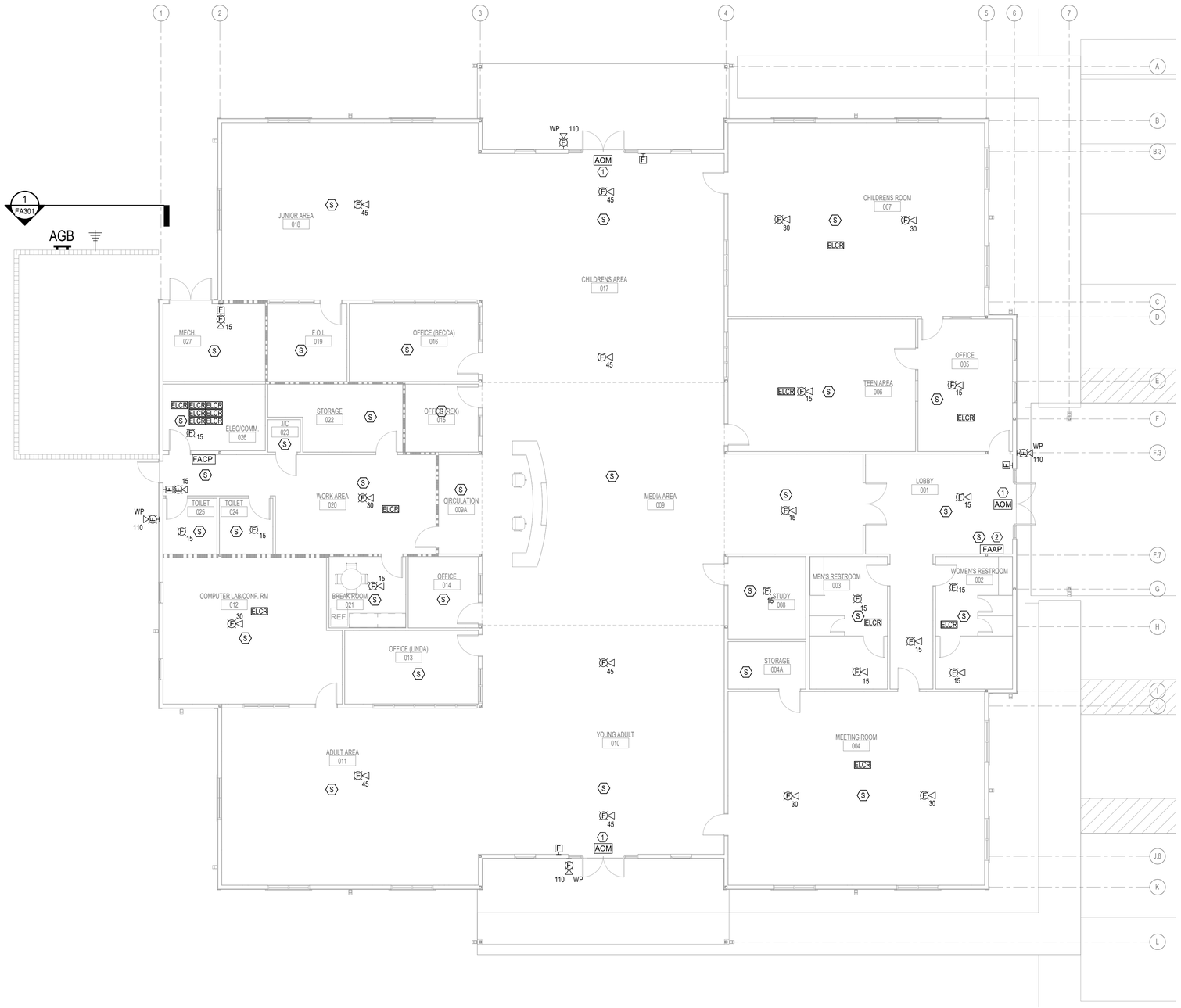
RESPONSIBILITY MATRIX FOR FIRE SAFETY AND EMERGENCY COMMUNICATIONS

AREA OF WORK / CATEGORY OF EQUIPMENT	FURNISHED BY						INSTALLED BY						
NOTE: THIS MATRIX IS INTENDED TO INDICATE A GENERAL LISTING OF THE WORK AND MATERIALS TO BE FURNISHED AND INSTALLED BY THE VARIOUS TRADES FOR COORDINATION PURPOSES ONLY. IT IS NOT INTENDED TO TO BE ALL INCLUSIVE. EACH TRADE IS RESPONSIBLE FOR FURNISHING AND INSTALLING THEIR RESPECTIVE COMPLETE AND WORKING SYSTEM. REFER TO DRAWINGS AND SPECIFICATIONS FOR THE EXTENT OF WORK INVOLVED.	OWNER	ELECTRICAL CONTRACTOR	TELECOM CONTRACTOR	A/V CONTRACTOR	SECURITY CONTRACTOR	FIRE ALARM CONTRACTOR	OWNER	ELECTRICAL CONTRACTOR	TELECOM CONTRACTOR	A/V CONTRACTOR	SECURITY CONTRACTOR	FIRE ALARM CONTRACTOR	COMMENTS
FIRE ALARM SYSTEM													
FIRE ALARM CONTROL PANELS, ANNUNCIATORS, INITIATING DEVICES, NOTIFICATION APPLIANCES						X						X	
EMERGENCY RESPONDER RADIO COVERAGE SYSTEM INCLUDING DEVICES, CABLING, TESTING AND CERTIFICATION						X						X	
EMERGENCY RESPONDER RADIO ROOFTOP ANTENNA, GROUND BAR, BONDING TO BUILDING GROUND						X						X	
DIGITAL ALARM COMMUNICATION TRANSMITTERS / RADIO TRANSMITTERS						X						X	
UNDERGROUND CONDUITS, BACKBOXES, HAND HOLES, PULL BOXES						X						X	
ABOVEGROUND CONDUITS, CABLE TRAYS, BACK BOXES, SLEEVES THRU WALLS AND FLOORS						X						X	
SURGE PROTECTION DEVICES FOR EXTERIOR COPPER CABLES						X						X	
FIRE STOPPING OF CONDUITS AND SLEEVES						X						X	
IDENTIFICATION AND LABELING						X						X	
PERMANENT LINK TESTING AND DOCUMENTATION AFTER INSTALLATION						X						X	

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FLOOR PLAN - FIRE ALARM

Scale: 1/8" = 1'-0"

FIRE ALARM GENERAL NOTES

1. THE FIRE ALARM SYSTEM SHALL MONITOR ALL GAS SOLENOID VALVES.
2. PROVIDE AUDIBLE NOTIFICATION FOR ALL PUBLIC AREAS AND REGULARLY OCCUPIED SPACES IN ACCORDANCE WITH "AUDIBLE NOTIFICATION REQUIREMENTS", "SPEECH INTELLIGIBILITY REQUIREMENTS", AND "SYSTEM LAYOUT DOCUMENT REQUIREMENTS" SECTIONS ON SHEET FA001.
3. WHERE VISUAL ONLY NOTIFICATION DEVICES ARE INDICATED, CONTRACTOR MAY SUBSTITUTE AUDIBLE/VISUAL NOTIFICATION DEVICES INSTEAD TO MEET BOTH AUDIBLE AND VISUAL NOTIFICATION REQUIREMENTS IN ACCORDANCE WITH LAYOUT DOCUMENTS AND CALCULATIONS. VISUAL APPLIANCES ARE INDICATED FOR VISUAL NOTIFICATION INTENT ONLY, CONTRACTOR SHALL PROVIDE ADDITIONAL SPEAKERS AS NECESSARY TO SATISFY AUDIBLE AND SPEECH INTELLIGIBILITY REQUIREMENTS.
4. PROVIDE CEILING MOUNTED DEVICES IN ALL SPACES WITH FINISHED CEILINGS, UNLESS NOTED OTHERWISE. PROVIDE WALL MOUNTED DEVICES IN SPACES WITH NO CEILING. COORDINATE DEVICES WITH OTHER DEVICES ON CEILINGS AND WALLS. LOCATE CEILING MOUNTED DEVICES IN LAY -IN CEILING APPLICATIONS IN CENTER OF TILE.
5. THIS PROJECT REQUIRES A VOICE AND/OR MASS NOTIFICATION SYSTEM SPEAKERS ARE NOT INDICATED ON PLANS BUT INTENDED THROUGHOUT AS REQUIRED AND DETERMINED BY DELEGATED FIRE ALARM DESIGN. PROVIDE QUANTITY OF SPEAKERS SO LOCATED AS TO PROVIDE AN ELECTRONIC INTELLIGIBLE VOICE TRANSMISSION ALONG EGRESS ROUTE AND IN ALL PUBLIC AREAS, WITH THE EXCEPTION OF PRIVATE BATHROOMS; MECHANICAL AND ELECTRICAL ROOMS, STORAGE ROOMS, INDIVIDUAL OFFICES, KITCHENS, AND ROOMS/AREAS WHERE INTELLIGIBILITY CANNOT BE REASONABLY PREDICTED AND THEREFORE EXEMPTED. THE VOICE TRANSMISSION MUST MEET THE REQUIREMENTS FOR SIGNAL VOICE INTELLIGIBILITY AS DEFINED BY NFPA 72, ANNEX D. EXEMPTED SPACES SHOWN ON THE PLANS WITH SPEAKERS ARE SUPPLEMENTAL TO THE INTELLIGIBILITY REQUIREMENTS OF PUBLIC AREAS; THESE AREAS SHALL BE PROVIDED WITH AN ELECTRONIC AUDIBLE VOICE TRANSMISSION; HOWEVER, THEY ARE ONLY REQUIRED TO MEET AUDIBLE NOTIFICATION REQUIREMENTS AND NOT NECESSSARILY INTELLIGIBILITY REQUIREMENTS. ALL PARTS OF THE BUILDING INTENDED TO HAVE OCCUPANT NOTIFICATION SHALL BE SUBDIVIDED INTO ACOUSTICALLY DISTINGUISHABLE SPACES (ADSS) OR EMERGENCY COMMUNICATIONS SYSTEM ZONES AS DEFINED BY NFPA 72. INCLUDE DRAWINGS INDICATING THE ADSS. EACH ADS MUST BE IDENTIFIED AS EITHER REQUIRED INTELLIGIBILITY OR NOT REQUIRING INTELLIGIBILITY.
6. LOCATION OF CEILING MOUNT AND WALL MOUNT DEVICES IS DIAGRAMMATIC AND SHOWN FOR CLARITY. REFER TO ARCHITECTURAL RCP PLAN FOR EXACT LOCATION OF ALL CEILING MOUNT DEVICES. WHERE NOT INDICATED ON ARCHITECT'S RCP PLAN COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE WITH ARCHITECT FOR FINAL LOCATION OF ALL EXTERIOR AND INTERIOR WALL MOUNT DEVICES.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR SPECIFIC LOCATIONS OF CEILING MOUNTED DEVICES INCLUDING, BUT NOT LIMITED TO, DIFFUSERS, SPRINKLER HEADS, SMOKE DETECTORS, LIGHT FIXTURES, ETC. DEVICES SHALL BE INSTALLED IN THE CENTER OF CEILING TILES WHERE ACOUSTICAL CEILING SYSTEMS ARE SPECIFIED AND, AS A GENERAL RULE, ON THE SAME CENTERLINES WHEN OTHER ADJACENT CEILING MOUNTED DEVICES ARE INSTALLED IN HARD CEILINGS. CONTACT ARCHITECT/ENGINEER FOR DIRECTION PRIOR TO INSTALLATION SHOULD THE LOCATION OF A SPECIFIED DEVICE NOT BE CLEARLY INDICATED.
8. COORDINATE DEVICES WITH OTHER DEVICES ON CEILINGS AND WALLS.
9. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED UNDER DIVISON 26. COORDINATE INSTALLATION WITH DIVISION 23. INSTALL DUCT SMOKE DETECTORS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. SEE HVAC DRAWINGS FOR LOCATIONS OR INSTALL WHERE DIRECTED BY THE ENGINEER. EXACT DUCT SMOKE DETECTOR PLACEMENTS SHALL BE APPROVED BY THE FIRE ALARM SYSTEM SUPPLIER

KEYNOTES

1. ADDRESSABLE MODULE FOR INTERFACE WITH ACCESS CONTROL SYSTEM - SEE SECURITY PLANS FOR MORE INFORMATION.
2. FIRE ALARM REMOTE PANEL WITH PAGING MICROPHONE MODULE AND FIREFIGHTING HANDSET.

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Submittal

Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

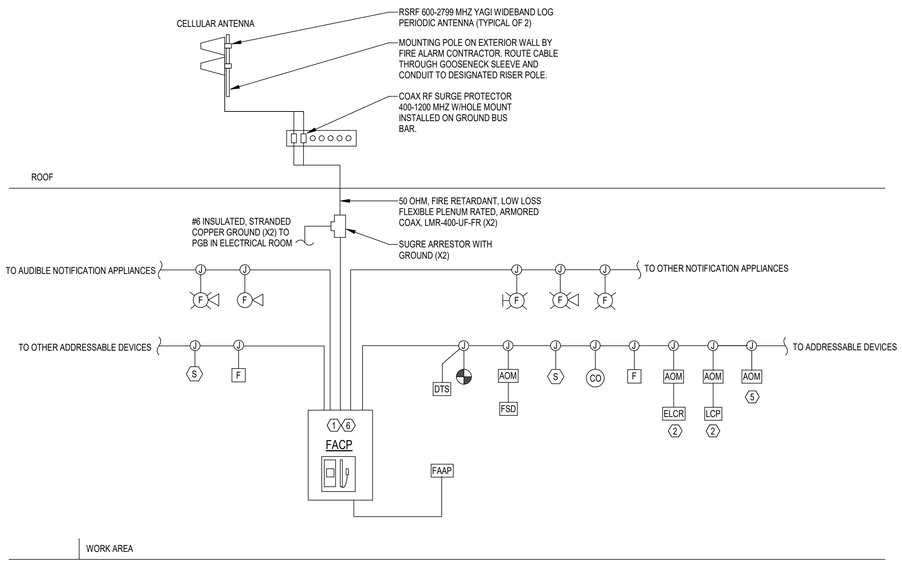
SHEET TITLE
FLOOR PLAN

FA111

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FIRE ALARM INPUT / OUTPUT MATRIX

SYSTEM INPUTS OR EVENTS		SYSTEM OUTPUTS OR RESPONSE: CONTROL UNIT ANNUNCIATION — ACTUATE COMMON ALARM SIGNAL INDICATOR (A)	ACTUATE AUDIBLE ALARM SIGNAL (B)	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR (C)	ACTUATE AUDIBLE SUPERVISORY SIGNAL (D)	ACTUATE COMMON TROUBLE SIGNAL INDICATOR (E)	ACTUATOR AUDIBLE COMMON TROUBLE SIGNAL (F)	ACTUATE APPROPRIATE LOCATION INDICATOR (G)	NOTIFICATION — ACTUATE ALL AUDIBLE EVACUATION SIGNALS (H)	DISPLAY / PRINT CHANGE OF STATUS (I)	TRANSMIT ALARM SIGNAL TO SUPERVISORY STATION (J)	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISORY STATION (K)	TRANSMIT TROUBLE SIGNAL TO SUPERVISORY STATION (L)	DEACTIVATE AUDIBLE NOTIFICATION APPLIANCES (M)	FIRE SAFETY CONTROL — RELEASE MAGNETICALLY HELD SMOKE DOORS (N)	UNLOCK SECURED EXITS (O)	ACTUATE EGRESS LIGHTING (P)	CLOSE SMOKE / FIRE DAMPERS IN WALLS, SHAFTS, FLOORS (Q)	HVAC EQUIPMENT SHUTDOWN (AHU, EF) (R)	CLOSE VALVE TO GAS SERVICE (S)	REMOTELY DISPLAY ACTIVE STATUS (T)	COMMENTS	
MANUAL PULL STATIONS	1	X	X					X	X	X	X				X	X	X			X	X		1
SMOKE DETECTORS: ALL LOCATIONS	2	X	X					X	X	X	X				X	X	X			X			2
SMOKE DETECTORS: BEAM TYPE @ ATRIUM	3	X	X					X	X	X	X				X	X	X			X			3
SMOKE DETECTORS: IN-DUCT @ AHUs	4	X	X					X		X	X				X	X	X		X				4
SMOKE DETECTORS: IN-DUCT @ SMOKE DAMPERS	5	X	X					X		X	X				X	X	X	X				INTERRUPT 120-V FOR DAMPER CLOSURE	5
FIRE ALARM SYSTEM: LOSS OF A.C. POWER	6					X	X			X			X								X		6
FIRE ALARM SYSTEM: LOW BATTERY	7					X	X			X			X								X		7
OPEN CIRCUIT	8					X	X			X			X										8
GROUND FAULT	9					X	X			X			X										9
NOTIFICATION APPLIANCE CIRCUIT - WIRE TO WIRE SHORT	10					X	X			X			X										10
SIGNALING LINE CIRCUIT - WIRE TO WIRE SHORT	11					X	X			X			X										11
ALARM SILENCE	12													X									12
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		



1 FIRE ALARM RISER DIAGRAM
SCALE: N.T.S

FIRE ALARM RISER NOTES

1. THIS RISER DIAGRAM SHOWS TYPICAL DEVICES DIAGRAMMATICALLY ONLY AND IS NOT INTENDED TO BE USED AS A WIRING DIAGRAM. IT DOES NOT SHOW EVERY DEVICE, REFER TO THE FLOOR PLANS FOR DEVICES AND LOCATIONS.

KEYNOTES

(1) MAIN FIRE ALARM CONTROL PANEL WITH DISPLAY MODULE AND CPU. PROVIDE CABINET OF ADEQUATE SIZE TO HOUSE NECESSARY INTELLIGENT INTERFACE CARD(S) AND INITIATING DEVICE CIRCUIT MODULE(S) TO SERVICE NUMBER OF DEVICES, ADDRESSABLE AND SIGNALING CIRCUITS IN AREA SERVED. PROVIDE NUMBER OF POWER SUPPLIES REQUIRED FOR SIGNALING CIRCUITS AND BATTERY MODULES FOR MINIMUM 90 MINUTE RUNTIME WITHOUT SOURCE POWER. PROVIDE AUDIO AMPLIFIERS SIZED FOR VOICE EVACUATION SPEAKERS IN AREA SERVED. PROVIDE NETWORK CONTROLLER WITH TWO FIBER OPTIC SINGLE MODE, DUAL FIBER, LC TRANSCEIVERS AND NETWORK CONTROLLER WITH TWO SFP TRANSCEIVERS.

(2) ADDRESSABLE MODULE FOR EMERGENCY LIGHTING OVERRIDE.

(3) PROVIDE ONE OS2, OFNR FIBER LC DUPLEX PATCH CORD FROM FIRE ALARM PANEL NETWORK CONTROLLERS TO BOTH INCOMING AND OUTGOING FIBER CASSETTE.

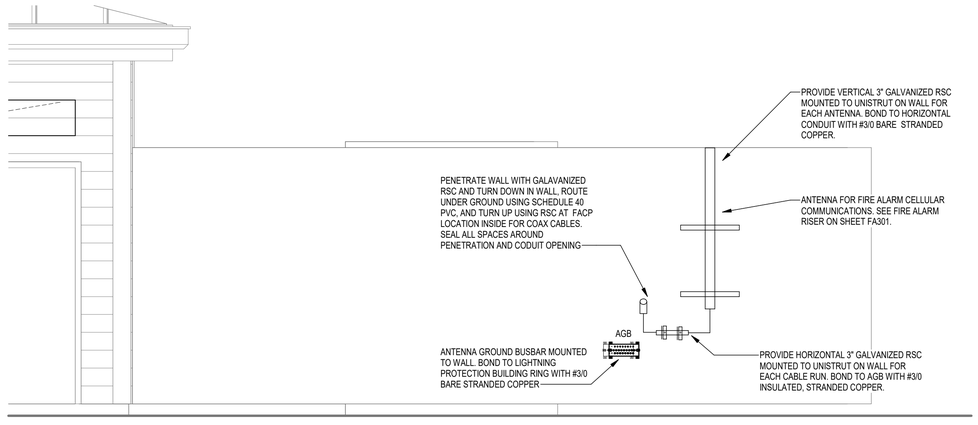
(4) 6 STRAND LOOSE TUBE, GEL-FILLED OS2 SINGLE MODE OSP FIBER WITH NON-ARMORED PE JACKET FOR FIRE ALARM BACKBONE BETWEEN PANELS. INSTALL IN 1" DEDICATED CONDUIT; USE SCHEDULE 40 PVC BELOW GRADE AND RIGID STEEL CONDUIT ABOVE GRADE. PAINT ABOVE GRADE CONDUIT AND JUNCTION BOXES RED. LABEL CONDUIT AT MAXIMUM 25' INTERVALS AND JUNCTION/PULL BOXES "FIRE ALARM BACKBONE".

(5) ADDRESSABLE MODULE FOR INTERFACE WITH ACCESS CONTROL SYSTEM.SEE TECHNOLOGY PLANS FOR MORE INFORMATION.

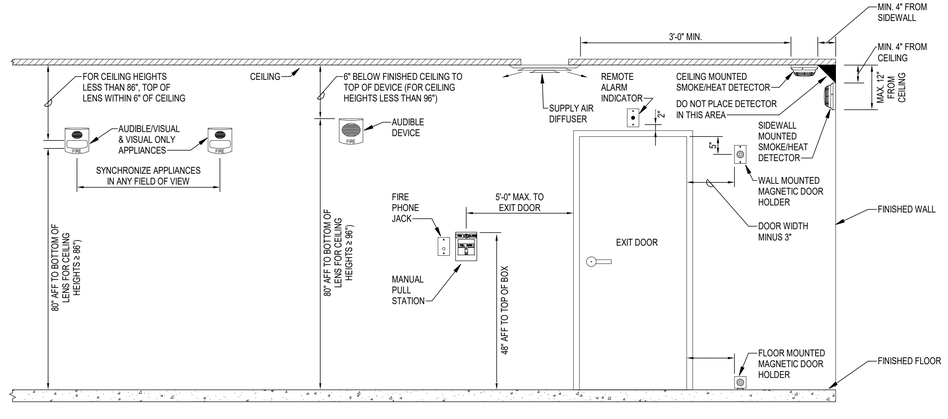
(6) PROVIDE CELLULAR FIRE ALARM DIALER WITH ANTENNA AND DATA BACKUP IN CONTROL PANEL.

FIRE ALARM NOTES

1. ALL FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED.\
2. ALL SPLICES SHALL BE MADE WITH CRIMP CONNECTORS. NO WIRE NUTS SHALL BE USED.
3. ALL MAIN JUNCTION BOXES AND TERMINAL CABINETS SHALL BE PROVIDED WITH TERMINAL BLOCKS.
4. PROVIDE REMOTE TEST & ALARM INDICATORS FOR AHU DUCT DETECTORS LOCATED IN AREAS NOT READILY VISIBLE & ACCESSIBLE ABOVE CEILINGS, OR AS INDICATED ON THE DRAWINGS.
5. ALL INITIATING DEVICES WITH SCREW TERMINALS SHALL BE CONNECTED TO THE WIRING SYSTEM WITH SPADE TERMINALS.
6. CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE.
7. FIRE ALARM SYSTEM SHALL MONITOR ALL FLOW AND TAMPER SWITCHES, BACK FLOW PREVENTER AND PIV ASSOCIATED WITH FIRE SPRINKLER SYSTEM. REFER TO THE SPRINKLER DRAWINGS FOR QUANTITY.
8. THIS RISER DIAGRAM SHOWS TYPICAL DEVICES DIAGRAMMATICALLY ONLY AND IS NOT INTENDED TO BE USED AS A WIRING DIAGRAM. IT DOES NOT SHOW EVERY DEVICE, REFER TO THE FLOOR PLANS FOR DEVICES AND LOCATIONS.
9. PROVIDE A HINGED, CLEAR PLASTIC SHIELD FOR EACH PULL STATION. LIFTING SHIELD SHALL INITIATE LOCAL AUDIBLE ALARM.
10. PROVIDE PROTECTION FOR FIRE ALARM DEVICES SUBJECT TO PHYSICAL DAMAGE. LOCATIONS INCLUDE MECHANICAL ROOMS, ELECTRICAL ROOMS, EQUIPMENT ROOMS AND STORAGE ROOMS.
11. THE CONSTRUCTOR SHALL CERTIFY AND TAG THE SYSTEM AFTER ALL MODIFICATIONS ARE MADE AND PRIOR TO SUBSTANTIAL COMPLETION.
12. THE CONTRACTOR AND THE PPD SYSTEMS ELECTRONICS SHOP SHALL TEST THE FIRE ALARM SYSTEM BEFORE ANY RENOVATION OR MODIFICATION IS MADE. ANY PART OF THE SYSTEM NOT WORKING PROPERLY SHALL BE NOTED OR REPAIRED BEFORE ANY CONSTRUCTION BEGINS.
13. EXTERIOR DEVICES SHALL BE WEATHERPROOF.



1 FA301 AGB SECTION VIEW
1/2" = 1'-0"



A FIRE ALARM EQUIPMENT MOUNTING HEIGHT N.T.S

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Phase	Date	Drw	Chk
100% CDs	7/21/25	GAG	ADW

Revision

#	Description	Date

CRA Project # 24071

Phase: 100% CONSTRUCTION DOCUMENTS

SHEET TITLE
RISER DIAGRAM & DETAILS

FA301

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