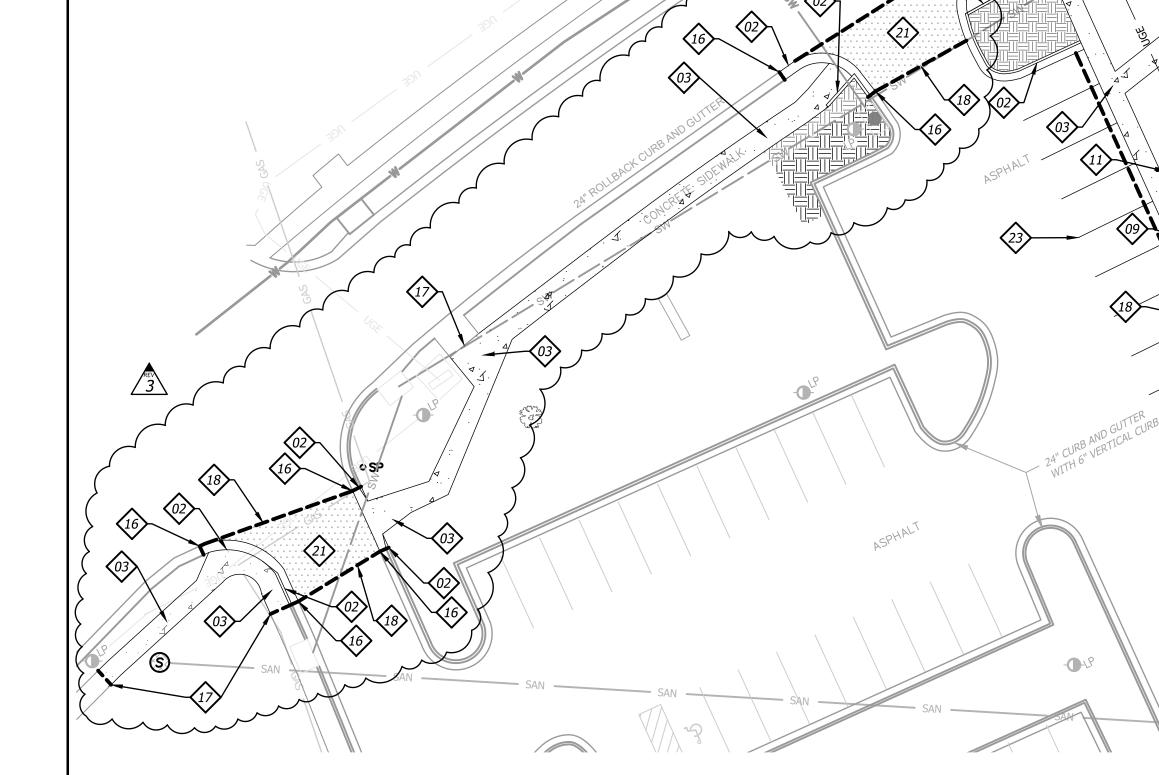
DEMOLITION NOTES

- 01 REMOVE & DISPOSE OF EXISTING CORRIDOR.
- 02 REMOVE & DISPOSE OF EXISTING CURB.
- 03 REMOVE & DISPOSE OF EXISTING CONCRETE SIDEWALK.
- 04 REMOVE & DISPOSE OF EXISTING RETAINING WALL.
- 05 REMOVE & DISPOSE OF EXISTING HANDRAIL.
- 06 REMOVE & DISPOSE OF EXISTING STORM PIPE.
- 07 REMOVE & DISPOSE OF EXISTING SANITARY PIPE.
- 08 REMOVE & RELOCATE EXISTING UNDERGROUND CABLE TV SERVICE LINE.
- REMOVE & DISPOSE OF EXISTING UNDERGROUND ELECTRIC 09 SERVICE LINE.
- 10 REMOVE & DISPOSE OF EXISTING ELECTRIC BOX.
- 11 SALVAGE AND REUSE EXISTING LIGHT POLE AND FIXTURE.
- *REMOVE EXISTING ELECTRIC BOXES, AC UNITS & CONCRETE PAD.*
- 13 REMOVE AND DISPOSE OF EXISTING TREES; SEE TREE REMOVAL PLAN L0.1-L0.2
- 15 REMOVE & DISPOSE OF EXISTING TRENCH DRAIN.
- 16 SAWCUT EXISTING CURB TO CLEAN EDGE.
- 17 SAWCUT EXISTING SIDEWALK TO CLEAN EDGE.

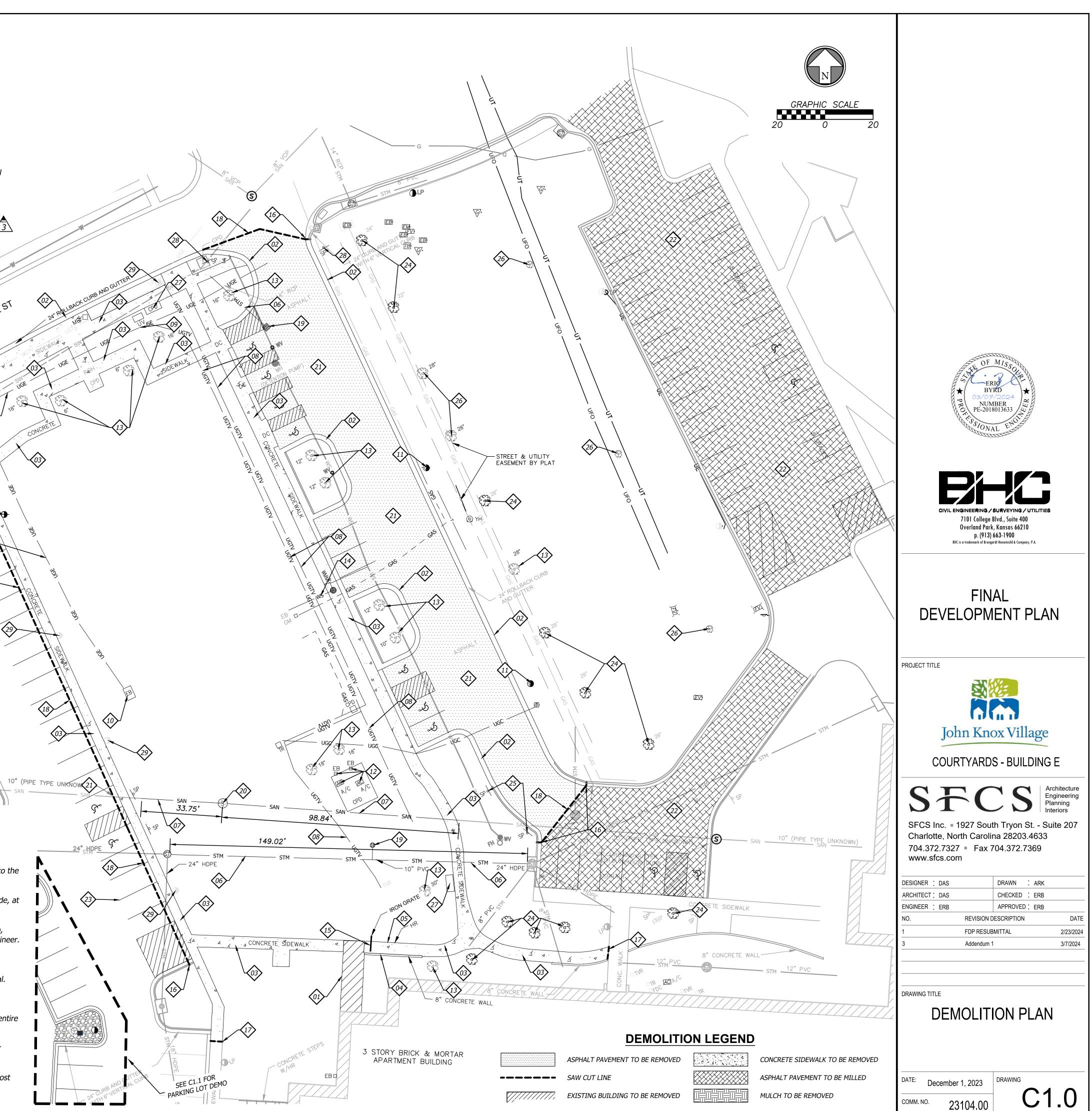
- *19 REMOVE & DISPOSE OF EXISTING STORM STRUCTURE.*
- 20 REMOVE & DISPOSE OF EXISTING SANITARY MANHOLE.
- 21 REMOVE & DISPOSE OF EXISTING ASPHALT PAVEMENT.
- 22 MILL TOP 2" OF ASPHALT PAVEMENT.
- 23 REMOVE EXISTING PARKING STALL MARKINGS FROM ENTIRE PARKING BAY NOTED.
- 24 EXISTING TREE; PROTECT IN PLACE. SEE TREE PROTECTION PLAN L0.1 - L0.2
- 25 SALVAGE & REUSE EXISTING FIRE LANE SIGN.
- . 26 SEE L0.2A TREE PROTECTION & REMOVAL ADD ALT 01
- 27 SALVAGE & REUSE EXISTING BENCH.
- 28 PROTECT IN PLACE EXISTING STOP SIGN.
- 29 PROTECT IN PLACE EXISTING LIGHT POLE.
- 14 REMOVE EXISTING WATER SERVICE LINE.

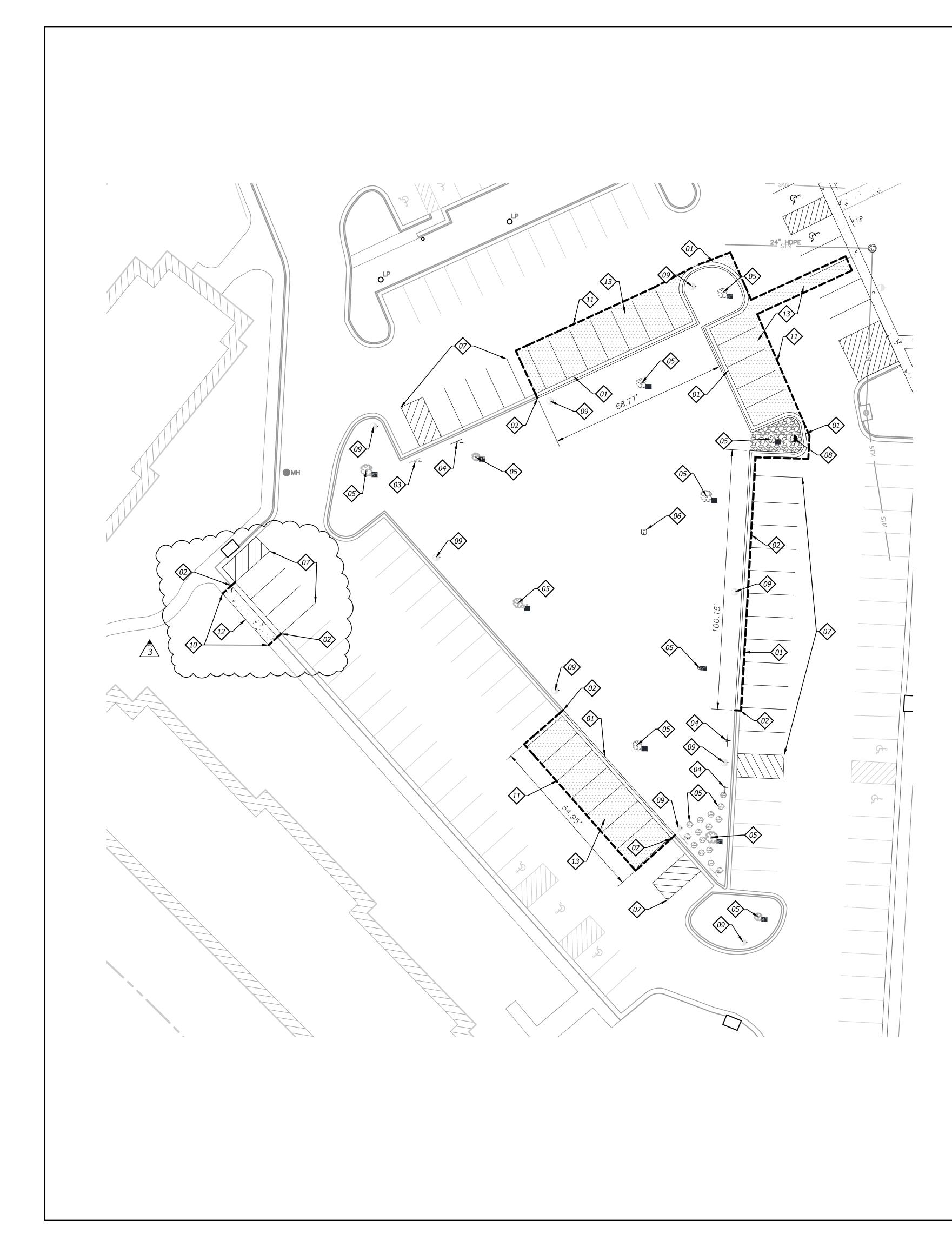
- 18 SAWCUT EXISTING PAVEMENT TO CLEAN EDGE.



GENERAL NOTES

- 1. Contractor shall verify the location, size, material and depth of all utilities prior to any excavation or construction activity.
- 2. All materials shall be removed and disposed of off-site. It is the contractors responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.
- 3. The Contractor shall ensure that any structures to remain which are damaged during demolition operations shall be repaired to meet current code, at no additional cost to the owner.
- 4. The Contractor shall remove any and all existing debris which is encountered from the existing site. This shall include, but shall not be limited to, footings, concrete slabs, conduits, granular subgrade, utility services, and/or unsuitable structural fill material as determined by the owner's engineer. The cost for these removals shall be considered incidental to the project. Said debris shall become property of the contractor and it shall be the responsibility of the contractor to dispose of properly off-site.
- 5. It shall be the Contractor's responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.
- 6. The Contractor shall be responsible for obtaining and payment of any permits for demolition that pertain to this project.
- 7. All protection fencing shall be installed prior to demolition/construction activity. The Contractor shall provide a 6-foot security fence around the entire job site with locked gated access points, if required by the owner or the city.
- 8. All existing utilities removed during construction shall have their trenches backfilled with structural fill and be compacted to the requirements for structural fill.
- 9. All removals required to properly perform the work (whether shown on the plans or not) shall be performed by the Contractor at no additional cost to the owner.



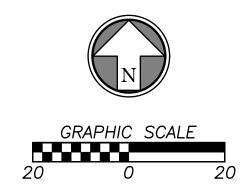


GENERAL NOTES

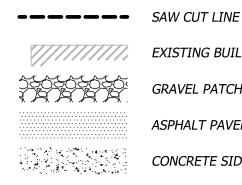
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- 9. All removals required to properly perform the work (whether shown on the plans or not) shall be performed by the Contractor at no additional cost to the owner.

DEMOLITION NOTES

- 01 REMOVE & DISPOSE OF EXISTING CURB.
- 02 SAWCUT EXISTING CURB TO CLEAN EDGE.
- 03 PROTECT IN PLACE EXISTING SIGN.
- 04 SALVAGE & REUSE EXISTING SIGN.
- 05 SEE L0.2B TREE PROTECTION & REMOVAL ADD ALT 02.
- 07 REMOVE EXISTING PARKING STALL MARKINGS.
- 08 SALVAGE AND REUSE EXISTING LIGHT POLE AND FIXTURE.
- 09 EXISTING LIGHT POLE AND FIXTURE; PROTECT IN PLACE. 10 SAWCUT EXISTING SIDEWALK TO CLEAN EDGE.
- 11 SAWCUT EXISTING PAVEMENT TO CLEAN EDGE.
- 12 REMOVE & DISPOSE OF EXISTING CONCRETE SIDEWALK.
- 13 REMOVE & DISPOSE OF EXISTING ASPHALT PAVEMENT.



A STATE



06 SALVAGE AND REUSE EXISTING TELEPHONE BOX. NEW LOCATION TO BE COORDINATED WITH OWNER.



DEMOLITION LEGEND

EXISTING BUILDING GRAVEL PATCH TO BE DISPOSED OF ASPHALT PAVEMENT TO BE REMOVED CONCRETE SIDEWALK TO BE REMOVED







FINAL DEVELOPMENT PLAN

PROJECT TITLE



DESIGNER : DAS ARCHITECT : DAS ENGINEER 📜 ERB

DRAWN : ARK CHECKED : ERB APPROVED : ERB REVISION DESCRIPTION FDP RESUBMITTAL Addendum 1

DATE 2/23/2024 3/7/2024

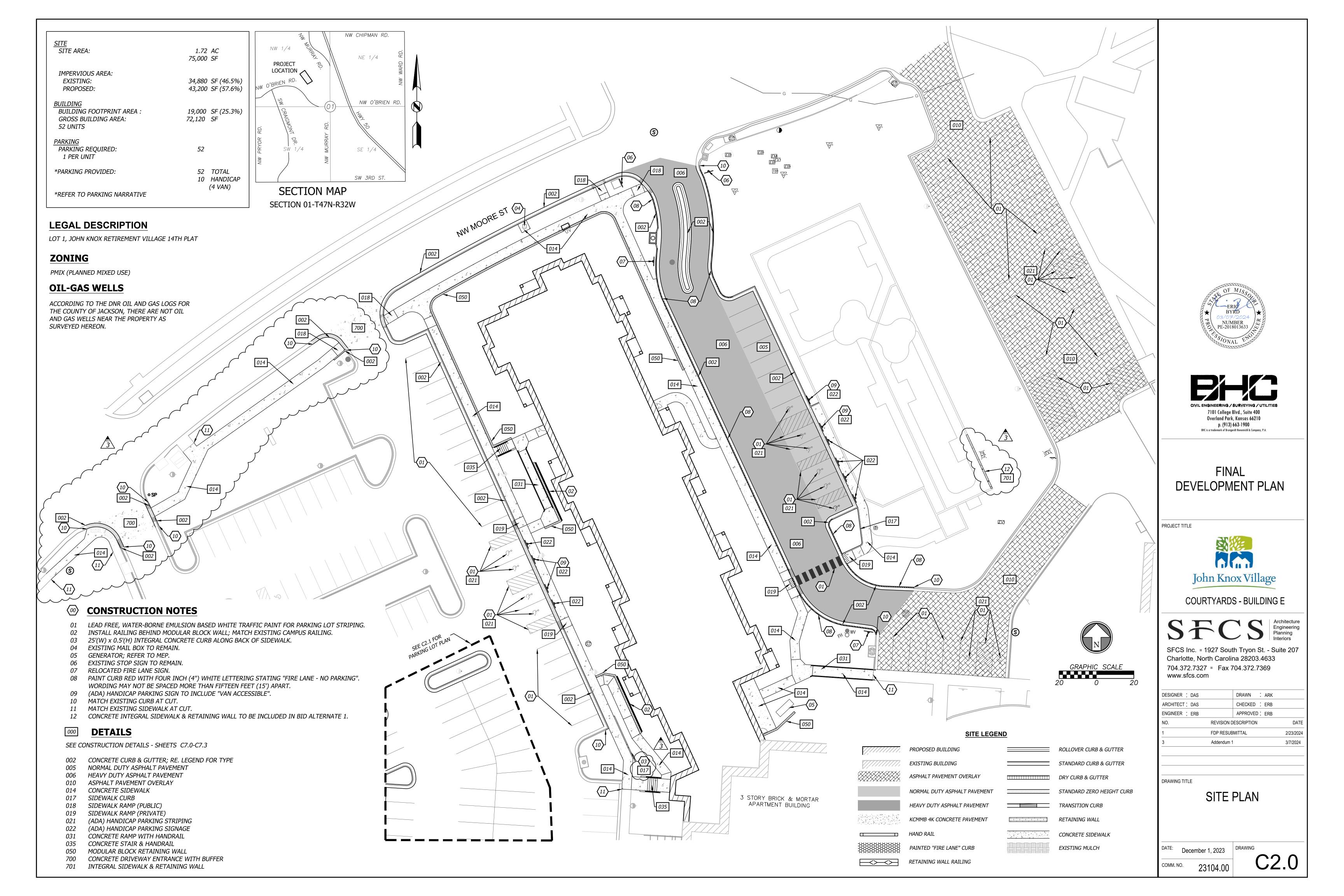
DRAWING TITLE PARKING LOT DEMOLITION PLAN

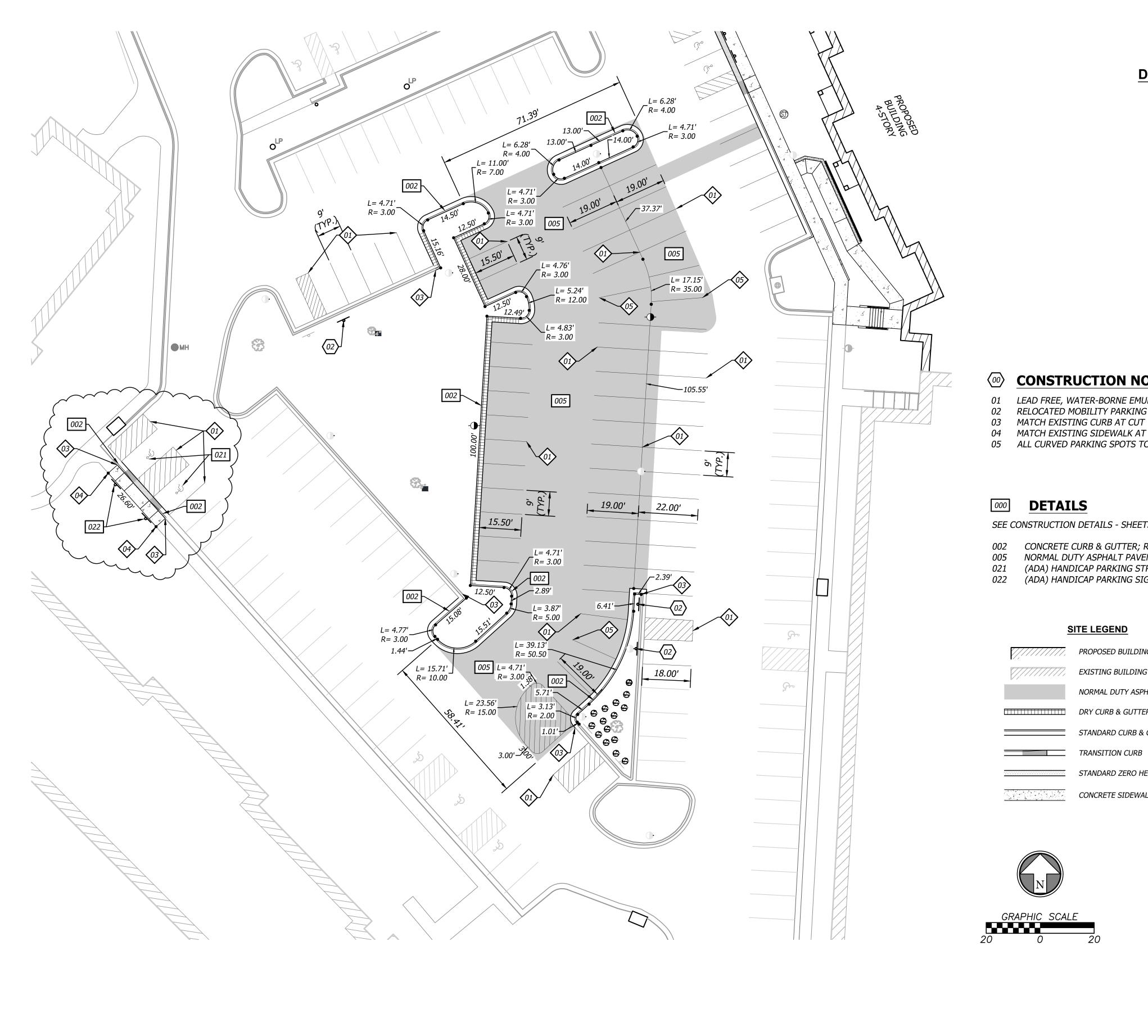
DRAWING

C1.1

DATE: December 1, 2023

23104.00 COMM. NO.

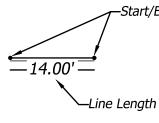


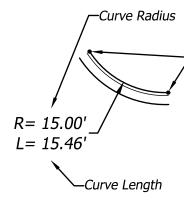


DIMENSION NOTES

- 1. ALL DIMENSIONS ARE TO/ALONG BACK OF CURB UNLESS OTHERWISE NOTED
- 2. ALL DIMENSIONS ARE TO BOTTOM OF WALL UNLESS OTHERWISE NOTED

DIMENSION LEGEND





CONSTRUCTION NOTES

- LEAD FREE, WATER-BORNE EMULSION BASED WHITE TRAFFIC PAINT FOR PARKING LOT STRIPING
- RELOCATED MOBILITY PARKING SIGN
- MATCH EXISTING SIDEWALK AT CUT
- ALL CURVED PARKING SPOTS TO BE A MINIMUM WIDTH OF 9' AND MINIMUM LENGTH OF 19'

SEE CONSTRUCTION DETAILS - SHEETS C7.0-C7.3

002	
002	CONCRETE CURB & GUTTER; RE. LEGEND FOR TYP
005	NORMAL DUTY ASPHALT PAVEMENT
021	(ADA) HANDICAP PARKING STRIPING
022	(ADA) HANDICAD DADKING SIGNAGE

022 (ADA) HANDICAP PARKING SIGNAGE

SITE LEGEND

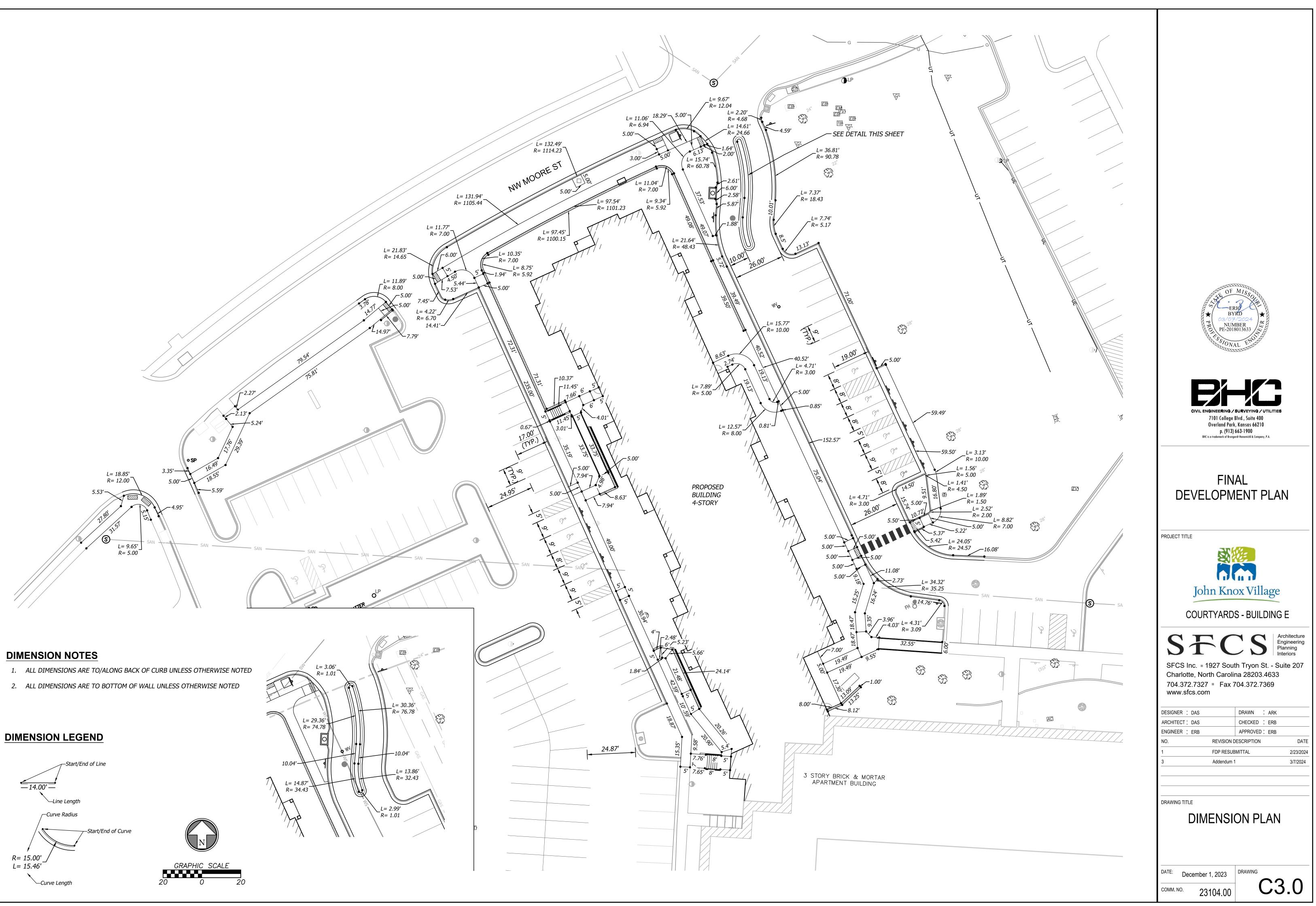
PROPOSED BUILDING
EXISTING BUILDING
NORMAL DUTY ASPHALT PAVEMENT
DRY CURB & GUTTER
STANDARD CURB & GUTTER
TRANSITION CURB
STANDARD ZERO HEIGHT CURB
CONCRETE SIDEWALK

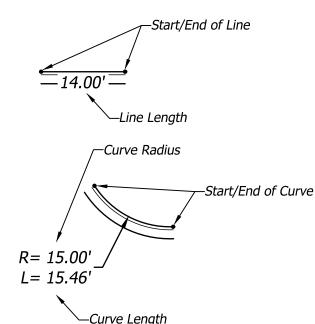
-Start/End of Line

-Start/End of Curve

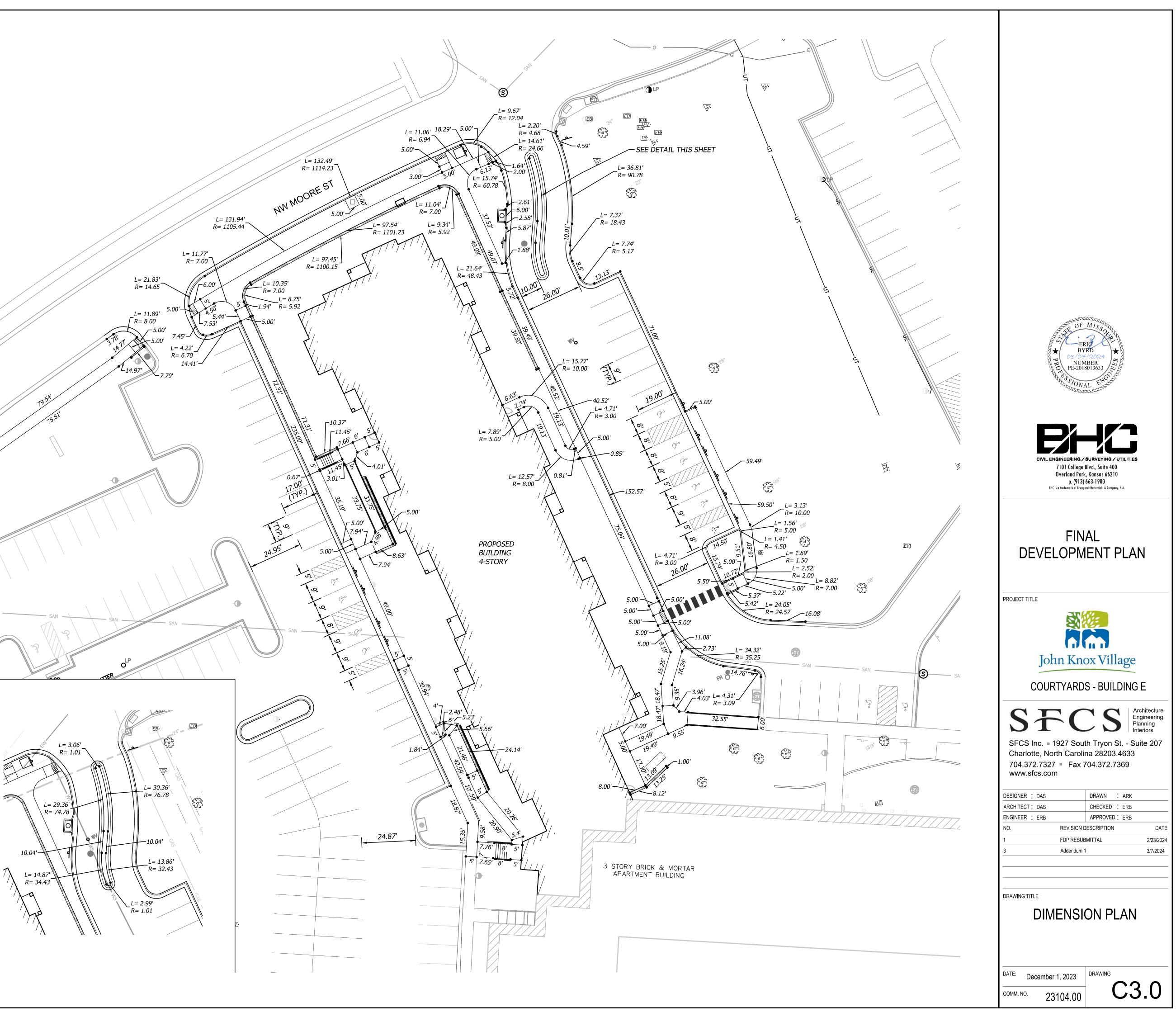
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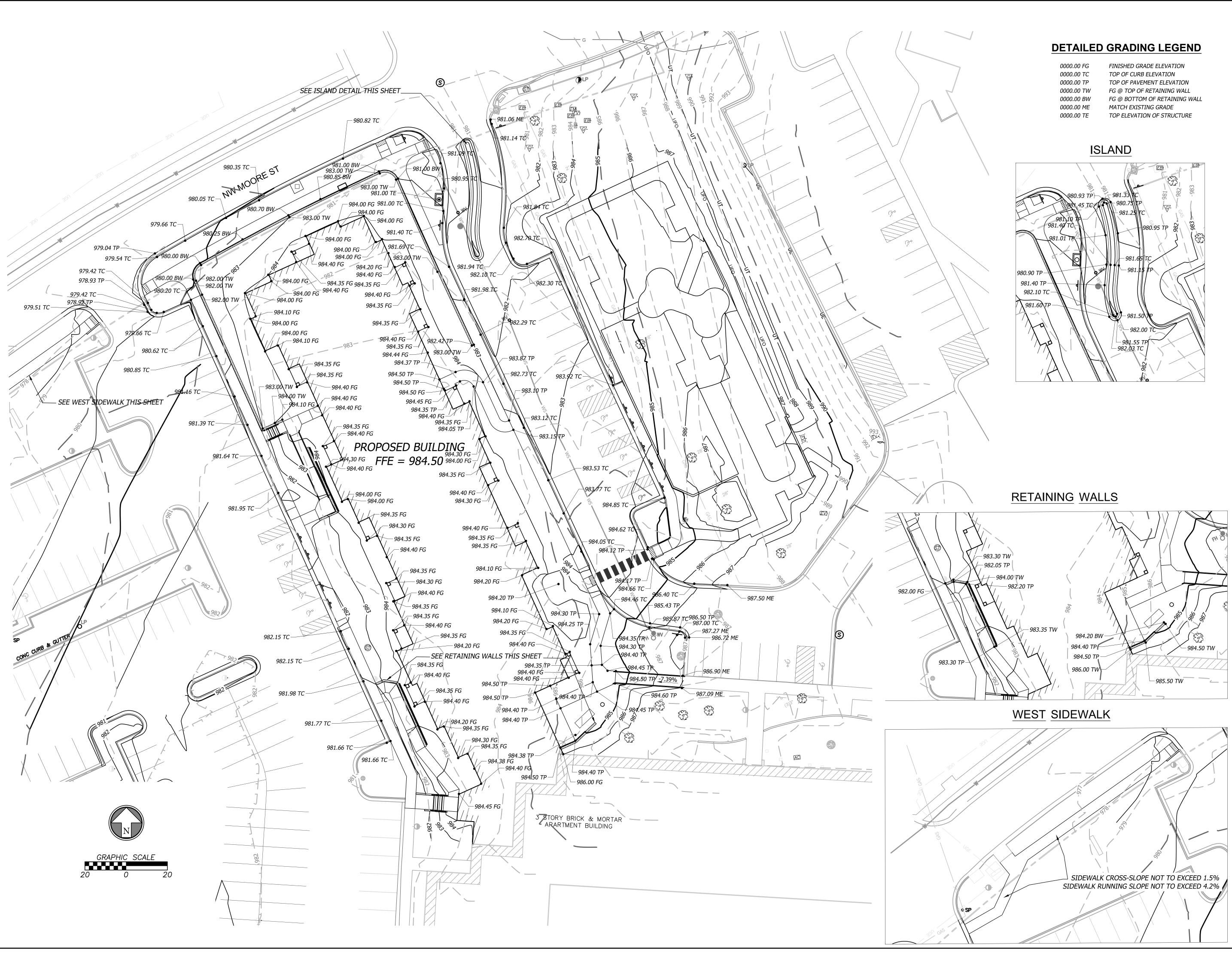


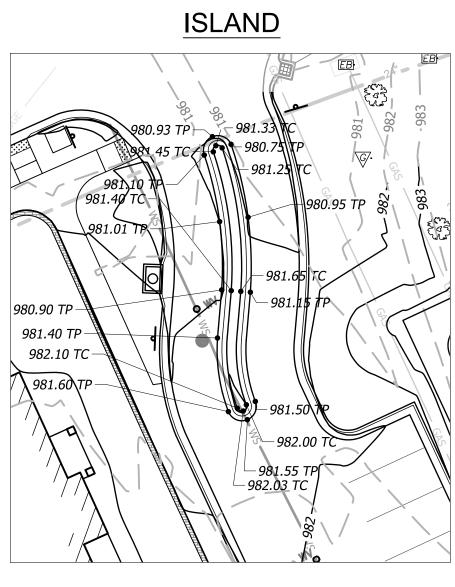








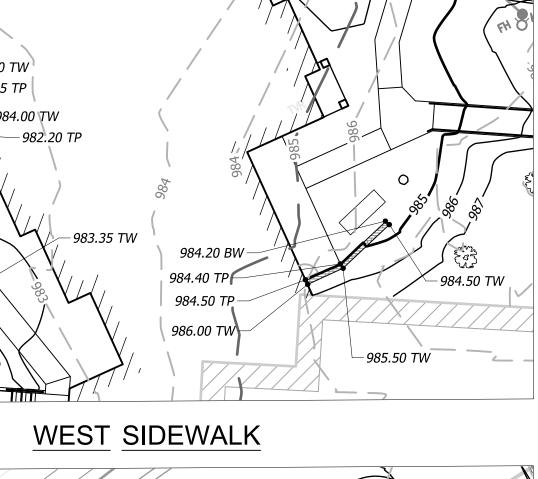




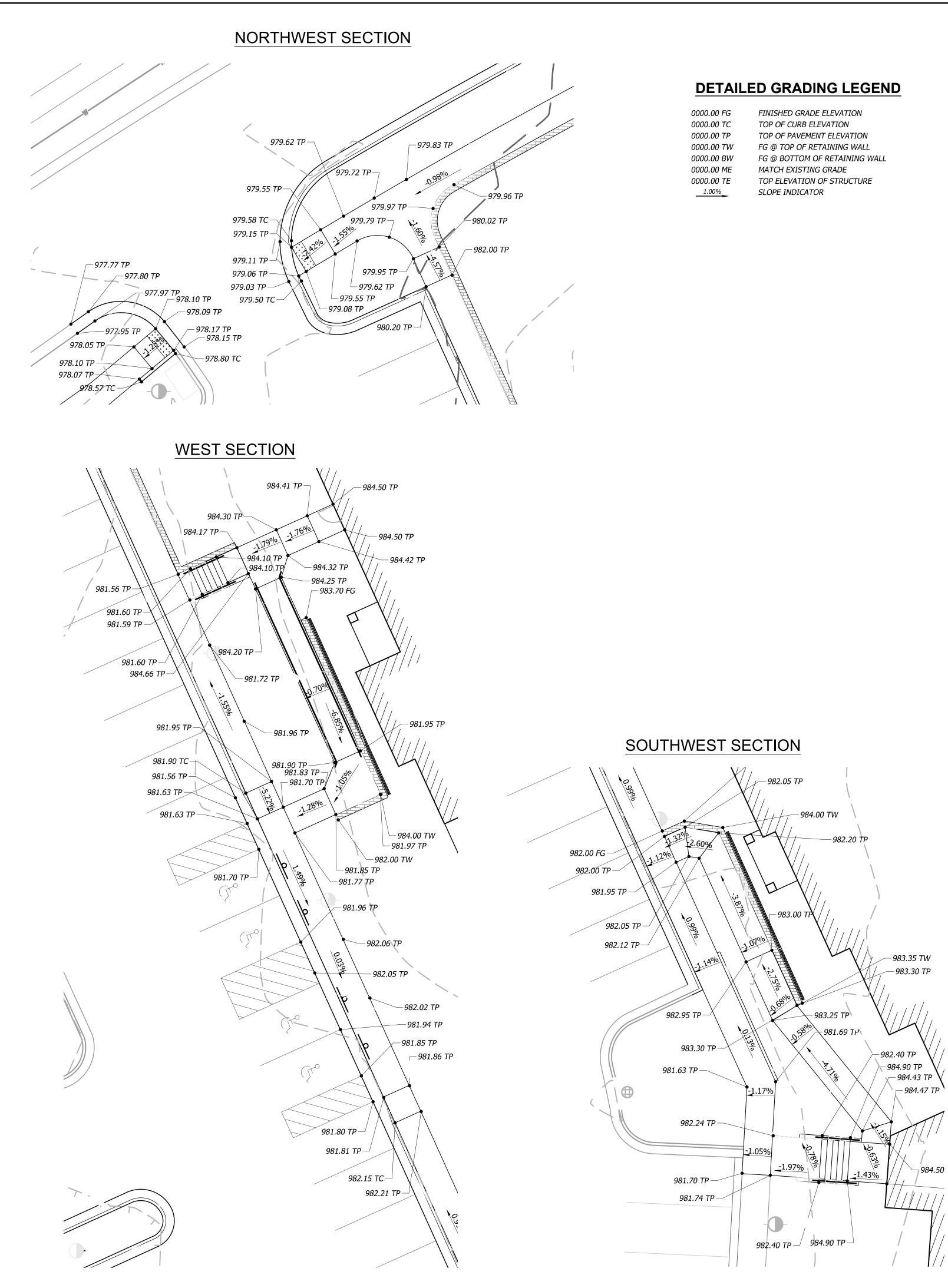


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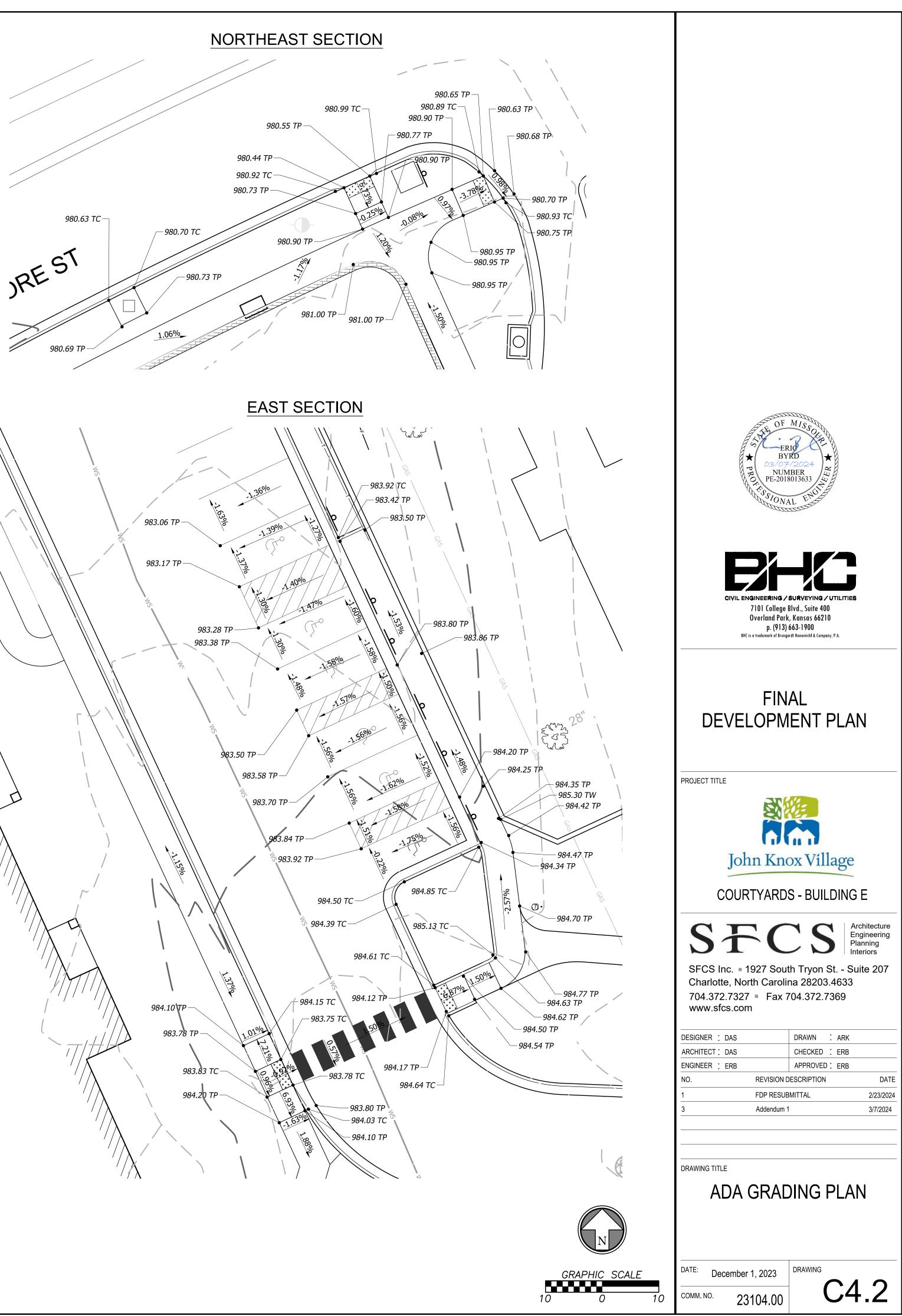
FINAL DEVELOPMENT PLAN

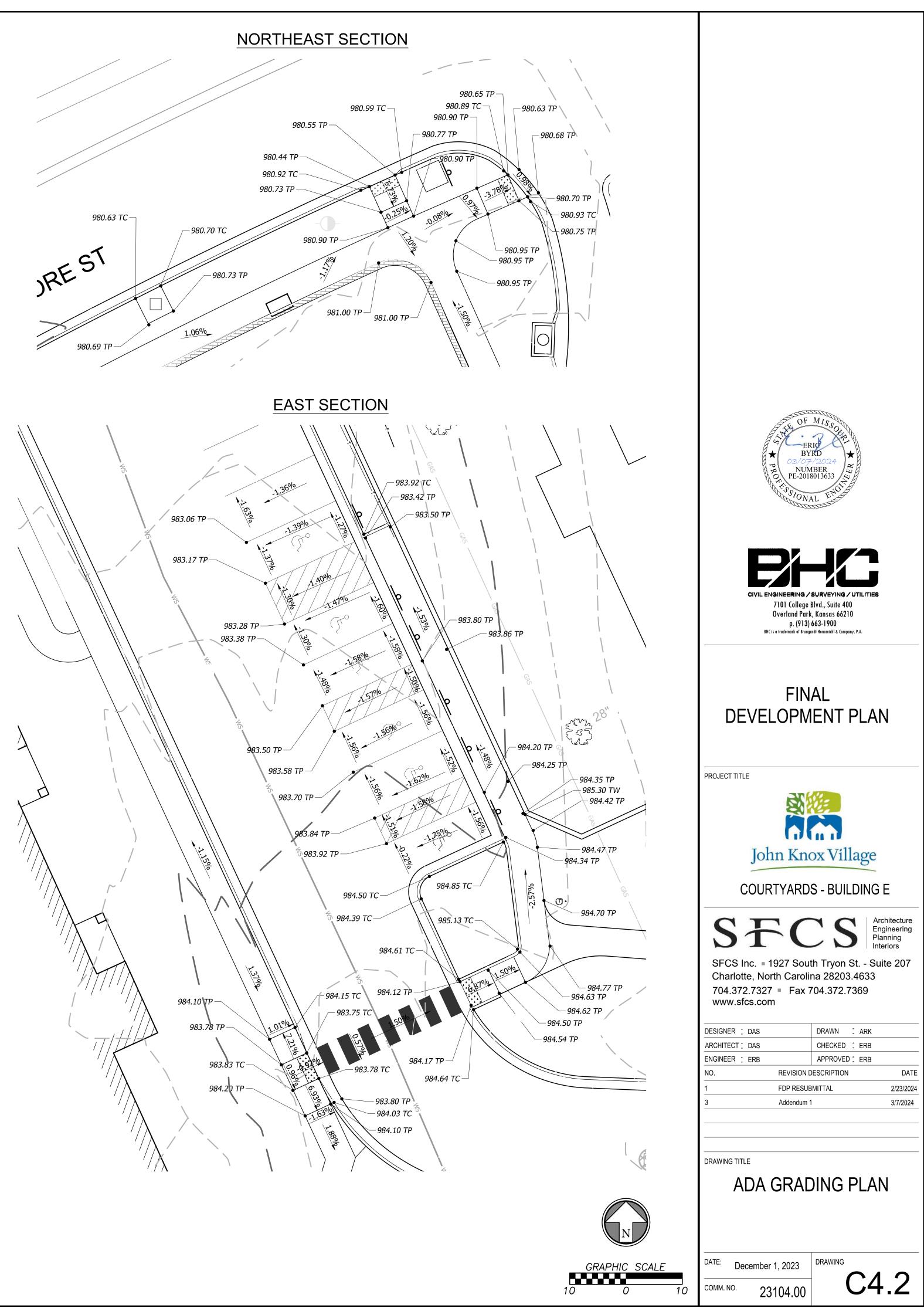






0000.00 FG	FINISHED GRADE ELEVATION
0000.00 TC	TOP OF CURB ELEVATION
0000.00 TP	TOP OF PAVEMENT ELEVATION
0000.00 TW	FG @ TOP OF RETAINING WALL
0000.00 BW	FG @ BOTTOM OF RETAINING WALL
0000.00 ME	MATCH EXISTING GRADE
0000.00 TE	TOP ELEVATION OF STRUCTURE
1.00%	SLOPE INDICATOR





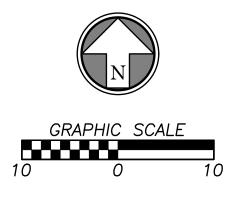
DOGPARK SECTION



DETAILED GRADING LEGEND

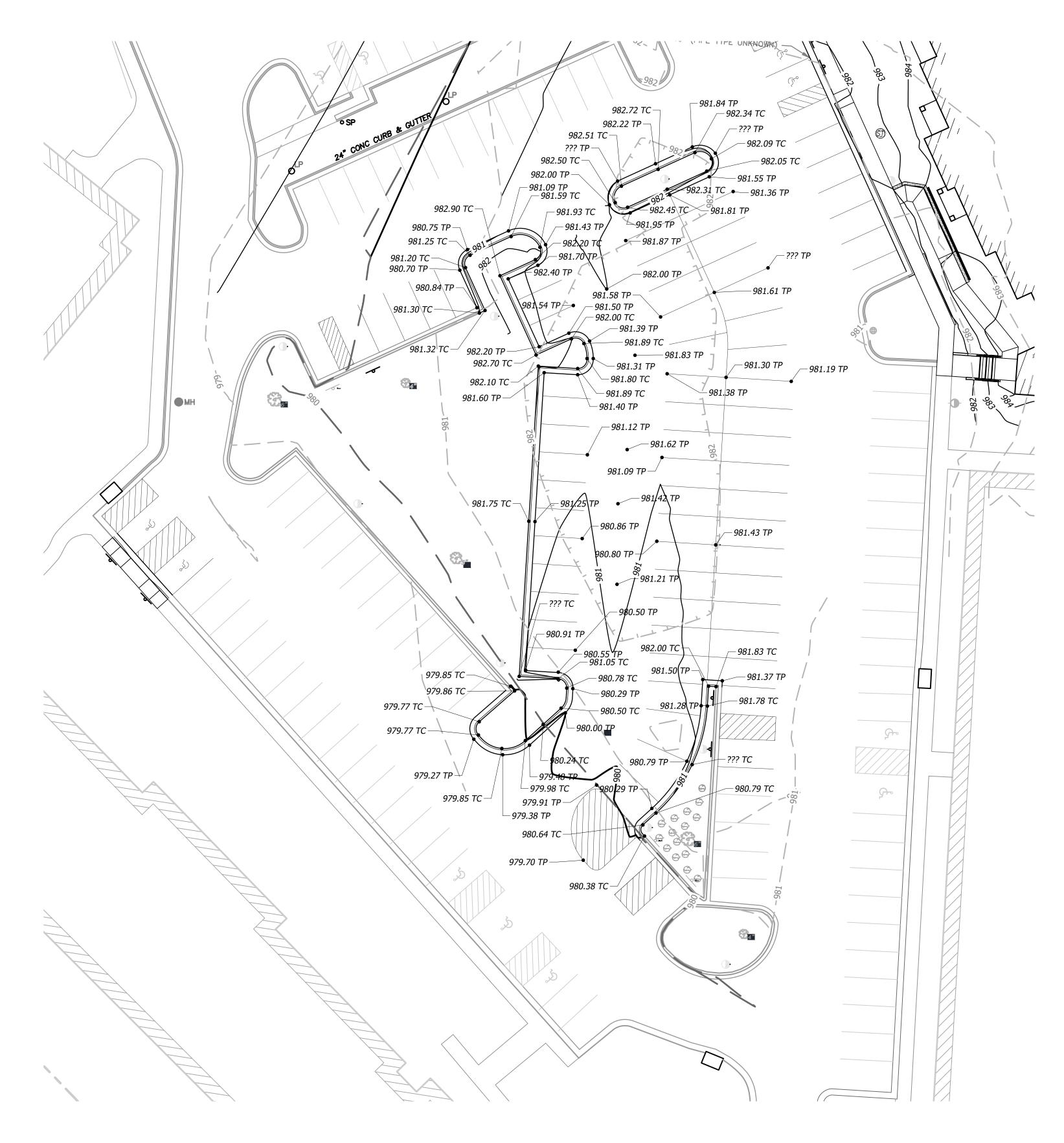
0000.00 FG
0000.00 TC
0000.00 TP
0000.00 TW
0000.00 BW
0000.00 ME
0000.00 TE
1.00%

FINISHED GRADE ELEVATION TOP OF CURB ELEVATION TOP OF PAVEMENT ELEVATION FG @ TOP OF RETAINING WALL FG @ BOTTOM OF RETAINING WALL MATCH EXISTING GRADE TOP ELEVATION OF STRUCTURE SLOPE INDICATOR





BID ALTERNATE 1

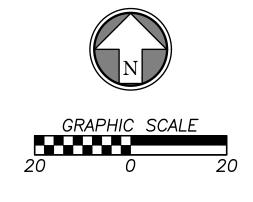


SOUTHWEST PARKING LOT

DETAILED GRADING LEGEND

0000.00 FG 0000.00 TC 0000.00 TP 0000.00 TW 0000.00 BW 0000.00 ME 0000.00 TE <u>1.00%</u>

FINISHED GRADE ELEVATION TOP OF CURB ELEVATION TOP OF PAVEMENT ELEVATION FG @ TOP OF RETAINING WALL FG @ BOTTOM OF RETAINING WALL MATCH EXISTING GRADE TOP ELEVATION OF STRUCTURE SLOPE INDICATOR



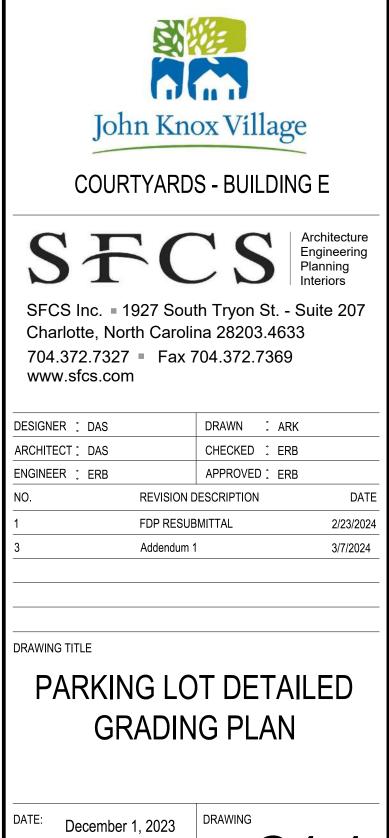






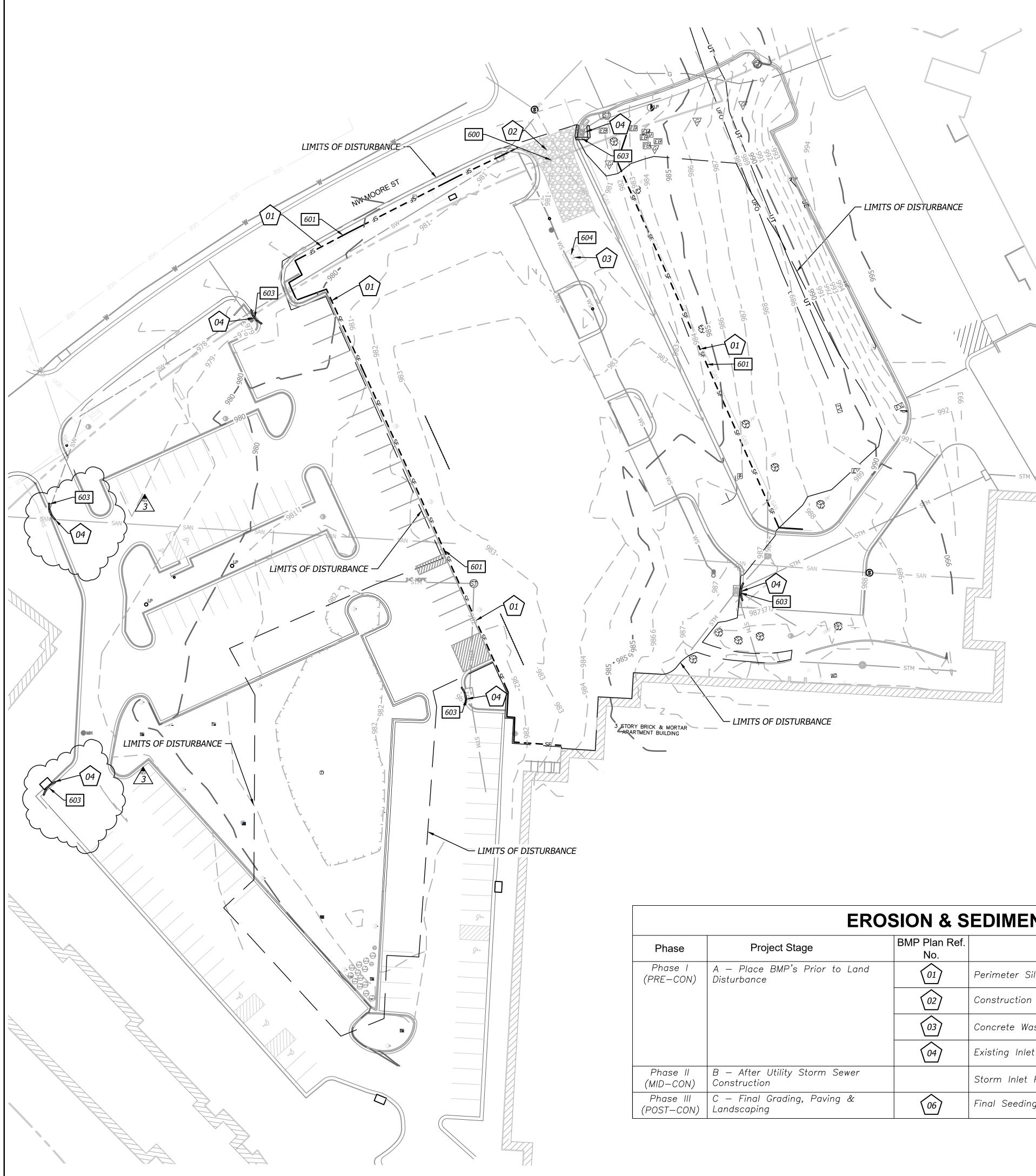
FINAL DEVELOPMENT PLAN

PROJECT TITLE



C4.4

COMM. NO. 23104.00

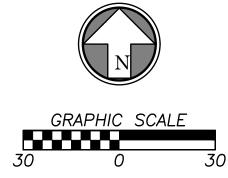


EROSION AND SEDIMENT CONTROL GENERAL NOTES

- 1. Prior to Land Disturbance activities, the contractor shall: • Delineate the outer limits of any natural stream corridor designated with construction fencing.
 - designated on the approved erosion and sediment control plan. Land disturbance work shall not proceed until there is a satisfactory inspection.
 - conformance with the erosion and sediment control plan.
- ceased for more than 14 days.
 - o During active construction phases at least once per week o During periods of inactivity - at least once per 14 days
 - available for review by the regulatory authority. review by the regulatory authority.
- the entire disturbed area.
- intended to be left undisturbed, a storm sewer, or an on-site drainage channel.
- contractor shall install additional or alternate measures that provide effective control.
- area where waste concrete can solidify in place.
- and immediate actions taken to contain them.
- installation.
- installed. Entire length may be installed at the contractor's option to aid in stabilizing slopes.
- inspections, provide the City of Lee's Summit with reports and documentation.

EROSION CONTROL LEGEND

	DISTURBED AREA (1.73 AC)
— — — SF —	SILT/SEDIMENT FENCE
	INLET PROTECTION FILTER BAGS
	CONSTRUCTION ENTRANCE
	CONCRETE CLEANOUT



EROSION & SEDIMENT CONTROL STAGING CHART

Phase	Project Stage	BMP Plan Ref. No.	BMP Description	Remove After Stage:	Notes:
Phase I (PRE–CON)	A — Place BMP's Prior to Land Disturbance	01	Perimeter Silt Fence	С	Place as shown on plan
		02	Construction Entrance & Staging Area	С	Place as shown on plan
		03	Concrete Wash-Out	С	Place as shown on plan
		04	Existing Inlet Protection	С	Place as shown on plan
Phase II (MID-CON)	B – After Utility Storm Sewer Construction		Storm Inlet Protection	С	Place as shown on plan
Phase III (POST–CON)	C — Final Grading, Paving & Landscaping	06	Final Seeding, Sod, and Landscaping	N/A	Silt fencing & inlet protect may be removed once seed & sodded areas are established on 80% of site.

• Install perimeter controls and request the inspection of the pre-construction erosion and sediment control measures

• Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing, and placement of physical barriers or other means acceptable to the City inspector and in

2. The contractor shall comply with all requirements of the Storm Water Pollution Prevention Plan, including but not limited to: • The contractor shall seed, mulch, or otherwise stabilize any disturbed area where the land disturbance activity has

• The contractor shall perform inspections of erosion and sediment control measures at the following minimum intervals:

o After each rainfall event of 1/2 inch or more - within 24 hours of the rain event

• The contractor shall maintain an inspection log including the inspector's name, date of inspection, observations as to the effectiveness of the erosion and sediment control measures, actions necessary to correct deficiencies, when the deficiencies were corrected, and the signature of the person performing the inspection. The inspection log shall be

• The contractor shall have the erosion and sediment control plan routinely updated to show all changes and amendments to the plan. A copy of the erosion and sediment control plan shall be kept on site and made available for

3. Unless otherwise noted in the plans, all seeding must conform to Division II-Construction and Materials Specification-Section 2150 published by the Kansas City Metropolitan Chapter of the American Public Works Association dated May 21, 2008. Permanent seeding shall be installed after completion of final grading except when seeding will occur outside of the acceptable seeding season as specified in Section 2150. When temporary seeding is installed, permanent seeding shall be installed at the next seeding season. Temporary seeding shall not be used as a stabilization measure for a period exceeding 12 months. The Permit will not be closed until permanent seeding has been established to a minimum of 70% density over

4. The contractor shall maintain installed erosion and sediment control devices in a manner that preserves their effectiveness for preventing sediment from leaving the site or entering a sensitive area such as a natural stream corridor, areas of the site

5. The contractor is responsible for providing erosion and sediment control for the duration of a project. If the City determines that the BMPs in place do not provide adequate erosion and sediment control at any time during the project, the

6. Concrete wash or rinse water from concrete mixing equipment, tools and/or ready-mix trucks, tools, etc. may not be discharged into or be allowed to run directly into any existing water body or storm inlet. One or more locations for concrete wash out will be designated on site, such that discharges during concrete washout will be contained in a small

7. Chemicals or materials capable of causing pollution may only be stored onsite in their original container. Materials stored outside must be in closed and sealed water-proof containers and located outside of drainage ways or areas subject to flooding. Locks and other means to prevent or reduce vandalism shall be used. Spills will be reported as required by law

8. Silt fences and erosion control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction; however, anticipated disturbance by utility construction shall not delay

9. Interior Silt Fence as necessary during construction. Portions may be limited as vegetation is established and hardscape is

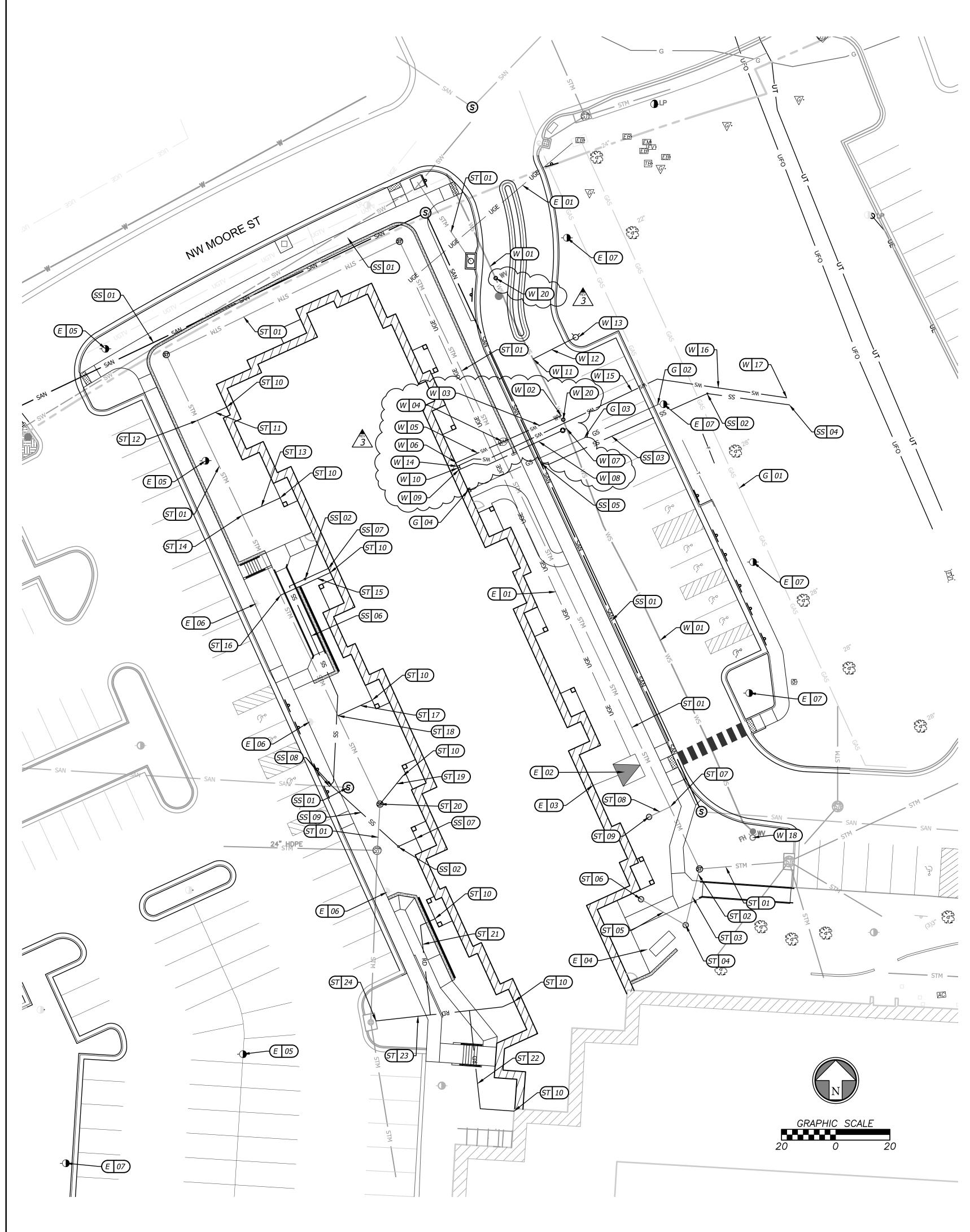
10. Private Erosion & Sediment Control inspections are required in accordance with NPDES schedule and requirements. After

000	DETAILS
• SE	E EROSION CONTROL DETAIL SHEET FOR THE FOLLOWING
600 601	TEMPORARY CONSTRUCTION ENTRANCE

FILTER FABRIC SILT FENCE STORM INLET PROTECTION 603 604 CONCRETE WASH-OUT



1	FDP RESUB	MITTAL	2/23/2024
3	Addendum 1		3/7/2024
DRAWING TITLE	E		
DD	RE-CONS		
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FRO	SION CO	NTROI	PI AN
DATE: Dec	ember 1, 2023	DRAWING	
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COMM. NO.	23104.00		0.0



UTILITY CONSTRUCTION NOTES

W - WATER SERVICE INFORMATION - LEE'S SUMMIT WATER UTILITIES

- 01 EXISTING 6" WATER MAIN LINE. 02
- INSTALL 22 LF OF 2" TYPE K COPPER SERVICE LINE WITH MINIMUM DEPTH OF COVER OF 42". 03 04 INSTALL 2" METER IN PIT AND 2"X3" REDUCER AFTER METER.
- 05 COPPER AND THE REMAINING PIPE CAN BE C-900.
- CONNECT WATER SERVICE TO BUILDING; SEE PLUMBING PLANS. 06
- CONNECT TO WATER MAIN WITH 6"X6" TEE AND 6" GATE VALVE. 07 INSTALL 43 LF OF 6" C-900 FIRE PROTECTION LINE WITH MINIMUM DEPTH OF COVER OF 42". 08 CONNECT FIRE PROTECTION LINE TO BUILDING PLUMBING ; SEE MEP PLANS. 09
- 10 FIRE DEPARTMENT CONNECTION. CONNECT TO WATER MAIN WITH 6"X6" TEE AND 6" GATE VALVE. 11
- INSTALL 18 LF OF 6" C-900 FIRE PROTECTION LINE WITH MINIMUM DEPTH OF COVER OF 42" 12
- INSTALL FIRE HYDRANT ASSEMBLY. 13

18

14

UTILITY NOTES

- PICK UP 3/4" WATER SERVICE STUB FROM BUILDING; SEE PLUMBING PLANS (BID ALTERNATE 1) 14
- INSTALL 79 LF OF 3/4" COPPER WATER SERVICE WITH MINIMUM DEPTH OF COVER OF 42" (BID ALTERNATE 1) 15 INSTALL 51 LF OF 3/4" COPPER WATER SERVICE WITH MINIMUM DEPTH OF COVER OF 42" (BID ALTERNATE 1) 16
- 17 CONNECT WATER SERVICE TO DOG WATER FOUNTAIN; SEE INSTALLATION GUIDE (BID ALTERNATE 1)
- EXISTING FIRE HYDRANT ASSEMBLY.

20 ADJUST VALVE FROM EXISTING TO PROPOSED ELEVATION PER GRADING PLAN

- E ELECTRIC SERVICE INFORMATION EVERGY
- 01 02 PROPOSED TRANSFORMER PAD.
- 03 ELECTRICAL PLAN.
- PROPOSED GENERATOR; REFER TO MEP 04
- 05 PROPOSED RELOCATED LIGHT POLE; REFER TO MEP 06 EXISTING LIGHT POLE TO REMAIN; REFER TO MEP
- PROPOSED LIGHT POLE; REFER TO MEP 07

G - GAS SERVICE INFORMATION - SPIRE

- 01 EXISTING 4" GAS MAIN.
- TAP EXISTING GAS MAIN FOR SERVICE LINE; COORDINATE W/ SPIRE. 02 03 INSTALL 72 LF GAS SERVICE LINE.
- GAS CONNECTION TO BLDG.; RE: PLUMBING PLAN. 04

ST - STORM SEWER INFORMATION - LEE'S SUMMIT PUBLIC WORKS

- STORM SEWER LINE; RE: SHEET C6.2 01
- CONNECT TO STORM STRUCTURE; FL = 981.00 02
- INSTALL 21 LF 6" HDPE @ 2% SLOPE 03
- INSTALL 12" NYLOPLAST DRAIN BASIN WITH DOME GRATE; RIM = 984.00; FL = 981.42 04
- 05 INSTALL 19 LF 6" HDPE @ 2% SLOPE
- INSTALL 8" NYLOPLAST DRAIN BASIN WITH DOME GRATE; RIM = 984.20; FL = 981.80 06 07 CONNECT TO STORM PIPE WITH INSERT A TEE; FL = 980.00
- 08 INSTALL 8 LF 6" HDPE @ 2% SLOPE
- INSTALL 12" NYLOPLAST DRAIN BASIN WITH DOME GRATE; RIM = 983.50; FL = 980.16 09
- CONNECT ROOF DRAIN LINE TO BUILDING PLUMBING; REFER TO MEP 10
- INSTALL 12 LF 4" HDPE @ MIN. 2% SLOPE 11
- CONNECT TO STORM PIPE WITH INSERT A TEE; FL = 977.47 12 13 INSTALL 15 LF 4" HDPE @ MIN. 2% SLOPE
- CONNECT TO STORM PIPE WITH INSERT A TEE; FL = 977.18
- INSTALL 20 LF 4" HDPE @ MIN. 2% SLOPE 15
- CONNECT TO STORM PIPE WITH INSERT A TEE; FL = 976.94 16
- 17 INSTALL 14 LF 4" HDPE @ MIN. 2% SLOPE
- 18 CONNECT TO STORM PIPE WITH INSERT A TEE; FL = 976.57 INSTALL 14 LF 6" HDPE @ MIN. 2% SLOPE
- 19 CONNECT TO STORM STRUCTURE; FL = 977.63 20
- INSTALL 40 LF 6" HDPE @ MIN. 2% SLOPE 21
- 22 INSTALL 50 LF 6" HDPE @ MIN. 2% SLOPE
- 23 INSTALL 50 LF 4" HDPE @ MIN. 2% SLOPE
- CONNECT TO STORM STRUCTURE; FL = 977.50 24

SS - SANITARY SEWER INFORMATION - LEE'S SUMMIT PUBLIC WORKS

- RELOCATED SANITARY SEWER MAIN; RE: SHEET C6.1 01
- 02 INSTALL SANITARY SEWER CLEANOUT INSTALL 98 LF OF 4" PVC-SDR26 SANITARY SERVICE LINE @ 2% MIN. SLOPE (BID ALTERNATE 1) 03
- CONNECT SANITARY LINE TO DOG WATER FOUNTAIN; REFER TO INSTALLATION GUIDE (BID ALTERNATE 1) 04
- CONNECT TO SANITARY MAIN WITH 8"X4" WYE; FL = 971.52 (BID ALTERNATE 1) 05
- 06 INSTALL 95 LF OF 6" PVC-SDR26 SANITARY SERVICE LINE @ 1% MIN. SLOPE
- CONNECT TO BUILDING PLUMBING; REFER TO MEP 07
- CONNECT TO SANITARY MAIN WITH 8"X6" WYE; FL = 970.00 08
- 09 INSTALL 40 LF OF 6" PVC-SDR26 SANITARY SERVICE LINE @ 1% MIN. SLOPE

<u>PLANNING AND DEVELOPMENT</u> <u>CODES ADM</u> CITY HALL CITY HALL
Cliff Will Cliff Will 220 SE GREEN STREET 220 SE GRE LEE'S SUMMIT, MO 64063 LEE'S SUMM TEL: (816) 969-1600 TEL: (816) 1 FAX: (816) 969-1619 FAX: (816) 1

CITY HALL 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 TEL: (816) 969-1800 FAX: (816) 969-1809

CITY HALL 1200 SE HAMBLEN RD LEE'S SUMMIT, MO 64063 TEL: (816) 969-1900 FAX: (816) 969-1935

- 1. CONTRACTOR SHALL REFER TO ALL SPECIFICATIONS, GUIDELINES, AND INSTALLATION DRAWINGS FROM THE CITY OF LEE'S SUMMIT, EVERGY, AND SPIRE FOR THE INSTALLATION OF ALL SERVICE LINES.
- OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION AND FOR MAKING HIS OWN VERIFICATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- 3. CONTRACTOR TO ENSURE 6" MINIMUM SEPARATION BETWEEN UTILITIES AT CROSSINGS. CONTRACTOR TO CALL CIVIL IF ANY CONFLICTS BETWEEN UTILITIES ARE FOUND.
- *4. FIRE LINE NOTES:* 4.1. ALL PRIVATE FIRE LINES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 24, AND OTHER APPLICABLE CODES AND STANDARDS. 4.2. CONTACT THE FIRE DEPARTMENT TO SCHEDULE INSPECTIONS <u>PRIOR TO</u> PRIVATE FIRE LINES BEING BACKFILLED.
- 4.3. CONTACT THE FIRE DEPARTMENT TO WITNESS SCHEDULED HYDROSTATIC TESTS AND FLUSHES OF PRIVATE FIRE LINES. 5. STUB ALL CONNECTIONS TO WITHIN 5' OF THE BUILDING TO PROVIDE CONNECTION INTO THE BUILDING BY MECHANICAL/PLUMBING CONTRACTOR.
- 6. CONTRACTOR TO ENSURE MIN. 18" VERTICAL SEPARATION BETWEEN UTILITIES AT CROSSING. CONTRACTOR TO CALL ENGINEER IF ANY CONFLICTS BETWEEN UTILITIES ARE FOUND.

INISTRATION EN STREET 1IT, MO 64063 969-1200

CONNECT TO WATER MAIN WITH 2" CORPORATION STOP; REFER TO CONNECTION DETAIL.

INSTALL 21 LF OF 3" SERVICE LINE WITH MINIMUM DEPTH OF COVER OF 42". THE FIRST 10' OF PIPE BEYOND THE METER SHALL BE

CONTRACTOR TO INSTALL PRIMARY UNDERGROUND ELECTRIC SERVICE FROM EXISTING ELECTRIC STRUCTURE TO TRANSFORMER PAD.

CONTRACTOR TO INSTALL SECONDARY UNDERGROUND ELECTRIC SERVICE LINE FROM PROPOSED TRANSFORMER TO BUILDING; REF.

EVERGY

SPIRE

ELECTRIC COMPANY

TEL: (888) 471-5275

TEL: (816) 756-5252

GAS COMPANY

UTILITY CONTACTS

CITY OF LEE'S SUMMIT, MO

969-1201 <u>LITIES</u>

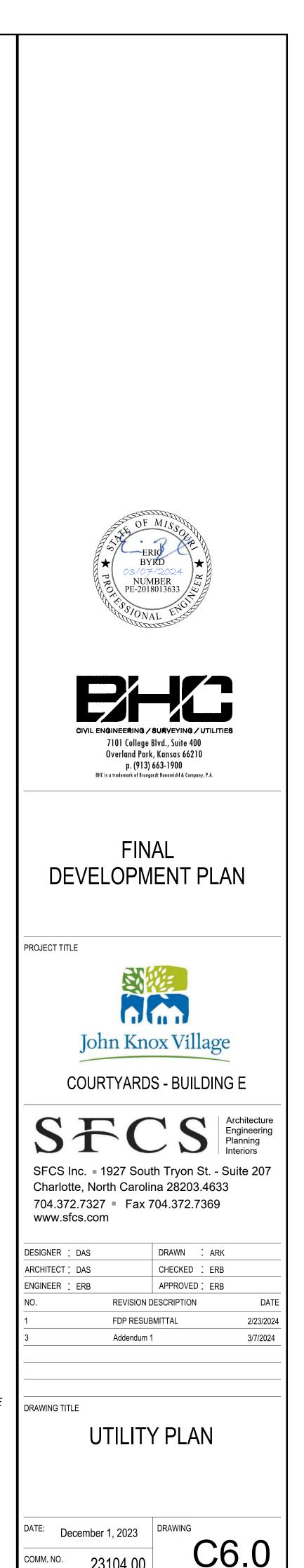
PLANNING AND DEVELOPMENT CITY HALL 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 TEL: (816) 969-1600 FAX: (816) 969-1619

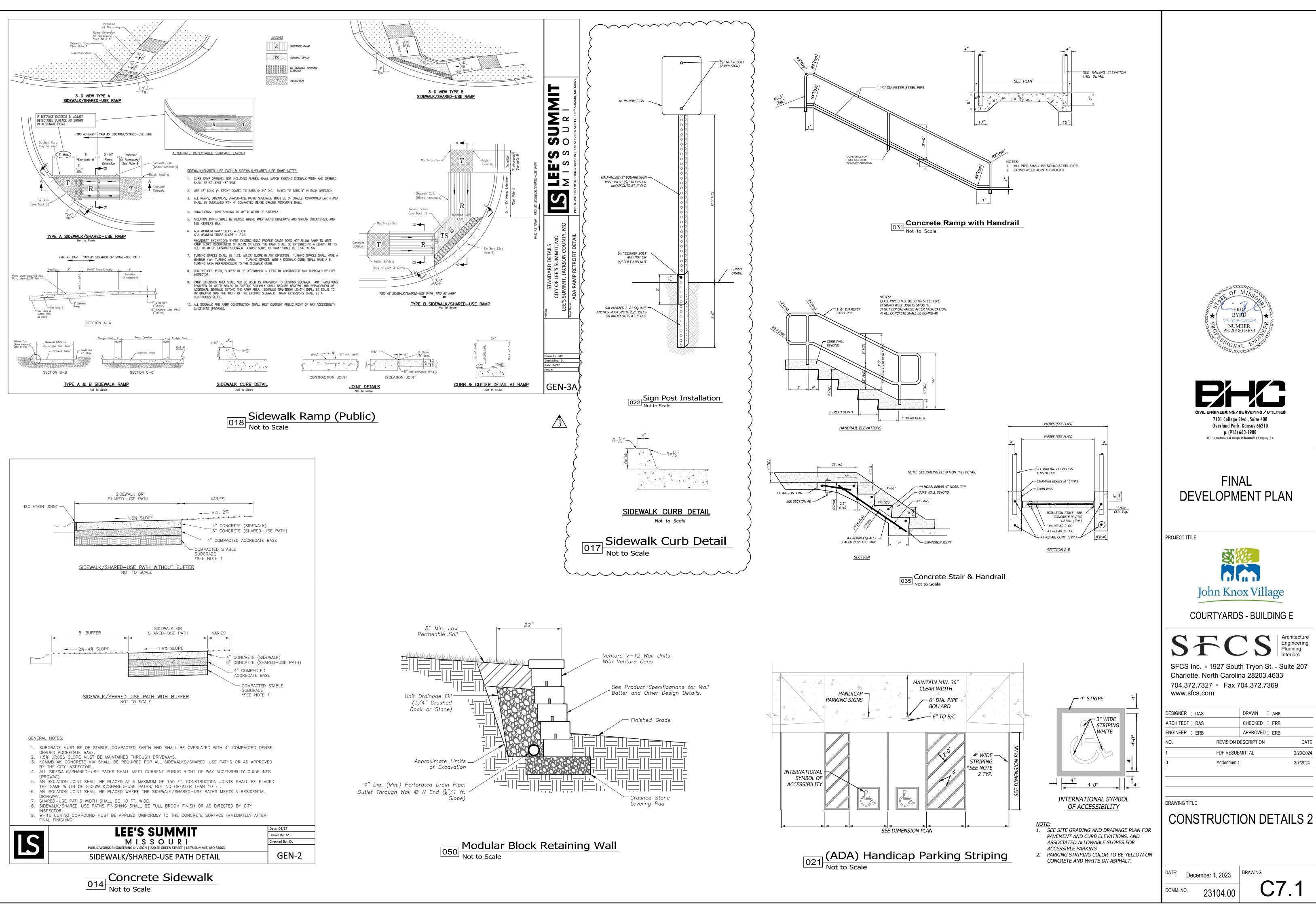
PUBLIC WORKS CITY HALL 220 SE GREEN STREET LEE'S SUMMIT, MO 64063 TEL: (816) 969-1800 FAX: (816) 969-1809

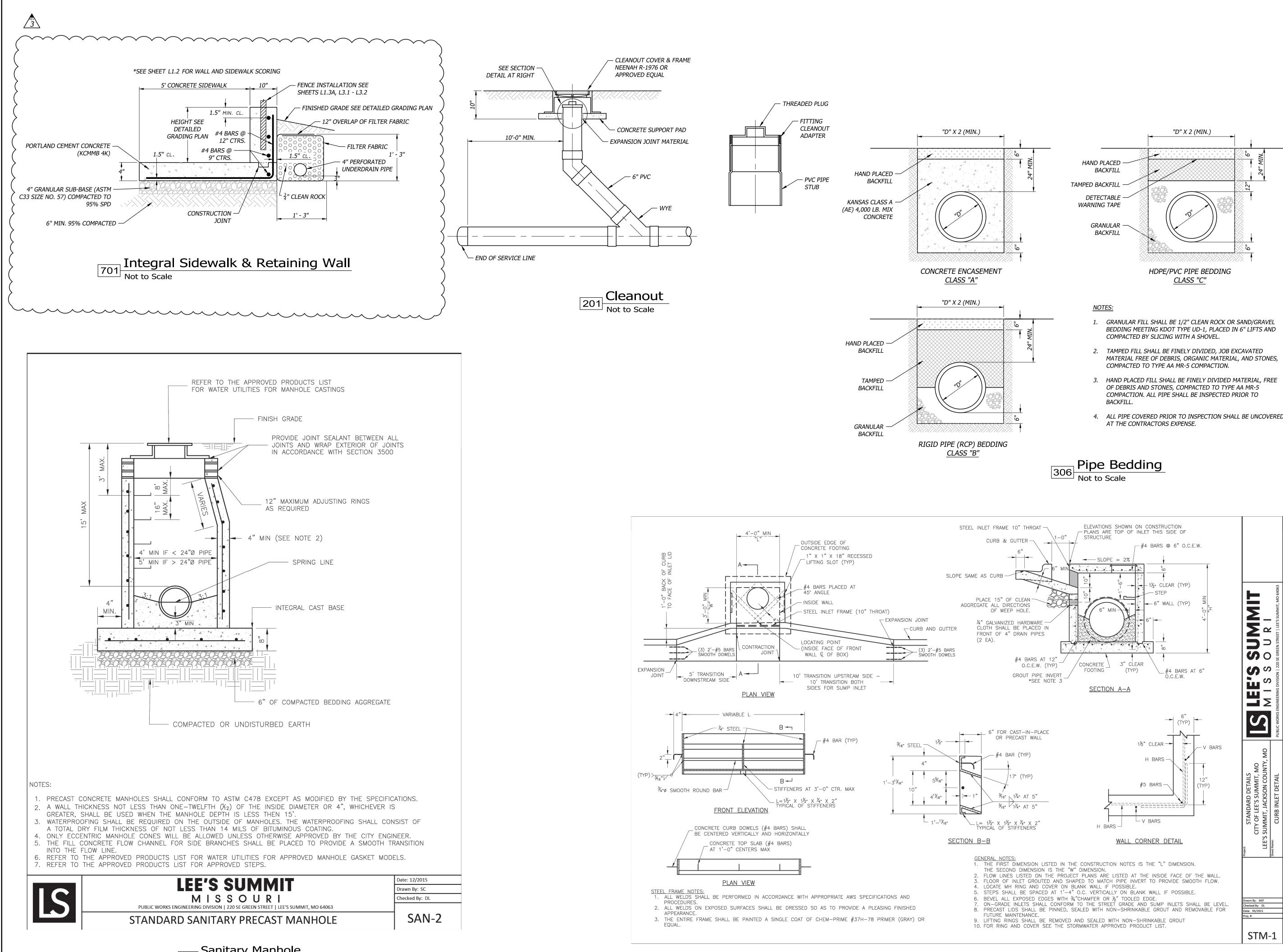
COMM. NO.

23104.00

2. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE

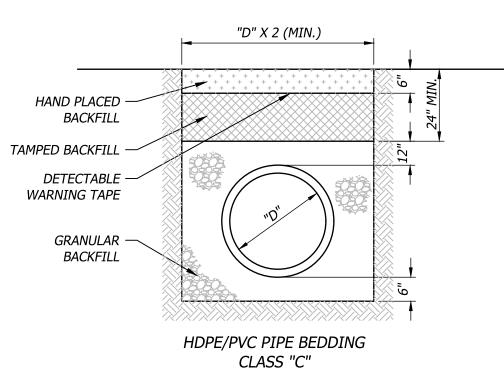




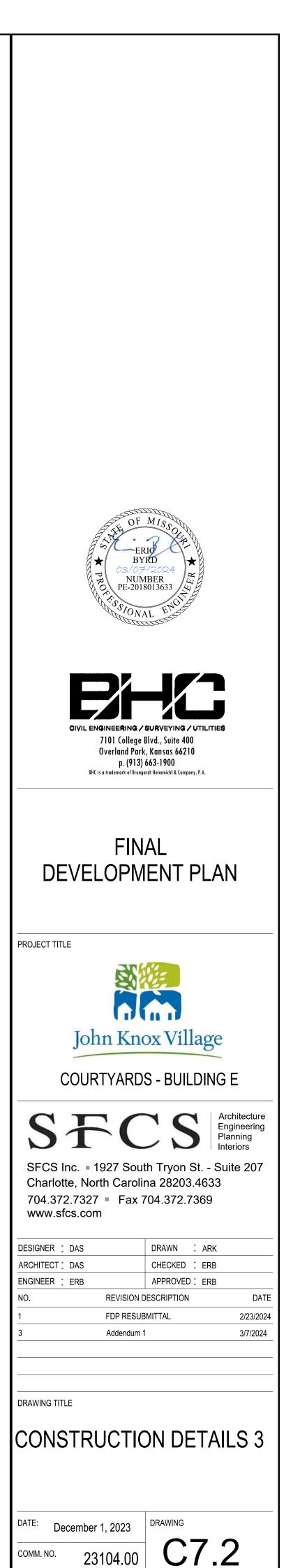


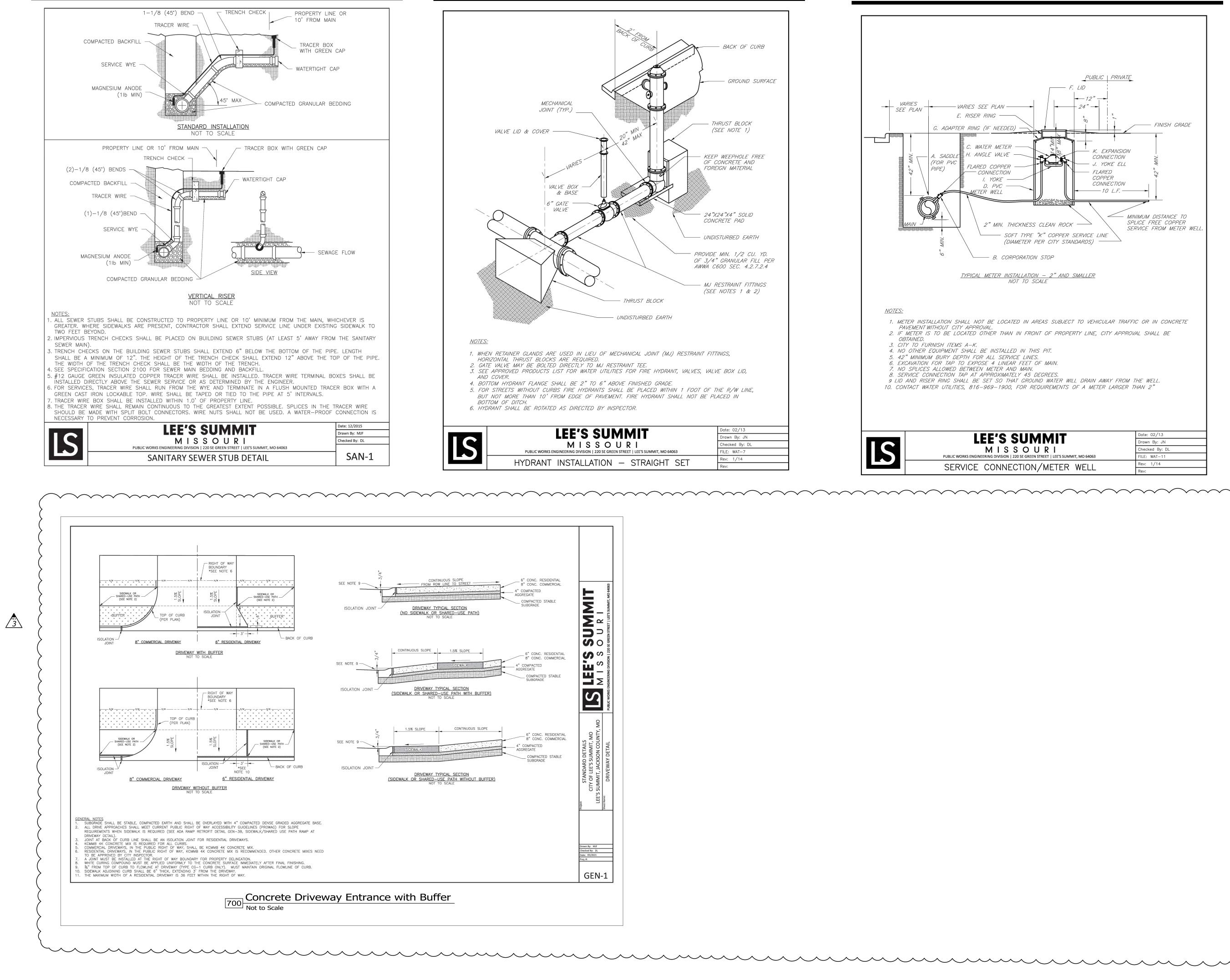
200 Sanitary Manhole Not to Scale

Curb Inlet 305 $\stackrel{\smile}{\rightarrow}$ Not to Scale

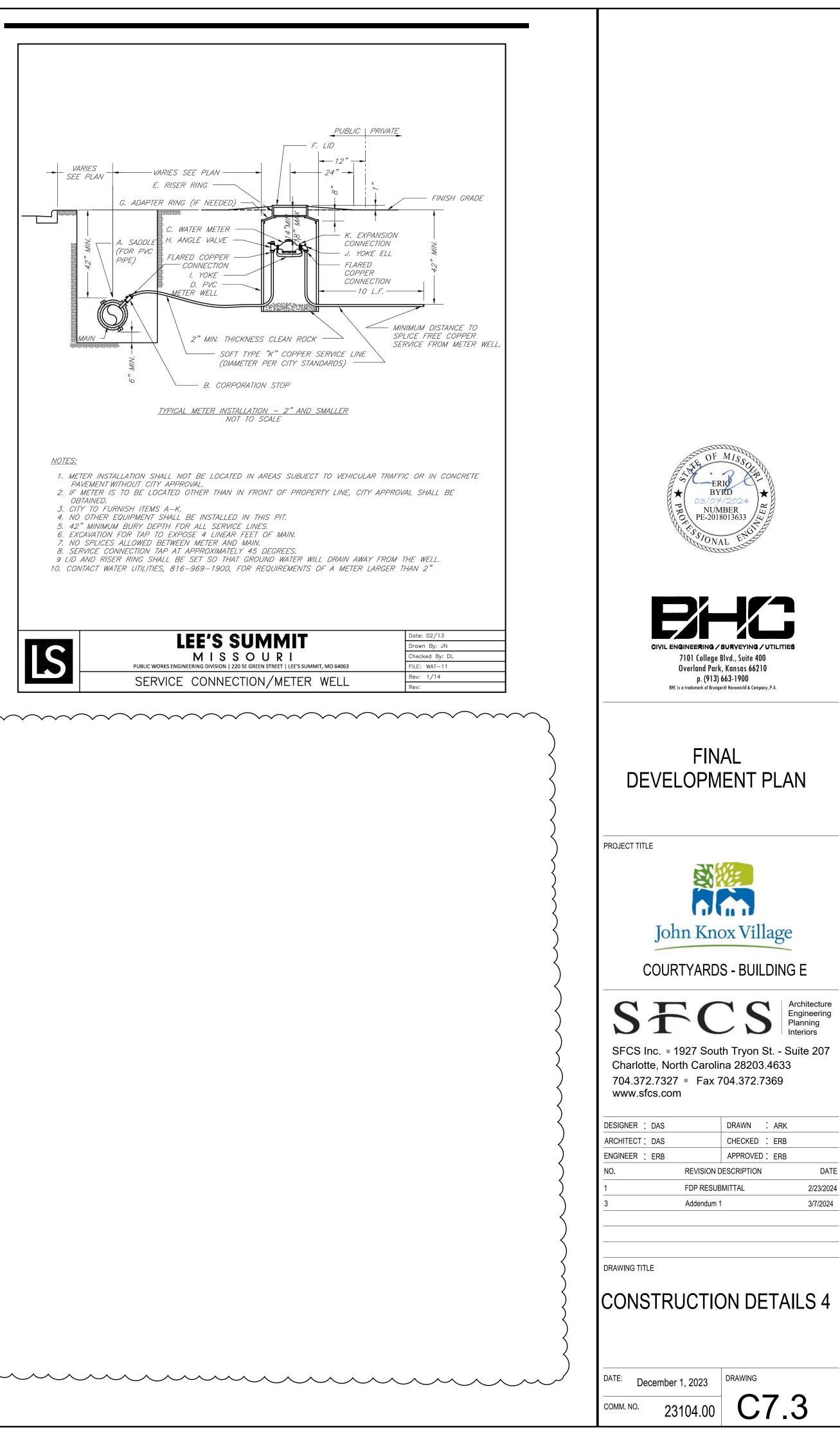


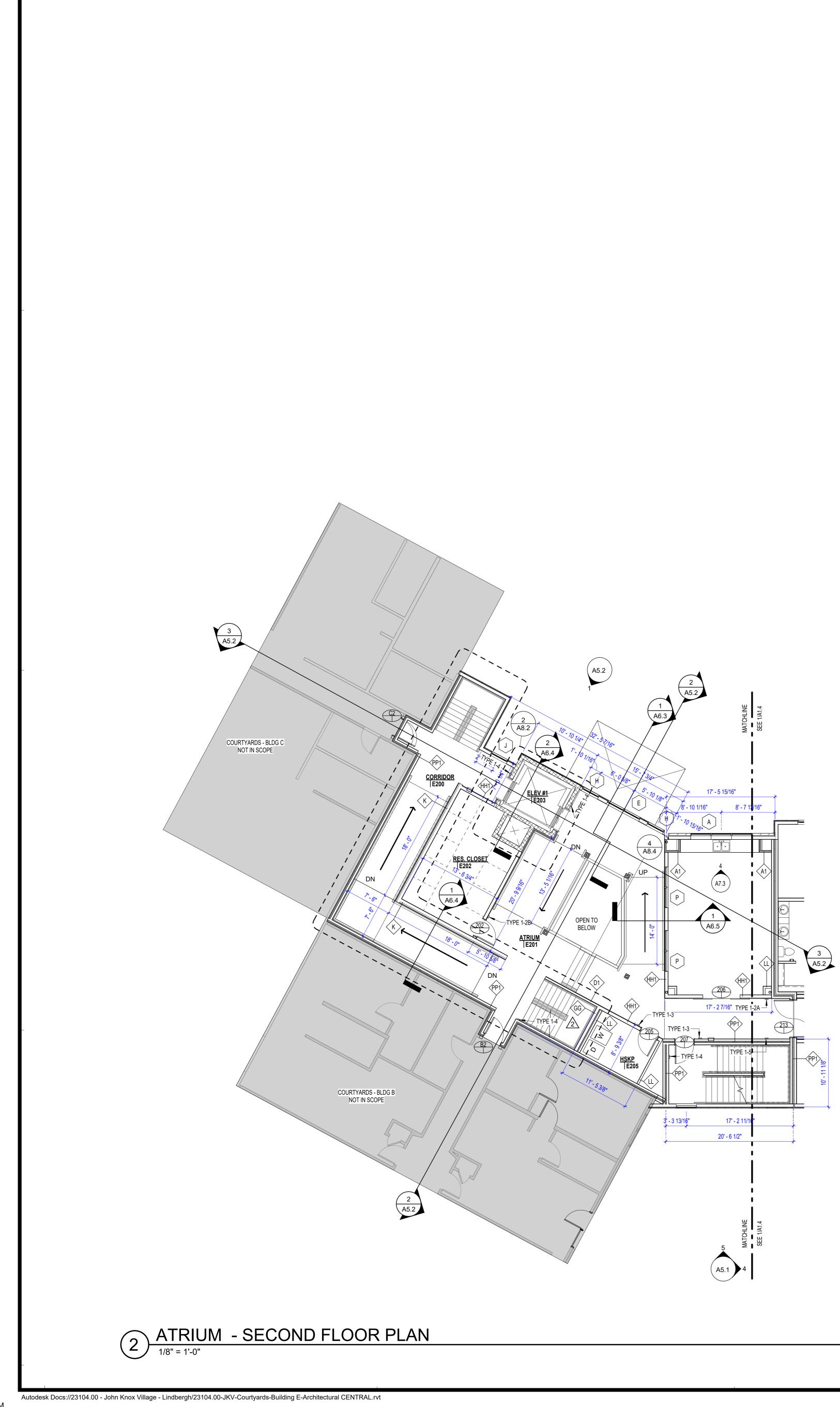
- 1. GRANULAR FILL SHALL BE 1/2" CLEAN ROCK OR SAND/GRAVEL BEDDING MEETING KDOT TYPE UD-1, PLACED IN 6" LIFTS AND
- MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND STONES,
- 3. HAND PLACED FILL SHALL BE FINELY DIVIDED MATERIAL, FREE
- 4. ALL PIPE COVERED PRIOR TO INSPECTION SHALL BE UNCOVERED



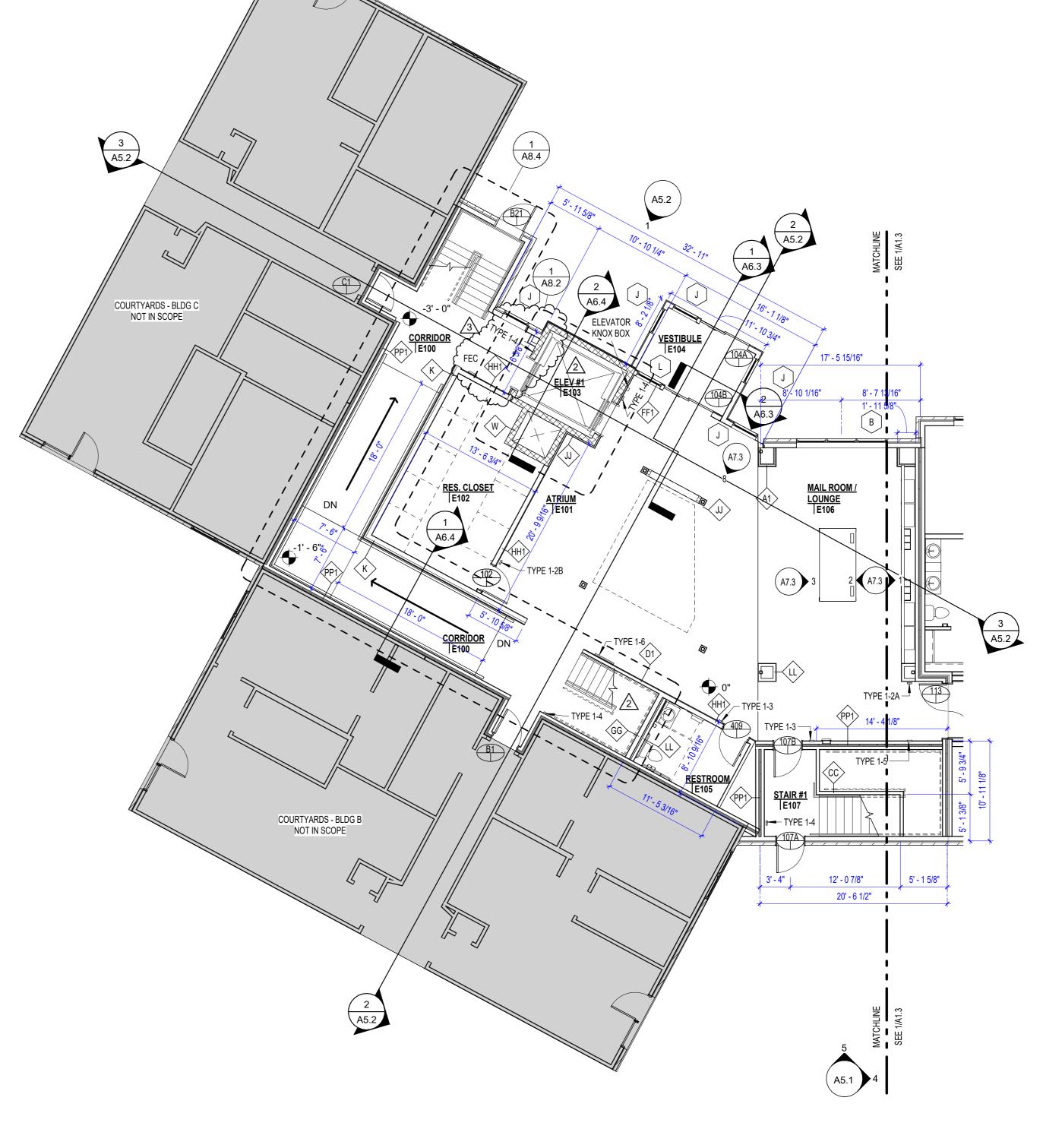


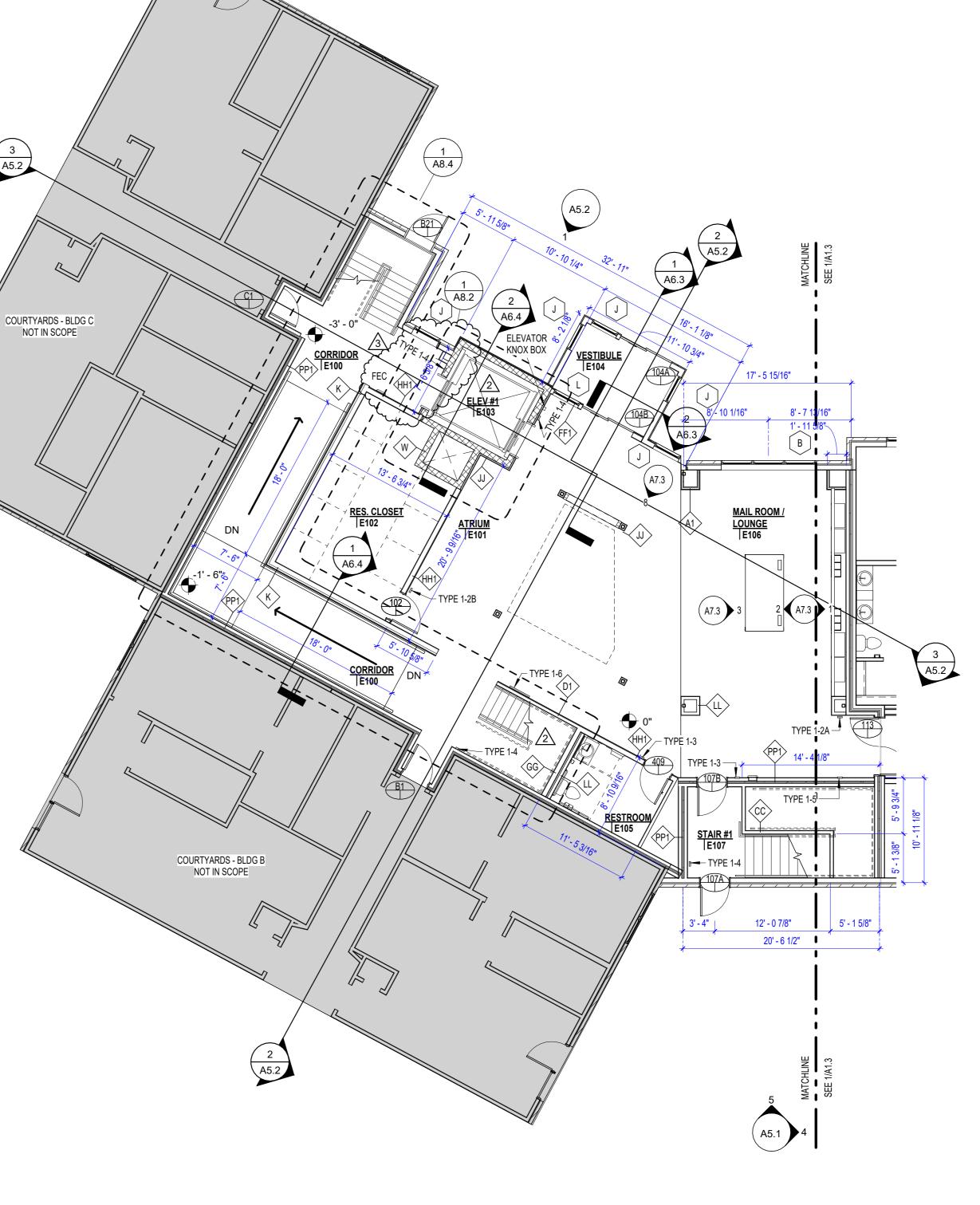
LEE'S SUMMIT	Date: 02/13
LEE 3 JUIVIIVII I	Drawn By: JN
MISSOURI	Checked By: DL
PUBLIC WORKS ENGINEERING DIVISION 220 SE GREEN STREET LEE'S SUMMIT, MO 64063	FILE: WAT-7
HYDRANT INSTALLATION – STRAIGHT SET	Rev: 1/14
TTURANT INSTALLATION - STRAIGHT SET	Rev





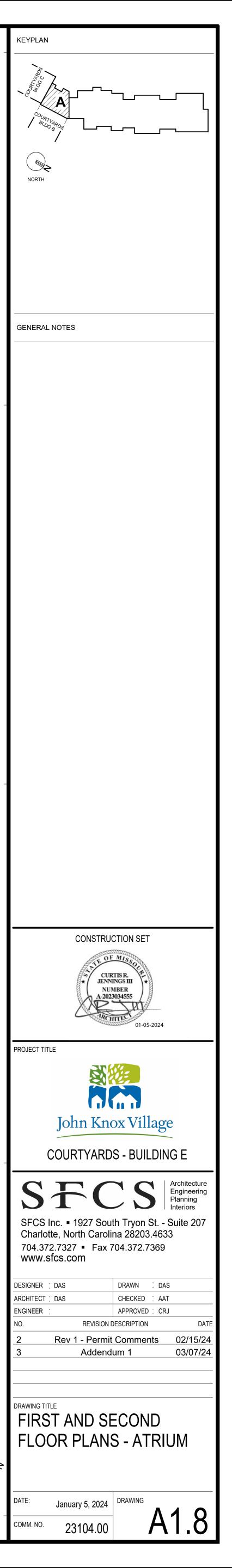
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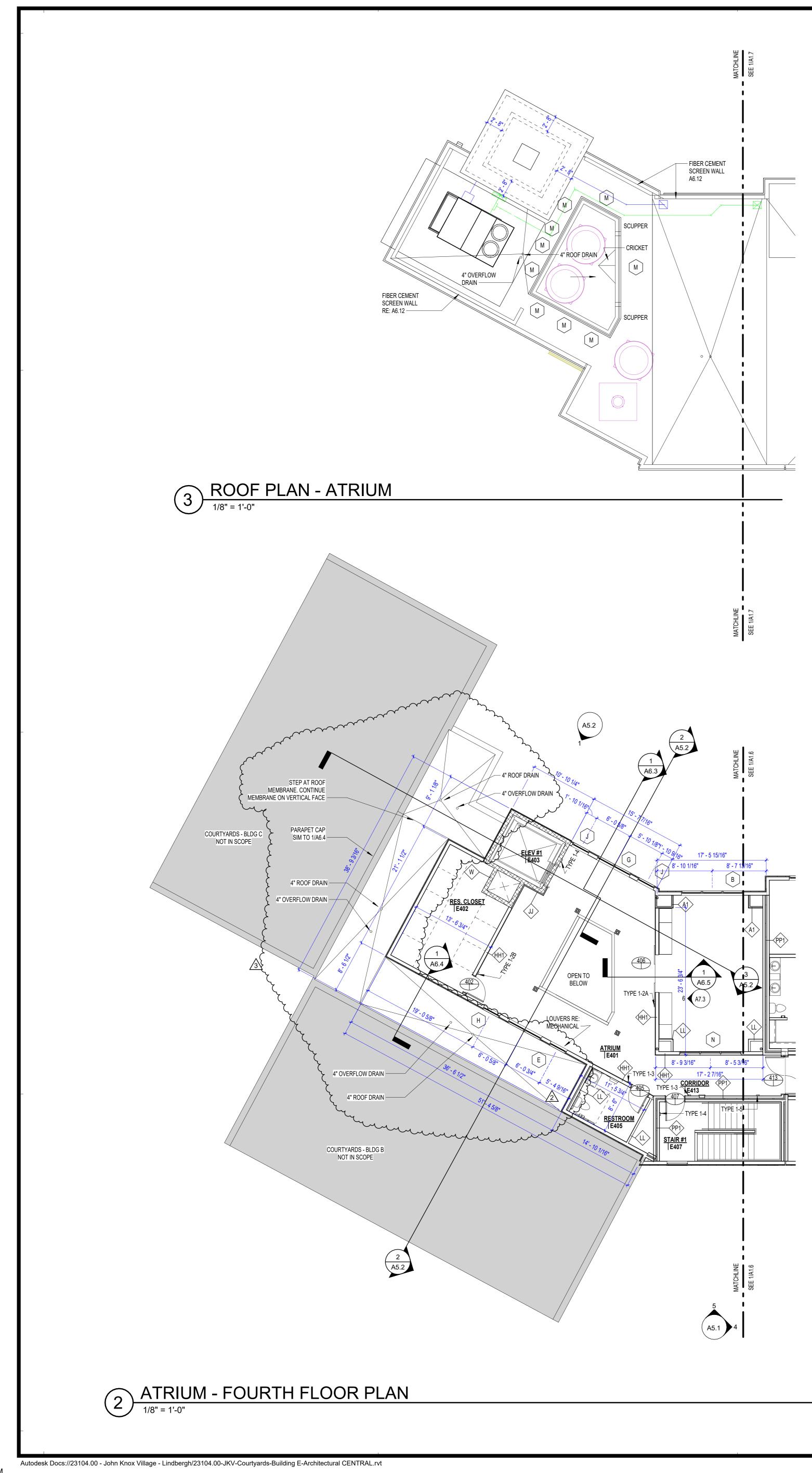


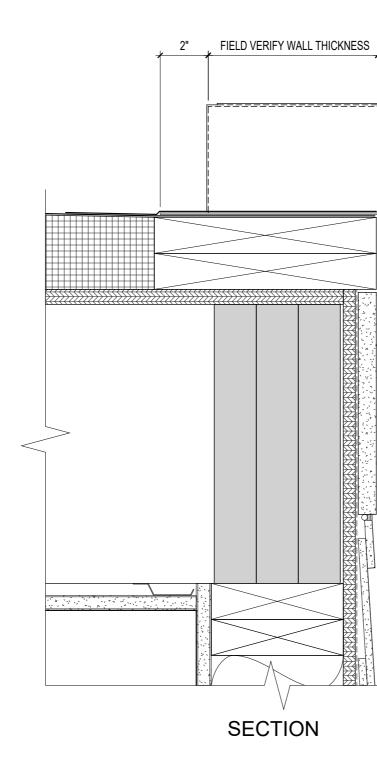


1 ATRIUM - FIRST FLOOR PLAN

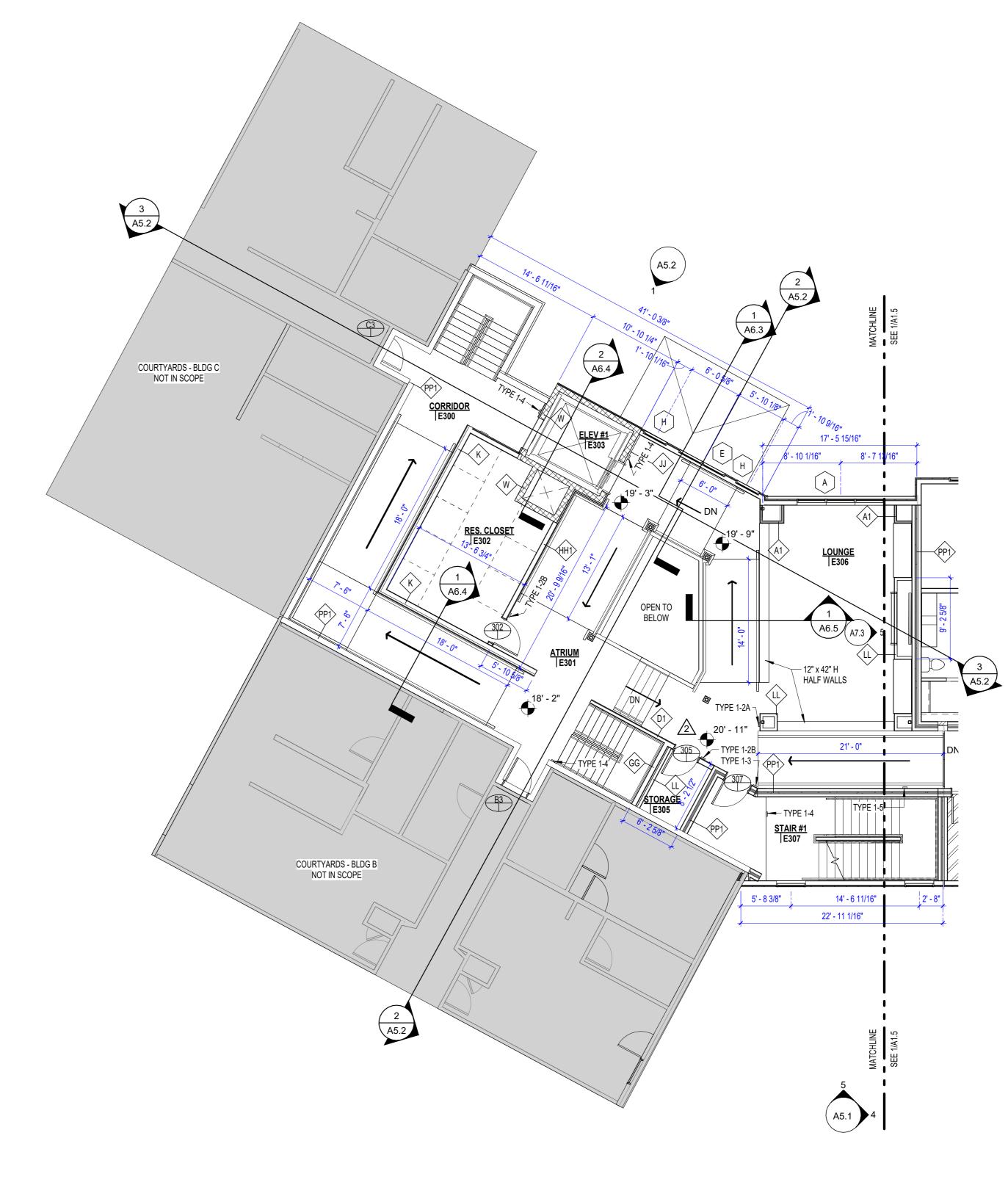
NORTH



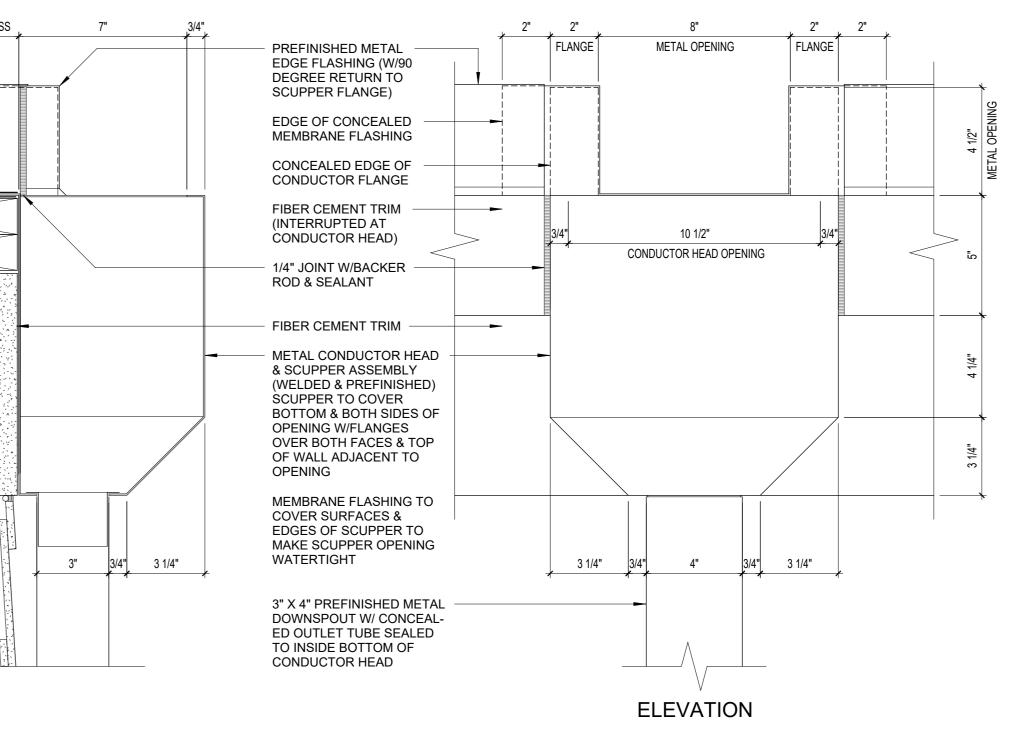




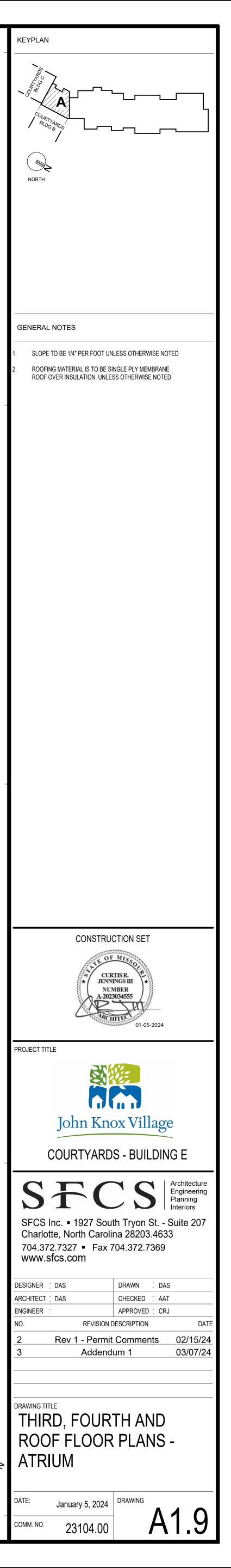


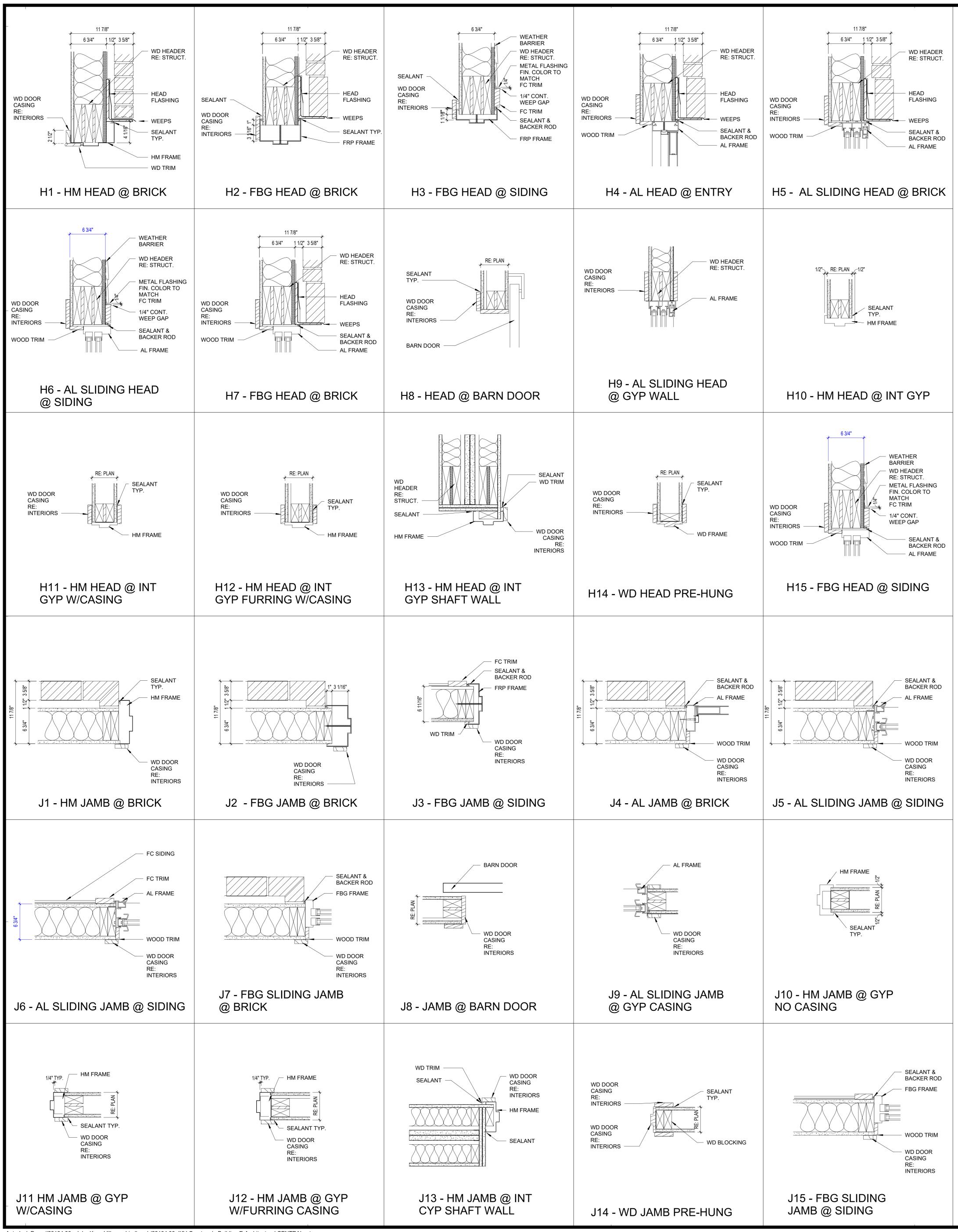






DIMENSIONS ADDED AND ADJUSTED SIGNAGE ADDED 2 NORTH





3/8/2024 7:29:13 AM Autodesk Docs://23104.00 - John Knox Village - Lindbergh/23104.00-JKV-Courtyards-Building E-Architectural CENTRAL.rvt

DOOR SCHEDULE													
			DOOR			FIRE		FRAME			HARDWA	RE ACCESS	-
ROOM	ELEV	TYP	E 1	WIDTH	HEIGHT	RATING	ELEV	HEAD	JAMB	LOCK	CLOS	CNTRL	Comments
102 104A	F FG	WD AL		3' - 0" 6' - 0"	6' - 8" 7' - 0"	20 MIN	1 2	H12 H6	J12 J6	2	X		Integrated with Smoke Contro
104B	FG	AL		6' - 0"	7' - 0"		2	H9	J9	8		Х	System Integrated with Smoke Control
107A	F	НМ		3' - 0"	7' - 0"		2	H1	14	7	x	Х	System
107A 107B	F FG	HM		3 - 0 3' - 0"	6' - 8"	90 MIN	2 1	H13	J1 J13	6	<u> </u>	Α	
108A	FG FG	AL		6' - 0"	7' - 0"		2	H1	J1	8	X		
108B		AL		6' - 0"	7' - 0"		2	H9	J9	8	X	Х	
113 115	F F	HM WD	(2)	3' - 0" 3' - 0"	6' - 8" 6' - 8"	90 MIN 20 MIN	3	H13 H12	J13 J12	5	X X		
117	F	WD		3 - 0"	6' - 8"	20 MIN 20 MIN	1	H12	J12 J12	10 <u>/2</u> 11A	X		
118	F	WD		3' - 0"	6' - 8"		1	H10	J10	11A	Х		
120	FG	WD		<u></u> 3' - 0""	6' - 8"		1	H11	J11	10	X		
125 126	E E	AL WD	_	. 4' - 6""	7' - 0" 6' - 8"	20 MIN	2	H4 H12	J4 J12	9	X	Х	
120	'F	WD	_	4' - 6"	6' - 8"	20 10111	1	H12	J12 J10	4			
128A	F	HM		3' - 0"	7' - 0"		1	H1	J1	7	X	Х	
128B	F	HM		3' - 0"	6' - 8"	90 MIN	1	H12	J12	6	X		
129 136	F F	WD WD		3' - 0" 3' - 0"	6' - 8" 6' - 8"	20 MIN 45 MIN	1	H12 H12	J12 J12	2 10	X X		
202	F F	WD WD		3' - 0" 3' - 0"	6' - 8" 6' - 8"	45 MIN 20 MIN	1	H12 H12	J12 J12	10	X		
205	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	1	X		
206		WD	(2)	3' - 0"	6' - 8"			H8	J8	11			
207 208	F F	HM WD		3' - 0" 3' - 0"	6' - 8" 6' - 8"	90 MIN 20 MIN	1	H13 H12	J13 J12	6	X		
208	F	MD HM	(2)	3' - 0" 3' - 0"	6' - 8" 6' - 8"	20 MIN 90 MIN	1	H12 H13	J12 J13	2 5	X X		
215	F	WD		3' - 0"	6' - 8"		1	H12	J12	10			
217	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	10	Х		
218	F	WD		3' - 0"	6' - 8"		1	H10	J10	10	V		
226 227	F	WD WD		-2' 0" -4' - 6"	6' - 8" 6' - 8"	20 MIN	1	H12 H10	J12 J10	2	X		
228	F	HM		3' - 0"	6' - 8"	90 MIN	1	H13	J13	6	X		
229	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	2	Х		
231	F	WD	_	3' - 0"	6' - 8"	20 MIN	1	H12	J12	2	X		
236 302	F F	WD WD		3' - 0" 3' - 0"	6' - 8" 6' - 8"	20 MIN 20 MIN	1	H12 H12	J12 J12	1 2	X X		
305	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	10	X		
307	F	HM		3' - 0"	6' - 8"	90 MIN	1	H13	J13	6	Х		
308	F	WD	(0)	3' - 0"	6' - 8"	90 MIN	1	H13	J13	10	X		
313 315	F F	HM WD	(2)	3' - 0" 3' - 0"	6' - 8" 6' - 8"	90 MIN 20 MIN	3	H13 H12	J13 J12	5 10	X X		
317	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	10	X		
318	F	WD		3' - 0"	6' - 8"		1	H10	J10	10			
326	F		_	<u>-</u> 24' - 6"	6' - 8"	20 MIN	1	H12	J12	2	X		
327 328	F	WD HM		3' - 0"	6' - 8" 6' - 8"	90 MIN	1	H10 H13	J10 J13	4 6	X		
329	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	2	X		
331	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	2	Х		
336	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	1	X		
402 405	F F	WD WD		3' - 0" 3' - 0"	6' - 8" 6' - 8"	20 MIN 20 MIN	1	H12 H12	J12 J12	2	X X		
405	FF	WD	(2)	3' - 0"	6' - 8"		1	H8	J8	11			
407	F	HM		3' - 0"	6' - 8"	90 MIN	1	H13	J13	6	X		
408	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	2	X		
409 413	F F	WD HM	(2)	3' - 0" 3' - 0"	6' - 8" 6' - 8"	20 MIN 90 MIN	1	H12 H13	J12 J13	3 5	X X		
415	F F	WD	(∠)	3 - 0"	6' - 8"	20 MIN	1	H13	J13 J12	10	X		
417	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	10	X		
418	Ę	WD		<u>-</u> 4' - 6"	6' - 8"		1	H10	J10	10			
426 427	F	WD WD		3' - 0"	6' - 8" 6' - 8"	20 MIN	1	H12 H10	J12 J10	2 4	X		
427	F	HM	_	3' - 0"	6' - 8"	90 MIN	1	H10	J13	6	X		
429	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	2	Х		
431	F	WD		3' - 0"	6' - 8"	20 MIN	1	H12	J12	2	X		
436 B1	F F	WD HM		3' - 0" 3' - 0"	6' - 8" 6' - 8"	20 MIN 90 MIN	1	H12 H13	J12 J13	1 6	X X		
B1 B2	FFG	HM		3 - 0" 	6' - 8"	90 MIN 90 MIN	1	H13 H13	J13 J13	6	X		
B2 B3	FG F	HM		3' - 0" 3' - 0"	6' - 8"	90 MIN	1	H13	J13	6	X		
B21		AL			7' - 0"			H4	J4	9	X		
C1	F	HM		3' - 0"	6' - 8" 6' - 8"	90 MIN	1	H13	J13	6	X		
C2 C3	F F	HM HM		3' - 0" 3' - 0"	6' - 8" 6' - 8"	90 MIN 90 MIN	1	H13 H13	J13 J13	6 6	X X		
			005						I				
Т	YPE MAT		oor /idth	PAIR	HEIGHT	FIRE RATING	ELEV	FRAME HEAD	JAMB	HW SET		C	OMMENTS
PI	D MI	DF 3'	-0"		6'-8"	20 MIN		H12	J12	12		<u></u>	······································
	G-1 FE		-0"		6'-8"			H2/H3	J2/J3	16		R - INTEGRAL	BLINDS, SCREENED DOOR
PI			-0"		6'-8"			H14	J14	15			
	G-1 FE		-0"		6'-8"			H7/H15	J7/J15	20	EXTERIO	R - INTEGRAL	BLINDS
	D-1 DF	- 2'	-10"	1	6'-8"		1	H14	J14	13	1		

 H14
 J14

 H14
 J14

 H14
 J14

 H14
 J14

 H14
 J14

 H14
 J14

 H14
 J14

H14 J14 H14 J14 H14 J14 14

18

FIBERGLASS DOORS BASIS OF DESIGN - JELD WEN DESIGN-PRO SERIES

PD-1

PD-1

PD-1

PD-1

U10

PD/PKT

PD/PKT

ΡD

PAIR 2'-6"

PAIR 2'-0"

PAIR 1'-9"

PAIR 2'-4"

2'-0"

2'-10"

2'-6"

6'-8" 6'-8" 6'-8"

6'-8"

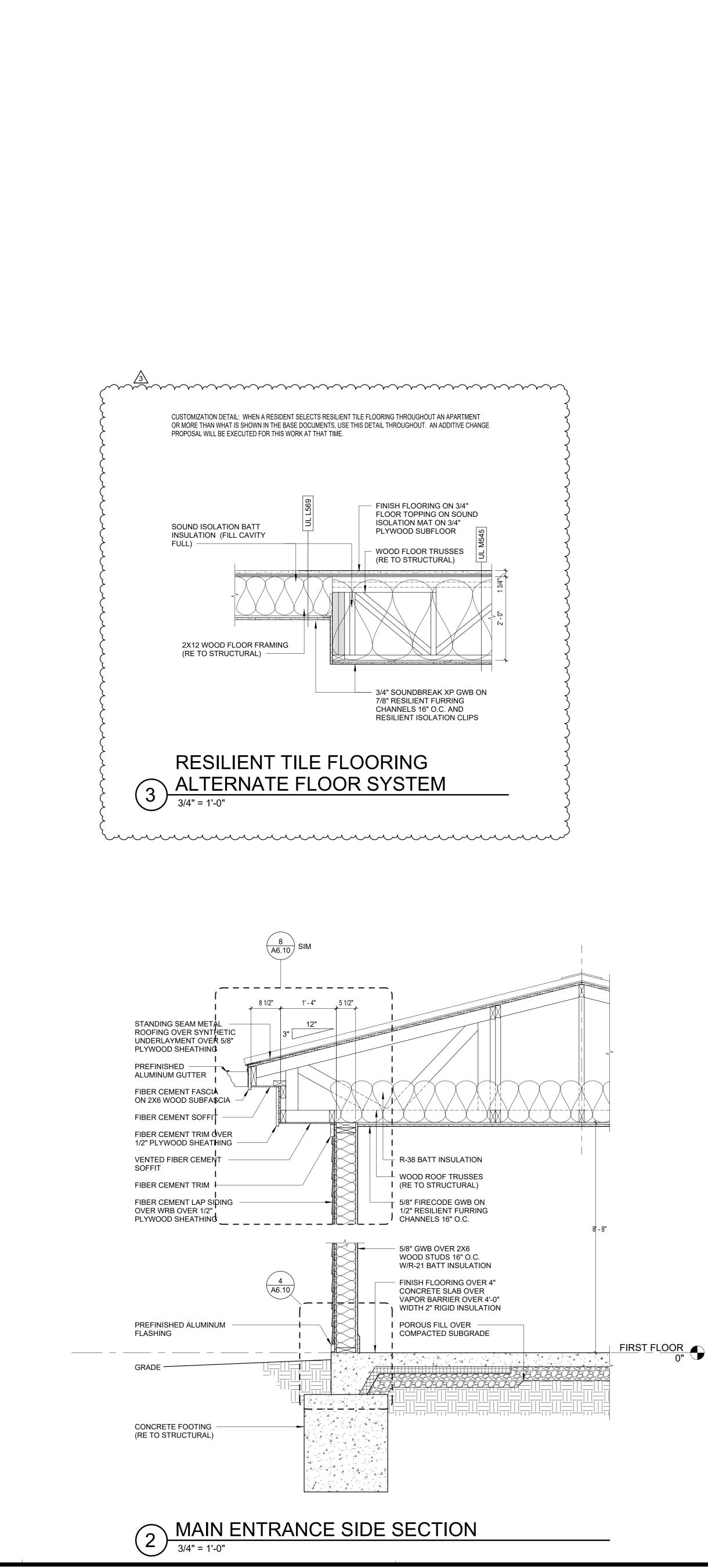
6'-8"

6'-8"

6'-8"

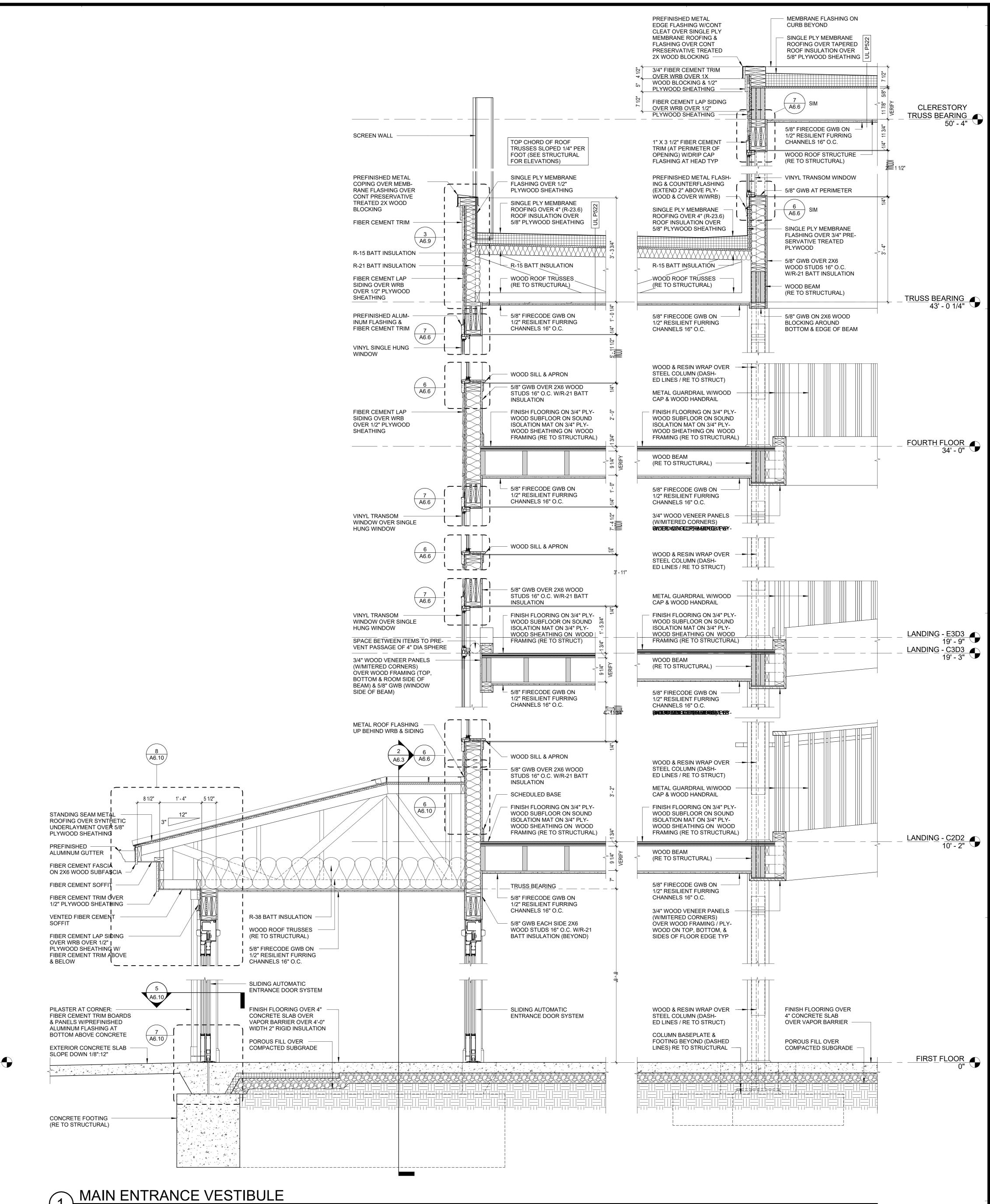
 DOORS ARE TO BE INSTALLED SO THE BACK OF THE FRAME IS 4", TYP. TO FACE OF WALL AT INSIDE CORNER, UNLESS NOTED OTHERWISE.
 PROVIDE LARSON SIGNATURE CLASSIC STORM DOOR (SANDSTONE) AT ALL SWING TYPE BALCONY DOORS. PROVIDE STANDARD HW.



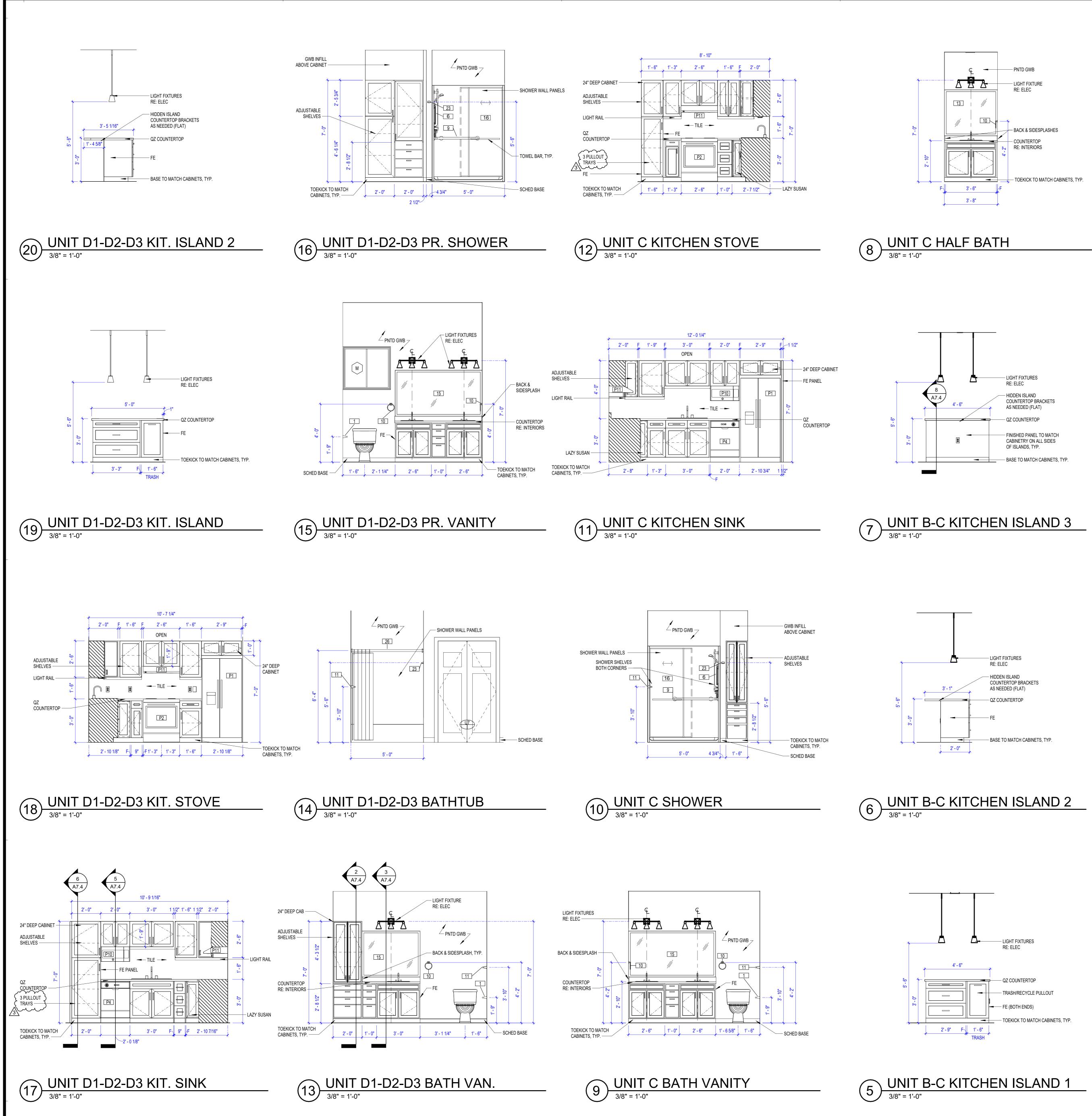


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3/4" = 1'-0"

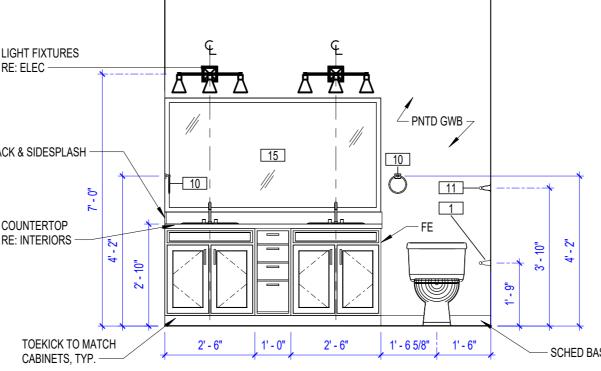


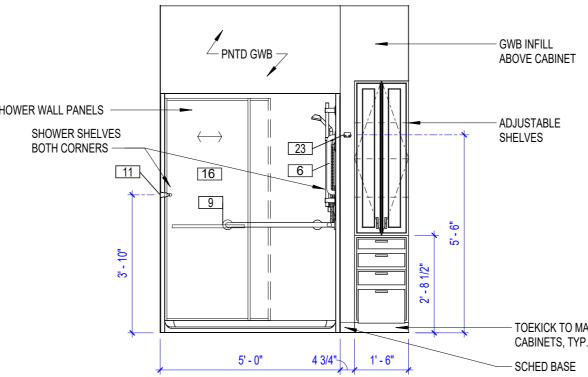
	CTION SET	
× CUP	MISSOURIE MISSIN MBER 3034555 01-05-2024	
PROJECT TITLE	ox Villag	e
COURTYARD	os - Buildin	IG E
511		Engineering Planning Interiors
SFCS Inc. • 1927 Sou Charlotte, North Caroli 704.372.7327 • Fax 7 www.sfcs.com	ina 28203.463	
Charlotte, North Caroli 704.372.7327 ■ Fax	ina 28203.463	33
Charlotte, North Caroli 704.372.7327 • Fax 7 www.sfcs.com	ina 28203.463 704.372.7369	33 M
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Charlotte, North Caroli 704.372.7327 • Fax 7 www.sfcs.com DESIGNER : DAS ARCHITECT : DAS ENGINEER :	Ina 28203.463 704.372.7369 DRAWN : JAI CHECKED : AA APPROVED : DESCRIPTION	33 м т
Charlotte, North Caroli 704.372.7327 • Fax 7 www.sfcs.com DESIGNER : DAS ARCHITECT : DAS ENGINEER : NO. REVISION	DRAWN : JAI CHECKED : AA APPROVED : DESCRIPTION Ium 1	33 M T DATE



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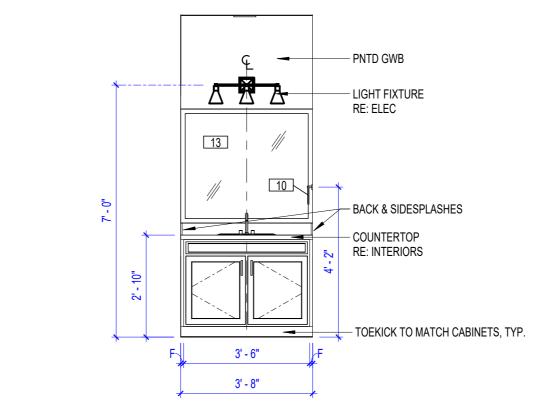
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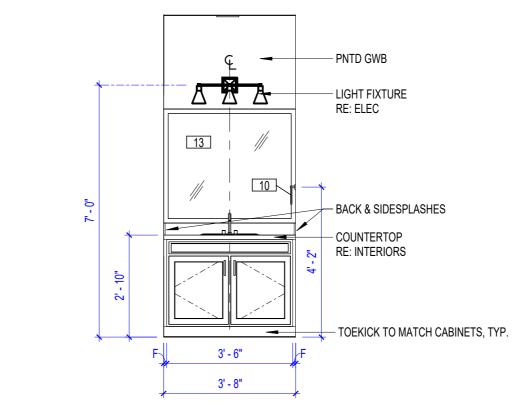


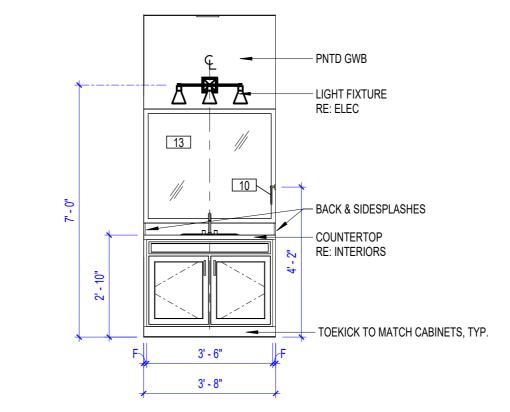


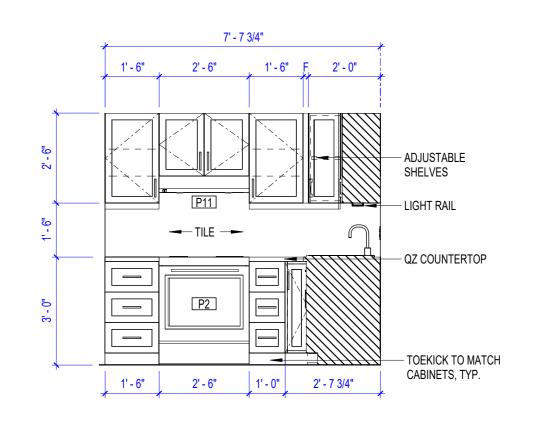






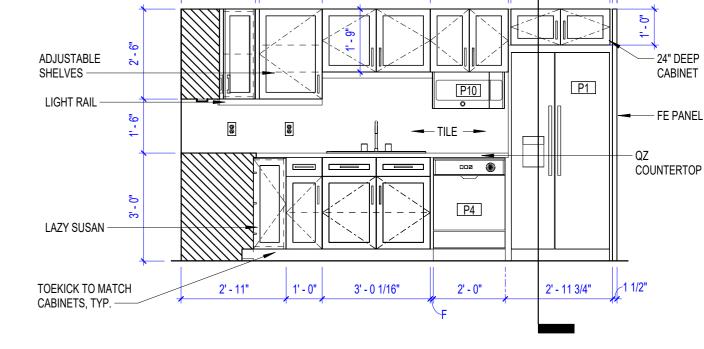








2' - 0 3/4" F 1' - 9"



12' - 1 1/4"

3' - 0"

OPEN

A7 4

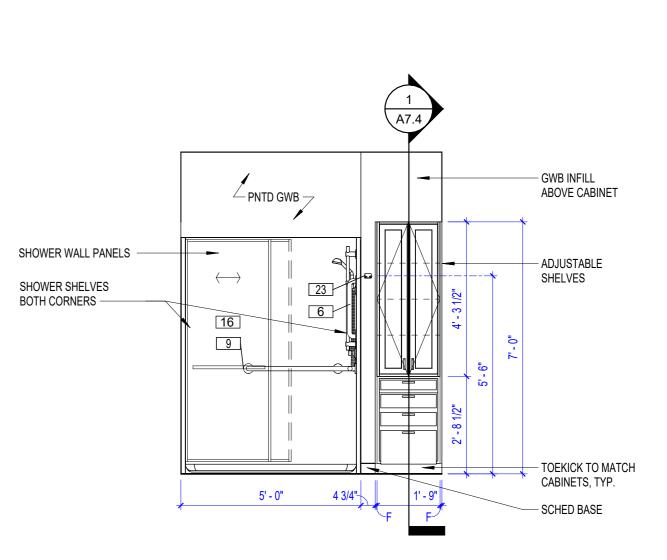
2' - 9" <u>F</u> 1 1/2"

- 24" DE

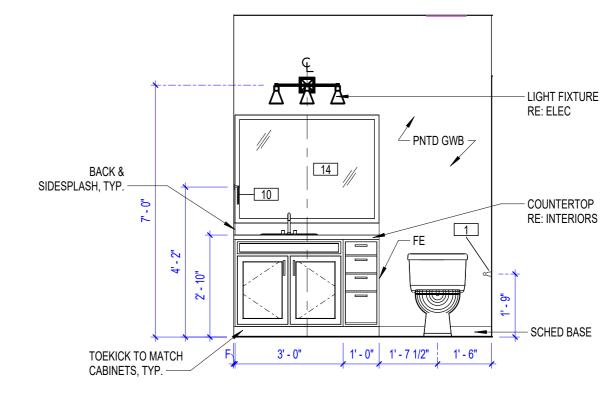
CABINET

2' - 2" F

3 UNIT B KITCHEN SINK 3/8" = 1'-0"

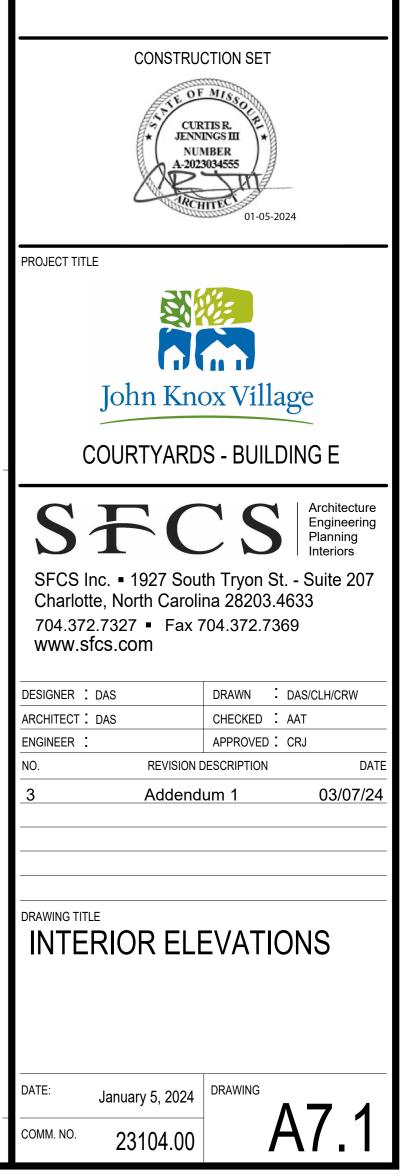


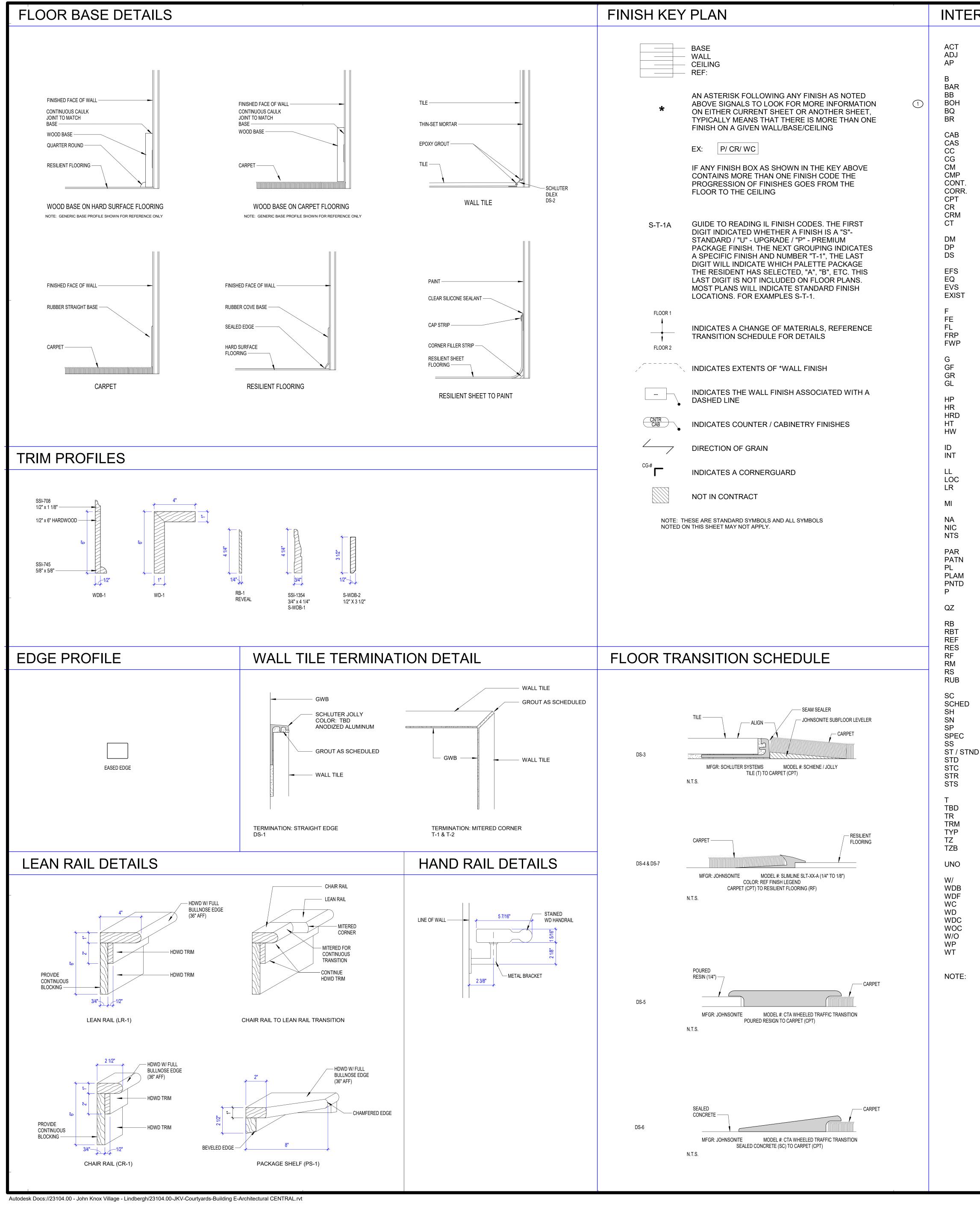




1 UNIT B BATH VANITY 3/8" = 1'-0"

- . PROVIDE BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS IN ALL ANSI TYPE B UNITS PER ANSI REQUIREMENTS. (ALL UNITS ARE TYPE B UNITS BESIDES 2029, WHICH IS A TYPE A UNIT)
- . PROVIDE BLOCKING AND GRAB BARS FOR 18" VERTICAL GRAB BAR AND WRAP AROUND GRAB BAR AT ALL MASTER BATHROOM SHOWERS.
- . PROVIDE GRAB BARS AT TIME OF CONSTRUCTION IN ANSI TYPE A (HC) UNIT PER ANSI REQUIREMENTS.





INTERIOR ABBREVIATIONS

ACOUSTICAL CEILING TILE ADJUSTABLE ACOUSTICAL PANEL

BLINDS BALLET BARRE BEADBOARD BACK OF HOUSE BANQUETTE BRICK

WOOD CUSTOM CABINET **RESIDENTIAL CASEWORK** CUBICLE CURTAIN CORNER GUARD CULTURED MARBLE TOILET COMPARTMENT CONTINUOUS/CONTINUED CORRIDOR CARPET CHAIR RAIL **CROWN MOULDING** CURTAIN

DECORATIVE METAL DEEP DIVIDER STRIP

ENTRY FLOOR SYSTEM EQUAL / EQUIPMENT ELEVATOR FINISH EXISTING

FILLER FINISHED END FLOOR FIBER REINFORCED PANEL FABRIC WRAPPED PANEL

GROUT GLASS FILM GRANITE GLASS

HARDIE PLANK HAND RAIL DOOR HARDWARE HEIGHT CABINET HARDWARE

INTERIOR DESIGN INTERIOR

LOWER LEVEL LOCKER LEAN RAIL

MIRROR

NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE

PARTITION PATTERN PLASTIC LAMINATE PLASTIC LAMINATE PAINTED PAINT

QUARTZ

RUBBER BASE RUBBER STAIR TREAD REFERENCE **RESINOUS FLOORING RESILIENT FLOORING** ROOM ROLLER SHADE

RUBBER FLOORING

SEALED CONCRETE SCHEDULED SHOWER CURTAIN STONE SPECIALITY WALL PANEL SPECIFICATION SOLID SURFACE STAIN STANDARD STAINED CONCRETE STAIR RISER STAIR STRETCHER

TILE TO BE DETERMINED **TOILET ROOM** TRIM TYPICAL TERRAZZO TERRAZZO BASE

UNLESS NOTED OTHERWISE

WITH WOOD BASE WOOD FLOORING WALL COVERING WOOD TRIM WOOD CEILING WALK OFF CARPET WITHOUT WALL PROTECTION WINDOW TREATMENT

THESE ARE STANDARD ABBREVIATIONS AND ALL ABBREVIATIONS NOTED ON THIS SHEET MAY NOT APPLY.

GENERAL ID NOTES

- REFER TO FINISH LEGEND FOR MATERIAL SPECIFICATIONS.
- REFER TO FINISH PLANS AND ELEVATIONS FOR EXTENTS OF 2. FLOOR PATTERNS, WALL FINISHES AND CABINET MATERIALS.
- ALL PRODUCTS / MATERIALS TO BE SOURCED FROM SAME LOTS TO ENSURE COLOR MATCH.
- ALL PRODUCTS INSTALLED PER MANUFACTURERS REQUIREMENTS 4. AND RECOMMENDATIONS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXTENTS OF MATERIALS IN THE FIELD WITH EXISTING CONDITIONS AND ADVISE THE ARCHITECT OF ANY CONFLICT
- CONTRACTOR TO COORDINATE MEP REQUIREMENTS WITH ALL 6 NEW/AND/OR REUSED EQUIPMENT/FIXTURES AND ADVISE THE ARCHITECT OF ANY CONFLICT.
- ALL PAINT TO BE EGGSHELL FOR WALLS U.N.O., FLAT FINISH FOR CEILING U.N.O., & SEMI-GLOSS FOR TRIM U.N.O. & ALL PAINT TO BE EPOXY FOR WALLS IN WET AREAS AS SPECIFIED ON FINISH PLANS U.N.O.
- CORNER GUARDS TO INSTALL FROM (FLOOR) (TOP OF BASE) TO UNDERSIDE OF CHAIR RAIL/LEAN RAIL ON SPLIT FINISH WALLS AND FULL HEIGHT ON WALLS WITH ONLY ONE FINISH. FIRE RATED CORNER GUARDS TO BE INSTALLED IN FIRE RATED WALLS. GC TO ADVISE OF ANY CONFLICTS.
- FINISHES NOTES IN CORRIDORS ARE TYPICAL CONDITIONS THAT ARE TO BE USED THROUGH REMAINING CORRIDOR.
- REFER TO DOOR SCHEDULE FOR DOOR TYPE, DOOR FINISH, JAMB 10 AND HARDWARE FINISH SPECIFICATION.
- CHAIR RAIL IS TO EXTEND AROUND ENTIRE PERIMETER OF A SPACE 11 IN ORDER TO CREATE A CLEAN SEPARATION FOR SPLIT WALL FINISHES.
- WHERE CABINET BASE MEETS HARD SURFACE FLOOR, INSTALL 12. QUARTER ROUND TO MATCH CABINET FINISH.
- 13. ALL ARCHITECTURAL MILLWORK AND RESIDENTIAL CASEWORK TO HAVE DECORATIVE HARDWARE AS NOTED IN FINISH LEGEND PER CAB OR PLAM SPECIFICATIONS.
- 14. TOE KICK SHALL MATCH CABINET FINISH.
- 15. CABINET CROWN MOLDING IS TO MATCH CABINET FINISH, U.N.O.
- 16. ALL EXPOSED END PANELS, BACK PANELS AND INTERIOR SIDE PANELS SHALL BE FINISHED TO MATCH CABINETS.
- 17. ALL EXPOSED INTERIOR OF CABINETS TO MATCH CABINET FACE.
- 18. REFER TO REFLECTED CEILING PLANS FOR EXTENT OF CROWN MOLDING.
- 19. ALL MECHANICAL, ELECTRICAL PANELS, DIFFUSERS & GRILLES ARE TO BE PAINTED TO MATCH ADJACENT FINISH IN ALL RESIDENT ROOMS AND PUBLIC/COMMON AREAS.
- ANY EXPOSED PIPING AND GRILLES TO MATCH ADJACENT WALL 20. FINISH.
- 21. FIELD VERIFY LOCATION OF ALL WIRING DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL OUTSIDE EDGES AND CORNERS OR MID WALL TERMINATION OF 22. TILE TO RECEIVE A DIVIDER/TRANSITION STRIP, REFERENCE FINISH LEGEND.
- 23. ALL CERAMIC TILE SHALL HAVE NECESSARY ACCESSORIES TO MATCH (SATIN NICKEL FINISH) U.N.O.
- CONTRACTOR TO DETERMINE THE APPROPRIATE HEIGHT 24. PRODUCT FOR THE TRANSITIONING MATERIALS HEIGHT IN ORDER TO HAVE A FLUSH TRANSITION.
- TRANSITIONS ARE TO BE USED WITH A CONCEALED RUBBER 25. SUBFLOOR LEVELER SYSTEM SCORED AT APPROPRIATE DEPTH FOR SMOOTH, FLUSH TRANSITION FROM ONE MATERIAL TO ANOTHER.
- HEAVY SEAM SEAL CARPET EDGE AT TRANSITION. 26.
- 27. REFER TO LEGEND FOR TRANSITION FINISH SELECTION.

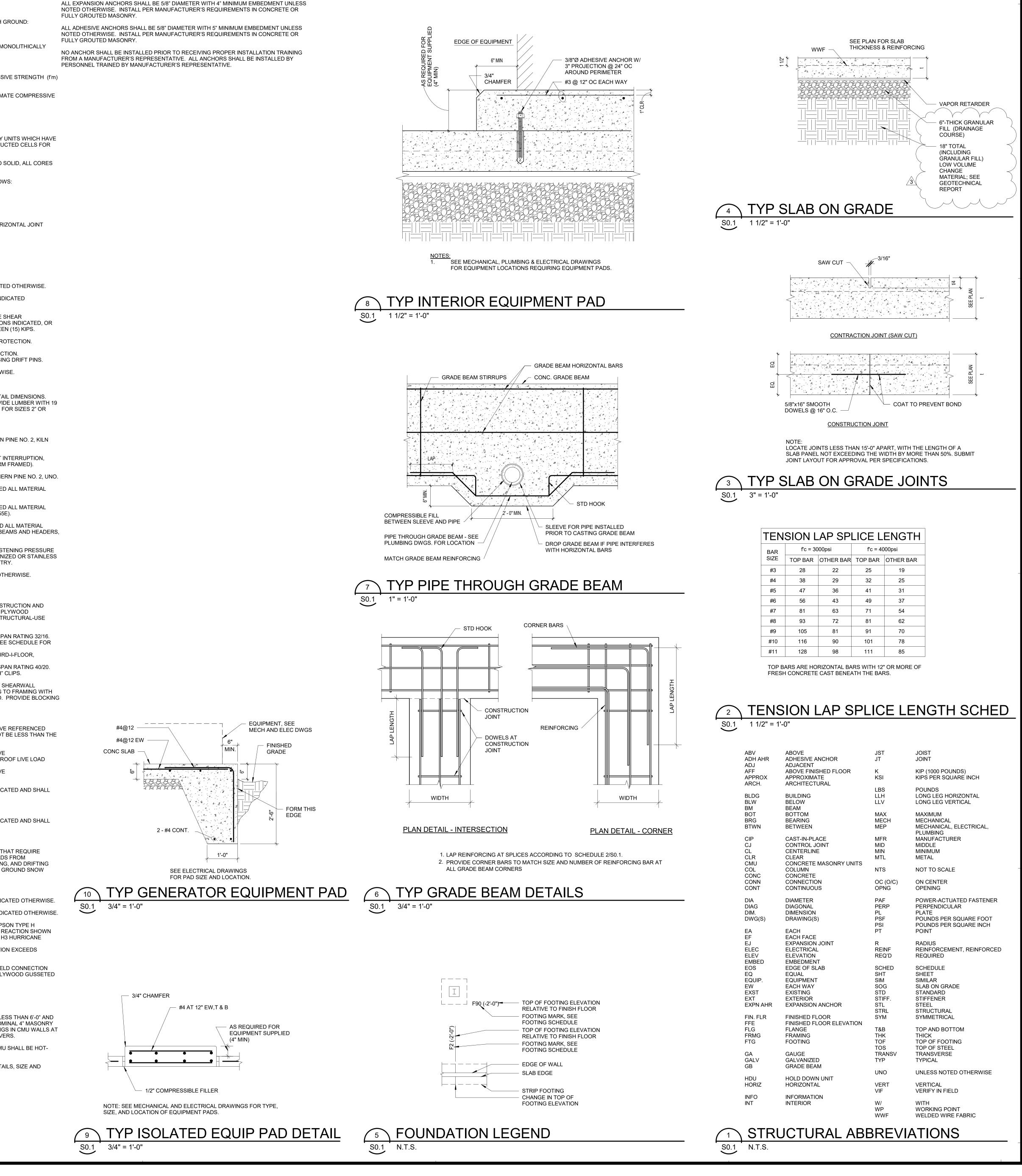
PROJECT NOTES

IF ADDITIONAL RESILIENT TILE FLOORING IS SELECTED IN CUSTOMIZATION WITHIN RESIDENT UNITS, REFER TO ARCH DRAWINGS FOR ADDITIONAL SOUND PROOFING REQUIREMENTS.

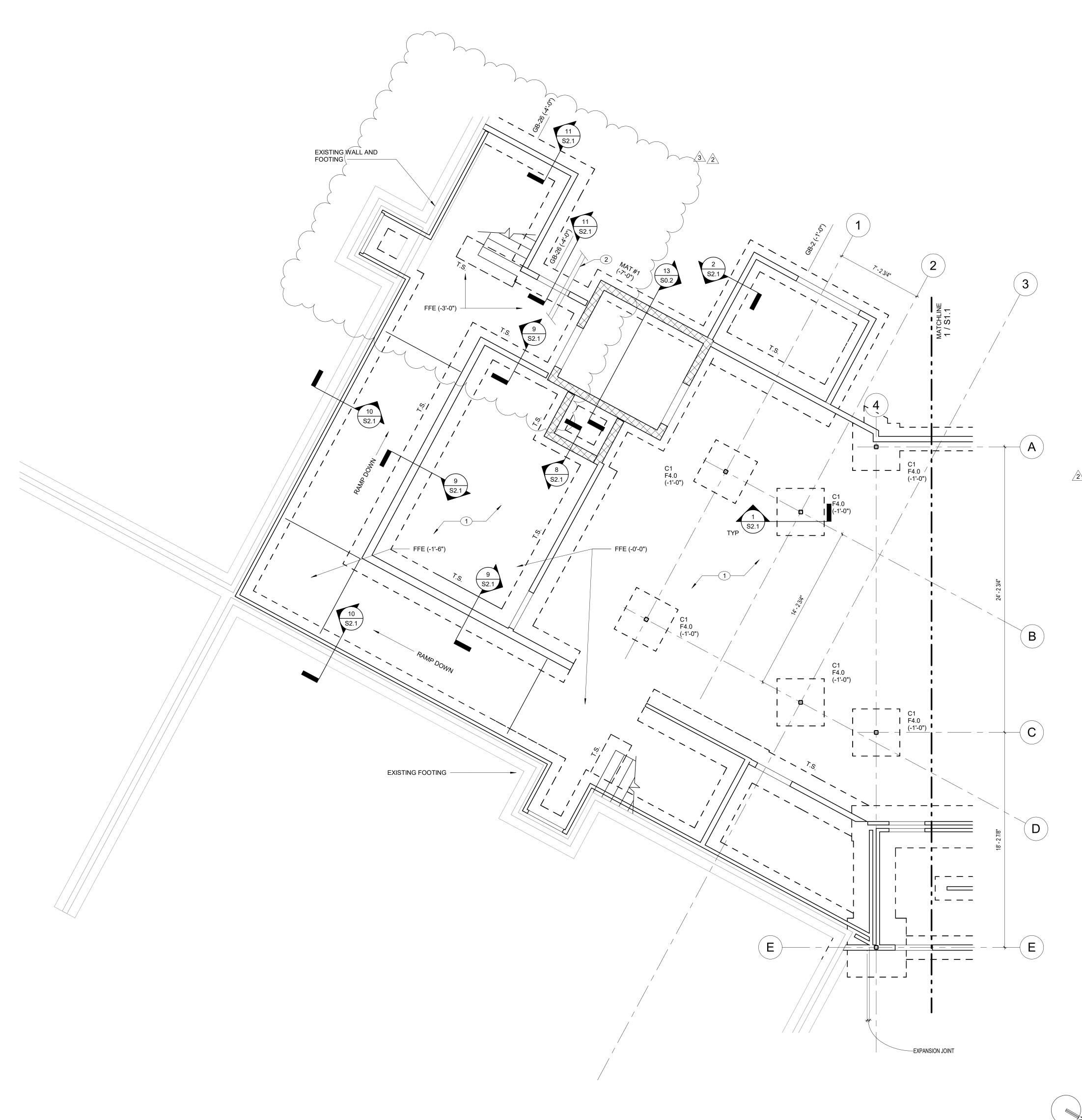


GENERAL STRUCTURAL NOTES BASIS OF DESIGN	PROVIDE THE FOLLOWING MINIMUM CONCRETE COVER FOR REINFORCING BARS CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" CONCRETE EXPOSED TO EARTH OR WEATHER: #6 AND LARGER: 2" #6 AND LARGER: 2"
DESIGN IS IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE (ASCE 7-16). DESIGN OF CONCRETE STRUCTURES IS BASED ON THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," EDITION AS REFERENCED	#5 AND SMALLER: 1-1/2 " CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS #11 AND SMALLER: ¾"
IN GOVERNING BUILDING CODE. DESIGN OF STRUCTURAL STEEL IS BASED ON THE REQUIREMENTS OF AISC 360	CONCRETE WALLS INTERSECTING CONCRETE PIERS SHALL BE CAST MONOLITHIC WITH PIERS, UNLESS INDICATED OTHERWISE.
"SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS," EDITION AS REFERENCED IN GOVERNING BUILDING CODE AND AISC MANUAL OF STEEL CONSTRUCTION, 14 TH EDITION. DESIGN OF MASONRY STRUCTURES IS BASED ON THE REQUIREMENTS OF TMS 402	CONCRETE MASONRY UNITS CONCRETE UNIT MASONRY SHALL DEVELOP AN INSTALLED COMPRESSIVE STREE
"BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND TMS 602 "SPECIFICATIONS FOR MASONRY STRUCTURES," EDITIONS AS REFERENCED IN GOVERNING BUILDING CODE.	AT 28 DAYS OF 2000 PSI. GROUT FOR CONCRETE UNIT MASONRY SHALL HAVE A MINIMUM ULTIMATE COMP
DESIGN OF WOOD STRUCTURES IS BASED ON THE REQUIREMENTS OF ANSI/AF&PA NDS NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND AWC SDPWS SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC." EDITION AS REFERENCED IN	STRENGTH OF 2000 PSI. GROUT SOLID ALL CELLS BELOW GRADE.
GOVERNING BUILDING CODE.	GROUT SOLID ALL CELLS BETWEEN FOOTINGS AND SLAB ON GRADE.
FLOOR LIVE LOAD CORRIDORS 100 PSF RESIDENTIAL 55 PSF (INCLUDES 15 PSF PARTITION LOAD) BALCONY 60 PSF	CORES THAT ALIGN VERTICALLY TO PROVIDE CONTINUOUS UNOBSTRUCTED CEL GROUTING AND REINFORCING STEEL PLACEMENT. WHERE MASONRY IS INDICATED TO BE FULLY GROUTED OR GROUTED SOLID, ALI
STORAGE AREAS 125 PSF UNIFORM LIVE LOADS HAVE BEEN REDUCED.	WITH AND WITHOUT REINFORCEMENT SHALL BE GROUTED.
ROOF LIVE LOAD: FLAT: 30 PSF. ROOF SNOW LOAD	BAR SIZE LAP LENGTH #3 18" #4 24" #5 30"
GROUND SNOW LOAD (Pg): 20 PSF FLAT-ROOF SNOW LOAD (Pf): 14 PSF+5 PSF RAIN ON SNOW SURCHARGE SNOW EXPOSURE FACTOR (Ce): 1.0	#6 43" ALL CONCRETE MASONRY UNIT WALLS SHALL HAVE CONTINUOUS HORIZONTAL J
THERMAL FACTOR (Ct): 1.0 SNOW LOAD IMPORTANCE FACTOR (I): 1.0 WIND DESIGN DATA	REINFORCEMENT AS SPECIFIED. <u>STRUCTURAL STEEL</u>
ULTIMATE WIND SPEED, Vult: 109 MPH (3-SECOND GUST) NOMINAL WIND SPEED, Vasd: 85 MPH (3-SECOND GUST) RISK CATEGORY: II	STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING: "W" SHAPES, BEAMS AND COLUMNS: ASTM A992. COLD-FORMED STRUCTURAL STEEL TUBING: ASTM A 500, GRADE C. OTHER SHAPES AND BARS: ASTM A 200, (Furz)
EXPOSURE CATEGORY: B INTERNAL PRESSURE COEFFICIENT (GCpi): +/- 0.18 COMPONENTS AND CLADDING DESIGN PRESSURES (ULTIMATE, FOR REFERENCE ONLY. SPECIFIC DESIGN PRESSURES FOR EACH	OTHER SHAPES, PLATES AND BARS: ASTM A36, (Fy=36KSI). ALL BOLTS SHALL BE ¾" DIAMETER, ASTM A325-N, TYPE 1, UNLESS NOTED OTHER
COMPONENT SHALL BE CALCULATED BY THE LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE COMPONENT'S DESIGN): ROOF PRESSURES:	MINIMUM WELDS SHALL BE 3/16" FILLET WELD ALL AROUND UNLESS INDICATED OTHERWISE.
EFFECTIVE WIND AREA (SF) ZONE 10 50 100 1 +16/-36 +16/-32 +16/-30 1' +16/-22 +16/-22 +16/-22	ALL BEAM CONNECTIONS SHALL BE DOUBLE-ANGLE OR SINGLE-PLATE SHEAR CONNECTIONS DESIGNED FOR THE MINIMUM FACTORED END REACTIONS INDICA WHERE NO REACTION IS INDICATED, DESIGNED FOR LESS THAN FIFTEEN (15) KIPS
2 +16/-50 +16/-43 +16/-40 3 +16/-68 +16/-53 +16/-47 WALL PRESSURES:	ALL STRUCTURAL STEEL BELOW GRADE SHALL HAVE 3" CONCRETE PROTECTION DO NOT USE THERMAL CUTTING OF STRUCTURAL STEEL DURING ERECTION.
EFFECTIVE WIND AREA (SF) ZONE 10 50 100 4 +22/-24 +20/-22 +19/-21 5 +22/-29 +20/-25 +19/-23	DO NOT ENLARGE UNFAIR HOLES IN MEMBERS BY BURNING OR BY USING DRIFT F PROVIDE CAP PL 3/8" AT ALL STEEL COLUMNS UNLESS NOTED OTHERWISE.
SEE ASCE 7 FOR ZONE LOCATIONS. EDGE DISTANCE "0.2h" = 8.6 FT. EARTHQUAKE DESIGN DATA SEISMIC IMPORTANCE FACTOR (I): 1.0	ROUGH CARPENTRY AND ENGINEERED LUMBER PRODUCTS LUMBER: NOMINAL SIZES ARE INDICATED, EXCEPT AS SHOWN BY DETAIL DIMENS PROVIDE DRESSED LUMBER, S4S, UNLESS NOTED OTHERWISE. PROVIDE LUMBE
RISK CATEGORY: II MAPPED SPECTRAL RESPONSE ACCELERATIONS: Ss: 9.9%g S1: 6.8%g	PERCENT MOISTURE CONTENT AT TIME OF DRESSING AND SHIPMENT FOR SIZES LESS IN NOMINAL THICKNESS, UNLESS NOTED OTHERWISE.
SITE CLASS: C DESIGN SPECTRAL RESPONSE ACCELERATIONS: SDS: 8.6%g SDI: 6.8%g SEISMIC DESIGN CATEGORY: B	DIMENSION LUMBER (SPECIES AND GRADE): LOAD BEARING STUDS: NO.1/ NO. 2 SPRUCE PINE FIR STRUCTURAL FRAMING AND SILL AND TOP PLATES: SOUTHERN PINE NO. DRIED
BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS DESIGN BASE SHEAR: 44 KIPS	ALL STUD-FRAMED WALLS SHALL BE FRAMED CONTINUOUS, WITHOUT INTERRUP FROM FOUNDATION TO FLOOR OR ROOF MEMBER BEARING (PLATFORM FRAMED
SEISMIC RESPONSE COEFFICIENT, Cs: 0.0132 RESPONSE MODIFICATION COEFFICIENT, R: 6.5 ANALYSIS PROCEDURE – EQUIVALENT LATERAL FORCE PROCEDURE	ALL 4x4 AND 6x6 WOOD POSTS SHALL BE PRESSURE-TREATED SOUTHERN PINE N
RAIN DESIGN DATA i=RAIN INTENSITY= 3.67 IN/HOUR R= RAIN DESIGN LOAD=19 PSF	PROPERTIES FOR I-LEVEL BY WEYERHAUSER: E=1900 KSI (1.9E). LAMINATED STRAND LUMBER (LSL) PRODUCTS SHALL MEET OR EXCEED ALL MAT
MECHANICAL EQUIPMENT LOADS SHOWN ARE DESIGN MINIMUMS. NO PROVISIONS HAVE BEEN MADE FOR MECHANICAL EQUIPMENT LOADS EXCEPT AS SHOWN. CONTRACTOR SHALL ESTABLISH AND COORDINATE ACTUAL LOADS OF ALL SELECTED EQUIPMENT.	PROPERTIES FOR TIMBERSTRAND BY WEYERHAUSER: E=1550 KSI (1.55E). PARALLEL STRAND LUMBER (PSL) PRODUCTS SHALL MEET OR EXCEED ALL MATE PROPERTIES FOR I-LEVEL BY WEYERHAUSER: E=2000 KSI (2.0E) FOR BEAMS AND
SUBMIT ALL SELECTED EQUIPMENT AND ALL ADDITIONAL EQUIPMENT REQUIREMENTS FOR APPROVAL. COORDINATE ALL EQUIPMENT LOADS WITH MATERIAL FABRICATORS.	AND E=1800 KSI (1.8E) FOR COLUMNS.
DESIGN INCLUDES NO PROVISION FOR FUTURE VERTICAL EXPANSION OF THE STRUCTURE. FUTURE HORIZONTAL CONSTRUCTION SHALL BE STRUCTURALLY INDEPENDENT AND SEPARATED BY A BUILDING JOINT.	PRESERVATIVE-TREATED (PT) LUMBER SHALL BE HOT DIPPED GALVANIZED OR S STEEL IN ACCORDANCE WITH SPECIFICATION 061000-ROUGH CARPENTRY. ALL NAILS SHALL BE CONSIDERED "COMMON NAILS" UNLESS NOTED OTHERWISE.
SPECIAL INSPECTIONS	WOOD SHEATHING
ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, CHAPTER 17. (SEE SPECIFICATIONS FOR DETAILED INSPECTION REQUIREMENTS):	CONSTRUCTION STANDARD: PS1 "US PRODUCT STANDARD FOR CONSTRUCTION INDUSTRIAL PLYWOOD" FOR PLYWOOD PANELS AND WITH AMERICAN PLYWOOD ASSOCIATION (APA) "PERFORMANCE STANDARD AND POLICIES FOR STRUCTURAL
 PREPARED FILL: SITE PREPARATION, FILL PLACEMENT, AND EVALUATION OF IN-PLACE DENSITY. CONCRETE CONSTRUCTION: MATERIALS, REINFORCING STEEL, FOUNDATION SUBGRADE AND PLACMENT OPERATIONS. 	PANELS." EXTERIOR WALL SHEATHING: APA RATED SHEATHING, EXPOSURE I, SPAN RATING INTERIOR WALL SHEATHING: APA RATED SHEATHING, EXPOSURE I, SEE SCHEDU
 MASONRY CONSTRUCTION: MATERIALS, STRENGTH, AND CONSTRUCTION OPERATIONS. WOOD CONSTRUCTION: FLOOR AND ROOF TRUSS FABRICATION. 	FLOOR SHEATHING: FLOOR SHEATHING: SPAN RATING APA RATED TONGUE-AND-GROOVE STURD-I-FLOOF EXPOSURE 1, SPAN RATING 24" OC.
5. STRUCTURAL STEEL CONSTRUCTION: MATERIALS AND ERECTION, INCLUDING CONNECTIONS, BOLTING AND WELDING.	ROOF SHEATHING:APA RATED SHEATHING, EXPOSURE I, SPAN RATINGPLYWOOD CLIPS:18-GAUGE, HOT-DIPPED GALVANIZED "H" CLIPS.ATTACH SHEARWALL WALL SHEATHING TO FRAMING AS INDICATED IN SHEARWAL
GENERAL REQUIREMENTS AND CONDITIONS WHERE A SECTION OR DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE	SCHEDULE. ATTACH REMAINING WALL, FLOOR, AND ROOF SHEATHING TO FRAMIN 8d COMMON NAILS @ 6" OC AT PANEL PERIMETER AND 12" OC IN FIELD. PROVIDE AT HORIZONTAL PANEL EDGES OF WALL SHEATHING.
CONDITIONS EVEN THOUGH NOT SPECIFICALLY MARKED ON THE PLANS. DIMENSIONS AND ELEVATIONS SHOWN FOR EXISTING CONSTRUCTION ARE BASED ON EXISTING CONSTRUCTION DRAWINGS AND ARE NOT FIELD-MEASURED. CONTRACTOR	PREFABRICATED WOOD TRUSSES TRUSSES SHALL BE DESIGNED FOR ALL LOADS AS REQUIRED BY ABOVE REFERE
SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND GEOMETRY AT EXISTING CONSTRUCTION. REPORT DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.	BUILDING CODE, INCLUDING WIND, SNOW AND SEISMIC BUT SHALL NOT BE LESS FOLLOWING MINIMUM LOADS: ROOF LIVE LOADS:
WHERE ATTACHMENTS (BOLTS, WELDS, STRAPS, ETC) ARE DENOTED AS "ON-CENTER" ALONG A MEMBER LENGTH, IT IS IMPLIED THAT AT LEAST ONE (1) ATTACHMENT IS PLACED AT THE BEGINNING AND END OF SUCH MEMBER (WITHIN 6", UNLESS NOTED OTHERWISE).	TOP CHORD, LIVE LOAD: VARIES, SEE "BASIS OF DESIGN" ABOVE BOTTOM CHORD, LIVE LOAD: 10 PSF, NONCONCURRENT WITH ROOF LIVE FLOOR LIVE LOADS: TOP CHORD, LIVE LOAD: VARIES, SEE "BASIS OF DESIGN" ABOVE
THE CONTRACTOR SHALL PROTECT THE STRUCTURE DURING CONSTRUCTION AGAINST EARTH PRESSURE, WIND AND OTHER FORCES UNTIL PERMANENT SUPPORTS ARE IN PLACE.	ROOF SUPERIMPOSED DEAD LOADS: DEAD LOADS SHALL BE COMPUTED FOR BUILDING MATERIALS AS INDICATED AND NOT BE LESS THAN:
<u>RELATED WORK SPECIFIED OR SHOWN ELSEWHERE</u> REFER TO PROJECT SPECIFICATIONS AND OTHER PROJECT DRAWINGS FOR RELATED	TOP CHORD, DEAD LOAD: 15 PSF BOTTOM CHORD, DEAD LOAD: 10 PSF FLOOR SUPERIMPOSED DEAD LOADS:
WORK SPECIFIED OR SHOWN ELSEWHERE INCLUDING BUT NOT LIMITED TO THE FOLLOWING: 1. PENETRATIONS, SLEEVES, OPENINGS. 2. INSERTS, EMBEDS, ANCHOR BOLTS AND ANCHORAGE FOR ATTACHMENT OF	DEAD LOADS SHALL BE COMPUTED FOR BUILDING MATERIALS AS INDICATED AND NOT BE LESS THAN: TOP CHORD, DEAD LOAD: 20 PSF BOTTOM CHORD, DEAD LOAD: 10 PSF
 NON-STRUCTURAL ITEMS. 3. SIZE AND LOCATION OF EQUIPMENT FOUNDATIONS AND PADS 4. ROOF CURBS FOR ROOF MOUNTED EQUIPMENT. 	TRUSS DESIGN SHALL ACCOUNT FOR SPECIAL LOADING CONDITIONS THAT REQU APPLICATION OF ADDITIONAL DISTRIBUTED AND CONCENTRATED LOADS FROM
 RETAINING WALLS, UTILITY STRUCTURES, PAVEMENT, WALKS AND OTHER STRUCTURES OUTSIDE THE BUILDING LINE. FLOOR DEPRESSIONS, FLOOR SLOPES, AND FLOOR SLOPES TO DRAIN. STAIRS, STAIR DETAILS AND STAIR DIMENSIONS. 	MECHANICAL EQUIPMENT, DORMERS, VALLEY FRAMING, OVER BUILDING, AND DR SNOW. DRIFTING SNOW LOADS SHALL BE COMPUTED BASED ON THE GROUND S LOAD LISTED ABOVE.
FOUNDATIONS	TRUSS BOTTOM CHORD DOES RECEIVE CONTINUOUS SHEATHING ROOF TRUSSES SHALL BE SPACED AT 24" O.C. MAXIMUM, UNLESS INDICATED OTH
STRIP AND SPREAD FOOTINGS ARE DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS FOUND IN THE "REPORT OF GEOTECHNICAL EXPLORATION; JKV COURTYARD E BUILDING" PREPARED BY KRUGER TECHNOLOGIES, INC DATED SEPTEMBER	FLOOR TRUSSES SHALL BE SPACED AT 16" O.C. MAXIMUM, UNLESS INDICATED OT ROOF TRUSSES SHALL BE CONNECTED TO BEARING PLATE WITH SIMPSON TYPE
25, 2023. KTI PROJECT NUMBER: 223164G. SPREAD FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF	HURRICANE TIES OR OTHER HOLD DOWN ANCHOR DEVICES FOR THE REACTION ON THE TRUSS SHOP DRAWINGS, BUT NOT LESS THAN ONE SIMPSON H3 HURRIC ANCHOR PER BEARING LOCATION, UNLESS NOTED OTHERWISE.
2500 PSF. THE PREPARED FOUNDATION BEARING SOILS SHALL NOT BE LEFT EXPOSED DURING INCLEMENT WEATHER OR OPEN AND EXPOSED LONGER THAN 24 HOURS. PLACE A 2-1/2"	MULTIPLE ANCHORS ARE ACCEPTABLE AT LOCATIONS WHERE REACTION EXCEED CAPACITY OF SINGLE CONNECTOR. ALL TRUSSES WHICH CANNOT BE SHIPPED WHOLE AND REQUIRE A FIELD CONNE
THICK UNREINFORCED CONCRETE PAD OVER BEARING SOILS IF EXCAVATION WILL BE OPEN MORE THAN 24 HOURS OR INCLEMENT WEATHER IS EXPECTED.	SHALL BE DESIGNED, DETAILED AND FABRICATED WITH BOLTED OR PLYWOOD GI JOINTS.
ALL FOUNDATIONS SHALL BE CENTERED UNDER SUPPORTED WALLS AND COLUMNS, UNLESS NOTED OTHERWISE. STRUCTURAL FILL MATERIAL AND COMPACTION PROCEDURES SHALL CONFORM TO THE	STEEL LINTELS AT BRICK AND CMU ALL LINTELS SHALL CONFORM TO ARCHITECTURAL HEAD DETAILS.
ABOVE-REFERENCED GEOTECHNICAL REPORT.	UNLESS NOTED OTHERWISE, PROVIDE ONE L4x3-1/2x1/4" FOR SPANS LESS THAN ONE L6x3-1/2"x3/8" FOR SPANS BETWEEN 6'-0" AND 11'-6" FOR EACH NOMINAL 4" M THICKNESS AS LINTELS FOR BRICK OPENINGS, AND OVER ALL OPENINGS IN CMU
	DOORS, DUCTS, RECESSED HEATING UNITS, PANELS, GRILLS OR LOUVERS. LINTELS SUPPORTING BRICK AND LINTELS SUPPORTING EXTERIOR CMU SHALL BI DIPPED GALVANIZED.
DESCRIPTION UNIT WEIGHT (P C F) F'C AT 28 DAYS (P S I)	
DESCRIPTIONUNIT WEIGHT (PCF) FCAT 28 DAYS (PST)FOOTINGS AND GRADE BEAMS150SLABS ON GRADE150EXTERIOR FLAT WORK150	SUBMIT SHOP DRAWINGS FOR APPROVAL SHOWING SCHEDULES, DETAILS, SIZE / LOCATION FOR ALL STEEL LINTELS.

EXPANSION & ADHESIVE ANCHORS



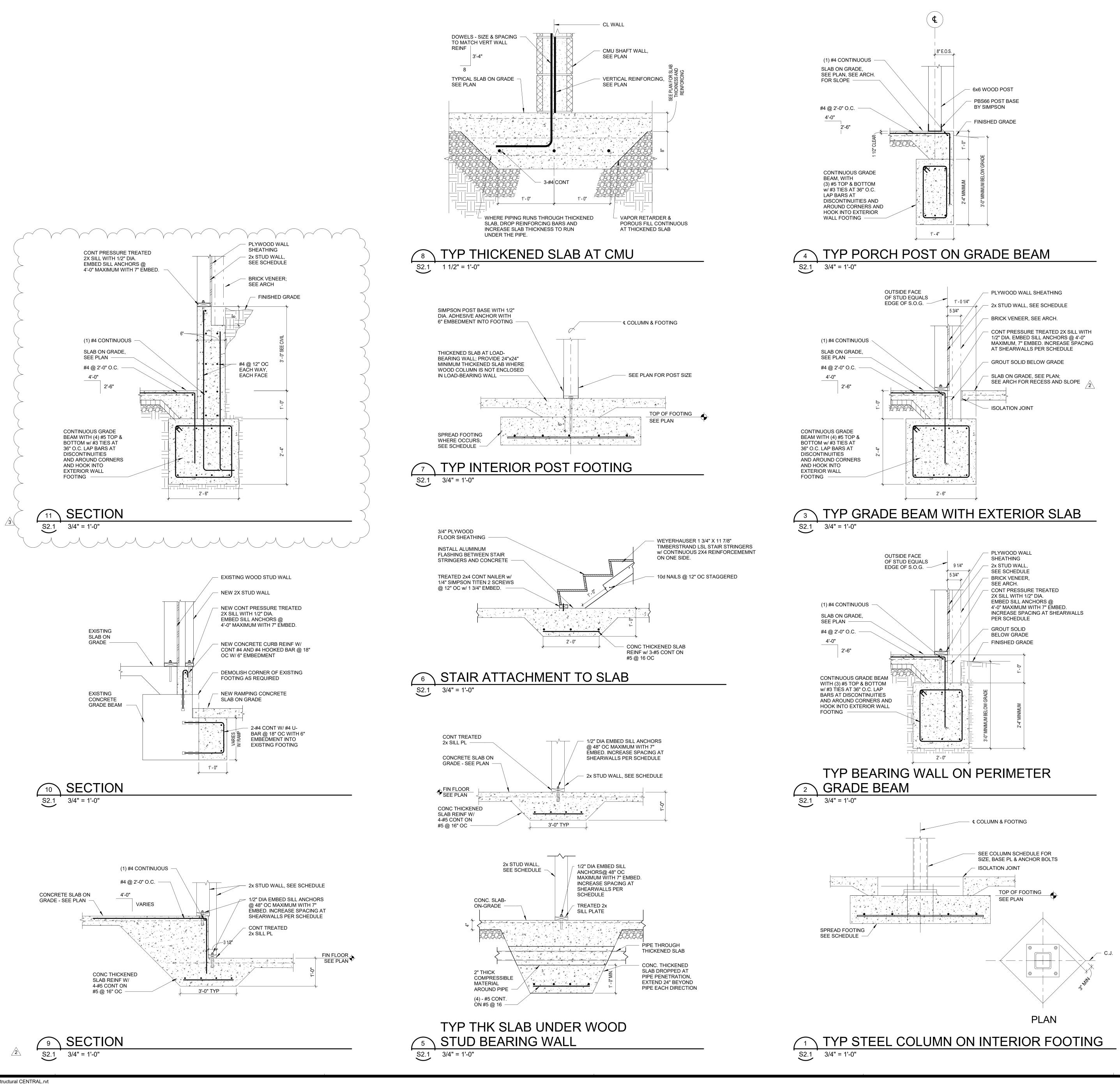
PROJECT TITLE		
John Knox Village COURTYARDS - BUILDING E		
SFCS Inc. • 1927 South Tryon St Suite 207 Charlotte, North Carolina 28203.4633 704.372.7327 • Fax 704.372.7369 www.sfcs.com		
DESIGNER : DAS DRAWN : BSW ARCHITECT : DAS CHECKED : BDT ENGINEER : LBF APPROVED : Approver NO. REVISION DESCRIPTION 3 ADDENDUM 1		
DRAWING TITLE GENERAL NOTES AND TYPICAL DETAILS		
DATE: January 5, 2024 DRAWING SO.1		

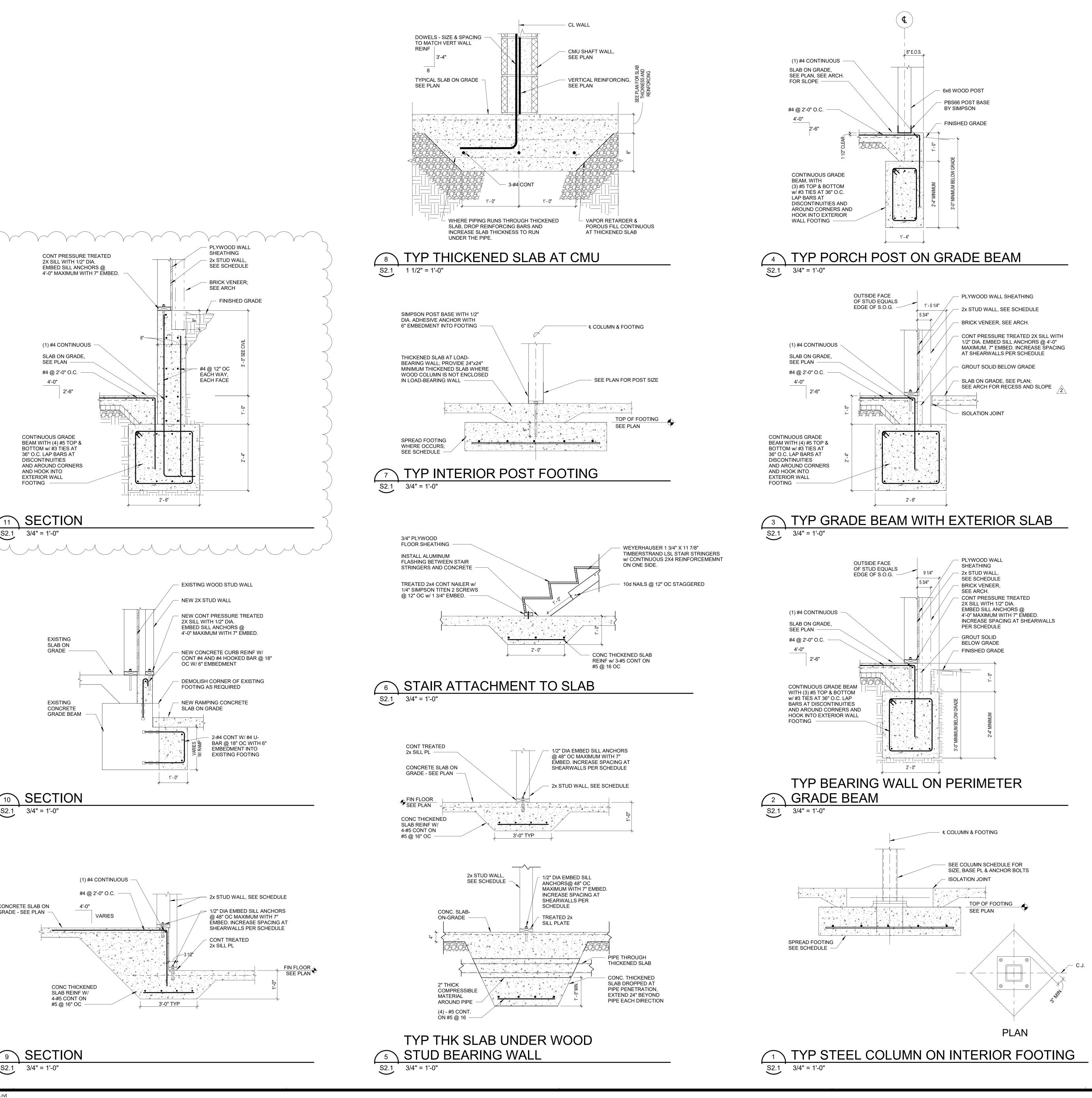


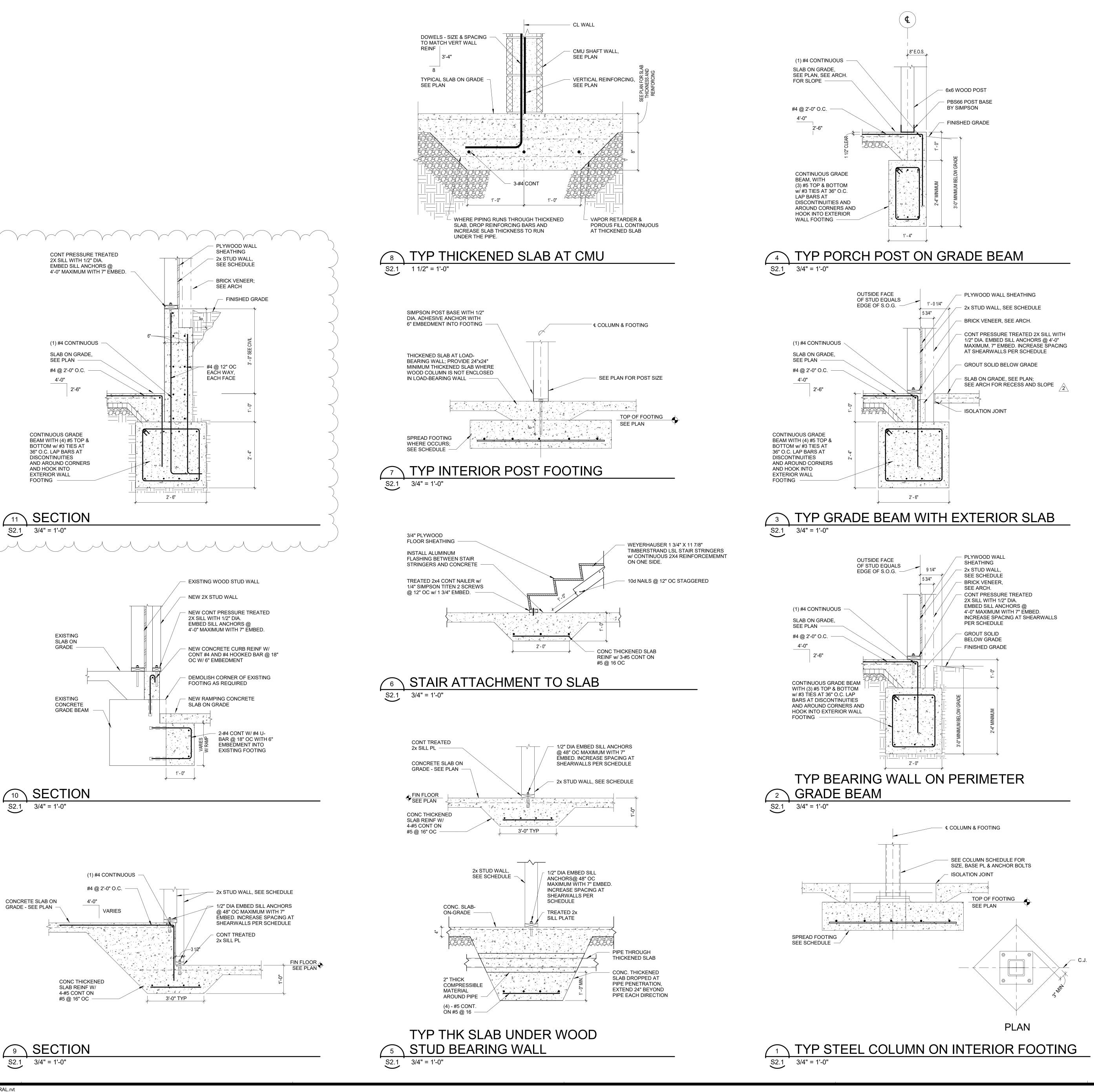


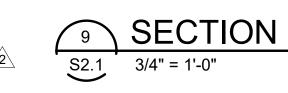
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- of the second	
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NORTH	
GENERAL NOTES	
	ONCRETE SLAB ELEVATION
= (+0'-0"), UNLESS NOTED 2. TOP OF FOOTING ELEVA REFERENCE FIRST FLOO	TION= (-1'-0") BELOW
OTHERWISE.	OR ELEVATION= (+11'-4") ABOVE
REFERENCE FIRST FLOO	DR, UNLESS NOTED COND FLOOR PLYWOOD ELEV=
4. TRUSS BEARING ELEV. A	AT VESTIBULE VARIES WITH AS REFERENCE FROM BUILDING
E SECOND FLOOR ELEV	
U.N.O.	EARWALL LOCATION. SEE S4.1
FOR SHEARWALL ELEVA SIMPSON HOLDDOWN A	TIONS AND LOCATIONS OF T EACH END OF SHEARWALL.
	OORDINATE ALL FLOOR ES WITH MEP, ADD HEADERS DE NECESSARY CLEARANCES.
8. SEE SECTION 6S0.3 FOR COLUMN CONNECTION.	WOOD BEAM TO STEEL
9. SEE 6S0.2 FOR BEARING	
10. BEAMS SHALL BE SUPF STUDS, UNLESS NOTED POST SCHEDULE.	OTHERWISE. SEE 7S0.2 FOR
11. "T.S." INDICATES THICK STAIR STRINGER.	ENED SLAB UNDER WALL OR
PLAN NOTES	
	AB ON GRADE ON VAPOR
6x6-W1.4xW1.4 WELDE	
	Y. SEE S0.1 AND PLUMBING GRADE BEAM TO MAINTAIN 8" TTOM OF PIPE.
CONSTR	UCTION SET
SSSS OF	F MISSOL
0	DSEY B. 72 % NACHT Farrocht
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PROJECT TITLE	
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SFCS Inc. • 1927 Sc Charlotte, North Carc 704.372.7327 • Fax www.sfcs.com DESIGNER : DAS ARCHITECT : DAS ENGINEER : LBF NO. REVISION 2 REV 1- PERMI	Drawn Architecture Engineering Planning Planning Interiors outh Tryon St Suite 207 Suite 207 olina 28203.4633 33 a 704.372.7369 Suite DRAWN BSW CHECKED BDT APPROVED Approver N DESCRIPTION DATE T COMMENTS 2/15/24
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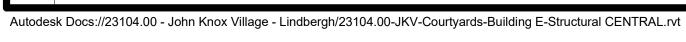
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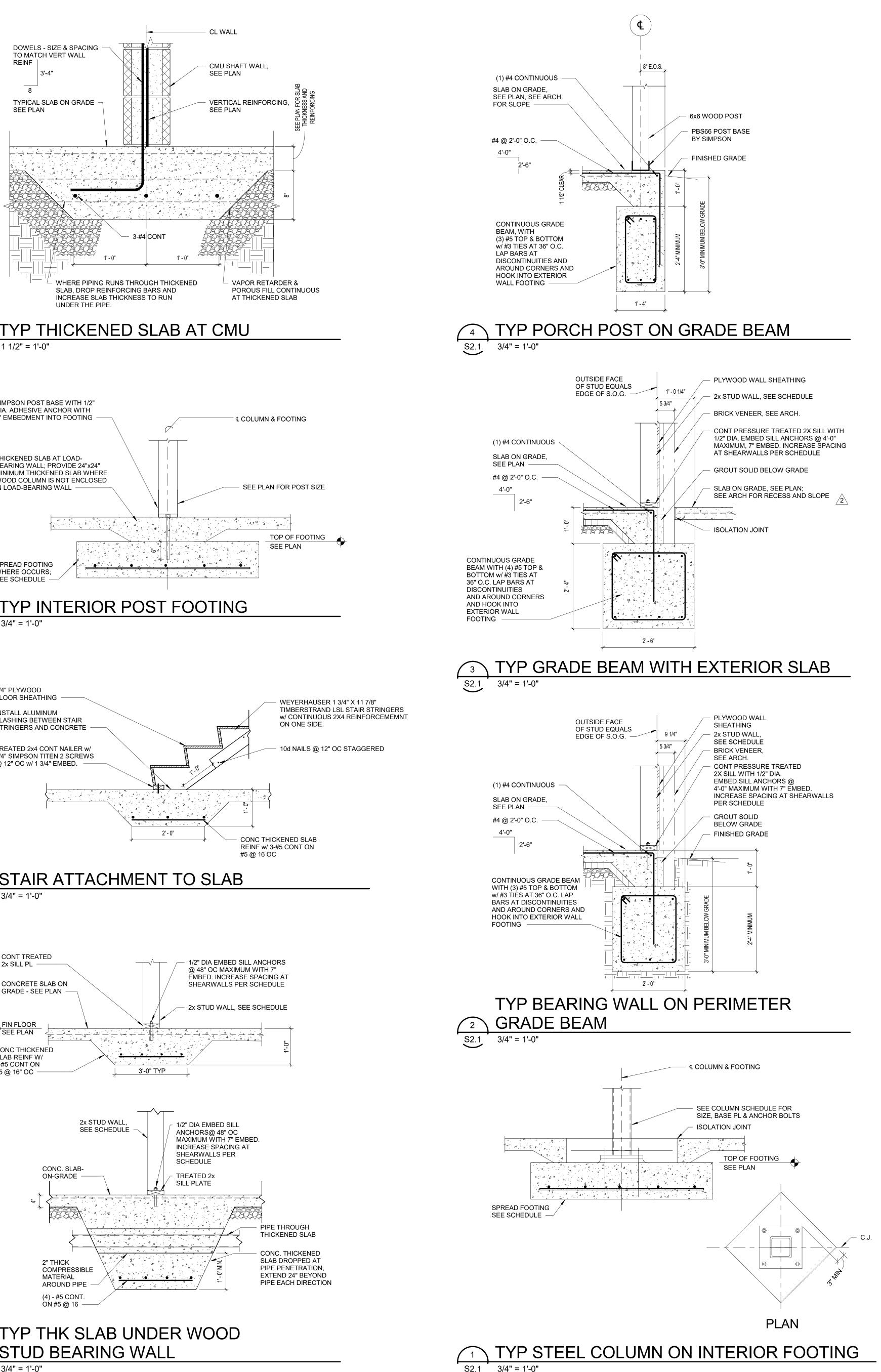














PLUMBING FIXTURE SCHEDULE

<u>TAG</u>	DESCRIPTION	MINIMUM <u>CW</u>	<u>MINIMUM</u> <u>HW</u>	<u>minimum</u> <u>Trap</u>	MINIMUM SOIL OR WASTE	MINIMU VENT
	WATER CLOSETS:	I	1	1		
<u>P-10</u>	GERBER "VIPER" MODEL 21-518 ELONGATED BOWL, ADA COMPLIANT, FLOOR MOUNTED, WHITE, TANK TYPE, 1.6 GPF BOLT CAPS AND WHITE CLOSED FRONT SEAT WITH COVER, WITH SLOW CLOSE STAINLESS STEEL CHECK HINGES AND ANGLE SUPPLY WITH WHEEL HANDLE STOPS.	1/2"	-	-	3"	1-1/2
<u>P-11</u>	GERBER "VIPER" MODEL 21-518 ELONGATED BOWL, ADA COMPLIANT, FLOOR MOUNTED, WHITE, TANK TYPE, 1.6 GPF BOLT CAPS AND WHITE OPEN FRONT SEAT WITH COVER, WITH SLOW CLOSE STAINLESS STEEL CHECK HINGES AND ANGLE SUPPLY WITH WHEEL HANDLE STOPS.	1/2"	-	-	3"	1-1/2
	LAVATORIES: PROVIDE COMPLETE UNDER LAVATORY ANTI-MICROBIAL WASTE AND WATER PIPING PROTECTION INSULATION KITS AS MANUFACTURERED BY PLUMBEREX SPECIALTY PRODUCTS, INC., OR TRUEBRO, INC. ON ALL HANDICAPPED LAVATORIES.					
<u>P-30</u>	LAVATORY BOWL: INTEGRAL WITH COUNTERTOP. SEE ARCHITECTURAL FINISH SPECIFICATIONS. FAUCET: PEERLESS MODEL P136LF-M SINGLE LEVER HANDLE, 1,5 GPM; BRUSHED NICKEL FINISH.	4 /01	4/01	1-1/4"	4.4/01	4.4/0
	ACCESSORIES: POP UP DRAIN.	1/2"	1/2"	1-1/4	1-1/2"	1-1/2
<u>P-31</u>	LAVATORY BOWL: AMERICAN STANDARD "OVALYN" MODEL 0496.221, WHITE, UNDERMOUNT BOWL 19-1/4" X 16-1/4". FAUCET: AMERICAN STANDARD "SELECTRONIC" MODEL 6055.105, BATTERY POWERED SENSOR FAUCET, 0.5 GPM, CHROME FINISH ACCESSORIES: GRID DRAIN, WATTS MODEL LFUSG-B-M2 POINT OF USE THERMOSTATIC MIXING VALVE CONFORMING TO ASSE 1070, WITH INTEGRAL CHECK VALVES. SET MAXIMUM OUTLET TEMPERATURE TO 110 DEGREES.	1/2"	1/2"	1-1/4"	1-1/2"	1-1/2
	SINKS: PROVIDE COMPLETE UNDER SINK ANTI-MICROBIAL WASTE AND WATER PIPING PROTECTION INSULATION KITS AS MANUFACTURERED BY PLUMBEREX SPECIALTY PRODUCTS, INC., OR TRUEBRO, INC. ON ALL HANDICAPPED SINKS.					
<u>P-40</u>	BASIN: ELKAY MODEL ELUH3220, STAINLESS STEEL, DOUBLE BOWL, UNDERMOUNT SINK. 31-1/4" WIDE X 1'-8" LONG X 7-7/8" DEEP. FAUCET: PEERLESS MODEL P6935LF, SINGLE HOLE, SINGLE LEVER HANDLE, PULL DOWN SPRAY, 1.5 GPM, CERAMIC CARTRIDGE, STAINLESS STEEL FINISH ACCESSORIES: BASKET STRAINER DRAIN ASSEMBLY. DO NOT INSTALL INCLUDED DECKPLATE.	1/2"	1/2"	1-1/2"	2"	1-1/2
<u>P-41</u>	(BIRCH UNIT E123, CEDAR UNIT E316) BASIN: ELKAY MODEL ELUHAD3118, STAINLESS STEEL, DOUBLE BOWL, ADA COMPLIANT, UNDERMOUNT SINK. 30-3/4" WIDE X 18-1/2" LONG X 5-1/2" DEEP. FAUCET: PEERLESS MODEL P6935LF, SINGLE HOLE, SINGLE LEVER HANDLE, PULL DOWN SPRAY, 1.5 GPM, CERAMIC CARTRIDGE, STAINLESS STEEL FINISH ACCESSORIES: BASKET STRAINER DRAIN ASSEMBLY. DO NOT INSTALL INCLUDED DECKPLATE.	1/2"	1/2"	1-1/2"	2"	1-1/2
<u>P-42</u>	MOP SINK: PROFLO MODEL PFMB2424, MOLDED STONE, INTEGRAL DRAIN. 24" WIDE X 24" LONG X 10" DEEP. FAUCET: ZURN MODEL Z843M1 SERVICE SINK FAUCET WITH VACUUM BREAKER AND INTEGRAL CHECK VALVES AND INTEGRAL STOPS. ACCESSORIES: HOSE AND HOSE BRACKET, MOP HANGER, ADJUSTABLE WALL BRACE, PAIL HOOK, STAINLESS STEEL BUMPERGUARDS ON ALL CURBS AND STAINLESS STEEL WALL GUARDS ON ALL ADJACENT WALLS.	1/2"	1/2"	3"	3"	1-1/2
<u>P-43</u>	BASIN: ELKAY MODEL ELUHAD3118, STAINLESS STEEL, DOUBLE BOWL, ADA COMPLIANT, UNDERMOUNT SINK. 30-3/4" WIDE X 18-1/2" LONG X 5-1/2" DEEP. FAUCET: PEERLESS MODEL P6935LF, SINGLE HOLE, SINGLE LEVER HANDLE, PULL DOWN SPRAY, 1.5 GPM, CERAMIC CARTRIDGE, STAINLESS STEEL FINISH ACCESSORIES: BASKET STRAINER DRAIN ASSEMBLY. DO NOT INSTALL INCLUDED DECKPLATE.	1/2"	1/2"	1-1/2"	2"	1-1/2
	SHOWERS/TUB/BATHING UNITS: SHOWERS SHALL HAVE A MAXIMUM FLOW RATE OF 2.5 GALLONS PER MINUTE. UNITS SHALL BE CONFIGURED LEFT-HAND AND RIGHT-HAND UNITS AS REQUIRED BY FLOOR PLAN LAYOUT. PROVIDE INLET CHECK STOPS ON ALL SHOWER VALVES THAT ARE CONNECTED TO HAND-HELD SHOWER WANDS WITH ON/OFF CAPABILITY.					
P-60	SURROUND: COMFORT DESIGNS MODEL XSS 6036 BF, ONE PIECE, GELCOAT/FIBERGLASS SHOWER MODULE WITH 1" THRESHOLD, GRAB BARS, SEMI-PERMANENT THRESHOLD AND T-SHAPED WATER STOPPER.					
	WATER STOPPER. SHOWER TRIM: KOHLER "BANCROFT" MODEL K-10583-4 SHOWER TRIM WITH METAL LEVER HANDLE AND SHOWER HEAD WITH KOHLER RITE-TEMP K-8304-KS PRESSURE-BALANCED MIXING SHOWER VALVE WITH INTEGRAL STOPS AND CHECK VALVES, KOHLER "BANCROFT" MODEL K-T10595-4 TRANSFER VALVE, GROHE MODEL 26077EN0 24 INCH SHOWER BAR WITH HAND HELD SHOWER AND 69 INCH HOSE, AND GROHE MODEL 28627EN0 SHOWER OUTLET ELBOW. ALL COMPONENTS TO BE BRUSHED NICKEL FINISH. PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES. DRAIN: PROVIDE 2" BRUSHED NICKEL FINISH SHOWER DRAIN.	1/2"	1/2"	2"	2"	1-1/
P <u>-61</u>	SURROUND: AQUARIUS MODEL G 6237 BF .75, ONE PIECE, ADA COMPLIANT, ROLL-IN, GELCOAT/FIBERGLASS SHOWER MODULE WITH .75" THRESHOLD, ADA GRAB BARS, FACTORY FOLD UP SEAT, SEMI-PERMANENT THRESHOLD AND T-SHAPED WATER STOPPER. SHOWER TRIM: KOHLER "BANCROFT" MODEL K-10583-4 SHOWER TRIM WITH METAL LEVER HANDLE AND SHOWER HEAD WITH KOHLER RITE-TEMP K-8304-KS PRESSURE-BALANCED MIXING SHOWER VALVE WITH INTEGRAL STOPS AND CHECK VALVES, KOHLER "BANCROFT" MODEL K-110595-4 TRANSFER VALVE, GROHE MODEL 26077EN0 24 INCH SHOWER BAR WITH HAND HELD SHOWER AND 69 INCH HOSE, AND GROHE MODEL 28627EN0 SHOWER OUTLET ELBOW. ALL COMPONENTS TO BE BRUSHED NICKEL FINISH. PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES. DRAIN: PROVIDE 2" BRUSHED NICKEL FINISH SHOWER DRAIN.	1/2"	1/2"	2"	2"	1-1/
<u>P-62</u>	BATHTUB: AMERICAN STANDARD "PRINCETON" MODEL 2390.202, WHITE, ACID RESISTANT PORCELAIN FINISH. TRIM: KOHLER "BANCROFT" MODEL K-T10581-4 BATH TRIM KIT WITH METAL LEVER HANDLE, SHOWER HEAD AND TUB SPOUT WITH KOHLER RITE-TEMP K-8304-KS PRESSURE-BALANCED MIXING SHOWER VALVE WITH INTEGRAL STOPS AND CHECK VALVES, KOHLER "BANCROFT" MODEL K-T10595-4 TRANSFER VALVE, GROHE MODEL 26077EN0 24 INCH SHOWER BAR WITH HAND HELD SHOWER AND 69 INCH HOSE, AND GROHE MODEL 28627EN0 SHOWER OUTLET ELBOW. ALL COMPONENTS TO BE BRUSHED NICKEL FINISH. PROVIDE ALL REQUIRED MATCHING MANUFACTURER ACCESSORIES. DRAIN: PROVIDE BRUSHED NICKEL FINISH TUB DRAIN ASSEMBLY WITH OVERFLOW.	1/2"	1/2"	1-1/2"	1-1/2"	1-1/
	MISCELLANEOUS:					
P-70	WASHING MACHINE CONNECTION BOX: UNIT SHALL BE RECESSED TYPE, BOX AND FACE PLATE SHALL BE CONSTRUCTED OF 16 GAUGE STEEL WITH EPOXY FINISH, OR HEAVY-DUTY PLASTIC ABS. UNIT SHALL BE FITTED WITH 2-INCH DRAIN CONNECTION WITH OVERFLOW, BOTTOM SUPPLY HOSE CONNECTIONS, AS REQUIRED, WATER HAMMER ARRESTORS CONFORMING TO ASSE 1010. BOXES LOCATED ON RATED CORRIDOR OR RATED UNIT SEPARATION WALL SHAL BE A FIRE-RATED BOX ASSEMBLY APPROVED FOR FIRE-RATED INSTALLATION.	1/2"	1/2"	2"	3"	1-1/2
P-71	ICE MAKER CONNECTION BOX: UNIT SHALL BE RECESSED TYPE, BOX AND FACE PLATE SHALL BE CONSTRUCTED OF 16 GAUGE STEEL WITH EPOXY FINISH, OR HEAVY-DUTY PLASTIC ABS. UNIT SHALL BE FITTED WITH CHROME PLATED SUPPLY VALVE. BOXES LOCATED ON RATED CORRIDOR OR RATED UNIT SEPARATION WALL SHALL BE A FIRE-RATED BOX ASSEMBLY APPROVED FOR FIRE-RATED INSTALLATION. MOUNT BOTTOM OF BOX ABOVE TRIM/BASEBOARD.	1/2"	-	-	-	-
WH	FREEZE PROOF, AUTOMATIC DRAINING CHROME-PLATED WALL HYDRANT EQUAL TO WOODFORD MODEL #65. MOUNTED 24" ABOVE FINISHED GRADE.	3/4"	-	-	-	-
TP	PROVIDE BRONZE TRAP PRIMER VALVE WITH AUTOMATIC VACUUM BREAKER COMPLYING WITH ASSE 1018 WITH 1/2" CONNECTIONS MATCHING PIPING SYSTEM. PROVIDE TRAP PRIMERS BY PRECISION PLUMBING PRODUCTS, INC.; JOSAM, MFG. CO.; ZURN INDUSTRIES INC.; SMITH MFG. CO; OR WATTS DRAINAGE.	1/2"	-	-	-	-
<u>PH</u>	ZURN Z1395 ROOF POST HYDRANT, NON FREEZE, WITH VACUUM BREAKER, 3/4" HOSE CONNECTION. DEPTH OF BURY TO BE BASED UPON 4 FEET SO THAT DRAIN PORT IS LOCATED BELOW ATTIC INSULATION IN CEILING SPACE OF ROOM BELOW. FIELD VERIFY DEPTH OF BURY PRIOR TO ORDERING.	3/4"	-	-	-	-
VHA	EQUAL TO ZURN Z1700 WATER HAMMER ARRESTOR.	3/4"				_
	RES SHALL BE PROVIDED WITH ALL ITEMS, ARTICLES, MATERIALS AND INCIDENTALS, AS REQUIRED, INCLUDING ALL LABOR NECESSARY FOR A COMPLETE PLUMBING INSTALLATION.	0/4				
. THE F	PLUMBING CONTRACTOR SHALL CLEAN ALL FIXTURES, POLISH ALL METAL PARTS, CHECK AND ADJUST ALL FITTINGS, FAUCETS AND VALVES. ALL OPERATING INSTRUCTIONS SHALL BE TURNED OVER	TO THE GENER/	AL CONTRACTO	R FOR PRESENT	ATION TO THE C	OWNER.
. PROV	IDE INDIVIDUAL STOPS ON ALL PLUMBING FIXTURES.					
. ALL L	AVATORY, SINK, LAUNDRY TUB, WATER COOLER AND SIMILAR FIXTURE TRAPS, INCLUDING THOSE MOUNTED IN CASEWORK, SHALL BE CHROME PLATED, CAST BRASS, MINIMUM 17-GAUGE, ADJUSTABL	E TYPE WITH C	LEANOUT PLUG			
5. PROV	IDE CHROME PLATED ANGLE STOPS WITH WHEEL HANDLES AT FIXTURE SUPPLY THROUGH WALLS, INCLUDING THOSE MOUNTED IN CASEWORK.					
	XPOSED SUPPLY PIPES, STOPS, FLEXIBLE RISERS, INCLUDING THOSE MOUNTED IN CASEWORK, SHALL HAVE A POLISHED CHROME PLATED FINISH AND BE OF THE SAME MANUFACTURER THROUGHOU	JT THE JOB.				
	XPOSED SUPPLY PIPES, STOPS, P-TRAP, AND ANY WASTE PIPE IN ADA ACCESSIBLE LOCATIONS SHALL HAVE ADA COMPLIANT UNDER-SINK PROTECTION.					
	IDE CHROME PLATED ESCUTCHEONS AT ALL FIXTURE SUPPLY AND WASTE PIPE PENETRATIONS THROUGH WALLS, INCLUDING THOSE MOUNTED IN CASEWORK.					
	ATER CLOSET FLUSHING MECHANISMS ON HANDICAP WATER CLOSETS SHALL BE INSTALLED ON THE "WIDE SIDE" OF EACH WATER CLOSET TO MAINTAIN ADA ACCESSIBILITY.					
	IDE INLET CHECK STOPS ON ALL FIXTURES (I.E. MOP SINKS, KITCHEN PRE-RINSE SPRAY UNITS, SHOWER VALVES, SPA BATHING UNITS AND SIMILAR FIXTURE(S) SUSCEPTIBLE TO BACKFLOW/CROSS C					
	IDE CONCEALED FIXTURE CARRIERS AND SUPPORTS OF PROPER TYPE AND DESIGN TO SUIT JOB CONDITIONS. PROVIDE CARRIERS BY J.R. SMITH MFG. CO.; ZURN INDUSTRIES, INC.; JOSAM MFG. CO.;	WADE DIVISION	I/TYLER PIPE.			
	BING FIXTURE COLORS SHALL BE SELECTED BY ARCHITECT/OWNER AT A LATER DATE FROM STANDARD FACTORY COLORS, UNLESS OTHERWISE NOTED TO BE DESIGNER COLOR IN SCHEDULE.					
	BING FIXTURES AND TRIM SPECIFIED IN THIS SCHEDULE ARE TO ESTABLISH A STANDARD LEVEL OF QUALITY. OTHER MANUFACTURERS MAY BE CONSIDERED EQUAL. SEE LISTINGS BELOW FOR SOM D BELOW MAY ALSO BE CONSIDERED WITH WRITTEN APPROVALS OBTAINED FROM ARCHITECT AND/OR ENGINEER PRIOR TO TEN DAYS BEFORE BIDS ARE DUE.	E MANUFACTU	RERS CONSIDEF	RED EQUALS. OT	HER MANUFACT	TURERS N
A. <u>V</u>	ITREOUS CHINA PLUMBING FIXTURES: AMERICAN STANDARD, SLOAN, KOHLER, PROFLO, ZURN					
_	IOP SINKS, LAUNDRY TUBS: FIAT, E.L. MUSTEE, PROFLO, STERN WILLIAMS					

B. MOP SINKS, LAUNDRY TUBS: FIAT, E.L. MUSTEE, PROFLO, STERN WILLIAMS

C. STAINLESS STEEL SINKS: ELKAY, DAYTON, JUST, PROFLO

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D. FAUCETS, SHOWER VALVES AND TRIM, FLUSH VALVES: AMERICAN STANDARD, KOHLER, SLOAN, ELKAY, MOEN, T&S BRASS, DELTA, CHICAGO, PROFLO

E. SHOWER AND TUBS: COMFORT DESIGNS, BEST BATH, AQUA BATH, AQUARIUS, AMERICAN STANDARD, KOHLER, AQUATIC (LASCO)

14. PROVIDE SHOP DRAWING/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED ABOVE IN PLUMBING FIXTURE SCHEDULE.

15. MINIMUM SIZES IN SCHEDULE ABOVE REPRESENT MINIMUM PLUMBING FIXTURE CONNECTIONS ALLOWED AND DOES NOT REFLECT SPECIAL SITUATIONS SUCH AS WET VENTING, WASTE STACK VENTS, COMBINATION WASTE AND VENT SYSTEMS, ETC. REFER TO PLANS AND/OR RISER DIAGRAMS FOR PIPE SIZES AND ADDITIONAL INFORMATION.

PLUMBING DRAINS/CLEANOUT SCHEDULE

PROVIDE S	HOP DRAWING/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED BELOW.
	<u>CLEANOUTS:</u> CLEANOUTS SHALL BE LINE SIZE UP TO 4". FOR PIPE SIZES LARGER THAN 4" PROVIDE A 4" CLEANOUT, WHERE ALLOWED BY CODE AND AUTHORITY HAVING JURISDICTION. ALL EXTERIOR AND INLINE CLEANOUTS SHALL BE TWO-WAY.
<u>CO</u>	EXPOSED HORIZONTAL OR VERTICAL CLEANOUT IN PIPING EXPOSED OR CONCEALED ABOVE ACCESSIBLE CEILINGS.
FCO	 (REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISH INFORMATION. PROVIDE CLEANOUTS AS DESCRIBED BELOW.) 1. WHERE SHEET VINYL FLOORING SIMILAR TO ALTRO, PROTECTALL AND ETC. IS INSTALLED, PROVIDE WATTS MODEL CO-200-RFC7 FLOOR CLEANOUT WITH SURFACE MEMBRANE CLAMP. 2. FOR AREAS WHERE CARPET WILL BE INSTALLED PROVIDE ROUND ADJUSTABLE CLEANOUT WITH CARPET MARKER. 3. BACK OF HOUSE AREAS (I.E. KITCHEN, UTILITY ROOMS, LAUNDRY ROOMS AND SIMILAR SPACES) WHERE TILE FLOORS ARE TO BE INSTALLED, PROVIDE SQUARE ADJUSTABLE CLEANOUT WITH STAINLESS STEEL COVER. 4. IN PUBLIC AREAS (I.E. DINING ROOMS, CORRIDORS, OFFICES, CONFERENCE ROOMS AND SIMILAR SPACES) WHERE TILE FLOORS ARE TO BE INSTALLED, PROVIDE SQUARE ADJUSTABLE CLEANOUT WITH RECESS TILE COVER. 5. IN AREAS SUBJECT TO TRAFFIC (I.E. PARKING GARAGES, PARKING SPACES AND SIMILAR SPACES) PROVIDE HEAVY DUTY/TRAFFIC RATED CLEANOUT COVER.
<u>GCO</u>	CLEANOUT TO GRADE WITH HEAVY DUTY ACCESS COVER CAST IN A 12" X 12" X 4" THICK CONCRETE PAD. (PAD MAY BE ELIMINATED IN POURED CONCRETE SIDEWALKS, DRIVEWAYS, PATIOS, ETC.)
<u>WCO</u>	PROVIDE CLEANOUT IN VERTICAL PIPE WITH STAINLESS STEEL ACCESS COVER. (WHERE PIPES ARE CONCEALED IN WALLS OR CHASES.)
	ROOF/OVERFLOW DRAINS: ACCEPTABLE MANUFACTURERS: ZURN, WATTS, JOSAM, JAY R. SMITH, FROET INDUSTRIES.
<u>RD</u>	ROOF DRAIN - EQUAL TO ZURN 100. DRAIN SHALL HAVE DURA-COATED CAST IRON BODY WITH POLY-DOME, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, SUMP RECEIVER, UNDERDECK CLAMPING DEVICE, EXTENSION COLLAR TO SUIT THICKNESS OF INSULATION.
<u>OD</u>	OVERFLOW DRAIN - EQUAL TO ZURN Z100-W2. DRAIN SHALL HAVE DURA-COATED CAST IRON BODY WITH POLY-DOME, INTERNAL OVERFLOW WATER DAM, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, SUMP RECEIVER, UNDERDECK CLAMPING DEVICE, EXTENSION COLLAR TO SUIT THICKNESS OF INSULATION.
<u>ODS</u>	OVERFLOW DISCHARGE SPOUT - EQUAL TO FROET INDUSTRIES MODEL LPS, OVERFLOW DISCHARGE SPOUT, STAINLESS STEEL FRAME WITH STAINLESS STEEL HINGED STRAINER.
<u>FD-1</u>	(GENERAL PURPOSE, BACK OF HOUSE, CONCRETE FLOORS) - FLOOR DRAIN EQUAL TO ZURN ZN415B. DURA-COATED CAST IRON BODY WITH INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS. TYPE "B" ROUND NICKEL BRONZE STRAINER; 5" STRAINER FOR 2" OUTLET, 6" STRAINER FOR 3" OUTLET AND 8" STRAINER FOR 4" SEEPAGE SLOTS. TYPE "B" ROUND NICKEL BRONZE STRAINER; 5" STRAINER FOR 2" OUTLET, 6" STRAINER FOR 3" OUTLET AND 8" STRAINER FOR 4" OUTLET.
<u>FS-1</u>	(TILE FLOORS, CONCRETE FLOORS) - FLOOR SINK - EQUAL TO ZURN ZN1900. 4" BOTTOM OUTLET, CAST-IRON BODY, ANTI- SPLASH INTERIOR AND SEDIMENT BUCKET, NICKEL BRONZE 1/2 GRATE, 12" SQUARE BY 6" DEEP.

EQUIPMENT SCHEDULE

	DRAWING/SUBMITTAL AND OPERATIONS MANUAL FOR ALL ITEMS LISTED BELOW. S FOR ALL ITEMS LISTED IN THIS SCHEDULE.
WTR HTR-1 WTR HTR-2	WATER HEATER - EQUAL TO A.O. SMITH MODEL NO. BTH-250 NATURAL GAS FIRE TANK LINING AND CONDENSATE NEUTRILIZING KIT. HEATER TO HAVE 100 GALLO RECOVERY CAPACITY OF 327 GPH AT 88°F TEMPERATURE RISE. 250 CFH INPUT CONNECTION.
<u>ET-1</u>	THERMAL EXPANSION COMPENSATOR - EQUAL TO AMTROL ST-25V-C, ASME RAT
<u>TMV-1</u>	THERMOSTATIC MIXING VALVE - EQUAL TO LEONARD VALVE "NUCLEUS" MODEL PRESSURE LOSS, 200 PSIG MAXIMUM OPERATING PRESSURE, TEMPERATURE OF ABILITY TO CONTROL TEMPERATURE +/-2°F OF SETPOINT, PROVIDE WALL MOUN CONNECTION.
<u>SP-1</u> <u>SP-2</u>	ELEVATOR SUMP PUMP - EQUAL TO STANCOR SE-50 ELEVATOR SUMP PUMP, 1/2 WATER LEVEL PROBE AND CONTROL PANEL.
<u>BFP-1</u> <u>BFP-2</u>	BACKFLOW PREVENTER - EQUAL TO ZURN MODEL NO. 975XL3 WITH 2" CONNECT ASSEMBLY, BALL VALVES, AND WYE STRAINER ON INLET SIDE OF VALVE.
<u>CP-1</u> <u>CP-2</u>	HOT WATER RECIRCULATION PUMP - EQUAL TO BELL AND GOSSETT ECOCIRC M CAPACITY OF 25 GPM @ 25 FT/HEAD, 1/2 HP, 208V, 1 PHASE, STAINLESS STEEL C

THAN 4" PROVIDE A 4" CLEANOUT, WHERE INE CLEANOUTS SHALL BE TWO-WAY. ED ABOVE ACCESSIBLE CEILINGS. E CLEANOUTS AS DESCRIBED BELOW.) INSTALLED, PROVIDE WATTS MODEL CLEANOUT WITH CARPET MARKER. SIMILAR SPACES) WHERE TILE FLOORS ILESS STEEL COVER. DOMS AND SIMILAR SPACES) WHERE TILE H RECESS TILE COVER. SIMILAR SPACES) PROVIDE HEAVY THICK CONCRETE PAD. (PAD MAY BE WHERE PIPES ARE CONCEALED IN WALLS M, JAY R. SMITH, FROET INDUSTRIES. BODY WITH POLY-DOME, COMBINATION AMPING DEVICE, EXTENSION COLLAR TO CAST IRON BODY WITH POLY-DOME. RAVEL GUARDS, SUMP RECEIVER, LATION. FLOW DISCHARGE SPOUT, STAINLESS

DIRECTION OF FLOW

PIPE TURNING UP

PIPE TURNING DOWN

BRANCH CONNECTION - TOP

BRANCH CONNECTION - BOTTOM

BRANCH CONNECTION - SIDE

SERVICE VALVE (BALL OR GATE)

SERVICE VALVE (BUTTERFLY)

CHECK VALVE

DI-ELECTRIC UNION

PIPE CAP OR BLIND FLANGE

PRESSURE REDUCING VALVE

GAS SHUT-OFF VALVE

GAS SOLENOID VALVE

CONNECT NEW TO EXISTING

POINT OF DISCONNECTION

COLD WATER PIPING

SANITARY SEWER PIPING

ROOF DRAIN STORM PIPING

GREASE WASTE PIPING

NATURAL GAS PIPING

PIPE REFERENCE

OVERFLOW DRAIN STORM PIPING

VENT PIPING

FLEXIBLE PIPE CONNECTION OR JOINT

HOSE BIBB OR FREEZEPROOF WALL HYDRANT

OUTLETS/FIXTURE STOPS (GAS, AIR, VACUUM, OXYGEN)

HOT WATER SUPPLY (NUMBER DENOTES TEMPERATURE; NO

HOT WATER RETURN (NUMBER DENOTES TEMPERATURE; NO

NUMBER INDICATES 120°F TEMPERATURE SYSTEM)

NUMBER INDICATES 120°F TEMPERATURE SYSTEM)

/. PROVIDE EQUIPMENT TAGS PER

RED ASME WATER HEATER WITH GLASS LLON NOMINAL STORAGE CAPACITY WITH UT RATING; 120V ELECTRICAL

RATED, 10.3 GALLON CAPACITY. EL NV-200-LF, 115 GPM AT 10 PSIG E OUTLET RANGE OF 65°F - 180°F, WITH

DUNTING BRACKET. 120V ELECTRICAL 1/2 HP, 120V, 1 PHASE. PROVIDE WITH

ECTIONS. PROVIDE WITH AIR GAP

C MODEL 55-45, VARIABLE SPEED WITH L CONSTRUCTION.

PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND AAV AD AFF

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= = = = =

_____ RD _____

_____OD_____

GW

_____ G _____

D-DWV W-WATER 8 S-STORM

G - GAS

-RISER NUMBER

AIR ADMITTANCE VALVE AREA DRAIN ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION

AFG

AHJ

BFP

BTUH

CFH

CLG CO

CW

DD

DN

ΕA

ΕT

ΕX

FCO

FD FFE

FI FT

FU

GAL

GCO

GPD

GPH

GW

HB

HD

HP

HTR

HW

KW

MIN

NC

NO

OD

PD

PRV

PVC

PSI

RAC

RBF

RD

SD

SF

SP

SS

S/S

TD

TMV

VTR

W

WC

WCO

WH

WHA WTR

TP

SH

SEP

HWR

GPM

DWV

CP

BP

BACKFLOW PREVENTER BOOSTER PUMP BRITISH THERMAL UNIT/HOUR CUBIC FEET PER HOUR CEILING

CLEANOUT CIRCULATION PUMP COLD WATER DECK DRAIN DOWN

DRAINAGE, WASTE AND VENT EACH EXPANSION TANK

EXISTING FAHRENHEIT FLOOR CLEANOUT FLOOR DRAIN

FINISHED FLOOR ELEVATION FLOOR FEET FIXTURE UNIT

GAS GALLON GRADE CLEANOUT GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE GREASE WASTE

HOSE BIBB HEAD HORSEPOWER HEATER HOT WATER

HOT WATER RETURN INVERT ELEVATION

KILOWATT LAVATORY

MINIMUM NORMALLY CLOSED

NORMALLY OPEN OVERFLOW DRAIN

PARKING DRAIN PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH POLYVINYL CHLORIDE

ROUTE ABOVE CEILING ROUTE BELOW FLOOR ROOF DRAIN

STORM DRAIN SEWAGE EJECTOR PUMP SQUARE FEET SHOWER SUMP PUMP SANITARY SEWER

SOME SYMBOLS ABOVE MAY BE SHOWN WITH DOUBLE LINE PIPING IN LIEU OF SINGLE LINE PIPING AND MAY NOT APPEAR AS INDICATED ABOVE. THESE SYMBOLS WILL BE NOTED ON PLANS WHERE APPLICABLE.

STAINLESS STEEL TRENCH DRAIN THERMOSTATIC MIXING VALVE TRAP PRIMER

VENT VENT THRU ROOF

WASTE WATER COLUMN

WALL CLEANOUT

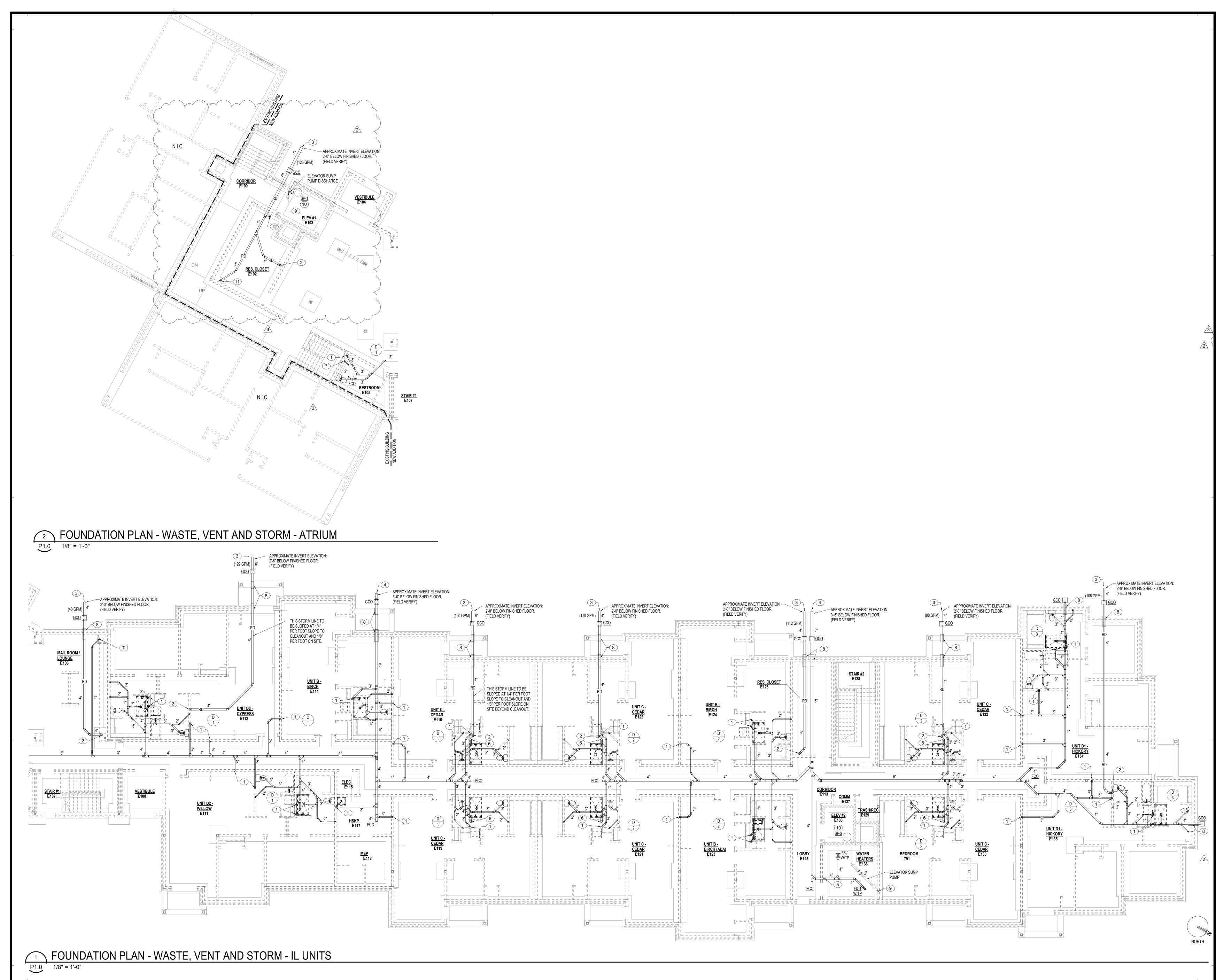
WALL HYDRANT WATER HAMMER ARRESTOR WATER

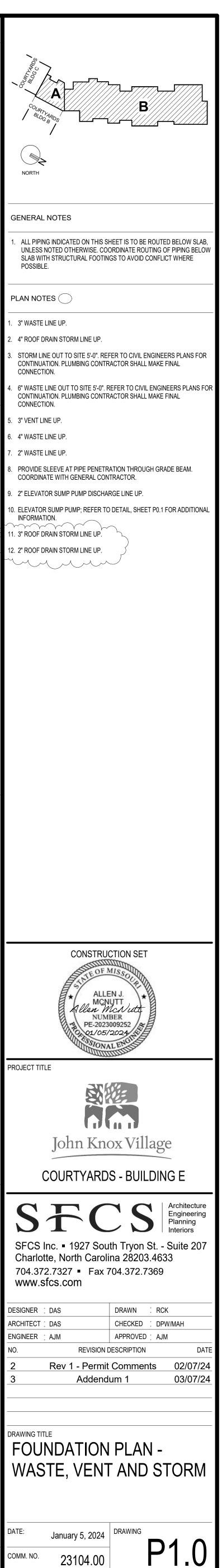
THESE SYMBOLS AND ABBREVIATIONS ARE PLUMBING DEPARTMENT STANDARDS AND MAY NOT NECESSARILY BE APPLICABLE TO, OR APPEAR ON THESE DRAWINGS. HOWEVER, WHERE THESE SYMBOLS DO OCCUR ON THE DRAWINGS, THE ITEM SHALL BE PROVIDED AND INSTALLED. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ABBREVIATIONS.

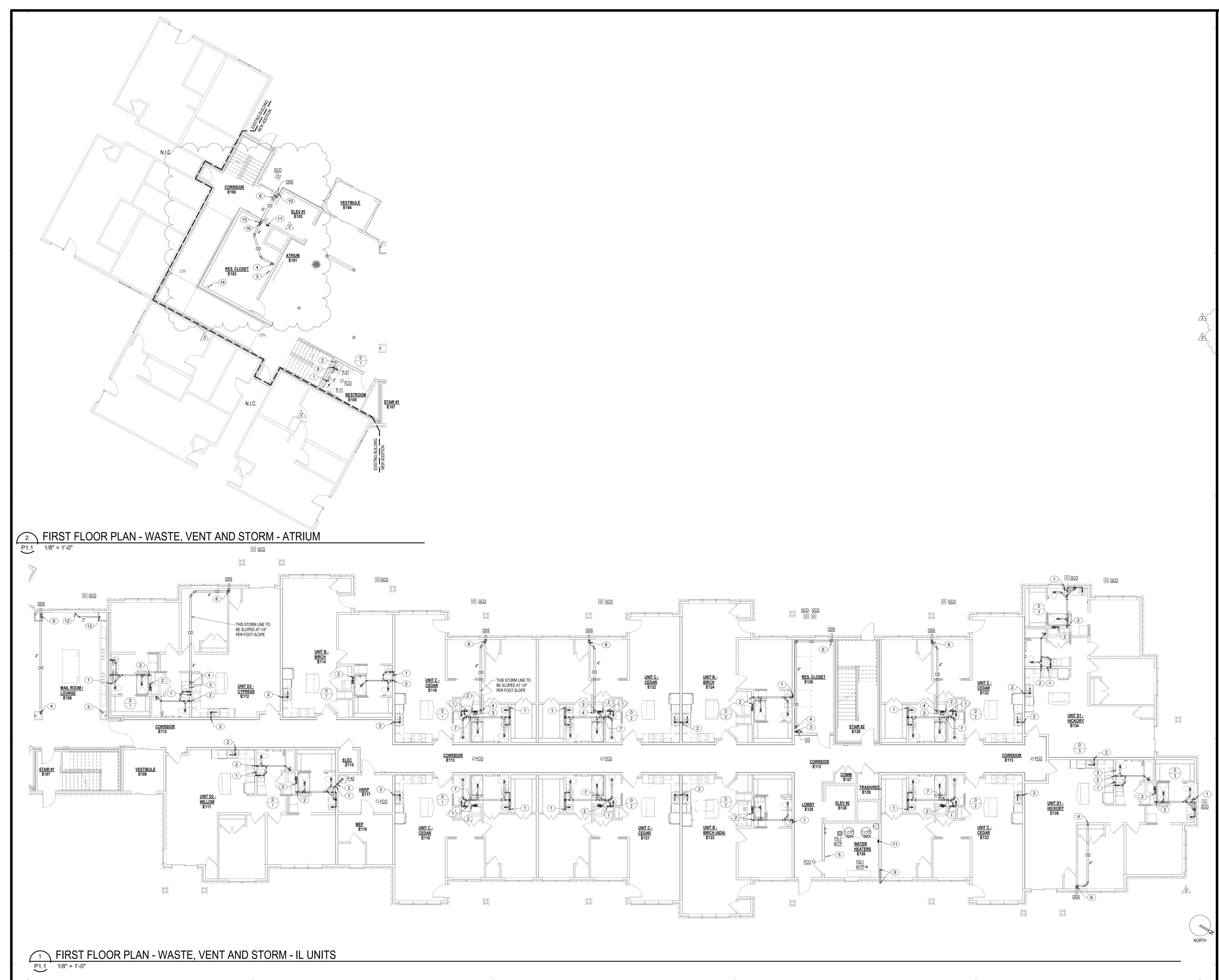
GENERAL PLUMBING NOTES

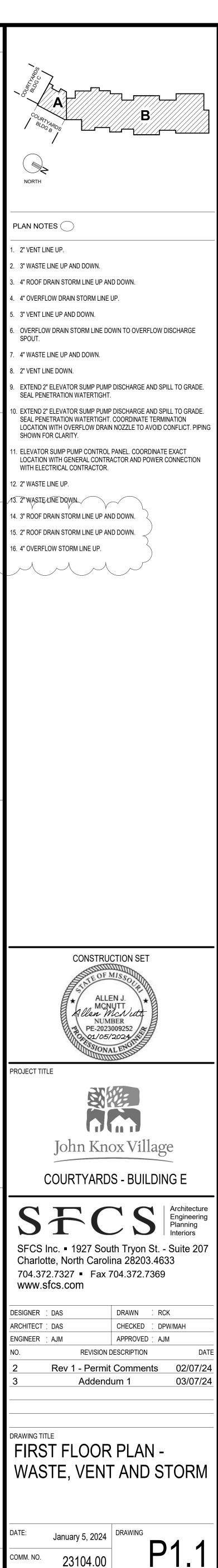
- 1. THE PLUMBING CONTRACTOR SHALL DETERMINE NECESSARY INVERT ELEVATIONS FOR PROPER DRAINAGE AND CONNECTION INTO SEWERS. ALL INVERT ELEVATIONS SHALL BE SET PRIOR TO INSTALLATION.
- 2. ALL PIPING PASSING THROUGH FIRE RATED OR FIRE AND SMOKE RATED ASSEMBLIES SHALL BE SLEEVED AND FIRESTOPPED. FIRESTOPPING SHALL COMPLY WITH U.L. LISTING AND REQUIREMENTS FOR ASSEMBLY TYPE BEING PENETRATED.
- 3. PLUMBING CONTRACTOR SHALL NOT CORE DRILL OR DISTURB ANY STRUCTURAL MEMBERS WITHOUT WRITTEN AUTHORIZATION BY THE ARCHITECT AND/OR STRUCTURAL ENGINEER.
- 4. PLUMBING CONTRACTOR SHALL COORDINATE PIPING LOCATIONS AND ROUTING WITH OTHER PIPING DUCTWORK AND ELECTRICAL CONDUIT INSTALLATIONS. PLUMBING CONTRACTOR SHALL REVIEW ARCHITECTURAL DRAWINGS TO ESTABLISH WHERE FURR-DOWNS AND SOFFITS OCCUR AND DIMENSIONS OF SAME SO THAT DISTANCES AND PIPING ROUTING CAN BE PROPERLY COORDINATED. ALL PIPING SHALL BE ROUTED IN A CONCEALED MANNER.
- 5. PLUMBING CONTRACTOR SHALL AVOID LOCATING HW/CW PIPING IN LOCATIONS WHERE POSSIBILITY OF FREEZING OF SAME EXISTS. CONTRACTOR SHALL ADVISE ENGINEER WHERE THIS CONDITION MAY OCCUR PRIOR TO ROUGH-IN.
- 6. ALL ADA ACCESSIBLE LAVATORIES AND SINKS WITH EXPOSED WATER AND DRAIN PIPES SHALL BE INSULATED TO PROTECT AGAINST CONTACT PER ADA REQUIREMENTS. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES.
- 7. ALL PLUMBING WORK SHALL BE INSTALLED IN COMPLIANCE WITH ALL STATE AND LOCAL CODES.
- 8. COORDINATE ROUTING OF ALL PIPING WITH THE ELECTRICAL CONTRACTOR SO AS NOT TO ROUTE ANY PLUMBING LINES OVER ELECTRICAL PANELS, SWITCHGEAR, ETC.
- 9. REFER TO SPECIFICATION SECTION 231123 FACILTY NATURAL-GAS PIPING FOR GAS PIPING AND INSTALLATION INFORMATION.
- 10. ACCESS DOORS TO VALVES, CLEANOUTS AND ETC. TO BE EQUAL TO "ACUDOR" DW OR FW SERIES, ACCESS DOORS FOR DRYWALL INSERTS. PROVIDE FIRE RATED ACCESS DOORS WHERE REQUIRED. COORDINATE WITH GENERAL CONTRACTOR AND VERIFY EXACT LOCATIONS AND SIZES ON SITE. PAINT TO MATCH CEILING OR WALL.
- 11. PLASTIC PIPING SHALL NOT BE INSTALLED IN ANY SPACE THAT IS A RETURN AIR PLENUM. COORDINATE WITH MECHANICAL CONTRACTOR FOR PLENUM LOCATIONS PRIOR TO INSTALLATION OF ANY PIPING. ONLY PLASTIC PIPING THAT IS APPROVED FOR PLENUM SPACES AND IS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION MAY BE INSTALLED IN RETURN AIR PLENUMS.
- 12. PIPING AND EQUIPMENT HANGERS SHALL BE SPACED IN A SYSTEMATIC RANDOM PATTERN AS REQUIRED TO ELIMINATE OVERLOADING INDIVIDUAL STRUCTURAL MEMBERS. THE ESTIMATED WEIGHT ASSIGNED TO PIPE AND EQUIPMENT HANGERS SHALL BE DETERMINED BY THE PLUMBING CONTRACTOR AND SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW, COORDINATION AND APPROVAL PRIOR TO INSTALLATION. THIS REQUIREMENT APPLIES TO ALL PLUMBING PIPING.

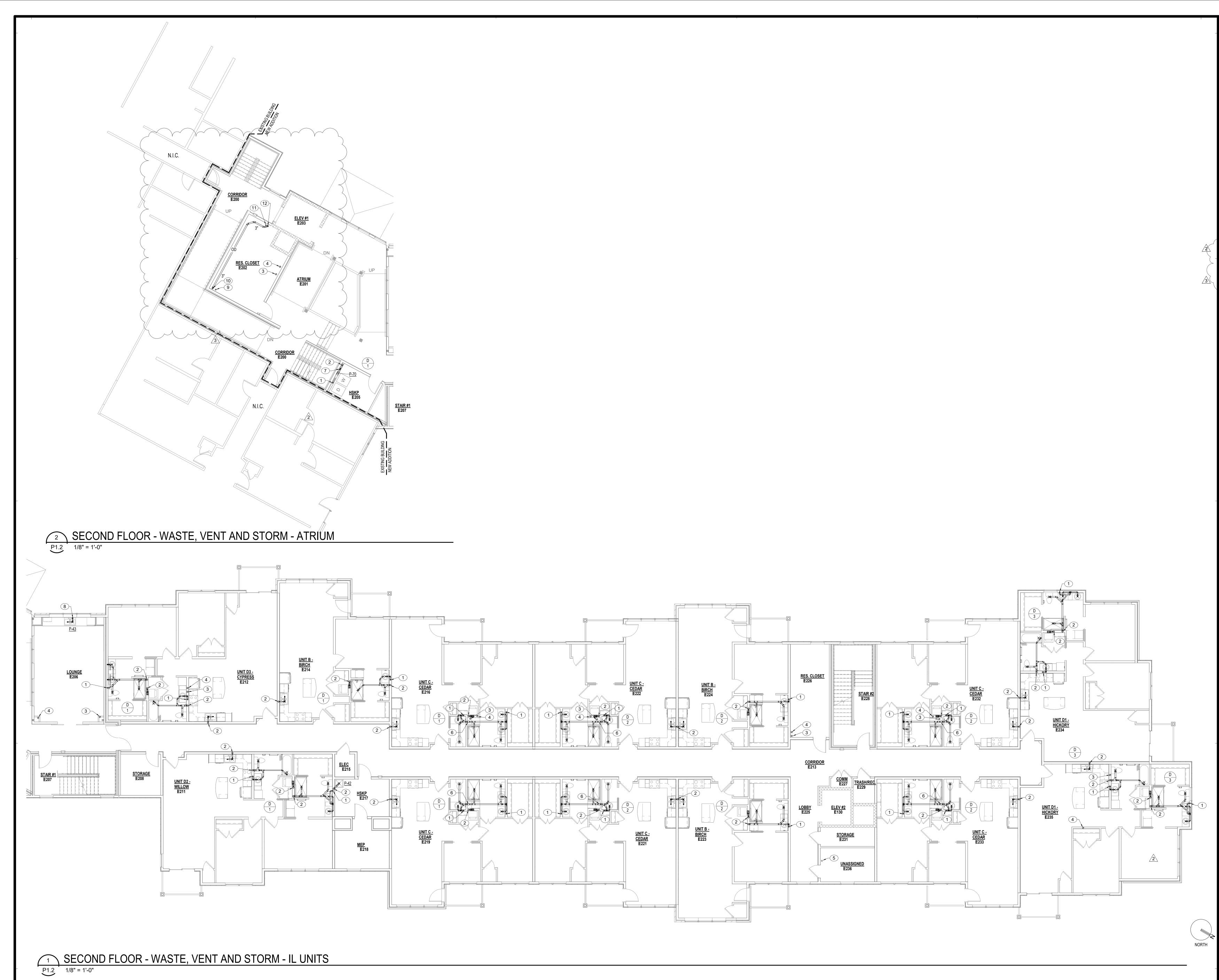
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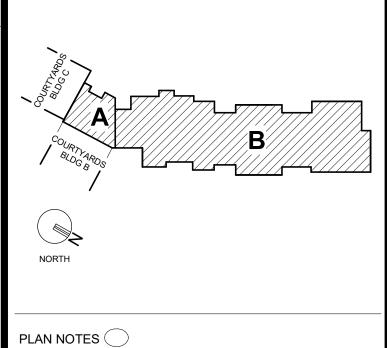






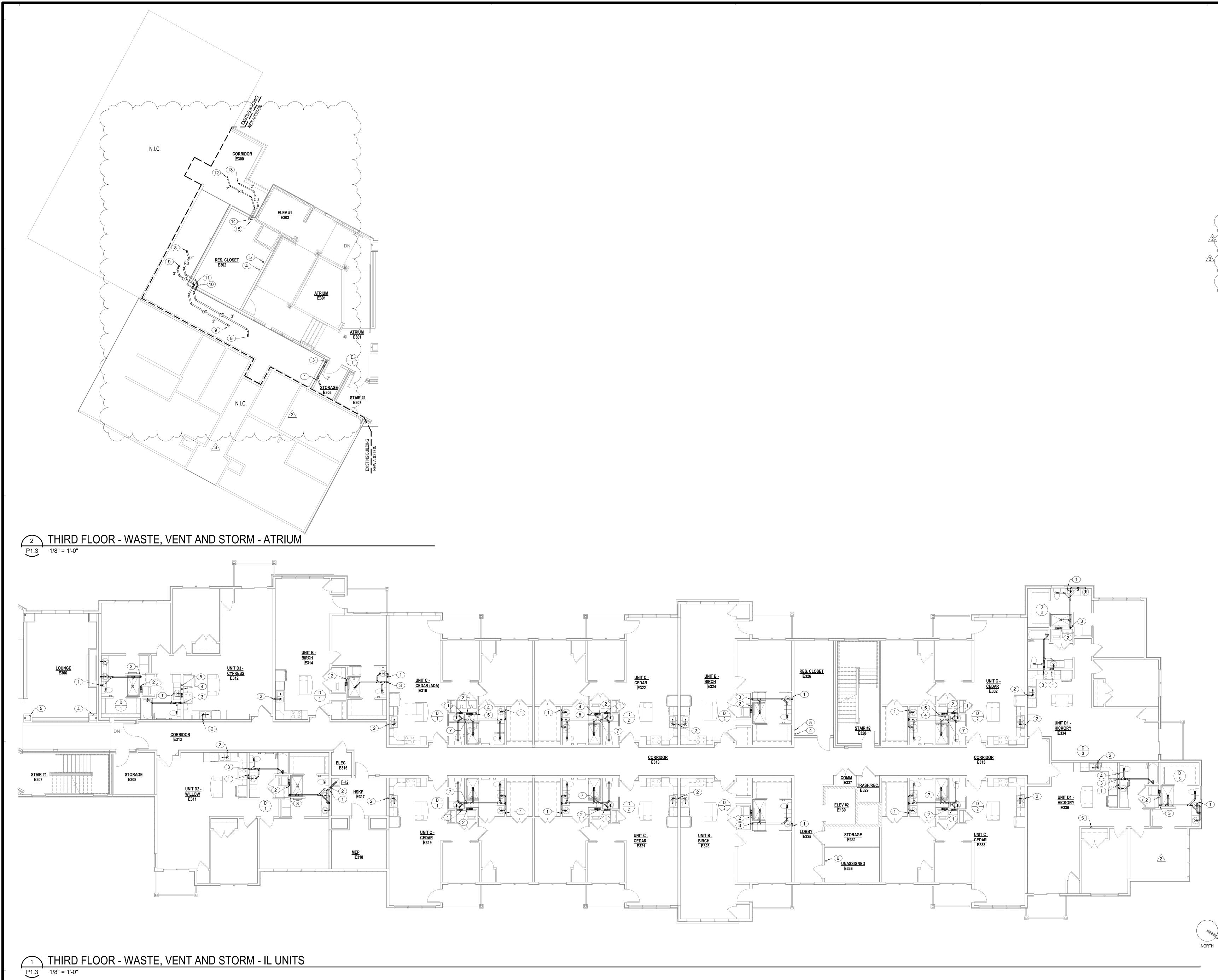




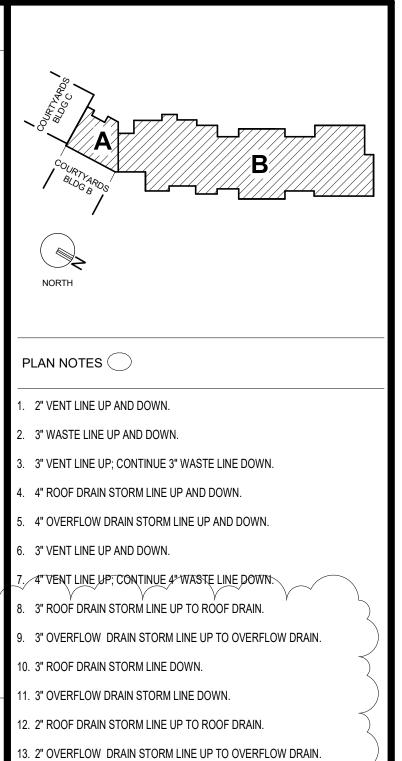


- 1. 2" VENT LINE UP AND DOWN.
- 2. 3" WASTE LINE UP AND DOWN.
- 3. 4" ROOF DRAIN STORM LINE UP AND DOWN.
- 4. 4" OVERFLOW DRAIN STORM LINE UP AND DOWN.
- 5. 3" VENT LINE UP AND DOWN.
- 6. 4" WASTE LINE UP AND DOWN.
- 7. 1-1/2" VENT LINE DOWN.
- 8. PROVIDE AIR ADMITTANCE VALVE AT SINK. INSTALL PER MANUFACTURERS RECOMMENDATIONS. CONTINUE 2" WASTE LINE
- 9. 3" ROOF DRAIN STORM LINE UP AND DOWN.
- 10. 3" OVERFLOW STORM LINE UP.
- 11. 2" ROOF DRAIN STORM LINE UP AND DOWN.
- 12. 2" OVERFLOW STORM LINE UP, 4" OVERFLOW STORM LINE DOWN.

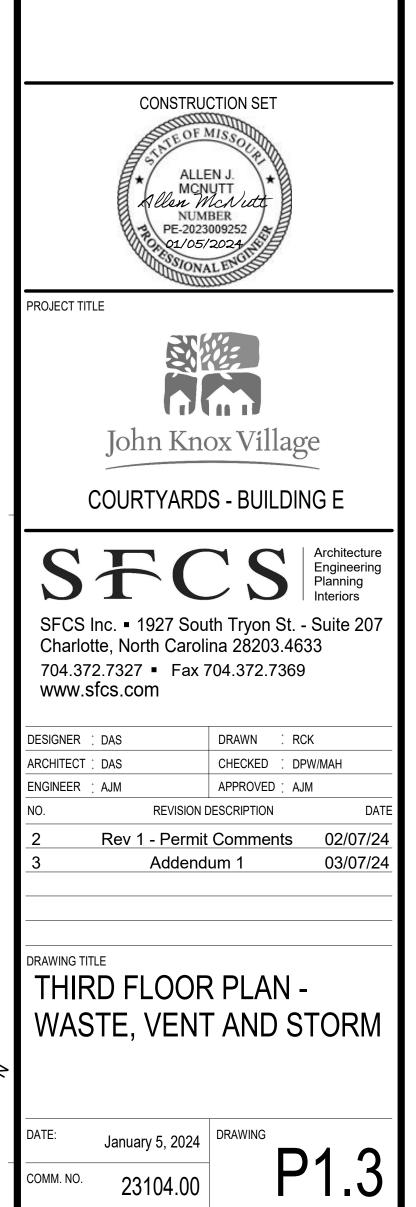
CONSTRUCTION SET ALLEN J. MCNUTT Allen McNutt NUMBER PE-2023009252 PROJECT TITLE John Knox Village COURTYARDS - BUILDING E S Architecture Engineering Planning Interiors SFC SFCS Inc. • 1927 South Tryon St. - Suite 207 Charlotte, North Carolina 28203.4633 704.372.7327 • Fax 704.372.7369 www.sfcs.com DESIGNER 🖞 DAS DRAWN .RCK ARCHITECT : DAS CHECKED : DPW/MAH APPROVED : AJM ENGINEER 🖞 AJM **REVISION DESCRIPTION** DATE Rev 1 - Permit Comments 02/07/24 03/07/24 Addendum 1 DRAWING TITLE SECOND FLOOR PLAN -WASTE, VENT AND STORM January 5, 2024 DRAWING DATE: .2 **D1** COMM. NO. 23104.00

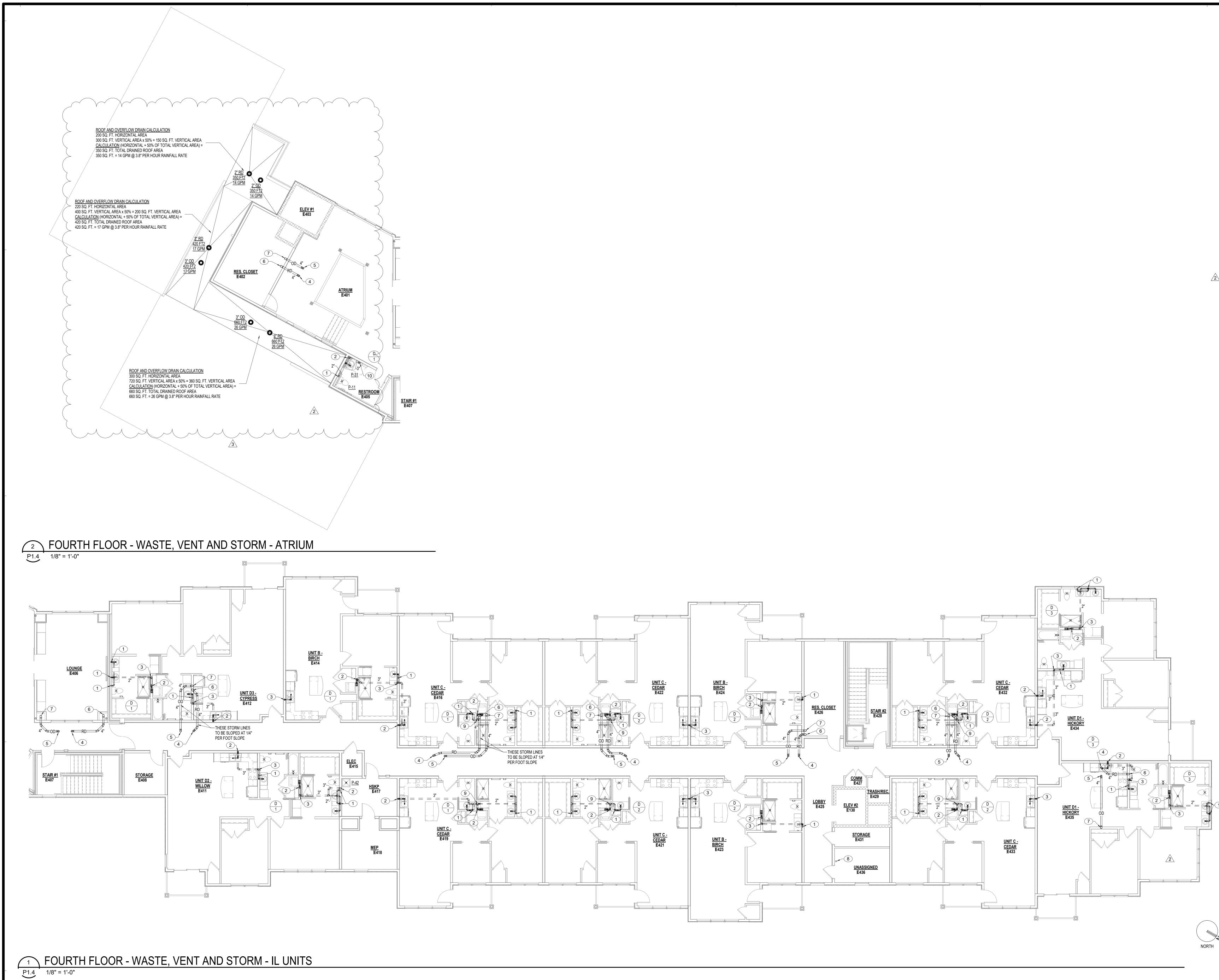


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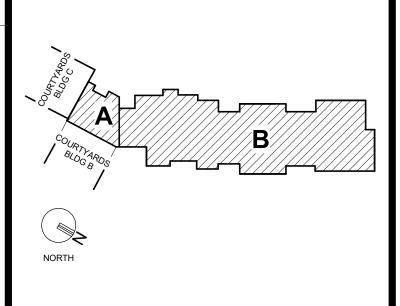


- 14. 2" ROOF DRAIN STORM LINE DOWN.
- 15. 2" OVERFLOW DRAIN STORM LINE DOWN.



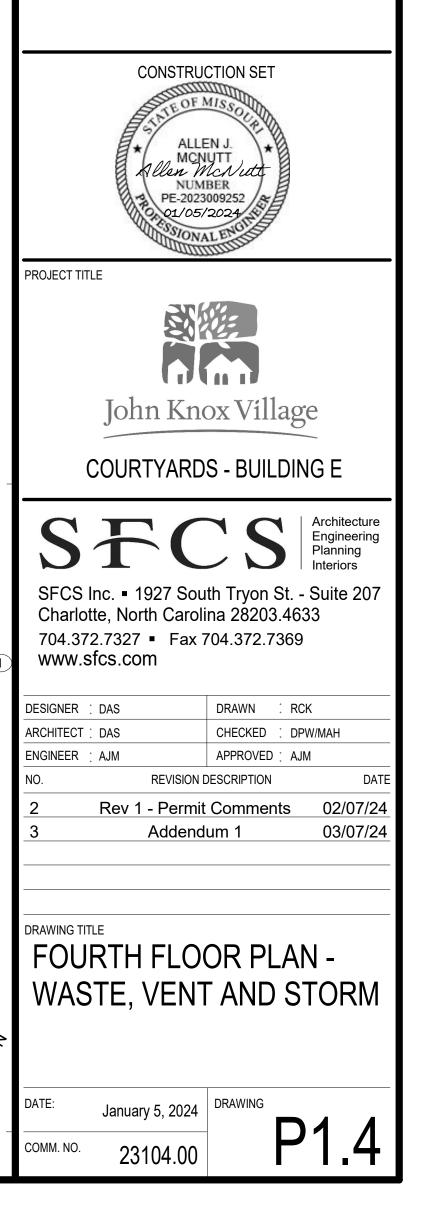


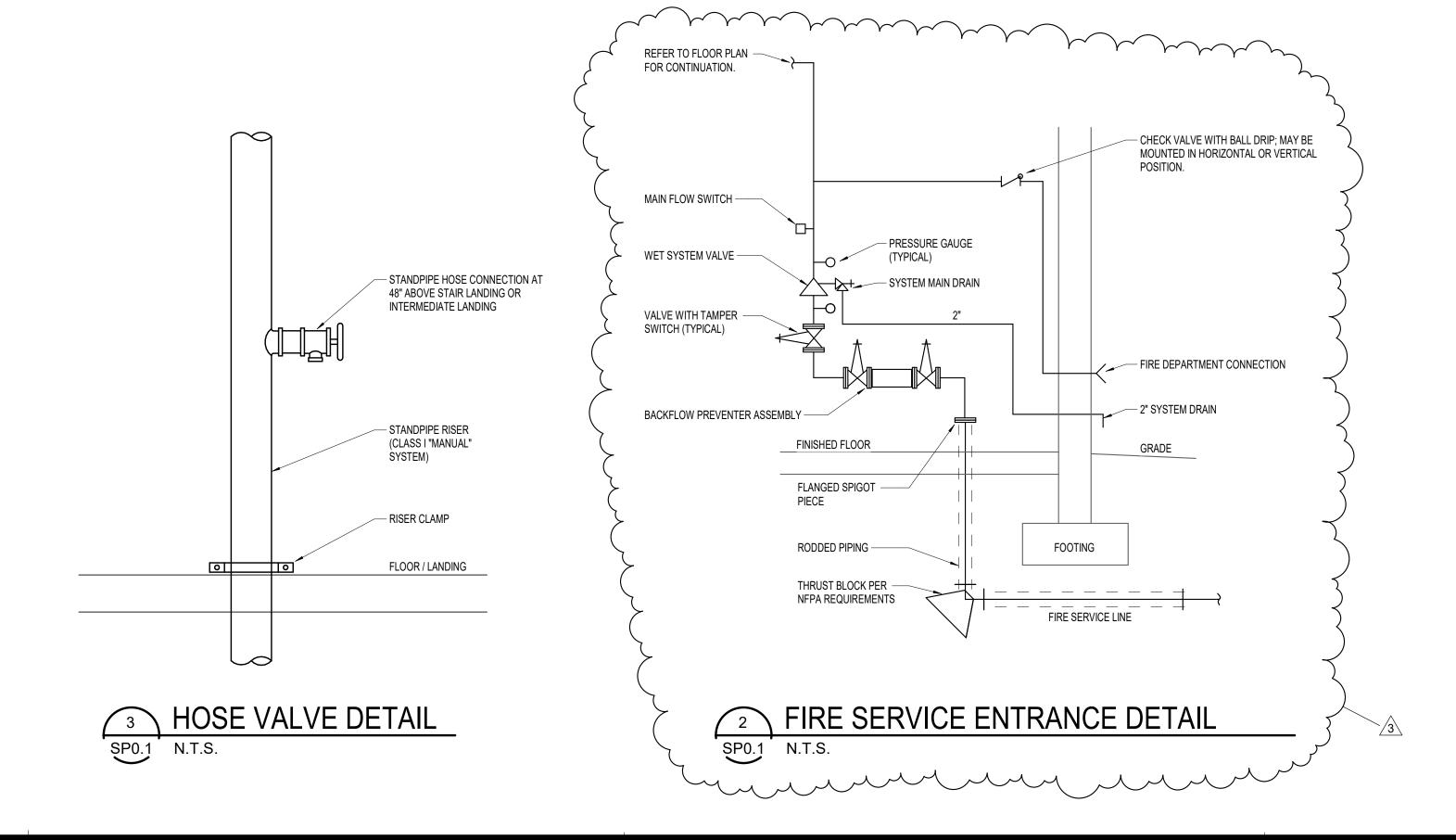
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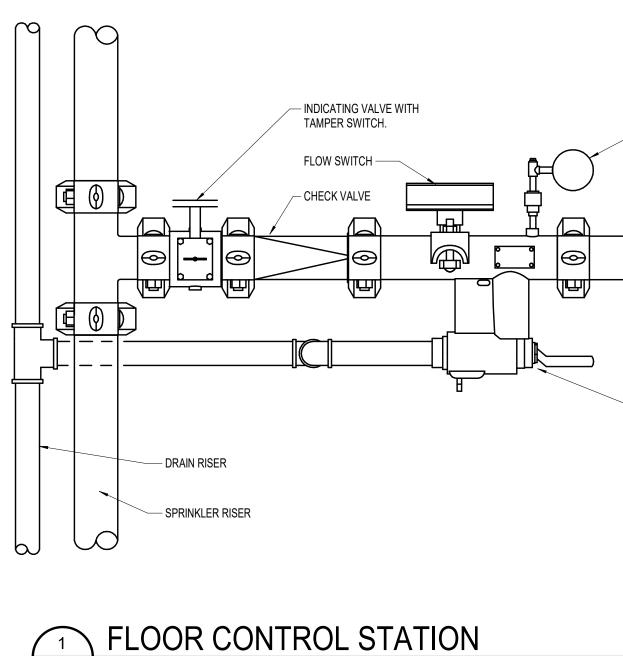
PLAN NOTES

- 1. 2" VENT LINE DOWN.
- 2. 3" VENT LINE DOWN.
- 3. 3" VENT LINE DOWN; CONTINUE 3" VENT UP TO 3" VENT THROUGH ROOF. 4. 4" ROOF DRAIN STORM LINE UP TO ROOF DRAIN.
- 5. 4" OVERFLOW ROOF DRAIN STORM LINE UP TO OVERFLOW DRAIN.
- 6. 4" ROOF DRAIN STORM LINE DOWN. 7. 4" OVERFLOW DRAIN STORM LINE DOWN.
- 8. 3" VENT LINE UP AND DOWN.
- 9. 4" VENT LINE DOWN; CONTINUE 4" VENT UP TO 4" VENT THROUGH ROOF. 10. 3" VENT UP TO 3" VENT THROUGH ROOF.





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SP0.1 N.T.S.

GENERAL FIRE SUPPRESSION NOTES

- A. ALL PIPE SIZES INDICATED ON PLANS ARE MINIMUM PIPE SIZES. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL PIPE SIZES, PIPING CONFIGURATIONS, AND ETC. AS REQUIRED TO MEET SYSTEM HYDRAULIC CALCULATIONS, BUILDING CONDITIONS, ALL APPLICABLE NFPA STANDARDS AND BUILDING CODES/LOCAL ORDINANCES.
- B. CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE FIRE PROTECTION SYSTEM TO PROVIDE COVERAGE FOR THE ENTIRE PREMISES. INCLUDE ALL PIPING AND ACCESSORIES PER THE REQUIREMENTS OF ALL APPLICABLE CODES, NFPA-13, NFPA-13R NFPA-14, NFPA 24 AND OWNER'S FIRE AND CASUALTY INSURER.
- C. THE SPRINKLER SYSTEM SHALL BE INSTALLED ACCORDING TO ALL FEDERAL, STATE, LOCAL, AND NFPA STANDARDS. ANY WORK INDICATED ON PLANS THAT IS ABOVE AND BEYOND REGULATIONS SHALL BE INSTALLED AS INDICATED ON PLANS OR IN SPECS.
- D. THE FIRE PROTECTION CONTRACTOR SHALL AVOID CONFLICT WITH DUCTWORK. LIGHTS. CONDUITS, PIPING, STRUCTURAL MEMBERS, AND ETC. AND REROUTE LINES AS REQUIRED.
- E. SPRINKLER HEADS LOCATED IN LAY-IN CEILINGS SHALL BE LOCATED IN CENTER OF TILES, ONE DIRECTION AND NO CLOSER THAN 12" IN THE OTHER DIRECTION IN 2X4 TILES. SPRINKLER HEADS LOCATED IN DRYWALL CEILINGS SHALL BE LOCATED SYMMETRICALLY WITH OTHER ITEMS IN CEILING.
- F. FIRE PROTECTION CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ELECTRICAL PANELS, SWITCHES, MOTOR CONTROL CENTERS, AND ETC. REWORK LINES AND HEADS AS REQUIRED TO AVOID HAVING THEM DIRECTLY ABOVE ELECTRICAL EQUIPMENT.
- G. THE FIRE PROTECTION CONTRACTOR SHALL CONSIDER ALL LOCATIONS OF LIGHTS, DIFFUSERS, RETURN GRILLES, SPRINKLER HEADS, AND ETC. TO BE APPROXIMATE LOCATIONS AND SHOULD BE VERIFIED ON SITE BEFORE ANY WORK IS BEGUN. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- H. HANGERS AND SUPPORTS SHALL BE NFPA APPROVED FOR CONSTRUCTION USE. ALSO, SAME SHALL MEET NFPA AND PIPE MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, LOCATIONS AND SPACING. HANGERS AND SUPPORTS SHALL BE RATED AND INSTALLED FOR SEISMIC REQUIREMENTS.
- I. PIPING PASSING THROUGH FIRE RATED SURFACES SHALL BE PROVIDED WITH SCHEDULE 40 CARBON STEEL SLEEVES FIRE-STOPPED WITH FIRE SEALANT APPROVED BY AUTHORITY HAVING JURISDICTION FOR ASSEMBLY BEING PENETRATED.
- J. DRAINS, DRAIN VALVES, FLUSHING CONNECTIONS, TEST CONNECTIONS, GAUGES, GUARDS, SHIELDS, AND SIMILAR ITEMS NECESSARY TO COMPLY WITH APPLICABLE CODES, STANDARDS AND/OR NFPA-13 SHALL BE FURNISHED AND INSTALLED.
- K. WHERE REQUIRED BY LOCAL AND STATE CODES, CONTRACTOR SHALL FURNISH AND INSTALL DEFLECTOR SHIELD ON SPRINKLER HEADS ADJACENT TO ELECTRIC PANELS, TELEPHONE BOARDS AND ELECTRICAL EQUIPMENT.
- L. PRIOR TO INSTALLATION, CONTRACTOR SHALL SUBMIT PRINTS OF FIRE PROTECTION DESIGN TO OWNERS FIRE AND CASUALTY INSURER FOR APPROVAL. CONTRACTOR SHALL OBTAIN ALL APPROVALS FROM APPLICABLE STATE AND LOCAL AUTHORITIES. CONTRACTOR SHALL ALSO SUBMIT FIRE PROTECTION DESIGN TO ARCHITECT AND ENGINEER FOR REVIEW.
- M. ALL PIPING SHALL BE CONCEALED, WHERE APPLICABLE AND PITCHED FOR POSITIVE DRAINAGE.
- N. SPRINKLER CONTRACTOR SHALL INCLUDE NECESSARY ARCHITECTURAL ACCESS DOORS WITH APPROPRIATE FIRE RATING AND SHALL MATCH ARCHITECTURAL FINISH WHERE NECESSARY FOR ACCESS TO VALVES, ETC. THESE ACCESS DOORS SHALL BE INDICATED ON SHOP DRAWINGS.
- O. WHERE SIDEWALL SPRINKLER HEADS ARE INSTALLED THRU WALL/SOFFIT. CONTRACTOR SHALL INSTALL ESCUTCHEON PLATES FLUSH WITH WALL/SOFFIT. P. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL FIRE RATED WALL AND CEILING
- INFORMATION. Q. OVERHANGS AND CANOPIES SHALL BE PROVIDED WITH SPRINKLER COVERAGE WHERE
- REQUIRED BY NFPA-13, STATE AND LOCAL CODES. R. ALL CEILING CAVITIES WITH COMBUSTIBLE CONSTRUCTION MATERIALS SHALL BE PROVIDED WITH SPRINKLER COVERAGE WHERE REQUIRED BY NFPA-13 AND ALL STATE/LOCAL CODES.
- S. REFER TO SPECIFICATIONS FOR HAZARD CLASSIFICATIONS FOR VARIOUS AREAS THROUGHOUT BUILDING.
- T. PIPING AND EQUIPMENT HANGERS SHALL BE SPACED IN A SYSTEMATIC RANDOM PATTERN AS REQUIRED TO ELIMINATE OVERLOADING INDIVIDUAL STRUCTURAL MEMBERS. THE ESTIMATED WEIGHT ASSIGNED TO PIPE AND EQUIPMENT HANGERS SHALL BE DETERMINED BY THE FIRE PROTECTION CONTRACTOR AND SUBMITTED TO THE GENERAL CONTRACTOR FOR REVIEW, COORDINATION AND APPROVAL PRIOR TO INSTALLATION. THIS REQUIREMENT APPLIES TO ALL FIRE PROTECTION PIPING.
- U. WHERE BACKFLOW PREVENTER IS REQUIRED, CONTRACTOR SHALL PROVIDE FORWARD FLOW TESTING PROVISION IN ACCORDANCE WITH NFPA REQUIREMENTS.

SPRINKLER HEAD SCHEDULE

SPRINKLER HEAD WITH WHITE COVER WITH SUSPENDED ACOUSTICAL TILE CEILINGS

LOCATION

TYPE QUICK RESPONSE, CONCEALED TYPE PUBLIC AREAS WITH DRYWALL OR HARD SPRINKLER HEAD WITH WHITE COVER CEILINGS PLATE

QUICK RESPONSE, CONCEALED TYPE CORRIDORS, LOBBY AND SIMILAR SPACES

MECHANICAL ROOMS, STORAGE ROOMS AND

QUICK RESPONSE, UPRIGHT TYPE SPRINKLER HEAD (MAY USE PENDANT SIMILAR SPACES WITHOUT CEILINGS WHERE APPLICABLE)

PLATE

FLOW:

FLOW TEST INFORMATION

FLOW TEST PERFORMED BY: CITY OF LEE'S SUMMIT FLOW TEST PERFORMED ON: 3-19-2021 STATIC PRESSURE: RESIDUAL PRESSURE:

94 PSI 56 PSI 1800 GPM

NOTE: INFORMATION INDICATED ON THESE DRAWINGS IS FOR DESIGN INTENT AND INFORMATION ONLY. THE DESIGN AND LAYOUT OF THE FIRE SUPPRESSION SYSTEM FOR THIS BUILDING IS A DELEGATED DESIGN TO BE PROVIDED BY A LICENSED FIRE SUPPRESSION CONTRACTOR. ALL TAMPER SWITCHES, FLOW SWITCHES, PRESSURE SWITCHES AND ELECTRICAL CONNECTIONS ASSOCIATED WITH THE SYSTEM ARE NOTED ON THESE DOCUMENTS TO ASSIST THE DELEGATED DESIGN FIRE SUPPRESSION AND FIRE ALARM CONTRACTORS IN PREPARING THEIR

DOCUMENTS. FIRE SUPPRESSION CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE EXACT QUANTITIES AND LOCATIONS OF ALL POINTS TO BE MONITORED WITH FIRE ALARM CONTRACTOR.

NOTE: FIRE SUPPRESSION SHOP DRAWINGS, PRODUCT DATA AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED AS ONE COMPLETE SUBMITTAL PACKAGE. INFORMATION INCLUDED IN SUBMITTAL SHALL BE PROJECT SPECIFIC AND CLEARLY IDENTIFIED.

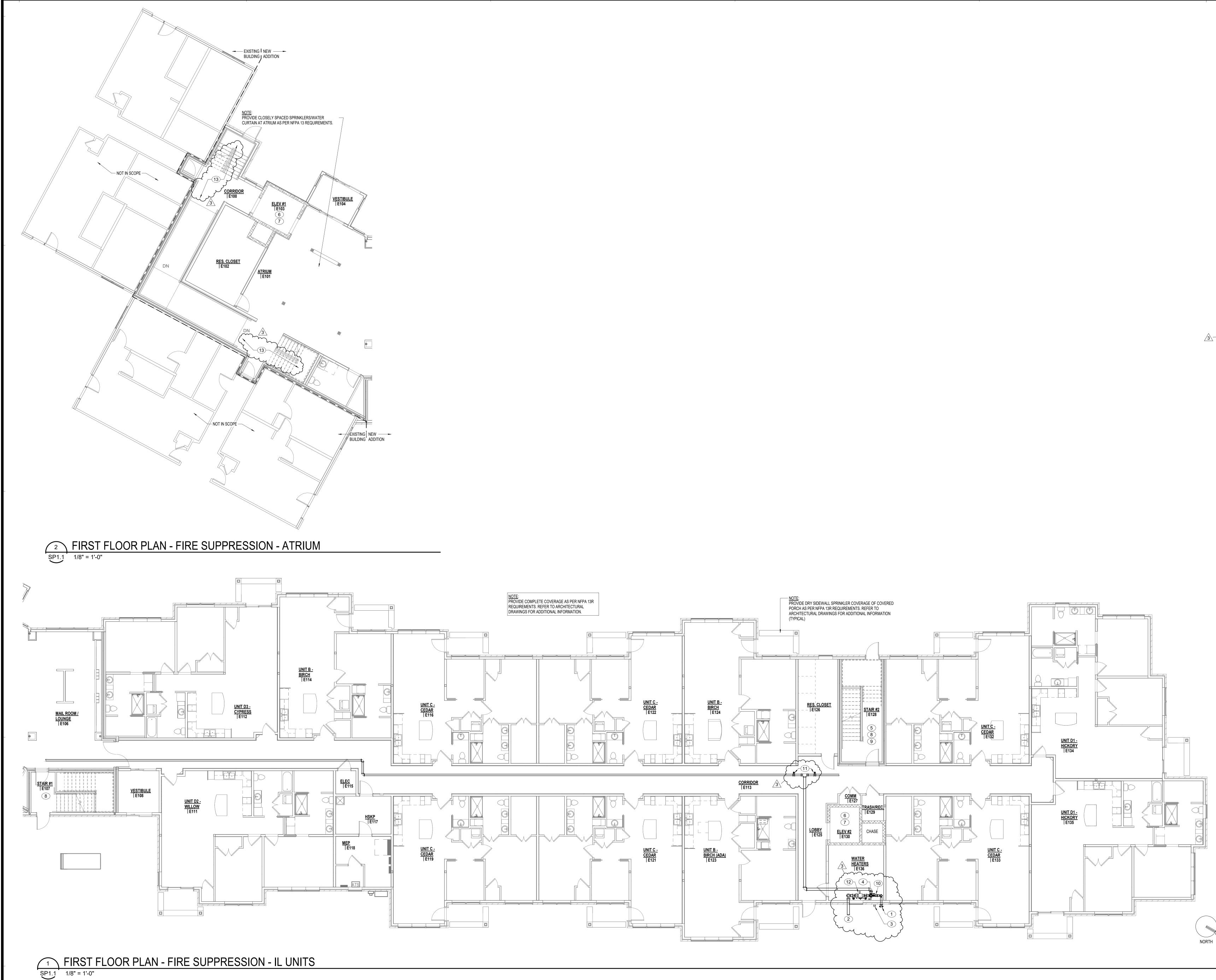
- PRESSURE GAUGE

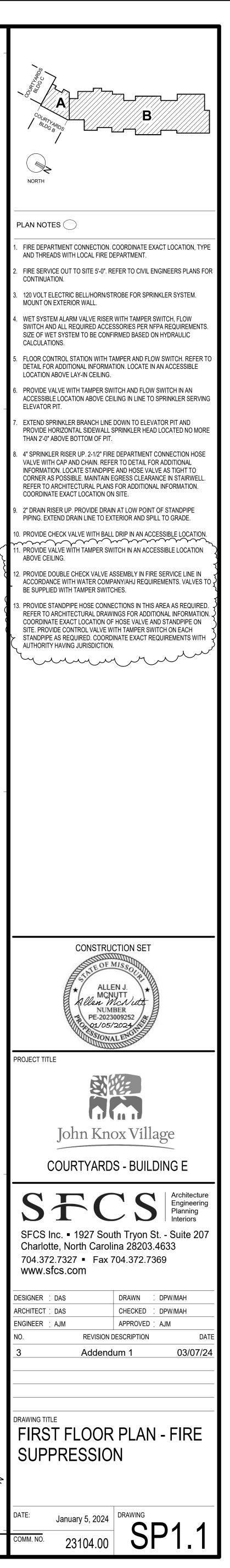
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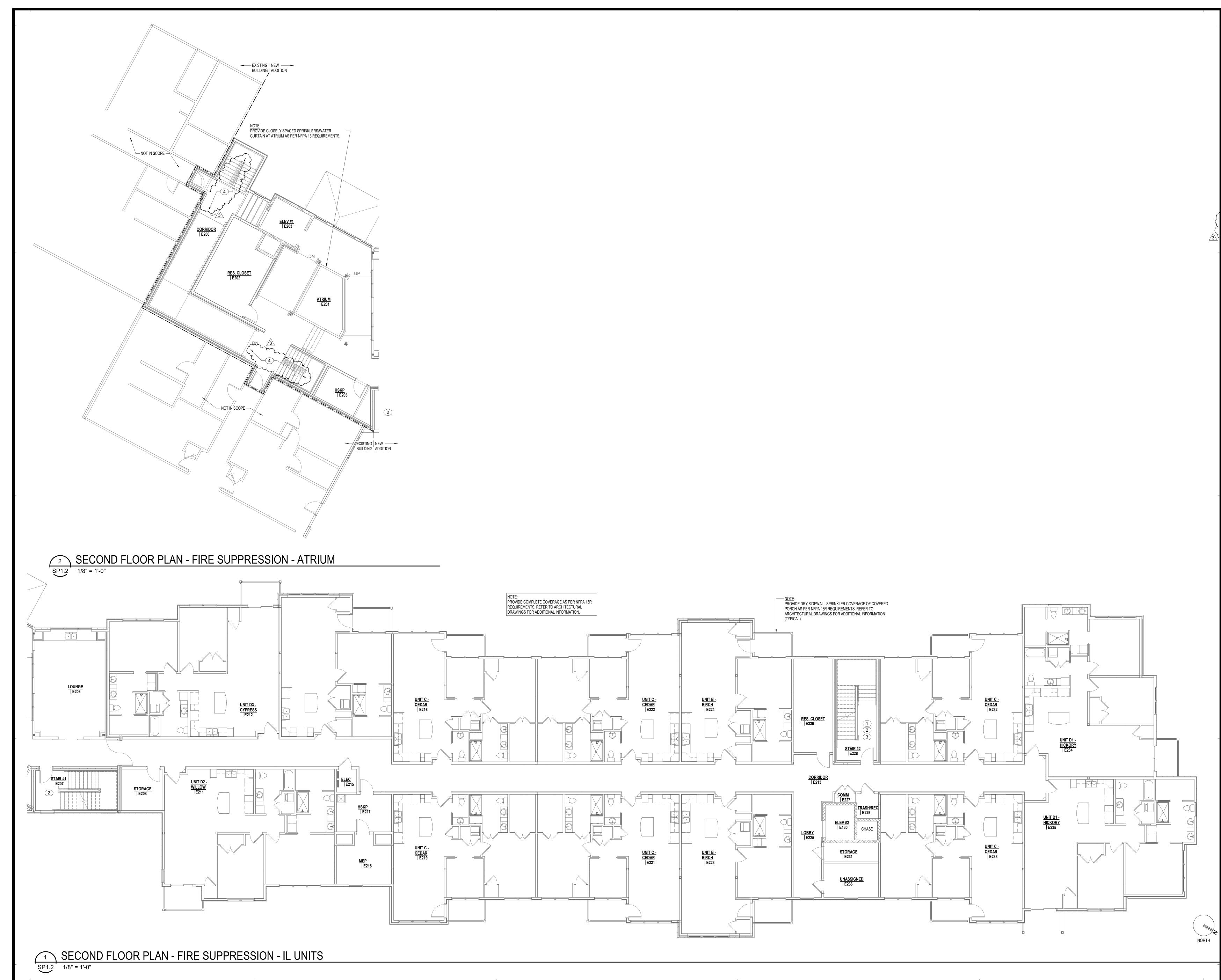
- TEST AND DRAIN VALVE

SPRINKLERS

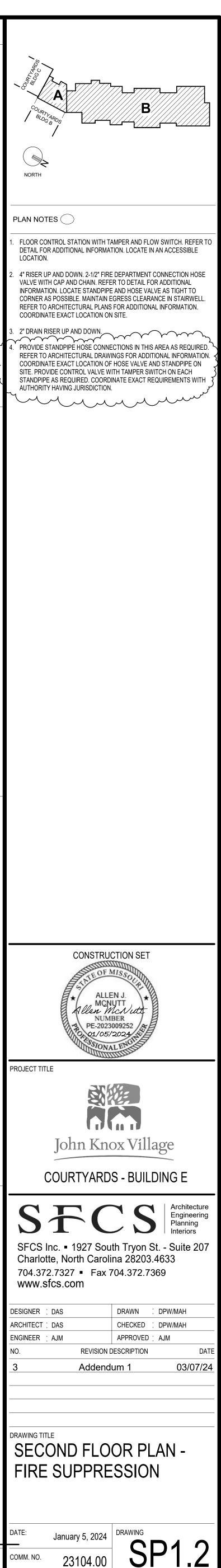
CONSTRUCTION SET
ALLEN J. MCNUTT NUMBER PE-2023009252 01/05/2024 PROJECT TITLE
John Knox Village COURTYARDS - BUILDING E SFCCS
SFCS Inc. • 1927 South Tryon St Suite 207 Charlotte, North Carolina 28203.4633 704.372.7327 • Fax 704.372.7369 www.sfcs.com
ARCHITECT : DAS CHECKED : DPW/MAH ENGINEER : AJM APPROVED : AJM NO. REVISION DESCRIPTION 3 Addendum 1
DRAWING TITLE FIRE SUPPRESSION INFORMATION
DATE: January 5, 2024 COMM. NO. 23104.00

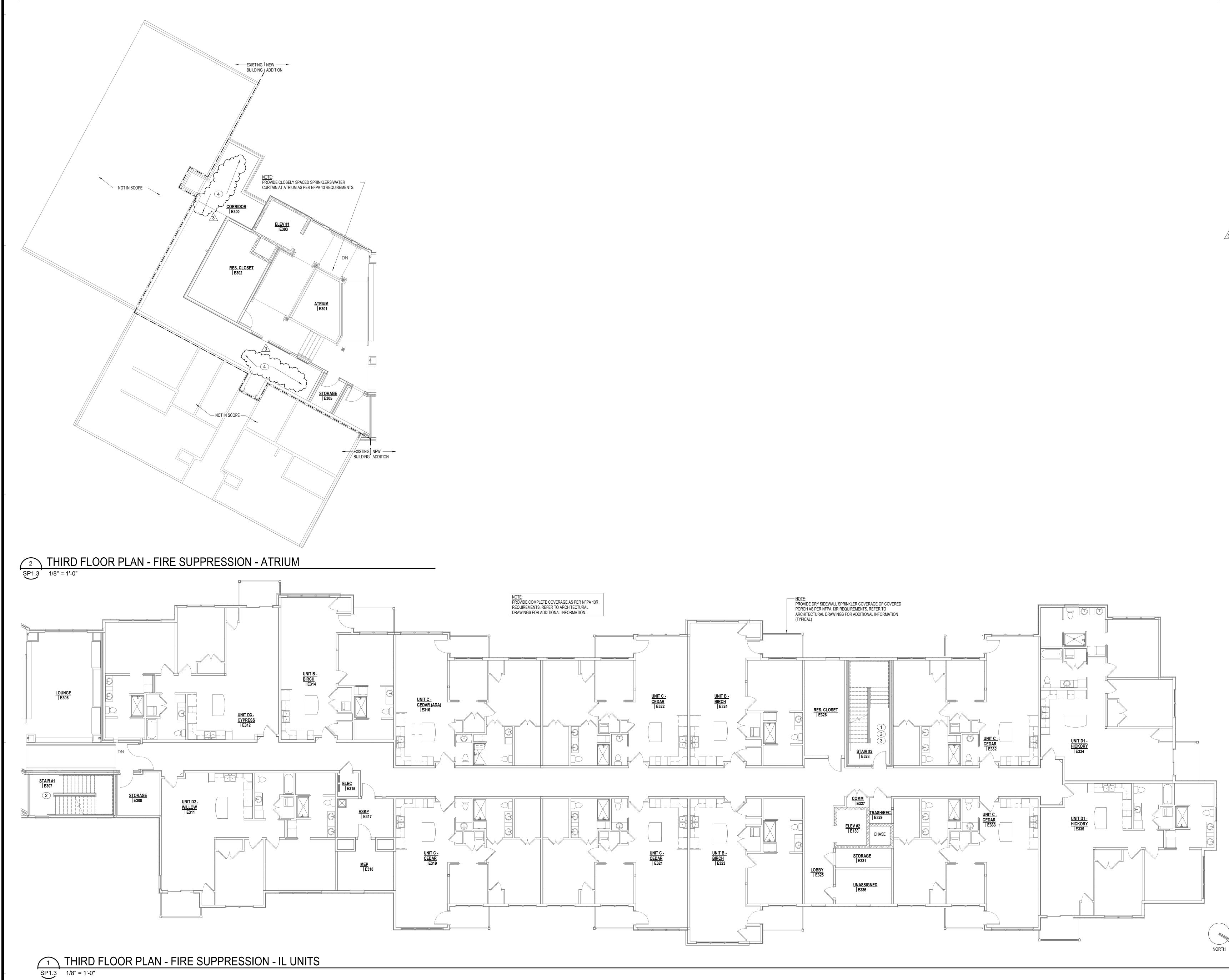


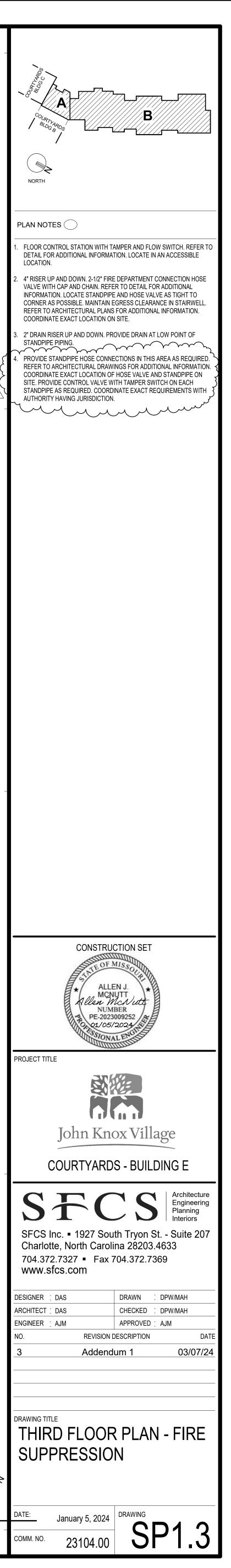




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ELECTRICAL SYMBOL LEGEND							
FIRE ALARM	DESCRIPTION	LOW VOLTAGE	DESCRIPTION	LIGHTING MTG. HGT. SYMBOL	DESCRIPTION	GENERAL MTG. HGT. SYMBOL	DESCRIPTION
(NOTE 2) (NOTES 3 & 4)	SMOKE DETECTOR, CEILING.	(NOTE 2) (NOTES 3 & 4)	WALL MOUNTED DATA OUTLET.	(NOTE 2) (NOTES 3 & 4)	CEILING MOUNTED RECESSED LUMINAIRE. (NOTE 6)	(NOTE 2) (NOTES 3 & 4)	PLAN NOTE DESIGNATION.
	"CO" = COMBINATION CARBON MONOXIDE DETECTOR "SB" = SOUNDER BASE, LOW FREQUENCY TYPE, UON "D" = SMOKE DETECTOR, DUCT TYPE. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION (NOTE 7).	1-0	"W" = WALL DATA OUTLET MOUNTED 54" AFF.		CEILING SURFACE MOUNTED LUMINAIRE. (NOTE 6)		KITCHEN EQUIPMENT DESIGNATION.
	"S" = SINGLE STATION TYPE "LF" = LOW FREQUENCY	1'-6"	WALL MOUNTED PHONE OUTLET "W" = MOUNTED AT 54" AFF.		WALL MOUNTED LUMINAIRE. (NOTE 6)	$\langle 1 \rangle$	LUMINAIRE TYPE DESIGNATION.
6'-8" — <u>S</u>	SMOKE DETECTOR, WALL. (NOTE 7) "CO" = COMBINATION CARBON MONOXIDE DETECTOR "SB" = SOUNDER BASE TYPE "DI" = SMOKE DETECTOR DUCT TYPE - SEE MECHANICAL DRAWINGS FOR EXACT LOCATION (NOTE 7)	1'-6"	WALL MOUNTED COMBINATION PHONE AND DATA OUTLET, "W" = MOUNTED AT 54" AFF.		CEILING MOUNTED LUMINAIRE. (NOTE 6)	POWER	
	"D" = SMOKE DETECTOR, DUCT TYPE. SEE MECHANICAL DRAWINGS FOR EXACT LOCATION (NOTE 7). "S" = SINGLE STATION TYPE (NOTE 7)		TELEDATA OUTLET, FLOOR.	$\langle \bigcirc$	CEILING MOUNTED LUMINAIRE, SINGLE WALL-WASHER TYPE. POINTED SIDE INDICATES DIRECTION OF MAXIMUM LIGHT DISTRIBUTION.	MTG. HGT. SYMBOL (NOTE 2) (NOTES 3 & 4)	DESCRIPTION
(H) 6'-8" —(H)	HEAT DETECTOR, CEILING.		PHONE OUTLET, FLOOR.	\bullet	CEILING MOUNTED LUMINAIRE, DOUBLE WALL-WASHER TYPE. POINTED SIDES INDICATE DIRECTION OF MAXIMUM LIGHT DISTRIBUTION.	1'-6"	DECORATOR DUPLEX RECEPTACLE, WALL MOUNTED. ALPHA-NUMERIC OR NUMERIC SUBSCRIPT INDICATES PANELBOARD CIRCUIT. (TYPICAL FOR ALL RECEPTACLES).
6'-8" —(H)	HEAT DETECTOR, WALL. (NOTE 7) FLAME DETECTOR, CEILING.		COMBINATION PHONE & DATA OUTLET, FLOOR.	\bigcirc	SURFACE OR PENDANT CEILING MOUNTED LUMINAIRE. (NOTE 6)		"GF" = GROUND FAULT DECORATOR RECEPTACLÈ. "WP" = WEATHERPROOF WHILE-IN-USE DEVICE, DECORATOR RECEPTACLE MOUNTED IN (NEMA-3R) WALLPLATE. "HG" = HOSPITAL GRADE.
4'-0" F	FIRE ALARM MANUAL PULL STATION.	1'-6" UON	RECESSED WALL MOUNTED COMBINATION RECEPTACLE, DATA & TV OUTLETS IN 2-GANG OUTLET BOX WITH VOLTAGE BARRIER.		WALL MOUNTED LUMINAIRE. (NOTE 6)		"C" = MOUNT RECEPTACLE 44"AFF TO CENTER OF BOX OR BOTTOM 0'-1" ABOVE BACKSPLASH/COUNTER, "H" = MOUNT RECEPTACLE HORIZONTALLY (ALL RECEPTACLE SHALL BE MOUNTED VERTICALLY UNLESS
5'-6"	FIRE ALARM FIRE FIGHTER TWO-WAY COMMUNICATION OUTLET JACK WALL UNIT.	TV	COMBINATION RECEPTACLE, DATA & TV OUTLET WITH VOLTAGE BARRIER, FLOOR.		FAN. CEILING MOUNTED WITH LUMINAIRE ACCESSORY.		NOTED BY AN "H"). "U" = USB DEVICE, (LEVITON T5832) "T" = TAMPER RESISTANT DEVICE.
S	FIRE ALARM SPEAKER WITH INTEGRAL VISUAL DEVICE.	6'-8"	BELL, WALL.				"MC" = PROVIDE A MIRRORED COVERPLATE FOR RECEPTACLE MOUNTED IN MIRRORS. "AF" = ARC FAULT CIRCUIT INTERRUPTER DEVICE "E" = INDICATES EMERGENCY DEVICE IF DEVICE NOT SHADED.
NOTE 7	FIRE ALARM HORN OR SPEAKER WITH INTEGRAL VISUAL DEVICE. "LF" = LOW FREQUENCY TYPE	6'-8"	BUZZER, WALL.	H	CEILING MOUNTED RECESSED COMBINATION UNIT. "H" = INFRARED HEAT LAMP.		
NOTE 7	"S" = DIGITAL SPEAKER TYPE	6'-8"	CHIME, WALL. PUSHBUTTON, WALL. "DB" = DOOR BELL, "GD" = GARAGE DOOR.	(12)	CEILING MOUNTED RECESSED COMBINATION UNIT. "H" = INFRARED HEAT LAMP.	-Æ	WALL MOUNTED DECORATOR DUPLEX RECEPTACLE. MOUNT AT 44" AFF TO CENTER OF BOX OR BOTTOM AT 1" ABOVE BACKSPLASH OR COUNTER TOP.
NOTE 7	FIRE ALARM BELL. FIRE ALARM VISUAL DEVICE.	ST	SIGNAL TRANSFORMER.		LIGHT TRACK. " "INDICATES QUANTITY OF FIXTURES PER TRACK. NUMBER INDICATES NOMINAL LENGTH IN FEET.	1'-6"	WALL MOUNTED DECORATOR DUPLEX RECEPTACLE. GROUND FAULT DEVICE.
	FIRE ALARM CHIME.		SECURITY VIDEO CAMERA, CEILING OR SOFFIT MOUNTED.	$\blacksquare - \bigcirc \longrightarrow$	POST ARM MOUNTED LIGHTING FIXTURE. LUMINAIRE(S) SHOWN FOR QUANTITY AND ORIENTATION. (NOTE 5)		WALL MOUNTED DECORATOR DUPLEX RECEPTACLE. GROUND FAULT DEVICE. WALL MOUNTED DECORATOR DUPLEX RECEPTACLE. MOUNT AT 44" AFF TO CENTER OF BOX OR BOTTOM AT 1" ABOVE BACKSPLASH OR COUNTER TOP.
	FIRE ALARM HORN OR SPEAKER WITH INTEGRAL VISUAL DEVICE.	3'-10" N	NURSES' CALL PATIENT STATION, WALL.		POST TOP MOUNTED LIGHTING FIXTURE. (NOTE 5)		SHADED DEVICE SYMBOL INDICATES EMERGENCY.(TYPICAL FOR ALL RECEPTACLES)
S	FIRE ALARM SPEAKER FOR AUDIBLE TONE. CEILING/PENDANT MOUNT.	3'-10" N	NURSES' CALL EMERGENCY STATION, WALL.	$\bigcirc \rightarrow$	LANDSCAPE LIGHTING FIXTURE, GROUND MOUNTED. (NOTE 5)		DUPLEX RECEPTACLE, FLOOR.
	FIRE ALARM SPEAKER/STROBE. CEILING/PENDANT MOUNT.	3'-10" N s	NURSES' CALL STAFF STATION, WALL.		CEILING MOUNTED EXIT SIGN. SHADED QUADRANT(S) INDICATES FACE(S). PROVIDE ARROWS AS INDICATED ON		DUPLEX RECEPTACLE AND TELEPHONE OR DATA OUTLET IN A TWO-COMPARTMENT FLUSH FLOOR BOX.
AOM	ADDRESSABLE OUTPUT MODULE.	3'-10" D	NURSES' CALL DUTY STATION, WALL.		DRAWINGS. LUMINAIRE TYPE "X1", UNO.	→ c	DUPLEX RECEPTACLE, CEILING.
IAM ZAM	INDIVIDUAL ADDRESSABLE MONITOR MODULE. ZONE ADDRESSABLE MODULE.	MS 7'-4"(N)	NURSES' CALL MASTER STATION. NURSES' CALL ZONE LIGHT, WALL.		DRAWINGS. LUMINAIRE TYPE "X1", UNO.	0'-6"	DUPLEX RECEPTACLE IN A CAST "FS" BOX MOUNTED ON (2) RIGID CONDUITS FROM FLOOR.
IM	SIGNALING LINE CIRCUIT ISOLATION MODULE.	N Z	NURSES' CALL ZONE LIGHT, CEILING.			1'-6"	SPLIT WIRED TAMPER-RESISTANT DECORATOR DUPLEX RECEPTACLE, WALL MOUNTED. BOTTOM PLUG SHALL BE WIRED THRU A SWITCH. TOP PLUG IS NOT SWITCHED.
7'-4" —	SMOKE, HEAT OR FLAME DETECTOR REMOTE ALARM LIGHT, WALL.	7'-4" — N C	NURSES' CALL CORRIDOR DOME LIGHT, WALL.	3'-10" \$a	GENERAL USE SWITCH, SINGLE POLE. LOWER CASE ALPHABETIC SUBSCRIPT, WHERE SHOWN, INDICATES LOADS CONTROLLED. (TYP FOR ALL SWITCHES.)	1'-6"	TWO DUPLEX RECEPTACLES IN A TWO GANG OUTLET BOX, WALL.PROVIDE BARRIER BETWEEN RECEPTACLES UNLESS CONNECTED TO SAME BRANCH CIRCUIT.
	SMOKE, HEAT OR FLAME DETECTOR REMOTE ALARM LIGHT, CEILING.	(N) _C	NURSES' CALL CORRIDOR DOME LIGHT, CEILING.	3'-10"	TWO SINGLE-POLE SWITCHES IN A 2-GANG BOX. EACH SWITCH TO CONTROL A SEPARATE BALLAST IN A LUMINAIRE, REFER TOLUMINAIRE SCHEDULE AND/OR DRAWINGS.		TWO DUPLEX RECEPTACLES IN A TWO GANG OUTLET BOX, FLOOR.
FS OR (W)	SPRINKLER SYSTEM WATER FLOW DETECTOR SWITCH. (NOTE 7)	3'-10" E	EMERGENCY CALL SWITCH, WALL.	3'-10" \$2	GENERAL USE SWITCH, DOUBLE POLE.	⊕ c	TWO DUPLEX RECEPTACLES IN A TWO GANG OUTLET BOX, CEILING.
PS OR X	SPRINKLER SYSTEM PRESSURE SWITCH. (NOTE 7)	(E) _C 7'-4" —(E)	EMERGENCY CALL CORRIDOR DOME LIGHT, CEILING.	3'-10" \$3	GENERAL USE SWITCH, THREE WAY.	1'-6"	SINGLE RECEPTACLE, WALL.
TS OR Y 5'-0" FAA	SPRINKLER SYSTEM VALVE SUPERVISORY SWITCH. (NOTE 7) FIRE ALARM ANNUNCIATOR PANEL	7'-4" — E C	EMERGENCY CALL CORRIDOR DOME LIGHT, WALL. SOUND SYSTEM SPEAKER, WALL. LETTER, WHERE SHOWN, INDICATES TYPE.	3'-10" \$\$3	ONE 3-WAY SWITCH AND ONE SINGLE-POLE SWITCH IN A 2-GANG BOX. EACH SWITCH TO CONTROL A SEPARATE BALLAST IN A LUMINAIRE,	⊖ c	SINGLE RECEPTACLE, FLOOR. SINGLE RECEPTACLE, CEILING.
6'-0"	FIRE ALARM CONTROL PANEL	Í	SOUND SYSTEM SPEAKER, CEILING.	3'-10" 3 \$\$3	REFER TO LUMINAIRE SCHEDULE AND/OR DRAWINGS. TWO 3-WAY SWITCHES IN A 2-GANG BOX. EACH SWITCH		SINGLE RECEPTACLE, CEILING. SPECIAL PURPOSE RECEPTACLE, WALL. "D" = DRYER (NEMA 14-30R), "R" = RANGE (NEMA 14-50R), UNO.
6'-0" D	MAGNETIC DOOR HOLDER	20'-0"	SOUND SYSTEM HORN SPEAKER, WALL.	о ф фо	TO CONTROL A SEPARATE BALLAST IN A LUMINAIRE, REFER TO LUMINAIRE SCHEDULE AND/OR DRAWINGS.		SPECIAL PURPOSE RECEPTACLE (TYPE AS NOTED), FLOOR.
5'-0" ARA	FIRE ALARM NOTIFICATION APPL. CKT PANEL AREA OF RESCUE BASE STATION/CONTROL PANEL.	7'-4"	INTERCOM SYSTEM SPEAKER, WALL.	3'-10" \$4	GENERAL USE SWITCH, FOUR WAY.	C C	SPECIAL PURPOSE RECEPTACLE (TYPE AS NOTED), CEILING.
5'-0" ARC	AREA OF RESCUE CALL STATION.	20'-0"	INTERCOM SYSTEM SPEAKER, CEILING.	3'-10" \$ P	GENERAL USE SWITCH, PILOT LIGHT TYPE. PILOT LIGHT IS "ON" WHEN SWITCH IS "ON".	1'-6" — J	JUNCTION BOX, WALL.
5'-0" FAMP	FIRE ALARM AUDIO AMPLIFIER	20'-0" — Ø <	INTERCOM SYSTEM HORN SPEAKER, WALL. MICROPHONE OUTLET, WALL.	3'-10" \$ _K	GENERAL USE SWITCH, KEY OPERATED.	L	JUNCTION BOX, FLOOR.
- 5'-0" FAPS	FIRE ALARM POWER SUPPLY	M	MICROPHONE OUTLET, FLOOR.	3'-10" \$ _T 3'-10" \$ _F		() ^C	
		1'-6" — A	AUXILIARY OUTLET FOR SOUND SYSTEM, WALL.		FAN/LIGHT CONTROL SWITCH, FOUR POSITION FOR SEPERATE CONTROL OF FAN AND FAN LIGHT KIT. SWITCH FURNISHED WITH FAN BY FAN MANUFACTURER.		DIRECT CONNECTION TO EQUIPMENT.
		Α	AUXILIARY OUTLET FOR SOUND SYSTEM, FLOOR.	з'-10" Ф	OCCUPANCY SENSOR SWITCH, WALL MOUNTED. DUAL TECHNOLOGY TYPE UNLESS INDICATED OTHERWISE. SUBSCRIPT : "R" = INFRARED TYPE. "U" =ULTRASONIC TYPE. "2" = 2-POLE DUAL RELAYS; "D" = DIMMER	 О _{СВ}	GROUND ROD
		3'-10"	VOLUME CONTROL, WALL.		LOWERCASE ALPHABETIC SUBSCRIPT, WHERE SHOWN, INDICATES LOADS CONTROLLED. SET TIME DELAY TO AUTOMATIC UNLESS INDICATED OTHERWISE. SET TO MANUAL ON/ AUTO-OFF OPERATION UNLESS INDICATED OTHERWISE.	M	ELECTRIC MOTOR CONNECTION.
EI ECTRI		3'-10"	INTERCOM SYSTEM CALL IN STATION, WALL.	(30)	OCCUPANCY SENSOR SWITCH, CEILING MOUNTED. DUAL TECHNOLOGY TYPE UNLESS INDICATED OTHERWISE. SUBSCRIPT : "R" = INFRARED TYPE. "U" =ULTRASONIC TYPE. "2" = 2-POLE DUAL RELAYS;	\$ _M	MOTOR RATED SWITCH.
			INTERCOM SYSTEM CALL-IN STATION, FLOOR.		LOWERCASE ALPHABETIC SUBSCRIPT, WHERE SHOWN, INDICATES LOADS CONTROLLED. SET TIME DELAY TO AUTOMATIC UNLESS INDICATED OTHERWISE. SET TO AUTO-ON OPERATION UNLESS INDICATED OTHERWISE.	3'-10" P	POWERED DOOR OPERATOR, WALL.
A OR AMP AMPERE ABV ABOVE	FAFIRE ALARMNECNATIONAL ELECTRICAL CODEFACPFIRE ALARM CONTROL PANELNEUTNEUTRALFDRFEEDERNFSSNON-FUSIBLE SAFETY SWITCH	MS S	SECURITY SYSTEM DOOR SWITCH.	3'-10" D	DIMMER SWITCH, COMPATIBLE WITH LOAD TYPE. SUBSCRIPT : "3" = THREE-WAY	1'-6" UON — TV	RECESSED WALL MOUNTED COMBINATION RECEPTACLE, DATA & TV OUTLETS IN 2-GANG OUTLET BOX WITH VOLTAGE BARRIER. COORDINATE BLOCKING W/ARCHITECT WHERE WALL MOUNT TV IS REQUIRED.
AC ALTERNATING CURRENT ACB ABOVE COUNTER BACKSPLASH AFCI ARC FAULT CIRCUIT INTERRUPTER	FC FOOTCANDLE NO NUMBER FLUOR FLUORESCENT OVERWEAD	7'-0" — C	CLOCK HANGER OUTLET, WALL.	R	UL 924 LISTED EMERGENCY TRANSFER RELAY DEVICE CAPABLE OF SENSING AND SWITCHING FROM NORMAL TO EMERGENCY POWER UPON LOSS.	SURFACE	208/120 VOLT PANELBOARD.
AFD ADJUSTABLE FREQUENCY DRIVE AFF ABOVE FINISHED FLOOR	FSDR MOTOR OPERATED FIRE/SMOKE DAMPER OH OVERHEAD FSS FUSIBLE SAFETY SWITCH P POLE FXTR FIXTURE PB PULL BOX OR PUSHBUTTON	7'-0" – () _A	CLOCK, WALL. LETTER, WHERE SHOWN, INDICATES TYPE.			6'-0" TO TOP SURFACE	-
AIC AMPERES INTERRUPTING CAPACITY AL ALUMINUM AM AMMETER	GD GARAGE DOOR PBS PUSHBUTTON STATION GEN GENERATOR PH() PHASE						480/277 VOLT PANELBOARD.
AMPL AMPLIFIER ASYM ASYMMETRICAL ATS AUTOMATIC TRANSFER SWITCH	GFI GROUND FAULT PNLBD PANELBOARD GND GROUND PRI PRIMARY						TRANSFORMER, SIZE AND TYPE AS INDICATED ON DRAWING.
AWG AMERICAN WIRE GAGE BEL BELOW	PT POTENTIAL TRANSFORMER H HORIZONTAL PVC POLYVINYL CHLORIDE HG HOSPITAL GRADE PWR POWER					5'-0"	DISCONNECT SWITCH. DESIGNATION INDICATES:
BD BUS DUCT BOTT BOTTOM BRKR BREAKER	HGT HIGH INTENSITY DISCHARGE HID HEIGHT QTY QUANTITY HOA HAND-OFF-AUTOMATIC Image: Constraint of the second se					TO TOP 3/30/240/3R/F	
C COUNTERTOP CA CABLE	HP HORSEPOWER OR HEAT PUMP RECPT RECEPTACLE HPF HIGH POWER FACTOR REFRIG REFRIGERATOR HPS HIGH PRESSURE SODIUM RSC RIGID STEEL CONDUIT						FUSED "F" OR NON-FUSED "NF" NEMA ENCLOSURE RATING VOLTAGE
CAB CABINET CATV COMMUNITY ANTENNA TELEVISION OR CABLE	HTR HEATER HW HOT WATER SCC SHORT CIRCUIT CURRENT		3'-0"	'MIN	NOTE: MEASUREMENTS SHOWN 4" ARE TO CLOSEST EDGE OF		AMPACITY RATING NO. OF POLES
TELEVISION CB CIRCUIT BREAKER CCTV CLOSED CIRCUIT TELEVISION	IC INTERCOM OR INTERRUPTING SMR SURFACE METAL RACEWAY			A/C SUPPLY	CEILING	5'-0" CB TO TOP 3/30/240/3R/F	ENCLOSED CIRCUIT BREAKER. DESIGNATION INDICATES:
CF COMPACT FLUORESCENT CKT CIRCUIT CLG CEILING	CAPACITY SPKR SPEAKER IG ISOLATED GROUND SR SURFACE RACEWAY IMC INTERMEDIATE METAL CONDUIT SS SURGE SUPPRESSOR/		CEILING MOUNTED SMOKE/HEAT DETECTOR	OR RETURN DIFFUSER			FUSED "F" OR NON-FUSED "NF"
CND CONDUIT CNTR CENTER	INC INCENTED ATE CONDOTION ISOLATED GROUND INC INCANDESCENT STR STARTER INIT INITIAL SW SWITCH		VISUAL DEVICES		WALL MOUNTED SMOKE/HEAT DETECTOR		VOLTAGE AMPACITY RATING
COMB COMBINATION COND CONDUCTOR CONN CONNECTION	JB JUNCTION BOX SWBD SWITCHBOARD SWGR SWITCHGEAR	U +		CONCEALED 1/2" EC TO J			
CONT CONTACTOR CT CURRENT TRANSFORMER CTRL CONTROL	KO KNOCKOUT SYM SYMMETRICAL KV KILOVOLT S/N SOLID NEUTRAL KVA KILOVOLT-AMPERE TC TIME CLOCK		TWO APPLIANCES IN ANY FIELD OF VIEW.			VFD	VARIABLE FREQUENCY DRIVE
CU COPPER CW COLD WATER	KVAR KILOVOLT-AMPERE REACTIVE TEL TELEPHONE KW KILOWATT TV TELEVISION	NFP				5'-0" TO TOP 5'-0"	MANUAL MOTOR STARTER WITH PILOT LIGHT, SURFACE MOUNTED. "F" = FLUSH MOUNTED. MAGNETIC MOTOR STARTER, SURFACE MOUNTED. "F" = FLUSH MOUNTED.
DB DOOR BELL DC DIRECT CURRENT DIM DIMENSION	KWH KILOWATT-HOUR TYP TYPICAL LA LIGHTNING ARRESTER UF UNDERFLOOR LC LOADCENTER UG UNDERGROUND		80" MIN/96" MAX (NFPA) NFPA 72 LATEST ENFORCED EDITION		SIDE WALL	то тор 5'-0"	COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH.
DISC DISCONNECT DR DOOR RELEASE SERVICE DS DOOR SWITCH	LPSLOW PRESSURE SODIUMULUNDERWRITERS' LABORATORIESLTGLIGHTINGUNOUNLESS NOTED OTHERWISE		DWELLING UNIT LOADCENTER			TO TOP 5'-0" RAA	GENERATOR REMOTE ANNUNCIATOR PANEL
DWG DRAWING E OR	LUM LUMENS MAG MAGNETIC VA VOLT MAN MANUAL VA VOLT-AMPERE	7	LC# FIRE PHONE JACK	ADDITIONAL LIGHT SWIT DRAWINGS IN TWO, THE GANG BOXES			
EMER EMERGENCY EL EXISTING TO BE RELOCATED ELEC ELECTRIC(AL)	MAN MANUAL VAR VOLT-AMPERE REACTIVE MATV MASTER ANTENNA TELEVISION VM VOLTMETER MCB MAIN CIRCUIT BREAKER		$\begin{array}{c c} \mathbf{i} & \mathbf{i} \\ \hline \\ $				CONDUIT CONCEALED IN OR BELOW FLOOR SLAB OR BELOW GRADE. CONDUIT EXPOSED OR CONCEALED IN WALL OR ABOVE CEILING.
ELEV ELEVATION/ELEVATOR EM EXISTING TO BE REMOVED	MCCMOTOR CONTROL CENTERWWATT OR WIREMCMTHOUSAND CIRCULAR MILSWPWEATHERPROOFM/GMOTOR/GENERATORWPWEATHERPROOF	44" TO TOP MOST		CH(ES)	WALL OUTLETS VERTICALLY ORIENTED WITH GROUND SLOT	o	CONDUIT TURNED UP.
EML EXIST REMOVED AND RELOCATED TO THIS POSITION EMN EXISTING TO BE REMOVED	MH METAL HALIDE OR MOUNTING XFER TRANSFER HEIGHT XFMR TRANSFORMER MIN MINIMUM	MOST BREAKER	48" MAX (ADA) 42" MIN/54" MAX (NFPA) NFPA 72 LATEST		UP, UNO 54" UNO	•	CONDUIT TURNED DOWN.
AND NEW INSTALLED EMT ELECTRICAL METALLIC TUBING ENCL ENCLOSURE	MLO MAIN LUGS ONLY MOD MOTOR OPERATED DAMPER		ENFORCED EDITION	CALLY ORIENTED,		HOMERUN TO PANEL: PANEL NAME (CIRCUIT #))
ENG ENGINE EP EXPLOSIONPROOF EQUIP EQUIPMENT	MOT MOTOR MS MAGNETIC STARTER MTG MOUNTED OR MOUNTING				FINISHED FLOOR		
ER EXISTING TO REMAIN ERC ELEVATOR RECALL	MTR METER MV MERCURY VAPOR						T BARS INDICATE CONDUCTORS
EWC ELECTRIC WATER COOLER EXIST EXISTING EXT EXTERIOR			ELEVATIONS - ELECTRIC NO SCALE	<u>CAL & FIRE ALARM</u>	DEVICES		ENT GROUND AL (GROUND) (HOT)
-			1 REFER TO SYMBOL LEGEND ON THIS SHEET FOR EXACT HEIGHT OF DEVICES	SINDICATED.			, ,

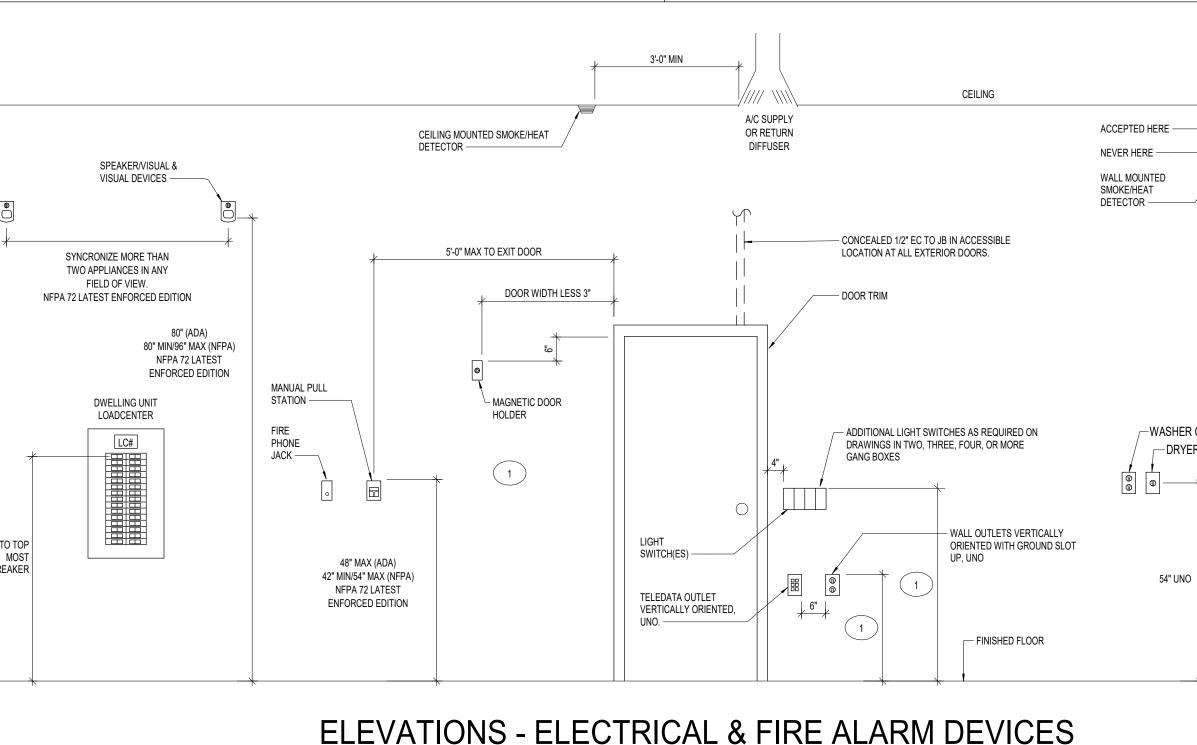
AMP ABV AC ACB AFCI AFD AFF AIC AL AM AMPL ASYM ATS AWG BEL BD BOTT	AMPERE ABOVE ALTERNATING CURRENT ABOVE COUNTER BACKSPLASH ARC FAULT CIRCUIT INTERRUPTER ADJUSTABLE FREQUENCY DRIVE ABOVE FINISHED FLOOR AMPERES INTERRUPTING CAPACITY ALUMINUM AMMETER AMPLIFIER ASYMMETRICAL AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAGE BELOW BUS DUCT BOTTOM
BRKR	BREAKER
C CA CAB CATV	COUNTERTOP CABLE CABINET COMMUNITY ANTENNA TELEVISION OR CABLE TELEVISION
CB CCTV CF CKT	CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION COMPACT FLUORESCENT CIRCUIT
CLG CND	CEILING CONDUIT
CNTR	CENTER
COMB	COMBINATION
COND	CONDUCTOR CONNECTION
CONN	CONTACTOR
CT	CURRENT TRANSFORMER
CTRL	CONTROL
CU	COPPER
CW	COLD WATER
DB	DOOR BELL
DC	DIRECT CURRENT
DIM	DIMENSION
DISC DR	DISCONNECT DOOR RELEASE SERVICE
DS	DOOR RELEASE SERVICE
DWG	DRAWING
E OR	
EMER	EMERGENCY
EL	EXISTING TO BE RELOCATED
ELEC	ELECTRIC(AL)
ELEV	
EM EML	EXISTING TO BE REMOVED EXIST REMOVED AND
	RELOCATED TO THIS POSITION
EMN	EXISTING TO BE REMOVED AND NEW INSTALLED
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENG EP	ENGINE EXPLOSIONPROOF
EQUIP	EQUIPMENT
ER	EXISTING TO REMAIN
ERC	ELEVATOR RECALL
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXT	EXTERIOR

2	FIRE ALARM FIRE ALARM CONTROL PANEL FEEDER FOOTCANDLE FLUORESCENT MOTOR OPERATED FIRE/SMOKE DAMPER FUSIBLE SAFETY SWITCH FIXTURE GARAGE DOOR
	GENERATOR GROUND FAULT
	GROUND
	HORIZONTAL HOSPITAL GRADE HIGH INTENSITY DISCHARGE HEIGHT HAND-OFF-AUTOMATIC HORSEPOWER OR HEAT PUMP HIGH POWER FACTOR HIGH PRESSURE SODIUM HEATER HOT WATER HERTZ
	INTERCOM OR INTERRUPTING CAPACITY ISOLATED GROUND INTERMEDIATE METAL CONDUIT INCANDESCENT INITIAL
	JUNCTION BOX
	KNOCKOUT KILOVOLT KILOVOLT-AMPERE KILOVOLT-AMPERE REACTIVE KILOWATT KILOWATT-HOUR
	LIGHTNING ARRESTER LOADCENTER LOW PRESSURE SODIUM LIGHTING LUMENS
	MAGNETIC MANUAL MASTER ANTENNA TELEVISION MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER THOUSAND CIRCULAR MILS MOTOR/GENERATOR METAL HALIDE OR MOUNTING HEIGHT MINIMUM MAIN LUGS ONLY MOTOR OPERATED DAMPER MOTOR MAGNETIC STARTER MOUNTED OR MOUNTING METER MERCURY VAPOR

C UT SS	NATIONAL ELECTRICAL CODE NEUTRAL NON-FUSIBLE SAFETY SWITCH NUMBER
	OVERHEAD
) - BD C	POLE PULL BOX OR PUSHBUTTON PUSHBUTTON STATION PHASE PANEL PANELBOARD PRIMARY POTENTIAL TRANSFORMER POLYVINYL CHLORIDE POWER
Y	QUANTITY
CPT FRIG C	RECEPTACLE REFRIGERATOR RIGID STEEL CONDUIT
C R R KR	SHORT CIRCUIT CURRENT MOTOR OPERATED SMOKE DAMF SECONDARY SURFACE METAL RACEWAY SPEAKER SURFACE RACEWAY SURGE SUPPRESSOR/ ISOLATED GROUND STARTER
BD GR M	SURVER SWITCH SWITCHBOARD SWITCHGEAR SYMMETRICAL SOLID NEUTRAL
	TIME CLOCK TELEPHONE TELEVISION TYPICAL
D	UNDERFLOOR UNDERGROUND UNDERWRITERS' LABORATORIES UNLESS NOTED OTHERWISE
R	VOLT VOLT-AMPERE VOLT-AMPERE REACTIVE VOLTMETER
	WATT OR WIRE WEATHERPROOF
ER MR	TRANSFER TRANSFORMER

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ELECTDICAL SVMBOL LECENID



GENERAL NOTES

NOTES (ELECTRICAL SYMBOL LEGEND)

THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS. HOWEVER, WHEREVER THIS SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE FURNISHED AND INSTALLED.

2. UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET. WHERE THE MOUNTING HEIGHT INDICATED ON PLAN IS DIFFERENT FROM THE LEGEND, THE PLAN TAKES PREDEDENT.

INSTALL RECEPTACLE AND TELEPHONE OUTLET BOXES (OR OTHER OUTLET BOXES SUCH AS TV, COMPUTER, ETC.) 6" APART (EDGE TO EDGE) WHERE SHOWN SIDE BY SIDE ON WALL.

I. SEE ELECTRICAL ABBREVIATIONS FOR ALPHABETIC SUBSCRIPT WITH SYMBOL, UNO.

5. ARROW(S) INDICATE DIRECTION OF MAXIMUM LIGHT DISTRIBUTION. "
 SHADED LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT.

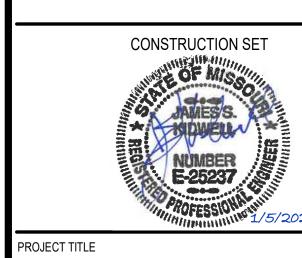
7. INSTALL DETECTOR BETWEEN 0'-4" AND 1'-0" DOWN FROM THE CEILING TO THE TOP OF THE DETECTOR, UNO. FIRE ALARM VISUAL DEVICE (STAND-ALONE OR INTEGRAL STROBE) SHALL BE LOCATED 30 INCHES TO THE BOTTOM ABOVE OF HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6" TO THE TOP BELOW CEILING, WHICHEVER IS LOWER.

REFER TO THE OTHER ABBREVATION LISTS ELSEWHERE IN THESE DOCUMENTS FOR ABBREVIATIONS NOT LISTED HERE.

MOUNT ALL SINGLE AND DUPLEX WALL MOUNT RECEPTACLES VERICALLY WITH GROUND PIN SLOT UP, EXCEPT RECEPTACLES MOUNTED HORIZONTALLY WITH GROUND PIN SLOT TO THE LEFT.

<u>í CÔI</u>	DE SUMMARY	\sim
 2018 2018 2017 2016 2016 	MISSOURI BUILDING CODE MISSOURI ENERGY CODE NFPA 70 - NATIONAL ELECTRIC CODE NFPA 72 NFPA 110 - STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS	
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SHEET LIST - ELECTRICAL				
SHEET				
NUMBER	SHEET NAME			
E0.0	ELECTRICAL SYMBOL LEGEND & ABBREVIATIONS			
E0.1	ELECTRICAL DETAILS			
E0.2	LUMINAIRE SCHEDULES & LIGHTING CONTROLS DETAILS			
E0.3	MECHANICAL & PLUMBING EQUIPMENT ELECTRICAL CONNECTION SCHEDULE			
E0.4	ELECTRICAL SITE PLAN			
E1.1	FIRST FLOOR PLAN - LIGHTING			
E1.2	SECOND FLOOR PLAN - LIGHTING			
E1.3	THIRD FLOOR PLAN - LIGHTING			
E1.4	FOURTH FLOOR PLAN - LIGHTING			
E2.1	FIRST FLOOR PLAN - POWER			
E2.2	SECOND FLOOR PLAN - POWER			
E2.3	THIRD FLOOR PLAN - POWER			
E2.4	FOURTH FLOOR PLAN - POWER			
E2.5	ROOF PLAN - POWER			
E3.1	ENLARGED PLANS - ELECTRICAL			
E3.2	ENLARGED PLANS - ELECTRICAL			
~~~~Ę3&~~~~	ENLARGEDPLANS-ELECTRICAL			
E4.1	ELECTRICAL ONE-LINE DIAGRAM			
E5.1	PANELBOARD SCHEDULES			
<u>E5.2</u>	PÄNELBOARDSCHEDÜLES			
E5.3	PANELBOARD SCHEDULES			
E5.4	PANELBOARD SCHEDULES			
E6.1	FIRST FLOOR PLAN - FIRE ALARM			
E6.2	SECOND FLOOR PLAN - FIRE ALARM			
E6.3	THIRD FLOOR PLAN - FIRE ALARM			
E6.4	FOURTH FLOOR PLAN - FIRE ALARM			
E6.5	FIRE ALARM RISER			
E6.6	FIRE ALARM DETAILS			



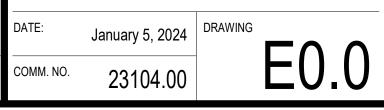


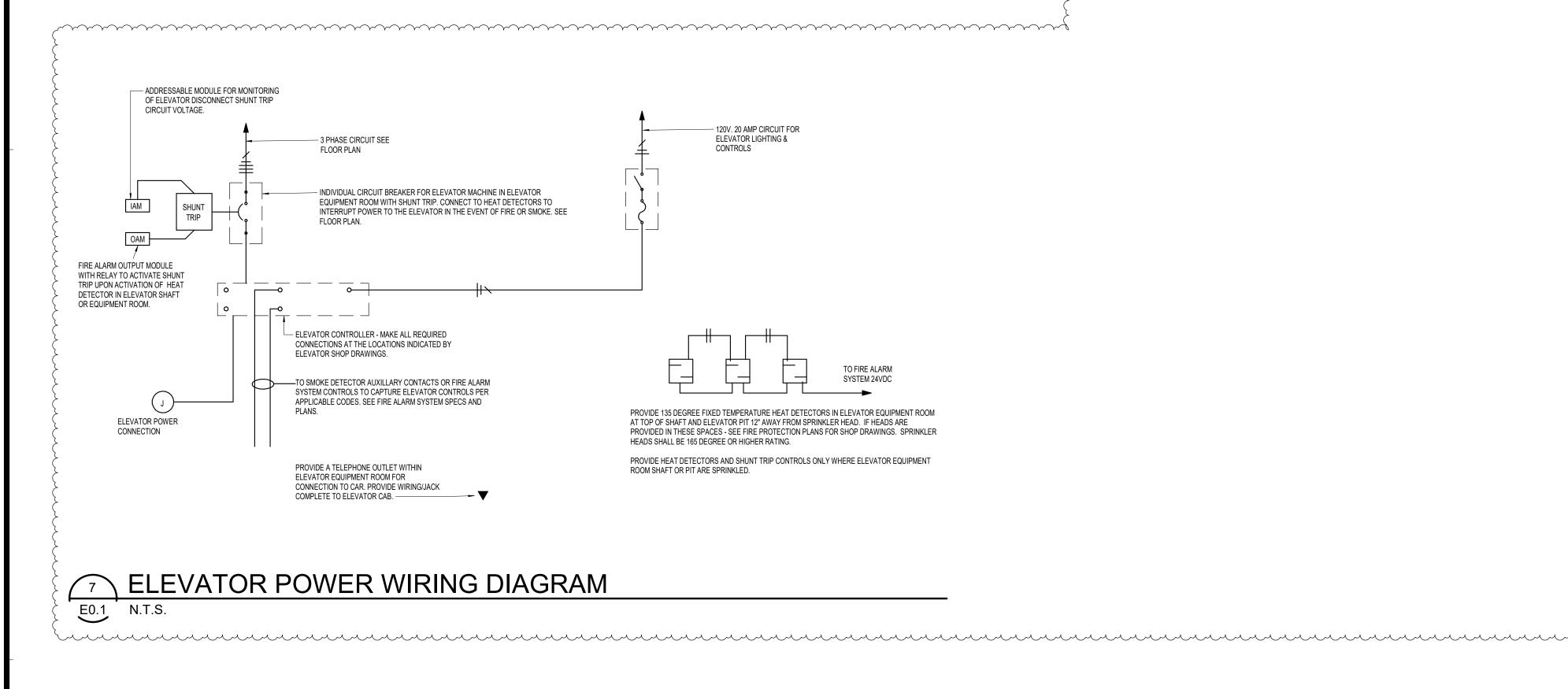
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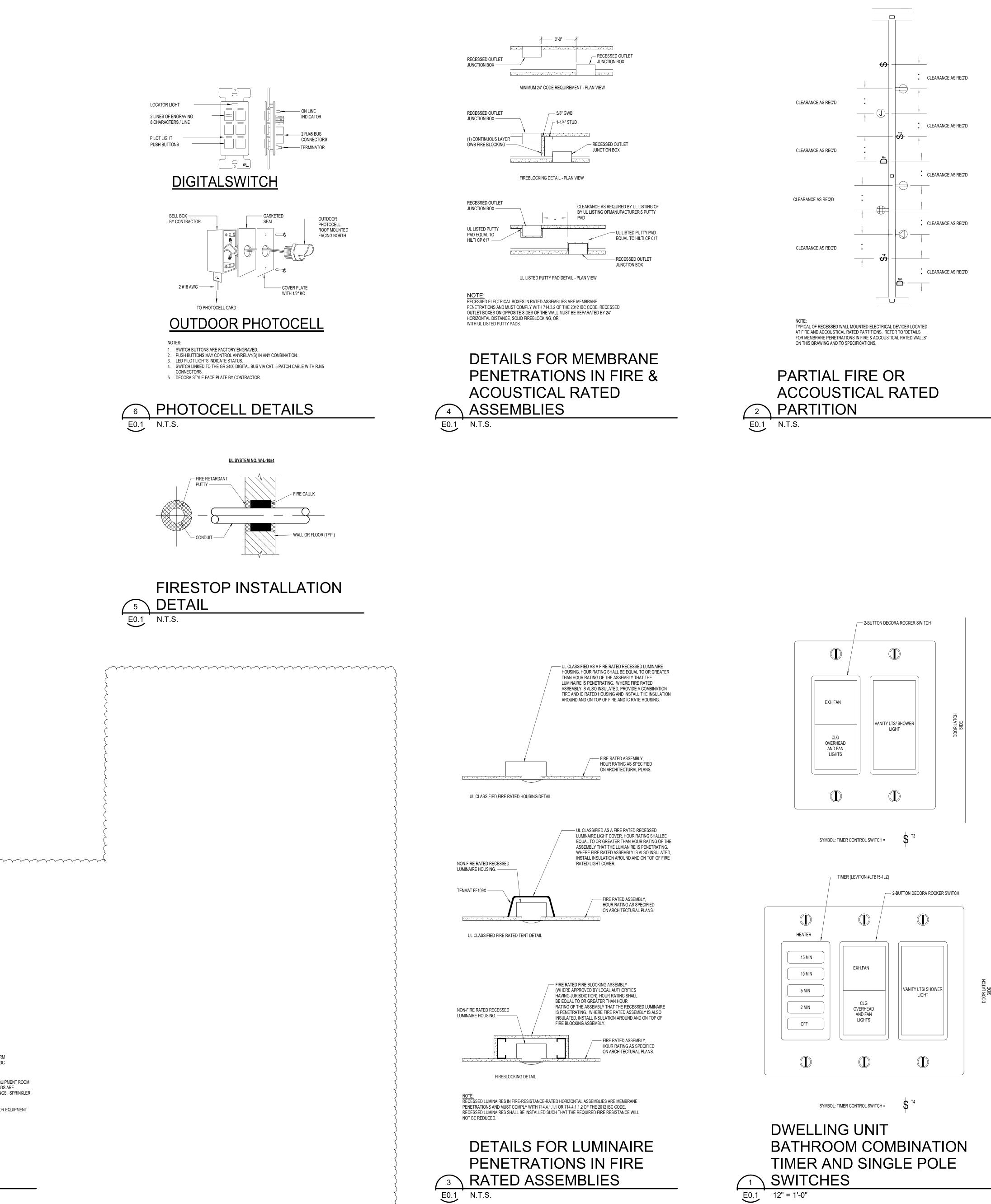
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3	Addendu	ım #1		03/07/24
NO.	REVISION E	DESCRIPTION		DATE
ENGINEER : MAW		APPROVED	JSK	
ARCHITECT : DAS		CHECKED	MAW	
DESIGNER 🖞 DAS		DRAWN	MAW,	, DKW

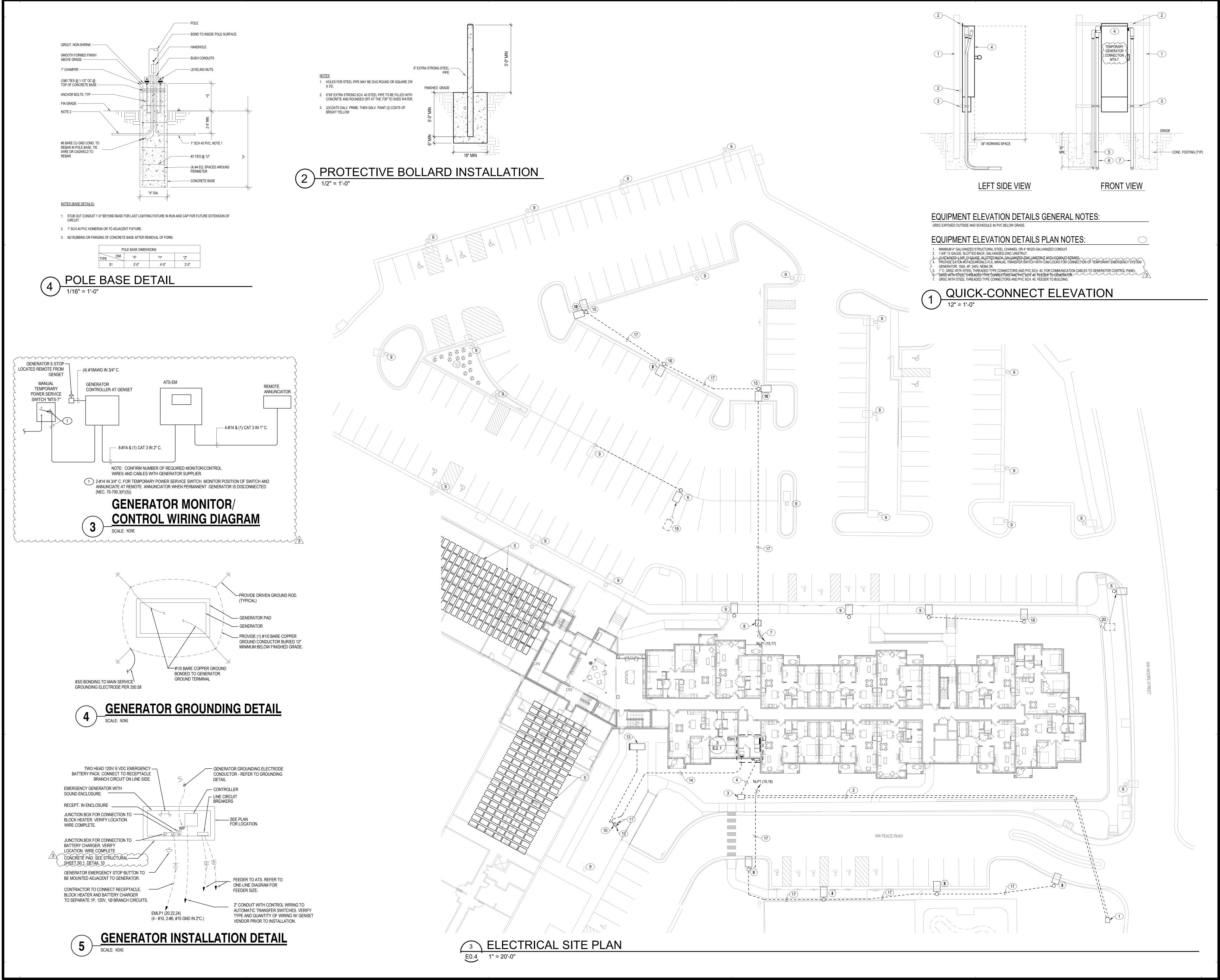
# DRAWING TITLE ELECTRICAL SYMBOL LEGEND & ABBREVIATIONS





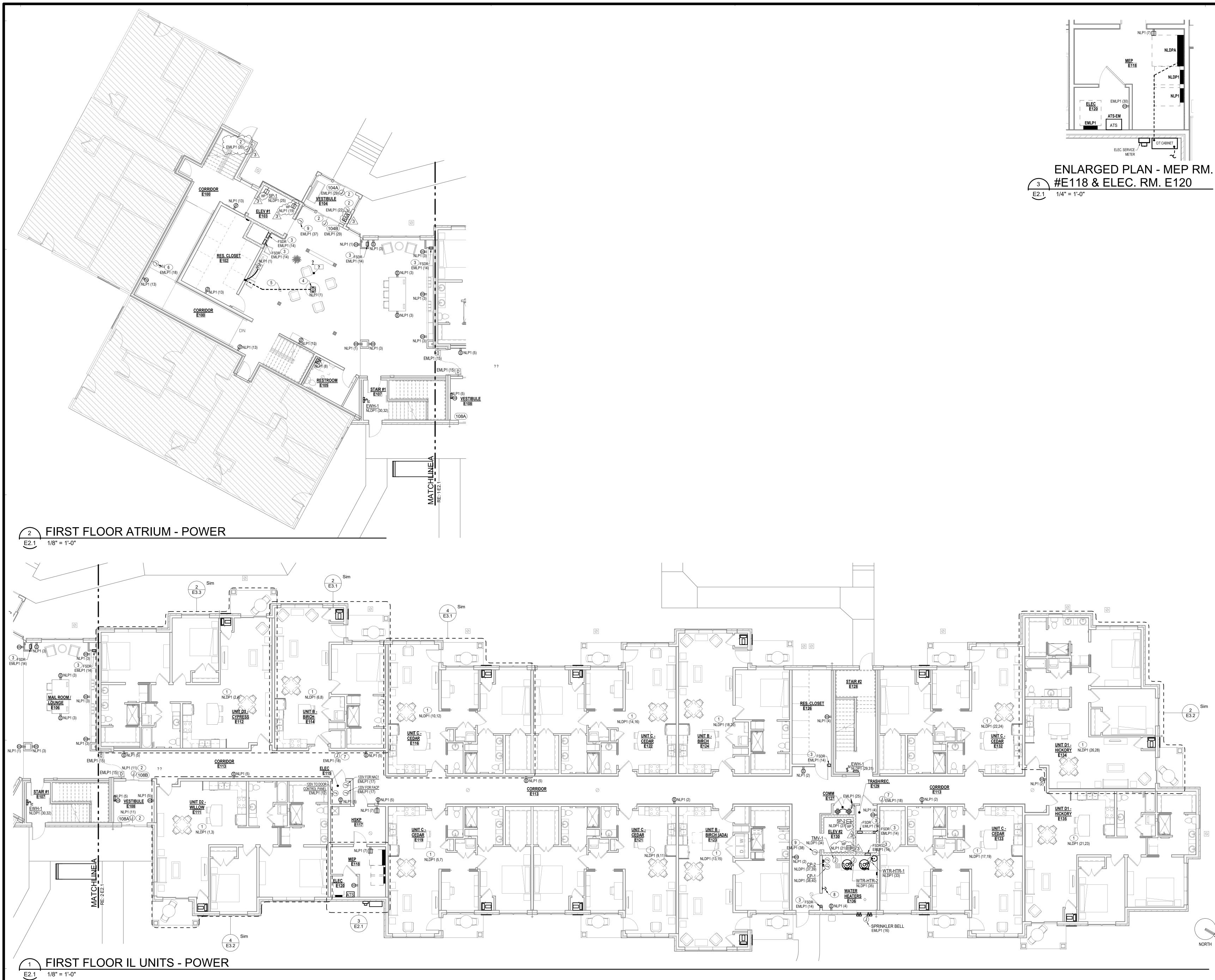


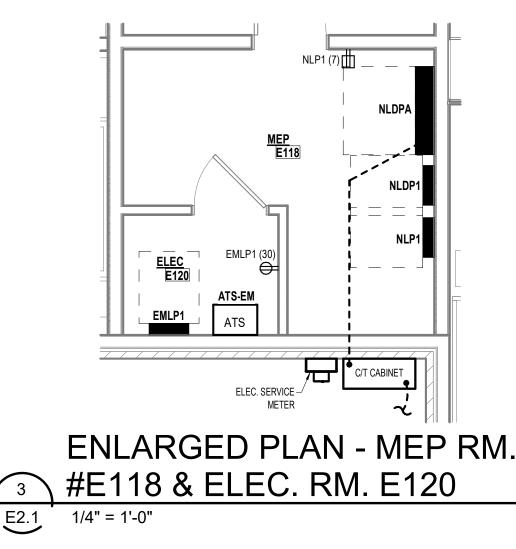


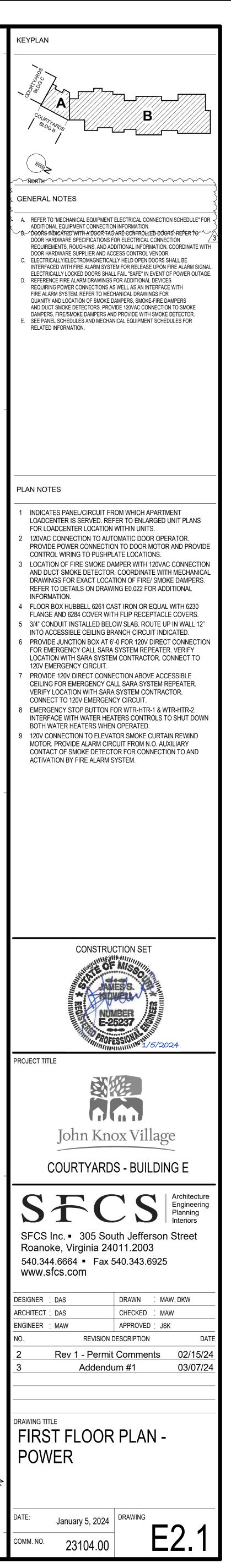


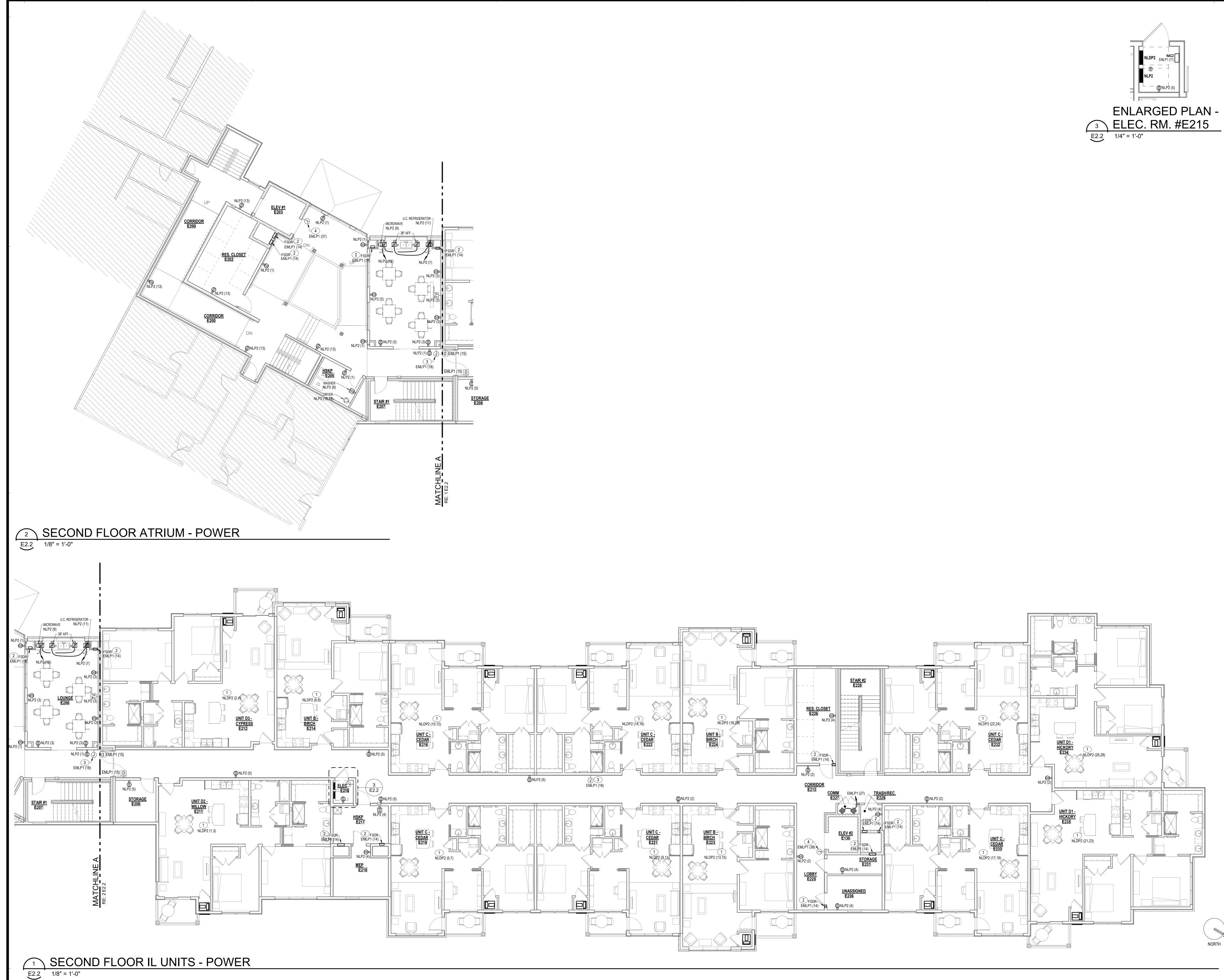
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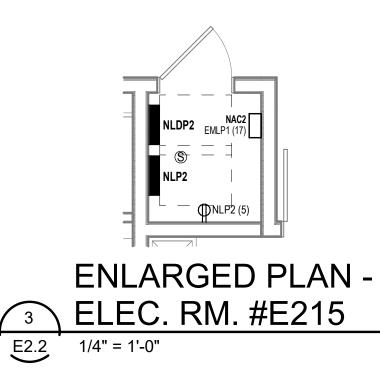
PLA	N NOTES (#)			
1.	EXISTING UTILITY PAD MOUNTED SWITCH			
	TWO (2) 4" SCH. 40 PVC FOR PRIMARY PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. UTILITY PROVIDER TO PROVIDE AND INSTALL CONDUCTORS.			
3.	PAD MOUNTED UTILITY SERVICE TRANSFORMER PROVIDED AND INSTALLED BY UTILITY. E.C. TO PROVIDE AND INSTALL CONCRETE TRANSFORMER PAD PER UTILITY REQUIREMENTS.			
4.	UNDERGROUND SERVICE LATERAL. – 4 SETS OF (4 - #500 KCMIL ALUMINUM IN 3 ½"C.)			
5.	EXISTING SOLAR ARRAY AND DISTRIBUTION ON EXISTING BUILDING ROOF TO BE RELOCATED OR REMOVE.			
6.	TO BE RELOCATED. PROVIDE NEW UNDERGROUND WIRING AND RECONNECT TO EXISTING CIRCUIT.			
7.	PROVIDE AND INSTALL TWO (2) 2" SCH 40 PVC WITH PULL STRING FROM PANEL NLP1 TO PULLBOX. (1) CONDUIT IS FOR FUTURE AND (1) CONDUIT TO HAVE 2#10, 1#10G FOR NEW LIGHTING CIRCUIT.			
8. 9	PROVIDE AND INSTALL 12"X12" PULLBOX. EXISTING LIGHTING POLES TO REMAIN.			
	ROLL-UP TEMPORARY GENERATOR CONNECTION CABINET ON STRUT FRAME. REF: ONE-LINE DIAGRAM, E4.1, AND			
11.	DETAIL ON THIS SHEET PROTECTIVE BOLLARD. REF: ONE-LINE DIAGRAM AND			
12.	DETAIL ON THIS SHEET GENERATOR EMERGENCY STOP BUTTON. TAMPER			
	RESISTANT. MOUNTED AT 48"AFF ADJACENT TO OPENING OF GENERATOR DOOR. INTERFACE WITH GENERATOR CONTROLS TO SHUT GENERATOR DOWN WHEN OPERATED. 36 KW EMERGENCY GAS GENERATOR SET WITH CONCRETE			
14.	PAD. REFER TO DETAILS ON THIS SHEET FOR ADDITIONAL GENERATOR RELATED CONNECTIONS, DETAILS AND INFORMATION. REFER TO ONE-LINE DIAGRAM SHEET E4.1 UNDERGROUND FEEDER FROM EMERGENCY GAS			
14.	GENERATOR TO ATS-EM IN ELEC. ROOM #E120. INSTALL 36" BELOW GRADE. REFER TO ONE-LINE DIAGRAM SHEET E4.1.			
15	REMOVE EXISTING POLE AND LIGHT FIXTURE. POLE BASE TO REMAIN. INSTALL NEW POLE AND (2) LIGHT FIXTURES ON EXISTING POLE BASE. INTERCEPT EXISTING UNDERGROUND CIRCUIT, DISCONNECT AND INSTALL NEW UNDERGROUND CIRCUIT AS SHOWN. ENSURE NEW POLE MATCHES UP TO EXISTING ANCHORE BOLT SPACING PATTERN.			
16	NEW POLE BASE, POLE AND LIGHT FIXTURE. SEE POLE BASE DETAIL.			
17 18				
19				
20	REMOVE POLE AND LIGHT FIXTURE FROM EXISTING POLE BASE. DEMO EXISTING POLE BASE. INSTALL NEW POLE BASE AND COORDINATE LOCATION WITH CIVIL ENGINEER. ENSURE ANCHOR BOLTS IN NEW POLE BASE MATCHES WITH EXISTING POLE. INSTALL EXISTING POLE AND LIGHT FIXTURE ON NEW POLE BASE. INTERCEPT EXSTING UNDERGROUND CIRCUITING AND CONNECT TO NEW POLE BASE.			
	CONSTRUCTION SET			
	John Knox Village COURTYARDS - BUILDING E			
R 54	SFCS Inc. • 305 South Jefferson Street oanoke, Virginia 24011.2003 40.344.6664 • Fax 540.343.6925 ww.sfcs.com			
ARCH	GNER     DAS     DRAWN     MAW, DKW       HITECT     DAS     CHECKED     MAW       NEER     MAW     APPROVED     JSK       REVISION DESCRIPTION     DATE			
1 3	FDP 1         02/22-24           Addendum #1         03/07/24			
	DRAWING TITLE ELECTRICAL SITE PLAN			
DATE	January 5, 2024			
COMM	^{A. NO.} 23104.00 EO.4			

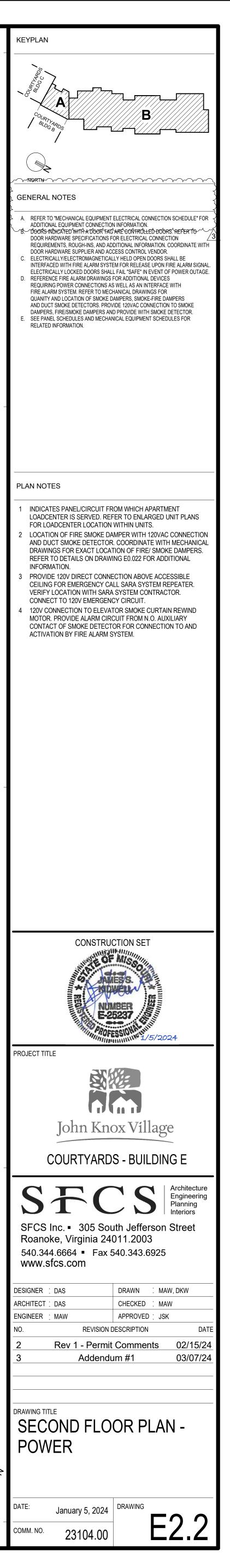






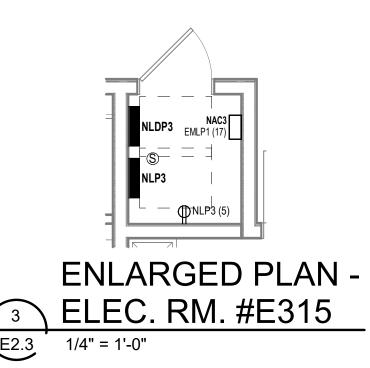


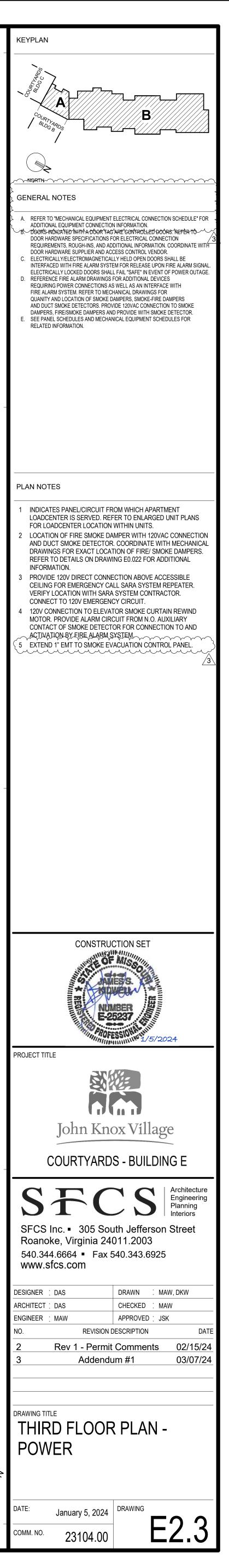


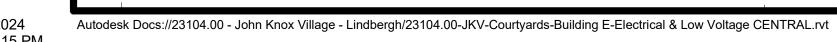


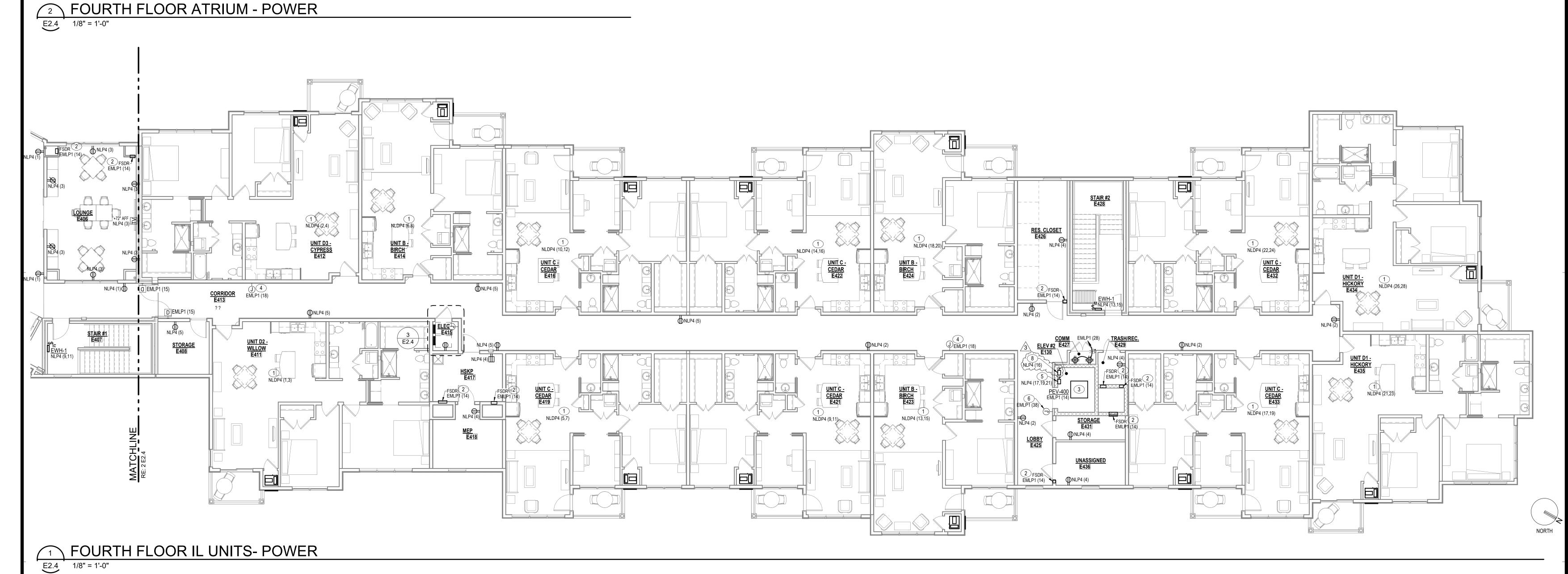


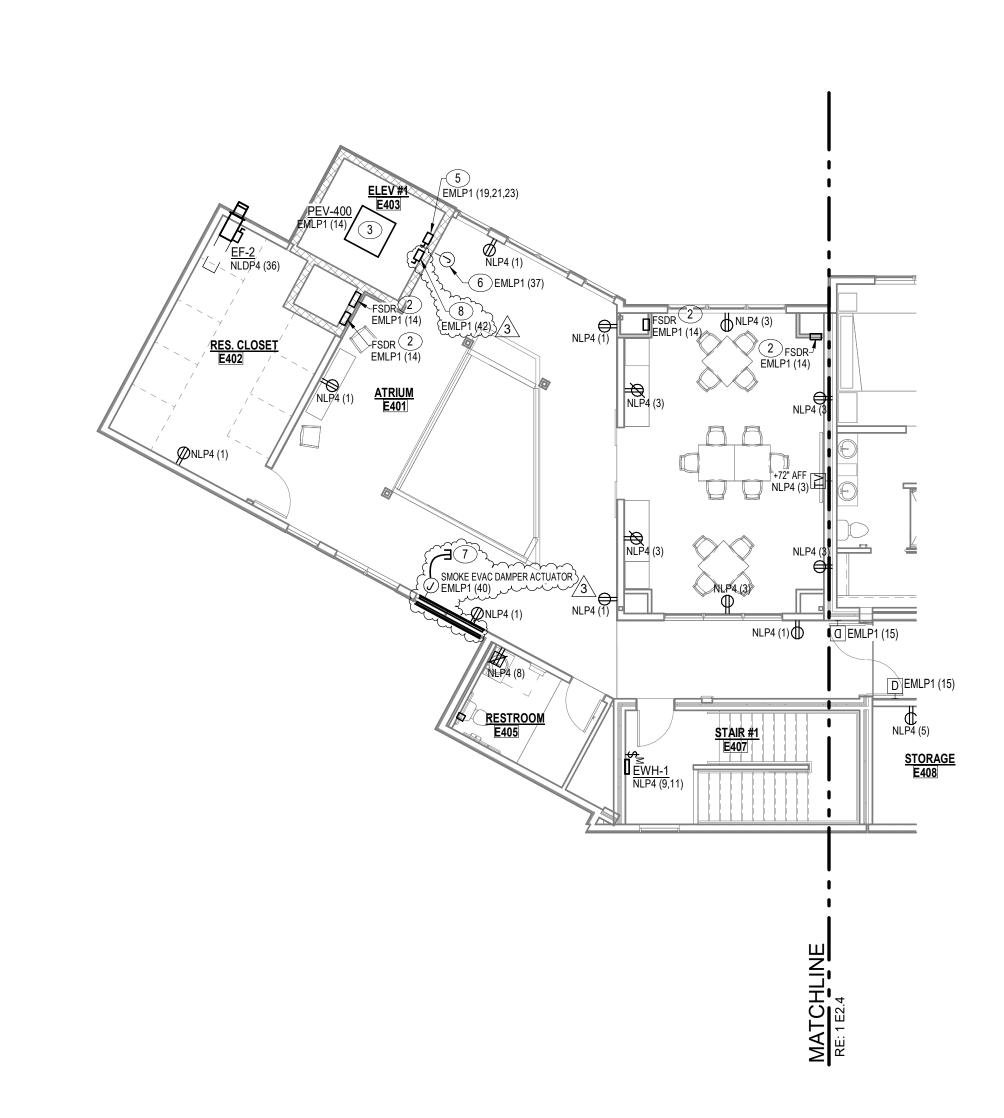
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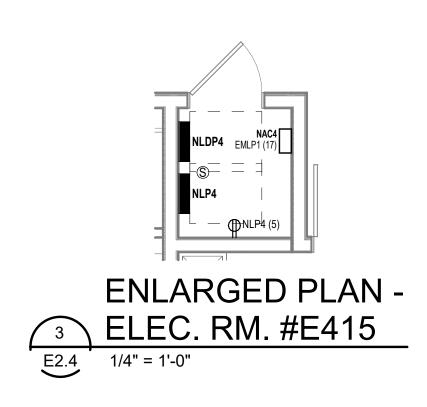


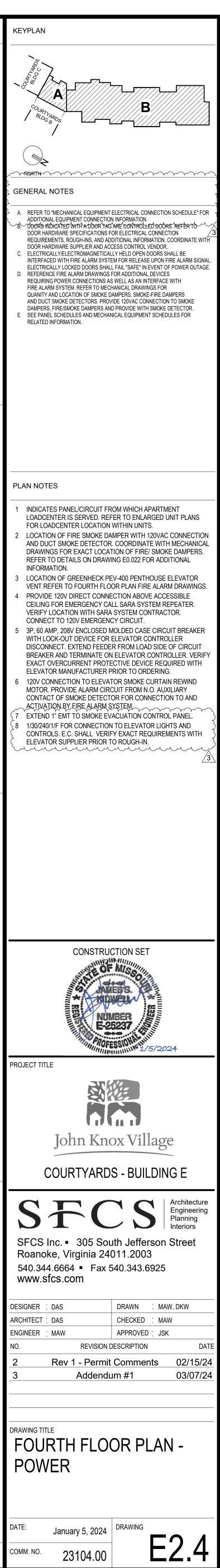


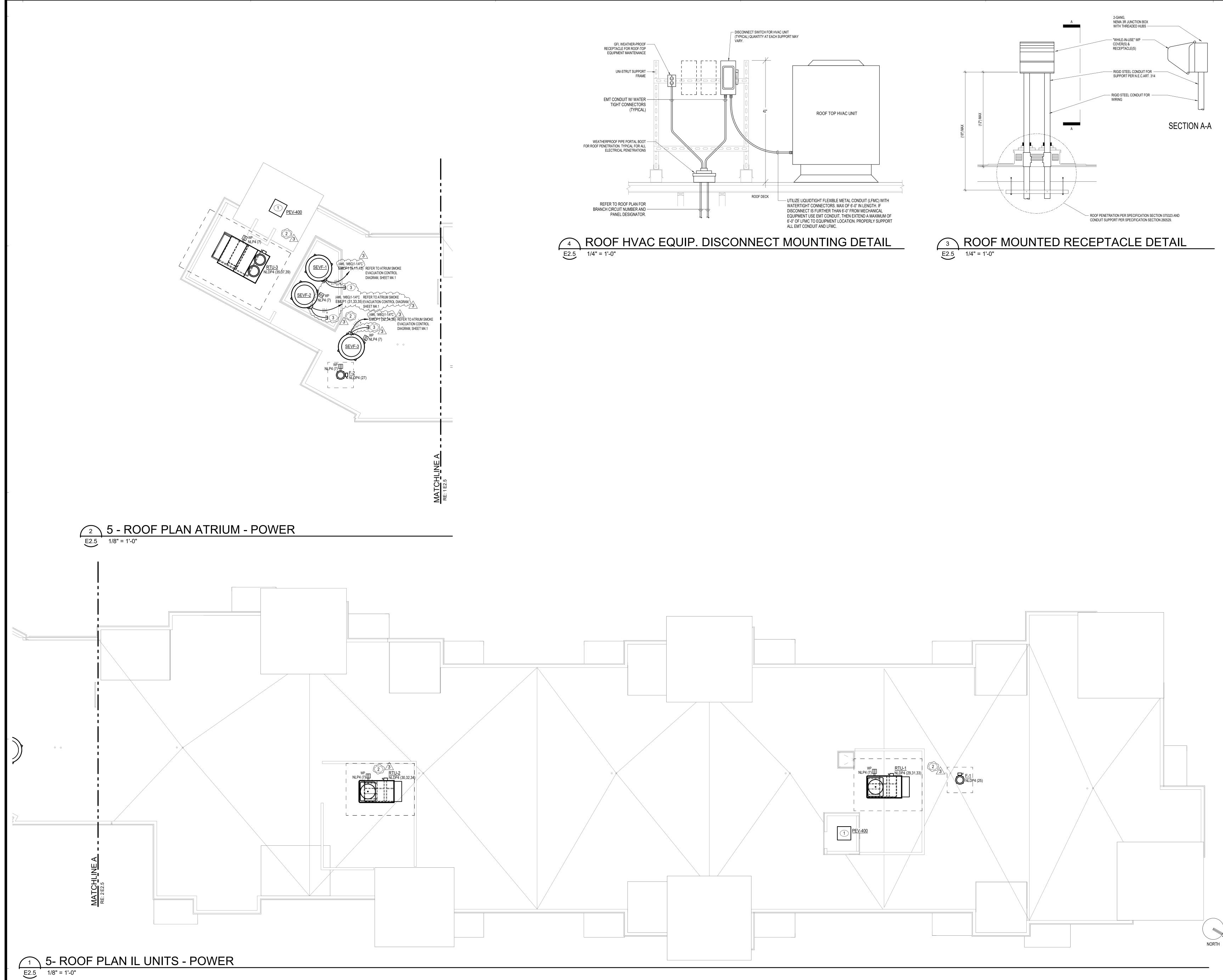








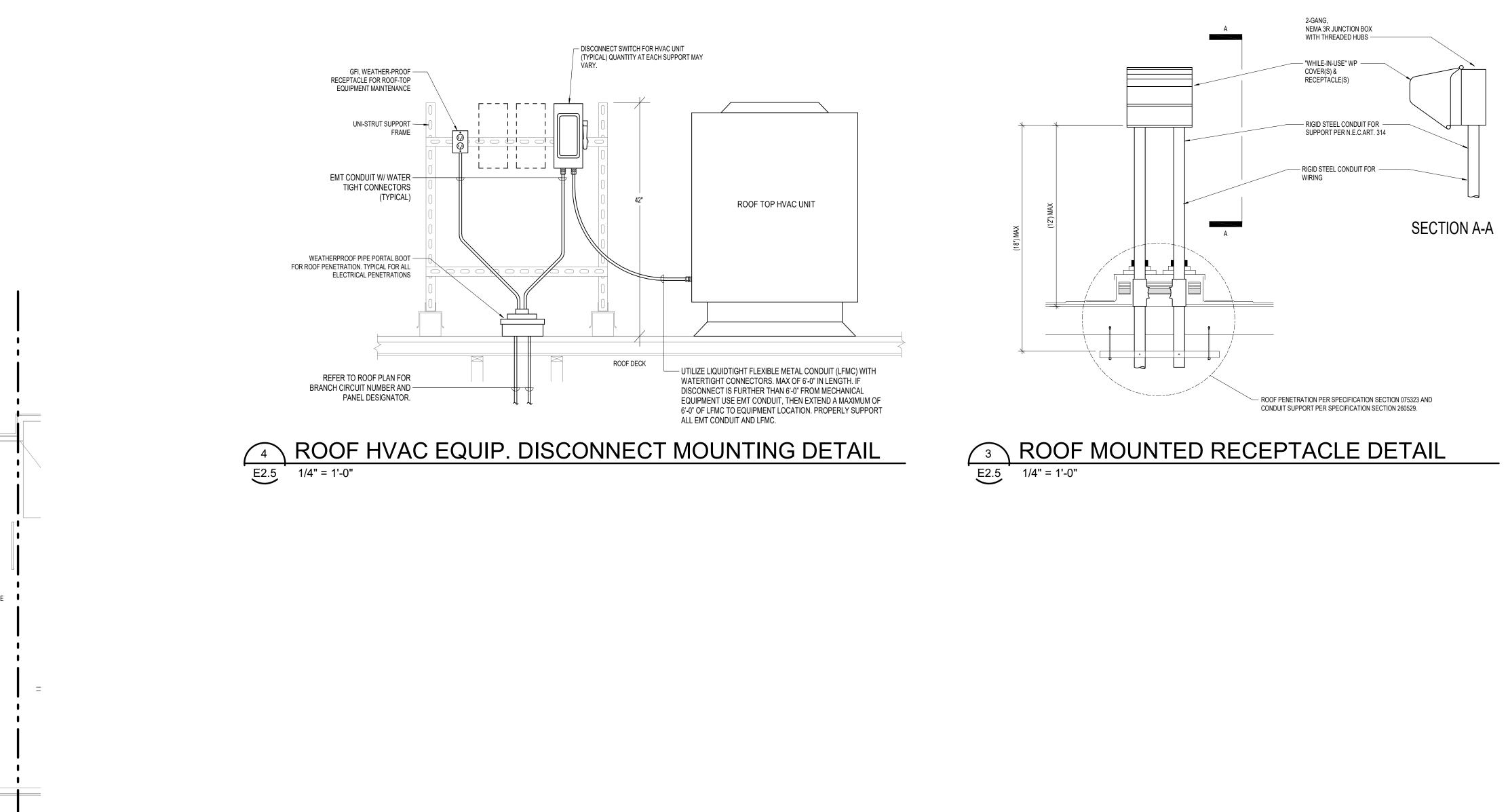


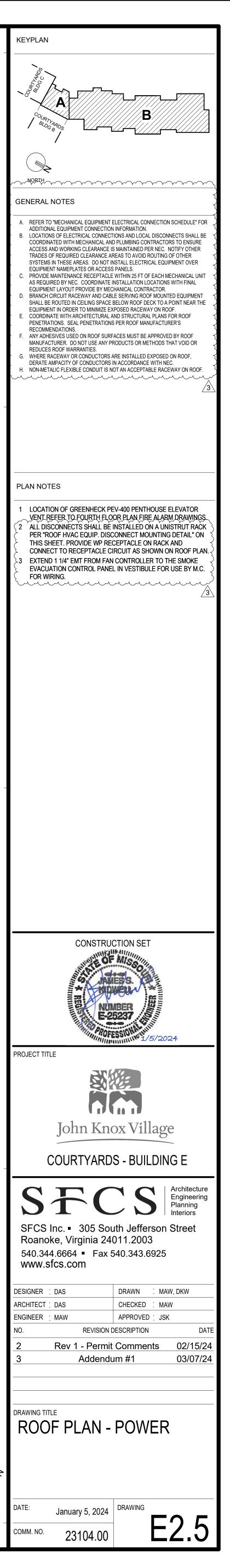


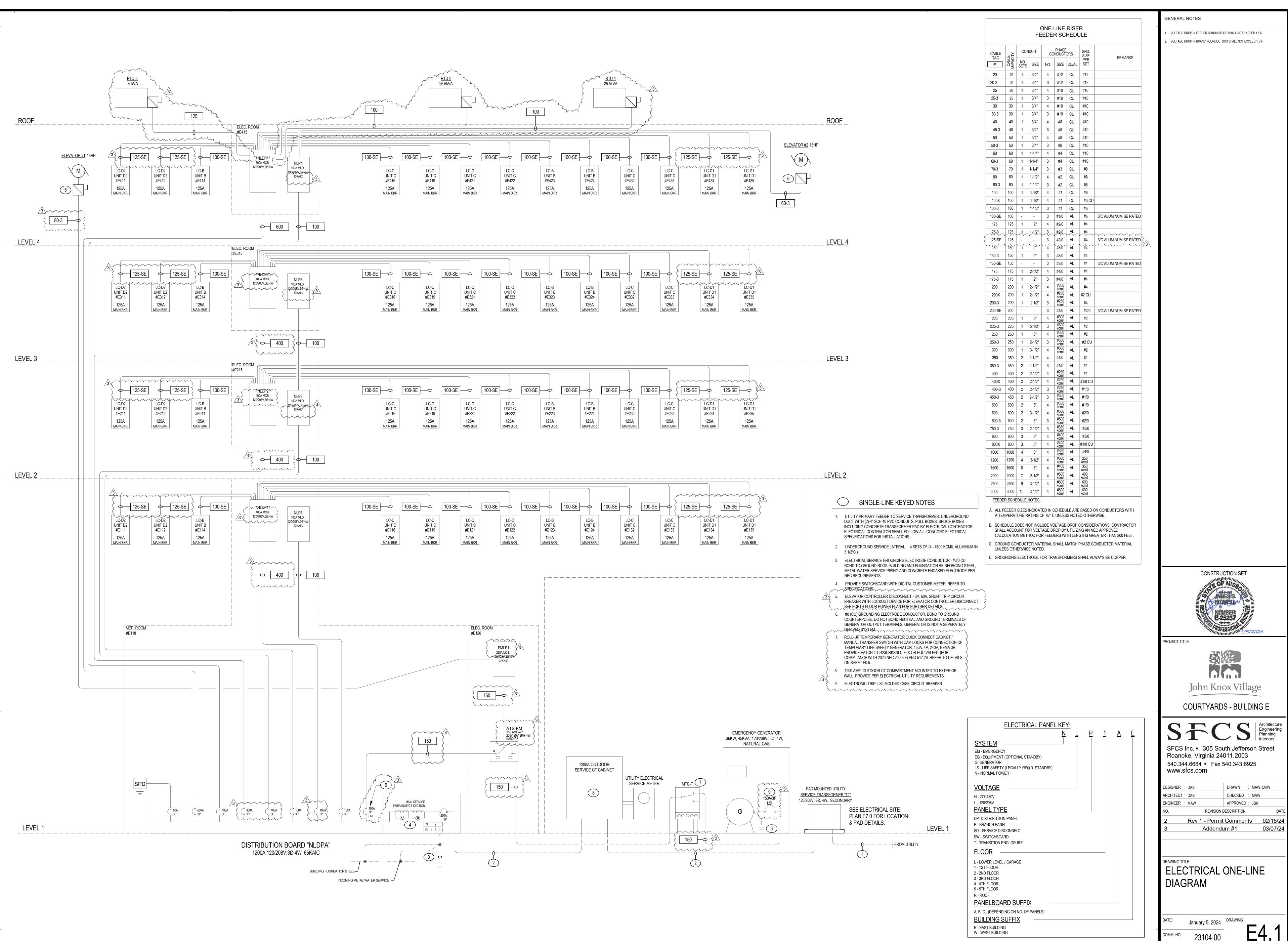
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WP

Autodesk Docs://23104.00 - John Knox Village - Lindbergh/23104.00-JKV-Courtyards-Building E-Electrical & Low Voltage CENTRAL.rvt







GENERAL	NOTES
•=	

	Location: ELEC E215 Supply From: NLDPA Mounting: SURFACE Enclosure: NEMA 1					Volts: hases: Wires:		)8 Wye			(	A.I.C. Rating: 22,000 Mains Type: MLO Mains Rating: 400 A MCB Rating:	~3_	
lotes	:													
CKT		Y Y-	Poles	<u> </u>	<b>A</b>		₿	~~~	<b>c</b>				escription	СКТ
1	LC-D2 - UNIT #E211	125 A	2	11044	11044	44044	44044			2		LC-D2 - UNIT #E212		2
3 5		 100 A		Lu	hu	11044	11044	0000174	9857 VA		 	  LC-B-UNIT#É214		4
5 7		100 A		0030 \/A	9857 VA			9930 VA	AV 1006		100 A	LO-D - UNIT #E214		8
9	 LC-C - UNIT #E221	100 A	2	3350 VA	3031 VA		9930 VA			2		 LC-C - UNIT #E216		10
<u> </u>						0000 VA		9930 VA	9930 VA					12
13	LC-B - UNIT #E223	100 A	2	9857 VA	9930 VA					2	100 A	LC-C - UNIT #E222		14
15						9857 VA	9930 VA							16
17	LC-C - UNIT #E233	100 A	2					9930 VA	9857 VA	2	100 A	LC-B - UNIT #E224		18
19	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	9930 VA	9857 VA									20
21	LC-D1 - UNIT #E235	125 A	2			11080	9930 VA			2	100 A	LC-C - UNIT #E232		22
23							Brow	11080	9930 VA		~~~~		~~~~~~	24
25	SPARE	20 A	1	0 VA	11080					2		LC-D1 - UNIT #E234		26
27	SPARE	20 A	1			0 VA	11080							28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE		30
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE		32
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE		34
35	SPACE		1						0 VA	1	20 A	SPARE		36
37	SPACE		1		0 VA					1	20 A	SPARE		38
39	SPACE		1							1		SPACE		40
	SPACE		1							1		SPACE		42
		Total	Load:	9252	26 VA	9382	23 ∀A	8044	IT VA					uu
eger	d:	Total	Amps:	78	7 A	79	7 A	67	0 A					
.oad	Classification	Conr	nected	Load	Dem	nand Fa	actor	Estim	ated De	emand		Panel	Totals	
Reside	ential per NEC 220.84	26	66789 \	/A		41.00%	þ	1(	09383 \	/Α				
												Total Conn. Load:		
												Total Est. Demand:		
												Total Conn.:		
												Total Est. Demand:	304 A	
		-												

	E	Branch Panel: NLDP4										
		Location: ELEC E415 Supply From: NLDPA Mounting: SURFACE Enclosure: NEMA 1					Volts: hases: Wires:	-	8 Wye			
	Notes	:										
	CKT	Circuit Description	Trip	Poles		4		3		¢	Poles	
Ę	1	LC-D2 - UNIT #E411	125 A	2	11044	11044					2	Ī
Ç	3						11044	11044				t
	5	LC-C-UNIT#E419	100 A	2		m	m	m	9930 VA	9857 VA	2	t
	7				9930 VA	9857 VA						T
	9	LC-C - UNIT #E421	100 A	2			9930 VA	9930 VA			2	Ī
	11								9930 VA	9930 VA		Ī
	13	LC-B - UNIT #E423	100 A	2	9857 VA	9930 VA					2	
	15						9857 VA	9930 VA				Ι
	17	LC-C - UNIT #E433	100 A	2					9930 VA	9857 VA	2	
	-19-			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	9930-VA	9857 VA	$\sim$	$\sim$	$\sim$			
{	21	LC-D1 - UNIT #E435	125 A	2			11080	9930 VA		Ş	2	
{	23								11080	-9930.VA	~~~	$\frac{1}{1}$
	25	F-1(IL-ROOF)	20A	m	700 VA	11080					2	
	27	F-2 (ATRIUM ROOF)	20 A	1	ζ	1	528 VA	11080				
	29	RTU-1	90 A	3					8520 VA	8520 VA	3	ĺ
	31				8520 VA	8520 VA						
	33						8520 VA	8520 VA				
	35	RTU-3	110 A	3			$\sim$		9960 VA	528 VA	m-	ł
	37				9960 VA	0 VA					1	
	39				$\sim$		9960 VA	0 VA			1	
(	41	SPARE	20 A						0 VA	0 VA	1	
				Load:		26 VA		51 VA		69 VA	ſ	
	-	-	Total	Amps:	101	8 A	102	27 A	90	0 A		
	Legen	α:										
	Load (	Classification	Conr	nected	Load	Dem	and Fa	actor	Estim	ated De	emand	Τ
	HVAC		8	2228 V	A	1	100.00%	6	8	2228 V	A	t
	Power			528 VA		-	100.00%	6		528 VA		Τ

266789 VA

41.00%

109383 VA

Residential per NEC 220.84

Panel	Panel Totals					
Total Conn. Load:	266789 VA					
Total Est. Demand:	109383 VA					
Total Conn.:	741 A					
Total Est. Demand:	304 A					
	1					

CKT	Circuit Description	Trip	Poles		<b>A</b>		B			Poles	Trip	Circuit De
1	LC-D2 - UNIT #E111	125 A	2	11044	11044	<u> </u>				2	125 A	LC-D2 - UNIT #E112
3						11044	11044					
-5-	LC-C-UNIT#EI19	100 A	$\sim$	h	pu	m	per	9930 VA	9857 VA	2	100 A	LC-B-UNIT#E114
7				9930 VA	9857 VA							
9	LC-C - UNIT #E121	100 A	2			9930 VA	9930 VA			2	100 A	LC-C - UNIT #E116
11								9930 VA	9930 VA			
13	LC-B - UNIT #E123	100 A	2	9857 VA	9930 VA					2	100 A	LC-C - UNIT #E122
15						9857 VA	9930 VA					
17	LC-C - UNIT #E133	100 A	2					9930 VA	9857 VA	2	100 A	LC-B - UNIT #E124
19				9930 VA	9857 VA	$\sim$						
21	LC-D1 - UNIT #E135	125 A	2			11080	9930 VA		}	2	100 A	LC-C - UNIT #E132
23								11080	-9930-VA	$\sim$	~~~~	
25	SP-1	20 A	pp	1176 VA	11080					2	125 A	LC-D1 - UNIT #E134
27	SP-2	20 A	1		>	1176 VA	11080					
29	EWH-1 (STAIRWELL #2, 1ST FLOOR)	20 A	2		pu	m	hin	1500 VA	1500 VA	2	20 A	EWH-1 (STAIRWELL #1, 1
31				1500 VA	1500 VA							
33	WTR-HTR-1 (CONTROLS)	20 A	1			600 VA	240 VA			1	20 A	TMV-1 (CONTROLS)
35	WTR-HTR-2 (CONTROLS)	20 A	1					600 VA				
37	CP-2	20 A	2	562 VA	562 VA					2	20 A	CP-1
39						562.VA	562 VA		$\sim$			
41	SPARE	20 A	1				· · ·	0 VA	0 VA	1	20 A	SPARE
		Tota	Load	9782	25 VA	9696	2 VA	8404	1VA ^	<u> </u>	the second	turner.
		Total	Amps:	83	2 A	82	5 A	70	) A	1		

Volts: 120/208 Wye

Phases: 3

Wires: 4

Branch Panel: NLDP1

Location: MEP E118

Mounting: SURFACE

Enclosure: NEMA 1

Supply From: NLDPA

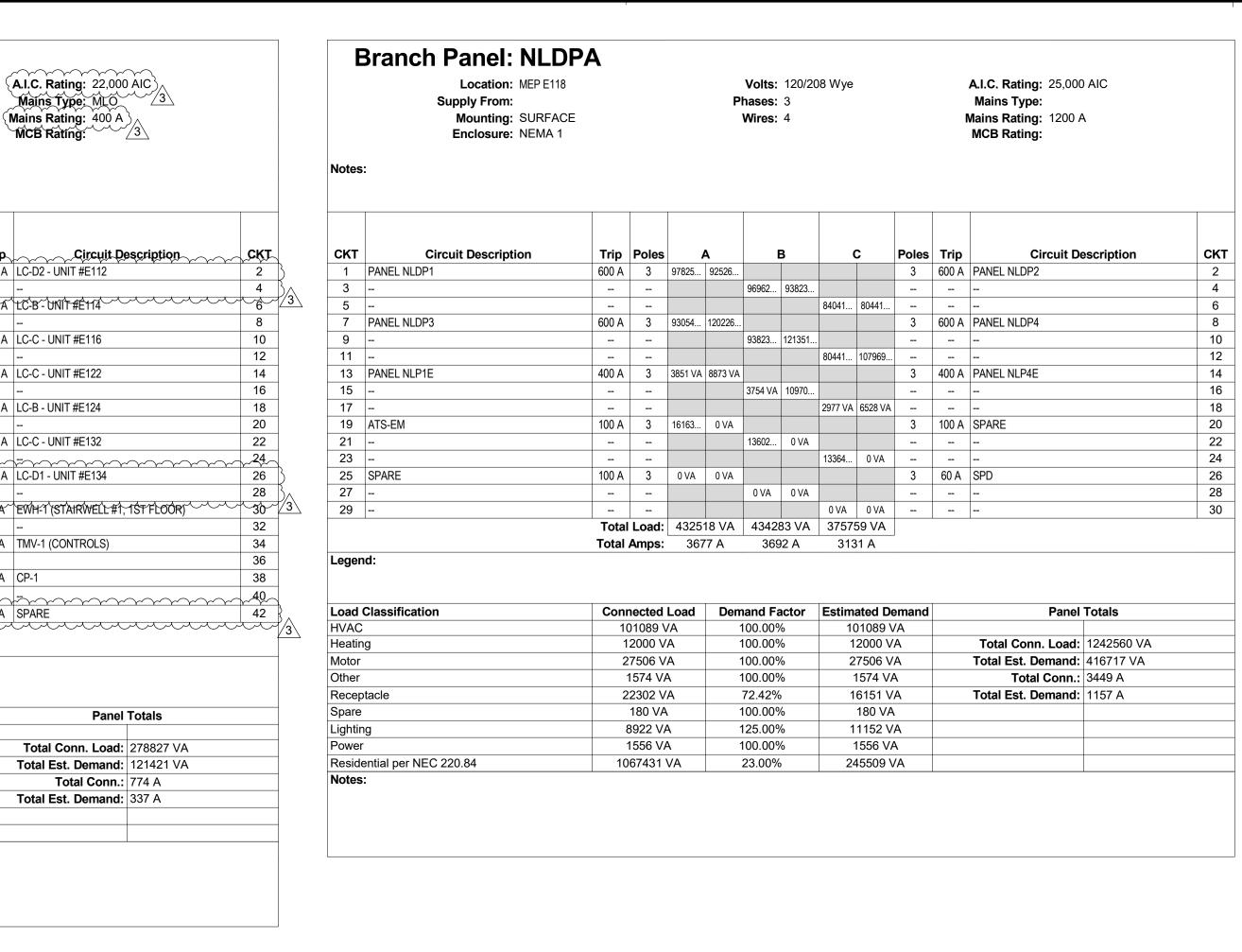
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Tot
Heating	6000 VA	100.00%	6000 VA		
Motor	2246 VA	100.00%	2246 VA	Total Conn. Load:	278
Receptacle	3792 VA	100.00%	3792 VA	Total Est. Demand:	121
Residential per NEC 220.84	266789 VA	41.00%	109383 VA	Total Conn.:	774
				Total Est. Demand:	337
					<u> </u>
Notes:	1		1		<u> </u>

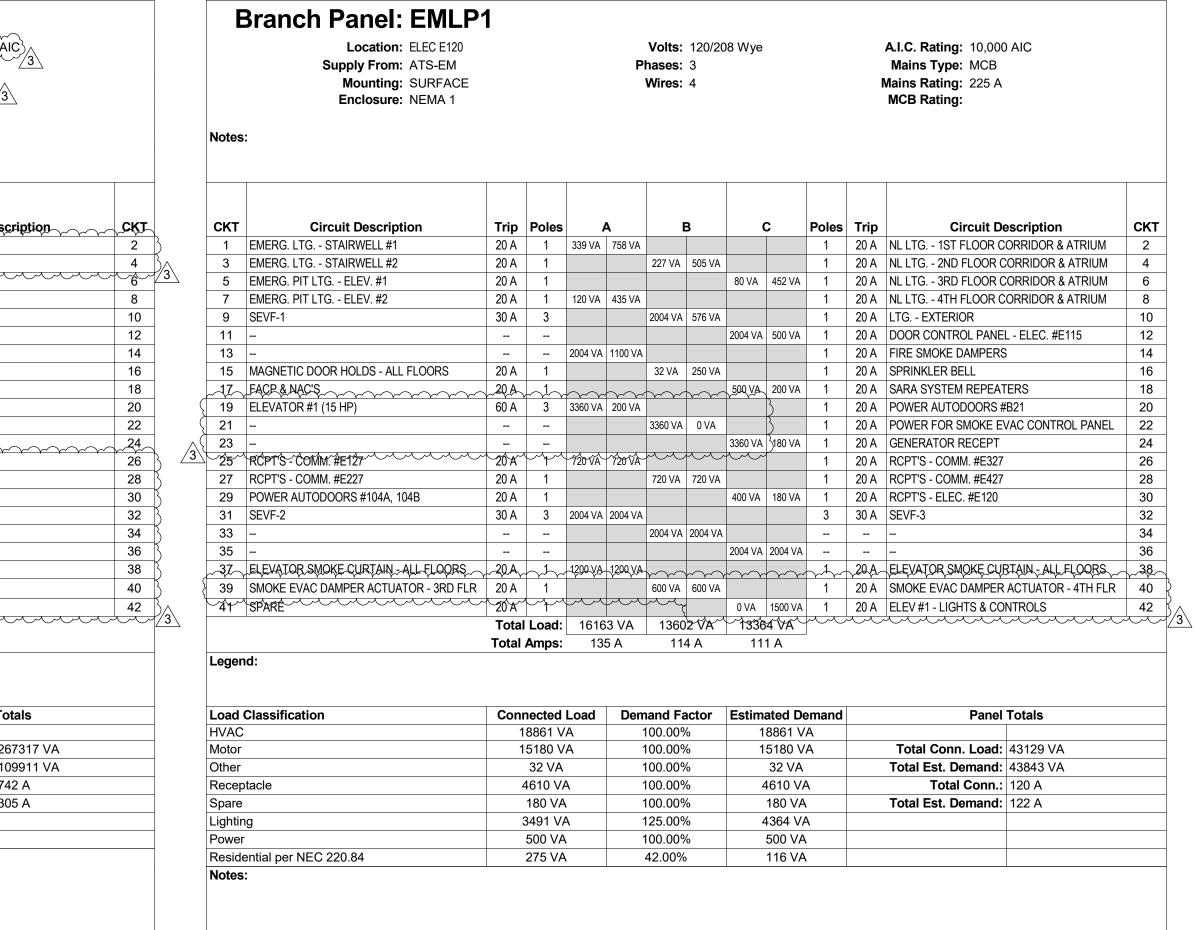
Location: ELEC E315 Supply From: NLDPA Mounting: SURFACE Enclosure: NEMA 1 Notes:			Volts: 120/208 Wye Phases: 3 Wires: 4								A.I.C. Rating: 22,000 AIC Mains Type: MLO Mains Rating: 400 A MCB Rating: 3		
CKT	Circuit Description	Trin	Poles		Δ		<b>B</b>			Poles	Trin	Circuit Descri	
<u>~~~~~</u> 1	LC-D2 - UNIT #E311	125 A	2	11044	11044	$\sim$		$\sim$		2		LC-D2 - UNIT #E312	
3						11044	11044					-	
$\overline{5}$	LC-C-UNIT#E319	100 A	2	h	fun	m		9930 VA	9857 VA	$\sim_2$	100 A	LC-B-UNIT#E314	
7				9930 VA	9857 VA							-	
9	LC-C - UNIT #E321	100 A	2			9930 VA	9930 VA			2	100 A	LC-C - UNIT #E316	
11								9930 VA	9930 VA			-	
13	LC-B - UNIT #E323	100 A	2	9857 VA	9930 VA					2	100 A	LC-C - UNIT #E322	
15	- · · ·					9857 VA	9930 VA					-	
17	LC-C - UNIT #E333	100 A	2					9930 VA	9857 VA	2	100 A	LC-B - UNIT #E324	
19				9930 VA	9857 VA								
21	LC-D1 - UNIT #E335	125 A	2	r· r	Y Y	11080	9930 VA	γ. γ.	3	2	100 A	LC-C - UNIT #E332	
23								11080	9930 VA	~~~~~	$\sim$		
25	EF-2 (RES. CLOSET #E302)	20 A	1	528 VA	11080				~ Y · Y	2	125 A	LC-D1 - UNIT #E334	
27							11080					-	
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	
31	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	
33	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	
35	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	
37	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	
39	SPACE		1							1		SPACE	
41	SPACE		1							1		SPACE	
	ter the second s	Total	Load:	9305	A VA	9382	3 VA	8044	1VA			turn	
			Amps:		2 A		8 A		) A	1			

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Tota
Power	528 VA	100.00%	528 VA		
Residential per NEC 220.84	266789 VA	41.00%	109383 VA	Total Conn. Load:	2673
				Total Est. Demand:	1099
				Total Conn.:	742
				Total Est. Demand:	305
Notes:					

٦	A.I.C. Rating: 22,000 AIC Mains Type: MLO Mains Rating: 600 A MCB Rating:		
<b>Trip</b>		CKT	
25 A	LC-D2 - UNIT #E412	2	3
		4	3,
100 A	LC-B-UNIT#É414	$\sim_{6}$	∕3∖
		8	
00 A	LC-C - UNIT #E416	10	
		12	
00 A	LC-C - UNIT #E422	14	
		16	
100 A	LC-B - UNIT #E424	18	
		20	
00 A	LC-C - UNIT #E432	22	
~~~		~24~	
25 A	LC-D1 - UNIT #E434	26	3
		28	Å.
90 A	RTU-2	30	<u>/3</u>
		32	
		34	
2Q A_	EF-2 (RES, CLOSET #E402)	~36~	
20 A	SPARE	38	Ş
20 A	SPARE	40	Ś
20 A	SPARE	42	3
	Panel Totals		
			1

Total Conn. Load:	349545 VA
Total Est. Demand:	192139 VA
Total Conn.:	970 A
Total Est. Demand:	533 A







Branch Panel: NLP4 Location: ELEC E415 Supply From: NLDPA Mounting: SURFACE Enclosure: NEMA 1

Notes

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 10,000 AIC Mains Type: MLO Mains Rating: 100 A MCB Rating:

скт	Circuit Description	Trip	Poles		4	E	3	C	2	Poles	Trip	Circuit Description	СКТ
1	RCPT'S - ATRIUM #E401	20 A	1	1260 VA	900 VA					1	20 A	RCPT'S - CORRIDOR #E413	2
3	RCPT'S - LOUNGE #E406	20 A	1			1260 VA	1080 VA			1	20 A	RCPT'S - RM. #E417, E418, E426, E429, E431,.	4
5	RCPT'S - CORRIDOR #E413 & ELEC #E415	20 A	1					1080 VA	0 VA	1	20 A	SPARE	6
7	GFI / WP RCPT - ROOFTOP	20 A	1	1080 VA	180 VA					1	20 A	GFI RCPT'S - RESTROOM #E405	8
9	EWH-1 (STAIRWELL #1 , 4TH FLOOR)	20 A	2			1500 VA	770 VA			1	20 A	LTG 4TH FLOOR CORRIDOR & ATRIUM	10
11								1500 VA	588 VA	1	20 A	LTG RM. #E417, E418, E426, E429, E431, E4	36 12
13	EWH-1 (STAIRWELL #2 , 4TH FLOOR)	20 A	2	1500 VA	593 VA		\sim		\sim	1-1-	20 A	LTG LOUNGE #E406 & RES. CLOSET #E402	14
15						1500,VA	1500 VA			1		ELEV #2 - LIGHTS & CONTROLS	16
17	ELEVATOR #2 (15 HP)	60 A	3			1		3360 VA	0 VA	1	20 A	SPARE	18
19				3360 VA	0 VA					1	20 A	SPARE	20
21						3360 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA						1		SPACE	26
27	SPARE	20 A	1			0 VA				1		SPACE	28
29	SPARE	20 A	1					0 VA		1		SPACE	30
31	SPARE	20 A	1	0 VA						1		SPACE	32
33	SPACE		1							1		SPACE	34
35	SPACE		1							1		SPACE	36
37	SPACE		1							1		SPACE	38
39	SPACE		1							1		SPACE	40
41	SPACE		1							1		SPACE	42
		Tota	I Load:	887	3VA~	1097	0 VA	6528	SYA ~		the	turner the second secon	the second
			Amps:		' A	94		54		L			
Legen	ld:		•										
Load	Classification	Con	nected	Load	Dem	nand Fa	actor	Estima	ated De	emand		Panel Totals	
Heatin	g		6000 V/	4		100.00%	6	6	6000 V	4			
Motor		-	10080 V	A		100.00%	6	1	0080 V	A		Total Conn. Load: 26371 VA	
				-						-			

Heating	6000 VA	100.00%	6000 VA		
Motor	10080 VA	100.00%	10080 VA	Total Conn. Load:	26371 VA
Other	1521 VA	100.00%	1521 VA	Total Est. Demand:	26853 VA
Receptacle	6840 VA	100.00%	6840 VA	Total Conn.:	73 A
Lighting	1930 VA	125.00%	2412 VA	Total Est. Demand:	75 A
Notes:					

E	Branch Panel: NLP2											
	Location: ELEC E215 Supply From: Mounting: SURFACE Enclosure: NEMA 1					Volts: hases: Wires:			(A.I.C. Rating: 10,000 AIC Mains Type: MLO Mains Rating: 100 A MCB Rating:		
Notes	:											
СКТ	Circuit Description	Trip	Poles		Α	E	3	C	2	Poles	Trip	Circuit Description
1	RCPT'S - ATRIUM #E201	20 A	1	1080 VA	900 VA					1	20 A	RCPT'S - CORRIDOR #E213
3	RCPT'S - LOUNGE #E206	20 A	1			1080 VA	1080 VA			1	20 A	RCPT'S - RM. #E217, E218, E226, E229, E23
5	RCPT'S - CORRIDOR #E213 & ELEC #E215	20 A	1					1080 VA	0 VA	1	20 A	SPARE
7	GFI RCPT'S - LOUNGE #E206	20 A	1	360 VA	850 VA					1	20 A	CLOTHES WASHER - HSKP #E205
9	UC MICROWAVE - LOUNGE #E206	20 A	1			1200 VA	927 VA			1	20 A	LTG 2ND FLOOR CORRIDOR & ATRIUM
11	UC REFRIGERATOR - LOUNGE #E206	20 A	1					600 VA	588 VA	1	20 A	LTG RM. #E217, E218, E226, E229, E231, E
13	RCPT'S - CORRIDOR #E200	20 A	1	900 VA	624 VA					1	20 A	LTG LOUNGE #E206 & RES. CLOSET #E20
15	GEIRCPT'S-LOUNGE #E206	20 A	1	\sim		360 VA	2500 VA	\sim		2	20 A	CLOTHES DRYER - HSKP #E205
17	SPARE	20 A	1					0 VA	2500 VA		~~~~	
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE
27	Space		1				0 VA			1	20 A	SPARE
29	Space		1							1		Space
31	Space		1							1		Space
33	Space		1							1		Space
35	Space		1							1		Space
37	Space		1		3004 VA					3	100 A	PANEL NLP3
39	Space		1				3629 VA					
41	Space		1						1488 VA			
$\mathcal{P}\mathcal{P}$		Total	Load:	771	8VA	1077	5∀A	6256	S VA	pul		
		Total	Amps:	66	5 A	92	2 A	52	A	-		
Legen	d:											

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Other	0 VA	0.00%	0 VA		
Receptacle	20610 VA	74.26%	15305 VA	Total Conn. Load:	24749 VA
Lighting	4139 VA	125.00%	5174 VA	Total Est. Demand:	20479 VA
				Total Conn.:	69 A
				Total Est. Demand:	57 A

Notes

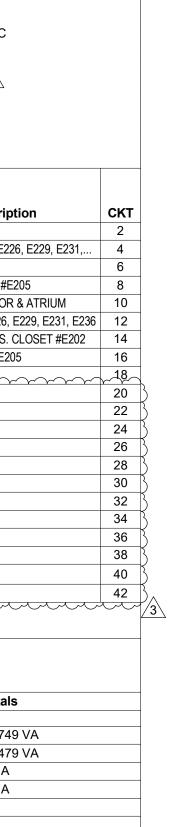
Branch Panel: NLP1 Location: MEP E118

Supply From: NLDPA Mounting: SURFACE Enclosure: NEMA 1

Volts: 120/208 Wye Phases: 3 Wires: 4

A.I.C. Rating: 22,000 AIC Mains Type: MLO Mains Rating: 100 A MCB Rating:

11 POWER AUTODOORS #108A, 108B 20 A 1 1 20 A 1 1	СКТ	Circuit Description	Trip	Poles		4	E	3	0)	Poles	Trip	Circuit D	escription	CK
5 RCPTS - CORRIDOR #113 & ELEC #E115 20 A 1 380 VA 1 380 VA 1 20 A 1 1 1 </th <th>1</th> <th>RCPT'S - ATRIUM #E101</th> <th>20 A</th> <th>1</th> <th>720 VA</th> <th>900 VA</th> <th></th> <th></th> <th></th> <th></th> <th>1</th> <th>20 A</th> <th>RCPT'S - CORRIDOR #E</th> <th>E113</th> <th>2</th>	1	RCPT'S - ATRIUM #E101	20 A	1	720 VA	900 VA					1	20 A	RCPT'S - CORRIDOR #E	E113	2
7 ROPTS - RM. #E106, E117, E118 20 A 1 360 VA 160 VA 1 20 A 1 20 A GFIRCPTS - RESTROM #E106 8 9 Space - 1 - 106 VA 1 20 A 11 20 A LG - IST FLOOR CORRIDOR & ATRUM 10 11 POWER AUTODOORS #108A, 108B 20 A 1 300 VA 81 VA 400 VA 428 VA 1 20 A LTG - IST FLOOR CORRIDOR & ATRUM 10 13 ROPTS - CORRIDOR #E100 20 A 1 300 VA 81 VA 20 VA 21 VA 20 A LTG - IOUNCE #E106 & RES. CLOSET #E102 14 15 SITE LTG - WEST PARKING LOT 20 A 1 300 VA 480 VA 241 VA 2 20 A STR LTG - IOUNCE #E108 & RES. CLOSET #E102 14 16 GFI/W P RCT - ELEVATOR #1 PIT 20 A 1 180 VA 0VA 1 20 A SPARE 22 Z 21 GFI/W P RCT - ELEVATOR #1 PIT 20 A 1 180 VA 0VA 1 20 A SPARE 22 Z 23 SPARE 20 A 1 0 VA <td>3</td> <td>RCPT'S - MAIL RM. / LOUNGE #E106</td> <td>20 A</td> <td>1</td> <td></td> <td></td> <td>1260 VA</td> <td>540 VA</td> <td></td> <td></td> <td>1</td> <td>20 A</td> <td>RCPT'S - RM. #E126, E1</td> <td>29, E131, E136</td> <td>4</td>	3	RCPT'S - MAIL RM. / LOUNGE #E106	20 A	1			1260 VA	540 VA			1	20 A	RCPT'S - RM. #E126, E1	29, E131, E136	4
9 Space - 1 20 - 1066 VA 20 1 20 A 1	5	RCPT'S - CORRIDOR #113 & ELEC #E115	20 A	1					1440 VA	0 VA	1	20 A	SPARE		6
11 POWER AUTODOORS #108A, 108B 20 A 1 solution 400 vA 428 vA 1 20 A LTG RM. #E17, E118, E126, E129, E131, E136 12 14 13 RCPT'S - CORRIDOR #E100 20 A 1 900 vA 611 vA vA 1 20 A LTG LOUNGE #E106 RESS, CLOSET #E102 14 15 STELTG WEST PARKING LOT 20 A 1 800 vA 0 VA 640 vA 241 vA 2 20 A STELTG EAST PARKING LOT 16 19 GFI WP RCPT ELEVATOR #1 PIT 20 A 1 100 vA 0 VA 0 VA 1 20 A SPARE 20 21 GFI WP RCPT ELEVATOR #2 PIT 20 A 1 0 VA 0 VA 0 VA 1 20 A SPARE 20 23 SPARE 20 A 1 0 VA 0 VA 0 VA 1 20 A SPARE 20 A 29 SPARE 20 A 1 0 VA 0 VA 1 20 A SPARE 26 29 SPARE 20 A 1 0 VA 1 5 A SPACE 3	7	RCPT'S - RM. #E105, E117, E118	20 A	1	360 VA	180 VA					1	20 A	GFI RCPT'S - RESTROC	DM #E105	8
13 RCPTS - CORRIDOR #E 100 20 A 1 900 VA 611 VA 68 VA 24 VA 2 20 A ITE LTG - LOUNGE #E 106 & RES. CLOSET #E 102 14 15 SITE LTG - WEST PARKING LOT 20 A 2 468 VA 24 VA 2 20 A SITE LTG - LEXATOR #E 101 16 13 GFU WP RCPT - ELEVATOR #1 PIT 20 A 1 180 VA 0VA 1 20 A SPARE 20 21 GFU WP RCPT - ELEVATOR #2 PIT 20 A 1 180 VA 0VA 1 20 A SPARE 20 23 SPARE 20 A 1 0VA 0VA 1 20 A SPARE 24 25 SPARE 20 A 1 0VA 0VA 1 20 A SPARE 24 25 SPARE 20 A 1 0VA 0VA 1 20 A SPARE 26 27 SPARE 20 A 1 0VA 1 - SPACE 23 33 SPACE - 1 - SPACE 34 34 24	9	Space		1				1066 VA			1	20 A	LTG 1ST FLOOR COR	RIDOR & ATRIUM	10
15 SITE LTG WEST PARKING LOT 20 2 2 2 2 20 SITE LTG EAST PARKING LOT 16 47.	11	POWER AUTODOORS #108A, 108B	20 A	1					400 VA	428 VA	1	20 A	LTG RM. #E117, E118	, E126, E129, E131, E136	12
17 - - - 468.V3 24.V4 - - - 18 19 GFI/WR RCPT ELEVATOR #1 PIT 20 A 1 100 A 0 VA 0 VA 1 20 A SPARE 20 21 GFI/WR RCPT ELEVATOR #2 PIT 20 A 1 1 100 VA 0 VA 1 20 A SPARE 22 23 SPARE 20 A 1 0 VA 0 VA 1 20 A SPARE 22 23 SPARE 20 A 1 0 VA 0 VA 1 20 A SPARE 24 29 SPARE 20 A 1 0 VA - 1 - SPARE 26 29 SPARE 20 A 1 - - 1 - SPACE 33 32 31 SPACE - 1 - - 1 - SPACE 36 36 37 SPACE - 1 - SPACE 1 - SPACE 36 37 SPACE - <td< td=""><td>13</td><td>RCPT'S - CORRIDOR #E100</td><td>20 A</td><td>1</td><td>900 VA</td><td>611 VA</td><td></td><td></td><td></td><td></td><td>1</td><td>20 A</td><td>LTG LOUNGE #E106 &</td><td>RES. CLOSET #E102</td><td>14</td></td<>	13	RCPT'S - CORRIDOR #E100	20 A	1	900 VA	611 VA					1	20 A	LTG LOUNGE #E106 &	RES. CLOSET #E102	14
19 GF// WP RCPT ÉLEVATOR #1 PIT 20 Å 1 180 VÅ 0 VÅ 1 20 Å SPARE 20 21 GF// WP RCPT ELEVATOR #2 PIT 20 Å 1 1 20 Å SPARE 20 Å 1 20 Å 1 1 20 Å SPARE 20 Å 20 Å 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td>15</td> <td>SITE LTG WEST PARKING LOT</td> <td>20 A</td> <td>2</td> <td></td> <td></td> <td>468 VA</td> <td>241 VA</td> <td></td> <td></td> <td>2</td> <td>20 A</td> <td>SITE LTG EAST PARK</td> <td>ING LOT</td> <td>16</td>	15	SITE LTG WEST PARKING LOT	20 A	2			468 VA	241 VA			2	20 A	SITE LTG EAST PARK	ING LOT	16
19 GF// WP RCPT ÉLEVATOR #1 PIT 20 Å 1 180 VÅ 0 VÅ 1 20 Å SPARE 20 21 GF// WP RCPT ELEVATOR #2 PIT 20 Å 1 1 20 Å SPARE 20 Å 1 20 Å 1 1 20 Å SPARE 20 Å 20 Å 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td>17</td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td>468 VA</td> <td>241 VA</td> <td></td> <td></td> <td></td> <td>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</td> <td></td>	17				<u> </u>				468 VA	241 VA				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
23SPARE20 A1000000120 ASPARE2425SPARE20 A10000120 ASPARE2627SPARE20 A100001-SPARE2629SPARE20 A1-0001-SPACE3031SPACE-11-SPACE3233SPACE-11-SPACE3435SPACE-11-SPACE3637SPACE-11-SPACE3639SPACE-11-SPACE3639SPACE-11-SPACE4041SPACE-11-SPACE4041SPACE-11-SPACE4041SPACE-11-SPACE4041SPACE-1-SPACE1-SPACE4041SPACE-1-SPACE1-SPACE4041SPACE- </td <td></td> <td></td> <td></td> <td>1</td> <td>180 VA</td> <td>0 VA</td> <td></td> <td></td> <td></td> <td><u>, , , </u></td> <td>1</td> <td>20 A</td> <td>SPARE</td> <td></td> <td>20</td>				1	180 VA	0 VA				<u>, , , </u>	1	20 A	SPARE		20
25SPARE20 A10 VA0 VA<	21	GFI/ WP RCPT ELEVATOR #2 PIT	20 A	1			180 VA	0 VA			1	20 A	SPARE		22
27 SPARE 20 Å 1 0 VA - 1 - SPACE 28 29 SPARE 20 Å 1 - 0 VA - 1 - SPACE 30 31 SPACE - 1 - SPACE 32 32 33 SPACE 32 32 32 33 SPACE - 1 - SPACE 34 34 34 35 SPACE - 1 - SPACE 38 34 34 34 34 39 SPACE - 1 - - 1 - SPACE 38 39 SPACE - 1 - - 1 - SPACE 38 39 41 SPACE - 1 - - 1 - SPACE 40 40 41 SPACE - 1 - SPACE 42 42 42 42 42 42 42 42 42 42	23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE		24
27 SPARE 20 A 1 0 0 0 1 - SPACE 1 - SPACE 30 31 SPACE - 1 - - 1 - SPACE 32 33 SPACE - 1 - - - 1 - SPACE 32 35 SPACE - 1 - - - - 1 - SPACE 36 35 SPACE - 1 - - - 1 - SPACE 38 39 SPACE - 1 - - - 1 - SPACE 38 39 SPACE - 1 - SPACE 40 40 40 41 SPACE - 1 - SPACE 42 <td>25</td> <td>SPARE</td> <td>20 A</td> <td>1</td> <td>0 VA</td> <td>0 VA</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>20 A</td> <td>SPARE</td> <td></td> <td>26</td>	25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE		26
31 SPACE - 1 - - - 1 - SPACE 32 33 SPACE - 1 - - - 1 - SPACE 34 35 SPACE - 1 - - - 1 - SPACE 34 37 SPACE - 1 - - - 1 - SPACE 36 39 SPACE - 1 - - - 1 - SPACE 38 41 SPACE - 1 - - - 1 - SPACE 38 39 SPACE - 1 - - - 1 - SPACE 40 41 SPACE - 1 - SPACE 40	27	SPARE		1			0 VA				1		SPACE		28
33 SPACE - 1 - - 1 - SPACE 34 35 SPACE - 1 - - 1 - SPACE 36 37 SPACE - 1 - - 1 - SPACE 38 39 SPACE - 1 - - 1 - SPACE 38 41 SPACE - 1 - - 1 - SPACE 38 39 SPACE - 1 - - 1 - SPACE 40 41 SPACE - 1 - SPACE 42	29	SPARE	20 A	1					0 VA		1		SPACE		30
35 SPACE - 1 - - 1 - SPACE 36 37 SPACE - 1 - - 1 - SPACE 38 39 SPACE - 1 - - - 1 - SPACE 38 41 SPACE - 1 - - - 1 - SPACE 40 41 SPACE - 1 - - - 1 - SPACE 40 41 SPACE - 1 - - 1 - SPACE 40 41 SPACE - 1 - - 1 - SPACE 42 Total Load: 3851 VA 3754 VA 2977 VA - - 42 - - 42 - - - 1 - SPACE 42 - - - - 1 - SPACE - - - - - - -	31	SPACE		1							1	-	SPACE		32
37 SPACE - 1 - - 1 - SPACE 38 39 SPACE - 1 - - 1 - SPACE 40 41 SPACE - 1 - - 1 - SPACE 40 41 SPACE - 1 - SPACE 40 42 40 42 40 41 SPACE - 1 - SPACE 42 <td>33</td> <td>SPACE</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>-</td> <td>SPACE</td> <td></td> <td>34</td>	33	SPACE		1							1	-	SPACE		34
39 SPACE - 1 - - 1 - SPACE 40 41 SPACE - 1 - - 1 - SPACE 40 41 SPACE - 1 - - 1 - SPACE 40 41 SPACE - 1 - SPACE 42 42 Total Load: 3851 VA 3754 VA 2977 VA - - 1 - SPACE 42 Load Classification Connected Load Demand Factor Estimated Demand Panel Totals - - - 1 - SPACE 42 Load Classification Connected Load Demand Factor Estimated Demand Panel Totals - <t< td=""><td>35</td><td>SPACE</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>SPACE</td><td></td><td>36</td></t<>	35	SPACE		1							1		SPACE		36
41 SPACE - 1 - - 1 - SPACE 42 Total Load: 3851 VA 3754 VA 2977 VA - </td <td>37</td> <td>SPACE</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>SPACE</td> <td></td> <td>38</td>	37	SPACE		1							1		SPACE		38
41 SPACE - 1 - - 1 - SPACE 42 Total Load: 3851 VA 3754 VA 2977 VA - </td <td>39</td> <td>SPACE</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>SPACE</td> <td></td> <td>40</td>	39	SPACE		1							1		SPACE		40
Connected Load Demand Factor Estimated Demand Panel Totals Load Classification Connected Load Demand Factor Estimated Demand Panel Totals Other 21 VA 100.00% 21 VA 10582 VA 10582 VA Receptacle 7060 VA 100.00% 7060 VA Total Est. Demand: 11457 VA Lighting 3501 VA 125.00% 4376 VA Total Est. Demand: 1457 VA Image: Contract of the state of the stat				1							1				
Total Amps:33 A32 A25 ALegend:Load ClassificationConnected LoadDemand FactorEstimated DemandPanel TotalsOther21 VA100.00%21 VAReceptacle7060 VA100.00%7060 VATotal Conn. Load:Lighting3501 VA125.00%4376 VATotal Est. Demand:Image: transition of transition			Total	Load:	385	1VA	3754		297	γ YA	بنب				
Legend: Connected Load Demand Factor Estimated Demand Panel Totals Other 21 VA 100.00% 21 VA 100.00% 100.00% 100.00% 10582 VA Receptacle 7060 VA 100.00% 7060 VA Total Conn. Load: 10582 VA Lighting 3501 VA 125.00% 4376 VA Total Est. Demand: 11457 VA Lighting 0 100.00% 100.00% 320 VA 100.00% 320 VA Lighting 0 0 0 0 0 0 Lighting 0 0 0 0 0 0 Lighting 0 0 0 0 0 0 0 Lighting 0 0 0 0 0 0 0 0 Lighting 0 0 0 0 0 0 0 0 0 0 Lighting 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<															
Other 21 VA 100.00% 21 VA Total Conn. Load: 10582 VA Receptacle 7060 VA 100.00% 7060 VA Total Conn. Load: 10582 VA Lighting 3501 VA 125.00% 4376 VA Total Est. Demand: 11457 VA Lighting 3501 VA 125.00% 4376 VA Total Est. Demand: 32 A Lighting Image: Control Contro Control Control Contro Control Control Contro Cont			Conr	nected	Load	Dem	hand Fa	actor	Estima	ated De	emand		Panel	Totals	
Lighting3501 VA125.00%4376 VATotal Est. Demand:11457 VAImage: Constraint of the state of the st															
Total Conn.: 29 A Total Est. Demand: 32 A Output Output	Recep	otacle		7060 V	4				7	7060 VA	٩		Total Conn. Load:	10582 VA	
Total Conn.: 29 A Total Est. Demand: 32 A Output Output	Lightir	ng		3501 VA	4		125.00%	6	۷	376 V	٩		Total Est. Demand:	11457 VA	
		•											Total Conn.:	29 A	
Neteo:															
MANEN.	Notes														



		Notes	:
кт		скт	Circuit
2		1	RCPT'S - ATRIUM #E
4		3	RCPT'S - LOUNGE #E
6		~ 5 ~~	RCPT'S - CORRIDOR
8		7	SPARE
10		9	SPARE
12		11	SPARE
14		13	SPARE
16		15	SPARE
18~		17	SPACE
20	3	19	SPACE
22	B	21	SPACE
24	B	23	SPACE
26	β	25	SPACE
28	β	27	SPACE
30	3	29	SPACE
32	3	31	SPACE
34	\mathbf{S}	33	SPACE
36	S	35	SPACE
38	β ζ	37	SPACE
40	3 (39	SPACE
42	B, (41	SPACE
	3	μ	m

Legend:

Branch Panel: NLP3
Location: ELEC E315 Supply From: NLP2
Mounting: SURFACE Enclosure: NEMA 1

Volts:	120/208 Wye
Phases:	3
Wires:	4

A.I.C. Rating: 10,000 AIC $\{$ Mains Rating: 100 A $\}$ MCB Rating:

кт	Circuit Description	Trip	Poles		A	I	В)	Poles	Trip	Circuit Description	СКТ
1	RCPT'S - ATRIUM #E301	20 A	1	1440 VA	900 VA					1	20 A	RCPT'S - CORRIDOR #E313	2
3	RCPT'S - LOUNGE #E306	20 A	1			1800 VA	1080 VA			1	20 A	RCPT'S - RM. #E317, E318, E326, E329, E331,	4
5~~	RCPT'S-CORRIDOR #E313 & ELEC-#E315	20 A	1	\sim		\sim		900 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA				3	1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	749 VA		$\left\{ \right\}$	1	20 A	LTG 3RD FLOOR CORRIDOR & ATRIUM	10
11	SPARE	20 A	1					0 VA	₹588 VA	1	20 A	LTG RM. #E317, E318, E326, E329, E331, E336	12
13	SPARE	20 A	1	0 VA	664 VA				\sim	1	, 20 A	LTGLQUNGE#E306&RES,CLQSEIT#E302	~ 1 4
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPACE		1						0 VA	1	20 A	SPARE	18
19	SPACE		1		0 VA					1	20 A	SPARE	20
21	SPACE		1			-	0 VA			1	20 A	SPARE	22
23	SPACE		1						0 VA	1	20 A	SPARE	24
25	SPACE		1	-						1		SPACE	26
27	SPACE		1							1		SPACE	28
29	SPACE		1							1		SPACE	30
31	SPACE		1							1		SPACE	32
33	SPACE		1			-				1		SPACE	34
35	SPACE		1							1		SPACE	36
37	SPACE		1	-						1		SPACE	38
39	SPACE		1			1				1		SPACE	40
	SPACE		1							1		SPACE	42
		Tota	Load	~300	4 VA	~362	gva	148	SYA∽	m			
		Total	Amps:	27	7 A	32	2 A	12	A	-			

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel	Totals
Other	0 VA	0.00%	0 VA		
Receptacle	6120 VA	100.00%	6120 VA	Total Conn. Load:	8121 VA
Lighting	2001 VA	125.00%	2501 VA	Total Est. Demand:	8621 VA
				Total Conn.:	23 A
				Total Est. Demand:	24 A
Notes:	1				1



Notes:	Location: DINING ROOM 2 Supply From: Mounting: FLUSH Enclosure: NEMA 1	30		I	Volts: Phases: Wires:		3 Single			A.I.C. Rating: 10,000 AIC Mains Type: Mains Rating: 125 A MCB Rating:
скт	Circuit Description	Trip	Poles		4	1	3	Poles	Trip	Circuit Description
1	GFI RCPT'S - KITCHEN	20 A	1	540 VA	- 780 VA			1	20 A	REFRIGERATOR
3	GFI RCPT'S - KITCHEN	20 A	1			540 VA	3840 VA	2	30 A	ELECTRIC COOKTOP
5	ISLAND GFI RCPT'S - KITCHEN	20 A	1	540 VA	3840 VA					
7	MICROWAVE	20 A	1			1200 VA	2500 VA	2	40 A	CLOTHES DRYER
9	GARBAGE DISPOSAL	20 A	1	540 VA	2500 VA					
11	DISHWASHER	20 A	1			852 VA	850 VA	1	20 A	CLOTHES WASHER
13	RCPT'S - LIVING ROOM	20 A	1	1080 VA	360 VA			1	20 A	GFI RCPT'S - BATHROOM
15	RCPT'S - BEDROOM	20 A	1			1260 VA	180 VA	1	20 A	GFI / WP RCPT - BALCONY
17	RCPT'S - DINING ROOM	20 A	1	900 VA	180 VA			1	20 A	GFI RCPT'S - BATHROOM
	RCPT'S-DEN	20 A	1			720 VA	423 VA	1	20 A	LIGHTNIG - DWELLING UNIT
21	VPTAC-2 (UNIT C)	35 A	2	3640 VA	160 VA	r r	3	1	20 A	EF-1 (UNIT C)
23						3640 VA	3 OVA	1	20 A	SPARE
~25~	SPARE	20 A	hh	OVA	OVA			1	20 A	SPARE
27	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE
29	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE
31	SPARE	20 A	1			0 VA		1		SPACE
33	SPACE		1					1		SPACE
35	SPACE		1					1		SPACE
37	SPACE		1					1		SPACE
39	SPACE		1					1		SPACE
41	SPACE		1					1		SPACE
		Tot	al Load:	1506	O VA	1600	5 VA			
		Tota	I Amps:	14	5 A	15	3 A	-		
Legen	d:									
Notes:										

PROJECT TITLE: JOHN KNOX VI	LLAGE - UNIT TYP	EC		PROJECT #: 23	104	.00
Optional M	ethod Load Calı	Ilation for One-Far	nily Dwellings			
General Lighting and Receptacle Loads 220.12 Do not include open porches, garages, and unused or	unfinished spaces not ac	daptable for future use.	3 x88 (sq ft outside		1	2664
Small Appliance Branch-Circuits 220.52(A) At least two small appliance branch circuits must be ir	ncluded. 210.11(C)(1)	1500	x2 (minimum		2	3000
Laundry Branch-Circuit(s) 220.52(B) At least one laundry branch circuits must be included.	210.11(C)(2)	1500	x1 (minimum	= n of one)	3	1500
Appliances 220.53 Use nameplate rating of ALL appliances (fastened- n-place, permanently connected, or connected to a specific circuit), ranges, ovens cooktops, motors,	Refrigerator	/	Clothes Washer	/850 (va each) , 5000		
and clothes dryers.	Dishwasher	/(va each) 540	 Clothes Dryer 	/(va each) 0		
Convert any maneplate rating given in amperes to volt-amperes by miltiplying the amperes by the rated	Disposal	/(va each)	– Water Heater (N/A)	/(va each)		
voltage. Do not include any heating or air conditioning	Microwaves	/1200 (va each)	Exhaust Fans	/100 (va each)		
equipment in this section. #4 TOTAL VA OF ALL APPLIANCES: Take 75% of	Range	/7680 (va each) 0	– HW Circ Pump (N/A)	/0 (va each) 0		
the total appliances and laundry loads minus the Range and Clothes Dyer and then add in the 100% of the Range and Clothes Dryer	Cook Top (N/A) Range Hood	/(va each) /250	_	/0 (va each)		
	range riood	′ (va each)	Total volt-amperes of a LISTED ABOVE	(va each) Il appliances	4	16109
Apply 220.82(B) demand factor to the total of lines 1 th	rough 4.					
<u>23273</u> - 10000 (total of lines 1 through 4)	= 13273	x 40% = 5309	+ 100	00 =	5	15309
Heating and/or Air Conditioning System 220.82(C) Use the nameplate rating(s) in volt-amperes for all app a through e.	licable systems in lines	 c) Central electric space heat pumps where the from operate at the same 	controller prevents the c			
			0	x 65% =	c)	0
Air-conditioning and cooling system(s), including heat p supplemental heating, unless the controller prevents th supplemental heating from operate at the same time.		d) Electric space heating	equipment, if less than f	our separately cont	rolle	d units.
	a) 3328		000		d)	4550
Electrical thermal storage and other heating systems we expected to be continuous at full nameplate value: Sys this section shall not be figured under any other selection	tems qualifying under	e) Electric space heating	equipment, if four or mo	re separately contro	olled	units.
0 x 100% = I	b) 0		0	x 40% =	e)	0
Total Volt-Ampere	4550 ating from line 6a througl	+	15309 (line 5)	=	7	19859
Minimum Amperes Divide the total volt-amperes	19859	208	_ = 8 95	Minimum Size 9 Service	9	
by the voltage				and/or Feeder		

Branch Panel: LC-B Location: BEDROOM 209

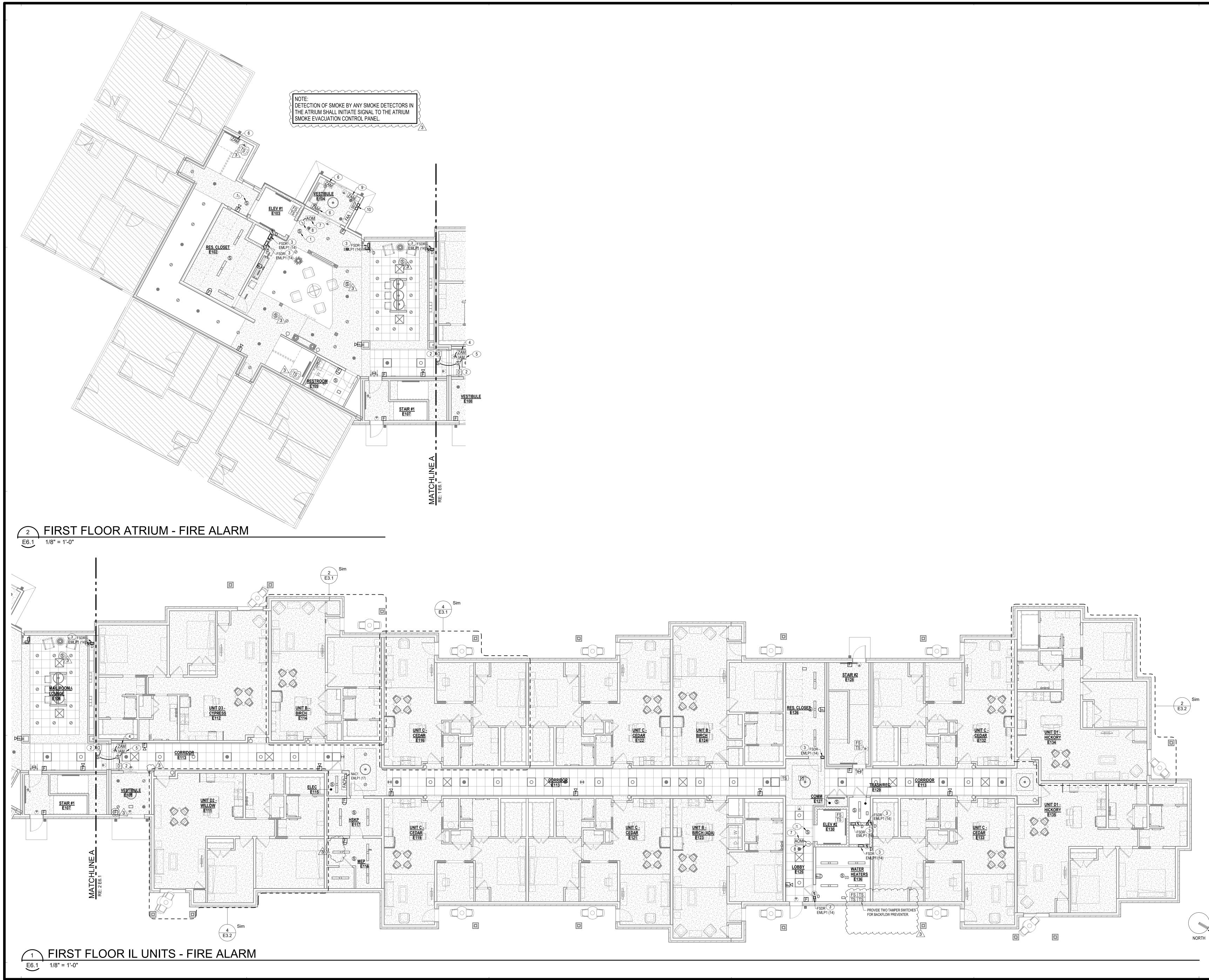
Supply From: Mounting: FLUSH Enclosure: NEMA 1 Volts: 120/208 Single Phases: 1 Wires: 3

A.I.C. Rating: 10,000 AIC Mains Type: Mains Rating: 125 A MCB Rating:

	GFI RCPT'S - KITCHEN		Poles		1	1	3	Poles	Trip	Circuit Description	CK
	GELKGELS-KITCHEN	20 A	1	540 VA	780 VA			1	20 A	REFRIGERATOR	2
3 0	GFI RCPT'S - KITCHEN	20 A	1			540 VA	3840 VA	2	30 A	ELECTRIC COOKTOP	4
5 1	ISLAND GFI RCPT'S - KITCHEN	20 A	1	720 VA	3840 VA						6
7 N	MICROWAVE	20 A	1			1200 VA	2500 VA	2	40 A	CLOTHES DRYER	8
9 0	GARBAGE DISPOSAL	20 A	1	540 VA	2500 VA						10
11 C	DISHWASHER	20 A	1			852 VA	850 VA	1	20 A	CLOTHES WASHER	12
13 F	RCPT'S - LIVING ROOM	20 A	1	1080 VA	360 VA			1	20 A	GFI RCPT'S - BATHROOM	14
15 F	RCPT'S - BEDROOM	20 A	1			1080 VA	180 VA	1	20 A	GFI / WP RCPT - BALCONY	16
_17_F	RCPT'S-DINING ROOM	20 A	~ 1	900 VA	316 VA			1	20 A	LIGHTNIG - DWELLING UNIT	18
	VPTAC-1 (UNIT B)	35 A	2			3640 VA	3 80 VA	1	20 A	EF-1 (UNIT B)	20
21 -				3640 VA	0 VA		\$	1	20 A	SPARE	22
23	SPARE	20 A	-yr			TOVA	0 VA	1	20 A	SPARE	24
25 8	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	26
27 8	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	28
29 8	SPARE	20 A	1	0 VA				1		SPACE	30
31 S	SPACE		1					1		SPACE	32
33 S	SPACE		1					1		SPACE	34
35 S	SPACE		1					1		SPACE	36
37 S	SPACE		1		-			1		SPACE	38
39 S	SPACE		1					1		SPACE	40
41 5	SPACE		1					1		SPACE	42
		Tota	I Load:	1521	6 VA	1476	2 VA				
		Tota	Amps:	140	6 A 6	14:	2 A	1			

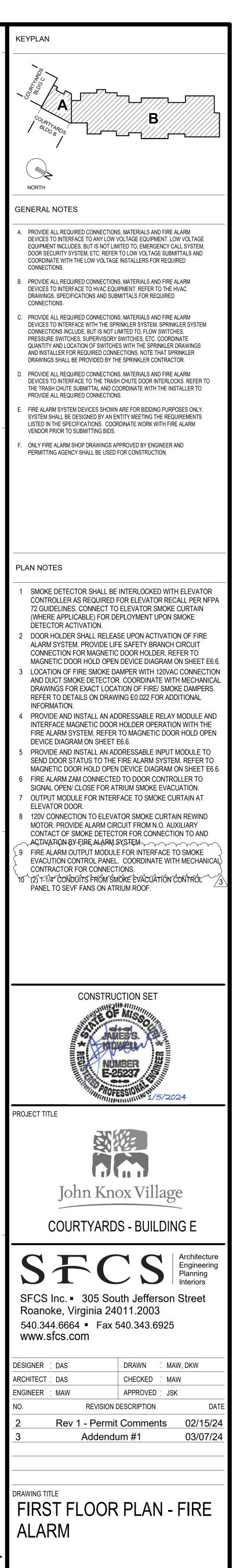
	PROJECT TITLE: JOHN KNOX VIL	LAGE - UNIT TYP	EE	3					PF	ROJECT #	: 231	04.(00
	Optional Me	thod Load Calu	ıla	tion fo	or One	-Fam	nily C	Owellings					
1	General Lighting and Receptacle Loads 220.12 Do not include open porches, garages, and unused or u	nfinished spaces not ac	dapt	able for	future use).	3 x	(sq ft outsi	766 de dim	nension)	- =	1	2298
	Small Appliance Branch-Circuits 220.52(A) At least two small appliance branch circuits must be inc	cluded. 210.11(C)(1)				1500	x	(minim	2 um of	two)	- =	2	3000
	Laundry Branch-Circuit(s) 220.52(B) At least one laundry branch circuits must be included. 2	210.11(C)(2)				1500	x	<u>(minim</u>	1 um of o	one)	- =	3	1500
4	Appliances 220.53 Use nameplate rating of ALL appliances (fastened- n-place, permanently connected, or connected to a	Refrigerator	/		780 (va each)		C	Clothes Washe	r /		50 each)		
	specific circuit), ranges, ovens cooktops, motors, and clothes dryers.	Dishwasher	/	(852 (va each)			Clothes Dryer	1		00 each)		
	Convert any maneplate rating given in amperes to volt-amperes by miltiplying the amperes by the rated	Disposal	1	(540 (va each)		Wa	ater Heater (N/	A) /	(va e) each)		
	voltage. Do not include any heating or air conditioning	Microwaves	1	(1200 (va each)			Exhaust Fans	/	(va e	00 each)		
	equipment in this section. #4 TOTAL VA OF ALL APPLIANCES: Take 75% of the total appliances and laundry loads minus the	Range	/		7680 (va each) 0		I	HW Circ Pump (N/A)	1	(va e) each))		
	Range and Clothes Dyer and then add in the 100% of the Range and Clothes Dryer	Cook Top (N/A) Range Hood	/		(va each) 250				/		each) D		
		J			(va each)			/olt-amperes o D ABOVE	f all ap		each)	4	16109
5	Apply 220.82(B) demand factor to the total of lines 1 through the second	ough 4									-	_	
Ū	<u>22907</u> - 10000 = (total of lines 1 through 4)	-	x	40%	= {	5163	+	1	0000		-	5	15163
6	Heating and/or Air Conditioning System 220.82(C) Use the nameplate rating(s) in volt-amperes for all applie a through e.	cable systems in lines	c)	heat pu		re the c	control	equipment, ind ler prevents the	-		•••		-
						C)		x	65%	=	c)	0
Ĺ	Air-conditioning and cooling system(s), including heat pu supplemental heating, unless the controller prevents the supplemental heating from operate at the same time.		d)	Electric	space he	eating e	quipm	ent, if less thai	n four :	separately	contro	olled	units.
	2517 x 100% = a					70			x		_	d)	4550
	Electrical thermal storage and other heating systems where expected to be continuous at full nameplate value: System this section shall not be figured under any other selection	ems qualifying under	e)	Electric	space he	eating e	equipm	ent, if four or n	nore se	eparately o	controll	led ι	units.
	0 x 100% = b					C)		х	40%	=	e)	0
7	Total Volt-Ampere Demand Load: (largest VA rat	4550 ing from line 6a through	h 6e)	+			15163 (line 5)			=	7	19713
8	Minimum Amperes Divide the total volt-amperes	9713		/	208		_	95	9	Minimum Service	Size	9	
	by the voltage (lin	<u>ne 7)</u>	_ •		(voltage)		_	(min.amp	•	and/or Fe 220.40	eeder	-	(min. is 100A)





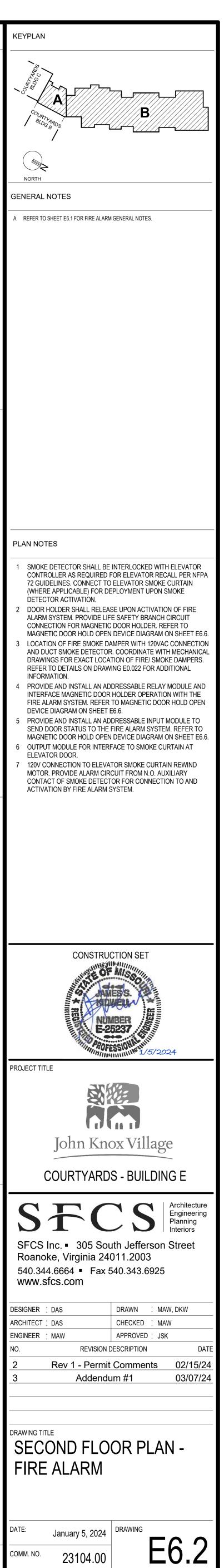
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Autodesk Docs://23104.00 - John Knox Village - Lindbergh/23104.00-JKV-Courtyards-Building E-Electrical & Low Voltage CENTRAL.rvt



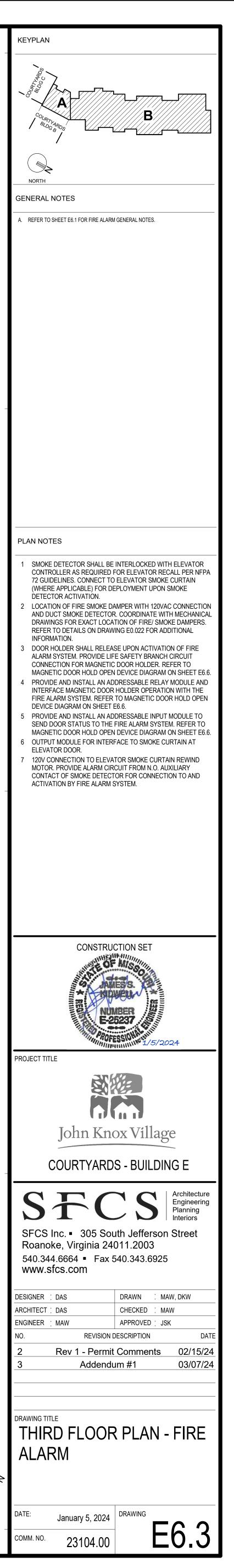
DATE:	January 5, 2024	DRAWING	
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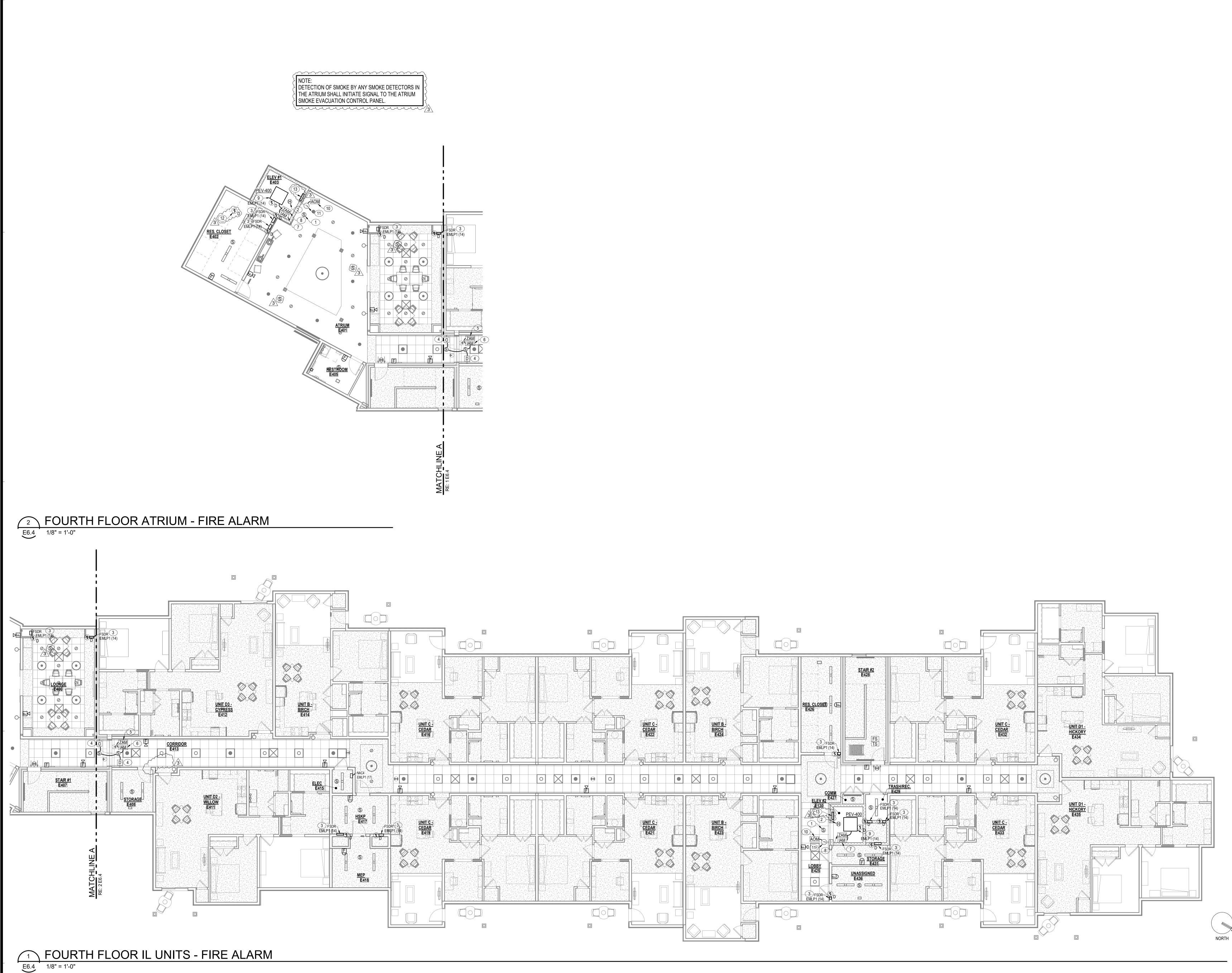




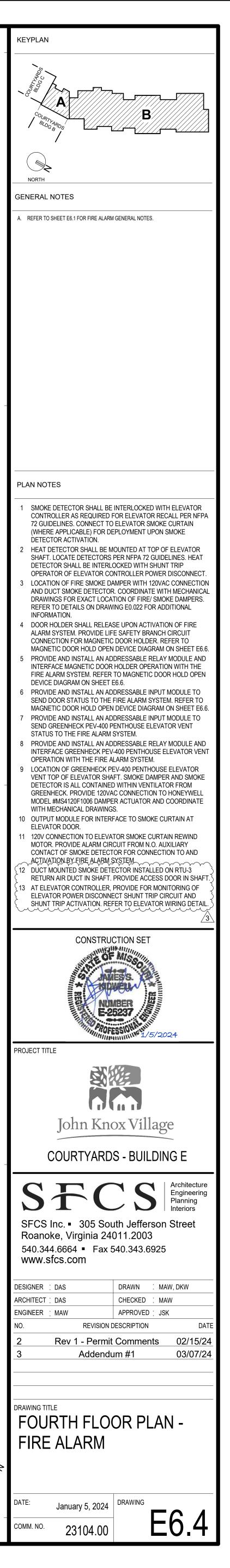


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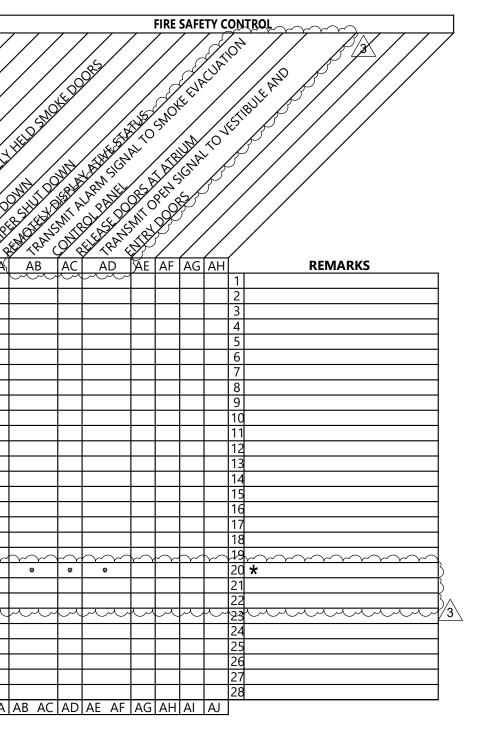




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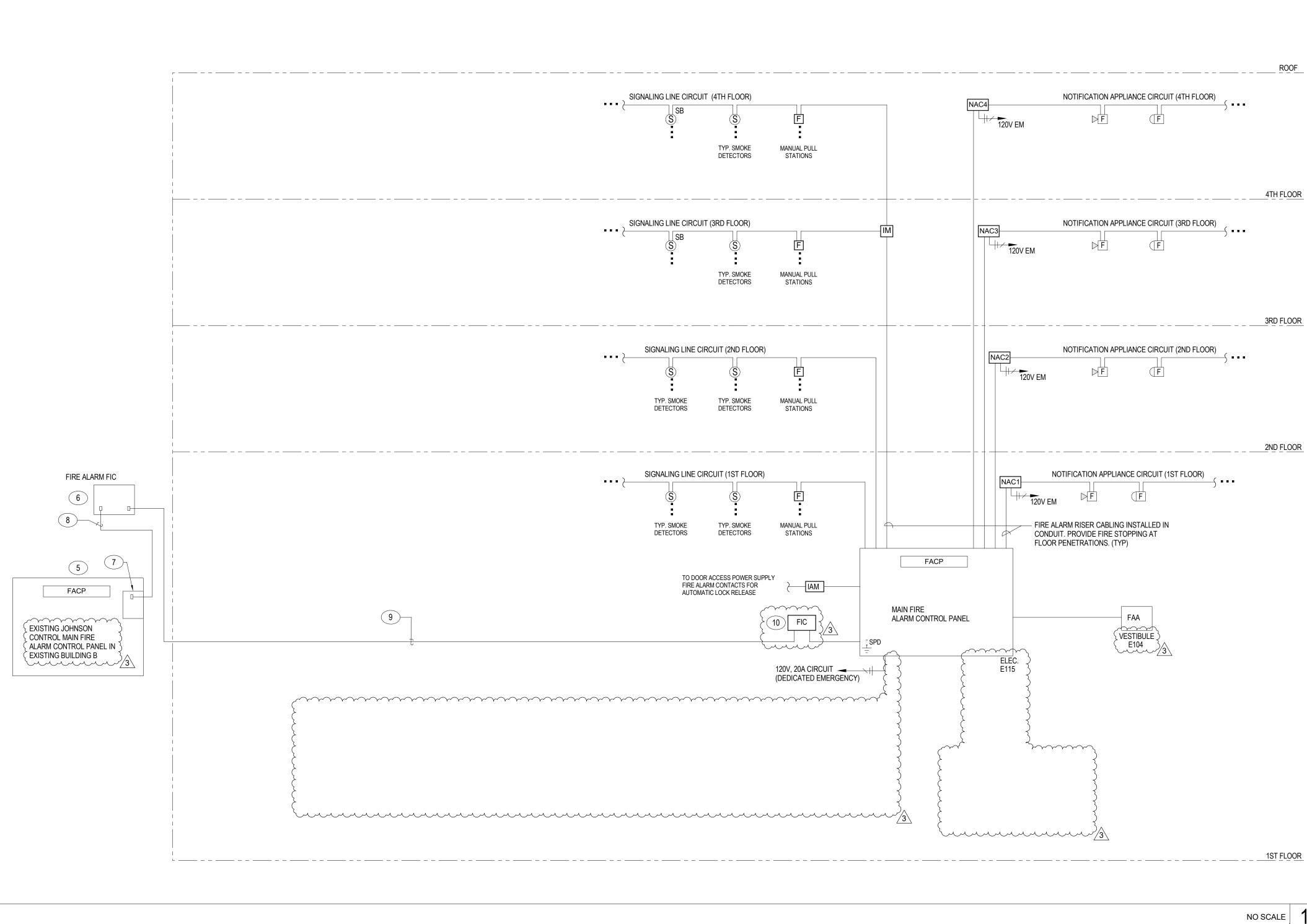
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/ATOR I /ATOR I	LEV. LOBBY SMOKE DETECTOR OBBY SMOKE DETECTORS (EXC. MAIN FL MECH. ROOM HEAT DETECTOR	8	0 0 0					9 9 9	0 0	9 9 9		9 9 9	0 0						0 0	¢	•		•	9		9	© ©	0 0 0
ATOR S	MECH. ROOM SMOKE DETECTOR SHAFT HEAT DETECTOR SHAFT SMOKE DETECTOR POWER MONITOR	0 0 0	0 0	•	0			9 9 9	9 9 9	9 9 9		9 9 9	9 9 9	0						9 0		୍ କ	•	9 9		•	© 0	0 0 0
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n Circ Alarn	JIT OR GROUND FAULT I SYSTEM LOW BATTERY ITIFICATION CIRCUIT (NAC) - SHORT					9 9 9	9 9 0					9 9 9			0 0 0													
NTENA	OR/DETECTOR NEE_SWITCH ECTORS IN ATRIUM	•	•	•	•	~~~	~~	• { •	•	•	\sim	•	•	• }	~~	\sim		~~	~		Ŷ	~~~	\sim	\sim		•	•	9 - 9 9
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	FIRE ALARM SYS		C			D	^ I	NI	\cap		с.																	
	PROVIDE AN INTELLIGENT ADDRESSABLE ALARM SYSTEM SHALL BE CAPABLE OF MO	FIRE ALA	RM S'	YSTE	M FO	R TH	IE FA	CILIT	Y. TH	IS NE	W FI	RE																
	PULL STATIONS, ALL CEILING MOUNTED A DUCT-MOUNTED AUTOMATIC SMOKE DETE	JTOMATIC										, 1917-1		-														
	PROVIDE ADDRESSABLE NOTIFICATION A APPLIANCES ARE TO UTILIZE A SETTING A SHALL BE CAPABLE OF MULTIPLE CANDEL	T A MINIM	UM C)F 870	dB. VI	ISUAI	L NOT	TIFIC/																				
;	B. FOR EACH FIRE/SMOKE DAMPER IN DUCT DUCTWORK TO MONITOR THE DUCT OPEN	ING IN TH	E SM	OKE/	FIRE	RATI	ED PA	ARTIT	ION.	THES	SΕ																	
DETECTORS ARE TO BE PROVIDED WITH AN AUXILIARY, 24V, NORMALLY-CLOSED, RELAY WHICH HOLDS THE DAMPER OPEN. THIS RELAY IS TO KEEP THE DAMPER OPEN UNDER NORMAL CONDITIONS. THIS RELAY IS TO BE WIRED SO THAT IT OPENS, THUS ALLOWING THE DAMPER TO CLOSE, IN THE EVENT OF AN ALARM OR LOSS OF POWER CONDITION. IN ADDITION TO THE RELAY, PROVIDE A 120V-24V CONTROL																												
AN ALARM OR LOSS OF POWER CONDITION. IN ADDITION TO THE RELAY, PROVIDE A 120V-24V CONTROL TRANSFORMER, FOR EACH DAMPER, AND CONNECT TO CLOSEST 120V RECEPTACLE CIRCUIT. THESE DETECTORS ARE TO BE SUPPLIED AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM, AND INSTALLED, BY THE ELECTRICAL CONTRACTOR.																												
 FIRE ALARM MANUAL STATIONS SHALL BE DOUBLE-ACTION TYPE, POSITIVE VISUAL INDICATION OF OPERATION, KEY RESET AND ALL SHOULD BE KEYED ALIKE. 																												
	 AVOID PLACEMENT OF HEAT DETECTORS CLOSE TO HEAT-PRODUCING EQUIPMENT WHERE RATE-OF-RISE WILL DEGRADE DETECTOR PERFORMANCE OR PRODUCE NUISANCE ALARMS. USE 																											
(DEVICES CAPABLE FIXED TEMPERATURE (165°F TO 190°F) DETECTION IN SUCH AREAS. 6. ALL ANNUNCIATOR LEGEND WORDING AND/OR ALPHANUMERIC DISPLAY LEGENDS SHALL BE APPROVED 																											
-	BY THE ENGINEER, OWNER AND/OR LOCA THIS INFORMATION WITH SHOP DRAWING THE SENSITIVITY OF SMOKE DETECTORS	SUBMITT	ALS.				·																					
	INDICATED, TO SUIT BUILDING OPERATION	AL CONDI	ITION	S.		1 111																						
8. WIRE SIZE SELECTIONS FOR AUDIO/VISUAL UNITS SHALL BE CALCULATED AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.							ED A	ND S																				
	ACCORDANCE WITH THE MANUFACTURER RISER DIAGRAM FOR FIRE ALARM SYSTEM	I IS DIAGF	RAMN	DATI IATIC	ons. ; and	FOR	BID	PURF	HALL POSE	BE II S ON	N LY. S	YSTE																
	ACCORDANCE WITH THE MANUFACTURER	I IS DIAGF ACCORD/ PROVED AS APPLI	ramn Ance By T Icabl	Datio Iatic With He s .e. It	ons. And H Wif Tate Is Th	FOR RING FIRE HE RE	e Bid Diag Maf Espo	PURF RAMS RSHAI	HALL POSE S OB LL'S (ILITY	BE II S ONI FAINE OFFIC OF T	N LY. S ED FF XE OF HE	YSTE Rom ⁻ R The	THE E															
9	ACCORDANCE WITH THE MANUFACTURER RISER DIAGRAM FOR FIRE ALARM SYSTEM SHALL BE INSTALLED AND CONNECTED IN MANUFACTURER AND THAT HAVE BEEN AI LOCAL AUTHORITY HAVING JURISDICTION CONTRACTOR TO CONFIRM ALL QUANTITI	A IS DIAGE ACCORD/ PROVED AS APPLI ES AND LC LL BE LOO CEILING. S COMMEN	RAMM ANCE BY T CABL DCAT CATE CATE	DATIO ATIC WITH HE S E. IT ION C D SO NG B ONS	ONS. AND H WIF TATE IS TH DF FIF AS T ETWI IN AN	FOR RING FIRE HE RE HE RE AL	R BID DIAG MAF SPO ARM REVEN	PURF RAM SHA NSIB I DEV	POSE S OB LL'S (LLTY ICES ILELE RS SF	BE II S ONI FAINE DFFIC OF T PRIC ING E	N ED FF ED OF HE R TC 3Y BE IN TEC	YSTE Rom 1 R The Syss	THE E															
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	 ACCORDANCE WITH THE MANUFACTURER RISER DIAGRAM FOR FIRE ALARM SYSTEM SHALL BE INSTALLED AND CONNECTED IN MANUFACTURER AND THAT HAVE BEEN AI LOCAL AUTHORITY HAVING JURISDICTION CONTRACTOR TO CONFIRM ALL QUANTITI INSTALLATION. AUTOMATIC FIRE ALARM DETECTORS SHA DUCTWORK, EQUIPMENT AND PIPING ON O ACCORDANCE WITH MANUFACTURER'S RE SHALL BE PROVIDED IF NEEDED TO INSUR PER NFPA 72, 18.5.4.4.5 - VISIBLE APPLIAN CORRIDOR WITH A SEPARATION NO GREA OF THE CONCENTRATED VIEWING PATH S SHALL BE CONSIDERED AS A SEPARATE O NOTIFICATION APPLIANCES ARE IN ANY FI MOUNT ALL VISUAL UNITS AT NOT LESS TI 	I IS DIAGF ACCORD/ PROVED AS APPLI ES AND LO ES AND LO ES AND LO ECOMMEN E COMPLI CES SHAL TER THAN JCH AS F ORRIDOR ELD OF VI HAN 80" AI HIN 5' OF E SUREMEN ITH NFPA	RAMM ANCE BY T ICABL DCAT CATE SPACI IDATI ETE (L BE I 100 IRE D . COF EW, 1 ND N/ DOOR T TO 70 (N	Datin Matic With He S E. It Ion C D So Ng B Ons Cove No M Ft. B Oor Rrido They Dt Gi Way Be Vi Atio	ONS. AND HWIF TATE ISTH DFFIF IN AN RAGE ETWI IN AN RAGE ETWI SOR SOR SHAI REAT SANI ERTIC) For Ring Fire He re Re Al CO PF EEN I NY CA E OF THAN ELEV WHEF LL FL CAL. ELEC	REVEN CARM REVEN DETE ASE. / DETE ASE. / THE N 15 F APPL VATIC RE MC ASH HAN TWEE TRIC	PURF RAM: RSHAI NSIB I DEV NT SH CTOF ADDIT INDIC FT. FF IANCI TIN SY 96" A 96" A EN 42 COD	Hall Pose S ob Ll's (Ll'y Ices Hell Rom Es a Hang Hang Hang Hang Hang Hang Hang Han	BE II S ONI FAINE DFFIC OF T PRIC ING E IALL ING E IALL ING E IALL S PA THE E NY IN E, TH TWC RONIZ S FINI	N LY. S ED FF E OF HE R TC 3Y BE IN TEC VCE. END (ITER E AF VISI ZATI(SHEE TO C E 760	YSTE ROM 1 R THE D SYS I TORS DF TH RUP1 REA BLE DN. D FLC ENTE	THE E STEM HE TION DOR. ER															
	 ACCORDANCE WITH THE MANUFACTURER RISER DIAGRAM FOR FIRE ALARM SYSTEM SHALL BE INSTALLED AND CONNECTED IN MANUFACTURER AND THAT HAVE BEEN AI LOCAL AUTHORITY HAVING JURISDICTION CONTRACTOR TO CONFIRM ALL QUANTITI INSTALLATION. AUTOMATIC FIRE ALARM DETECTORS SHA DUCTWORK, EQUIPMENT AND PIPING ON CACCORDANCE WITH MANUFACTURER'S RE SHALL BE PROVIDED IF NEEDED TO INSUR PER NFPA 72, 18.5.4.4.5 - VISIBLE APPLIAN CORRIDOR WITH A SEPARATION NO GREA OF THE CONCENTRATED VIEWING PATH S SHALL BE CONSIDERED AS A SEPARATE C NOTIFICATION APPLIANCES ARE IN ANY FI MOUNT ALL VISUAL UNITS AT NOT LESS TO MOUNT ALL MANUAL PULL STATIONS WITH OF DEVICE ABOVE FINISHED FLOOR. MEAS ALL WIRING SHALL BE IN ACCORDANCE W WITH NFPA 72. 	I IS DIAGE ACCORD/ PPROVED AS APPLI ES AND LC CEILING. S COMMEN E COMPLI CES SHAL TER THAN UCH AS FI ORRIDOR ELD OF VI HAN 80" AI HIN 5' OF E GUREMEN ITH NFPA	RAMM ANCE BY T CABL DCAT DCATE DCATE DCATE DCATE L BE I 100 IRE D I RE D	DATIC MATIC WITH HE S E. IT ION C D SO NG B ONS COVE NO M FT. B OOR RIDC THEY DT GI WAY BE VI ATIO HOR N PL/	ONS. AND H WIF TATE IS TH DF FIF DF FIF IN AN RAGE IORE ETWI IN AN RAGE IORE S OR V SHAI REAT S ANI ERTIC NAL F	P FOR RING FIRE HE RE RE AL O PF EEN I YY CA E OF THAN ELEY WHEF LL FL D BE CAL. ELEC CAL.	BID J DIAG MAF ESPO LARM DETE ASE. A THE J VATIC RE MC ASH HAN TWEE TRIC	PURF RAM: SSHAI NSIB I DEV NT SH CTOF ADDIT INDIC FT. FF IANCI DN CH DRE 1 IN SY 96" A EN 42 COD	HALL POSE S OB S OB CLIS (LITY ICES HIELC RS SH TON/ ATEI ROM ES. A HANG THAN NCH BOVE T ANE E) AF	BE II S ONI TAINE DFFIC OF T PRIC OF T PRIC ING E IALL I L DE S PA THE E NY IN E, TH TWC RONIZ E FINI 0 48"	N LY. S ED FF ED FF HE R TC 3Y BE IN TEC SHEI ITER FO C SHEI TO C IRIN(YSTE Rom R The S SYS FORS FORS FORS FORS FORS FORS FORS FOR	THE E STEM FION DOR. ER D															
	 ACCORDANCE WITH THE MANUFACTURER RISER DIAGRAM FOR FIRE ALARM SYSTEM SHALL BE INSTALLED AND CONNECTED IN MANUFACTURER AND THAT HAVE BEEN AI LOCAL AUTHORITY HAVING JURISDICTION CONTRACTOR TO CONFIRM ALL QUANTITI INSTALLATION. AUTOMATIC FIRE ALARM DETECTORS SHADUCTWORK, EQUIPMENT AND PIPING ON O ACCORDANCE WITH MANUFACTURER'S RASHALL BE PROVIDED IF NEEDED TO INSUFF PER NFPA 72, 18.5.4.4.5 - VISIBLE APPLIAN CORRIDOR WITH A SEPARATION NO GREA OF THE CONCENTRATED VIEWING PATH S SHALL BE CONSIDERED AS A SEPARATE O NOTIFICATION APPLIANCES ARE IN ANY FI MOUNT ALL VISUAL UNITS AT NOT LESS TO MOUNT ALL VISUAL UNITS AT NOT LESS TO AUTOR SHALL BE IN ACCORDANCE W WITH NFPA 72. CONTRACTOR SHALL BE IN ACCORDANCE W WITH NFPA 72. CONTRACTOR SHALL CHECK ALL RUNS OD SHALL INSTALL AND CHECK FOR ALL RESI ONSTRUCTION. PER NFPA, DETECTORS SHOULD NOT BE IN 	A IS DIAGF ACCORD/ PPROVED AS APPLI ES AND LC ES AND LC E COMPLI CES SHAL TER THAN UCH AS FI ORRIDOR ELD OF VI HAN 80" AI HAN 80" AI HIN 5' OF E SUREMENT ITH NFPA E CABLE F STORS TO ETECTORS	RAMM ANCE BY T ICABL DOCAT CATE SPACI IDATI ETE (L BE I 100 IRE D IRE D IRE D IRE D IRE D IND N OOOR T TO 70 (N OOOR S D BE I S FRC	DATIO MATIC WITH HESSE.IT ION C D SO NG B ONS COVE NO M FT. B OOR RTIDO THEY DT GI WAY BE VI ATIO HOR N PL/ DIREC	ONS. AND HWIF TATE ISTH DFFIF IN AN RAGE IN AN RAGE IN AN SOR SOR SOR SHAI SOR SHAI SANI ERTIC NAL E TS OF ACE. HE EN) FOR RING FIRE HE RE RE AL O PF EEN I VY CA E OF THAN EEN / WHEF LL FL CAL. ELEC CAL. ELEC CAL.	BID DIAG SPO ARM REVEN DETE ASE. A THE N 15 F APPL VATIC RE MC ASH HAN TWEE TRIC	PURF RAM: SSHAI NSIB I DEV NT SF CTOF ADDIT INDIC FT. FF IANCI DN CF DR T IN SY 96" A 200 COD D, FOI	HALL POSE S OB CLIS (LLIS (LLITY ICES HIELE ROM ES. A HANG FLANG FLANG FLANG FLANG FLANG FLANG FLANG FLANG ROP	BE II S ONI FAINE DFFIC OF T PRIC ING E IALL L DEA ING E IALL L DEA ING E IALL S PA THE E NY IN E, TH TWC RONIZ E FINI I J 48" -	N LY. S ED FF ZE OF HE R TC 3Y BE IN TEC SHEI ITER IE AF VISI ZATI(SHEI TO C E 760 IRIN(RT D	YSTE ROM 1 RTHE SSYS FORS FORS FORS FORS FORS FORS FORS FOR	THE E STEM FION DOOR. ER D IG															
	 ACCORDANCE WITH THE MANUFACTURER RISER DIAGRAM FOR FIRE ALARM SYSTEM SHALL BE INSTALLED AND CONNECTED IN MANUFACTURER AND THAT HAVE BEEN AN LOCAL AUTHORITY HAVING JURISDICTION CONTRACTOR TO CONFIRM ALL QUANTITI INSTALLATION. AUTOMATIC FIRE ALARM DETECTORS SHA DUCTWORK, EQUIPMENT AND PIPING ON O ACCORDANCE WITH MANUFACTURER'S RI SHALL BE PROVIDED IF NEEDED TO INSUF PER NFPA 72, 18.5.4.4.5 - VISIBLE APPLIAN CORRIDOR WITH A SEPARATION NO GREA OF THE CONCENTRATED VIEWING PATH S SHALL BE CONSIDERED AS A SEPARATE O NOTIFICATION APPLIANCES ARE IN ANY FI MOUNT ALL VISUAL UNITS AT NOT LESS TO MOUNT ALL VISUAL UNITS AT NOT LESS TO ALL WIRING SHALL BE IN ACCORDANCE W WITH NFPA 72. CONTRACTOR SHALL CHECK ALL RUNS ON SHALL INSTALL AND CHECK FOR ALL RESI CONTRACTOR SHALL PROTECT SMOKE DI CONSTRUCTION. 	IS DIAGF ACCORD/ PROVED AS APPLI ES AND LO ES AND LO ES AND LO ECOMMEN E COMPLI CES SHAL TER THAN JCH AS F ORRIDOR ELD OF VI HAN 80" AI HIN 5' OF E SUREMEN ITH NFPA F CABLE F STORS TO ETECTORS OCATED DR RETUF	RAMM ANCE BY T ICABL DCAT CATE FRACI IDATI ETE (L BE I 100 IRE D ICATE EW, 1 ND N/ DOOR T TO 70 (N OOR S D BE I OOR S D BE I IN A I RN OF	DATIO MATIC WITH HESS E.IT ION C D SO NG B ONS COVE NO M FT. B OOR RTIDO THEY DT GI WAY BE VI ATIO HOR THEY DT GI HOR THEY DIREC PENIN	ONS. AND HWIF TATE ISTH DFFIF IN AN RAGE IORE ETWI IN AN RAGE IORE ETWI SOR SHAI REAT SANI ERTIC NAL E TS OF ACE. HE EN CT AII IG.	P FOR RING FIRE HE RE RE AL CO PF EEN I NY CA E OF THAN ELE' WHEF LL FL D BE' CAL. ELEC CAL. ELEC R GR NTRA R-FLC	REVEN SEVEN CARM REVEN DETE ASE. / APPL VATIO RE MO ASH THAN TWEE TRIC OUNE NCE (DW A	PURF RAM: SHAI NSIB I DEV NT SH CTOF ADDIT INDIC FT. FF IANCI DN CF DRE 1 IN SY 96" A EN 42 COD D, FOI OF DI ND N ATIOF	HALL POSE S OB CLIS (LITY ICES ILLS (ILTY ICES ILTY IC	BE II S ONI FAINE DFFIC OF T PRIC ING E IALL ING E ING E IALL ING E IALL IALL ING E IALL ING E IALL IALL ING E IALL ING E IALL IALL IAL	N LY. S ED FF E OF HE R TC 3Y BE IN R TC 3Y ITER SHEL TO C E 760 IRINO R TD R TD R TD R TD R TD R TD	YSTE ROM : RTHE PSYS FORS FORS DF TH RUPT RUPT RUPT RUPT RUPT RUPT RUPT RUPT	THE E BTEM BTEM I B TION D D C D C C C C C C C C C C C C C C C															



	FIRE	E ALARM SYSTEM RISER LEGEND:		
	F	FIRE ALARM SPEAKER/ STROBE (VISUAL OUTPUT @ 110 CANDELAS)	AOM	ADDRESSABLE OUTPUT MODULE.
	F	FIRE ALARM HORN/ STROBE (VISUAL OUTPUT @ 110 CANDELAS)	IAM TS	INDIVIDUAL ADDRESSABLE MONITOR
	F	MANUAL FIRE ALARM DUAL-ACTION PULL STATION. MOUNT TOP OF PULL STATION @ 48" A.F.F.	FS	FIRE ALARM FLOW SWITCH
	F	WALL MOUNTED FIRE ALARM STROBE LIGHT. MOUNT @ 80" A.F.F. OR 6" BELOW CEILING. 'C' DENOTES CEILING	PIV	FIRE ALARM POST INDICATING VALVE
	\frown	MOUNTED	FACP	FIRE ALARM CONTROL PANEL
	(H)	CEILING MOUNTED FIRE ALARM HEAT DETECTOR	FAA	FIRE ALARM REMOTE ANNUNCIATOR
	S	CEILING MOUNTED FIRE ALARM SMOKE DETECTOR SB = SOUNDER BASE D = DUCT TYPE	NAC	NOTIFICATION APPLIANCE CIRCUIT P
		DEDUCTITE	C	FIRE FIGHTER PHONE JACK
	ICP	FOUR (4) CIRCUIT FIRE ALARM INDICATING CIRCUIT POWER EXTENDER.		
	IM	SIGNALING LINE CIRCUIT ISOLATION MODULE.		
 	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		$\overline{\gamma}$	$\overline{\}$
Ľ	ATRIUM	SMOKE EVACUATION SYSTEM INTERF	ACE:	$\left\{ \right.$
r r		STEM INPUT AND OUTPUT MODULES TO INTERFACE THE FIRI D DEVICES TO THE OPERATION OF THE SMOKE EVACUATION S S:		
८ ८		UTOMATIC SYSTEM INITIATION SIGNAL UPON DETECTION OF TECTOR IN THE ATRIUM.	SMOKE BY	\$
د د		ACE TO SYSTEM OFF SIGNAL, WHICH WILL OVERRIDE SMOKE FION SIGNAL.		5
ر		L ON SIGNAL FROM CONTROL PANEL SHALL INITIATE ALL OUT R TO ATRIUM SMOKE DETECTOR.	PUTS	}
2	- EXTEND	WIRING IN EMT TO CONTROL PANEL. TERMINATION OF WIRIN	NG AT	}

PANEL BY M.C.

E SY

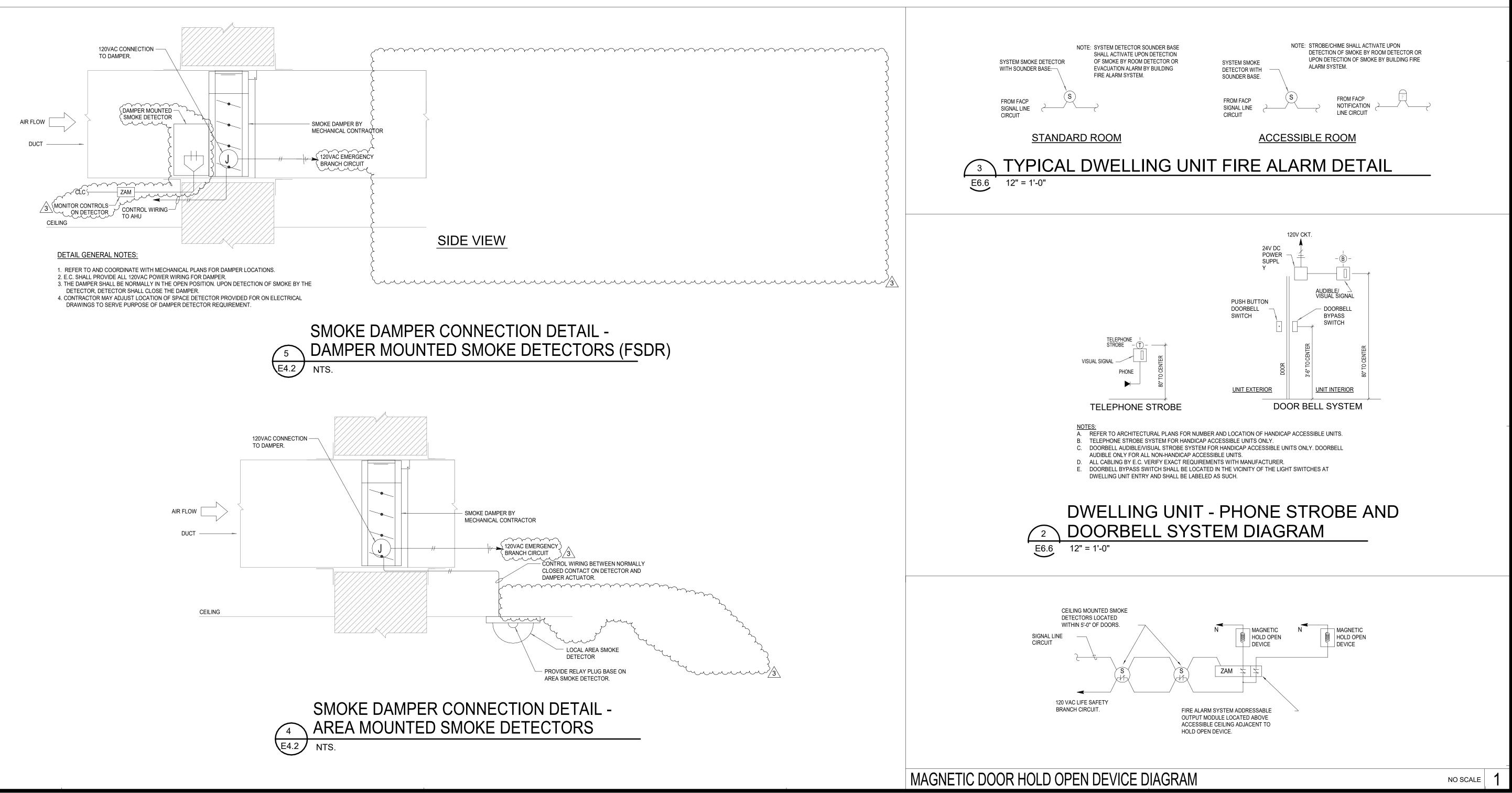


	FIRE ALARM KEYED NOTES:
OR MODULE.	1. COORDINATE WITH DRAWINGS/ SPRINKLER CONTRACTOR FOR ACTUAL NUMBER OF TAMPER AND FLOW SWITCHES REQUIRED TO BE MONITORED ON THE FIRE SUPPRESSION RISER AND THE SUPPRESSION ZONES ON EACH FLOOR.
	2. EXTEND TO ELEVATOR CONTROLLER FOR FIREMAN RECALL. TYPICAL FOR ALL ELEVATOR LOBBY SMOKE DETECTORS.
LVE	3. TO STAIR PRESSURIZATION FAN FIRE ALARM CONTACTS FOR AUTOMATIC ACTIVATION OF FANS THROUGH FIRE SYSTEM (TYPICAL)
	4. TO STAIRWELL PRESSURIZATION FAN CONTROL PANEL(S).
OR T PANEL	5. EXISTING JOHNSON CONTROL FIRE ALARM CONTROL PANEL. SHALL BE MODIFIED TO ACCEPT ANNUNCIATION FROM NEW LINDBERGH BUILDING SYSTEM.
	6. FIBER OPTIC TERMINATION CABINET IN EXISTING COMMUNICATIONS ROOM. PATCH NEW FIBER OPTIC CABLE TO EXISTING FIRE ALARM SYSTEM FIBER OPTIC NETWORK.
	7. EXISTING FIBER OPTIC COMMUNICATIONS CARD IN JOHNSON CONTROLS
	8. CONNECT NEW FIBER OPTIC CABLES TO EXISTING FIBER OPTIC FIRE ALARM
	9. FIBER OPTIC COMMUNICATION CABLING IN 2" CONDUIT, 6 STRAND MULTIMODE CABLE OR AS PER FIRE ALARM MANUFACTURER. EXTEND TO EXISTING TWR BLD

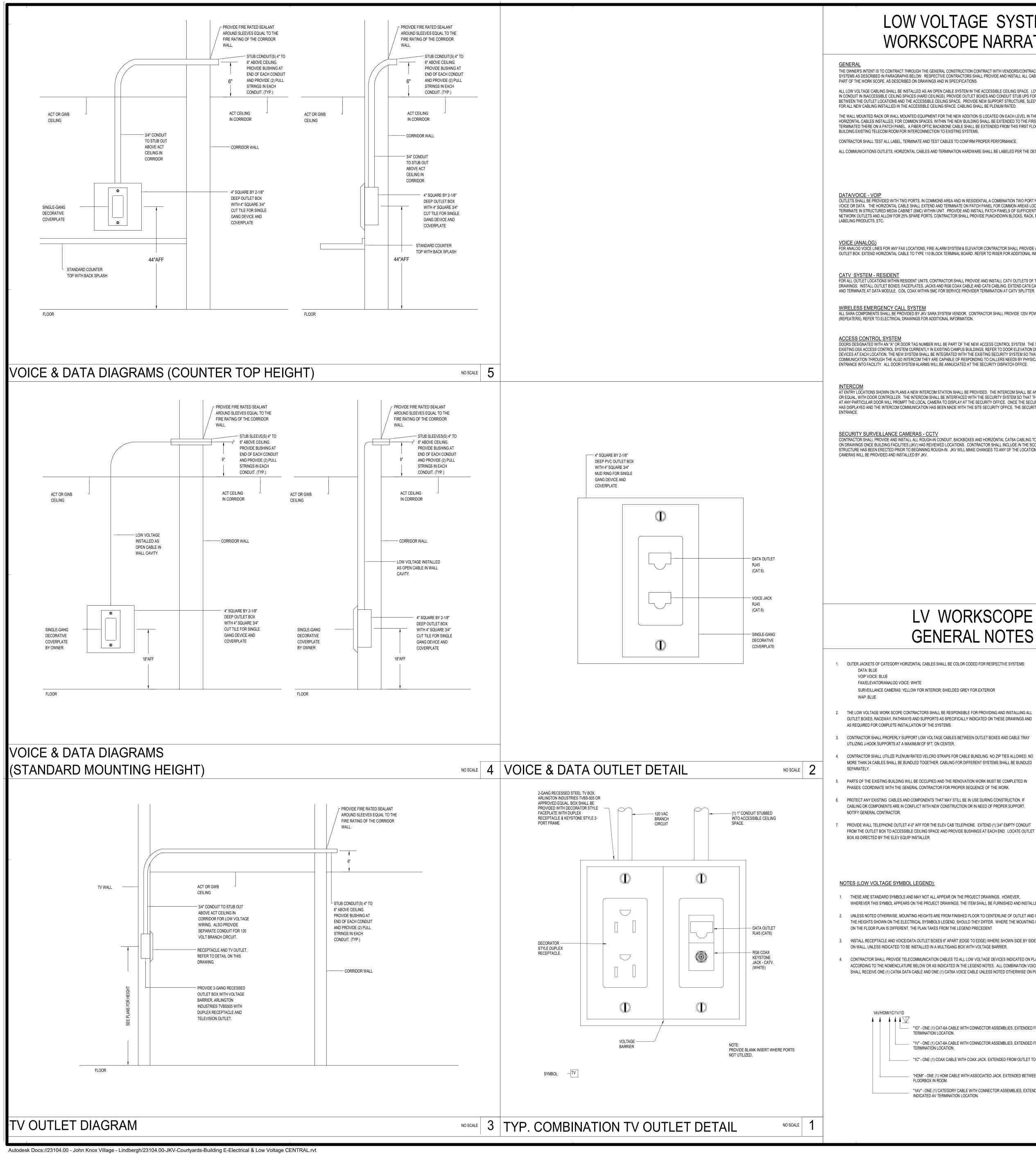
NETWORK PANEL. { 10. 12 STRAND, MULTIMODE, WALL MOUNT, SPLICE ENCLOSURE.

ROOF NOTIFICATION APPLIANCE CIRCUIT (4TH FLOOR) SIGNALING LINE CIRCUIT (4TH FLOOR) NAC4 TYP. SMOKE DETECTORS MANUAL PULL STATIONS _ ____ 4TH FLOOR SIGNALING LINE CIRCUIT (3RD FLOOR) NOTIFICATION APPLIANCE CIRCUIT (3RD FLOOR) NAC3 120V FM TYP. SMOKE DETECTORS MANUAL PULL STATIONS SRD FLOOR SIGNALING LINE CIRCUIT (2ND FLOOR) NOTIFICATION APPLIANCE CIRCUIT (2ND FLOOR) ••• ~____ · · · · · · TYP. SMOKE DETECTORS TYP. SMOKE DETECTORS MANUAL PULL STATIONS _ ____ 2ND FLOOR _ ____ _ _ _ _ SIGNALING LINE CIRCUIT (1ST FLOOR) ••• ~____ 120V EM FIRE ALARM RISER CABLING INSTALLED IN CONDUIT. PROVIDE FIRE STOPPING AT FLOOR PENETRATIONS. (TYP) TYP. SMOKE DETECTORS TYP. SMOKE DETECTORS MANUAL PULL STATIONS FACP TO DOOR ACCESS POWER SUPPLY FIRE ALARM CONTACTS FOR AUTOMATIC LOCK RELEASE IAM MAIN FIRE ALARM CONTROL PANEL FAA 10 FIC  $\sim$ VESTIBULE } mm  $\sim$ ELEC. E115 120V, 20A CIRCUIT  $\mathcal{M}$ 

CONSTRUCTION SET	PROJECT TITLE PROJECT TITLE PROJEC
Definition visition visite visitio visitio visite visition visition visition visition vis	Image: Constraint of the system         Designer : DAS       DRAWN : MAW, DKW         Architect : DAS       DRAWN : MAW, DKW         Architect : DAS       CHECKED : MAW         ENGINEER : MAW       APPROVED : JSK         NO.       REVISION DESCRIPTION       DAT
COURTYARDS - BUILDING E         Architecture Engineering Planning Interiors         SFCS Inc. • 305 South Jefferson Street Roanoke, Virginia 24011.2003         540.344.6664 • Fax 540.343.6925         WWW.sfcs.com         DESIGNER : DAS         DRAWN : MAW, DKW         ARCHITECT : DAS         CHECKED : MAW         ENGINEER : MAW         APPROVED : JSK         NO.         REVISION DESCRIPTION         DATE         JANUARY 5, 2024         DRAWING TITLE         January 5, 2024         DRAWING	COURTYARDS - BUILDING E         Architecture Engineering Planning Interiors         SFCS Inc. • 305 South Jefferson Street Roanoke, Virginia 24011.2003         SFCS Inc. • 305 South Jefferson Street Roanoke, Virginia 24011.2003         S40.344.6664 • Fax 540.343.6925         WWW.sfcs.com         DESIGNER : DAS         DRAWN : MAW, DKW         Architectr : DAS         DRAWN : MAW, DKW         ARCHITECT : DAS         CHECKED : MAW         ENGINEER : MAW         APPROVED : JSK         NO.       REVISION DESCRIPTION
SECS       Architecture Engineering Planning Interiors         SFCS Inc. • 305 South Jefferson Street Roanoke, Virginia 24011.2003 540.344.6664 • Fax 540.343.6925 www.sfcs.com         DESIGNER : DAS       DRAWN : MAW, DKW         ARCHITECT : DAS       CHECKED : MAW         ENGINEER : MAW       APPROVED : JSK         NO.       REVISION DESCRIPTION         J       Addendum #1         O3/07/24	State       Architecture         Engineering       Planning         Planning       Interiors         SFCS Inc.       305 South Jefferson Street         Roanoke, Virginia 24011.2003       540.344.6664         540.344.6664       Fax 540.343.6925         www.sfcs.com       DRAWN       MAW, DKW         DESIGNER       DAS       CHECKED       MAW         ARCHITECT       DAS       CHECKED       MAW         ENGINEER       MAW       APPROVED       JSK         NO.       REVISION DESCRIPTION       DAT
SFCS Inc. • 305 South Jefferson Street Roanoke, Virginia 24011.2003 540.344.6664 • Fax 540.343.6925 www.sfcs.com	Stocs       Engineering Planning Interiors         SFCS Inc.       305 South Jefferson Street Roanoke, Virginia 24011.2003         540.344.6664       Fax 540.343.6925         www.sfcs.com       DRAWN : MAW, DKW         DESIGNER : DAS       DRAWN : MAW, DKW         ARCHITECT : DAS       CHECKED : MAW         ENGINEER : MAW       APPROVED : JSK         NO.       REVISION DESCRIPTION       DAT
3       Addendum #1       03/07/24         DRAWING TITLE       DRAWING TITLE         FIRE ALARM RISER         DATE:       January 5, 2024         DATE:       January 5, 2024	
DRAWING TITLE FIRE ALARM RISER	<u>3</u> Addendum #1 03/07/24
FIRE ALARM RISER	
23104.00 <b>LUJ</b>	FIRE ALARM RISER         DATE:       January 5, 2024



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PROJECT TITLE	
John Kno	ox Village
COURTYARD	S - BUILDING E
SFCS Inc. • 305 Sou Roanoke, Virginia 240 540.344.6664 • Fax 5 www.sfcs.com	011.2003
DESIGNER : DAS	DRAWN .: MAW, DKW
ARCHITECT : DAS	CHECKED : MAW
ENGINEER : MAW	APPROVED : JSK
NO. REVISION E	DESCRIPTION DATE
3 Addendu	um #1 03/07/24
drawing title FIRE ALARM [	DETAILS
DATE: January 5, 2024	
COMM. NO. 23104.00	E6.6



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# LOW VOLTAGE SYSTEMS

## LOW VOLTAGE SYMBOL LEGEND

"W" = WALL TYPE TELEPHONE OUTLET MOUNTED 52" AFF AND PROVIDED WITH RECESSED

"EL" = ELEVATOR EMERGENCY TELEPHONE. WALL TYPE TELEPHONE OUTLET MOUNTED 46"

AFF AND PROVIDED WITH RECESSED STAINLESS STEEL WALL PHONE MOUNT

"#V" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR

"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR

ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (2) DATA CABLE (2D) TO

"#V/#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW

"#V" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR

ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO

FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (2) DATA (2D) AND (1)

"R" = EXTEND DATA AND VOICE CABLES TO DWELLING UNIT COMM. ENCLOSURE AND

JACK. EXTEND CABLES TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR.

, TERMINATE. ÇABLING ŞHALL BE RAN OPEN IN RESIDENT UNITS.

VOICE (1V) CABLES TO OUTLET LOCATION.

TO NEAREST IDE LOCATION ON RESPECTIVE FLOOR

OUTLET LOCATION.

ADDITIONAL INFORMATION. IF NO # INDICATED. PROVIDE (1) VOICE CABLE (1V) TO

STAINLESS STEEL WALL PHONE MOUNT FACEPLATE.

FACEPLATE.

OUTLET LOCATION.

OUTLET LOCATION.

DESCRIPTION

TELEPHONE OUTLET, WALL. SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE-RROWIDEY

3 WITH ONE (1) CAT 6 RU45 JACK EXTEND CAT 6A VOICE CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOP RESIDENT

DATA OUTLET, WALL. SINGLE GANG OUTLET BOX WITH 1" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH

COMBINATION VOICE/DATA OUTLET, WALL. TWO-GANG OUTLET BOX WITH SINGLE GANG MUG RING AND 1-1/4" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH TWO (2) CAT 6A RJ45 DATA JACK AND ONE (1) CAT 6A RJ45 VOICE

AREA OF RESCUE ASSISTANCE MASTER STATION. SUBSCRIPT INDICATES SYSTEM. SINGLE GANG OUTLET BOX WITH 3/4" CONDUIT STUB INTO ACCESSIBLE CEILING SPACE. PROVIDE WITH ONE (1) CAT 5e RJ11 JACK. EXTEND CAT 5e VOICE CABLE

TWO (2) CAT 6 RJ45 JACK. EXTEND CAT 6A DATA CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR.

SCOPE NARRATIVE	MTG. HGT. (NOTE 2)	SYMBOL (NOTE 3)
SENERAL CONSTRUCTION CONTRACT WITH VENDORS/CONTRACTORS TO SUPPLY ALL LOW VOLTAGE PECTIVE CONTRACTORS SHALL PROVIDE AND INSTALL ALL CABLING, COMPONENTS AND HARDWARE AS	1'-6"	K ■ ^{1V} R
IGS AND IN SPECIFICATIONS. I OPEN CABLE SYSTEM IN THE ACCESSIBLE CEILING SPACE. LOW VOLTAGE CABLING SHALL BE INSTALLED EILINGS). PROVIDE OUTLET BOXES AND CONDUIT STUB UPS FOR ROUTING CABLES CONCEALED IN WALLS .E CEILING SPACE. PROVIDE NEW SUPPORT STRUCTURE, SLEEVES AND FIRESTOPPING AS REQUIRED CEILING SPACE. CABLING SHALL BE PLENUM RATED.	ABOVE COUNTER	×
ENT FOR THE NEW ADDITION IS LOCATED ON EACH LEVEL IN THE "COMM" ROOMS. VOICE, DATA, SECURITY S, WITHIN THE NEW BUILDING SHALL BE EXTENDED TO THE FIRST FLOOR TELE "COMM" ROOM AND C BACKBONE CABLE SHALL BE EXTENDED FROM THIS FIRST FLOOR COMM ROOM "MDF" BACK TO THE "B" CTION TO EXISTING SYSTEMS.		
TEST CABLES TO CONFIRM PROPER PERFORMANCE. AND TERMINATION HARDWARE SHALL BE LABELED PER THE DESIGNED LABELING SCHEME DETAIL.	1'-6"	K ^{2D} _R
	ABOVE COUNTER	$\left \right\rangle$
MMONS AREA AND IN RESIDENTIAL A COMBINATION TWO PORT FOR DATA/VOICE OR SINGLE PORT FOR ND AND TERMINATE ON PATCH PANEL FOR COMMON AREAS LOCATIONS. RESIDENT UNIT CABLING WILL HIN UNIT. PROVIDE AND INSTALL PATCH PANELS OF SUFFICIENT CAPACITY TO TERMINATE ALL NEW DATA	1'-6"	R #V/#D
S. CONTRACTOR SHALL PROVIDE PUNCHDOWN BLOCKS, RACK, PATCH PANELS, CABLE MANAGEMENT,	ABOVE COUNTER	×
RE ALARM SYSTEM & ELEVATOR CONTRACTOR SHALL PROVIDE AND INSTALL JACK IN SINGLE GANG BLOCK TERMINAL BOARD. REFER TO RISER FOR ADDITIONAL INFORMAITON.	01.401	
CONTRACTOR SHALL PROVIDE AND INSTALL CATV OUTLETS OF TYPE AND NUMBER AS SHOWN ON THE KS AND RG6 COAX CABLE AND CAT6 CABLING. EXTEND CAT6 CABLING AND COAX CABLING BACK TO SMC SMC FOR SERVICE PROVIDER TERMINATION AT CATV SPLITTER.	3-10"	IV Ma
ARA SYSTEM VENDOR. CONTRACTOR SHALL PROVIDE 120V POWER FOR THE SYSTEM TRANCEIVERS DDITIONAL INFORMATION.	FLOOR	<b>■</b> ^{1V}
R WILL BE PART OF THE NEW ACCESS CONTROL SYSTEM. THE SYSTEM SHALL BE COMPATIBLE WITH THE N EXISTING CAMPUS BUILDINGS. REFER TO DOOR ELEVATION DETAILS FOR ADDITIONAL INFORMATION FOR BE INTEGRATED WITH THE EXISTING SECURITY SYSTEM SO THAT WHEN SECURITY DISPATCH RECEIVES ARE CAPABLE OF RESPONDING TO CALLERS NEEDS BY PHYSICALLY OR REMOTELY PERMITTING WILL BE ANNUCIATED AT THE SECURITY DISPATCH OFFICE.	FLOOR	
OM STATION SHALL BE PROVIDED. THE INTERCOM SHALL BE AN IP BASED, AUDIO INTERCOM, ALGO 8028 HALL BE INTERFACED WITH THE SECURITY SYSTEM SO THAT THE OPERATION OF THE INTERCOM STATION IMERA TO DISPLAY AT THE SECURITY OFFICE. ONCE THE SECURITY CAMERA FOR THE RESPECTIVE DOOR	FLOOR	1V/1D
IAS BEEN MADE WITH THE SITE SECURITY OFFICE, THE SECURITY OFFICER MAY PERMIT FACILITY	1'-6" UON	-TV
-I V I-IN CONDUIT, BACKBOXES AND HORIZONTAL CAT6A CABLING TO THE NEW CAMERA LOCATIONS SHOWN VIEWED LOCATIONS. CONTRACTOR SHALL INCLUDE IN THE SCOPE A COORDINATION MEETING AFTER THE ROUGH-IN. JKV WILL MAKE CHANGES TO ANY OF THE LOCATIONS AT THAT TIME. ALL NEW SECURITY		
	CEILING	WAP 1D
	CEILING	C TD EXT.
	WALL	C C
WORKSCOPE NERAL NOTES		
ES SHALL BE COLOR CODED FOR RESPECTIVE SYSTEMS: ERIOR: SHIELDED GREY FOR EXTERIOR	3'-10"	[1] [1] MS
SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL INTS AS SPECIFICALLY INDICATED ON THESE DRAWINGS AND	4'-0"	(A)
IE SYSTEMS. DLTAGE CABLES BETWEEN OUTLET BOXES AND CABLE TRAY T. ON CENTER.		M

FLOOR	∎¶1V	PHONE OUTLET, FLOOR. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. "#V" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) VOICE CABLE (1V) TO OUTLET LOCATION.
FLOOR		DATA OUTLET, FLOOR. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. "#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION.
FLOOR	1V/1D	COMBINATION PHONE & DATA OUTLET, FLOOR. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. "#V/#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA (1D) AND (1) VOICE (1V) CABLES TO OUTLET LOCATION.
1'-6" UON	-TV	WALL MOUNTED COMBINATION RECEPTACLE AND TV OUTLET WITH VOLTAGE BARRIER. PROVIDE WITH (1) 120V DUPLEX RECEPTACLE, (1) TYPE F COAX CONNECTOR WITH RG6 COAX CABLE AND (1) CAT6 CABLE WITH RJ45 JACK TO NEAREST IDF OR SMC. USE RG11 COAX CABLE FOR RUNS GREATER THAN 200FT. TYPICAL FOR DIGITAL SIGNAGE DISPLAY MONITOR ALSO.
		"R" = EXTEND RG6 COAX CATV CABLE TO DWELLING UNIT COMM. ENCLOSURE AND TERMINATE. "+##" = REFERS TO DIFFERENT ABOVE FLOOR MOUNTING HEIGHT. CONTRACTOR SHALL VERIFY EXACT MOUNTING LOCATION WITH ARCHITECT TO AVOID CONFLICT WITH WALL TV MOUNTS AND/OR CASEWORK.
CEILING	WAP 1D	LAN SYSTEM, WIRELESS ACCESS POINT (WAP): FIELD MOUNTABLE CAT6A RJ45 PLUG SHALL BE UTILIZED FOR CONNECTION TO DEVICE. EXTEND ONE (1) CAT 6 HORIZONTAL CABLE TO NEAREST IDF LOCATION ON RESPECTIVE FLOOR. WAP DEVICE SHALL BE PROVIDED BY OWNER AND CONNECTED/INSTALLED BY CONTRACTOR.
		"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION.
CEILING		FIXED SECURITY CAMERA - INTERIOR MOUNT. INSTALL FLUSH MOUNT SINGLE GANG OUTLET BOX AND 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT MOUNTING REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. CAMERA DEVICE SHALL BE PROVIDED BY OWNER AND CONNECTED/INSTALLED BY OWNER.
		"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION.
		"360" - INDICATES 360 DEGREE CAMERA TO BE CEILING MOUNTED. "EXT" - INDICATES EXTERIOR MOUNTED CAMERA. "AV" - FIXED AUDIO VISUAL SYSTEM CAMERA. REFER TO DETAILS FOR MORE INFORMATION.
WALL	EXT.	FIXED SECURITY CAMERA - INTERIOR MOUNT. INSTALL FLUSH MOUNT SINGLE GANG OUTLET BOX AND 3/4" CONDUIT, U.O.N., WITH CAT6A HORIZONTAL CABLING TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT MOUNTING REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. CAMERAS SHALL BE PROVIDED AND INSTALLED BY OWNER.
		"#D" - INDICATES CABLING SCOPE TYPE & QTY. REFER TO LOW VOLTAGE NOTES BELOW FOR ADDITIONAL INFORMATION. IF NO # INDICATED, PROVIDE (1) DATA CABLE (1D) TO OUTLET LOCATION.
		"180" - INDICATES 180 DEGREE CAMERA TO BE WALL MOUNTED. "EXT" - INDICATES EXTERIOR MOUNTED CAMERA. "AV" - FIXED AUDIO VISUAL SYSTEM CAMERA. REFER TO DETAILS FOR MORE INFORMATION.
3'-10"		INTERCOM SYSTEM CALL-IN STATION, WALL.
	— I MS	INTERCOM SYSTEM MASTER STATION.
	A	DESIGNATED DOOR TO BE PROVIDED WITH ACCESS CONTROL. REFER TO DOOR ELEVATIONS FOR ADDITIONAL INFORMATION.
4'-0"	CR	ACCESS CONTROL SYSTEM CARD READER. INSTALL WITH FLUSH MOUNT SINGLE GANG OUTLET BOX AND 1/2" C TO ACCESSIBLE CEILING SPACE. "M" - INDICATES MULLION MOUNTED CARD READER.
	DC	DOOR "AJAR" CONTACT. INSTALL 1/2" C IN DOOR FRAME TO ACCESSIBLE CEILING SPACE. COORDINATE EXACT REQUIREMENTS WITH OWNER'S ACCESS CONTROL VENDOR.
6'-0"	— D	MAGNETIC DOOR HOLDER, WALL. "F" = FLUSH MOUNTED.
	D	MAGNETIC DOOR HOLDER, FLOOR.
	WG	DELAYED EGRESS ELOPEMENT CONTROL SYSTEM DOOR LOCATION. REFER TO DOOR ELEVATION DETAIL FOR ADDITIONAL INFORMATION.
6'-6"		WIRELESS DOORBELL - WITH AUDIO VISUAL NOTIFIER, WALL MOUNT.
3'-6"	DB	PUSHBUTTON, WALL.
7'-6"	HPR	EMERGENCY CALL HIGH POWER REPEATER FOR SARA SYSTEM WIRELESS DEVICES. DEVICES SHALL BE PROVIDED AND INSTALLED BY OWNER OR OWNER'S SARA SYSTEM REPRESENTATIVE UNDER SEPARATE CONTRACT (NIC). CONTRACTOR SHALL COORDINATE HEIGHT AND FINAL LOCATIONS WITH OWNER/VENDOR PRIOR TO ROUGH-IN AND SHALL PROVIDE A 120V CIRCUIT FOR SYSTEM DEVICES.
3	N OR E	EMERGENCY CALL STATION FOR SARA SYSTEM.
$\sim$	ARA	AREA OR RESCUE BASE STATION/CONTROL PANEL FOR TWO-WAY COMMUNICATIONS

AREA OR RESCUE BASE STATION/CONTROL PANEL FOR TWO-WAY COMMUNICATIONS.

AREA OR RESCUE CALL STATION FOR TWO-WAY COMMUNICATIONS - ALGO 8208 INTERCOM.

<u>ID):</u>
T ALL APPEAR ON THE PROJECT DRAWINGS. HOWEVER, ROJECT DRAWINGS, THE ITEM SHALL BE FURNISHED AND INSTALLED.
ITS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET AND SHALL

O CENTERLINE OF OUTLET AND SHALL MATCH . THE HEIGHTS SHOWN ON THE ELECTRICAL SYSMBOLS LEGEND, SHOULD THEY DIFFER. WHERE THE MOUNTING HEIGHT INDICATED

INSTALL RECEPTACLE AND VOICE/DATA OUTLET BOXES 6" APART (EDGE TO EDGE) WHERE SHOWN SIDE BY SIDE

4. CONTRACTOR SHALL PROVIDE TELECOMMUNICATION CABLES TO ALL LOW VOLTAGE DEVICES INDICATED ON PLANS ACCORDING TO THE NOMENCLATURE BELOW OR AS INDICATED IN THE LEGEND NOTES. ALL COMBINATION VOICE/DATA OUTLETS SHALL RECEIVE ONE (1) CAT6A DATA CABLE AND ONE (1) CAT6A VOICE CABLE UNLESS NOTED OTHERWISE ON PLAN DRAWINGS.

> - "1D" - ONE (1) CAT-6A CABLE WITH CONNECTOR ASSEMBLIES, EXTENDED FROM OUTLET TO INDICATED TERMINATION LOCATION. "1V" - ONE (1) CAT-6A CABLE WITH CONNECTOR ASSEMBLIES, EXTENDED FROM OUTLET TO TERMINATION LOCATION.

"1C" - ONE (1) COAX CABLE WITH COAX JACK. EXTENDED FROM OUTLET TO LOCAL MDF/IDF RM.

"HDMI" - ONE (1) HDMI CABLE WITH ASSOCIATED JACK. EXTENDED BETWEEN WALL BOX AND

FLOORBOX IN ROOM. "1AV" - ONE (1) CATEGORY CABLE WITH CONNECTOR ASSEMBLIES, EXTENDED FROM OUTLET TO INDICATED AV TERMINATION LOCATION.

ARA

ARC

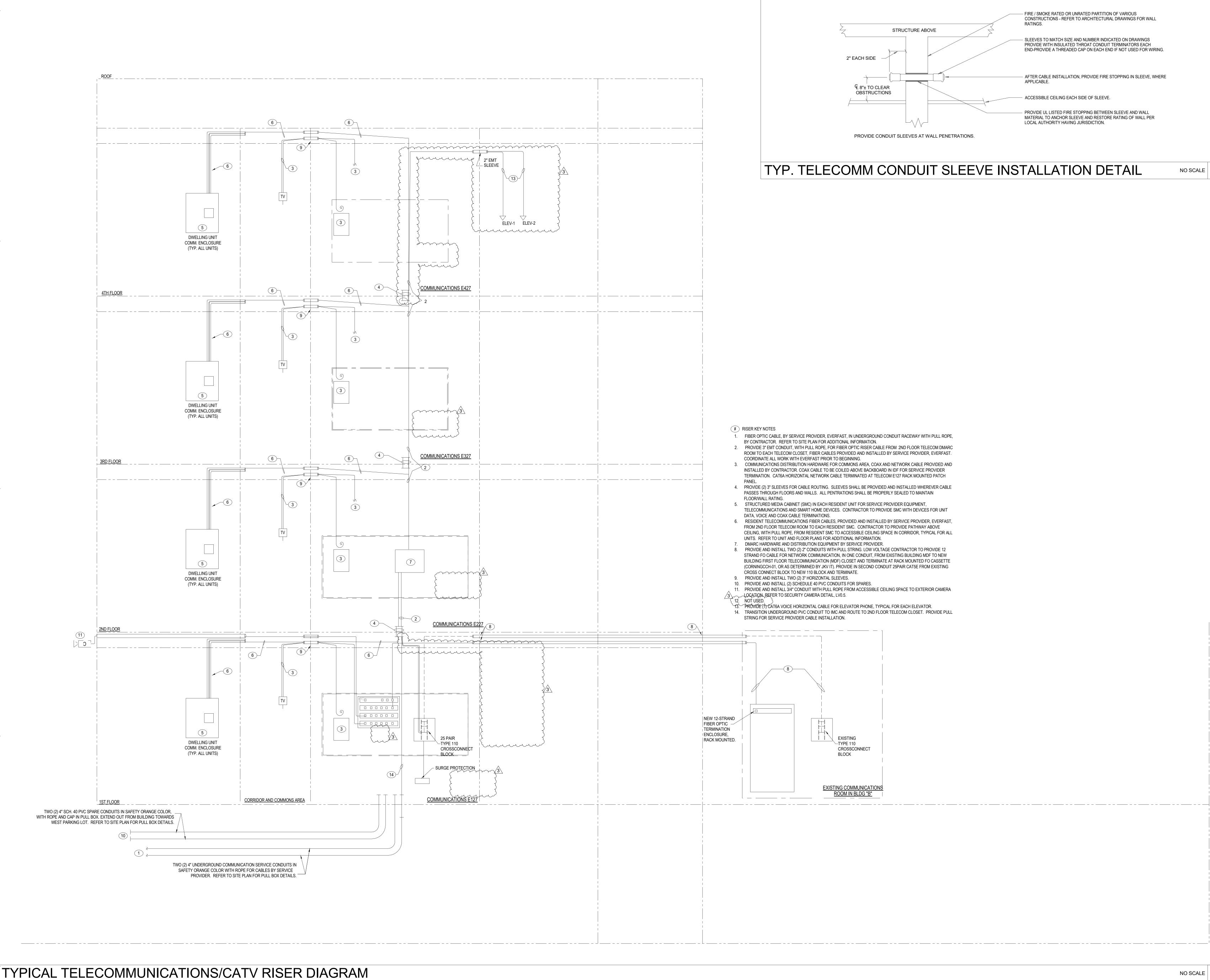
(NOTE 1)

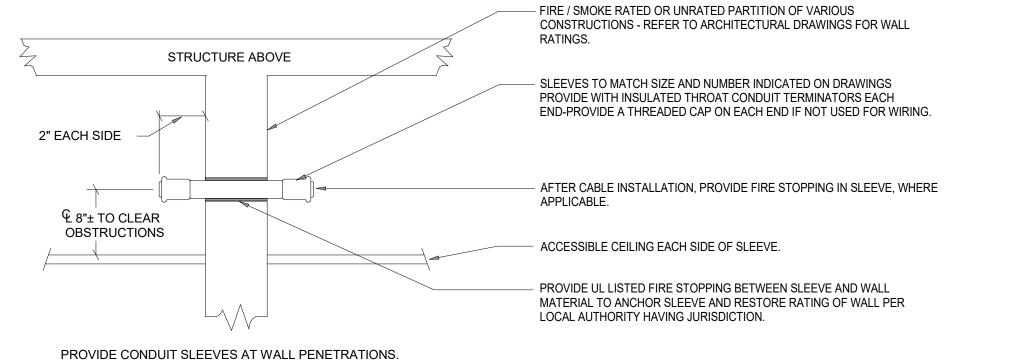
NOTES (LOW VOLTAGE SYMBOL LEGEND):

- THESE ARE STANDARD SYMBOLS AND MAY NOT ALL APPEAR ON THE PROJECT DRAWINGS. HOWEVER, WHEREVER THIS SYMBOL APPEARS ON THE PROJECT DRAWINGS, THE ITEM SHALL BE FURNISHED AND INSTALLED.
- UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS ARE FROM FINISHED FLOOR T CENTERLINE OF OUTLET. LOW VOLTAGE OUTLET BOX MOUNTING HEIGHTS SHALL MATCH THAT SHOWN ON THE ELECTRICAL SYMBOLS LEGEND PLAN. WHERE THE
- MOUNTING HEIGHT INDICATED ON FLOOR PLANS ARE DIFFERENT FROM THE LEGEND THE PLAN TAKES PRECEDENT. INSTALL RECEPTACLE AND VOICE/DATA OUTLET BOXES 6" APART (EDGE TO EDGE) WHERE SHOWN SIDE BY SIDE ON WALL, UNLESS INDICATED TO BE INSTALLED IN A MULTIGANG BOX WITH VOLTAGE BARRIER.

SHEET LIST - LOW VOLTAGE		
SHEET NUMBER	SHEET NAME	
LV0.0	LOW VOLTAGE SYMBOL LEGEND	
LV0.1	LOW VOLTAGE DETAILS	
LV0.2	LOW VOLTAGE DETAILS	
LV0.3	DOOR ELEVATION AND DETAILS	
LV0.4	LOW VOLTAGE - SECURITY DETAILS	
LV0.5	LOW VOLTAGE SITE PLAN	
LV1.1	FIRST FLOOR PLAN - LOW VOLTAGE	
LV1.2	SECOND FLOOR PLAN - LOW VOLTAGE	
LV1.3	THIRD FLOOR PLAN - LOW VOLTAGE	
LV1.4	FOURTH FLOOR PLAN - LOW VOLTAGE	
LV2.1	ENLARGED PLANS - LOW VOLTAGE	
LV2.2	ENLARGED PLANS - LOW VOLTAGE	







## TYP. TELECOMM CONDUIT SLEEVE INSTALLATION DETAIL

1. FIBER OPTIC CABLE, BY SERVICE PROVIDER, EVERFAST, IN UNDERGROUND CONDUIT RACEWAY WITH PULL ROPE, 2. PROVIDE 3" EMT CONDUIT, WITH PULL ROPE, FOR FIBER OPTIC RISER CABLE FROM 2ND FLOOR TELECOM DMARC ROOM TO EACH TELECOM CLOSET, FIBER CABLES PROVIDED AND INSTALLED BY SERVICE PROVIDER, EVERFAST.

INSTALLED BY CONTRACTOR. COAX CABLE TO BE COILED ABOVE BACKBOARD IN IDF FOR SERVICE PROVIDER TERMINATION. CAT6A HORIZONTAL NETWORK CABLE TERMINATED AT TELECOM E127 RACK MOUNTED PATCH

TELECOMMUNICATIONS AND SMART HOME DEVICES. CONTRACTOR TO PROVIDE SMC WITH DEVICES FOR UNIT

FROM 2ND FLOOR TELECOM ROOM TO EACH RESIDENT SMC. CONTRACTOR TO PROVIDE PATHWAY ABOVE CEILING, WITH PULL ROPE, FROM RESIDENT SMC TO ACCESSIBLE CEILING SPACE IN CORRIDOR, TYPICAL FOR ALL

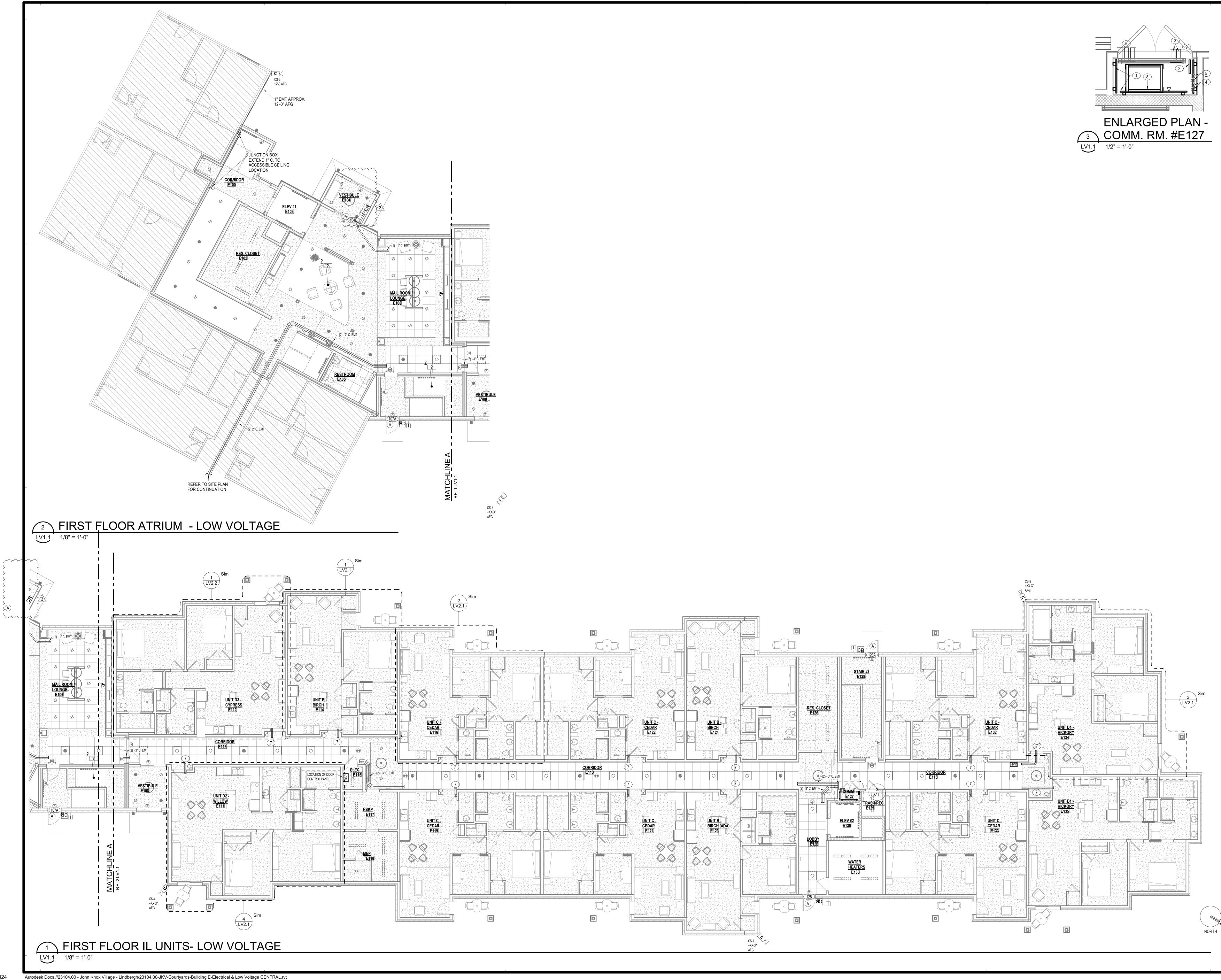
STRAND FO CABLE FOR NETWORK COMMUNICATION, IN ONE CONDUIT, FROM EXISTING BUILDING MDF TO NEW BUILDING FIRST FLOOR TELECOMMUNICATION (MDF) CLOSET AND TERMINATE AT RACK MOUNTED FO CASSETTE (CORNINGCCH-01, OR AS DETERMINED BY JKV IT). PROVIDE IN SECOND CONDUIT 25PAIR CAT5E FROM EXISTING

NO SCALE

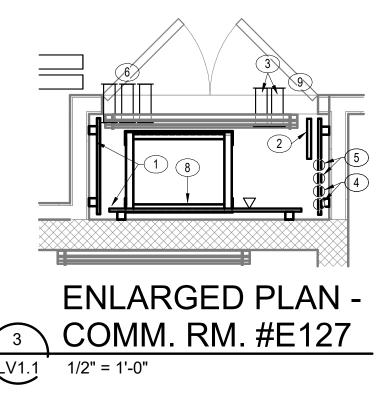
CONSTRUCTION SET			
John Knox Village			
COURTYARDS - BUILDING E SFCS Inc. • 305 South Jefferson Street Roanoke, Virginia 24011.2003			
www.sfcs.com	Fax 540.343.6925		
DESIGNER : DAS	DRAWN : DAH, DKW CHECKED : DAH		
ENGINEER DAH	APPROVED ; JSK		
	VISION DESCRIPTION DATE		
3 Ado	dendum #1 03/07/24		
DRAWING TITLE LOW VOLTAGE DETAILS			

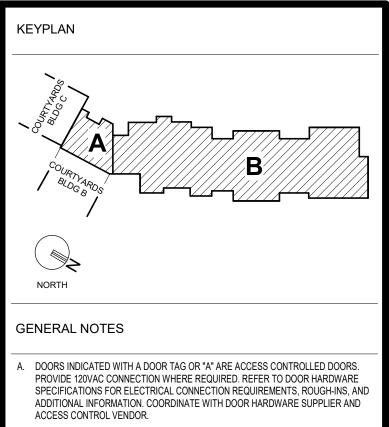
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- CONDUIT TO BE PROVIDED ABOVE GWB OR OTHER INACCESSIBLE AREAS WITH PULL STRING FOR LOW VOLTAGE CONTRACTORS USE FOR CABLE ROUTING ABOVE CEILING.
- ON RESIDENT FLOORS PROVIDE SUPPORTED J-HOOKS FOR CABLE ROUTING OF CABLE IN CORRIDOR CEILING SPACE.
- D. PROVIDE AND INSTALL SLEEVES AT ALL LOCATIONS WHERE CABLE MUST PASS THORUGH WALLS AND PARTITIONS. DO NOT ROUTE CABLE THROUGH WALLS WITHOUT SLEEVES.
- COORDINATE ALL CONDUITS AND SLEEVES FOR LOW VOLTAGE WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.

#### PLAN NOTES

- COMMUNICATIONS BACKBOARD PROVIDE AND INSTALL 8'-0" H x3 /4" FIRE RATED PLYWOOD SECURED ALONG ENTIRE LENGTH OF TWO WALLS, AS INDICATED. INSTALL BOTTOM OF BOARD AT 8" AFF. TERMINAL BOARD FOR USE BY IN HOUSE FACILITIES AND TELECOMM SERVICE PROVIDERS FOR DISTRIBUTION OF THEIR RESPECTIVE HARDWARE AND CABLE DISTRIBUTION. 2 TGB GROUND BAR AT 24" AFF.
- TWO (2) 2"C. ROUTED THROUGH CEILING SPACE FOR OWNER BACKBONE CABLING AND SPARE.
- 4 TWO (2) 3"C. SLEEVES ROUTED THROUGH FLOOR/CEILING SPACE FOR SERVICE PROVIDER USE FOR CABLE ROUTING. 5 TWO (2) 3"C. STUBBED UP 6" THROUGH FLOOR SLAB FOR
- SERVICE PROVIDER CABLES.
- 6 PROVIDE THREE (3) 3" SLEEVES THROUGH WALL ABOVE CORRIDOR ACCESSIBLE CEILING.
- 7 EXTEND TWO (2) 1-1/4" INNERDUCT, WITH PULL STRING, FROM CORRIDOR ACCESSIBLE CEILING SPACE TO THE RESIDENT UNIT MEDIA CENTER TYPICAL FOR ALL RESIDENT UNITS. PROVIDE WALL RACK FOR OWNER IT NETWORK EQUIPMENT. TELECOM ROOM DESIGNATED FOR OWNERS NETWORK
- HARDWARE EQUIPMENT. CONTRACTOR TO PROVIDE WALL RACK FOR OWNERS USE. CONTRACTOR TO PROVIDE FIBER CABLE FROM EXISTING MDF TO THIS ROOM. TERMINATION OF FIBER BY OTHERS.

