CITY OF | KEY COLONY BEACH | CITY HALL

600 W Ocean Dr. Key Colony Beach, FL 33051 Project# 201913



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CITY OF
KEY COLONY BEACH
CITY HALL

600 West Ocean Drive

CONSTRUCTION DOCUMENTS

BID SET
05.01.23

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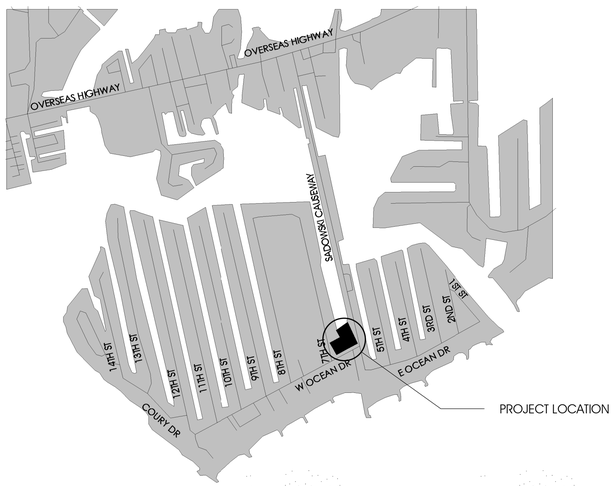
VICINITY MAP N.T.S.



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AREA MAP N.T.S.

Index Matrix

Sheet Number	Description	Design Dev. 06.11.21	50% CD 09.02.21	Permit Set 7.08.22	BID SET 05.01.23
G1.0	Cover				
G1.1	Cover	O	O	O	O
.	SURVEY			O	O
CIVIL					
C100	EXISTING CONDITIONS DEMOLITION PLAN			O	O
C110	STORM WATER POLLUTION PREVENTION PLAN			O	O
C115	STORM WATER POLLUTION PROTECTION DETAILS			O	O
C200	PAVING GRADING AND DRAINAGE PLAN	O	O	O	O
C220	PAVING GRADING AND DRAINAGE SECTIONS			O	O
C230	PAVING DRAINAGE AND GRADING DETAILS	O	O	O	O
C231	DRAINAGE WELL DETAILS			O	O
C300	WATER AND SANITARY SEWER PLAN	O	O	O	O
C400	SIGNING AND PAVEMENT MARKING PLAN			O	O
C500	SPECIFICATIONS			O	O
C501	SPECIFICATIONS			O	O
C502	SPECIFICATIONS			O	O
LANDSCAPE					
L1.0	TREE DISPOSITION PLAN				
L2.0	LANDSCAPE PLAN	O	O		
L3.0	PLAN LIST AND NOTES				
L4.0	PLAN PHOTO SHEET				
LIFE SAFETY					
LS1.0	LIFE SAFETY PLAN - First Floor			O	O
LS1.1	LIFE SAFETY PLAN - Second floor			O	O
LS2.0	LIFE SAFETY CALCULATIONS	O	O	O	O
LS3.0	DETAILS	O	O	O	O
LS3.1	DETAILS	O	O	O	O
ARCHITECTURE					
AD1.0	SITE PLAN - DEMOLITION			O	O
AS1.0	SITE PLAN	O	O	O	O
A0.1	GENERAL NOTES, LEGEND AND ABBREVIATIONS	O	O	O	O
A1.0	OVERALL FIRST FLOOR PLAN	O	O	O	O
A1.1	OVERALL SECOND FLOOR PLAN	O	O	O	O
A2.0	MARBLE HALL FLOOR PLAN - First floor	O	O	O	O
A2.1	OFFICE / POLICE STATION FLOOR PLAN - Second floor	O	O	O	O
A2.2	POST OFFICE FLOOR PLAN - First floor	O	O	O	O
A2.3	PARTIAL FLOOR PLANS	O	O	O	O
A4.0	ROOF PLAN	O	O	O	O
A4.1	ROOF DETAILS		O	O	O
A4.2	ROOF DETAILS		O	O	O
A4.3	ROOF AND GENERAL DETAILS			O	O
A5.0	MARBLE HALL REFLECTED CEILING PLAN - Upper level	O	O	O	O
A5.1	MARBLE HALL REFLECTED CEILING PLAN - Lower level	O	O	O	O
A5.2	REFLECTED CEILING PLAN - Second floor	O	O	O	O
A5.3	POST OFFICE REFLECTED CEILING PLAN	O	O	O	O
A5.4	COVERED PARKING REFLECTED CEILING PLAN		O	O	O
A5.5	CEILING DETAILS AND MISC. DETAILS		O	O	O
A6.0	FINISH SCHEDULE	O	O	O	O
A6.1	PARTITION TYPES		O	O	O
A7.0	DOOR SCHEDULE	O	O	O	O
A7.1	DOOR TYPES, FRAMES AND WINDOW TYPES		O	O	O
A7.2	DOOR AND WINDOW DETAILS		O	O	O
A7.3	RAILING TYPES AND DETAILS			O	O
A8.0	EXTERIOR ELEVATIONS	O	O	O	O
A8.1	EXTERIOR ELEVATIONS	O	O	O	O
A8.2	EXTERIOR ELEVATIONS		O	O	O
A9.0	BUILDING SECTIONS	O	O	O	O
A9.1	BUILDING SECTIONS	O	O	O	O
A10.0	WALL SECTIONS		O	O	O
A10.1	WALL SECTIONS		O	O	O
A10.2	TOWER SECTION AND HOISTWAY PARTIAL FLOOR PLAN		O	O	O
A10.3	WALL SECTION		O	O	O
A10.4	WALL SECTION		O		O
A10.5	WALL SECTION				O
A10.6	WALL SECTION				O
A10.7	WALL SECTION				O
A14.0	POST OFFICE DETAILS	O	O	O	O
A14.1	POST OFFICE DETAILS	O	O	O	O
A14.2	POST OFFICE DETAILS	O	O	O	O
A15.0	POST OFFICE - INTERIOR ELEVATIONS	O	O	O	O
A15.1	INTERIOR ELEVATIONS		O	O	O
A15.2	CASEWORK DETAILS			O	O
A16.0	SIGNAGE TYPES		O	O	O
A16.1	SIGNAGE TYPES			O	O

Index Matrix

Sheet Number	Description	Design Dev. 06.11.21	50% CD 09.02.21	Permit Set 7.08.22	BID SET 05.01.23
STRUCTURAL					
S0.0	GENERAL STRUCTURAL NOTES	O	O	O	O
S0.1	GENERAL STRUCTURAL NOTES	O	O	O	O
S0.2	TRESHOLD INSPECTION NOTES	O	O	O	O
S0.3	SCHEDULES			O	O
S0.4	SCHEDULES			O	O
S1.0	GROUND FLOOR FRAMING PLAN	O	O	O	O
S1.1	FIRST FLOOR FRAMING PLAN	O	O	O	O
S1.2	SECOND FLOOR FRAMING PLAN	O	O	O	O
S1.3	ROOF FRAMING PLAN	O	O	O	O
S2.0	TYPICAL DETAILS	O	O	O	O
S2.1	TYPICAL DETAILS	O	O	O	O
S2.2	SECTIONS AND DETAILS			O	O
S2.3	SECTIONS AND DETAILS			O	O
S3.0	BUILDING SECTIONS	O	O	O	O
S3.1	BUILDING SECTIONS	O	O	O	O
S3.2	BUILDING SECTIONS			O	O
S3.2A	BUILDING SECTIONS			O	O
S3.3	BUILDING SECTIONS			O	O
S3.4	SECTIONS AND DETAILS			O	O
S3.5	SECTIONS AND DETAILS			O	O
S4.0	DESIGN WIND PRESSURES			O	O
S4.1	DESIGN WIND PRESSURES			O	O
PLUMBING					
P001	PLUMBING SYMBOLS AND SPECIFICATIONS	O	O	O	O
P101	PLUMBING SITE PLAN			O	O
P200	PLUMBING BASEMENT AND UNDERGROUND PLAN		O	O	O
P201	PLUMBING FIRST FLOOR PLAN	O	O	O	O
P202	PLUMBING SECOND FLOOR PLAN	O	O	O	O
P401	PLUMBING ENLARGED PLANS		O	O	O
P402	PLUMBING ENLARGED PLANS			O	O
P501	PLUMBING RISER DIAGRAM			O	O
P502	PLUMBING RISER DIAGRAM			O	O
P503	PLUMBING RISER DIAGRAM			O	O
P504	PLUMBING RISER DIAGRAM			O	O
P801	PLUMBING DETAILS	O	O	O	O
FIRE PROTECTION					
F001	FIRE SYMBOLS AND SPECIFICATIONS	O	O	O	O
F201	FIRE PROTECTION FIRST FLOOR PLAN	O	O	O	O
F202	FIRE PROTECTION SECOND FLOOR PLAN	O	O	O	O
F801	FIRE DETAILS	O	O	O	O
MECHANICAL					
M001	MECHANICAL SYMBOLS AND SPECIFICATION	O	O	O	O
M002	MECHANICAL SYMBOLS AND SPECIFICATION	O	O	O	O
M201	MECHANICAL FIRST FLOOR PLAN	O	O	O	O
M202	MECHANICAL SECOND FLOOR PLAN	O	O	O	O
M301	MECHANICAL ROOF PLAN			O	O
M401	MECHANICAL ENLARGED PLANS		O	O	
M601	MECHANICAL CONTROLS	O	O	O	O
M602	MECHANICAL CONTROLS			O	O
M603	MECHANICAL CONTROLS			O	O
M604	MECHANICAL CONTROLS			O	O
M701	MECHANICAL SCHEDULES	O	O	O	O
M801	MECHANICAL DETAILS	O	O	O	O
M802	MECHANICAL DETAILS	O	O	O	O

Index Matrix

Sheet Number	Description	Design Dev. 06.11.21	50% CD 09.02.21	Permit Set 7.08.22	BID SET 05.01.23
ELECTRICAL					
E0.1	LIGHTING FIXTURE ELECTRICAL SYMBOL LENGEND AND NOTES	O	O	O	O
E1.0	ELECTRICAL SITE PLAN - LIGHTING AND DETAILS	O	O	O	O
E1.1	ELECTRICAL SITE PLAN PHOTOMETRICS	O	O	O	O
E1.2	ELECTRICAL SITE PLAN DEMOLITION			O	O
E2.0	PARTIAL FIRST FLOOR PLAN LIGHTING	O	O	O	O
E2.1	PARTIAL FIRST FLOOR PLAN LIGHTING	O	O	O	O
E2.2	PARTIAL FIRST FLOOR PLAN LIGHTING	O	O	O	O
E2.3	PARTIAL FIRST FLOOR PLAN PHOTOMETRICS NORMAL LIGHTS	O	O	O	O
E2.4	PARTIAL FIRST FLOOR PLAN PHOTOMETRICS NORMAL LIGHTS	O	O	O	O
E2.5	PARTIAL FIRST FLOOR PLAN PHOTOMETRICS NORMAL LIGHTS	O	O	O	O
E2.6	PARTIAL FIRST FLOOR PLAN PHOTOMETRICS EMERGENCY LIGHTS	O	O	O	O
E2.7	PARTIAL FIRST FLOOR PLAN PHOTOMETRICS EMERGENCY LIGHTS	O	O	O	O
E2.8	PARTIAL FIRST FLOOR PLAN PHOTOMETRICS EMERGENCY LIGHTS	O	O	O	O
E2.9	PARTIAL FIRST FLOOR PLAN POWER AND SYSTEMS	O	O	O	O
E2.10	PARTIAL FIRST FLOOR PLAN POWER AND SYSTEMS	O	O	O	O
E2.11	PARTIAL FIRST FLOOR PLAN POWER AND SYSTEMS	O	O	O	O
E2.12	ENLARGED FLOOR PLAN GENERATOR ROOM AND IT ROOM	O	O	O	O
E3.0	PARTIAL SECOND FLOOR PLAN LIGHTING	O	O	O	O
E3.1	PARTIAL SECOND FLOOR PLAN LIGHTING	O	O	O	O
E3.2	PARTIAL SECOND FLOOR PLAN LIGHTING	O	O	O	O
E3.3	PARTIAL SECOND FLOOR PLAN PHOTOMETRICS NORMAL LIGHTS	O	O	O	O
E3.4	PARTIAL SECOND FLOOR PLAN PHOTOMETRICS NORMAL LIGHTS	O	O	O	O
E3.5	PARTIAL SECOND FLOOR PLAN PHOTOMETRICS NORMAL LIGHTS	O	O	O	O
E3.6	PARTIAL SECOND FLOOR PLAN PHOTOMETRICS EMERGENCY LIGHTS	O	O	O	O
E3.7	PARTIAL SECOND FLOOR PLAN PHOTOMETRICS EMERGENCY LIGHTS	O	O	O	O
E3.8	PARTIAL SECOND FLOOR PLAN PHOTOMETRICS EMERGENCY LIGHTS	O	O	O	O
E3.9	PARTIAL SECOND FLOOR PLAN POWER AND SYSTEMS	O	O	O	O
E3.10	PARTIAL SECOND FLOOR PLAN POWER AND SYSTEMS	O	O	O	O
E3.11	PARTIAL SECOND FLOOR PLAN POWER AND SYSTEMS	O	O	O	O
E4.0	ROOF PLAN LIGHTNING PROTECTION	O	O	O	O
E4.1	LIGHTNING PROTECTION DETAILS	O	O	O	O
E5.0	POWER RISER DIAGRAM	O	O	O	O
E5.1	FIRE ALARM RISER DIAGRAM				O
E5.2	VOICE/DATA RISER DIAGRAM				O
E5.3	INITRUSSION ALARM RISER DIAGRAM				O
E5.4	PANEL SCHEDULES				O
E5.5	PANEL SCHEDULES				O
E6.0A	POWER RISER DIAGRAM				O
E6.1A	ENLARGED FLOOR PLAN GENERATOR AND ELECTRICAL ROOM				O
E6.2A	PANEL SCHEDULES				O
E6.3A	PANEL SCHEDULES				O

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MAP OF BOUNDARY & TOPOGRAPHIC SURVVEY

SECTION 5 & 8-66-33, SHELTER KEY
CITY OF KEY COLONY BEACH

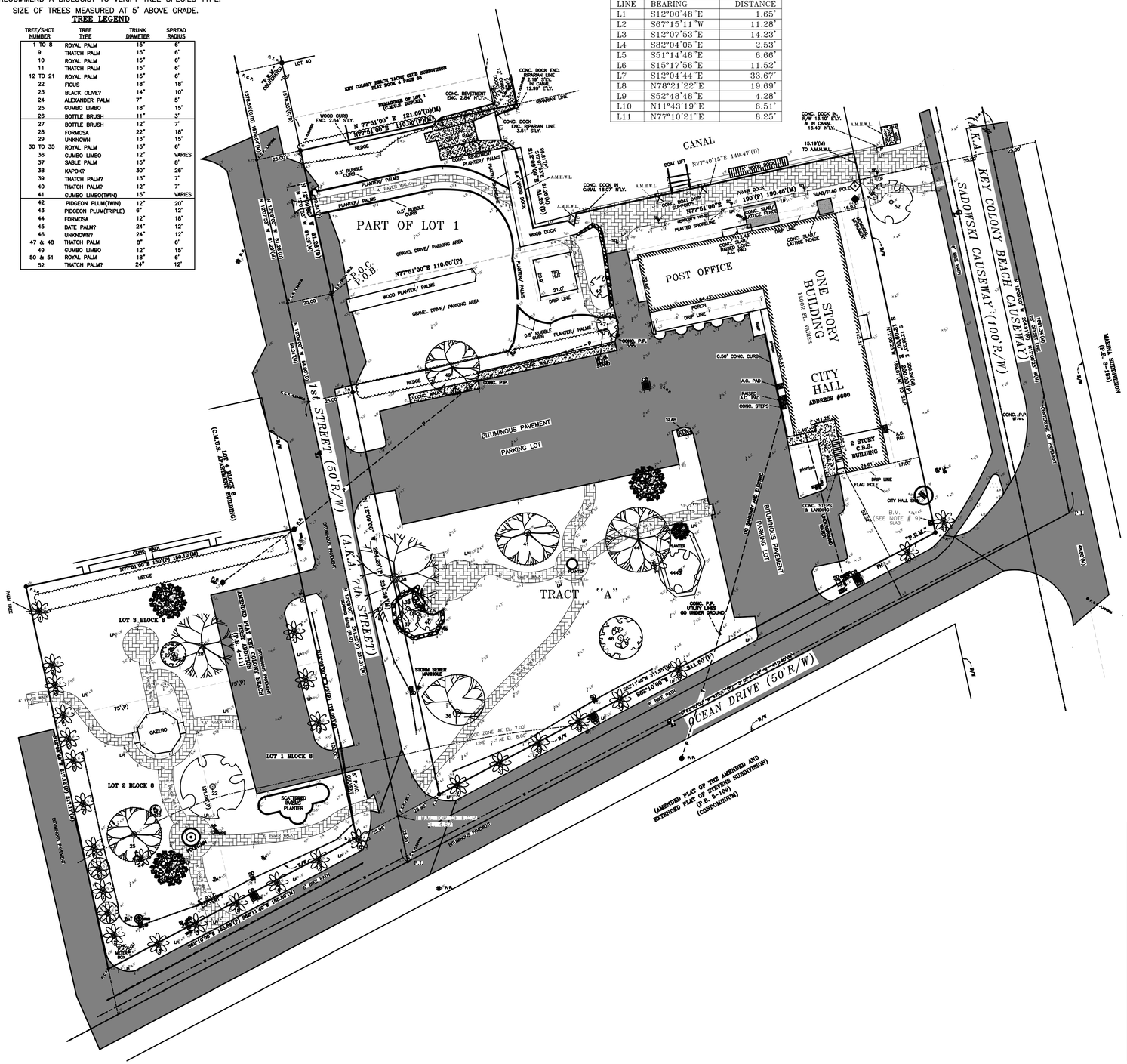
NOTE:
TREE SPECIES ARE TO THE BEST OF MY KNOWLEDGE, I RECOMMEND A BIOLOGIST TO VERIFY TREE SPECIES TYPE.
SIZE OF TREES MEASURED AT 5' ABOVE GRADE.

TREE LEGEND

TREE/SHOT NUMBER	TREE TYPE	TRUNK DIAMETER	SPREAD RADIUS
1 TO 8	ROYAL PALM	15"	6'
9	THATCH PALM	15"	6'
10	ROYAL PALM	15"	6'
11	THATCH PALM	15"	6'
12 TO 21	ROYAL PALM	15"	6'
22	FICUS	18"	18'
23	BLACK OLIVE?	14"	10'
24	ALEXANDER PALM	7"	5'
25	GUMBO LIMBO	18"	15'
26	BOTTLE BRUSH	11"	3'
27	BOTTLE BRUSH	12"	7'
28	FORMOSA	22"	18'
29	UNKNOWN	13"	15'
30 TO 35	ROYAL PALM	15"	6'
36	GUMBO LIMBO	12"	VARIES
37	SABLE PALM	15"	8'
38	KAPOK?	30"	26'
39	THATCH PALM?	13"	7'
40	THATCH PALM?	12"	7'
41	GUMBO LIMBO(TWIN)	15"	VARIES
42	PIDGEON PLUM(TWIN)	12"	20'
43	PIDGEON PLUM(TRIPLE)	6"	12'
44	FORMOSA	12"	18'
45	DATE PALM?	24"	12'
46	UNKNOWN?	24"	12'
47 & 48	THATCH PALM	8"	6'
49	GUMBO LIMBO	12"	15'
50 & 51	ROYAL PALM	18"	6'
52	THATCH PALM?	24"	12'

MEAN HIGH WATER TRAVERSE

LINE	BEARING	DISTANCE
L1	S12°00'48"E	1.65'
L2	S67°15'11"W	11.28'
L3	S12°07'53"E	14.23'
L4	S82°04'05"E	2.53'
L5	S51°14'48"E	6.66'
L6	S15°17'56"E	11.52'
L7	S12°04'44"E	33.67'
L8	N78°21'22"E	19.69'
L9	S52°48'48"E	4.28'
L10	N11°43'19"E	6.51'
L11	N77°10'21"E	8.25'



LEGAL DESCRIPTION AS FURNISHED BY CLIENT:

TRACT "A", BLOCK 7, "KEY COLONY BEACH FIRST ADDITION", ACCORDING TO THE AMENDED PLAT THEREOF RECORDED IN PLAT BOOK 4, PAGE 11, OF THE PUBLIC RECORDS OF MONROE COUNTY, FLORIDA.

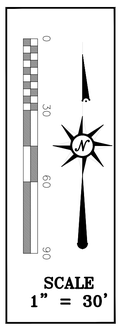
A PART OF LOT 1 OF ``KEY COLONY BEACH YACHT CLUB SUBDIVISION", AS RECORDED IN PLAT BOOK 4, PAGE 68, ALSO BEING THOSE LANDS AS DESCRIBED IN OFFICIAL RECORDS BOOK 1621, PAGE 2418, AND THE UNEXCAVATED CANAL LYING NORTHERLY OF TRACT "A", BLOCK 7 OF THE "AMENDED PLAT OF KEY COLONY BEACH, FIRST ADDITION", AS RECORDED IN PLAT BOOK 4, AT PAGE 11, OF THE PUBLIC RECORDS OF MONROE COUNTY, FLORIDA AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SAID SAID TRACT "A", SAID CORNER TO BE KNOWN AS THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREINAFTER DESCRIBED, BEAR NORTH 12 DEGREES 09 MINUTES 00 SECONDS WEST, ALONG THE EASTERLY RIGHT-OF-WAY LINE OF 1st STREET, NOW KNOWN AS 7th STREET, 81.26 FEET, TO THE NORTHWESTERLY CORNER OF THOSE LANDS AS DESCRIBED IN SAID OFFICIAL RECORDS BOOK; THENCE NORTH 77 DEGREES 51 MINUTES 00 SECONDS EAST, ALONG THE NORTHERLY LINE AND ITS PROJECTION OF SAID LANDS, 121.09 FEET, TO THE MEAN HIGH WATER LINE OF AN EXISTING CANAL;
THENCE ALONG SAID MEAN HIGH WATER LINE,
L1) SOUTH 12 DEGREES 00 MINUTES 48 SECONDS EAST 1.65 FEET;
L2 SOUTH 67 DEGREES 15 MINUTES 11 SECONDS WEST, 11.28 FEET, TO THE PLATTED SHORELINE OF SAID LOT 1;
L3) SOUTH 12 DEGREES 07 MINUTES 53 SECONDS EAST ALONG SAID PLATTED SHORELINE, 14.23 FEET;
THENCE ALONG SAID MEAN HIGH WATER LINE,
L4) SOUTH 82 DEGREES 04 MINUTES 05 SECONDS EAST 2.53 FEET;
L5) SOUTH 51 DEGREES 14 MINUTES 48 SECONDS EAST 6.66 FEET;
L6) SOUTH 15 DEGREES 17 MINUTES 56 SECONDS EAST 11.52 FEET;
L7) SOUTH 12 DEGREES 04 MINUTES 44 SECONDS EAST 33.67 FEET;
L8) NORTH 78 DEGREES 21 MINUTES 22 SECONDS EAST 19.69 FEET;
L9) SOUTH 52 DEGREES 48 MINUTES 48 SECONDS EAST 4.28 FEET;
L10) NORTH 11 DEGREES 43 MINUTES 19 SECONDS EAST 6.51 FEET;
L11) NORTH 77 DEGREES 10 MINUTES 21 SECONDS EAST 8.25 FEET;
THENCE NORTH 77 DEGREES 40 MINUTES 15 SECONDS EAST, ALONG SAID MEAN HIGH WATER LINE, 149.47 FEET TO THE WESTERLY RIGHT-OF-WAY LINE OF KEY COLONY BEACH CAUSEWAY AS SHOWN ON SAID PLAT; THENCE SOUTH 12 DEGREES 09 MINUTES 00 SECONDS EAST, ALONG SAID RIGHT-OF-WAY LINE, 15.19 FEET, TO THE NORTHERLY LINE OF SAID TRACT "A": THENCE SOUTH 77 DEGREES 51 MINUTES 00 SECONDS WEST, ALONG THE NORTHERLY LINE OF TRACT "A", 190' FEET, TO THE SOUTHEASTERLY CORNER OF SAID LOT 1: THENCE CONTINUE SOUTH 77 DEGREES 51 MINUTES 00 SECONDS WEST, 110' FEET, TO THE EASTERLY RIGHT-OF-WAY LINE OF SAID 1st STREET AND THE POINT OF BEGINNING.

LOTS 1, 2 AND 3, BLOCK 8 OF THE "AMENDED PLAT OF KEY COLONY BEACH, FIRST ADDITION", AS RECORDED IN PLAT BOOK 4, AT PAGE 11, OF THE PUBLIC RECORDS OF MONROE COUNTY, FLORIDA

SURVEYORS NOTES:
1) NORTH ARROW AND BEARING BASIS **N12°09'00"W** AS PER **PLAT.** AS NOTED.
2) DIMENSIONS (MEASUREMENTS) ARE SHOWN TO THE NEAREST ONE HUNDREDTH OF A FOOT (#.##) AS MEASURED HORIZONTALLY IN ACCORDANCE WITH UNITED STATES STANDARD (FOLLOWING ZEROS MAY NOT BE SHOWN). BEARINGS ARE SHOWN TO THE NEAREST ONE SECOND, WHERE REQUIRED. ALL ANGLES ARE 90 DEGREES UNLESS OTHERWISE NOTED.
3) THE EXPECTED USE OF THIS PROPERTY, AS CLASSIFIED IN THE STANDARDS OF PRACTICE (SJ-17.052)**(2)(12)** OF THE STATE OF FLORIDA, IS **COMMERCIAL**. THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY IS ONE FOOT IN **10,000** FEET. THE ACCURACY WAS ACHIEVED BY A REDUNDANCY OF FIELD MEASUREMENTS AND CALCULATIONS OF A CLOSED GEOMETRIC FIGURE BY COMPUTER MAPPING TECHNOLOGY AND WAS FOUND TO EXCEED THE STATE REQUIREMENT. THE MINIMUM RELATIVE VERTICAL ACCURACY FOR THIS TYPE OF TOPOGRAPHIC SURVEY IS +/- 0.05' TIMES SQUARE ROOT OF DISTANCE IN MILES, THE ACCURACY WAS ACHIEVED BY A CLOSED LOOP OR CLOSURE TO A SECOND BENCHMARK AND WAS FOUND TO EXCEED THE STATE REQUIREMENT.
4) ALL MONUMENTATION HAVE NO IDENTIFICATION EXCEPT AS NOTED.
5) INTERIOR HEDGES AND LANDSCAPING NOT SHOWN.
6) COPYRIGHT NOTE, THE INTENDED USE OF THIS **BOUNDARY SURVEY** IS FOR A **BUILDING PERMIT**. ANY OTHER USE IS STRICTLY FORBIDDEN WITHOUT THE WRITTEN CONSENT OF THE SIGNING SURVEYOR. THIS DOCUMENT IS GOOD FOR 90 DAYS OR WHEN CHANGES HAVE OCCURRED, WHICHEVER IS SOONER.
7) LIMITATION OF LIABILITY RECOVERY TO THOSE BENEFITED NAMED.
8) THIS SURVEY WAS PREPARED TO THE BEST OF MY KNOWLEDGE AND BELIEF AND IS BASED ON MY PROFESSIONAL OPINION AND DOES NOT CONSTITUTE AN EXPRESSION OF WARRANTY OR GUARANTEE.
9) ELEVATION BASIS IS GEODETIC BENCH MARK OR NATIONAL OCEAN SURVEY MONUMENT NO. **872 3962 C** PID NO. **AA0880**. ELEVATION **5.57'** . ELEVATIONS AS SHOWN HEREON ARE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29), BASED ON CLOSED LOOP HAVING APPLICABLE ACCURACY STANDARD.
10) FLOOD ZONE INFORMATION DERIVED FROM FLOOD INSURANCE RATE MAP NUMBER **12087C1382K** COMMUNITY **120681**, REVISED **02/18/05**, APPLICABLE 100 YEAR FLOOD ZONE ELEVATION FOR THE SUBJECT PROPERTY IS **AE AS SHOWN**.
11) SURVEYED AS SINGLE SITE AT CLIENTS REQUEST.
3) STRIPING FOR PARKING, LANDSCAPING, GRAVEL WALKWAYS, SCATTERED LIGHTING, ETC. NOT SHOWN AT THIS TIME AT CLIENTS REQUEST.

ABSTRACTORS NOTES:
1)THIS SURVEY IS BASED ON LEGAL DESCRIPTION AS FURNISHED BY CLIENT OR THEIR REPRESENTATIVES. IF THE LEGAL DESCRIPTION IS ATTACHED IT IS THEREFORE A PART OF THIS SURVEY AND THIS SURVEY IS NOT VALID WITHOUT THE LEGAL DESCRIPTION. IF ADJOINERS LEGAL DESCRIPTION WAS FURNISHED, OVERLAPS AND/OR GAPS, IF ANY ARE SHOWN.
2) NO LEGAL DESCRIPTION FURNISHED FOR UTILITIES. UTILITY LINES, POWER POLES, GUY WIRES, WATER METERS AND SEWER HOOKUPS, WHERE APPLICABLE, MAY HAVE ACQUIRED PRESCRIPTIVE EASEMENTS AND THEREFORE ARE NOT SHOWN AS ENCROACHMENTS, EXCEPT AS NOTED.
3) ENCROACHMENTS OR EXCROACHMENTS AS SHOWN HEREON ARE BASED ON VISUALLY OBSERVED POSSESSION AND ARE SUBJECT TO REVIEW IF PROVEN OTHERWISE. UNDERGROUND ENCROACHMENTS IF ANY ARE NOT LOCATED.
4) ADDITIONS OR DELETIONS TO THIS SURVEY MAP BY OTHERS THAN THE SIGNING PARTY IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY.
5) THIS SURVEY IS NOT ASSIGNABLE.
6) THIS SURVEY SUBJECT TO A TITLE SEARCH.
7) NO PARTY WALL AGREEMENT FURNISHED.



ABBREVIATIONS

NAVD = NATIONAL ADJUSTED VERTICAL DATUM
O.R. = OFFICIAL RECORDS BOOK-PAGE
F.D.O.T. = FLORIDA DEPARTMENT OF TRANSPORTAION
TIIF = TRUSTEES OF THE INTERNAL IMPROVEMENT FUND OF THE STATE OF FLORIDA
PB = PLAT BOOK-PAGE OF MONROE COUNTY, FLORIDA PUBLIC RECORDS
C.M.U.S. = CONCRETE MASONRY UNIT STRUCTURE
-P-T-C- = AERIAL POWER, TELEPHONE, AND/OR CABLE LINES
A.M.H.W.L. = APPROXIMATE MEAN HIGH WATER LINE
EL. = ELEVATIONS (SHOWN THUS X #.##)

A.K.A.	= ALSO KNOWN AS	P.C.	= POINT OF CURVE
ENC.	= ENCROACHMENT	P.I.	= POINT OF INTERSECTION
C.L.F.	= CHAIN LINK FENCE	P.T.	= POINT OF TANGENT
CONC.	= CONCRETE	℄	= CENTERLINE
R/W	= RIGHT-OF-WAY	A/C	= AIR CONDITIONER
(P)	= PLAT	BALC.	= BALCONY
(M)	= MEASURED	CANT.	= CANTILEVER
(C)	= CALCULATED	TYP.	= TYPICAL
(D)	= DEED/DESCRIPTION	'LY.	= ERLY
P.O.C.	= POINT OF COMMENCEMENT	I.D.	= IDENTIFICATION
P.O.B.	= POINT OF BEGINNING	R.M.	= REFERENCE MONUMENT
P.O.T.	= POINT OF TERMINUS	NO.	= NUMBER

WPB = WOOD PUMP BOX
P.V.C. = POLYVINYL CHLORIDE
SD = STORM DRAIN
STMH = STORM MAN HOLE
CB = CATCH BASIN
BFV = BACK FLOW VALVE
WM = WATER METER
IR VHH = IRRIGATION VALVE HAND HOLE
LP = LIGHT POLE
FH = FIRE HYDRANT

LEGEND

- = FOUND CONTROL POINT 40d NAIL/PK/NUT
- = SET CONTROL POINT SS SCREW/DISC#4906
- = FOUND 3/4" PIPE /SIZE/CAP TYPE
- = SET 3/4" PIPE /LS#4906
- = FOUND 5/8" REBAR /SIZE/CAP TYPE
- = PERMANENT REFERENCE MONUMENT
- = POWER POLE /BENCH MARK
- = INDICATES CONCRETE
- = BROKEN LINE (NOT TO SCALE)

Date Survey completed 02/14/20
BOUNDARY & TOPOGRAPHIC SURVEY
FOR THE BENEFIT OF:
THE CITY OF KEY COLONY BEACH

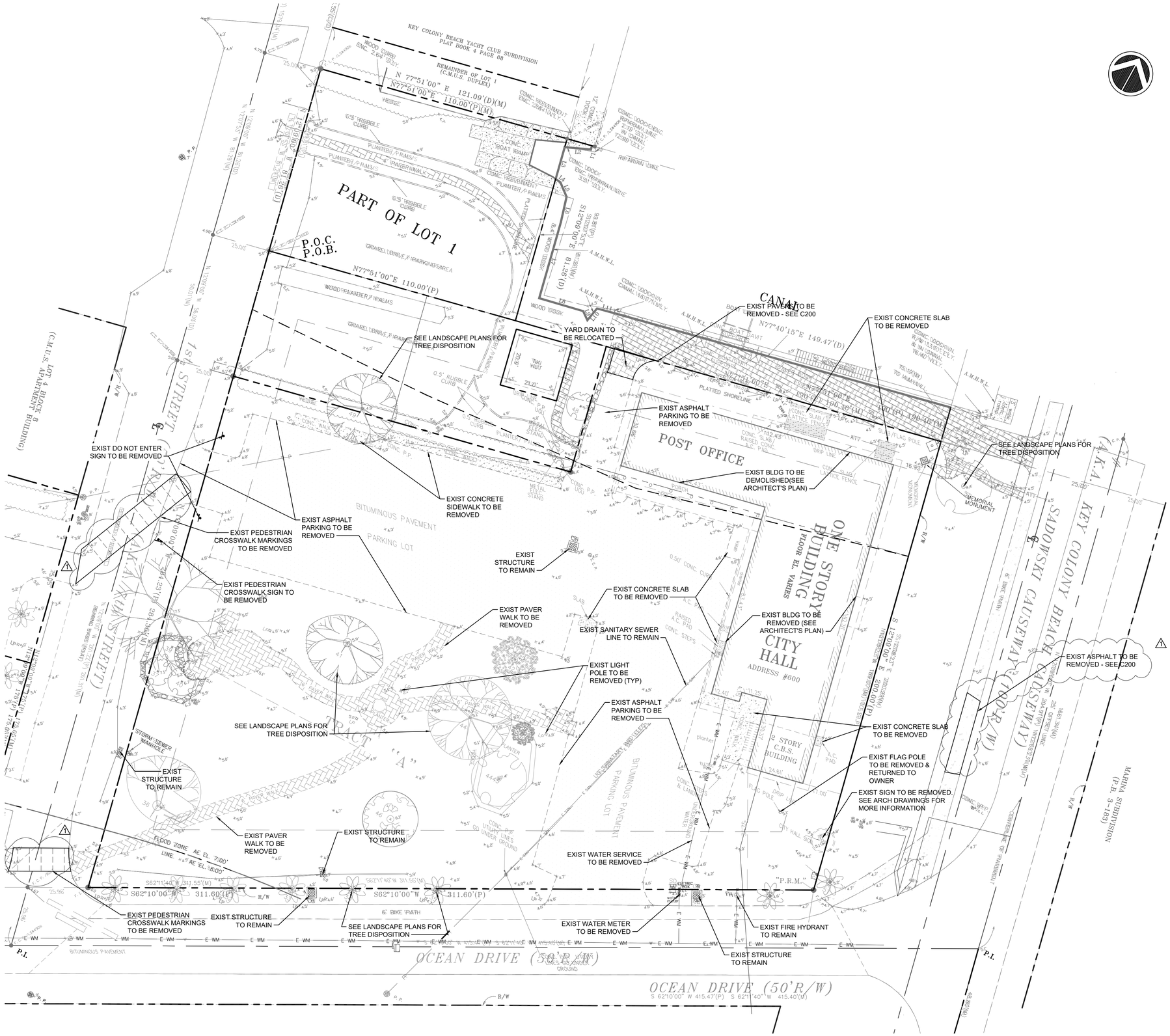
NOT VALID WITHOUT SIGNATURE AND THE ORIGINAL RASIED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

JOHN PAUL GRIMES, III, REGISTERED FLORIDA SURVEYOR & MAPPER, NO. 4906

J.P. GRIMES, SURVEYOR AND MAPPER
P.O. BOX 510403 #14 6th STREET
KEY COLONY BEACH, FL. 33051-0403
PH. (305) 743-4510
FAX (305) 743-3277

P.N. 200110TOPO | CG/JG

THE SURVEY DEPICTED HERE IS NOT COVERED BY PROFESSIONAL LIABILITY INSURANCE


KEY COLONY BEACH YACHT CLUB SUBDIVISION
PLAT BOOK 4 PAGE 68
REMAINDER OF LOT 1
(C.M.U.S. DUPLEX)
N 77°51'00" E 121.09'(D)(M)
N77°51'00"E 110.00'(P)(M)
PART OF LOT 1
P.O.C.
P.O.B.
N77°51'00"E 110.00'(P)
CANAL
N77°40'15"E 149.47'(D)
N77°40'15"E 149.47'(D)
100'(P) 100.00'(M)
POST OFFICE
ONE STORY BUILDING
CITY HALL
ADDRESS #600
2 STORY C.B.S. BUILDING
MEMORIAL MONUMENT
"MEMORIAL MONUMENT"
TIKI HUT
BOAT RAMP
BOAT DAVIT
FLAG POLE
PLATED SHORELINE
SEAWALL
RIPARIAN LINE
A.M.H.W.L.
WOOD CURB
CONC. CURB
CONC. SIDEWALK
CONC. SLAB
RAISED CONC. PAD
CONC. STEPS
WOOD PLANTER / HEDGES
GRAVEL DRIVE / PARKING AREA
PLANTERS / RAISED
PAVER WALKWAY
0.5' RUBBLE CURB
METAL STAND
PORCH
CONC. P.P.
UTILITY P.P.
CONC. W.M.
CONC. MANHOLE
CONC. VAULT
CONC. HEADWALL
CONC. DOCK/SEAWALL
CONC. DOCK/CANAL
CONC. DOCK/RIPARIAN LINE
CONC. DOCK/PARTIALLY ON PROPERTY
CONC. DOCK/PARTIALLY ON LINE
CONC. DOCK/PARTIALLY ON LINE
CONC. DOCK/PARTIALLY ON LINE

PHASING NOTES:

1. CONTRACTOR TO ADJUST LIMITS OF SILT FENCE ACCORDING TO THE CONSTRUCTION PROGRESS OF THE PROJECT.
2. CONTRACTOR RESPONSIBLE FOR ACQUIRING NOI WITH FDEP AND TO UPDATE STORM WATER POLLUTION PREVENTION PLAN AS REQUIRED.

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER".

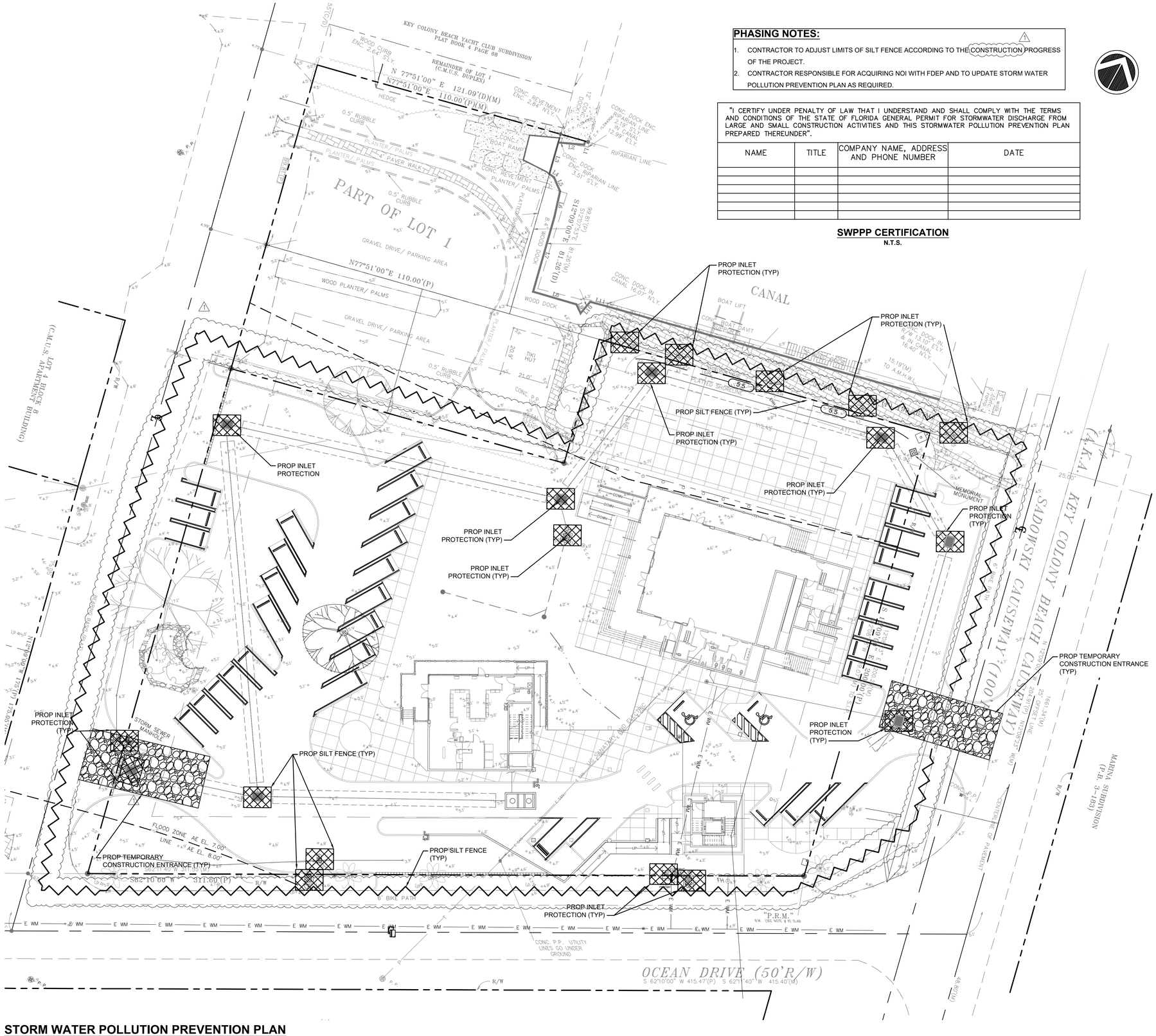
NAME	TITLE	COMPANY NAME, ADDRESS AND PHONE NUMBER	DATE

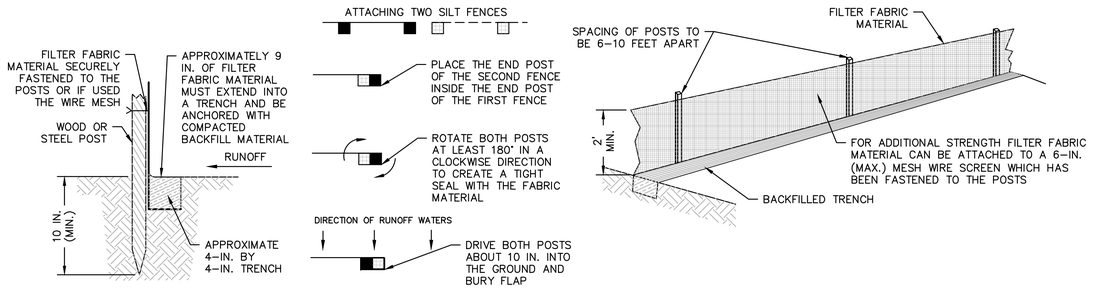
SWPPP CERTIFICATION

N.T.S.

LEGEND

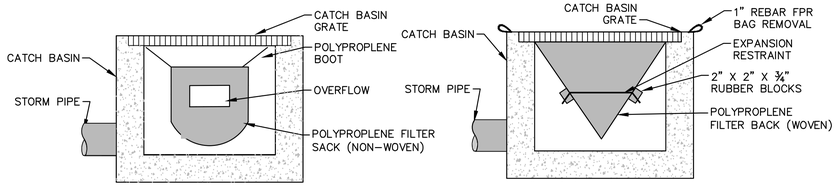
- PROPERTY LINE
- EXISTING CONCRETE SIDEWALK
- EXISTING BRICK WALKWAY
- EXISTING GRADES
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- INLET PROTECTION
- TEMPORARY CONSTRUCTION ENTRANCE/TRACKING AREA
- SILT FENCE


PART OF LOT 1
KEY COLONY BEACH YACHT CLUB SUBDIVISION PLAT BOOK 4 PAGE 68
REMAINDER OF LOT 1 (C.M.U.S. DUPLEX)
N 77°51'00" E 121.09'(D)(M)
N77°51'00"E 110.00'(P)(M)
N77°51'00"E 110.00'(P)
GRAVEL DRIVE/ PARKING AREA
WOOD PLANTER/ PALMS
0.5' RUBBLE CURB
4' PAVER WALK
CONC. BOAT RAMP
CONC. REVETMENT
CONC. DOCK ENC. 2.84' N'LY
CONC. DOCK ENC. RIPARIAN LINE 2.19' S'LY & 1.99' E'LY
CONC. DOCK RIPARIAN LINE 3.51' S'LY
WOOD DOCK
CONC. DOCK IN CANAL 16.07' N'LY
CANAL
BOAT LIFT
CONC. BOAT DAVIT
PLATED SHORELINE
TIKI HUT
29.9'
21.0'
LOT 4, BLOCK 8 (C.M.U.S. APARTMENT BUILDING)
PROP INLET PROTECTION
PROP INLET PROTECTION (TYP)
PROP SILT FENCE (TYP)
PROP TEMPORARY CONSTRUCTION ENTRANCE (TYP)
STORM SEWER MANHOLE
FLOOD ZONE LINE AE EL. 7.00' AE EL. 8.00'
S62°10'00"W 311.00'(P)
S 62°10'00" W 311.00'(P)
E WM
E W
E WM
E WM
E WM



SILT FENCE DETAIL

N.T.S.



NON-WOVEN POLYPROPLENE SACK | **WOVEN POLYPROPLENE SACK**

NOTES:

1. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER FABRIC INLET SACKS TO BE DETERMINED BY MANUFACTURER.

NON-WOVEN CATCH BASIN INSERT INLET PROTECTION

N.T.S.

GENERAL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON–SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION – ON–SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES. ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST MANAGEMENT PRACTICES (BMP) AND MOST CURRENT EROSION AND SEDIMENT CONTROL PRACTICES. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.

PRE–CONSTRUCTION SITE PROTECTION:

6. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
7. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE–THIRD (1/3) THE HEIGHT OF THE BARRIER OR INLET. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
8. ALL DISTURBED AREAS ARE TO BE STABILIZED THROUGH COMPACTION. SILT SCREENS, SYNTHETIC BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.

SITE PROTECTION:

9. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED PROPERLY. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 6 INCHES. BARRIER IS STAKED, THE EXCAVATED SOIL OR GRAVEL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER. USING WIRE BACKING FOR SUPPORT IS DISCOURAGED DUE TO DISPOSAL PROBLEMS.
10. WATER OR SLURRY USED TO CONTROL DUST SHALL BE RETAINED ON THE SITE AND NOT ALLOWED TO RUN DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.
11. SPECIAL AREAS SHALL BE DESIGNATED AS VEHICLE AND EQUIPMENT WASHING AREAS AND SUCH AREAS SHALL NOT ALLOW RUNOFF TO FLOW DIRECTLY INTO WATERCOURSE OR STORMWATER CONVEYANCE SYSTEMS.
12. SILT FENCE BARRIERS ARE NOT TO BE USED WHERE CONCENTRATED FLOWS OF WATER ARE ANTICIPATED SUCH AS DRAINAGE DITCHES. AROUND INLETS OR ABOVE/BELOW WERE CULVERTS DISCHARGE.
13. SYNTHETIC BALES, SANDBAGS OR OTHER APPROVED DEVICE FACED WITH FILTER FABRIC SHALL BE USED IN HIGH VOLUME AREAS TO DECREASE THE RUNOFF VELOCITY AND SHALL BE SECURELY ANCHORED.
14. ALL DEVICES INCLUDING SILT FENCE. FILTER BARRIERS. SYNTHETIC BALES AND/OR SANDBAGS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BARRIERS. END RUNS AND UNDERCUTTING BENEATH BARRIERS.
15. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
16. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

STORM DRAIN INLET PROTECTION:

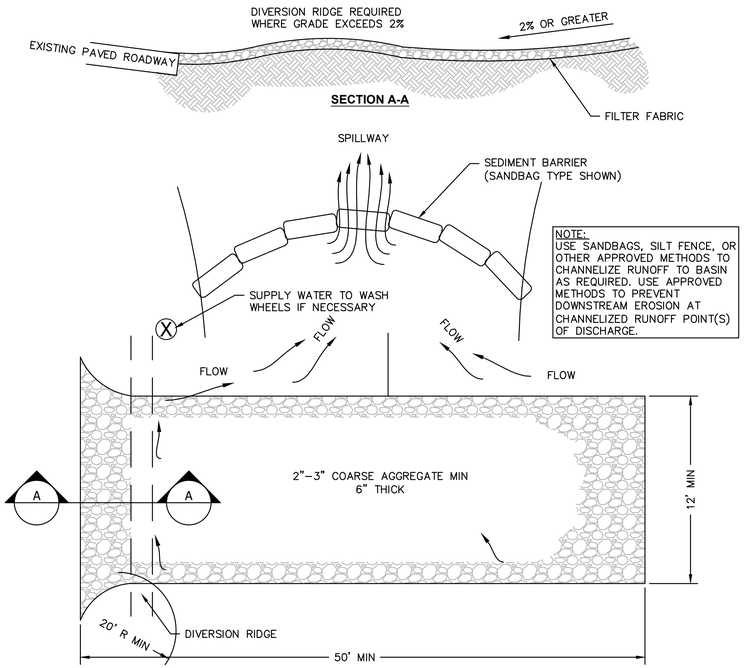
17. 2 INCH – 3 INCH COARSE AGGREGATE SHALL BE PLACED OVER THE FILTER FABRIC. THE DEPTH OF STONE SHALL BE AT LEAST 6 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
18. IF STONE FILTERS BECOME CLOGGED WITH SEDIMENT SO THAT THEY NO LONGER ADEQUATELY PERFORM THEIR FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.

POST–CONSTRUCTION SITE PROTECTION:

19. ALL DEWATERING, EROSION AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE STABILIZED.
20. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER TEMPORARY BARRIERS ARE. NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN SUCH A MANNER THAT IT WILL NOT ERODE.
21. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
22. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.

STORM WATER POLLUTION PREVENTION PLAN DETAILS

1"=20' 0 20' 40'



SECTION A-A

PLAN

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING AND FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS–OF–WAY. THIS MAY REQUIRE TOP DRESSING REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS–OF–WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONED THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY CONSTRUCTION ENTRANCE

N.T.S.

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Certificate of Authorization No. 8459

CITY OF KEY COLONY BEACH | CITY HALL
600 W. Ocean Dr. . Key Colony . Florida 33051

LIVS project number:
201913

Client project number:
-

sheet title
STORM WATER POLLUTION PROTECTION DETAILS

revisions

issued for:
F BID SET

issue date:
05/01/23

drawn by:	approved by:
LER/YP	RDC

scale:
1" = 20'

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ROSANA D. CORDOVA LICENSE No. 41864 STATE OF FLORIDA PROFESSIONAL ENGINEER

sheet number
C115

sheet:
03 of 13

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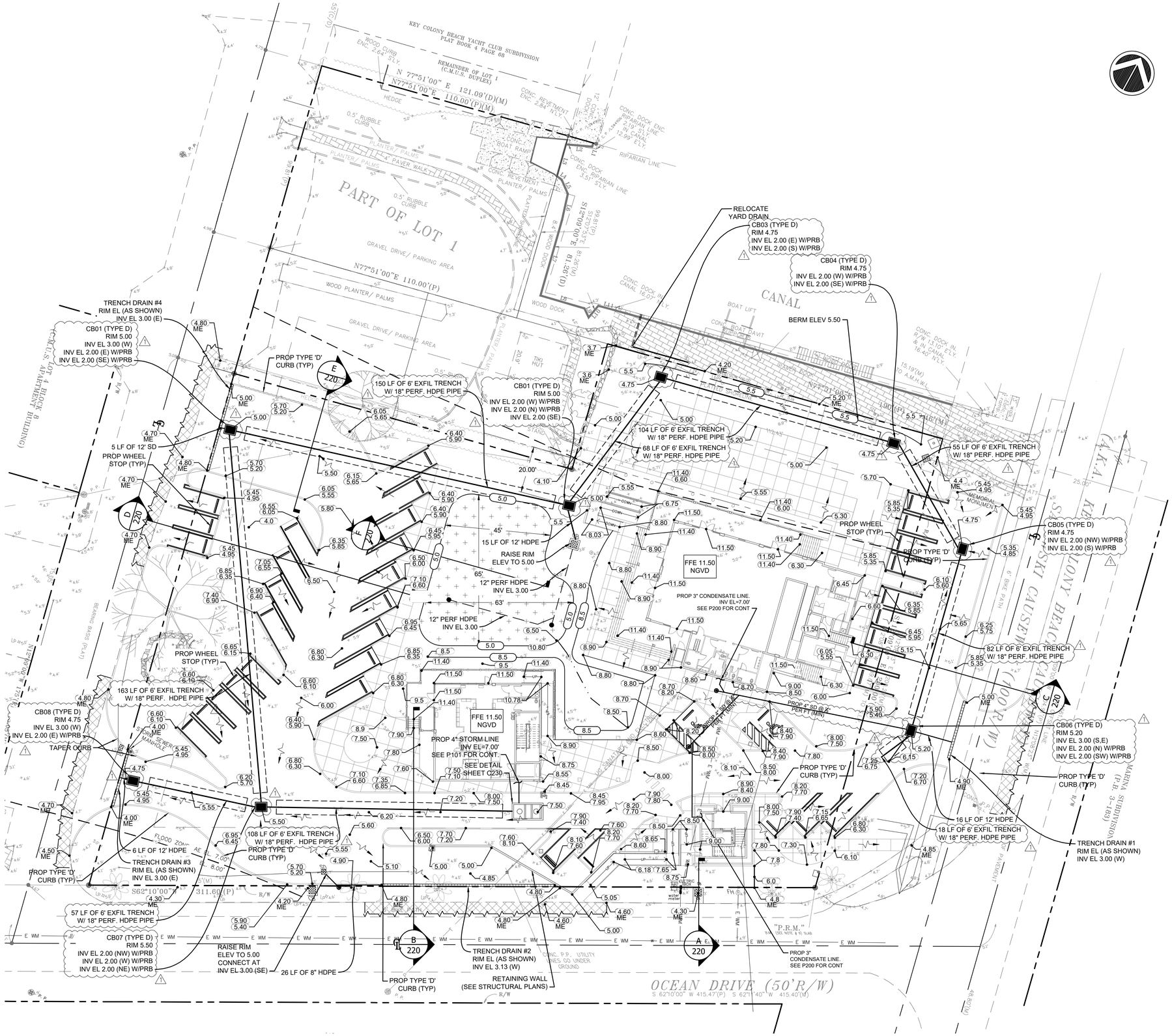

PAVING GRADING AND DRAINAGE PLAN

1"=20' 0 20' 40'

LEGEND

- LIMITED ACCESS LINE
- PROPERTY LINE
- CONCRETE SIDEWALK
- PROPOSED ASPHALT
- PROPOSED CATCH BASIN, DRAINAGE PIPE AND EXFILTRATION TRENCH
- EXISTING GRADES (+0.00)
- PROPOSED GRADES (0.00)
- PROPOSED GRADE / TOP CURB (0.00 / 0.00)
- EXFILTRATION SWALE
- SAW CUT LINE
- PAVEMENT RESTORATION

GRADING / PAVING NOTES:

1. THE LOCATION, SIZE, AND MATERIAL OF EXISTING UTILITIES HAVE BEEN DETERMINED FROM AVAILABLE RECORDS. THE OWNER AND THE ENGINEER DO NOT GUARANTEE THE ACCURACY OF THIS DATA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL THE EXISTING UTILITIES AND STRUCTURES ENCOUNTERED DURING CONSTRUCTION.
2. CONTRACTOR SHALL VERIFY PROPER CLEARANCE BELOW EXISTING OVERHEAD POWER LINES PRIOR TO WORKING WITHIN THE VICINITY OF THE POWER LINES.
3. ANY DISCREPANCY BETWEEN THIS PLAN AND THE ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCING ANY CONSTRUCTION WORK.
4. ALL EXISTING AND NEW COVER, FRAMES, GRATES, ETC.. SHALL BE ADJUSTED TO MATCH FLUSH WITH NEW GRADES OF PAVEMENT OR CONCRETE SIDEWALKS.
5. MAINTAIN THE EXISTING UTILITY SERVICES AT ALL TIMES.
6. NEW PAVEMENT TO MEET AND MATCH WITH EXISTING IN A NEAT STRAIGHT LINE. CONTRACTOR TO ROUND AND ADJUST SLOPES AS REQUIRED IN FIELD TO AVOID BUMPS, CAREFULLY GRADE AREA TO DRAIN TO INLETS.
7. CONTRACTOR TO RESTORE ANY EXISTING CONCRETE SIDEWALK, ASPHALT PAVEMENT, LANDSCAPE, ETC. DISTURBED DURING THE CONSTRUCTION.
8. COORDINATE PAVING, GRADING AND DRAINAGE WORK WITH OTHER UTILITIES IN THIS PROJECT.
9. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH SPECIFICATION AND STANDARD REQUIREMENTS OF CITY OF KEY COLONY BEACH AND ALL OTHER LOCAL & NATIONAL CODES AS APPLICABLE.
10. ALL ELEVATIONS ARE RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
11. TOPOGRAPHIC INFORMATION BASED ON SURVEY BY JP GRIMES SURVEYOR AND MAPPER, DATED 02/14/2020.

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CITY OF KEY COLONY BEACH | CITY HALL
800 W. Ocean Dr. - Key Colony Florida 33051

LIVS project number:
201913

Client project number:
-

sheet title
PAVING, GRADING AND DRAINAGE PLAN

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1	08/11/2022 REV1

issued for:
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05/01/23

drawn by:	approved by:
LER/YP	RDC

scale:
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sheet number
C200

sheet:
04 of **13**

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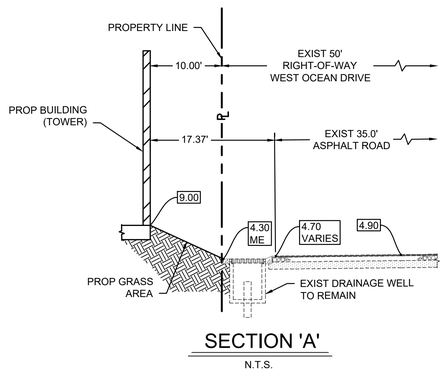

SECTION 'A'

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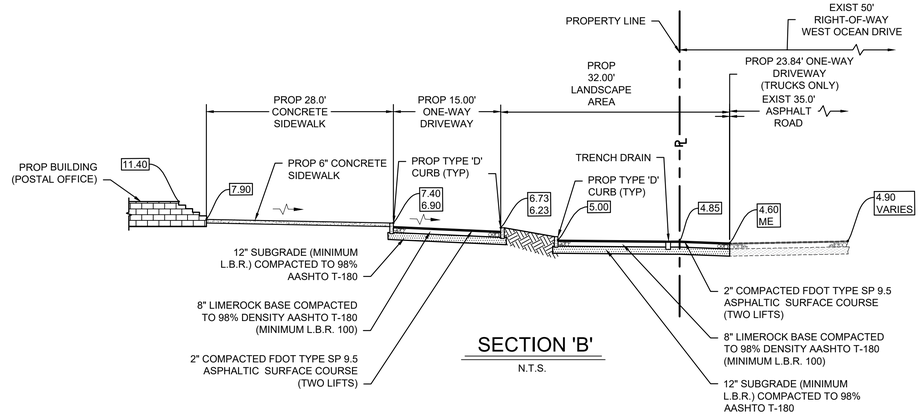

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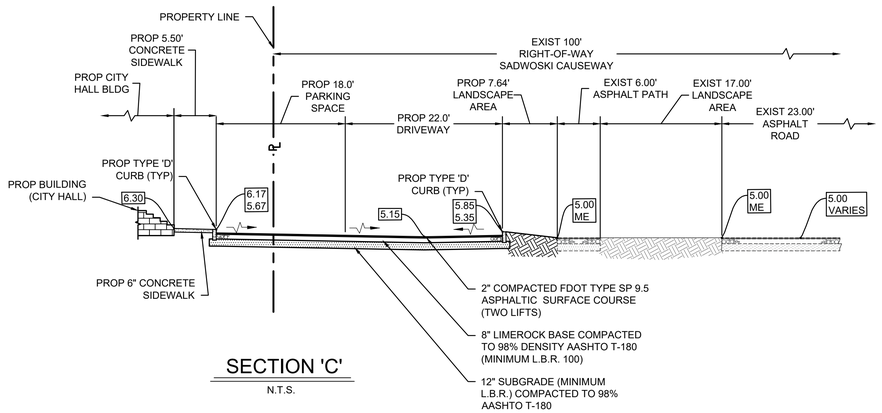

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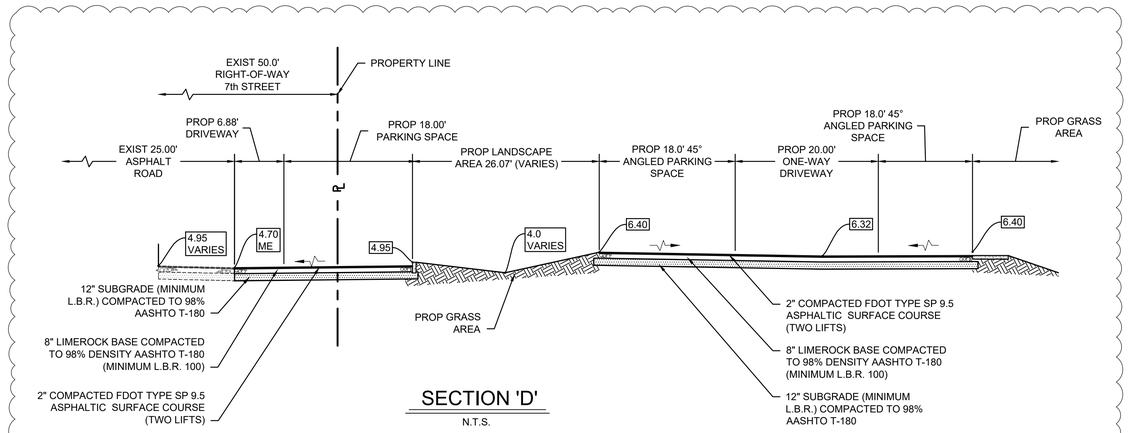

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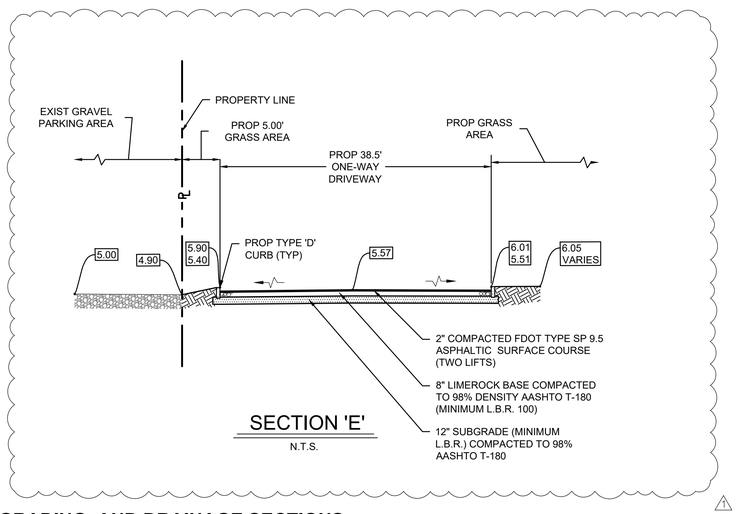

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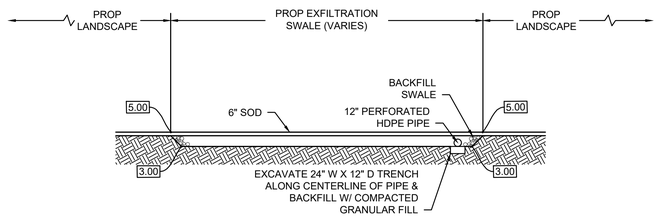

SECTION 'F'

N.T.S.

PAVING, GRADING, AND DRAINAGE SECTIONS
N.T.S.

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CITY OF KEY COLONY BEACH | CITY HALL

800 W. Ocean Dr. - Key Colony - Florida 33051

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revisions

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BID SET

issue date:
05/01/23

drawn by:	approved by:
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sheet number
C220

sheet:
05 of 13

Plot Date: 5/1/2023, 5:31:31 PM Username: ENGR Layout Name: C220 Saved on:5/1/2023 5:30 PM TAB:C220
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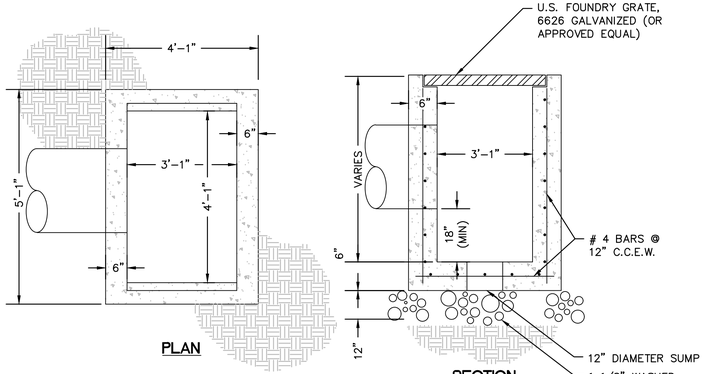
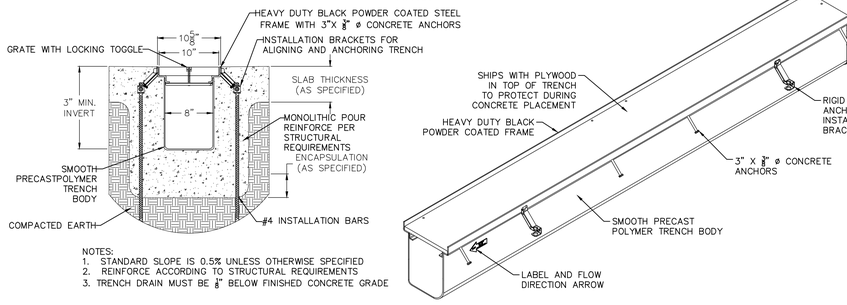


CATCH BASINS SHALL HAVE 12" DIAMETER OPEN SUMPS FILLED W/ WASH GRADE ROCK NO LARGER THAN 1 1/2"

TYPE 'D' CATCH BASIN

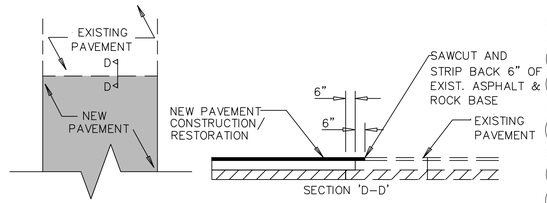
N.T.S.



DTPF8-HDBP15ZSA OR APPROVED EQUAL

TRENCH DRAIN SYSTEM

N.T.S.



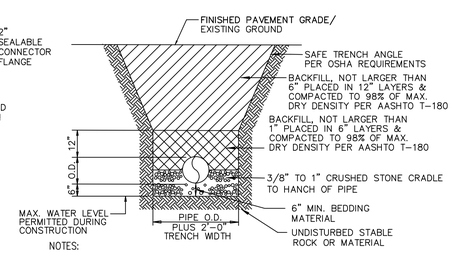
ASPHALT TIE-IN

N.T.S.

PAVEMENT SPECIFICATIONS:

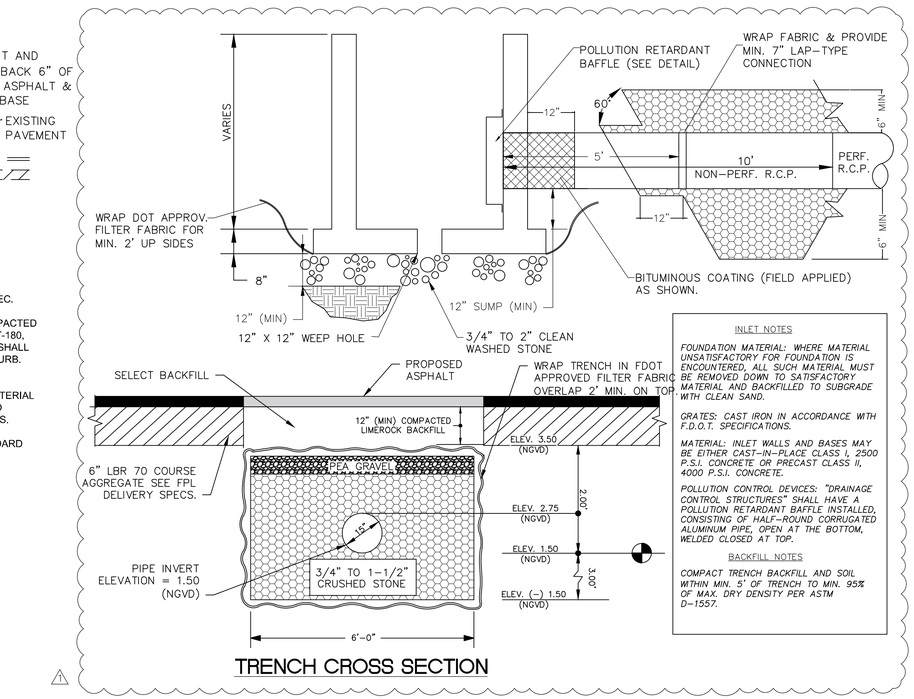
SURFACE COURSE: 2" SP-9.5 ASPHALT CONCRETE SURFACE ON-SITE PER F.D.O.T. SPEC. SECTION 320, 330, 331.

1. ROCK BASE: 8" BASE LIMEROCK EQUIPMENT AISLE, DRIVEWAY PRIMED AND COMPACTED TO 98% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT PER AASHTO T-180, AND HAVING A MINIMUM LBR OF 100. MINIMUM CALCIUM CARBONATES CONTENT SHALL BE 70%. ROCK BASE TO EXTEND 6" BEYOND EDGE OF PAVEMENT OR BACK OF CURB. (PER F.D.O.T. SPECS SECTION 200).
2. SUBGRADE: 12" STABILIZED GRANULAR MATERIAL COMPACTED TO 98% MAX. DRY DENSITY AT OPTIMUM MOISTURE CONTENT PER AASHTO T-180. IF EXISTING MATERIAL PROVIDES MINIMUM LBR OF 40, STABILIZATION IS NOT REQUIRED. SUBGRADE TO EXTEND 12" BEYOND EDGE OF PAVEMENT OR BACK OF CURB. (PER F.D.O.T. SPECS. SECTION 160)
3. F.D.O.T. SPECS: DENOTES FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.



PIPE BEDDING/BACKFILL DETAIL

N.T.S.



TRENCH CROSS SECTION

EXFILTRATION TRENCH DETAIL

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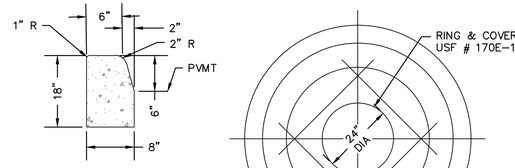


TYPE 'D' CURB DETAIL

NTS

MANHOLE TOP SLAB PLAN

MANHOLE NOTES

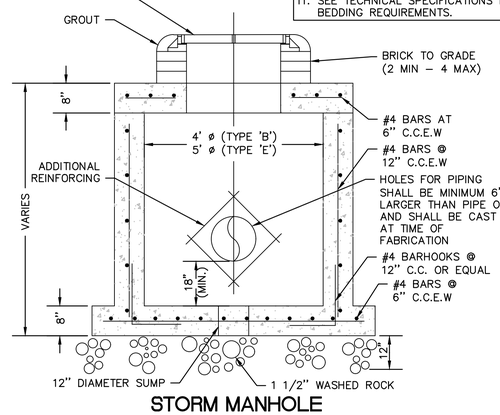
1. PRECAST CONCRETE TYPE II 4000 PSI
2. LIFT HOLES THROUGH PRECAST STRUCTURES ARE NOT PERMITTED.
3. "RAM-NEK" OR APPROVED EQUAL AT ALL RISER JOINTS (1/2"THICK WITH WIDTH AT LEAST 1/2 THE WALL THICKNESS) WITH GROUT ON INSIDE AND OUTSIDE.
4. ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF, NON-SHRINK GROUT.
5. IF TWO CAGES OF WIRE MESH ARE USED, ONE SHALL BE POSITIONED 3" FROM THE INSIDE SURFACE AND ONE 2" FROM THE OUTSIDE SURFACE. IF A SINGLE CAGE OF REBAR IS USED, IT SHALL BE CENTERED WITHIN WALL THICKNESS. NO EXPOSED STEEL SHALL BE PERMITTED.
6. WALL REINFORCEMENTS ASTM DESIGNATION A185-64 (LATEST REVISION)(MIN.)
7. MANHOLES SHALL CONFORM TO ASTM C478 (MIN.)
8. A MINIMUM OF SEVEN DAYS CURE TIME IS REQUIRED PRIOR TO DELIVERY.
9. ALL PIPE HOLES SHALL BE PRECAST.
10. 10. ANY VISIBLE REINFORCING WIRE, STEEL OR HONEYCOMBS SHALL BE CAUSE FOR REJECTION.
11. SEE TECHNICAL SPECIFICATIONS FOR BEDDING REQUIREMENTS.

TYPE II SKIMMER FOR FRENCH-DRAIN OUTLETS
N.T.S.

POLLUTION RETARDANT BAFFLE DETAIL

NTS

US FOUNDRY RING & COVER/FRAME & GRATE (OR APPROVED EQUAL)



STORM MANHOLE DETAIL

NTS

PAVING DRAINAGE AND GRADING DETAILS
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600 W Ocean Dr. - Key Colony Florida 33051

LIVS project number:
201913

Client project number:
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sheet title
PAVING DRAINAGE AND GRADING DETAILS

revisions
1 08/11/2022 REV1

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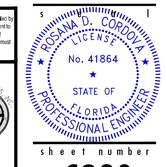

sheet number
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06 of 13

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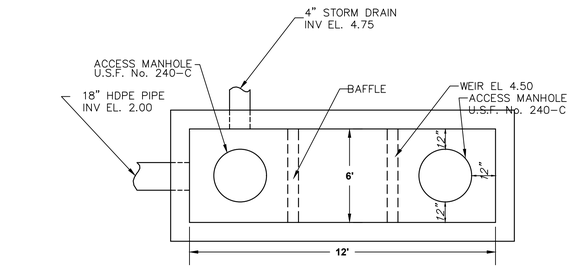

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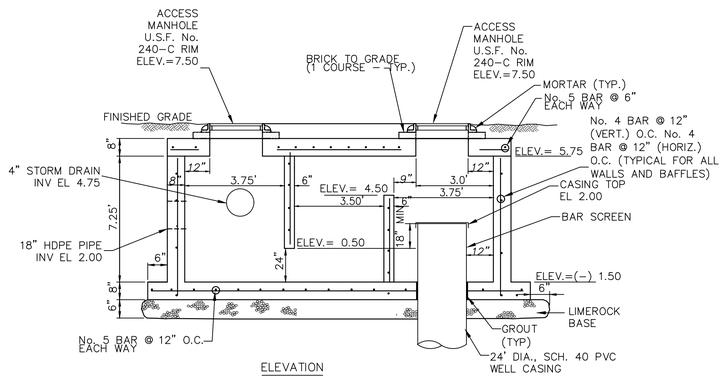

ELEVATION

DRAINAGE WELL

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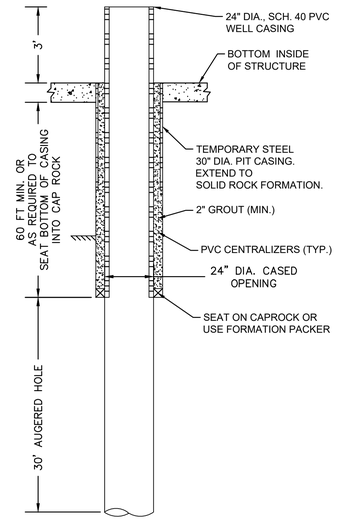

STORM WATER INJECTION WELL

N.T.S.

PAVING DRAINAGE AND GRADING DETAILS

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DRAINAGE WELL DETAILS

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C231

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07 of 13

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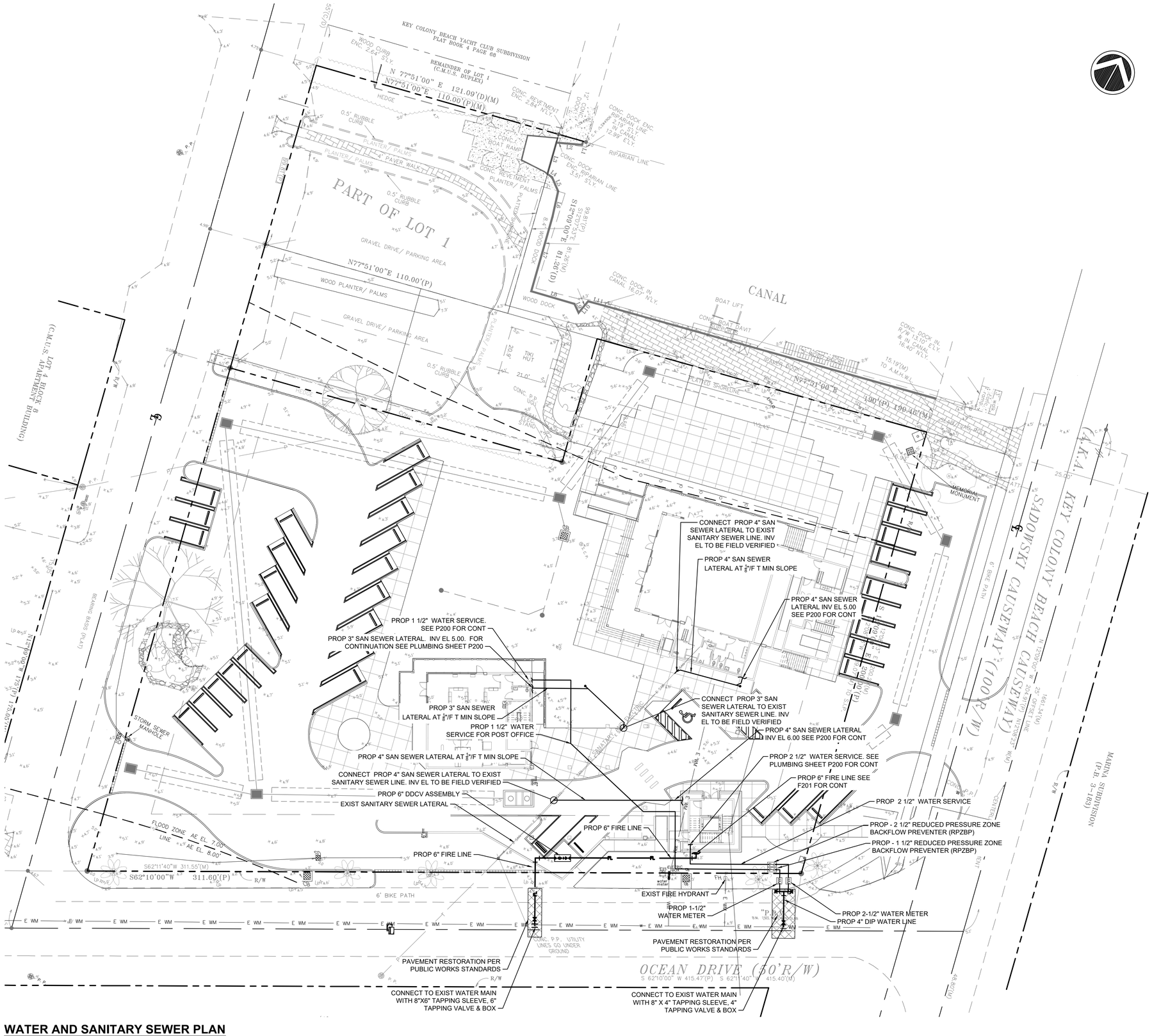
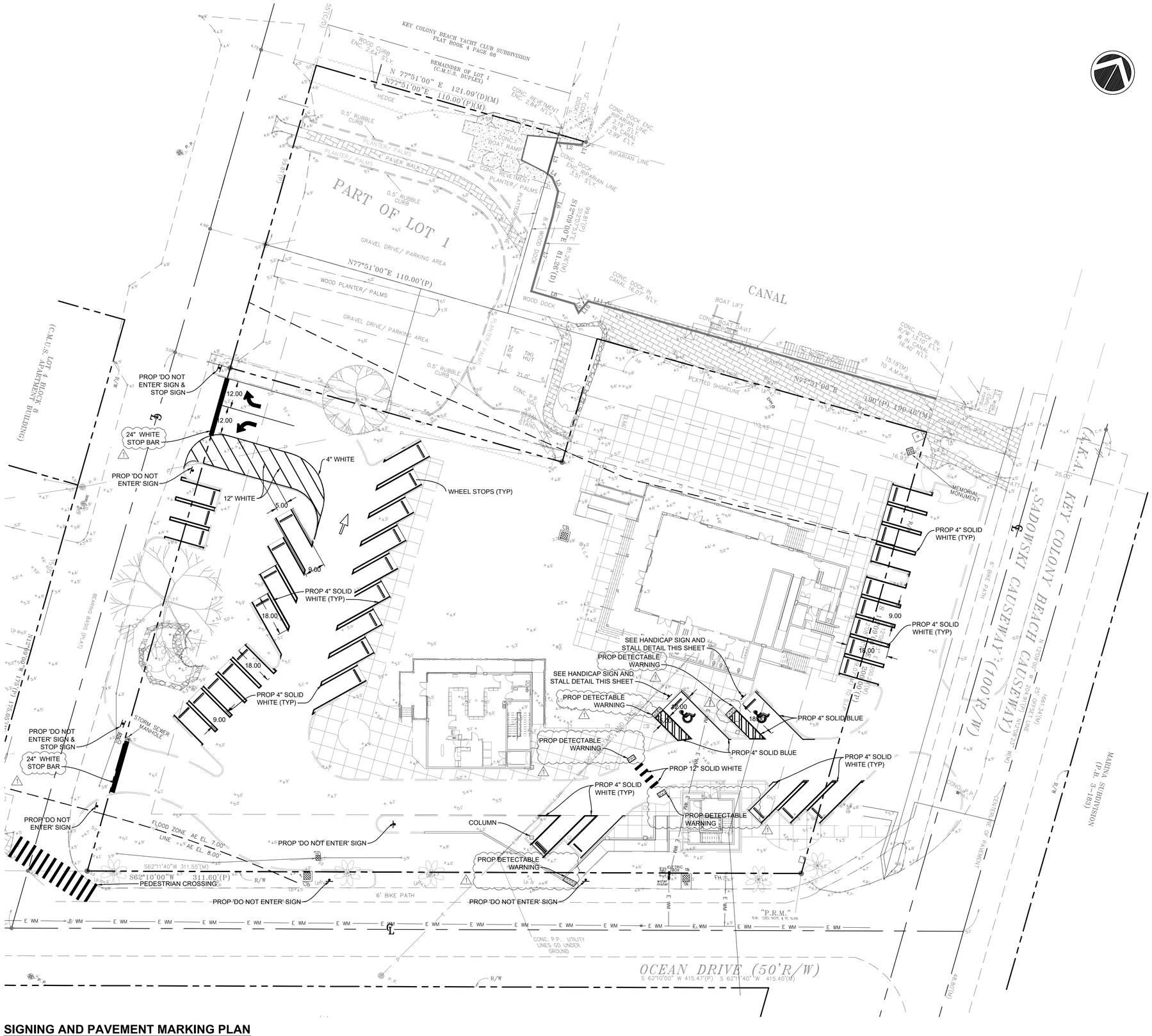

KEY COLONY BEACH YACHT CLUB SUBDIVISION
PLAT BOOK 4 PAGE 68
WOOD CURB
ENC. 2.62' S'LY
REMAINDER OF LOT 1
(C.M.U.S. DUPLEX)
N 77°51'00" E 121.09'(D)(M)
N77°51'00"E 110.00'(P)(M)
HEDGE
0.5' RUBBLE CURB
PLANTER / PALMS
4' PAVER WALK
CONC. REVETMENT
ENC. 2.84' N'LY
CONC. BOAT RAMP
CONC. DOCK ENC. RIPARIAN LINE 2.19' S'LY. IN CANAL 1.99' E'LY.
RIPARIAN LINE
CONC. DOCK ENC. RIPARIAN LINE 3.51' S'LY.
PART OF LOT 1
GRAVEL DRIVE/ PARKING AREA
N77°51'00"E 110.00'(P)
WOOD PLANTER/ PALMS
TIKI HUT
21.0'
29.9'
CONC. P.P.
STAND
WOOD DOCK
CONC. DOCK IN CANAL 16.07' N'LY.
BOAT LIFT
CONC. BOAT DAVIT
CANAL
CONC. DOCK IN CANAL 16.40' N'LY.
15.19'(M) TO A.M.H.W.L.
PLANTED SHORELINE
N77°51'00"E 190'(P) 190.48'(M)
MEMORIAL MONUMENT
CONNECT PROP 4" SAN SEWER LATERAL TO EXIST SANITARY SEWER LINE. INV EL TO BE FIELD VERIFIED
PROP 4" SAN SEWER LATERAL AT 1/8"/F T MIN SLOPE
PROP 4" SAN SEWER LATERAL INV EL 5.00 SEE P200 FOR CONT
PROP 1 1/2" WATER SERVICE. SEE P200 FOR CONT
PROP 3" SAN SEWER LATERAL. INV EL 5.00. FOR CONTINUATION SEE PLUMBING SHEET P200
CONNECT PROP 3" SAN SEWER LATERAL TO EXIST SANITARY SEWER LINE. INV EL TO BE FIELD VERIFIED
PROP 3" SAN SEWER LATERAL AT 1/8"/F T MIN SLOPE
PROP 1 1/2" WATER SERVICE FOR POST OFFICE
PROP 4" SAN SEWER LATERAL INV EL 6.00 SEE P200 FOR CONT
PROP 4" SAN SEWER LATERAL AT 1/8"/F T MIN SLOPE
PROP 2 1/2" WATER SERVICE. SEE PLUMBING SHEET P200 FOR CONT
CONNECT PROP 4" SAN SEWER LATERAL TO EXIST SANITARY SEWER LINE. INV EL TO BE FIELD VERIFIED
PROP 6" FIRE LINE SEE F201 FOR CONT
PROP 6" DDCV ASSEMBLY
EXIST SANITARY SEWER LATERAL
PROP 2 1/2" WATER SERVICE
PROP 6" FIRE LINE
PROP - 2 1/2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZBP)
PROP - 1 1/2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZBP)
PROP 6" FIRE LINE
EXIST FIRE HYDRANT
PROP 1-1/2" WATER METER
PROP 2-1/2" WATER METER
PROP 4" DIP WATER LINE
PAVEMENT RESTORATION PER PUBLIC WORKS STANDARDS
PAVEMENT RESTORATION PER PUBLIC WORKS STANDARDS
CONNECT TO EXIST WATER MAIN WITH 8"X6" TAPPING SLEEVE, 6" TAPPING VALVE & BOX
CONNECT TO EXIST WATER MAIN WITH 8" X 4" TAPPING SLEEVE, 4" TAPPING VALVE & BOX
CONC. P.P. UTILITY LINES GO UNDER GROUND
OCEAN DRIVE (50'R/W)
S 62°10'00" W 415.47'(P) S 62°11'40" W 415.40'(M)
KEY COLONY BEACH CAUSEWAY (100' R/W)
MARINA SUBDIVISION (P.B. 3-189)
(C.M.U.S. LOT 1, BLOCK 8 APARTMENT BUILDING)
STORM SEWER MANHOLE
FLOOD ZONE AE EL. 7.00
LINE AE EL. 8.00
S62°11'40"W 311.55'(M)
S62°10'00"W 311.60'(P)
R/W
6' BIKE PATH
E WM
S 62°10'00" E 190.00'(P) 190.48'(M)
S 27°49'00" W 166.34'(M)
N 27°50'00" W 166.00'(P)
S 62°10'00" E 200.00'(P) 200.00'(M)
N 27°50'00" W 200.00'(P)
S 27°49'00" W 200



LEGEND

- LIMITED ACCESS LINE
- PROPERTY LINE
- CONCRETE SIDEWALK
- SIGN
- DETECTABLE WARNING

PAVEMENT MARKING AND SIGNING NOTES

1. ALL PAVEMENT MARKING SHALL BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
2. ALL PAVEMENT MARKINGS ON PAVER SYSTEMS SHALL BE 3M 380/381 SERIES TAPE OR EQUIVALENT AND APPLIED WITH P60 ADHESIVE AS PER MANUFACTURES SPECIFICATIONS.
3. ALL PAVEMENT MARKINGS AND SIGNING SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AND FDOT DESIGN STANDARDS.
4. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
5. ALL STOP LINES TO BE 4' BEHIND CROSSWALK OR SIDEWALK.
6. PAVEMENT MARKING REFLECTIVITY SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND SHALL HAVE A MINIMUM REFLECTIVITY READING OF 250 MILLICANDELAS FOR WHITE 175 MILLICANDELAS FOR YELLOW.
7. ALL PRODUCTS MUST BE ON FDOT'S APPROVED PRODUCTS LIST (APL).
8. FOR ADDITIONAL INFORMATION OF PAVEMENT MARKING AND SIGNING REFER TO FDOT INDEXES 711-001 AND 700-109.
9. ALL DIRECTIONAL ARROWS SHALL BE IN ACCORDANCE WITH FDOT INDEX 711-001.
10. REFLECTIVE PAVEMENT MARKINGS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH FDOT STANDARD INDEX 706-001.

SIGNING AND PAVEMENT MARKING PLAN

1"=20' 0 20' 40'

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SIGNING AND PAVEMENT MARKING PLAN

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1	08/11/2022 REV1

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sheet number
C400

sheet:
09 of 13

Plot Date: 5/1/2023 5:26:46 PM Username: ENC08 Layout Name: C400 Saved on: 5/1/2023 5:24 PM
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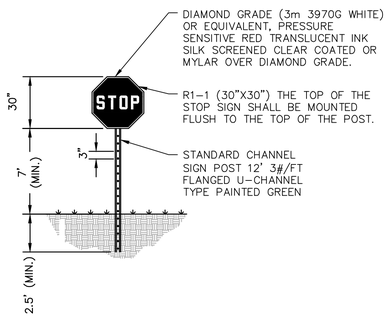

STOP SIGN DETAIL

N.T.S.

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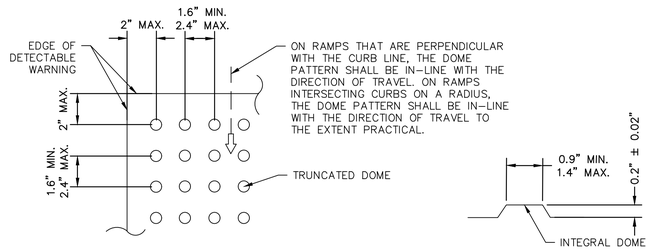


PLAN VIEW

TRUNCATED DOME

NOTE

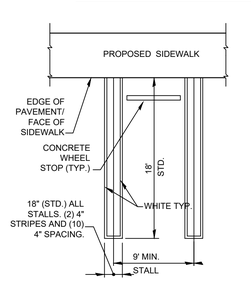
1. ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING TAPE PER FDOT INDEX NO 522-002.
2. BASE-TO-BASE SPACING SHALL BE 0.65" MIN. BETWEEN DOMES.
3. THE TOP WIDTH OF THE DOME SHALL BE MIN. OF 50% AND A MAX. OF 65% OF THE BASE DIAMETER.

SIDE WALK CURB RAMP/DETECTABLE WARNING TAPE

SCALE: NTS

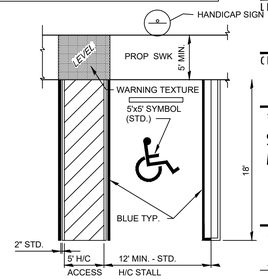
NOTES:

1. ALL PARKING STALLS SHALL BE DOUBLE STRIPED AND ALL STRIPING SHALL BE FOUR (4) INCHES WIDE.
2. HANDICAP ACCESSWAY STRIPING SHALL BE LAID OUT ON 45° ANGLE SPACED AT 4' ON CENTER AS MEASURED ALONG THE ACCESSWAY.
3. PAINT STRIPING SHALL BE INSTALLED AT ALL WALKWAYS IN THE PARKING AREAS.
4. PAINT SHALL BE APPLIED AT A RATE THICK ENOUGH TO PROVIDE SOLID WHITE/BLUE LINES WITH NO LIGHT SPOTS OR PAINT SKIPS (15 MILS MIN.).



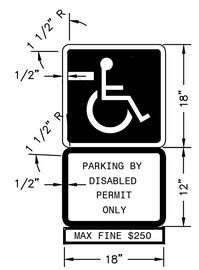
STANDARD PARKING STALL DETAIL

NTS



STANDARD ACCESSIBLE PARKING STALL DETAIL

NTS



FTP-21-06 & FTP 22-06

NOTES

1. TOP PORTION OF FTP 21-06 SHALL HAVE A REFLECTIVE SYMBOL AND BORDER
2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.
3. FTP 21-06 MAY BE FABRICATED ON ONE PANEL OR TWO.
4. ALL LETTERS ARE 1.5" SERIES AT 1.5" SPACING.

SIGN DETAIL

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CITY OF KEY COLONY BEACH | CITY HALL

800 W. Ocean Dr. . Key Colony . Florida 33051

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GENERAL SPECIFICATIONS

I. APPLICABLE CODES:
1. GENERAL: ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY OF KEY COLONY BEACH ENGINEERING DIVISION, MONROE COUNTY ENVIRONMENTAL PROTECTION AND GROWTH MANAGEMENT DEPARTMENT, MONROE COUNTY HEALTH DEPARTMENT, AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE.

2. CONSTRUCTION SAFETY: ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) SHALL BE STRICTLY OBSERVED.

3. SURVEY DATA: THE ELEVATIONS ON THE PLANS OR REFERENCED IN THE SPECIFICATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD).

II. PRECONSTRUCTION RESPONSIBILITIES:
1. UPON RECEIPT OF NOTICE OF AWARD, THE CONTRACTOR SHALL ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE THE CITY OF KEY COLONY BEACH, MONROE COUNTY, THE OWNER, THE ENGINEER AND HIMSELF AFTER OBTAINING A CONSTRUCTION PERMIT FROM THE CITY OF KEY COLONY BEACH.

2. THE CONTRACTOR SHALL OBTAIN A SUNSHINE 811 CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION.

3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, ELEVATION, AND MATERIAL OF ALL EXISTING UTILITIES WITHIN THE AREA OF CONSTRUCTION.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES FOR WHICH HE FAILS TO REQUEST A SUNSHINE CERTIFICATION NUMBER. HE IS RESPONSIBLE AS WELL FOR DAMAGE TO ANY EXISTING UTILITIES WHICH HAVE BEEN PROPERLY LOCATED.

5. IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, WHO WILL IN TURN NOTIFY THE TOWN AND THE CITY.

III. INSPECTIONS:
1. THE CONTRACTOR SHALL NOTIFY THE TOWN, THE CITY AND THE ENGINEER OF RECORD AT LEAST 24 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO ANY INSPECTIONS.

IV. SHOP DRAWINGS:
1. PRIOR TO ISSUANCE OF A CONSTRUCTION PERMIT, A MATERIALS REVIEW LIST SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD AND THE CITY OF KEY COLONY BEACH FOR ALL ITEMS ON APPROVED PRODUCTS LIST AND FOR ITEMS NOT INCLUDED ON THIS LIST.

2. ANY PRODUCT THAT IS NOT ON THIS LIST MUST BE APPROVED IN ADVANCE BY THE ENGINEER OF RECORD AND THE CITY OF KEY COLONY. SUCH APPROVAL REQUIRES THE SUBMISSION OF A SHOP DRAWING (FIVE COPIES) FOR EACH PRODUCT. SHOP DRAWINGS WILL ALSO BE REQUIRED FOR ALL NON-STANDARD ITEMS.

3. INDIVIDUAL SHOP DRAWINGS FOR ALL PRECAST STRUCTURES ARE REQUIRED AND SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER OF RECORD AND THE CITY OF KEY COLONY PRIOR TO ISSUANCE OF A CONSTRUCTION PERMIT.

V. TEMPORARY FACILITIES:

1. TEMPORARY UTILITIES:

A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY TO HIS EMPLOYEES AND SUBCONTRACTORS FOR THEIR USE DURING CONSTRUCTION.

2. TRAFFIC REGULATION:

A. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE MONROE COUNTY.

B. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

C. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE CITY OF KEY COLONY ENGINEERING DIVISION.

VI. PROJECT CLOSEOUT:
1. CLEANING UP:
A. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER. UPON FINAL CLEAN UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.

B. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE BUILDING DEPARTMENT, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR THOSE OF HIS SUBCONTRACTORS TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THIS END, THE CONTRACTOR SHALL DO AS REQUIRED, ALL NECESSARY HIGHWAY OR DRIVEWAY, SIDEWALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.

C. WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, GRAVITY SEWER, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

D. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED AS REQUIRED BY THE MONROE WATER CONTROL DISTRICT.

2. PROJECT RECORD DOCUMENTS:
A. THE CONTRACTOR SHALL MAINTAIN ACCURATE AND COMPLETE RECORDS OF WORK ITEMS COMPLETED.

B. ALL "AS-BUILT" INFORMATION SUBMITTED TO THE ENGINEER SHALL BE SUFFICIENTLY ACCURATE, CLEAR AND LEGIBLE TO SATISFY THE ENGINEER THAT THE INFORMATION PROVIDES A TRUE REPRESENTATION OF THE IMPROVEMENTS CONSTRUCTED.

C. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD THE REQUIRED NUMBER OF SETS OF "AS-BUILT" CONSTRUCTION DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONED LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS AND SHALL BE SIGNED BY THE CONTRACTOR.

D. ALL "AS-BUILT" INFORMATION ON ELEVATIONS, STATIONING OFFSETS AND TIES OF THE WATER, SANITARY SEWER, PAVING AND DRAINAGE SHALL BE CERTIFIED BY A REGISTERED LAND SURVEYOR. WATER AND SEWER "AS-BUILTS" SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY OF KEY COLONY.

E. AS-BUILT INFORMATION ON THE WATER & SEWER SYSTEM SHALL INCLUDE, BUT NOT LIMITED TO, LOCATIONS OF ALL VALVES, FITTINGS, FIRE HYDRANTS, WATER AND SEWER SERVICES, MANHOLES AND TOP-OF-PIPE ELEVATIONS AT 100-FOOT INTERVALS AS A MINIMUM.

EARTHWORK

I. GENERAL

1. NONE OF THE EXISTING MATERIAL IS TO BE INCORPORATED IN THE LIMEROCK BASE.

2. ALL SUBGRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM LBR VALUE OF 40 AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

3. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

4. A 2" BLANKET OF TOP SOIL SHALL BE PLACED OVER ALL AREAS TO BE SODDED.

5. SOD SHALL BE ST. AUGUSTINE, BITTER BLUE OR FLORATAM AND SHALL BE PLACED ON THE GRADED TOPSOIL AND WATERED TO INSURE SATISFACTORY CONDITION UPON FINAL ACCEPTANCE OF THE PROJECT.

6. WHEN WORKING IN AND AROUND EXISTING DRAINAGE CANALS OR LAKES, APPROPRIATE SILT BARRIERS SHALL BE INSTALLED.

7. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN THE RIGHT-OF-WAY AND/OR INGRESS/EGRESS EASEMENT SHALL BE REMOVED.

8. SUITABLE BACKFILL SHALL BE MINIMUM LBR 40 MATERIAL COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 FOR THREE (3) FEET BEYOND THE PERIMETER OF THE PAVING.

STORM DRAINAGE

I. MATERIALS: CONTRACTOR MAY UTILIZE ONE OF THE FOLLOWING MATERIALS..

2. REINFORCED CONCRETE (RCP)

A. CONCRETE PIPE FOR STORM SEWERS SHALL CONFORM TO ASTM L70-79, TABLE III, WALL B, OR LATEST REVISION. ALL PIPE SHALL HAVE MODIFIED TONGUE AND GROOVE JOINTS, AND HAVE RUBBER GASKETS, UNLESS OTHERWISE SPECIFIED.

3. MISCELLANEOUS

A. BEDDING AND INITIAL BACKFILL OVER DRAINAGE PIPE SHALL BE SAND WITH NO ROCK LARGER THAN 1" DIAMETER.

B. BACKFILL MATERIAL UNDER AREAS PAVED AREAS SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

C. BACKFILL MATERIAL UNDER AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

D. CATCH BASINS SHALL BE PRECAST WITH 4000 PSI CONCRETE.

4. INSTALLATION

A. PIPE SHALL BE PLACED ON STABLE GRANULAR MATERIAL FREE OF FORMATION, OTHER FOREIGN FORMATIONS AND CONSTRUCTED TO UNIFORM GRADE AND LINE.

B. BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL WELL TAMPERED IN LAYERS NOT TO EXCEED SIX INCHES (6").

C. PROVIDE A MINIMUM PROTECTIVE COVER OF 18 INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.

D. THE CONTRACTOR SHALL NOTIFY THE LOCAL BUILDING DEPARTMENT AT LEAST 24 HOURS PRIOR TO THE START OF THE CONSTRUCTION AND INSPECTION.

PAVING

I. GENERAL

1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF THE LIMEROCK BASE AND PRIOR TO THE PLACEMENT OF THE PAVEMENT.

2. ALL EXISTING PAVEMENT CUTS OR DAMAGE DUE TO CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.

3. WHERE PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAWCUT.

4. STREET CORNER PAVEMENT RADII SHALL BE 25 FEET UNLESS OTHERWISE NOTED ON THE HORIZONTAL CONTROL PLANS. REFER TO THE HORIZONTAL CONTROL PLAN FOR ADDITIONAL INFORMATION.

5. UPON COMPLETION OF DRAINAGE IMPROVEMENTS AND LIMEROCK BASE CONSTRUCTION (AND BEFORE PLACING ASPHALT PAVEMENT) THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD, THE CITY OF KEY COLONY "AS-BUILT" PLANS FOR THESE IMPROVEMENTS, SHOWING THE LOCATIONS AND THE PERTINENT GRADES OF ALL DRAINAGE INSTALLATIONS AND THE FINISHED ROCK GRADES OF THE ROAD CROWN AND EDGE OF PAVEMENT AT 50-FOOT INTERVALS. THESE AS-BUILTS SHALL BE APPROVED BY THE TOWN PRIOR TO THE PLACEMENT OF ASPHALT.

II. MATERIAL

1. BASE COURSE SHALL BE CRUSHED LIMEROCK MIAMI OOLITE WITH A MINIMUM OF 60% CARBONATES OF CALCIUM AND MAGNESIUM AND A MINIMUM LIMEROCK BEARING RATIO OF 100.

2. PRIME COAT AND TACK COAT SHALL MEET F.D.O.T. STANDARDS AND SPECIFICATIONS.

3. SURFACE COURSE SHALL BE EQUAL TO F.D.O.T. TYPE SP9.5 ASPHALT.

4. REINFORCED CONCRETE SLABS SHALL BE CONSTRUCTED OF CLASS I CONCRETE WITH A MINIMUM STRENGTH OF 3000 PSI AND SHALL BE REINFORCED WITH A 6" X 6" NO. 6 GAUGE WIRE MESH.

III. INSTALLATION

1. LIMEROCK BASE MATERIAL SHALL BE 8 INCHES THICK AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180C.

2. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.

3. ASPHALTIC CONCRETE SHALL BE A MINIMUM OF 2" INCHES THICK AND SHALL BE PLACED IN 1" LIFTS. NOTE THE SECOND LIFT IS TO BE PLACED AS DIRECTED BY THE TOWN OR OWNER.

4. PRIME COAT SHALL BE PLACED ON ALL LIMEROCK BASES IN ACCORDANCE WITH F.D.O.T. STANDARDS.

5. TACK COAT SHALL BE PLACED AS REQUIRED IN ACCORDANCE WITH F.D.O.T. STANDARDS.

IV. TESTING

1. ALL SUBGRADE, LIMEROCK AND ASPHALT TESTS REQUIRED SHALL BE TAKEN AT THE DIRECTION OF THE ENGINEER AND/OR THE CITY OF KEY COLONY.

2. THE FINISHED SURFACE OF THE BASE COURSE AND THAT OF THE WEARING SURFACE SHALL NOT VARY MORE THAN ¼" FROM THE TEMPLATE. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.

3. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA, AND TAKEN AS DIRECTED BY THE ENGINEER AND THE CITY OF KEY COLONY.

4. ALL TESTING COSTS (PAVING) SHALL BE PAID FOR BY THE OWNER EXCEPT THOSE TESTS FAILING TO MEET THE SPECIFIED REQUIREMENTS, WHICH ARE TO BE PAID BY THE CONTRACTOR.

SIGNING AND MARKING

1. ALL PAVEMENT MARKINGS SHALL BE HOT APPLIED THERMOPLASTIC MANUFACTURED AND APPLIED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION'S SECTION 711.

2. ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE CITY OF KEY COLONY AND MANUAL ON UNIFORM TRAFFIC CONTROL
DEVICES.

3. REFLECTIVE PAVEMENT MARKERS SHALL BE CLASS B MARKERS MANUFACTURED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 706 AND INSTALLED IN ACCORDANCE WITH THE
MANUFACTURER'S RECOMMENDED PROCEDURES.

CITY OF KEY COLONY WATER DISTRIBUTION &
SEWAGE COLLECTION SYSTEMS SPECIFICATIONS

WATER MAINS - MATERIALS

I. PIPE

1. ALL PIPE, FITTINGS, AND SPECIALS INTENDED FOR CONVEYING OR TRANSMITTING SERVICE OF TREATED WATER SHALL BE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI.

2. DUCTILE IRON PIPE SHALL CONFORM TO ANSI/AWWA STANDARD C151/A21.51-96 LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS" WITH A MINIMUM WALL THICKNESS OF CLASS 50 FOR 8" AND ABOVE, AND CLASS 52 FOR 4" AND 6" UNLESS OTHERWISE DIRECTED BY THE CITY DURING THE TRANSITION PERIOD. FOR FUTURE PROJECTS ADHERE TO PRESSURE CLASSIFICATION: 4" - 24" - PRESSURE CLASS 350.

3. DUCTILE IRON PIPE SHALL BE DOUBLE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARD C104/A21.4-95 LATEST REVISION. THE PIPE SHALL BE ADAPTED FOR USE WITH CLASS 250 FITTINGS THROUGH 12" AND CLASS 150 FITTINGS IN SIZES 16" AND OVER.

4. PVC PRESSURE PIPE 4" THROUGH 12" SHALL CONFORM TO ANSI/AWWA STANDARD C900-97 LATEST REVISION. PVC PRESSURE PIPE SHALL BE MADE FROM CLASS 12545-A OR CLASS 12454-B MATERIAL AND CONFORM WITH THE OUTSIDE DIAMETER OF CAST IRON PIPE WITH A MINIMUM WALL THICKNESS OF DR SERIES 18 (4" & 6" TO BE DR SERIES 14). ULTRA VIOLET DEGRADATION OR SUN BLEACHED PIP WILL BE CAUSE FOR REJECTION. PVC PRESSURE PIPE, IN SIZES 14" THROUGH 36", SHALL CONFORM TO AWWA/ANSI STANDARD C905-97, SHALL BE OF CLASS 12454-A IR 12454-B VIRGIN COMPOUNDS, SHALL CONFORMT TO THE OUTSIDE DIAMETER OF DUCTILE IRON PIPE AND SHALL HAVE A MINIMUM WALL THICKNESS OF DR SERIES 25.

5. THE USE OF PIPE 4" IN DIAMETER OR SMALLER SHALL ONLY BE PERMTTED WHERE APPROVED BY THE CITY.

6. FLOW CHARACTERISTICS SHALL DETERMINE THE SIZE OF PIPES TO BE USED IN MAINS OVER 6" IN DIAMETER.

7. ASBESTOS CEMENT PIPE SHALL NOT BE PERMITTED ON NEW CONSTRUCTION.

II. FITTINGS

1. CAST IRON AND DUCTILE IRON FITTINGS, SHALL CONFORM TO ANSI/AWWA STANDARD C110 A21.10-98 LATEST REVISION. FITTINGS 4" AND LARGER SHALL BE CEMENT LINED AND SEAL COATED IN ACCORDANCE WITH ANSI/AWWA STANDARD C104 A21.4-95 LATEST REVISION.

2. PVC FITTINGS SHALL BE OF MONOLITHIC CONSTRUCTION AND OF THE TYPE SPECIFIED BY THE MANUFACTURER OF THE PIPE BEING USED AND WILL BE SUBJECT TO APPROVAL BY THE PLANNING & DEVELOPMENT DEPARTMENT. NO SOLVENT WELDS WILL BE PERMITTED.

III. JOINTS

1. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE SHALL CONFORM TO ANSI/AWWA STANDARD C111/A21.11-00 LATEST REVISION. MECHANICAL JOINT OR PUSH-ON JOINT TO BE RUBBER GASKET COMPRESSION TYPE. SPECIAL FITTINGS SHALL BE CONSIDERED FOR SPECIFIC INSTALLATION SUBJECT TO THE APPROVAL OF THE CITY.

2. JOINTS FOR PVC PRESSURE PIPE SHALL BE BELL AND SPIGOT PUSH ON RUBBER GASKET TYPE ONLY. NO SOLVENT WELD OR THREADED JOINTS WILL BE PERMITTED.

3. MECHANICAL RESTRAINT MUST BE PROVIDED ON ALL MAINS IN LIEU OF THRUST BLOCKS AT ALL TEES, HYDRANTS, AND CHANGES IN DIRECTION, UNLESS IT IS DEMONSTRATED THAT SUCH RESTRAINT CANNOT BE ACCOMPLISHED OR WOULD BE UNDESIRABLE.

IV. RESILIENT SEAT VALVES 4" THRU 10"

1. RESILIENT SEAT VALVES SHALL COMPLY WITH AWWA STANDARD C-509-01 LATEST REVISIONS AND SHALL HAVE THE FOLLOWING DESIGN STANDARDS.

2. ALL RESILIENT SEAT VALVES ARE TO BE IRON BODY, RESILIENT SEAT TYPE NON-RISING STEM, OPENING LEFT (COUNTER CLOCKWISE). VALVES SHALL BE FURNISHED WITH "O" RING PACKING (TWO "O" RINGS). THE OPERATING MECHANISM SHALL BE FOR BURIED SERVICE WITH A 2-INCH SQUARE OPENING NUT.

3. VALVE DISC SHALL BE CONTOURED TO ASSURE UNIFORM SEATING.

4. VALVES SHALL BE COATED WITH A TWO-PART THERMOSETTING EPOXY COATING ON INSIDE OF VALVE BODY AND ON VALVE DISC OR AS APPROVED BY THE CITY. THE TYPE OF END CONNECTION SHALL BE DETERMINED BY THE TYPE OF PIPE USED.

5. RESILIENT SEAT VALVES SHALL HAVE A MAXIMUM WORKING PRESSURE OF 200 PSI AND BE TESTED AT 400 PSI BETWEEN DISC SEAT BEING AND BODY SEATING SURFACE. SEAT RING SEALS SHALL BE REPLACEABLE AND MADE FROM INTERNALLY REINFORCED MOLDED NATURAL RUBBER (ASTM D2000). SEAT RING SHALL BE ATTACHED TO DISC WITH STAINLESS STEEL SCREWS.

6. NO LEAKAGE WILL BE ALLOWED.

V. VALVE BOXES

1. VALVE BOXES SHALL BE CAST IRON EXTENSION TYPE WITH NOT LESS THAN 5" DIAMETER SHAFT AND WITH COVERS MARKED "WATER". THE STEM OF BURIED VALVE SHALL BE WITHIN 12" OF FINISHED GRADE UNLESS OTHERWISE SPECIFIED BY THE CITY. VALVE BOXES SHALL BE LOCATED IN RIGHT-OF-WAY AND /OR LOCATED IN UTILITY EASEMENTS. SIZE AND TYPE OF VALVE SHALL BE STAMPED ON A PERMANENT TAG LOCATED AT THE VALVE BOX PER THE STANDARD DETAIL.

2. ALL VALVE BOXES SHALL HAVE 24" X 24" X 8" THICK CONCRETE COLLAR IN ACCORDANCE WITH THE STANDARD DETAIL.

VI. TAPPING SLEEVES AND VALVES

1. STEEL TAPPING SLEEVES SHALL HAVE A WELDED STEEL BODY WITH FLAT FACED STEEL FLANGE, RECESSED FOR A TAPPING VALVE, IN ACCORDANCE WITH MSS STANDARD S.P.-60. GASKETS SHALL BE NEOPRENE "O" RING TYPE WITH SOME TYPE OF GASKET RESTRAINT INCORPORATED IN THE SLEEVE. TEST PLUG SHALL BE PROVIDED ON THE OUTLET THROAT.

2. CAST IRON TAPPING SLEEVES SHALL BE OF THE MECHANICAL JOINT TYPE HAVING A FLAT FACED CAST IRON FLANGE, RECESSED FOR A TAPPING VALVE. ALL END AND SIDE GASKETS SHALL BE TOTALLY CONFINED. THE THROAT SECTION OF TAPPLING SLEEVES THROUGH 12" SIZE SHALL CONFORM TO MSS STANDARD S.P.-60. TEST PLUG SHALL BE PROVIDED ON THE OUTLET THROAT.

3. TAPPING VALVES 4" AND LARGER SHALL COMPLY WITH AWWA STANDARD C-509-01 LATEST REVISION AND SHALL HAVE THE FOLLOWING DESIGN STANDARDS PLUS THE VALVE PORT SHALL BE FREE AND FULL TO ALLOW PASSAGE WITHOUT INTERFERENCE.

4. ALL TAPPING VALVES ARE TO BE IRON BODY, BRONZE MOUNTED, DOUBLE DISC, NONRISING STEM, PARALLEL SEAT TYPE, OPENING LEFT (COUNTER CLOCKWISE). NON-GEARED VALVES SHALL BE FURNISHED WITH "O" RING PACKING (TWO "O" RINGS). THE OPERATING MECHANISM SHALL BE FOR BURIED SERIVCE WITH A 2-INCH SQUARE OPERATING NUT.

5. THE DISC MECHANISM SHALL BE DESIGNED SO THAT THE SEATING PRESSURE IS APPLIED EQUALLY AT FOUR SEPARATE CONTACT POINTS NEAR THE OUTER EDGE OF EACH DISC OR IN THE CASE OF FULLY REVOLVING DISC VALVES, THE SHALL BE ACCOMPLISHED BY TWO FLAT RECTANGULAR CONTACT STRIPS PRODUCING AN EQUIVALENT EFFECT, THE UPPER CONTACT STRIP SHALL BE FACED WITH STAINLESS STEEL.

6. THE TYPE OF END CONNECTION SHALL BE DETERMINED WHERE APPROVED BY THE CITY.

7. TAPPING VALVES 4" - 12" SHALL HAVE A MAXIMUM WORKING PRESSURE OF 200 PSI AND BE TESTED AT 400 PSI. VALVES 16" - 48" SHALL HAVE A MAXIMUM WORKING PRESSURE OF 150 PSI AND BE TESTED AT 300 PSI.

8. WET TAPS SHALL ONLY BE PERMITTED WHERE APPROVED BY THE CITY.

9. SIZE ON SIZE WET TAPS WILL NOT BE PERMITTED.

VII. FIRE HYDRANTS

1. ALL FIRE HYDRANTS SHALL COMPLY WITH AWWA STANDARDS C502-94 LATEST REVISIONS THEREOF AND THE FOLLOWING DESIGN STANDARDS.

2. FIRE HYDRANTS SHALL BE OF THE COMPRESSION TYPE, OPENING AGAINST THE PRESSURE AND CLOSING WITH THE LINE PRESSURE WITH A 5 ¼" MINIMUM VALVE OPENING. THE HYDRANT SHALL BE EQUIPPED WITH 2 - 2-2 ½" HOSE AND 1 - 4 ½" STEAMER NOZZLES TO MEET THE AMERICAN NATIONAL STANDARD HOSE THREAD.

3. HYDRANTS SHALL BE FURNISHED WITH A SEALED OIL OR GREASE RESERVOIR LOCATED IN THE BONNET SO THAT ALL THREADED AND BEARING SURFACES ARE AUTOMATICALLY LUBRICATED WHEN THE HYDRANT IS OPERATED. THE HYDRANT WILL BE DESIGNED FOR DISASSEMBLY BY USE OF A SHORT DISASSEMBLY WRENCH OR THE HYDRANT SHOE HAVING INTEGRAL CAST TIEBACK LUGS ON THE MAIN VALVE TO PERMIT THE MAIN VALVE ASSEMBLY AND VALVE SEAT TO BE REMOVED WITHOUT DIGGING EARTH OR DISASSEMBLING THE HYDRANT BARREL.

4. HYDRANTS SHALL BE FURNISHED WITH A BREAKABLE FEATURE THAT WILL BREAK CLEANLY UPON IMPACT. THIS SHALL CONSIST OF A TWO PART BREAKABLE SAFETY FLANGE WITH A BREAKABLE STEM COUPLING. THE UPPER AND LOWER BARRELS SHALL BE FLUTED AND RIBBED ABOVE AND BELOW THE SAFETY FLANGE OR HAVE AN EXTRA STRENGTH LOWER BARREL.

5. THE HYDRANT INTERNAL VALVE SHALL BE 5 ¼" MINIMUM. THE PENTAGONAL OPERATING NUTS AND THE CAP NUTS SHALL BE 1 ½" POINT TO FLAT. DRAIN VALVE OUTLEST SHALL BE PLUGGED OR OMITTED. THE HYDRANTS SHALL OPEN COUNTER-CLOCKWISE AND THE DIRECTION OF OPENING SHALL BE CAST ON TOP. THE BURY LENGTH MEASURED FROM THE BOTTOM OF THE CONNECTING PIPE TO THE GROUND LINE AT THE HYDRANT SHALL BE A MINIMUM OF 3 FEET 6 INCHES. HYDRANTS INSTALLED ON NEW CONSTRUCTION PROJECTS WILL BE SET TO GRADE WITHOUT EXTENSIONS ON THE BARREL.

6. THE HYDRANT SHALL BE EQUIPPED WITH A 6201D MECHANICAL JOINT BASE INLET UNLESS OTHERWISE SPECIFIED BY THE CITY.

7. FIRE HYDRANT SPACING AND FLOW REQUIREMENTS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE CITY OF SUNRISE FIRE MARSHALL STANDARDS, OR THE REQUIREMENTS OF ANY LOCAL FIRE DEPARTMENT HAVING JURISDICTION.

8. FIRE HYDRANTS SHALL BE PAINTED YELLOW WITH A REFLECTIVE TAPE PAINT AND GLASS BEADS ALL IN ACCORDANCE WITH NFPA #291 OR PER THE LATEST REQUIREMENTS OF THE CITY OF KEY COLONY BEACH FIRE MARSHALL STANDARDS OR ANY LOCAL FIRE DEPARTMENT HAVING JURISDICTION. CONTACT THE LOCAL FIRE DEPARTMENT HAVING JURISDICTION FOR COLOR REQUIREMENTS OUTSIDE THE CITY OF KEY COLONY BEACH.

9. RAISED REFLECTIVE PAVEMENT MARKER IN BLUE SHALL BE USED TO IDENTIFY THE FIRE HYDRANT LOCATION. THE PLACEMENT OF THE REFLECTOR TO BE AT THE CENTER LINE OF THE OUTSIDE ROADWAY LANE UNLESS OTHERWISE DIRECTED BY THE FIRE MARSHALL OR LOCAL FIRE DEPARTMENT HAVING JURISDICTION.

10. BOLLARDS SHALL BE PLACED AROUND HYDRANT AS APPLICABLE AND IN ACCORDANCE WITH THE CITY'S STANDARD DETAIL.

X. TRACING WIRE

1. TRACING WIRE SHALL BE INSTALLED WITH PVC PRESSURE PIPE TO INSURE THAT THE PIPE CAN BE LOCATED AFTER BURIAL. A 14 GAUGE MULTI STRAND COPPER WIRE SHALL BE INSTALLED CONTINUOUSLY ALONG THE LENGTH OF THE PIPE. A GREEN WIRE SHALL BE USED FOR SEWER MAINS AND A BLUE WIRE SHALL BE USED FOR WATER MAINS. THE WIRE SHALL BE BROUGHT UP AND A MINIMUM OF FOUR FEET OF EXCESS WIRE SHALL BE COILED AT EACH VALVE. A GREEN LOCATOR SHALL BE INSTALLED AT EVERY WATE SERVICE AS MANUFACTURED BY AUTOMATION PRODUCTS CO., MODEL #1253 OR APPROVED EQUAL.

XI. THRUST RESTRAINT

1. ALL BENDS, TEES, CROSSES, REDUCERS, AND DEAD ENDS SHALL BE RESTRAINED THROUGH AN APPROVED MEANS OF MECHANICAL JOINT RESTRAINT USING MEGALUGS AND ALL THREAD RODS. ALL BRANCH VALVES SHALL BE RESTRAINED WITH MEGALUGS AND ALL THREAD RODS. ANY LINE TERMINATED AS A CONSTRUCTION PHASE THAT IS A KNOWN FUTURE EXTENSION, SHALL HAVE PLUGGED VALVE AT THE END AND RESTRAINED WITH MEGALUGS AND ALL THREAD RODS.

2. ALL BENDS, TEES, CROSSES, REDUCERS, AND DEAD ENDS FOR 16" DIAMETER PIPE AND LARGER SHALL HAVE MECHANICAL JOINTS WITH MEGALUGS AND ALL THREAD RODS OR APPROVED EQUAL FOR RESTRAINT IN LIEU OF THRUST BLOCKS.

WATER SERVICE - MATERIALS

I. POLYETHYLENE TUBING

1. THE POLYETHYLENE COMPOUND FROM WHICH THE TUBING IS MADE SHALL BE AN ETHYLENE HEXENE COPOLYMER AND SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS AS SPECIFIED IN ASTM D3350 PROVIDING A CELL CLASSSIFICATION OF 355434C AND SIMULTANEOUSLY BE AS SPECIFIED IN ASTM D1248 FOR TYPE 111 CATEGORY 5, GRADE P34, CLASS C, PE3408 VERY HIGH MOLECULAR WEIGHT, HIGH DENSITY POLYETHYLENE PLASTIC MATERIAL.

FOR CONTINUATION SEE SHEET "SPECIFICATIONS 2"

NOTE: WHERE THESE SPECIFICATIONS DIFFER FROM THE DETAILS AND SPECIFICATIONS OF THE CITY OF KEY COLONY BEACH THE MORE STRINGENT WILL GOVERN.

This document has been digitally signed and sealed by ROSANA D. CORDOVA, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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2. POLYETHYLENE SHALL COMPLY WITH THE FOLLOWING:

A. TUBING SHALL HAVE A WORKING PRESSURE AT 200 PSI AT DEGREES F.

B. ALL TUBING FURNISHED UNDER THESE SPECIFICATIONS SHALL CONFORM TO THE FOLLOWING STANDARDS: AWWA C-901-96, ASTM D2239, ASTM D2737, ASTM D3350, ASTM D1248, ASTM F1248, ASTM D1693, ASTM D2837 AND ASTM D3140.

C. TUBING DIMENSIONS AND TOLERANCES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
a. POLYETHYLENE TUBING SURFACES SHALL BE MIRROR SMOOTH, AND SHALL BE FREE FROM BUMPS AND IRREGULARITIES. MATERIALS MSUT BE COMPLETELY HOMOGENOUS AND UNIFORM IN APPEARANCE.

D. TUBING DIMENSIONS AND TOLERANCES SHALL CORRESPOND WITH THE VALUES LISTED IN AWWA C901-96 WITH A DIMENSION RATION (DR) OF 9.

E. TUBING SHALL BE FULLY LABELED AT INTERVALS OF NOT MORE THAN 5 FEET WITH BRAND NAME AND MANUFACTURER, THE NOMINAL SIZE, PE 3408, THE WORD "TUBING" AND DR9, PC200, AWWA C901-96, AND THE SEAL, OR MARK, OF THE TESTING AGENCY.

F. 1" TUBING SHALL BE USED FOR SINGLE SERVICES AND 1 1/2" TUBING SHALL BE USED FOR DOUBLE SERVICES.

II. GENERAL NOTES

1. POLYBUTYLENE TUBING IS NOT APPROVED.

III. CASING PIPE

1. CASING PIPE FOR WATER SERVICES SHALL BE SCH 40 PER ANSI/AWWA.

2. CASING ENDS SHALL BE SANDED SMOOTH AND SEALED USING ACCEPTABLE METHODS USED IN THE INDUSTRY.

3. CASING SIZE TO BE A MINIMUM OF 150% OF THE TUBING DIAMETER.

IV. JOINTS
1. FOR NEW SERVICES, NO JOINTS ARE PERMITTED.

2. WHERE JOINTS BECOME NECESSARY, THEY SHALL BE OF THE COMPRESSION TYPE UTILIZING A TOTALLY CONFINED GRIP SEAL AND COUPLING NUT. STAINLESS STEEL TUBE STIFFENER INSERT SHALL ALSO BE USED FOR TUBING SERVICES.

V. METER VALVES/CURB STOPS

1. METER VALVES SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE WITH ASTM SPECIFICATION B62 LATEST REVISION.

2. METER VALVES SHALL BE CLOSED BOTTOM DESIGN AND RESILIENT "O" RING SEALED AGAINST EXTERNAL LEAKAGE AT THE TOP. SHUT-OFF SHALL BE AFFECTED BY A RESILIENT PRESSURE ACTUATED POSITION. THE INLET SIDE OF ALL METER VALVES SHALL HAVE A COMPRESSION TYPE FITTING AS SPECIFIED IN SECTION C. METER VALVES FOR METER SIZES 1 ½" AND UNDER SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES.

3. METER VALVES FOR 1 ½" AND 2" METERS SHALL HAVE FLANGED CONNECTIONS ON THE OUTLET SIDES. METER VALVES OVER 2" WILL BE CONSIDERED ON INDIVIDUAL BASIS FOR THE PARTICULAR INSTALLATION INVOLVED.

4. METER VALVES 2" OR LESS SHALL BE BALL TYPE.

5. CURB STOPS SHALL BE OF THE BALL VALVE TYPE. THESE VAVLES SHALL BE OF CAST RED BRASS CONTAINING COPPER, TIN, LEAD AND ZINC. THE BALL SHALL BE TEFLON COATED BRASS AND SHALL BE HELD IN POSITION BY AND SEAL OFF AGAINST SEATS OF BUNA N RUBBER THAT ARE HELD SECURELY IN PLACE WITH EPOXY ADHESIVE. BALVES SHALL BE WATER TIGHT AGAINST FLOW IN EITHER DIRECTION. THE WATERWAYS SHALL BE NO SMALLER THAN THE NORMAL SIZE OF THE VALVE AND SHALL BE SMOOTH, WITH NO ABRUPT CHANGES IN SIZE TO CREATE REISTANCE TO FLOW. THE STEM THAT TURNS THE BALL SHALL EXERT NO OTHER FORCES ON IT EXCEPT TO OPEN OR CLOSE THE BALL AND SHALL BE HELD SECURELY IN PLACE BY MEANS OF A BRONZE RING. THE MINIMUM DIAMETER OF THE STEM AT THE POINT OF ATTACHMENT TO THE VALVE BODY SHALL BE AS FOLLOWS:

VALVE SIZE	MINIMUM DIAMETER
¾"	11/16"
1"	11/16"
1 – ¼"	7/8"
1 – ½"	7/8"
2"	1"

6. THE SEAL AROUND THE STEM SHALL CONSIST OF TWO "O" RINGS. EACH VALVE SHALL HAVE A SUBSTANTIAL T-HEAD FOR THE OPERATION OF OPENING AND CLOSING WITH A 90-DEGREE TURN OF A STANDARD SLOTTED WRENCH. THE STOPS OR LUGS FOR CONTROLLING THE MOTION OF THE T-HEAD SHALL BE ENCLOSED AND PROPERTLY POSITIONED TO LINE UP THE WATERWAYS THROUGH THE BALL WITH THE WATER PASSAGE THROUGH THE VALVE BODY.

7. THE END CONNECTIONS SHALL BE PACK JOINT (COMPRESSION TYPE) CONNECTIONS POLYETHELENE TUBING. THE VALVE SHALL BE AVAILABLE IN SIZES ¾" THROUGH 2". THE VAVLE SHALL TURN EASLIY AND SHALL BE AN APPROVED EQUAL TO BALL VALVE CURB STOPS, BA-43 SERIES MANUFACTURED BY THE FORD METER BOX COMPANY, INC., WABASH, INDIANA.

IV. CORPORATION STOPS

1. CORPORATION STOPS SHALL BE MANUFACTURED OF BRASS ALLOY IN ACCORDANCE WITH ASTM SPECIFICATION B62 LATEST REVISION. THESE CORPORATION STOPS SHALL BE OF THE BALL VALVE TYPE.

2. INLET THREAD SHALL BE AWWA IRON PIPE THREAD IN ALL SIZES IN ACCORDANCE WITH AWWA. OUTLE CONNECTIONS SHALL HAVE A COMPRESSION TYPE FITTING.

VII. SERVICE SADDLES

1. SERVICE SADDLES SHALL BE BRONZE ASTM A536, WHICH TIGHTEN TO CONFORM TO THE CURVATURE FO THE PIPE SEALING "O" RING GASKET CONFINED IN A RETAINING GROOVE, FOR PRESSURE TIGHT SEAL ON THE MAIN.

2. SERVICE SADDLES SHALL BE FORD METER BOX – DOUBLE 202B OR APPROVED EQUAL.

VIII. WATER METERS
1. METERS 2" AND SMALLER WILL BE INSTALLED BY THE CITY.

2. TURBINE METERS SHALL BE USED FOR METERS OVER 2U+201D IN SIZE AND SHALL BE PROVIDED BYTHE DEVELOPER. ALL METERS FURNISHED SHALL BE MANUFACTURED IN THE CONTINENTAL UNITED STATES AND SHALL CONFORM TO ANSI/AWWA STANDARD C701-88.

3. MAINCASES FOR ALL SIZES SHALL BE CAST WATER WORKS BRONZE. SIZE, MODEL AND DIRECTION OF FLOW SHALL BE CAST, IN RAISED CHARACTERS, ON BOTH SIDES OF THE MAINCASE.

4. THE MEASURING CHAMBER SHALL BE OF UNITIZED CONSTRUCTION (I.E. COMPLETE WITH MEASURING ELEMENT, CALIBRATION DEVICE AND REGISTER IN ONE ASSEMBLY). THE MEASURING CHAMBER SHALL BE CAPABLE OF OPERATIONG WITHIN ABOVE LISTED ACCURACY LIMITS WITHOUT RECALIBRATION WHEN TRANSFERRED FROM ONE MAINCASE TO ANOTHER OF SIMILAR SIZE. THE MEASURING ELEMENT SHALL BE MOUNTED ON A HORIZONTAL STATIONARY SHAFT WITH SLEEVE BEAMING AND BE ESSENTIALLY WEIGHTLESS IN WATER.

5. THE REGISTER SHALL BE PERMANENTLY HERMETICALLY SEALED; ALL REGISTERS OF SIMILAR SIZE AND REGISTRATION TO HAVE A STANDARD RATIO GEAR REDUCTION SO AS TO PERMIT INTERCHANGEABILITY. THE MEASURING CHAMBER IS REMOVED FROM THE MAINCASE. SWEEP HAND READING AND ODOMETER WHEEL DETAILS WILL CONFORM TO AMERICAN WATER WORKS STANDARD C-701-88, AS MOST RECENTLY REVISED.

6. THE REGISTER MUST BE OF THE STRAIGHT READING TYPE AND HAVE A TEST DIAL. IT SHALL READ IN US GALLONS AND BE CAPABLE OF DIRECT VISUAL READING BOTH AT THE METER AND BY REMOTE READING EXTERNAL TO THE METER. ALL REDUCTION GEARING SHALL BE CONTAINED IN A PERMANENTLY HERMETICALLY SEALED, TAMPER-PROOF ENCLOSURE MADE OF A CORROSION RESISTANT MATERIAL. THE REGISTER IS TO BE SECURED TO THE UPPER MAINCASE BY MEANS OF AN INTERNAL LOCKING DEVICE SO THAT THE REGISTER CANNOT BE REMOVED BY THE UTILITY CUSTOMER.

7. ALL REDUCTION GEARING SHALL BE ENCLOSED IN THE PERMANENTLY HERMETICALLY SEALED REGISTER. THE DRIVE MAGNET SHALL BE LOCATED IN THE MEASURING ELEMENT, AND THE FOLLOWER MAGNET SHALL BE LOCATED INSIDE THE PERMANENTLY HERMETICALLY SEALED REGISTER. AN INTERMEDIATE MAGNETICALLY ACTIVE MATERIAL SHALL BE REQUIRED TO DISTRIBUTE THE MAGNETIC FLUX UNIFORMLY TO THE FOLLOWER MAGNET, THEREBY IMPROVING THE SERVICE LIFE OF THE REGISTER'S ROTATING COMPONENT.

IX. METER BOXES

1. THE CITY WILL SUPPLY METER BOXES FOR METERS 2" AND SMALLER.

2. FOR METERS OVER 2" IN SIZE, THE CONTRACTOR WILL PROVIDE THE METER BOX AND WILL SUBMIT SHOP DRAWINGS TO BE APPROVED BY THE ENGINEER OF RECORD AND THE CITY PRIOR TO INSTALLATION.

3. METER BOXES AND COVERS SHALL MEET THE REQUIREMENTS OF SECTION A-8 OF ASTM C-857 ON MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST UTILITY STRUCTURES. METER BOXES AND COVERS SHALL MEET ASTM D570 STANDARDS FOR WATER ABSORPTION.

<u>GRAVITY SEWERS – MATERIALS</u>

I. PIPE

1. ALL DUCTILE IRON PIPE AND FITTINGS CONVEYING OR TRANSMITTING RAW SEWAGE SHALL BE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 150 PSI. UP

2. DUCTILE IRON PIPE SHALL CONFORM TO ANSI/AWWA STANDARD C151/A21.51 LATEST REVISION, "DUCTILE IRON PIPE CENTRIFUGALLY CAST IN METAL MOLDS OR SAND-LINED MOLDS" WITH A MINIMUM WALL THICKNESS OF CLASS 350 FOR ALL PIPE 4" – 24" IN DIAMETER. DIP SHALL BE EPOXY LINED PER CITY STANDARDS.

3. PVC NON-PRESSURE PIPE SHALL CONFORM TO ASTM D3034 LATEST REVISION (SDR 35). PVC SEWER CONFLICT PIPE TO BE DR SERIES 18. ULTRA VIOLET DEGRADATION OR SUN BLEACHED PIPE WILL BE CAUSE FOR REJECTION.

II. FITTINGS

1. DUCTILE IRON FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C110 A21.10 LATEST REVISON. FITTINGS 4" AND LARGER SHALL BE COATED IN ACCORDANCE WITH PARAGRAPH I.2 ABOVE.

2. PVC FITTINGS SHALL BE OF MONOLITHIC CONSTRUCTION AND OF THE TYPE SPECIFIED BY THE MANUFACTURER OF THE PIPE BEING USED. NO SOLVENT WELDS WILL BE PERMITTED.

III. JOINTS

1. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE AND FIITINGS SHALL CONFORM TO ANSI/AWWA STANDARD C111/A21.11 LATEST REVISION. MECHANICAL JOINT OR PUSH-ON JOINT TO BE RUGGER GASKET COMPRESSION TYPE. SPECIAL FITTINGS AND JOINTS SHALL BE CONSIDERED FOR SPECIFIC INSTALLATION SUBJECT TO THE APPROVAL OF THE CITY.

2. JOINTS FOR PVC NON-PRESSURE PIPE SHALL BE BELL AND SPIGOT PUSH ON RUBBER GASKET TYPE ONLY. NO SOLVENT WELD OR THREADED JOINTS WILL BE PERMITTED.
2. WHEN REQUESTED BY THE CITY, THE PIPE MANUFACTURER SHALL FURNISH EVIDENCE IN THE FORM OF AFFIDAVITS, CERTIFIED LABORATORY REPORTS AND OTHER DATA AS MAY BE REQUIRED THAT THE MATERIAL BEING USED IN THE MANUFACTURER OF THE SEAL OR GASKET IS IN STRICT ACCORDANCE WITH THE MATERIAL SUPPLIER'S RECOMMENDATIONS.

II. MANHOLES

1. PRECAST REINFORCED CONCRETE MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF ASTM C478 LATES REVISION, AND THE FOLLOWING MODIFICATIONS THERETO:

A. MINIMUM WALL THICKNESS SHALL BE EIGHT (8") INCHES.

B. MINIMUM INSIDE DIAMETER OF BASE SECTIONS SHALL BE FORTY-EIGHT (48").

C. THE PRECAST REINFORCED BASE SHALL BE A MINIMUM OF EIGHT (8") INCHES THICK AND BE CAST MONOLITHICALLY WITH THE BOTTOM SECTION OF MANHOLE WALLS.

D. LIFTING HOLES THROUGH THE STRUCTURE SHAL BE PERMITTED; HOWEVER, HOLES SHALL BE PLUGGED WITH NON-SHRINK GROUT OR OTHER METHODS APPROVED BY THE CITY.

E. MINIMUM HEIGHT OF BASE SECTIONS SHALL BE THREE (3') FROM THE BOTTOM OF BASE SLAB.

F. MANHOLE SECTIONS SHALL BE JOINED WITH A ROUND COMPRESSION RING OF NEOPRENE MATERIAL SET IN ANNULAR SPACES CAST INTO THE SPIGOT AND OF A BELL SPIGOT TYPE JOINT. THE RING SHALL BE UNIFORMLY COMPRESSED BETWEEN THE POSITIONED SECTIONS SO AS TO FORM A WATER TIGHT JOINT.
a. AFTER THE SECTIONS ARE ASSEMBLED, THE REMAINING SPACE IN THE JOINT SHALL BE POINTED UP AND FILLED WITH A DENSE CEMENT MORTAR AND FINISHED SO AS TO MAKE A SMOOTH, CONTINUOUS SURFACE INSIDE AND OUTSIDE THE WALL SECTIONS.

G. DEEP MANHOLES (7 FEET OR DEEPER) MAY SUBSTITUTE AN EIGHT INCH (8") PRECAST REINFORCED CONCRETE SLAB ON THE TOP IN LIEU OF THE CONE SECTION. TOP SLABS SHALL HAVE A TWENTY FOUR INCH (24") DIAMETER ACCESS HOLE CENTERED IN THE SLAB. SLABS, IF USED, SHALL TERMINATE AT SUCH ELEVATIONS AS WILL PERMIT LAYING UP A MINIMUM OF TWO (2) COURSES OF CLAY BRICK UNDER THE MANHOLE FRAME TO MAKE ALLOWANCE FOR FUTURE STREET GRADE ADJUSTMENTS.

H. PRECAST MANHOLE CONES, IF USED, SHALL TERMINATE AT SUCH ELEVATIONS AS WILL PERMIT LAYING UP A MINIMUM OF TWO (2) COURSES AND MAXIMUM OF (5) COURSES OF CLAY BRICK UNDER THE MANHOLE FRAME TO MAKE ALLOWANCE FOR FUTURE STREET ADJUSTMENT.

I. BRICK FOR MANHOLE CONSTRUCTION SHALL BE DENSE, HARD BURNED, COMMON CLAY BRICK CONFORMING TO ASTM C62 LATEST REVISION, EXCEPT THAT BRICK ABSORPTION SHALL BE BETWEEN FIVE (5) AND TWENTY FIVE (25) GRAMS OF WATER ABSORBED IN ONE MINUTE BY DRIED BRICK, SET FLAT FACE DOWN, IN ON EIGHT INCH (1/8") OF WATER. ALL BRICK SHALL BE THOROUGHLY WET BEFORE LYING UP AND SHALL BE LAID WITH A SHOVE JOINT IN FULL MORATAR BEDS AND SHALL BE THOROUGHLY SLUSHED UP WITH MORTAR AT EVERY COURSE.

J. WHERE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL PLACE OPENING FOR FUTURE EXTENSIONS. THE OPENINGS SHALL BE CLOSED WITH A PLUG AS SPECIFIED BY THE CITY.
K. SERVICE LATERALS WILL NOT BE PERMITTED THROUGH MANHOLE WALLS.

L. THE INVERT CHANNELS SHALL BE SMOOTH AND ACCURATELY SHAPED TO A SEMICIRCULAR BOTTOM CONFORMING TO THE INSIDE OF THE ADJACENT SEWER SECTION. STEEP SLOPES OUTSDIE THE INVERT CHANNELS SHALL BE AVOIDED. CHANGES IN THE SIZE AND GRADE SHALL BE MADE GRADUALLY AND EVENLY. CHANGES IN THE DIRECTION OF THE SEWER OR ENTERING BRANCH SHALL BE A SMOOTH CURVE WITH RADIUS AS LONG AS PRACTICABLE.

M. OUTSIDE DROP CONNECTIONS WILL BE REQUIRED WHEN THE VERTICAL DISTANCE BETWEEN PIPE INVERTS EXCEEDS TWO FEET (2'). DROP CONNECTIONS, WHERE REQUIRED, SHALL BE CAST MONOLITHICALLY WITH THE MANHOLE ELEMENTS.

N. STEPS OR LADDERS WILL BE OMITTED UNLES SPECIFICALLY REQUESTED BY THE CITY.

O. TWO COATS OF PROTECTIVE MATERIAL, KOPPER'S 300M OR EQUAL, SHALL BE APPLIED TO THE ENTIRE OUTSIDE SURFACES OF THE MANHOLE AT THE JOB SITE. THE INSIDE SHALL BE MAINSTAY PER CITY STANDARDS; THESE MATERIALS SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND THE CITY OF KEY COLONY REQUIREMENTS. THE COATS SHALL HAVE CONTRASTING COLORS SO AS TO BE EASILY VERIFIED OR WHEN SPECIFIED BY THE INSPECTOR.

P. SEWERS SHALL BE GROUTED IN PLACE USING A WATERPROOF, EXPANDING GROUT, ACCEPTABLE TO THE CITY. ALL OPENINGS AND JOINTS SHALL BE SEALED WATERTIGHT.

Q. THE LID AND FRAME SHALL BE CAST OF CLOSE GROUND GREY IRON CONFORMING TO ASTM A48 LATEST REVISION, AND SHALL BE OF UNIFORM QUALITY, FREE OF BLOW HOLES, POROSITY, CRACKS AND OTHER OBVIOUS VISUAL DEFECTS. THE COMBINED WEIGHT OF THE FRAME AND LID SHALL NOT BE LESS THAN 370 POUNDS, AND THE LID SHALL WEIGH A MINIMUM OF 130 POUNDS. THE SEATING SURFACES BETWEEN FRAMES AND COVERS SHALL BE MACHINED TO FIT TRUE. NO PLUGGING OR FILLING WILL BE ALLOWED. CASTING PATTERNS SHALL CONFORM TO THOSE DESIGNATED BY THE CITY. CASTINGS SHALL BE CLEANED. PICK TYPE LIFTING HOLES WILL BE CAST INTO LIDS, BUT SHALL NOT GO CLEAR THROUGH THE LID. MANHOLE LID ADAPTERS OF UP TO 2" ARE ALLOWED (NEW CONSTRUCTION EXCLUDED).
R. ALL CONCRETE USED IN MANHOLE CONSTRUCTION SHALL USE TYPE II CEMENT. ALL CONCRETE SHALL HAVE NOT LESS THAN 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

S. MANHOLE ADAPTER COUPLINGS OR FLEXIBLE CONNECTORS ARE TO BE REQUIRED AT ALL MANHOLE CONNECTIONS WHEN USING PVC PIPE PER CITY STANDARDS.

T. MANHOLE FRAME AND COVER TO BE US FOUNDRY 420G WITH RAISED LETTERS THAT STATE "CITY OF KEY COLONY" AND "SANITARY SEWER".

U. ALL MANHOLES TO HAVE POLYETHYLENE INSERTS AS MANUFACTURED BY KNUTSON OR EQUAL WITH A MINIMUM THICKNESS OF 1/8" OR GREATER, PER CITY STANDARDS.

V. THE ADJUSTING RINGS AND CASTINGS OF EACH MANHOLE SHALL BE SEALED WITH AN EXTERNAL RUBBER SEALING SLEEVE AS MANUFACTURED BY INFI-SHIELD, INC. OR AN APPROVED EQUAL. THE SEAL SHALL BE MADE OF A NEOPRENE AND EPDM RUBBER AND HAVE A MINIMUM THICKNESS OF 60 MILS. THE SLEEVE SHALL BE SEALED TO THE TOP OF THE CONE OF THE MANHOLE AND OVER THE TOP OF THE CASTING WITH NON HARDENING BUTYL RUBBER MASTIC.

W. ALL PRECAST MANHOLES SHALL BEAR THE STAMP OF A CERTIFIED TESTING LABORATORY, SIGNED AND DATED, CERTIFYING THAT THEY MEET THE REQUIREMENTS OF ASTM C-478 FOR CONCRETE STRENGTH, STEEL REINFORCEMENT AREA AND PLACEMENT, AND APPEARANCE WHEN MANUFACTURED. MANHOLES MUST BE INSPECTED BY THE CITY PRIOR TO INSTALLATION.

2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE CITY AND APPROVED BY THE CONTRACTOR, ENGINEER OF RECORD AND CITY PRIOR TO FABRICATION.

<u>SEWER LATERAL – MATERIALS</u>

I. PIPE

1. PVC NON PRESSURE PIPE SHALL CONFORM TO ASTM D3034 LATEST REVISION (SDR 35). ULTRA VIOLET DEGRADATION OR SUN BLEACHED PIPE SHALL BE CAUSE FOR REJECTION.

II. FITTINGS

1. CAST IRON AND DUCTILE IRON FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C110 A21.10 LATEST REVISION. FITTINGS 4" AND LARGER SHALL BE COATED IN ACCORDANCE WITH PARAGRAPH I.1.

2. PVC FITTINGS SHALL BE OF MONOLITHIC CONSTRUCTION AND OF THE TYPE SPECIFIED BY THE MANUFACTURER OF THE PIPE BEING USED. NO SOLVENT WELDS WILL BE PERMITTED.

III. JOINTS

1. JOINTS FOR BELL AND SPIGOT DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO ANSI/AWWA STANDARD C111/A21.11 LATEST REVISION. MECHANICAL JOINTS OR PUSH-ON JOINT TO BE RUBBER GASKET COMPRESSION-TYPE. SPECIAL FITTINGS AND JOINTS SHALL BE CONSIDERED FOR SPECIFIC INSTALLATION SUBJECT TO THE APPROVAL OF THE CITY.

2. JOINTS FOR PVC NON-PRESSURE PIPE SHALL BE BELL AND SPIGOT PUSH ON RUBBER GASKET TYPE ONLY. NO SOLVENT WELD OR THREADED JOINTS WILL BE PERMITTED.

3. WHEN REQUESTED BY THE CITY, THE PIPE MANUFACTURER SHALL FURNISH EVIDENCE IN THE FORM OF AFFIDAVITS, CERTIFIED LABORATORY REPORTS, AND OTHER DATA AS MAY BE REQUIRED THAT THE MATERIAL BEING USED IN THE MANUFACTURER OF THE GASKET IS IN STRICT ACCORDANCE WITH THE MATERIAL SUPPLIER'S RECOMMENDATIONS.

4. THE JOINTING OF THE PIPE ON THE JOB SHALL BE DONE IN STRICT ACCORDANCE WITH THE PIPE MANUFACTURER'S INSTRUCTIONS AND SHALL BE DONE ENTIRELY IN THE TRENCH UNLESS OTHERWISE DIRECTED BY THE CITY.

IV.CLEAN-OUTS

1. PVC CLEAN-OUTS TO HAVE SCREW TYPE ACCESS PLUG. LONG RADIUS WYE CONNECTIONS AND FITTINGS SHALL BE USED IN ORDER TO ACCESS CLEAN-OUT OPERATIONS.

2. CLEAN-OUTS LOCATED IN PAVEMENT OR CONCRETE DRIVEWAYS SHALL HAVE A CAST IRON CAP WITH BRASS PLUG AND HAVE A 12"X12"X6" CONCRETE COLLAR IN ACCORDANCE WITH THE CITY'S STANDARD DETAIL.

I. SANITARY MARKER

1. 3M SCOTCH MARKER #1253 (GREEN) – TO BE INSTALLED AT CLEAN-OUT FOR ELECTRONIC LOCATING.

II. ADAPTERS

1. DONUT TYPE ADAPTERS SHALL BE MANUFACTURED FROM VIRGIN POLYVINYL CHLORIDE (PVC). MATERIAL SHALL CONFORM TO APPLICABLE SECTIONS OF ASTM SPECIFICATIONS C-443, C-425, C-594, C-564, AND D-1869.

FOR CONTINUATION SEE SHEET "SPECIFICATIONS SHEET 3"

NOTE: WHERE THESE SPECIFICATIONS DIFFER FROM THE DETAILS AND SPECIFICATIONS OF THE CITY OF KEY COLONY BEACH THE MORE STRINGENT WILL GOVERN.

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12 of 13

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INSTALLATION

I. INSTALLATION OF WATER MAINS & FORCE MAINS

1. THE INSTALLATION AND TESTING OF ALL NEW WATER MAINS SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF AWWA STANDARD C600–99 PLUS THE ADDITIONAL REQUIREMENTS OF THE CITY OF SUNRISE.

2. PIPE DEFLECTION – WHEN IT IS NECESSARY TO DEFLECT PIPE FROM A STRAIGHT LINE IN EITHER THE VERTICAL OR HORIZONTAL PLANE OR WHERE LONG RADIUS CURVES ARE PERMITTED, THE AMOUNT OF DEFLECTION SHALL NOT EXCED 75% OF THE MAXIMUM DEFLECTION RECOMMENDED BY MANUFACTURER. NO DEFLECTION AT THE JOINT IS ALLOWED FOR PVC PIPE. PVC PIPE CURVATURE SHALL BE ACCOMPLISHED BY BENDING THE PIPE. THE BEND PVC PIPE SHALL FORM A TRUE ARC, I.E., THE PIPE IS CURVE UNIFORMLY THROUGHOUT ITS LENGTH AND SHALL NOT EXCEED THE FOLLOWING PARAMETERS:

PVC PIPE SIZE MIN. ALLOWABLE RADIUS MAX. DEFLECTION
(INCHES/ 20' LENGTH)

6"	300 FT.	8"	
8"	400 FT.	6"	
10"	600 FT.	4"	
12"	600 FT.	4"	

NOTE: WATER OR SEWER FORCE MAINS OF ANY SIZE PVC OR DIP PIPE THAT CROSS ANY OTHER UTILITY MAINS WITHOUT A MINIMUM OF 18" OF VERTICAL SEPARATION WILL NOT BE INSTALLED BY WAY OF DEFLECTION OTHER THAN WITH FOUR 45 DEGREE BENDS WITH MEGALUGS AND THREAD RODS TO RESTRAIN ALL JOINTS. THE TOP 45 DEGREE BENDS WILL BE RESTRAINED. FIELD INSPECTION BY A CITY ENGINEERING INSPECTOR WILL BE REQUIRED PRIOR TO INSTALLATION.

3. ADDITIONAL INSTALLATION REQURIMENTS:

A. CLEARING

(1) THE CONTRACTOR SHALL PERFORM ALL CLEARING NECESSARY FOR THE PROPER INSTALLATION OF ALL LINES AND APPURTENANCES IN THE LOCATIONS SHOWN ON THE DRAWINGS. PLANTINGS, SHRUBBERY, TREES, UTILITY POLES OR STRUCTURES SUBJECT TO DAMAGE RESULTING FROM THE EXCAVATION SHALL BE TRANSPLANTED, RELOCATED, BRACED, SHORED OR OTHERWISE PROTECTED AND PRESERVED UNLESS OTHERWISE DIRECTED BY THE CITY.

B. EXCAVATION

(1) THE CONTRACTOR SHALL PERFORM ALL EXCAVATION OF EVERY DESCRIPTION AND OF WHATEVER SUBSTANCES ENCOUNTERED, TO THE DIMENSIONS AND DEPTHS SHOWN ON THE DRAWINGS OR AS DIRECTED. ALL EXCAVATION SHALL BE MADE BY OPEN CUT. ALL EXISTING UTILITIES SUCH AS PIPES, POLES, AND STRUCTURES SHALL BE CAREFULLY SUPPORTED AND PROTECTED FROM INJURY, AND IN CASE OF DAMAGE, THEY SHALL BE RESTORED AT NO COST TO THE CITY.

(2) WORK SHALL BE PROPERLY SHEETED AND BRACED WHERE NECESSARY. WHERE CERTAIN DESIGNS OF STEEL SHEETING ARE USED, THE SHEETING SHALL BE CUT OFF AT A LEVEL TWO FEET ABOVE THE TOP OF THE INSTALLED PIPE AND THAT PORTION BELOW THAT LEVEL SHALL BE LEFT IN PLACE. IF INTERLOCKING STEEL SHEETING OF A DESIGN APPROVED BY THE CITY IS USED, IT MAY BE REMOVED PROVIDING REMOVAL CAN BE ACCOMPLISHED WITHOUT DISTURBING THE BEDDING OR ALIGNEMENT OF THE PIPE. ANY DAMAGE TO THE PIPE BEDDING, PIPE OR ALIGNMENT OF THE CONSTRUCTED MAIN CAUSE BY REMOVAL OF SHEETING SHALL BE CAUSE FOR REJECTION OF THE AFFECTED PORTION OF THE WORK.

(3) PIPE TRENCHES SHALL BE EXCAVATED TO A WIDTH WITHIN THE LIMITS OF THE TOP OF THE PIPE AND THE TRENCH BOTTOM SO AS TO PROVIDE A CLEARANCE ON EACH SIDE OF THE PIPE BARREL, MEASURED TO THE FACE OF THE EXCAVATION, OR SHEETING IF USED, OF NOT LESS THAN EIGHT INCHES (8"), NOR MORE THAN TWELVE INCHES (12"). FOR PIPE OVER EIGHTEEN INCHES (18") IN NOMINAL SIZE, THIS MAXIMUM TWELVE INCHES (12") CLEARANCE MAY BE INCREASED TO EIGHTEEN INCHES (18"). ALL PIPE TRENCHES SHALL BE EXCAVATED TO A LEVEL SIX INCHES (6") BELOW THE OUTSIDE BOTTOM OF THE PROPOSED PIPE BARREL UNLESS OTHERWISE DIRECTED BY THE CITY. PROPERLY SLOPED OR SHORED PER OSHA REQUIREMENTS AND JOB SITE CONDITIONS, AND THE TRENCH SAFETY ACT.

(4) EXCAVATION FOR APPURTENANCES SHALL BE SUFFICIENT TO PROVIDE A CLEARANCE BETWEEN THEIR OUTER SURFACES AND THE FACE OF THE EXCAVATION, OR SHEETING IF USED, OF NOT LESS THAN TWELVE INCHES (12"). MATERIALS REMOVED FROM ATION5 THE TRENCHES SHALL BE STORED AND DISPOSED OF IN SUCH A MANNER THAT THEY WILL NOT INTEFERE UNDULY WITH TRAFFIC ON PUBLIC STREETS AND SIDEWALKS, AND THEY SHALL NOT BE PLACED ON PRIVATE PROPERTY. IN CONGESTED AREAS, SUCH MATERIALS AS CANNOT BE STORED ADJACENT TO THE TRENCH OR USED IMMEDIATELY AS BACKFILL, IF ACCEPTABLE, SHALL BE REMOVED TO CONVENIENT PLACES OF STORAGE.

(5) ALL EXCESS MATERIAL SUITABLE FOR USE AS BACKFILL SHALL BE HAULED TO AND USED IN AREAS WHERE NOT ENOUGH SUITABLE MATERIAL IS AVAILABLE FROM THE EXCAVATION.

(6) SUITABLE MATERIAL IN EXCESS OF BACKFILL REQUIREMENTS AND MATERIAL UNSUITABLE FOR BACKFILL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE WORK AND DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.

(7) ALL UNSUITABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE WORK AND DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.

C. DEWATERING

(1.) WHEN PRACTICAL, IT IS A REQUIREMENT OF THESE SPECIFICATIONS THAT EXCAVATION SHALL BE FREE FROM WATER BEFORE PIPE OR STRUCTURES ARE INSTALLED. WHEN NOT PRACTICAL, WORK SHALL BE DONE AS SPECIFIED BY THE CITY.

(2.) THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PUMPS, UNDER–DRAINS, WELL POINT SYSTEMS, AND OTHER MEANS FOR REMOVING WATER FROM TRENCHES AND OTHER PARTS OF THE WORK. THE CONTRACTOR SHALL CONTINUE DEWATERING OPERATIONS UNTIL THE BACKFILL HAS PROGRESSED TO A SUFFICIENT DEPTH OVER THE PIPE TO PREVENT FLOTATION OR MOVEMENT OF THE PIPE IN THE TRENCH.

(3.) WATER FROM THE TRENCHES AND EXCAVATION SHALL BE DISPOSED OF IN SUCH A MANNER AS WILL NOT CAUSE INJURY TO PUBLIC HEALTH, TO PUBLIC OR PRIVATE PROPERTY, TO THE WORK COMPLETED OR IN PROGRESS, TO THE SURFACE OF THE STREETS, OR WATERWAYS OR CAUSE ANY INTERFERENCE WITH THE USE OF THE SAME BY THE PUBLIC.

(4.) ALL DEWATERING SHALL BE IN ACCORDANCE WITH THE BROWARD COUNTY DEPARTMENT OF NATURAL RESOURCE PROTECTION DISCHARGE REQUIREMENTS.

D. TRENCH STABILIZATION

(1.) NO CLAIMS FOR EXTRAS, OR ADDITIONAL PAYMENT WILL BE CONSIDERED FOR COST INCURRED IN THE STABILIZATION OF TRENCH BOTTOMS WHICH ARE RENDERED SOFT OR UNSUITABLE AS A RESULT OF CONSTRUCTION METHODS, SUCH AS IMPROPER OR INADEQUATE SHEETING, DEWATERING OR OTHER CAUSES. IN NO EVENT SHALL PIPE BE INSTALLED WHEN SUCH CONDITIONS EXIST AND THE CONTRACTOR SHALL CORRECT SUCH CONDITIONS SO AS TO PROVIDE PROPER BEDDING OR FOUNDATIONS FOR THE PROPOSED INSTALLATION AT NO ADDITIONAL COST TO THE CITY. PLEASE REFER TO TRENCH SAFETY ACT, HOUSE BIL 3183 LAW OF OCTOBER 1, 1990.

E. LAYING

(1.) A MINIMUM TWO FOOT HORIZONTAL DISTANCE SHALL BE MAINTAINED BETWEEN NEW WATER MAIN INSTALLATION AND ANY OTHER UTILITIES (SEE STANDARD SEPARATION REQUIREMENTS).

(2.) WHEN THE PIPE IS LAID IN THE PREPARED TRENCH, TRUE TO LINE AND GRADE. THE PIPE BARREL SHALL RECEIVE CONTINUOUS, UNIFORM SUPPORT AND NO PRESSURE WILL BE EXERTED ON THE PIPE JOINTS FROM THE TRENCH BOTTOM.

(3.) THE INTERIOR OF THE PIPES SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER BEFORE BEING LOWERED INTO THE TRENCH. DURING SUSPENSION OF WORK FOR ANY REASON AT ANY TIME, A SUITABLE STOPPER SHALL BE PLACED IN THE END OF THE PIPE LAST LAID TO PREVENT MUD OR OTHER FOREIGN MATERIAL FROM ENTERING THE PIPE. LINES SHALL BE LAID STRAIGHT, AND DEPTH OF COVER SHALL BE MAINTAINED UNIFORM WITH RESPECT TO FINISH GRADE WHETHER GRADING IS COMPLETED OR PROPOSED AT THE TIME OF PIPE INSTALLATION. WHERE A GRADE OR SLOPE IS SHOWN ON THE DRAWINGS, A LASER BEAM PARALLELING DESIGN GRADE SHALL BE USED BY THE CONTRACTOR TO ASSURE CONFORMANCE TO REQUIRED GRADE. NO ABRUPT CHANGES IN DIRECTION OR GRADE WILL BE ALLOWED. ANY PIPE FOUND DEFECTIVE SHALL BE IMMEDIATELY REMOVED AND REPLACED WITH SOUND PIPE. RESTRAINED JOINTS SHALL BE USED FOR ALL BENDS, TEES, PLUGS, AND OTHER FITTINGS. THE JOINTS OF ALL PIPELINE SHALL BE MADE ABSOLUTELY TIGHT. THE PARTICULAR JOINT USED SHALL BE APPROVED BY THE CITY PRIOR TO INSTALLATION.

(4.) MECHANICAL JOINTS SHALL BE MADE UP USING ANNEALED HIGH STRENGTH CAST IRON BOLTS AND RUBBER GASKETS HAVING EITHER PLAIN OR DUCKTIP AS RECOMMENDED BY THE MANUFACTURER. ALL TYPES OF MECHANICAL JOINT PIPES SHALL BE LAID AND JOINTED IN FULL CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS, WHICH SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL BEFORE WORK IS BEGUN. TORQUE WRENCHES SET AS SPECIFIED IN AWWA STANDARD C111 LATEST REVISION, SHALL BE USED; OR SPANNER TYPE WRENCHES MAY BE USED WITH THE PERMISSION OF THE CITY.

(5.) PUSH–ON JOINTS SHALL BE MADE IN STRICT, COMPLETE COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. LUBRICANT, IF REQUIRED SHALL BE AN INERT, NONTOXIC, WATER SOLUBLE COMPOUND INCAPABLE OF HARBORING, SUPPORTING, OR CULTURING BACTERIAL LIFE. MANUFACTURER'S RECOMMENDATIONS SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL BEFORE WORK IS BEGUN.

(6.) ALL DIP PIPE SHALL HAVE A MINIMUM COVER OF 30". ALL PVC PIPE SHALL HAVE A MINIMUM COVER OF 36".

F. BACKFILL

(1.) BACKFILLING OF UTILITY TRENCHES WILL NOT BE ALLOWED UNTIL THE WORK HAS BEEN INSPECTED BY THE CITY AND THAT WILL INDICATE THAT BACKFILLING MAY PROCEED. ANY WORK WHICH COVERED UP OR CONCEALED WITHOUT THE KNOWLEDGE AND CONSENT OF THE CITY MAY BE REQUIRED TO BE UNCOVERED OR EXPOSED AT NO COST TO THE CITY.

(2.) BACKFILL MATERIAL SHALL BE NON–COHESIVE AND NON–PLASTIC, FREE OF ALL DEBRIS, LUMPS, CLODS, WOOD, BROKEN PAVING OR ANY ORGANIC OR UNSTABLEMATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT (1.0') OF THE LINES SHALL NOT CONTAIN ANY STONES OR ROCKS LARGER THAN TWO (2") IN DIAMETER AND NO STONES OR ROCKS LARGER THAN SIX INCHES (6") IN DIAMETER WILL BE PERMITTED IN ANY BACKFILL.

(3.) IF A SUFFICIENT QUANTITY OF SUITABLE BACKFILL MATERIAL IS NOT AVAILABLE FROM THE TRENCH EXCAVATION, OR OTHER TRENCH EXCAVATIONS WITHIN THE SITE OF THE WORK, THE CITY SHALL ORDER THE CONTRACTOR TO PROVIDE ADDITIONAL MATERIAL SUITABLE FOR THIS PURPOSE. THE ADDITIONAL MATERIAL SHALL BE INSTALLED AS SPECIFIED HEREIN.

(4.) SELECTED BACKFILL MATERIAL CONTAINING NO STONE OR ROCKS LARGER THAN TWO INCHES (2") SHALL BE PLACED IN SIX INCH (6") LAYERS AND THOROUGHLY TAMPED TO A DEPTH OF TWELVE INCHES OVER THE TOP OF THE PIPE. PARTICULAR ATTENTION AND CARE SHALL BE EXERCISED IN OBTAINING THOROUGH SUPPORT FOR THE BRANCH OF ALL SERVICE CONNECTION FITTINGS. CARE SHALL BE TAKEN TO PRESERVE THE ALIGNMENT AND GRADIENT OF THE INSTALLED PIPE.

(5.) AFTER SELECTED BACKFILL HAS BEEN PLACED TO A DEPTH OF TWELVE INCHES (12") OVER THE PIPE, BACKFILLING SHALL PROCEED TO A DEPTH OF THIRTY INCHES (30") OVER THE PIPE BY PLACING THE BACKFILL MATERIAL IN SIX INCH (6") LAYERS AND THOROUGHLY COMPACTING WITH MECHANICAL VIBRATIONS. BACKFILL IN THIS PORTION OF THE WORK SHALL BE COMPACTED TO 100 PERCENT OF MAXIMUM DENSITY OF THE MATERIAL AS HERINAFTER DEFINED.

(6.) AFTER THE BACKFILL HAS BEEN PLACED TO A LEVEL THIRTY INCHES (30") OVER THE PIPE, THE REMAINDER OF THE BACKFILL SHALL BE PLACED IN LAYERS, NOT TO EXCEED NINE INCHES (9") AND COMPACTED WITH MECHANICAL VIBRATORS, OR OTHER SUITABLE EQUIPMENT, I.E. FLOODING TO OBTAIN A DENSITY OF THE BACKFILLED MATERIAL OF NOT LESS THAN 100 PERCENT OF ITS MAXIMUM DENSITY AS HEREINAFTER DEFINED.

(7.) AN ALTERNATE METHOD OF BACKFILLING SHALL BE USED WHEN LAYING PIPE UNDER WATER OR WHEN OTHERWISE DIRECTED BY THE CITY. THE ALTERNATE METHOD OF BACKFILLING SHALL DIFFER FROM THE PREVIOUSLY MENTIONED SPECIFICATION ONLY IN THAT THE BACKFILL MATERIAL USED AROUND THE PIPE AND TO A LEVEL OF ONE FOOT (1.0') ABOVE THE TOP OF THE PIPE BARREL SHALL BE DRAINFIELD LIMEORCK NOT LARGER THAN ¾" IN DIAMETER.

G. RESTORING SURFACES

(1.) THE TOP SURFACES OF THE BACKFILL SHALL BE RESTORED TO THE ORIGINAL OR PLANNED CONDITIONS OR BETTER. TRENCHES SHALL BE CAREFULLY EXAMINED UPON THE OCMPLETION OF BACKFILLING AND SURFACE IRREGULARITIES THAT ARE DANGEROUS OR OBSTRUCTIVE TO TRAFFIC ARE TO BE REMOVED. PAVED SECTIONS SHALL CONFORM IN GRADE WITH ADJACENT AREAS AND SHALL BE OF AT LEAST EQUAL QUALITY. DESIGN MIXES FOR FLEXIBLE PAVEMENT SHALL BE SUBJECT TO APPROVAL BY THE CITY OF BROWARD COUNTY ENGINEERING DEPARTMENT AS APPLICABLE BUT SHALL ADHERE TO THE FLORIDA DEPARTMENT OF TRANSPORTATION RULES AND REGULATIONS AND STANDARD AND/OR OTHER GOVERNMENT AGENCIES. ALL DAMAGED OR UNDERMINED AREAS OF EXISTING PAVEMETN, NOT PREVIOUSLY REMOVED, SHALL BE REMOVED AND RESTORED TO ORIGINAL CONDITION OR IN THE SPECIFIED MANNER.

(2.) EQUIPMENT OR TRAFFIC SHALL NOT TRAVEL OVER LOOSE ROCK FRAGMENTS, OR OTHER HARD MATERIAL, LYING ON SECTIONS OF PAVEMENT, WHICH ARE NOT TO BE REMOVED. FOR TRAFFIC CONTROL AND SAFETY, BARRACADES MAY BE REQUIRED. REMOVAL, REPLACEMENT AND RESTORATION OF AREAS OF PAVEMENT SHALL BE INDICATED ON DRAWINGS AND IN CONFORMANCE WITH THE APPROVED DETAILS.

H. STANDARD PIPE SEPARATION REQUIREMENTS

(1.) SANITARY SEWER GRAVITY AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWER GRAVITY AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

WHERE SANITARY SEWER GRAVITY OR FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES OF VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP), MINIMUM CLASS 52 AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 12 INCHES MUST BE MAINTAINED AT CROSSINGS.

ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES OF VERTICAL CLEARANCE, THE PIPE SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.

(2.) A MINIMUM OF 10 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLET INSTALLATION WHENEVER POSSIBLE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AS SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL SEPARATION OF 6 INCHES WITH SAND BEDDING. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

II. INSTALLATION OF NEW WATER SERVICES

2. THE INSTALLATION AND TESTING OF ALL NEW WATER SERVICES SHALL BE DONE IN ACCORDANCW EITH THE LATEST REVISION OF AWWA STANDARD C600–99, C901–96, AND C902 PLUS THE ADDITIONAL REQUIREMENTS OF THE CITY OF KEY COLONY.

3. LAYING

A. THE BEDDING MATERIAL USED FOR SERVICE LINE INSTALLATIONS SHALL CONSIST OF SELECTED BACKFILL MATERIAL CONTAINING NO STONE OR ROCKS LARGER THAN 1" IN DIAMETER, SAND OR DRAINFIELD LIME ROCK NOT LARGER THAN ¾" IN DIAMETER.

B. WHEN THE SERVICE LINE IS LAID IN THE PREPARED TRENCH, SPECIAL CARE SHALL BE TAKEN TO INSURE THAT MINIMUM RADIUS IS MAINTAINED ON PLASTIC SERVICE LINES AND THAT UNDUE PRESSURE IS NOT EXERTED ON THE SERVICE LINE BY ROCKS OR OTHER MATERIAL PROTRUDING THROUGH THE BEDDING MATERIAL.

C. THE INTERIOR OF THE SERVICE LINE SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATTER BEFORE BEING LOWERED INTO THE TRENCH. COMPRESSION JOINTS AND COUPLINGS SHALL BE ASSEMBLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. PARTICULAR CARE SHOULD BE TAKEN TO DEEP FOREIGN MATERIALS FROM INTERFERING WITH PROPER JOINT ASSEMBLY. THE MATING SURFACES OF THE COMPRESSION JOINT SHOULD BE WIPED CLEAN. THE TUBING SHOULD THEN BE INSERTED INTO THE COMPRESSION FITTING AND MADE TIGHT ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

D. THE MAXIMUM DEFLECTION OF ANY SERVICE LINE SHALL NOT EXCEED 75% MAXIMUM DEFLECTION RECOMMENDED BY THE TUBING MANUFACTURER. THE SERVICE LINE SHALL TERMINATE IN AN APPROVED METER BOX OR VAULT LOCATED WITHIN THE PUBLIC RIGHT–OF–WAY OR EASEMENT, ADJACENT TO THE PROPERTY BEING SERVED. THE METER BOX OR VAULT SHALL HAVE A TRAFFIC TYPE COVER IN AREAS WHERE IT IS EXPOSED TO VEHICULAR TRAFFIC.

THE MINIMUM DEPTH OF COVER OVER THE SERVICE LINE AT STREET CROSSING SHALL BE 24" UNLESS OTHERWISE DIRECTED BY THE CITY. ON INSTALLATIONS WHERE NO STREET CROSSING IS NECESSARY, THE MINIMUM DEPTH OF COVER SHALL BE 18" UNLESS SPECIAL PROBLEMS ARE ENCOUNTERED. ADDITIONAL REQUIREMENTS OF INSTALLATION SECTION 601.00.3

IV. INSTALLATION OF GRAVITY WASTEWATER MAINS

1. GRAVITY WASTEWATER MAINS SHALL BE LAID ACCURATELY TO BOTH LINE AND GRADE. THE CITY WILL GENERALLY NOT ACCEPT ANY LINE LAID WITH A SLOPE VARYING BY MORE THAN 15% OF ITS DESIGN SLOPE ESPECIALLY FORLINES LAID AT MINIMUM GRADIENTS. THE CITY RESERVES THE RIGHT TO INDEPENDENTLY VERIFY QUESTIONABLE SURVEY RESULTS. VISIBLE LEAKAGE, DEFLECTIONS, HORIZONTAL MISALIGNMENT, SIGNIFICANT BOWING, NON–CONSTANT SLOPES BETWEEN MANHOLES, AND SAGGING JOINTS SHALL EACH BE GROUNDS FOR REJECTION OF THE LINES.

2. TRENCHES AND EXCAVATIONS SHALL BE KEPT DRY WHILE WORK IS IN PROGRESS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL SAFETY REQUIREMENTS ARE MET. UNSUITABLE EXCAVATED MATERIAL SUCH AS BOULDERS AND LOOSE SHALL BE REMOVED FROM THE SITE. THE PIPE BARREL SHALL BE UNIFORMLY SUPPORTED ALONG ITS ENTIRE LENGTH ON UNDISTURBED SOIL OR BEDDING MATERIAL. PROPER BEDDING SHALL BE SUPPLIED IF THE EXISTING MATERIAL INCLUDES ROCK, ORGANIC MATERIAL OR OTHER SHARP OR UNSUITABLE MATERIAL.

3. MANHOLES SHALL BE SET ACCORDING TO CONSTRUCTION PLANS AND SHALL BE PRECAST IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND SPECIFICATIONS DETAILS DRAWINGS. THE MANHOLE INVERT SHALL BE CAREFULLY SHAPED TO CONFORM TO THE PIPE FLOW CHANNEL. FLOW CHANNELS WITHIN THE MANHOLES INVOLVING CHANGES OF DIRECTION OR SLIDE SLOPES SHALL SMOOTHLY DIRECT THE FLOW IN ACCORDANCE WITH DETAIL DRAWINGS. ALL CONCRETE IRREGULARITIES SHALL BE PLASTERED WITH CEMENT MORTAR IN SUCH A MANNER AS TO GIVE A NEAT AND WATER TIGHT JOINT. MANHOLES SHALL BE CORE DRILLED TO PROVIDE PIPE OPENING WHEN PRECAST HOLE IS NOT AVAILABLE.

TESTING

I. TESTING WATER MAIN LINES

1. WATER MAINS SHALL BE TESTED IN ACCORDANCE WITH ANSI/AWWA STANDARD C600–99 LATEST REVISION.

2. HYDROSTATIC TESTS:

A. AFTER A NEW WATER MAIN HAS BEEN LAID AND BACKFILLED, IT SHALL BE PUMPED TO A PRESSURE OF 150 PSI AND ALL VISIBLE LEAKS STOPPED BY APPROVED METHODS.

B. A LEAKAGE TEST SHALL THEN BE CONDUCTED AT THE ABOVE MENTIONED PRESSURE AND NO INSTALLATION WILL BE ACCEPTABLE BY THE CITY UNTIL THE LEAKAGE IS LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:

$$L = S \times D \times \frac{P^{1/2}}{148{,}000}$$

IN WHICH L EQUALS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR; S IS THE LENGTH OF LINE IN FEET BEING TESTED; D IS THE NOMINAL DIAMETER OF THE PIPE IN INCHES; AND P IS THE AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST IN POUNDS PER SQUARE INCH. THE TEST IS USUALLY MAINTAINED FOR TWO HOURS BUT IT MAY BE CONTINUED FOR ONE ADDITIONAL HOUR IF IT BECOMES APPARENT THAT THELEAKAGE IS EQUAL TO OR GREATER THAN THE AMOUNT ALLOWABLE. WATER SUPPLIED TO THE MAIN DURING THE TEST TO MAINTAIN THE REQUIRED PRESSURE SHALL BE MEASURED BY A 5/8–INCH METER INSTALLED ON THE DISCHARGE SIDE OF THE TEST PUMP, OR BY PUMPING FROM A CALIBRATED CONTAINER. A HOSE BIB CONNECTION WILL BE PROVIDED TO ACCEPT THE TEST GAUGE.

C. THE SECTION OF MAIN BEING TESTED SHALL BE LIMITED TO A MAXIMUM LENGTH OF 2000'. WHEN TESTING AGAINST CLOSED METAL–SEATED MAINLINE VALVES, AN ADDITIONAL LEAKAGE PER CLOSED VALVE OF 0.0078 GAL/HR/IN OF NOMINAL VALVE SIZE SHALL BE ALLOWED. ANY QUESTIONS PERTAINING TO PROCEDURES USED DURING THE TEST SHALL BE DECIDED BY THE CITY.

D. NO ALLOWABLE LEAKAGE FOR FIRE HYDRANTS.

3. BACTERIOLOGICAL TEST:

A. AFTER THE WATER MAINS HAVE BEEN FLUSHED THROUGH OPENINGS OF THE REQUIRED SIZE, THE WATER MAINS MUST SATISFY THE LEAKAGE REQUIREMENTS AS DETAILED IN ASNI/AWWA STANDARD C651–99 LATEST REVISION. THE MAIN SHALL THEN BE STERILIZED IN ACCORDANCE WITH THE PROVISIONS OF THE APPLICABLE SECTIONS OF THE ABOVE NAMED SPECIFICATIONS. ON MAIN BREAKS, CUT–INS, ETC. A LIBERAL APPLICATION OF CALCIUM HYPOCHLORITE SHALL BE MADE; 50 PPM CHLORINE DURING A 24 HOUR PERIOD.

B. MAINS SHALL NOT BE PUT INTO DOMESTIC SERVICE UNTIL THE NECESSARY BACTERIOLOGICAL SAMPLES HAVE BEEN APPROVED BY THE APPLICABLE REGULATORY AGENCIES.

C. CONTRACTOR RESPONSIBLE FOR ARRANGING AND PAYING FOR ALL BACTERIOLOGICAL SAMPLES AND ANALYSIS.

II. TESTING WATER SERVICE LINES

1. HYDROSTATIC TESTING

A. HYDROSTATIC TESTING OF WATER SERVICE LINES SHALL BE DONE IN CONJUNCTION WITH THE TESTING OF THE LATERAL OR MAIN LINE. NO ADDITIONAL LEAKAGE ALLOWANCE WILL BE MADE FOR SERVICE LINES OR FIRE HYDRANTS.

2. STERILIZATION

A. STERILIZATION OF SERVICE LINES SHALL BE DONE IN CONJUNCTION WITH THE STERILIZATION OF THE LATERAL OR MAIN LINE. SUFFICIENT SAMPLING POINTS SHALL BE TAKEN FROM SERVICE LINE CONNECTIONS TO ASSURE UNIFORM RESULTS THROUGHOUT THE SYSTEM BEING TESTED.

III. TESTING FORCE MAIN LINES

1. FORCE MAINS SHALL BE TESTED IN ACCORDANCE WITH AWWA STANDARD C600 LATEST REVISION.

2. HYDROSTATIC TESTS:

A. AFTER A NEW FORCE MAIN HAS BEEN LAID AND BACKFILLED, IT SHALL BE PUMPED TO A PRESSURE OF 150 PSI AND ALL VISIBLE LEAKS STOPPED BY APPROVED METHODS.

B. A LEAKAGE TEST SHALL THEN BE CONDUCTED AT THE ABOVE MENTIONED PRESSURE AND NO INSTALLATION WILL BE ACCEPTABLE BY THE CITY UNTIL THE LEAKAGE IS LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA:

$$L = S \times D \times \frac{P^{1/2}}{148{,}000}$$

IN WHICH L EQUALS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR; S IS THE LENGTH OF LINE IN FEET BEING TESTED; D IS THE NOMINAL DIAMETER OF THE PIPE IN INCHES; AND P IS THE AVERAGE TEST PRESSURE DURING THE LEAKAGE TEST IN POUNDS PER SQUARE INCH. THE TEST IS USUALLY MAINTAINED FOR TWO HOURS BUT IT MAY BE CONTINUED FOR ONE ADDITIONAL HOUR IF IT BECOMES APPARENT THAT THELEAKAGE IS EQUAL TO OR GREATER THAN THE AMOUNT ALLOWABLE. WATER SUPPLIED TO THE MAIN DURING THE TEST TO MAINTAIN THE REQUIRED PRESSURE SHALL BE MEASURED BY A 5/8–INCH METER INSTALLED ON THE DISCHARGE SIDE OF THE TEST PUMP, OR BY PUMPING FROM A CALIBRATED CONTAINER. A HOSE BIB CONNECTION WILL BE PROVIDED TO ACCEPT THE TEST GAUGE.

C. THE SECTION OF MAIN BEING TESTED SHALL BE LIMITED TO A MAXIMUM LENGTH OF 2000'. WHEN TESTING AGAINST CLOSED METAL–SEATED VALVES, AN ADDITIONAL LEAKAGE PER CLOSED VALVE OF 0.0078 GAL/HR/IN OF NOMINAL VALVE SIZE SHALL BE ALLOWED. ANY QUESTIONS PERTAINING TO PROCEDURES USED DURING THE TEST SHALL BE DECIDED BY THE CITY.

V. TESTING GRAVITY SEWER LATERALS

1. INFILTRATION/EXFILTRATION GRAVITY SEWER LATERALS.

2. INFILTRATION AND EXFILTRATION TESTING (TWO FEET OF HEAD FOR INFILTRATION; ZERO HEAD FOR EXFILTRATION) OF SERVICE CONNECTION LINES SHALL BE DONE IN CONJUNCTION WITH THE TESTING OF THE LATERAL AND/OR MAIN LINE SEWER. NO ADDITIONAL LEAKAGE ALLOWANCE WILL BE MADE FOR SERVICE LINES.

3. INFILTRATION TESTING OF SERVICE LINES WILL NOT BE PERMITTED UNLESS A MINIMUM 2' (FEET) STATIC HEAD OF GROUND WATER EXISTS OVER THE SHALLOW END OF THE SERVICE LINE AT CLEANOUT.

VI. VISUAL INSPECTION OF GRAVITY SEWER MAIN LINES

1. ON COMPLETION OF EACH BLOCK OR SECTION OF SEWER, OR SUCH OTHER TIMES AS THE CITY MAY DIRECT, THE BLOCK OR SECTION OF SEWER IS TO BE CLEANED, TESTED, TELEVISED AND INSPECTED. EACH SECTION OF THE SEWER IS TO SHOW, IN EXAMINATION FROM EITHER END, A FULL CIRCLE OF LIGHT BETWEEN MANHOLES. EACH MANHOLE OR OTHER APPURTENANCE TO THE SYSTEM, SHALL BE OF THE SPECIFIED SIZE AND FORM, BE WATER TIGHT, NEATLY AND SUBSTANTIALLY CONSTRUCTED, WITH THE TOP SET PERMANENTLY TO EXACT POSITION AND GRADE. ALL REPAIRS SHOWN NECESSARY BY THE INSPECTION ARE TO BE MADE; BROKEN OR CRACKED PIPE REPLACED; ALL DEPOSITS REMOVED AND THE SEWER LEFT TRUE TO LINE AND GRADE ENTIRELY CLEAN AND READY FOR USE.

VII. TESTING BACKFILL

1. COMPACTION AND DENSITY TESTING

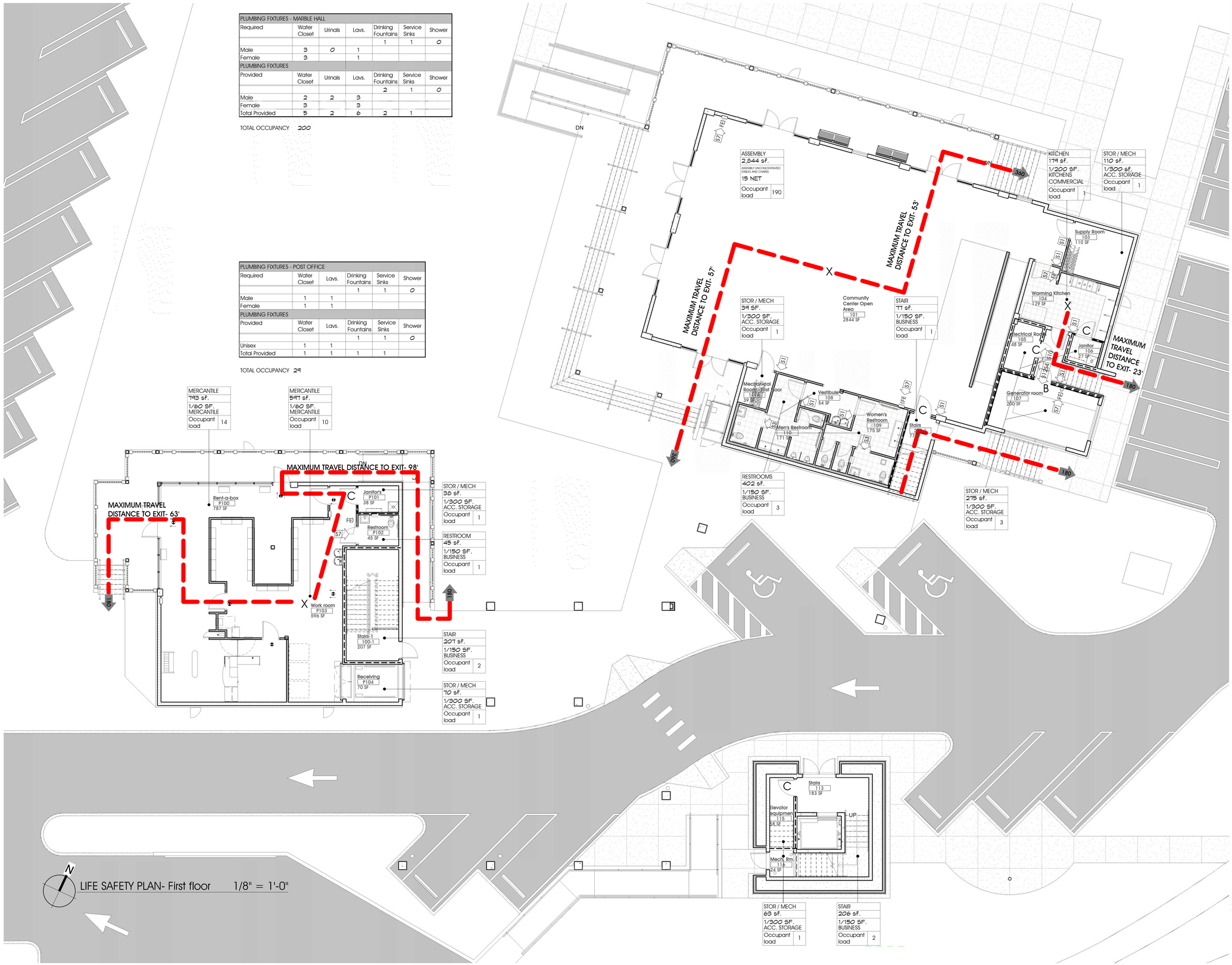
2. METHODS OF CONTROL AND TESTING OF BACKFILL CONSTRUCTION TO BE EMPLOYED IN THIS WORK ARE:
A. MAXIMUM DENSITY OF BACKF

PLUMBING FIXTURES - MARBLE HALL						
Required	Water Closet	Urinals	Lavs.	Drinking Fountains	Service Sinks	Shower
				1	1	0
Male	3	0	1			
Female	3		1			
PLUMBING FIXTURES						
Provided	Water Closet	Urinals	Lavs.	Drinking Fountains	Service Sinks	Shower
				2	1	0
Male	2	2	3			
Female	3		3			
Total Provided	5	2	6	2	1	

TOTAL OCCUPANCY 200

PLUMBING FIXTURES - POST OFFICE					
Required	Water Closet	Lavs.	Drinking Fountains	Service Sinks	Shower
			1	1	0
Male	1	1			
Female	1	1			
PLUMBING FIXTURES					
Provided	Water Closet	Lavs.	Drinking Fountains	Service Sinks	Shower
			1	1	0
Unisex	1	1			
Total Provided	1	1	1	1	

TOTAL OCCUPANCY 29



LIFE SAFETY PLAN- First floor 1/8" = 1'-0"

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consultant:

CITY OF KEY COLONY BEACH | CITY HALL
600 W Ocean Dr . Key Colony . Florida 33051

LIVS project number:
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Client project number:
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LIFE SAFETY PLAN - First Floor

revisions

issued for:
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issue date:
05.01.23

drawn by: Author
approved by: Checker

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

seal

STATE OF FLORIDA
FELIX A. ROSABAL JR.
REGISTERED ARCHITECT
Tony Rosabal, A.I.A., LEED AP
Florida Reg. No. 0013135 - 0013717

sheet number
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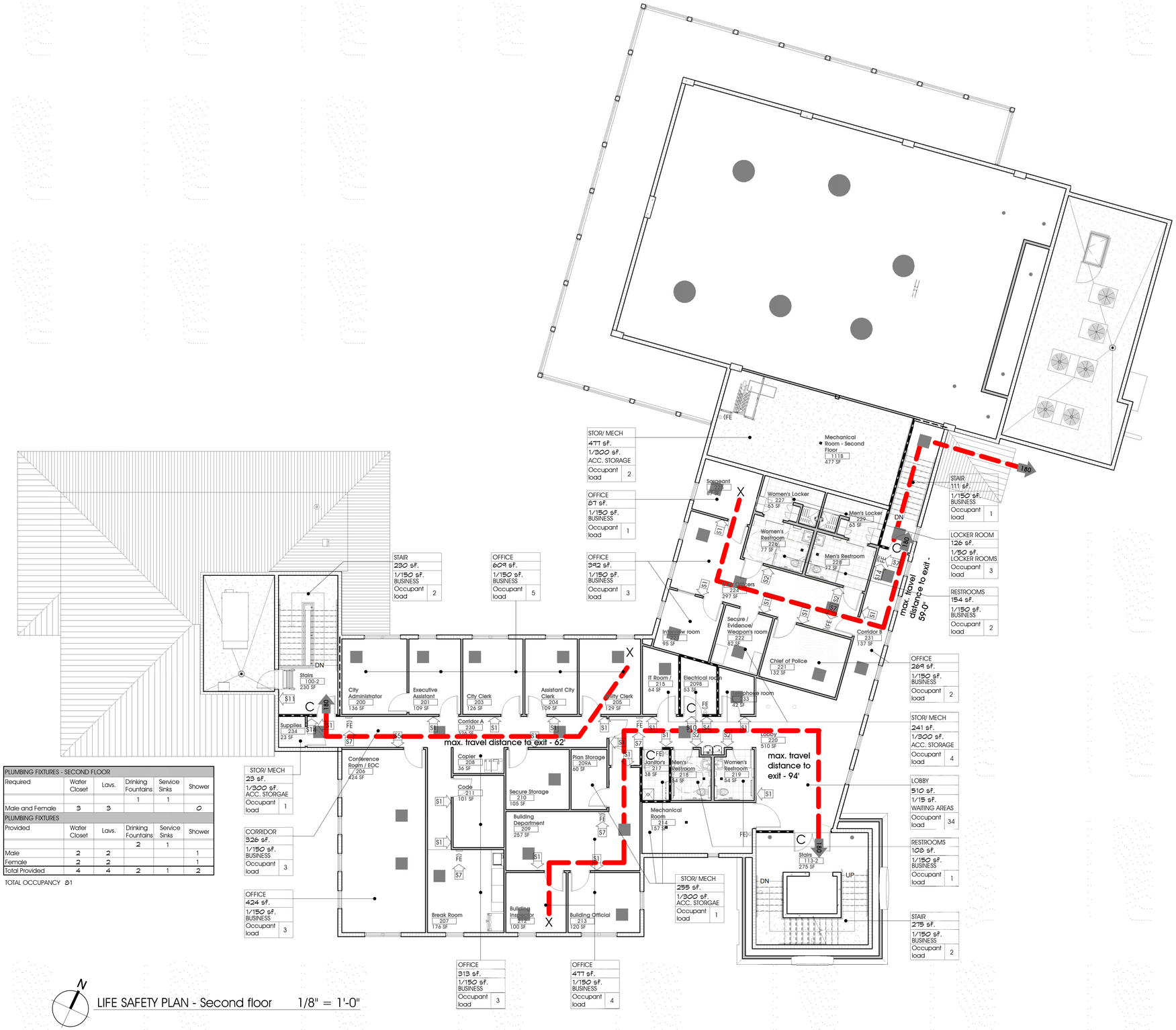

PLUMBING FIXTURES - SECOND FLOOR					
Required	Water Closet	Lavs.	Drinking Fountains	Service Sinks	Shower
			1	1	
Male and Female	3	3			0
PLUMBING FIXTURES					
Provided	Water Closet	Lavs.	Drinking Fountains	Service Sinks	Shower
			2	1	
Male	2	2			1
Female	2	2			1
Total Provided	4	4	2	1	2

TOTAL OCCUPANCY 81

LIFE SAFETY PLAN - Second floor 1/8" = 1'-0"

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600 W Ocean Dr . Key Colony . Florida 33051

LIVS project number:
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drawn by: Author
approved by: Checker

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

seal

Tony Rosabal, A.I.A., LEED AP
Florida Registered Architect

sheet number
LS1.1

sheet:
of

LIFE SAFETY LEGEND 1/8" = 1'-0"

- EXIT (CAPACITY AS NOTED)
- 1-HR FIRE RESISTIVE SEPARATION MASONRY WALL
- 1-HR FIRE RESISTIVE SEPARATION PARTITION
- Class C-45 min. shown
- DOOR FIRE RATING
- FE — FIRE EXTINGUISHER WALL MOUNTED WITH BRACKET
- FEC — FIRE EXTINGUISHER SEMI-RECESSED WALL MOUNTED
- MEANS OF EGRESS
- D — FIRE ALARM, DUCT MOUNTED, SMOKE DETECTOR.
- H — FIRE ALARM CEILING MOUNTED HEAR DETECTOR.
- F — FIRE ALARM MANUAL PULL STATION. 48" ABOVE FINISH FLOOR.
- F — FIRE ALARM HORN AND FLASHING STROBE LIGHT 6'-8" ABOVE FINISH FLOOR.
- L — FIRE ALARM FLASHING STROVE LIGHT 6'-8" ABOVE FINISH FLOOR.
- EMERGENCY LED EXIT LIGHT W/INTEGRAL BATTERY SYSTEM
- SURFACE OR PENDANT MOUNTED LINEAR LED FIXTURE ON LIFE-SAFETY EMERGENCY CIRCUIT W.INTEGRAL BATTERY SYSTEM
- RECESSED MOUNTED LINEAR LED FIXTURE ON LIFE-SAFETY EMERGENCY CIRCUIT W/INTEGRAL BATTERY SYSTEM

.

LIFE SAFETY NOTES:

DEMOLITION:

NFPA 1.16
IN ACCORDANCE WITH WITH NFPA 1, CHAPTER 16, FBC CHAPTER 33, NFPA 241 AND OSHA REGULATIONS FOR PROPER WASTE DISPOSAL OF CONSTRUCTION MATERIALS AND HAZARDOUS MATERIAL HANDLING. ACCESS AT SITE FOR EMERGENCY SERVICE VEHICLES INCLUDING ACCESS TO OTHER BUILDINGS, MAINTENANCE OF MEANS OF EGRESS, PRESERVATION OF EXISITING FIRE PROTECTIONS SYSTEMS, INCLUDING SITE INSTALLED FIRE PROTECTION EQUIPMENT AND CONNECTIONS OF EXISTING STRUCTURES, UTILITY DISCONNECTIONS INCLUDING THE RECERTIFICATION AND TESTING REQUIREMENTS OF THE FIRE ALARM SYSTEM.

ALL FIRE RATED WALLS SHALL EXTENT TO UNDERSIDE OF STRUCTURE OR FIRE RATED CEILING

ALL STRUCTURAL CONCEALED STEEL COLUMNS, BEAMS AND JOISTS SHALL BE PROTECTED WITH A SPRAYED ON CEMENTITIOUS FIRE PROOFING.

ACA CODE RESEARCH

ALL CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH:

Codes:

FLORIDA BUILDING CODE 2020 (Seventh edition)
FLORIDA ACCESSIBILITY CODE 2020 (Seventh edition)
FLORIDA BUILDING CODE 2020 (Seventh edition) ENERGY CONSERVATION
NFPA 101 LIFE SAFETY CODE (LSC), 2018 EDITION WITH FLORIDA AMENDMENTS.
NRCA ROOF MANUAL
FLORIDA FIRE PREVENTION CODE (FFPC), 2020 (Seventh edition)
ANSI / ASHARAE/IESNA 2013 90.1
NEC 2014

BUILDING DATA — FBC TABLE 1004.1.2

BUILDING CLASSIFICATION
TYPE II B

OCCUPANCY CLASSIFICATION
GROUP B

ALLOWABLE HEIGHTS AND BUILDING AREAS

	ALLOWED	AS DESIGNED
NUMBER OF STORIES	4	3
BUILDING HEIGHT	75 FT.	45 FT.
FLOOR AREA	69000 SF	12077 SF
1st FLOOR	------ SF	5945 SF
2nd FLOOR	SF	5354 SF
TOTAL GSF	------ SF	12,077 SF

CAPACITY OF MEANS OF EGRESS — FBC SEC. 1010.1.1, 1005.3.2

DOOR .2 CAPACITY FACTOR (Minimum required clear opening width 32")

SPACE	OCCUPANT LOAD	EGRESS COMPONENT	REQUIRED	PROVIDED
MARBLE HALL	190	DOORS	(200 x .2) = 40"	360"
POST OFFICE	29	DOORS	(29 x .2) = 5.8"	108"
OFFICES/ POLICE STATION	81	DOORS	(81 x .2) = 16.2"	144"

CAPACITY OF STAIR EGRESS — FBC TABLE 1020.2, FBC SEC. 1005.3.1

DOOR .3 CAPACITY FACTOR (Minimum required clear opening width 44")

SPACE	OCCUPANT LOAD	EGRESS COMPONENT	REQUIRED	MINIMUM PROVIDED
OFFICES/ POLICE STATION	81	STAIRS	(81 x .3) = 24.3"	54"

FIRE RATINGS OF BUILDING COMPONENTS — FBC SEC 602.2, FBC TABLE 601

BUILDING ELEMENT	TYPE II B
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS AND PARTITIONS EXTERIOR	
NONBEARING WALLS AND PARTITIONS INTERIOR	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0
VERTICAL OPENINGS	0

EGRESS CRITERIA — FBC TABLE 1006.2.1, 1006.3.2 1017.2, 1020.4 NFPA TABLE A-5-6.1

OCCUPANCY CLASSIFICATION GROUP B - BUSINESS	MAXIMUM ALLOWED	PROVIDED
MAX. TRAVEL DIST. TO EXIT	300 FT.	90 FT.
MAX DEAD END LIMIT	50 FT.	34' FT.
COMMON PATH LIMIT	100 FT.	77' FT.
MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS FROM 2ND STORY	2	3

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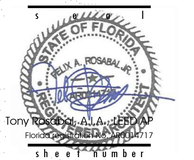

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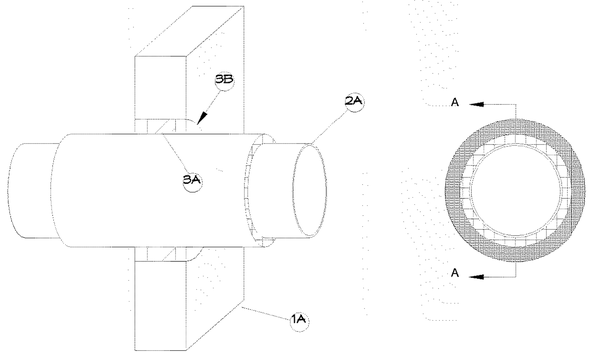


SECTION A-A

1. Wall assembly
   1A. Min. 4-1/2 in. NW or LW concrete or block wall with a max. 15 in. diameter penetrant opening. Wall assembly must be capable of a 1-1/2 hr. rating.

2. Penetrant
   2A. Max. 10 in. copper tubing, copper pipe, iron pipe, or steel pipe with a max. 1 in. thick AB/PVC foam insulation (Armaflex).

   Annular space - 1-1/2 in. nominal.

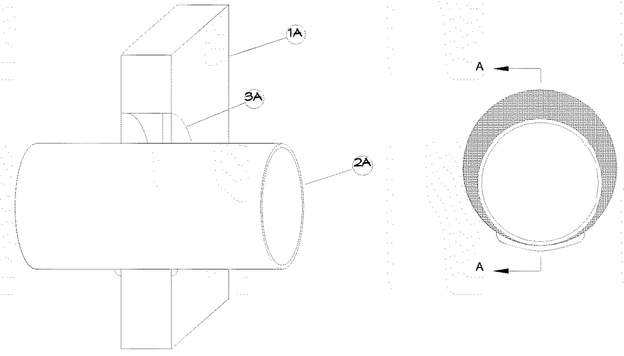
3. Firestopping - FlameSafe FS 1900 Series Sealant.
   3A. Compress mineral wool (6 pcf) into annular space a min. 2-1/2 in. thick (both sides), leaving room for sealant.

   3B. At wall surface, apply FS 1900 1 in. deep into annular space, finish flush with wall surface (both sides).

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 1479 (ASTM E814) Fire Tests of Through-Penetration Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 1 1/2 HOUR
UL System: CAJ5073



SECTION A-A

1. Wall assembly
   1A. Min. 3-3/4 in. and 4-1/2 in. NW concrete or block wall capable of a 1 or 2 hr. rating, respectfully. Max. 6 in. diameter penetrant opening.

2. Penetrant
   2A. Max. 4 in. diameter steel or iron pipe, EMT or steel conduit or max. 3 in. copper pipe or tubing.

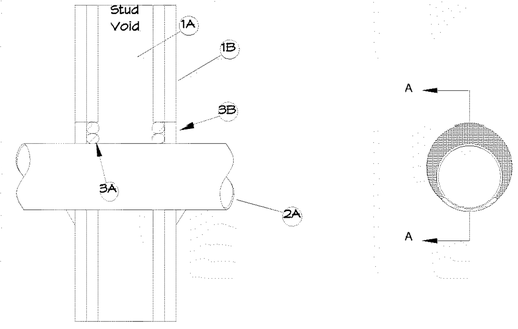
   Annular space - Min. 0 in. (point of contact) to max. 1-1/2 in.

3. Firestopping - FlameSafe FS 4000 Silicone Sealant
   3A. At wall surface, apply FS 4000 to a min. 5/8 in. deep for 1 hr. or min. 1-1/4 in. deep for 2 hr. into annular space and finish flush with the wall surface (both sides). Add a min. 1/4 in. bead of FS 4000 at any point of contact.

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 1479 (ASTM E814) Fire Tests of Through-Penetration Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 1 OR 2 HOUR
UL System: CAJ1565



SECTION A-A

1. Wall assembly - U400 Series Design
   1A. Metal studs 3 5/8" minimum at a maximum 16 in. on center

   1B. One layer of gypsum wallboard capable of providing a 1 hr. rating or two layers of gypsum wallboard capable of providing a 2 hr. rating. Max. diameter of penetrant opening for steel framing is 26-3/8 in. and a max. diameter of penetrant opening for wood framing is 14-1/2 in.

2. Penetrant
   2A. One of the following may be used;
   I. Max. 24 in. steel pipe.
   II. Max. 24 in. iron pipe.
   III. Max. 6 in. steel conduit or max. 4 in. EMT.
   IV. Max. 6 in. copper pipe of tubing.

   Annular space - Min. 0 in. to max. 2-3/8 in. for FS 900 or min. 0 in. to max. 2 in. for FS 900+ for FS 1900.

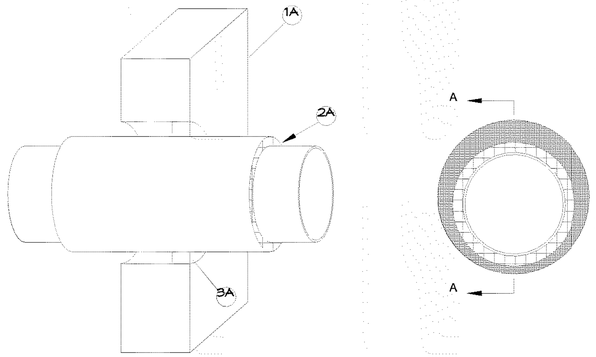
3. Firestopping - FlameSafe FS 900 Series Sealant.
   FlameSafe FS 900+ Series Sealant.
   FlameSafe FS 1900 Series Sealant.
   3A. Optional - Backer rod compressed into annulus,

   3B. Apply FS 1900, FS 900+ or FS 900 into annular space to a depth of 5/8 in. Add a 3/8 in. bead at any point of contact.

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 1479 (ASTM E814) Fire Tests of Through-Penetration Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 1 1/2 HOUR
UL System: WL1152



SECTION A-A

1. Wall assembly
   1A. Min. 4-1/2 in. LW or NW concrete or block wall with a max. 7 in. diameter penetrant opening. Wall assembly must be capable of a 1-1/2 hr. rating.

2. Penetrant
   2A. One max. 4 in. steel, iron or copper pipe or copper tubing with a max. 1 in. thick Fiberglass insulation.

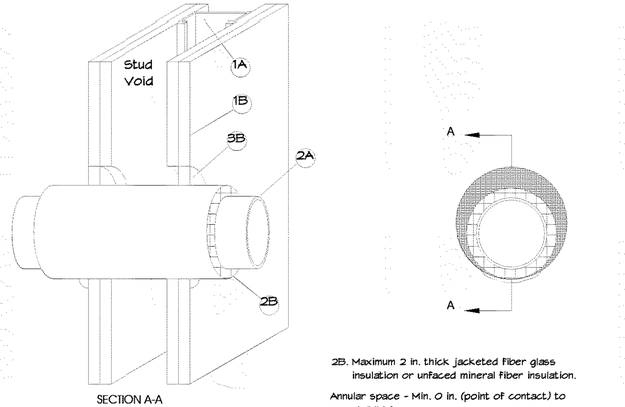
   Annular space - Min. 1/4 in. to max. 5/8 in.

3. Firestopping - FlameSafe FS 1900 Series Sealant.
   3A. At wall surface, apply FS 1900 into annular space to a min. 1 in. depth and finish flush with wall surface. For solid concrete walls, sealant may be installed at one side of the wall only. For block walls, sealant installed at both wall surfaces.

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 1479 (ASTM E814) Fire Tests of Through-Penetration Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 1 1/2 HOUR
UL System: CAJ5249



SECTION A-A

1. Wall assembly - U400 Series Design
   1A. Metal studs 3 5/8" minimum at a maximum 16 in. on center

   1B. One or two layers of gypsum board capable of providing a 1 or 2 hr. rating. Max. 14-1/2 in. diameter penetrant opening for wood studs and max. 18-5/16 in. diameter penetrant opening for steel studs. Diameter of penetrant opening min. 1 in. to max. 3 in. larger than outside diameter of insulation on penetrant.

2. Penetrant
   2A. Max. 12 in. steel or cast iron pipe or max. 6 in. copper pipe or tubing.

   Copper pipe or tubing may be max. 4 in. diameter when FS 1900 is used.

   2B. Maximum 2 in. thick jacketed fiber glass insulation or unfaced mineral fiber insulation.

   Annular space - Min. 0 in. (point of contact) to max. 1-9/16 in.

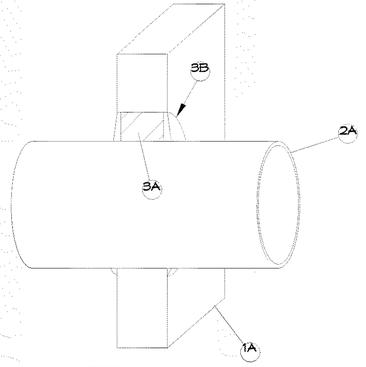
3. Firestopping - FlameSafe FS 900+ Series Sealant.
   FlameSafe FS 1900 Series Sealant.
   3A. Optional backer rod or mineral wool compressed into annulus as a damming material (not shown).

   3B. At wall surfaces apply FS 1900 or FS 900+ into opening a minimum 5/8 in. deep. Add a 3/8 in. bead of sealant at any point of contact.

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 1479 (ASTM E814) Fire Tests of Through-Penetration Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 1 1/2 HOUR
UL System: WL5171



SECTION A-A

1. Wall assembly
   1A. Min. 4-1/2 in. NW or LW concrete or block wall capable of a 2 hr. rating. Max. diameter of penetrant opening is 14 in.

   1B. Optional - (not shown) max. 14 in. diameter 5/10 steel sleeve cast or grouted into wall.

2. Penetrant
   2A. One of the following may be used:

Pipe	Sealant/Depth	F rating
Max. 10 in. steel	1/2 in.	2 hr.
Max. 6 in. conduit	1/2 in.	2 hr.
Max. 4 in. EMT	1/2 in.	2 hr.

   Annular space - Min. 0 in. (point of contact) to max. 2-1/2 in.

3. Firestopping - FlameSafe FS 1900 Series Sealant
   3A. Mineral wool (4 pcf) compressed into annular space to a min. 2 in. depth, leaving room for sealant (both sides).

   3B. At wall surface, apply FS 1900 sealant into annular space to a min. 1/2 in. depth with a 1/4 in. crown (both sides). Add a 3/8 in. bead to any point of contact.

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 1479 (ASTM E814) Fire Tests of Through-Penetration Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 2 HOUR
UL System: CAJ1387

NOTE: NOT ALL DETAILS ARE APPLICABLE FOR THIS PROJECT

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CITY OF KEY COLONY BEACH
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600 W Ocean Dr . Key Colony . Florida 33051

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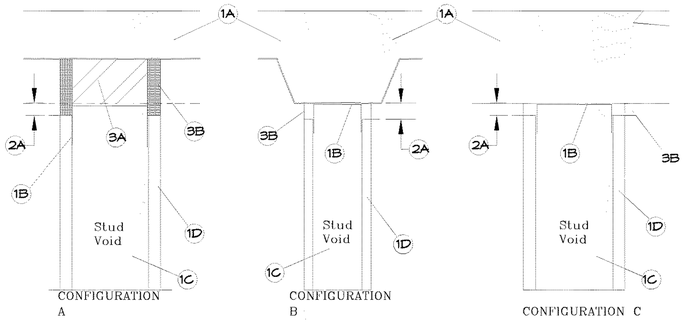


1. Floor and wall assembly
   1A. Max. 3 in. deep fluted steel deck with min. 3 in. depth of concrete per UL Floor-Ceiling design or min. 2-1/4 in. depth of insulating concrete per UL P900 series design for both CONFIGURATIONS A & B. Min. 4-1/2 in. thick NW or LW concrete for CONFIGURATION C.

   1B. Min. 25 gauge galv. 1-1/4 in. deep leg steel channels. (Optional - Slotted SLP-TRK, Metal-Lite or Clipped Snap Track Ceiling Runner).

   1C. Min. 3-5/8 in. wide steel studs cut 3/4 in. less in length than assembly height.

   1D. One layer of gypsum wallboard capable of a 1 hr. rating.

   * Studs and wallboard must have a min. 1/4 in. engagement onto legs of steel channels at the furthest point of extension of the joint.

2. Dynamic joint
   2A. Max. joint width is 1 in. from bottom of the floor or roof to top of gypsum wallboard.

   Joint was tested to total movement of 25% (compression only).

3. Firestopping - FlameSafe® FS 900+ Series Sealant.
   FlameSafe® FS 1900 Series Sealant.

   CONFIGURATION A
   3A. Mineral wool (4 pcf) compressed a min. 20% into fluted area and a min. 50% into joint above the gypsum wallboard assembly, recessed a min. 5/8 in. from both wall surfaces to accommodate sealant.

   Optional - Mineral wool plugs (8 pcf) cut slightly larger than shape of flute, recess 5/8 in. from wall surfaces.

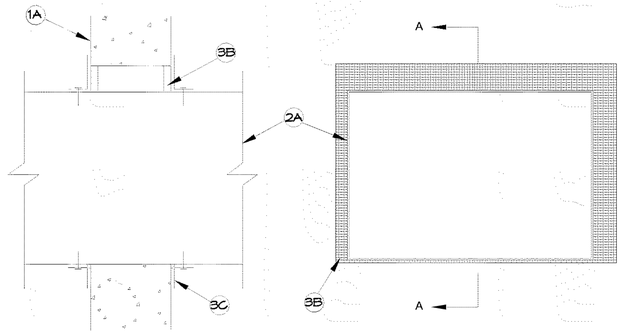
   CONFIGURATIONS B & C
   3A. Optional - Mineral wool (4 pcf) or backer rod compressed into joint above the gypsum wallboard, recessed a min. 5/8 in. from both wall surfaces to accommodate sealant.

   3B. Apply FS 900+ into joint a min. 5/8 in. deep and finish flush with wall surface (both sides). FS 1900 may be used for CONFIGURATION C.

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 2079 (ASTM E1399 and E1966) Fire Tests of Dynamic Joint Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 1 HOUR
UL System: HWD0146



SECTION A-A

1. Wall assembly
   1A. Min. 6 in. NW or LW concrete or block wall with a max. penetrant opening of 1470 sq. in. and a max. dimension of 70 in. Wall assembly must be capable of a 2 hr. rating.

2. Penetrant
   2A. Max. 67 in. by 18 in. HVAC steel duct No. 24 gauge or heavier.

   Annular space - Min. 0 in. (point-of-contact) to a max. 3-1/2 in.

3. Firestopping - FlameSafe® FS 900+ Series Sealant
   3A. Optional - Backer rod or mineral wool backing compressed into annular space as a damming material recessed from wall surface to accomodate the sealant (not shown).

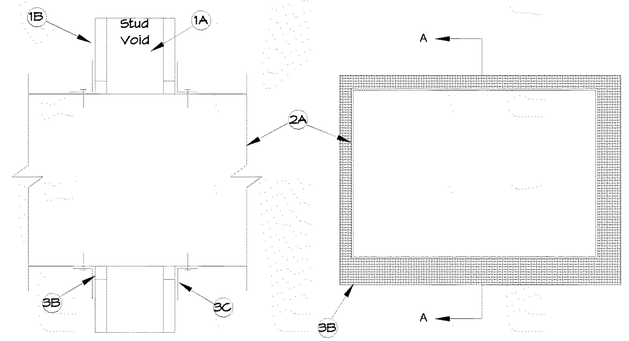
   3B. Apply FS 900+ at a min. 5/8 in. depth Finished flush with the wall surface (both sides).

   3C. Min. 22 ga. galv. steel angles sized to lap duct a min. 2 in. and lap wall surfaces a min. 1-1/2 in. Attach angles to steel duct on both sides of wall with min. No. 10 steel sheet metal screws spaced a max. 6 in. OC.

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 1479 (ASTM E814) Fire Tests of Through-Penetration Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 2 HOUR
UL System: WL7045



SECTION
A-A

1. Wall assembly - UL U300 or U400 Series Design
   1A. Wood studs min. 2 x 4 in. nominal at a max. 16 in. on center or steel studs min. 2 x 3 in. nominal (2 x 4 in. for a 1 hr. assembly) at a max. 24 in. on center.

   1B. One layer of gypsum wallboard capable of providing a 1 hr. rating or two layers of gypsum wallboard capable of providing a 2 hr. rating. Max. penetrant opening is 23 in. x 43 in.

2. Penetrant
   2A. Max. 20 in. by 40 in. HVAC steel duct No. 24 gauge or heavier.

   Annular space - Min. 3/4 in. to a max. 2-1/4 inch.

3. Firestopping - FlameSafe® FS 1900 Series Sealant.
   3A. (Optional) - Mineral wool backing (4 pcf) or PE backer rod used as a damming material. Recess a min. 5/8 to accomodate the FS 1900 sealant.

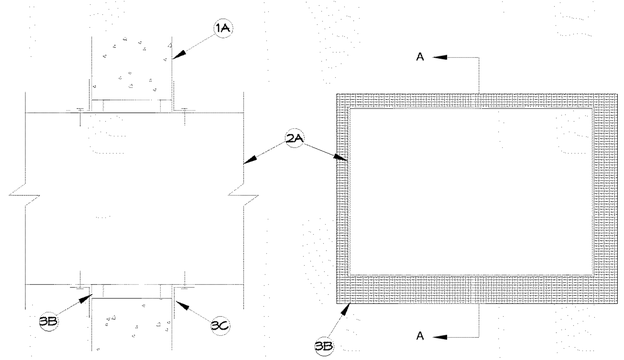
   3B. Apply FS 1900 at a minimum 5/8 in. depth.

   3C. Min. 16 ga. galv. steel angles sized to lap duct a min. 2 in. and lap wall surfaces a min. 1 in. Attach angles to steel duct on both sides of wall with min. No. 10 by 1/2 in. long steel anchors spaced a max. 6 in. OC.

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 1479 (ASTM E814) Fire Tests of Through-Penetration Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 1 & 2 HOUR
UL System: WL7027



SECTION A-A

1. Floor and wall assembly
   1A. Min. 4-1/2 in. thick NW or LW concrete floor capable of a 2 hr. rating.

   Optional (not shown) min. 6 in. precast hollow core concrete units capable of a 2 hr. rating.

   1B. Min. 4-1/2 in. NW or LW concrete or block wall capable of a 2 hr. rating.

2. Dynamic joint
   2A. Max. joint width is 1 in. from bottom of concrete floor to top of wall.

   Joint was tested to a total movement of 25% (compression and elongation).

3. Firestopping - FlameSafe® FS 900+ Series Sealant.
   FlameSafe® FS 1900 Series Sealant.
   3A. Optional backer rod (not shown) compressed into joint as a damming material. Recess the backer rod from wall surface to accommodate sealant (both sides).

   3B. Apply FS 900+ into joint a min. 1/2 in. deep or FS 1900 into joint a min. 5/8 in. deep and finish flush with wall surface (both sides).

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 2079 (ASTM E1399 and E1966) Fire Tests of Dynamic Joint Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 2 HOUR
UL System: HWD0189

SECTION
A-A

1. Wall assembly
   1A. Min. 6 in. thick NW or LW concrete or block wall capable of a 2 hr. rating.

2. Penetrant
   2A. Max. 20 in. by 40 in. HVAC steel duct No. 24 gauge or heavier.

   Annular space - Min. 3/4 in. to a max. 2-1/4 in.

3. Firestopping - FlameSafe® FS 1900 Series Sealant.
   3A. (Optional) mineral wool backing (4 pcf) or PE backer rod used as a damming material. Recess a min. 5/8 to accomodate the FS 1900 sealant.

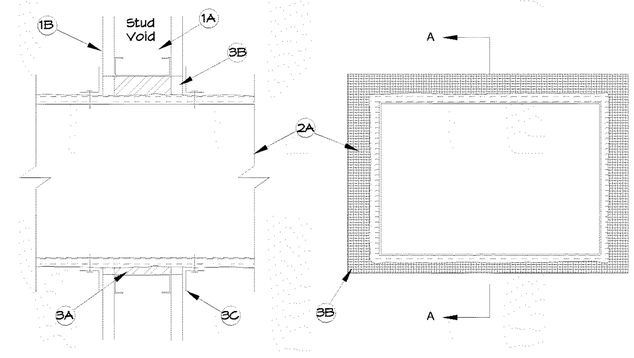
   3B. Apply FS 1900 a min. 5/8 deep (both sides).

   3C. Min. 16 ga. galv. steel angles sized to lap duct a min. 2 in. and lap wall surfaces a min. 1 in. Attach angles to steel duct on both sides of wall with min. No. 10 by 1/2 in. long steel anchors spaced a max. 6 in. OC.

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 1479 (ASTM E814) Fire Tests of Through-Penetration Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 2 HOUR
UL System: WL7008



SECTION A-A

1. Wall assembly - UL U300 or U400 Series Design
   1A. Wood studs min. 2 x 4 in. nominal at a max. 16 in. on center or steel studs min. 2 x 3 in. nominal (2 x 4 in. for a 1 hr. assembly) at a max. 24 in. on center.

   1B. One layer of gypsum wallboard capable of providing a 1 hr. rating or two layers of gypsum wallboard capable of providing a 2 hr. rating. When framed with steel studs, max. penetrant opening is 1050 sq. in. with a max. dimension of 35 in. When wood studs are used, the max. penetrant opening is 507 sq. in. with a max. horizontal dimension of 14-1/2 in.

2. Penetrant
   2A. Max. 30 in. by 24 in. HVAC steel duct No. 24 gauge or heavier with max. 1-1/2 in. thick fiberglass or mineral wool insulation jacketed with foil scrim kraft facing.

   Annular space - Min. 1 in. to max. 2-3/4 in.

3. Firestopping - FlameSafe® FS 900+ Series Sealant
   3A. Mineral wool (4 pcf) compressed into annular space as a damming material recessed from wall surface to accomodate the sealant.

   3B. Apply FS 900+ at a min. 5/8 in. depth finished flush with the wall surface (both sides).

   3C. Min. 22 ga. galv. steel angles sized to lap duct a min. 2 in. and lap wall surfaces a min. 1-1/2 in. Attach angles to steel duct on both sides of wall with min. No. 10 steel sheet metal screws spaced a max. 6 in. OC.

Notes

1. This system drawing is provided to aid in the installation and selection of the UL listed design. The user shall refer back to the UL listed design for complete information required for submittal and approval purposes.
2. System design evaluated to the UL 1479 (ASTM E814) Fire Tests of Through-Penetration Firestops.
3. Please refer to the UL Fire Resistance Directory for components requiring UL classification.

THIS INFORMATION BASED ON GRACE CONSTRUCTION PRODUCTS
Assembly Rating: 1 & 2 HOUR
UL System: WL5171

LIVS ASSOCIATES
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600 W Ocean Dr . Key Colony . Florida 33051

LIVS project number:
201913

Client project number:
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sheet title
DETAILS

revisions

issued for:
BID SET

issue date:
05.01.23

drawn by:	approved by:
Author	Checker

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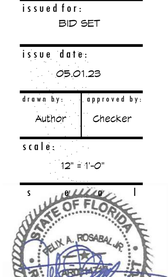
12" = 1'-0"



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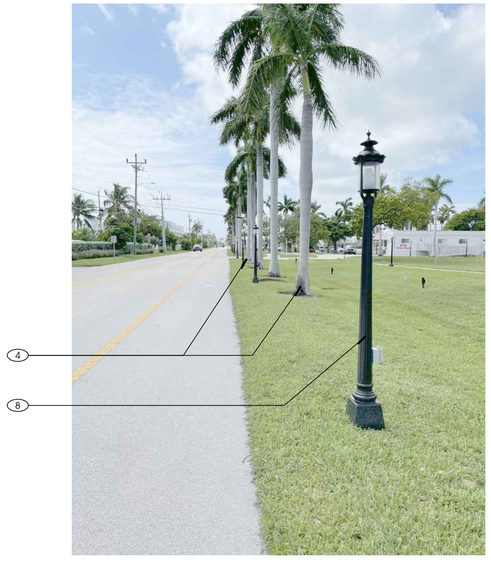



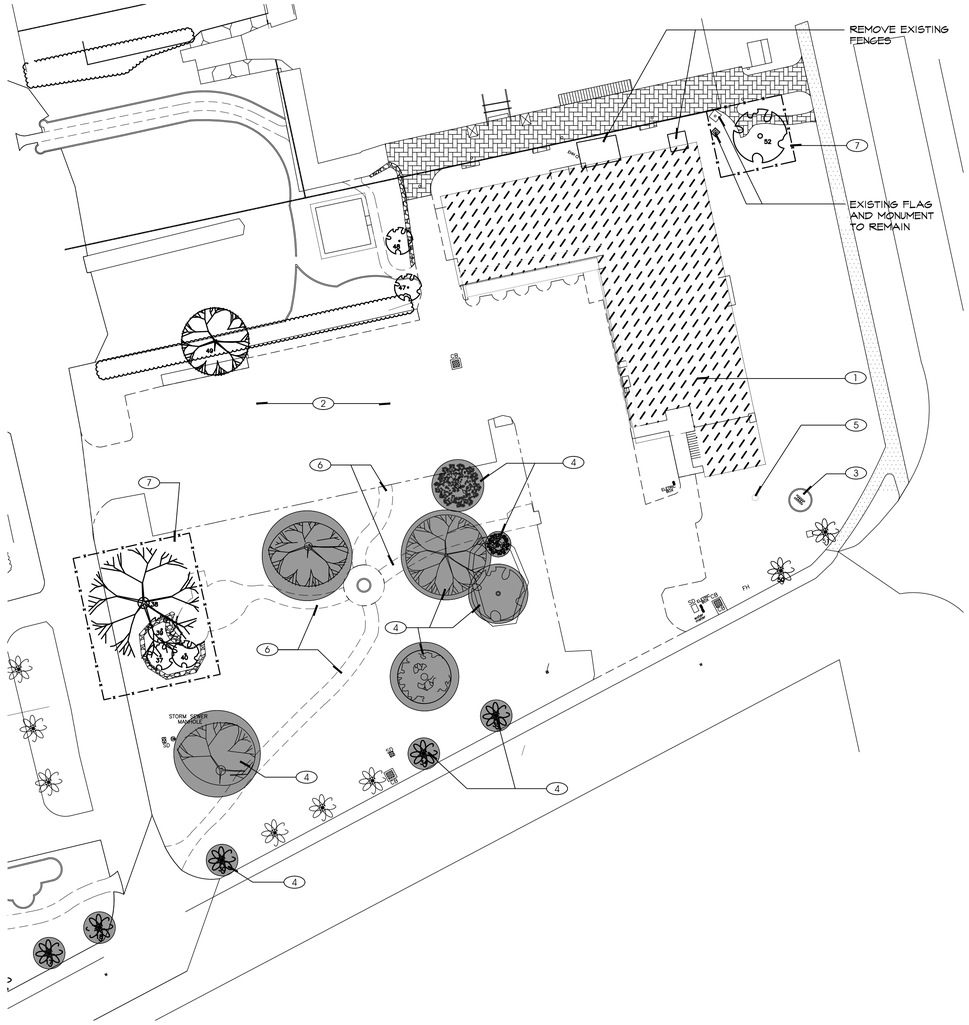

SITE PLAN - Demolition 1 /32"=1'-0"

LEGEND:

- BUILDING TO BE DEMOLISHED
- EXISTING CONCRETE CURB
- EXISTING FENCE TO BE DEMOLISHED
- EXISTING TREES TO REMAIN
- EXISTING TREES TO BE REMOVED
- EXISTING PAVEMENT TO BE REMOVED
- EXISTING ASPHALT TO BE DEMOLISHED

DEMOLITION NOTES

1. REMOVE BUILDING IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO FOUNDATION, CONCRETE SLAB, ROOF STRUCTURE AND ASSOCIATED COMPONENTS. COORDINATE WITH OWNER WHAT ITEMS THEY MIGHT LIKE TO RETAIN. PREPARE SURFACE TO RECEIVE NEW ASPHALT AS NOTED IN CIVIL DRAWINGS. REFER TO ELECTICAL SHEETS FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING ASPHALT TO ENTIRETY (REFER TO CIVIL SHEETS FOR ADDITIONAL INFORMATION)
3. REMOVE EXTERIOR MARQUEE SIGN, IN ALL ITS ENTIRETY, INCLUDING CONCRETE SLAB AND FOUNDATION.
4. REMOVE EXISTING TREES / PALMS. REFER TO LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION.
5. REMOVE EXISTING FLAGSPOLE FOR REINSTALLATION. REFER TO SHEET AS1.0 FOR NEW LOCATION.
6. REMOVE PAVER WALKWAY IN ITS ENTIRETY.
7. PROTECT TREES INDICATED TO REMAIN AS REQUIRED WITH ACCEPTABLE BARRIGADES OR TEMPORARY FENCING DURING CONSTRUCTION WITHIN TEMPORARY PARKING AND OTHER AREAS WITHIN THE PROJECT LIMITS.
8. REMOVE LIGHT POLES AS INDICATED IN ELECTRICAL DRAWINGS.

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consultant:

CITY OF KEY COLONY BEACH | CITY HALL
600 W Ocean Dr . Key Colony . Florida 33051

LIVS project number:
201913

Client project number:
-

sheet title
SITE PLAN - DEMOLITION

revisions

issued for:
BID SET

issue date:
05.01.23

drawn by: | approved by:

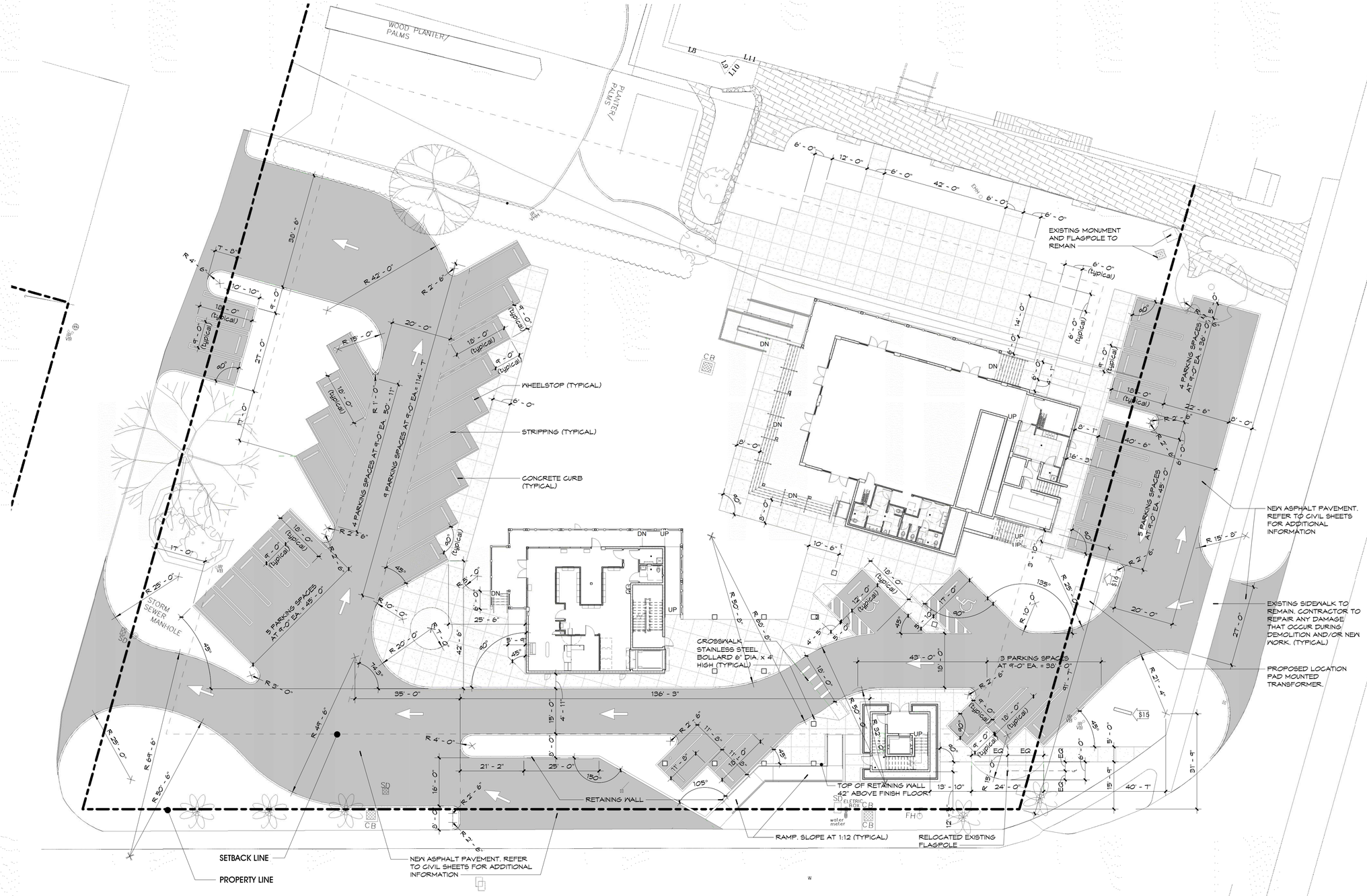
scale:
AS INDICATED



Tony Rosabal, A.I.A., LEED AP
Florida Registered Architect #0017717

sheet number
AD1.0

sheet:
of


WOOD PLANTER/ PALMS
PLANTER/ PALMS
L8
L9
L10
L11
EXISTING MONUMENT AND FLAGPOLE TO REMAIN
NEW ASPHALT PAVEMENT. REFER TO CIVIL SHEETS FOR ADDITIONAL INFORMATION
EXISTING SIDEWALK TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGE THAT OCCUR DURING DEMOLITION AND/OR NEW WORK. (TYPICAL)
PROPOSED LOCATION PAD MOUNTED TRANSFORMER.
WHEELSTOP (TYPICAL)
STRIPPING (TYPICAL)
CONCRETE CURB (TYPICAL)
CROSSWALK STAINLESS STEEL BOLLARD 6" DIA. x 4' HIGH (TYPICAL)
RETAINING WALL
TOP OF RETAINING WALL 42" ABOVE FINISH FLOOR
RAMP. SLOPE AT 1:12 (TYPICAL)
RELOCATED EXISTING FLAGPOLE
SETBACK LINE
PROPERTY LINE
NEW ASPHALT PAVEMENT. REFER TO CIVIL SHEETS FOR ADDITIONAL INFORMATION
STORM SEWER MANHOLE
5 PARKING SPACES AT 9'-0" EA. = 45'-0"
9 PARKING SPACES AT 9'-0" EA. = 114'-7"
4 PARKING SPACES AT 9'-0" EA. = 36'-0"
3 PARKING SPACES AT 9'-0" EA. = 30'-0"
5 PARKING SPACES AT 9'-0" EA. = 45'-0"
136' - 3"
35' - 0"
42' - 0"
6' - 0"
12' - 0"
6' - 0"
42' - 0"
6' - 0"
6' - 0"
6' - 0" (typical)
14' - 0"
6' - 0" (typical)
6' - 0" (typical)
18' - 0" (typical)
9' - 0" (typical)
18' - 0" (typical)
9' - 0" (typical)
18' - 0" (typical)
9

GENERAL NOTES (not all notes apply)

1. GENERAL CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL AREAS AND SHALL MAKE ALL ADJUSTMENTS NECESSARY AT NO ADDITIONAL COST PRIOR TO SUBMITTING BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR QUANTITIES, DIMENSIONS , ELEVATIONS, AND CONFORMANCE TO CODE.

2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH FLORIDA BUILDING CODE, NFPA CODE, AND NOT LIMITED TO APPLICABLE LOCAL AND MUNICIPAL BUILDING CODES, RULES AND REGULATIONS AS WELL AS ANY AND ALL REGULATORY AGENCIES INCLUDING BUT NOT LIMITED TO OSHA, DOH, ADA, ETC. NEW WORK AND DEMOLITION OPERATIONS SHALL BE IN COMPLIANCE WITH SECTION AND CHAPTERS OF THE CODE LISTED BELOW FOR PROPER WASTE DISPOSAL OF CONSTRUCTION MATERIALS, HAZARDOUS MATERIAL HANDLING, ACCESS AT SITE FOR EMERGENCY SERVICE VEHICLES, INCLUDING TO OTHER BUILDINGS, AT ALL TIMES, MAINTENANCE OF MEANS OF EGRESS, AND PRESERVATION OF EXISTING FIRE PROTECTION SYSTEMS: FFPC (NFPA 1 Chapter 16), FBC Chapter 33, NFPA 241, AND OSHA REGULATIONS.

3. INTERIOR FINISHES SHALL BE CLASS C IN ACCORDANCE WITH TABLE 803.11 OF THE 2020 FBC-B, AS ALLOWED FOR LOW HAZARD CONTENTS IN ACCORDANCE WITH NFPA 101-6.2.2.1

4. ALL WORK MUST BE DONE IN STRICT ACCORDANCE WITH THE BEST PRACTICES OF THE CONSTRUCTION INDUSTRY. AND MUST BE PERFORMED IN A PROFESSIONAL AND WORKMANLIKE MANNER. ANY WORK COMPLETED IN A NON-PROFESSIONAL MANNER SHALL BE REJECTED AND MUST BE REDONE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION, PROJECT SUPERVISION, AND CONSTRUCTION AND WORK SITE SAFETY. ACTIONS OF AND/OR INFORMATION PROVIDED BY THE ARCHITECT / ENGINEER SHALL NOT BE CONSTRUED TO RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY, REGARDLESS OF THE CIRCUMSTANCES.

6. THE CONTENTS OF THESE GENERAL NOTES SHALL NOT DETRACT ANY REQUIREMENTS FROM THESE DRAWINGS.

7. DETAILS AND NOTES LABELED "TYPICAL" ON THE DRAWINGS APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED OR NOTED. SUCH DETAILS APPLY WHETHER OR NOT THEY ARE KEYED IN EACH LOCATION. QUESTIONS REGARDING APPLICABILITY OF TYPICAL DETAILS OR NOTES SHALL BE RESOLVED BY THE ARCHITECT.

8. THE ARCHITECTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE MECHANICAL AND ELECTRICAL AND OTHER DRAWINGS AND CONTRACT DOCUMENTS. USE THESE NOTES IN CONJUNCTION WITH THE DRAWINGS AND SPECIFICATIONS. IF A CONFLICT EXISTS, THE MORE STRINGENT REQUIREMENT GOVERNS.

9. ALL WORK THAT IS REASONABLY IMPLIED AND/OR INFERRED IN THE CONTRACT DOCUMENTS, DRAWINGS AND/OR SPECIFICATIONS, AND WHICH IS NECESSARY FOR AND/OR INCIDENTAL TO A COMPLETE INSTALLATION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

10. THE INCLUSION OF ANY WORK BY MENTION, ANNOTATION, DETAIL, ITEMIZATION, AND/OR OTHER REFERENCE, IMPLICATION, OR INFERENCE, HOWEVER BRIEF, SHALL BE CONSIDERED TO INDICATE THAT THE CONTRACTOR IS TO PROVIDE SUCH WORK AS NECESSARY FOR, AND/OR INCIDENTAL TO A COMPLETE INSTALLATION CONSISTENT WITH THE DESIGN INTENT.

11. REVISIONS ARE ENCIRCLED BY AN IRREGULAR "CLOUD", AS WELL AS FLAGGED WITH THE CURRENT REVISION NUMBER WHICH IS IDENTIFIED BY A REVISION NUMBER WITHIN A TRIANGLE. ALL REVISIONS ISSUED ON A SINGLE DATE WILL BE IDENTIFIED BY THE SAME REVISION NUMBER ISSUED CONSEQUENTLY.

12. AFTER COMPLETION OF ALL WORK SITE SHALL BE LEFT CLEAN AND FREE OF ANY CONSTRUCTION DEBRIS.

13. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OR CHARGE OF THE CONSTRUCTION MEANS, METHODS, SEQUENCES OR PROCEDURES OR FOR SAFETY PRECAUTIONS AND PROGRAMS.

14. DO NOT SCALE DRAWING: USE DIMENSION INDICATED ON DRAWINGS. DIMENSIONS OF LARGER SCALE DRAWING AND DETAILS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND VERIFY SAME IN FIELD.

15. PRIOR TO SUBMISSION OF A BID OR COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL REPORT ANY AND ALL APPARENT DISCREPANCIES, ERRORS, AND/OR OMISSIONS WHICH MIGHT AFFECT THE CONTRACT PRICE AND/OR CONTRACT DURATION.

16. ALL DRYWALL, PLASTER, AND STUCCO SHALL RECEIVE NUMBER OF COATS OF PREMIUM QUALITY PAINT AS PER PAINT SPEC. (IF APPLICABLE WOOD SHALL BE PAINTED OR STAINED AS PER SPEC.) COLOR TO BE SELECTED BY OWNER.

17. THE CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTAL MATERIAL REQUIRED TO PROPERLY INSTALL, SUPPORT, AND BRACE ALL ITEMS AND COMPONENTS WITHIN THE WORK.

18. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL CUSTOM FABRICATED WORK. CONTRACTOR SHALL REVIEW/APPROVE ALL SUBMITTALS/SHOP DRAWING PRIOR TO SUBMITTING FOR ARCHITECTS REVIEW.

    THE FOLLOWING EXTERIOR COMPONENTS IF APPLICABLE REQUIRE SHOP DRAWINGS PREPARED BY A DELEGATED ENGINEER LICENSED IN FLORIDA WITH THE RESPONSIBILITY TO DESIGN THE COMPONENTS WHERE APPLICABLE:

    WINDOWS
    DOORS
    FENCES

    SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER. SHOP DRAWINGS AND CALCULATIONS ARE SOLELY THE RESPONSIBILITY OF THE DELEGATED ENGINEER INCLUDING BUT NOT LIMITED TO THE ACCURACY AND COMPLIANCE WITH ANY PERTINENT CODE REQUIREMENTS. REFER TO SPECIFICATIONS FOR COMPLETE LIST.

    DELEGATED ENGINEER, TO SPECIFY INDIVIDUAL DESIGN PRESSURES AT EACH EXTERIOR COMPONENT AS PART OF THE SHOP DRAWING. THE SHOP DRAWINGS TO INCLUDE BUILDING ELEVATIONS SHOWING THE INDIVIDUAL DESIGN PRESSURES AT EACH OPENING INCLUDING BUT NOT LIMITED TO ALL OPERATIVE WINDOWS, LOUVERS AND FIXED GLAZING.

19. IN THE EVENT THERE ARE FOUND DISCREPANCIES OR AMBIGUITIES IN OR OMISSION FROM THE SPECIFICATIONS OR DRAWINGS, OR SHOULD THERE BE DOUBT AS TO THEIR MEANING AND INTENT, THE ARCHITECT SHALL BE NOTIFIED IN ORDER TO PROVIDE CLARIFICATION IN THE 30 DAY FOLLOWING THE OWNER'S NOTICE TO PROCEED.

20. ALL DIMENSIONS SHOWN AT EXISTING FACILITIES ARE BASED UPON BEST AVAILABLE INFORMATION FROM RECORD DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AND SHALL MAKE ALL ADJUSTMENTS NECESSARY AT NO ADDITIONAL COST.

21. ALL REQUIRED TESTS SHALL BE PERFORMED BY CONTRACTOR. TESTING REQUIRED FOR PRODUCT APPROVAL TO BE PROVIDED BY GENERAL CONTRACTOR AND INCLUDED IN THEIR GMP.

22. ALL DRYWALL, PLASTER, AND STUCCO SHALL RECEIVE NUMBER OF COATS OF PREMIUM QUALITY PAINT AS PER PAINT SPEC. WOOD SHALL BE PAINTED OR STAINED AS PER SPEC.

23. THE CONTRACTOR SHALL OBTAIN FROM ALL SUB CONTRACTORS THE SIZE AND LOCATION OF ALL OPENINGS TO BE PROVIDED BY THEIR RESPECTIVE TRADE. THE CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION, LOCATION, SIZE, AND DETAIL..

24. THE GENERAL CONTRACTOR GUARANTEES AND WARRANTS THAT ALL WORK PERFORMED SHALL BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER THE ISSUANCE OF THE CERTIFICATE OF FINAL COMPLETION ANY DEFECTS OR DAMAGE DISCOVERED DURING SAID PERIOD SHALL BE REPAIRED OR REPLACED AS DIRECTED IN WRITING BY THE ARCHITECT, AT NO ADDITIONAL COST.

25. CONTRACTOR TO NOTIFY OWNER AND/OR ARCHITECT IN WRITING AT LEAST ONE WEEK PRIOR TO FINAL INSPECTION. CONTRACTOR TO PROVIDE PUNCH LIST AND COMPLETED WORKS PRIOR TO OWNERS INSPECTION LIST. FINAL DISBURSEMENT TO CONTRACTOR SHALL NOT BE MADE UNTIL OWNERS PUNCH LIST HAS BEEN SATISFIED. CONTRACTOR TO PROVIDE OWNER WITH WRITTEN GUARANTEE ON ALL EQUIPMENT. CONTRACTOR AT COMPLETION OF WORK SHALL REMOVE FROM THE PREMISES ALL RUBBISH, IMPLEMENTS, EQUIPMENT, AND SURPLUS MATERIALS, LEAVE THE PROJECT "BROOM CLEAN."

26. UPON REQUEST LIVS CAN MAKE AVAILABLE A COPY OF ITS INSTRUMENTS OF PROFESSIONAL SERVICE IN ELECTRONIC MEDIA FORM FOR THE PURPOSE OF UTILIZING THE AUTOCAD DRAWING FILES TO DEVELOP OTHER DOCUMENTS FOR A PRE-PAYMENT OF $150.00 PER SHEET.

27. ALL NEW AND EXISTING PENETRATIONS THROUGH RATED WALLS MUST BE PATCHED WITH A FIRE RATED PRODUCT TO MAINTAIN THE CURRENT RATING. REFER TO SHEETS L53.0 AND L53.1 FOR FIRE STOPPING DETAILS.

28. ALL EXPOSED STEEL SHALL BE GALVANIZED AND PAINTED.

CODES

ALL CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH:

FLORIDA BUILDING CODE 2020 (Seventh edition)
FLORIDA ACCESSIBILITY CODE 2020 (Seventh edition)
FLORIDA BUILDING CODE 2020 (Seventh edition) ENERGY CONSERVATION
NFPA 101 LIFE SAFETY CODE (LSC), 2018 EDITION WITH FLORIDA AMENDMENTS.
NRCA ROOF MANUAL
FLORIDA FIRE PREVENTION CODE (FFPC), 2020 (Seventh edition)
ANSI / ASHARAE/IESNA 2013 90.1
NEC 2014

SYMBOL LEGEND (not all symbols apply)

MASONRY WALL

INTERIOR PARTITION

1-HOUR FIRE RESISTIVE MASONRY WALL.
REFER TO PARTITION TYPES

1-HOUR FIRE RESISTIVE INTERIOR PARTITION.
REFER TO PARTITION TYPES IN SHEET A6.1

2-HOUR FIRE RESISTIVE INTERIOR PARTITION.
REFER TO PARTITION TYPES IN SHEET A6.1

12-01 — DOOR AND FRAME WITH DOOR IDENTIFICATION TAG WITH DOOR NUMBER. SEE DOOR SCHEDULE ON SHEET A7.0

P1 — INDICATES PARTION TYPES. REFER TO SHEETS A6.1

A — INDICATES WINDOW TYPES. REFER TO SHEET A7.1

1 — INDICATES ELEVATION. REFER TO SHEETS A15.0-A15.1

S1 — INDICATES SIGNAGE TYPES . REFER TO SHEET A16.0 AND A16.1

FE — FIRE EXTINGUISHER (SURFACE MOUNTED WITH BRACKET ONLY)

FE — FIRE EXTINGUISHER CABINET (SEMI-RECESSED CABINET WITH EXPOSED FRAME)

A / A8.0 — DETAIL
INDICATES SECTION REFERENCE SHEET WHERE SECTION IS SHOWN

1 / A5.0 — SECTION
INDICATES DETAIL REFERENCE SHEET WHERE DETAIL IS SHOWN

N — NORTH ARROW

Name (+ Elevation NGVD) — ELEVATION MARK

1 — INDICATES FINISH TYPE

1 — REVISION MARK

ABBREVIATIONS

A	A.F.F.	ABOVE FINISH FLOOR
	ACOUST.	ACOUSTICAL
	AB	ANCHOR BOLT
	A/C	AIR CONDITIONING
	A.H.U.	AIR HANDLING UNIT
	ALUM.	ALUMINUM
	A.T.C.	AMERICAN TILE COUNCIL
B	BM.	BEAM
	B.M.	BENCH MARK
	BD.	BOARD
	BLK.	BLOCK
	BOT.	BOTTOM
	B.O.F.	BOTTOM OF FOOTING
	BLDG.	BUILDING
	B.C.P.S.	BROWARD COUNTY PUBLIC SCHOOLS
C	CAB.	CABINET
	C.I.P.	CAST IN PLACE
	C.B.	CATCH BASIN
	CLG.	CEILING
	CL	CENTER LINE
	CEM.	CEMENT
	CER.	CERAMIC
	C.T.	CERAMIC TILE
	C.H.	CLOTHES HANGER
	C.J.	CONTROL JOINT
	COL.	COLUMN
	C.M.U.	CONCRETE MASONRY UNIT
	CONC.	CONCRETE
	CONT.	CONTINUOUS
D	D	DEEP
	DET.	DETAILS
	DIA.	DIAMETER
	DIM.	DIMENSION
	DBL.	DOUBLE
	DN.	DOWN
	D.O.S.	DOOR OPENING SIZE
	DWG.	DRAWING
E	EA.	EACH
	ELECT/ELEC	ELECTRICAL
	E.C.	ELECTRICAL CONDUIT
	EWC	ELECTRICAL WATER COOLER
	EWH	ELECTRICAL WATER HEATER
	EL.	ELEVATION
	ELEV.	ELEVATOR
	EQ.	EQUAL
	EQUIP.	EQUIPMENT
	EXIST.	EXISTING
	EXP.	EXPANSION/EXPOSED
	EXT.	EXTERIOR
F	FAB.	FABRICATE
	F.V.	FIELD VERIFY
	FIN.	FINISH
	F.F.	FINISH FLOOR
	F.E.	FIRE EXTINGUISHER
	F.E.C.	FIRE EXTINGUISHER CABINET
	F.H.C.	FIRE HOSE CABINET
	F.C.	FLOOR COVERING
	F.D.	FLOOR DRAIN
	FTG.	FOOTING
G	GALV.	GALVANIZED
	G.S.	GALVANIZED STEEL
	GA.	GAUGE
	GL.	GLASS
	GNK.	GOOSENECK
	GOVT.	GOVERNMENT
	GB.	GRAB BAR
	GYP. BD.	GYPSUM BOARD
H	HC.	ACCESSIBLE / HANDICAPPED
	HDWE.	HARDWARE
	HT.	HEIGHT
	H.	HIGH/HEIGHT
	H.P.	HIGH POINT
	H.B.	HOSE BIBB
	H.M.	HOLLOW METAL
	HORIZ.	HORIZONTAL
I	INSUL.	INSULATION
	I/WH	INSTANT WATER HEATER
	INTERM.	INTERMEDIATE
J	JAN.	JANITOR
	JT.	JOINT
L	LAB	LABORATORY
	LAM.	LAMINATED
	LAV.	LAVATORY
	L.P.	LIGHT POLE/LOW POINT
M	MFR'D	MANUFACTURED
	M.F.R.	MANUFACTURER
	M.H.	MANHOLE
	m.o.	MASONRY OPENING
	MAT.	MATERIAL
	MAX.	MAXIMUM
	MTL.	METAL
	m.	METER
	MECH.	MECHANICAL
	MIN.	MINIMUM
	MIRR.	MIRROR
	MISC.	MISCELLANEOUS
	MULL.	MULLION
	M.D.C.	MIAMI-DADE COUNTY
N	N.D.	NAPKIN DISPOSAL
	N.I.C.	NOT IN CONTRACT
	N.	NORTH
	N.T.S.	NOT TO SCALE
	NO./#	NUMBER
	N.O.A.	NOTICE OF ACCEPTANCE
O	O.C.	ON CENTER
	O.D.	OUTSIDE DIMENSION
	O.S.	OVERFLOW SCUPPERS
	O.R.D.	OVERFLOW ROOF DRAIN
P	P.C.	PAINTED CONCRETE
	P.C.A.	PRODUCT CONTROL APPROVAL
	PNL.	PANEL
	PT.	PAPER TOWEL
	P. PEN	PIPE PENETRATION
	PL	PLATE PROPERTY LINE
	PLYWD.	PLYWOOD
	P.P.	POWER POLE
	P.T.	PRESSURE TREATED
R	R	RADIUS
	RWL	RAIN WATER LEADER
	REINF.	REINFORCING/REINFORCED
	REQ'D	REQUIRED
	REV.	REVERSE
	R.H.M.S.	ROUND HEAD MACHINE SCREW
	RM	ROOM
	RD	ROOF DRAIN
S	SCH.	SCHEDULE
	S.C.	SEALED CONCRETE
	SECT.	SECTION
	SH.	SHOWER
	SRT.	SHEET
	SIM.	SIMILAR
	SL.	SLOPE
	S.C. WD.	SOLID CORE WOOD
	SD.	SOAP DISH
	SPECS.	SPECIFICATIONS
	S.S.	STAINLESS STEEL
	STD.	STANDARD
	STRUCT.	STRUCTURE/STRUCTURAL
	SUSP.	SUSPENDED
T	T.C.	TENSION CABLE
	TEL.	TELEPHONE
	TEMP.	TEMPERED
	TERR.	TERRAZZO
	THR	THRESHOLD
	T.O.F.	TOP OF FOOTING
	T.P.	TOILET PAPER
	TYP.	TYPICAL
U	U.C.	UNDERCOUNTER
	U.L.	UNDERWRITER'S LABORATORY
	UNF.	UNFINISHED
	U.O.N.	UNLESS OTHERWISE NOTED
V	VTR	VENT THRU ROOF
	VERT.	VERTICAL
	VEST.	VESTIBULE
	VB.	VINYL BASE
	VCT.	VINYL COMPOSITION TILE
W	WSCT.	WAINSCOT
	WC.	WATER CLOSET
	W.	WIDE/WIDTH
	W/	WITH
	W.G.	WIRED GLASS
	WD.	WOOD
	W.S.	WORKING SCUPPER

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LIVS project number:
201913

Client project number:
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sheet title
GENERAL NOTES, LEGEND AND ABBREVIATIONS

revisions

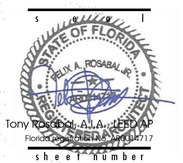
issued for:
BID SET

issue date:
05.01.23

drawn by:	approved by:
LAC	FAR

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

seal



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Florida License # AR0017717

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A0.1

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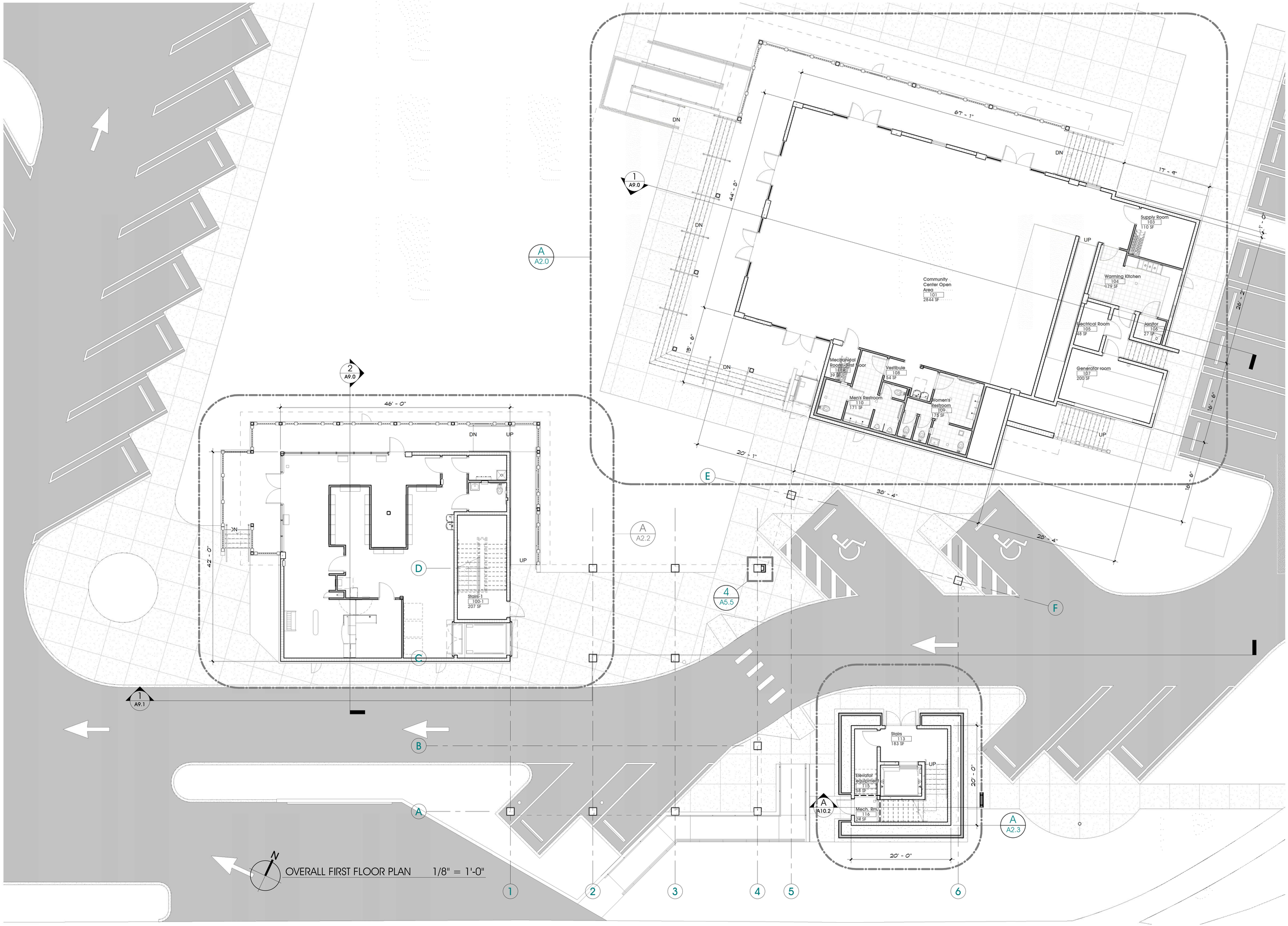

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OVERALL FIRST FLOOR PLAN

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1/8" = 1'-0"

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ELIN A. ROSABAL JR.
LICENSED ARCHITECT
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Florida License AR0014717

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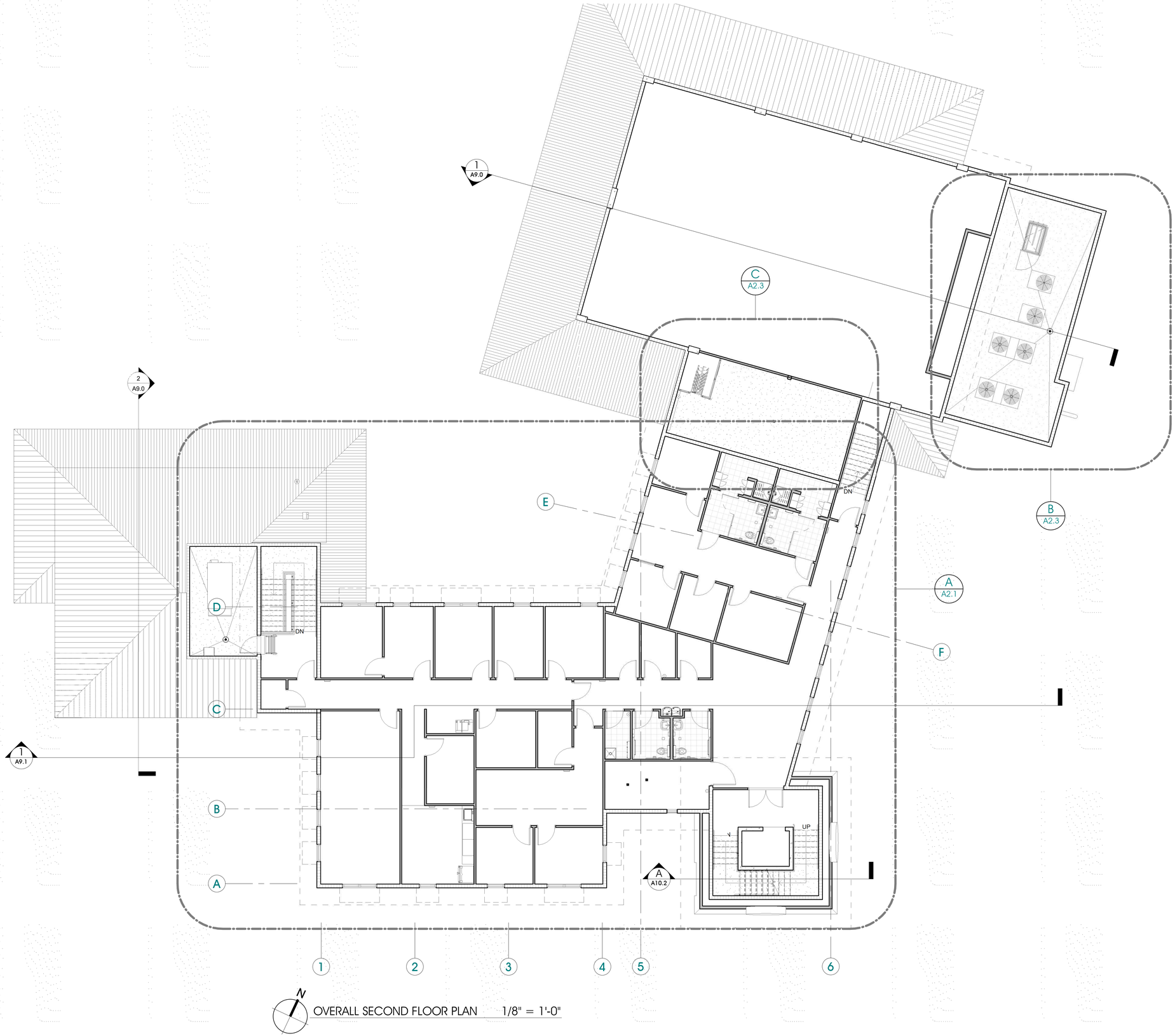

OVERALL SECOND FLOOR PLAN 1/8" = 1'-0"

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Client project number:
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OVERALL SECOND FLOOR PLAN

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LAC/MCG	FAR

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REGISTERED ARCHITECT
Tony Rosabal, A.I.A., LEED AP
Florida Certificate No. AR0017717

sheet number
A1.1

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ADA ACCESSIBLE RAMP WITH 1:12 SLOPE MAXIMUM (TYPICAL)

18"x24" LOUVERED HINGED CRAWL SPACE ACCESS STEEL DOOR WITH CYLINDER LOCK (14 GA MIN.) WITH MDC NOA. DOOR TO BE FLUSH TO FRAME. HINGE TO BE CONTINUOUS. (TYPICAL TOP OF OPENING AT 11' NGVD)

WALL MOUNTED LIGHT FIXTURE (TYPICAL)

DASHED LINE DENOTES OVERHANG ABOVE (TYPICAL)

ALUMINUM RAILING SYSTEM WITH DECORATIVE CHIPPENDALE PANEL (TYPICAL)

1 1/2" ALUMINUM HANDRAIL (TYPICAL)

MARBLE HALL MAIN FLOOR
FFE = +11.50' (NGVD)

MARBLE THRESHOLD (TYPICAL)

ALUMINUM ROOF HATCH ALTERNATING STAIR (68D) WITH OPTIONAL HANDRAILS. PROVIDE WALL BRACING AS REQUIRED BY MANUFACTURER

Community Center Open Area 101 2844 SF

Supply Room 103 116 SF

Warming Kitchen 104 179 SF

Electrical Room 105 68 SF

Janitor 106 27 SF

Generator room 107 200 SF

Mechanical Room - First Floor 111A 59 SF

Men's Restroom 110 171 SF

Vestibule 108 54 SF

Women's Restroom 109 175 SF

Stairs 232-1 77 SF

VERTICAL WHEELCHAIR LIFT

1 1/2" ALUMINUM HANDRAIL (TYPICAL)

COORDINATE WITH MANUFACTURER

ALUMINUM HANDRAIL/GUARDRAIL (TYPICAL)

6" HOUSEKEEPING PAD. EXTEND PAST EQUIPMENT 6" ON ALL SIDES (MINIMUM). VERIFY SIZE OF EQUIPMENT WITH MANUFACTURER

MARBLE HALL FLOOR PLAN - First floor 1/4" = 1'-0"

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MARBLE HALL FLOOR PLAN - First floor

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36" x 48" SECOND LAYER OF GRANULAR SBS MODIFIED CAP SHEET FOR TRAFFIC PAD WALKWAY AROUND EQUIPMENT. PROVIDE 6" GAP BETWEEN PADS TO ALLOW WATER TO FLOW. (TYPICAL)

SBS MODIFIED BITUMEN MINERAL SURFACED ROOFING SYSTEM

DASHED LINE DENOTES OVERHANG ABOVE (TYPICAL)

SHUTTERS NOT SHOWN FOR CLARITY (TYPICAL)

TUFFTEC BENCH (91/2" D X 36" L) AS MANUFACTURED BY SCRANTON PRODUCTS OR APPROVED EQUAL

WALL MOUNTED TRANSFORMER ON BRACKETS. BOTTOM AT 5'-0" A.F.F. REFER TO ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION

ROOF DRAIN (RD). REFER TO DETAIL 1/A4.2

ALUMINUM LADDER (75D) WITH HANDRAILS

COPIER (N.I.C.)

REFRIGERATOR (N.I.C.)

MARBLE THRESHOLD (TYPICAL AT RESTROOM DOORS AND JANITOR'S ROOM)

SIGNAGE (TYPICAL)

ELEVATOR

OFFICES / POLICE STATION FLOOR PLAN - Second floor 1/4" = 1'-0"

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sheet title
OFFICE / POLICE STATION FLOOR PLAN - Second floor

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1/4" = 1'-0"

seal

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Florida cert. # AR0017717

sheet number
A2.1

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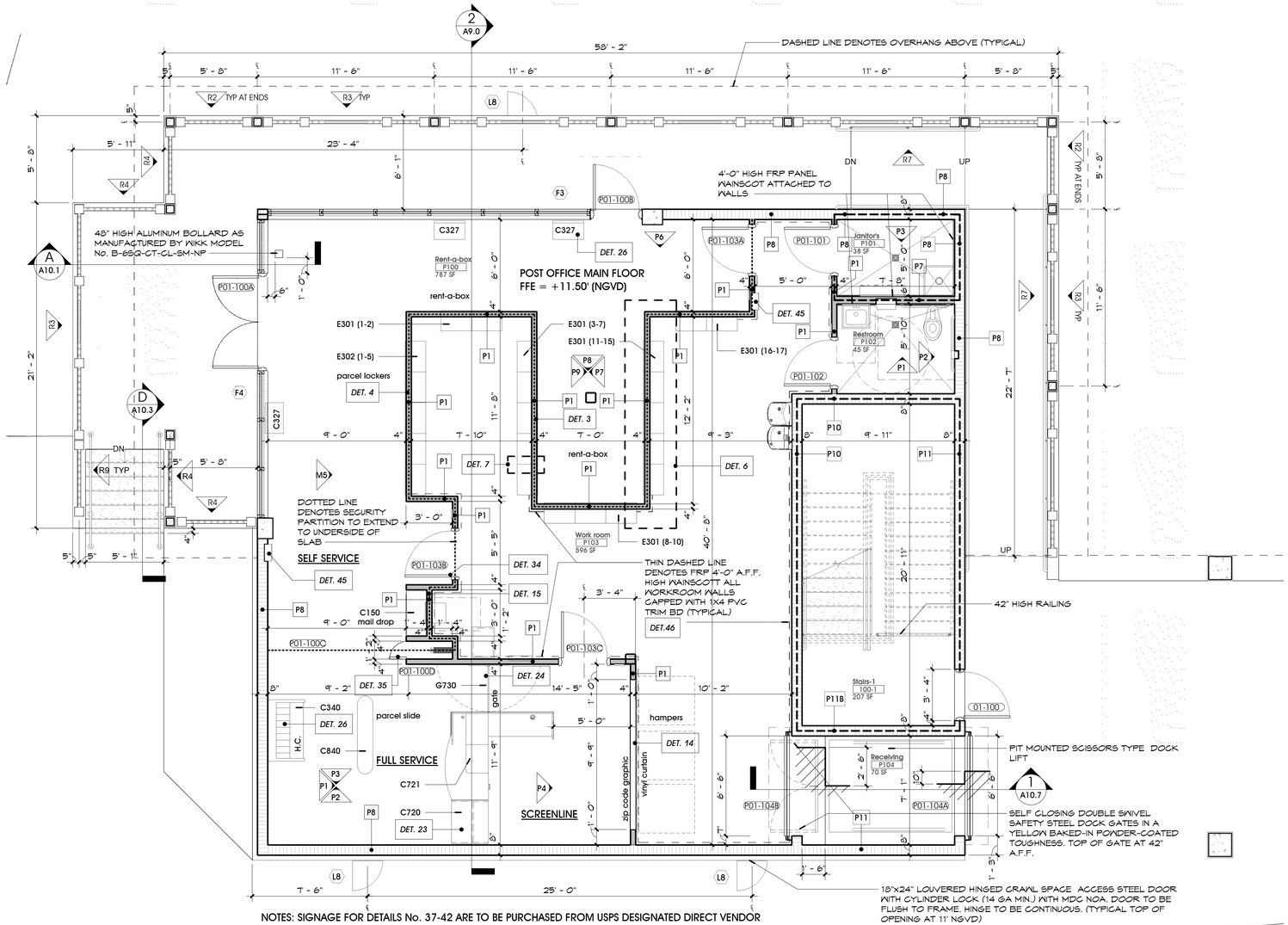

NOTES: SIGNAGE FOR DETAILS No. 37-42 ARE TO BE PURCHASED FROM USPS DESIGNATED DIRECT VENDOR

DET. 24 — REFERS TO POST OFFICE DETAILS SHOWN ON SHEETS A14.0 - A14.2

POST OFFICE FLOOR PLAN - First floor 1/4" = 1'-0"

NOTES:
UNITED STATES POSTAL SERICE (USPS) SHALL FURNISH AND INSTALL:

1. Painting of all interior walls
2. Floor tile where designated
3. Sliding grill closure (to Landlord's structural steel plate)
4. PO box equipment **
5. Letter drop box (wall framing & gyp board by Landlord)
6. Wicket door and frame (other standard doors by Landlord)
7. Interior Eagle and Zip Code graphics
8. Interior signs
9. Exterior sign mounted on exterior wall
10. Exterior Facility ID sign on exterior wall
11. Vinyl Hours on glass window or door
12. IT Wall rack and equipment on plywood backboard as demark
13. All of data system (conduit in walls by Landlord)
14. Data cabling supported by hangars above ceiling
15. Service counters
16. Other USPS casework
17. Locksmith to change cylinders on locks (after USPS building acceptance)

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sheet title
POST OFFICE FLOOR PLAN - First floor

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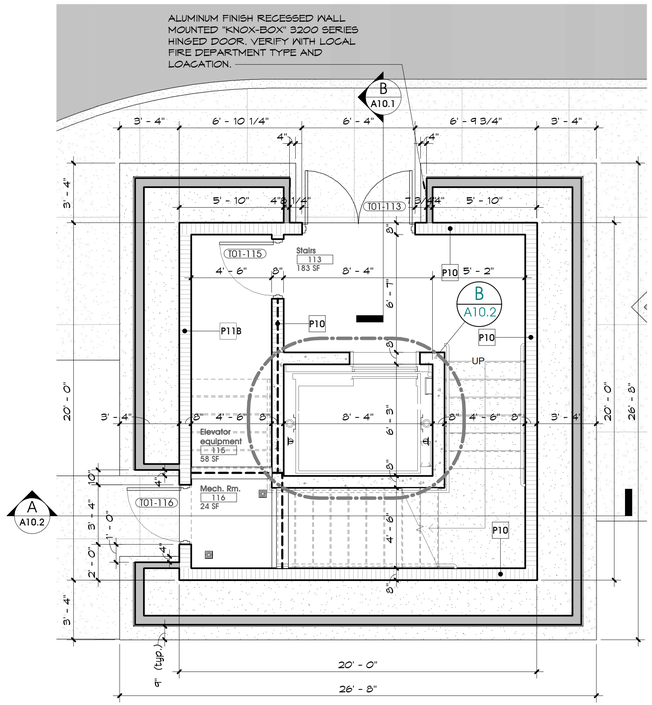
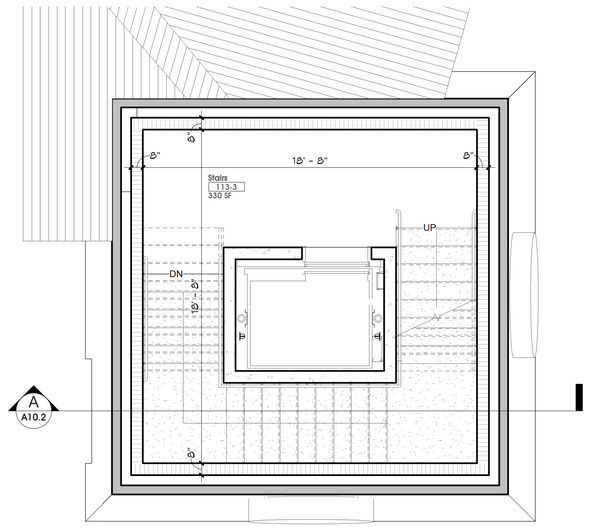
sheet number
A2.2

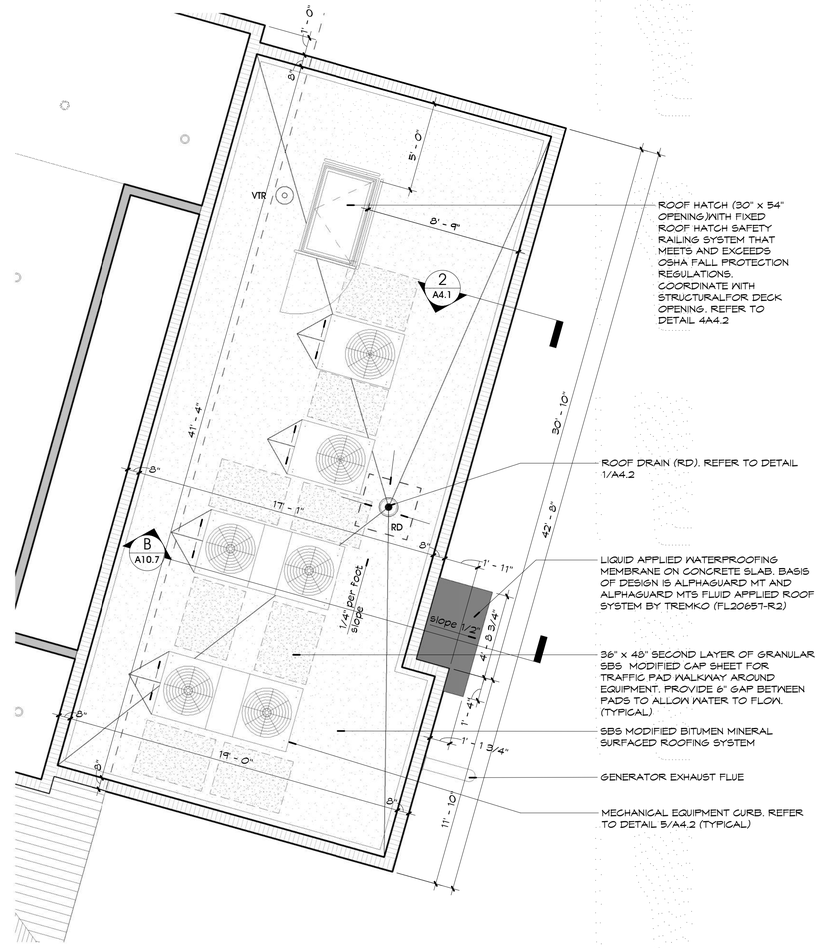
sheet:
of



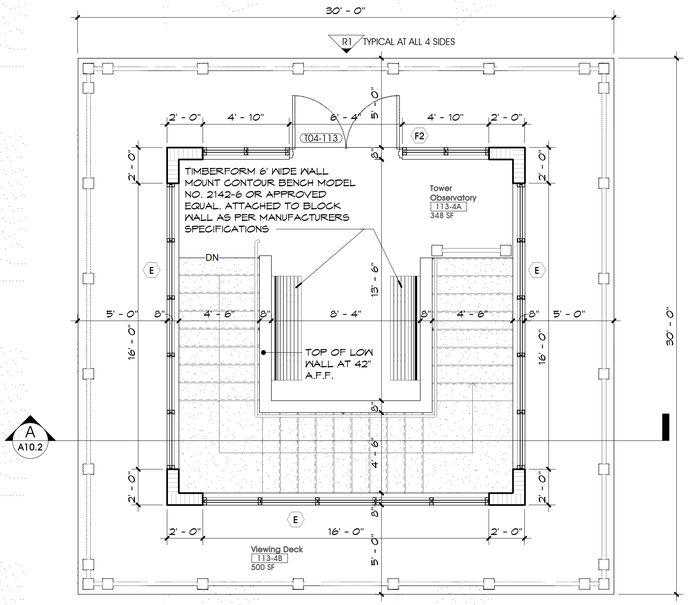
TOWER FLOOR PLAN - First Level 1/4" = 1'-0"



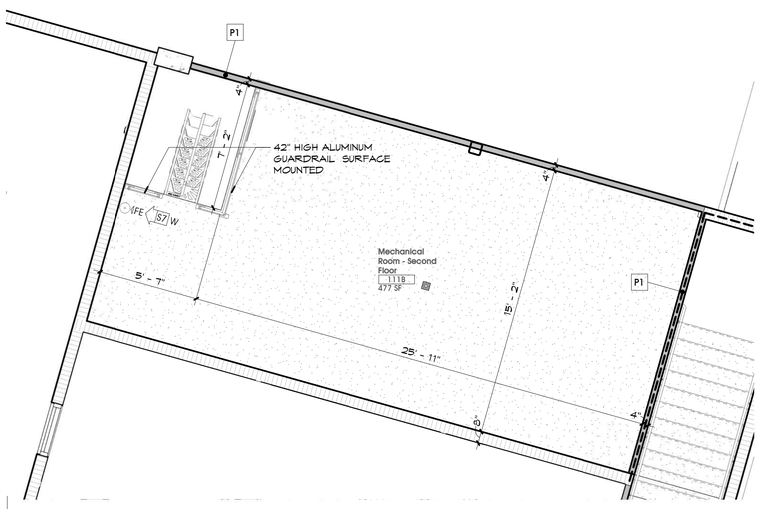
TOWER FLOOR PLAN - Mid Level 1/4" = 1'-0"



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



TOWER FLOOR PLAN - Top Level 1/4" = 1'-0"



5 MECHANICAL ROOM PLAN - Second floor 1/4" = 1'-0"

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sheet title
PARTIAL FLOOR PLANS

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LAC	FAR

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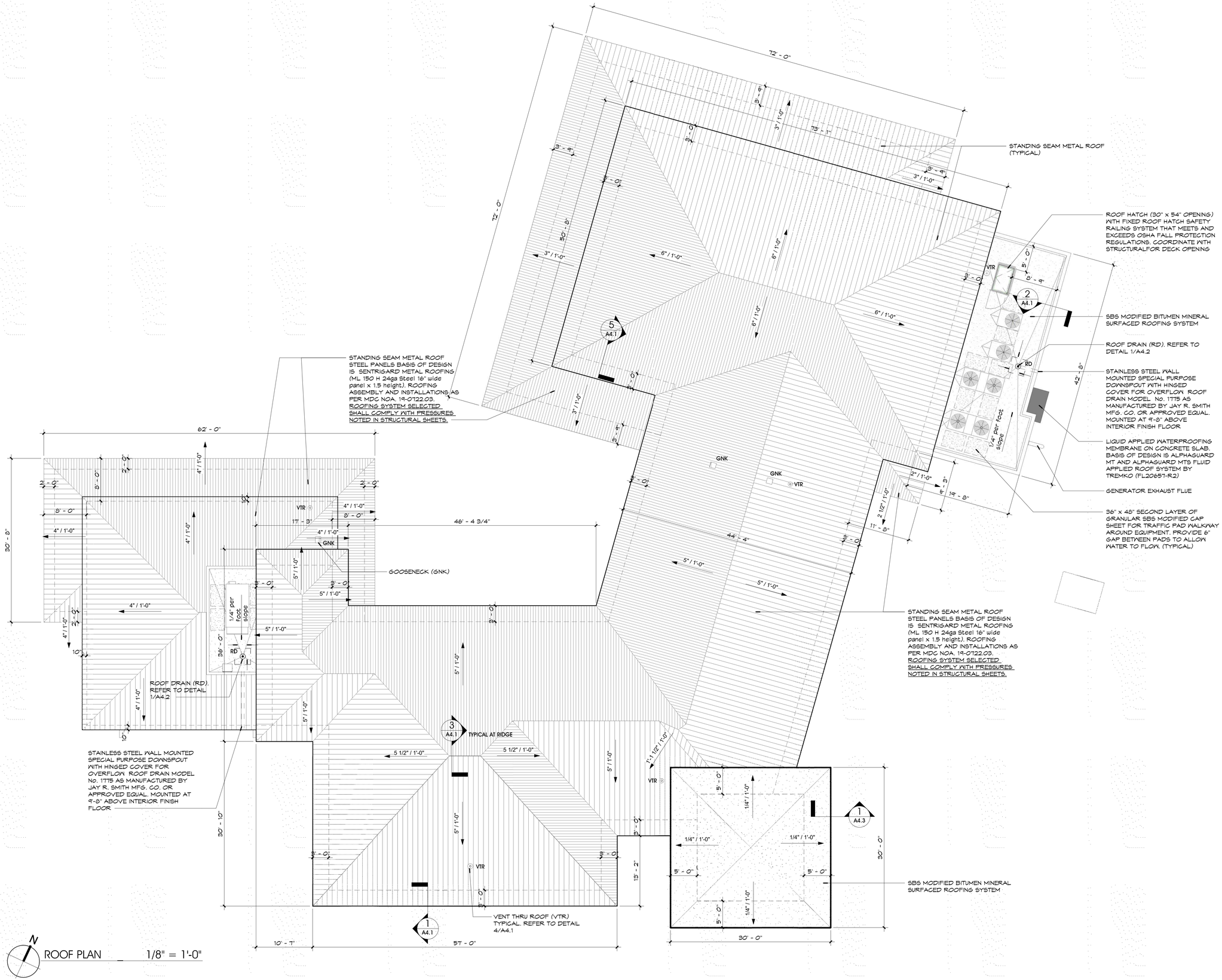
sheet number
A2.3

sheet:
of



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

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ROOF PLAN

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A4.0

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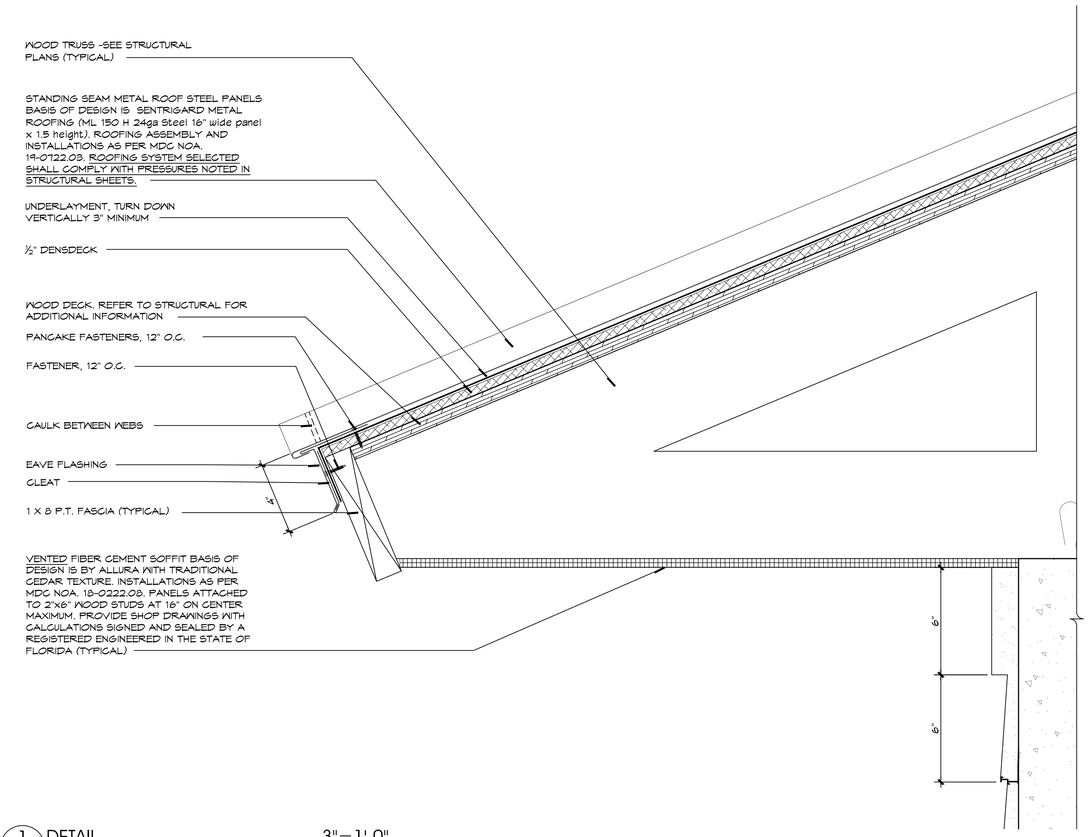
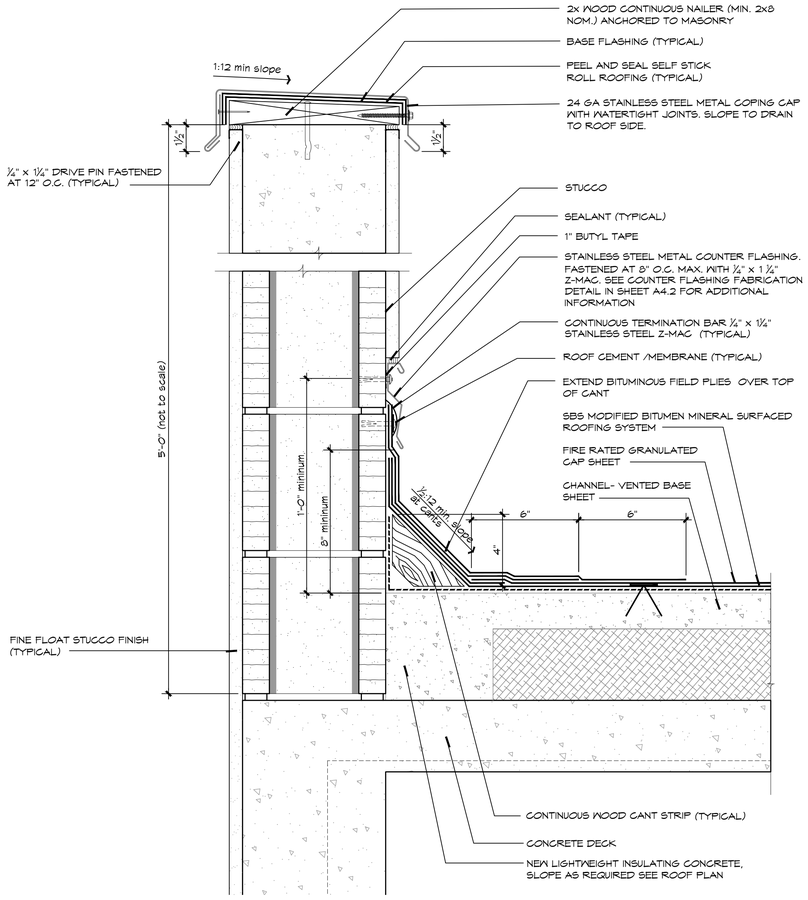
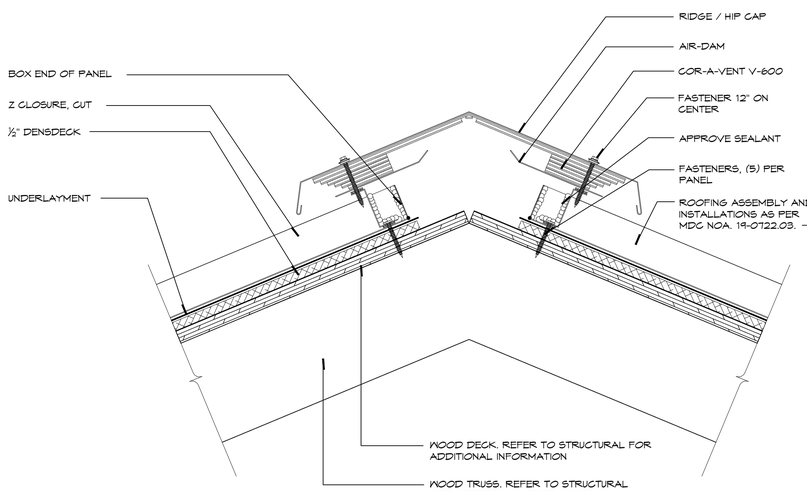


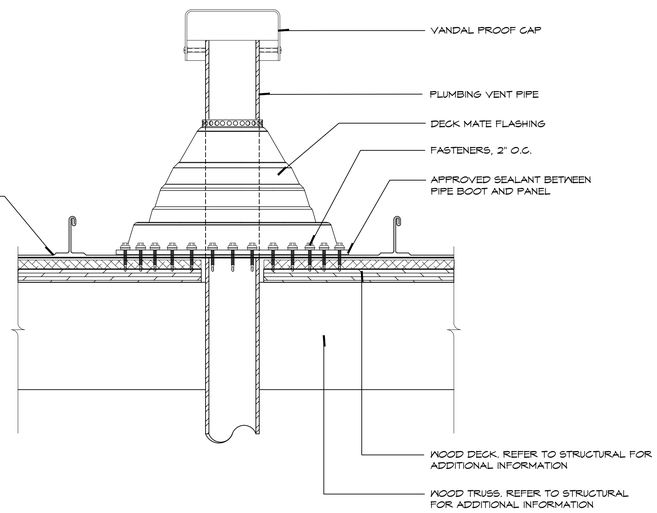
1 A4.1 DETAIL 3"=1'-0"
TYPICAL EDGE CONDITION AT STANDING SEAM MEAL ROOF



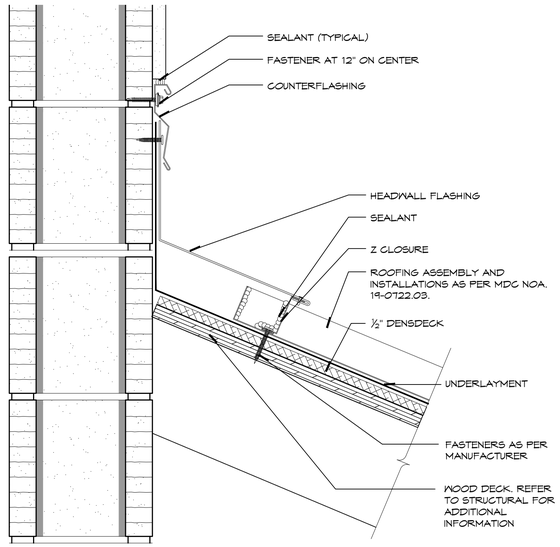
2 A4.1 DETAIL 3"=1'-0"



3 A4.1 DETAIL 3"=1'-0"
TYPICAL AT RIDGE OF STANDING SEAM METAL ROOF



4 A4.1 DETAIL 3"=1'-0"
TYPICAL VENT TRU ROOF CONDITION AT METAL ROOF MEETS WALL



5 A4.1 DETAIL 3"=1'-0"
TYPICAL CONDITION WHERE STANDING SEAM METAL ROOF MEETS WALL

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JELYN A. ROSABAL JR.
LICENSED ARCHITECT
Tony Rosabal, A.I.A., LEED AP
Florida License AR 0017717

sheet number
A4.1

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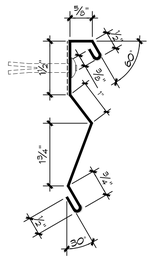
of

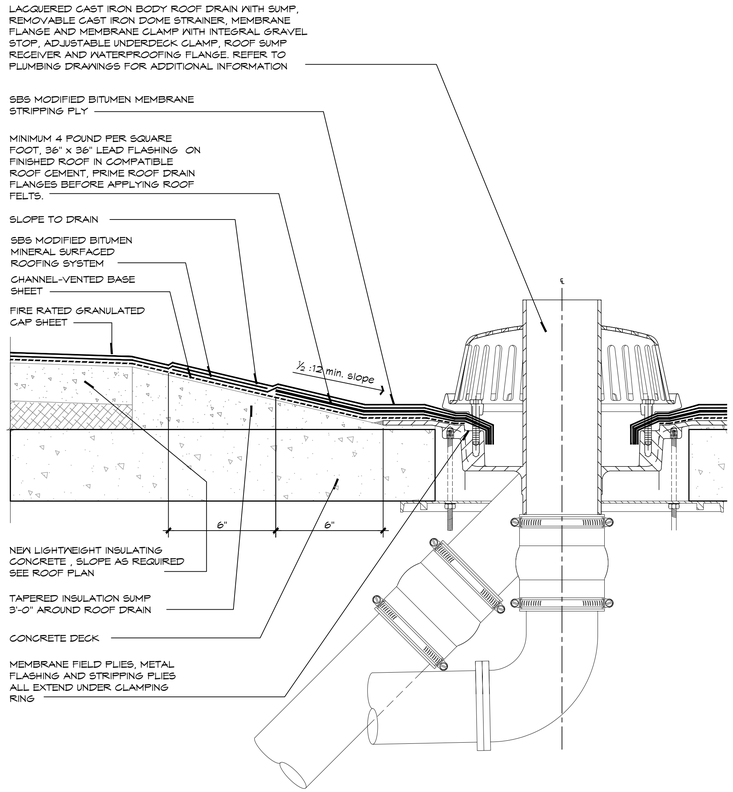


NOTES:

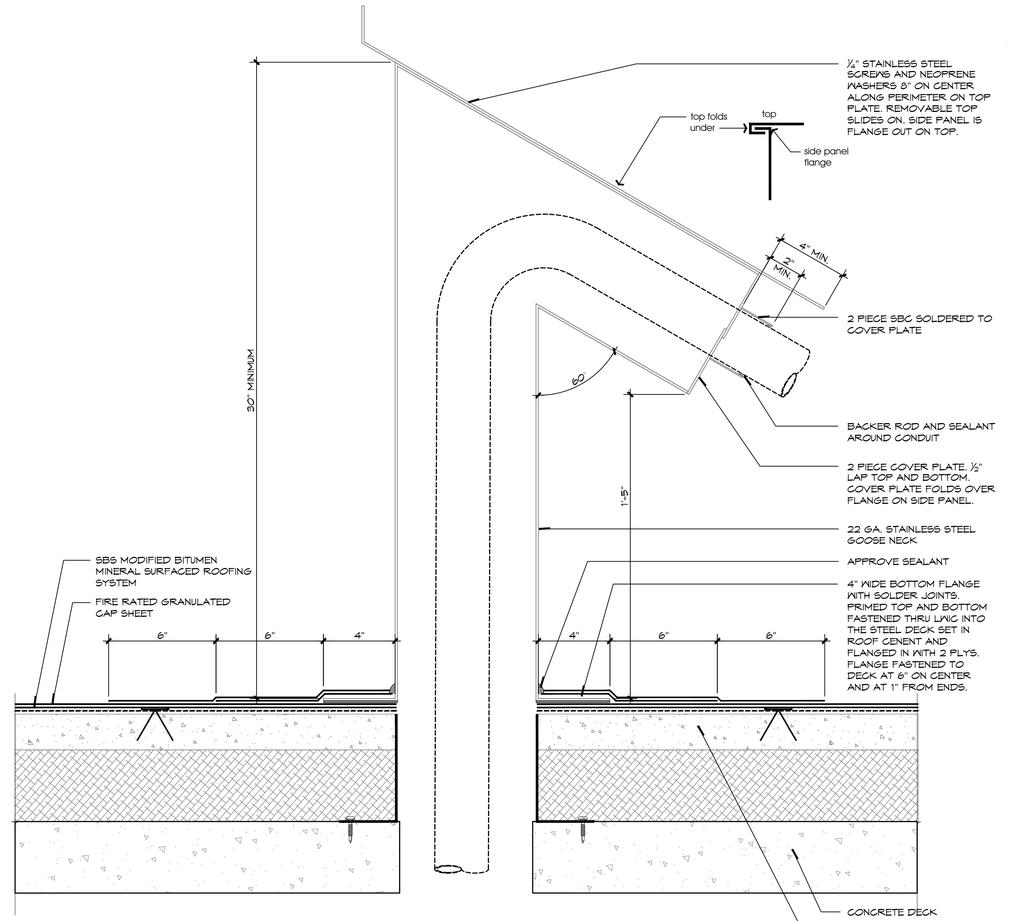
SOLDER LAPS AND CORNER INSERTS TO FORM ONE CONTINUOUS PIECE AT CORNERS AND TRANSITIONS

FASTENED AT 8" O.C. MAX. WITH ¼" x 1 ¼" Z-MAC.

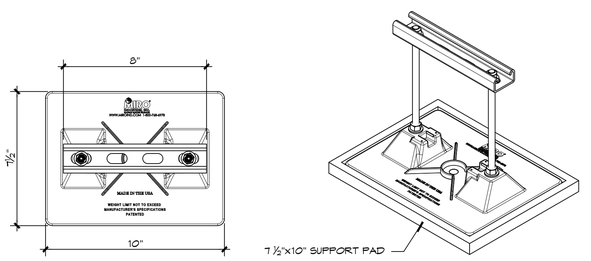
COUNTER FLASHING FABRICATION N.T.S.



1 A4.2 DETAIL - BIFUNCTIONAL DUAL DRAIN OUTLET 3"=1'-0"



3 A4.2 DETAIL 3"=1'-0"



ACCESSORIES

- Strut Clamp - Order to Pipe O.D.
- 7½" x 10" Support pad
- Eternabond® 2-sided tape

PRODUCT DESCRIPTION

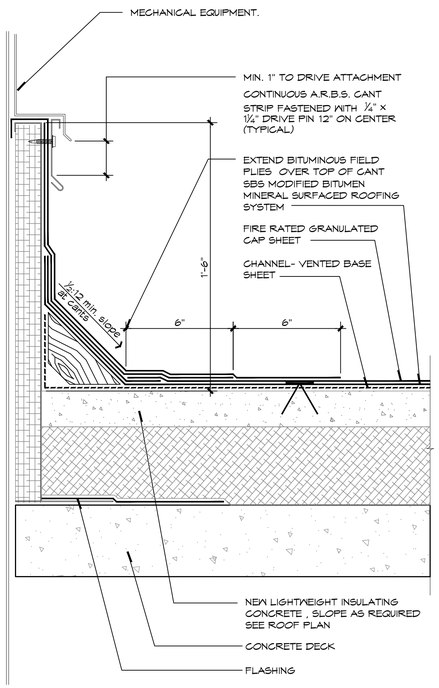
A pipe support with "strut" used to support roof-mounted electrical conduit, solar piping, gas pipes and other mechanical piping. Pipes rest on a 8" length of strut which is mounted on the base. The pipes can be fastened by using the appropriate pipe clamp.

KEY INFORMATION

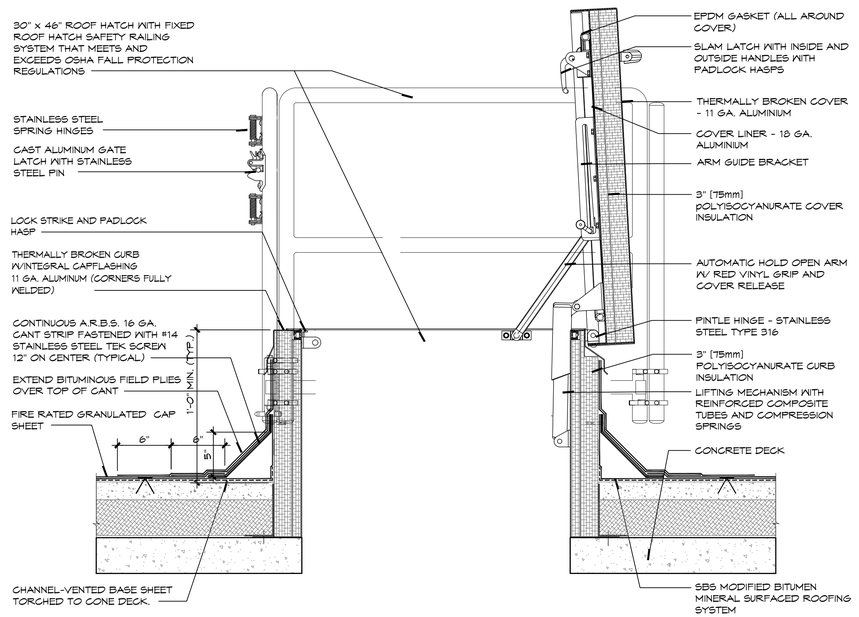
- Designed to support conduit (ganged) cable trays or other mechanical piping.
- Adjustable from the factory set maximum height of 8-7/8" down to a minimum height of 3-1/2"
- Maximum load is 172 lbs. (3.0 psi) Make certain each support is properly elevated to evenly distribute weight at all support locations.
- Unit Weight: 2.33 lbs.
- 12 per case, 26 lbs. per case, (DW= 29 lbs.)
- Recommended spacing is not to exceed 10' centers depending upon the load.
- Base Material: Stainless steel
- All metal parts are either stainless steel or hot-dip galvanized.

2 A4.2 DETAIL 3"=1'-0"

BASIS OF DESIGN IS MIRO INDUSTRIES, INC. MODEL 8-BASE STRUT-8



5 A4.2 MECHANICAL EQUIPMENT CURB 3"=1'-0"



4 A4.2 ROOF HATCH 3"=1'-0"

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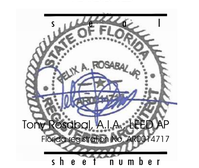

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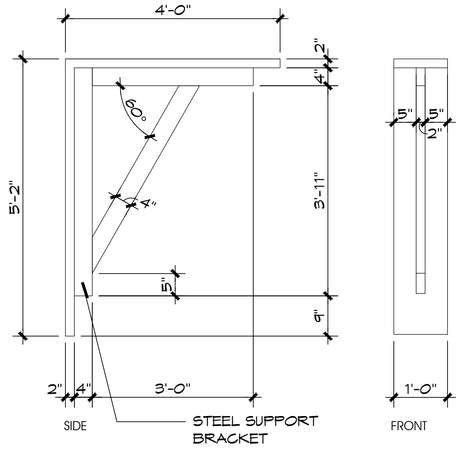
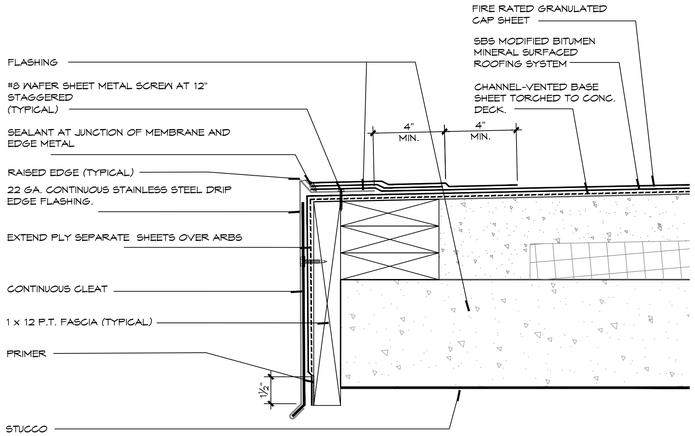
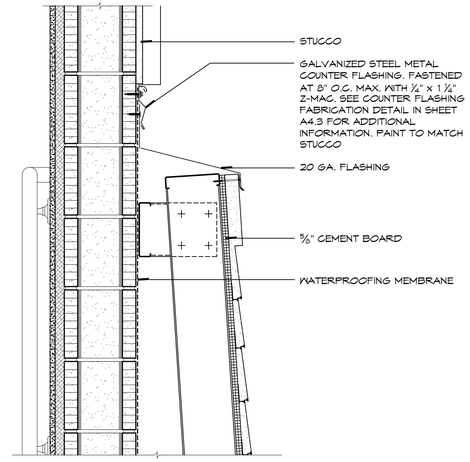


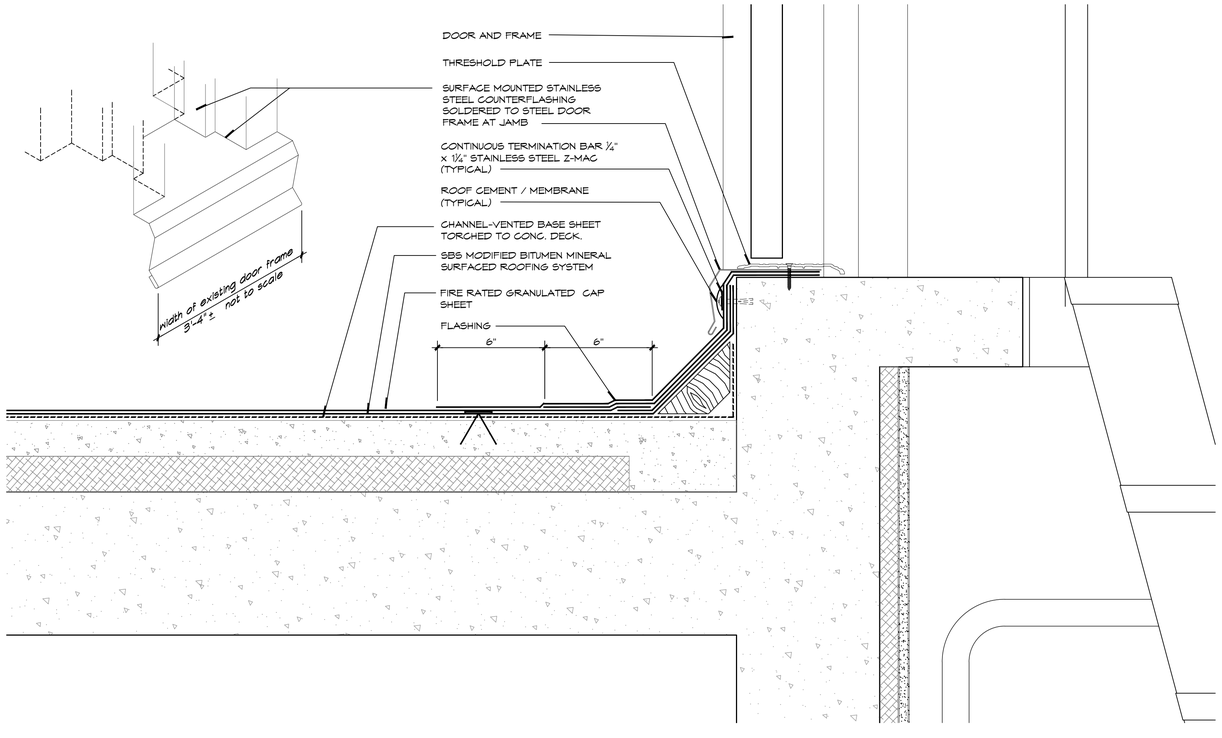
STEEL SUPPORT BRACKET DETAIL 3/4"=1'-0"



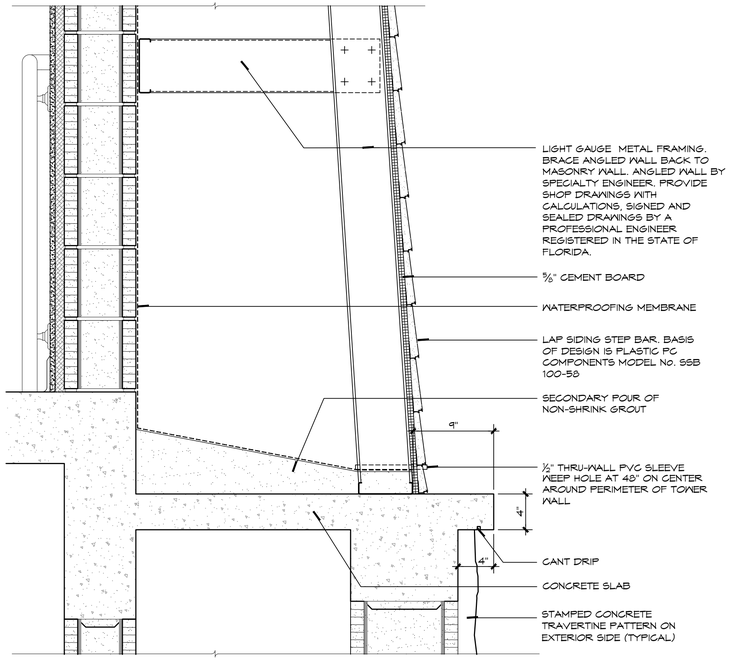
1 A4.3 DETAIL 3"=1'-0"
EDGE CONDITION AT TOWER ROOF



2 A4.3 DETAIL 1 1/2"=1'-0"



4 A4.3 DETAIL 3"=1'-0"



3 A4.3 DETAIL 1 1/2"=1'-0"

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Florida Registered Architect #14717

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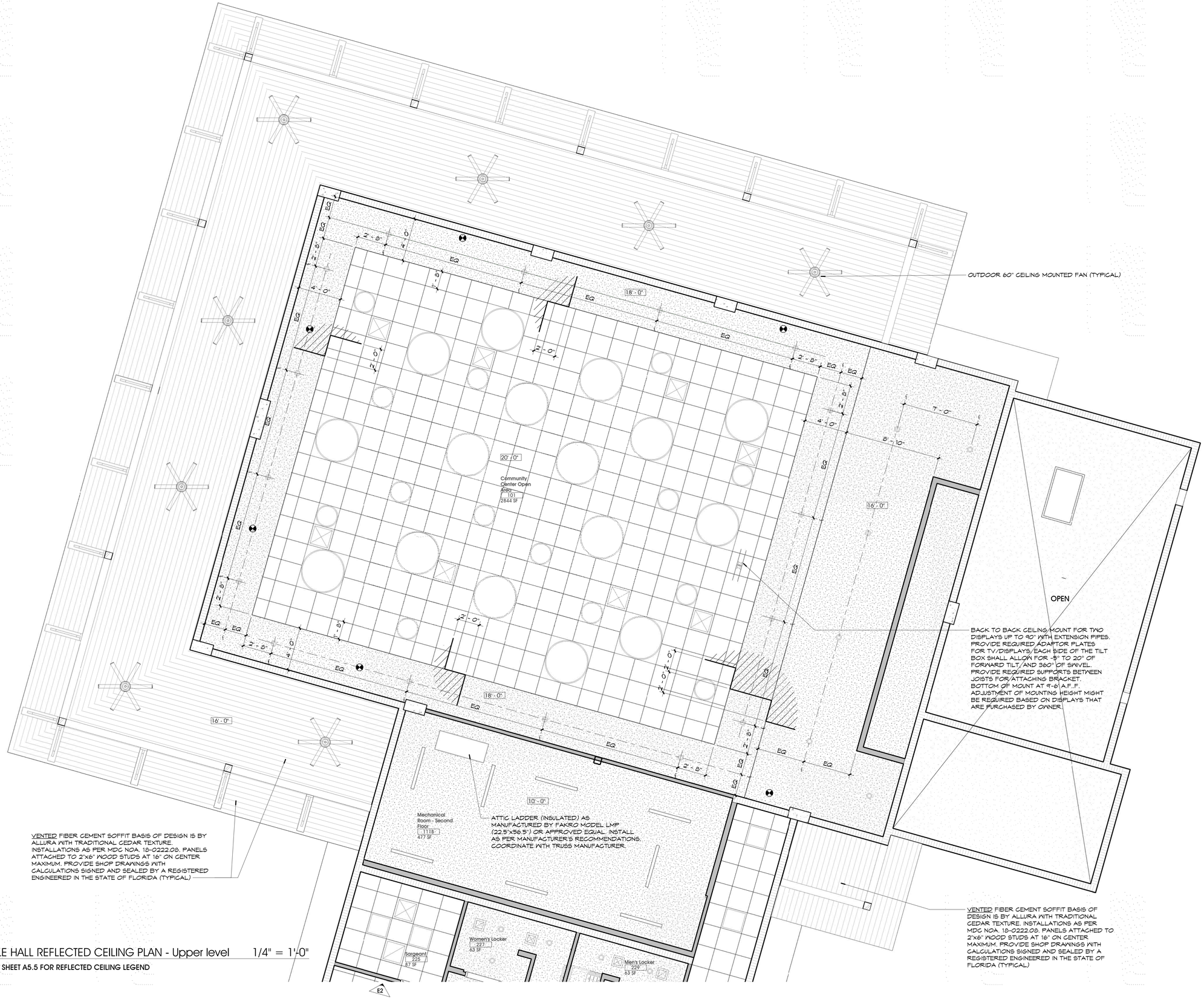

N

MARBLE HALL REFLECTED CEILING PLAN - Upper level 1/4" = 1'-0"

REFER TO SHEET A5.5 FOR REFLECTED CEILING LEGEND

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MARBLE HALL
REFLECTED CEILING
PLAN - Upper level

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LICENSED ARCHITECT

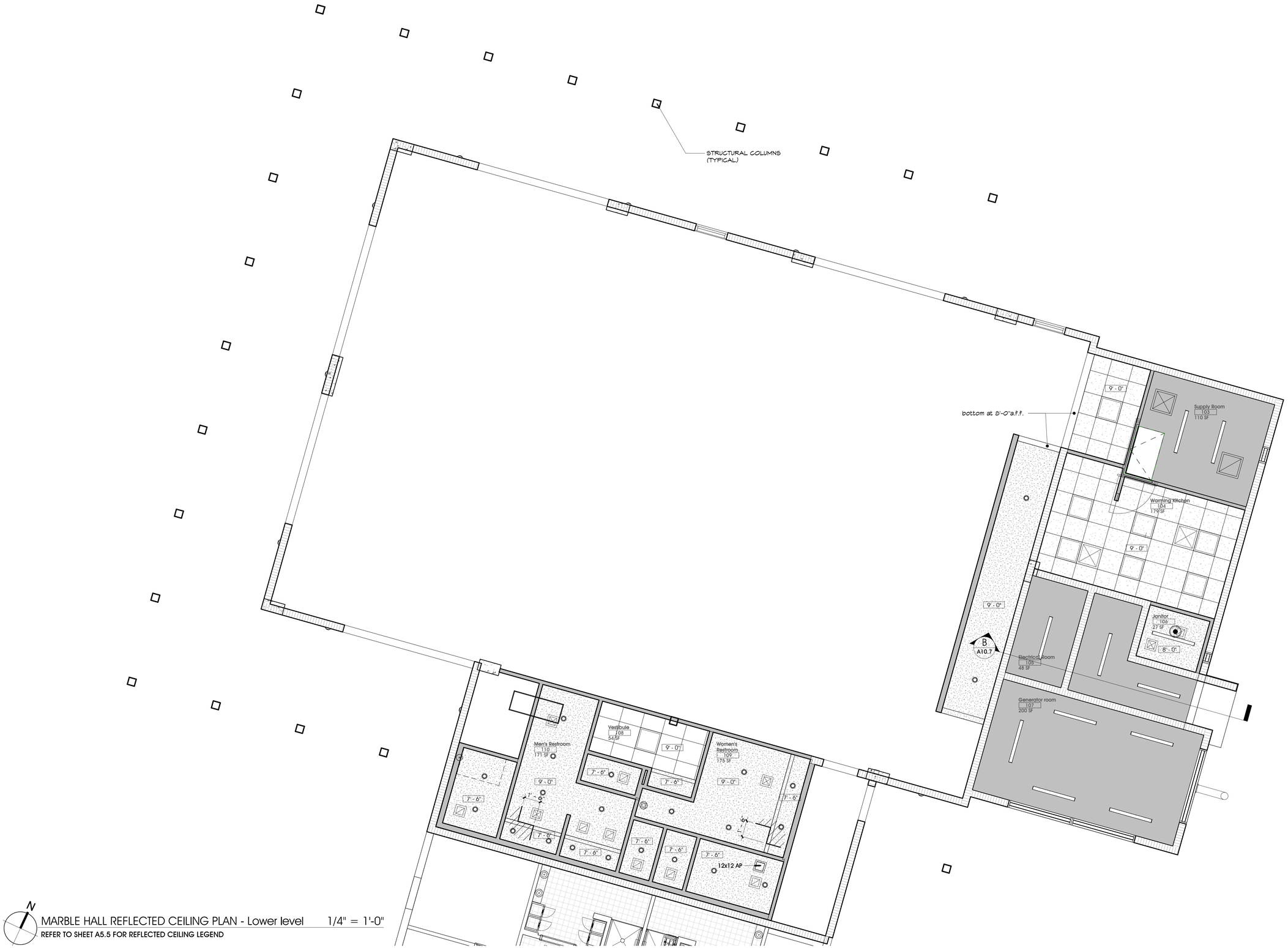
Tony Rosabal, A.I.A., LEED AP
Florida License # AR0017717

sheet number

A5.0

sheet:

of



MARBLE HALL REFLECTED CEILING PLAN - Lower level 1/4" = 1'-0"

REFER TO SHEET A5.5 FOR REFLECTED CEILING LEGEND

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MARBLE HALL REFLECTED CEILING PLAN - Lower level

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Florida Reg. No. 0014717

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of



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

REFER TO SHEET A5.5 FOR REFLECTED CEILING LEGEND

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REFLECTED CEILING PLAN - Second floor

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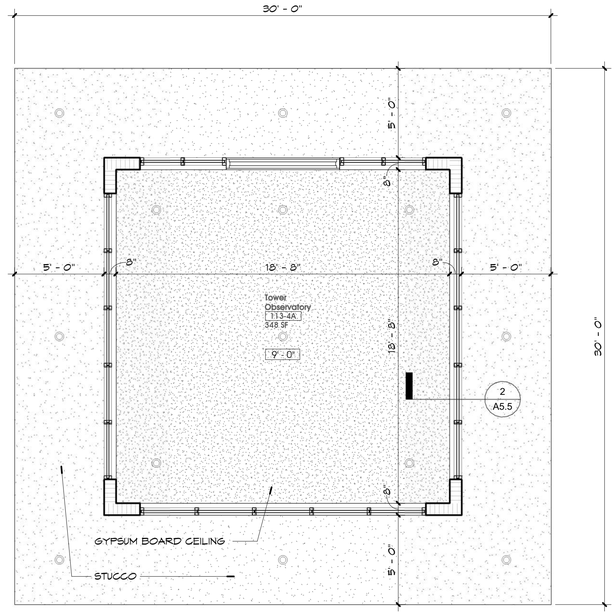

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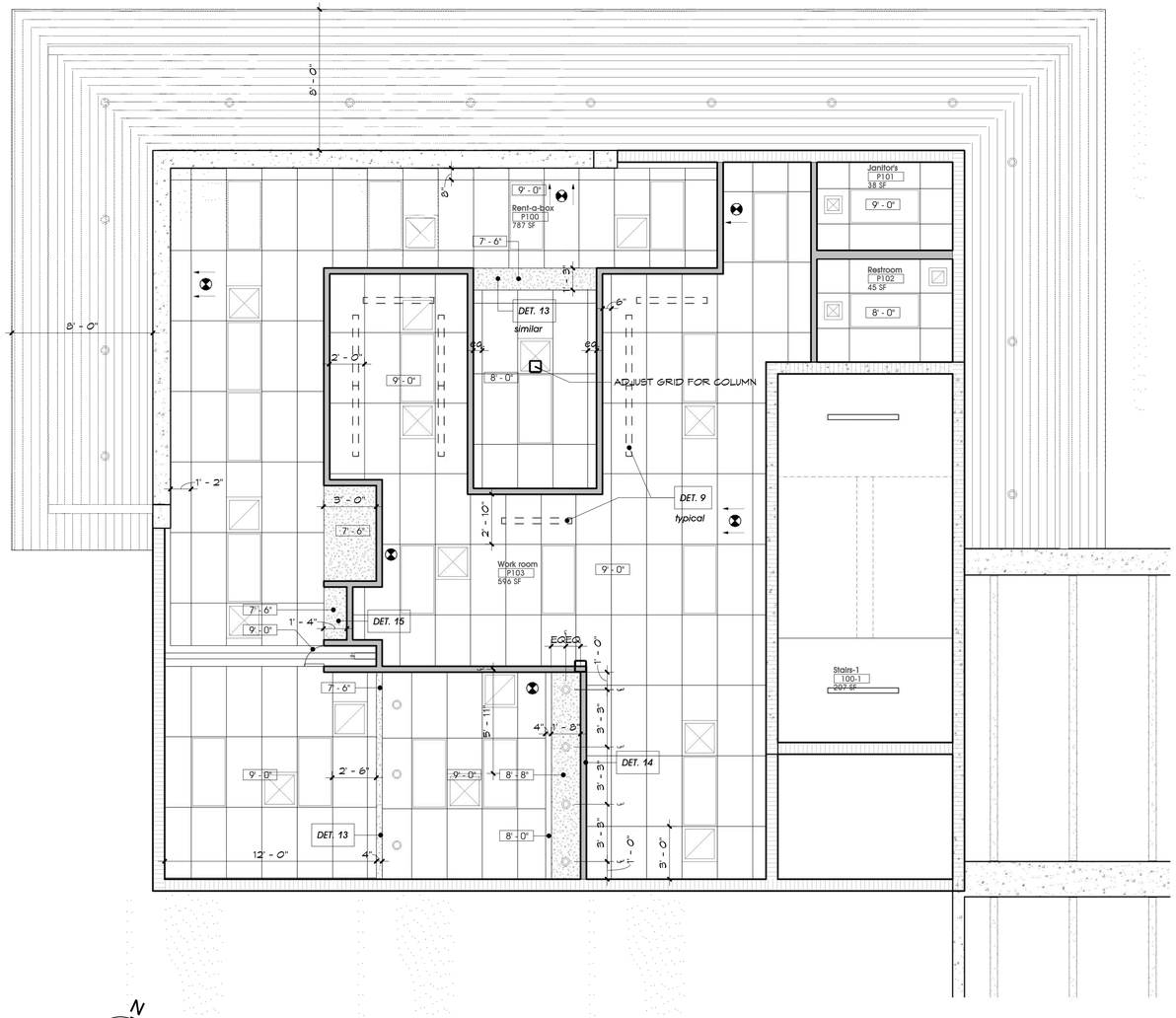
TOWER TOP LEVEL REFLECTED CEILING PLAN 1/4" = 1'-0"

REFER TO SHEET A5.5 FOR REFLECTED CEILING LEGEND



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

REFER TO SHEET A5.5 FOR REFLECTED CEILING LEGEND

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ARCHITECT

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Florida certificate # AR0017717

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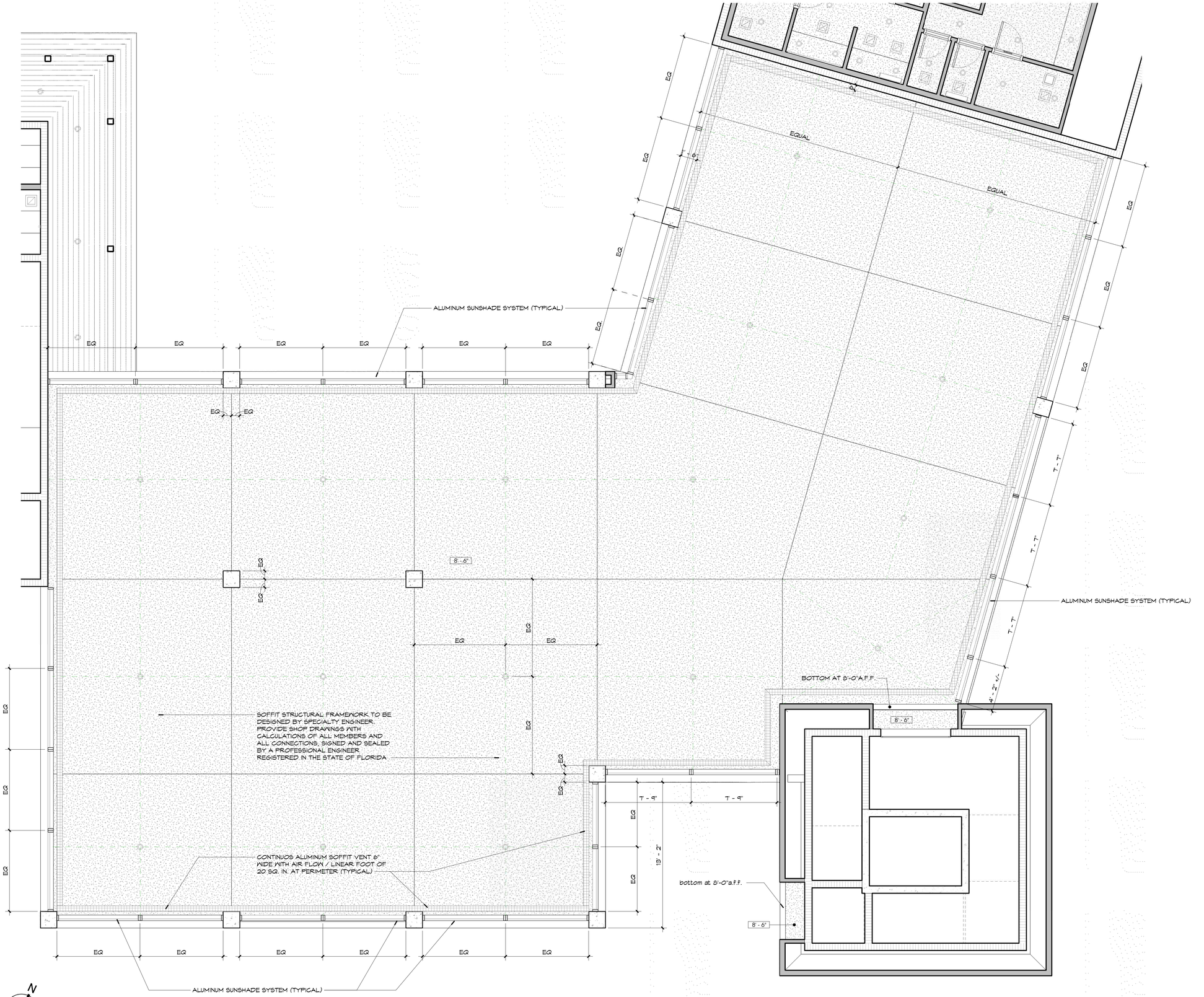

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PARKING REFLECTED CEILING PLAN 1/4" = 1'-0"

REFER TO SHEET A5.5 FOR REFLECTED CEILING LEGEND

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COVERED PARKING REFLECTED CEILING PLAN

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Tony Rosabal, A.I.A., LEED AP
Florida License #AR0014717

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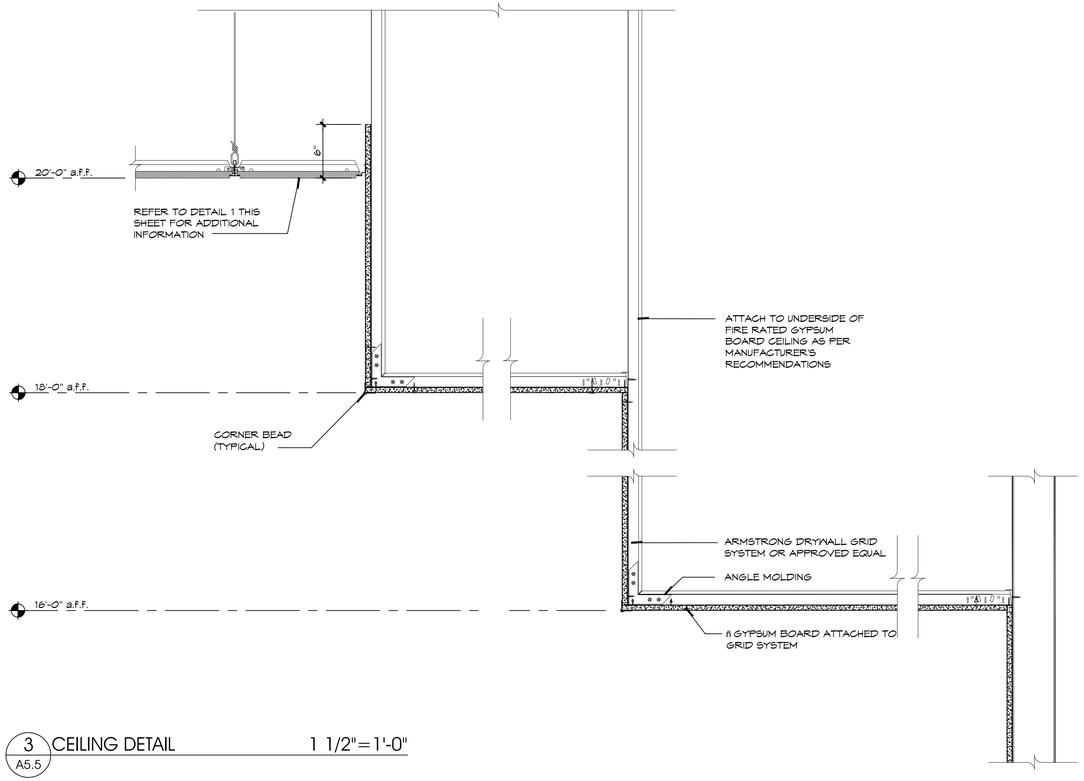
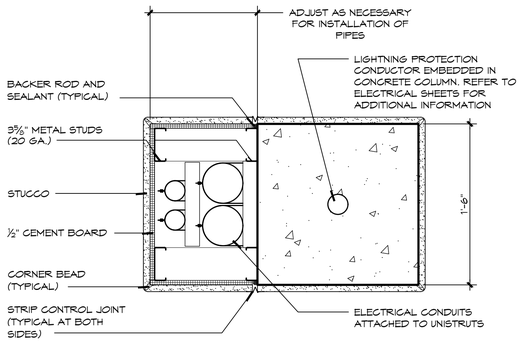
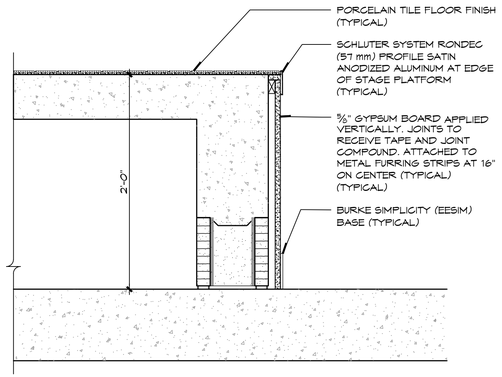


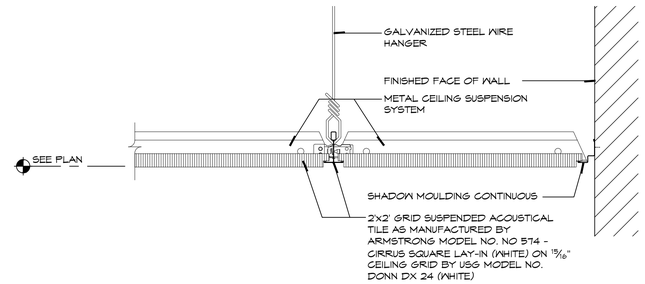
3 A5.5 CEILING DETAIL 1 1/2"=1'-0"



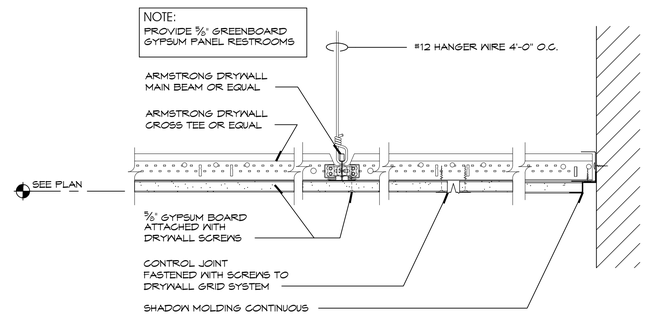
4 A5.5 CHASE DETAIL 1 1/2"=1'-0"



5 A5.5 STAGE EDGE DETAIL 1 1/2"=1'-0"



1 A5.5 CEILING DETAIL 3"=1'-0"
Typical at office areas



2 A5.5 CEILING DETAIL 3"=1'-0"
Typical at restrooms

REFLECTED CEILING LEGEND

- 2'x2' GRID SUSPENDED ACOUSTICAL SUSPENSION SYSTEM, CENTER GRID IN ROOM AS SHOWN IN PLANS UNLESS NOTED OTHERWISE.
- SUSPENDED GYPSUM BOARD CEILING AND/OR SOFFIT, SEE FINISH SCHEDULE
- 2'x4' RECESSED LIGHT FIXTURE SEE ELECTRICAL DRAWINGS
- 1'x4' SURFACE MOUNTED OR PENDANT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR TYPE
- 2'x2' RECESSED LIGHT FIXTURE SEE ELECTRICAL DRAWINGS
- RECESSED OR SURFACE MOUNTED DOWNLIGHT, SEE ELECTRICAL DRAWINGS
- EMERGENCY EXIT LIGHT WITH DIRECTIONAL ARROW, SEE ELECTRICAL DRAWINGS.
- CEILING DIFFUSER, SEE MECHANICAL DRAWINGS.
- RETURN AIR OR EXHAUST AIR GRILLE, SEE MECHANICAL DRAWINGS.
- 12x12 AP — ACCESS PANEL FOR RECESSED DRYWALL SURFACES USE AS MANUFACTURED BY ACUDOR MODEL NO. DW-5015 OR APPROVED EQUAL. COORDINATE LOCATION WITH PLUMBING DRAWINGS FOR VALVE ACCESS
- SHADING DENOTES LIGHT FIXTURES CONNECTED TO EMERGENCY LIGHTING - SEE ELECTRICAL DRAWINGS.
- H D — CEILING MOUNTED DETECTORS - SEE ELECTRICAL DRAWINGS
- S — CEILING MOUNTED SPEAKERS
- MS — CEILING MOUNTED MOTION SENSOR - SEE ELECTRICAL DRAWINGS

NOTE:

1. PROVIDE HANGING WIRES FOR SUSPENDED ACOUSTICAL CEILING AT 4'-0" O.C. AND AT CORNERS OF EACH DROP-IN LIGHT FIXTURE.
2. SUSPENDED ACOUSTICAL CEILING SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF ASTM C635 (TYPICAL).
3. CENTER GRID IN ROOM EXCEPT AS NOTED IN PLANS.
4. DO NOT PLACE THERMAL BLANKETS INSULATION WITHIN 3 INCHES OF THE RECESSED LIGHTING FIXTURE ENCLOSURES, WIRING COMPARTMENTS OR BALLASTS UNLESS THOSE FIXTURES ARE IDENTIFIED FOR SUCH CONTACT WITH INSULATION.

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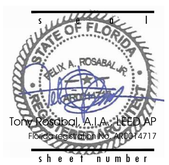

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RFT-2 RICKETT, 24"x24"x0.080" THICK, 8804

BASE

VB-1 STANDARD 4" WALL BASE, BLACK

EPOXY FLOOR AND WALL COATING

LIGHT GRAY

PAINT (SEE NOTE 1)

P2 (LIGHT GRAY) GLIDDEN (ICI): #50BG 62/007
P4 (RED) PMS 485 C "POSTAL RED"
P5 (BLUE) PMS 301 C "POSTAL BLUE"

PLASTIC LAMINATE

PL-2 FORMICA #839-58 "STOP RED"

SOLID SURFACING

S1 SAMSUNG STARON "SOLID BRIGHT WHITE"

FIBERGLASS REINFORCED PLASTIC PANELS

FRP STRUCTOGLAS FRP 1207 GRAY OR EQUAL

THE FOLLOWING ITEMS ARE NOT IN CONTRACT

USPS RESPONSIBILITIES

CONSTRUCTION –IN GENERAL, FINISHES IN FULL SERVICE LOBBY, SELF SERVICE LOBBY, PO BOX LOBBY AND WORKROOM.
FURNISH AND INSTALL:

1. PAINTING OF ALL INTERIOR WALLS
2. FLOOR TILE WHERE DESIGNATED
3. SLIDING GRILL CLOSURE (TO LANDLORD'S STRUCTURAL STEEL PLATE)
4. PO BOX EQUIPMENT **
5. LETTER DROP BOX (WALL FRAMING & GYP BOARD BY LANDLORD)
6. WICKET DOOR AND FRAME (OTHER STANDARD DOORS BY LANDLORD)
7. INTERIOR EAGLE AND ZIP CODE GRAPHICS
8. INTERIOR SIGNS
9. EXTERIOR SIGN MOUNTED ON EXTERIOR WALL
10. EXTERIOR FACILITY ID SIGN ON EXTERIOR WALL
11. VINYL HOURS ON GLASS WINDOW OR DOOR
12. IT WALL RACK AND EQUIPMENT ON PLYWOOD BACKBOARD AS DEMARK
13. ALL OF DATA SYSTEM (CONDUIT IN WALLS BY LANDLORD)
14. DATA CABLING SUPPORTED BY HANGARS ABOVE CEILING
15. SERVICE COUNTERS
16. OTHER USPS CASEWORK
17. LOCKSMITH TO CHANGE CYLINDERS ON LOCKS (AFTER USPS BUILDING ACCEPTANCE)

FINISH SCHEDULE

ROOM	ROOM NAME	FLOOR							BASE						WALL						CEILING						REMARKS
		Vinyl Composite Tile	Ceramic Tile	Porcelain Tile	Luxury Vinyl Tile	Epoxy	Concrete Sealer	Color Code	Vinyl Base	Ceramic Tile Base	Porcelain Base	Epoxy Base	No Base	Color Code	Paint	Ceramic Tiles	Porcelain	Exposed Masonry	Gypsum Board	Color Code	Suspended Acoustical	Plaster	Paint	Exposed	Gypsum Board	Color Code	
100-1	Stairs-1						o						o		o			o						o	o		
100-2	Stairs						o						o		o			o							o		
101	Community Center Open Area			o					o						o						o		o		o		
103	Supply Room	o							o						o								o	o			
104	Warming Kitchen		o						o	o					o						o						
105	Electrical Room						o						o											o			
106	Janitor		o							o					o	o			o						o		
107	Generator room						o						o					o						o			
108	Vestibule			o					o						o						o						
109	Women's Restroom			o							o						o						o		o		
110	Men's Restroom			o							o						o						o		o		
111A	Mechanical Room - First Floor						o						o					o						o			
111B	Mechanical Room - Second Floor						o		o						o								o		o		
113	Stairs				o				o										o			o	o				
113-2	Stairs	o							o						o							o					
113-3	Stairs				o				o						o							o	o				
113-4A	Tower Observatory	o							o						o				o			o	o				
113-4B	Viewing Deck						o																				
114	Elevator																										
115	Elevator equipment						o						o		o									o			
116	Mech. Rm.						o						o		o								o				
200	City Administrator	o							o						o						o						
201	Executive Assistant	o							o						o						o						
203	City Clerk	o							o						o						o						
204	Assistant City Clerk	o							o						o						o						
205	Utility Clerk	o							o						o						o						
206	Conference Room / EOC				o				o						o						o						
207	Break Room	o							o						o						o						
208	Copier	o							o						o						o						
209	Building Department	o							o						o						o						
209A	Plan Storage	o							o						o						o						
209B	Electrical room	o							o						o								o		o		
210	Secure Storage	o							o						o						o						
211	Code	o							o						o						o						
212	Building Inspector	o							o						o						o						
213	Building Official	o							o						o						o						
214	Mechanical Room						o						o		o								o		o		
215	IT Room /	o							o						o						o						NOTE 12
217	Janitor's		o							o					o	o							o		o		
218	Men's Restroom		o							o						o							o		o		
219	Women's Restroom		o							o						o							o		o		
220	Lobby				o				o						o				o		o	o			o		
221	Chief of Police	o							o						o						o						
222	Secure / Evidence/ Weapon's room	o							o						o						o						
223	Interview room	o							o						o						o						
224	Duty Officers	o							o						o						o						
225	Sargeant	o							o						o						o						
226	Women's Restroom		o							o						o									o		
227	Women's Locker		o							o						o									o		
228	Men's Restroom		o							o						o									o		
229	Men's Locker		o							o						o									o		
230	Corridor A				o				o						o						o						
231	Corridor B				o				o						o						o						
232-1	Stairs	o							o						o						o						
232-2	Stairs	o							o						o						o						
233	Telephone room						o		o						o									o			
234	Supplies	o							o						o						o						
P100	Rent-a-box						o		o						o						o						
P101	Janitor's						o		o						o						o						
P102	Restroom					o						o			o						o						
P103	Work room						o		o						o						o		o		o		
P104	Receiving						o						o					o						o			

Grand total: 62

FINISH NOTES

1. FLOORING, AS SCHEDULED FOR EACH ROOM SHALL EXTEND FULLY INTO ALL SURROUNDINGS ALCOVES, VESTIBULES, ETC. TERMINATE TILE AT THE CENTER OF DOORS WHEN IN THE CLOSED POSITION. TERMINATE EDGE MOLDINGS AT TERMINATIONS. (TYPICAL FOR ALL) RESILIENT BASE SHALL BE 4" HIGH COVE .

2. EXPOSED CONCRETE SURFACES SHALL BE FLUSH AND LEVEL AND PROVIDED WITH A SEALER. SMOOTH TROWEL FINISH AT ALL INTERIOR AREAS. SEALER SHALL BE AS NOTED ON SPECS. (A 2-COAT APPLICATION SIM. TO DAYTON SUPERIOR SAFE CURE AND SEAL (J.18). EXPOSED MASONRY WALLS SHALL HAVE A BLOCK SEALER.

3. CERAMIC FLOOR TILE SHALL BE INSTALLED USING DRY SET MORTAR OR PORTLAND CEMENT. TCNA METHOD AS NOTED IN SPECIFICATIONS FOR FLOOR TILE. PROVIDE (½" HIGH MAXIMUM) MARBLE THRESHOLD AT TILE TERMINATION.

4. CERAMIC WALL TILE. SHALL EXTEND FULL HEIGHT OF WALLS UNLESS NOTED OTHERWISE. PROVIDE ALL NECESSARY TRIM INCLUDING COVE BASE. WITH INTERNAL AND EXTERNAL CORNERS AND BULLNOSE EDGE. CERAMIC WALL TILE SHALL BE INSTALLED USING DRY SET MORTAR OR LATEX PORTLAND CEMENT MORTAR OVER TILE BACKER BOARD, TCA METHOD AS NOTED IN SPECS. METAL STUDS AT LOCATIONS WHERE CERAMIC TILE WALL FINISH IS SCHEDULED SHALL BE 20 GAUGE, 16-INCHES ON CENTER, MAXIMUM SPACING. START WHERE FULL TILE CREATES AN OUTSIDE CORNER CONDITION CUT TILE ON ANGLE TO FORM NEAT, CLEAN, AND ALIGNED MATERIALS FORM SMOOTH, CONSISTENT FINISHED EDGES AND CORNERS THROUGHOUT - NO JAGGED PIECES. KEEP ALL JOINTS AS MINIMAL AS POSSIBLE

5. PROVIDE AND INSTALL TILE WALL CORNER TRIM QUABEC SQUARE SHAPED PROFILE AS MANUFACTURED BY SCHLUTER WITH BRUSHED STAINLESS STEEL. USE AT ALL PORCELAIN TILE WALLS WHERE TILE CREATES AN OUTSIDE CORNER CONDITION. THE METAL PROFILE IS SECURED WITH THE TILE ASSEMBLY FOR A FLUSH TILE ABUTMENT.

6. ALL PLASTER, STUCCO, GYPSUM BOARD, EXPOSED METAL AND ALL OTHER SURFACES NOT FACTORY FINISHED SHALL BE PAINTED. STANDARD LEVEL 4 FINISH

7. SEE REFLECTED CEILING PLANS FOR CEILING TYPES AND LAYOUT.

8. VINYL BASE COLOR TO MATCH WALL PAINT UNLESS OTHERWISE SPECIFIED IN THE FINISH SCHEDULE.

9. INTERIOR WALL, CEILING, AND FLOOR FINISHES SHALL BE CLASS B FOR EXITS AND EXIT PASSAGEWAYS AND CLASS C FOR CORRIDORS, ROOMS AND ENCLOSED SPACES

10. BATT INSULATION R-20 SHALL BE INSTALLED THROUGH OUT ABOVE FIRE RATED GYPSUM CEILING. FIRE RATED GYPSUM CEILING SHALL BE INSTALLED TO UNDERSIDE OF WOOD JOIST. THIS OCCURS EVERYWHERE AT FACILITY. REFER TO SECTIONS ON SHEETS A10.0 - A10.7

11. UNDERSIDE OF STAIRS SHALL RECEIVE A VENEER PLASTER COAT UNLESS A CEILING IS CALLOUT..

12. INSTALL IN I.T. ROOM 215 STATIC DISSIPATIVE VCT TILE.

13. FOR VINYL COMPOSITE TILE (VCT) FLOORING PRIMERS AND RUBBER TRANSITION AND EDGE STRIPS: PER MANUFACTURER'S INSTRUCTIONS, GENTLY TAPERED PROFILE, AT LEAST 2 IN. WIDE, MATCHING RESILIENT SHEET FLOORING THICKNESS. COLOR AS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD COLORS. PROVIDE UNITS OF MAXIMUM LENGTH TO MINIMIZE NUMBER OF JOINTS. LEVELING COMPOUND: POLYMER-FORTIFIED CEMENTITIOUS COMPOUND WITH LOW VOC AND AS RECOMMENDED BY FLOORING MANUFACTURER. FLOORING ADHESIVE: WATERPROOF, ANTIMICROBIAL, NON-TOXIC, LOW-VOC, AS WILL PERMIT REPAIR OR REMOVAL OF FLOORING WITHOUT DESTROYING SHEETS, AS RECOMMENDED BY FLOORING PRODUCER. PERFORM CONCRETE MOISTURE TESTS AND ALKALINITY PH TESTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ASTM STANDARDS REFERENCED IN THIS DOCUMENT. CONDUCT MOISTURE TESTS ON ALL CONCRETE FLOORS REGARDLESS OF THEIR AGE, GRADE LEVEL OR THE PRESENCE OF EXISTING FLOORING. INSTALLATION OF THE VCT FLOORING SHALL COMMENCE ONLY AFTER ALL TEST RESULTS INDICATE THAT CONDITIONS OF THE SUBSTRATE COMPLY WITH MANUFACTURER'S INSTRUCTIONS.

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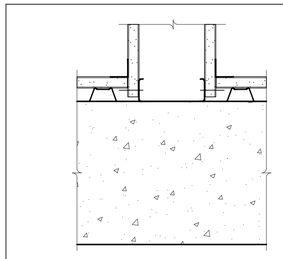
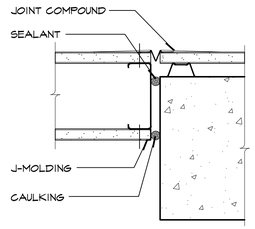
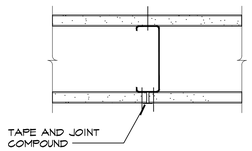


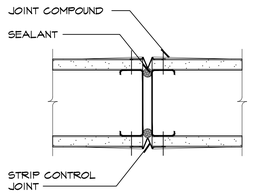
PARTITION TO MASONRY INTERSECTION



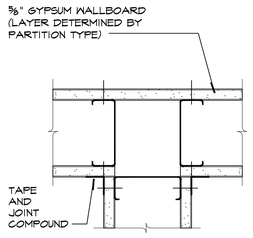
JOINT WHERE WALL FRAMING CHANGES



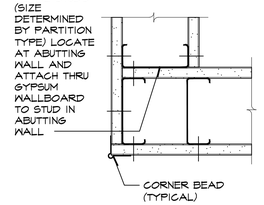
BUTT JOINT DETAIL



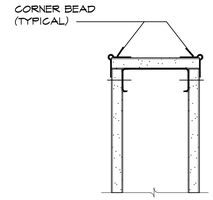
WALL CONTROL JOINT



PARTITION INTERSECTION

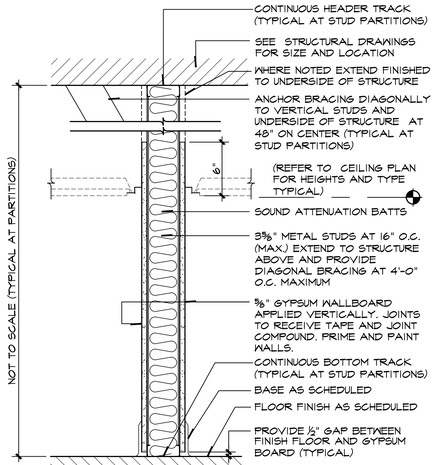


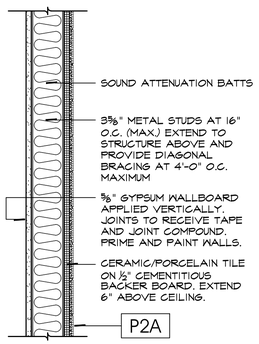
CORNER DETAIL

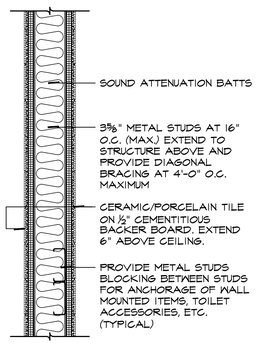


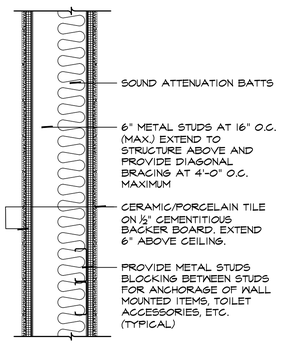
PARTITION END DETAIL

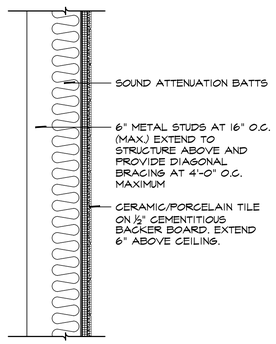
PARTITION DETAILS 3"=1'-0"

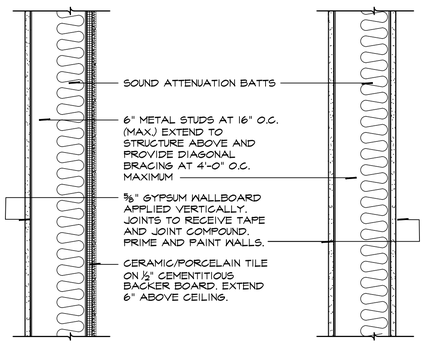




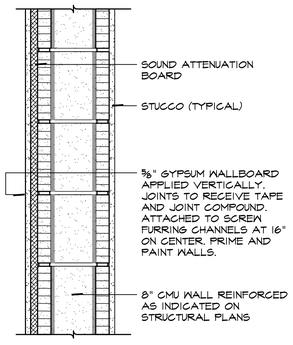




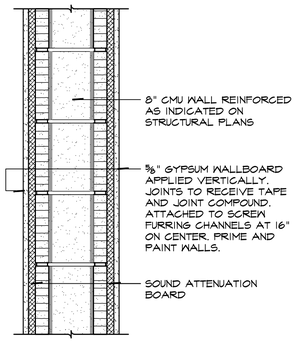




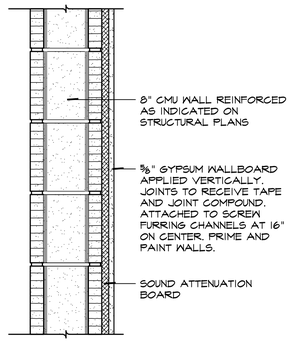
P1 NOTE: GYPSUM WALLBOARD NOT REQUIRED AT CHASE SIDE OF PARTITIONS.



P2 P2A NOTE: AT JANITORS ROOM SIDE PROVIDE TILE 4'-6" HIGH A.F.F. WAINSCOT



P3 P3A NOTE: USE 6" METAL STUDS. AT JANITORS ROOM SIDE PROVIDE TILE 4'-6" HIGH A.F.F. WAINSCOT



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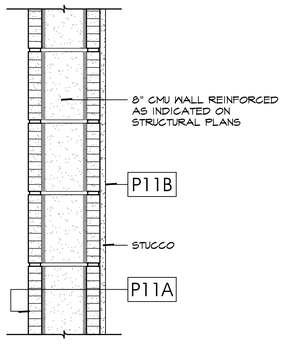

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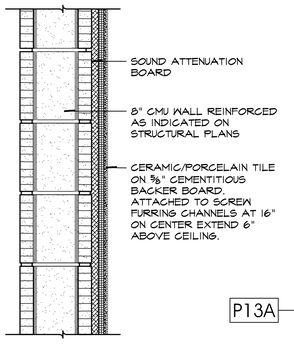

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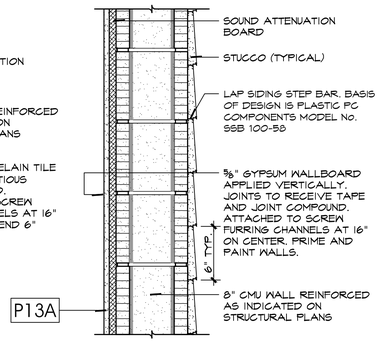

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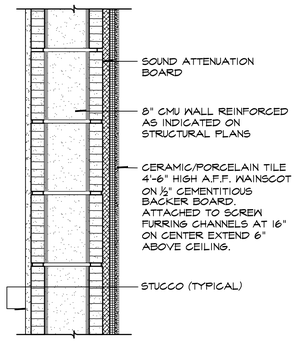


P8 P9 P10 P11

P11A NOTE: PROVIDE STUCCO P11B NOTE: NO STUCCO

P12 P13

P13A NOTE: GYPSUM WALLBOARD NOT REQUIRED AT INTERIOR SIDE OF WALL.

P14

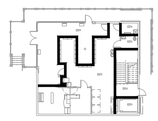
PARTITION TYPES 1 1/2"=1'-0"

NOTES:

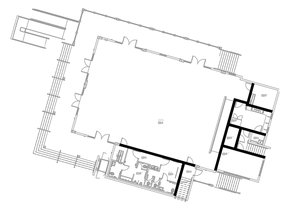
1. ALL EXTERIOR WALLS AND PARTITIONS NEXT TO SPACES NOT AIR CONDITIONED SHALL HAVE INSULATION WITH AN R VALUE NO LESS THAN 11
2. PARTITIONS EXTENDING TO UNDERSIDE OF STRUCTURE SHALL BE CONSTRUCTED WITH 20 GAGE METAL STUDS AT 16" ON CENTER.
3. COORDINATE WITH FURNITURE MANUFACTURER FOR REQUIRED ADDITIONAL METAL STUDS AT WALLS FOR WALL MOUNTED FURNITURE ITEMS (20 GA. MIN.)
4. STEEL STUDS SUPPORTING WALL HUNG PLUMBING FIXTURES SHALL BE DOUBLED OR NOT LESS THAN 20 GAUGE WITH A MINIMUM EFFECTIVE MOMENT OF INERTIA EQUAL TO 0.864 IN.4 (360 M4). SUCH STUDS SHALL BE RIGIDLY CONNECTED TOP AND BOTTOM TO PREVENT SIGNIFICANT END ROTATION OR DISPLACEMENT. A HORIZONTAL MEMBER SECURELY FASTENED TO NOT LESS THAN TWO STUDS SHALL BE INSTALLED FOR THE ATTACHMENT OF EACH WALL HUNG PLUMBING FIXTURE. PROVIDE DIAGONAL BRACING AT 4'-0" O.C. MAXIMUM TO STRUCTURE ABOVE.
5. PARTITIONS TO RECEIVE CEMENT BOARD SHALL BE 20 GAGE (MIN.)
6. PARTITIONS NOT EXTENDING TO UNDERSIDE OF STRUCTURE SHALL BE CONSTRUCTED WITH 25 GAUGE METAL STUDS AT 16" ON CENTER UNLESS NOTED OTHERWISE AND EXCEPT IN THE POST OFFICE.
7. CASE OF CEMENTITIOUS BACKER BOARD HERE 20 GAUGE AT 16" ON CENTER OR WHEN MANUFACTURER CALLS FOR SPECIFIC GAUGE SHALL BE USED.
8. AT FIRE RATED WALLS, ADHERE TO THE FOLLOWING UL WALL CLASSIFICATIONS WHERE APPLICABLE, U404, U407, U410, U465, U906 AND U914, UNLESS NOTED OTHERWISE.
9. ALL PENETRATIONS THROUGH RATED WALLS MUST BE PATCHED WITH A FIRE RATED PRODUCT TO MAINTAIN THE RATING. PARTITIONS SHOWN IN PLANS AND BE PROPERLY IDENTIFIED ABOVE FINISH CEILING
10. SOUND ATTENUATION INSULATION SHALL COMPLY WITH FLORIDA BUILDING CODE 2020 (Seventh edition), SECTION 720 (THERMAL-AND SOUND-INSULATION MATERIALS)
11. PROVIDE ⅝" GREENBOARD GYPSUM PANELS AT TOILET ROOMS AND JANITOR ROOMS WALLS NOT RECEIVING TILES
12. INSTALL SNAP-IN 1 ⅜" COLD ROLLED CHANNEL STIFFENERS TROUGH STUDS AT MID-SPAN
13. PROVIDE KICKBACKS TO STRUCTURE AT 48" ON CENTER AS NECESSARY. TYPICAL AT ALL PARTITION TYPES.
14. PARTITIONS AT POST OFFICE SHALL COMPLY WITH THE FOLLOWING:

CONVENTIONAL STEEL MEMBERS SHALL BE A MINIMUM OF 20 GAUGE (0.0296 INCH, 0.752 MM). EMBOSSED STEEL MEMBERS SHALL BE A MINIMUM OF 20 GAUGE (0.0190 INCH TO 0.0209 INCH, 0.483 MM TO 0.531 MM). THE THICKNESS OF STEEL MEMBERS SHALL BE INCREASED AS REQUIRED IN COMPLIANCE WITH ASTM C754-15 LIMITING HEIGHT TABLES. PARTITION ASSEMBLY STC RATING: 42 MIN.

PARTITION NOTED AS SECURITY PARTITION TO EXTEND TO UNDERSIDE OF SLAB



POST OFFICE FLOOR PLAN



MARBLE HALL FLOOR PLAN - Fist floor



OFFICE / POLICE STATION FLOOR PLAN - Second floor

Line denotes location where partition is to go to underside of structure.

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Florida License No. AR-0014717

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A6.1

sheet:
of

DOOR SCHEDULE

MARK	NO.	ROOM NAME	TYPE DR	TYPE FR	LEAFS	DOOR OPENING SIZE WIDTH	DOOR OPENING SIZE HEIGHT	DOOR OPENING SIZE THK.	MATERIAL DOOR	MATERIAL FRAME	FINISH DOOR	FINISH FRAME	DETAILS	HDWE	FIRE RATING	REMARKS	COLOR CODE
01-100	100-1	Stairs-1	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	5/A7.2	HW-3		DS MDC, PCA, NOA	
01-101A	101	Community Center Open Area	B2	F2	2	3' - 0"	8' - 0"	0' - 1 3/4"	ALUM/GLASS	ALUMINUM	ANODIZED	ANODIZED	11/A7.2	HW-1		DS MDC, PCA, NOA	
01-101B	101	Community Center Open Area	B2	F2	2	3' - 0"	8' - 0"	0' - 1 3/4"	ALUM/GLASS	ALUMINUM	ANODIZED	ANODIZED	8/A7.2 (SIM)	HW-1		DS MDC, PCA, NOA	
01-101C	101	Community Center Open Area	B2	F2	2	3' - 0"	8' - 0"	0' - 1 3/4"	ALUM/GLASS	ALUMINUM	ANODIZED	ANODIZED	8/A7.2 (SIM)	HW-1		DS MDC, PCA, NOA	
01-101D	101	Community Center Open Area	B2	F2	2	3' - 0"	8' - 0"	0' - 1 3/4"	ALUM/GLASS	ALUMINUM	ANODIZED	ANODIZED	8/A7.2 (SIM)	HW-1		DS MDC, PCA, NOA	
01-101E	101	Community Center Open Area	B2	F2	2	3' - 0"	8' - 0"	0' - 1 3/4"	ALUM/GLASS	ALUMINUM	ANODIZED	ANODIZED	8/A7.2	HW-1		DS MDC, PCA, NOA	
01-103	103	Supply Room	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-12			
01-104A	104	Warming Kitchen	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-17			
01-104B	104	Warming Kitchen	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	6/A7.2	HW-5		DS MDC, PCA, NOA	
01-105	105	Electrical Room	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	5/A7.2	HW-4	C-45 MIN.	DS MDC, PCA, NOA	
01-106	106	Janitor	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-12	C-45 MIN.		
01-107	107	Generator room	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	5/A7.2	HW-5	B-90 MIN.	DS MDC, PCA, NOA	
01-108	101	Community Center Open Area	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	-	STEEL	-	PAINT	4/A7.2	HW-26			
01-109A	108	Vestibule	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	2/A7.2	HW-20			
01-109B	109	Women's Restroom	A1	F1		2' - 2"	6' - 8"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	3/A7.2	HW-23		NOTE 7	
01-109C	109	Women's Restroom	A1	F1		2' - 2"	6' - 8"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	3/A7.2	HW-23		NOTE 7	
01-109D	109	Women's Restroom	A1	F1		2' - 6"	6' - 8"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	3/A7.2	HW-23		NOTE 7	
01-110A	110	Men's Restroom	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	2/A7.2	HW-20			
01-110B	110	Men's Restroom	A1	F1		2' - 6"	6' - 8"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	3/A7.2	HW-23		NOTE 7	
01-110C	110	Men's Restroom	A1	F1		2' - 2"	6' - 8"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	3/A7.2	HW-23		NOTE 7	
01-111	111A	Mechanical Room - First Floor	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	7/A7.2	HW-11			
02-100A	100-2	Stairs	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-22			
02-100B	100B	Roof	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	5/A7.2	HW-5		DS MDC, PCA, NOA	
02-200B	200	City Administrator	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-9			
02-201	201	Executive Assistant	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-9			
02-203	203	City Clerk	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-9			
02-204	204	Assistant City Clerk	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-9			
02-205	205	Utility Clerk	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-9			
02-206	206	Conference Room / EOC	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	STAIN	PAINT	1/A7.2	HW-17			
02-207	209B	Electrical room	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-13	C-45 MIN.		
02-209	209	Building Department	D	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	STAIN	PAINT	1/A7.2	HW-18			
02-209A	209A	Plan Storage	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-13			
02-210	210	Secure Storage	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	STAIN	PAINT	1/A7.2	HW-13			
02-211	211	Code	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	STAIN	PAINT	1/A7.2	HW-17			
02-212	209	Building Department	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-9			
02-213	209	Building Department	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-9			
02-214	214	Mechanical Room	A	F1		4' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.1	HW-11			
02-215	215	IT Room /	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-13			
02-217	217	Janitor's	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	2/A7.2	HW-13	C-45 MIN.		
02-218	218	Men's Restroom	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	STAIN	PAINT	2/A7.2	HW-15			
02-219	219	Women's Restroom	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	STAIN	PAINT	2/A7.2	HW-15			
02-221	221	Chief of Police	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-9			
02-222	222	Secure / Evidence/ Weapon's room	F	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-14			
02-223	223	Interview room	F	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-16			
02-224	224	Duty Officers	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-6			
02-225	225	Sargeant	A1	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-9			
02-226	226	Women's Restroom	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	2/A7.2	HW-21			
02-227	227	Women's Locker	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	-	STEEL	-	PAINT	3/A7.2 SIM.	HW-26			
02-228	228	Men's Restroom	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	2/A7.2	HW-20			
02-229	229	Men's Locker	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	-	STEEL	-	PAINT	3/A7.2 SIM.	HW-26			
02-230A	230	Corridor A	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	STAIN	PAINT	1/A7.2	HW-8			
02-232A	232-2	Stairs	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-22	C-45 MIN.		
02-232B	232-1	Stairs	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	6/A7.2	HW-3		DS MDC, PCA, NOA	
02-232C	232-1	Stairs	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	3/A7.1	HW-7	C-45 MIN.		
02-233	233	Telephone room	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-16			
02-234	234	Supplies	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.2	HW-18			
P01-100A	P100	Rent-a-box	B2	F4	2	3' - 0"	7' - 0"	0' - 1 3/4"	ALUM/GLASS	ALUMINUM	ANODIZED	ANODIZED	11/A7.2 (SIM)	PHW-001		DS MDC, PCA, NOA	
P01-100B	P100	Rent-a-box	B1	F3		3' - 0"	7' - 0"	0' - 1 3/4"	ALUM/GLASS	ALUMINUM	ANODIZED	ANODIZED	8/A7.2 (SIM)	PHW-002		DS MDC, PCA, NOA	
P01-100C	P100	Rent-a-box	G	-		12' - 0"	9' - 0"		STEEL	STEEL	PAINT	PAINT	-	PHW-024			
P01-100D	P100	Rent-a-box	M	-		1' - 0"	9' - 0"	0' - 1 3/4"	S.C. WOOD	-	-	PLAST. LAM.	-	PHW-027			
P01-101	P101	Janitor's	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	S.C. WOOD	STEEL	PLAST. LAM.	PLAST. LAM.	1/A7.2	PHW-012	C-45 MIN.		
P01-102	P102	Restroom	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	S.C. WOOD	STEEL	PLAST. LAM.	PLAST. LAM.	1/A7.2	PHW-015			
P01-103A	P100	Rent-a-box	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	S.C. WOOD	STEEL	PLAST. LAM.	PLAST. LAM.	1/A7.2	PHW-012			
P01-103B	P103	Work room	D	F1		3' - 0"	7' - 0"	0' - 1 3/4"	S.C. WOOD	STEEL	PLAST. LAM.	PLAST. LAM.	1/A7.2	PHW-012			
P01-103C	P100	Rent-a-box	C	F1		3' - 0"	7' - 0"	0' - 1 3/4"	S.C. WOOD	STEEL	PLAST. LAM.	PLAST. LAM.	1/A7.2	PHW-019			
P01-104A	P104	Receiving	K	-		6' - 6"	6' - 8"		STEEL	STEEL	PAINT	PAINT	-	PHW-024		DS MDC, PCA, NOA	
P01-104B	P103	Work room	K	-		6' - 6"	6' - 8"		STEEL	STEEL	PAINT	PAINT	-	PHW-025			
T01-113	113	Stairs	B2	F3	2	3' - 0"	8' - 0"	0' - 1 3/4"	ALUM/GLASS	ALUMINUM	ANODIZED	ANODIZED	11/A7.2	HW-1		DS MDC, PCA, NOA	
T01-115	113	Stairs	A1	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.1	HW-10	C-45 MIN.		
T01-116	116	Mech. Rm.	A	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	1/A7.1	HW-5		DS MDC, PCA, NOA	
T02-113	113-2	Stairs	B2	F1		3' - 0"	7' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	3/A7.1		C-45 MIN.		
T04-113	113-4A	Tower Observatory	B2	F2	2	3' - 0"	8' - 0"	0' - 1 3/4"	STEEL	STEEL	PAINT	PAINT	11/A7.2	HW-1		DS MDC, PCA, NOA	

DOOR NOTES

1. THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE 5 LBS.
2. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO OPERATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.
3. VERIFY ALL DIMENSIONS IN FIELD AND REPORT DISCREPANCIES TO ARCHITECT PRIOR TO COMMENCING CONSTRUCTION.
4. THE ELEVATION OF THE FLOOR SURFACES ON BOTH SIDES OF ALL DOORS SHALL NOT VARY BY MORE THAN 1/2", IN COMPLIANCE WITH NFPA 101, SECTION 7.2.1.3
5. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES IN EXCESS OF 1/4" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2, IN COMPLIANCE WITH NFPA 101, SECTION 7.2.1.3.4
6. DS INDICATES PREPARATION FOR SECURITY SWITCH. SEE ELECTRICAL DRAWINGS.
7. PROVIDE 3/4" UNDERCUT AT DOOR
8. REFER TO SPECIFICATIONS FOR HARDWARE TYPES.
9. ALL EXTERIOR DOORS SHALL HAVE MIAMI DADE COUNTY (MDC), PRODUCT CONTROL APPROVAL (PCA), NOTICE OF ACCEPTANCE (NOA) OR FLORIDA STATE APPROVAL

HARDWARE NOTES

1. ALL DOOR HARDWARE SHALL COMPLY WITH :
   (a.) Florida Building Code 2020 (Seventh edition) 453.13.6, 1010.1.9,
   (b.) Americans with Disabilities Act and Accessibility Guidelines (ADAAG).
   (c.) Florida Department of Community Affairs-Florida Accessibility Code for Building
2. FOR HARDWARE TYPES REFER TO SPECIFICATIONS

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Florida registration No. AR0014717

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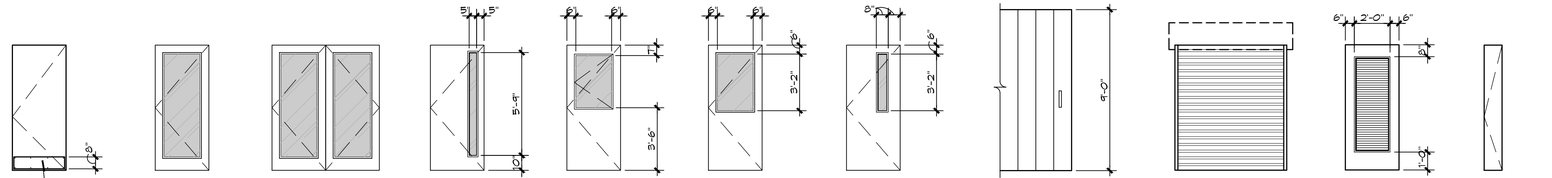
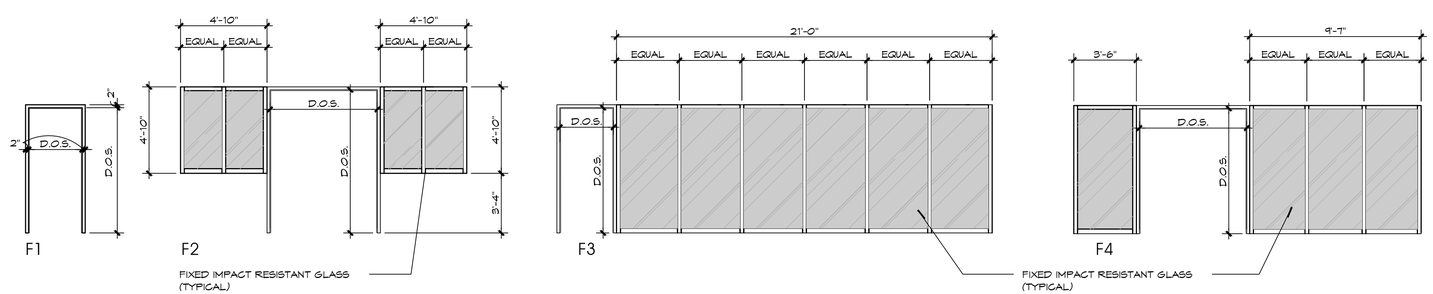
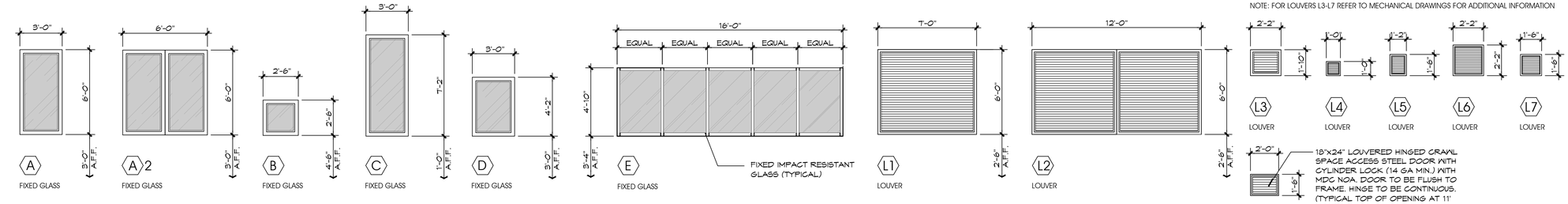


NOTE:
USE ¼" TEMPERED CLEAR GLASS AT INTERIOR DOORS

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

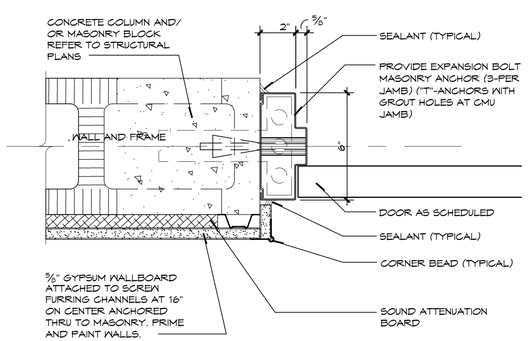


FRAME TYPES 1/4"=1'-0"

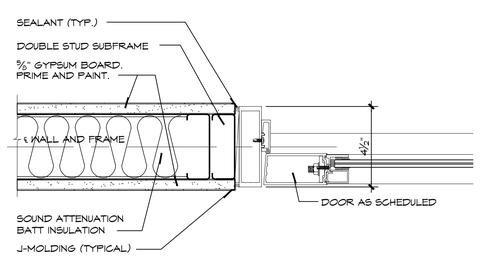


NOTE: FOR LOUVERS L3-L7 REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION

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



1 A7.1 DETAIL 3"=1'-0"



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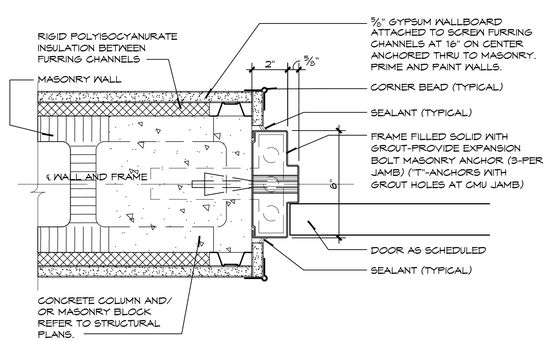

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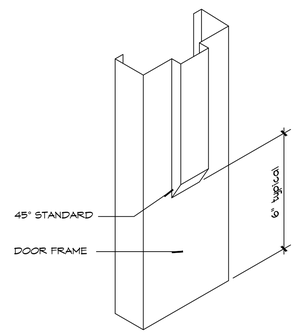
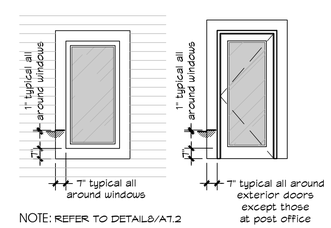


HOSPITAL STOP not to scale

NOTE:
USE AT TOILET STALL DOORS IN ROOMS 109 AND 110



NOTE: REFER TO DETAIL8/A7.2

WINDOW AND DOOR STUCCO TRIM not to scale

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AS INDICATED

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FELIX A. ROSABAL JR.
REGISTERED ARCHITECT
Tony Rosabal, A.I.A., LEED AP
Florida Registered AR 0014717

sheet number
A7.1

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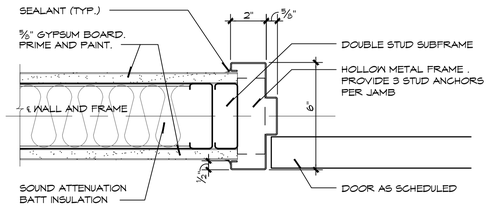
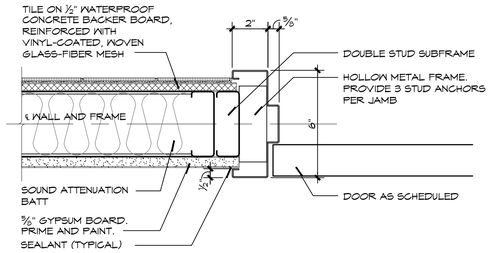
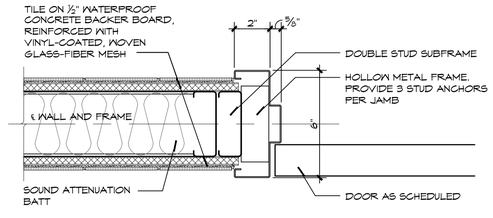


1 DETAIL A7.2 3"=1'-0"



2 DETAIL A7.2 3"=1'-0"



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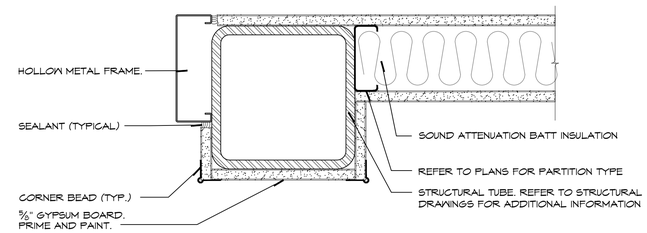

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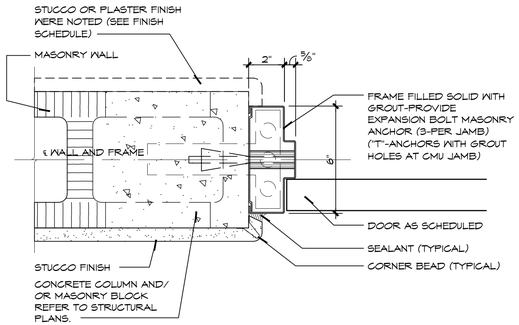

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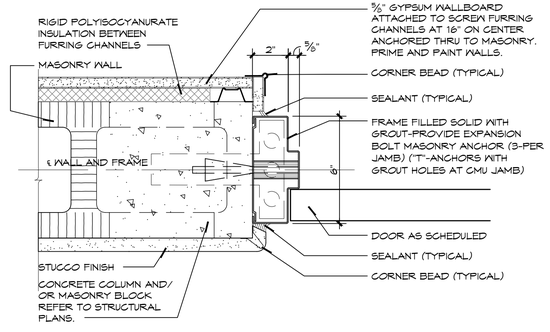
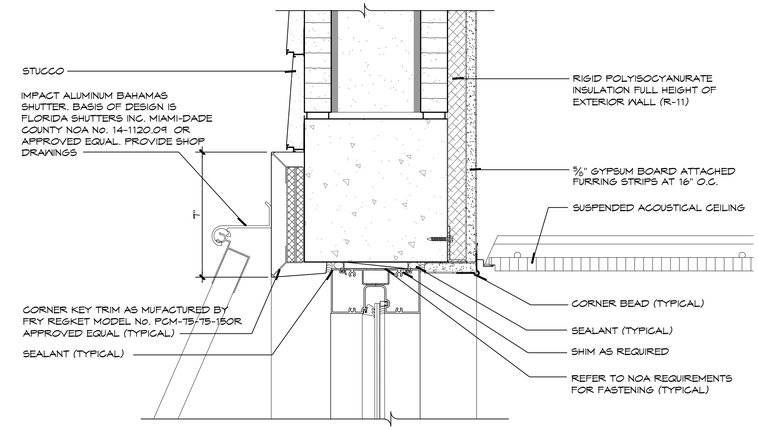


6 DETAIL A7.2 3"=1'-0"

8 DETAIL A7.2 3"=1'-0"



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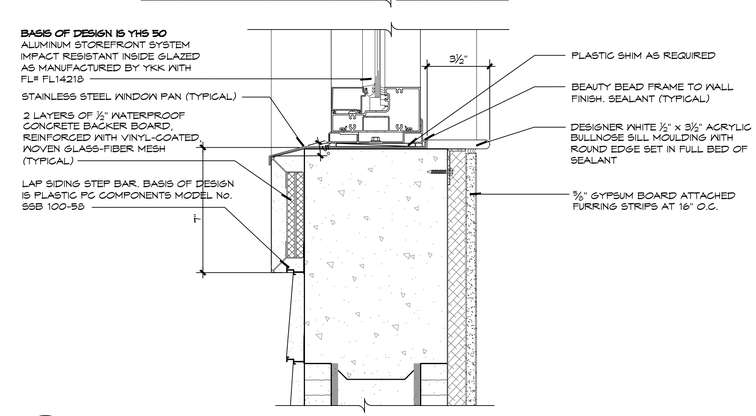

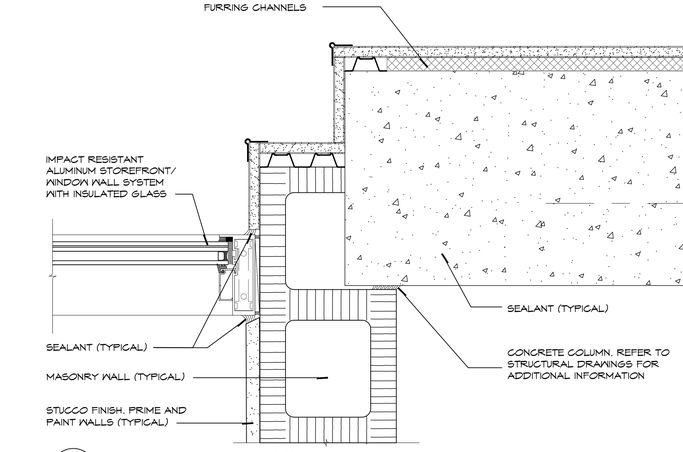

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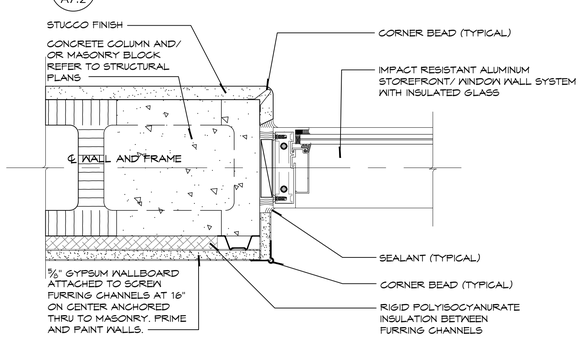

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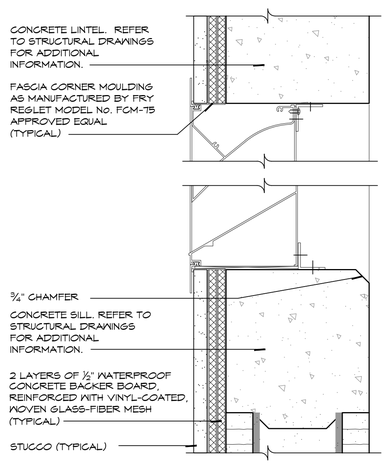

10 LOUVER DETAIL A7.2 3"=1'-0"

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LIVS project number:
201913

Client project number:
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sheet title
DOOR AND WINDOW DETAILS

revisions

issued for:
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scale:
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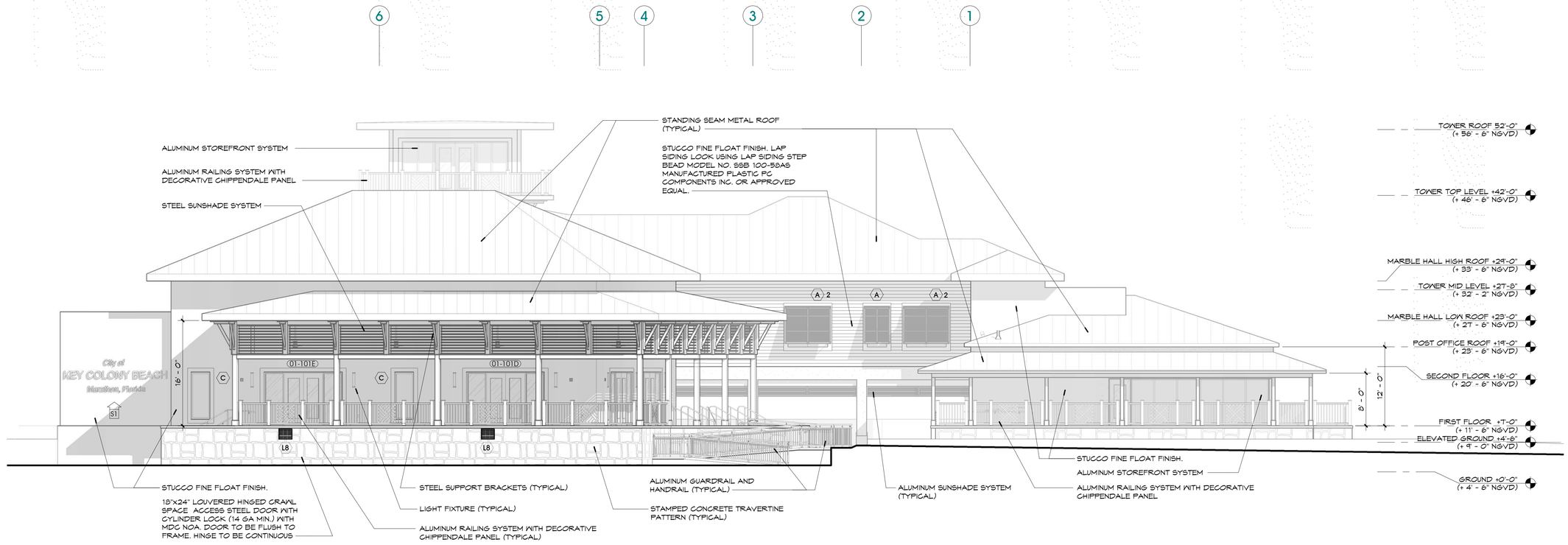
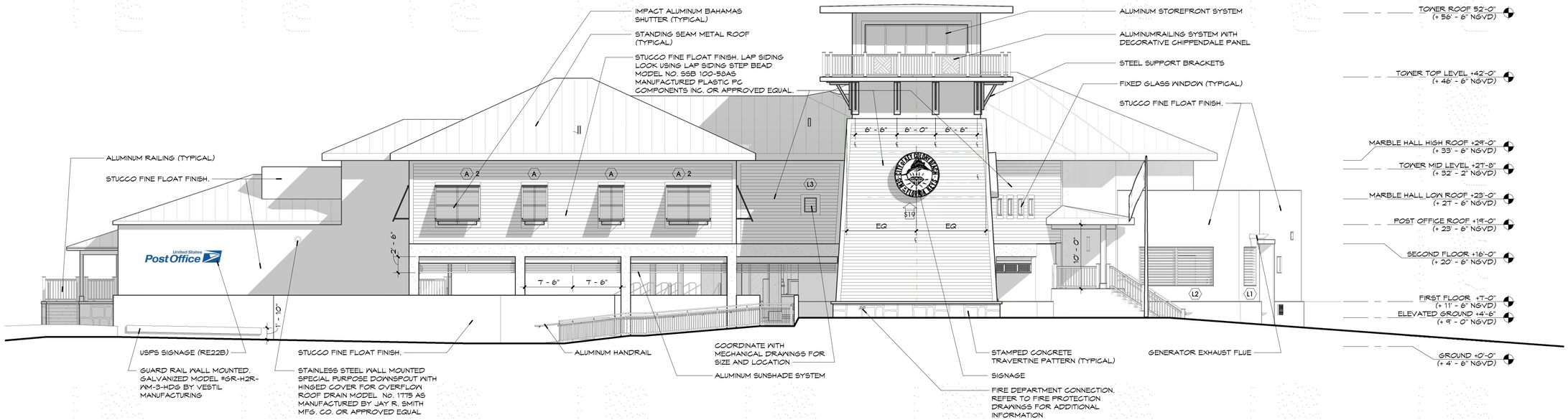
STATE OF FLORIDA
TONY A. ROSABAL JR.
LICENSED LANDSCAPE ARCHITECT
Tony Rosabal, A.L.A., LEED AP
FLORIDA REGISTERED AR 0014717

sheet number
A7.2

sheet:
of



EXTERIOR ELEVATION - North 1/8" = 1'-0"



EXTERIOR ELEVATION - South 1/8" = 1'-0"

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LIVS project number:
201913

Client project number:
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sheet title
EXTERIOR ELEVATIONS

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1/8" = 1'-0"

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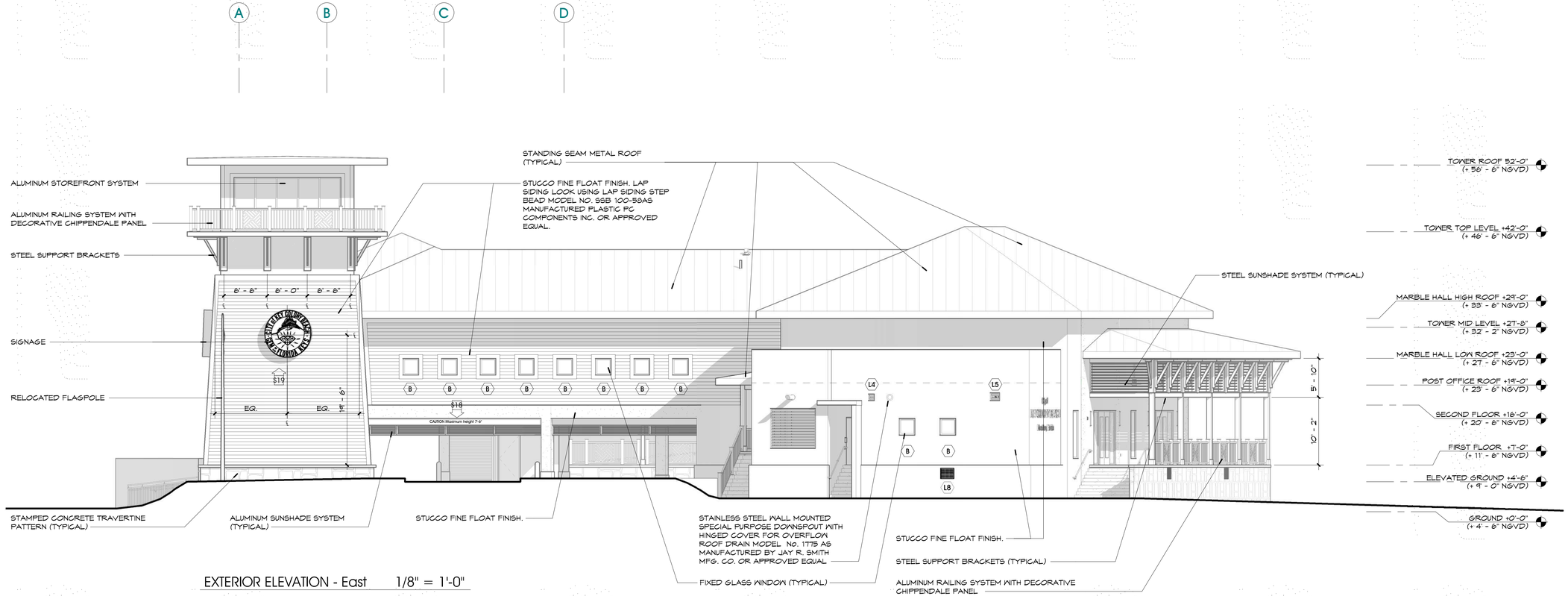
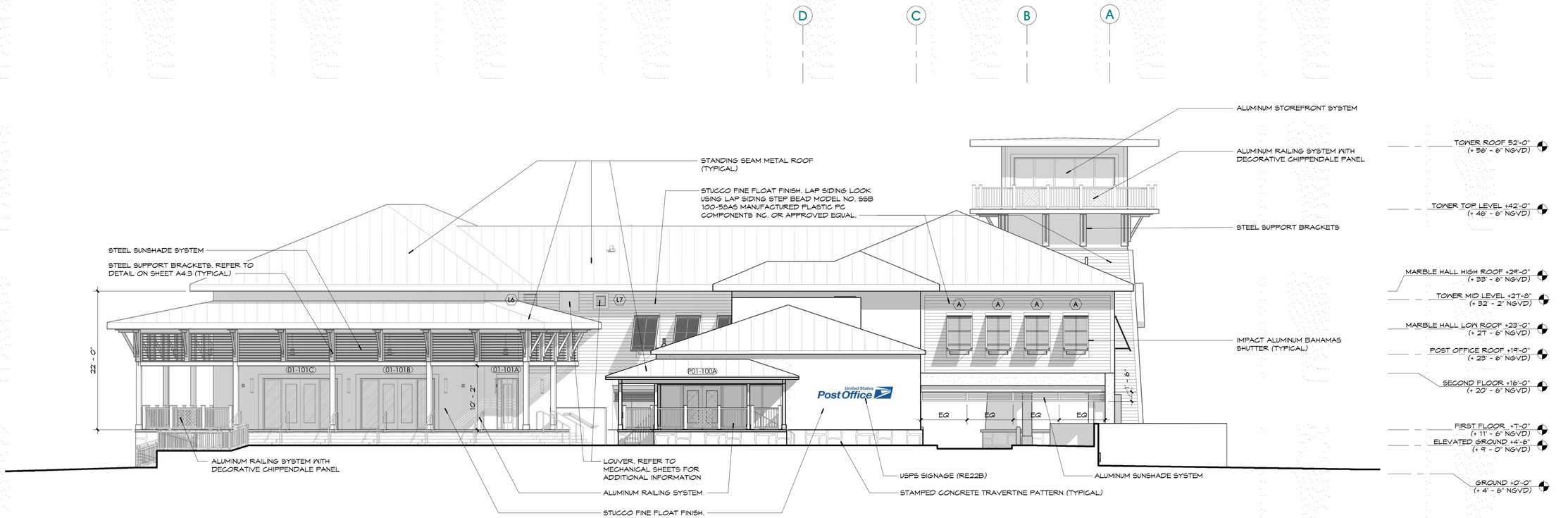
Tony Rosabal, A.I.A., LEED AP
Florida Reg. # AR0011717

sheet number
A8.0

sheet:
of



EXTERIOR ELEVATION - East 1/8" = 1'-0"



EXTERIOR ELEVATION - West 1/8" = 1'-0"

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EXTERIOR ELEVATIONS

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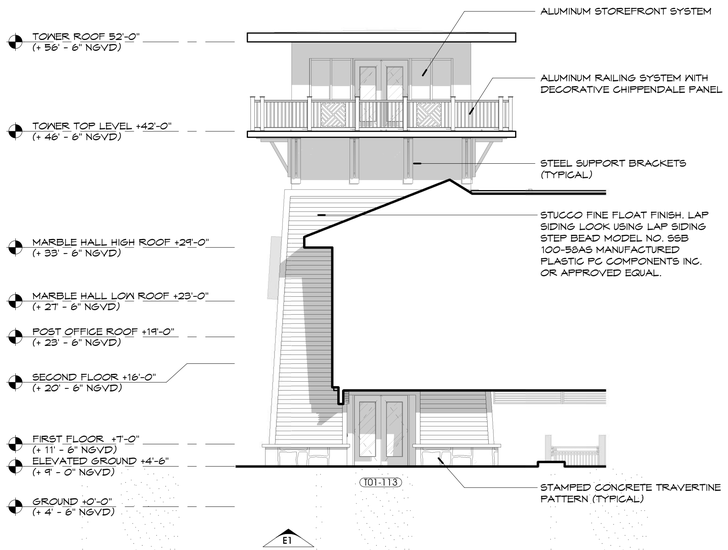
scale:
1/8" = 1'-0"

seal

STATE OF FLORIDA
FELIX A. ROSABAL JR.
REGISTERED ARCHITECT
Tony Rosabal, A.I.A., LEED AP
Florida Certificate No. AR0017717

sheet number
A8.1

sheet:
of



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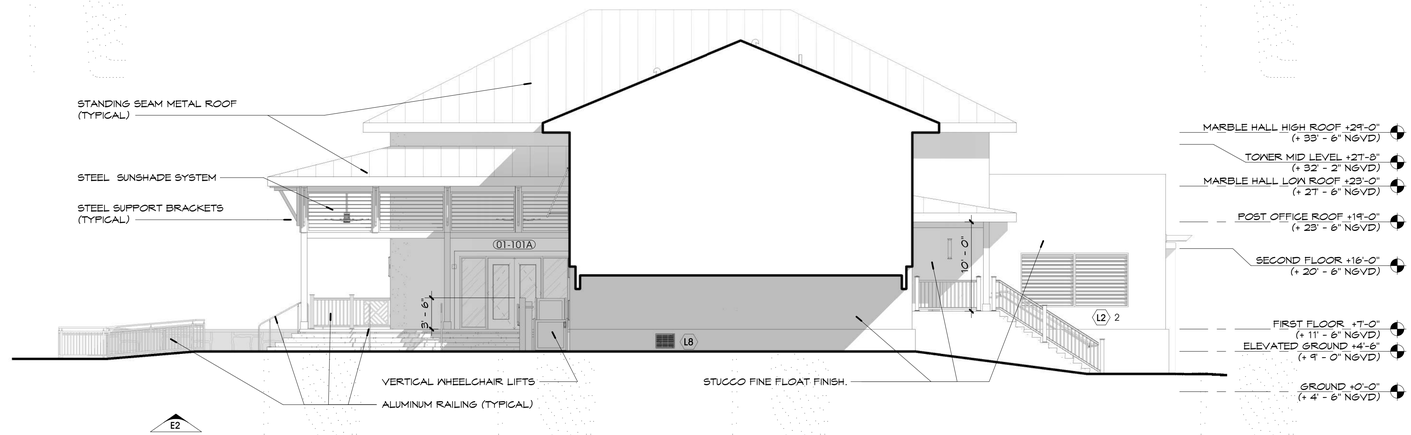

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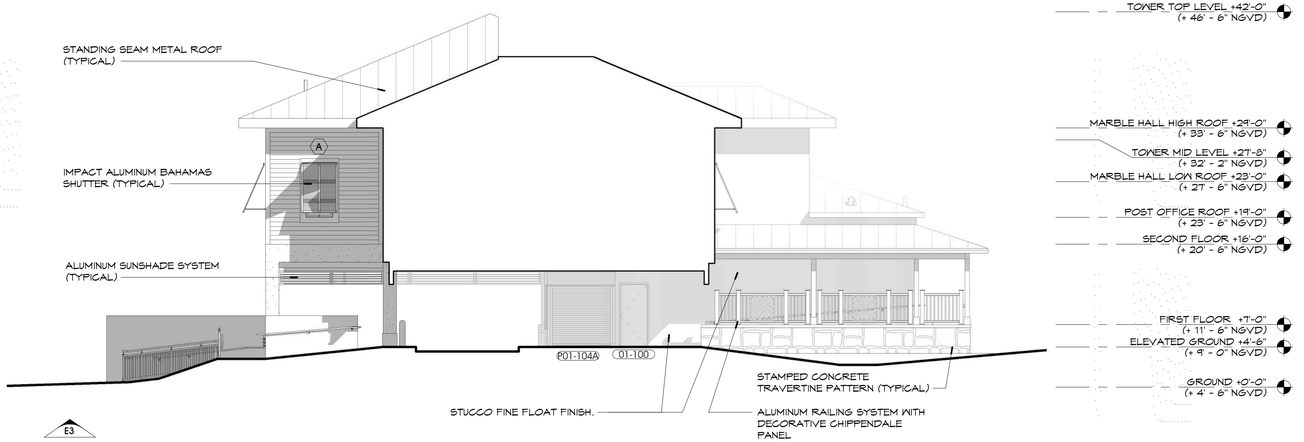

E3

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201913

Client project number:
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sheet title
EXTERIOR ELEVATIONS

revisions

issued for:
BID SET

issue date:
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drawn by: Author
approved by: Checker

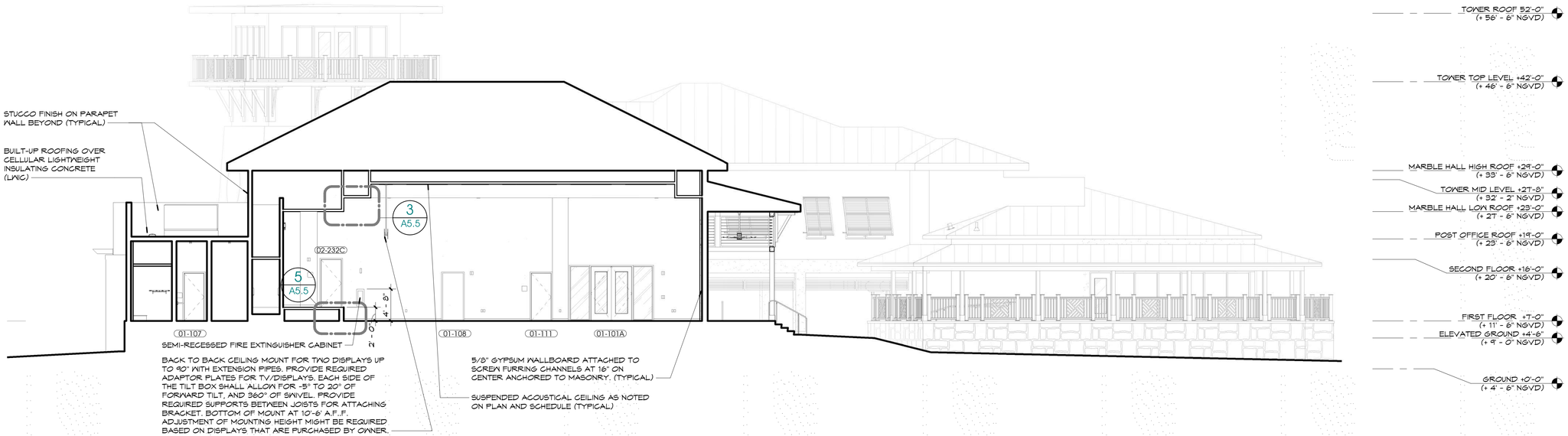
scale:
1/8" = 1'-0"

STATE OF FLORIDA
FELIX A. ROSABAL JR.
REGISTERED ARCHITECT

Tony Rosabal, A.I.A., LEED AP
Florida Reg. Architect No. AR0014717

sheet number
A8.2

sheet:
of



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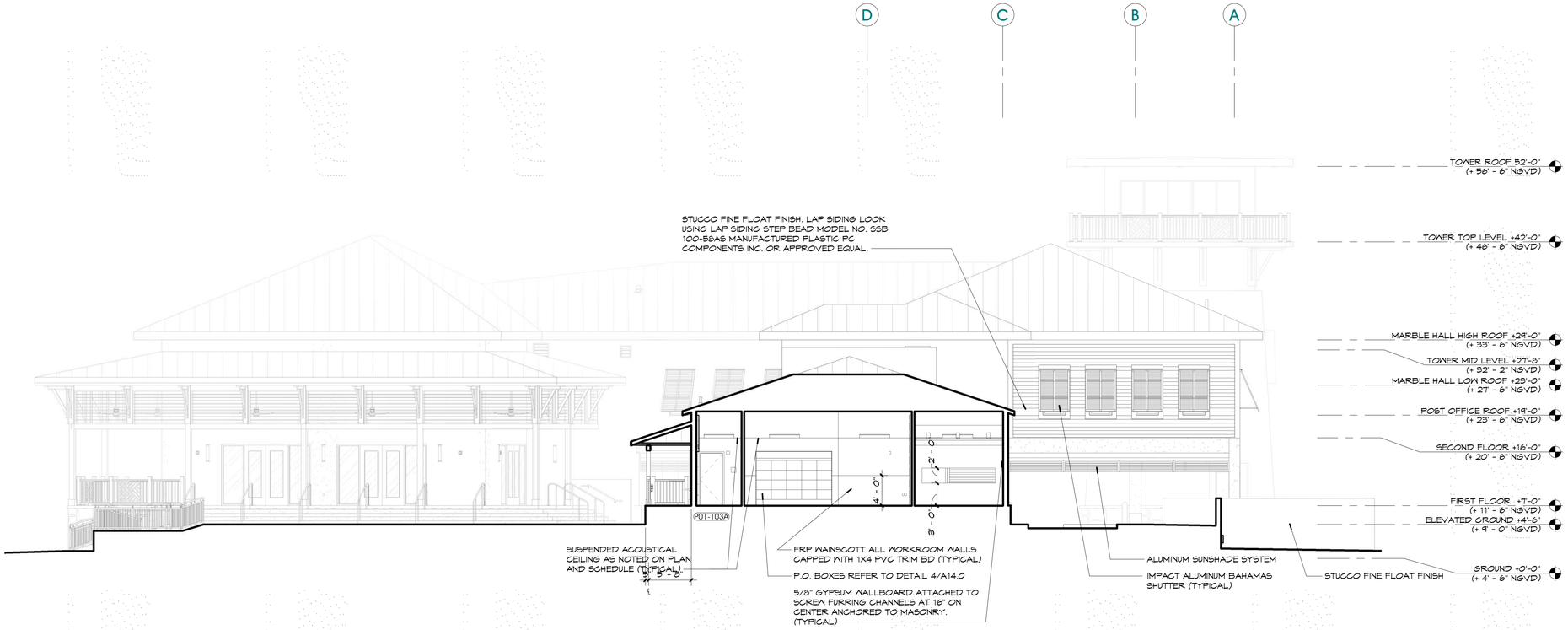

Section 2 1/8" = 1'-0"

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BUILDING SECTIONS

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1/8" = 1'-0"

seal

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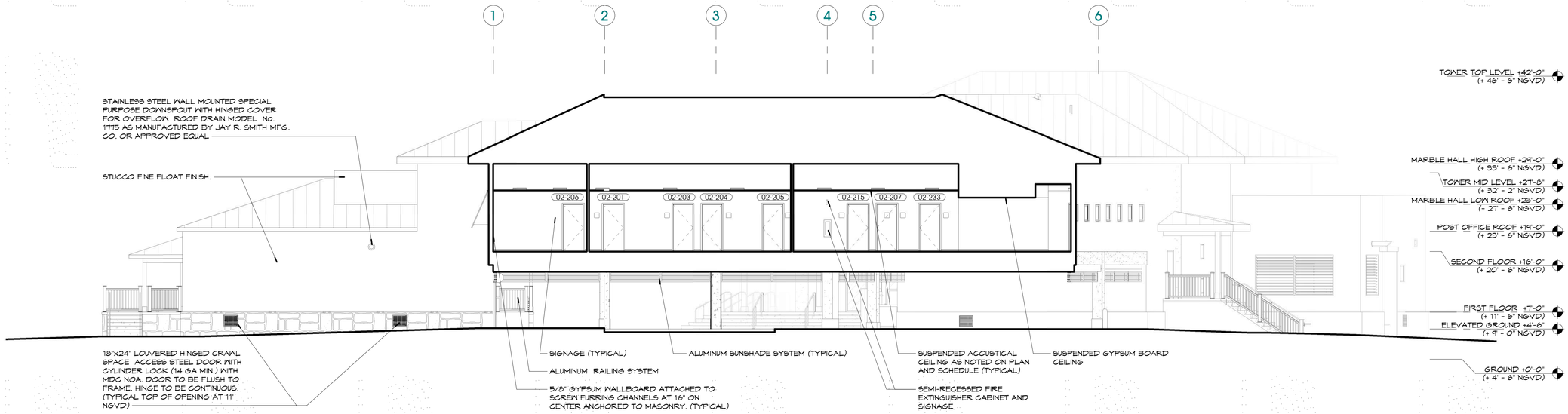
FELIX A. ROSABAL JR.
REGISTERED ARCHITECT

Tony Rosabal, A.I.A., LEED AP
Florida Registration No. AR0014717

sheet number
A9.0

sheet:
of



Section 3 1/8" = 1'-0"

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1/8" = 1'-0"

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REGISTERED ARCHITECT

Tony Rosabal, A.I.A., LEED AP
Florida Reg. # AR0012717

sheet number
A9.1

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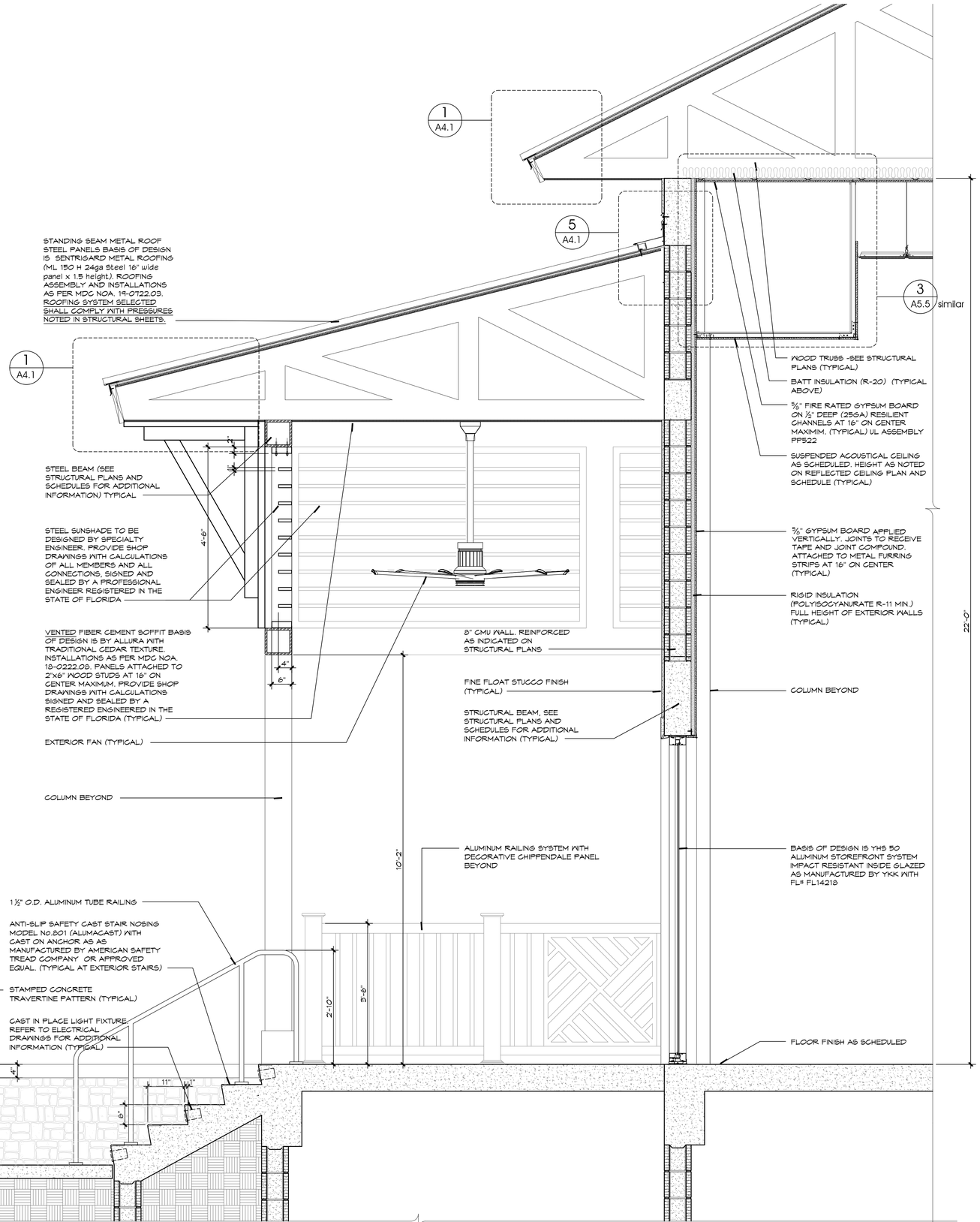

B SECTION 3/4"=1'-0"
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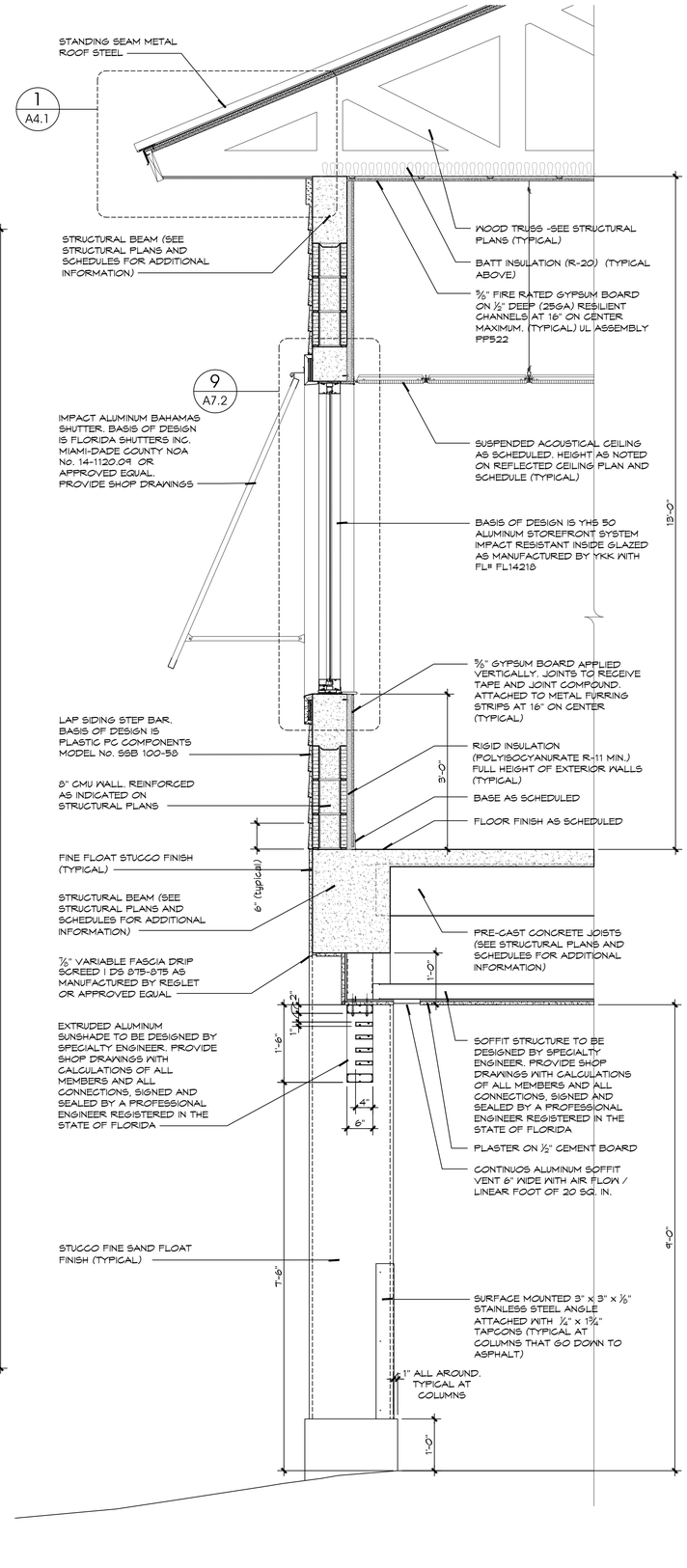

A SECTION 3/4"=1'-0"
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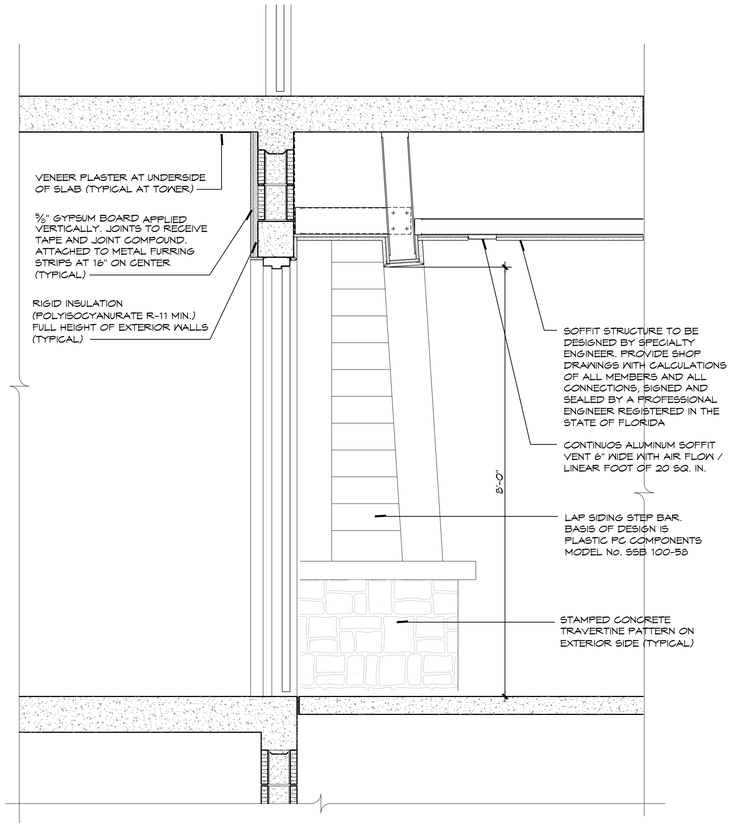
REGISTERED ARCHITECT
Tomas Rosabal, A.I.A., LEED AP
FLORIDA REGISTERED ARCHITECT No. 0014717

sheet number
A10.0

sheet:
of



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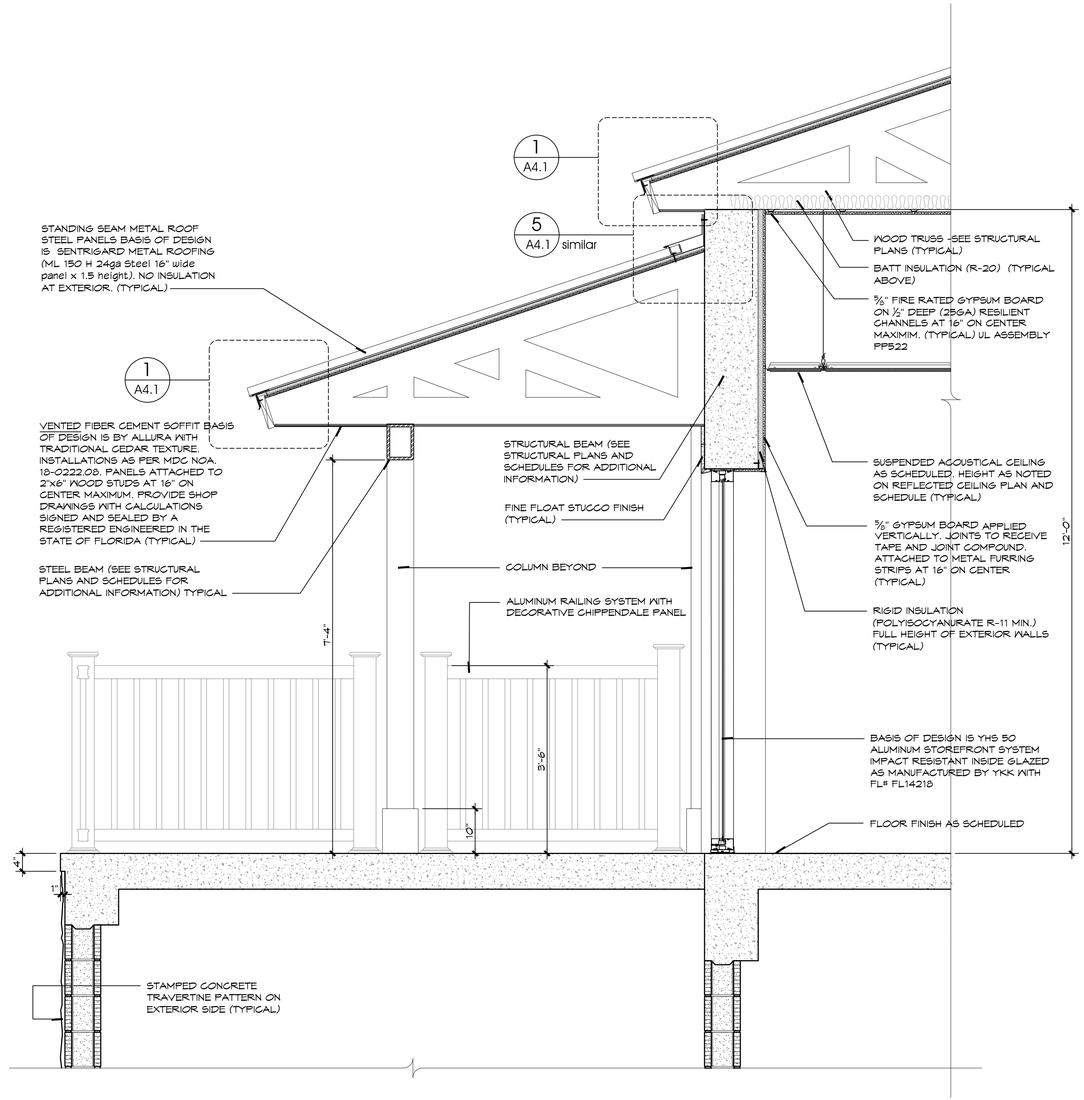

A A10.1 SECTION 3/4"=1'-0"

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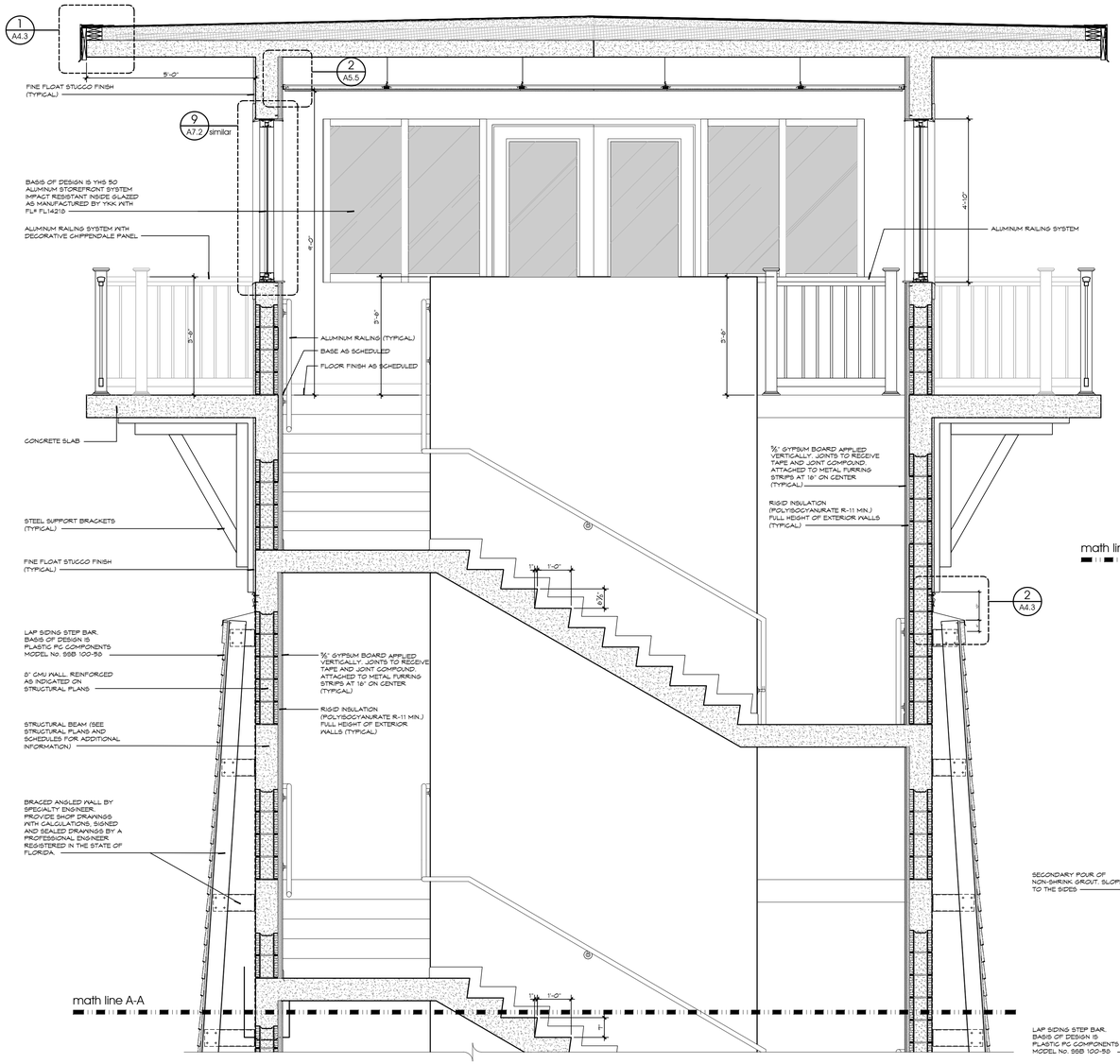
LICENSED ARCHITECT
Tomas Rosabal, A.I.A., LEED AP
Registered Architect #0014717

sheet number
A10.1

sheet:
of



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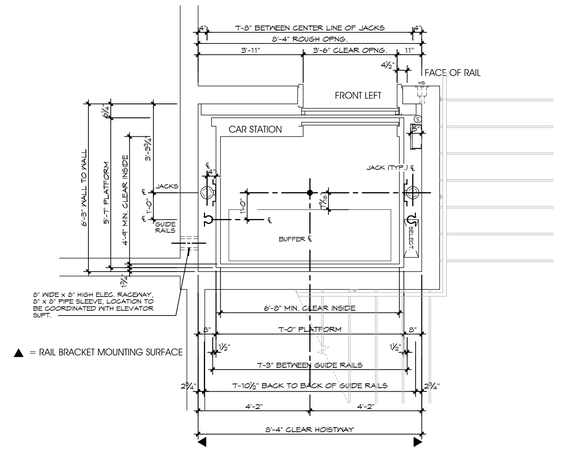

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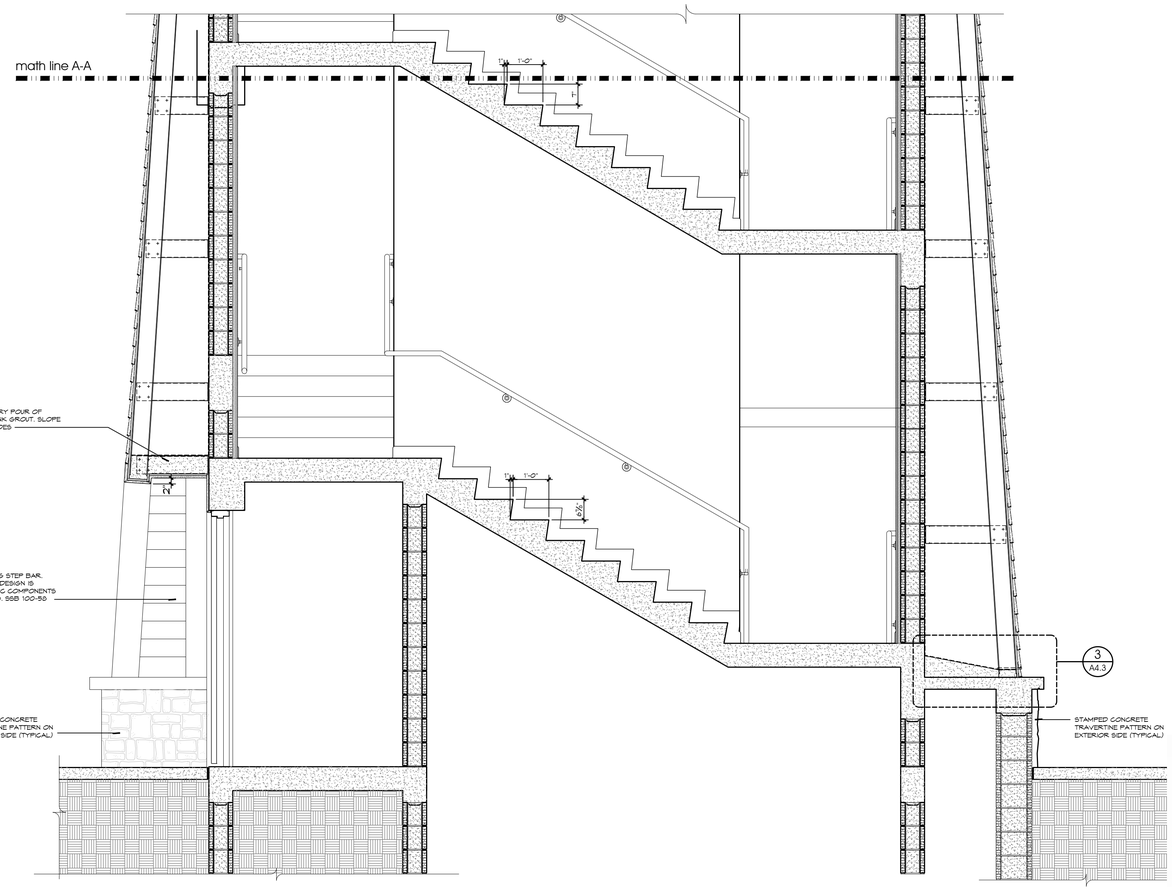

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TOWER SECTION AND HOISTWAY PARTIAL FLOOR PLAN

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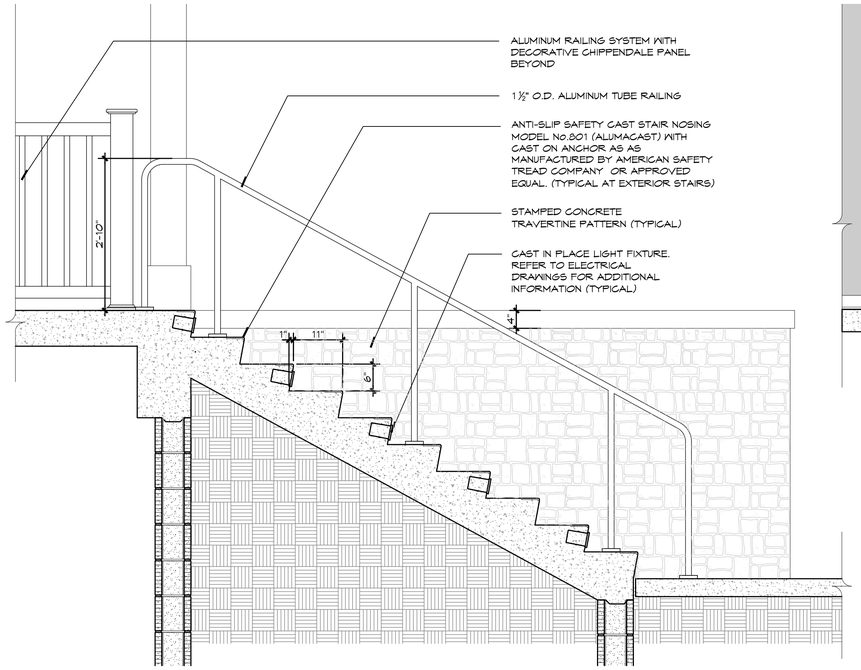
Florida Registration No. AR0014717

sheet number
A10.2

sheet:
of



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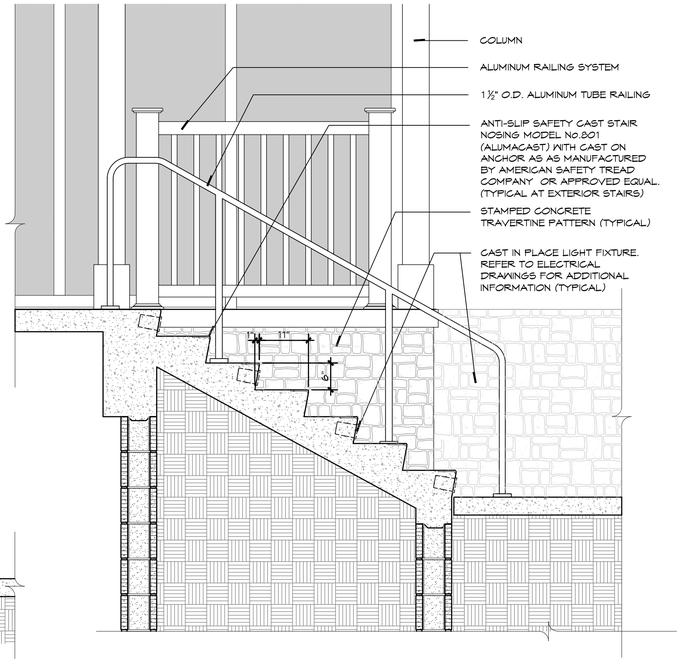

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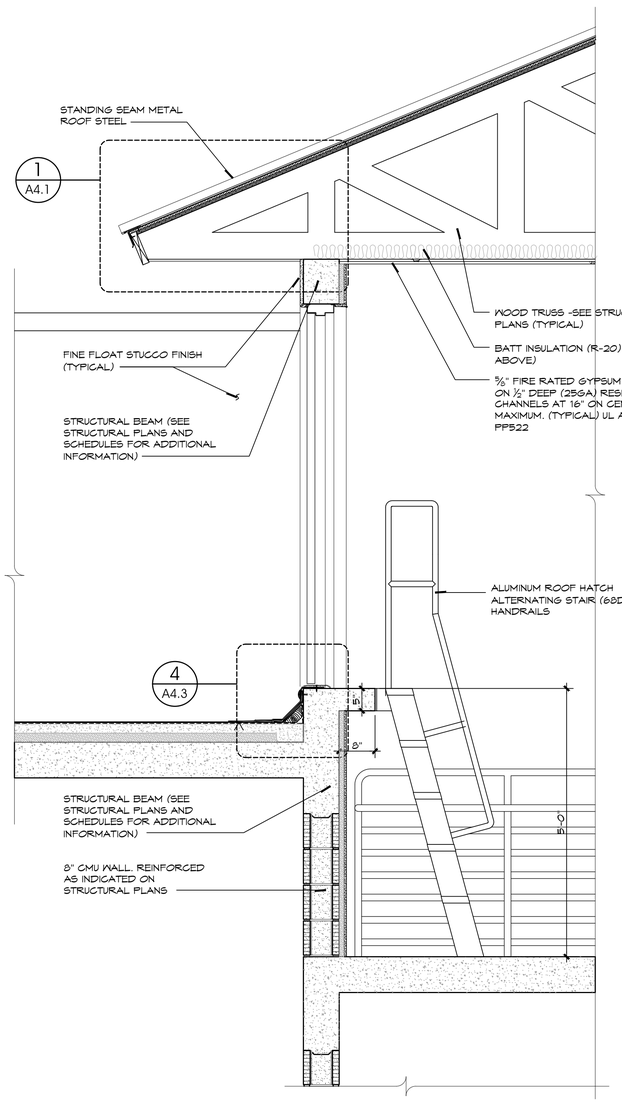

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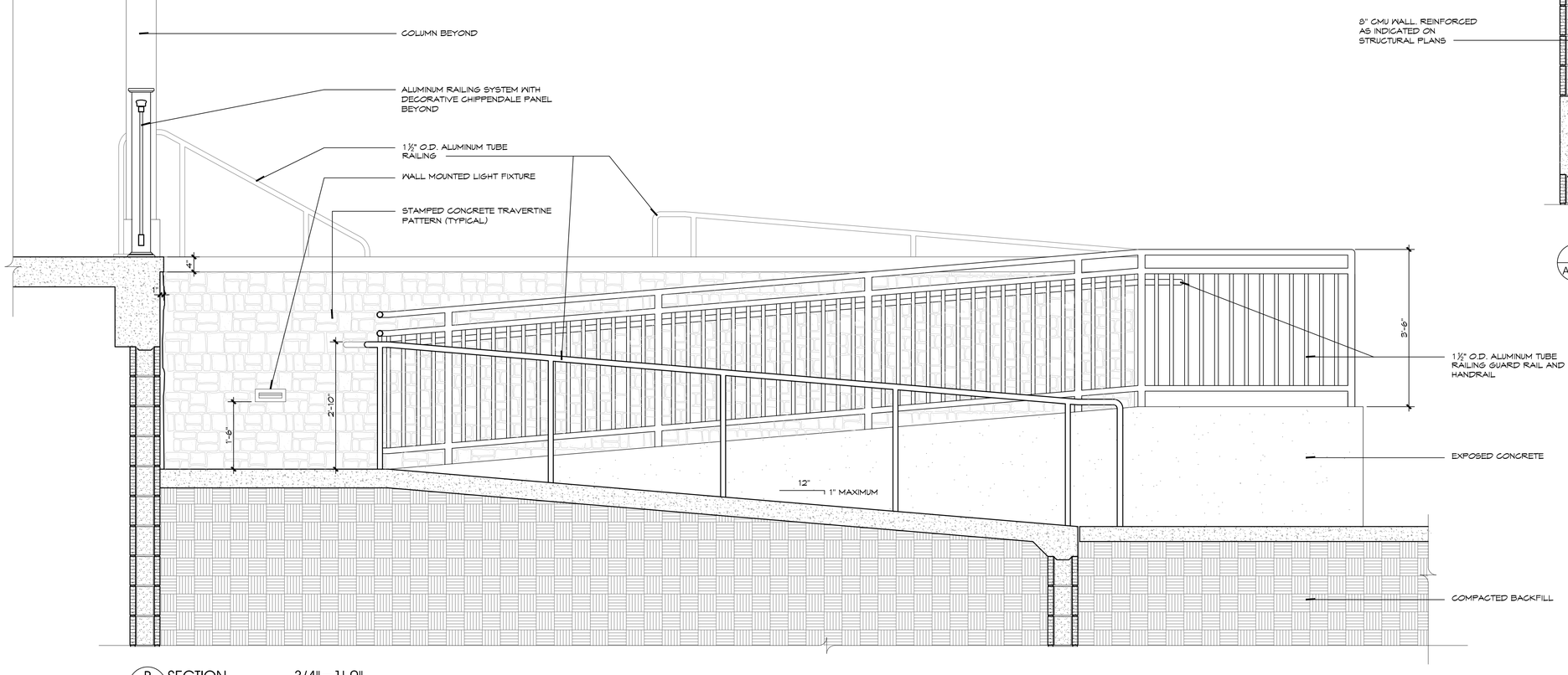

B SECTION 3/4"=1'-0"
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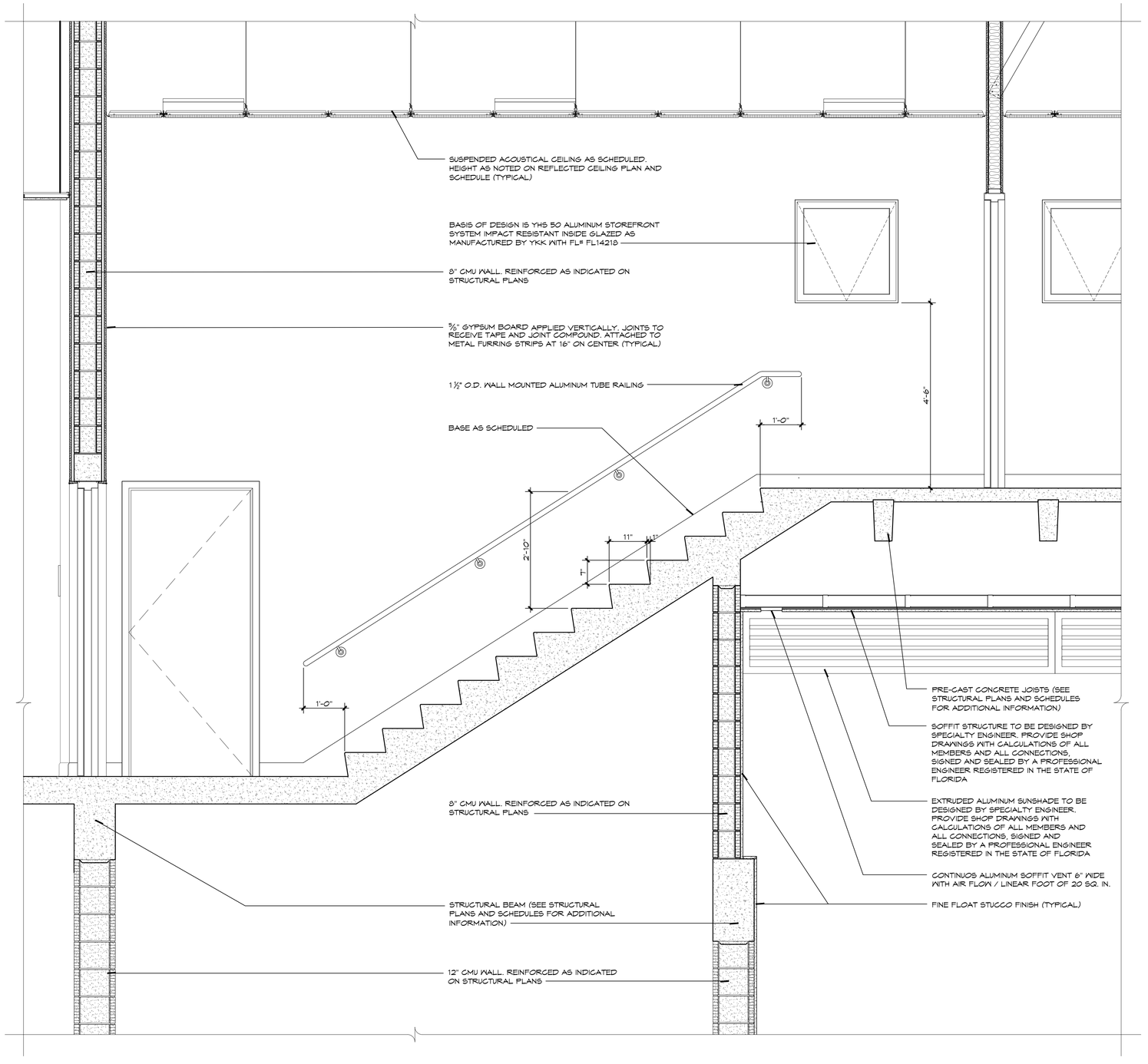
FELIX A. ROSABAL JR.
REGISTERED ARCHITECT
Tony Rosabal, A.I.A., LEED AP
Florida Registered Architect #13717

sheet number
A10.3

sheet:
of



A10.4 A SECTION 3/4"=1'-0"

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consultant:

CITY OF KEY COLONY BEACH | CITY HALL
600 W Ocean Dr . Key Colony . Florida 33051

LIVS project number:
201913

Client project number:
-

sheet title
WALL SECTION

revisions

issued for:
BID SET

issue date:
05.01.23

drawn by:	approved by:
LAC	FAR

scale:
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seal



Tony Rosabal, A.I.A., LEED AP
Florida Registered Architect #AR0017717

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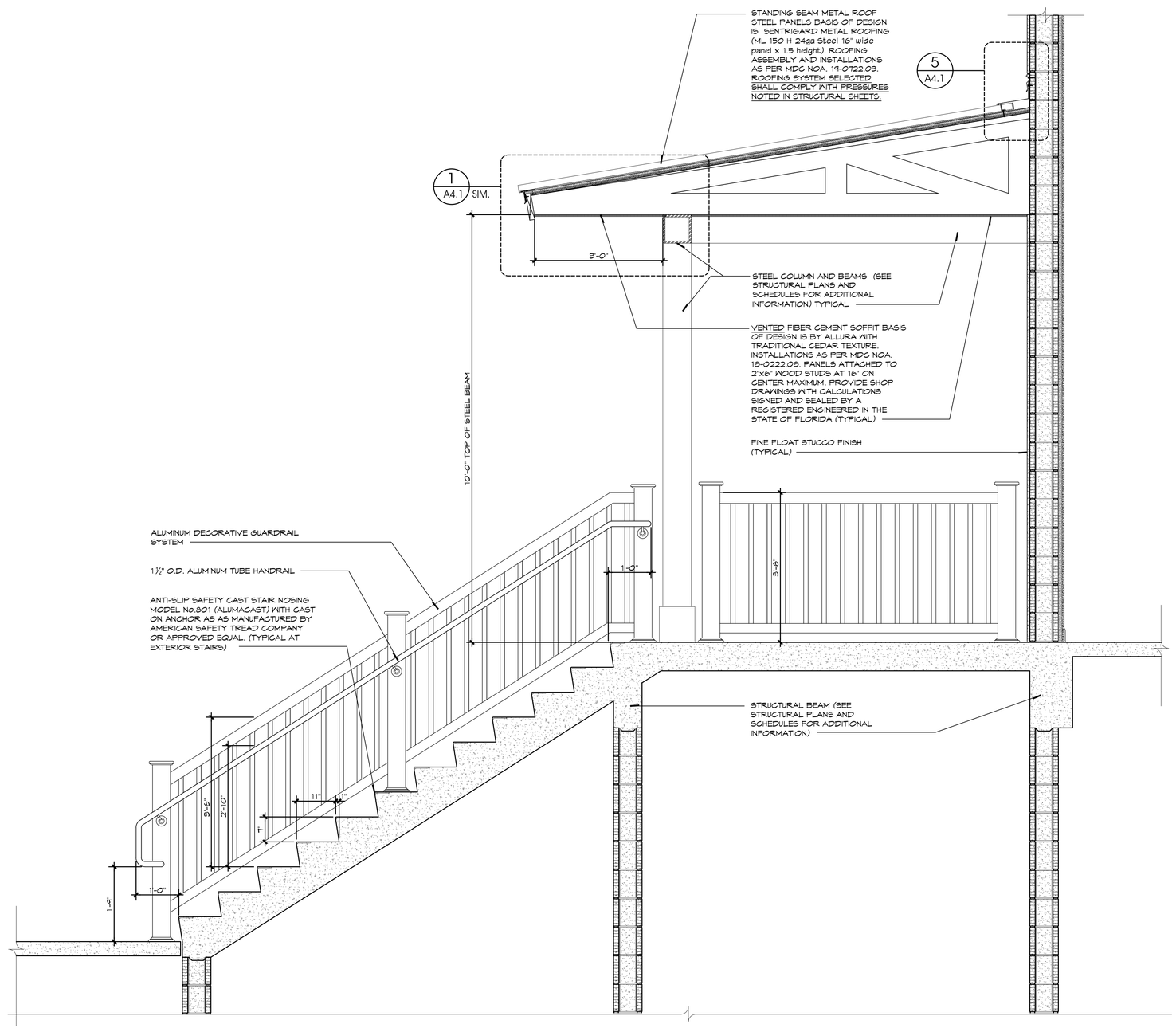

A SECTION 3/4"=1'-0"
A10.5

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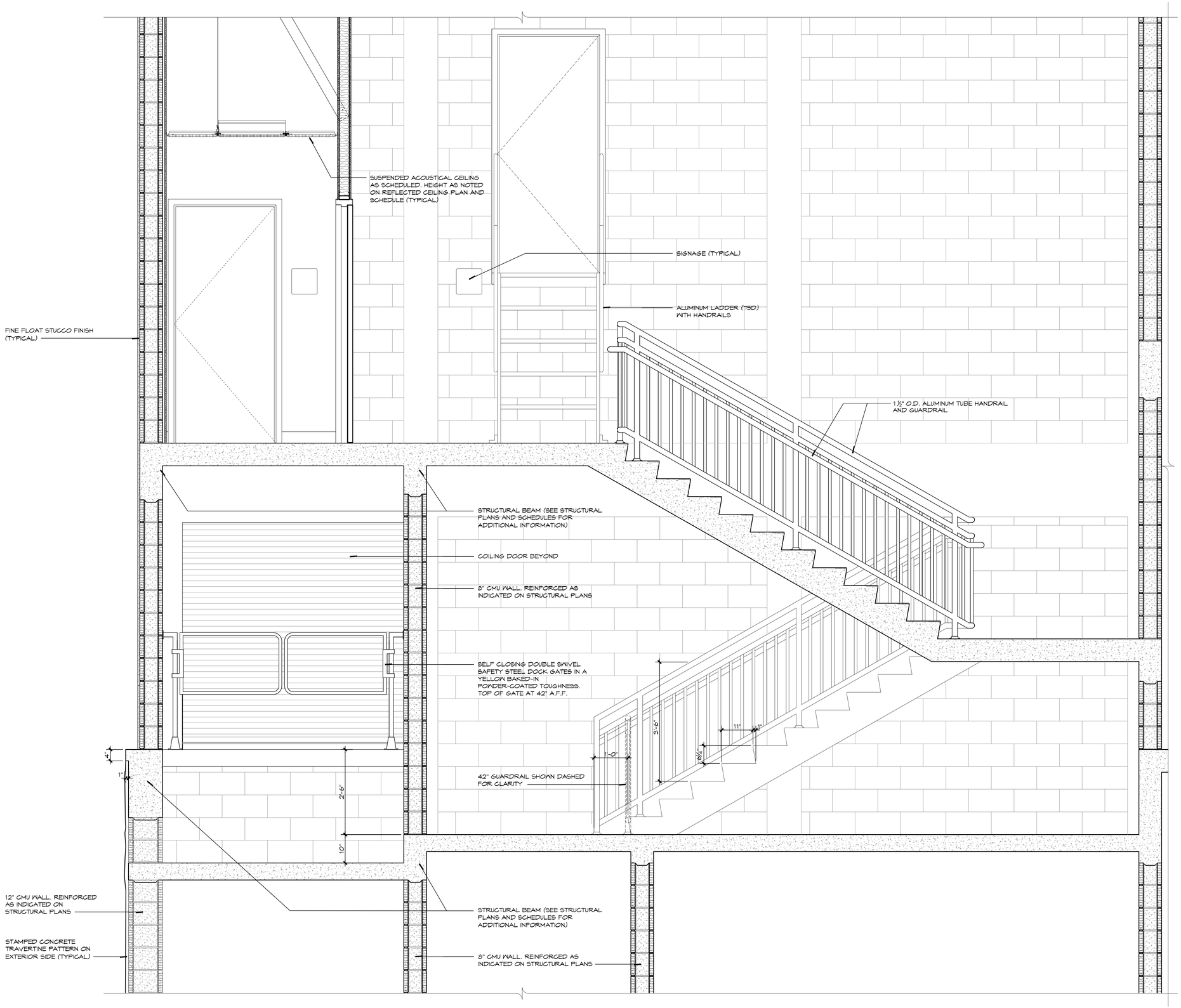
STATE OF FLORIDA
FELIX A. ROSABAL JR.
REGISTERED ARCHITECT
Tomas Rosabal, A.I.A., LEED AP
Florida Registered Architect #AR0014717

sheet number
A10.5

sheet:
of



A SECTION 3/4"=1'-0"
A10.6

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FLORIDA LICENSED ARCHITECT AR 0014717

sheet number
A10.6

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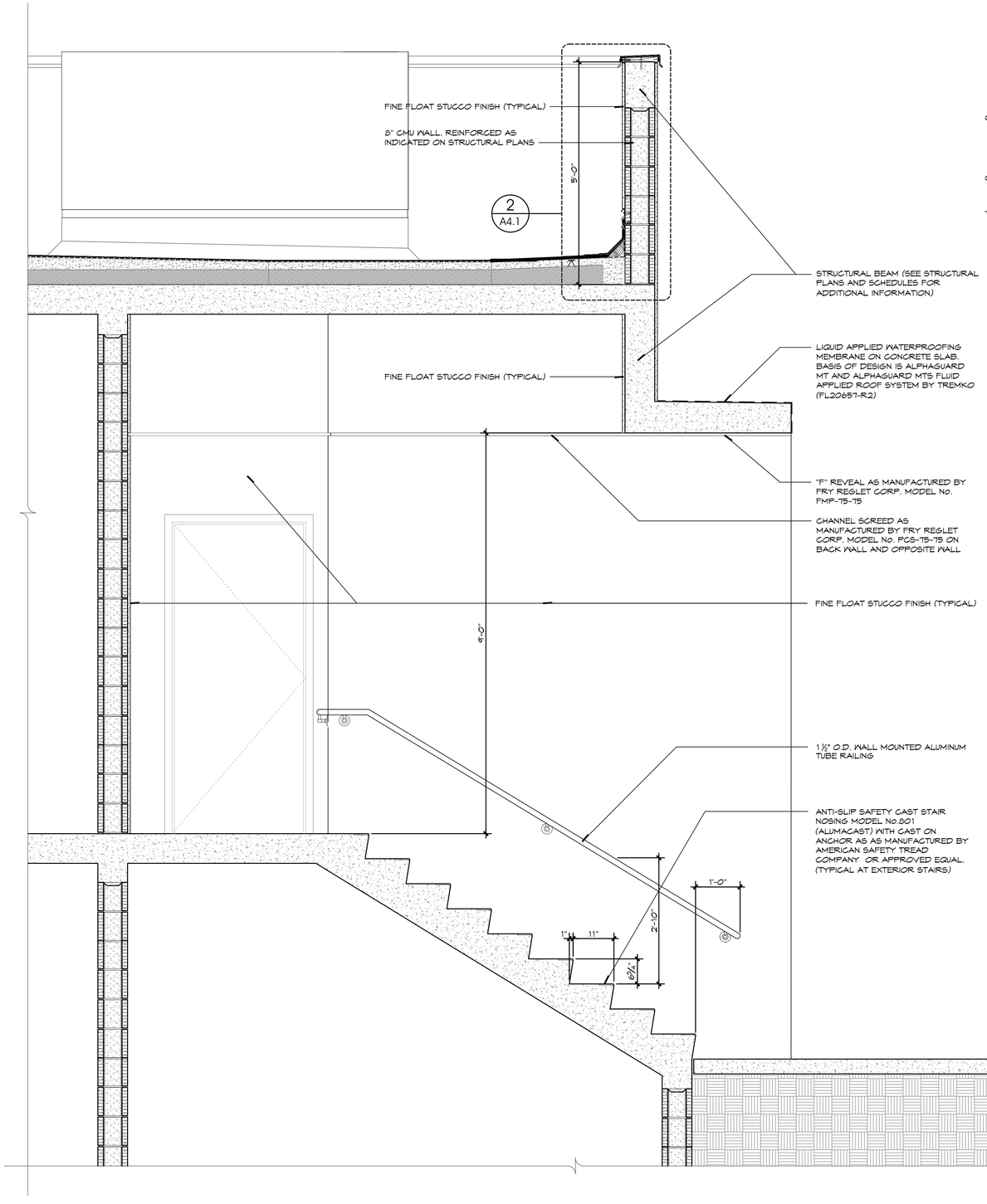
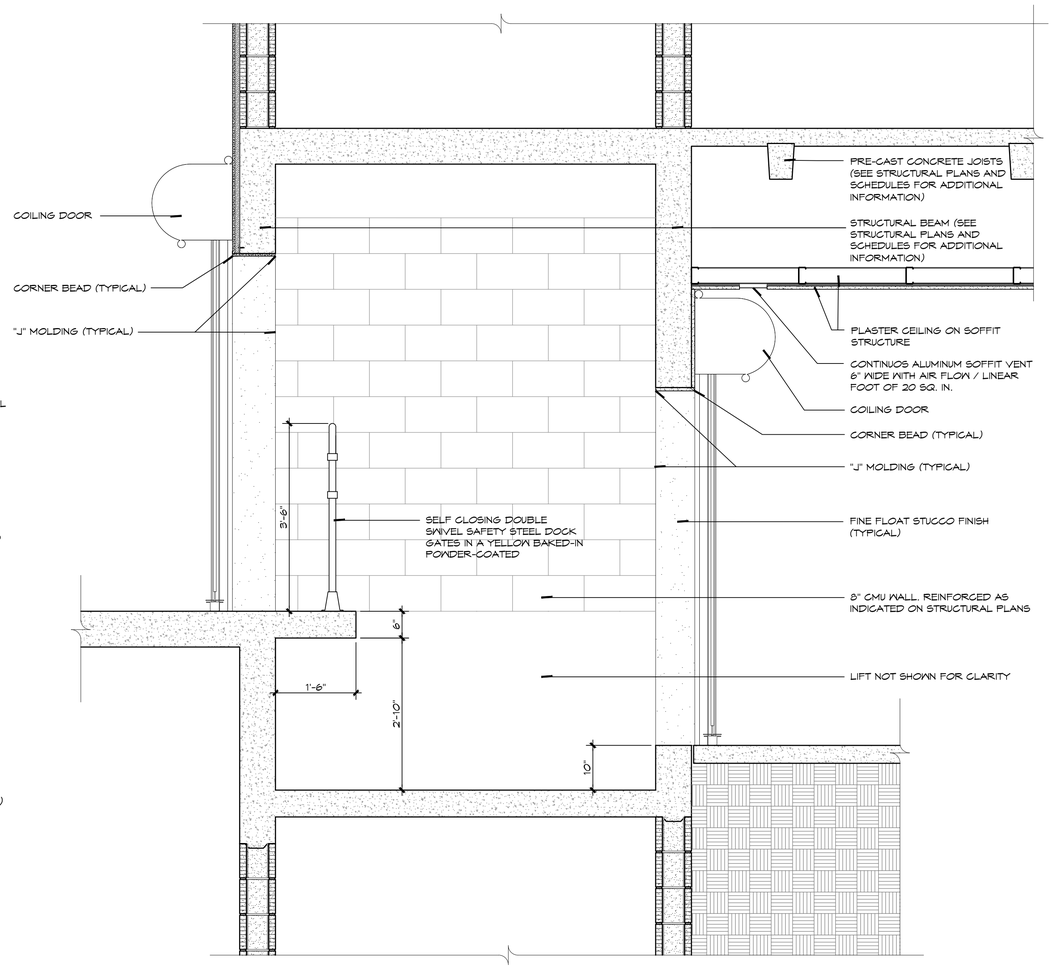
of



B A10.7 SECTION 3/4"=1'-0"



A A10.7 SECTION 3/4"=1'-0"

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Florida Registered Architect #14717

sheet number
A10.7

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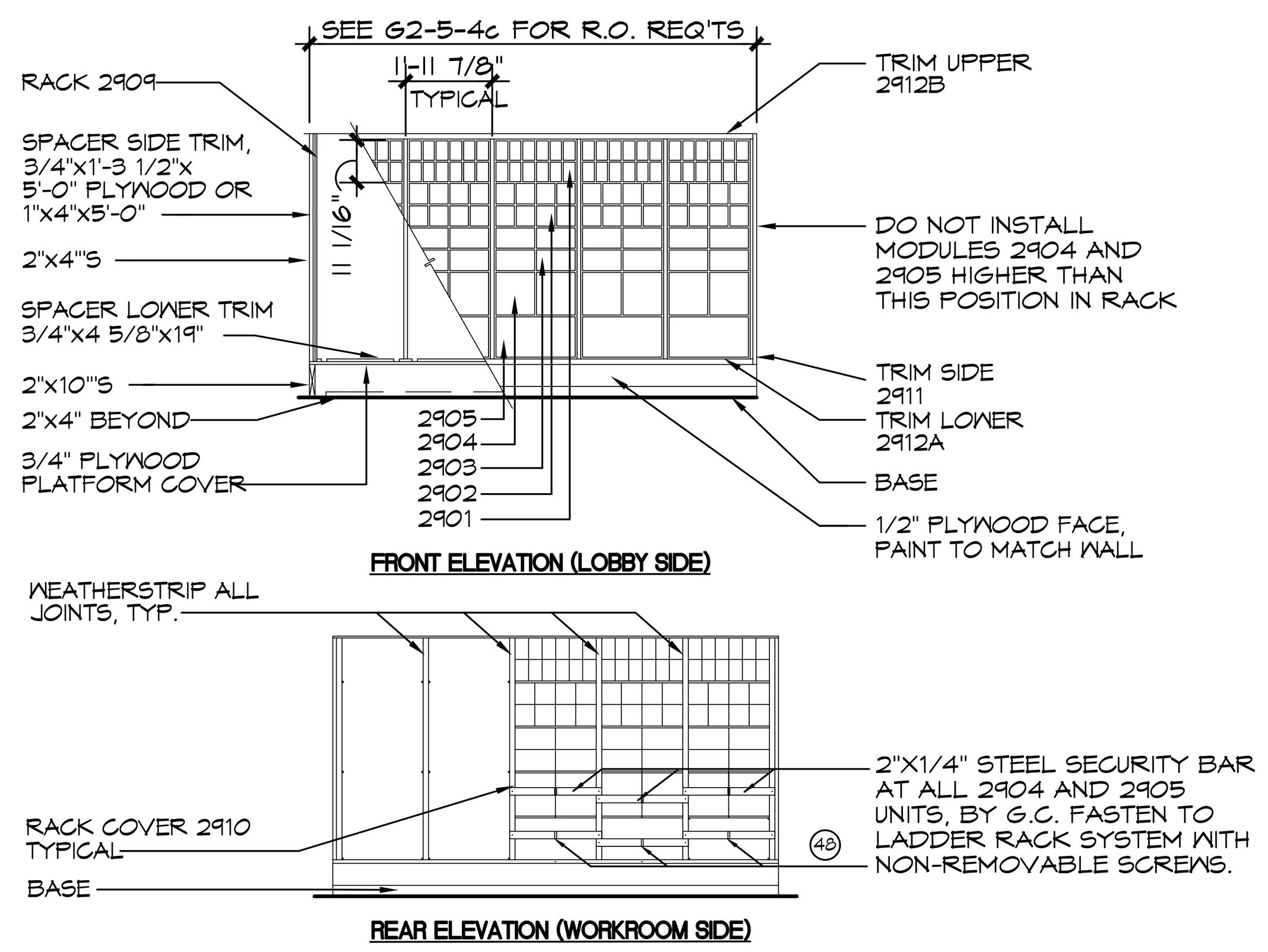
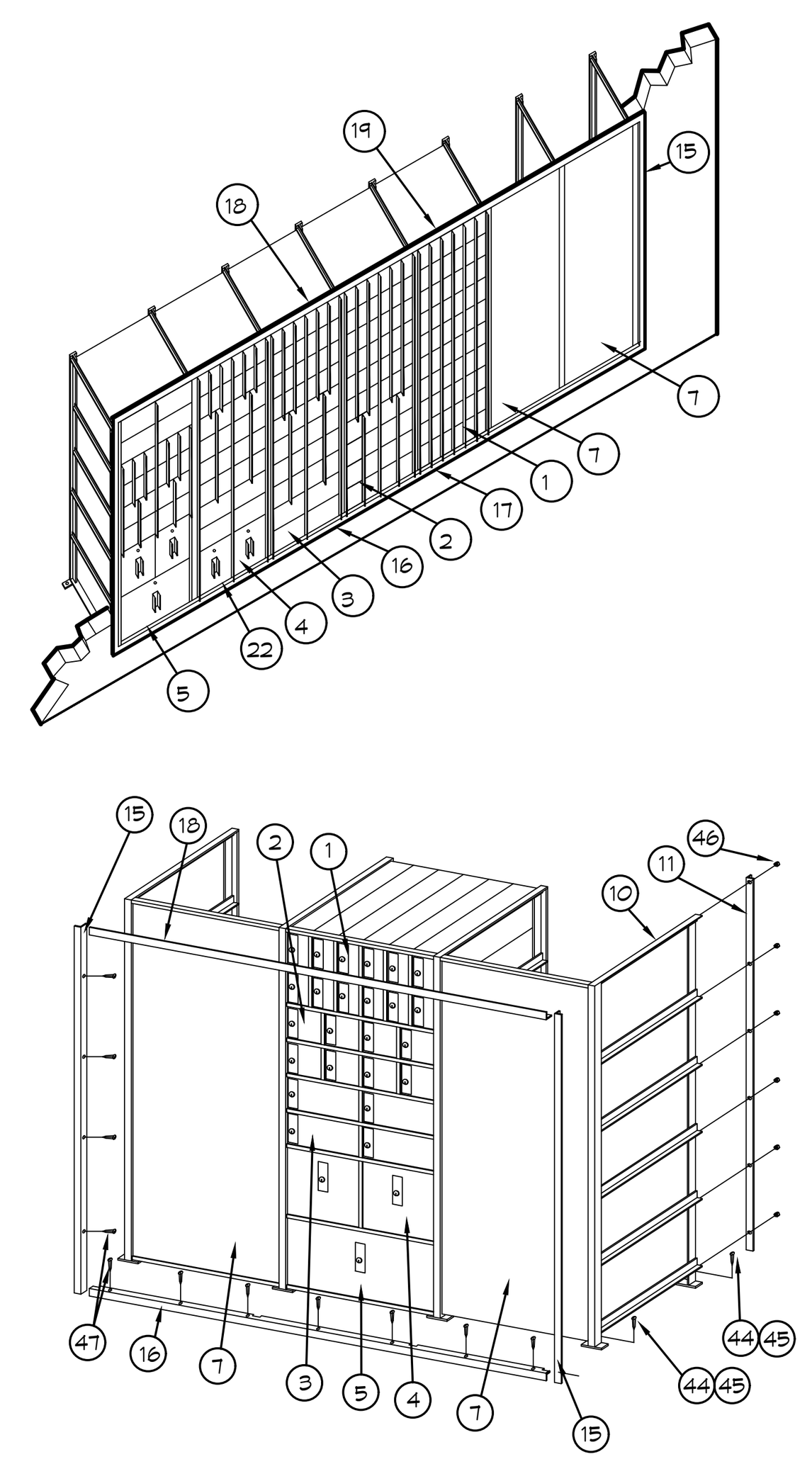
of

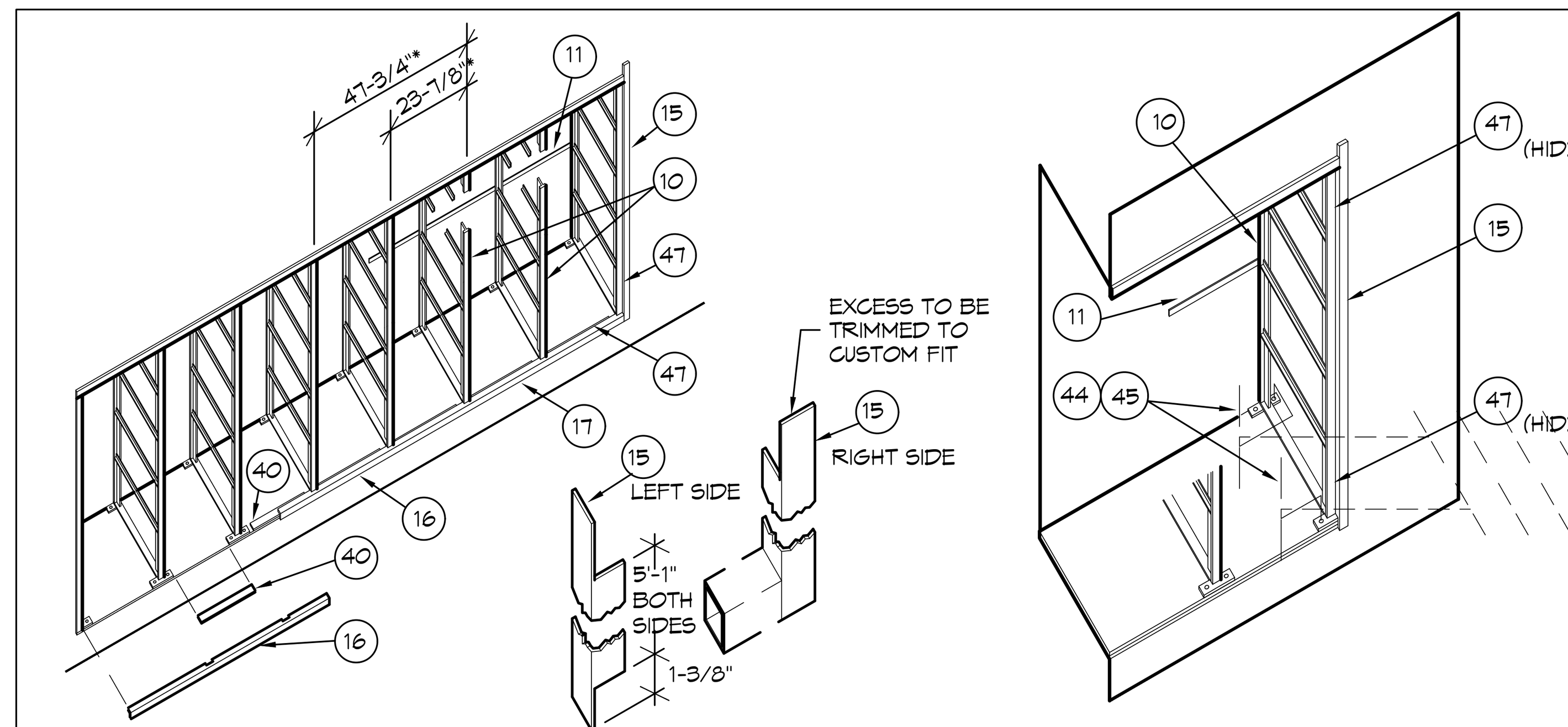


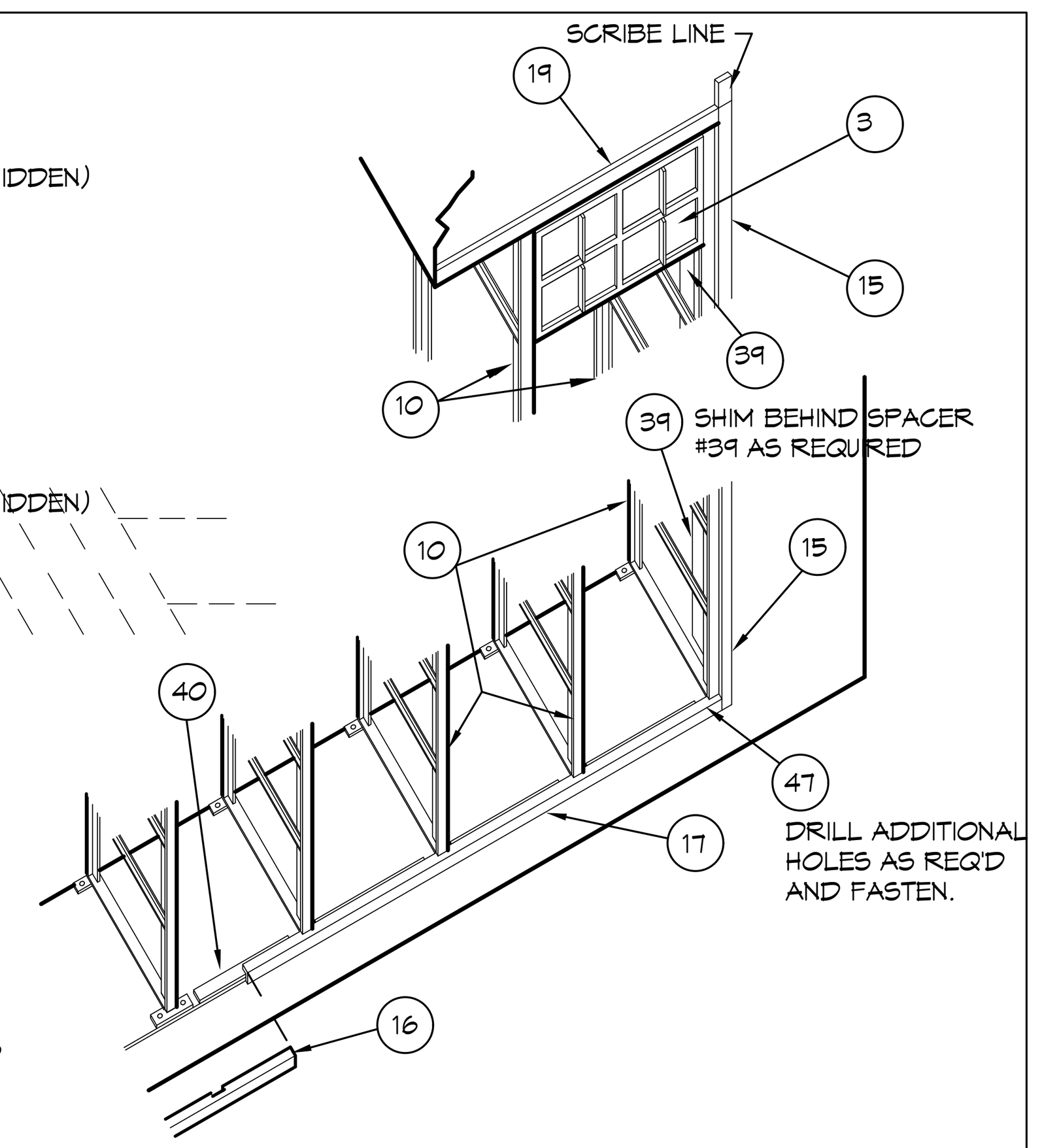


NOTES:

1. VERIFY ACTUAL REQUIRED LAYOUT OF P.O. BOX MODULES WITH USPS PRIOR TO INSTALLATION, TYP.
2. PART NUMBERS SHOWN ON THIS DRAWING ARE ITEMIZED IN A TABLE ON DETAIL G2-5-4c.
3. P.O. BOX NUMBERS FOR EACH INDIVIDUAL P.O. BOX ARE PROVIDED BY USPS, BUT INSTALLED BY G.C.
4. 2905 BOX MODULES TO BE RELOCATED FROM EXISTING FACILITY TO NEW FACILITY.

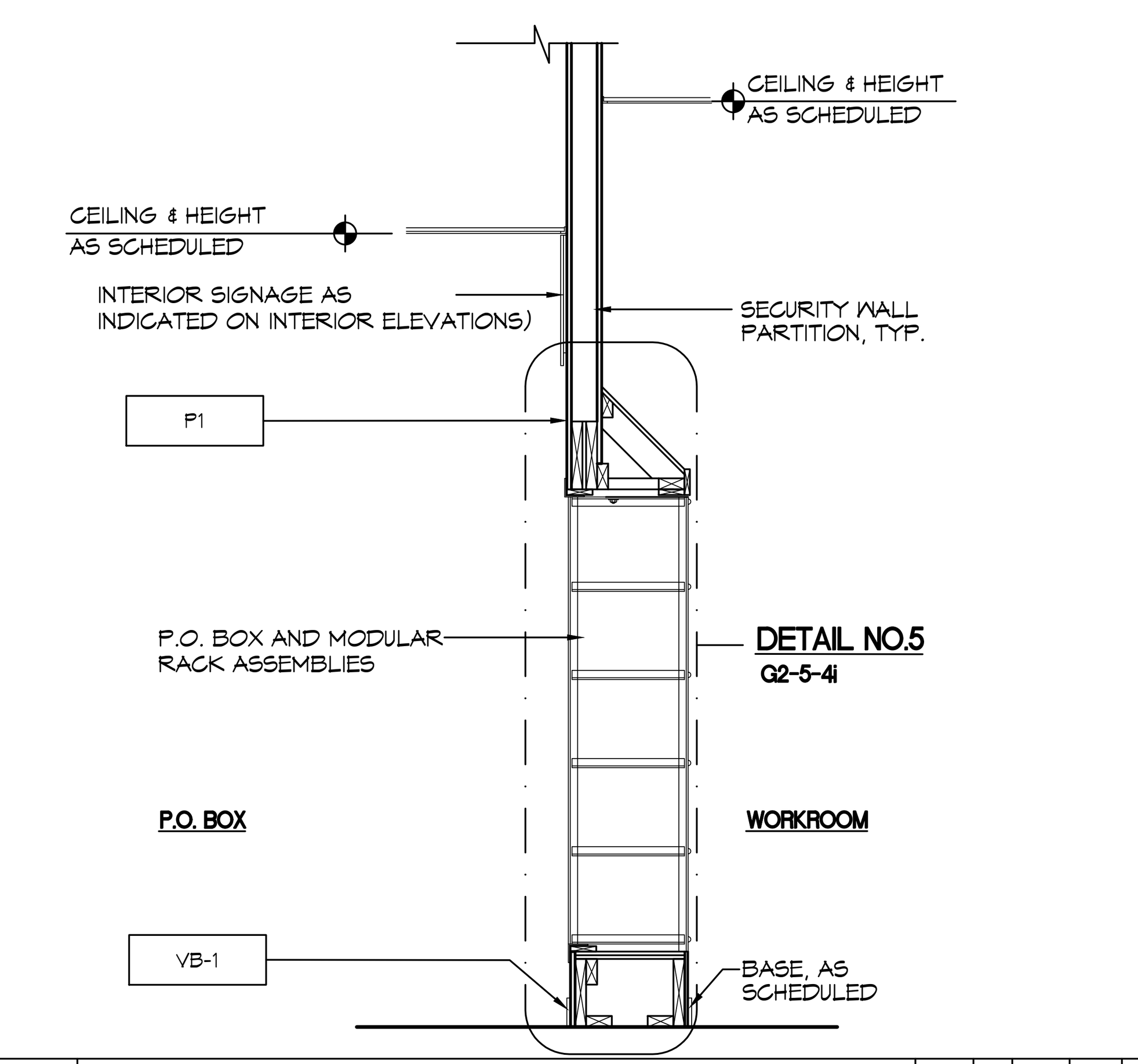
1 Detail: P.O. BOX - TYPICAL ELEVATIONS @ P.O. BOXES — G2-5-4 a
CAD File: ..\usps\library\details\G2-5-4a.dwg — Scale: 1/4" = 1'-0" — USPS SDL Issued: 10/1/2020 — Last Revised: 7/24/2020



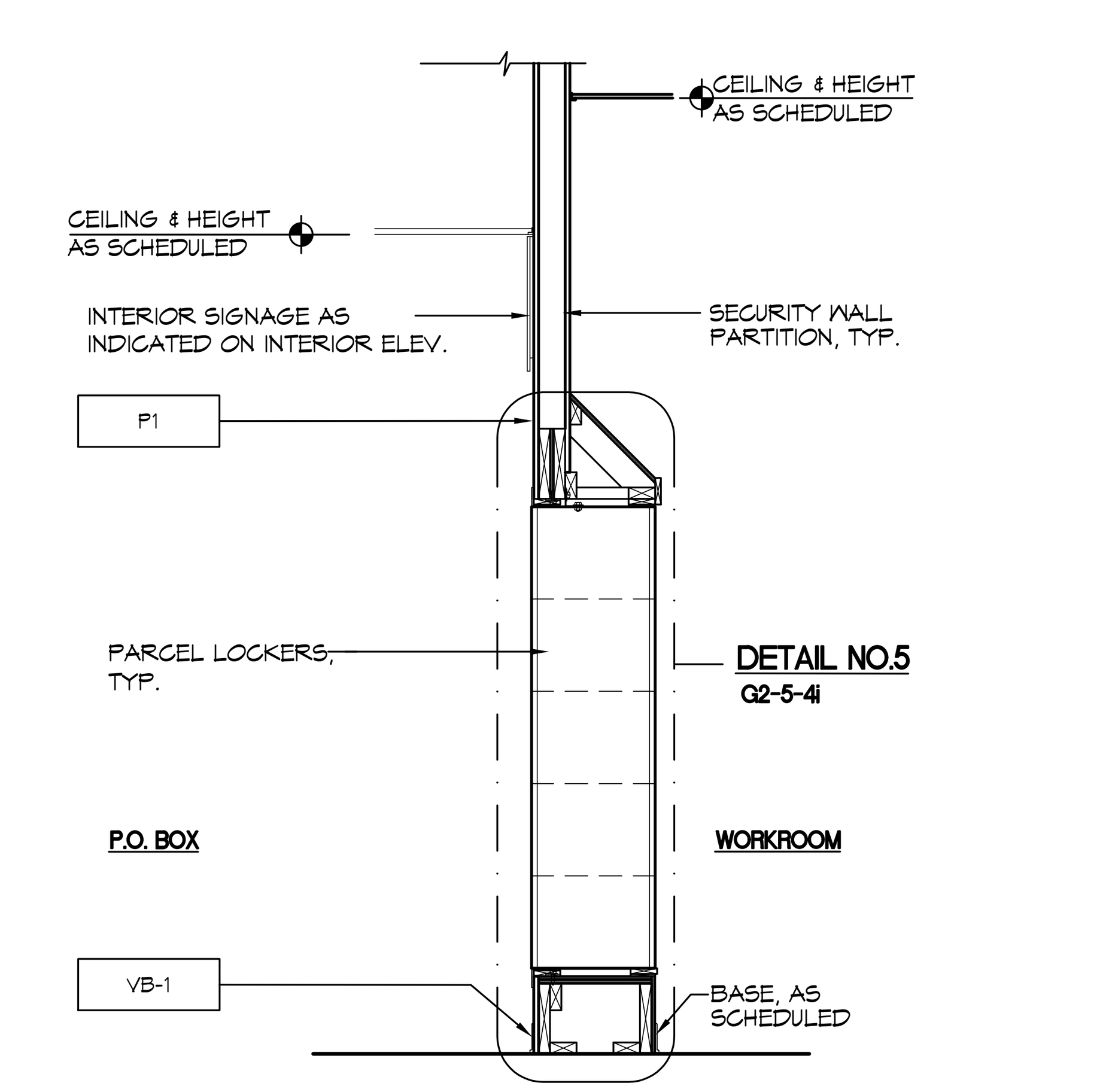


STEP 1: FIELD CUT RIGHT AND LEFT SIDE TRIM #15 LEAVING EXCESS ON TOP AS SHOWN (TYPICAL BOTH SIDES).
STEP 2: BEFORE FINAL ASSEMBLY OF RACK COVER #11, IT WILL BE USED AS A TOOL TO LOCATE RACKS #10. RACK COVER #11 TO BE IN HORIZONTAL POSITION HELD ON THE EXISTING STUDS OF RACK #10. RACKS #10 WILL THEN BE LOCATED 23-7/8" CL TO CL, @ EQUAL SPACES USING HOLES IN RACK COVER #11 AS SHOWN BY DIMS MARKED *. TRIM STRIPS #16 & #17 CAN BE USED TO LOCATE FRONT OF RACKS.
STEP 3: STARTING ON RIGHT HAND SIDE, TEMPORARILY INSTALL SIDE TRIM #15, USING (2) FLAT HEAD SCREWS #47, PLACE RACK #10 AGAINST SIDE TRIM #15, MARK MOUNTING HOLES, REMOVE RACK, DRILL HOLES AND TEMPORARILY INSTALL RACK #10 USING LAG SCREWS #44, AND FLAT WASHERS #45
STEP 4: USING RACK COVER #11 AS A SPACING TOOL TO POSITION REAR OF REMAINING RACKS, MARK HOLES, DRILL, AND INSTALL USING (4) LAG SCREWS #44, AND FLAT WASHERS #45
STEP 5: INSTALL SPACERS #40, AND INSTALL RIGHT HAND LOWER TRIM #17 FITTING FLUSH AGAINST SIDE TRIM #15.
STEP 6: INSTALL LEFT SIDE TRIM #15 AGAINST LEFT MOST RACK #10. SHIM-UP SPACER #39 AS REQUIRED.
STEP 7: INSTALL LEFT LOWER TRIM #16 FOR A FLUSH FIT
STEP 8: INSTALL R.H. UPPER TRIM #19, SHIM AS REQUIRED FOR A TIGHT FIT AGAINST TOP OF RACKS #10. INSTALL L.H. UPPER TRIM #18 USING SAME PROCEDURE. SCRIBE LINE FOR CUTTING EXCESS FROM RIGHT AND LEFT SIDE TRIM #15.
STEP 9: REMOVE STARTING AND FINAL RACK #10, REMOVE SIDE TRIM (BOTH SIDES) #15. CUT OFF EXCESS FROM SIDE TRIM AS MARKED BY SCRIBE LINE.
STEP 10: REPLACE AND PERMANENTLY SECURE SIDE TRIM #15 (BOTH SIDES) STARTING AND FINAL RACKS #10, AND SECURE ALL TEMPORARY INSTALLATIONS.

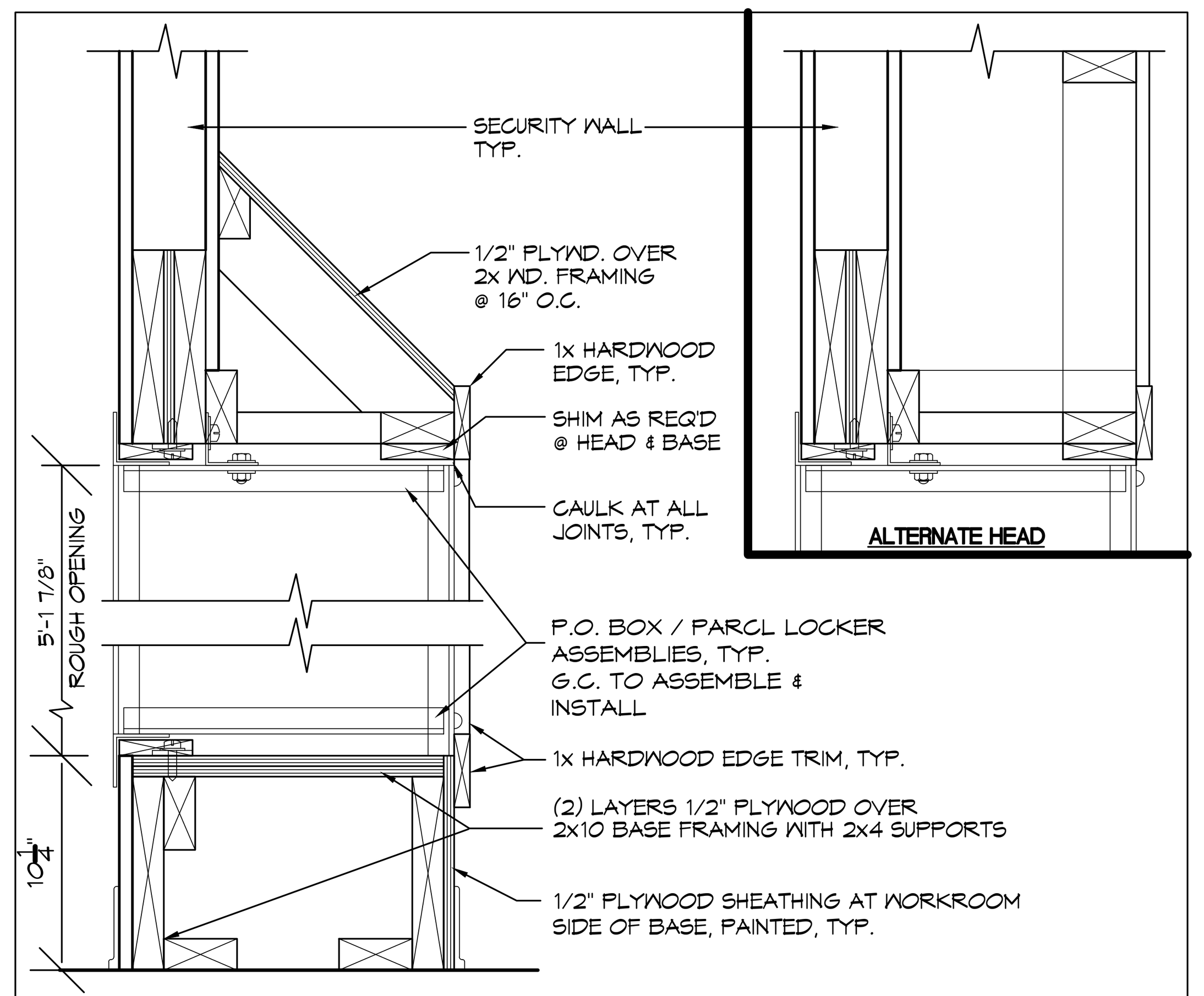
2 Detail: P.O. BOX - P.O. BOX ASSEMBLY INSTRUCTIONS — G2-5-4 b
CAD File: ..\usps\library\details\G2-5-4b.dwg — Scale: NA — USPS SDL Issued: 10/1/2020 — Last Revised: 12/17/2008



3 Detail: P.O. BOX - SECTION @ P.O. BOXES — G2-5-4 e2
CAD File: ..\usps\library\details\G2-5-4e2.dwg — Scale: 1/2" = 1'-0" — USPS SDL Issued: 10/1/2020 — Last Revised: 10/1/2015



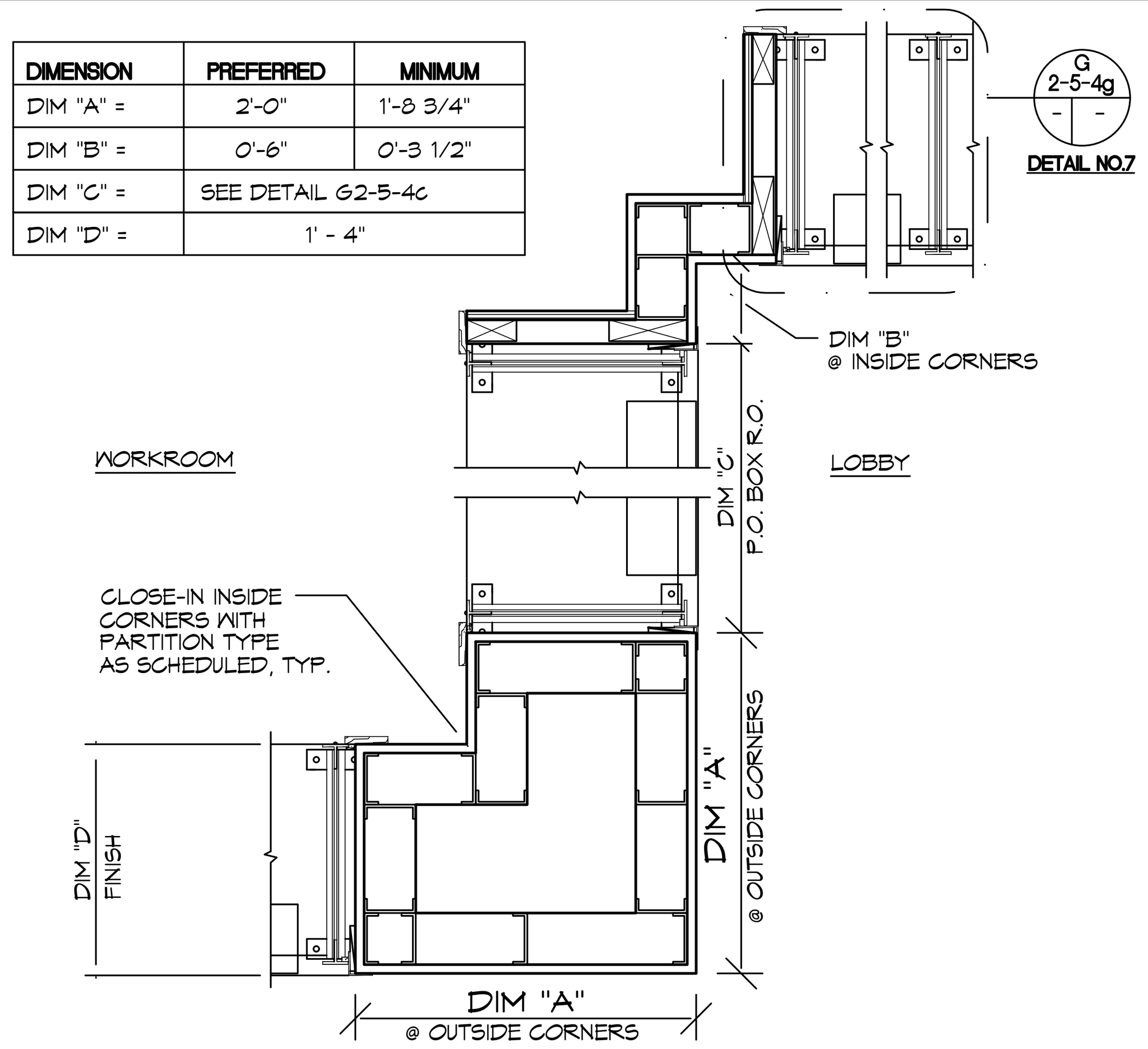
4 Detail: P.O. BOX - SECTION @ PARCEL LOCKERS — G2-5-4 h2
CAD File: ..\usps\library\details\G2-5-4h2.dwg — Scale: 1/2" = 1'-0" — USPS SDL Issued: 10/1/2020 — Last Revised: 12/17/2008



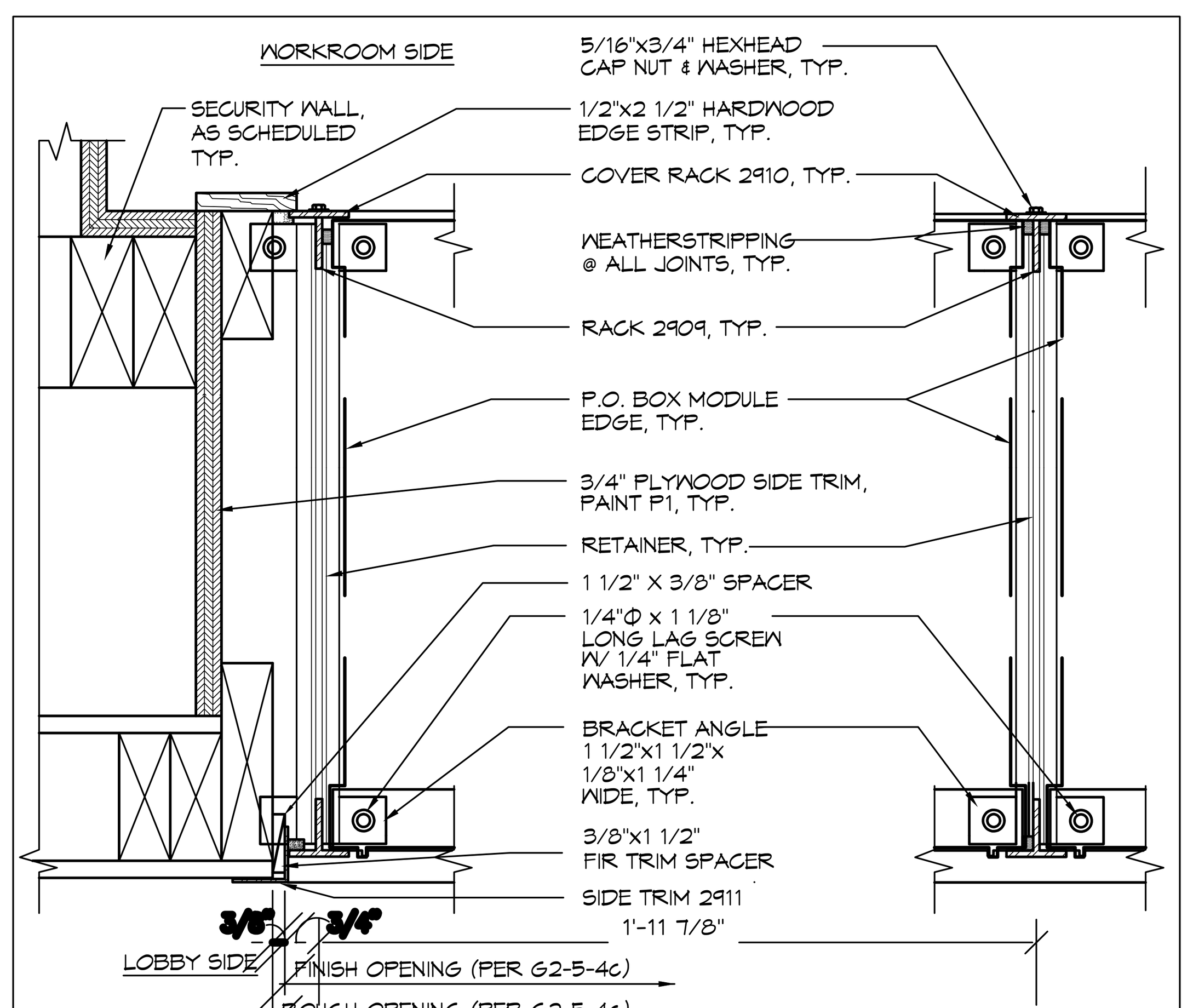
NOTE:
1. EITHER HEAD CONDITION IS ACCEPTABLE FOR CONSTRUCTION.

5 Detail: P.O. BOX - DETAIL @ P.O BOX / PARCEL LOCKER HEAD AND BASE — G2-5-4 i
CAD File: ..\usps\library\details\G2-5-4i.dwg — Scale: 1-1/2" = 1'-0" — USPS SDL Issued: 10/1/2020 — Last Revised: 12/17/2008

DIMENSION	PREFERRED	MINIMUM
DIM "A" =	2'-0"	1'-8 3/4"
DIM "B" =	0'-6"	0'-3 1/2"
DIM "C" =	SEE DETAIL G2-5-4c	
DIM "D" =	1' - 4"	



6 Detail: P.O. BOX - DETAIL @ P.O. BOX ALCOVE-METAL FRAMING — G2-5-4 d
CAD File: ..\usps\library\details\G2-5-4d.dwg — Scale: 1" = 1'-0" — USPS SDL Issued: 10/1/2020 — Last Revised: 12/17/2008



7 Detail: P.O. BOX - DETAIL @ P.O. BOX JAMBS — G2-5-4 g
CAD File: ..\usps\library\details\G2-5-4g.dwg — Scale: 3" = 1'-0" — USPS SDL Issued: 10/1/2020 — Last Revised: 10/1/2015

PARTS LIST

ITEM	NOMENCLATURE	IDEN. NO.
ITEMS PROVIDED BY USPS BUT INSTALLED BY GC		
1.	MODULE NO. 1 ASSEMBLY	2901
2.	MODULE NO. 2 ASSEMBLY	2902
3.	MODULE NO. 3 ASSEMBLY	2903
4.	MODULE NO. 4 ASSEMBLY	2904
5.	MODULE NO. 5 ASSEMBLY	2905
10.	MODULAR RACK ASSEMBLY	2909
11.	RACK COVER	2910
15.	TRIM SIDE	2911
16.	TRIM, L.H. LOWER (17.RH)	2912-A
18.	TRIM, L.H. UPPER (19.RH)	2912-B
22.	NUMBER	2913
ITEMS FURNISHED & INSTALLED BY GC		
7.	BLANK PANEL (SEE G2-5-4g1 FOR MORE INFO.)	
39.	SPACER, SIDE TRIM 3/8" x 1-1/2" FIR	
40.	SPACER, PLYWOOD 3/4" x 4" x 16"	
44.	LAG SCREW, 1/4 x 1-1/8 INCH LONG	
45.	WASHER, FLAT, 1/4" I.D.	
46.	HEXHEAD CAP NUT* 5/16" x 3/4" JC-24-T	
47.	SCREW, PAN HEAD, # 8 x 5/8" LG	
48.	STEEL SECURITY BARS @ EA. 2904 AND 2905 UNIT	

* NUTS TAPPED & THREADED TO RECEIVE STUD BOLTS W/ WASHERS AS REQUIRED.

PANEL OPENINGS

SCHEDULE OF PANEL OPENINGS		
NO. OF PANELS	FINISHED OPG.	ROUGH OPG.
1	2'-1 3/8"	2'-2 1/8"
2	4'-1 1/4"	4'-2"
3	6'-1 1/8"	6'-1 7/8"
4	8'-1"	8'-1 3/4"
5	10'-0 7/8"	10'-1 5/8"
6	12'-0 3/4"	12'-1 1/2"
7	14'-0 5/8"	14'-1 3/8"
8 **	16'-0 1/2"	16'-1 1/4"

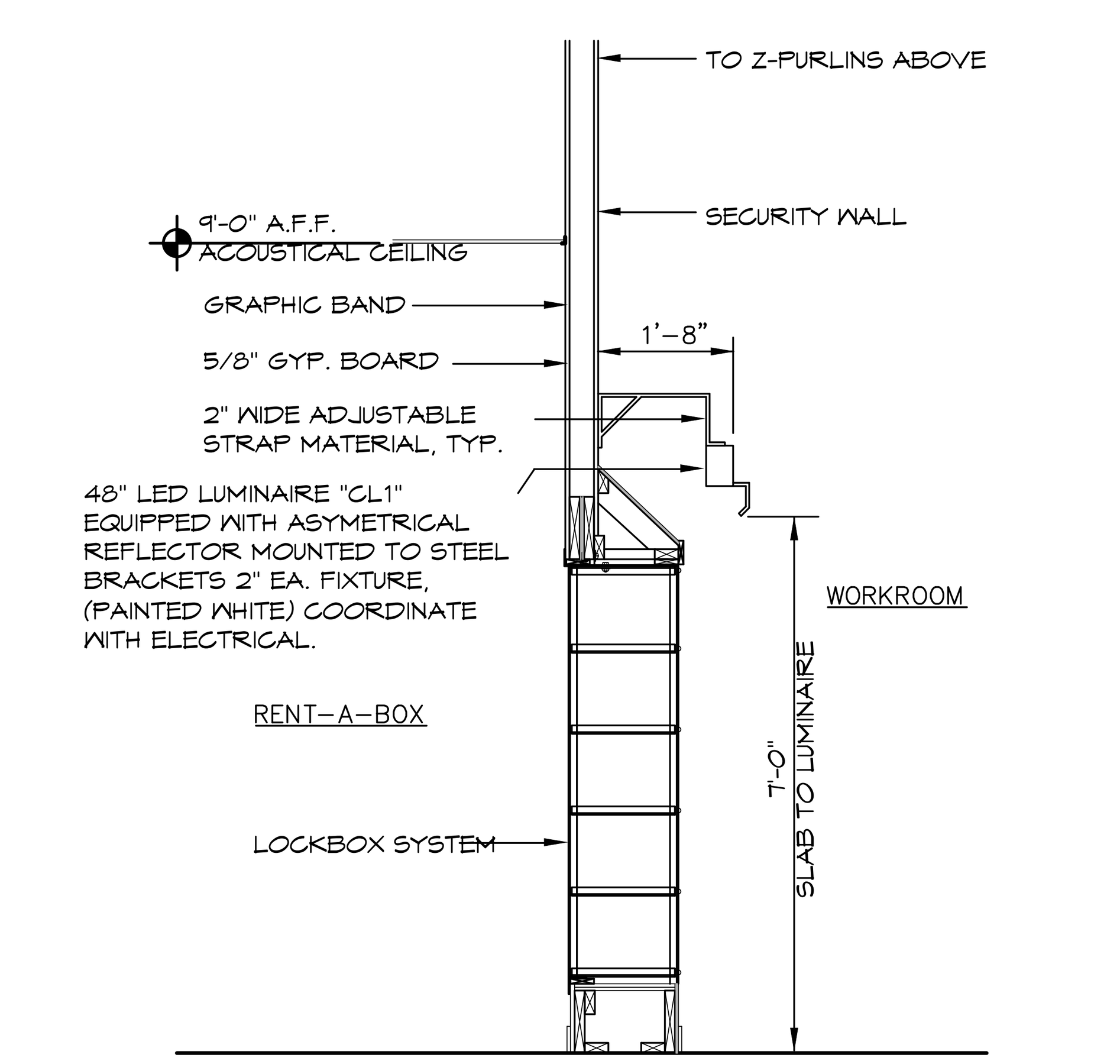
** RECOMMENDED MAXIMUM RUN OF UNINTERRUPTED PANELS (PANELS IN A ROW GREATER THAN 8 REQUIRE AN ADDITIONAL 1'-11 7/8" R.O. EACH.)

UNINTERUPTED RUNS OF P.O. BOXES EXCEED 8 PANELS SHALL RECEIVE APPROPRIATE ADDITIONAL STRUCTURAL SUPPORT, AS REQUIRED.

NOTES:

1. ASSEMBLE AND INSTALL ALL USPS PROVIDED P.O. BOX MODULES, RACK ASSEMBLIES AND TRIM ANGLES.
2. INSTALL STACKS OF UP TO 5 P.O. BOX MODULES IN EACH SET OF RACKS PROVIDED BY USPS.
3. THE TRIM, 2900 SERIES, IS FURNISHED IN 8'-0" LENGTHS AND MUST BE CUT AND MITERED BY THE GC TO FIT THE UNIT FRAMES AND PROVIDE FLUSH JOINTS. SCREWS USED SHALL MATCH THE COLOR OF THE TRIM.
4. GC SHALL FURNISH ALL SCREWS, BOLTS, WASHERS, AND NUTS AS REQUIRED.
5. GC SHALL VERIFY THE DIMENSIONS OF THE WALL OPENINGS AND EQUIPMENT PRIOR TO ASSEMBLY AND INSTALLATION, AND SHALL INSTALL THE P.O. BOX RACKS LEVEL AND PLUMB BY USE OF SHIMS AS NECESSARY.
6. ALL P.O.BOX PANELS AND ASSEMBLIES SHALL BE INSTALLED TO ENSURE LIGHT-PROOF JOINTS AT THE INTERSECTIONS OF COMPONENT PARTS WITH BLACK WEATHERSTRIPPING (5/16" THICK x 3/8" WIDE WITH FABRIC IMPREGNATED BACK AND PRESSURE SENSITIVE ADHESIVE ON ONE SURFACE)
7. ALL EDGES AND ADJACENT SURFACES OF PARTS THAT ARE FIELD CUT MUST BE PATCHED AND TOUCHED UP WITH PAINT.
8. GC SHALL INSTALL ALL P.O. BOX NUMBERS AND LETTER DROP SIGNS.
9. PLYWOOD USED TO BE A-B INT-APA GRADE OR BETTER AND ALL EXPOSED EDGES TO HAVE SOLID HARDWOOD EDGE BANDING.
10. P.O. BOXES, 2900 SERIES, TO BE FACTORY FINISHED SILVER.
11. PARCEL LOCKERS SHALL BE 5'-0" HIGH, SO THE VERTICAL R.O. IS THE SAME AS FOR THE P.O. BOXES.
12. 2905 BOX MODULES ARE NO LONGER AVAILABLE. GC TO RELOCATE NO. 5 BOX MODULES FROM EXISTING FACILITY TO NEW FACILITY.

8 Detail: P.O. BOX - P.O. BOX PARTS LIST, SCHEDULE AND NOTES — G2-5-4 c
CAD File: ..\usps\library\details\G2-5-4c.dwg — Scale: NA — USPS SDL Issued: 10/01/2020 — Last Revised: 07/15/2020



9 Detail: RENT-A-BOX LIGHT BRACKET - DETAIL — G2-5-4 m
CAD File: \12 standard details\details\G2-5-4m.dwg — Scale: NONE — USPS SDL Issued: 10/1/2020 — Last Revised: 8/21/2019

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consultant:

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600 W Ocean Dr . Key Colony . Florida 33051

LIVS project number: 201913

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sheet title: POST OFFICE DETAILS

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drawn by: LAC — approved by: FAR

scale: AS INDICATED

seal

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sheet number: **A14.0**

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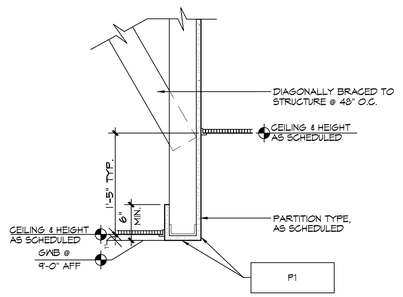
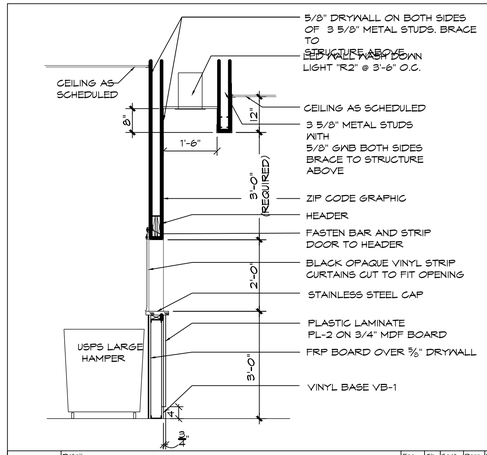
of



13 Detail: RETAIL STANDARD DESIGNS - DETAIL • CEILING DROP

Fac. | Ch. | Sect. | Para. | Detail: G2-5-1b

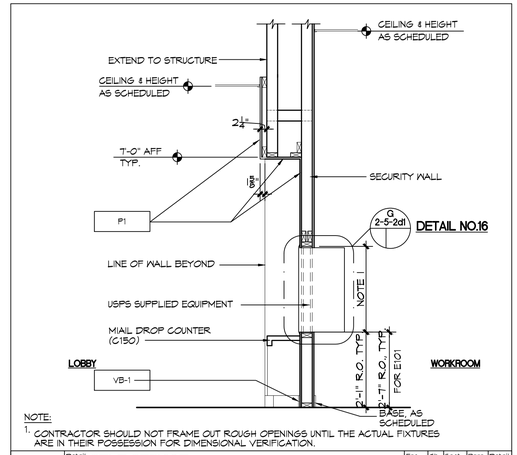
CAD File: ..\uspe\library\details\G2-5-1b.dwg | Scale: 1" = 1'-0" | 0 1/2" 1" | USPS SDL Issued: 10/1/2020 | Last Revised: 12/17/2008



14 Detail: SECTION • SCREENLINE

Fac. | Ch. | Sect. | Para. | Detail: G2-5-5e4

CAD File: ..\uspe\library\details\G2-5-5e4.dwg | Scale: 1/2"=1'-0" | 0 1/2" 1" | USPS SDL Issued: 10/1/2020 | Last Revised: 9/8/2014

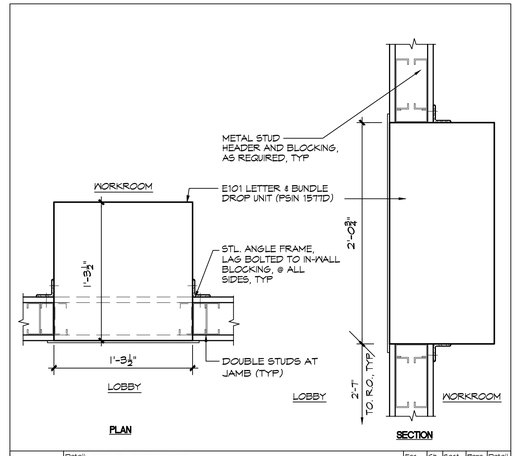


NOTE:
1. CONTRACTOR SHOULD NOT FRAME OUT ROUGH OPENINGS UNTIL THE ACTUAL FIXTURES ARE IN THEIR POSSESSION FOR DIMENSIONAL VERIFICATION.

15 Detail: SELF SERVICE - WALL SECTION • SELF SERVICE

Fac. | Ch. | Sect. | Para. | Detail: G2-5-2a1

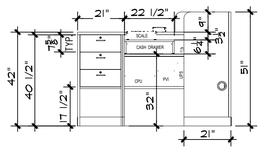
CAD File: ..\uspe\library\details\G2-5-2a1.dwg | Scale: 1/2" = 1'-0" | 0 1/2" 1" | USPS SDL Issued: 10/1/2020 | Last Revised: 6/17/2013



16 Detail: SELF SERVICE - DETAIL • LETTER DROP-METAL FRAMING

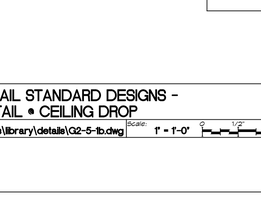
Fac. | Ch. | Sect. | Para. | Detail: G2-5-2d

CAD File: ..\uspe\library\details\G2-5-2d.dwg | Scale: 1-1/2" = 1'-0" | 0 1/2" 1" | USPS SDL Issued: 10/1/2020 | Last Revised: 6/7/2017



REAR ELEVATION

PLAN VIEW



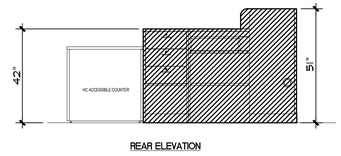
ISOMETRIC VIEW

NOTE:
1. THE CONTRACTOR IS TO PURCHASE, UNLOAD, ASSEMBLE, AND INSTALL WORKSTATIONS.
2. EQUIPMENT SHOWN IS FOR INFORMATION PURPOSES ONLY. POS EQUIPMENT IS N.I.C.

22 Detail: FULL SERVICE STANDARD FULL SERVICE COUNTER (E401)

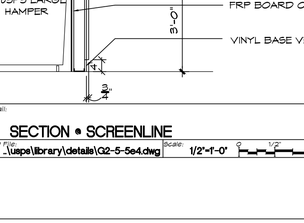
Fac. | Ch. | Sect. | Para. | Detail: G2-5-5a

CAD File: ..\uspe\library\details\G2-5-5a.dwg | Scale: 3/8" = 1'-0" | 0 1/2" 1" | USPS SDL Issued: 10/1/2020 | Last Revised: 7/20/2010



REAR ELEVATION

PLAN VIEW



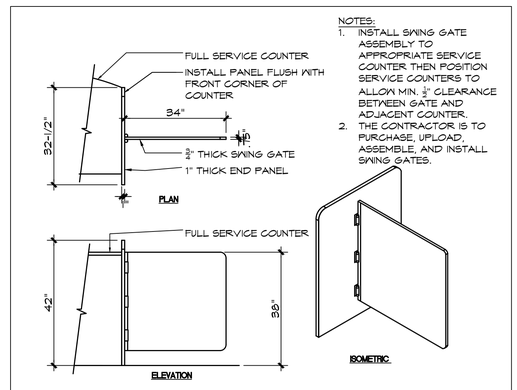
ISOMETRIC VIEW

NOTE:
1. THE CONTRACTOR IS TO PURCHASE, UNLOAD, ASSEMBLE, AND INSTALL WORKSTATIONS.
2. EQUIPMENT SHOWN IS FOR INFORMATION PURPOSES ONLY. POS EQUIPMENT IS N.I.C.

23 Detail: FULL SERVICE - COUNTER ADD-ON ACCESSIBLE COUNTER 'A'

Fac. | Ch. | Sect. | Para. | Detail: G2-5-5a1

CAD File: ..\uspe\library\details\G2-5-5a1.dwg | Scale: 3/8" = 1'-0" | 0 1/2" 1" | USPS SDL Issued: 10/1/2020 | Last Revised: 05/30/2011



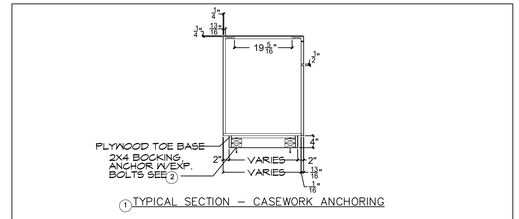
NOTES:
1. INSTALL SWING GATE ASSEMBLY TO APPROPRIATE SERVICE COUNTER THEN POSITION SERVICE COUNTERS TO ALLOW MIN. ½" CLEARANCE BETWEEN GATE AND ADJACENT COUNTER.
2. THE CONTRACTOR IS TO PURCHASE, UPLOAD, ASSEMBLE, AND INSTALL SWING GATES.

G730- SWING GATE ASSEMBLY
Weight- 40 lb. 35"w x 32-5/8"d x 42" h

24 Detail: FULL SERVICE SWING GATE ASSEMBLY

Fac. | Ch. | Sect. | Para. | Detail: G2-5-5a7

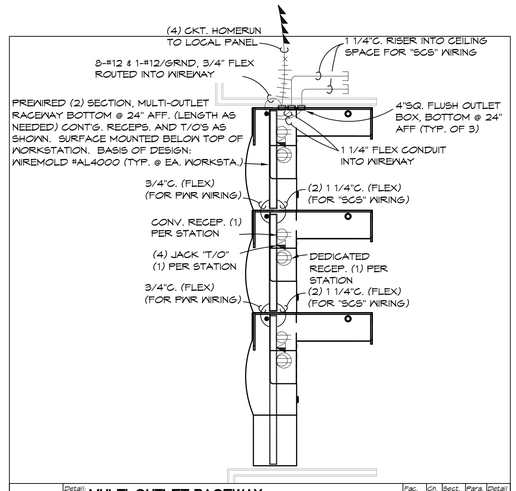
CAD File: ..\uspe\library\details\G2-5-5a7.dwg | Scale: 1/2"=1'-0" | 0 1/2" 1" | USPS SDL Issued: 10/1/2020 | Last Revised: 10/1/2015



26 Detail: RETAIL STANDARD DESIGNS- TYPICAL CASEWORK ANCHORING DETAILS

Fac. | Ch. | Sect. | Para. | Detail: G2-5-1f4

CAD File: ..\uspe\library\details\G2-5-1f4.dwg | Scale: NTS | 0 1/2" 1" | USPS SDL Issued: 10/1/2020 | Last Revised: 5/20/2010



25 Detail: MULTI-OUTLET RACEWAY - FULL SERVICE WORKSTATION

Fac. | Ch. | Sect. | Para. | Detail: G5-2-8a

CAD File: \uspe\library\details\G5-2-8a.dwg | Scale: 1/4"=1'-0" | 0 1/2" 1" | USPS SDL Issued: 10/1/2020 | Last Revised: 8/10/2020

USPS CASEWORK UNITS REQUIRING GC FURNISHED WASTE/RECYCLE INSERTS

UNIT #	DESCRIPTION	MAXIMUM INSERT CONTAINER DIMENSIONS (LxWxH)	CONTAINER BRAND	CONTAINER MODEL # (LxWxH)
CS10	WRITING DESK/STORAGE/RECYCLE	27"x23"x24"	RUBBERMAID	FG356100GRAY 18"x18"x29"
CS12	FORM STORAGE UNIT	27"x23"x27"	RUBBERMAID	FG3HB600GRAY 14"x14"x27"
CS13	RECYCLE UNIT	27"x23"x30"	RUBBERMAID	FG356100GRAY 18"x18"x29"
CS14	NON-RECYCLABLE WASTE UNIT	27"x23"x30"	RUBBERMAID	FG356100GRAY 18"x18"x29"
CS21	BASE CABINET W/RECYCLE & WRITE	14"x23"x31"	RUBBERMAID	FGLR14 0"x17"x27"
CS27	BASE CABINET/RECYCLE & WRITE, UNFINISHED BACK	14"x23"x31"	RUBBERMAID	FGLR14 0"x17"x27"
CS46	FORMS COUNTER CABINET/RECYCLE	34"x28"x21"	RUBBERMAID	9-1352TBL 15"x11"x20"
CS48	PACK AND SHIP	16"x24"x30"	RUBBERMAID	9-1352TBL 15"x11"x20"
EMEU748	REMORK DESK STORAGE/RECYCLE UNIT	31"x14"x32"	RUBBERMAID	FG356100GRAY 18"x18"x29"
CPU321	BASE CABINET W/RECYCLE & WRITE	14"x23"x31"	RUBBERMAID	FGLR14 0"x17"x27"
CPU327	BASE CABINET/RECYCLE & WRITE, UNFINISHED BACK	14"x23"x31"	RUBBERMAID	FGLR14 0"x17"x27"

27 Detail: RETAIL STANDARD DESIGNS- CASEWORK WASTE/RECYCLE INSERTS

Fac. | Ch. | Sect. | Para. | Detail: G2-5-1f7

CAD File: ..\uspe\library\details\G2-5-1f7.dwg | Scale: NTS | 0 1/2" 1" | USPS SDL Issued: 10/1/2020 | Last Revised: 10/1/2018

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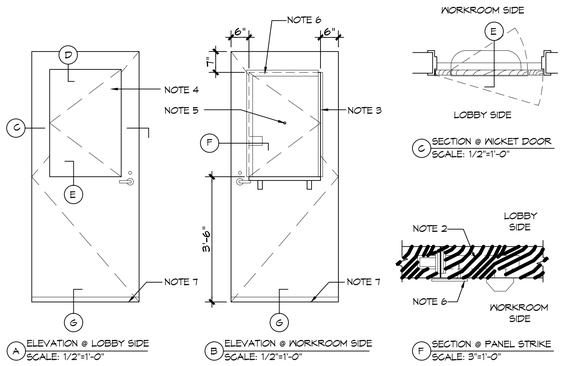
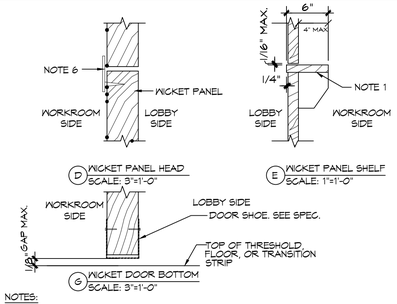
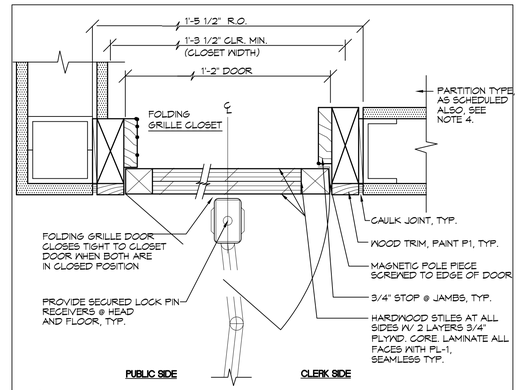
1 of





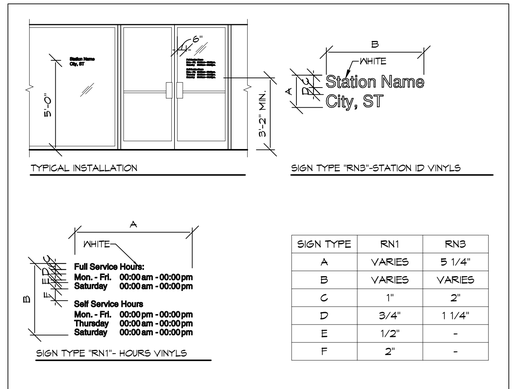
NOTES:
1. PROVIDE HARDWOOD SHELF AND BRACKETS. FINISH SHELF AND EDGES SAME AS DOOR, TYP.
2. PROVIDE DEADBOLT LOCK, WHICH MEETS ANSI A 156.5 GRADE 1. THE 1" THROW DEADBOLT IS OPERATED BY A THUMBTURN ON THE WORKROOM SIDE, ANSI E01911 FUNCTION (WITH NO EXPOSED TRIM ON LOBBY SIDE). INSTALL METAL RECEIVER IN DOOR STILE.
3. PROVIDE CONTINUOUS PIANO HINGE AT WICKET DOOR PANEL.
4. WICKET DOOR PANEL IS THE SAME CONSTRUCTION, THICKNESS, AND FINISH AS DOOR. HINGE OF DOOR AND WICKET PANEL TO BE ON SAME SIDE. VERIFY 'HAND' OF DOOR FROM ACTUAL PLAN LAYOUT.
5. 190° PEEPHOLE VIEWER, 5'-0" AFF, TYP.
6. PROVIDE 1/8" x 2" CONTINUOUS ALUM. PLATE SECURED TO LOCK SIDE OF WICKET PANEL HEAD AND STRIKE SIDE JAMB, TYP.
7. ADJUST DOOR SHOE TO LIMIT GAP UNDER DOOR SHOE TO 1/8" MAX.

34 Detail: DOORS AND HARDWARE - ELEVATIONS AND DETAILS • WICKET DOOR
Fac. G2-7-2b | Cn. | Sect. | Para. | Detail
CAD File: .\Details\G2-7-2b.dwg | Scale: AS NOTED | USPS SDL Issued: 10/1/2020 | Last Revised: 4/15/2011



NOTES:
1. HEAD DETAIL IS SIMILAR TO STRIKE SIDE JAMB.
2. SET DOOR PRIOR TO INSTALLATION OF ADJACENT GYP. BD. FINISHES.
3. FOR SPECIAL HARDWARE REQUIREMENTS, SEE SPECIFICATIONS.
4. SEE FLOOR PLAN FOR ACTUAL WALL CONFIGURATION ADJACENT TO BOTH SIDES OF DOOR.

35 Detail: FULL SERVICE - DETAIL • FOLDING GRILLE POCKET DOOR
Fac. G2-5-5c2 | Cn. | Sect. | Para. | Detail
CAD File: .\uspa\library\details\G2-5-5c2.dwg | Scale: 3" = 1'-0" | USPS SDL Issued: 10/1/2020 | Last Revised: 3/17/2002

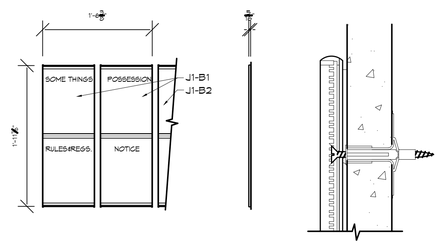


SIGN TYPE	RN1	RN3
A	VARIES	5 1/4"
B	VARIES	VARIES
C	1"	2"
D	3/4"	1 1/4"
E	1/2"	-
F	2"	-

38 Detail: BUILDING IDENTIFICATION VINYLS - STATION ID AND HOURS
Fac. G2-7-5d1 | Cn. | Sect. | Para. | Detail
CAD File: .\uspa\library\details\G2-7-5d1.dwg | Scale: 1"=1'-0" | USPS SDL Issued: 10/1/2020 | Last Revised: 8/17/2017

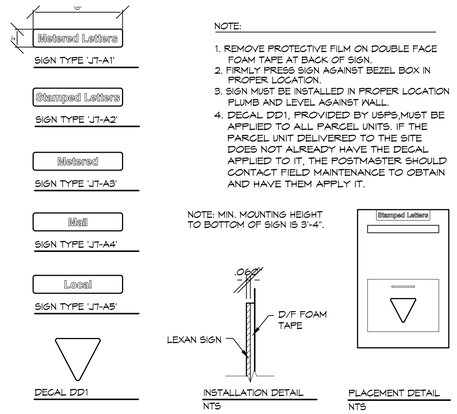
NOTE:

1. USING FRAME TOOL, REMOVE POSTERS AND FRAME LENSES FOR INSTALLATION. PRY WITH SIGN TOOL TO LIFT LENS HOLDER.
2. MARK PILOT HOLE LOCATION ON WALL AS PER LOCATION SPECIFICATION.
3. DRILL PILOT HOLE FOR KNIK-TOG TYPE OR APPROPRIATE FASTENER.
4. REMOVE PROTECTIVE FILM ON DOUBLE FACE FOAM TAPE AT BACK OF SIGN.
5. FASTEN FRAME TO WALL WITH COUNTERSUNK FLATHEAD SCREWS AS REQUIRED INTO FASTENER.
6. REPLACE POSTERS AND LENS ASSEMBLY INTO FRAME. ALL ALUM. EXTRUSIONS SHOULD BE FLUSH WITH FRAME. POSTERS MUST BE RETURNED TO THEIR ORIGINAL ORDER.



SIGN TYPE "J1-B1 & B2" / FRAMES

39 Detail: BUILDING IDENTIFICATION POSTER FRAME INSTALLATION
Fac. G2-7-5n | Cn. | Sect. | Para. | Detail
CAD File: .\uspa\library\details\G2-7-5n.dwg | Scale: 1"=1'-0" | USPS SDL Issued: 10/1/2020 | Last Revised: 8/17/2017



NOTE:

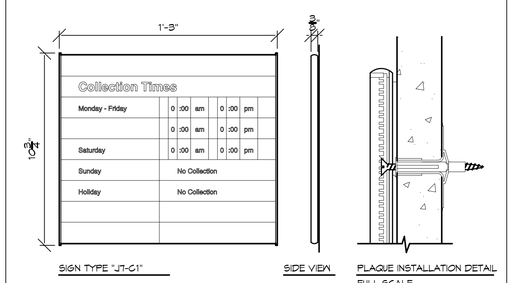
1. REMOVE PROTECTIVE FILM ON DOUBLE FACE FOAM TAPE AT BACK OF SIGN.
2. FIRMLY PRESS SIGN AGAINST BEZEL BOX IN PROPER LOCATION.
3. SIGN MUST BE INSTALLED IN PROPER LOCATION PLUMB AND LEVEL AGAINST WALL.
4. DECAL DD1, PROVIDED BY USPS,MUST BE APPLIED TO ALL PARCEL UNITS. IF THE PARCEL UNIT DELIVERED TO THE SITE DOES NOT ALREADY HAVE THE DECAL APPLIED TO IT, THE POSTMASTER SHOULD CONTACT FIELD MAINTENANCE TO OBTAIN AND HAVE THEM APPLY IT.

NOTE: MIN. MOUNTING HEIGHT TO BOTTOM OF SIGN IS 3'-4".

40 Detail: BUILDING IDENTIFICATION MAIL DROP SIGNS
Fac. G2-7-5s | Cn. | Sect. | Para. | Detail
CAD File: .\uspa\library\details\G2-7-5s.dwg | Scale: 1-1/2"=1'-0" | USPS SDL Issued: 10/1/2020 | Last Revised: 8/17/2017

INSTALLATION NOTES:

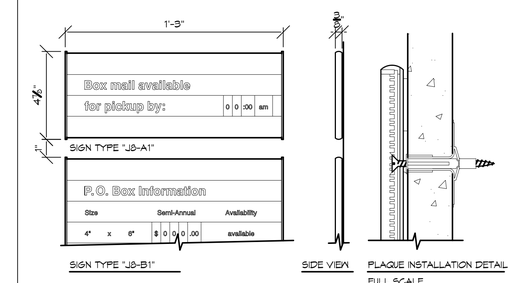
1. USING THE SIGN TOOL, REMOVE BARS THAT INTERFERE WITH MOUNTING HOLES.
2. MARK THE PILOT HOLE LOCATION IN THE WALL AS PER THE SPECIFIED MOUNTING LOCATION.
3. DRILL PILOT HOLE TO RECEIVE KNIK-TOG TYPE OR APPROPRIATE FASTENER.
4. REMOVE THE PROTECTIVE FILM ON THE D/F FOAM TAPE AT REAR OF SIGN.
5. FASTEN SIGN TO WALL WITH COUNTERSUNK FLATHEAD SCREW.
6. RETURN ALL REMOVED BAR EXTRUSIONS TO THEIR ORIGINAL LOCATION ON SIGN.
7. ALL BARS TO BE FLUSH WITH SIGN BODY.
8. ATTACHED REPLACEMENT KIT TO BE LEFT WITH STATION MANAGER. HOURS SET-UP TO BE COMPLETED BY FACILITY.



41 Detail: BUILDING IDENTIFICATION COLLECTION TIMES PLAQUE
Fac. G2-7-5t | Cn. | Sect. | Para. | Detail
CAD File: .\uspa\library\details\G2-7-5t.dwg | Scale: 3"=1'-0" | USPS SDL Issued: 10/1/2020 | Last Revised: 4/17/2008

INSTALLATION NOTES:

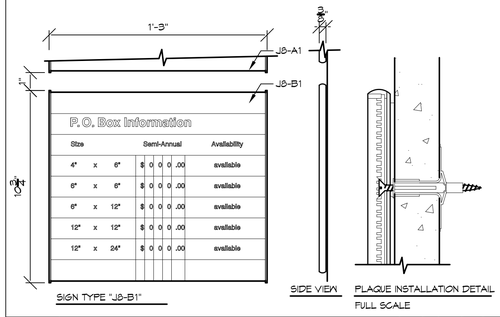
1. USING THE SIGN TOOL, REMOVE BARS THAT INTERFERE WITH MOUNTING HOLES.
2. MARK THE PILOT HOLE LOCATION IN THE WALL AS PER THE SPECIFIED MOUNTING LOCATION.
3. DRILL PILOT HOLE TO RECEIVE KNIK-TOG TYPE OR APPROPRIATE FASTENER.
4. REMOVE THE PROTECTIVE FILM ON THE D/F FOAM TAPE AT REAR OF SIGN.
5. FASTEN SIGN TO WALL WITH COUNTERSUNK FLATHEAD SCREW.
6. RETURN ALL REMOVED BAR EXTRUSIONS TO THEIR ORIGINAL LOCATION ON SIGN. ALL BARS T. TO BE FLUSH WITH SIGN BODY.
8. ATTACHED REPLACEMENT KIT TO BE LEFT WITH STATION MANAGER. HOURS SET-UP TO BE COMPLETED BY FACILITY.



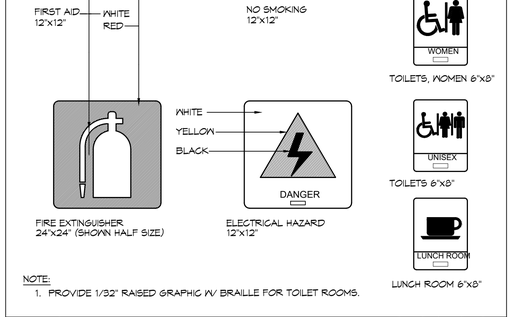
42 Detail: BUILDING IDENTIFICATION P.O. BOX MAIL AVAILABILITY PLAQUE
Fac. G2-7-5u | Cn. | Sect. | Para. | Detail
CAD File: .\uspa\library\details\G2-7-5u.dwg | Scale: 3"=1'-0" | USPS SDL Issued: 10/1/2020 | Last Revised: 8/17/2017

INSTALLATION NOTES:

1. USING THE SIGN TOOL, REMOVE BARS THAT INTERFERE WITH MOUNTING HOLES.
2. MARK THE PILOT HOLE LOCATION IN THE WALL AS PER THE SPECIFIED MOUNTING LOCATION.
3. DRILL PILOT HOLE TO RECEIVE KNIK-TOG TYPE OR APPROPRIATE FASTENER.
4. REMOVE THE PROTECTIVE FILM ON THE D/F FOAM TAPE AT REAR OF SIGN.
5. FASTEN SIGN TO WALL WITH COUNTERSUNK FLATHEAD SCREW.
6. RETURN ALL REMOVED BAR EXTRUSIONS TO THEIR ORIGINAL LOCATION ON SIGN.
7. ALL BARS TO BE FLUSH WITH SIGN BODY.
8. ATTACHED REPLACEMENT KIT TO BE LEFT WITH STATION MANAGER. HOURS SET-UP TO BE COMPLETED BY FACILITY.

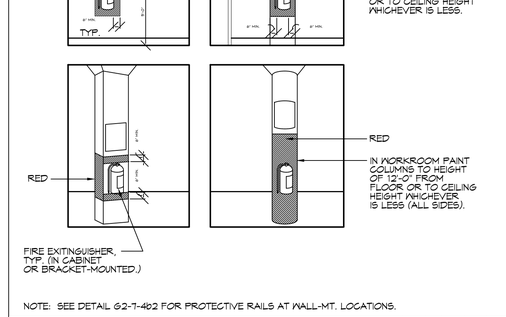


43 Detail: BUILDING IDENTIFICATION P.O. BOX INFORMATION PLAQUE
Fac. G2-7-5u1 | Cn. | Sect. | Para. | Detail
CAD File: .\uspa\library\details\G2-7-5u1.dwg | Scale: 3"=1'-0" | USPS SDL Issued: 10/1/2020 | Last Revised: 12/17/2008



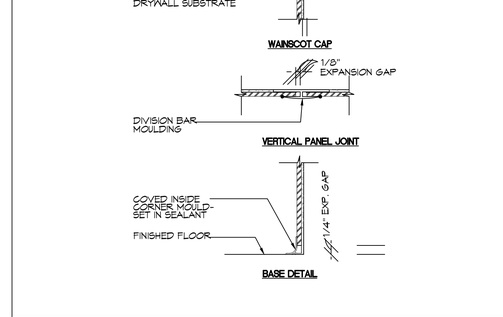
NOTE:
1. PROVIDE 1/32" RAISED GRAPHIC W/ BRAILLE FOR TOILET ROOMS.

44 Detail: BUILDING IDENTIFICATION - ROOM SIGNAGE PICTOGRAPHS
Fac. G2-7-5z2 | Cn. | Sect. | Para. | Detail
CAD File: .\uspa\library\details\G2-7-5z2.dwg | Scale: 1 1/2" = 1'-0" | USPS SDL Issued: 10/1/2020 | Last Revised: 4/17/2009



NOTE: SEE DETAIL G2-7-4b2 FOR PROTECTIVE RAILS AT WALL-MT. LOCATIONS.

45 Detail: FIRE EXTINGUISHERS - EXTINGUISHER IDENTIFICATION
Fac. G2-8-2a | Cn. | Sect. | Para. | Detail
CAD File: .\uspa\library\details\G2-8-2a.dwg | Scale: 3/16" = 1'-0" | USPS SDL Issued: 10/1/2020 | Last Revised: 9/17/2020



46 Detail: PROTECTIVE BARRIERS - FIBERGLASS REINFORCED PLASTIC (FRP) PANEL DETAIL
Fac. G2-7-4e3 | Cn. | Sect. | Para. | Detail
CAD File: .\uspa\library\details\G2-7-0a.dwg | Scale: 6" = 1'-0" | USPS SDL Issued: 10/1/2020 | Last Revised: 1/17/2001

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approved by: FAR

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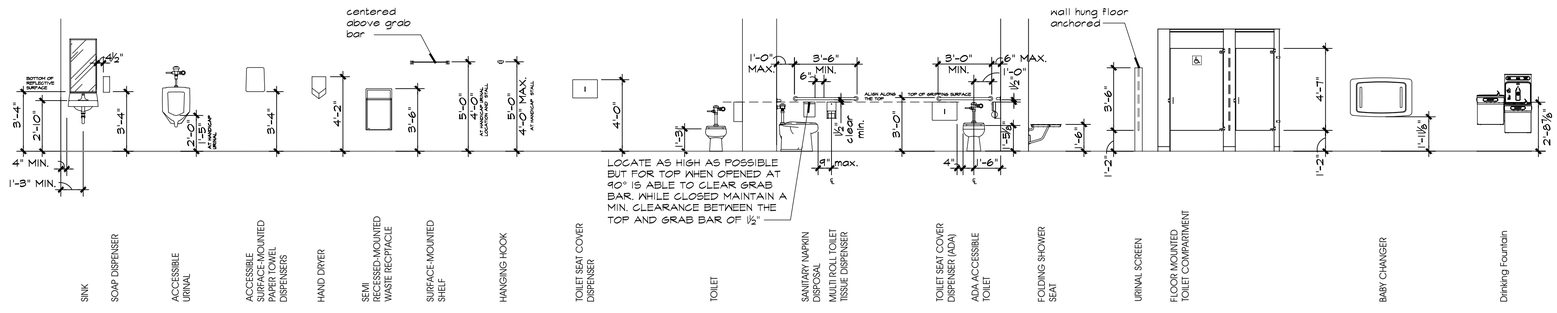
sheet number
A14.2

sheet:
of

TYPICAL TOILET FIXTURE AND ACCESSORY MOUNTING HEIGHTS — 1/4" = 1'-0"



TOILET ACCESSORY SCHEDULE (WHEN MANUFACTURER IS NOT NOTED, REFER TO SPEC SECTION 10800)

A. STAINLESS STEEL GRAB BAR-42"

B. STAINLESS STEEL GRAB BAR

C. SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER

D. UNIVERSAL PAPER ROLL
PAPER TOWEL DISPENSER
PROVIDE AT EVERY RESTROOM AND ADA STALL WITH SINK)

E. SURFACE MOUNTED AUTOMATIC FOAM SOAP
DISPENSER
BOBRICK B-2012

F. CLOTHES HOOK
BOBRICK, B-233

G. STAINLESS STEEL FRAME MIRROR

H. SEMI-RECESSED WASTE RECEPTACLE (PROVIDE AT EVERY RESTROOM AND ADA STALL WITH SINK)
BOBRICK, B-43644 (CONTURA SERIES)

K. SURFACE MOUNTED TOILET SEAT COVER DISPENSER
KIMBERLY CLARK, 09512

L. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
BOBRICK, B-270 (CONTURA SERIES) ONLY AT WOMEN'S RESTROOM STALLS

M. TOILETRY SHELF
BOBRICK, B-683 x24

N. CLOTHES HOOK AND BUMPER
BOBRICK, B-212

P. MOP AND BROOM (3 HOLDERS) STAINLESS STEEL WITH RUBBER CAM HOLDERS
BRADEX, 995Q

Q. DOUBLE ROBE HOOK
BOBRICK, B-672 (CLASSIC SERIES)

R. EXTRA-HEAVY DUTY SHOWER CURTAIN ROD
BOBRICK, B-6047x36 (ROD)
VINYL SHOWER CURTAIN
BOBRICK, 204-3 (CURTAIN) WHITE .008 THICK
SHOWER CURTAIN HOOK
BOBRICK, 204-1 (HOOKS-7 PER CURTAIN)

S. FOLDING SHOWER SEAT (FOR 30"x60" HC SHOWER STALL)
BOBRICK, B-5191

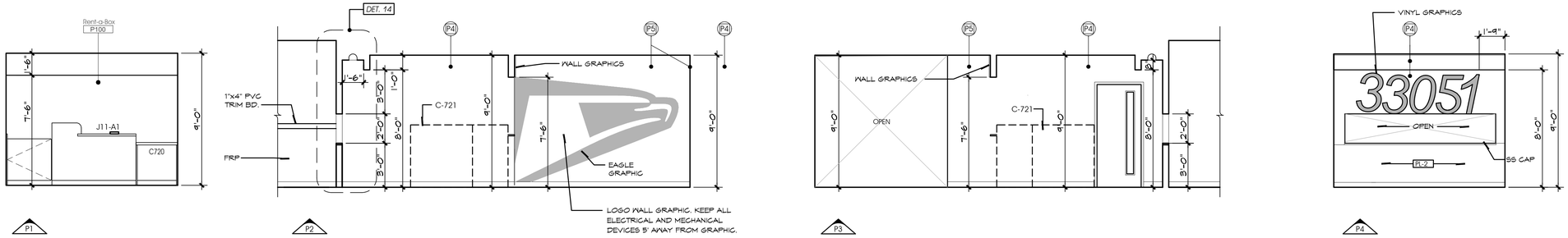
T. SURFACE-MOUNTED SOAP DISH AT EVERY SHOWER
BOBRICK, B-680

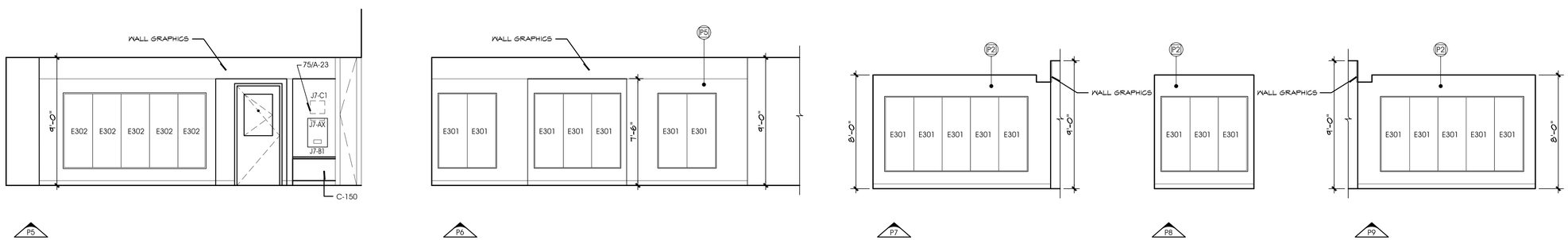
U. BABY CHANGER
KB310-SSRE HORIZONTAL STAINLESS STEEL RECESSED-MOUNTED

V. HAND DRYER

W. CHROME METAL FRAME BATHROOM WALL MIRROR
EVIVA SAX, 60" W X 30" H X 1.24" D

NOTE:
STRUCTURAL STRENGTH OF WALL MOUNTED SHOWER SEATS, GRAB BARS AND THEIR MOUNTING DEVICES OR FASTENERS SHALL WITHSTAND A MINIMUM OF 250 POUNDS OF FORCE APPLIED IN ANY DIRECTION.





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consultant:

CITY OF KEY COLONY BEACH — CITY HALL
600 W Ocean Dr . Key Colony . Florida 33051

LIVS project number:
201913

Client project number:
-

sheet title
POST OFFICE-
INTERIOR ELEVATIONS

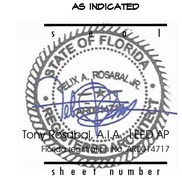
revisions

issued for:
BID SET

issue date:
05.01.23

drawn by:	approved by:
LAC	FAR

scale:
AS INDICATED



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Florida Registered AR 0014717

sheet number
A15.0

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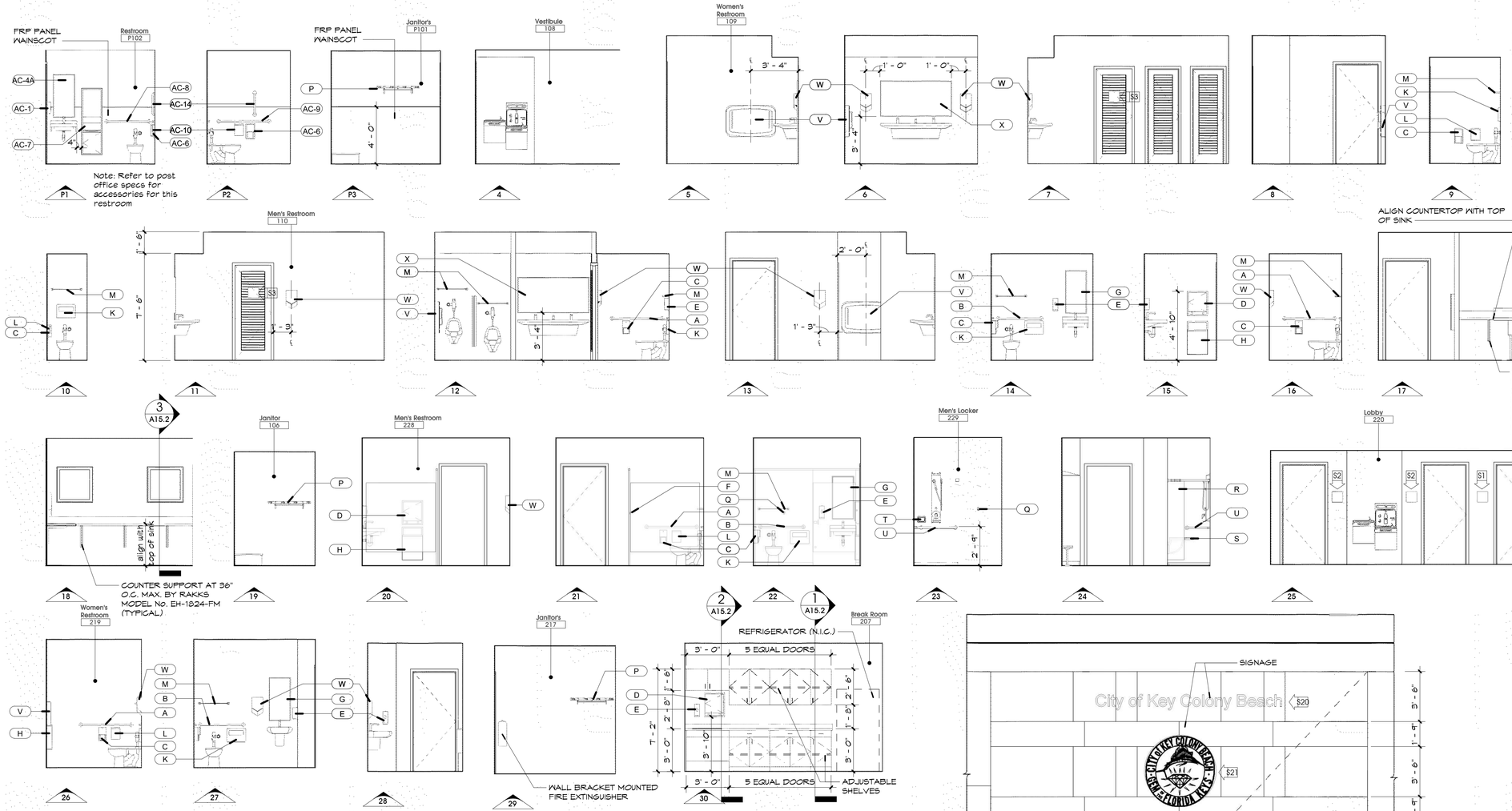
of



INTERIOR ELEVATIONS 1/4" = 1'-0"

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Author	Checker

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STATE OF FLORIDA
FELIX A. ROSABAL JR.
LICENSED ARCHITECT

Tony Rosabal, A.I.A., LEED AP
Florida Reg. #AR0011717

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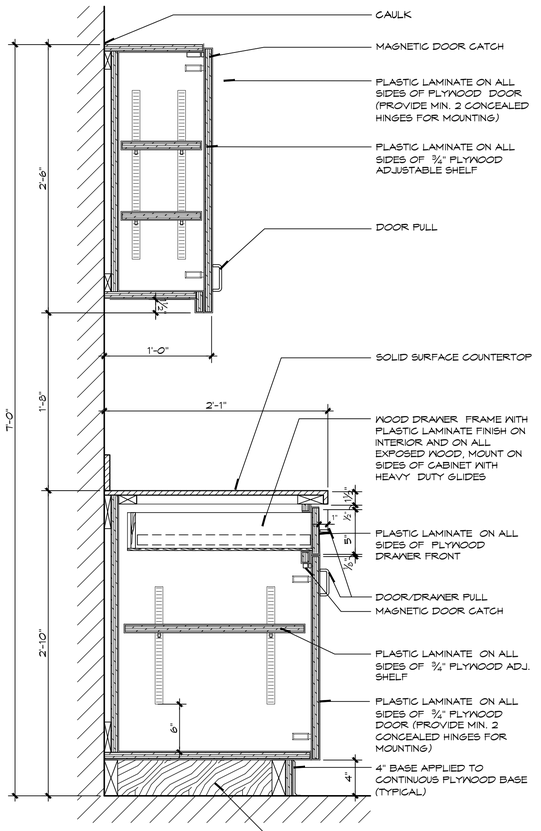

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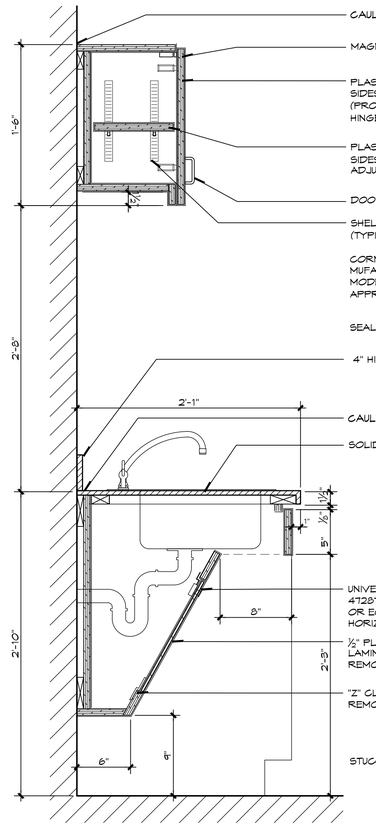

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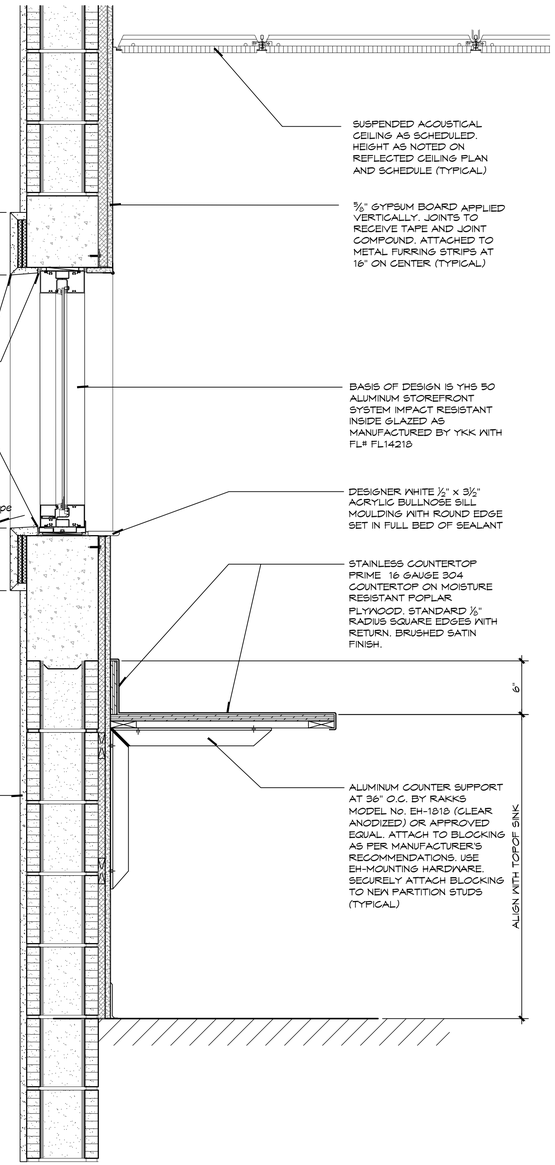

3 A15.2 DETAIL 1 1/2" = 1'-0"

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CITY HALL
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SEAL
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REGISTERED ARCHITECT
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Florida Registered AR. No. 14717

sheet number
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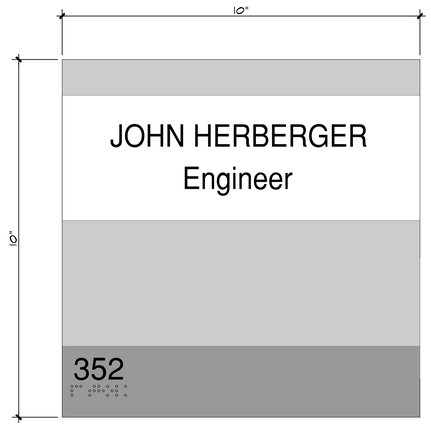
of



TYPE S1

ROOM NAME AND NUMBER TO BE WALL MOUNTED ADJACENT TO EACH DOOR, (REFER TO SIGNAGE CONFIGURATION FOR WALL MOUNTING LOCATION)



TYPE S2 A

ROOM NAME AND NUMBER TO BE WALL MOUNTED ADJACENT TO EACH DOOR, (REFER TO SIGNAGE CONFIGURATION FOR WALL MOUNTING LOCATION)



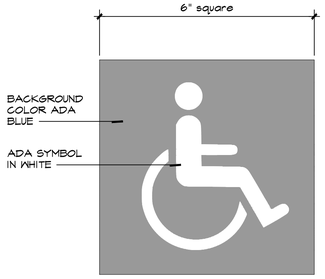
TYPE S2 B

ROOM NAME AND NUMBER TO BE WALL MOUNTED ADJACENT TO EACH DOOR, (REFER TO SIGNAGE CONFIGURATION FOR WALL MOUNTING LOCATION)



TYPE S2 C

ROOM NAME AND NUMBER TO BE WALL MOUNTED ADJACENT TO EACH DOOR, (REFER TO SIGNAGE CONFIGURATION FOR WALL MOUNTING LOCATION)



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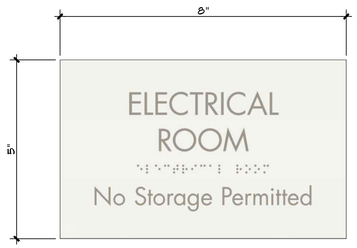

TYPE S4

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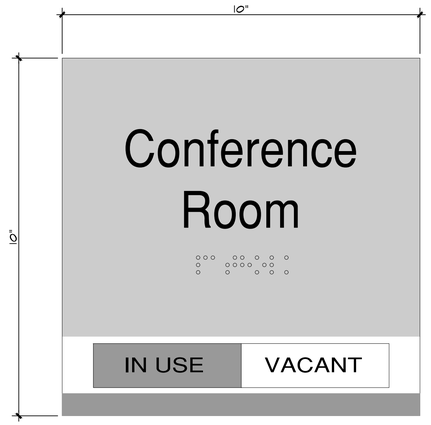

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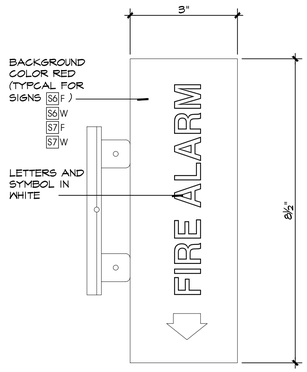
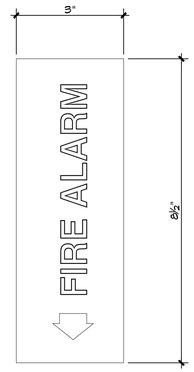


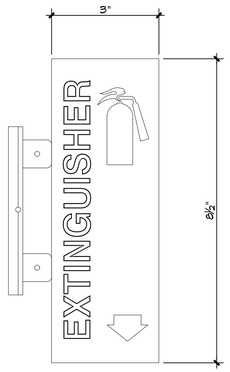
TYPE S6 F

MOUNTED ABOVE FIRE ALARM PULL STATION, (REFER TO SIGNAGE CONFIGURATION FOR WALL MOUNTING LOCATION)



TYPE S6 W

FLAG MOUNTED ABOVE FIRE ALARM PULL STATION, (REFER TO SIGNAGE CONFIGURATION FOR WALL MOUNTING LOCATION)



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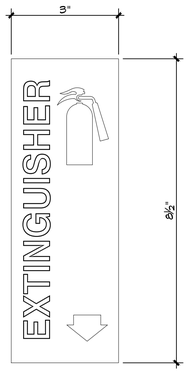

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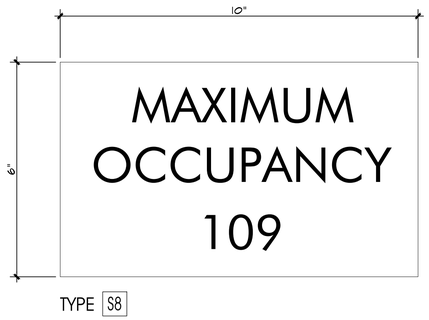

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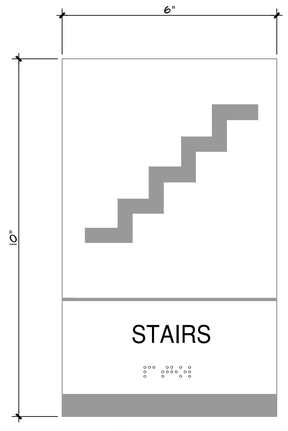


TYPE S14

TYPE S9 COMPLIANCESIGNS.COM 14"w x 10"h SMOKING IS PROHIBITED WITHING 25 FEET ENTRANCE SIGN MODEL No. NHE-14656 OR EQUAL



TYPE S10 ARC FLASH WARNING LABE #EL-1 BY BRADY OR EQUAL TO COMPLY WITH NFPPA 70E. LOCATED ON ELECTRICAL ROOM DOORS



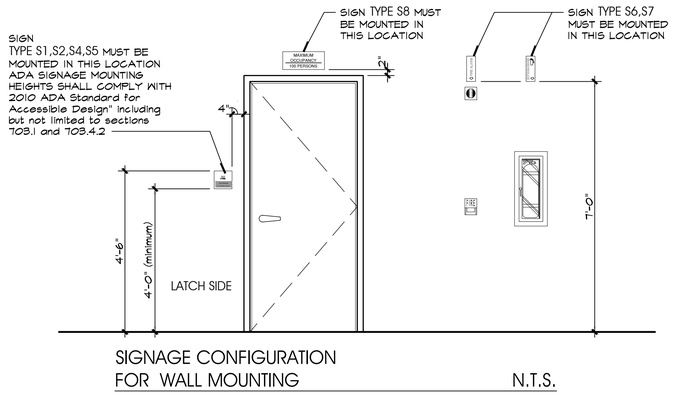
TYPE S11 SETON 10"w x 7"h ROOF ACCESS SIGNS-ROOF LADDER ACCESS MODEL No. L400196SHSUTHPP



TYPE S12 MYSAFETYSIGN.COM 10"w x 14"h PLASTIC OSHA DANGER SIGN: DIESEL FUEL NO SMOKING NO OPEN FLAMES (WITH NFPA SYMBOL) MODEL No. S-9400



TYPE S13 MYDOORSIGN.COM 6"w x 6"h VINYL DIE CUT FROSTED GLASS WINDOW DECAL WITH FRONT ADHESIVE: NO SMOKING SYMBOL. MODEL No. LB-1543



SIGNAGE CONFIGURATION FOR WALL MOUNTING N.T.S.

SIGNAGE LEGEND 6"=1'-0"

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Florida Registered Architect #14717

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A16.0

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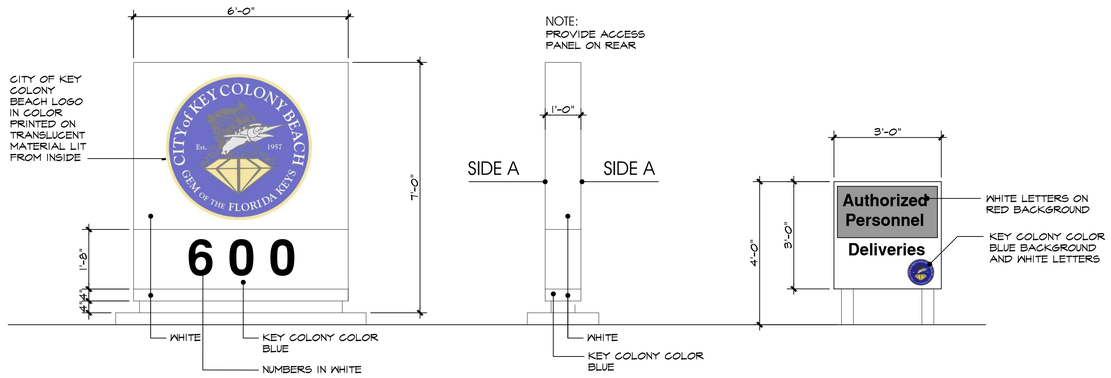
of



SIDE A

PROFILE

TYPE S15 PROVIDE SHOP DRAWINGS

TYPE S16

SIGNAGE LEGEND 1/2"=1'-0"

EXTERIOR APPLICATION
2" deep x 12" high ANODIZED ALUMINUM LETTERS MOUNTED ON STAND OFFS FONT: ARIAL

EXTERIOR APPLICATION
1" deep x 8" high ANODIZED ALUMINUM LETTERS MOUNTED ON STAND OFFS FONT: MYRIAD PRO BOLD

City of

KEY COLONY BEACH

Marathon, Florida

8"
1'-0"

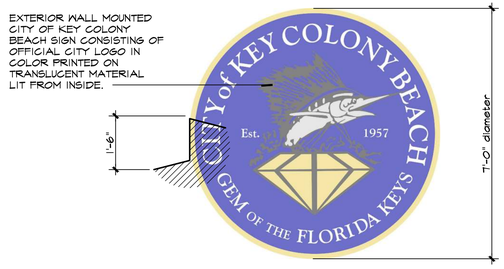
1" deep x 8" high ANODIZED ALUMINUM LETTERS MOUNTED ON STAND OFFS FONT: MYRIAD PRO BOLD

TYPE S17

TYPE S18 SIMILAR TO TYPE S17
5" deep x 4" high ANODIZED ALUMINUM LETTERS MOUNTED STUD FLUSH TO READ "CAUTION Maximum height 7'-6"

TYPE S20 SIMILAR TO TYPE S17
2" deep x 10" high ANODIZED ALUMINUM LETTERS MOUNTED STUD FLUSH TO READ "City of Key Colony Beach"

TYPE S21 2D MULTI-LEVEL FLAT HIGH DENSITY-URETHANE AS SUBSTRATE CITY LOGO. SIZE: 5' DIAMETER AS MANUFACTURED BY WOOD AND METAL PLAQUE COMPANY OR APPROVED EQUAL



TYPE S19

SIGNAGE LEGEND not to scale

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Florida Registered AR 0014717

sheet number
A16.1

sheet:
of

GENERAL STRUCTURAL NOTES

COORDINATION:

1. COORDINATE ALL DIMENSIONS, ELEVATIONS & OPENINGS WITH ARCHITECTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO OUR OFFICE.

2. SEE ARCHITECTURAL DRAWINGS FOR SLAB FINISHES, DETAILS AND EXACT LOCATION OF DEPRESSED SLAB AREAS AND ALL DRAINS.

OWNER, ARCHITEC, AND CONTRACTOR NOTES:

1. IF OUR OFFICE WERE TO BE HELD RESPONSIBLE FOR THE STRUCTURAL ADEQUACY OF THE CONSTRUCTED BUILDING, WE WOULD NEED TO PERFORM A REVIEW OF THE SHOP DRAWINGS AS WELL AS SITE INSPECTIONS FOR REINFORCENT.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS . ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED BEFORE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

3. DUE TO MOISTURE VARIATIONS AS A RESULT OF AMBIENT CONDITIONS AND MATERIAL CONDITIONS AT TIME OF CONSTRUCTION, WOOD MEMBERS ARE SUSCEPTIBLE TO VOLUME AND SHAPE CHANGES AND DIMENSIONAL VARIATIONS, SPENING MEMBERS MAY ALSO DEFLECT VERTICALLY OR LATERALLY. SHEATHING, DRYWALL OR ARCHITECTURAL SURFACES SUPPORTED BY WOOD MEMBERS MAY DISTORT, CRACK AND BULGE DUE TO THESE FACTORS.

4. PLAIN CONCRETE , REINFORCED CONCRETE , POST-TENSIONED CONCRETE, OR CONCRETE MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE, CREEP AND RESTRAINING EFFECTS. CRACKS ARE NORMALLY COSMETIC AND THE SYSTEM MAINTAINS SERVICEABILITY AND STRENGTH REQUIREMENTS. JOINTS MAY BE INDICATED TO CONTROL CRACKINGS, BUT ARE NOT MEANT TO ELIMINATE ALL CRACKS. AS THIS IS NOT PRACTICAL THE CONTRACTOR SHALL USE ALL STANDARD MEANS TO INSURE PROPER PROTECTION AND CURING OF CEMENTIOUS MATERIAL TO REDUCE CRACKING. SURFACE SPALLING OR EXTREME CRACKING MAY BE CAUSED BY POOR MATERIAL OR PLACEMENT.

GEOTECHNICAL CRITERIA:

1. FOUNDATIONS HAVE BEEN DESIGNED PER THE RECOMMENDATIONS DONE BY "WINGERTER LABORATORIES INC", (PROFESSIONAL ENGINEERING & TESTING)., REPORT DATED OCTOBER 18, 2021 FOR THE PROPOSED "CITY OF KEY COLONY BEACH" LOCATED AT 600 WEST OCEAN DRIVE, KEY COLONY BEACH, FLORIDA 33051.

2. FOUNDATIONS HAVE BEEN DESIGNED AS A DEEP FOUNDATION SYSTEM USING 16 INCHES PRECAST CONCRETE PILES.

3. ENGINEERING RECOMENDATIONS (16 INCH DRIVEN PRECAST CONCRETE PILES):

SPECIFICATIONS

- SHAFT DIAMETER:	16 INCH DIAMETER (SQUARE/TAERED)
- COMPRESSIVE CAPACITY:	39 TONS
- TENSION CAPACITY:	32 KIPS
- LATERAL CAPACITY:	17 KIPS
- TOTAL PILE LENGTH:	30 FEET
- ROCK EMBEDMENT:	6 FEET TO LIMESTONE
- CENTER TO CENTER SPACING:	48 INCHES
- CONCRETE COMPRESSIVE STRENGTH:	5000 PSI

NOTES:

- ALL GRADE BEAMS SHALL BE FORMED AND POURED LEVEL ON TOP.
- CONCRETE FOR GRADE BEAMS MUST CURE ADEQUATELY TO RETAIN 75% OF ULTIMATE STRENGTH PRIOR ADDITIONAL POURS.
- THE CONTRACTOR MUST VERIFY ALL PILE LOCATIONS PRIOR TO FINAL INSTALLATION. ALL DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF ENGINEER OF RECORD.
- MAIN VERTICAL REINFORCEMENT OF ALL PILES MUST HOOK INTO THE GRADE BEAM HORIZONTAL REINFORCEMENT MINIMUM 12 INCHES OR AS NOTES.
- ALL CORNER REBARS IN GRADE BEAMS SHALL LAP WITH MAIN HORIZONTAL REBARS MINIMUM 42 EACH SIDE OR AS NOTE.

ELEVATIONS:

1. ALL ELEVTIONS SHOWN ARE IN FEET AND INCHES, AND ARE REFERENCES FROM SEA LEVEL DATUM OF 0'-0"=+4'-6" (N.G.V.D.)

BUILDING PAD PREPARATION

1. REMOVE ALL VEGETATION, SOILS AND ORGANIC MATERIALS WITHIN THE BUILDING AREAS PLUS THREE (3) FEET OUTSIDE THE BUILDING FOOTPRINT. DOWN TO THE LIMESTONE STRATUM. THE AREA UNDER FOUNDATIONS AND CONCRETE SLABS ON GRADE SHALL HAVE ALL VEGETATION, SLUMPS, ROOTS AND FOREIGN MATERIALS REMOVED PRIOR TO PLACEMENT OF FILL.

2. IF ANY FILL MATERIAL IS TO BE PLACED BELOW WATER LEVEL, BULK PLACE FILL CAREFULLY TO AVOID MATERIAL SEGREGATION, TO APPROXIMATELY ONE FOOT ABOVE THE GROUND WATER LEVEL. COMPACT TO A MINIMUM OF 95 PERCENT OF THE DRY SOIL DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST ASTM D-1557.

3. CONTINUE TO FILL AND COMPACT THE BUILDING AREAS IN LIFTS NOT GRATER THAN 12 INCHES OF LOOSE THICKNESS TO ELEVATE TO THE REQUIRED GRADE. FILL MATERIAL FOR AREAS IN SUPPORT OF FOOTINGS TO HAVE A MIXTURE OF LIMEROCK AND SAND (MINIMUM LBR 40), FREE OF VEGETATION, ORGANIC MATERIAL CONSTRUCTION DEBRIS AND LARGE ROCKS. IF SUFFICIENT COMPATIBILITIES EXISTS, SOILS MAY BE PLACED AND COMPACTED IN GREATER LIFT THICKNESS. FILL MATERIAL FOR SLAB ON GRADE AREAS MAY BE CLEAN SAND, FILLED AND COMPACTED IN LIFTS NOT GREATER THAN 12 INCHES OF LOOSE MATERIAL. THE MAXIMUM SIZE OF FILL MATERIAL (ROCKS) WITHIN 12 INCHES BELOW THE FLOOR SLAB SHALL BE NO MORE THAN 3" IN DIAMETER.

4. ALL FILL MATERIAL SHALL BE INORGANIC CONTAINING NO MORE THAN 5% BY WEIGHT ORGANIC MATERIAL. SILT SIZE FINE PARTICULATES (MATERIAL PASSING NO. 200 SIEVE) IN FILL MATERIAL SHALL BE LIMITED TO LESS THAN 10% BY WEIGHT.

5. COMPACT EACH LIFT OF FILL MATERIAL AND EXCAVATED FOOTINGS TO A MINIMUM COMPACTION OF 95 PERCENT OF THE DRY SOIL DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST ASTM D-1557 PRIOR TO PLACEMENT OF ANY ADDITIONAL FILL REQUIRED. PRIOR TO COMPACTION, THE MOISTURE CONTENT OF EACH LIFT OF FILL MATERIAL SHALL BE ADJUSTED TO WITHIN PLUS/MINUS 2 PERCENT OF THE OPTIMUM MOISTURE AS DETERMINED BY THE MODIFIED PROCTOR TEST, ASTM D-1557.

6. COMPACTION OF BUILDING SITE SHALL BE VERIFIED BY MEANS OF ONE FIELD DENSITY TEST FOR EACH 2500 SQUARE FEET OR FRACTION THEREOF FOR EACH LIFT OF COMPACTED SOIL FOR BUILDING PAD OR SLAB AREA. ONE FIELD DENSITY TEST WILL ALSO BE REQUIRED FOR EVERY 50 LINEAR FEET OF EXCAVATED SPREAD FOOTINGS, AND EVERY ISOLATED FOOTING EXCAVATION. FIELD DENSITY TESTS SHALL BE PERFORMED AS PER ASTM D-2922.

7. ALL GEOTECHNICAL WORK MUST BE PERFORMED UNDER THE SUPERVISION OF THE GEOTECHNICAL ENGINEER.

TERMITE PROTECTION:

1. AS PER F.B.C. 105.11 BUILDING COMPONENTS AND BUILDING SURROUNDINGS REQUIRED TO BE PROTECTED FROM TERMITE DAMAGED IN ACCORDANCE WITH 1503.6, 2304.11, 2603.9, OR REQUIRED TO HAVE CHEMICAL SOIL TREATMENT IN ACCORDANCE WITH 1816 SHALL NOT BE COVERED OR CONCEALED UNTIL THE RELEASE FROM THE BUILDING OFFICAL HAS BEEN RECEIVED.

2. ALL BUILDINGS SHALL HAVE PRE-CONSTRUCTION TREATMENT PROTECTION AGAINST SUBTERRANEAN TERMITES AS PER F.B.C. 1816 A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING STATEMENT: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACOORDANCE WITH THE RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTAMENT OF AGRICULTURE AND CONSUMER SERVICES".

CONCRETE:

1. ALL STRUCTURAL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH THE ACI 318-14 AND THE BUILDING CODE.

2. THE CONCRETE REQUIREMENTS ARE:

A. CEMENT SHALL BE TYPE I OR II CONFORMING TO ASTM C150-12.
B. FINE AND COURSE AGGREGATES SHALL CONFORM TO ASTM C33/C33M-13.
C. NOMINAL MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE NOT LARGER THAN 3/4"
D. SLUM SHALL BE 3" TO 6" (UNLESS UTILIZING WATER REDUCING ADMIXTURES).

3. COMPRESSIVE STRENGTH AT 28 DAYS:
ALL EXTERIOR CONCRETE (EXPOSED TO EARTH OR WEATHER) SHALL COMPLY WITH ACI 318-14,TABLES 19.3.1.1 & 19.3.2.1. SEE TABLE BELOW FOR MAXIMUM WATER-CEMENT RATIO.

		f'c [PSI]	WATER CEMENT RATIO (NON-AIR ENTRAINED (NO EXPOSED TO FREEZING AND THAWING)
FOOTINGS:	5000 PSI		
SLAB ON FILL:	5000 PSI		
COLUMNS:	5000 PSI		
BEAMS & SLABS:	5000 PSI	2000	0.82
WALLS:	5000 PSI	3000	0.68
ALL OTHER POURED-IN-PLACE CONCRETE:	5000 PSI	4000	0.57
GROUT:	5000 PSI	5000	0.48
		6000	0.41

4. TEST: A MIN. OF 5 CONCRETE SPECIMENS SHALL BE TAKEN FROM EACH 50 CU. YD. OR PORTION THEREOF SPECIMENS SHALL BE TESTED ACCORDING TO A.S.T.M. C-39, ONE AT 3, ONE AT 7, AND 3 AT 28 DAYS.

5. COVER:

CONCRETE DEPOSITED AGAINST THE GROUND:	3"
FORMED CONCRETE IN CONTACT WITH THE GROUND:	2"
BEAMS AND COLUMNS:	1-1/2"
BEAMS AND COLUMNS EXPOSED TO WEATHER:	2"
INTERIOR SLABS, WALLS AND STAIRS:	3/4"
EXTERIOR SLABS, WALLS AND STAIRS:	1-1/2"

SLAB ON FILL: (PLACED ACCORDING TO ACI 302)

1. JOINTS:
A. ISOLATION JOINTS MUST BE USED AT JUNCTIONS WITH WALLS AND COLUMNS, USE 1/2" THICK PREMOLDED JOINTS FULL DEPTH OF SLAB. CONTROL JOINTS PLACED AT CENTERLINE OF COLUMN LINES PROVIDE INTERMEDIATE JOINTS IF COLUMN SPACING IS GREATER THAN 30'. IN SIDEWALKS PROVIDE TOOLED JOINTS SPACED AT INTERVALS EQUAL TO THE WIDTH OF THE SLAB.
4" & 5" SLABS ..... 1" DEEP TOOLED
B. JOINTS MUST BE SAWED BEFORE 24 HOURS AFTER CONCRETING. CONSTRUCTION JOINTS MUST BE PLACED IN THE SLAB WHERE BUILDING EXPANSION JOINTS ARE SHOWN AND WHERE CONTROL JOINTS ARE SHOWN OR AS PER FOLLOWING:

4" THICK	12 FT	8" THICK	20 FT
5" THICK	13 FT	9" THICK	23 FT
6" THICK	15 FT	10" THICK	25 FT
7" THICK	18 FT		

2. WHEN CONCRETING AND OPERATING ARE CONCLUDED FOR THE DAY, CONSTRUCTION JOINTS SHALL BE FORMED WITH BURKE KEYED KOLD METAL JOINT FORM OR APPROVED EQUAL.

3. VAPOR BARRIERS:
WATERPROOF MEMBRANES NOT LESS THAN 6-MIL POLYVINYL CHLORIDE (OVERLAPPED 6" AT JOINTS) WITH A PERMEANCE OF LESS THAN 0.3% PERMS IN ACCORDANCE WITH A.S.T.M. E-98 SHALL BE PROVIDED UNDER INTERIOR SLAB. WHERE NO VAPOR BARRIER IS USED THE SUBGRADE MUST BE DAMPENED WITH WATER IN ADVANCE OF CONCRETING NO FREE WATER STANDING ON THE SUBGRADE NOR ANY MUDDY OR SOFT SPOT IS PERMITTED.

4. ANY STRUCTURAL MEMBER PENETRATING SLAB ON FILL IS TO BE 1/2" PRE-MOLDED JOINT FILLER COMPLYING WITH A.S.T.M. D-1752, TYPE I.

5. FINISHING:
NO PREMATURE FINISHING SHALL BE ALLOWED. IMMEDIATE FOLLOWING FLOATING TROWELING WITH STEEL TROWELS SHOULD BE COMMENCED IF REQUIRED BROOMING SHALL BE AFTER THE STEEL TROWELING OPERATION.

6. SLAB FINISHES: (UNLESS OTHERWISE NOTED BY THE ARCHITECT)
BUILDING ..... STEEL TROWELED
OUTSIDE SLAB ..... BROOMED
WATERSTOP:
1. NOTIFY ENGINEER/ARQUITECT 24 HOURS PRIOR TO PLACEMENT OF CONCRETE AT WATERSTOPS.

REINFORCING STEEL:

1. WELDED DEFORMED WIRE REINFORCEMENT FABRIC SHALL CONFORM TO ASTM A1064 AND SHALL BE LOCATE IN THE MIDDLE OF THE UPPER ONE-THIRD OF THE SLAB (U.N.O.).

2. WELDED DEFORMED WIRE REINFORCEMENT FABRIC SHALL BE SUPPORTED WITH THE APPROVED MATERIALS OR SUPPORTS AT SPACING NOT TO EXCEED 3 FEET IN ANY DIRECTION, OR IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

3. REINFORCING BARS CONFORMING TO A.S.T.M. A-615 GRADE 60, INCLUDING COLUMN AND BEAM TIES.

4. WELDED FIRE FABRIC CONFORMING TO A.S.T.M. A-185 AND SUPPORTED ON SLAB BOLSTERS SPACED AT 3'-0" O/C.

5. REINFORCING BARS REQUIRED TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GRADE 60. WELDING OF REINFORCING OTHER THAN SPECIFIED IS PROHIBITED.

6. MECHANICAL CONNECTORS SHALL BE IN ACCORD WITH ACI 439-3R-83.

7. FABRICATION AND DETAILING ACCORDING TO A.C.I.-315.

8. ALL ACCESSORIES TO HAVE UPTURNED LEGS AND BE PLASTIC DIPPED AFTER FABRICATION. THE CONTRACTOR SHALL INCLUDE IN HIS BASE BID THE COST.

STRUCTURAL STEEL

-STRUCTURAL STEEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE IBC (2006 EDITION) AND AISC SPECIFICATIONS NINTH EDITION.

-STRUCTURAL STEEL SHALL MEET THE FOLLOWING REQUIREMENTS UNLESS NOTED OTHERWISE ON THE DRAWINGS:

TYPE	ASTM	GRADE
WIDE-FLANGE TYPE SHAPES (W, S & MI)	A992	50
ANGLES, CHANNELS AND PLATES	A36	-----
PIPE	A53	B TYPE E
STRUCTURAL TUBING	A500	B
ANCHOR BOLTS	A1554 W/S1	-----
STRUCTURAL BOLTS	A325	-----
ERECTION BOLTS	A307	-----

-ALL CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE DESIGNED BY THE FABRICATOR. SHOP DRAWINGS AND CONNECTION CALCULATIONS SHALL BE SUBMITTED BEARING THE SEAL OF AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

A. BEAM SHEAR CONNECTIONS SHALL BE STANDARD AISC DOUBLE ANGLE CONNECTIONS, AND SHALL BE DESIGNED FOR THE LOADS SHOWN IN PLANS & DETAIL 7/S7. DESIGN SHALL BE BASED ON BEARING TYPE BOLTED CONNECTIONS WITH BOLTS "SNUG TIGHT" PER AISC. WELDED TYPE CONNECTIONS SHALL BE APPROVED FOR USE PRIOR TO SUBMITTAL OF SHOP DRAWINGS.

B. ALL MOMENT CONNECTIONS ON THE DRAWINGS SHALL DEVELOP THE FULL MOMENT CAPACITY OF THE CONNECTED MEMBERS. MOMENT CONNECTIONS SHALL BE WELDED TYPE. BOLTED MOMENT CONNECTIONS USING FRICTION TYPE PRETENSIONED BOLTS SHALL BE APPROVED FOR USE PRIOR TO SUBMITTAL OF SHOP DRAWINGS. DIRECT TENSION INDICATOR (DTI) WASHERS SHALL BE USED TO INSURE PROPER TENSIONING.

C. ALL BOLTED CONNECTIONS, REQUIRING PRETENSIONED BOLTS, WILL BE INDICATED AS USING DIRECT TENSION INDICATOR (DTI) WASHERS TO INSURE PROPER TENSIONING.

D. ALL WELDING SHALL BE IN ACCORDANCE WITH LATEST AWS CODE. ALL WELDS SHALL USE E70XX ELECTRODES.

-COMPOSITE CONSTRUCTION SHALL MEET THE FOLLOWING:

A. ALL COMPOSITE BEAMS SHALL BE UNSHORED.

B. COMPOSITE SLAB SHEAR CONNECTORS AS INDICATED (QUANTITY) ON THE DRAWINGS SHALL BE 5/8" DIAMETER X (LENGTH SPECIFIED ON PLANS) HEADED STUDS AND SHALL BE SPACED EQUALLY ALONG THE CENTERLINE OF THE BEAM. WHERE SHEAR CONNECTORS ARE NOT CALLED FOR ON DRAWINGS, PROVIDE SHEAR CONNECTORS FOR ALL BEAMS SUPPORTING COMPOSITE SLABS AT 3'-0" O.C.

ANCHOR BOLTS:

1. ANCHOR BOLTS SHALL MADE FROM THREADED ROUND STOCK CONFORMING TO ASTM A36 STEEL.

2. ALL NUTS WITH ANCHOR BOLTS SHALL BE HEAD CONFORMING TO ASTM A536.

3. WASHERS FOR ALL BASE PLATES SHALL BE 1/4" THICL PLATE EXTENDING A MINIMUM 1" FROM EDGE OF PLATE HOLES ON EACH SIDE WITH HOLES 1/6" LARGER THAN THE NOMINAL BOTL DIAMETER. WASHER SHALL CONFORM TO ASTM A36 STEEL.

GROUTING OF PLATES:

1. PROVIDE GROUT OF THICKNEES AS REQUIRED AND 1/2" THICK STEEL LEVELING PLATES UNDER ALL COLUMN BASE PLATES. ANCHOR ALL COLUMNS TO PIERS, WALLS OR FOOTING WITH MINIMUM (2)-3/4" DIAMETER ANCHOR BOLTS x 1'-0" WITH 6" HOOK U.O.N.

2. GROUT STRENGTH AT 28 DAYS SHALL BE 10,000 PSI. APPLYING ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

MASONRY WALLS:

1. CONCRETE BLOCK MASONRY WALLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH f'm AS SCHEDULED AND COMPLY WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES": TMS 402/602.

2. THE CONCRETE BLOCK UNITS, TO BE TYPE II-NONMOISTURE CONTROLLED, CONFORMING TO ASTM C90, WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH AS SCHEDULED (AVERAGE OF THREE).

3. THE MORTAR SHALL COMPLY WITH ASTM C270, AND SHALL BE TYPE "S" WITH MINIMUM COMPRESSIVE STRENGTH AS SCHEDULED AT 28 DAYS.

4. GROUT FOR GROUTING CELLS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AS SCHEDULED AT 28 DAYS AND SHALL BE IN ACCORDANCE WITH WITH ASTM C476. GROUT TO HAVE A SLUMP BETWEEN 8" TO 11".

WALL TYPE:	UNIT STRENGTH (PSI)	MORTAR STRENGTH (PSI)	GROUT STRENGTH (PSI)	f'm DESIGN STRENGTH (PSI)
CMU-1	2000	2000	2000	2000
CMU-2	3250	3250	2500	2500
CMU-3	4500	4500	3000	3000

5. MASONRY WALLS SHALL BE REINFORCED HORIZONTALLY EVERY OTHER COURSE, WITH 9 GAUGE GALVANIZED, PREFABRICATED STEEL, DUR-O-WAL "LADDER TYPE", OR EQUAL. EXTEND 4" INTO ADJACENT COLUMNS.

6. FOR CORNER BARS SEE NOTE 13 AT TYPICAL BEAM DIAGRAM ON SCHEDULES SHEET.

7. PROVIDE CLEAN OUTS WHEN GROUTING BLOCK CELLS AND CLEAN OUT BLOCK CELLS OF ALL MORTAR DROPPINGS, MAXIMUM VERTICAL DROP FOR GROUTING IS 4'-0".

8. WHENEVER ANCHORS BOLTS ARE TO BE SET IN MASONRY. TWO CELLS AT THE SETTING LOCATION AND TWO COURSES ABOVE AND BELOW ANCHORS SHALL BE FILLED WITH GROUT.

PRECAST CONCRETE

-ALL PRECAST CONCRETE PRODUCTS SHALL BE DESIGNED IN ACCORDANCE WITH THE BUILDING CODE, ACI 318 LATEST EDITION REFERENCED IN THE BUILDING CODE AND PCI DESIGN HANDBOOK FIFTH EDITION. SHOP DRAWINGS AND CALCULATIONS OF PRECAST PRODUCTS AND CONNECTIONS SHALL BE SUBMITTED BEARING THE SEAL OF AN ENGINEER REGISTERED IN THE STATE. PRECAST/PRESTRESSED SUPPLIER SHALL BE CERTIFIED BY PCI.

-ADDITIONAL DESIGN REQUIREMENTS ARE:

A. BEARING PADS SHALL BE DESIGNED AND SUPPLIED BY THE PRECAST MANUFACTURER TO ABSORB ALL REQUIRED MOVEMENT WITHOUT SLIPPAGE. THE MINIMUM THICKNESS OF BEARING PADS SHALL BE 1/4" UNLESS NOTED OTHERWISE. BEARING PADS SHALL BE LOCATED A MINIMUM OF 1/2" AWAY FROM THE FACE OF THE SUPPORT.

B. MEMBERS SHALL NOT BE REMOVED FROM THE FORMS UNTIL THE CONCRETE HAS REACHED SUFFICIENT STRENGTH TO RESIST REMOVAL WITHOUT DAMAGE. IN NO CASE, SHALL PRECAST MEMBERS BE REMOVED PRIOR TO ATTAINING A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.

C. PRECAST MEMBERS AND THEIR CONNECTIONS SHALL BE DESIGNED FOR THE LOADS SHOWN ON THE DRAWINGS, IN ADDITION TO THE SELF WEIGHT OF THE MEMBER AND FOR ALL THE CONDITIONS NOTED IN ACI 318 LATEST EDITION. CONNECTIONS SHALL BE DESIGNED FOR FORCES AND MOVEMENTS DUE TO VOLUMETRIC CHANGES RESULTING FROM TEMPERATURE CHANGE, ELASTIC DEFORMATIONS, CREEP AND SHRINKAGE.
D. ALL WALL PANELS, SUPPORTED ON FOUNDATIONS, SHALL HAVE THE HORIZONTAL JOINT GROUTED WITH A NON-SHRINK GROUT WHICH HAS A COMPRESSIVE STRENGTH AT 28 DAYS EQUAL TO OR GREATER THAN THAT OF THE SUPPORTED MEMBER.

-MATERIALS SHALL MEET THE FOLLOWING REQUIREMENTS:

CONCRETE F'C	CMT	MIN. W/C PSI	MIN. ENT. FAC	MAX. RAT	AIR
EXT. WALL PANELS		5000	470	0.50	4%+/-1%

	ASTM	GRADE
REINFORCING	A615	60
REINFORCING BARS	A706	60
WELDABLE REINFORCING BARS	A706	60
WELDED WIRE FABRIC	A185	60

-CONTRACTOR TO COORDINATE ALL OPENING SIZES, LOCATIONS AND INSERTS PRIOR TO POURING THE PANELS. CONTRACTOR SHALL ENSURE THAT ALL BOND BREAKERS, FORMS, AND PANEL TEXTURE AS REQUIRED HAVE BEEN PROPERLY APPLIED AND PLACED.

-PANEL ERECTION AND REINFORCING SHOP DRAWINGS, SIGNED AND SEALED BY A REGISTERED ENGINEER IN THE STATE OF NEW MEXICO SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. THE CONTRACTOR IS RESPONSIBLE FOR THE ERECTION IS COMPLETED.
REQUIRED FOR STRESSES DUE TO TRANSPORTATION, HANDLING AND ERECTION. PANELS SHALL BE DESIGNED AND DESIGN OF ALL LIFTING AND BRACING INSERTS AND ANY ADDITIONAL PANEL AND INSERT REINFORCING THAT MAY BE DETAILED FOR LIFTING AND HANDLING CONDITIONS FOR AN EXPERIENCE PANEL LIFTING ENGINEER.
-TEMPORARY BRACING FOR PANELS SHALL NOT BE REMOVED UNTIL ALL FLOOR DIAPHRAGMS AND LATERAL LOAD CONNECTIONS ARE FULLY CONNECTED, WELDED AND INSTALLED.
-ALL LIFTING EMBEDS AND HARDWARE SHALL BE RECESSED AND THE RESULTING HOLES FILLED AS REQUIRED AFTER

COMPOSITE SOFFIT BEAM/JOIST SYSTEM:

-THIS IS A SYSTEM OF CUSTOM ENGINEERED COMPONENTS WHICH REQUIRES DESIGN AND SUBMITTALS TO BE SEALED BY A SPECIALTY ENGINEER. THE REVIEW OF ALL STRUCTURAL SUBMITTALS BY THE STRUCTURAL ENGINEER OF RECORD SHALL BE TO INSURE THAT HIS INTENT HAS BEEN UNDERSTOOD AND THAT THE SPECIFIED CRITERIA HAVE BEEN USED.
-JOIST SPACES SHOWN ON PLAN ARE TYPICAL TO SUPPORT UNIFORM LOADS WITHIN BAYS. ADJUST AS REQUIRED TO ACCOMMODATE OPENINGS, DEPRESSIONS, SPECIAL LOADINGS, AND TO FIT LAYOUT WITHIN A BAY. BEAM DEPTHS SHOWN ON PLANS AND SCHEDULES MAY BE REDUCED BY 1/4" OR INCREASED BY 1/2" IN DEPTH TO ACCOMMODATE SPECIFIC DETAILS OF STANDARD COMPONENTS.

-FIELD CUTTING OF PRECAST MEMBERS IS FORBIDDEN UNLESS THE SPECIALTY ENGINEER FURNISHES A SEALED DRAWING SHOWING THE CUT AND ALL REINFORCING, PRESTRESSING, AND EMBEDMENTS IN THE VICINITY OF THE CUT.
-ENTIRE SYSTEM SHALL BE DESIGNED AND DETAILED BY THE SUPPLIER FOR THE LOADS SHOWN AND SCHEDULED IN THE DRAWINGS. ADD WEIGHT OF MASONRY PARTITIONS TO SCHEDULED UNIFORM LOADS WHERE NO OTHER SPECIFIC LOADING PROVISIONS ARE GIVEN.
-INCLUDE DESIGNS AND DETAILING FOR CONNECTIONS, EXPANSION JOINT DEVICES, EMBEDMENTS WITHIN THE PRECAST SECTIONS, AND EMBEDMENTS IN CAST-IN-PLACE CONCRETE TO RECEIVE PRECAST MEMBERS INCLUDED IN THIS SECTION. ALL EMBEDDED PLATES SHALL BE HOT DIPPED GALVANIZED.
-DESIGN LOADS SHOWN ARE SERVICES LOADS. APPLY CODE REQUIRED MULTIPLIERS TO CONVERT TO FACTORED LOAD DESIGN.
-MATERIALS AND WORKMANSHIP SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF "FORMWORK", "CONCRETE REINFORCEMENT", AND "CAST-IN-PLACE CONCRETE".

-MATERIAL STRENGTHS SHALL BE AS FOLLOWS:

CONCRETE-NORMAL WEIGHT
AT RELEASE ..... F'c = 3500 KSI
AT 28 DAYS ..... F'c = 6000 PSI
MILD STEEL REINFORCEMENT ....ASTM A615(S1) .....FY = 60 KSI
STRESSING TENDONS..... ASTM A416.....FY = 270 KSI
STEEL SHAPE EMBEDMENTS..... ASTM A36.....FY = 36 KSI

COLD-FORMED STEEL FRAMING

CALCULATIONS ARE BASE ON "SSMA (STEEL STUD MANUFACTURER ASSOCIATION) PRODUCT TECHNICAL INFORMATION"

ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE.

STRUCTURAL DRAWINGS TYPICALLY SHOW ONLY THE PRIMARY STRUCTURAL FRAMING ELEMENTS OF THE SYSTEM. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES INCLUDING TRACKS, WEB STIFFENERS, BLOCKING, LINTELS, CLIP ANGLES, REINFORCEMENTS, FASTENING DEVICES, BRACING, AND OTHER ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE A COMPLETE FRAMING SYSTEM.

STEEL FOR 12, 14 AND 16 GAGE STUDS AND JOISTS SHALL HAVE MINIMUM YIELD STRENGTH OF 50 KSI. STEEL FOR ALL 18, 20 AND 25 GAGE STUDS AND JOISTS, ALL GAGES OF TRACK, ALL DIAGONAL TENSION STRAPS OR BRACES, AND BRIDGING SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. STEEL SHALL BE GALVANIZED OR THOROUGHLY COATED WITH RUST INHIBITIVE PAINT AT ALL LOCATIONS.

FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDS. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT.

ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, AND BEAM BEARING.

WALL STUD BRIDGING, AS RECOMMENDED BY THE STUD MANUFACTURER, SHALL BE INSTALLED TO PREVENT BOTH WEAK AXIS BENDING AND STUD ROTATION AT 4'-0" MAXIMUM INTERVALS. WALLS 8'-0" AND SHORTER SHALL HAVE A SINGLE ROW OF BRIDGING AT MID-HEIGHT. IN ADDITION, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND ELSEWHERE AS NOTED ON THE DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

SCREWS SHALL BE SELF-TAPPING PAN HEAD, HEX HEAD, OR WAFER HEAD SHEET METAL SCREWS. A SCREW OF A LARGER DIAMETER SHALL REPLACE SCREWS, WHICH ARE REMOVED, WHERE THE REPLACEMENT IS MADE INTO AN EXISTING HOLE. REPLACE ALL SCREWS, WHICH STRIP OUT MATERIAL. SCREWS SHALL BE SPACED NO CLOSER THAN 5/8 INCH ON CENTER AND WITH A MINIMUM FREE EDGE DISTANCE OF 1/2 INCH. CLIP ANGLES OR FLAT CLIPS USED FOR ATTACHMENTS SHALL BE 20 GAGE MINIMUM, UNLESS NOTED OTHERWISE. SIZE CLIP ANGLES AND FLAT CLIPS TO MAINTAIN MINIMUM SCREW SPACING AND EDGE DISTANCES NOTED ABOVE. ALL SCREWS #8 AND LARGER SHALL HAVE A MINIMUM HEAD SIZE OF 5/16 INCH.

ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE, STRUCTURAL STEEL FRAMING WORK.

STUDS SIZE WHERE NOT SPECIFICALLY NOTED ON DETAILS SHALL BE 1-5/8 INCH WIDE BY 3-1/2 INCH DEEP BY 20 GAGE MINIMUM. TRACK SIZE WHERE NOT SPECIFICALLY NOTED ON DETAILS SHALL BE 1" WIDE BY 3-1/2 INCH BY 20 GAGE MINIMUM.

JOISTS, STUDS, TRACK, ETC., SHALL HAVE STEEL THICKNESS AND EFFECTIVE SECTION PROPERTIES AS LISTED IN THE METAL STUD MANUFACTURERS ASSOCIATION MANUAL.

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STRUCTURAL SHEATHING AT ROOF:

1. ROOF SHATHING SHALL BE "APA RATED SHEATHING EXP 3/4" THICK.

2. SHEATHING SHALL BE CONTINUOUS OVER TWO OR MORE SPANS WITH FACE GRAIN PERPENDICULAR TO SUPPORS.

3. MINIMUM NAILING REQUIREMENTS SHALL BE AS FOLLOWS:

ROOF: USE 8d RING SHANK NAILS WITH 19/32", NAIL SPACING SHALL BE 4" O.C. AT PANELS EDGES AND 4" AT INTERMEDIATE SUPPORTS (BASED ON A SUPPORT SPACING OF 24" O.C.) NAIL SPACING SHALL SHALL BE AT 4" O.C. AT GABLE ENDS AT PANEL EDGES AND AT INTERMEDIATE SUPPORTS.

WOOD MEMBERS:

-ALL STRUCTURAL LUMBER SHALL CONFORM TO THE ANSI/NFOPA NDS-12 "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" OF THE AMERICAN FOREST AND PAPER ASSOCIATION BE IN ACCORDANCE TO ASTM D2555, ASTM D245 AND ASTM D1990.

-ALL DIMENSION LUMBERS 2" AND LESS IN NOMINAL THICKNESS SHALL BE 4 SURFACED DRY AND STAMPED BY AN AGENCY CERTIFIED BY THE BOARD OF REVIEW OF THE AMERICAN LUMBER STANDARDS COMMITTEE AND MANUFACTURED IN ACCORD WITH PS 20-70. MEMBERS THICKER THAN 2" NOMINAL MAY BE SURFACED GREEN.

-ALL WOOD MEMBERS TO BE SOUTHERN PINE No. 2 OR BETTER. FABRICATION, ERECTION AND CONNECTIONS TO BE AS PER RECOMMENDATIONS OF THE A.C.T.C. (AMERICAN INSTITUTE OF TIMBER CONSTRUCTION), LATEST EDITION.

-NOTE: ZERO (0) PER CENT (%) STRESS INCREASE FOR LUMBER AND PLATES.

-ALL STUDS AND HEADER SHOULDERS SHALL BE ONE PIECE BETWEEN PLATES AND/OR HEADERS. DO NOT USE BLOCKING BETWEEN HEADERS AND SHOULDER WITH SOFTER COMPRESSION PERPENDICULAR (FCP) THAN REQUIRED FOR HEADER. DO NOT CUT LET-IN BRACING INTO STUDS. PROVIDE G90 GALVANIZED HURRICANE CLIPS IN ACCORD WITH LOCAL CODE AT ALL ROOF ANCHORAGES AND AT ALL FLOORS.

-TREAT ALL FRAMING IN CONTACT WITH CONCRETE OR MASONRY IN ACCORD WITH AMERICAN WOOD PRESERVER'S BUREAU LP-2 OR PROVIDE 1/4" THICK 60 DUROMETER BEARING PAD BETWEEN CONCRETE OR MASONRY AND UNTREATED WOOD MEMBER. ALL LUMBER PERMANENTLY INSTALLED SHALL BE NATURALLY TERMITE RESISTANT OR TREATED ACCORDINGLY.

-GENERAL CONTRACTOR TO PROVIDE PERMANENT LATERAL BRACING OF THE BOTTOM CHORD AND THE WEB MEMBERS IN ACCORDANCE WITH RECOMMENDATIONS OF TRUSS PLATE INSTITUTE. BWT-76 AND THE REQUIREMENTS OF THE INDIVIDUAL TRUSS DESIGNS.

-ALL WOOD MEMBERS SHALL BE PRESSURE-TREATED WOOD U.N.O, ACCORDING WITH PROVISIONS IN FBC 2326.2

DESIGN LOAD & CRITERIA

DESIGN CODES	BUILDING CODES	FLORIDA BUILDING CODE (2020 EDITION) ASCE 7-16			
	STRUCTURAL STEEL	AISC 360-16 AISC 341			
	STEEL DECK	SDI			
	LIGHT GAGE STEEL FRAMING	AISI S100-16			
	CONCRETE	ACI 318-14 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.			
	PRECAST CONCRETE	P.C.I. DESIGN HANDBOOK			
WIND	RISK CATEGORY	IV			
	BASIC WIND SPEED (3 SECOND GUST)	V = 200 M.P.H. Vult = 200 M.P.H. Vasd = 150 M.P.H.			
	EXPOSURE CATEGORY	"D"			
	DIRECTIONALITY FACTOR	Kd = 0.85			
	TOPOGRAPHIC FACTOR	Kzt = 1.0			
GRAVITY	LOCATION	LIVE LOAD		SUPERIMPOSED DEAD LOAD	
		UNIFORM	CONCENTRATED	UNIFORM	CONCENTRATED
	ROOF	30 PSF		30 PSF	
	ASSEMBLY AREA	100 PSF		30 PSF	
	OFFICES	50 PSF	2000 LB	30 PSF	
	CORRIDORS	100 PSF	2000 LB	30 PSF	
	STAIRS	100 PSF	300 LB	20 PSF	
	MECHANICAL ROOMS	125 PSF	2000 LB	30 PSF	
	BALCONIES	100 PSF		20 PSF	
	LIVE LOAD REDUCTION HAS NOT BEEN USED. DEAD LOAD IN ADDITION TO FLOOR SYSTEM LOADS. NO STRESS INCREASE HAS BEEN USED.				

THIS BUILDING IS LOCATED IN A HVHZ (HIGH VELOCITY HURRICANE ZONE) WIND BORN DEBRIS REGION AND HAS BEEN DESIGNED AS ENCLOSED. ALL PARTS OF THE BUILDING ENVELOPE, INCLUDING BUT NOT LIMITED TO, CLADDING SYSTEMS, EXTERIOR DOORS AND WINDOWS, SKYLIGHTS, AND GLASS BLOCK MEMBERS SHALL MEET IMPACT TEST CRITERIA OR BE PROTECTED WITH AN EXTERNAL PROTECTION DEVISE THAT HAS BEEN TESTED AND MEETS THE IMPACT TEST CRITERIA IN ACCORDANCE WITH SECTION 1626 OF THE FLORIDA BUILDING CODE AND SHALL HAVE A CURRENT NOTICE OF ACCEPTANCE (NOA).

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

seal

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THRESHOLD INSPECTION NOTES

PART I SCOPE OF WORK

THIS PLAN DESCRIBES WORK REQUIRED TO COMPLY WITH THE THRESHOLD LAW CHAPTER 553 OF THE FLORIDA STATUTES. THE OWNER SHALL RETAIN A QUALIFIED SPECIAL INSPECTOR TO PERFORM THE WORK DESCRIBED HEREIN. PROPOSALS FOR SPECIAL INSPECTION SERVICES SHALL BE SEPARATE AND INDEPENDENT FROM ALL OTHER PROPOSALS, FOR MATERIAL TESTING AND OTHER QUALITY ASSURANCE SERVICES. THE ENGINEER OF RECORD MAY ACT AS THE SPECIAL INSPECTOR. THE SPECIAL INSPECTOR SHALL VERIFY THAT THE PRIMARY STRUCTURAL FRAME (ALL THOSE MEMBERS WHICH TRANSMIT LOADS TO THE GROUND) IS CONSTRUCTED IN SUBSTANTIAL ACCORDANCE WITH THE PERMITTED OFFICIAL CONTRACT DOCUMENTS, EXCEPT AS VARIATIONS THERE FROM ARE PERMITTED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD. THIS PLAN MAY BE SUPPLEMENTED BY ADDITIONAL REQUIREMENTS OF THE MUNICIPALITY (ENFORCING AGENCY) OR BY THE OWNER AS DEEMED NECESSARY DURING THE COURSE OF THE WORK. THIS DOES NOT INCLUDE INSPECTION OF ANY SAFETY PROVISIONS AS REQUIRED BY OSHA OR OTHER SAFETY STANDARDS WHICH APPLY DURING THE CONSTRUCTION PERIOD, TO ELEMENTS SUCH AS RAILINGS, FIRE PROTECTION, ROOFING, GLAZED WINDOW SYSTEMS, ARCHITECTURAL PRECAST PANELS, MECHANICAL/ELECTRICAL SYSTEMS, ARCHITECTURAL COMPONENTS, SITE WORK AND OTHER ELEMENTS NOT CONTRIBUTING TO THE CAPACITY OF THE PRIMARY STRUCTURAL BUILDING FRAME. THE OFFICIAL CONTRACT DOCUMENTS ARE DEFINED AS THE PERMITTED PLANS, RECORDED ADDENDA, PROJECT SPECIFICATIONS, AMENDMENTS AND THE STRUCTURAL INSPECTION PLAN.

QUALIFICATIONS OF THE SPECIAL INSPECTOR

1. THE SPECIAL INSPECTOR SHALL BE A FLORIDA REGISTERED ENGINEER EXPERIENCED IN STRUCTURAL ENGINEERING AND CERTIFIED AS REQUIRED BY CURRENT LEGISLATION. THE SPECIAL INSPECTOR MAY SEND A FULL TIME EMPLOYEE AS HIS AUTHORIZED REPRESENTATIVE TO THE PROJECT, BUT THAT PERSON SHALL BE EXPERIENCED AND KNOWLEDGEABLE IN THE STRUCTURAL SYSTEM BEING USED AND THE IN APPROPRIATE PORTIONS OF THE GOVERNING CODES AND STANDARDS.

2. THE SPECIAL INSPECTOR SHALL HAVE A MINIMUM OF SEVEN (7) YEARS OF EXPERIENCE IN DESIGN AND INSPECTION OF SIMILAR STRUCTURES. THE SPECIAL INSPECTOR'S REPRESENTATIVE SHALL HAVE A MINIMUM OF THREE (3) YEARS OF EXPERIENCE IN INSPECTION OF SIMILAR STRUCTURES. RESUMES OF BOTH SPECIAL INSPECTOR AND SPECIAL INSPECTOR'S REPRESENTATIVE SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE, THE ENFORCING AGENCY HAVING JURISDICTION AND THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE. AS USED HEREIN THE TERM SPECIAL INSPECTOR INCLUDES THE AUTHORIZED REPRESENTATIVE, UNLESS OTHERWISE INDICATED. INSOFAR AS POSSIBLE, THE SPECIAL INSPECTOR SHALL NOT BE CHANGED THROUGHOUT THE DURATION OF THE PROJECT.

3. THE SPECIAL INSPECTOR IS TO PROVIDE THE OWNER INSURANCE CERTIFICATES FOR ALL APPLICABLE COVERAGE'S, INCLUDING PROFESSIONAL LIABILITY, SPECIFICALLY COVERING SUCH SPECIAL INSPECTION ASSIGNMENTS; GENERAL LIABILITY; AUTOMOBILE COVERAGE; WORKMEN'S COMPENSATION AND ANY OTHER APPROPRIATE COVERAGE.

RESPONSIBILITIES AND LIMITATIONS OF THE SPECIAL INSPECTOR

1. THE SPECIAL INSPECTOR IS RESPONSIBLE TO THE ENFORCING AGENCY HAVING JURISDICTION FOR THIS PROJECT. THE PRESENCE OF THE SPECIAL INSPECTOR DOES NOT RELIEVE THE ENFORCING AGENCY, THE ARCHITECT OR THE STRUCTURAL ENGINEER OF RECORD OF THEIR RESPONSIBILITIES.

2. PRIOR TO STARTING WITH THE WORK, THE SPECIAL INSPECTOR AND THE AUTHORIZED REPRESENTATIVE SHALL BECOME FAMILIAR WITH THE SPECIFIC STRUCTURAL COMPONENTS AND SYSTEMS, WHICH THE SPECIAL INSPECTOR WILL BE RESPONSIBLE FOR INSPECTING. HE IS RESPONSIBLE FOR A THOROUGH KNOWLEDGE OF THE INTENT AND CONTENT OF THE CONTRACT DOCUMENTS AND ACCEPTED SUBMITTALS RELATING TO HIS INSPECTION RESPONSIBILITIES, APPROPRIATE PORTIONS OF THE GOVERNING CODES, AND THE EXERCISE OF GOOD JUDGMENT.

3. THE SPECIAL INSPECTOR SHALL THEN PROVIDE A CERTIFIED AFFIDAVIT TO THE OWNER AND STRUCTURAL ENGINEER OF RECORD ATTESTING TO THE FOLLOWING:
   A. HE HAS REVIEWED THE CONTRACT DOCUMENTS AND UNDERSTANDS THEIR CONTENT AND THE CONCEPT CONVEYED THEREIN.
   B. HE HAS READ THE STRUCTURAL INSPECTION PLAN, UNDERSTANDS ITS INTENT AND INTENDS TO COMPLY WITH ITS REQUIREMENTS.

4. THE SPECIAL INSPECTOR IS RESPONSIBLE FOR OBSERVING THE CONSTRUCTION OF THE PRIMARY STRUCTURAL COMPONENTS AND REPORTING TO THE CONCERNED PARTIES THAT THOSE PORTIONS OF THE STRUCTURE ARE BEING BUILT IN GENERAL CONFORMANCE WITH THE STRUCTURAL DOCUMENTS, AND IF NOT, THE LOCATION AND DESCRIPTIONS OF THOSE VARIATIONS.

5. THE SPECIAL INSPECTOR SHALL COOPERATE WITH THE CONTRACTOR BUT SHALL NOT DIRECT THE CONTRACTOR'S WORK NOR BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS.

CONTRACTOR REQUIREMENTS

1. THE CONTRACTOR SHALL COOPERATE WITH AND ASSIST THE SPECIAL INSPECTOR IN PERFORMING HIS INSPECTION DUTIES AS SPECIFIED HEREIN. THE SPECIAL INSPECTOR SHALL HAVE FREE ACCESS TO THE PROJECT AT ALL TIMES.

2. THE CONTRACTOR SHALL ADVISE THE SPECIAL INSPECTOR, IN ADVANCE, OF CONSTRUCTION SCHEDULES AND PLANNED OPERATIONS IN ORDER TO ASSURE TIMELY AND APPROPRIATE OBSERVATION AND INSPECTION OF ITEMS SPECIFIED HEREIN. THE MINIMUM NOTICE GIVEN THE SPECIAL INSPECTOR SHALL BE 24 HOURS PRIOR TO THE TIME OF THE INSPECTION. FURTHER, THE SCHEDULED INSPECTION TIME FOR REINFORCING STEEL SHALL BE NOT LESS THAN ONE HOUR PRIOR TO THE SCHEDULED CONCRETE PLACEMENT.

3. THE CONTRACTOR SHALL FURNISH IN A TIMELY MANNER TO THE SPECIAL INSPECTOR, COPIES OF ALL REVIEWED AND ACCEPTED SUBMITTALS (EXCLUDING CALCULATIONS) FOR THE STRUCTURAL ELEMENTS OF THE PROJECT.

4. THE CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR WITH OFFICE FACILITIES AT THE CONSTRUCTION SITE TO ACCOMMODATE HIS NEEDS. AS A MINIMUM, THIS OFFICE, IS TO BE EQUIPPED WITH THE FOLLOWING ITEMS: DESK, CHAIR, PLAN TABLE, PLAN RACK, FILING CABINET, TELEPHONE, UTILITIES, AIR CONDITIONING AND JANITORIAL SERVICES.

5. SPECIAL INSPECTIONS DO NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS, ANY STATUTORY OR CONTRACTUAL OBLIGATIONS, NOR HIS RESPONSIBILITIES TO CARRY OUT HIS QUALITY CONTROL INSPECTIONS AND TESTING. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE OFFICIAL CONTRACT DOCUMENTS AND THE COSTS OF RECTIFYING THOSE DEVIATIONS.

6. WORK WHICH IS IN NON-COMPLIANCE WITH THE OFFICIAL CONTRACT DOCUMENTS MAY BE CORRECTED BY THE CONTRACTOR OR THE CONTRACTOR MAY SUBMIT TO THE ARCHITECT/ ENGINEER A REQUEST FOR ACCEPTANCE OF THE DEVIATION.

7. CONSTRUCTION PERFORMED WITHOUT INSPECTION AND THAT IS UNABLE TO BE INSPECTED MAY REQUIRE TESTING OR REMOVAL AS DETERMINED BY THE STRUCTURAL ENGINEER OF RECORD.

8. THE SPECIAL INSPECTOR CAN NOT MAKE THE REQUIRED COMPLETION STATEMENT AND THE BUILDING WILL NOT RECEIVE A CERTIFICATE OF OCCUPANCY IF WORK IS NOT IN SUBSTANTIAL ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS, OR IF CONSTRUCTION IS PERFORMED WITHOUT INSPECTION AND IS UNABLE TO BE INSPECTED.

9. INSTALLATION OF ALL SHORING AND RE-SHORING SHALL BE IN ACCORDANCE WITH THE SIGNED AND SEALED SHORING AND RE-SHORING DRAWINGS PREPARED BY THE DELEGATED SHORING ENGINEER. (SEE STRUCTURAL NOTES FOR COMPLETE REQUIREMENTS). THE DELEGATED SHORING ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL INSPECT AND ENSURE THAT THE DRAWING REQUIREMENTS AND SPECIFICATIONS ARE ADHERED TO, AND PROVIDE HIS WRITTEN REPORT TO THE SPECIAL INSPECTOR PRIOR TO ALL CONCRETE POURS. THE SPECIAL INSPECTOR IS TO VERIFY THAT THE INSPECTION IS PERFORMED AND IS TO OBSERVE THAT THE WORK APPEARS TO BE IN COMPLIANCE WITH THE DRAWINGS.

REPORTING

1. THE SPECIAL INSPECTOR SHALL MAINTAIN A RECORD OF THE PROGRESS, WORKING CONDITIONS, OBSERVATIONS, TESTING, ANY REQUIRED ACTION BY THE CONTRACTOR, AND DEVIATIONS FROM THE OFFICIAL CONTRACT DOCUMENTS. SUCH RECORDS ARE TO BE KEPT BY THE SPECIAL INSPECTOR FOR A MINIMUM OF 7 YEARS AFTER COMPLETION OF THE PROJECT.

2. IT IS THE DUTY OF THE SPECIAL INSPECTOR TO IMMEDIATELY NOTIFY THE CONTRACTOR IN PERSON, AND THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD BY TELEPHONE, OF THE FOLLOWING:
   A. THE USE OF MATERIALS, TESTS, EQUIPMENT, WORKMANSHIP OR CONSTRUCTION NOT CONFORMING TO THE OFFICIAL CONTRACT DOCUMENTS.
   B. CONSTRUCTION PERFORMED WITHOUT INSPECTIONS AND NOT CAPABLE OF BEING INSPECTED OR TESTED IN PLACE. THESE EXCEPTIONS SHALL THEN BE ISSUED IN WRITING IMMEDIATELY TO THOSE LISTED ABOVE AND ATTACHED TO THE DAILY FIELD REPORTS.

3. THE SPECIAL INSPECTOR SHALL KEEP AN EXCEPTION FILE FOR FOLLOW-UP. THIS FILE SHALL BE REVIEWED ON A DAILY BASIS AND UPDATED AS EXCEPTIONS ARE RECTIFIED. ANY UNCORRECTED EXCEPTIONS SHALL BE REPORTED AT AN APPROPRIATE TIME, USING A NON-COMPLIANCE NOTICE, TO THE CONTRACTOR, ENFORCING AGENCY, OWNER'S REPRESENTATIVE AND ARCHITECT/ENGINEER.

4. THE SPECIAL INSPECTOR SHALL WRITE AND SIGN A REPORT EACH DAY AN INSPECTION IS MADE. THE REPORT SHALL CONSIST OF THE FOLLOWING: A. IDENTIFY NAME AND LOCATION OF PROJECT, NAME OF SPECIAL INSPECTOR AND SPECIAL INSPECTOR REPRESENTATIVE, PERMIT NUMBER, DATE, WORKING CONDITIONS INCLUDING WEATHER AND TEMPERATURE, AND TYPE AND LOCATION OF WORK BEING PERFORMED. B. A DETAILED REPORT OF EACH INSPECTION, INCLUDING THE PRESENCE AND ACTIVITIES OF THE TESTING AGENCY NOTE CHANGES IN WORKING SEQUENCE OR MATERIALS AND ANY UNUSUAL CIRCUMSTANCES AFFECTING THE PERFORMANCE OR WORK. PLACE EMPHASIS ON THOSE AREAS WHERE DEFICIENCIES RECUR. C. REVIEW AND COMMENT ON THE MATERIALS TESTING REPORTS PRIOR TO THAT DAY'S INSPECTION.

5. THE REPORT WILL BE SUPPLEMENTED WITH THE FOLLOWING, WHEN APPLICABLE:
   A. SPECIAL RECORDS (WELD TESTS, WELDERS CERTIFICATE CONCRETE TESTS, ETC.).
   B. INSPECTION REPORTS OF THE SHORING AND RE-SHORING ENGINEER.
   C. INSPECTION REPORTS OF THE GEOTECHNICAL ENGINEER
   D. DOCUMENTATION OF CHANGES MADE IN THE FIELD. E. PHOTOGRAPHS.

6. DAILY FIELD REPORTS SHALL BE SUBMITTED ON A WEEKLY BASIS TO THE ENFORCING AGENCY, OWNER'S REPRESENTATIVE, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD, UNDER A COVER LETTER SIGNED AND SEALED BY THE SPECIAL INSPECTOR.

7. AN INSPECTION LOG SUMMARIZING ALL INSPECTIONS SHALL BE POSTED AT THE JOB SITE AND FILLED OUT EACH DAY AN INSPECTION IS MADE. IT SHALL CONTAIN, AS A MINIMUM: PROJECT NAME, LOCATION, PERMIT NUMBER, SPECIAL INSPECTOR'S NAME, OWNER, CONTRACTOR, DATE OF INSPECTION, CONSTRUCTION PHASE, WORK DESCRIPTION, COMMENTS, APPROVED OR REJECTED AND BE SIGNED BY THE SPECIAL INSPECTOR.

8. UPON COMPLETION OF THE BUILDING AND PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE SPECIAL INSPECTOR SHALL SUBMIT TO THE ENFORCING AGENCY, OWNER, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD A SIGNED AND SEALED STATEMENT STATING THAT THE PART OF THE PROJECT UNDER HIS INSPECTION RESPONSIBILITIES HAS BEEN CONSTRUCTED IN SUBSTANTIAL ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 553.79(7)A OF THE FLORIDA STATUTES.

9. SINCE THE SPECIAL INSPECTOR DOES NOT CERTIFY THAT THE OFFICIAL CONTRACT DOCUMENTS ARE IN COMPLIANCE WITH THE GOVERNING CODES, ALL STATEMENTS ISSUED WILL REFER TO COMPLETED WORK IN SUBSTANTIAL ACCORDANCE WITH THE OFFICIAL CONTRACT DOCUMENTS.

REQUIREMENTS OF THE OWNER

1. THE OWNER SHALL ARRANGE FOR ALL NECESSARY CONTRACT DOCUMENTS, INCLUDING TWO COMPLETE SETS OF ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR THE PROJECT, INCLUDING ALL DRAWINGS AND SPECIFICATIONS, THE GEOTECHNICAL REPORT AND MATERIALS TEST REPORTS, TO BE FURNISHED TO THE SPECIAL INSPECTOR DURING THE PROGRESS OF THE WORK IN A TIMELY MANNER. PROVIDE THE SPECIAL INSPECTOR WITH TWO COPIES OF ALL STRUCTURAL CHANGES, REVISIONS, ADDENDA, ETC.

2. THE OWNER SHALL ENSURE THAT THE CONTRACTOR PROVIDES TO THE ENFORCING AGENCY, ARCHITECT, STRUCTURAL ENGINEER OF RECORD AND THE SPECIAL INSPECTOR A SHORING AND RE-SHORING PLAN WHICH IS SIGNED AND SEALED BY A DELEGATED ENGINEER REGISTERED IN THE STATE OF FLORIDA.

3. THE OWNER SHALL ENSURE THAT A QUALIFIED TESTING AGENCY IS RETAINED. SEE CONTRACT DOCUMENTS FOR REQUIREMENTS. 4. THE OWNER SHALL ENSURE THAT A GEOTECHNICAL CONSULTANT IS RETAINED TO CONFIRM THAT THE SPECIFIED FOUNDATION PREPARATION IS PERFORMED.

PART II GENERAL

THE FOLLOWING IS A GENERAL INSPECTION PLAN DESCRIBING WORK TO BE PERFORMED BY THE SPECIAL INSPECTOR. THE INTENT IS TO DESCRIBE MINIMUM LEVELS NECESSARY TO CONFIRM THAT WORK COMPLIES WITH THE DESIGN DOCUMENTS. THE FOLLOWING ARE NOT INSPECTOR CHECK LISTS BUT POINT OUT SOME CRITICAL AREAS REQUIRING SPECIFIC ATTENTION BY THE SPECIAL INSPECTOR.

FOUNDATIONS

1. SHALLOW OR DEEP FOUNDATIONS:
   A. THE GEOTECHNICAL CONSULTANT RETAINED BY THE OWNER WILL INSPECT SHALLOW OR DEEP FOUNDATIONS AND ALL FOOTING AREAS TO CONFIRM THAT SPECIFIED DESIGN SOIL CAPACITIES ARE MET. THE GEOTECHNICAL CONSULTANT WILL FURNISH THE SPECIAL INSPECTOR WITH DAILY REPORTS AS WELL AS A SUMMARY REPORT, SIGNED AND SEALED BY A FLORIDA P.E., STATING THAT THE FOUNDATION PREPARATION WAS COMPLETED ACCURATELY AND COMPLETELY SO AS TO ALLOW THE FOUNDATION TO FUNCTION AS INTENDED.
   B. THE TESTING AGENCY RETAINED BY THE OWNER WILL MONITOR AND TEST BACKFILL AND COMPACTION OPERATIONS. THE TESTING AGENCY WILL SUBMIT A COPY OF REPORTS ON THESE OPERATIONS TO THE SPECIAL INSPECTOR, SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

2. FOOTINGS:
   A. REVIEW CONFIGURATION AND PLACEMENT OF REINFORCEMENT FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. OBSERVE THAT CLEARANCES ARE PROPERLY MAINTAINED.
   B. REVIEW DOWEL AND LAP SPLICE LENGTHS FOR COMPLIANCE WITH THE CONTRACT DOCUMENT.
   C. OBSERVE CONCRETE PLACEMENT AS OUTLINED IN THE CAST-IN-PLACE CONCRETE SECTION OF THIS INSPECTION PLAN.

REINFORCED CONCRETE

1. THE CONTRACTOR IS TO NOTIFY THE SPECIAL INSPECTOR A MINIMUM OF 24 HOURS PRIOR TO THE PLACEMENT OF ANY STRUCTURAL CONCRETE.

2. REINFORCING STEEL:
   A. USING THE STRUCTURAL DRAWINGS, INSPECT GRADE, SIZE, QUANTITY, CONFIGURATION AND SPACING OF REINFORCING FOR COMPLIANCE WITH THE STRUCTURAL DRAWINGS SUPPLEMENTED WITH SHOP DRAWINGS. PRIOR TO CONCRETE PLACEMENT REPORT ANY NOTED CONFLICT AND CONFIRM THAT CORRECTIONS ARE MADE BEFORE CONCRETE IS POURED.
   B. CHECK MINIMUM CLEARANCE REQUIREMENTS FROM CONCRETE SURFACES.
   C. CHECK THAT REINFORCING IS ADEQUATELY SUPPORTED AND TIED TO RESIST DISPLACEMENT OR SHIFTING DURING POUR.
   D. CHECK THAT REBAR SURFACES ARE FREE OF EXCESS RUST OR OTHER COATINGS THAT MAY ADVERSELY AFFECT BONDING CAPACITY. IF OILING OF FORMS IS REQUIRED, CHECK THAT IT IS APPLIED BEFORE REINFORCING IS PLACED.
   E. CHECK SPLICE LOCATIONS AND REQUIRED LENGTH OF LAP. CHECK THAT THE ACCEPTED MECHANICAL COUPLERS ARE PROPERLY INSTALLED PER MANUFACTURER'S SPECIFICATIONS. REPORT ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS BEFORE CONCRETE IS CAST AND CONFIRM THAT CORRECTIONS ARE MADE.
   F. CHECK INSTALLATION OF HOOKED BARS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.

3. COLUMNS:
   INSPECT REINFORCING STEEL, DOVETAIL SLOTS AND OTHER EMBEDDED ITEMS. CHECK THE SPACING, ESPECIALLY DOUBLE TIES AND TIES AT DEEP BEAM INTERSECTIONS.

4. BEAMS:
   INSPECT REINFORCING STEEL. CHECK TIE SPACING, INCLUDING LOCATION OF FIRST TIE. CHECK FOR HOOKED BOTTOM BARS. CHECK THAT HOOKED BARS EXTEND TO FAR FACE OF SUPPORT.

5. ONE WAY SLABS:
   INSPECT REINFORCING STEEL, INCLUDING TEMPERATURE STEEL. CHECK THAT HOOKED BARS EXTEND TO FAR FACE OF SUPPORT.

6. TWO WAY SLABS:
   INSPECT REINFORCING STEEL. CHECK FOR PROPER LAYERING. CHECK PLACEMENT OF TOP BARS THROUGH COLUMN STRIP FOR UNIFORM SPACING (BARS ARE NOT TO BE TIED TOGETHER).CHECK THAT ADDED TOP BARS ARE PLACED WITHIN THE VICINITY OF THE COLUMN. CHECK THAT ADDED BOTTOM BARS EXTEND TO FACE OF COLUMN, UNLESS OTHERWISE SHOWN ON CONTRACT DOCUMENTS, AND THAT THEY ARE WITHIN THE COLUMN STRIP. CHECK HOOK BAR REQUIREMENTS, BOTH TOP AND BOTTOM. CHECK THAT HOOKS ARE PLACED AT FAR FACE OF SUPPORT. CHECK POSITION OF BARS AT SLAB OFFSETS AND DEPRESSIONS.

7. PRECAST/PRESTRESSED COMPOSITE CONCRETE:
   A. VERIFY THAT THE PRECAST UNITS ARE LOCATED AT THE PROPER PLACE IN THE STRUCTURE BY CONFIRMING THE MARK NUMBER WITH THAT SHOWN ON THE SHOP DRAWINGS.
   B. VERIFY PRECAST REINFORCING. THE REINFORCING FOR THE PRECAST, PRESTRESSED COMPOSITE JOISTS AND SOFFIT BEAM SYSTEM IS DESIGNED AND DETAILED BY THE PRECAST MANUFACTURER. THEREFORE, THE SHOP DRAWINGS MUST BE USED TO VERIFY STEEL QUANTITIES AND PLACEMENT. THE NUMBER OF STRANDS PROVIDED IN EACH UNIT SHOULD BE VERIFIED BY COUNTING THE NUMBER OF STRANDS AT THE END OF THE UNIT. DUE TO PRODUCTION REQUIREMENT, SOME UNITS MAY CONTAIN MORE STRANDS THAN SHOWN ON THE SHOP DRAWINGS; HOWEVER, IN NO INSTANCE SHOULD A UNIT BE ACCEPTED CONTAINING LESS STANDS THAN THAT SHOWN ON THE SHOP DRAWINGS. ADDITIONALLY, SHEAR REINFORCING CONTAINED IN THE PRECAST SOFFIT SHOULD BE INSPECTED FOR SIZE, GRADE, SPACING, AND HEIGHT. THE SPACING OF SHEAR REINFORCING MAY BE WITHIN + 2", PROVIDED THE AVERAGE SPACING WITHIN A DISTANCE OF 1/2 THE DEPTH OF THE BEAM DOES NOT EXCEED THE SPECIFIED SPACING BY MORE THAN 1/2". FOR EXAMPLE, IF THE SHEAR REINFORCEMENT IS TO BE SPACED AT 4" ON CENTER, A SPACING OF 2", 6" AND 2" WOULD BE ACCEPTABLE. THE HEIGHT TOLERANCE OF THE SHEAR STEEL IS + 1/2" AND -1/2" FOR BEAMS LESS THAN 24 INCHES DEEP AND -1" FOR DEEPER BEAMS.
   C. CHECK CONNECTIONS FOR EMBEDDED ITEMS REQUIRED IN STRUCTURE. PAY PARTICULAR ATTENTION TO FIELD-PLACED REINFORCEMENT PLACED AT CAZALY HANGER SEATS. VERIFY THAT REQUIRED REINFORCING EXTENDS FROM ENDS OF PRECAST MEMBERS. REFER TO DETAILS ON STRUCTURAL DRAWING AND ON SHOP DRAWINGS.
   D. VERIFY SHEAR FRICTION REINFORCING ("F" BARS) FOR SOFFIT BEAMS AND MINIMUM BEARING LENGTH OF JOIST AND CAZALY HANGERS. THESE REQUIREMENTS ARE SHOWN ON THE STRUCTURAL DRAWINGS. "F" BARS ARE TO BE PLACED DIRECTLY ON TOP OF THE SOFFIT, NOT CHAIRED.
   E. CHECK THAT MEMBER DIMENSIONS, INCLUDING LENGTH, DEPTH, WIDTH, CAMBER, AND SIDE BOW, ARE WITHIN ALLOWABLE TOLERANCES.

8. CHECK THAT EXPANSION JOINT MATERIAL, ANCHORS AND OTHER EMBEDDED ITEMS ARE CORRECT AND HAVE BEEN POSITIONED AND SECURED IN PLACE SO THAT DISPLACEMENT IS NOT POSSIBLE.
   A. CHECK THAT CONDUITS PLACED IN THE SLAB ARE REASONABLY SPACED TO ENSURE INTEGRITY OF THE SLAB.
   B. CONFIRM THAT LOAD CARRYING EMBEDDED ITEMS ARE PLACED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS. RELOCATION OF EMBEDDED ITEMS IN CONFLICT WITH REINFORCING WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ARCHITECT/ENGINEER.

9. CHECK THAT CONSTRUCTION JOINTS, INCLUDING DOWELS, KEYS AND BULKHEADS, ARE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. REVIEW THE LOCATION OF CONSTRUCTION JOINTS IN BEAMS AND SLABS FOR COMPLIANCE WITH THE CONSTRUCTION JOINT LOCATION PLAN SUBMITTED BY THE CONTRACTOR TO THE ENGINEER.

10. OPENINGS:
    REPORT ALL SLAB OPENINGS LARGER THAN 12" AND NOT SHOWN ON THE CONTRACT DOCUMENTS TO THE ARCHITECT/ENGINEER. CHECK PLACEMENT OF ADDITIONAL REINFORCEMENT AROUND OPENINGS. NO SLEEVES OR OPENINGS WILL BE PERMITTED IN BEAMS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

11. CHECK THAT ALL FOREIGN MATERIAL HAS BEEN REMOVED FROM SPACES WHICH CONCRETE IS TO OCCUPY.

12. THE SPECIAL INSPECTOR SHALL BE ON SITE WHEN CONCRETE IS BEING PLACED FOR THE PRIMARY STRUCTURAL FRAME AS NECESSARY TO ASCERTAIN THAT PROPER CONCRETING PRACTICES, AS REQUIRED BY ACI 301, ASTM C94 AND OTHER RECOGNIZED INDUSTRY STANDARDS ARE FOLLOWED. OBSERVATIONS BY THE SPECIAL INSPECTOR SHALL INCLUDE, BUT NOT BE LIMITED TO, VERIFICATION OF THE FOLLOWING:
    A. TESTING AGENCY IS ON SITE AND THAT MIXING TIME, TEMPERATURE, SLUMP, AND AIR CONTENT ARE AS SPECIFIED. CHECK THAT ADDITION OF WATER TO THE CONCRETE MIX IN THE FIELD IS BASED ON THE GUIDELINES SET FORTH IN THE CONTRACT DOCUMENTS.
    B. THE CONCRETE AS DELIVERED TO THE PROJECT SITE IS AS SPECIFIED FOR THAT PORTION IN WHICH PLACEMENT IS TO OCCUR.
    C. CONCRETE IS BEING CONVEYED FROM MIXER TO PLACE OF FINAL DEPOSIT BY RECOGNIZED INDUSTRY STANDARDS. CONCRETE IS BEING DEPOSITED CONTINUOUSLY, OR IN LAYERS OF SUCH THICKNESS THAT NO CONCRETE WILL BE DEPOSITED ON CONCRETE WHICH HAS HARDENED SUFFICIENTLY TO CAUSE THE FORMATION OF SEAMS OR PLANES OF WEAKNESS WITHIN THE AREA OF PLACEMENT.
    D. CONCRETE IS BEING CONSOLIDATED AND THOROUGHLY WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS AND INTO CORNERS OF FORMS, ELIMINATING AIR OR STONE POCKETS WHICH MAY CAUSE HONEY COMBING, PITTING OR PLANES OF WEAKNESS.
    E. CURING PROCEDURES ARE AS PER CONTRACT DOCUMENTS, ACI 308, "STANDARD PRACTICE FOR CURING CONCRETE" AND OTHER RECOGNIZED INDUSTRY STANDARDS.

13. AFTER THE FORMWORK HAS BEEN REMOVED, INSPECT CONCRETE SURFACES FOR HONEYCOMBING AND VOIDS.

14. AFTER THE FORMWORK HAS BEEN REMOVED, INSPECT CONCRETE SURFACES FOR HONEYCOMBING AND VOIDS.

MASONRY

THE SPECIAL INSPECTOR SHALL OBSERVE INSTALLATION TECHNIQUES OF LOAD BEARING MASONRY ONLY. THIS WILL INCLUDE WORKMANSHIP; UNITS USED INCLUDING SIZE, STRENGTH AND WEIGHT; MORTAR AND GROUT TYPE AND MIXING; PLACEMENT OF REINFORCING STEEL, INCLUDING HORIZONTAL REINFORCEMENT; INSERTS; ANCHORS; AND OTHER STRUCTURALLY RELATED ASPECTS. CHECK CLEANOUT AREAS. CHECK THAT CELLS TO BE REINFORCED ARE CLEAN AND FREE OF ALL FOREIGN MATERIAL. DURING GROUTING, CHECK THAT ALL CELLS ARE FILLED SOLID AND, AFTER COMPLETION, IF IN DOUBT, TEST WITH A HAMMER TO VERIFY THAT CELLS ARE FILLED SOLID. CHECK TIE BEAM AND TIE COLUMN SPACING, SIZE AND REINFORCING.

PART III MATERIALS TESTING

ALL TESTING REQUIREMENTS AS DEFINED IN THE CONTRACT DOCUMENTS SHALL BE ADHERED TO, WITH COPIES OF RESULTS FORWARDED TO THE SPECIAL INSPECTOR. PRIOR TO EACH INSPECTION THE SPECIAL INSPECTOR SHALL REVIEW ALL MATERIAL TESTS AND REPORT ON THEIR RESULTS. THE SPECIAL INSPECTOR MAY REQUEST THE OWNER'S REPRESENTATIVE TO AUTHORIZE ADDITIONAL TESTS IF REQUIRED BY UNFORESEEABLE EVENTS OR CONDITIONS. ALL MATERIALS TESTING MUST BE EXECUTED BY QUALIFIED LABORATORIES AND TESTING FIRMS.

SUBMITTALS
1. GENERAL
CONTRACTOR MUST SUBMIT ONE COPY OF ALL STRUCTURAL SUBMITTALS (EXCLUDING CALCULATIONS) TO THE SPECIAL INSPECTOR FOR HIS RECORD AND USE. ALL SUBMITTALS SHALL BE REVIEWED AND ACCEPTED BY THE CONTRACTOR, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD, AND SHALL CONTAIN APPROPRIATE EVIDENCE OF SUCH, PRIOR TO TRANSMITTING TO THE SPECIAL INSPECTOR.

2. THE SPECIAL INSPECTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL SUBMITTALS.

3. AS A MINIMUM THE FOLLOWING SHALL BE PROVIDED TO THE SPECIAL INSPECTOR:
   A. SHORING AND RE-SHORING AS PER FBC 109.3.6.2, SHORING AND RE-SHORING DRAWINGS AND FIELD REPORTS, SIGNED AND SEALED BY THE DELEGATED ENGINEER, SHALL BE FURNISHED TO THE SPECIAL INSPECTOR PRIOR TO PLACEMENT OF ANY CONCRETE OR STRUCTURAL ELEMENT WHICH IS DEPENDENT ON SUCH SHORING/RESHORING.
   B. REINFORCING STEEL: FABRICATION AND PLACEMENT DRAWINGS AND BAR LISTS.
   C. CONCRETE MIX DESIGNS: COPIES OF CONCRETE MIX DESIGNS FOR ALL PROPOSED STRENGTHS AND GRADES.
   D. PRECAST/PRESTRESSED CONCRETE: ALL SUBMITTALS EXCEPT CALCULATIONS.
   E. LOAD BEARING MASONRY: TEST REPORT SHOWING ALL APPLICABLE DATA, INCLUDING UNIT GRADES, FOR MASONRY UNITS AND DESIGN MIXES FOR MORTAR AND GROUT.
   F. STRUCTURAL STEEL: FABRICATION AND ERECTION DRAWINGS FOR ALL STRUCTURAL STEEL COMPONENTS, MILL REPORTS FOR ALL STEEL, WELDER CERTIFICATES.
   G. PRE-MANUFACTURED WOOD TRUSSES: FABRICATION AND ERECTION DRAWINGS FOR ALL WOOD TRUSSES.
   H. MISCELLANEOUS METALS: FABRICATION AND ERECTION DRAWINGS FOR ALL STRUCTURAL METALS, SUCH AS EMBEDDED ANCHORS, CONNECTION PLATES, HANGERS, PRE-FABRICATED STEEL STAIRS, CATWALKS, ETC.

4. ALTERNATES: ALTERNATES WHICH ARE ACCEPTED SHALL BE PROVIDED TO THE SPECIAL INSPECTOR AS THEY BECOME AVAILABLE.

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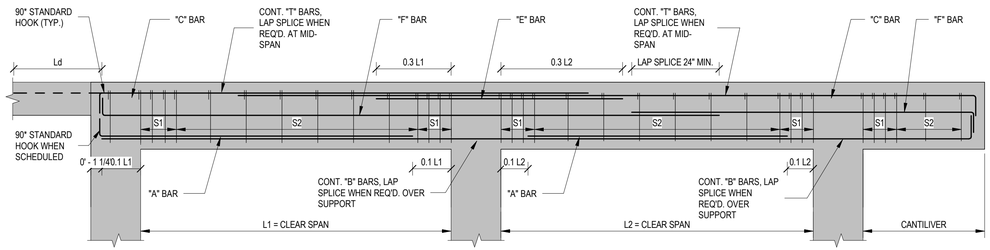
consultant:

TYPICAL BEAM DIAGRAM



BAR PLACEMENT NOTES

1. BEAMS SHOWN IN PLAN ARE READ FROM LEFT TO RIGHT.

2. THE MINIMUM CLEAR DISTANCE BETWEEN PARALLEL BARS IN A LAYER SHALL BE EQUAL TO THE NOMINAL DIAMETER OF THE BARS. IN NO CASE SHALL THE CLEAR DISTANCE BETWEEN BARS BE LESS THAN ONE INCH, NOR LESS THAN ONE AND ONE-HALF TIMES THE MAXIMUM SIZE OF THE COARSE AGGREGATE.

3. WHEN REINFORCEMENT IS PLACED IN TWO OR MORE LAYERS, THE CLEAR DISTANCE BETWEEN LAYERS SHALL NOT BE LESS THAN ONE INCH NOR LESS THAN THE DIAMETER OF THE BARS, AND THE BARS IN THE UPPER LAYERS SHALL BE PLACED DIRECTLY ABOVE THOSE IN THE BOTTOM LAYER.

4. "B" BARS ARE BOTTOM BARS. "B" BARS OF INTERIOR BEAMS SHALL EXTEND OVER SUPPORTS 6" MIN. UNLESS OTHERWISE NOTED OR THEY MAY BE CONTINUOUS.
"B" BARS OF PERIMETER BEAMS SHALL BE SPLICED (IF REQUIRED) AT OR NEAR THE SUPPORT WITH CLASS "B" TENSION SPLICE, AND 25% OF "B" BARS SHALL PASS CONTINUOUS OVER SUPPORT AREA BUT NOT LESS THAN TWO BARS, THESE BARS SHALL BE ANCHORED AT END SUPPORT TO DEVELOP fy USING A STANDARD HOOK OR HEADED DEFORMED BAR, SEE SCHEDULE FOR HOOKED BARS LENGTH.

5. "A" BARS ARE BOTTOM BARS. "A" BARS DO NOT EXTEND OVER SUPPORTS. "A" BARS SHALL BE PLACED IN THE SAME LAYER AS "B" BARS (U.O.N.).

6. "T" BARS ARE CONTINUOUS TOP BARS. "T" BARS SHALL BE LAP SPLICED WHEN REQUIRED AT MID-SPAN WITH A CLASS "B" TENSION SPLICE. FOR PERIMETER BEAMS AT LEAST 17% OF "T" BARS SHALL PASS CONTINUOUS OVER SUPPORT AREA BUT NOT LESS THAN TWO BARS, THESE BARS SHALL BE ANCHORED AT END SUPPORT TO DEVELOP fy USING A STANDARD HOOK OR HEADED DEFORMED BAR, SEE SCHEDULE FOR HOOKED BARS LENGTH.

7. "C" BARS ARE TOP BARS AT THE DISCONTINUOUS END OF END SPANS. "C" BARS SHALL BE PLACED IN THE SAME LAYER AS "T" BARS UNLESS OTHERWISE NOTED.

8. "E" BARS ARE TOP BARS OVER INTERIOR SUPPORTS. "E" BARS SHALL BE PLACED IN THE SAME LAYER AS "T" BARS UNLESS OTHERWISE NOTED.

9. "F" BARS SHALL BE EQUALLY SPACED BETWEEN "B" AND "T" BARS, HALF ON EACH VERTICAL FACE. "F" BARS MAY BE CONTINUOUS. SEE BEAM INTERMEDIATE REINFORCEMENT TABLE UNLESS SCHEDULE NOTE.

10. STIRRUPS SPACING IS FROM FACE OF SUPPORT. STIRRUPS SHALL HAVE "B" OR "T" BARS TIED IN EACH CORNER.

11. ALL REINFORCING BARS TO HAVE A MINIMUM OF 1 1/2" CLEAR COVER (U.O.N.) 12. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE PROVIDED IN ACCORDANCE WITH ACI 318-11, SECTION 7.7.1.

12. STIRRUPS IN TIE BEAMS SHALL BE #3 TIES, 4 AT 12" C/C EACH END, BAL. AT 48" C/C U.N.O.

13. PROVIDE 2-#5 CORNER BARS (EXTEND 30" IN EACH DIRECTION FROM CORNER).

14. WHERE CONCRETE LINTELS NOT USED DROP TIE-BEAM ABOVE OPENING, ADD 2#5 BOTT AND #3 STIRRUPS @ 8".

REBAR TENSION (Ldt), COMPRESSION (Ldc) DEVELOPMENT LENGTH & HOOKS (Ldh) IN CONCRETE

BAR SIZE	MIN. BAR SPACING (IN) NOTE 3	TENSION EMBEDMENT / DEVELOPMENT LENGTH (Ldt)						COMPRESSION EMBEDMENT / DEVELOPMENT LENGTH (Ldc)			HOOK BARS (Ldh)		
		3000 PSI		4000 PSI		> 5000 PSI							
		TOP BARS NOTE 4	OTHER BARS	TOP BARS NOTE 4	OTHER BARS	TOP BARS NOTE 4	OTHER BARS	3000 PSI	4000 PSI	> 5000 PSI	3000 PSI	4000 PSI	> 5000 PSI
3	1	22	17	19	15	17	13	8.5	7.5	7	8.5	7.5	6.5
4	1	29	22	25	19	23	17	11	9.5	9	11	9.5	8.5
5	1 1/4	36	28	31	24	28	22	14	12	11.5	14	12	11
6	1 1/2	43	33	37	29	34	26	16.5	14.5	13.5	16.5	14.5	13
7	1 3/4	63	48	54	42	49	38	19.5	17	16	19.5	17	15
8	2	71	55	62	48	56	43	22	19	18	22	19	17
9	2 1/4	81	62	70	54	63	48	25	21.5	20.5	25	21.5	19.5
10	2 1/2	91	70	79	61	71	54	28	24.5	23	28	24.5	22
11	2 3/4	101	78	87	67	78	60	31	27	25.5	31	27	24

GENERAL NOTES:

1. LENGTHS SHOWN CONFORM TO NON-SEISMIC PROVISIONS OF ACI 318-14 FOR NORMAL WT CONCRETE AND UNCOATED BARS W/ Fy=60 KSI (YIELD STRENGTH OF REBARS).

2. ALL LENGTHS ARE IN INCHES

3. BAR SPACING IS MEASURED AS CLEAR DISTANCE BETWEEN BARS. FOR BARS WITH A CLEAR SPACING OF LESS THAN 2db, MULTIPLY TABULATED VALUES BY 1.5.

4. TOP BARS ARE BARS SO PLACED THAT 12 INCHES OR MORE OF FRESH CONCRETE IS CAST IN MEMBER BELOW REINFORCEMENT.

5. SEE CONCRETE NOTES FOR SPECIFIED CONCRETE STRENGTH.

6. CLEAR COVER FOR REINFORCING SHALL NOT BE LESS THAN 1 BAR DIAMETER.

7. MULTIPLY THE ABOVE LENGTHS BY 1.33 FOR CONCRETE WITH LIGHTWEIGHT AGGREGATE.

8. MULTIPLY THE ABOVE LENGTHS BY 1.5 FOR EPOXY COATED REINFORCING.

9. COMPRESSION DEVELOPMENT LENGTH OF REBARS ENCLOSED WITHIN #3 SPIRAL REINFORCEMENT W/ NO MORE THAN @4" PITCH OR #4 TIES @4" O.C. MAY BE MULTIPLIED BY 0.75.

LAP SPLICE LENGTH (Lst & Lsc) IN CONCRETE

BAR SIZE	TENSION LAP SPLICE			COMPRESSION LAP SPLICE
	3000 PSI	4000 PSI	> 5000 PSI	> 3000 PSI
3	22	20	19	12
4	29	26	24	15
5	36	31	28	19
6	43	37	33	23
7	63	54	48	26
8	71	62	55	30
9	81	70	62	34
10	91	78	70	38
11	101	87	78	42

GENERAL NOTES:

1. LENGTHS SHOWN CONFORM TO NON-SEISMIC PROVISIONS OF ACI 318-14 FOR NORMAL WT CONCRETE AND UNCOATED BARS W/ Fy=60 KSI (YIELD STRENGTH OF REBARS).

2. ALL LENGTHS ARE IN INCHES

3. SPLICES SHALL BE STAGGERED MINIMUM OF 24" OC

4. SEE CONCRETE NOTES FOR SPECIFIED CONCRETE STRENGTH.

5. CLEAR COVER FOR REINFORCING SHALL NOT BE LESS THAN 1 BAR DIAMETER OR AS SPECIFIED IN SECTION 12.2.3 OF ACI 318-14.

6. MULTIPLY THE ABOVE LENGTHS BY 1.33 FOR CONCRETE WITH LIGHTWEIGHT AGGREGATE.

7. MULTIPLY THE ABOVE LENGTHS BY 1.5 FOR EPOXY COATED REINFORCING.

8. MULTIPLY THE ABOVE LENGTHS BY 1.5 FOR BARS SPACED LESS THAN 2db CLEAR.

9. COMPRESSION DEVELOPMENT LENGTH OF REBARS ENCLOSED WITHIN #3 SPIRAL REINFORCEMENT W/ NO MORE THAN @4" PITCH OR #4 TIES @4"OC MAY BE MULTIPLIED BY 0.75.

C.M.U. WALL SCHEDULE

TYPE	WIDTH	f'm (PSI)	VERT. REINFORCEMENT	REMARKS
MW-1	11 5/8"		#5 @ 16" O.C.	
MW-2	7 5/8"		#5 @24" O.C.	
MW-3	7 5/8"		#5 @ 16" O.C.	
MW-4	7 5/8"		(2)#5 @16" O.C.	FULL GROUTED

STEEL COLUMN SCHEDULE

MARK	COLUMN SIZE	REMARKS
ST1	HSS8X8X3/8	PL 8"x8"x1/2" (4) HEADED STUD 1/2" DIAM.x 6" LONG
ST2	HSS6X6X3/8	PL 8"x8"x3/4" (4) HEADED STUD 1/2" DIAM.x 6" LONG
ST3	HSS8X8X3/8	PL 10"x10"x1/2" (4) HEADED STUD 1/2" DIAM. x 6" LONG

TIE COLUMN SCHEDULE

MARK	SHORT SIDE	LONG SIDE	VERTICAL REINFORCEMENT	TIES REINFORCEMENT	REMARKS
TC1	8"	12"	4 #5	#3 @ 8"	CONCRETE COLUMN
TC2	8"	16"	6 #5	#3 @ 8"	CONCRETE COLUMN
TC3	8"	18"	6 #5	#3 @ 8"	CONCRETE COLUMN
TC4	24"	24"	8 #5	#3 @ 8"	L SHAPED CONCRETE COLUMN
TC5	8"	24"	11 #5	#3 @ 8"	CONCRETE COLUMN
TC6	8"	32"	8 #5	#3 @ 8"	CONCRETE COLUMN
TC7	8"	15"	6 #5	#3 @ 8"	CONCRETE COLUMN

COLUMN SCHEDULE

MARK	SHORT SIDE	LONG SIDE	VERTICAL REINFORCEMENT	TIES REINFORCEMENT	REMARKS
C1	16"	16"	10 #5	#3 @ 10"	CONCRETE COLUMN
C2	12"	16"	8 #5	#3 @ 10"	CONCRETE COLUMN
C3	12"	24"	10 #5	#3 @ 10"	CONCRETE COLUMN
C3A	8"	24"	8 #5	#3 @ 8"	CONCRETE COLUMN
C4	12"	44"	18 #5	#3 @ 10"	CONCRETE COLUMN
C5	18"	18"	12 #5	#3 @ 10"	CONCRETE COLUMN
C6	SEE COL DETAIL	SEE COL DETAIL	16 #5	#3 @ 8"	Z SHAPEP CONCRETE COLUMN
C7	SEE COL DETAIL	SEE COL DETAIL	12 #5	#3 @ 8"	Z SHAPEP CONCRETE COLUMN
C8	12"	24"	12 #7	2 #3 @ 8"	CONCRETE COLUMN

CONCRETE WALL SCHEDULE

TYPE	WIDTH	HORIZ. REINFORCEMENT	VERT. REINFORCEMENT	REMARKS	SEE NOTE
CW-1	8"	#4 @ 12" O.C.	#5 @ 12" O.C.		

CONCRETE SLAB SCHEDULE

MARK	THICKNESS	BOTTOM REINFORCEMENT	TOP REINFORCEMENT	COMMENTS
S4	0' - 4"	#4 @ 12" PERPEND. TO JOISTS	#4 @ 18" PARALLEL TO JOIST	2ND FLOOR SLAB OVER PRECAST JOIST
S5	0' - 5"	#4 @ 12" E.W.	#4 @ 12" EA. WAY	U.O.N. IN PLAN
S6	0' - 6"	#5 @ 12" E.W.	#5 @ 12" E.W.	U.O.N. IN PLAN
S8	0' - 8"	#5 @ 8" E.W.	#5 @ 8" E.W.	U.O.N. IN PLAN
S8A	0' - 8"	#5 @ 6" E.W.	#6 @ 8" E.W.	U.O.N. IN PLAN
S8B	0' - 8"	#5 @ 6" E.W.	#4 @ 12" E.W.	U.O.N. IN PLAN

DEVELOPMENT & LAP SPLICE LENGTH OF REBARS IN MASONRY

BAR SIZE	3	4	5	6	7	8	9
D & S LENGTH	18	32	49	98	143	216	296
HOOKS	5	7	8	10	12	13	15

GENERAL NOTES:

1. LENGTHS SHOWN CONFORM TO NON-SEISMIC PROVISIONS OF TMS 402-08/ACI 530-08/ FOR NORMAL WT MASONRY BLOCK (F'm=1500 PSI OR BETTER) AND UNCOATED BARS W/ Fy=60 KSI (YIELD STRENGTH OF REBARS).

2. ALL LENGTHS ARE IN INCHES.

3. SPLICED BARS SHALL NOT BE FARTHER APART THAN THE MINIMUM OF 8" OR 1/5 THE DEVELOPMENT LENGTH.

4. SEE MASONRY NOTES FOR SPECIFIED BLOCK STRENGTH.

5. MULTIPLY THE ABOVE LENGTHS BY 1.33 FOR CONCRETE WITH LIGHTWEIGHT AGGREGATE.

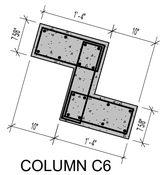
6. MULTIPLY THE ABOVE LENGTHS BY 1.5 FOR EPOXY COATED REINFORCING.

7. AT WALL INTERSECTIONS HORIZONTAL REBARS SHALL BENT AROUND EDGE VERTICAL REINFORCEMENT W/ A 90° HOOK & SHALL EXTEND INTO INTERSECTING WALL FOR A DISTANCE OF MINIMUM THE DEVELOPMENT LENGTH.

8. AT ALL OTHER INTERSECTIONS HORIZONTAL REBARS SHALL BENT AROUND EDGE VERTICAL REINFORCEMENT W/ A 180° HOOK. THE ENDS OF SINGLE LEG OR U-STIRRUP SHALL BE ANCHORED BY A STANDARD HOOK PLUS AN EFFECTIVE EMBEDMENT OF 1/2 OF THE DEVELOPMENT LENGTH.

CONCRETE LINTEL SCHEDULE

WIDTH (IN)	HEIGHT (IN)	CLEAR SPAN	REINFORCING		TIES
			TOP	BOTTOM	
6	8(MIN.)	5'-0" TO 7'-0"	--	(2) #4	--
6	12(MIN.)	7'-0" TO 9'-0"	(2) #4	(2) #5	(5) #3 @4" E.E., BAL. @12" O.C.
6	16(MIN.)	9'-0" TO 12'-0"	(2) #5	(2) #6	(5) #3 @6" E.E., BAL. @12" O.C.



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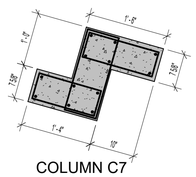

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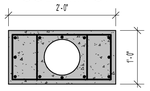

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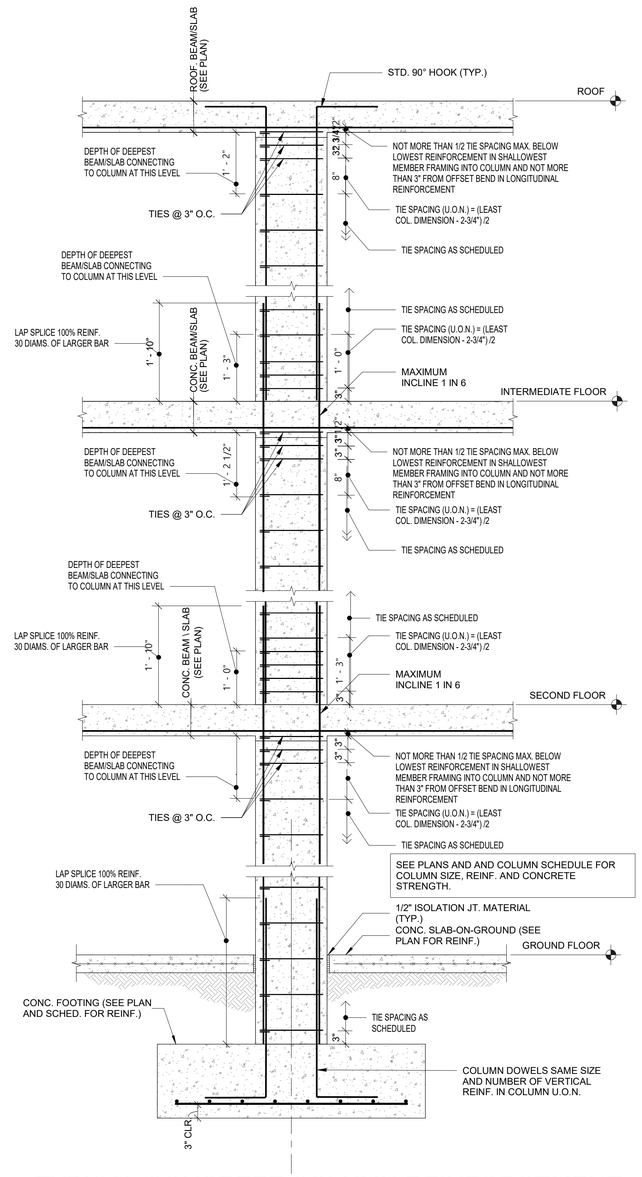

1 SB-002 TYPICAL CONCRETE COLUMN REINFORCEMENT ELEVATION DIAGRAM

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BEAM SCHEDULE

MARK	WIDTH	HEIGHT	TOP ELEVATION	REINFORCING				STIRRUPS		REMARKS
				TOP REINFORCEMENT	" A " BARS	INT. (E.F.)	BOTTOM REINF. (CONT.)	STIRRUPS " I "	STIRRUPS "O"	
1B-1	12"	24"	7' - 0"	4 #6		2 #5	4 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-2	12"	24"	7' - 0"	8#6*		2 #5	4 #6		#3 @7"	* 2 LAYERS (3/2)
1B-3	12"	24"	7' - 0"	4 #8		2 #5	4 #8		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-4	12"	24"	7' - 0"	4 #6			4 #6		#3 @ 10"	SEE DIAGRAM AT MOMENT FRAMES
1B-5	12"	24"	7' - 0"	4 #8			4 #8	#3 @ 4"	#3 @ 4"	SEE DIAGRAM AT MOMENT FRAMES
1B-7	12"	24"	7' - 0"	8 #6*		2 #5	4 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-8	12"	24"	7' - 0"	3 #6		2 #5	3 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-9	12"	24"	7' - 0"	8 #6*			4 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-10	12"	24"	7' - 0"	4 #8		2 #5	4 #8		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-11	12"	24"	7' - 0"	4 #6		4 #6	4 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-12	8"	46"	7' - 0"	2 #6			2 #6		#3 @7"	* 2 LAYERS (2/2)
1B-15	12"	24"	7' - 0"	3 #6		2 #5	3 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-16	12"	24"	7' - 0"	3 #6		2 #5	3 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-17	12"	24"	7' - 0"	3 #6		2 #5	3 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-18	8"	24"	7' - 0"	2 #5			2 #5		#3 @ 6"	
1B-19	12"	24"	7' - 0"	4 #6		2 #5	4 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-20	12"	24"	7' - 0"	3 #6		2 #5	3 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-21	12"	24"	7' - 0"	3 #6		2 #5	3 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-22	12"	24"	7' - 0"	4 #6		2 #5	4 #6		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-23	12"	24"	7' - 0"	6 #8*		2 #5	6 #8*		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-24	12"	24"	7' - 0"	6 #8*		2 #5	6 #8*		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-25	18"	24"	7' - 0"	5 #8		2 #5	5 #8		#3 @7"	SEE DIAGRAM AT MOMENT FRAMES
1B-25A	12"	24"	7' - 0"	3 #8			3 #8		#3 @ 8"	SEE DIAGRAM AT MOMENT FRAMES
1B-26	8"	24"	7' - 0"	4 #6		2 #5	3 #8		#3 @ 6"	* 2 LAYERS (2/2)
1B-27	12"	24"	7' - 0"	3 #6		2 #5	3 #6		#3 @7"	
1B-28	12"	24"	7' - 0"	3 #6		2 #5	3 #6		#3 @7"	
1B-29	8"	24"	7' - 0"	3 #5			3 #5		#3 @ 12"	
1B-30	8"	24"	7' - 0"	2 #6		2 #5	2 #6		#3 @ 6"	
1B-31	8"	24"	7' - 0"	2 #6		2 #5	2 #6		#3 @ 6"	
1B-32	8"	24"	7' - 0"	2 #6		2 #5	2 #6		#3 @ 6"	
2B-1	12"	56"	19' - 0"	4 #6		6 #6	4 #6		#3 @ 12"	
2B-2	12"	58"	19' - 0"	4 #6		6 #6	4 #6		#3 @ 12"	
2B-3	8"	44"	20' - 0"	4 #6*		4 #5	4 #6*		#3 @ 10"	* 2 LAYERS (2/2)
2B-4	8"	44"	20' - 0"	4 #6*		4 #5	4 #6*		#3 @ 10"	* 2 LAYERS (2/2)
2B-5	12"	44"	20' - 0"	4 #6*		4 #5	4 #6*		#3 @ 6"	* 2 LAYERS (2/2)
2B-6	12"	22"	18' - 0"	3 #6		4 #5	3 #6		#3 @ 6"	
2B-7	8"	22"	16' - 0"	2 #6		6 #5	2 #6		#3 @ 9"	
2B-8	8"	22"	17' - 4"	2 #5			2 #5		#3 @ 12"	
2B-9	8"	48"	16' - 0"	2 #6		4 #6	2 #6		#3 @ 12"	
2B-10	18"	24"	16' - 0"	5 #8		2 #6	5 #8		#3 @ 9"	
2B-11	20"	24"	16' - 0"	12 #9 *		2 #6	12 #9 *	#4 @ 5"	#4 @ 5"	* 2 LAYERS (6/2)
2B-12	18"	24"	16' - 0"	8 #8 *		2 #6	8 #8 *	#3 @ 8"	#3 @ 8"	* 2 LAYERS (4/2)
2B-13	24"	24"	16' - 0"	8 #8 *		2 #6	8 #8 *	#3 @ 5"	#3 @ 5"	* 2 LAYERS (4/2)
2B-14	18"	24"	16' - 0"	8 #8 *		2 #6	8 #8 *	#3 @ 8"	#3 @ 8"	* 2 LAYERS (4/2)
2B-15	18"	24"	16' - 0"	10 #8 *		2 #6	10 #8 *	#3 @ 5"	#3 @ 5"	* 2 LAYERS (5/2)
2B-16	18"	24"	16' - 0"	10 #8 *		2 #6	10 #8 *	#3 @ 5"	#3 @ 5"	* 2 LAYERS (5/2)
2B-17	8"	18"	16' - 0"	2 #5			2 #5		#3 @7"	
2B-18	8"	20"	18' - 0"	4 #6		2 #5	4 #6		#3 @ 10"	
B-1	8"	32"	52' - 10"	2 #6		2 #5	2 #6		#3 @ 12"	
B-2	8"	16"	42' - 0"	2 #6		2 #5	2 #6		#3 @ 4"	
B-3	8"	38"	29' - 10"	2 #5		4 #5	2 #5		#3 @ 6"	
B-4	8"	40"	16' - 0"	2 #6		4 #5	2 #6		#3 @ 8"	
GB-1	18"	24"	-2' - 0"	5 #5			5 #5		#3 @ 8"	
GB-2	24"	24"	-2' - 0"	8 #5			8 #5		#3 @ 8"	
RB-1	12"	22"	30' - 0"	4 #5			4 #5		#3 @ 9"	

TIE BEAM SCHEDULE

MARK	WIDTH	HEIGHT	TOP ELEVATION	REINFORCING				STIRRUPS	
				TOP REINFORCEMENT	" A " BARS	INT. (E.F.)	BOTTOM REINF. (CONT.)	STIRRUPS " I "	STIRRUPS "O"
1TB-2	8"	12"	4' - 6"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
1TB-3	8"	12"	10' - 3"	2 #5			2 #5		
1TB-4	8"	12"	16' - 0"	2 #5			2 #5		
1TB-5	8"	12"	4' - 6"	2 #5		2 #5	2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
1TB-6	8"	36"	7' - 0"	4 #6			4 #6		(4) @ 12" E.E. BAL @ 48" O.C.
1TB-7	8"	12"	7' - 0"	2 #5		2 #5	2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
1TB-8	12"	12"	8' - 0"	2 #5		2 #5	2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
1TB-9	8"	16"	4' - 6"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
2TB-1	8"	16"	25' - 8"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
2TB-2	8"	12"	20' - 0"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
2TB-3	8"	12"	19' - 4"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
2TB-5	8"	22"	25' - 8"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
2TB-6	8"	20"	19' - 0"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
2TB-7	8"	12"	18' - 0"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
2TB-8	8"	12"	19' - 0"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
RTB-1	8"	12"	30' - 0"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
TB	8"	12"	VARIES	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
TB-1	8"	12"	37' - 5"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
TB-2	8"	12"	32' - 3"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
TB-3	8"	12"	24' - 9"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
TB-4	8"	12"	19' - 6"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
TB-5	8"	12"	16' - 0"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
TB-6	8"	12"	13' - 1 1/2"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
TB-7	8"	17 1/2"	7' - 11 3/8"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.
TB-8	12"	12"	7' - 0"	3 #5			3 #5		(4) @ 12" E.E. BAL @ 48" O.C.
TB-9	8"	12"	4' - 6"	2 #5			2 #5		(4) @ 12" E.E. BAL @ 48" O.C.

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SCHEDULES

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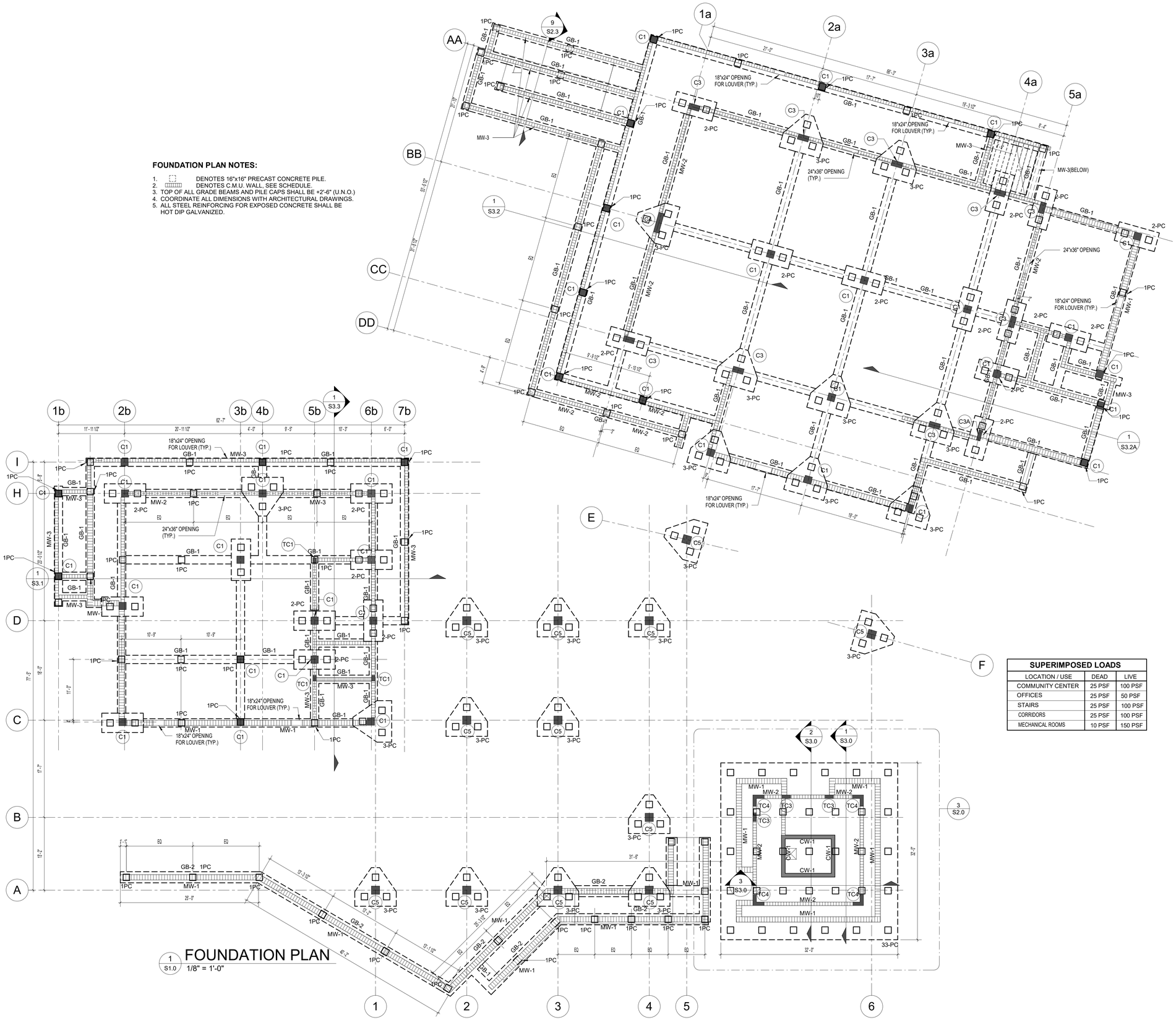
sheet number
S0.4

sheet:
of

FOUNDATION PLAN NOTES:

1. DENOTES 16"x16" PRECAST CONCRETE PILE.
2. DENOTES C.M.U. WALL, SEE SCHEDULE.
3. TOP OF ALL GRADE BEAMS AND PILE CAPS SHALL BE +2'-6" (U.N.O.)
4. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
5. ALL STEEL REINFORCING FOR EXPOSED CONCRETE SHALL BE HOT DIP GALVANIZED.



1 S1.0 FOUNDATION PLAN
1/8" = 1'-0"

SUPERIMPOSED LOADS		
LOCATION / USE	DEAD	LIVE
COMMUNITY CENTER	25 PSF	100 PSF
OFFICES	25 PSF	50 PSF
STAIRS	25 PSF	100 PSF
CORRIDORS	25 PSF	100 PSF
MECHANICAL ROOMS	10 PSF	150 PSF

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GROUND FLOOR FRAMING PLAN

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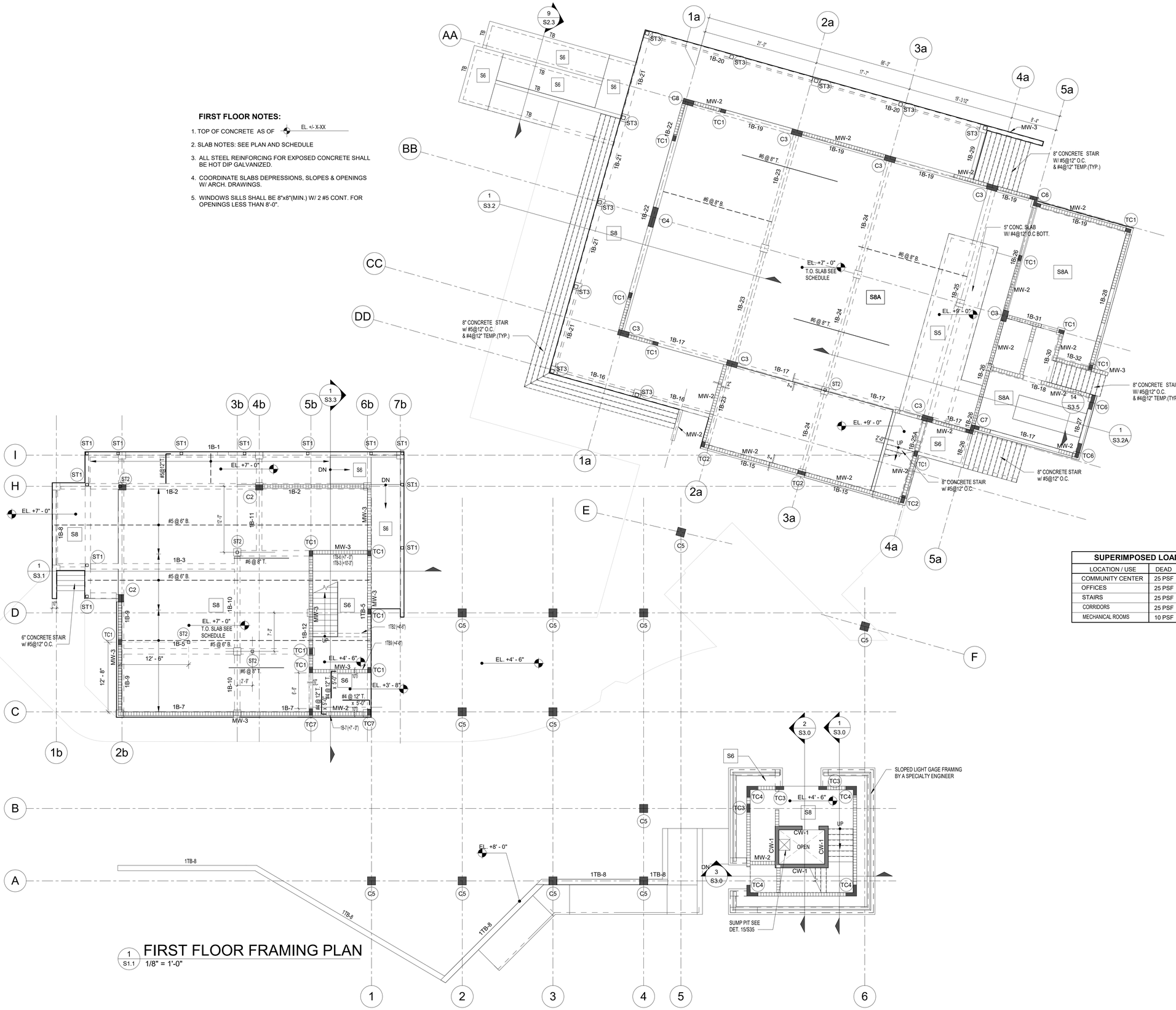
FIRST FLOOR NOTES:

1. TOP OF CONCRETE AS OF EL. +/- X-XX
2. SLAB NOTES: SEE PLAN AND SCHEDULE
3. ALL STEEL REINFORCING FOR EXPOSED CONCRETE SHALL BE HOT DIP GALVANIZED.
4. COORDINATE SLABS DEPRESSIONS, SLOPES & OPENINGS W/ ARCH. DRAWINGS.
5. WINDOWS SILLS SHALL BE 8"x8"(MIN.) W/ 2 #5 CONT. FOR OPENINGS LESS THAN 8'-0".



1 S1.1 FIRST FLOOR FRAMING PLAN
1/8" = 1'-0"

SUPERIMPOSED LOADS		
LOCATION / USE	DEAD	LIVE
COMMUNITY CENTER	25 PSF	100 PSF
OFFICES	25 PSF	50 PSF
STAIRS	25 PSF	100 PSF
CORRIDORS	25 PSF	100 PSF
MECHANICAL ROOMS	10 PSF	150 PSF

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FIRST FLOOR FRAMING PLAN

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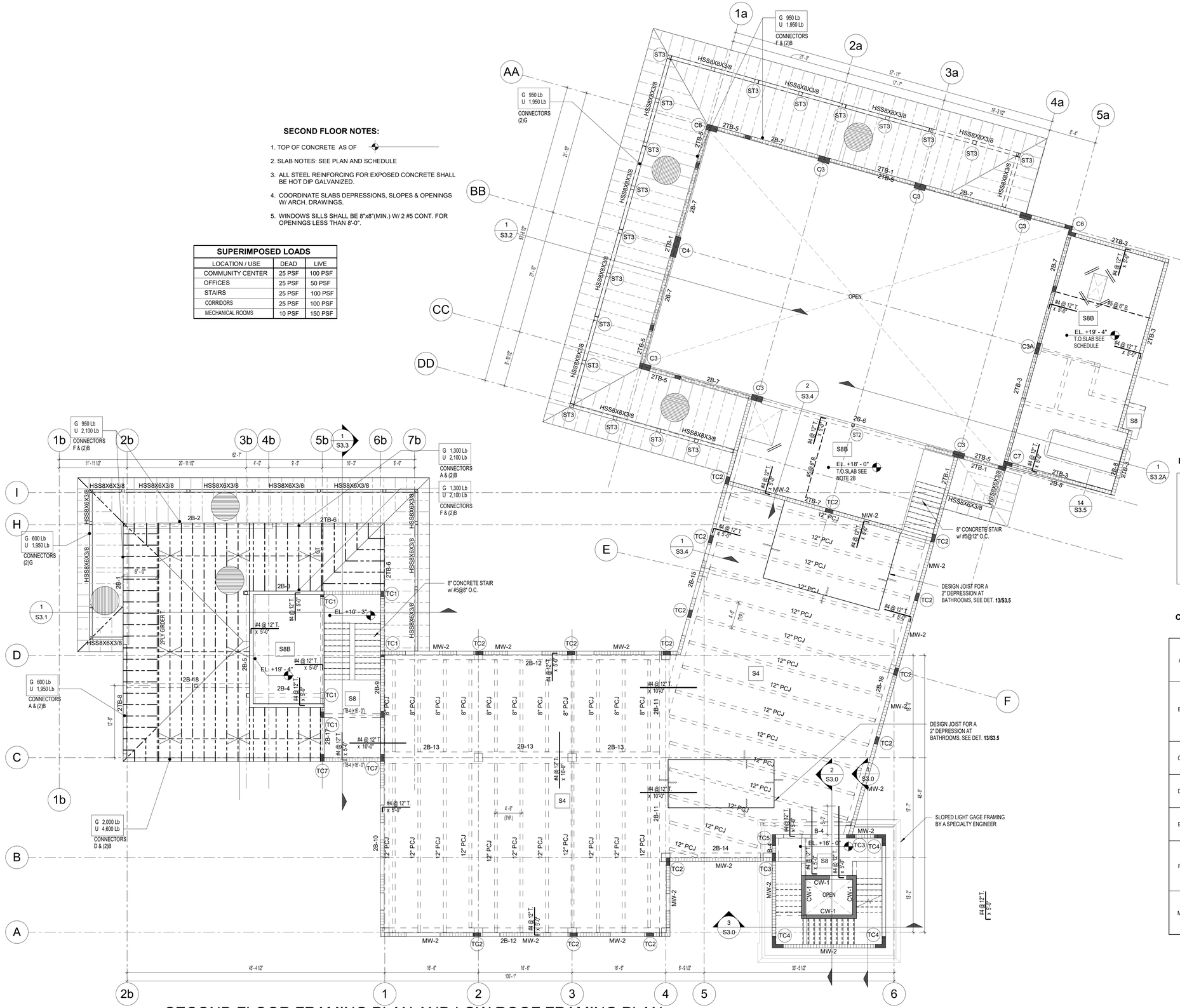
of

SECOND FLOOR NOTES:

1. TOP OF CONCRETE AS OF
2. SLAB NOTES: SEE PLAN AND SCHEDULE
3. ALL STEEL REINFORCING FOR EXPOSED CONCRETE SHALL BE HOT DIP GALVANIZED.
4. COORDINATE SLABS DEPRESSIONS, SLOPES & OPENINGS W/ ARCH. DRAWINGS.
5. WINDOWS SILLS SHALL BE 8"x8"(MIN.) W/ 2 #5 CONT. FOR OPENINGS LESS THAN 8'-0".

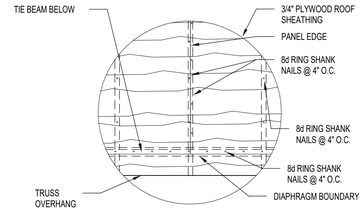
SUPERIMPOSED LOADS		
LOCATION / USE	DEAD	LIVE
COMMUNITY CENTER	25 PSF	100 PSF
OFFICES	25 PSF	50 PSF
STAIRS	25 PSF	100 PSF
CORRIDORS	25 PSF	100 PSF
MECHANICAL ROOMS	10 PSF	150 PSF



1 S1.2 SECOND FLOOR FRAMING PLAN AND LOW ROOF FRAMING PLAN
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1.- DIAPHRAGM NAILING PATTERN AS PER DETAIL BELOW.



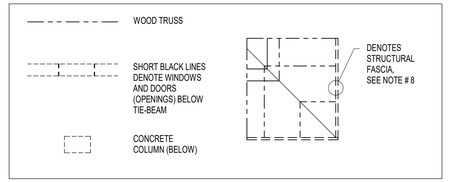
ROOF DIAPHRAGM DETAIL

1.- FOR GENERAL STRUCTURAL NOTES SEE SHEET S0.0.
2.- TRUSS MANUFACTURER SHALL COORDINATE THE TRUSS DESIGN WITH CEILING REQUIREMENTS BY ARCHITECTURAL PLANS.
3.- USE CROSS BRACING AS PER DETAIL C/S4.1 AT ALL CANTILEVER TRUSS DIAPHRAGM EDGES.
4.- FOR DIMENSIONS SEE ARCHITECTURAL DRAWINGS.
5.- ALL GIRDER TRUSSES SHALL BE A MINIMUM 2 MEMBERS (2-PLY) AS SHOWN ON PLANS & FAST. W/ 1/2"Ø A325 THRU-BOLTS @ 18" O.C. MAX. @ MID-DEPTH OR 16d NAILS @ 8" O.C IN TWO ROWS STAGGERED W/ 1" EDGE DISTANCE (TYP. EA. FACE OF MULTY-PLY MEMBER).
6.- 2x6 STRUCTURAL FASCIA, SEE DETAILS J & K/S2.4.
7.- 2 OR MORE PLY GIRDER TRUSS SHALL BE CONNECTED EACH OTHER WITH #12@12" WOOD SCREWS.
8.- SEE BEAM SCHEDULE AT S0.3.
9.- DROPPED TIE BEAM FOR OPENINGS LESS THAN 5'-0" OF SPAN, SEE DETAIL D/S2.3.
10.- FOR LEDGER AND NAILER SPEC. SEE DETAIL E/S2.4.

SUPERIMPOSED LOADS		
LOCATION / USE	DEAD	LIVE
WOOD TRUSSES (*)	25 PSF	20 PSF

(*) DENOTES WOOD FRAMING SELF-WEIGHT PLUS SUPERIMPOSED DEAD LOADS

LEGEND:



CONNECTORS:

A		DHTA12-2 CONNECTOR BY USP W/ (8)-10dx1 FASTENERS INTO EACH STRAP, MIN. NAIL PENETRATION 1-1/2" FOR 10d NAILS. ALLOWABLE UPLIFT=2430 lbs ALLOWABLE LATERAL: F1=1215 lbs F2=1310 lbs	FL17680.2-R3 EXP: 12/31/2023 2 PLY h = 8"
B		HGAM10 CONNECTOR BY USP W/ (4)-1/4"x1-3/4" WEDGE BOLT+1/4" HOLE INTO MIN. 2000 PSI CONCRETE & (4) WS15 WOOD SCREWS TO RAFTER/TRUSS W/ 1/2" LONG AND 1/4" NOMINAL DIAMETER. ALLOWABLE UPLIFT=980 lbs ALLOWABLE LATERAL: F1=1075 lbs F2=760 lbs	FL17699.1-R3 EXP: 12/31/2023 WOOD TO CONC.
C		USC44 CONNECTOR BY USP W/ (8)-16dx3-1/2" FASTENERS TO TRUSS & (2)-3/4"x6" BOLTS TO CONCRETE/MANSONRY WALL. ALLOWABLE UPLIFT=7613 lbs	FL2033.2-R6 EXP: 12/31/2023 4-PLY 4/12 PITCH h=30.5"
D		USC54 CONNECTOR BY USP W/ (8)-16dx3-1/2" FASTENERS TO TRUSS & (4)3/4"x6" BOLTS TO CONCRETE/MASONRY WALL. ALLOWABLE UPLIFT=10133 lbs	FL2033.2-R6 EXP: 12/31/2023 4-PLY 5/12 PITCH h=30.5"
E		USC64 CONNECTOR BY USP W/ (8)-16dx3-1/2" FASTENERS TO TRUSS & (4)3/4"x6" BOLTS TO CONCRETE/MANSONRY WALL. ALLOWABLE UPLIFT=10133 lbs	FL2033.2-R6 EXP: 12/31/2023 4-PLY 6/12 PITCH h=30.5"
F		HD210 CONNECTOR BY USP W/ (6)-10dx1-1/2" TO JOIST AND (14)3/16" TAPPER+ BY "POWER FASTENERS" TO MASONRY W/ 1-1/4" EMBEDMENT & 8" EDGE DISTANCE. ALLOWABLE GRAVITY=3110 lbs ALLOWABLE UPLIFT=595 lbs	FL17232.3-R7 EXP: 10/31/2022 WOOD TO CONC 1 PLY h=7 3/16"
M		(2) HGA10 GUSSET ANGLES BY USP, ONE EA. SIDE OF TRUSS W/ (4) 1/4" DIAM. TEK SCREWS W/ FULL PENETRATION TO STEEL BEAM AND (4) (WS15) FASTENERS TO TRUSS. ALLOWABLE UPLIFT=2570 lbs	FL17236.7 R7 EXP: 10/31/2022 WOOD TO STEEL

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SECOND FLOOR FRAMING PLAN

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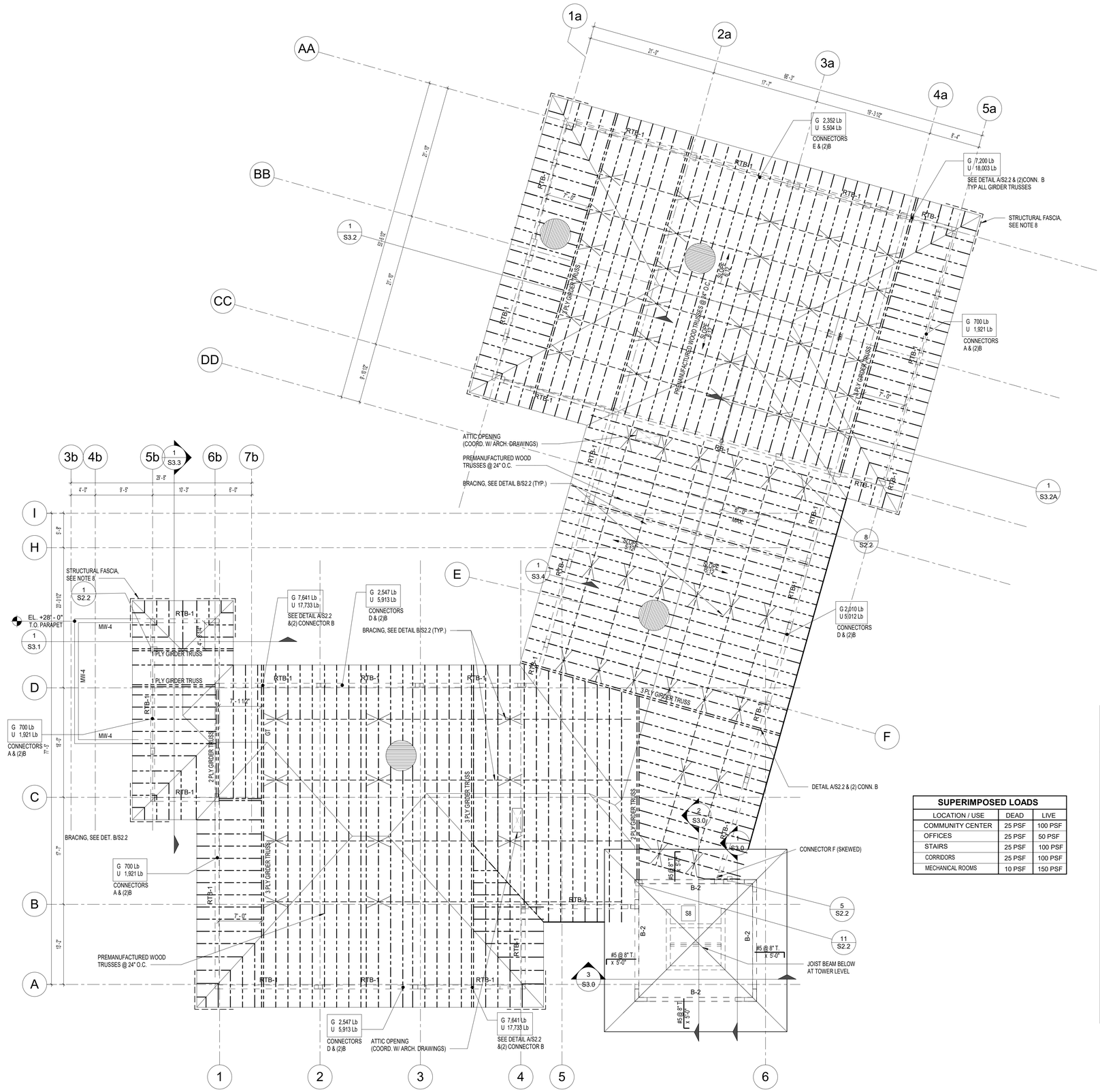
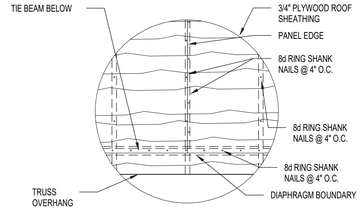


1 S1.3 HIGH ROOF FRAMING PLAN
1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

1.- DIAPHRAGM NAILING PATTERN AS PER DETAIL BELOW.



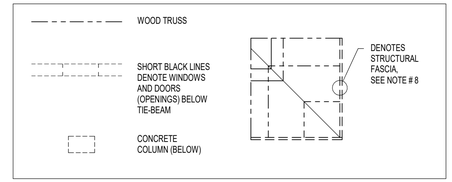
ROOF DIAPHRAGM DETAIL

1.- FOR GENERAL STRUCTURAL NOTES SEE SHEET S0.0.
2.- TRUSS MANUFACTURER SHALL COORDINATE THE TRUSS DESIGN WITH CEILING REQUIREMENTS BY ARCHITECTURAL PLANS.
3.- USE CROSS BRACING AS PER DETAIL C/S4.1 AT ALL CANTILEVER TRUSS DIAPHRAGM EDGES.
4.- FOR DIMENSIONS SEE ARCHITECTURAL DRAWINGS.
5.- ALL GIRDER TRUSSES SHALL BE A MINIMUM 2 MEMBERS (2-PLY) AS SHOWN ON PLANS & FAST. W/ 1/2"Ø A325 THRU-BOLTS @ 18" O.C. MAX. @ MID-DEPTH OR 16d NAILS @ 8" O.C IN TWO ROWS STAGGERED W/ 1" EDGE DISTANCE (TYP. EA. FACE OF MULTY-PLY MEMBER).
6.- 2x6 STRUCTURAL FASCIA, SEE DETAILS J & K/S2.4.
7.- 2 OR MORE PLY GIRDER TRUSS SHALL BE CONNECTED EACH OTHER WITH #12@12" WOOD SCREWS.
8.- SEE BEAM SCHEDULE AT S0.3.
9.- DROPPED TIE BEAM FOR OPENINGS LESS THAN 5'-0" OF SPAN, SEE DETAIL D/S2.3.
10.- FOR LEDGER AND NAILER SPEC. SEE DETAIL E/S2.4.

SUPERIMPOSED LOADS		
LOCATION / USE	DEAD	LIVE
WOOD TRUSSES (*)	25 PSF	20 PSF

(*) DENOTES WOOD FRAMING SELF-WEIGHT
PLUS SUPERIMPOSED DEAD LOADS

LEGEND:



CONNECTORS:

A	F2 F1	DHTA12-2 CONNECTOR BY USP W/ (8)-10dx1 FASTENERS INTO EACH STRAP. MIN. NAIL PENETRATION 1-1/2" FOR 10d NAILS. ALLOWABLE UPLIFT=2430 lbs ALLOWABLE LATERAL: F1=1215 lbs F2=1310 lbs	FL17680.2-R3 EXP: 12/31/2023 2 PLY h = 8"
B	F2 F1	HGAM10 CONNECTOR BY USP W/ (4)-1/4"x1-3/4" WEDGE BOLT+1/4" HOLE INTO MIN. 2000 PSI CONCRETE & (4) WS15 WOOD SCREWS TO RAFTER/TRUSS W/ 1/2" LONG AND 1/4" NOMINAL DIAMETER. ALLOWABLE UPLIFT=980 lbs ALLOWABLE LATERAL: F1=1075 lbs F2=760 lbs	FL17699.1-R3 EXP: 12/31/2023 WOOD TO CONC.
C		USC44 CONNECTOR BY USP W/ (8)-16dx3-1/2" FASTENERS TO TRUSS & (2)-3/4"x6" BOLTS TO CONCRETE/MANSONRY WALL. ALLOWABLE UPLIFT=7813 lbs	FL2033.2-R6 EXP: 12/31/2023 4-PLY 4/12 PITCH h=30.5"
D		USC54 CONNECTOR BY USP W/ (8)-16dx3-1/2" FASTENERS TO TRUSS & (4)3/4"x6" BOLTS TO CONCRETE/MASONRY WALL. ALLOWABLE UPLIFT=10133 lbs	FL2033.2-R6 EXP: 12/31/2023 4-PLY 5/12 PITCH h=30.5"
E		USC64 CONNECTOR BY USP W/ (8)-16dx3-1/2" FASTENERS TO TRUSS & (4)3/4"x6" BOLTS TO CONCRETE/MANSORY WALL. ALLOWABLE UPLIFT=10133 lbs	FL2033.2-R6 EXP: 12/31/2023 4-PLY 6/12 PITCH h=30.5"
F		HD210 CONNECTOR BY USP W/ (6)-10dx1-1/2" TO JOIST AND (14)3/16" TAPPER+ BY "POWER FASTENERS" TO MASONRY W/ 1-1/4" EMBEDMENT & 8" EDGE DISTANCE. ALLOWABLE GRAVITY=3110 lbs ALLOWABLE UPLIFT=595 lbs	FL17232.3-R7 EXP: 10/31/2022 WOOD TO CONC 1 PLY h=7 3/16"
M		(2) HGA10 GUSSET ANGLES BY USP, ONE EA. SIDE OF TRUSS W/ (4) 1/4" DIAM. TEK SCREWS W/ FULL PENETRATION TO STEEL BEAM AND (4) (WS15) FASTENERS TO TRUSS. ALLOWABLE UPLIFT=2570 lbs	FL17236.7 R7 EXP: 10/31/2022 WOOD TO STEEL

SUPERIMPOSED LOADS		
LOCATION / USE	DEAD	LIVE
COMMUNITY CENTER	25 PSF	100 PSF
OFFICES	25 PSF	50 PSF
STAIRS	25 PSF	100 PSF
CORRIDORS	25 PSF	100 PSF
MECHANICAL ROOMS	10 PSF	150 PSF

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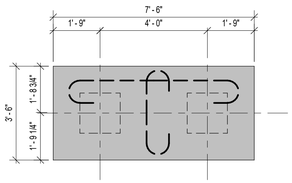
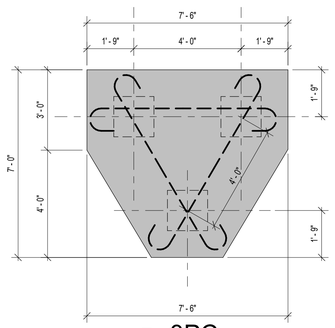
of

CENTER OF PILE CAP SHALL COINCIDE
WITH CENTER OF COLUMN ABOVE



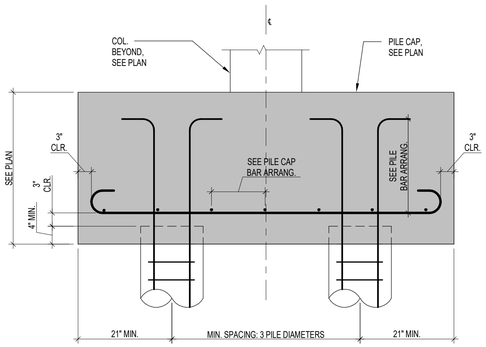
2 PC
f'C = 5000 PSI
12 #6 SHORT WAY T. & B.
6 #6 LONG WAY T. & B.
THICKNESS = 32"

1 S2.0 2PC
3/8" = 1'-0"



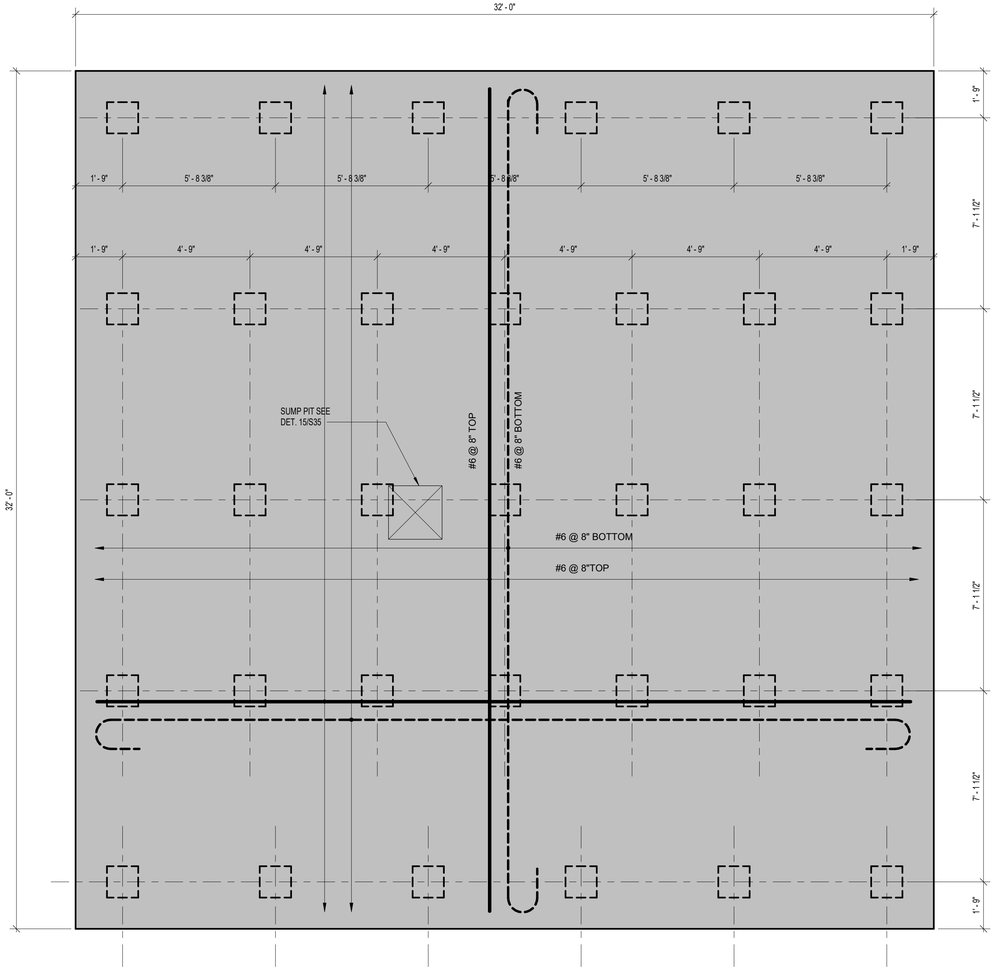
2 S2.0 3PC
3/8" = 1'-0"

3 PC
f'C = 5000 PSI
6 #6 E.A. DIRECTION T. & B.
THICKNESS = 32"



TYP. PILE CAP REINF.

4 S2.0 PILE PILE CAP REINF.
3/4" = 1'-0"



33 PC
f'C = 5000 PSI
THICKNESS = 32"

3 S2.0 33 PC
3/8" = 1'-0"

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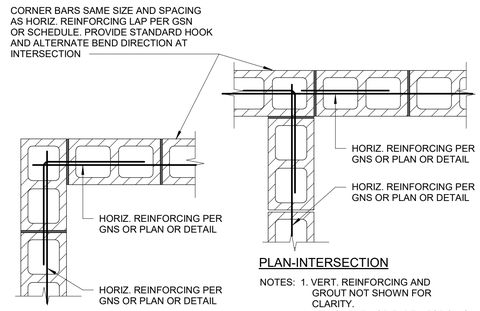
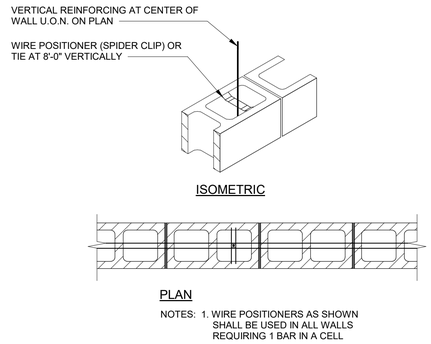


NOTES: 1. VERT. REINFORCING AND GROUT NOT SHOWN FOR CLARITY.
2. AT DOUBLE HORIZ. REINFORCING PROVIDE CORNER BAR FOR EACH HORIZ. BAR (TYPICAL).

TYP. CORNER REINF. IN MASONRY

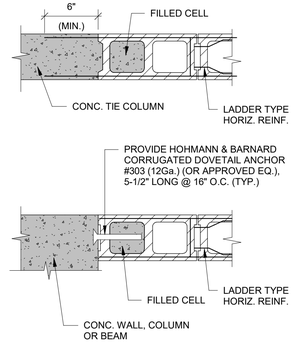
1 S2.1 **DETAIL A**
1 1/2" = 1'-0"



NOTES: 1. WIRE POSITIONERS AS SHOWN SHALL BE USED IN ALL WALLS REQUIRING 1 BAR IN A CELL

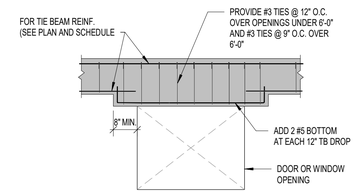
VERTICAL REINF. IN MASONRY

2 S2.1 **DETAIL B**
1 1/2" = 1'-0"



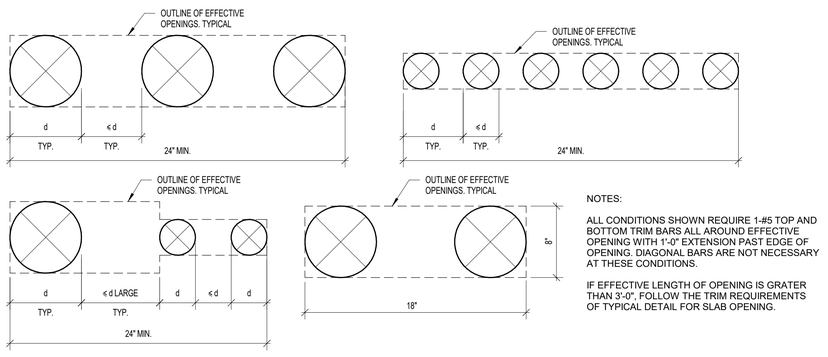
TYP. MASONRY ANCHOR DETAIL

3 S2.1 **DETAIL C**
1 1/2" = 1'-0"



DROPED TIE BEAM DETAIL

4 S2.1 **DETAIL D**
1/2" = 1'-0"



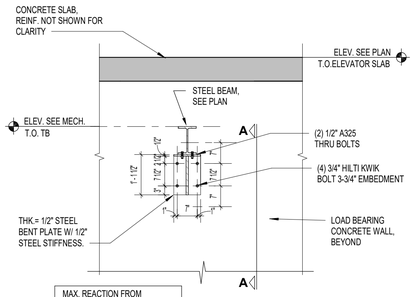
NOTES:

ALL CONDITIONS SHOWN REQUIRE 1-#5 TOP AND BOTTOM TRIM BARS ALL AROUND EFFECTIVE OPENING WITH 1'-0" EXTENSION PAST EDGE OF OPENING. DIAGONAL BARS ARE NOT NECESSARY AT THESE CONDITIONS.

IF EFFECTIVE LENGTH OF OPENING IS GRATER THAN 3'-0", FOLLOW THE TRIM REQUIREMENTS OF TYPICAL DETAIL FOR SLAB OPENING.

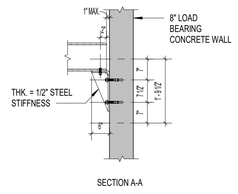
TYPICAL MULTIPLE CONCRETE SMALL SLAB OPENINGS

5 S2.1 3/4" = 1'-0"

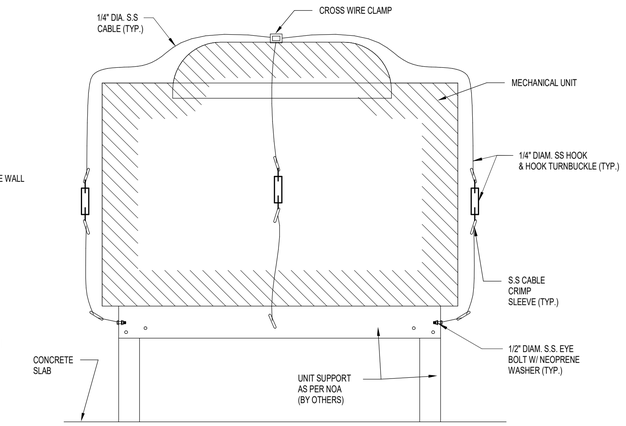


JOIST BEAM DETAIL

6 S2.1 1/2" = 1'-0"



HOIST BEAM CONNECTION



MECHANICAL UNITS SUPPORT

7 S2.1 1" = 1'-0"

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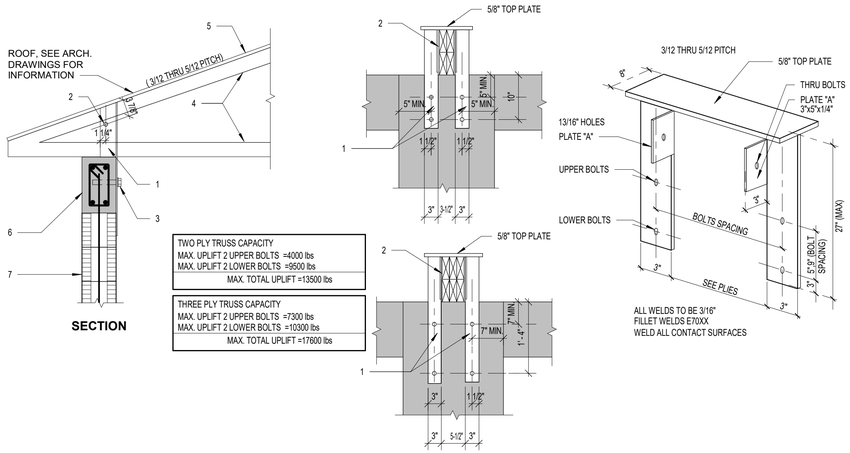
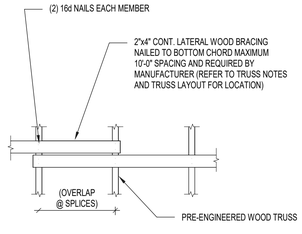


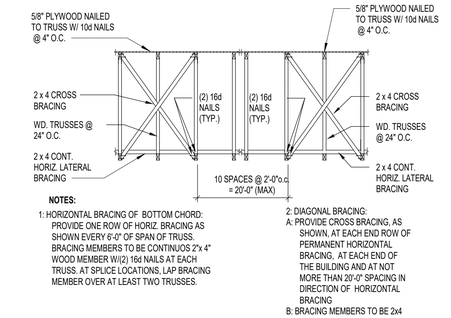
SCHEDULE			
MARK	DESCRIPTION	MARK	DESCRIPTION
1	3/16 STEEL PLATES (TYP.)	4	PREFABRICATED TWO OR THREE PLY TRUSS
2	ONE (1) 3/4" DIA. THRU BOLT FOR TWO PLY TRUSS ONE (1) 3/4" DIAM. THRU BOLT FOR THREE PLY TRUSS	5	MIN. 5/8" EXTERIOR GRADE PLYWOOD. SEE PLAN FOR NAILING REQMTS.
3	3/4" DIAM. X 6 1/2" MINIMUM PENETRATION EXPANTION ANCHOR BY HILTI (4 BOLTS MINIMUM PER CONNECTION)	6	MIN. 8" X 16" CONC. TIE BEAM
		7	CONCRETE MASONRY BLOCK

CONNECTOR DETAIL

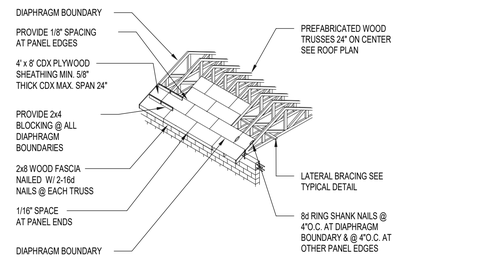
1 S2.2 — DETAIL A
3/4" = 1'-0"



TYP. LATERAL BRACE SPLICE

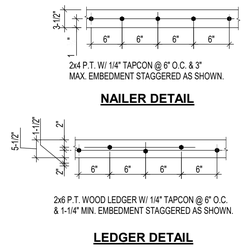


PERMANENT TRUSS CROSS BRACING



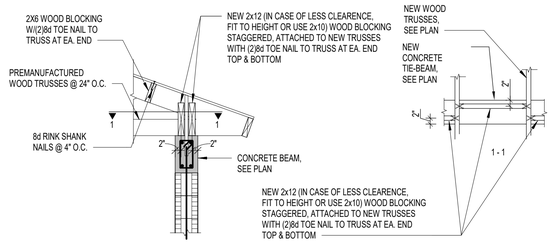
PLYWOOD NAILING DETAIL

2 S2.2 — DETAIL B
1/2" = 1'-0"



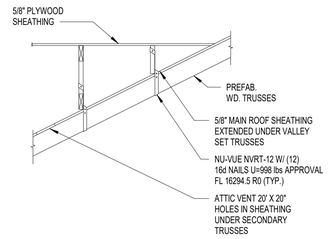
LEDGER & NAILER DETAIL

3 S2.2 — DETAIL C
1/2" = 1'-0"



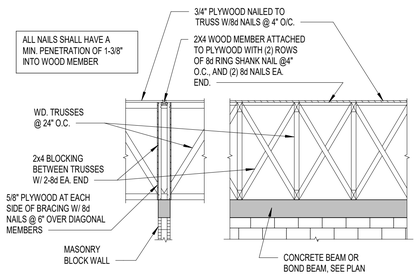
TYPICAL CONNECTION

4 S2.2 — DETAIL D
1/2" = 1'-0"



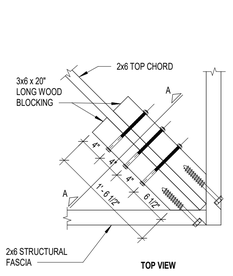
PIGGY BACK DETAIL

5 S2.2 — DETAIL E
1/2" = 1'-0"



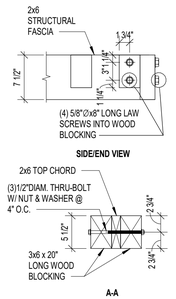
TRUSS BRACING AT SUPPORT

8 S2.2 — DETAIL H
1/4" = 1'-0"



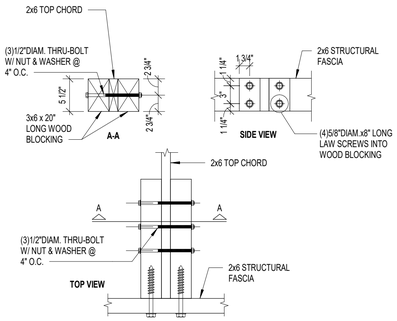
STRUCTURAL FASCIA CORNER CONNECTION

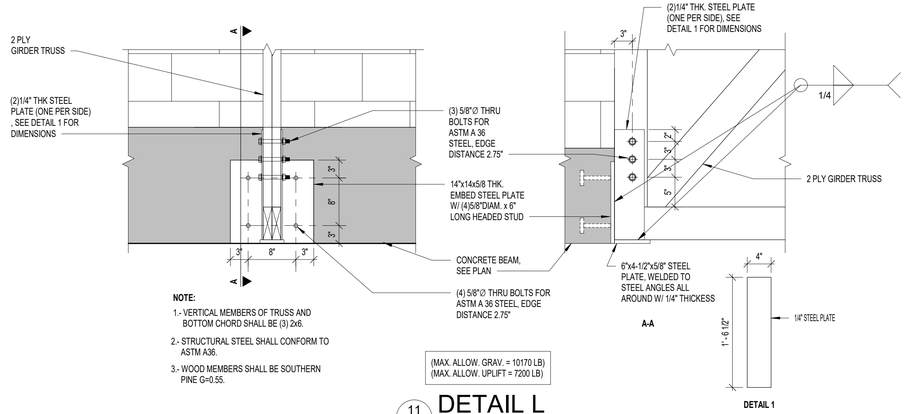
9 S2.2 — DETAIL J
1" = 1'-0"



STRUCTURAL FASCIA INTERMEDIATE CONNECTION

10 S2.2 — DETAIL K
1" = 1'-0"





STRUCTURAL FASCIA INTERMEDIATE CONNECTION

11 S2.2 — DETAIL L
1" = 1'-0"

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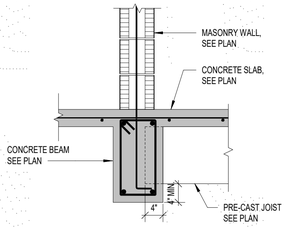
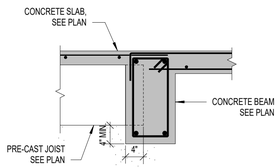


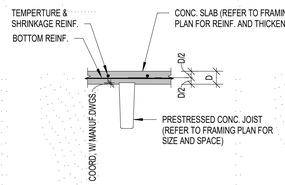
PRE-CAST JOIST TO CONC. BEAM DETAIL

1 S2.3 DETAIL A
3/4" = 1'-0"



TYPICAL DETAIL

2 S2.3 DETAIL B
3/4" = 1'-0"



TYPICAL DETAIL

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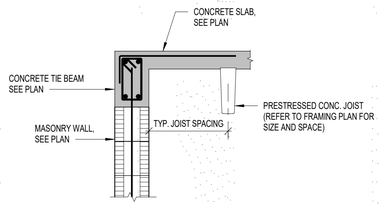
3/4" = 1'-0"



TYPICAL DETAIL

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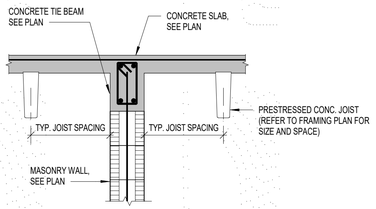
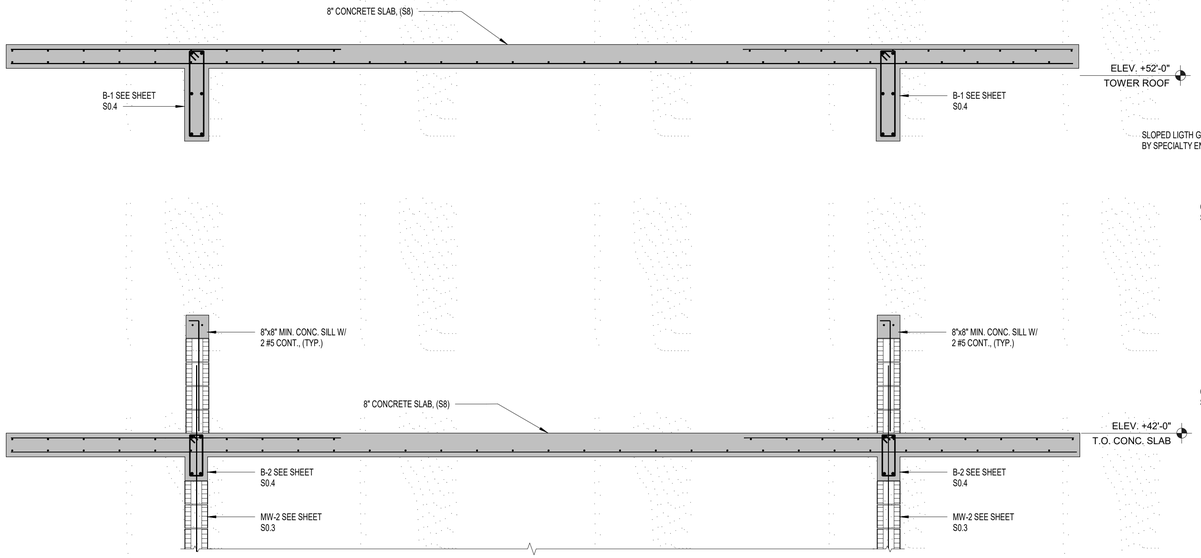
3/4" = 1'-0"

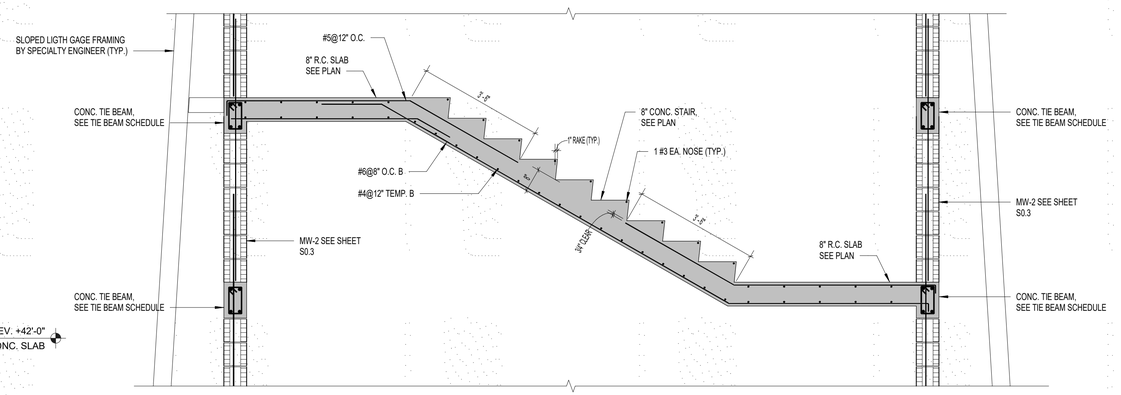


TYPICAL DETAIL

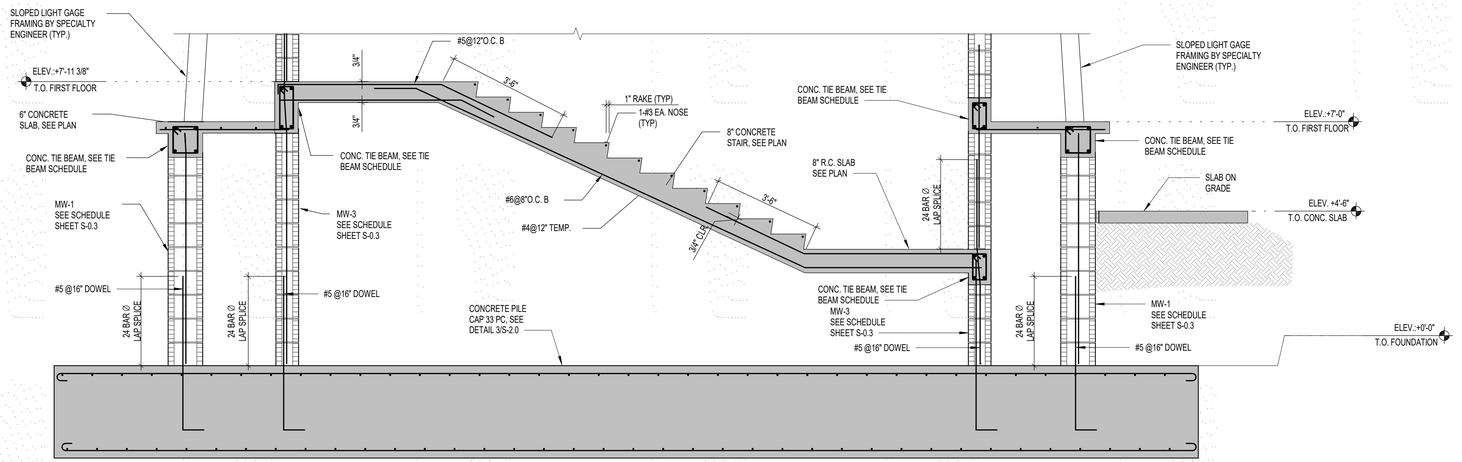
5 S2.3 DETAIL E
3/4" = 1'-0"



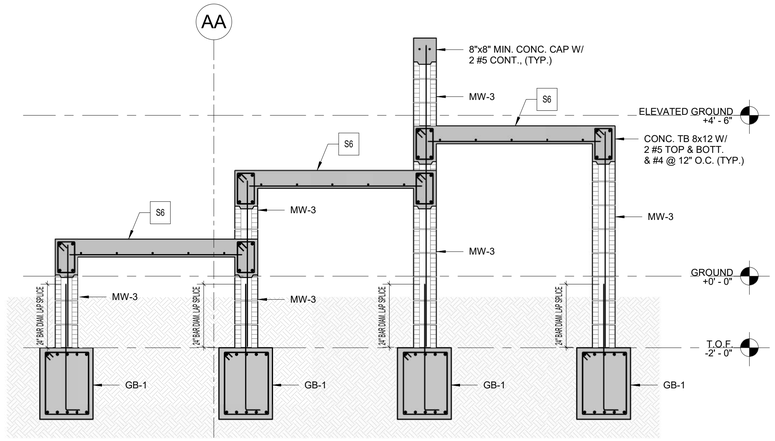
6 S2.3 SECTION
1/2" = 1'-0"



7 S2.3 SECTION
1/2" = 1'-0"



8 S2.3 SECTION
1/2" = 1'-0"



9 S2.3 SECTION
1/2" = 1'-0"

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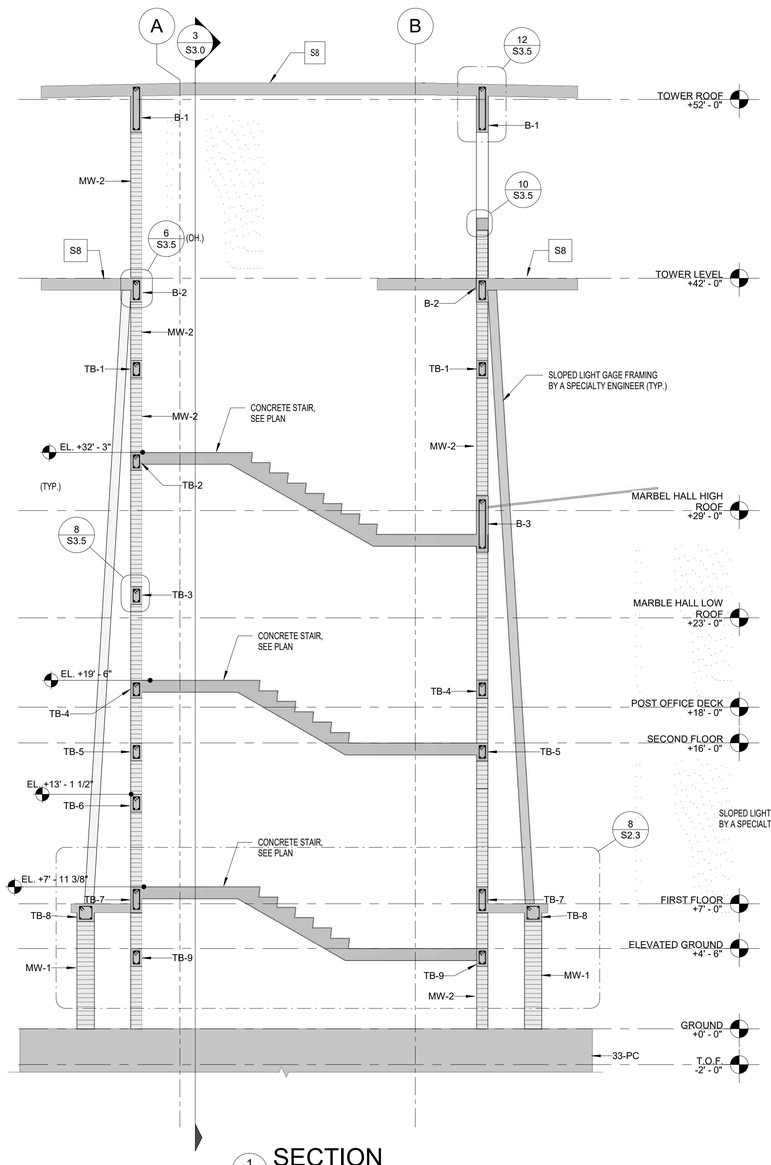

1 S3.0 SECTION
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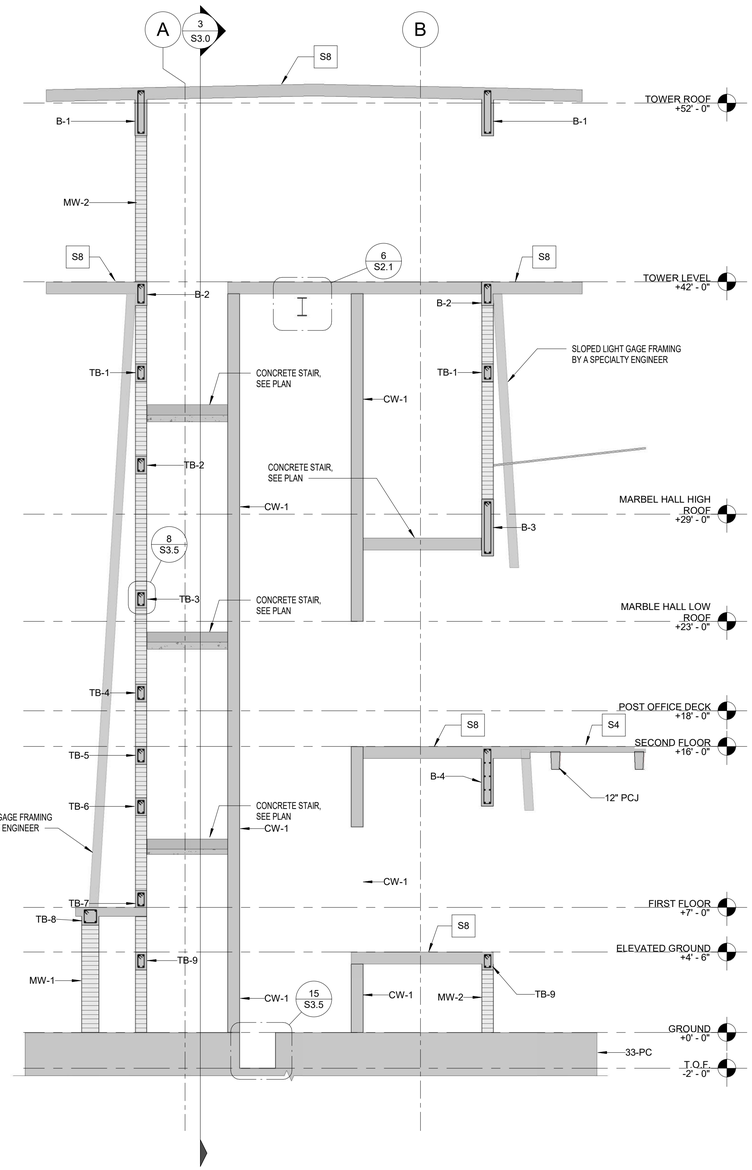

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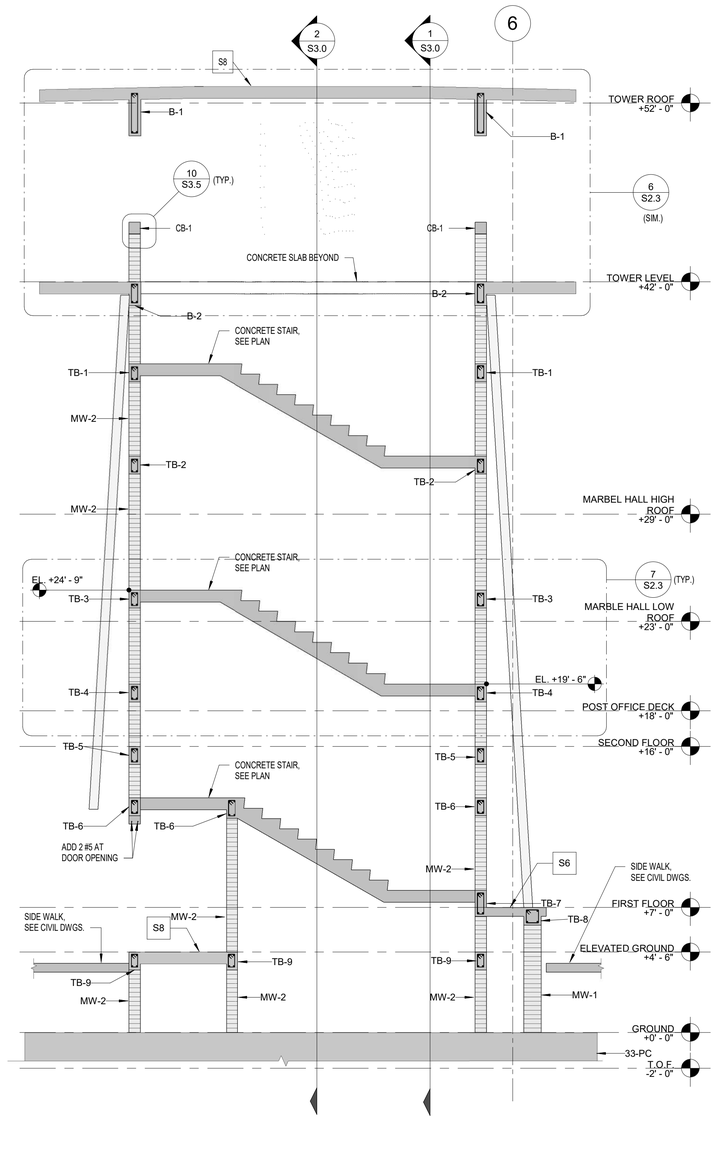
1/4" = 1'-0"



3 S3.0 SECTION
1/4" = 1'-0"

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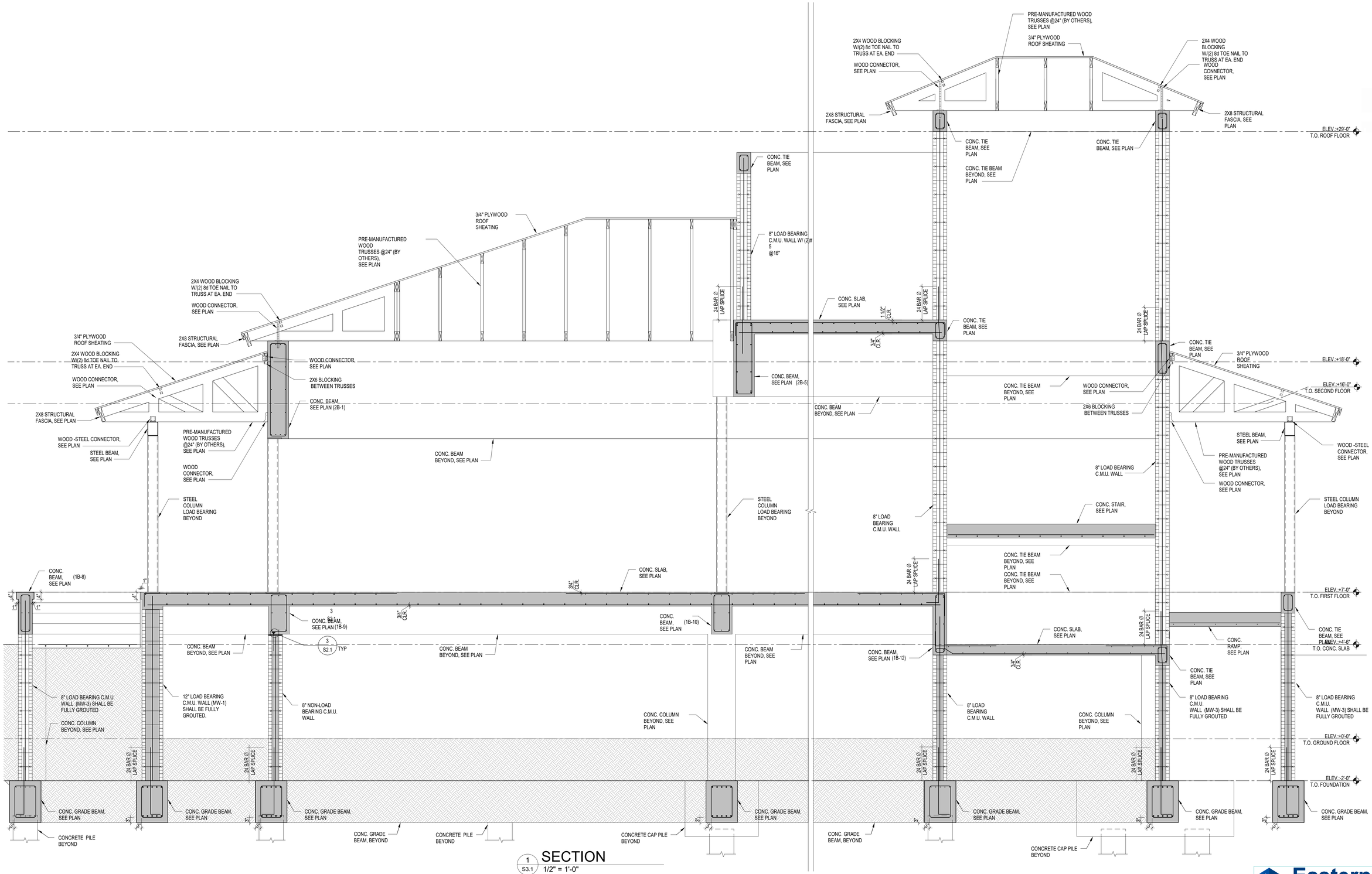

1 S3.1 SECTION
1/2" = 1'-0"

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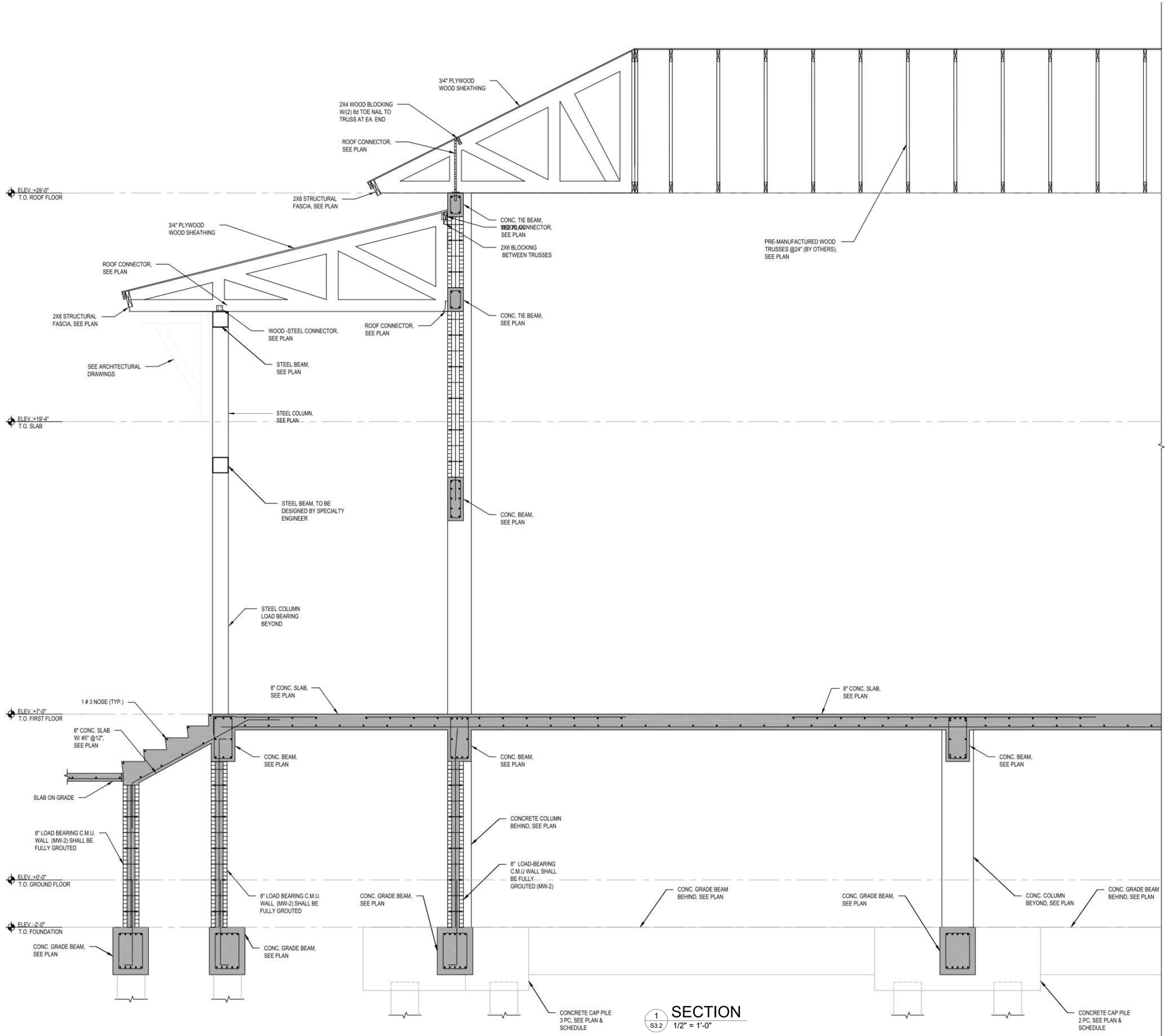
sheet number
S3.1

sheet:
of



1 S3.2 SECTION
1/2" = 1'-0"

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LIVS project number:
21-0580

Client project number:
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sheet title
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05.01.23

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Author	Checker

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

seal

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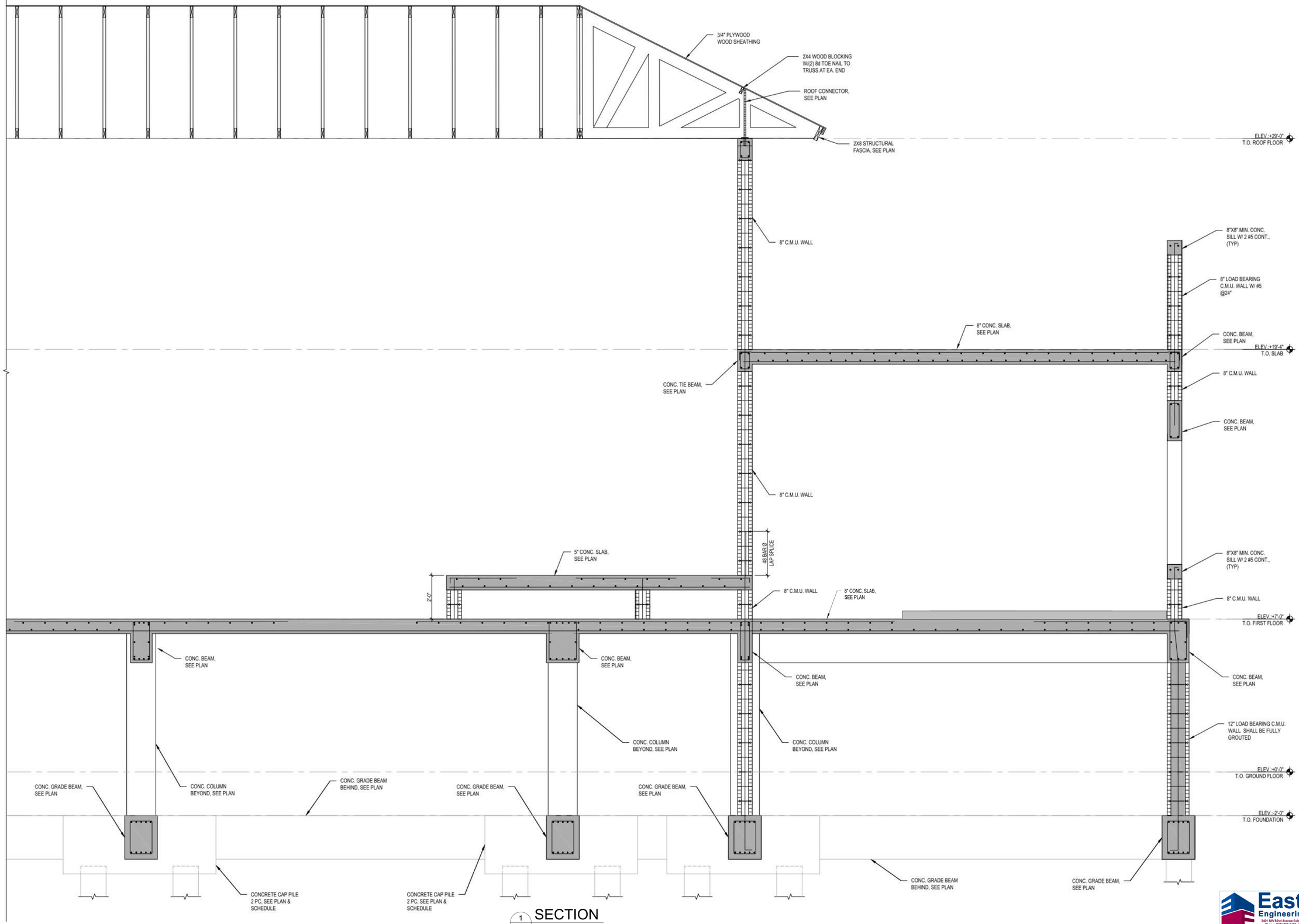

1 S3.2A SECTION
1/2" = 1'-0"

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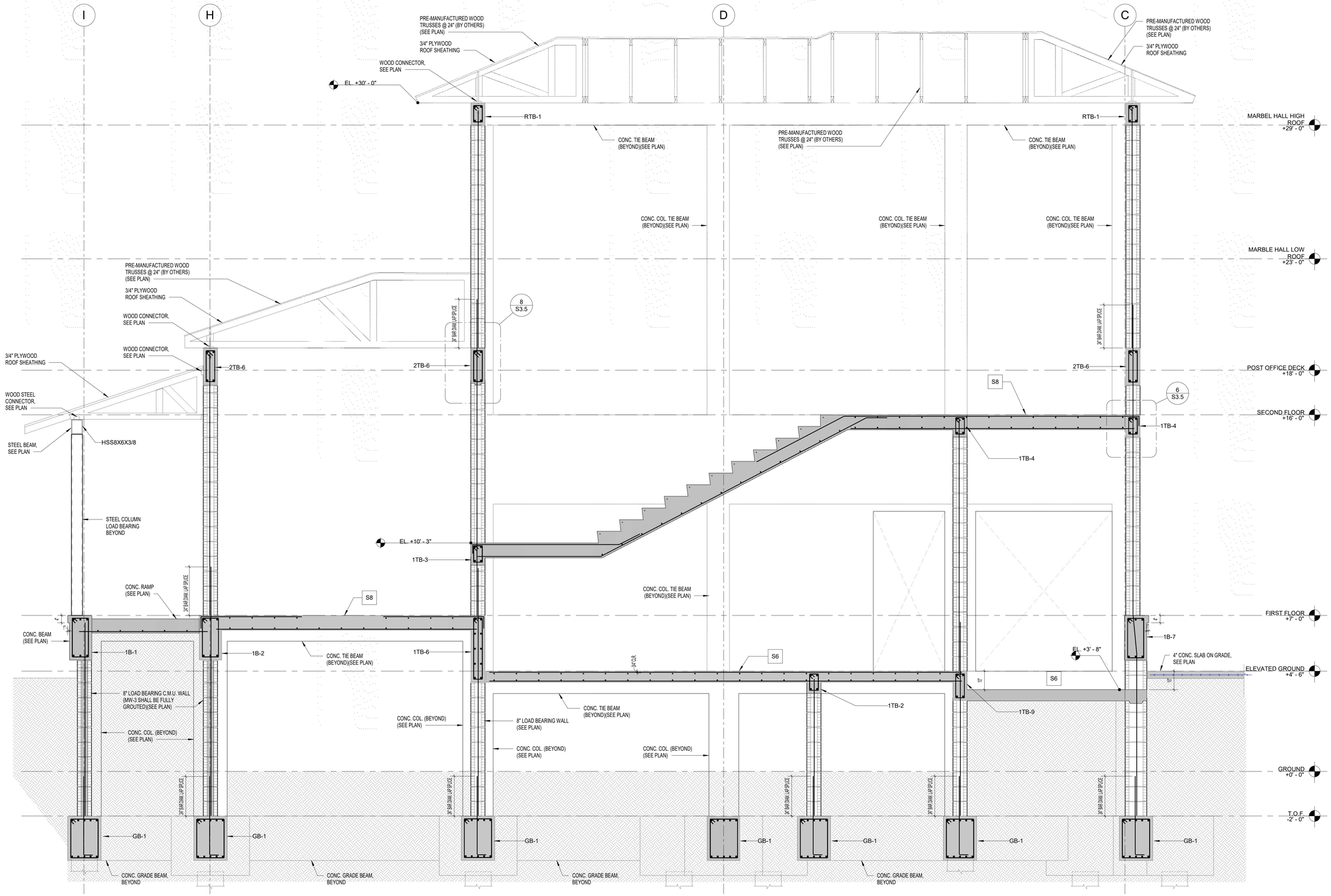
of



1 S3.3 SECTION
1/2" = 1'-0"

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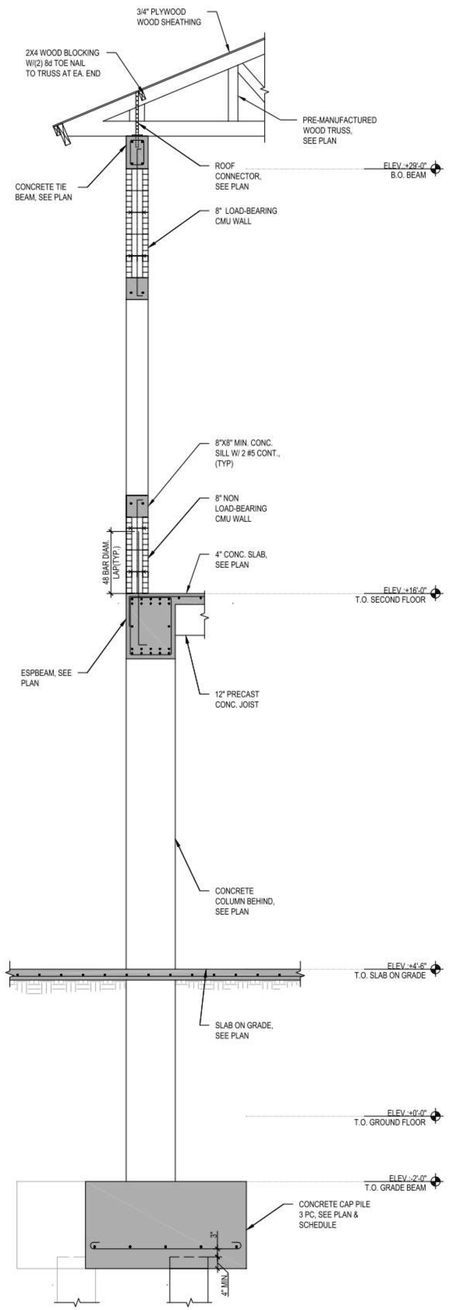

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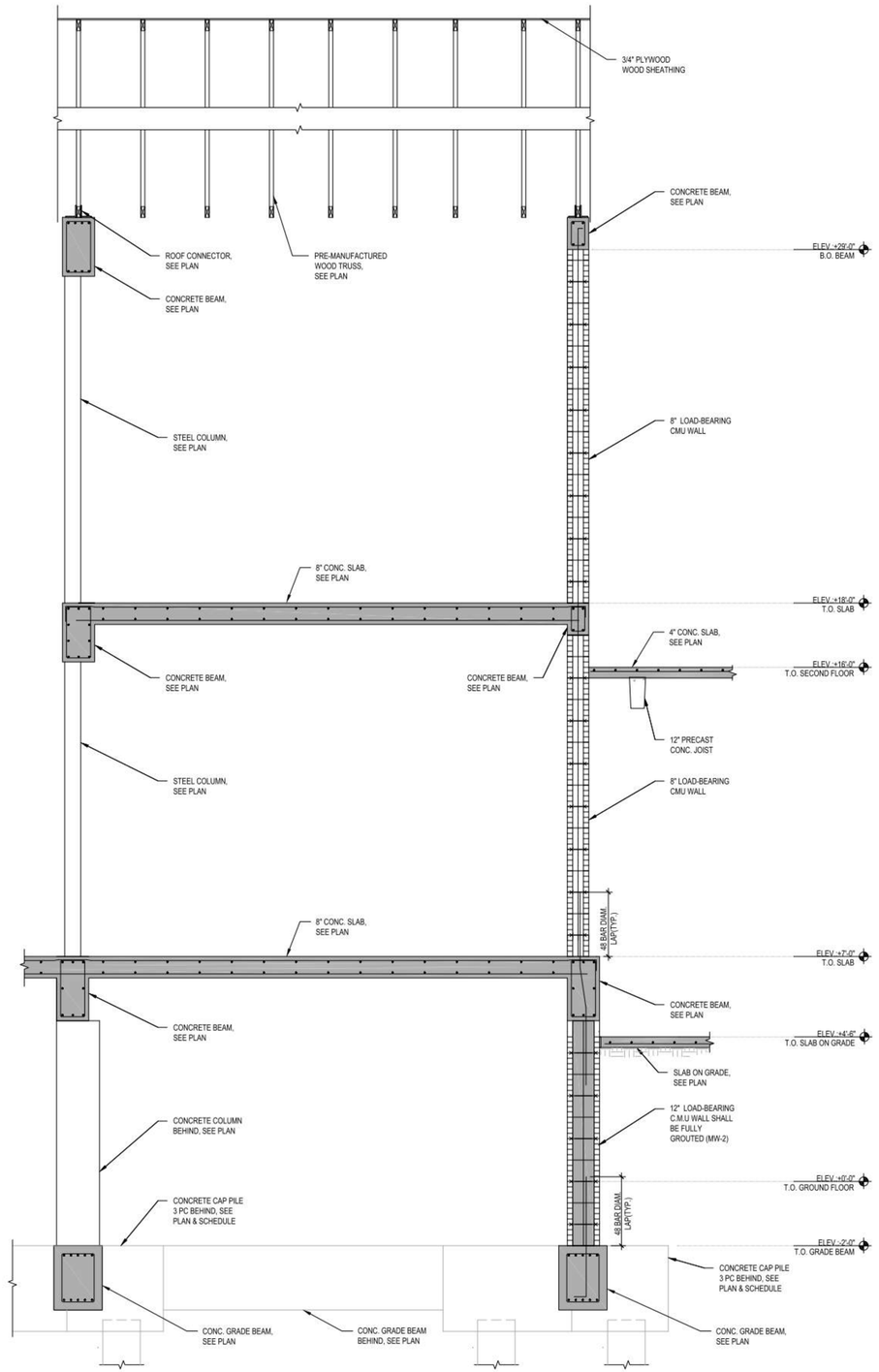

2 S3.4 SECTION
1/2" = 1'-0"

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R.M.	R.L.

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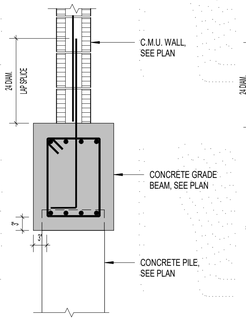
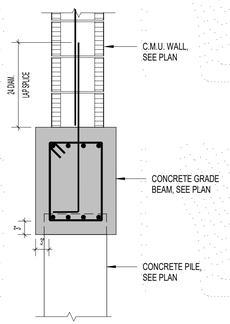
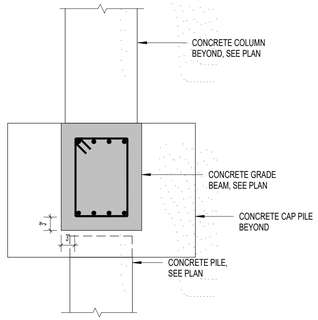


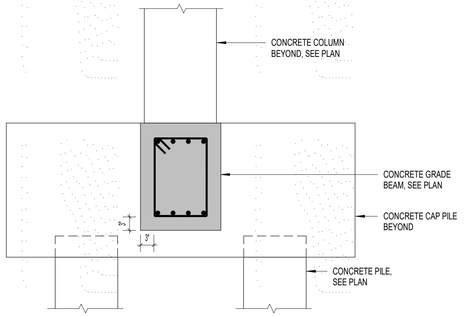
1 S3.5 **DETAIL** 3/4" = 1'-0"



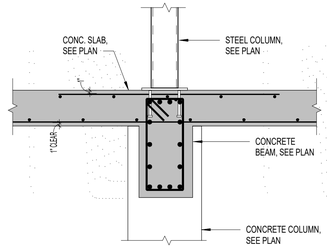
2 S3.5 **DETAIL** 3/4" = 1'-0"



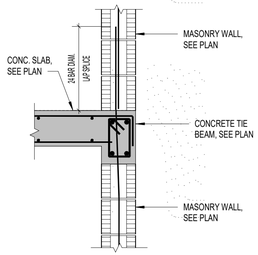
3 S3.5 **DETAIL** 3/4" = 1'-0"



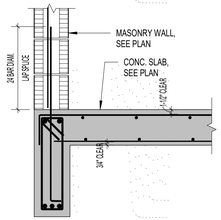
4 S3.5 **DETAIL** 3/4" = 1'-0"



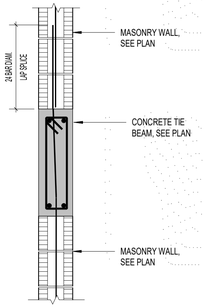
5 S3.5 **DETAIL** 3/4" = 1'-0"



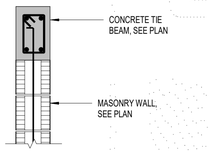
6 S3.5 **DETAIL** 3/4" = 1'-0"



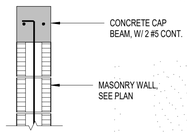
7 S3.5 **DETAIL** 3/4" = 1'-0"



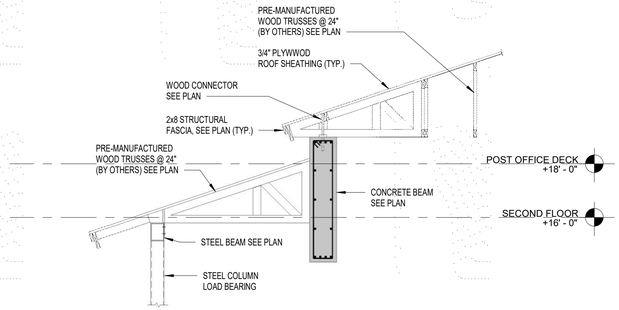
8 S3.5 **DETAIL** 3/4" = 1'-0"



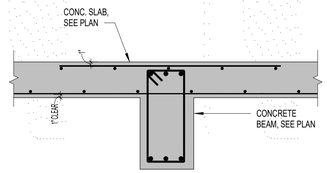
9 S3.5 **DETAIL** 3/4" = 1'-0"



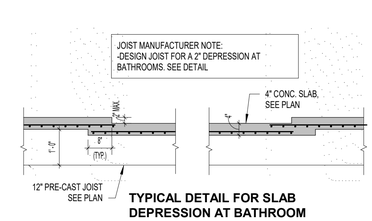
10 S3.5 **DETAIL** 3/4" = 1'-0"



11 S3.5 **DETAIL** 3/8" = 1'-0"

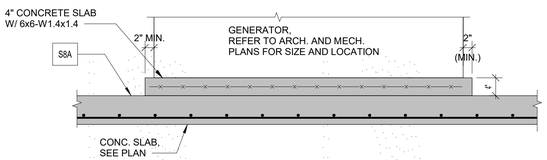


12 S3.5 **DETAIL** 3/4" = 1'-0"

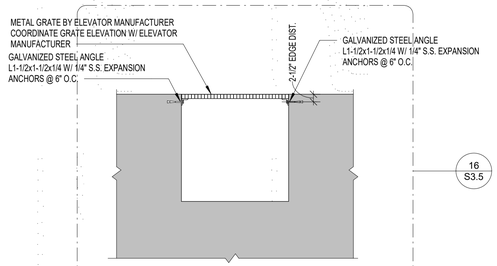


TYPICAL DETAIL FOR SLAB DEPRESSION AT BATHROOM

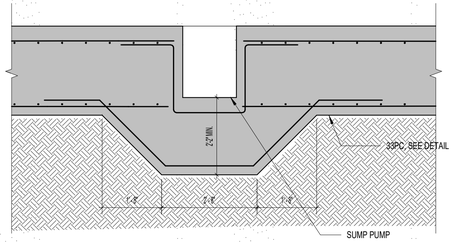
13 S3.5 **DETAIL** 1/2" = 1'-0"



14 S3.5 **HOUSEKEEPING PAD** 3/4" = 1'-0"



15 S3.5 **SUMP PIT DETAIL** 3/4" = 1'-0"



SUMP PUMP PIT REINF. DETAIL

16 S3.5 **DETAIL** 1/2" = 1'-0"

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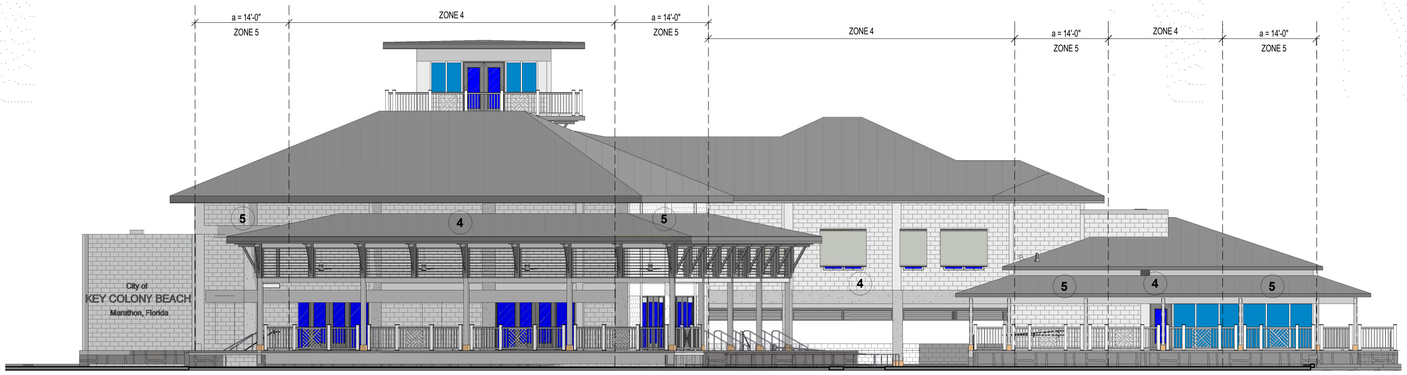
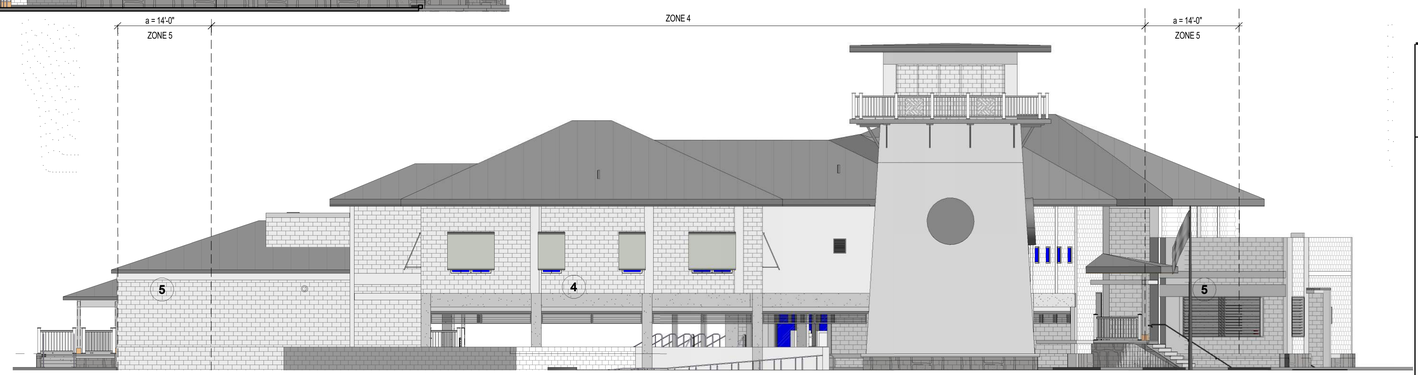
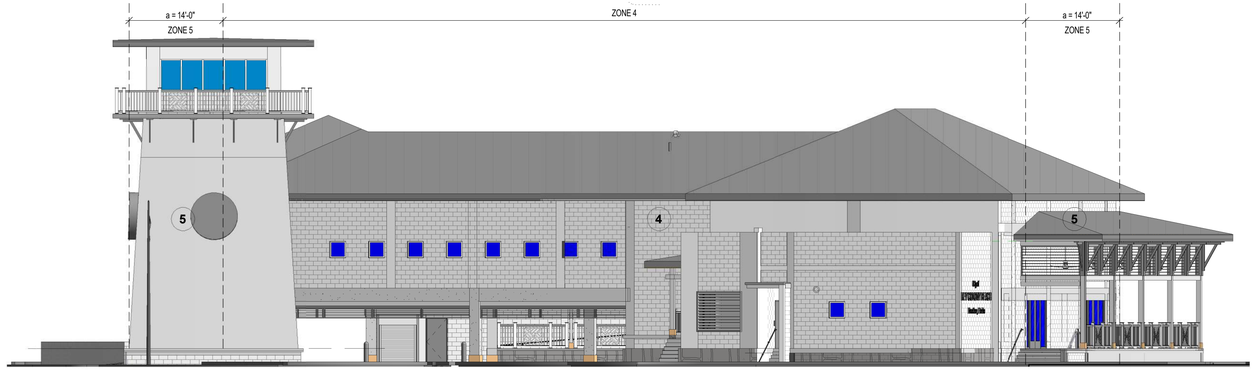


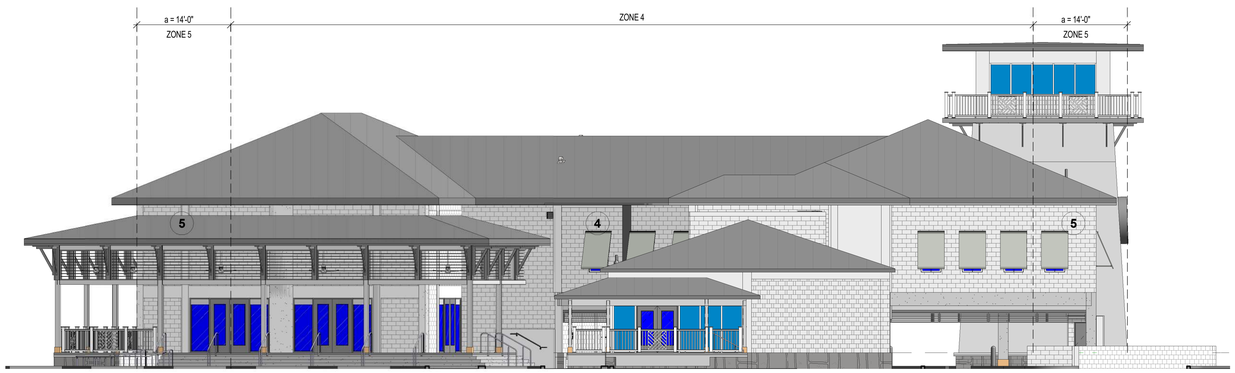
2 S4.0 North Elevation
3/32" = 1'-0"



1 S4.0 South Elevation
3/32" = 1'-0"



4 S4.0 East Elevation
3/32" = 1'-0"



5 S4.0 West Elevation
3/32" = 1'-0"

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DESIGN WIND PRESSURES

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approved by: R.L.

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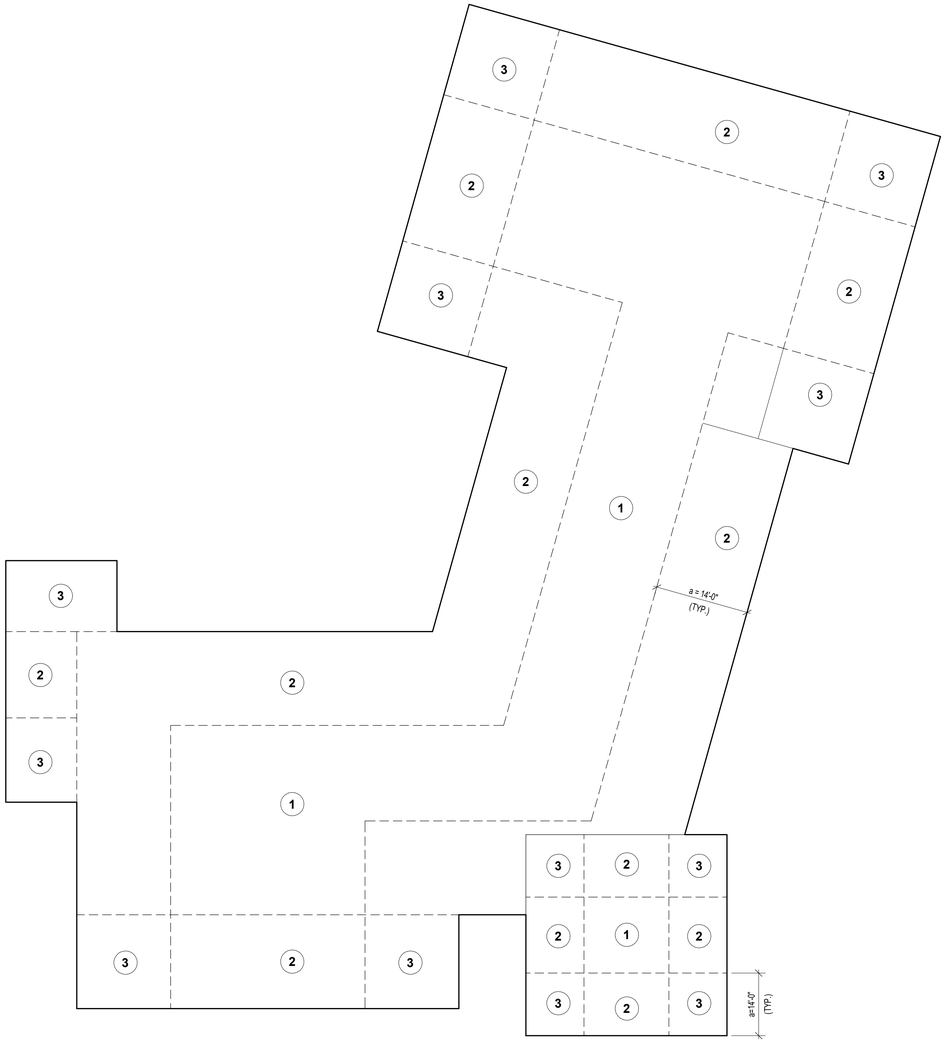
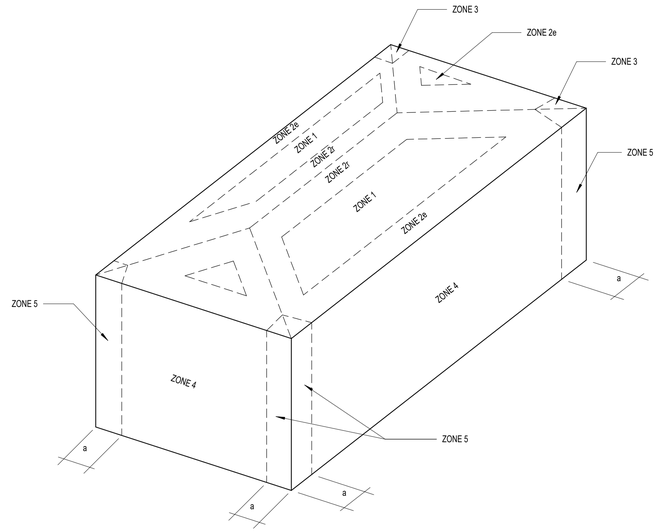


1 S4.1 ROOF WIND PRESSURES
3/32" = 1'-0"



2 S4.1 HIP ROOF
1 1/2" = 1'-0"

KEY COLONY

BUILDING MEAN ROOF HEIGHT: 39.50 FEET
BUILDING EXPOSURE COEFF. @ ROOF: Kh= 1.219
VELOCITY PRESSURE @ ROOF HEIGHT: qh= 63.67 SF
ROOF GUST FACTOR COEFF: Gh= 0.85
INTERNAL PRESSURE COEFF: GCpi= + 0.18

FOR COMPONENTS AND CLADDING:

WIND PRESSURE COEFF. ZONE:
a = 0.1 X WIDTH =14.758 OR
a = 0.4 X HEIGTH = 15.6 NOT LESS THAN
a = 3.0
USE a = 14.758 FEET

MAXIMUM VERTICAL (ASD) WIND LOAD (ROOF)

ZONE 1		
AREA	PRESSURE	
10SF	-94.23	PSF
20SF	-94.23	PSF
50SF	-83.36	PSF

ZONE 2e		
AREA	PRESSURE	
10SF	-126.07	PSF
20SF	-115.75	PSF
50SF	-102.12	PSF

ZONE 2r		
AREA	PRESSURE	
10SF	-164.27	PSF
20SF	-148.06	PSF
50SF	-126.64	PSF

ZONE 3		
AREA	PRESSURE	
10SF	-129.07	PSF
20SF	-115.75	PSF
50SF	-102.12	PSF

MAXIMUM HORIZONTAL (ASD) WIND LOAD (WALLS)

ZONE 4		
AREA	PRESSURE	
10SF	-81.50	PSF
	+75.13	PSF
20SF	-78.11	PSF
	+71.75	PSF
50SF	-73.64	PSF
	+67.27	PSF

ZONE 5		
AREA	PRESSURE	
10SF	-100.60	PSF
	+75.13	PSF
20SF	+93.83	PSF
	-71.75	PSF
50SF	-84.88	PSF
	+67.27	PSF

MAXIMUM VERTICAL (ASD) WIND LOAD (OVERHANGS)

ZONE 1 OHS		
AREA	PRESSURE	
10SF	126.07(-)	PSF
20SF	129.90 (-)	PSF
50SF	134.97 (-)	PSF

ZONE 2r OHS		
AREA	PRESSURE	
10SF	196.10 (-)	PSF
20SF	187.26 (-)	PSF
50SF	175.58 (-)	PSF

ZONE 2e OHS		
AREA	PRESSURE	
10SF	157.90 (-)	PSF
20SF	154.96 (-)	PSF
50SF	151.06 (-)	PSF

ZONE 3 OHS		
AREA	PRESSURE	
10SF	196.10 (-)	PSF
20SF	176.95 (-)	PSF
50SF	151.64 (-)	PSF

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