TS TITLE SHEET APPENDIX "B"

LIFE SAFETY & OVERALL FLOOR PLAN

A2 NEW ADDITION FLOOR PLAN - AND KEY PLAN

A3 PARTIAL LARGE SCALE PLANS

A4 NORTH & SOUTH BUILDING ELEVATIONS

A5 WEST BUILDING ELEVATION AND BUILDING SECTION

A6 WALL SECTIONS

A7 WALL SECTIONS

A8 WALL SECTIONS

A9 MISCELLANEOUS SECTIONS/DETAILS

A10 DOOR/FINISH SCHEDULES DETAILS A11 ALUMINUM WINDOW AND DOOR DETAILS

A12 ROOF PLAN, NOTES AND DETAILS

A13 ROOF NOTES AND DETAILS C-0 COVER SHEET, SPECIFICATION AND NOTES

C-1 EXISTING CONDITIONS & DEMOLITION

C-2 SITE PLAN

C-3 GRADING AND STORMWATER PLAN

C-4 STORMWATER PROFILES

C-5 UTIILITY PLAN

C-6 EROSION CONTROL PHASE 1

C-7 EROSION CONTROL PHASE 2

C-8 OFFSITE GRADING & EROSION PLAN

C-9 DETAILS C-10 DETAILS

L-1 LANDSCAPE PLAN

GENERAL NOTES REFER TO CIVIL DRAWINGS FOR ALL SITE WORK.

REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL WORK. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL WORK FOR PME SCOPE.

CONTRACTOR SHALL VERIFY NEW CONSTRUCTION LOCATIONS WITH OWNER, CIVIL ENGINEER AND ARCHITECT PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS. CONSULT

ARCHITECT FOR ANY CONFLICTS. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE DELIVERING OF MATERIALS AND THE WORK OF ALL SUBCONTRACTORS.

ALL UL DESIGN NUMBERS REQUIRED ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE UNDERWRITERS LABORATORY FIRE RESISTANCE DIRECTORY.

THE DESIGN INTENT OF THE CONSTRUCTION DRAWINGS AND PROJECT MANUAL IS TO COMPLY WITH ALL BUILDING CODES OR ORDINANCES THAT HAVE JURISDICTION OVER THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL STATE/LOCAL

CODES AND ORDINANCES DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR IS TO CONSULT WITH OWNER/ARCHITECT REGARDING ANY PORTIONS OF THE DOCUMENTS THAT DO NOT COMPLY WITH SUCH CODES OR ORDINANCES.

CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL PENETRATIONS IN ALL WALLS AND SPECIFICALLY RATED WALL SYSTEMS TO MEET SPECIFIED UL RATING REQUIREMENTS

REFER TO FINISH SCHEDULE AND ASSOCIATED NOTES FOR ADDITIONAL INFORMATION PERTAINING TO FINISHES NOT SHOWN ON THIS AND OTHER DRAWING SHEETS. CONTRACTOR TO COORDINATE ALL PARTITION LOCATIONS WITH ALL OTHER TRADES. ANY DISCREPANCIES TO BE BROUGHT TO THE ARCHITECT/OWNER'S ATTENTION

□ NO 🛛 YES

13. CLEAR DIMENSIONS NOTED ARE CRITICAL AND ARE TO BE USED IN LOCATING PARTITIONS, OPENINGS, ETC. SHOULD ANY CLEAR DIMENSIONS ADVERSELY EFFECT OTHER DIMENSIONS NOTED THAT ARE REQUIRED FOR DESIGN INTENT, CONSULT WITH

S0.1 STRUCTURAL NOTES, DRAWING INDEX

S2.1 FOUNDATION SECTIONS AND DETAILS

P1 FLOOR PLAN - PLUMBING DWV/SUPPLY

P3 PLUMBING SCHEDULE/LEGEND/DETAILS

M2 HVAC LEGENDS, SCHEDULES AND DETAILS,

E2 FLOOR PLAN - POWER (ALTERNATE #1)

E4 BASIC ELECTRICAL REQUIREMENTS

E3 ELECTRICAL RISER, SCHEDULES AND DETAILS

E1 FLOOR PLAN ELECTRICAL - LIGHTING/POWER/FIRE ALARM

P4 BASIC PLUMBING REQUIREMENTS

FP1 FLOOR PLAN - FIRE PROTECTION

M3 BASIC HVAC REQUIREMENTS

E0 PHASE 2 PHOTOMETRIC PLAN

S3.1 FRAMING SECTIONS AND DETAILS

S1.1 FOUNDATION PLAN

S1.2 ROOF FRAMING PLAN

P2 ROOF PLAN - NATURAL GAS

M1 FLOOR PLAN - HVAC

S0.2 TYP. FOUNDATION SECTIONS AND DETAILS

S0.4 TYP. ROOF FRAMING SECTIONS AND DETAILS

S0.3 TYP. FOUNDATION DETAILS AND GUARDRAIL DETAILS

CHAPTER 11 OF THE NC BUILDING CODE AND ANSI A117.1-2003." 14. STRUCTURAL ENGINEERS FOUNDATION/FOOTING DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF. THE REQUIRED AGGREGATE PIER DESIGN AND INSTALLATION IS TO BE THE SOLE RESPONSIBILITY OF THE GENERAL

TRANSYLVANIA COUNTY BUILDING PERMIT FEES AND BREVARD CITY FEES FOR PLAN REVIEW, WATER AND SEWER TAP FEES, ETC. TO BE THE RESPONSIBILITY OF THE

ARCH/OWNER IMMEDIATELY. ALL DIMENSIONS PERTAINING TO ACCESSIBILITY

REQUIREMENTS ARE TO BE VERIFIED AND MUST COMPLY WITH

SIGNED AND STAMPED WITH THE GC APPROVED SEAL. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS AS A RESULT OF CHECKING AND REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS SHALL BE RECTIFIED BY THE GC, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW

ACCORDANCE WITH SUCH DRAWINGS. OWNER WILL EMPLOYEE SAME FOR INDEPENDENT SPECIAL INSPECTIONS. AS STATED IN CH. 17 THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING ALL

BUILDING CODE SUMMARY

APPENDIX B BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS

Name of project: SYLVAN VALLEY INDUSTRIAL PARK (PHASE 2 Address: 63 WELCOME STREET, BREVARD, NC 28712 Proposed Use: WAREHOUSE/MANUFACTURING

Owner/Agent: MR. LARRY REESE Phone: 828.883.8765 □ Private Owned By: _ X County TRANSYL VANIA Code Enforcement Jurisdiction: X City BREVARD

LEAD DESIGN	PROFESSIONAL:			
DESIGNER	FIRM NAME [DESIGNER'S NAME	LICENSE#	TELEPHONE#
Architectural	RICHARD L. WORLEY, AIA	RICHARD L WORLEY	3600	828.891.7389
Civil	HIGH COUNTRY ENG., PC	MICHAEL GOFORTH	33862	828.230.4511
Electrical	SIMS GROUP, PC	DEREK STEWART	42145	828.251.2025
Fire Alarm	SIMS GROUP, PC	DEREK STEWART	42145	828.251.2025
Plumbing	SIMS GROUP, PC	DEREK STEWART	42145	828.251.2025
Mechanical	SIMS GROUP, PC	DEREK STEWART	42145	828.251.2025
Sprinkler	NA	NA	NA	NA
Structural	MEDLOCK AND ASSOC.	EDWARD MEDLOCK	25950	828.232.4448
Ret. Walls>5'	NA	NA	NA	NA
Other	NA	NA	NA	NA

YEAR EDITION OF CODE: NC BUILDING CODE 2018

New Construction Renovation (Existing Bldg) Upfit Alteration

BUILDING DATA:

 \square IV \square V-A \square V-B

Mixed Construction: No Yes Types ____ □No XYes XNFPA 13 □NFPA 13R □NFPA 13D ☑No ☐Yes ☐CLASS | ☐CLASS | ☐ CLASS | ☐ DRY Standpipes: SPRINKLER SYSTEM TO CONNECT TO THE EXISTING ESFR SYSTEM Fire District: (ESFR - EARLY SUPPRESSION FAST RESPONSE) Building Height: 32 ft. No. of Stories: 1 🔲 🖾 Unlimited per N/A

☐ No X Yes IN EXISTING BUILDING

High Rise: ☐ No ☐ Yes Central Reference Sheet # (if provided) SEC. 507

Gross Building Area:

Floor	Existing (Sq.Ft.)	New (Sq.Ft.)	Sub-Total
4th Floor	N/A	N/A	N/A
3rd Floor	N/A	N/A	N/A
2nd Floor	N/A	N/A	N/A
Mezzanine	N/A	N/A	N/A
1st Floor	60,750	40,000	100,750
Basement	N/A	N/A	N/A
TOTAL :	60,750	40,000	100,750

NO INCREASE IN AREA ALLOWABLE AREA Primary Occupancy: \square Assembly \square A-1 \square A-2 \square A-3 \square A-4 \square A-5 ☐ Business ☐ Educational ☒ Factory—Industrial \square H-1 \square H-2 \square H-3 \square H-4 \square H-5 ☐ High—Hazard □ I−1 □ I−2 □ I−3 □ I−4 ☐ Institutional I-3 Use Condition \square 1 \square 2 \square 3 \square 4 \square 5 \square Mercantile \square Residential \square R-1 \square R-2 \square R-3 \square R-4 . □ Storage □ S-1 ☐ S-2 ☐ High-piled

Secondary Occupancy: <u>X</u> Special Use: 402 403 404 405 406 407 408 409 410 411

423 424 425 426 427 Special Provisions: 509.2 509.3 509.4 509.5 509.6 509.7 509.8 509.9

Mixed Occupancy: ☐ NO 🛛 YES Separation: X Hr. Exception: X ☐ Incidental Use Separation (508.2.5)

This separation is not exempt as a Nonseparated Use (see exceptions)

—+—

exceed 1.

☐ Non-Separated Mixed Occupancy (508.3.2) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.] Separated Mixed Occupancy (508.3.3) - See below for area calculations For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not

Actual Area of Occupancy A + Actual Area of Occupancy B ≤ 1.00 N/A N/A N/A N/A

____+___

<u>.00</u> ≤ 1.00 N/A (.00) N/A N/A N/A (.00.) (.00)(.00) (B) (D) | (E) | (F) BLDG AREA PER FLOOR AREA OPEN SPACE SPRINKLER AREA OR UNLIMITED 3 DESCRIPTION AND USE INDUSTRY-F1-NEW 40,000 9000 INDUSTRY-F1-EXISTING 60,750 7000 N/A UNLIMIT UNLIMIT N/A

NOTE: ENTIRE BUILDING IS SURROUNDED BY A MIN. OF 60 FT. PUBLICS WAY OR YARD AND HAS AN AUTOMATIC SPRINKLER SYSTEM NFPA 13 ALLOWING FOR UNLIMITED AREA (SEC. 507). Open space area increase from Section 506.2 are computed thus:

a. Perimeter which front a public way or open space having 20ft min. width = $\frac{N/A}{F}$

b. Total Building Perimeter = $\frac{N/A}{(P)}$ c. Ratio (F/P) = $\frac{N/A}{(F/P)}$ d. W=Minimum width of public way = $\frac{N/A}{M}$ (W)

e. Percentage of frontage increase If = 100 (F/P - .25) x W/30 = $\frac{N/A}{M}$ (%) 2. The sprinkler increase per Section 506.3 is as follows:

a. Multi-story building $I_S = 200$ percent b. Single-story building $I_S = 300$ percent 3. Unlimited area applicable under conditons of Section 507.

. Maximum Building Area=total number of stories in the building xE (506.4).

5. The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

ALLOWABLE HEIGHT PROJECT IS RENOVATION OF INTERIOR AREAS OF AN EXISTING BUILDING WITHOUT ANY ADDITIONS.									
	ALLOWABLE (TABLE 504)	INCREASE FOR SPRINKLERS	SHO ON PL						
Type of Construction	Туре	IIB	Туре						
Building Height in Feet	Feet75_	Feet=H+20'= <u>N/A</u>	Feet _						

Building Height in Stories Stories 1 Stories+1 = N/A Stories_

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENTS	FIRE SEPARATION IN		RATING	DETAIL #	DESIGN # FOR RATED	DESIGN # FOR RATED	DESIGN FOR RATED
		REQ'D.	PROVIDED (W/*	AND SHEET #			
	(FEET)		REDUCTION)	STILLT #	ASSEMBLY	PENETR.	JOINTS
Structural frame, including columns, girders trusses	X	×	X	×	X	×	X
Bearing Walls (EXISTING)							
Exterior	X	X	X	X	Χ	X	X
North	X	X	X	X	X	X	X
East	X	X	X	X	Х	X	X
West	X	X	×	X	X	Х	Х
South	X	X	×	X	X	X	Х
Interior	X	X	×	X	X	X	X
Non-bearing walls and partitions Exterior	X	×	X	X	X	×	X
North	Х	Х	X	X	Х	X	Х
East	Х	Х	X	X	Х	X	Х
West	X	Х	X	X	Х	X	Х
South	X	X	X	X	Χ	X	Х
Interior	X	X	×	X	X	X	Х
Floor Construction Including support beams and joists	X	×	X	×	X	×	X
Roof Construction Including support beams and joists	X	X	X	X	Х	×	X
Shafts — Exit	X	X	X	X	X	X	X
Shafts — Other	X	X	×	X	X	X	Х
Corridor Separation (New)	Х	Х	X	X	Х	X	Х
Fire Separation Partition	X	X	X	Х	X	X	X
Fire Partition	X	Х	X	×	Х	X	X
Fire Partition	Х	Х	X	Х	Х	X	Х
Smoke Barrier Separation	X	Х	X	Х	Χ	Х	Х

* Indicate section number permitting reduction

LIFE SAFETY REQUIREMENTS

Panic Hardware:

□ NO 🛛 YES Emergency Lighting: Exit Signs: □ NO

▼ YES □ NO 🛛 YES Fire Alarm: Smoke Detection System: ☐ NO X YES

> EXIT REQUIREMENTS NUMBER AND ARRANGEMENT OF EXITS

ILDING ELEMENTS	MINIMUM NUMBER OF EXITS		TRAVEL DI	ARRANGEMENT MEANS OF EGRESS (1007.1.1)		
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1017.2)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQ'D MIN. DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
USTRIAL (F1)	2	6	250	215	46	60

CODE REFERENCE

602.2

	EX	IT WIDTI	Н				
(a)	(b)	(c)		EXIT WIDTH (in.)2,3,4,5,6			
AREA ¹ sq. ft.	AREA PER OCCUPANT (1004.1.2)	EGRESS WIDTH PER OCCUPANT (SEC. 1005)		REQUIRED WIDTH (SEC 1005) (a/b) x c		ACTUAL WIDTH SHOWN ON PLANS	
		STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
40,000	100	.3	.2	60	80	72	144
	AREA ¹ sq. ft.	(a) (b) AREA 1 PER PER OCCUPANT (1004.1.2)	(a) (b) (c) AREA ¹ AREA PER OCCUPANT (SEC. (1004.1.2) STAIR	AREA 1 PER PER OCCUPANT (SEC. 1005) AREA 1 PER OCCUPANT (SEC. 1005) (1004.1.2) STAIR LEVEL	(a) (b) (c) AREA 1 AREA PER OCCUPANT (SEC OCCUPANT (SEC 1005) (a/b) (1004.1.2) STAIR LEVEL STAIR	(a) (b) (c) EXIT AREA PER OCCUPANT (SEC 1005) (G/b) x c Sq. ft. (1004.1.2) STAIR LEVEL STAIR LEVEL	(a) (b) (c) EXIT WIDTH (in.)2 AREA PER OCCUPANT (SEC 1005) (a/b) x c GCUPANT (SEC 1005) (a/b) x c STAIR LEVEL STAIR LEVEL STAIR

See Table 1003.2.2.2 to determine whether net or gross area is applicable. See definition "Area Gross" and "Area, Net" (Section 1002)

² The sprinkler increase per Section 506.3 is as follows: c. Multi-story building IS = 200 percent c. Single-story building s = 300 percent

³ Min. stairway width (Section 1003.3.3); min. corridor width (Sec. 1004.3.2.2);

min. door width (Secton 1003.3.1) ⁴ Minimum width of exit passageway (Section 1005.3.3)

⁵ The loss of one means of egress shall not reduce the available capacity to less than 50% of the total required (Section 1003.2.3) ⁶ Assembly occupancies (Section 1008)

CONTRACTOR UNDER A DESIGNATED DESIGN REQUIREMENT. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.

GENERAL CONTRACTOR IF THEY ARE INCURRED ON THIS PROJECT. NO SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING AND OTHER TRADE REQUIREMENTS BY THE GENERAL CONTRACTOR, SHOP DRAWINGS ARE TO BE

OF DRAWINGS BY ARCHITECT REGARDLESS IF WORK HAS BEEN COMPLETED IN

INSPECTION WITH S&ME AS WELL AS FOR THE CONTRACTOR'S RESPONSIBILITIES AND OBSERVATION DOCUMENTED IN THIS CHAPTER OF THE CODE.

SPECIAL APPROVAL: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below) SPECIAL1 City of Brevard — Unified Development Ordinance SPECIAL2

ENERGY REQUIREMENTS:

SPECIAL3

CLIMATE ZONE: \square 3 $ot \bigsigma 4 \quad 5$ METHOD OF COMPLIANCE: Prescriptive ☒ Performance ☐ Energy Cost Budget ☐

Roof/ceiling Assemblies: Description of assembly: TYPICAL: EXPOSED CONSTRUCTION OF METAL DECKING WITH CONTINUOUS R-30 RIGID FOAM INSULATION (APPROX 6" THK) ABOVE DECK WITH TPO SINGLE PLY ROOFING MEMBRANE SYSTEM.

U-Value of total assembly: 0.0315

R-Value of insulation: R-30.0 Skylights (U—Value & total area in assembly): None

Exterior Wall Assemblies: Description of assembly

INSULATED PRE-CAST CONCRETE PANELS: U-Value of total assembly: U-0.104PANEL CONSISTS OF 2-1/2" CONCRETE, 3" RIDGED BOARD INSULATION, 2-1/2" CONCRETE. PANEL SUPPLIER TO SUBMIT DATA CONFIRMING PANEL PROVIDES MIN. INSULATION REQUIRED BY THE NC BLDG

Openings (windows, doors w/ glazing):

U-Value of glazing assembly: Fixed Glazing 0.45; Doors 0.77 Solar Heat Gain Coefficient: 0.33 Projection factor: .45 Door R-Values: opaque door U-.25 Garage Door Values: U-.25

Walls adjacent to unconditioned space: (None)

Walls below grade Assembly: Description of assembly:

U—Value of total assembly: N/A

R-Value of insulation: N/A Floors over unconditioned space: (None) Description of assembly: N/A U—Value of total assembly: N/A

R-Value of insulation: N/A Floors, slab on grade:

Slab heated: No

Description of assembly: Concrete Slab on Grade w/ 3" ext. polystyrene (R-15) U—Value of total assembly: N/A R-Value of insulation: 15.0

Horizontal/Vertical requirement: installed Horizontal

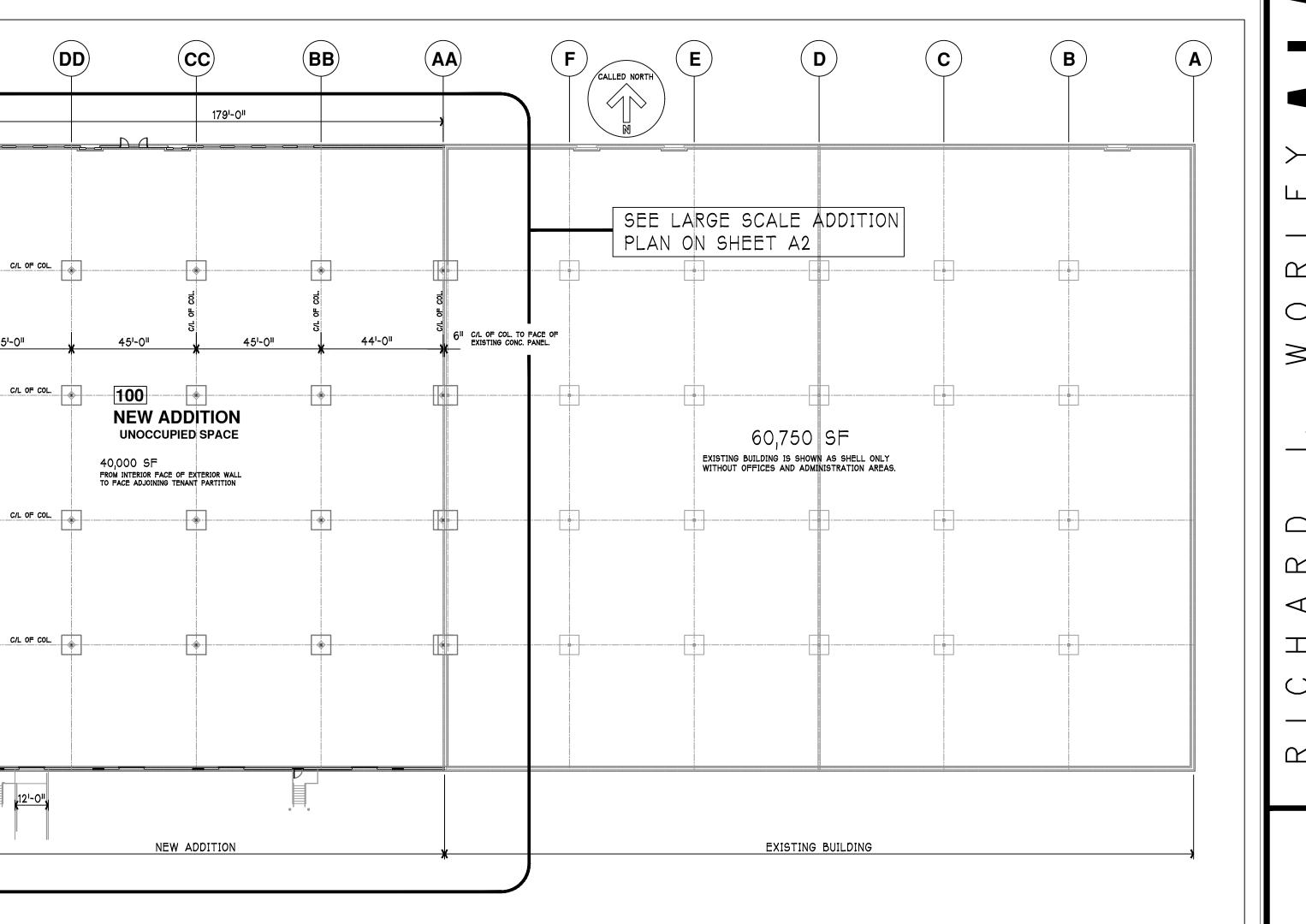
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LIFE SAFETY REQUIREMENTS Emergency Lighting: □ NO 💢 YES Exit Signs: □ NO 🛛 YES Fire Alarm: □ NO 🛛 YES Smoke Detection System: ☐ NO 🏻 YES □ NO 🛛 YES Panic Hardware: EXIT REQUIREMENTS NUMBER AND ARRANGEMENT OF EXITS

BUILDING ELEMENTS SHOWN ON PLANS ALLOWABLE TRAVEL DISTANCE DISTANCE (TABLE 1017.2) CONTRACT DISTANCE DISTANCE DISTANCE SHOWN BETWEEN SHOWN ON PLANS EXIT DOORS ON PLANS 215 46 60 250 INDUSTRIAL (F1)

EXIT WIDTH

FE 215 FT.

NOTE: LOCATION OF DEVICES ARE DIAGRAMMATIC IN NATURE. EXACT LOCATION TO BE CONFIRMED WITH

TO PROCEEDING WITH INSTALLATION.

LIFE SAFETY PLAN

OWNER AND COORDINATED WITH OTHER TRADES PRIOR

EXISTING BUILDING

45'-0"

45'-0"

NEW ADDITION

UNOCCUPIED SPACE

FROM INTERIOR FACE OF EXTERIOR WALL
TO FACE ADJOINING TENANT PARTITION

NOTE: RAMP SLOPE 1 PER FT.
MAX. COORDINATE EXACT
LENGTH WITH FINAL GRADE

SCALE: 1" = 30'-0"

AREA SUMMARY

INDUSTRIAL (F-1) SQUARE FOOTAGE

UNOCCUPIED SPACE 40,000 SF

NEW ADDITION

AREA PER OCCUPANT (SEC. 1005) (a/b) x c STAIR LEVEL STAIR LEVEL STAIR LEVEL INDUSTRIAL (F1) | 40,000 | 100 | .3 | .2 | 60 | 80 | 72 | 144

See Table 1003.2.2.2 to determine whether net or gross area is applicable.

See definition "Area Gross" and "Area, Net" (Section 1002) The sprinkler increase per Section 506.3 is as follows: c. Multi-story building IS = 200 percent

c. Single-story building IS = 300 percent Min. stairway width (Section 1003.3.3); min. corridor width (Sec. 1004.3.2.2); min. door width (Secton 1003.3.1) Minimum width of exit passageway (Section 1005.3.3)

The loss of one means of egress shall not reduce the available capacity to less than 50% of the total required (Section 1003.2.3) Assembly occupancies (Section 1008)

LIFE SAFETY PLAN GENERAL NOTES:

A. BUILDING DESIGN INCLUDES: 1. EXACT LOCATION OF PORTABLE FIRE EXTINGUISHERS

TO BE COORDINATED WITH FIRE MARSHALL AND ALL 2. FIRE ALARM SYSTEM WITH SMOKE DETECTORS. 3. INTERIOR EMERGENCY LIGHTING 4. EXTERIOR EMERGENCY LIGHTING AT EXIT DOORS.

6. FIRE SPRINKLER SYSTEM. B. BUILDING OCCUPANCY INDUSTRIAL (F-1).

C. OCCUPANCY LOAD: REFER TO SHEET TS FOR APPENDIX "B". LIFE SAFETY PLAN LEGEND:

FIRE EXTINGUSHER EMERGENCY LIGHTING

EMERGENCY LIGHTING

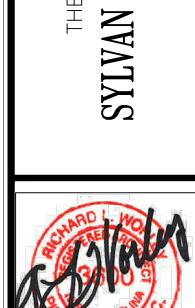
EXTERIOR EMERG. LIGHTING (E)

EMERGENCY LIGHTING

SCALE: 1" = 30'-0"

451-011

OVERALL KEY PLAN VIEW



The design detail and invention of this drawing is the property of Richard L. Worley, AIA Architect and shall not be copied or disclosed without written consent.

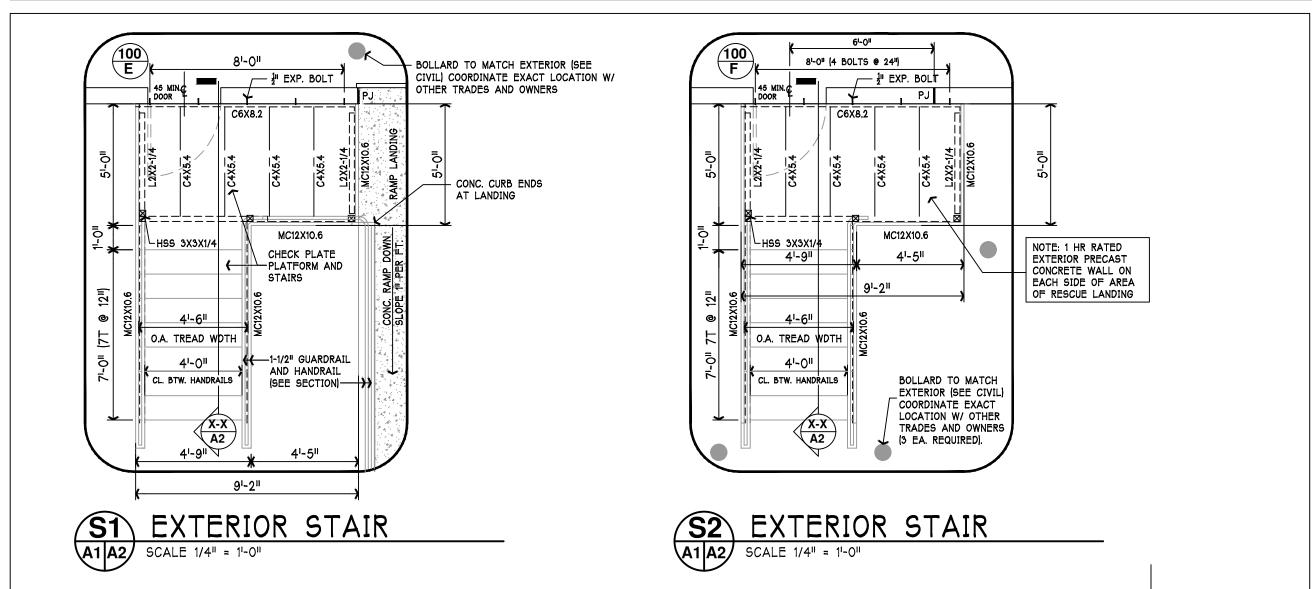
DIGITAL PLANS OF EXISTING BUILDING ARE A GENERAL REPRESENTATION OF THE EXISTING BUILDING AND HAVE BEEN DEVELOPED FROM OLD EXISTING

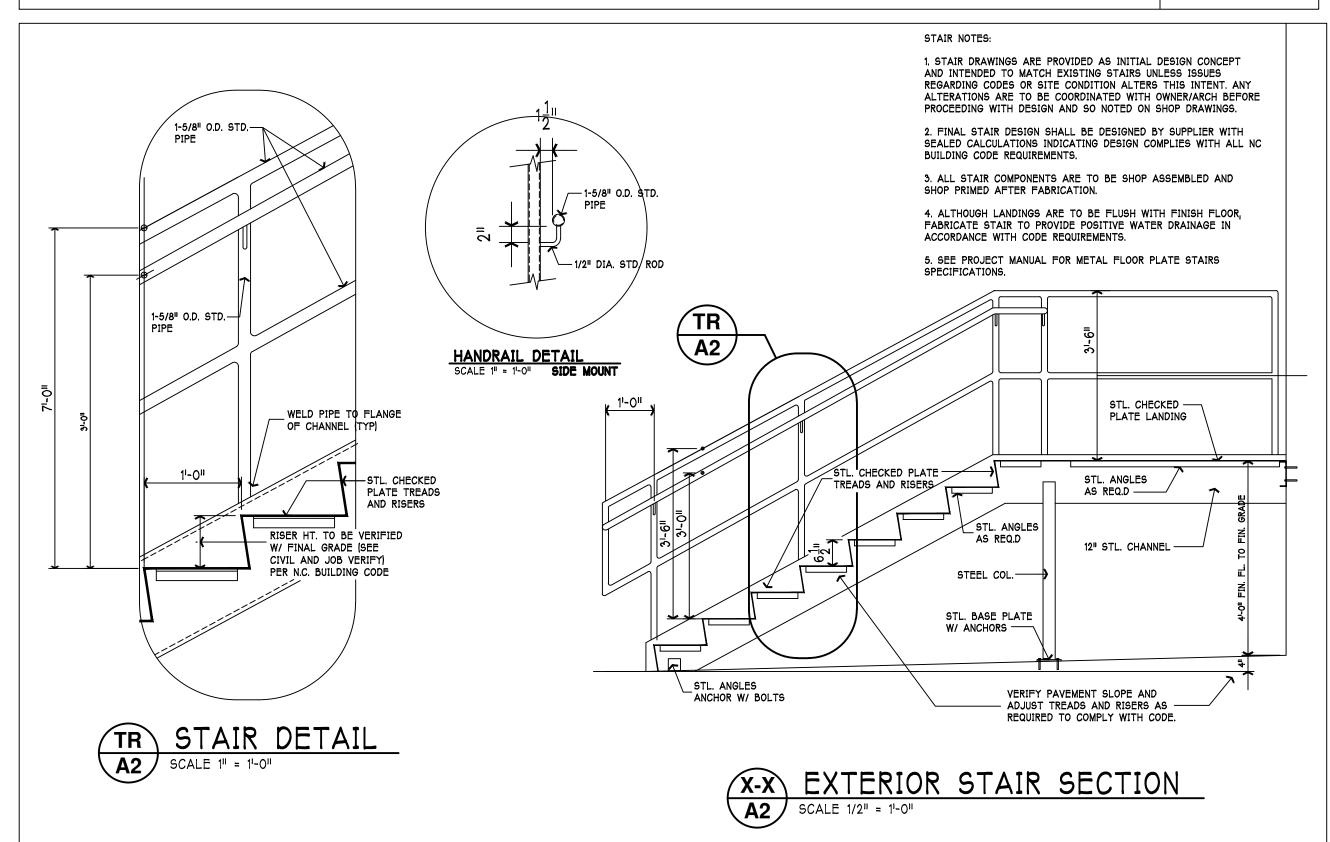
DRAWINGS WITH MINIMAL SITE OBSERVATIONS. THESE DRAWINGS/FILES ARE NOT INTENDED TO BE A PRECISE REPRESENTATION OF THE EXISTING

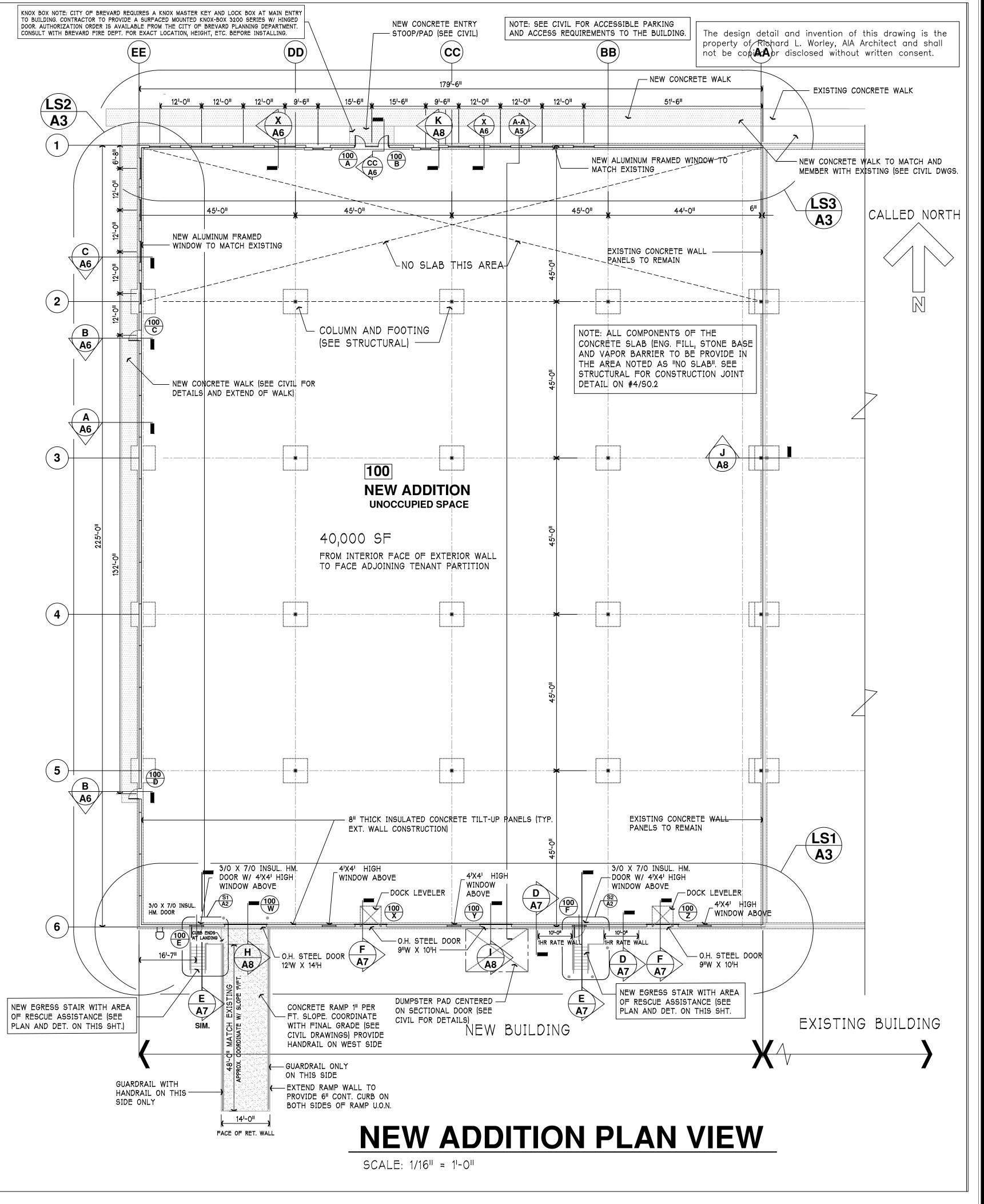
CONSTRUCTION. FIELD VERIFY EXISTING CONDITIONS OF ANY AREAS THAT ARE CRITICAL TO ALL RENOVATIONS, ADDITIONS AND FUTURE DESIGN OF THIS BUILDING. ALL SQUARE FOOTAGE NUMBERS ARE APPROXIMATE.

SPECIAL CONSTRUCTION NOTES:

- 1. THE DETAILED CONSTRUCTION DRAWINGS ARE INTENDED TO MATCH THE EXISTING BUILDING IN CONCEPT AND DETAILS WHENEVER POSSIBLE. FINAL APPEARANCE IS EXPECTED TO MATCH EXISTING COLORS, DESIGN FEATURES, QUALITY OF MATERIALS, ETC. ANY CONFLICTS WITH THIS INTENT IS TO BE BROUGHT TO THE OWNER/ARCH'S ATTENTION BEFORE PROCEEDING.
- THE REQUIRED PRE-ENGINEERED PRE-CAST WALL PANEL DESIGN AND CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER A DESIGNATED DESIGN REQUIREMENT. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.
- 3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS. CONSULT ARCHITECT FOR ANY CONFLICTS.
- 4. STRUCTURAL ENGINEER'S FOUNDATION/FOOTING DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. THE REQUIRED AGGREGATE PIER DESIGN AND CONSTRUCTION IS TO BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER DESIGNATED DESIGN REQUIREMENTS. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.
- 5. THE DESIGN INTENT OF THE CONSTRUCTION DRAWINGS AND PROJECT MANUAL IS TO COMPLY WITH ALL BUILDING CODES AND/OR ORDINANCES THAT HAVE JURISDICTION OVER THIS PROJECT. CONTRACTOR IS TO CONSULT WITH OWNER/ARCHITECT REGARDING ANY PORTIONS OF THE DOCUMENTS THAT DO NOT COMPLY WITH SUCH CODES/ORDINANCES.
- 6. THE REQUIRED PRE-ENGINEERED PRE-CAST WALL PANEL DESIGN AND CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR UNDER DESIGNATED DESIGN REQUIREMENTS. REFER TO STRUCTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING THIS WORK.
- 7. DIMENSIONS:
 - 1. TO PARTITIONS ARE TO FACE OF PARTITION U.O.N.
 - 2. DIMENSIONS TO ALUM. WINDOW AND STOREFRONT ENTRY ARE TO CENTER LINE OF WINDOW/STOREFRONT ENTRY UNIT U.O.N.
 - 3. REFER TO DOOR AND WINDOW DETAILS, ELEVATIONS, ETC. FOR ROUGH OPENING REQUIREMENTS.







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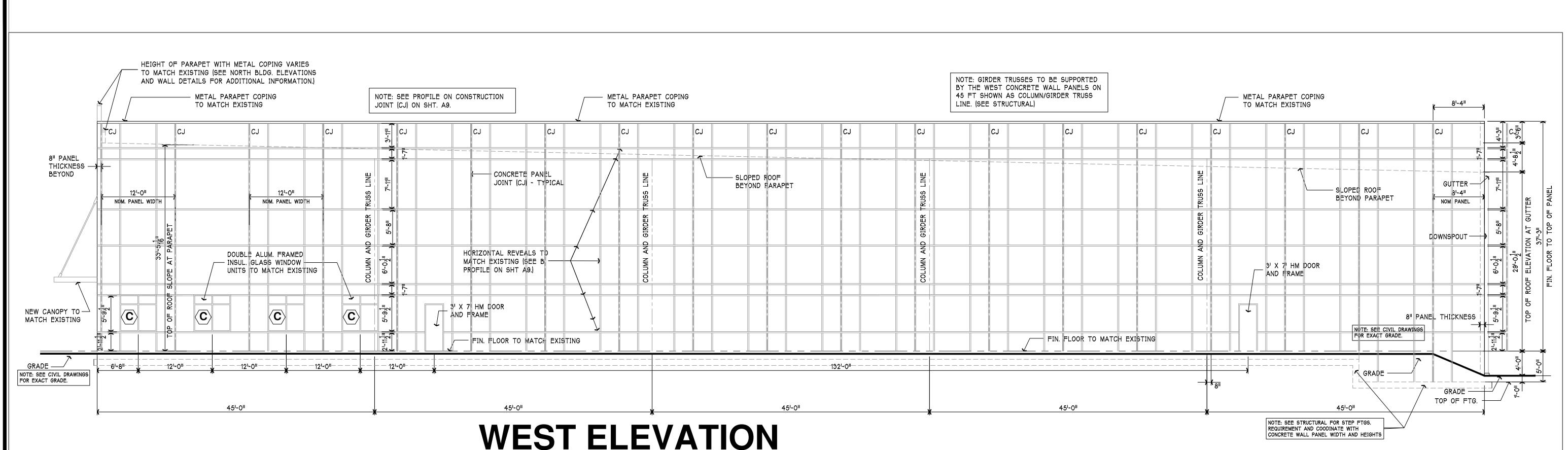
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NORTH AND SOUTH BUILDING ELEVATION

 $SCALE: 1/8^{||} = 1^{||} - 0^{||}$

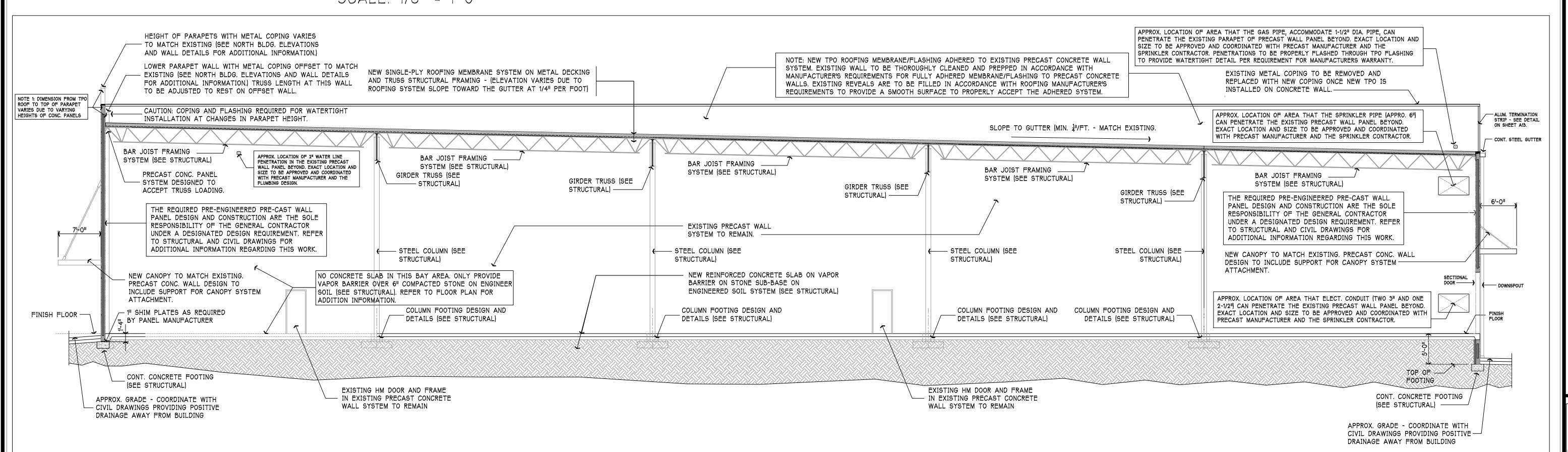
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WEST BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



BUILDING SECTION

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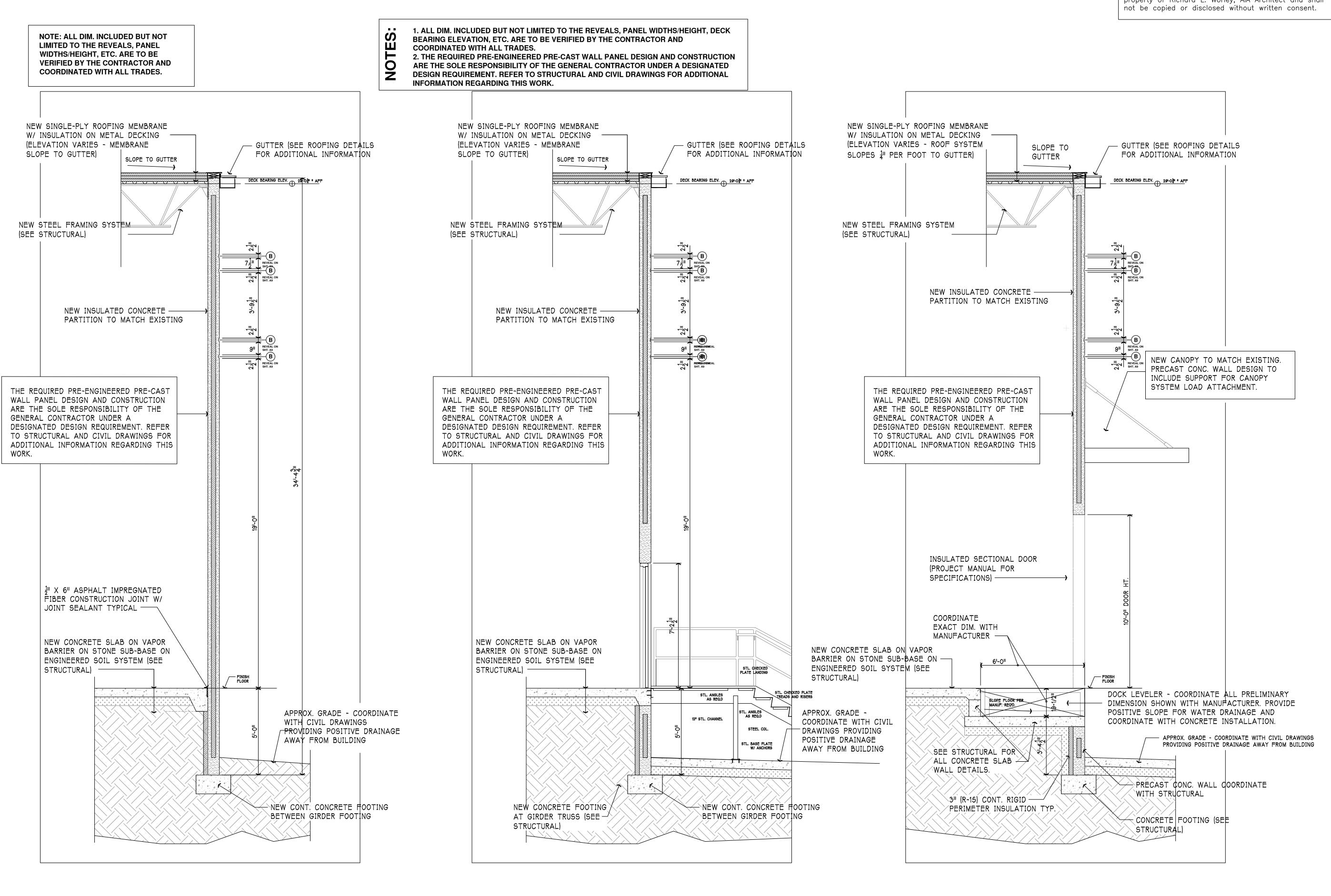
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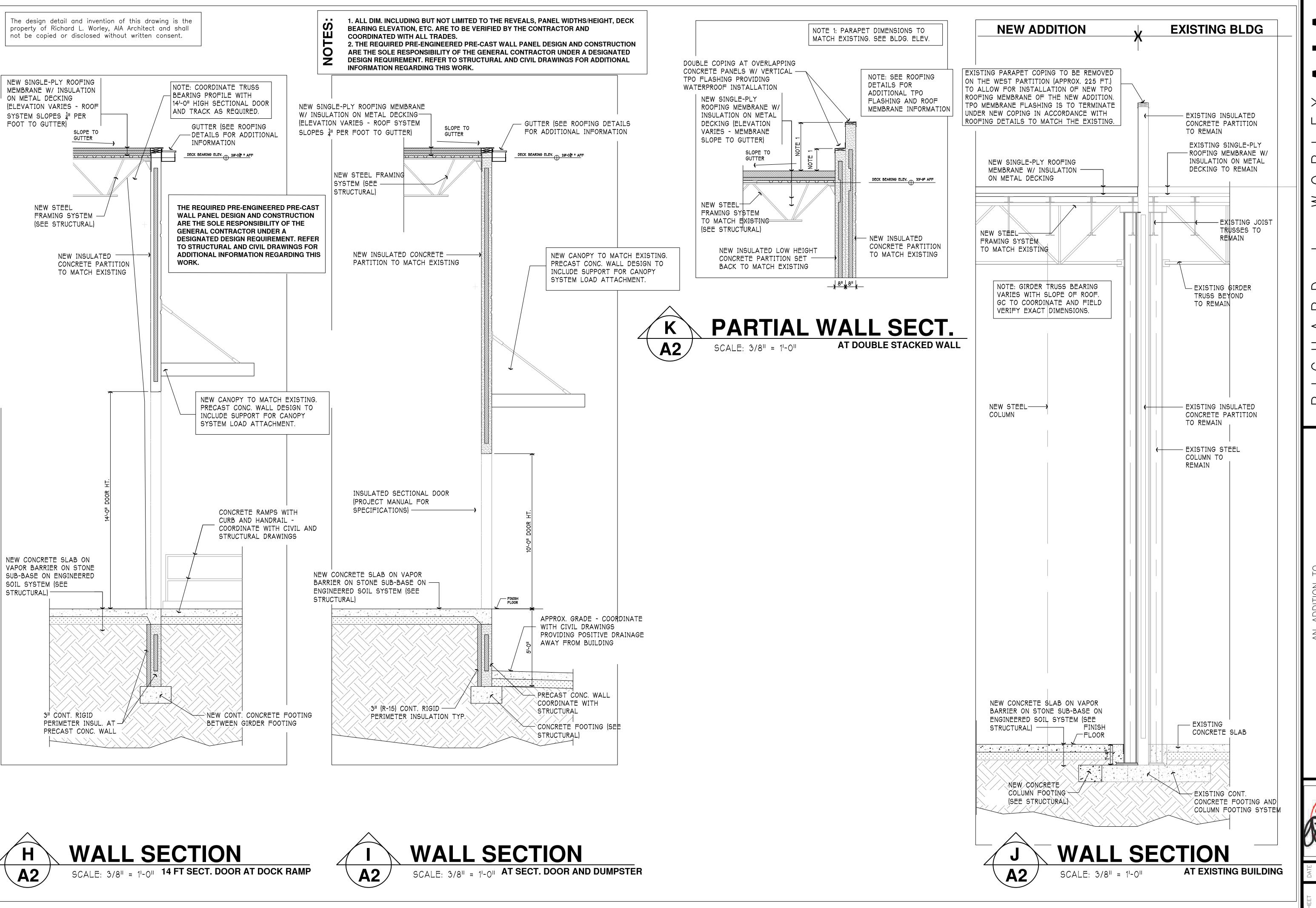


WALL SECTION H.M. DOORS AT STAIRS **A2**

WALL SECTION SCALE: 3/8" = 1'-0" SECTIONAL DOOR AT DOCK LEVELER

WALL SECTION

SCALE: 3/8" = 1'-0"



RICHARD L. WORLEY A. MILLS RIVER. NORTH CAROLINA 28759

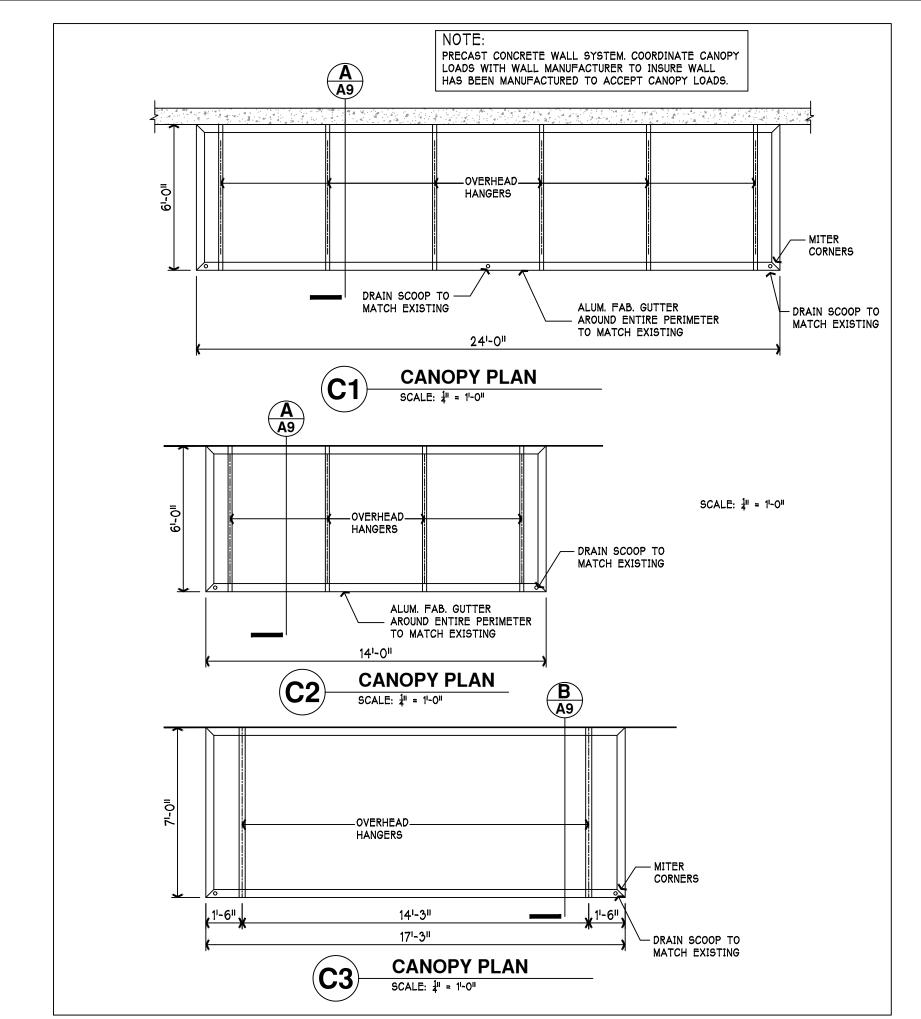
AN ADDITION TO
THE TRANSYLVANIA COUNTY ECONOMIC ALLIANCE
SYLVAN VALLEY INDUSTRIAL PARK

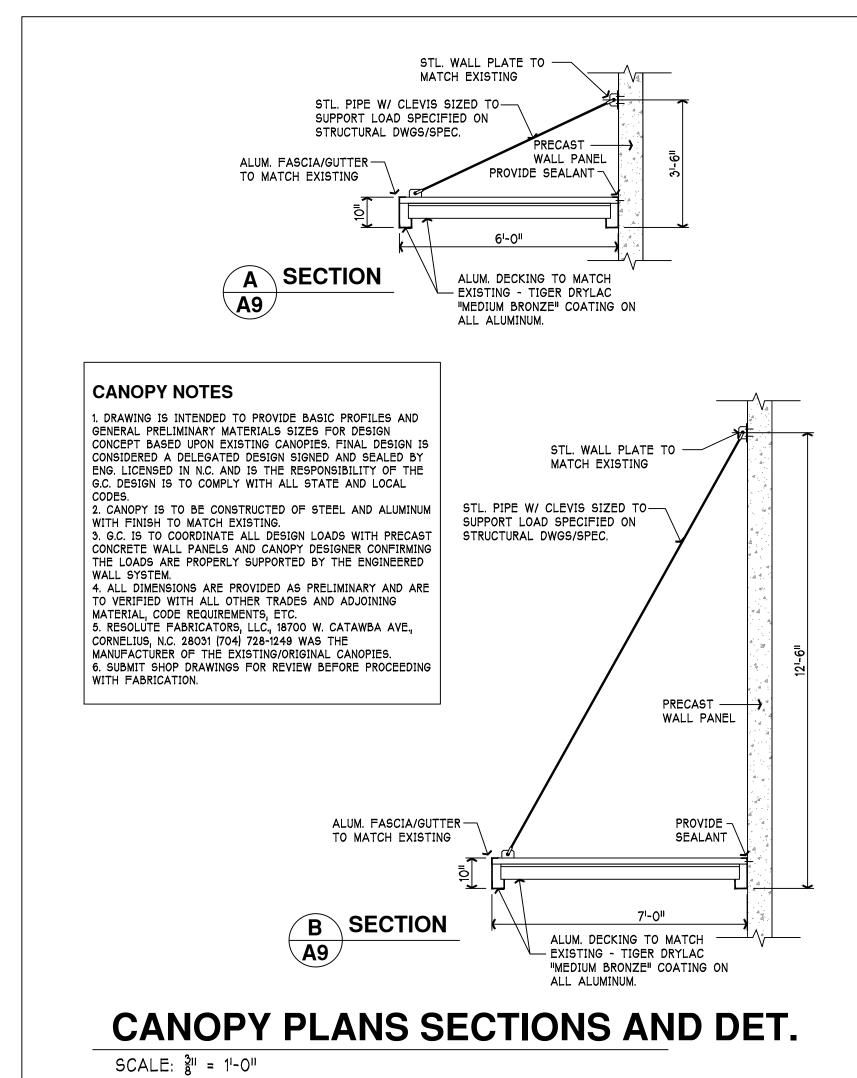
SAND A CAROLLANDON FOREST

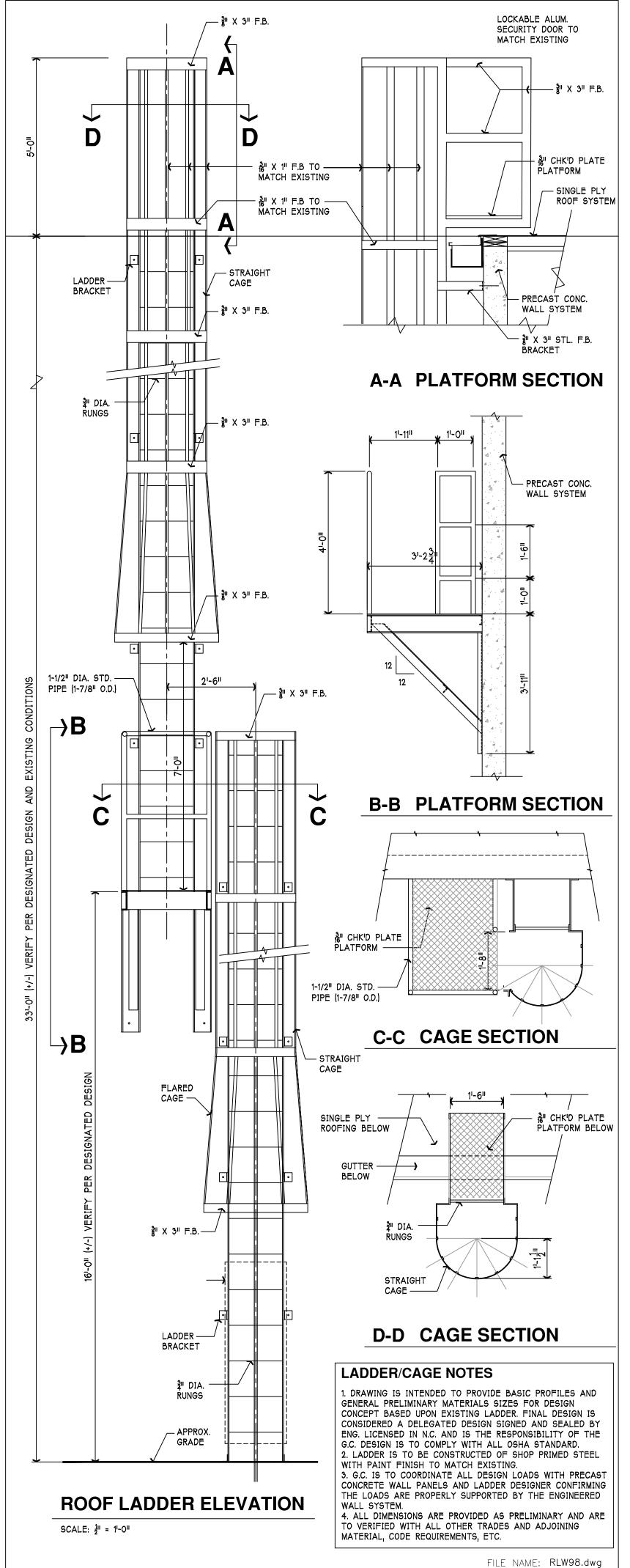
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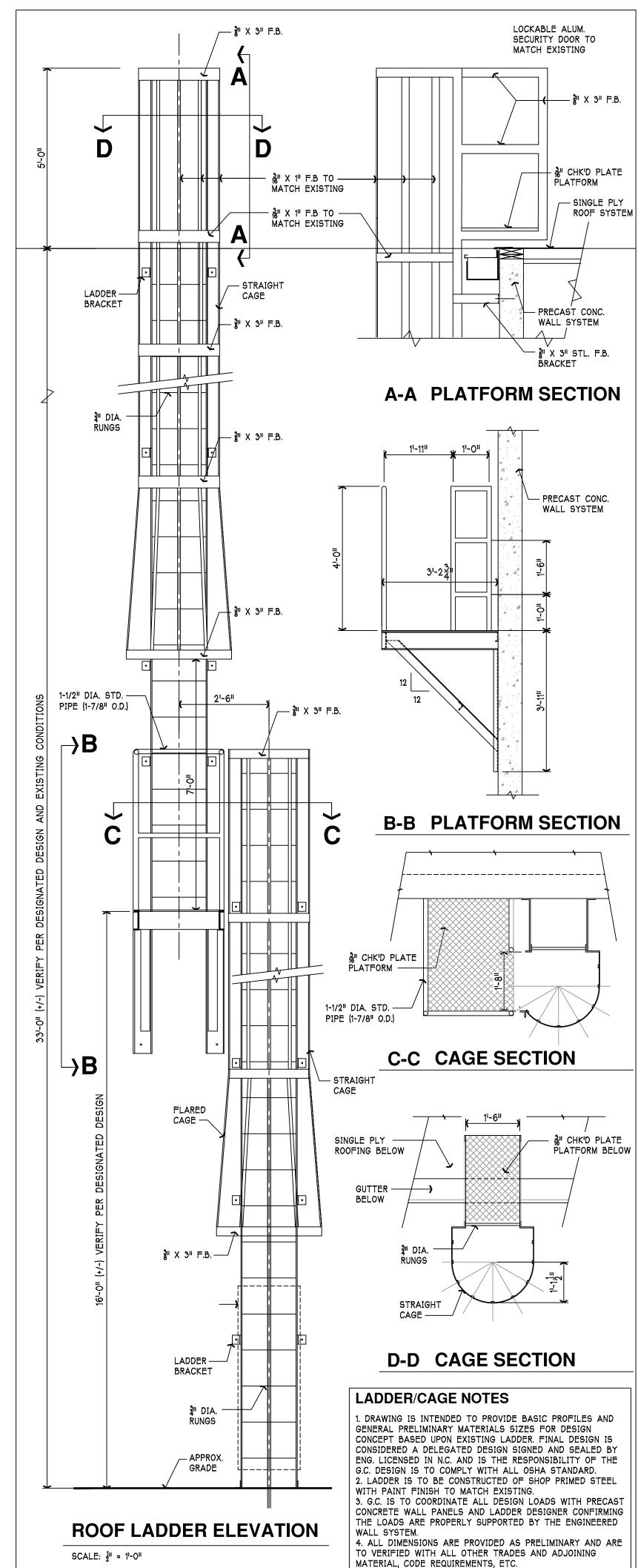
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GENERAL DOOR/HARDWARE NOTES:

DETAILS.

1. ALL EXTERIOR HM DOORS AND FRAMES TO BE GALVINIZED - SEE SPEC.. 2. CAULK AROUND HM AND ALUM DOOR FRAMES AT DISSIMILAR MATERIALS. SEE

1. REFER TO SPECIFICATIONS FOR ALL FINISHES INDICATED ON THE SCHEDULE.

SPECIAL DOOR/HARDWARE NOTES

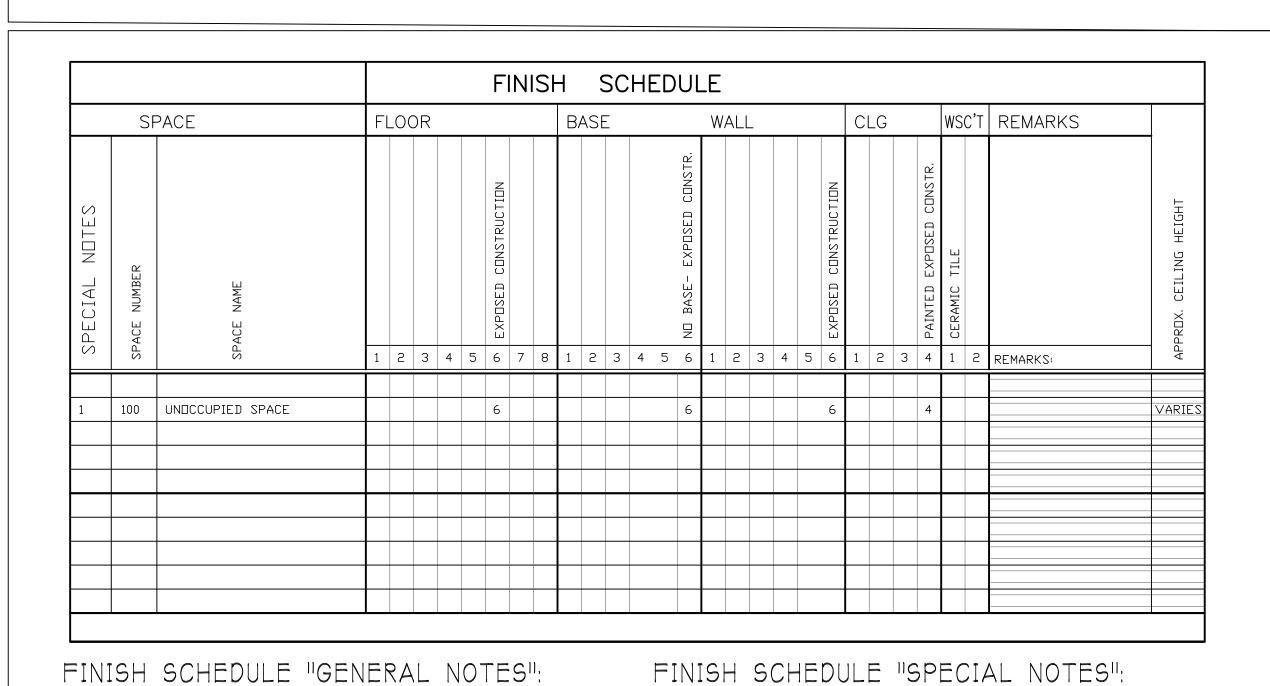
1. ALTERNATE #1: DOOR TO INCLUDE LIFTMASTER HEAVY DUTY DOOR ELECTRIC OPERATOR W/ PUSH BUTTONS & REMOTE (SEE SECTIONAL DOOR SECTION OF SPEC). 2. SEE ALUMINUM DOOR AND FRAME DETAILS ON THIS SHT. AND A11 FOR ADDITIONAL

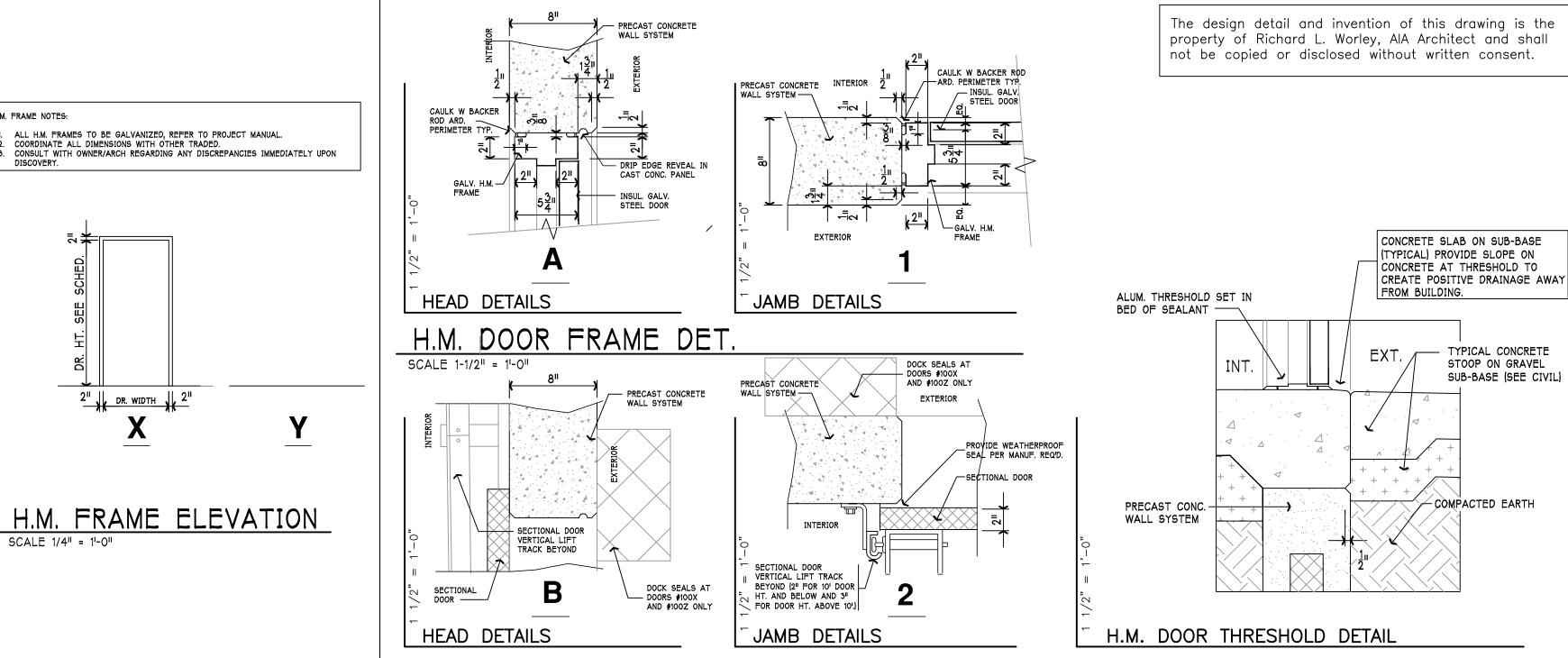
1. CONCRETE FLOOR TO RECEIVE LIQUID FLOOR TREATMENT - SEE SPECIFICATIONS.

12'-0" OPENING WIDTH OPENING WIDTH ALL GLASS TO BE 1" THICK LOW-E TEMPERED SAFETY GLASS IN ALL ALUMINUM STOREFRONT, CURTAIN WALLS AND ENTRY DOORS. PIELD VERIFY ALL DIMENSION W/ EXISTING CONDITIONS. REFER TO PROJECT MANUAL, FLOOR PLANS, DETAILS, ETC. FOR ADDITIONAL INFORMATION. REFER ANY CONFLICTS TO OWNER/ARCH IMMEDIATELY UNON DISCOVERY. SEE SCH. TEMP. GLASS. - MEDIUM STILE DOOR APPROX. 10"X10" INSULATED GLASS (MATCH INSULATED H.M. ALUM. SINGLE ACTING OVERHEAD SECTIONAL DOOR OVERHEAD SECTIONAL DOOR DOOR W/ VISION LOADING DOCK ONLY DOOR W/ 1" INSUL. TEMP. GLASS H.M. DOOR TYPES SCALE 1/4'' = 1'-0''10'-0" M.O. NOTES: 9'-11" FRAME WIDETH 1. ALL GLASS TO BE 1" THICK LOW-E TEMPERED SAFETY GLASS IN ALL ALUMINUM STOREFRONT, CURTAIN WALL AND ENTRY DOORS AS REQUIRED BY NC BUILDING CODE. CLEARLY NOTE ALL LOCATION AND CONFIRM CODE COMPLIANCE. ALL OTHER GLASS NOT REQUIRED TO BE TEMPERED TO BE 1" THICK LOW-E GLASS. 2. GENERAL CONTRACTOR AND ALUMINUM FRAME MANUFACTURER/INSTALLER TO VERIFY ALL DIMENSION AND COORDINATE DIMENSIONS WITH ALL OTHER TRADES INCLUDING BUT NOT LIMITED TO THE PRECAST CONCRETE WALL PANEL MANUFACTURER THAT WILL HAVE SPECIFIC REVEALS AND TAPERED SURFACES TO PROVIDE POSITIVE WATER DRAINAGE TO THE EXTERIOR OF REFER TO BUILDING ELEVATIONS AND WALL SECTIONS FOR ADDITIONAL INFORMATION REGARDING BUT NOT LIMITED TO LOCATIONS, WINDOW HEIGHTS, ETC. CONSULT WITH OWNER/ARCH REGARDING ANY DISCREPANCIES IMMEDIATELY UPON DISCOVERY. 4. DETAIL DESIGNATIONS REFER TO ALUM. CURTAIN WALL, STOREFRONT AND ENTRANCE DOORS DETAILS ON THIS SHEET AND A11. NOTE: DETAIL DESIGNATION REFER TO ALUM. STOREFRONT & DR. DETAILS ON SHEET A11. 9'-111 FRAME NOTE: DETAIL DESIGNATION REFER TO ALUM. STOREFRONT & DR. DETAILS ON SHEET A11. GLASS REQUIRED IN ALL GLAZING WITHIN THE CURTAIN NOTE: TYPE TG GLASS REQUIRED IN ALL GLAZING EXCEPT CURTAIN WALL GLASS. (SEE GLAZING SPECS.) WALL (SEE GLAZING SPECS.) ALUM. CURTAIN

WALL FRAME

SCALE 1/4" = 1'-0"





SCALE 1-1/2" = 1'-0"

SCALE 1/4" = 1'-0"

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SECTIONAL DOOR HEAD AND JAMB DET.

ALUMINUM WINDOW AND DOOR FRAMES

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— FINISH DOOR FRAME

FINISH FLOOR -

HARDWARE

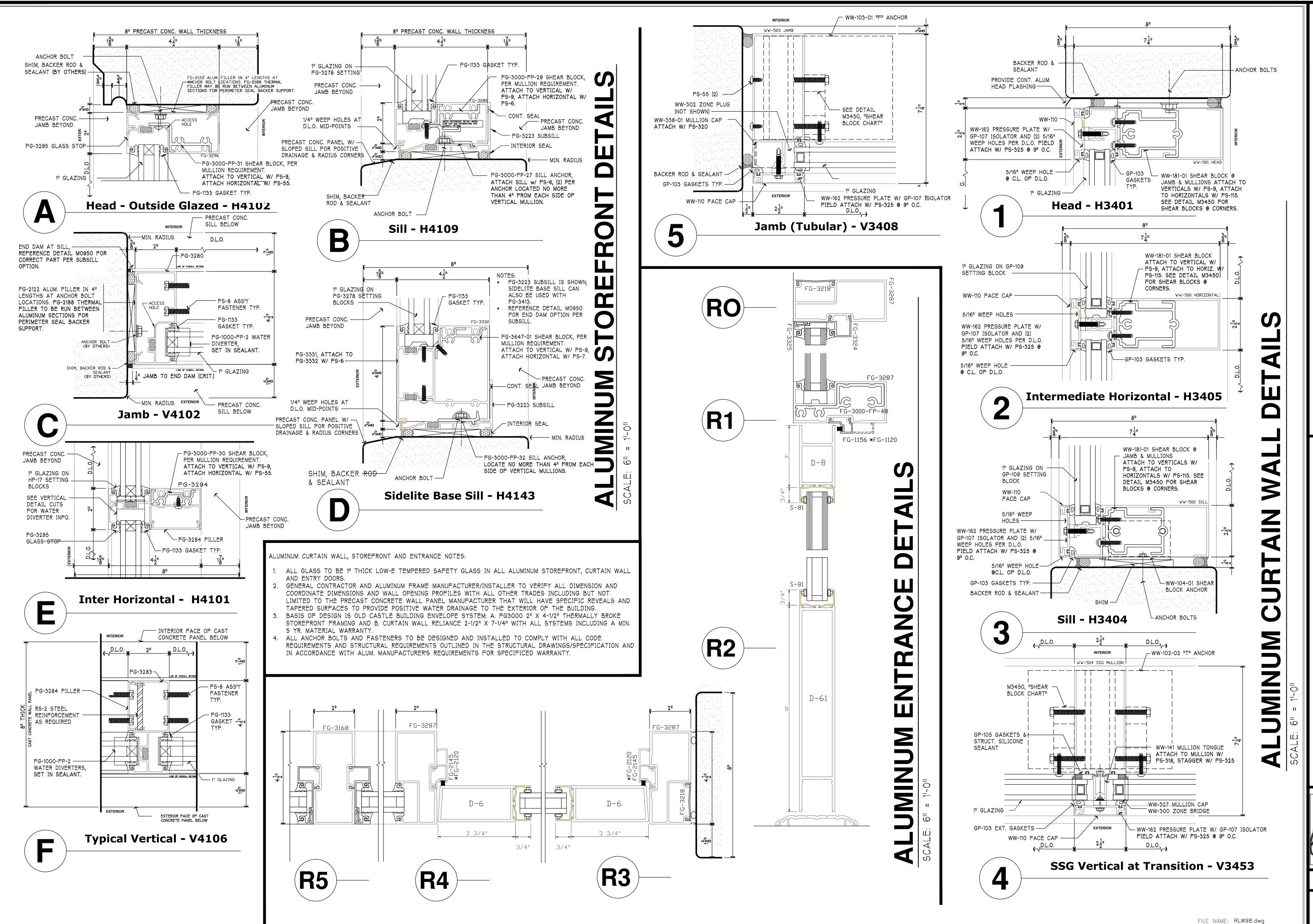
LOCATION

DIAGRAM

€ DEADLOCK

3'-11 1 1 1 1

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RICHARD L. WORLEY ALL ANDRING 28750

SYLVAN VALLEY INDUSTRIAL PARK

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мет **А11**

- 1. Install roofing, insulation, flashings, and accessories in accordance with roofing Manufacturer's published instructions and recommendations for the specified TPO roofing system. Where Manufacturer provides no instructions or recommendations, follow National Roofing Contractors Association industry standards and SMACNA manual requirements. All work to comply with federal, state, and local codes and regulations.
- 2. Obtain all relevant manufacturer's instructions and procedures maintaining copies of such documentation at project site for duration of installation period.
- 3. Do not start work until Pre-Installation Notice has been approved by Owner and Manufacturer and that the Project qualifies for the specified Manufacturer's warranty.
- 4. Perform work using competent and properly equipped personnel with minimum 5 years of experience of the system installed on this project.
- 5. Temporary closures, which ensure that moisture does not damage any existing building areas as well as completed section of the new roofing system, are the responsibility of the Contractor. Completion of flashings, terminations, and temporary closures shall be completed as required to provide a watertight condition.
- 6. Install roofing membrane only when surfaces are clean, dry, smooth, and free of snow or ice. Do not apply roofing membrane during inclement weather or when ambient conditions will not allow proper application. Consult Manufacturer for recommended procedures during cold weather. Do not work with sealants and adhesives when material temperature is outside the range of 60 to 80 °F (15 to 25 °C).
- 7. Protect adjacent construction, property, vehicles, and persons from damage related to roofing work; repair or restore damage caused by roofing work.
- 8. Protect from spills and overspray from bitumen, adhesives, sealants, and coatings.
- 9. Particularly protect metal, glass, plastic, and painted surfaces from bitumen, adhesives, and sealants within the range of wind-borne overspray.
- 10. Protect finished areas of the roofing system from roofing related work traffic and traffic by other trades.
- 11. Until ready for use, keep materials in their original containers as labeled by the Manufacturer.
- 12. Consult membrane Manufacturer's instructions, container labels, and Safety Data Sheets (SDS) for specific safety instructions. Keep all adhesives, sealants, primers, and cleaning materials away from all sources of ignition.

Examination

- 1. Examine roof deck to determine that it is sufficiently rigid to support installers and their mechanical equipment, and that deflection will not strain or rupture roof components or deform deck.
- 2. Verify that surfaces and site conditions are ready to receive work. Correct defects in the substrate before commencing with roofing work. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
- 3. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.

4. Examine roof substrate to verify that it is properly sloped to drains.

5. Verify that the specifications and drawing details are workable and not in conflict with the roofing Manufacturer's recommendations and instructions; start of work constitutes acceptance of project conditions and requirements.

Preparation

- 1. Prior to proceeding, prepare roof surface so that it is clean, dry, and smooth, and free of sharp edges, fins, roughened surfaces, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
- 2. Fill all surface voids in the immediate substrate that are greater than 1/4" (6 mm) wide with fill material acceptable to membrane Manufacturer.
- ${\it 3. \ \, Seal, grout, or tape\ deck\ joints, where\ needed,\ to\ prevent\ seepage\ into\ building.}$

Insulation and Cover Board Installation

- 1. Install insulation in configuration and with attachment method(s) specified in strict accordance with manufacturer's requirement to comply with warranty, specifications and the NC Building Code for Brevard, NC.
- 2. Install only as much insulation as can be covered with the completed roofing system before the end of the day's work or before the onset of inclement weather.
- 3. Lay roof insulation in courses as specifically required by manufacturer to provide watertight installation and comply with all code requirement.
- 4. Neatly and tightly fit insulation to all penetrations, projections, and nailers, with gaps not greater than ¼" (6 mm). Fill gaps greater than ¼" (6 mm) with acceptable insulation. Do not leave the roofing membrane unsupported over a space greater than ¼" (6 mm).
- 5. Mechanical Fastening: Using specified fasteners and insulation plates engage fasteners through insulation into deck to depth and in pattern required by Factory Mutual for specified FM Class and membrane Manufacturer, whichever is more stringent.
- 6. Adhesive Attachment: Apply in accordance with membrane Manufacturer's instructions and recommendations.

Single-Ply Membrane Installation

- 1. Beginning roof membrane in strict accordance with manufacturer's instructions/requirements and in accordance with project specification, placing membrane without stretching over substrate and allow to relax before attachment or splicing; in colder weather allow for longer relax time.
- 2. Lay out the membrane pieces so that field and flashing splices are installed to shed water.
- 3. Install membrane without wrinkles and without gaps or fishmouths in seams, and bond and test seams and laps in accordance with membrane Manufacturer's instructions and details.
- 4. Mechanically Attached Membrane: Fasten membrane using membrane Manufacturer's recommended fasteners and plates, fastener spacing, and procedures.
- 5. Edge Securement: Secure membrane at all locations where membrane terminates or goes through an angle change greater than: 1:12 inches (8.3%) using mechanically fastened reinforced perimeter fastening strips, plates, or metal edging as indicated or as recommended by roofing Manufacturer. Exceptions: Round pipe penetrations less than 18" (460 mm) in diameter and square penetrations less than 4" (200 mm) square.
- a) Metal edging; ensure anchorage of membrane as intended by roofing Manufacturer and compliant with IBC.

F. FLASHING AND ACCESSORIES INSTALLATION

- 1. Install flashings, including laps, splices, joints, bonding, adhesion, and attachment, as required by membrane Manufacturer's recommendations and details. There are special flashing conditions that will require special attention by the manufacturer in indicate required details that will be fully warranted by the Manufacture.
- 2. Metal Accessories: Install metal edgings, gravel stops, and copings in locations indicated on the drawings, with horizontal leg of edge member over membrane and flashing over metal onto membrane.
- a) Follow roofing Manufacturer's instructions.
- b) Use weldable TPO-coated metal where membrane-to-metal connections occur.
- c) Remove protective plastic surface film immediately before installation.
- d) Install water block sealant under the membrane anchorage leg.
- e) Flash with Manufacturer's recommended flashing sheet unless otherwise indicated.
- f) Where single application of flashing will not completely cover the metal flange, install additional piece of flashing to cover the metal edge.
- g) If the roof edge includes a gravel stop and sealant is not applied between the laps in the metal edging, install an additional piece of self-adhesive flashing membrane over the metal lap to the top of the gravel stop; apply seam edge treatment at the intersections of the two flashing sections.
- 3. Roofing Expansion Joints to be Installed as recommended by roofing Manufacturer.
- 4. Flashing at Walls, Curbs, and Other Vertical and Sloped Surfaces:
- a) Install weathertight flashing at all walls, curbs, parapets, skylights, and other vertical and sloped surfaces that the roofing membrane abuts to; extend flashing at least 8" (200 mm) above membrane surface and/or as detailed.
- b) Use the longest practical flashing pieces.
- c) Evaluate the substrate and overlay and adjust installation procedure in accordance with membrane Manufacturer's recommendations
- d) Complete the splice between flashing and the main roof sheet with manufacturer's required splice adhesive before adhering flashing to the vertical surface.
- e) Provide termination directly to the vertical substrate as shown on roof drawings.
- 5. Pipes, Round Supports, and Similar Items: Flash with specified pre-molded pipe flashings wherever practical; otherwise use specified self-curing elastomeric flashing.
- 7. Pipe Clusters and Unusual Shaped Penetrations: Provide penetration pocket at least 2" (50 mm) deep, with at least 1" (25 mm) clearance from penetration, sloped to shed water.
- 8. Structural Steel Tubing: If corner radii are greater than ½" (6 mm) and longest side of tube does not exceed 12" (305 mm), flash as for pipes; otherwise, provide a standard curb with flashing.
- 9. Flexible and Moving Penetrations: Provide weathertight gooseneck set in sealant and secured to deck, flashed as recommended by Manufacturer.

G. Field Quality Control

- 1. Inspection by Manufacturer: Provide final inspection of the roofing system by a Technical Representative employed by roofing system Manufacturer specifically to inspect installation for warranty purposes (e.g., not a sales representative). This inspector is to provide a full report to the Owner/Architect of the inspection including but not limited to unacceptable issues that are to be corrected.
- 2. Perform all corrections necessary for issuance of warranty.

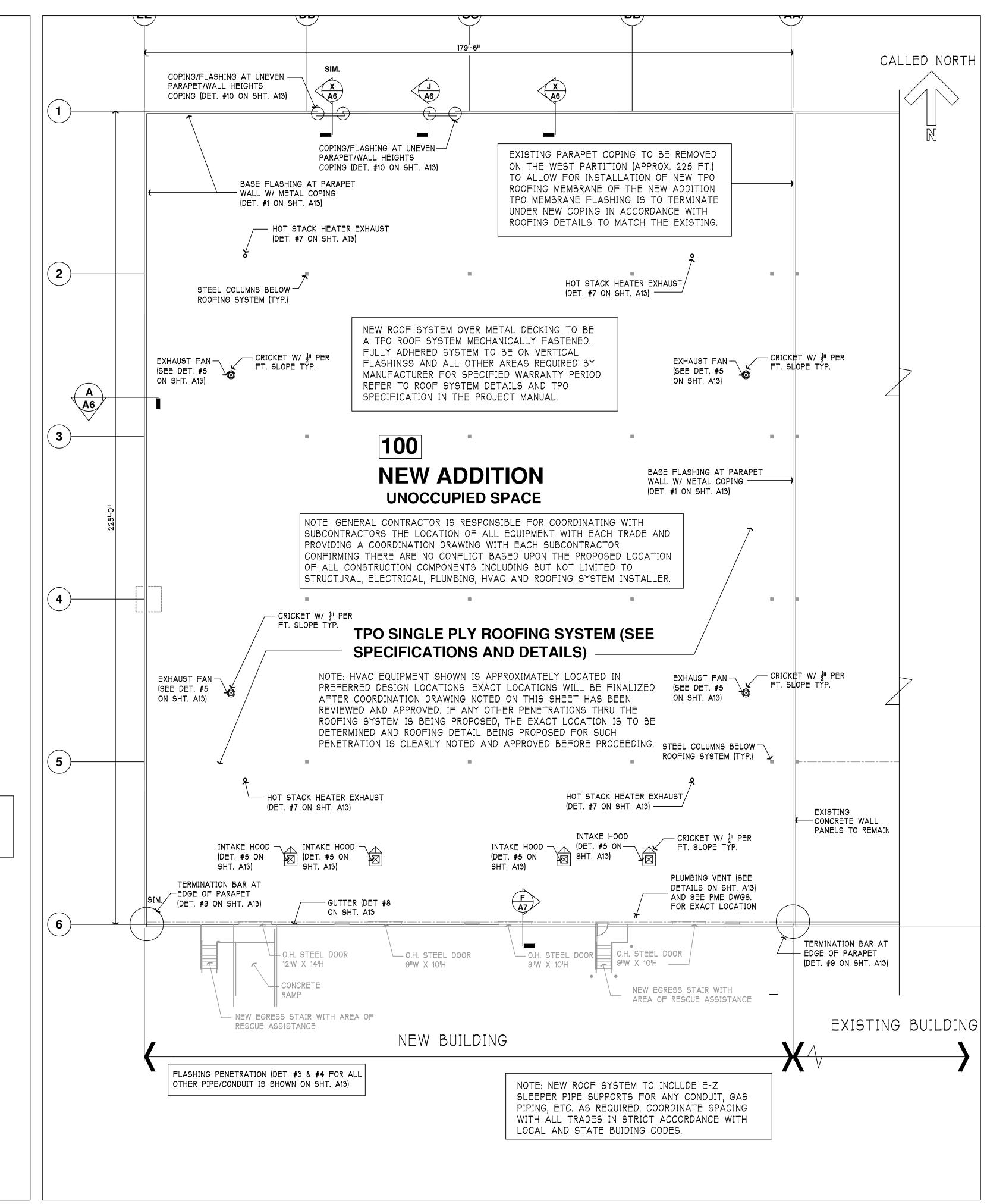
H. Cleaning

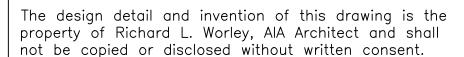
- Clean all contaminants generated by roofing work from building and surrounding areas, including bitumen, adhesives, sealants, and coatings.
- 2. Repair or replace building components and finished surfaces damaged or defaced due to the work of this section; comply with recommendations of Manufacturers of components and surfaces.
- 3. Remove leftover materials, trash, debris, equipment from project site and surrounding areas.

I. Protection

 Where construction traffic must continue over finished roof membrane, provide durable protection, and replace or repair damaged roofing to original condition.

NOTE: REFER TO PROJECT MANUAL FOR THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING SECTION 075423 AS WELL AS OTHER SECTIONS PROVIDING ADDITIONAL INFORAMTION FOR ROOFING REQUIREMENTS.





ROOF PLAN AND NOTES

SCALE: 1/16" = 1'-0"

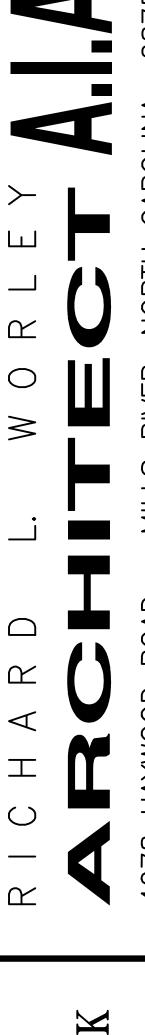
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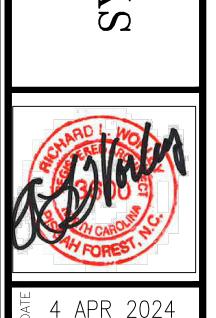
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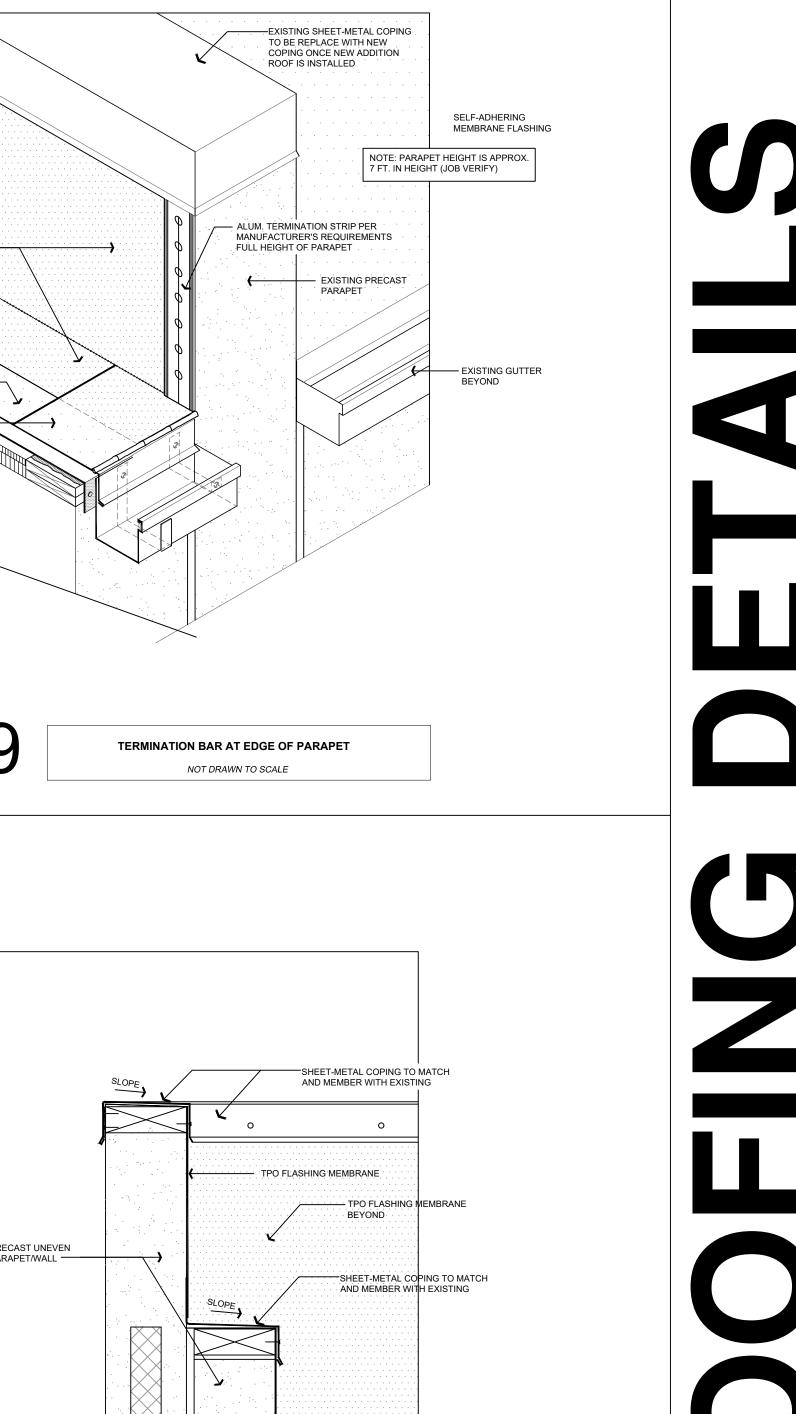
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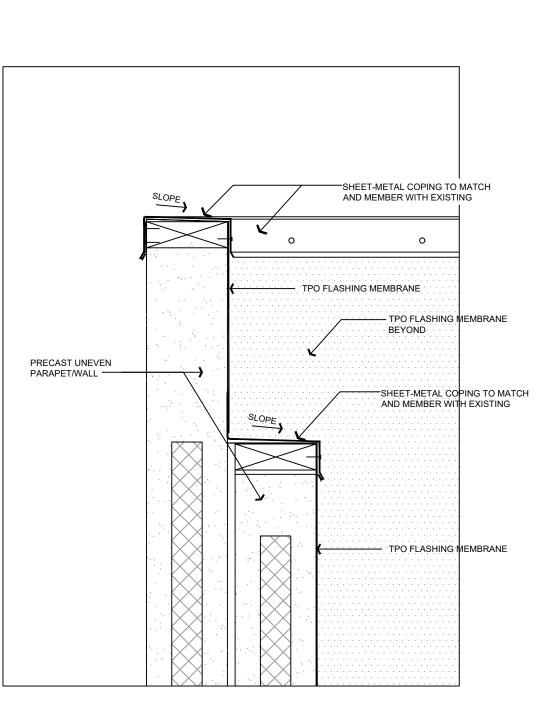




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COPING/FLASHING AT UNEVEN PARAPET/WALL HEIGHTS NOT DRAWN TO SCALE

ROOFTOP EQUIPMENT FRAME METAL CURB -GASKETED FASTENERS--MIN. TWO FASTENERS REMOVABLE SHEET-METAL COUNTERFLASHING WOOD NAILER ATTACHED FASTENERS APPROX. 8" O.C., MIN. TWO PER SIDE WOOD NAILER —BONDING ADHESIVE PREFABRICATED CORNER FLASHING PIECE AT EACH CORNER--SEAL ALL EXPOSED EDGES SEALANT (IF REQUIRED FOR THE **CURB-BEARING LOADING** HOT-AIR-WELDED SEAM ONDITIONS SEE STRUCTURAL -SEAM PLATES AND FASTENERS--SEE 2 X 6 MIN WOOD NAILER — ATTACHED TO SUBSTRATE--OVERALL THICKNESS TO MATCH INSULATION 1. THE CURBS, TOP WOOD NAILER AND SEAL STRIP ARE TO BE COORDINATED WITH THE CURB MANUFACTURER. 2. THE MECHANICAL UNITS SHOULD NOT BE SET UNTIL THE ROOF MEMBRANE AND FLASHING HAVE BEEN INSTALLED, COORDINATE WITH OTHER TRADES AS REQUIRED. 2. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING 3 WHERE THE SKYLIGHT, SCUTTLE OR SMOKE VENT FRAME OVERLAPS THE BASE FLASHING AT LEAST 3 INCHES, THE REMOVABLE SHEET-METAL COUNTERFLASHING IS NOT REQUIRED 3. METAL COPING IS TO MATCH AND MEMBER WITH EXISTING HEIGHT AND PROFILES 4.REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL ARCHITECTURAL METAL FLASHING AND THE LATEST SMACNA MANUAL. **BASE FLASHING AT PREFABRICATED METAL CURB** NOT DRAWN TO SCALE

_DRAWBAND WITH COMPATIBLE SEALANT BEHIND DRAWBAN PLUMBING VENT STACK _ SEALANT (IF REQUIRED FOR THE SPECIFIC SYSTEM) HOT-AIR-WELDED MEMBRANE FLASHING (EXTENDED APPROX. 3" BEYOND FLANGE) HOT-AIR-WELDED SEAM

1, VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING. SEE THE INTRODUCTION TO THE CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION. 2. REFER TO MANUFACTURERS' SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR BASE 3. REFER TO SECTION 10.1--INFORMATION APPLICABLE TO ALL CONSTRUCTION DETAILS FOR

PIPE MUST BE ANCHORED TO ENSURE STABILITY

NO WRINKLES OR FOLDS UNDER CLAMPING RING. . ACCEPTABLE MEMBRANE ADHESIVE REQUIRED

. MUST BE USED WHEN SERVICE LINE TEMP.

REQUIRED BY MANUFACTURER. . FASTENER AND HD SEAM PLATE AS REQUIRED

2" (50.8 mm) MIN.

TPO FLASHING MEMBRANE

TPO ROOFING MEMBRANE

SELF-ADHERING -MEMBRANE FLASHING

PLUMBING VENT [FIELD WRAP] NOT DRAWN TO SCALE

ADDITIONAL INFORMATION.

ACCEPTABLE ELEVATE BONDING ADHESIVE -

SUBSTRATE

FASTENER AND HD OR HD PLUS SEAM PLATE @ 12" (304.8 mm) O.C. MAX

ULTRAPLY TPO FLASHING

WELDED SPLICE

HOT-AIR-WELDED -DRAWBAND WITH MEMBRANE FLASHING COMPATIBLE SEALANT (IF REQUIRED FOR FLANGED CABLE[™] PENETRATION FLASHING HOT-AIR-WELDED SEAM -

SHEET-METAL COPING-

TO SUBSTRATE

BONDING ADHESIVE ADHERED MEMBRANE

── HOT-AIR-WELDED SEAM

-SEALANT (IF REQUIRED

FOR THE SPECIFIC

SEAM PLATES AND

-PLUMBING VENT STACK

INSTALL SEALANT OR SEALANT

PRE-MANUFACTURED

MEMBRANE FLASHING

PRE-MANUFACTURED

APPROX. 6" O.C.

EXTENDED BELOW

MANUAL AND LATEST SMACNA MANUAL

DRAWINGS.

AND MUST COMPLY WITH ALL REQUIREMENTS OF THE ROOFING MANUFACTURE. SHOULD ANY MANUFACTURER'S REQUIREMENTS CONFLICT WITH MATCHING THE

BASE FLASHING AT PARAPET WALL W/ METAL COPING

NOT DRAWN TO SCALE

1 VENT STACKS AND OTHER PIPES SHOULD HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS AND OTHER PROJECTIONS TO

2.FLASHINGS TO BE 8 INCHES HIGH; COORDINATE PRE-MANUFACTURED BOOT

4. REFER TO SECTION 10.1--INFORMATION APPLICABLE TO ALL CONSTRUCTION

DETAILS FOR ADDITIONAL INFORMATION.

DETAILS FOR ADDITIONAL INFORMATION.

BASE MEMBRANE ATTACHMENT.

FLASHINGS TO MEET THE HEIGHT REQUIREMENT.

FACILITATE PROPER FLASHING. SEE THE INTRODUCTION TO THE CONSTRUCTION

3. REFER TO MANUFACTURERS' SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR

PLUMBING VENT [PRE-MANUFACTURED BOOT]

NOT DRAWN TO SCALE

EXISTING SUCH CONFLICTS ARE TO BROUGHT TO THE ATTENSION OF THE OWNER/ARCHITEC AND ARE TO BE CLEARLY NOTED ON REQUIRED SHOP

MEMBRANE -

NAILER AND

SECURED .

1. DETAIL DEPICTS THE WEATHERPROOFING PROTECTION AND DOES NOT REPRESENT LIGHTNING PROTECTION DESIGN. 2. REFER TO SECTION 10.1--INFORMATION APPLICABLE TO ALL CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

CABLE PENETRATION NOT DRAWN TO SCALE

NOTE:

1. PIPE MUST BE ANCHORED TO ENSURE STABILITY. 2. PRE-MOLDED PIPE FLASHING MAY BE CUT TO HEIGHT, BUT NO LOWER THAN REINFORCING RI NO WRINKLES OR FOLDS UNDER CLAMPING RING FLANGE MUST BE FLAT). 5. APPLY SEALANT BETWEEN PENETRATION AND PRE-MOLDED PIPE FLASHING PRIOR TO INSTALLATION OF CLAMPING RING. 6. PRE-MOLDED PIPE FLASHING FITS 1" (25.4 mm) - 6" (152.4 mm) PENETRATIONS SIZES. GRADE SEALANT . DO NOT USE WHEN SERVICE LINE TEMP. EXCEEDS CONTINUOUS BEAD OF AP SEALANT 160 °F (71.11 °C), REFER TO UT-P-06 & UT-P-07 FIELD FABRICATED METAL HOOD BY . PIPE BOOT MUST NOT BE TWISTED, CUPPED OR CU PRE-MOLDED TPO PIPE FLASHING -HD PLUS SEAM PLATE @ 12" (304.8 mm) O.C. MAX - TPO MEMBRANE — 3" (76.2 mm) — - CONTINUOUS BEAD OF SUBSTRATE

PENETRATION WITH TPO QUICKSEAM PIPE FLASHING NOT DRAWN TO SCALE

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 BONDING ADHESIVE SEALANT (IF REQUIRED FOR THE SPECIFIC SYSTEM) SELF-ADHERING MEMBRANE FLASHING 2 X 6 MIN. WOOD NAILER SHEET-METAL EDGE FLASHING--ATTACHED TO SUBSTRATE OVERALL THICKNESS TO MATCH INSULATION -GUTTER SPACERS **INSTALLED BETWEEN** TPO ROOFING-**GUTTER BRACKETS TO** MAINTAIN STRAIGHT GUTTER EDGE. INSULATION-STRUCTURAL METAL DECK ----APPROX. 10"X8" CONT. .063 THK. ALUMINUM GUTTER (MATCH EXISTIN CONCRETE -WALL PANELS BE A MIN 1-1/2" I OWER THAN THE BACK TO ALLOW OVERFLOW, SEE TH FIFI D SHEET OR SEPARATE SECTION OF THE NRCA ROOFING MEMBRANE SHEET EXENDED / BELOW BLOCKING STIFFENING BAR AS 1/4"X2" ALUM. GUTTER REQUIRED -BRACKET SUPPORT AT 1. COORDINATE DETAILS WITH EXISTING CONDITIONS. FIELD VERIFY AND CONSULT ARCH/OWNER WITH ANY DISCREPANCIES REGUARDING STRUCTURE AND SUBSTATE TO MATCH EXISTING. 2. GUTTER BRACKETS ARE RECOMMENDED TO BE AT LEAST ONE GAUGE HEAVIER THAN GUTTER STOCK

PENETRATION (HOT STACK) WITH TPO FLASHING (UNSUPPORTED)

NOT DRAWN TO SCALE

3. REFER TO THE ARCHITECTURAL METAL FLASHING SECTION OF THE NRCA ROOFING MANUAL ARCHITECTURAL METAL FLASHING, CONDENSATION CONTROL AND REROOFING--2010 FOR DESIGN JOINERY AND SECUREMENT OPTIONS FOR PERIMETER EDGE METAL. 4. REFER TO SECTION 10.1--INFORMATION APPLICABLE TO ALL CONSTRUCTION DETAILS FOR ADDITIONAL

GUTTER WITH PERIMETER EDGE METAL NOT DRAWN TO SCALE

1. CONTRACTOR TO PROVIDE COORDINATION DRAWINGS THAT INCLUDE A COOPERATIVE EFFORT BETWEEN VARIOUS TRADES TO SUCCESSFULLY PLACE ALL EQUIPMENT AND MATERIALS THAT PENETRATE THROUGH ROOF SYSTEM IN ORDER TO PROVIDE A ROOF SYSTEM LAYOUT THAT IS APPROVED BY ROOFING MANUFACTURER IN ACCORDANCE WITH THE 20 YEAR ROOF WARRANTY. ALL OTHER TRADES ARE TO APPROVE THE LAYOUT AND CONFIRM THAT THEY HAVE VERIFIED THAT THEIR WORK IS COMPATIBLE WITH THE ROOFING SHOP DRAWINGS.

NOTES:

2. ROOF SYSTEM TO SLOPE TO GUTTER A 1/4" PER FOOT THE INTENT IS TO MATCH EXISTING SLOPE AND HEIGHT OF GUTTER AS WELL AS THE ROOF MEMBRANE IN ORDER TO TERMINATION APPROPRIATELY AT THE GUTTER AND PROVIDE POSITIVE DRAINAGE.

3. REFER TO SECTIONS #75423 "THERMOPLASTIC POLYOLEFIN (TPO) ROOFING", #76200 "SHEET METAL FLASHING AND TRIM AND #77200 "ROOF ACCESSORIES" FOR ADDITIONAL INFORMATION

4. PROVIDE NEW LOW SLOPED INSULATED TPO ROOF SYSTEM W/ CRICKETS (SLOPE 1 PER FOOT) AT ALL ROOF TOP EQUIPMENT AS REQUIRED FOR POSITIVE DRAINAGE TO NEW

4. PROTECT EXISTING BUILDING FROM WATER INFILTRATION DURING APPLICATION OF PERMANENT TPO ROOF SYSTEM ON NEW ADDITION AND THROUGHOUT THE CONSTRUCTION PROCESS KEEPING INTERIOR OF NEW AND EXISTING BUILDING WATERTIGHT

5. CONTRACTOR TO SUBMIT CERT. OF KEY PERSONNEL MANUFACTURER'S FACTORY MUTUAL APPROVALS AND SHOP DRAWINGS (SEE PROJECT MANUAL).

6. PROTECT ALL ROOFING MEMBRANE WITH SHEATHING AT ALL ROOF ACCESS AREAS DURING CONSTRUCTION AND SCHEDULE WORK ON THE ROOF AREA TO MINIMIZE POTENTIAL DAMAGE TO ALL WORK THAT HAS BEEN COMPLETED.

7. ALL SHEET METAL WORK SUCH AS BUT NOT LIMITED TO GUTTER, DOWNSPOUTS, ROOF TRIM, ETC. TO BE FABRICATED IN ACCORDANCE WITH AMACNA Architectural Sheet Metal Manual.