

SUBMITTAL LOG

ISSUED FOR BID ISSUED FOR REBID

OWNER REVIEW - NOT FOR CONSTRUCTION

REVISION 1 - SPD COMMENTS (PART OF SDP SET)

REVISION 2 - BLDG DEPT REVIEW PERMIT COMMENTS

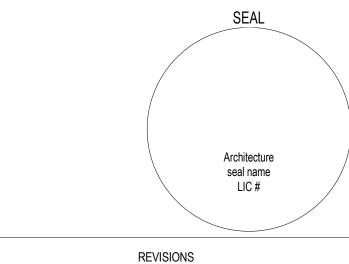
SDP PERMIT TRACKING NUMBER: PL20210001092

IMAGE PROJEC

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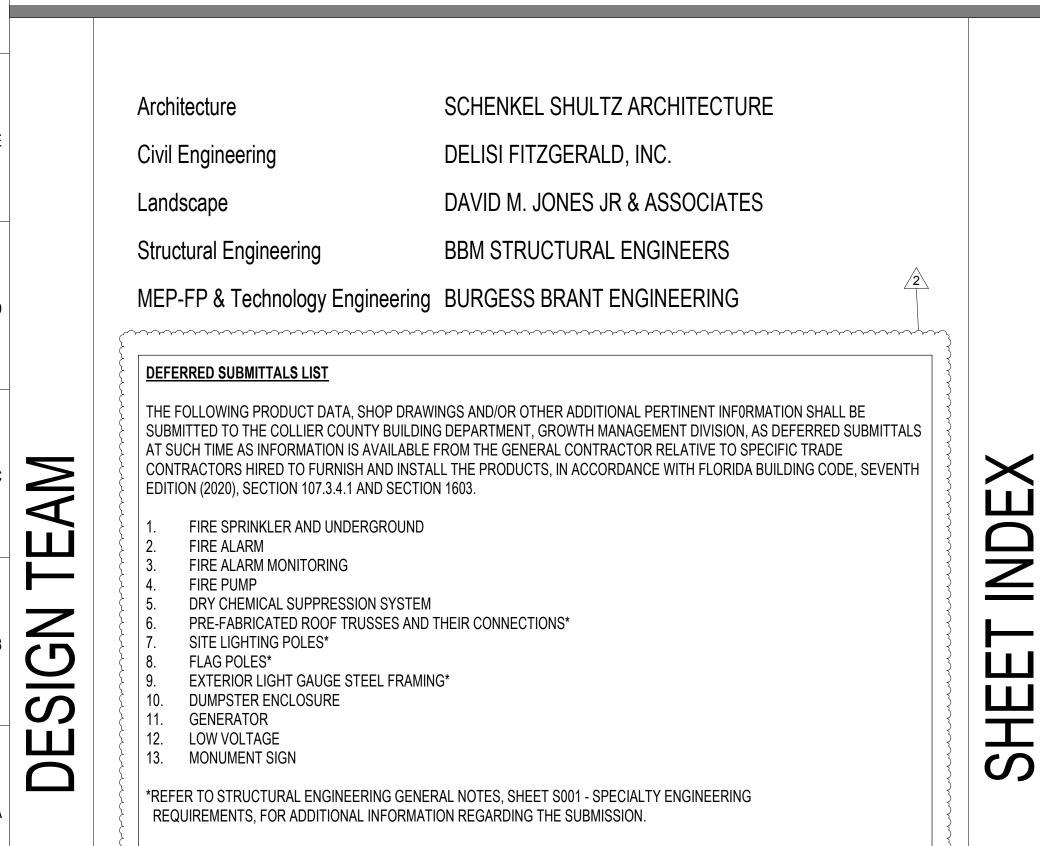
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DESCRIPTION DATE

Collier County Fire & EMS Station #74

BID SET 01.20.2023



SHEET NUMBER	SHEET TITLE
G000	COVER SHEET
G001	GENERAL INFORMATION AND ABBREVIATIONS
G100	CODE SUMMARY & CALCULATIONS
G101	LIFE SAFETY PLAN
G201	TYPICAL PARTITION DIAGRAMS AND NOTES
G202	PARTITION TYPES
G203	TYPICAL PARTITION DETAILS
G301	UL ASSEMBLIES
G302	UL ASSEMBLIES
PD001	M / E / P / FA / FP PENETRATION DETAILS

	CIVIL
SHEET NUMBER	SHEET TITLE
1	COVER SHEET, VICINITY MAP AND INDEX
2	AERIAL PHOTOGRAPH, EXISTING CONDITIONS, AND CLEARING PLAN
3	MASTER SITE, SIGNING, AND MARKING PLAN
4	PAVING, GRADING, AND DRAINAGE PLAN
5	UTILITY PLAN
6	TYPICAL SECTIONS
7	PAVING DETAILS
8	DRAINAGE DETAILS
9	UTILITY DETAILS
10	EROISON CONTROL PLAN
11	PRESERVE MANAGEMENT PLAN

	LANDSCAPE	
SHEET NUMBER	SHEET TITLE	
L-1	LANDSCAPE CALCULATIONS PLAN	
L-2	LANDSCAPE PLAN AND NOTES	
L-3	LANDSCAPE PLAN AND PLANT SCHEDULE	
L-4	LANDSCAPE DETAILS	
IR-1	IRRIGATION PLAN AND GENERAL NOTES	
IR-2	IRRIGATION MASTER PLAN, DETAILS & NOTES	

UTILITY IMPROVEMENTS	
SHEET NUMBER	SHEET TITLE
C1.0	COVER SHEET AND INDEX OF DRAWINGS
C2.0	SITE PLAN
C3.0	UTILITY SITE PLAN
C4.0	AERIAL MAP
C5.0	FLOW DIAGRAMS
C5.1	DETAILS

	EXTERIOR LIGHTING	
SHEET NUMBER	SHEET TITLE	
L.1	COVER	
L.2	POLE DETAIL, STATISTICS & LUMINAIRE SCHEDULES	
L.3	LUMINAIRE SPECIFICATIONS & LUMINAIRE PROPERTIES	
L.4	LUMINAIRE SPECIFICATIONS & LUMINAIRE PROPERTIES	
L.5	LUMINAIRE SPECIFICATIONS & LUMINAIRE PROPERTIES	
L.6	LUMINAIRE SPECIFICATIONS & LUMINAIRE PROPERTIES	
L.7	SITE PLAN	

	ARCHITECTURAL SITE
SHEET NUMBER	SHEET TITLE
AS001	ARCHITECTURAL SITE PLAN
AS002	ARCHITECTURAL SITE - DETAILS
HOULE	ANOTHE STORE STEEP LINES

	STRUCTURAL
SHEET NUMBER	SHEET TITLE
S001	STRUCTURAL GENERAL NOTES
S002	STRUCTURAL GENERAL NOTES
S003	STRUCTURAL GENERAL NOTES
S004	STRUCTURAL GENERAL NOTES
S101	FOUNDATION PLAN
S151	ROOF FRAMING PLAN
S201	FOUNDATION SECTIONS AND DETAILS
S202	FOUNDATION SECTIONS AND DETAILS
S301	ROOF FRAMING SECTIONS AND DETAILS
S401	SCHEDULES, SECTIONS AND DETAILS

ARCHITECTURAL	
SHEET NUMBER	SHEET TITLE
A101	FIRST FLOOR PLAN
A121	DIMENSION PLAN
A141	REFLECTED CEILING PLAN
A151	ROOF PLAN
A161	FINISH PLAN AND FINISH SCHEDULE
A171	EQUIPMENT PLAN
A190	SIGNAGE TYPES & NOTES
A191	SIGNAGE PLAN
A201	EXTERIOR ELEVATIONS
A251	INTERIOR ELEVATIONS - KITCHEN & MISC
A252	INTERIOR ELEVATIONS - RESTROOMS
A253	INTERIOR ELEVATIONS
A254	INTERIOR ELEVATIONS
A301	BUILDING SECTIONS
A351	WALL SECTIONS
A352	WALL SECTIONS
A353	WALL SECTIONS
A354	WALL SECTIONS
A401	ENLARGED FLOOR PLANS
A402	ENLARGED FLOOR PLANS
A461	BATHROOM FIXTURE CONFIGURATIONS
A500	DOOR SCHEDULE
A501	DOOR, LOUVER, STOREFRONT & FRAME TYPES
A510	DETAILS - DOOR / WINDOW / LOUVER
A511	DETAILS - DOOR / WINDOW / LOUVER
A512	DETAILS - DOOR / WINDOW / LOUVER
A521	DETAILS - EXTERIOR
A541	DETAILS - CEILING
A551	DETAILS - ROOF
A561	DETAILS - INTERIOR
A571	MILLWORK & CASEWORK - DETAILS
A572	MILLWORK & CASEWORK - DETAILS

	ELECTRICAL
SHEET NUMBER	SHEET TITLE
E001	<varies></varies>
E101	ELECTRICAL SITE PLAN
E102	POWER & SYSTEMS PLAN
E103	LOW VOLTAGE SYSTEMS PLAN
E201	LIGHTING PLAN
E301	PANEL SCHEDULES
E302	<varies></varies>

	FIRE ALARM
SHEET NUMBER	SHEET TITLE
FA001	FIRE ALARM NOTES & DETAILS
FA101	<varies></varies>
FA201	FIRE ALARM PLAN

	FIRE PROTECTION
SHEET NUMBER	SHEET TITLE
FP001	FIRE SPRINKLER GENERAL NOTES
FP101	FIRE SPRINKLER SITE PLAN
FP102	FIRE SPRINKLER PLAN

MECHANICAL	
SHEET NUMBER	SHEET TITLE
M001	MECHANICAL NOTES & LEGENDS
M002	MECHANICAL DETAILS & SCHEDULES
M101	MECHANICAL PLAN
M201	MECHANICAL CONTROLS
M202	<varies></varies>

	PLUMBING
SHEET NUMBER	SHEET TITLE
P001	PLUMBING NOTES AND SCHEDULES
P201	DOMESTIC WATER PLAN
P301	SANITARY DRAINAGE PLAN
P401	DOMESTIC WATER PLUMBING ISOMETRIC
P402	SANITARY PLUMBING ISOMETRIC
PD001	M / E / P / FA / FP PENETRATION DETAILS



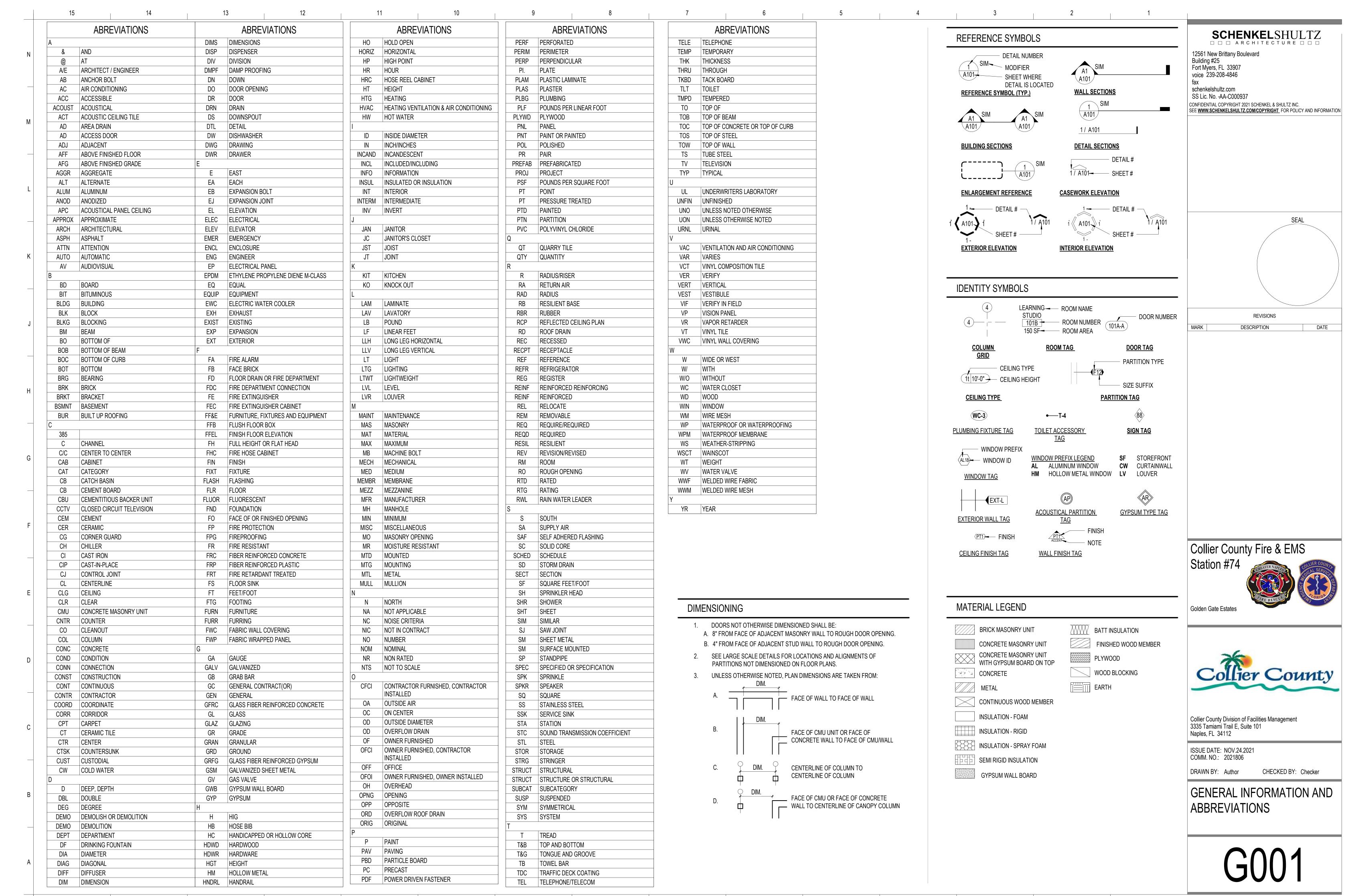


Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

CHECKED BY: SSA

COVER SHEET



GENERAL NOTES - ARCHITECTURE

1. EACH CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS AND OBTAIN ALL MEASUREMENTS REQUIRED FOR PROPER EXECUTION OF WORK. WHEN VERIFICATION OF EXISTING DIMENSIONS IS REQUIRED, THE CONTRACTOR REQUIRING SAID VERIFICATION FOR THE CONSTRUCTION OR FABRICATION OF HIS MATERIAL SHALL BE THE CONTRACTOR RESPONSIBLE FOR THE PROCUREMENT OF THE FIELD INFORMATION.

2. PROVIDE ALL WOOD BLOCKING NECESSARY FOR THE ATTACHMENT OF MISCELLANEOUS EQUIPMENT INCLUDING BUT NOT LIMITED TO TOILET ACCESSORIES, DOOR HARDWARE, ELECTRICAL DEVICES, LABORATORY EQUIPMENT, GRAB BARS, HANDRAILS, CASEWORK AND MILLWORK.

3. THE TRANSITION OF DIFFERENT FLOORING MATERIALS AT A DOORWAY SHALL OCCUR AT THE CENTERLINE OF DOOR UNLESS INDICATED OTHERWISE

4. ALL WALL SURFACES, DOOR FRAMES, BULKHEADS AND CEILINGS SHALL RECEIVE PAINT WHEN PAINT IS INDICATED ON THE FINISH SCHEDULE OR FINISH PLANS. PAINT SURFACES BEHIND MOVABLE EQUIPMENT AND FURNITURE SAME AS SIMILAR EXPOSED SURFACES. PAINT SURFACES BEHIND PERMANENTLY FIXED EQUIPMENT OR FURNITURE WITH PRIME COAT ONLY BEFORE FINAL INSTALLATION OF EQUIPMENT. PAINT ALL MECHANICAL AND ELECTRICAL EQUIPMENT EXPOSED IN FINISHED SPACES UNLESS INDICATED OTHERWISE.

5. REPAIR ALL SURFACES DAMAGED BY RENOVATION AND NEW CONSTRUCTION TO MATCH EXISTING ADJACENT OR CONTIGUOUS FINISH.

6. ALL CUTTING AND PATCHING AS A RESULT OF NEW CONSTRUCTION OR DEMOLITION SHALL BE PERFORMED IN A WORKMANLIKE MANNER, AND SHALL MATCH IN COLOR, SHAPE, SIZE AND TEXTURE ADJACENT AND/OR CONTIGUOUS FINISHED SURFACES.

7. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.

8. DETAILED DRAWINGS AND LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS

9. UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TAKEN FROM FACE OF CMU OR CONCRETE TO FACE OF WALL, OR FACE OF WALL TO FACE OF WALL

10. DOORS NOT OTHERWISE DIMENSIONED SHALL BE 8" FROM FACE OF ADJACENT CMU OR CONCRETE WALL TO ROUGH DOOR OPENING, AND 4" FROM FACE OF ADJACENT STUD WALL TO ROUGH DOOR OPENING.

11. FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE PRODUCT MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND STANDARD DETAILS, IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATION REQUIREMENTS AND DESIGN INTENT.

12. PROVIDE FIRE EXTINGUISHERS (FE) AND FIRE EXTINGUISHER CABINETS (FEC) AS INDICATED ON THE PLANS. PROVIDE TYPE AND SIZE AS SPECIFIED.

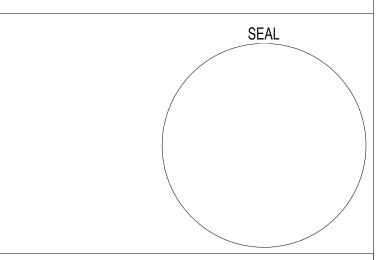
MOUNT AT 42" AFF TO TOP OF FE AND 48" AFF TO TOP OF FEC

SCHENKELSHULTZ

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REVISIONS					
MARK	MARK DESCRIPTION				
2	FEBRUARY 09, 2022				

Collier County Fire & EMS

Station #74

Golden Gate Estates

Collier County

Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

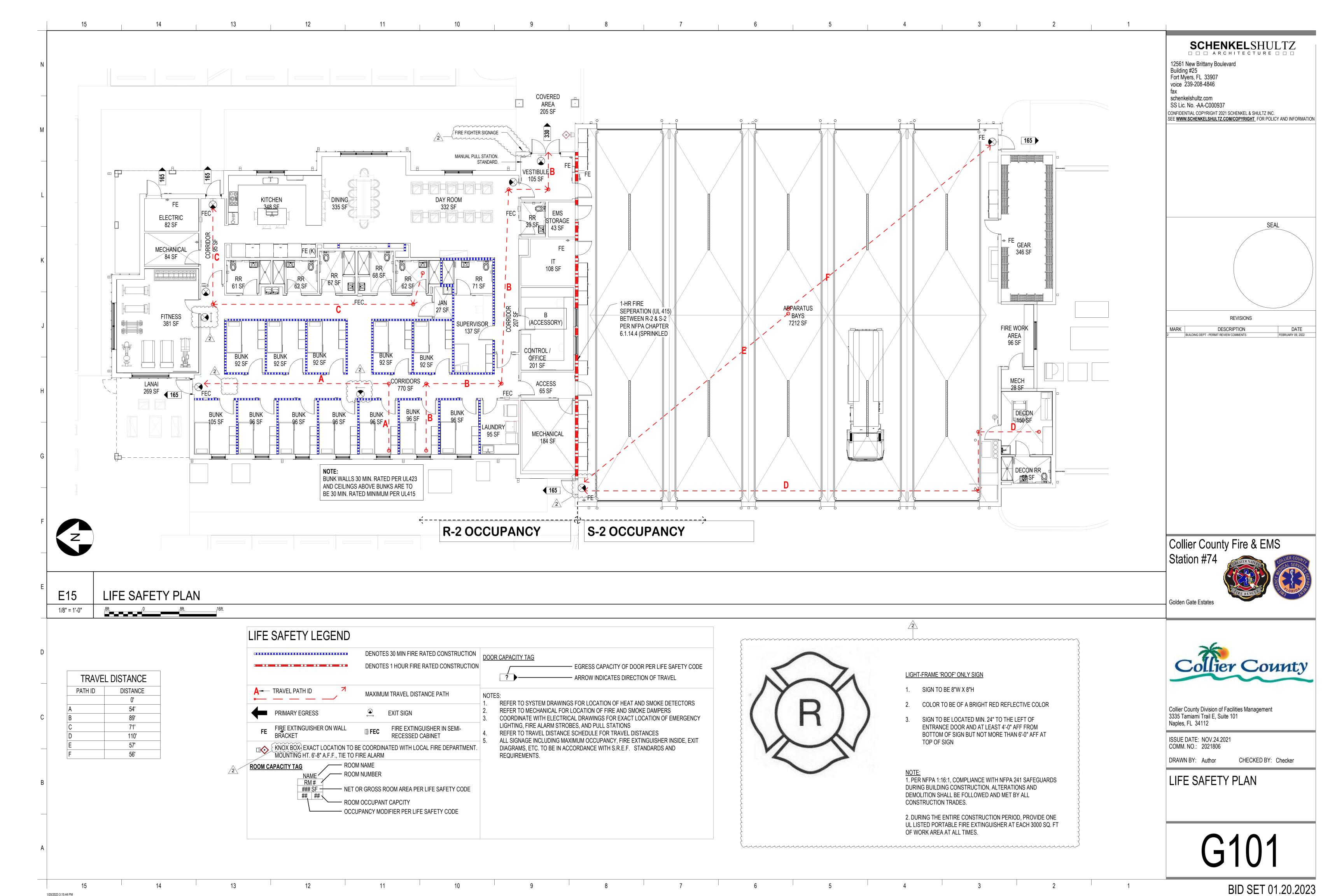
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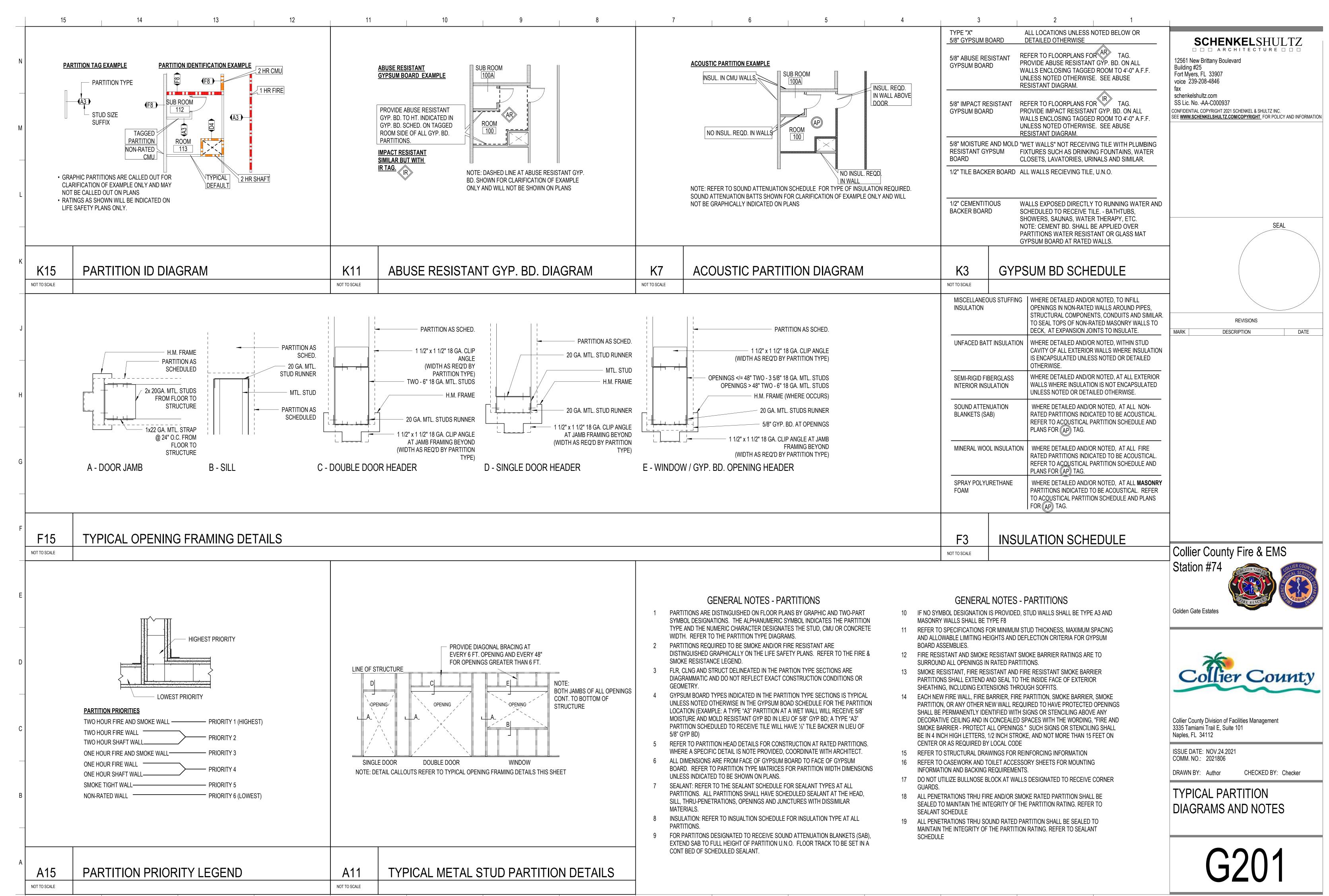
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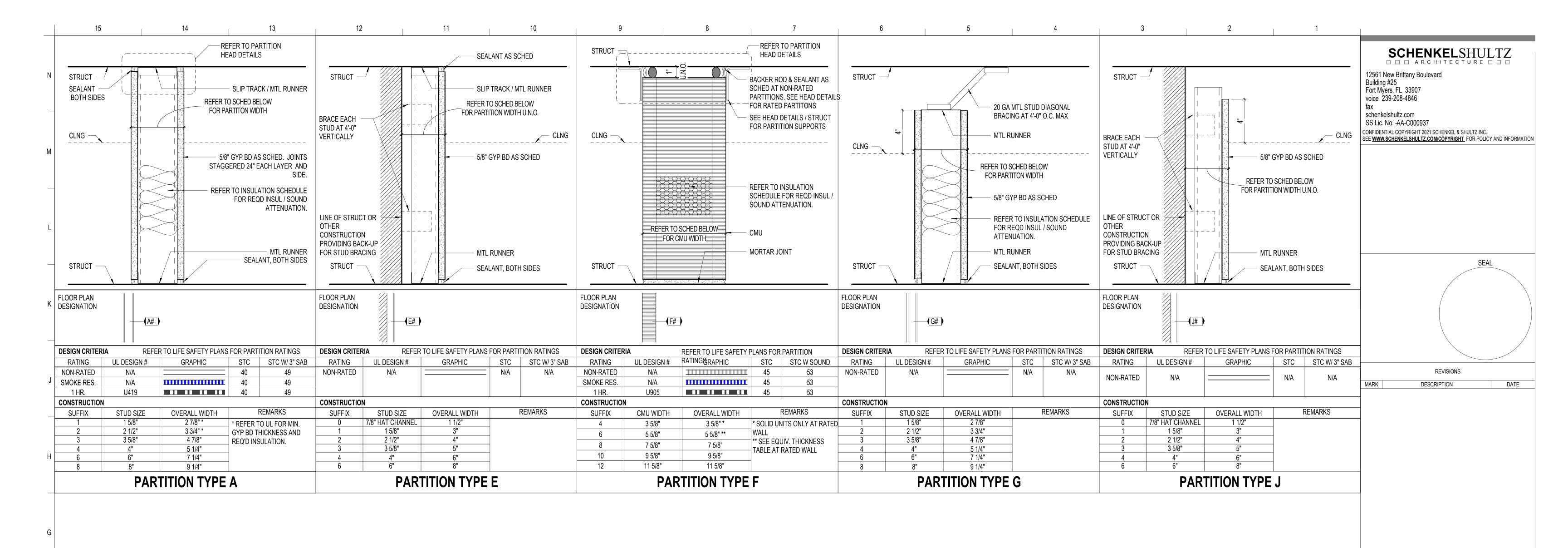
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CODE SUMMARY & CALCULATIONS

G100











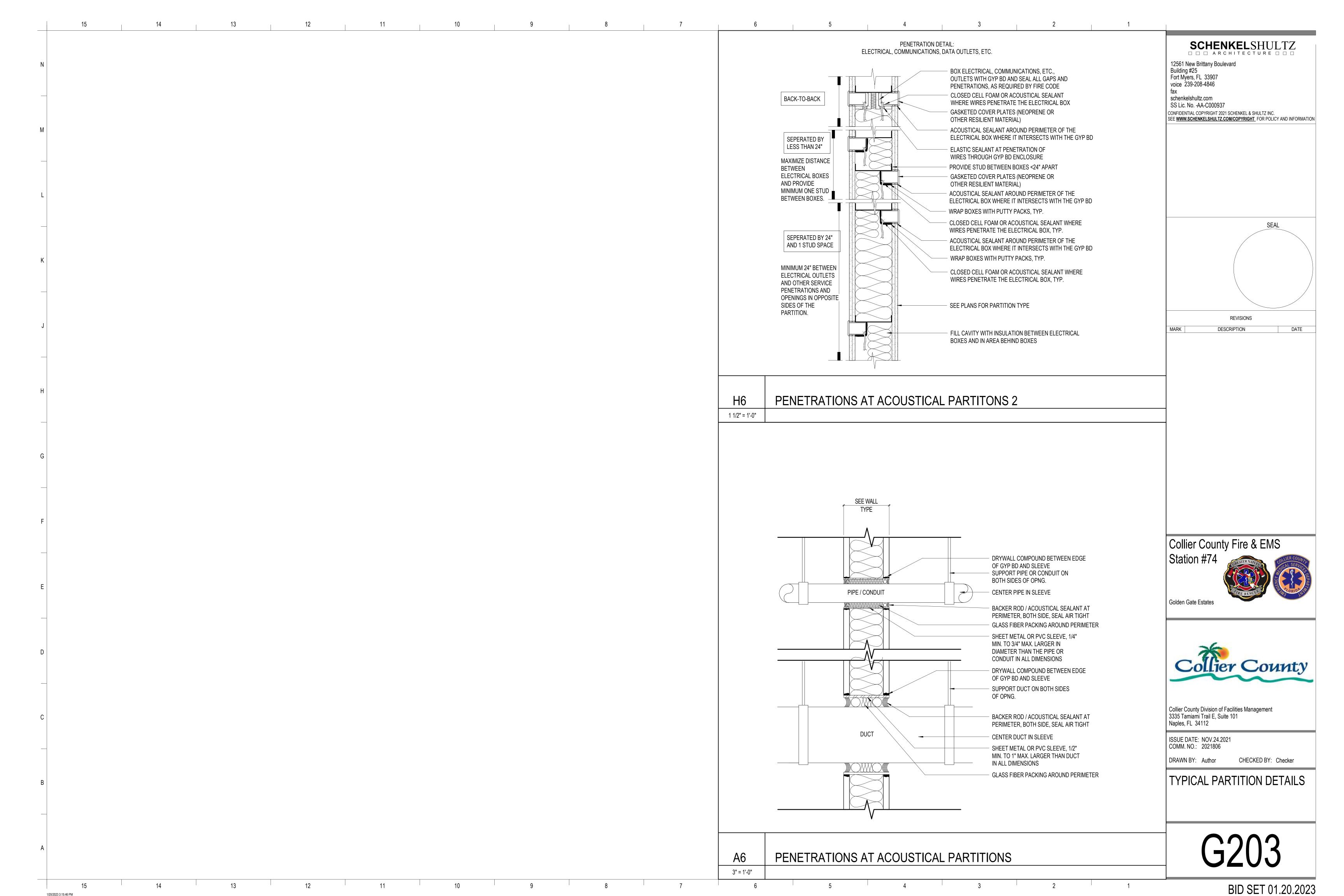
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ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

DRAWN BY: Author CHECKED BY: Checker

PARTITION TYPES

G202



1. Floor and Ceiling Runners — (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max

1A. Framing Members* - Floor and Ceiling Runners - Not shown - In lieu of Item 1 - For use with Item 2A, proprietary channel shaped, min. 3-5/8 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max. Effective thickness is 0.034 in.

CLARKDIETRICH BUILDING SYSTEMS — UltraSTEEL®.

1B. Framing Members* - Floor and Ceiling Runners — (Not shown - In lieu of Item 1) — For use with Item 2A, proprietary channel shaped, min. 2-1/2 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling fasteners 24 in. OC. max. Effective thickness is 0.034 in.

1D. Framing Members* - Floor and Ceiling Runner - Not shown - In lieu of Item 1 - For use with Item 2D. proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel,

1E. Framing Members*— Floor and Ceiling Runners — (Not shown) — In lieu of Item 1 - Channel shaped, attached to

1F. Floor and Ceiling Runners — (Not shown)—For use with Item 2B- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and

1G. Framing Members*— Floor and Ceiling Runners — (Not shown, As an alternate to Item 1) — For use with Items

1H. Framing Members* - Floor and Ceiling Runner - Not shown - In lieu of Item 1 - For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1I. Framing Members* - Floor and Ceiling Runner — For use with Item 2H, proprietary channel shaped runners,

1J. Floor and Ceiling Runners — (Not shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.02 in. galv

1K, Framing Members* - Floor and Ceiling Runners - (Not shown, As an alternate to Item 1) - For use with Items 2I, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under

2A. Framing Members* - Steel Studs - In lieu of Item 2 - Proprietary channel shaped studs, min. depth as indicated under Item 5, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Allowable use of studs is shown in the table below. For direct attachment of

n-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling

2C. Framing Members* - Steel Studs - (As an alternate to Item 2, For use with Items 5C or 5I) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a ½ in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board

2D. Framing Members* - Metal Studs - Not shown - In lieu of Item 2 - For use with Item 1D, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.020 in. thick

2E. Framing Members*— Steel Studs — In lieu of Item 2 - For Use with Item 1E- Channel shaped studs, min depth as

indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System

UNITED METAL PRODUCTS INC — Type SUPREME Framing System

2F. Framing Members*— Steel Studs — (Not shown, As an alternate to Item 2) —For use with Items 1G, 5F or 5G or 5I only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MRA BUILDING SUPPLIES - ProSTUD

SOUTHEASTERN STUD & COMPONENTS INC - ProSTUD

STEEL STRUCTURAL SYSTEMS L L C - Tri-S ProSTUD

2G. Framing Members* - Metal Studs - Not shown - In lieu of Item 2 - For use with Item 1H, proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

2H. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 - For use with Item 1I. Proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.

STUDCO BUILDING SYSTEMS — CROCSTUD

2I. Framing Members*- Steel Studs - (Not shown, As an alternate to Item 2) -For use with Items 1K, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C - TRUE-STUD $^{\text{TM}}$

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only.)- (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA tandard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on study, and staggered one stud space from wallboard joints. Attached to study with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in

4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or BZJZ) Categories for names

4A. Batts and Blankets* - (Optional) - Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL ication Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2D, 2E, 2G and 2H	Min Stud Depth, in. Item 2A	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	3-5/8	1 layer, 5/8 in. thick	Optional
1	2-1/2	3-5/8	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	3-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 1/2 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 5/8 in. thick	Optional
2	3-1/2	3-5/8	1 layer, 3/4 in. thick	3 in.
3	1-5/8	2-1/2	3 layers, 1/2 in. thick	Optional
3	1-5/8	2-1/2	2 layers, 3/4 in. thick	Optional
3	1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional

2 layers, 3/4 in. thick 2 in. CGC INC - 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX,

UNITED STATES GYPSUM CO - 1/2 in, thick Type C. IP-X2, IPC-AR or WRC: 5/8 in, thick Type SCX, SGX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V − 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC - Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V - Type SHX.

5B. Gypsum Board* — (Not Shown) - As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2B, (not to be used with Item 3) - Nom 5/8 in. or ¾ in. may be used as alternate to all 5/8 in. or ¾ in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or ¾ in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum poard secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in, OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. Gypsum Board* — (For Use With Item 2C) Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC - Type SCX.

UNITED STATES GYPSUM CO - Type SCX, SGX

USG MEXICO S A DE C V — Type SCX.

5D. **Gypsum Board*** – (As an alternate to Item 5) - 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured

UNITED STATES GYPSUM CO — Type USGX.

5E. Gypsum Board* — (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2B, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

SCHENKELSHULTZ

12561 New Brittany Boulevard Building #25 Fort Myers, FL 33907 voice 239-208-4846

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5F, Gypsum Board* - (As an alternate to Item 5) - For use with Items 1G and 2F and limited to 1 Hour Rating only,

Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over

5G. Gypsum Board* - (As an alternate to Item 5) - For use with Items 1G and 2F only, Gypsum panels with beyeled.

joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel

square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as

framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge

joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number

Gypsum Board Protection on Each Side of Wall

2 layers, 1/2 in, thick

2 layers, 5/8 in. thick

3 layers, 1/2 in. thick

3 layers, 5/8 in. thick

4 layers, 5/8 in. thick

4 layers, 1/2 in. thick

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR;, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO - 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C,

USG MEXICO S A DE C V - 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR,

5H. Gypsum Board* — (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall

tem 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs.

Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at

perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or

51. Gypsum Board* - (As an alternate to Item 5) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered

5J. Gypsum Board* — (Not Shown) - (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2B, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical

joints centered over study and staggered min 1 stud cavity on opposite sides of study. Wallboard secured to study with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached

to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over

the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f,

6. Fasteners - (Not shown) - For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long

for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges

and 12 in. OC in the field when panels are applied vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in.

thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for

1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth

layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in.

6A. Fasteners — (Not shown) —For use with Item 2A - Type S or S-12 steel screws used to attach panels to studs (Item 2A). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8-

1/2 in. OC with additional screws 1 in. and 2-1/2 in. from edges of the board when panels are horizontally. or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Two layer systems applied**

vertically: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC

with screws offset 8 in. from first layer. Two layer systems applied horizontally: First layer- 1 in. long for 1/2 and 5/8

in, thick panels or 1-1/4 in, long for 3/4 in, thick panels, spaced 16 in, OC starting 8 in, from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an

systems: First layer- 1 in, long for 1/2 in., 5/8 in, thick panels, spaced 24 in, OC. Second layer- 1-5/8 in, long for 1/2 in,

5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8

placed 1-1/4 in. from each edge of the board. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels,

spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long

for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in.

thick panels or 3 in, long for 5/8 in, thick panels, spaced 12 in, OC. Screws offset min 6 in, from layer below, For all layers,

7. Furring Channels — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated

7A. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems)

board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

a. Furring Channels — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum

b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2).

9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring

a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs.

described in Item 5. Two layers of gypsum board attached to furring channels as described in Item

b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs

drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into

(Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse

7C. Framing Members* — Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 7).

Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the steel stud with min. 1 in. long Type S-12 steel screws through the center hole

Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as

Clips spaced max. 48 in. OC. RSIC-1 clips secured to studs with No. 8 \times 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V clips secured to studs with No. 8 \times

from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each

in, thick panels, spaced 12 in, OC. Screws offset min 6 in, from layer below. For all layers, an additional screw shall be

additional screw placed 1-1/4 in. from each edge of the board with screws offset 8 in. from first layer. Three-layer

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

an additional screw shall be placed 1-1/4 in. from each edge of the board.

friction fitted into clips.

of the clip and the resilient channel flange.

KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

As an alternate to Item 7, furring channels and Steel Framing Members as described below

PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V.

channels and Steel Framing Members on only one side of studs as described below:

KINETICS NOISE CONTROL INC — Type Isomax

when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel study Item 2B, (not to be used with

No. of Layers

of Pane

Min Thkns of

Insulation (Item 4)

Optional

Optional

described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical

studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

UNITED STATES GYPSUM CO - 5/8 in, thick Type SCX, SGX,

of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

1-5/8

1-5/8

1-5/8

1-5/8

1-5/8

Min Stud

Depth, in. Item 2F

, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

CGC INC — Type ULX

UNITED STATES GYPSUM CO - Type ULX

USG MEXICO S A DE C V — Type ULX

Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long

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REVISIONS DATE DESCRIPTION

Collier County Fire & EMS

Golden Gate Estates



Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

CHECKED BY: CR

Design No. P523

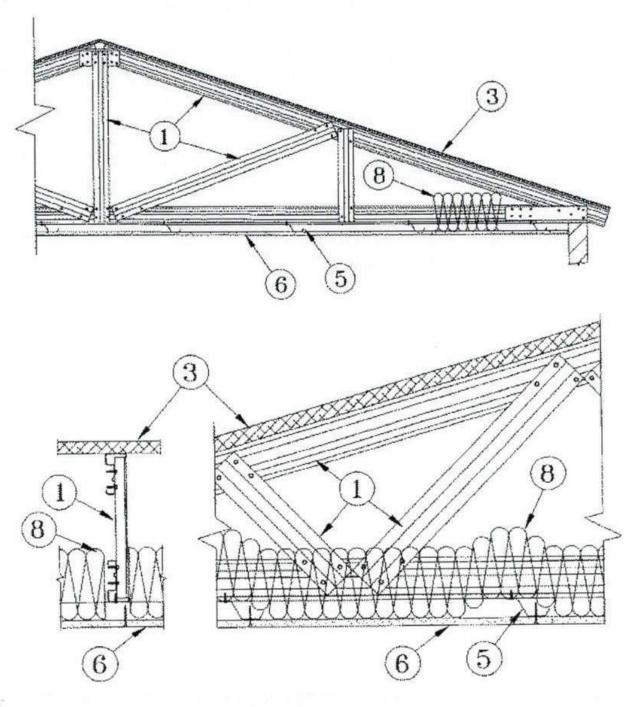
May 18, 2020

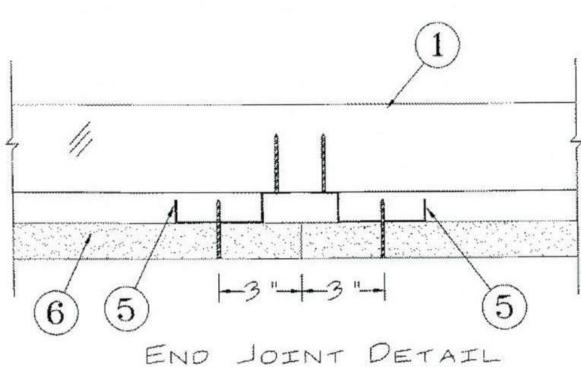
Restrained Assembly Rating — 1 and 1-1/2 Hr (See Items 6, 6A, 8, 8A and 8B)

Unrestrained Assembly Rating — 1 and 1-1/2 Hr (See Items 6, 6A, 8, 8A and 8B)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.





1. **Structural Steel Members*** — Pre-fabricated light-gauge steel truss system consisting of cold-formed, galvanized steel chord and web sections. Trusses fabricated in various sizes, depths and from various steel thicknesses. Trusses spaced a max of

48 in. OC.

AEGIS METAL FRAMING, DIV OF MITEK — Ultra-Span, Pre-fabricated Light Gauge Steel Truss System

Bridging — (Not Shown) — Location of lateral bracing for truss chord and web sections to be specified on truss
engineering.

3. Roof system* — Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) or Prepared Roof-covering Materials, Formed or Molded Metal, Fiber-Cement, Plastic or Fire-retardant-treated Wood (TFXX) acceptable for use over nom 23/32 in. thick wood structural panels, min grade "C-D" or "Sheathing". Nom 23/32 in. thick wood structural panels mechanically fastened to top chord of steel trusses with 1-1/4 in. long Type S or S-12 steel screws spaced a max of 12 in. OC. As an option, the wood structural panels may be installed to min 20 ga. steel purlins or steel hat channels. Steel purlins or hat channels to be spaced a max 24 in. OC and welded or mechanically fastened, transverse to steel roof trusses (Item 1).

3A. Steel Roof Deck — (Not Shown) — In lieu of, or in addition to the wood structural panels described in Item 3, the steel roof deck may consist of corrugated or fluted steel form units, minimum 9/16 in. deep, 22 MSG painted or galv steel, welded or mechanically fastened at a max. 12 in. OC to the top chord of the roof trusses (Item 1). When used in addition to the wood structural panels described in Item 3, Batts and Blankets (Item 8) is optional. When used lieu of the wood structural panels described in Item 3, Batts and Blankets (Item 8) must be used and the Class A, B or C Roofing System must include a min 3/4 in. thickness of roof insulation or 1/2 in. thickness of Classified or unclassified gypsum boards. If polystyrene roof insulation is used, it must be installed on top of a min 1/2 in. thickness of Classified or unclassified gypsum boards.

3B. **Structural Cement-Fiber Units*** — (Not Shown) — In lieu of the wood structural panels described in Item 3, steel roof deck and structural cement-fiber units may be installed. The steel roof deck is to consist of corrugated or fluted steel form units, minimum 9/16 in. deep, 22 MSG painted or galv steel, welded or mechanically fastened at a max. 12 in. OC to the top chord of the roof trusses (Item 1). Nominal 19 mm (3/4 in.) thick structural cement-fiber units installed over the steel roof deck and secured to trusses with fasteners spaced a max of 12 in. OC. Batts and Blankets (Item 8) must be used and the Class A, B or C Roofing System must include application over structural cement-fiber units. **CORNERSTONE INNOVATIVE SPECIALTIES, LLC** — Type Versaroc

3C. Structural Cement-Fiber Units* OR Building Units* — (Not Shown) — In lieu of the wood structural panels described in Item 3, steel roof deck and structural cement-fiber units or building units may be installed. The steel roof deck is to consist of corrugated or fluted steel form units, minimum 9/16 in. deep, 22 MSG painted or galv steel, welded or mechanically fastened at a max. 12 in. OC to the top chord of the roof trusses (Item 1). Nominal 19 mm (3/4 in.) thick structural cement-fiber units or building units installed over the steel roof deck and secured to trusses with fasteners spaced a max of 12 in. OC. Batts and Blankets (Item 8) must be used and the Class A, B or C Roofing System must include application over structural cement-fiber

ECTEK INTERNATIONAL INC — Armoroc Panel, Type MegaBoard.

4. **Vapor Barrier** — (Not Shown) — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick, applied over the wood structural panels.

5. **Resilient Channels** — Resilient channels formed of 25 MSG galv steel, installed perpendicular to the steel trusses (Item 1) when steel trusses are spaced a max 24 in. OC. Resilient channels spaced a max of 16 in. OC when no insulation (Items 8 or 8A) is fitted in the concealed space, or a max of 12 in. OC when insulation (Items 8 or 8A) is fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with Type S12 by 1/2 in. long screws.

5A. Furring Channels — (Not Shown) — As an alternate to Item 5 — Hat channels min 20 MSG galv steel, min 2-5/8 in. wide by min 7/8 in. deep, installed perpendicular to the trusses (Item 1) spaced a max of 16 in. OC. When no insulation (Items 8 or 8A) is fitted in the concealed space, or a max 12 in. OC when insulation (Items 8 or 8A) is fitted in the concealed space, draped over the hat channel/gypsum board ceiling membrane. Two courses of channel positioned 6 in. OC, 3 in. from each end of wallboard. Channel splices overlapped 6 in. beneath steel trusses. Channels secured to each truss with No. 18 SWG steel wire double strand saddle ties. Channels tied together with double strand of No. 18 SWG steel wire at each end overlap.

5B. **Resilient Channels** — (Not Shown) — As an alternate to Items 5 and 5A, resilient channels, double legged formed of 25 MSG galv steel, 2-7/8 in. wide by 1/2 in. deep, installed perpendicular to the trusses (Item 1) spaced max 16 in. OC when no insulation (Items 8 or 8A) is fitted in the concealed space, or a max of 12 in. OC when insulation (Items 8 or 8A) is fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with Type S12 by 1/2 in. long screws or with No. 18 SWG galv steel wire double strand saddle ties. Channels tied together with double strand of No. 18 SWG galv steel wire at each end of overlap.

5C. **Resilient Channels** — (Not Shown) — For use with Items 6A and 8B. As an alternate to Items 5 through 5B. Resilient channels formed of 25 MSG galv steel, installed perpendicular to the steel trusses (Item 1) when steel trusses are spaced a max 24 in. OC. Resilient channels spaced a max of 16 in. OC. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channels oriented opposite at wallboard butt-joints. Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with Type S12 by 1/2 in. long screws.

5D. Furring Channels — (Not Shown) — For use with Items 6A and 8B. As an alternate to Items 5 through 5C. Hat channels min 25 MSG galv steel, min 2-5/8 in. wide by min 7/8 in. deep, installed perpendicular to the trusses (Item 1), spaced a max of 16 in. OC. Two courses of furring channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with No. 18 SWG steel wire double strand saddle ties. Channels tied together with double strand of No. 18 SWG steel wire at each end overlap.

5E. **Resilient Channels** — (Not Shown) — For use with Items 6A and 8B. As an alternate to Items 5 through 5D. Resilient channels, double legged formed of 25 MSG galv steel, 2-7/8 in. wide by 1/2 in. deep, installed perpendicular to the trusses (Item 1) when steel trusses are spaced a max 24 in. OC. Resilient channels spaced a max of 16 in. OC. Two courses of resilient channel positioned 6 in. OC at wallboard butt-joints (3 in. from each end of wallboard). Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with Type S12 by 1/2 in. long screws or with No. 18 SWG galv steel wire double strand saddle ties. Channels tied together with double strand of No. 18 SWG galv steel wire at each end overlap.

b. Cross tees or channels — Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face, or cross channels, nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted wallboard end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. Wall angles or channels — Used to support steel framing member ends and for screw-attachment of the gypsum wallboard — Min 0.016 in. thick painted or galvanized steel angle with 1 in. legs or min. 0.016 in. thick painted or galvanized steel channel with a 1 by 1-1/2 by 1 in. profile, attached to walls at perimeter of ceiling with fasteners 16 in.

CGC INC — Type DGL or RX

USG INTERIORS LLC — Type DGL or RX

9A. **Alternate Steel Framing Members*** — (Not Shown) — As an alternate to Item 9 — Not for use with Items 8 or 8A — Main runners nom 12 ft long, spaced 72 in. OC. Main runners suspended by min 12 SWG galv steel hanger wires spaced 48 in. OC. Cross tees, nom 6 ft long, installed perpendicular to main runners and spaced 24 in. OC. Additional 6 ft long cross tees required at each gypsum board end joint with butted gypsum board end joints centered between cross tees spaced 8 in. OC. The main runners and cross tees may be riveted or screw attached to the wall angle or channel to facilitate the ceiling installation.

USG INTERIORS LLC — Type DGL or RX

10. Gypsum Board* — For use with Steel Framing Members (Item 9) when Batts and Blankets* (Item 8) are not used - One layer of nominal 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Wallboard fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span, and one screw located 1-1/2 in. from each wallboard side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At wallboard end joints, wallboard screws shall be located 1/2 in. from the joint. Wallboard fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent wallboard sheets shall be staggered not less than 32 in. Wallboard sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 7. For use with Steel Framing Members* (Item 9) when Batts and Blankets* (Item 8) are used - Ratings limited to 1 Hour- 5/8 in. thick, 4 ft wide; installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Fastened to cross tees with 1 in. long steel wallboard screws spaced 8 in. OC in the field and 8 in. OC along end joints. Fastened to main runners with 1 in. long wallboard screws spaced midway between cross tees. Screws along sides and ends of boards spaced 3/8 to 1/2 in. from board edge. End joints of the sheets shall be staggered with spacing between joints on adjacent boards not less than 4 ft OC. CGC INC — Type C, IP-X2, IPC-AR

 $\mathbf{UNITED\ STATES\ GYPSUM\ CO} - \mathsf{Type\ C}, \mathsf{IP-X2}, \mathsf{IPC-AR}$

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C, IP-X2, IPC-AR

11. **Gypsum Board*** — For use with Steel Framing Members (Item 9A) — One layer of nominal 5/8 in. thick by 48 in. wide boards, installed with long dimension (side joints) perpendicular to the 6 ft long cross tees with the end joints staggered min 4 ft and centered between cross tees which are spaced 8 in. OC. Gypsum board side joints may occur beneath or between main runners. Prior to installation of the gypsum board sheets, backer strips consisting of nom 7-3/4 in. wide pieces of gypsum board are to be laid atop the cross tee flanges and centered over each butted end joint location. The backer strips are to be secured to the flanges of the cross tees at opposite corners of the backer strip with hold down clips to prevent the backer

6. **Gypsum Board*** — For the 1 Hr. Ratings — One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. OC along butted end-joints and in the field when no insulation (Items 8 or 8A) is fitted in the concealed space or a max of 8 in. OC along butted end-joints and in the field when insulation (Items 8 or 8A) is fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. For the 1-1/2 Hr. Ratings - Two layers of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Base layer attached to the resilient channels using 1 in. long Type S bugle-head screws spaced a max of 8 in. OC along butted end-joints and in the field. Face layer attached to the resilient channels using 1-5/8 in. long Type S bugle-head screws spaced a max of 8 in. OC along butted end-joints and in the field. Screws staggered from base layer screws. Face layer side and end joints offset a min 16 in. from base layer side and end joints.

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

CGC INC - Types C, IP-X2, IPC-AR

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR

6A. **Gypsum Board*** — (Not Shown) — For use with Items 5C through 5E and 8B. Rating limited to 1 Hour. One layer of nom 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the furring channels using 1 in. long Type 5 bugle-head screws spaced 8 in. OC along butted end-joints and in the field.

UNITED STATES GYPSUM CO — Type ULIX

CGC INC — Type ULIX

7. **Finishing System** — (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

8. Cavity Insulation — Batts and Blankets* — Optional for the 1 Hr. Ratings — Any thickness mineral wool or glass fiber insulation bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread value of 25 or less and a smoke spread value of 50 or less. Insulation fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. Mandatory for the 1-1/2 Hr. Ratings-Min 9-1/2 in. thick glass fiber insulation bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread value of 25 or less and a smoke spread value of 50 or less. Insulation fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane.

8A. Cavity Insulation — Loose Fill Material* — (Not Shown) — As an alternate to Item 8 — Optional for the 1 Hr. Ratings — Any thickness of loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread value of 25 or less and a smoke spread value of 50 or less. Insulation fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane. Mandatory for the 1-1/2 Hr. Ratings - Min 9-1/2 in. thickness of loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread value of 25 or less and a smoke spread value of 50 or less. Insulation fitted in the concealed space, draped over the resilient channel/gypsum wallboard ceiling membrane.

8B. Cavity Insulation — Batts and Blankets* or Loose Fill Material* — (Not Shown) — (As described above in Items 8 and 8A) — For Use with Items 5C through 5E and 6A — Rating limited to 1 Hour — Min. 3-1/2 in thick with no limit on maximum thickness fitted in the concealed space, draped over the resilient and furring channel (Items 5C through 5E)/gypsum board (Item 6A) ceiling membrane.

9. Steel Framing Members — (Not Shown).

a. **Main Runners** — Installed perpendicular to Structural Steel Members — Nom 10 or 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of Structural Steel Members with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

strips from being uplifted during screw-attachment of the gypsum board sheets. Gypsum board fastened to cross tees with 1 in. drywall screws spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board. The butted end joints are to be secured to the backer strip with No. 10 by 1-1/2 in. long Type G laminating screws located 1 in. from each side of the butted end joint and spaced 1 in. and 4 in. from the side joints and max 8 in. OC in the field of the board.

CGC INC — Type C, IP-X2, IPC-AR

UNITED STATES GYPSUM CO — Type C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C, IP-X2, IPC-AR

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2020-05-18

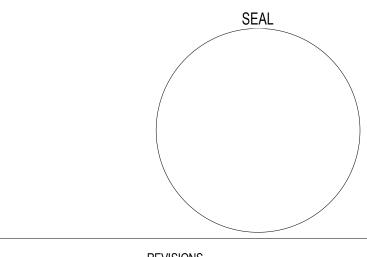
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12561 New Brittany Boulevard
Building #25
Fort Myers, FL 33907
voice 239-208-4846
fax
schenkelshultz.com

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REVISIONS

MARK DESCRIPTION DATE

Collier County Fire & EMS
Station #74

Golden Gate Estates



Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

DRAWN BV: Author

BY: Author CHECKED BY: Checker

UL ASSEMBLIES

G302

LEGAL DESCRIPTION

(PER OR 4843, PG 2757) ALL OF TRACT(S) NO 72, GOLDEN GATE ESTATES, UNIT NO:79, ACCORDING TO THE MAP OR PL THEREOF RECORDED IN PLAT BOOK 5, PAGE 17, OF THE PUBLIC RECORDS OF COLLIER COUN FLORIDA.

ONTAINING 5.46 ACRES, MORE OR LE

EMS 74 GOLDEN GATE ESTATES

SITE DEVELOPMENT PLANS

LOCATED IN SECTION 4, TOWNSHIP 49 SOUTH, RANGE 28 EAST COLLLIER COUNTY, FLORIDA

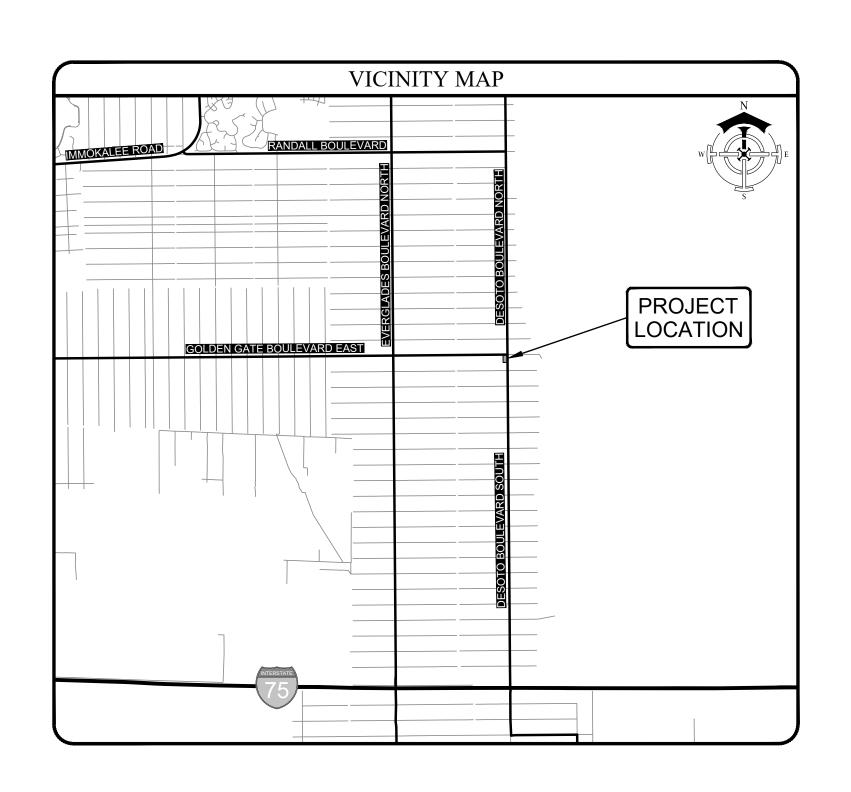
BUILDINGS	1
UNITS PER BUILDING	1
TOTAL UNITS	1
SITE ACREAGE	5.46 AC.
NUMBER OF STORIES	1
GROSS FLOOR AREA	14,082 SF (BUILDING ENVELOPE) 293 SF (LANAI) 222 SF (PORCH) 14,597 SF (TOTAL)
TYPE OF CONSTRUCTION	II-B
OCCUPANCY USE	MIXED USE, SEPARATED RESIDENTIAL (R-2) AND STORAGE (S-2)
FIRE SPRINKLERS	YES (WITH QUICK RESPONSE SPRINKLERS)
REQUIRED FIRE FLOW	625 GPM (2 HOURS)
AVAILABLE FIRE FLOW	625 GPM
NOTES:	

AVAILABLE FIRE FLOW BASED ON HYDRAULIC MODELING BASED ON

1		PROJECT INFORMATION
	ZONING	ESTATES WITH CONDITIONAL USE RESOLUTION NO. 21-20 (PL20190002680)
	PARCEL ID	40806320009
1	\	

	CONSULTANTS	
ENGINEER DELISI FITZGERALD, INC. 1605 HENDRY ST. FORT MYERS, FL 33901 (239) 418-0691	LANDSCAPE ARCHITECT DAVID M. JONES JR. & ASSOCIATES 2221 McGREGOR BLVD. FORT MYERS, FL 33901 (239) 337-5525	SURVEY Q. GRADY MINOR & ASSOCIATES 3800 VIA DEL REY BONITA SPRINGS, FL 34134 (239) 947-1144
TRAFFIC CONSULTANT TR TRANSPORTATION CONSULTANTS, INC. 2726 OAK RIDGE CT. #503 FORT MYERS, FL 33901 (239) 278-3090	PHOTOMETRICS TR TRANSPORTATION CONSULTANTS, INC. 2726 OAK RIDGE CT. #503 FORT MYERS, FL 33901 (239) 278-3090	ARCHITECT SCHENKELSHULTZ ARCHITECTURE 12561 NEW BRITTANY BLVD. FORT MYERS, FL 33907 (239) 208-4846

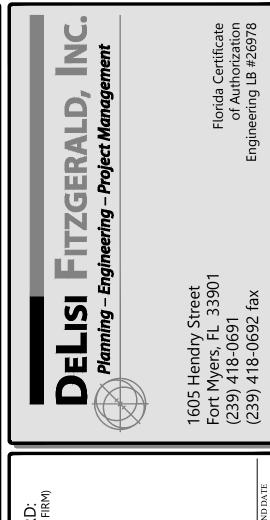
	UTILITY PROVIDERS	
WATER & SEWER	ELECTRIC	TELEPHONE
PRIVATE WELL & SEPTIC	FLORIDA POWER AND LIGHT 4105 15TH AVE. SW NAPLES, FL 34116 (239) 353-6065	
CABLE	SOLID WASTE DISPOSAL	FIRE DISTRICT
COMCAST CABLE 301 TOWER RD. NAPLES, FL 34113 (239) 732-3861	COLLIER COUNTY SOLID & HAZARDOUS WASTE MANAGEMENT 3339 TAMIAMI TRL. EAST, SUITE. 302 NAPLES, FL 34112 (239) 252-2508	GREATER NAPLES FIRE CONTROL AND RESCUE DISTRICT 4798 DAVIS BLVD. NAPLES, FL 34104 (239) 774-7111



	SHEET INDEX
NO.	DESCRIPTION
1	COVER SHEET, VICINITY MAP AND INDEX
2	AERIAL PHOTOGRAPH, EXISTING CONDITIONS, & CLEARING PLAN
3	MASTER SITE, SIGNING & MARKING PLAN
4	PAVING, GRADING & DRAINAGE PLAN
5	UTILITY PLAN
6	TYPICAL SECTIONS
7	PAVING DETAILS
8	DRAINAGE DETAILS
9	UTILITY DETAILS
10	EROSION CONTROL PLAN
	ATTACHMENTS
11	PRESERVE MANAGEMENT PLAN

		REVISIONS SUMMARY	
REV.	DATE	DESCRIPTION	REVISED SHEETS
$\overline{}$			





JOHN T. WOJDAK, P.E. (FOR THE FIRM)
FLORIDA P.E. NO. 58217
NOT VALID WITHOUT SEAL, SIGNATURE AND DATE

COLLIER COUNTY DIVISION OF FACILITIES MANAGEMENT
3335 TAMIAMI TRAIL E
NAPLES, FL 34112
(239) 252-8380
PROJECT:

EMS 74 GOLDEN GATE ESTATES

PLAN REVISIONS	DESCRIPTION				
	DATE				
	#				

COVER SHEET, VICINI MAP AND INDEX

Drawn By:

Checked By:

Project Number: 2

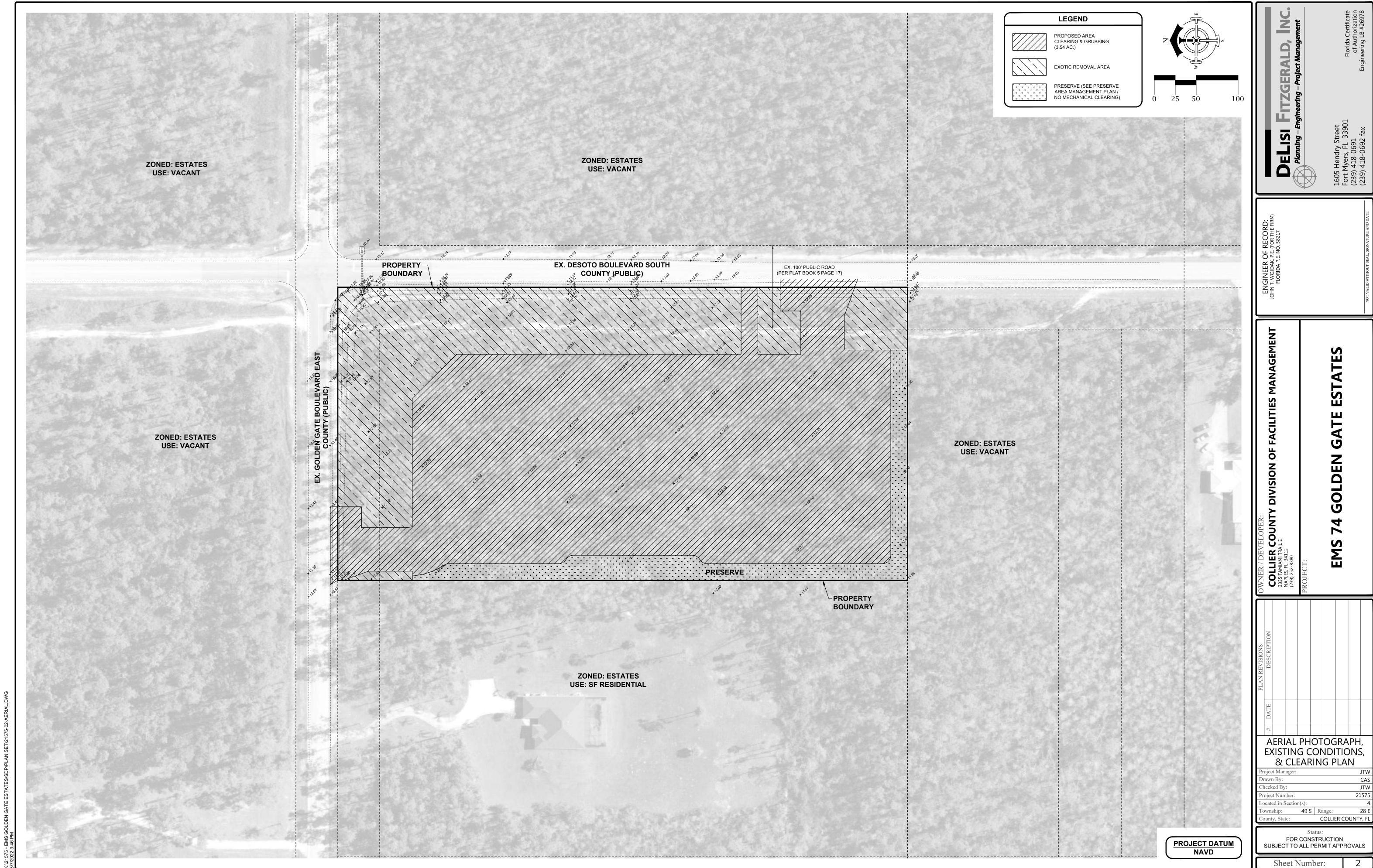
Located in Section(s):

Township: 49 S Range:

County, State: COLLIER COUNT

FOR CONSTRUCTION
SUBJECT TO ALL PERMIT APPROVALS

K:\21575 - EMS GOLDEN GATE ESTATES\SDP\PLAN SET\21575-01-COVER. 1/19/2023 9:18 AM



GENERAL DEVELOPMENT NOTES:

ANY CONSTRUCTION.

- ALL CONTRACTORS AND SUB-CONTRACTORS SHALL MAINTAIN THEIR WORK AND THE SITE RELATIVE TO THEIR WORK IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND ALL REQUIREMENTS OF THE PROJECT N.P.D.E.S.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DEWATER IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL PERMITTING REQUIREMENTS.
- ALL CONSTRUCTION TO BE IN ACCORDANCE WITH COLLIER COUNTY LDC.
- 4. THE CONTRACTOR SHALL RETAIN ON THE WORK SITE AT ALL TIMES COPIES OF ALL PERMITS NECESSARY FOR ANY CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES
- IN THE AREA 72 HOURS (MINIMUM) PRIOR TO COMMENCING CONSTRUCTION. THE LOCATION OF EXISTING UTILITIES, SIDEWALKS, PAVEMENT, VEGETATION AND MISCELLANEOUS IMPROVEMENTS ARE APPROXIMATE. THE EXACT FIELD LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO COMMENCING
- THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 IS THE BENCHMARK DATUM FOR THIS PROJECT. ANY PUBLIC LAND CORNER WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED. ANY LAND CORNER MONUMENT IN DANGER
- OF BEING DESTROYED MUST BE PROPERLY REFERENCED BY THE CONTRACTOR. 9. EXISTING IMPROVEMENTS SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO
- COMMENCING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.
- 10. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DEVIATION IN PLAN INFORMATION SHALL BE REPORTED TO THE ENGINEER AND OWNER'S REPRESENTATIVE IMMEDIATELY.
- I. CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
- 12. UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF ALL TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE OWNER. CONTRACTOR SHALL NO REMOVE OR DISTURB ANY TREES AND/OR SHRUBS WITHOUT PRIOR APPROVAL OF THE
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS. TRAFFIC CONTROL OPERATION PROCEDURES SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 14. THE APPROVAL OF THESE CONSTRUCTION PLANS DOES NOT AUTHORIZE CONSTRUCTION OF REQUIRED IMPROVEMENTS THAT ARE INCONSISTENT WITH EASEMENT OF RECORD. 15. ALL PROHIBITED EXOTIC VEGETATION SHALL BE REMOVED FROM THE SITE AND MAINTAINED FREE OF EXOTICS IN PERPETUITY.
- 16. LIGHT POLE HEIGHT SHALL NOT EXCEED 15 FT PER CU RESOLUTION 21-20. LIGHT POLES MUST BE 12.5 FT MINIMUM FROM ANY
- 17. COUNTY ROW PERMIT IS REQUIRED FOR ANY CONSTRUCTION/ MAINTENANCE WORK PROPOSED WITHIN ANY COUNTY PUBLIC ROADWAY RIGHT OF WAY.
- 18. OPERATION AND MAINTENANCE OF THE INFRASTRUCTURE WITHIN THE COUNTY RIGHT OF WAY SHALL BE THE RESPONSIBILITY OF COLLIER COUNTY. OPERATION AND MAINTENANCE OF THE ON-SITE INFRASTRUCTURE SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
- 19. TEMPORARY SIGNS IDENTIFYING THE PRESERVE SHALL BE PLACED AROUND THE PERIMETER DURING CONSTRUCTION.

SIGNING AND MARKING NOTES:

- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND PUBLISHED STANDARDS.
- ALL PAVEMENT MARKINGS WITHIN RIGHT-OF-WAYS SHALL BE IN ACCORDANCE WITH THE F.D.O.T. STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, THE F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND PUBLISHED STANDARDS.
- ALL STOP SIGN LOCATIONS SHALL INCLUDE A 24" PAINTED WHITE STOP BAR UNLESS NOTED OTHERWISE.
- ALL SIGNING, PAVEMENT MARKINGS, STREET NAME SIGNS, ETC. ARE TO BE INCLUDED IN THE LUMP SUM PRICE FOR SIGNING AND MARKING. THE CONTRACTOR SHALL COMPLY WITH THE "STATE OF FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS" AND WITH THE MANUAL ON UNIFORM TRAFFIC
- 6. ALL SIGNS AND FLAGPOLES WILL BE PERMITTED AND APPROVED SEPARATELY.

SOLID WASTE DISPOSAL REGULATIONS:

- A SCREEN ENCLOSURE WILL BE PROVIDED
- PER LDC 5.03.09.D. A SINGLE ENCLOSURE FOR SOLID WASTE & RECYCLING WILL BE UTILIZED.
- MIN. DIMENSIONS = 12'x24' INTERIOR W/ 12' MIN. CLEAR
- PROVISIONS FOR ACCESS BY WASTE HAULER ARE
- REQUIRED. MINIMUM CLEAR GATE OPENING OF 12' SHALL BE PROVIDED.

BUILDING DESIGN STANDARDS						
DESIGN STANDARD	REQUIRED	PROVIDED				
FRONT YARD SETBACK (GOLDEN GATE BLVD.)	75'	82.3'				
FRONT YARD SETBACK (DESOTO BLVD.)	75'	77'				
SIDE YARD SETBACK (SOUTH)	205'	306.3'				
SIDE YARD SETBACK (WEST)	75'	110.8'				
PRESERVE SETBACK	25'	80.8'				
PRESERVE SETBACK (ACCESSORY)	10'	N/A				
MAX. BUILDING HEIGHT - ACTUAL (PRINCIPAL)	40'	36'				
MAX. BUILDING HEIGHT - ZONED (PRINCIPAL)	35'	26'				
MAX. BUILDING HEIGHT - ACTUAL (ACCESSORY)	30'	N/A				
MAX. BUILDING HEIGHT - ZONED (ACCESSORY)	25'	N/A				
PER RESOLUTION 21-20						

PARKING SUMMARY						
<u>USE</u>	<u>RATIO</u>	REQUIRED	PROVIDED			
PUBLIC BUILDINGS	1 PER 200 SF FOR ADMINISTRATIVE OFFICE (0 SF) AND 2 PER EMPLOYEE OF THE LARGEST SHIFT	26 (2)	28 (2)			
	1 SPACE FOR AGGREGATE GROSS					
OADING	FLOOR AREA OF OVER 5,000 SF BUT NOT OVER 25,000 SF	1	1			
BICYCLE	5% OF REQUIRED PARKING SPACES (MIN. 2)	2	2			
NOTES: 1. "(#)" REPRESENTS THE NUMBER OF HANDICAP SPACES INCLUDED IN						

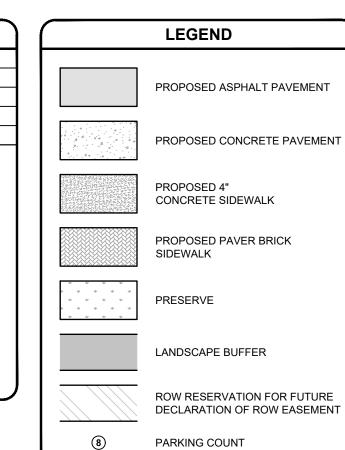
٠.	THE TOTAL SPACES.
2.	PARKING REQUIREMENTS FOR PUBLIC BUILDINGS (FIRE, EMS OR SHERIFF STATION AND JAIL) PER LDC 4.05.04.G, TABLE 17.
3	LOADING SPACE REQUIREMENTS FOR HOSPITALS, SANITARILIMS

WELFARE INSTITUTIONS, OR SIMILAR USES PER LDC 4.05.06.B.2.

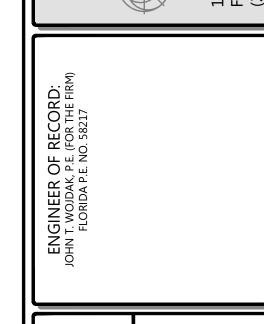
		LANDSCA	PE BUFFER REQU	IREMENTS
<u>DED</u>		LOCATION	BUFFER TYPE	<u>WIDTH</u>
.		NORTH	D	15'
		EAST	D	15'
3'		SOUTH	В	15' (SEE NOTE 2)
8'		WEST	В	15' (SEE NOTE 2)
3'	NC	TES:		
	1.	REFERENCE LANDSO BUFFER REQUIREME	CAPE PLANS FOR DETAILE ENTS.	D LANDSCAPE
	2.		EUSED TO SATISFY THE LATER EXOTIC VEGETATION I	

2.	PRESERVES MAY BE USED TO SATISFY THE LANDSCAPE BUFFER REQUIREMENTS AFTER EXOTIC VEGETATION REMOVAL IN ACCORDANCE WITH LDC SECTIONS 4.06.02 AND 4.06.05.E.1 SUPPLEMENTAL PLANTINGS WITH NATIVE PLANT MATERIALS SHALL BE IN ACCORDANCE WITH LDC SECTION 3.05.07. IN ORDER TO MEET THE LDC REQUIREMENTS FOR A TYPE B BUFFER ALONG THE WESTERN AND SOUTHERN BOUNDARIES OF THE PROJECT, A 6-FOOT WIDE LANDSCAPE BUFFER RESERVATION HAS BEEN IDENTIFIED ON THE CONCEPTUAL SITE PLAN. IN THE EVENT THAT THE PRESERVE DOES NOT MEET BUFFER REQUIREMENTS AFTER REMOVAL OF EXOTICS AND SUPPLEMENTAL PLANTING WITHIN THE PRESERVE, PLANTINGS WILL BE PROVIDED IN THE 6-FOOT WIDE RESERVATION TO MEET THE BUFFER REQUIREMENTS. THE TYPE, SIZE, AND NUMBER OF SUCH PLANTINGS, IF NECESSARY, WILL BE DETERMINED AT TIME OF INITIAL SDP OR PLAT AND INCLUDED ON THE LANDSCAPE PLANS FOR THE SDP OR PLAT.

LAND USE SUMMARY					
CATEGORY	<u>AREA</u>	PERCENTAGE			
BUILDING	0.34 AC.	9.3%			
PAVEMENT / SIDEWALK	1.04 AC.	28.5%			
DRY DETENTION (BOTTOM)	0.67 AC.	18.4%			
OPEN SPACE	1.18 AC.	32.3%			
PRESERVE*	0.42 AC.	11.5%			
DEVELOPMENT AREA	3.65 AC.	100%			
PUBLIC ROAD PER PLAT BOOK 5 PAGE 17	1.12 AC.				
ROW RESERVATION	0.69 AC.				
TOTAL PROPERTY AREA	5.46 AC.				
*PER LDC 3.05.07 B-D, REQUIRED PRESERVATION = 10% OF 3.46 AC = 0.36 AC.					

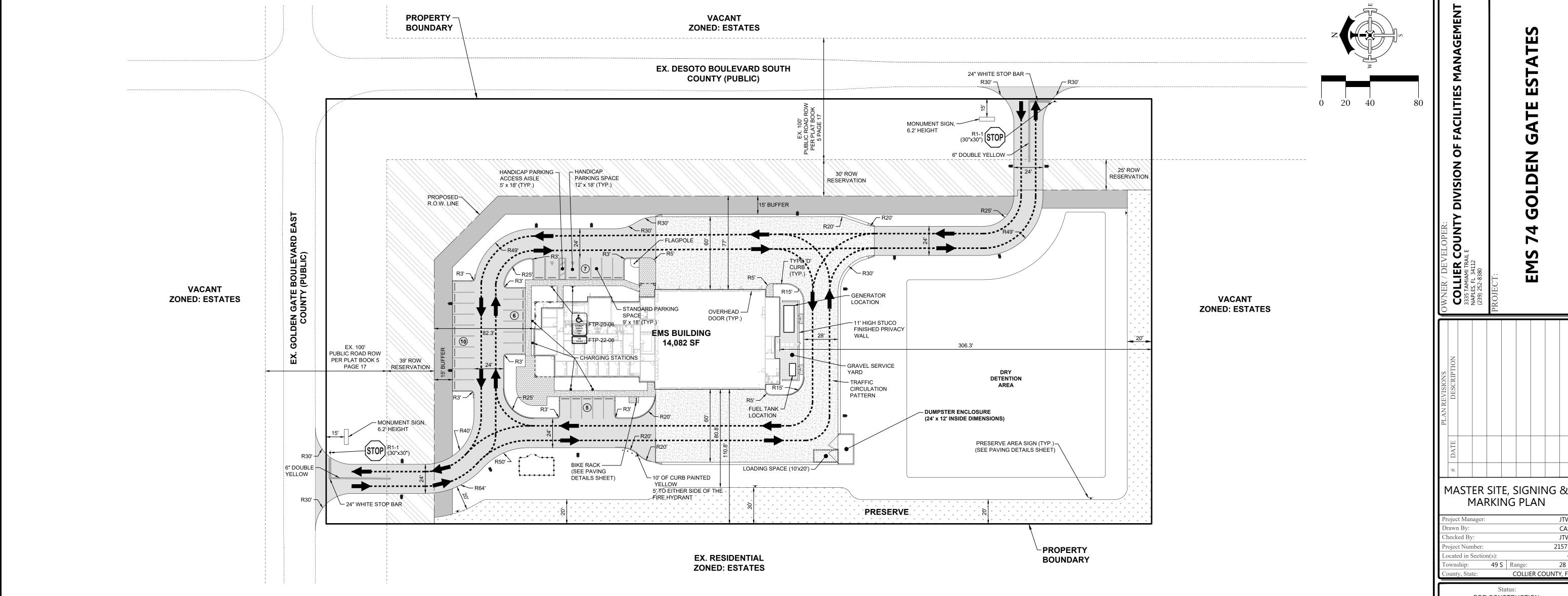


LIGHT POLE



Z

GERALD, a-Project Manage

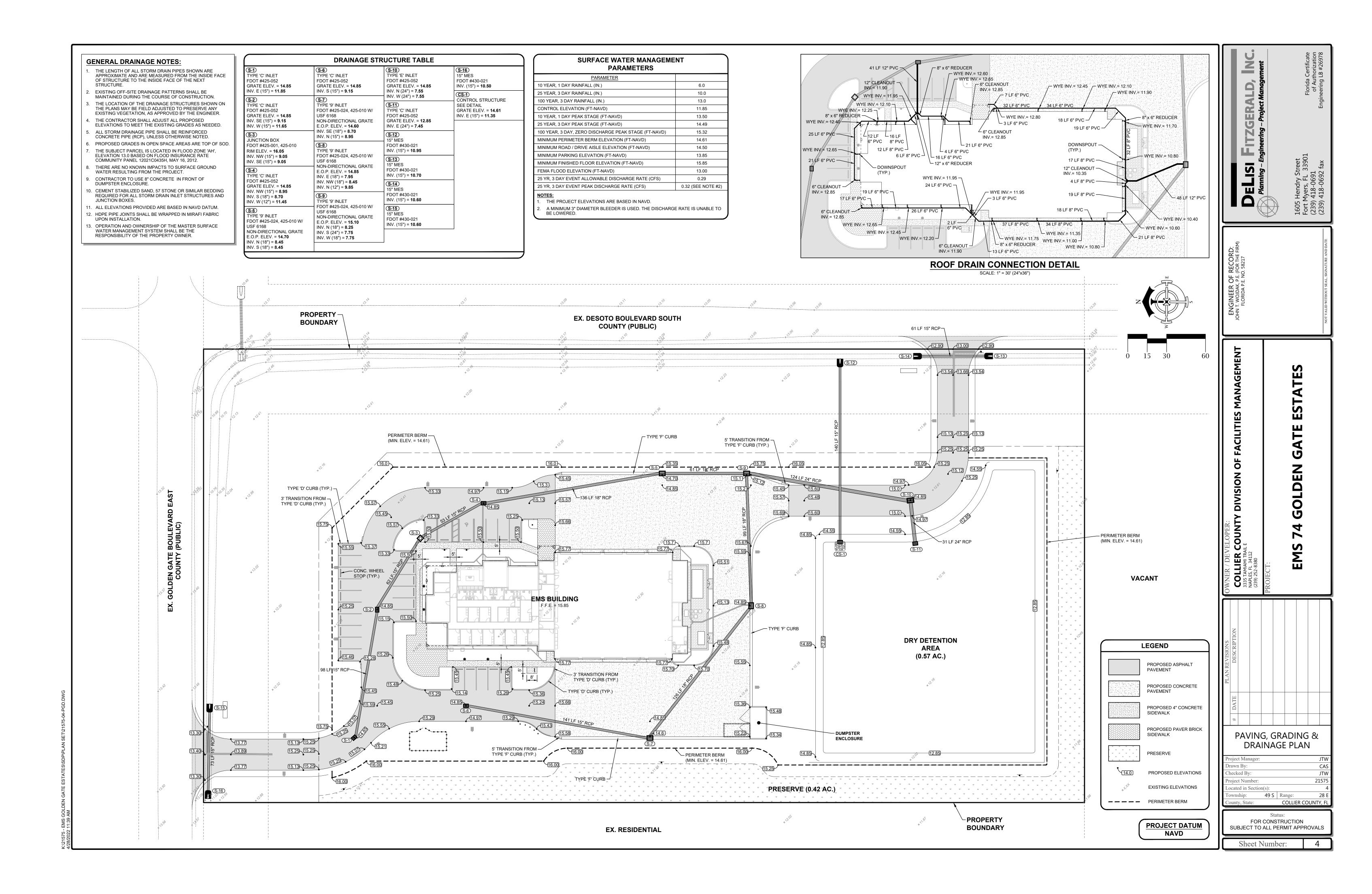


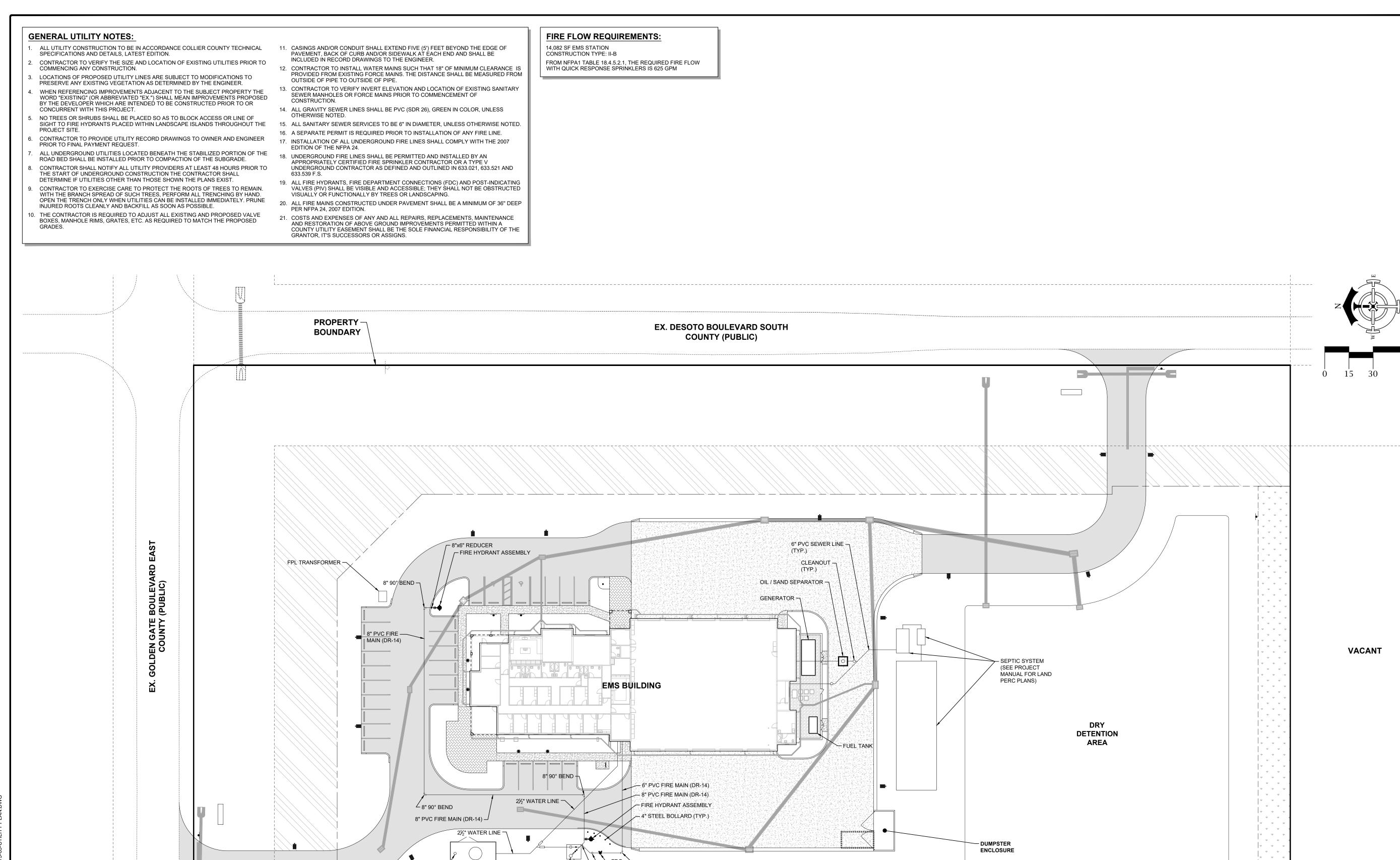
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MARKING PLAN

FOR CONSTRUCTION SUBJECT TO ALL PERMIT APPROVALS

Sheet Number:





EX. RESIDENTIAL

POTABLE WELL — (SEE DRMP PLANS)

2" BACKFLOW -

y 2" IRRIGATION →

CONNECTION✓

PREVENTOR

└ WATER SYSTEM W/

FENCING & GATE

(SEE DRMP PLANS)

FIRE WELL W/ ——

SUBMERSIBLE PUMP

(SEE DRMP PLANS)

(SEE DRMP PLANS)

Checked By: Project Number: Located in Section(s): Γownship: 49 S Range:

-PROPERTY **BOUNDARY**

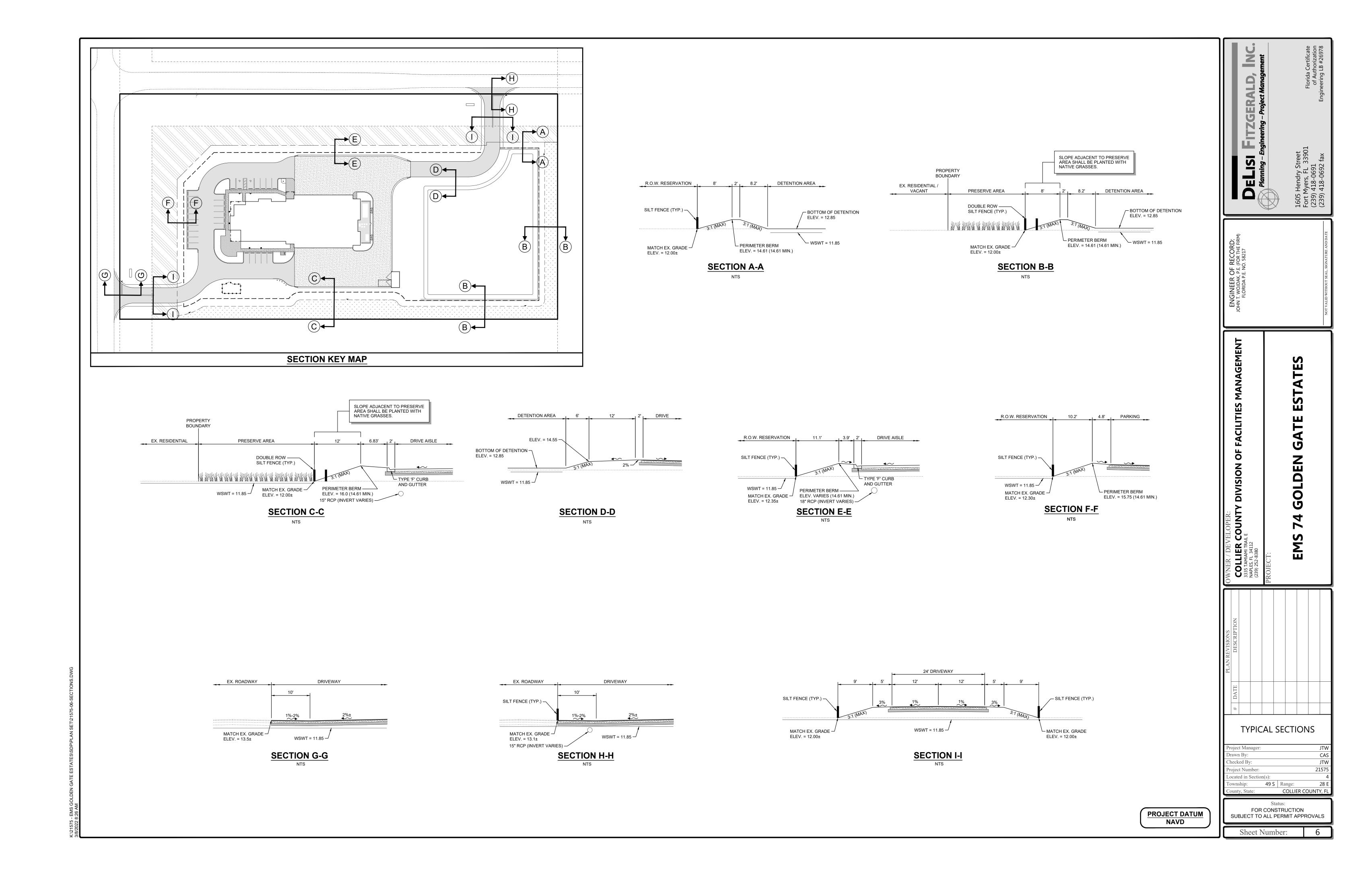
COLLIER COUNTY, F FOR CONSTRUCTION

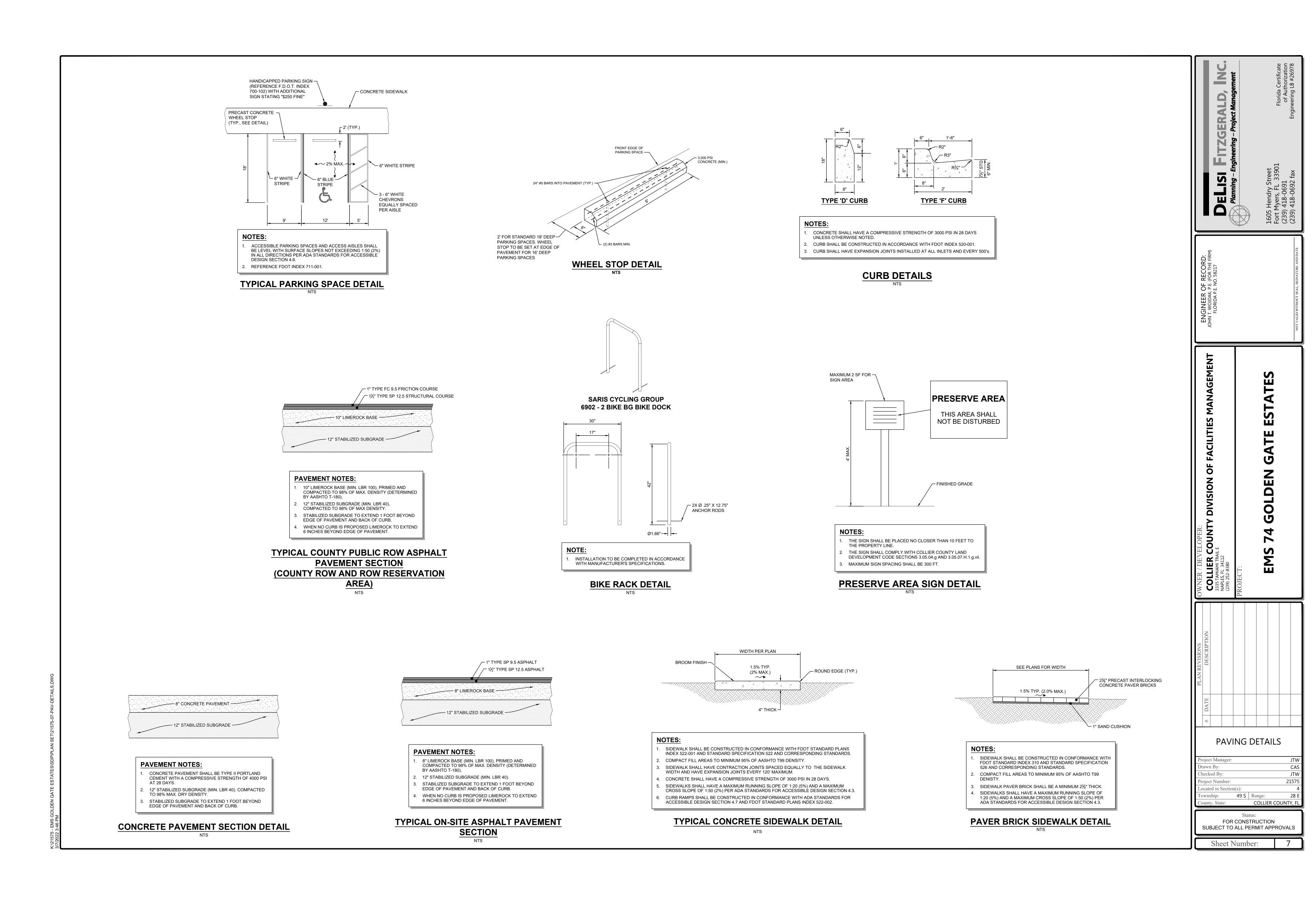
INC

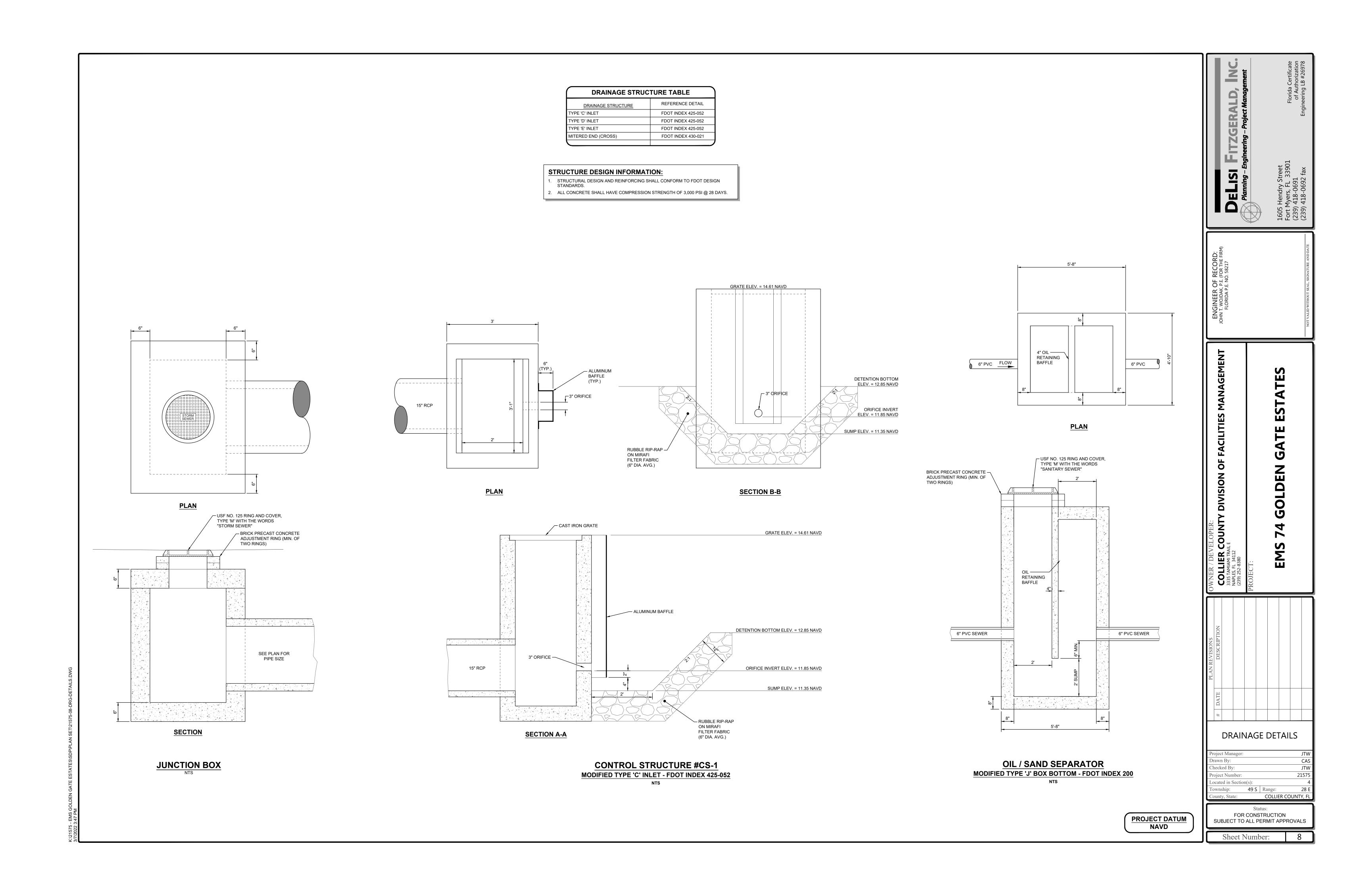
SUBJECT TO ALL PERMIT APPROVALS Sheet Number:

UTILITY PLAN

21575

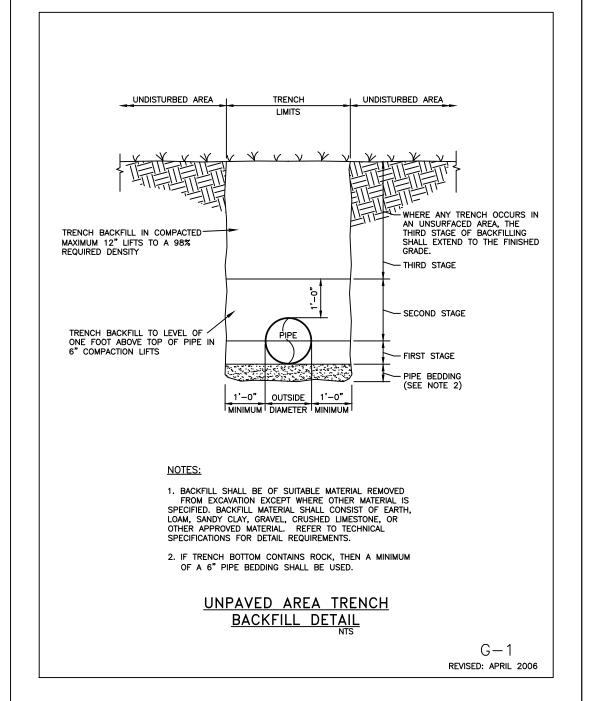


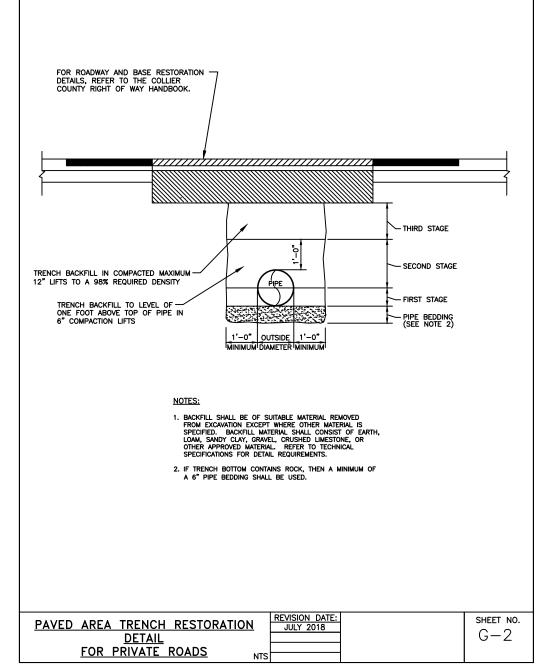


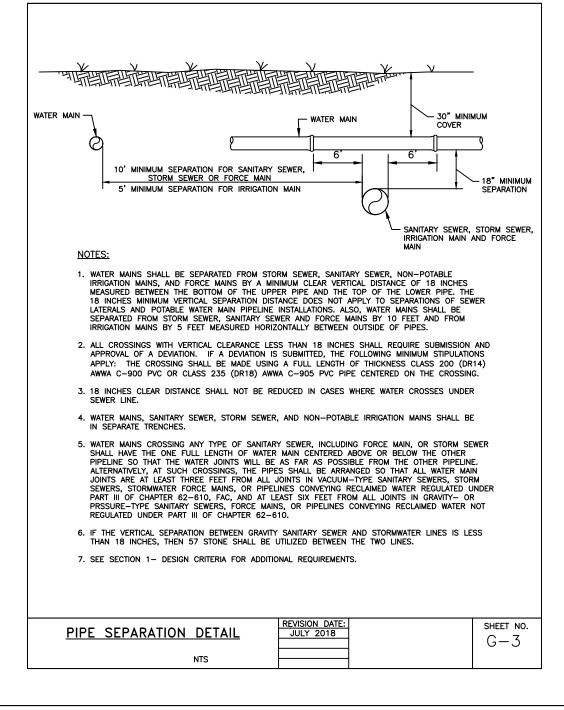


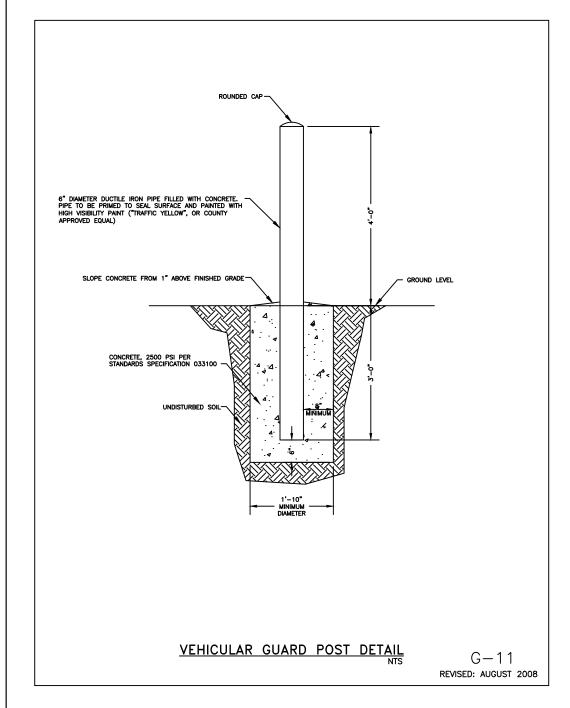
NOTE:

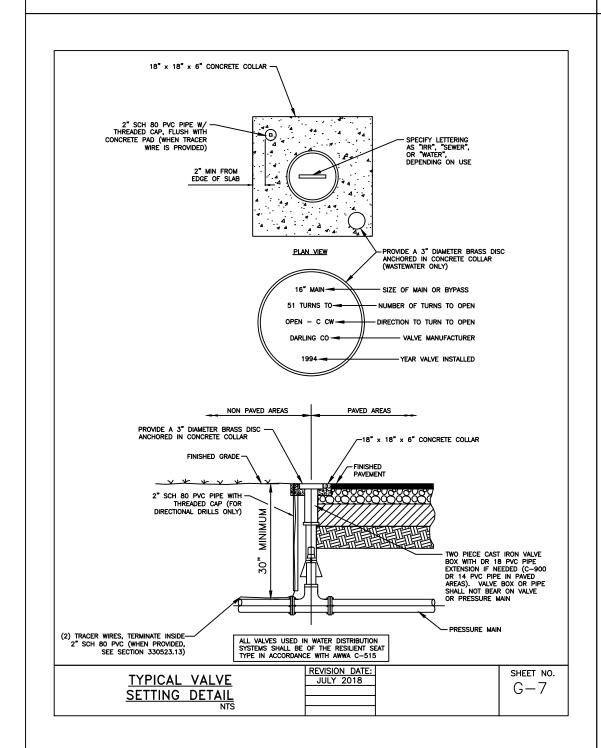
DETAIL TO BE UTILIZED FOR PROPOSED PIPE BEING INSTALLED UNDER NEW PAVEMENT.

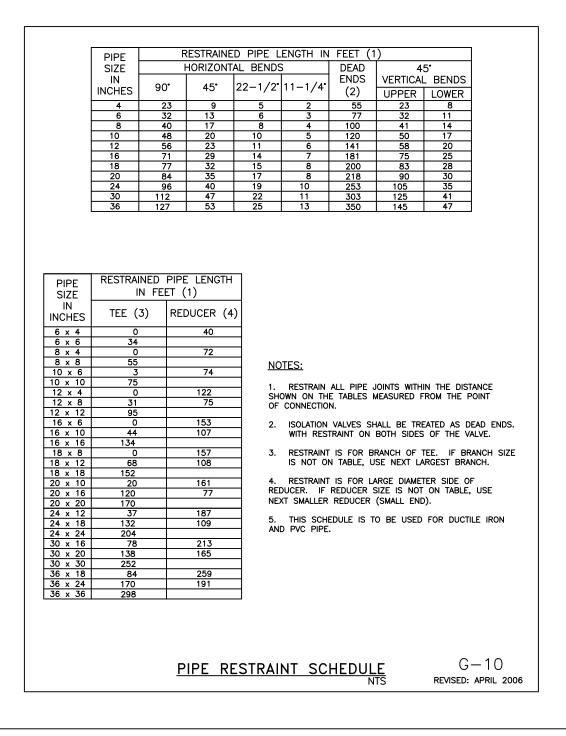


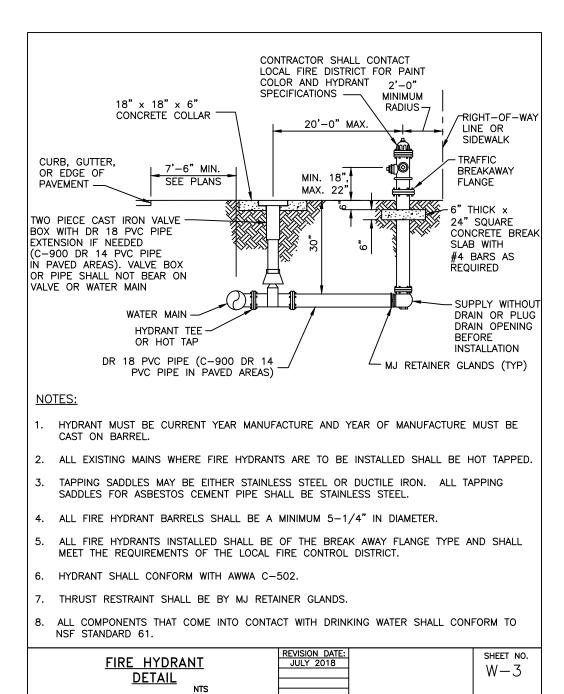


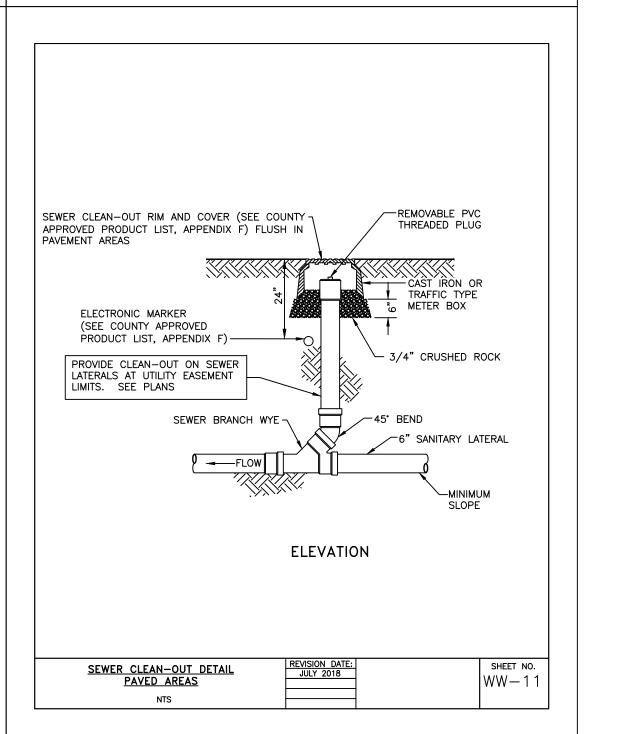


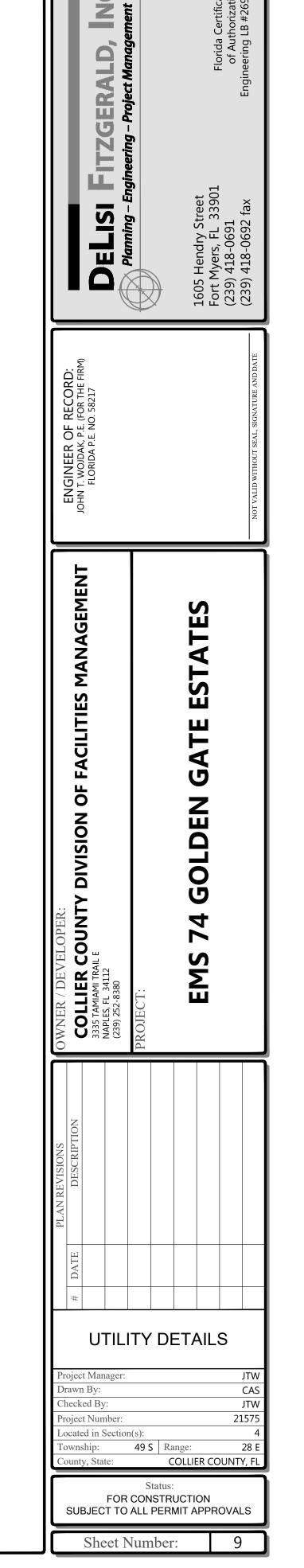




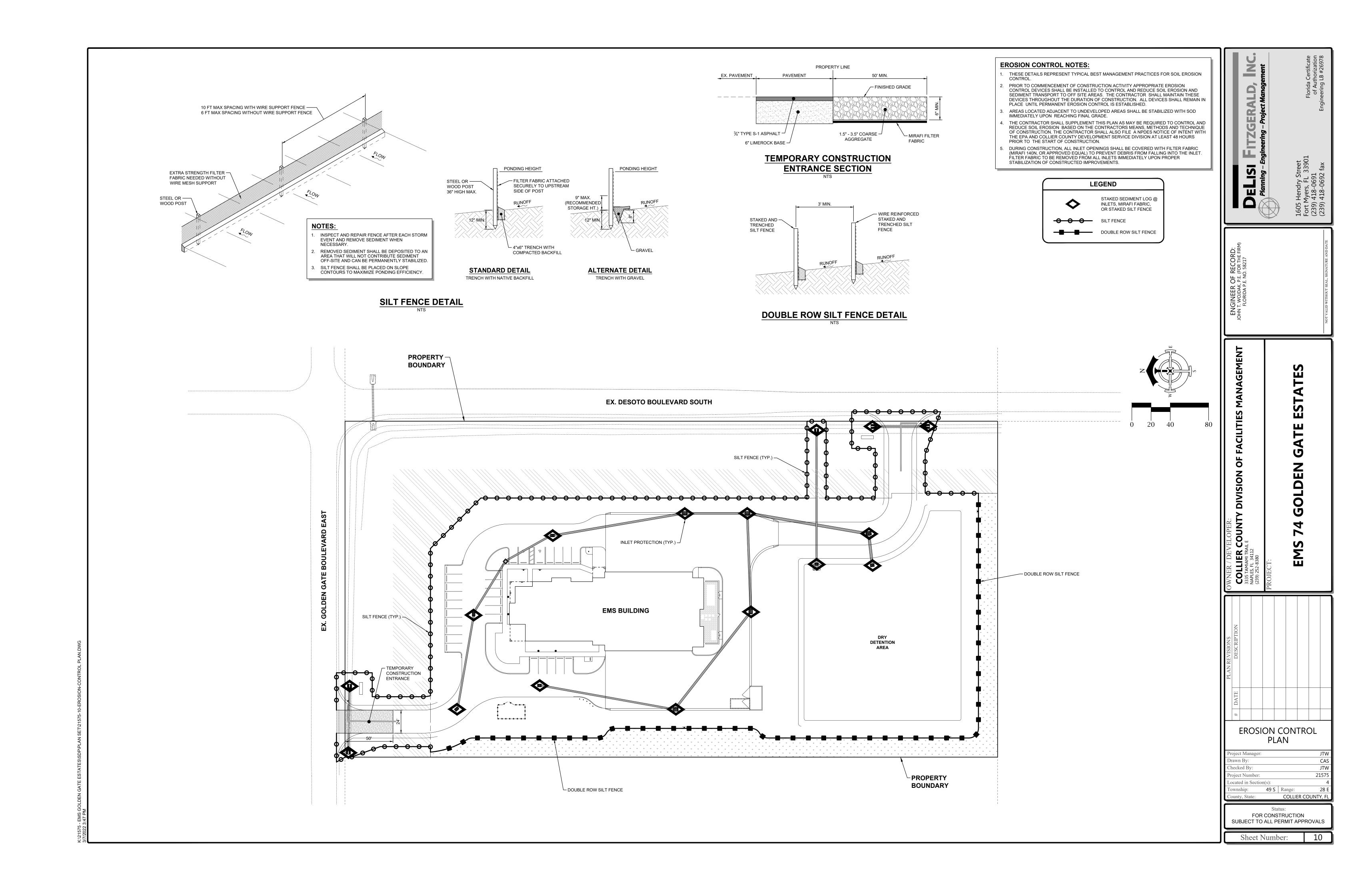








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INTRODUCTION
THE 3.64± ACRE COLLIER EMS - GOLDEN GATE PROPERTY IS LOCATED IN SECTION 9, TOWNSHIP 49S, AND RANGE 28E, OF COLLIER COUNTY, FLORIDA. MORE SPECIFICALLY. THE SITE IS LOCATED EAST OF THE INTERSTATE: AT THE SOUTHWEST CORNER OF THE INTERSECTION OF DESOTO BOULEVARD AND GOLDEN GATE BOULEVARD, IN GOLDEN GATE ESTATES (NAPLES), FLORIDA. PLEASE SEE THE ATTACHED PROJECT LOCATION MAP (EXHIBIT A). ACCORDING TO THE COLLIER COUNTY, LAND DEVELOPMENT CODE (CDC), SECTION 3.05.07 H.1.E,

THE PRESERVATION OF NATIVE VEGETATION SHALL INCLUDE ALL NATURALLY OCCURRING STRATA INCLUDING CANOPY, UNDERSTORY AND GROUND COVER EMPHASIZING THE LARGEST CONTIGUOUS AREA POSSIBLE, EXCEPT AS OTHERWISE PROVIDED. UNDER THIS SECTION OF THE CDC, THE TERM NATIVE VEGETATION IS FURTHER DEFINED AS A VEGETATIVE COMMUNITY HAVING 25 PERCENT OR MORE CANOPY COVERAGE OR HIGHEST EXISTING VEGETATIVE STRATA OF NATIVE PLANT SPECIES. IN THE ABSENCE OF OTHER NATIVE STRATA, HERBACEOUS VEGETATION NOT TYPICALLY ASSOCIATED WITH THE RE-GROWTH OF NATIVE VEGETATIVE COMMUNITIES. COMMONLY KNOWN AS WEEDS, SHALL NOT BE CONSIDERED NATIVE VEGETATION FOR THE PURPOSE OF PRESERVATION.

THE PROPERTY IS PARTIALLY DEVELOPED; THE EXISTING PRESERVE VEGETATION IS COMPRISED PRIMARILY OF NATIVE PINE FLATWOODS, LOCATED ALONG THE PERIMETER OF THE PROPERTY BOUNDARY. THESE PRESERVE AREAS WILL BE INCORPORATED INTO THE PROJECT AS AN INDIGENOUS PRESERVE AREA; THE PRESERVE AREA ENCOMPASSES 0.41± ACRES INDIGENOUS HABITAT. THE GOAL OF THIS MANAGEMENT PLAN IS TO IMPROVE THE CONDITION OF THE INDIGENOUS AREAS AND PROVIDE A NATURAL PRESERVE AREA FOR THE FLORA AND FAUNA ON THE PROPERTY. THESE ON-SITE PRESERVE AREAS PROVIDE HABITAT FOR NESTING AND CREATE FORAGING AREAS FOR ALL KINDS OF WILDLIFE SPECIES. PLEASE SEE THE OVERALL SITE PLAN SHOWING THE INDIGENOUS PRESERVE AREA MAP ATTACHED AS EXHIBIT B.

PRESERVE ESTABLISHMENT AND MAINTENANCE SCHEDULE
CONTROL OF EXOTICS SHALL BE IMPLEMENTED ON A YEARLY BASIS OR MORE FREQUENTLY

WHEN REQUIRED, AND SHALL DESCRIBE SPECIFIC TECHNIQUES TO PREVENT REINVASION BY PROHIBITED EXOTIC VEGETATION OF THE SITE IN PERPETUITY. NON-NATIVE VEGETATION AND NUISANCE OR INVASIVE PLANTS SHALL BE REMOVED FROM THE PRESERVE AREA. ALL EXISTING NATIVE TREES LOCATED WITHIN THE PRESERVE AREA WILL BE PRESERVED AND SHALL NOT BE IMPACTED DURING ANY OF THE EXOTIC ERADICATION EFFORTS. SHOULD ANY NATIVE TREES DIE AS A RESULT OF THE SURROUNDING EXOTIC TREATMENT, THEY WILL BE REPLACED WITH A SIMILAR TREE IN LIKE SIZE. FOLLOWING THE INITIAL REMOVAL OF EXOTICS. THE ESTABLISHMENT OF THE PRESERVE MAINTENANCE WILL OCCUR ANNUALLY; ALL INDIGENOUS VEGETATION WILL BE REQUIRED TO BE MAINTAINED IN PERPETUITY.

SUPPLEMENTAL PLANTINGS
THERE ARE NO SUPPLEMENTAL PLANTINGS PROPOSED AT THIS TIME. THE PROPOSED MITIGATION

AREAS WILL BE ENHANCED THROUGH THE REMOVAL OF EXOTIC SPECIES, MONITORED, AND MAINTAINED ON A REGULAR SCHEDULE FOR FIVE YEARS. AFTER THIS TIME, PERPETUAL MANAGEMENT WILL INCLUDE CONTINUED REMOVAL OF EXOTIC SPECIES. THERE ARE NOT ANY AREAS ON-SITE WHICH CONTAINS DENSE EXOTIC VEGETATION; THEREFORE, THERE SHOULD NOT BE ANY AREAS DEVOID OF VEGETATION FOLLOWING INITIAL EXOTIC REMOVAL. IF AT THE END OF TWO (2) YEARS, THERE ARE ANY AREAS DO NOT RECRUIT NATURALLY, A PLANTING PLAN WILL BE ESTABLISHED FOR THESE AREAS, WHICH WILL INCLUDE PROPOSED SIZE, SPACING, AND SPECIES TO SUPPLEMENT THESE AREAS (LDC3.05.07 H.1.G.).

VEGETATION TRIMMING & CONTROL OF VINES
THE TRIMMING OF VEGETATION IN THE PRESERVE AREA IS PROHIBITED EXCEPT DEAD LIMBS, DEAD SAW PALMETTO FRONDS, AND DEAD PALM FRONDS THAT ARE LOCATED WITHIN 20 FEET OF A PROPERTY LINE MAY BE REMOVED. THE CONTROL OF VINES IS ALLOWED IN THE PRESERVE AREAS. THIS MANAGEMENT ACTIVITY INCLUDES BOTH EXOTIC AND NATIVE VINE SPECIES. IN THE WETLAND AREA PORTION OF THE PRESERVE AREAS THE STEMS OF THE VINES MUST BE CUT AND TREATED WITH AN EPA APPROVED HERBICIDE. IN THE SAW PALMETTO AREA OF THE PRESERVE AREAS, LOCATING THE STEM AND REMOVING BOTH THE ROOT AND VINES WHILE MINIMIZING DAMAGE TO THE SURROUNDING NATIVE VEGETATION WILL PHYSICALLY REMOVE THE VINES.

ST. AUGUSTINE EDGE MAINTENANCE PLAN
ANY AREAS WHERE ST. AUGUSTINE SOD IS LOCATED ADJACENT TO THE PRESERVE AREAS, THE SOD MUST BE EDGED TO PREVENT THE SOD FROM ENCROACHING INTO THE PRESERVE AREAS. THIS CAN BE EDGED WITH A HANDHELD TRIMMER, SUCH AS A "WEED-WACKER", OR SPRAYED AND TREATED WITH AN EPA APPROVED HERBICIDE. ST. AUGUSTINE SOD IS THE ONLY PERMITTED SOD/GRASS ALLOWED ADJACENT TO ANY PRESERVE AREA.

OTHER MANAGEMENT ASPECTS
PLANTING OF NON-NATIVE VEGETATION ON SLOPES ADJACENT TO A PRESERVE ARE PROHIBITED; ONLY 100% NATIVE VEGETATION CAN BE PLANTED ON SLOPES ADJACENT TO ALL PRESERVE AREAS. THE PLANTING OF ANY NON-NATIVE VEGETATION IN PRESERVE AREAS IS NOT ALLOWED. THE PRESERVE MANAGEMENT PLAN SHALL ADDRESS PROTECTIVE MEASURES DURING CONSTRUCTION AND SIGNAGE DURING AND AFTER CONSTRUCTION THAT ARE CONSISTENT WITH SECTION 3.05.04. "THE BOUNDARY OF THE PRESERVE SHALL BE POSTED WITH APPROPRIATE SIGNAGE DENOTING THE AREA AS A PRESERVE. SIGN(S) SHOULD NOTE THAT THE POSTED AREA IS A PROTECTED AREA. THE SIGNS SHALL BE NO CLOSER THAN TEN FEET FROM RESIDENTIAL PROPERTY LINES; BE LIMITED TO A MAXIMUM HEIGHT OF FOUR FEET AND A MAXIMUM SIZE OF TWO SQUARE FEET; AND OTHERWISE COMPLY WITH SECTION 5.06.00. MAXIMUM SIGN SPACING SHALL BE 300 FEET."

ALLOWABLE USES WITHIN PRESERVE AREAS, PASSIVE RECREATIONAL USES SUCH AS PERVIOUS NATURE TRAILS OR BOARDWALKS ARE ALLOWED WITHIN THE PRESERVE AREAS, AS LONG AS ANY CLEARING REQUIRED TO FACILITATE THESE USES DOES NOT IMPACT THE MINIMUM REQUIRED USES THAT WOULD ALLOW LIMITED ACCESS TO THE PRESERVE IN A MANNER THAT WILL NOT CAUSE ANY NEGATIVE IMPACTS TO THE PRESERVE, SUCH AS PERVIOUS PATHWAYS, BENCHES AND EDUCATIONAL SIGNS. FENCES MAY BE UTILIZED OUTSIDE OF THE PRESERVES TO PROVIDE PROTECTION IN THE PRESERVES IN ACCORDANCE WITH THE PROTECTED SPECIES SUBSECTION 3.04.01 D (1)(C) "PROVISIONS SUCH AS FENCING, WALLS, OR OTHER OBSTRUCTIONS SHALL BE PROVIDED TO MINIMIZE DEVELOPMENT IMPACTS TO THE WILDLIFE AND TO FACILITATE AND ENCOURAGE WILDLIFE TO USE WILDLIFE CORRIDORS". FENCES AND WALLS ARE NOT PERMITTED

WITHIN THE PRESERVE AREA. NO BUILDINGS, STRUCTURES OR IMPEDIMENTS OF ANY NATURE MAY BE CONSTRUCTED, PLACED OR PERMITTED IN THE PRESERVE AREAS. PRESERVES MUST BE MAINTAINED IN THEIR NATURAL STATE AND MUST BE KEPT FREE OF REFUSE AND DEBRIS. NO DUMPING OR PLACING OF SOIL OR OTHER SUBSTANCES SUCH AS TRASH OR UNSIGHTLY OR OFFENSIVE MATERIALS IS ALLOWED IN THE PRESERVE AREAS. NO REMOVAL OR DESTRUCTION OF TREES, SHRUBS OR OTHER VEGETATION IS ALLOWED, WITH THE EXCEPTION OF EXOTIC/NUISANCE VEGETATION REMOVAL. NO EXCAVATION, DREDGING OR REMOVAL OF SOIL MATERIAL, PEAT, ROCK OR OTHER MATERIAL SUBSTANCE IS ALLOWED IF IT AFFECTS THE SURFACE IN THE PRESERVE AREAS. DIKES OR FENCING ARE NOT PERMITTED IN THE PRESERVE AREAS. THE PRESERVE AREAS MUST NOT BE IN NO WAY ALTERED FROM ITS NATURAL OR PERMITTED STATE.

EXOTIC PLANT ERADICATION AND NUISANCE TREATMENT
THE PURPOSE OF THIS PLAN IS TO ENSURE THAT PRESERVES ARE MAINTAINED EXOTIC FREE IN

PERPETUITY AND NUISANCE PLANTS ARE CONTROLLED TO HEALTHY LEVELS THRU A SCHEDULED MAINTENANCE PROGRAM. THIS PROGRAM IS INCORPORATED INTO A TWO PHASE PROCESS; THE INITIAL EXOTIC REMOVAL AND THE SUBSEQUENT ANNUAL MAINTENANCE. THE EXOTIC AND NUISANCE PLANT REMOVAL AND MAINTENANCE PROGRAM WILL ENSURE THE VIABILITY, VALUE, AND AESTHETICS OF THE PRESERVE. THE EXOTIC PLANT REMOVAL AND MAINTENANCE PROGRAM WILL BE IMPLEMENTED BY AND THE RESPONSIBILITY OF THE OWNER OR THEIR SUCCESSOR. EXOTIC AND NUISANCE PLANTS OFTEN DOMINATE NATIVE PLANTS, WHICH IN RETURN REDUCES HABITAT VALUES, CONSEQUENTLY NEGATIVELY IMPACT AESTHETIC VALUES. EXOTIC AND NUISANCE PLANTS WILL BE KILLED IN A MANNER CONSISTENT WITH CURRENT APPROVED EXOTIC AND NUISANCE PLANT REMOVAL PRACTICES.

ALL EXOTICS WITHIN THE FIRST 75 FEET OF THE OUTER EDGE OF EVERY PRESERVE SHALL BE PHYSICALLY REMOVED, OR THE TREE CUT DOWN TO GRADE AND THE STUMP TREATED. EXOTICS WITHIN THE INTERIOR OF THE PRESERVE MAY BE APPROVED TO BE TREATED IN PLACE IF IT IS DETERMINED THAT PHYSICAL REMOVAL MIGHT CAUSE MORE DAMAGE TO THE NATIVE VEGETATION IN THE PRESERVE. WHEN PROHIBITED EXOTIC VEGETATION IS REMOVED, BUT THE BASE OF THE VEGETATION REMAINS, THE BASE SHALL BE TREATED WITH AN U.S. ENVIRONMENTAL PROTECTION AGENCY APPROVED HERBICIDE AND A VISUAL TRACER DYE SHALL BE APPLIED. ALL EXOTIC VEGETATION REMOVED FROM THE PRESERVE AREA WILL BE TO BE TAKEN OFF-SITE AND DISPOSED OF: THERE WILL BE NO EXOTICS STOCKPILED WITHIN THE PRESERVE AREA. ANY STAGING AREAS FOR THE REMOVAL OF EXOTIC DEBRIS WILL BE PLACED OUTSIDE OF THE

EXOTIC AND NUISANCE PLANTS WILL BE KILLED IN A MANNER CONSISTENT WITH CURRENT APPROVED REMOVAL PRACTICES; ALL REMOVAL PRACTICES WILL BE CONDUCTED ACCORDING TO CURRENT STANDARDS, AND APPLIED BY A LICENSED HERBICIDE APPLICATOR. SECTIONS 3.05.08 AND 4.06.05 OF THE COLLIER COUNTY LAND DEVELOPMENT CODE REQUIRE THE REMOVAL OF ALL PROHIBITED EXOTIC VEGETATION AND CATEGORY I INVASIVE EXOTIC VEGETATION IN

PRESERVE AND THE EXACT LOCATION WILL BE DETERMINED BY THE CONTRACTOR.

FIRE MANAGEMENT

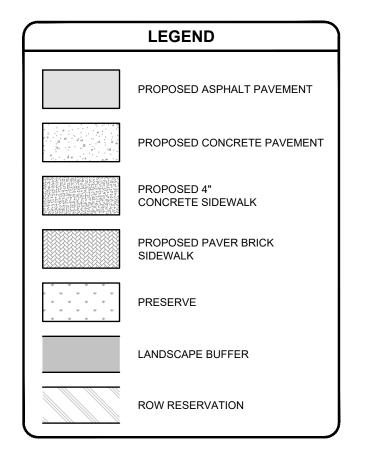
AS PART OF PRESERVE MANAGEMENT PLAN, FIRE MANAGEMENT IS INCLUDED WITHIN THE PRESERVE AREA. ANY DEAD VEGETATION MAY BE REMOVED AND/OR PERIODIC THINNING OF LIVING VEGETATION, THROUGH OCCASIONAL PRESCRIBED BURNS CONDUCTED WITHIN THE PRESERVE. THIS HELPS TO IMPROVE FOREST HEALTH AND MIMIC THE NATURAL EFFECTS OF FIRE, AS APPROPRIATE FOR THE HABITAT TYPE WITHIN THE PRESERVE AREA. FUEL AND FIRE BREAKS SHALL BE KEPT TO A MINIMUM NECESSARY TO CONTROL FIRE AND WILL BE COORDINATED WITH THE STATE OF FLORIDA, DIVISION OF FORESTRY. BEFORE ANY PRESCRIBED BURNS, THE AREAS WITHIN THE PRESERVE WHERE LISTED SPECIES HAVE BEEN PREVIOUSLY DOCUMENTED, WILL BE RE-INSPECTED FOR THE PRESENCE OF ANY NEW NESTS, BURROWS, OR CAVITIES OF LISTED SPECIES THAT MAY BE AFFECTED BY THE LAND MANAGEMENT PRACTICES. BEFORE ANY PRESCRIBED BURNS ARE CONDUCTED ON-SITE ANY FIRE MANAGEMENT CONDUCTED ON-SITE WILL BE CONSISTENT WITH THE CURRENT WILDLIFE HABITAT MANAGEMENT PLAN AND WILL NEED TO BE PRE-APPROVED BY COLLIER COUNTY.

PRESERVE MANAGERS:

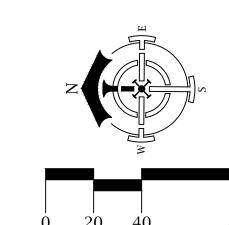
COUNTY CONTACT: TONY BARONE PHONE: (239) 252-8380

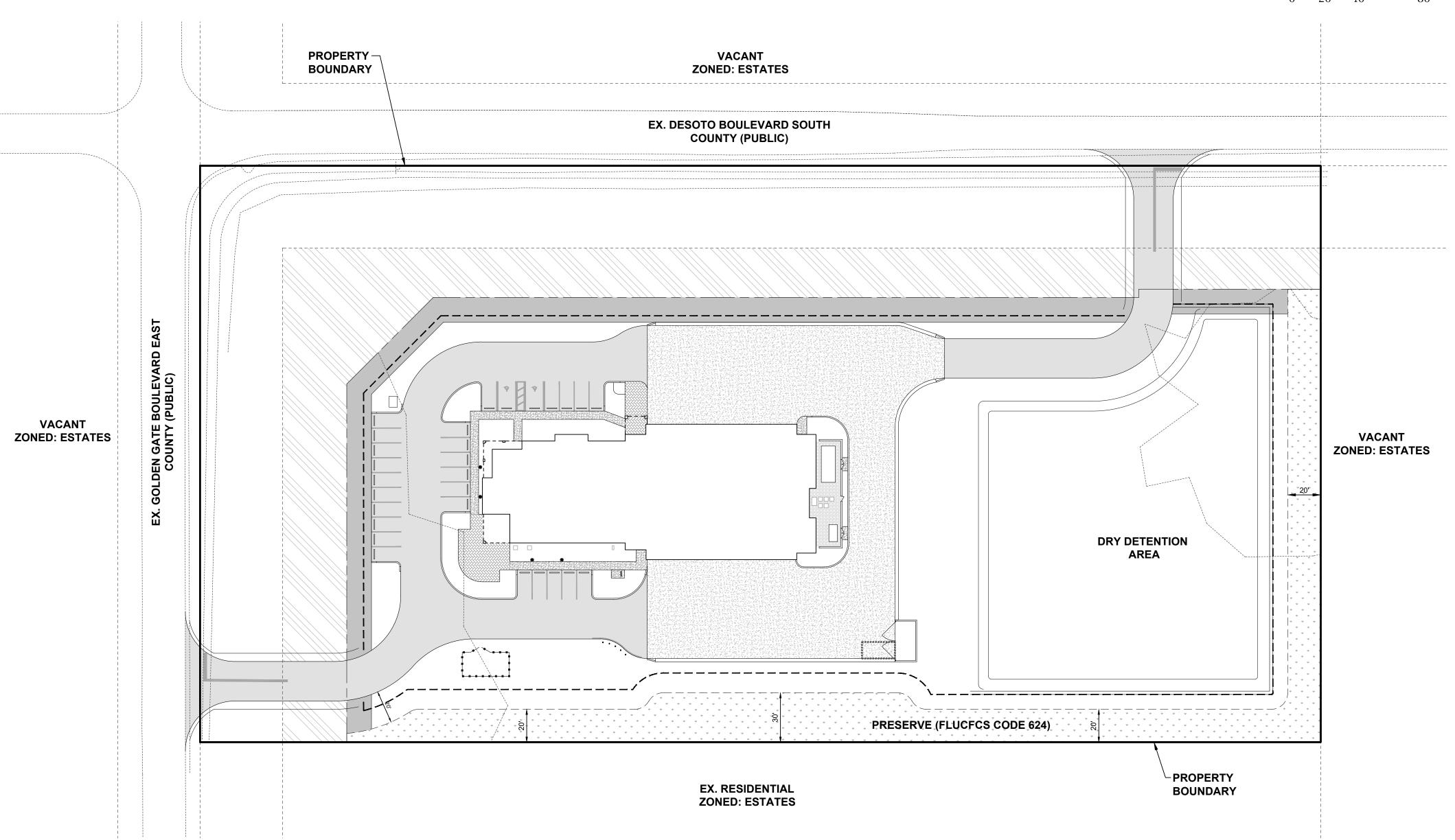
COMPANY: COLLIER COUNTY FACILITIES MANAGEMENT ADDRESS: 3335 TAMIAMI TRAIL EAST, NAPLES, FL 34112

ENVIRONMENTAL CONSULTANT: BARRETT STEJSKAL PHONE: (239) 340-0678 COMPANY: BEARPAWS ENVIRONMENTAL CONSULTING ADDRESS: 1599 COVINGTON CIRCLE EAST, FORT MYERS, FL 33919



FLU	JCFCS LEGEND
CODE	COMMUNITY
624	CYPRESS-PINE-CABBAGE-PALM



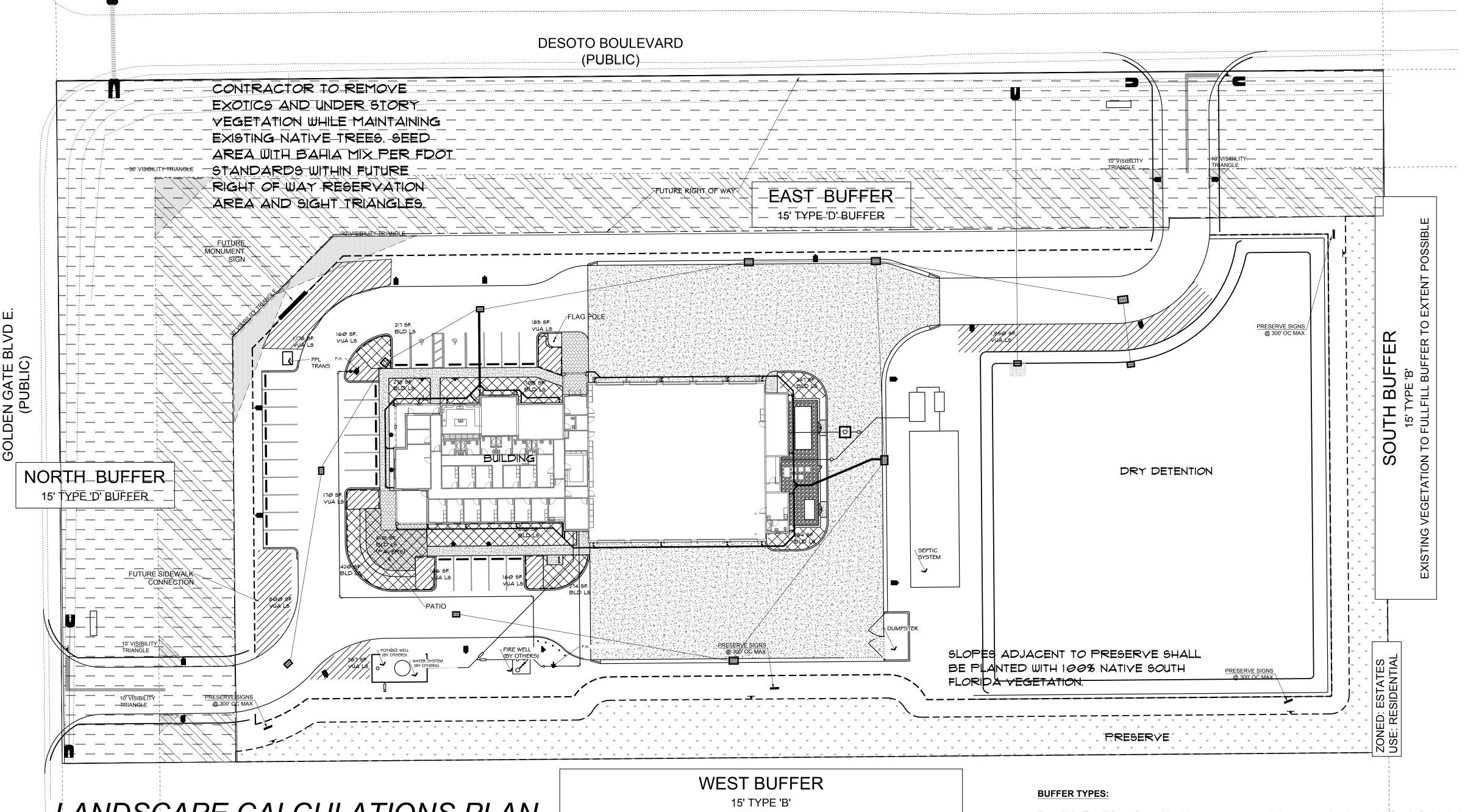




PRESERVE MANAGEMENT PLAN

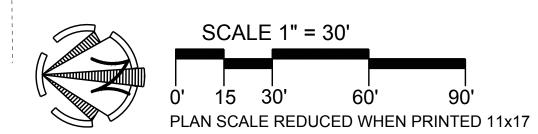
oject Manager: Checked By 21575 oject Number: ocated in Section(s) ownship: 49 S Range: COLLIER COUNTY, F

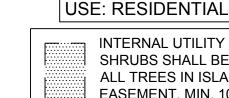
FOR CONSTRUCTION SUBJECT TO ALL PERMIT APPROVALS Sheet Number



LANDSCAPE CALCULATIONS PLAN

EXISTING VEGETATION TO FULLFILL BUFFER TO EXTENT POSSIBLE





ZONED: ESTATES

INTERNAL UTILITY EASEMENT - NO TREES OR LARGE SHRUBS SHALL BE PLANTED INSIDE THESE ZONES. ALL TREES IN ISLANDS ARE LOCATED OUTSIDE OF EASEMENT, MIN. 10' FROM BACK OF CURB

Exotic Vegetation Removal Note:

Prohibited exotic vegetation specifically includes the following: Earleaf acacia (Acacia auriculiformis), Australian pine (Casuarina spp.), Melaleuca (Melaleuca spp.), Catclaw mimose (Minosa pigra), Downy rosemyrtle (Rhodomyrtus tomentosa), Brazilian pepper (Schinus terebinthifolius), Java plum (Syzygium cumini), Women's tongue (Albizia lebbeck), Climbing fern (Lygodium spp.), Air potato (Dioscorea bulbifera), Lather leaf (Colubrina asiatica), Carrotwood (Cupaniopsis anacardioides)

- 1. Prohibited exotic vegetation removal and methods of removal shall be conducted in accordance with the specific provisions of each local development order
- 2. Native vegetation shall be protected during the process of removing prohibited exotic vegetation, in accord with the provisions of LDC section 3.05.04.
- 3. Prohibited exotic vegetation shall be removed from the following locations, and within the following timeframes: a. From all rights-of-way, common area tracts not proposed for development, and easements prior to preliminary acceptance of each phase of the required subdivision improvements.
- b. From each phase of a site development plan prior to the issuance of the certificate of occupancy for that
- c. From all golf course fairways, roughs, and adjacent open space /natural preserve areas prior to the issuance of a certificate of occupancy for the first permitted structure associated with the golf course facility. d. From property proposing any enlargement of existing interior floor space, paved parking area, or substantial
- site improvement prior to the issuance of a certificate of occupancy. 4. In the case of the discontinuance of use or occupation of land or water or structure for a period of 90 consecutive days or more, property owners shall, prior to subsequent use of such land or water or structure, conform to the regulations specified by this section.
- 5. Verification of prohibited exotic vegetation removal shall be performed by the County Manager or designee. 6. Herbicides utilized in the removal of prohibited exotic vegetation shall have been approved by the U.S. Environmental Protection Agency. Any person who supervises up to eight (8) people in the application of pesticides and herbicides in the chemical maintenance of exotic vegetation in preserves, required retained native vegetation areas, wetlands, or LSPA shall maintain the Florida Dept. of Agriculture and Consumer Services certifications for Natural Areas Pesticide Applicators or Aquatic Herbicide Applicators dependent upon the specific area to be treated. When prohibited exotic vegetation is removed, but the base of the vegetation remains, the base shall be treated with an U.S. Environmental Protection Agency approved herbicide and a visual tracer dye shall be applied.

- B. Exotic vegetation maintenance plan. A maintenance plan shall be submitted to the County Manager or designee for review on sites which require prohibited exotic vegetation removal prior to the issuance of the local development order. This maintenance plan shall describe specific techniques to prevent reinvasion by prohibited exotic vegetation of the site in perpetuity. This maintenance plan shall be implemented on a yearly basis at a minimum. Issuance of the local development order shall be contingent upon approval of the maintenance plan. Noncompliance with this plan shall constitute violation of this section. The County Manager or designee shall inspect sites periodically after issuance of the certificate of occupancy, or other final acceptance, for compliance
- C. Applicability to new structures and to additions on single-family and two-family lots. In addition to the other requirements of this section, the applicant shall be required to remove all prohibited exotic vegetation before a certificate of occupancy is granted on any new principal or accessory structure and any additions to the square footage of the principal or accessory structures on single-family or two-family lots. This shall not apply to tents, awnings, cabanas, utility storage sheds, or screened enclosures not having a roof impervious to weather. This shall not apply to interior remodeling of any existing structure. The removal of prohibited exotic vegetation shall be required in perpetuity. Upon issuance of a vegetation removal permit, subject to the provisions in LDC section 3.05.02 F. and G., prohibited exotic vegetation may be removed prior to issuance of a building permit.
- D. Exceptions. Prohibited exotic vegetation may remain on property when the County Manager or designee receives a request from the property owner to retain the vegetation. The County Manager or designee shall approve such a request upon finding that at least one of the following criteria has been met.
- 1. The prohibited exotic vegetation has been previously approved through the County development review process and planted in accordance with the landscape requirements at the time of final local development order approval.
- 2. The subject lot is developed with, or proposed to be developed with, a single family dwelling unit, and: a. is not within the RFMU Sending Lands overlay district; and
 - b. is not within a NRPA overlay district; and
 - c. is not located on a undeveloped coastal barrier island; and
 - d. the vegetation requested to be retained is an existing Java plum tree(s) that has attained single-trunk diameter at breast height (DBH) of 18 inches or more.
- 3. The prohibited exotic vegetation contains a nest of a bald eagle. Where such vegetation occurs within a bald eagle nest protection zone, removal shall be in accordance with the FWC Bald Eagle Management Plan and FWC Bald Eagle Management Guidelines, or as otherwise permitted by the FWC and/or USFWS. Where a bald eagle nest is determined to be "lost" as defined by the FWC, such vegetation shall be removed as required by LDC section 3.05.08.

Type B Buffer: Fifteen-foot-wide, 80 percent opaque within one year landscape buffer six feet in height, which may include a wall, fence, hedge, berm or combination thereof, including trees spaced no more than 25 feet on center. When planting a hedge, it shall be a minimum of ten gallon plants five feet in height, three feet in spread and spaced a maximum four feet on center at planting. When a Type B buffer is located within a residential PUD and adjacent to a lake, the required plant materials may be clustered to provide views. Clustered tree plantings shall not exceed 60 feet between clusters and the clustered hedge plantings can be provided as a double row of shrubs that are a minimum of 30 inches in height. When the adjacent lake exceeds 1,500 feet in width the hedge planting shall not be required. When a community facility is located within a residential PUD and abuts a residential unit, a Type B buffer shall be required. When a fence or wall is used within the buffer a minimum of 50 percent of the trees and hedge plantings shall be located on the residential side of the fence or wall.

RESOLUTION NO. 21- 20

PRESERVES MAY BE USED TO SATISFY THE LANDSCAPE BUFFER REQUIREMENTS AFTER EXOTIC VEGETATION REMOVAL IN ACCORDANCE WITH LDC SECTIONS 4.06 .02 AND 4.06 .05.E.1. SUPPLEMENTAL PLANTINGS WITH NATIVE PLANT MATERIALS SHALL BE IN ACCORDANCE WITH LDC SECTION 3.05.07. IN ORDER TO MEET THE LDC REQUIREMENTS FOR A TYPE B BUFFER ALONG THE WESTERN AND SOUTHERN BOUNDARIES OF THE PROJECT, A 6-FOOT WIDE LANDSCAPE BUFFER RESERVATION HAS BEEN IDENTIFIED ON THE CONCEPTUAL SITE PLAN. IN THE EVENT THAT THE PRESERVE DOES NOT MEET BUFFER REQUIREMENTS AFTER REMOVAL OF EXOTICS AND SUPPLEMENTAL PLANTING WITHIN THE PRESERVE. PLANTINGS WILL BE PROVIDED IN THE 6-FOOT WIDE RESERVATION TO MEET \mid THE BUFFER REQUIREMENTS . THE TYPE, SIZE, AND NUMBER OF SUCH PLANTINGS , IF NECESSARY, WILL BE DETERMINED AT TIME OF INITIAL SDP OR PLAT AND INCLUDED ON THE LANDSCAPE PLANS FOR THE SOP OR PLAT.

Type D Buffer: Where the ultimate width of the right-of-way is 100 or more feet, the corresponding landscape buffer shall measure at least 15 feet in width.

- a. Trees shall be spaced no more than 30 feet on center in the landscape buffer abutting a right-of-way or primary access road internal to a commercial development
- b. A continuous 3 gallon double row hedge spaced 3 feet on center of at least 24 inches in height at the time of planting and attaining a minimum of 30 inches in height in one year shall be required in the landscape buffer where vehicular areas are adjacent to the road right-of-way, pursuant to LDC section 4.06.05 D.4.
- c. Where a fence or wall fronts an arterial or collector road as described by the transportation circulation element of the growth management plan, a continuous 3 gallon single row hedge a minimum of 24 inches in height spaced 3 feet on center, shall be planted along the right-of-way side of the fence. The required trees shall be located on the side of the fence facing the right-of-way. Every effort shall be made to undulate the wall and landscaping design incorporating trees, shrubs, and ground cover into the design. It is not the intent of this requirement to obscure from view decorative elements such as emblems, tile, molding and wrought iron.
- d. The remaining area of the required landscape buffer must contain only existing native vegetation, grass, ground cover, or other landscape treatment. Every effort should be made to preserve, retain and incorporate the existing native vegetation in these areas.
- e. A signage visibility triangle may be created for non-residential on-premises signs located as shown in Figure 4.06.02.C-2 for Type D buffers that are 20 feet or greater in width. The line of visibility shall be no greater than 30 linear feet along road right-of-way line. Within the visibility triangle, shrubs and hedges shall be required pursuant to LDC section 4.06.05.D.4, except that hedges, shrubs, or ground cover located within the signage visibility triangle shall be maintained at a maximum plant height of 24 inches. Within the visibility triangle, no more than one required canopy tree may be exempted from the Type D buffer requirements.

Collier County Landscape Calculations

Site Data Zoning: East Estates, Conditional Use

Landuse: Government Safety Service Project Area: 158,661S.F. (+/-3.64 AC) (Excluding future R.O.W.)

Preserve Area

Preserve area existing vegetation to full fill buffer plantings or be augmented per zoning resolution condition.

General Landscape Requirements (4.06.05.B.1)

Commercial Developments require trees at 1/ 3,000 S.F. of pervious site area. 75,995 S.F. of pervious site area (excluding preserves) / 3,000 = 26 General Trees required and 26 provided by required trees below or otherwise labeled as General (G).

Vehicle Use Area (V.U.A.) Landscape Requirements

(4.06.03.B.1) 10% of V.U.A. to be provided as interior landscaping areas

One (1) tree required per 250 s.f. of required interior landsaping area. 40,555 S.F. of V.U.A. proposed (.10) = 4,055 S.F. of interior landscaping area required and 4,863 S.F. provided, per hatching. 4,055/250 = 16 trees required and 16 provided,

Building Perimeter Landscape Requirements (4.06.05.C.1)

labeled as Parking (P).

Total of all facades (Linear Feet) x .45 x 15'= required foundation area, planted at Min. 50%. 600 L.F.Building Perimeter x .45 x 15' = 4,050S.F. of Perimeter Planting area required and 4,056 S.F. provided by hatching, as shown. 20% of area may be in pavers (810 sf)

1 Tree per 400 sf required= 10 trees required. Trees to be 16' ht Required plantings are labeled as Building (BD). Overhead doors are to be glazed.

Perimeter Buffer Requirements NORTH BUFFER:

(Abuts Right-of-Way) 15' Type 'D' Buffer Required Trees at 30' oc with continuous double hedge. 215 If / 30' = 8 trees required, 8 provided 215 lf / 3x2 = 144 shrubs required, 144 provided

EAST BUFFER:

(Abuts Right-of-Way) 15' Type 'D' Buffer Required Trees at 30' oc with continuous double hedge.

495 lf / 30' = 17 trees required, 17 provided 495 If / 3x2 = 330 shrubs required, 330 provided

SOUTH BUFFER: (Abuts Residential)

15' TYPE 'B' BUFFER Required Trees at 25' oc with continuous 5' hedge.

250 lf / 25' = 10 trees required, 10 provided 250 lf / 4= 63 shrubs required, 63 provided shrubs to be 10 gallon, 5' ht, 3' spr.@4' o.c (Existing vegetation may full fill buffer)

WEST BUFFER: (Abuts Residential) 15' TYPE 'B' BUFFER Required Trees at 25' oc with continuous 5'

575 lf / 25' = 23 trees required, 23 provided 575 lf / 4= 144 shrubs required, 144 provided shrubs to be 10 gallon, 5' ht, 3' spr.@4' o.c (Existing vegetation may full fill buffer)

Tree Species Mix: INLAND ZONE; 75% Native Trees and 50% Native Shrubs required +41 --> 5 Tree Species Minimum Required





DAVID M. JONES, JR. AND ASSOCIATES, INC

LANDSCAPE ARCHITECTS AND PLANNERS

2221 McGregor Blvd. Fort Myers, Florida 33901 Phone: (239) 337 - 5525 Fax: (239) 337 - 4494

4161 Tamiami Trail, Bldg. Port Charlotte, Florida 33952 Phone: (941) 235 - 2217 Fax: (239) 337 - 4494

PROJECT INFORMATION:

L.A. LICENSE: LC COOO063

COLLIER EMS 74 **GOLDEN GATE**

COLLIER COUNTY, FL

DeLisi Fitzgerald, Inc. 1605 Hendry Street Fort Myers, FL 33901 Ph: (239) 418-0691 Fax: (239) 418-0692 iohn@delisifitzgerald.com

CONSULTANT:

DESIGN PROFESSIONAL

GREGORY J DISERIO, R.L.A. NO.: 840 STATE OF FLORIDA

ROJECT NO. 221039 ROJECT MJR: GREGORY J. DISERIO OLLIER EMS 74 LS ILE NAME: GJD DESIGNER: AD TECH: GJD GJD HECKED BY: SSUED FOR:

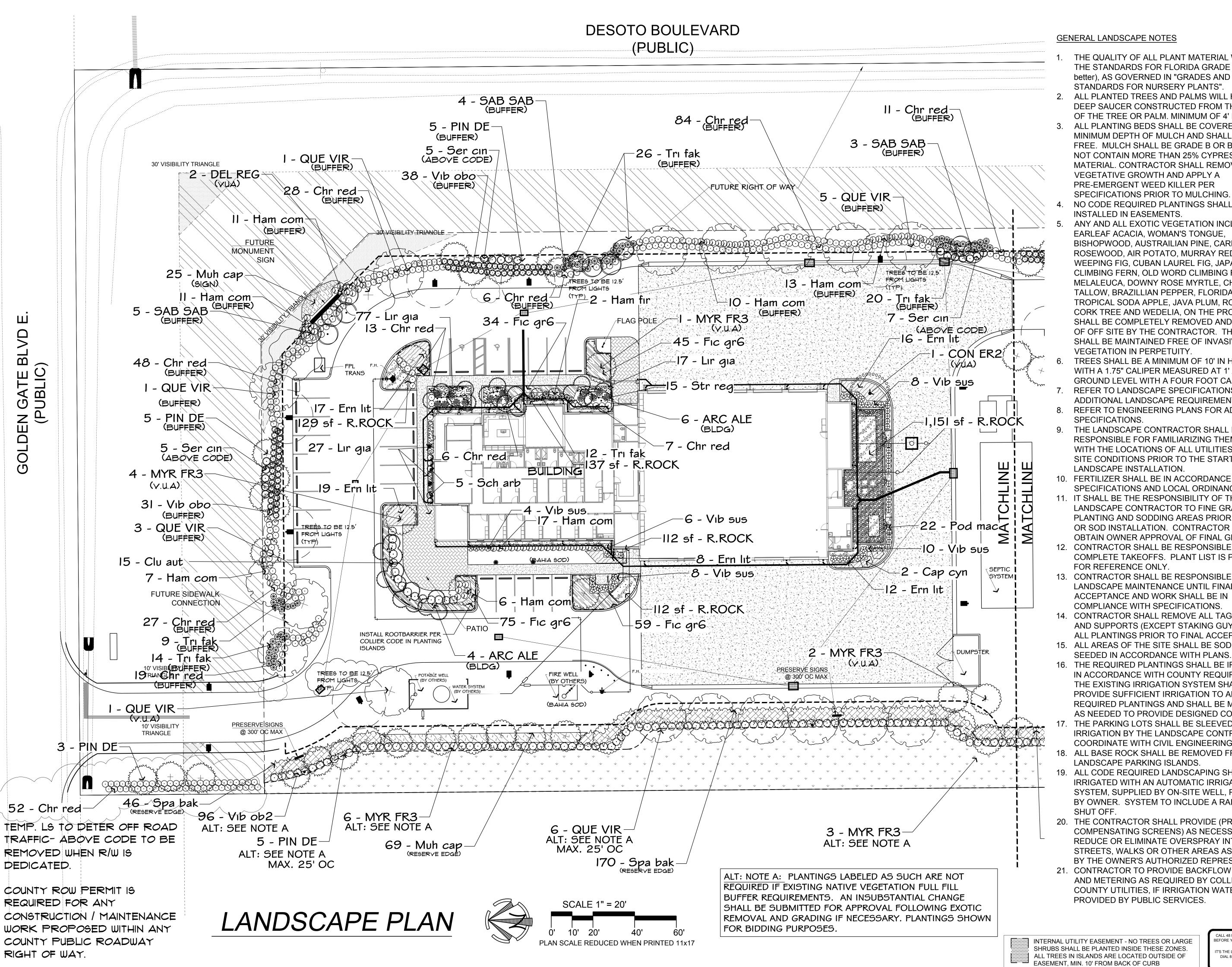
SSUED DATE: OCT. 6, 2021 EVISIONS: JAN. 10, 2022 RAI RESPONSE FEB. 14, 2022 RAI RESPONSE APRIL 11, 2022 BIDDING

3/18/22 TEMP. R.O.W. PLANTINGS

BIDDING

LANDSCAPE **CALCULATIONS** PLAN

SHEET NUMBER



GENERAL LANDSCAPE NOTES

- THE QUALITY OF ALL PLANT MATERIAL WILL MEET THE STANDARDS FOR FLORIDA GRADE NO.1 (or better), AS GOVERNED IN "GRADES AND STANDARDS FOR NURSERY PLANTS".
- ALL PLANTED TREES AND PALMS WILL HAVE A 3" DEEP SAUCER CONSTRUCTED FROM THE TRUNK OF THE TREE OR PALM. MINIMUM OF 4' DIAMETER
- ALL PLANTING BEDS SHALL BE COVERED WITH A 3 MINIMUM DEPTH OF MULCH AND SHALL BE WEED MULCH SHALL BE GRADE B OR BETTER AND NOT CONTAIN MORE THAN 25% CYPRESS MATERIAL. CONTRACTOR SHALL REMOVE ANY VEGETATIVE GROWTH AND APPLY A PRE-EMERGENT WEED KILLER PER SPECIFICATIONS PRIOR TO MULCHING.
- NO CODE REQUIRED PLANTINGS SHALL BE INSTALLED IN EASEMENTS.
- ANY AND ALL EXOTIC VEGETATION INCLUDING: EARLEAF ACACIA. WOMAN'S TONGUE BISHOPWOOD, AUSTRAILIAN PINE, CARROTWOOD ROSEWOOD, AIR POTATO, MURRAY RED GUM WEEPING FIG, CUBAN LAUREL FIG, JAPANESE CLIMBING FERN, OLD WORD CLIMBING FERN. MELALEUCA, DOWNY ROSE MYRTLE, CHINESE TALLOW, BRAZILLIAN PEPPER, FLORIDA HOLLY, TROPICAL SODA APPLE, JAVA PLUM, ROSE APPLE. CORK TREE AND WEDELIA. ON THE PROPERTY SHALL BE COMPLETELY REMOVED AND DISPOSED OF OFF SITE BY THE CONTRACTOR. THE SITE SHALL BE MAINTAINED FREE OF INVASIVE EXOTIC **VEGETATION IN PERPETUITY.**
- TREES SHALL BE A MINIMUM OF 10' IN HEIGHT WITH A 1.75" CALIPER MEASURED AT 1' ABOVE GROUND LEVEL WITH A FOUR FOOT CANOPY
- REFER TO LANDSCAPE SPECIFICATIONS FOR ADDITIONAL LANDSCAPE REQUIREMENTS.
- REFER TO ENGINEERING PLANS FOR ADDITIONAL **SPECIFICATIONS**
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE LOCATIONS OF ALL UTILITIES AND ALL SITE CONDITIONS PRIOR TO THE START OF LANDSCAPE INSTALLATION
- 10. FERTILIZER SHALL BE IN ACCORDANCE WITH SPECIFICATIONS AND LOCAL ORDINANCES
- 11. IT SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO FINE GRADE ALL PLANTING AND SODDING AREAS PRIOR TO PLANT OR SOD INSTALLATION. CONTRACTOR SHALL OBTAIN OWNER APPROVAL OF FINAL GRADES.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE TAKEOFFS. PLANT LIST IS PROVIDED FOR REFERENCE ONLY.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE UNTIL FINAL ACCEPTANCE AND WORK SHALL BE IN COMPLIANCE WITH SPECIFICATIONS.
- 14. CONTRACTOR SHALL REMOVE ALL TAGS. TAPE AND SUPPORTS (EXCEPT STAKING GUYS) FROM ALL PLANTINGS PRIOR TO FINAL ACCEPTANCE. 15. ALL AREAS OF THE SITE SHALL BE SODDED OR
- 16. THE REQUIRED PLANTINGS SHALL BE IRRIGATED IN ACCORDANCE WITH COUNTY REQUIREMENTS. THE EXISTING IRRIGATION SYSTEM SHALL PROVIDE SUFFICIENT IRRIGATION TO ALL REQUIRED PLANTINGS AND SHALL BE MAINTAINED AS NEEDED TO PROVIDE DESIGNED COVERAGE THE PARKING LOTS SHALL BE SLEEVED FOR
- IRRIGATION BY THE LANDSCAPE CONTRACTOR. COORDINATE WITH CIVIL ENGINEERING PLANS. 18. ALL BASE ROCK SHALL BE REMOVED FROM
- LANDSCAPE PARKING ISLANDS.
- 19. ALL CODE REQUIRED LANDSCAPING SHALL BE IRRIGATED WITH AN AUTOMATIC IRRIGATION SYSTEM, SUPPLIED BY ON-SITE WELL, PROVIDED BY OWNER. SYSTEM TO INCLUDE A RAIN SWITCH SHUT OFF.
- 20. THE CONTRACTOR SHALL PROVIDE (PRESSURE COMPENSATING SCREENS) AS NECESSARY TO REDUCE OR ELIMINATE OVERSPRAY INTO STREETS, WALKS OR OTHER AREAS AS DICTATED BY THE OWNER'S AUTHORIZED REPRESENTATIVE
- 21. CONTRACTOR TO PROVIDE BACKFLOW DEVICE AND METERING AS REQUIRED BY COLLIER COUNTY UTILITIES, IF IRRIGATION WATER IS TO BE PROVIDED BY PUBLIC SERVICES.

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ANDSCAPE ARCHITECTS AND PLANNERS

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PROJECT INFORMATION:

COLLIER EMS 74 **GOLDEN GATE**

COLLIER COUNTY, FL

PREPARED FOR: DeLisi Fitzgerald, Inc. 1605 Hendry Street Fort Myers, FL 33901 Ph: (239) 418-0691 Fax: (239) 418-0692 john@delisifitzgerald.com

CONSULTANT:

DESIGN PROFESSIONAL:

GREGORY J DISERIO, R.L.A. NO.: 840 STATE OF FLORIDA

PROJECT NO.	221039
PROJECT MJR:	GREGORY J. DISERIO
FILE NAME:	COLLIER EMS 74_LS
DESIGNER:	GJD
CAD TECH:	GJD
CHECKED BY:	GJD
ISSUED FOR:	
E	BIDDING

SSUED DATE: OCT. 6, 2021 REVISIONS: JAN. 10, 2022 RAI RESPONS

FEB. 14, 2022 RAI RESPONS APRIL 11, 2022 BIDDING 8/18/22 TEMP. R.O.W. PLANTINGS

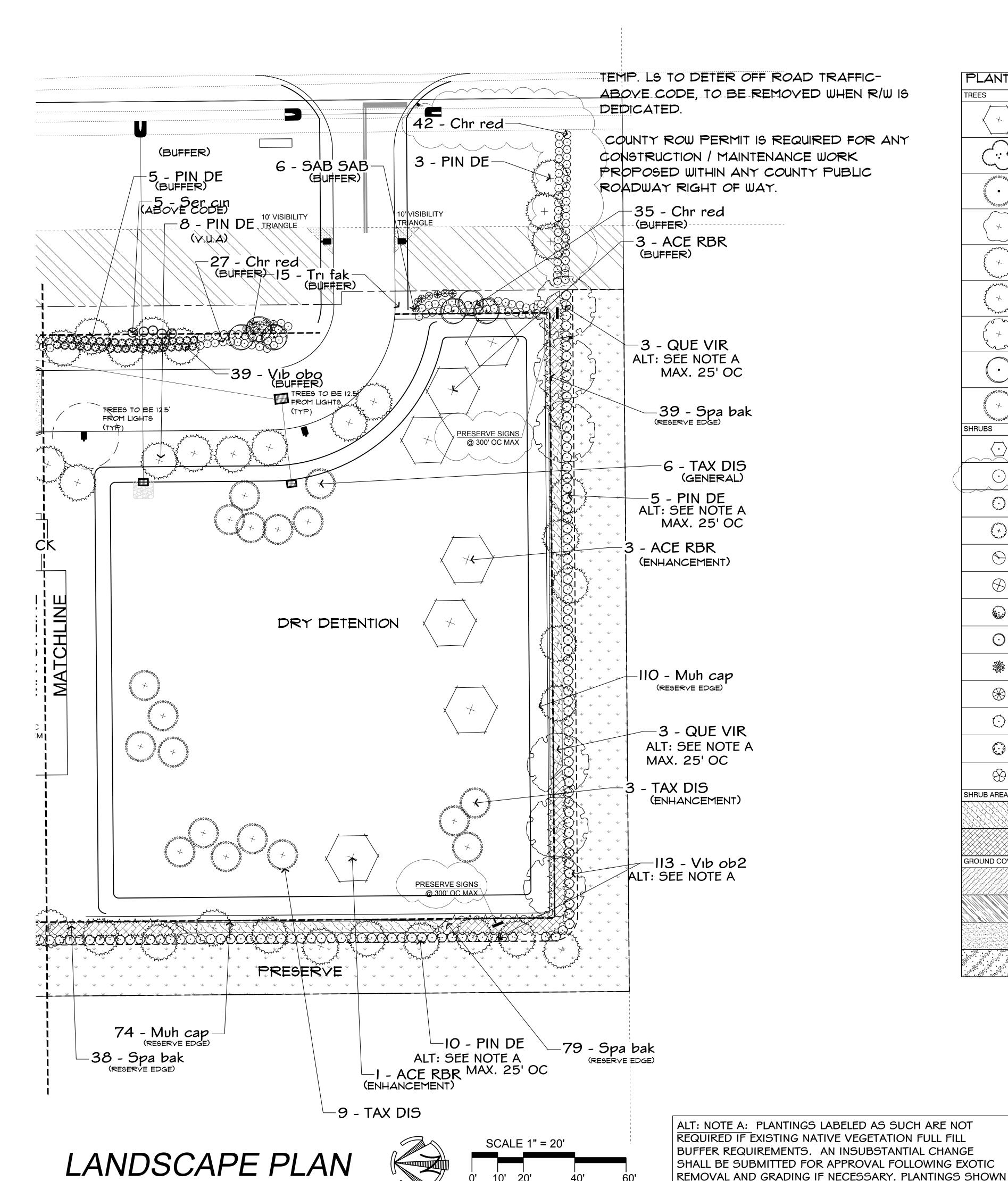
LANDSCAPE PLAN

& NOTES

SHEET NUMBER:

INTERNAL UTILITY EASEMENT - NO TREES OR LARGE SHRUBS SHALL BE PLANTED INSIDE THESE ZONES. ALL TREES IN ISLANDS ARE LOCATED OUTSIDE OF EASEMENT. MIN. 10' FROM BACK OF CURB

Know what's BELOW



NATIVE 16` OA. HT. TRIPLE STEM ARC ALE Archontophoenix alexandrae Alexandra Palm NON NATIVE-GENERAL OR ~: S BUILDING TREE MIN. 16' OA HT CON ER2 Conocarpus erectus 14` ht, 3.5" cal, 6` spr Royal Poinciana 12`-14` HT, 3.5" CAL., 6` SPR. 45 GAL DEL REG MYR FR3 Myrcianthes fragrans Simpson's Stopper Min. 2" Cal., 10` Ht., 4` Sprd. NATIVE PIN DE Pinus elliotti densa Slash Pine Min. 2" Cal., 10` Ht., 4` Sprd. NATIVE QUE VIR Quercus virginiana Southern Live Oak Min. 2" Cal., 10` Ht., 4` Sprd. SAB SAB Cabbage Palmetto 10`-16` clear trunk Taxodium distichum Min. 2" Cal., 10` Ht., 4` Sprd. TAX DIS Bald Cypress NATIVE SHRUBS CODE QTY **BOTANICAL NAME** COMMON NAME SIZE Capparis cynophallophora Cap cyn Jamaica Caper Red Tip Cocoplum Autograph Tree 10 GALLON, 5` HT, @ 4` OC IF NECESSARY Clu aut NATIVE Ham fir Hamelia patens Firebush Hamelia patens 'Compacta' Dwarf Firebush 3 gal., 24" ht Ham com 75 \bigcirc Podocarpus macrophyllus 3 gal., 24" ht Pinarf Schefflera Silver Saw Palmetto 3 gal, 12" ht. Serenoa repens 'Cinerea' Bird Of Paradise 7 gal., 18"-24" ht. Strelitzia reginae Tripsacum dactyloides 3 gal., 24" ht Fakahatchee Grass NATIVE Vib ob2 Viburnum obovatum Walter's Viburnum 10 GALLON, 5` HT, @ 4` OC IF NECESSARY Min. 24" Ht., 3 Gallon Vib obo Walter`s Viburnum 3 gal., 24" ht Viburnum suspensum Sandankwa Viburnum Vib sus SHRUB AREAS CODE QTY **BOTANICAL NAME** COMMON NAME SIZE SPACING l gal. Muh cap Muhlenbergia capillaris Pink Muhly Grass NATIVE Sand Cordgrass **BOTANICAL NAME** COMMON NAME SPACING GROUND COVERS | CODE Ernodea littoralis 36" o.c. Golden Creeper Ficus microcarpa 'Green Island' Green Island Fig Evergreen Giant Lilyturf Liriope muscari 'Evergreen Giant' 18" o.c. I"-1.5" RIVER ROCK 1,642 sf **EROSION DRIP EDGE**

COMMON NAME

SIZE

Min. 2" Cal., 10` Ht., 4` Sprd.

FOR BIDDING PURPOSES.

PLAN SCALE REDUCED WHEN PRINTED 11x17

PLANT SCHEDULE

CODE

ACE RBR

QTY

BOTANICAL NAME

Acer rubrum

- 1. ALTERNATE NATIVE SPECIES ARE ACCEPTABLE

- CONTRACTOR SHALL BE RESPONSIBLE FOR PLANT COUNT, MULCH AND SOD QUANTITIES.
- 1. REFER TO NOTE A FOR SOUTH AND WEST BUFFER PLANTING REQUIREMENTS.
- 8. CONTRACTOR RESPONSIBLE FOR ROOT BARRIER QUANTITY PER PLAN.

- 2. MINIMUM OF A DOUBLE ROW OF PLANTINGS AT 30" O.C. ALONG PRESERVE AREAS.
- 3. PLANT BED TO BE MULCHED WITH GRADE B MULCH. CYPRESS MULCH IS PROHIBITED.
- PRESERVE SIGNAGE TO BE INSTALLED PER PLAN. MINIMUM OF SIGNS REQUIRED PER L-4.
- 6. ALL AREAS OF THE SITE, NOT PLANTED, SHALL BE SODDED WITH BAHIA SOD.

INTERNAL UTILITY EASEMENT - NO TREES OR LARGE SHRUBS SHALL BE PLANTED INSIDE THESE ZONES. ALL TREES IN ISLANDS ARE LOCATED OUTSIDE OF EASEMENT, MIN. 10' FROM BACK OF CURB

CALL 48 HOURS BEFORE YOU DIG

& PLANT **SCHEDULE** Know what's BELOW.

SHEET NUMBER

DESIGN PROFESSIONAL

DAVID M. JONES, JR. AND ASSOCIATES, INC

LANDSCAPE ARCHITECTS AND PLANNERS

2221 McGregor Blvd.

Fort Myers, Florida 33901

4161 Tamiami Trail, Bldg. 5.

Port Charlotte, Florida 33952

Phone: (941) 235 - 2217 Fax: (239) 337 - 4494

L.A. LICENSE: LC COOO063

PROJECT INFORMATION:

COLLIER EMS 74

GOLDEN GATE

COLLIER COUNTY, FL

PREPARED FOR:

DeLisi Fitzgerald, Inc.

1605 Hendry Street

Fort Myers, FL 33901

Ph: (239) 418-0691 Fax: (239) 418-0692

john@delisifitzgerald.com

CONSULTANT:

Phone: (239) 337 - 5525

Fax: (239) 337 - 4494

GREGORY J DISERIO, R.L.A. NO.: 840 STATE OF FLORIDA

PROJECT NO.	221039
PROJECT MJR:	GREGORY J. DISERIO
FILE NAME:	COLLIER EMS 74_LS
DESIGNER:	GJD
CAD TECH:	GJD
CHECKED BY:	GJD
ISSUED FOR:	

BIDDING

SSUED DATE: OCT. 6, 2021 REVISIONS: JAN. 10, 2022 RAI RESPONSI

FEB. 14, 2022 RAI RESPONSI APRIL 11, 2022 BIDDING /18/22 TEMP. R.O.W. PLANTING

LANDSCAPE PLAN

3" SETTLED MULCH.

MAINTAIN 1" DEPTH AT

TRUNK. MULCH RING TO

INCORPORATE STAKING

CUT OFF UNOPENED FRONDS AND BUD 6"-8" FROM EMERGENCE

CUT OFF ALL FRONDS

5-2"X4"X16" BATTENS

BANDING IN TWO PLACES

MINIMUM 3-2"x4" BRACES

4"-6" SAUCER ABOVE

(REMOVE AFTER 6 MONTHS)

FINISH GRADE

2"x4"x30" STAKE

FINISHED GRADE

CLEAN BACKFILL

FINISHED GRADE

WATERED IN

(SEE SPEC.)

STABILIZED SOIL

ABOVE FINISHED GRADE

SOILS OR 48" WHICHEVER IS GREATER.

ÙNDISTURBÉD

SET ROOT BALL 1"-2"

INSTALL SUMP IN AREAS WHERE SOIL IS COMPACTED AND/OR

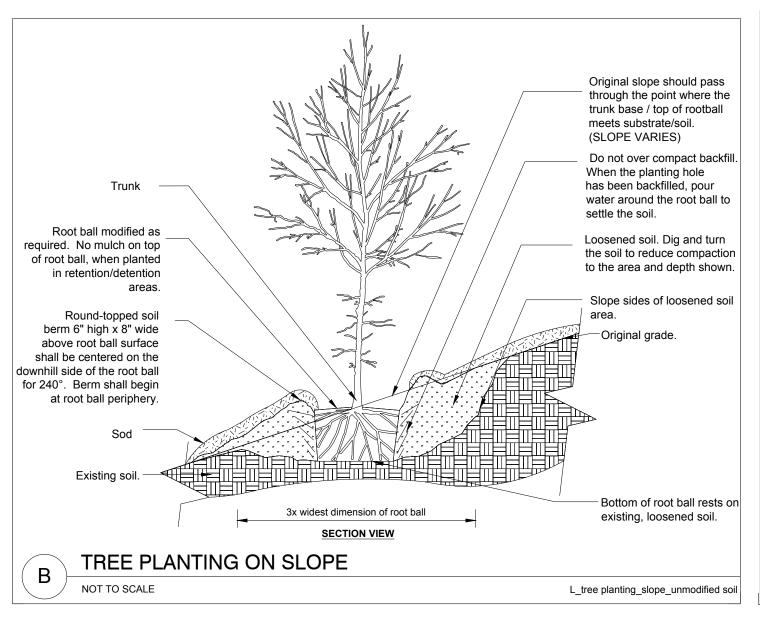
DEPTH OF SUMP TO BE EQUAL TO DEPTH OF POORLY DRAINED

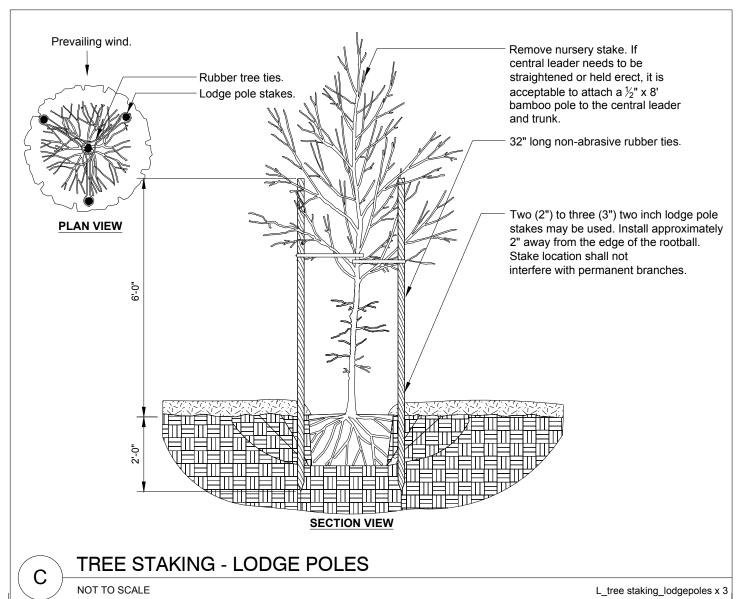
D PALMATE PALM DETAIL: CIGAR CUT

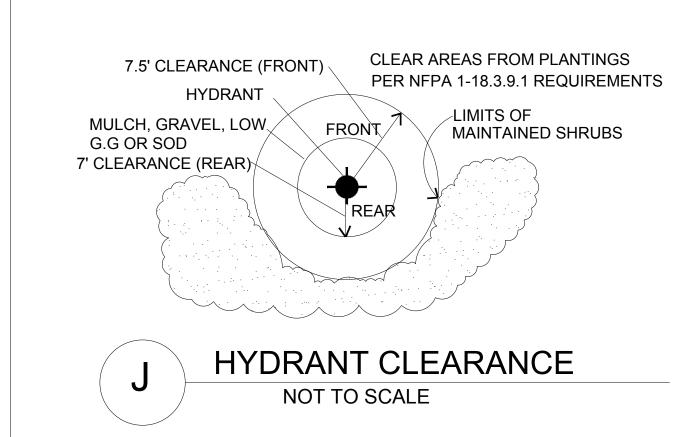
WATER TABLE IS 24" BELOW FINISHED GRADE OR LESS.

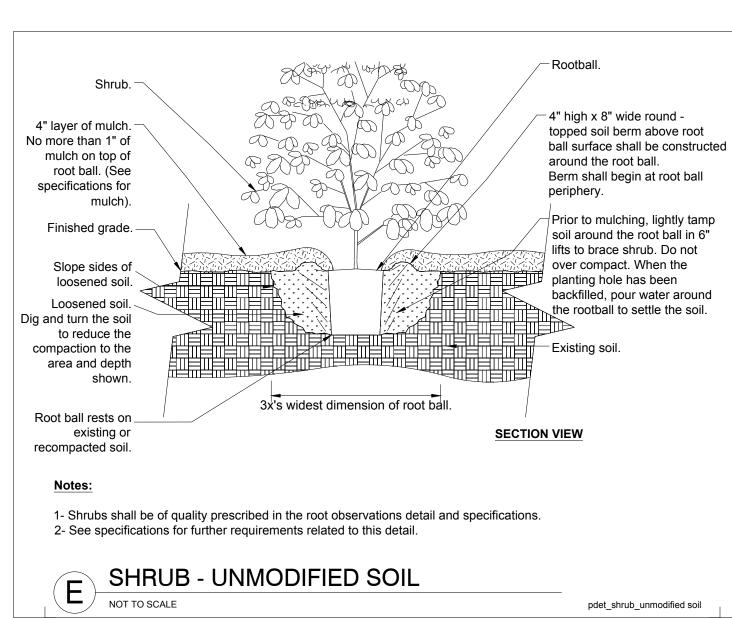
120 APART

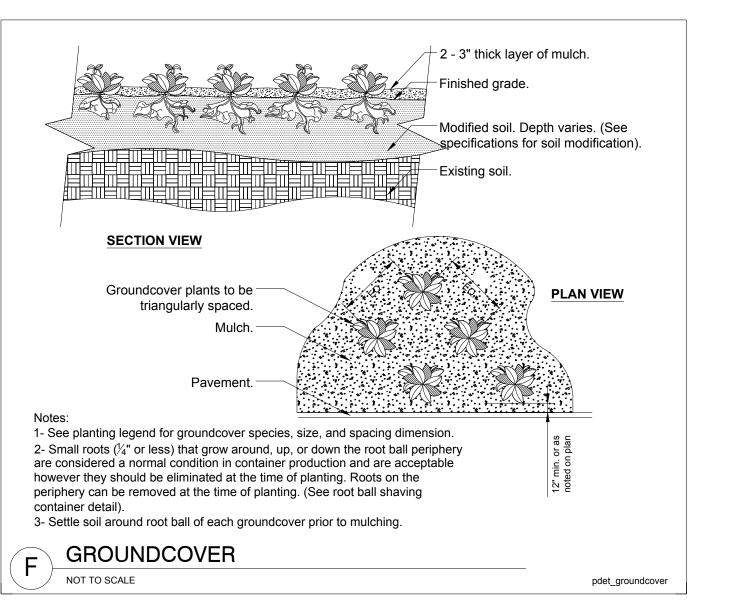
(CABBAGE PALMS ONLY)

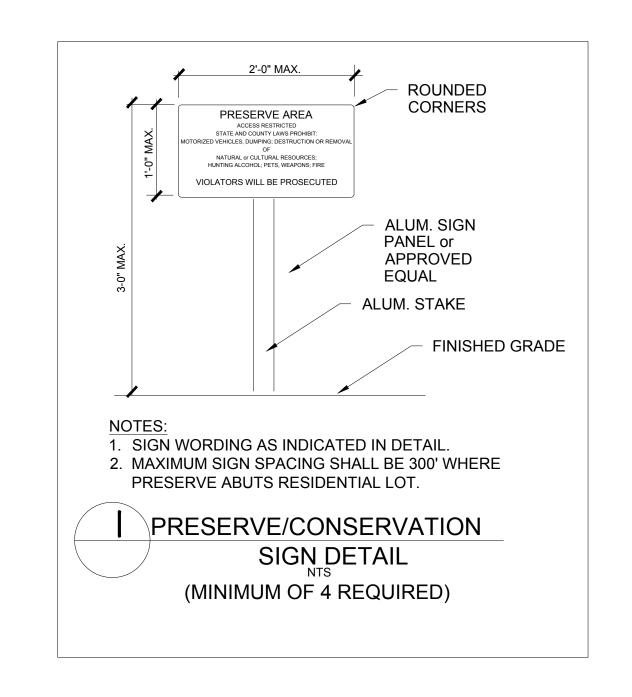


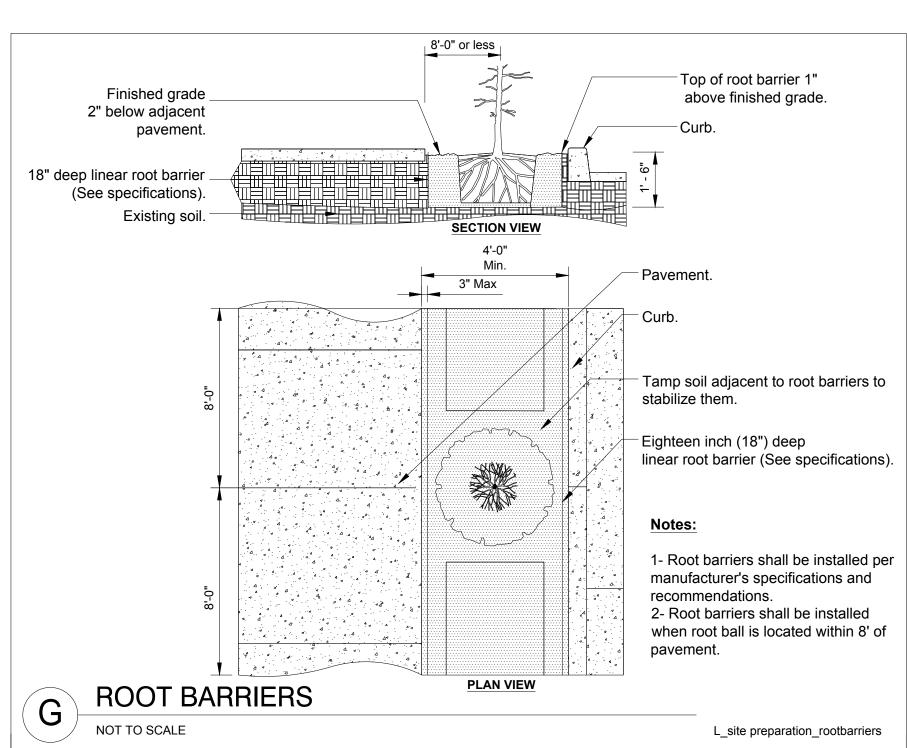




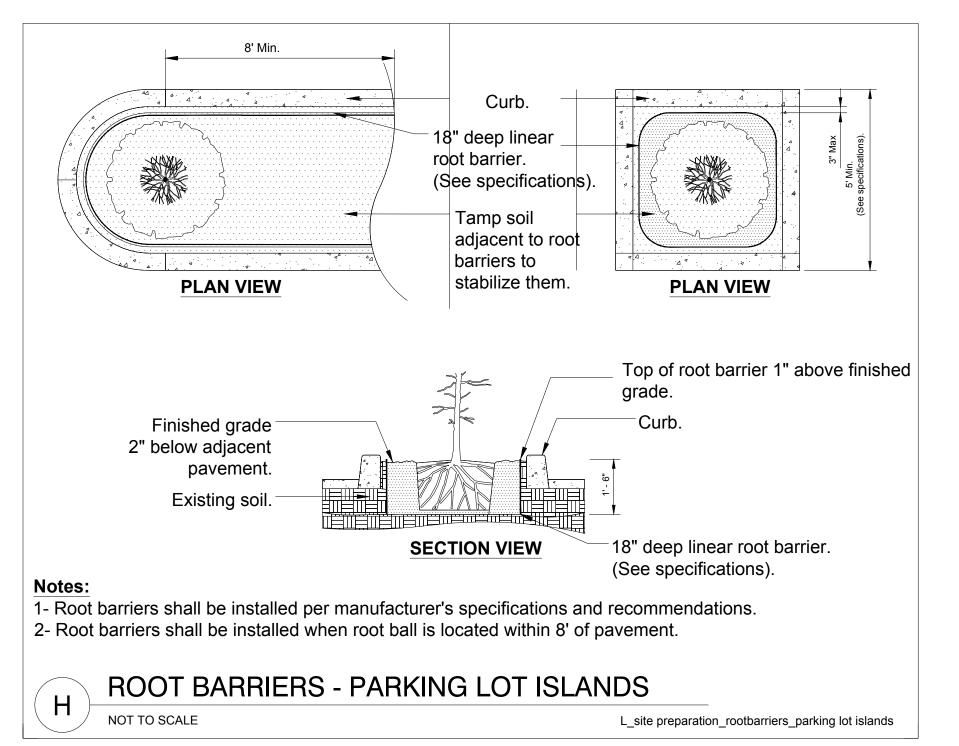


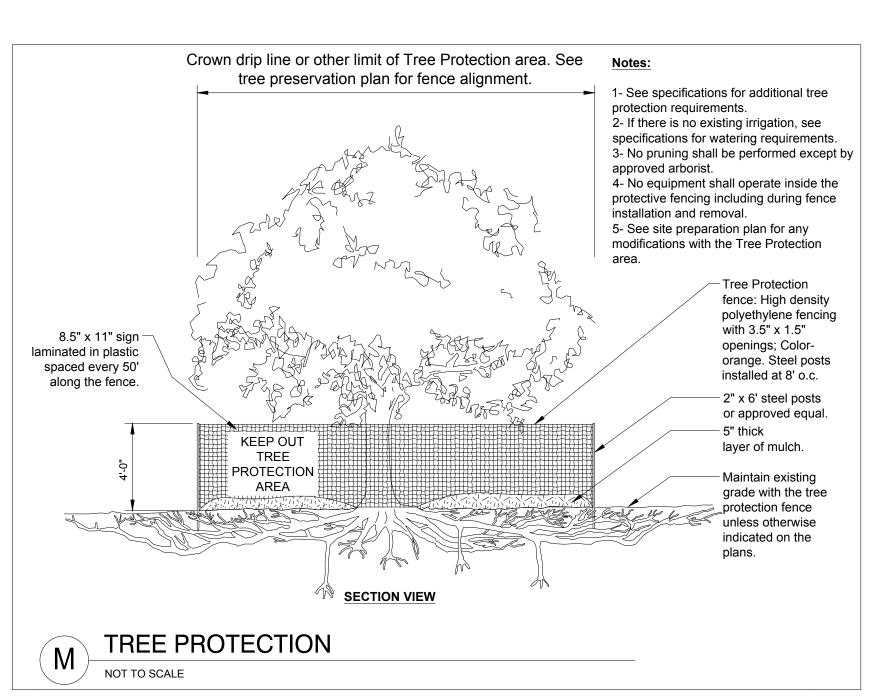






3X ROOT BALL SIZE

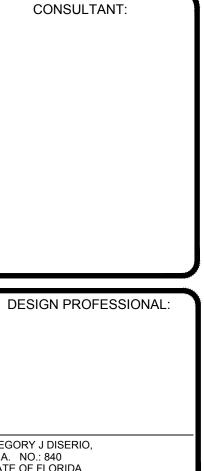




LANDSCAPE DETAILS



SHEET NUMBER



DAVID M. JONES, JR

AND ASSOCIATES, INC.

LANDSCAPE ARCHITECTS

AND PLANNERS

2221 McGregor Blvd.

Fort Myers, Florida 33901

Phone: (239) 337 - 5525

4161 Tamiami Trail, Bldg. 5,

Port Charlotte, Florida 33952

Phone: (941) 235 - 2217

Fax: (239) 337 - 4494

L.A. LICENSE: LC CO00063

PROJECT INFORMATION:

COLLIER EMS 74

GOLDEN GATE

COLLIER COUNTY, FL

PREPARED FOR:

DeLisi Fitzgerald, Inc.

Fort Myers, FL 33901

Ph: (239) 418-0691

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Email:

1605 Hendry Street

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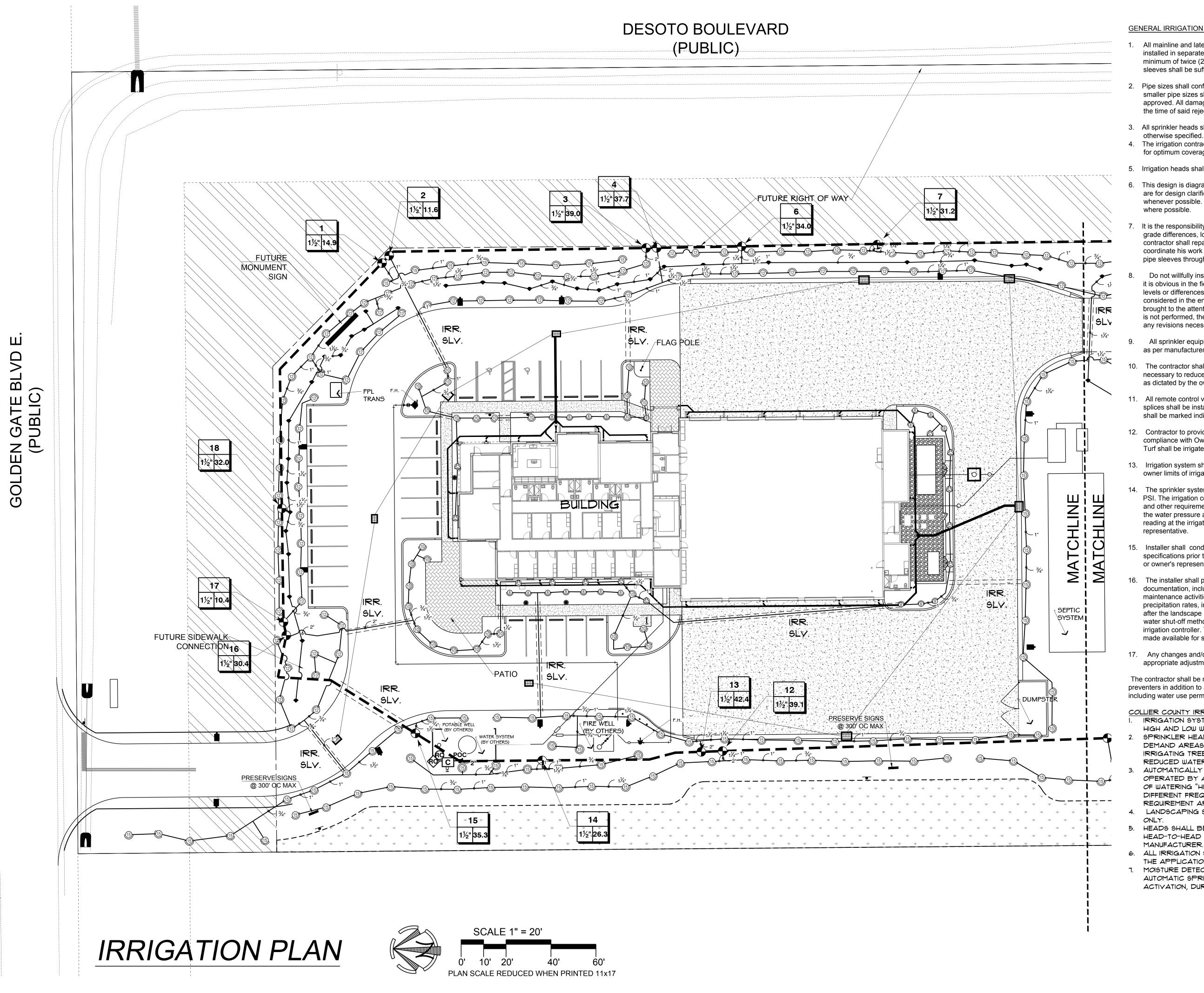
Unit 501

GREGORY J DISERIO, R.L.A. NO.: 840 STATE OF FLORIDA

PROJECT NO. 221039 PROJECT MJR: GREGORY J. DISERIO COLLIER EMS 74_LS FILE NAME: GJD DESIGNER: CAD TECH: GJD GJD CHECKED BY: SSUED FOR: BIDDING

ISSUED DATE: OCT. 6, 2021 JAN. 10, 2022 RAI RESPONSI FEB. 14, 2022 RAI RESPONSE APRIL 11, 2022 BIDDING /18/22 TEMP. R.O.W. PLANTING

> LANDSCAPE DETAILS



GENERAL IRRIGATION NOTES

- 1. All mainline and lateral line piping and control wires under paving shall be installed in separate sleeves. main and lateral line sleeves shall be a minimum of twice (2x) the diameter of the pipe to be sleeved. Control wire sleeves shall be sufficient size for the required number of wires under paving
- 2. Pipe sizes shall conform to those shown on the drawings. No substitutes of smaller pipe sizes shall be permitted but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of said rejection.
- 3. All sprinkler heads shall be set perpendicular to finished grade unless
- 4. The irrigation contractor shall flush and adjust all sprinkler heads and valves for optimum coverage with minimal overspray onto walks, streets, walls, etc.
- 5. Irrigation heads shall be a minimum of 12" from buildings.
- This design is diagrammatic. All piping, valves, etc. shown within paved areas are for design clarification only and shall be installed in planting areas whenever possible. The contractor shall locate all valves in shrub areas
- It is the responsibility of the irrigation contractor to familiarize himself with all grade differences, location of walls, structures and utilities. The irrigation contractor shall repair or replace all items damaged by his work. He shall coordinate his work with other contractors for the location and installation of pipe sleeves through walls, under roadways and paving, etc.
- Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences, water levels or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of owners representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.
- All sprinkler equipment not otherwise detailed or specified shall be installed as per manufacturer's recommendations and specifications.
- 10. The contractor shall provide (Pressure Compensating Screens) as necessary to reduce or eliminate over spray into streets, walks or other areas as dictated by the owner's authorized representative.
- All remote control valves, gate valves, quick couplers and control wire splices shall be installed in approved valve boxes with locking covers. All shall be marked indicating controller and station numbers for control valve.
- 12. Contractor to provide the Owner with a complete irrigation design in compliance with Owners program. All required plantings shall be irrigated. Turf shall be irrigated separately from shrub plantings.
- 13. Irrigation system shall be designed for complete coverage only. Verify with owner limits of irrigation prior to bidding.
- 14. The sprinkler system to br based on a minimum operating pressure of 30 PSI. The irrigation contractor shall verify water pressures, flows, elevations, and other requirements prior to construction. Report any differences between the water pressure and flows indicated on drawings and the actual pressure reading at the irrigation point of connection to the owners authorized
- 15. Installer shall conduct final testing and adjustments to achieve design specifications prior to completion of the system and acceptance by the owner or owner's representative.
- 16. The installer shall provide property owners and users with post-construction documentation, includingas-constructed drawings, recommended maintenance activities and schedules, operational schedule, design precipitation rates, instructions on adjusting the system to apply less water after the landscape is established, maintenance schedule, water source, water shut-off method, and the manufacturer's operation guide for the irrigation controller. To the extent feasible, similar information should be made available for subsequent property transfers.
- 17. Any changes and/or modifications to the water source shall require appropriate adjustments to the system design.

The contractor shall be responsible for providing all code required backflow preventers in addition to all permits as required by the governing agencies including water use permits.

COLLIER COUNTY IRRIGATION NOTE:

- IRRIGATION SYSTEMS SHALL BE DESIGNED FOR THE ZONING OF HIGH AND LOW WATER USE AREAS.
- SPRINKLER HEADS IRRIGATING LAWNS OR OTHER HIGH WATER DEMAND AREAS SHALL BE ZONED SEPARATELY FORM THOSE IRRIGATING TREES, SHRUBBERY, GROUND COVER, OR OTHER REDUCED WATER REQUIREMENT AREAS.
- AUTOMATICALLY CONTROLLED IRRIGATION SYSTEMS SHALL BE OPERATED BY AN IRRIGATION CONTROLLER THAT IS CAPABLE OF WATERING "HIGH WATER" REQUIREMENT AREAS AT DIFFERENT FREQUENCIES AND DURATION THAN "LOW WATER" REQUIREMENT AREAS.
- LANDSCAPING SHALL BE WATERED ON AN AS-NEEDED BASIS
- HEADS SHALL BE DESIGNED FOR 100 PERCENT HEAD-TO-HEAD COVERAGE, UNLESS SPECIFIED BY
- MANUFACTURER. 6. ALL IRRIGATION SYSTEMS SHALL BE DESIGNED TO ELIMINATE THE APPLICATION OF WATER ONTO IMPERVIOUS AREAS.
- MOISTURE DETECTION DEVICES SHALL BE INSTALLED IN ALL AUTOMATIC SPRINKLER SYSTEMS TO OVERRIDE THE CONTROL ACTIVATION, DURING PERIODS OF SUFFICIENT RAINFALL.



DAVID M. JONES, JR. AND ASSOCIATES, INC.

AND PLANNERS 2221 McGregor Blvd. Fort Myers, Florida 33901

LANDSCAPE ARCHITECTS

Phone: (239) 337 - 5525 Fax: (239) 337 - 4494 4161 Tamiami Trail, Bldg. 5,

Port Charlotte, Florida 33952 Phone: (941) 235 - 2217 Fax: (239) 337 - 4494 L.A. LICENSE: LC CO00063

PROJECT INFORMATION:

COLLIER EMS 74

COLLIER COUNTY, FL

GOLDEN GATE

PREPARED FOR: DeLisi Fitzgerald, Inc. 1605 Hendry Street

Fort Myers, FL 33901 Ph: (239) 418-0691

Fax: (239) 418-0692 john@delisifitzgerald.com

CONSULTANT:

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GREGORY J DISERIO, R.L.A. NO.: 840 STATE OF FLORIDA

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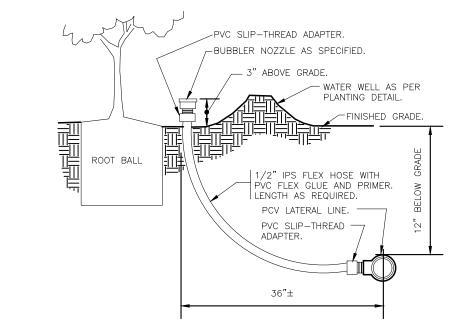
IRRIGATION PLAN AND GENERAL **NOTES**

BEFORE YOU DIG INTERNAL UTILITY EASEMENT - NO TREES OR LARGE SHRUBS SHALL BE PLANTED INSIDE THESE ZONES. IT'S THE LAW! ALL TREES IN ISLANDS ARE LOCATED OUTSIDE OF **DIAL 811** EASEMENT, MIN. 10' FROM BACK OF CURB

Know what's BELOV

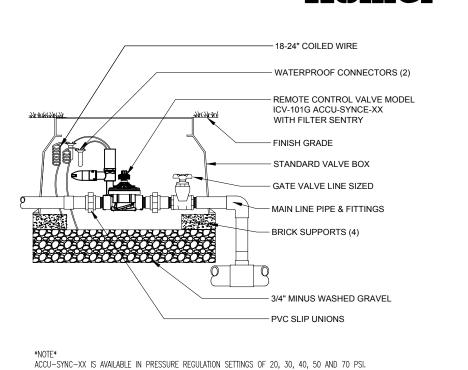
Hunter®

MODEL PROS-06 SPRAY HEAD -HUNTER 'PRO-FLEX' TUBING, HSBE-050 ELBOWS (2), & LATERAL TEE OR ELL -LATERAL PIPE -

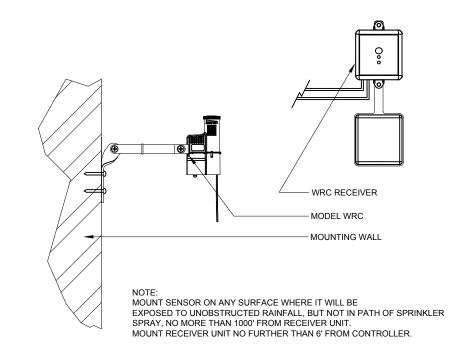


PROS-06 SPRAY HEAD WITH PRO-FLEX TUBING

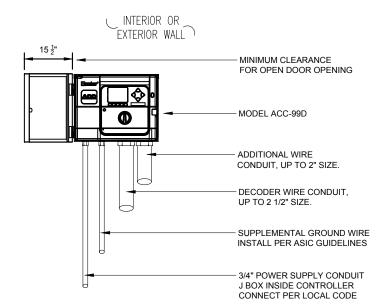
BUBBLER ON FLEX HOSE RISER

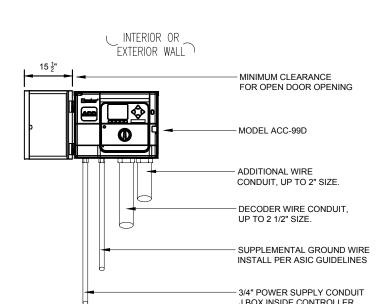


3 ICV 1" GLOBE VALVE WITH ISOLATION VALVE (3)



WIRELESS RAIN-CLIK





ACC-99D CONTROLLER WALL MOUNT



AND ASSOCIATES, INC

LANDSCAPE ARCHITECTS

AND PLANNERS 2221 McGregor Blvd. Fort Myers, Florida 33901

Phone: (239) 337 - 5525

Fax: (239) 337 - 4494

L.A. LICENSE: LC CO00063

4161 Tamiami Trail, Bldg. 5, Unit 501 Port Charlotte, Florida 33952 Phone: (941) 235 - 2217 ☐ Fax: (239) 337 - 4494

PROJECT INFORMATION:

COLLIER EMS 74 **GOLDEN GATE**

COLLIER COUNTY, FL

PREPARED FOR: DeLisi Fitzgerald, Inc. 1605 Hendry Street Fort Myers, FL 33901 Ph: (239) 418-0691 Fax: (239) 418-0692 john@delisifitzgerald.com

CONSULTANT:

DESIGN PROFESSIONAL

R.L.A. NO.: 840 STATE OF FLORIDA

PROJECT NO. 221039 PROJECT MJR: GREGORY J. DISERIC COLLIER EMS 74_LS FILE NAME: GJD DESIGNER: CAD TECH: CHECKED BY: ISSUED FOR:

BIDDING

SSUED DATE: OCT. 6, 2021 REVISIONS: JAN. 10, 2022 RAI RESPONSE FEB. 14, 2022 RAI RESPONSI APRIL 11, 2022 BIDDING /18/22 TEMP. R.O.W. PLANTING

IRRIGATION MASTER PLAN, **DETAILS & NOTES**

BEFORE YOU DIG IT'S THE LAW! **DIAL 811**

0.24

3.75 15' 1.86 15'

2.00 360

Hunter ICV-G 1-1/2" Hunter ACC-99D Hunter ROAMXL-KIT

MANUFACTURER/MODEL

Hunter PROS-06 8` radius

Hunter PROS-06 8` radius

Hunter PROS-06 10` radius

Hunter PROS-06 10` radius

Hunter PROS-06 12` radius

Hunter PROS-06 15` radius

Hunter PROS-06 15` radius

Hunter PROS-04-MSBN 10F

Hunter PROS-04-MSBN 20F

MANUFACTURER/MODEL

Hunter PROS-06 5` strip spray

Hunter WR-CLIK Point of Connection 2" Irrigation Lateral Line: PVC Class 200 SDR 21

Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"

Irrigation Lateral Line: PVC Class 200 SDR 21 1" Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"

Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/2"

Irrigation Lateral Line: PVC Class 200 SDR 21 2"

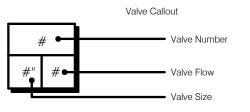
—— Irrigation Mainline: PVC Class 200 SDR 21 2"

—— Irrigation Mainline: PVC Class 200 SDR 21 2"

—— —— Irrigation Mainline: PVC Class 200 SDR 21 2" — — Irrigation Mainline: PVC Class 200 SDR 21 2"

--- --- Irrigation Mainline: PVC Class 200 SDR 21 2"

_____ Pipe Sleeve: PVC Class 200 SDR 21



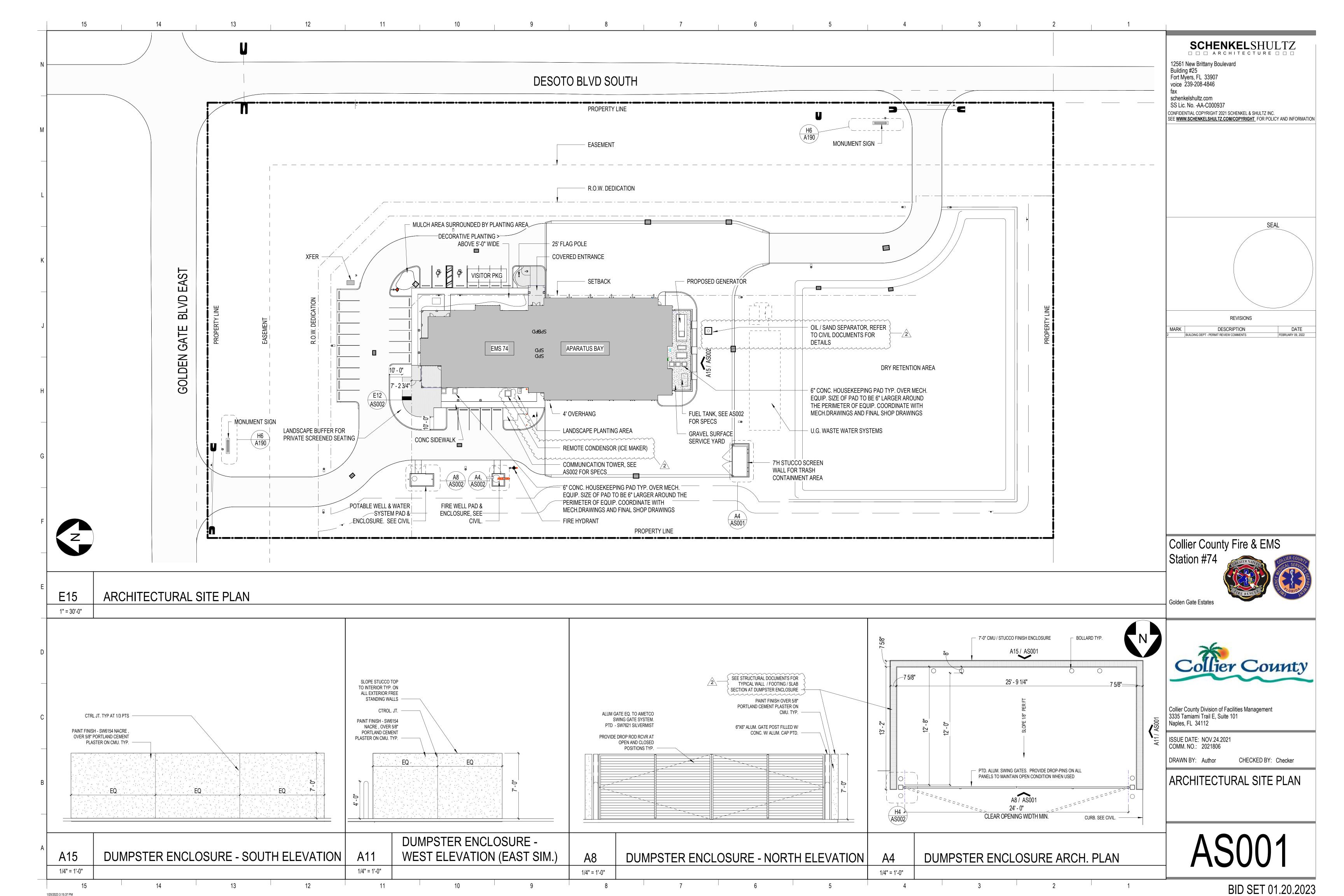
PIPE SIZING CHART

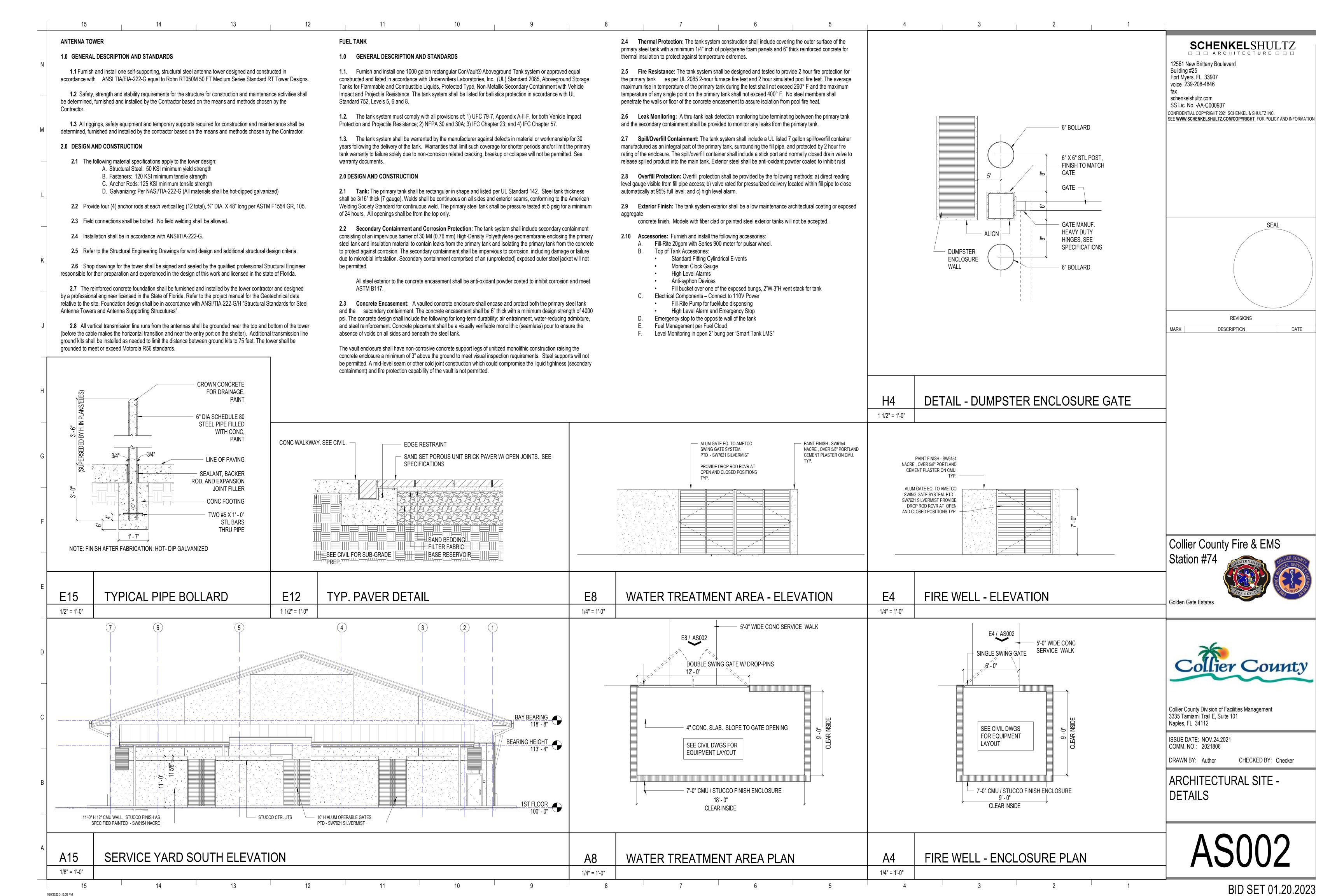
	GPM	SIZE
	0-10	3/4"
	11-16	1"
200	17-26	1-1/4"
SS 2	27-36	1-1/2"
CLASS	37-55	2"
S	56-80	2-1/2"

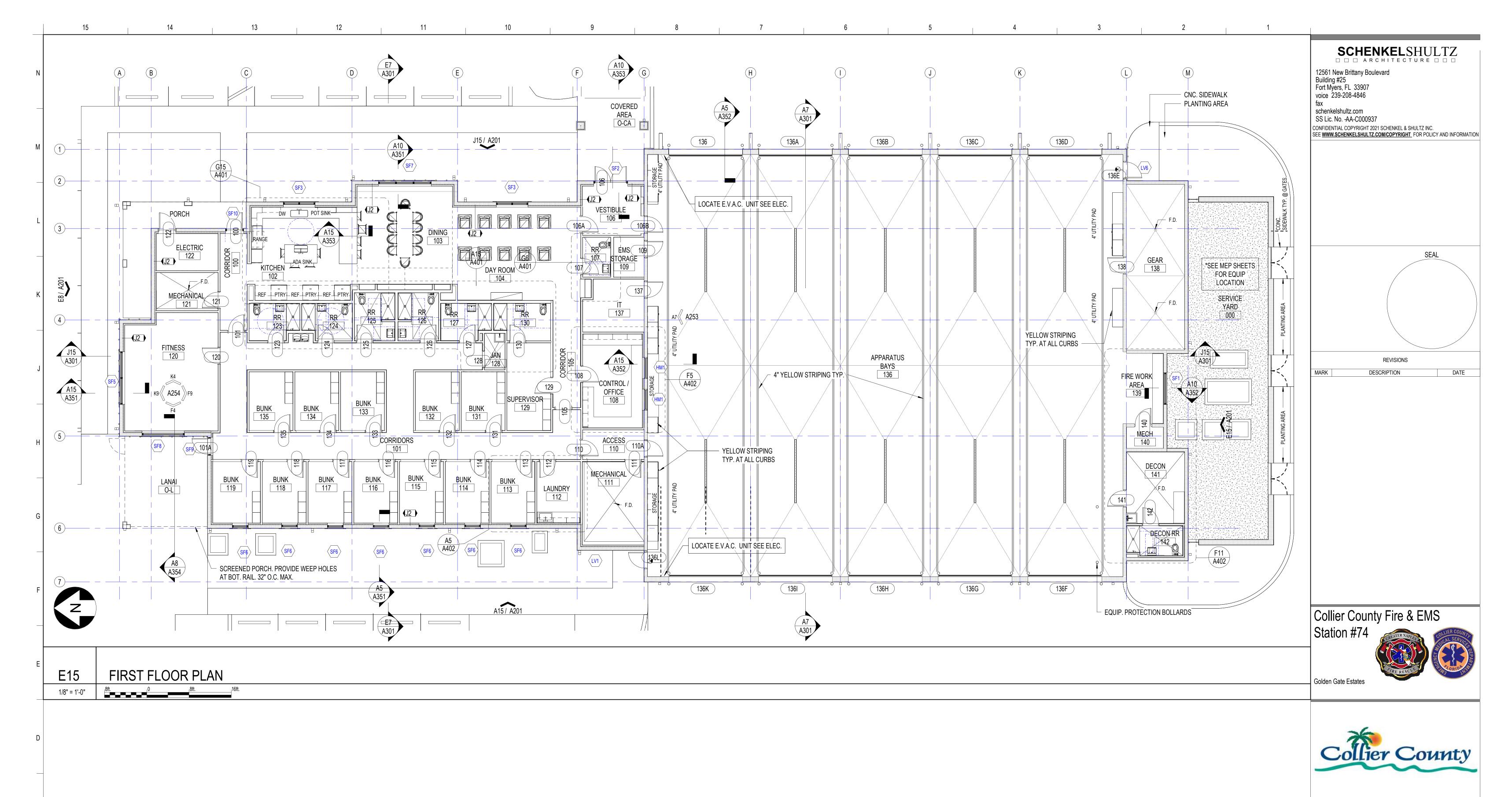
	GPM	SIZE
	1-8	3/4"
0	9-13	1"
E 4	14-22	1-1/4"
SCHEDULE 40	23-30	1-1/2"
HEL	31-50	2"
SC/	51-70	2-1/2"

Flows shall maintain velocities of less than 5 feet per second

IRRIGATION LEGEND IS PRELIMINARY ONLY. FINAL QUANTITIES PER FINAL IRRIGATION DESIGN BASED ON VERIFICATION OF WATER SOURCE AND PRESSURES.







Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

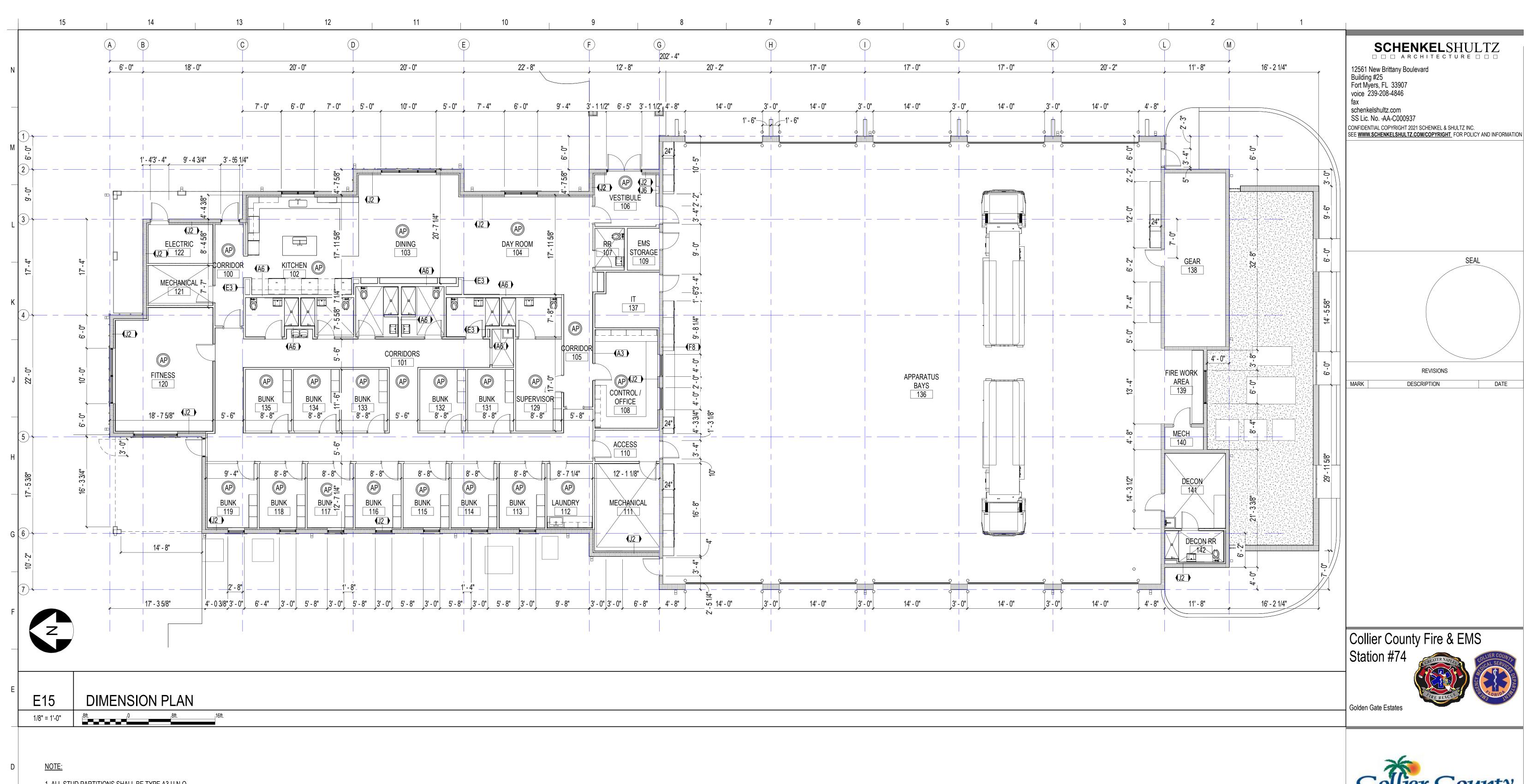
ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

DRAWN BY: PLH

BY: PLH CHECKED BY: GFK

FIRST FLOOR PLAN

A101



- 1. ALL STUD PARTITIONS SHALL BE TYPE A3 U.N.O.
- 2. REFER TO SHEETS G202 FOR TYPICAL PARTITION TYPES. 3. REFER TO SHEETS G201 & G302 FOR TYPICAL PARTITION DETAILS
- 4. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN GRID, OR FACE OF CMU.
- 5. PROVIDE FULL HEIGHT CEMMENTITIOUS PANEL AT WET AREAS.
- 6. REFER TO SHEETS G201 FOR GYPSUM BD SCHEDULE AND INSULATION SCHEDULE.
- 7. REFER TO ELEVATION SHEETS A201 & A501 FOR ALL WINDOWS TYPE AND LOCATIONS.



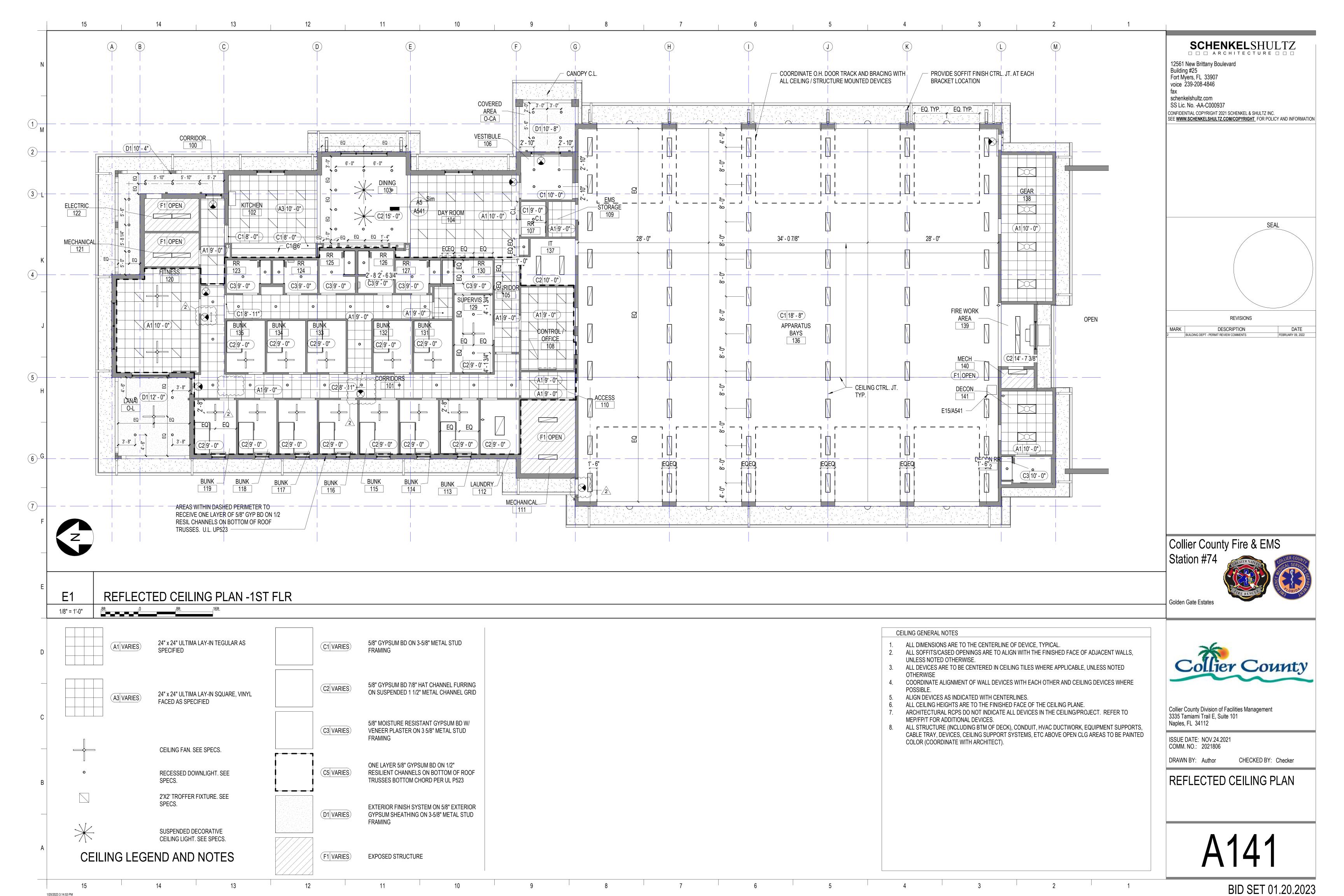
Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

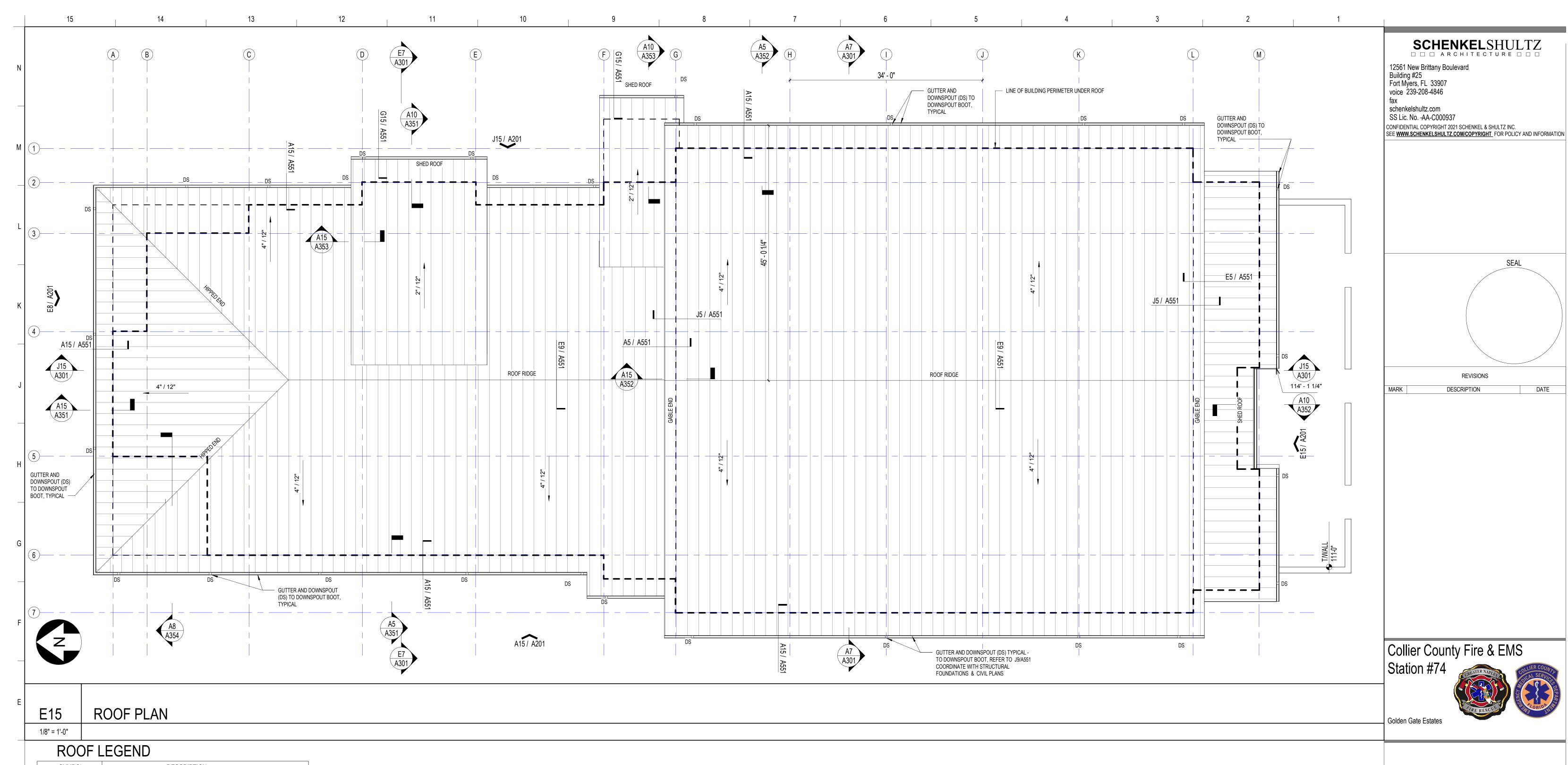
ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

DIMENSION PLAN

BID SET 01.20.2023

CHECKED BY: Checker





DESCRIPTION SYMBOL 6"x6" GUTTER WITH 6" SQUARE DOWNSPOUT -─**─**G/DS SEE TYPICAL DETAILS SHEETS <u></u> M.P. MECHANICAL EQUIP SAFETY PLATFORM CRICKET - SLOPED TO DRAIN AT 1/2" PER FT. TO PROVIDE POSITIVE DRAINAGE TO ROOF DRAINAGE SYSTEM STANDING SEAM METAL ROOF SYSTEM (R19 MIN.) ON METAL DECK ON PRE ENGINEERED METAL ROOF TRUSSES TOP OF WALL SEE STRUCT. AND EXTERIOR ELEVATIONS

GENERAL NOTES:

- PROVIDE MANUF. STANDARD DETAILS FOR ROOF PENETRATIONS
- PROVIDE CONCRETE SPLASH BLOCKS WHERE DOWNSPOUTS DISCHARGE ONTO GRADE
- COORDINATE WALL MTD. ITEMS WITH EXTERIOR ELEVATIONS.
- ALL GUTTER AND DOWNSPOUTS BY PEMB MANF. COORDINATE WITH CIVIL AS NECESSARY. CONDUCTOR HEAD/DOWNSPOUT LOCATIONS TO BE COORDINATED WITH EXTERIOR ELEVATIONS.
- REFER TO A-550 SERIES DRAWINGS FOR ROOF DETAILS. REFER TO WALL SECTIONS & DETAILS FOR ADDITIONAL ROOF DETAILING.
- DRAINAGE CALCULATIONS: MAX ROOF DRAIN AREA PER DOWNSPOUT IS 1,575 SF. WITH 4.5 MAX. HOURLY RAINFALL (INCHES) (1,575 X .047 = 74) FBC PLUMBING 1106.1. PROPOSED DOWNSPOUTS ARE 6"X6" WITH 36 SQ.IN. AREA / 563 GPM

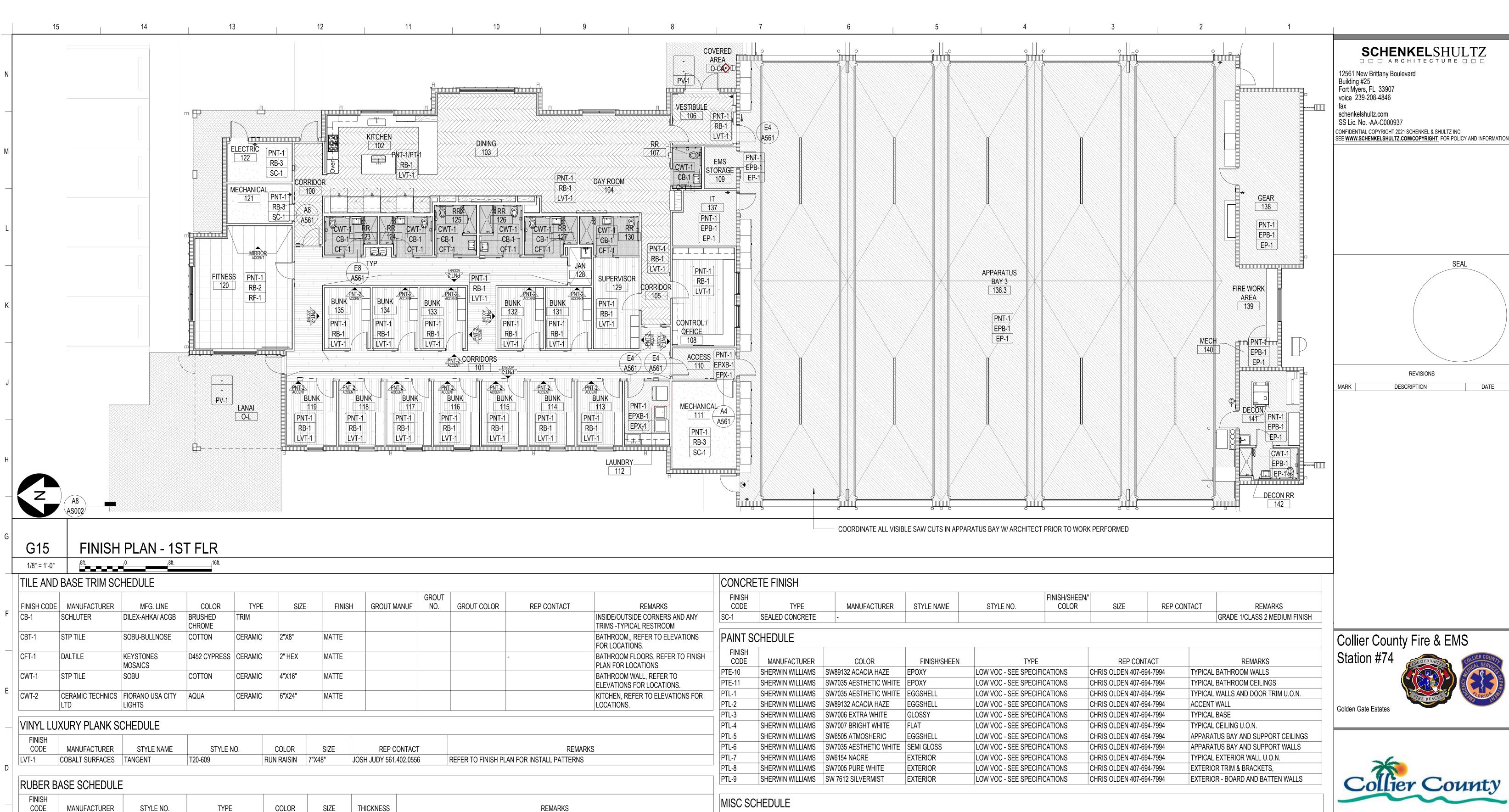


Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

CHECKED BY: Checker

ROOF PLAN



FINISH

FINISH

CODE

FINISH

CODE

WD-1

WD-2

SS-1

PAVERS

FLOORING (FITNESS)

SOLID SURFACES SCHEDULE

WILSONART

WILONART

WOOD SCHEDULE

MANUFACTURER

MANUFACTURER

TYPICAL U.O.N. REFER TO FINISH PLANS FOR LOCATIONS.

REFER TO FINISH PLANS FOR LOCATIONS. (FITNESS RM)

TYPICAL MECH/ JANITOR REFER TO FINISH PLANS FOR LOCATIONS.

REMARKS

REMARKS

WATER PROOF PRIMER, 2 COATS OF EPOXY, A BROADCAST OF POLYMER FLAKE, AND A

URETHANE TOPCOAT (CHEM-THANE P-100 BY ROCK*TRED)

-REFER TO DRAWINGS FOR LOCATIONS

-REFER TO DRAWINGS FOR LOCATIONS

-REFER TO DRAWINGS FOR LOCATIONS

-REFER TO DRAWINGS FOR LOCATIONS- CHEMSURF FINISH

MANDALAY 6"

TRADITIONAL 4"

TRADITIONAL 4"

MFG. LINE

STYLE NO.

PRODUCT TYPE:390 /STYLE | FLAX LINEN

SG240-THRUCOLOR

7981K

4990

EPOXY FLOOR COATING Z-POXY

EPOXY FLOOR COATING Z-POXY

VINYL

VINYL

VINYL

TBD

TBD

TBD

COLOR

FINISH/SHEEN

TEXTURED/SUEDE

TBD (USE

TBD (USE

ROCK.TREAD)

ROCK.TREAD)

STYLE NO.

COLOR

MOSS GRAY

FLAX LINEN

LANDMARK WOOD

THICKNE

SS

SEE

SPEC

SEE

SPEC

REP CONTACT

REP CONTACT

MEGHAN RAWLINS 407-832-5388

MEGHAN RAWLINS 407-832-5388

MEGHAN RAWLINS 407-832-5388

JOHNSONITE

JOHNSONITE

JOHNSONITE

FINISH CODE

CODE

EPOXY FLOORING SCHEDULE

MANUFACTURER

JAM FLOORING

JAM FLOORING

PLASTIC LAMINATE SCHEDULE

PIONITE

WILSONART

WILSONART

WILSONART

MANUFACTURER

FINISH/SHEEN/'CO

LOR

GRAY TONES 827

SIZE

3CM

COLOR

SW6208 PEWTER

GREEN

MATCH PL-2

SIZE

REP CONTACT

SIZE

REP CONTACT

REMARKS

REFER TO CIVIL DRAWINGS

REMARKS

REMARKS

KITCHEN ISLAND AND INTERIOR DOORS - MATCH PL-2

TYPICAL WINDOW SILLS. REFER TO DRAWINGS FOR LOCATIONS

FITNESS ROOM

-REFER TO DRAWINGS FOR LOCATIONS

KITCHEN CABINETS, U.O.N.

STYLE NAME

TYPE

RESET

MFG. LINE

MANUFACTURER

MANNINGTON

STYLE NO.

COLOR

SOLID SURFACE DESIGNER WHITE D354SL

SPECIES

SOLID SURFACE | CLOUD MIST 9243SS

WHITE OAK



DATE

Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

CHECKED BY: Checker

FINISH PLAN AND FINISH SCHEDULE



		EQUIPI	MENT SCHEDUL	E			
MARK	DESCRIPTION	MANUFACTURER	MODEL/ ITEM#	COMMENTS	CONTRACTOR INSTALL	CONTRACTOR SUPPLY	OWNER SUPPLY
	<varies></varies>	<varies></varies>	<varies></varies>				
E-01	SIDE BY SIDE REFRIGERATOR	G.E.	GSS25IYNFS	FINGER PRINT RESISTANT	Yes	Yes	No
E-02	ELECTRIC COOKTOP	VIKING	RVEC336-5B	36" W / 5 BURNER	Yes	Yes	No
E-03	FIRE SUPPRESSION RANGE HOOD SYSTEM	SEE MECHANICAL DRAWINGS	SEE MECH.		Yes	Yes	No
E-03.1 ALT	DUCTED RANGE HOOD (ALTERNATE)	BROAN	403604	TWO-SPEED DUCTED	Yes	Yes	No
E-03.2 ALT	WET CHEMICAL EXTINGUISHER UNIT (ALTERNATE)	GSSI	I 384-B	EXTINGUISHER, BRACKET KIT, PIPING KIT AND DETECTION KIT	Yes	Yes	No
E-04	BUILT-IN DISHWASHER	G.E.	GDT226SSLSS		Yes	Yes	No
E-05	1 HP FOOD WASTE DISPOSER	INSINKERATOR	EVOLUTION EXCEL		Yes	Yes	No
E-05A	3/4 HP DISPOSER	INSINKERATOR	EVOLUTION SEPTIC ASSIST	BID ALTERNATE	Yes	Yes	No
E-06A	BUILT-IN MICROWAVE / CONVECTION OVEN	G.E.	PT7800SHSS	30" BUILT-IN COMBO	Yes	Yes	No
E-06B	1.1 CF MICROWAVE OVEN WITH TRIM KIT	G.E.	PEM31SFSS	BUILT-IN, ADA MTG.	Yes	Yes	No
E-07	AIR COOLED ICE MAKER W/ BIN	MANITOWOC ICE	IYT0500A-161 /D-570	INDIGO NXT SERIES	Yes	Yes	No
E-08A	WASHER - GE 4.6 CU. FT. CAPACITY	G.E.	GTW725BPNDG	FLEX DISPENSE	Yes	Yes	No
E-08B	DRYER - GE® 7.4 CU. FT. CAPACITY	G.E.	GTD72EBPNDG	SMART ALUMINIZED ALLOY DRUM GAS DRYER WITH SANITIZE CYCLE AND SENSOR DRY	Yes	Yes	No
E-09	COMMERCIAL WASHER EXTRACTOR	PELLERIN MILNOR CORP	30022 VRJ	STEAM & 3 COMPARTMENT FLUSHING SUPPLY INJECTOR	Yes	Yes	No
E-10	MTL ROLLER SHADE POCKET - MANUAL SHADE	Lutron Electronics Co., Inc	SHEERWEAVE 7600	BLACK-OUT SHADES	<varies></varies>	<varies></varies>	No
E-11	WALL MOUNTED EYE AND FACE WASH SYSTEM	SPEAKMAN	SE-1050-SPV	P-TRAP (PT) AND THERMOSTATIC MIXING VALVE (STW)	Yes	Yes	No
E-12	FIRE HOSE CABINET STORAGE SHELVING RACK	FIRE HOSE STORAGE	SMS-63-FH3618	36" W x 18"D x 76"H	Yes	Yes	No

MARK	DESCRIPTION	MANUFACTURER	MODEL/ ITEM#	COMMENTS	CONTRACTOR INSTALL	CONTRACTOR SUPPLY	OWNER
-13	BREATHING AIR MODULE	MAKO	MODULAR BAC JS2 2 BOTTLE RACK	BAM07HE3 COMPRESSOR, SSCFS3-4HP THREE POSITION CONTAINMENT FILL STATION, HC-60-4W 6000 PSI 4 BOTTLE 2036CF BREATHING AIR STORAGE SYSTEM	Yes	Yes	No
-14	QP SERIES VERTICAL COMPRESSOR	QUINCY	3103DS12VCA23	10 HP PHASE 3 VERTICAL QP-10	Yes	Yes	No
-14A	REFRIGERATED AIR DRYER	QUINCY	QRHT50		Yes	Yes	No
-15	DUAL PEDESTAL HOSE REEL	REELCRAFT	82075OLP	LOW PRESSURE AIR / WATER	Yes	Yes	No
-17	AIR GEAR DRYER	DRY GEAR SOLUTIONS	PS-5AM	2 SETTING AIR MANAGEMENT SYSTEM	Yes	Yes	No
-18	RED POWDER-COAT TURNOUT GEAR STORAGE RACK	GROVES	RRWM-#3/20	WALL MOUNT 20"Hx20"Wx72"D	Yes	Yes	No
-20	STEEL BUNK BEDS	WORKING FIRE FURNITURE AND MATTRESS CO., INC	TWIN - EXTRA LONG	WITH GUARDRAILS AND MATTRESSES	Yes	Yes	
-21	STEEL BED - SUPERVISOR	WORKING FIRE FURNITURE AND MATTRESS CO., INC	TWIN - EXTRA LONG	WITH MATTRESSES	Yes	Yes	
-25	60" W x 80" H MIRROR	SEE SPECS			Yes	Yes	No
-26	FIRE EXTINGUISHER & WALL BRACKET	SEE SPECS			<varies></varies>	<varies></varies>	No
-27	SEMI-RECESSED CABINET & FIRE EXTINGUISHER	Generic	Generic	SEE SPECS FOR MANUF AND MODEL	Yes	Yes	No
-28	STAINLESS STEEL WORKTABLE WITH SINK - RIGHT	ULINE	H-8966R	60" X 30"			No
-29	AED CABINET	Activar Construction Products Group	1400 SERIES		Yes	Yes	No
-41	ELLIPTICAL MACHINE	OWNER PROVIDED AND INSTALLED			No	No	Yes
-42	STATIONARY BIKE	OWNER PROVIDED AND INSTALLED			No	No	Yes
-43	TREADMILL	OWNER PROVIDED AND INSTALLED			No	No	Yes
-44	LEG EXTENSION	OWNER PROVIDED AND INSTALLED			No	No	Yes
-45	DUMBELL RACK	OWNER PROVIDED AND INSTALLED			No	No	Yes
-47	BARBELL RACK	OWNER PROVIDED AND INSTALLED			No	No	Yes







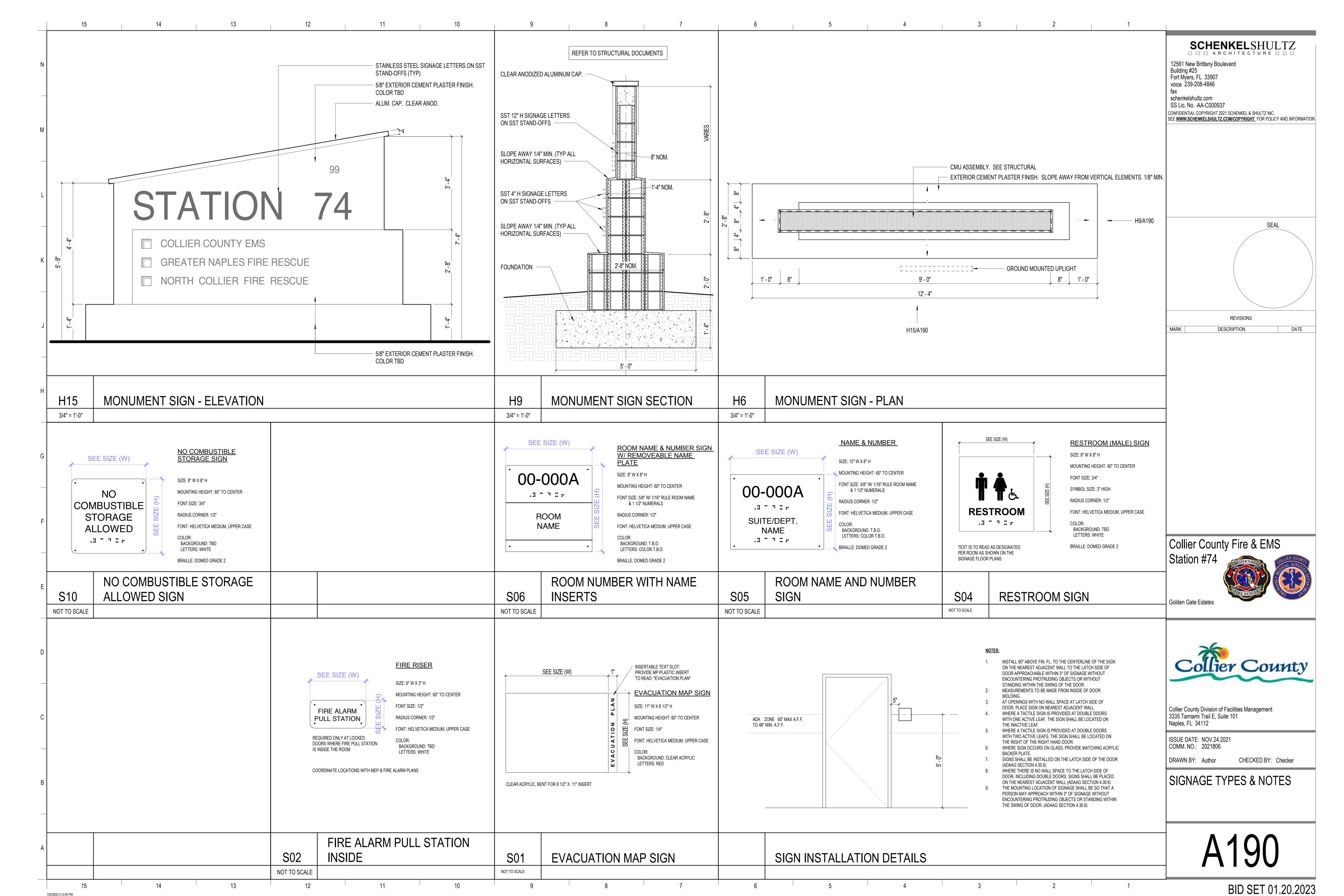
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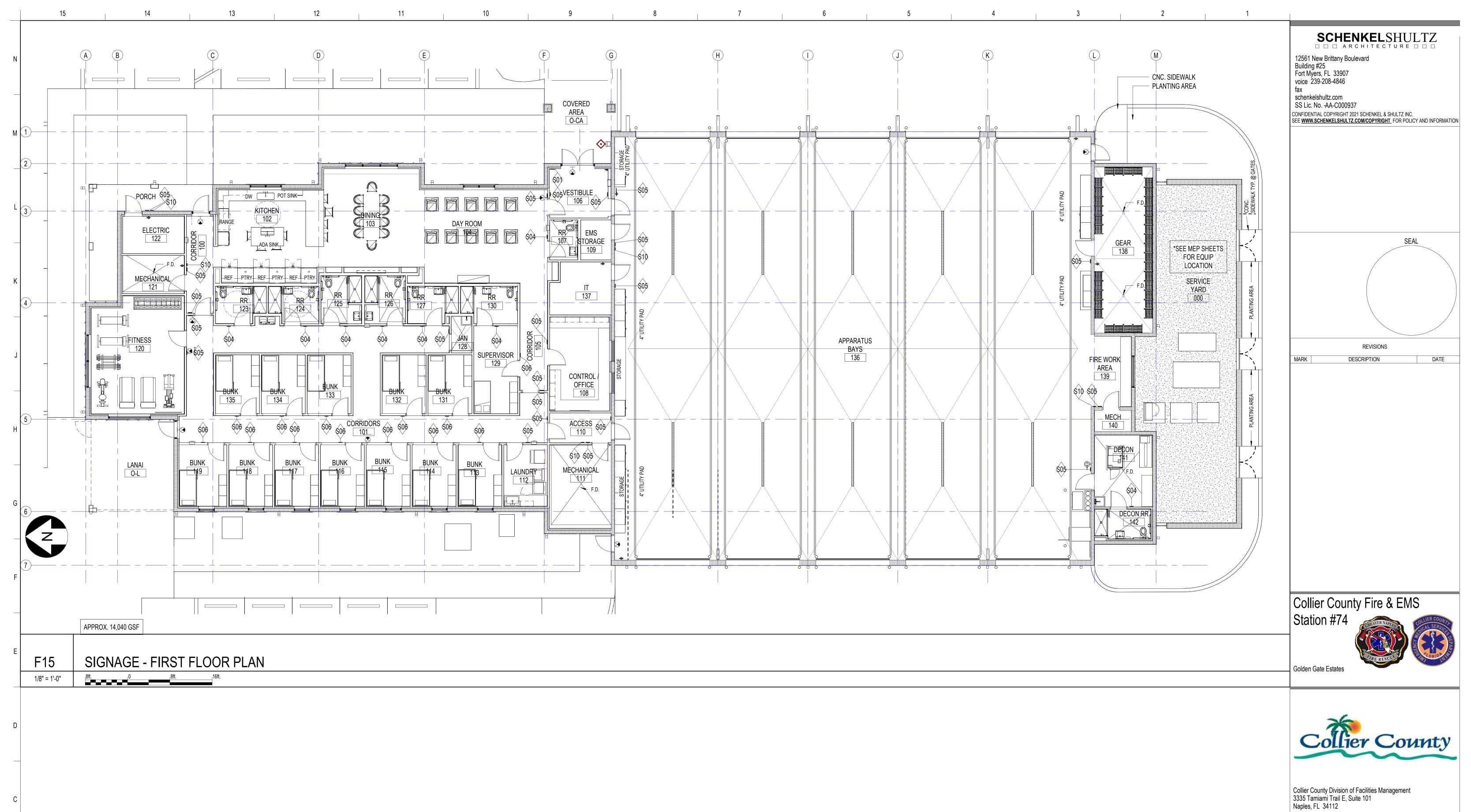
ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

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EQUIPMENT PLAN

A171

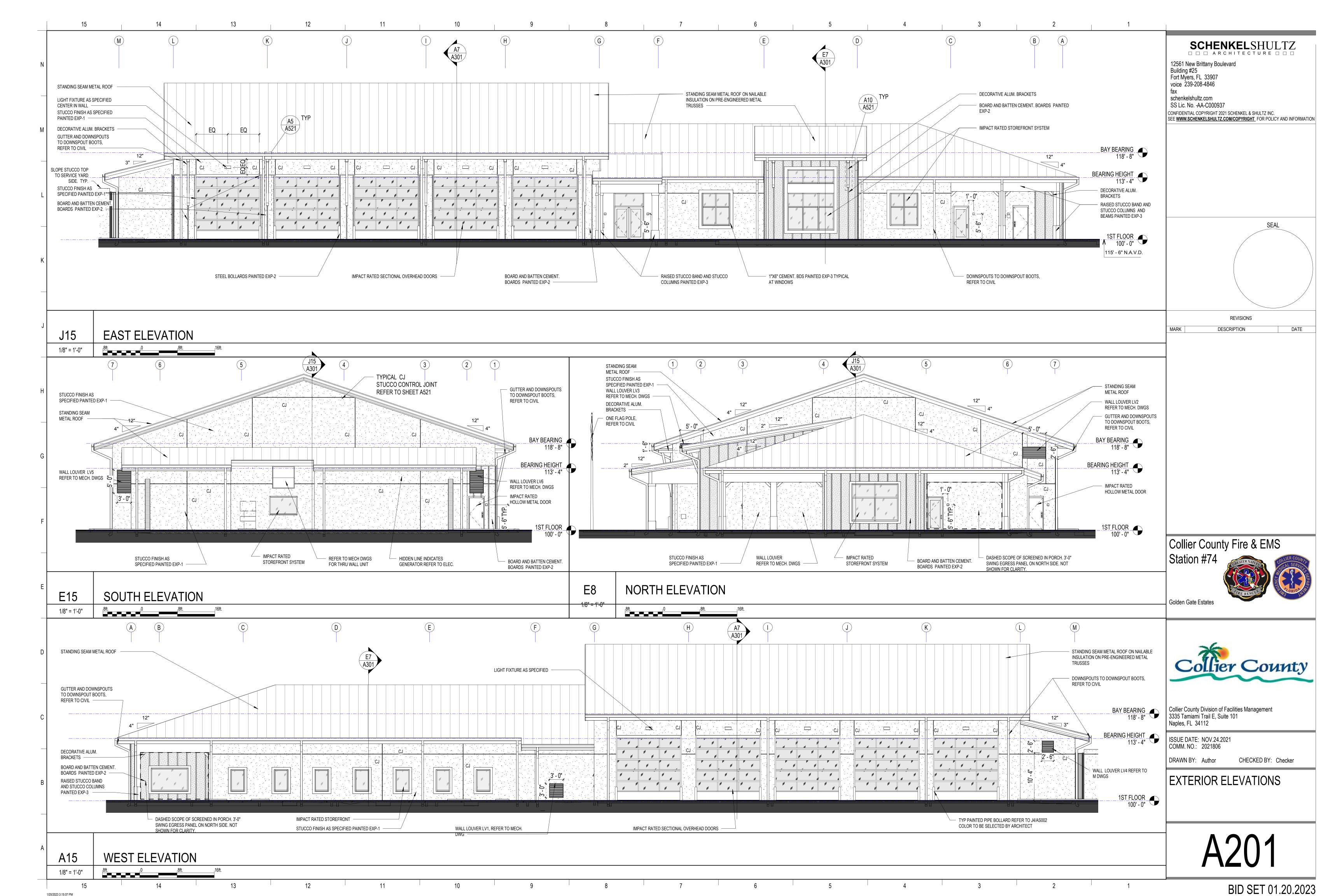


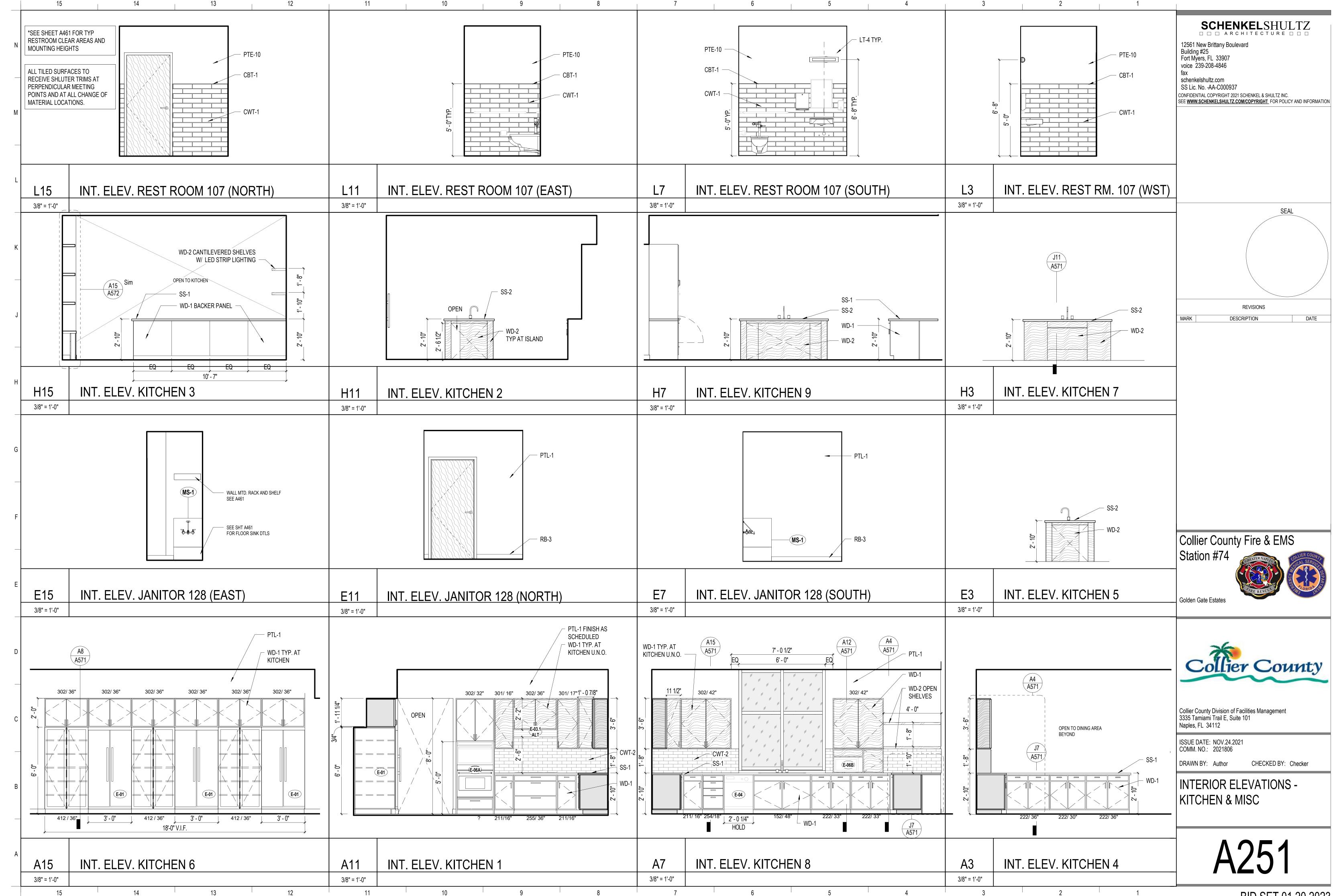


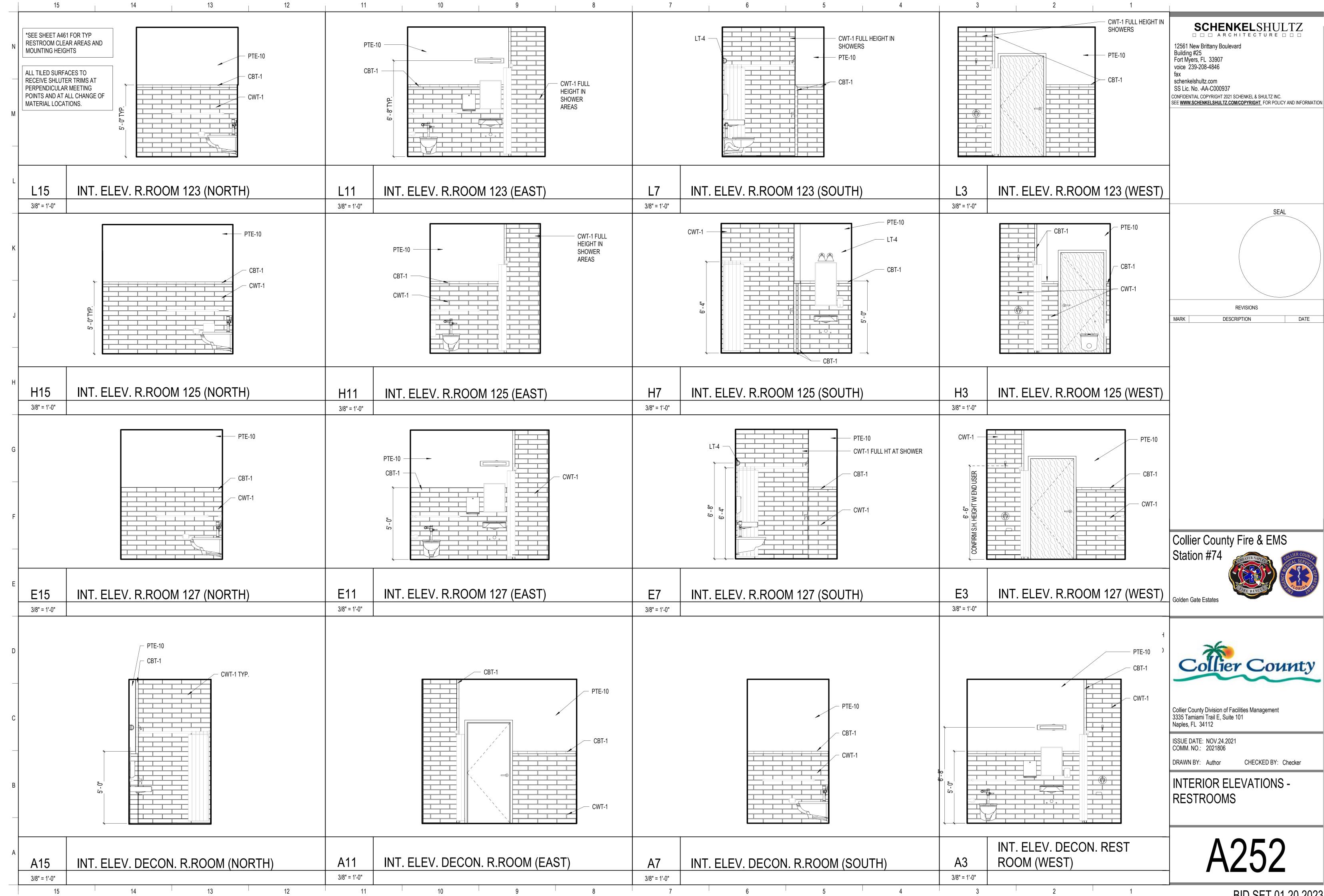
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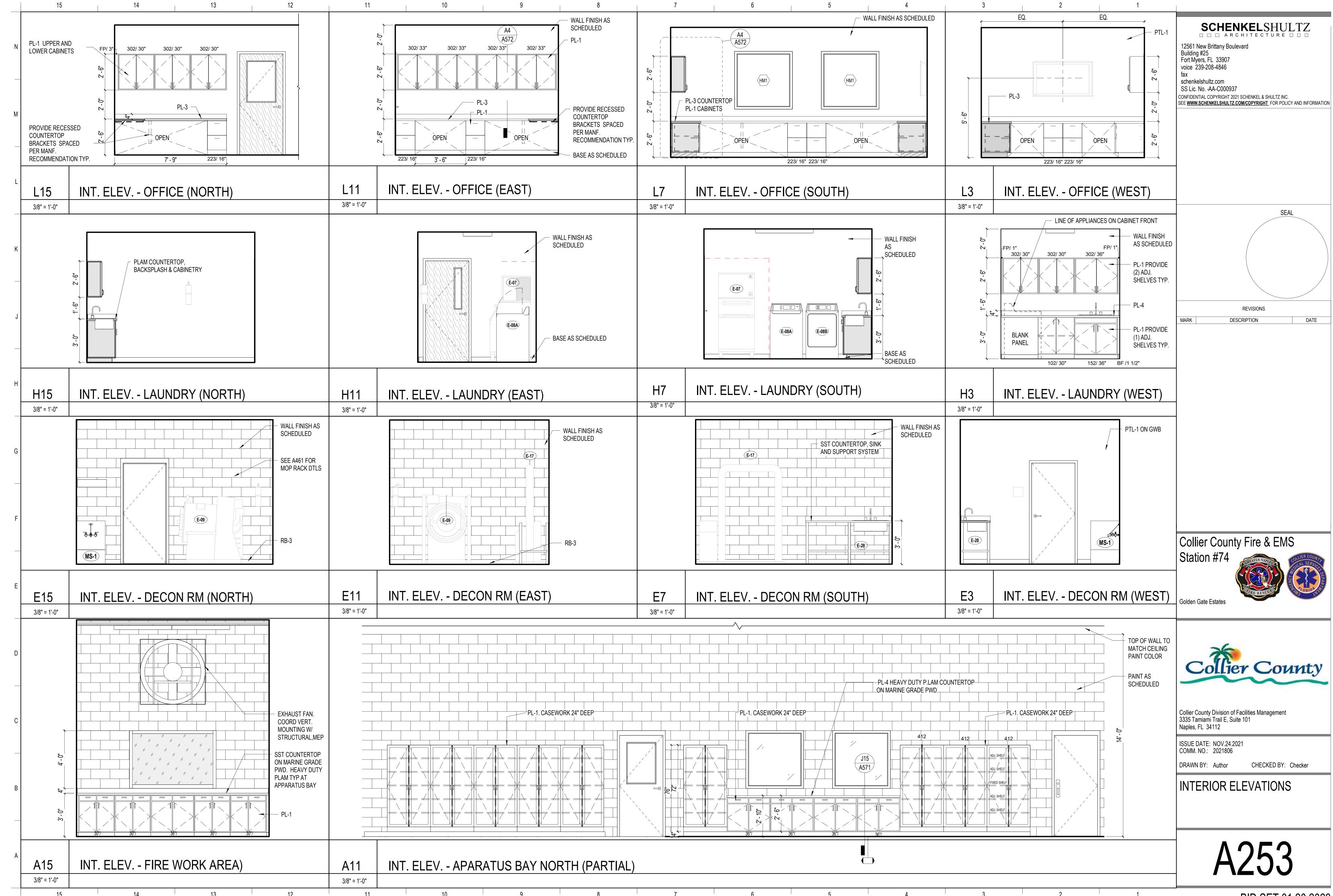
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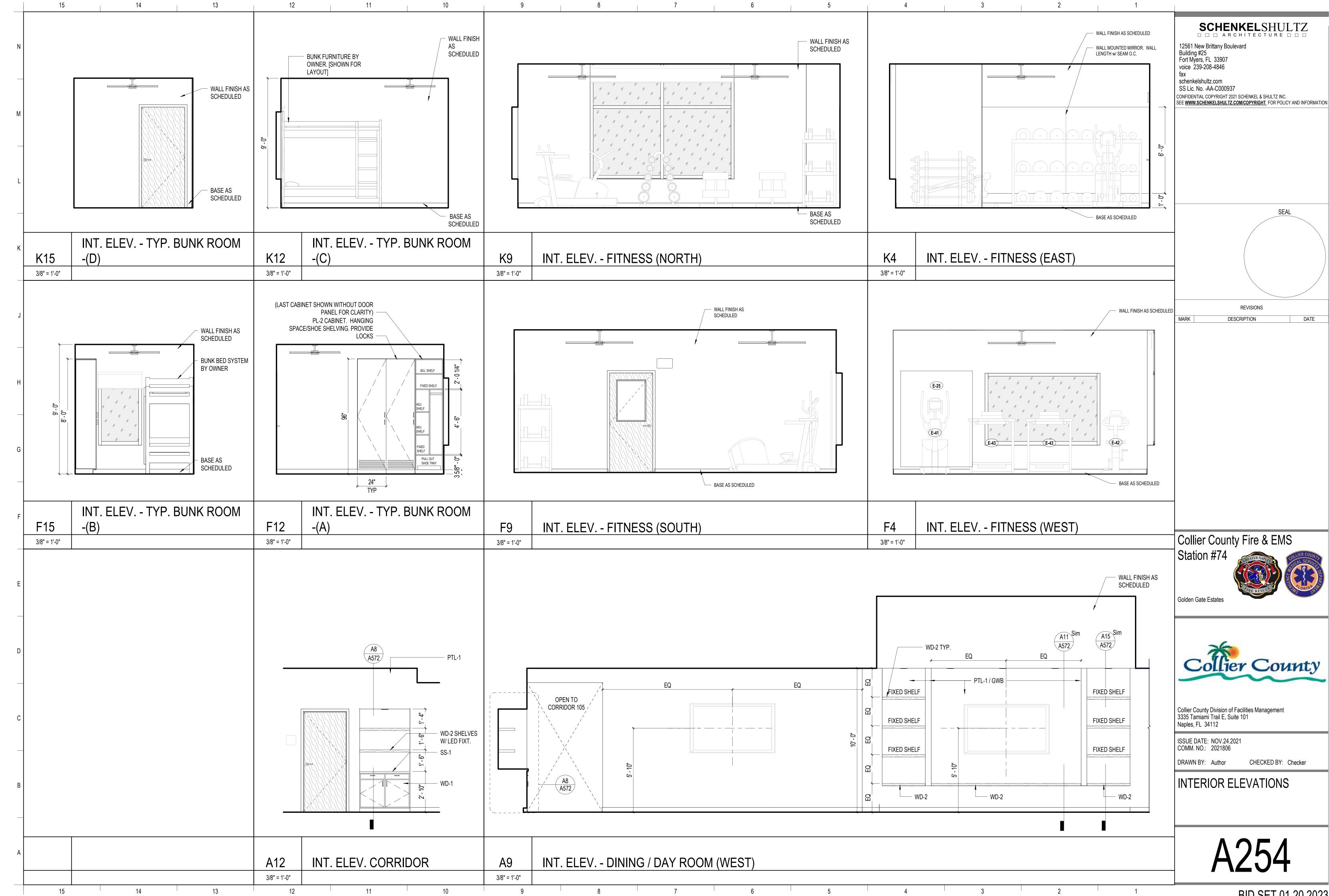
SIGNAGE PLAN

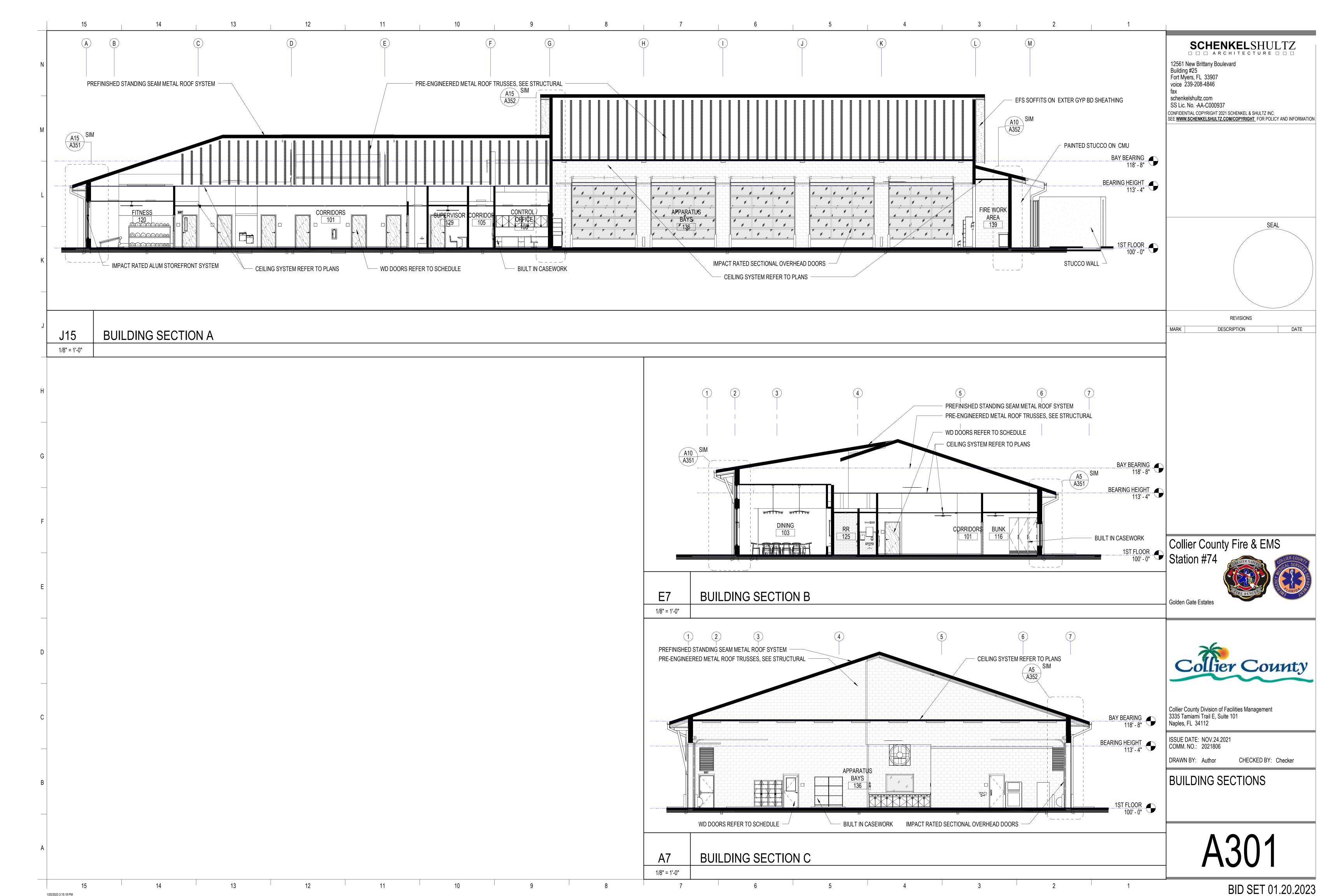


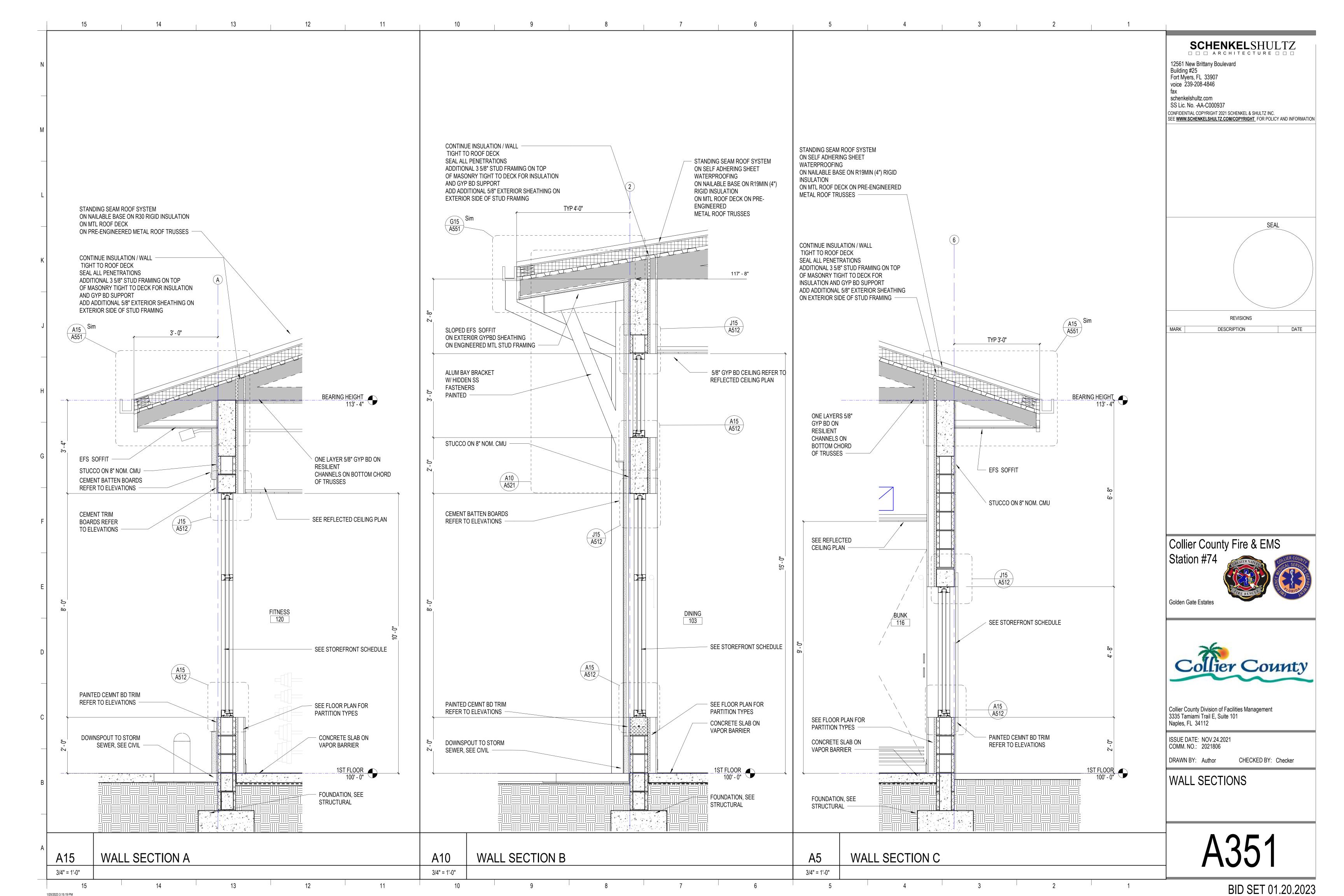


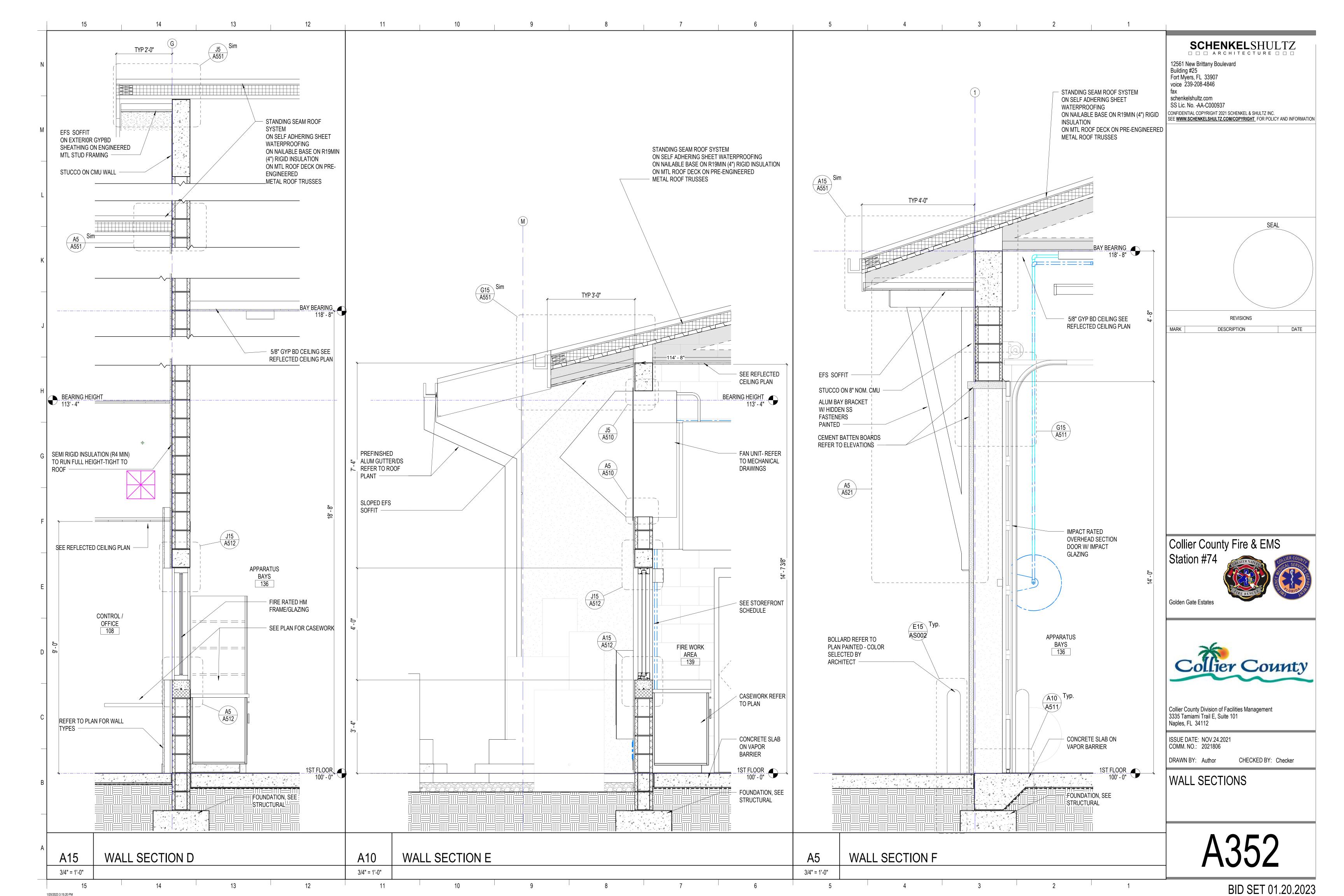


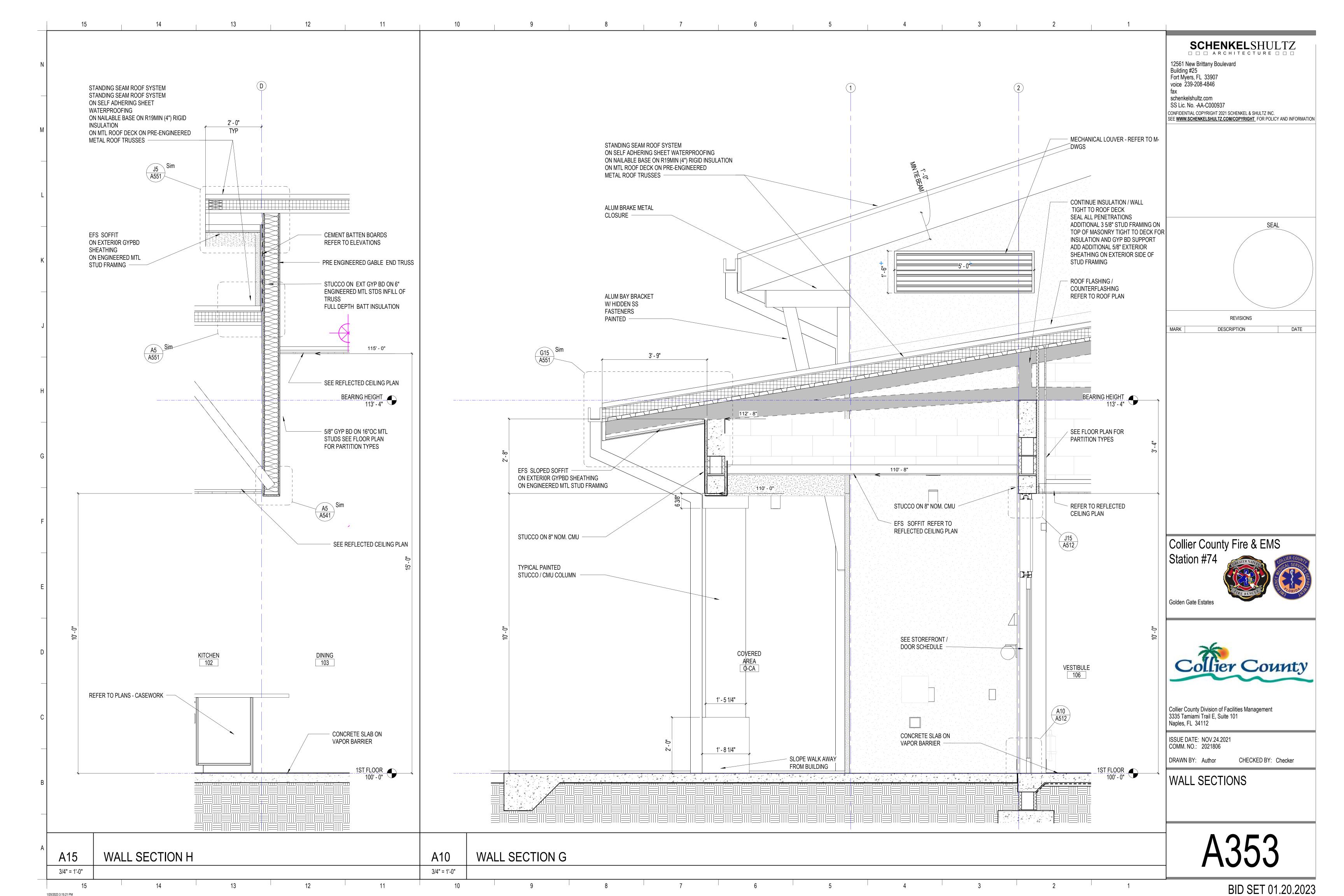


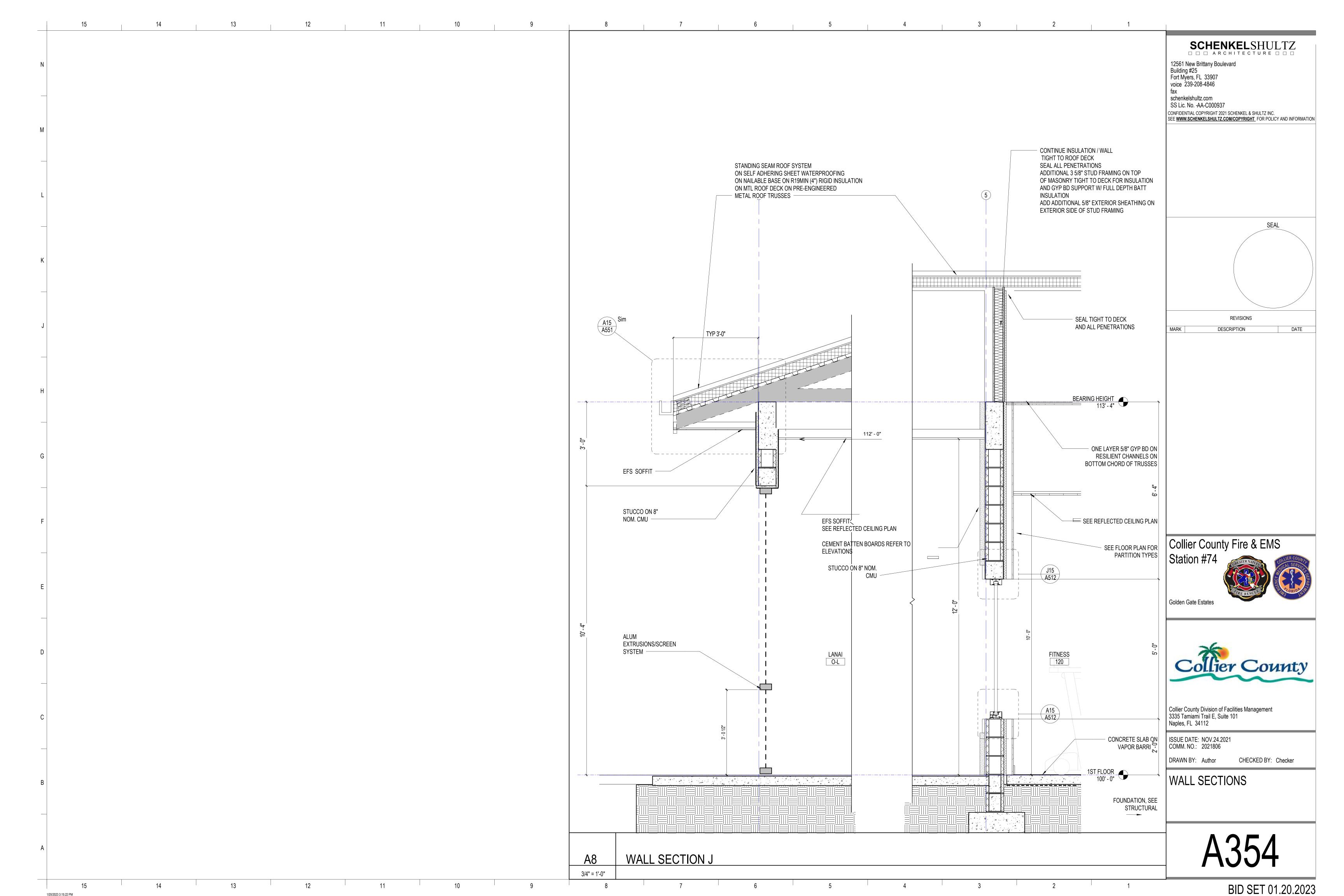


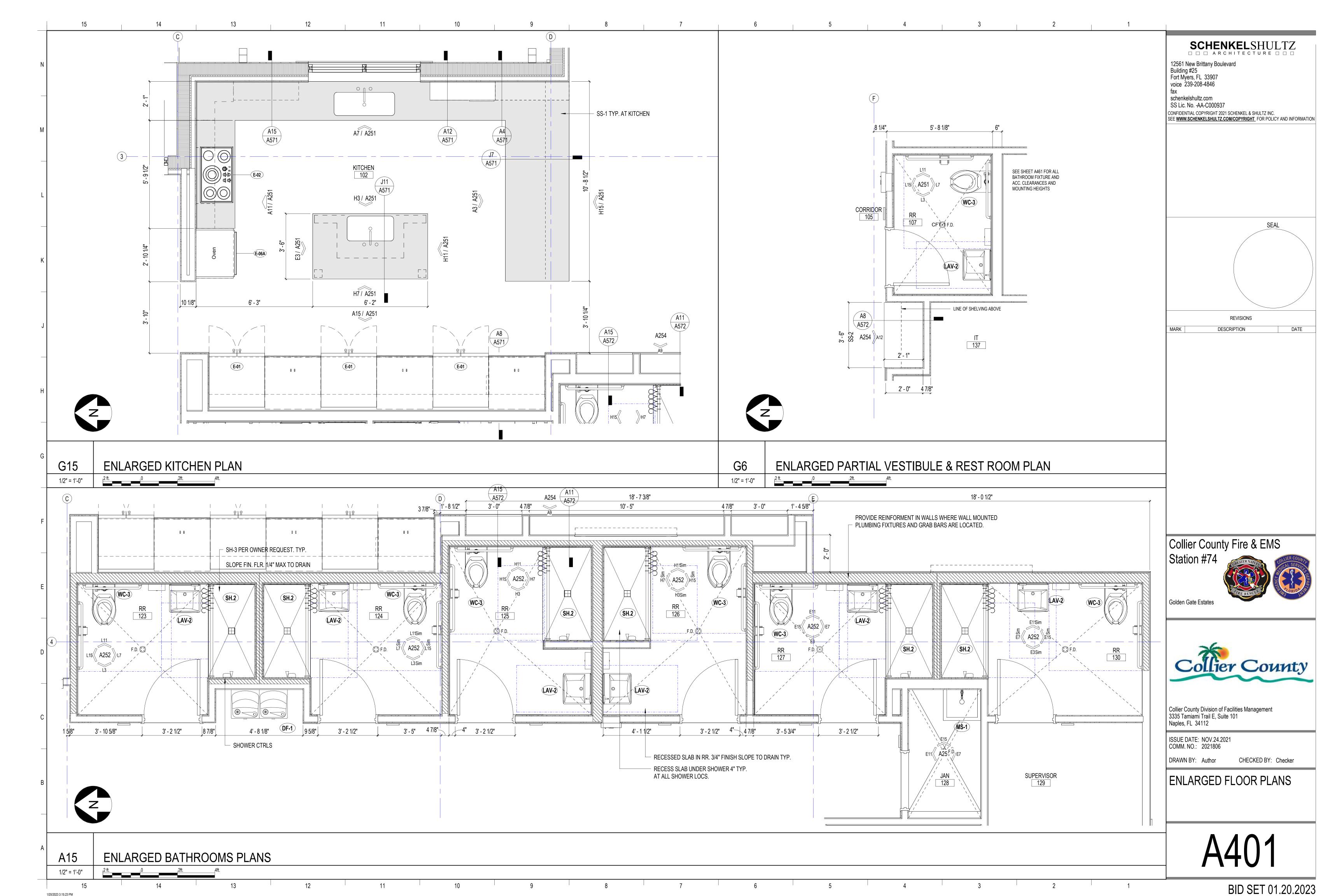


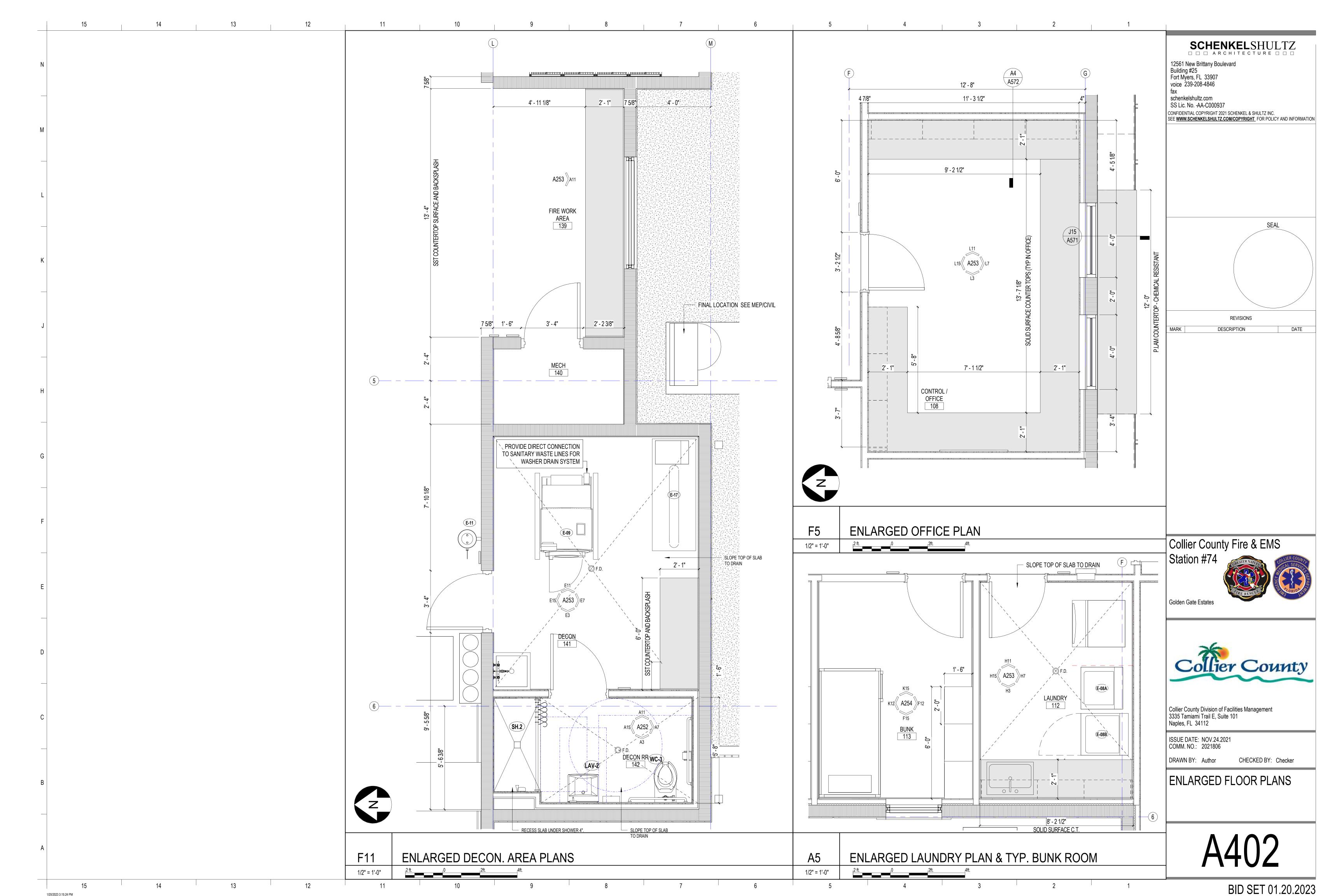


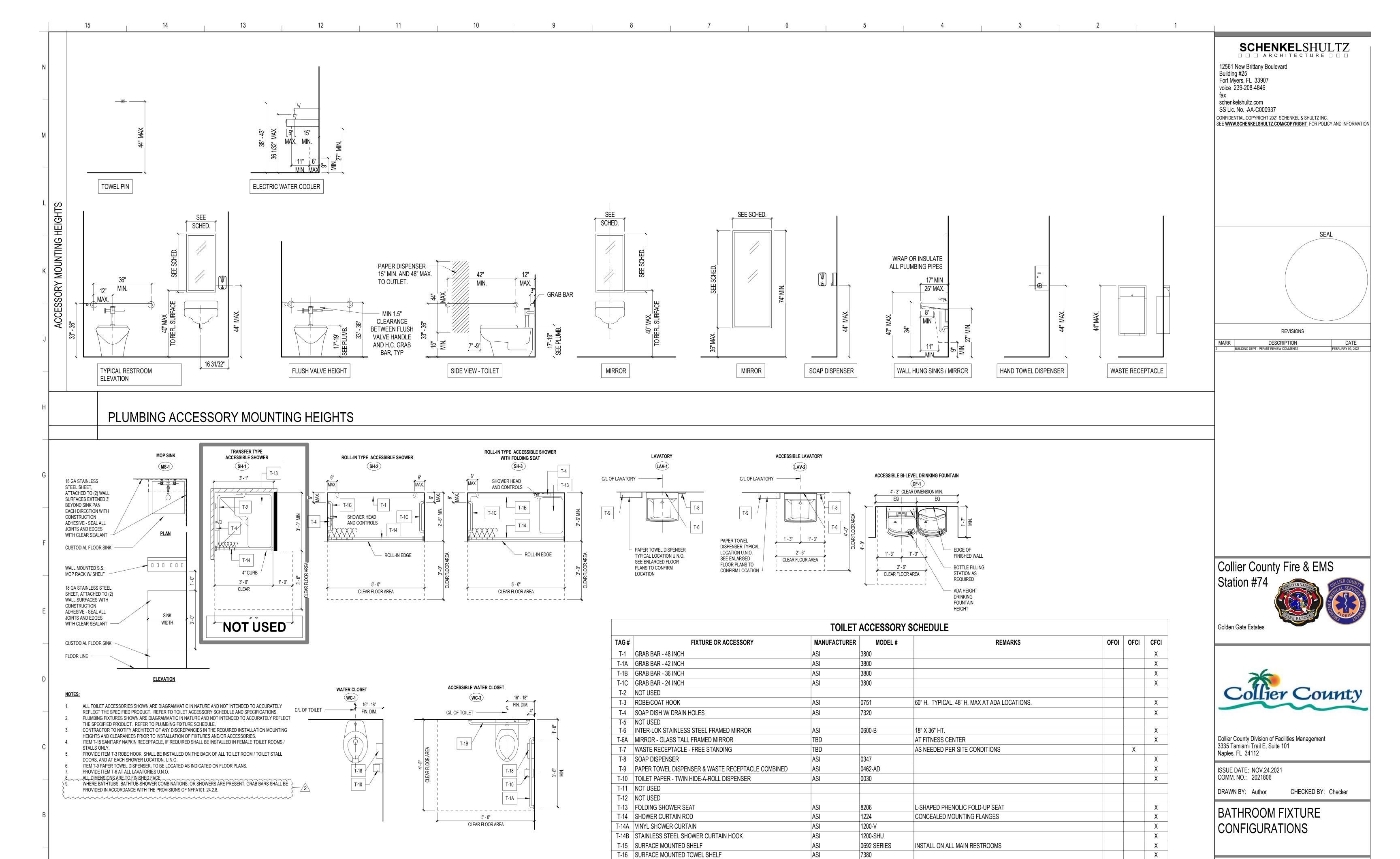










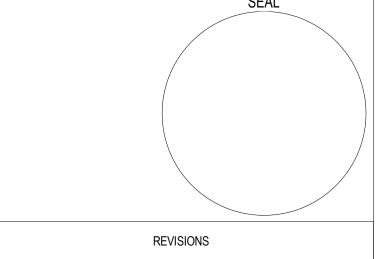


TYPICAL PLUMBING FIXTURE CONFIGURATION LEGEND

						EDULE	DOOR SCH							
			DETAILS			DOOR/FRAME	DOOR FRAME		NEL LEAF	DOOR PA				DOOR
12561 N Building	COMMENTS	SILL SEE ELEV	JAMB SEE ELEV	HEAD	HW Set	RATING	TYPE MATERIA	GLAZING	MATERIAL	TYPE	WIDTH	HEIGHT	ROOM NAME	NUMBER
Fort Mye	<u> </u>	SEE ELEV.	SEE ELEV. E5/A511	SEE ELEV J5/A511	2.0 12.0		SEE ELEV. AL 3 HM	GLAZING TYPE GL-1 Glass	WD	FG N2	3' - 0" 3' - 0"	7' - 0" 7' - 0"	CORRIDOR CORRIDORS	100
voice 239-	1	SEE ELEV.		SEE ELEV	2.0			GLAZING TYPE GL-1	AL	FG	3' - 0"	7' - 0"	CORRIDORS	101A
schenkelsh			E5/A511	J5/A511	12.0		3 HM	Glass	WD	N2	3' - 0"	7' - 0"	CORRIDOR	105
SS Lic. No.	1	SEE ELEV.		SEE ELEV.	1.0		AL LIM	GLAZING TYPE GL-1	AL	G2	6' - 0"	7' - 0"	COVERED AREA	106
SEE <u>www.sch</u>		A5/A511	E5/A511 E15/A510 SIM	J5/A511 J15/A510 SIM	5.0 6.0	45	3 HM 3 HM	Glass Glass	WD HM	FG G	3' - 0" 3' - 0"	7' - 0" 7' - 0"	VESTIBULE APPARATUS BAYS	106A 106B
		71071011	E5/A511	J5/A511	19.0		1 HM	N/A	WD	F	3' - 0"	7' - 0"	RR	107
			E5/A511	J5/A511	11.0		1 HM	Glass	WD	G	3' - 0"	7' - 0"	CONTROL / OFFICE	108
		A5/A511	E15/A510 SIM	J15/A510 SIM	9.0	45	2 HM	N/A	HM	F	3' - 0"	7' - 0"	EMS STORAGE	109
		A5/A511	E5/A511 E15/A510 SIM	J5/A511 J15/A510 SIM	7.0 6.0	45	3 HM 3 HM	Glass Glass	WD HM	N2 G	3' - 0" 3' - 0"	7' - 0" 7' - 0"	ACCESS ACCESS	110 110A
			E5/A511	J5/A511	10.0		1 HM	N/A	WD	F	3' - 0"	7' - 0"	MECHANICAL	111
			E5/A511	J5/A511	22.0		1 HM	Glass	WD	N2	3' - 0"	7' - 0"	LAUNDRY	112
			E5/A511	J5/A511	17.0	20	1 HM	N/A	WD	F	3' - 0"	7' - 0"	BUNK	113
			E5/A511 E5/A511	J5/A511 J5/A511	17.0 17.0	20	1 HM 1 HM	N/A N/A	WD WD	F	3' - 0" 3' - 0"	7' - 0" 7' - 0"	BUNK BUNK	114 115
			E5/A511	J5/A511	17.0	20	1 HM	N/A	WD	F	3' - 0"	7' - 0"	BUNK	116
			E5/A511	J5/A511	17.0	20	1 HM	N/A	WD	F	3' - 0"	7' - 0"	BUNK	117
			E5/A511	J5/A511	17.0	20	1 HM	N/A	WD	F -	3' - 0"		BUNK	118
			E5/A511 E5/A511	J5/A511 J5/A511	17.0 16.0	20	1 HM 1 HM	N/A Glass	WD WD	F G	3' - 0" 3' - 0"	7' - 0" 7' - 0"	BUNK FITNESS	119 120
			E5/A511	J5/A511 J5/A511	10.0		1 HM	Glass N/A	WD	F	3' - 0"	7 - 0"	MECHANICAL	120
		A15/A510	E15/A510	J15/A510	4.0		2 HM	N/A	HM	F	3' - 0"	7' - 0"	ELECTRIC	122
			E5/A511	J5/A511	18.0		1 HM	N/A	WD	F	3' - 0"	7' - 0"	RR	123
			E5/A511	J5/A511	18.0		1 HM	N/A	WD	F	3' - 0"	7' - 0"	RR	124
			E5/A511 E5/A511	J5/A511 J5/A511	18.0 18.0		1 HM 1 HM	N/A N/A	WD WD	F	3' - 0" 3' - 0"	7' - 0" 7' - 0"	CORRIDORS RR	125 126
- In the second			E5/A511	J5/A511	18.0		1 HM	N/A	WD	F	3' - 0"	7' - 0"	RR	127
MARK			E5/A511	J5/A511	13.0		1 HM	N/A	WD	F	3' - 0"	7' - 0"	JAN	128
			E5/A511	J5/A511	14.0	20	1 HM	N/A	WD	F	3' - 0"	7' - 0"	SUPERVISOR	129
			E5/A511 E5/A511	J5/A511 J5/A511	15.0 17.0	20	1 HM 1 HM	N/A N/A	WD WD	F	3' - 0" 3' - 0"	7' - 0" 7' - 0"	RR BUNK	130
			E5/A511	J5/A511	17.0	20	1 HM	N/A N/A	WD	F	3' - 0"	7' - 0"	BUNK	132
			E5/A511	J5/A511	17.0	20	1 HM	N/A	WD	F	3' - 0"	7' - 0"	BUNK	133
			E5/A511	J5/A511	17.0	20	1 HM	N/A	WD	F -	3' - 0"	7' - 0"	BUNK	134
	OVERHEAD SECTIONAL DOOR IN APP BAY		E5/A511 A15/A511	J5/A511 G15/A511	17.0 23.0	20	1 HM	N/A	WD	l F	3' - 0" 14' - 0"	7' - 0" 14' - 0"	BUNK	135 136
	OVERHEAD SECTIONAL DOOR IN APP BAY		A15/A511	G15/A511	23.0						14 - 0"	14 - 0"		136A
	OVERHEAD SECTIONAL DOOR IN APP BAY		A15/A511	G15/A511	23.0						14' - 0"	14' - 0"		136B
	OVERHEAD SECTIONAL DOOR IN APP BAY		A15/A511	G15/A511	23.0						14' - 0"	14' - 0"		136C
	OVERHEAD SECTIONAL DOOR IN APP BAY	Δ15/Δ510	A15/A511	G15/A511	23.0		2 HM	N/A	HM		14' - 0" 3' - 0"	14' - 0" 7' - 0"	APPARATUS BAYS	136D
	OVERHEAD SECTIONAL DOOR IN APP BAY	A15/A510	E15/A510 A15/A511	J15/A510 G15/A511	3.0 23.0		Z MIVI	IW/A	ПІУІ	Г	14' - 0"	14' - 0"	AFFANATUS DATS	136E 136F
	OVERHEAD SECTIONAL DOOR IN APP BAY		A15/A511	G15/A511	23.0						14' - 0"	14' - 0"		136G
<u> </u>	OVERHEAD SECTIONAL DOOR IN APP BAY		A15/A511	G15/A511	23.0						14' - 0"	14' - 0"		136H
	OVERHEAD SECTIONAL DOOR IN APP BAY		A15/A511	G15/A511	23.0						14' - 0"			1361
	OVERHEAD SECTIONAL DOOR IN APP BAY	A15/A510	A15/A511 E15/A510	G15/A511 J15/A510	23.0 3.0		2 HM	N/A	HM	F	14' - 0" 3' - 0"	14' - 0" 7' - 0"	APPARATUS BAYS	136K 136L
		A5/A510	E15/A510 SIM		8.0	45	2 HM	N/A N/A	HM	F	3' - 0"	7' - 0"	IT I	137
			E15/A510 SIM		9.0		3 HM	N/A	НМ	G	3' - 0"	7' - 0"	GEAR	138
			E5/A513	J5/A512	9.0		2 HM	N/A	HM	F -	3' - 0"	7' - 0"	MECH	140
			E15/A510 SIM E5/A511	J15/A510 SIM J5/A511	20.0		2 HM 1 HM	N/A N/A	HM HM	F	3' - 0" 3' - 0"	7' - 0" 7' - 0"	DECON DECON RR	141 142
Collier			LUI/VIII	JUIMJII	Z1.U		ı IIVI	IW/A	I IIVI	I ⁻	J - U	1-0	DECONTRIC	142
Collier														

SCHENKELSHULTZ

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DATE

DESCRIPTION

Collier County Fire & EMS



Golden Gate Estates



- ALL FRAMES IN CMU WALLS TO BE ASPHALTIC BACK COATED ALL FRAMES IN TOILET ROOMS TO BE ASPHALTIC BACK COATED
- ALL FRAMES IN APPARATUS BAY TO BE ASPHALTIC BACK COATED
- ALL EXTERIOR AND APP BAY FRAMES AND DOORS TO BE GALVANIZED SEE FINISH PLAN FOR FLOOR TRANSISTIONS AT DOOR FRAMES
- SEE HARDWARE SPECIFICATIONS FOR DOOR HARDWARE
- ALL HM FRAMES IN CMU WALLS TO HAVE 4"H HEADS (7'-4")
- ALL HM FRAMES IN STUD WALLS TO HAVE 2"H HEADS (7'-2")
- CM TO COORDINATE ALUM FRAMES WITH ROUGH OPENINGS AND ADJUST AS REQUIRED. REFER TO MECH DRAWINGS FOR DOOR UNDERCUT REQUIREMENTS

COMMENTS

SEE STOREFRONT ELEVATION FOR ADDITIONAL INFORMATION

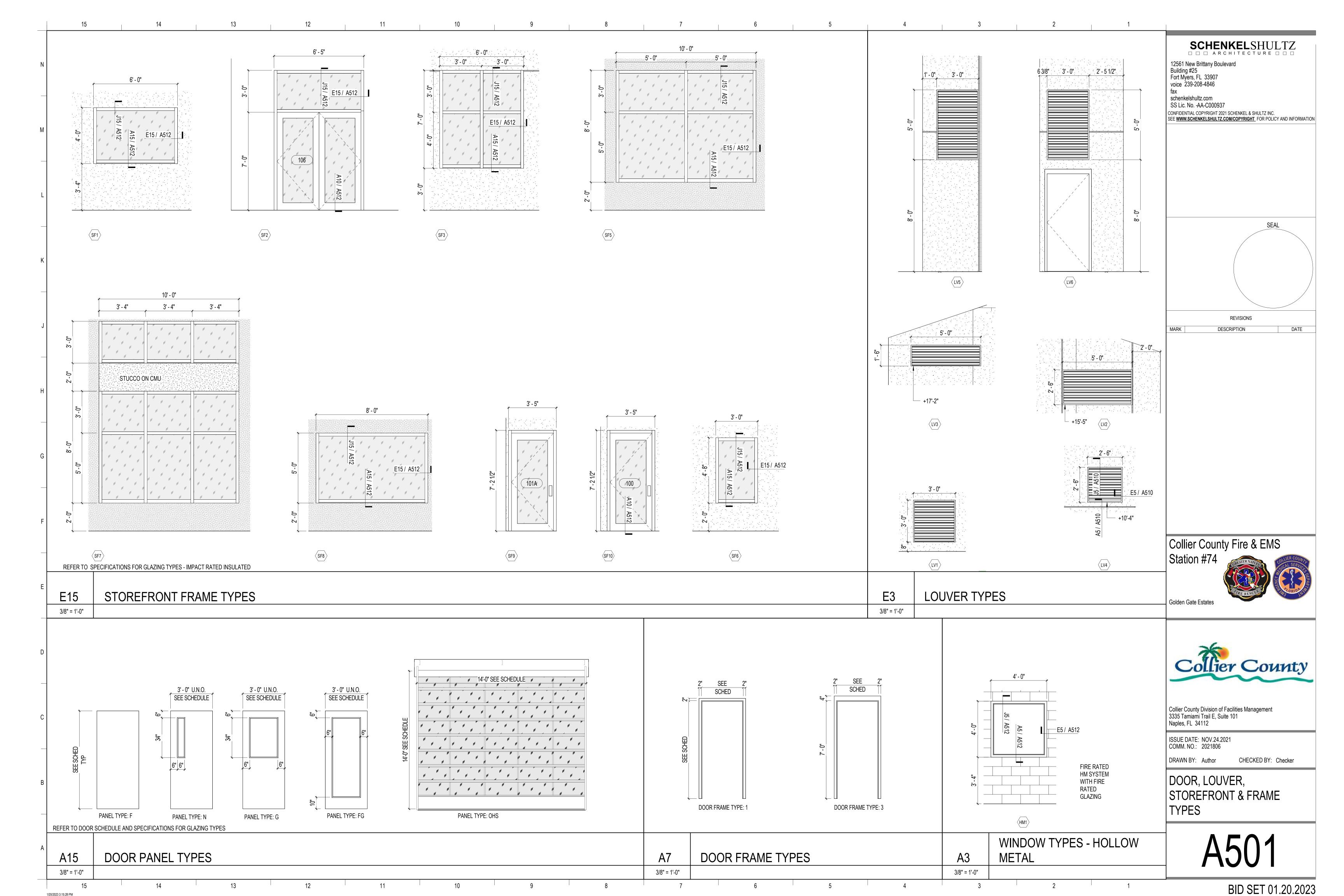


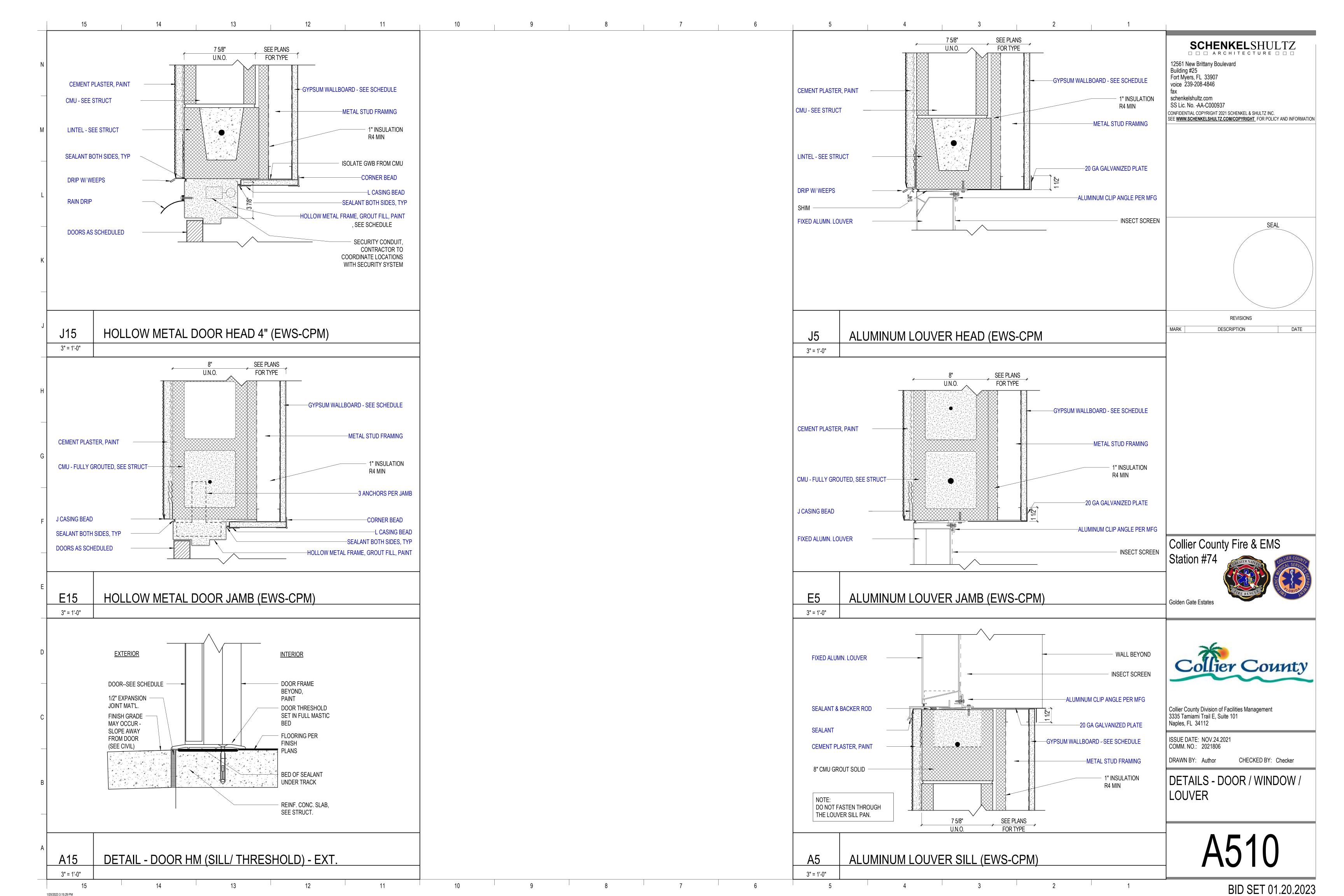
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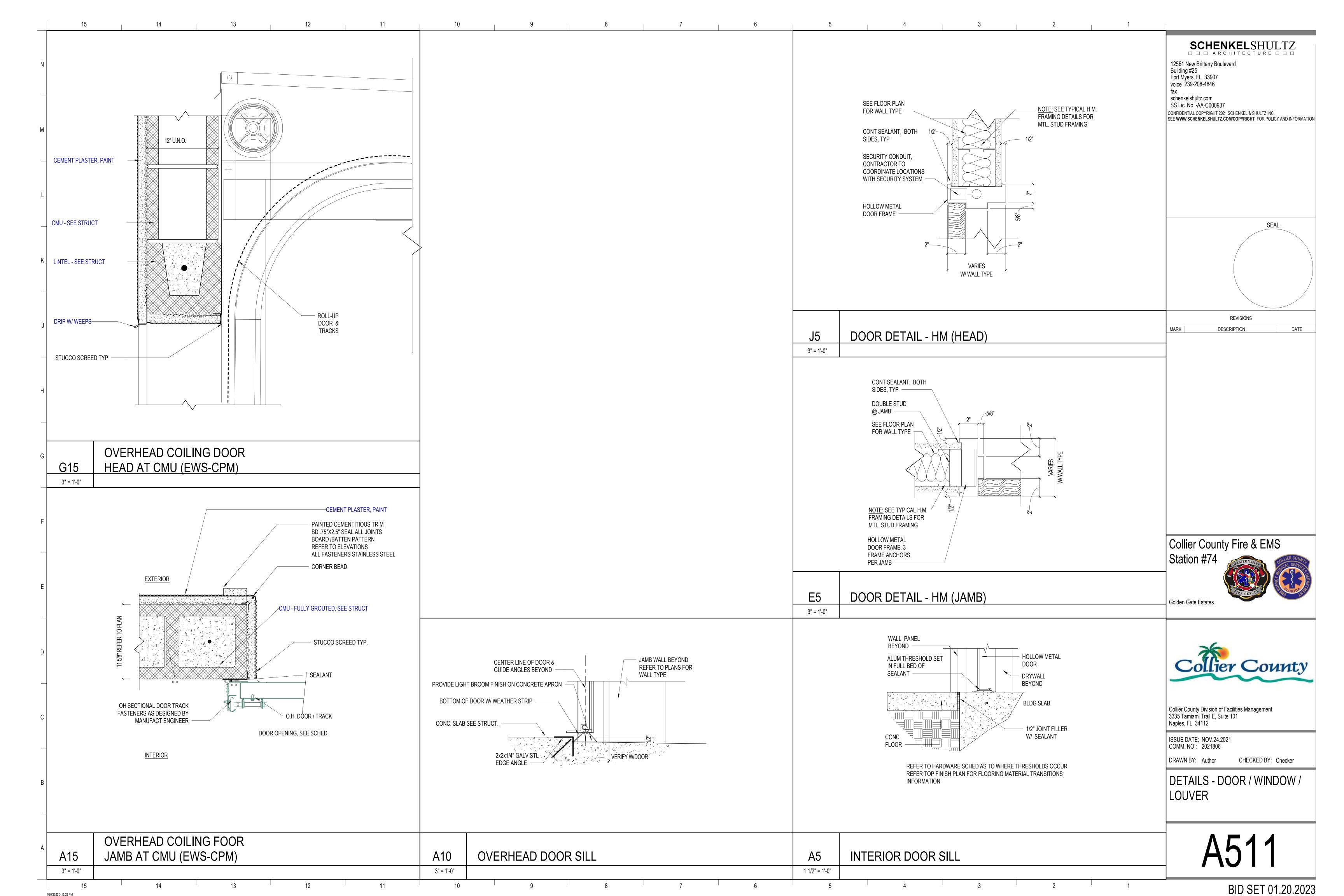
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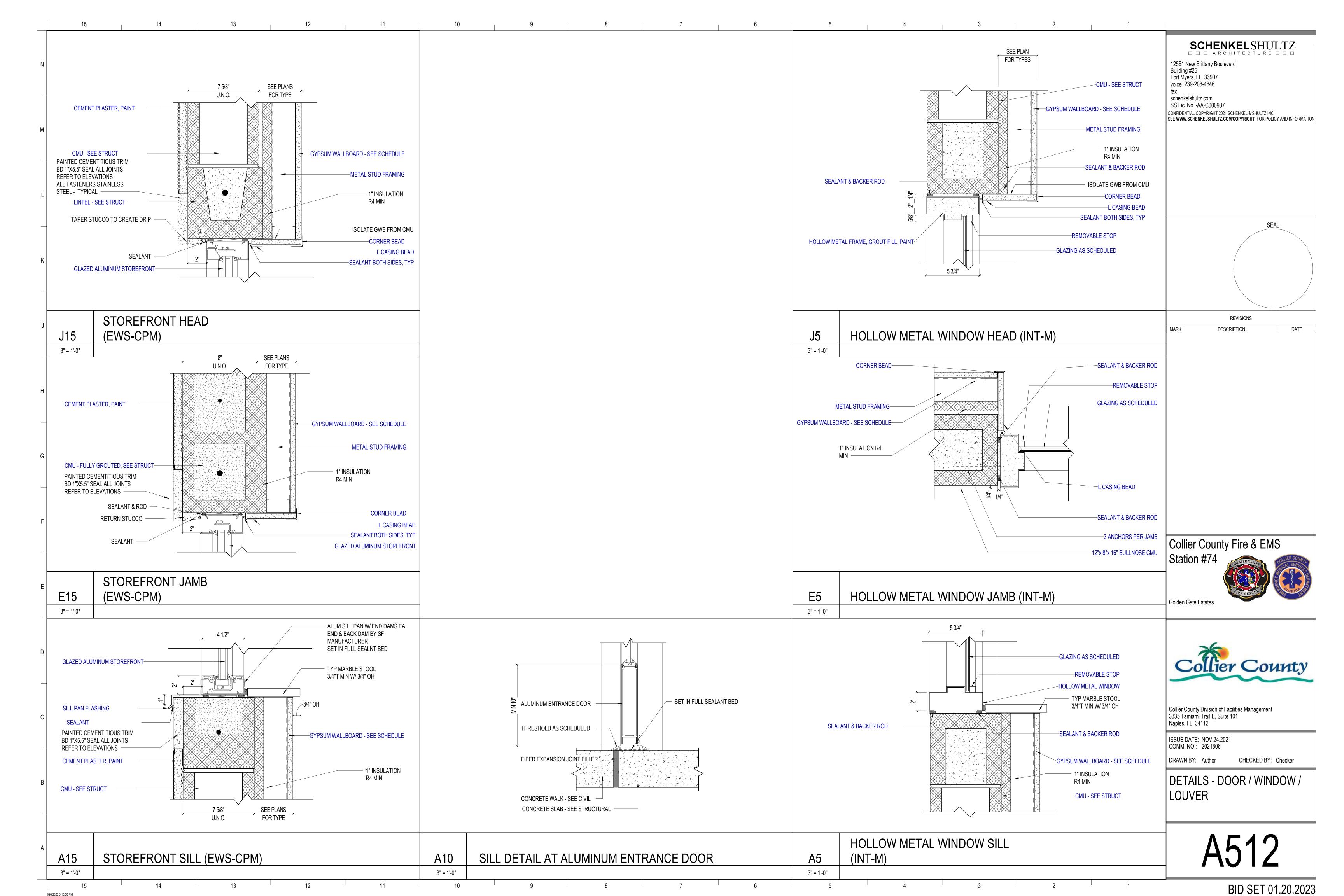
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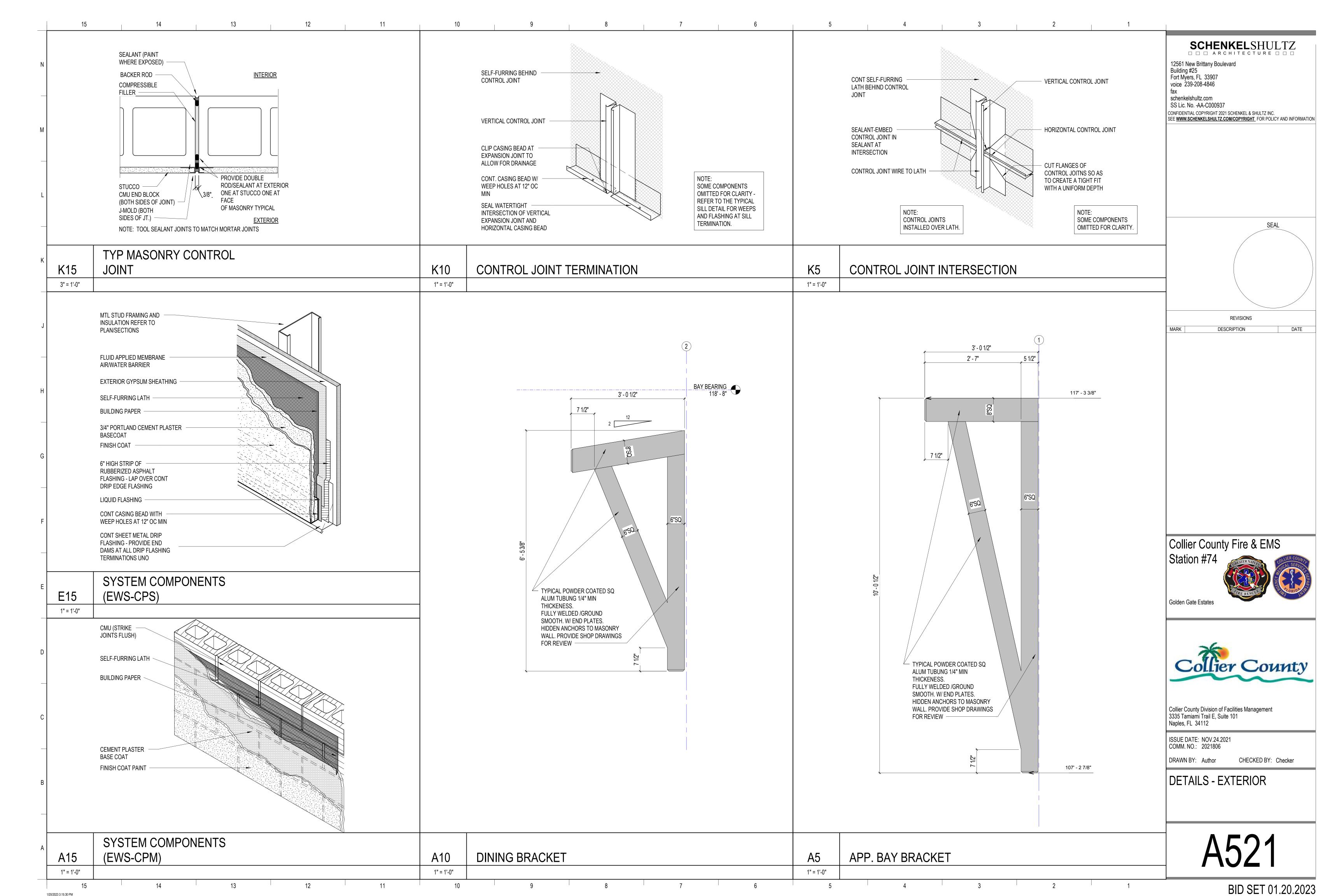
DOOR SCHEDULE

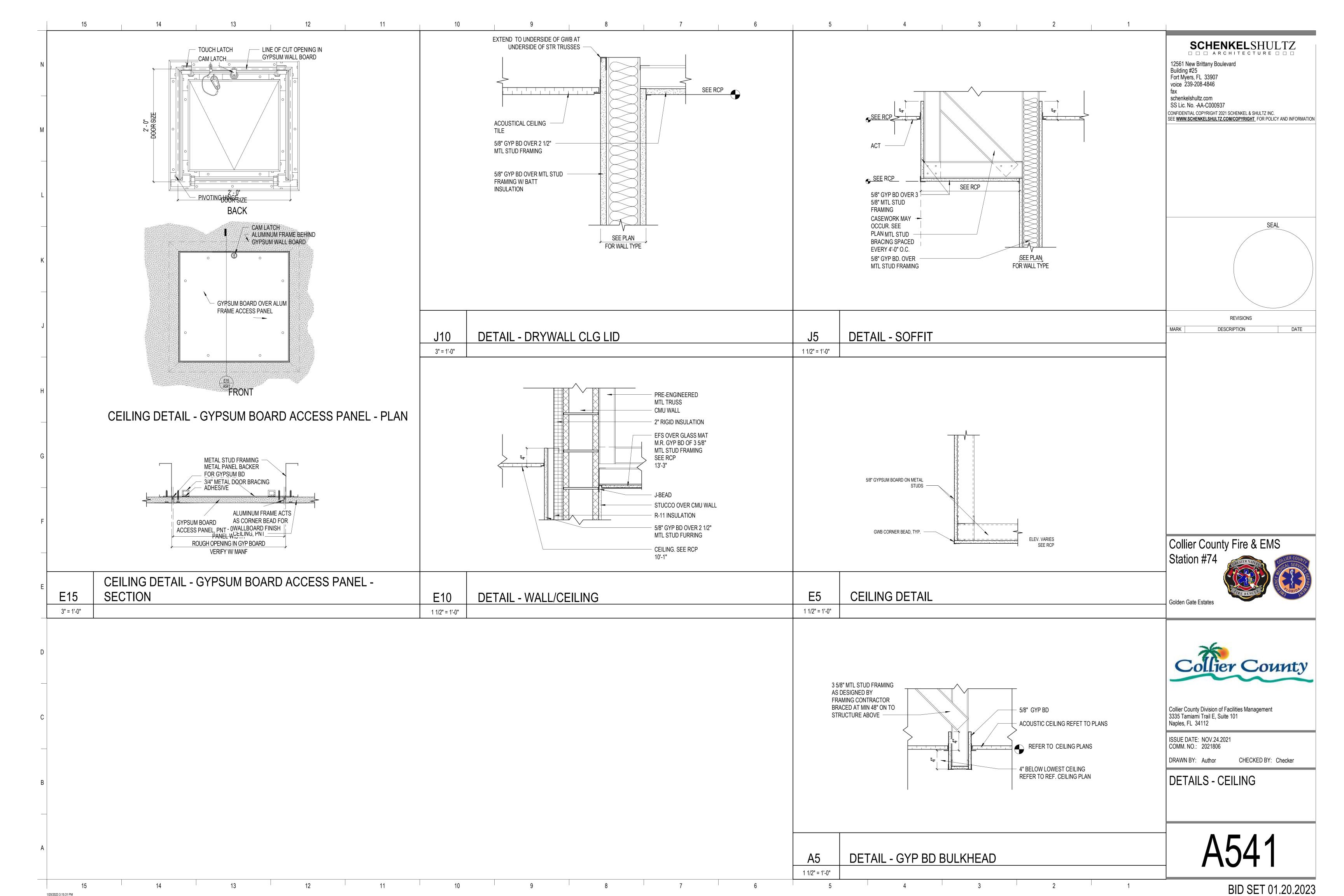


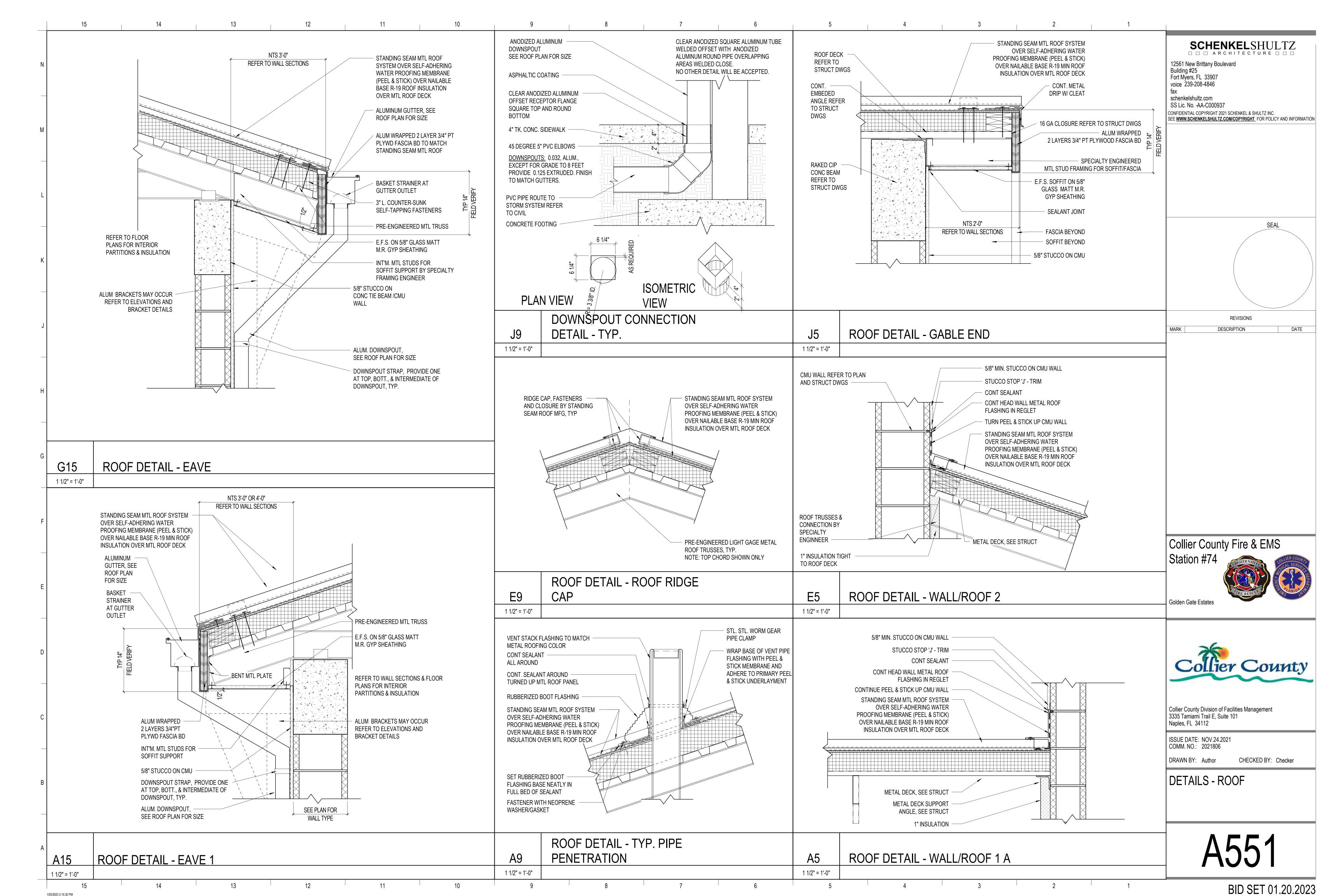


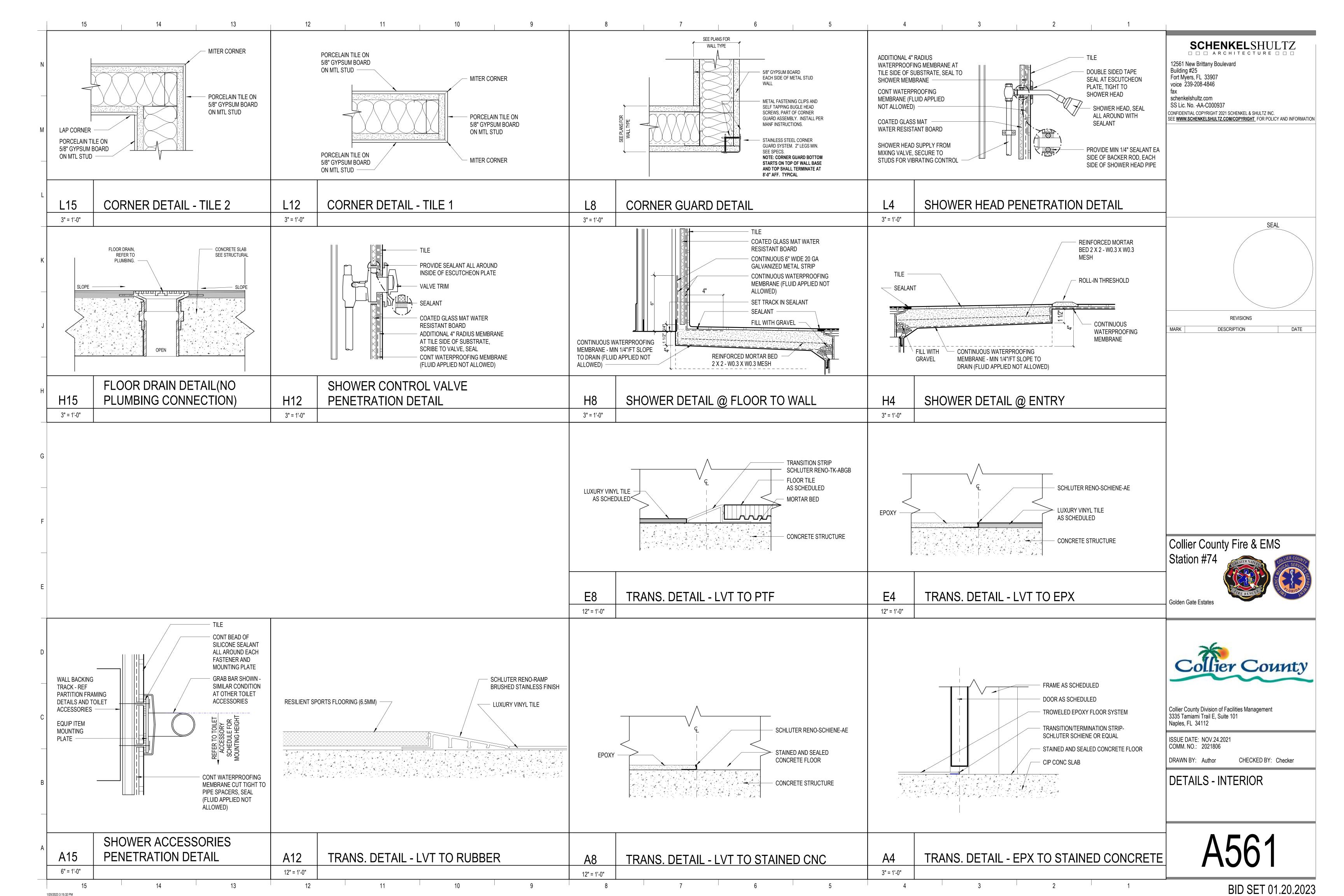


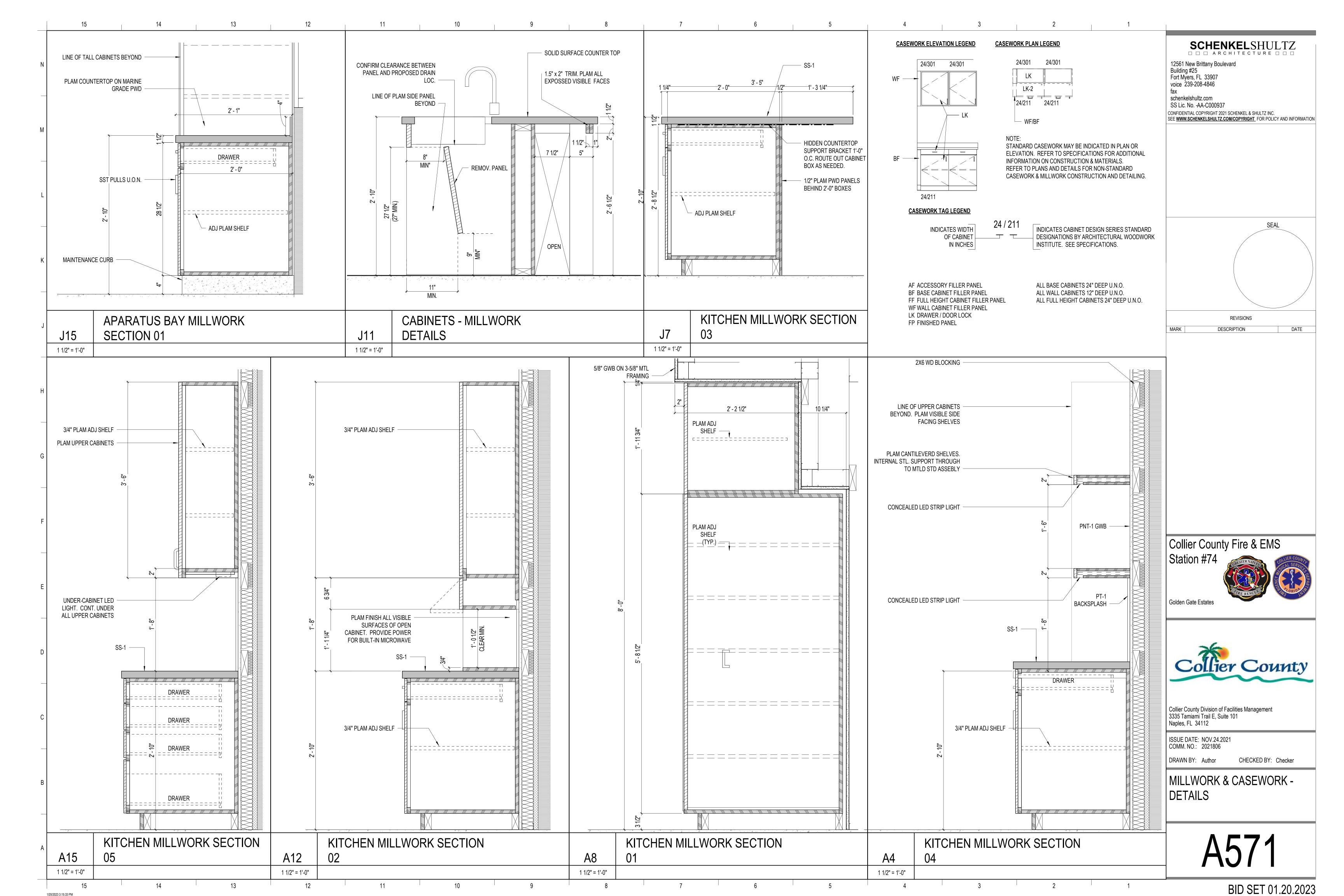


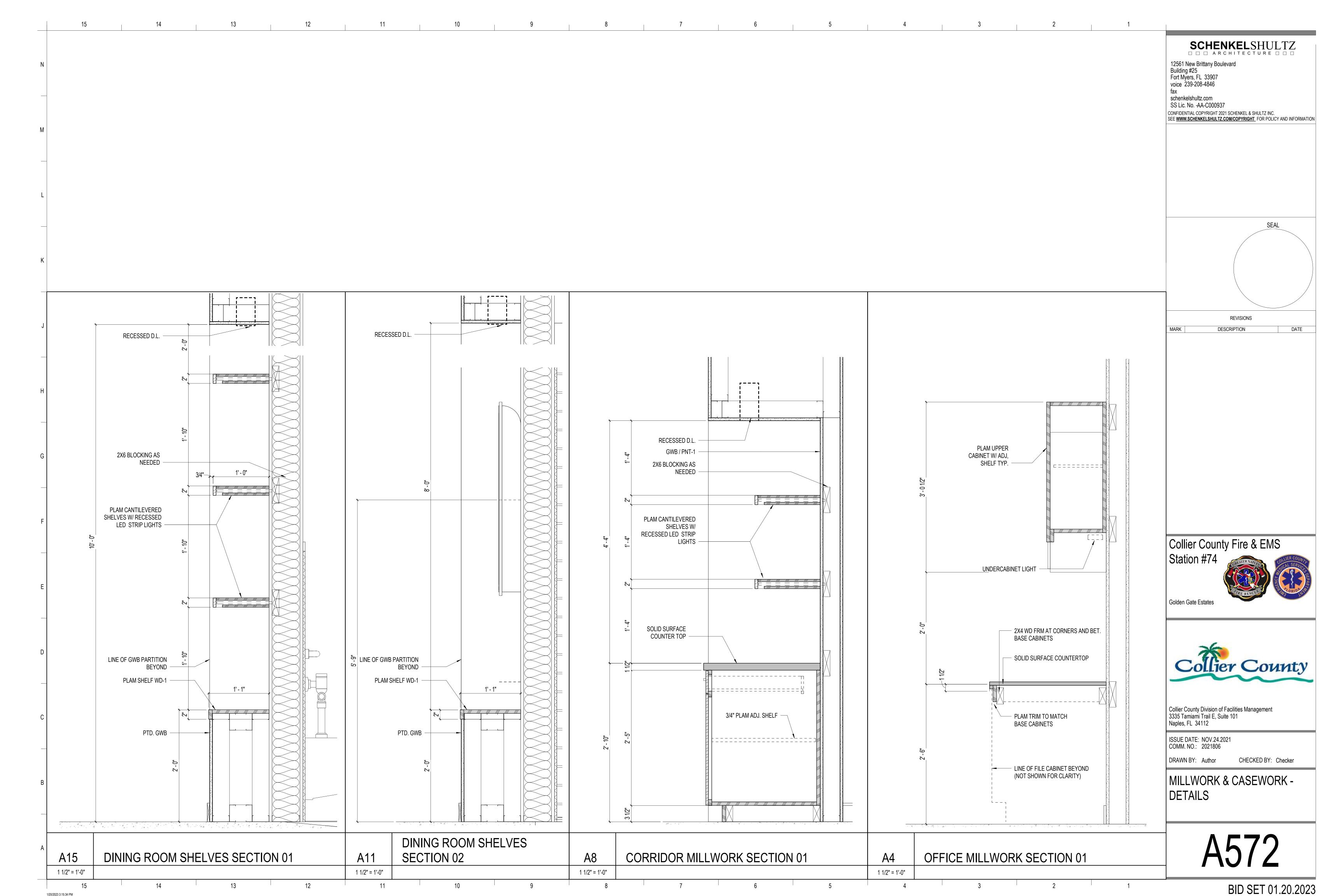












DESIGN LOAD VALUES ARE INDICATED ON THE APPROPRIATE SHEETS

AS FOLLOWS: FOUNDATION DESIGN - SEE FOUNDATION NOTE F2 ON THIS SHEET ROOF FRAMING DESIGN - SHEET S151 WIND DESIGN - SHEET S151

- D3 TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE
- D4 EVERY REASONABLE EFFORT HAS BEEN MADE TO ENSURE COORDINATION BETWEEN THESE DRAWINGS AND THE BOUND STRUCTURAL SPECIFICATIONS. SHOULD THERE BE ANY DISCREPANCIES, THE CONTRACTOR SHALL THEN REQUEST A CLARIFICATION IN WRITING.

SPECIALTY ENGINEERING REQUIREMENTS

- EXTERIOR CURTAIN WALLS SHALL BE DESIGNED BY THE VENDOR'S SPECIALTY ENGINEER AND SHALL INCLUDE FRAME, GLASS, GLAZING AND CONNECTIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED, DATED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION. DESIGN LOADING(S) SHALL CONFORM TO ALL REQUIREMENTS OF THE BUILDING CODE (SEE DESIGN CRITERIA FOR APPLICABLE BUILDING CODE). THE VENDOR SHALL PROVIDE MINDOW WALL REACTIONS TO THE ARCHITECT.
- FLAGPOLES AND SITE LIGHTING POLES SHALL BE DESIGNED BY THE POLE VENDOR'S SPECIALTY ENGINEER AND SHALL INCLUDE POLES. FOUNDATIONS AND CONNECTIONS. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED, DATED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION. MINIMUM DESIGN LOADS SHALL CONFORM TO ANSI/NAAM FP100 "SPECIFICATIONS FOR DESIGN LOADS OF METAL FLAGPOLES".
- EXTERIOR LIGHT STEEL FRAMING, INCLUDING BUT NOT LIMITED TO: WALLS, EXTERIOR CEILINGS, FASCIAS AND SOFFITS SHALL BE DESIGNED BY A SPECIALTY ENGINEER. STRUCTURAL ELEMENTS HAVE BEEN PROVIDED FOR THE ATTACHMENT OF THE LIGHT STEEL FRAMING. THE LIGHT STEEL SYSTEM SUPPLIER SHALL DESIGN AND DETAIL ALL CONNECTIONS TO THESE ELEMENTS. ANY FURTHER ELEMENTS REQUIRED FOR THE SUPPORT SHALL BE DESIGNED AND SUPPLIED AS PART OF THE LIGHT STEEL SYSTEM. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED, DATED AND SEALED BY AN ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION. DESIGN LOADING(5) SHALL CONFORM TO ALL REQUIREMENTS OF THE BUILDING CODE (SEE DESIGN CRITERIA FOR THE APPLICABLE BUILDING CODE) AND MAXIMUM DEFLECTIONS SHALL BE AS FOLLOWS: L/600 (BRICK VENEER), L/360 (STUCCO) & L/240 (FLEXIBLE FINISHES). A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.
- TRUSSES AND THEIR CONNECTIONS SHALL BE DESIGNED BY A SPECIALTY ENGINEER. SHOP DWGS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED, DATED AND SEALED BY AN ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION.
- PROVIDE ENGINEERED SUBMITTALS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION, FOR ALL MECHANICAL, ELECTRICAL AND PLUMBING SUPPORTS OR ATTACHMENTS NOT INCLUDED WITHIN THE CONSTRUCTION DOCUMENTS FOR ALL ITEMS THAT REQUIRE ANYTHING OTHER THAN THE MANUFACTURER'S STANDARD HARDWARE OR ARE EXPOSED TO WIND LOADS. AN EXAMPLE OF POSSIBLE ITEMS THAT THIS WOULD APPLY TO ARE, INCLUDING BUT NOT LIMITED TO, ROOFTOP AND/OR WALL MOUNTED DUCTS, PIPES AND TRANSFORMERS.

GENERAL

CONSTRUCTION

- THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF
- THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONS AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.
- G3 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.
- THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL MECHANICAL AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- G5 ALL SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED VIA ELECTRONIC MEDIA (i.e. PDF OR DWF FORMAT). HARD COPY SUBMITTALS WILL NOT BE ACCEPTED.
 - 1. SUBMITTALS SHALL NOT BE SECURED IN ANY FORMAT THAT WILL PREVENT COMMENTS FROM BEING ADDED.
 - 2. SUBMITTALS THAT ARE REQUIRED TO BE SIGNED AND SEALED SHALL BE SUBMITTED WITH A VISIBLE INK SEAL OR SHADED RAISED SEAL AT TIME OF FIRST SUBMITTAL, AND SHALL BE DIGITALLY SIGNED THAT MEETS THE REQUIREMENTS OF THE STATE BOARD WHERE THE PROJECT IS LOCATED.
 - 3. SUBMITTALS THAT ARE MARKED **PRELIMINARY** OR ARE OTHERWISE INCOMPLETE WILL BE RETURNED REJECTED AND OR NOT REVIEWED. SUBMITTALS SHALL BE IN FINAL OR COMPLETED STATE PRIOR TO SUBMISSION TO BBM.
- ANY SUBMITTALS RECEIVED BY ARCH/ENG THAT HAVE NOT BEEN CHECKED BY THE GC AND HIS SUB-CONTRACTOR SHALL BE RETURNED MITHOUT REVIEW.
- G7 ALL SECTIONS AND DETAILS SHALL BE CONSTRUED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS NOTED.

- ANY CONFLICTS NOTICED. OR OBSERVED. BETWEEN THE WRITTEN SPECIFICATIONS AND THE CONSTRUCTION DOCUMENTS DURING PROJECT BIDDING OR PROJECT CONSTRUCTION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER-OF-RECORD. IF SUCH DISCREPANCY IS NOT NOTICED OR BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER-OF-RECORD FOR WRITTEN CLARIFICATION, THE CONTRACTOR/SUB-CONTRACTOR SHALL PROVIDE, AT PROJECT BID OR DURING PROJECT CONSTRUCTION, THE MORE STRINGENT AND/OR MORE COSTLY OF THE TWO ITEMS IN THE BID AND/OR FINAL INSTALLATION.
- "BBM STRUCTURAL ENGINEERS" ASSUMES NO RISK OR LIABILITY FOR THE SITE SAFETY OR WELL-BEING OF ANY CONTRACTOR, SUB-CONTRACTOR NOR THEIR EMPLOYEES DURING THE CONSTRUCTION OF THE PROJECT CONTAINED IN THESE DOCUMENTS.
- G10 GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL SUPPLY ALL SUB-CONTRACTORS WITH THE STRUCTURAL GENERAL NOTE SHEETS AS WELL AS THE STRUCTURAL DRAWINGS.
- THE STRUCTURAL STEEL AND OPEN WEB STEEL JOISTS SHALL BE FABRICATED AND ERECTED IN FULL CONFORMANCE WITH THE "OSHA STEEL ERECTION STANDARD". IF THE CONSTRUCTION DRAWINGS DEVIATE FROM THE OSHA STANDARD THEN THE FABRICATOR SHALL PROVIDE SUBMITTALS THAT CLEARLY INDICATE THE DEVIATION WITH A REVISION CLOUD AND REQUEST APPROVAL FROM "BBM" TO MAKE THE CHANGE SO THAT CONFORMANCE WITH THE OSHA STANDARD IS ASSURED.
- G12 THE CONTRACTOR'S MEANS AND METHODS SHALL FULLY CONFORM TO THE REQUIREMENTS OF SEI/ASCE 37 (DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION) UNTIL ALL OF THE STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE RECEIVED THE INSPECTOR'S APPROVAL.

FLORIDA PRODUCT APPROVAL / NOTICE OF ACCEPTANCE

- FPA1 THE STRUCTURAL ROOF DECK(S) FOR THIS PROJECT HAVE BEEN DESIGNED TO BE COMPLIANT WITH THE CODES AND PRESSURES LISTED HEREIN. ANY PRODUCTS INSTALLED OVER THE STRUCTURAL DECK(S) SHALL HAVE BEEN TESTED AS AN ASSEMBLY, INCLUSIVE OF THE STRUCTURAL DECK, AND SHALL BE SUBMITTED FOR APPROVAL MITH THE FPA/NOA CLEARLY IDENTIFIED. FAILURE TO PROVIDE THIS INFORMATION SHALL BE CAUSE FOR REJECTION BY THE ARCHITECT AND BBM STRUCTURAL ENGINEERS, INC. ALL WARRANTIES MUST BE PART OF THE ROOFING SUBMITTAL. ANY WARRANTY CONTAINING LANGUAGE WHICH "EXCLUDES GALE AND/OR HURRICANE FORCE WIND DAMAGE", OR "EXCLUDES DAMAGE FROM GALE AND/OR HURRICANE FORCE WINDS", OR ANY OTHER SIMILAR VERBIAGE, SHALL BE REJECTED AND THE ENTIRE PRODUCT ASSEMBLY SHALL NOT BE PERMITTED FOR USAGE ON THE PROJECT.
- FPA2 RATIONAL ANALYSIS OF THE ROOF SYSTEM SHALL NOT BE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE OWNER, ARCHITECT AND ENGINEER, AND THEN, ONLY WHERE PERMITTED BY THE LOCAL JURISDICTION HAVING DIRECT AUTHORITY.

SLAB ON GRADE

- UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, COMPACT INTERIOR FILL TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). SOIL COMPACTION SHALL BE FIELD-CONTROLLED BY A REPRESENTATIVE TECHNICIAN OF A QUALIFIED LABORATORY. EACH LAYER OF FILL SHALL NOT EXCEED 12" THICK AND SHALL BE COMPACTED PRIOR TO PLACEMENT OF NEXT LAYER.
- MAXIMUM SPACING OF CONTROL JOINTS (i.e. SAWCUT JOINT OR CONSTRUCTION JOINT) SHALL BE AS SET IN THE TABLE BELOW, OR AS NOTED ON PLANS. THE MORE STRINGENT SHALL APPLY. PATTERNS SHALL BE APPROXIMATELY SQUARE WITH A RATIO OF LONG SIDE TO SHORT SIDE NOT EXCEEDING 1.5 TO 1. SEE SLAB-ON-GRADE DETAILS FOR ADDITIONAL INFORMATION.

SLAB THICKNESS (IN)	★ 3/4" OR LARGER AGGREGATE SPACING (FT)
4	12
5	13
6	14
7 AND GREATER	15

* MIX DESIGNS CONTAINING AGGREGATE LESS THAN 3/4" ARE NOT ACCEPTABLE.

GENERAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF SJ'S AND CJ'S WITH ARCHITECTURAL FLOOR FINISHES TO ENSURE SLAB JOINTS DO

FOUND ATIONS

NOT READ THROUGH.

- F1 THE FOUNDATIONS AND SLAB-ON-GRADE DESIGN CONTAINED HEREIN IS BASED SOLELY UPON THE PROJECT'S GEOTECHNICAL REPORT (REPORT NUMBER 0530.2100276.0000, DATED 11/3/2021, AS PREPARED BY UNIVERSAL ENGINEERING SCIENCES). BBM HAS RELIED EXCLUSIVELY ON THE CONTENTS AND RECOMMENDATIONS WITHIN THIS REPORT, BUT ACCEPTS NO RESPONSIBILITY WHATSOEVER FOR IT'S CONTENTS OR ACCURACY. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL MAKE THEMSELVES FAMILIAR WITH THE REPORT BEFORE THE COMMENCEMENT OF CONSTRUCTION.
- FOUNDATION DESIGN IS BASED ON AN ASSUMED NET ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF. COMPACTION UNDER ALL FOUNDATIONS SHALL ALSO BE AS STATED IN NOTE SOG1
- F3 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY-STANDARD SOIL DENSITY TESTS TO ENSURE CONFORMANCE WITH GEOTECHNICAL SOILS REPORT. SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

- F4 CONTRACTOR, IN CONJUNCTION WITH GEOTECHNICAL FIELD REPRESENTATIVE, SHALL DETERMINE IF ANY UNSUITABLE CONDITIONS ARE DISCOVERED DURING EXCAVATION WHICH WOULD PREVENT ATTAINMENT OF THE DESIGN SOIL PRESSURE RECOMMENDED BY THE SOILS REPORT.
- F5 FOOTINGS SHALL BE CAST TO THE SCHEDULED SIZE AND SHALL NOT BE OVERSIZED BY MORE THAN 6" ON ANY SIDE FOR FOOTING WIDTH OF AT LEAST 6'-O". FOR FOOTINGS LESS THAN 6'-O" IN WIDTH THE MAXIMUM OVERSIZING SHALL BE 3"
- CONTRACTOR SHALL BE PREPARED FOR AND SHALL INCLUDE COST OF FORMING FOUNDATIONS SHOULD THE EARTH NOT PROVIDE ADEQUATE BANK STABILITY.

POST-INSTALLED ANCHORS

- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER-OF-RECORD (SEOR) PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED AND PRODUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE SAME STATE AS PROJECT LOCATION. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT OR BETTER PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.
- THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS. ADDITIONALLY, INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE DONE BY CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318-14 (SECTION 17.8.2.2). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED PRIOR TO COMMENCEMENT OF INSTALLATION.
- CONCRETE ANCHORS:
 - A. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED MECHANICAL ANCHORS
 - 1. DEMALT "POWER-STUD+ SD1" (ICC-ES ESR-2818) 2. DEMALT "POWER-STUD+ SD2" (ICC-ES ESR-2502)
 - 3. DEMALT "POWER-STUD+ SD6" (ICC-ES ESR-3471)
 - (316 STAINLESS STEEL) 4. DEWALT "SCREW-BOLT+" (ICC-ES ESR-3889)
 - 5. DEWALT "SNAKE+" (ICC-ES ESR-2272)
 - 6. DEWALT "MINI-UNDERCUT+" (ICC-ES ESR-3912) 7. HILTI KWIK BOLT-TZ EXPANSION ANCHOR SAFE SET
 - SYSTEM WITH SI-AT-A22 TOOL WITH ADAPTIVE
 - TORQUE FOR APPLICABLE SIZES (ICC-ES ESR-1917) 8. HILTI HUS EZ SCREW ANCHOR (ICC-ES ESR-3056)
 - 9. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037) 10. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
 - ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL BE INSPECTED AS FOLLOWS. AT THE ONSET OF EACH APPLICATION, A MANUFACTURER'S REPRESENTATIVE MUST BE PRESENT TO WITNESS AT LEAST FIVE COMPLETE INSTALLATIONS. INSTALLERS MUST BE TRAINED BY THE MANUFACTURER AND MANUFACTURER SHALL SUBMIT DOCUMENTATION TO THE CONTRACTOR INDICATING TRAINING HAS TAKEN PLACE. TRAINED INSTALLERS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE CONTRACTOR THAT ALL ANCHORS HAVE BEEN INSTALLED PER THE MPII. CONTRACTOR SHALL SUBMIT THIS DOCUMENTATION TO THE SEOR. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING MINIMUM AGE OF 21 DAYS. HOLES SHALL BE DRY AT THE TIME OF INSTALLATION. ADHESIVES SHALL HAVE MAX IN-SERVICE SHORT-TERM TEMPERATURE OF 150°F, AND MAX IN-SERVICE LONG-TERM TEMPERATURE OF 110°F. PRIOR TO INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS. INSTALLERS ARE REQUIRED TO BE CERTIFIED IN ACCORDANCE WITH THE ACI CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM AND MUST BE CONTINUOUSLY INSPECTED. ANCHORS SHALL ALSO HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED
 - 1. DEWALT "PURE 110+" (ICC-ES ESR-3298)

ADHESIVE ANCHORS INCLUDE THE FOLLOWING PRODUCTS:

- 2. DEWALT AC200+ GOLD (ICC-ES ESR-4027)
- a. HILTI HIT-HY 200 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD PER
- b. HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) WITH HAS-E THREADED ROD PER ICC ESR-3187 C. HILTI HY 200 ADHESIVE ANCHOR USING TRADITIONAL CLEANING
- METHOD, 2 BLOWS OF COMPRESSED AIR (90 PSI MINIMUM, OIL FREE COMPRESSOR), 2 BRUSHES WITH SAME SIZE AS HOLE WIRE BRUSH AND 2 MORE BLOWS, (2x2x2 CLEANING METHOD) PER ICC ESR-3187. d. HILTI HIT-RE 500-V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD PER ICC ESR-2322 FOR SLOW CURE
- APPLICATIONS. 4. SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) 5. SIMPSON STRONG-TIE "AT-XP" (IAPMO UES ER-263)
- 6. SIMPSON STRONG-TIE "ET-HP" (ICC-ES ESR-3372)

MASONRY ANCHORS:

- A. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY
 - MECHANICAL AND CONCRETE SCREM ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES ACO1 OR AC106, RESPECTIVELY. PRE-APPROVED MECHANICAL AND CONCRETE SCREW ANCHORS INCLUDE:
 - a. DEWALT "POWER-STUD+ SD1" (ICC-ES ESR-2966)
 - b. DEMALT "SCREM-BOLT+" (ICC-ES ESR-4042) c. HILTI KMIK BOLT 3 (ICC-ES ESR-1385)

 - d. SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO UES ER-240) e. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)

- 2. ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE
- ANCHORS INCLUDE: a. DEWALT AC100+ GOLD (ICC-ES ISR-3200)

b. HILTI HY 270 ADHESIVE ANCHOR (ICC-ES ESR-4143)

- c. SIMPSON STRONG-TIE "SET-XP" (IAPMO UES ER-265)
- d. SIMPSON STRONG-TIE "AT-XP" (IAPMO UES ER-281) e. SIMPSON STRONG-TIE "ET-HP" (IAPMO UES ER-241)
- ANCHORAGE TO HOLLOW CONCRETE MASONRY / UNREINFORCED CLAY BRICK MASONRY
 - 1. SCREM ANCHORS FOR USE IN HOLLOM CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED SCREW ANCHORS INCLUDE:
 - a. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056)
 - 2. ADHESIVE ANCHORS WITH SCREEN TUBES FOR USE IN HOLLOW CONCRETE MASONRY / UNREINFORCED CLAY BRICK MASONRY SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC58 OR AC60, AS APPROPRIATE. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:
 - a. DEWALT AC100+ GOLD (ICC-ES ISR-3200)-HOLLOW CONCRETE MASONRY
 - b. DEWALT AC100+ GOLD (ICC-ES ISR-4105)-CLAY BRICK MASONRY c. HILTI HY 270 ADHESIVE ANCHOR (ICC-ES ESR-4143)
 - d. SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772) e. SIMPSON STRONG-TIE "ACRYLIC-TIE" (ICC-ES ER-5791)

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12561 New Brittany Boulevard Building #25 Fort Myers, FL 33907 voice 239-208-4846 schenkelshultz.com

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REVISIONS

DATE DESCRIPTION

Collier County Fire & EMS Station #74

Golden Gate Estates



Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

DRAWN BY: TC

CHECKED BY: BE/MK

STRUCTURAL GENERAL **NOTES**

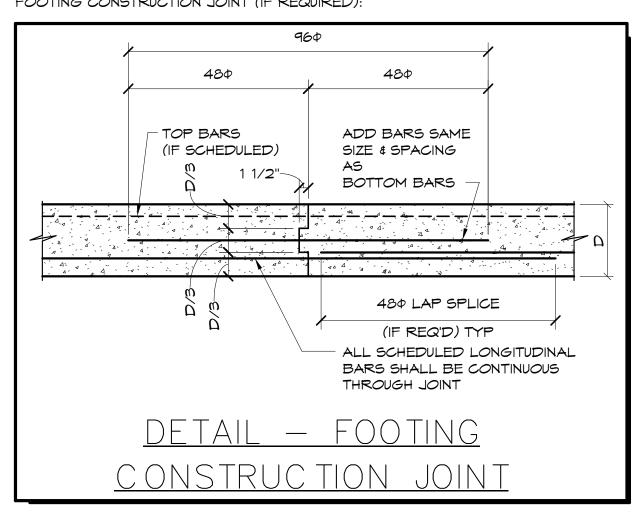
STRUCTURAL GENERAL NOTES A15

3/4" = 1'-0"

CONCRETE AND REINFORCING COVER FOR REINFORCING SHALL BE AS FOLLOWS: A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STEPPED FOOTING DETAIL (IF REQUIRED) CONCRETE CAST AGAINST AND STANDARD TESTING INCLUDING SLUMP TESTS AND CYLINDER BREAKS TO PERMANENTLY EXPOSED TO EARTH: ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SEE PLAN FOR SUBMIT REPORTS TO ARCHITECT AND ENGINEER. CONCRETE EXPOSED TO EARTH OR WEATHER: LOCATION CONCRETE WORK SHALL CONFORM TO ACI 318-14 BUILDING CODE #6 THRU #18 BARS: REQUIREMENTS FOR STRUCTURAL CONCRETE. #5 BAR, W31 OR D31 WIRE AND SMALLER: 1 1/2" ALL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES: **EXPOSURE** FOOTING PENETRATION DETAILS: **CATEGORIES &** PLAN CLASSES (PER COARSE LOCATION SLUMP COMMENTS ACI 318-14 STRENGTH AGGREGATE(S) PC U-LINTEL M/8" **SECTION 19.3.1** 1. GC SHALL CONTACT ENGINEER IF BRG EA END, REINF OPENING SIZE AND/OR SPACING M/ (2) #5 (FILLED F | S | W | C EXCEEDS THAT SHOWN. SOLID W/ CONC) MATCH 3000 PSI 4" +/- 1" FOUNDATIONS 2. WRAP PIPE(S) WITH A MINIMUM 1" THICK TYP WALL REINF COMPRESSIBLE PIPE INSULATION FOR SLAB-ON-GRADE: FOOT TRAFFIC 3000 PSI 4" +/- 1" | FO | SO | MO | CC THICKNESS EA END OF LINTEL ENTIRE WIDTH OF FTG + 4" MIN EACH 4000 PSI SIDE. GROUT VOID SOLID. (MIN CEMENT SLAB-ON-GRADE: INDUSTRIAL SCHEDULED 4" +/- 1" | 3/8" \$ 1 1/2" FO | SO | MO | CO CONTENT = FTG REINF VEHICULAR TRAFFIC T/ FTG EL, SEE FDN PLAN 520 lb/yd³) FILLED CELL, PRECAST LINTELS & GROUT: 3/8" 8" TO 11 BOND BEAM GROUT (ASTM 2500 PSI IN/AIN/AIN/AIN/ FINE GROUT: C476) - SEE NOTE 7 NONE ARCHITECT/ENGINEER. FOOTING CONSTRUCTION JOINT (IF REQUIRED): ﴾ نظر المحيد بينية المحيد بينية المحيد ا وي قبل المحيد المحي SLUMP FOR RAMPS AND SLOPING SURFACES SHALL NOT EXCEED 4". 2. ALL CONC MIXES SHALL HAVE A MAXIMUM SAND TO TOTAL AGGREGATE RATIO OF 0.50. 3. A 2" OR 3" PUMP SHALL BE ACCEPTABLE FOR COLUMNS, CELL FILL AND TIE BEAMS BUT WILL NOT BE 48¢ 48¢ ALLOMED FOR FOUNDATIONS, SLABS AND CONCRETE BEAMS. F. READY MIX SUPPLIER SHALL DESIGN THE MIXES THAT CONTAIN MULTIPLE AGGREGATES TO BE WELL GRADATED. TOP BARS 5. SLABS SHALL NOT BE AIR ENTRAINED. (IF SCHEDULED) 6. FOR SLABS THAT SHALL RECEIVE MOISTURE SENSITIVE FLOORING: FTG -MATCH a. CONTRACTOR SHALL WORK WITH THE READY MIX SUPPLIER TO PROVIDE A MIX DESIGN THAT WILL FTGDEPTH REINF BE AT OR BELOW 75% RELATIVE HUMIDITY AT THE TIME THE FLOORING IS SCHEDULED TO BE INSTALLED. MIN 3'-4" 3'-4" MAX MIN 3'-4" 1, 4 . 4 . 5 A. 4 . . BTWN OPNGS BTWN OPNGS b. DO NOT USE LIGHTWEIGHT AGGREGATES. (FTG OPENING C. PROVIDE A MIX WITH GOOD SELF-DESICCATING PROPERTIES. CONSIDER ADDING 2%-4% SILICA 44 4 d. DO NOT HARD TROWEL THE SURFACE BUT INSTEAD PROVIDE A LIGHTLY TROWELLED SURFACE. TYP FTG REINF SEE MASONRY NOTE M20 FOR TESTING REQUIREMENTS OF GROUT TO BE USED TO FILL CORES MATCH TYP OF CMU. FTG REINF SLEEVE (2 SIZES LARGER THAN PIPE) FOR ENTIRE WIDTH OF FTG + 1'-O" MIN EACH SIDE CONCRETE MIX DESIGN SUBMITTALS: SEE FON EACH MIX DESIGN SHALL BE LABELED TO INDICATE THE AREA IN WHICH THE PLAN CONCRETE IS TO BE PLACED (I.E. FOUNDATIONS, SLAB- ON-GRADE, CONSTRUCTION COLUMNS, ETC.). FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS. PROPOSED MIX DESIGN SHALL BE IN ACCORDANCE WITH METHOD 1 OR METHOD 2 OF ACI 301. PROVIDE SUPPORTING DATA IN TABULAR FORM FOR EACH SEPARATE PROPOSED MIX. 3. SUBMIT CONCRETE MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE. REBAR SHALL CONFORM TO ASTM A615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 AND SHALL BE LAPPED MINIMUM ONE FILL ANNULAR SPACES BETWEEN SLEEVES AND PIPES MESH + 2" WHERE SPLICED. ALL REINFORCING SHALL BE DOMESTICALLY WITH A COMPRESSIBLE MATERIAL AS REQUIRED BY THE PRODUCED. ALL REBAR THAT IS TO BE WELDED SHALL BE LOW ALLOY PLUMBING CODE. ASTM A706 GRADE 60. PIPE MUST BE 90° (;10°) TO WALL FTG. SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED): OPTION 2 (SLEEVED) MELDED MIRE FABRIC: ALL OTHER (UNLESS #6 BAR & SMALLER: 48 DIA (12" MIN) SCHEDULED OTHERWISE): #7 BAR & LARGER: 60 DIA C10 FOOTING EXCAVATION DETAIL: REINFORCEMENT IN WALLS, FOOTINGS AND BEAMS SHALL BE CONTINUOUS AND LAPPED 48 BAR DIA AT SPLICE UNLESS OTHERWISE NOTED. HOOK AND LAP LOAD-BEARING ALL CORNER AND INTERSECTING BARS. (SEE REINF DEVELOPMENT DETAIL). MALL - WALL FOOTING 48Φ LAP SPLICE (TYP) PIPE SLEEVE PERPENDICULAR TO EXTEND INTERIOR BARS TO MIN 6" FAR FACE (TYP, NO HOOKS EACH SIDE FOOTING OR CORNER BARS REQ'D) PIPE PARALLEL STD HOOK (TYP) TO FOOTING CORNER BAR (TYP) -(TYP) MATCH OF HORIZONTAL -45° BARS (TYP) SEE GEN NOTES FOR 45° BEARING PLANE (ZONE OF INFLUENCE) DO NOT EXCAVATE WITHIN THIS REQ'D COVER (TYP) INTERSECTION CORNER

360 LAP -2" CLR EL SEE PLAN + (TYP) FTG REINF (SEE SCH) REINF SAME AS THAT IN FDN SCH - FTG REINF (SEE SCH)

BASE CONSTRUCTION PRICE SUBMITTED BY CONTRACTOR/SUBCONTRACTOR SHALL INCLUDE 1000# OF BOTH #5 AND #6 REINFORCING STEEL AND 100 MAN HOURS (TOTAL) OF LABOR FOR INSTALLATION OF THIS REINFORCING AS DIRECTED BY THE



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DESCRIPTION DATE

Collier County Fire & EMS Station #74

Golden Gate Estates



Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

DRAWN BY: TC

STRUCTURAL GENERAL **NOTES**

CHECKED BY: BE/MK

STRUCTURAL GENERAL NOTES

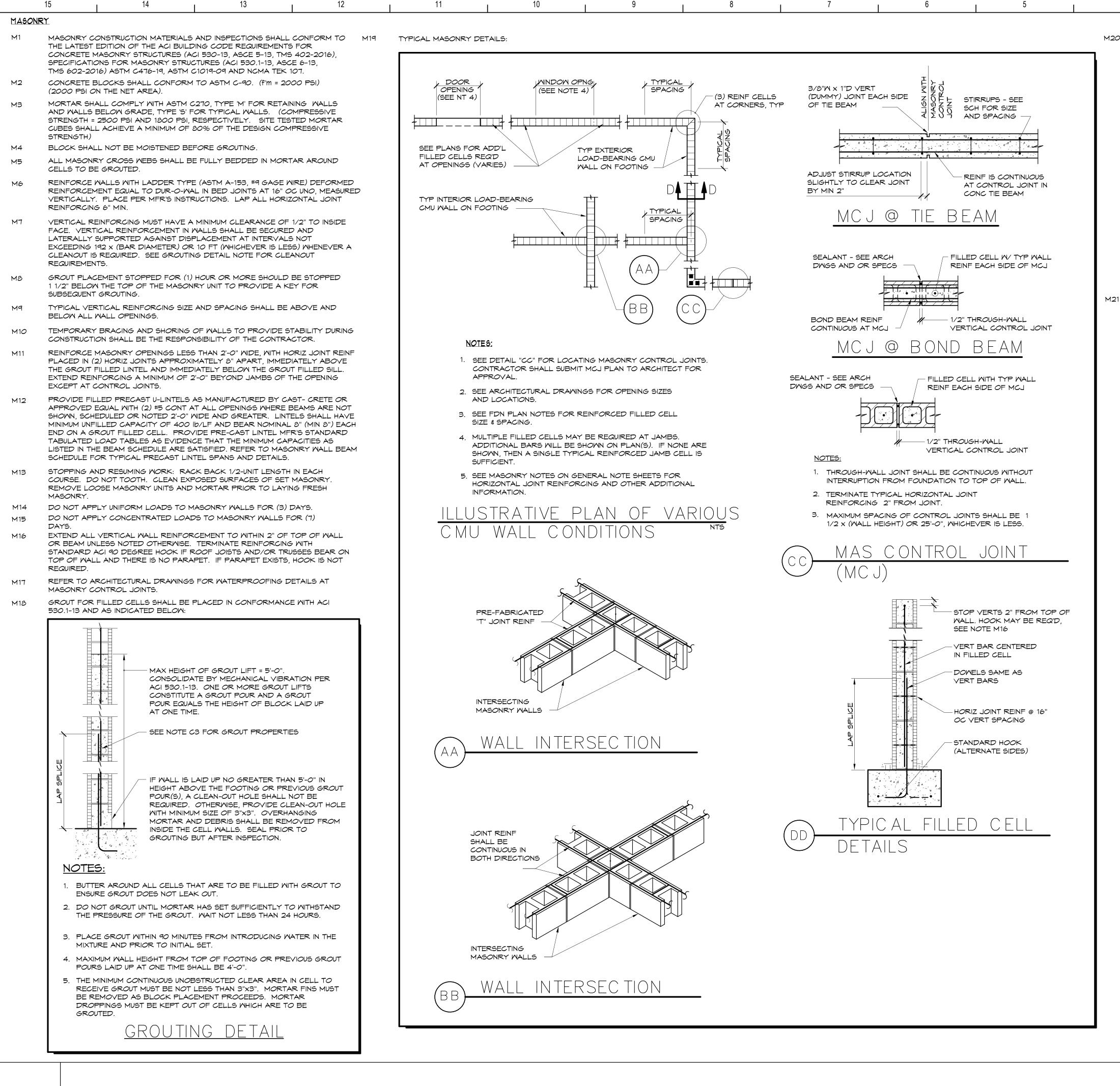
3/4" = 1'-0"

REINF DEVELOPMENT DETAIL

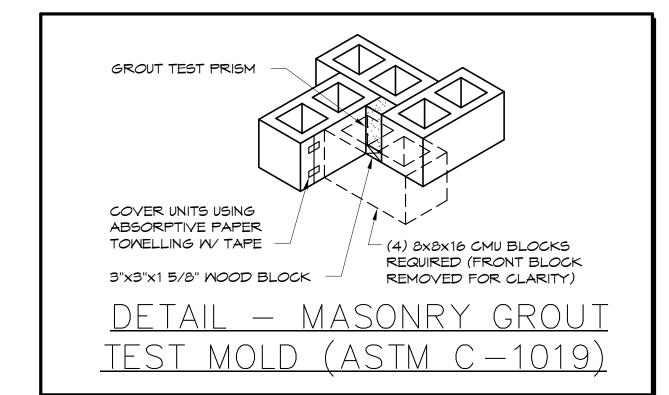
BID SET 01.20.2023

<u>Detail - footing</u>

EXCAVATIONS



JOB SITE MIXING OF GROUT SHALL NOT BE PERMITTED. TESTING SHALL CONFORM TO ASTM C1019. SEE TEST MOLD DETAIL BELOW. SEE SCHEDULE UNDER CONCRETE NOTES FOR COMPRESSIVE STRENGTH AND SLUMP REQUIREMENTS.



MINIMUM LAP SPLICES FOR REINFORCED CMU PER SEVENTH EDITION (2020) FBC FOR LRFD DESIGNS.

CI	MU WALL	S WITH	H CENTERED VERTICAL REINFORCING						
#4	#5	#6	#7	#8	#9 (NOTE 1)	#10 (NOTE 2)			
15"	23"	35"	48"	72"	82"				

CMU WALLS WITH <u>EACH FACE</u> VERTICAL REINFORCING								
#4	#5	#6	#7	#8	#9 (NOTE 1)	#10 (NOTE 2)		
23"	36"	54"	63"	72"	82"			

NOTES:

- #9 BARS ARE NOT ALLOWED IN 8" CMU BUT ACCEPTABLE FOR 10"
 AND 12" CMU. MAXIMUM BAR DIAMETER SHALL NOT EXCEED ONE-EIGHTH OF THE NOMINAL WALL THICKNESS.
- 2. #10 BARS SHALL BE SPLICED USING MECHANICAL CONNECTORS AND SHALL ONLY BE ALLOWED IN 12" CMU.
- 3. EPOXY COATED BARS SHALL NOT BE USED.

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BORA ERBILEN, P.E.

Florida Professional Engineer No. 55996

REVISIONS

REVISIONS

DESCRIPTION

DATE

Collier County Fire & EMS
Station #74

Collier County

Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

DRAWN BY: TC

Golden Gate Estates

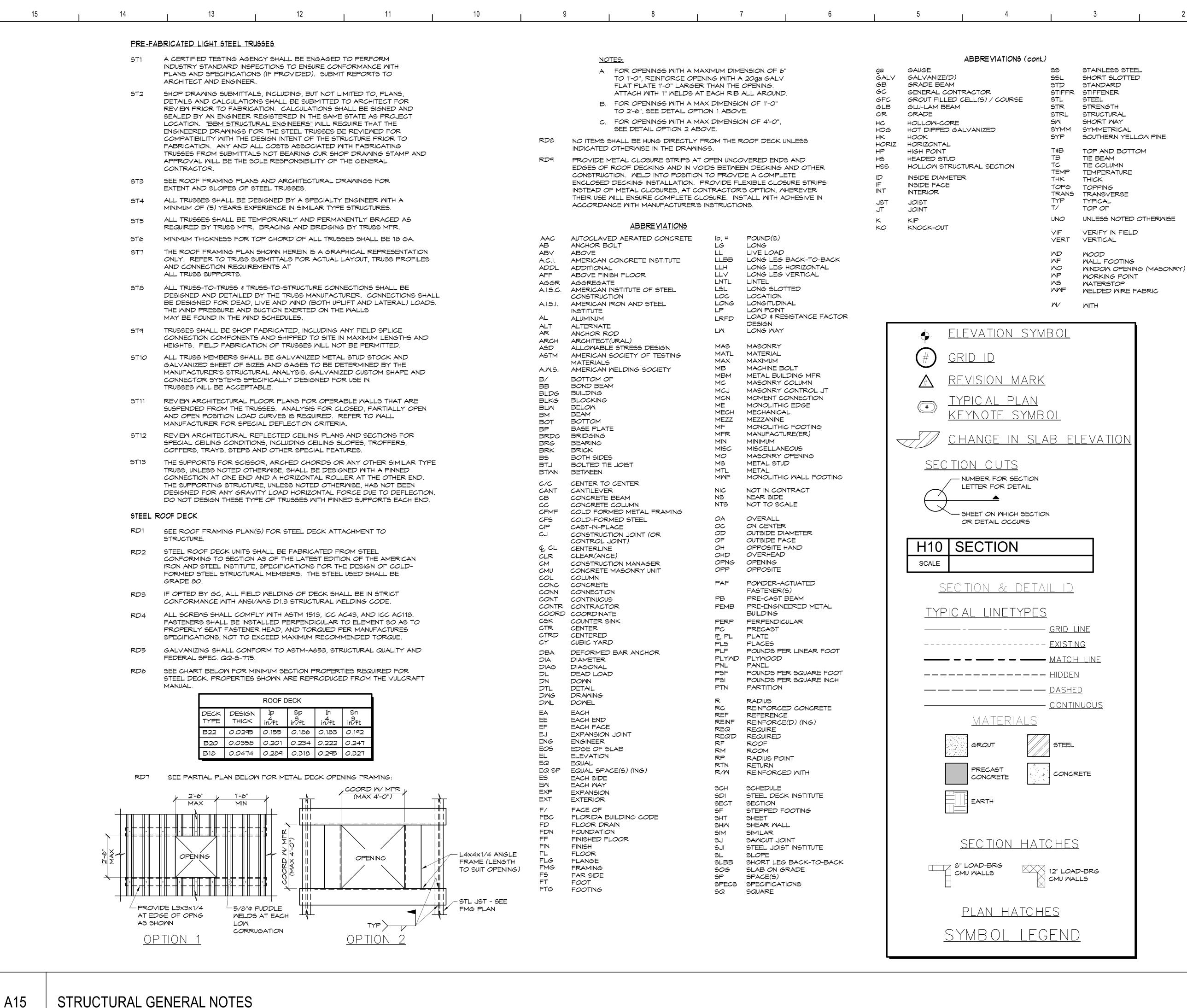
N BY: TC CHECKED BY: BE/MK

STRUCTURAL GENERAL NOTES

S003

A15 STRUCTURAL GENERAL NOTES

3/4" = 1'-0"



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Fort Myers, FL 33907
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DATE

BORA ERBILEN, P.E.
Florida Professional Engineer No. 55996

REVISIONS

MARK DESCRIPTION

Collier County Fire & EMS
Station #74

| Station #74

Golden Gate Estates



Collier County Division of Facilities Management 3335 Tamiami Trail E, Suite 101 Naples, FL 34112

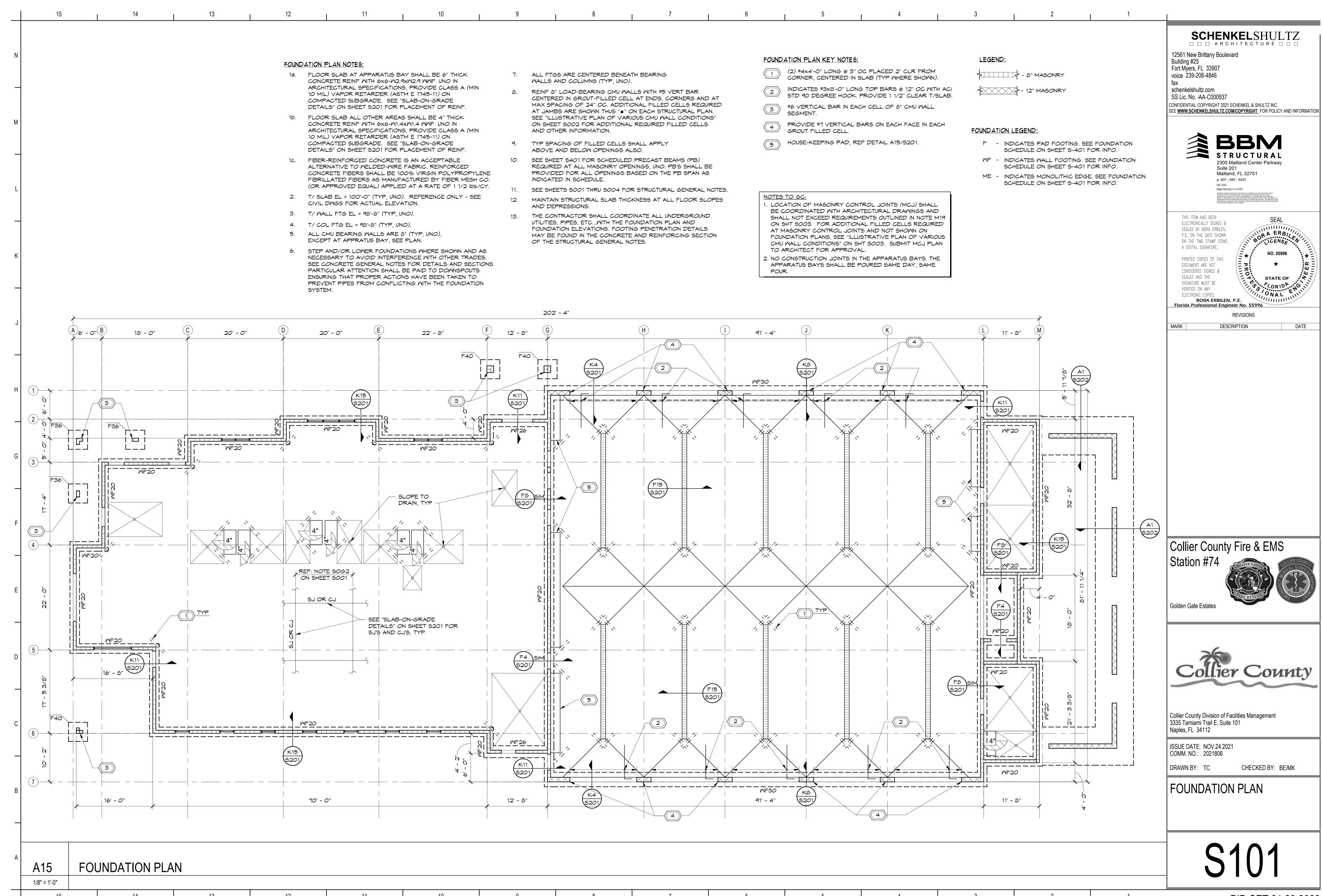
ISSUE DATE: NOV.24.2021 COMM. NO.: 2021806

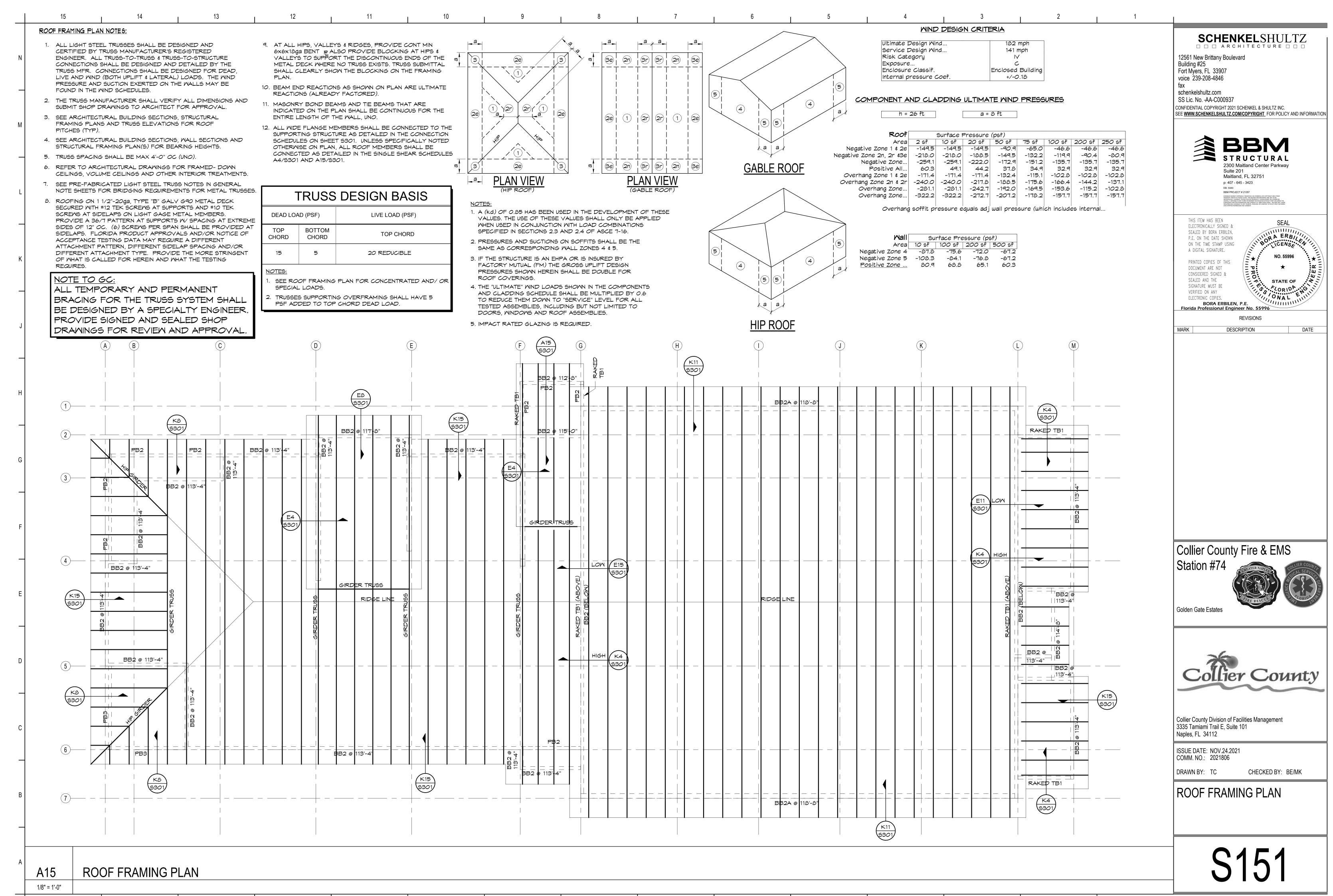
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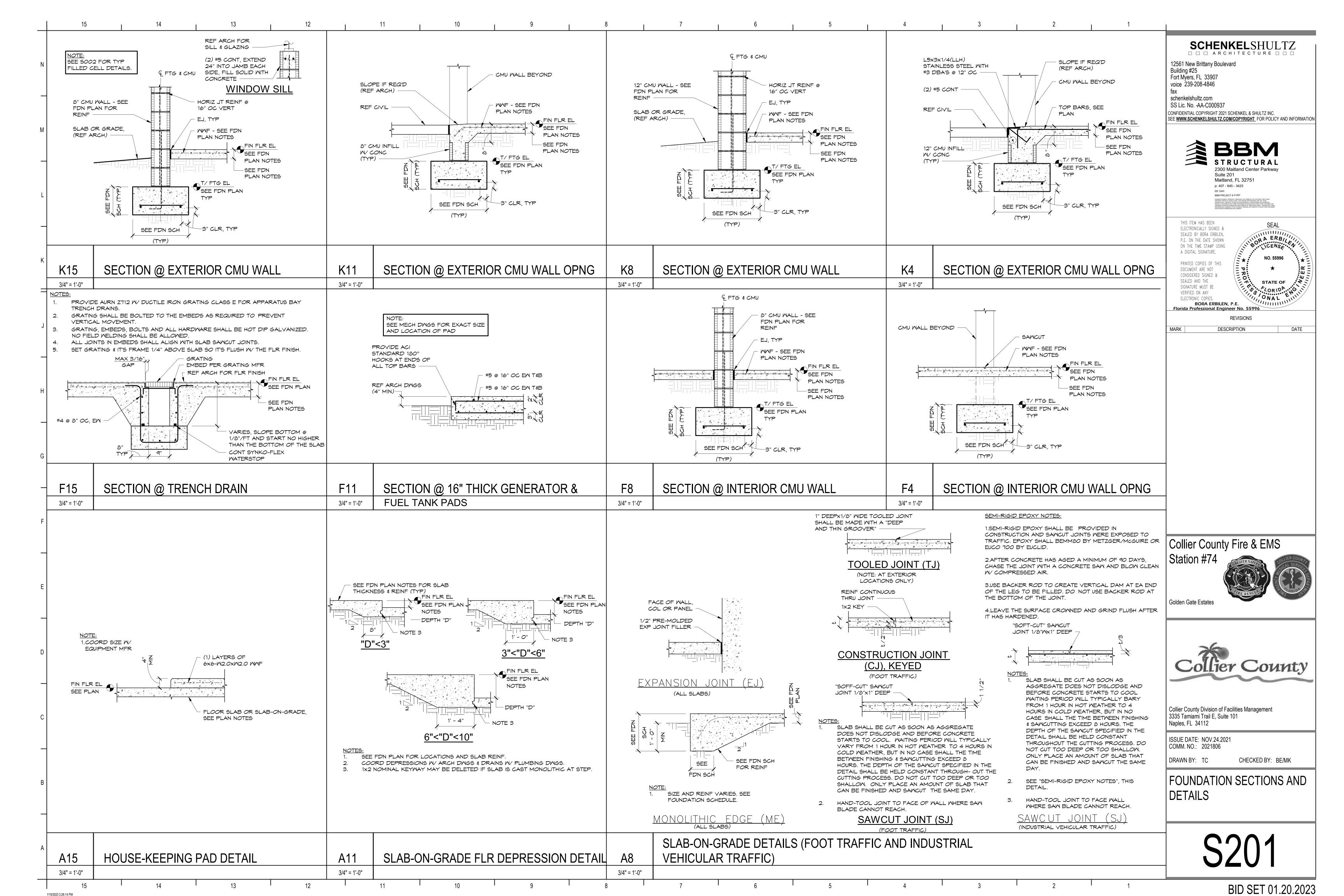
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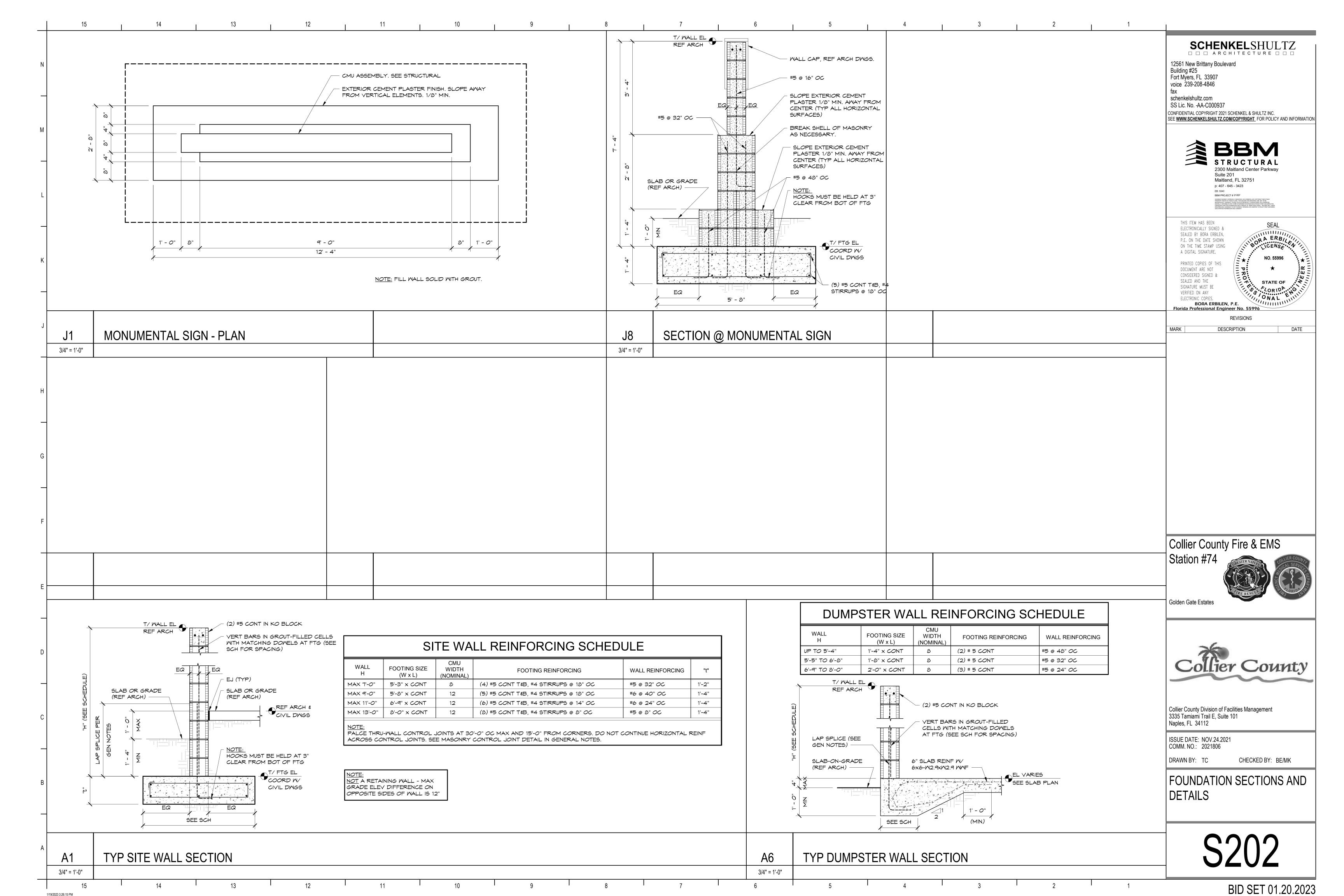
STRUCTURAL GENERAL NOTES

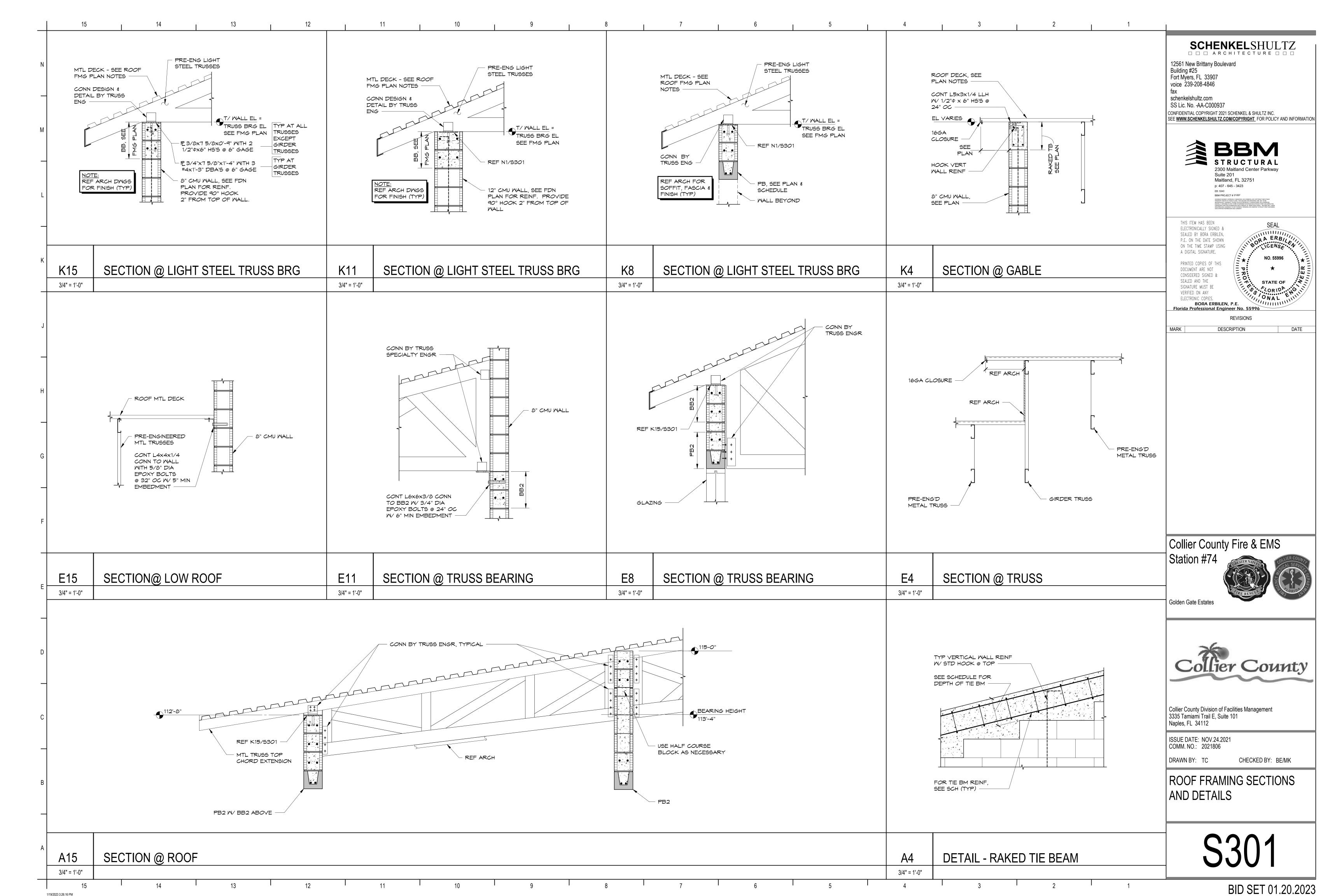
S004

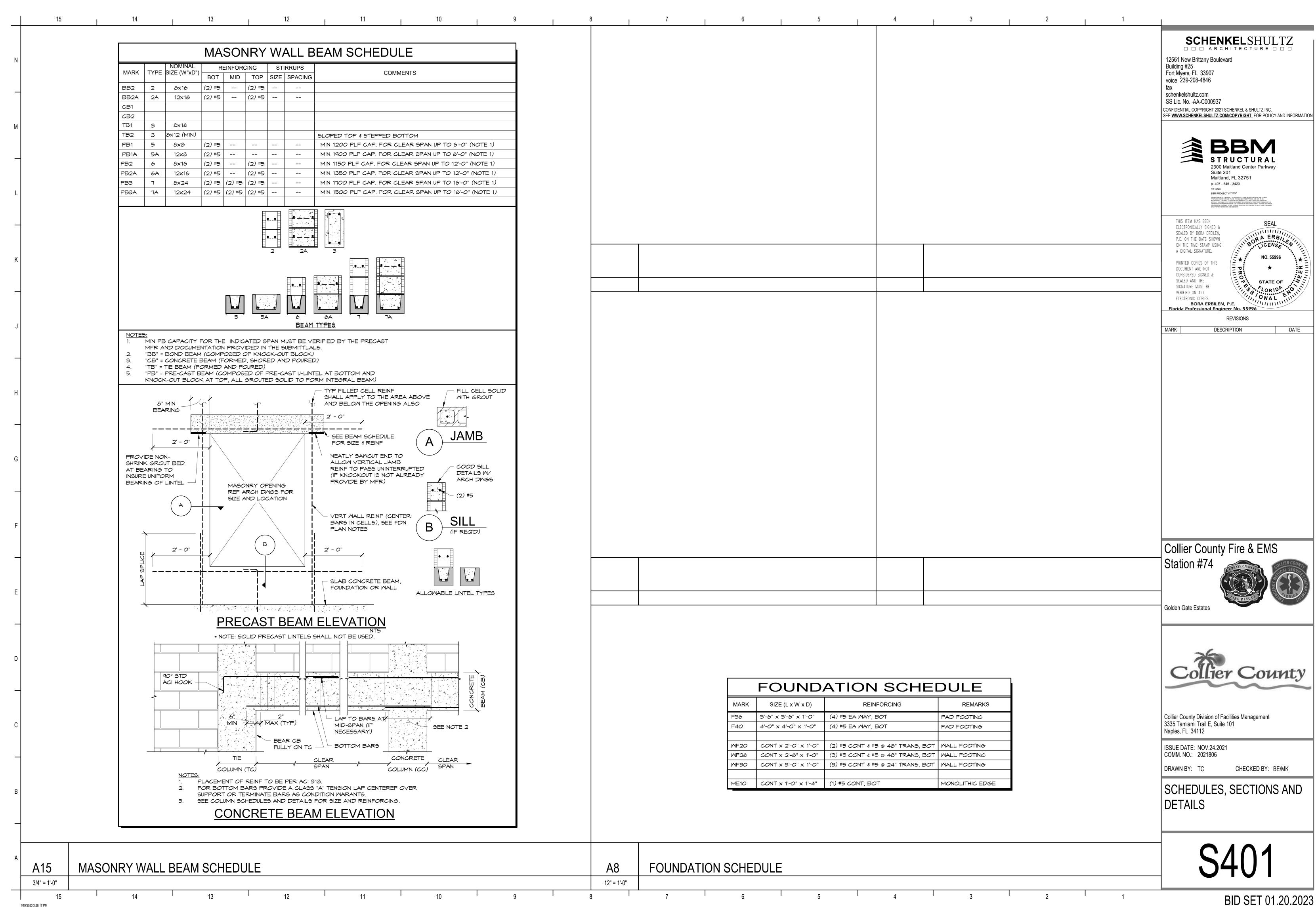


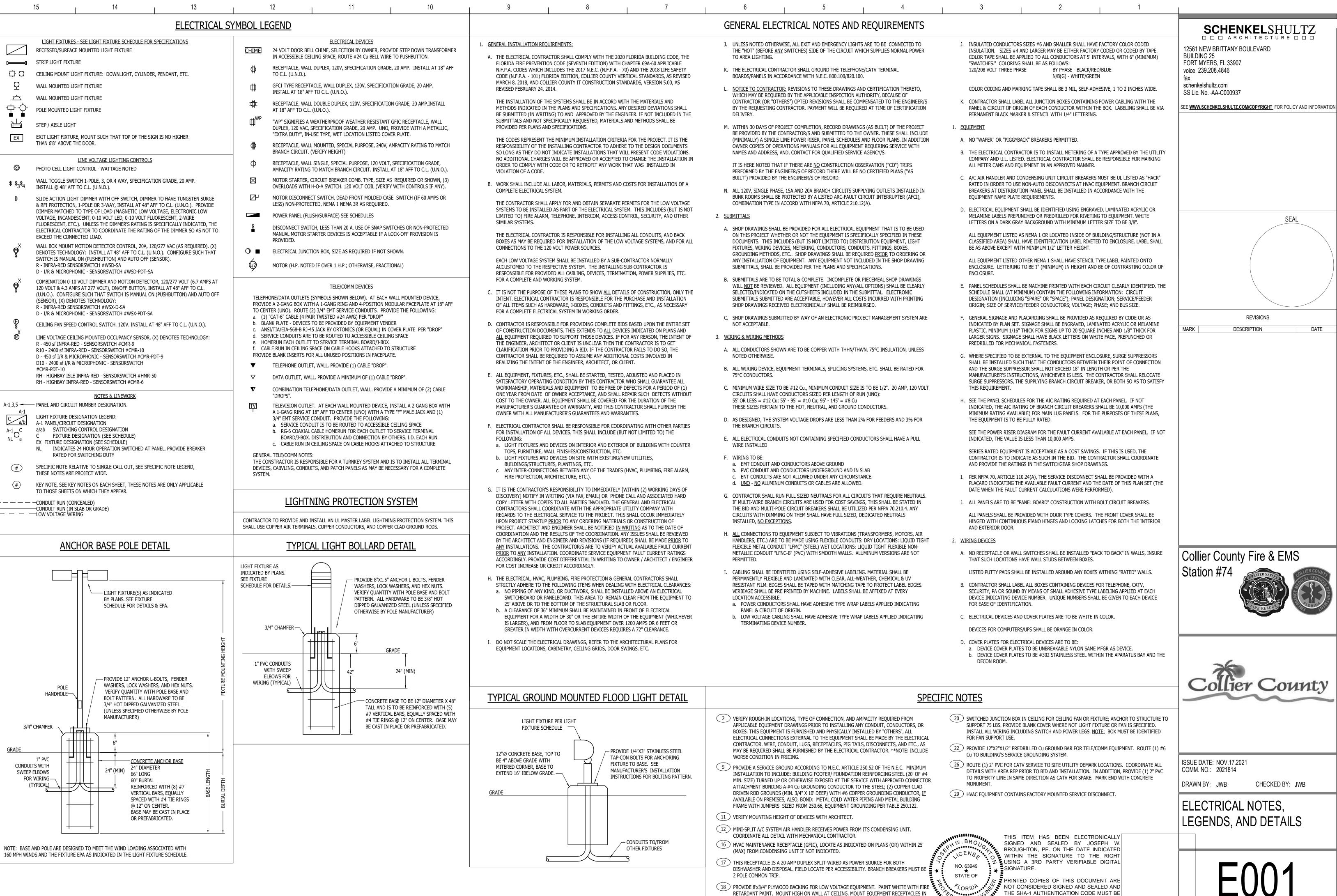












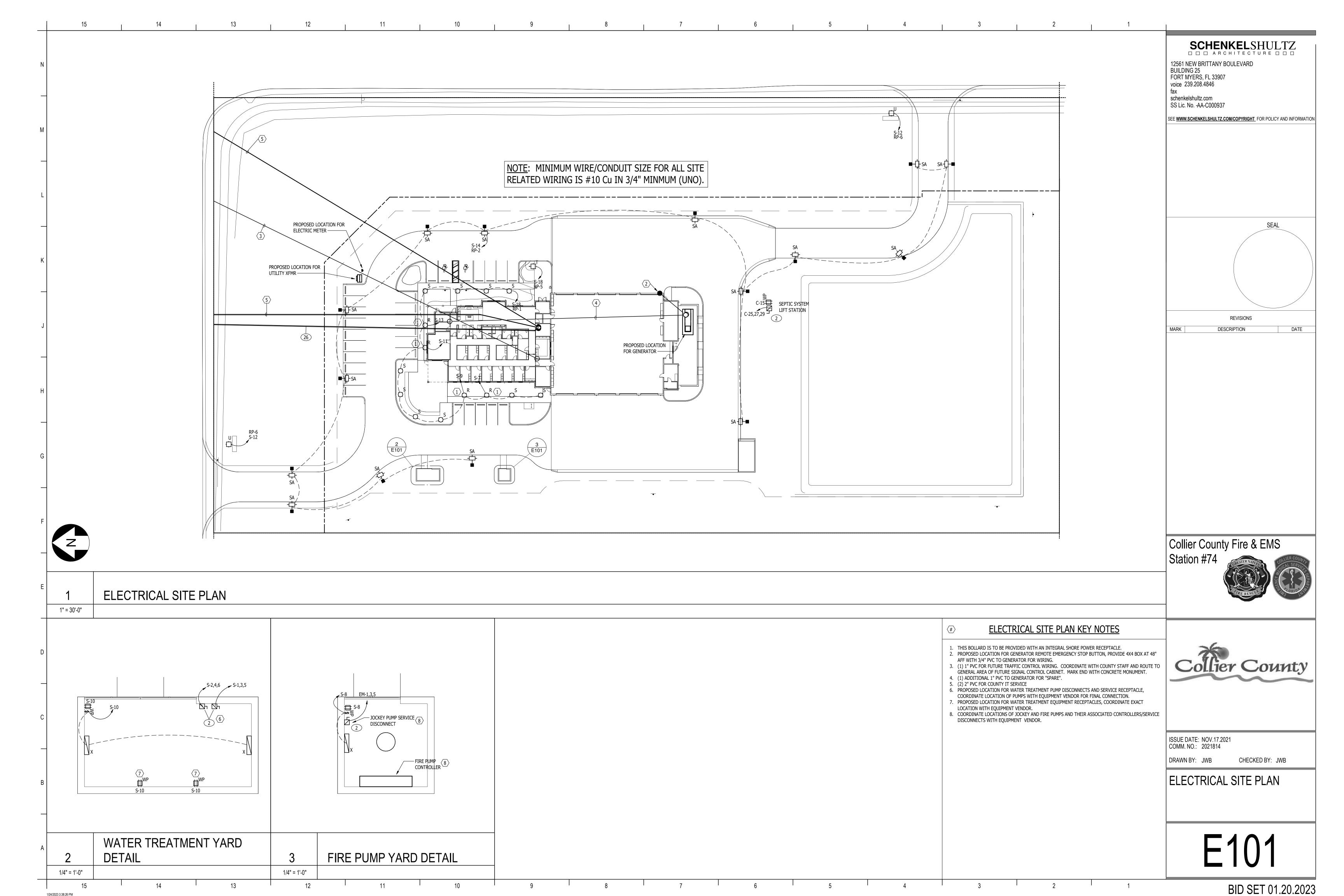
CENTER OF BOARD.

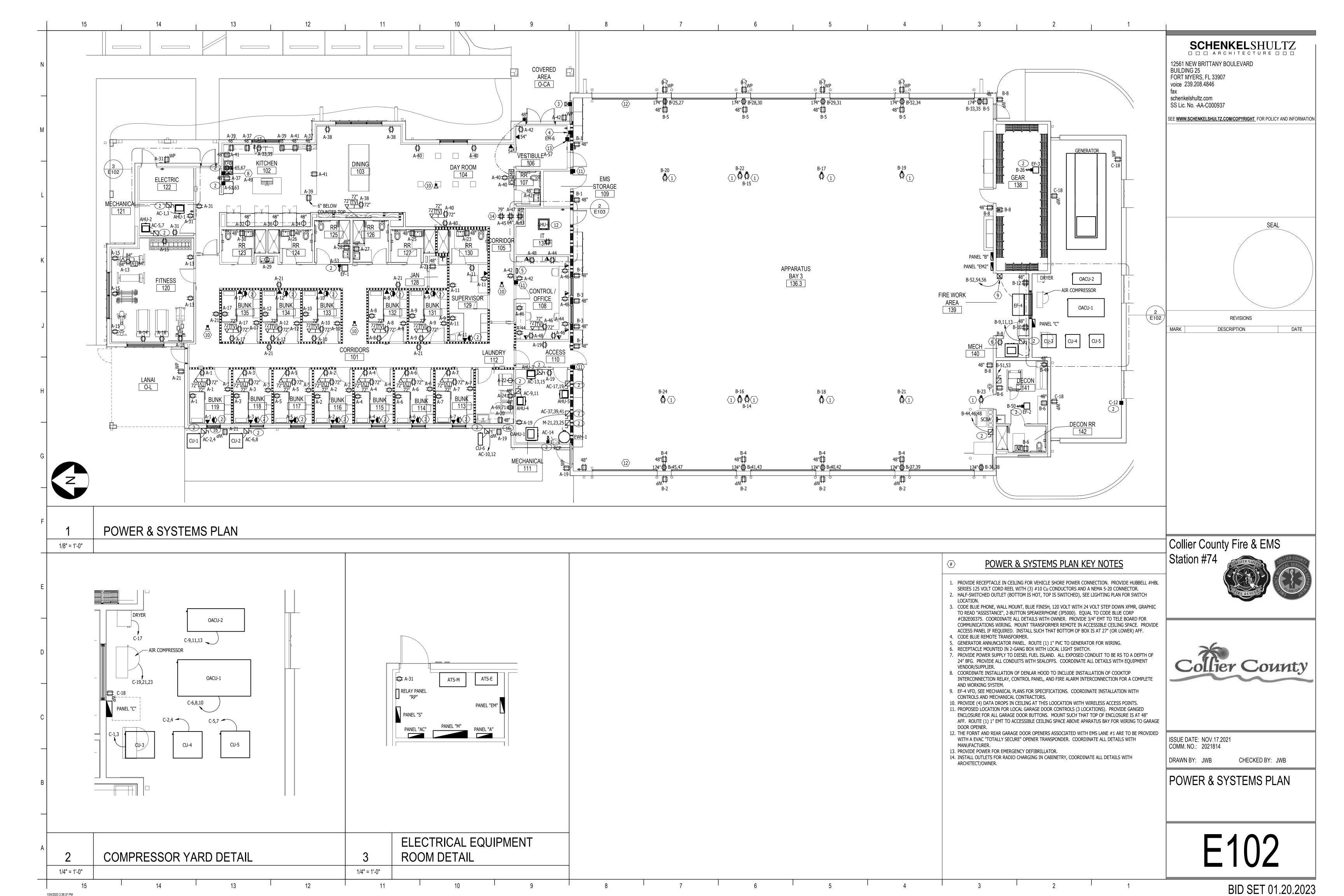
SCHENKELSHULTZ

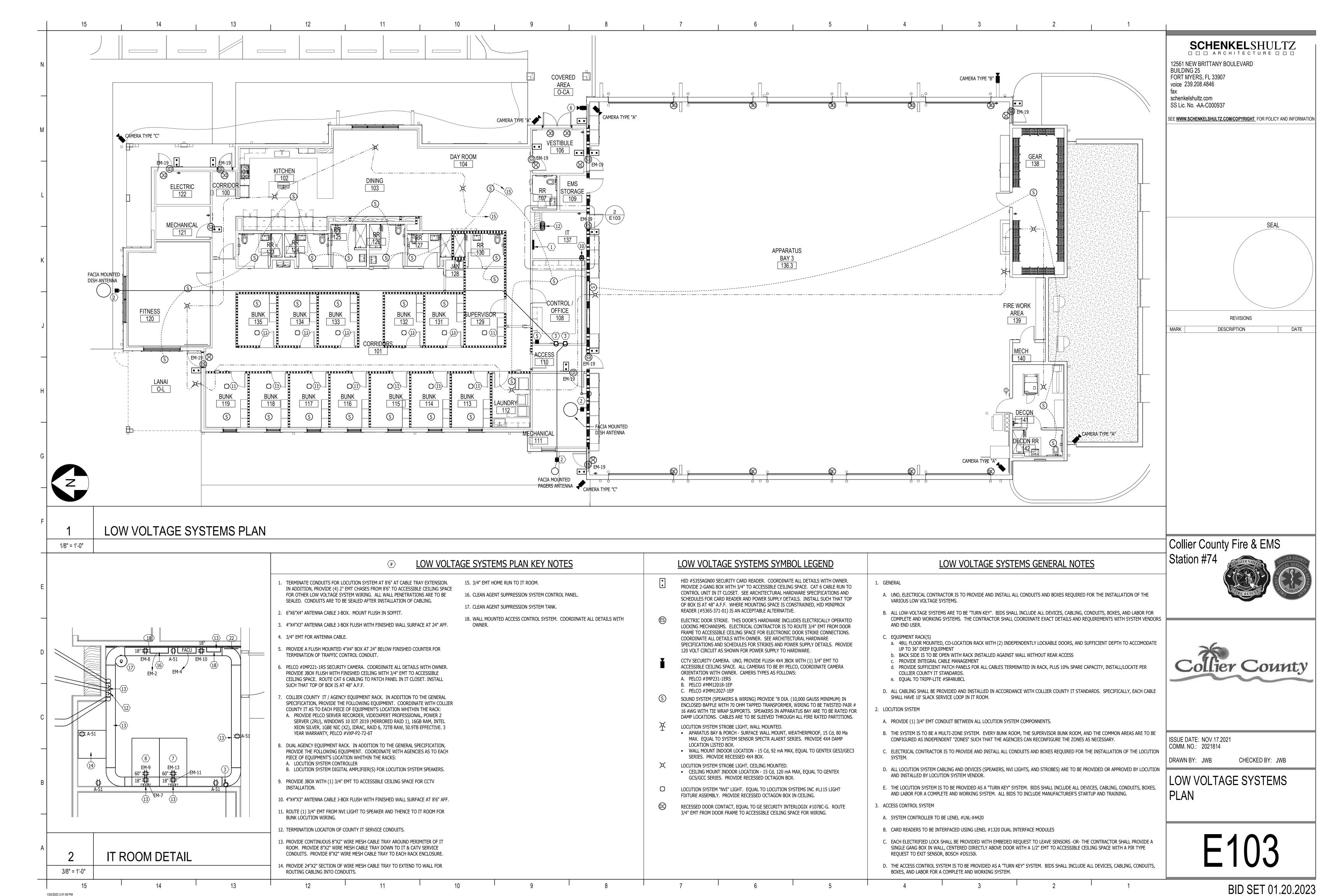
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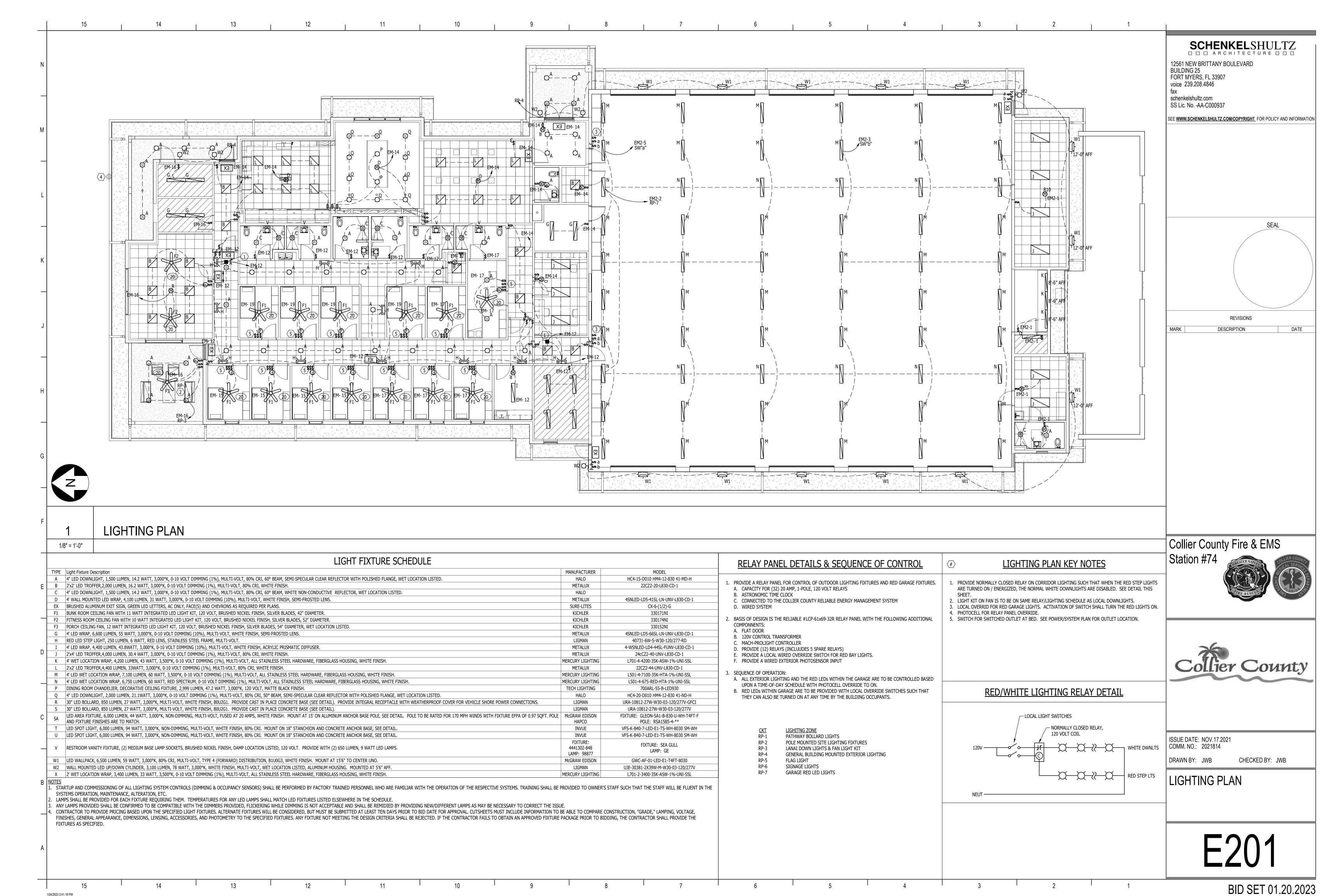
VERIFIED ON ANY ELECTRONIC COPIES.

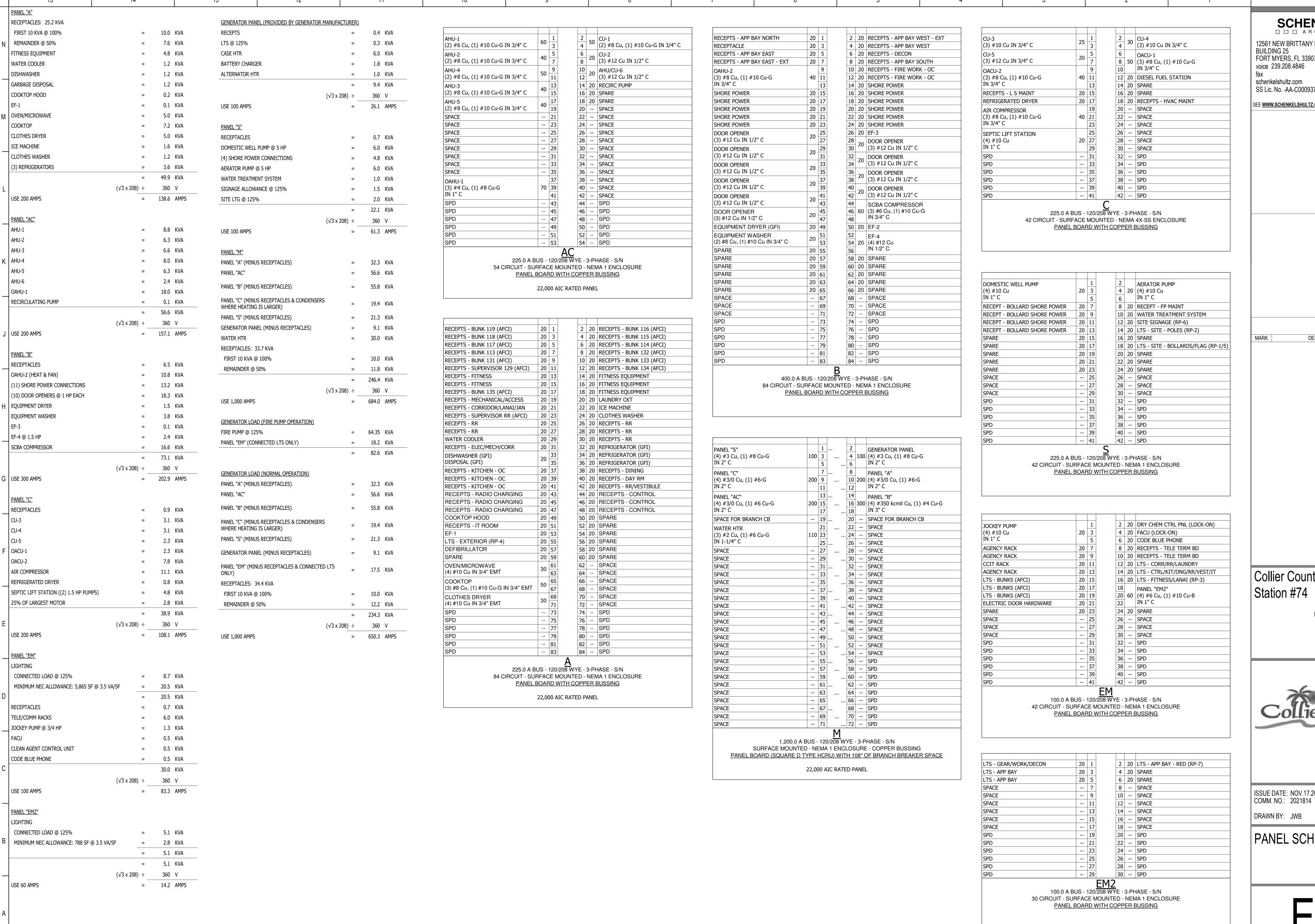
LEGENDS, AND DETAILS











SCHENKELSHULTZ

□ □ □ ARCHITECTURE □ □ 12561 NEW BRITTANY BOULEVARD

FORT MYERS, FL 33907 voice 239.208.4846

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REVISIONS DATE

DESCRIPTION

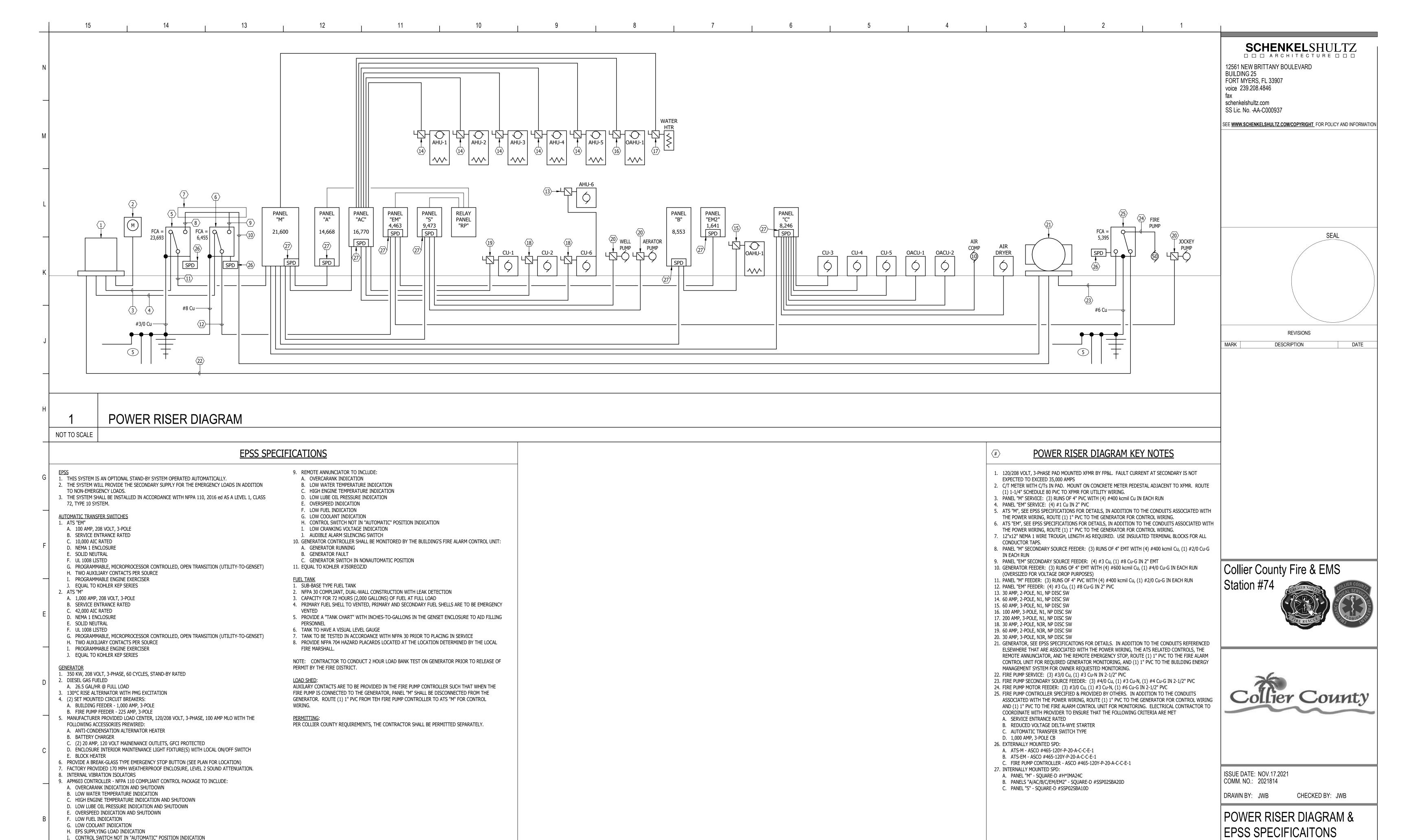
Collier County Fire & EMS



ISSUE DATE: NOV.17.2021 COMM. NO.: 2021814

CHECKED BY: JWB

PANEL SCHEDULES



J. HIGH BATTERY VOLTAGE INDICATION
 K. LOW CRANKING VOLTAGE INDICATION
 L. LOW VOLTAGE IN BATTERY INDICATION
 M. BATTERY CHARGER FAILURE INDICATION

O. LAMP TEST

Q. REMOTE EMERGENCY STOP

N. LOW STARTING HYDRAULIC PRESSURE INDICATION

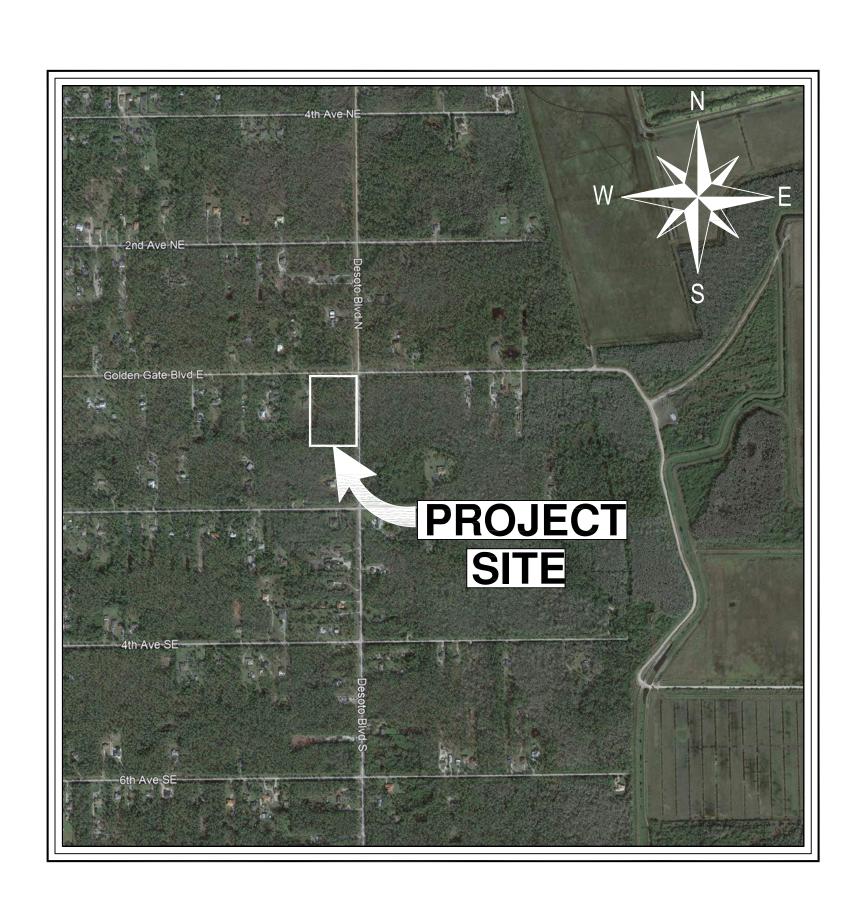
P. CONTACTS FOR LOCAL AND REMOTE COMMON ALARM

R. BACnet Interface for Connection to Reliable Controls energy management

SYSTEM - FOR REMOTE MONITORING OF ALL OUTPUTS NOTED ABOVE

EXTERIOR LIGHTING FOR EMS STATION # 74





INDEX OF LIGHTING PLANS

SHEET NO. SHEET DESCRIPTION

COVER

L-2 POLE DETAIL, STATISTICS AND LUMINAIRE SCHEDULE

L-3 THRU L-6 LUMINAIRE SPECIFICATIONS AND LUMINAIRE PROPERTIES

> PLAN **L-7**

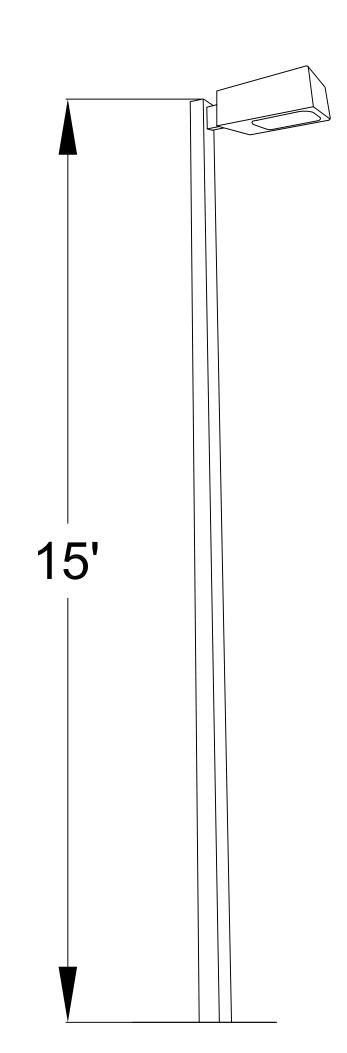


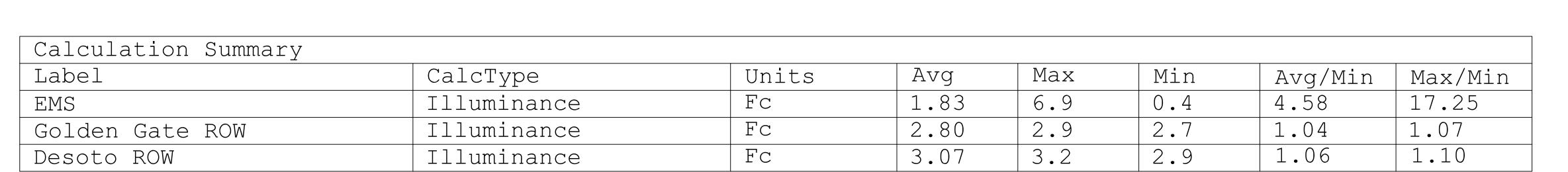
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MAY BE CONSIDERED WHEN OBTAINING SCALED DATA.

	DATE	BY	REVISIONS	DEGLOVIED DV	D 0 E	45550\(\(\in \)
JOB NO.				DESIGNED BY	R.C.F.	APPROVED BY:
F2109.13				DRAWN BY	W.L.F.	REID C. FELLOWS
1 2 109.13				CHECKED BY	R.C.F.	P.E. 61673









Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Description	Lum. Watts	LLF			
-	15	SA	SINGLE	GLEON-SA1B-830-T4FT	44	1.000			
	4	B1	SINGLE	RA-10811-W30 Rev 2	23.1	1.000			
	10	B2	SINGLE	RA-10811-W30 Rev 2	23.1	1.000			
	13	D	SINGLE	GWC-AF-01-LED-E1-T4FT-8030	59	1.000			
	2	G	SINGLE	JE-30381-M-W30	78	1.000			

	DATE	BY	REVISIONS	DEGLONED DV	D 0 F	4 DDD 01/ED D1/
JOB NO.				DESIGNED BY	R.C.F.	APPROVED BY:
F2109.13				DRAWN BY	W.L.F.	REID C. FELLOWS
F2109.13				CHECKED BY	R.C.F.	P.E. 61673



Submitted by West Coast Lighting

WEST CORST LIGHTING

Catalog Number:

Construction

Aluminum Casting

277-GFCI

Notes:

Job Name: EMS 25 Hacienda Lakes Architect: BSSW Architects Inc. (Naples) Engineer: Burgess Brant Consulting Engineers (Fort Myers)

URA-10812-27WLED-W30-01-120/

Type:

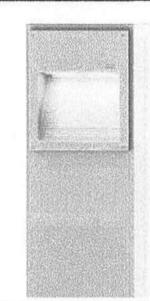
URA-10812

Rado 4 Bollard

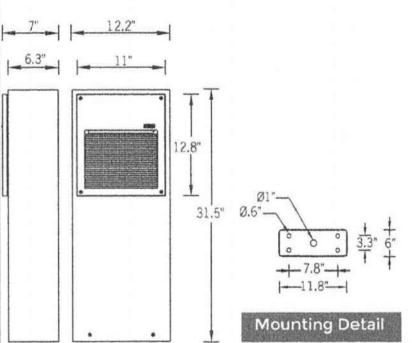


WCL18-4293

B1



27w LED 853 Lumens IP65 • Suitable For Wet Locations IK04 • Impact Resistant (Vandal Resistant) Veight 23 lbs







REVISIONS

lines and excellent heat dissipation. Pre paint 8 step degrease and phosphate process that includes deoxidizing and etching as well as a

product painting. Memory Retentive -Silicon Gasket purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of

zinc and nickel phosphate process before

Less than 0.1% copper content - Marine

Pressure die casting provides excellent

Grade 6060 extruded & LM6 Aluminum High

mechanical strength, clean detailed product

Thermal management

use and compression.

LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

BUG Rating B0 - U2 - G1

Surge Suppression

Standard 10kv surge suppressor provided with all fixtures.

All Ligman products go through an extensive finishing process that includes fettling to nprove paint adherence.

UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Hardware

Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes

Tapped holes are infused with a special antiseize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and

Crystal Clear Low Iron Class Lens Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED

Precise optic design provides exceptional light control and precise distribution of light.

Lumen - Maintenance Life

L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

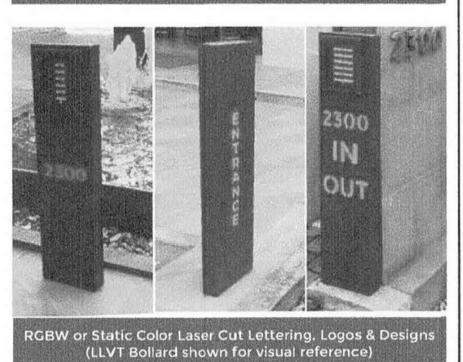
Sturdy classic bollard pathway and stair luminaire. Simple pleasing aesthetic and sturdy construction, perfect for delineating perimeter applications with the impressive optic choices.

A range of rectangular bollards, with regressed LEDs providing excellent glare control. Suitable for illuminating pathways, driveways and squares. Color temperature 2700K, 3000K, 3500K and 4000K, LED CRI >80 and lifetime 50,000 Hours. Low copper content die-cast aluminum housing with a high corrosion resistance.

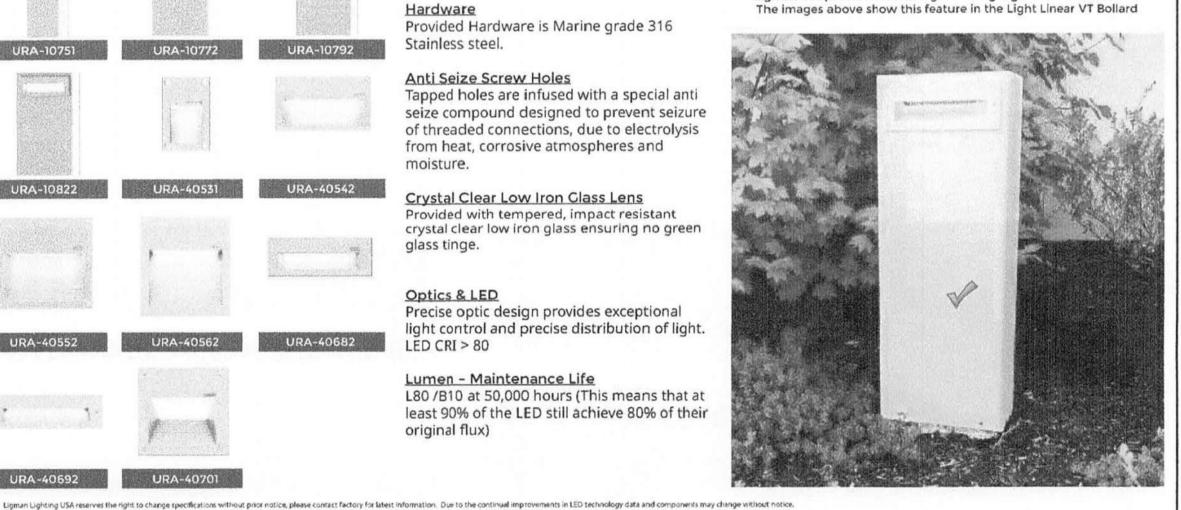
Provided with special injection molded "fit for This fixture is supplied completely wired with powercord and waterproof gland from the driver enclosure to the base of the column to ensure quick trouble-free installation. Custom bollard heights are available, please specify.

> Custom wattages can be provided to suit customer and Title 24 requirements. (Specify total watts per fixture)

Additional Options (Consult Factory For Pricing)



Ligman can provide custom logos and signage in the Rado Bollard



Submitted On: Aug 22, 2019

Rado 4 Bollard LIGHTING USA with URA-10812 **PROJECT** DATE NOTE QUANTITY ORDERING EXAMPLE | URA-10812 - 27w - W30 - 02 - 120/277V **URA-10812** WHITE LAMP LED COLOR **FINISH COLOR** VOLTAGE 01 - BLACK RAL 9011 W27 - 2700K 120/277V 27w LED 02 - DARK GREY RAL 7043 W30 - 3000K Other - Specify 853 Lumens 03 - WHITE RAL 9003 W35 - 3500K 04 - METALLIC SILVER RAL 9006 W40 - 4000K 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 器度 事 07 - CUSTOM RAL ADDITIONAL OPTIONS HCT - Custom Bollard Height DIM - 0-10v Dimming NAT - Natatorium Rated GFCI - GFCI Box AMB - Turtle Friendly Amber LED WHERE NOTED SITE FIT WITH SHORE POWER OUTLET LASER CUT LETTERING (Carnot be used in conjunction with security builtard) RGBW - Color Changing RGBW SC - Static Color (Choose Color e.g Red, Blue etc.) WORDS BACK WORDS FRONT CONSULT FACTORY FOR CUSTOM DESIGNS, LOGOS AND OTHER SPECIAL REQUIREMENTS FACTORY DRAWINGS WILL BE PROVIDED PRIOR TO PRODUCTION DN: CN=Reid Fellows er=A01410C000017937EA40FD00015A65. O=Florida, C=US Collier County **Reviewed and Approved For:** Permit Issuance PL20210001092 Date: 4/7/2022 Lano

2/2

Catalog Number:

277-GFCI

Notes:

Note: URA-10811

has been replaced

URA-10812-27WLED-W30-01-120/

ubmitted by West Coast Lighting

URA-10812

WEST CORST LIGHTING

Job Name:

EMS 25 Hacienda Lakes

Architect: BSSW Architects Inc. (Naples)

Engineer: Burgess Brant Consulting Engineers (Fort Myers)

Type:

WCL18-4293

LIGMAN

B1

TRANSPORTATION FORT MYERS, FLORIDA 33901-9356
(239) 278-3090
CERTIFICATE OF AUTHORIZATION: #27003

Index Page

2726 OAK RIDGE COURT, SUITE 503

Submitted On: Aug 22, 2019

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

COLLIER EMS #74 LIGHTING LUMINAIRE SPECIFICATIONS AND LUMINAIRE PROPERTIES

Intertek

SHEET

Index Page

DATE BY



Reviewed and Approved For:

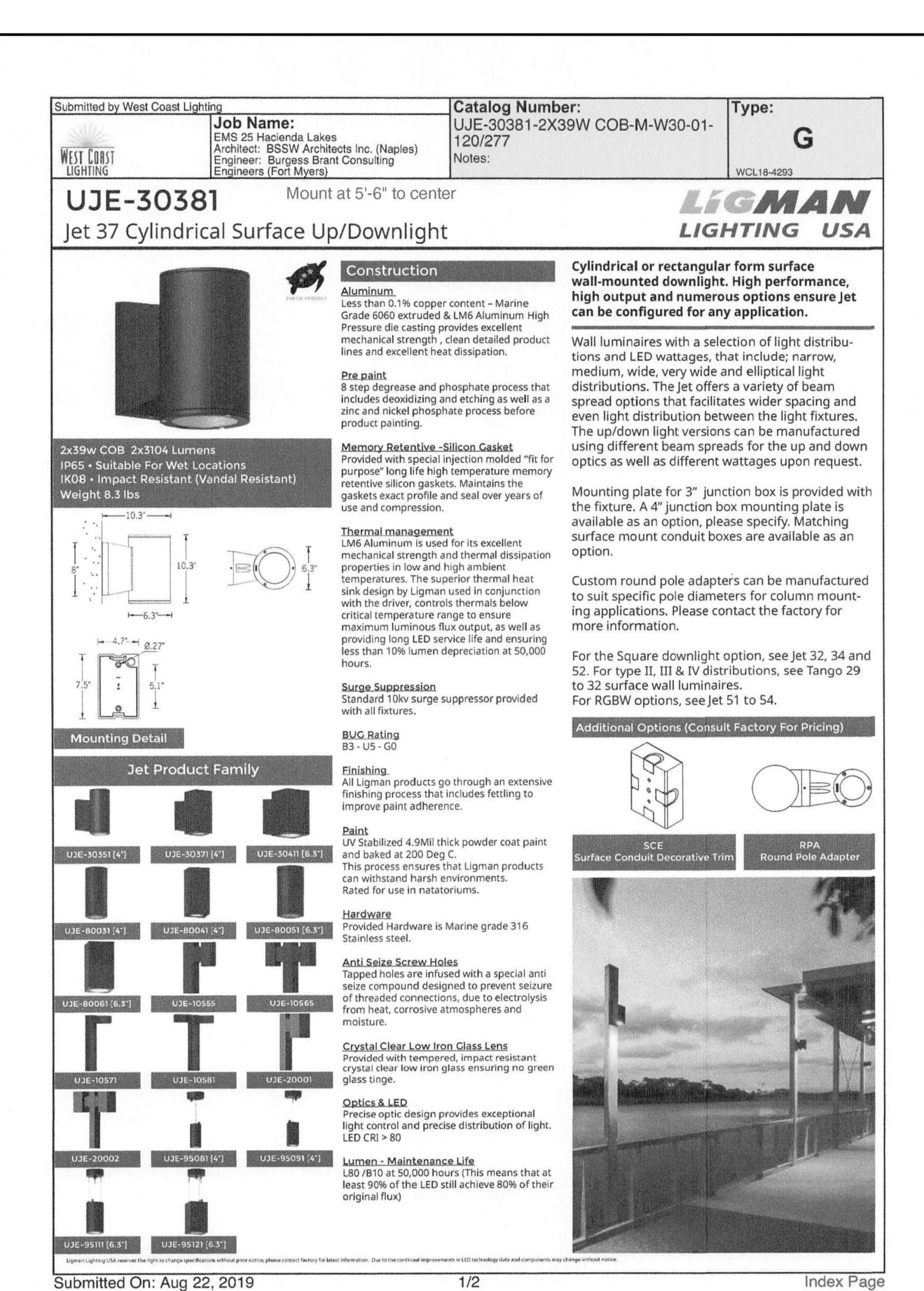
Permit Issuance

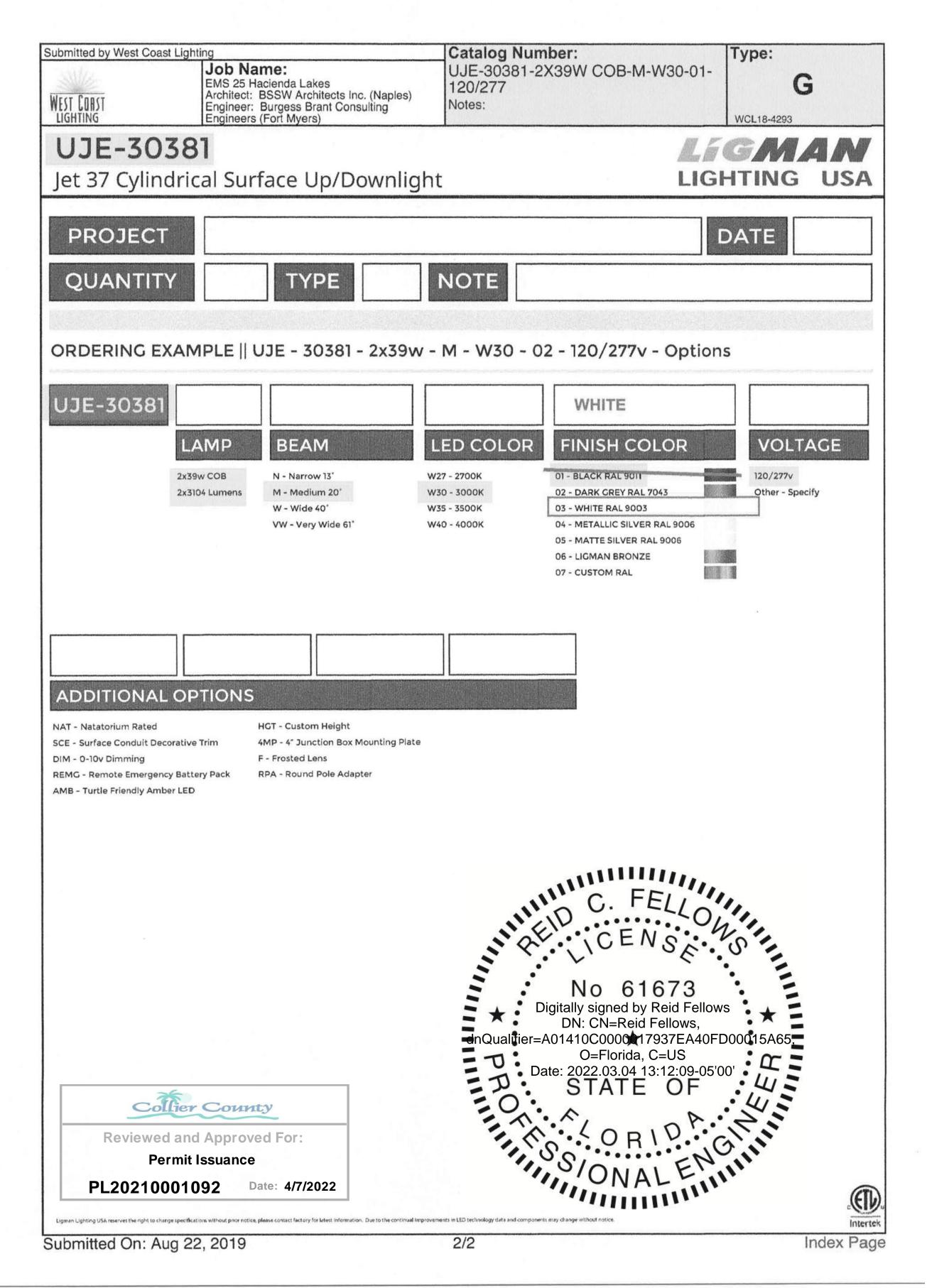
PL20210001092 Date: 4/7/2022

Ubmitted by West Coast L	Job Name: EMS 25 Hacienda Architect: BSSW	Architects Inc. (Naples) s Brant Consulting	GWC-AF-0	imber: 1-LED-E1-T4FT-BK-8030	Type: D
		15'-6" to center, Ea	st & West wa	lls.	110210
	Mount at	12'-0" to center, So	uth wall.	McGr	aw-Edison
the Galleon ar style to lightin wall surfaces i Galleon family patented, high	ea and site luminaire br g applications. Flexible n both an upward and c of LED products delive -efficiency AccuLED Op	opearance is complementar inging a modern architectur mounting options accommo lownward configuration. Th r exceptional performance v tics™, providing uniform an lots, building and security li	al podate e vith ad ghting		Type Date
SPECIFICATIO	N FEATURES				
thermal performal wall aluminum with integral eto provide suprigidity and an Overall construibration test integrity. UPL with the UPL of mount uplight additional profile additional profile according. Optics Choice of thirt efficiency According are presented the dist efficiency and AccuLED Opticial distributions with the custo requirements. 4000K (+/- 275 70 CRI. Option and 6000K CC	re thermally optics for optimal mance. Heavy in housing die-cast external heat sinks erior structural IP66 rated housing. Lection passes a 1.5G to ensure mechanical GHTING: Specify option for inverted	lumen maintenance expect 60,000 hours. Available in 1A drive current and option 1200mA, 800mA, and 600m currents. Electrical LED drivers are mounted for maintenance. 120-277V 347V or 480V 60Hz operation 480V is compatible for use 480V Wye systems only. Downward of the systems only are provided standard with dimming. An optional Eatt proprietary surge protection module is available and do to withstand 10kV of transline surge. The Galleon Would be suitable for the surge. The Galleon Would be suitable for the surge. The Galleon with ambient temperature exceeding 40°C, specify the (High Ambient) option. Emegress options for -20°C are environments and occupations are available.	standard Gaske mal mount mA drive to 4" j Wall " for qu two ca or ease black of 50/60Hz, screws on, access with rivers Finis n 0-10V Housin for sup jent fade a all includ or white, ambient match s McGra e HA Colors selections match s selections match s McGra e HA Colors selections match s selections	ted and zinc plated rigid steel ting attachment fits directly allow or wall with the Galleon Hook-N-Lock" mechanism ick installation. Secured with aptive corrosion resistant oxide coated allen head set is which are concealed but sible from bottom of fixture. In the finished in super durable polyester powder coat 2.5 mil nominal thickness perior protection against and wear. Standard colors to black, bronze, grey, dark platinum and graphite ic. RAL and custom color es available. Consult the inw-Edison Architectural is brochure for the complete on.	GWC GALLEON WALL 1-2 Light Squares Solid State LED WALL MOUNT LUMINAIRE
DIMENSIONS			7		
15-11	16" [400mm]	1/2" 			
HOOK-N-LOC					
		0.		UIL LN IPI ISI De EI	ERTIFICATION DATA L/CUL Listed 179 / LM80 Compliant 66 Housing 0 9001 signLights Consortium® Qualified* NERGY DATA extronic LED Driver
BATTERY BA	CKUP AND THRU-BRAN	СН ВАСК ВОХ		<2	.9 Power Factor 0% Total Harmonic Distortion 0-277V 50/60Hz
	2-1/2 ¹ [63mn			34 44 40 50 SI	7V, 480V 60Hz D°C Min. Temperature °C Max. Temperature °C Max. Temperature (HA Option) HIPPING DATA proximate Net Weight:
15-15/	6" [388mm]———— !	to and the second		27	lbs. (12.2 kgs.)

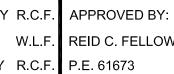
Job Name: EMS 25 Hacienda Lakes Architect: BSSW Architects Inc. (Naples) Engineer: Burgess Brant Consulting Engineers (Fort Myers)						Notes	C-AF-01 s:	3K-8030	D WCL18-4293		
age 2	ND LUMENS										GWC GALLEON WA
Number of	Light Squares	1		ı		Т		-	2		
Drive Curre	ent	600mA	800mA	1.0A	1.2A		600mA	800mA	1.0A	1.2A	
	ower (Watts)	34	44	59	67		66	86	113	129	
	int @ 120V (A)	0.30	0.39	0.51	0.58	-+	0.58	0.77	1.02	1.16	
	ent @ 208V (A)	0.17	0.22	0.29	0.33	-	0.34	0.44	0.56	0.63	
•	ent @ 277V (A)	0.14	0.17	0.23	0.25	1	0.28	0.36	0.42	0.48	
Input Curre	ent @ 347V (mA)	0.11	0.15	0.17	0.20		0.19	0.24	0.32	0.39	
Input Curre	ent @ 480V (mA)	0.08	0.11	0.14	0.15		0.15	0.18	0.24	0.30	
Optics		T						10.000			
T0	4000K/5000K Lume 3000K Lumens	3,975	5,156 4,874	6,381	6,618	-	8,215 7,767	10,075 9,525	12,470	13,680	
T2	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-	-	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	
	4000K/5000K Lume		5,256	6,505	7,135		8,375	10,269	12,710	13,943	
тз	3000K Lumens	4,051	4,969	6,150	6,746	-	7,918	9,710	12,017	13,182	
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-	G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	
	4000K/5000K Lume		5,286	6,542	7,177		8,422	10,329	12,784	14,024	
T4FT	3000K Lumens BUG Rating	4,075 B1-U0-G1	4,998 B1-U0-G2	6,185 B1-U0-G2	6,786 B1-U0-	-	7,963 B1-U0-G2	9,766 B1-U0-G2	12,086 B2-U0-G2	13,259 B2-U0-G3	
	4000K/5000K Lume		5,217	6,458	7,084	-	8,313	10,195	12,619	13,843	
T4W	3000K Lumens	4,023	4,933	6,105	6,698	-	7,860	9,639	11,931	13,088	
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-	G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	
	4000K/5000K Lume	ens 4,196	5,147	6,370	6,988	3	8,202	10,058	12,449	13,656	
SL2	3000K Lumens	3,967	4,866	6,022	6,607		7,755	9,509	11,771	12,911	
	BUG Rating 4000K/5000K Lume	B1-U0-G1 ens 4,284	81-U0-G1 5,255	B1-U0-G2 6,504	7,134	-	B1-U0-G2 8,374	B2-U0-G2 10,268	82-U0-G3 12,709	82-U0-G3 13,941	
SL3	3000K Lumens	3,849	4,720	5,842	6,408	-	7,520	9,224	11,415	12,523	
0.00	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-		B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	
	4000K/5000K Lume	ens 4,071	4,992	6,179	6,778	3	7,954	9,756	12,074	13,246	
SL4	3000K Lumens	3,849	4,720	5,842	6,408	3	7,520	9,224	11,415	12,523	
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-		B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	
	4000K/5000K Lume		5,420	6,709	7,358	-	8,637	10,591	13,108	13,595	
5NQ	3000K Lumens BUG Rating	4,179 B2-U0-G1	5,124 B2-U0-G1	6,343 B2-U0-G1	6,957 B3-U0-	-	8,166 B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	
	4000K/5000K Lume		5,520	6,831	7,494		8,795	10,786	13,350	14,644	
5MQ	3000K Lumens	4,256	5,219	6,458	7,085	5	8,316	10,198	12,622	13,845	
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-	G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	
	4000K/5000K Lume	ens 4,513	5,534	6,849	7,514	_	8,819	10,815	13,385	14,683	
5WQ	3000K Lumens	4,268	5,232	6,475	7,104	-	8,338	10,224 B4-U0-G2	12,656 B4-U0-G2	13,882 B4-U0-G2	
	BUG Rating 4000K/5000K Lume	B3-U0-G1 ens 3,765	83-U0-G1 4,619	5,716	B3-U0- 6,270	-	7,358	9,023	11,167	12,251	
SLL/SLR	3000K Lumens	3,560	4,367	5,404	5,927	-	6,957	8,531	10,559	11,583	
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-	G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	
	4000K/5000K Lum	ens 4,379	5,370	6,647	7,293	3	8,558	10,494	12,989	14,250	
RW	3000K Lumens	4,141	5,077	6,285	6,895		8,092	9,922 B3-U0-G1	12,281 B3-U0-G2	13,473 B3-U0-G2	
* Nominal I	BUG Rating umen data for 70 CRI.	B2-U0-G1 BUG rating for 400	B2-U0-G1	B3-U0-G1	B3-U0- r 3000K B		B3-U0-G1 tings.	55-50-01	50 00 01	50 00 02	
FAT Powering &	usiness Worldwida	Eaton 1121 Highway 74 So Peachtree City. GA 3 P: 770-486-4900 www.eaton.com/ligh	0269 Spe dim	cifications and ensions subject to age without notice.							TD51401 April 9, 2019 8:59

OAST ING	EM	b Name: S 25 Hacienda I hitect: BSSW A Jineer: Burgess Jineers (Fort My	akes rchitects Inc. (Nap Brant Consulting ers)	Catalog Number: GWC-AF-01-LED-E1-T4	FT-BK-8030	Type: D	
page 5							GWC GALLEON W
ORDERING INF	ORMATION						
Sample Number: (SWC-AF-02-LED	-E1-T3-GM					
Product Family 1	Light Engine	Number of Light Squares ²	Lamp Type	Voltage	Distribution	Color	Mounting Options
GWC=Galleon Wall	AF≃1A Drive Current	01=1 02=2°	LED≃Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁴ 480=480V ^{6,5}	T3=Type III	AP=Grey BZ=Bronze BN=ci-cli DP=Dark Platinum GM=Graphite Metallic WH=White CC=Custom Color ⁶	[BLANK]≖Surface Mount
FF=Double Fused 10K=10kV Surge in DIM=0-10V Dimm DALI=DALI Drive HA=50°C High An UPL=Uplight Hou BBB=Battery Pac CWB=Cold Weath P=Button Type PI R=NEMA Twistlo PER7=NEMA 7-PI AHD145=After Hou AHD245=After Hou AHD255=After Hou A	OK 7	2800mA to 1200mA	oltage) Must Specify Voltage) cle 15 on 17, 16, 19 or 16' - 40' Mounting Heig or 16' - 40' Mounting H		OA/RA1013=Photocontrol Shorting (OA/RA1016=NEMA Photocontrol - M OA/RA1027=NEMA Photocontrol - 48 MA1252=10kV Circuit Module Replac MA1059XX=Thru-branch Back Box (N FSIR-100=Wireless Configuration Tot LS/HSS=Field Installed House Side S WOLC-7P-10A=WaveLinx Outdoor Co	ulti-Tap 105-285V 17V 10V ement Must Specify Color) ol for Occupancy Senso Shield ^{22, 25}	or 17
2. Standard 4000K CC 3. Two light squares w 4. Requires the use of 5. Only for use with 48 High Lep Delta and 6. Custom colors are a 7. Extended lead time 8. Not available with 19. Cannot be used with 10. Low voltage control 11. Only available with 12. Not available with 13. Not available with 14. Operates a single of 15. Compatible with 16. Requires the use of 17. The FSIR-100 confi 18. Replace LXX with 19. Includes integral p 20. LumaWatt wireles 21. Bronze sensor is si 22. Not available with 23. Only for use with 5 24. CE is not available 25. One required for e 26. Requires 7-pin NEI	T and minimum 70 yith BBB or CWB or a step down transit 80V Wye systems. I Three Phase Corne wallable. Setup chis apply. Use dedicate the control option of the control of control of the control of	CRI. Intions limited to 25°C, former. Not available in Per NEC, not for use wir Grounded Delta systemes apply. Paint chip teld IES files when performer. Its outside fixture, gle light square. HA opt d CWB options. Available BBB, CWB, R, or PER7 old weather option option options. It is provided to adjust parametring height options: LO ry installed requiring no fixtures. White sensor istributions. The light st. L. LWR, MS, MS/DIM, F.	combination with sensor of hungrounded systems, imms). samples required. Extende orming layouts. Ion available for single lightle for single light square o options. states -20°C to +40°C, stant IN ANSI controls. IN ANSI controls. states including high and low 8, L20, L40 or L40W are the etwork components in app shipped on all other housi quere trim plate is painted it, R or PER7 options. Available WOLC-7 cannot be used in	options at 1200mA pedance grounde at Lead times appl at square only. Lim nly. dard 0°C to +40°C. control accessor y modes, sensitivi only choices. ropriate quantitie ng color options, black when the Hi ble in 120-277V on	A. d systems or corner grounded systems (commonly). hited to 1A and below. Backbox is non-IP rated. y. See After Hours Dim supplemental guide for a ty, time delay, cutoff and more. Consult your lights. See www.eaton.com/lighting for LumaWatt a possible of the consult is selected.	dditional information. hiing representative at Eato	
FATON Powering Business V	Voridwide	Eaton 1121 Highway 74 South Peachtree City, GA 3026 P: 770-486-4800 www.eaton.com/lighting	Specifications and dimensions subjections	ct to otice.	No 6 Digitally signed to DN: CN=Rei de la control de la co	NS 1673 by Reid Fellow d Fellows,	√S ★ 401 :59





REVISIONS JOB NO. F2109.13 CHECKED BY R.C.F. P.E. 61673









Reviewed and Approved For:

Permit Issuance

PL20210001092 Date: 4/7/2022



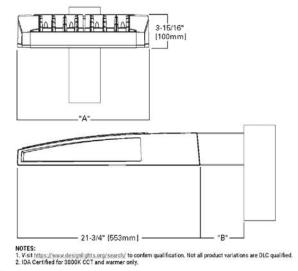


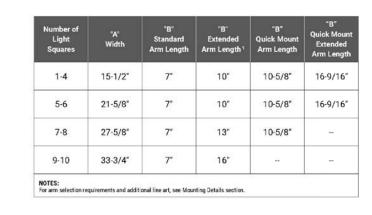
- Ordering Information page 2
- Mounting Details page 3 • Optical Distributions page 4
- Product Specifications page 4
- Energy and Performance Data page 4 Control Options page 9

Quick Facts

- Lumen packages range from 4,200 80,800
- Efficacy up to 156 lumens per watt · Options to meet Buy American and other domestic
- preference requirements

Dimensional Details





McGraw-Edison

GLEON Galleon

Area / Site Luminaire

Product Certifications

WaveLinx

Enlighted

CERTIFIED GAR

Product Features





14, 15	SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SL1=90* Spill Light Eliminator Left SL8=90* Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	
and System	ns Options (Add as Suffix)	Accessories (Order Separately)36
Sensor with N/OFF Open N/OFF Opensor, 9' - 20' Sensor, 21' - for Dimming or for Dimming PIN Receptar Ltl driver and Only, 7'-15' 13' Only, 15'-40' h Bluetooth, -16' Mounting of Occupancy e Occupancy	e ²¹ Bluetooth Interface, 8' - 20' Mounting ³⁴ Bluetooth Interface, 21' - 40' Mounting ³⁴ Bluetooth Interface, 21' - 40' Mounting ³⁴ ation, 9' - 20' Mounting Height ²⁴ eration, 21' - 40' Mounting Height ²⁴ Mounting Height ²⁴ : Mounting Height ²⁴ : ³⁵ Operation, 9' - 20' Mounting Height ²⁴ : ³⁶ poperation, 21' - 40' Mounting Height ²⁴ : ³⁶ place ³⁷ place ³⁸	OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1021=NEMA Photocontrol - 480V OA/RA1013=Photocontrol Shorting Cap OA/RA1013=Photocontrol Shorting Cap OA/RA1013=Photocontrol Shorting Cap OA/RA1013=Photocontrol Shorting Cap OA/RA1013=Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=2gi80F Innon Adapter for 2-3/8" 0.D. Tenon MA1037-XX=2gi80F Innon Adapter for 2-3/8" 0.D. Tenon MA1197-XX=2gi80F Innon Adapter for 2-3/8" 0.D. Tenon MA1188-XX=2gi80F Innon Adapter for 2-3/8" 0.D. Tenon MA1189-XX=2gi80F Innon Adapter for 2-3/8" 0.D. Tenon MA1190-XX=2gi80F Innon Adapter for 2-3/8" 0.D. Tenon MA1190-XX=2gi80F Innon Adapter for 3-3/8" 0.D. Tenon MA1190-XX=2gi80F Innon Adapter for 3-1/2" 0.D. Tenon MA1191-XX=2gi80F Innon Adapter for 3-1/2" 0.D. Tenon MA1193-XX=2gi80F Innon Adapter for 0-3-1/2" 0.D. Tenon MA1195-XX=3gi90F Tenon Adapter for 0-3-1/2"
ations. Refer ly Models f 9 per ble with led systems letts and m mounting DMA drive or housing, per pole at	guide for additional information. 23. Not for use with 14FT, 14W or S.4 optics. See IES fi. 24. The FSIR-100 configuration tool is required to adjus- your lighting representative at Cooper Lighting Solution. 25. Replace X with number of Lighti Squares operating it. 26. Enighted wireless sensors are factory installed only quantities. 27. Not available with house side shield (HSS). 28. Not for use with SNQ, SNQ, SNQ or RW optics. A bil. 29. CC is not available with the LWF, NS, MS/X, MS/XIN. 30. One required for each Light Square. 31. Requires PR73. 32. Replace XX with sensor color (WH, 8Z or BK.) 33. WAC Gatway required to enable field-configurabilit 34. Smart device with mobile application required to the 35. Only product configurations with these designated ments Act of 1979 (TAA), respectively. Please refer may be separately analyzed under domestic prefere may be separately analyzed under domestic prefere	is eason has an integral photocell. PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental les for details. I parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult of or more information. In low output mode. I requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate suck trim plate is used when HSS is selected. I, 3PC, PR or PR7 options. Available in 120-277V only. I go order WAC-PoE and WPDE-120 (10V to PoE Injector) power supply if needed. In ange system defaults. See controls section for details. I see fixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agree- to DUMESTEE PERTERCES website for more information. Components shipped separately
SECTION AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TO	Add as Suffix)	
Туре	0.000.000.000.0000.0000.0000	Data Backhaul
C.	C=Cellular, No SIM A=Cellular, AT&T V=Cellular, Verizon S=Cellular, Sprint	R=Cellular, Rogers W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking
		-

COOPER
Lighting Sojutions

McG	raw-Ed	lison	k					GLEON	Galleon			
TYPE "N"	3/4" [19: 2" Hole [51mm] 7/8" [22: 1-3/4" [44mm] (2) 9/16" [14mm Diameter Holes	(Incl mm) oter e	ck Mount Arm ludes fixture ad		M and QMEA Pole 6-150 (177n 4-150167 (125mm)	1-1,9° [L 5-11.	7-18° 19	1-7/6° [34mm] 4-7/8° 1124mm] 402mm] 9-18° [15mm] Dix Hofe			
	QM Quick Mount Arm (Standard) QMEA Quick Mount Arm (Extended) 3-15/16" [100mm]											
Standard Wal	l Mount				100000001	Mast Arn	Mount					
Arm Mountin	1-13/16" 1-13/16"											
Number of Light Squares	Standard Arm @ 90° Apart	Standard A				2 @ 180°	Triple ^t	A	4 @ 90°			
1 2 3	Standard Standard Standard	Standard Standard Standard	d QM Exter	ded Quick Mo	unt							
4	Standard	Standar	d QM Exter	ided Quick Mo	unt		HALL					
5	Extended	Standar	d QM Exter	ded Quick Mo	unt	2 @ 90°	Triple ²		2 @ 120°			
6	Extended	Standar	20 100 to		p. Frankling				a A A			
7	Extended	Extende		Quick Mo								
8	Extended	Extende		Quick Mo		1 Round poles are 3 @ 12		90° 2 Round poles sre 3	@ 90°			
10	Extended Extended	Extende	*****		110123.	3 Shown with 4 square or	nfigurations	- Touris pores and 3				
		LAIGING	M									
Fixture Weigh	Weight	with E	PA with Standard	***************************************	0F-0004 W2004	LIVE FOR STATE OF STA	LIVER AND THE RESERVE OF THE RESERVE	//www.nawa				
Number of Light Square	Standard	dand ar	nd Extended Arm (Sq. Ft.)	Weight with QM Arm (lbs.)	EPA with QM Arm (Sq. Ft.)	Weight with QML (lbs.)	EPA with QML (Sq. Ft.)	Weight with QMEA (lbs.)	EPA with QMEA (Sq. Ft.)			
1-4	33	The state of the s	0.96	35	1.11	-		38	1.11			
5-6	44		1.00	46	1.11			49	1.11			
7-8	54		1.07	56	1.11	58	1.11	-	-			

9-10 63 1.12 -- -- 67 1.11 -- --

Nomin:	al Power Lumens (1.2	Δ)								mental Perfor	mance G
DOMESTICAL STREET	r of Light Squares	1	2	3	4	5	6	7	8	9	10
	al Power (Watts)	67	129	191	258	320	382	448	511	575	64
70-1000	urrent @ 120V (A)	0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.8
	urrent @ 208V (A)	0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.1
70.00000	urrent @ 240V (A)	0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.7
	urrent @ 277V (A)	0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.3
	urrent @ 347V (A)	0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.9
Input C	urrent @ 480V (A)	0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.4
Optics	897-1981-199-199-1	1000				7-17-1-1		127.5.5.			
	4000K Lumens	7,972	15,580	23,245	30,714	38,056	45,541	53,857	61,024	68,072	75,3
Т2	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0
	Lumens per Watt	119	121	122	119	119	119	120	119	118	11
	4000K Lumens	8,462	16,539	24,680	32,609	40,401	48,348	57,176	64,783	72,266	80,0
T2R	BUG Rating	81-U0-G2	B2-U0-G2	B3-U0-G3	83-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	84-U0-G5	72,266 B4-U0-G5	B4-U0
nan.	Lumens per Watt	126	128	129	126	126	127	128	127	126	12
	4000K Lumens	8,125	15,879	23,693	31,307	38,787	46,417	54,893	62,197	69,381	76,8
Т3	BUG Rating	81-U0-G2	B2-U0-G3	23,693 B3-U0-G4	B3-U0-G4	B3-U0-G5	84-U0-G5	84-U0-G5	84-U0-G5	84-U0-G5	76,0 B4-U0
13	Lumens per Watt	121	123	124	121	121	122	123	122	121	12
	4000K Lumens	8,306	16,232	24,220	32,001	39,651	47,447	56,114	63,580	70,924	78,5
T3R	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	84-U0-G5	84-U0-G5	84-U0-G5	B4-U0
ISK	Lumens per Watt	124	126	127	124	124	124	125	124	123	12
	4000K Lumens	8,173	15,970	23,831	31,488	39,014	46,686	55,212	62,558	69,783	77,2
TACT		200420000	200000	,	B3-U0-G5	B3-U0-G5	84-U0-G5	84-U0-G5	62,556 B4-U0-G5	84-U0-G5	B4-U0
T4FT	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4 125	122	122	122	123	122	121	12
	Lumens per Watt	(2.00%)	100000		100000000000000000000000000000000000000			**********			200
T4W	4000K Lumens	8,067	15,764	23,522 B3-U0-G4	31,080	38,510	46,082	54,499	61,751	68,881	76,2
14W	BUG Rating	B2-U0-G2	B3-U0-G3		B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B5-U0
	Lumens per Watt	120	122	123	120	120	121	122	121	120	11
-	4000K Lumens	7,958	15,552	23,206	30,662	37,989	45,462	53,763	60,920	67,952	75,2
SLZ	BUG Rating	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0
	Lumens per Watt	119	121	121	119	119	119	120	119	118	11
	4000K Lumens	8,124	15,877	23,690 B3-U0-G4	31,302	38,784	46,410	54,885	62,189	69,372	76,8
SL3	BUG Rating	B1-U0-G2	B2-U0-G3		B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0
	Lumens per Watt	121	123	124	121	121	121	123	122	121	12
	4000K Lumens	7,719	15,085	22,510	29,741	36,850	44,097	52,148	59,089	65,913	72,9
SL4	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0
	Lumens per Watt	115	117	118	115	115	115	116	116	115	70.0
CHO	4000K Lumens	8,380 P2,110,C1	16,375	24,436	32,287	40,003	47,870 PE-110.C2	56,610	64,144 PE 110.C4	71,552	79,2
5NQ	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0
	Lumens per Watt	125	16 676	128	125	125	125	126	126	72 969	12
EMO	4000K Lumens	8,534 B3-U0-G2	16,676	24,885 R5-110-C3	32,881 B5.10.C4	40,739 B5-IIO-C4	48,752 R5-110-C4	57,653	65,326	72,868	80,6
5MQ	BUG Rating	20,000	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0
2.	Lumens per Watt	127	129	130	127	127	128	129	128	72.062	12
Emo	4000K Lumens	8,556	16,723 PAJIO.C2	24,951 R5-U0-C3	32,968 R5-UO-C4	40,847 R5-JO-C4	48,881 R5-110-C5	57,808 85,00,05	65,499 B5-U0-C5	73,063	80,8 RS-110
5WQ	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0
	Lumens per Watt	128	130	131	128	128	128	129	128	127	12
SLL/	4000K Lumens	7,140	13,951	20,817	27,506	34,081	40,783	48,231	54,649	60,959	67,4
SLR	BUG Rating	B1-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0
	Lumens per Watt	107	108	109	107	107	107	108	107	106	10
<u>~</u> (385)	4000K Lumens	8,304	16,228	24,215	31,994	39,641	47,437	56,100	63,566	70,907	78,5
RW	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0
_	Lumens per Watt	124	126	127	124	124	124	125	124	123	12
	4000K Lumens	8,335	16,287	24,302	32,110	39,784	47,610	56,303	63,796	71,163	78,7
AFL	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0

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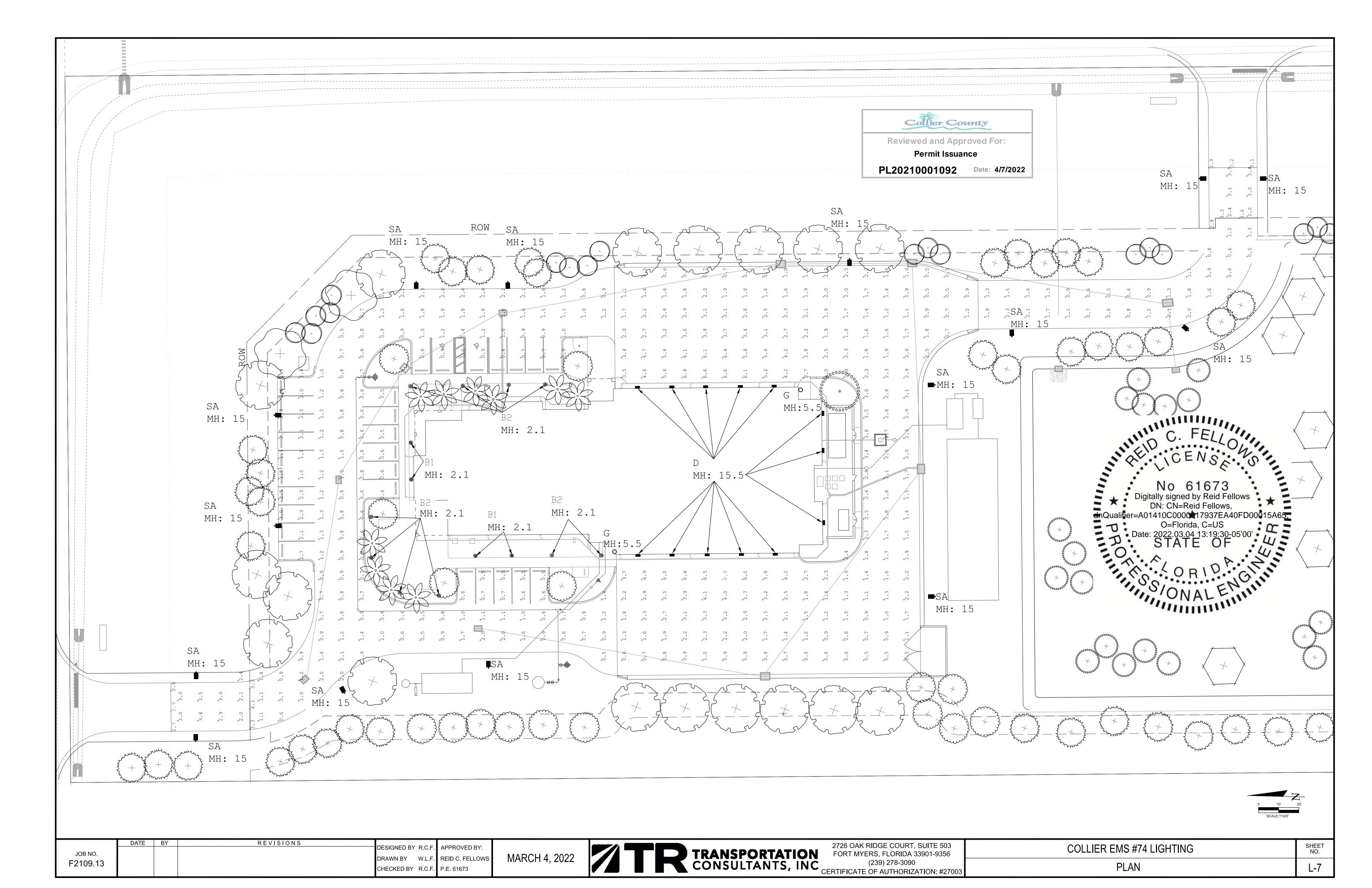
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No 61673 Digitally signed by Reid Fellows DN: CN=Reid Fellows, dnQualifier=A01410C0000 17937EA40FD00015A65 O=Florida, C=US Date: 2022.03.04 13:16:04-05'00' STATE OF

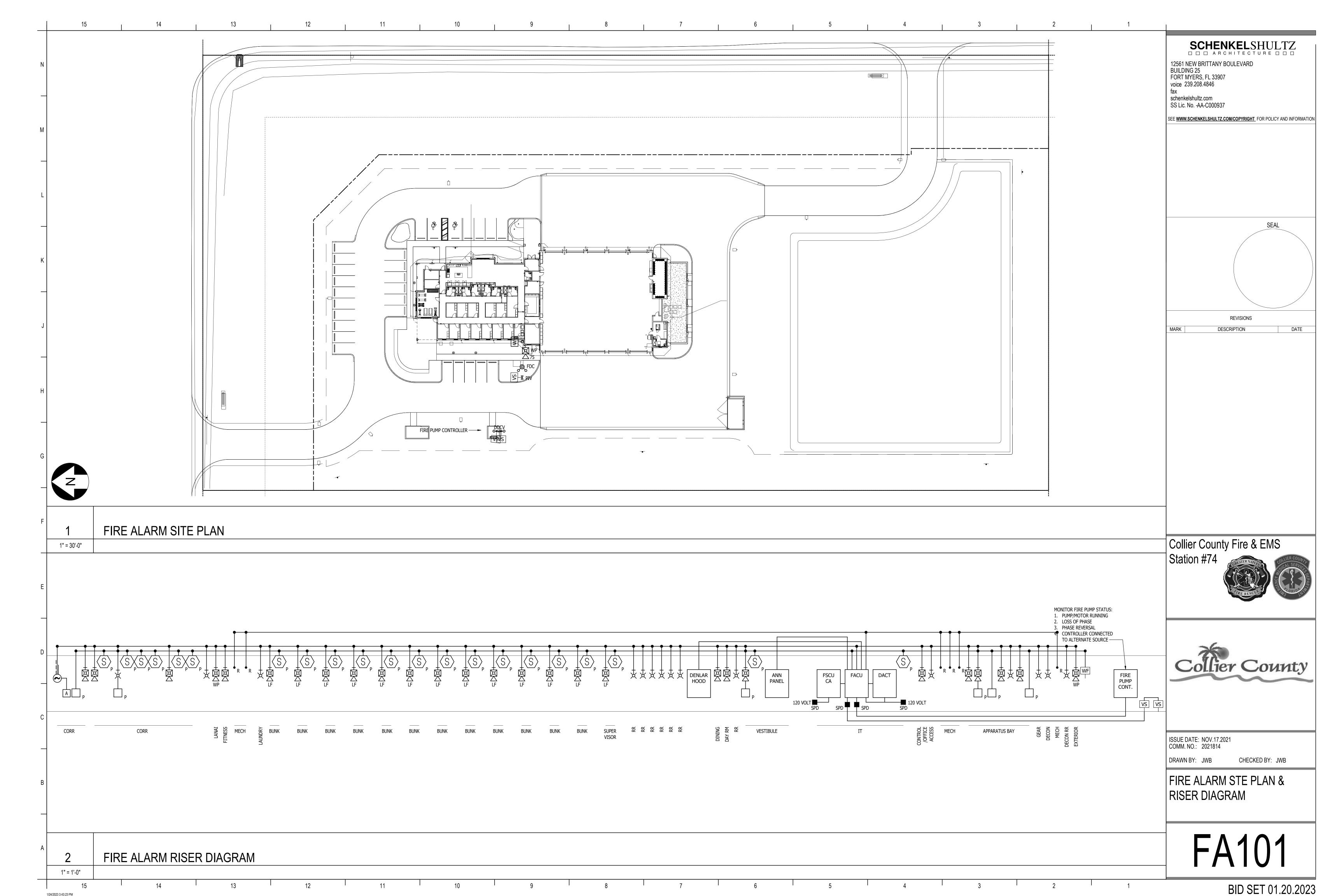
	DATE	BY	REVISIONS			
IOD NO				DESIGNED BY	R.C.F.	APPROVED BY:
JOB NO. F2100 13				DRAWN BY	W.L.F.	REID C. FELLOWS
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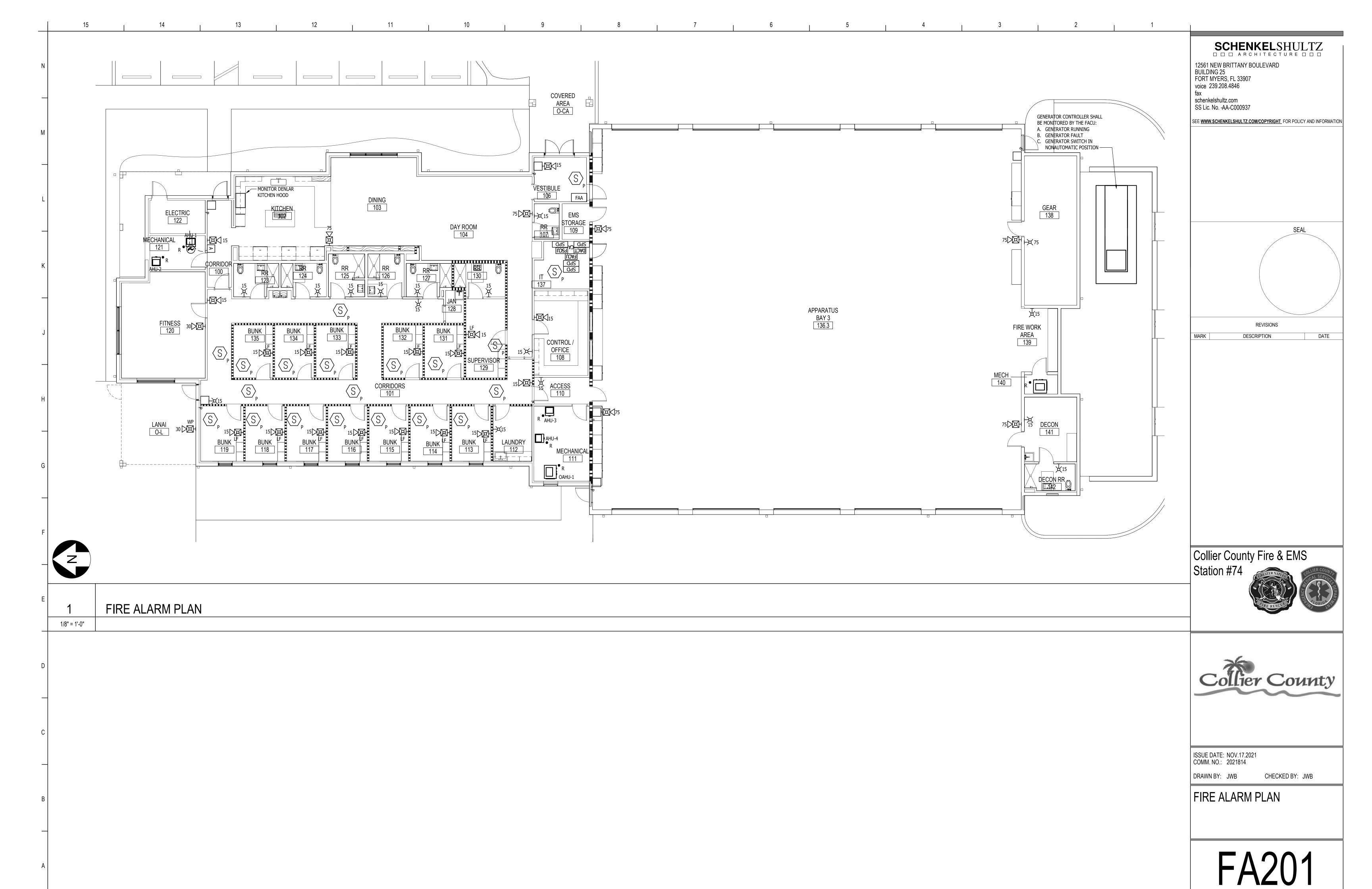


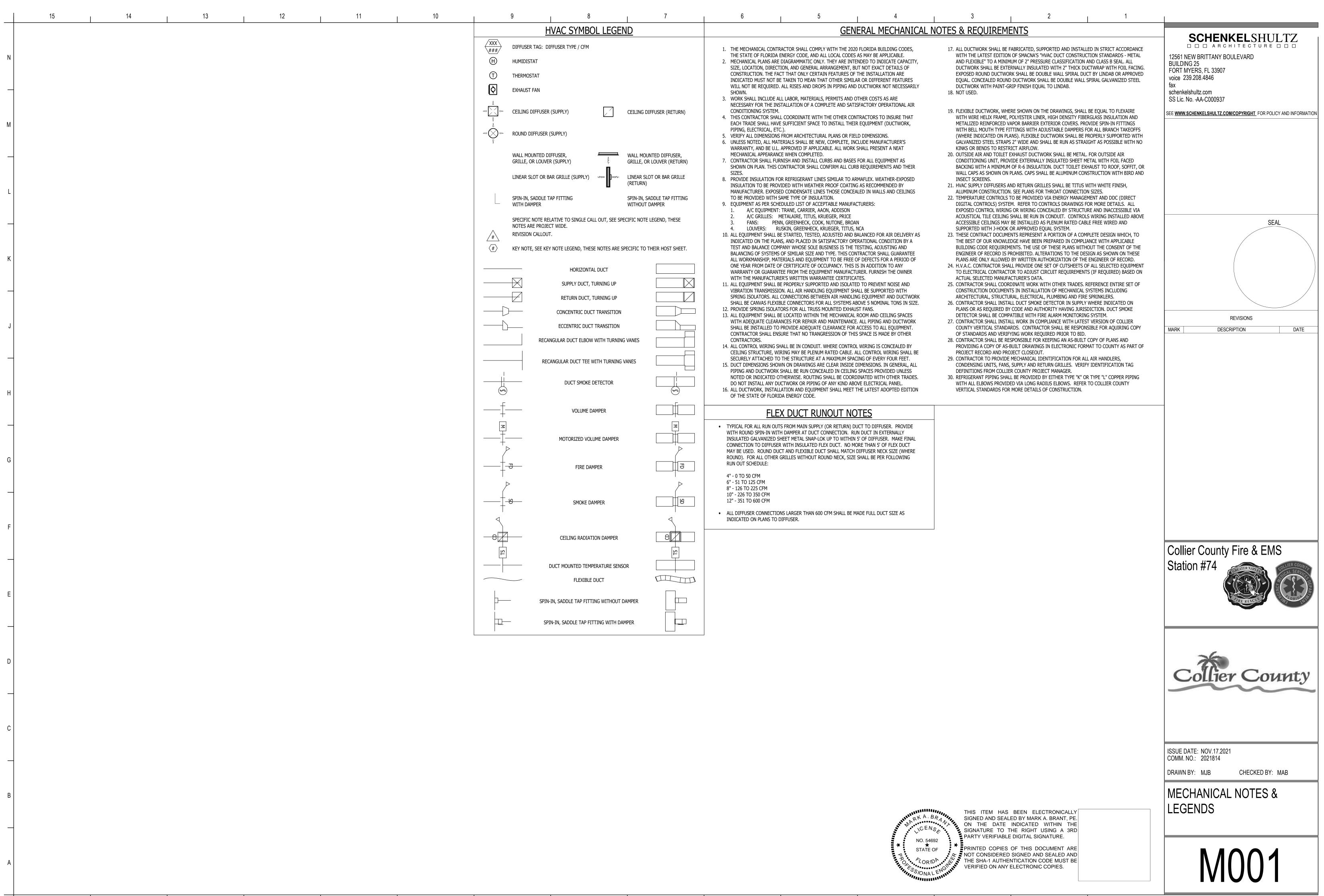
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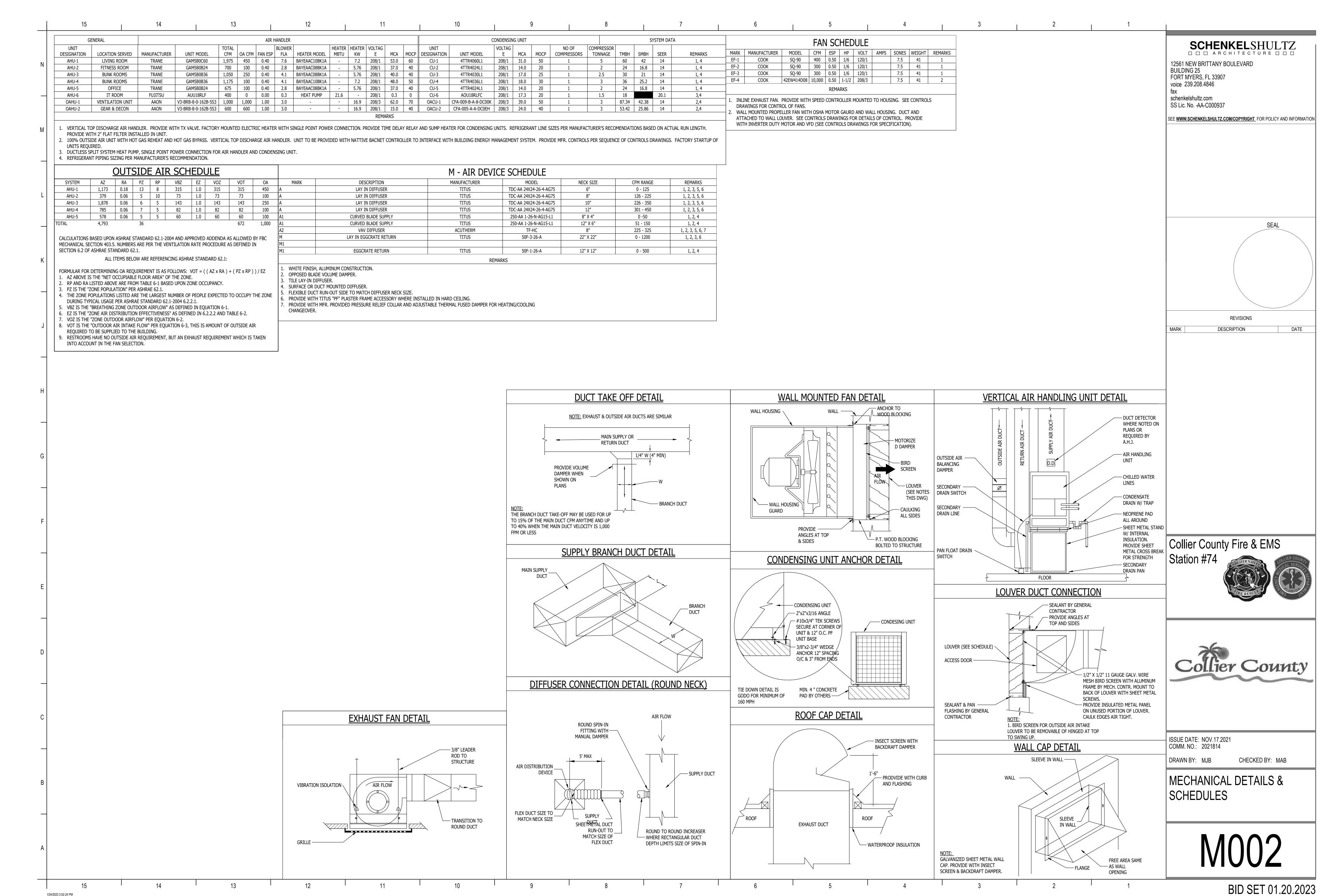


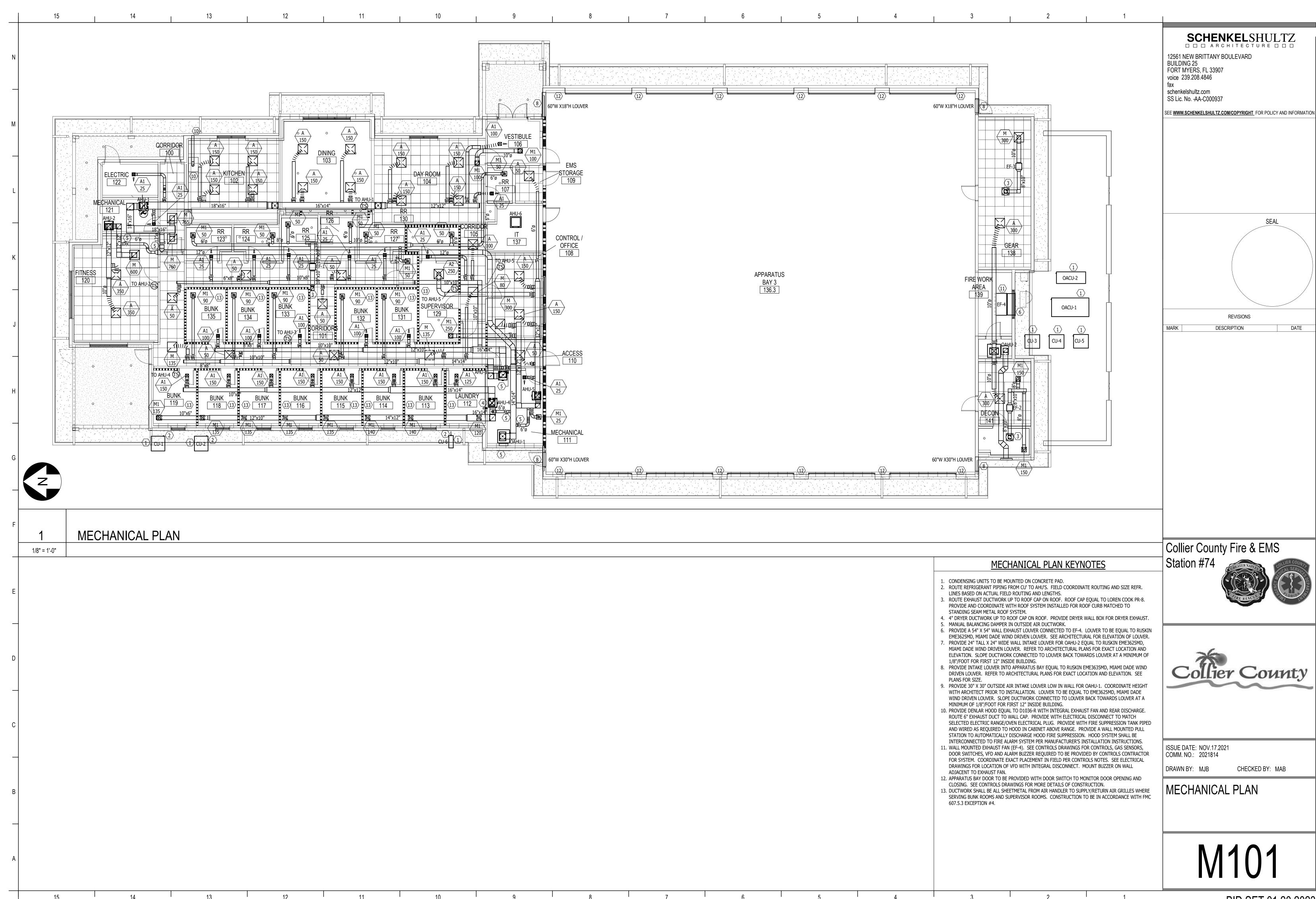
GENERAL FIRE ALARM NOTES THIS ITEM HAS BEEN ELECTRONICALLY **SCHENKEL**SHULTZ SIGNED AND SEALED BY JOSEPH W. BROUGHTON, PE. ON THE DATE INDICATED □ □ □ ARCHITECTURE □ □ □ THE FOLLOWING NOTES ADDRESS THE REQUIREMENTS OF THE FIRE ALARM PROJECT AND THE 32.008(7) SPECIAL REQUIREMENTS 32.008(4)(F) FIRE ALARM SYSTEM TYPE & ZONING WITHIN THE SIGNATURE TO THE RIGHT REOUIREMENTS OF 61G15-32 AS THEY PERTAIN TO THE FIRE ALARM SYSTEM FOR THIS PROJECT. USING A 3RD PARTY VERIFIABLE DIGITAL 12561 NEW BRITTANY BOULEVARD THE FIRE ALARM SYSTEM SHALL BE AS FOLLOWS AND SHALL CONTAIN THE FOLLOWING FEATURES: OWNER NO. 63949 **SIGNATURE.** BUILDING 25 A. THE ENGINEER IS NOT AWARE OF ANY SPECIAL REQUIREMENTS OF THE OWNER. 32.003(6) FIRE ALARM SHOP/LAYOUT DRAWING REQUIREMENTS A. THE FIRE ALARM SYSTEM SHALL USE HORN TYPE AUDIO SIGNALS. STATE OF FORT MYERS, FL 33907 B. THE SYSTEM SHALL BE A FULLY ADDRESSABLE SYSTEM. PRINTED COPIES OF THIS DOCUMENT ARE THE FIRE ALARM SYSTEM CONTRACTOR IS RESPONSIBLE FOR OBTAINING A SEPARATE PERMIT FOR ALL C. THE SYSTEM SHALL ANNUNCIATE ALL INITIATING DEVICES. INSURANCE UNDERWRITER voice 239.208.4846 NOT CONSIDERED SIGNED AND SEALED AND `YORID' A. THE ENGINEER IS NOT AWARE OF ANY SPECIAL REQUIREMENTS OF THE INSURANCE FIRE ALARM SYSTEMS, AND FOR INSTALLATION & ACCEPTANCE OF THE SYSTEM BY THE LOCAL D. THE SYSTEM SHALL USE A REMOTE SUPERVISING STATION. THE SHA-1 AUTHENTICATION CODE MUST BE AUTHORITY HAVING JURISDICTION. LOCATION AND QUANTITIES OF DEVICES ARE SHOWN ON THE E. THE SYSTEM SHALL BE POWER LIMITED. UNDERWRITER. schenkelshultz.com VERIFIED ON ANY ELECTRONIC COPIES. PLANS AND IDENTIFIED BY THE SYMBOL LEGEND, RISER, AND FIRE ALARM SYSTEM NOTES AS TO THE SS Lic. No. -AA-C000937 SYSTEM REQUIREMENTS. IT IS A REQUIREMENT OF THIS PROJECT THAT THE INSTALLER OF THE 2. UNLESS SHOWN OTHERWISE, THE FIRE ALARM SYSTEM SHALL BE ZONED BY FLOORS AND BY VERTICAL ALARM EQUIPMENT SHALL PROVIDE SUBMITTALS WHICH INCLUDE: A. SPRINKLED BUILDINGS SHALL HAVE A FLASHING STROBE AND AUDIBLE SIGNAL AT THE CORNER OF SEE <u>www.schenkelshultz.com/copyright</u> for Policy and Information A. EQUIPMENT SHOP/LAYOUT DRAWINGS (INCLUDING ALL DEVICES, EQUIPMENT, SPDS, AUXILIARY THE BUILDING, NEAREST THE FIRE DEPARTMENT CONNECTION (FDC). THE INTENT IS TO PROVIDE RELAYS, ETC.). 32.008(4)(G) SURGE PROTECTIVE DEVICES THE RESPONDING FIRE DEPARTMENT WITH AN EASY MEANS OF IDENTIFYING THE FDC AS THEY B. FIELD WIRING DIAGRAMS WHICH INDICATE CONDUCTOR AND CABLE SIZES. APPROACH THE BUILDING. C. ELECTRICAL LOAD TOTALS OF THE SYSTEM TO VERIFY THE RATING OF THE REQUIRED STANDBY B. ALL ABOVEGROUND VALVES OR PIV(S) THAT CONTROL WATER EXCLUSIVELY SUPPLYING A FIRE 1. ALL ALARM WIRING ENTERING OR LEAVING THE BUILDING SHALL HAVE SURGE PROTECTION SUITABLY BATTERY (WHICH IS PART OF THE SYSTEM) IN ACCORD WITH NFPA 72 REQUIREMENTS. GROUNDED. THIS INCLUDES THE WIRING TO REMOTE PIV, BACK FLOW PREVENTERS, AND INCOMING SPRINKLER SYSTEM SHALL BE ELECTRICALLY MONITORED. TELEPHONE/COMMUNICATIONS LINES. SPDS ARE REQUIRED ON ALL 120 VOLT AC POWER SUPPLY C. THE CONTRACTOR SHALL OBTAIN THE FIRE ALARM MONITORING PERMIT PRIOR TO THE ISSUANCE THE FIRE ALARM SUBMITTALS ARE TO BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW PRIOR OF THE FIRE ALARM PERMIT. TO SUBMITTING FOR A FIRE ALARM PERMIT. THE AHJ SHALL NOT APPROVE ANY SUBMITTALS FOR FIRE ALARM PERMITS WHICH DO NOT BARE THE SUBMITTAL STAMP INDICATING "NO EXCEPTIONS TAKEN". 2. THE LOCATION OF THE SPDS ARE GENERALLY INDICATED ON THE FLOOR PLAN FOR PERMITTING A. THE ENGINEER HAS NO SPECIAL REQUIREMENTS. PURPOSES. THE SPDS ARE TO BE FIELD LOCATED AS IS PRACTICAL FOR THE INSTALLATION WITH THE 32.003(8) ADDITIONAL INFORMATION FOLLOWING GUIDELINES BELOW. THE SPECIFIC LOCATION OF THESE DEVICES IS DEPENDANT UPON THE ACTUAL WIRING TO BE INSTALLED. AS SUCH, THE ENGINEER CANNOT KNOW EXACTLY WHERE THE THE ENGINEER FEELS THAT THE INFORMATION AS PROVIDED IS ADEQUATE TO ASSIST THE AHJ IN SPDS ARE/WILL BE. IT IS HEREBY NOTED THAT THE ENGINEER TAKES NO EXCEPTION TO THE FIRE ALARM SYMBOL LEGEND UNDERSTANDING THE OWNER'S INTENDED USE AND PROPOSED PROTECTION OF THE BUILDING OR RELOCATION OF THE SPDS WITHIN THE GUIDELINES NOTED BELOW. THE FINAL LOCATION OF THE FACILITY AND TO PROVIDE SUFFICIENT DIRECTION TO THE INSTALLATION CONTRACTOR OR OTHER SPDS SHALL BE SHOWN ON THE FIRE ALARM CONTRACTOR'S AS-BUILT DRAWINGS AS PRESENTED TO FIRE ALARM PANEL. BATTERY BACK UP, SUPERVISED WIRING SEPARATE ANNUNCIATION INTERESTED PARTIES REGARDING THE LAYOUT OF THE SYSTEM(S). THE OWNER UPON COMPLETION OF THE PROJECT OF EACH AND EVERY ALARM DEVICE, ANNUNCIATION ONLY OF TAMPER SWITCH/S. A. FOR 120 VOLT SUPPLY TO THE FIRE ALARM, THE SPDS ARE TO BE INSTALLED IMMEDIATELY 32.008(2) CODES & STANDARDS ADJACENT TO THE FIRE ALARM DEVICE THAT IS BEING SUPPLIED. FIRE ALARM ADDRESSABLE MONITORING MODULE FOR CONNECTION TO CONVENTIONAL B. FOR INCOMING COMMUNICATION WIRING, THE SPDS ARE TO BE INSTALLED IMMEDIATELY INITIATING DEVICES. CONTRACTOR TO INSTALL ALL SUCH DEVICES AT THIS LOCATION, THE SYSTEM SHALL COMPLY WITH NFPA 72 (2016 ED.), NFPA 70 (ARTICLE 760) (2017 ED.), THE ADJACENT TO THE FIRE ALARM DEVICE TO BE CONNECTED. WHICH SHALL BE IN AN AIR-CONDITIONED SPACE, TYPICALLY ADJACENT TO THE FACP.\ FLORIDA FIRE PREVENTION CODE (7TH ED.) WITH NFPA 101 (2018 FLORIDA ED.), AND THE STATE OF FOR WIRING ENTERING/LEAVING THE BUILDING TO SERVE FIRE ALARM DEVICES, THE SPDS ARE TO FLORIDA ADA CODES. BE INSTALLED IN AN ACCESSIBLE LOCATION NEAR THE POINT AT WHICH THE WIRING ENTERS THE BUILDING. MANUAL PULL STATION. DOUBLE ACTION, INSTALL AT 4'-0" TO TOP. 32.008(3) SMALL SYSTEMS 32.008(4)(H) ENVIRONMENTAL FACTORS CEILING MOUNTED COMBINATION HORN SIGNAL WITH FLASHING STROBE LIGHT, 24 THE COST OF THE SYSTEM IS UNKNOWN, HOWEVER THE COST IS EXPECTED TO EXCEED \$5,000 IN VOLT DC OPERATION, PROVIDE INTERIOR/EXTERIOR WEATHER PROOF DEVICES AS COST, THEREFORE, ENGINEERED FIRE ALARM PLANS HAVE BEEN PREPARED. 1. ALL ALARM SYSTEM COMPONENTS SHALL BE LISTED AS SUITABLE FOR USE IN THE PHYSICAL APPLICABLE. CD - CANDELA NOTED. LF - HORN FOR SLEEPING AREA WITH SQUARE WAVE LOCATIONS ACTUALLY USED. (i.e.: INDOOR, DAMP, WET HAZARDOUS, EXPLOSION PROOF, ETC.) WITH A FUNDAMENTAL FREQUENCY OF 520 Hz. 32.008(4)(A) PLANS & OCCUPANCY 32.008(4)(I) SITE PLAN WALL MOUNTED COMBINATION SIGNAL WITH FLASHING STROBE LIGHT @ 84" AFF, 24 PLEASE REFER TO OTHER LOCATIONS IN THE DESIGN DOCUMENTS FOR THE SYMBOLS LEGEND, FIRE VOLT DC OPERATION, PROVIDE INTERIOR/EXTERIOR WEATHER PROOF DEVICES AS ALARM RISER DIAGRAM, AND FIRE RATED ASSEMBLIES. 1. PLEASE SEE THE FIRE ALARM PLAN SET FOR A SITE PLAN SHOWING FIRE ALARM DEVICES REQUIRED ON APPLICABLE. CD - CANDELA NOTED. LF - HORN FOR SLEEPING AREA WITH SQUARE WAVE WITH A FUNDAMENTAL FREQUENCY OF 520 Hz. REVISIONS PLEASE REFER TO NOTES UNDER 32.008(4)(N) WIRING FOR CABLING REQUIREMENTS. 32.008(4)(J) SMOKE DETECTION CEILING MOUNTED FLASHING STROBE LIGHT, MUST CONFORM TO INTENSITY, DATE DESCRIPTION 3. FFPC BUILDING OCCUPANCY CLASSIFICATION/LOAD: LODGING HOUSE/101. SYNCHRONIZING AND SPACING TO FL HANDICAP CODE REQUIREMENTS FOR INSTALLED 1. "SPOT" SMOKE DETECTORS SHALL BE PROVIDED TO OPERATE IN ENVIRONMENT WHERE INSTALLED. AREAS. CD - CANDELA NOTED. IT IS THE OPINION OF THE ENGINEER OF RECORD THAT THE OCCUPANCY CLASSES OF THE INDIVIDUAL i.e.: NON AIR CONDITIONED ELEVATOR LOBBIES, MACHINE ROOMS AND HOIST WAY AT 100°F AND WALL MOUNTED FLASHING STROBE LIGHT, MUST CONFORM TO INTENSITY, SPACES COMPRISING THE PROJECT ARE APPARENT DUE TO THE FURNITURE, EQUIPMENT, AND/OR 100% RELATIVE HUMIDITY. ROOM NAMES INDICATED ON THE PLANS. SYNCHRONIZING AND SPACING TO FL HANDICAP CODE REQUIREMENTS FOR INSTALLED 32.008(4)(K) SMOKE DETECTION - STRATIFICATION AREAS. CD - CANDELLA NOTED. NOTE: THIS INFORMATION IS TAKEN FROM THE ARCHITECTURAL PLANS. IN THE CASE OF AN SMOKE DETECTOR AT CEILING, TYPE INDICATED BY SUBSCRIPT: 1. SMOKE DETECTION IS NOT PART OF THIS FIRE ALARM SYSTEM DESIGN. INFORMATIONAL DISCREPANCY, THE DATA IN THE ARCHITECTURAL PLANS SHALL SUPERSEDE THE SUBSCRIPT TYPE INFORMATION ABOVE. PHOTOELECTRIC PRODUCTS OF COMBUSTION DETECTOR 32.008(4)(L) PERFORMANCE BASED DESIGN 32.008(4)(B) DEVICES AND RELATED SYSTEMS HEAT DETECTOR @ CEILING - 190° F. (OR AS NOTED), TYPE INDICATED BY SUBSCRIPT: 1. THESE DRAWINGS REPRESENT A PRESCRIPTIVE DESIGN. AS SUCH, REFERENCES TO SPECIFIC SUBSCRIPT TYPE .. PLEASE REFER TO OTHER LOCATIONS IN THE PLAN SET FOR THE SPECIFIC LOCATIONS OF DEVICES. STANDARDS, ARTICLES, OR REQUIREMENTS IS NOT NECESSARY. COMBINATION - RATE OF RISE & FIXED TEMPERATURE RATE COMPENSATION CIRCUIT BREAKER FEEDING "FACP" AND ANY OTHER EQUIPMENT ASSOCIATED WITH THE FIRE ALARM 32.008(4)(M) EVACUATION SIGNALS FIXED TEMPERATURE SYSTEM (POWER SUPPLIES, AMPLIFIERS, ETC.) SHALL HAVE "LOCK ON" PROVISIONS, PAINTED RED, AND RATE OF RISE ONLY LABELED "FIRE ALARM CIRCUIT". 1. THE SYSTEM IS TO PROVIDE A GENERAL EVACUATION SIGNAL WATER FLOW SWITCH IN FIRE MAIN - PROVIDED & INSTALLED BY FIRE PROTECTION LOCATION AND QUANTITIES OF ALL WATER FLOW AND TAMPER SWITCHES MAY BE UNKNOWN AT TIME 32.008(4)(N) WIRING CONTRACTOR, CONNECTED BY FIRE ALARM CONTRACTOR. OF DESIGN: ALL FIRE SPRINKLER SYSTEMS HAVE THESE DEVICES. PRICING SHALL INCLUDE TAMPER SWITCH @ CONTROL VALVE, PROVIDED BY AND INSTALLED BY FIRE CONNECTIONS OF THESE DEVICES WHETHER SHOWN OR LOCATED ON THE DESIGN DRAWINGS. THE . ALL WIRING TO BE COPPER. CONTRACTOR TO USE WIRING WITH THHN OR THWN INSULATION AS PROTECTION CONTRACTOR. NOTE: IF MORE THAN ONE SWITCH IS INSTALLED, AT REOUIRED BY THE INSTALLATION TYPE AND LOCATION. INSTALLING CONTRACTOR SHALL COORDINATE WITH THE FIRE SPRINKLER CONTRACTOR AS TO THEIR WIRING TO BE SIZED, COLOR CODED AND IN QUANTITIES AS RECOMMENDED BY THE EQUIPMENT VARIOUS LOCATIONS, EACH DEVICE IS TO REPORT SUPERVISORY "NORMAL" OR "OFF-LOCATIONS. MANUFACTURER, AND IN ACCORDANCE WITH TABLE 760-61 FOR PLFA SYSTEMS OR IN ACCORDANCE NORMAL" POSITIONS PROVIDE TAMPER SWITCH CONNECTIONS AND WIRING FOR ALL PROJECTS WITH REMOTE PIV AND/OR WITH TABLE 760-27 FOR NPLFA SYSTEMS (BOTH OF NFPA 70 AS LISTED ABOVE). R FIRE ALARM RATED RELAY. VALVE AND BACKFLOW PREVENTERS. 3. SIGNAL WIRING SHALL BE AWG #12 OR #14. 4. ALARM INITIATING DEVICE WIRING SHALL BE AWG #18 MINIMUM. 5. AUXILIARY CONTROL RELAYS SHALL BE WITHIN 3'-0" OF CONTROLLED EQUIPMENT. 5. POWER WIRING SHALL BE AWG #14. FIRE ALARM SURGE PROTECTIVE DEVICE. IN GENERAL, THE CONTRACTOR IS TO INSTALL 6. OTHER WIRING SHALL BE #18. ALL SPDS AT THIS LOCATION. SEE GENERAL FIRE ALARM NOTES IN SECTION 32.008(4) 32.008(4)(C) NOTIFICATION DEVICES 7. APPROVED MULTI-CONDUCTOR CABLES ARE ACCEPTABLE AS SUBSTITUTES. (G) FOR FURTHER DETAILS REGARDING SPECIFIC SPD LOCATIONS. 8. CABLES OR CONDUCTORS NOT INSTALLED IN CONDUIT SHALL BE SLEEVED FROM THE DEVICE TO AN CANDELA POWER OF VISUAL DEVICES INDICATED ON PLANS ARE THE LEVELS REQUIRED BY NFPA 72 REVISION CALLOUT. ACCESSIBLE AREA. (AND ADA CODES) TO ADEQUATELY COVER THE SPACE, THE CONTRACTOR IS RESPONSIBLE FOR 9. PLENUM RATED CABLE SHALL BE USED WHEN RUN IS IN ENVIRONMENTAL AIR SPACES. 10. ALL WIRING TO BE SUPERVISED. THIS SHALL INCLUDE THE COMMUNICATION LINES FROM THE SYSTEM MEETING THOSE LEVELS, EXCEEDING THOSE LEVELS, OR RECALCULATING QUANTITY & LOCATIONS FOR KEY NOTE, SEE KEY NOTE LEGEND, THESE NOTES ARE SPECIFIC TO THEIR HOST SHEET. COMPLETE COVERAGE. NOTE THAT RELOCATION OF DEVICES IS SUBJECT TO THE ACCEPTANCE OF THE TO THE CENTRAL STATION OR REMOTE SERVICE. Collier County Fire & EMS 11. FIRE ALARM WIRING IS TO BE IDENTIFIED AS SUCH AND THIS IDENTIFICATION SHALL BE DIFFERENT FROM OTHER ELECTRICAL SYSTEM WIRING. AT A MINIMUM: FIRE ALARM CONDUCTOR BURIAL DETAIL A. CONDUIT CONTAINING FIRE ALARM WIRING SHALL BE PAINTED RED AT 5' INTERVALS. 2. ALL STROBES TO BE SYNCHRONIZED. B. ALL JUNCTION BOXES CONTAINING FIRE ALARM WIRING SHALL BE PAINTED RED. 3. THE AUDIO OUTPUT OF ALL AUDIBLE DEVICES SHALL BE A 80 dB (MINIMUM). C. ALL DEVICE BACK BOXES SHALL BE PAINTED RED. 12. ALL DEVICE WIRING NOT IN CONDUIT SHALL HAVE RED SHEATHING. ROADWAY 4. THE SOUND PRESSURE LEVEL AS MEASURED AT SLEEPING ROOM PILLOW LOCATIONS SHALL BE 75 dB COMPACTED FILL 32.008(4)(O) DOCUMENTATION 1. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE OWNER THE FOLLOWING 32.008(4)(D) CIRCUITRY DOCUMENTATION: CIRCUITRY AND CIRCUIT PATHWAYS ARE TO BE: A. OPERATORS MANUALS. B. ACCURATE AS-BUILT PLANS OF THE SYSTEM. A. CLASS "B" B. PATHWAY SURVIVABILITY LEVEL 0 2. THE CONTRACTOR SHALL INSTRUCT THE OWNER AND/OR STAFF IN THE PROPER OPERATION OF THE 32.008(4)(E) FIRE ALARM AND CONTROL FUNCTIONS SYSTEM. THIS TRAINING SHALL BE SCHEDULED WITH THE OWNER AT THEIR CONVENIENCE. SEQUENCE OF OPERATION SCHEDULE 32.008(5) BATTERY AND VOLTAGE DROP CALCULATIONS A. ACTIVATION OF ANY INITIATING DEVICE SHALL: a. CAUSE DEVICE ALARMED TO BE ANNUNCIATED AT FACU AND REMOTE ANNUNCIATOR (IF 1. AS ALLOWED BY RULE 61G15-32.008(5), THE ENGINEER HAS ELECTED NOT TO SPECIFY THE WIRING INSTALLED) AS AN ALARM CONDITION. AND IS THEREFORE NOT REQUIRED TO PROVIDE BATTERY AND VOLTAGE DROP CALCULATIONS. ANY b. NOTIFICATION SHALL BE PROVIDED AUTOMATICALLY BY AN INTERNAL AUDIBLE ALARM SYSTEM WIRING THAT IS SHOWN ON THE ENGINEERING PLANS IS FOR REFERENCE PURPOSES ONLY AND SHALL (1) ALARM WIRING TO BE "WET" LISTED AND IN 3/4" SCH 40 PVC IN ACCORDANCE WITH NFPA-101. NOT BE CONSIDERED SPECIFICATION THEREOF. 2' BELOW FINISH GRADE UNDER STREETS, ROADS, HIGHWAYS, c. SHUT DOWN KITCHEN HOOD SYSTEM. NOTE: HOOD SYSTEM MUST BE CONNECTED SUCH THAT ALLEYS, DRIVEWAYS, AND PARKING LOTS. IF SHUT DOWN BY A FIRE ALARM CONDITION, ACTIVATION OF THE HOOD FIRE SUPPRESSION 2. THE ACTUAL WIRING TO BE INSTALLED SHALL BE PROVIDED BY THE INSTALLING CONTRACTOR IN THE SYSTEM ITSELF WILL RESTART THE EXHAUST FANS. REQUIRED SHOP DRAWINGS. (2) ALARM WIRING TO BE "WET" LISTED AND IN 3/4" SCH 40 PVC d. SHUT DOWN ALL AIR HANDLERS SUPPLYING AIR IN THE ZONE WHERE THE ALARM IS 1'-6" BELOW FINISH GRADE. 3. FOR PURPOSES OF SIZING CONDUCTORS AND PERFORMING CIRCUIT ANALYSIS, THE CONTRACTOR SHALL INSTALL A MAXIMUM QUANTITY OF DEVICES AS FOLLOWS: NOTE: SECTION 300.5 OF NFPA 70 SHALL TAKE PRECEDENCE e. WATER FLOW CONDITIONS ARE TO BE DISTINCTLY ANNUNCIATED AT PANEL (AND REMOTE). OVER ANY INFORMATION IN THIS DETAIL. B. THE FOLLOWING CONDITIONS SHALL CAUSE A SYSTEM TROUBLE CONDITION: A. HORN AND/OR STROBE LOAD SHALL NOT EXCEED 80% OF POWER SUPPLY CAPACITY. a. ANY OPEN OR SHORT CIRCUIT IN ANY NAC, SLC, OR IDC. 4. THE INSTALLING CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS TO PROVIDE BATTERIES OF b. LOSS OF SYSTEM AC POWER SOURCE. c. LOW SYSTEM BATTERY. SUFFICIENT CAPACITY TO SATISFY THE REQUIRED STANDBY POWER AS PRESCRIBED BY CODE: **ABBREVIATIONS** ISSUE DATE: NOV.17.2021 C. THE FOLLOWING CONDITIONS SHALL CAUSE A SYSTEM SUPERVISORY CONDITION: A. 24 HOURS OF OPERATION PLUS 5 MINUTES OF HORN SIGNAL COMM. NO.: 2021814 a. ACTIVATION OF ANY VALVE TAMPER SWITCH. 32.008(6) TEST REQUIREMENTS b. ACTIVATION OF ANY DUCT SMOKE DETECTOR. N/NEU NATIONAL FIRE PROTECTION A/C AIR CONDITIONING D. NOTIFY REMOTE SUPERVISION SERVICE OF ANY SYSTEM ALARM, SYSTEM TROUBLE, AND/OR T ASSOCIATION ALTERNATING CURRENT DRAWN BY: JWB CHECKED BY: JWB THE FIRE ALARM SYSTEM SHALL BE INSPECTED, TESTED, AND MAINTAINED IN ACCORDANCE WITH NFPA SYSTEM SUPERVISORY CONDITION. NFPA NEUTRAL ADA AMERICAN DISABILITY ACT E. THE MONITORING COMPANY SHALL BE DISTINCTLY NOTIFIED OF WATER FLOW CONDITIONS. 72, CHAPTER 14. NPLFA NON POWER LIMITED FIRE AFF/G ABOVE FINISHED FLOOR/GRADE F. COMMUNICATION WITH THE MONITORING STATION SHALL BE BY CELLULAR DACT. FIRE ALARM NOTES & ALARMOVER HEAD AHU AIR HANDLING UNIT G. SUPERVISORY AND TROUBLE SIGNALS SHALL BE ANNUNCIATED AT THE FACU AND REMOTE OVER HEAD Cu COPPER ANNUNCIATOR (IF INSTALLED) AND TRANSMITTED TO MONITORING SERVICE. **POWER DETAILS** H. ALARM AND AUDIBLE ALARM SIGNALS MAY BE SILENCED AT PANEL, VISUAL SIGNALS WILL REMAIN DC DIRECT CURRENT POST INDICATOR VALVE DDCV DOUBLE DETECTOR CHECK PLFA POWER LIMITED FIRE ALARM I. AUXILIARY FIRE CONTROL SYSTEMS (KITCHEN HOOD, HALON, FM2000, ETC...), IF INSTALLED, SHALL INTERCONNECT AND CAUSE SYSTEM ALARM. RS RIGID STEEL CONDUIT EMT ELECTRICAL METALLIC TUBING J. ANY SYSTEM DESIGNED TO PREVENT EGRESS THROUGH EGRESS DOORS SHALL BE INTERFACED RTU ROOF TOP UNIT (THIN WALL) WITH THE FIRE ALARM SYSTEM SUCH THAT, UNDER ALARM CONDITIONS, ALL EGRESS DOORS FACP FIRE ALARM CONTROL PANEL SLC SIGNALING LINE CIRCUIT SHALL BE UNLOCKED. FIRE DEPARTMENT CONNECTION T/TELE TELEPHONE FSR FIRE SPRINKLER RISER TVSS TRANSIENT VOLTAGE SURGE EACH ALARM DEVICE TO BE SEPARATELY ANNUNCIATED AT MAIN ALARM PANEL (FACP) AND AUXILIARY SUPPRESSION HGT HEIGHT PANEL (IF REQUIRED ON THIS PROJECT). UNDERGROUND INITIATING DEVICE CIRCUIT UNDERWRITERS LABORATORIES JUNCTION BOX UNO UNLESS NOTED OTHERWISE LV LOW VOLTAGE WEATHER PROOF WP

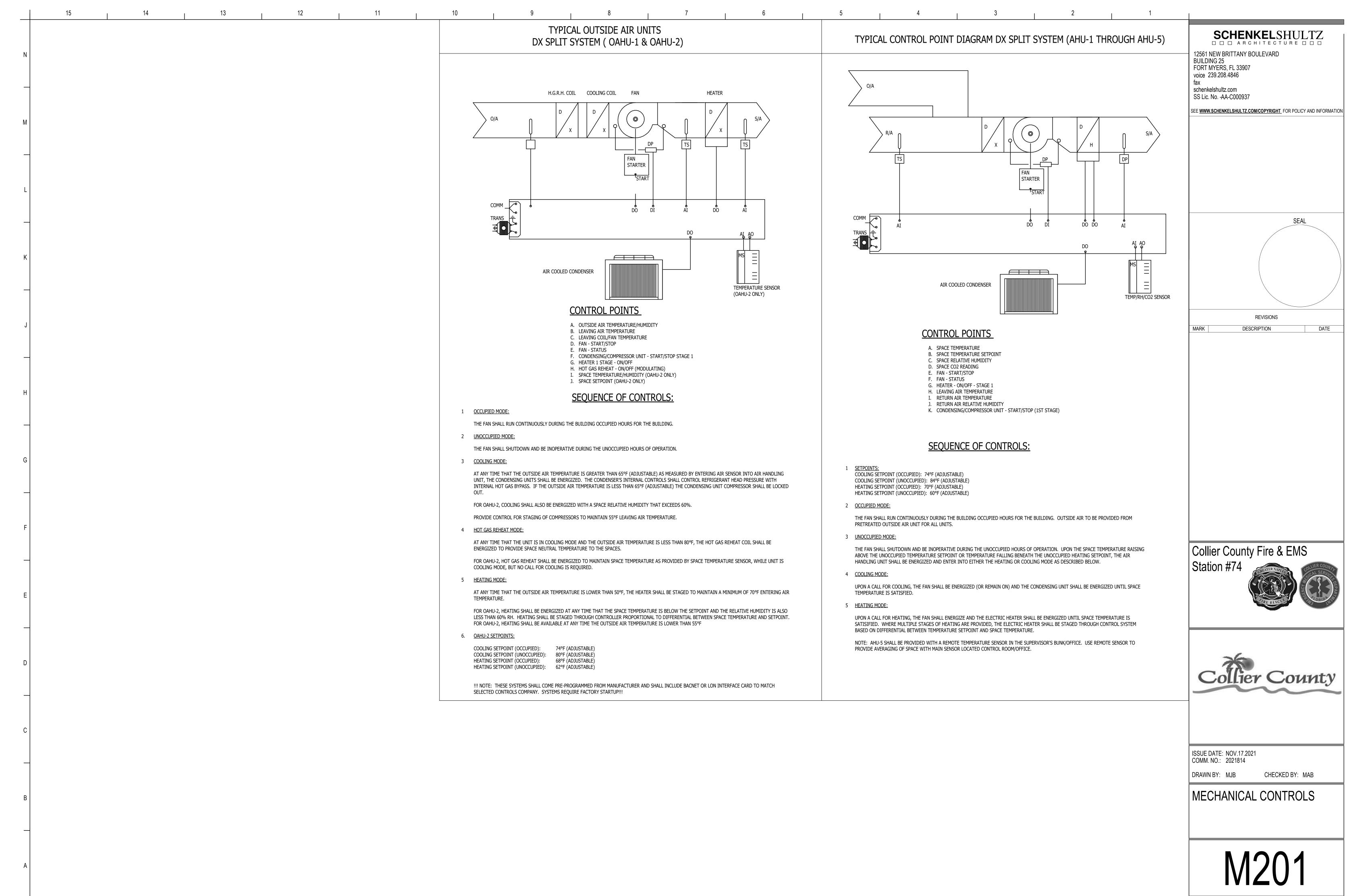


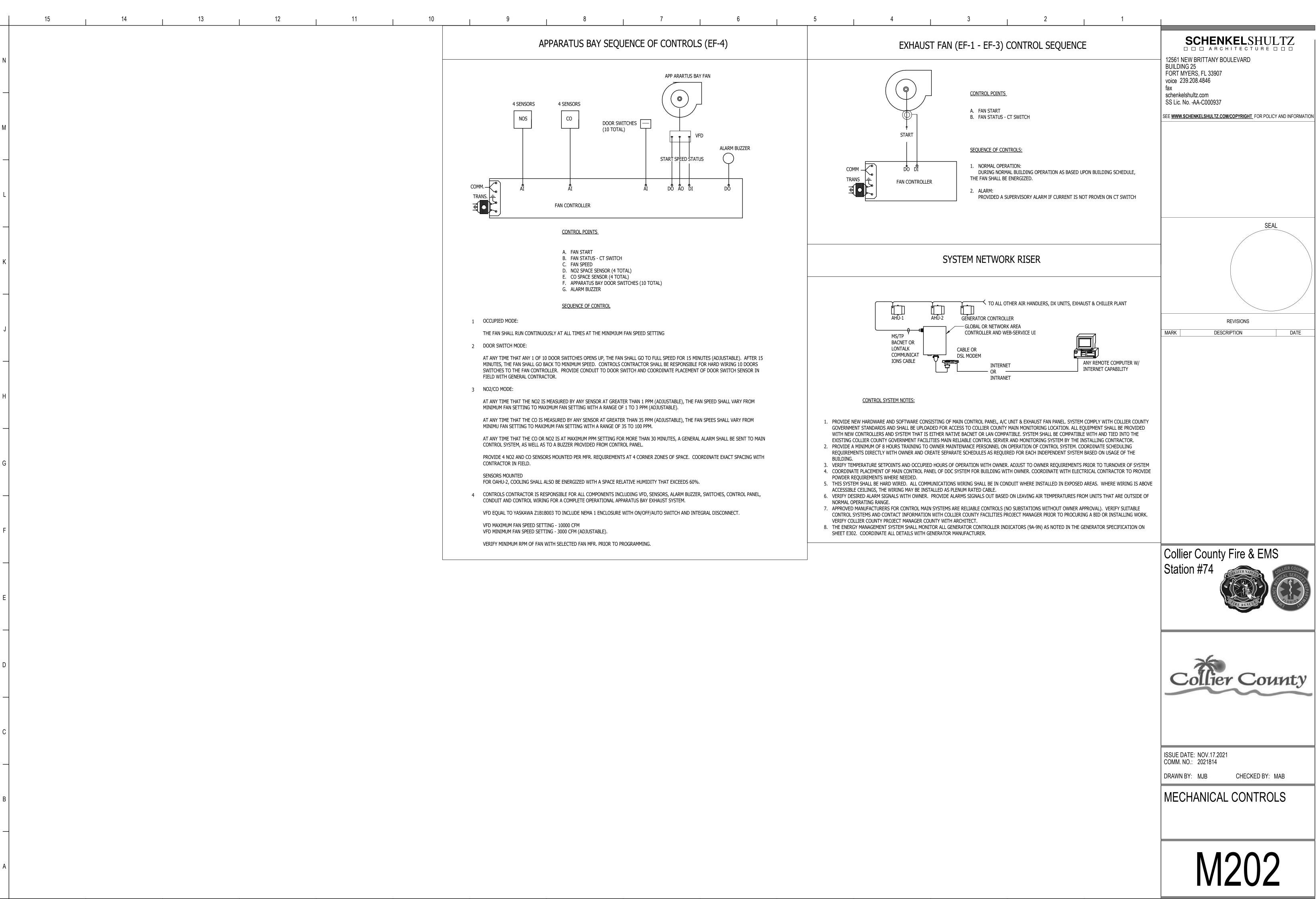


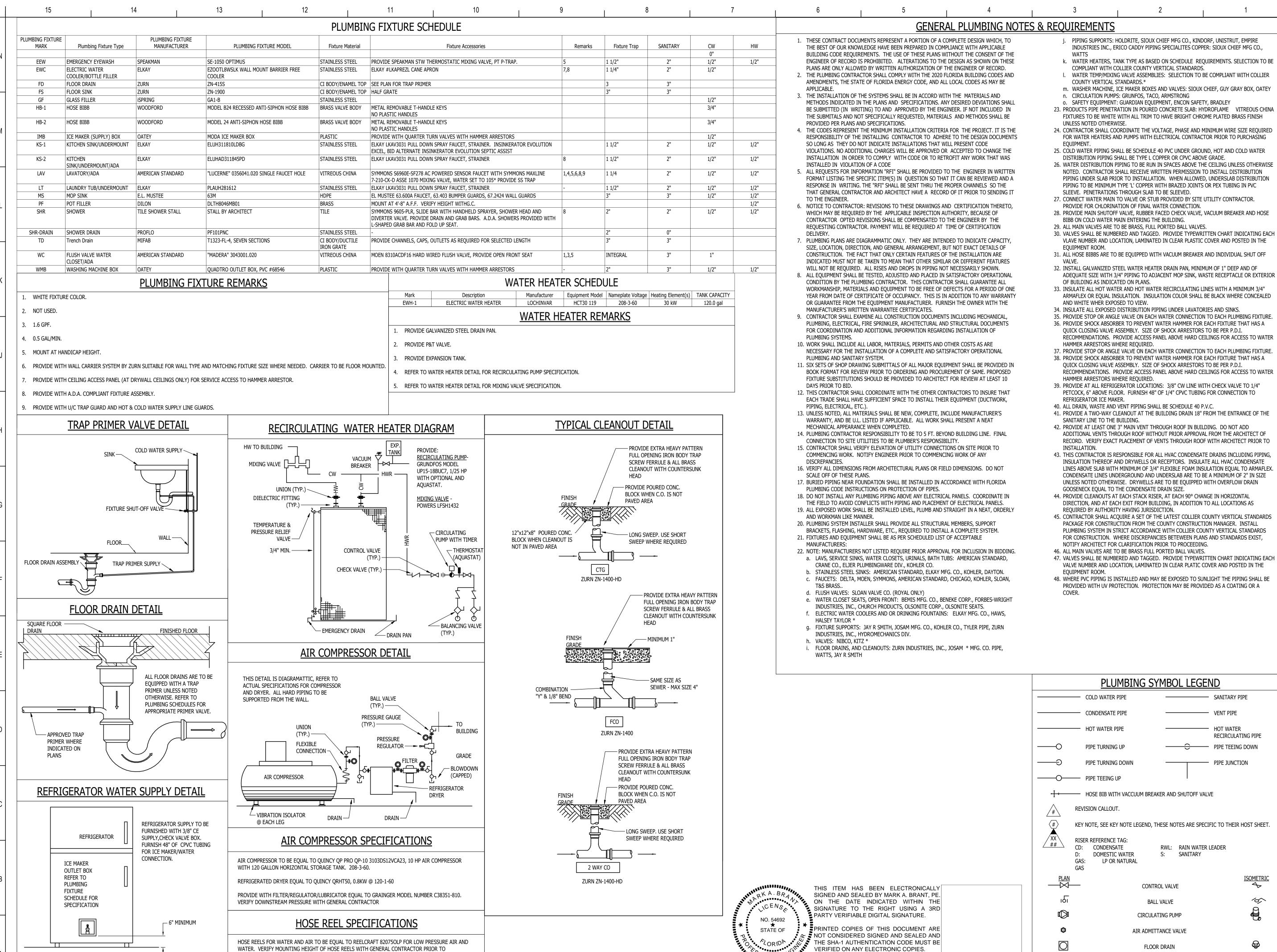












INSTALLATION.

- INDUSTRIES INC., ERICO CADDY PIPING SPECIALITES COPPER: SIOUX CHIEF MFG CO.,
- k. WATER HEATERS, TANK TYPE AS BASED ON SCHEDULE REOUIREMENTS, SELECTION TO BE COMPLIANT WITH COLLIER COUNTY VERTICAL STANDARDS.
- I. WATER TEMP/MIXING VALVE ASSEMBLIES: SELECTION TO BE COMPLIANT WITH COLLIER COUNTY VERTICAL STANDARDS.*
- m. Washer Machine, Ice Maker Boxes and Valves: Sioux Chief, Guy Gray Box, Oatey n. CIRCULATION PUMPS: GRUNFOS, TACO, ARMSTRONG
- o. SAFETY EQUIPMENT: GUARDIAN EQUIPMENT, ENCON SAFETY, BRADLEY 23. PRODUCTS PIPE PENETRATION IN POURED CONCRETE SLAB: HYDROFLAME VITREOUS CHINA
- UNLESS NOTED OTHERWISE. 24. CONTRACTOR SHALL COORDINATE THE VOLTAGE, PHASE AND MINIMUM WIRE SIZE REQUIRED FOR WATER HEATERS AND PUMPS WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING
- EQUIPMENT. 25. COLD WATER PIPING SHALL BE SCHEDULE 40 PVC UNDER GROUND, HOT AND COLD WATER
- 26. WATER DISTRIBUTION PIPING TO BE RUN IN SPACES ABOVE THE CEILING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL RECEIVE WRITTEN PERMISSION TO INSTALL DISTRIBUTION PIPING UNDER SLAB PRIOR TO INSTALLATION. WHEN ALLOWED, UNDERSLAB DISTRIBUTION PIPING TO BE MINIMUM TYPE 'L' COPPER WITH BRAZED JOINTS OR PEX TUBING IN PVC
- SLEEVE. PENETRATIONS THROUGH SLAB TO BE SLEEVED. 27. CONNECT WATER MAIN TO VALVE OR STUB PROVIDED BY SITE UTILITY CONTRACTOR.
- PROVIDE FOR CHLORINATION OF FINAL WATER CONNECTION. 28. PROVIDE MAIN SHUTOFF VALVE, RUBBER FACED CHECK VALVE, VACUUM BREAKER AND HOSE BIBB ON COLD WATER MAIN ENTERING THE BUILDING.
- 29. ALL MAIN VALVES ARE TO BE BRASS, FULL PORTED BALL VALVES. 30. VALVES SHALL BE NUMBERED AND TAGGED. PROVIDE TYPEWRITTEN CHART INDICATING EACH
- VLAVE NUMBER AND LOCATION, LAMINATED IN CLEAR PLASTIC COVER AND POSTED IN THE EQUIPMENT ROOM.
- 31. ALL HOSE BIBBS ARE TO BE EQUIPPED WITH VACUUM BREAKER AND INDIVIDUAL SHUT OFF 32. INSTALL GALVANIZED STEEL WATER HEATER DRAIN PAN, MINIMUM OF 1" DEEP AND OF
- OF BUILDING AS INDICATED ON PLANS. 33. INSULATE ALL HOT WATER AND HOT WATER RECIRCULATING LINES WITH A MINIMUM 3/4"
- ARMAFLEX OR EQUAL INSULATION. INSULATION COLOR SHALL BE BLACK WHERE CONCEALED AND WHITE WHER EXPOSED TO VIEW.
- 34. INSULATE ALL EXPOSED DISTRIBUTION PIPING UNDER LAVATORIES AND SINKS. 35. PROVIDE STOP OR ANGLE VALVE ON EACH WATER CONNECTION TO EACH PLUMBING FIXTURE.
- 36. PROVIDE SHOCK ABSORBER TO PREVENT WATER HAMMER FOR EACH FIXTURE THAT HAS A OUICK CLOSING VALVE ASSEMBLY. SIZE OF SHOCK ARRESTORS TO BE PER P.D.I.
- RECOMMENDATIONS. PROVIDE ACCESS PANEL ABOVE HARD CEILINGS FOR ACCESS TO WATER HAMMER ARRESTORS WHERE REQUIRED. 37. PROVIDE STOP OR ANGLE VALVE ON EACH WATER CONNECTION TO EACH PLUMBING FIXTURE.
- 38. PROVIDE SHOCK ABSORBER TO PREVENT WATER HAMMER FOR EACH FIXTURE THAT HAS A QUICK CLOSING VALVE ASSEMBLY. SIZE OF SHOCK ARRESTORS TO BE PER P.D.I. RECOMMENDATIONS. PROVIDE ACCESS PANEL ABOVE HARD CEILINGS FOR ACCESS TO WATER
- HAMMER ARRESTORS WHERE REQUIRED. 39. PROVIDE AT ALL REFRIGERATOR LOCATIONS: 3/8" CW LINE WITH CHECK VALVE TO 1/4" PETCOCK, 6" ABOVE FLOOR. FURNISH 48" OF 1/4" CPVC TUBING FOR CONNECTION TO
- REFRIGERATOR ICE MAKER 40. ALL DRAIN, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 P.V.C.
- 41. PROVIDE A TWO-WAY CLEANOUT AT THE BUILDING DRAIN 18" FROM THE ENTRANCE OF THE SANITARY LINE TO THE BUILDING.
- 42. PROVIDE AT LEAST ONE 3" MAIN VENT THROUGH ROOF IN BUILDING. DO NOT ADD ADDITIONAL VENTS THROUGH ROOF WITHOUT PRIOR APPROVAL FROM THE ARCHITECT OF RECORD. VERIFY EXACT PLACEMENT OF VENTS THROUGH ROOF WITH ARCHITECT PRIOR TO
- 43. THIS CONTRACTOR IS RESPONSIBLE FOR ALL HVAC CONDENSATE DRAINS INCLUDING PIPING. INSULATION THEREOF AND DRYWELLS OR RECEPTORS. INSULATE ALL HVAC CONDENSATE LINES ABOVE SLAB WITH MINIMUM OF 3/4" FLEXIBLE FOAM INSULATION EQUAL TO ARMAFLEX CONDENSATE LINES UNDERGROUND AND UNDERSLAB ARE TO BE A MINIMUM OF 2" IN SIZE UNLESS NOTED OTHERWISE. DRYWELLS ARE TO BE EQUIPPED WITH OVERFLOW DRAIN GOOSENECK EQUAL TO THE CONDENSATE DRAIN SIZE.
- 44. PROVIDE CLEANOUTS AT EACH STACK RISER, AT EACH 90° CHANGE IN HORIZONTAL DIRECTION, AND AT EACH EXIT FROM BUILDING, IN ADDITION TO ALL LOCATIONS AS REQUIRED BY AUTHORITY HAVING JURISDICTION.
- 5. CONTRACTOR SHALL ACQUIRE A SET OF THE LATEST COLLIER COUNTY VERTICAL STANDARDS PACKAGE FOR CONSTRUCTION FROM THE COUNTY CONSTRUCTION MANAGER. INSTALL PLUMBING SYSTEM IN STRICT ACCORDANCE WITH COLLIER COUNTY VERTICAL STANDARDS FOR CONSTRUCTION. WHERE DISCREPANCIES BETEWEEN PLANS AND STANDARDS EXIST, NOTIFY ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING.
- 46. ALL MAIN VALVES ARE TO BE BRASS FULL PORTED BALL VALVES. 47. VALVES SHALL BE NUMBERED AND TAGGED. PROVIDE TYPEWRITTEN CHART INDICATING EACH VALVE NUMBER AND LOCATION, LAMINATED IN CLEAR PLATIC COVER AND POSTED IN THE
- 48. WHERE PVC PIPING IS INSTALLED AND MAY BE EXPOSED TO SUNLIGHT THE PIPING SHALL BE PROVIDED WITH UV PROTECTION. PROTECTION MAY BE PROVIDED AS A COATING OR A

PLUMBING SYMBOL LEGEND

RWL: RAIN WATER LEADER

S: SANITARY

CONTROL VALVE

BALL VALVE

CIRCULATING PUMP

AIR ADMITTANCE VALVE

FLOOR DRAIN

DOMESTIC WATER

LP OR NATURAL

SCHENKELSHULTZ □ □ □ ARCHITECTURE □ □ □

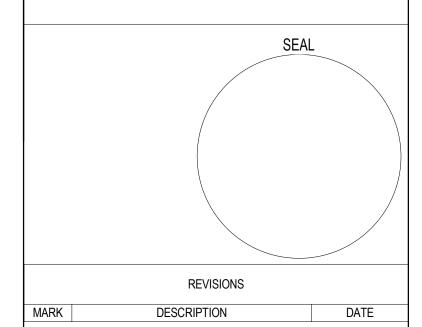
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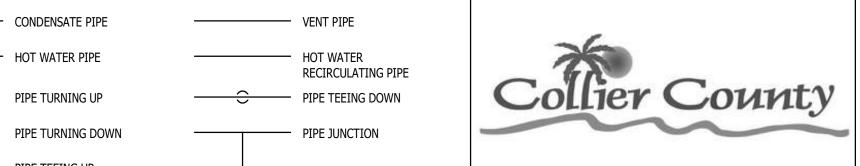
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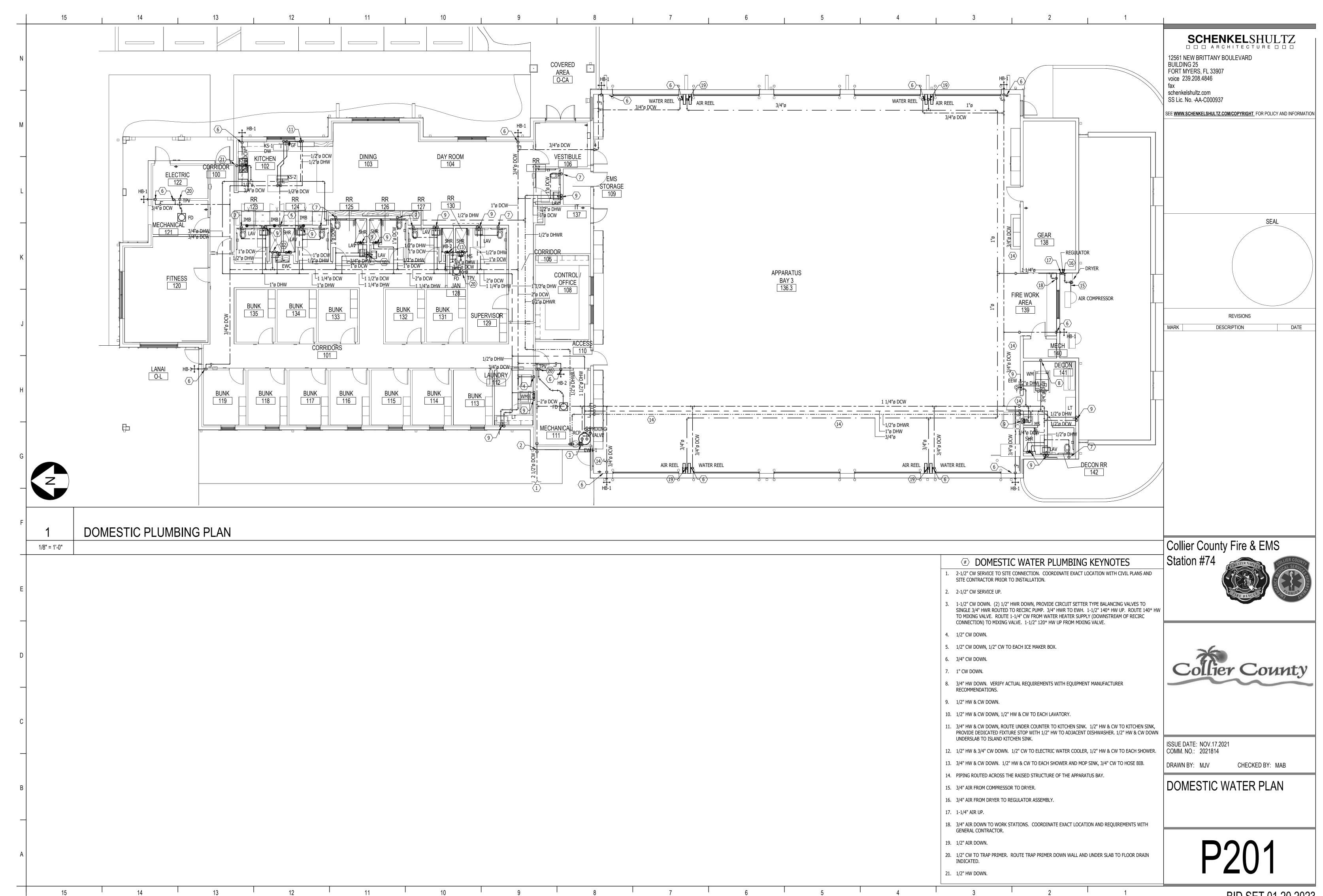
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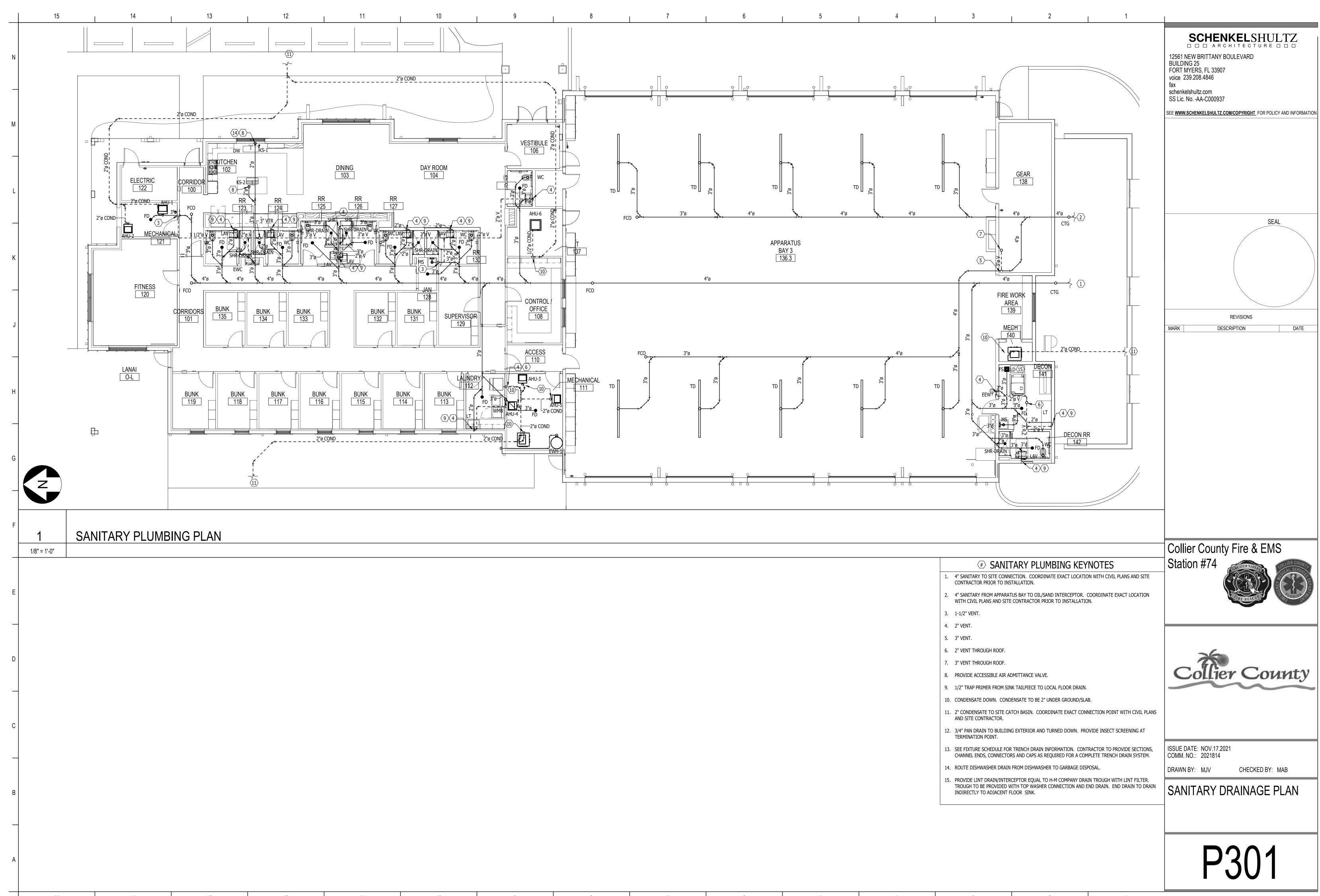
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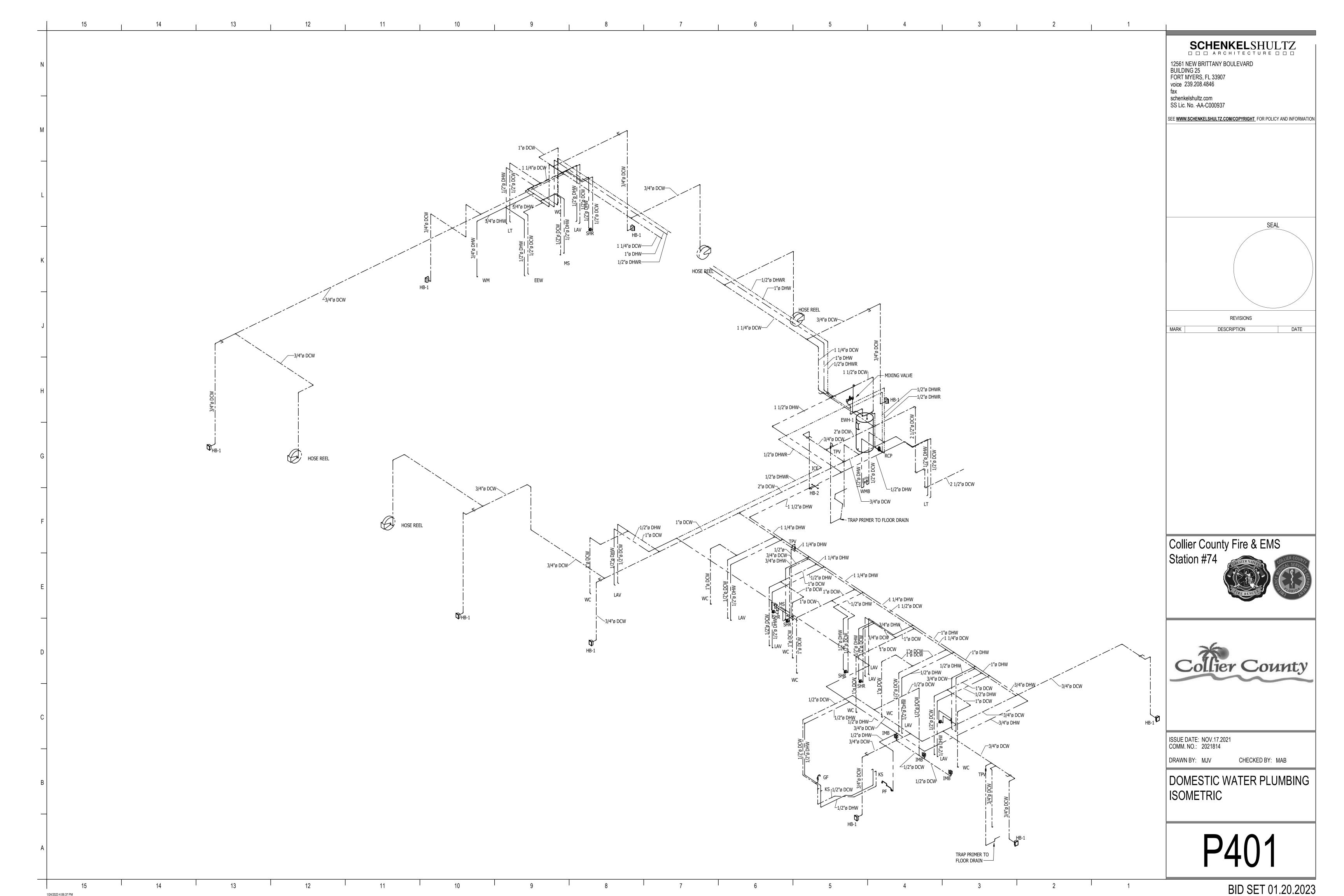
PLUMBING NOTES AND **SCHEDULES**

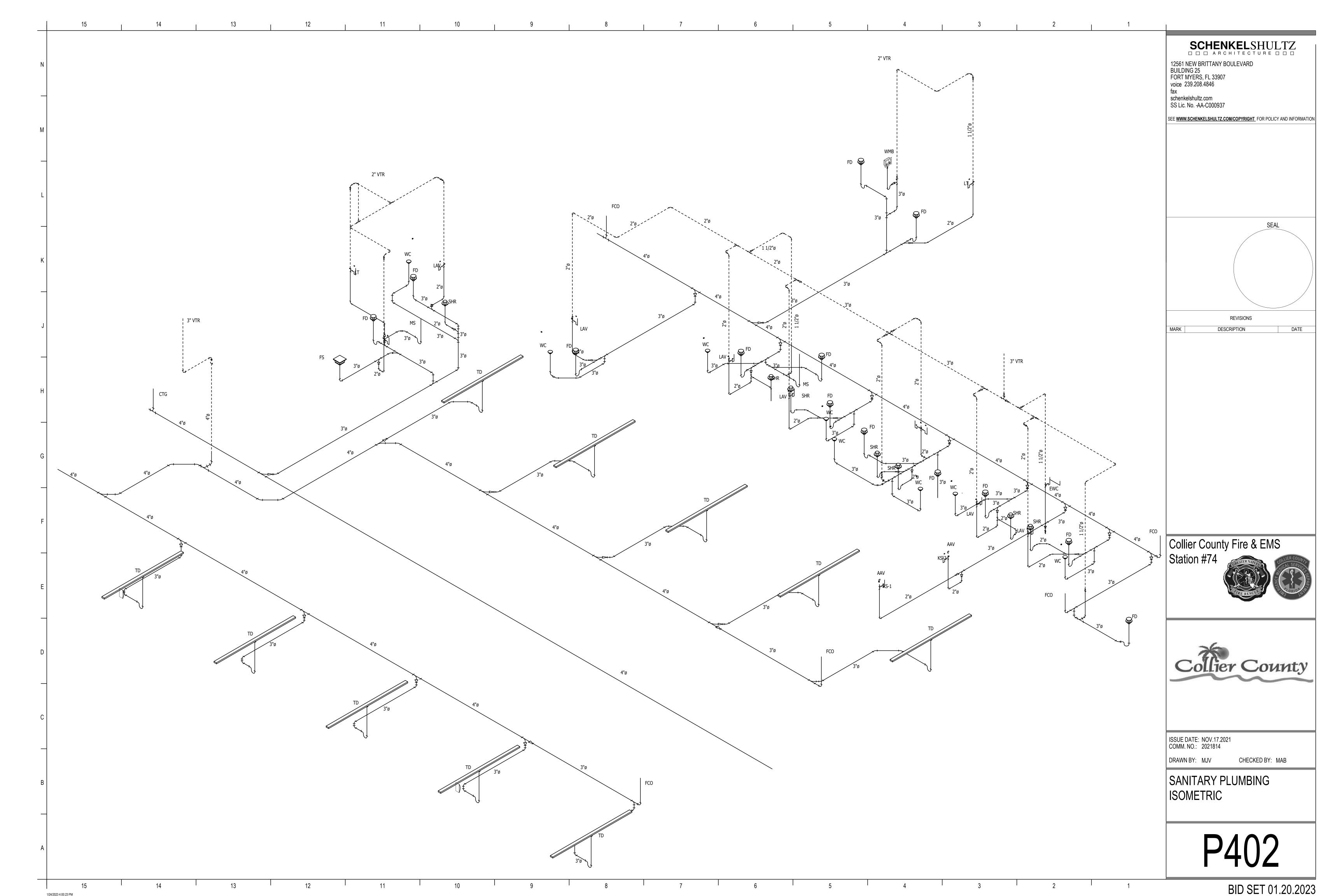
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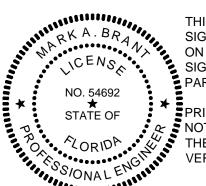


FIRE SPRINKLER SYMBOL LEGEND FIRE PROTECTION GENERAL NOTES 1. THE FIRE PROTECTION SPRINKLER SYSTEM(S) SHALL BE HYDRAULICALLY CALCULATED BY FIRE ♥ FIRE DEPARTMENT CONNECTION SPRINKLER CONTRACTOR, IN STRICT ACCORDANCE WITH 2016 EDITION OF NFPA STANDARDS # FIRE HYDRANT 2. WORK SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS AND OTHER COSTS AS ARE NECESSARY FOR THE INSTALLATION OF A COMPLETE AND SATISFACTORY OPERATIONAL TAMPER SWITCH SPRINKLER SYSTEM. CHECK VALVE 3. THIS CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS TO ENSURE THAT EACH TRADE SHALL HAVE SUFFICIENT SPACE TO INSTALL THEIR EQUIPMENT (DUCTWORK, PIPING, CONTROL VALVE ELECTRICAL, ETC.). * NOTE HVAC DUCTWORK MUST BE GIVEN PRIORITY IN LAYOUT. OFFSET SPRINKLER MAINS UP OR DOWN AS REQUIRED TO AVOID CONFLICT WITH DUCTWORK. COORDINATE IN THE FIELD WITH HVAC CONTRACTOR. PENDENT SPRINKLER HEAD 4. IN GENERAL, ALL PIPING SHALL BE RUN CONCEALED IN CEILING AND PIPE SPACES PROVIDED UPRIGHT SPRINKLER HEAD UNLESS NOTED OR INDICATED OTHERWISE. ALL PIPING OF ANY TYPE OR FUNCTION SHALL BE SUSPENDED FROM THE STRUCTURE WITH U.L. APPROVED HANGERS. SIDEWALL SPRINKLER HEAD 5. VERIFY ALL DIMENSIONS FROM ARCHITECTURAL PLANS AND FIELD DIMENSIONS. SPECIFIC NOTE RELATIVE TO SINGLE CALL OUT, SEE SPECIFIC NOTE LEGEND, THESE 6. UNLESS NOTED, ALL MATERIALS SHALL BE NEW, COMPLETE, INCLUDE MANUFACTURER'S NOTES ARE PROJECT WIDE. WARRANTY, AND BE U.L. APPROVED IF APPLICABLE. ALL WORK SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED. REVISION CALLOUT. 7. THE COMPLETED FIRE SPRINKLER SYSTEM SHALL MEET WITH THE APPROVAL OF THE STATE OF KEY NOTE, SEE KEY NOTE LEGEND, THESE NOTES ARE SPECIFIC TO THEIR HOST SHEET FLORIDA AND THE LOCAL AUTHORITY HAVING JURISDICTION. 8. THE FIRE PROTECTION CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FIRE MAIN PIPING AND PAY ALL REQUIRED FEES PRIOR TO COMMENCING WORK. DASHED LINE INDICATES EXISTING CONDITIONS 9. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL PIPING, INCLUDING ALL NECESSARY VALVES AND FIRE DEPARTMENT CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERABLE * SPRINKLER HEADS MAY BE RELOCATED AS NEEDED TO COMPLY WITH STRUCTURAL OR TRADE SYSTEM. FIRE PROTECTION CONTRACTOR IS ALSO RESPONSIBLE FOR ALL FIRE PUMPS, JOCKEY PUMPS, VALVE, AND CONTROLLERS AT FIRE PUMP AREA. REFER TO CIVIL ENGINEERING DRAWINGS ISSUES, PROVIDING THAT MAX. COVERAGE IS MAINTAINED AS OUTLINED IN 61G15 NOTES. FOR DETAILS OF CONSTRUCTION AND SPECIFICATION OF THESE ITEMS. 10. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PURCHASE AND INSTALLATION OF ALL TAMPER SWITCHES AND FLOW MONITOR DEVICES. BACKFLOW PREVENTER, FDC & RISER DETAIL 11. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROVIDING WORKING DRAWINGS FOR SUBMISSION TO LOCAL AUTHORITY HAVING JURISDICTION. 12. SPARE SPRINKLERS SHALL BE PROVIDED AT THE QUANTITIES NECESSARY FOR ALL TYPES AND RATINGS IN STRICT ACCORDANCE WITH NFPA #13. 13. ABOVE GROUND PIPING: A. UP TO 2" SCHEDULE 40 BLACK STEEL, ROLL GROOVE OR WELD FITTING, NO WELDING ON SITE. WHERE PIPING SERVES LIGHT HAZARD AREAS AND IS DOWNSTREAM OF PRESSURE REDUCING VALVES, CPVC PIPING EQUAL TO "BLAZEMASTER" MAY BE UTILIZED WHEN CONCEALED BY NON TO SPRINKLER SYSTEM COMBUSTIBLE STRUCTURE AND SERVING LIGHT HAZARD LOCATIONS. B. 2" AND LARGER, SCHEDULE 10 OR ALLIED XL, OR DUCTILE IRON WITH MECHANICAL JOINTS.VALVES: ALL VALVES SHALL BE UL LISTED, RATED AT 1.5 TIMES THE WORKING FIRE SERVICE MAIN PRESSURE OF THE PIPE TO WHICH IS ATTACHED. C. ALL STEEL PIPING SHALL BE PROVIDED WITH INTERNAL LINING EQUAL TO "EDDY GAURD II" - FLOW SWITCH — 4"x4" 90° EL. COATING BY BULL MOOSE TUBE OR APPROVED EQUAL. MAIN DRAIN W/ AANGLE VALVE - PRESSURE GA. 14. VALVES: ALL VALVES SHALL BE UL LISTED, RATED AT 1.5 TIMES THE WORKING PRESSURE OF 4" UL CHECK VALVE — THE PIPE TO WHICH IT IS ATTACHED W/BALL FRIP ON RISER 15. SPRINKLER CONTRACTOR SHALL VISIT THE PROJECT SITE TO STUDY AND FAMILIARIZE HIM/HER-SELF WITH THE SITE AND CONSTRUCTION TYPES, (I.E. TRUSS MATERIALS). 16. PIPE HANGERS: U.L. LISTED WITH ALL THREAD RODS AND RING HANGERS. ALL CONCEALED PIPE HANGERS SHALL BE HOT-DIPPED GALVANIZED STEEL. 4"x2.5"x 2.5" SIAMESE — W/CAPS THREADS TO 17. PROVIDE APPROVED U.L. FIRE PENETRATION SYSTEM FOR PENETRATION OF ALL FIRE WALLS MEET LOCAL FIRE DEPT. AND CEILINGS. SUBMIT PROPOSED MEANS OF FIRESTOPPING FOR ENGINEER TO REVIEW. - WHERE INSTALLED IN TRAFFICE AREA PROVIDE 7' LONG 6" STEEL PIPE FILLED 18. FLOW SWITCH: BY SPRINKLER CONTRACTOR. INSIDE BUILDING WITH COMNCRETE AND BURIED TO A MINIMUM 4' BELOW PAVEMENT & PAINTED 19. PROVIDE CALCULATION PLATE AND COPY OF NFPA 25, ABOVE AND UNDERGROUND TEST TRAFFICE YELLOW AT EACH CORNER. CERTIFICATES TO OWNER AND FIRE OFFICIALS WHEN COMPLETED. FROM SITE 20. SPRINKLER HEADS: ALL HEADS ARE ORDINARY TEMPERATURE RATED (AS DEFINED BY N.F.P.A. 13) UNLESS OTHERWISE INDICATED ON PLANS. PROVIDE INTERMEDIATE TEMPERATURE HEADS IN UNCONDITIONED SPACES. ALL SPRINKLERS SHALL BE QUICK RESPONSE SPRINKLERS. RISER DETAIL 21. CEILING MOUNTED: 5.6 OR 8.0 K FACTOR, CONCEALED HEAD SPRINKLERS (UNLESS OTHERWISE NOTED ON PLANS), ALL CEILING MOUNTED SPRINKLERS SHALL BE CONCEALED HEAD SPRINKLERS. UPRIGHT SPRINKLERS SHALL BE PROVIDED WHERE NO CEILING IS PROVIDED. **RETURN BEND DETAIL** FIRE DEPT. CONNECTION POST INDICATOR W — 1/2 IN BALL DRIP -1" NIPPLE — UL WATER CHECK VALVE -1" X 1/2" REDUCER — UL LISTED CHECK VALVE CEILING -FLANGED POST INDICATOR PRECAST HOLE 1" -LARGER THAN PENDENT SPRINKLER HEAD — PROVIDE RETURN BEND AT ALL SPRINKLER HEADS

PRIVATELY

MAINTAINED

CHECK VALVE - PROFILE



THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY MARK A. BRANT, PE. ON THE DATE INDICATED WITHIN THE SIGNATURE TO THE RIGHT USING A 3RD PARTY VERIFIABLE DIGITAL SIGNATURE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

<u>PIRE PROTECTION 61G15 NOTES</u>

61G15-32.003 (1) (2) (5):

1. SCOPE OF WORK:

THE NATURE AND SCOPE OF WORK IS THE CONSTRUCTION AND INSTALLATION OF A FULLY OPERATIONAL AUTOMATIC FIRE SPRINKLER SYSTEM FOR A NEW ONE STORY EMS/FIRE STATION. THE BUILDING IS CONSTRUCTED AS A METAL BUILDING WITH A METAL ROOF.

NFPA 13, 2016 EDITION, INSTALLATION OF SPRINKLER SYSTEMS
NFPA 20, 2016 EDITION, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION

(2) ACCEPTANCE TEST CRITERIA:

THE ACCEPTANCE TESTING OF THE FIRE PROTECTION SYSTEM AND COMPONENTS SHALL CONSIST OF ALL APPLICABLE ITEMS SHOWN ON NFPA 13 ON THESE TWO FORMS: FIGURE 25.1, CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR ABOVEGROUND PIPING. FIGURE 10.10.1, CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING.

(5) STRUCTURAL SUPPORT AND STRUCTURAL OPENINGS:

THE ENGINEER ADVISES THAT ALL STRUCTURAL OPENINGS AND SUPPORT SYSTEMS FOR THE BUILDING, INCLUDING BOTH THE LIVE AND DEAD LOADS OF THE FIRE SPRINKLER INSTALLATION HAVE BEEN ACCOUNTED FOR IN THE STRUCTURAL DESIGN OF THE SHELL BUILDING CONTINGENT UPON SIMILAR STATEMENT OFFERED BY BUILDING STRUCTURAL ENGINEER.

61G15-32.004 (2):

(A) POINT OF SERVICE:

THE POINT OF SERVICE FOR LOCATION OF DEDICATED SOURCE FOR FIRE SPRINKLER SYSTEM IS A NEW 12" WELL AND VERTICAL TURBINE FIRE PUMP AS SHOWN ON CIVIL PLANS AND WELL AS DESIGNED BY DRMP INC.

(B) APPLICABLE NFPA STANDARD TO BE APPLIED:

NFPA 13, 2016 EDITION: "INSTALLATION OF SPRINKLER SYSTEMS"
NFPA 13, 2016 EDITION: "INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION"

(C) CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA:

CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH SPACE:
CORRIDORS, OFFICES, COVERED OUTDOOR AREAS, SEATING AREAS, BEDROOMS, CLASSROOMS,
BATHROOMS – LAYOUT AS LIGHT HAZARD OCCUPANCY
KITCHEN, CLOSETS, STORAGE ROOMS, APPARATUS BAY, MECHANICAL AND ELECTRICAL ROOMS LAYOUT AS ORDINARY HAZARD GROUP I

(D) <u>DESIGN APPROACH</u>:

FIRE PROTECTION SHALL BE PROVIDED BY A WET PIPE AUTOMATIC FIRE SPRINKLER SYSTEM, USING BLACK STEEL, SCHEDULE 40 STEEL PIPING ON ALL PIPING LESS THAN (INCLUDING) 2 INCH IN SIZE WITH THREADED DUCTILE IRON FITTINGS AND SCHEDULE 10 BLACK STEEL ON ALL PIPING GREATER THAN 1 1/4" INCH IN SIZE WITH WELD OR GROOVED FITTINGS. SPRINKLER COVERAGE SHALL BE AS INDICATED BELOW FOR EACH CLASSIFICATION AS INDICATED FOR SPACE TYPES. USE PENDANT SPRINKLERS FOR ALL SPRINKLERS IN FINISHED CEILINGS. ALL SPRINKLERS SHALL BE A MINIMUM OF 5.6 K FACTOR AND ORDINARY TEMPERATURE AS DEFINED BY TABLE 6.2.5.1. SPRINKLER SPACING SHALL BE IN ACCORDANCE WITH NFPA 13 AS WELL AS THE LISTING OF THE INSTALLED SPRINKLER. ALL SPRINKLERS SHALL BE QUICK RESPONSE SPRINKLERS.

LIGHT HAZARD AREAS SHALL BE COVERED WITH A MINIMUM OF .1 GPM PER SQUARE FOOT FOR A MINIMUM OF 1500 SQUARE FEET WITH A MAXIMUM OF 130 SQUARE FEET PER SPRINKLER.

ORDINARY HAZARD GROUP 1 AREAS SHALL BE COVERED WITH A MINIMUM OF .15 GPM PER SQUARE FOOT FOR A MINIMUM OF 1500 SQUARE FEET WITH A MAXIMUM OF 130 SQUARE FEET PER SPRINKLER.

THE CONTRACTOR SHALL USE QUICK RESPONSE HEADS AND THE CONTRACTOR MAY REDUCE COVERAGE AREA IN ACCORDANCE WITH FIGURE 11.2.3.2.3.1 IN NFPA 13.

(E) CHARACTERISTICS OF THE WATER SUPPLY TO BE USED:

THE WATER SUPPLY SHALL BE PROVIDED FROM A NEW VERTICAL TURBINE WELL FIRE PUMP. REFER TO CIVIL ENGINEER FOR SPECIFICATION AND DETAILS OF CONSTRUCTION.

(F) <u>FLOW TEST DATA</u>:

THERE IS NO HYDRANT OR LOCAL WATER SUPPLY, HENCE NO FLOW TEST. THE WELL HAS BEEN DESIGNED BY DRMP, INC., AND IS DESIGNED TO PROVIDE A CONTINUOUS 625 GPM FOR A MINIMUM DURATION OF 2 HOURS.

(G) <u>VALVING AND ALARM REQUIREMENTS TO MINIMIZE POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER</u>:

A NEW FIRE SPRINKLER RISER FOR THIS BUILDING SHALL BE PROVIDED. IT IS TO BE PROVIDED WITH WATER FLOW SWITCH WITH REMOTE MONITORING. ALL SHUTOFF VALVES INCLUDING BACKFLOW PREVENTER VALVES ARE TO BE PROVIDED WITH TAMPER SWITCHES MONITORED BY THE BUILDING FIRE ALARM SYSTEM.

(H) MICROBIAL INDUCED CORROSION (MIC):

THE LOCAL WATER PURVEYOR IS UNAWARE OF ANY CASES OF MIC PRESENTLY IN THE WELL SYSTEM. HOWEVER, ALL STEEL PIPING SUBJECT TO CORROSION SHALL BE INTERNALLY LINED WITH BACTERIAL RESISTANT INTERNAL LINING EQUAL TO "EDDY GUARD II" COATING BY BULL MOOSE TUBE OR EQUAL.

(I) BACKFLOW PREVENTION AND METERING SPECIFICATIONS:

THE BACKFLOW PREVENTION DEVICE ASSEMBLY AND THE METERING EQUIPMENT SHALL BE PROVIDED AS NEW WITH U.L. LISTED DEVICES AND THE BACKFLOW PREVENTER VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES MONITORED BY FIRE ALARM SYSTEM.

(J) QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION

ALL NEW FIRE PROTECTION EQUIPMENT SHALL BE UL OR FM LISTED AND CONFORM TO NFPA 13.

(K) A DETERMINATION OF WHETHER A FIRE PUMP IS REQUIRED AND IF SO, THE SPECIFIC VOLUMETRIC FLOW AND PRESSURE RATING OF THE PUMP

A NEW DEEP WATER WELL WITH VERTICAL TURBINE FIRE PUMP SHALL BE PROVIDED TO SATISFY THE REQUIREMENT OF A MINIMUM OF 625 GPM @ PUMP DISCHARGE PRESSURE OF 50 PSI AND JOCKEY PUMP OF 7.5 GPM @ PUMP DISCHARGE PRESSURE OF 50 PSI INCLUDING FIRE PUMP CONTROLLER AND JOCKEY PUMP CONTROLLER SHALL BE PROVIDED FOR THE FIRE SPRINKLER REQUIREMENTS AS WELL AS THE REQUIREMENTS PER NFPA 1, SECTION 18.4.5.2.1 AND 18.4.5.3.3. REFER TO CIVIL ENGINEERING DRAWINGS FOR MORE DETAILS OF CONSTRUCTION, SPECIFICATION OF THESE ITEMS AND LOCATION OF THESE DEVICES.

(L) <u>A VERIFICATION OF WHETHER A FIRE WATER STORAGE TANK IS REQUIRED ON SITE AND IF SO, A DETERMINATION OF THE SIZE AND CAPACITY REQUIRED</u>

THE BUILDING DOES NOT REQUIRE A FIRE WATER STORAGE TANK.

(M) OWNER'S CERTIFICATE, IN STORAGE OCCUPANCIES

THE BUILDING IS NOT A STORAGE FACILITY AND HENCE NO OWNER'S CERTIFICATE IS REQUIRED.

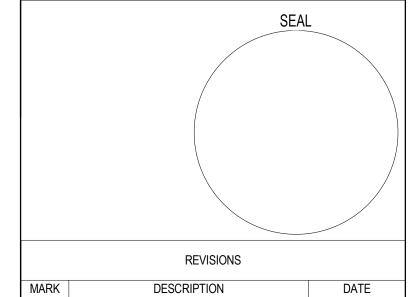
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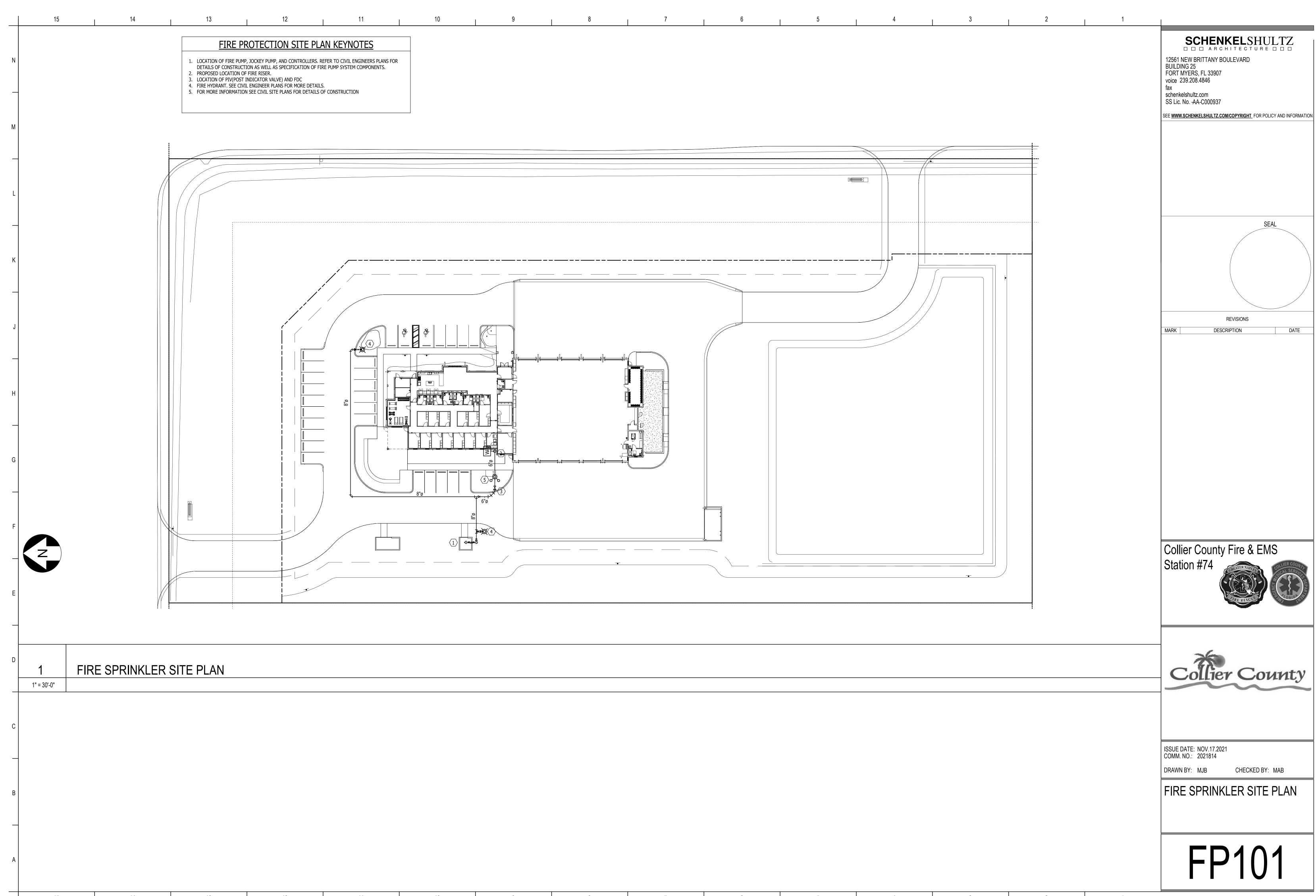
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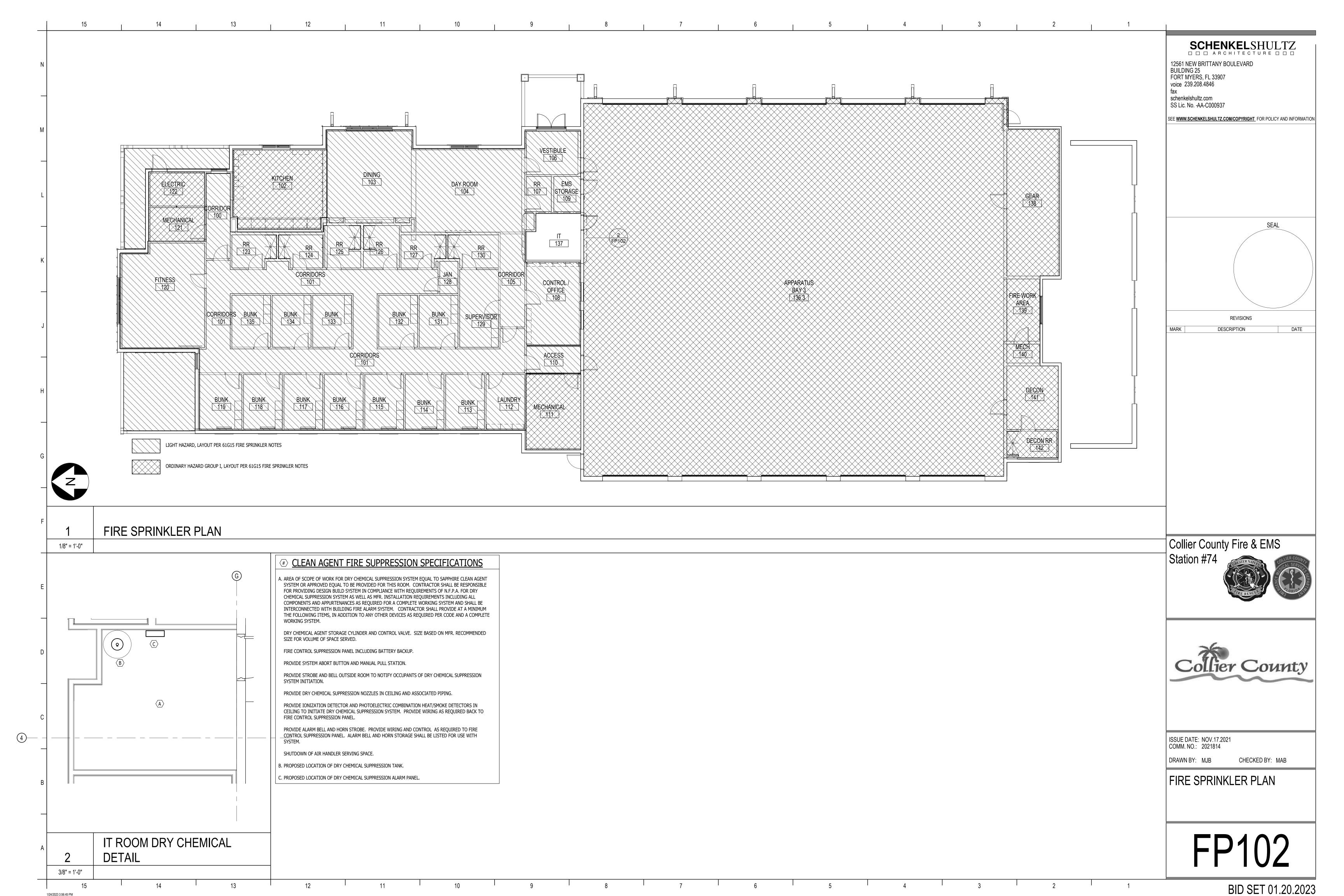
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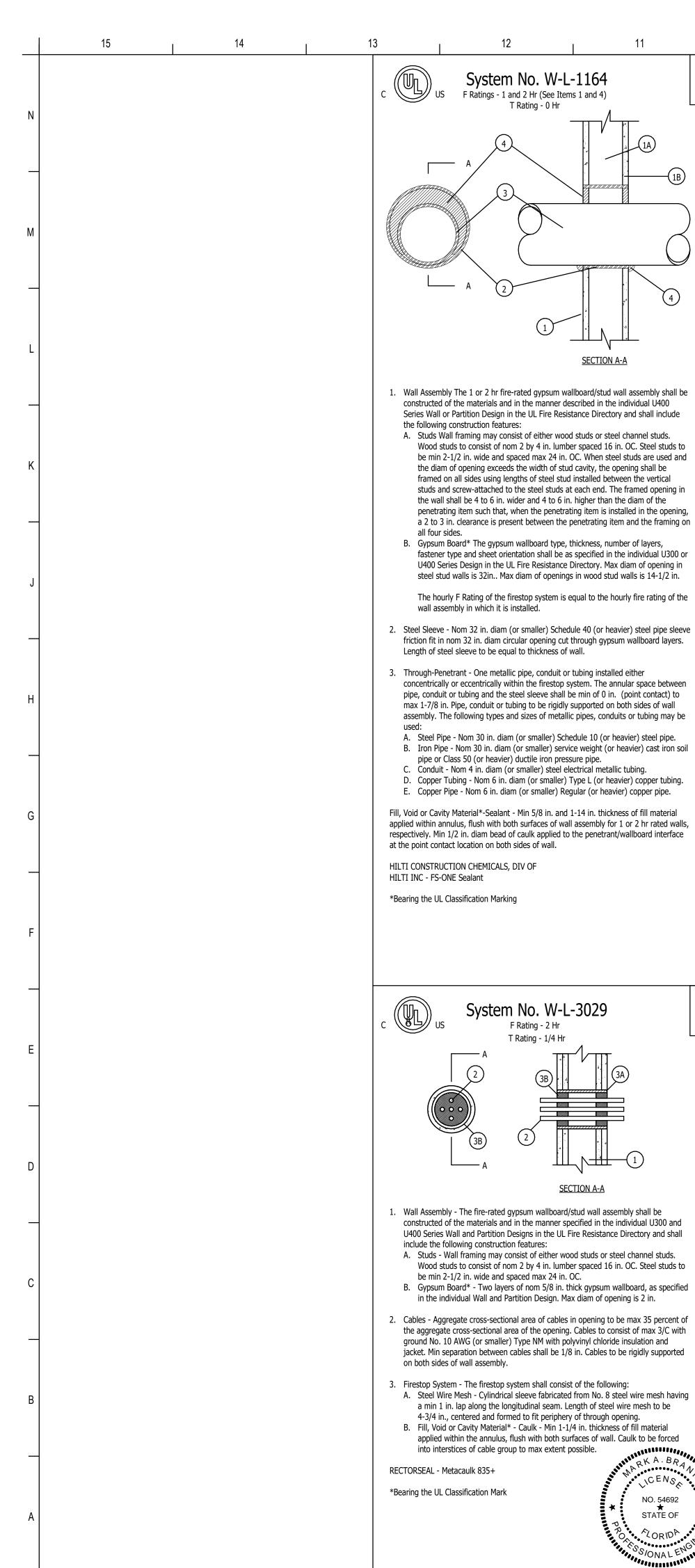
FIRE SPRINKLER GENERAL NOTES

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FP001







T Ratings - 0 & 1-1/2 Hr (See Item 1) SECTION A-A

System No. W-L-1164

F Ratings - 1 and 2 Hr (See Items 1 and 4)

T Rating - 0 Hr

System No. W-L-3029

T Rating - 1/4 Hr

SECTION A-A

. Wall Assembly — The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below.

System No. W-L-2084

F Ratings - 1 & 2 Hr (See Item 1)

The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. The hourly T Rating is 1-1/2 Hr when installed in 2 hr fire-rated wall, 0 hr when installed in 1 hr fire-rated wall. A. Studs — Wall framing may consist of either wood studs or steel channel studs.

Wood studs to consist of nom 2 by 4 in, lumber spaced 16 in, OC, Steel studs to

be min 2-1/2 in. wide and spaced max 24 in. OC. B. Gypsum Board* — Nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 8 in.

2. Through-Penetrants — One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 1/4 in. to max 1-1/4 in. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be

A. Polyvinyl Chloride (PVC) Pipe — Nom 6 in. diam (or smaller) Schedule 40 solidcore or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system

B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 6 in. diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 6 in. diam (or smaller)

waste or vent) piping system. 3. Metallic Sleeve — Nom 8 in. diam (or smaller) Schedule 40 (or thinner) steel pipe

Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain,

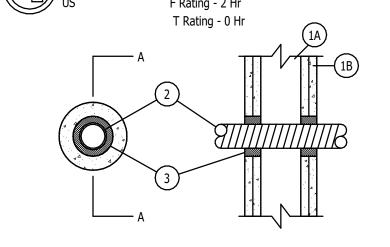
4. Metal Cover Plate — Min. 18 ga. steel with max I.D. 1/4 in. larger than O.D. of pipe. Min. O.D. of cover plate to be 2-1/2 in. larger than O.D. of pipe. Installed between collar and wall surfaces.

cast into wall assembly with joint compound and installed flush with wall surfaces

5. Firestop Device* — Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum 2 anchor hooks for 1-1/2 and 2 in. diam pipes, 3 anchor hooks for 3 and 4 in. diam pipes, and 4 anchor hooks for 6 in. diam pipes). The anchor hooks are to be secured to the surface of wall with 3/16 by 2-1/2 in. long toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. long drywall or laminate screws with min 3/4 in. steel washers may be used.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5"N, CP 643 63/2"N, CP 643 90/3"N, CP 643 110/4"N or CP 643 160/6"N Firestop Collar

*Bearing the UL Classification Mark



System No. W-L-3097

Wall Assembly - The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following constuction features:

SECTION A-A

A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. B. Gypsum Board* — Two layers of nom 5/8 in, thick gypsum board, as specified in

the individual Wall and Partition Design. Max diam of opening is 2 in.

Through Penetrating Product* - Max one through-penetrating product to be installed either concentrically or eccentrically within the opening. The annular space between through-penetrating product and periphery of opening is min 1/4 in. to max 3/4 in. Through-penetrating product to be rigidly supported on both sides of wall assembly. The following types of through-penetrating products may be used:

A. Max four copper conductors No. 2/0 AWG (or smaller) aluminum or steel Armored Cable# or Metal-Clad Cable+. AFC CABLE SYSTEMS INC

B. Two or more twisted copper conductors No. 6 AWG (or smaller) Power Limited Circuit Cable+ with or without a jacket under a metal armor.

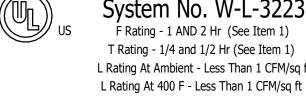
AFC CABLE SYSTEMS INC C. Two or more twisted copper conductors No. 10 AWG (or smaller) Power Limited Fire Alarm Cable+ with or without a jacket under a metal armor.

AFC CABLE SYSTEMS INC D. Two or more twisted copper conductors No. 12 AWG (or smaller) Non Power Limited Fire Alarm Cable+ with or without a jacket under a metal armor. AFC CABLE SYSTEMS INC

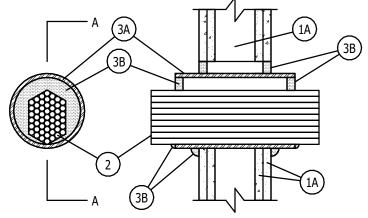
3. Fill, Void or Cavity Material* - Caulk — Min 1-1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.

RECTORSEAL - Metacaulk 835+

*Bearing the UL Classification Mark



F Rating - 1 AND 2 Hr (See Item 1) T Rating - 1/4 and 1/2 Hr (See Item 1) L Rating At Ambient - Less Than 1 CFM/sq ft L Rating At 400 F - Less Than 1 CFM/sq ft



Wall Assembly - The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance

Directory and shall include the following construction features: A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24

in. (610 mm) OC. B. Gypsum Board* - 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of wall opening is 5 in. (127 mm).

The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

The hourly T, FT and FTH Ratings are 1/4 hr and 1/2 hr for 1 and 2 hr rated assemblies, respectively.

2. Cables - Aggregate cross-sectional area of cables in opening to be max 55.6 percent of the cross-sectional area of the opening. Cables to be bundled together and rigidly supported on both sides of wall assembly. The annular space between cable bundle and edge of metallic sleeve (Item 3A) shall be min 0 in. (point contact) to max 1/8 in. (3.2 mm). The following types and sizes of cables may be used:

A. Max 4/C No. 12 AWG (or smaller) cable with PVC insulation and jacket. B. Max 1/C No. 350 MCM cable with XLPE insulation and jacket. C. Max No. 18 AWG RG6/U coaxial cable with PVC insulation and jacket.

E. Type RG59/U coaxial cables with polyethylene (PE) insulation and PVC jacket.

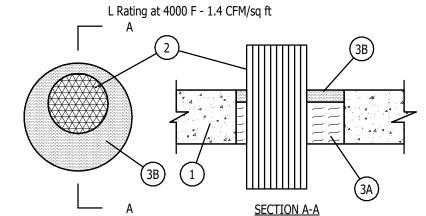
D. Max 62.5/125 micron, Type OFNR, fiber optic cables with PVC insulation and

Firestop System - The firestop system shall consist of the following: A. Metallic Sleeve - Nom 4 in. (102 mm) diam (or smaller) steel, iron, or EMT sleeve with 0.083 in. (2.1 mm) wall thickness (or thicker), fitted into wall opening with a max annular space of 1/2 in. (13 mm) between the edge of the wall opening. Length of sleeve to be equal to thickness of wall plus 2 in. (51 mm) such that, when installed, the ends of the leeve project 1 in. (25 mm) beyond each surface

B. Fill, Void or Cavity Material* - Sealant - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, between sleeve and wall opening, flush with wall surfaces. Min 1/2 in. (13 mm) thickness of fill material applied within the annulus between cable bundle and sleeve, flush with ends of sleeve. Fill material to be forced into interstices of cable group to seal any voids on both surfaces of wall. A min 3/8 in. (10 mm) bead of the sealant shall be applied at the pointcontact locations of the sleeve with wall and cable bundle with sleeve on both sides of the wall assembly.



FH Rating —2 Hr FTH Rating — 0 Hr L Rating at Ambient - Less than 1 CFM/sp ft



Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or min 5 in. (127 mm) thick reinforced lightweight or normal weight wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow-core Precast Concrete Units*. Max diam of the opening is 6 in. (152 mm).

See Concrete Block (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. Cables - Aggregate cross-sectional area of cables in opening to be max 25 percent of the cross-sectional area of the opening. Cables installed individually or in bundles having a max bundle diam of 3 in. (76 mm). The annular space between cable bundle and the periphery of the opening shall be min 3/8 in. (10 mm) to max 2-5/8 in. (67 mm). Cables to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of cables may be used:

A. Max 100 pair No. 24 AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) jacketing and insulation.

B. Max 3/C No. 2/0 AWG (or smaller) aluminum conductor service entrance cable with PVC insulation and jacket.

C. Max 3/C with ground No. 12 AWG (or smaller) nonmetallic sheathed (Romex)

cable with copper conductors, PVC insulation and jacket. D. Max 1/C No. 350 kcmil (or smaller) copper conductor power cable with XLPE

(cross-linked polyethylene) or PVC insulation and XLPE or PVC jacket. E. Max RG59/U (or smaller) copper conductor coaxial cable with fluorinated

ethylene insulation and jacketing. F. Max 62.5/125 fiber optic cable with PVC insulation and jacketing.

G. Max RG/6 No. 18 AWG Type copper conductor CATV coaxial cable with PVC

insulation and jacket. H. Max 7/C No. 12 AWG (or smaller) copper conductor cable with XLPE or PVC insulation and jacket.

2A. Through Penetrating Product* - (Not Shown) As an alternate to Item 2, max 3/C No. 2/0 AWG (or smaller) copper conductors aluminum or steel Metal Clad Cable+. One or more cables to be installed either concentrically or eccentrically within the firestop system. Aggregate cross-sectional area of cables in opening to be max 25 percent of the aggregate cross-sectional area of the opening. Cables installed individually or in bundles having a max bundle diam of 3 in. (76 mm). The annular space between the cable bundle and the periphery of the opening shall be a min 3/8 in. (10 mm) to a max 2-5/8 in. (67 mm). Cables to be rigidly

Firestop System - The firestop system shall consist of the following:

AFC CABLE SYSTEMS INC

ALFLEX CORP

supported on both sides of floor or wall assembly.

Packing Material - Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall and hollow-core precast concrete units as required to accommodate the required thickness of fill material.

Fill, Void or Cavity Material* - Sealant - Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall or hollow-core precast concrete units. Additional sealant shall be forced into interstices of cable bundle to max extent possible.

RECTORSEAL - FS900+ Sealant, Metacaulk MC 150+, Biostop BF 150+ +Bearing the UL Listing Mark

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



T Rating -- 0 Hr L Rating At Ambient -- Less Than 1 CFM/sq ft L Rating At 400 F -- 4 CFM/sq ft W Rating -- Class I (See Item 4)

SECTION A-A

. Floor or Wall Assembly -- Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks *. Max diam of opening is 12 in. See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

Through Penetrants -- One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space shall be 0 in. (point contact) to max 1-1/4 in. The following types and sizes of metallic pipes, conduits or tubing may be used: A. Steel Pipe -- Nom 10 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe -- Nom 10 in. diam (or smaller) cast or ductile iron pipe. C. Conduit -- Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel

D. Copper Tubing -- Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing. E. Copper Pipe -- Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.

3. Packing Material -- Min 3 in. thickness of min 4 pcf mineral wool batt insulation for nom 4 in. diam (and smaller) pipes, conduits or tubings and a min 4 in. thickness of min 4 pcf mineral wool batt insulation for pipe greater than nom 4 in. diam, firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

. Fill, Void or Cavity Material* -- Sealant -- Min 1/2 in. thickness of fill material applied within the annulus, flush with the top surface of floor or both surfaces of wall. At the point of contact location between pipe and concrete, a min 1/2 in. diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall. W Rating applies only when CP601S or CP604 sealant is

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP601S, CP604, CP606 or FS-

*Bearing the UL Classification Mark

REVISIONS

DATE

DESCRIPTION

SCHENKELSHULTZ

□ □ □ ARCHITECTURE □ □ □

EE <u>www.schenkelshultz.com/copyright</u> for policy and information

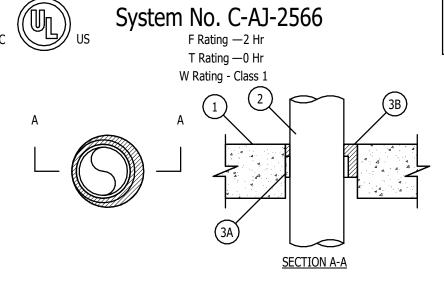
12561 NEW BRITTANY BOULEVARD

BUILDING 25

voice 239.208.4846

schenkelshultz.com SS Lic. No. -AA-C000937

FORT MYERS, FL 33907



1. 1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants — One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Annular space within the firestop system is dependent upon the max diam and type of penetrant used as tabulated in Item 3A. Pipe to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes may be used: A. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule

40 solid or cellular core PVC for use in closed (process or supply) or vented

(drain, waste or vent) piping systems. B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) SDR13.5 CPVC for use in closed (process or supply) piping systems.

C. Rigid Nonmetallic Conduit+ — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA 70). D. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or

smaller) Schedule 40 solid or cellular core ABS for use in closed (process or supply) or vented (drain, waste or vent) piping systems. . Flame Retardant Polypropylene (FRPP) Pipe — Nom 4 in. (102 mm) diam (or smaller)

Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.

4. Firestop System — The firestop system shall consist of the following: A. Fill, Void or Cavity Material* - Wrap Strip — One layer of intumescent wrap strip is continuously wrapped around the pipe with ends butted and held in place with integrated tape. Wrap strip installed recessed from top surface of floor or both wall surfaces to accommodate fill material. Size of wrap strip for a given size penetrant is shown in the table below.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP648-S-1.5" US, CP648 S-2" US, CP648-S-3" US or CP648-S-4" US Wrap Strip

*Bearing the UL Classification Mark

Collier County Fire & EMS



ISSUE DATE: NOV.17.2021 COMM. NO.: 2021814

DRAWN BY: JWB

CHECKED BY: JWB

M/E/P/FA/FP PENETRATION **DETAILS**

BID SET 01.20.2023

THIS ITEM HAS BEEN ELECTRONICALLY

SIGNED AND SEALED BY MARK A. BRANT, PE.

ON THE DATE INDICATED WITHIN THE SIGNATURE TO THE RIGHT USING A 3RD

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of the wall.

RECTORSEAL - FlameSafe® FS1900, Metacaulk 1000, Metacaulk 350i, Biostop 350i or Biostop 500+