

BULLETIN # 0 1



DATE: December 17, 2024

TO: Piazza Inc.
Attn: Phil Pignatelli

TVH Building Dept.
Attn: Rocco Germani

CC: Jordan Medina, Hill Intl.,

FROM: Brian Dunn, AIA
KG+D Architects, PC

PROJECT: Harrison Recreation & Community Center – PHASE 2
Harrison, NY

RE: Phase 2 Permit Review Revisions

Message:

Please see the attached revised drawings and documents in support of the Phase 2 Permit Application. The revised drawings reflect the responses to the permit review comments and to the SOG elevations at the Parking Level. Please see the COMcheck compliance certificates and the OLA letter addressing compliance with the Mechanical Code.

Cc: TVH Engineering Department
File

Encl: COMcheck Certificates
Sheets: S100, A201, A301, A302, A303, A304, A701, A702, A703, A801, A804,
FFE 01, P001, M601, M602, ASK 01
OLA Permit Comments

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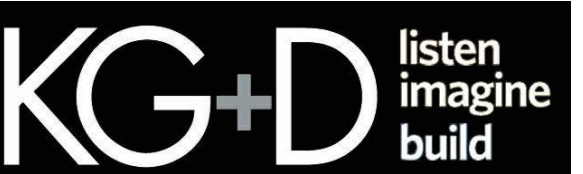
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914.666.5900 kgdarchitects.com

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

Town / Village of Harrison

270 Harrison Avenue
Harrison, NY 10528



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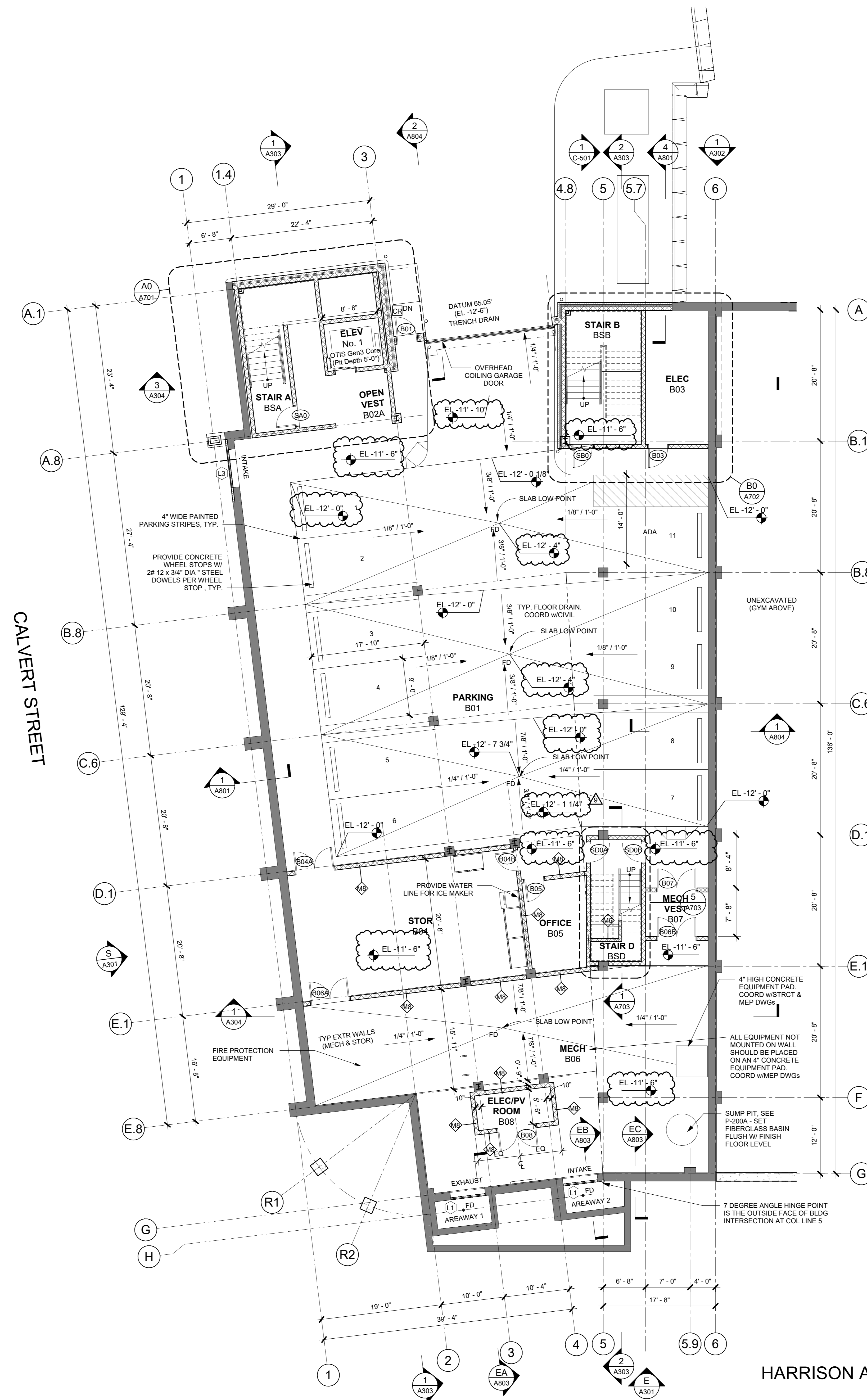
CONSTRUCTION DOCUMENTS

PLAN GENERAL NOTES

1. DIMENSIONS SHOWN ARE TO FACE OF GYPSUM OR FACE OF CMU. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
2. PROVIDE SUPPLEMENTAL BLOCKING AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: GRAB BARS, SHELVING, CABINETS, SIGNAGE, TOILET ROOM ACCESSORIES, AV EQUIPMENT, DISPLAY BOARDS, ETC. THE CONFIGURATION OF THE BLOCKING MUST MATCH THE SPECIFIC ITEM PROVIDED.
3. FACE OF ADJACENT WALL TO INSIDE EDGE OF DOOR FRAME IS 6" (TYPICAL) U.N.O.
4. SEE FINISH SCHEDULE FOR MATERIALS & FINISHES.
5. ABOVE ALL INTERIOR OPENINGS, PROVIDE ADJACENT PARTITION TYPE U.N.O.
6. SEE ELEVATIONS FOR ADDITIONAL WINDOWS THAT MAY NOT BE SHOWN IN FLOOR PLANS.

FLOOR PLAN LEGEND

- NEW PARTITION AS INDICATED
- NEW GLAZED OPENING WITH ALUM OR HM FRAME AS INDICATED
- FEC - FIRE EXTINGUISHER CABINET
- NEW DOOR, DOOR NUMBER
- WALL TYPE
- FRAME TYPE



1 LOWER LEVEL & PARKING PLAN
1/8" = 1'-0"

HARRISON AVENUE

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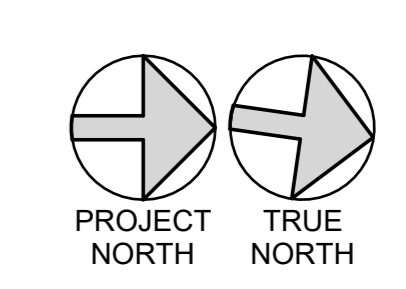
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No.	Date	Issue
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

LOWER LEVEL PARKING PLAN

Job No.	2020-1005	Date	03/31/2020
Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	A201		

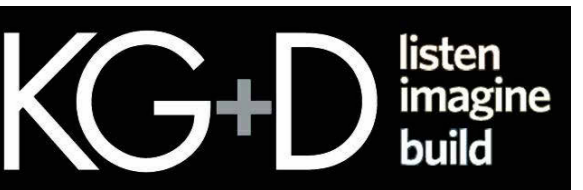


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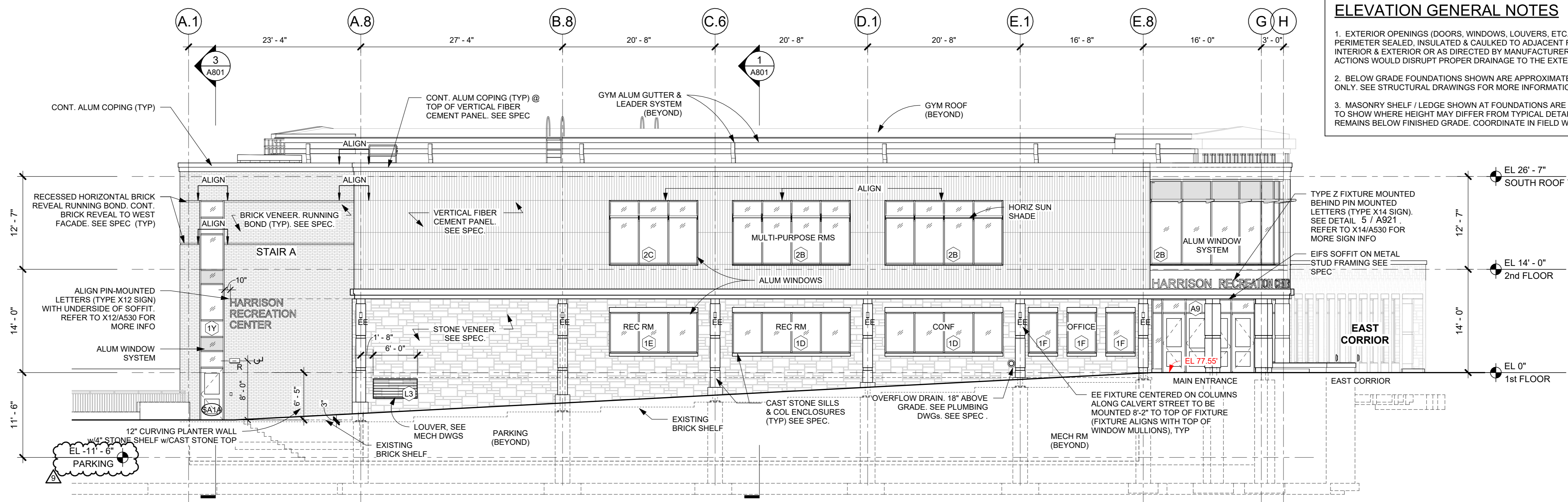


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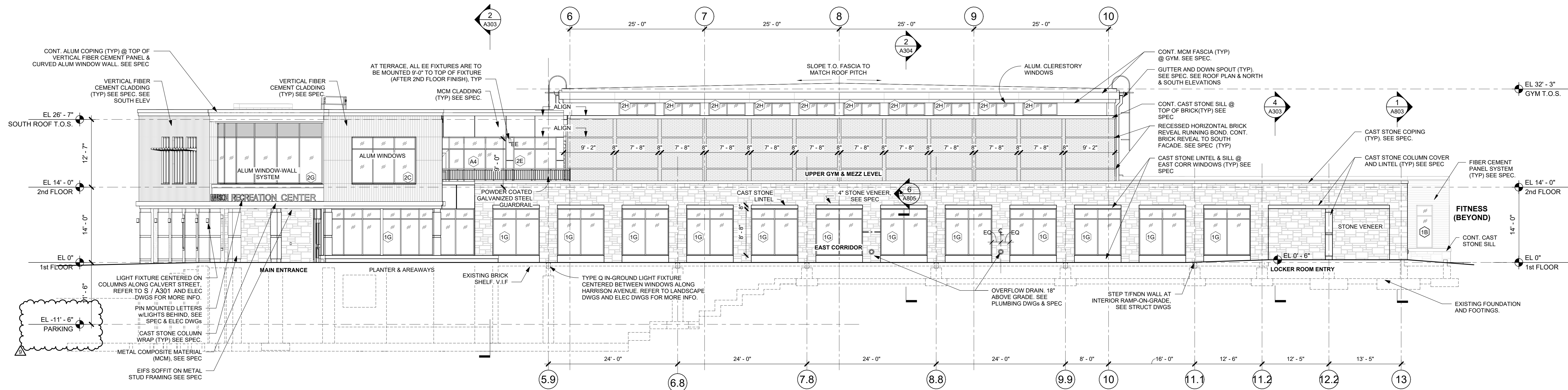
CONSTRUCTION DOCUMENTS

ELEVATION GENERAL NOTES

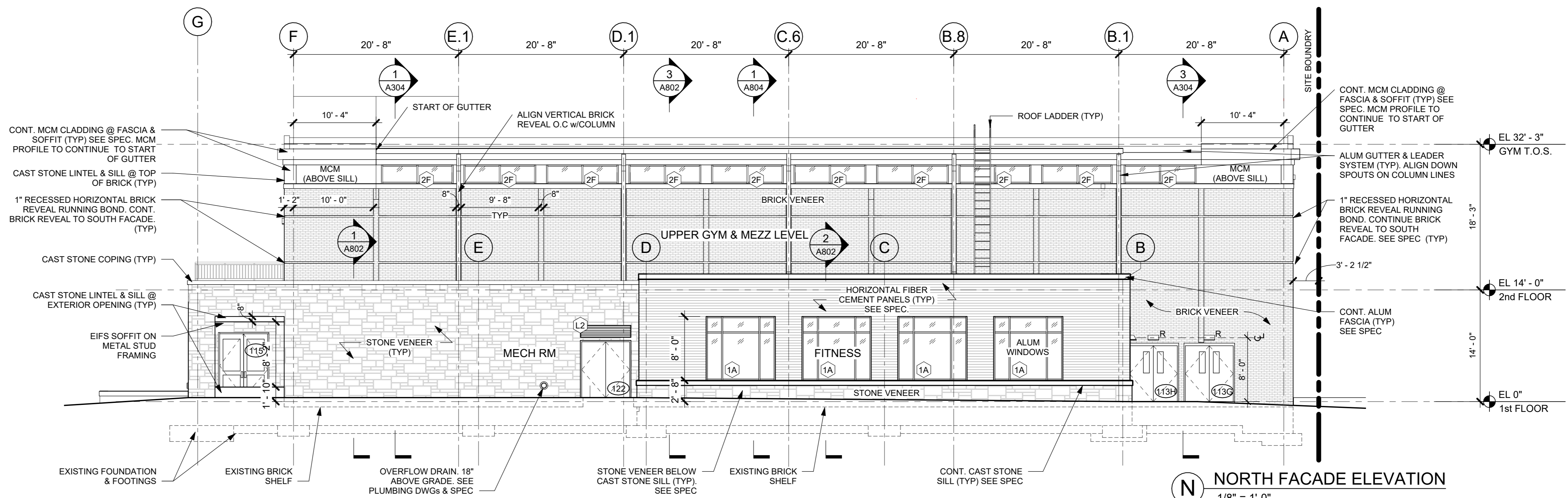
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2. BELOW GRADE FOUNDATIONS SHOWN ARE APPROXIMATE & FOR REFERENCE ONLY. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.
3. MASONRY SHELF / LEDGE SHOWN AT FOUNDATIONS ARE APPROXIMATE. INTENT IS TO SHOW WHERE HEIGHT MAY DIFFER FROM TYPICAL DETAILS SUCH THAT MASONRY REMAINS BELOW FINISHED GRADE. COORDINATE IN FIELD WITH FINAL GRADING.



S SOUTH FACADE ELEVATION
1/8" = 1'-0"



E EAST FACADE ELEVATION
1/8" = 1'-0"



N NORTH FACADE ELEVATION
1/8" = 1'-0"

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Sheet Title

EXTERIOR ELEVATIONS

Job No. 2020-1005 Date 03/31/2020

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Sheet Number

A301

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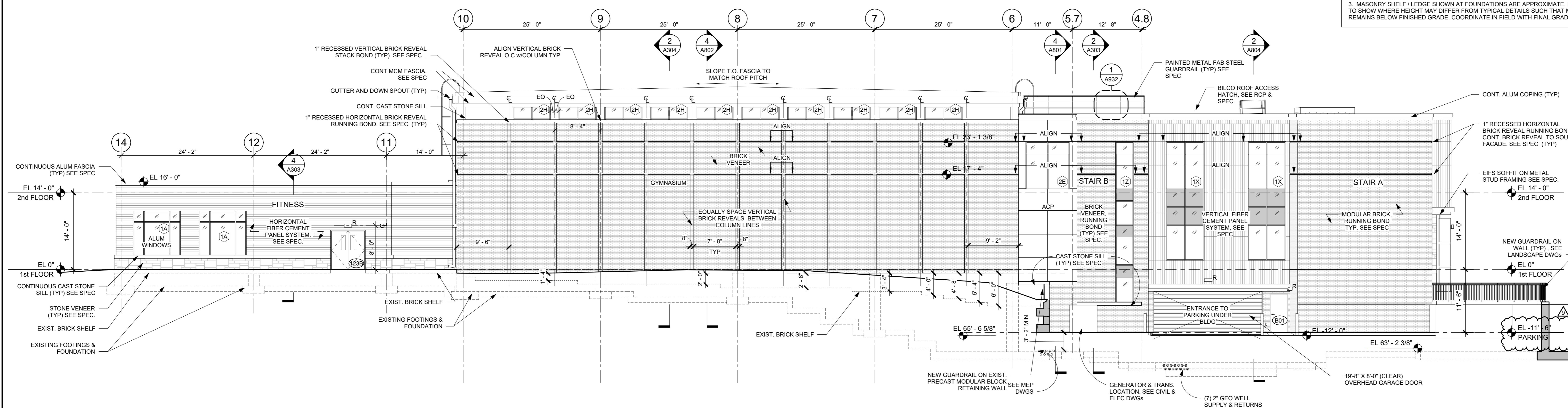
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**EXTERIOR
ELEVATIONS**

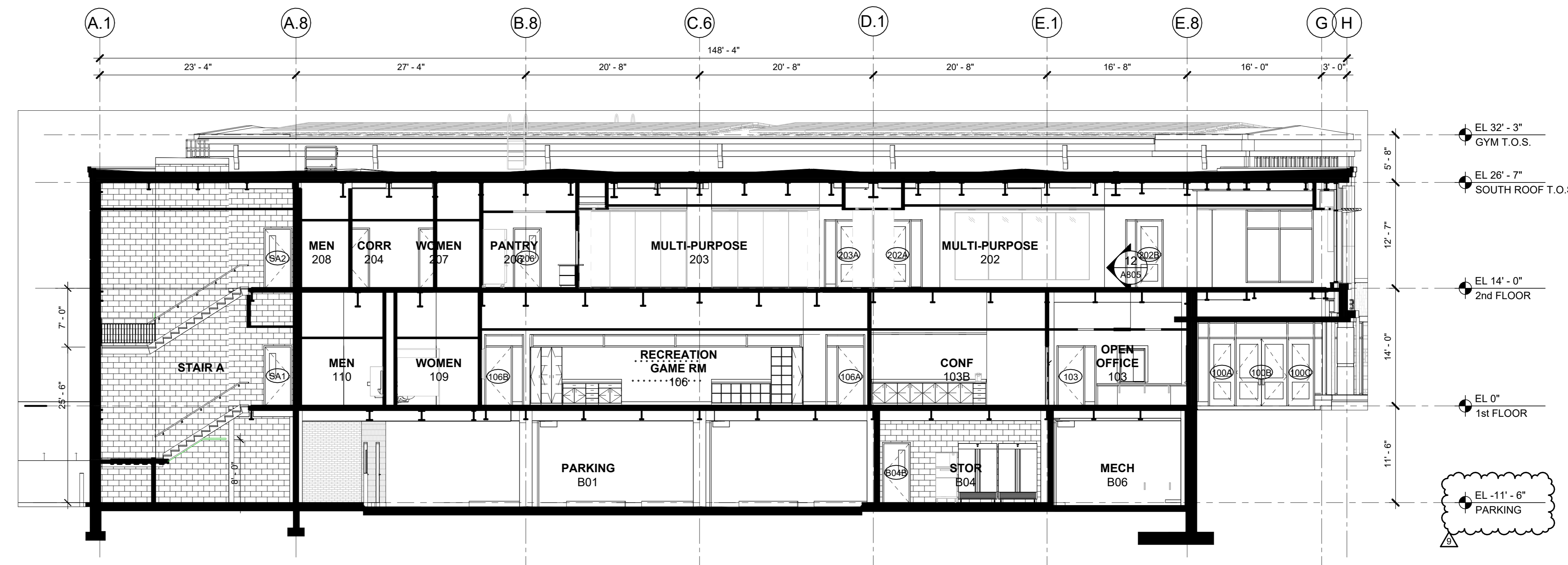
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Scale	AS NOTED	Drawn / Checked	- / -
Sheet Number	A302		

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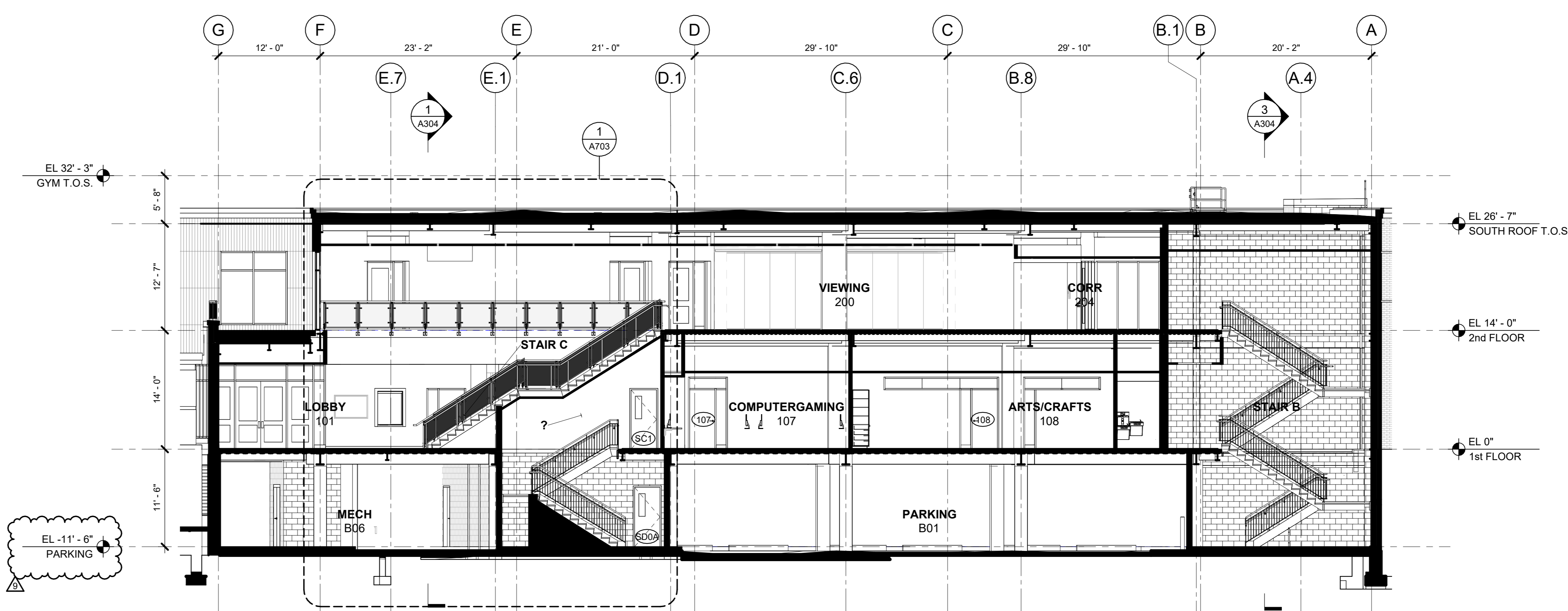
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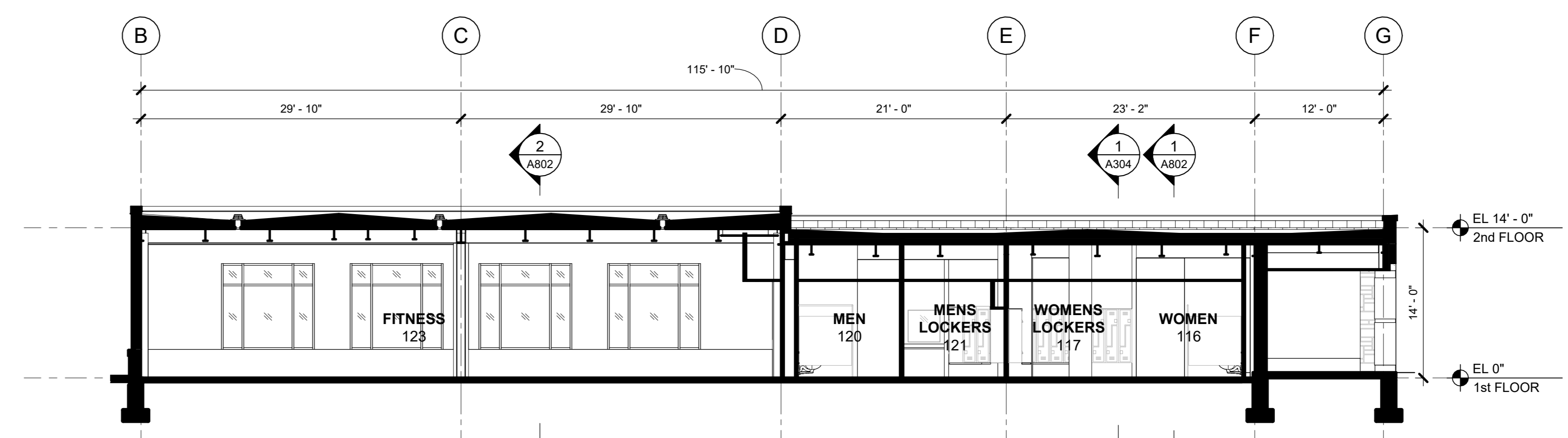
CONSTRUCTION DOCUMENTS



1 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"



2 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"



4 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"

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**BUILDING
SECTIONS**

Job No.	2020-1005	Date	03/31/2020
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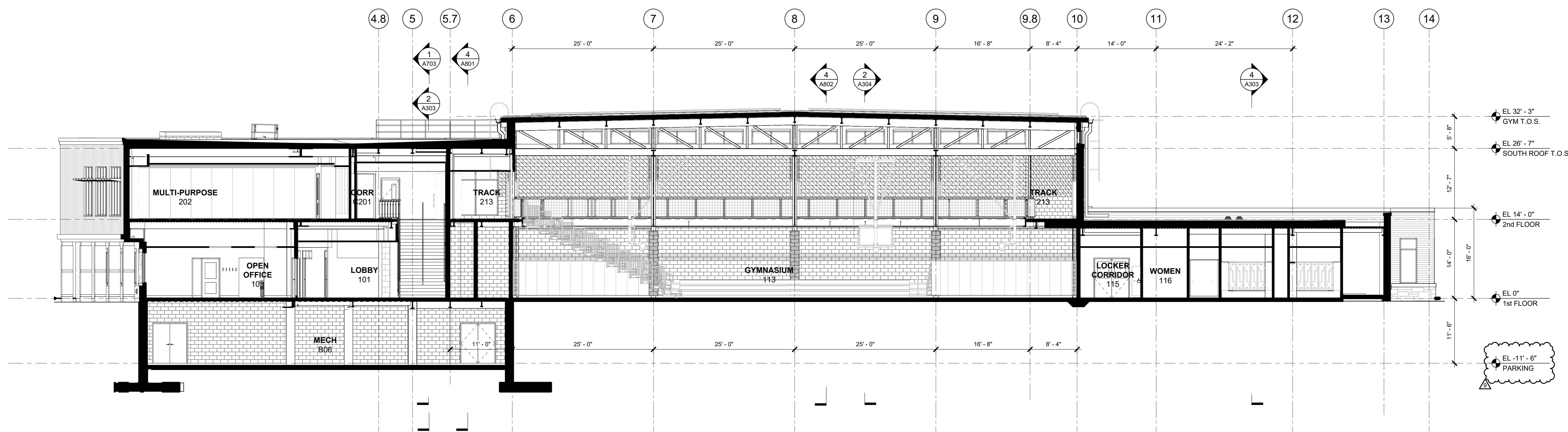
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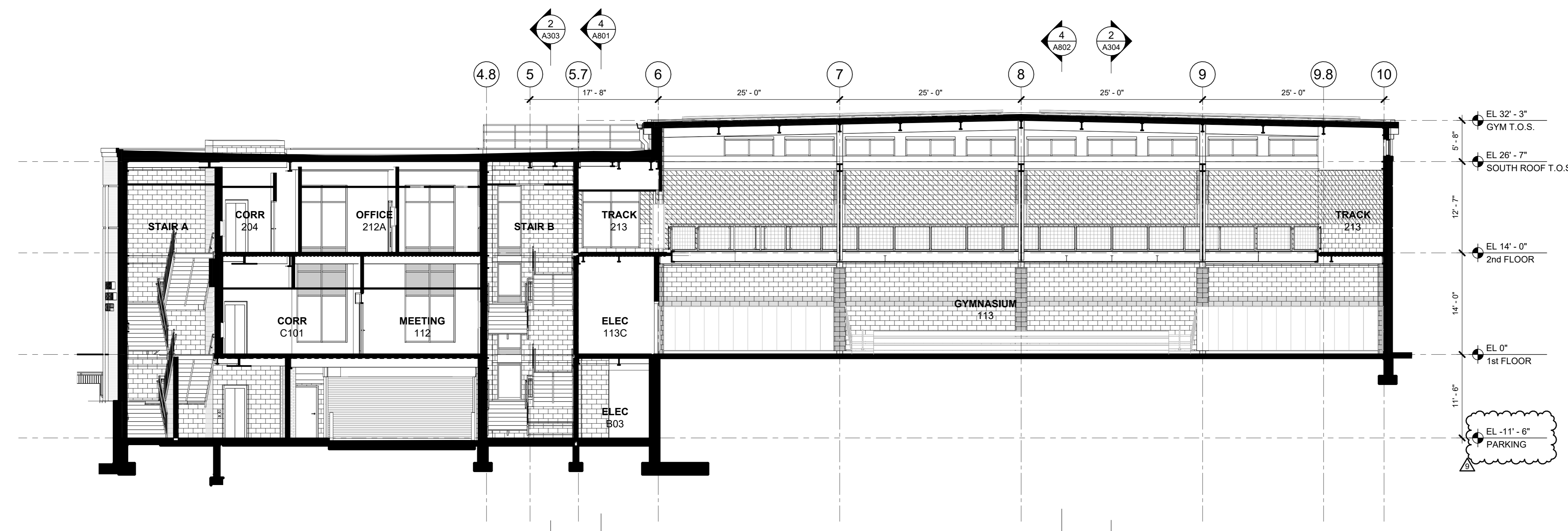
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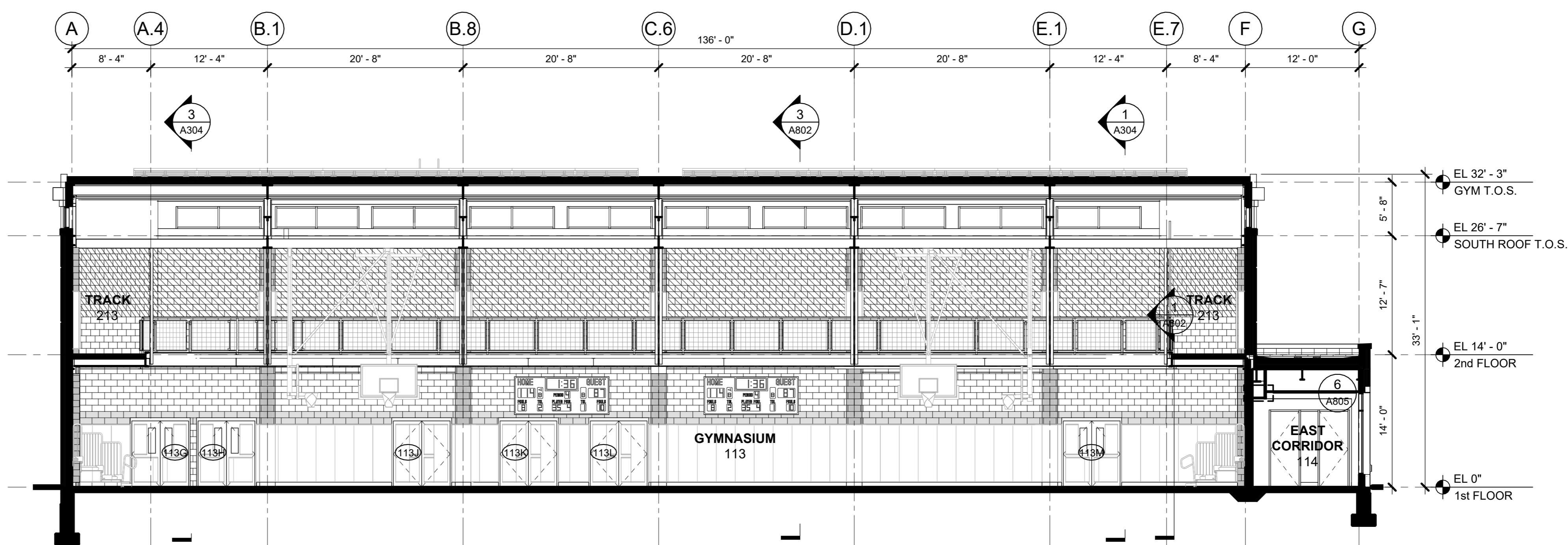
CONSTRUCTION DOCUMENTS



1 BUILDING SECTION N-S LOOKING WEST
1/8" = 1'-0"



3 BUILDING SECTION N-S LOOKING WEST
1/8" = 1'-0"



2 BUILDING SECTION E-W LOOKING NORTH
1/8" = 1'-0"

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Sheet Title

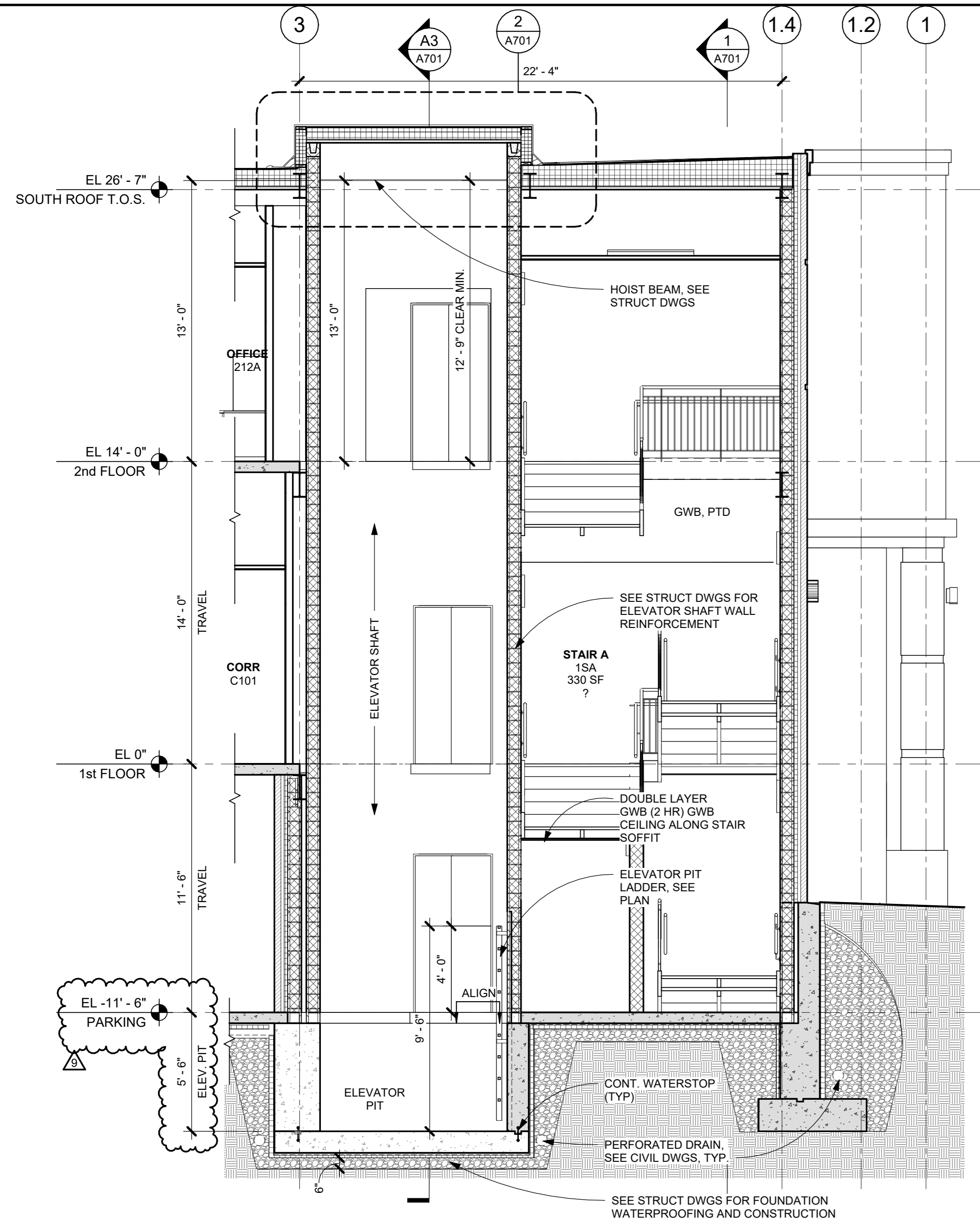
BUILDING SECTIONS

Job No. 2020-1005 Date 06/01/2020

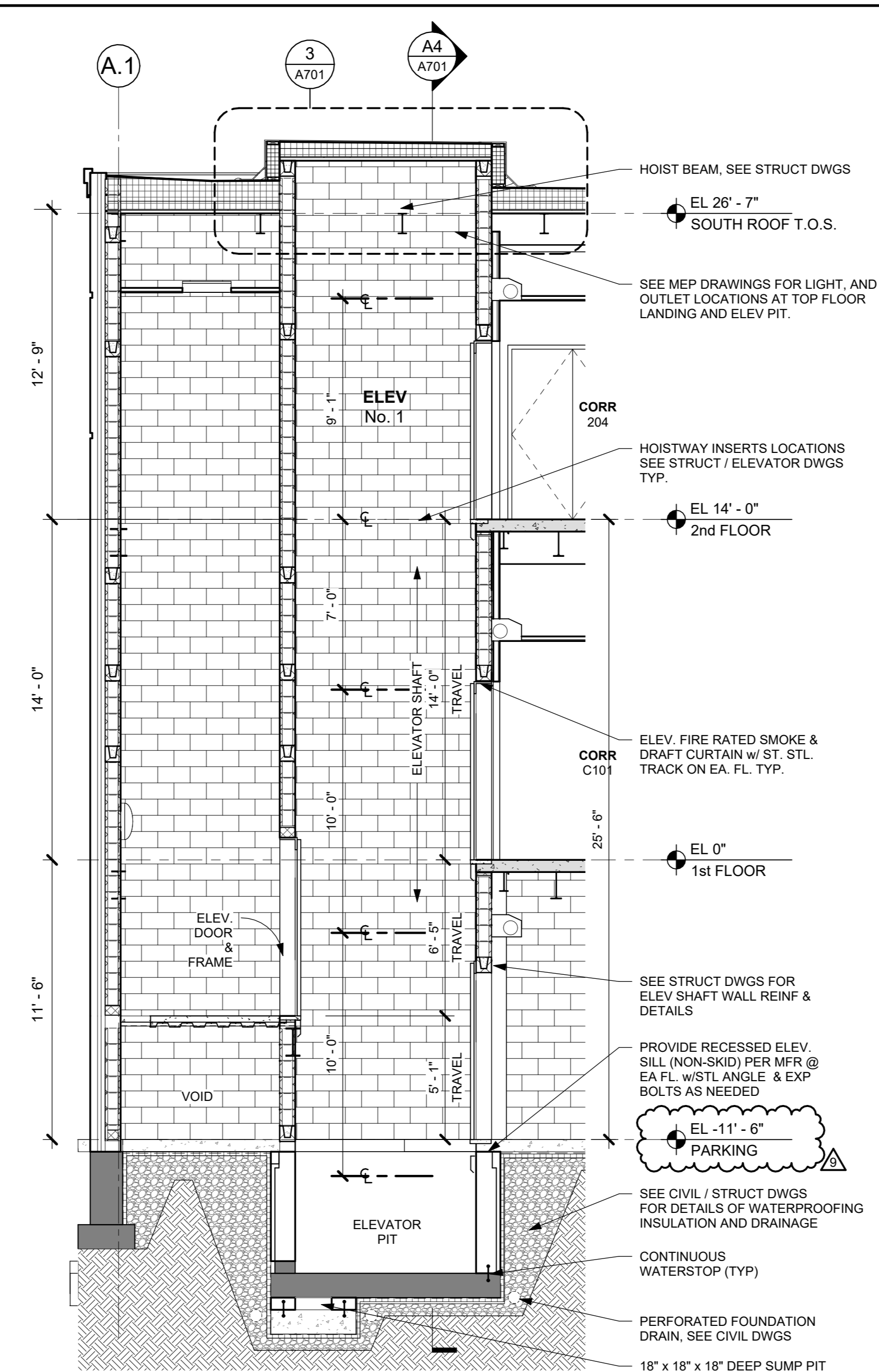
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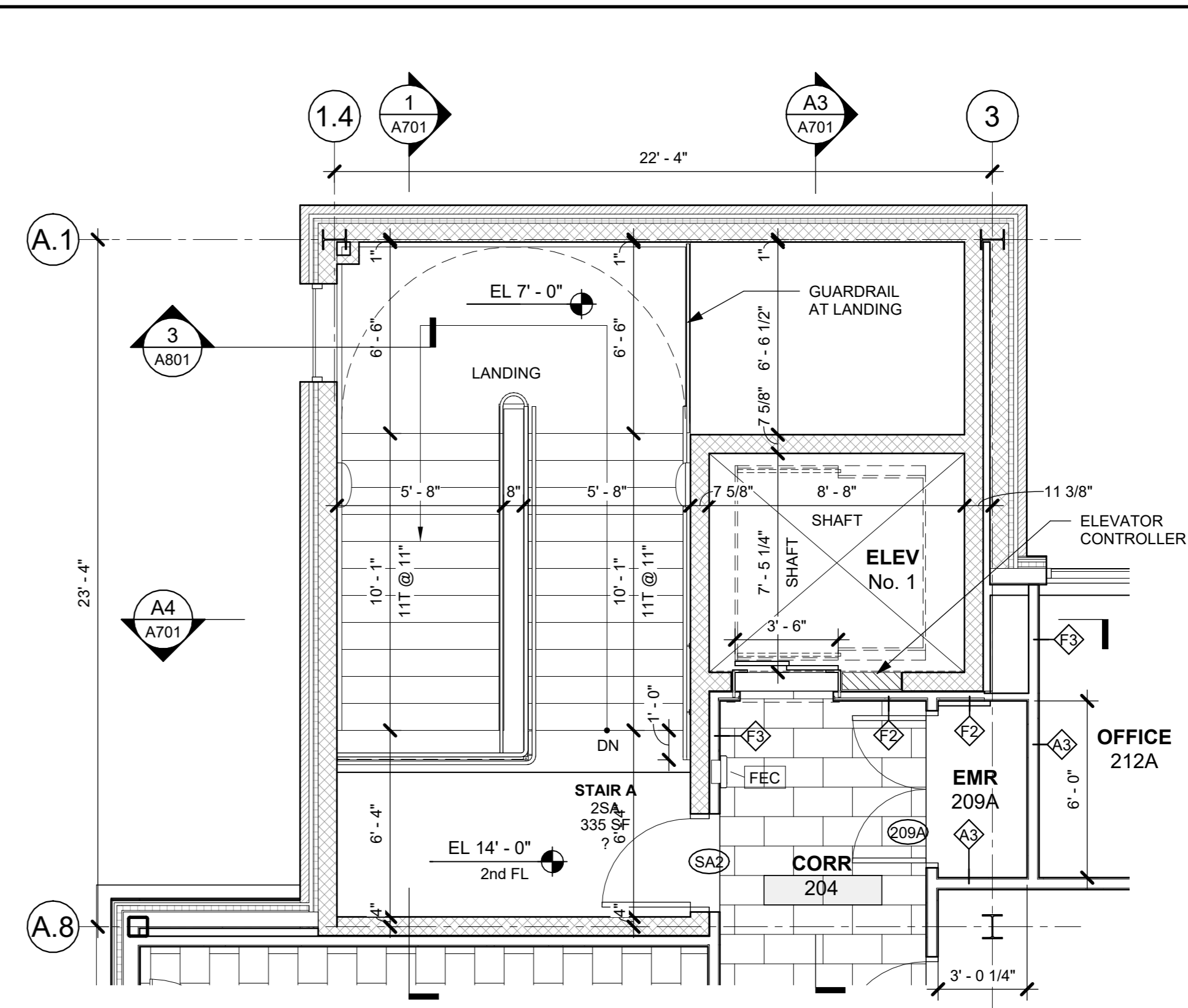
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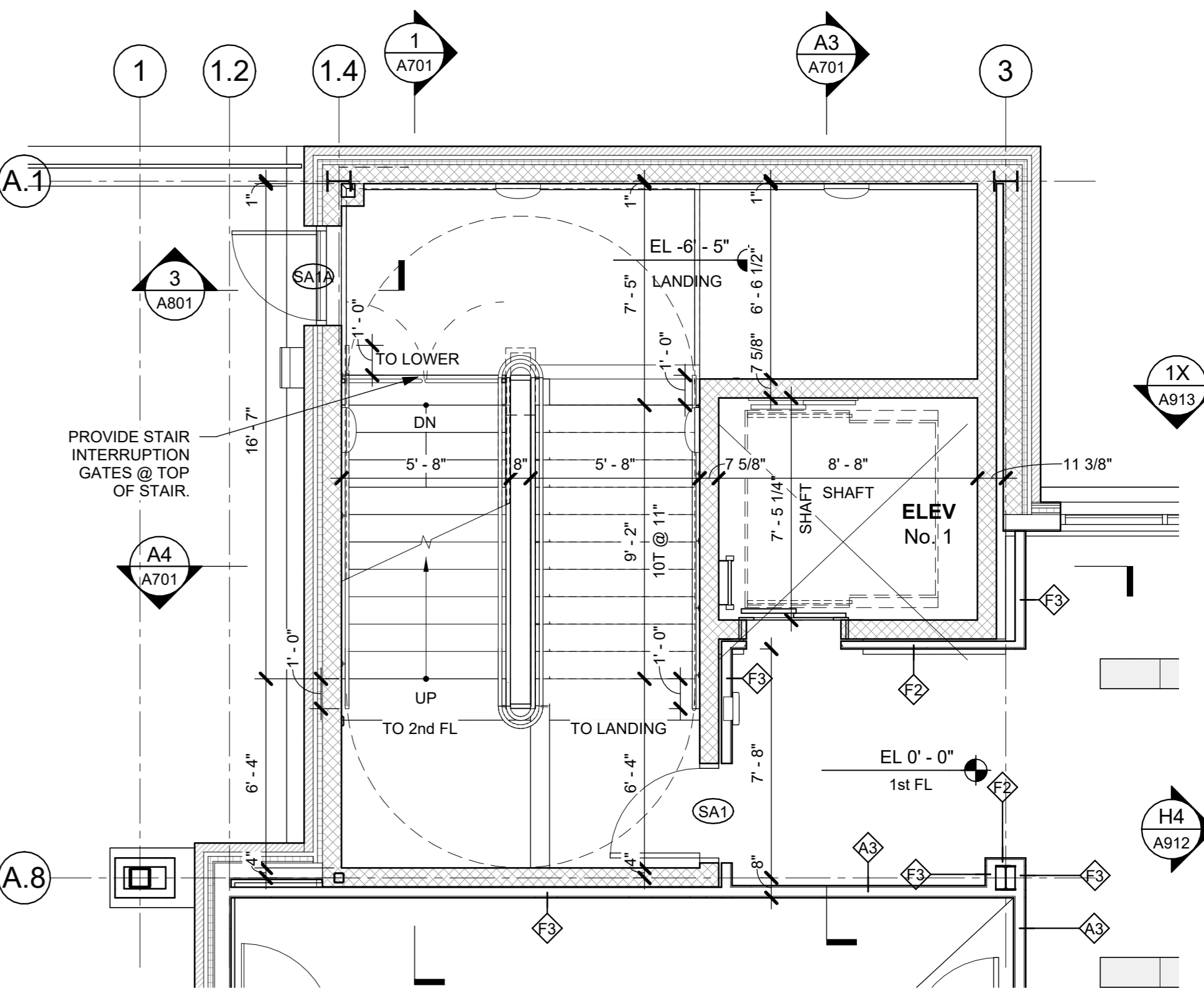
A4 SECTION A4 AT STAIR A & ELEV
1/4" = 1'-0"



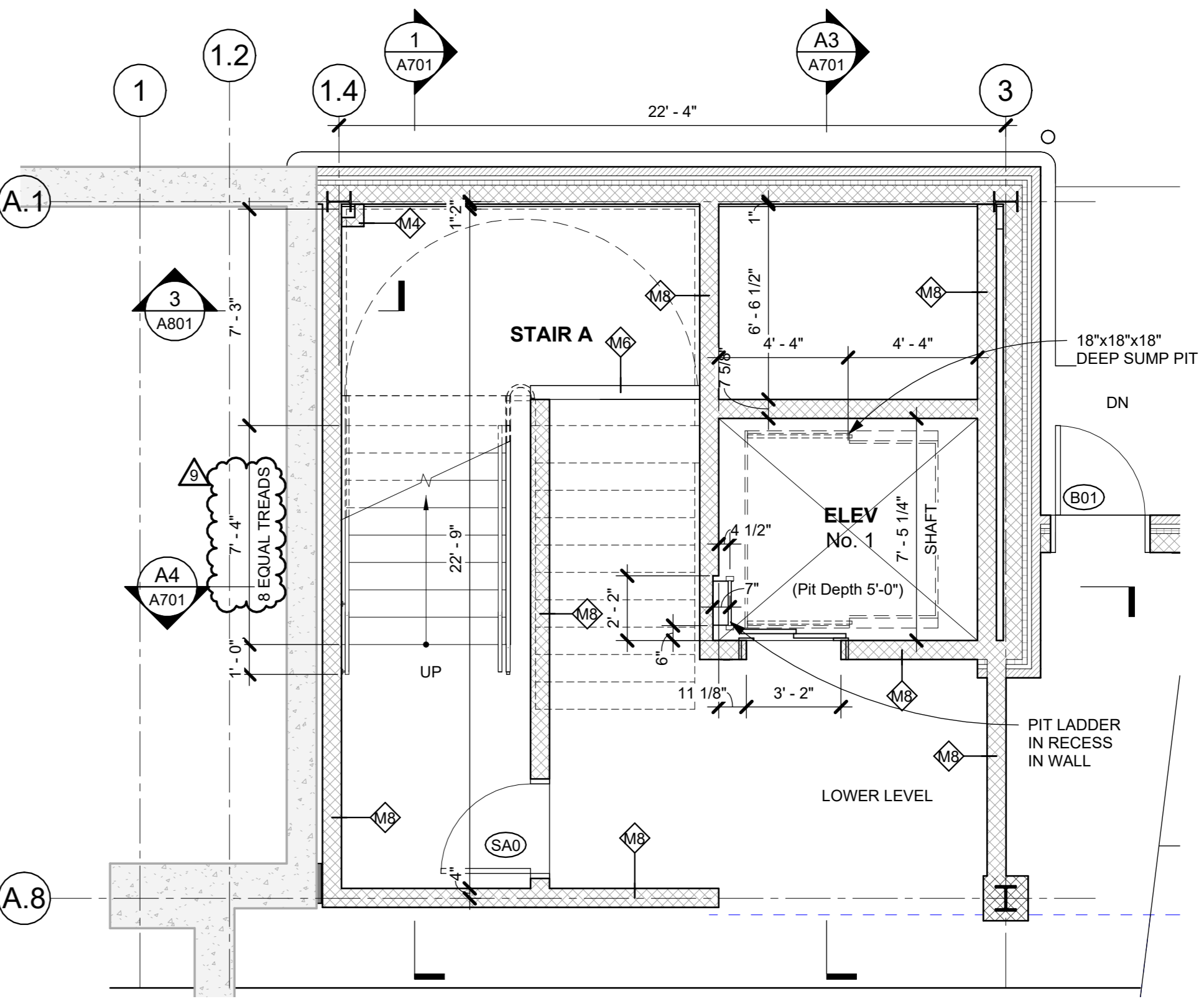
A3 SECTION A3 AT ELEV
1/4" = 1'-0"



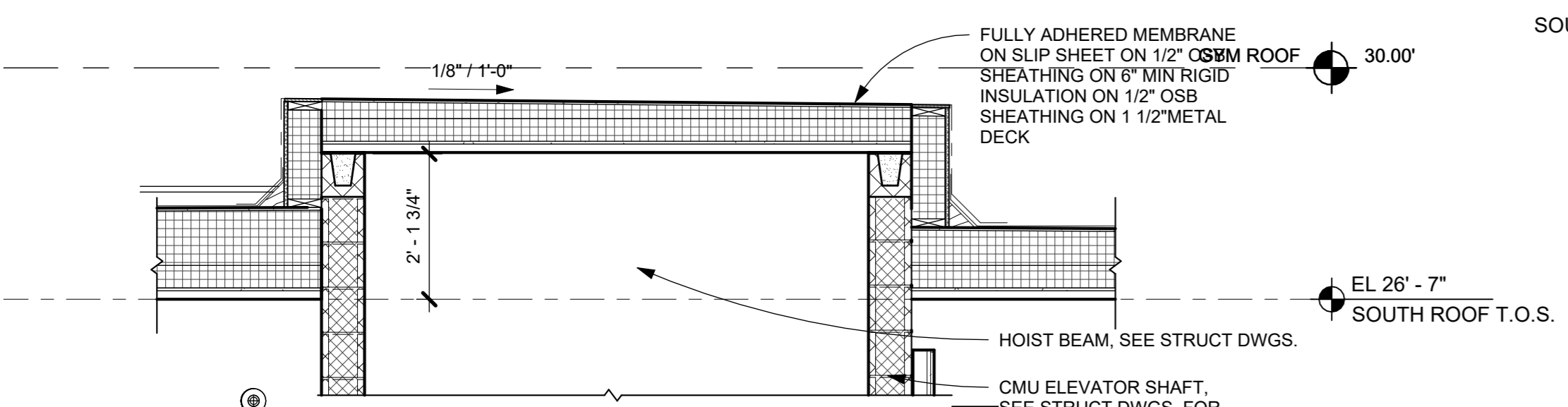
A2 STAIR A - 2nd FL PLAN
1/4" = 1'-0"



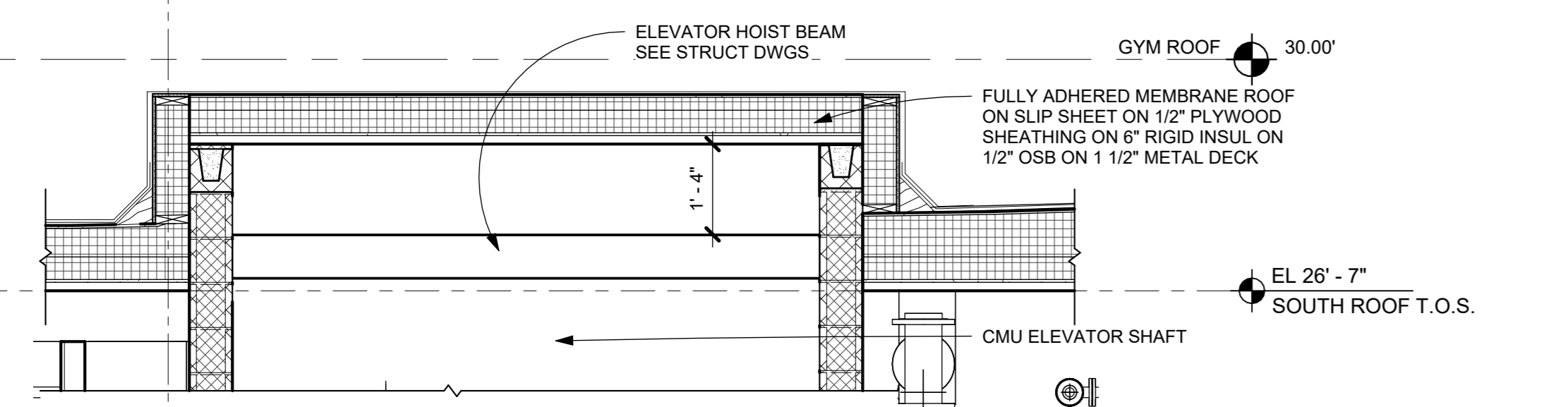
A1 STAIR A - 1st FL PLAN
1/4" = 1'-0"



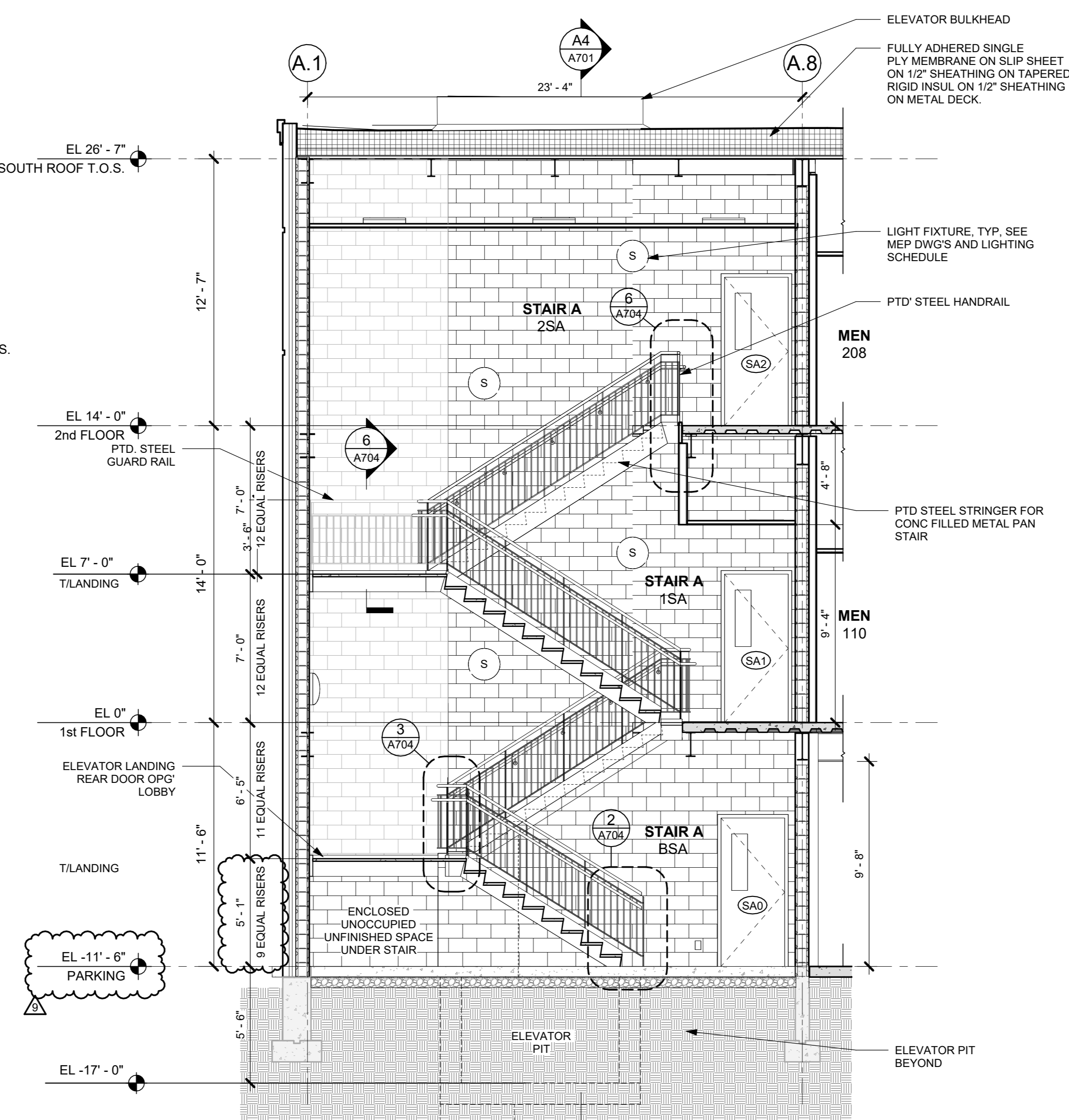
A0 STAIR A - LOWER LEVEL PLAN
1/4" = 1'-0"



3 ELEVATOR BULKHEAD - 1
1/2" = 1'-0"



2 ELEVATOR BULKHEAD - 2
1/2" = 1'-0"



1 SECTION AT STAIR A
1/4" = 1'-0"

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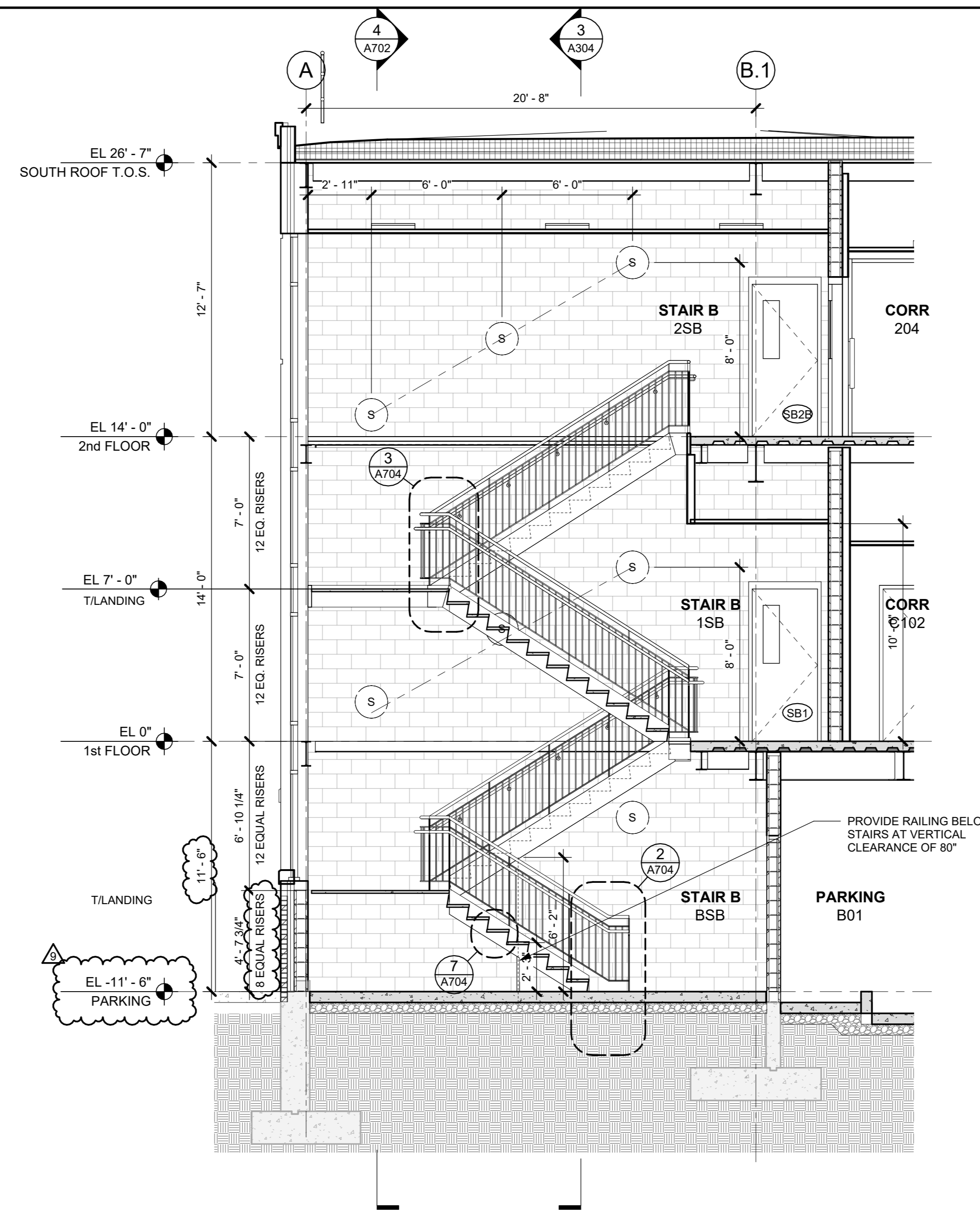
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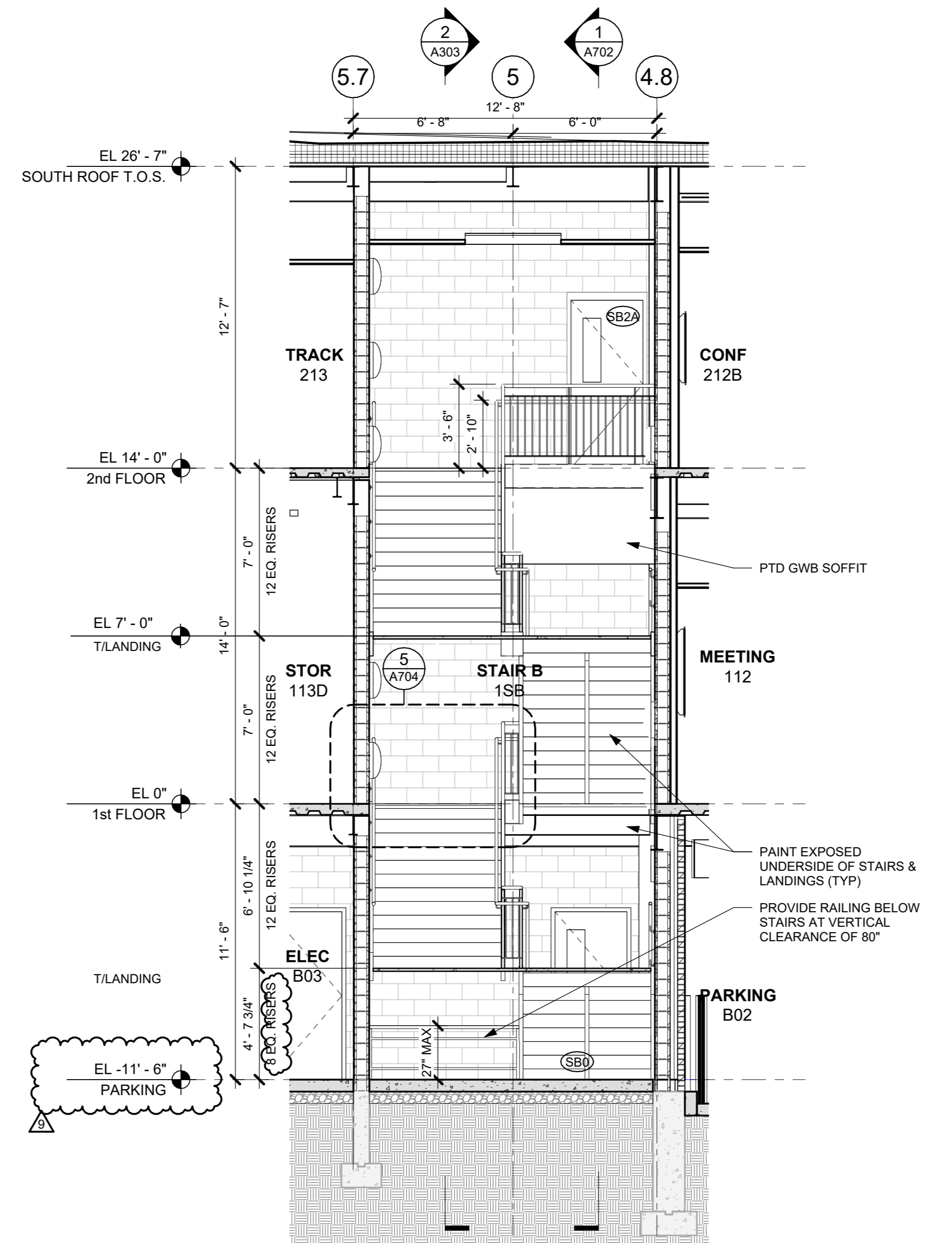
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ELEV & STAIR PLANS & SECTIONS

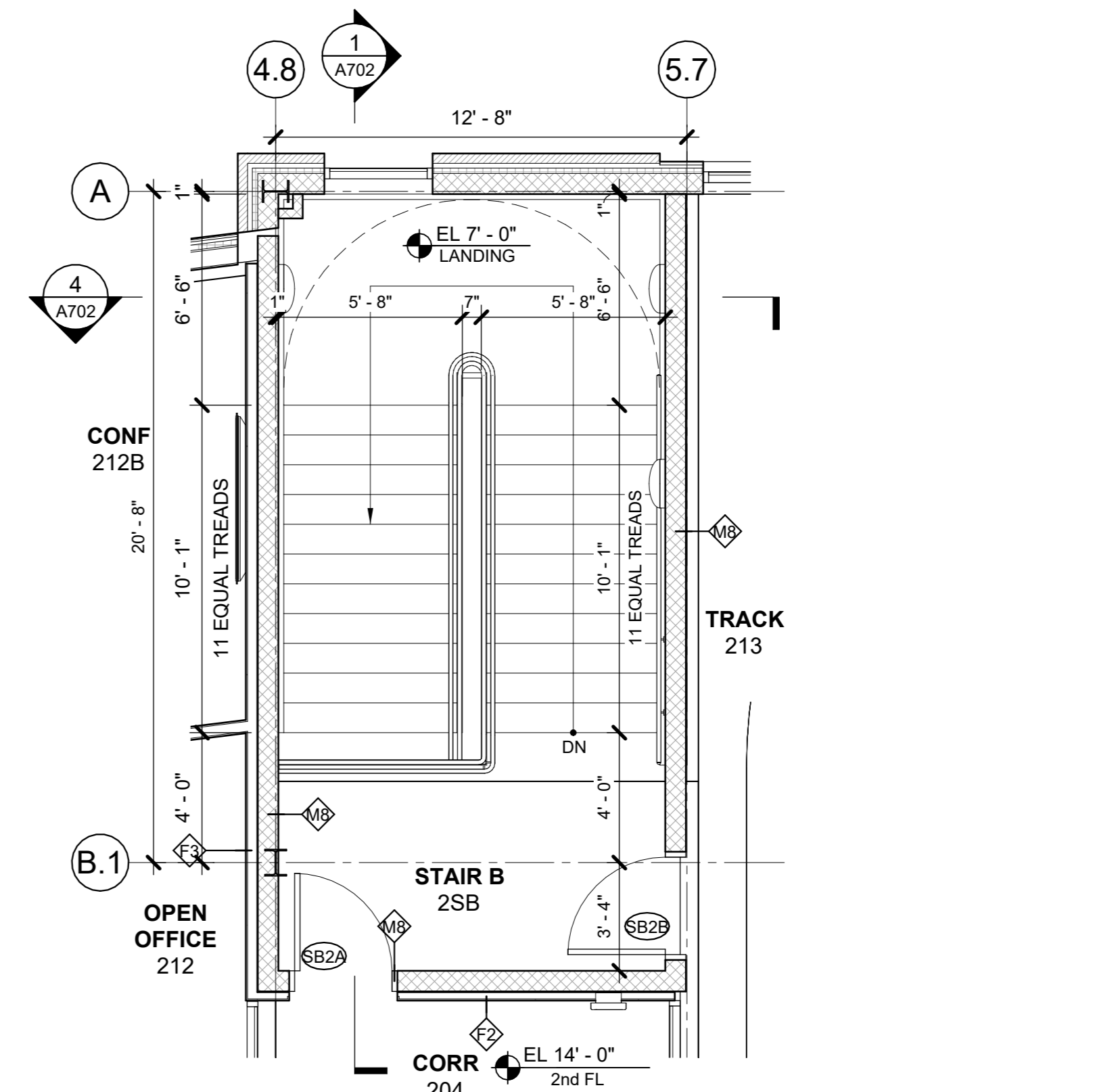
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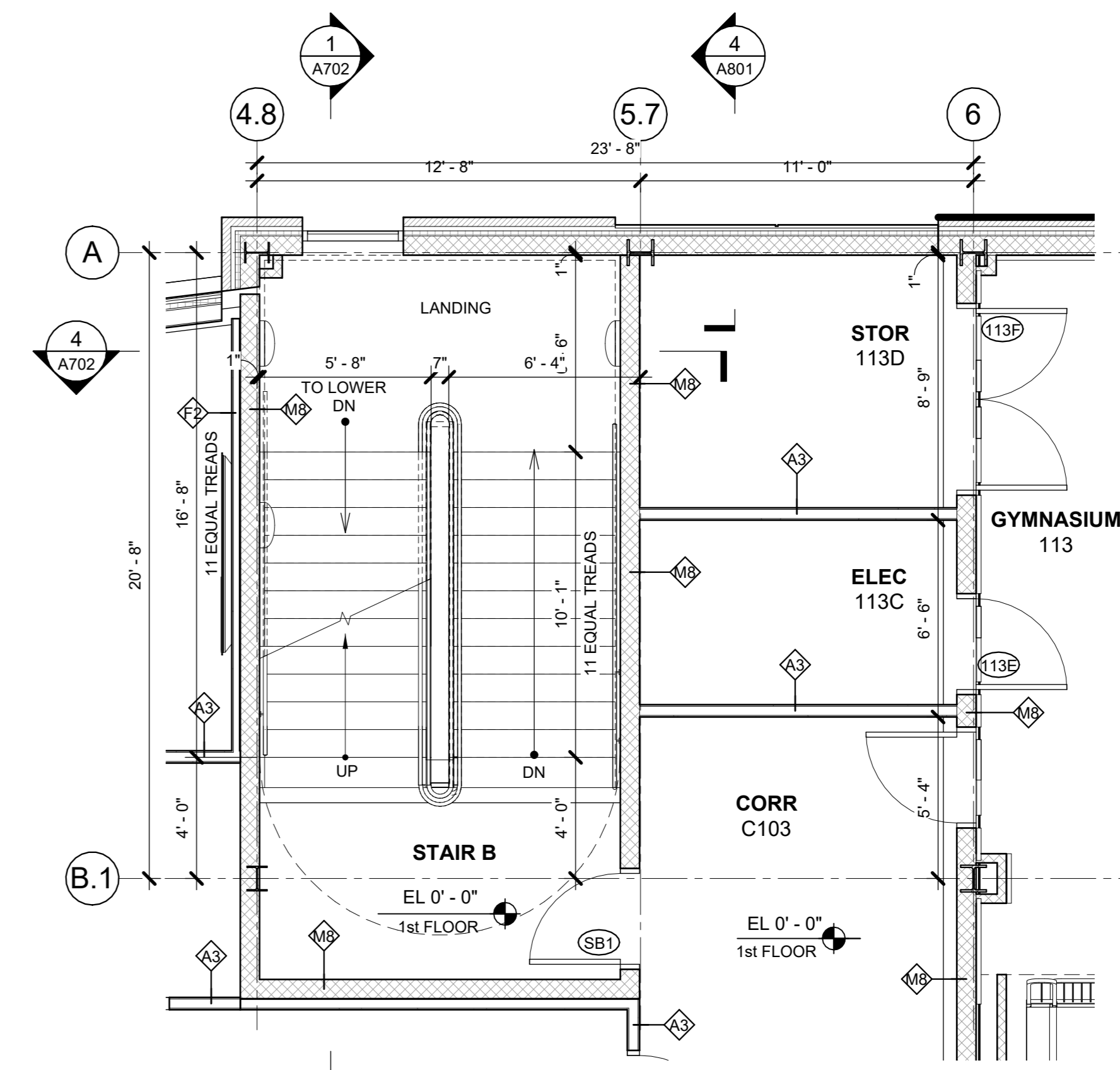
1 SECTION EW AT STAIR B
1/4" = 1'-0"



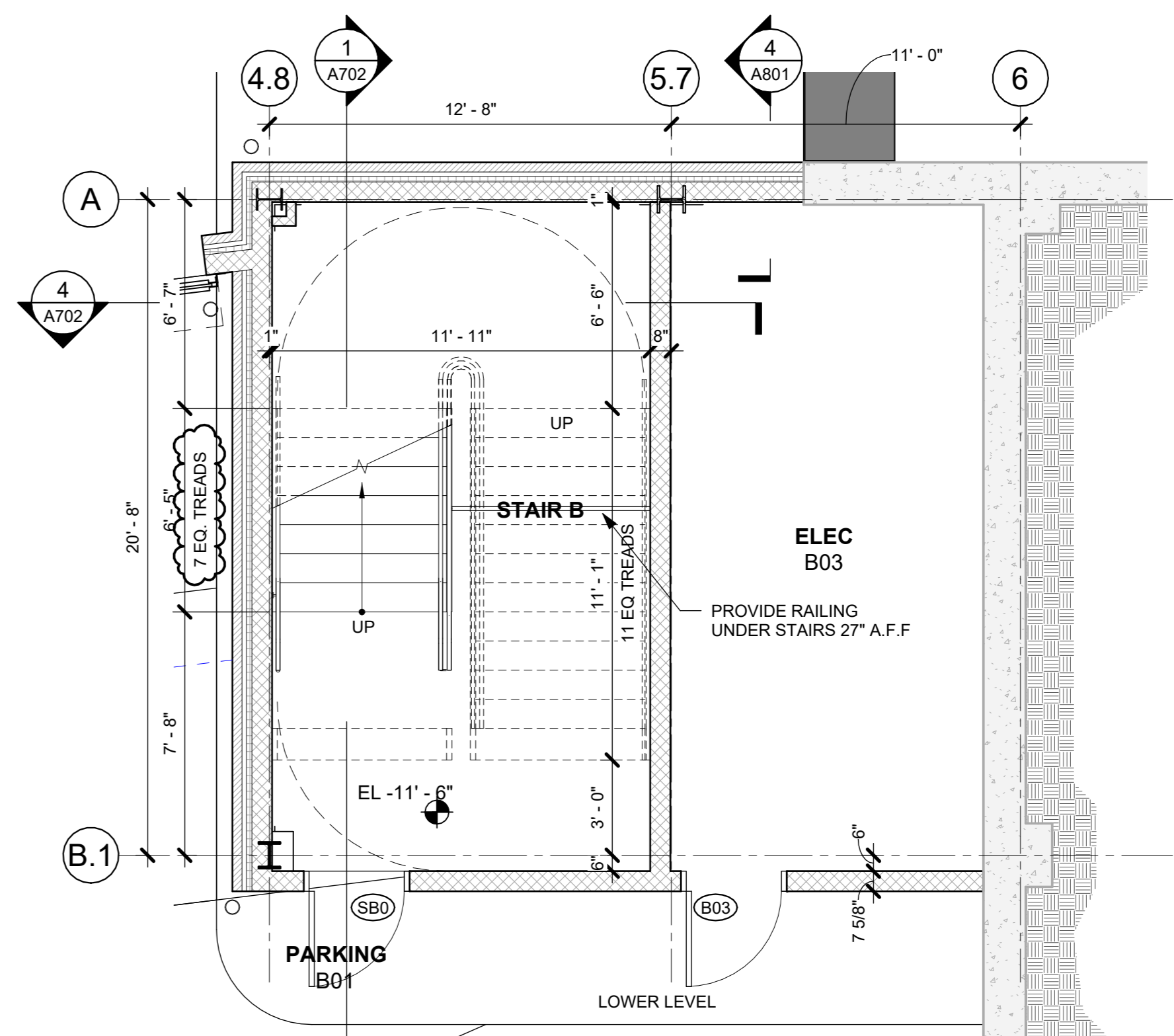
4 SECTION NS AT STAIR B
1/4" = 1'-0"



B2 STAIR B - 2nd FL PLAN
1/4" = 1'-0"



B1 STAIR B - 1st FL PLAN
1/4" = 1'-0"



B0 STAIR B - LOWER LEVEL PLAN
1/4" = 1'-0"

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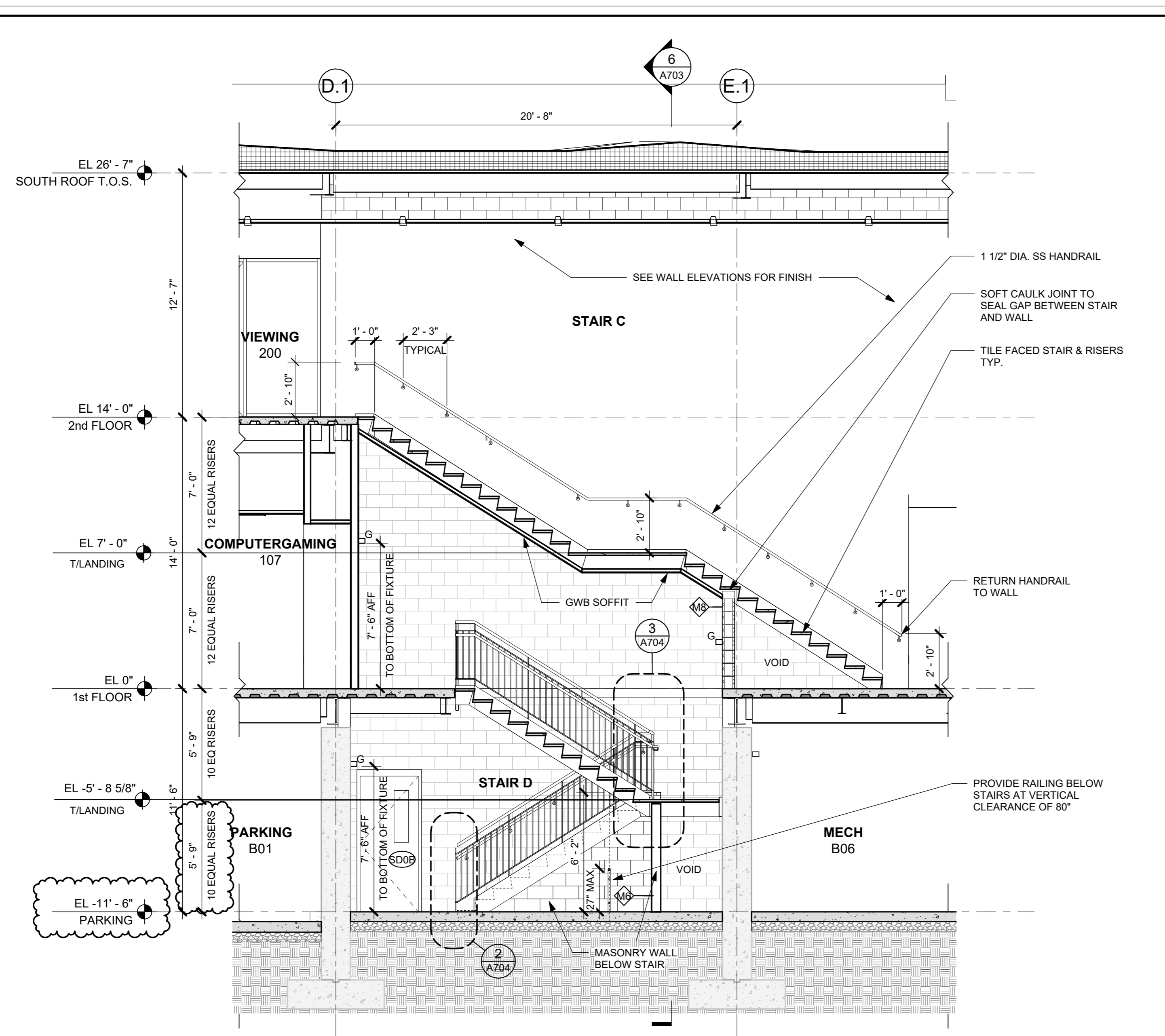
**STAIR PLANS &
SECTIONS**

Job No. 2020-1005 Date 06/01/2020

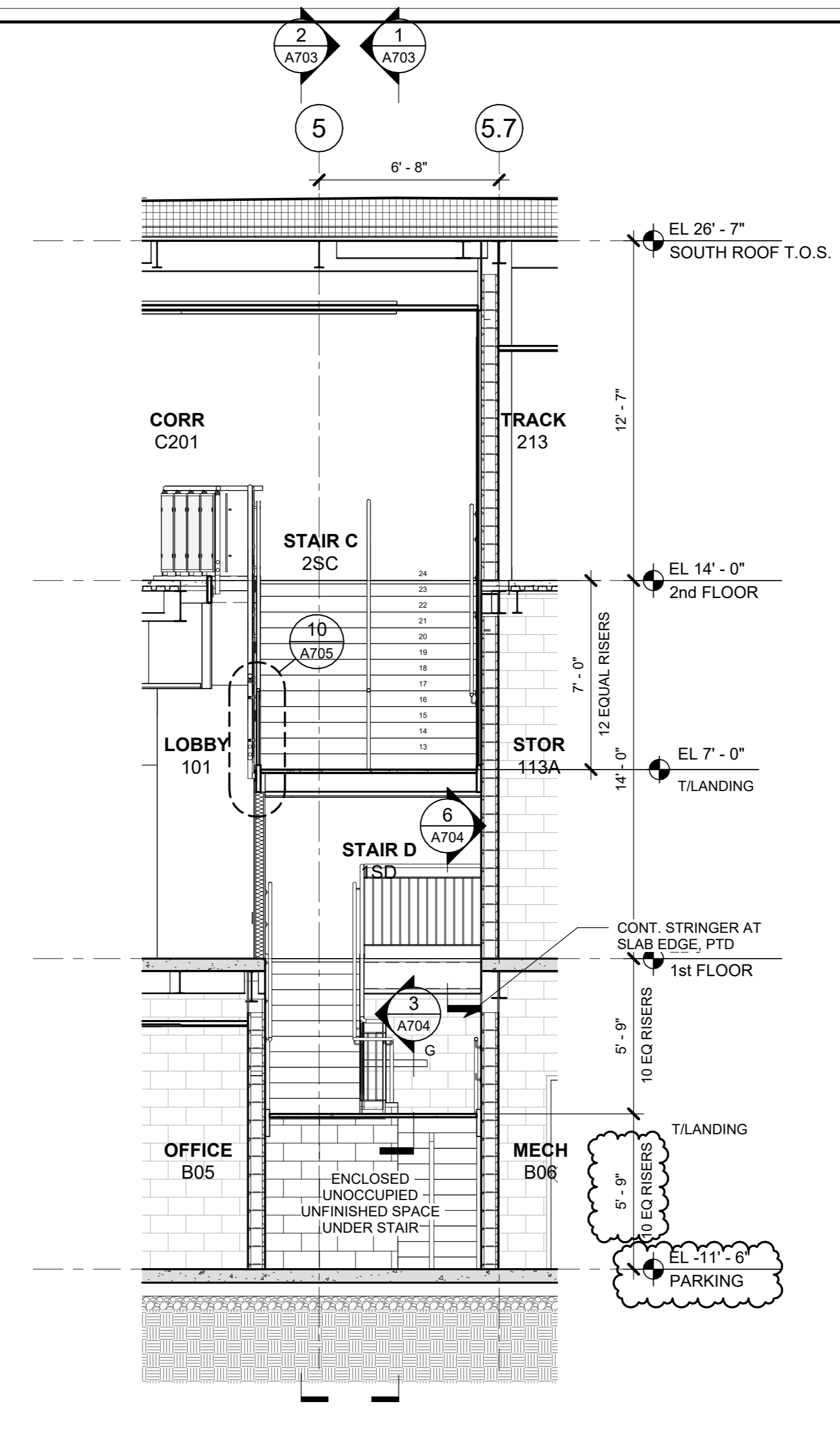
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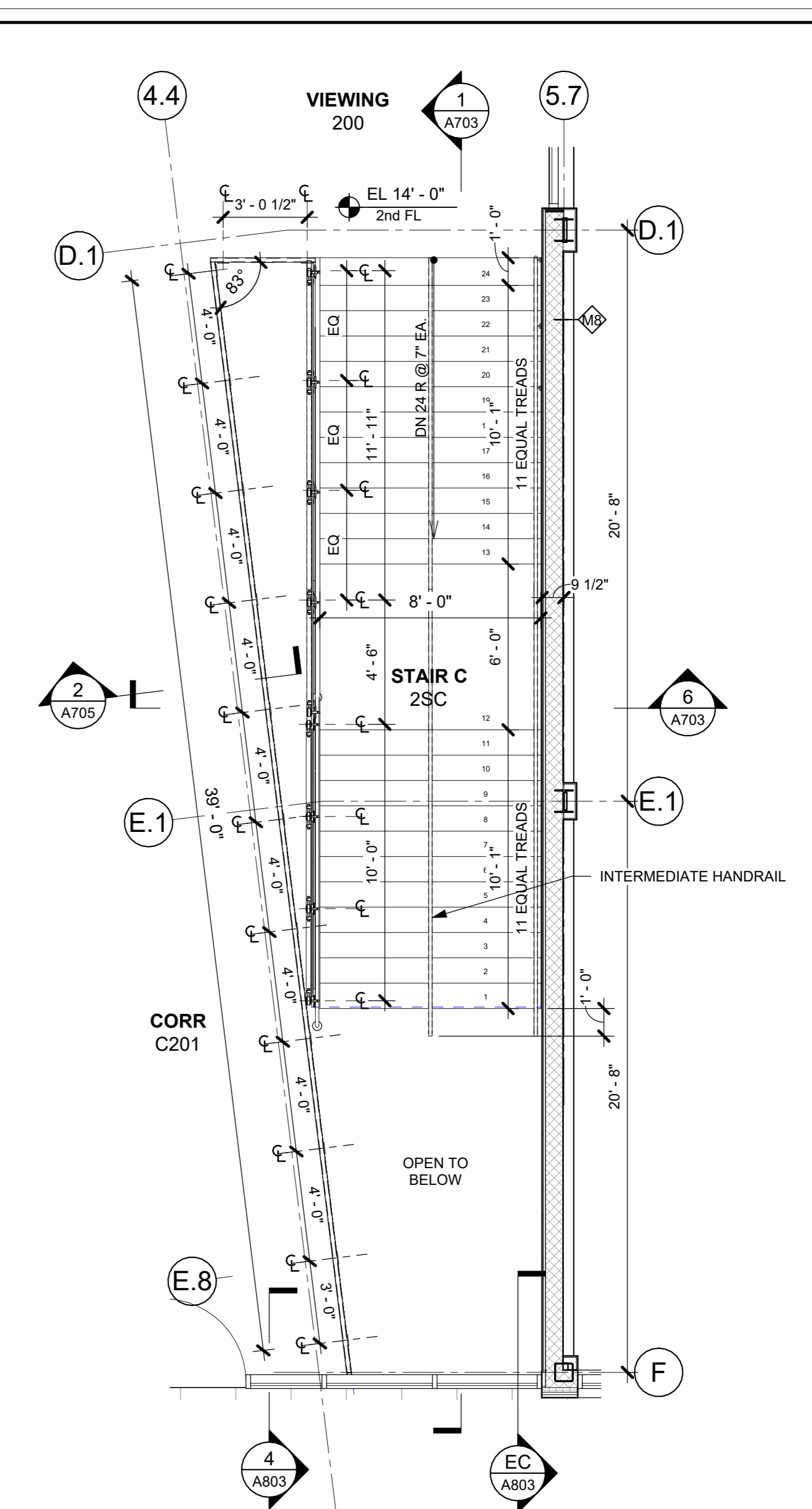
A702



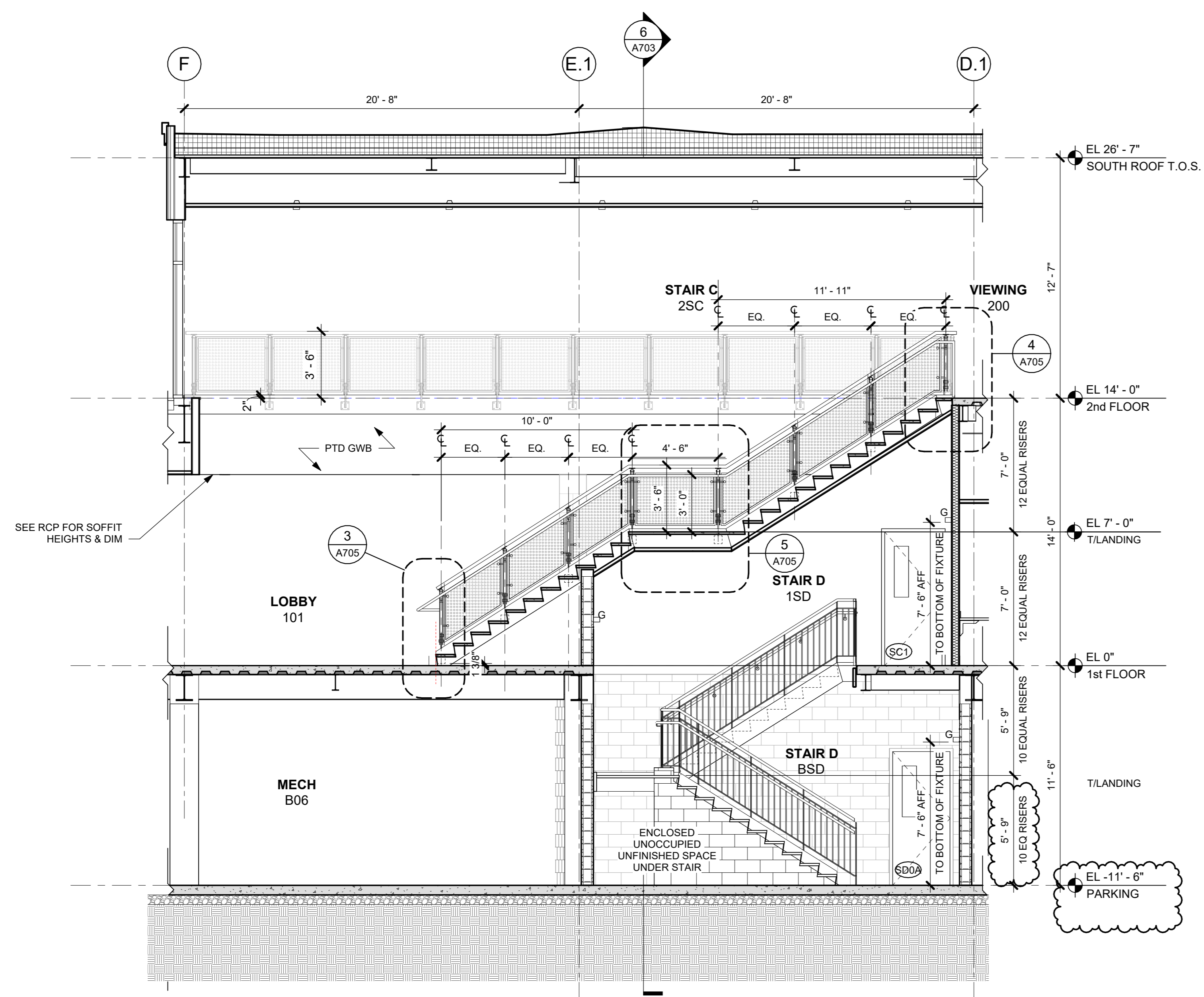
2 SECTION AT STAIR C & D NORTH ELEV
1/4" = 1'-0"



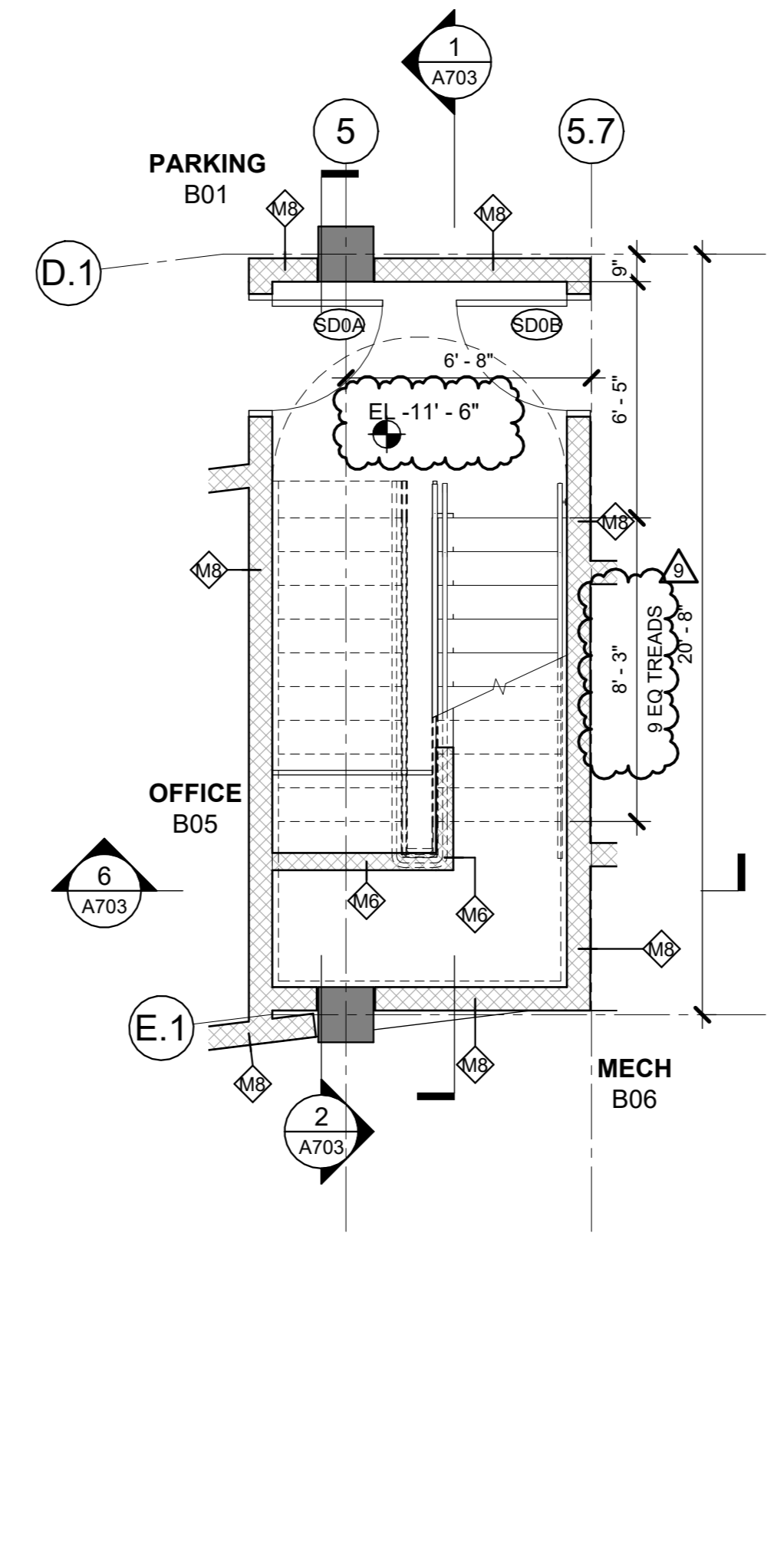
6 SECTION AT STAIR C
1/4" = 1'-0"



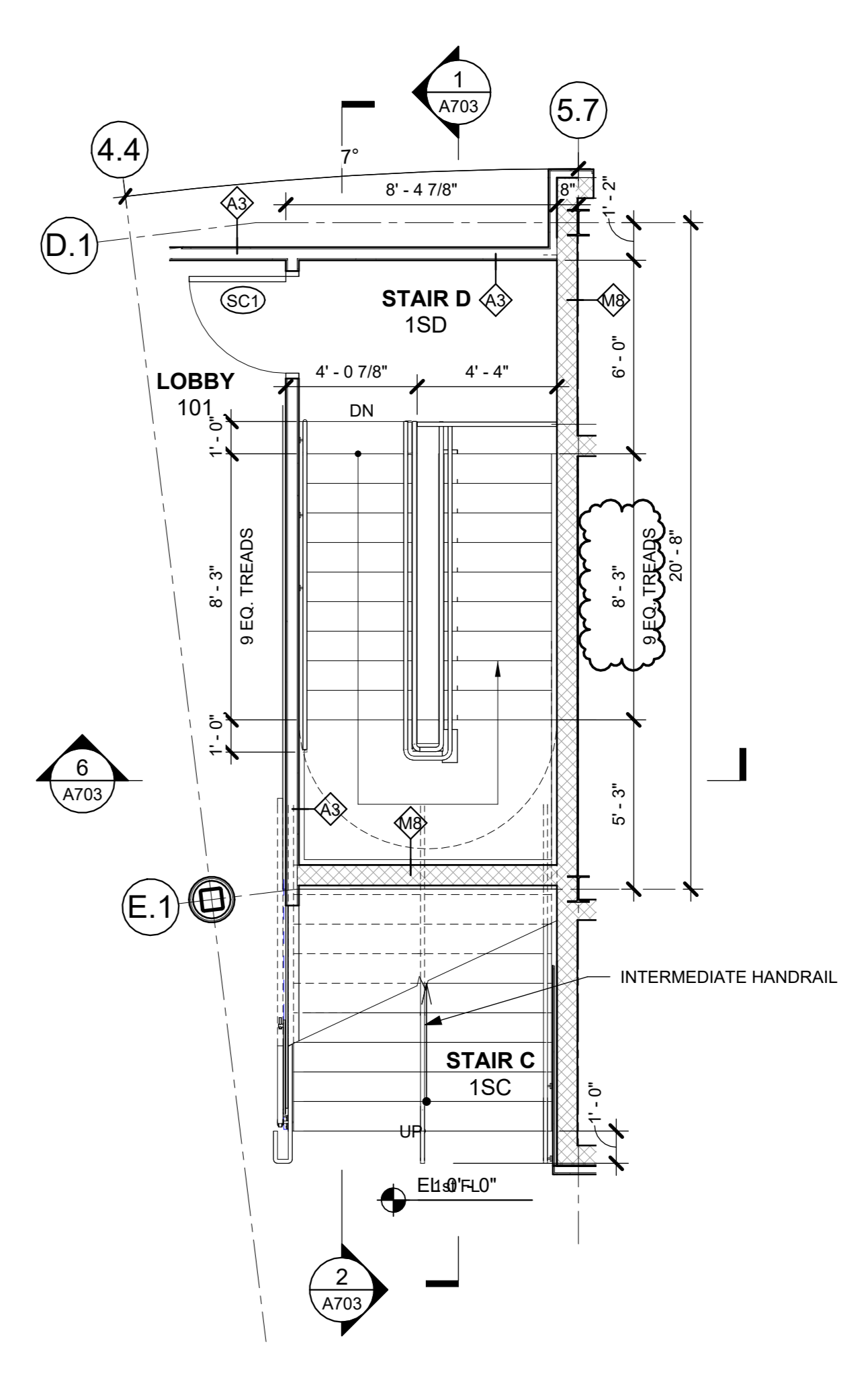
4 STAIR C - 2nd FL PLAN
1/4" = 1'-0"



1 SECTION AT STAIR C & D SOUTH ELEV
1/4" = 1'-0"



5 0 LOWER LEVEL PLAN - Callout 1
1/4" = 1'-0"



3 STAIR D - 1st FL PLAN
1/4" = 1'-0"

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Professional Seal

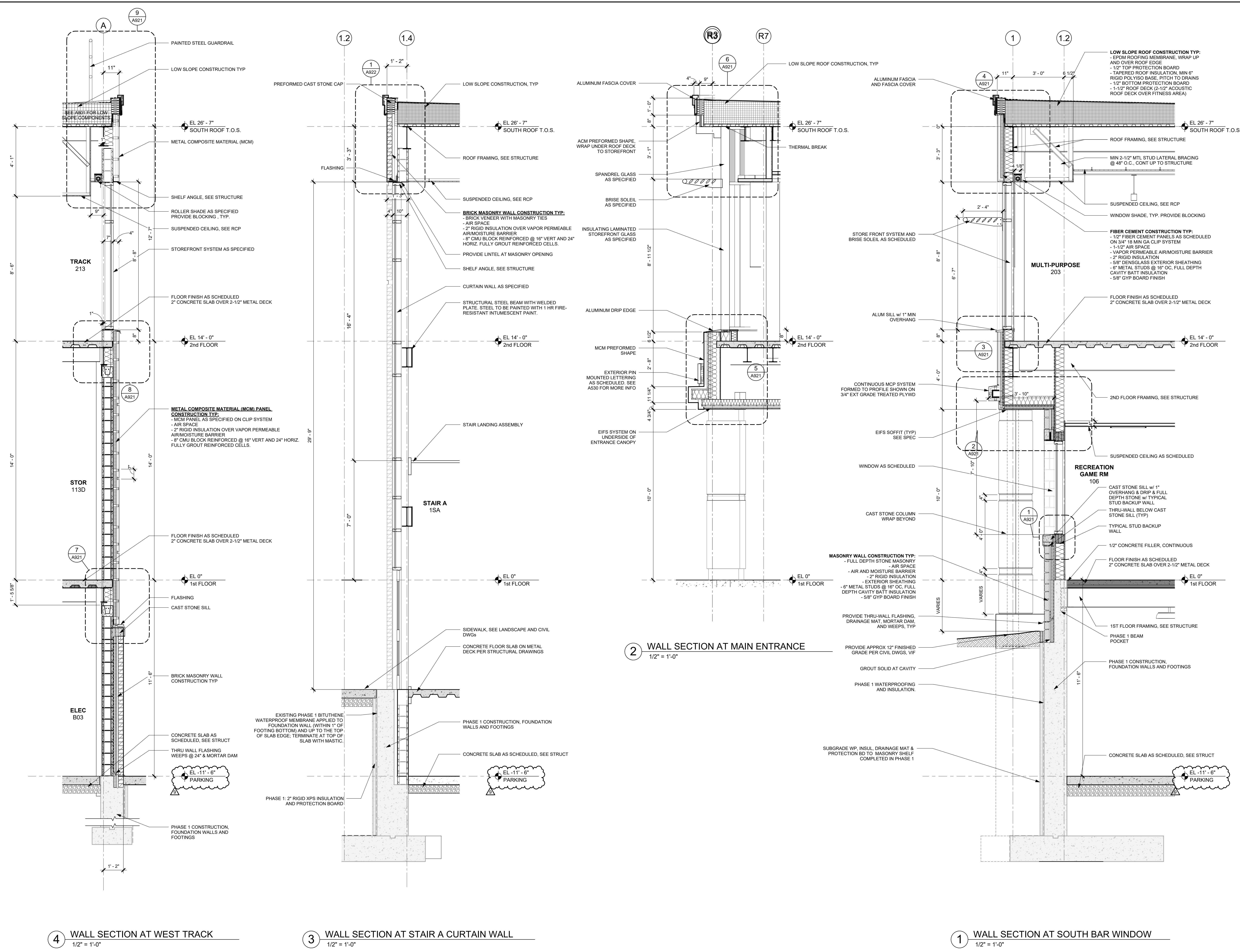
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

No. Date Issue

Sheet Title

STAIR PLANS & SECTIONS

Job No.	2020-1005	Date	02/16/24
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	A703		



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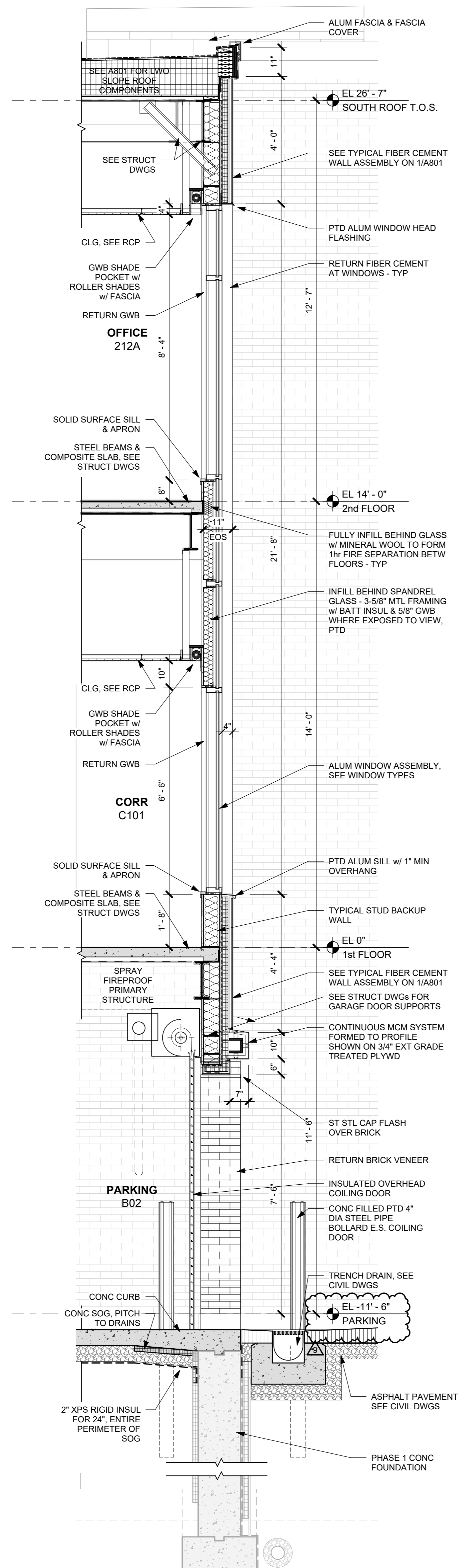
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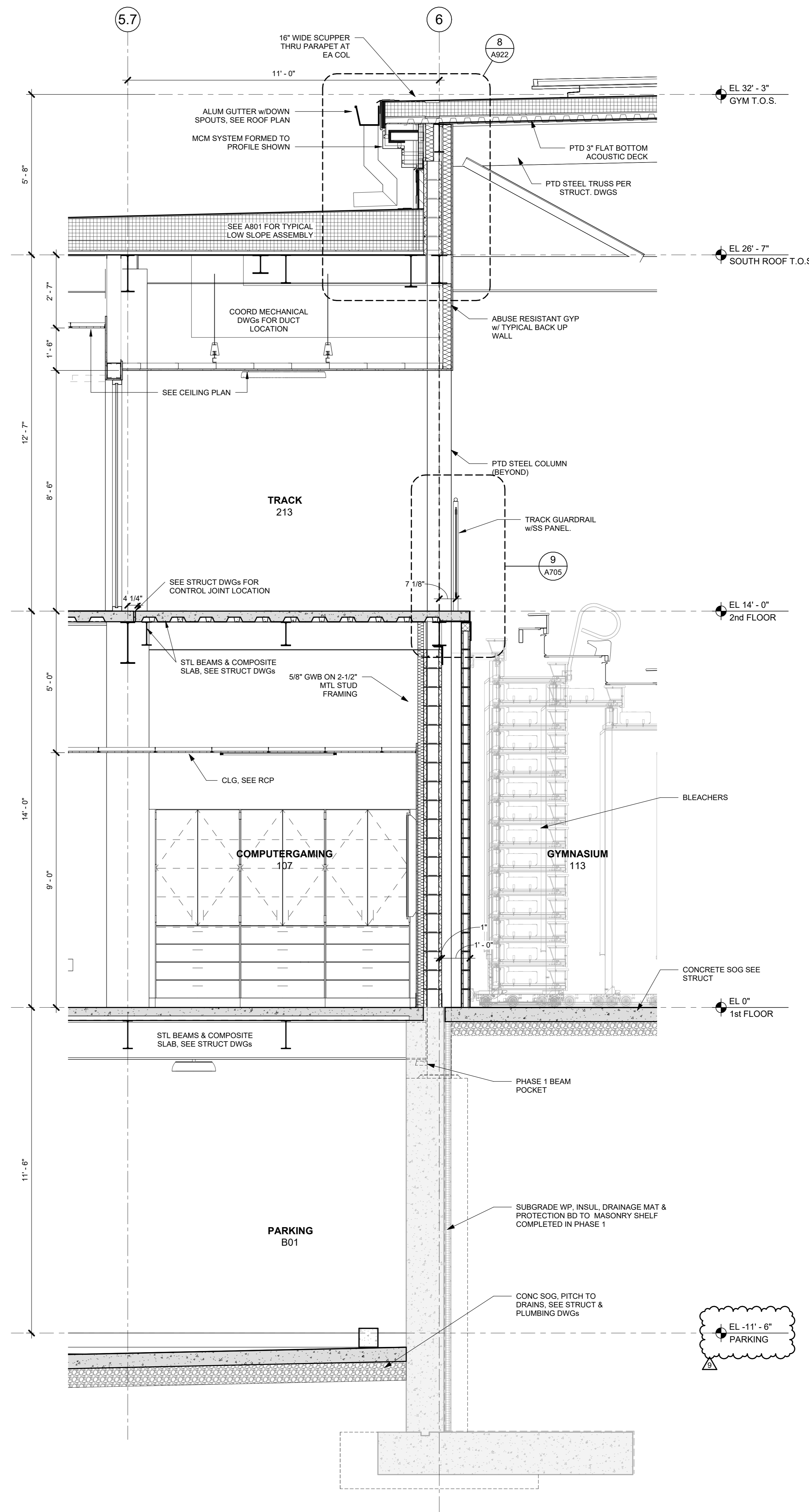
No.	Date	Issue
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

WALL SECTIONS

Job No.	2020-1005	Date	12/24/23
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	A801		



2 WALL SECTION AT PARKING ENTRY
1/2" = 1'-0"



1 WALL SECTION AT TRACK AND GYMNASIUM NORTH
1/2" = 1'-0"

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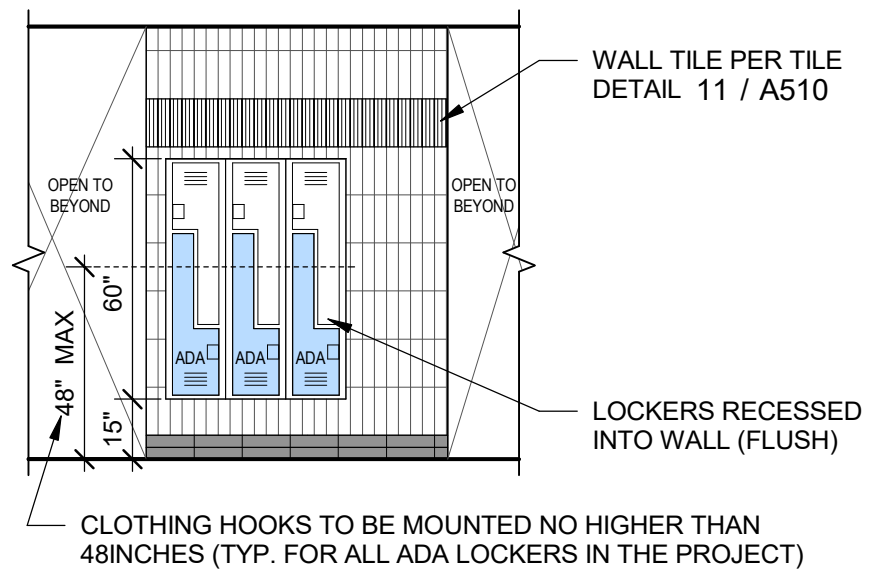
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No.	Date	Issue
9	12/17/2024	BULLETIN #1
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

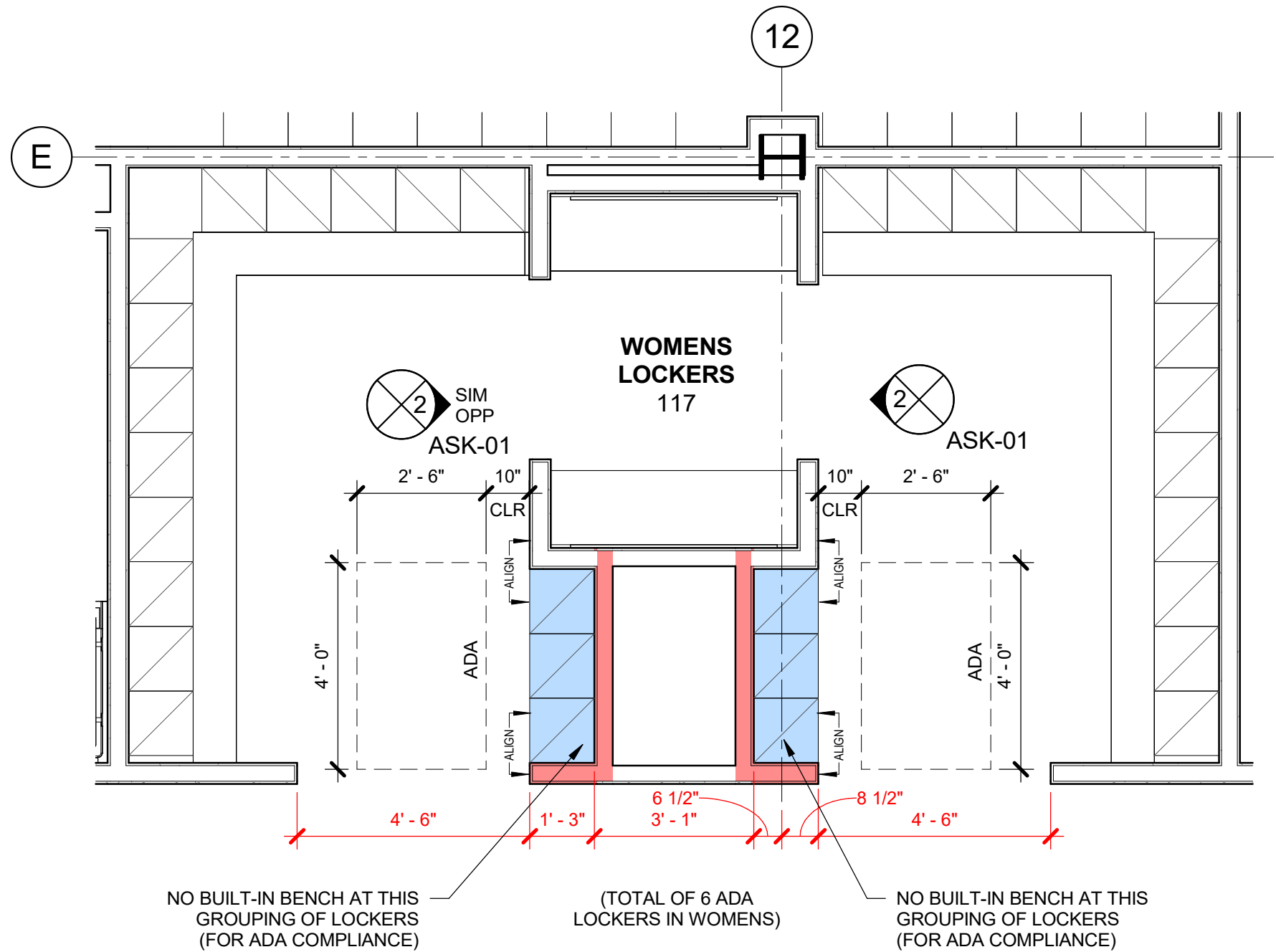
No.	Date	Issue

WALL SECTIONS

Job No.	2020-1005	Date	01/22/24
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	A804		



2 **WOMEN'S ADA LOCKERS**
1/4" = 1'-0"



1 **WOMEN'S LOCKER ROOM - ADA LOCKERS**
3/8" = 1'-0"



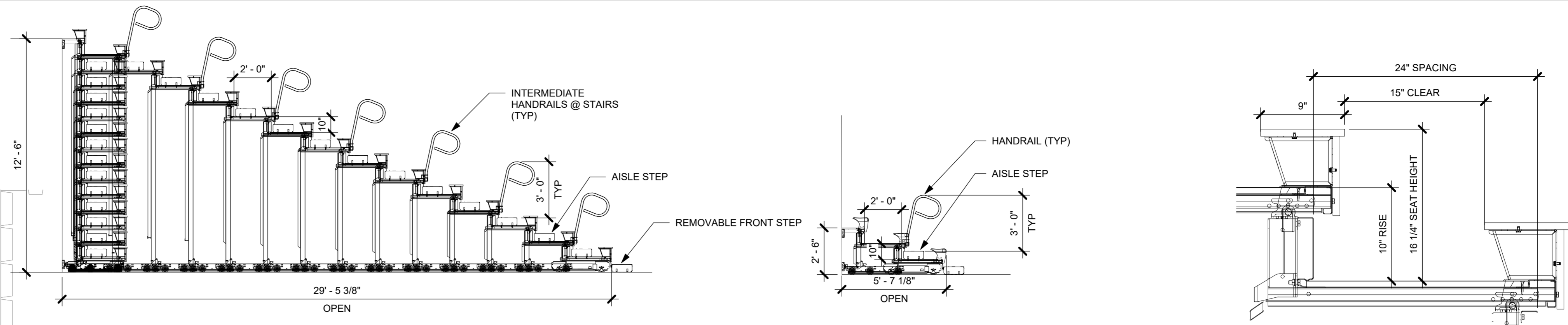
HARRISON RECREATION & COMMUNITY CENTER
Town / Village of Harrison

Sheet Title
LOCKER ROOMS - ADA LOCKER LOCATIONS

Job No.
2020-1005
Date
12/11/2024
Scale
As indicated
Drawn / Checked
KG+D

Sheet No.
ASK-01

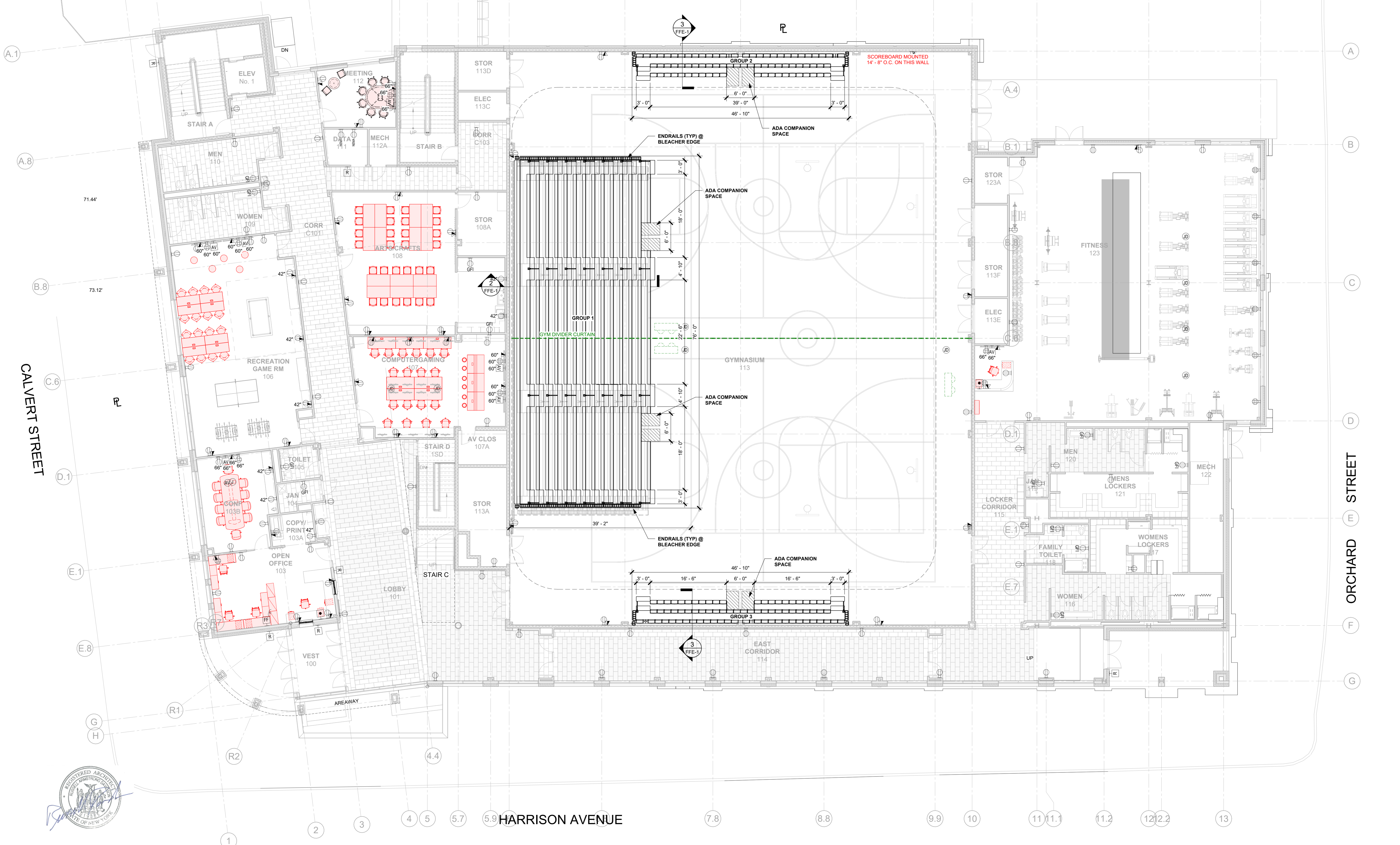
BLEACHER NOTES
 GROUP 1: 595 SEATS + 4 WHEELCHAIR SEATS
 GROUP 2: 80 SEATS + 2 WHEELCHAIR SEATS
 GROUP 3: 80 SEATS + 2 WHEELCHAIR SEATS
TOTAL: 755 SEATS + 8 WHEELCHAIR SEATS



2 SECTION @ LARGER BLEACHER
 1/4" = 1'-0"

3 SECTION @ SMALLER BLEACHERS
 1/4" = 1'-0"

4 ENLARGED BLEACHER SEAT SECTION
 1 1/2" = 1'-0"



PLUMBING FIXTURE SCHEDULE								
TAG	SYMBOLS		FIXTURES	PLUMBING CONNECTIONS				DESCRIPTION
	PLAN	ELEVATION		WASTE	VENT	COLD WATER	HOT WATER	
P-1			WATER CLOSET WALL-MOUNT	4"	2"	1 1/2"	-	MANUFACTURER: AMERICAN STANDARD MODEL: AFWALL ELONGATED TOILET LESS EVERCLEAN 1.6 GPF FLUSH VALVE, WALL MOUNTED TOILET, WITH ELONGATED BOWL, VITREOUS CHINA, WITH EVERCLEAN 1 1/2" INLET SPUD, 2 1/2" TRAPWAY, 10 1/2" WATER SURFACE AREA FLUSH VALVE: AMERICAN STANDARD SELECTRONIC #6065.161 002 BATTERY POWER (TOP SPUD) RECESSED WALL MOUNT TYPE PROVIDE WALL CARRIER
P-2			LAVATORY WALL HUNG	2"	2"	3/4"	3/4"	MANUFACTURER: SLOAN SOLID SURFACE 1-STATION WALL MOUNTED SINK MODEL: ELGR-81000 SLOANSTONE SOLID SURFACE, DOUBLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS
P-2A			LAVATORY WALL HUNG	2"	2"	3/4"	3/4"	MANUFACTURER: SLOAN SOLID SURFACE 2-STATION WALL MOUNTED SINK MODEL: ELGR-82000 SLOANSTONE SOLID SURFACE, DOUBLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS
P-2B			LAVATORY WALL HUNG	2"	2"	3/4"	3/4"	MANUFACTURER: SLOAN MODEL: ELGR-83000 SLOANSTONE SOLID SURFACE, TRIPLE HOLE FAUCET: MODEL: REFER TO ARCHITECTURAL PLANS
P-3			URINAL	3"	2"	3/4"	-	MANUFACTURER: AMERICAN STANDARD MODEL: 6002 001 TOP SPUD HIGH EFFICIENCY URINAL 0.125 GPF, VITREOUS CHINA, 3/4" INLET SPUD, OUTLET CONNECTION 2" THREADED INSIDE FLUSH VALVE: MODEL: G065013.002, 0.125 GPF EXPOSED TOP SPUD RECESSED WALL MOUNT TYPE S ELECTRONIC URINAL FLUSH VALVE: 20 PSI (FLOWING), 80 PSI (STATIC) OPERATING PRESSURE, 10 GPM FLOW REQUIREMENT PROVIDE WALL CARRIER
P-4			SHOWER (ADA)	3"	2"	3/4"	3/4"	MANUFACTURER: BEST BATH SYSTEMS MODEL: 4LSS24038A75FB V3" 38.25"x40.5"x80.5" SHOWER, FIBERGLASS NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ADA GUIDELINES. PROVIDE MOEN HANDHELD KIT KACXMOAN1001 OR APPROVED EQUIVALENT.
P-4A			SHOWER (ADA)	3"	2"	3/4"	3/4"	MANUFACTURER: BEST BATH SYSTEMS MODEL: 4LSS26337A75FB V3" 38.5"x63"x80.5" SHOWER, FIBERGLASS NOTES: INSTALL IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND ADA GUIDELINES. PROVIDE MOEN HANDHELD KIT KACXMOAN1001 OR APPROVED EQUIVALENT.
P-5			ART ROOM SINK	2"	2"	3/4"	3/4"	MANUFACTURER: ELKAY MODEL: EVM4820C 304 STAINLESS STEEL WALL HUNG MULTIPLE STATION HAND WASH SINK. INCLUDE SOLIDS INTERCEPTOR AT DRAIN.
P-6			SINK (ADA)	2"	2"	3/4"	3/4"	MANUFACTURER: ELKAY MODEL: LRAD21985 FAUCET: MAKE: ELKAY MODEL: LK406GN05T4 304 STAINLESS STEEL DROP IN ADA SINK. FAUCET SHALL BE BRASS MATERIAL, & DOUBLE HOLE WITH A FLOW RATE OF 1.5 GPM. INCLUDE SOLIDS INTERCEPTOR AT DRAIN.
P-7			JANITOR'S SINK	3"	2"	3/4"	3/4"	MANUFACTURER: ZURN MODEL: ZS650 FAUCET: ZURN SINK FAUCET ZB43M1-XL ENAMELED CAST IRON CORNER FLOOR SINK WITH 28x28x8 BOWL, 3" DRAIN WITH DRAIN GRID
CM			COFFEE MAKER	-	-	3/4"	-	MANUFACTURER: CURTIS MODEL: ALPHA GA AUTOMATIC COFFEE BREWING SYSTEM SHALL BE ABLE TO BREW 12 GAL/HR ELECTRICAL: 120V/160, 1800 WATTS, 15 AMPS
CM-1			COFFEE MAKER	-	-	3/4"	-	MANUFACTURER: KEURIG MODEL: KEURIG K-2500 PLUMBED COMMERCIAL COFFEE MAKER ELECTRICAL: 120V/160, 1800 WATTS, 12 AMPS
IM			ICE MACHINE	-	-	3/4"	-	MANUFACTURER: AVANTCO ICE MACHINES MODEL: KMC-H-530-A 30" AIR COOLED MODULAR HALF CUBE ICE MACHINE WITH BIN - 500LB. ICE MAKER WITH BIN. SHALL BE ABLE TO PRODUCE 500 LBS/DAY AT 90°F. 350 LB BIN STORAGE CAPACITY. ELECTRICAL: 115V/160, 9.4 AMPS
IM-1			ICE MACHINE	-	-	3/4"	-	MANUFACTURER: AVANTCO ICE MACHINES MODEL: LUC-F-120-A-19" AIR COOLED UNDERCOUNTER FULL CUBE ICE MACHINE - 129LB. ICE MAKER WITH BIN. SHALL BE ABLE TO PRODUCE 129 LBS/DAY AT 90°F. 40 LB BIN STORAGE CAPACITY. ELECTRICAL: 115V/160, 5 AMPS
DW			DISHWASHER	1-3/8"	-	-	1/2"	MANUFACTURER: JACKSON WAREWASHING SYSTEMS MODEL: DISHSTAR HT-E UNDERCOUNTER DISHWASHER, HIGH TEMPERATURE SANITIZING, 27 RACKS PER HOUR CAPACITY, 100 SECOND CYCLE, BOTTOM MOUNTED CONTROLS WITH STAINLESS STEEL TOP AND SIDE PANELS, AND BUILT IN BOOSTER HEATER, 180°F FINAL RINSE WATER, ELECTRICAL: 208V/0/1
DF			DRINKING FOUNTAIN	2"	2"	3/4"	-	MANUFACTURER: ELKAY MODEL: LEST38WSLK #H20 BOTTLE FILLING STATION AND 84-LEVEL ADA COOLER FILTERED REFRIGERATED LIGHT GRAY, 8.0 GPM OF 50°F DRINKING WATER BASED ON 80°F INLET WATER AND 90°F AMBIENT MODEM: V/PHz: 115V/160, FLA=6
DF-1			DRINKING FOUNTAIN	2"	2"	3/4"	-	MANUFACTURER: ELKAY MODEL: L258WSLK #H20 BOTTLE FILLING STATION WITH SINGLE ADA COOLER FILTERED REFRIGERATED LIGHT GRAY, 8.0 GPM OF 50°F DRINKING WATER BASED ON 80°F INLET WATER AND 90°F AMBIENT MODEM: V/PHz: 115V/160, FLA=6
FD			FLOOR DRAIN	3"	2"	-	-	FLOOR DRAIN: MAKE: JR SMITH MODEL: 2110 MEDIUM DUTY DRAIN, 8.5" ROUND TOP, STRAINER. PROVIDE TRAP SEAL.
FD-1			PARKING GARAGE FLOOR DRAIN	3"	2"	-	-	WADE #W-1210-27 WITH CAST IRON BODY, CAST IRON DRAINAGE FLANGE, SEDIMENT BUCKET, FLASHING COLLAR, 12" ROUND HEAVY DUTY CAST IRON GRATE, PROVIDE TG-1 FOR EACH FD.
NFHB			NON FREEZE HOSE-BIB	-	-	-	-	HOSE BIB: MAKE: WOODFORD MODEL: 65 ANTI-SIPHON PROTECTED AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH INTEGRAL VACUUM BREAKER
COPD			CLEANOUT DECK PLATE	-	-	-	-	FLOOR CLEANOUT WITH ADJUSTABLE HEAD, ANCHOR FLANGE, CUT-OFF SECTIONS AND ROUND SCORIATED NICKEL-BRONZE TOP. WADE #W-4000 OR APPROVED EQUAL. PROVIDE HEAVY DUTY CAST IRON TOP FOR MECHANICAL ROOMS. COPD IN GARAGE ROOM TO BE RATED FOR VEHICULAR TRAFFIC.
WCO			WALL CLEANOUT	-	-	-	-	WALL CLEANOUT WITH CLEANOUT TEE AND CHROME PLATED BRONZE SQUARE ACCESS COVER AND FRAME. WADE #W-8480 OR APPROVED EQUAL.
RD-1			ROOF DRAIN	4"	2"	2	-	JOSAM 21500 4" SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WEJOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, LARGE SLUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.
OD-1			ROOF DRAIN	4"	2"	2	-	JOSAM 21500 4" 16 SERIES COATED CAST IRON ROOF DRAIN, LARGE POLYPROPYLENE LOCKING DOME, WEJOC NON-PUNCTURING CLAMP RING WITH INTEGRAL GRAVEL STOP, INTERNAL WATER GUARD FOR OVERFLOW, LARGE SLUMP WITH WIDE ROOF FLANGE AND BOTTOM OUTLET.

NOTES:
1.) REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	BFP	BACK FLOW PREVENTOR
	-	BALL VALVE
	-	BASKET STRAINER
	-	BUTTERFLY VALVE
	-	CHECK VALVE
	-	CIRCUIT SETTER
	CODP	CLEAN OUT DECK PLATE
	CW	COLD WATER
	-	CONCENTRIC REDUCER
	DCV	DOUBLE CHECK VALVE - BFP
	-	ECCENTRIC REDUCER
	-	ELBOW DOWN
	-	ELBOW UP
	DEM.	EXISTING TO BE REMOVED
	EX.	EXISTING TO REMAIN
	-	FLEXIBLE CONNECTION
	FCO	FLOOR CLEAN OUT
	FS	FLOOR SINK
	-	FLOW ARROW
	FAI	FRESH AIR INTAKE
	-	GATE VALVE
	-	GLOBE VALVE
	HW	HOT WATER
	HW HTR	HOT WATER HEATER
	HWC	HOT WATER RECIRCULATION
	LDR	LEADER
	-	MANUAL AIR VENT
	NEW	NEW WORK
	-	OS&G GATE VALVE
	-	PLUG VALVE
	-	PIPE VALVE
	-	PRESSURE GAGE
	-	PRESSURE REDUCING VALVE
	-	PUMP
	PD	PUMP DISCHARGE
	RPZ	REDUCED PRESSURE ZONE - BFP
	REL.	REMOVE AND RELOCATE
	S	SANITARY
	-	SOLENOID VALVE
	-	STRAINER
	SD	STORM DRAINAGE
	-	TEE DOWN
	-	TEE UP
	-	THERMOMETER
	TYP.	TYPICAL
	-	T&P RELIEF VALVE
	-	UNION
	V	VENT
	VTR	VENT THROUGH ROOF
	WCO	WALL CLEAN OUT
	W	WASTE LINE

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

PLUMBING MATERIALS

- ALL PIPING BURIED BELOW THE GARAGE SLAB SHALL BE HIGH PERFORMANCE HUB & SPIGOT SERVICE WEIGHT CAST IRON CHARLOTTE PIPE "EDGE HP IRON" ATSM A74, CISPI TMNSF, EN 877 COMPRESSION GASKETS ASTM C564 OR LEAD & OAKUM. REFER TO SPECIFICATIONS 221316

GENERAL NOTES

- THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO MECHANICAL ROOMS, COPD IN GARAGE ROOM TO BE RATED FOR VEHICULAR TRAFFIC.
- THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES, IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
- PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
- ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.

GENERAL NOTES

- PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2 1/2".
- NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.

EQUIPMENT NOTES

- NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-1): SHALL BE BASED ON AO SMITH MODEL BTH-120 MXI, RATED FOR 138 GPH @ 100° RISE, GAS FIRED, 120,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 98%
- NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-2): SHALL BE BASED ON AO SMITH MODEL BTH-150 MXI, RATED FOR 178 GPH @ 100° RISE, GAS FIRED, 150,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 98%
- NATURAL GAS-FIRED DOMESTIC HOT WATER HEATER, (HWH-3): SHALL BE BASED ON AO SMITH MODEL BTH-120 MXI, RATED FOR 138 GPH @ 100° RISE, GAS FIRED, 120,000 BTUH INPUT CAPACITY. THERMAL EFFICIENCY = 98%
- ELEVATOR SLUMP PUMP, (ESP-1): TO BE BASED ON STANCOR MODEL S650 PUMP, 0.5 HP, 115V-1 PHASE-60 HERTZ, 8 FLA, 55 GPM @ 20 FEET HEAD AND 3450 RPM, 40A LOCKED ROTOR AMPS, 33 FEET MAX. SUBMERGENCE. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.
- SUMP PUMP, (SP-1) AND (SP-2), TO BE BASED ON STANCOR MODEL SV500 PUMP, 5 HP, 208V-3 PHASE-60 HERTZ, 16.6 FLA, 210 GPM @ 35 FEET HEAD AND 3450 RPM, 83A LOCKED ROTOR AMPS, 33 FEET MAX. SUBMERGENCE. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.
- LD-1 SPOT TYPE LEAK DETECTORS SHALL BE LIEBERT MODEL LT-410. PROVIDE 100 WATT LOW-VOLTAGE TRANSFORMER. PROVIDE CONNECTION TO BMS FOR LD ALARM.
- DOMESTIC HOT WATER HEATER RECIRCULATION PUMP, (HWCP-1): SHALL BE BASED ON BELL AND GOSSETT MODEL PL-55 RATED FOR 1.5 GPM AT 40' TDH, 2/5 HP, 120V/1600HZ. MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- 3" DOMESTIC WATER BACKFLOW PREVENTION ASSEMBLY: SHALL BE WATTS MODEL LF009 LEAD FREE REDUCED PRESSURE ZONE BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&S SEATED SHUTOFF VALVES AND FOUR BALL TYPE TEST COCKS. THE 3" DOMESTIC WATER BACKFLOW PREVENTER SHALL BE PROVIDED WITH WATTS AIR GAP / SPLASH GUARD.
- 6" FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLY: SHALL BE WATTS SERIES 709DCD DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER. ASSEMBLY SHALL BE SUITABLE FOR PRESSURES UP TO 175 PSI AND TEMPERATURES UP TO 110°F. THE ASSEMBLY SHALL INCLUDE TWO RESILIENT OS&S SEATED SHUTOFF VALVES AND TWO BALL TYPE TEST COCKS.
- WATER METER: SHALL BE BASED ON ELSTER EVOQA METER, 3" SIZE, FINAL WATER METER AND SIZE, MODEL, AND DIMENSIONS SHALL BE DETERMINED AND APPROVED BY THE WATER UTILITY. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION, AND ALL RELATED WATER DEPARTMENT FEES.
- ALL DOMESTIC, SANITARY, AND STORM PIPING ROUTED EXPOSED WITHIN GARAGE SHALL BE HEAT TRACED COMPLETE, INCLUDING A MINIMUM OF 5'-0" INTO THE TEMPERED SPACES. PIPING SHALL BE INSULATED COMPLETE AND WRAPPED WITH PVC JACKETING.
- COORDINATE WITH ARCHITECTURAL DRAWINGS FOR FINAL LOCATION, TYPE, AND QUANTITY OF FIXTURES AND ROOF DRAINS THROUGHOUT THE BUILDING.
- COORDINATE WITH SITE ENGINEER DRAWINGS FOR FINAL LOCATION, TYPE, AND QUANTITY OF ROADWAY DRAINS.
- ALL PIPING INCLUDING HANGERS/SUPPORTS WITHIN THE GARAGE SHALL BE ROUTED AS HIGH AS POSSIBLE TO MAINTAIN VEHICLE CLEARANCE THROUGHOUT. REFER TO ARCHITECTURAL DRAWINGS FOR MINIMUM ELEVATIONS.
- THE PLUMBING CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING EQUIPMENT, DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, AND ALL RCP ELEMENTS, ETC.
- PROVIDE TRAP AND VALVE GUARDS AT ALL LAVATORIES WITH EXPOSED PIPING SIMILAR TO TRUEBRO P-TRAP AND TWO (2) VALVE COVERS WITH VINYL COVER.
- GAS BOOSTER PUMP (GMP-1): SHALL BE ACCARDI COMPAC HB4615-1. SYSTEM SHALL BE A PACKAGE HERMETICALLY SEALED SYSTEM THAT INCLUDES AUTO FLOW CONTROL, INTEGRAL VFD, NEMA 4 PANEL, NEMA 4 LOW PRESSURE SWITCH, INLET AND OUTLET ISOLATION VALVES, FLEXIBLE CONNECTIONS, INLET AND OUTLET PRESSURE GAUGES, AND CHECK VALVE. SYSTEM SHALL BE CAPABLE OF DELIVERING A VARIABLE VOLUME OF NATURAL GAS OF 1,370 CFH WHILE PROVIDING A CONSTANT ELEVATED DIFFERENTIAL GAS PRESSURE OF 11" WC.

HARRISON RECREATION & COMMUNITY CENTER

New Construction - Phase 2

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CONSTRUCTION DOCUMENTS

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Professional Seal



No.	Date	Issue
9	12/13/2024	PERMIT ADDENDUM
8	10/09/2024	ISSUED FOR CONSTRUCTION
7	10/09/2024	CONFORMED SET
4	06/05/2024	ISSUED FOR BID
3	01/16/2024	ISSUED FOR PERMIT
2	06/01/2020	DESIGN DEVELOPMENT
1	03/31/2020	50% DESIGN DEVELOPMENT

Sheet Title

PLUMBING SYMBOLS, ABBREVIATIONS, & NOTES

Job No. NKG0207.00 Date 03/01/2024

Scale AS NOTED Drawn / Checked HM / RG

Sheet Number

P-001

RETURN REGISTER / TRANSFER GRILLE SCHEDULE			
DESIGNATION	RG-1 / TG-1 / EG-1	RG-2	
MODEL	3 FS	56 FL	
MAX NK VEL (FT/MIN)	500	-	
MAX NC	25	-	
CONSTRUCTION	ALUMINUM	ALUMINUM	
BORDER/FRAME	SURFACE MOUNTED	SURFACE MOUNTED	
DEFLECTION	45° FIXED	0° FIXED	
SPACING	3/4"	3/4"	
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE
	0-150	8x8	0 - 10,500
	151-250	10x10	48x48
	251-350	12x12	
	351-725	18x18	
	726-950	22x22	
	951-1100	24x24	
	1101-1400	24x30	

NOTES:
1. RETURN REGISTERS ARE BASED ON TITUS.
2. THE ABOVE SCHEDULE INDICATES NOMINAL REGISTER NECK SIZES. THE CONTRACTOR SHALL COORDINATE THE REGISTER SIZE IN THE FIELD ACCORDING TO THE ACTUAL DUCT DIMENSIONS AND MAINTAIN AN EQUIVALENT CORE AREA.
3. ALL REGISTERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
4. SUBMIT COLOR CHART FOR REVIEW AND APPROVAL BY ARCHITECT.
5. RETURN REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.

SUPPLY REGISTER SCHEDULE					
DESIGNATION	SR-1	SR-2	SR-3		
MODEL	300RL	S300FS	DL		
MAX NK VEL (FT/MIN)	550	550	550		
MAX NC	25	25	25		
CONSTRUCTION	ALUMINUM	ALUMINUM	ALUMINUM		
BORDER/FRAME	SURFACE MOUNTED	SURFACE MOUNTED	SURFACE MOUNTED		
DEFLECTION	DOUBLE	DOUBLE 22.5°	-		
SPACING	3/4"	3/4"	-		
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE
	0-200	8x8	0-170	14x6	800-1000
	201-300	10x10			36x8
	301-500	12x12			
	501-850	16x16			
	851-1100	18x18			
	1101-1700	22x22			
	1701-2000	24x24			

NOTES:
1. SUPPLY REGISTERS BASED ON TITUS.
2. THE ABOVE SCHEDULE INDICATES NOMINAL REGISTER NECK SIZES. THE CONTRACTOR SHALL COORDINATE THE REGISTER SIZE IN THE FIELD ACCORDING TO THE ACTUAL DUCT DIMENSIONS AND MAINTAIN EQUIVALENT CORE AREA.
3. ALL REGISTERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
4. SUBMIT COLOR CHART FOR REVIEW AND APPROVAL BY ARCHITECT.
5. SUPPLY REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.
6. SR-2 AND SR-3 SHALL BE PROVIDED WITH AIR SCOOP DEVICE.

CEILING DIFFUSER SCHEDULE		
DESIGNATION	CD-1	
MODEL	OMNI	
MAX CORE VEL (FT/MIN)	550	
MAX NC	25	
CONSTRUCTION	STEEL	
FRAME	LAY-IN	
DEFLECTION	4 WAY	
FACE SIZE	24x24	
	CFM RANGE	NOMINAL NECK SIZE
	0-100	6"
	101-200	8"
	201-350	10"
	351-450	12"
	451-600	14"
	601-700	15"

NOTES:
1. CEILING SUPPLY DIFFUSERS ARE BASED ON TITUS.
2. ALL DIFFUSERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
3. COORDINATE COLOR SELECTION WITH ARCH PLANS.
4. SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.
5. ALL LAY-IN DIFFUSERS SHALL HAVE A MODULE SIZE OF 24x24. FACE SIZES SHOWN IN SCHEDULE ARE FOR SURFACE MOUNT DIFFUSERS. NECK SIZES VARY ACCORDING TO THE SCHEDULE.
6. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS.

DUCTLESS SPLIT-SYSTEM AC UNIT SCHEDULE			
INDOOR/OUTDOOR UNIT DESIGNATION	AC-1 / CU-1	AC-2 / CU-2	AC-3 / CU-3
MANUFACTURER	LG	LG	LG
NOMINAL COOLING CAPACITY (TONS)	1	1	1
NOMINAL COOLING CAPACITY (MBH)	12,000	12,000	11,100
NOMINAL HEATING CAPACITY AT 47°F (MBH)	12,000	12,000	14,000
NOMINAL HEATING CAPACITY AT 49°F (MBH)	9,640	9,640	11,990
SEER/EER	17 / 10.5	17 / 10.5	19.4 / -
HPSF	8.5	8.5	8.2
RS PIPE SIZE (IN)	3/8	3/8	3/8
RL PIPE SIZE (IN)	1/4	1/4	1/4
CONDENSATE DRAIN PIPE SIZE (IN)	5/8	5/8	5/8
ELECTRICAL DATA:			
VOLTS/Ø/Hz	208/1/60	208/1/60	208/1/60
BREAKER SIZE (AMPS) AT OUTDOOR UNIT	10 / 15	10 / 15	12.3 / 15
INDOOR EVAPORATOR UNIT DATA			
LOCATION	DATA 111	DATA 205A	OFFICE B05
MODEL	LSN120HFV3	LSN120HFV3	LCN128HV4
HEIGHT x WIDTH x DEPTH (IN)	12.2 x 33 x 7.5	12.2 x 33 x 7.5	8.1 x 22.5 x 22.5
WEIGHT (LBS)	19.2	19.2	31
TYPE	WALL MOUNTED	WALL MOUNTED	CEILING CASSETTE
SUPPLY FAN AIRFLOW (CFM)	353	353	335
HP	0.1	0.1	0.1
OUTDOOR CONDENSING UNIT DATA:			
LOCATION	ROOF	ROOF	ROOF
MODEL	LSU120HFV3	LSU120HFV3	LUU120HV
HEIGHT x WIDTH x DEPTH (IN)	19.5 x 28.3 x 10.7	19.5 x 28.3 x 10.7	21.5 x 30.4 x 11.4
WEIGHT (LBS)	55.3	55.3	71
REFRIGERANT TYPE	R-410A	R-410A	R-410A
NOTES:	1. PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT: - 0° LOW AMBIENT CONTROLS. - HARD WIRED REMOTE CONTROLLER - WIND Baffle 2. FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR. 3. FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT OUTDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR. 4. SINGLE POINT EXTERNAL POWER CONNECTION FOR EACH INDOOR/OUTDOOR SET OF UNITS SHALL BE AT THE OUTDOOR UNIT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING FROM THE OUTDOOR UNIT TO THE INDOOR UNIT. 5. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT. 6. PROVIDE ALL REQUIRED MOUNTING BRACKETS, SUPPORTS, HANGERS, PADS, ETC. FOR INSTALLATION. 7. PROVIDE ACCESSORIES AS REQUIRED BY MANUFACTURER, WHICH MAY INCLUDE: LIQUID LINE SOLENOID, RELAYS, FILTERS, ETC.		

VARIABLE REFRIGERANT FLOW - WATER COOLED CONDENSING UNIT SCHEDULE					
DESIGNATION	WCHP-1	WCHP-2	WCHP-3	WCHP-4	WCHP-5
DESCRIPTION	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
RATED COOLING CAPACITY					
BTU/HHR	168,000	168,000	239,000	264,000	264,000
EWTF (°F)	85	85	85	85	85
LWTF (°F)	94.2	94.2	94.8	95.1	94
GPM	45.7	45.7	60.8	65.9	65.9
RATED HEATING CAPACITY					
BTU/HHR	189,000	189,000	269,000	297,000	297,000
EWTF (°F)	45	45	45	45	45
LWTF (°F)	38.3	38.3	37.7	36.4	37.9
GPM	45.7	45.7	60.8	65.9	65.9
REFRIGERANT CHARGE					
TOTAL CHARGE (LBS)	30.6	30.6	40.8	47.6	42.9
FACTORY CHARGE (LBS)	15.4	15.4	15.4	15.4	15.4
ADDITIONAL REFRIGERANT (LBS)	15.2	15.2	25.4	32.2	27.5
ELECTRICAL DATA:					
VOLTS / Ø / Hz	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
MCA (MODULE 1 / MODULE 2)	13.8/19.4	13.8/19.4	27.7/27.7	27.7/32.7	27.7/32.7
MOCP (MODULE 1 / MODULE 2)	20/30	20/30	45/45	45/50	45/50
PHYSICAL:					
TONS	14	14	20	22	22
WEIGHT (LBS) (MODULE 1 / MODULE 2)	322/322	322/322	322/322	322/322	322/322
DIMENSIONS (WxHxD) (IN) (MODULE 1 / MODULE 2)	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5	30.5 x 44.25 x 21.5 / 30.5 x 44.25 x 21.5
PERFORMANCE:					
COOLING (BTU/HW)	15.6	15.6	15.6	16	15.4
HEATING (BTU/HW)	15.3	15.3	15.5	16.3	14.2
BASIS OF DESIGN	ARWM168BAS5	ARWM168BAS5	ARWM240BAS5	ARWM264BAS5	ARWM264BAS5
NOTES:	1. UNITS BASED ON LG. 2. PROVIDE RUBBER VIBRATION ISOLATION FOR EACH UNIT. 3. WARRANTY SHALL BE 10 YEARS PARTS AND 10 YEARS ON THE COMPRESSORS. 4. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL. 5. PROVIDE ALL UNITS WITH RATED DISCONNECT SWITCH.				

LINEAR DIFFUSER SCHEDULE					
DESIGNATION	LD-1	LD-2	LD-3		
MODEL	FL-15	FL-20	FL-20		
MAX NC	25	25	25		
CONSTRUCTION	ALUMINUM	ALUMINUM	ALUMINUM		
FRAME	LAY-IN	LAY-IN	LAY-IN		
NUMBER OF SLOTS	1	1	1		
SLOT WIDTH (IN)	1.5	2	2		
LENGTH	48"	48"	24"		
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE
	0 - 140	6"	0 - 200	8"	0 - 110
	141 - 170	8"	201 - 230	12"	

NOTES:
1. CEILING LINEAR SUPPLY DIFFUSERS ARE BASED ON TITUS.
2. COORDINATE COLOR SELECTION WITH ARCHITECTURAL PLANS.
3. SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.
4. DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS. PROVIDE PATTERN CONTROLLER.
5. DIFFUSERS SHALL BE INSTALLED WITH FACTORY BUILT SUPPLY PLENUMS WITH MANUFACTURERS INTERNAL SOUND LINING. FIELD INSULATED PLENUMS SHALL BE BASED ON TITUS FBPI.
6. COORDINATE DIFFUSER INSTALLATION WITH REFLECTED CEILING PLANS AND ALL OTHER TRADES.
7. INACTIVE DIFFUSER SECTIONS SHALL BE OPEN TO CEILING PLENUM AND PROVIDED WITH FACTORY LIGHT SHIELD.
8. PROVIDE CONCEALED CABLE OPERATED BALANCING DAMPERS THROUGH SLOT OPENINGS FOR ALL LINEAR DIFFUSERS WITH INACCESSIBLE VOLUME DAMPERS.

ELECTRONIC EXPANSION VALVE KIT		
DESIGNATION	EEV-R-5, EEV-R-6	EEV-B-1, EEV-1-1, EEV-R-1, EEV-R-2, EEV-R-3, EEV-R-4
QUANTITY	2	6
MAX AH CAPACITY (MBH)	96	192
WEIGHT (LBS)	6.8	6.8
DIMENSIONS (WxHxD)	8.75 x 16 x 3.5	8.75 x 16 x 3.5
ELECTRICAL DATA:		
VOLTS / Ø / Hz	208/1/60	208/1/60
AMPS	0.1	0.1
BASIS OF DESIGN	PRLK048A0	PRLK096A0
NOTES:	1. UNITS BASED ON LG. 2. CONTRACTOR TO MAINTAIN A MAXIMUM DISTANCE OF 10 FEET BETWEEN EEV AND COMM KIT. 3. REFRIGERANT TYPE IS R410A	

VARIABLE REFRIGERANT FLOW - ZONE HEAT RECOVERY UNIT SCHEDULE			
DESIGNATION	HURU-2-1, HURU-2-2, HURU-2-4	HURU-B-1, HURU-1-1, HURU-2-3, HURU-2-5, HURU-2-6	HURU-1-2
NUMBER OF PORTS	3	2	6
QUANTITY	3	3	1
CAPACITY PER BRANCH (MBH)	60	60	60
WEIGHT (LBS)	37	33	60
DIMENSIONS (WxHxD) (IN)	19.25 x 8.75 x 19	19.25 x 8.75 x 19	31.25 x 8.75 x 19
ELECTRICAL DATA:			
VOLTS / Ø / Hz	208/1/60	208/1/60	208/1/60
MCA	0.17	0.17	0.27
MOCP	15	15	15
BASIS OF DESIGN	PRHR033A	PRHR023A	PRHR063A
NOTES:	1. UNITS BASED ON LG. 2. PROVIDE DISCONNECT SWITCH. 3. INDIVIDUAL CONTROL AND CHANGEOVER FOR ONE GROUP OF INDOOR UNITS. 4. MAINTAIN REQUIRED CLEARANCES FOR UNIT.		

VARIABLE REFRIGERANT FLOW - INDOOR UNITS SCHEDULE						
DESIGNATION	VRF-1	VRF-2	VRF-3	VRF-4	VRF-5	VRF-6
TONNAGE	4	4	3.5	3	2.5	2
TYPE	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED	DUCTED
QUANTITY	1	1	1	1	1	1
SUPPLY FAN AIRFLOW	1,191	1,191	1,076	845	676	710
SUPPLY FAN HP	2@0.6	2@0.6	2@0.6	2@0.6	0.9	0.6
ESP (IN WC)	0.6	0.6	0.6	0.6	0.6	0.6
COOLING PERFORMANCE						
TOTAL (BTU)	34.6	31.8	30.5	24.7	18.2	21
SENSIBLE (BTU)	25.9	25.9	23.6	19.5	14.6	15
EAT (DB / WB)	74.8 / 62.7	72.7 / 61	73.6 / 61.7	73 / 61.2	72.3 / 60.6	74.8 / 62.7
LAT (DB)	55.6	53.5	54.3	52.6	53.2	56
HEATING PERFORMANCE						
TOTAL CAPACITY (BTU)	45.8	45.8	42	34.8	26.5	28.3
EAT (DB)	68	68	68	68	68	68
LAT (DB)	102.4	102.4	103	104.9	103.1	103.7
ELECTRICAL DATA:						
VOLTS / Ø / Hz	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
MCA	3.1	3.1	2.9	2.9	2.9	1.2
MOCP	15	15	15	15	15	15
WEIGHT (LBS)	96.1	96.1	86.2	86.2	86.2	60
DIMENSIONS (WxHxD) (IN)	49.5x14.5x27.5	49.5x14.5x27.5	49.5x10.5x27.5	49.5x10.5x27.5	49.5x10.5x27.5	49.5x7.5x27.5
MODEL	ARNU483M3A4	ARNU483M3A4	ARNU423M2A4	ARNU363M2A4	ARNU283M2A4	ARNU243L3G4
NOTES:	1. UNITS BASED ON LG. 2. PROVIDE DUCTED UNITS WITH CONDENSATE PUMP. REFER TO M-601 FOR CONDENSATE PUMP SPECIFICATION. 3. PROVIDE UNITS WITH DISCONNECT SWITCH.					

ELECTRIC FIN TUBE RADIATORS		
DESIGNATION	FTR-1	FTR-2
LOCATION	SEE PLANS	SEE PLANS
AREA SERVED	SEE PLANS	SEE PLANS
MODEL	CPH05A8125	CPH05A8188
LENGTH	8 FEET	8 FEET
NUMBER OF ELEMENTS	1	1
VOLTS/Ø/Hz	208/1/60	208/1/60
KW	1	1.5
AMPS	4.8	7.2
NOTES:	1. HEATERS BASED ON QMARK. 2. PROVIDE DPHOSA PEDESTAL. PEDESTAL SHALL BE 3-3/8" TALL. INSTALL PER MANUFACTURERS RECOMMENDATIONS. 3. PROVIDE DISCONNECT SWITCH FOR EACH HEATER 4. PROVIDE UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM. 5. PROVIDE FACTORY INSTALLED LINEAR THERMAL CUT-OUT. 6. CABINET FINISH SHALL BE APPROVED BY ARCHITECT. 7. PROVIDE THERMOSTAT AT AT LOCATION SHOWN ON DRAWINGS.	

ELECTRIC HEATER					
DESIGNATION	UH-1	WH-1	WH-2	CUH-1	CUH-2
LOCATION	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
AREA SERVED	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
MODEL	MUH0381	AWH3150F	AWH4404F	CUH35	CUH35
CFM	350	100	100	250	250
HP	0.01	0.1	0.1	0.1	0.1
FAN RPM	11000	-	-	-	-
VOLTS/Ø/Hz	208/1/60	120/1/60	208/3/60	208/3/60	208/3/60
KW	3	1.5	3	2	3
AMPS	14.5	12.5	14.4	6	9
NOTES:	1. HEATER BASED ON QMARK. 2. PROVIDE DISCONNECT SWITCH FOR EACH HEATER. 3. CABINET UNIT HEATERS SHALL HAVE UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM. UNIT MOUNTED THERMOSTAT WITH FAN ON-OFF-AUTO SWITCH AND TEMP SETTING, AND (2) SETS OF SPARE FILTERS FOR EACH UNIT. 4. CABINET UNIT HEATER FINISH SHALL BE APPROVED BY ARCHITECT. 5. UNIT HEATERS SHALL BE PROVIDED WITH 24 VOLT CONTROL TRANSFORMER, FACTORY HANGING KIT TO MOUNT TO SLAB/CEILING/WALL AS INDICATED ON DRAWINGS, AND FACTORY INSTALLED AUTOMATIC RESET LINEAR THERMAL CUT-OUT. CONTRACTOR SHALL COORDINATE SUPPORT FOR UNIT HEATERS FOR EACH CONDITION. 6. PROVIDE THERMOSTAT AT LOCATION SHOWN ON DRAWINGS.				

100% ENERGY RECOVERY OUTDOOR AIR HANDLER		
DESIGNATION	DOAS-1	DOAS-2
LOCATION	ROOF	ROOF
AREA SERVED	SEE PLANS	SEE PLANS
MANUFACTURER	VTS AMERICA INC.	VTS AMERICA INC.
MODEL	AVS020-R-FRMCHVE	AVS020-R-FRMCHVE
WEIGHT OF UNIT (LBS)	1,770	1,770
DIMENSION (WxHxD) (IN)	47 x 54 x 189	47 x 54 x 189
OUTSIDE AIR (CFM)	2,000	2,010
SUPPLY FAN:		
CFM	2,000	2,010
ESP/TSP (IN H ₂ O)	1.0	1.0
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
MOTOR HP	2	2
CONTROL	VFD	VFD
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	8.3 / 15	8.3 / 15
EXHAUST FAN:		
CFM	2,000	2,010
ESP/TSP (IN H ₂ O)	1.0	1.0
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
MOTOR HP	1.5	1.5
CONTROL	VFD	VFD
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	5.6 / 15	5.6 / 15
COOLING PERFORMANCE:		
E.A.T (DB / WB)	80.2 / 65.8	80.2 / 65.8
L.A.T (DB / WB)	52.8 / 51.9	52.8 / 52.8
GROSS TOTAL CAPACITY (MBH)	82.4	175.6
GROSS SENSIBLE CAPACITY (MBH)	60.2	94.3
REHEAT CAPACITY (MBH)	48.6	48.9
REHEAT (DB / WB)	75 / 60.7	75.0 / 60.7
HEATING PERFORMANCE: HEAT PUMP		
E.A.T. / L.A.T. (DB)	54.2 / 70	54.1 / 70.0
HEATING CAPACITY (MBH)	34.7	35
HEAT ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)		
WINTER RETURN (EXHAUST AIR STREAM)	68 / 68	68 / 68
WINTER EXHAUST (EXHAUST AIR STREAM)	13.9 / 13.9	13.9 / 13.9
WINTER SUPPLY (SUPPLY AIR STREAM)	54.2 / 54.2	54.1 / 54.1
WINTER OUTDOOR AIR (OUTDOOR AIR STREAM)	0.0 / -1.0	0.0 / -1.0
SUMMER RETURN (EXHAUST AIR STREAM)	77 / 63	77 / 63
SUMMER EXHAUST (EXHAUST AIR STREAM)	91.2 / 75.4	91.2 / 75.4
SUMMER SUPPLY (SUPPLY AIR STREAM)	80.2 / 65.8	80.2 / 65.8
SUMMER OUTDOOR AIR (OUTDOOR AIR STREAM)	95 / 78	95 / 78
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	0.8 / 15.0	0.8 / 15.0
LINES & FILTERS:		
CONDENSATE DRAIN LINE SIZE (IN)	1"	1"
RETURN AIR FILTER TYPE	2" MERV 8	2" MERV 8
NOTES:		
1. PROVIDE THE FOLLOWING OPTIONS:		
• 100% OUTSIDE AIR UNIT		
• DIRTY FILTER SENSOR		
• EXTRA DRIVE BELT AND FILTER SET		
• DISCONNECT SWITCH		
• FREEZE-STAT		
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS:		
• TRIPLE POINT EXTERNAL POWER CONNECTION AT UNIT.		
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.		
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM		
3. MOTOR STARTER & DISCONNECT SWITCH FOR EACH UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR. EACH UNIT SHALL BE FURNISHED WITH THE UNIT-MOUNTED LOCAL DISCONNECT SWITCH.		
4. UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.		
5. PROVIDE UNIT WITH AIR SIDE ECONOMIZER AND HOT GAS REHEAT.		
6. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.		

PACKAGED NATURAL GAS FIRED ROOFTOP UNIT SCHEDULE			
DESIGNATION	RTU-1	RTU-2	RTU-3
LOCATION	ROOF	ROOF	ROOF
AREA SERVED	GYM	GYM	FITNESS
MANUFACTURER	TEMPMASTER	TEMPMASTER	TEMPMASTER
MODEL	CV25T3DQ2S1ABN47E3	CV25T3DQ2S1ABN47E3	ZJ120S18R2B5BCE3A3
NOMINAL CAPACITY (TONS)	25	25	10
WEIGHT OF UNIT (LBS)	2,485	2,485	1285
SUPPLY DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM
RETURN DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM
OUTSIDE AIR (CFM)	3,450	3,450	960
SUPPLY FAN:			
QUANTITY	1	1	1
TOTAL CFM	10,500	10,500	3,500
CFM FOR EACH FAN	10,500	10,500	3,500
ESP/TSP (IN H ₂ O)	1.5 / -	1.5 / -	1 / -
TYPE	BELT	BELT	BELT
HP FOR EACH FAN	10	10	3
CONTROL	VFD	VFD	VFD
COOLING PERFORMANCE:			
E.A.T (DB / WB)	76.9 / 64	76.9 / 64	76.3 / 63.4
L.A.T (DB / WB)	58.3 / 55.5	58.3 / 55.5	53.6 / 52.5
TOTAL CAPACITY (MBH)	268.1	268.1	110.3
SENSIBLE CAPACITY (MBH)	210.9	210.9	85.9
NUMBER OF COMPRESSORS	2	2	2
NUMBER OF CIRCUITS	2	2	2
NUMBER OF STAGES	4	4	2
REHEAT CAPACITY (MBH)	166.5	166.5	57.3
REHEAT (DB / WB)	72 / 62.4	72 / 62.4	71.8
HEATING PERFORMANCE: NATURAL GAS FURNACE			
E.A.T. / L.A.T. (DB)	62.6 / 91.2	62.6 / 91.2	64.9 / 103.5
HEATING CAPACITY INPUT (MBH)	400	400	180
HEATING CAPACITY OUTPUT (MBH)	324	324	146
INLET PRESSURE (IN WC)	7 - 14	7 - 14	7 - 14
ERV:			
MODEL	CV25T3DQ2S1ABN47E3	CV25T3DQ2S1ABN47E3	ZJ120S18R2B5BCE3A3
WEIGHT OF UNIT (LBS)	1,230	1,230	318
OUTSIDE AIR CFM	3,450	3,450	960
SUMMER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)			
RETURN (EXHAUST AIR STREAM)	75 / 62	75 / 62	75 / 62
EXHAUST (EXHAUST AIR STREAM)	80.4 / 67.61	80.4 / 67.61	79.2 / 66.4
SUPPLY (SUPPLY AIR STREAM)	76.9 / 64	76.9 / 64	76.3 / 63.4
OUTDOOR (OUTDOOR AIR STREAM)	95 / 78	95 / 78	95 / 78
WINTER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)			
RETURN (EXHAUST AIR STREAM)	70	70	70
EXHAUST (EXHAUST AIR STREAM)	49	49	53.9
SUPPLY (SUPPLY AIR STREAM)	62.6	62.6	64.9
OUTDOOR (OUTDOOR AIR STREAM)	0 / 0	0 / 0	0 / 0
LINES & FILTERS:			
CONDENSATE DRAIN LINE SIZE (IN)	1	1	1
RETURN AIR FILTER TYPE	ANGLE FILTER 4" MERV 13	ANGLE FILTER 4" MERV 13	4" PLEATED MERV 13
QUANTITY AND SIZE	(9) 16x25	(9) 16x25	(4) 24x20
EFFICIENCY:			
EER	10	10	12
IEER	14.2	14.2	15
FURNACE EFFICIENCY	81%	81%	81%
ELECTRICAL DATA - RTU			
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	143.7 / 175	143.7 / 175	44.9 / 50
ELECTRICAL DATA - ERV			
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	23.5 / 25	23.5 / 25	8.3 / 10
NOTES:			
1. PROVIDE RTU-1, RTU-2, RTU-3 WITH DUCT MOUNTED SMOKE DETECTORS.			
2. PROVIDE RTU-1, RTU-2, RTU-3 WITH INSULATED ROOF CURB WITH VIBRATION ISOLATION RAIL. ROOF CURB SHALL BE RETURN PLENUM.			
3. PROVIDE UNITS WITH DISCONNECT SWITCH. ALL OUTDOOR UNITS SHALL BE PROVIDED WITH RATED DISCONNECT SWITCH.			
4. PROVIDE RTU-1, RTU-2, RTU-3 WITH AIRSIDE ECONOMIZER AND POWER EXHAUST.			
5. PROVIDE RTU-1, RTU-2, RTU-3 WITH HOT GAS REHEAT.			
6. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:			
• HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.			
• 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.			
• FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.			
• UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.			
• PROVIDE 4" FIELD INSTALLED FILTER SECTION WITH HINGED ACCESS DOOR AND PROVIDE MERV 10 FILTERS.			
7. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:			
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.			
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.			
• SINGLE POINT EXTERNAL POWER CONNECTION AT BOTH RTU AND ERV. UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFDS WITH H-O-A.			
8. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.			
9. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.			

ROOFTOP UNIT SCHEDULE				
DESIGNATION	RTU-4	RTU-5	RTU-6	RTU-7
LOCATION	ROOF	ROOF	ROOF	ROOF
AREA SERVED	2ND FLOOR COMMON AREA	MULTIPURPOSE 202	MULTIPURPOSE 202	MULTIPURPOSE 203
MANUFACTURER	VTS	VTS	VTS	VTS
MODEL	AVS030	AVS020	AVS020	AVS040
NOMINAL CAPACITY (TONS)	-	-	-	-
WEIGHT OF UNIT (LBS)	1,991	1,238	1,238	1,924
SUPPLY DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM	BOTTOM
RETURN DUCT CONNECTION	BOTTOM	BOTTOM	BOTTOM	BOTTOM
OUTSIDE AIR (CFM)	1,680	0	0	0
SUPPLY FAN:				
QUANTITY	1	1	1	1
TOTAL CFM	2,680	1,800	1,800	2,400
CFM FOR EACH FAN	2,680	1,800	1,800	2,400
ESP/TSP (IN H ₂ O)	1 / 2.8	1 / 2.23	1 / 2.23	1 / 2.05
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
HP FOR EACH FAN	2	1.5	1.5	3
CONTROL	VFD	VFD	VFD	VFD
RETURN FAN:				
QUANTITY	1	1	1	1
TOTAL CFM	2,680	1,800	1,800	2,400
CFM FOR EACH FAN	2,680	1,800	1,800	2,400
ESP/TSP (IN H ₂ O)	1 / 2.3	1 / 1.73	1 / 1.73	1 / 1.8
TYPE	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM	DIRECT DRIVE PLENUM
HP FOR EACH FAN	2	1.5	1.5	2
CONTROL	VFD	VFD	VFD	VFD
COOLING PERFORMANCE:				
E.A.T (DB / WB)	78.5 / 64.7	72.4 / 60.9	73.7 / 61.9	73.5 / 61.3
L.A.T (DB / WB)	49 / 49	52.2 /	53.1 /	50.9 / 50
TOTAL CAPACITY (MBH)	120.3	57.2	61	75.1
SENSIBLE CAPACITY (MBH)	86.9	41.1	41.7	59.5
REHEAT CAPACITY (MBH)	76.2	44.3	42.6	62.5
REHEAT (DB / WB)	75 / 59.6	75	75	75
HEATING PERFORMANCE:				
E.A.T. / L.A.T. (DB)	61.6 / 80	68 / 80	68 / 80	68 / 80
HEATING CAPACITY OUTPUT (MBH)	54.5	23.9	23.9	31.8
SUMMER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)				
RETURN (EXHAUST AIR STREAM)	77 / 63.5			
EXHAUST (EXHAUST AIR STREAM)	92 / 76.1	N/A	N/A	N/A
SUPPLY (SUPPLY AIR STREAM)	79.4 / 65.5			
OUTDOOR (OUTDOOR AIR STREAM)	95 / 78			
WINTER ENTHALPY WHEEL PERFORMANCE (VALUES IN °F DB/WB)				
RETURN (EXHAUST AIR STREAM)	68 / 67			
EXHAUST (EXHAUST AIR STREAM)	10.6 / 10.6	N/A	N/A	N/A
SUPPLY (SUPPLY AIR STREAM)	57.7 / 57.7			
OUTDOOR (OUTDOOR AIR STREAM)	0 / 0			
LINES & FILTERS:				
CONDENSATE DRAIN LINE SIZE (IN)	1	1	1	1
RETURN AIR FILTER TYPE	2" MERV 8	2" MERV 8	2" MERV 8	2" MERV 8
QUANTITY AND SIZE	(3) 15.5x24.5	(1) 19.5x19.5, (1) 19.5x23.5	(1) 19.5x19.5, (1) 19.5x23.5	(6) 14.25x17.35
ELECTRICAL DATA - SINGLE POINT POWER CONNECTION:				
VOLTS / Ø / Hz				
MCA / MOCP (AMPS)	N/A	N/A	N/A	N/A
ELECTRICAL DATA - ENERGY WHEEL:				
VOLTS / Ø / Hz	208 / 3 / 60			
MCA / MOCP (AMPS)	0.8 / 15	N/A	N/A	N/A
ELECTRICAL DATA - SUPPLY FAN:				
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	8.3 / 15	5.6 / 15	5.6 / 15	11.3 / 20
ELECTRICAL DATA - EXHAUST FAN:				
VOLTS / Ø / Hz	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60	208 / 3 / 60
MCA / MOCP (AMPS)	8.3 / 15	5.6 / 15	5.6 / 15	11.3 / 20
NOTES:				
1. PROVIDE RTU-4 AND RTU-7 WITH DUCT MOUNTED SMOKE DETECTORS.				
2. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH INSULATED ROOF CURB WITH VIBRATION ISOLATION RAIL. ROOF CURB SHALL BE RETURN PLENUM.				
3. PROVIDE UNITS WITH DISCONNECT SWITCH. ALL OUTDOOR UNITS SHALL BE PROVIDED WITH RATED DISCONNECT SWITCH.				
4. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH AIRSIDE ECONOMIZER.				
5. PROVIDE RTU-4, RTU-5, RTU-6, AND RTU-7 WITH HOT GAS REHEAT.				
6. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:				
• HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.				
• 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.				
• FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.				
• UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.				
7. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:				
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.				
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.				
• SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT. UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFDS WITH H-O-A. RTU-4, 5, 6, 7 SHALL HAVE MULTIPLE POINT EXTERNAL POWER CONNECTIONS AT UNIT.				
8. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.				
9. INTERNAL VFDS SHALL BE RATED FOR TEMPERATURE RANGING FROM 0°F TO 100°F.				

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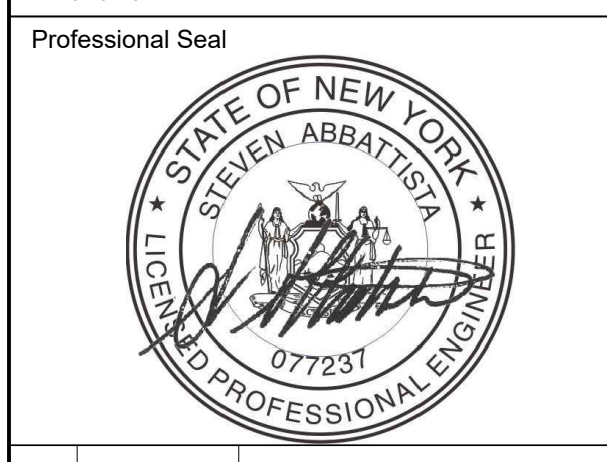
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CONSTRUCTION DOCUMENTS				
9	12/13/2024	PERMIT ADDENDUM		
8	10/09/2024	ISSUED FOR CONSTRUCTION		
7	10/09/2024	CONFIRMED SET		
4	06/05/2024	ISSUED FOR BID		
3	01/16/2024	ISSUED FOR PERMIT		
2	06/01/2020	DESIGN DEVELOPMENT		
1	03/31/2020	50% DESIGN DEVELOPMENT		
No.	Date	Issue		

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MECHANICAL EQUIPMENT NOTES & SCHEDULES

Job No. NKGD0207.00 Date 03/01/2024
 Scale AS NOTED Drawn / Checked HM / RG
 Sheet Number **M-602**