# BOROUGH OF RUNNEMEDE HARRY WILLIAMS BUILDING ADDITION

### **Code Review Data:**

APPLICABLE BUILDING CODES & GUIDELINES

2021 INTERNATIONAL BUILDING CODE — NEW JERSEY EDIT
2021 NATIONAL STANDARD PLUMBING CODE
2020 NATIONAL ELECTRIC CODE (NFPA 70)
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL FUEL GAS CODE
NJUCC SUBCHAPTER 6 — REHABILITATION SUBCODE
2017 ICC/ANSI A117.1
ASHRAE 90.1—2019
BARRIER FREE SUBCODE N.J.A.C. 5:23—7
REHABILITATION SUBCODE N.J.A.C. 5:23—6

USE GROUP CLASSIFICATION (303.1)

A-3 ASSEMBL

TYPE OF CONSTRUCTION (CHAPTER 6)

HEIGHT LIMITATIONS (TABLE 504.3)

AREA LIMITATIONS (TABLE 506.2)

A-3 USE 9,500 SF (16,625 SF W/ FRONTAGE INCREASE OF 75%

ALLOWABLE STORIES (TABLE 504.4)

A-3 ASSEMBLY USE, 2 STORIES (NOT SPRINKLERED

AREA OF FLOOR PLAN:

A-3 ASSEMBLY INCL. LIBRARY, SENIOR CENTER, GYMNASUM, AND PROPOSED ADDITION: 16,124 SF A-3 ASSEMBLY PROPOSED ADDITION: 1,303 SF

OCCUPANT LOADS (TABLE 1004.1.2)

A-3 ASSEMBLY LOBBY AREA-5 NET SF FLOOR AREA PER OCCUPANT - 615 NET SF / 5 NET SF PER OCCUPANT = 123 OCCUPANTS MAXIMUM

COMMON PATH OF EGRESS TRAVEL (1006.2.1)

(A USE) WITHOUT SPRINKLER SYSTEM: 75'

TRAVEL DISTANCE (TABLE 1017.2)

(A USE) WITHOUT SPRINKLER SYSTEM: 200'

UPON RECEIPT OF SIGNED AND SEALED PLANS. IT IS THE RESPONSIBILITY OF THE OWNER / CONTRACTOR TO VERIFY THAT ALL DESIGN ISSUES AND REQUIREMENTS HAVE BEEN MET AND ALL PARTIES INVOLVED HAVE REVIEWED THE PLANS FULLY. ANY QUESTIONS OR DISCREPANCIES REGARDING THE PLANS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT **BEFORE** CONSTRUCTION BEGINS.

NOTE TO ALL BIDDERS:
"BID PACKAGE" IS INCLUSIVE OF ALL DRAWING SHEETS LISTED ON THIS COVER SHEET, ALL SPECIFICATIONS LISTED IN SPECIFICATION TABLE OF CONTENTS, AND ALL ADDENDA ISSUED PRIOR TO BID OPENING. BIDS SUBMITTED ARE ASSUMED TO BE COMPREHENSIVE AND ACCOUNTING FOR INFORMATION CONTAINED THROUGHOUT ENTIRE "BID PACKAGE". IT IS THE RESPONSIBILITY OF BIDDER TO PROVIDE ALL SUBCONTRACTORS, VENDORS, MATERIAL AND LABOR SUPPLIERS, ETC, WITH COMPLETE BID PACKAGE. FAILURE TO DO SO WILL NOT PRECLUDE RESPONSIBILITY TO PROVIDE ALL WORK DESCRIBED IN THE "BID PACKAGE".

### BROADWAY AND BLACK HORSE PIKE RUNNEMEDE, NEW JERSEY 08078



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### **Index of Drawings:**

C-1 COVER SHEET AND INDEX OF DRAWINGS

C-2 ADA GUIDELINE

SP-1 SITE PLAN

SP-2 SITE DETAILS

SESC-1 SESC NOTES&DETAILS

EX-1 EXISTING AREA PLAN AND ELEVATION

EX-2 EXISTING BUILDING PLAN

D-1 PARTIAL DEMOLITION PLANS

A-1.0 ROOF PLAN

A-1.1 FOUNDATION PLAN
A-1.2 FLOOR PLAN

A-1.3 REFLECTED CEILING PLAN

A-2.1 ELEVATIONS

A-3.1 BUILDING SECTION

A-3.2 SECTIONS

A-3.3 SECTION AND DETAILS

A-3.4 SECTION - COVERED STAGE

A-3.5 DETAILS - COVERED STAGE
A-4.1 BATHROOM PLAN AND ELEVATIONS

A-4.2 BATHROOM PLAN AND ELEVATIONS
A-4.3 SERVICE AREA ELEVATIONS AND DETAILS

A-5.1 WINDOW DETAILS

A-5.2 SCHEDULES AND DETAILS

A-5.3 EIFS DETAILS

S-1.1 STRUCTURAL NOTES

S-1.2 SPECIAL INSPECTIONS

S-2.1 FOUNDATION PLAN

S-2.2 ROOF FRAMING PLAN

S-3.1 FOUNDATION DETAILS S-4.1 ROOF FRAMING DETAILS

EC1 ELECTRICAL COVER SHEET

E-1.0 ELECTRICAL FLOOR PLAN

E-1.1 ELECTRICAL SCHEDULES
E-2.0 ELECTRICAL SINGLE LINE AND SCHEDULES

E-3.0 FIRE ALARM SYSTEM

E-3.1 FIRE ALARM DEVICE INFO

M-1.0 MECHANICAL COVER SHEET

M-2.0 MECHANICAL FLOOR PLAN

M-3.0 MECHANICAL SCHEDULES
M-4.0 MECHANICAL DETAIL SHEET

D.1 A DILIMBING COVED SHEET

P-1.0 PLUMBING COVER SHEET P-2.0 PLUMBING FLOOR PLANS

P-2.1 PLUMBING OVERALL FLOOR PLAN

P-3.0 PLUMBING RISER DIAGRAMS

P-4.0 PLUMBING DETAIL SHEET

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CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK

PROJECT:

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WING TITLE:			

COVER SHEET
AND INDEX
OF DRAWINGS

JOB NO:

RB2024-5

DATE:

8-29-25

SCALE:

AS NOTED

DESIGNED BY:

AAW

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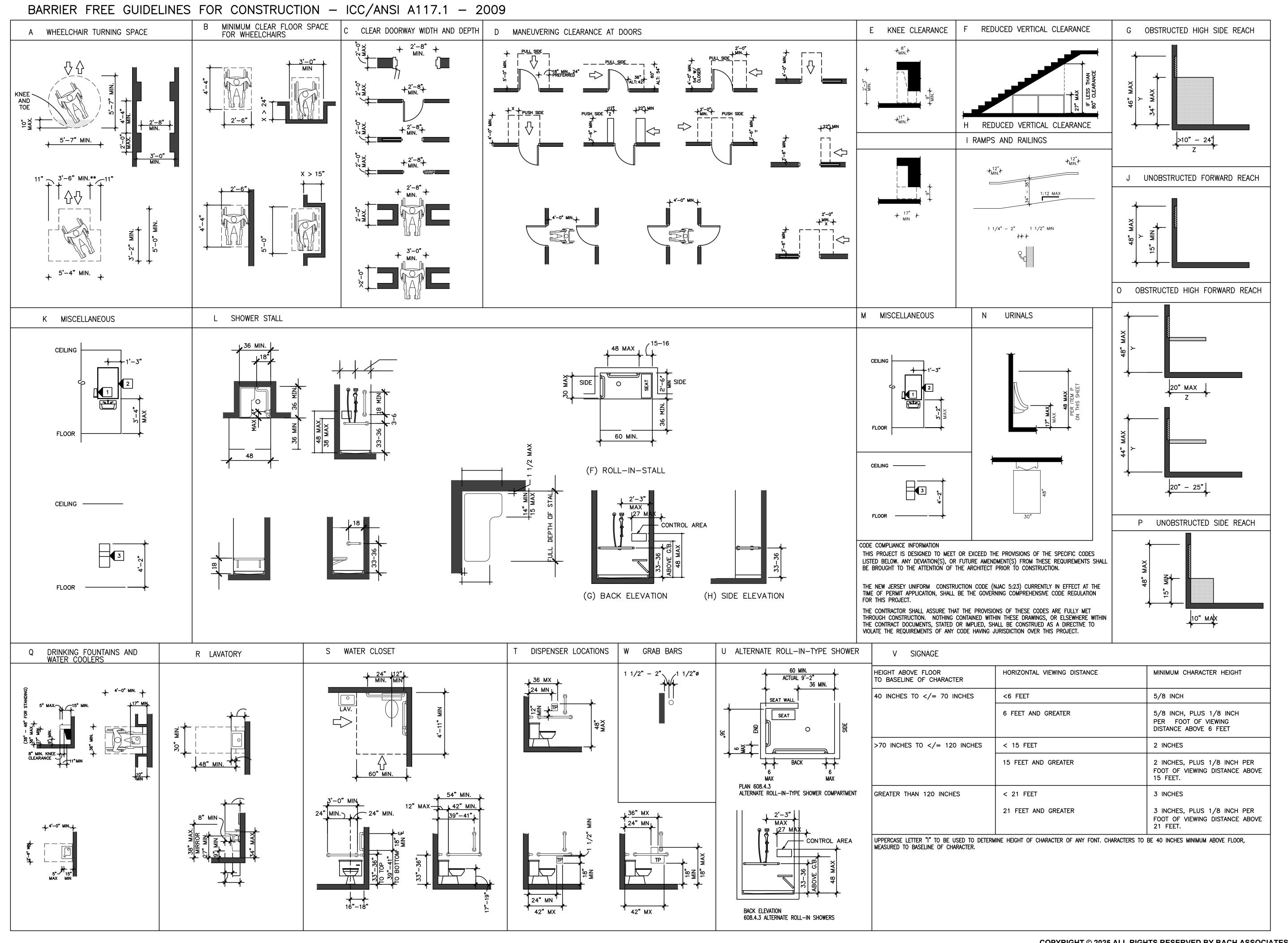
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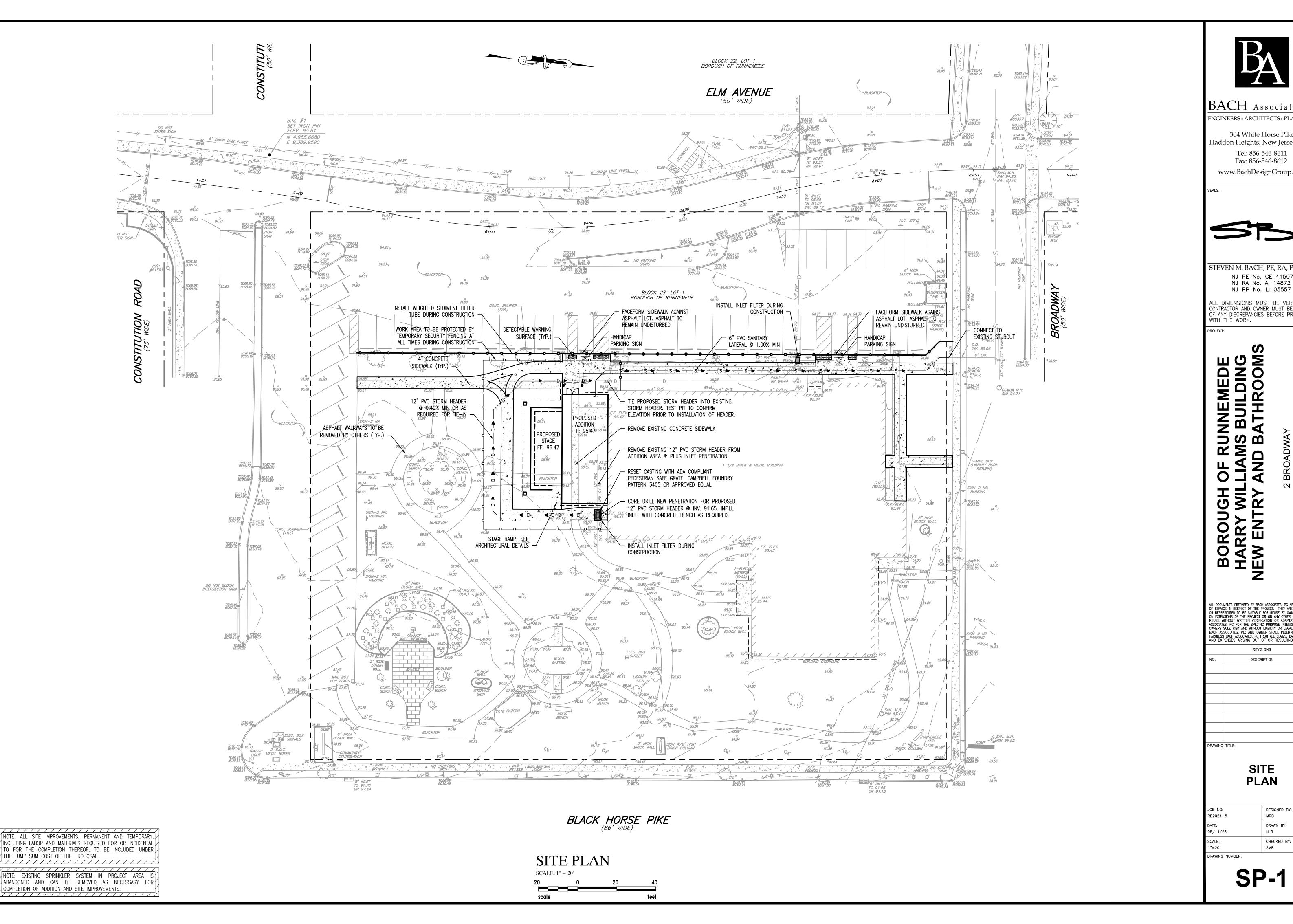
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### ADA GUIDELINES

JOB NO: RB2024-5	DESIGNED BY: AAW
DATE: 8-29-25	DRAWN BY: AAW
SCALE: AS NOTED	CHECKED BY: SMB

**C-2** 

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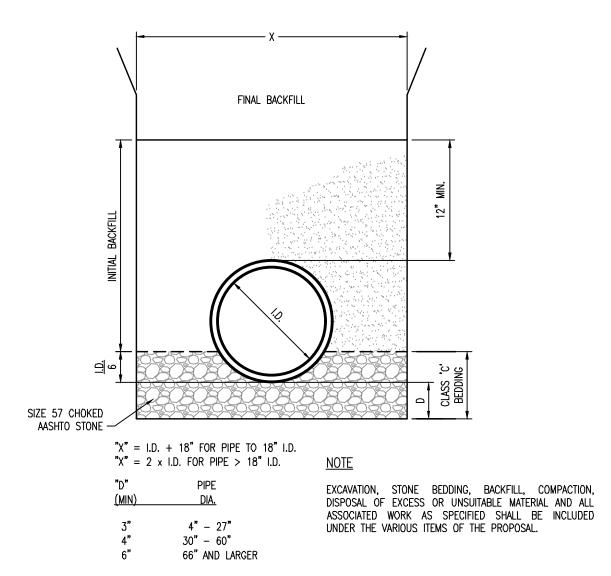
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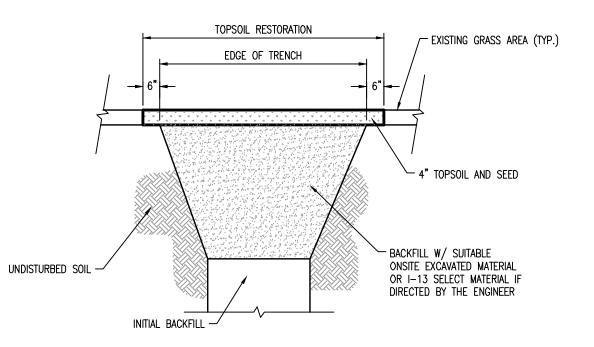
SITE **PLAN** 

JOB NO: RB2024-5	DESIGNED BY: MRB
DATE: 08/14/25	DRAWN BY: NJB
SCALE: 1"=20'	CHECKED BY: SMB
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SP-1



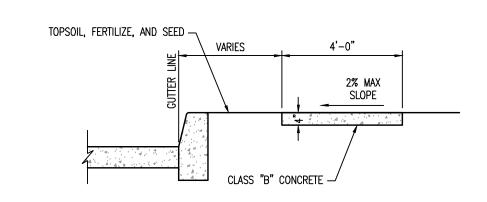
INITIAL TRENCH BACKFILLING
SCALE: NTS



NOTE

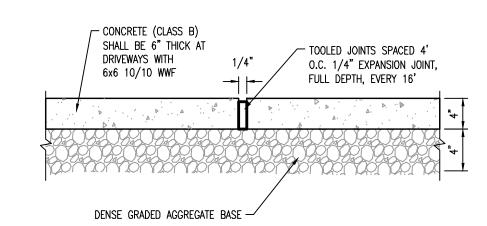
1. EXCAVATION, BACKFILL, COMPACTION, DISPOSAL OF EXCESS OR UNSUITABLE MATERIAL AND ALL ASSOCIATED WORK AS SPECIFIED SHALL BE INCLUDED IN THE PRICE BID FOR THE PIPING.

### FINAL TRENCH BACKFILLING W/ GRASS RESTORATION SCALE: NTS



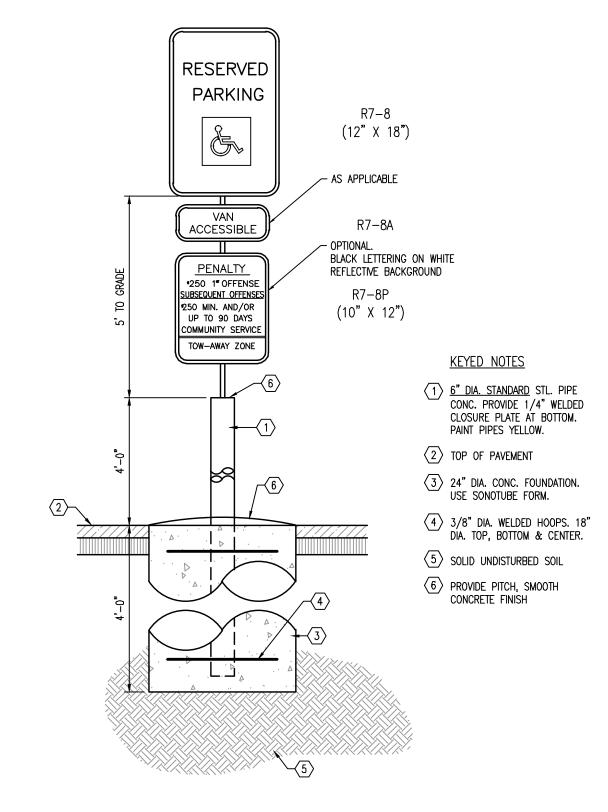
PER NJDOT SPECIFICATIONS

### CONCRETE SIDEWALK DETAIL SCALE: NTS



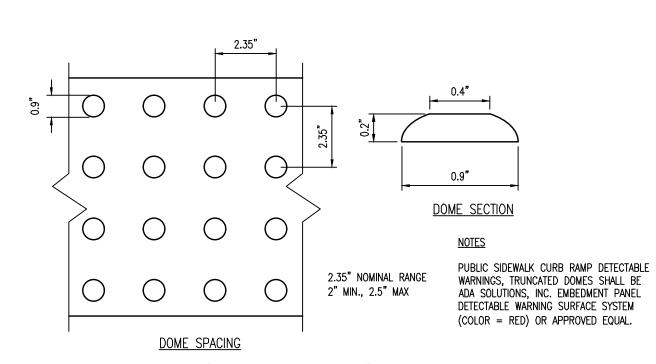
CONCRETE WALK DETAIL

SCALE: NTS



HANDICAPPED PARKING SIGN
W/PENALTY, VAN ACCESSIBLE
SCALE: NTS

SCALE: NTS
INSTALLED ON BOLLARD



TRUNCATED DOME DETAIL



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PROJEC

### GH OF RUNNEMEDE WILLIAMS BUILDING TRY AND BATHROOMS

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DATE: 08/14/25	DRAWN BY: NJB
SCALE: NTS	CHECKED BY: SMB
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SP-2

### **GENERAL NOTES**

THE CONTRACTOR SHALL SCHEDULE AND CONDUCT HIS OPERATIONS TO MINIMIZE EROSION OF SOILS AND TO PREVENT SILTING AND MUDDYING OF STREAMS, RIVERS, IRRIGATION SYSTEMS AND IMPOUNDMENTS (LAKES, RESERVOIRS, ETC.) CONSTRUCTION OF DRAINAGE FACILITIES AND PERFORMANCE OF THEIR CONTRACT WORK WHICH WILL CONTRIBUTE TO THE CONTROL OF EROSION AND SEDIMENTATION SHALL BE CARRIED OUT IN CONJUNCTION WITH EARTHWORK OPERATIONS OR AS SOON THEREAFTER AS PRACTICABLE. THE AREA OF BARE SOIL EXPOSED AT

PRIOR TO A SUSPENSION OF CONSTRUCTION OPERATIONS FOR A PERIOD OF 20 DAYS OR MORE, ANY AREA THAT HAS BEEN DISTURBED AND LEFT EXPOSED SHALL RECEIVE TEMPORARY STABILIZATION

ANY ONE TIME BY CONSTRUCTION OPERATIONS SHALL BE KEPT TO A MINIMUM.

POLLUTANTS SUCH AS FUELS, LUBRICANTS, BITUMENS, RAW SEWAGE AND OTHER HARMFUL MATERIALS SHALL NOT BE DISCHARGED INTO OR NEAR RIVERS, STREAMS AND IMPOUNDMENTS OR INTO NATURAL OR MANMADE CHANNELS LEADING THERETO. WASH WATER OR WASTE FROM CONCRETE MIXING OPERATIONS SHALL NOT BE ALLOWED TO ENTER LIVE STREAMS.

ALL APPLICABLE REGULATIONS OF FISH AND WILDLIFE AGENCIES AND STATUTES RELATING TO THE PREVENTION AND ABATEMENT OF POLLUTION SHALL BE COMPLIED WITHIN THE PERFORMANCE OF THE CONTRACT.

### MAINTENANCE NOTES

SEDIMENTATION COLLECTED IN THE DETENTION BASIN SHALL BE REMOVED AFTER IT HAS BUILT UP TO THE ELEVATION OF THE BOTTOM OF THE DEWATERING HOLE IN THE WATERTIGHT RISER. ALL SILT COLLECTED SHALL BE PLACED BACK UP ON THE SITE.

SEEDED AREAS THAT HAVE WASHED AWAY SHALL BE FILLED AND GRADED, AS NECESSARY, AND THEN RESEEDED. ADDITIONAL HAY MULCHING SHALL BE APPLIED TO RETAIN THE SEED UNTIL IT HAS A CHANCE TO ROOT PROPERLY.

AREAS THAT CONTAIN SOD SHALL BE CHECKED VERY CAREFULLY TO ENSURE THAT JOINTS BETWEEN THE SOD STRIPS ARE TIGHT AND SECURE. WHERE JOINT SEPARATION IS IN EVIDENCE, A CAREFUL INSPECTION OF EACH JOINT SHALL BE MADE TO DETERMINE WHETHER UNDERMINING OF THE STRIPS IS OCCURRING. IF IT IS, THE STRIPS SHALL BE ROLLED UP, THE SUBSURFACE SHALL BE FILLED AND GRADED, AS REQUIRED, AND THE SOD STRIPS SHALL BE RELAID WITH THE PROPER JOINTS AND PEGGING.

A GOOD STAND OF VEGETATION SHALL BE DEFINED AS THE MANUFACTURER'S RECOMMENDED

SHOULD UNFORESEEN EROSIVE CONDITIONS DEVELOP DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE ACTION TO REMEDY SUCH CONDITIONS AND TO PREVENT DAMAGE TO ADJACENT PROPERTIES AS A RESULT OF INCREASED RUNOFF AND/OR SEDIMENT DISPLACEMENT. SPECIAL ATTENTION SHOULD BE GIVEN TO FROZEN SLOPES. STOCKPILES OF WOOD CHIPS, HAY BALES, CRUSHED STONE AND OTHER MULCHES SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.

DURING CONSTRUCTION THE CONTRACTOR WILL BE RESPONSIBLE FOR SOIL EROSION CONTROL MAINTENANCE. AFTER CONSTRUCTION THE OWNER WILL BE RESPONSIBLE FOR MAINTAINING THE

### TEMPORARY EROSION AND SEDIMENTATION CONTROL

TEMPORARY INLET PROTECTION SHALL BE APPLIED TO EACH INLET. THEY SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF VEGETATION HAS ESTABLISHED.

SEED SHALL BE APPLIED ACCORDING TO THE ENCLOSED CHART. THE CONTRACTOR SHALL ADHERE TO THE RECOMMENDED SEEDING DATES WHEN SELECTING TEMPORARY SEED TYPES. FERTILIZED, LIME AND MULCH ACCORDANCE WITH RATES AND MATERIALS INDICATED IN PERMANENT IN STABILIZATION SECTION.

### TEMPORARY SEEDINGS AND SEEDING DATES

		_	
	SEEDIN	G RATE	SEEDING DATES
CROP	PER ACRE	PER 1,000 SF	SOUTH JERSEY
OATS (SPRING)	1 1/2 BU.	2 LBS.	BEFORE APRIL 1
RYE	2 BU.	2.4 LBS.	SEPT. 1 - NOV. 1
BARLEY 15 (WINTER)	2 BU.	2.2 LBS.	SEPT. 20 - OCTOBE
RYEGRASSES (PERENNIAL)	40 LBS.	0.9 LBS.	BEFORE MAY 15 AUG. 25 - NOV. 1
KOREAN LESPEDEZA*	25 LBS.	0.6 LBS.	FEB. 1 - JULY 5
MILLET (FOXTAIL*)	30 LBS.	0.7 LBS.	MAY 1 - JULY 1
SUNDANGRASS* WEEPING LOVE-GRASS	60 LBS. 3 LBS.	1.4 LBS. 0.1 LBS.	MAY 1 - JULY 5 MAY 1 - AUG 15

\* MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR CAN BE IRRIGATED.

DUST CONTROL SHALL BE ACCOMPLISHED BY PERIODIC SPRINKLING OF DISTURBED AREAS WITH WATER AS REQUIRED.

MULCHING IS REQUIRED ON ALL SEEDED AREAS TO ENSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATIVE COVER.

### PERMANENT STABILIZATION

ALL EXPOSED EARTH SURFACES SHALL BE PERMANENTLY STABILIZED AFTER COMPLETION OF CONSTRUCTION OF ALL SITE IMPROVEMENTS. PERMANENT STABILIZATION SHALL BE ACCOMPLISHED BY THE FOLLOWING METHODS AND MATERIALS.

MATERIALS	<u>TYPE</u>	APPLICATION RATES
LIME	PULVERIZED DOLOMITIC 50% Ca 0 Mg 0	2 TONS/ACRE
FERTILIZER	N P K 10 20 10	600 LBS./ACRE
SEED	NJDOT TYPE "A" SEED MIX (PERCENT BY WEIGHT)	175 LBS./ACRE
	KENTUCKY BLUEGRASS RED FESCUE (CREEPING/CHEWING KENTUCKY 31 PERENNIAL RYEGRASS RED TOP WHITE CLOVER	20% 35% 20% 10% 10% 5%
MULCH	STRAW MULCH OR HAY SMALL UNROTTED GRAIN	1.5 - 2 TONS/ACRE
MULCH BINDER	SYNTHETIC OR ORGANIC BINDERS SUCH AS CURASOL, DCA 70, BY MANUFACTURER TO PETRO-SET AND TERRA TACK	AT RATES RECOMMENDED BY MANUFACTURER TO ANCHOR MULCH MATERIAL

### <u>METHODS</u>

1. WORK LIME AND FERTILIZER INTO SOIL WITH A SPRING TOOTH OR DISC HARROW.

2. APPLY SEED AT THE GIVEN RATE AND FIRM WITH A ROLLER OR LIGHT DRAG.

3. APPLY STRAW MULCH IN AN UNIFORM FASHION UNTIL 80% OF THE GROUND IS COVERED; A SLIGHTLY HEAVIER APPLICATION IS NECESSARY ON STEEP SLOPES.

4. ANCHOR STRAW MULCH IN PLACE BY SPRAYING MULCH BINDER AT GIVEN RATES.

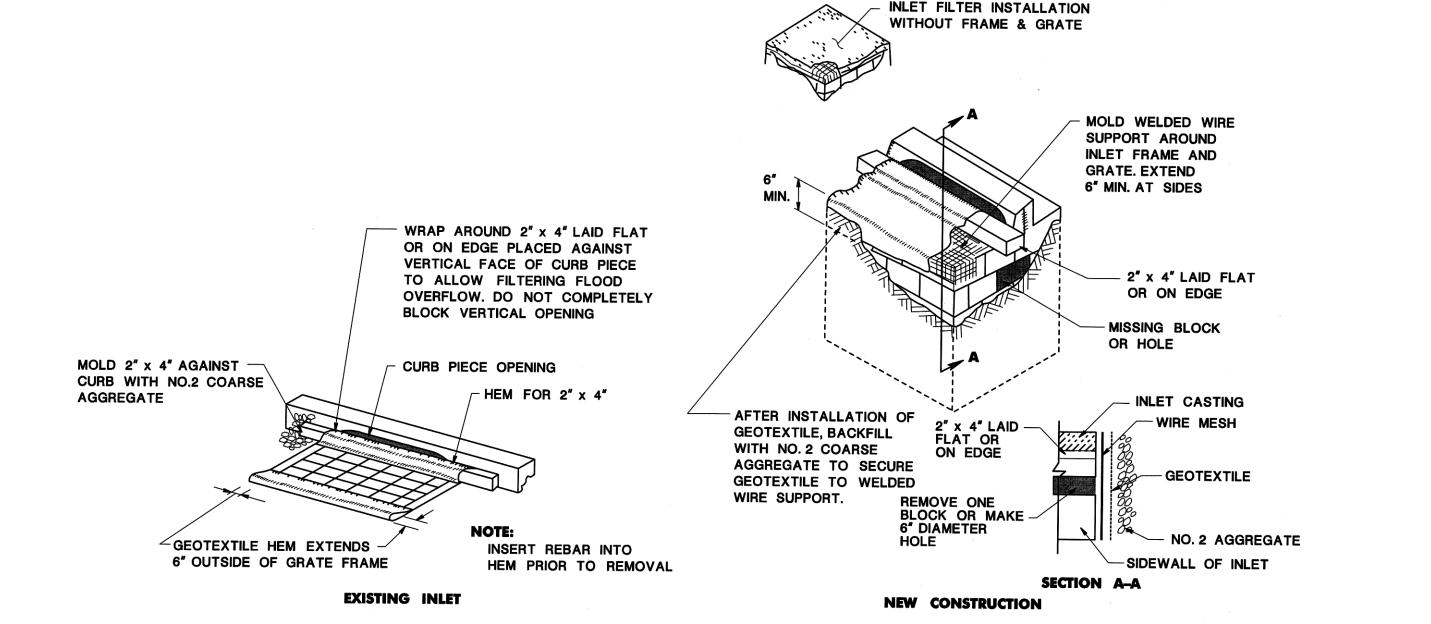
AS AN ALTERNATIVE TO THE PRECEDING, AREAS TO RECEIVE PERMANENT VEGETATIVE COVER CAN BE HYDROSEEDED USING THE PREVIOUS FERTILIZATION, SEEDING AND LIMING RATES. WITH ADDITION OF PAPER FIBER MULCH (1500 LB/ACRE) AND TERITAC MULCH BINDER (1 CASE/ACRE). THE USE OF HYDROSEED IS LIMITED TO FLATTER SLOPES AND ONLY DURING THE OPTIMUM SEEDING PERIODS IN THE SPRING AND FALL.

5" OF CLEAN TOP SOIL SHALL BE PROVIDED ON ALL AREAS OF DISTURBANCE WHERE TOP SOIL DOES NOT EXIST.

### **CAMDEN COUNTY SOIL CONSERVATION NOTES**

- 1) ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- 2) SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
- 3) APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
- 4) THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
- 5) ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN SIXTY (60) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING FERTILIZATION IN ACCORDANCE WITH THE NEW JERSEY STANDARDS AND THEIR RATES SHOULD BE INCLUDED IN THE NARRATIVE. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID
- 6) IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE CONFIRMATION OF LIME, FERTILIZER AND SEED APPLICATION AND RATES OF APPLICATION AT THE REQUEST OF THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT.
- 7) ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NEW JERSEY STANDARDS IMMEDIATELY FOLLOWING ROUGH GRADING.
- 8) THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- 9) ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT
- 10) A CRUSHED STONE, TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS.
- 11) ALL DRIVEWAYS MUST BE STABILIZED WITH 2 ½" CRUSHED STONE OR SUB-BASE PRIOR TO INDIVIDUAL LOT
- 12) PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 13) ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
- 14) ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME
- 15) ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC. (SEE DETAIL) THE BASIN MUST BE DEWATERED TO NORMAL POOL WITHIN 10 DAYS OF THE DESIGN STORM.
- 16) NJSA 4:24-36, ET. SEQ. REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE ALL PROVISIONS OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE AS A PREREQUISITE TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
- 17) MULCHING IS REQUIRED ON ALL SEEDED AREAS TO INSURE AGAINST EROSION BEFORE GRASS IS ESTABLISHED TO PROMOTE EARLIER VEGETATION COVER.
- 18) OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE FROSION CONTROL INSPECTOR
- 19) A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE
- 20) THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS PRIOR TO ANY LAND DISTURBANCE.
- 21) ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
- 22) IMMEDIATELY AFTER THE COMPLETION OF STRIPPING AND STOCKPILING OF TOPSOIL, THE STOCKPILE MUST BE STABILIZED ACCORDING TO THE STANDARD FOR TEMPORARY VEGETATIVE COVER. STABILIZED TOPSOIL PILE WITH STRAW MULCH FOR PROTECTION IF THE SEASON DOES NOT PERMIT THE APPLICATION AND ESTABLISHMENT OF TEMPORARY SEEDING. ALL SOIL STOCKPILES ARE NOT TO BE LOCATED WITHIN FIFTY (50) FEET OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY AND THE BASE MUST BE PROTECTED WITH A SEDIMENT BARRIER.
- 23) ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISE SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT. THE REVISED PLAN MUST BE IN
- 24) METHODS FOR THE MANAGEMENT OF HIGH ACID PRODUCING SOILS SHALL BE IN ACCORDANCE WITH THE STANDARDS. HIGH ACID PRODUCING SOILS ARE THOSE FOUND TO CONTAIN IRON SULFIDES OR HAVE A pH OF 4 OR LESS.
- 25) TEMPORARY AND PERMANENT SEEDING MEASURES MUST BE APPLIED ACCORDING TO THE <u>NEW JERSEY STANDARDS</u>, AND MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE <u>NEW JERSEY STANDARDS</u> (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID MULCH BINDER).
- 26) MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- 27) DUST IS TO BE CONTROLLED BY AN APPROVED METHOD ACCORDING TO THE NEW JERSEY STANDARDS AND MAY INCLUDE WATERING WITH A SOLUTION OF CALCIUM CHLORIDE AND WATER.
- 28) ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE
- 29) USED STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
- 30) ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF NURSERYMEN AND IN ACCORDANCE WITH THE <u>NEW JERSEY STANDARDS</u>.
- 31) NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPE PLAN.
- 32) THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED

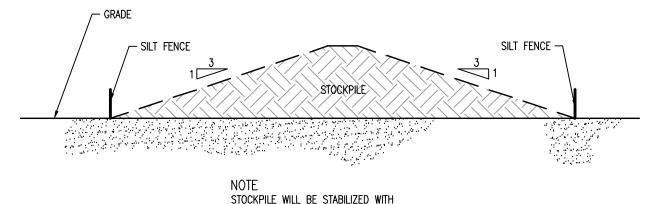
CONSTRUCTION SEQUENCE	<b>DURATION</b>
A. PLACEMENT OF SOIL EROSION & SEDIMENT CONTROL MEASURES	WK 1
B. CONSTRUCTION OF UNDERGROUND UTILITIES & SITE IMPROVEMENTS	WK 2 - 22
C. PERFORM TEMPORARY SEEDING AS NECESSARY	WK 23
E. FINAL GRADE AND TOPSOIL UNPAVED AREAS	WK 24
F. PERFORM PERMANENT SEEDING & LANDSCAPING	WK 25



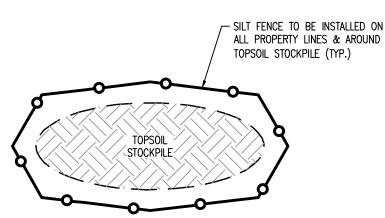
### **INLET FILTERS, TYPE 1**

SCALE: NTS





### STOCKPILE WILL BE STABILIZED WITH GRASS SEED COVERED WITH STRAW MULCH.



### TOPSOIL STOCKPILE DETAIL

SCALE: NTS

SLIGHTLY ANGLE STAKES WITH TOP FACING TOWARDS

> 12" MIN. OVERLAP

T-POST

SCALE: NTS

EXTEND TUBES AT SIDES OF

USE ONE OR MORE TUBES AS NEEDED

TO SPAN WIDTH OF DITCH. NOTE: TO

MAXIMIZE FLOW, ARRANGE TUBES IN A

CURVED, ANGLED PATTERN TO MAXIMIZE

EXPOSED SURFACE AREA TO FLOW.

APPLICABLE TO LARGE WIDTH

IS NOT SUFFICIENT TO SPAN

DITCHES WHERE ONE TUBE

DITCH TO PREVENT

DIRECTION OF FLOW.

\* APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES SUCH AS STORMWATER INLET PROTECTION AND TOPSOIL STOCKPILES SHALL BE PROVIDED FOR UTILITY REPLACEMENT VIA EXCAVATION IN ACCORDANCE WITH N.J.A.C. 7:22-10.11(C) AND N.J.A.C. 7:22-10.11(I).

LIMITS OF DITCH

WEIGHTED SEDIMENT

FILTER TUBE DETAIL

DITCH AND CENTER

OF 10' TUBE.

**OVERLAP** 

MINIMIZE OVERLAP LENGTH IN

TO MAXIMIZE FLOW-THROUGH

OVERLAPS, TIGHTLY COMPRESSED

ENDS BUTTED TOGETHER WITH

FRONT AND REAR STAKES AT

THE JOINT ARE ACCEPTABLE.

CHECK DAM APPLICATIONS

AS AN ALTERNATIVE TO

## PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PAVEMENT ACCORDING TO TABLE 29-1 EXISTING GROUND 6" MIN. ASTM C-33, No.2 OR No.3 STONE; (1.5"-2.5"),(1"-2"). PROFILE N.T.S.

CD-158-2.4

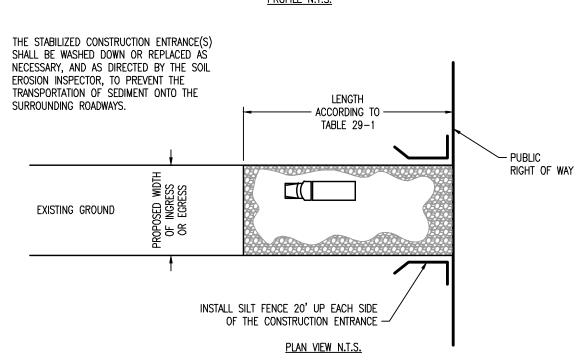
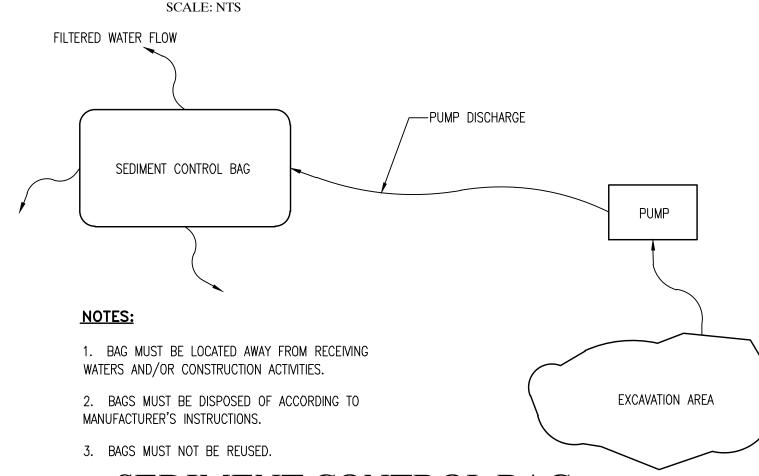


	TABLE 29-1	
PERCENT SLOPE	<u>LENGTH OF ST</u>	ONE REQUIRED
OF ROADWAY	COURSE GRAIN SOIL	FINE GRAIN SOIL
0 TO 2%	50 FT.	100 FT.
2 TO 5%	100 FT	200 FT.
> 5%	ENTIRE SURFACE STABILIZE	WITH FABC BASE COURSE

### STABILIZED CONSTRUCTION ENTRANCE DETAIL



SEDIMENT CONTROL BAG
FOR DEWATERING DETAIL
SCALE: NTS



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NJ RA No. AI 14872
NJ PP No. LI 05557

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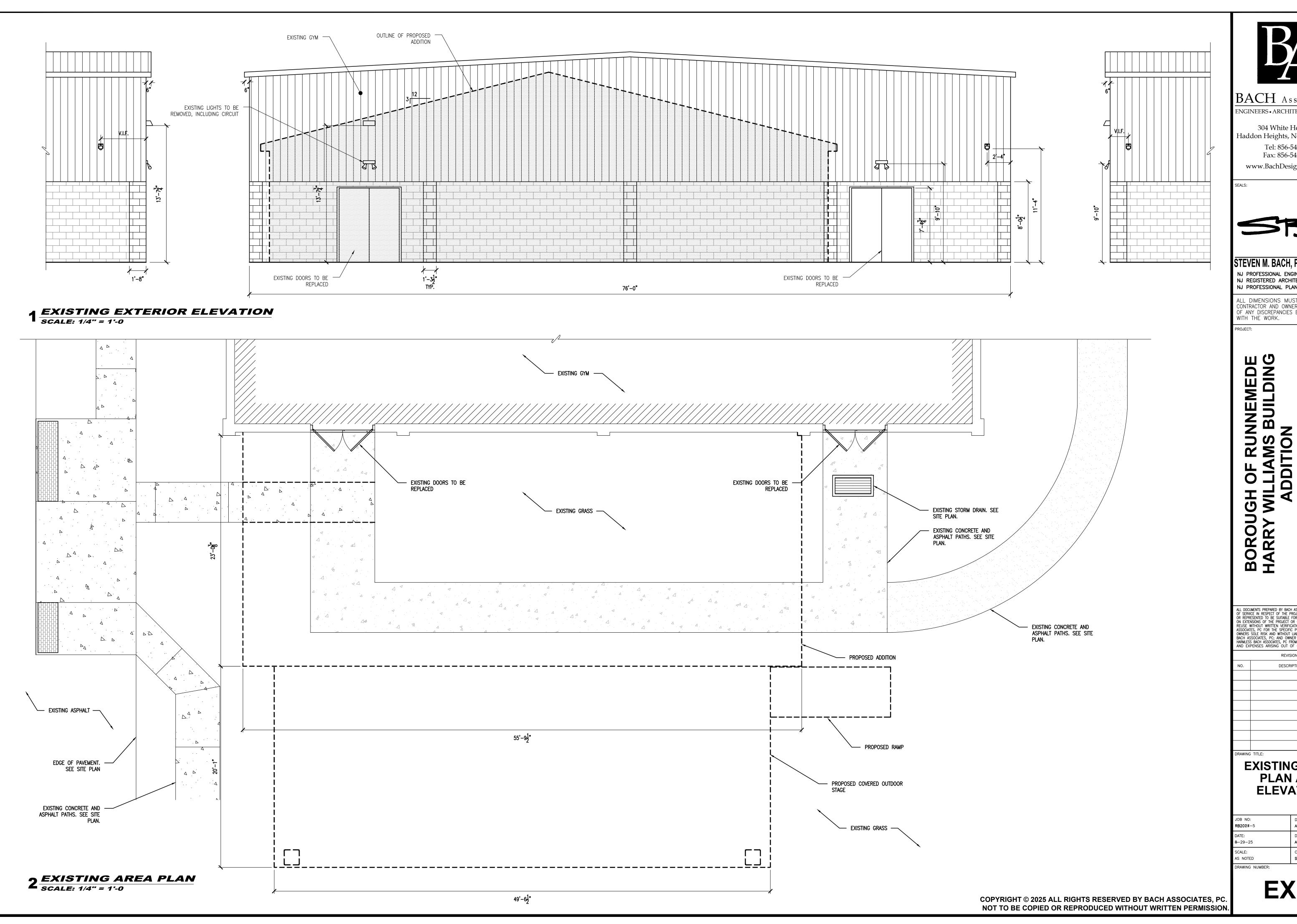
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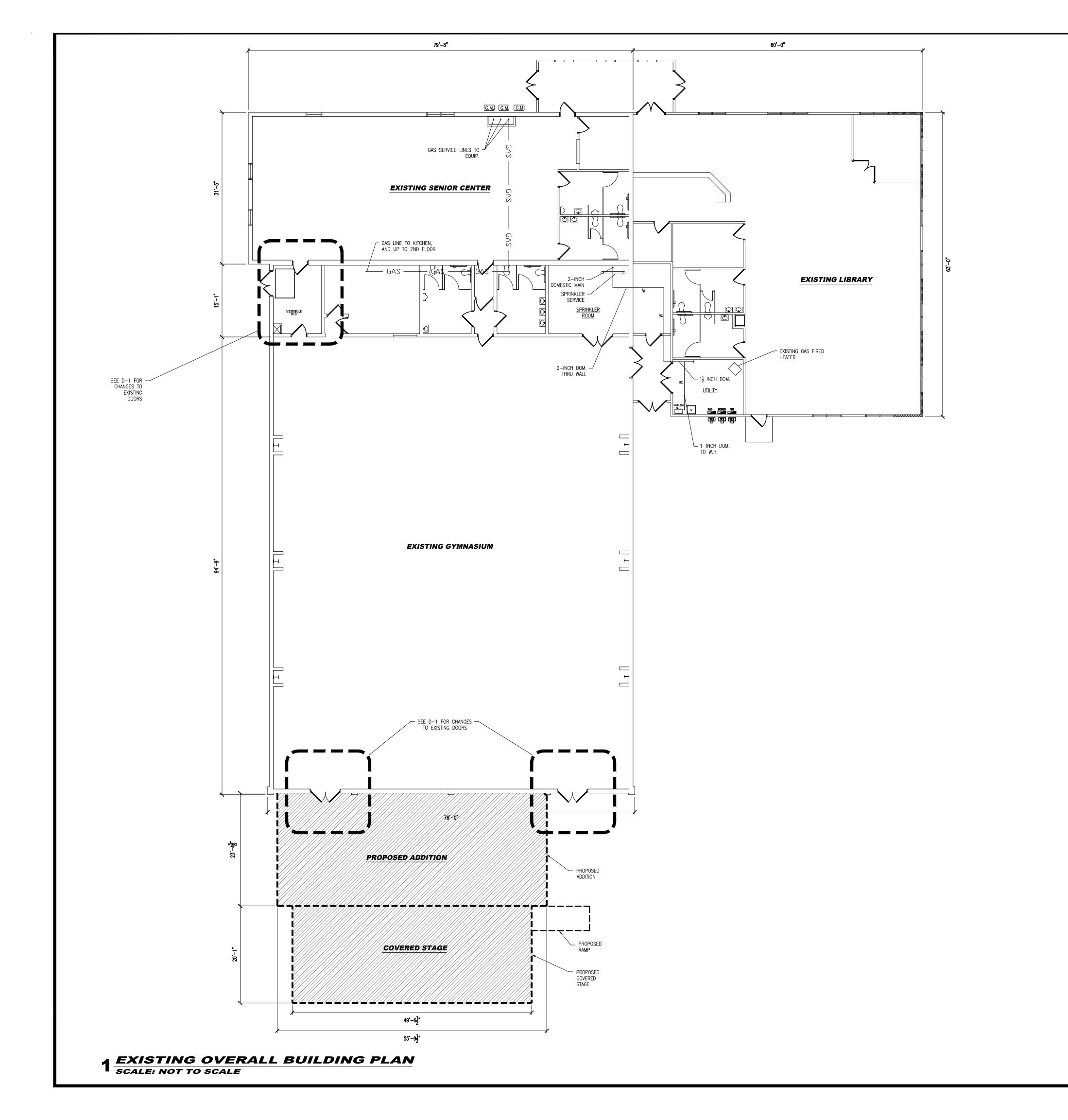
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EX-1





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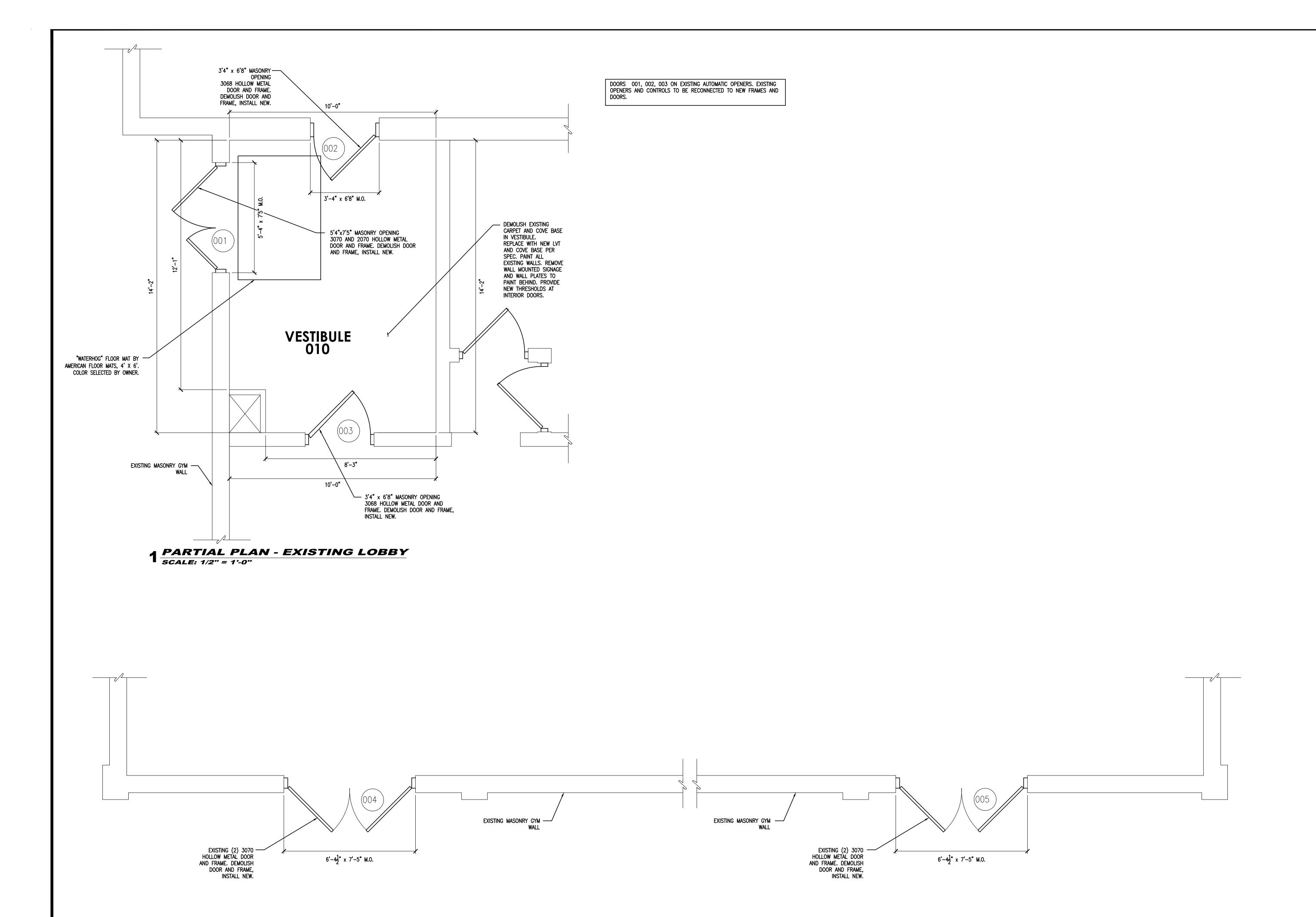
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EX-2



2 PARTIAL PLAN - EXISTING LOBBY SCALE: 1/2" = 1'-0"

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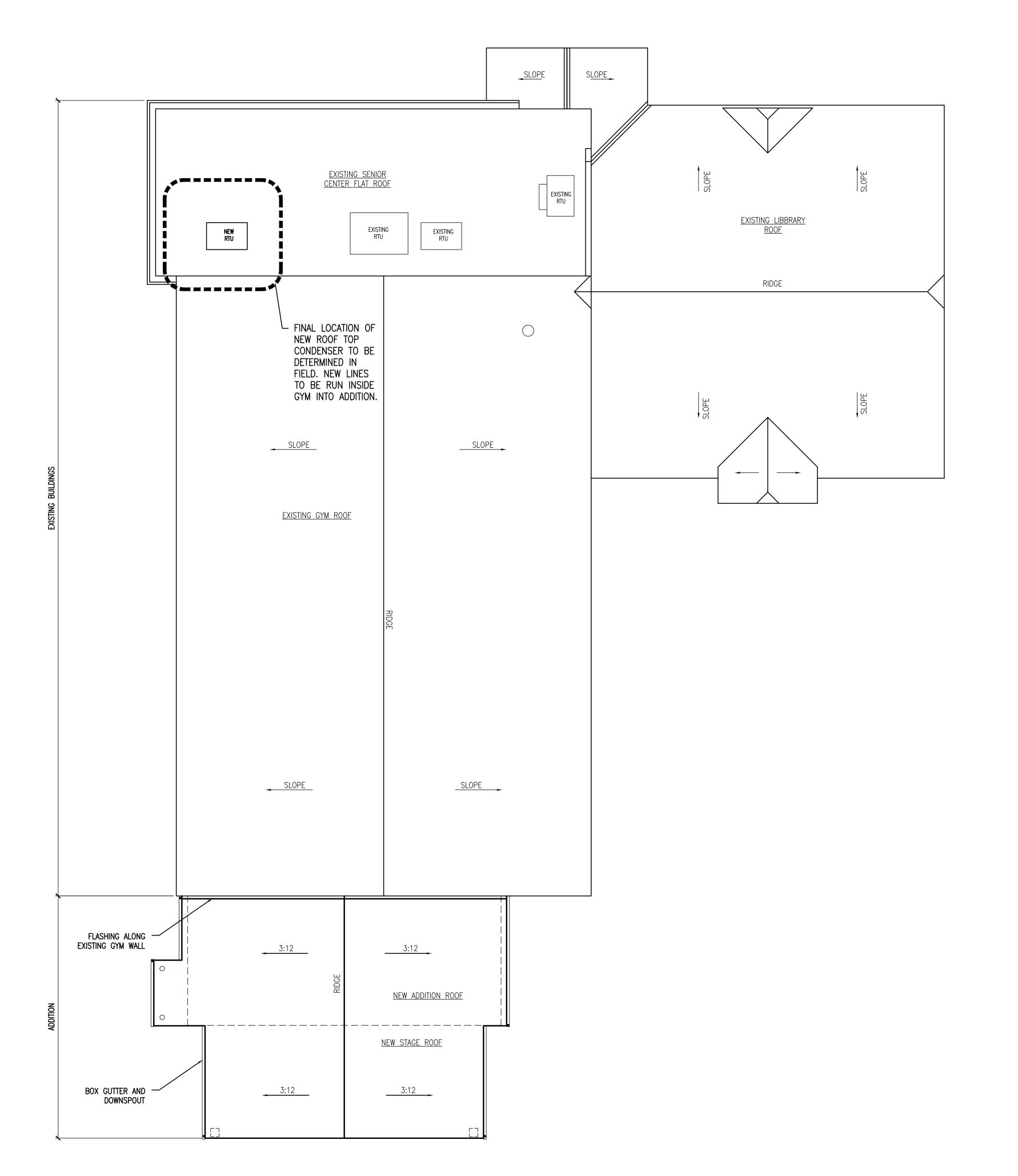
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**PARTIAL DEMOLITION PLANS** 

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**D-1** 

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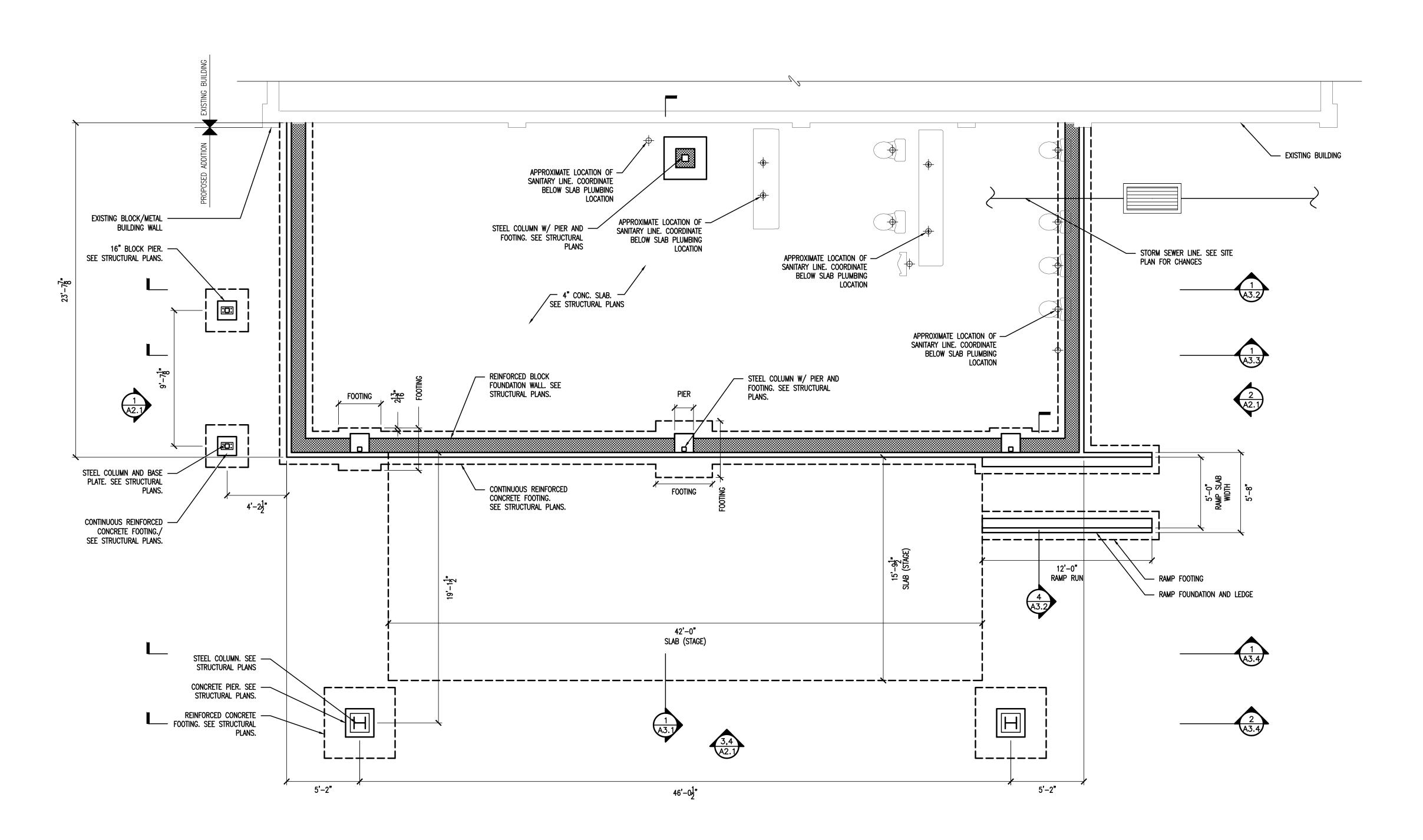
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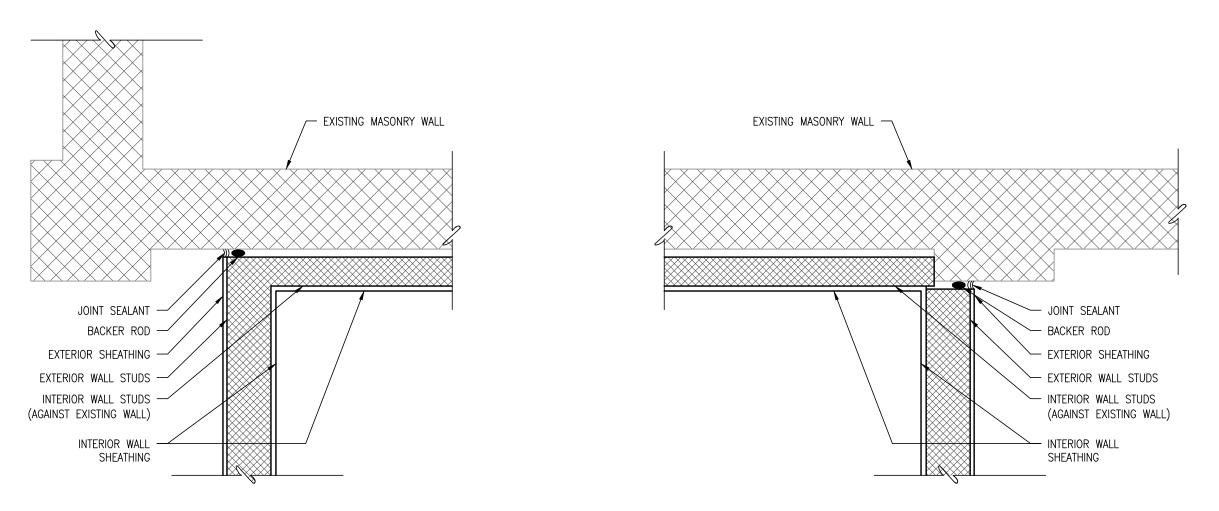
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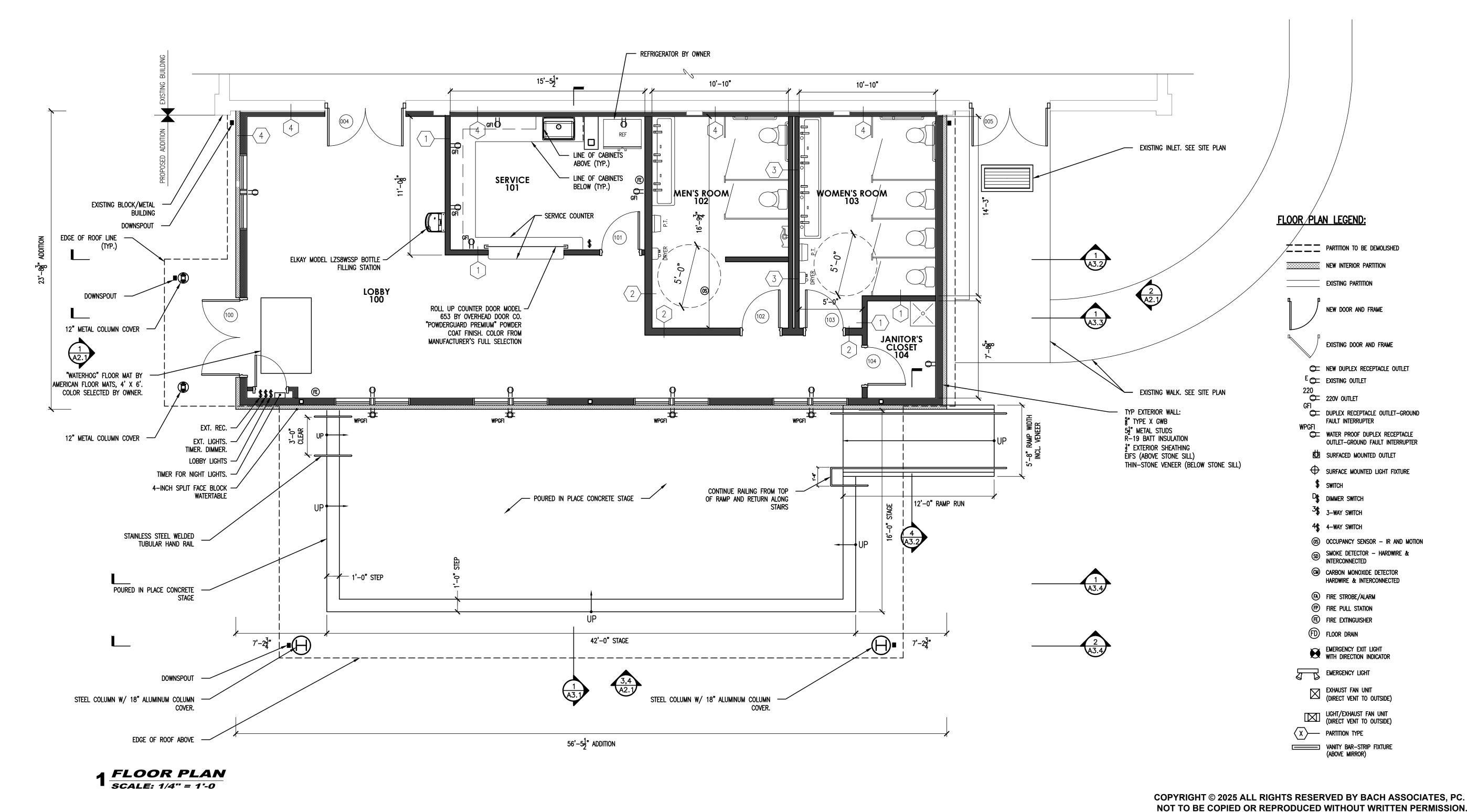
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FOUNDATION **PLAN** 

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### 9 DETAIL - WEATHER SEAL @ EXISTING BUILDING SCALE: 1" = 1'-0





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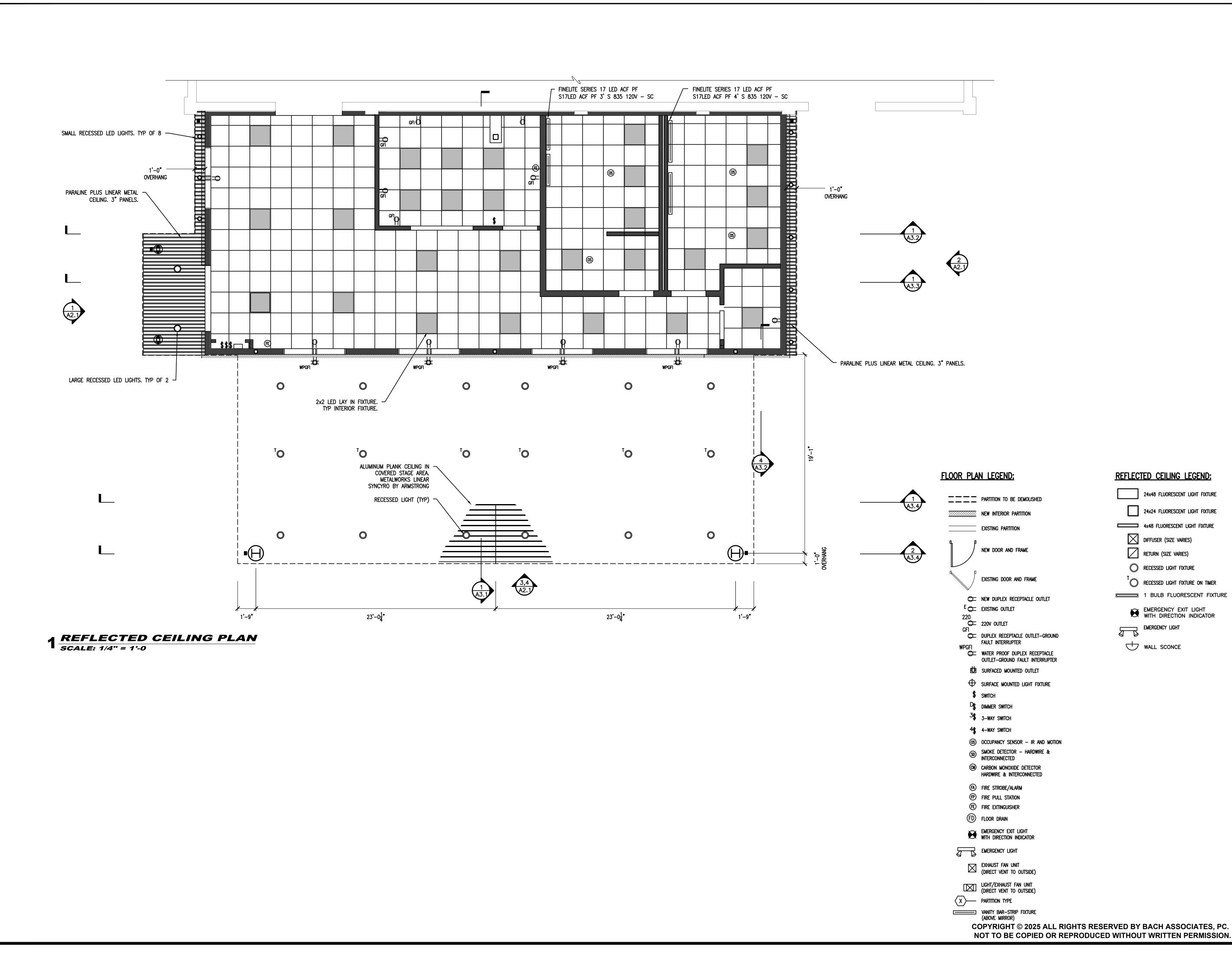
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FLOOR PLAN

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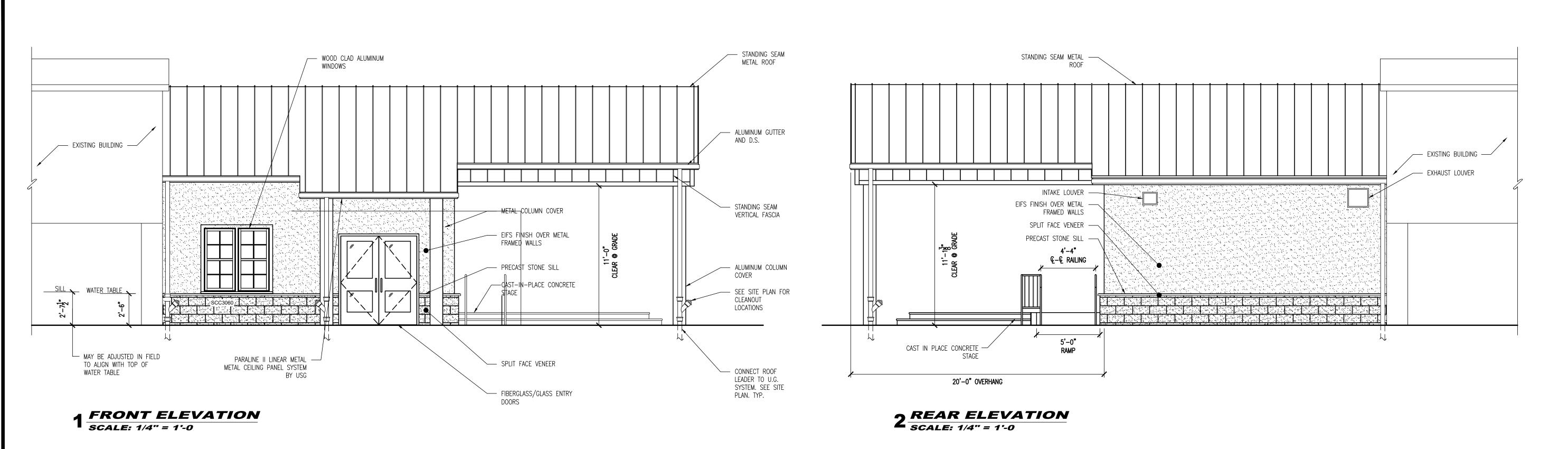
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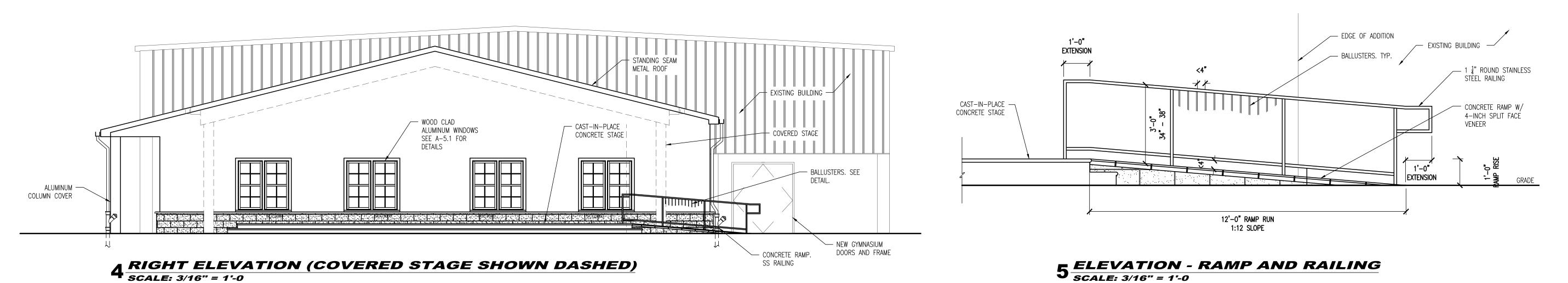
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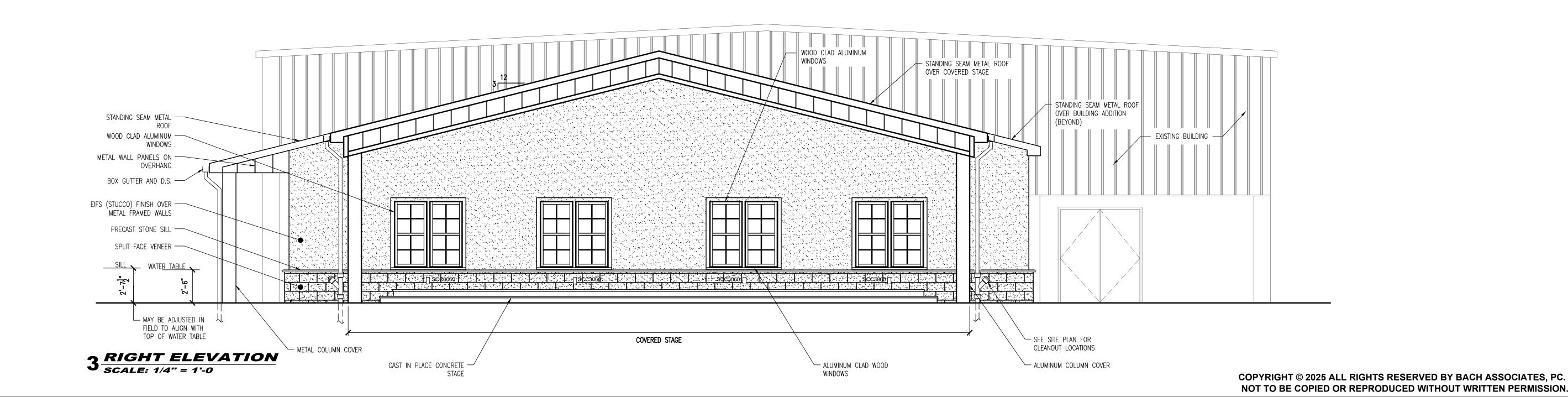
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PROJECT:

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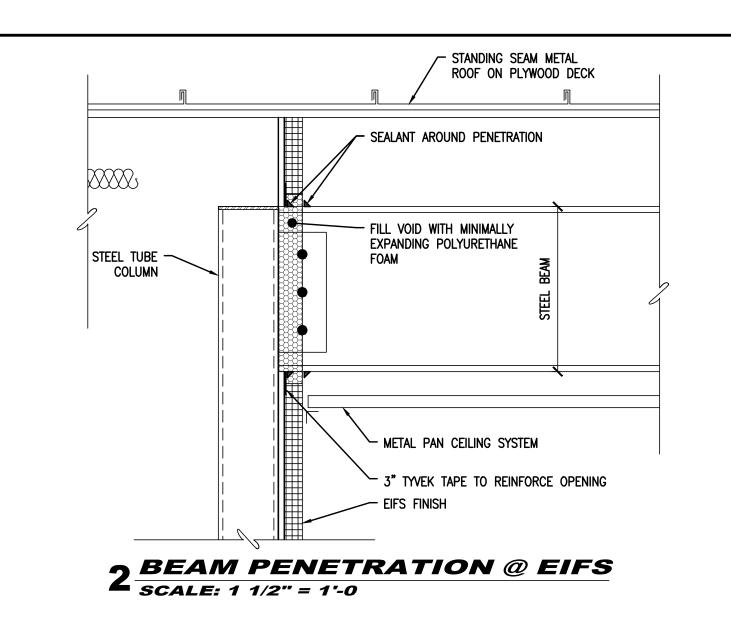
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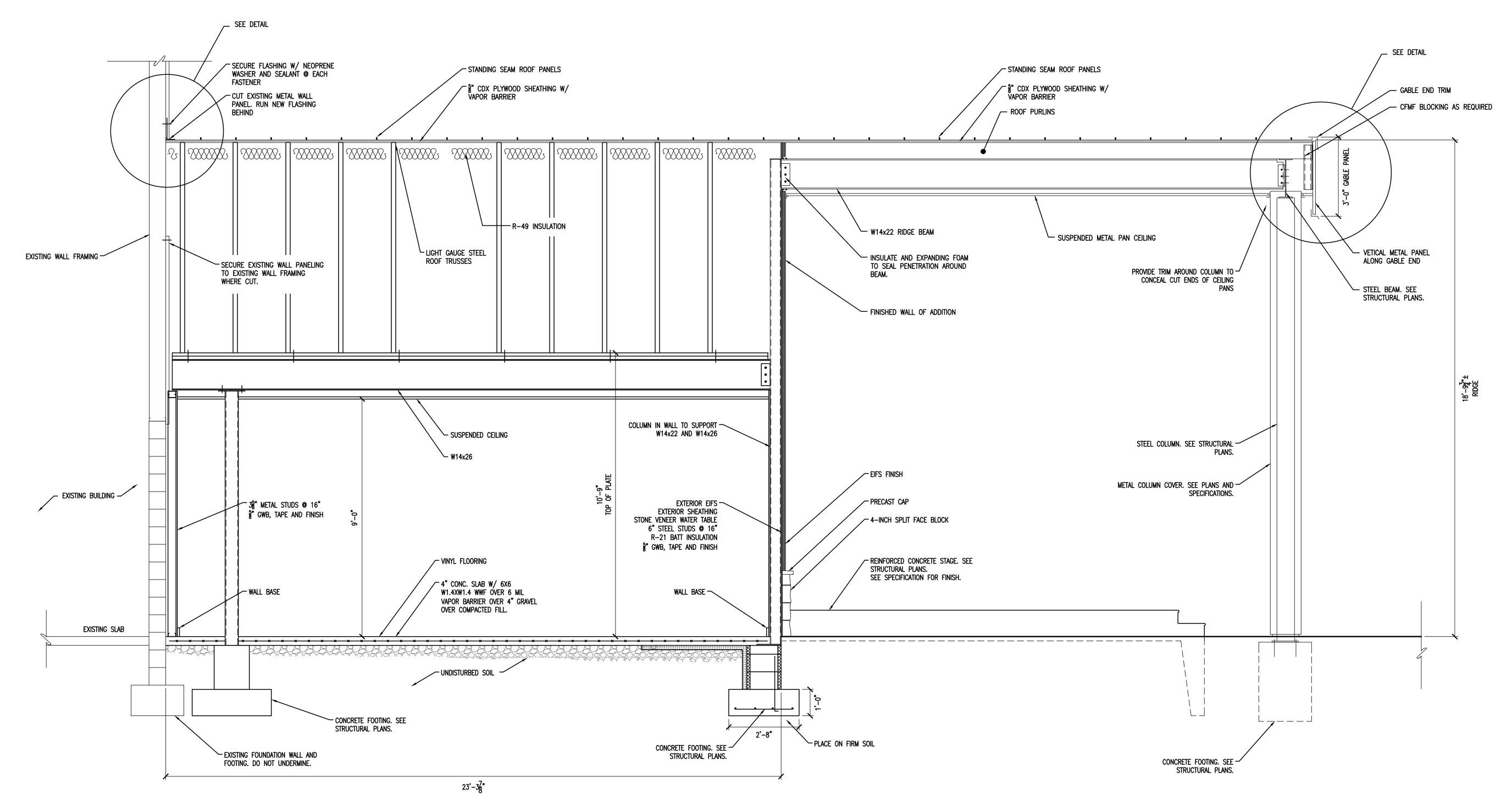
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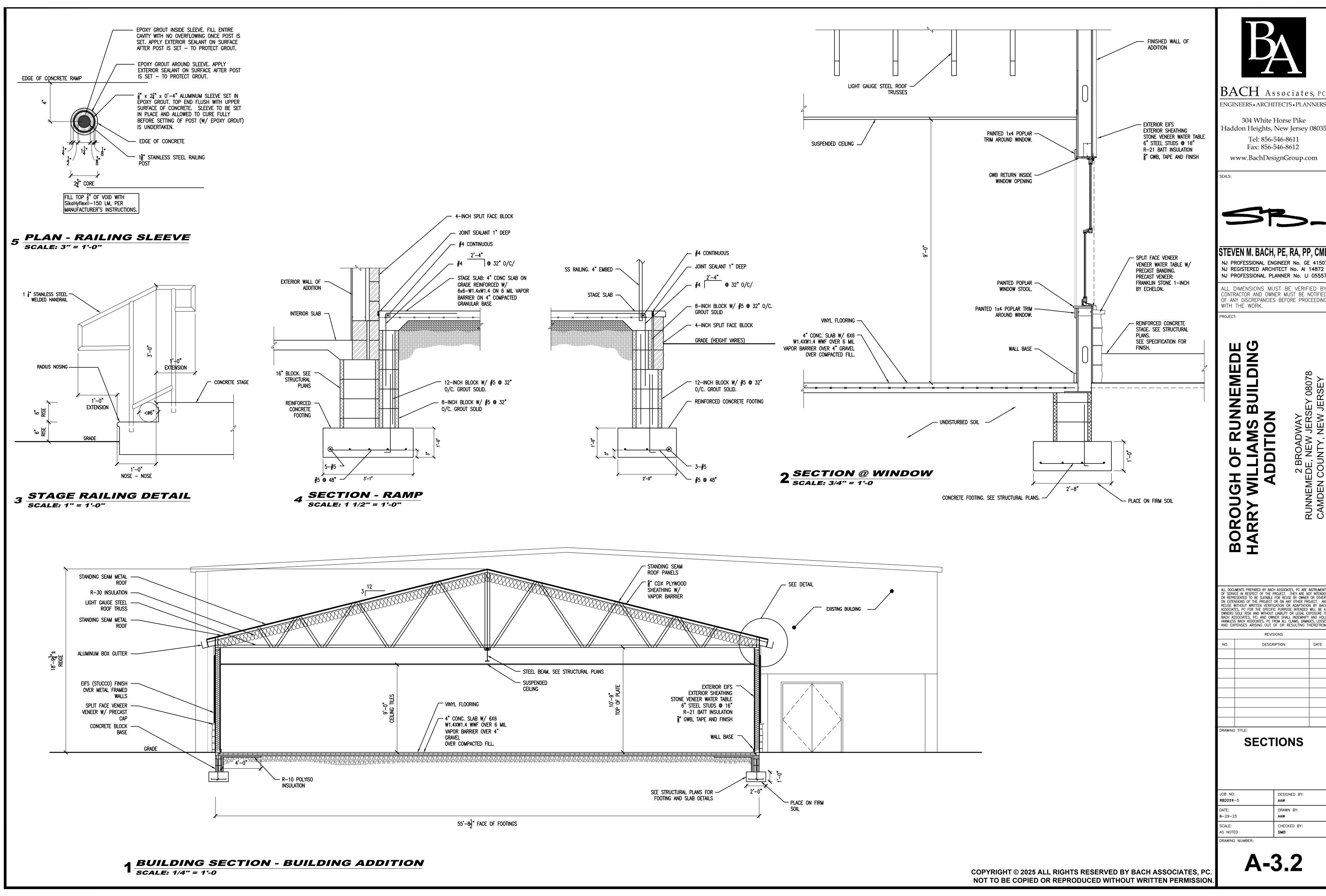
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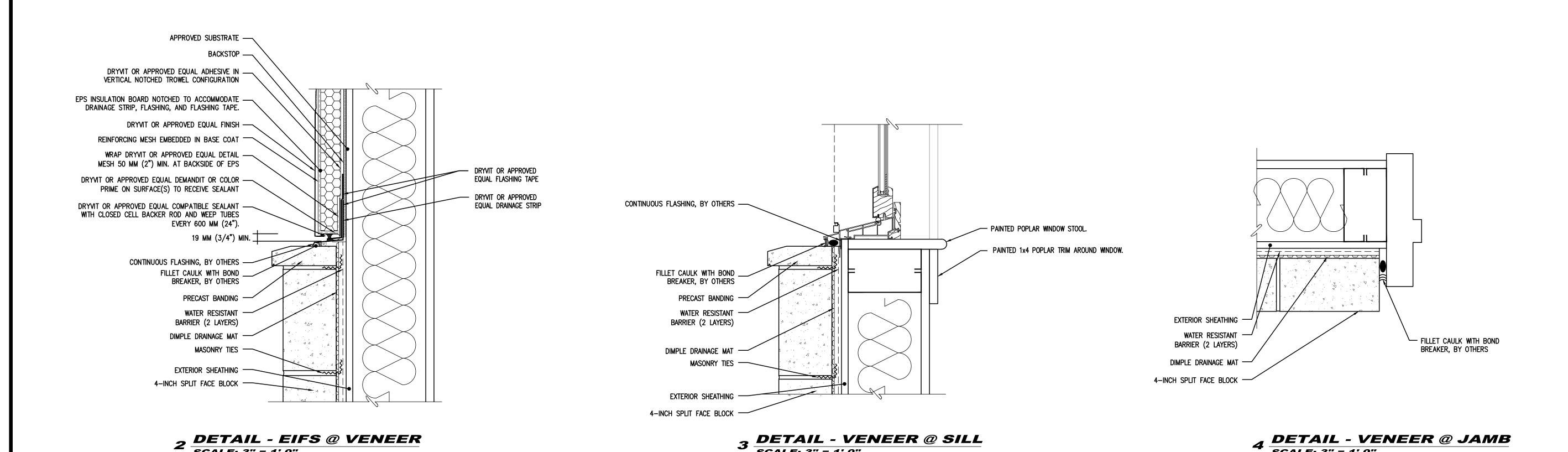
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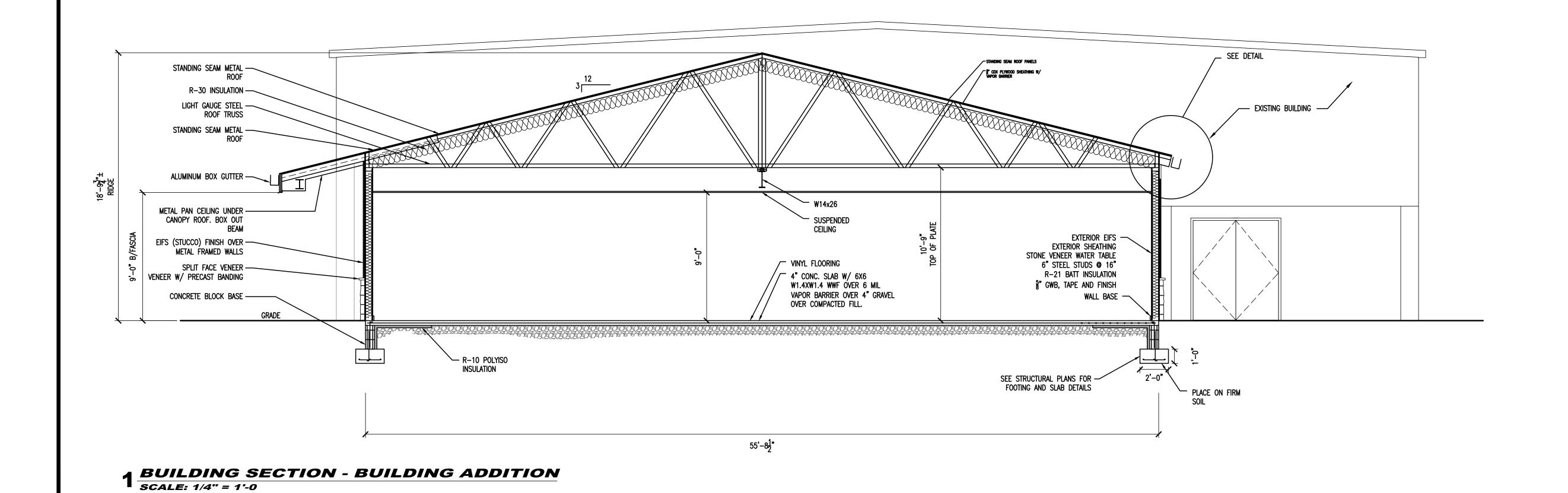
10.	DESCRIPTION	DATE		
AWING TITLE:				
SECTIONS				

DRAWN BY: CHECKED BY:

**A-3.2** 



SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"

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RUNNEMEDE AMS BUILDING

OF LIA

BOROUGH (HARRY WIL

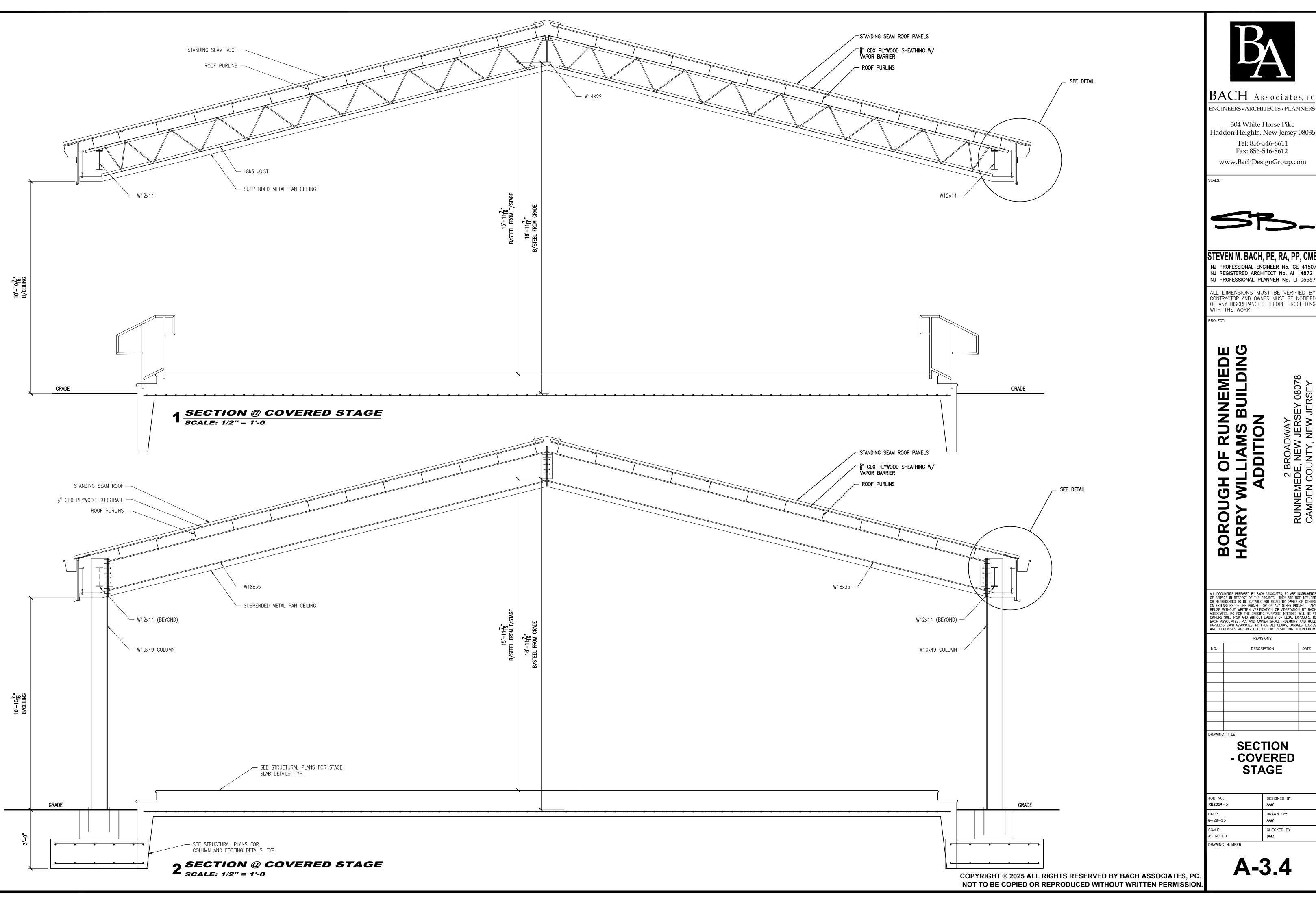
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DRAWING	TITLE:	

**SECTION AND DETAILS** 

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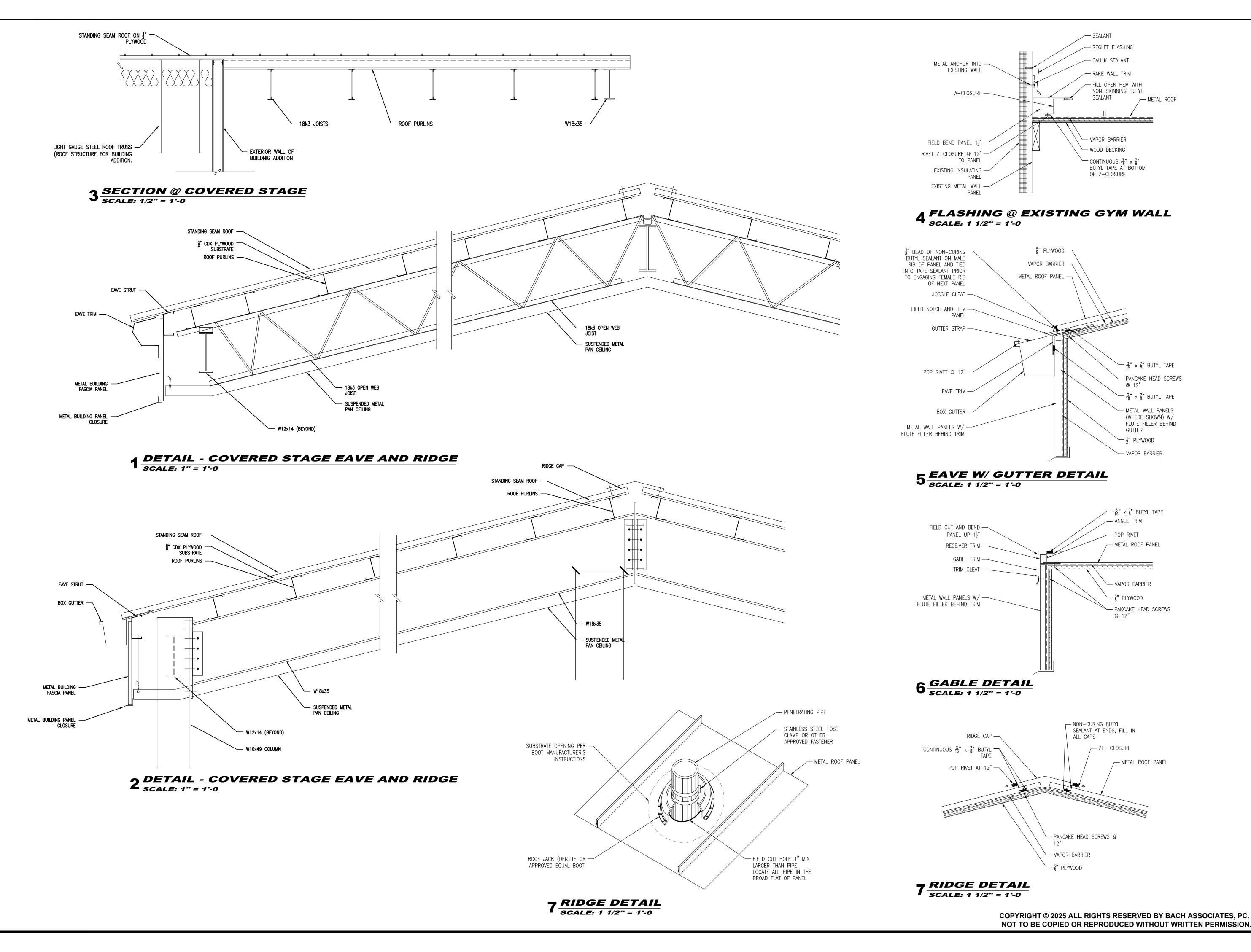
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SECTION			

- COVERED **STAGE** 

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NJ REGISTERED ARCHITECT No. AI 14872

NJ PROFESSIONAL PLANNER No. LI 05557

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PROJECT:

RUNNEMEDE AMS BUILDING TION

BOROUGH OF RUNN
HARRY WILLIAMS BI
ADDITION
2 BROADWAY
RUNNEMEDE NEW JERSEY

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DETAILS

DETAILS
- COVERED
STAGE

JOB NO:

RB2027-5

DATE:

B-29-25

SCALE:

AS NOTED

DESIGNED BY:

AAW

DRAWN BY:

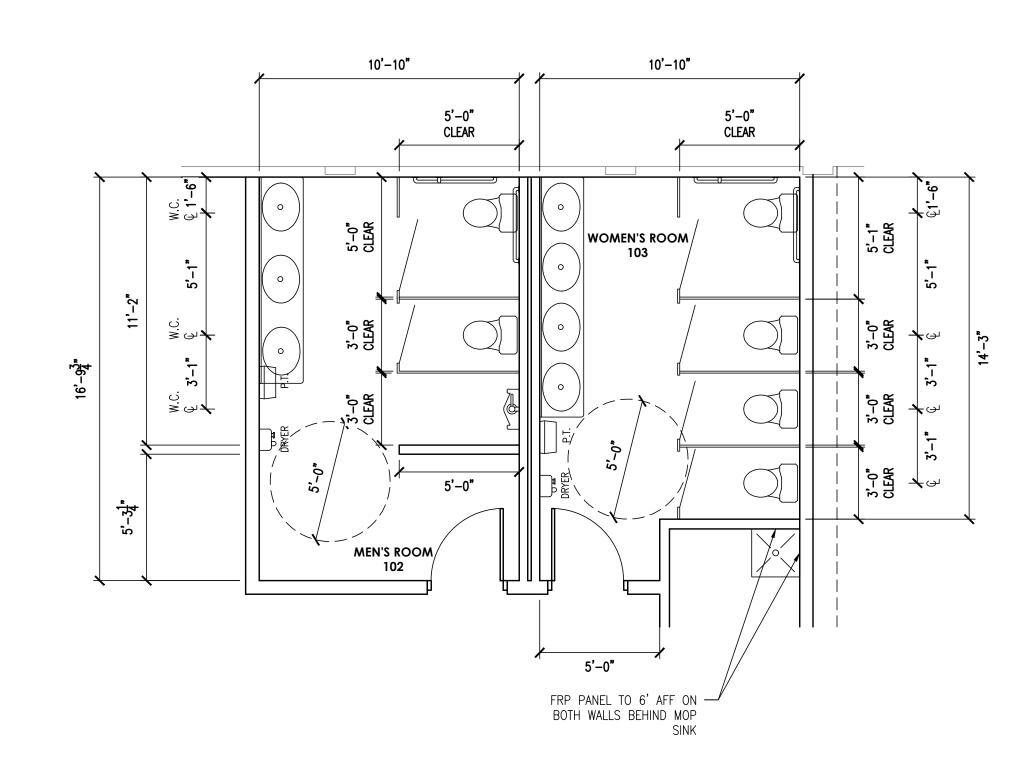
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BMB

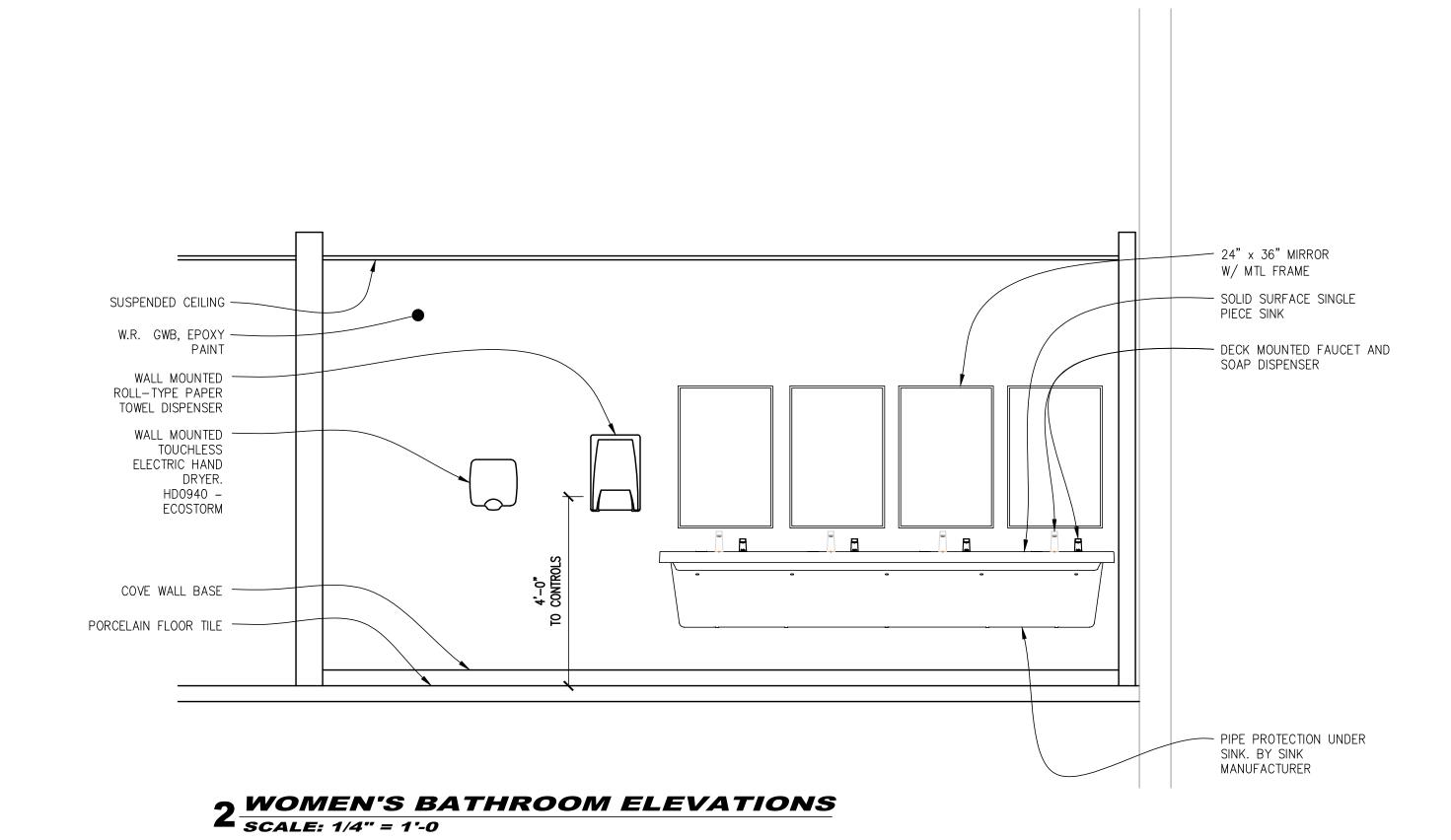
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A-3.5



1 BATHROOM PLANS
SCALE: 1/4" = 1'-0

3 WOMEN'S BATHROOM ELEVATIONS SCALE: 1/4" = 1'-0



SUSPENDED CEILING SUSPENDED CEILING -SOLID PLASTIC TOILET -COMPARTMENTS W.R. GWB, EPOXY — PAINT - W.R. GWB, EPOXY PAINT SOLID SURFACE SINGLE - TOILET PAPER PIECE SINK DISPENSER PROVIDE GRAB BARS PER ---DECK MOUNTED FAUCET AND — SOAP DISPENSER CABO/ANSI A117 W/ - PROVIDE GRAB BARS PER BLOCKING AS REQ'D CABO/ANSI A117 W/ BLOCKING AS REQ'D TOILET PAPER ——
DISPENSER SOLID PLASTIC TOILET FLOOR-MOUNTED > WATER CLOSET FLOOR-MOUNTED COMPARTMENTS WATER CLOSET COVE WALL BASE - COVE WALL BASE PORCELAIN TILE PORCELAIN FLOOR TILE FLOOR FLOOR-MOUNTED WATER CLOSET

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# RUNNEMEDE AMS BUILDING BOROUGH OF RUN HARRY WILLIAMS I ADDITION

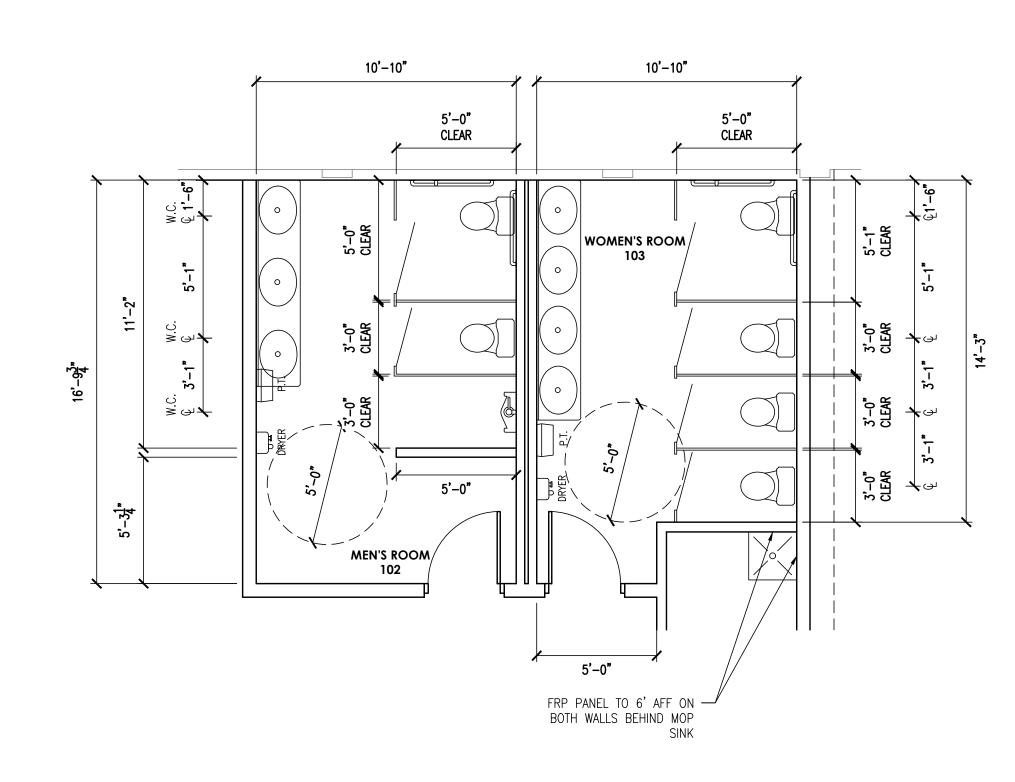
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BATHROOM **PLAN AND ELEVATIONS** 

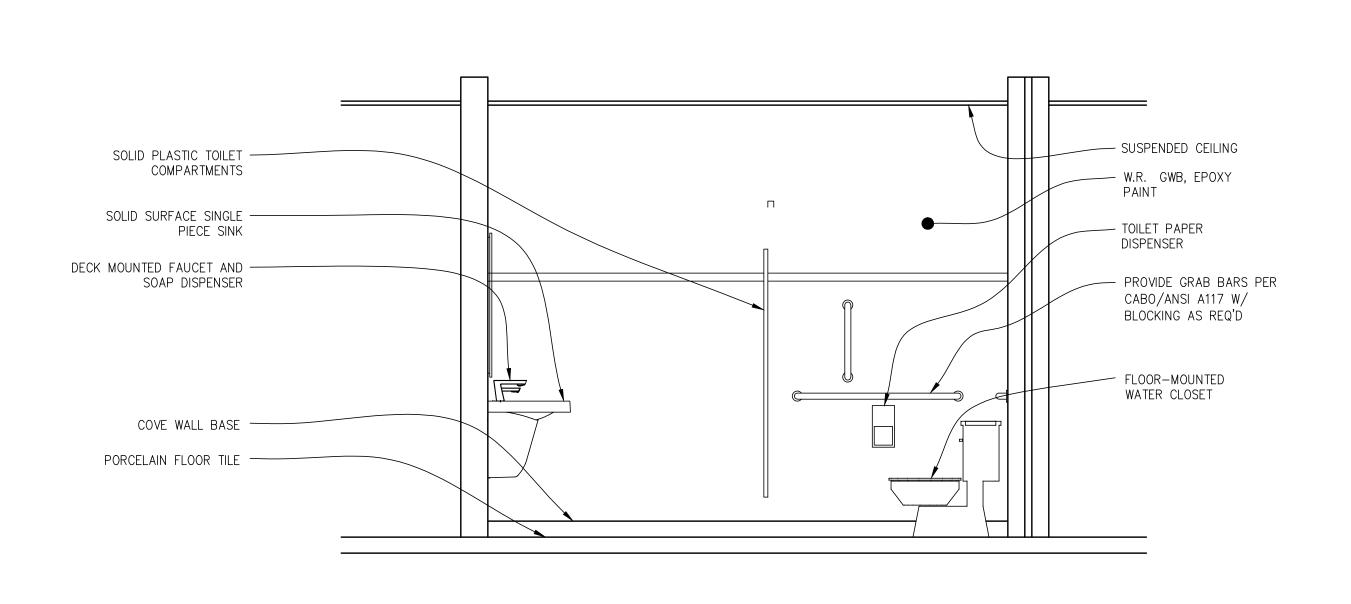
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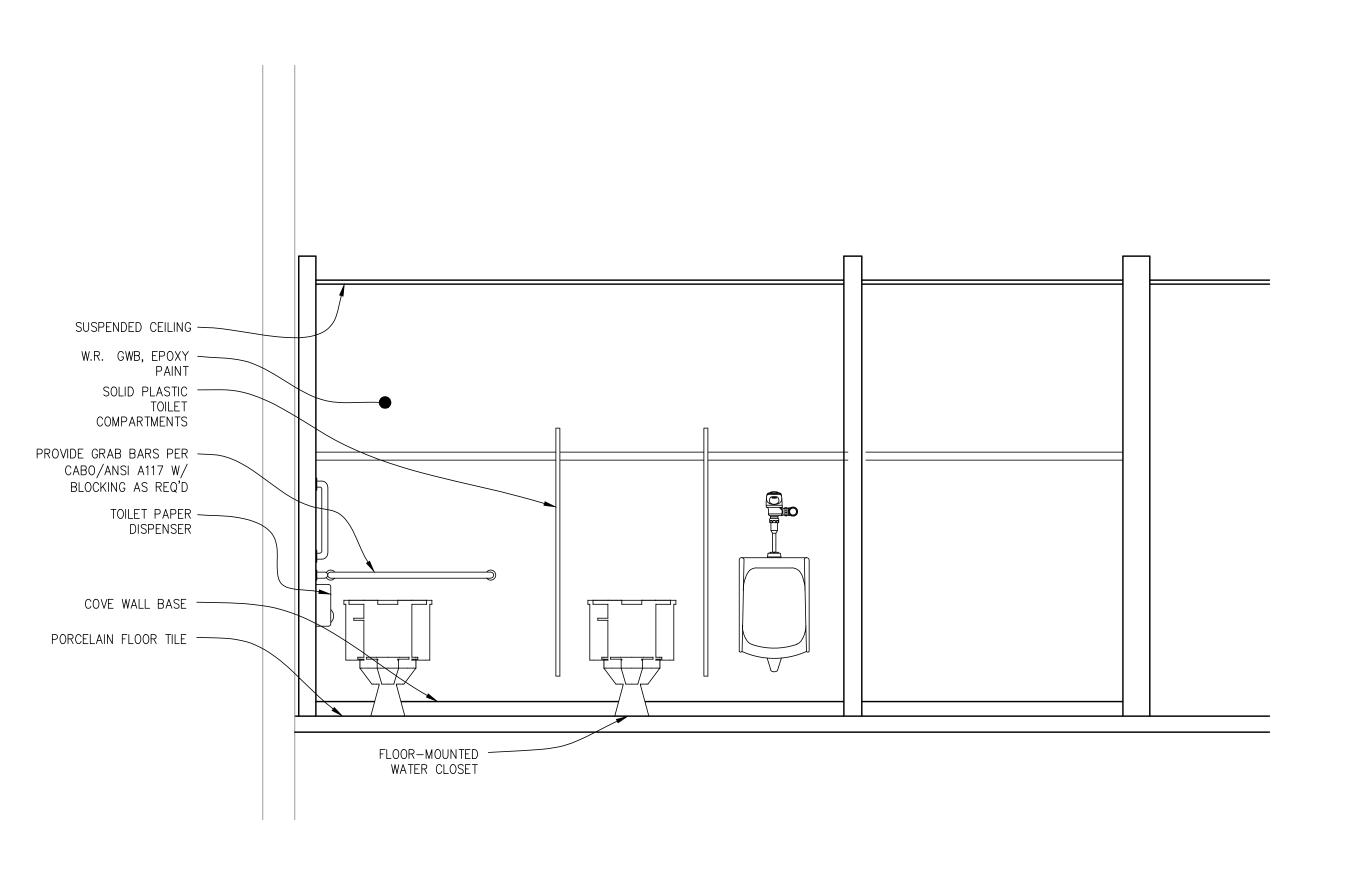
**A-4.1** 



### 1 BATHROOM PLANS SCALE: 1/4" = 1'-0

### 2 MEN'S BATHROOM ELEVATIONS SCALE: 1/4" = 1'-0





- 24" x 36" MIRROR W/ MTL FRAME - SOLID SURFACE SINGLE SUSPENDED CEILING — PIECE SINK W.R. GWB, EPOXY - DECK MOUNTED FAUCET AND SOAP DISPENSER PAINT WALL MOUNTED ROLL-TYPE PAPER TOWEL DISPENSERS WALL MOUNTED TOUCHLESS ELECTRIC HAND DRYER. HD0940 -ECOSTORM COVE WALL BASE -PORCELAIN FLOOR TILE -- PIPE PROTECTION UNDER SINK. BY SINK MANUFACTURER

BA

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PROJECT:

BOROUGH OF RUNNEMEDE
HARRY WILLIAMS BUILDING
ADDITION

2 BROADWAY
RUNNEMEDE, NEW JERSEY (

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BATHROOM PLAN AND ELEVATIONS

JOB NO:

RB2027-5

DATE:

B-29-25

SCALE:

AS NOTED

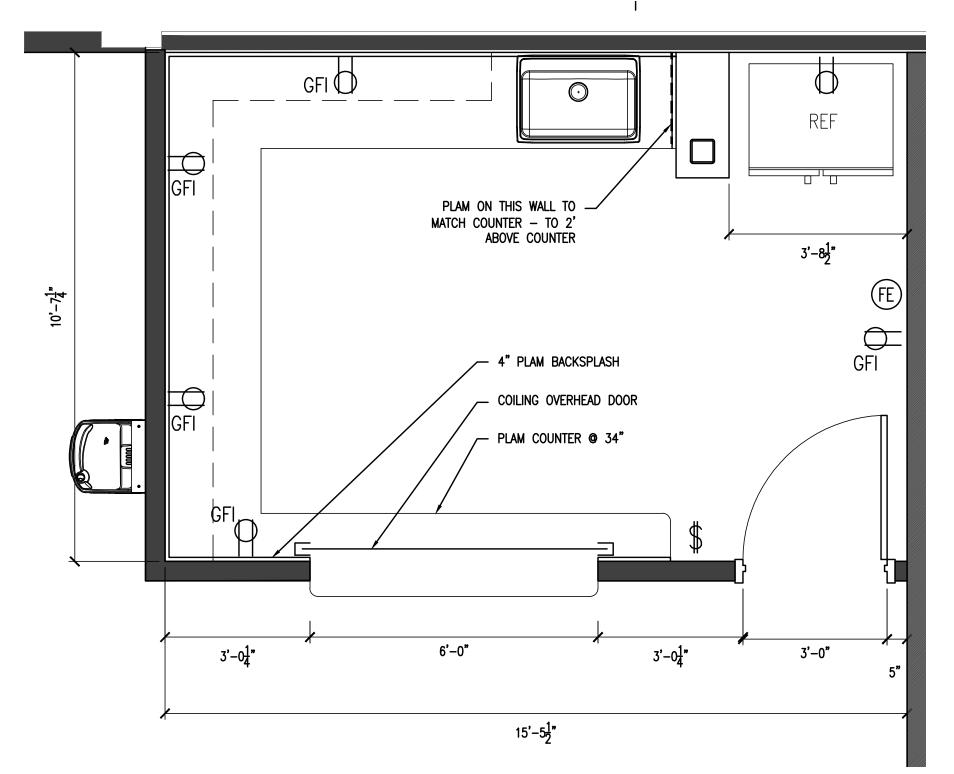
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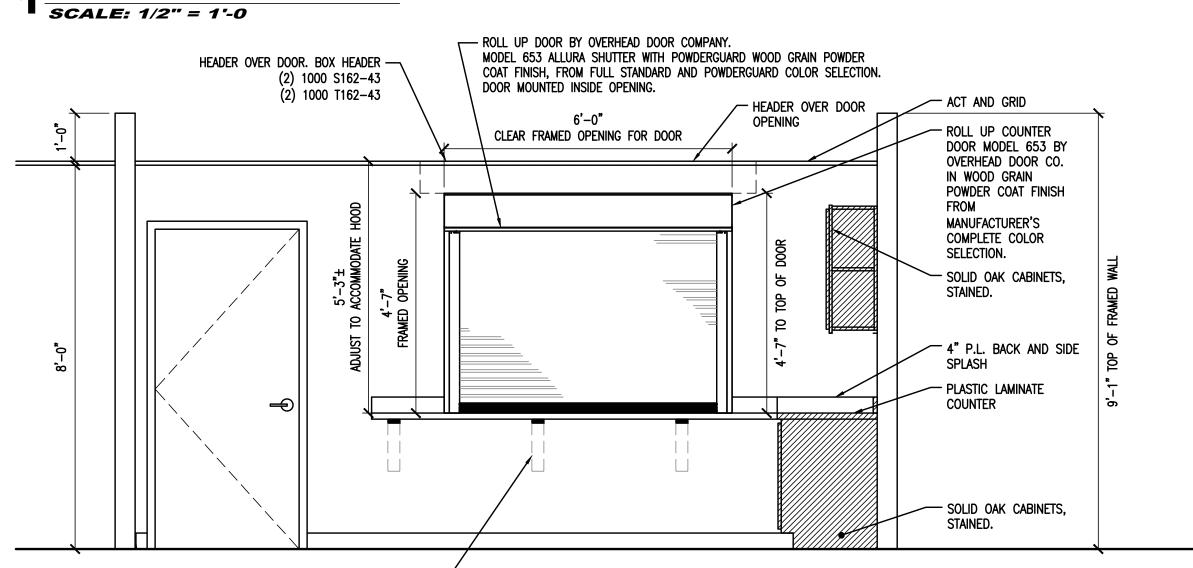
DRAWN BY:

AS MB

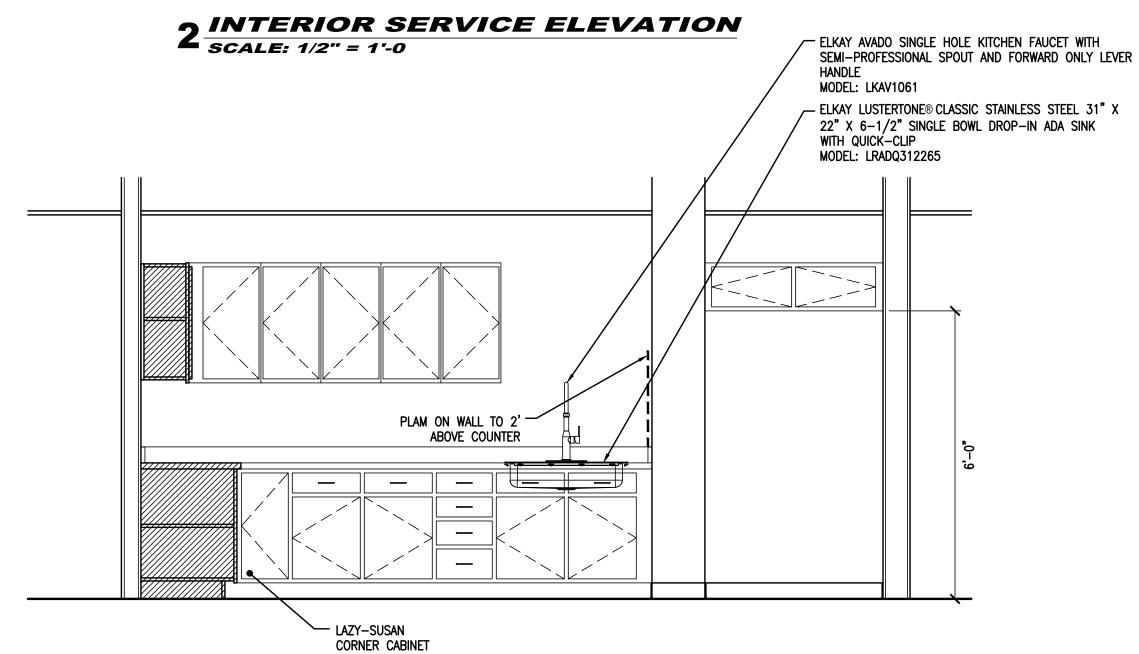
A-4.2



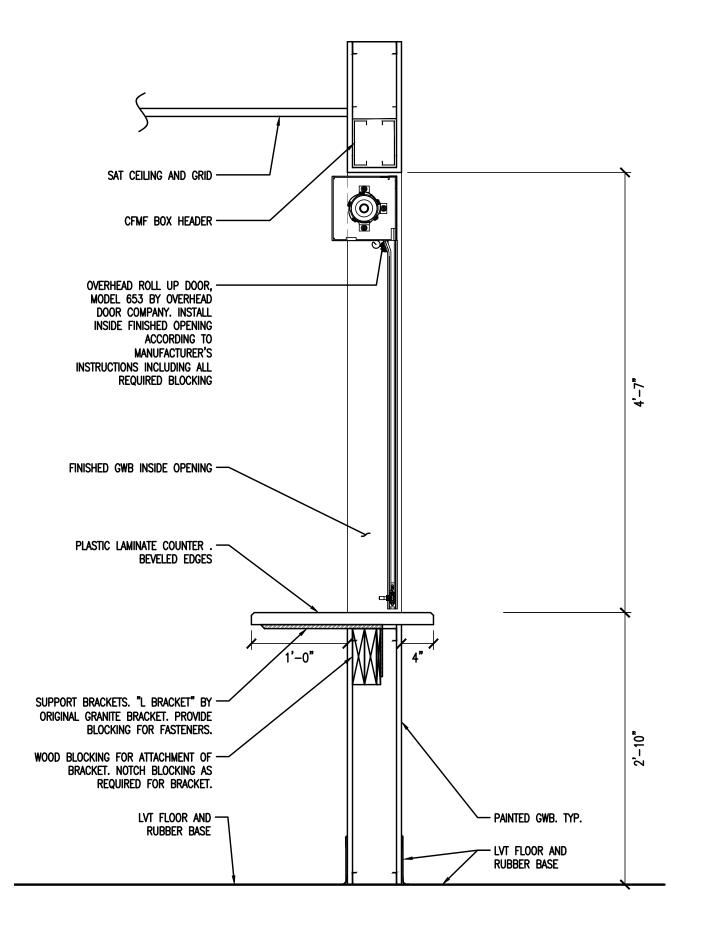
### **A SERVICE AREA PLAN**



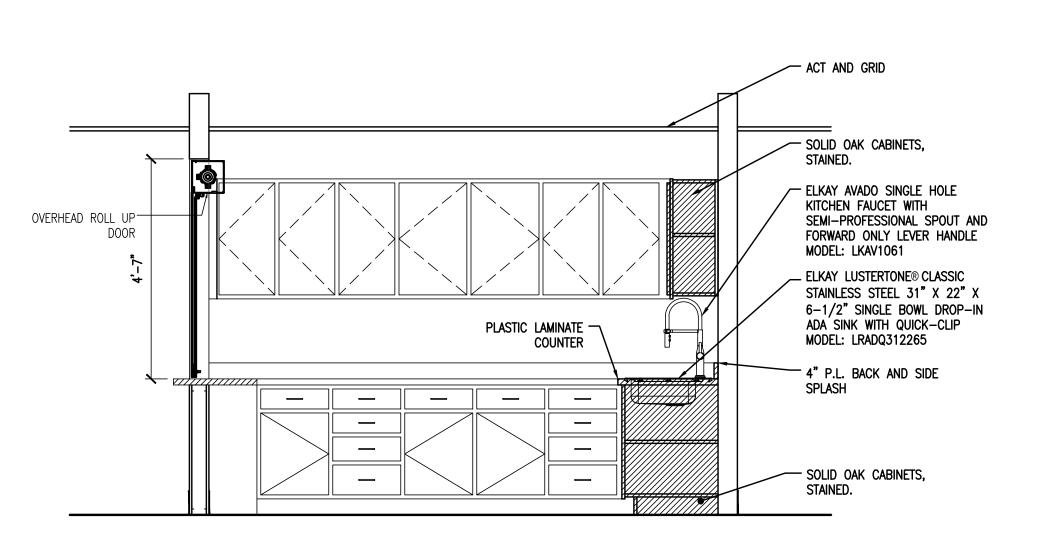
PLASTIC LAMINATE COUNTER WITH SUPPORT BRACKETS — **©** 36". "L BRACKET" BY ORIGINAL GRANITE BRACKET. PROVIDE BLOCKING FOR FASTENERS.



5 INTERIOR SERVICE ELEVATION SCALE: 1/2" = 1'-0



2 SECTION @ SERVICE WINDOW **3** SCALE: 1" = 1'-0



6 INTERIOR SERVICE ELEVATION SCALE: 1/2" = 1'-0



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# RUNNEMEDE AMS BUILDING

BOROUGH OF RUN HARRY WILLIAMS ADDITION

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REVISIONS DESCRIPTION

### SERVICE AREA **ELEVATIONS AND DETAILS**

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DATE: 8-29-25	DRAWN BY:
SCALE: AS NOTED	CHECKED BY:
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A-4.3

- EXTENTION OF P.L. COUNTER

BEYOND SERVICE WINDOW

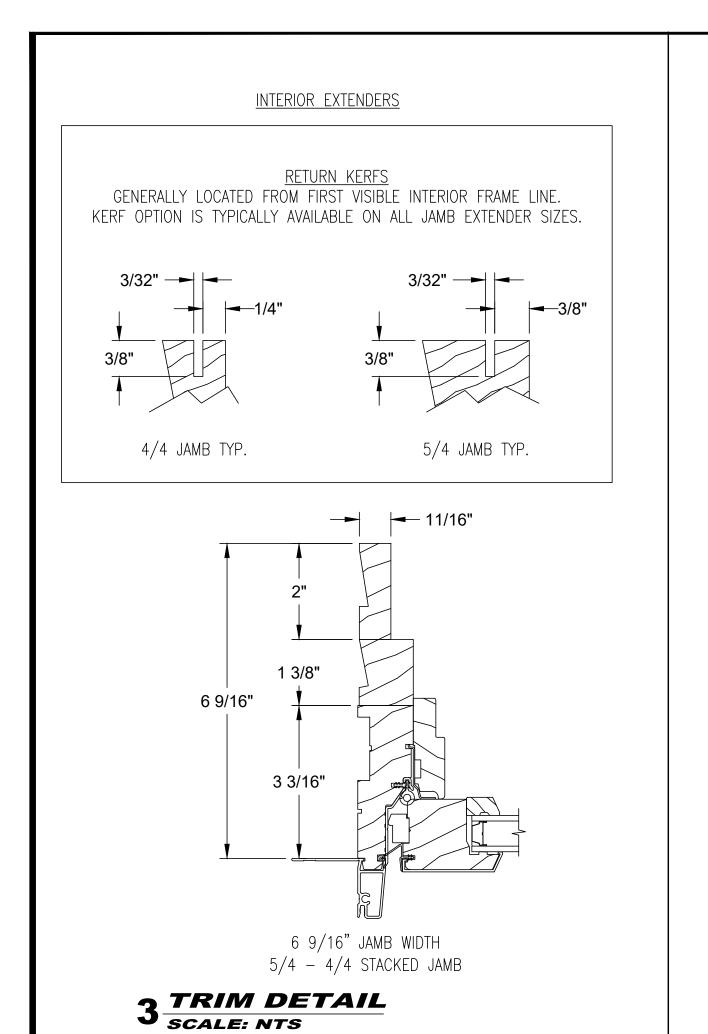
- GUIDE FOR ROLL UP DOOR

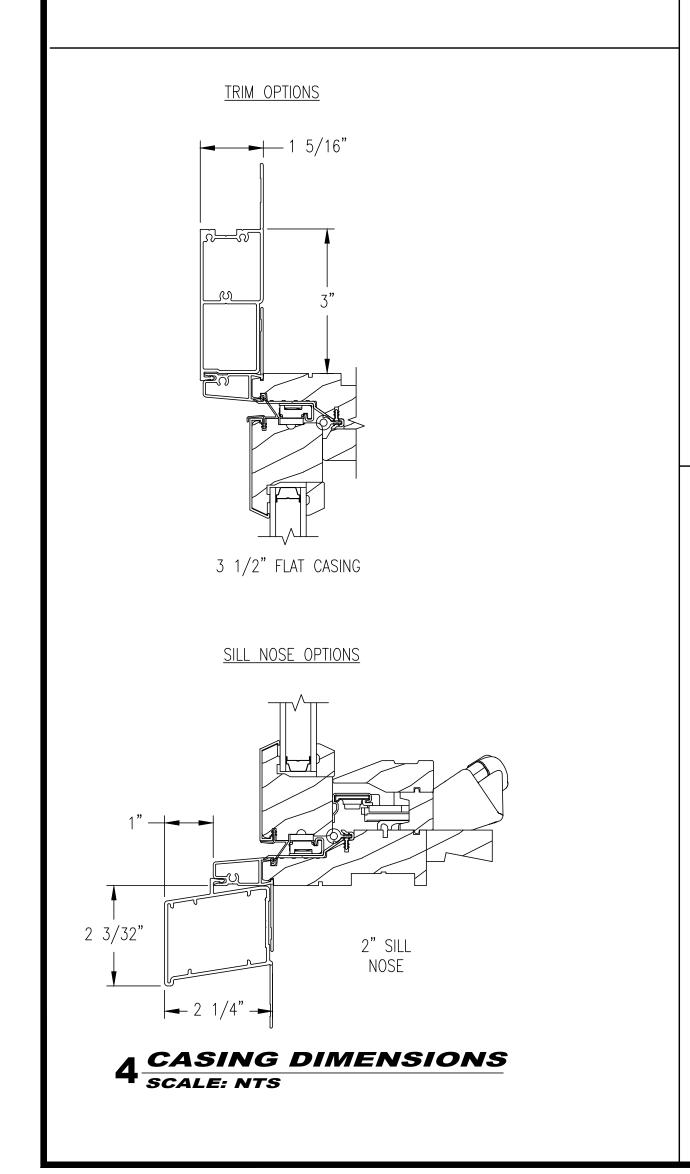
PLASTIC LAMINATE COUNTER. BEVELED EDGES.

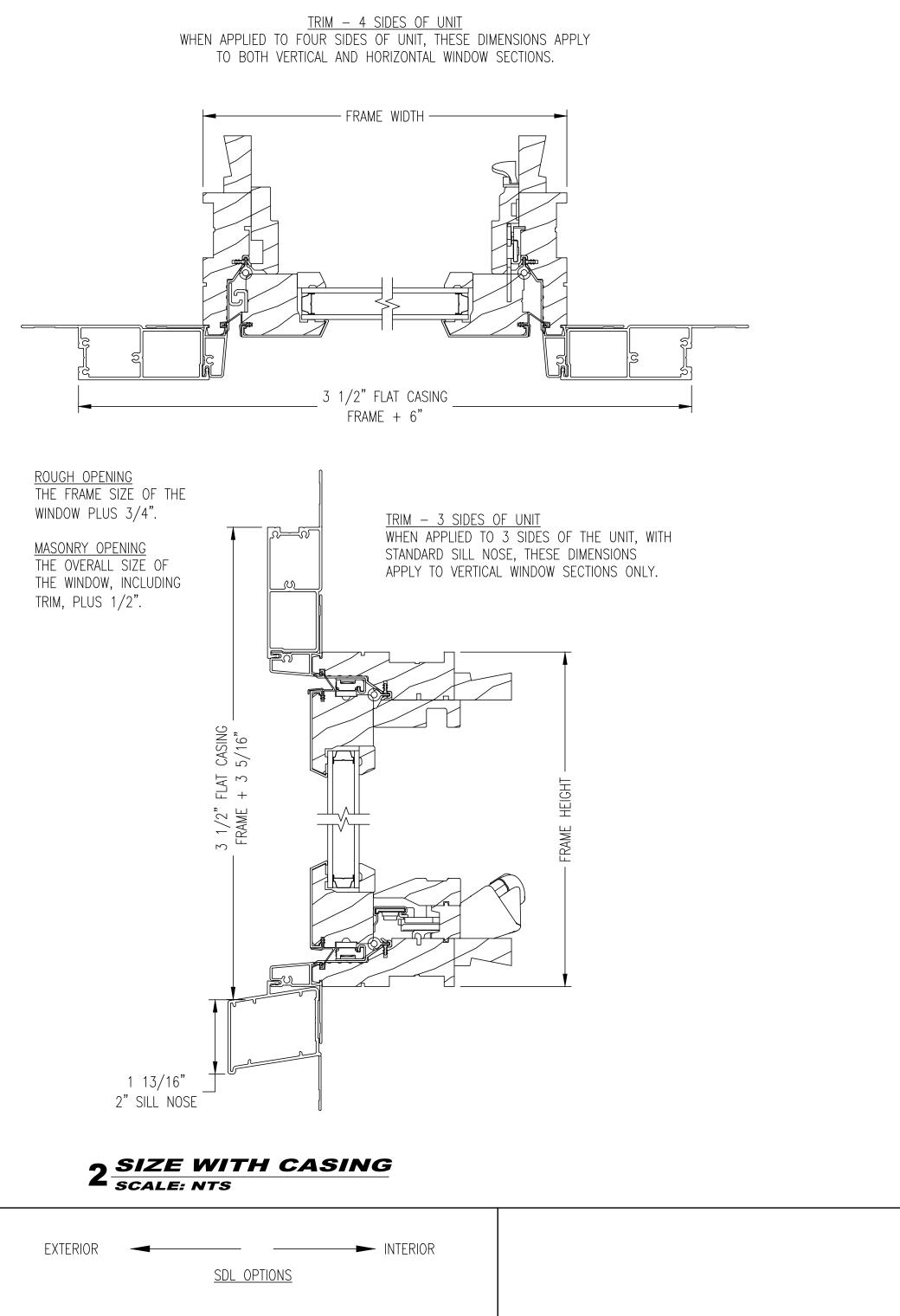
4 DETAIL - SERVICE WINDOW OPENING SCALE: 1/2" = 1'-0

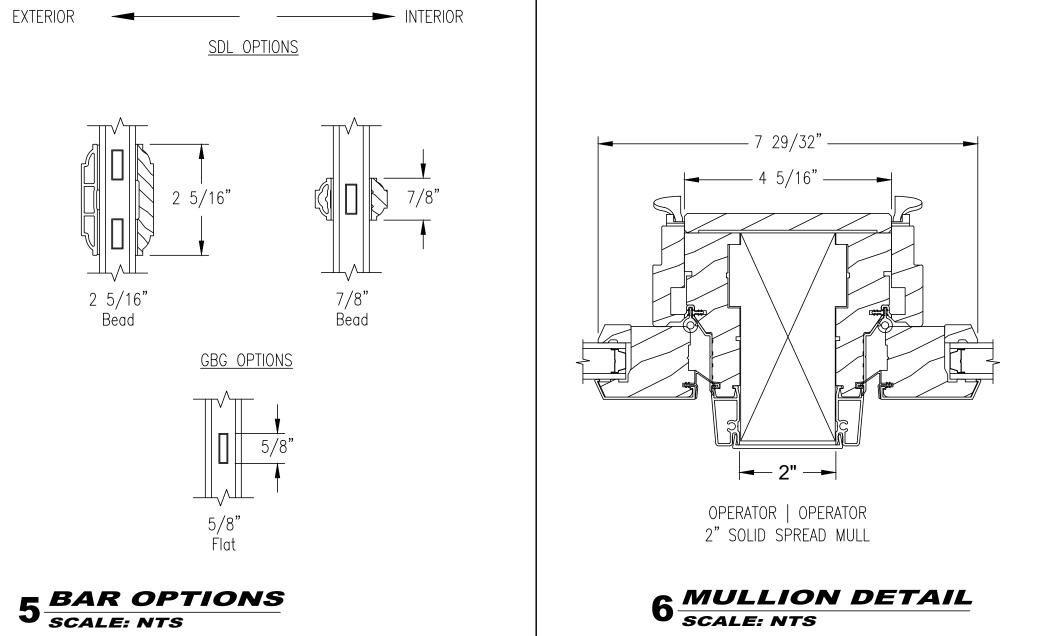
- RADIUS CORNER. TYP.

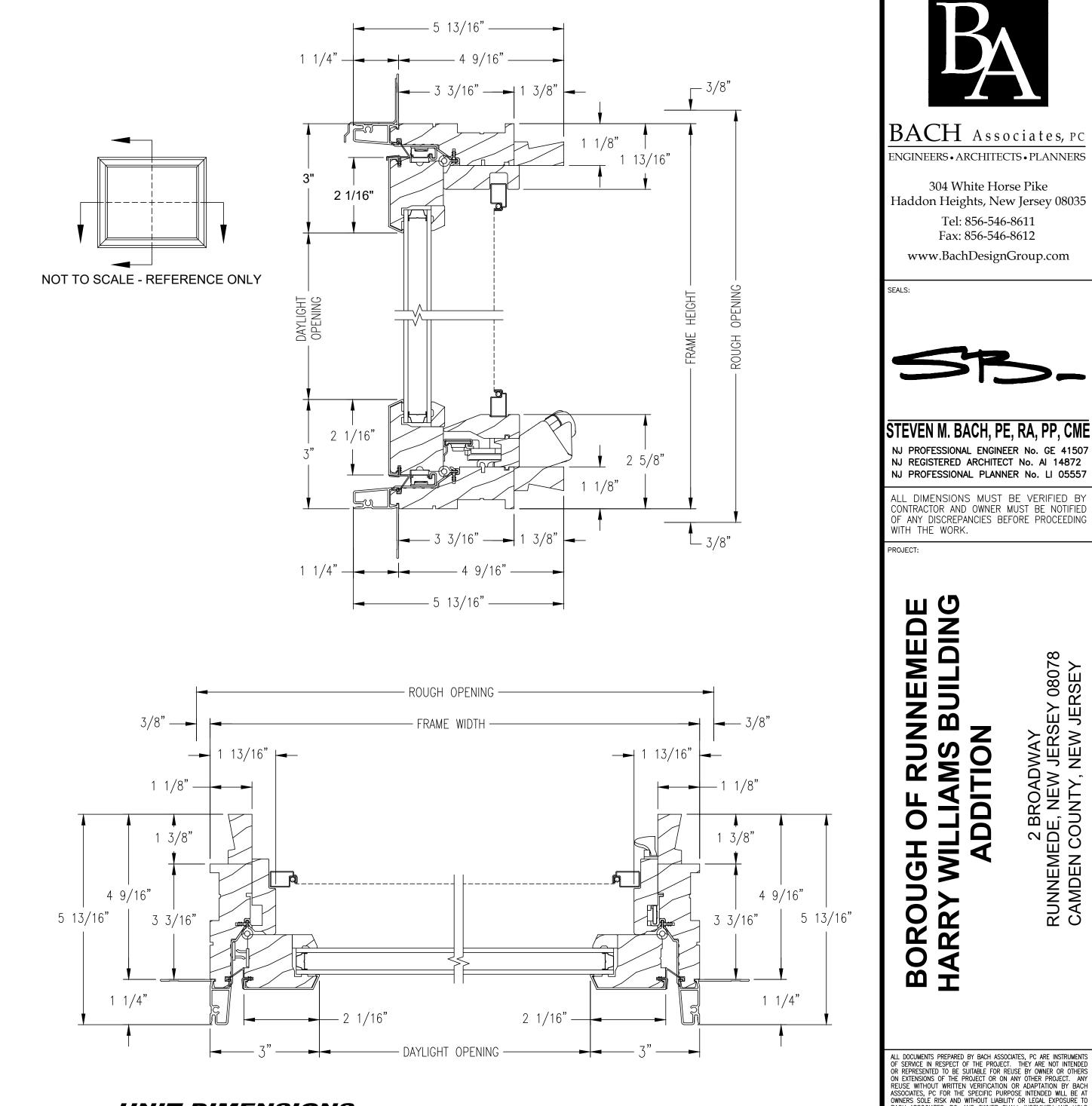
- SEAL EDGE OF COUNTER AT WALL.











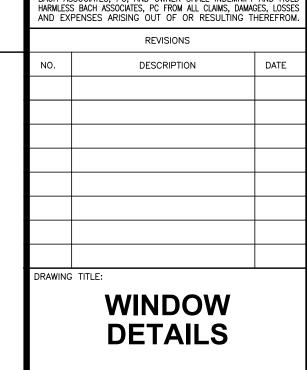
SCALE: NTS

GLASS STOP OPTIONS

TRADITIONAL

7 GLASS STOP SCALE: NTS





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OF LIA

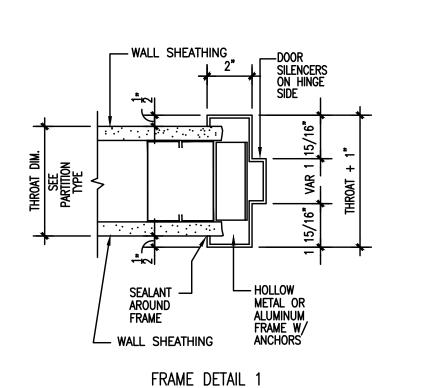
BOROUGH HARRY WIL

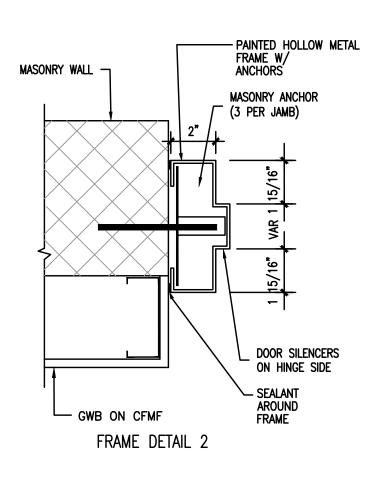
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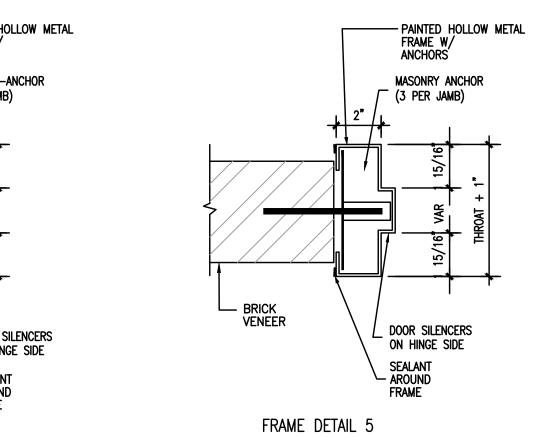
BASIS OF DESIGN: JELD-WEN W-5500 CLAD WOOD WINDOW. CASEMENT.

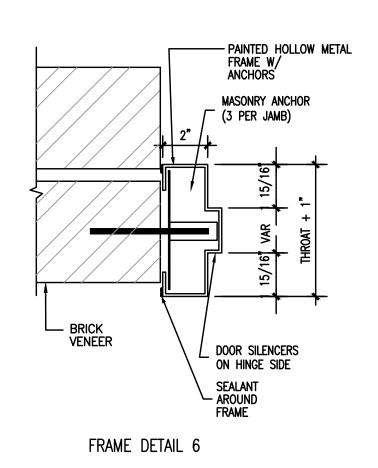
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MASONRY WALL	PAINTED HOLLOW METAL FRAME W/ ANCHORS
<b>1</b>	MASONRY ANCHOR  √ (3 PER JAMB)
	2" / 1
	VAR 1 15/16"
$\times$	<b>A</b> *
<b>\$</b>	₩
	15/16"
	-
	DOOR SILENCERS ON HINGE SIDE
I	SEALANT AROUND FRAME
FRAME DETA	JL 3





### ROOM FINISH SCHEDULE WALLS: CEILING CEILING REMARKS: ROOM #: ROOM NAME: HEIGHT: FLOOR: BASE: EAST WEST NORTH SOUTH VESTIBULE LVT RUB PAINT PAINT PAINT PAINT EXG. 9'-0" LOBBY LVT RUB PAINT PAINT PAINT PAINT ACT 9'-0" SERVICE LVT RUB PAINT PAINT PAINT 9'-0" PAINT MEN'S ROOM | EPX EPX EPX EPX ACT 9'-0" WOMEN'S ROOM EPX EPX EPX ACT 9'-0" EPX ACT 104 JANITOR LVT RUB EPX EPX EPX 9'-0" EGEND:

						DOO	R SC	CHED	ULE			
DOOR	DOOR			FRAME		FRAME	HARDWARE	HARDWARE DOOR	FIRE			
NUMBER	SIZE	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	DETAIL	SET	THRESHOLD	RATING	REMARKS
					•				•			
001	3'-0" x 7'-0" 2'-0" X 7'-0"	3 2	STL STL	PM PM	3	НМ	PM	3	001	AL	_	
002	3'-4" x 6'-8"	3	STL	PM	4	НМ	PM	2	002	_	_	3
003	3'-4" x 6'-8"	3	STL	PM	4	НМ	PM	3	003	_	_	3
004	(2) 3'-0" x 7'-0"	3	WD	Р	1	НМ	PM	3	004	_	_	3
005	(2) 3'-0" x 7'-0"	3	STL	PM	1	НМ	PM	3	005	_	_	3
						,	•					
100	(2) 3'-0" x 7'-0"	1	FRP	FF	1	AL	FF	1	100	AL	_	1, 3
101	3'-0" x 7'-0"	2	WD	Р	2	НМ	РМ	1	101	-	_	3
102	3'-0" x 7'-0"	2	WD	Р	2	НМ	PM	1	102	MAR	_	3
103	3'-0" x 7'-0"	2	WD	Р	2	НМ	PM	1	103	MAR	_	3
104	3'-0" x 7'-0"	2	WD	Р	2	НМ	PM	1	104	_	_	3

LEGEND:	
A I	A L L IA A

ALUMINUM CLR CLEAR ANODIZED WD WOOD PM PAINTED METAL ME MATCH EXISTING EX EXISTING POLY STAINED HM HOLLOW METAL

VCT: VINYL COMPOSITITION TILE

RUB: RUBBER COVE BASE

LVT: LUXURY VINYL TILE

CPT: CARPET TILE

RES RESCUE HARDWARE CLASSROOM LOCKET PAS PASSAGE LATCH ST STORE ROOM LOCKET

ACT: ACOUSTICAL CEILING TILE EXG: EXISTING

PT: PORCELAIN TILE

EPX: EPOXY PAINT

COVE: VINYL COVE BASE

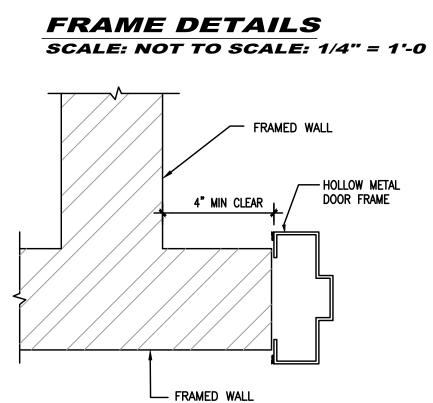
PB PANIC BAR KPL KEYED POCKET DOOR LATCH PRV PRIVACY LOCKET FF FACTORY FINISH STL STEEL

FG ALL FIBERGLASS P PAINT FRP FIBER REINFORCED PLASTIC

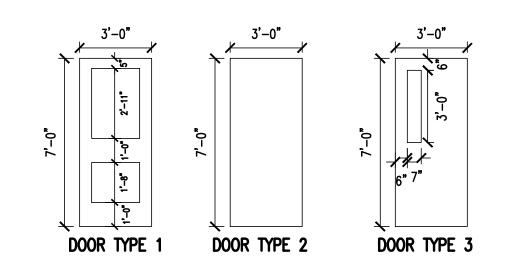
1. ALL GLAZING FOR DOOR AND WINDOW SHALL BE TEMPERED PLATE GLASS UNLESS NOTED OTHERWISE 2. FIRE RATING TO BE APPLIED TO BOTH DOOR AND FRAME CONSTRUCTION.

3. GENERAL CONTRACTOR TO SUBMIT ALL DOOR FRAME & HARDWARE FOR ARCHITECT REVIEW AND APPROVAL

### — PAINTED HOLLOW METAL MASONRY WALL ANCHORS MASONRY T-ANCHOR (3 PER JAMB) DOOR SILENCERS ON HINGE SIDE FRAME DETAIL 4

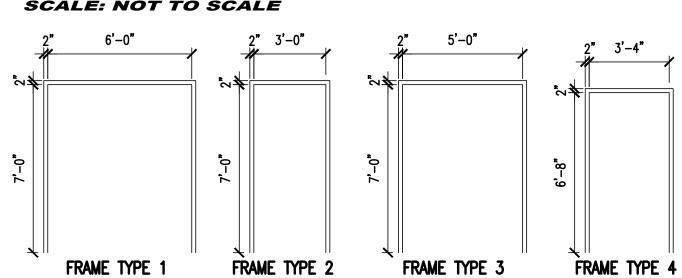


### **DOOR FRAME RETURN** SCALE: NOT TO SCALE

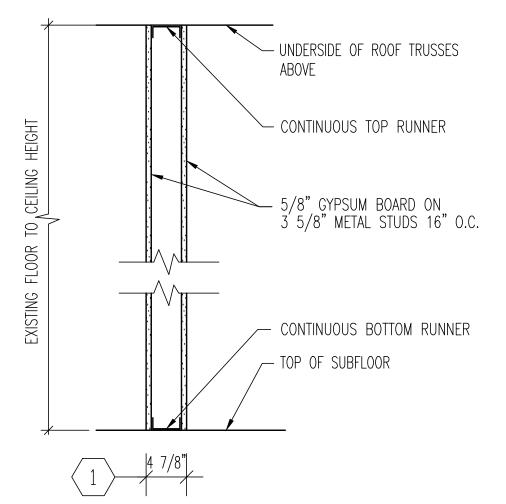


### **DOOR TYPES**

SCALE: NOT TO SCALE



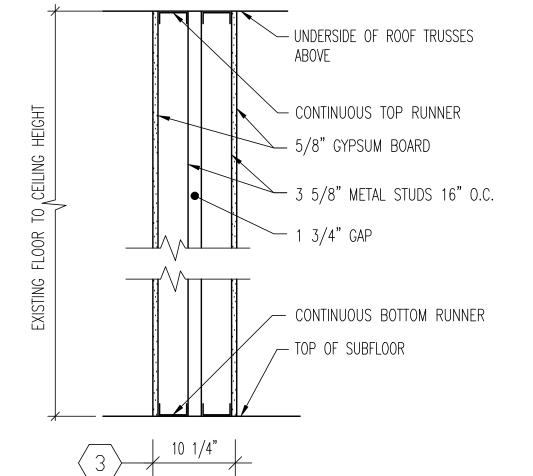
FRAME TYPES SCALE: NOT TO SCALE

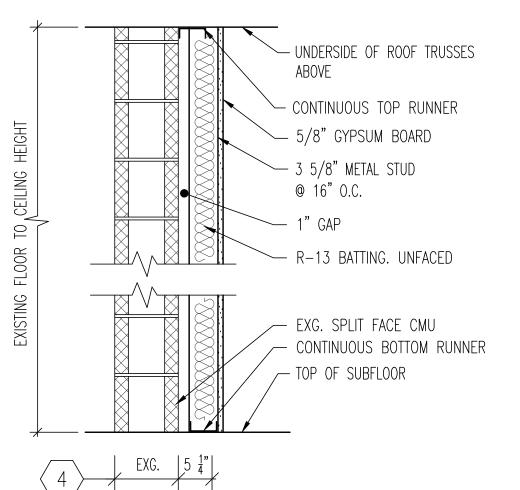


**PARTITION TYPES** 

SCALE: NOT TO SCALE

ABOVE		ABOVE
CONTINUOUS TOP RUNNER	HEIGHT	CONTINUOUS TOP RUNNER
5/8" GYPSUM BOARD ON 3 5/8" METAL STUDS 16" O.C.	FLOOR TO CEILING	5/8" GYPSUM BOARD ON 5 1/2" METAL STUDS 16" O.C.
	EXISTING FL	R-19 UNFACED BATTING
CONTINUOUS BOTTOM RUNNER  — TOP OF SUBFLOOR	EXIS	CONTINUOUS BOTTOM RUNNER  TOP OF SUBFLOOR
TOP OF SUBFLOOR	+	TOP OF SUBFLOOR
1 4 7/8"	,	2 6 3/4"





1. ALL WALLS IN SPACE INDICATED ARE TO RECEIVE EPOXY PAINT PER SPECIFICATION.

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WITH THE WORK.

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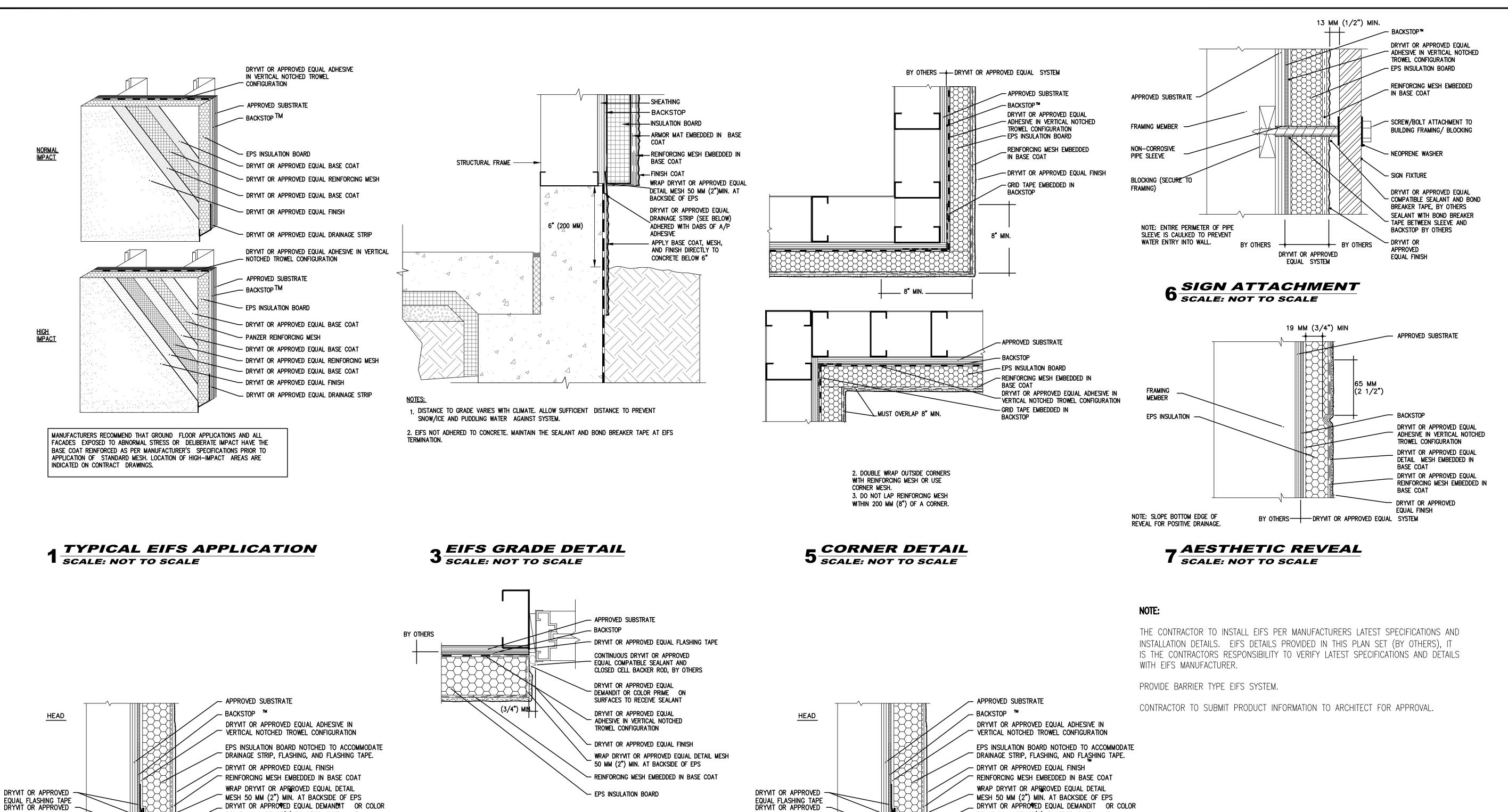
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DRAWING	DRAWING TITLE:				
	SCHEDIII ES				

SCHEDULES **AND DETAILS** 

DRAWN BY: 8-29-25 CHECKED BY: AS NOTED DRAWING NUMBER:



EQUAL FLASHING TAPE DRYVIT OR APPROVED

**EQUAL DRAINAGE STRIP** 

\_ DRYVIT OR APPROVED EQUAL DEMANDIT OR COLOR

DRYVIT OR APPROVÈD EQUAL COMPATIBLE SEALANT

WITH CLOSED CELL BACKER ROD AND WEEP TUBES

4 JAMB DETAIL SCALE: NOT TO SCALE

PRIME ON SURFACE(S) TO RECEIVE SEALANT

\_\_EVERY 600 MM (24"). BY OTHERS \_\_\_\_ 19 MM (3/4") MIN.

- CONTINUOUS FLASHING, BY OTHERS

COMPATIBLE SEALANT, BY OTHERS

✓ WRAP DRYVIT OR APPROVED EQUAL

- APPLY DRYVIT OR APPROVED EQUAL

TEXTURED FINISH DIRECTLY TO FACE OF

CONCRETE AND MESH - CONTINUE BELOW

DETAIL MESH OVER CHAMFER

FILLET CAULK WITH BOND

- 45° CHAMFER IN CONCRETE

LINE OF GRADE

BY OTHERS — DRYVIT OR APPROVED EQUAL SYSTEM

2 HEAD/ SILL DETAIL

SCALE: NOT TO SCALE

- DRYVIT OR APPROVED EQUAL

BREAKER, BY OTHERS

EQUAL DRAINAGE STRIP

<u>SILL</u>

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REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY BACK
ASSOCIATES, PC FOR THE SPECIFIC PURPOSE INTENDED WILL BE A'
OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO
BACH ASSOCIATES, PC; AND OWNER SHALL INDEMNIFY AND HOLL
HARMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES
AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM MESH 50 MM (2") MIN. AT BACKSIDE OF EPS . DRYVIT OR APPRO**Y**ED EQUAL DEMANDIT OR COLOR PRIME ON SURFACE(S) TO RECEIVE SEALANT DRYVIT OR APPROVÈD EQUAL COMPATIBLE SEALANT REVISIONS WITH CLOSED CELL BACKER ROD AND WEEP TUBES LEVERY 600 MM (24"). BY OTHERS DESCRIPTION \_ 19 MM (3/4") MIN.

DATE RAWING TITLE: **EIFS DETAILS** 

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ALL DIMENSIONS MUST BE VERIFIED E

CONTRACTOR AND OWNER MUST BE NOTIFIED

OF ANY DISCREPANCIES BEFORE PROCEEDING

WITH THE WORK.

RUNNEMEDE MS BUILDING

OF LIA

BOROU(HARRY

www.BachDesignGroup.com

DESIGNED BY: RB202#-5

DRAWN BY:

CHECKED BY:

AS NOTED RAWING NUMBER:

8-29-25

A-5.3

- CONTINUOUS FLASHING, BY OTHERS

FILLET CAULK WITH BOND

- 45° CHAMFER IN CONCRETE

LINE OF GRADE

- DRYVIT OR APPROVED EQUAL

COMPATIBLE SEALANT, BY OTHERS

✓ WRAP DRYVIT OR APPROVED EQUAL

- APPLY DRYVIT OR APPROVED EQUAL

TEXTURED FINISH DIRECTLY TO FACE OF

CONCRETE AND MESH - CONTINUE BELOW

DETAIL MESH OVER CHAMFER

BREAKER, BY OTHERS

### GENERAL

- STRUCTURAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. FOR INCONSISTENCIES BETWEEN STRUCTURAL DRAWINGS, THE SPECIFICATIONS, AND ANY CODE OF STANDARD PRACTICE, THE STRICTER REQUIREMENT SHALL APPLY, AND THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED WITH OTHER CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, M/E/P, AND SITE DOCUMENTS. COORDINATE WITH THESE DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, ETC., NOT INDICATED ON THE STRUCTURAL DOCUMENTS. ALL DIMENSIONS AND CONDITIONS, EXISTING AND NEW, SHALL BE FIELD VERIFIED THE ENGINEER SHALL BE NOTIFIED OF DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE STABILITY AND SAFETY DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF SHEETING, SHORING, TEMPORARY BRACING, GUYS, AND TIEDOWNS, THE CONTRACTOR SHALL PROVIDE SHORING AND BRACING NECESSARY TO PROTECT EXISTING AND ADJACENT STRUCTURES.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS THAT DO NOT HAVE A SPECIFIC SECTION INDICATED, AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE
- APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED,
- INCLUDING THE FEDERAL DEPARTMENT OF LABOR OSHA . THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE SPECIFIED DESIGN LIVE LOADS. CONCRETE SLABS AND TOPPINGS SHALL NOT BE LOADED UNTIL THE CONCRETE HAS REACHED AT LEAST 75% OF THE SPECIFIED DESIGN COMPRESSIVE STRENGTH.
- THE CONTRACTOR'S CONSTRUCTION SEQUENCES SHALL ALLOW FOR THE EFFECTS OF THERMAL MOVEMENTS DURING THE CONSTRUCTION PERIOD, PRIOR TO THE BUILDING BEING ENCLOSED AND TEMPERATURE CONTROLLED. NEGATIVE EFFECTS OF SUCH THERMAL MOVEMENTS, SUCH AS MATERIAL CRACKING, FROST HEAVE, ETC., SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 3. IN THE ABSENCE OF SPECIFIC INSTRUCTIONS TO THE CONTRARY IN THE CONTRACT DOCUMENTS. THE TRADE PRACTICES THAT ARE DEFINED IN ANY CODE OF STANDARD PRACTICE SHALL GOVERN.

### EXISTING CONSTRUCTION

- BEFORE PROCEEDING WITH ANY WORK WITHIN THE EXISTING FACILITY, THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING STRUCTURAL AND OTHER CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION AND CONSTRUCTION, AND TO PROTECT FROM DAMAGE THOSE PORTIONS OF THE EXISTING WORK WHICH ARE TO REMAIN.
- THE CONTRACTOR SHALL FIELD VERIFY THE DIMENSIONS, ELEVATIONS, AND CONDITIONS NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW PORTIONS OF THE WORK. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS NECESSARY FOR FABRICATION AND ERECTION OF STRUCTURAL MEMBERS. ANY DISCREPANCY SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.

### STRUCTURAL DESIGN CRITERIA

- DESIGN LOADS ARE IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION, ASCE 7-16 AND LOCAL CODE.
- OCCUPANY GROUP = A-3 (ASSEMBLY) RISK CATEGORY = II
- DESIGN LIVE LOADS ARE AS FOLLOWS. LIVE LOAD REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE, UNO.

30 PSF ADDITI*O*N 100 PSF 150 PSF STA6E

4. SNOW LOADING IS BASED ON THE FOLLOWING. DRIFTING OR SLIDING SNOW LOADS HAVE BEEN CONSIDERED WHERE APPROPRIATE.

GROUND SNOW LOAD (Pq) 20 PSF 20 PSF ROOF DESIGN SNOW LOAD (Pf) SNOW EXPOSURE FACTOR (Ce) 1.0 SNOW LOAD IMPORTANCE FACTOR (I) 1.0 1.0 SNOW THERMAL FACTOR (ct) WIND LOADING IS BASED ON THE FOLLOWING:

±0.18

ULTIMATE WIND SPEED(3 SEC GUST) 89.1 MPH NOMINAL WIN SPEED IMPORTANCE FACTOR 1.0 WIND EXPOSURE

INTERNAL PRESSURE COEFF.

SEISMIC LOADING IS BASED ON THE FOLLOWING: SEISMIC IMPORTANCE FACTOR SPECTRAL RESPONSE ACCEL. (Ss) 0.174g SPECTRAL RESPONSE ACCEL. (S1) 0.046q

SITE CLASS (ASSUMED) SPECTRAL RESPONSE COEFF. (Sds) 0.186 SPECTRAL RESPONSE COEFF. (Sd1) 0.074 SEISMIC DESIGN CATEGORY,

BASIC SEISMIC RESISTING SYSTEM LIGHT FRAME (CFM) WALLS DESIGN BASE SHEAR 1.8K SEISMIC RESPONSE COEFF. (Cs) 0.093

RESPONSE MODIFICATION FACTOR (R) 2.0 ANALYSIS PROCEDURE

EQUIVALENT LATERAL FORCE

### FOUNDATIONS

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S REPORT PREPARED BY DIGNEO ENGINEERING, DATED JUNE 28,2024.
- SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL HAVING A MINIMUM SAFE BEARING CAPACITY OF 2500 PSF. THE BOTTOMS OF EXTERIOR FOOTINGS SHALL BE 36 IN. MINIMUM BELOW FINISHED GRADE.
- EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 (VERTICAL) TO 2 (HORIZ) SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION. ADJACENT COLUMN FOOTINGS THAT ABUT SHALL BE SEPARATED BY A PAPER
- JOINT. FOUNDATION CONCRETE SHALL BE NORMAL WEIGHT HAVING A MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH AS FOLLOWS:
  - SPREAD FOOTINGS 3000 PSI WALLS & PIERS 4000 PSI SLAB-ON-GRADE (INTERIOR) 3500 PSI
- SLAB-ON-GRADE (EXTERIOR) 4500 PSI, 0.45 W/C MAX. PROVIDE AIR-ENTRAINMENT IN ALL CONCRETE EXPOSED TO FREEZE-THAW CONDITIONS DURING THE CONSTRUCTION PERIOD AND/OR IN THE COMPLETED STRUCTURE.

### CONCRETE REINFORCING

- REINFORCED CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14. 2. CONCRETE REINFORCING SHALL CONFORM TO THE FOLLOWING DESIGNATIONS: DEFORMED BARS ASTM A615, GRADE 60 WELDED WIRE FABRIC ASTM A1064
- LAP DEFORMED BARS 40 DIA., UNO. PROVIDE CORNER AND L BARS AT CORNERS AND INTERSECTIONS. REINFORCING INDICATED AS CONTINUOUS SHALL BE LAPPED. HOOKS SHALL BE STANDARD HOOKS, UNO. LAP WELDED WIRE FABRIC SUCH THAT THE OVERLAP OF THE OUTERMOST CROSS-WIRES OF EACH ADJOINING SHEET IS NOT 11 LESS THAN THE SPACING OF THE CROSS-WIRES PLUS TWO IN., UNO.
- 4. CONCRETE PROTECTION FOR REINFORCEMENT: CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 IN. CONCRETE EXPOSED TO EARTH OR WEATHER:
  - NO. 5 BAR AND SMALLER: 1-1/2 IN. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS:
    - NO. 11 BAR AND SMALLER: 3/4 IN. BEAMS. COLUMNS. PIERS: 1-1/2 IN.
- REINFORCING FOR SLABS ON GRADE, WHERE NOT OTHERWISE SPECIFIED, SHALL BE AS FOLLOWS:
- REINFORCING BARS: SEE FOUNDATION AND TYPICAL DETAILS. AT SLAB BLOCKOUT AND RE-ENTRANT CORNERS, PROVIDE 2#5 X 4'-0" DIAGONALS. 6x6-W2.9 x W2.9 WWF. REINFORCING SHALL BE SUPPORTED AT MID-DEPTH OF SLAB.
- 6. DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL CONFORM TO ACI DETAILING MANUAL SP-66, AND WITH ACI 315, MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.

### CONCRETE MASONRY

- CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", TMS 402-16, AND "SPECIFICATIONS FOR MASONRY STRUCTURES", TMS 602-16.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY, F'M, SHALL BE 1500 PSI. (MIN NET AREA COMPRESSIVE STRENGTH OF UNIT = 1900 PSI.)
- CONCRETE MASONRY REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM
- GROUT SHALL CONFORM TO ASTM C476, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. PROVIDE FINE AND COARSE GROUTS APPROPRIATE FOR SIZE OF VOID BEING FILLED. GROUT SHALL HAVE A MINIMUM SLUMP OF 8 INCHES PROVIDED BY SUFFICIENT WATER CONTENT. WATER-REDUCING ADMIXTURES ARE NOT PERMITTED.
- MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S, PCL OR MORTAR CEMENT. MASONRY CEMENT NOT PERMITTED.
- REINFORCED VOIDS, AND NON-REINFORCED VOIDS SPECIFIED TO BE GROUTED, IN CONCRETE MASONRY SHALL BE FILLED SOLID WITH GROUT IN 5 FT. MAXIMUM LIFTS. STOP POURS 1-1/2 INCHES BELOW THE BED JOINT TO FORM A KEY AT POUR JOINTS.
- LAP DEFORMED BARS 48 DIA., UNO. CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND, UNO. PILASTERS SHALL BE BONDED, UNO.
- LOAD BEARING CMU SHALL HAVE FULL MORTAR BED JOINTS. PROVIDE HORIZONTAL LADDER-TYPE WALL REINFORGEMENT, HOT-DIP GALVANIZED, WITH 3/16" DIAMETER SIDE RODS AND 9 6A. CROSS RODS AS FOLLOWS:

TYPICAL: 16 IN. c/c MAX. BELOW GRADE: 8 IN. c/c. ABOYE AND BELOW OPENINGS: TERMINATE 2 FT. BEYOND OPENING. PROVIDE CONTINUITY AT INTERSECTIONS AND CORNERS USING PREFABRICATED

- T-SHAPED AND L-SHAPED UNITS.
- 12. ALL MASONRY BELOW GRADE SHALL BE GROUTED SOLID.

### STRUCTURAL STEEL

- STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTION DESIGN SHALL CONFORM TO AISC'S "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS,
- 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS: STRUCTURAL STEEL WE SHAPES ASTM A992 ASTM A36, UNO STEEL BARS, ANGLES AND PLATES
- SQUARE AND RECTANGULAR TUBING ASTM A500, GRADE B BOLTS SHALL BE MINIMUM 3/4 IN. DIA. AND SHALL CONFORM TO THE FOLLOWING DESIGNATIONS, UNO:
- ASTM A325 HIGH STRENGTH BOLTS ASTM F1554, GRADE 36 ANCHOR BOLTS BOLTED CONNECTIONS SHALL CONFORM TO RCSC'S "SPECIFICATIONS FOR
- STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." WELDING, WELDING ELECTRODES, AND FLUXES SHALL CONFORM TO AMS D1.1-17 "STRUCTURAL WELDING CODE - STEEL". ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI.
- 6. GROUT UNDER STEEL COLUMN OR POST BASEPLATES SHALL BE NONMETALLIC SHRINKAGE-RESISTANT GROUT CONFORMING TO ASTM C827 HAVING A MINIMUN DESIGN COMPRESSIVE STRENGTH OF 5000 PSI. GROUT UNDER STEEL BEAM BEARING PLATES SHALL HAVE A MINIMUM DESIGN COMPRESSIVE STRENGTH OF 3000 PSI, AND SHALL CONFORM TO ASTM C476.
- 7. HIGH STRENGTH BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SNUG-TIGHT CONDITION, UNO.
- CONNECTIONS SHALL BE DESIGNED PER AISC TO CARRY FULL CAPACITY OF UNIFORMLY LOADED MEMBER, UNLESS THE ACTUAL REACTION IS NOTED ON
- PROVIDE FULL DEPTH CONNECTIONS AT BEAM OR GIRDER TO COLUMN CONNECTION. 10. PROVIDE MIN. 3/8" FULL DEPTH THRU-PLATE CONNECTIONS AT PIPE AND TUBE
- COLUMNS. PROVIDE COLUMN CAP PLATES AS FOLLOWS, UNO: FOR BEAM BEARING: SEE TYPICAL DETAILS, 3/4" THICK MIN. PROVIDE COLUMN CAP PLATES AT ALL SQUARE, RECTANGULAR AND ROUND HSS

### COLD FORMED STEEL FRAMING

- ALL COLD FORMED STEEL FRAMING INDICATED ON THE DRAWINGS IS FOR BID PURPOSES ONLY. THE COLD-FORMED FRAMING SUBCONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER TO DESIGN ALL COLD FORMED FRAMING IN ACCORDANCE WITH THE SPECIFIED DESIGN CRITERIA AND SIGNED AND SEALED SHOP DRAWINGS SHALL BE SUBMITTED. INDICATED COLD-FORMED FRAMING SIZES AND 6A6ES ARE MINIMUMS, AND SHALL NOT BE REDUCED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
- THE DESIGN OF COLD FORMED STEEL FRAMING SHALL CONFORM TO AISI'S \$100-16 "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" COLD FORMED STEEL FRAMING SHALL CONFORM TO ASTM C955 AND C1007, AND TO
- THE FOLLOWING 12, 14 AND 16 6A6E STUDS ASTM A653, SQ, GRADE 50, CLASS 1 ASTM A653, CQ, 6RADE 33 18 AND 20 GAGE STUDS
- TRACK AND BRIDGING ASTM A653, CQ, GRADE 33 WELDING SHALL CONFORM TO AWS D1.4-17, "STRUCTURAL WELDING CODE - SHEET
- PROVIDE BRIDGING AND BRACING AS SPECIFIED BY MANUFACTURER OR AS REQUIRED BY DESIGN.
- THE EXTENT OF WORK FOR COLD-FORMED FRAMING IS DETAILED ON THE ARCHITECTURAL DRAWINGS, AND PARTLY ON THE STRUCTURAL DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
- PROVIDE COLD-FORMED ACCESSORIES AS REQUIRED FOR A COMPLETE FRAMING SYSTEM, INCLUDING, BUT NOT LIMITED TO, TRACKS, BLOCKING, CLIP ANGLES, SLIDE CLIPS, SHOES, RUNNERS, REINFORCEMENTS, COLD-FORMED TO COLD-FORMED FASTENERS AND WELDS, AND COLD-FORMED TO STRUCTURE FASTENERS AND WELDS. LOAD BEARING STUDS SHALL HAVE CONTINUITY THROUGH THE FLOOR SYSTEM, AND
- SHALL BE VERTICALLY ALIGNED THROUGHOUT THE STRUCTURE HEIGHT. 9. LOAD BEARING STUDS SHALL NOT BE SPLICED.
- 10. TRACK SHALL BE SPLICED WITH A SECTION OF STUD AND FASTENED TO DEVELOP THE TENSILE CAPACITY OF THE TRACK. 11. BUILT-UP HEADERS SHALL HAVE WEB STIFFENERS AT BEARING POINTS.
- 12. FOR STEEL STUD FRAMING, HORIZONTAL MECHANICAL BRIDGING SHALL BE 2 IN., 18 GAGE STRAPS, EACH SIDE OF STUD, OR 1 1/2 IN., 16 GAGE BRIDGING CHANNEL. BRIDGING SHALL BE INSTALLED AT 4 FT. O/C MAX., AND FASTENED TO EACH STUD. BRIDGING SHALL BE CONTINUOUS. FLAT STRAP BRIDGING SHALL HAVE BLOCKING AT WALL ENDS AND 10 FT. O/C MAX.
- 13. DO NOT BEAR OR CONNECT COLD-FORMED MEMBERS WITHIN 12 INCHES OF PUNCHED WEB OPENINGS UNLESS MEMBERS ARE REINFORCED WITH AN 18 IN. (MIN) LONG UNPUNCHED STUD OR TRACK AT THE PUNCH OPENING, SAME GAGE AS PUNCHED MEMBER. FASTEN REINFORCING MEMBER WITH A MIN. OF 8 SCREWS.
- 14. PLACE STUDS AT UNIFORM SPACING INDICATED WITH FULL BEARING AGAINST INSIDE WEB OF RUNNERS. ALIGN WITH ALL FLANGES FACING SAME DIRECTION.
- 15. LOCATE STUDS NOT MORE THAN 2 IN. FROM ABUTTING WALLS. 16. CONSTRUCT CORNERS USING MIN. 3 STUDS. PROVIDE DOUBLE STUDS AT WALL
- OPENINGS, AND AT WINDOW AND DOOR JAMBS, UNO. VERTICAL CRACK CONTROL JOINTS IN WALLS SHALL BE PROVIDED AT 24 FT. O/C 17. INSTALL INTERMEDIATE JACK STUDS (CRIPPLES) ABOVE AND BELOW OPENINGS TO MATCH WALL STUD SPACING.
  - 18. ROOF SHEATHING SHALL BE INSTALLED ON MAIN ROOF MEMBERS PRIOR TO THE INSTALLATION OF OVERFRAMING MEMBERS.
  - 19. ALL CONNECTIONS SHALL BE SCREWED OR POWDER FASTENED, UNLESS WELDING IS A. SCREWS: #10 (UNO) HEX HEAD SELF-DRILLING SCREWS. MIN. 1/2 IN.
    - LENGTH FOR COLD-FORMED TO COLD-FORMED CONNECTIONS. MIN 1-1/2 IN. LENGTH FOR COLD-FORMED TO TIMBER CONNECTIONS. MIN SPACING AND EDGE DISTANCE SHALL BE 1/2 IN.
    - B. PONDER ACTUATED FASTENERS (PAF) IN CONCRETE: 0.145 IN (UNO) SHANK DIA. MIN. SPACING SHALL BE 4 IN. AND MIN. EDGE DISTANCE SHALL BE 3 IN. C. POWDER ACTUATED FASTENERS (PAF) IN STEEL: 0.145 IN (UNO)

KNURLED SHANK DIA. MIN. SPACING SHALL BE 1-1/2 IN. AND MIN.

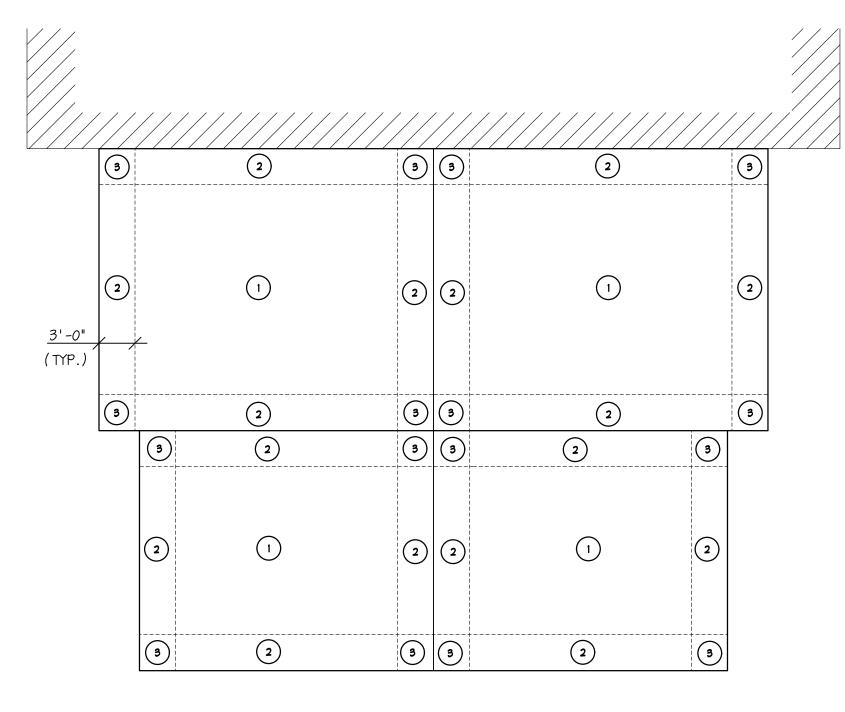
EDGE DISTANCE SHALL BE 1/2 IN. 20. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION AND PERFORMANCE OF THE ROOF TRUSSES. THE GUIDELINES SET FORTH BY THE LIGHT GAUGE STEEL ENGINEERS ASSOCIATION (LESEAO TECHNICAL NOTES 551d "DESIGN GUIDE FOR CONSTRUCTION BRACING OF COLD-FORMED STEEL TRUSSES" AN 551e "DESIGN GUIDE FOR PERMANENT BRACING OF COLD-FORMED STEEL TRUSSES" SHALL BE A MINIMUM REQUIREMENT/

### PLYWOOD SHEATHING

- 1. PLYWOOD SHALL CONFORM TO APA'S "PLYWOOD DESIGN SPECIFICATION", 2012, AND DOC'S PS 1 - 09, "CONSTRUCTION AND INDUSTRIAL PLYWOOD". ALL JOINTS SHALL BE STAGGERED. PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION ACROSS SUPPORTS. NAILING SHALL COMPLY WITH MINIMUM APA REQUIREMENTS
- FOR PLYWOOD FLOOR/ROOF DIAPHRAGMS, AND IBC FASTENING SCHEDULE PLYWOOD ROOF SHEATHING SHALL BE APA STRUCTURAL I RATED SHEATHING EXPOSURE 1, THICKNESS AS INDICATED. PROVIDE PANEL CLIPS AT UNSUPPORTED
- 3. ROOF SHEATHING SHALL BE INSTALLED ON MAIN ROOF MEMBERS PRIOR TO THE INSTALLATION OF OVERFRAMING MEMBERS.
- 4. MINIMUM FASTENING SHALL CONFORM TO IBC TABLE 2304.9.1, "FASTENING SCHEDULE".

COMPONENTS & CLADDING ZONES PER ASCE 7-16						
EFFECTIVE	ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	
WIND AREA	INT. ROOF	EDGE ROOF	CORNER ROOF	INT. WALL	EXT. WALL	
<20 SF	+16.0	+16.0	+16.0	+18.6	+18.6	
120 31	-23.5	-27.4	-46.5	-20.3	-24.4	
50 SF	+16.0	+16.0	+16.0	+17.5	+17.5	
<i>30 3</i> 1	-22.2	-24.8	-40.5	-19.1	-22.2	
1 <i>00</i> SF	+16.0	+16.0	+16.0	+16.6	+16.6	
100 51	-21.2	-22.8	-36.1	-18.2	-20.3	
>200 SF	+16.0	+16.0	+16.0	+16.0	+16.0	
7200 31	-21.2	-22.8	-36.1	-17.4	-18.5	

PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY. INDICATED PRESSURES ARE ULTIMATE LOADS.



ROOF PLAN - WIND PRESSURES

STRUCTURAL ENGINEERS BAKER, INGRAM & ASSOCIATES NJ Cert of Authorization No. #24GA28010400 2 White Horse Pike Haddon Heights, NJ 08035

**S1.**1

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ENGINEERS • ARCHITECTS • PLANNER

STEVEN M. BACH, PE, RA, PP, CMI NJ PROFESSIONAL ENGINEER No. GE 41507 NJ REGISTERED ARCHITECT No. AI 14872 NJ PROFESSIONAL PLANNER No. LI 05557

ALL DIMENSIONS MUST BE VERIFIED B' CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

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DESCRIPTION DATE **STRUCTURAL** 

NOTES

DESIGNED BY: H15868-24 GAS, BDM DRAWN BY: 08/19/25 DMM. NLM SCALE: CHECKED BY: AS NOTED AWING NUMBER:

ΑI	<u>PUCTURAL STEEL CONSTRUCTION</u> (IBC-18 SECTION 1705.2, ISC 360-16 CHAPTER N, AISC 341-16 CHAPTER J	FREQUENCY	REFERENCED STANDARD
INSP	ECTION TASKS PRIOR TO WELDING (AISC 360-16 TABLE N5.4-2)	PERIODIC	ACI 318:3.5,7.1-7.7
1.	WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE	PERIODIC	6.3
2.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	PERIODIC	6.2
3.	MATERIAL IDENTIFICATION (TYPE/GRADE)	PERIODIC	6.2
4.	WELDER IDENTIFICATION SYSTEM	PERIODIC	6.4
5.	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	PERIODIC	
	a. JOINT PREPARATION	PERIODIC	6.5.2
	b. DIMENSIONS (ALIGNMENT, ROOF OPENING, ROOT FACE, BEVEL)	PERIODIC	5.22
	c. CLEANLINESS (CONDITION OF THE STEEL SURFACES)	PERIODIC	5.15
	d. TACKING (TACK WELD QUALITY AND LOCATION)	PERIODIC	5.18
	e. BACKING TYPE AND FIT (IF APPLICABLE)	PERIODIC	5.10, 5.22, 1.1
6.	CONFIGURATION OF FINISH AND ACCESS HOLES	PERIODIC	6.5.2, 5.17
7.	FIT-UP OF FILLET WELDS	PERIODIC	
	a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	PERIODIC	5.22.1
	b. CLEANLINESS (CONDITION OF STEEL SURFACES)	PERIODIC	5.15
,	c. TACKING (TACK WELD QUALITY AND LOCATION)	PERIODIC	5.18
8.	CHECK WELDING EQUIPMENT	PERIODIC	6.2, 5.11
			,
ו אוכם	ECTION TASKS DURING WELDING (AISC 360-16 TABLE N5.4-2)	PERIODIC	AWS D1.1/D1.1M
			<u> </u>
1.	USE OF QUALIFIED WELDERS	PERIODIC	6.4
2.	CONTROL AND HANDLING OF WELDING CONSUMABLES	PERIODIC	6.2
	a. PACKAGING	PERIODIC PERIODIC	5.3.1
	b. EXPOSURE CONTROL	PERIODIC	5.3.2 (SMAW) 5.3.3 (SAW)
3.	NO WELDING OVER CRACKED TACK WELDS	PERIODIC	5.18
4.	ENVIRONMENTAL CONDITIONS	PERIODIC	
	a. WIND SPEED WITHIN LIMITS	PERIODIC	5.12.1
	b. PRECIPITATION AND TEMPERATURE	PERIODIC	5.12.2
<u> </u>	WPS FOLLOWED	PERIODIC	6.3.3, 6.5.2, 5.5,
	a. SETTINGS ON WELDING EQUIPMENT	PERIODIC	5.2.1
	b. TRAVEL SPEED	PERIODIC	
	c. SELECTED WELDING MATERIALS	PERIODIC	
	d. SHIELDING GAS TYPE/FLOW RATE	PERIODIC	
	e. PREHEAT APPLIED	PERIODIC	
	f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	PERIODIC	
	g. PROPER POSITION (F,V,H,OH)	PERIODIC	
	h. INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED (REF: AISC 341-10)	PERIODIC	
6.	WELDING TECHNIQUES	PERIODIC	6.5.2, 6.5.3, 5.24
	a. INTERPASS AND FINAL CLEANING	PERIODIC	5.30.1
	b. EACH PASS WITHIN PROFILE LIMITATIONS	PERIODIC	3.30.1
	c. EACH PASS MEETS QUALITY REQUIREMENTS	PERIODIC	
1 NSP	ECTION TASKS AFTER WELDING (AISC 360-16 TABLE N5.4-3)		AWS D1.1/S1.1M
-	WELDS CLEANED	PERIODIC	5.30.1
1.		CONTINUOUS	6.5.1
2.	SIZE, LENGTH, AND LOCATIONS OF WELDS	00111110003	
	SIZE, LENGTH, AND LOCATIONS OF WELDS  WELDS MEET VISUAL ACCEPTANCE CRITERIA	CONTINUOUS	6.5.3
2.		+	6.5.3 TABLE 6.1 (1)
2.	WELDS MEET VISUAL ACCEPTANCE CRITERIA	CONTINUOUS	
2.	WELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION	CONTINUOUS	TABLE 6.1 (1)
2.	WELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. WELD/BASE METAL-FUSION	CONTINUOUS  CONTINUOUS  CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)
2.	MELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. MELD/BASE METAL-FUSION  c. CRATER CROSS SECTION	CONTINUOUS  CONTINUOUS  CONTINUOUS  CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)  TABLE 6.1 (4), 5.24
2.	MELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. MELD/BASE METAL-FUSION  c. CRATER CROSS SECTION  d. MELD PROFILES  e. MELD SIZE	CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)  TABLE 6.1 (4), 5.24  TABLE 6.1 (6)
2.	WELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. WELD/BASE METAL-FUSION  c. CRATER CROSS SECTION  d. WELD PROFILES  e. WELD SIZE  f. UNDERCUT	CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)  TABLE 6.1 (4), 5.24  TABLE 6.1 (6)  TABLE 6.1 (7)
2.	WELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. WELD/BASE METAL-FUSION  c. CRATER CROSS SECTION  d. WELD PROFILES  e. WELD SIZE  f. UNDERCUT  g. POROSITY	CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)  TABLE 6.1 (4), 5.24  TABLE 6.1 (6)  TABLE 6.1 (7)  TABLE 6.1 (8)
<ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	WELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. WELD/BASE METAL-FUSION  c. CRATER CROSS SECTION  d. WELD PROFILES  e. WELD SIZE  f. UNDERCUT  g. POROSITY  ARC STRIKES	CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)  TABLE 6.1 (4), 5.24  TABLE 6.1 (6)  TABLE 6.1 (7)  TABLE 6.1 (8)  5.29
2.	WELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. WELD/BASE METAL-FUSION  c. CRATER CROSS SECTION  d. WELD PROFILES  e. WELD SIZE  f. UNDERCUT  g. POROSITY	CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)  TABLE 6.1 (4), 5.24  TABLE 6.1 (6)  TABLE 6.1 (7)  TABLE 6.1 (8)
<ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	WELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. WELD/BASE METAL-FUSION  c. CRATER CROSS SECTION  d. WELD PROFILES  e. WELD SIZE  f. UNDERCUT  g. POROSITY  ARC STRIKES	CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)  TABLE 6.1 (4), 5.24  TABLE 6.1 (6)  TABLE 6.1 (7)  TABLE 6.1 (8)  5.29
<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	WELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. WELD/BASE METAL-FUSION  c. CRATER CROSS SECTION  d. WELD PROFILES  e. WELD SIZE  f. UNDERCUT  g. POROSITY  ARC STRIKES  K-AREA	CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)  TABLE 6.1 (4), 5.24  TABLE 6.1 (6)  TABLE 6.1 (7)  TABLE 6.1 (8)  5.29  NOT ADDRESSED IN AM
<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>6.</li> </ol>	WELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. WELD/BASE METAL-FUSION  c. CRATER CROSS SECTION  d. WELD PROFILES  e. WELD SIZE  f. UNDERCUT  g. POROSITY  ARC STRIKES  K-AREA  BACKING REMOVED AND WELD TABS REMOVED ( IF REQUIRED)	CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)  TABLE 6.1 (4), 5.24  TABLE 6.1 (6)  TABLE 6.1 (7)  TABLE 6.1 (8)  5.29  NOT ADDRESSED IN AM  5.10, 5.31
<ol> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> </ol>	WELDS MEET VISUAL ACCEPTANCE CRITERIA  a. CRACK PROHIBITION  b. WELD/BASE METAL-FUSION  c. CRATER CROSS SECTION  d. WELD PROFILES  e. WELD SIZE  f. UNDERCUT  g. POROSITY  ARC STRIKES  K-AREA  BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)  REPAIR ACTIVITIES	CONTINUOUS	TABLE 6.1 (1)  TABLE 6.1 (2)  TABLE 6.1 (3)  TABLE 6.1 (4), 5.24  TABLE 6.1 (6)  TABLE 6.1 (7)  TABLE 6.1 (8)  5.29  NOT ADDRESSED IN AW  5.10, 5.31  6.5.3, 5.26

	<u>SOILS:</u> (1.705.6)	FREQUENCY	REFERENCED STANDARD
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	GEOTECHNICAL ENGINEERING REPORT
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	GEOTECHNICAL ENGINEERING REPORT
3.	PERFORM CLASSIFICATIONS AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	GEOTECHNICAL ENGINEERING REPORT
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	GEOTECHNICAL ENGINEERING REPORT
5.	PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	GEOTECHNICAL ENGINEERING REPORT

INSPECTION TASKS PRIOR TO BOLTING (AISC 360-1	6 TABLE N5.6	-1)
INSPECTION TASKS PRIOR TO BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
FASTENERS ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	OBSERVE	PERFORM
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	OBSERVE	0BSERVE
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	0BSERVE	0BSERVE
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH ROSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	OBSERVE	0BSERVE

INSPECTION TASKS DURING BOLTING (AISC 360-1	6 TABLE N5.6	-2)
INSPECTION TASKS PRIOR TO BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	OBSERVE	PERFORM
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	OBSERVE	OBSERVE
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	OBSERVE	0BSERVE
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	OBSERVE	0BSERVE
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	0BSERVE	0BSERVE
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	PERFORM	0BSERVE
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.	OBSERVE	OBSERVE

INSPECTION TASKS AFTER BOLTING (AISC 360-16 TAI	BLE N5.6-3)	
INSPECTION TASKS AFTER BOLTING	QUALITY CONTROL	QUALITY ASSURANCE
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	0BSERVE	PERFORM

OTHER INSPECTION TASKS (AISC 360-16 TAE	3LE N5.7)
	FREQUENCY
1. VERIFY COMPLIANCE OF FABRICATED STEEL WITH THE DETAILS SHOWN ON THE APPROVED SHOP DRAWINGS.	PERIODIC
<ol> <li>VERIFY COMPLIANCE OF THE ERECTED STEEL FRAME WITH THE DETAILS SHOWN ON THE APPROVED ERECTION DRAWINGS, INCLUDING BRACES, STIFFENERS, AND MEMBER LOCATIONS AND DETAILS.</li> </ol>	PERIODIC
3. ANCHOR RODS AND OTHER EMBEDMENTS SUPPORT STRUCTURAL STEEL.	PERIODIC
a. VERIFY THE DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM.	PERIODIC
b. VERIFY THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE.	PERIODIC

	CONCRETE: (1.705.3)  NOT APPLICABLE TO ISOLATED SPREAD FOOTINGS OR NON-STRUCTURAL SLABS ON GROUND	FREQUENCY	REFERENCED STANDARD
1.	INSPECTION OF REINFORCING STEEL AND PLACEMENT	PERIODIC	ACI 318:3.5,7.1-7.7
2.	INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 26.	PERIODIC	AMS D1.4 ACI 318: 3.5.2
3.	INSPECTION OF ANCHORS CAST IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	PERIODIC	ACI 318: 8.1.3, 21.2.8
4.	INSPECTION OF ANCHORS POST INSTALLED IN HARDENED CONCRETE MEMBERS.	CONTINUOUS	ACI 318: 3.8.6, 8.1.3 21.2.8
5.	VERIFYING USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: 3.8.6, 8.1.3 Ch.4, 5.2-5.4
6.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	CONTINUOUS	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8
٦.	INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: Ch. 5.9, 5.10
8.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING, TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 5.11-5.13
٩.	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 6.1.1



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# 1 OF RUNNEMEDE LLIAMS BUILDING 7 AND BATHROOMS

2 BROADWAY RUNNEMEDE, NEW JERSEY 08078 CAMDEN COUNTY, NEW JERSEY BOROUGH CHARRY WILL

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DESCRIPTION

SPECIAL INSPECTIONS

SCALE: AS NOTED DRAWING NUMBER:

H15868-24

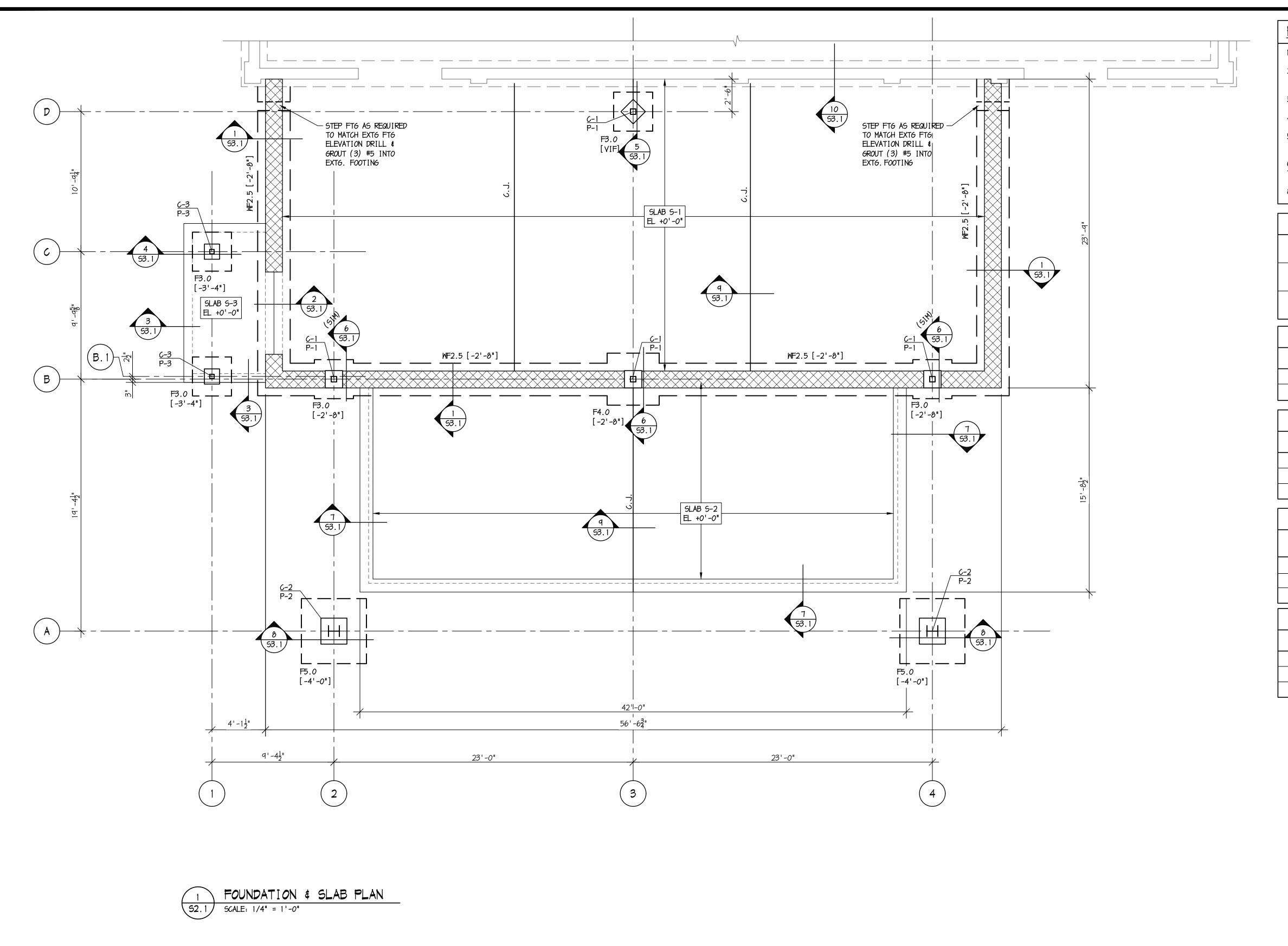
**S1.2** 

GAS, BDM

DMM, NLM

CHECKED BY:

BAKER, INGRAM & ASSOCIATES 2 White Horse Pike 856.310.1491 Haddon Heights, NJ 08035 www.bakeringram.com NJ Cert of Authorization No. #24GA28010400



### FOUNDATION PLAN NOTES

1. FIRST FLOOR ELEVATION + 0'-0" IS REFERENCED RELATIVE TO EXISTING FLOOR ELEVATION.

2. ELEVATIONS ARE NOTED FROM REF EL 0'-0 AS FOLLOWS:

( -# ' -#) INDICATES TOP OF CONCRETE SLAB [-#'-#"] INDICATES TOP OF FOOTING

3. FOUNDATION MEMBERS SHALL BE AT THE FOLLOWING ELEVATIONS, UNO: FOOTINGS T/F00TING [-2'-8"]

4. FOUNDATION MEMBERS ARE DESIGNATED AS FOLLOWS:

FOOTING MARK - SEE SCHEDULE. 5. COORDINATE WITH ARCH, MECH, ELEC, AND PLMB DRAWINGS FOR FLOOR SLOPES, DRAINS, OPENINGS, DEPRESSIONS, ETC., NOT SHOWN ON THIS

REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED. PROVIDE (2) #4 x 4'-0" DIAGONAL BARS AT ALL RE-ENTRANT

SLAB-ON-GRADE CORNERS. 8. REFER TO STRUCTURAL NOTES ON DRAWING S1.1.

### SLAB SCHEDULE

SLAB S-1: 4" CONC. SLAB ON GRADE W/ 6x6-W2.1xW2.1 WWF ON 6 mil VAPOR BARRIER ON 4" COMPACTED GRANULAR BASE

SLAB S-2: 5" CONC. SLAB ON GRADE W/ 6X6 - W2.1xW2.1 WWF ON 6 mil VAPOR BARRIER ON 4" COMPACTED GRANULAR BASE

SLAB S-3: 4" CONC. SLAB ON GRADE W/ 6x6-W1.4xW1.4 WFF ON 8" COMPACTED GRANULAR BASE

MALL FOOTING SCHEDULE					
MARK	SIZE	REINFO CONTINUOUS			
WF2.5	2'-6" x 1'-0"	3-#5	#5 <b>@</b> 48"		

COLUMN FOOTING SCHEDULE			
MARK	SI ZE	REINFORCING (BOTTOM)	
F3.0	3'-0" × 3'-0" × 1'-0"	3-#5 EW	
F4.0	4'-0" × 4'-0" × 1'-0"	4-#5 EN	
F5.0	5'-0" × 5'-0" × 1'-0"	5-#5 EM	

CONCRETE PIER SCHEDULE				
MARK SIZE REINFORCING				
MAIN SIZE		VERTICAL	TIES	
P-1	16"×16"	4-#6	#3T @ 12"	
P-2	24"×24"	8-#6	#3T @ 12"	
P-3	14"×14"	4-#5	#3T @ 10"	

COLUMN SCHEDULE					
MARK SECTION BASE PLATE ANCHOR RODS					
C-1	HSS 5x5x1/4"	11"x11"x3/4"	4 - 3/4"φ		
C-2	W10×49	16"×16"×1"	4 - 3/4"φ		
C-3	HSS 4×4×1/4"	10"×10"×5/8"	4 - 5/8"Φ		



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NO.	DESCRIPTION	DATE
DRAWING	; TITLE:	

**FOUNDATION PLAN** 

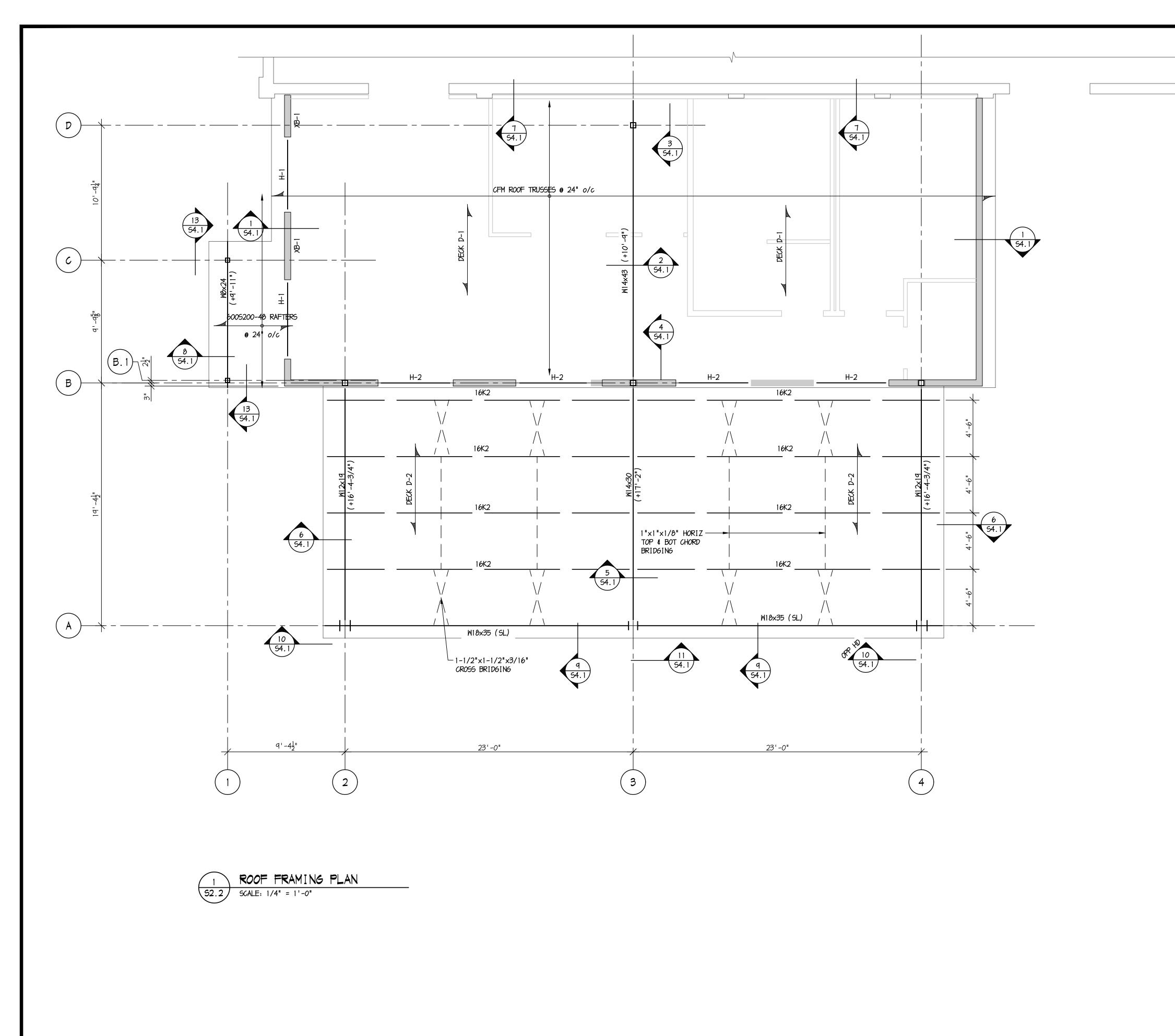
DESIGNED BY:

GAS, BDM DRAWN BY:



DMM, NLM SCALE: AS NOTED CHECKED BY: **S2.1** 

H15868-24



### ROOF FRAMING NOTES

 T/STEEL & T/PLATE ELEVATIONS NOTED THUS "+\_'-\_\_" ARE REFERENCED RELATIVE TO EXISTING FIRST FLOOR ELEVATION +0'-0". 2. "H-?" INDICATES CFM BOX HEADER - SEE SCHEDULE.

3. "XB-1" INDICATES BRACED CFM WALL - SEE DETAIL ON S4.1.
4. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT INDICATED.

5. REFER TO STRUCTURAL NOTES DRAWING \$1.1. 6. REFER TO SECTIONS & DETAILS ON DRAWINGS S4.1.

	COLD-FORMED METAL HEADER SCHEDULE				
MARK	HEADER	POST/JAMB	TEK SCREW CONNX.	SECTION	
H-1	(2)600T125-68 + (2)8005200-68	(2)6005200-68	SHH 6/54 PATTERN 02		
H-2	(2)600T125-43 + (2)6005162-43	6005162-43	SHH 6/54 PATTERN 02		

DECK SCHEDULE		
MARK	TYPE	
D-1	5/8" PLYWOOD ROOF SHEATHING w/ CLIPS	
D-2	1"-22 GA GALYANIZED FORM DECK (UF1X) w/ 5/8" PLYWOOD ROOF SHEATHING	

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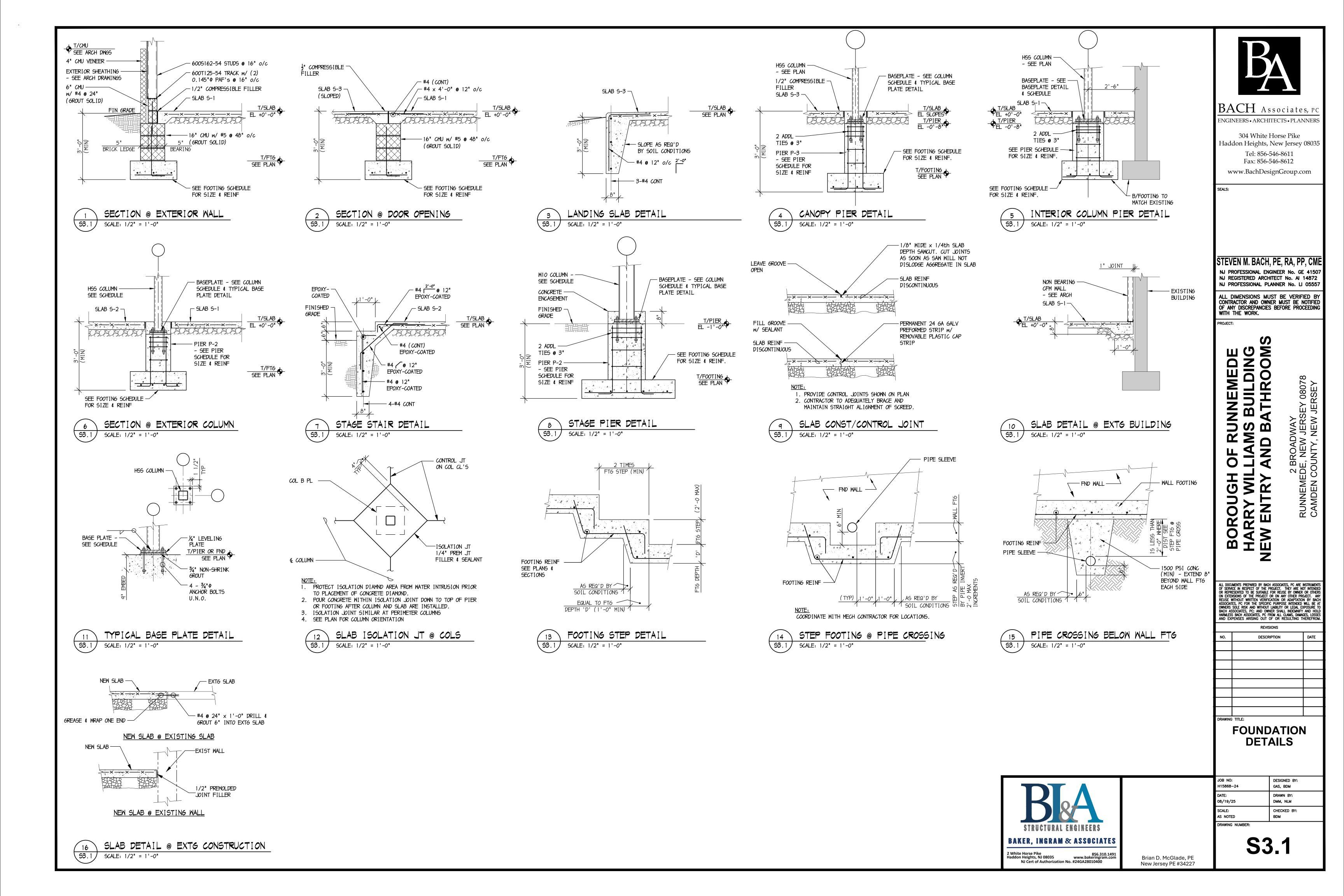
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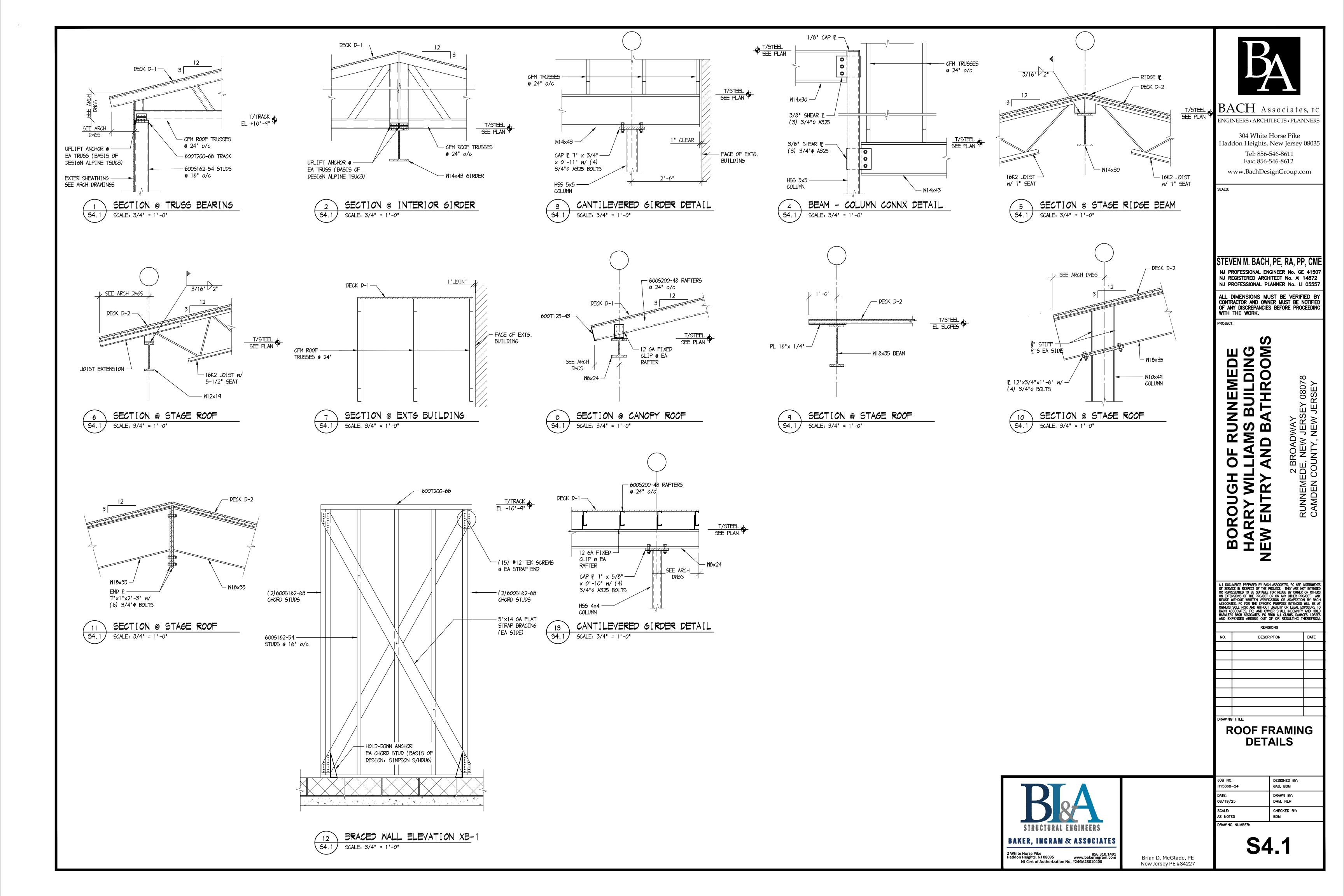
**ROOF FRAMING PLAN** 

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DESIGNED BY: H15868-24 GAS, BDM DRAWN BY: 08/19/25 DMM, NLM SCALE: AS NOTED CHECKED BY:

**S2.2** 





### ELECTRICAL SYMBOLS SCHEDULE

HIS IS A COMPLETE LIST OF ELECTRICAL	POWER DISTRIB.	COMMUNICATIONS	ELECTRICAL DEVICES	ELECTRICAL ABBREVIATIONS
YMBOLS FOR REFERENCE ONLY. YMBOLS SHOWN HERE MAY OR MAY NOT	SURFACE MTD PANELBOARD	► TELEPHONE OUTLET	\$ \$2 \$3 \$4 SINGLE-POLE DOUBLE-POLE 3-WAY AND 4-WAY SWITCHES	THIS LIST OF ABBREVIATIONS IS PROVIDED FOR CONVENIENCE ONLY. ITEMS LISTED HERE MAY OR MAY NOT BE USED ON THIS PROJECT.
E USED ON THIS PROJECT.	FLUSH MTD PANELBOARD	<b>⊲</b> w WALL MTD TELE OUTLET	\$ WP SINGLE POLE SWITCH - WEATHERPROOF	MAY NOT BE USED ON THIS PROJECT.
GENERAL SYMBOLS	077 /400V DANEL	DATA OUTLET	\$1\$0 DUAL LEVEL SWITCHING INSIDE/OUTSIDE LAMP CONTROL	1/C SINGLE CONDUCTOR INCL INCLUDE INSTANTANEOUS
6 KEY NOTE INDICATOR	277/480V PANEL	COMBINATION TELE/DATA OUTLET	\$ KEY-LOCK SWITCH	A/C AIR CONDITIONER INSUL INSULATION A AMPS JB JUNCTION BOX ABV ABOVE JC JANITOR'S CLOSET
EQUIPMENT INDICATOR	120/208V PANEL	,	\$ LIGHTED—HANDLE SWITCH	AC ALTERNATING CURRENT JT JOINT AFF ABOVE FINISHED FLOOR KVA KILOVOLT AMPERE
	MOTOR CONNECTION	COMBINATION TELE/DATA OUTLET AT MOVABLE PARTITION  TELE/DATA OUTLET	\$ <sub>CO</sub> CENTER-OFF DOUBLE-POLE SWITCH	AHU AIR HANDLING UNIT
SCHEDULED ITEM INDICATOR	DISCONNECT SWITCH	TELE/DATA OUTLET FILUSH FLOOR MOUNTED		ATS AUTOMATIC TRANSFER SWITCH LTG LIGHTING ALT ALTERNATE LV LOW VOLTAGE AVTO AUTOMATIC LVR LOUVER
DRAWING REVISION INDICATOR	MAGNETIC STARTER	COMBINATION POWER & TELE/DATA OUTLET  FLUSH FLOOR MOUNTED	\$ <sub>EXP</sub> EXPLOSION—PROOF SWITCH	AVG AVERAGE
NDUIT AND WIRING	COMBINATION STARTER/DISCONNECT	TELE/DATA CONDUIT STUB-UP	$\$_{\! extsf{D}}$ LOCAL WALL DIMMER SWITCH .	BKR BREAKER MC MECHANICAL CONTR BLDG BUILDING MCB MAIN CIRCUIT BREA BLW BELOW MCC MOTOR CONTROL CE
	POWER COMPANY METER		\$ <sub>LV</sub> LOW-VOLTAGE SWITCH	BTM BOTTOM MECH MECHANICAL MFR MANUFACTURER MH MANHOLE
BRANCH CIRCUIT RUN CONCEALED	CT C. T. CABINET	FIDE ALADM CVCTEM	MANUAL TOGGLE SWITCH WITH THERMAL OVERLOAD	CT CURRENT TRANSFORMER MISC MISCELLANEOUS CAP CAPACITY MI O MAIN LUGS ONLY
BRANCH CIRCUIT RUN UNDER FLOOR	JUNCTION BOX — CEILING MOUNTED	FIRE ALARM SYSTEM	E EMERGENCY POWER-OFF SWITCH	CFM CUBIC FEET/MINUTE MTD MOUNTED CIRC CIRCULATING MTG MOUNTING CKT CIRCUIT
BRANCH CIRCUIT UP OR DOWN	JUNCTION BOX — FLOOR MOUNTED	MANUAL PULL STATION	TIMECLOCK	CLG CEILING CONC CONCRETE NIC NOT IN CONTRACT CONN CONNECTION NO NUMBER CONST CONSTRUCTION NTS NOT TO SCALE
2A-1,3,5 HOME RUN TO PANEL 2A CKTS 1, 3, & 5	POWER SYSTEMS	HORN AND FLASHING LIGHT	PC PHOTOCELL	CONT CONTINUOUS
-EM EMERGENCY ONLY BRANCH CIRCUIT		CHIME AND FLASHING LIGHT	RELAY W/ NUMBER AND TYPE OF POLES AS INDICATED	CONTR CONTRACTOR OC ON CENTER CPU CENTRAL PROCESSING UNIT OH OVERHEAD CU COPPER OPING OPENING
-NL NIGHT LIGHT BRANCH CIRCUIT	TRANSFORMER	☑○ FIRE ALARM BELL	Φ SINGLE RECEPTACLE	DED DEDICATED PC PLUMBING CONTRA DET DETAIL PEND PENDANT
-LVLOW VOLTAGE CIRCUIT	AUTOMATIC TRANSFER SWITCH	FLASHING LIGHT	DUPLEX RECEPTACLE	DIAM DIAMETER PLBG PLUMBING DIM DIMENSION PNI PANEL
SMR — SURFACE METAL RACEWAY SIZED FOR NO. OF CONDUCTORS TO BE INSTALLED	EM GEN EMERGENCY GENERATOR	FIRE ALARM SPEAKER — CEILING MTD	DOUBLE DUPLEX RECEPTACLE	DISC DISCONNECT PRESS SW PRESSURE SWTCH DIV DIVISION PS PULL SWITCH DN DOWN PT POTENTIAL TRANS DPR DAMPER
OND OF CONDUCTORS TO BE INSTALLED  CT — CABLE TRAY	POWER DISTRIBUTION UNIT	FIRE ALARM SPEAKER - WALL MTD	"	DIMO DO AMINO
1	UPS UNINTERRUPTABLE POWER SOURCE	COMBINATION SPEAKER/FLASHING LIGHT	DUPLEX SPLIT WIRED WITH BOTTOM OUTLET ON WALL SWITCH	BRAWING  REC RECESSED  REC'S RECEPTACLES  EA EACH RECEPT RECEPTACLE  EC ELECTRICAL CONTRACTOR REQD REQUIRED  ELEC ELECTRICAL RM ROOM
INDICATES CONNECTION TO EXISTING	TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR	ID IONIZATION TYPE SMOKE DETECTOR	SAFETY TYPE DUPLEX RECEPTACLE	ELEV ELEVATOR EM EMERGENCY ONLY EN SECT SECTION
PM — PLUGMOLD — SEE PLAN FOR LENGTH	ATC AUTOMATIC TEMPERATURE CONTROL	PD PHOTOELECTRIC TYPE SMOKE DETECTOR	ISOLATED GROUND TYPE DUPLEX RECEPTACLE	EM GEN EMERGENCY GENERATOR SIM SIMILAR ENCL ENCLOSURE SQ FT SQUARE FEET EQUIP EQUIOMENT SQ FT SQUARE FEET EWC ELECTRIC WATER COOLER STD STANDARD
			ISOLATED GROUND TYPE WITH SURGE SUPRESSION	EWC ELECTIC WATER COOLER STL STEEL EXH EXHAUST STOR STORAGE
ID SYSTEM	GROUNDING AND LIGHTNING PROTECTION	THERMAL TYPE DETECTOR	DUPLEX FOR ELECTRIC WATER COOLER COORDINATE LOCATION WITH SUPPLIER	SLISP CLC SLISPENDED CELLI
	GROUND CONDUCTOR RUN CONCEALED	ID IONIZATION TYPE MTD TO DUCT	GFI DUPLEX RECEPTACLE	FACP FIRE ALARM CONTROL PANEL
SPEAKER — CEILING MTD FLUSH	C	ID <sub>P</sub> IONIZATION TYPE MTD IN PLENUM	P wp RECEPTACLE WITH WEATHERPROOF COVER	FIN FINISH TOTAL TURDINGSTAL
SPEAKER - CEILING MTD SURFACE	GROUND CONDUCTOR ROW UNDER 1 EOOR	TD <sub>D</sub> THERMAL TYPE MTD TO DUCT	⊖ EXP	FIXT FIXTURE I—STAT THERMOSTATI FLR FLOOR TV TELEVISON FLUOR FLUORESCENT TYP TYPICAL
	—G—□ THERMITE WELD TO BLDG OR EQUIP	REMOTE TEST SWITCH	⇒ FF FLUSH-FLOOR MTD RECEPTACLE	FU FUSE  UG UNDERGROUND  GA GAUGE UH UNIT HEATER  GC GENERAL CONTRACTOR UV UNIT VENTILATOR
	—G——G— THERMITE WELD OF GROUND CONDUCTORS	PD R PHOTOELECTRIC TYPE W/ RELAY	⇒ FP PEDESTAL−FLOOR MTD RECEPTACLE	GFI GROUND FAULT INTERRUPTER
TOMATIC DOOR	—————————————————————————————————————	FS FLOW SWITCH	⇒ cp PEDESTAL—COUNTER MTD RECEPTACLE	VERT VERTICAL HORIZ HORIZONTAI VOL VOLUME
MOTION DETECTOR	GONNECTION TO AIR TERMINAL FOR LIGHTNING PROTECTION	TS TAMPER SWITCH	⇔ cL CEILING MTD RECEPTACLE	HP HORSEPOWER HT HEIGHT W/ WITH
MOTION DETECTOR H—HEAD MTD C—CEILING MTD	—G⊕ THERMITE WELD TO GROUND ROD	PRESSURE SWITCH FOR DRY TYPE SYSTEM	Фс CLOCK RECEPTACLE	HV HIGH VOLTAGE WT WEIGHT HWH HOT WATER
PUSH PLATE	—g—≪Ç GROUND ROD TRIODE	REMOTE TROUBLE BELL	"	HZ HERTZ XFMR TRANSFORMER
> KEY SWITCH	LIGHTING	SH ELECTROMAGNETIC SHUTTER HOLDER	SPECIAL PURPOSE RECEPTACLE — SIZE & TYPE AS INDICATED OR SCHEDULED	
POWER RESET	A	DH ELECTROMAGNETIC DOOR HOLDER	D DROP CORD	
DOOR MOUNTED SAFETY INTERLOCK	FIXTURE DESIG.—'A' FIXTURE TYPE 2A—2 'a' SWITCH NO. '2A—2' PANEL 2A CKT no.2	FIRE ALARM SYSTEM ACTIVATED DOOR	O <sub>PF</sub> POWER FEED AT MOVABLE PARTITION	MOUNTING HEIGHTS ELEVATION
ELECTRIC STRIKE	2X4 FIXTURE	FT FIREMANS TELEPHONE JACK	INDICATES OUTLET TO BE MOUNTED 8" ABOVE COUNTER HEIGHT. TYPICAL UNLESS NOTED OTHERWISE	6" ABOVE FIRE
PUSH BUTTON	2X2 FIXTURE	CZ CONTROL ZAM		6" ABOVE FIRE RED SIGNAL LIGHT  10'-0" BATTERY LIGHTING UNITS & REMOTE WALL MOUNTED LIGHT HEA
	1X4 FIXTURE	MZ MONITOR ZAM	OCCUPANCY SENSOR  OCCUPANCY SENSOR—CEILING MOUNTED	(OR 1'-0" BELOW FINISHED CEILING TO TOP OF UNIT)
CURITY SYSTEM	FLUORESCENT STRIPLIGHT	FACP FIRE ALARM CONTROL PANEL	C C CCCO ANCT SENSON—CEILING MODIVIED	8'-6" PENDANT HUNG & INDUSTRIAL STRIP FIXTURES  CENTERED ARV WINDOW WARNING & SIGNALING FIXTURES
OADD AGGECTATION	PENDANT TUBE FIXTURE	FACC FIRE ALARM COMMAND CENTER	·	CENTERED ABV. WINDOW WARNING & SIGNALING FIXTURES.  OR DOOR OPENING  OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, FIRE
CARD ACCESS STATION  DOOR ALARM SWITCH W/ ELEC HINGE	O RECESSED DOWNLIGHT		TELEVISION / VIDEO SYSTEM	ALARM SIGNAL DEVICES & ILLUMINATED FIRE SIGNALS.
	WALL WASHER	FAA FIRE ALARM ANNUNCIATOR	TELEVISION OUTLET	6'-6"  10P OF FLUSH & SURFACE MOUNTED ELECTRICAL LIGHTING OR POWER PANELBOARDS & TELEPHONE CABINETS.  6'-3"  TOP OF BACK-MOUNTED WALL EXIT FIXTURES. (NOT MOUNTED
SECURITY CHIME	WALL WASHEN  WALL MTD FIXTURE	FIRE ALARM PUNCH TAPE RECORDER	©OD TELEVISION OUTLET W/ RECEPTACLE	ABV. DOORS)
REY BY-PASS SW. FOR DOOR POSITION SW.  SECURITY SYSTEM MOTION DETECTOR		FDGP FIRE ALARM DATA GATHERING PANEL	©D TV CAMERA OUTLET W/ RECEPTACLE	6'-0' TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, M STARTERS, & CONTACTORS.
SECURITY SYSTEM MOTION DETECTOR		FIRE SUPPRESSION CONTROL PANEL	Color of the state	4'-6" WALL MOUNTED INTERCOM, NURSE CALL STATIONS, CLOCK CON PANEL, WALL MOUNTED TELEPHONE & PAY STATIONS. (3'-6" A
SECURITY TV CAMERA		→ FIRE, SMOKE OR FIRE/SMOKE DAMPER		HANDICAP LOCATIONS—VERIFY EXACT HEIGHT PRIOR TO ROUGH
SECURITY SYSTEM CONSOLE	WALL MTD EXIT SIGN W/ ARROWS AS INDICATED			4'-0" WALL MOUNTED WIREMOLD, LIGHTING SWITCHES, MANUAL MOTOR STARTERS, THERMOSTATS, FIRE ALARM PULL S & G.F.I. RECEPTACLES IN TOILET ROOMS OR FOR SEPARATE SI
□ ELECTROMAGNETIC LOCK	LIGHTING TRACK — LENGTH OF TRACK AND NO. OF FIXTURES AS INDICATED ON PLAN.			NOT IN CASEWORK.  3'-6" — MANUAL FIRE ALARMS
REMOTE RELEASE	NL INDICATES NIGHT LIGHT			2'_0" ELECTRICAL RECEPTACLES WITHIN MECHANICAL SPACES,
ELECTRIC HINGE	EMERGENCY BATTERY PACK W/ NUMBER OF HEADS AS INDICATED.			ELECTRICAL & ELEVATOR ROOMS.  18" — ELECTRICAL RECEPTACLES, TELEPHONE OUTLETS
ELECTRIC STRIKE				COMPUTER OUTLETS, INTERCOM OUTLETS FOR DESKS
KEY SWITCH	EMERGENCY BATTERY PACK			0'-0" FINISHED FLOOR
	2 BULB 48" SURFACE MOUNTED			MOUNTING HEIGHT NOTES:  MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION, HEIGHTS SHALL
	' FLUORESCENT LIGHT FIXTURE			BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.  THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS
				OR SPECIFICATIONS.  A $\leftarrow$ BESIDE A DEVICE INDICATES THAT A DEVICE IS MOUNTED ABOVE
				A COUNTER OR CASEWORK. COORDINATE WITH ARCHITECTURAL DWGS.

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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

EMEDE JILDING

ADDITION

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REVISIONS

NO. DESCRIPTION DATE

DRAWING TITLE:

ELECTRICAL COVER SHEET

JOB NO:

RB2024-5

DATE:

B-19-2025

SCALE:

AS SHOWN

DESIGNED BY:

REH

DRAWN BY:

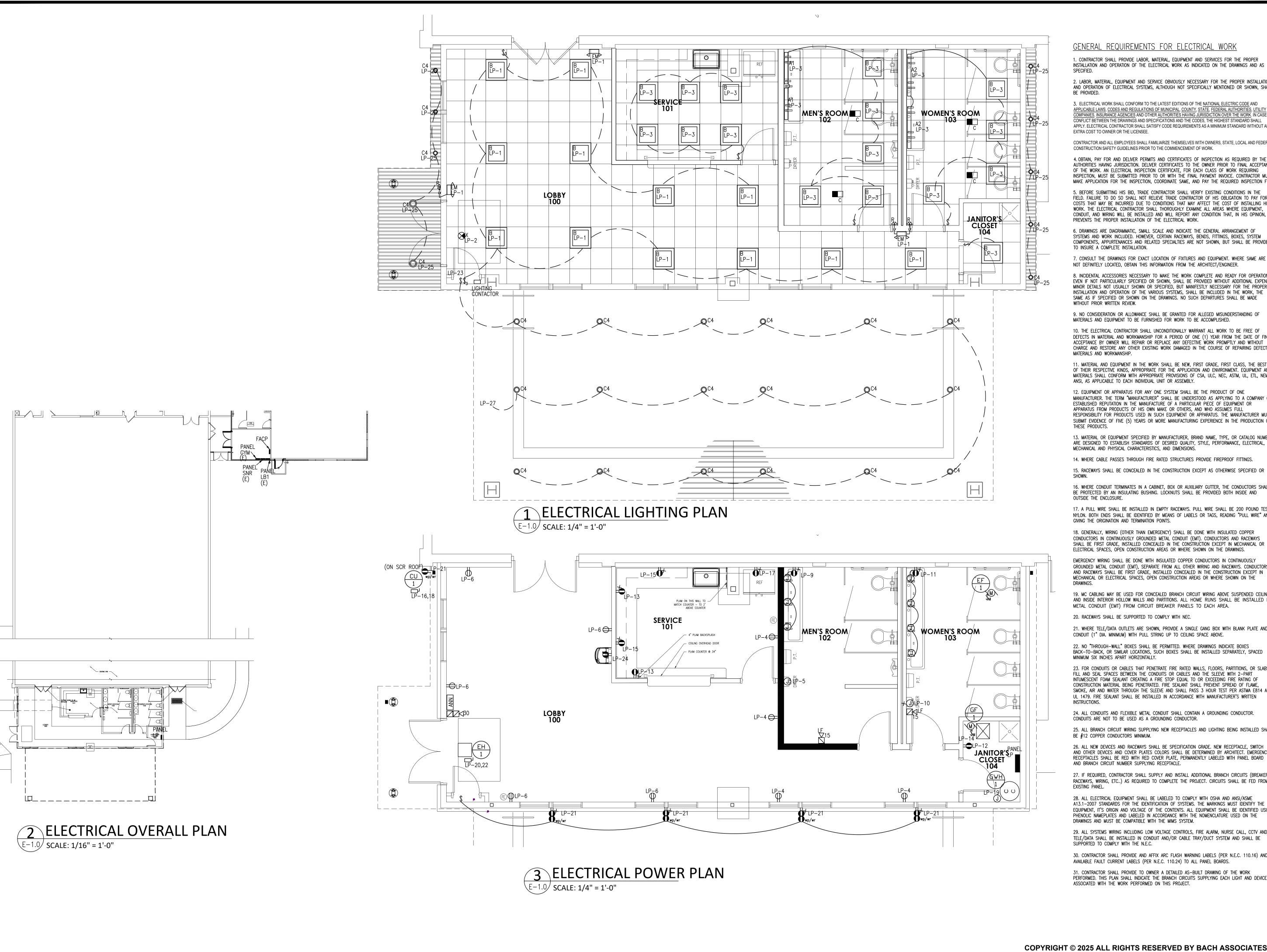
AKA

CHECKED BY:

REH

DRAWING NUMBER:

EC1



GENERAL REQUIREMENTS FOR ELECTRICAL WORK

1. CONTRACTOR SHALL PROVIDE LABOR, MATERIAL, EQUIPMENT AND SERVICES FOR THE PROPER INSTALLATION AND OPERATION OF THE ELECTRICAL WORK AS INDICATED ON THE DRAWINGS AND AS

2. LABOR, MATERIAL, EQUIPMENT AND SERVICE OBVIOUSLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF ELECTRICAL SYSTEMS, ALTHOUGH NOT SPECIFICALLY MENTIONED OR SHOWN, SHALL

3. ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE NATIONAL ELECTRIC CODE AND APPLICABLE LAWS, CODES AND REGULATIONS OF MUNICIPAL, COUNTY, STATE, FEDERAL AUTHORITIES, UTILITY COMPANIES, INSURANCE AGENCIES AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE CODES, THE HIGHEST STANDARD SHALL APPLY. ELECTRICAL CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY

CONTRACTOR AND ALL EMPLOYEES SHALL FAMILIARIZE THEMSELVES WITH OWNERS, STATE, LOCAL AND FEDERAL CONSTRUCTION SAFETY GUIDELINES PRIOR TO THE COMMENCEMENT OF WORK.

4. OBTAIN, PAY FOR AND DELIVER PERMITS AND CERTIFICATES OF INSPECTION AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER CERTIFICATES TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK. AN ELECTRICAL INSPECTION CERTIFICATE, FOR EACH CLASS OF WORK REQUIRING INSPECTION, MUST BE SUBMITTED PRIOR TO OR WITH THE FINAL PAYMENT INVOICE. CONTRACTOR MUST MAKE APPLICATION FOR THE INSPECTION, COORDINATE SAME, AND PAY THE REQUIRED INSPECTION FEE.

5. BEFORE SUBMITTING HIS BID, TRADE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD. FAILURE TO DO SO SHALL NOT RELIEVE TRADE CONTRACTOR OF HIS OBLIGATION TO PAY FOR COSTS THAT MAY BE INCURRED DUE TO CONDITIONS THAT MAY AFFECT THE COST OF INSTALLING HIS WORK. THE ELECTRICAL CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, CONDUIT, AND WIRING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS OPINION, PREVENTS THE PROPER INSTALLATION OF THE ELECTRICAL WORK.

6. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. HOWEVER, CERTAIN RACEWAYS, BENDS, FITTINGS, BOXES, SYSTEM COMPONENTS, APPURTENANCES AND RELATED SPECIALTIES ARE NOT SHOWN, BUT SHALL BE PROVIDED

7. CONSULT THE DRAWINGS FOR EXACT LOCATION OF FIXTURES AND EQUIPMENT. WHERE SAME ARE NOT DEFINITELY LOCATED, OBTAIN THIS INFORMATION FROM THE ARCHITECT/ENGINEER.

3. INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION. EVEN IF NOT PARTICULARLY SPECIFIED OR SHOWN, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK, THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN REVIEW.

9. NO CONSIDERATION OR ALLOWANCE SHALL BE GRANTED FOR ALLEGED MISUNDERSTANDING OF MATERIALS AND EQUIPMENT TO BE FURNISHED FOR WORK TO BE ACCOMPLISHED.

10. THE ELECTRICAL CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY OWNER WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

11. MATERIAL AND EQUIPMENT IN THE WORK SHALL BE NEW, FIRST GRADE, FIRST CLASS, THE BEST OF THEIR RESPECTIVE KINDS, APPROPRIATE FOR THE APPLICATION AND ENVIRONMENT. EQUIPMENT AND MATERIALS SHALL CONFORM WITH APPROPRIATE PROVISIONS OF CSA, ULC, NEC, ASTM, UL, ETL, NEMA, ANSI, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

12. EQUIPMENT OR APPARATUS FOR ANY ONE SYSTEM SHALL BE THE PRODUCT OF ONE MANUFACTURER. THE TERM "MANUFACTURER" SHALL BE UNDERSTOOD AS APPLYING TO A COMPANY OF ESTABLISHED REPUTATION IN THE MANUFACTURE OF A PARTICULAR PIECE OF EQUIPMENT OR APPARATUS FROM PRODUCTS OF HIS OWN MAKE OR OTHERS. AND WHO ASSUMES FULL RESPONSIBILITY FOR PRODUCTS USED IN SUCH EQUIPMENT OR APPARATUS. THE MANUFACTURER MUST SUBMIT EVIDENCE OF FIVE (5) YEARS OR MORE MANUFACTURING EXPERIENCE IN THE PRODUCTION OF

13. MATERIAL OR EQUIPMENT SPECIFIED BY MANUFACTURER, BRAND NAME, TYPE, OR CATALOG NUMBER ARE DESIGNED TO ESTABLISH STANDARDS OF DESIRED QUALITY, STYLE, PERFORMANCE, ELECTRICAL, MECHANICAL AND PHYSICAL CHARACTERISTICS, AND DIMENSIONS.

14. WHERE CABLE PASSES THROUGH FIRE RATED STRUCTURES PROVIDE FIREPROOF FITTINGS.

16. WHERE CONDUIT TERMINATES IN A CABINET, BOX OR AUXILIARY GUTTER, THE CONDUCTORS SHALL BE PROTECTED BY AN INSULATING BUSHING. LOCKNUTS SHALL BE PROVIDED BOTH INSIDE AND OUTSIDE THE ENCLOSURE.

17. A PULL WIRE SHALL BE INSTALLED IN EMPTY RACEWAYS. PULL WIRE SHALL BE 200 POUND TEST NYLON. BOTH ENDS SHALL BE IDENTIFIED BY MEANS OF LABELS OR TAGS, READING "PULL WIRE" AND GIVING THE ORIGINATION AND TERMINATION POINTS.

18. GENERALLY, WIRING (OTHER THAN EMERGENCY) SHALL BE DONE WITH INSULATED COPPER CONDUCTORS IN CONTINUOUSLY GROUNDED METAL CONDUIT (EMT). CONDUCTORS AND RACEWAYS SHALL BE FIRST GRADE, INSTALLED CONCEALED IN THE CONSTRUCTION EXCEPT IN MECHANICAL OR ELECTRICAL SPACES, OPEN CONSTRUCTION AREAS OR WHERE SHOWN ON THE DRAWINGS.

EMERGENCY WIRING SHALL BE DONE WITH INSULATED COPPER CONDUCTORS IN CONTINUOUSLY GROUNDED METAL CONDUIT (EMT), SEPARATE FROM ALL OTHER WIRING AND RACEWAYS. CONDUCTORS AND RACEWAYS SHALL BE FIRST GRADE, INSTALLED CONCEALED IN THE CONSTRUCTION EXCEPT IN MECHANICAL OR ELECTRICAL SPACES, OPEN CONSTRUCTION AREAS OR WHERE SHOWN ON THE

19. MC CABLING MAY BE USED FOR CONCEALED BRANCH CIRCUIT WIRING ABOVE SUSPENDED CEILING AND INSIDE INTERIOR HOLLOW WALLS AND PARTITIONS. ALL HOME RUNS SHALL BE INSTALLED IN METAL CONDUIT (EMT) FROM CIRCUIT BREAKER PANELS TO EACH AREA.

20. RACEWAYS SHALL BE SUPPORTED TO COMPLY WITH NEC. 21. WHERE TELE/DATA OUTLETS ARE SHOWN, PROVIDE A SINGLE GANG BOX WITH BLANK PLATE AND

CONDUIT (1" DIA. MINIMUM) WITH PULL STRING UP TO CEILING SPACE ABOVE. 22. NO "THROUGH-WALL" BOXES SHALL BE PERMITTED. WHERE DRAWINGS INDICATE BOXES

23. FOR CONDUITS OR CABLES THAT PENETRATE FIRE RATED WALLS, FLOORS, PARTITIONS, OR SLABS, FILL AND SEAL SPACES BETWEEN THE CONDUITS OR CABLES AND THE SLEEVE WITH 2-PART INTUMESCENT FOAM SEALANT CREATING A FIRE STOP EQUAL TO OR EXCEEDING FIRE RATING OF CONSTRUCTION MATERIAL BEING PENETRATED. FIRE SEALANT SHALL PREVENT SPREAD OF FLAME, SMOKE, AIR AND WATER THROUGH THE SLEEVE AND SHALL PASS 3 HOUR TEST PER ASTMA E814 AND

24. ALL CONDUITS AND FLEXIBLE METAL CONDUIT SHALL CONTAIN A GROUNDING CONDUCTOR. CONDUITS ARE NOT TO BE USED AS A GROUNDING CONDUCTOR.

25. ALL BRANCH CIRCUIT WIRING SUPPLYING NEW RECEPTACLES AND LIGHTING BEING INSTALLED SHALL BE #12 COPPER CONDUCTORS MINIMUM.

26. ALL NEW DEVICES AND RACEWAYS SHALL BE SPECIFICATION GRADE. NEW RECEPTACLE, SWITCH AND OTHER DEVICES AND COVER PLATES COLORS SHALL BE DETERMINED BY ARCHITECT. EMERGENCY RECEPTACLES SHALL BE RED WITH RED COVER PLATE, PERMANENTLY LABELED WITH PANEL BOARD AND BRANCH CIRCUIT NUMBER SUPPLYING RECEPTACLE.

27. IF REQUIRED, CONTRACTOR SHALL SUPPLY AND INSTALL ADDITIONAL BRANCH CIRCUITS (BREAKERS, RACEWAYS, WIRING, ETC..) AS REQUIRED TO COMPLETE THE PROJECT. CIRCUITS SHALL BE FED FROM

28. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED TO COMPLY WITH OSHA AND ANSI/ASME A13.1-2007 STANDARDS FOR THE IDENTIFICATION OF SYSTEMS. THE MARKINGS MUST IDENTIFY THE EQUIPMENT. IT'S ORIGIN AND VOLTAGE OF THE CONTENTS. ALL EQUIPMENT SHALL BE IDENTIFIED USING PHENOLIC NAMEPLATES AND LABELED IN ACCORDANCE WITH THE NOMENCLATURE USED ON THE DRAWINGS AND MUST BE COMPATIBLE WITH THE MIMS SYSTEM.

29. ALL SYSTEMS WIRING INCLUDING LOW VOLTAGE CONTROLS, FIRE ALARM, NURSE CALL, CCTV AND TELE/DATA SHALL BE INSTALLED IN CONDUIT AND/OR CABLE TRAY/DUCT SYSTEM AND SHALL BE SUPPORTED TO COMPLY WITH THE N.E.C.

30. CONTRACTOR SHALL PROVIDE AND AFFIX ARC FLASH WARNING LABELS (PER N.E.C. 110.16) AND AVAILABLE FAULT CURRENT LABELS (PER N.E.C. 110.24) TO ALL PANEL BOARDS.

31. CONTRACTOR SHALL PROVIDE TO OWNER A DETAILED AS-BUILT DRAWING OF THE WORK PERFORMED. THIS PLAN SHALL INDICATE THE BRANCH CIRCUITS SUPPLYING EACH LIGHT AND DEVICE ASSOCIATED WITH THE WORK PERFORMED ON THIS PROJECT.

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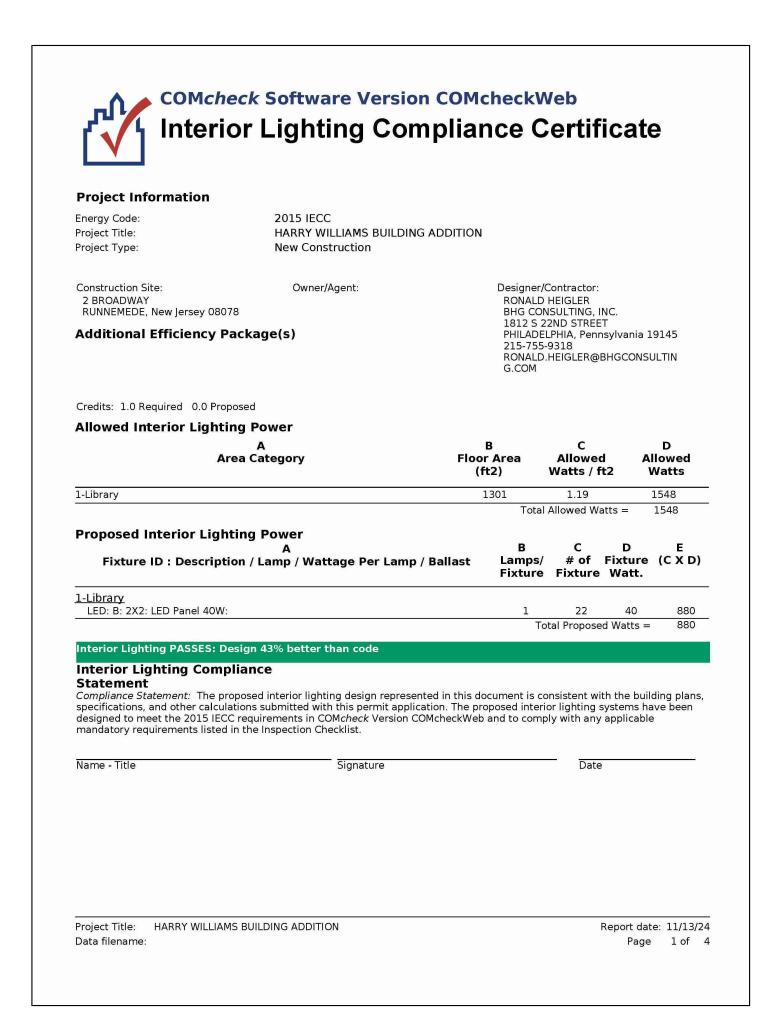
DATE DESCRIPTION DRAWING TITLE:

ELECTRICAL FLOOR PLAN

DESIGNED BY: RB2024-5 DRAWN BY: 8-19-2025 CHECKED BY: SCALE: AS SHOWN DRAWING NUMBER:

E-1.0

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				LIGH	TING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	MOUNTING		LAMPS	MANUFACTURER'S CATALOG NUMBER	INPUT WATTS	VOLTS	REMARKS
			QTY.	LAMP DESIGNATION		WATTS		
A1	RECESSED LED	RECESSED	1	17W LED	FINELITE SERIES 17 LED ACF PF S17LED ACF PF 3'S 835 120V — SC	17	120	_
A2	RECESSED LED	RECESSED	1	17W LED	FINELITE SERIES 17 LED ACF PF S17LED ACF PF 4'S 835 120V — SC	17	120	_
В	2' X 2' RECESSED LED TROFFER	RECESSED	1	36W LED	JUNO #S2X2BL-39-35-U-WH-3	36	120	-
C4	RECESSED L.E.D. DOWN LIGHT	RECESSE D	1	L.E.D.	PORTFOLIO LD6 SERIES	9	MVOLT	SUITABLE FOR WET LOCATIONS
X	EDGE LIT EXIT SIGN	UNIVERSAL	1	LED INCLUDED	DUAL LITE #LES-X-S-R-XX	4	120	X=PROVIDE MOUNTING AS REQUIRED XX=PROVIDE CHEVRONS AS SHOWN ON PLANS
ЕМ	EMERGENCY LIGHT	UNIVERSAL	1	LED INCLUDED	SURE LITE #CU2—LED	4	120	'R' -COMPATIBLE REMOTE HEAD

NOTES: ELECTRICAL CONTRACTOR SHALL VERIFY ALL LIGHTING FIXTURE SELECTIONS WITH ARCHITECT/OWNER PRIOR TO SUBMITTING HIS BID. VERIFY ALL FLANGE, BAFFLE AND TRIM COLOR AND LENS SELECTIONS WITH ARCHITECT/OWNER. CONTRACTOR SHALL COORDINATE FIXTURES WITH CEILING TYPES AND PROVIDE MOUNTING HARDWARE AS REQUIRED. ALL EMERGENCY FIXTURES AND BATTERY UNITS SHALL BE CONNECTED AHEAD OF SWITCH LEG.

### GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE:

1. LIGHT FIXTURES SHALL BE PROVIDED AS NOTED ABOVE. SEE ARCHITECTURAL PLANS FOR FIXTURE SPECIFICATIONS NOT INDICATED ON THIS SCHEDULE. FIXTURES SUPPLIED, WIRED AND INSTALLED BY CONTRACTOR. ALL EXIT AND EMERGENCY SIGNS AND LIGHTING SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR.

2. COORDINATE ALL LIGHT FIXTURES WITH CEILING, SOFFIT AND WALL CONSTRUCTION DETAILS AND VERIFY EXACT FIXTURE AND LAMP REQUIREMENTS PRIOR TO ORDERING FIXTURES. PRIOR TO ORDERING, FIELD VERIFY FIXTURE INSTALLATION REQUIREMENTS WITH ACCUSS FOR MAINTENANCE, LAMP REPLACEMENT AND EMERGENCY BATTERY PACK FOR FIXTURES SO EQUIPPED.

3. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES ON EXTERIOR BUILDING ELEVATIONS. COORDINATE THE EXACT LOCATION OF LIGHT FIXTURES IN EQUIPMENT ROOMS TO AVOID INTERFERENCE WITH PIPING, DUCTWORK, EQUIPMENT, ETC.

4. LIGHT FIXTURES IN LAY-IN CEILINGS SHALL BE SUPPORTED INDEPENDENT OF CEILING GRID. SUPPORT TO BUILDING STRUCTURE ABOVE USING HANGING WIRE AND HARDENED STEEL CLIPS TO STRUCTURAL STEEL.

5. WALL MOUNTED FIXTURES SHALL COMPLY WITH ADA, ANSI A1176.1, SECTION 4.4 FOR PROTRUDING OBJECTS. VERIFY LOCAL CODE REQUIREMENTS WITH BUILDING OFFICIAL.

6. 'EM' OR 'NL' ON FIXTURE INDICATES EMERGENCY AND/OR NIGHT LIGHT. CONNECT TO CIRCUIT AHEAD OF SWITCH TO ALLOW CONTINUOUS OPERATION.

### BHG CONSULTING ENGINEERS, INC.

1812 SOUTH 22ND STREET PHILADELPHIA, PA 19145 Tel: 215-755-9318 Fax: 215-755-9319

CEALC:

RONALD HEIGLER, PE
NJ PROFESSIONAL ENGINEER No. GE 44485

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

# OUGH OF RUNNEMEDERY WILLIAMS BUILDING ADDITION

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NO. DESCRIPTION DATE

ELECTRICAL SCHEDULES

JOB NO: DESIGNED BY: REH

DATE: DRAWN BY: AKA

SCALE: CHECKED BY: REH

E-1.1

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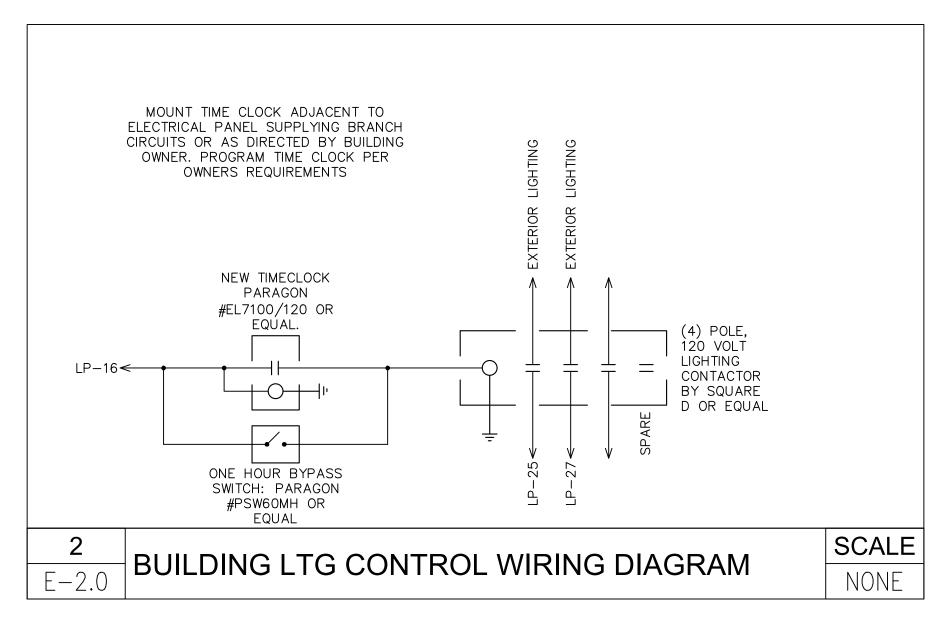
				NI	EUTRAL BUS:	100%		VOLTAGE:		208Y/120V, 1PH, 3W & G	
PANEL NO	).			G	ROUND BUS:	YES		MAINS:		125A	
LP			I	SOLATED G	ROUND BUS:	NO	MAIN	CIR. BKR.:		125A / 2P	
LIGHTING	AND RECEPTACLE PANEL SCHEDULE				MOUNTING:	FLUSH	A	IC RATING:		10,000	
CIR.		WIRE	BREAKER	2002.00.00				BREAKER	WIRE		CIR.
NO.	DESCRIPTION	SIZE	AMPS	POLES	A (VA)	B (VA)	POLES	AMPS	SIZE	DESCRIPTION	NO.
1	LIGHTING	#12	20	1	20	400	1	20	#12	EXIT SIGNS	2
3	LIGHTING	#12	20	1		400 720	1	20	#12	RECS: CONVENIENCE	4
5	HAND DRYER	#12	20	1	1000 <b>1</b>		1	20	#12	RECS: LOBBY	6
7	HAND DRYER	#12	20	1	<b></b>	1000 <b>1</b> 000	1	20	#12	HAND DRYER	8
9	REC: BATHROOM	#12	20	1	360 <b>1000</b>		1	20	#12	HAND DRYER	10
11	REC: BATHROOM	#12	20	1		360 <b>3</b> 60	1	20	#12	REC: JANITOR'S CLOSET	12
13	RECS: COUNTER SERVICE	#12	20	1	750 <b>1200</b>		1	20	#12	GF-1	14
15	RECS: COUNTER SERVICE	#12	20	1		750 <b>3848</b>	2	ro.	щ.,	CU-1	16
17	RECS: COUNTER SERVICE	#12	20	1	750 <b>4</b> 3848		2	50	#4	CU-1	18
19	GWH	#12	20	1		200 < 2000	2	20	440	PH 4	20
21	REC: STAGE	#12	20	1	1440 <b>2000</b>		2	30	#10	EH-1	22
23	EXT LIGHTING	#12	20	1		400 <b>4</b>	1	20	#12	WATER COOLER	24
25	EXT LIGHTING	#12	20	1	400					NOT USED	26
27	EXT LIGHTING	#12	20	1		240				NOT USED	28
29	NOT USED				0 •					NOT USED	30
31	NOT USED					0 •				NOT USED	32
33	NOT USED				0 0					NOT USED	34
35	NOT USED					0 4				NOT USED	36
37	NOT USED				0					NOT USED	38
39	NOT USED					0 0				NOT USED	40
41	NOT USED				0					NOT USED	42
	SUB TOTAL				13788	11878				SUB TOTAL	,
LEGI	END: ** 6mA GROUND FAULT CIRCUIT BREA				TED LOAD	25.666		REMARKS:	*I O A D C Y	ICH HIDE OF OV ODADE CADACHTY	
	* 30mA GROUND FAULT CIRCUIT BREAK # LOCK-ON CIRCUIT BREAKER HANDLE	ĽК			ND LOAD AMPS	25.6 125	AMPS 1 PH.	•	LUADS II	NCLUDE 25% SPARE CAPACITY	

### GENERAL ELECTRICAL NOTES:

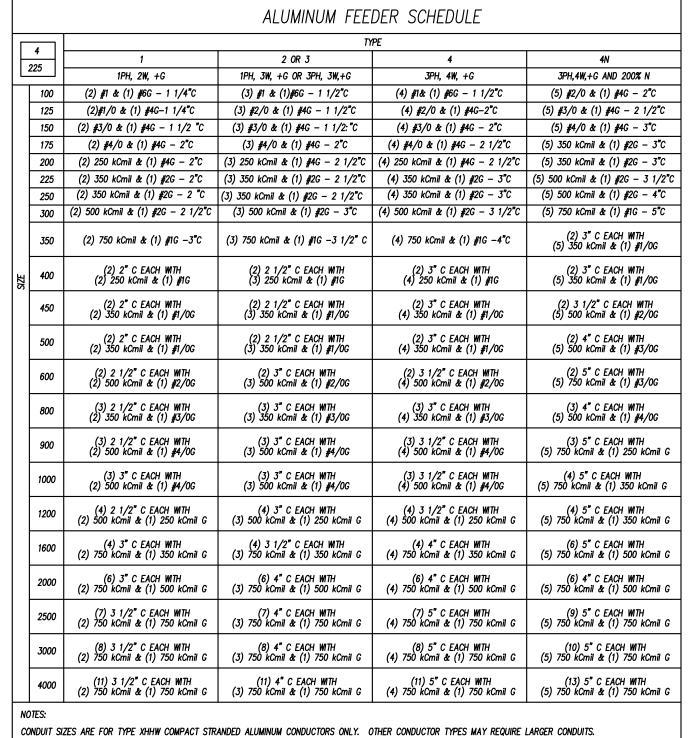
- 1. ALL ELECTRICAL MATERIALS AND EQUIPMENT FOR THIS PROJECT SHALL BE NEW AND APPROVED BY UNDERWRITERS LABORATORY (U.L.) OR ANY OTHER NATIONALLY RECOGNIZED TESTING AGENCY.
- 2. UPON COMPLETION OF THE WORK, THE ENTIRE WIRING SYSTEM SHALL BE FREE FROM GROUNDS, SHORT CIRCUITS, OPENS, OVERLOADS, AND IMPROPER VOLTAGE.
- 3. LIGHTING AND POWER BRANCH CIRCUIT PANEL BOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE EQUIPPED WITH QUICK-MAKE, QUICK-BREAK, TRIP INDICATING, MOLDED CASE, THERMAL MAGNETIC CIRCUIT BREAKERS.
- 4. TWO OR THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP TYPE. SINGLE POLE BREAKER WITH YOKED HANDLE WILL NOT BE PERMITTED.
- 5. ALL LIGHTING AND POWER PANELS SHALL HAVE THEIR TOP AT 6'-6" ABOVE FINISHED FLOOR.
- 6. PANEL BOARDS SHALL BE SUITABLE FOR FLUSH MOUNTING OR SURFACE MOUNTED INSTALLATION AS REQUIRED.
- 7. PANEL BOARDS SHALL BE DEAD-FRONT, SAFETY-TYPE AND SHALL CONTAIN MAIN CIRCUIT BREAKERS, MAIN LUGS RATINGS, BRANCH CIRCUIT BREAKERS, SPACE AND BUSSES AS INDICATED ON DRAWINGS.
- 8. THE FOLLOWING CONVENTION SHALL BE USED:

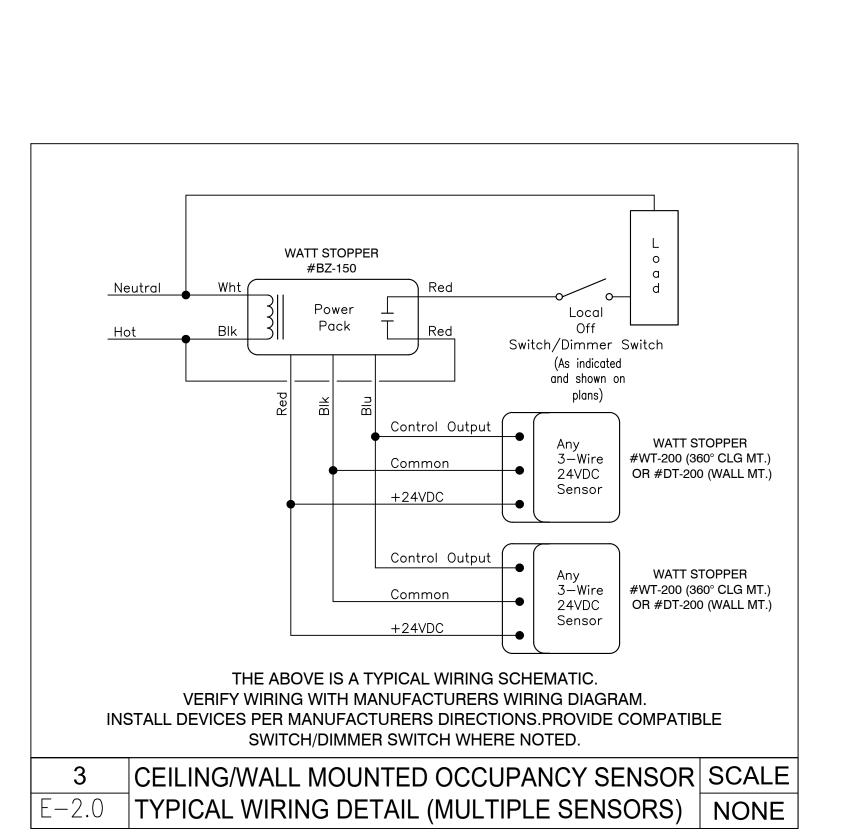
FEEDER TYPE FEEDER SIZE

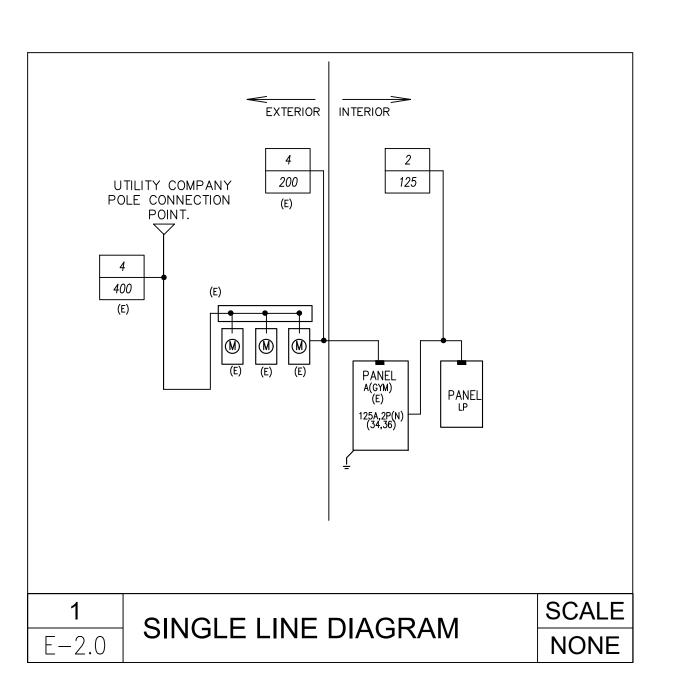
9. WHERE SHORT CIRCUIT RATINGS ARE NOT INDICATED, PROVIDE 65 KAIC MINIMUM. AS ACTUAL FEEDER ROUTING MAY VARY, THE SHORT CIRCUIT RATING OF ANY LOAD CENTER MAY BE REDUCED TO 10 KAIC IF THE FEEDER LENGTH FROM THE UTILITY TRANSFORMER TO THE LOAD CENTER EXCEEDS 70 FEET.











### WORKING SPACE CLEARANCES AROUND ELECTRICAL EQUIPMENT

NOMINAL VOLTAGE TO	MINIMU	JM CLEAR DIS	TANCE
GROUND	CONDITION 1	CONDITION 2	CONDITION 3
0-150 VOLTS	914mm (3'-0")	914mm (3'–0")	914mm (3'-0")
151-600 VOLTS	914mm (3'-0")	1.07m (3'-6")	1.22m (4'-0")
601-2500 VOLTS	914mm (3'-0")	1.2m (4'-0")	1.5m (5'-0")
2501-9000 VOLTS	1.2m (4'-0")	1.5m (5'-0")	1.8m (6'-0")
9000-25000 VOLTS	1.5m (5'-0")	1.8m (6'-0")	2.8m (9'-0")

WHERE THE FOLLOWING CONDITIONS ARE AS FOLLOWS: CONDITION 1: EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE THER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY

GUARDED BY INSULATING MATERIALS.

CONDITION 3: EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.

CONDITION 2: EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.

AREA SHALL BE PROVIDED TO GIVE ACCESS TO AND EGRESS

ENTRANCE TO AND EGRESS FROM WORKING SPACE:

PER N.E.C. 110.26 (C)(1) & (2): 1. MINIMUM REQUIRED: AT LEAST ONE ENTRANCE OF SUFFICIENT FROM WORKING SPACE ABOUT ELECTRICAL EQUIPMENT.

2. LARGE EQUIPMENT: FOR EQUIPMENT RATED AT 1200 AMPERES OR MORE OVER 1.8m (6'-0") WIDE THAT CONTAINS OVERCURRENT DEVICES, SWITCHING DÈVICES OR CONTROL DEVICES, THERE SHALL BE ONE ENTRANCE TO AND EGRESS FROM THE REQUIRED WORKING SPACE NOT LESS THAN 610mm (24") WIDE AND 2.0m (6'-6") HIGH AT EACH END OF THE WORKING SPACE. A SINGLE ENTRANCE TO AND EGRESS FROM THE REQUIRED WORKING SPACE SHALL BE PERMITTED WHERE EITHER OF THE FOLLOWING CONDITIONS ARE MET:

a.) WHERE THE LOCATION PERMITS A CONTINUOUS AND UNOBSTRUCTED WAY OF EGRESS TRAVEL, A SINGLE ENTRANCE TO THE WORKING SPACE SHALL BE PERMITTED. b.) EXTRA WORKING SPACE. WHERE THE DEPTH OF THE WORKING SPACE IS TWICE THAT REQUIRED, A SINGLE ENTRANCE SHALL BE PERMITTED.

E-2.0

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NEMEDE SUILDING

<u></u> ∑ ≥

BOROU(HARRY

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REVISIONS DATE DESCRIPTION RAWING TITLE:

SINGLE LINE SCHEDULES DESIGNED BY:

RB2024-5 DRAWN BY: 8-19-2025 CHECKED BY: AS SHOWN DRAWING NUMBER:

ITEM	DESCRIPTION	STANDBY		QTY		TOTAL	ALARM		QTY		TOTAL
		CURRENT				STANDBY	CURRENT				ALARM
		PER UNIT				CURRENT	PER UNIT				CURRENT
		(AMPS)				PER ITEM	(AMPS)				PER ITEM
FACP	Fire Alarm Control Panel	0.2500	Χ	0	=	0.0000	0.5000	Χ	0	=	0.000
ANN	Annunciator	0.1250	Χ	1	=	0.1250	0.2500	Χ	1	=	0.250
SMOKE	Smoke Detector	0.0001	Χ	0	=	0.0000	0.0010	Χ	1	=	0.001
HEAT	Heat Detector	0.0000	Χ	0	=	0.0000	0.0000	X	0	=	0.000
PULL	Pull Station	0.0000	Χ	1	=	0.0000	0.0000	Χ	1	=	0.000
BELL	FDC Bell	0.0000	Χ	0	=	0.0000	0.0500	Χ	0	=	0.000
HORN	Horn	0.0000	Χ	0	=	0.0000	0.0500	Χ	0	=	0.000
STROBE	Strobe	0.0000	Χ	0	=	0.0000	0.1000	Χ	0	=	0.000
H/S	Horn/Strobe	0.0000	Χ	3	=	0.0000	0.1500	Χ	3	=	0.450
0	0	0.0000	Χ	0	=	0.0000	0.0000	X	0	=	0.000
0	0	0.0000	Χ	0	=	0.0000	0.0000	Χ	0	=	0.000
0	0	0.0000	Χ	0	=	0.0000	0.0000	Χ	0	=	0.000
0	0	0.0000	Χ	0	=	0.0000	0.0000	Χ	0	=	0.000
				TOTAL SYS	TEM			•	TOTAL SYS	TEM	
		STAN	NDB	Y CURRENT (A	MPS)		ALARI	I CL	JRRENT (AN	/IPS)	0.701
Prepared	for:	REQUIRED		TOTAL		REQUIRED	REQUIRED		TOTAL		REQUIRED

	NFPA 72-2002		CURRENT		(AMP-HOURS)	NFPA 72-2002		CURRENT		(AMP-HOURS)
	4.4.1.5.3		(AMPS)			4.4.1.5.3		(AMPS)		
	24	X		=	3.0000	0.083	X	0.7010	=	0.0582
Prepared by:	REQUIRED		REQUIRED		TOTAL	TOTAL		SAFETY		ADJUSTED
	STANDBY		ALARM		CAPACITY	CAPACITY		FACTOR		BATTERY
	CAPACITY		CAPACITY		(AMP-HOURS)	(AMP-HOURS)				CAPACITY
	(AMP-HOURS)		(AMP-HOURS)							(AMP-HOURS)
	3.00	+	0.0582	=	3.0582	3.0582	+	20%	=	

CAPACITY (HOURS)

STANDBY

TIME (HRS)

This calculator provided voltage drop calculations in three formats (Point to Point, End of Line, and Load Centering).

	Make sı	ure that you	ı know w	hat metho	d is accepte	ed by, and	the results	do not exc	eed the lin	nits set by	the respect	tive jurisd	iction	
						Point	to Point M	ethod	End	of Line Me	thod	Load (	Centering N	lethod
Project Name	<b>;</b>	HARRY WI	LLIAMS E	BUILDING A	ADDITION	CIRCUIT	IS WITHIN	LIMITS	CIRCUIT	IS WITHIN	LIMITS	CIRCUIT	IS WITHIN	LIMITS
Date		11/9/2024												
Circuit Number	er	ADDITION				To	tals	Voltage	То	tals	Voltage	То	tals	Voltage
Area Covered	l	ADDITION				Current	Distance	Drop	Current	Distance	Drop	Current	Distance	Drop
Nominal Syst	em Voltage		24			0.534	47	0.10	0.534	47	0.154	0.534	47	0.077
Minimum Dev	rice Voltage		16			End of L	ine Voltage	23.90	End of L	ine Voltage	23.85	End of L	ine Voltage	23.92
Total Circuit (	Current	0.534		Wire	Ohm's	Pe	ercent Drop	0.40%	Pe	ercent Drop	0.64%	Pe	ercent Drop	0.32%
				Gauge	Per 1000	End of	Line and Lo	ad Centerin	g Methods	use only th	e wire guag	e for the fir	st device to	source
Distance from	n source to	1st device	2	14	3.07			Standard	d Wire Res	istance in C	hms per 10	00 feet.		
Wire Gauge f	or balance	of circuit		14	3.07			18=7.77	16=4.89	14=3.07	12=1.98	10=1.24		
Enter curren	t in amps.	Distance					18-14 Awg	= Solid Con	ductors	12-10 Aw	/g = Strande	ed Conduct	tors	
.150 = 1	50 ma	from		Voltage		Notes:								
Device	Device	previous	At	Drop from	Percent	Wire resist	tance is dou	bled in the c	alculations	for two wire	es (Positive	and Negat	ive)	
Number	Current	device	Device	source	Drop	The voltag	e calculated	to the last of	device in ar	ny method n	nust not be	lower then		

Distance form		أالتانية المتلا	^	4.4	0.07		04	INACA Darie	4
Distance from			2	14	3.07			d Wire Resis	
Wire Gauge f		of circuit		14	3.07		18=7.77		14=3.0
Enter curren	t in amps.	Distance				18-14 Awg	g = Solid Con	ductors	12-10 A
.150 = 1	50 ma	from		Voltage		Notes:			
Device	Device	previous	At	Drop from	Percent	Wire resistance is do	ubled in the c	alculations f	or two wi
Number	Current	device	Device	source	Drop	The voltage calculated	d to the last o	device in any	method
Device 1	0.178	2	23.99	0.007	0.03%	the manufactures liste	ed minimum o	perating vol	tage (IE:
Device 2	0.178	36	23.91	0.085	0.36%				
Device 3	0.178	9	23.90	0.095	0.40%	Device Manufacturer	<b>EDWARDS</b>	IO SERIES	
END			23.90	0.095	0.40%			Current	
END			23.90	0.095	0.40%	Horn Strobes		@Rated	
END			23.90	0.095	0.40%	Model #	Candela	Voltage	
END			23.90	0.095	0.40%	NS-24MCW	15/30/70	0.035	
END			23.90	0.095	0.40%				
END			23.90	0.095	0.40%				
END			23.90	0.095	0.40%				
END			23.90	0.095	0.40%				
END			23.90	0.095	0.40%				
END			23.90	0.095	0.40%				
END			23.90	0.095	0.40%				
END			23.90	0.095	0.40%				
END			23.90	0.095	0.40%				
END			23.90	0.095	0.40%				
END			23.90	0.095	0.40%				
						7			

23.90 0.095 0.40%

23.90 0.095 0.40%

End of Line Voltage 23.90

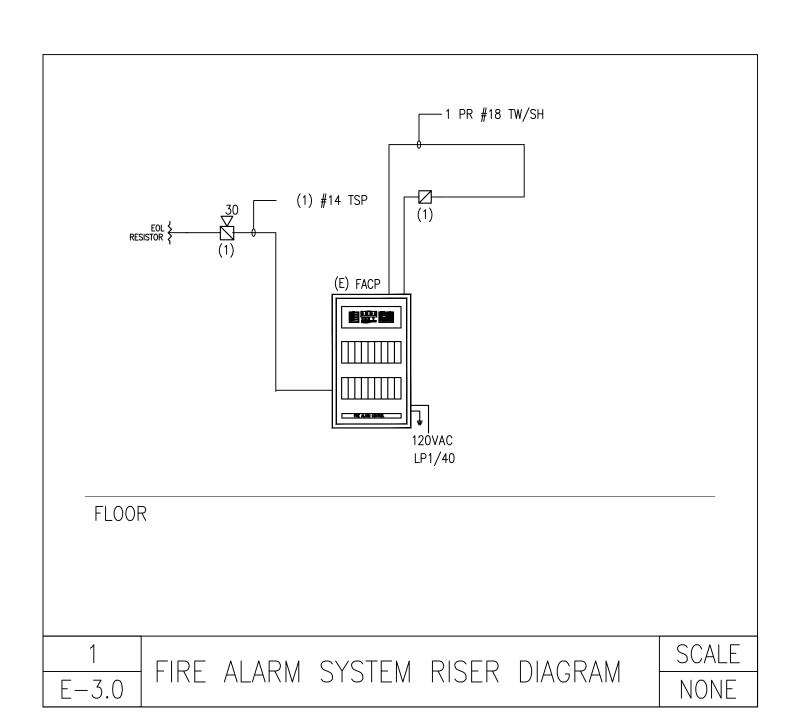
END

END

Device Manufacturer	EW/VDD I	).
Device ivialidiacidiei	LVVAILDIC	Current
Strobe Only		@Rated
Model #	Candela	Voltage
NS	15/30/70	0.044

CAPACITY

ALARM



<u>SYMBO</u>	<u>LS</u>	□Zho	HODN
	FIRE ALARM MANUAL PULL STATION WITH	$\square_{\Theta}$	HORN
	PROTECTION COVER AND COVER WITH WARNING	R	REMOTE ALARM INDICATOR W/KEY TEST SWITCH
PD	HORN PHOTOELECTRIC SMOKE DETECTOR	C	CONTROL MODULE
ID	DUCT SMOKE DETECTOR		I.A.M. MODULE
Ď.	STROBE WITH 15 CANDELA OUTPUT	FACP	FIRE ALARM CONTROL PANEL
	RATING (CANDELA OUTPUT RATING IS NOT INDICATED)	NAC	NOTIFICATION EXTENDER PANEL
<b>∑</b> 30cd	NOT INDICATED) STROBE WITH 30 CANDELA OUTPUT RATING NUMBER INDICATES CANDELA OUTPUT RATING	FAA	REMOTE ANNUNCIATOR
<b>◯</b> 110cd	OF STROBE. STROBE WITH 110 CANDELA OUTPUT RATING	EOL	END OF LINE RESISTOR
	NUMBER INDICATES CANDELA OUTPUT RATING OF STROBE.	WG	DEVICE WITH WIRE GUARD
	HORN AND STROBE COMBINATION UNIT STROBE WITH 15 CANDELA OUTPUT	WP	WEATHER PROOF DEVICE
	RATING (CANDELA OUTPUT RATING IS	<b>&gt;</b>	SUPPLY AIR DUCT
<b>□</b> □ 30cd	NOT INDICATED) HORN AND STROBE COMBINATION UNIT STROBE		RETURN AIR DUCT
Suca	WITH 30 CANDELA OUTPUT RATING NUMBER INDICATES CANDELA OUTPUT RATING OF STROBE.		RETORN AIR DOCT
			EXISTING MOTOR STARTER
110cd	HORN AND STROBE COMBINATION UNIT STROBE WITH 110 CANDELA OUTPUT RATING NUMBER INDICATES CANDELA OUTPUT RATING OF STROBE.	$\boxtimes$	EXISTING CONTROL EQUIPMENT OF FIRE
	FIRE ALARM MANUAL PULL STATION AND HORN AND STROBE COMBINATION UNIT	SD)	EXTINGUISHING SYSTEM  120V HOUSEHOLD SMOKE DETECTOR W/ 9V BATT BACK UP
TD	ABOVE. THERMAL DETECTOR	TS	TAMPER SWITCH
EOL 	END OF LINE RESISTOR	FS	FLOW SWITCH

CEILING MOUNTED

LEEPING AREA, STORAGE 24"

TO TOP OF DEVICE

SYNCHRONIZE

TWO

APPLIANCES IN ANY FIELD OF

VIEW

FIRE ALARM SYSTEM TYPICAL DEVICE MOUNTING HEIGHTS

SMOKE/HEAT DETECTOR

AUDIO ONLY DEVICES

SHALL BE MOUNTED WITH

FINISHED FLOOR AND NOT

LESS THAN 6" FROM THE

THEIR TOPS NOT LESS

THAN 90" ABOVE THE

FINISHED CEILING

CONTROL

PANEL AND/OR **ANNUNCIATOR** 

PANELS

FINISHED FLOOR-

A/C SUPPLY DIFFUSER

ACCEPTED HERE—

LESS 3"

MAGNETIC ---

DOOR 🚳

MEASURED TO THE

4ង់" OPERABLE PART OF

STATION

NEVER HERE —

FINISHED\_

WALL

AUDIO/VISUAL & VISUAL—ONLY DEVICES

LENS OF DEVICE SHALL BE MOUNTED AT 80" ABOVE THE FINISHED

FLOOR OR TOP OF DEVICE SHALL BE 6" BELOW THE CEILING WHICHEVER IS LOWER

STATION

NOTE: CONTRACTOR SHALL VERIFY ALL DEVICE MOUNTING HEIGHTS WITH LOCAL CODES AND AUTHORITIES

HAVING JURISDICTION

**FLOOR** 

FIRE ALARM SYSTEM NOTES:

- (1) REFER TO SPECIFICATIONS FOR MATERIALS TO BE USED AND METHODS OF INSTALLATIONS.
- (2) CONTRACTOR TO PROVIDE NEW FIRE ALARM SYSTEM. NEW FIRE ALARM SYSTEM SHALL INCLUDE A FIRE ALARM CONTROL PANEL (IF REQUIRED), POWER EXTENDER PANELS (IF REQUIRED), PULL STATIONS, HORNS, STROBES, HORN/STROBE COMBINATION UNITS, DUCT DETECTORS, CONTROL MODULES, REMOTE ANNUNCIATOR PANELS, CONDUIT, WIRING, HARDWARE, MOUNTINGS, BACK BOXES AND ALL OTHER ITEMS NECESSARY FOR A COMPLETE AND PROFFESIONAL FIRE ALARM SYSTEM

NOTE: MEASUREMENTS SHOWN ARE TO THE

CLOSEST EDGE OF THE

12" MAX.

WALL MOUNTED SMOKE/HEAT

SCALE

NONE

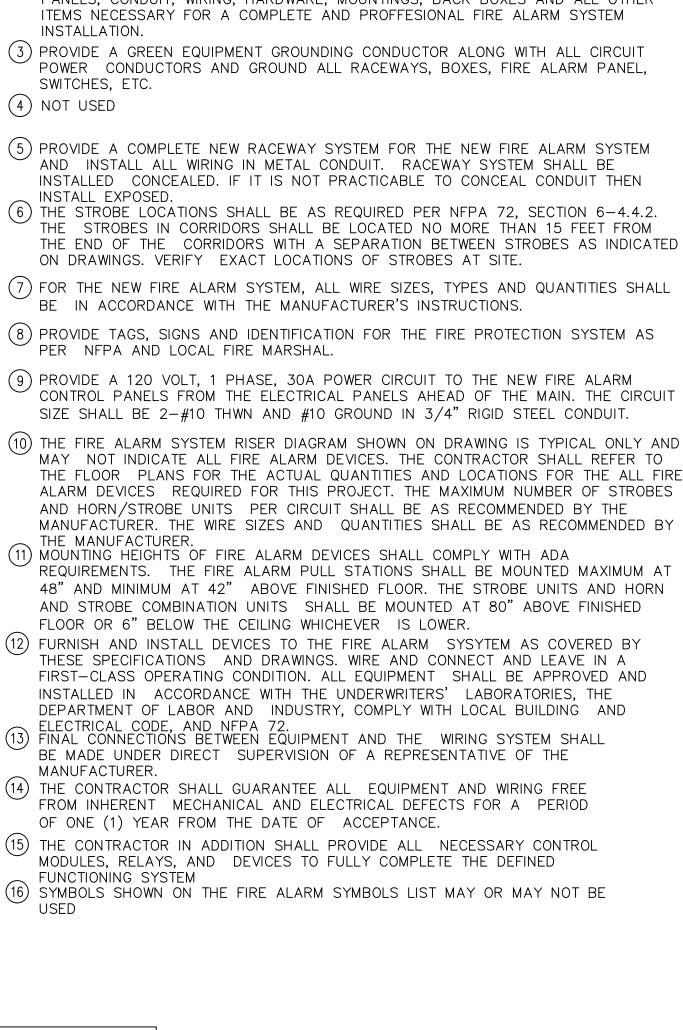
DETECTOR

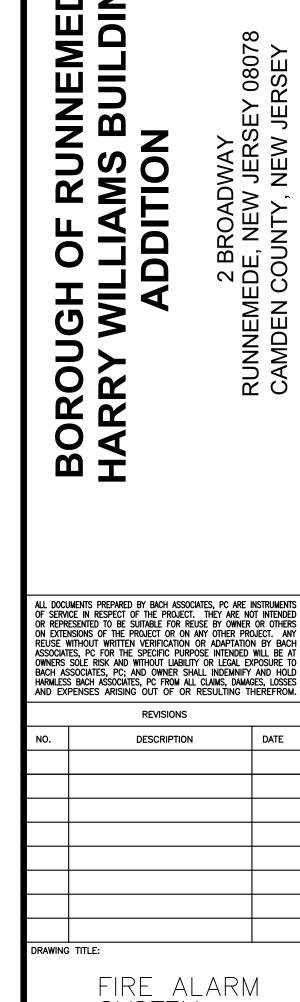
" MIN.

SIDE WALL

AND INSTALL ALL WIRING IN METAL CONDUIT. RACEWAY SYSTEM SHALL BE

- (10) THE FIRE ALARM SYSTEM RISER DIAGRAM SHOWN ON DRAWING IS TYPICAL ONLY AND MAY NOT INDICATE ALL FIRE ALARM DEVICES. THE CONTRACTOR SHALL REFER TO THE FLOOR PLANS FOR THE ACTUAL QUANTITIES AND LOCATIONS FOR THE ALL FIRE ALARM DEVICES REQUIRED FOR THIS PROJECT. THE MAXIMUM NUMBER OF STROBES AND HORN/STROBE UNITS PER CIRCUIT SHALL BE AS RECOMMENDED BY THE MANUFACTURER. THE WIRE SIZES AND QUANTITIES SHALL BE AS RECOMMENDED BY
- REQUIREMENTS. THE FIRE ALARM PULL STATIONS SHALL BE MOUNTED MAXIMUM AT 48" AND MINIMUM AT 42" ABOVE FINISHED FLOOR. THE STROBE UNITS AND HORN AND STROBE COMBINATION UNITS SHALL BE MOUNTED AT 80" ABOVE FINISHED
- INSTALLED IN ACCORDANCE WITH THE UNDERWRITERS' LABORATORIES, THE





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2 | RUNNEMEDE CAMDEN CO

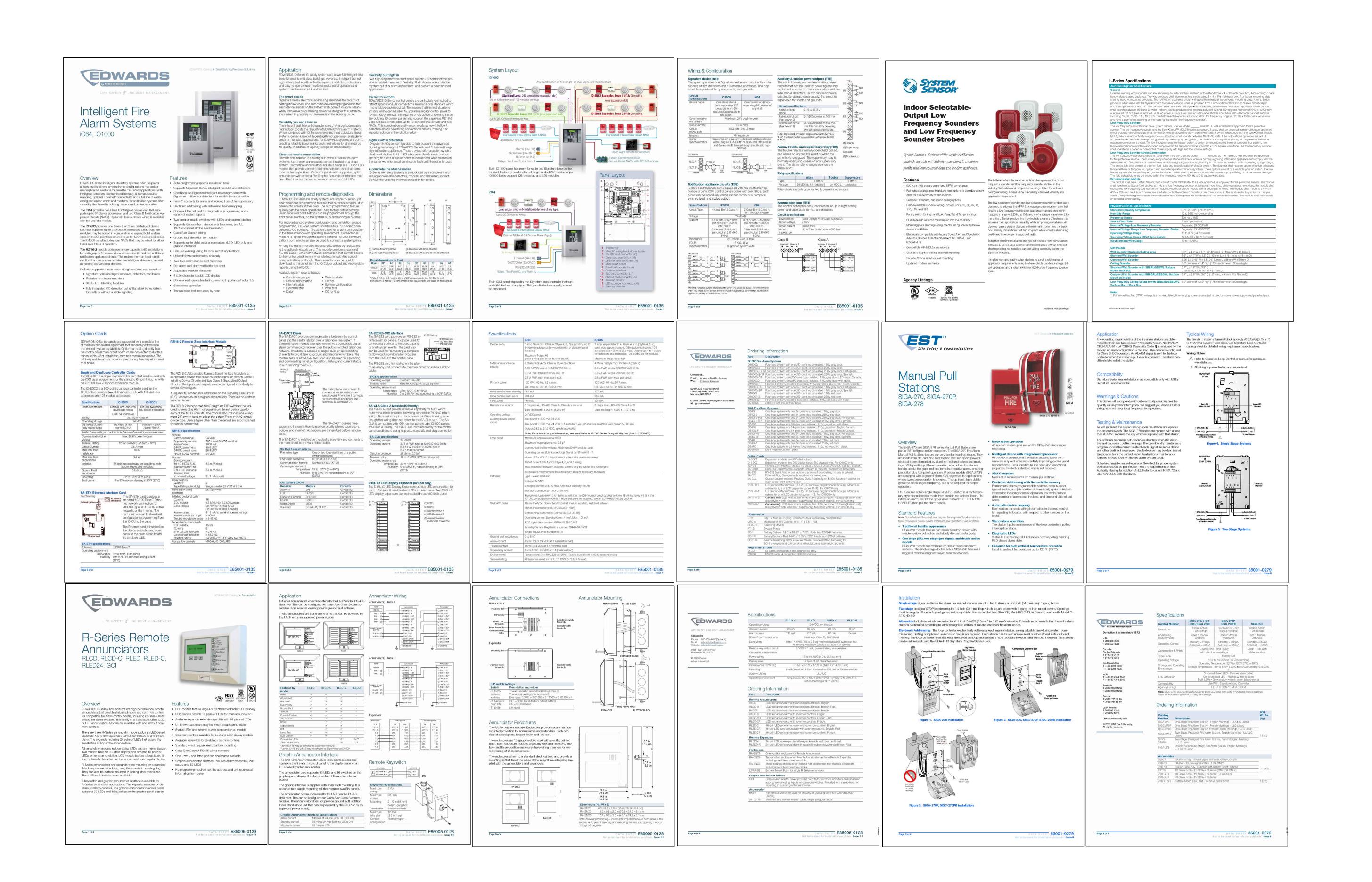
WITH THE WORK.

ROJECT:

SYSTEM DESIGNED BY: RB2024-5 8-19-2025 CHECKED BY: AS SHOWN DRAWING NUMBER:

E-3.0

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Fax: 215-755-9319

RONALD HEIGLER, PE NJ PROFESSIONAL ENGINEER No. GE 44485

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

### OF RUNNEMEDI LIAMS BUILDIN DDITION

08078 SSEY

2 BROADWAY RUNNEMEDE, NEW JER CAMDEN COUNTY, NEV

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RMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES ID EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISIONS

D. DESCRIPTION DATE

AWING TITLE:

FIRE ALARM DEVICE INFO

JOB NO:

RB2024-5

DATE:

B-19-2025

SCALE:

AS SHOWN

DRAWN BY:

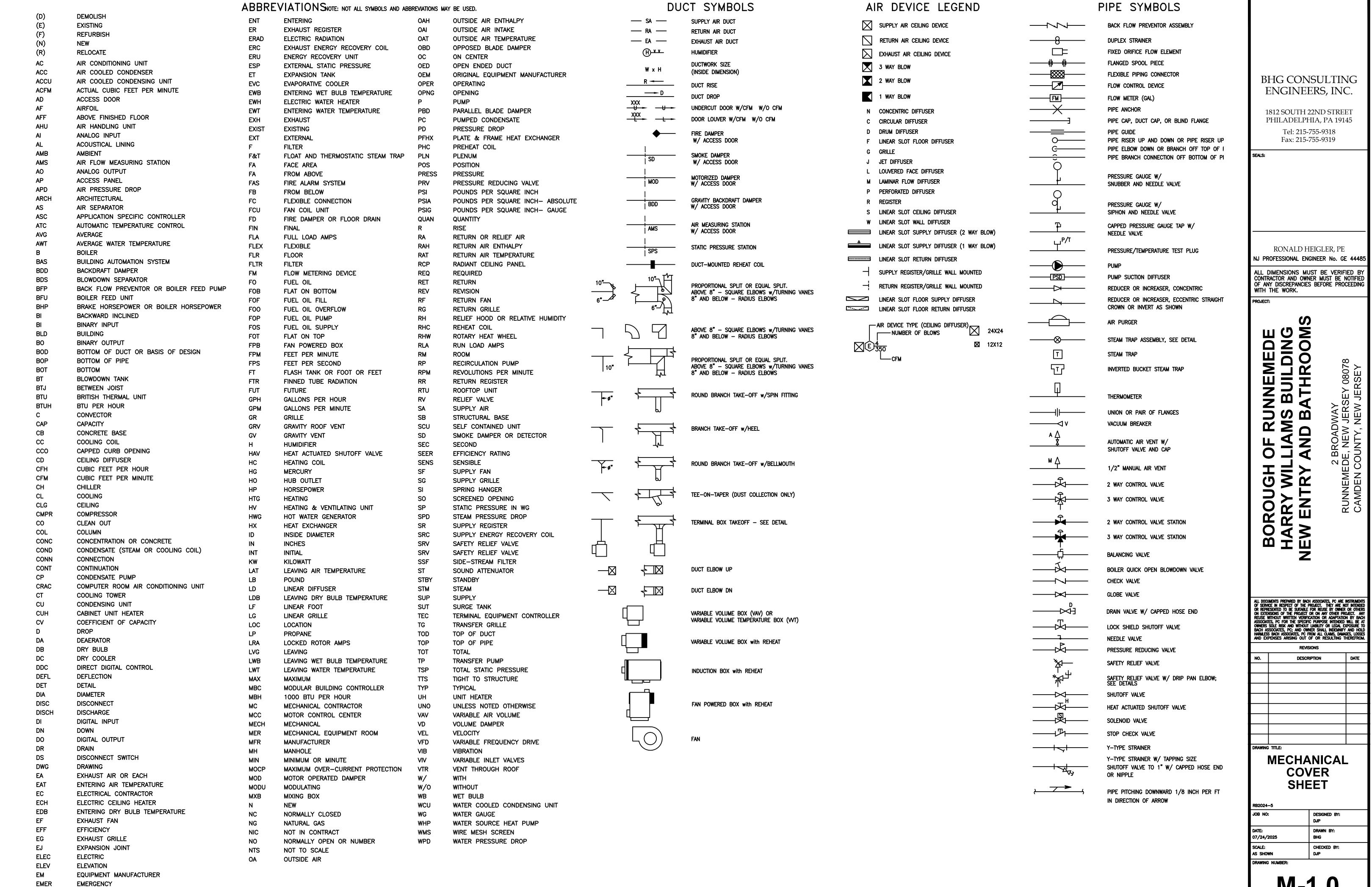
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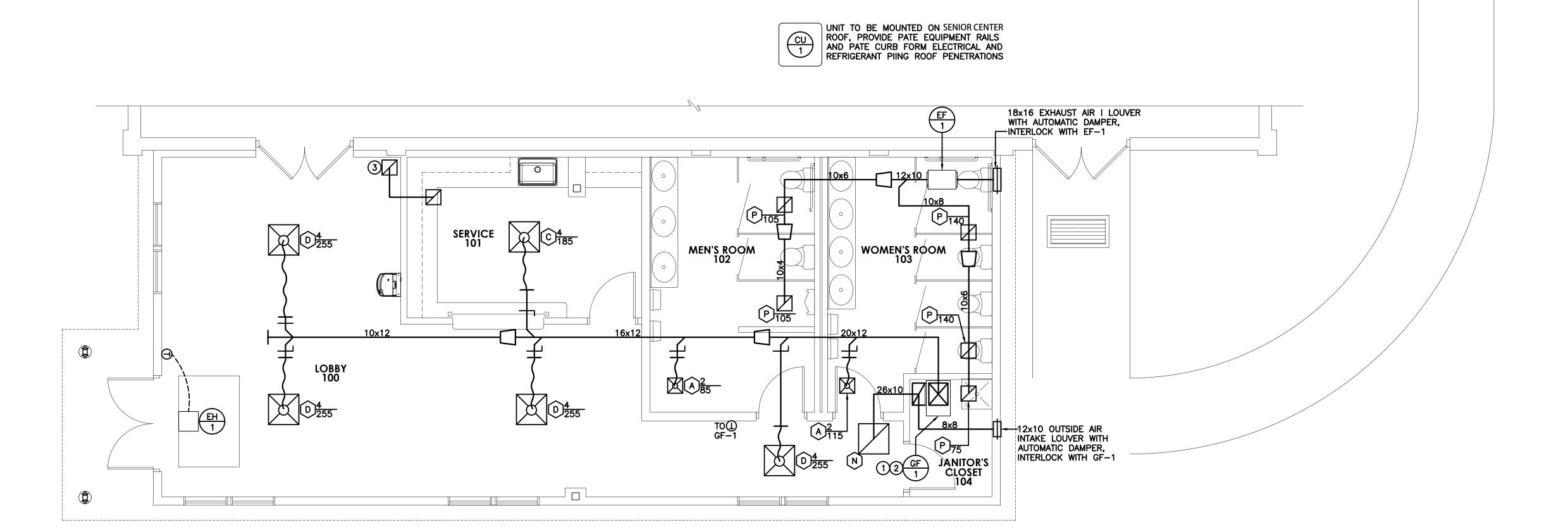
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### MECHANICAL SHEET NOTES:

- 1 VENT AND AIR INTAKE UP THRU ROOF WITH FACTORY SUPPLIED CONCENTRIC TERMINATION KIT. MAXIMUM LENGTH AND MINIMUM SIZE PER MANUFACTURES REQUIREMENTS
- (2) CONDENSATE LINE FROM UNIT TO DRAIN. LINE TO BE FULL SIZE OF UNIT OPENING. DISCHARGE TO GRADE WITH SPLASH BLOCK WHERE DRAIN IS NOT PROVIDED.
- 3 PROVIDE 14x10 ACOUSTICALLY LINED TRANSFER DUCT WITH 90 DEGREE ELBOW AND (2)12x12 TRANSFER GRILLES.

BHG CONSULTING ENGINEERS, INC.

1812 SOUTH 22ND STREET PHILADELPHIA, PA 19145 Tel: 215-755-9318 Fax: 215-755-9319

RONALD HEIGLER, PE NJ PROFESSIONAL ENGINEER No. GE 44485

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RUNNEMEDE AMS BUILDING D BATHROOMS

BOROUGH HARRY WIL

REVISIONS DESCRIPTION DATE

**MECHANICAL FLOOR PLAN** 

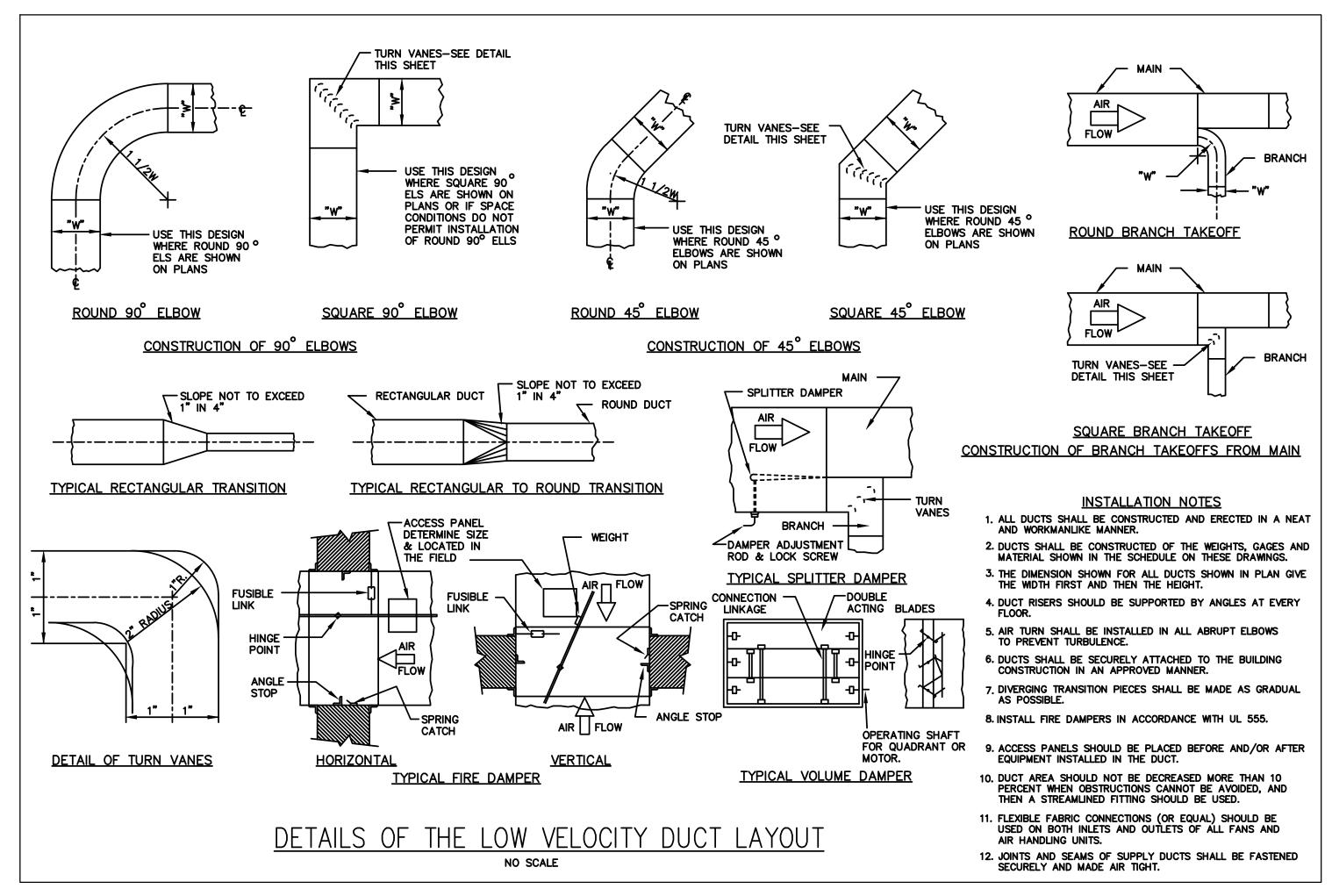
JOB NO: DESIGNED BY: DRAWN BY: 07/24/2025 CHECKED BY: AS SHOWN DRAWING NUMBER:

			,	AIR DE\	/ICE SCH	EDULE
NO.	NECK SIZE	FACE SIZE	CFM RANGE	TYPE	MANUFACTURER MODEL NUMBER	REMARKS
A	6 <b>"</b> ø	12x12	0-137	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
B	6 <b>"</b> ø	24x24	0–137	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
©	8 <b>"</b> ø	24x24	138-244	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
(a)	10"ø	24x24	245-327	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
(L)	12x12	24x48	0-365	RETURN AIR GRILLE	PRICE OR EQUAL	
(M)	24x12	24x12	366-720	RETURN AIR GRILLE	PRICE OR EQUAL	
(N)	24x24	24x24	721-1440	RETURN AIR GRILLE	PRICE OR EQUAL	
(P)	12x12	24x48	0-365	RETURN AIR GRILLE	PRICE OR EQUAL	

							ELEC	TRICAL		MANUFACTURER	
NO.	CFM	S.P.	RPM	H.P.	TYPE	DRIVE	VOLTS	PHASE	HERTZ	MODEL NUMBER	NOTES
1	565	0.50"	1742	1/4	INLINE CENTRIFUGAL	BELT	115	1	60	GREENHECK BSQ-80-4	12

	COOLING		CVT	<b>-</b>	HEAT	ΓING	0.4	ELEC	TRICAL		MANUFACTURER	NOTES.	
10.	CAP'Y TONS	CFM	EXT. S.P.	FAN H.P.	INPUT CFH	OUTPUT MBH	O.A. CFM	VOLTS	PHASE	HERTZ	MODEL NUMBER	NOTES	
1	3.5	1400	0.50	3/4	39.0	37.8 58.3	170	115	1	60	TRANE INDOOR-S9X2B060 OUTDOOR-5TTR3042	12345	

ELECTRIC HEATER SCHEDULE									
	HEATING		ELEC	TRICAL		MANUFACTURER			
NO.	CAPACITY KW	TYPE	VOLTS	PHASE	HERTZ	MODEL NUMBER	REMARKS		
1	4.0	CLG. HEATER	208	1	60	QMARK SERIES FFCH	1		



DUCT CONSTRUCTION MINIMUM SHEET METAL THICKNESSES							
RECTANGULAR DUCTS							
MAXIMUM SIZE STEEL (INCHES) (MINIMUM THICKNES							
THROUGH 12 0.022 INCH (26 13 THROUGH 30 0.028 INCH (24 31 THROUGH 54 0.034 INCH (22 55 THROUGH 84 0.040 INCH (20 0VER 84 0.052 INCH (18		F GAGE, GALV.) 2 GAGE, GALV.) 3 GAGE, GALV.)					
ROUND DUCT	ΓS						
	SPI	RAL SEAM DUCT	LONGITUDINAL SEA	M DUCT	FITTINGS		
MAXIMUM SIZE (INCHES)	(MINIMUN	STEEL M THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS	, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)		
THROUGH 12 13 THROUGH 18 19 THROUGH 28 29 THROUGH 36 37 THROUGH 52	0.019 0.022 0.028 0.034 0.040	INCH (26 GAGE, GALV.) INCH (24 GAGE, GALV.)	0.028 INCH (24 GA		0.022 INCH (26 GAGE, GALV.) 0.028 INCH (24 GAGE, GALV.) 0.034 INCH (22 GAGE, GALV.) 0.040 INCH (20 GAGE, GALV.) 0.052 INCH (18 GAGE, GALV.)		

DUCT SYSTEM	SMACNA PRESSURE CLASS	SMACNA SEALING CLASS	DUCT MATERIAL	JOINING METHOD	INSUL TYPE & THICKNESS
SUPPLY	+ 1 INCH	С	GALV. STL.	DUCTMATE	1.5" BATT
RETURN	- 1 INCH	С	GALV. STL.	DUCTMATE	1.5" BATT
GENERAL EXHAUST	- 1 INCH	С	GALV. STL.	DUCTMATE	

**BHG CONSULTING** ENGINEERS, INC.

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RONALD HEIGLER, PE NJ PROFESSIONAL ENGINEER No. GE 44485

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

RUNNEMEDE MS BUILDING D BATHROOMS AND

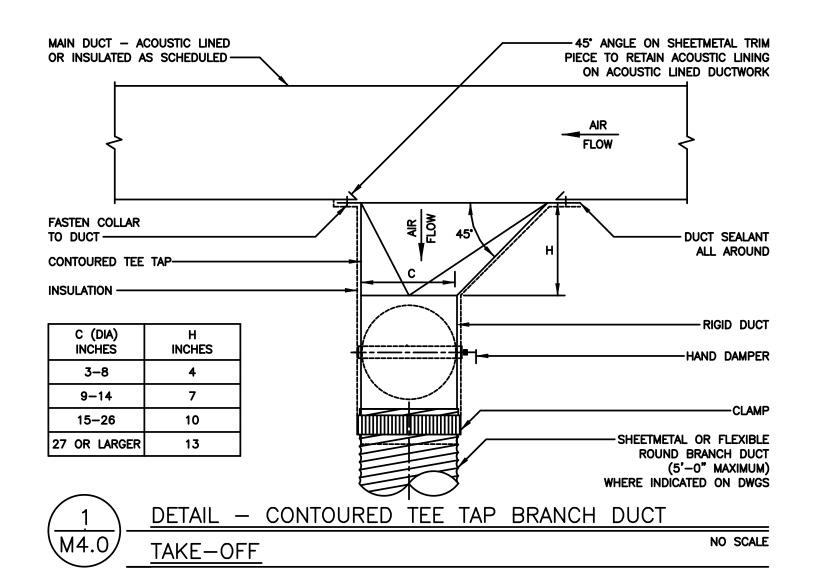
BOROUGH HARRY WIL

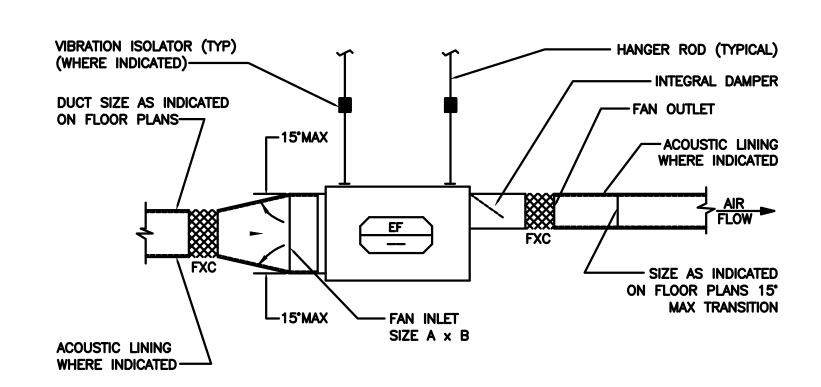
ASSOCIATES, PC FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO BACH ASSOCIATES, PC; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS BACH ASSOCIATES, PC FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.							
	REVISIONS						
NO.	DESCRIPTION	DATE					

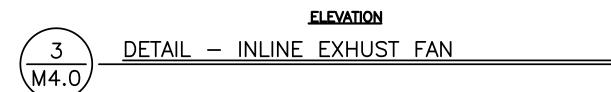
**MECHANICAL SCHEDULES** 

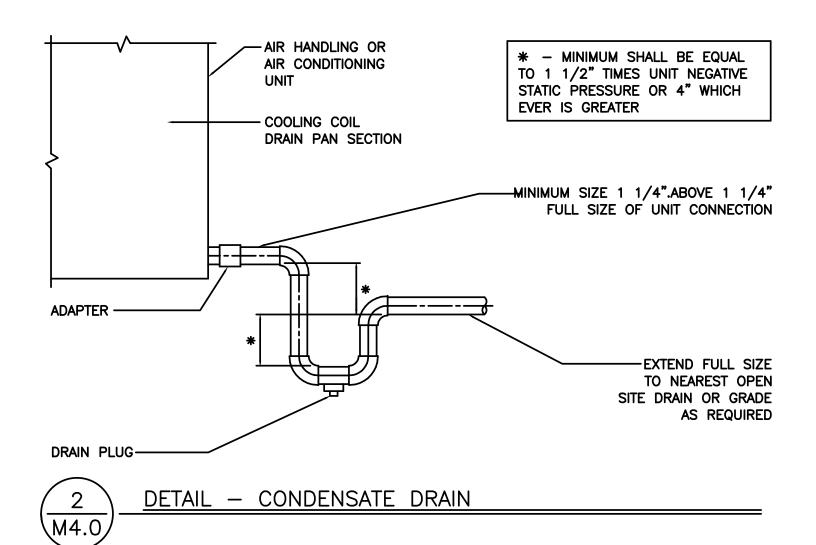
JOB NO: DESIGNED BY: DATE: 07/24/2025 SCALE: AS SHOWN CHECKED BY: DRAWING NUMBER:

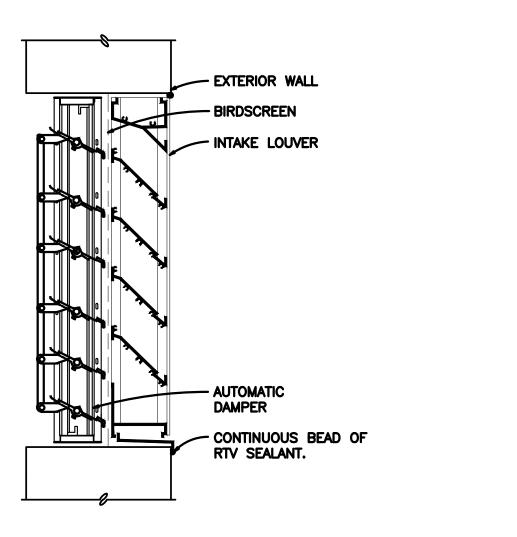
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PROJECT:

R

JNNEMEDE S BUILDING SATHROOMS BOROUGH HARRY WIL

REVISIONS DESCRIPTION

**MECHANICAL DETAIL** SHEET

JOB NO: DESIGNED BY: DATE: 07/24/2025 SCALE: AS SHOWN CHECKED BY:

DRAWING NUMBER: M-4.0

### PLUMBING ABBREVIATIONS ACCESS DOOR ||#| INSTANTANEOUS WATER HEATER ABOVE CEILING LEVEL JOCKEY PUMP AREA DRAIN (EXPOSED TO RAIN) KITCHEN SINK (2 COMPARTMENT) ABOVE FINISHED FLOOR KS OR K KITCHEN SINK ABOVE FIXTURE RIM LAV OR L LAVATORY ABOVE ROOF LEVEL $\bowtie$ LOW PRESSURE **BELOW CEILING LEVEL** LEVEL SENSOR BELOW COUNTER TOP BELOW FLOOR LEVEL LAUNDRY WASHER MACHINE METER **BACKFLOW PREVENTER** MECHANICAL BELOW JOISTS MANHOLE **BOOSTER PUMP MEDIUM PRESSURE** BETWEEN JOISTS MOP RECEPTOR BOILER (STEAM ONLY) MIXING VALVE BACKWATER VALVE C OR COND CONDENSATE NORTH NATURAL GAS CONDENSATE DRAIN OXYGEN CHEMICAL FEED **OVERHEAD** CHWS/R CHILLED WATER SUPPLY/RETURN OVERFLOW CIRCULATOR PUMP PRESSURE INDICATOR CLINIC SINK PRESSURE REDUCING VALVE DCW/HW DOMESTIC COLD WATER/HOT WATER (POTABLE) PURE WATER DOMESTIC HOT WATER SUPPLY/RETURN ROOF DRAIN <del>-</del>0-DECK DRAIN RADIANT HEATER **DRINKING FOUNTAIN** DRAIN FIXTURE UNIT REVERSE OSMOSIS DUPLEX PUMP RUNNING TRAP WITH CLEANOUT DOOR RELIEF VALVE DSTP DRY STANDPIPE RAIN WATER CONDUCTOR DRY VENT SOUTH OR STEAM DRY VENT CONNECTION (ABOVE FIXTURE RIM LEVEL) SANITARY/WASTE DOMESTIC WATER HEATER ----- COLD WATER (POTABLE) SQUARE FOOT DISH WASHER MACHINE SFU SUPPLY FIXTURE UNIT ————— DOMESTIC HOT WATER EAST SH OR S SHOWER ——140°F—— 140°F DOMESTIC HOT WATER EXISTING SOLENOID VALVE ELEVATION (STRUCTURAL HEIGHT) SUMP PUMP OR SEWAGE PUMP ——— SANITARY SEWER – UNDER GROUND/SLAB/FLOOR EYE WASH SERVICE SINK OR LAUNDRY SINK OR STAINLESS STEEL ELECTRIC WATER COOLER ——— S ———— STORM WATER **EXPANSION TANK** ---- VENT PIPING FRESH AIR INTAKE SAFETY VALVE FLOOR CLEANOUT — F — FIRE PROTECTION PIPE FILTERED COLD WATER TRENCH DRAIN OR THERMO DYNAMIC — G — GAS PIPE THERMAL EXPANSION ABSORBER FLOOR DRAIN (NOT EXPOSED TO RAIN) TEMPERATURE INDICATOR FIRE HOSE CONNECTION FUNNEL DRAIN TRAP PRIMER TEMPERATURE SENSOR FIRE PUMP FLOOR SINK TUB OR TRAP FIRE WATER **UNDERGROUND** FOOD WASTE GRINDER FLOAT & THERMOSTATIC VACUUM FIXTURE UNIT VACUUM BREAKER GARDEN HOSE CONNECTION VENT RISER (DRY VENT) GREASE INTERCEPTOR GUTTER DRAIN VENT STACK GLASS WASHER MACHINE VENT THROUGH ROOF HORIZONTAL CLEANOUT WEST HAIR INTERCEPTOR WATER BOOSTER PUMP HIGH PRESSURE HAND SINK WALL CLEANOUT HOT WATER GENERATOR (HYDRONIC SYSTEM) WATER HAMMER ARRESTOR HOT WATER SUPPLY/RETURN WHIRLPOOL (HYDRONIC SYSTEM) WET STANDPIPE INVERTED BUCKET YOKE VENT IRON PIPE SIZE

UMBING	LEGEND	
--------	--------	--

BALL VALVE

GLOBE VALVE

BALANCING VALVE

(SPRING LOADED)

(PILOT TYPE)

FUNNEL DRAIN

ROOF DRAIN

TEE NEAR FLOW

TEE FAR FLOW

PLUG VALVE

BACKFLOW PREVENTER

GARDEN HOSE/WASHDOWN

OR FIRE DEP. HOSE CONNECTION

PIPE CLEANOUT (HORIZONTAL OR WALL)

FLOOR DRAIN, AREA DRAIN OR FLOOR SINK

KITCHEN SINK WITH DISHWASHER MACHINE

TARGET POINTING TO CONNECTION

THE EXTENT OF DEMOLITION

BETWEEN EXISTING AND NEW OR TO

PIPE CLEANOUT (GRADE OR FLOOR)

REDUCER

TEMPERATURE INDICATOR

PRESSURE INDICATOR

VALVE BOX AND DRAIN

PRESSURE REDUCING VALVE

PRESSURE REDUCING VALVE

FLOOR/DECK OR AREA DRAIN

90 DEG. ELBOW FAR FLOW

90 DEG. ELBOW NEAR FLOW

	PLUMBING NOTES
BUTTERFLY VALVE	1. THE PRIORITY OF ILLUSTRATED PIPING ON PLANS IS TO SHOW CLEARLY THE SERVICE FRO
ANGLE GLOBE VALVE	POINT TO ANOTHER WITH MINIMUM OR NO OBSTRUCTION BY THE BACKGROUND. PHYSICAL PIPE RUNS ARE INSTALLED INSIDE WALLS, ABOVE CEILING OR WITHIN PIPE CHASES.
SAFETY OR RELIEF VALVE	ARCHITECT SHALL REVIEW AND APPROVE THE FINAL LOCATION OF PLUMBING COMPONENTS WHERE THEY AFFECT ARCHITECTURAL FINISHES.
GATE VALVE OR VALVE IN GENERAL	2 LINEESS THE INSTALLATION IS DIMENSIONED DRAWINGS ARE DIAGRAMMATIC AND INDICATING

2. UNLESS THE INSTALLATION IS DIMENSIONED, DRAWINGS ARE DIAGRAMMATIC AND INDICATING THE GENERAL ARRANGEMENT OF PIPING NETWORK TO BE PERFORMED. ALL MINOR DETAILS ARE NOT SHOWN ON PLANS OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF ALL SYSTEMS, SHALL BE PROVIDED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGES TO THE OWNER.

3. DOMESTIC WATER SERVICE TO FAUCETS OR EQUIPMENT (COLD AND HOT) SHALL BE 1/2" PIPE SIZE UNLESS NOTED OTHERWISE. ALL FIXTURES AND EQUIPMENT SHALL HAVE ONE FULL PORT AND PIPE SIZE SHUTOFF VALVE PER PIPE CONNECTION FOR MAINTENANCE PURPOSE. ALL DOMESTIC SERVICES SHALL BE INSULATED.

4. PLUMBING CONTRACTOR SHALL CHECK AND VERIFY ALL MEASUREMENTS, ILLUSTRATED PIPING LOCATIONS AND AREAS AFFECTED BY STRUCTURAL, MECHANICAL AND ELECTRICAL CONDITIONS PRIOR TO PRECEDING WITH DEMOLITION AND/OR NEW WORK. ANY CONFLICT OR DISCREPANCY BETWEEN SUBMITTED DRAWINGS AND FIELD CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEERS WITHOUT DELAY.

5. AVOID INSTALLING WATER SERVICE PIPE IN EXTERNAL WALL DUE TO FREEZING CONDITION. (ELECTRICAL HEAT TRACE FOR PIPING IS EXPENSIVE AND NOT RELIABLE, SHALL BE

6. INSULATION ON WATER PIPE DOES NOT PREVENT FREEZING, IT ONLY EXTENDS THE SOLIDIFICATION TIME. WHERE WATER SERVICE IS NEAR EXTERIOR WALL, PROVIDE STUDDED PARTITION FLUSH TO THE EXTERIOR WALL. APPLY INSULATION ON THE EXTERIOR WALL SIDE OF THE PARTITION WITH NO INSULATION ON THE ROOM SIDE.

MINIMUM 3'-0" COVER.

- FROM ONE CALLY THE

- CONSIDERED ONLY AS A LAST RESOURCE.)
- 7. ALL SANITARY PIPING LAID BELOW SURFACE OF FREEZING TEMPERATURE SHALL HAVE

### **PLUMBING SHEET NOTES:**

- (1) EXISTING DOMESTIC WATER METER AND BACKFLOW PREVENTER AS REQUIRED BY LOCAL WATER COMPANY. CONNECT NEW WATER LINE TO EXISTING METER
- (2) PROVIDE TRAP GUARDS AS MANUFACTURED BY PROVENT FOR ALL FLOOR DRAINS, UNLESS NOTED OTHERWISE.
- 3 NEW DOMESTIC WATER LINE TO MAIN, FOR CONTINUATION AND EXACT LOCATION SEE ENGINEER SITE PLAN. MAINTAIN A MINIMUM OF 3'-0" COVER.
- AIR INTAKE AND VENT FROM WATER HEATER, UP THRU FLOORS AND ROOF WITH FACTORY SUPPLIED TERMINATION KIT, MAXIMUM LENTGH AND MINIMUM SIZE PER MANUFACTURES REQUIREMENTS.
- (5) NEW 4" SANITARY LATERAL, FOR CONTINUATION AND EXACT LOCATION, SEE ENGINEER SITE PLAN. MAINTAIN A MINIMUM OF 3'-0" COVER.
- (6) EXISTING GAS METER PER PSE&G REQUIREMENTS. ALL GAS PIPING PER PSE&G AND NFGC REQUIREMENTS. CONNECT NEW GAS LINE TO EXISTING METER.
- (7) GAS LINE TO GAS FIRED EQUIPMENT WITH 6" SEDIMENT LEG AND GAS SHUT OFF VALVE. GAS LINE SIZE AS SHOWN ON PLAN.
- (8) NEW GAS SERVICE, CONNECT TO MAIN, FOR CONTIUATION AND EXACT LOCATION SEE ENGINEER SITE PLAN. MAINTAIN A MINIMUM OF 3'-0" COVER.
- 9 34"CW LINE DOWN TO WALL HYDRANT WITH SHUT-OFF VALVE.

PLUMBING FIXTURE CONNECTION SCHEDULE							
FIXTURE	ADDDEV	FIX. UNIT		CONNECT	ION SIZES		DEMARKS
TYPE	ABBREV	VALUE	(TRAP) SAN	VENT	нพ	CW	REMARKS
WATER CLOSET	wc	4	3	2		1/2	
LAVATORY	LAV	2	1-1/2	1-1/4	1/2	1/2	
FLOOR DRAIN	FD	2	3	2	_	-	
INDIRECT WASTE	IDW	5	3	2	-	-	JOSAM, MODEL 49320A-LF SERIES, 12"SQ TOP, 6" DEEP W/DRAINAGE FLANGE
URINAL	UR	4	3	2	_	1	
ELECTRIC WATER COOLER	EWC	.5	1-1/2	1-1/4	-	1/2	

### GAS FIRED DOMESTIC WATER HEATER SCHEDULE SYMBOL (GWH) STORAGE RECOVERY GAS INPUT **MANUFACTURE** CAPACITY REMARKKS AT 100°F AND MODEL **GALLONS GALLONS** NUMBER 12345 BRADFORD WHITE LG2DV50H503N

1 PROVIDE AIR INLET AND VENT, MAXIMUM SIZE AND MINIMUM LENGTH PER MANUFACTURES REQUIREMENTS.

(2) PROVIDE P AND T RELIEF VALVE, PIPE TO FLOOR DRAIN

(3) WITH EXPANSION TANK, SEE DETAIL

[4] PROVIDE DRAIN PAN BELOW WATER HEATER, SEE DETAIL ON SHEET P-4.0

[5] PROVIDE A MINIMUM OF 4 FEET IN DEVELOPED LENGTH OF COPPER TUBING CONNECTIONS TO WATER HEATERS INLET AND OUTLET

ELECTRIC DOMESTIC WATER HEATER SCHEDULE								
NO.	STORAGE CAPACITY GALLONS	RECOVERY AT 90°F GALLONS	ELECTRIC HEATING CAPY. KW	MANUFACTURE AND MODEL NUMBER	REMARKKS			
1	NA	NA	2.4	BRADFORD WHITE TEF024V120	1234			

OZO 百Ŏ A SEL UGH / WIL RRY / ENT 80 0

**BHG CONSULTING** 

1812 SOUTH 22ND STREET

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RONALD HEIGLER, PE

NJ PROFESSIONAL ENGINEER No. GE 44485

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WITH THE WORK.

PROJECT:

ENGINEERS, INC

<b>)</b> .	DESCRIPTION	DATE

**PLUMBING COVER** SHEET

B2U24-3	
OB NO:	DESIGNED BY:
ATE:	DRAWN BY:
7/24/2025	BHG
CALE:	CHECKED BY:
S SHOWN	DJP

DRAWING NUMBER:

P-1.0

PIPE SPECIFICATION							
SYSTEM	MATERIAL	JOINTS	NOTES	INSULATION TYPE	INSULATION THICKNESS	NOTES	
DOMESTIC WATER ABOVE GRADE	TYPE L COPPER	SOLDERED OR THREADED		RIGID FIBERGLASS	1"	PVC FITTING COVERS. EXPOSED PIPING 24 GAGE SS JACKETED INCLUDING FITTINGS.	
WASTE, DRAIN & VENT BELOW GRADE	PVC	SOLVENT WELD					
WASTE & DRAIN ABOVE GRADE 2" AND SMALLER	PVC	SOLVENT WELD					
WASTE & DRAIN ABOVE GRADE 2½" AND LARGER	PVC	SOLVENT WELD					
DRY VENT PIPE 2 AND SMALLER ABOVE GRADE	PVC	SOLVENT WELD					
DRY VENT PIPE 2½" AND LARGER ABOVE GRADE	PVC	SOLVENT WELD					

YOKE VENT RISER

ZONE VALVE

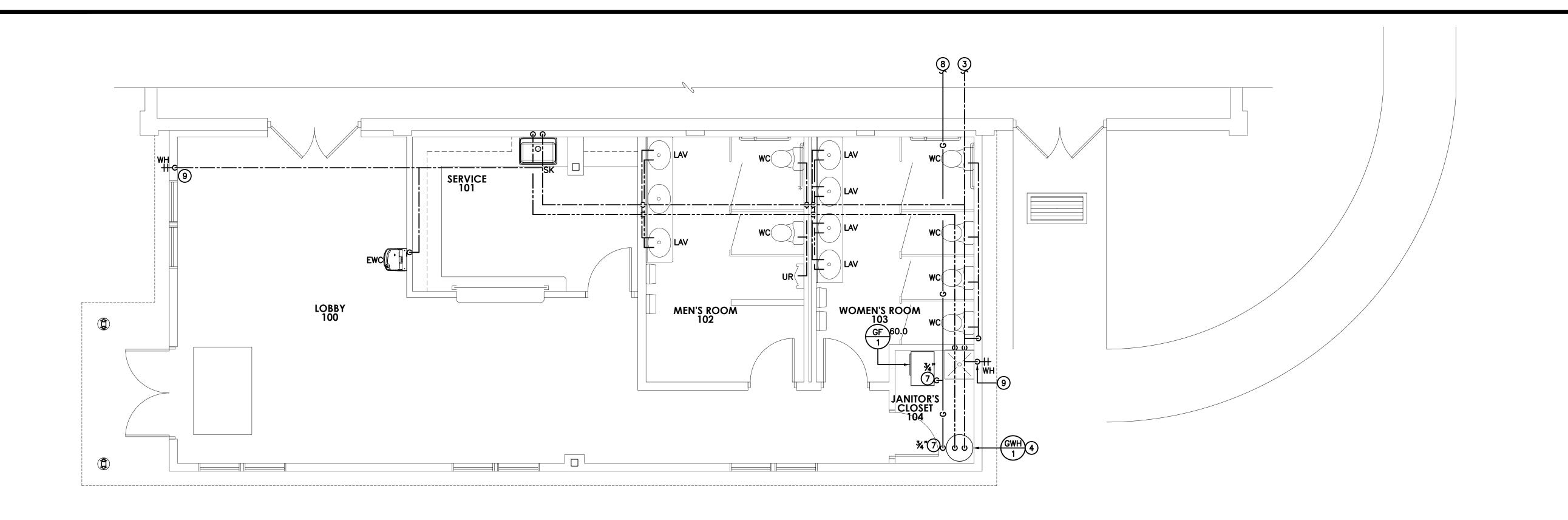
[3] PROVIDE A MINIMUM OF 4 FEET IN DEVELOPED LENGTH OF COPPER TUBING CONNECTIONS TO WATER HEATERS

ILZJERUVIDE DRAIN FAN BELOW WATER HEATER, FACTURT SUPPLIED

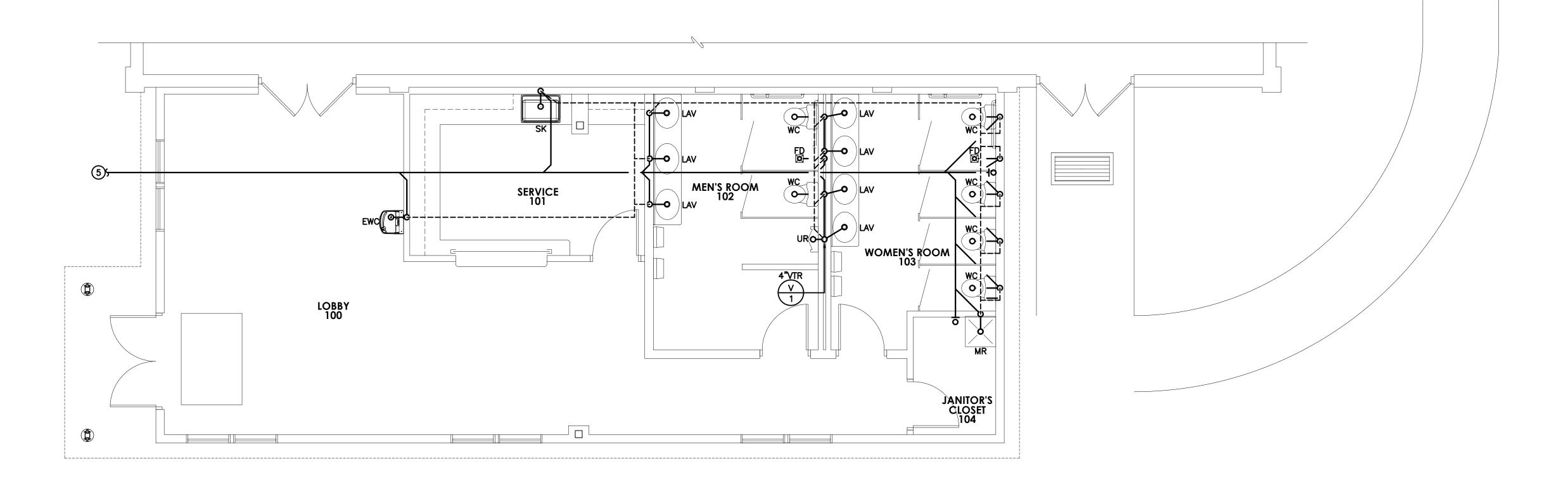
ISLAND KITCHEN SINK

INLET AND OUTLET

INDIRECT WASTE



### P-2.0 PLUMBING FLOOR PLAN (WATER & GAS)



P-2.0 PLUMBING FLOOR PLAN (WASTE & VENT)

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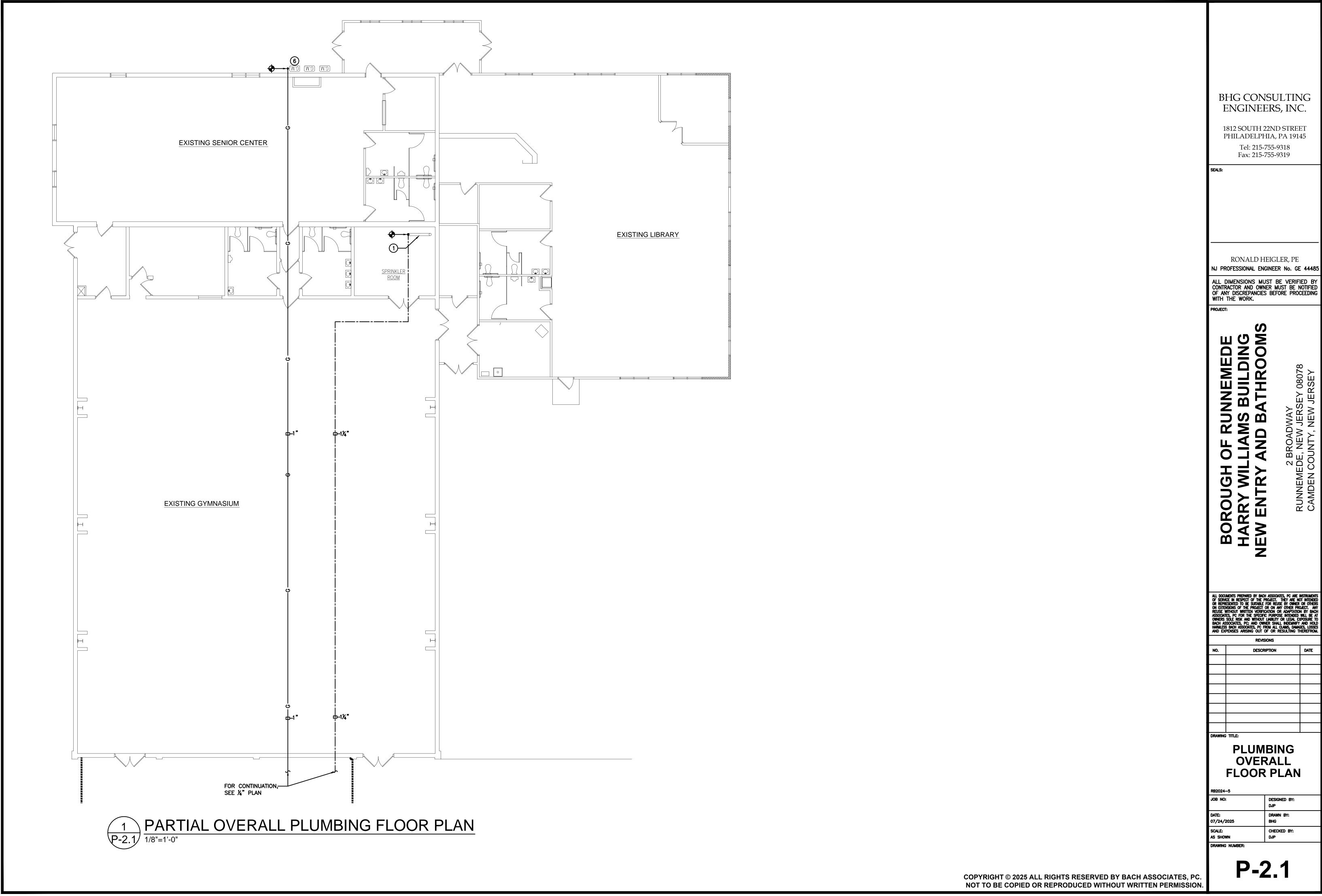
RONALD HEIGLER, PE

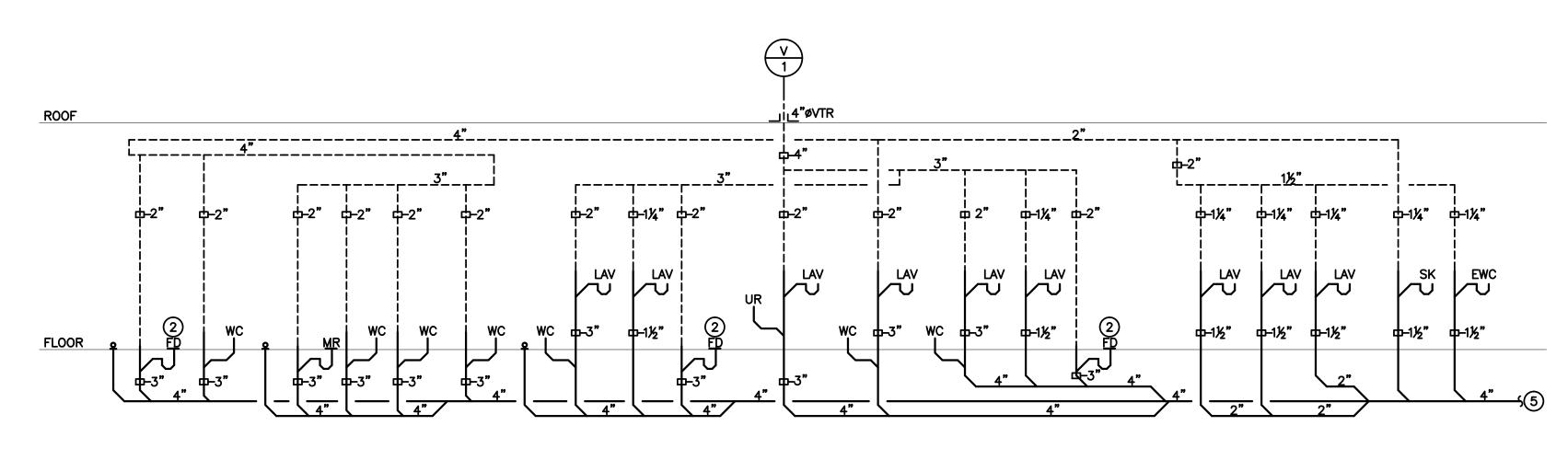
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PLUMBING FLOOR PLANS

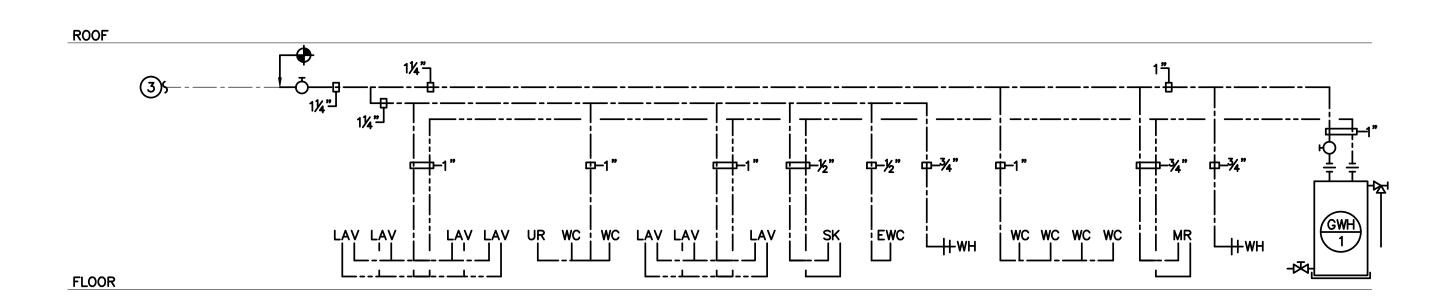
DATE: 07/24/2025 SCALE: AS SHOWN

P-2.0





1 SANITARY RISER DIAGRAM
1/4"=1'-0"



2 DOMESTIC WATER RISER DIAGRAM P-3.0 1/4"=1'-0"

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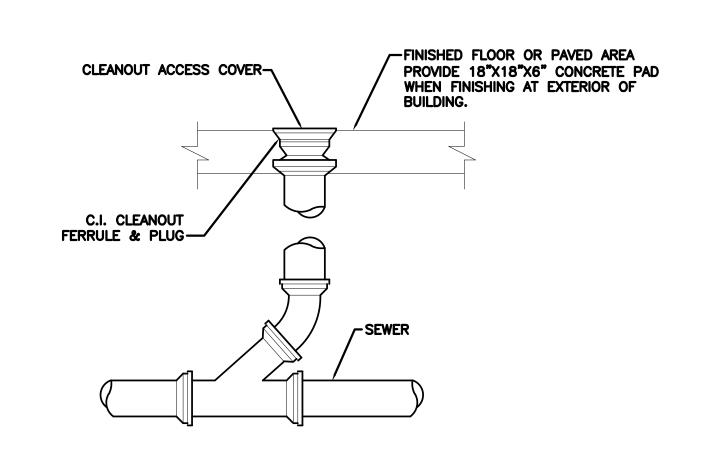
BOROUGH HARRY WIL

DESCRIPTION

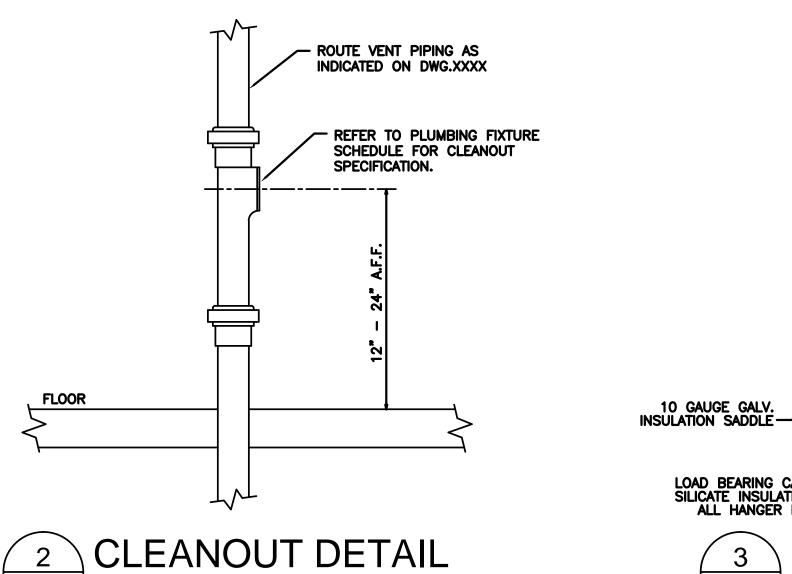
PLUMBING RISER DIAGRAMS

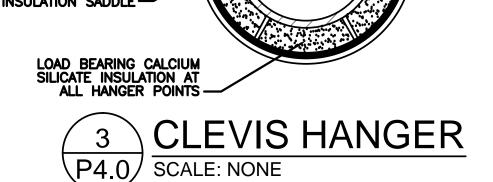
DESIGNED BY: DATE: 07/24/2025 SCALE: AS SHOWN

P-3.0



### CLEANOUT DETAIL P4.0 SCALE: NONE

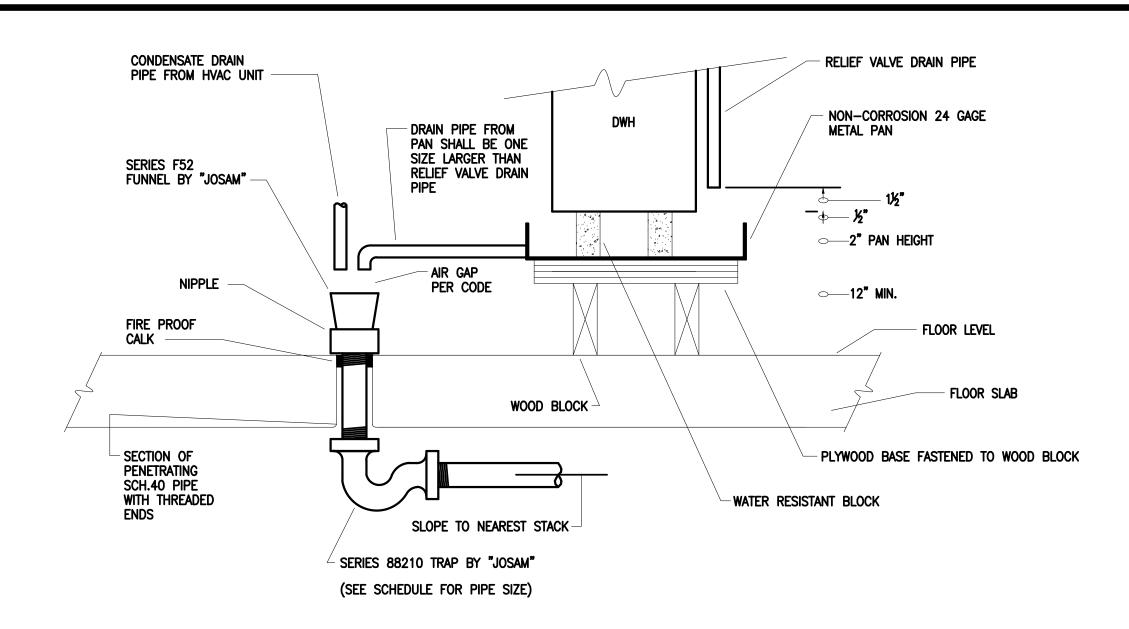




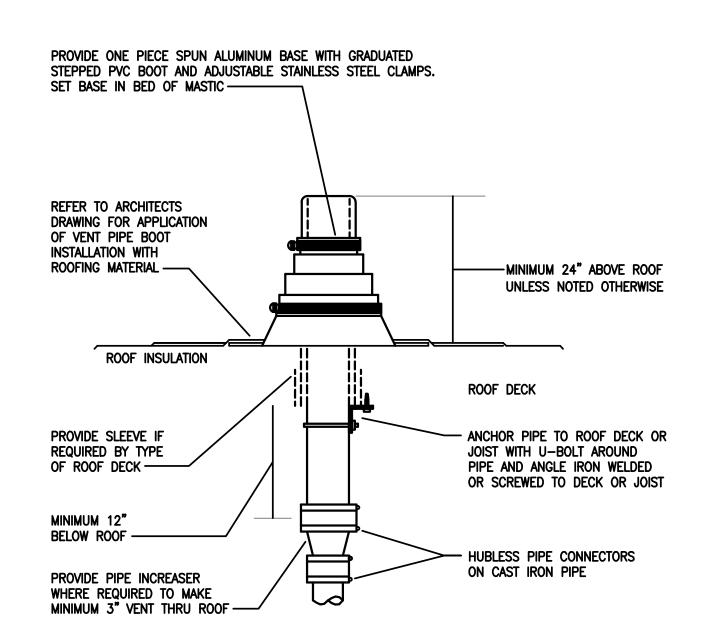
VIBRATION ISOLATORS

- INSULATION

WHERE REQUIRED

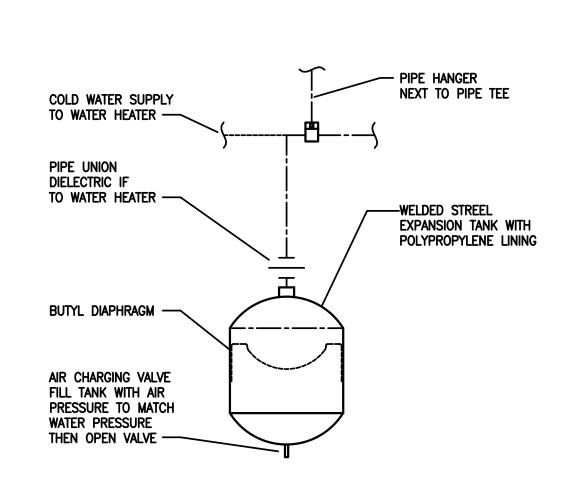


GWH PAN DISCHARGE TO FUNNEL DRAIN P4.0 SCALE: NONE



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR A MINIMUM OF 20 FEET HORIZONTAL (UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION) OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE AND ONE FOOT FROM ANY VERTICAL SURFACE PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. VERIFY FLASHING AND COUNTERFLASHING WITH ROOFING CONTRACTOR.

DETAIL - VENT THRU ROOF (VTR) \ P4.0 SCALE: NONE



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED.

**DETAIL - EXPANSION INSTALLATION** 

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### **BHG CONSULTING** ENGINEERS, INC.

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Fax: 215-755-9319

RONALD HEIGLER, PE NJ PROFESSIONAL ENGINEER No. GE 44485

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

RUNNEMEDE MS BUILDING D BATHROOMS

BOROUGH HARRY WIL

REVISIONS					
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PLUMBING **DETAILS** SHEET

JOB NO: DESIGNED BY: DRAWN BY: 07/24/2025 CHECKED BY: AS SHOWN DRAWING NUMBER: