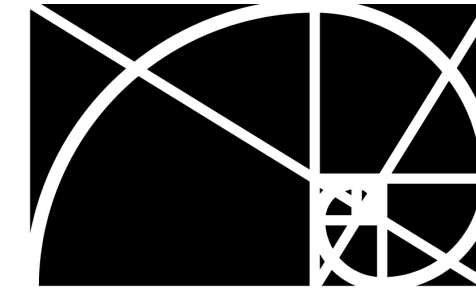


Carolina Charter Academy Exp.

Angier, North Carolina

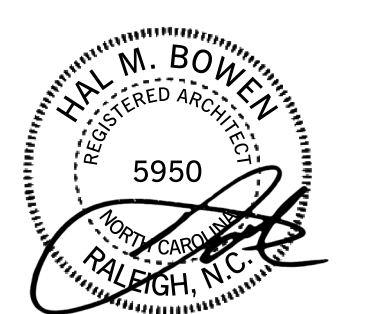


RATIO

PACKAGE

100% Construction Documents

SEAL | DATE



OWNER

HIGHMARK

746 East Winchester Street
Suite 150
Murray, Utah 84107
801-256-9550

ARCHITECT

RATIO

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Raleigh, North Carolina 27601
(919) 821-0805

STRUCTURAL ENGINEER

Lynch Mykins Structural Engineers

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Raleigh, North Carolina 27603
919-782-1833

CIVIL ENGINEER

Timmons Group

5410 Trinity Road
Suite 102
Raleigh, North Carolina 27607
919-866-4938

CONTRACTOR

Swinerton

5 West Hargett Street
Suite 800, Raleigh, NC 27601
(919) 867-4780

VOLUME

1

RATIO PROJECT NO.

20408.000

DATE

2/24/2021

PROJECT ADDRESS

8529 Highway 55
Angier, North Carolina
27501

VOLUME

1

SET NO.

2/24/2021

DATE

PACKAGE

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RATIO PROJECT NO.

20408.000

PROJECT NAME

Carolina Charter Academy Exp.



GENERAL LIFE SAFETY PLAN NOTES

- A. REFER TO SHEET G-104 FOR CODE SUMMARY.
- B. REFER TO DOOR SCHEDULE FOR REQUIRED DOOR RATING.
- C. REFER TO INTERIOR PARTITION TYPES AND FLOOR PLAN FOR ADDITIONAL PARTITION REQUIREMENTS INCLUDING WALL HEIGHT, UL DESIGN, AND FIRE RATINGS.
- D. REFER TO C-03 FOR BUILDING ADJACENCIES AND PROPERTY LINES.

LIFE SAFETY PLAN LEGEND

- RM NAME** — ROOM NAME, AREA & OCCUPANT CAPACITY
- 150 SF** — EXIT DIRECTION ARROW
- 20** — EXIT POPULATION
- 45** — EXIT CAPACITY [POPULATION]
- 120** — PATH OF TRAVEL
- — FIRE RATED WALL
- 2-2-2-** — RATING REQUIRED...30-MIN, 1-HR, 2-HR, ETC.
- *35*35*35*** — SMOKE BARRIER
- — RATING IF REQUIRED...1-HR, 2-HR, ETC.
- — FIRE RATED WALL
- — PATTERN INDICATES CODE REQUIRED SEPARATION AS NOTED
- — FIRE SEPARATION AND OTHER ANNOTATION SO NOTED
- 1-HR** — FIRE RATED CEILING, RATING AS NOTED...1-HR, 2-HR, ETC.

OCCUPANT LOAD SCHEDULE

FLOOR LEVEL	OCCUPANT LOAD
FIRST FLOOR	1278
SECOND FLOOR	755
	2033

TRAVEL DISTANCE SCHEDULE

EXIT ROUTE	DISTANCE
TRAVEL DIST. C	125' - 9"
TRAVEL DIST. D	65' - 7"
TRAVEL DIST. E	77' - 3"
TRAVEL DIST. A	114' - 8"
TRAVEL DIST. B	226' - 5"

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SHEET ISSUE

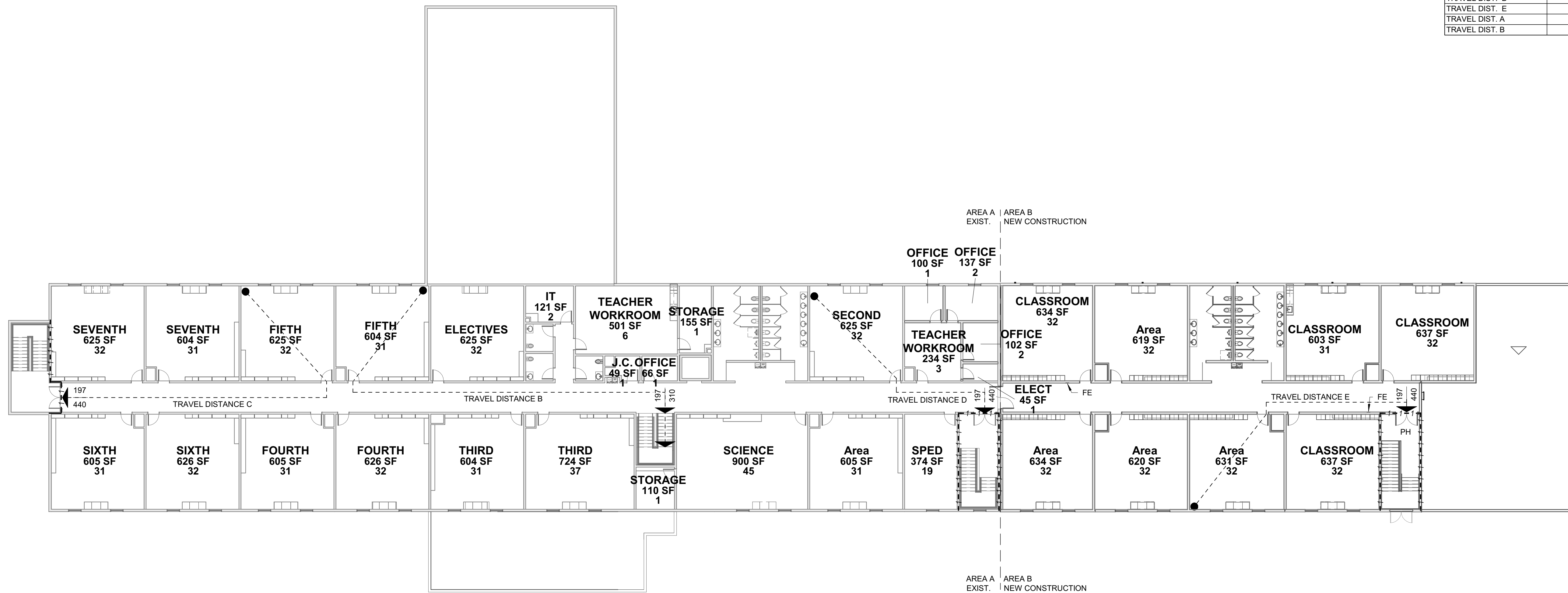
NO.	DESCRIPTION	DATE
1	100% Construction Documents	2/24/2021

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PROJECT NO. 20408.000

SHEET TITLE
LIFE SAFETY PLANS AND CODE SUMMARY

SHEET NUMBER
G-104



100% CONSTRUCTION DOCUMENTS

CAROLINA CHARTER ACADEMY ADDITION

8529 S NC 55 HWY ANGIER, NC

CAROLINA
CHARTER
ACADEMY
ADDITION
8529 S NC 55 HWY,
ANGIER NC 27501

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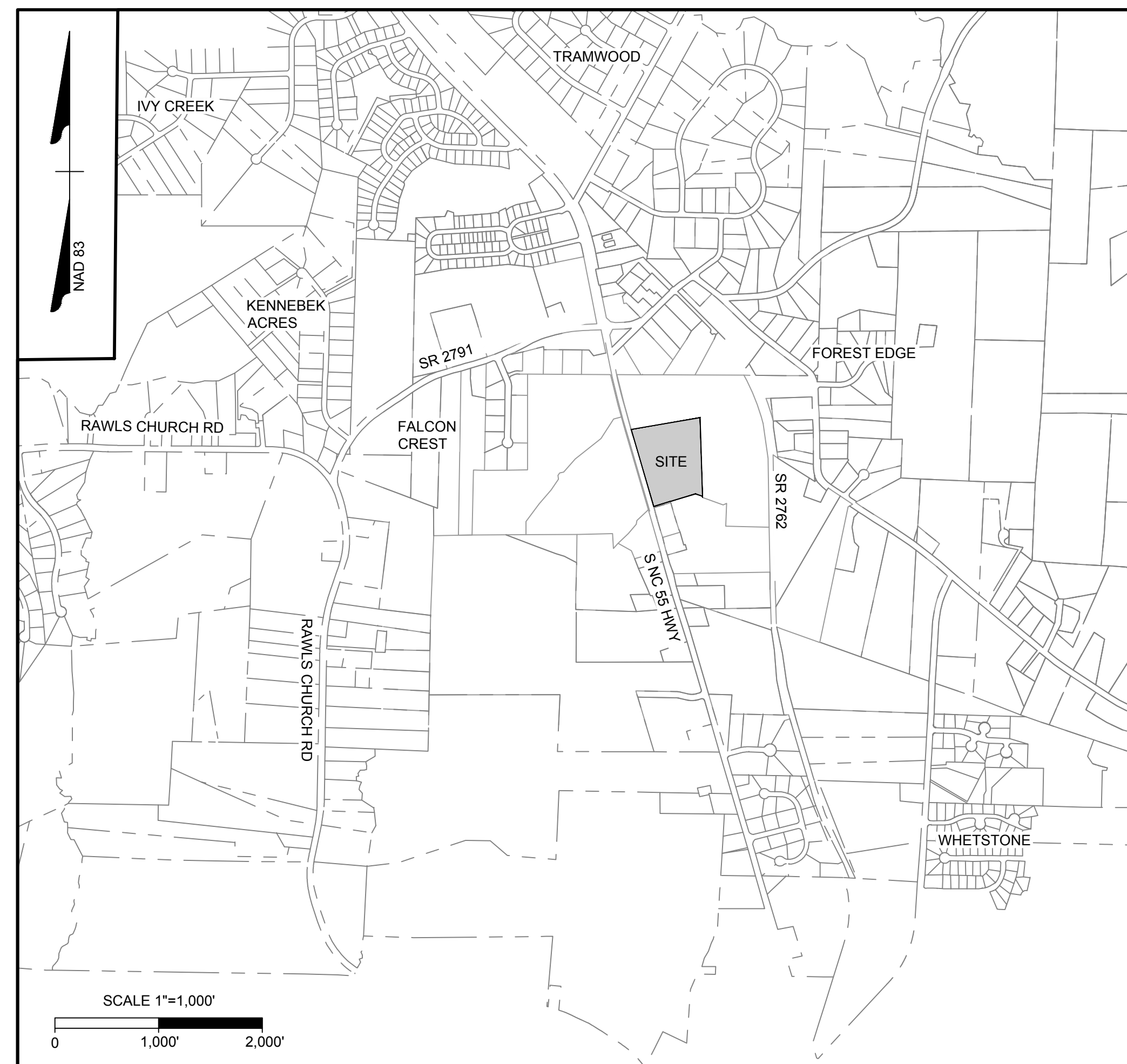
Civil Engineer
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919-866-4938

SHEET LIST

SHEET NUMBER	SHEET TITLE
C0.0	COVER SHEET
C1.0	EXISTING CONDITIONS & DEMOLITION PLAN
C3.0	SITE PLAN
C4.0	GRADING & DRAINAGE PLAN
C5.0	NOTES & DETAILS

SITE DATA

PROJECT:	CAROLINA CHARTER ACADEMY
PROJECT #:	42087
PROJECT ADDRESS:	8529 S NC 55 HWY ANGIER, NC
PIN:	0674690126
CURRENT ZONING:	RA-30
TOTAL TRACT AREA:	10 ACRES
DISTURBED AREA:	0.95 ACRES
PARKING: SCHOOLS (PUBLIC AND PRIVATE ELEMENTARY AND MIDDLE) - 2 SPACE PER CLASSROOM	
TOTAL NUMBER OF CLASSROOMS:	
EXISTING:	27 CLASSROOMS (K-8TH GRADE)
PROPOSED:	16 CLASSROOMS (K-8TH GRADE)
PARKING SPACES REQUIRED:	
EXISTING:	54 PARKING SPACES
PROPOSED ADDITION:	32 PARKING SPACES
PARKING SPACES PROVIDED:	
EXISTING:	56 PARKING SPACES
PROPOSED:	30 PARKING SPACES
H/C SPACES REQ'D:	4 (WITH 1 BEING VAN ACCESSIBLE)
H/C SPACES PROVIDED:	4 (WITH 1 BEING VAN ACCESSIBLE)
TOTAL PARKING SPACES PROVIDED:	86 SPACES (INCLUDING 4 H/C)
IMPERVIOUS:	
EXISTING IMPERVIOUS:	2.96 ACRES
PROPOSED IMPERVIOUS:	0.41 ACRES
TOTAL IMPERVIOUS:	2.96 AC (EXISTING) - 0.04 AC (DEMO) +0.41 AC (PROPOSED) = 3.33 AC
*THE EXISTING STORMWATER CONTROL MEASURE WAS DESIGNED TO TREAT 3.54 ACRES OF IMPERVIOUS AREA	



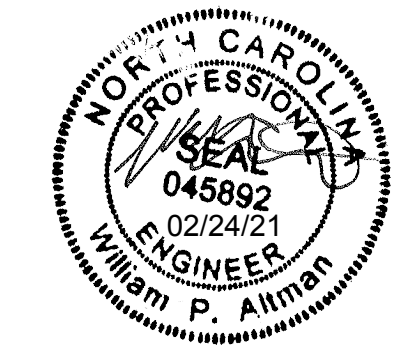
VICINITY MAP

OWNER: RM CAROLINA NC LLC
810 7TH AVE FL 27
NEW YORK, NY 10019-5818

ENGINEER: WILL ALTMAN, PE
TIMMONS GROUP
5410 TRINITY ROAD; SUITE 102
RALEIGH, NC 27607
PHONE: 919-866-4938
FAX: 919-859-5663
EMAIL: WILLIAM.ALTMAN@TIMMONS.COM

ARCHITECT: BRENT COVINGTON
RATIO DESIGN
227 FAYETTEVILLE STREET; SUITE 301
RALEIGH, NC 27601
919-256-4994
EMAIL: BCOVINGTON@RATIODESIGN.COM

SEAL | DATE



SHEET ISSUE

1	Schematic Design	11/24/2020
2	Town Of Angier-TRC	1/06/2021
3	Town Of Angier-TRC	1/28/2021
4	100% Construction Documents	2/24/2021



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PROJECT NO. 20408.000

SHEET TITLE
COVER SHEET

SHEET NUMBER

C0.0

CAROLINA CHARTER ACADEMY ADDITION

8529 S NC 55 HWY,
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919-821-0805


Structural Engineer
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919-782-1833

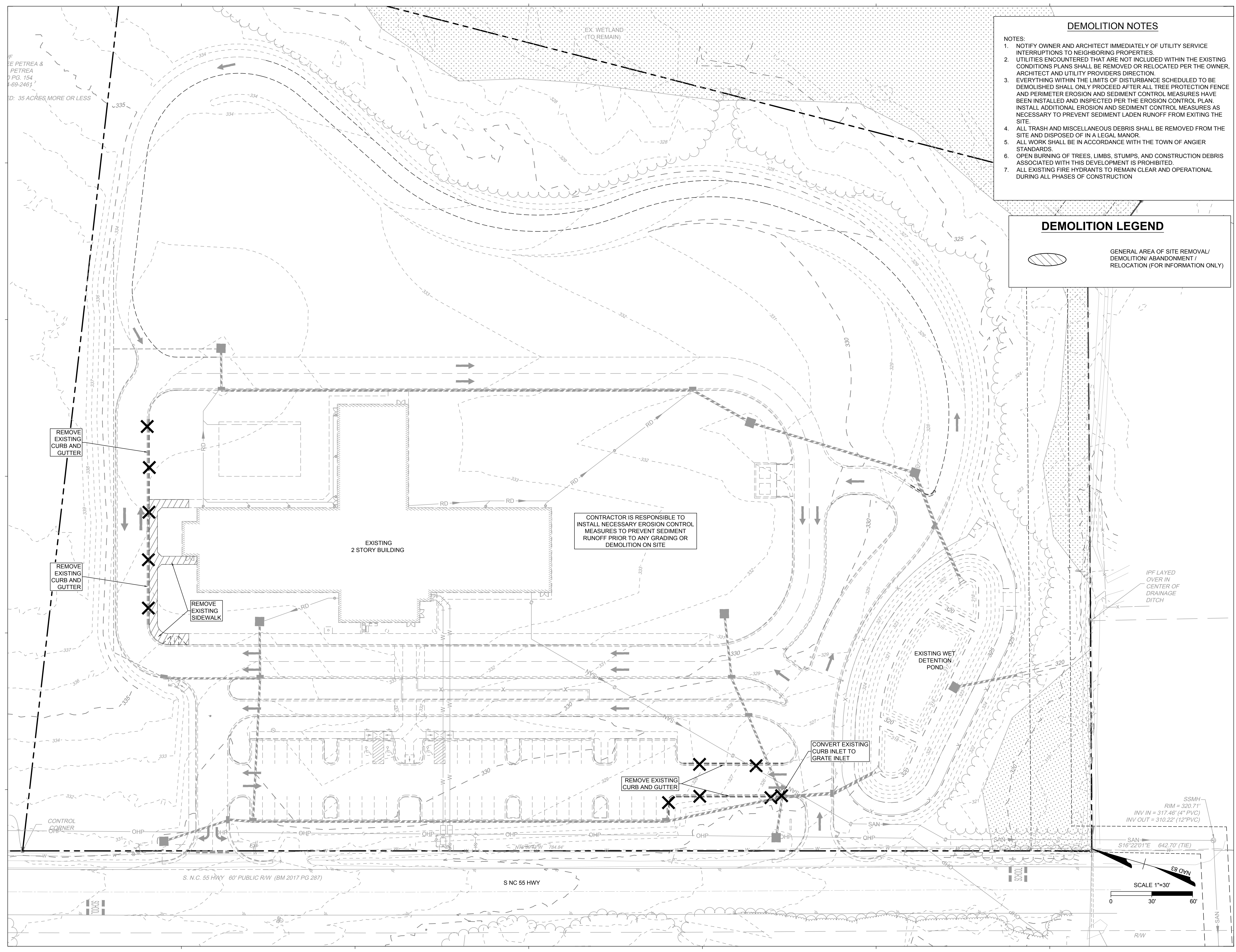
Civil Engineer
Timmons Group
5410 Trinity Road
Suite 102
Raleigh, North Carolina 27607
919-866-4938

DEMOLITION NOTES

- NOTES:
1. NOTIFY OWNER AND ARCHITECT IMMEDIATELY OF UTILITY SERVICE INTERRUPTIONS TO NEIGHBORING PROPERTIES.
 2. UTILITIES ENCOUNTERED THAT ARE NOT INCLUDED WITHIN THE EXISTING CONDITIONS PLANS SHALL BE REMOVED OR RELOCATED PER THE OWNER, ARCHITECT AND UTILITY PROVIDERS DIRECTION.
 3. EVERYTHING WITHIN THE LIMITS OF DISTURBANCE SCHEDULED TO BE DEMOLISHED SHALL ONLY PROCEED AFTER ALL TREE PROTECTION FENCE AND PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND INSPECTED PER THE EROSION CONTROL PLAN. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT LADEN RUNOFF FROM EXITING THE SITE.
 4. ALL TRASH AND MISCELLANEOUS DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANOR.
 5. ALL WORK SHALL BE IN ACCORDANCE WITH THE TOWN OF ANGIER STANDARDS.
 6. OPEN BURNING OF TREES, LIMBS, STUMPS, AND CONSTRUCTION DEBRIS ASSOCIATED WITH THIS DEVELOPMENT IS PROHIBITED.
 7. ALL EXISTING FIRE HYDRANTS TO REMAIN CLEAR AND OPERATIONAL DURING ALL PHASES OF CONSTRUCTION

DEMOLITION LEGEND

 GENERAL AREA OF SITE REMOVAL/ DEMOLITION/ ABANDONMENT / RELOCATION (FOR INFORMATION ONLY)



SEAL | DATE



SHEET ISSUE		
1	Schematic Design	11/24/2020
2	Town Of Angier-TRC	1/06/2021
3	Town Of Angier-TRC	1/28/2021
4	100% Construction Documents	2/24/2021

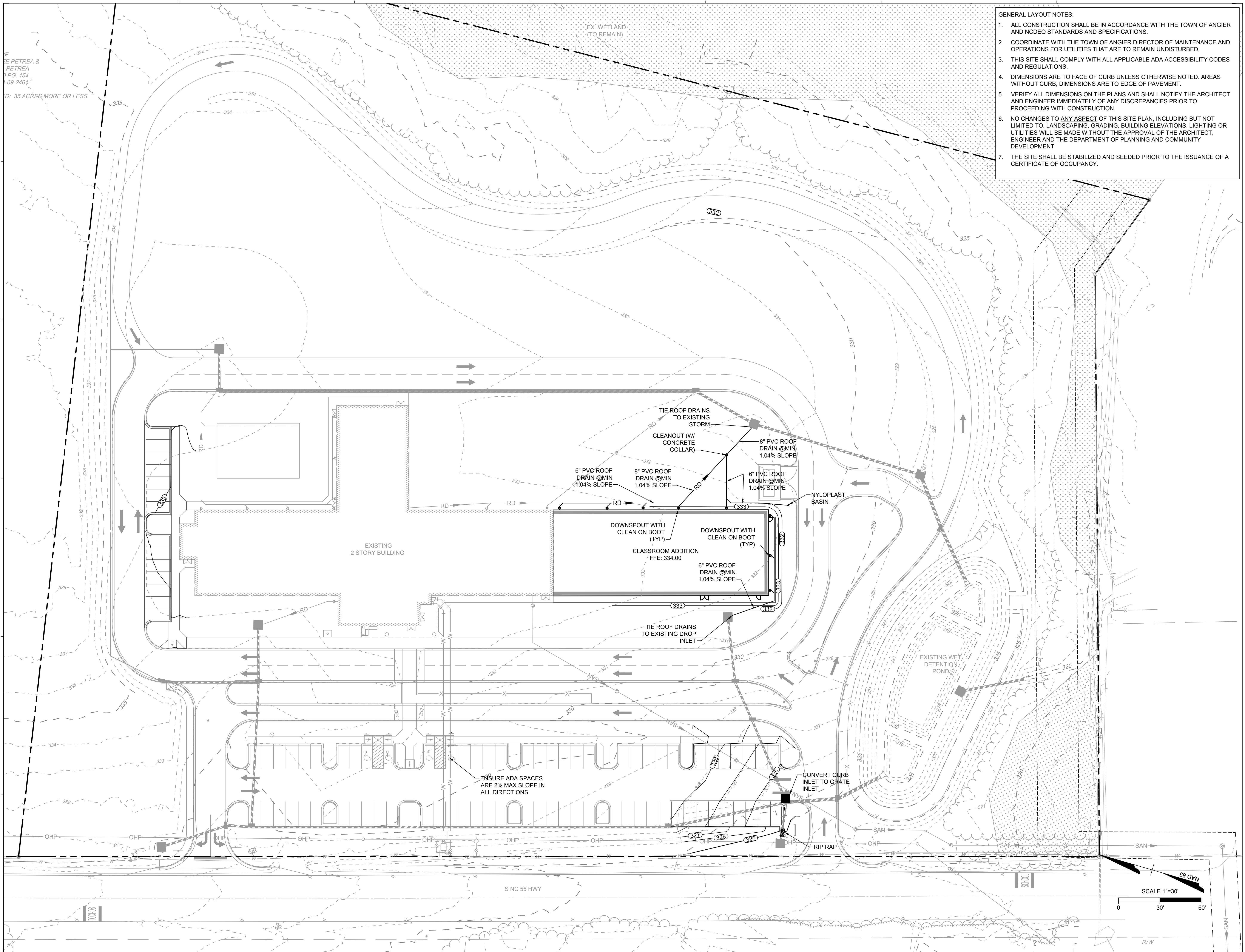
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PROJECT NO. 20408.000

SHEET TITLE
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NUMBER
C1.0



- GENERAL LAYOUT NOTES:
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ANGIER AND NCDEQ STANDARDS AND SPECIFICATIONS.
 2. COORDINATE WITH THE TOWN OF ANGIER DIRECTOR OF MAINTENANCE AND OPERATIONS FOR UTILITIES THAT ARE TO REMAIN UNDISTURBED.
 3. THIS SITE SHALL COMPLY WITH ALL APPLICABLE ADA ACCESSIBILITY CODES AND REGULATIONS.
 4. DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. AREAS WITHOUT CURB, DIMENSIONS ARE TO EDGE OF PAVEMENT.
 5. VERIFY ALL DIMENSIONS ON THE PLANS AND SHALL NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.
 6. NO CHANGES TO ANY ASPECT OF THIS SITE PLAN, INCLUDING BUT NOT LIMITED TO, LANDSCAPING, GRADING, BUILDING ELEVATIONS, LIGHTING OR UTILITIES WILL BE MADE WITHOUT THE APPROVAL OF THE ARCHITECT, ENGINEER AND THE DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT.
 7. THE SITE SHALL BE STABILIZED AND SEEDDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

CAROLINA CHARTER ACADEMY ADDITION

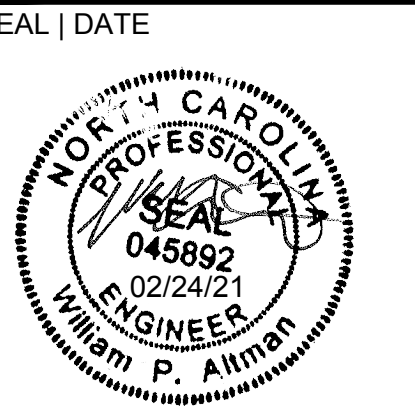
8529 S NC 55 HWY,
ANGIER NC 27501

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SHEET ISSUE

1	Schematic Design	11/24/2020
2	Town Of Angier-TRC	1/06/2021
3	Town Of Angier-TRC	1/28/2021
4	100% Construction Documents	2/24/2021

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PROJECT NO. 20408.000

SHEET TITLE
GRADING & DRAINAGE PLAN

SHEET NUMBER
C4.0

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Angier, North Carolina 27501

Owner
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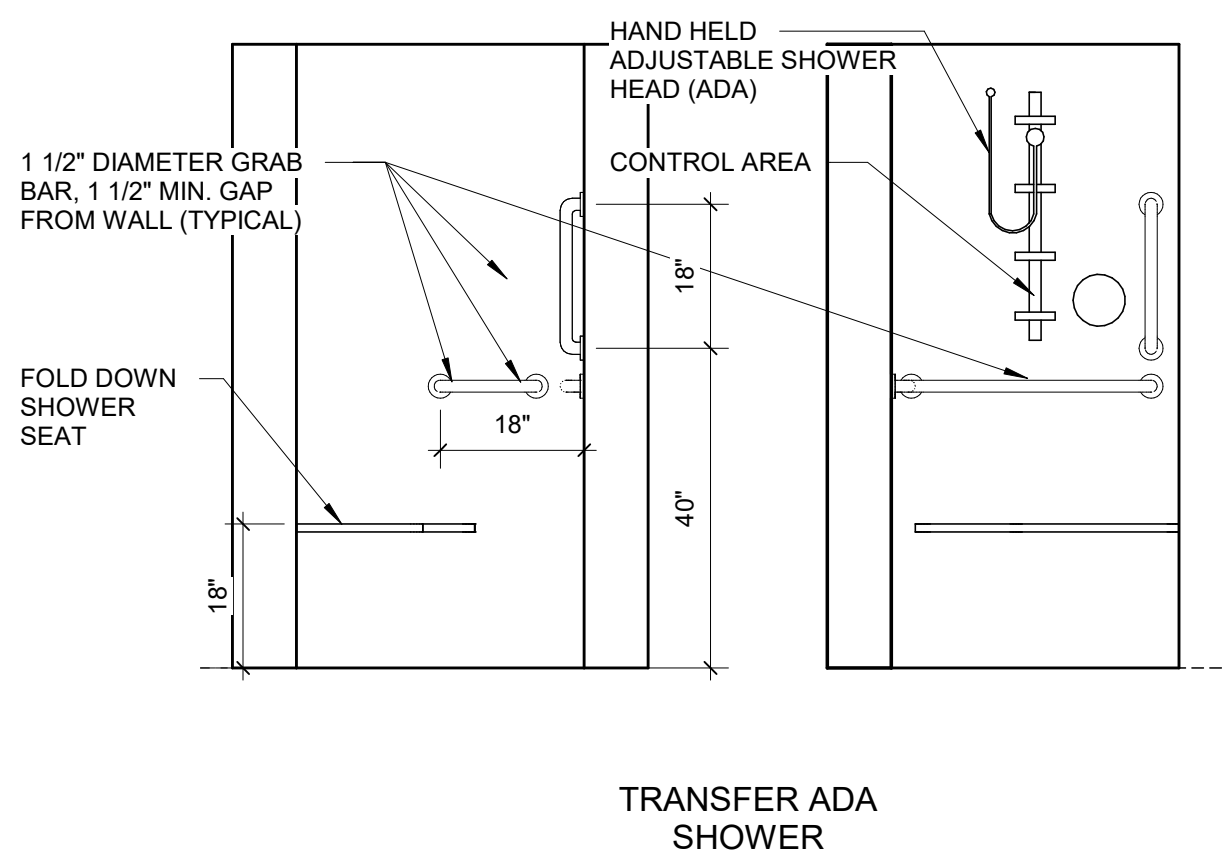
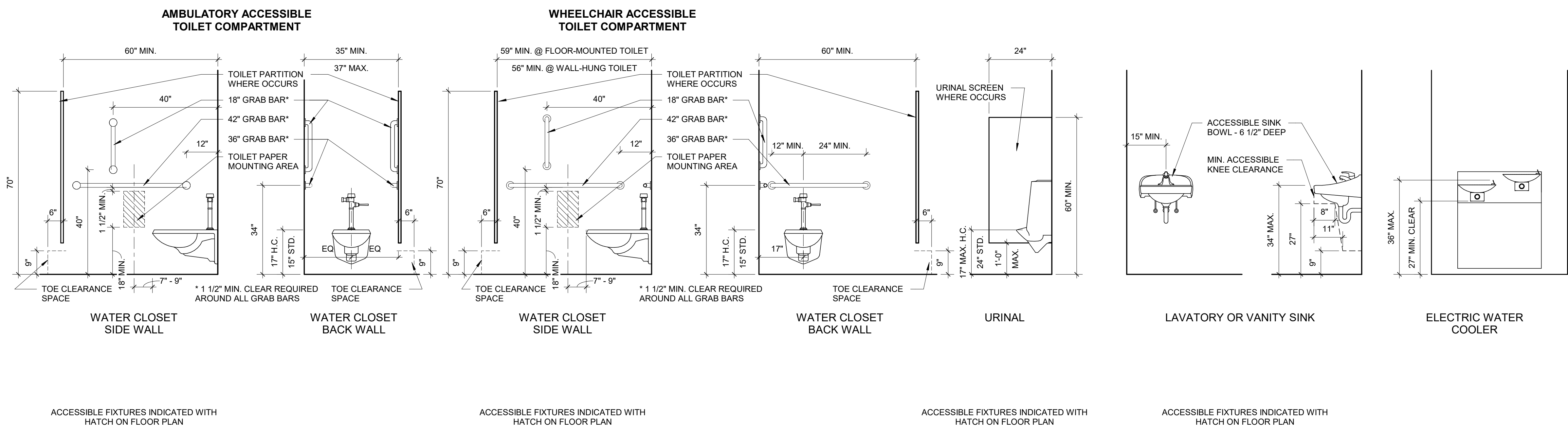
301 North West Street
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ITEM:	MOUNTING HEIGHT:	DIMENSION FROM FINISH FLOOR TO:
PAPER TOWEL DISPENSER/WASTE RECEPTACLE	MAX. 48"	CL OF SLOT
PAPER TOWEL DISPENSER	MAX. 48"	TOP OF HANDLE
RECESSED PAPER TOWEL DISPENSER		COORDINATE WITH B.C. MIRROR
WARM AIR HAND DRYER	MAX. 40"	TOP OF CONTROL
SANITARY NAPKIN/TAMPON VENDOR	MAX. 48"	TOP OF UNIT
SANITARY NAPKIN DISPOSAL	30"	TOP OF UNIT
TOILET PAPER DISPENSER	24" 15" MIN.	BOTTOM OF UNIT
TOILET PAPER HOLDER	25" 15" MIN.	BOTTOM OF UNIT
TOILET TISSUE/SEAT COVER DISPENSER	34"	TOP OF UNIT
TOILET TISSUE/SANITARY NAPKIN DISPOSAL/SEAT COVER DISPENSER	34"	TOP OF UNIT
GRAB BAR	34"	CL OF BAR
SOAP DISPENSER	34"	TOP OF COUNTER SURFACE
JANITOR'S CLOSET SELF	42"	CL OF UNIT
MIRROR @ COUNTER & LAVS	70" 40"	TOP OF SHELF BOTTOM EDGE OF REFLECTIVE SURFACE
COAT HOOK/DOOR BUMPER	48" ADA 60" TYP.	CL OF HOOK
CLOTHES HOOK	54"	TOP OF HOOK
CHANGING STATION	33 1/2" MAX.	TOP OF CHANGING SURFACE
FOLDING UTILITY SHELF	42"	TOP OF SHELF WHEN IN USE
WARM-AIR HAND DRYER	40"	CL OF PUSH BUTTON OR MANUFACTURER'S RECOMMENDATION

STANDARD TOILET ROOM ACCESSORY MOUNTING HEIGHTS
1/4" = 1'-0"



STANDARD-PLUMBING FIXTURE REQUIREMENTS
1/2" = 1'-0"

SEAL | DATE 2/24/2021

CODE CERT. I HEREBY CERTIFY THAT THE BUILDING CODE SUMMARY COMPLETED ON THIS PAGE IS ACCURATE FOR THE TYPE OF BUILDING AND OCCUPANCY INTENDED FOR THIS PROJECT AND THAT THESE PLANS ARE COMPLETE AND COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING REGULATIONS

M. M. BOWEN
REGISTERED ARCHITECT
5950
RALEIGH, N.C.

SHEET ISSUE

1	100% Construction Documents	2/24/2021
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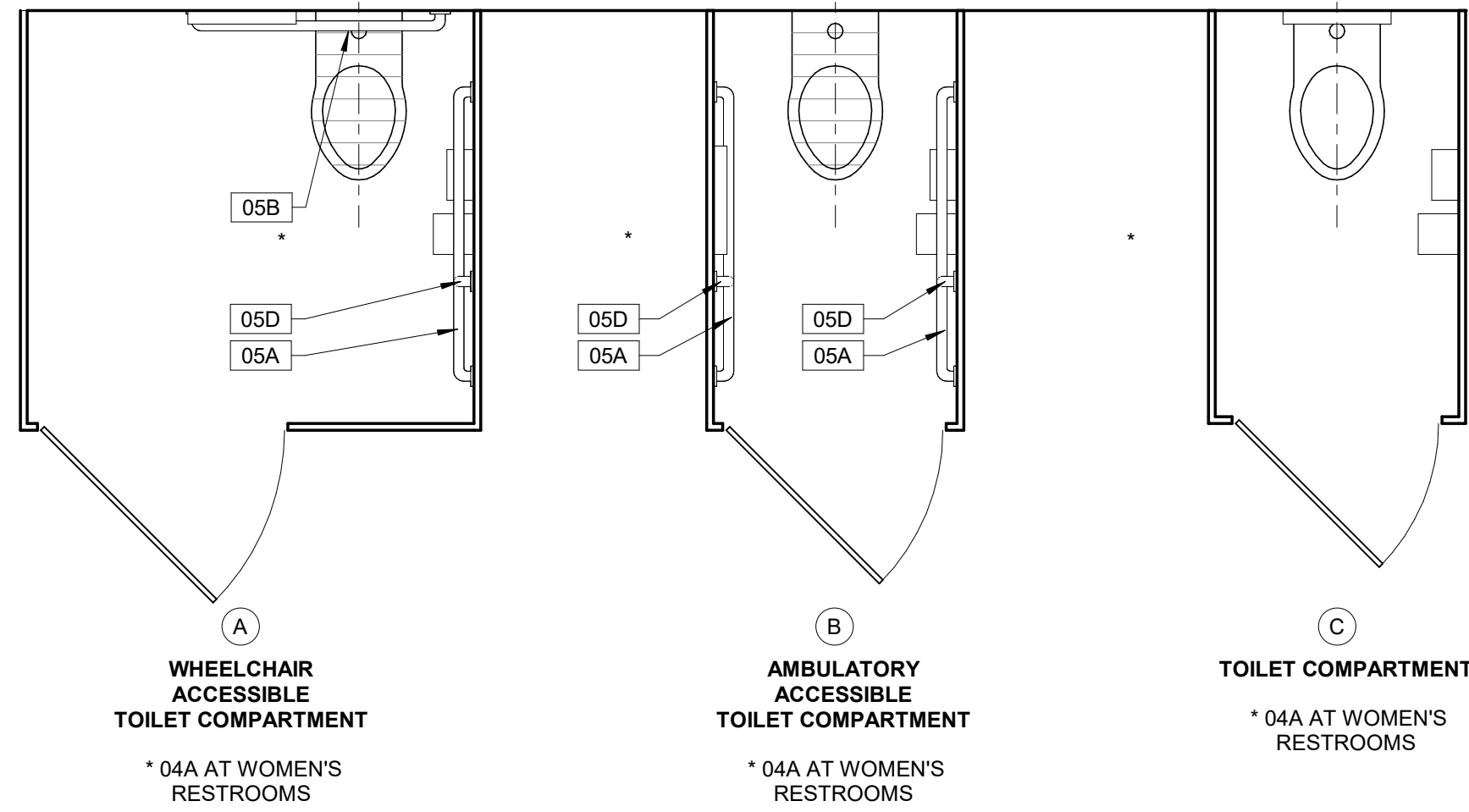
PROJECT NO. 20408.000

SHEET TITLE
GENERAL NOTES, SYMBOLS, AND STANDARD MOUNTING HEIGHTS

SHEET NUMBER
A-002

STANDARD TOILET COMPARTMENT TYPES - TYPICAL ACCESSORIES

REFERENCE STANDARD PLUMBING FIXTURE REQUIREMENTS AND STANDARD TOILET TOOM ACCESSORY MOUNTING HEIGHTS ON A-001 FOR ADDITIONAL INFORMATION UNLESS OTHERWISE NOTED. *ACCESSORIES NOT TAGGED PROVIDED BY OWNER.



INTERIOR PARTITION TYPES

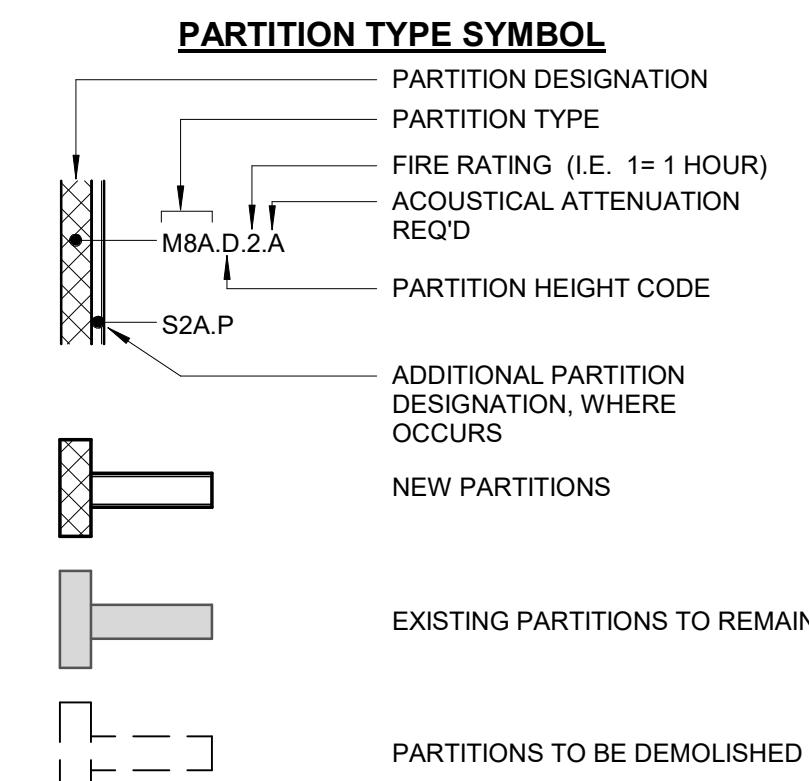
* FIRE RATING AND ACOUSTICAL ATTENUATION WHEN REQUIRED BY PARTITION SYMBOL

W4C	2x4 WOOD STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD ONE SIDE	4 1/8"
W4A	2x4 WOOD STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD EACH SIDE	4 3/4"
W4A.A	2x4 WOOD STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD EACH SIDE * ACOUSTIC ATTN. COMPONENTS STC-44	4 3/4"
W4A.1	2x4 WOOD STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD EACH SIDE * 1 HR RATED U305	4 3/4"
W6C	2x6 WOOD STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD ONE SIDE	6 1/8"
W6A	2x6 WOOD STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD EACH SIDE	6 3/4"
W6A.A	2x6 WOOD STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD EACH SIDE * ACOUSTIC ATTN. COMPONENTS STC-44	6 3/4"
W6A.1	2x6 WOOD STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD EACH SIDE * 1 HR RATED U379	6 3/4"

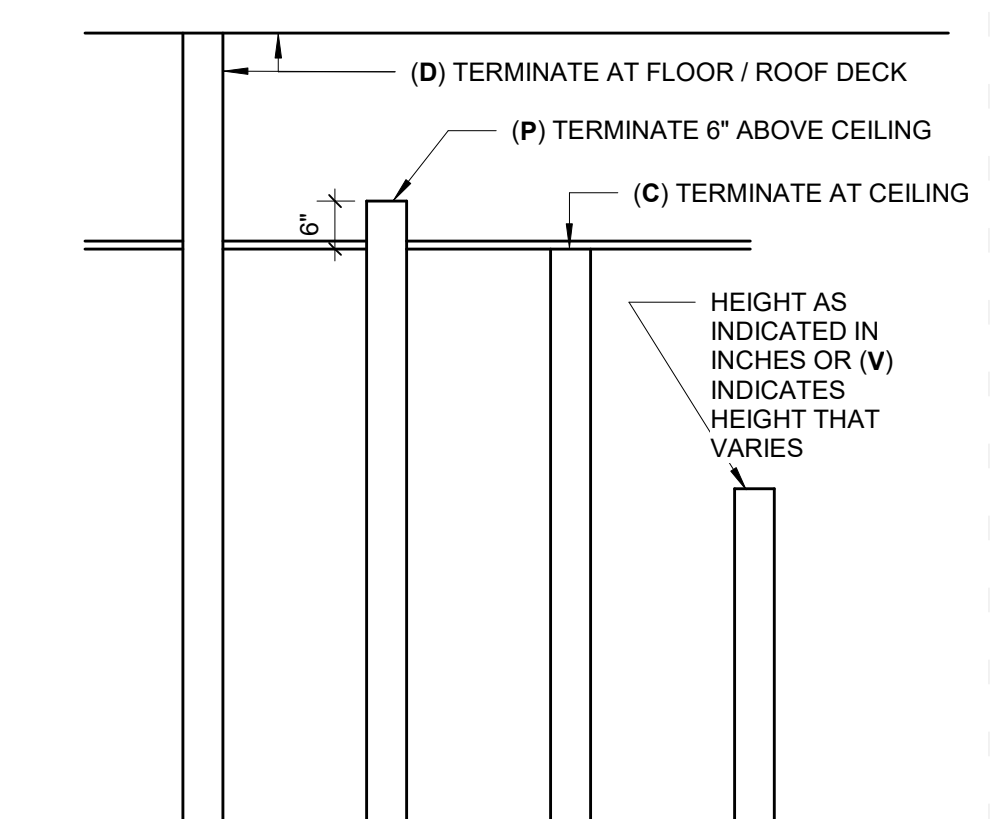
INTERIOR PARTITION NOTES

- A. ALL WALLS ARE TYPE W6A.D UNLESS NOTED OTHERWISE.
- B. PARTITION SYMBOLS APPEAR ON THE 1/8" = 1'-0" SCALE FLOOR PLANS.
- C. REFER TO FINISH AND CEILING PLANS FOR WALL FINISH, WALL BASE, AND CEILING INFORMATION.
- D. REFER TO WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.
- E. PROVIDE MOLD AND MOISTURE RESISTANT GYPSUM BOARD IN ALL ROOMS CONTAINING OPERABLE PLUMBING FIXTURES AND WITHIN 4'-0" OF DRINKING FOUNTAINS / WATER COOLERS, UNLESS NOTED OTHERWISE.
- F. PROVIDE LATERAL BRACING AT 48" ON CENTER FOR NON-STRUCTURAL METAL FRAMED PARTITIONS WHICH EXTEND ABOVE THE CEILING UNLESS NOTED OTHERWISE. LATERAL BRACING NOT REQUIRED FOR PARTITIONS THAT EXTEND TO THE DECK ABOVE UNLESS NOTED OTHERWISE.
- G. PROVIDE FIRE RESISTIVE RATED GYPSUM BOARD AT ALL RATED ASSEMBLIES TO MEET ASSEMBLY REQUIREMENTS.
- H. PROVIDE FIRE RESISTIVE JOINT SYSTEMS EQUAL TO WALL RATING AT ALL PENETRATIONS AND AT HEAD / FLOOR INTERSECTIONS WITH RATED ASSEMBLIES.
- I. PROVIDE ACOUSTICAL SEALANT AT WALL SILL, HEAD, PENETRATIONS AND ADDITIONAL SPECIFIED SOUND ATTENUATION COMPONENTS AT SOUND RATED WALLS.
- J. PROVIDE SPECIFIED TILE BACKER BOARD AT ALL WALLS INDICATED TO HAVE CERAMIC TILE, REFER TO FINISH PLANS.
- K. ISOLATE NON-LOAD-BEARING STUD FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT AS SPECIFIED.
- L. WOOD OR METAL STUD SPACING SHALL BE 16" ON CENTER MAXIMUM UNLESS OTHERWISE REQUIRED BY DELEGATED DESIGN OR NOTED OTHERWISE.

INTERIOR PARTITION LEGEND

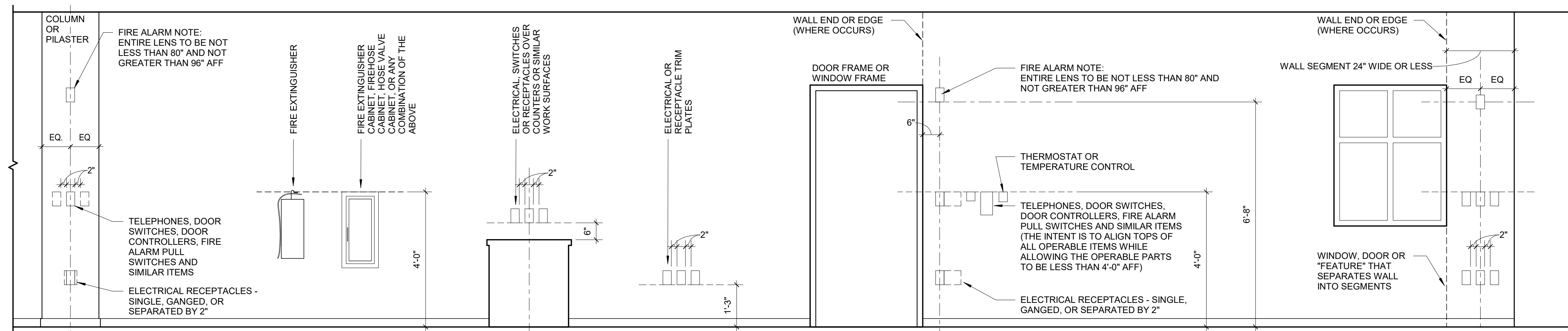


INTERIOR PARTITION HEIGHT CODES



STANDARD-DEVICE MOUNTING GUIDELINES

- NOTES:
- USE THIS DETAIL TO LOCATE DEVICES THAT ARE INDICATED ON THE DRAWINGS BUT NOT LOCATED BY DIMENSION, OR TO LOCATE REQUIRED DEVICES THAT ARE NOT INDICATED ON THE DRAWINGS.
 - ALIGN MULTIPLE DEVICES HORIZONTALLY AND/OR VERTICALLY AS DETAILED.
 - ITEMS OTHER THAN ELECTRICAL RECEPTACLES SHALL BE MOUNTED NEAR DOORWAYS OR INTERSECTING WALLS AS DETAILED SO AS NOT TO INTERFERE WITH THE PLACEMENT OF ART OR FURNITURE - EXCEPT THAT WHERE THE WALL SEGMENT IS LESS THAN 24" WIDE, CENTER THE DEVICES AS DETAILED.



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SEAL | DATE 2/24/2021 | CODE CERT. I HEREBY CERTIFY THAT THE BUILDING CODE SUMMARY COMPLETED ON THIS PAGE IS ACCURATE FOR THE TYPE OF BUILDING AND OCCUPANCY INTENDED FOR THIS PROJECT AND THAT THESE PLANS ARE COMPLETE AND COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING REGULATIONS



SHEET ISSUE	DATE
1 100% Construction Documents	2/24/2021

RATIO
PROJECT NO. 20408.000
SHEET TITLE
INTERIOR PARTITION TYPES AND STANDARD PARTITION DETAILS
SHEET NUMBER
A-003

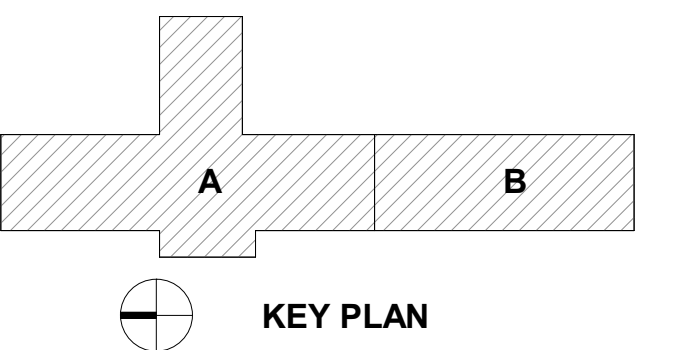
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SHEET ISSUE

NO.	DESCRIPTION	DATE
1	100% Construction Documents	2/24/2021

NO.	DESCRIPTION	DATE
1	100% Construction Documents	2/24/2021

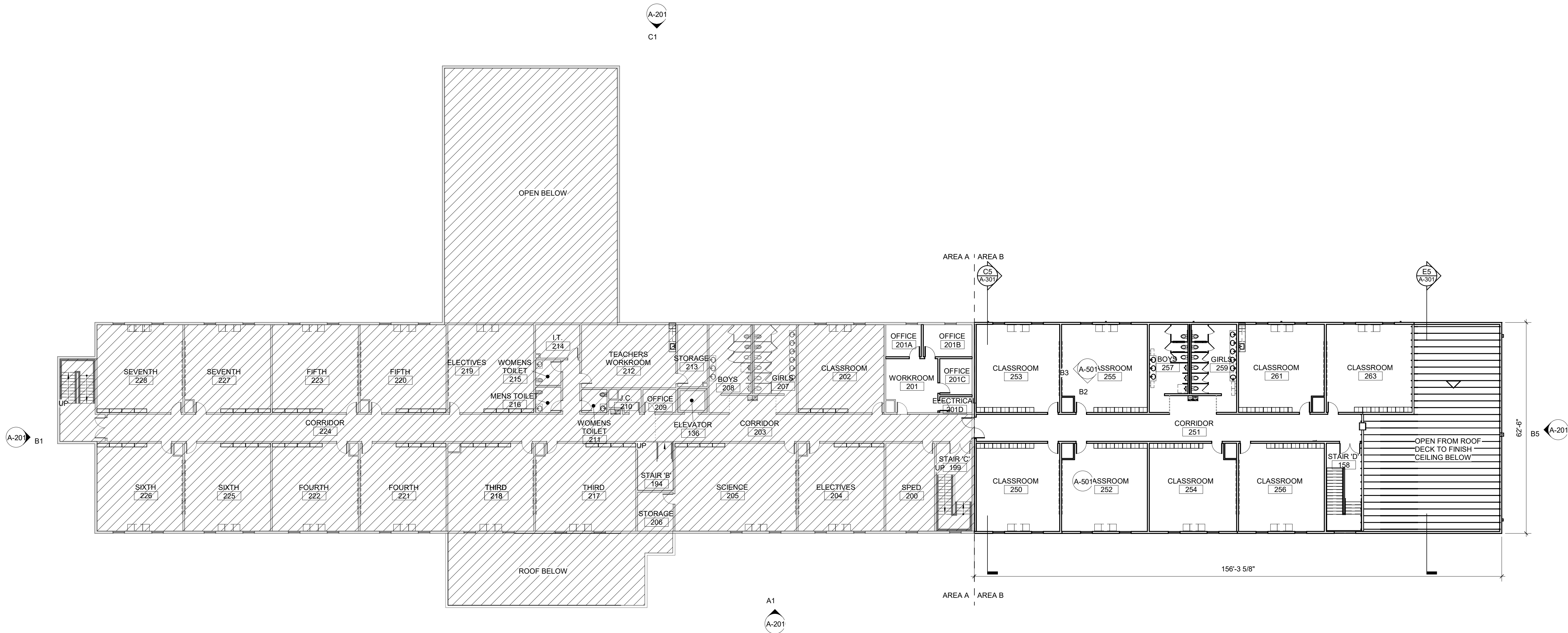
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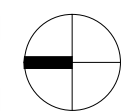
PROJECT NO. 20408.000

SHEET TITLE
SECOND FLOOR PLAN

SHEET NUMBER
A-102



2/24/2021 4:34:59 PM



A1
A-102

SECOND FLOOR PLAN - COMPOSITE

1/16" = 1'-0"

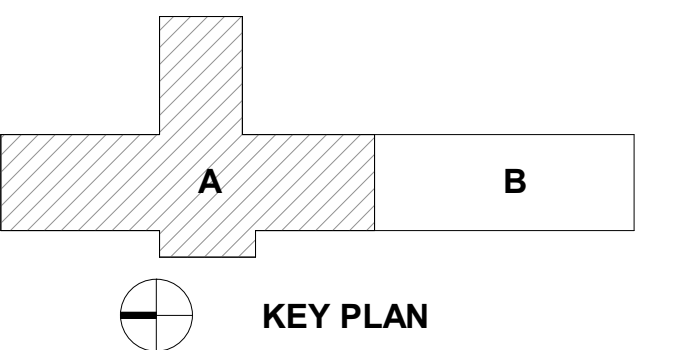
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 Suite 150
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 801-256-9550

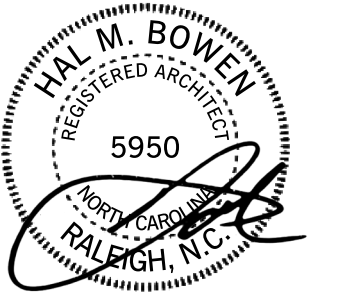
Architect
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 919-821-0805

Structural Engineer
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Civil Engineer
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 5410 Trinity Road
 Suite 102
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SHEET ISSUE	
1	100% Construction Documents 2/24/2021

SHEET TITLE	
SECOND FLOOR PLAN - AREA A	

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PROJECT NO. 20408.000

SHEET NUMBER
A-102A

2/24/2021 4:35:03 PM

A1
 A-102A
 3/32" = 1'-0"

SECOND FLOOR PLAN - AREA A

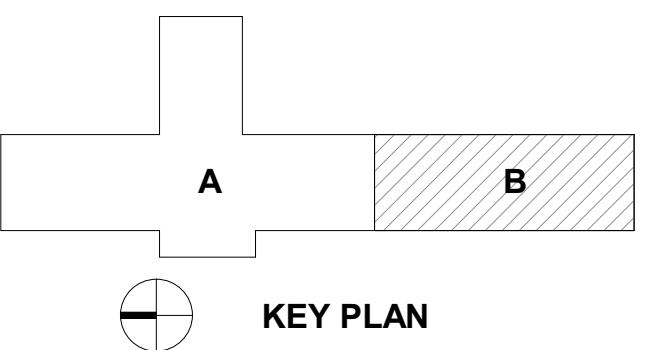
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SHEET ISSUE	DATE
1 100% Construction Documents	2/24/2021

SHEET TITLE	DATE
SECOND FLOOR PLAN - AREA B	2/24/2021

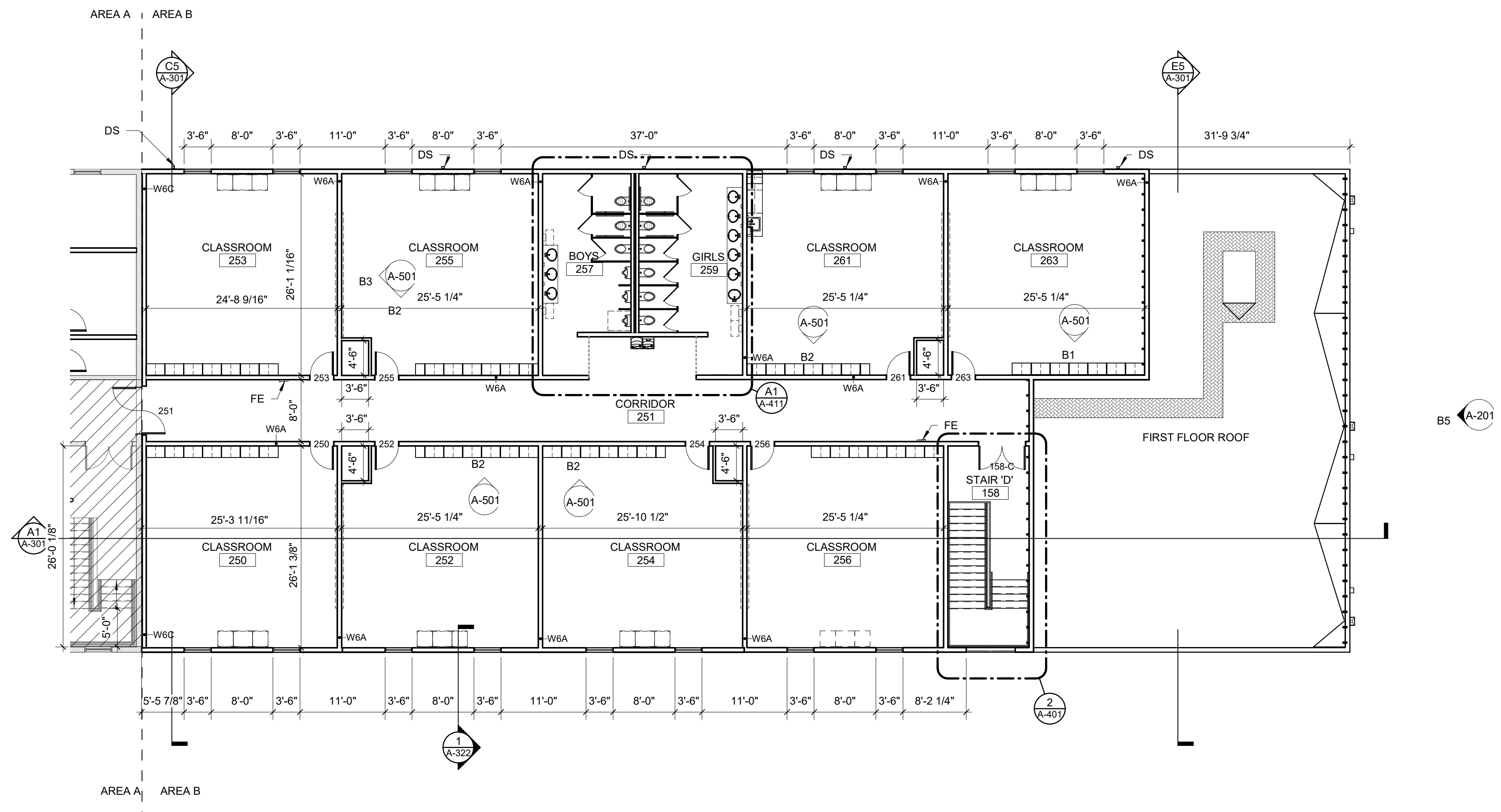
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PROJECT NO. 20408.000
 SHEET NUMBER

SECOND FLOOR PLAN - AREA B

SHEET NUMBER

A-102B



2/24/2021 4:35:06 PM
SECOND FLOOR PLAN - AREA B
 3/32" = 1'-0"

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RCP LEGEND

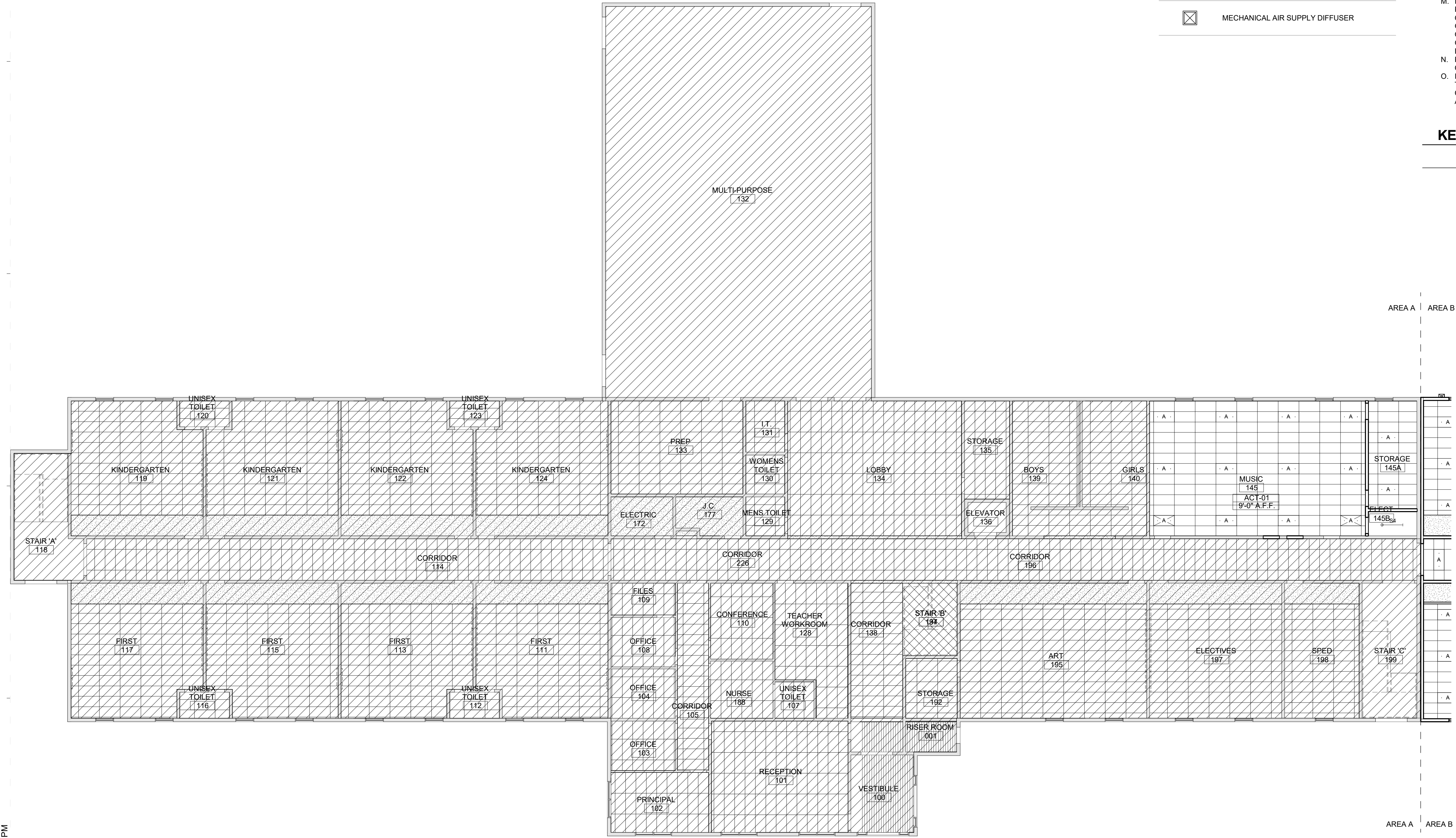
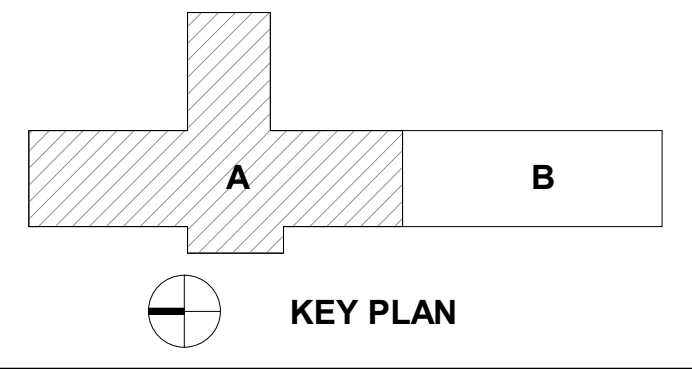
- CEILING TAG
REFLECTED CEILING DRAWINGS.
OTHERWISE. ALL CEILINGS TO BE ACT-01 UNLESS NOTED OTHERWISE.
- CEILING TYPE
XXX-01
10'-10" A.F.F.
CEILING HEIGHT (ABOVE FINISH FLOOR)
- SPOT ELEVATION MARKER
- GYB BOARD CEILING, PAINTED PT-02 (REFER TO PLAN FOR SUSPENSION TYPE)
- ACOUSTIC CEILING TILE ACT-01 24" X 48"
- 24" x 48" LIGHT FIXTURE (SEE ELECTRICAL PLANS FOR FURTHER INFORMATION)
- DOWNLIGHT
- MECHANICAL RETURN REGISTER
- MECHANICAL AIR SUPPLY DIFFUSER

GENERAL CEILING PLAN NOTES

- A. THESE GENERAL NOTES APPLY TO SERIES A-130 REFLECTED CEILING DRAWINGS.
- B. INSTALL NEW CEILINGS AT +9'-0" A.F.F. UNLESS NOTED OTHERWISE. ALL CEILINGS TO BE ACT-01 UNLESS NOTED OTHERWISE.
- C. CENTER CEILING GRIDS WITHIN ROOMS EACH DIRECTION UNLESS NOTED OTHERWISE.
- D. LOCATE CEILING GRIDS WITHIN ROOMS SUCH THAT BORDERS CONTAIN NOT LESS THAN 1/2 TILE WIDTH, UNLESS OTHERWISE INDICATED.
- E. CENTER PENETRATIONS IN ACOUSTICAL CEILING SYSTEMS WITHIN INDIVIDUAL CEILING PANELS, SUCH AS SPRINKLER HEADS, DIFFUSERS, LIGHT FIXTURES, ETC., UNLESS OTHERWISE INDICATED.
- F. PAINT EXPOSED GYPSUM BOARD AND PLASTER CEILING SURFACES PT-02 UNLESS OTHERWISE INDICATED.
- G. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD CEILING CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN JOINTS OF 30'-0". VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK WHETHER OR NOT INDICATED ON THE DRAWINGS.
- H. CEILING ACCESS PANELS INDICATED ARE NOT INTENDED TO LIMIT NUMBER OF PANELS REQUIRED. PANEL QUANTITY SHALL BE SUFFICIENT TO PROVIDE REQUIRED ACCESS WHETHER OR NOT INDICATED ON THE DRAWINGS. VERIFY FINAL LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK.
- I. REFER TO SERIES A-650 FINISH SCHEDULE FOR ADDITIONAL CEILING FINISH INFORMATION.
- J. REFER TO ELECTRICAL DRAWINGS FOR CEILING-MOUNTED LIGHT FIXTURE TYPES AND QUANTITIES.
- K. REFER TO MECHANICAL DRAWINGS FOR CEILING-MOUNTED DIFFUSERS, GRILLE TYPES AND QUANTITIES.
- L. REFER TO FIRE PROTECTION DRAWINGS FOR SPRINKLER HEAD TYPES AND QUANTITIES. HEADS HAVE BEEN INTENTIONALLY OMITTED FROM REFLECTED CEILING PLANS FOR CLARITY.
- M. INSTALLATION OF CEILING SYSTEMS SHALL NOT BEGIN PRIOR TO SUBMITTAL AND REVIEW OF CEILING COORDINATION DRAWINGS SHOWING LAYOUT OF CEILING GRIDS OR CONTROL JOINTS AND ITEMS TO BE INSTALLED IN OR ON CEILINGS SUCH AS SPRINKLER HEADS, DIFFUSERS, GRILLES, LIGHT FIXTURES, FIRE DETECTION AND ALARM DEVICES, ACCESS PANELS, ETC.
- N. PROVIDE 4" AXIOM EDGE TRIM ON ALL EXPOSED EDGES OF CEILINGS UNLESS NOTED OTHERWISE.
- O. IN AREAS WHERE STRUCTURE IS EXPOSED, CONTRACTOR TO PROVIDE FANAL LAYOUTS OF ALL DUCTWORK, PIPING, CONDUIT, LIGHTING, ETC. FOR FINAL APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.

KEYNOTES (ACTION/GENERAL)

-00-A1



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M. BOWEN
REGISTERED ARCHITECT
5950
NORTH CAROLINA
RALEIGH, N.C.

SHEET ISSUE	DATE
1 100% Construction Documents	2/24/2021

PROJECT NO.	20408.000
SHEET TITLE	FIRST FLOOR REFLECTED CEILING PLAN - AREA A

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SHEET NUMBER
A-131A

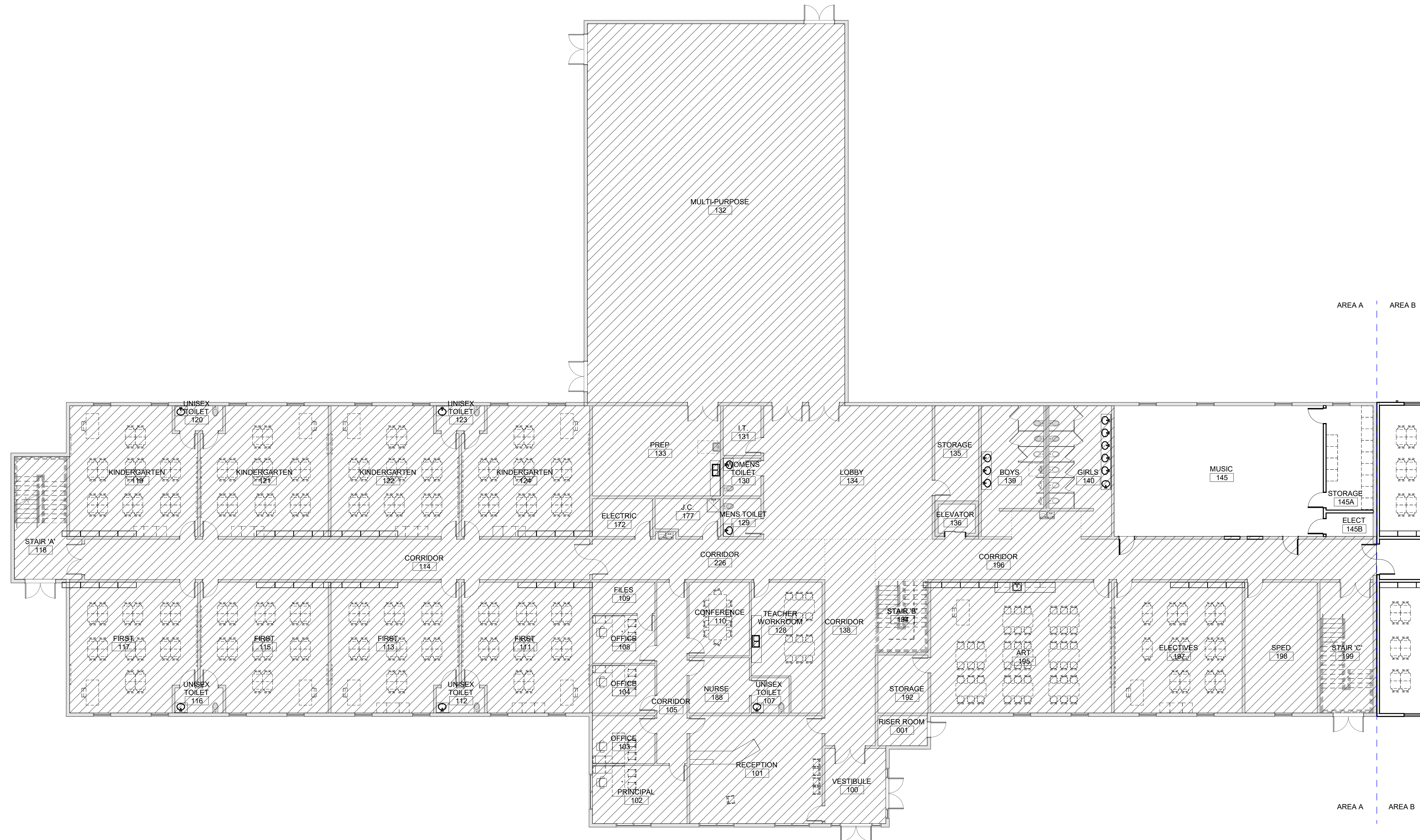
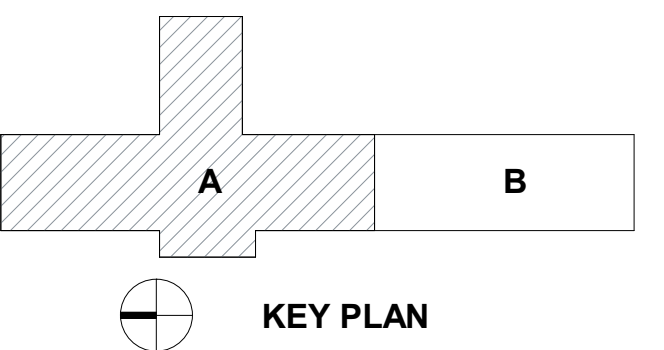
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SHEET ISSUE

Issue No.	Description	Date
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PROJECT NO. 20408.000
 SHEET TITLE
FIRST FLOOR EQUIPMENT PLAN-AREA A

SHEET NUMBER
A-170A

FOR REFERENCE ONLY

2/24/2021 4:39:40 PM

A1
 A-170A
 3/32" = 1'-0"

FIRST FLOOR EQUIPMENT PLAN-AREA A

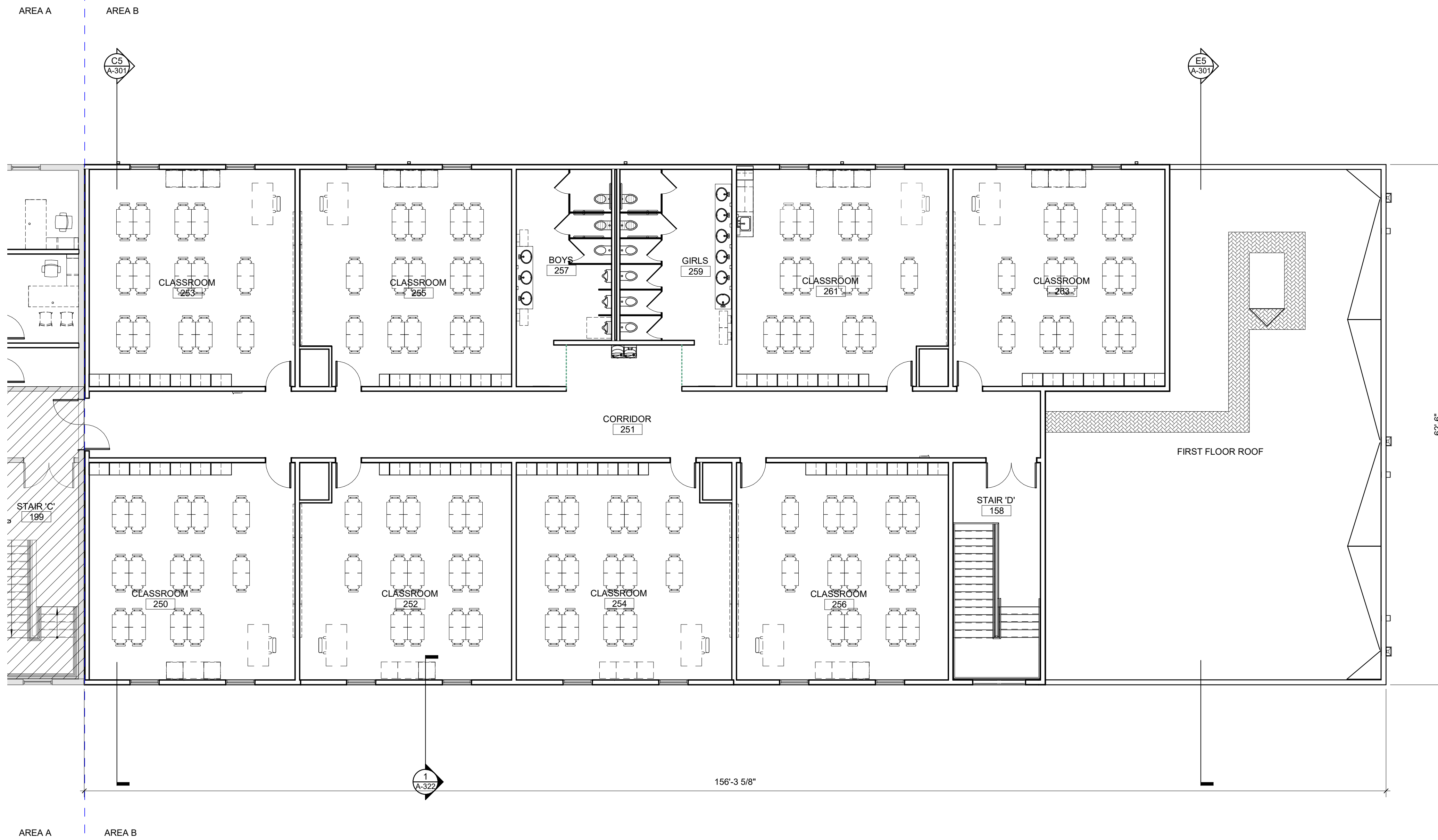
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NO.	DESCRIPTION	DATE
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PROJECT NO. 20408.000

SHEET TITLE
**SECOND FLOOR
 EQUIPMENT
 PLAN-AREA B**

SHEET NUMBER
A-171B

FOR REFERENCE ONLY

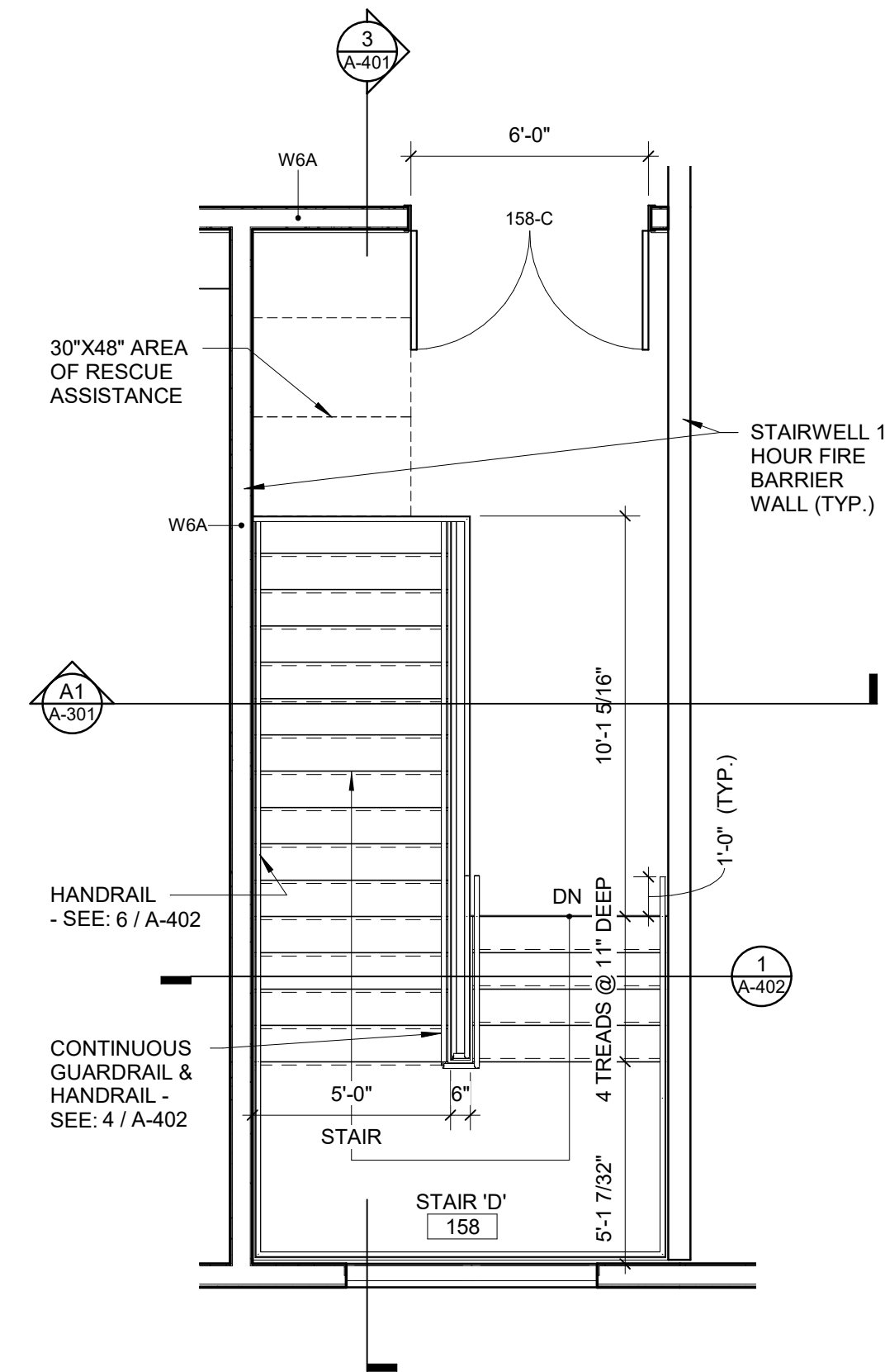
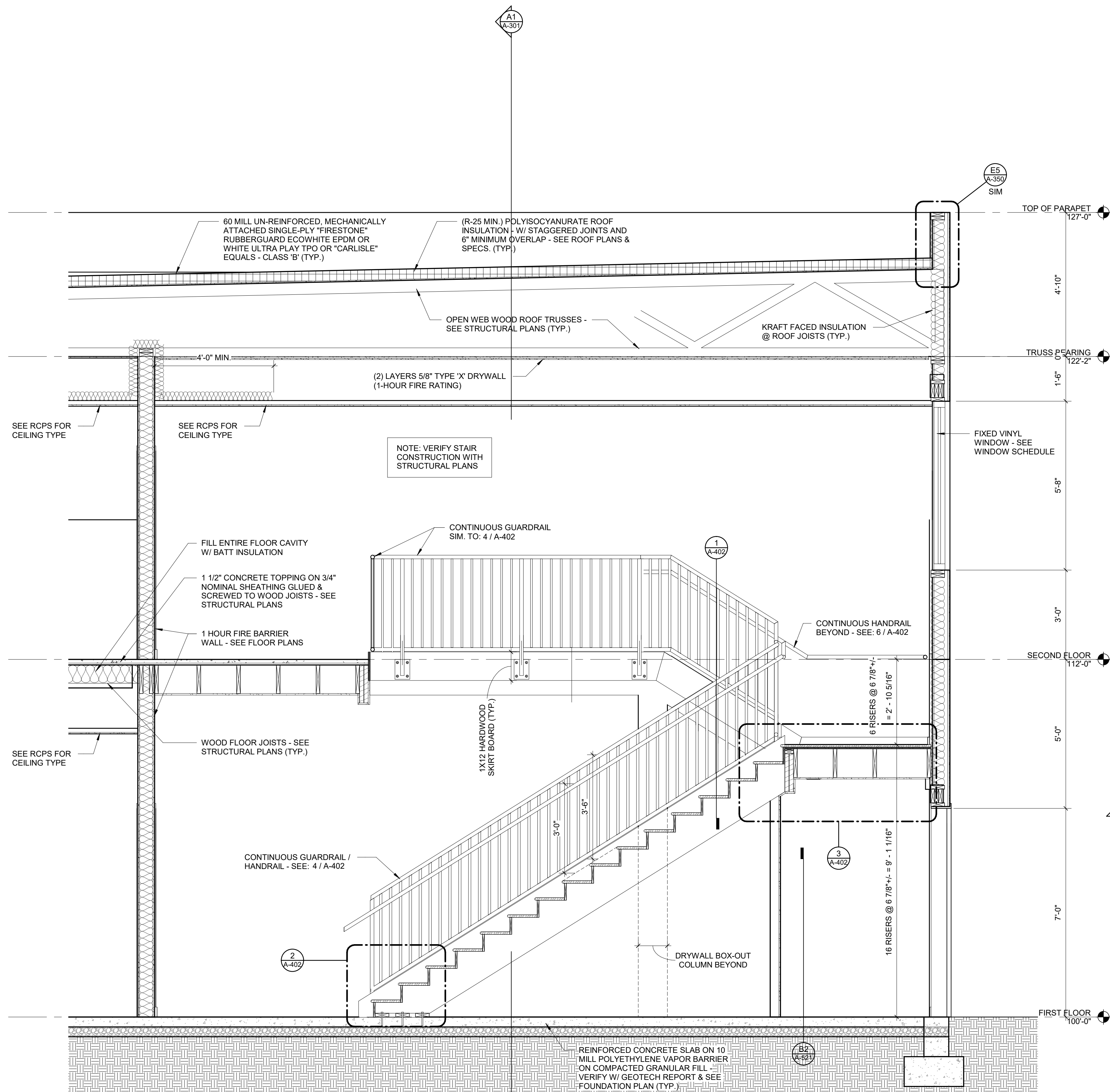
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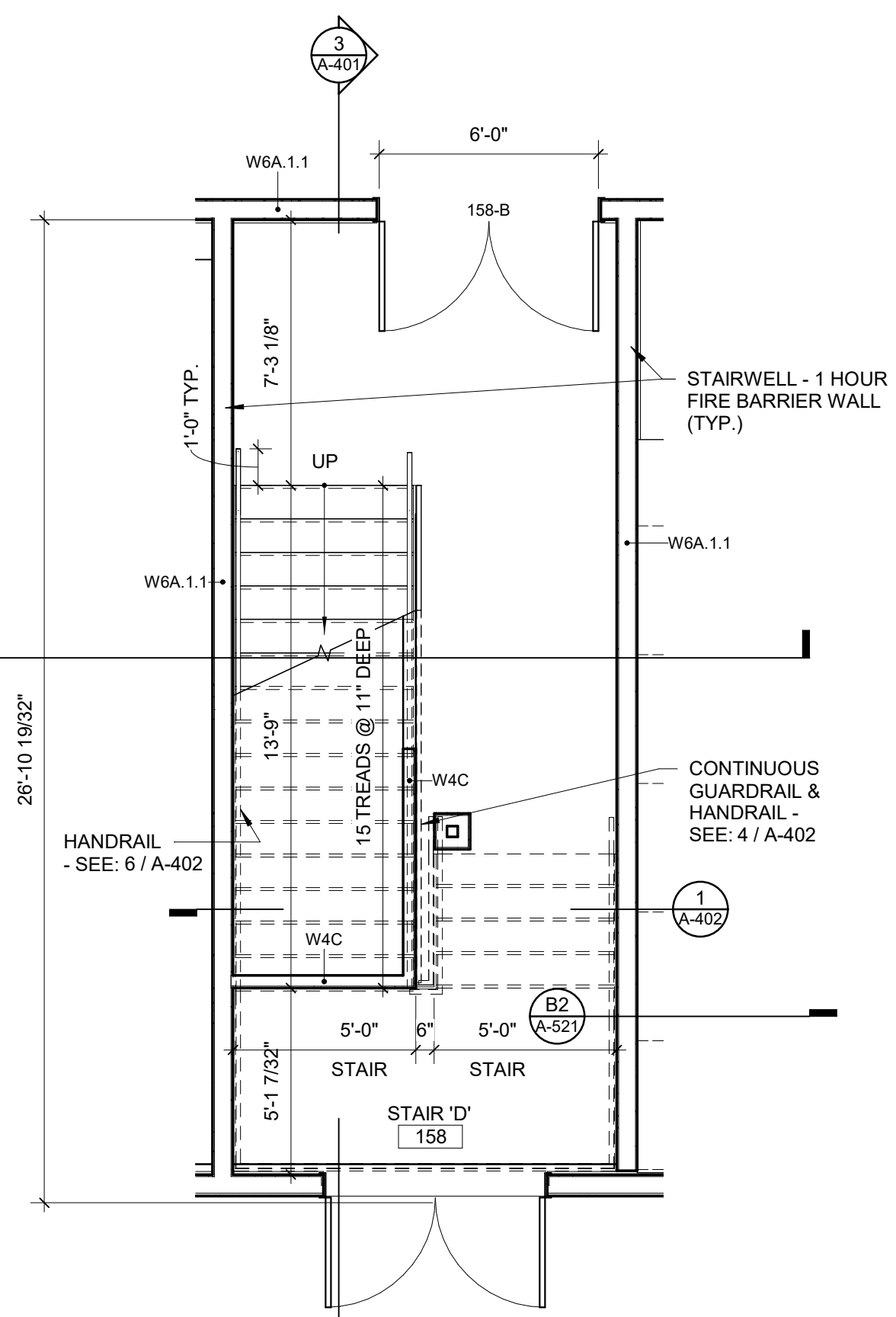
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2 STAIR D - SECOND FLOOR
 1/4" = 1'-0"



1 STAIR D - FIRST FLOOR
 1/4" = 1'-0"

3 SECTION - STAIR D
 1/2" = 1'-0"

SEAL | DATE 2/8/2021



SHEET ISSUE

NO.	DESCRIPTION	DATE
1	50% Construction Documents	2/8/2021



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PROJECT NO. 20408.000

SHEET TITLE
ENLARGED STAIR PLANS AND SECTIONS

SHEET NUMBER
A-401

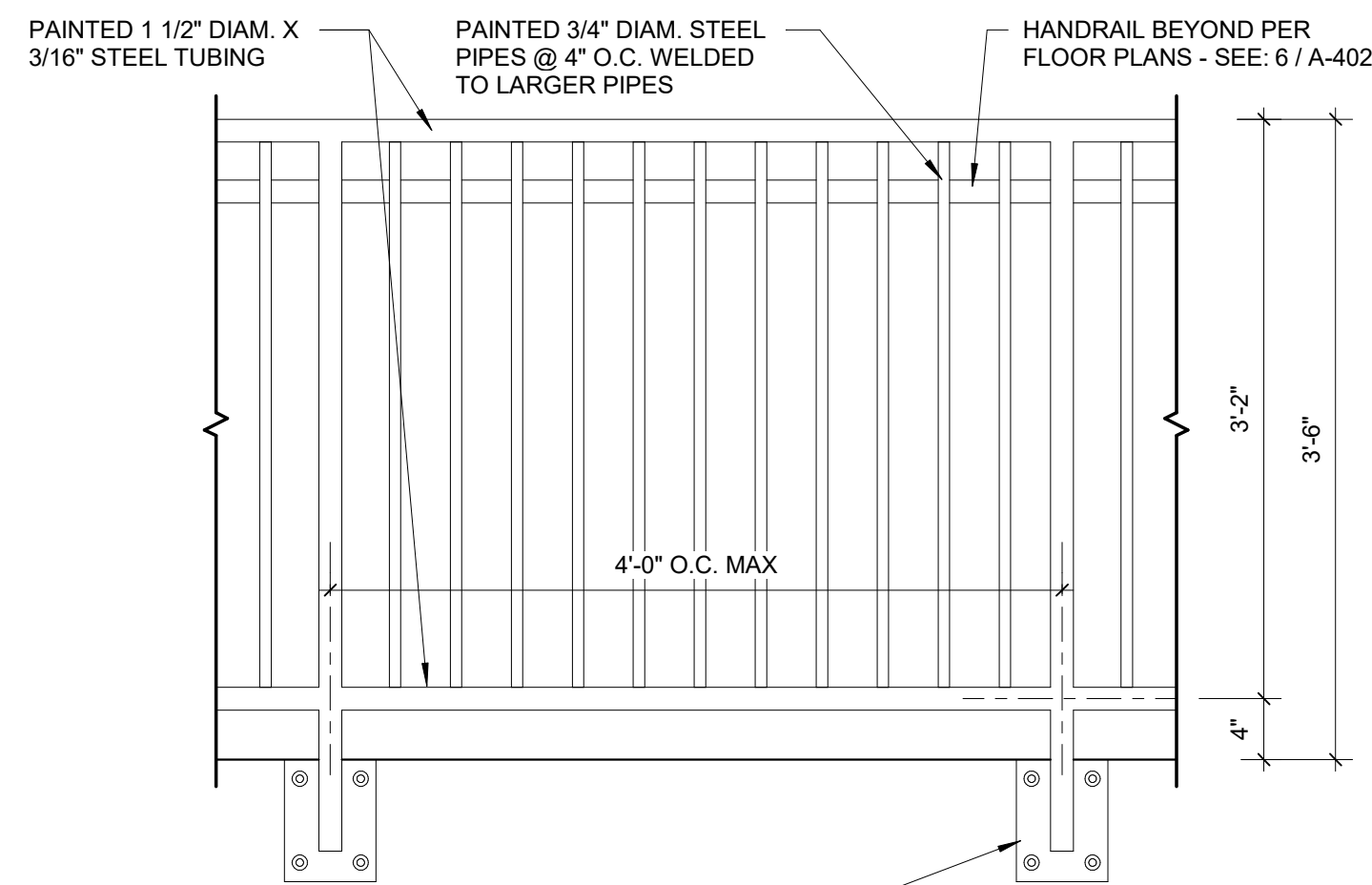
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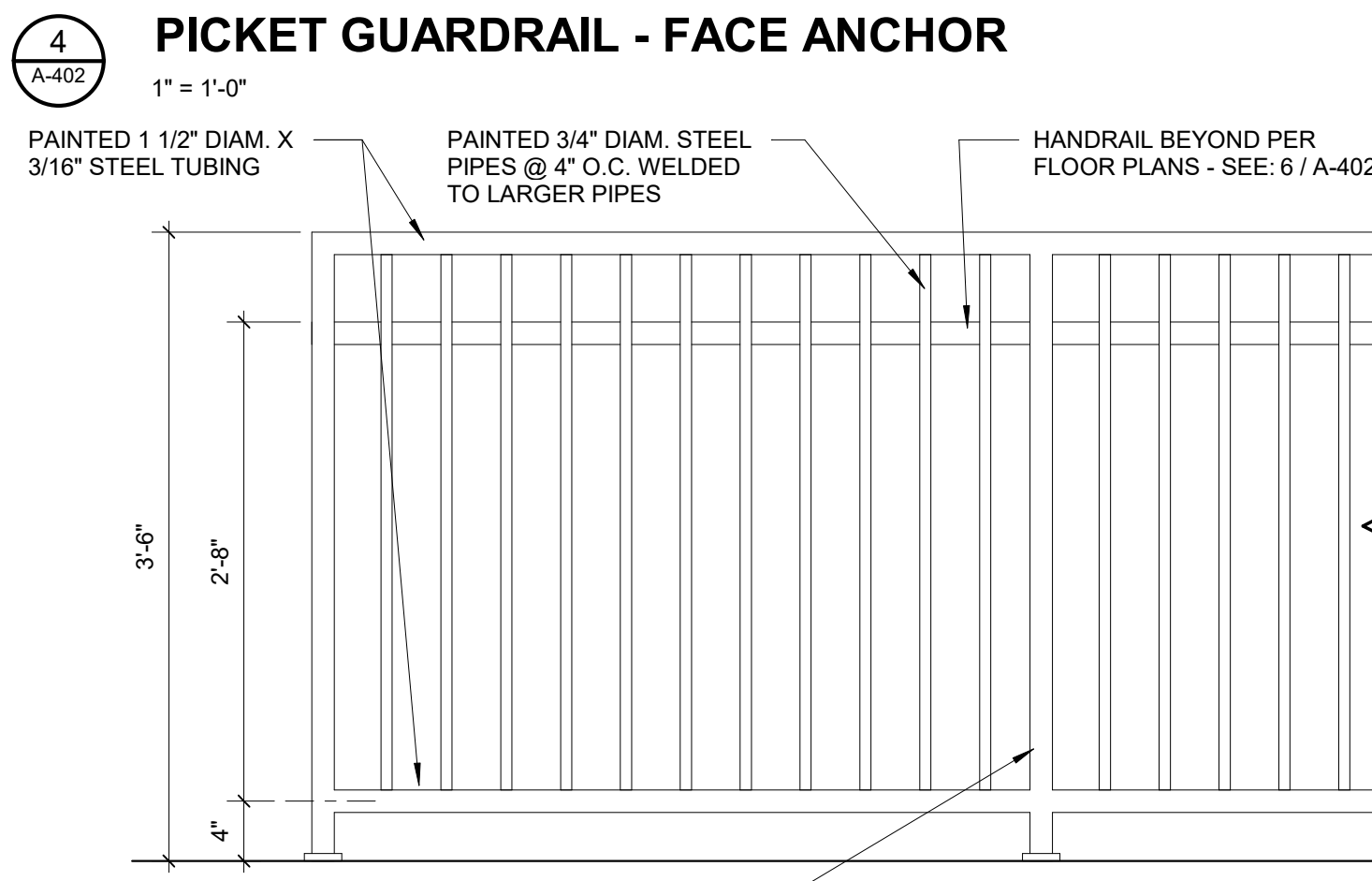
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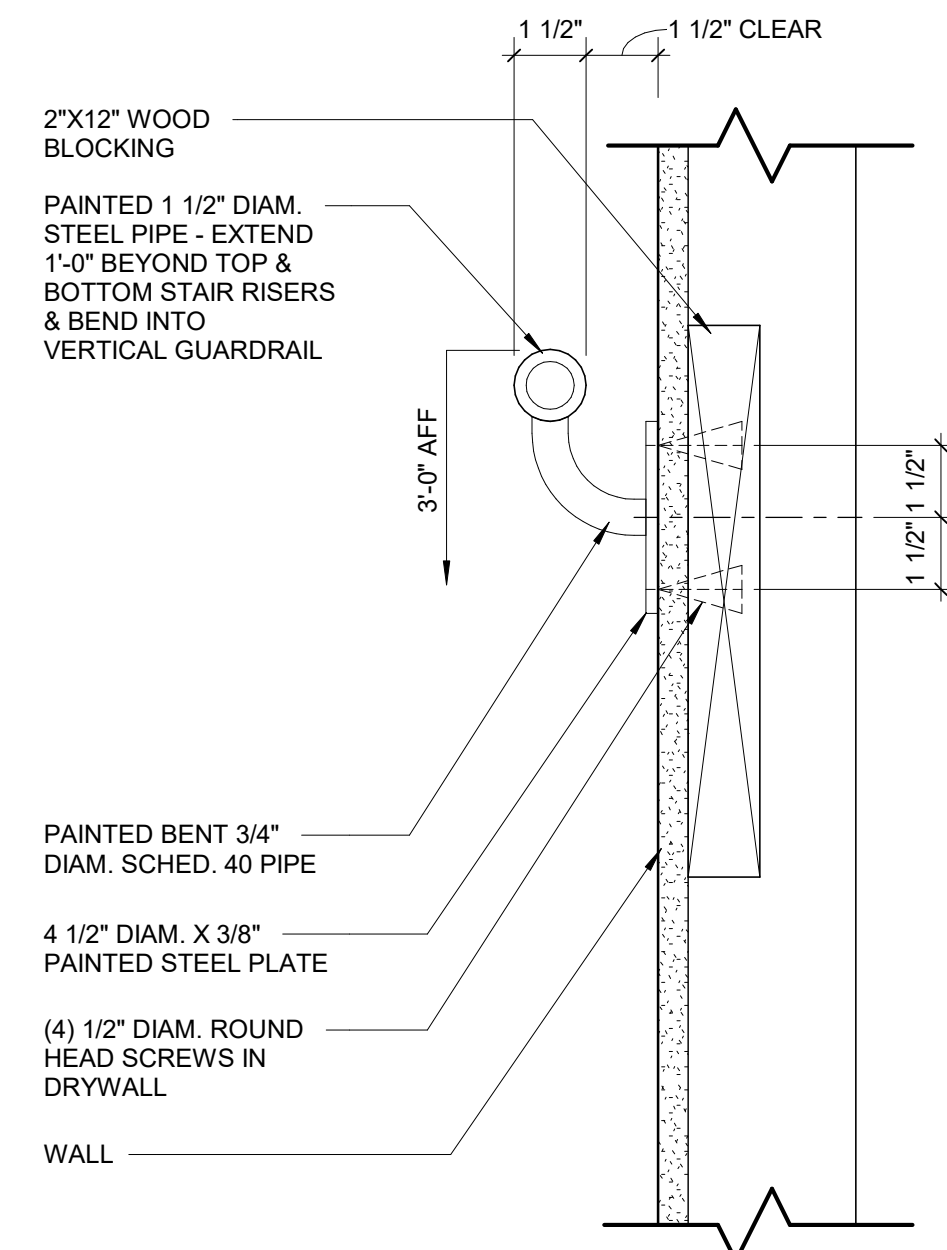


PAINTED STEEL BEARING PLATE: 6"x8"x1/4" THICK - WELD TO GUARDRAIL VERTICAL & ANCHOR THRU SKIRT BOARD AND STRINGER W/ 1/2" LAG BOLTS (TYP.)

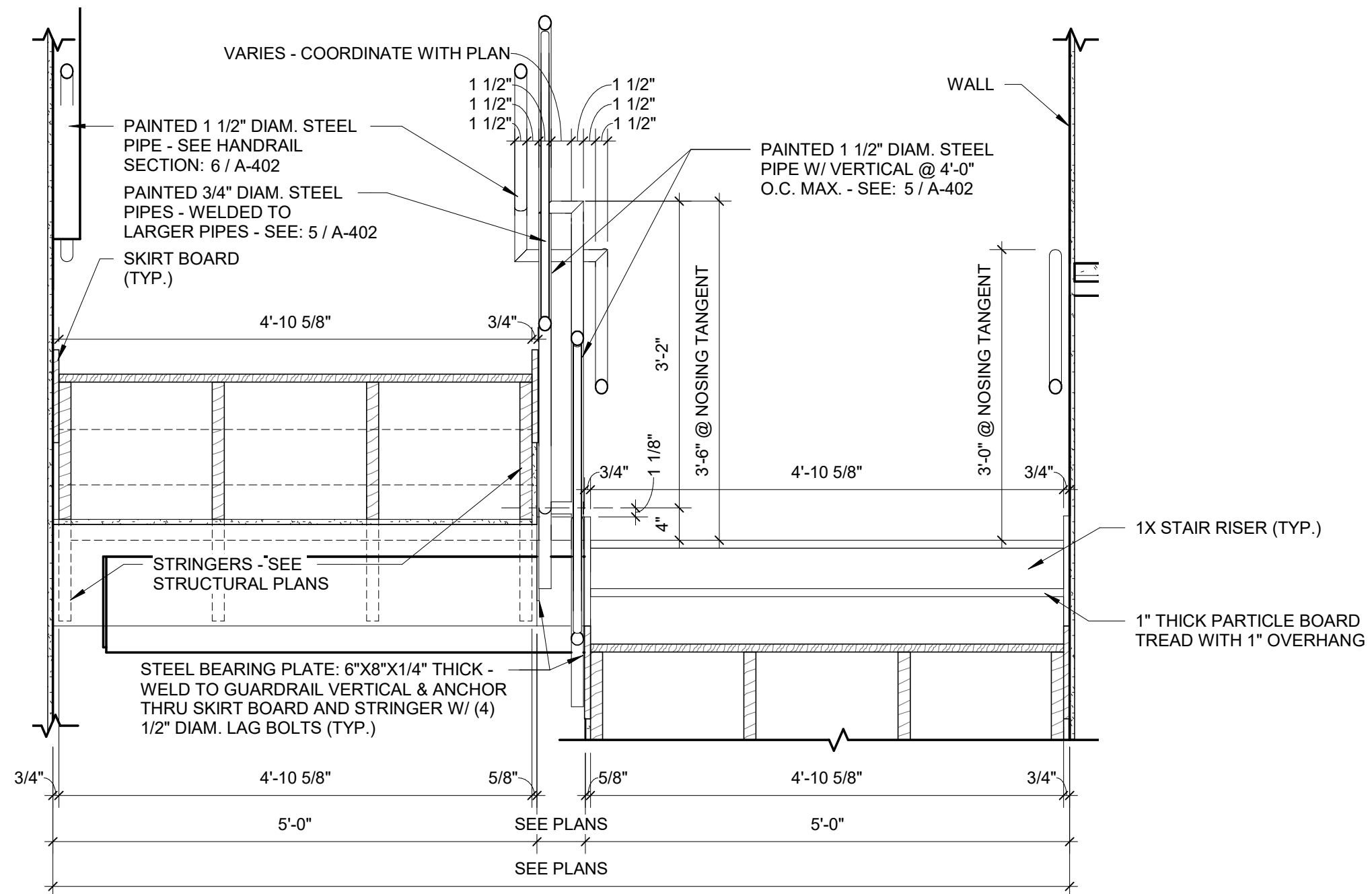


PAINTED 1 1/2" DIAM. X 3/16" STEEL TUBING VERTICALS @ 48" O.C. MAX. WITH 4"x4"x3/16" STEEL BASE PLATE EXPANSION ANCHORED TO CONCRETE

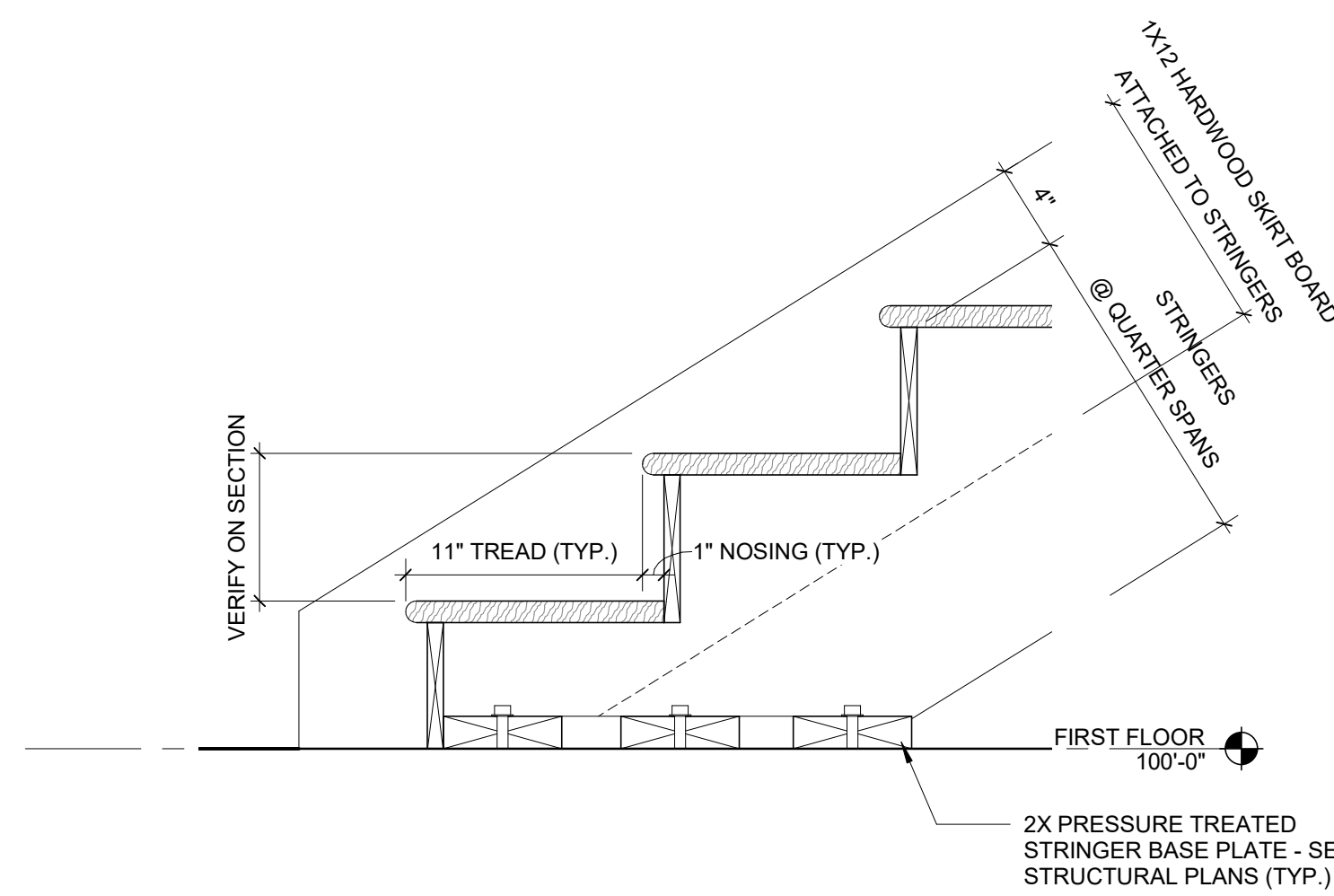
5 PICKET GUARDRAIL - TOP ANCHOR
1" = 1'-0"



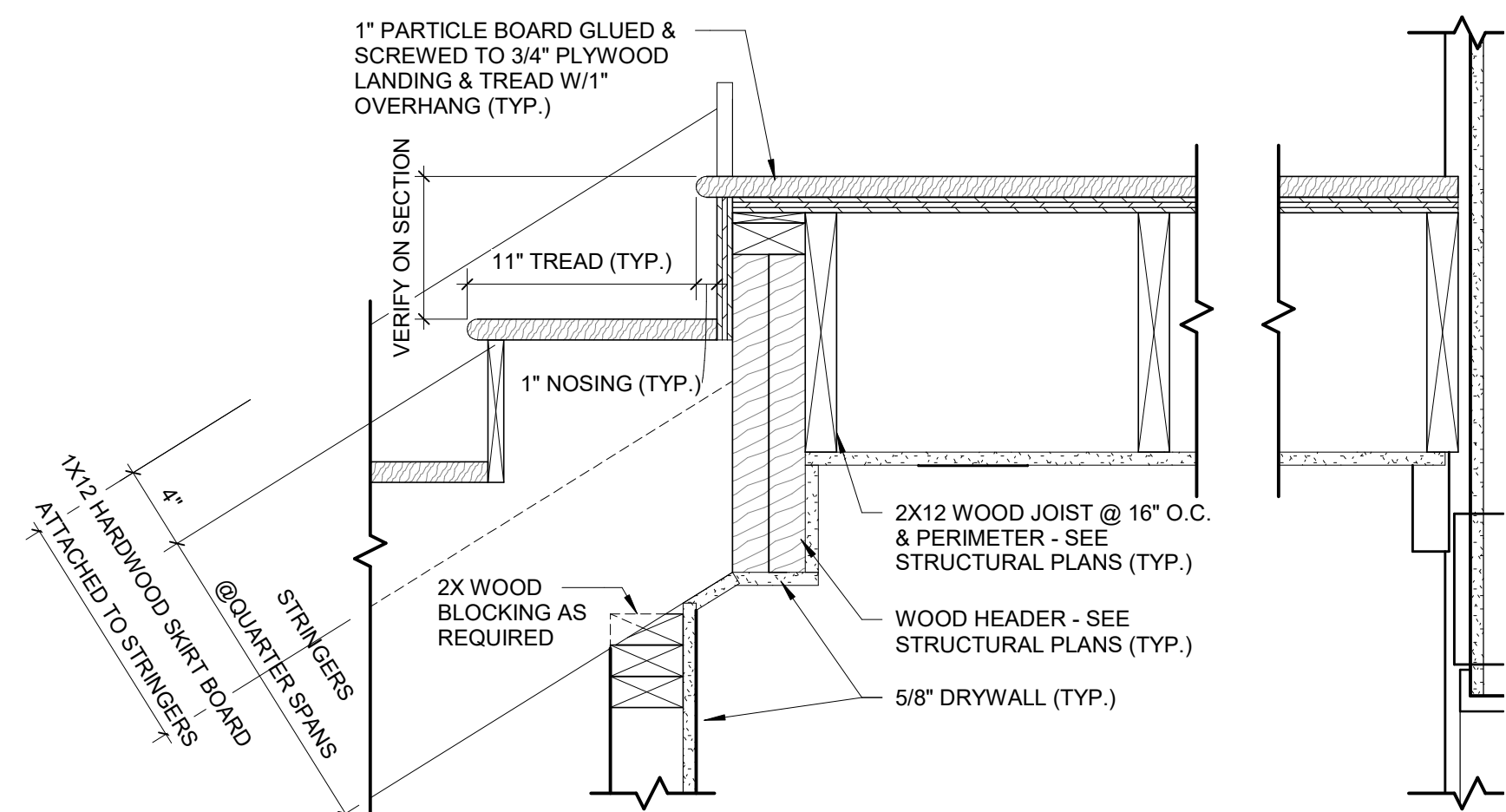
6 WALL MOUNTED HANDRAIL DETAIL
3" = 1'-0"



1 STAIR GUARDRAIL / HANDRAIL CROSS SECTION
3/4" = 1'-0"

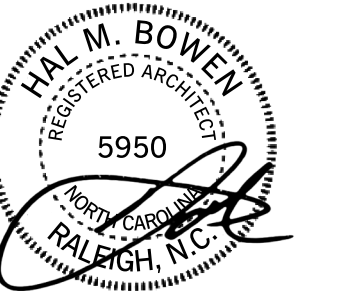


2 STAIR DETAIL @ BOTTOM
1 1/2" = 1'-0"



3 STAIR DETAIL @ LANDING
1 1/2" = 1'-0"

SEAL | DATE 2/24/2021



SHEET ISSUE
1 100% Construction Documents 2/24/2021

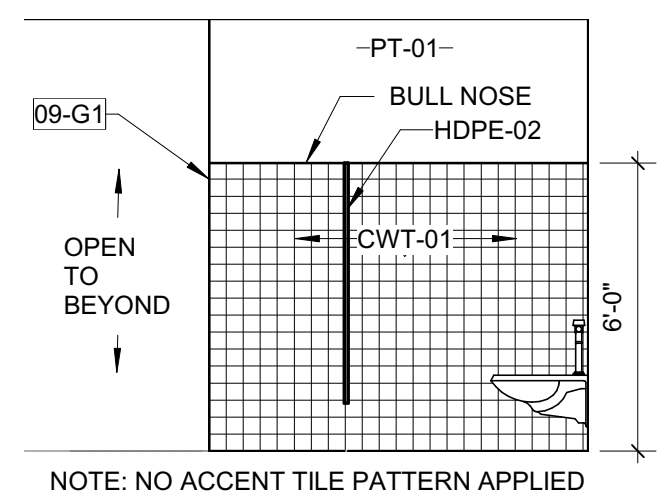


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SHEET TITLE
STAIR DETAILS

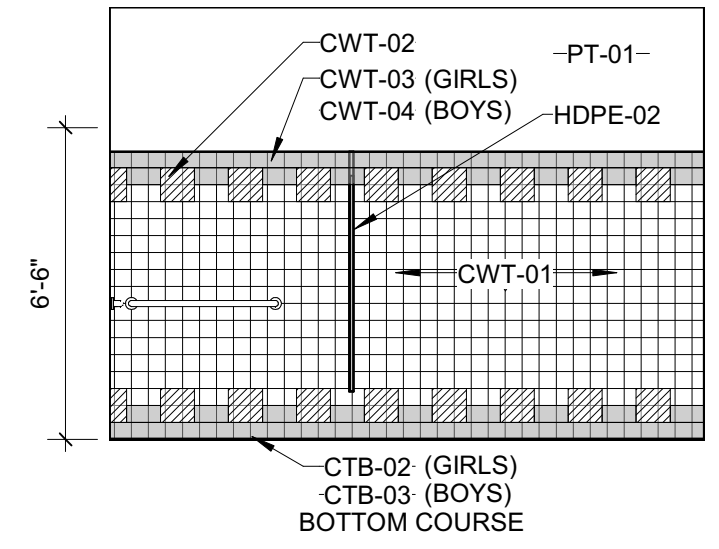
SHEET NUMBER
A-402



NOTE: NO ACCENT TILE PATTERN APPLIED

D1 INTERIOR ELEVATION - TOILET ROOM

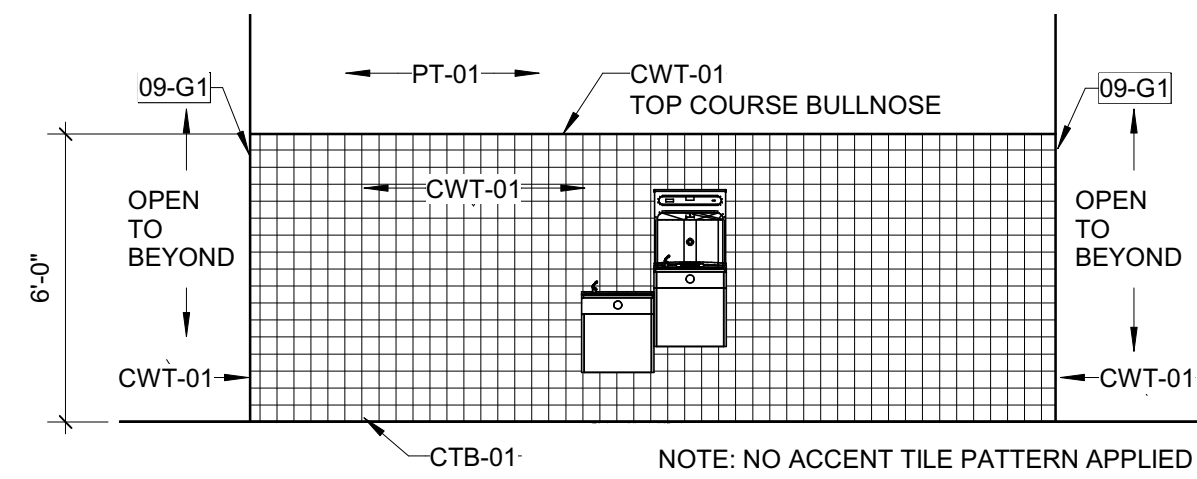
1/4" = 1'-0"



TYPICAL WALL ACCENT TILE PATTERN

C1 INTERIOR ELEVATION - TOILET ROOM NORTH

1/4" = 1'-0"



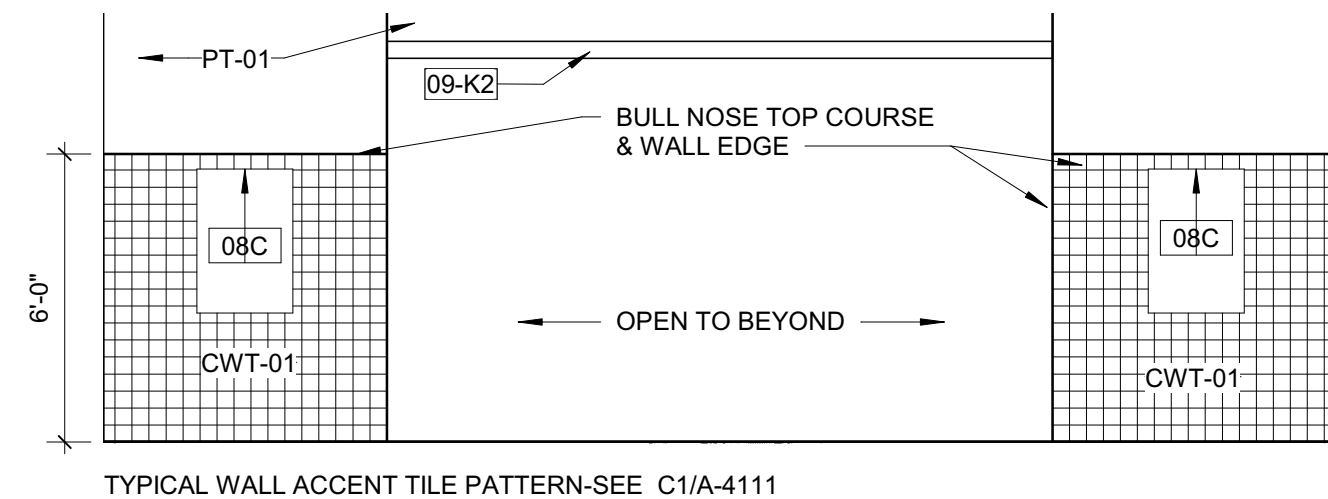
NOTE: NO ACCENT TILE PATTERN APPLIED

B1 INTERIOR ELEVATION - TOILET ROOM ENTRY

1/4" = 1'-0"

C2 INTERIOR ELEVATION - TOILET TOOM

1/4" = 1'-0"



TYPICAL WALL ACCENT TILE PATTERN-SEE C1/A-4111

B2 INTERIOR ELEVATION - TOILET ROOM AT MIRROR

1/4" = 1'-0"

TOILET ROOM ACCESSORIES

05A

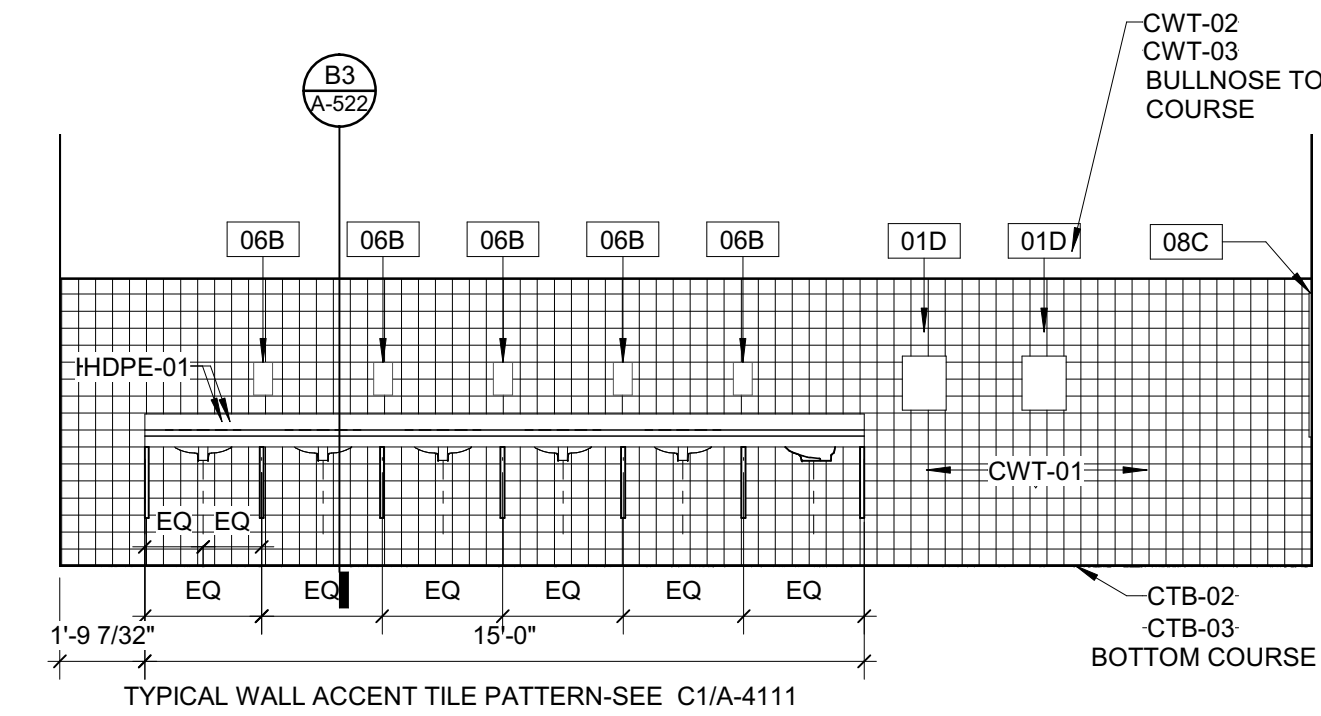
REFER TO SHEET A-002 FOR TOILET COMPARTMENT TYPES AND ACCESSORIES

TAG	DESCRIPTION	MFR	MODEL NO.	PROVIDED AND INSTALLED BY
01D	PAPER TOWEL DISPENSER, SURFACE MOUNTED	BOBRICK	B-4262	OWNER
05A	GRAB BAR, 42"	BOBRICK	B-5806 x 42	CONTRACTOR
05B	GRAB BAR, 36"	BOBRICK	B-5806 x 36	CONTRACTOR
05D	GRAB BAR, 18"	BOBRICK	B-5806 x 18	CONTRACTOR
06B	SOAP DISPENSER, WALL MOUNTED	BOBRICK	B-2111	OWNER
08C	MIRROR, CUSTOM	PER SPECIFICATIONS	N/A	OWNER

WALL TILE LEGEND

- CWT-01 (FIELD)
- CTB-01 (FIELD)
- CWT-03 (ACCENT "A") *TOP COURSE BULLNOSE
- CWT-04 (ACCENT "B") *TOP COURSE BULLNOSE
- CTB-02 (ACCENT "A")
- CTB-03 (ACCENT "B")
- CWT-02 (ACCENT "C")

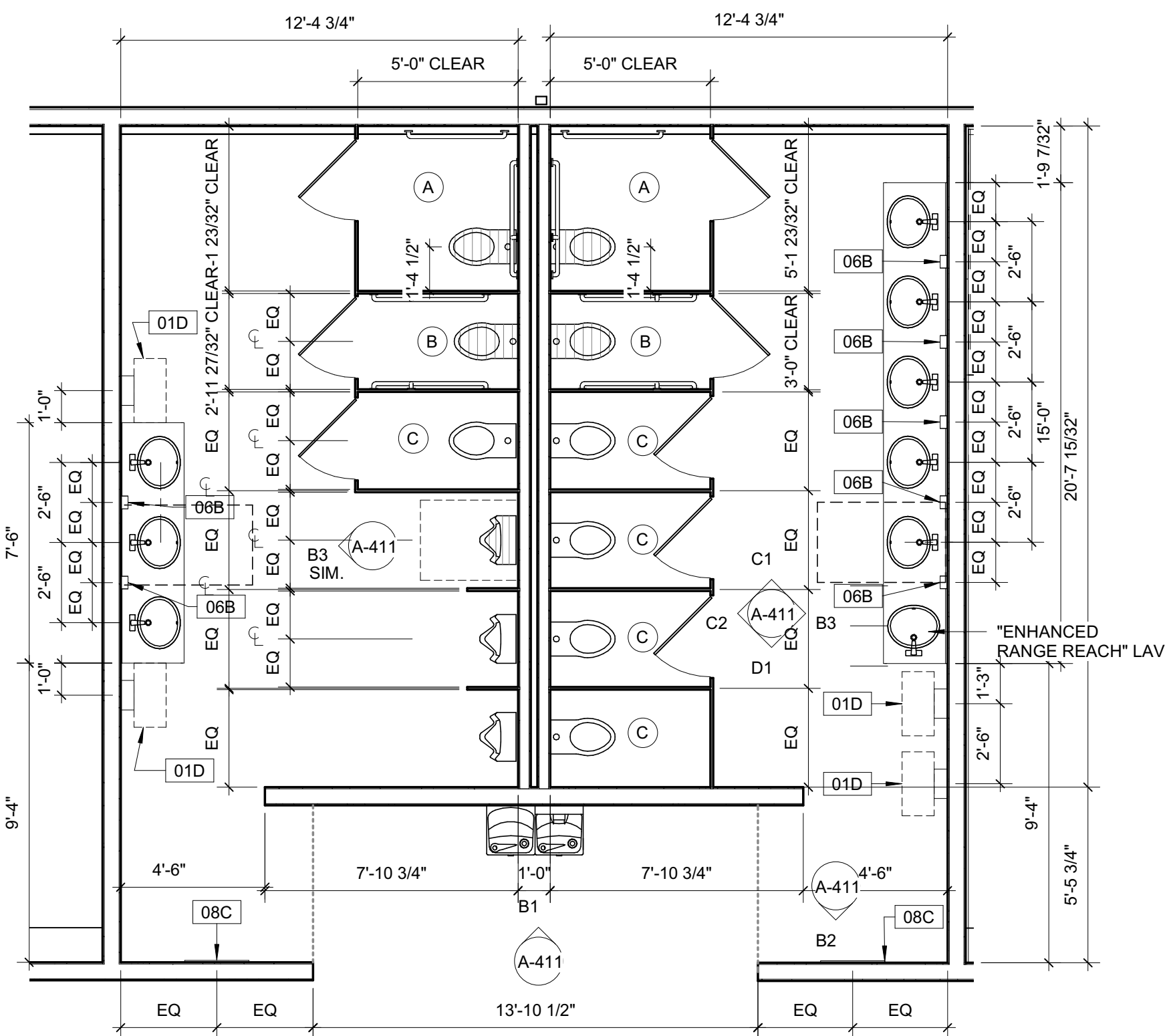
*ACCENT WALL TILE APPLIED TO ALL WALLS IN BATHROOMS U.N.O.



TYPICAL WALL ACCENT TILE PATTERN-SEE C1/A-4111

B3 INTERIOR ELEVATION - TOILET ROOM EAST

1/4" = 1'-0"



A1 ENLARGED TOILET PLAN

1/4" = 1'-0"

KEYNOTES (SPEC BASED)

061600.A00

KEYNOTES (ACTION/GENERAL)

00-A1

09-G1	WALL FINISH TO WRAP AROUND CORNER
09-K2	PAINTED, MATCH SURROUNDING ELEMENTS

GENERAL TOILET ROOM NOTES

- A. REFERENCE STANDARD PLUMBING FIXTURE REQUIREMENTS AND STANDARD TOILET TOOM ACCESSORY MOUNTING HEIGHTS ON A-001 FOR ADDITIONAL INFORMATION UNLESS OTHERWISE NOTED.
- B. REFERENCE STANDARD TOILET COMPARTMENTS - TYPICAL ACCESSORIES ON A-002 FOR TOILET ROOM ACCESSORIES LOCATED IN STALLS.
- C. B1/A411 WALL TILE PATTERN TO BE APPLIED IN BOTH BATHROOMS. SEE WALL TILE LEGEND FOR FINISH TAG/COLORS.
- D. SEE NOTES IN TOILET ACCESSORY SCHEDULE FOR PROVIDED AND INSTALLED BY INFORMATION.

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919-866-4938

SEAL | DATE 2/24/2021 | CODE CERT.



I HEREBY CERTIFY THAT THE BUILDING CODE SUMMARY COMPLETED ON THIS PAGE IS ACCURATE FOR THE TYPE OF BUILDING AND OCCUPANCY INTENDED FOR THIS PROJECT AND THAT THESE PLANS ARE COMPLETE AND COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING REGULATIONS

SHEET ISSUE

1 100% Construction Documents 2/24/2021



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PROJECT NO. 20408.000

SHEET TITLE
ENLARGED TOILET PLANS

SHEET NUMBER

A-411

DOOR HARDWARE SCHEDULE									
Door Hardware	Room Type	Hinges	Lockset / Exit Device	Cylinder	Floor Stop	Silencer	Closer	Doors_Hardware_OtherParameters	
1	CLASSROOMS	MCKINNEY, MPB79 4.5X4.5, US26D	SARGENT, 28-10G05 LL, LESS CYLINDER US26D	SARGENT, L-SECTION - KEYED BY OWNER, US26D	ROCKWOOD, 442	ROCKWOOD, 608, GRAY	NONE		
2	OFFICE	MCKINNEY, T2714 4.5X4.5, US26D	SARGENT, 28-10G05 LL	SARGENT, L-SECTION - US26D	ROCKWOOD, 442	ROCKWOOD, 608, GRAY	NONE		
3	STORAGE	MCKINNEY, T2714 4.5X4.5, US26D	SARGENT, 28-10G04 LL, US26D	SARGENT, L-SECTION - US26D	ROCKWOOD, 442	ROCKWOOD, 608, GRAY	SARGENT 351, EN FINISH		
4	BI-PARTING DOORS	MCKINNEY, T2714 US26D	SURFACE VERTICAL ROD EXIT DEVICE: SARGENT 12-43-8710F EOXTB, US32D	NONE	NONE	ROCKWOOD, 608, GRAY	SARGENT, 1431 RUO X TB (PA), EN	INTERCHANGEABLE MULLION	
5	PAIR EXTERIOR EGRESS DOORS	MCKINNEY, T2714 4.5X4.5 NRP	RIM EXIT DEVICE: SARGENT 43-8804FTXB826 PULL	SARGENT, L-SECTION - US26D	NONE	ROCKWOOD, 608, GRAY	SARGENT 351, EN FINISH	REMOVABLE MULLIONS: SARGENT #980 WEATHERSTRIP SEAL: NATIONAL GUARD 160V-3070 SWEEP: NATIONAL GUARD D608A-36 THRESHOLD: NATIONAL GUARD 424-36 (NOTE: 1/2" HIGH MAX.)	
6	PAIR ALUMINUM INTERIOR DOORS	ROTON, 780-112HD OR MCKINNEY MCK-12HD CONTINUOUS HINGE	NONE	NONE	NONE	NONE	LCN, 4110, GRAY	PULLS: ROCKWOOD, BF157, US26D OR EQUAL PUSH: ROCKWOOD #70F OR EQUAL	
7	PAIR ALUMINUM EXTERIOR EGRESS DOORS	ROTON, 780-112HD OR MCKINNEY MCK-12HD CONTINUOUS HINGE	DOR-O-MATIC, 1690 EO, US26D	SARGENT, L-SECTION - US26D	NONE	NONE	LCN, 4110, GRAY	PULLS: ROCKWOOD, BF157, US26D REMOVABLE MULLION: DOR-O-MATIC, RM150 WEATHER STRIP SEAL: NATIONAL GUARD 160V-3070 SWEEP: NATIONAL GUARD D608A-36 THRESHOLD: NATIONAL GUARD 424-36 (NOTE: 1/2" HIGH MAX.)	
8	MECHANICAL / ELECTRICAL, JANITOR CLOSET	MCKINNEY, MPB79 4.5X4.5	SARGENT, 28-10G04 LL, 26D	SARGENT, L-SECTION - KEYED BY OWNER, US26D	ROCKWOOD, 442	ROCKWOOD, 608, GRAY	YALE 3501 X SNB		

GENERAL DOOR SCHEDULE NOTES

- THESE GENERAL NOTES APPLY TO SERIES 600 DOOR SCHEDULE DRAWINGS.
- UNDERCUT DOORS AS REQUIRED BY FINAL FLOOR FINISH.
- PROVIDE SEALANT BETWEEN HOLLOW METAL FRAME PERIMETERS AND SURROUNDING WALL CONSTRUCTION UNLESS OTHERWISE INDICATED.
- PROVIDE SEALANT BETWEEN INTERIOR AND EXTERIOR STOREFRONT FRAME PERIMETERS AND SURROUNDING WALL CONSTRUCTION UNLESS OTHERWISE INDICATED.
- GROUT FULL NEW HOLLOW METAL DOOR FRAMES IN MASONRY WALL CONSTRUCTION.
- SPOT GROUT NEW HOLLOW METAL DOOR FRAMES IN GYPSUM BOARD WALL CONSTRUCTION.
- WHERE A FIRE RATING IS INDICATED ON THE DOOR SCHEDULE, HARDWARE AND DOOR ASSEMBLY COMPONENTS SHALL MEET THE REQUIREMENTS OF THAT LABEL.
- WHERE ACOUSTICAL RATING IS INDICATED ON THE DOOR SCHEDULE, HARDWARE AND DOOR ASSEMBLY COMPONENTS SHALL MEET THE REQUIREMENTS OF THAT RATING.
- INSTALL DOOR GLASS USING WET-GLAZING METHOD.
- REFER TO PROJECT MANUAL DIVISION 08 FOR GLAZING.
- REFER TO PROJECT MANUAL DIVISION 08 FOR HARDWARE SCHEDULE.

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DOOR SCHEDULE REMARKS

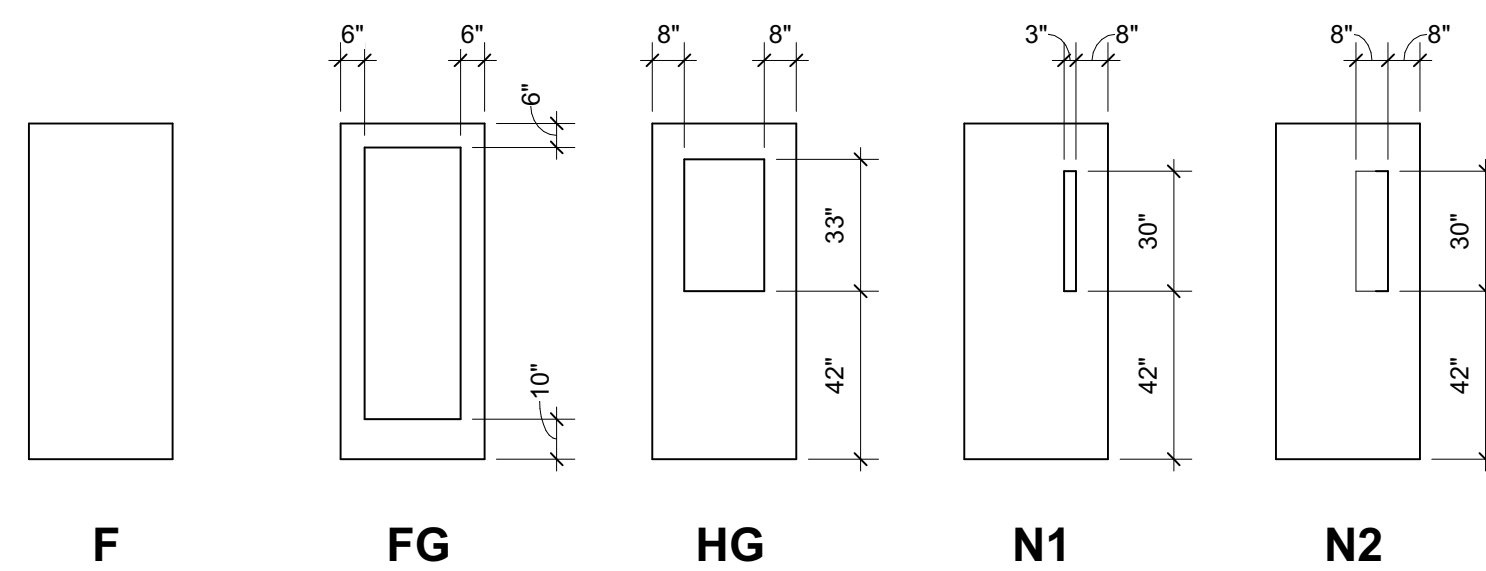
- CASED OPENING
- HOLLOW METAL DOORS AND FRAMES TO BE PAINTED PT-04

GLAZING SCHEDULE

GLAZING	DESCRIPTION
GL-01	1" CLEAR INSULATING GLASS, LOW-E COATED, TEMPERED - EXTERIOR APPLICATIONS
GL-11	1/4" CLEAR TEMPERED GLASS - INTERIOR APPLICATIONS, WINDOWS AND DOORS
GL-12	3/16" LAMINATED CERAMIC GLASS

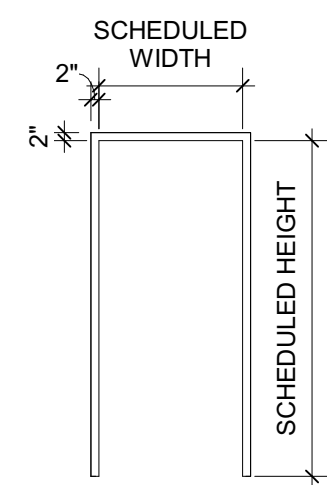
DOOR SCHEDULE

DOOR NUMBER	PAIR	DOOR										FRAME			FIRE RATING	REMARKS
		W	W2	H	T	MTRL.	ELEV.	GLASS	HWDR SET	MTRL.	ELEV.	HEAD	JAMB	THRESHOLD		
FIRST FLOOR																
145-A		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	PH
145-B		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	PH
145A		3'-0"		7'-0"	1 3/4"	WD	F	--	3	HM	F1	A2 / A-601	A2 / A-601		NR	
145A-B		3'-0"		7'-0"	1 3/4"	WD	F	--	3	HM	F1	A2 / A-601	A2 / A-601		NR	
145B		3'-0"		7'-0"	1 3/4"	WD	F	--	8	HM	F1	A2 / A-601	A2 / A-601		NR	
150		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
151	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	WD	F	--	4	HM	F1				NR	PH
152		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
153		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
154		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
155		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
156		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
158-A	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	AL	FG	GL-01	7	AL	F1	A6 / A-601	A6 / A-601		NR	PH
158-B	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	WD	N1	GL-12	5	HM	F1	A2 / A-601	A2 / A-601		45 MIN	PH; 20 MIN FIRE RATED
160-A	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	AL	FG	GL-11	6	AL	F1	A5/A-601	A5/A-601		NR	
160-B		3'-0"		7'-0"	1 3/4"	HM	F	--	7	HM	F1	A3 / A-601	A3 / A-601		NR	PH, 2
160-C		3'-0"		7'-0"	1 3/4"	HM	F	--	7	HM	F1	A3 / A-601	A3 / A-601		NR	PH, 2
163		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
165		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
SECOND FLOOR																
158-C	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	WD	N1	GL-12	5	HM	F1	A2 / A-601	A2 / A-601		45 MIN	PH; 20 MIN FIRE RATED
201A		3'-0"		7'-0"	1 3/4"	WD	HG	GL-11	2	HM	F1	A2 / A-601	A2 / A-601		NR	
201B		3'-0"		7'-0"	1 3/4"	WD	HG	GL-11	2	HM	F1	A2 / A-601	A2 / A-601		NR	
201C		3'-0"		7'-0"	1 3/4"	WD	HG	GL-11	2	HM	F1	A2 / A-601	A2 / A-601		NR	
201D		3'-0"		7'-0"	1 3/4"	WD	F	--	8	HM	F1	A2 / A-601	A2 / A-601		NR	
250		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
251	Yes	3'-0"	3'-0"	7'-0"	1 3/4"	WD	F	--	4	HM	F1				NR	
252		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
253		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
254		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
255		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
256		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
261		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	
263		3'-0"		7'-0"	1 3/4"	WD	N2	GL-11	1	HM	F1	A2 / A-601	A2 / A-601		NR	



DOOR PANEL LEGEND

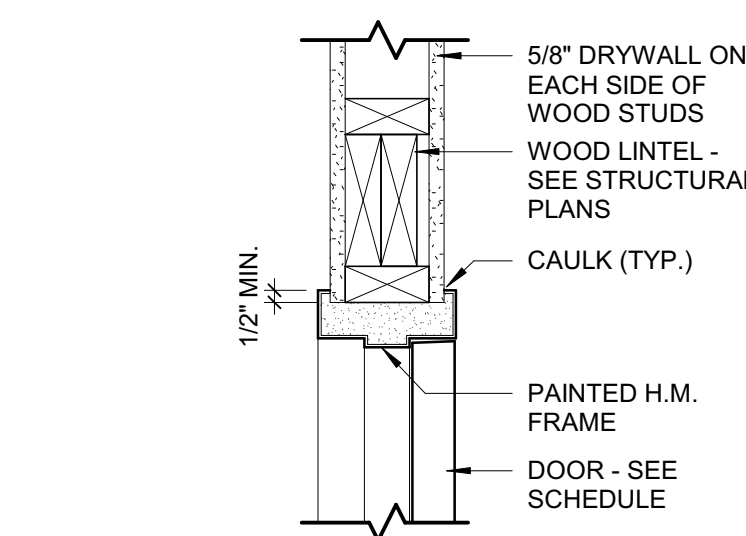
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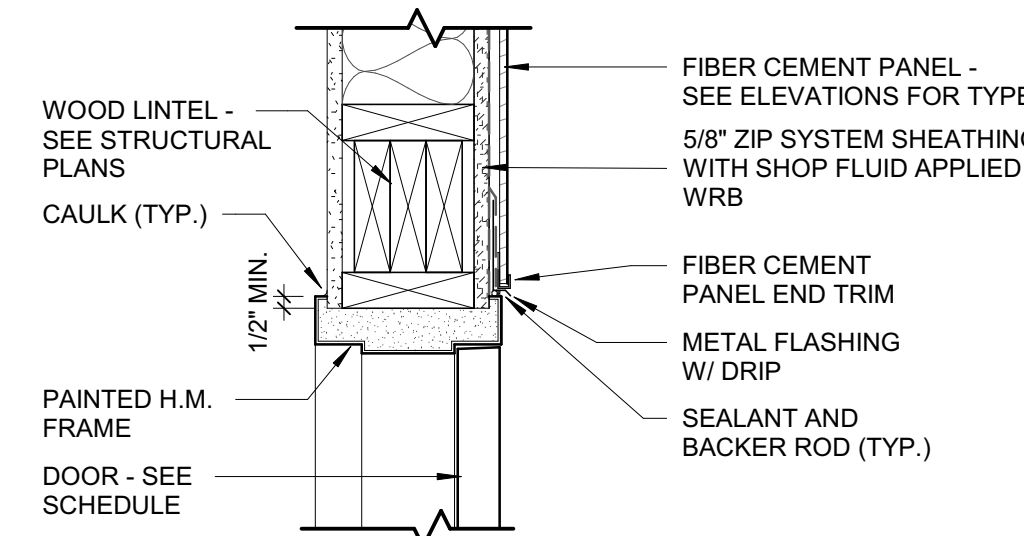
F1

DOOR FRAME LEGEND

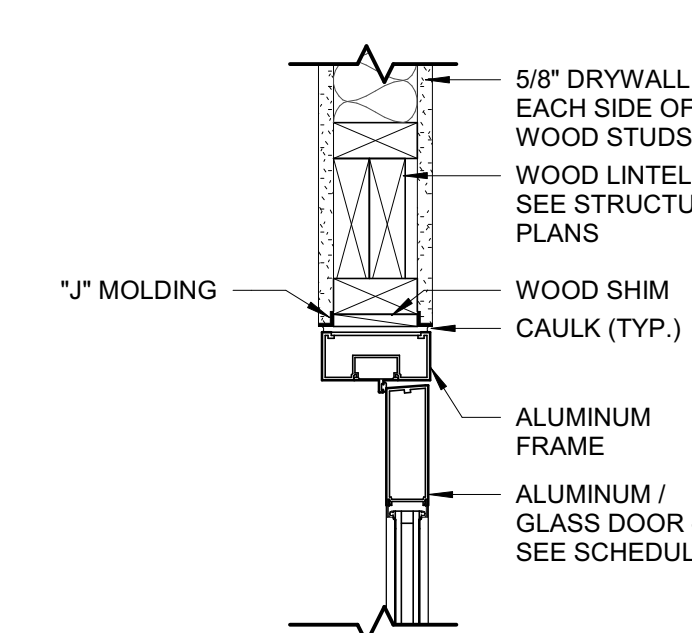
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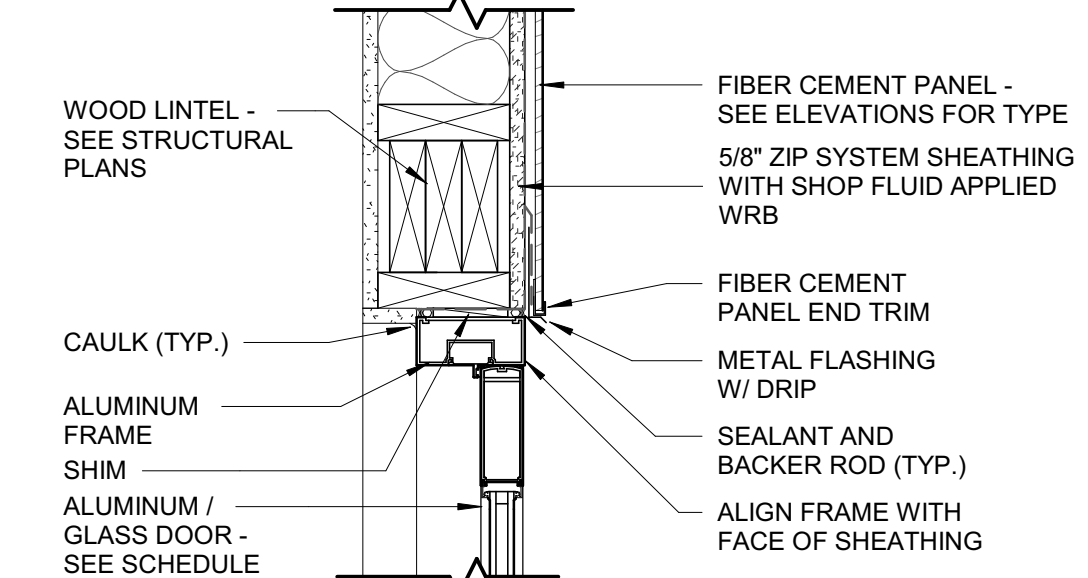
HEAD DETAIL



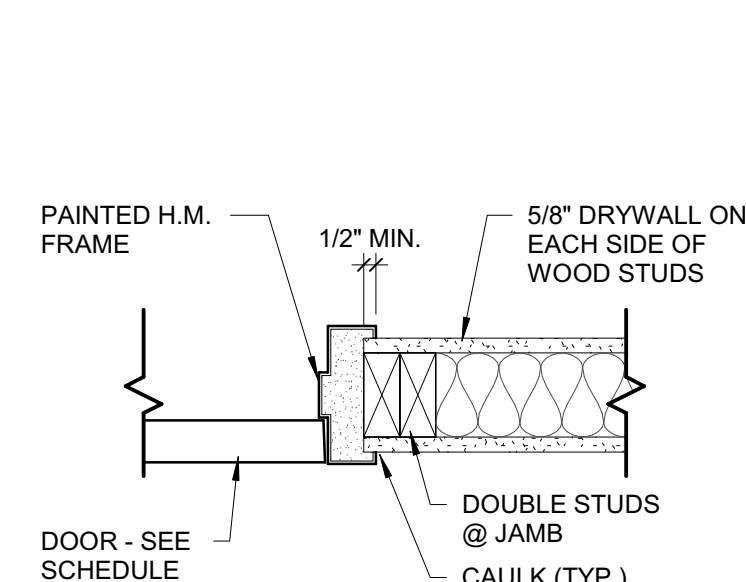
HEAD DETAIL



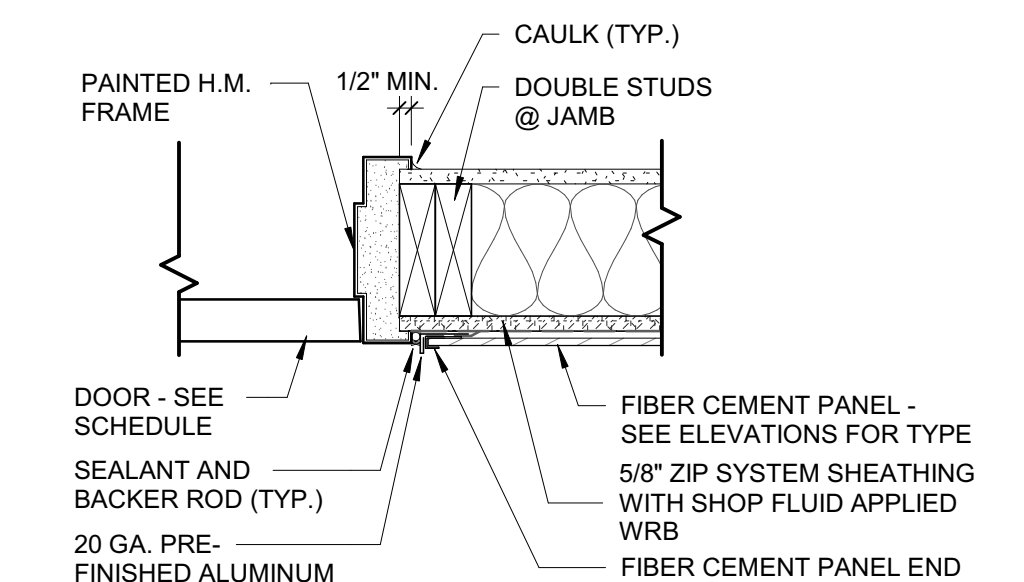
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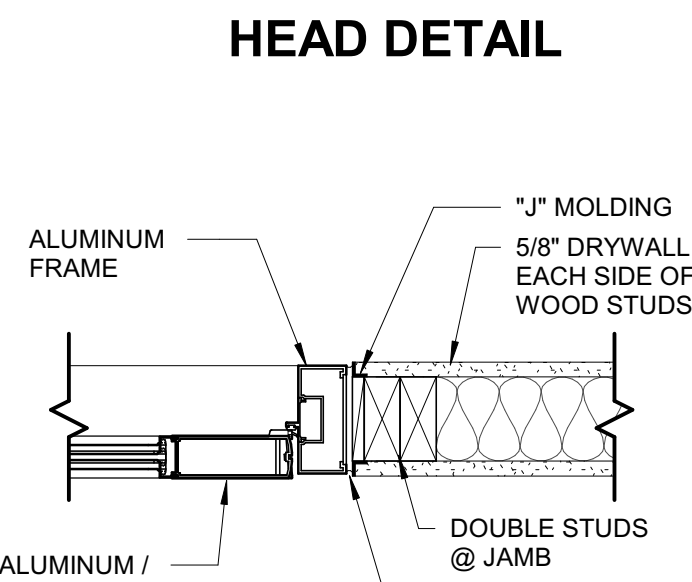
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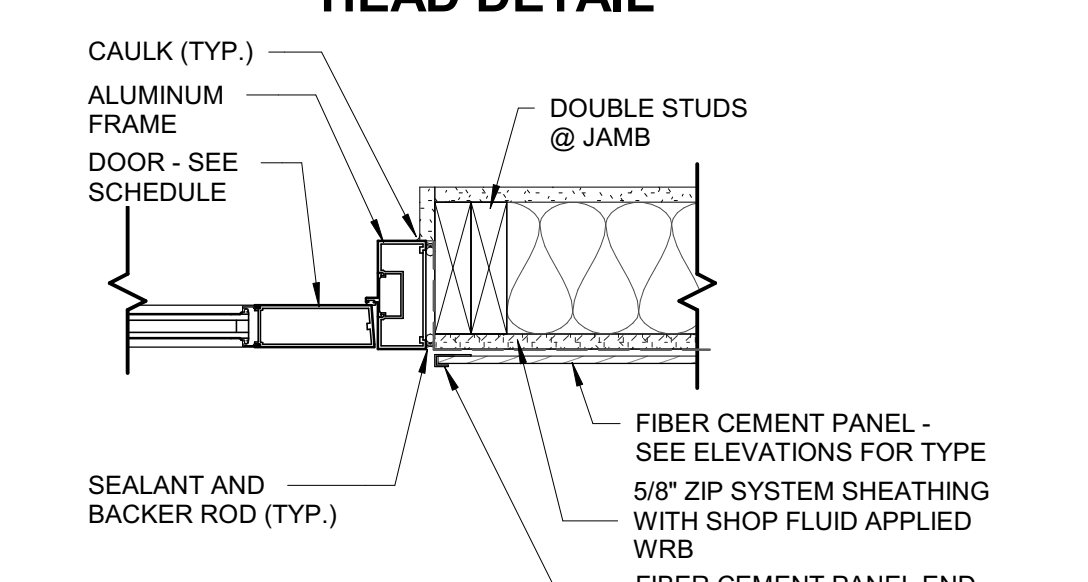
JAMB DETAIL



JAMB DETAIL



JAMB DETAIL



JAMB DETAIL

A2
A-601
INTERIOR WOOD STUD / HM FRAME
1 1/2" = 1'-0"

A3
A-601
EXTERIOR WOOD STUD / HM FRAME
1 1/2" = 1'-0"

A5
A-601
INTERIOR WOOD STUD / ALUM FRAME
1 1/2" = 1'-0"

A6
A-601
EXTERIOR WOOD STUD / ALUM FRAME
1 1/2" = 1'-0"

SEAL | DATE 2/24/2021

CODE CERT. I HEREBY CERTIFY THAT THE BUILDING CODE SUMMARY COMPLETED ON THIS PAGE IS ACCURATE FOR THE TYPE OF BUILDING AND OCCUPANCY INTENDED FOR THIS PROJECT AND THAT THESE PLANS ARE COMPLETE AND COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING REGULATIONS



SHEET ISSUE

1	100% Construction Documents	2/24/2021
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RATIO

PROJECT NO. 20408.000

SHEET TITLE
DOOR SCHEDULE AND DETAILS

SHEET NUMBER
A-601

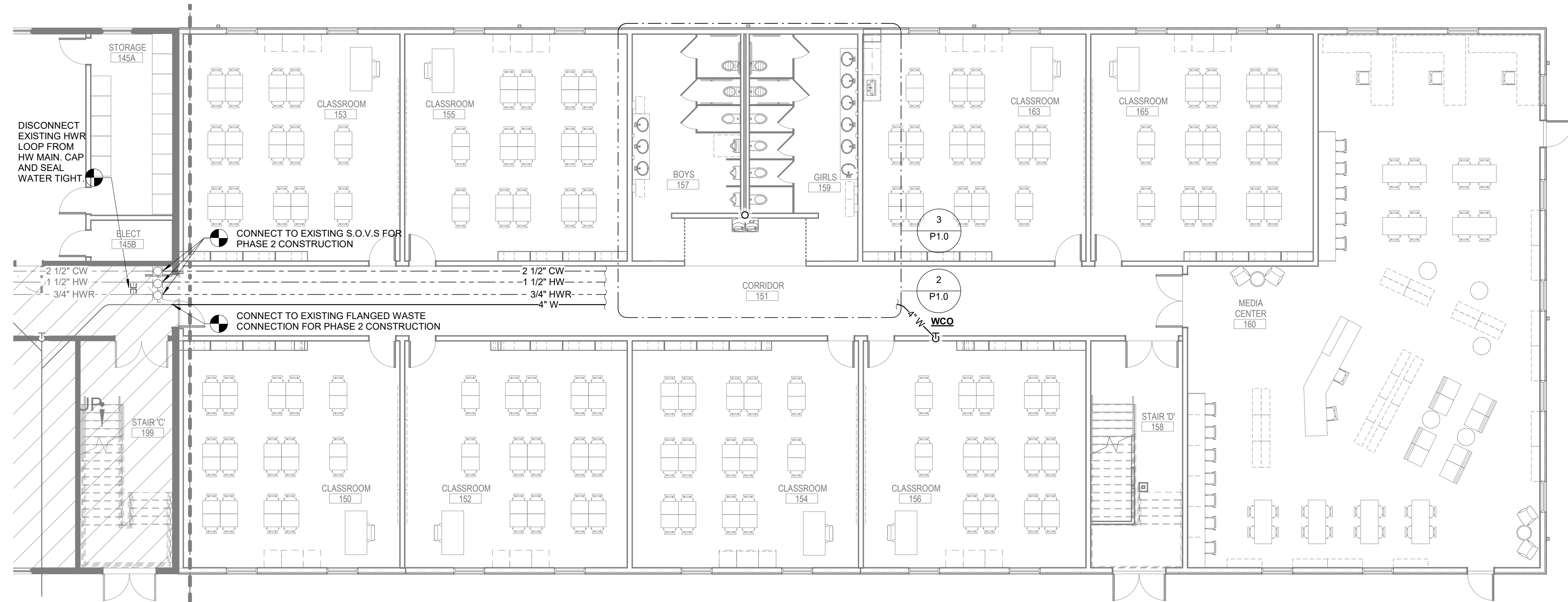
Carolina Charter Academy Exp.
 8529 Highway 55
 Angier, North Carolina 27501

Owner
Highmark School Development
 746 East Winchester Street
 Suite 150
 Murray, Utah 84107
 801-256-9550

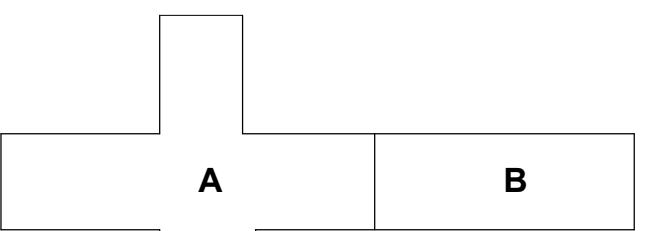
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1 LEVEL 1 - PLUMBING PLAN - AREA B
 1/8" = 1'-0"



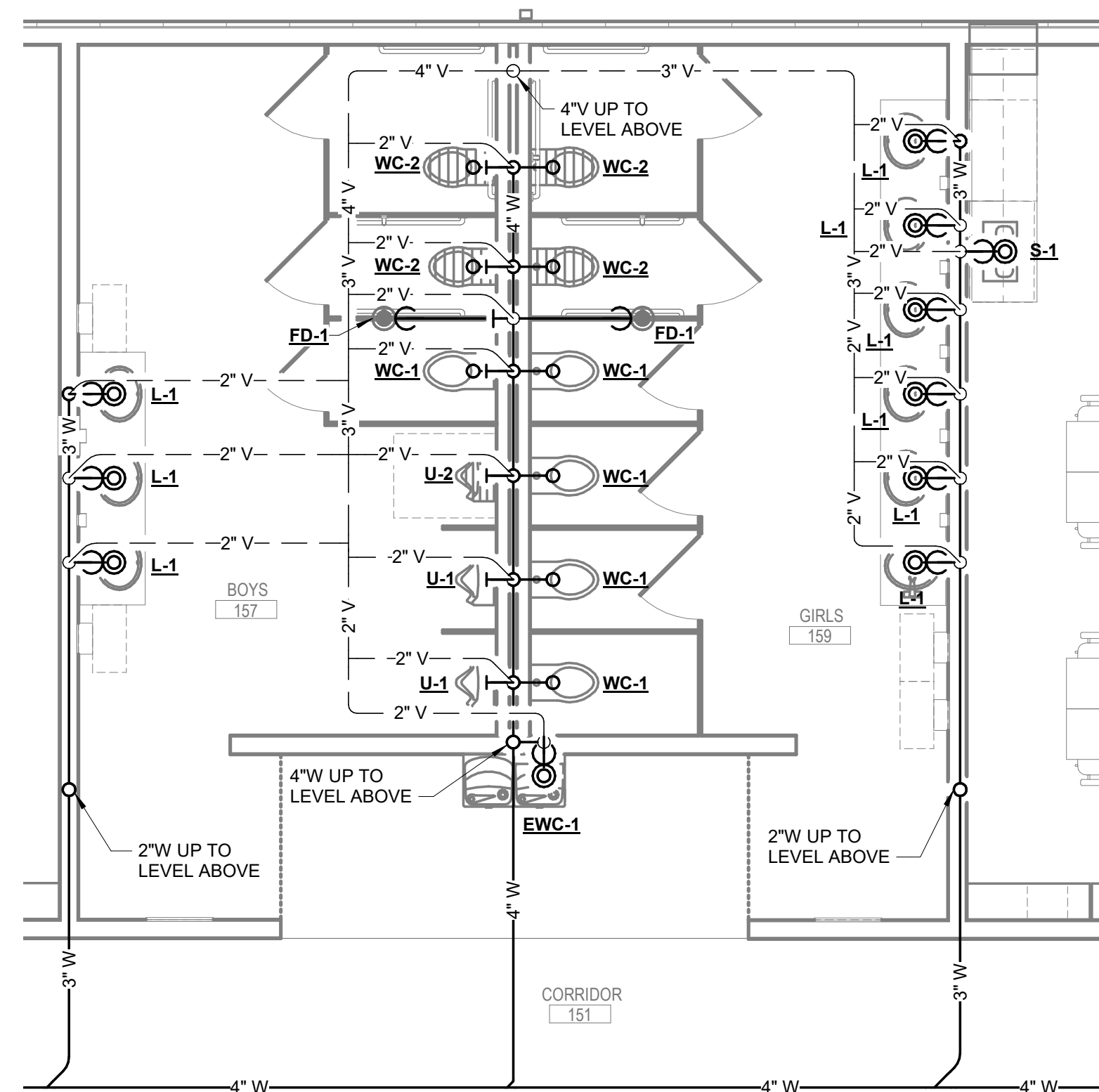
KEY PLAN

SEAL | DATE

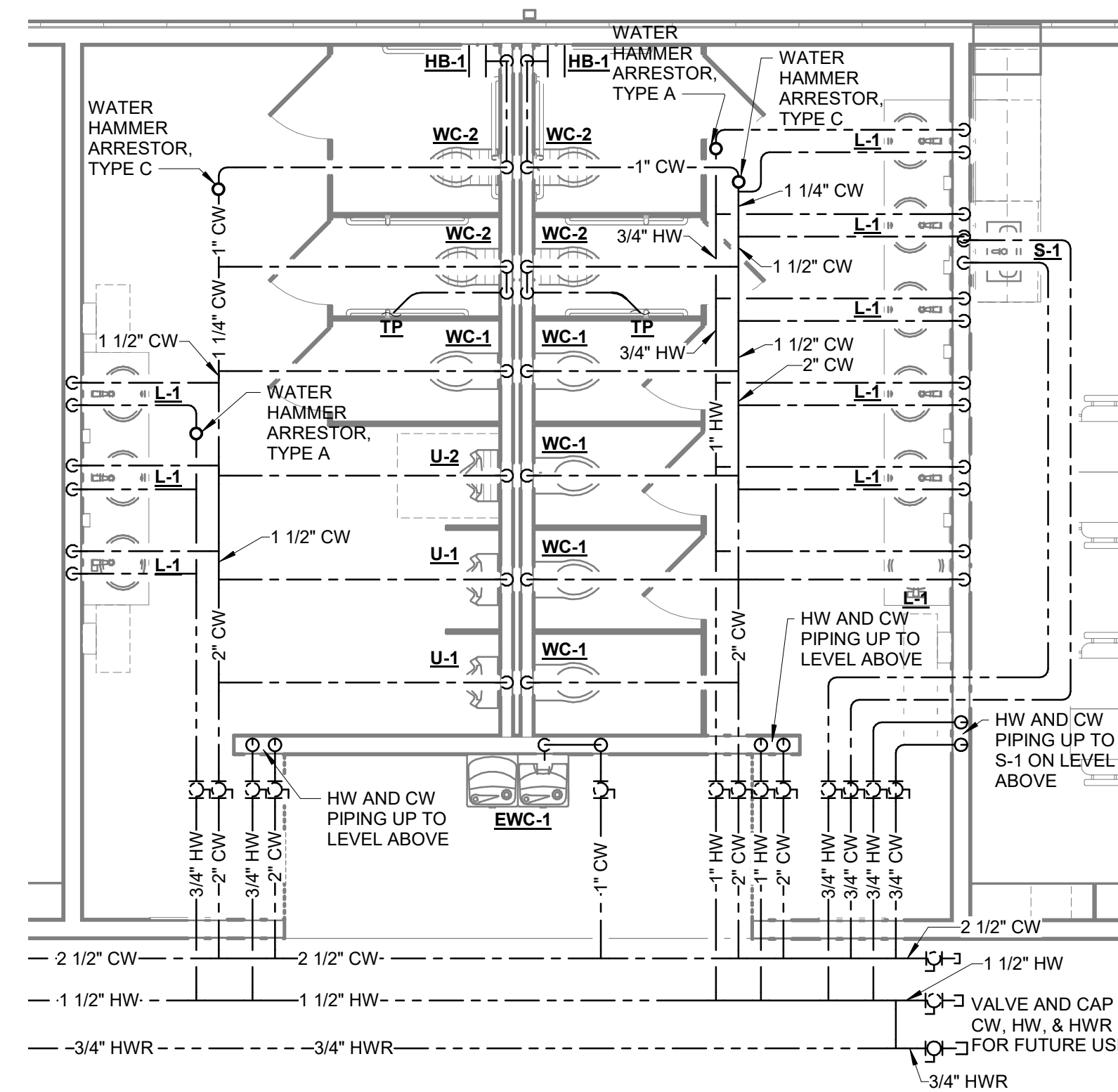


SHEET ISSUE

NO.	DESCRIPTION	DATE
1	PERMIT SUBMITTAL	02/22/21



2 LEVEL 1 - ENLARGED DRAINAGE PLAN
 1/4" = 1'-0"



3 LEVEL 1 - ENLARGED SUPPLY PLAN
 1/4" = 1'-0"



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PROJECT NO. 20408.000

SHEET TITLE
PLUMBING PLAN - LEVEL 1

SHEET NUMBER

P1.0

peak systems engineering

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 LICENSE NO: #C-4704

PROJECT NO: 121006

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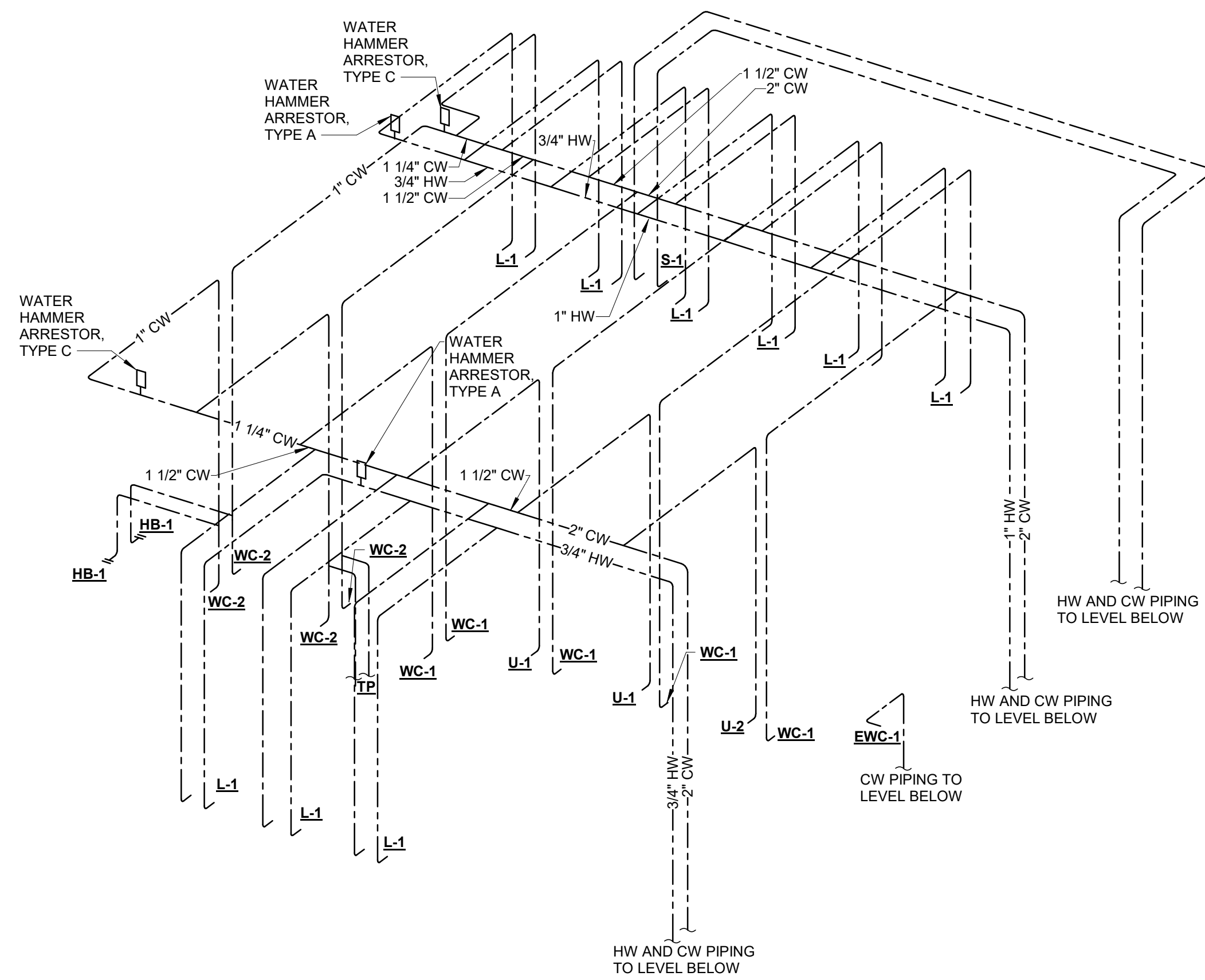
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Owner
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Suite 150
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801-256-9550

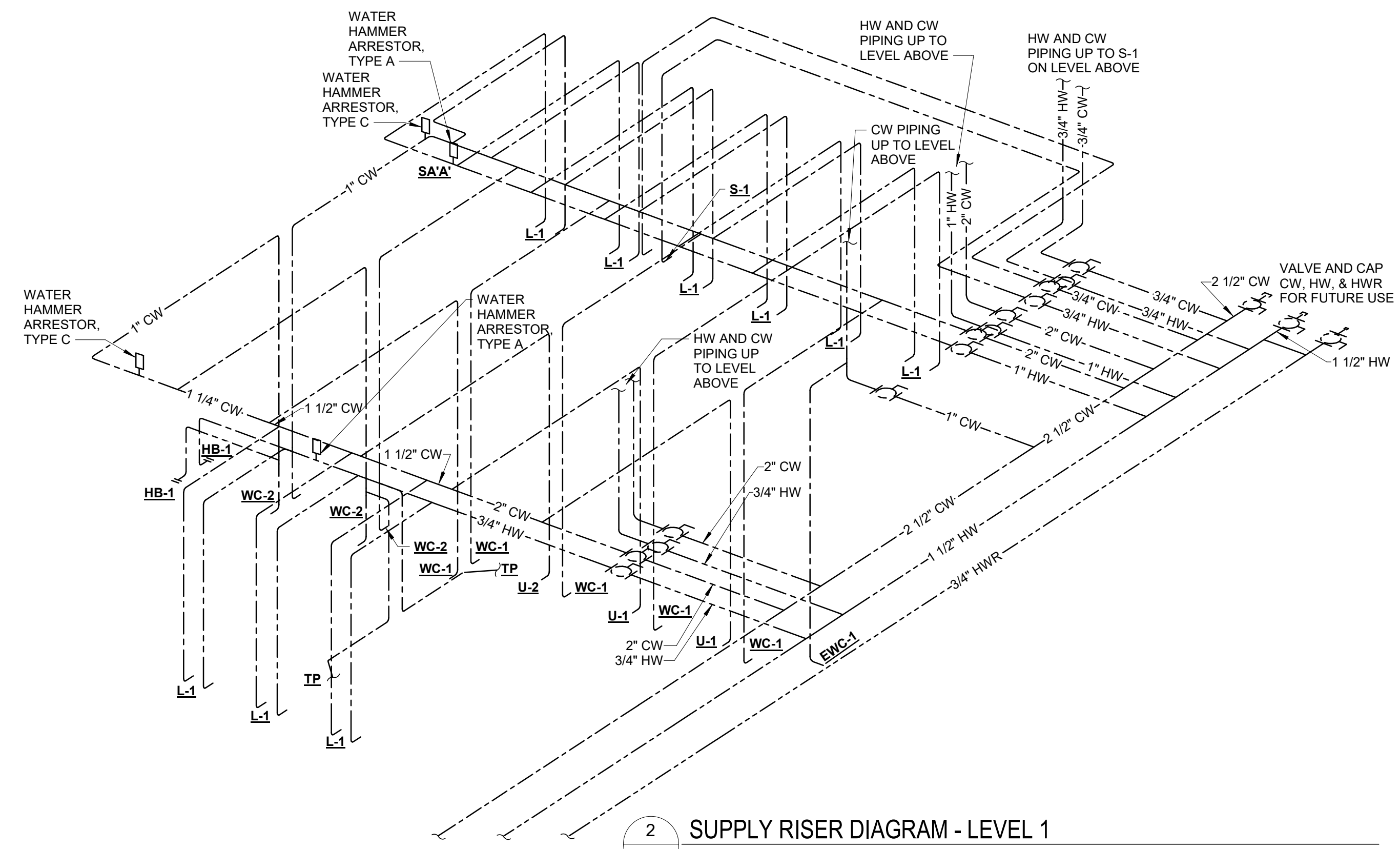
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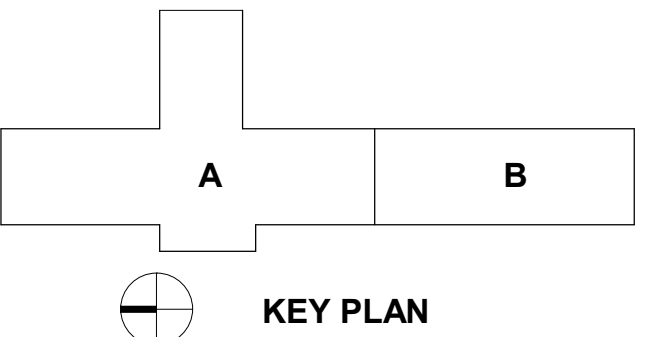
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919-866-4938



1 SUPPLY RISER DIAGRAM - LEVEL 2
P6.0 NOT TO SCALE



2 SUPPLY RISER DIAGRAM - LEVEL 1
P6.0 NOT TO SCALE

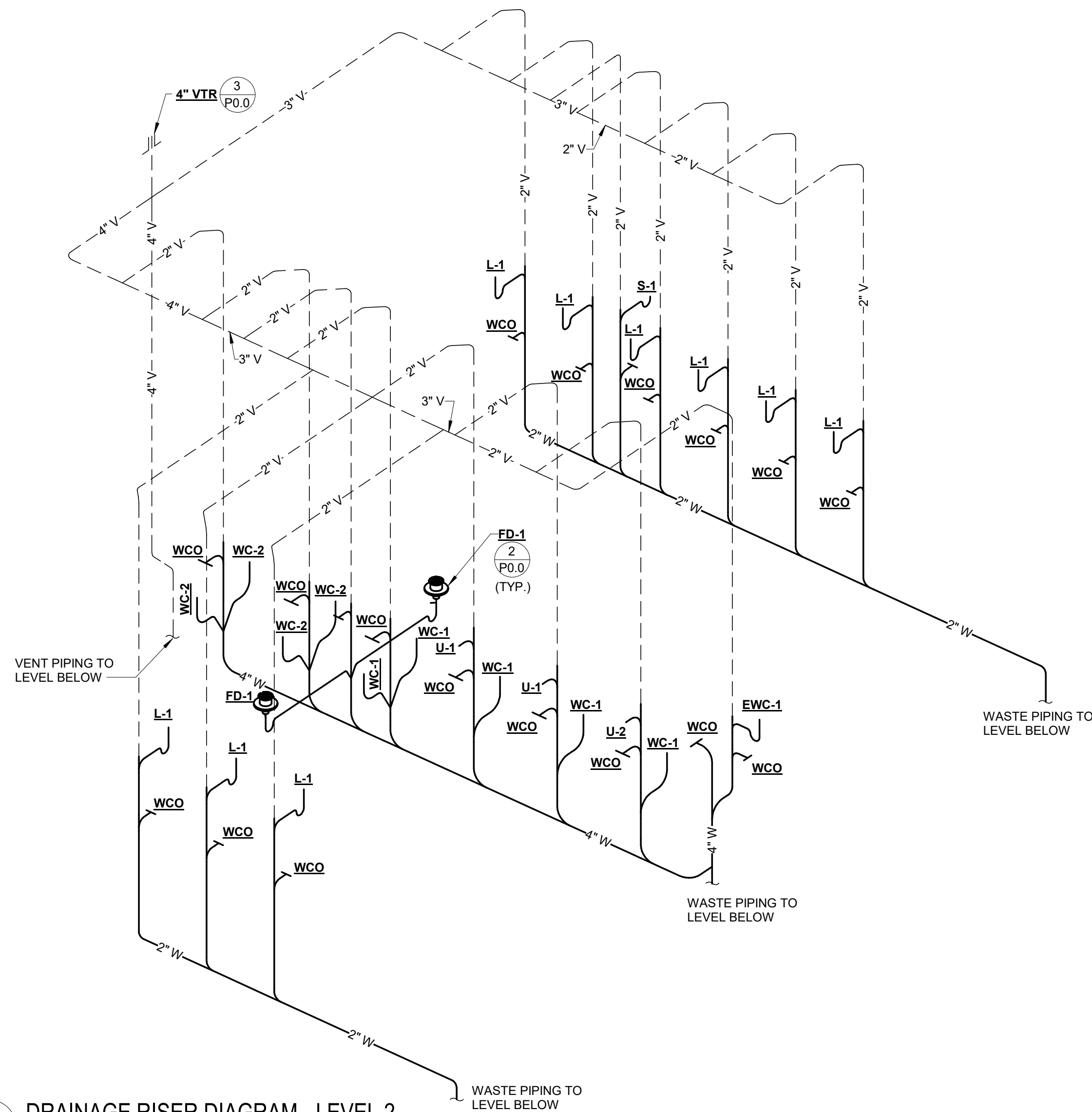


SEAL | DATE

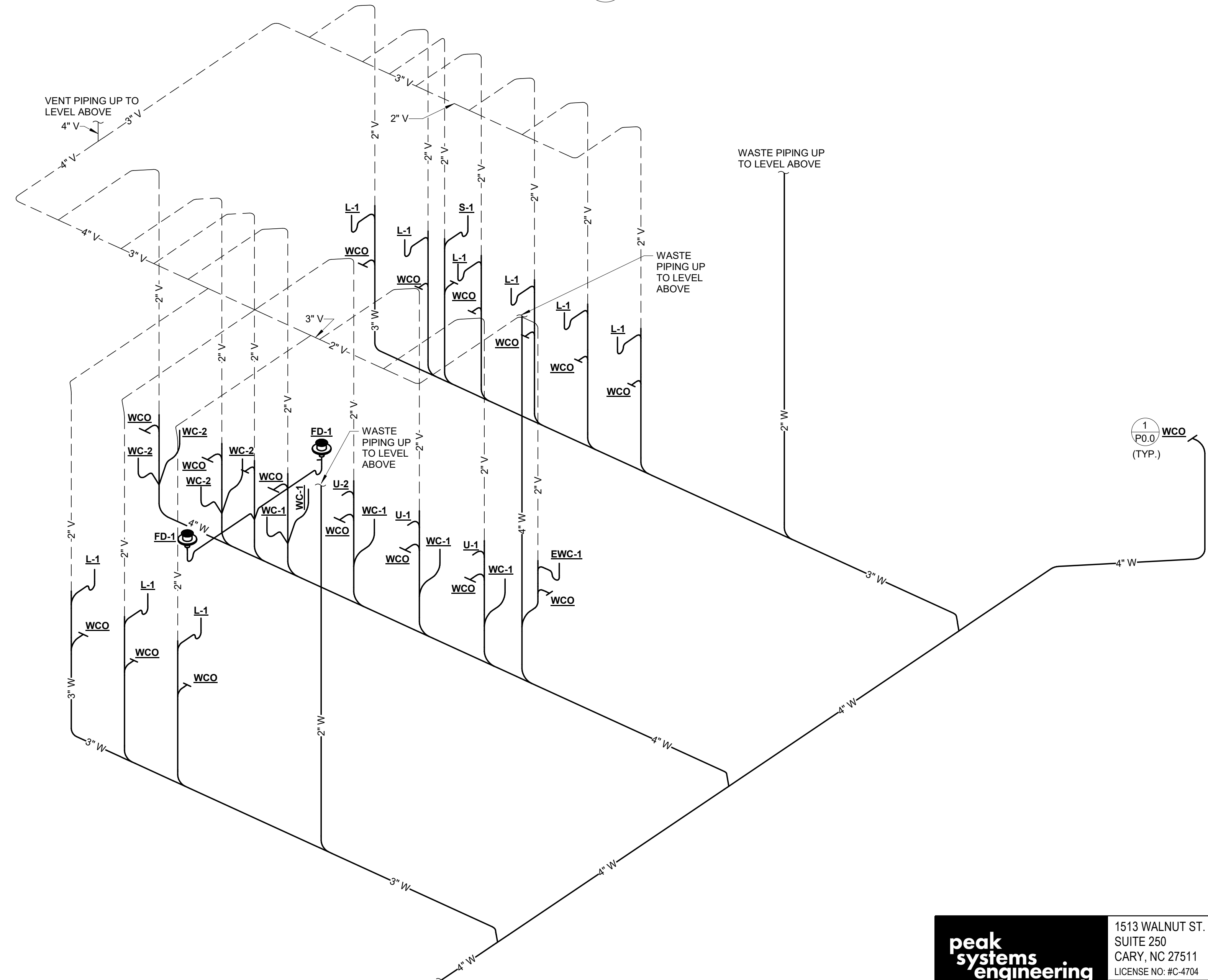


SHEET ISSUE

NO.	DESCRIPTION	DATE
1	PERMIT SUBMITTAL	02/22/21



3 DRAINAGE RISER DIAGRAM - LEVEL 2
P6.0 NOT TO SCALE



4 DRAINAGE RISER DIAGRAM - LEVEL 1
P6.0 NOT TO SCALE

peak systems engineering

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PROJECT NO: 121006

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RATIO

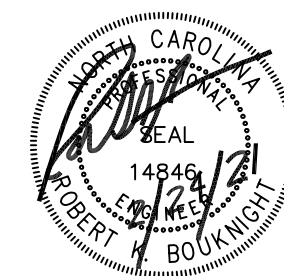
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PROJECT NO. 20408.000

SHEET TITLE
PLUMBING RISER DIAGRAMS

SHEET NUMBER

P6.0



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PLEASANT
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336-420-2686
RKB@RKBENG.COM

GENERAL MECHANICAL NOTES:

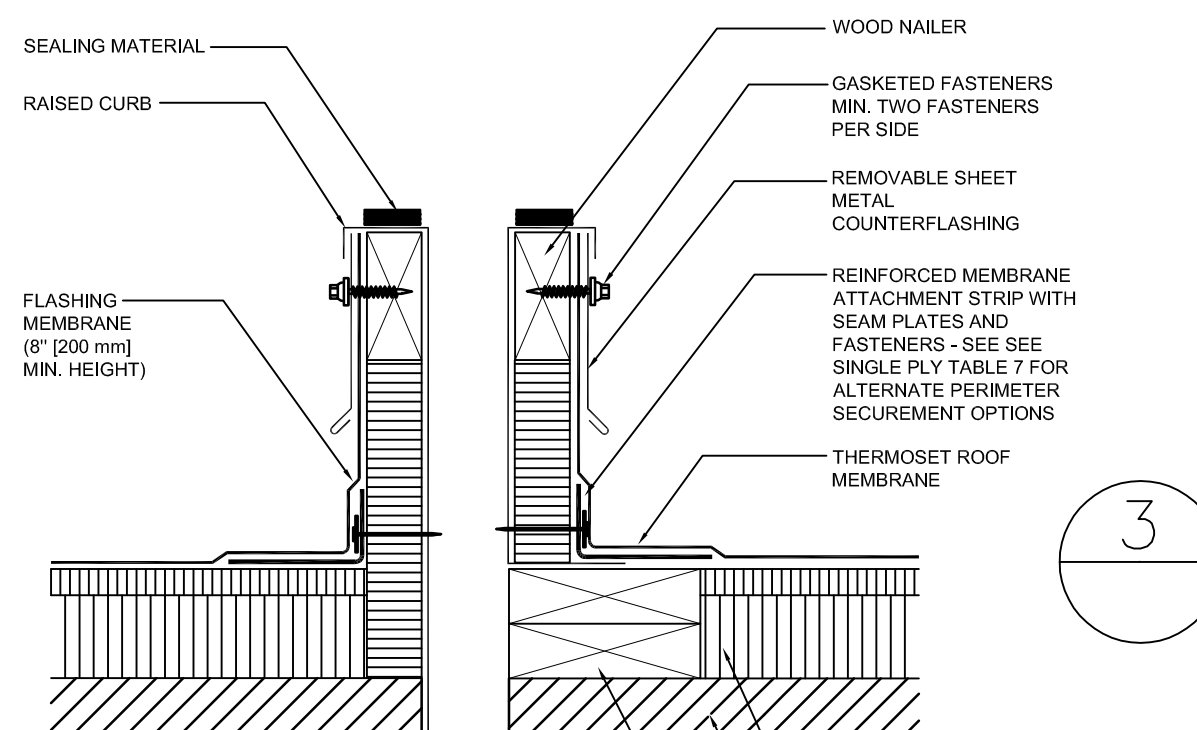
- ALL PIPING PENETRATIONS THRU SMOKE AND FIRE WALLS SHALL BE SEALED WITH APPROPRIATE UL RATED/LISTED SEALANT.
- ALL OUTSIDE AIR INTAKES SHALL BE LOCATED 10'-0" MIN. FROM ANY VENT/EXHAUST TERMINAL.
- BRANCH DUCT CONNECTION TO DIFFUSER OR GRILLE MAY HAVE 7'-0" LONG MAX. FLEX DUCT CONNECTOR
- COORDINATE DUCTWORK AND PIPING INSTALLATIONS WITH BUILDING ELEMENTS AND OTHER TRADES. DUCT AND PIPING ROUTING ON PLANS ARE DIAGRAMATIC. ADDITIONAL DUCTWORK AND OFFSETS MAY BE REQUIRED TO INSTALL DUCTWORK AND PIPING IN ACTUAL FIELD CONDITIONS. MAINTAIN MANUFACTURERS SERVICE CLEARANCES FOR ALL EQUIPMENT.
- PROVIDE TEST AND BALANCE. BALANCE ALL FAN AND AIR CONDITIONING SYSTEM TO CFM'S INDICATED ON PLANS. PROVIDE NEW SHEAVES AS REQ'D. & FURNISH BALANCE REPORT TO ENGINEER. PROVIDE "COMFORT BALANCE" TO AIRFLOWS TO ACCOMMODATE OCCUPANT COMFORT AFTER OCCUPANCY.
- INSULATE ALL INDOOR SUPPLY DUCTWORK WITH 2.2" FG BLANKET WITH SEALED FSK VAPOR BARRIER.
- BLANK OFF OPENINGS WHERE DUCTS TRAVEL DOWN TO FIRST LEVEL WITH SHEET METAL AND MINERAL WOOL AT SECOND FLOOR LEVEL.

PACKAGE ROOFTOP SCHEDULE

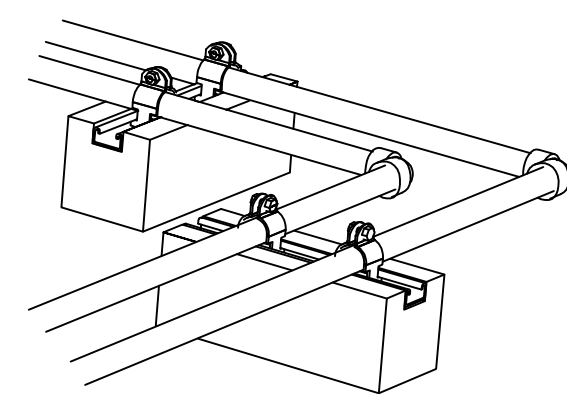
TAG	SUPPLY FAN				MIN. O/A	COOLING COIL			HEATING SECTION			UNIT		MANUF./MODEL	REMARKS	WEIGHTS (APPX)	
	CFM	ESP (IN. H ₂ O)	BHP	RPM		TOT MBH (MIN)	SENS MBH (MIN)	COIL EAT DB/WB (°F)	TOT MBH INPUT	TOT MBH OUTPUT	COIL EAT DB (°F)	VOLTAGE	MCA				MOP
RTU-1-1	1841	1	X	X	400	60	48	80/67	60	49	60	480/3P	12	15	TRANE	1-B	1200
RTU-1-2	1841	1	X	X	400	60	48	80/67	60	49	60	480/3P	12	15		1-B	1200
RTU-1-3	1853	1	X	X	400	60	48	80/67	60	49	60	480/3P	12	15		1-B	1200
RTU-1-4	1840	1	X	X	400	60	48	80/67	60	49	60	480/3P	12	15		1-B	1200
RTU-1-5	3496	1	X	X	425	120	90		120	96	60	480/3P	22	25		1-B	1600
RTU-2-1	2277	1	X	X	430	72	58	80/67	80	64	60	480/3P	15	20		1-B	1400
RTU-2-2	2277	1	X	X	430	72	58	80/67	80	64	60	480/3P	15	20		1-B	1400
RTU-1-1	1947	1	X	X	400	60	48	80/67	60	49	60	480/3P	12	15		1-B	1200
RTU-1-1	1997	1	X	X	400	60	48	80/67	60	49	60	480/3P	12	15		1-B	1200

REMARKS / ACCESSORIES

- PROVIDE INTEGRATED HOT GAS REHEAT COIL AND DEHUMIDIFICATION CYCLE.
- PROVIDE HUMIDITY SENSORS INTEGRAL TO PROGRAMMABLE THERMOSTATS.
- PROVIDE NEW SHEAVES AS REQUIRED TO MEET REQUIRED AIRFLOW, CFM'S. PROVIDE TEST & BALANCE REPORT.
- PROVIDE 30% 2" PLEATED FILTERS.
- PROVIDE DDC INTERNAL CONTROLS AND PROGRAMMABLE THERMOSTATS. WHERE INDICATED, PROVIDE AN ADDITIONAL SENSOR AND AVERAGE TWO ROOMS.
- PROVIDE ECONOMIZER WITH FAN POWERED RELIEF.
- PROVIDE CO2 SENSOR, DEMAND CONTROL VENTILATION OA DAMPER OPERATION. SET OA AIRFLOW AT 75% OA CALCULATED ABOVE.
- STOP OPERATION IF FIRE ALARM (SMOKE DETECTORS AND CO SENSORS BY EC) DETECTS PRODUCTS OF COMBUSTION OR CO



3 ROOF PIPING SUPPORT
NOT TO SCALE



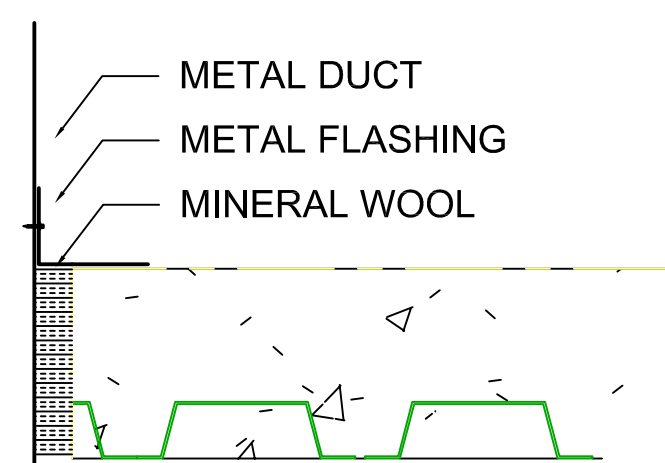
RETURN SIZE SCHEDULE

AIRFLOW RANGE, CFM	ROUND DUCT AND FLEX SIZE
8"	0-180
10"	181-280
12"	281-400
14"	401-580
16"	581-725
18"	726-925

AIR RUNOUT SCHEDULE

AIRFLOW RANGE, CFM	ROUND DUCT AND FLEX SIZE
4"	0-40
5"	41-70
6"	71-120
7"	121-165
8"	166-225
10"	226-325
12"	326-500
14"	501-1000

SIZES ON PLANS SHEETS SUPERCEDE SCHEDULE. PROVIDE MULTIPLES IF NECESSARY FOR ROOM AIRFLOW.

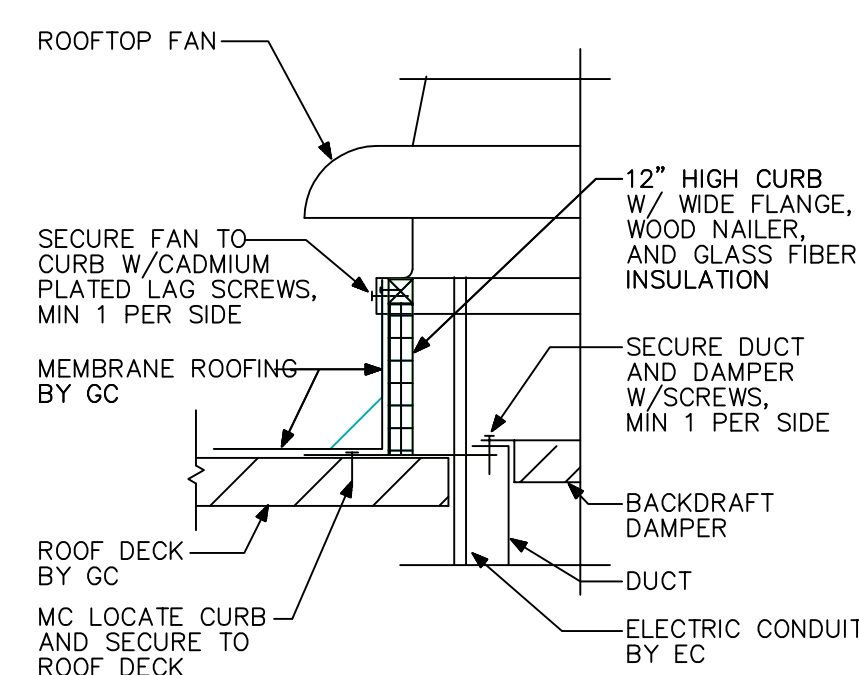


2 DUCT FLOOR PENETRATION
NOT TO SCALE

FAN SCHEDULE

TAG	SERVICE	TYPE	CFM	ESP (IN. H ₂ O)	RPM	BHP	HP	MAX SOUND SONES	VOLTAGE	MANUFACTURER	MODEL	REMARKS
EF-1-1	BATH EXH	CEILING	300	.5	-	-	-	7	120/1P	GREENHECK	SP	2,3
EF-1-2	BATH EXH	CEILING	300	.5	-	-	-	7	120/1P	GREENHECK	SP	2,3
EF-1-2	BATH EXH	ROOF DB DD	600	.5	-	-	-	7	120/1P	GREENHECK	SP	1,3

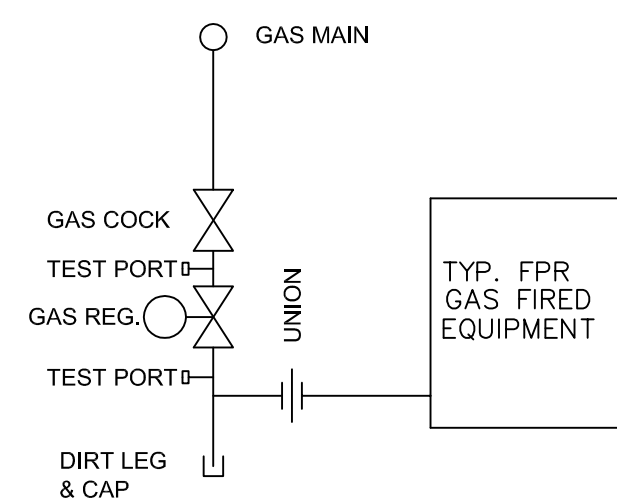
- PROVIDE CURB, INT. DISCONNECT, BIRD SCREEN, SPEED SWITCH, SS FASTENERS, BD DAMPER.
- PROVIDE WITH SPEED SWITCH, BACKDRAFT DAMPER, WALL CAP.
- CONTROL WITH TIME CLOCK.



4 ROOF CURB DETAIL
NOT TO SCALE

5 FAN CURB DETAIL

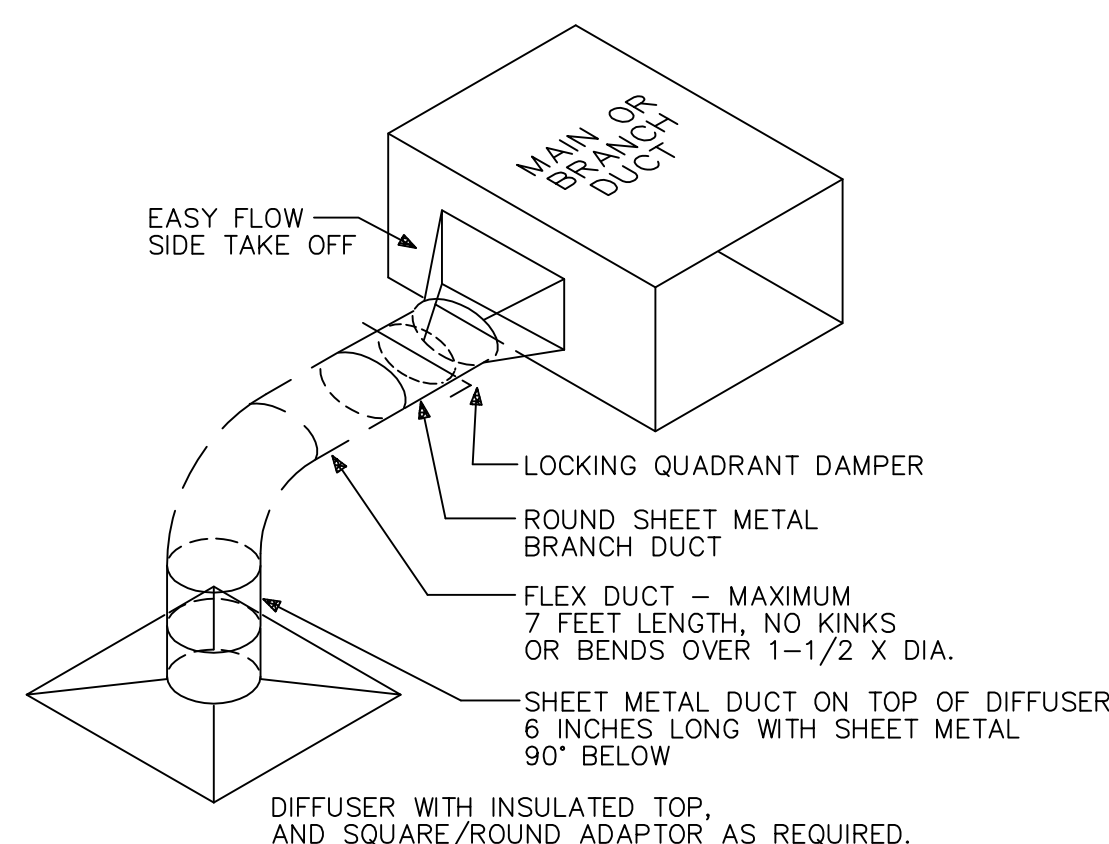
NOT TO SCALE



NOTE: PAINT ALL GAS PIPING WITH YELLOW OIL BASED PAINT.

6 TYPICAL GAS CONNECTION

NO SCALE



1 TYPICAL DIFFUSER DETAIL
NOT TO SCALE

AIR TERMINAL SCHEDULE

DEVICE	SYMBOL	MFG.	MODEL	DESCRIPTION	DAMPER	COLOR	REMARKS
CEILING DIFFUSER		NAILOR	RNS	SQUARE, LOUVERED FACE, STEEL CONSTRUCTION, ROUND NECK ADAPTOR 24x24 T-BAR MTD., INSULATED TOP	NO	WHITE	1,2,3
RETURN AIR REGISTER		NAILOR	4360	PREFORATED FACE RETURN REGISTER, STEEL CONSTRUCTION, REMOVABLE FACE, FOR 24x24 LAY-IN TBAR FRAME	NO	WHITE	1,3,4
SIDEWALL DIFFUSER		NAILOR	51DH	RECTANGLE SIDEWALL TYPE, STEEL CONSTRUCTION WITH ADAPTOR DOUBLE DEFLECTION, ADJUSTABLE	NO	WHITE	
RETURN SIDEWALL DIFFUSER		NAILOR	6145	35° FIXED DEFLECTION, BLADES SPACED AT 3/4", STEEL, RECTANGULAR NECK FLANGE FRAME, SEE PLANS FOR SIZES	NO	WHITE	
RND SUPPLY DIFFUSER		NAILOR	RNR	ROUND CEILING DIFFUSER WITH QBD 24x24 CEILING, INSULATED TOP	NO	WHITE	
MODULATING DIFFUSER		RICKARD	-	HEATING-COOLING MODULATING DIFFUSER WITH ACTION CHANGE OVER, HEAT MODULATION 24x24 CEILING, INSULATED TOP	NO	WHITE	

REMARKS/ACCESSORIES:

- PROVIDE PLASTER FRAMES FOR DIFFUSERS MOUNTED IN HARD SURFACES
- ARROWS INDICATE DIFFUSERS OTHER THAN 4-WAY BLOW. PROVIDE DIFFUSERS WITH INDICATED BLOW DIRECTIONS.
- WHERE PLANS INDICATE, FURNISH 12x12 FACE SIZE DIFFUSERS.
- PROVIDE SOUND TRAP ELBOW FOR ALL PLENUM RETURN DIFFUSERS - TAG B

SPLIT SYSTEM SCHEDULE

MARK	GENERAL DATA				COOLING CAPACITY				HEAT PUMP HEATING CAPACITY-NA					
	CFM TOTAL	CFM O.A.	SEER	COP	VOLTAGE	MCA	MOCP	TOTAL MBH	SENS. MBH	OAT °Fdb/°Fwb	TOTAL BTH/H	OAT °Fdb	TOTAL BTH/H	OAT °Fdb
MS-1	350	--	18	2.9	208/1P	7	15	12	10	95/75	NA	47	NA	17

REMARKS/ACCESSORIES:

- RUN LIQUID AND SUCTION LINES IN MOST INCONSPICUOUS ROUTE TO CONDENSING UNIT
- PROVIDE PROGRAMMABLE TSTATS BY UNIT MANUFACTURER, MOUNTED 54" TO 60" A.F.F. PROVIDE WIRING FROM INDOOR TO OUTDOOR UNIT.
- PROVIDE LOW AMBIENT OPERATION, FLOAT SWITCH TO STOP OPERATION IF CONDENSATE DRAIN FAILS. PROVIDE CONDENSATE PUMP

REVISIONS

REV. BY DATE DESCRIPTION

REVISIONS

REV. BY DATE DESCRIPTION

TITLE: CAROLINA CHARTER ACADEMY
2021 ADDITION
8529 NC-55
ANGIER, NC
CUSTOMER: SWINERTON CONSTRUCTION
JOB No. | SHEET No. | SCALE |

DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: RKB
APPROVED BY: RKB
DRAWING NUMBER:
MO.1
SCHEDULES/DETAILS

DATE: | DATE: | DATE: | DATE: |

MECHANICAL TECHNOLOGIES & SOLUTIONS, LLC.
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Winston-Salem, NC 27107
Phone (336) 394-5166 Fax (336) 654-7112
www.mshinc.com

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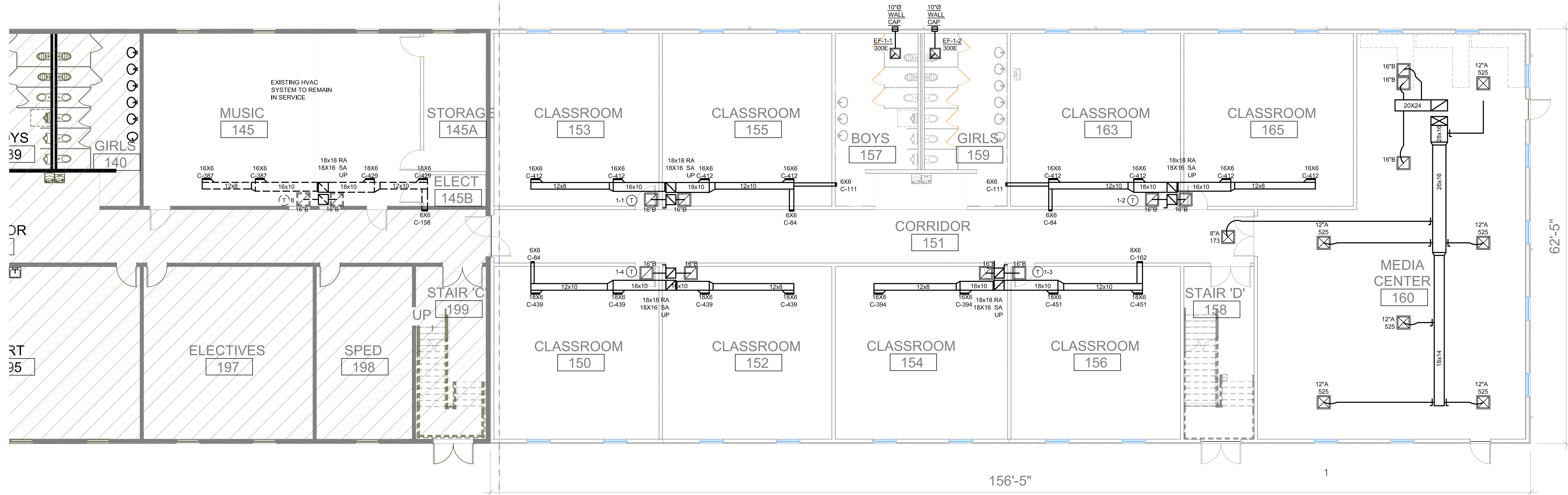


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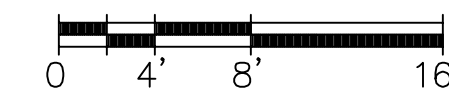
Zone Name / Space Name	Mult.	Supply Air (CFM)	Floor Area (ft ²)	OA Floor Rate (CFM)	Timed Average Occupancy	People OA Rate (CFM/Person)	Air Dist. Eff. (Ez)	Space Required OA (CFM) Voz	Breathing Zone OA (CFM) Vz
RTU-1-1									
153 CLRM	1	823	650	0.12	26	10	0.8	423	338
155 CLRM(1)	1	823	650	0.12	26	10	0.8	423	338
157 BATH	1	111	288	0.06	1	0	0.8	22	17
1 CORRIDOR QUARTER(1)	1	84	250	0.06	1	0	0.8	19	15
Totals (incl. Space Multipliers)		1841							708
RTU-1-2									
163 CLRM(1)	1	823	650	0.12	26	10	0.8	423	338
165 CLRM(2)	1	823	650	0.12	26	10	0.8	423	338
157 BATH	1	111	288	0.06	1	0	0.8	22	17
1 CORRIDOR QUARTER(1)	1	84	250	0.06	1	0	0.8	19	15
Totals (incl. Space Multipliers)		1841							708
RTU-1-3									
154 CLRM(3)	1	788	650	0.12	26	10	0.8	423	338
156 CLRM(2)	1	902	650	0.12	26	10	0.8	423	338
158 STAIR HALF	1	162	150	0.06	1	0	0.8	11	9
Totals (incl. Space Multipliers)		1853							685
RTU-1-4									
150 CLRM(1)	1	878	650	0.12	26	10	0.8	423	338
152 CLRM(2)	1	878	650	0.12	26	10	0.8	423	338
1 CORRIDOR QUARTER(1)	1	84	250	0.06	1	0	0.8	19	15
Totals (incl. Space Multipliers)		1840							691
RTU-1-5									
Zone 1									
160 MEDIA	1	2789	2076	0.12	50	10	0.8	936	749
158 STAIR HALF	2	174	150	0.06	1	0	0.8	11	9
2 CORRIDOR QUARTER	2	180	250	0.06	1	0	0.8	19	15
Totals (incl. Space Multipliers)		3496							797



AREA A AREA B

HVAC FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"



REVISIONS

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TITLE: CAROLINA CHARTER ACADEMY
2021 ADDITION
8529 NC-55
ANGIER, NC
CUSTOMER: SWINERTON CONSTRUCTION
JOB No. SHEET No. SCALE:

DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: RKB
APPROVED BY: RKB
DRAWING NUMBER: **M1.1A**
HVAC 1ST LEV PLAN

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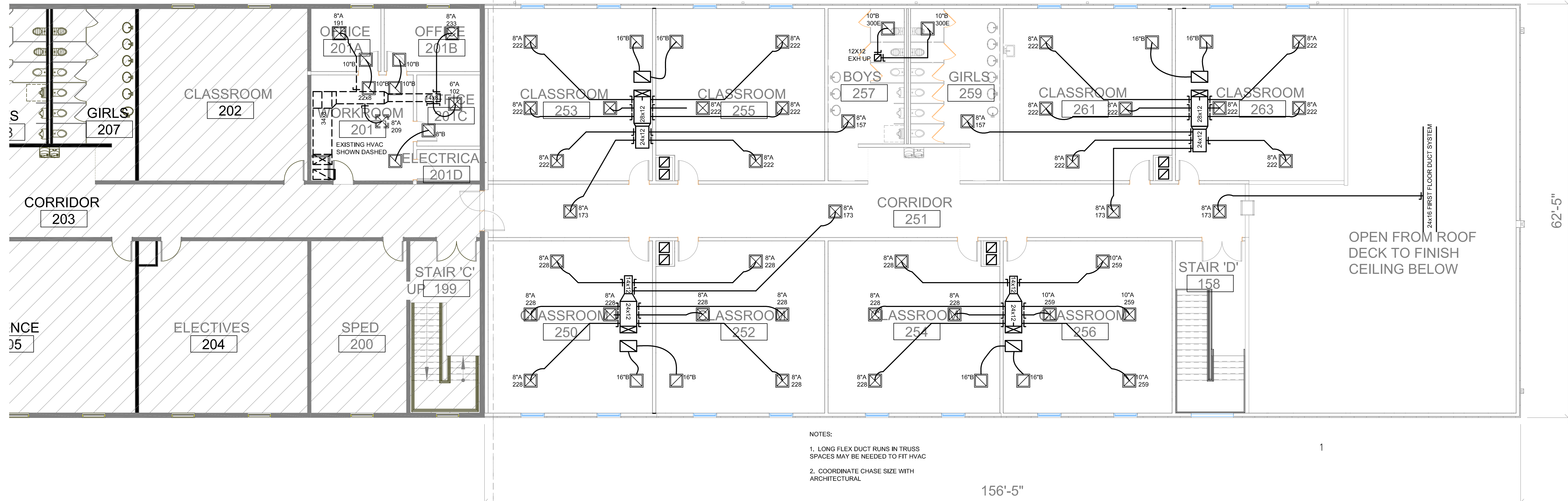
AREA A AREA B



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Zone Name / Space Name	Mult.	Supply Air	Floor Area	OA Floor	Timed	People OA	Air Dist Eff.	Space	Breathing
		(CFM)	(ft ²)	Rate	Average	Rate	(Ez)	Required OA	Zone OA
					Occupancy	(CFM/Person)		(CFM) Voz	(CFM) Vbz
RTU-2-1									
253 CLRM(1)	1	887	650	0.12	26	10	0.8	423	338
255 CLRM(2)	1	887	650	0.12	26	10	0.8	423	338
257 BATH(1)	1	157	288	0.06	1	0	0.8	22	17
2 CORRIDOR QUARTER	2	173	250	0.06	1	0	0.8	19	15
Totals (incl. Space Multipliers)		2277							723
RTU-2-2									
261 CLRM(3)	1	887	650	0.12	26	10	0.8	423	338
263 CLRM(4)	1	887	650	0.12	26	10	0.8	423	338
257 BATH(1)	1	157	288	0.06	1	0	0.8	22	17
2 CORRIDOR QUARTER	2	173	250	0.06	1	0	0.8	19	15
Totals (incl. Space Multipliers)		2277							723
RTU-2-3									
254 CLRM(4)	1	912	650	0.12	26	10	0.8	423	338
256 CLRM(5)	1	1035	650	0.12	26	10	0.8	423	338
Totals (incl. Space Multipliers)		1947							676
RTU-2-4									
250 CLRM(2)	1	912	650	0.12	26	10	0.8	423	338
252 CLRM(3)	1	912	650	0.12	26	10	0.8	423	338
2 CORRIDOR QUARTER	1	173	250	0.06	1	0	0.8	19	15
Totals (incl. Space Multipliers)		1997							691



NOTES:
1. LONG FLEX DUCT RUNS IN TRUSS SPACES MAY BE NEEDED TO FIT HVAC
2. COORDINATE CHASE SIZE WITH ARCHITECTURAL

AREA A AREA B

HVAC 2ND FLOOR PLAN

SCALE 1/8" = 1'-0"
0 4' 8' 16'

REVISIONS

REV. BY	DATE	DESCRIPTION

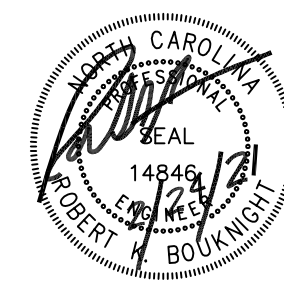
REVISIONS

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TITLE: CAROLINA CHARTER ACADEMY
2021 ADDITION
8529 NC-55
ANGIER, NC
CUSTOMER: SWINERTON CONSTRUCTION
JOB No. _____ SHEET No. _____ SCALE: _____

DESIGNED BY: RKB
DRAWN BY: RKB
CHECKED BY: RKB
APPROVED BY: RKB
DRAWING NUMBER: M1.2
HVAC 2ND LEV PLAN

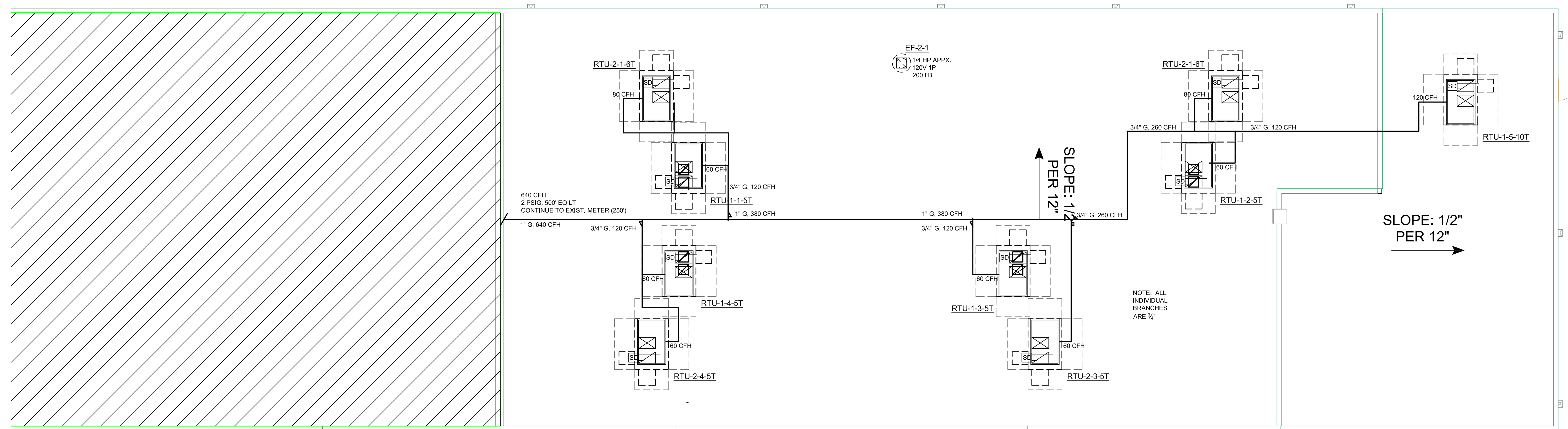
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AREA A AREA B

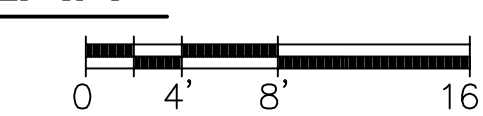


- NOTES:
1. SMOKE DETECTORS FURNISHED BY EC, MC TO INSTALL. SD TO STOP UNIT OPERATION UPON ALARM.
 2. GAS PIPING TO CONNECT TO EXISTING METER

AREA A AREA B

HVAC ROOF PLAN

SCALE 1/8" = 1'-0"



DESIGNED BY: RKB	DATE:	REVISED BY:	DATE:
DRAWN BY: RKB	DATE:	CHECKED BY:	DATE:
CHECKED BY:	DATE:	APPROVED BY: RKB	DATE:
DRAWING NUMBER:	M1.3		
TITLE:	CAROLINA CHARTER ACADEMY 2021 ADDITION		
CUSTOMER:	SWINERTON CONSTRUCTION		
PROJECT NO.:	8529 NC-55	ANGIER, NC	
SHEET NO.:	1	SCALE:	

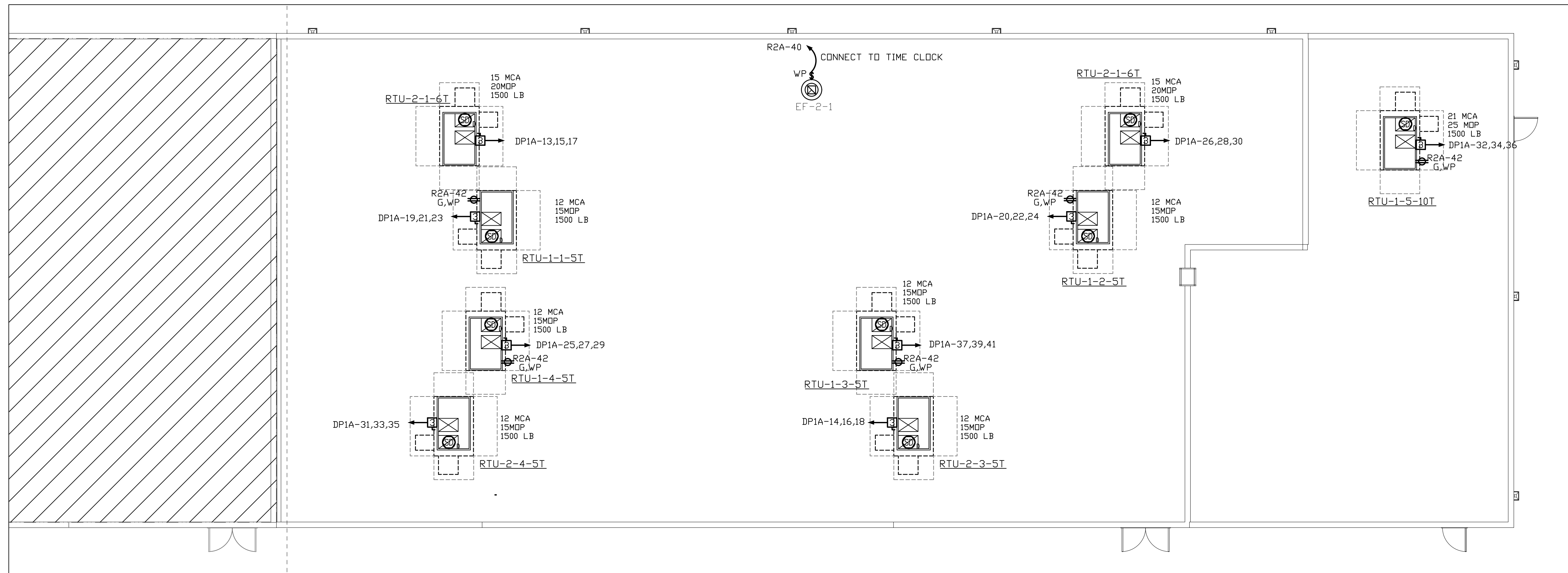
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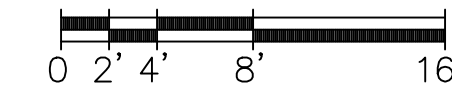
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GENERAL NOTES

- CONDUIT RACEWAYS SHOWN ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR PROVIDING APPROPRIATE WIRE COUNTS WITHIN RACEWAYS TO MAKE SYSTEM FUNCTION AS SHOWN/INDICATED ON PLANS.
- CONTRACTOR TO PROVIDE SEPARATE NEUTRALS PER NEC 2017.
- ALL EXITS AND EMERGENCY LIGHTING UNITS SHALL BE CONNECTED TO UNSWITCHED LIGHTING CIRCUITRY IN AREA WHICH IT IS LOCATED. PROVIDE CIRCUITRY FOR COMPLETE INSTALLATION.
- ALL STAND ALONE WALL BOX DIMMERS TO BE LUTRON NOVA SERIES MATCHED TO LOAD TYPE AND CAPACITY CONTROLLING. E.C. TO VERIFY CAPABILITY OF DIMMER WITH LUMINAIRES; SOME FIXTURES MAY BE LINE VOLTAGE AND SOME MAY REQUIRE 0-10V; E.C. TO VERIFY WITH LIGHTING SUPPLIER/CUT SHEETS PRIOR TO PLACING ORDER.
- ALL CABLING ABOVE LAY-IN CEILING TO BE PLENUM RATED. ALL CABLING TO BE IN CONDUIT (3/4" MINIMUM).
- ALL 120V HOMERUNS OVER 75 FEET IN LENGTH TO HAVE UPSIZED (ONE SIZE LARGER) WIRE FOR VOLTAGE DROP. SEE ARCHITECTURAL SHEETS FOR RATED WALL ASSEMBLIES; E.C. TO PROVIDE PROPER UL APPROVED METHODS FOR MAINTAINING FIRE RATINGS.
- E.C. TO PROVIDE ALL HARDWARE REQUIRED FOR SUPPORT/INSTALLATION OF LUMINAIRES.



ROOF ELECTRICAL - POWER & FA
SCALE 1/8" = 1'-0"

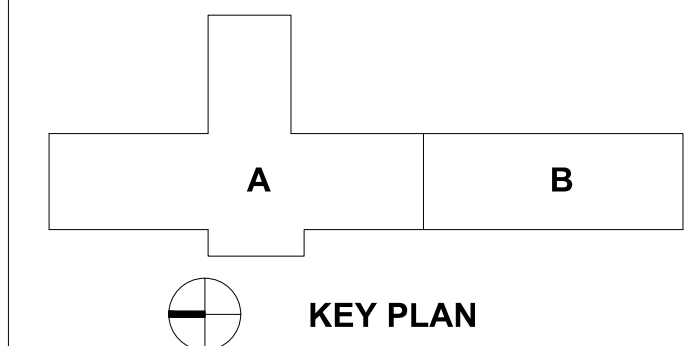


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SAMMY PHILLIPS ELECTRIC
345 NORTHWEST BLVD.
WINSTON-SALEM, NC
PHONE 336.722-3311



SEAL | DATE 2/12/2021

SHEET ISSUE		
1	50% Construction Documents	2/8/2021

LOCATED IN ELEC# 147

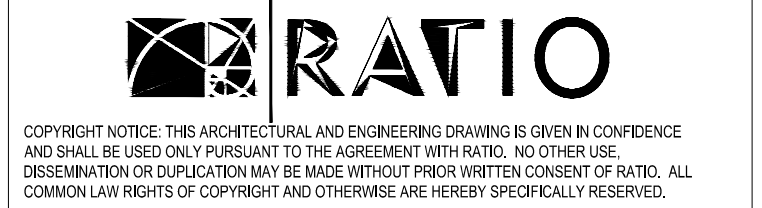
FED FROM PANEL-DPIA VIA 45 KVA XFMR

LOAD SERVED	VA PER PHASE			CKT BRKR	CKT NO.	NEUTRAL	CKT NO.	CKT BRKR	VA PER PHASE			LOAD SERVED									
	A	B	C						A	B	C										
REC-CLASSROOM 150	720			20/1	1		2	20/1	720			REC-CLASSROOM 153									
REC-CLASSROOM 152		720		20/1	3		4	20/1		720		REC-CLASSROOM 155									
REC-CLASSROOM 154			720	20/1	5		6	20/1	GFCI		720	HAND DRYER 157									
REC-CLASSROOM 156	720			20/1	7		8	20/1	GFCI	720		HAND DRYER 157									
REC-MEDIA 160		720		20/1	9		10	20/1	GFCI		720	HAND DRYER 159									
REC-MEDIA 160			720	20/1	11		12	20/1	GFCI		1200	HAND DRYER 159									
REC-MEDIA 160	720			20/1	13		14	20/1		720		REC-TLT 157,159, EWC									
REC-MEDIA 160		720		20/1	15		16	20/1			720	REC-CLASSROOM 163									
REC-MEDIA 160			720	20/1	17		18	20/1			720	REC-CLASSROOM 165									
REC-MEDIA 160	720			20/1	19		20	20/1		720		REC-CORRIDOR 151									
REC-MEDIA 160		720		20/1	21		22	20/1			720	REC-MUSIC 145, 146, 147									
SPARE				20/1	23		24	20/1				SPARE									
SPARE				20/1	25		26	20/1				SPARE									
SPARE				20/1	27		28	20/1				SPARE									
SPARE				20/1	29		30	20/1				SPARE									
SPARE				20/1	31		32	30/2				SPARE									
SPARE				20/1	33		34					SPARE									
SPARE				20/1	35		36	30/2				SPARE									
SPARE				GFCI	20/1	37	38					SPARE									
SPARE				GFCI	20/1	39	40	30/2				SPARE									
FIRE NAC				*	20/1	41	42					SPARE									
REMARKS	4320	4320	4320	SUB-TOTAL "B"			200A BUS	SUB-TOTAL "A"			5040	5040	5040	MIN. 18,000 A.I.C. SYM. AMPERES							
* DENOTES RED CIRCUIT BREAKER LOCKING DEVICE																					
GFCI - GROUND FAULT INTERRUPTER CIRCUIT BREAKER																					
	200A S/N			GRAND TOTAL			200A LUGS			SUB-TOTAL "B"			200A S/N			GRAND TOTAL			LUGS/PHASE (1) - #2/0		
				9360			9360			9360			9360			9360			LUGS/NEUT. (1) - #2/0		
				78			78			78			78			78			78		

LOCATED IN ELEC # 201D

FED FROM PANEL-DPIA VIA 45 KVA XFMR

LOAD SERVED	VA PER PHASE			CKT BRKR	CKT NO.	NEUTRAL	CKT NO.	CKT BRKR	VA PER PHASE			LOAD SERVED									
	A	B	C						A	B	C										
REC-201,201A	720			20/1	1		2	20/1	720			REC-CLASSROOM 253									
REC-OFFICE 201B, 201C, 201D		720		20/1	3		4	20/1		720		REC-CLASSROOM 255									
REC-CLASSROOM 250			720	20/1	5		6	20/1			1200	HAND DRYER 257									
REC-CLASSROOM 252	720			20/1	7		8	20/1	720			HAND DRYER 257									
REC-CLASSROOM 254		720		20/1	9		10	20/1		720	1200	HAND DRYER 259									
REC-CLASSROOM 256			720	20/1	11		12	20/1			1200	HAND DRYER 259									
SPARE				20/1	13		14	20/1		720		REC-257,259									
SPARE				20/1	15		16	20/1			720	REC-CLASSROOM 261									
SPARE				20/1	17		18	20/1			720	REC-CLASSROOM 263									
SPARE				20/1	19		20	20/1		720		REC-CORRIDOR 251									
SPARE				20/1	21		22	20/1				SPARE									
SPARE				20/1	23		24	20/1				SPARE									
SPARE				20/1	25		26	20/1				SPARE									
SPARE				20/1	27		28	20/1				SPARE									
SPARE				20/1	29		30	20/1				SPARE									
SPARE				20/1	31		32	30/2				SPARE									
SPARE				20/1	33		34					SPARE									
SPARE				20/1	35		36	30/2				SPARE									
SPARE				GFCI	20/1	37	38					SPARE									
SPARE				GFCI	20/1	39	40	30/2				SPARE									
FIRE NAC				*	20/1	41	42					SPARE									
REMARKS	4320	4320	4320	SUB-TOTAL "B"			200A BUS	SUB-TOTAL "A"			5040	5040	5040	MIN. 18,000 A.I.C. SYM. AMPERES							
* DENOTES RED CIRCUIT BREAKER LOCKING DEVICE																					
GFCI - GROUND FAULT INTERRUPTER CIRCUIT BREAKER																					
	200A S/N			GRAND TOTAL			200A LUGS			SUB-TOTAL "B"			200A S/N			GRAND TOTAL			LUGS/PHASE (1) - #2/0		
				9360			9360			9360			9360			9360			LUGS/NEUT. (1) - #2/0		
				78			78			78			78			78			78		



PROJECT NO. 20408.000

SHEET TITLE
Electrical - Roof Power & FA Plan; Panel Schedules

SHEET NUMBER

E-102

