



ARCHITECTS

LS3P ASSOCIATES LTD. 701-A Lady St., Columbia, SC 29201 tel: 803-765-2418 fax: 803-765-2419

HORRY COUNTY SCHOOLS WATERWAY ES ROOFING RENOVATION **BID DOCUMENTS** 04/22/22 **LS3P PROJECT #2201-218720**

BUILDING ENVELOPE

WM BUILDING ENVELOPE CONSULTANTS, LLC **512 Limestone Point Chapin, SC 29036** tel: 803-260-4532

PLUMB./MECH./ELEC./FP

BUFORD GOFF AND ASSOCIATES, INC. 1331 Elmwood Ave., Suite 200 Columbia, SC 29201 tel: 803-254-6302 fax: 803-771-6142

INDEX OF SHEETS

GENERAL

COVER SHEE

ARCHITECTURAL

A-400	OVERALL EXISTING ROOF PLAN
A-401	OVERALL EXISTING ROOF PLAN (IR SCAN)
A-501	PARTIAL EXISTING ROOF PLAN
A-502	PARTIAL EXISTING ROOF PLAN
A-503	PARTIAL EXISTING ROOF PLAN
A-504	PARTIAL EXISTING ROOF PLAN
A-505	PARTIAL EXISTING ROOF PLAN
A-506	PARTIAL EXISTING ROOF PLAN
A-507	PARTIAL EXISTING ROOF PLAN
A-601	PARTIAL NEW ROOF PLAN (BASE BID)
A-602	PARTIAL NEW ROOF PLAN (BASE BID)
A-603	PARTIAL NEW ROOF PLAN (BASE BID)
A-604	PARTIAL NEW ROOF PLAN (BASE BID)
A-605	PARTIAL NEW ROOF PLAN (BASE BID)
A-606	PARTIAL NEW ROOF PLAN (ALT. NO.1)
A-607	PARTIAL NEW ROOF PLAN (ALT. NO.2)
A-701	PARTIAL NEW ROOF PLAN (BASE BID & ALT. NO.3)
A-702	PARTIAL NEW ROOF PLAN (BASE BID & ALT. NO.3)
A-703	PARTIAL NEW ROOF PLAN (BASE BID & ALT. NO.3)
A-704	PARTIAL NEW ROOF PLAN (BASE BID & ALT. NO.3)
A-705	PARTIAL NEW ROOF PLAN (BASE BID & ALT. NO.3)
A-706	PARTIAL NEW ROOF PLAN (ALT. NO.1 & ALT. NO.3)
A-707	PARTIAL NEW ROOF PLAN (ALT. NO.2 & ALT. NO.3)
A-800	DETAILS
A-801	DETAILS
A-900	DETAILS
A-901	DETAILS

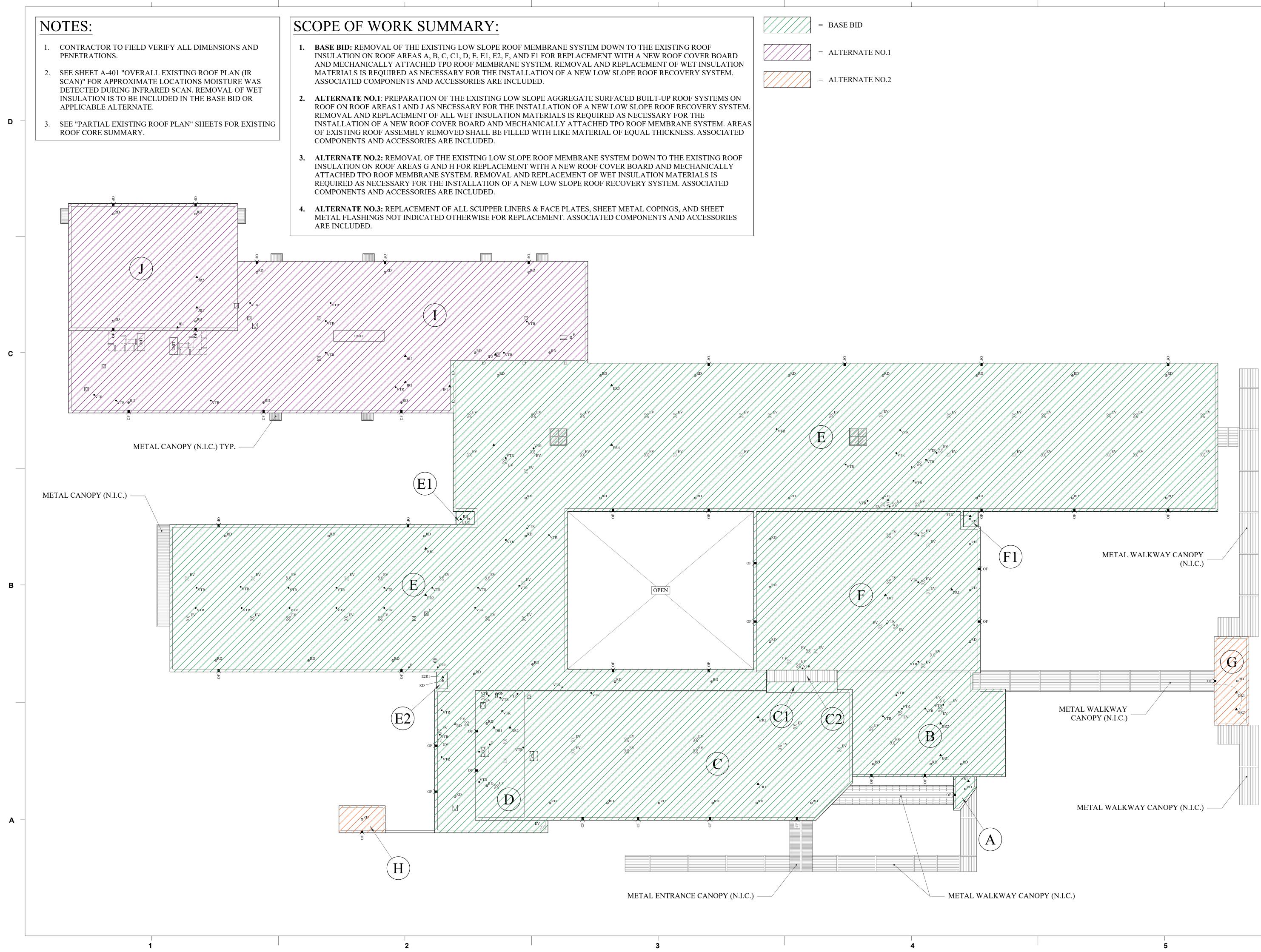
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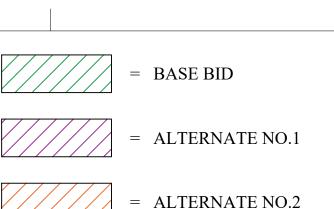
M-101	FLOOR PLAN - HVAC - DEMOLITION
M-102	ROOF PLAN - HVAC - DEMOLITION
M-201	FLOOR PLAN - HVAC - RENOVATION
M-202	ROOF PLAN - HVAC - RENOVATION
M-301	HVAC SCHEDULES & NOTES
M-401	HVAC DETAILS
M-402	HVAC DETAILS

ELECTRICAL

E-101

PARTIAL EXISTING ROOF PLAN - AREAS J & I - ELECTRICA







WATERWAY ES ROOFING RENOVATION

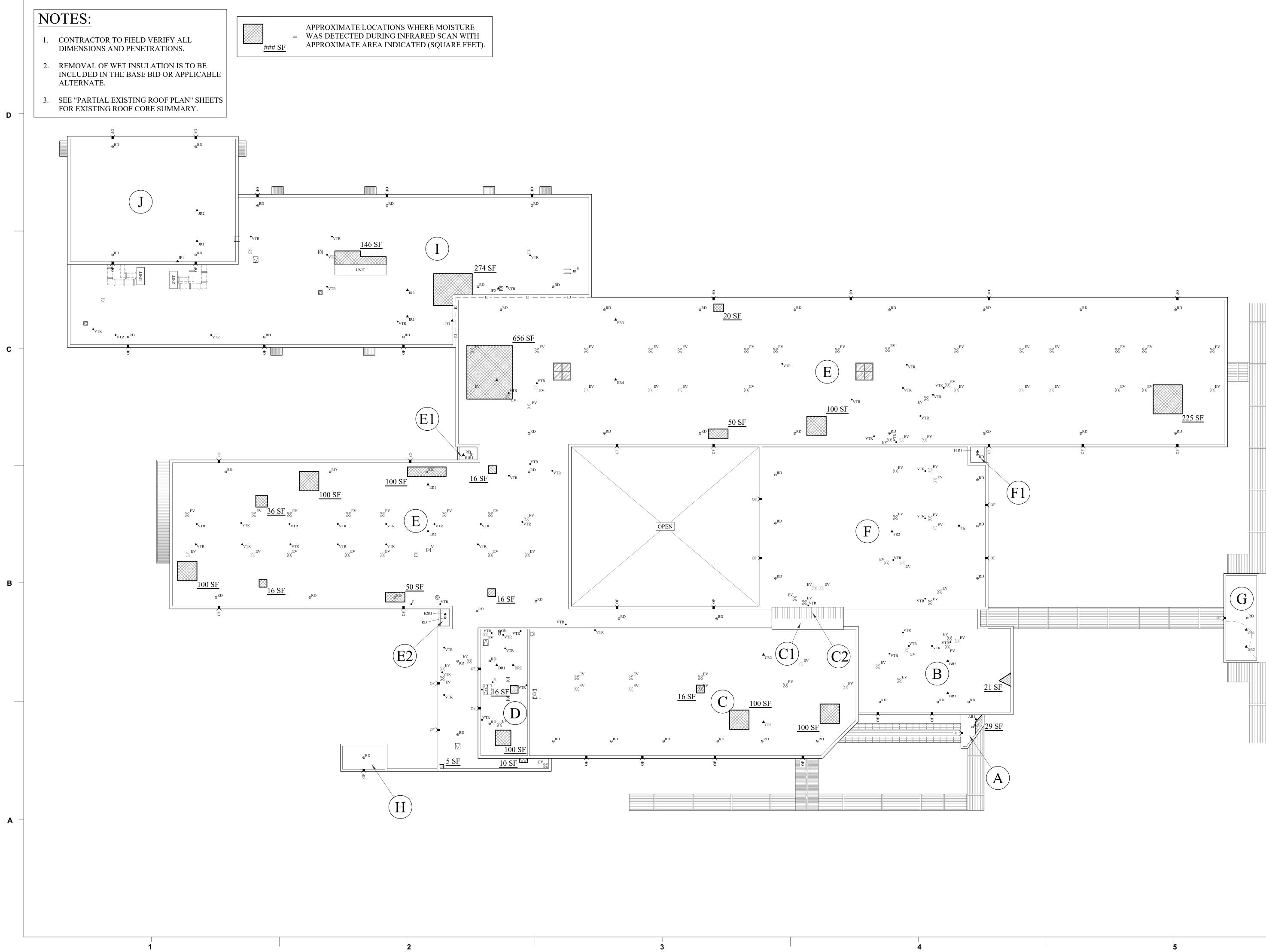




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No.	Desc	cription	Date
PF	ROJECT:	2201-218720	
DA	ATE:	04/22/22	
	RAWN BY:	PD	
	OVER EXIST PLAN		OF
	_	-40	0





WATERWAY ES ROOFING RENOVATION





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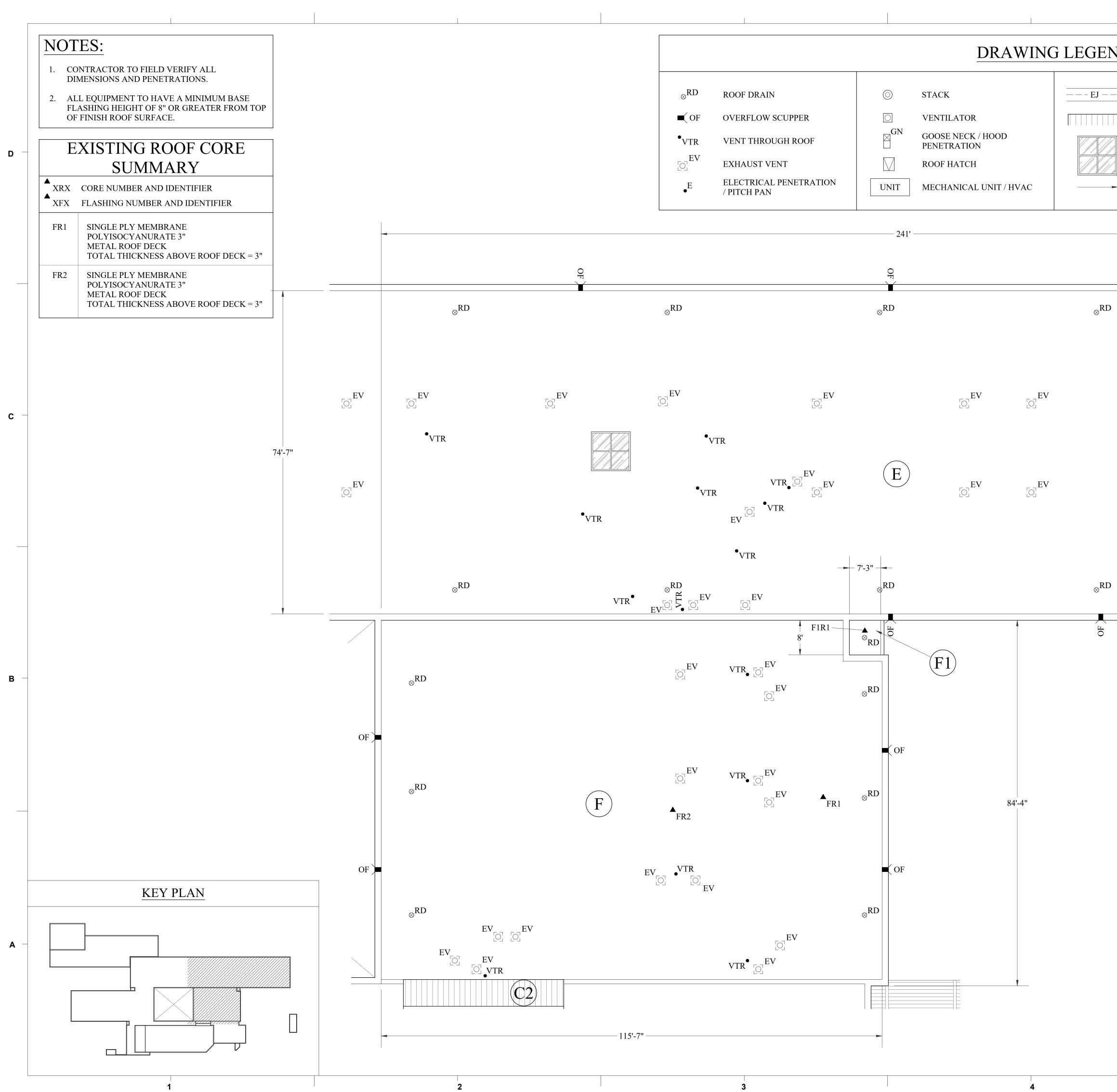
REVISIONS:					
No.	Description	Date			

PROJECT: DATE: DRAWN BY: PD CHECKED BY: CW

2201-218720 04/22/22

OVERALL **EXISTING ROOF** PLAN (IR SCAN)

A-401



09 PM ers\tyle1 22 1:37:

ND						
	EXPANSION JOINT METAL ROOF SYSTEM		MECHANICAL I WITH DUCT PE PARAPET WALI	NETRATION	Г N	Horry County Schools
	SKY LIGHT		EQUIPMENT SU	IPPORT CUI	RB	WATERWAY ES ROOFING RENOVATION
	SLOPE ARROW	XX	ROOF DESIGNA	TION		KENOVATION
			0			
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						REVISIONS: No. Description Date
						PROJECT: 2201-218720 DATE: 04/22/22 DRAWN BY: PD
						CHECKED BY: CW PARTIAL EXISTING ROOF PLAN
		12' 9' 6	' 3' 0 GRAPHIC SO	12' CALE	24'	A-501

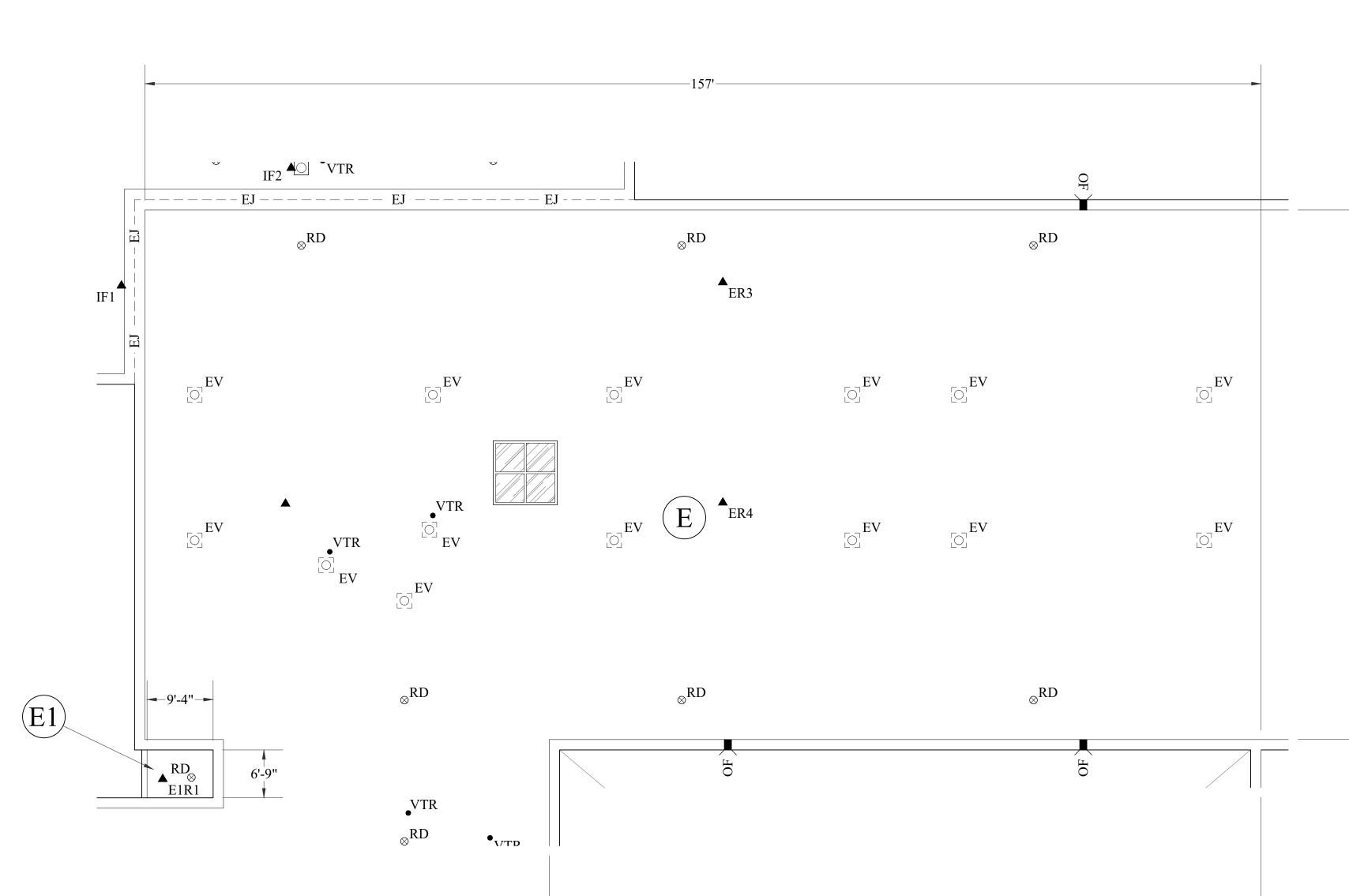
5

NOTES:

- 1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND PENETRATIONS.
- 2. ALL EQUIPMENT TO HAVE A MINIMUM BASE FLASHING HEIGHT OF 8" OR GREATER FROM TOP OF FINISH ROOF SURFACE.

EXISTING ROOF CORE SUMMARY

XRX XFX	CORE NUMBER AND IDENTIFIER FLASHING NUMBER AND IDENTIFIER
ER3	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"
ER4	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"

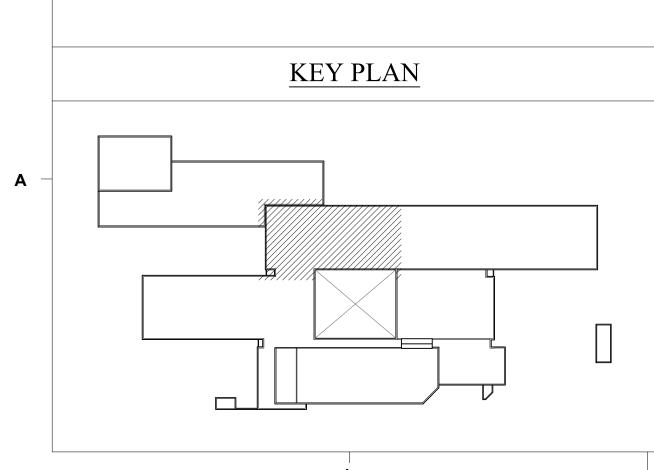




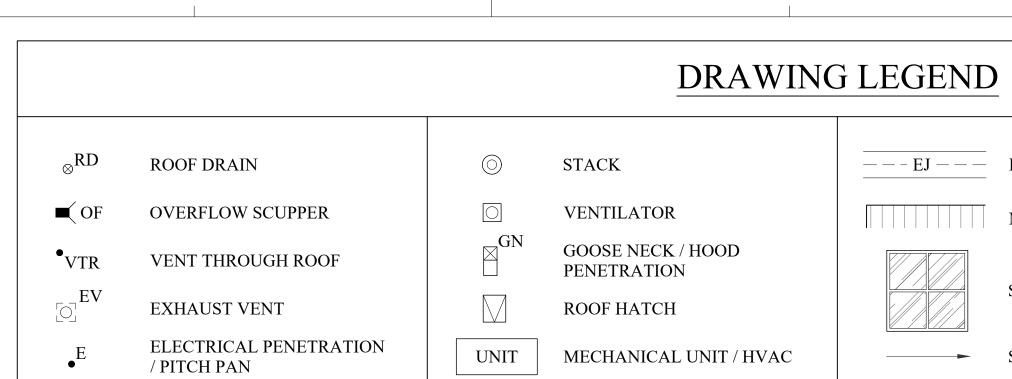
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2

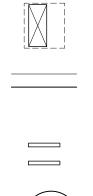


-100'-2"-

METAL ROOF SYSTEM

SKY LIGHT

SLOPE ARROW



(XX)

74'-7"

MECHANICAL EQUIPMENT WITH DUCT PENETRATION PARAPET WALL

EQUIPMENT SUPPORT CURB

ROOF DESIGNATION



WATERWAY ES ROOFING RENOVATION





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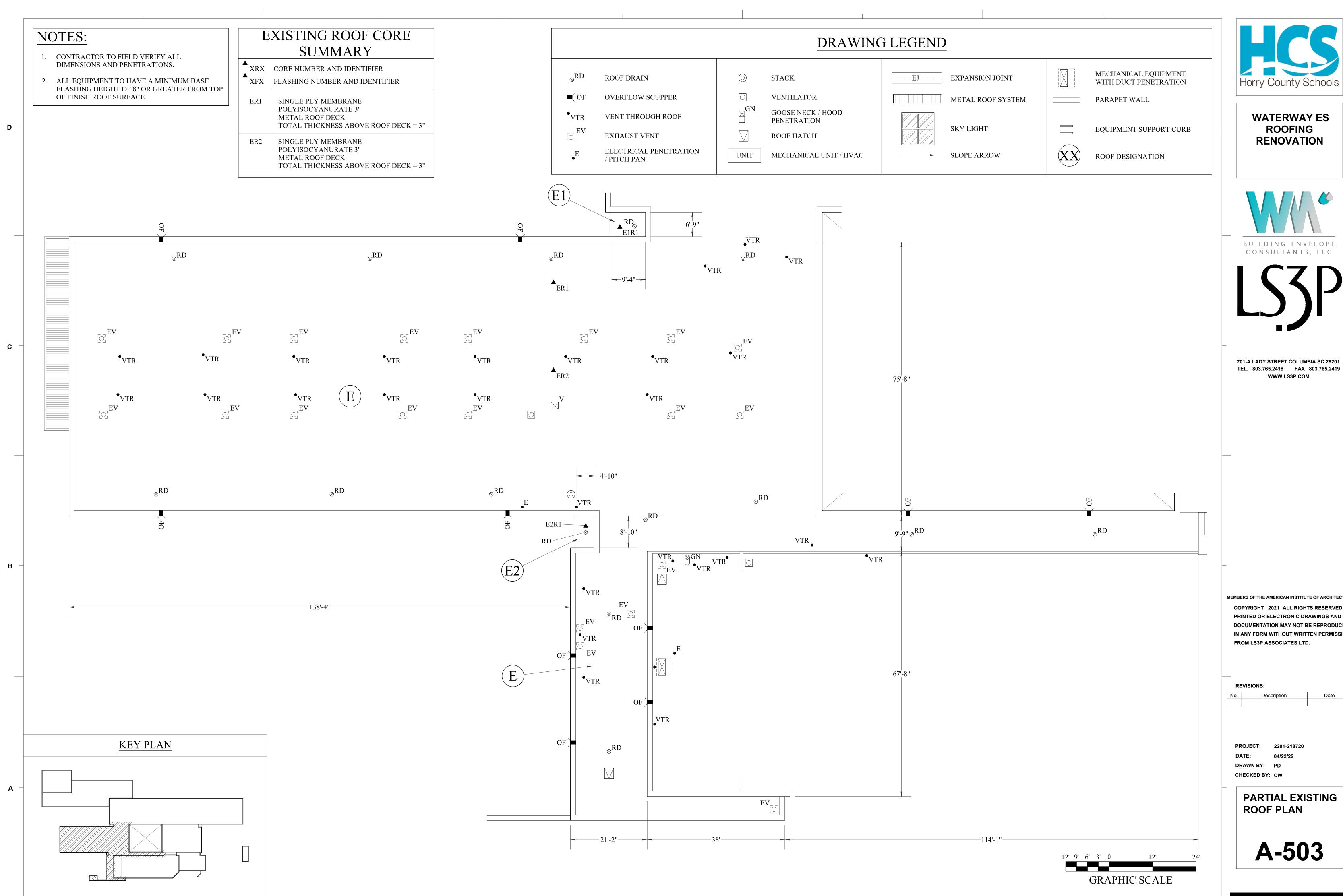
PROJECT: DATE: DRAWN BY: PD CHECKED BY: CW

2201-218720 04/22/22

PARTIAL EXISTING **ROOF PLAN A-502**

BID DOCUMENTS

2'	9'	6'	3'	0			12	2'	24'	
		<u>(</u>	GR	AP	HIC	C S(2	ALE		



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Date

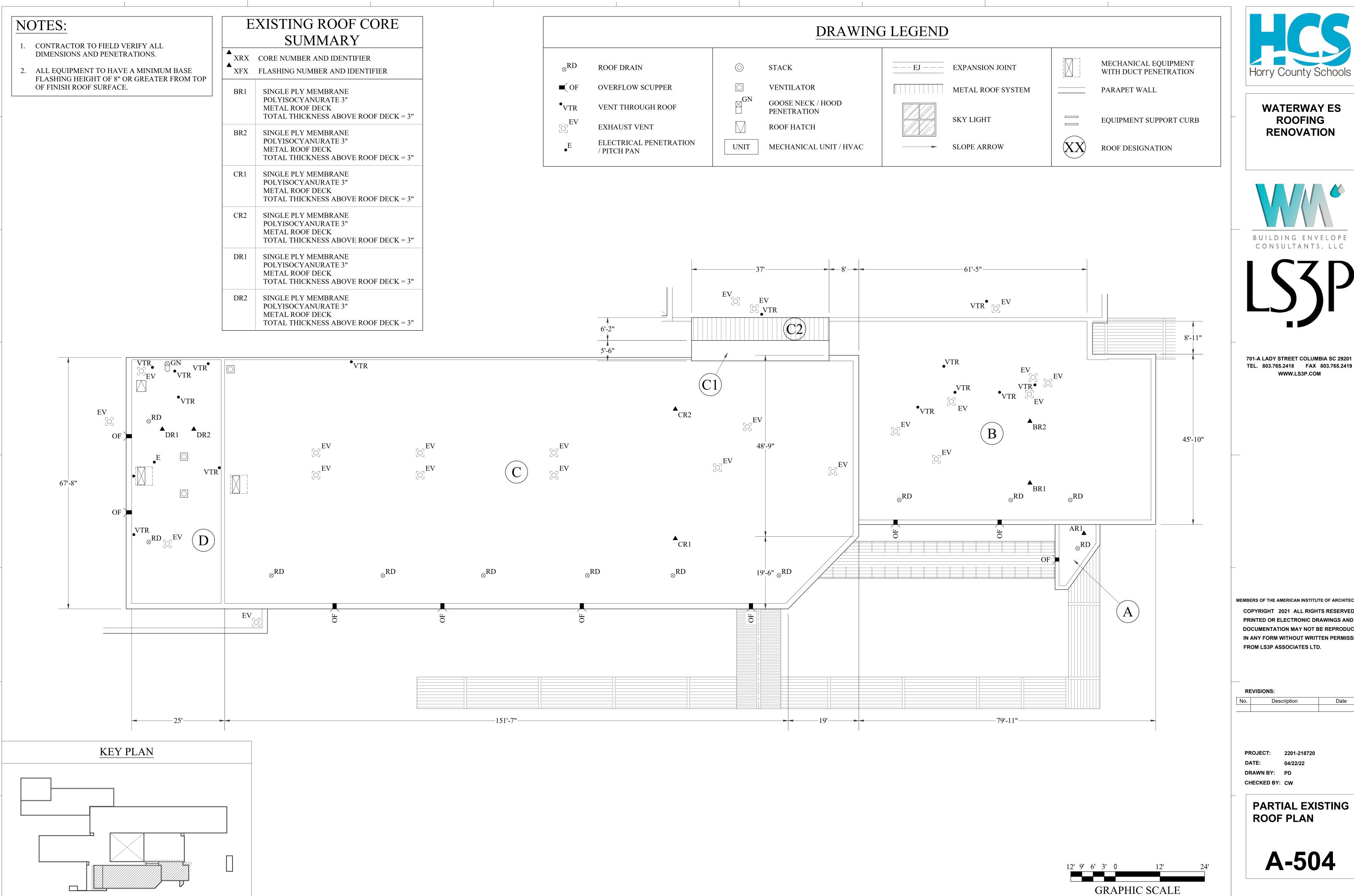
- DIMENSIONS AND PENETRATIONS.
- OF FINISH ROOF SURFACE.

▲ XRX	CORE NUMBER AND IDENTIFIER
XFX	FLASHING NUMBER AND IDENTIFIER
BR1	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"
BR2	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"
CR1	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"
CR2	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"
DR1	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"
DR2	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"

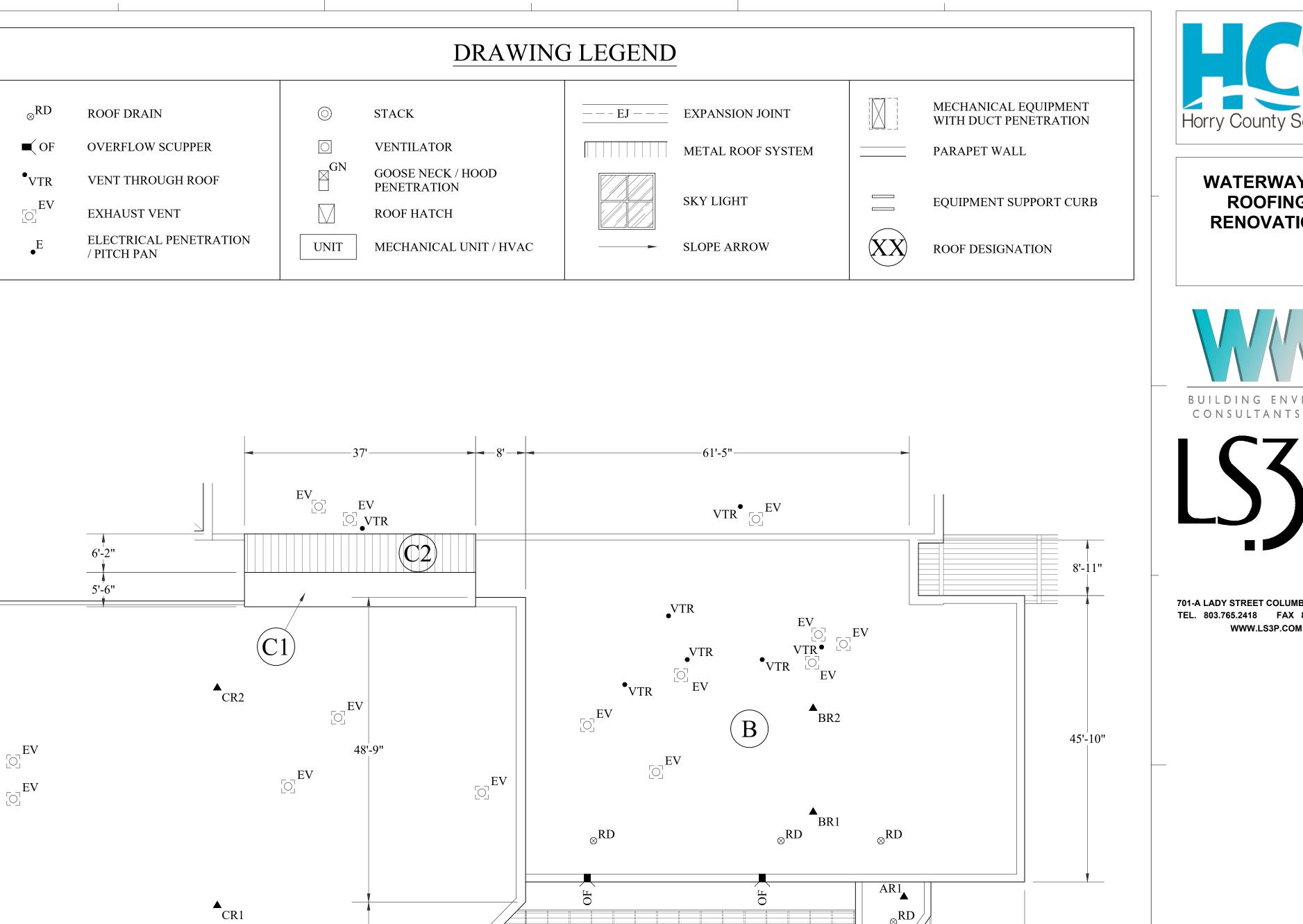


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Date PARTIAL EXISTING **A-504**

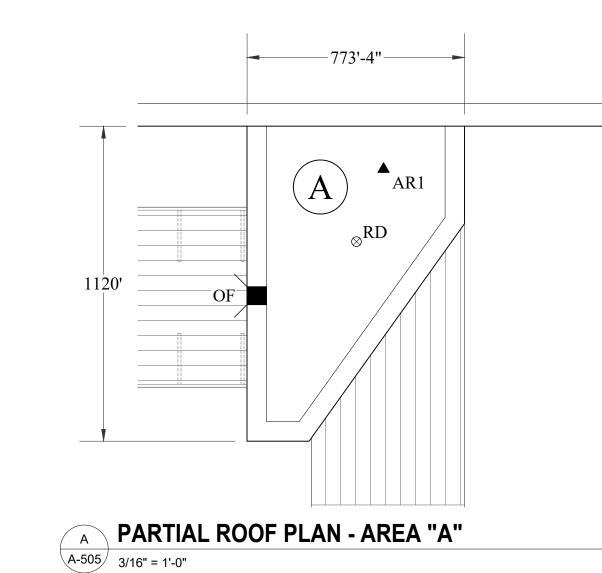
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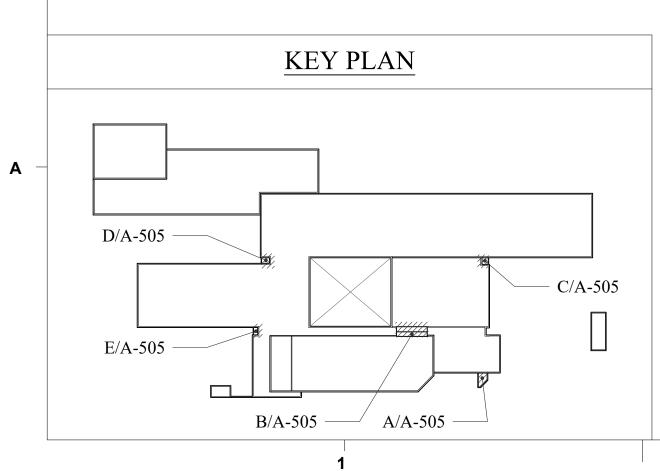
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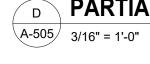
- 1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND PENETRATIONS.
- 2. ALL EQUIPMENT TO HAVE A MINIMUM BASE FLASHING HEIGHT OF 8" OR GREATER FROM TOP OF FINISH ROOF SURFACE.

EXISTING ROOF CORE SUMMARY

XRX	CORE NUMBER AND IDENTIFIER
XFX	FLASHING NUMBER AND IDENTIFIER
AR1	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"
E1R1	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"
E2R1	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"
F1R1	SINGLE PLY MEMBRANE POLYISOCYANURATE 5" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 5"



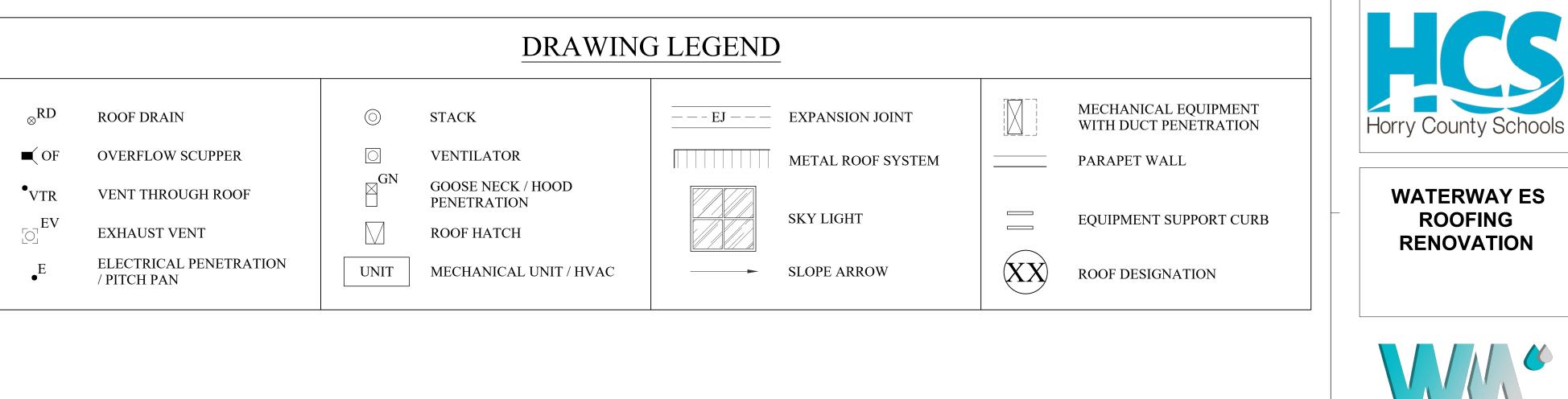


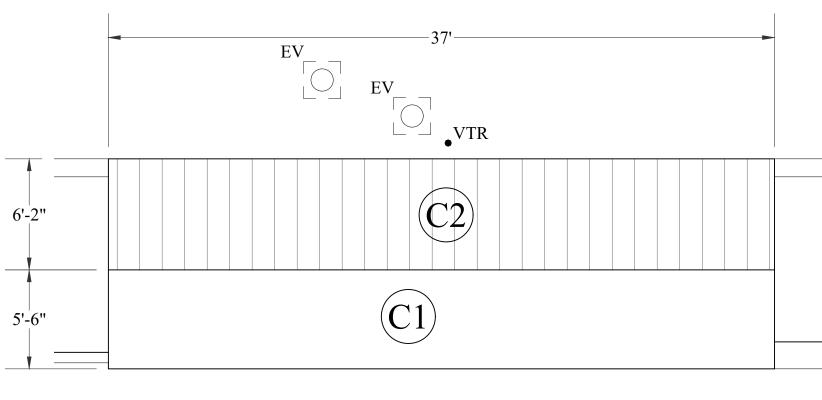


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В

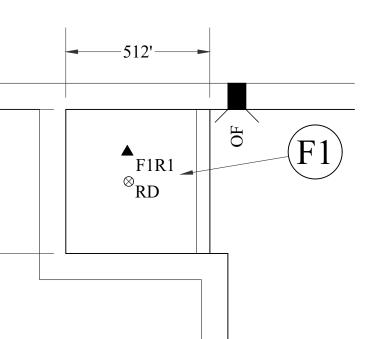
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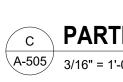
B PARTIAL ROOF PLAN - AREA "C1" AND "C2"

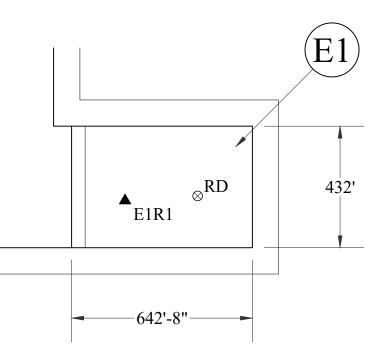
A-505 3/16" = 1'-0"



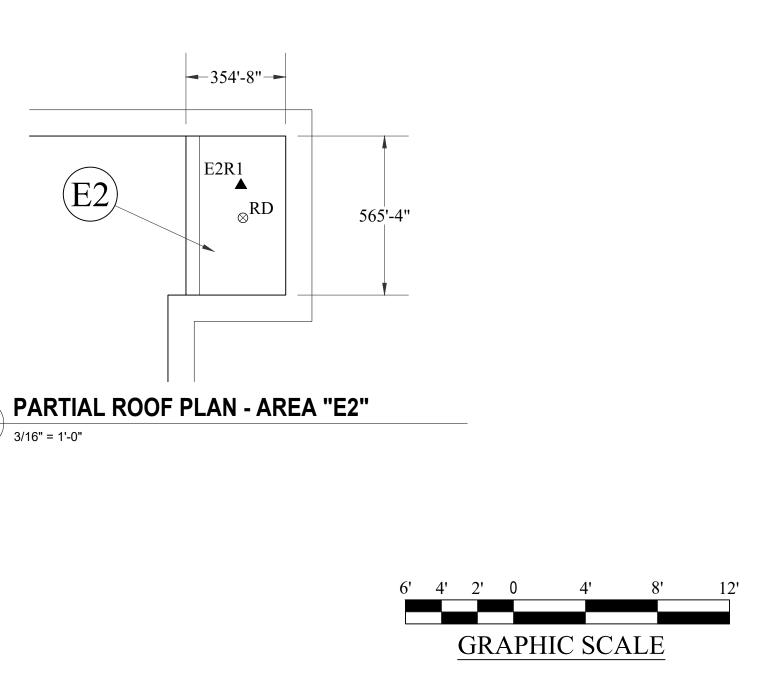
D PARTIAL ROOF PLAN - AREA "F1"

E A-505 3/16" = 1'-0"





C PARTIAL ROOF PLAN - AREA "E1" A-505 3/16" = 1'-0"



5

BID DOCUMENTS

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Date

FROM LS3P ASSOCIATES LTD.

Description

2201-218720

PARTIAL EXISTING

A-505

ROOF PLANS

04/22/22

REVISIONS:

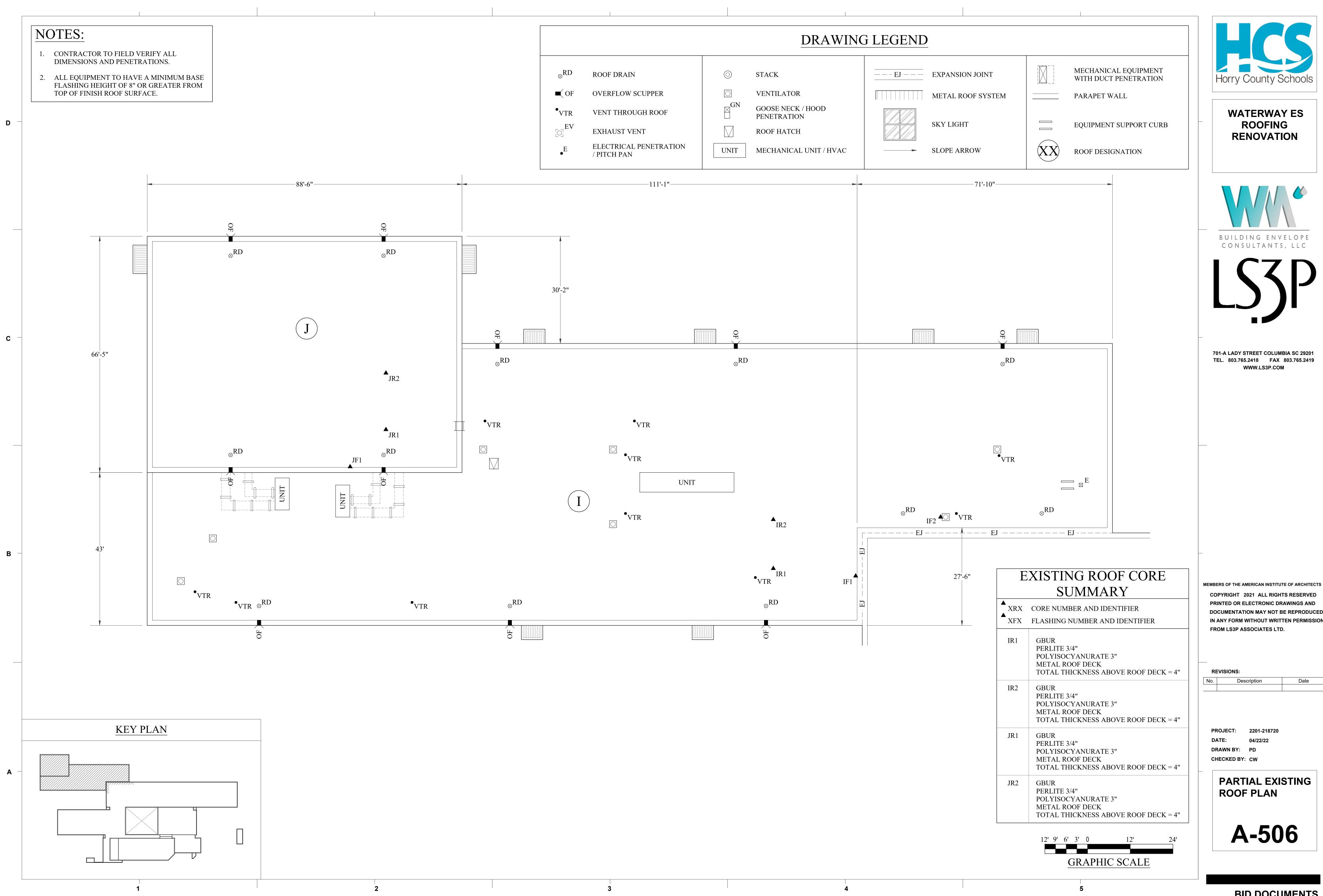
PROJECT:

DRAWN BY: PD CHECKED BY: CW

DATE:

No.

- DIMENSIONS AND PENETRATIONS.
- FLASHING HEIGHT OF 8" OR GREATER FROM TOP OF FINISH ROOF SURFACE.



BID DOCUMENTS

Date

NOTES:

D

- 1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND PENETRATIONS.
- 2. ALL EQUIPMENT TO HAVE A MINIMUM BASE FLASHING HEIGHT OF 8" OR GREATER FROM TOP OF FINISH ROOF SURFACE.

EXISTING ROOF CORE SUMMARY

XRX	CORE NUMBER AND IDENTIFIER FLASHING NUMBER AND IDENTIFIER
	TEASTING NOWIDER AND IDENTIFIER
GR1	SINGLE PLY MEMBRANE POLYISOCYANURATE 3" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 3"
GR2	SINGLE PLY MEMBRANE POLYISOCYANURATE 5" METAL ROOF DECK TOTAL THICKNESS ABOVE ROOF DECK = 5"

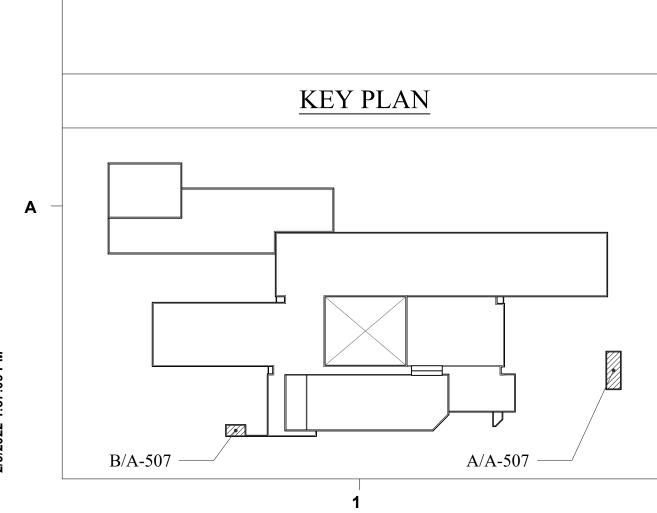
_____ _____ _____ _____ _____ $(G) \otimes^{RD}$ -----OF--_____ **▲** GRÌ, ▲ GR2 18'-2"

A PARTIAL ROOF PLAN - AREA "G" 3/16" = 1'-0"



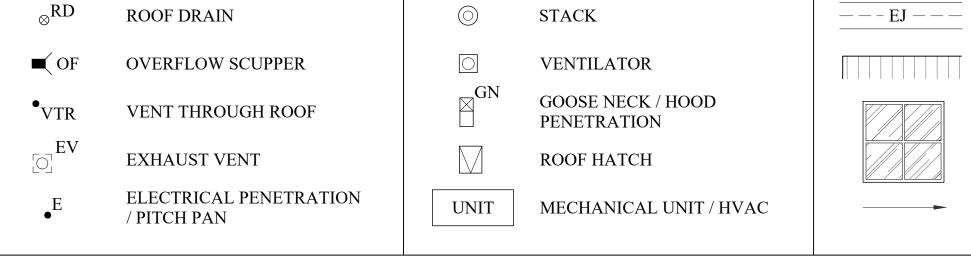
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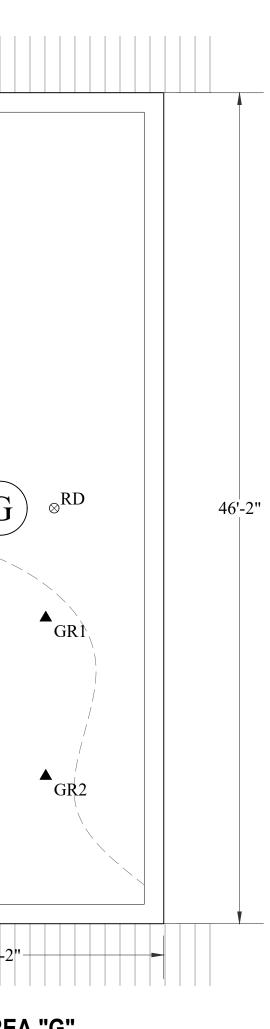


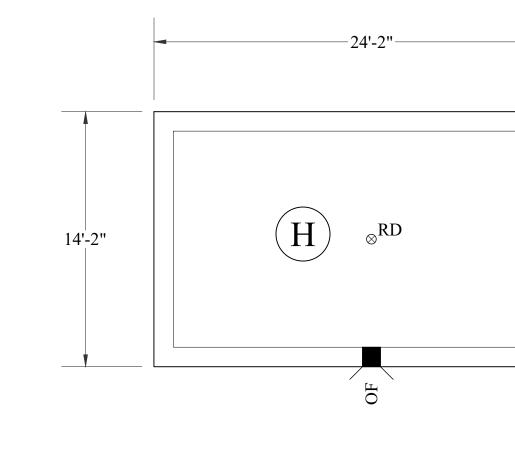
2

DRAWING LEGEND \bigcirc STACK



ROOF DRAIN



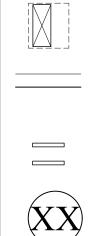


PARTIAL ROOF PLAN - AREA "H" В A-507 3/16" = 1'-0"

METAL ROOF SYSTEM

SKY LIGHT

SLOPE ARROW



MECHANICAL EQUIPMENT WITH DUCT PENETRATION

PARAPET WALL

EQUIPMENT SUPPORT CURB

ROOF DESIGNATION

6' 4' 2' 0 4' 8' 12'

GRAPHIC SCALE

5



WATERWAY ES ROOFING RENOVATION





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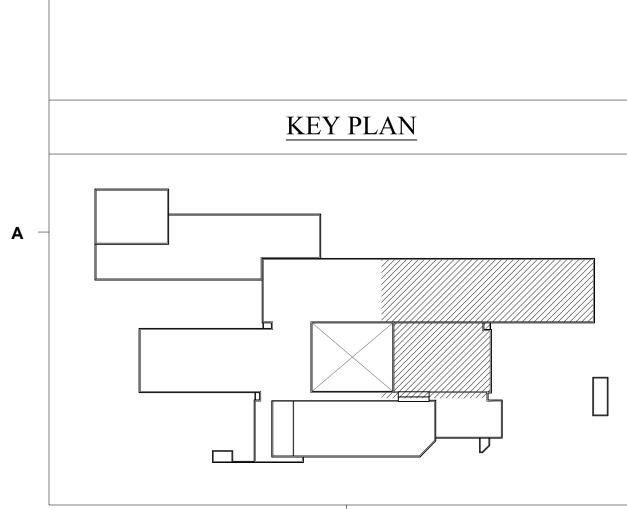
REVISIONS: No. Date Description

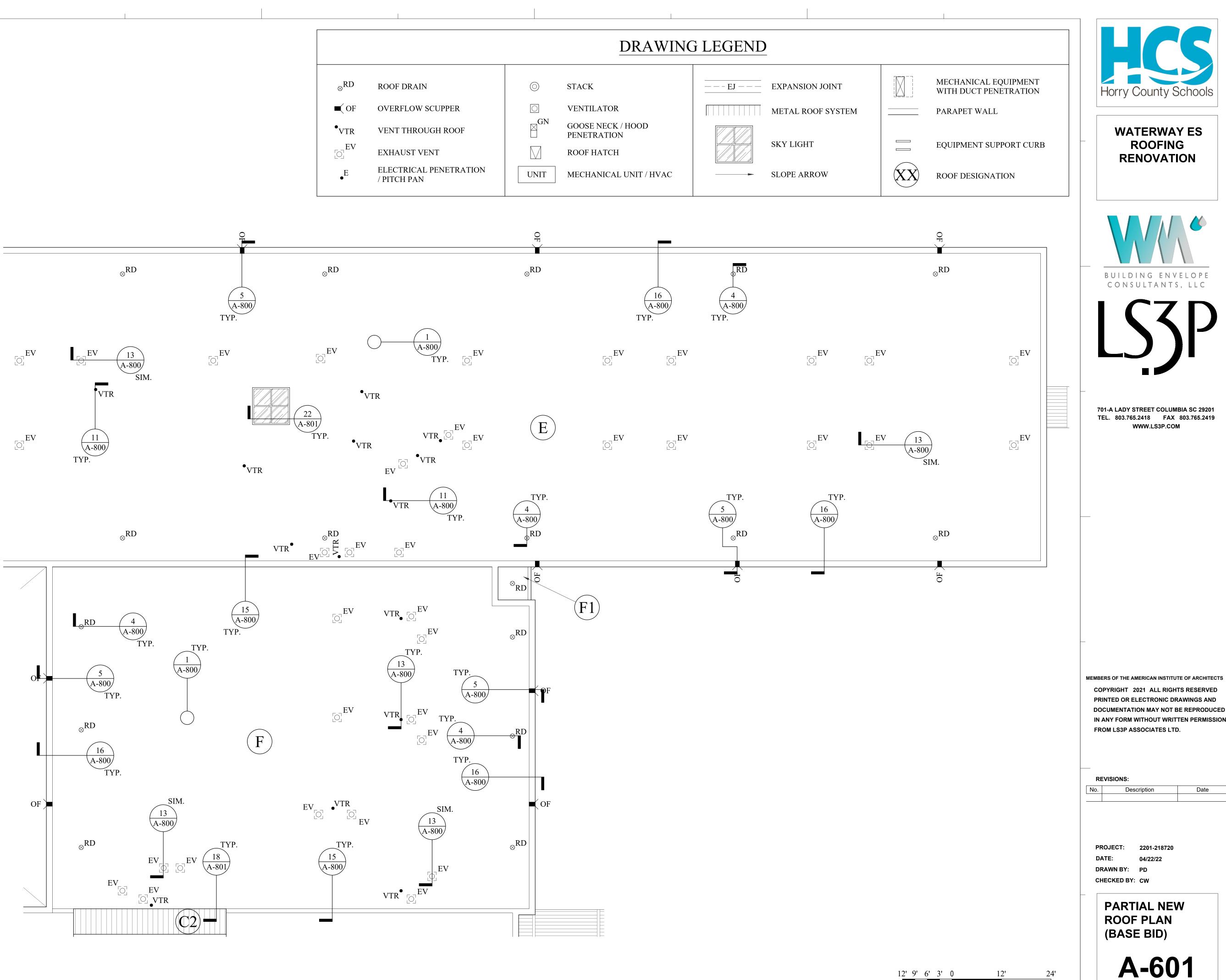
PROJECT: DATE: DRAWN BY: PD CHECKED BY: CW

2201-218720 04/22/22

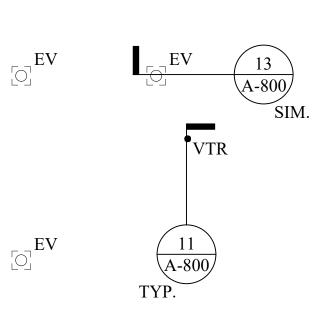
PARTIAL EXISTING **ROOF PLANS A-507**













D

В

С

3

4

BID DOCUMENTS

12' 9' 6' 3' 0

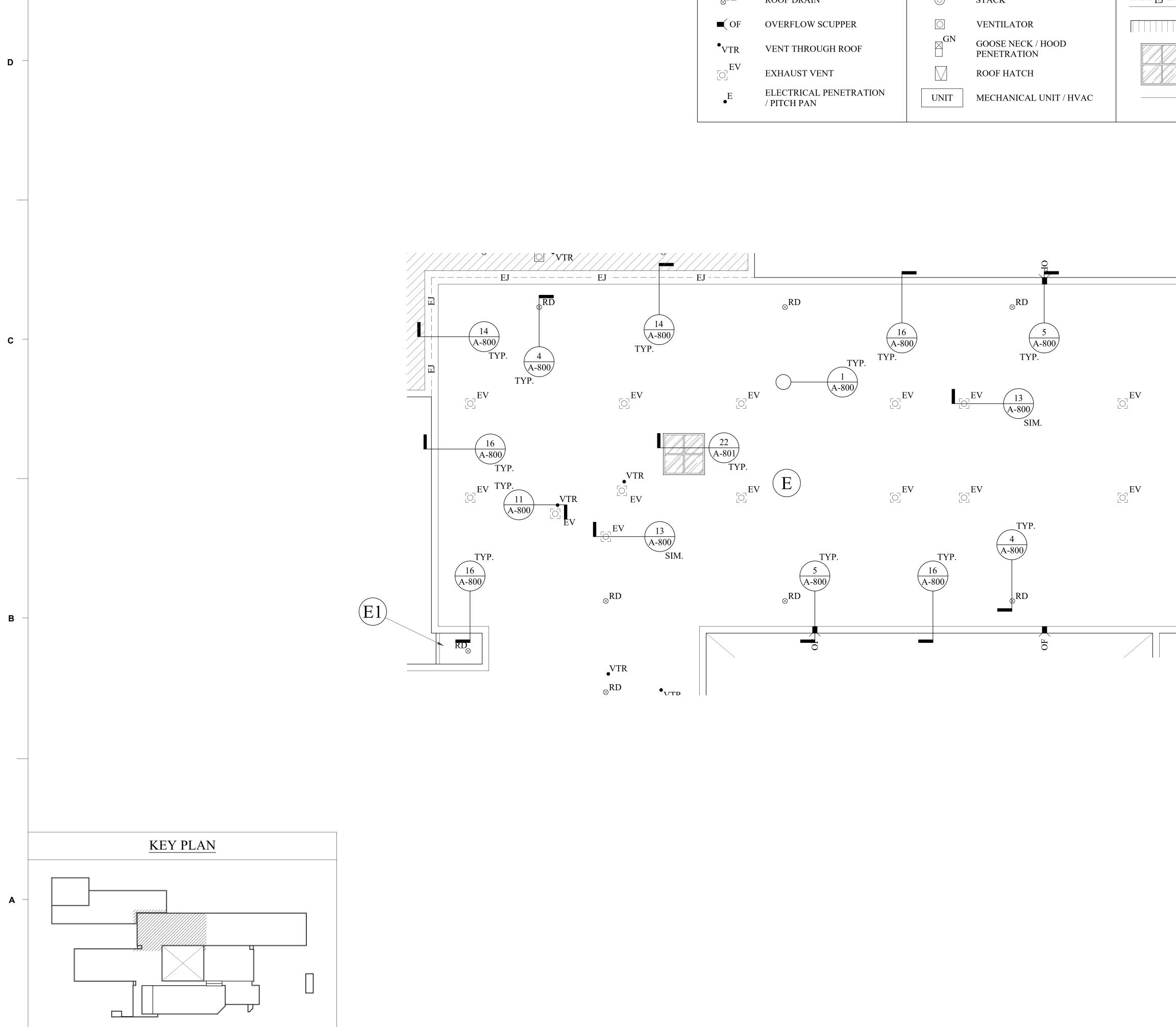
5

24'

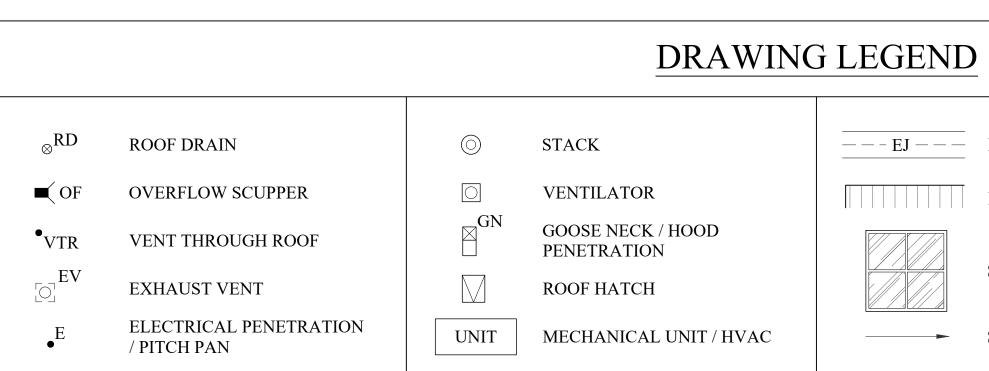
12'

GRAPHIC SCALE

Date



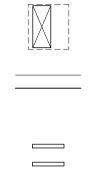
2



METAL ROOF SYSTEM

SKY LIGHT

SLOPE ARROW



(XX)

12' 9' 6' 3' 0

5

4

MECHANICAL EQUIPMENT WITH DUCT PENETRATION

PARAPET WALL

EQUIPMENT SUPPORT CURB

ROOF DESIGNATION



WATERWAY ES ROOFING RENOVATION





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REVISIONS: Date Description

No.

PROJECT: DATE:

24'

12'

GRAPHIC SCALE

2201-218720 04/22/22

PARTIAL NEW

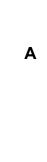
DRAWN BY: PD CHECKED BY: CW

ROOF PLAN

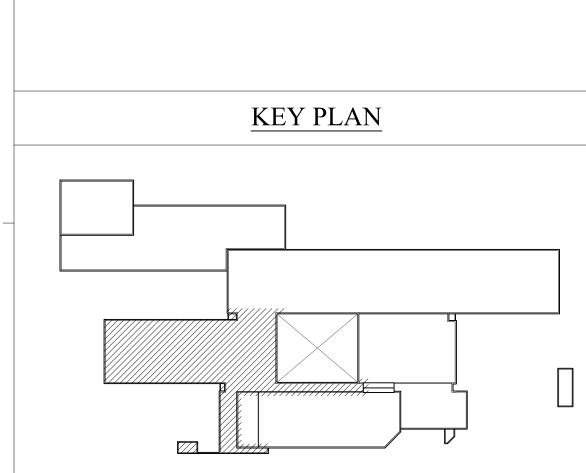
(BASE BID)

A-602

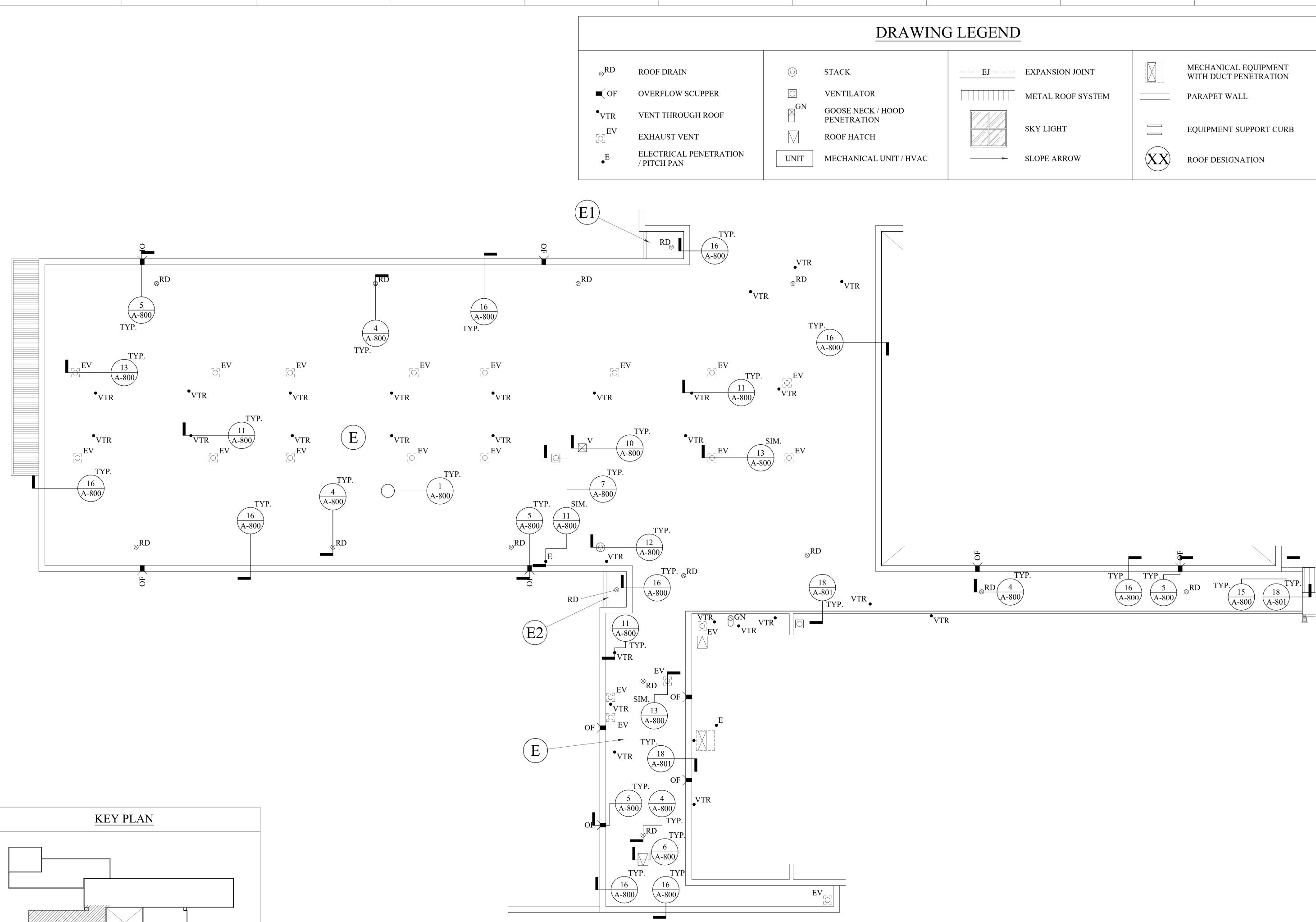








2

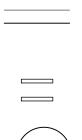


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3

4



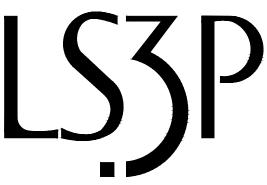
12' 9' 6' 3' 0

5



WATERWAY ES ROOFING RENOVATION





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REVISIONS: Date No. Description

PROJECT: DATE: DRAWN BY: PD CHECKED BY: CW

24'

12'

GRAPHIC SCALE

2201-218720 04/22/22

PARTIAL NEW **ROOF PLAN**

(BASE BID)

A-603





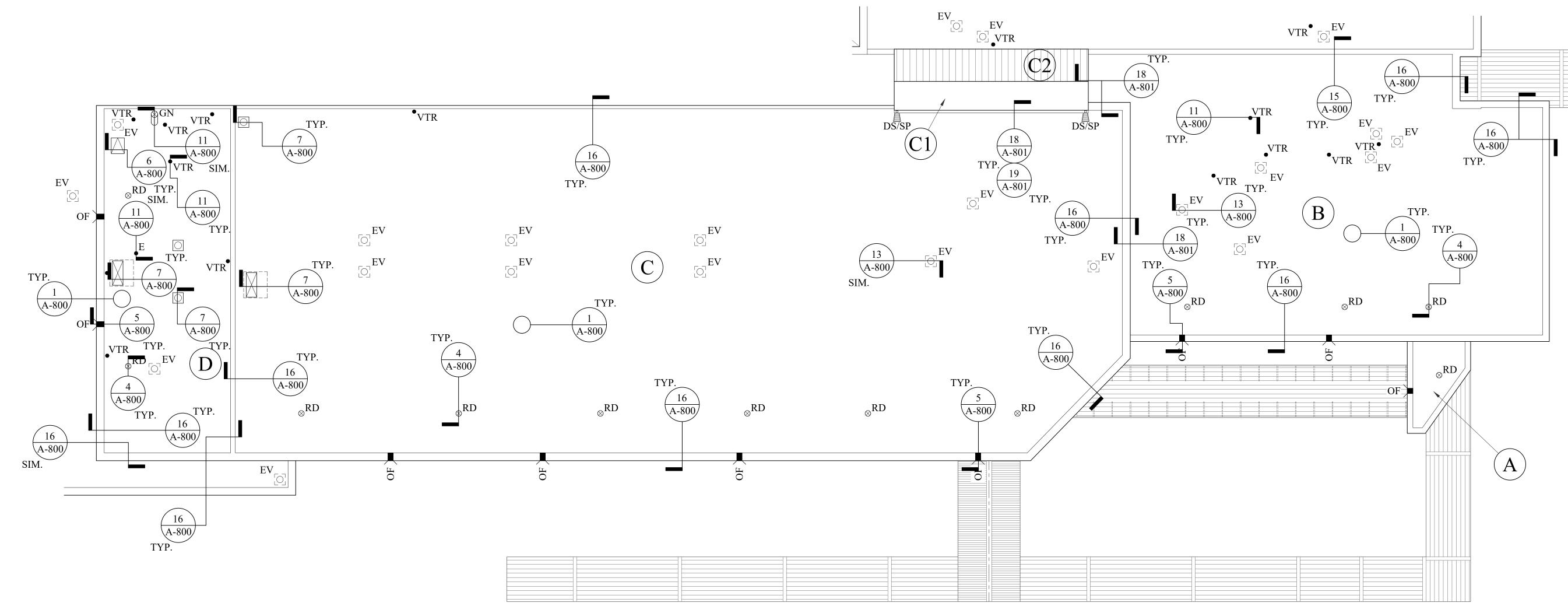
KEY PLAN

2

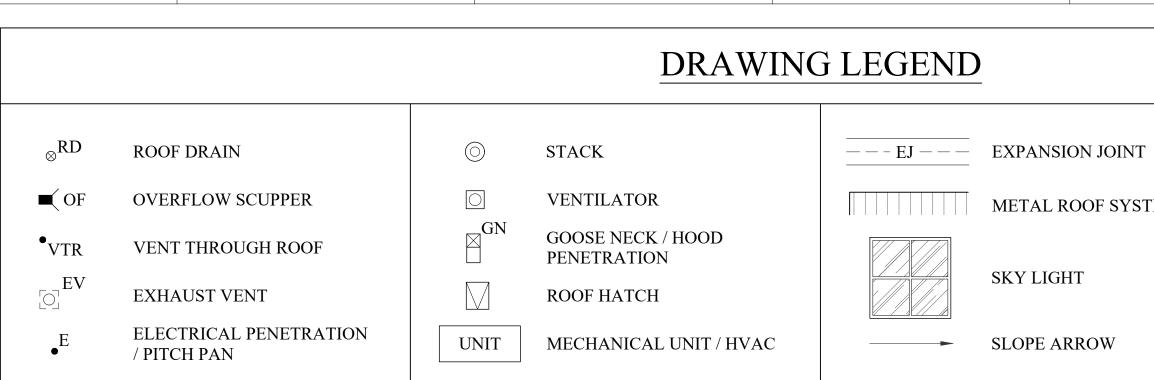


В

С



D



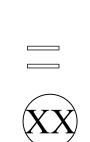
3

4

METAL ROOF SYSTEM

SKY LIGHT

SLOPE ARROW



MECHANICAL EQUIPMENT WITH DUCT PENETRATION PARAPET WALL

EQUIPMENT SUPPORT CURB

ROOF DESIGNATION

12' 9' 6' 3' 0 24' 12' **GRAPHIC SCALE**



WATERWAY ES ROOFING RENOVATION





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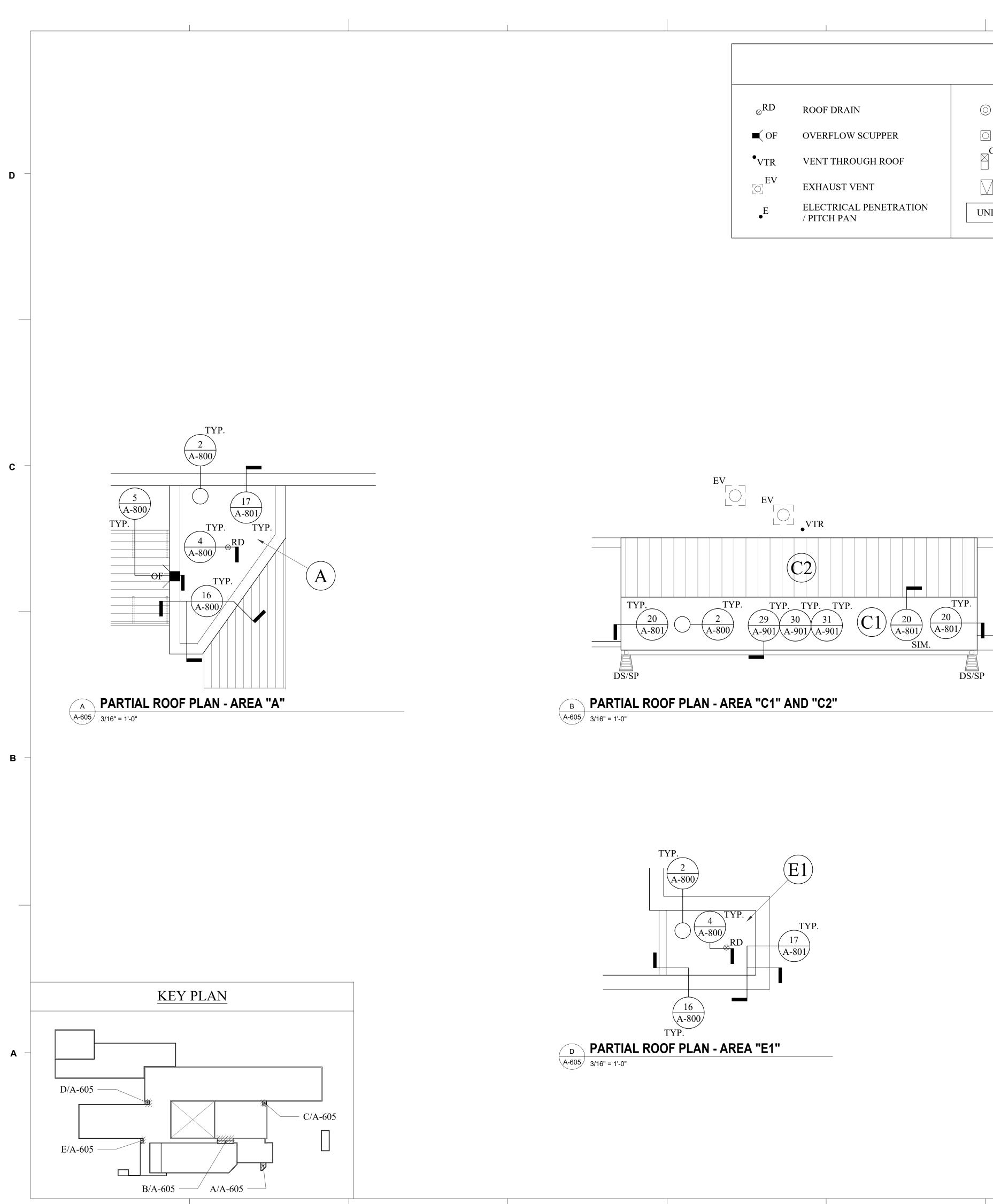
PARTIAL NEW

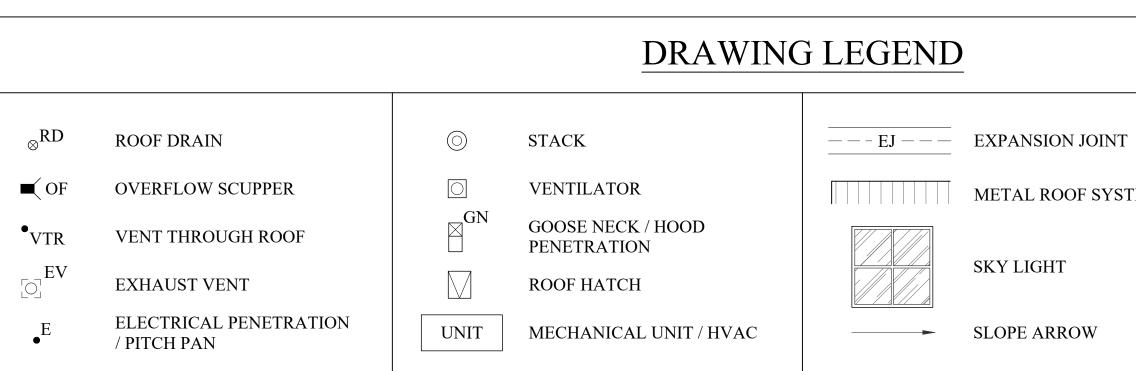
ROOF PLAN

BID DOCUMENTS

(BASE BID)

A-604





3

TYP. (17) (A-801)

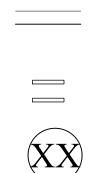
E A-605 3/16" = 1'-0"

4

METAL ROOF SYSTEM

SKY LIGHT

SLOPE ARROW



MECHANICAL EQUIPMENT WITH DUCT PENETRATION PARAPET WALL

EQUIPMENT SUPPORT CURB

ROOF DESIGNATION

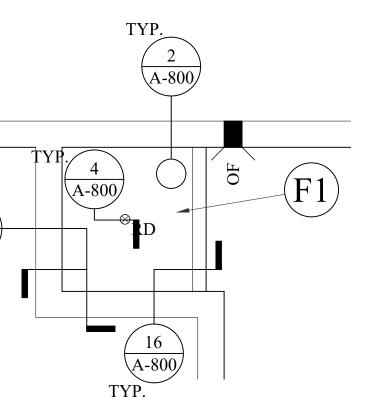


WATERWAY ES ROOFING RENOVATION



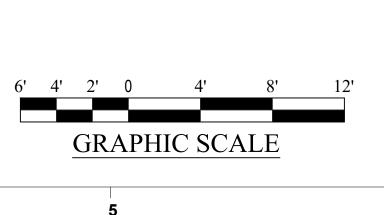


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C PARTIAL ROOF PLAN - AREA "F1" A-605 3/16" = 1'-0"

TYP. TYP 17 A-801 (E2)16 A-800/ A-800 TYP. TYP. PARTIAL ROOF PLAN - AREA "E2"



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REVISIONS: No. Date Description

PROJECT: DATE:

2201-218720 04/22/22

PARTIAL NEW

A-605

BID DOCUMENTS

CHECKED BY: CW

DRAWN BY: PD

ROOF PLANS

(BASE BID)



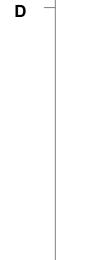








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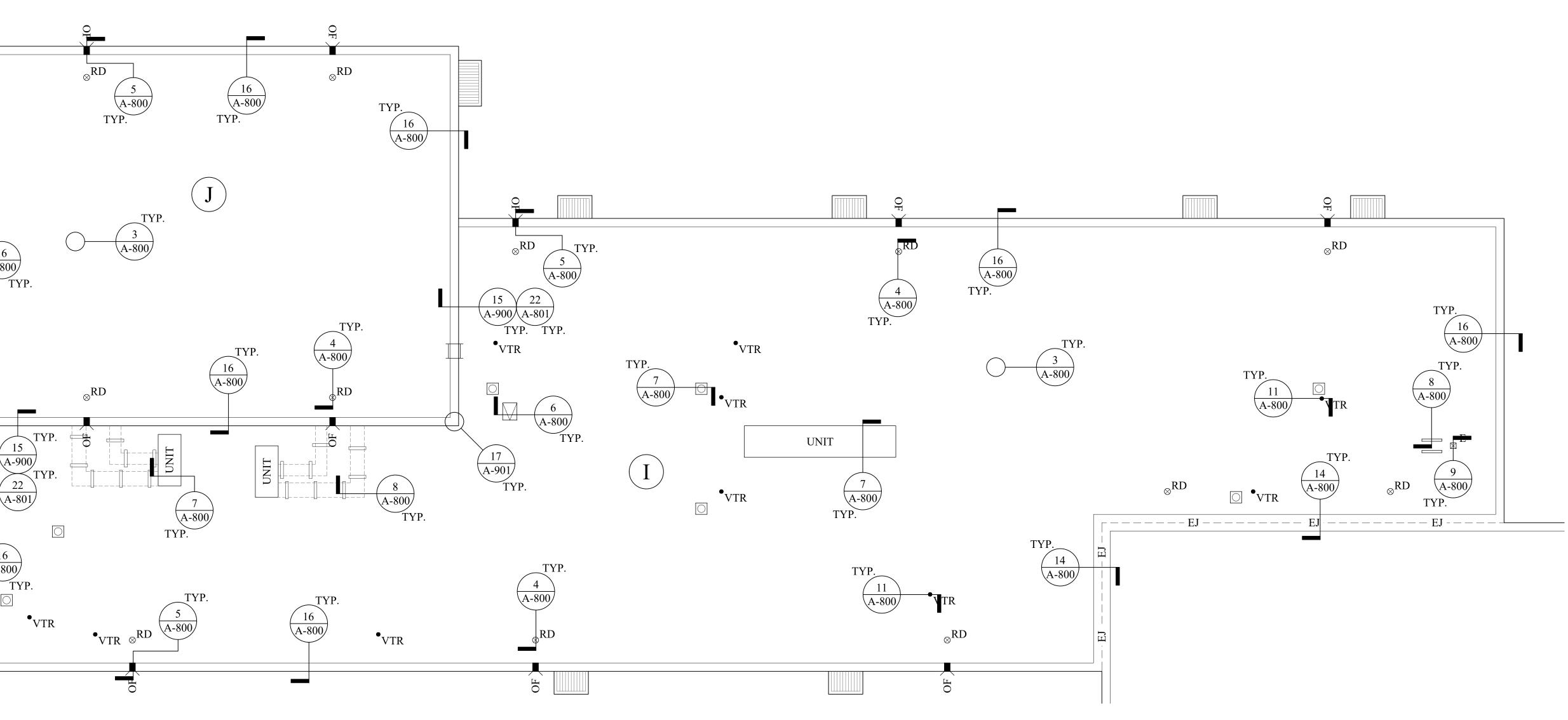


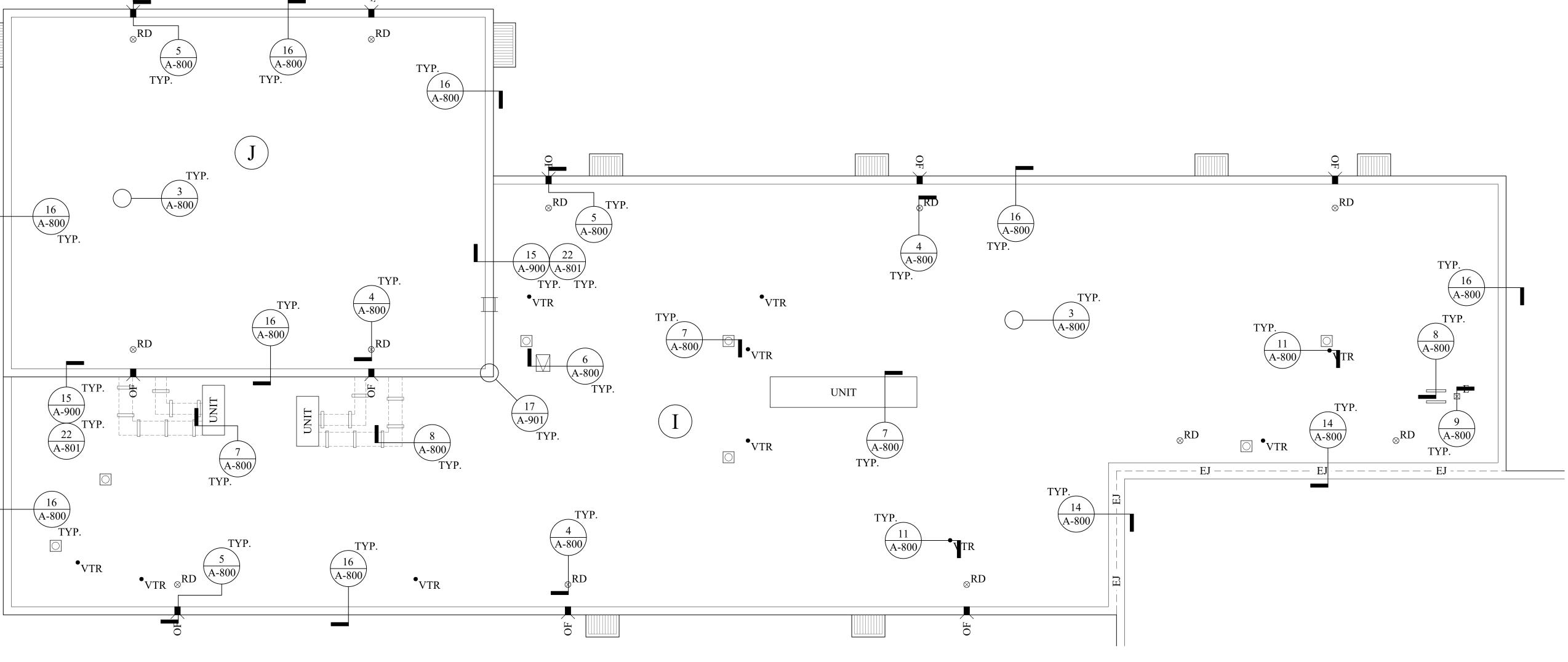


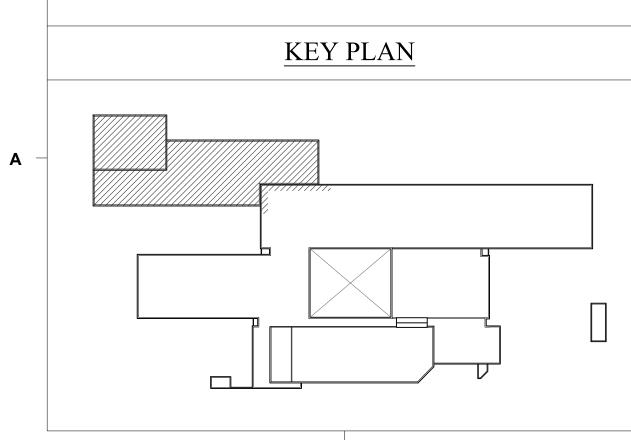




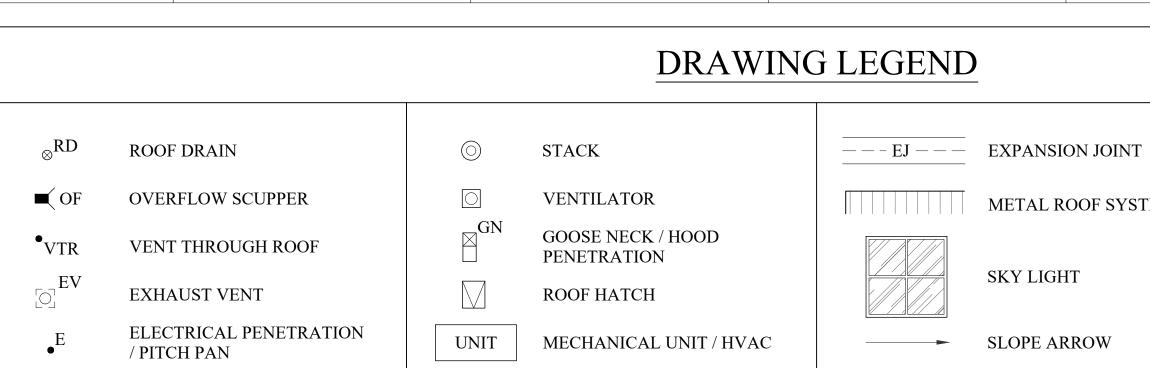








2

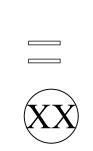


4

METAL ROOF SYSTEM

SKY LIGHT

SLOPE ARROW



MECHANICAL EQUIPMENT WITH DUCT PENETRATION PARAPET WALL

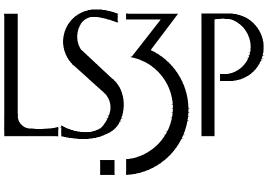
EQUIPMENT SUPPORT CURB

ROOF DESIGNATION



WATERWAY ES ROOFING RENOVATION

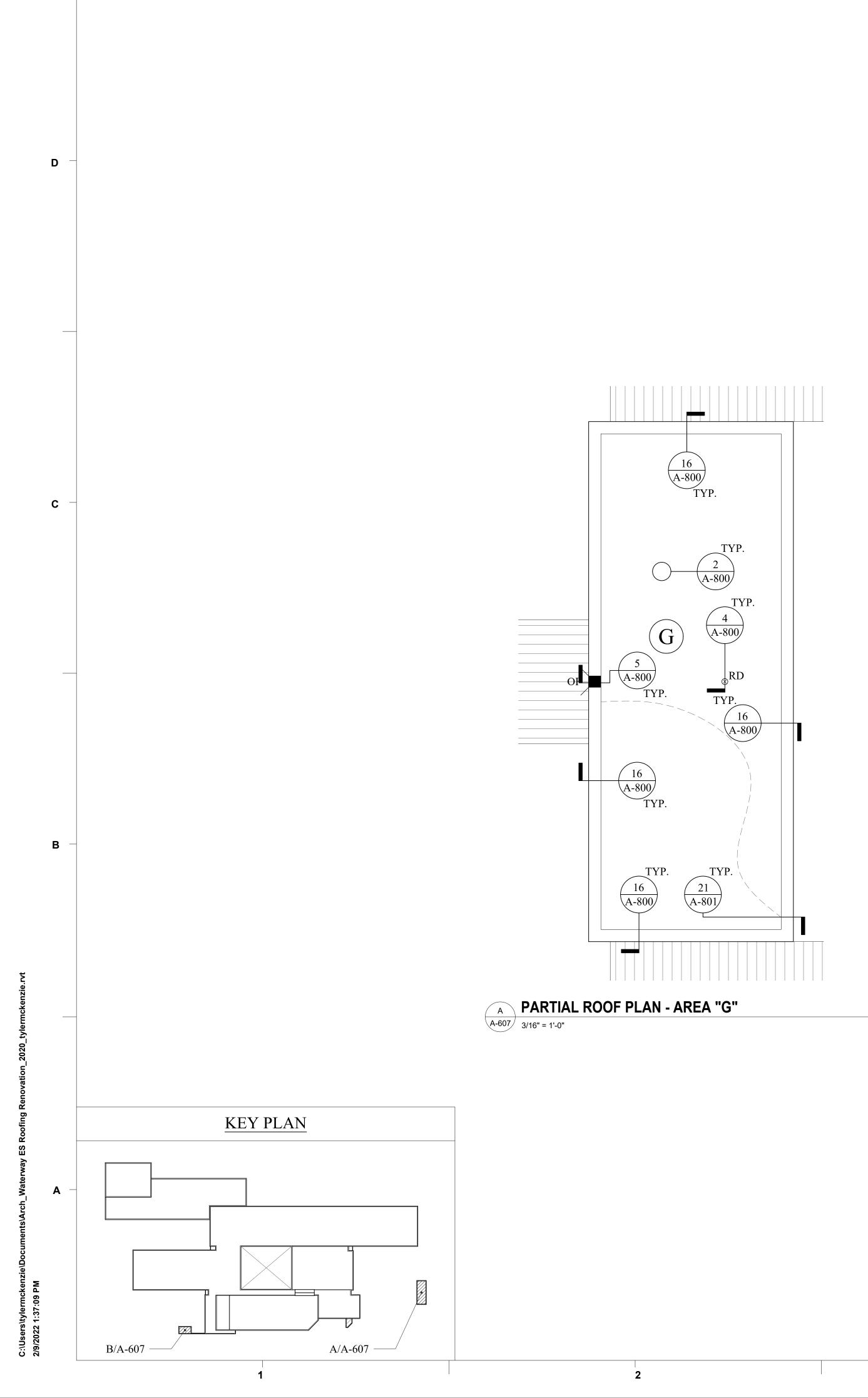




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REVISIONS: Date No. Description PROJECT: 2201-218720 DATE: 04/22/22 DRAWN BY: PD CHECKED BY: CW PARTIAL NEW **ROOF PLAN** (ALT. NO. 1) **A-606**



DRAWING LEGEND \bigcirc **ROOF DRAIN** STACK \bigcirc OVERFLOW SCUPPER VENTILATOR METAL ROOF SYSTEM GN GOOSE NECK / HOOD VENT THROUGH ROOF PENETRATION EXHAUST VENT **ROOF HATCH**

MECHANICAL UNIT / HVAC

UNIT

 $^{\otimes}$ RD

■ OF

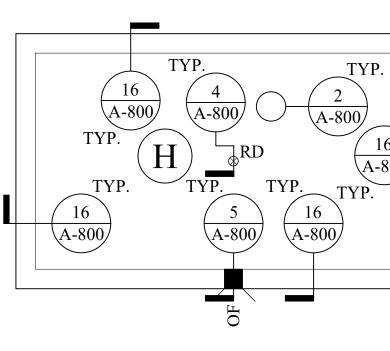
•VTR

EV

●E

ELECTRICAL PENETRATION

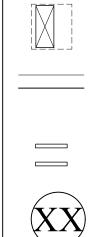
/ PITCH PAN



PARTIAL ROOF PLAN - AREA "H" в **РАКТІА** А-607 3/16" = 1'-0"

SKY LIGHT

SLOPE ARROW



MECHANICAL EQUIPMENT WITH DUCT PENETRATION

PARAPET WALL

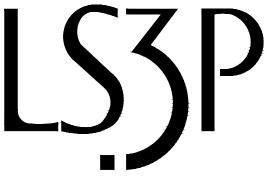
EQUIPMENT SUPPORT CURB

ROOF DESIGNATION



WATERWAY ES ROOFING RENOVATION





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REVISIONS: No. Date Description

PROJECT: DATE: DRAWN BY: PD CHECKED BY: CW

2201-218720 04/22/22

NEW PARTIAL ROOF PLANS

(ALT. NO. 2)

A-607

BID DOCUMENTS

6' 4' 2' 0 4' 8' 12' **GRAPHIC SCALE**

























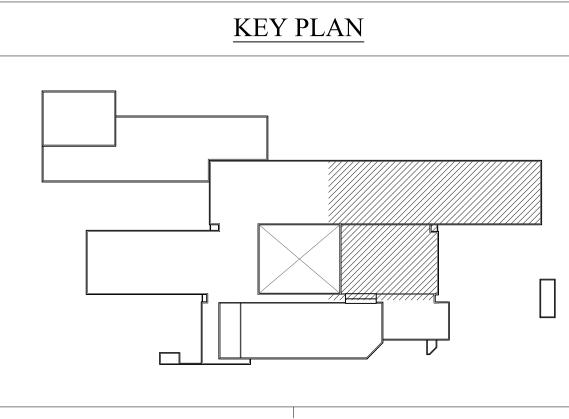


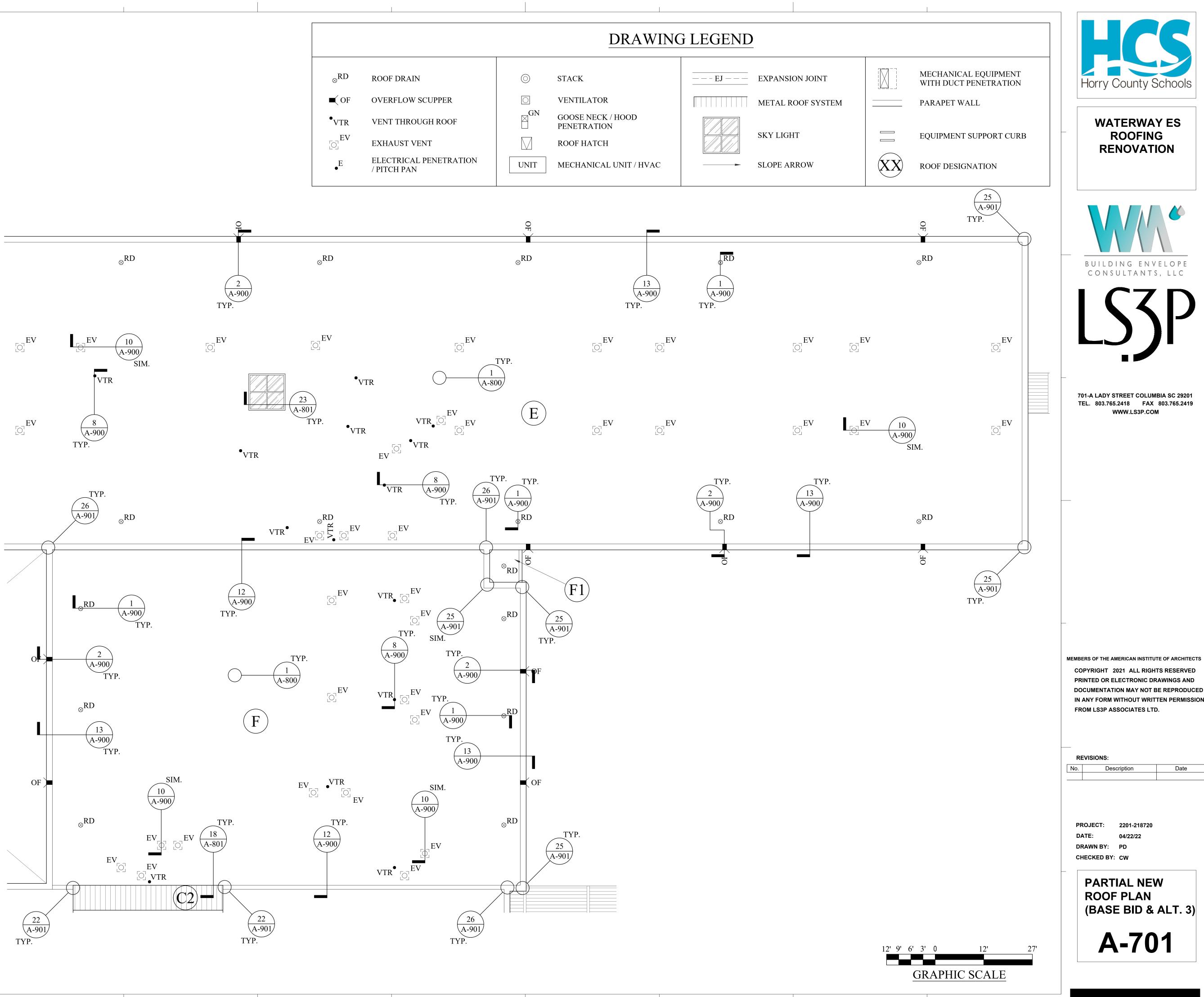












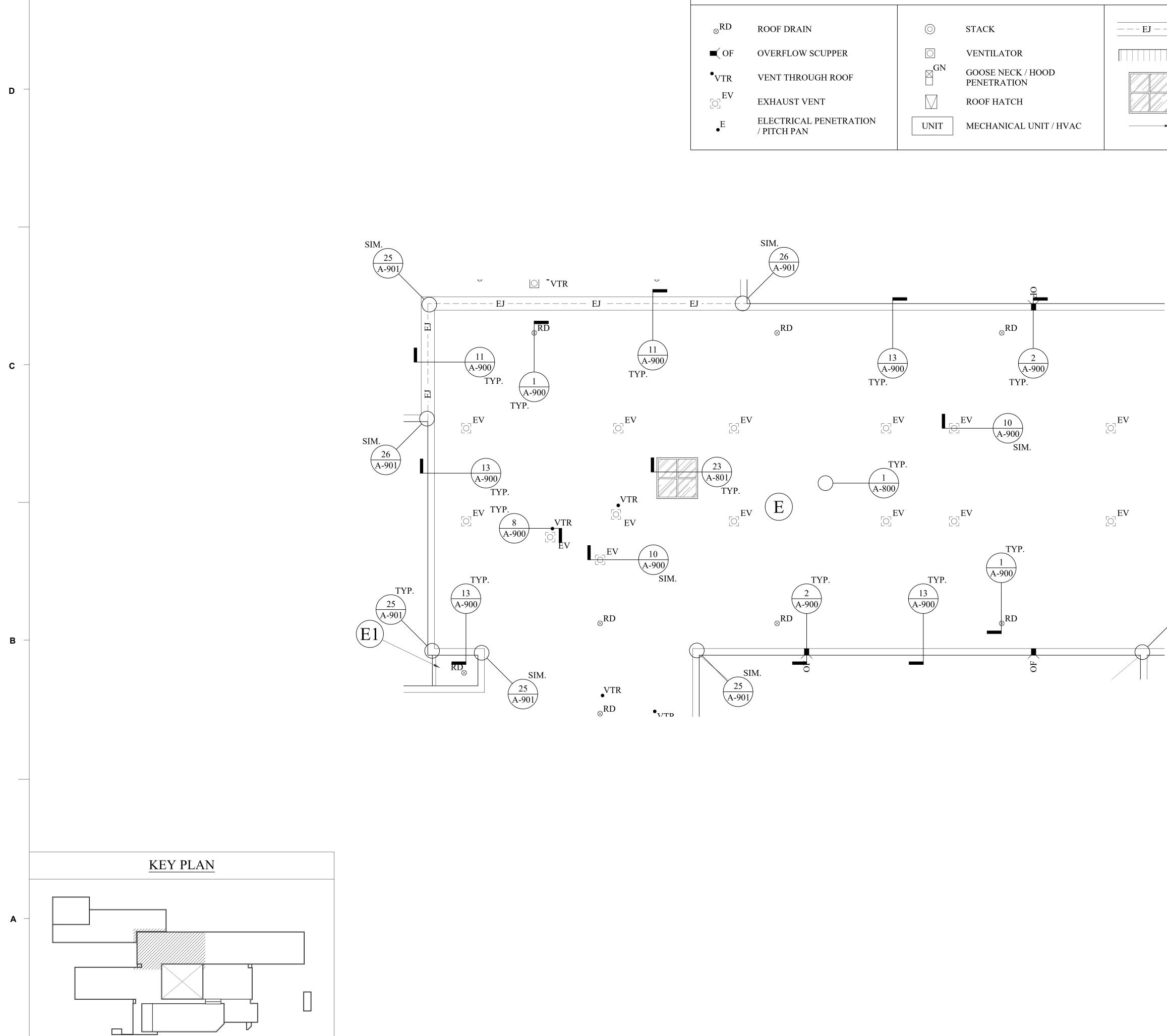
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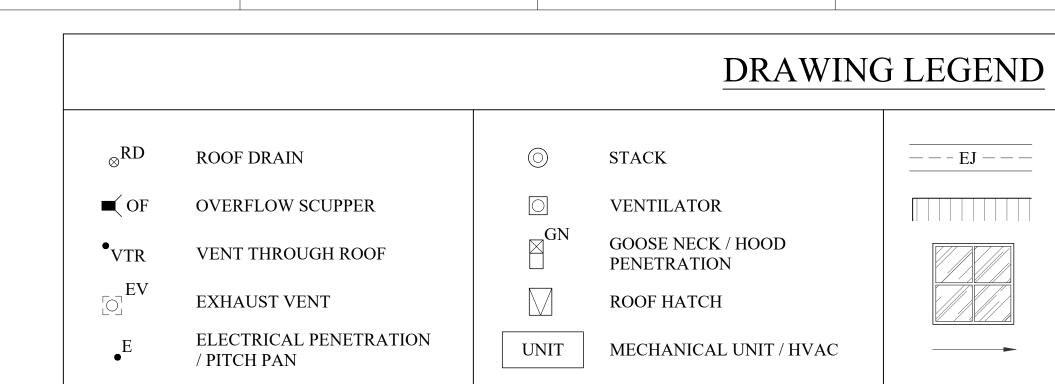
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I)

BID DOCUMENTS

Date





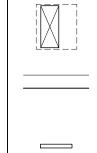
3

4

METAL ROOF SYSTEM

SKY LIGHT

SLOPE ARROW



(XX)

MECHANICAL EQUIPMENT WITH DUCT PENETRATION PARAPET WALL

EQUIPMENT SUPPORT CURB

ROOF DESIGNATION



WATERWAY ES ROOFING RENOVATION





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Description

2201-218720

04/22/22

PARTIAL NEW

(BASE BID & ALT. 3)

A-702

ROOF PLAN

REVISIONS:

PROJECT:

DRAWN BY: PD CHECKED BY: CW

DATE:

No.

DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION

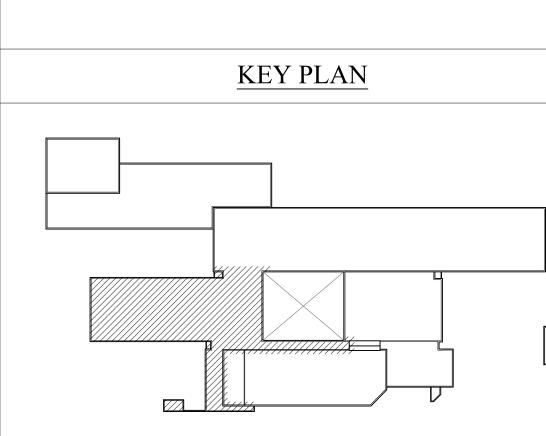
Date

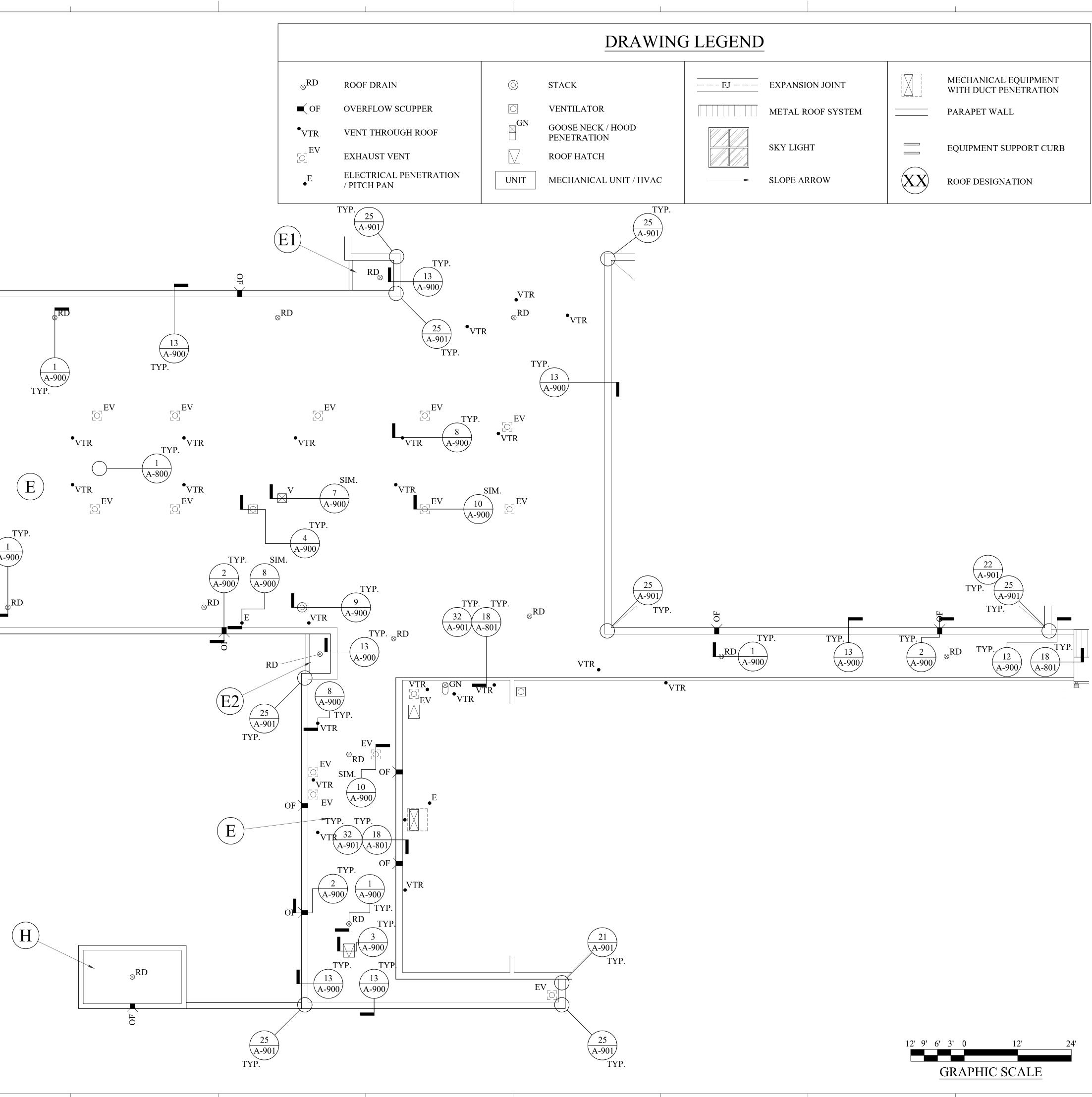
TYP. $\frac{26}{\text{A-901}}$

12' 9'	6' 3'	0	12'	24'
	\underline{GR}	APH	IC SCALE	

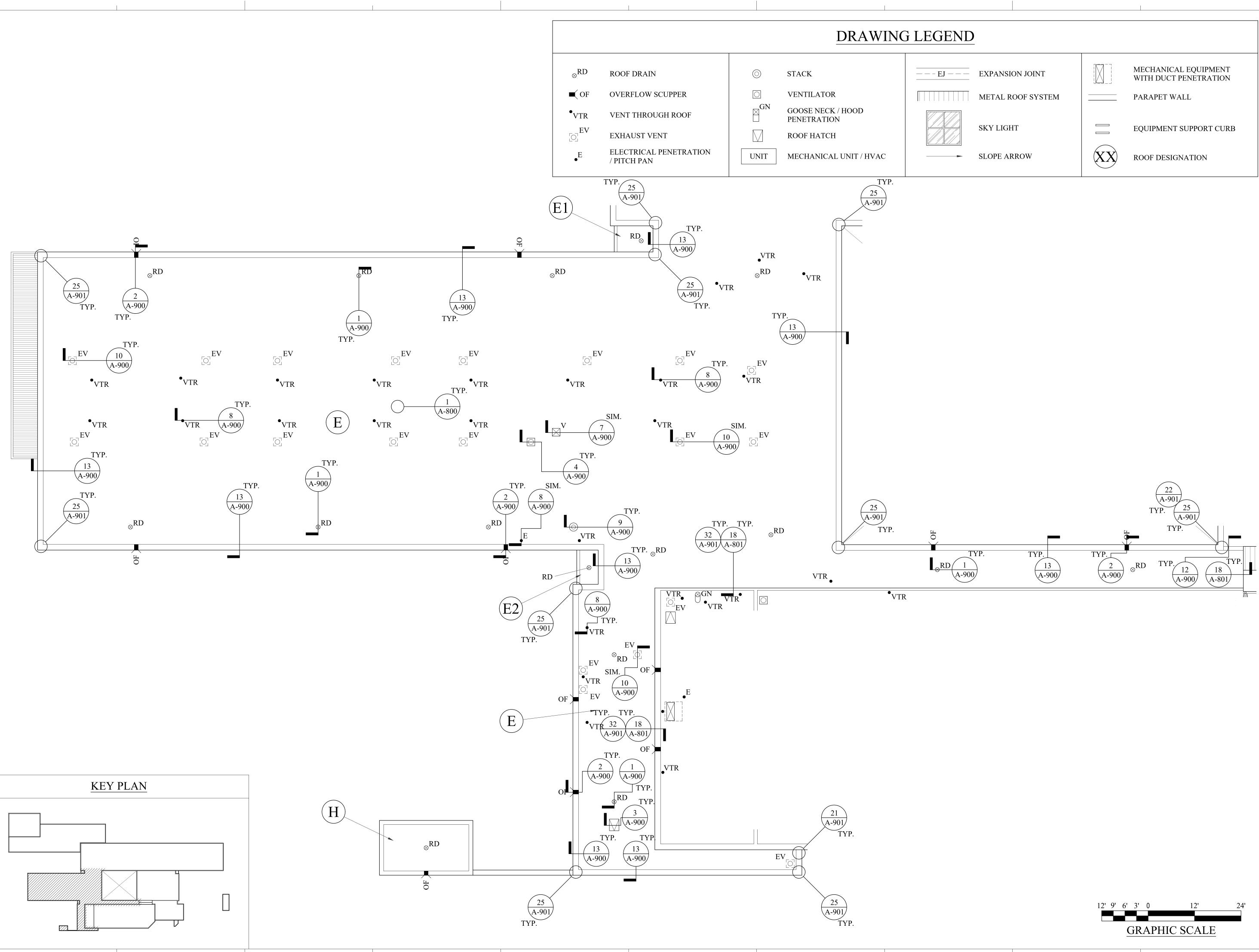








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5



WATERWAY ES ROOFING RENOVATION





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PROJECT: DATE: DRAWN BY: PD

2201-218720 04/22/22

CHECKED BY: CW

PARTIAL NEW

ROOF PLAN

(BASE BID & ALT. 3)

A-703





2

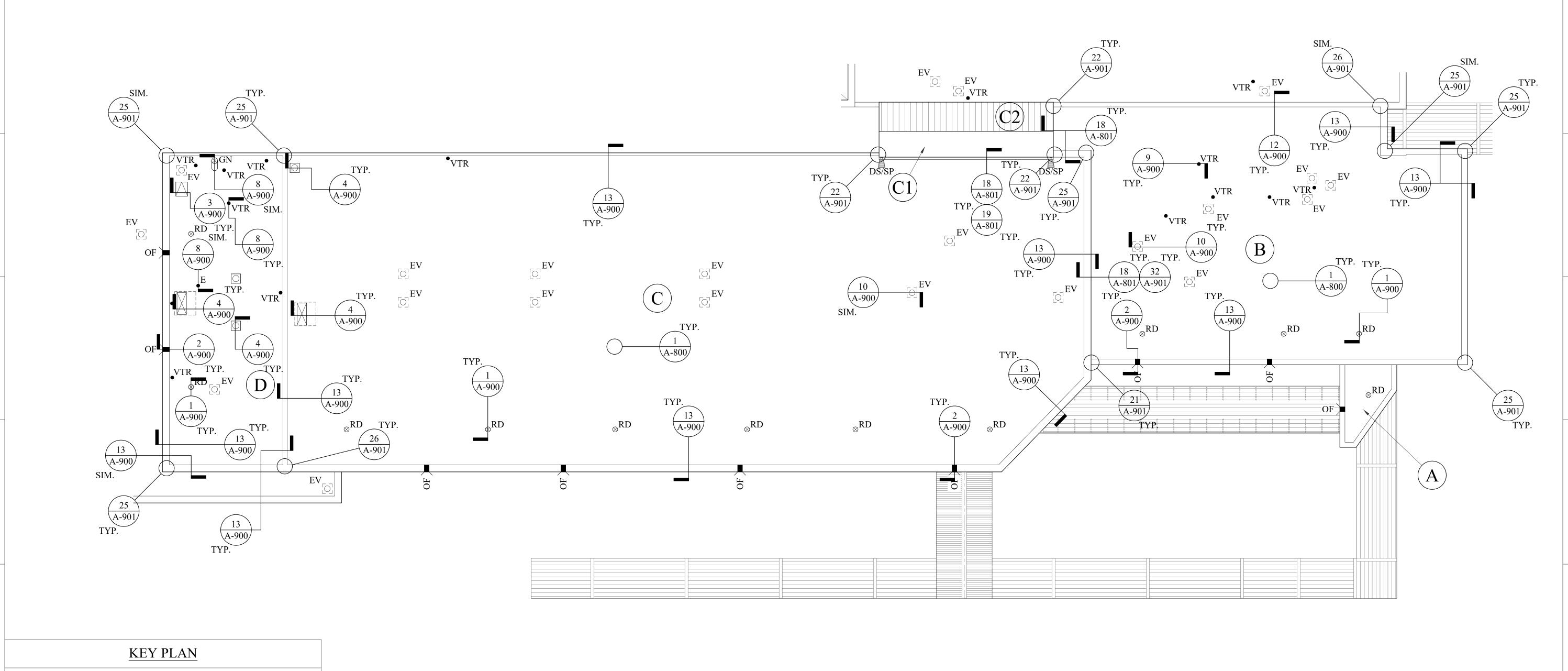




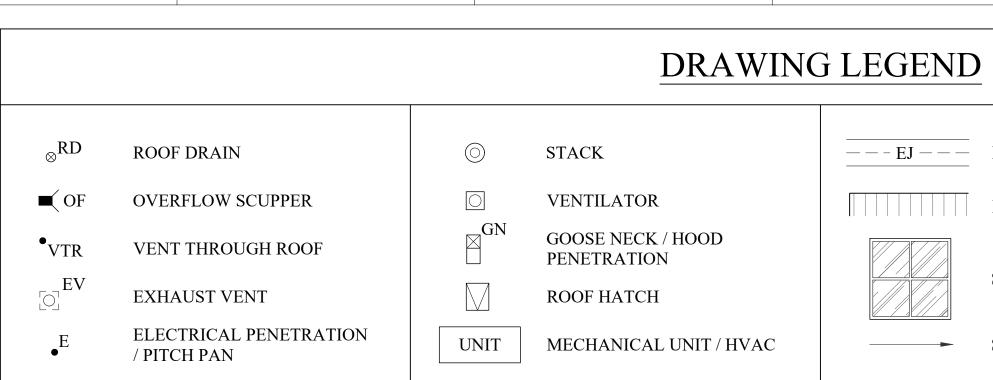
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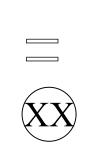


4

METAL ROOF SYSTEM

SKY LIGHT

SLOPE ARROW



12' 9' 6' 3' 0

5

MECHANICAL EQUIPMENT WITH DUCT PENETRATION PARAPET WALL

EQUIPMENT SUPPORT CURB

ROOF DESIGNATION



WATERWAY ES ROOFING RENOVATION





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REVISIONS: Date Description

No.

PROJECT: DATE: DRAWN BY: PD

24'

12'

GRAPHIC SCALE

2201-218720 04/22/22

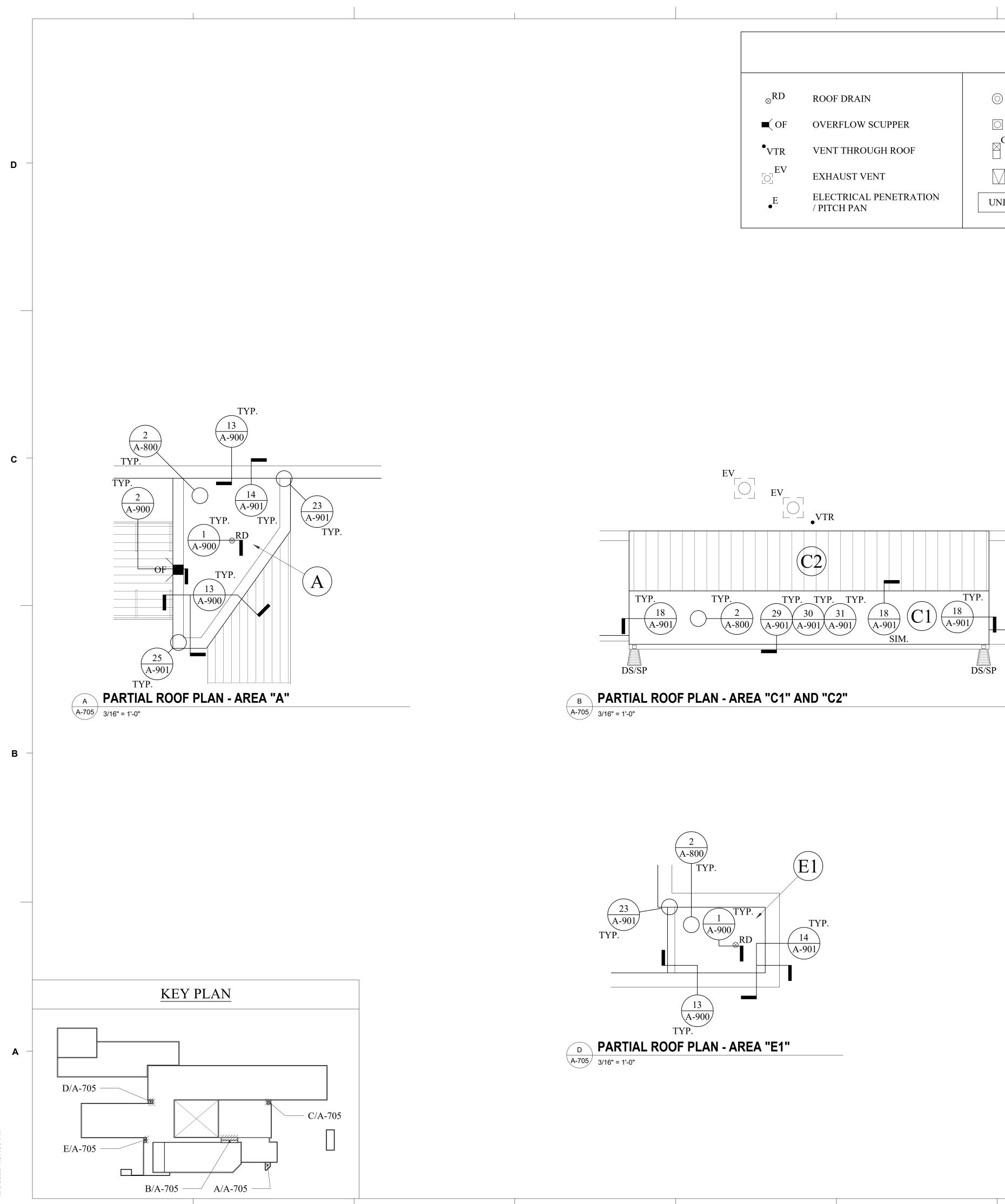
(BASE BID & ALT. 3)

PARTIAL NEW **ROOF PLAN**

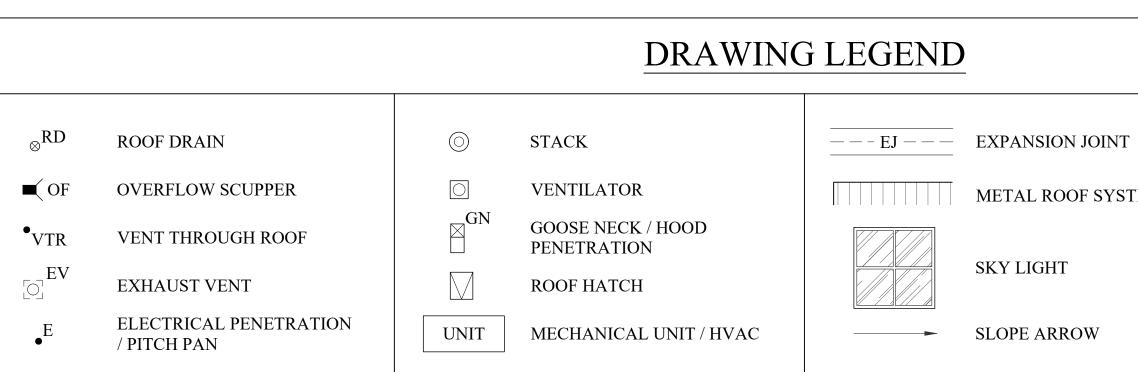
A-704

BID DOCUMENTS

CHECKED BY: CW



3



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TYP.

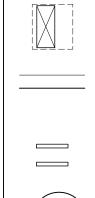
14

A-900/

METAL ROOF SYSTEM

SKY LIGHT

SLOPE ARROW



(XX)

MECHANICAL EQUIPMENT WITH DUCT PENETRATION PARAPET WALL

EQUIPMENT SUPPORT CURB

ROOF DESIGNATION

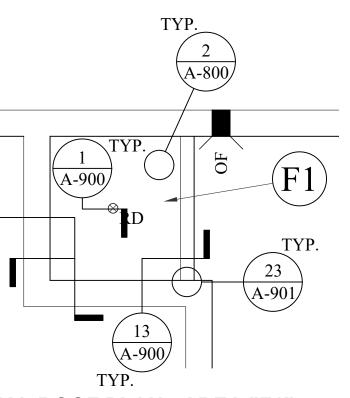


WATERWAY ES ROOFING RENOVATION

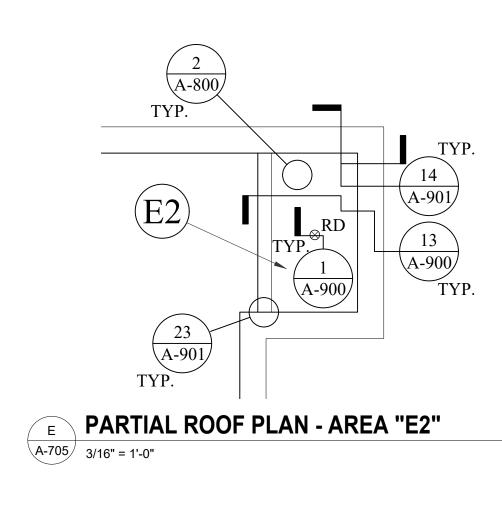


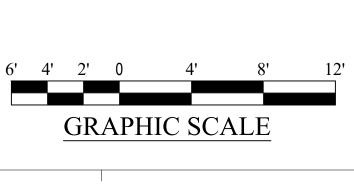


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REVISIONS: Date Description

No.

PROJECT: 2201-218720 DATE: 04/22/22 DRAWN BY: PD

PARTIAL NEW **ROOF PLAN**

BID DOCUMENTS

CHECKED BY: CW

A-705

(BASE BID & ALT. 3)







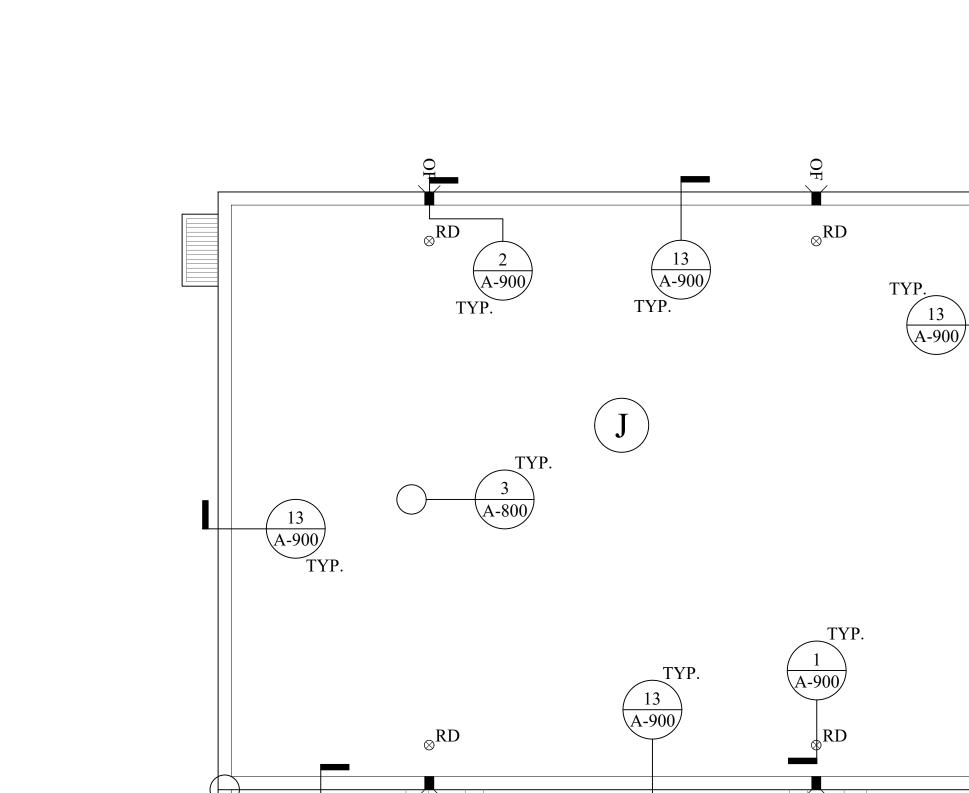






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TYP.

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(15) (A-900) TYP.

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16 \\
\overline{\text{A-900}}
\end{array}$

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•VTR

22 A-901 TYP.

(25) A-901) TYP.

KEY PLAN

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(4) A-900 TYP.

TYP.

A-900

•VTR \otimes^{RD}

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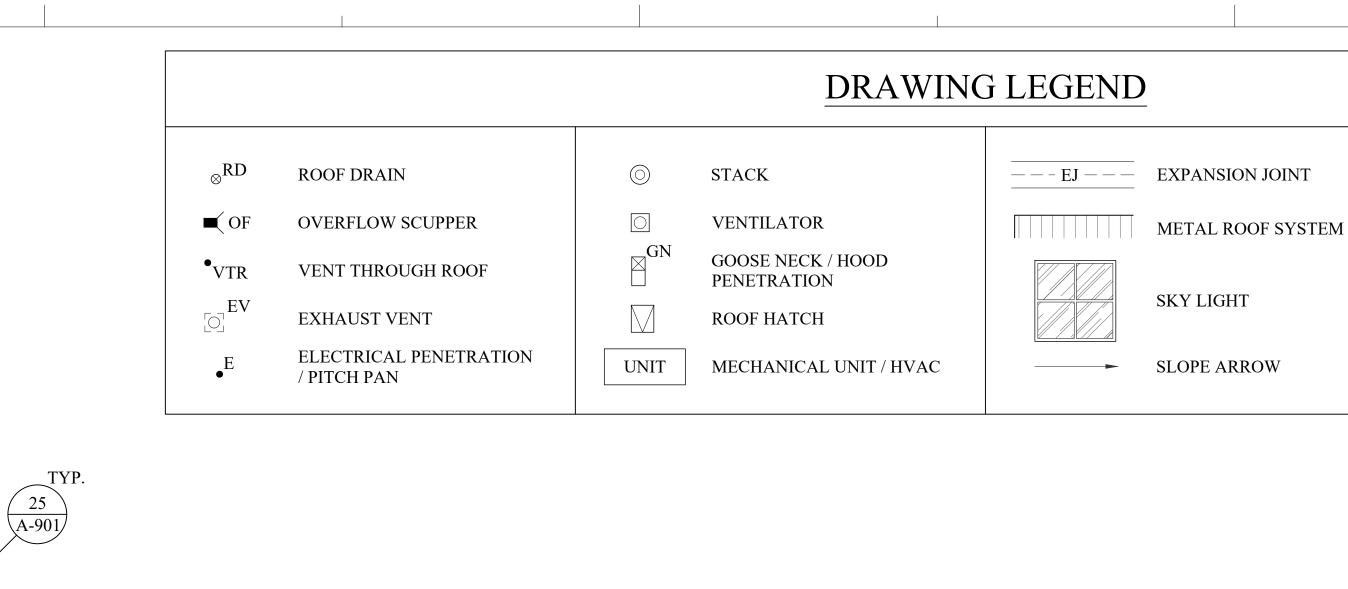
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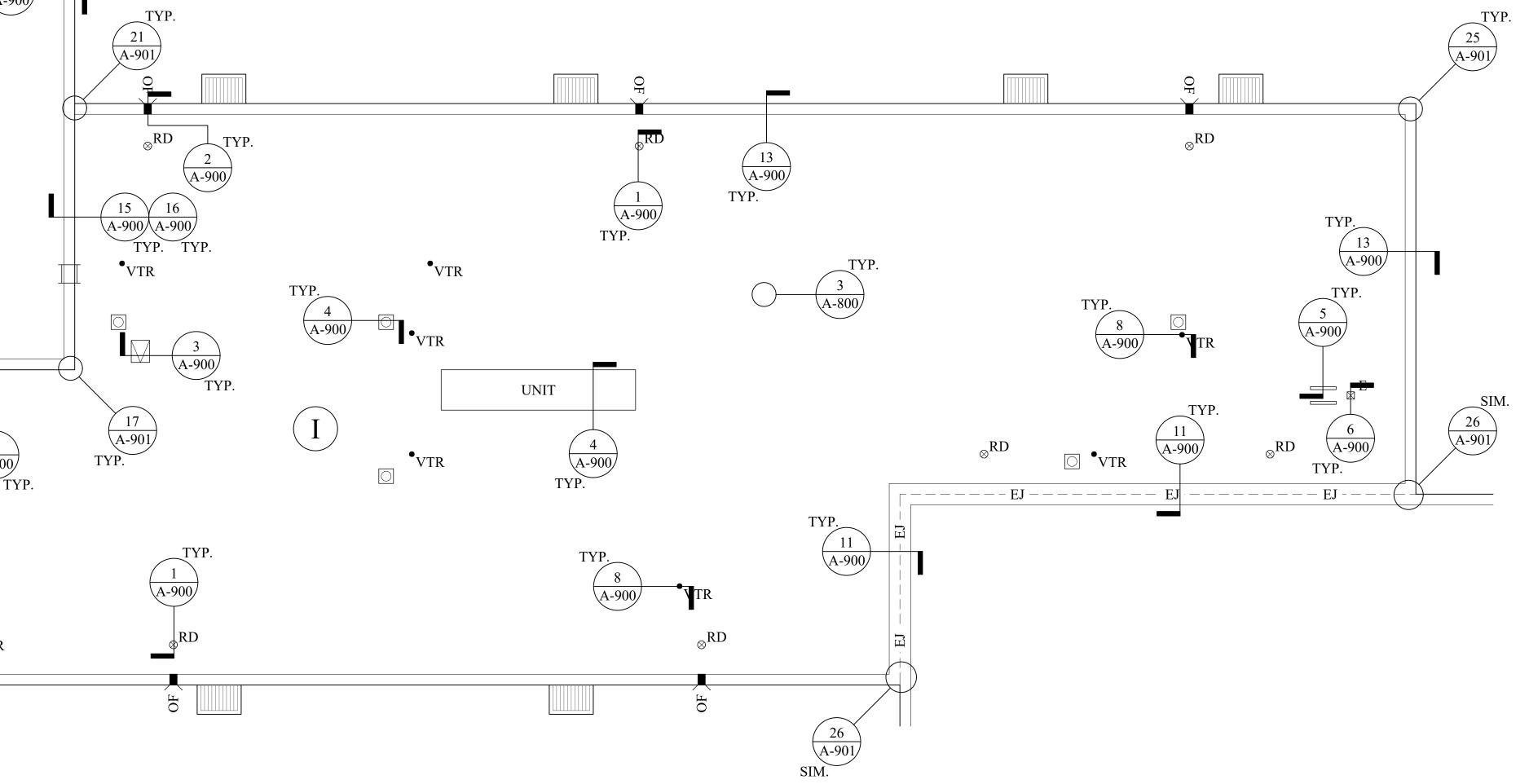
TYP. 13 A-900

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•VTR

2





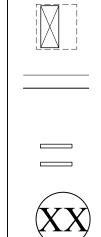
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TYP.

4

SKY LIGHT

SLOPE ARROW



MECHANICAL EQUIPMENT WITH DUCT PENETRATION PARAPET WALL

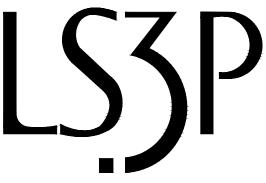
EQUIPMENT SUPPORT CURB

ROOF DESIGNATION



WATERWAY ES ROOFING RENOVATION





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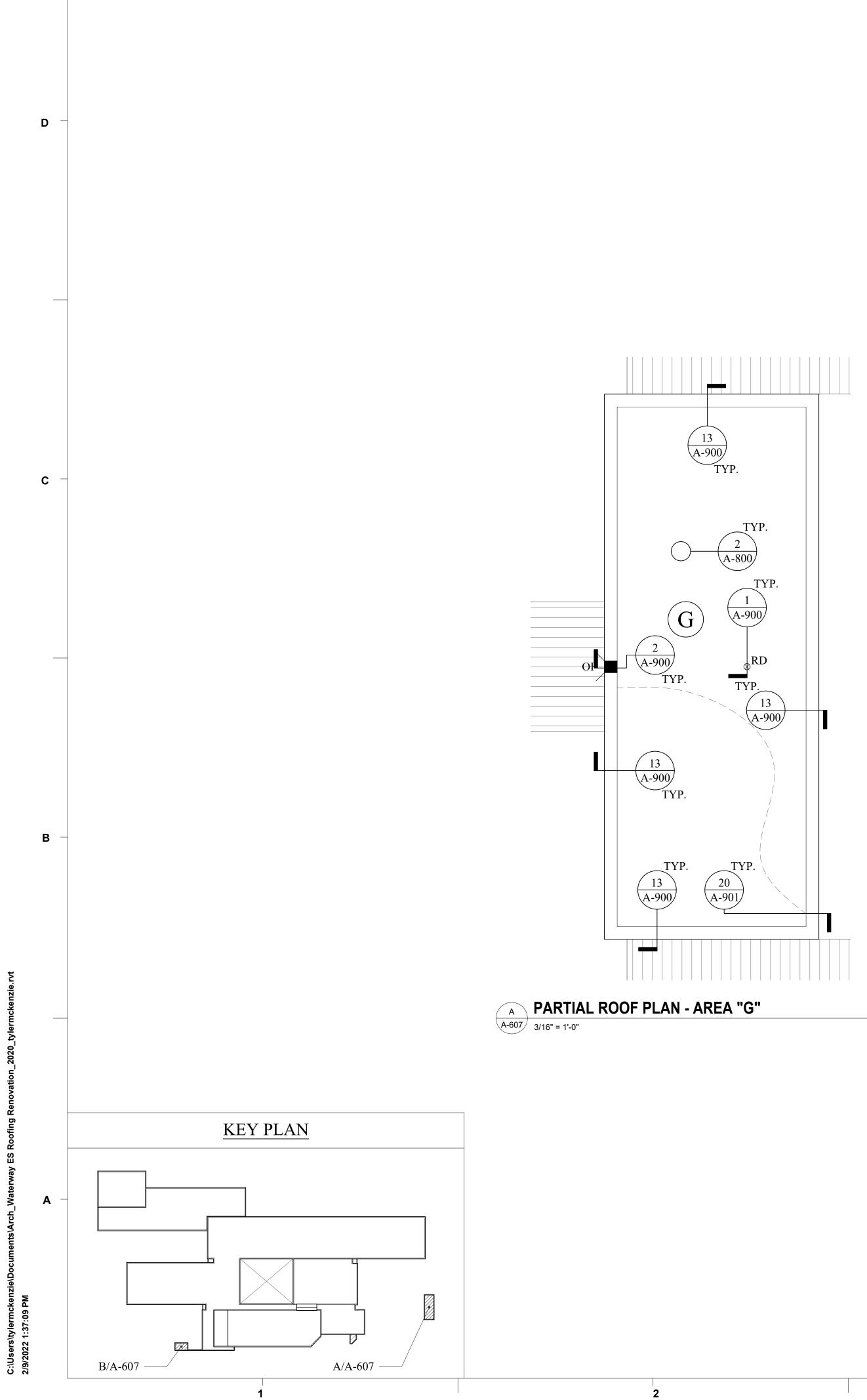
REVISIONS: Date No. Description

PROJECT: DATE: DRAWN BY: PD CHECKED BY: CW

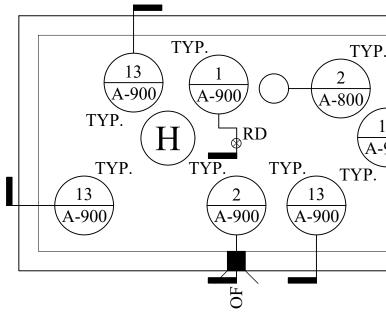
2201-218720 04/22/22

PARTIAL NEW **ROOF PLAN** (ALT. 1 & ALT. 3)

A-706



DRAWING LEGEND \otimes^{RD} \bigcirc **ROOF DRAIN** STACK \bigcirc OVERFLOW SCUPPER VENTILATOR ■ OF GN GOOSE NECK / HOOD •VTR VENT THROUGH ROOF PENETRATION EV EXHAUST VENT **ROOF HATCH** ELECTRICAL PENETRATION UNIT ●E MECHANICAL UNIT / HVAC / PITCH PAN

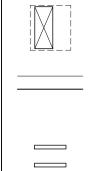




METAL ROOF SYSTEM

SKY LIGHT

SLOPE ARROW



(XX)

MECHANICAL EQUIPMENT WITH DUCT PENETRATION

PARAPET WALL

EQUIPMENT SUPPORT CURB

ROOF DESIGNATION

6' 4' 2' 0 4'

5

GRAPHIC SCALE



WATERWAY ES ROOFING RENOVATION





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REVISIONS: No. Description Date

PROJECT:	2
	_
DATE:	04
DRAWN BY:	Ρ
CHECKED BY:	С

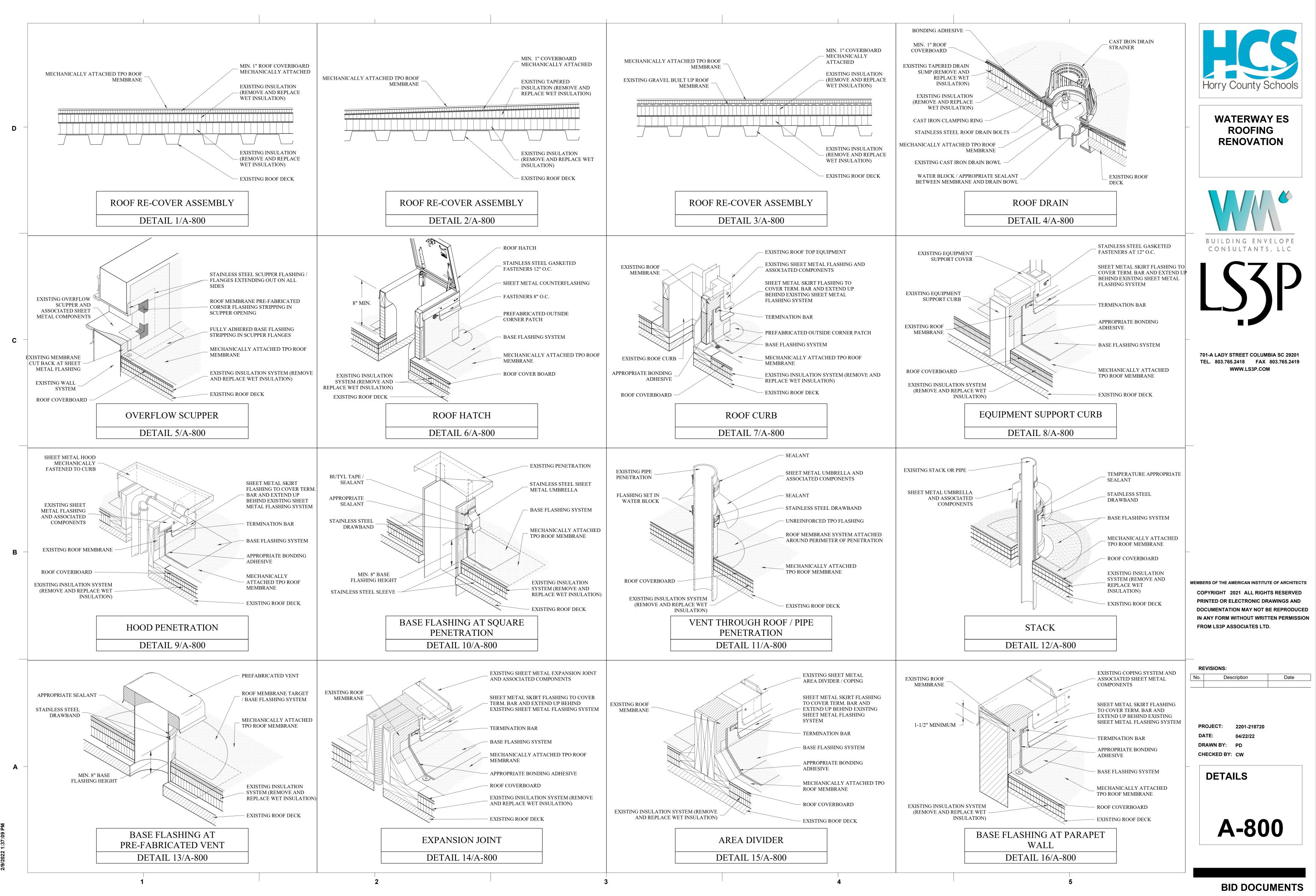
12'

8'

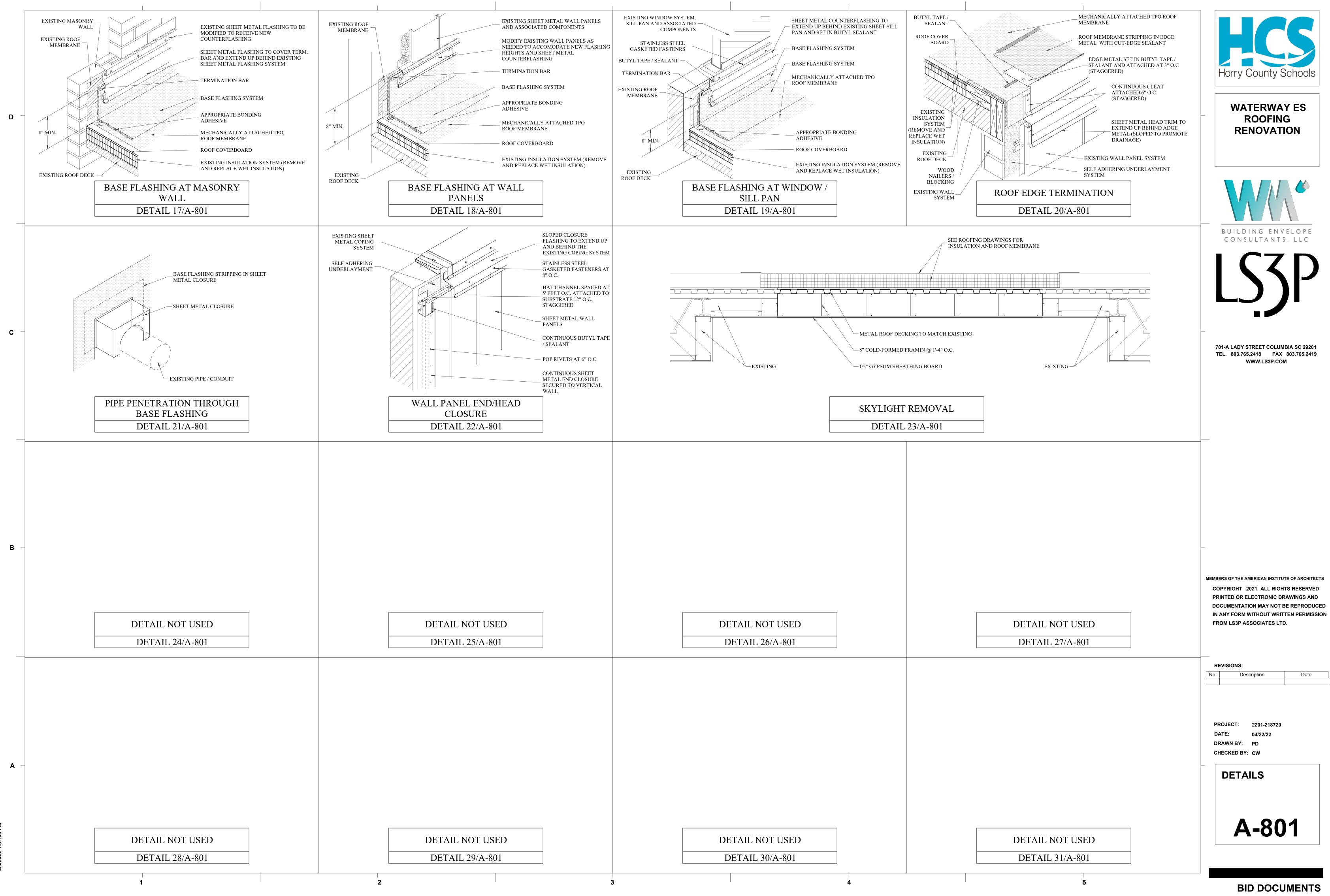
2201-218720 04/22/22 PD

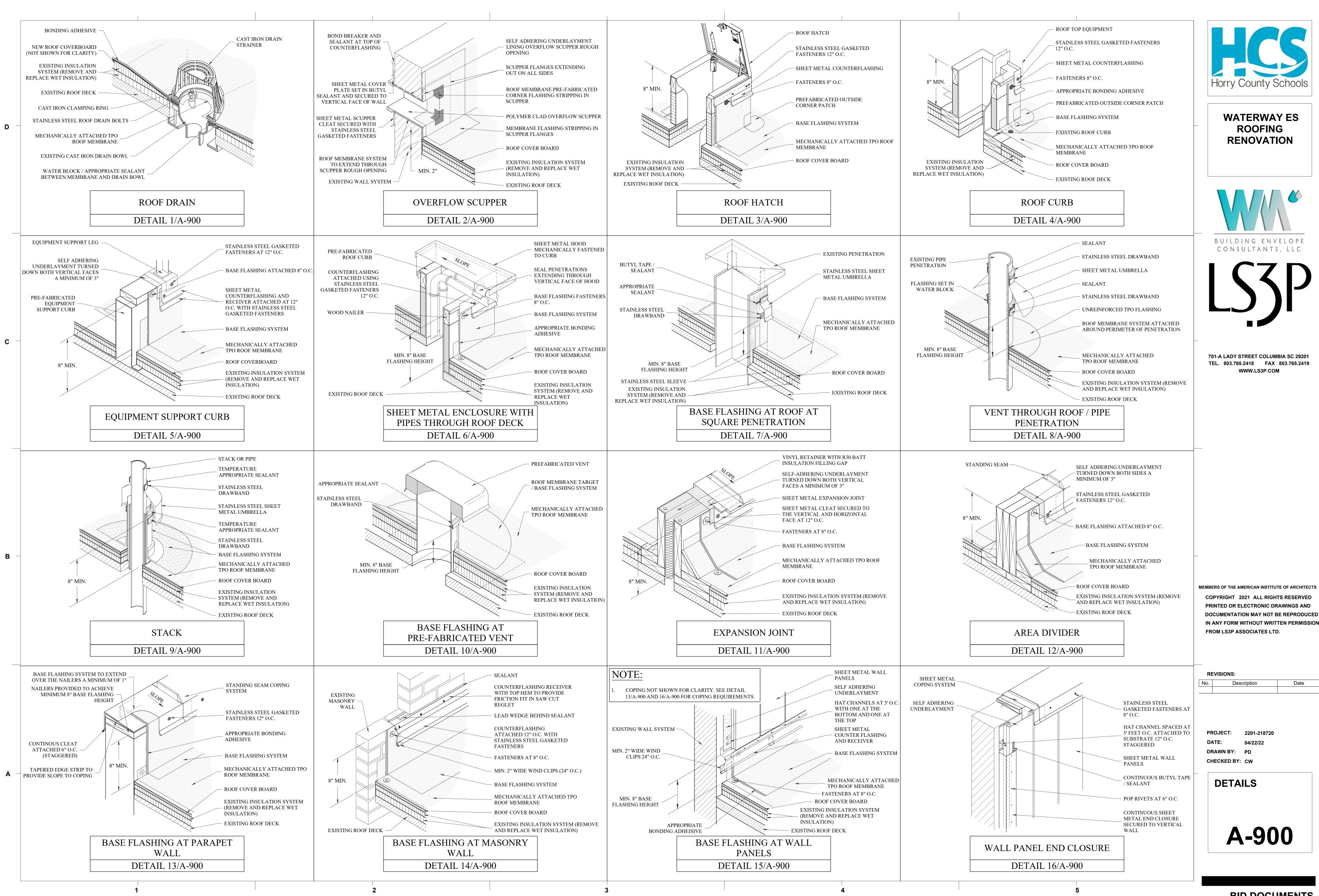
PARTIAL NEW **ROOF PLANS** (ALT. 2 & ALT. 3)

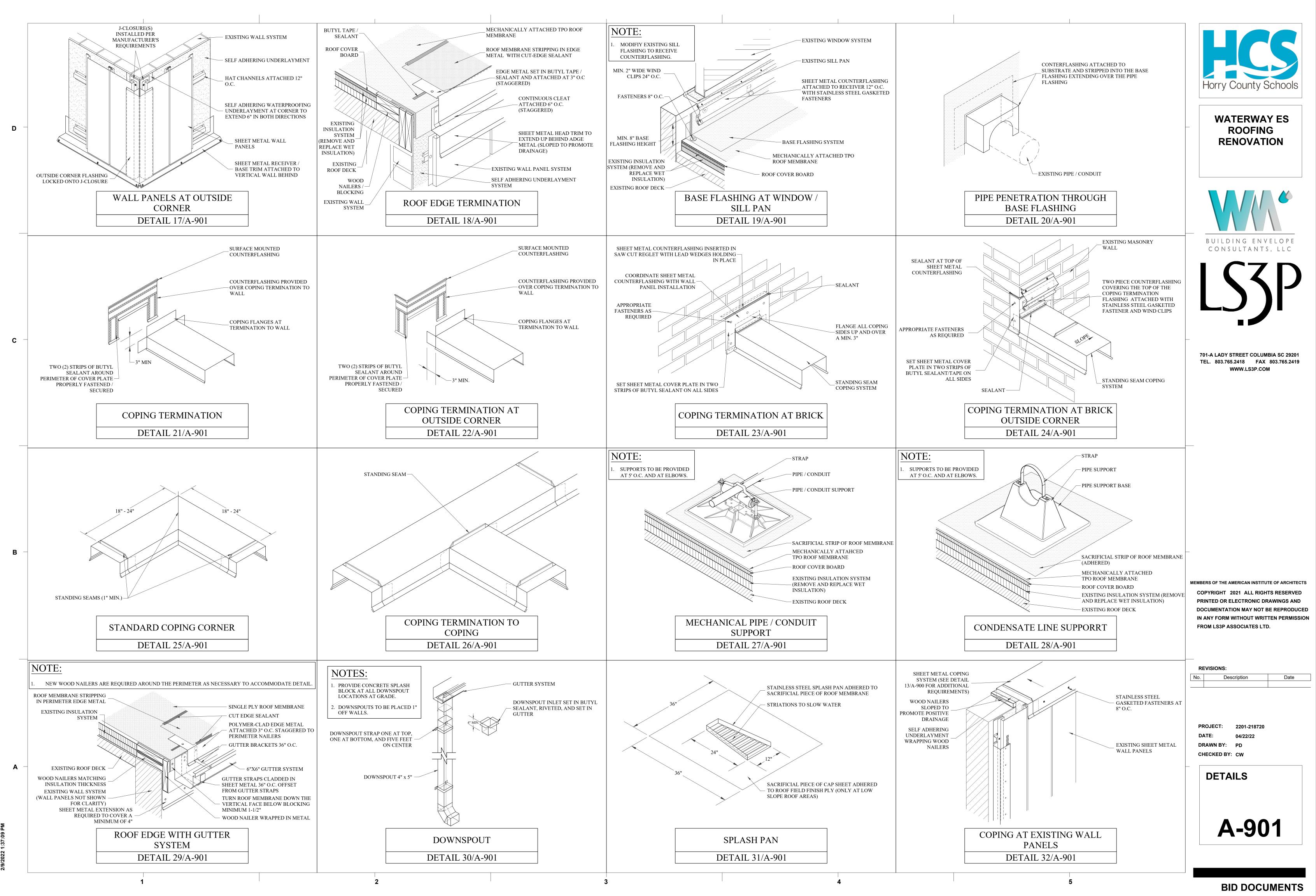
A-707



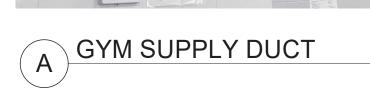
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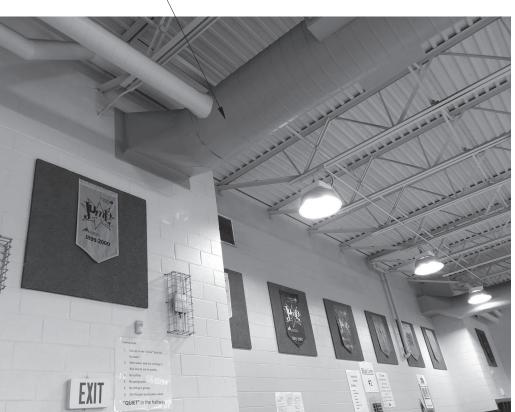






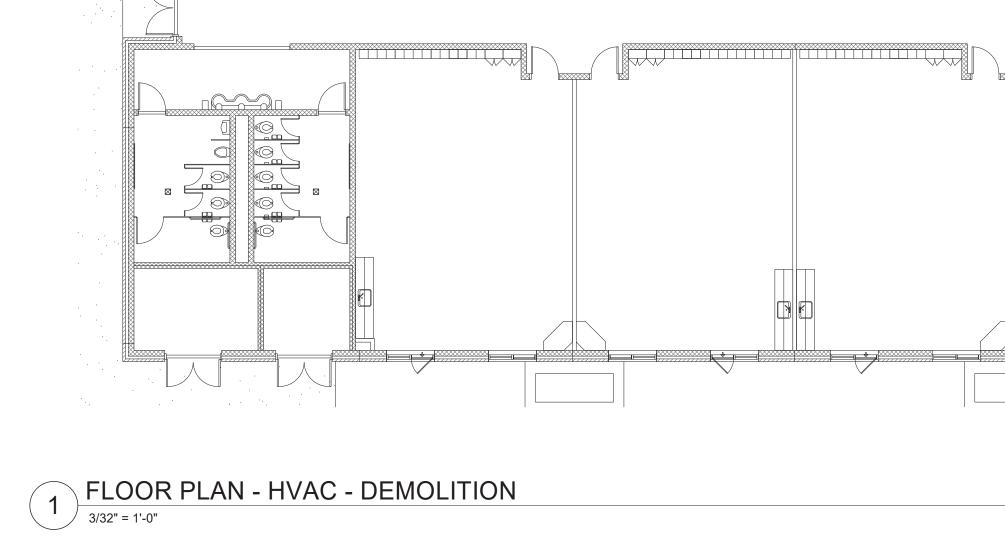
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AREA J

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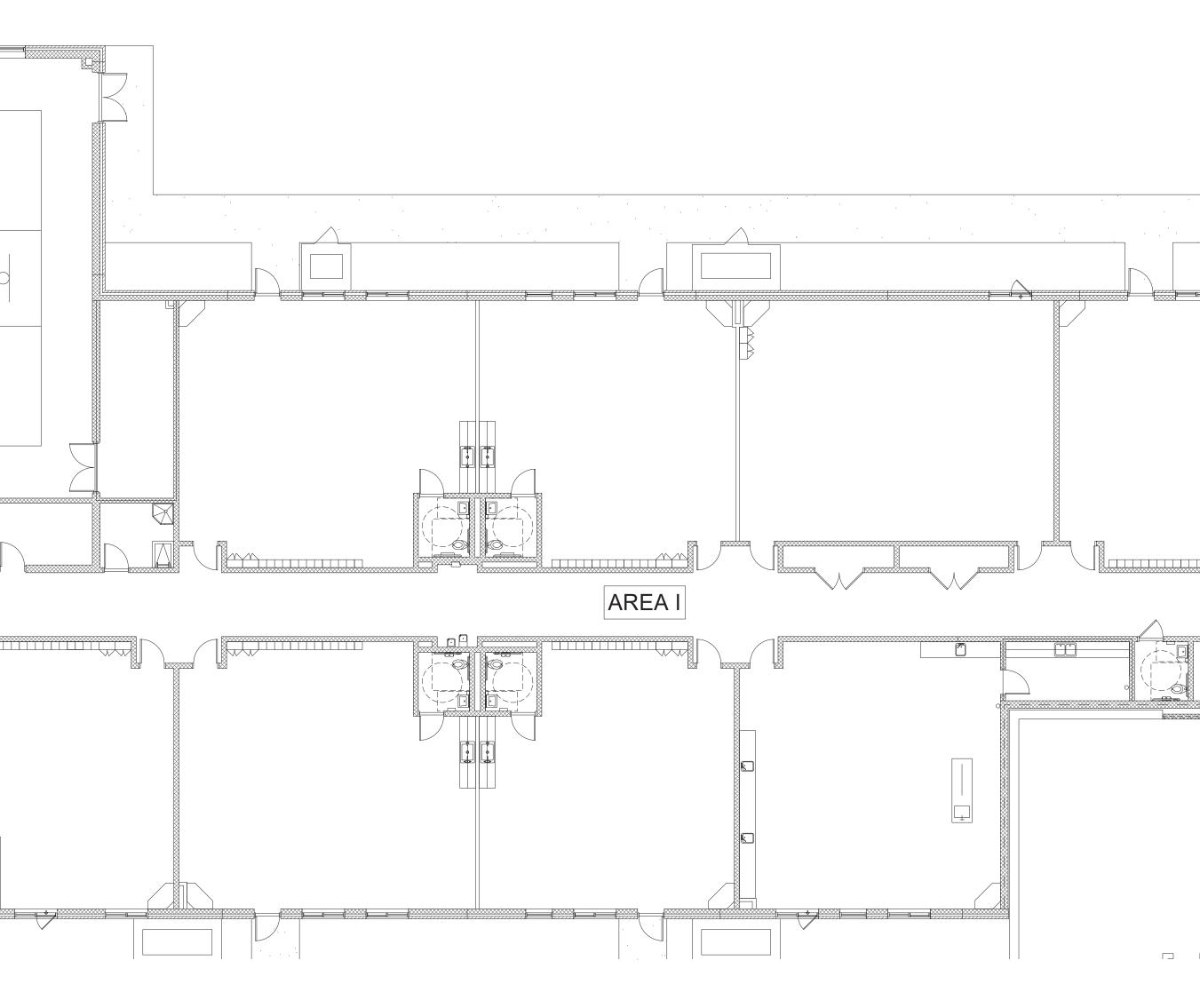
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(D1)



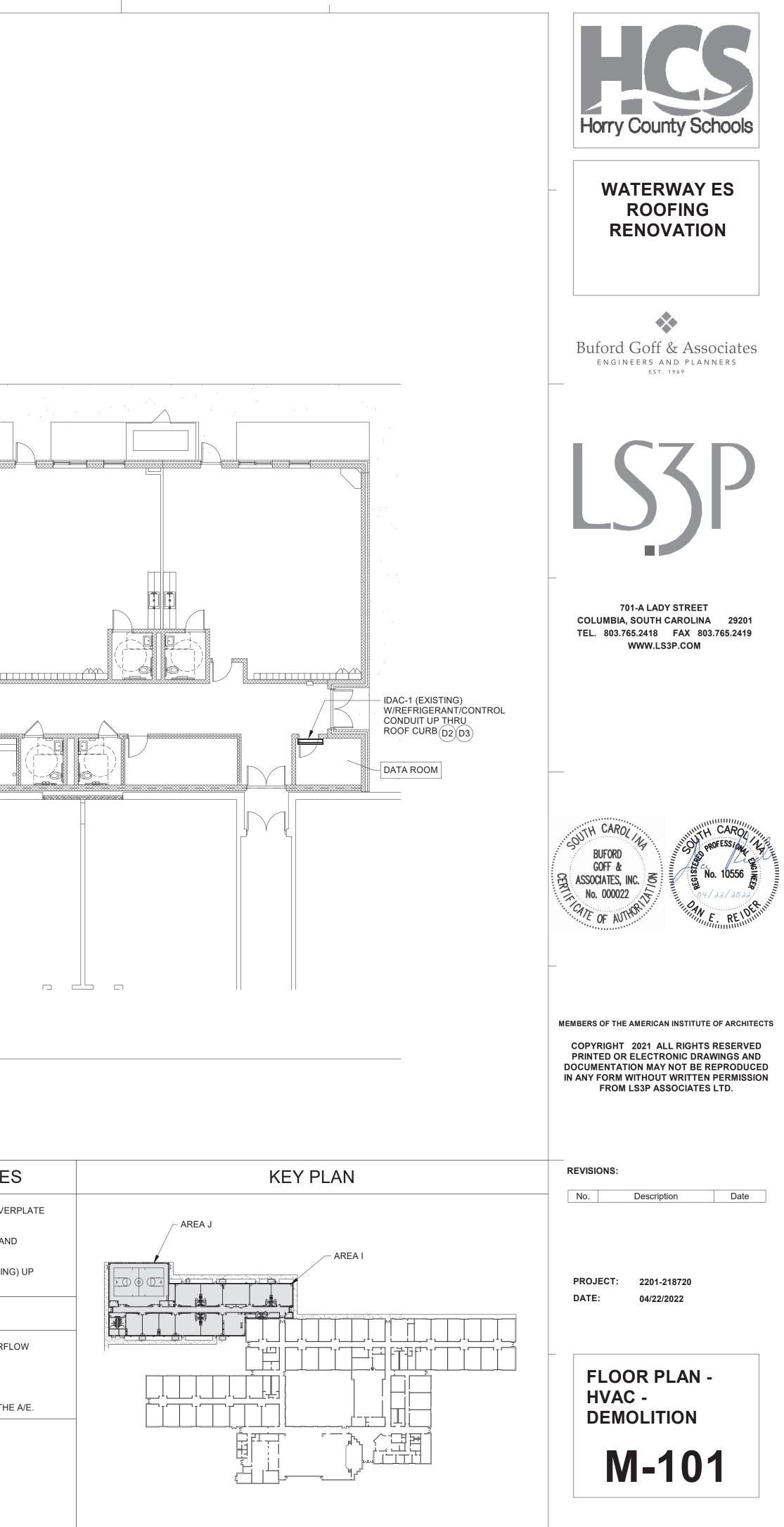
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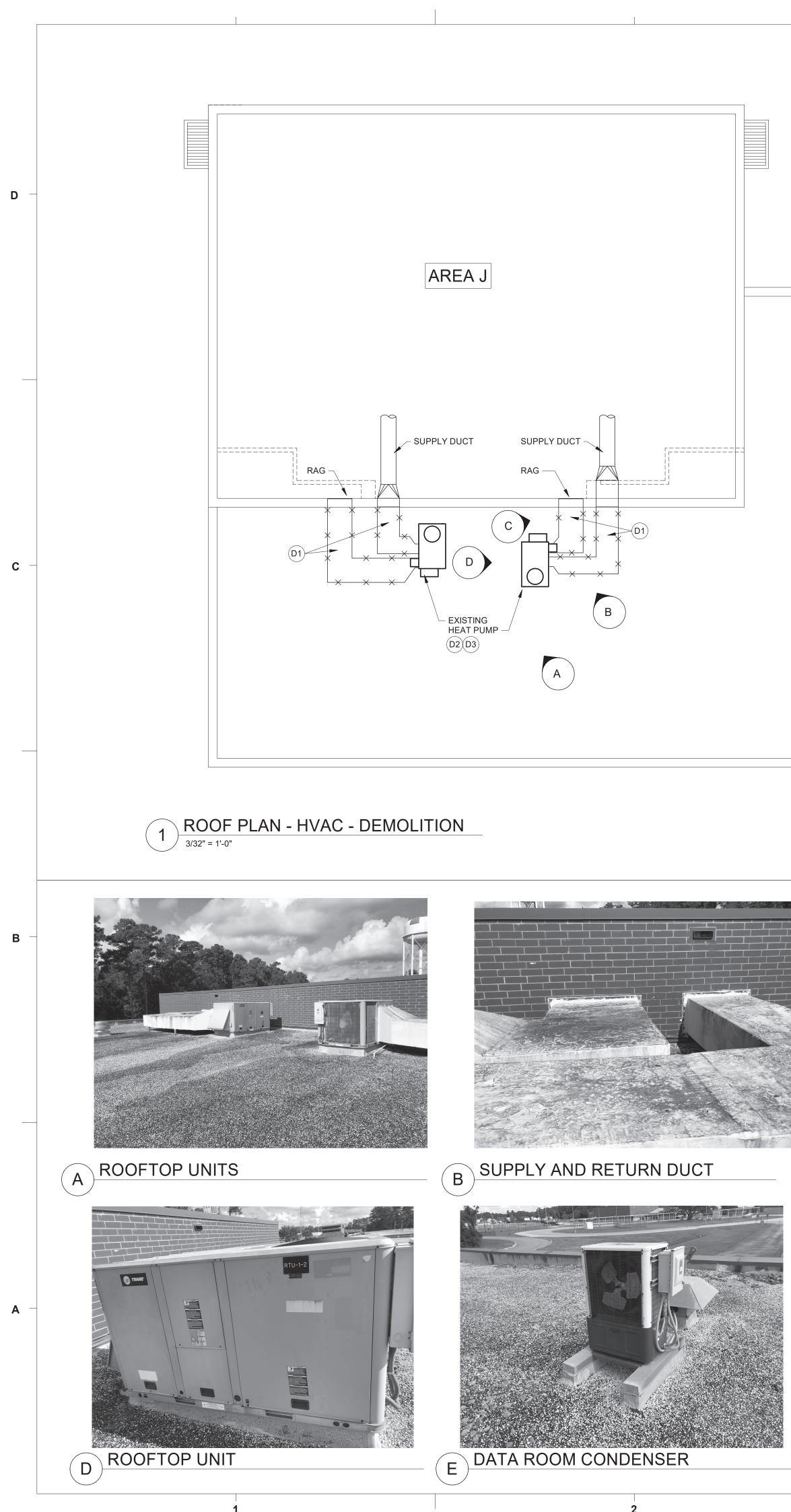
	MECHANICAL DEMOLITION NOTES
D1)	REMOVE EXISTING THERMOSTAT. PROVIDE STAINLESS STEEL COVERPLATE FOR SPHP-1 & SPHP-2.
D2	REMOVE EXISTING INDOOR UNIT (IDAC-1), CONTROLS, SUPPORTS AND ACCESSORIES.
D3	REMOVE REFRIGERANT LINES AND CONTROLS (CONDUIT AND WIRING) UP THROUGH ROOF CURB TO OUTDOOR UNIT (ODAC-1).
	TEST AND BALANCE
1.	BEFORE ANY DEMOLITION WORK IS PERFORMED, MEASURE AIRFLOW AT ALL SUPPLY AND RETURN GRILLES WITHIN THE GYM.
2.	SUBMIT PRE DEMOLITION REPORT TO THE A/E.
3.	AFTER THE NEW UNITS ARE INSTALLED, PROVIDE T & B PER SPECIFICATIONS. SET AIRFLOWS TO VALUES DETERMINED BY THE A/E.

ALTERNATE NO. 4:

REPLACE ROOFTOP HVAC UNITS AT ROOF AREA I.



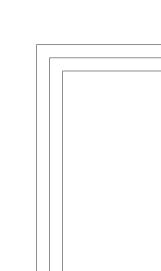




AREA I







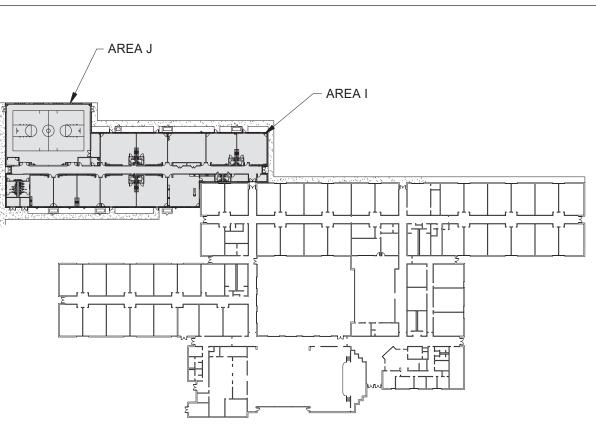
MECHANICAL DEMOLITION NOTES

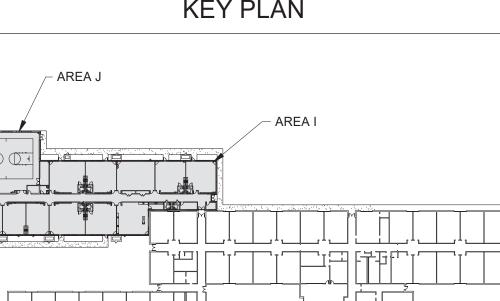
- D1 REMOVE EXISTING DUCT, INSULATION, SUPPORTS AND ACCESSORIES TO APPROXIMATELY 4" TO 8" FROM GYM HIGH WALL. SECURE THE EXISTING DUCT OPENING WEATHERTIGHT UNTIL NEW DUCT IS INSTALLED.
- D2 REMOVE EXISTING HEAT PUMP, CONTROLS AND ACCESSORIES. THE EXISTING CURB SHALL REMAIN. SECURE THE CURB WEATHERTIGHT UNTIL THE NEW UNIT IS INSTALLED.
- (D3) REMOVE EXISTING DRAIN LINE AND SUPPORTS.
- D4 REMOVE EXISTING CONDENSER UNIT AND RAIL CAP. EXISTING EQUIPMENT RAILS SHALL BE EXTENDED.
- D5 REMOVE REFRIGERANT LINES, CONDUIT AND WIRING FROM CONDENSER, THROUGH THE CURB, AND DOWN TO THE EXISTING INDOOR UNIT IN THE DATA ROOM.
- (D6) REMOVE THE EXISTING HOOD FROM THE CURB. THE EXISTING CURB SHALL BE EXTENDED. SECURE THE CURB WEATHERTIGHT UNTIL THE NEW HOOD, PIPING, AND CONDUIT IS INSTALLED.

ALTERNATE NO. 4:

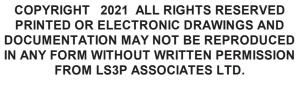
REPLACE ROOFTOP HVAC UNITS AT ROOF AREA I.











Description

2201-218720

04/22/2022

ROOF PLAN -

DEMOLITION

M-102

HVAC -

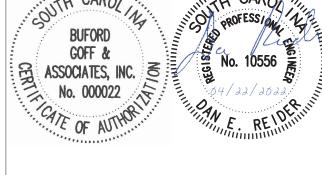
Date

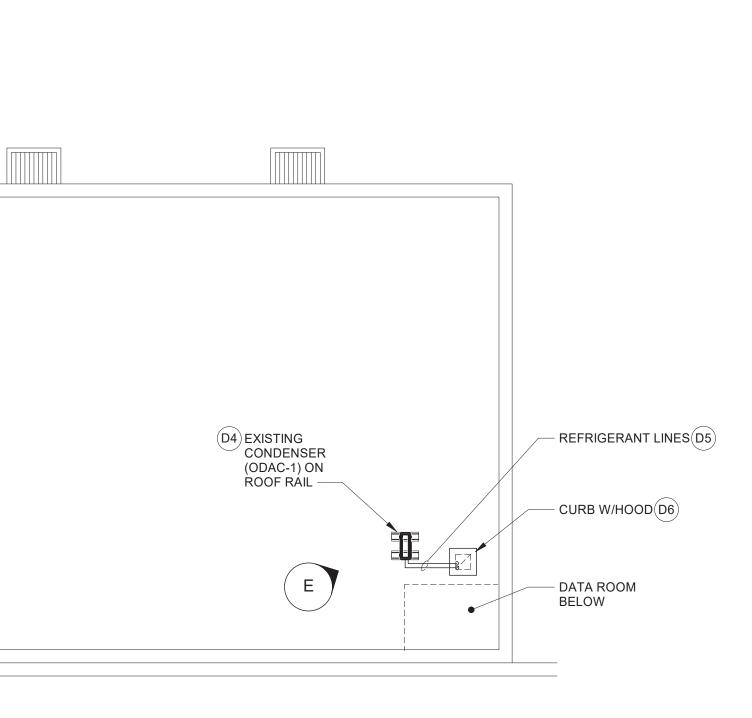
REVISIONS:

PROJECT:

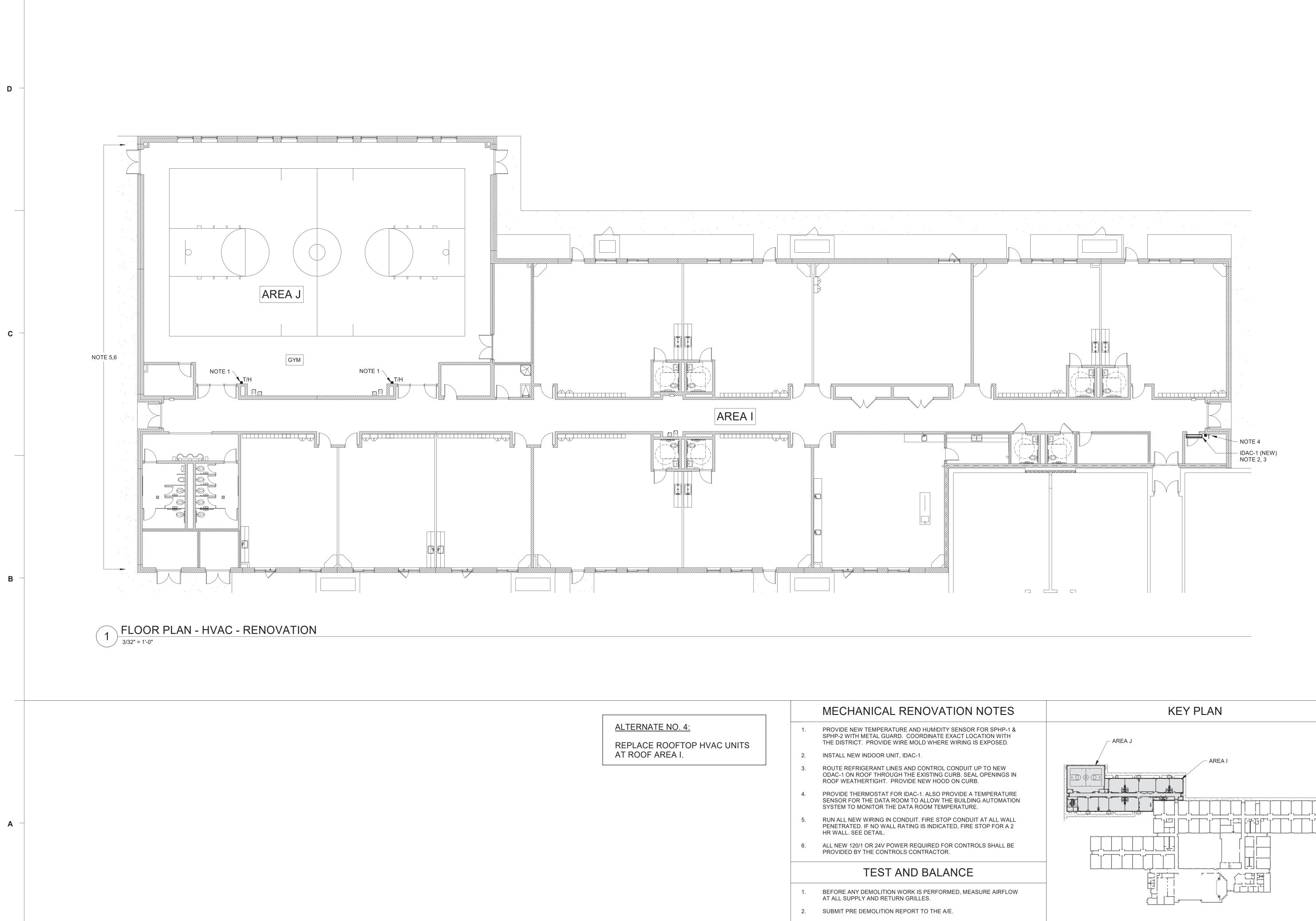
DATE:

No.



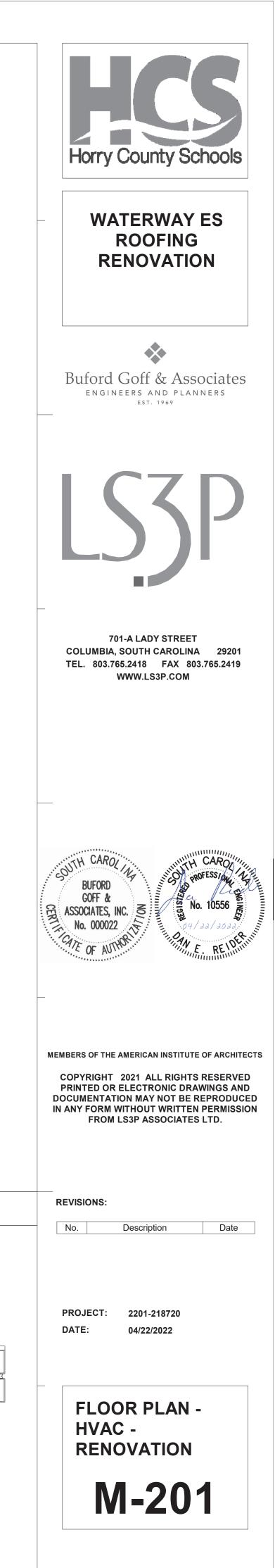


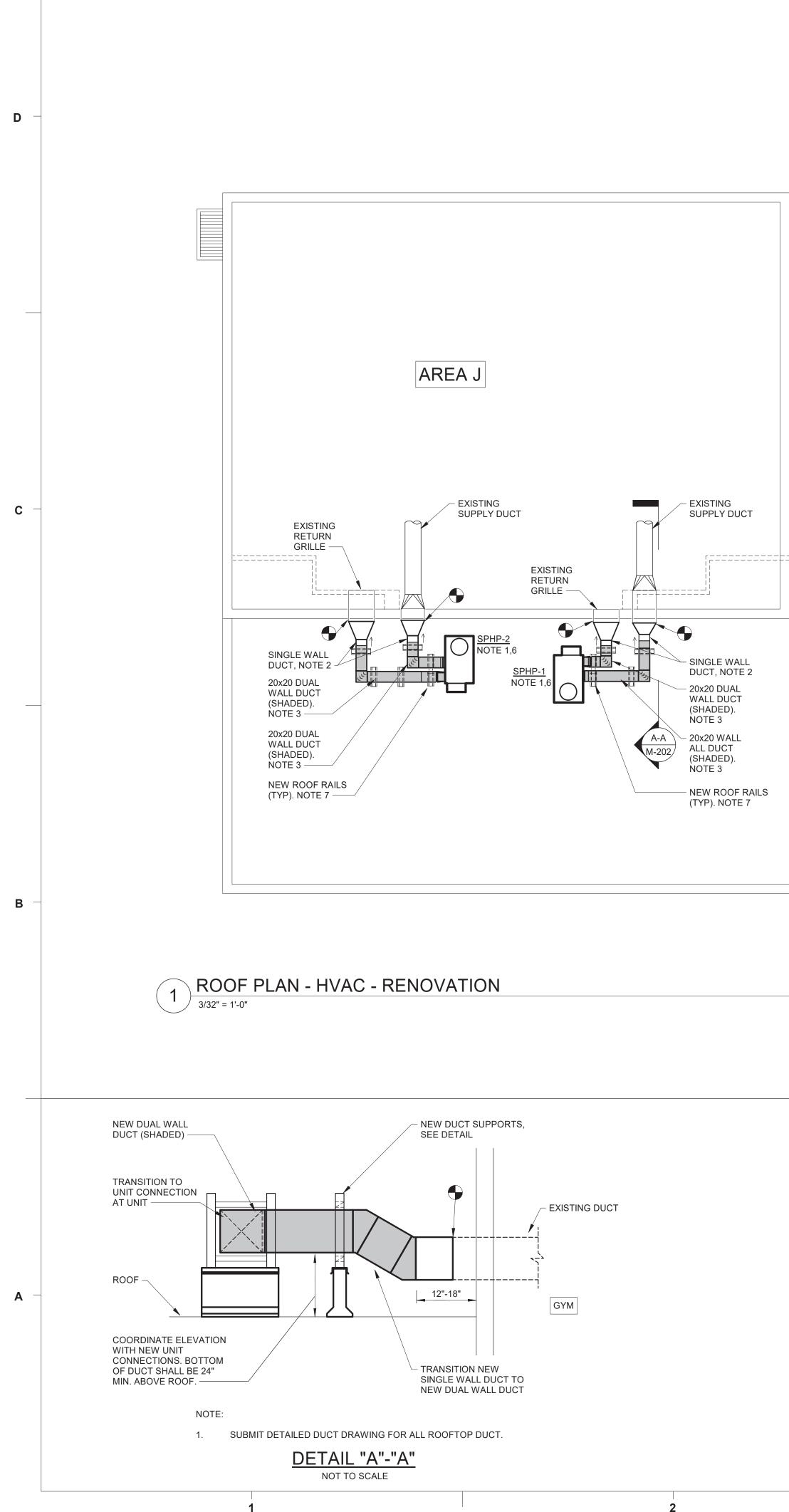




- AFTER THE NEW UNITS ARE INSTALLED, PROVIDE T & B PER 3. SPECIFICATIONS. SET AIRFLOWS TO VALUES DETERMINED BY THE A/E.







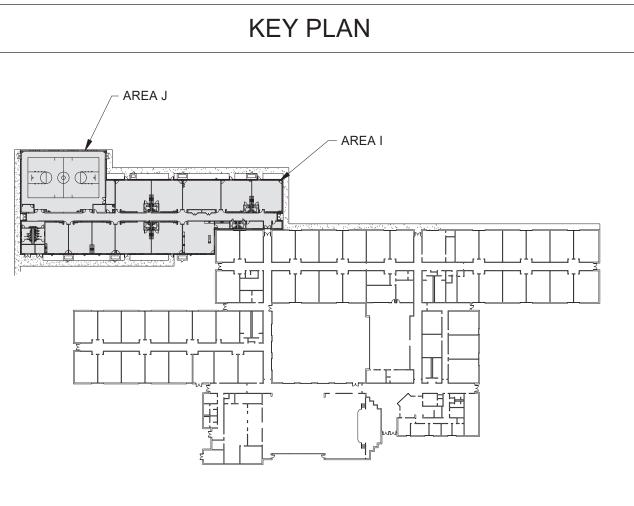
AREA	
ALTERNATE NO. 4: REPLACE ROOFTOP HVAC UNITS AT ROOF AREA I.	 MECHANICAL RENOVATION NOTES PROVIDE CURB EXTENSION AND ADAPTER CURB. COORDINATE SIZE WITH EXISTING CURB AND NEW UNIT. SUBMIT COORDINATION DRAWINGS TO A/E. SEE DETAIL FOR ADDITIONAL INFORMATION. TRANSITION SINGLE WALL DUCT TO EXISTING. DUCT MAY BE RESIZED BY THE CONTRACTOR AS LONG AS DUCT IS 400 SQUARE INCHES MINIMUM IN SIZE. PROVIDE 2 - 2"x4" TREATED WOOD STACKED AND SECURED TO EXISTING CURB. TRIM WOOD TO WIDTH OF EXISTING CURB. ROUTE PIPING AND CONDUIT DOWN THROUGH CURB/HOOD TO IDAC-1. SEAL THE PIPING AND CONDUIT THROUGH THE HOOD WEATHERTIGHT. ROUTE UNIT DRAIN TO ROOF DRAIN. SEE DETAIL. PROVIDE NEW ROOF RAILS TO SUPPORT DUCT. COORDINATE LOCATION WITH ROOFING CONTRACTOR. SEE DETAIL. INSTALL NEW ODAC-1 ON EXISTING EQUIPMENT RAILS. ROUTE PIPING AND CONDUIT TO THE EXISTING ROOF CURB. PROVIDE NEW CURB CAP.

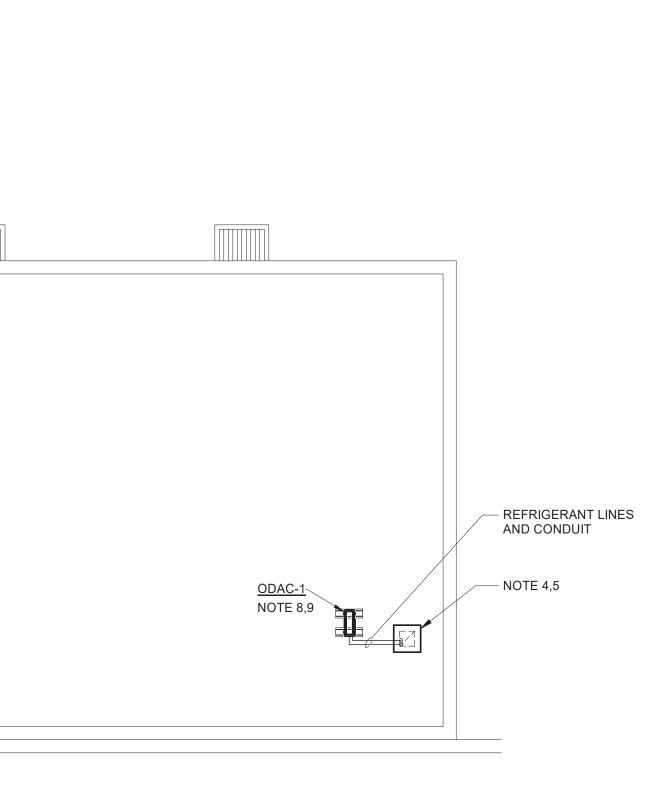


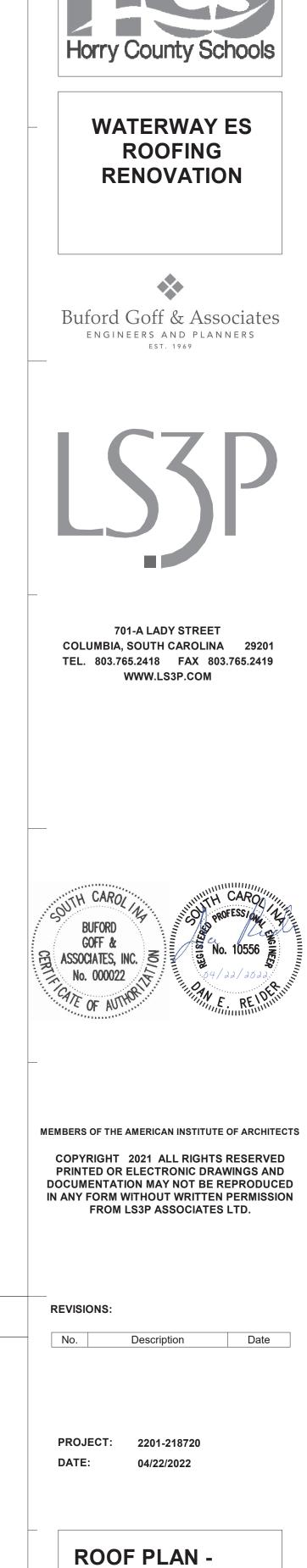
HVAC -

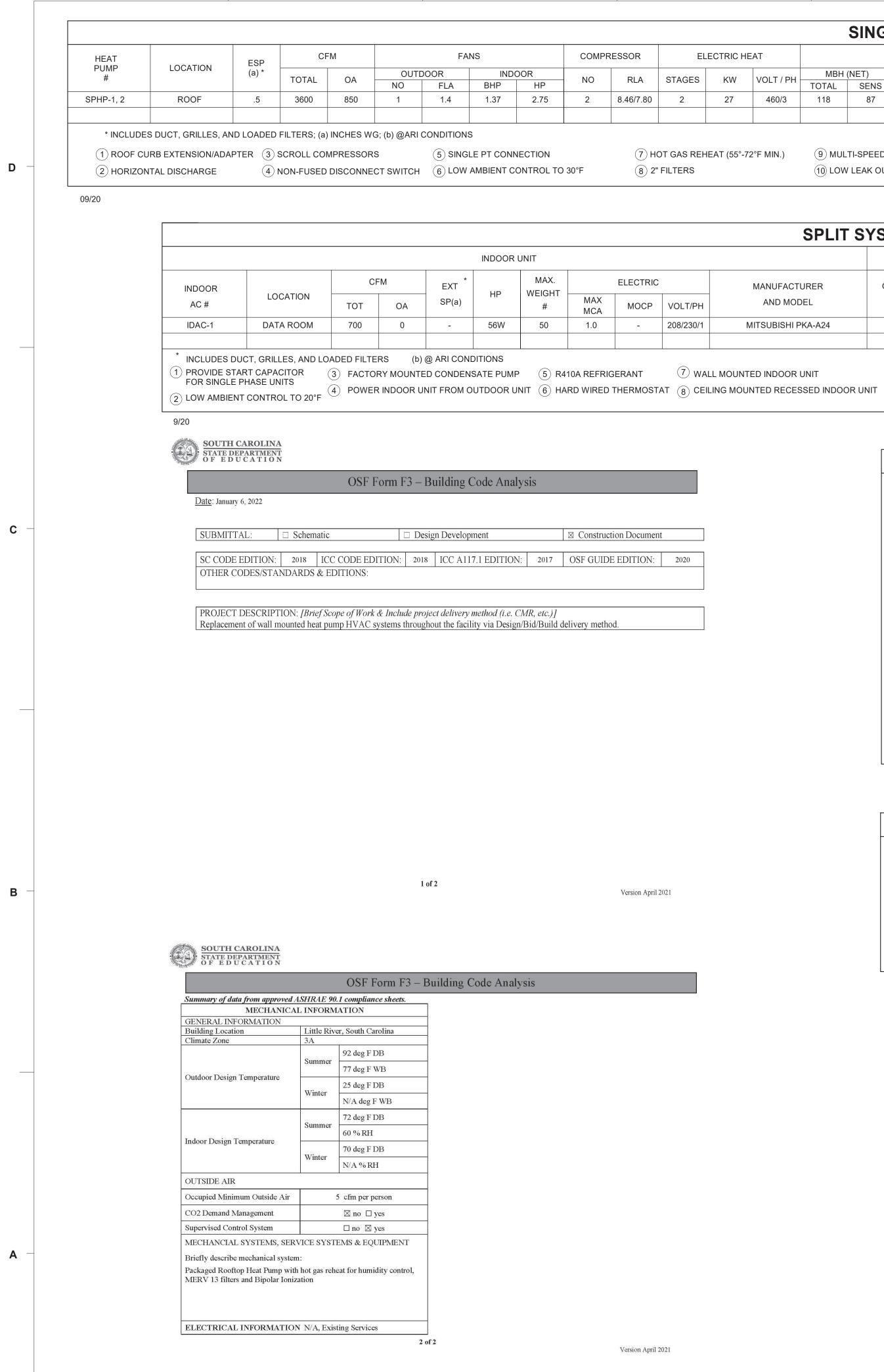
RENOVATION

M-202









SINGLE PACKAGE HEAT PUMP SCHEDULE

FRIC H	EAT				COOLING	G COIL CAPA	ACITY						HEA	TING														
KW	VOLT / PH	MBH	(NET)	OUTDOOR	ENTER	ENTERING AIR		LEAVING AIR		LEAVING AIR		LEAVING AIR		LEAVING AIR		LEAVING AIR		LEAVING AIR		IR LEAVING AIR		SEER (b)	ENT	@ `	17 F	@ 4	47 F	HSPF (b)
r v v	VOLI/PH	TOTAL	SENS	DB T	DB	WB	DB	WB	EER (b)	SEER (D)	DB T	MBH	COP	MBH	COP													
27	460/3	118	87	95	80	67	55.5	55.4	11.5	16.0	60	-	-	114	-	-												

(9) MULTI-SPEED, DIRECT DRIVE INDOOR FAN MOTOR (10) LOW LEAK OUTSIDE AIR DAMPER

11 NEEDLEPOINT BIPOLAR IONIZATION (13) THRU BASE ELECTRICAL

(12) R410A REFRIGERANT

SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE (DUCTLESS)

		OUTDOOR UNIT										
MANUFACTURER	OUTDOOR	FA	NS	COMPF	RESSOR	MAX. WEIGHT		ELECTRIC		MANUFACTURER	MBH	(NET)
AND MODEL	AC #	HP	NO	NO	RLA	#	MAX MCA	MOCP	VOLT/PH	AND MODEL	тот	SEN
MITSUBISHI PKA-A24	ODAC-1	.75	1	1	12	150	18	30	208/230/1	MITSUBISHI PUY-A24	24	18.5

 $\overrightarrow{0}$ wall mounted indoor unit

MECHANICAL ABBREVIATIONS AFF ABOVE FINISH FLOOR INCHES IN OUTDOOR AIR CONDITIONER NO.1 CFM CUBIC FEET PER MINUTE. ODAC-1 CLG ODP OPEN DRIP PROOF CEILING DRAIN PD PRESSURE DROP D EFF EFFICIENCY PH PHASE ELEC ELECTRICAL REF REFRIGERANT LINES ESP EXTERNAL STATIC PRESSURE SF SQUARE FOOT EXT EXTERNAL SPHP-1 SINGLE PACKAGE HEAT PUMP NO.1 FPS FEET PER SECOND TA THROW AWAY (FILTER) FT FEET VELOCITY VEL FLR FLOOR VOLT VOLTAGE HP HORSE POWER INDOOR AIR CONDITIONER NO.1 IDAC-1

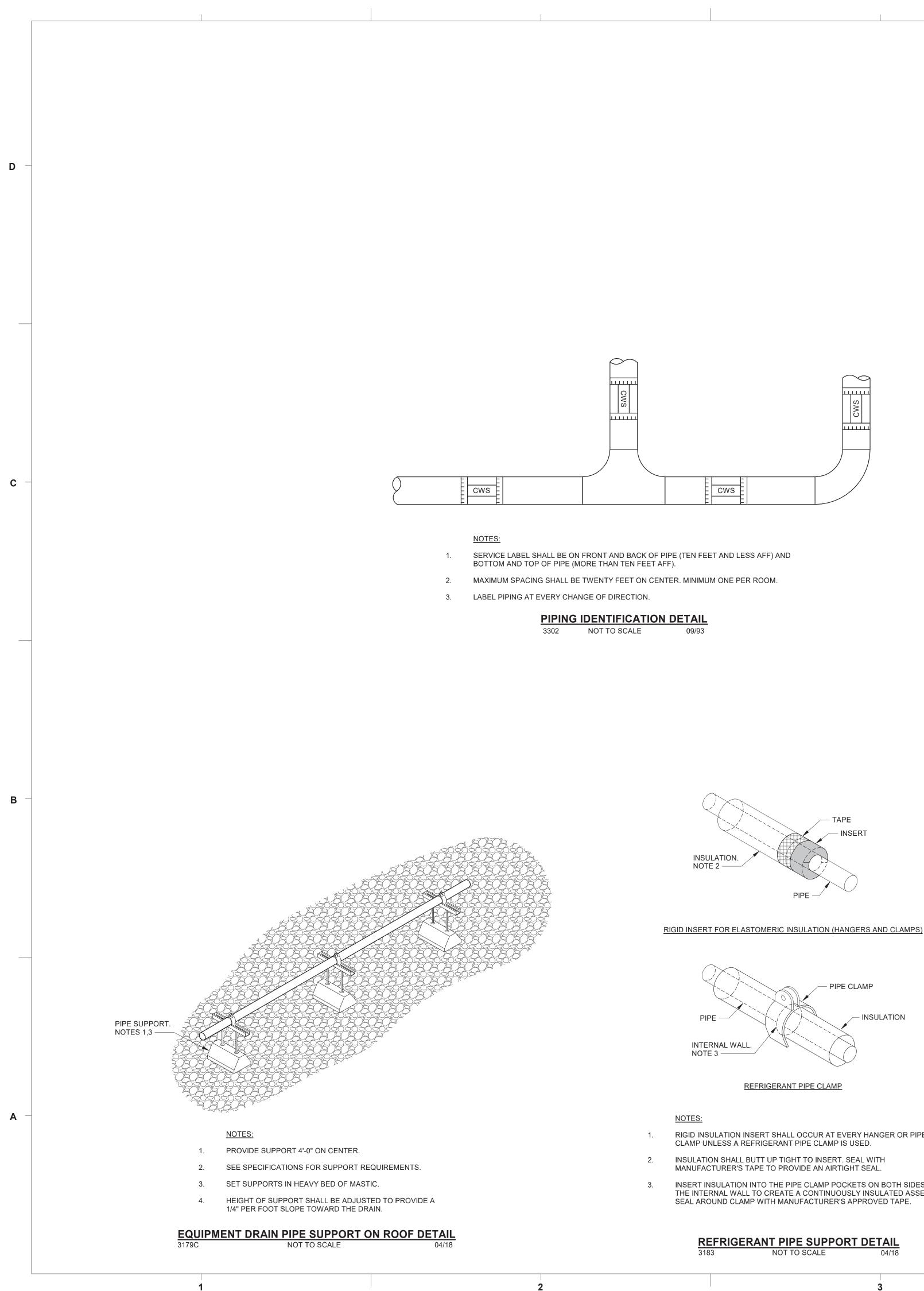
4/01

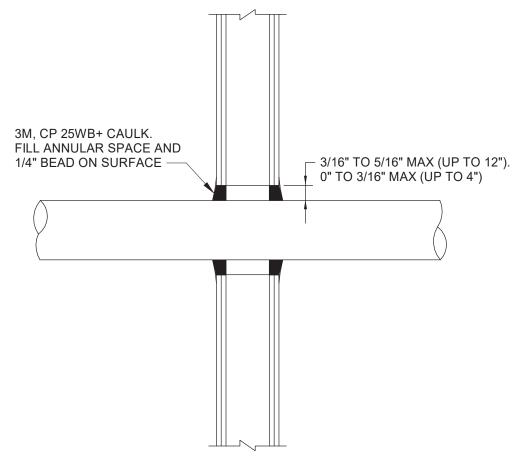
S3956

	MECHANICAL SYN	IBOL LE	GEND	
\boxtimes	SUPPLY OR OUTSIDE AIR GRILLE	T	THERMOSTAT / SPACE SENSOR	
	DUAL WALL DUCT (SHADED OR WHERE NOTED)	H H	HUMIDISTAT / HUMIDITY SENSOR	
10x8	INSIDE DUCT DIMENSION		CONNECT NEW TO EXISTING	
		H	CONTROL WIRING	
6/20				S3950

DUCT PRESSURE CLASSIFICATION						
DUCT	SYSTEM	PRESSURE	STATIC PRESSURE CLASS (INWG)			
RETURN DUCT	ALL SYSTEM RETURNS	NEG	-2"			
SUPPLY DUCT	ALL OTHER SYSTEM SUPPLYS	POS	+2"			
6/02	•		S3958			

MAX WEIGHT (#) 1500	ΜΑΥ	ECTRICAL MOCP	VOLT / PH	IANUFACTUREF AND MODEL FRANE WHC 120		REMARKS 12345678910111213		Horry County Schools
							S3251B	WATERWAY ES ROOFING RENOVATION
	CC		UL CAPACITY					
(NET)	OUTDOOR ENT AIR LVG AIR				2		REMARKS	
SENS 18.5	DB T 97	DB 75	WB 65	DB -	WB -	SEER(b) 17.0	1234567	Buford Goff & Associates ENGINEERS AND PLANNERS EST. 1969
1.	DO NOT S	SCALE DR	AWINGS, SEE	GENERA E ARCHITECTUR '(TO TOP OF DE' WISE.	AL AND	ROOF DRAW	S3252E	LSJP
 ALL PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE SPECIFICATIONS. SUPPORT DETAILS SHALL BE SUBMITTED TO THE MECHANICAL ENGINEER. PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCT, AI HANDLING UNITS, FANS, AND ALL OTHER EQUIPMENT AND APPURTENANCES. ALL DUCT SHALL BE GALVANIZED SHEETMETAL EXCEPT AS NOTED. 						T, AIR	701-A LADY STREET COLUMBIA, SOUTH CAROLINA 29201 TEL. 803.765.2418 FAX 803.765.2419 WWW.LS3P.COM	
6.	DUCT SIZ	ZES INDICA	TED SHALL E	BE CLEAR INSID	E DIMEN	NSIONS.		
1. 2. 3. 4. 7/17	DRAWING LOCATIO SYSTEM CONDITIG DEMOLIT INCLUDE CONDUIT INSTALLA ALL OPEI EXISTING	GS SHOW (NS, SIZES INSTALLED ONS. CON ION OF EC ALL SUPP T, ACCESS ATION OF T NINGS CRE S SYSTEMS	GENERAL IN AND EQUIPM D AND DOES TRACTOR SH ORTS, PADS ORIES, AND A THE NEW SYS EATED BY TH S SHALL BE P	IE ABANDONMEI	LITION. VN TO IN RILY REF IFY BEF OMPON ULATIO ES NOT	QUANTITIES, NDICATE TYP PRESENT EX ORE BIDDING ENTS SHALL N, CONTROLS REQUIRED FOR REQUIRED FOR	E OF ACT S. S, OR THE	BUFORD GOFF & ASSOCIATES, INC. S No. 000022 HT GYTE OF AUTHORITE
1.	THE UNIT EXISTING ANY UNIT UNIT COL A VENDO SUBMIT A SHOWIN	DR AP	PROVA IG CONFIGUE ONS ED SHALL NO S, ACCESS D STING PRIOR TH THEIR UN IE DUCT ROU	R APPROVAL TO IT PERFORMAN ITING WILL NOT	UTING IN IPEDE E BID THI CE, A SI BLOCK	S VERY LIMIT EASY ACCESS S PROJECT S KETCH CLEAF OR IMPEDE F	2) S ED BY S TO SHALL RLY EASY	MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS COPYRIGHT 2021 ALL RIGHTS RESERVED PRINTED OR ELECTRONIC DRAWINGS AND DOCUMENTATION MAY NOT BE REPRODUCED IN ANY FORM WITHOUT WRITTEN PERMISSION FROM LS3P ASSOCIATES LTD.
	ACCESS	DOORS, E	N CATEG	ID DESIC	gn c			REVISIONS: No. Description Date PROJECT: 2201-218720 DATE: 04/22/2022
				vii 11				hvac schedules & notes M-301





- NOTES:
- REFER TO THE LATEST EDITION OF UL BUILDING MATERIAL DIRECTORY. 1. WALL OPENING SHALL BE CUT NEATLY. PROVIDE A SLEEVE IF THE WALL 2.

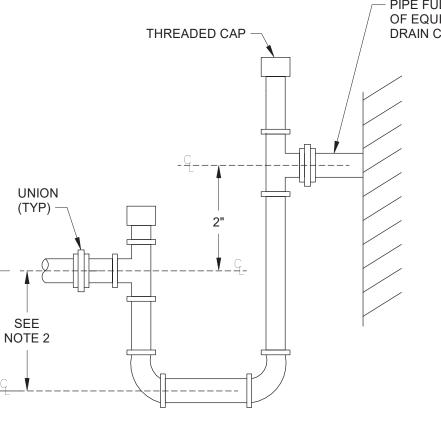
OPENING IS NOT CUT PROPERLY.

METAL CONDUIT THROUGH PENETRATION FIRESTOP SYSTEM (UL#WL1001) ONE AND TWO HOUR GYPSUM WALL DETAIL 3251B NOT TO SCALE 03/03

- RIGID INSULATION INSERT SHALL OCCUR AT EVERY HANGER OR PIPE
- INSERT INSULATION INTO THE PIPE CLAMP POCKETS ON BOTH SIDES UP TO THE INTERNAL WALL TO CREATE A CONTINUOUSLY INSULATED ASSEMBLY.

FLOW

SEE



BLOW THRU DRAIN

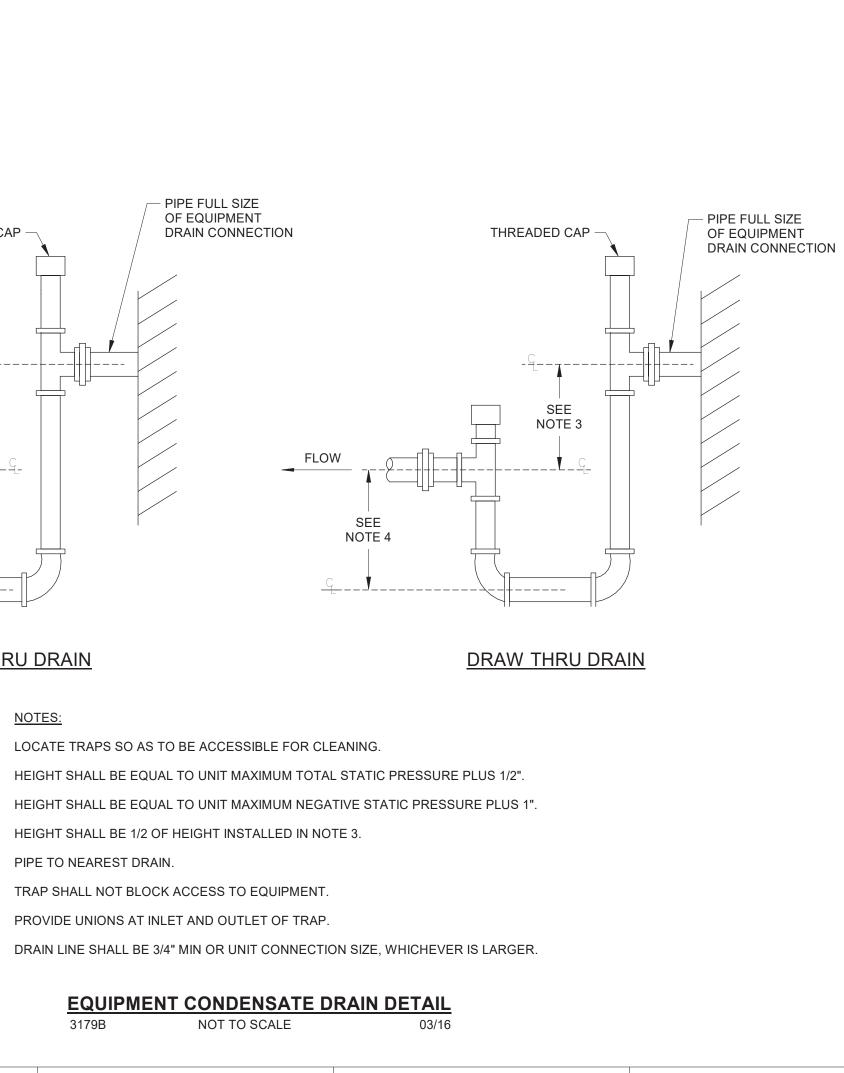
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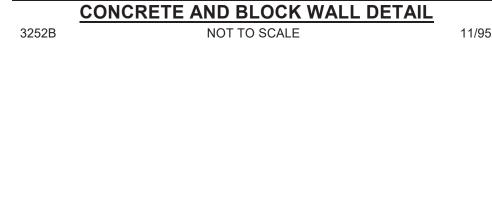
7.

8.

- NOTES: LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING. 1. 2. 3. HEIGHT SHALL BE 1/2 OF HEIGHT INSTALLED IN NOTE 3. 4. PIPE TO NEAREST DRAIN. 5.
- TRAP SHALL NOT BLOCK ACCESS TO EQUIPMENT. PROVIDE UNIONS AT INLET AND OUTLET OF TRAP.

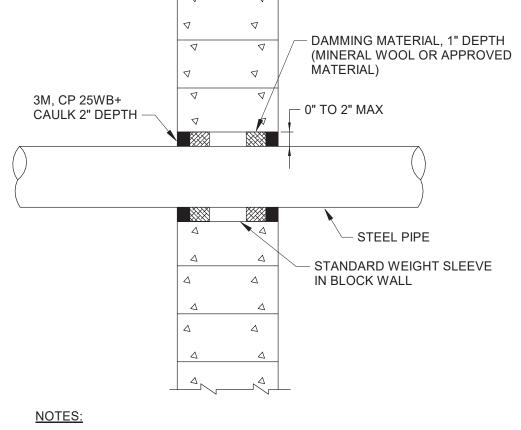
3179B

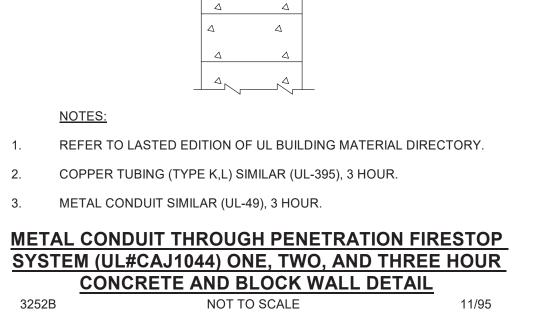


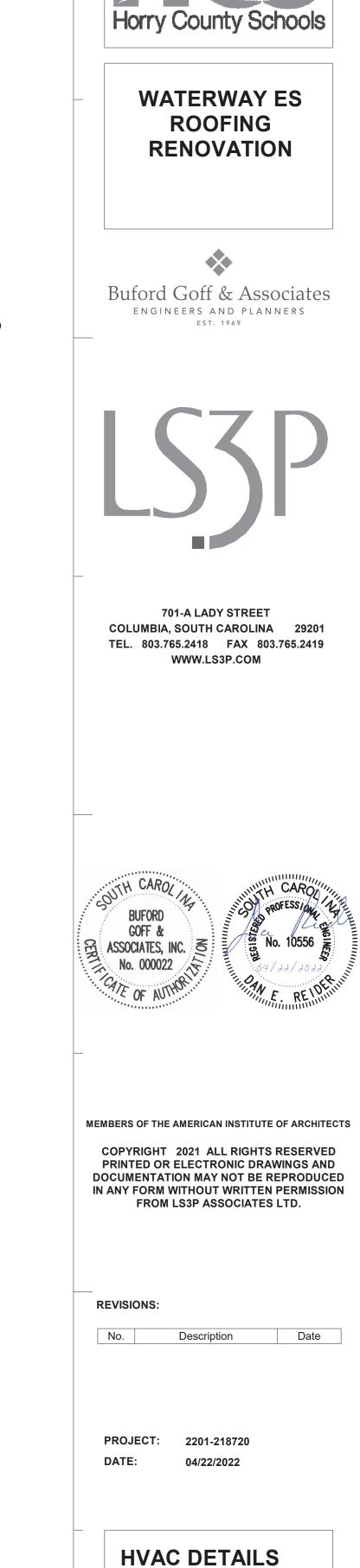


1.

2.

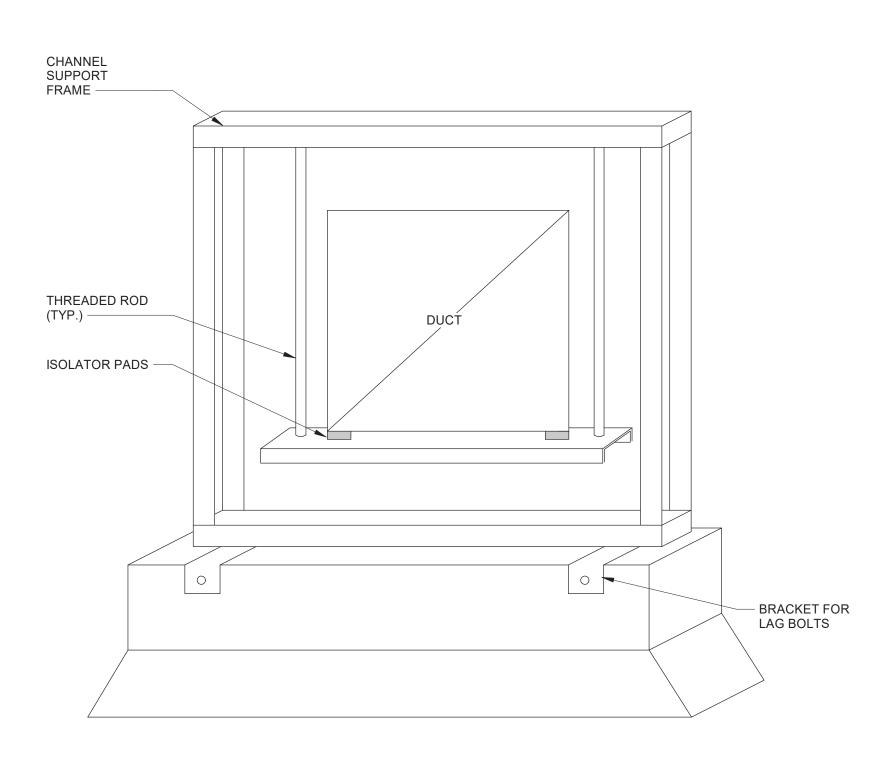






BID DOCUMENTS

M-401

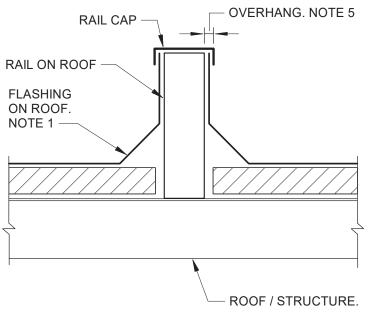


NOTES:

SUPPORT SHALL BE FABRICATED SO CHANNELS DO NOT 1 CATCH RAIN WATER. TOP CHANNEL SHALL BE DESIGNED TO BOLT TO VERTICAL 2. CHANNELS AFTER DUCT IS SET,

ROOF DUCT SUPPORT DETAIL

NOT TO SCALE 04/12 3326A



NOTES:

- 1. FLASHING ON DETAIL IS DIAGRAMMATIC ONLY. SEE ROOFING DETAILS FOR ACTUAL FLASHING AND COUNTER FLASHING REQUIRED. COORDINATE CURB INSTALLATION WITH ROOFING WORK.
- PROVIDE ROOF CURB TO MATCH ROOF SLOPE. 2.
- SPOT WELD OR ANCHOR CURB TO STRUCTURE. SEE SEISMIC FOR 3. ADDITIONAL REQUIREMENTS.
- 4. ATTACH CAP TO CURB 12" O.C., MINIMUM 2 PER SIDE.
- PROVIDE 3/4" SPACE BETWEEN PLENUM OR CAP OVERHANG AND CURB 5. FOR ROOFING AND FLASHING.
- 6. SEAL ALL PENETRATIONS WITH APPROVED CAULKING OR BITUMASTIC.

2

ROOFTOP DUCT SUPPORT RAIL DETAIL

3325C NOT TO SCALE

D

С

В

Α

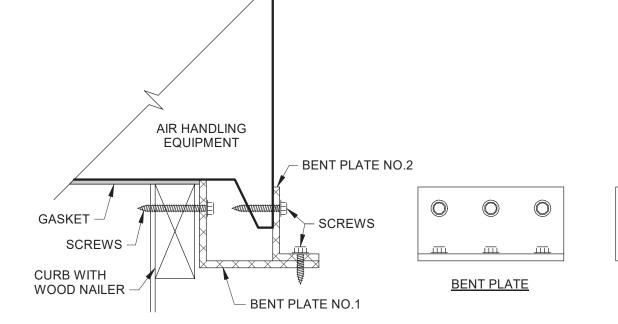
08/19

ROOFTOP UNIT ATTACHMENT TO CURB DETAIL - TYPE 1 3860A NOT TO SCALE

ENGINEER. ALTERNATE ATTACHMENT MAY BE ACCEPTABLE WHEN SUBMITTED BY THE 2. SEISMIC ENGINEER.

THIS DETAIL REPRESENTS A GENERAL INSTALLATION DETAIL. SPECIFIC SIZES OF BENT PLATES, FASTENERS, ETC., TO BE DETERMINED BY THE SEISMIC

NOTES:



NOT TO SCALE 10/10 3860B

ROOFTOP UNIT ATTACHMENT TO CURB DETAIL - TYPE 2

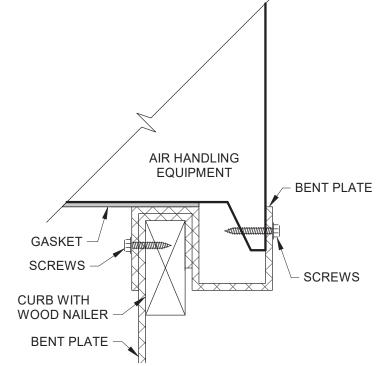
SEISMIC ENGINEER. ALTERNATE ATTACHMENT MAY BE ACCEPTABLE WHEN SUBMITTED BY 2. THE SEISMIC ENGINEER.

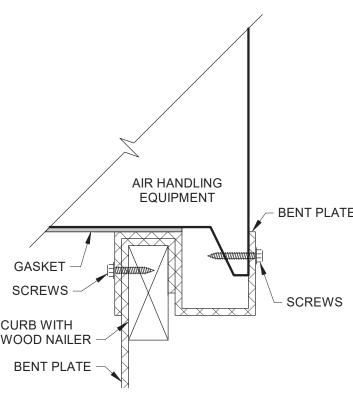
THIS DETAIL REPRESENTS A GENERAL INSTALLATION DETAIL. SPECIFIC

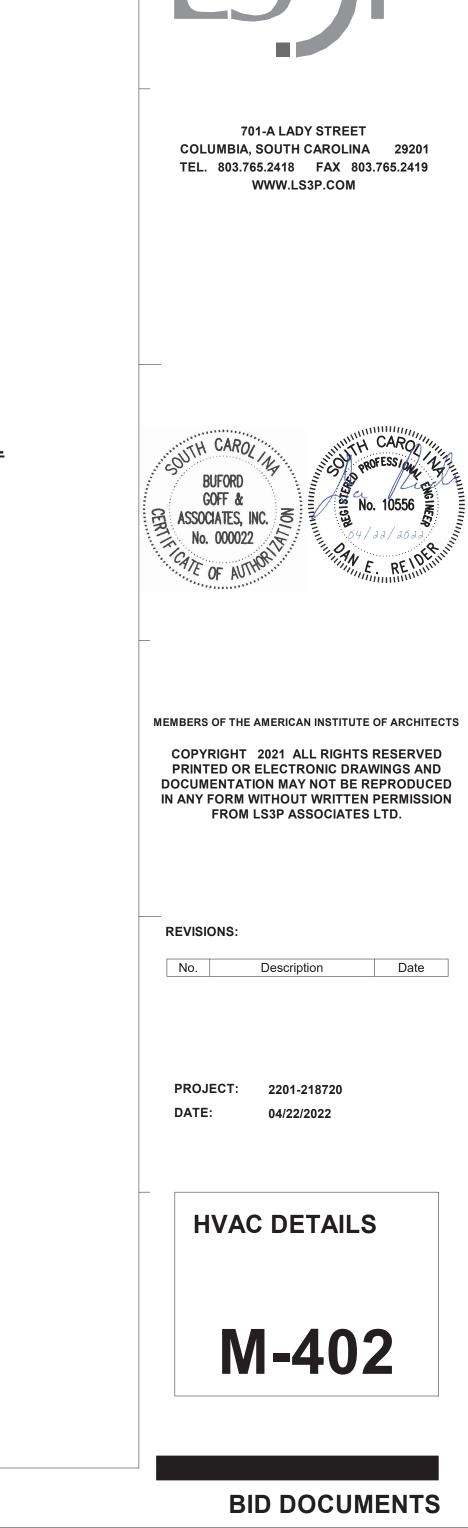
SIZES OF BENT PLATES, FASTENERS, ETC., TO BE DETERMINED BY THE

NOTES:

1.







Horry County Schools

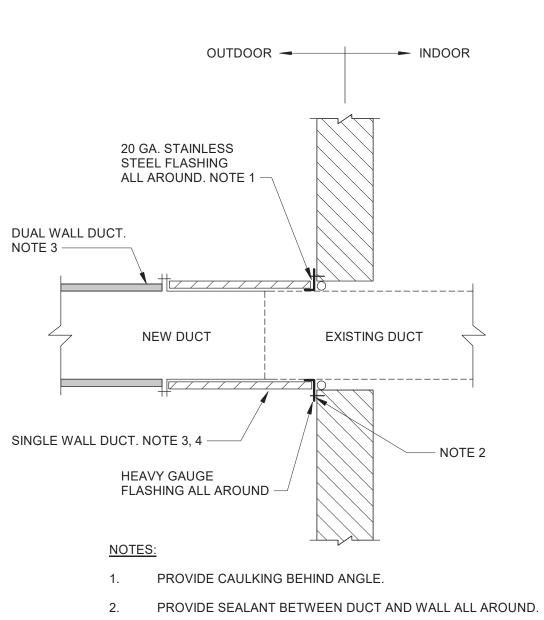
WATERWAY ES

ROOFING

RENOVATION

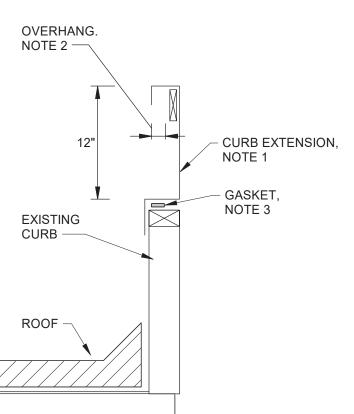
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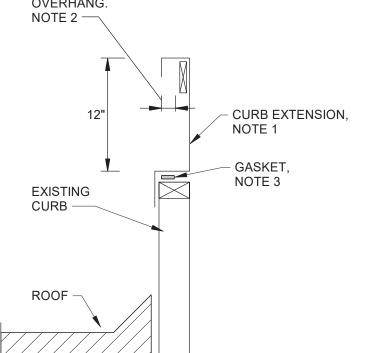
Buford Goff & Associates ENGINEERS AND PLANNERS EST. 1969



- 3. SEE SPECIFICATIONS
- 4. ELASTOMERIC INSULATION WITH METAL JACKET.

DUAL WALL DUCT THROUGH EXTERIOR WALL DETAIL NOT TO SCALE 3041C 10/09





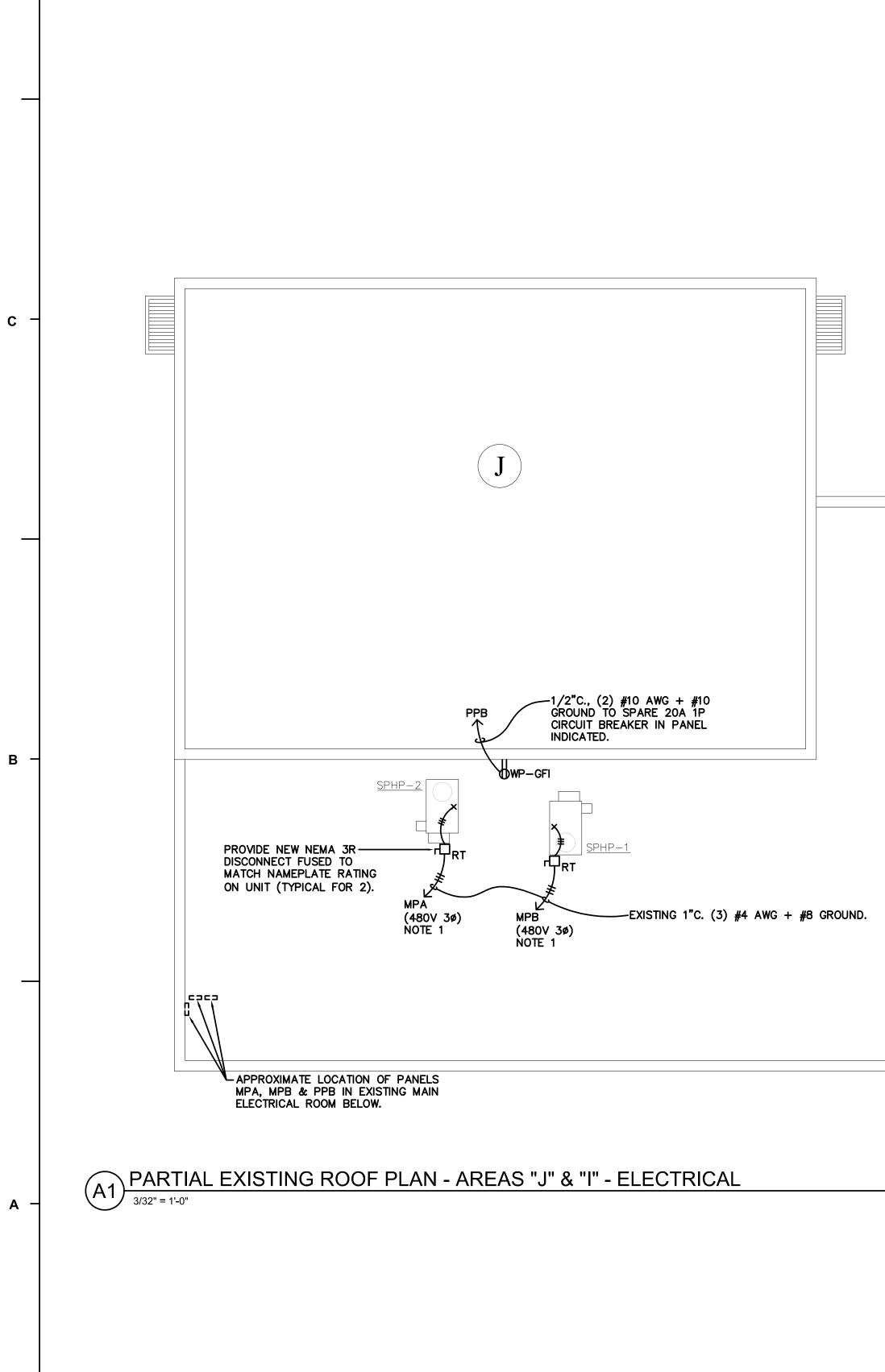


- SEE SPECIFICATIONS FOR MATERIALS REQUIRED. 1.

- PROVIDE 3/4" SPACE FOR ROOFING AND FLASHING
- 2.

- PROVIDE 1/8" NEOPRENE OR ELASTOMERIC GASKET BETWEEN CURB AND 3.
- EXTENSION.

ROOFTOP CURB EXTENSION NOT TO SCALE 12/21 3325E



D

STATE DEPARTMENT OF EDUCATION		
		Form F3
ELECTRICAL INFORM	MATION	
	📕 By Utility	
SERVICE TRANSFORMER		KVA
	By District	Voltaş
ELECTRICALSERVICE		
Service Voltage/Phase	Existing	Ampe
Service Entrance Conductors Size	Existing	Qty pe
Total Connected Load	Existing	KVA
Estimated Maximum Den	hand Existing	KVA
Available Fault Current in Amperes	Symmetrical	Existing -
Interrupting Capacity of S Overcurrent Device	Existing	
Grounding electrode syste (NEC 250)	Existing ·	
EMERGENCY SERVICE	E INFORMATION	I
		KVA
Emergency Generator (Not Applicable to Scope	□ no □ yes	Voltag
(not Applicable to Scope,	Fuel	
Exit/Emergency Lights Ba	🗆 Integral B	
		□ Generator
	☐ Manual	🗆 Addressał
Fire Alarm System		🗆 Class A
(Not Applicable to Scope	Automatic	□ Class B
LIGHTNING PROTECTI	ON PROVIDED	🚺 no 🗆 yes
		1

<u>NOTES:</u> 1. IT SHALL BE ACCEPTABLE TO REUSE EXISTING BRANCH CIRCUIT SERVING UNIT PROVIDING THE EXISTING CIRCUIT MATCHES ELECTRICAL RATINGS ON NEW REPLACEMENT UNIT NAMEPLATE. <u>ALTERNATE NO. 4:</u> WORK ON THIS SHEET SHALL BE

SYMBOL	DESCRIPTION			
	120V, 20A DUPLEX RECEPTACLE			
×	EQUIPMENT CONDUIT/CIRCUIT CONNECTION			
0	JUNCTION BOX, SIZE PER NEC UNLESS SIZE NOTED			
C C	FUSED SAFETY DISCONNECT SWITCH			
	CONDUIT RUN CONCEALED OVERHEAD OR IN WALLS			
	CONDUIT RUN EXPOSED			
	CONDUIT RUN IN OR UNDER FLOOR SLAB OR UNDERGROUND			
AFF	ABOVE FINISHED FLOOR			
UNO	UNLESS NOTED OTHERWISE			
C.	CONDUIT			
E.C.	EMPTY CONDUIT			
GFI	GROUND FAULT INTERRUPTER			
RT	RAINTIGHT, NEMA 3R UNO			
WP	WEATHER PROOF			
	KEYNOTE LABEL			
•	CONDUIT RUN, VERTICAL			

SOUTH CAROLINA

BID AS ALTERNATE #4.

Form F3 – Building Code Analysis

