

DAS PROJECT 9435.00

# HONEY CREEK RESORT - LODGE ROOF REPLACEMENT

12633 RESORT DR,  
MORAVIA, IA 52571

LOCATION MAP



IMAGE © < COPYRIGHT NOTICE >

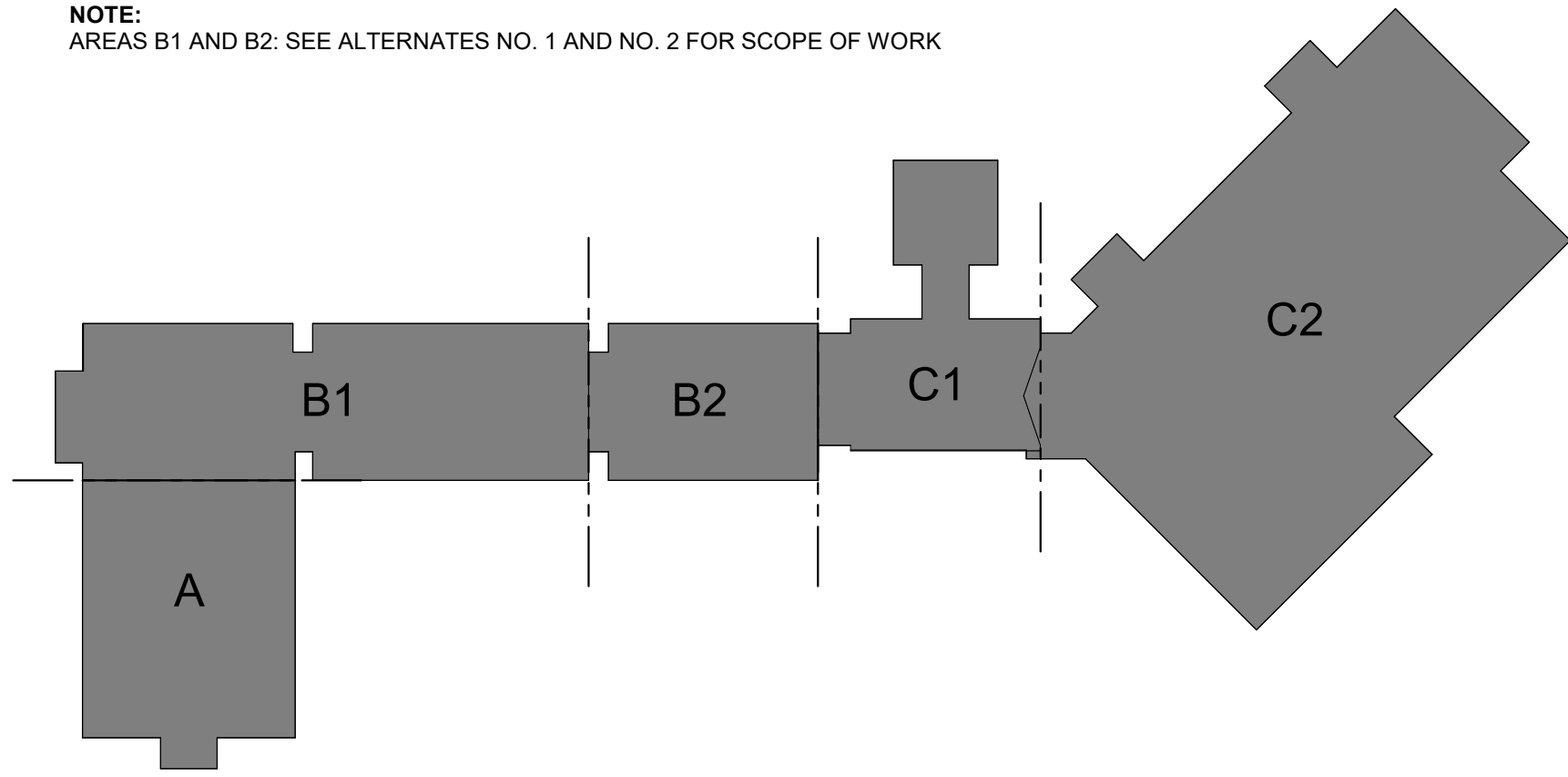
SYMBOLS LEGEND		ABBREVIATIONS		DRAWING LIST
NOTE: NOT ALL SYMBOLS ARE USED IN CONSTRUCTION DOCUMENTS		GENERAL		*CO COVER
	DETAIL # WALL SECTION	ADJ	ADJUSTABLE	ARCHITECTURAL
	SHEET #	ADTL	ADDITIONAL	AD2.1 ROOF DEMOLITION PLAN
	DETAIL # BUILDING SECTION	AFF	ABOVE FINISHED FLOOR	A2.1 ROOF PLAN
	PAGE #	AGG	AGGREGATE	A2.2 ROOF PLAN - AREAS A AND B1
	DETAIL # DETAIL SECTION	ALT	ALTERNATE	A2.3 ROOF PLAN - AREAS B2 AND C1
	SHEET #	AL	ALUMINUM	A2.4 ROOF PLAN - AREA C2
	DETAIL # INTERIOR ELEVATION	APPROX	APPROXIMATE(LY)	A3.1 EXTERIOR ELEVATIONS
	SHEET #	ASPH	ASPHALT	A3.2 EXTERIOR ELEVATIONS
	DETAIL # ROOM DESIGNATION	AUTO	AUTOMATIC	A3.3 EXTERIOR ELEVATIONS
	REVISION NOTE	B/O	BOTTOM OF	A3.4 EXTERIOR ELEVATIONS
	ROOM DESIGNATION	BD	BOARD	A3.5 EXTERIOR ELEVATIONS
	CASEWORK TYPE	BLDG	BUILDING	A7.1 ROOF DETAILS
	GLAZING TYPE	BLKG	BLOCKING	A7.2 ROOF DETAILS
	KEYNOTE	BOT	BOTTOM	
	DEMOLITION KEYNOTE	BRG	BEARING	
	CHANGE IN LEVEL	C/C	CENTERLINE	
	CEILING/ SOFFIT HEIGHT	CEM	CEMENT(ITIOUS)	
	DOOR NUMBER	CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	
	EXTERIOR ELEVATION	CFOI	CONTRACTOR FURNISHED, INSTALLED BY OTHERS	
	SHEET #	CJ	CONTROL JOINT	
	TOILET ACCESSORY	CLL	CONTRACT LIMIT LINE	
	WALL TYPE	CLG	CEILING	
	WALL TYPE	CLR	CLEAR	
	WALL TYPE	CMU	CONCRETE MASONRY UNIT	
	WALL TYPE	COL	COLUMN	
	WALL TYPE	CONC	CONCRETE	
	WALL TYPE	CONST	CONSTRUCTION	
	WALL TYPE	CONT	CONTINUOUS	
	WALL TYPE	CTR	CENTER(ED)	
	WALL TYPE	DBL	DOUBLE	
	WALL TYPE	DEG	DEGREE	
	WALL TYPE	DEM	DEMOLITION	
	WALL TYPE	DET/DTL	DETAIL	
	WALL TYPE	DIA	DIAMETER	
	WALL TYPE	DIM	DIMENSION	
	WALL TYPE	DN	DOWN	
	WALL TYPE	DS	DOWNSPOUT	
	WALL TYPE	DWG(S)	DRAWING(S)	
	WALL TYPE	E	EAST	
	WALL TYPE	EA	EACH	
	WALL TYPE	EC	ELECTRICAL CONTRACTOR	
	WALL TYPE	EIFS	EXTERIOR INSULATION FINISH SYSTEM	
	WALL TYPE	EJ	EXPANSION JOINT	
	WALL TYPE	EL	ELEVATION	
	WALL TYPE	ELEC	ELECTRIC(AL)	
	WALL TYPE	ELEV	ELEVATOR	
	WALL TYPE	EMER	EMERGENCY	
	WALL TYPE	EQU	EQUAL	
	WALL TYPE	EQUIP	EQUIPMENT	
	WALL TYPE	EW	EACH WAY	
	WALL TYPE	EX/EXIST	EXISTING	
	WALL TYPE	EXP	EXPANSION JOINT	
	WALL TYPE	EXT	EXTERIOR	
	WALL TYPE	FD	FLOOR DRAIN	
	WALL TYPE	FDN	FOUNDATION	
	WALL TYPE	FFE	FINISH FLOOR ELEVATION	
	WALL TYPE	FIN	FINISH	
	WALL TYPE	FLSHG	FLASHING	
	WALL TYPE	FLR	FLOOR	
	WALL TYPE	FRMG	FRAMING	
	WALL TYPE	FT	FOOT/FEET	
	WALL TYPE	FTG	FOOTING	
	WALL TYPE	FV	FIELD VERIFY	
	WALL TYPE	GA	GAUGE	
	WALL TYPE	GALV	GALVANIZED	
	WALL TYPE	GC	GENERAL CONTRACTOR	
	WALL TYPE	GEN	GENERAL	
	WALL TYPE	HOR	HORIZONTAL	
	WALL TYPE	HT	HEIGHT	
	WALL TYPE	HVAC	HEATING/VENTILATION/AIR CONDITIONING	
	WALL TYPE	ID	INSIDE DIAMETER	
	WALL TYPE	IN	INCH	
	WALL TYPE	INCL	INCLUDING	
	WALL TYPE	INSUL	INSULATION	
	WALL TYPE	JT	JOINT	
	WALL TYPE	L/S	LANDSCAPE	
	WALL TYPE	LB(S)	POUND(S)	
	WALL TYPE	LF	LINEAR FEET (FOOT)	
	WALL TYPE	LT	LIGHT	
	WALL TYPE	LTTR	LONG-TERM THERMAL RESISTANCE	
	WALL TYPE	MAS	MASONRY	
	WALL TYPE	MATL	MATERIAL	
	WALL TYPE	MAX	MAXIMUM	
	WALL TYPE	MECH	MECHANICAL	
	WALL TYPE	MFR	MANUFACTURER	
	WALL TYPE	MIN	MINIMUM	
	WALL TYPE	MISC	MISCELLANEOUS	
	WALL TYPE	MO	MASONRY OPENING	
	WALL TYPE	MTD	MOUNTED	
	WALL TYPE	MTL	METAL	
	WALL TYPE	N	NORTH	
	WALL TYPE	NA	NOT APPLICABLE	
	WALL TYPE	NIC	NOT IN CONTRACT	
	WALL TYPE	NOM	NOMINAL	
	WALL TYPE	NTS	NOT TO SCALE	
	WALL TYPE	OC	ON CENTER	
	WALL TYPE	OD	OUTSIDE DIAMETER	
	WALL TYPE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED	
	WALL TYPE	OFCR	OWNER FURNISHED, CONTRACTOR ROUGH-IN	
	WALL TYPE	OFOI	OWNER FURNISHED, INSTALLED BY OTHERS	
	WALL TYPE	O TO O	OUT TO OUT	
	WALL TYPE	OPNG	OPENING	
	WALL TYPE	OPP	OPPOSITE	
	WALL TYPE	OVHD	OVERHEAD	
	WALL TYPE	PERIM	PERIMETER	
	WALL TYPE	PFRM	PREFINISHED	
	WALL TYPE	PL	PLATE	
	WALL TYPE	PLYWD	PLYWOOD	
	WALL TYPE	PNT	PAINT	
	WALL TYPE	PNT	PAIR	
	WALL TYPE	PT	PRESSURE TREATED	
	WALL TYPE	PTD	PAINTED	
	WALL TYPE	PWR	POWER	
	WALL TYPE	RAD	RADIUS	
	WALL TYPE	REC	RECESSED	
	WALL TYPE	REIN	REINFORCED	
	WALL TYPE	REQ'D	REQUIRED	
	WALL TYPE	REV	REVISED (REVISION)	
	WALL TYPE	RD	ROOF DRAIN	
	WALL TYPE	RM	ROOM	
	WALL TYPE	RO	ROUGH OPENING	
	WALL TYPE	S	SOUTH	
	WALL TYPE	SB	SPLASH BLOCK	
	WALL TYPE	SF	SQUARE FEET (FOOT)	
	WALL TYPE	SIM	SIMILAR	
	WALL TYPE	SPEC	SPECIFICATIONS	
	WALL TYPE	SO	SQUARE	
	WALL TYPE	SS	STAINLESS STEEL	
	WALL TYPE	STD	STANDARD	
	WALL TYPE	STL	STEEL	
	WALL TYPE	STOR	STORAGE	
	WALL TYPE	STRUCT	STRUCTURAL	
	WALL TYPE	SUSP	SUSPENDED	
	WALL TYPE	SY	SQUARE YARD(S)	
	WALL TYPE	T/O	TOP OF	
	WALL TYPE	T&G	TONGUE AND GROOVE	
	WALL TYPE	TRTD	TREATED	
	WALL TYPE	TYP	TYPICAL	
	WALL TYPE	UNFIN	UNFINISHED	
	WALL TYPE	UNO	UNLESS NOTED OTHERWISE	
	WALL TYPE	VERT	VERTICAL	
	WALL TYPE	VIF	VERIFY IN FIELD	
	WALL TYPE	W/	WITH	
	WALL TYPE	W/O	WITHOUT	
	WALL TYPE	W	WEST	
	WALL TYPE	WD	WOOD	
	WALL TYPE	WH	WATER HEATER	
	WALL TYPE	WT	WEIGHT	

PROJECT NO.:0241298.00

DATE: 03/10/2025



NOTE:  
AREAS B1 AND B2: SEE ALTERNATES NO. 1 AND NO. 2 FOR SCOPE OF WORK



KEY PLAN

SCALE: NOT TO SCALE

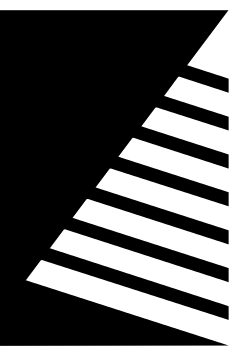
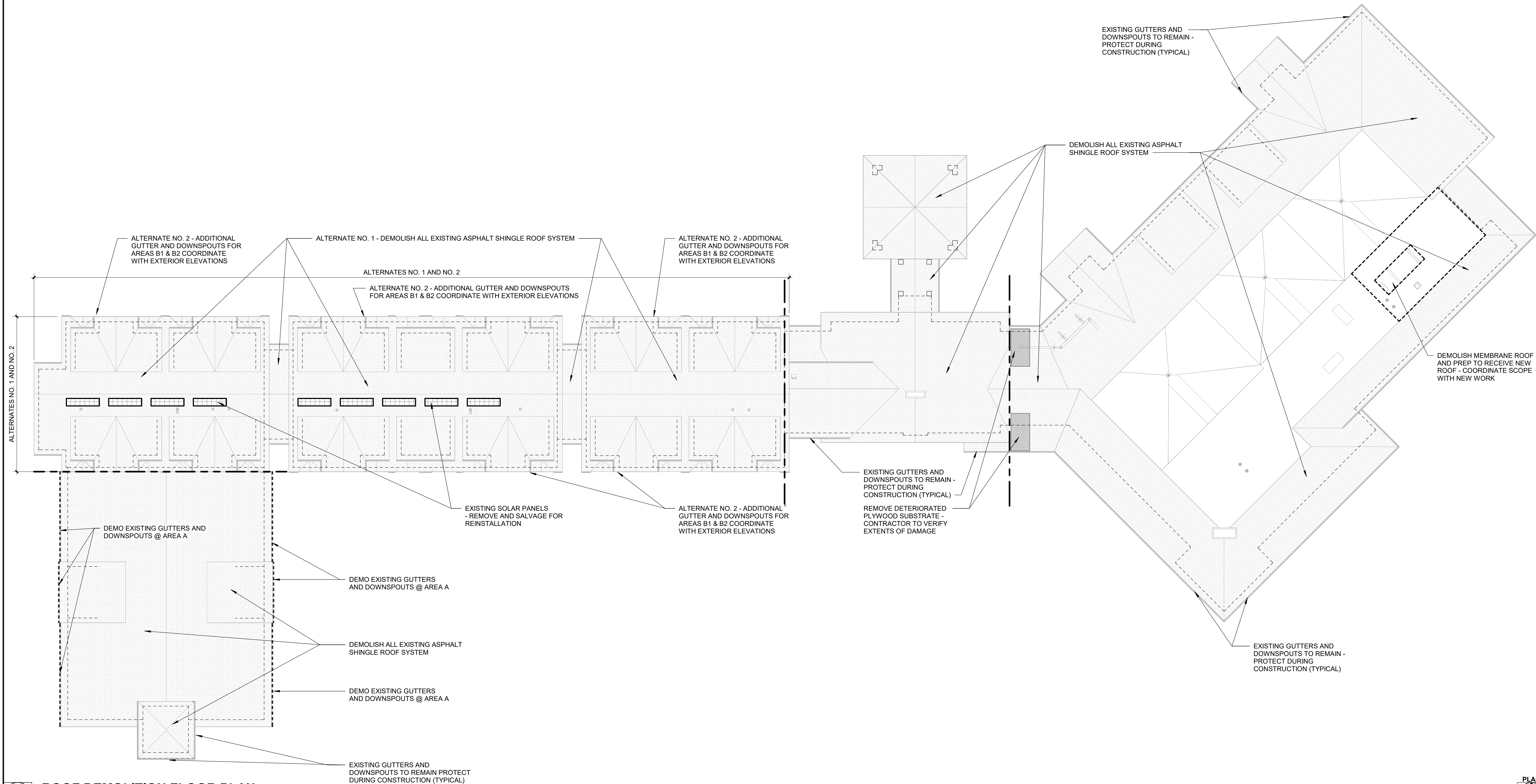


ALTERNATES

- A. **ALTERNATE NO 1:**  
ROOF REPLACEMENT OF AREAS B1 AND B2.
- A. **ALTERNATE NO 2:**  
ADDITIONAL GUTTERS AND DOWNSPOUTS ON AREAS B1 AND B2

DEMOLITION GENERAL NOTES

- A. EXISTING CONSTRUCTION SHOWN DASHED IS TO BE DEMOLISHED – COORDINATE WITH NEW CONSTRUCTION
- B. ALL ITEMS INDICATED TO BE DEMOLISHED SHALL BE REMOVED AS TO FULLY ALLOW FOR THE PROPER FURNISHING AND INSTALLATION OF ALL SCHEDULED NEW WORK. THIS SHALL INCLUDE DEMOLITION OF ADJACENT ITEMS, ACCESSORIES, AND APPURTENANCES AS NECESSARY.
- C. DEMOLITION DRAWINGS ILLUSTRATE MAJOR ITEMS TO BE REMOVED. CONTRACTOR SHALL COORDINATE THESE DRAWINGS WITH NEW WORK DRAWINGS AND SHALL BE RESPONSIBLE FOR OTHER ITEMS REQUIRED TO BE DEMOLISHED TO ACCOMMODATE NEW WORK.
- D. THE CONTRACTOR IS RESPONSIBLE FOR RETAINING AND RELOCATING ALL SALVAGE AS DESIGNATED BY THE OWNER'S REPRESENTATIVE.
- E. THE CONTRACTOR IS RESPONSIBLE FOR STORAGE AND PROTECTION OF ALL SALVAGE ITEMS.
- F. EXISTING ITEMS, EQUIPMENT, ROOF PENETRATIONS, ETC., TO REMAIN IN PLACE SHALL BE PROTECTED FROM DIRT AND DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- G. PROTECT ALL FINISHES TO REMAIN FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
- H. PRIOR TO DEMOLITION, ENSURE THE STABILITY OF ANY STRUCTURE TO REMAIN.
- I. REMOVAL OF EXISTING HVAC TO INCLUDE DUCTWORK, HANGERS, GRILLES, DIFFUSERS, ETC. SEE MECHANICAL DRAWINGS.
- J. REMOVAL OF EXISTING ELECTRICAL SYSTEMS TO INCLUDE CONDUIT, BOXES, WIRE, CABLE, SUPPORTS, WIRING DEVICES, SAFETY SWITCHES, FIRE ALARM EQUIPMENT, SPEAKERS, TELEPHONE OUTLETS AND LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS.
- K. HAZARDOUS MATERIALS INCLUDING, BUT NOT LIMITED TO; ASBESTOS AND/OR LEAD PAINT, IS ENCOUNTERED ON THE PROJECT SITE, THE OWNER SHALL ENGAGE A TESTING COMPANY TO IDENTIFY AREAS AND PROVIDE APPROPRIATE ABATEMENT. DEMOLITION CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH ABATEMENT CONTRACTOR.



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PROJECT:  
DAS PROJECT 9435.00

HONEY CREEK  
RESORT - LODGE  
ROOF REPLACEMENT

12633 RESORT DR,  
MORAVIA, IA 52571

DATE: 03/10/2025

DESIGNED: EXISTING

DRAWN: SD

REVIEWED: SH

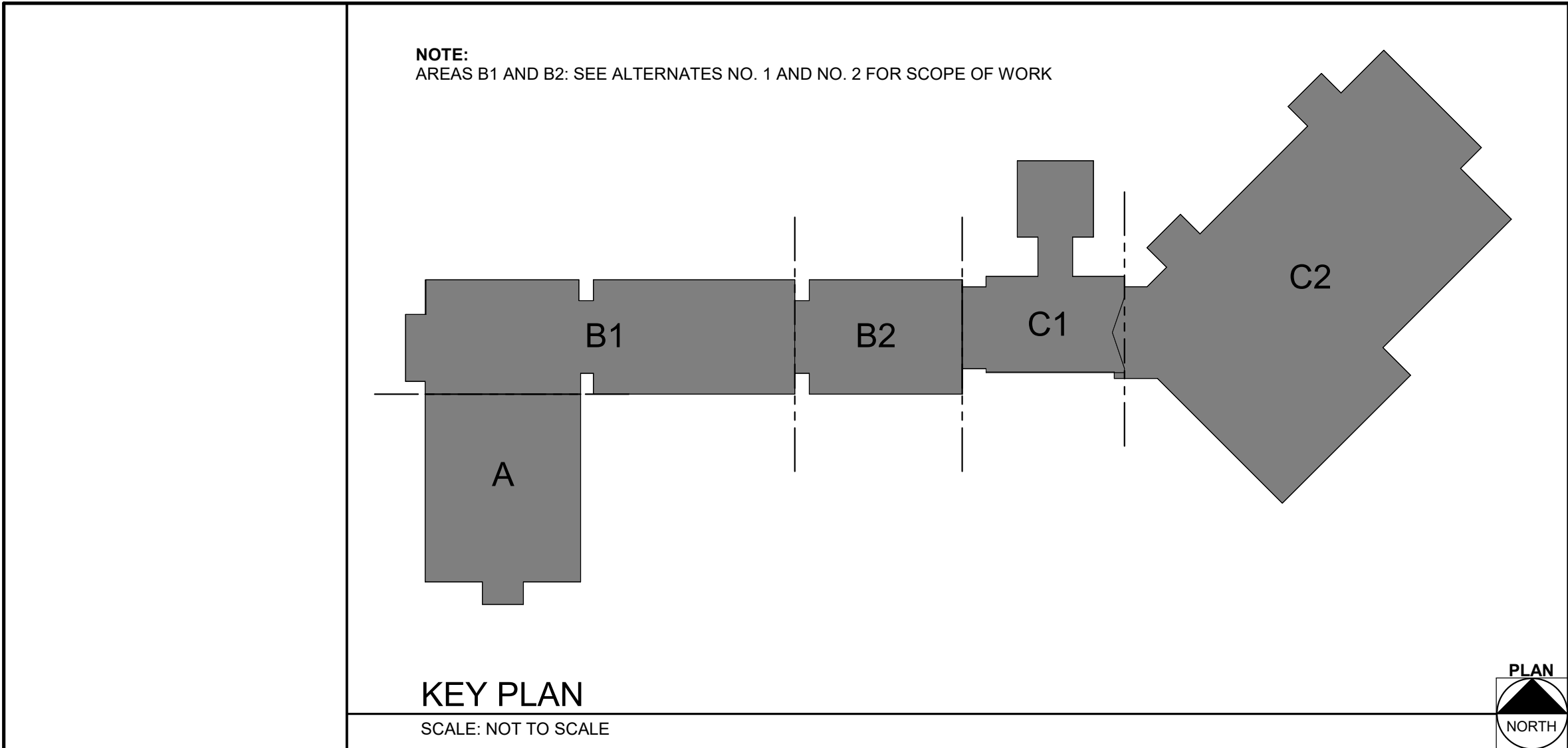
SHEET TITLE:  
ROOF DEMOLITION  
PLAN

SHEET NUMBER:

AD2.1

PROJECT NO.: 0241298.00





KEY PLAN  
SCALE: NOT TO SCALE



ROOF PLAN LEGEND

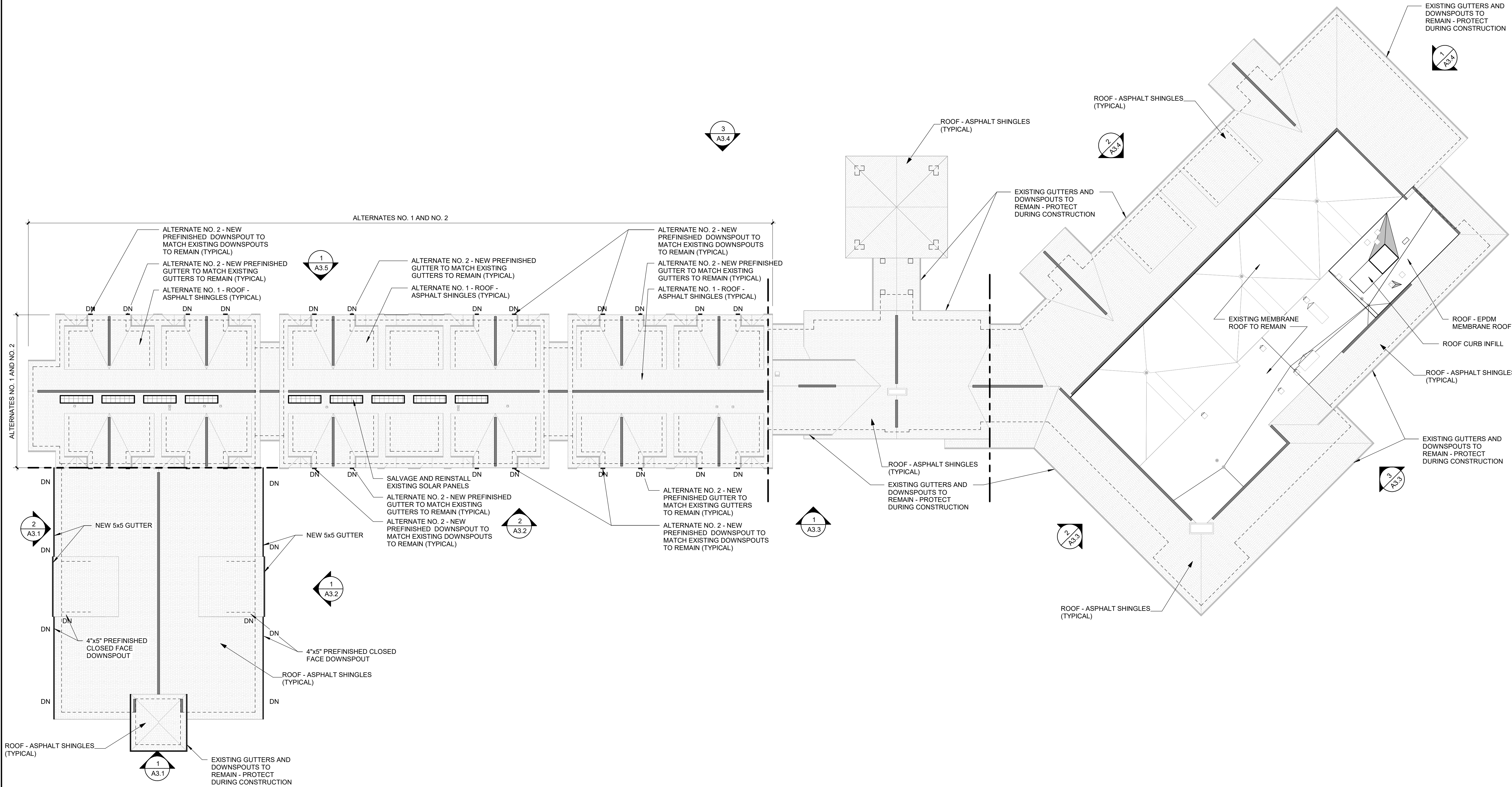
- CRICKETED AREA MINIMUM 1/2:12 SLOPE
- SLOPE: 1/4" INDICATES ROOF SLOPE/PITCH
- NEW RIDGE VENT
- WALL BELOW

ALTERNATES

- ALTERNATE NO 1:  
ROOF REPLACEMENT OF AREAS B1 AND B2.
- ALTERNATE NO 2:  
ADDITIONAL GUTTERS AND DOWNSPOUTS ON AREAS B1 AND B2

ROOF GENERAL NOTES

- ALL DIMENSIONS AND SLOPES SHALL BE FIELD VERIFIED.
- ALL ROOF SURFACES TO SLOPE AT A MINIMUM 1/4" PER FOOT UNLESS OTHERWISE NOTED OR SHOWN. PROVIDE TAPERED INSULATION WHERE INDICATED OR REQUIRED TO PROVIDE POSITIVE DRAINAGE TO ROOF DRAINS AT A MINIMUM 1/4" PER FOOT. TAPERED INSULATION LAYOUT AS SHOWN IS TO COMMUNICATE GENERAL DRAIN STRATEGY - ACTUAL AMOUNT MAY VARY.
- ALL ROOF AREAS MUST HAVE POSITIVE DRAINAGE UNLESS SHOWN OTHERWISE. NO PONDING OF WATER OVER 1/8" IN DEPTH WILL BE ACCEPTABLE AT ROOF DRAINS.
- MAINTAIN ALL EXISTING ROOF SLOPES AND ROOF DRAIN LOCATIONS. NEW COVERBOARD SHALL BE INSTALLED AS NOT TO DISRUPT EXISTING ROOF SLOPES OR CRICKETS.
- ALL ROOF MOUNTED MECH UNITS SHALL REMAIN IN PLACE UNLESS NOTED OTHERWISE.
- LOCATE AND PROTECT ALL EXISTING ROOF MOUNTED PIPING, GAS LINES, AND ELECTRICAL CONDUIT.
- CONTRACTOR SHALL VISUALLY INSPECT ALL EXISTING SUBSTRATE ONCE EXISTING SHINGLES/MEMBRANE ARE REMOVED, AND REPORT ANY EVIDENCE OF WATER OR LEAKS.
- INCLUDE REMOVAL AND REPLACEMENT OF 3,200SF OF SHEATHING IN QUOTE FOR ANY POTENTIAL PLYWOOD SHEATHING REPAIR THAT IS REQUIRED FOR NEW CONSTRUCTION. SEE SPECS AND BID FOR FOR MORE INFORMATION.
- PROVIDE UNIT PRICE PER SHEET FOR POTENTIAL PLYWOOD SHEATHING REPAIR BEYOND ALLOWANCE.
- COORDINATE ALL ROOF PENETRATION REQUIREMENTS, INCLUDING THOSE THAT MAY NOT BE SHOWN, WITH ROOFING CONTRACTOR, AND MECHANICAL/ELECTRICAL DRAWINGS.
- ROOF CONTRACTOR SHALL PROVIDE ALL TEMPORARY WEATHER PROTECTION NECESSARY TO MAINTAIN A WATERTIGHT BUILDING INTERIOR THROUGHOUT CONSTRUCTION.
- ALL ROOF PENETRATIONS TO BE IN COMPLIANCE WITH MANUFACTURER AND NRCA REQUIREMENTS.
- PROVIDE NEW FLASHING FOR ALL VENT PIPES AND ROOF PENETRATIONS.
- ROOFING COMPONENTS MAY VARY DEPENDING ON ROOFING MANUFACTURER. CONTRACTOR SHALL INSTALL A COMPLETE CODE COMPLIANT AND WARRANTED ROOFING SYSTEM BASED ON THE SPECIFIED ROOFING MANUFACTURERS WRITTEN INSTRUCTIONS AND INSTALLATION GUIDELINES.
- PROVIDE MINIMUM 15'-0" CLEARANCE FROM ANY INTAKE FOR ALL EQUIPMENT AND VENT STACKS. ALERT DESIGN PROFESSIONAL OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- ONCE ROOF WORK BEGINS, THE CONTRACTOR IS ACCEPTING ALL CONDITIONS AND WILL BE RESPONSIBLE FOR ALL DEMOLITION AND NEW WORK REQUIRED TO PROVIDE A WATERTIGHT ROOF SYSTEM.
- EXISTING GUTTERS AND DOWNSPOUTS SHALL REMAIN EXCEPT WHERE INDICATED. REMOVE, SALVAGE, AND REINSTALL AS REQUIRED FOR NEW WORK.
- THE CONTRACTOR SHALL ENSURE THAT UPON COMPLETION OF ROOF WORK, ALL GUTTERS, DOWNSPOUTS AND ROOF DRAINS ARE CLEAN AND CLEAR OF DEBRIS TO PROVIDE AN UNOBSTRUCTED, FREE FLOW OF WATER.
- EXISTING SLOPED ROOF SYSTEM AT AQUATIC CENTER IS A VENTILATED INSULATION SYSTEM. IF SHEATHING REPLACEMENT IS REQUIRED THE NEW SHEATHING AND ASSOCIATED BLOCKING SHALL MATCH THE PROPERTIES OF THE EXISTING SYSTEM.
- REPLACEMENT OF INSULATED VENTILATION BLOCKING SPACING SHALL MEET PRODUCT REQUIREMENTS AND NEGATE SAG/SOFT SPOTS.



1 ROOF PLAN  
SCALE: 3/64" = 1'-0"



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RESORT - LODGE  
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12633 RESORT DR, MORAVIA, IA 52571	
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DRAWN:	SD
REVIEWED:	SH

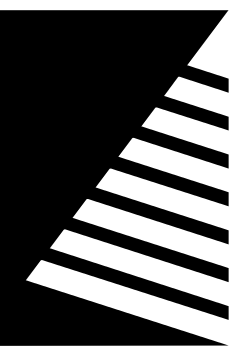
SHEET TITLE:  
ROOF PLAN

SHEET NUMBER:

A2.1

PROJECT NO.: 0241298.00





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## HONEY CREEK RESORT - LODGE ROOF REPLACEMENT

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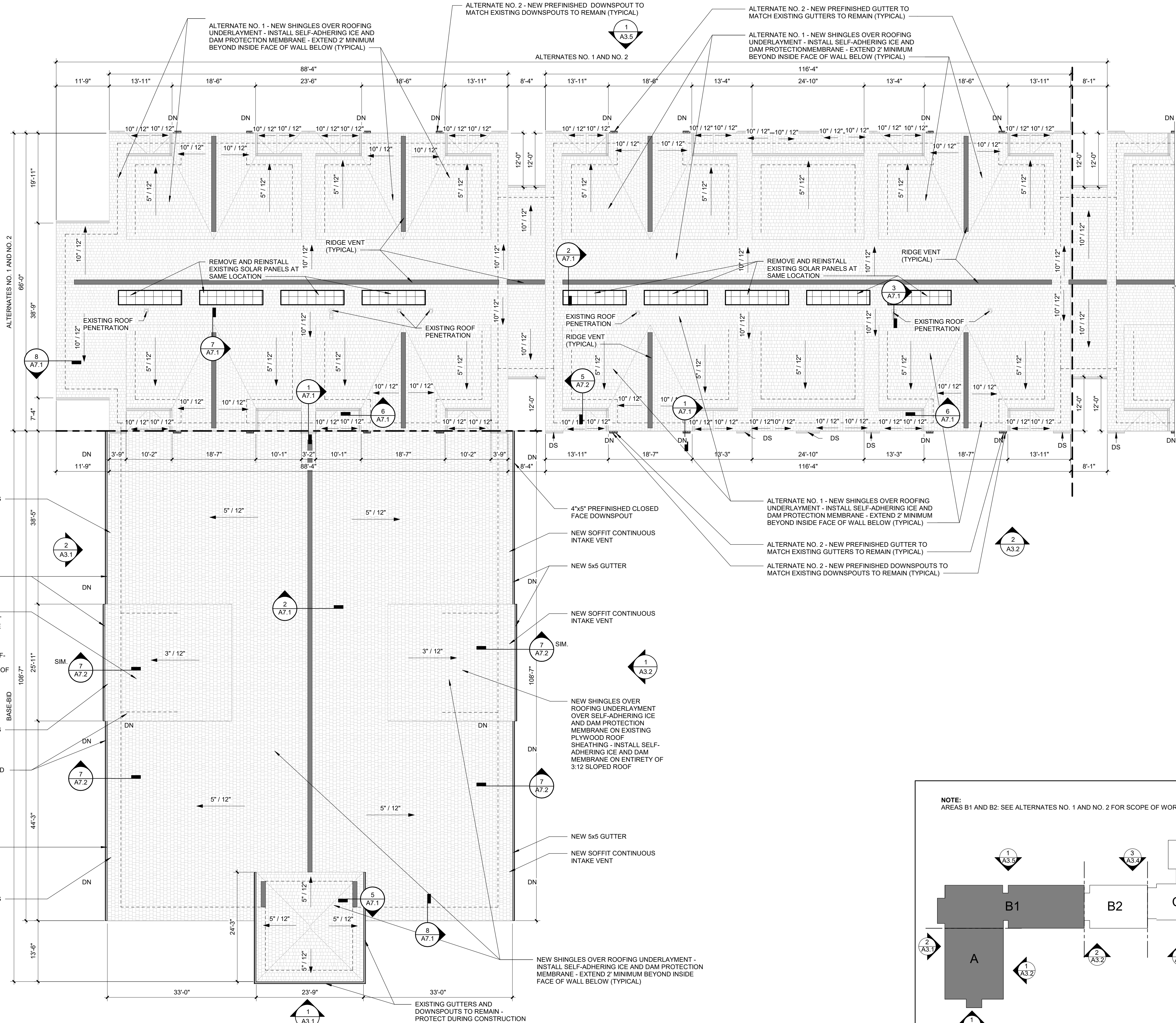
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### ROOF PLAN - AREAS A AND B1

SHEET NUMBER

# A2.2

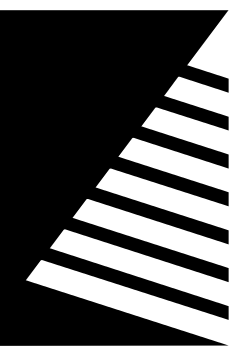
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1 ROOF PLAN - AREA A AND AREA B1 (ALTERNATES NO. 1 AND NO. 2)  
SCALE: 3/32" = 1'-0"

PLAN KEY PLAN  
SCALE: NOT TO SCALE





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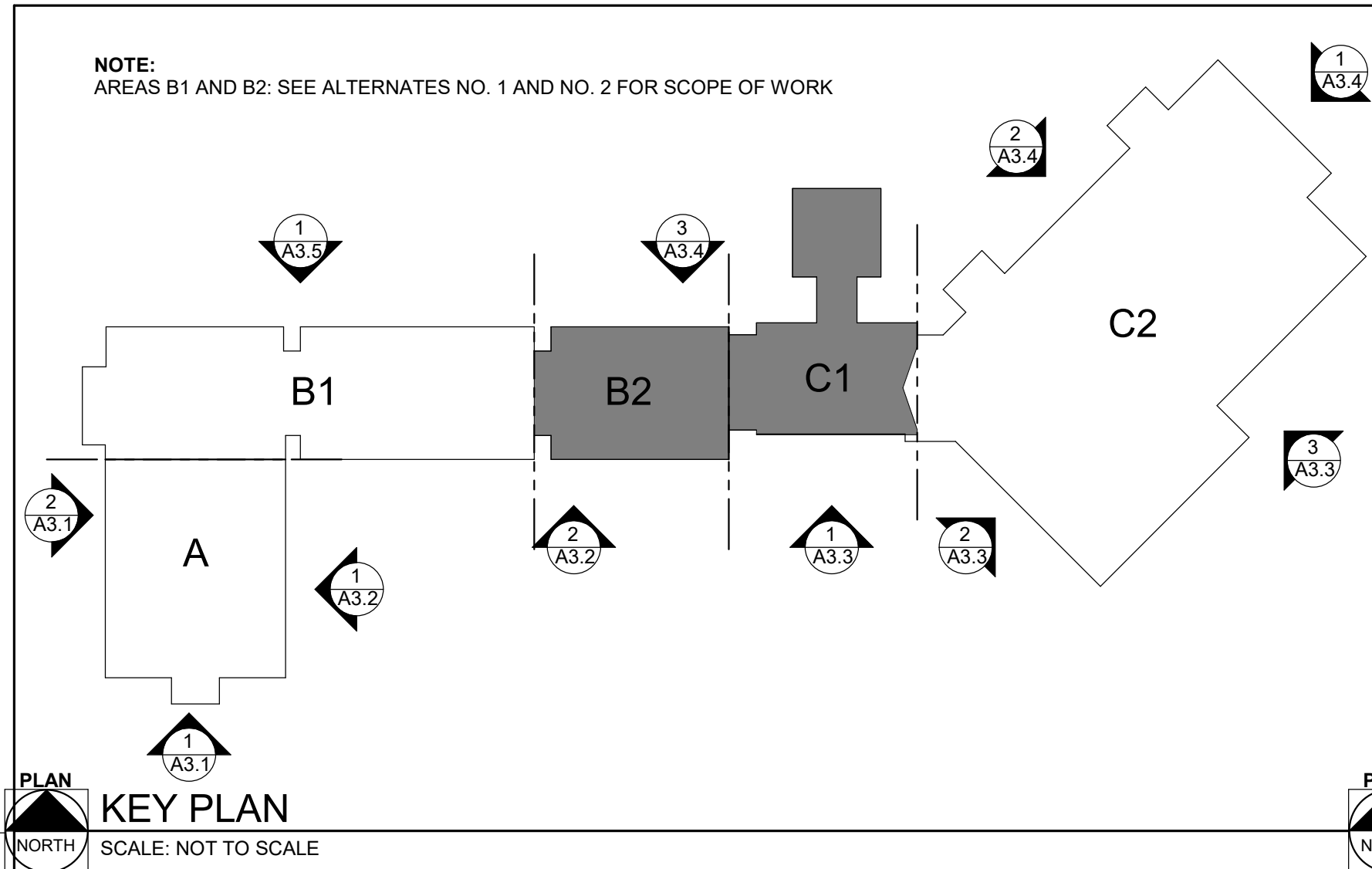
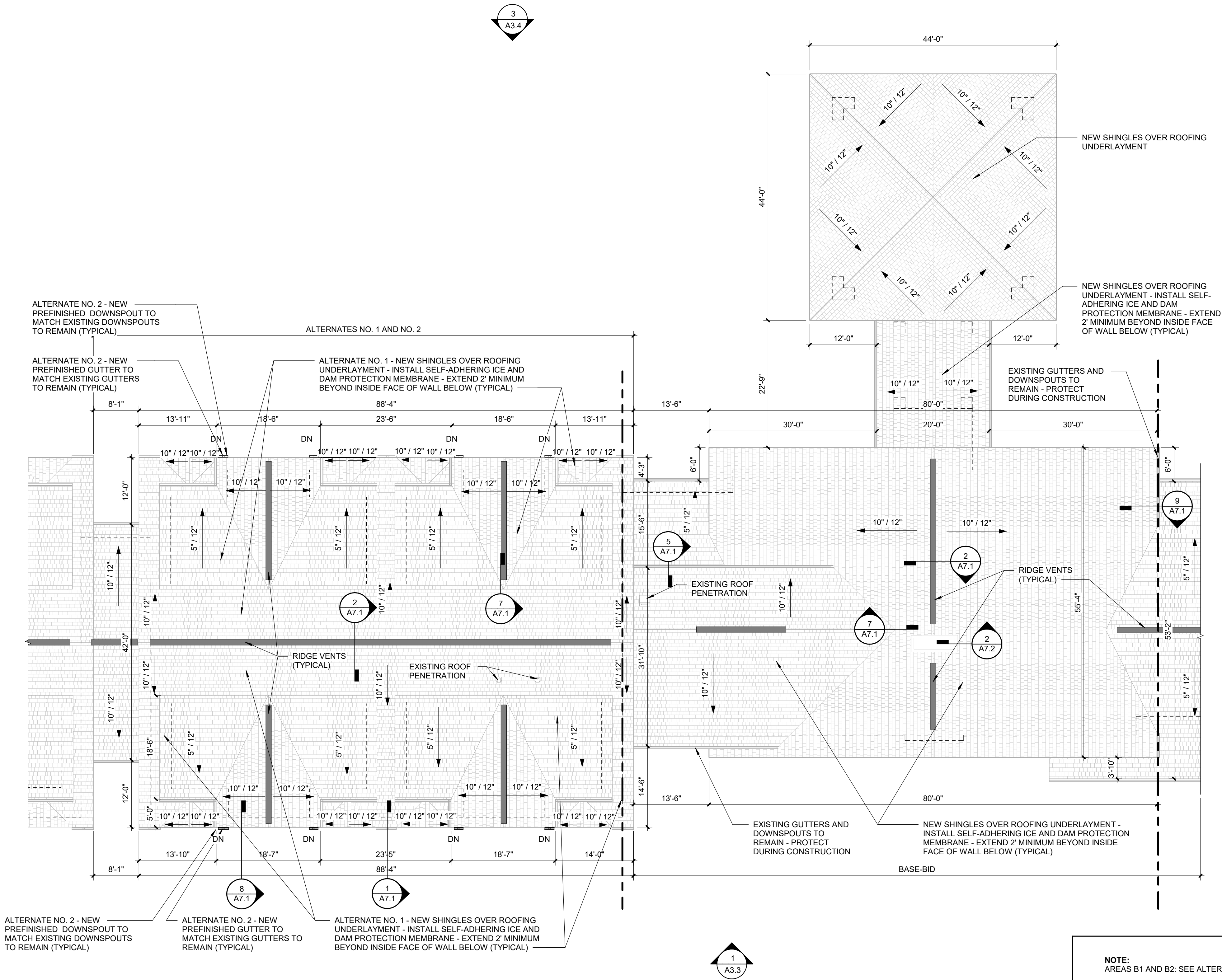
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ROOF PLAN - AREAS  
B2 AND C1

SHEET NUMBER:

A2.3

PROJECT NO.: 0241298.00

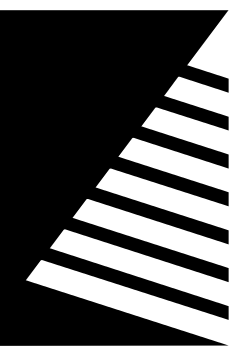


1 ROOF PLAN - AREA B2 (ALTERNATES NO. 1 AND NO. 2) AND AREA C1  
SCALE: 3/32" = 1'-0"

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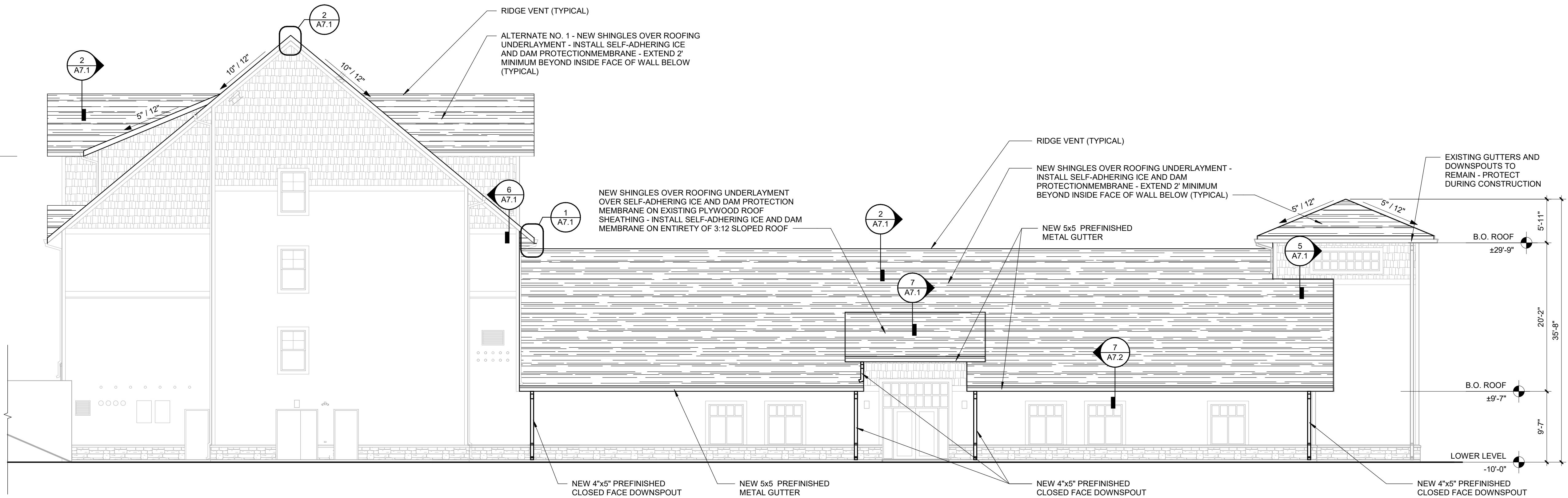


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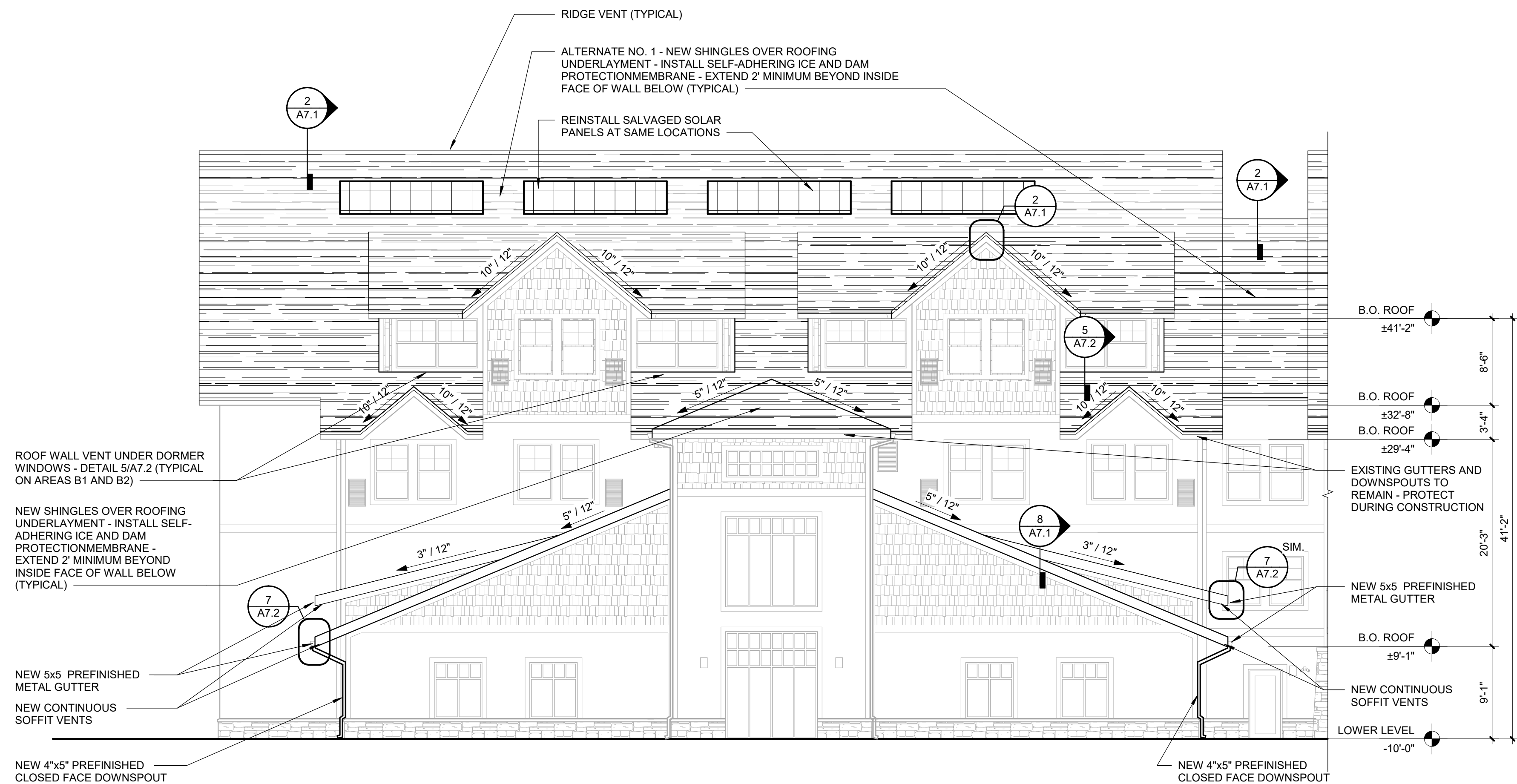
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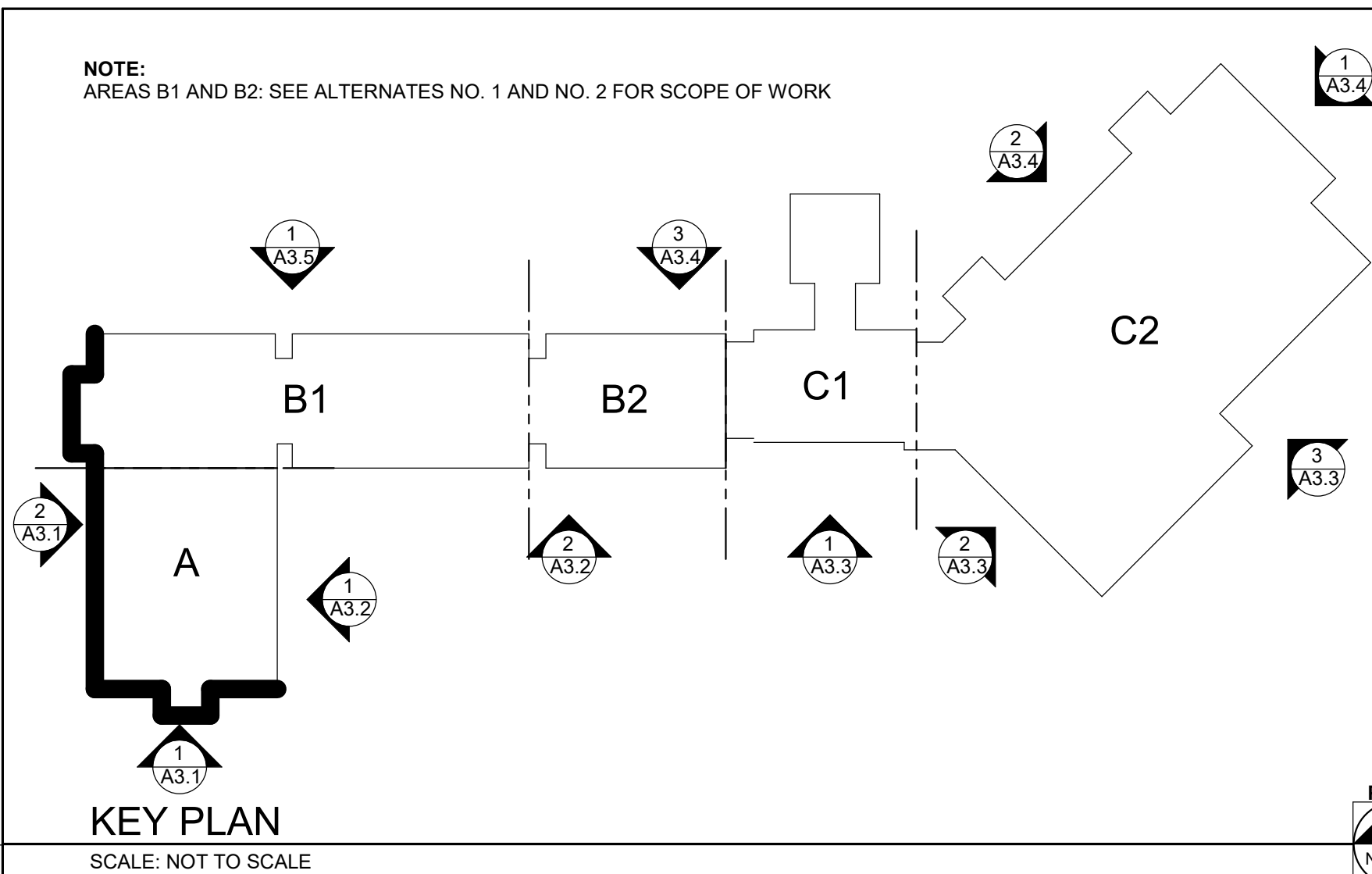
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2 AREA - A AND B1 WEST ELEVATION  
SCALE: 1/8" = 1'-0"



1 AREA - A AND B1 SOUTH ELEVATION  
SCALE: 1/8" = 1'-0"



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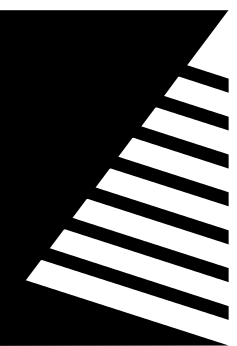
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EXTERIOR  
ELEVATIONS

SHEET NUMBER

A3.1

PROJECT NO.: 0241298.00



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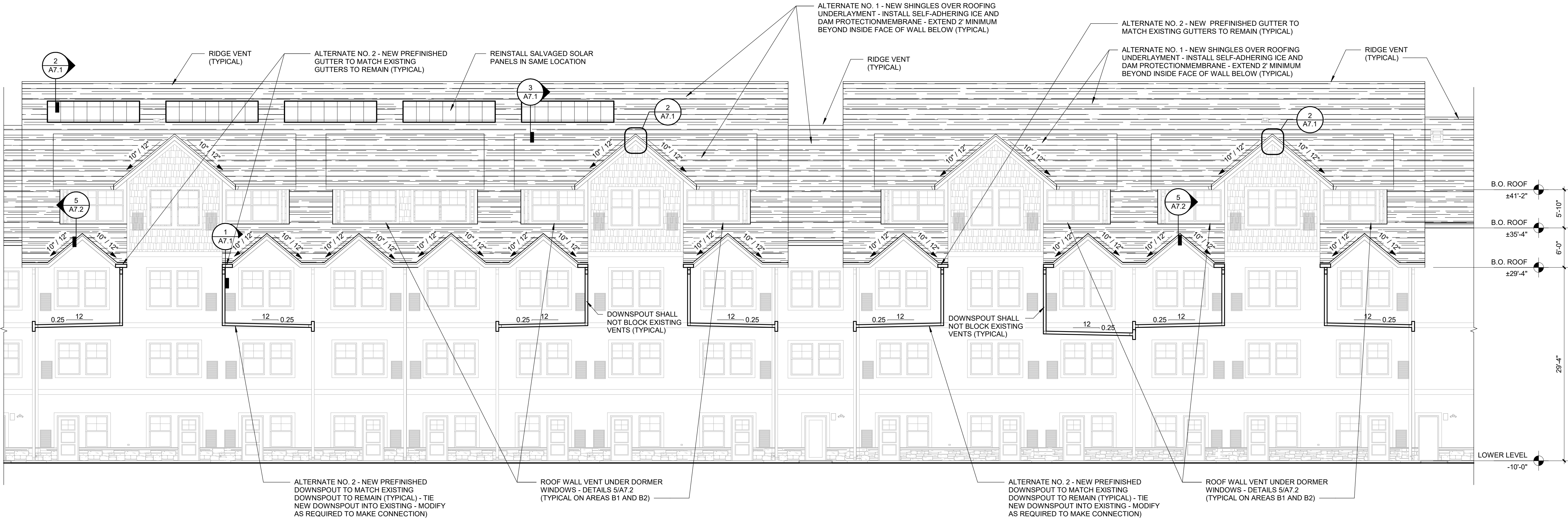
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SHEET TITLE:  
EXTERIOR  
ELEVATIONS

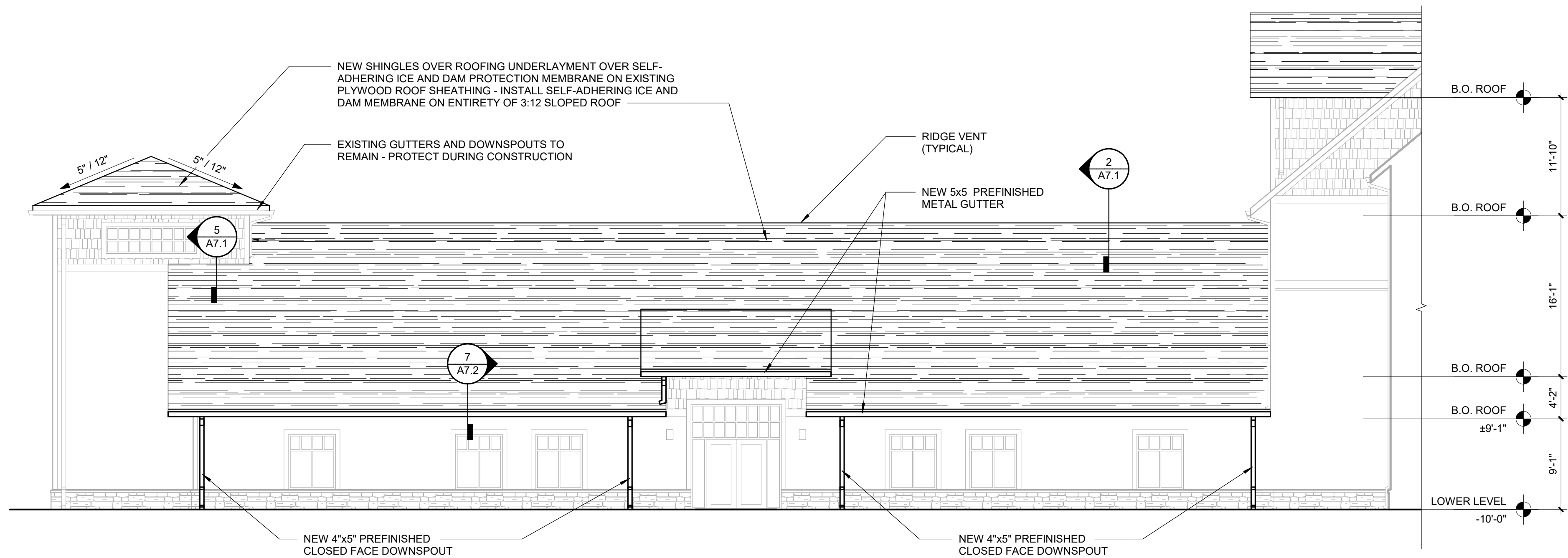
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A3.2

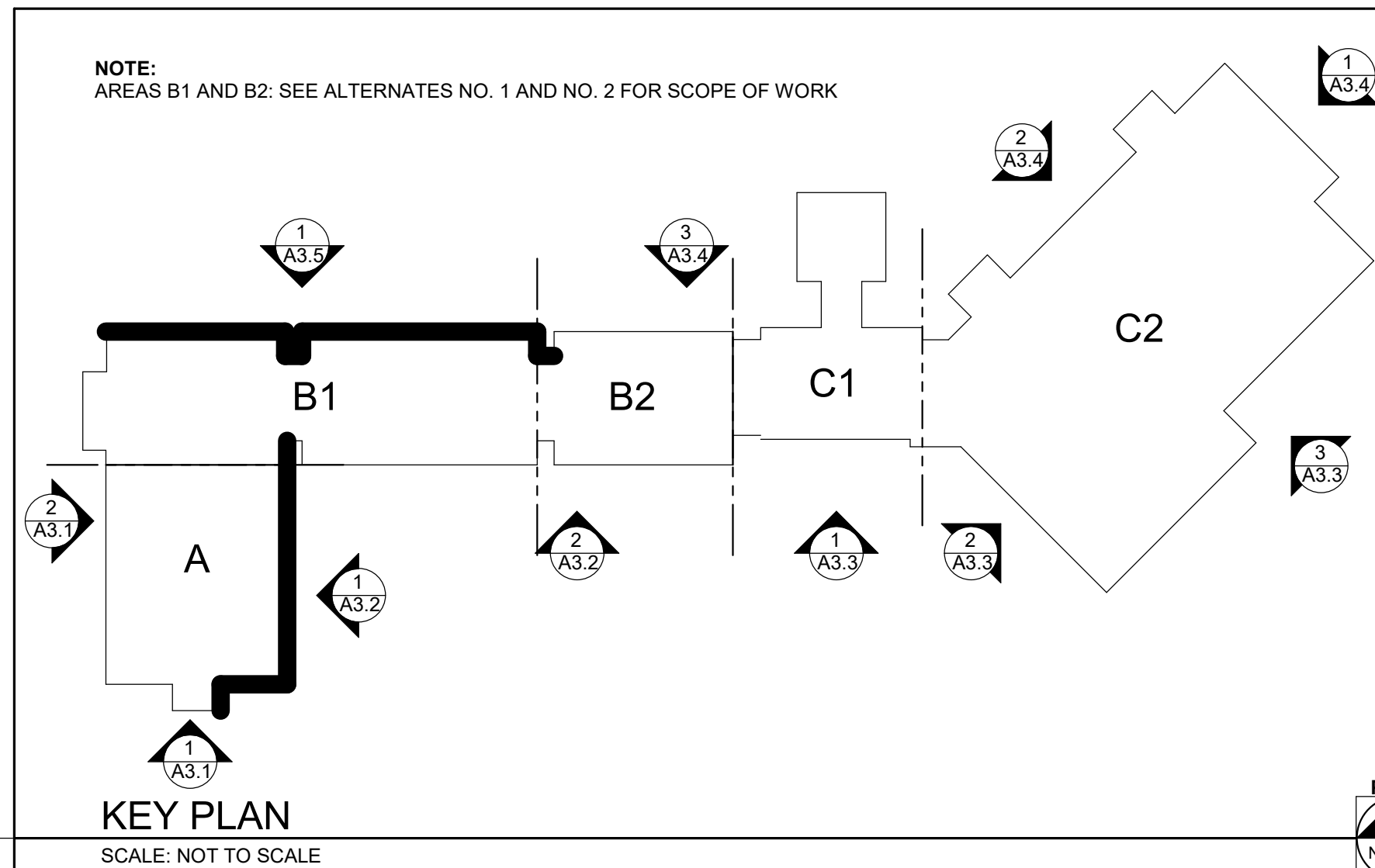
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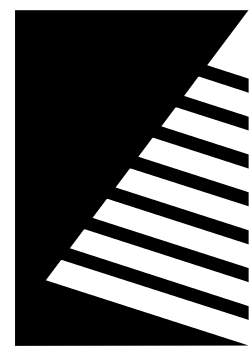
2 AREA - B1 AND B2 SOUTH ELEVATION (ALTERNATES NO. 1 AND NO. 2)  
SCALE: 1/8" = 1'-0"



1 AREA - A EAST ELEVATION  
SCALE: 1/8" = 1'-0"







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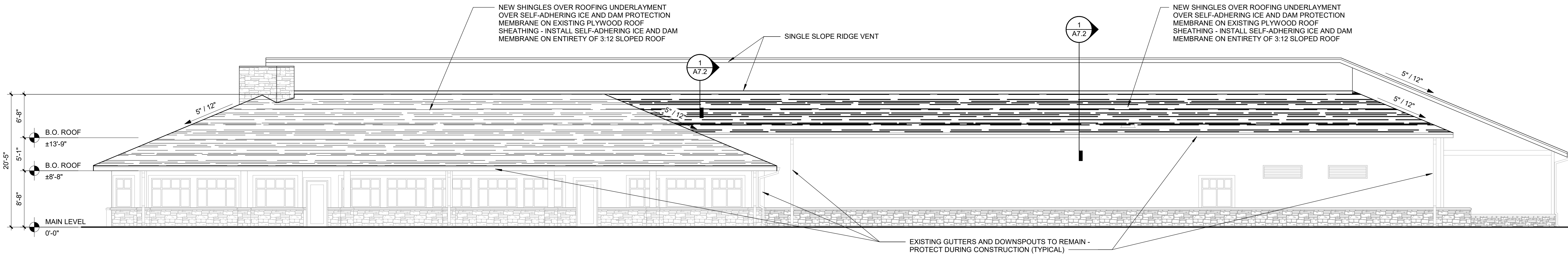
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DESIGNED: EXISTING  
DRAWN: SD  
REVIEWED: SH

SHEET TITLE:  
EXTERIOR  
ELEVATIONS

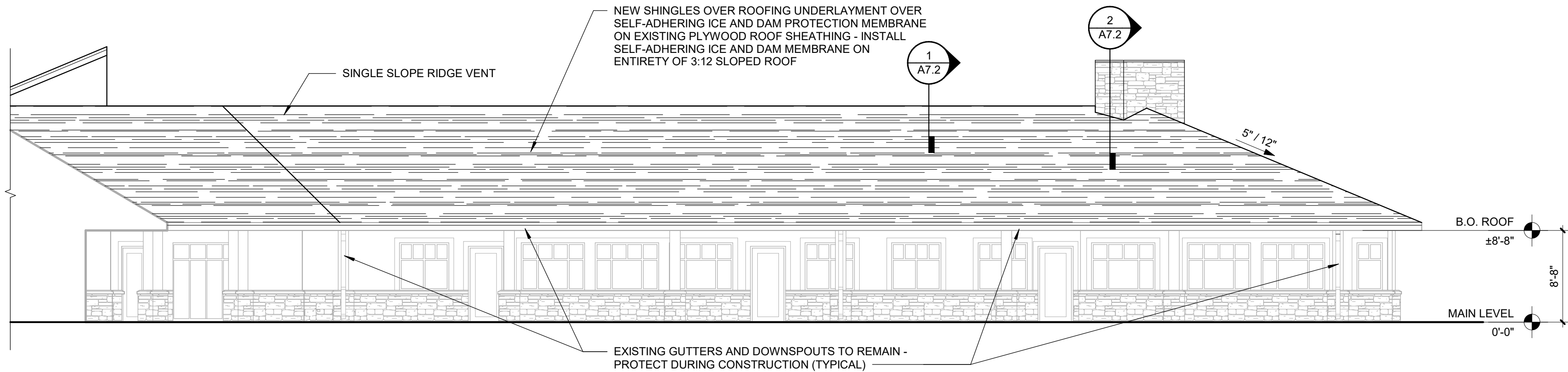
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A3.3

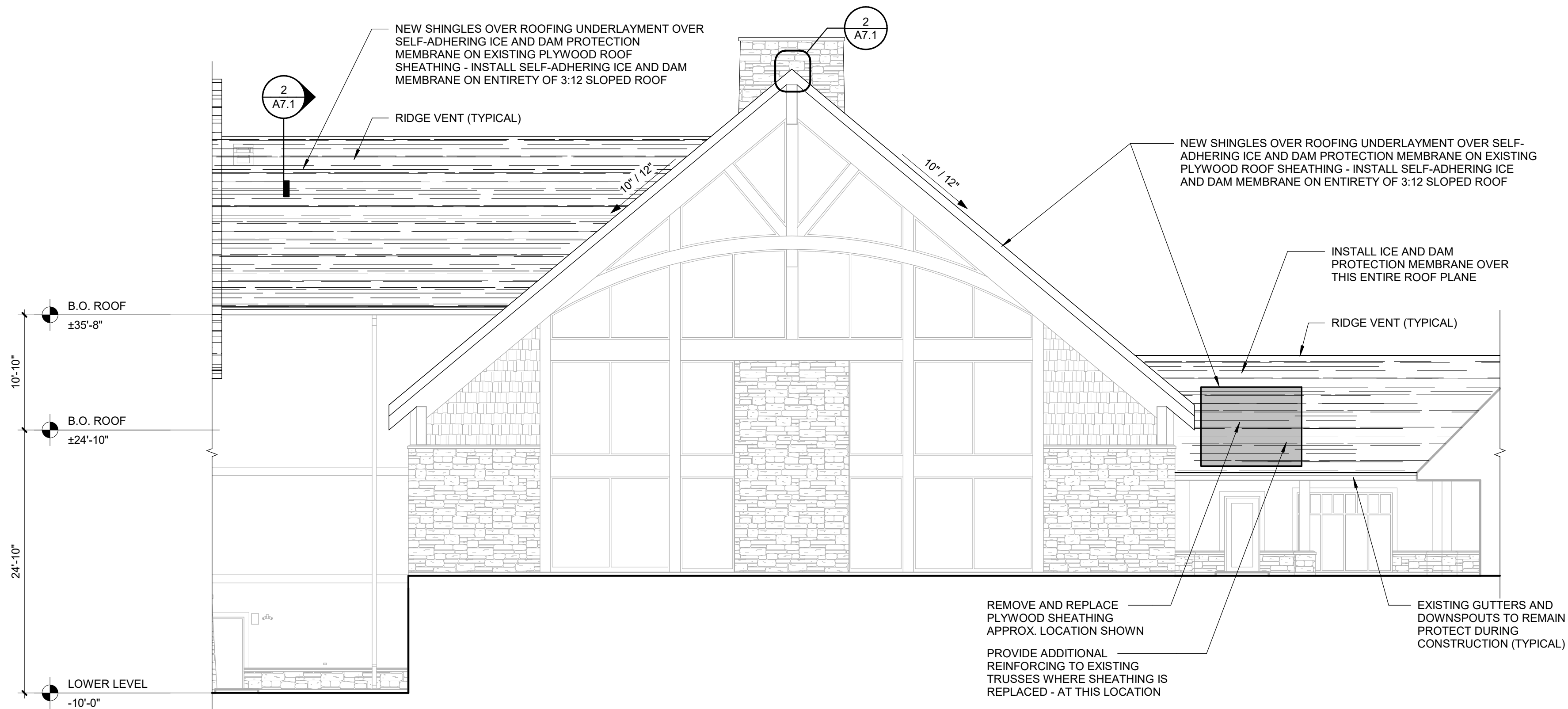
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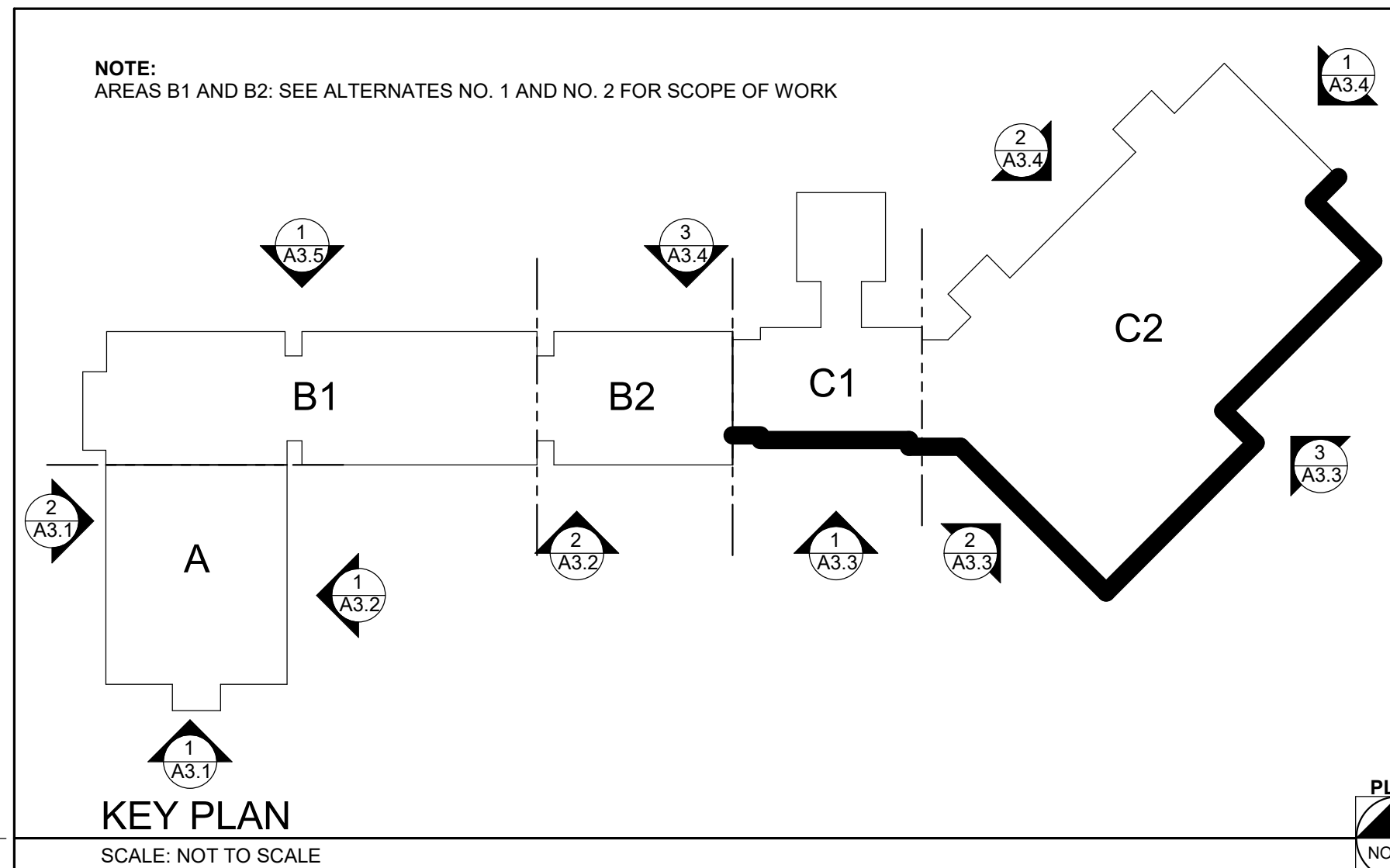
3 AREA - C2 SOUTH EAST ELEVATION  
SCALE: 1/8" = 1'-0"



2 AREA - C2 SOUTH WEST ELEVATION  
SCALE: 1/8" = 1'-0"

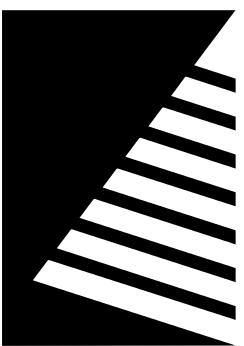


1 AREA - C1 SOUTH ELEVATION  
SCALE: 1/8" = 1'-0"







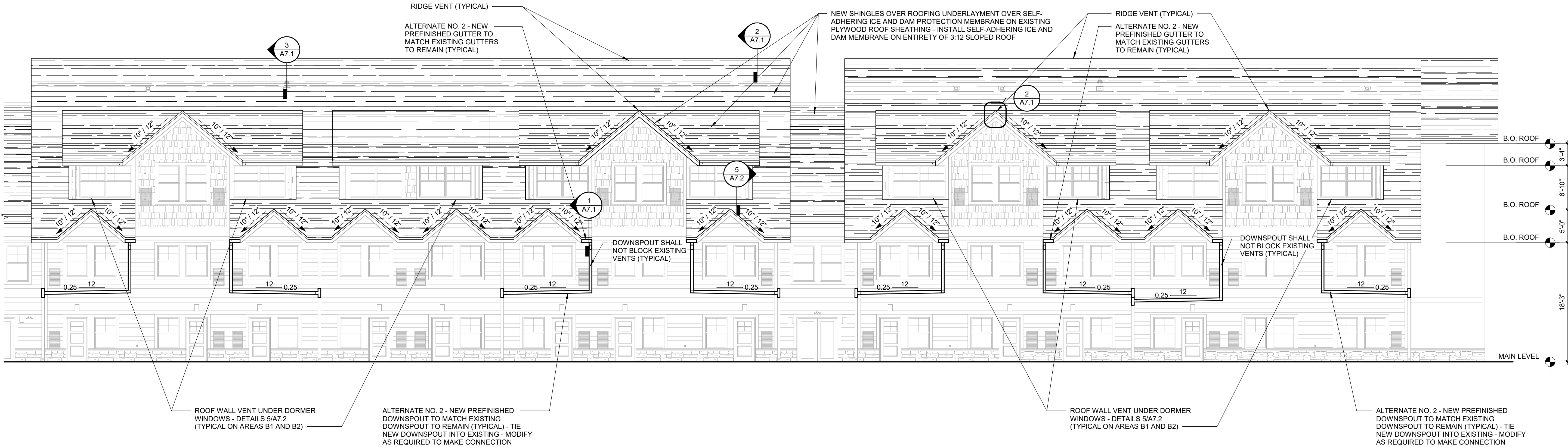


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1 AREA - B1 NORTH ELEVATION (ALTERNATE NO. 1 AND NO. 2)  
SCALE: 1/8" = 1'-0"

100% CD SET

PROJECT:  
DAS PROJECT 9435.00

HONEY CREEK  
RESORT - LODGE  
ROOF REPLACEMENT

12633 RESORT DR,  
MORAVIA, IA 52571

DATE: 03/10/2025  
DESIGNED: EXISTING  
DRAWN: SD  
REVIEWED: SH

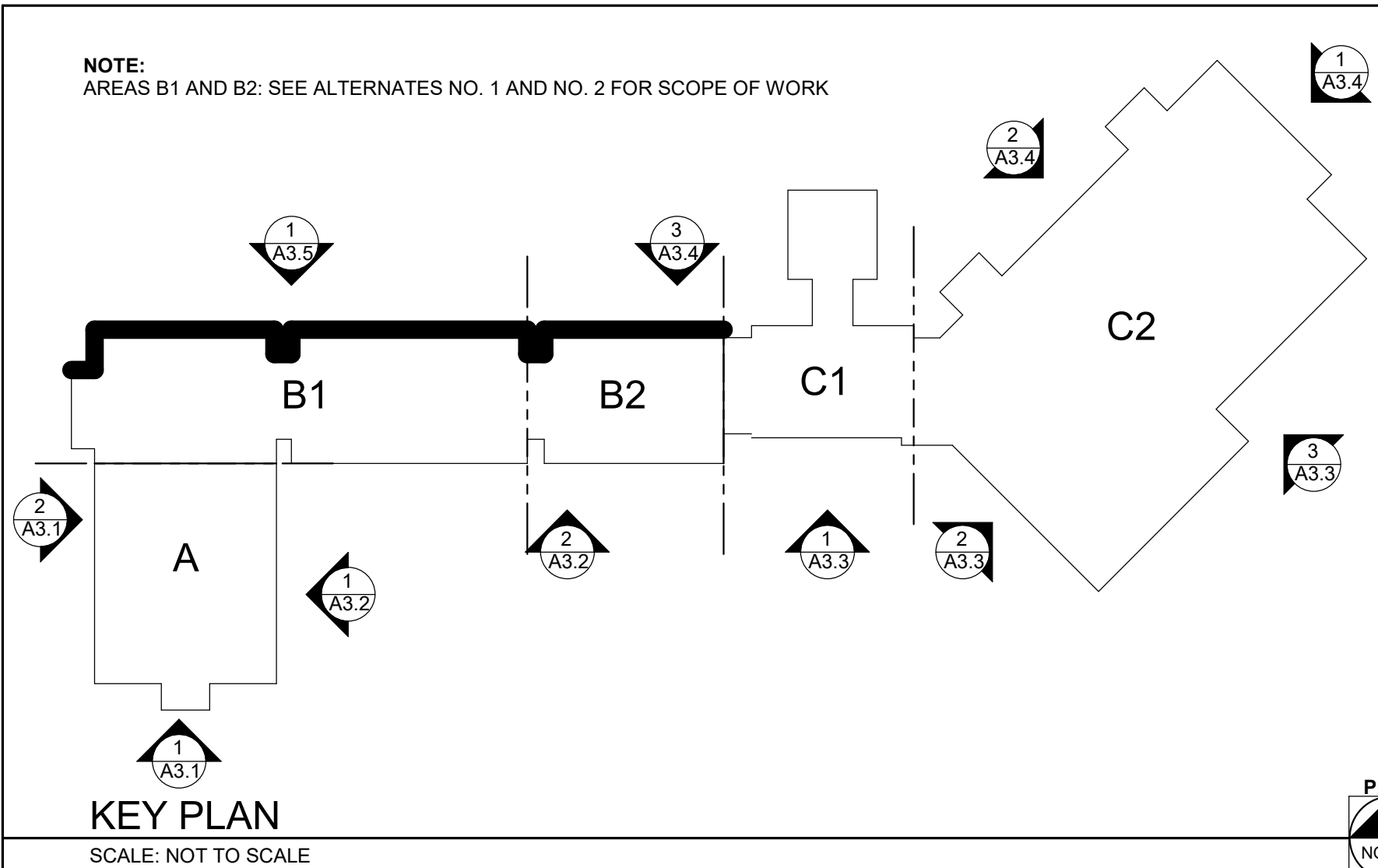
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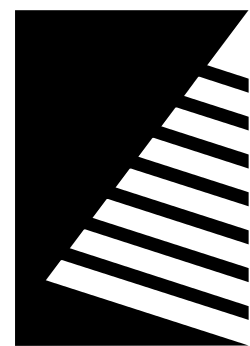
EXTERIOR  
ELEVATIONS

SHEET NUMBER:

A3.5

PROJECT NO.: 0241298.00





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RESORT - LODGE  
ROOF REPLACEMENT

12633 RESORT DR,  
MORAVIA, IA 52571

DATE: 03/10/2025

DESIGNED: SD

DRAWN: SD

REVIEWED: SH

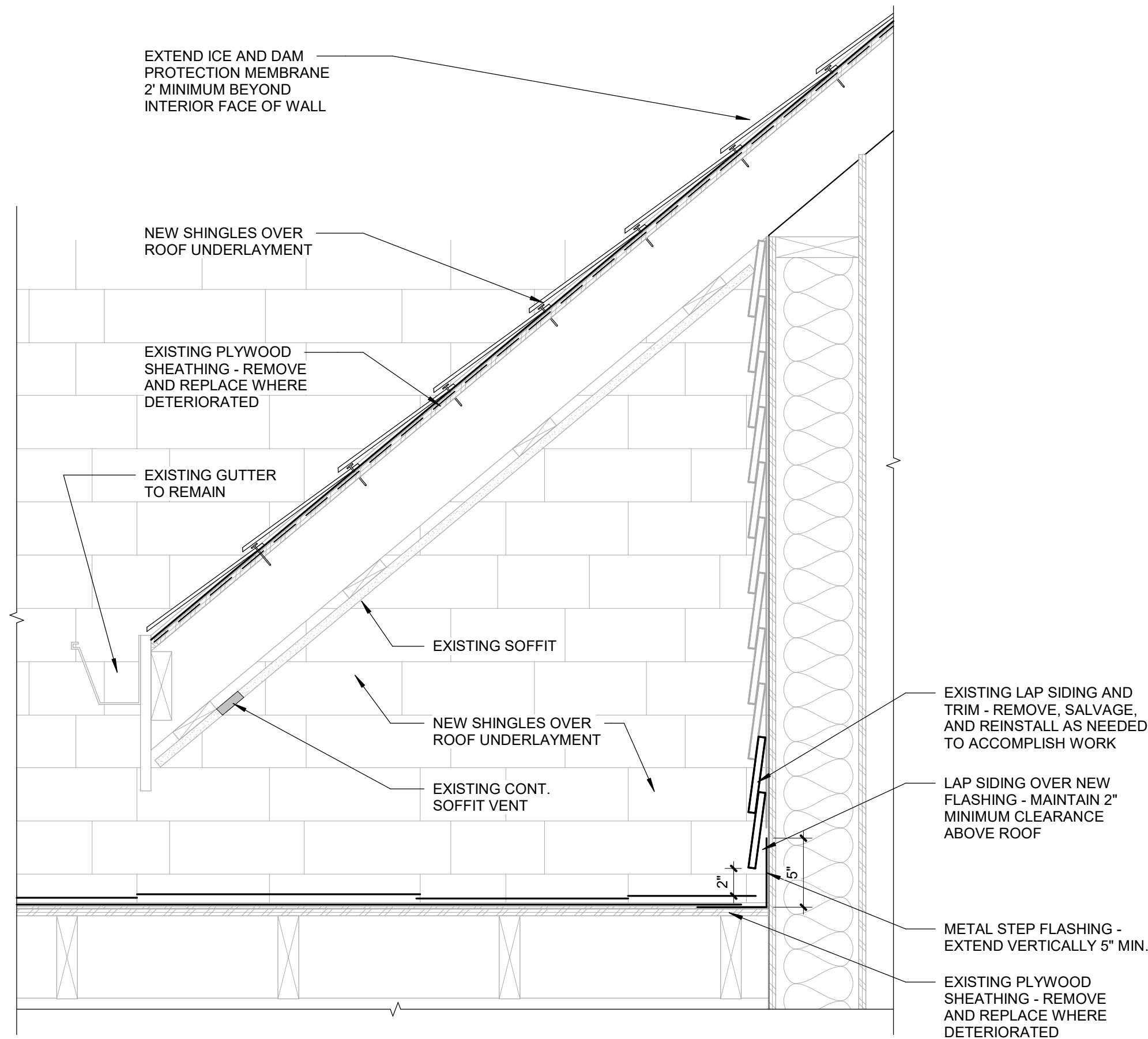
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ROOF DETAILS

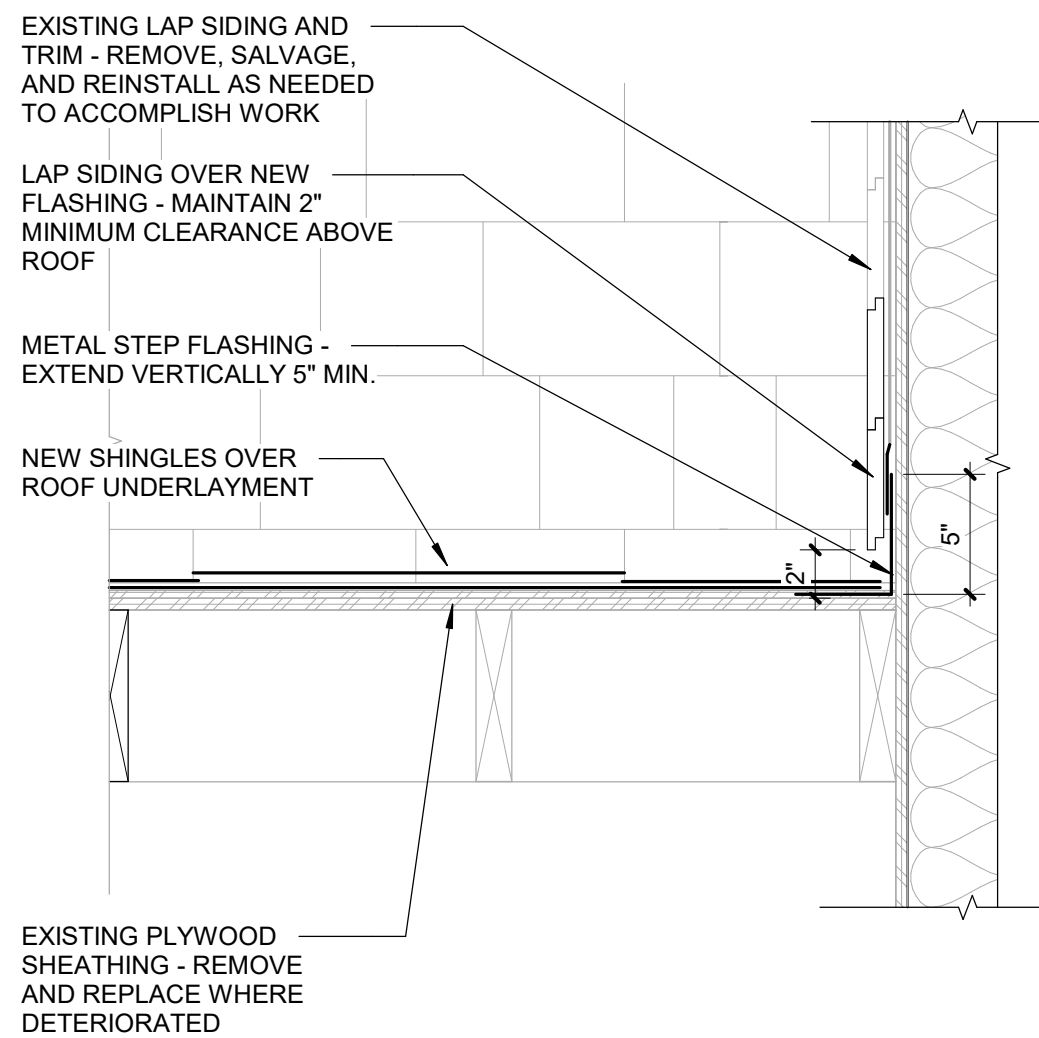
SHEET NUMBER:

A7.1

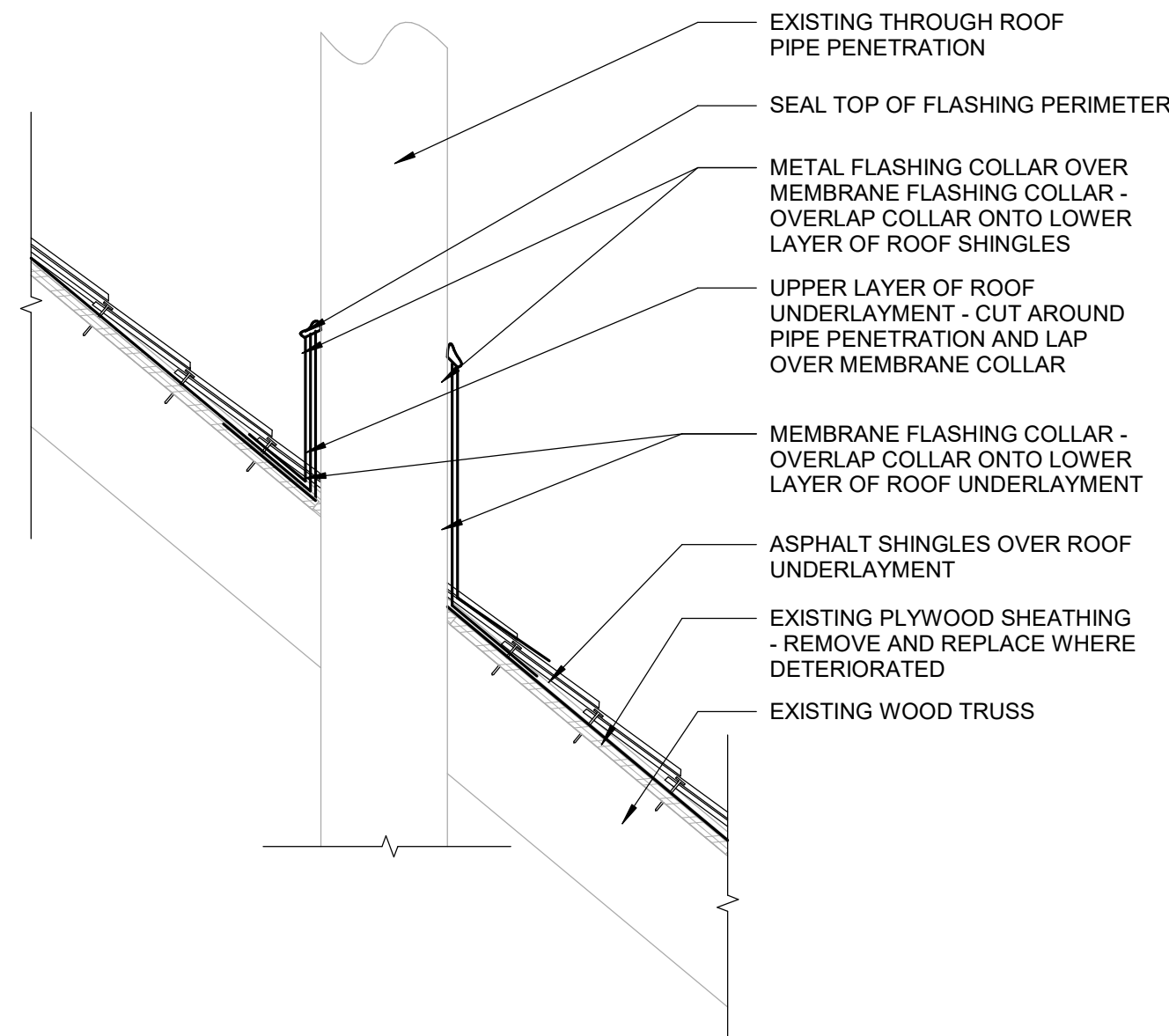
PROJECT NO.: 0241298.00



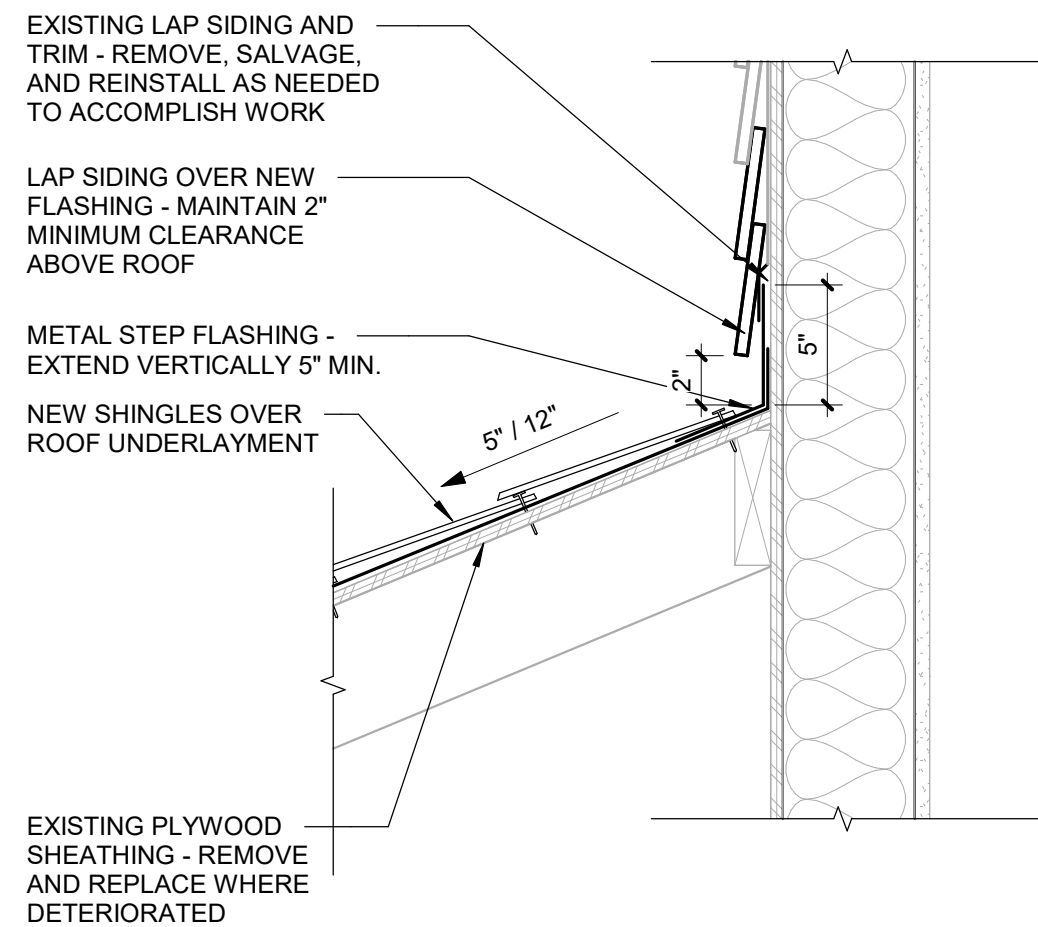
9 ROOF DETAIL AT OVERHANG  
SCALE: 1 1/2" = 1'-0"



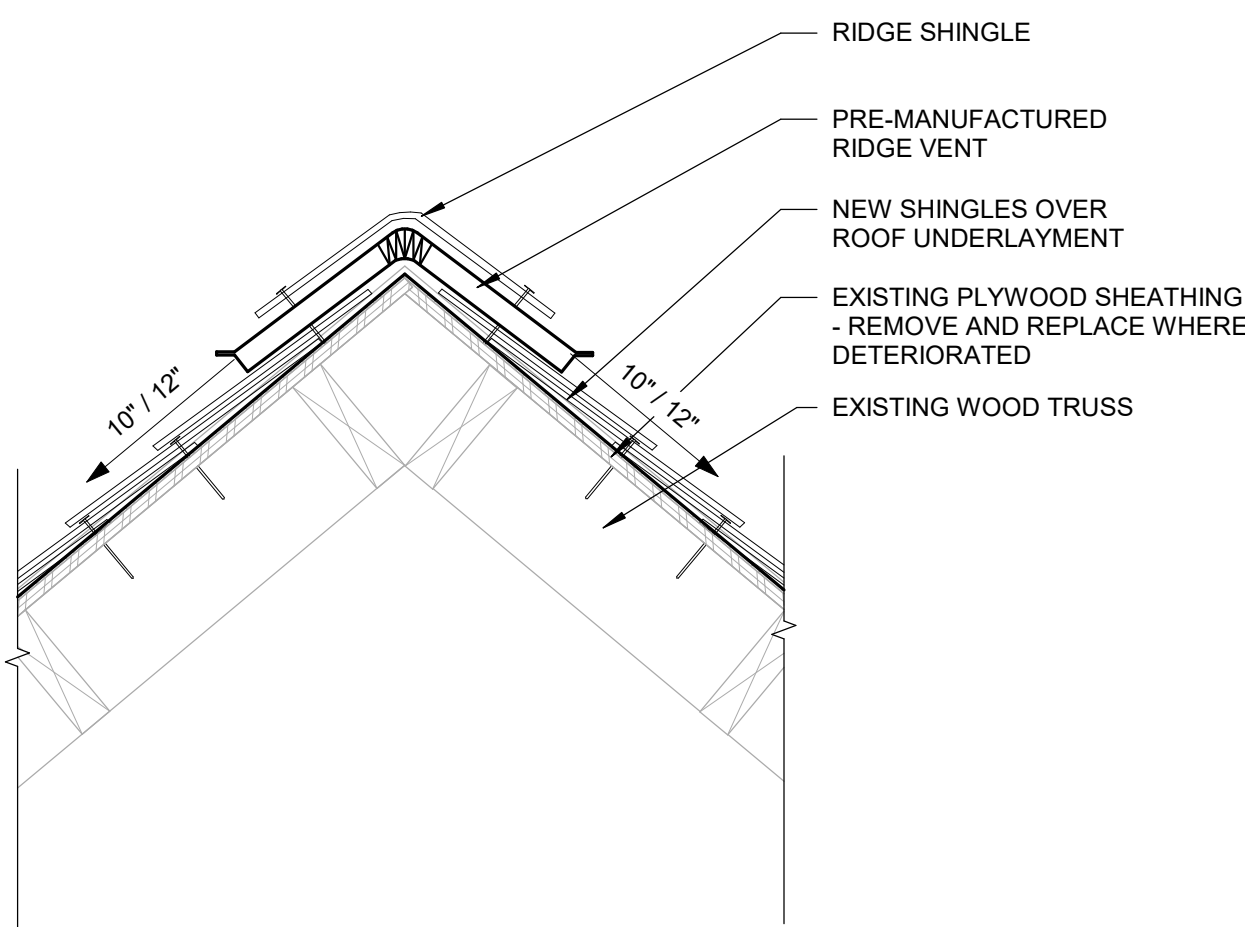
6 ROOF TO WALL CONNECTION  
SCALE: 1 1/2" = 1'-0"



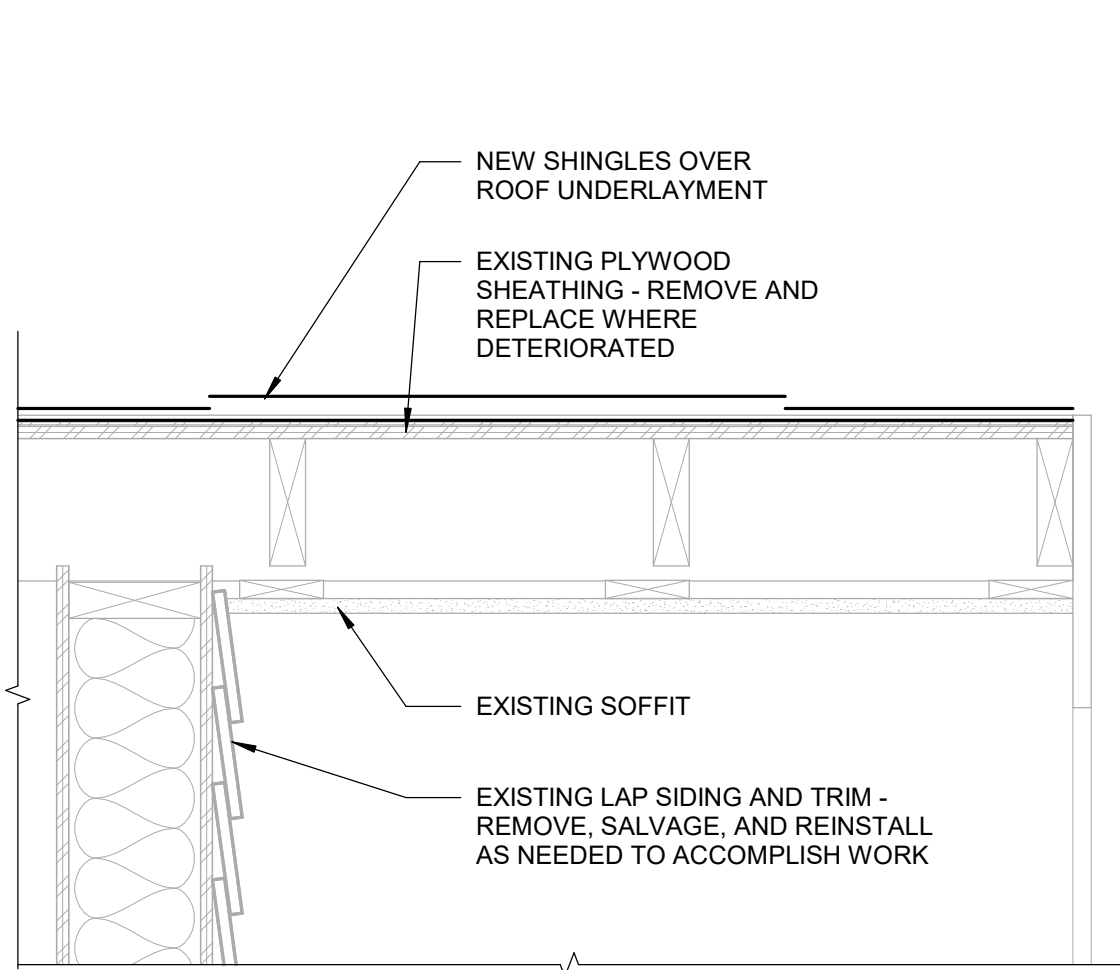
3 ROOF PENETRATION DETAIL  
SCALE: 1 1/2" = 1'-0"



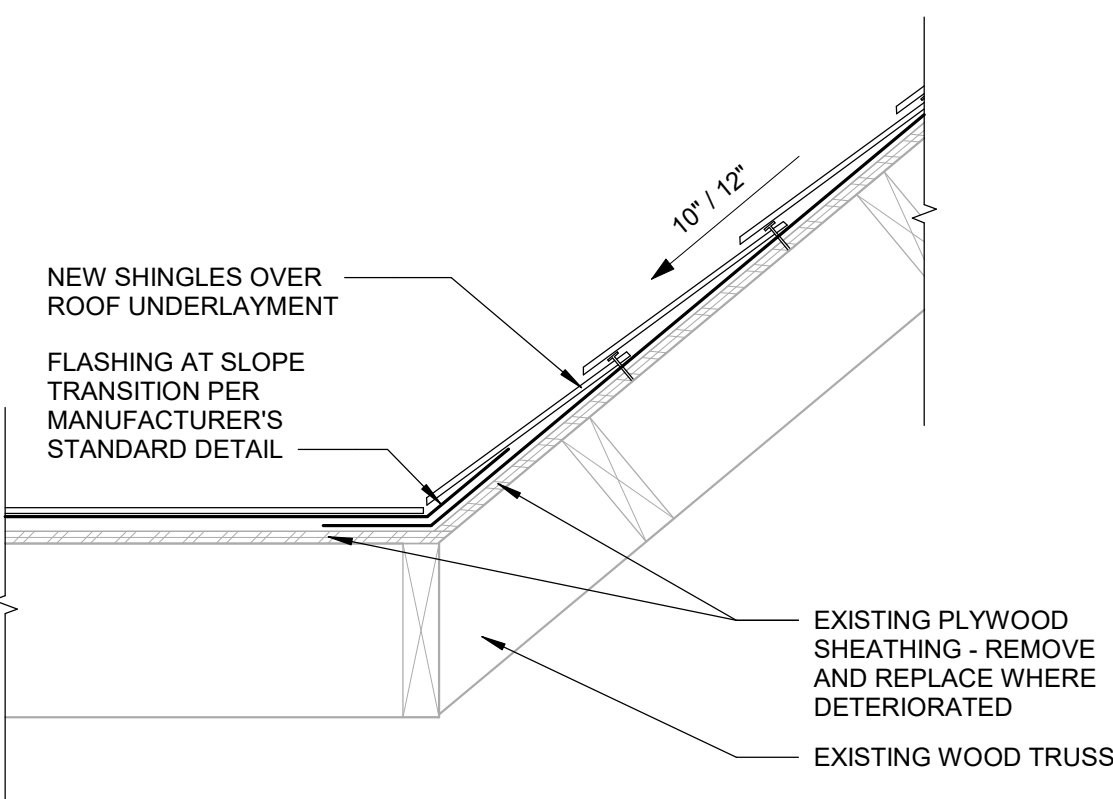
5 ROOF TO SIDING CONNECTION  
SCALE: 1 1/2" = 1'-0"



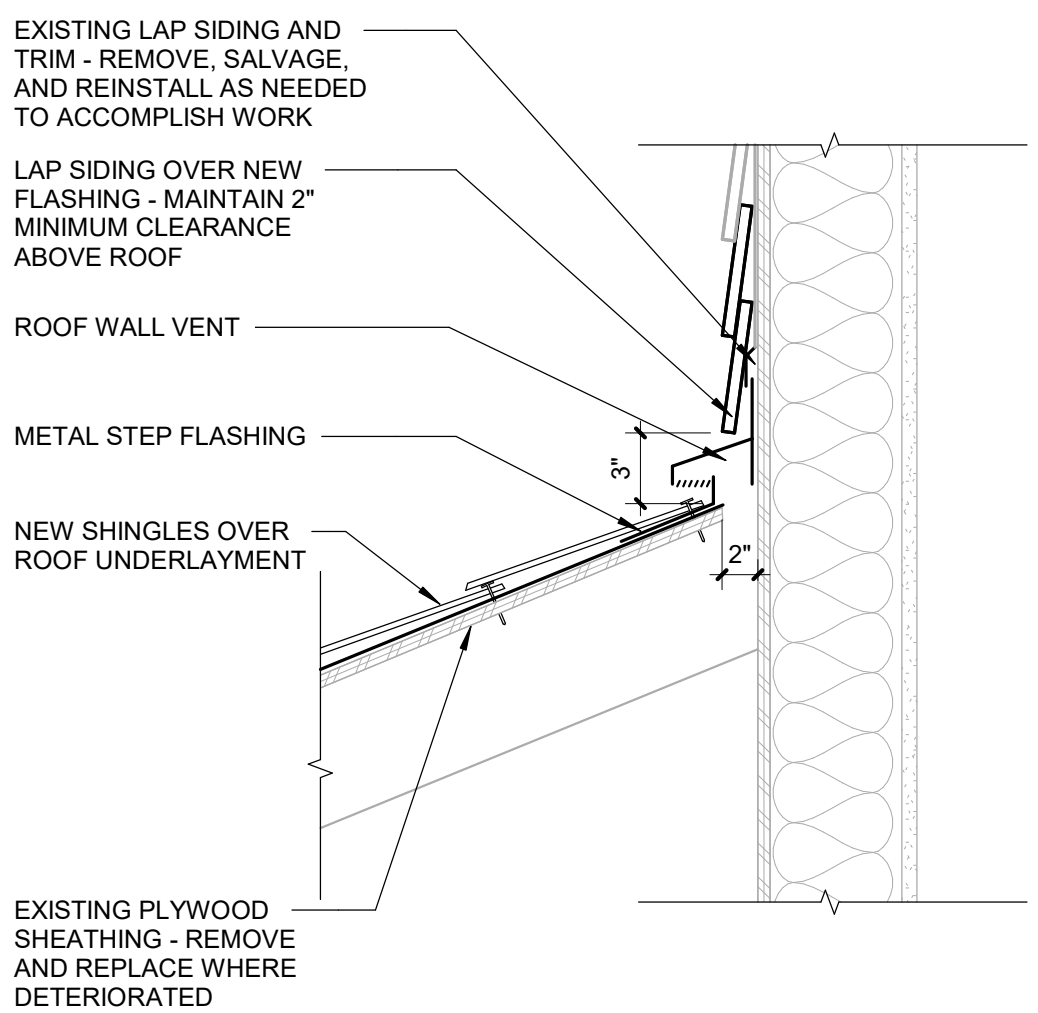
2 RIDGE DETAIL  
SCALE: 1 1/2" = 1'-0"



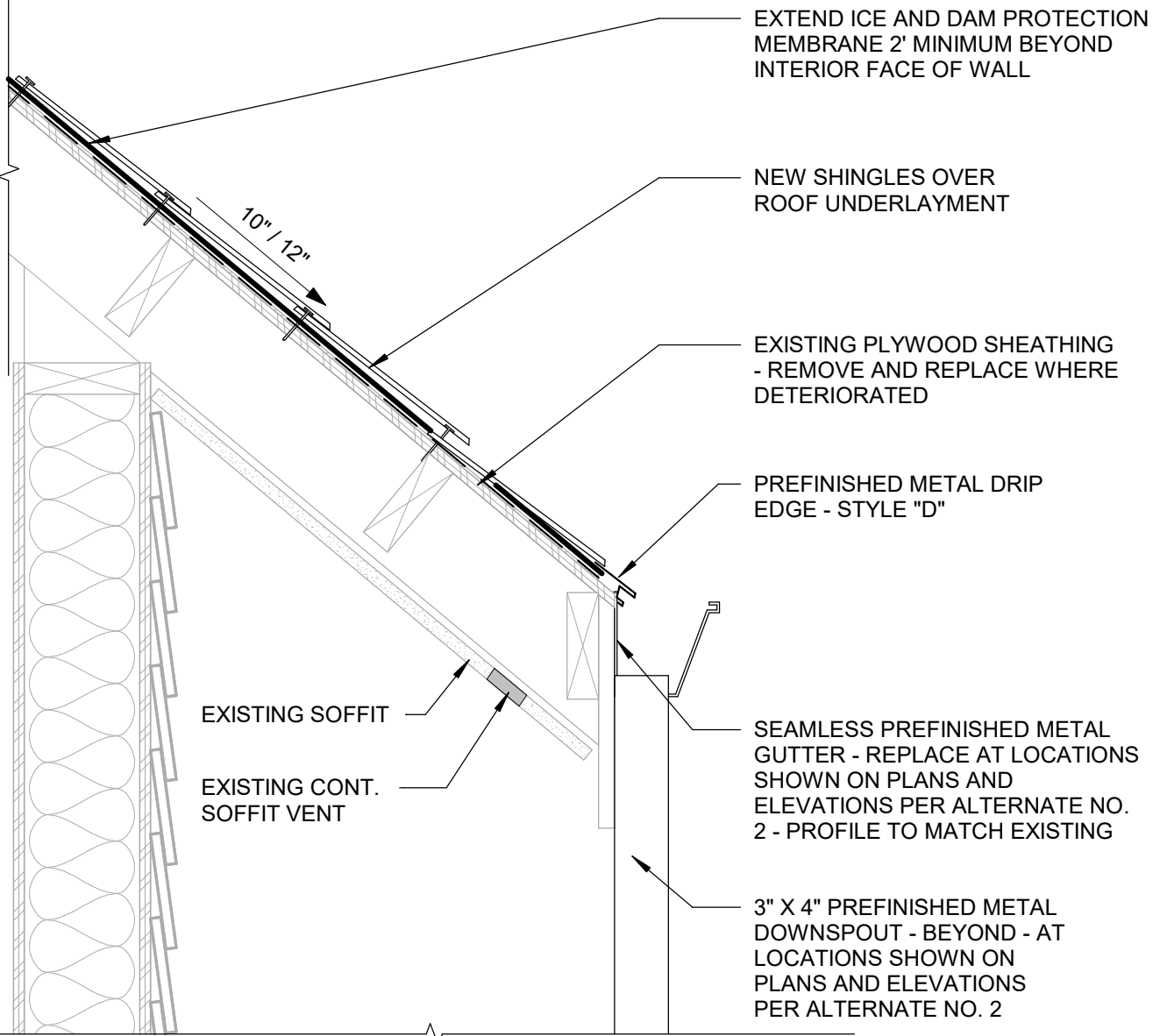
8 ROOF EDGE DETAIL  
SCALE: 1 1/2" = 1'-0"



7 SLOPED TO LOW-SLOPED ROOF RIDGE  
SCALE: 1 1/2" = 1'-0"

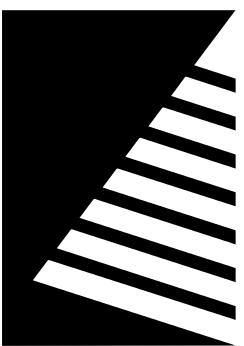


4 ROOF TO SIDING w/ VENT CONNECTION  
SCALE: 1 1/2" = 1'-0"



1 GUTTER DETAIL  
SCALE: 1 1/2" = 1'-0"





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HONEY CREEK  
RESORT - LODGE  
ROOF REPLACEMENT

12633 RESORT DR,  
MORAVIA, IA 52571

DATE: 03/10/2025

DESIGNED: SD

DRAWN: SD

REVIEWED: SH

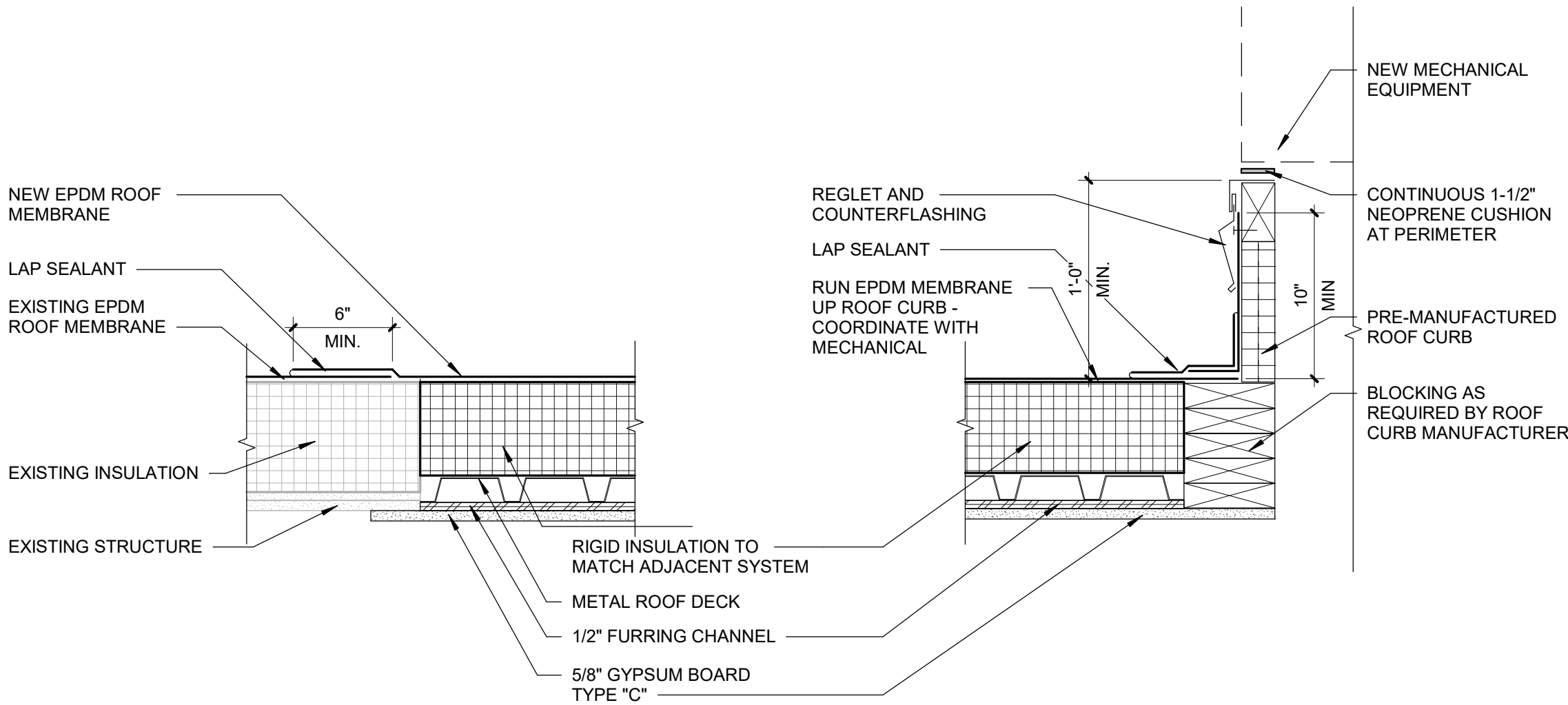
SHEET TITLE:

ROOF DETAILS

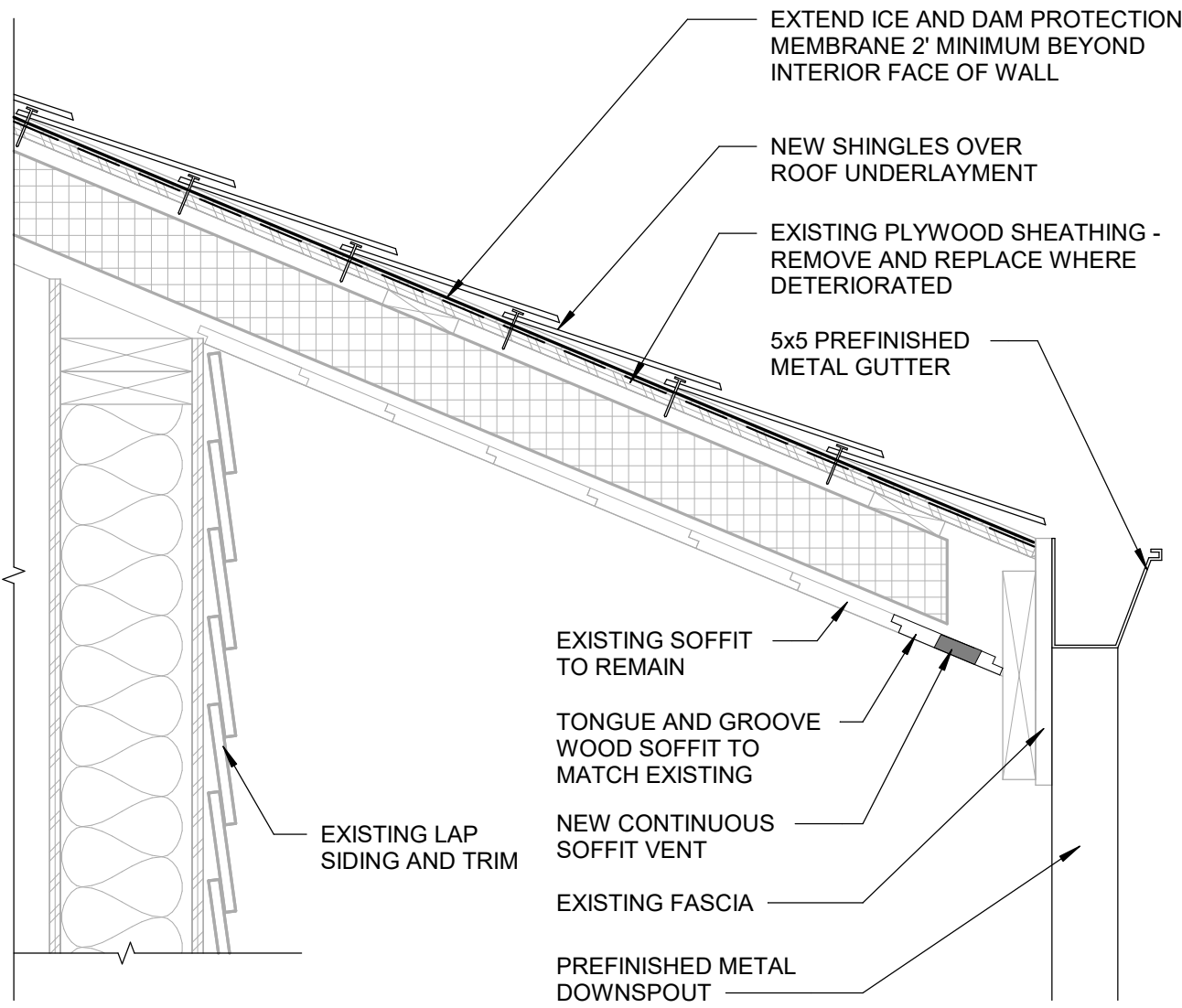
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A7.2

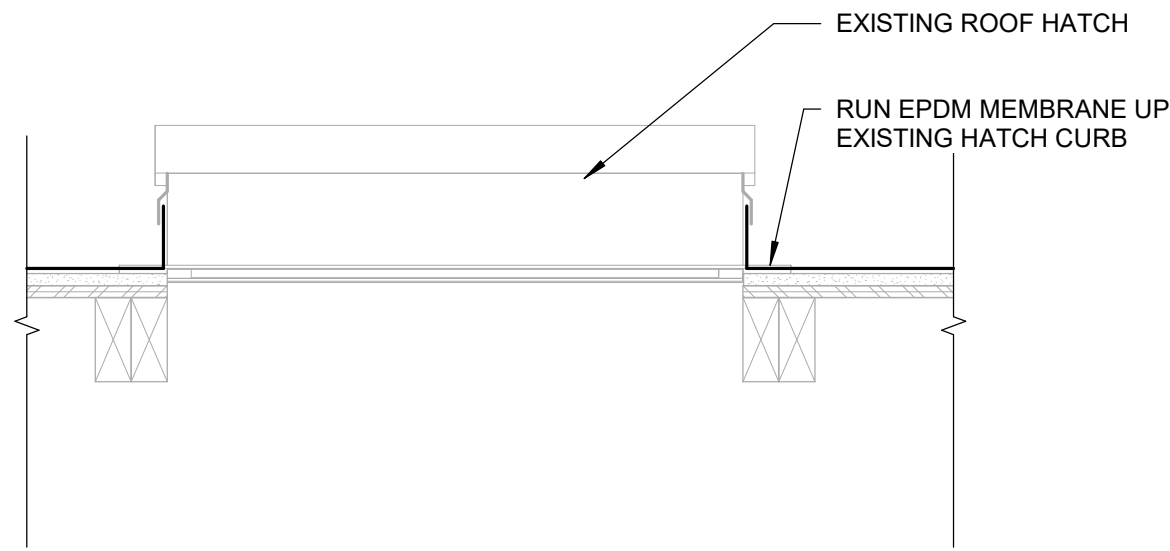
PROJECT NO.: 0241298.00



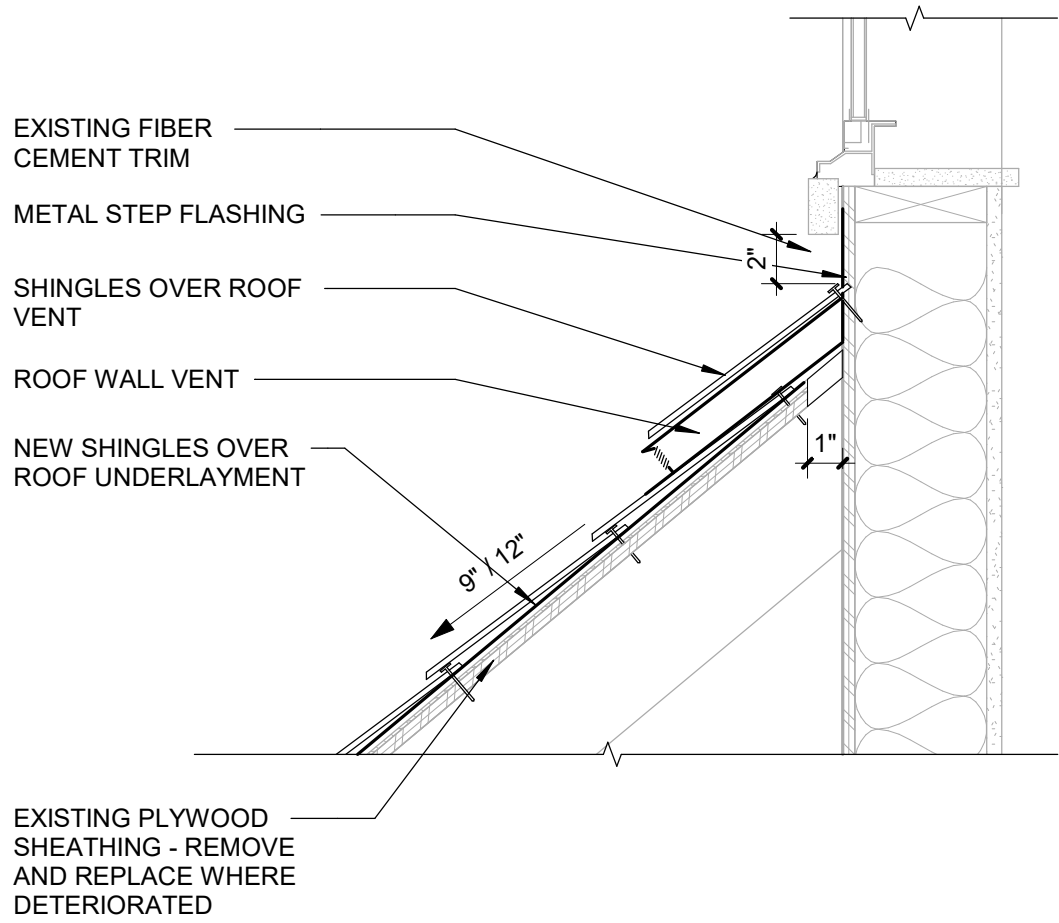
6 ROOF CURB INFILL AND NEW CURB DETAIL  
SCALE: 1 1/2" = 1'-0"



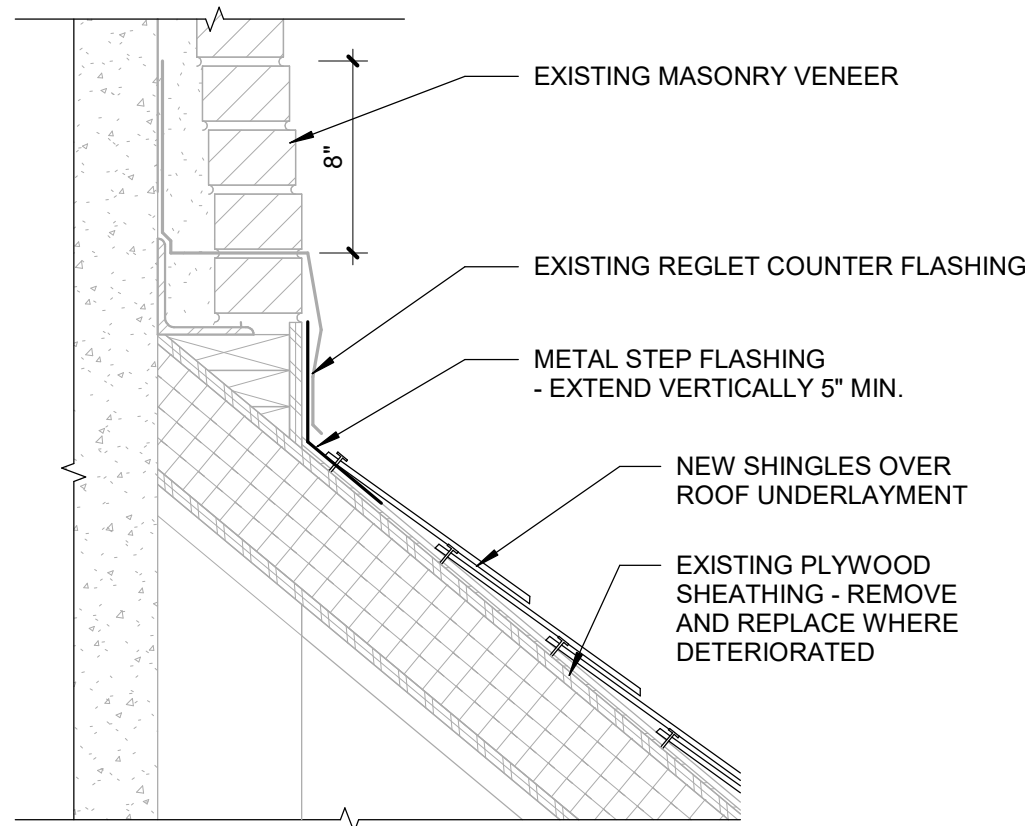
7 ROOF DETAIL AT OVERHANG WITH SOFFIT VENT  
SCALE: 1 1/2" = 1'-0"



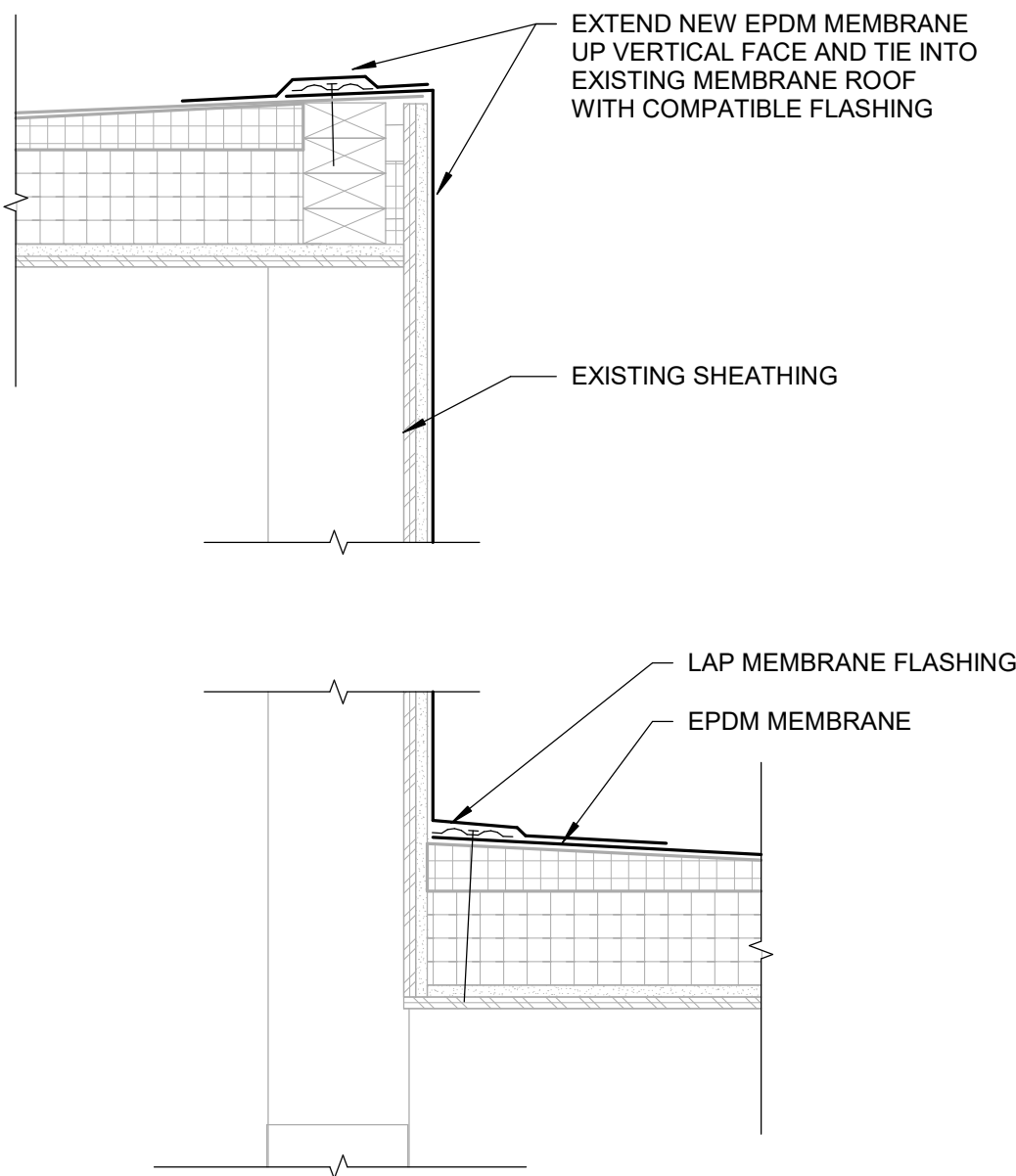
3 EXISTING ROOF HATCH  
SCALE: 1 1/2" = 1'-0"



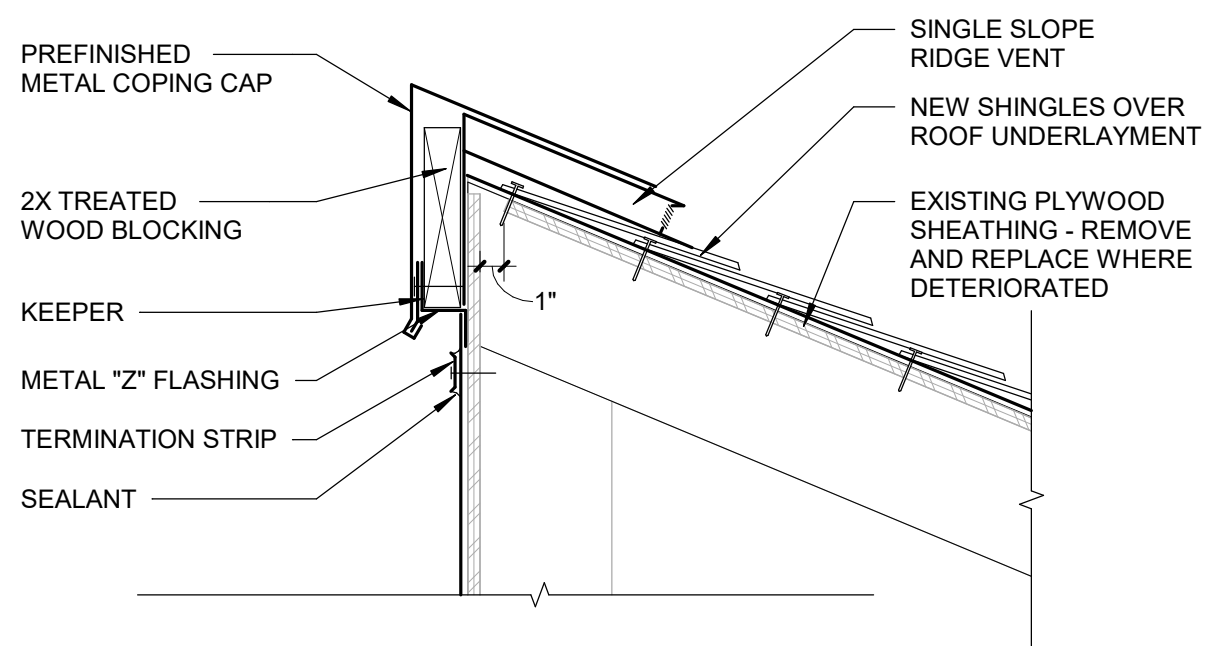
5 ROOF AT WINDOW SILL DETAIL  
SCALE: 1 1/2" = 1'-0"



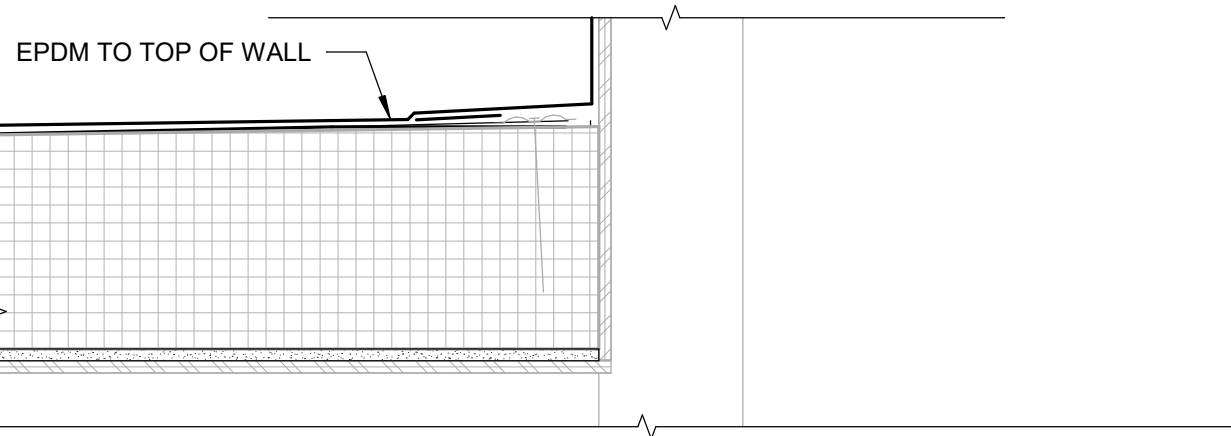
2 ROOF AT CHIMNEY DETAIL  
SCALE: 1 1/2" = 1'-0"



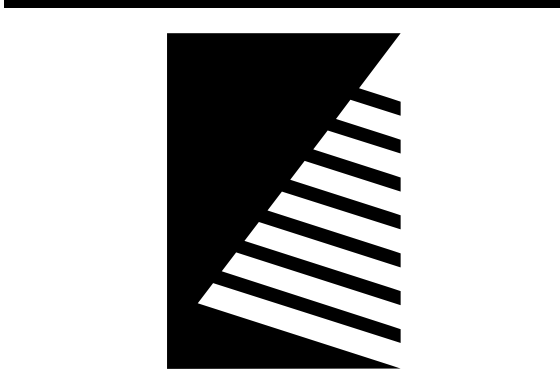
4 MID-ROOF DETAIL  
SCALE: 1 1/2" = 1'-0"



1 ROOF EDGE  
SCALE: 1 1/2" = 1'-0"



SHEET LIST		
Discipline	No.	Description
MECHANICAL	M0.1	GENERAL INFORMATION
MECHANICAL	M1.1	FIRST FLOOR MECHANICAL PLAN
MECHANICAL	MD1.1	FIRST FLOOR MECHANICAL DEMOLITION PLAN



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PROJECT:  
DAS PROJECT 9435.00

## HONEY CREEK RESORT - LODGE ROOF REPLACEMENT

12633 RESORT DR,  
MORAVIA, IA 52571

DATE: 03/10/2025

DESIGNED: WCR

DRAWN: LMK

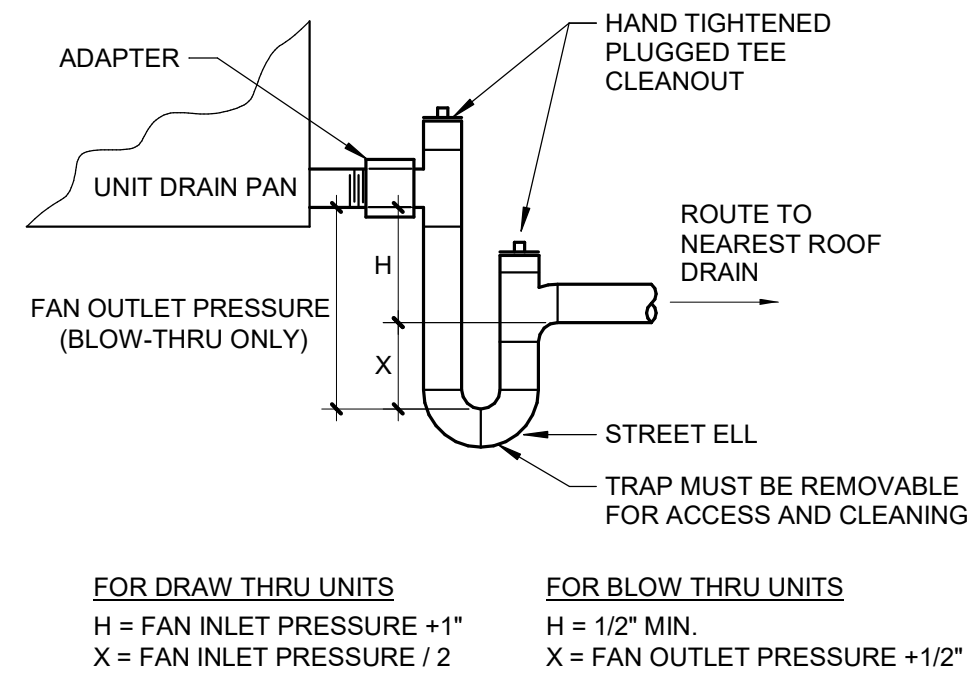
REVIEWED: WCR

## GENERAL INFORMATION

SHEET NUMBER:

# M0.1

PROJECT NO.: 0241298.00



FOR DRAW THRU UNITS  
H = FAN INLET PRESSURE +1"  
X = FAN INLET PRESSURE / 2

FOR BLOW THRU UNITS  
H = 1/2" MIN.  
X = FAN OUTLET PRESSURE +1/2"

## 1 CONDENSATE DRAIN

SCALE: No Scale

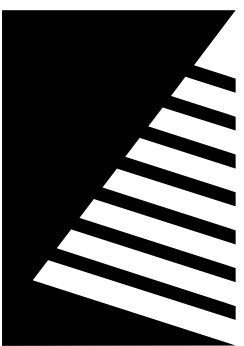
SYMBOLS LEGEND	
NOTE: NOT ALL SYMBOLS ARE USED IN CONSTRUCTION DOCUMENTS	
<b>HYDRONIC</b>	<b>VENTILATION</b>
3-WAY CONTROL VALVE	THERMOSTAT
ANGLE GATE VALVE	AHU-1—EQUIPMENT TO BE CONTROLLED
ANGLE GLOBE VALVE	GUARD—LOCKABLE GUARD WHERE INDICATED
BALANCING/SHUTOFF VALVE	TEMP—SENSOR
BALL VALVE	HUMID CO2—ELEMENT TO BE MONITORED
BUTTERFLY VALVE	C O2 GUARD—LOCKABLE GUARD WHERE INDICATED
CALIBRATED BALANCING VALVE	HUMIDISTAT
CHECK VALVE	WALL SWITCH
CONTROL VALVE	CFM—TRANSFER AIR
EXPANSION VALVE	12x8—RECTANGULAR DUCT
GAS COCK	
GATE VALVE	
GLOBE VALVE	
PLUG VALVE	
PRESSURE REDUCING VALVE (WATER)	FLAT OVAL DUCT
PRESSURE REGULATOR (GAS)	SUPPLY DIFFUSER/REGISTER
QUICK OPEN VALVE	RETURN REGISTER/GRILLE
SAFETY RELIEF VALVE	EXHAUST REGISTER/GRILLE
SOLENOID VALVE	DIFFUSER AIRFLOW PATTERN IF OTHER THAN 4-WAY BLOW
VACUUM RELIEF VALVE	
AUTOMATIC AIR VENT	CEILING RETURN REGISTER WITH LINED DUCT FOR SOUND ATTENUATION OPEN TO CEILING PLENUM
MANUAL AIR VENT	FLEXIBLE DUCT CONNECTION TO EQUIPMENT OR BETWEEN DUCTS
FLOW SENSOR/SWITCH	VOLUME DAMPER
PRESSURE SENSOR/SWITCH	MOTORIZED DAMPER
TEMPERATURE SENSOR/SWITCH	FIRE DAMPER
PRESSURE GAUGE	SMOKE DAMPER
THERMOMETER	COMBINATION FIRE/SMOKE DAMPER
PIPE SLOPE ARROW	SUPPLY AIR DUCT TOWARDS
PIPE ANCHOR	SUPPLY AIR DUCT AWAY
PIPE GUIDES	RETURN/OUTDOOR AIR DUCT TOWARDS
PIPE EXPANSION JOINT	RETURN/OUTDOOR AIR DUCT AWAY
FLEXIBLE PIPE CONNECTOR	EXHAUST AIR DUCT TOWARDS
PIPE UNION	EXHAUST AIR DUCT AWAY
CONCENTRIC REDUCER	
ECCENTRIC REDUCER	
WYE STRAINER	
WYE STRAINER W/DRAIN VALVE	
DIRECTION OF FLOW	
STEAM BUCKET TRAP	
STEAM F&T TRAP	
BACKFLOW PREVENTER	
PRESSURE/TEMPERATURE PLUG	
PUMP	
METER	
PIPE TURNING UP	
PIPE TURNING DOWN	
TEE OFF TOP	
TEE OFF BOTTOM	
PIPE TEE	
PIPE CAP	
PLAN 90 DEGREE ELBOW	
PLAN 45 DEGREE ELBOW	

ABBREVIATIONS	
AC	ABOVE CEILING/AIR CONDITIONER
ACC	AIR COOLED CONDENSER
AF	AIR FILTER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMS	AIR MEASURING STATION
AS	AIR SEPARATOR
AV	AUTOMATIC AIR VENT
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BFC	BELOW FINISHED CEILING
BFP	BACKFLOW PREVENTION DEVICE
BJ	BETWEEN JOISTS
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNITS PER HOUR
CA	COMPRESSED AIR
CBS	COUNTER BALANCED SHUTTER
CC	COOLING COIL
CF	CEILING / CIRCULATING FAN
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHP	CHILLED WATER PUMP
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CNV	CONVECTOR
COND	CONDENSATE
CP	CONDENSATE PUMP
CU	CONDENSING UNIT
CV	CONTROL VALVE
CW	DOMESTIC COLD WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DAC	DOOR AIR CURTAIN
DC	DRY COOLER
DH	DEHUMIDIFIER
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DP	DIFFERENTIAL PRESSURE
DS	DUCT SILENCER
DSU	DUCTLESS SPLIT UNIT
DX	DX COOLING COIL
EA	EXHAUST AIR
EBB	ELECTRIC BASEBOARD HEATER
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EG	EXHAUST GRILLE (LESS DAMPER)
EHC	ELECTRIC HEATING COIL
EL	ELEVATION
ER	EXHAUST REGISTER
ERP	ELECTRIC RADIANT PANEL
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
FA	FRESH AIR
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FDC	FLEXIBLE DUCT CONNECTION
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FPC	FLEXIBLE PIPE CONNECTION
FPT	FAN POWERED AIR TERMINAL
FT	FINNED TUBE RADIATION
GC	GENERAL CONTRACTOR
GF	GAS FURNACE
GIH	GRAVITY INTAKE HOOD
GPM	GALLONS PER MINUTE
GR	GLYCOL RETURN
GRH	GAS RADIANT HEATER
GS	GLYCOL SUPPLY
GUH	GAS UNIT HEATER
HU	HUMIDIFIER
HC	HEATING COIL
HCWR	DUAL TEMPERATURE RETURN
HCWS	DUAL TEMPERATURE SUPPLY
HP	HEAT PUMP
HPR	HIGH PRESSURE STEAM RETURN
HPS	HIGH PRESSURE STEAM SUPPLY
HRC	HEAT RECOVERY COIL
HRV	HEAT RECOVERY VENTILATOR (SENSIBLE)
HS	HUMIDITY SENSOR
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
ISP	INTERNAL STATIC PRESSURE
KH	KITCHEN HOOD - COMMERCIAL
L	LOUVER
LPR	LOW PRESSURE STEAM RETURN
LPS	LOW PRESSURE STEAM SUPPLY
MA	MIXED AIR
MAU	MAKEUP AIR UNIT
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MD	MOTORIZED DAMPER
MS	MOTORIZED SHUTTER
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OBD	OPPOSED BLADE DAMPER
P	PUMP
PC	PLUMBING CONTRACTOR
PBD	PARALLEL BLADE DAMPER
PDH	POOL ROOM DEHUMIDIFIER
PRV	PRESSURE RELIEF VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RF	RETURN AIR FAN
RG	RETURN GRILLE (LESS DAMPER)
RH	ROOF HOOD
RHC	REHEAT COIL
RLFA	RELIEF AIR
RP	RADIANT PANEL
RPZ	REDUCED PRESSURE BFP
RR	RETURN REGISTER (WITH DAMPER)
RTU	ROOFTOP AIR HANDLING UNIT
SA	SUPPLY AIR
SAS	SELF-ACTING SHUTTER
SD	SUPPLY DIFFUSER/SMOKE DAMPER
SF	SUPPLY FAN / SQUARE FOOT
SFD	SMOKE/FIRE DAMPER
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
TCAC	TEMP. CONTROL AIR COMPRESSOR
TCAD	TEMP. CONTROL AIR DRYER
TDV	TRIPLE DUTY VALVE
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TJ	THROUGH JOISTS
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TSP	TOTAL STATIC PRESSURE
UC	UNIT COOLER
UFD	UNDERFLOOR DUCT
UFT	UNDERFLOOR FAN TERMINAL
UH	UNIT HEATER
UV	UNIT VENTILATOR
VAV	VARIABLE AIR VOLUME TERMINAL
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VRP	VERTICAL RADIANT PANEL

GENERAL NOTES	
<b>MECHANICAL EQUIPMENT INSTALLATION</b>	
A. INSTALL EQUIPMENT TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS ARE INDICATED	
B. INSTALL EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS IN EXPOSED INTERIOR SPACES, UNLESS OTHERWISE INDICATED	
C. INSTALL HVAC EQUIPMENT TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT EQUIPMENT FOR EASE OF REMOVAL, WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS	
D. THE INSTALLING CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ALL MECHANICAL EQUIPMENT PUT INTO OPERATION PRIOR TO THE INSTALLATION OF A WORKING CONTROL SYSTEM.	
<b>DEMOLITION</b>	
A. VERIFY EXACT SIZE AND LOCATION OF EXISTING UTILITIES PRIOR TO START OF DEMOLITION WORK	
B. RELOCATE, REMOVE, AND ADJUST ALL MECHANICAL AND ELECTRICAL ITEMS AS REQUIRED TO ACCOMPLISH SCOPE OF NEW WORK	
C. EXISTING MECHANICAL ITEMS ARE SHOWN IN SCHEMATIC FORM BASED UPON EXISTING CONSTRUCTION DOCUMENTS AND/OR FIELD INVESTIGATION	
D. FIXTURES AND EQUIPMENT INDICATED TO BE REUSED OR SALVAGED SHALL REMAIN THE PROPERTY OF THE OWNER AND BE STORED IN A LOCATION AS DIRECTED BY OWNER'S REPRESENTATIVE	
E. IN LOCATIONS WHERE EXISTING CONSTRUCTION IS REMOVED AND NO ADDITIONAL CONSTRUCTION IS INDICATED, PATCH EXISTING CONSTRUCTION TO MATCH ADJACENT SURFACES AND FINISHES	
<b>DDC CONTROLS</b>	
DDC CONTROLS HAVE BEEN CONTRACTED WITH JCI (TODD MAGNANI) - (515) 202-9448 todd.l.magnani@jci.com). THIS CONTRACTOR TO COORDINATE CONTROLS INSTALLATION WITH JCI AND ENSURE THE WORK HAS BEEN COMPLETED FOR THIS UNIT. CONTACT JCI PRIOR TO BID TO COORDINATE ANY CONTROLS REQUIRED BY THE RTU EQUIPMENT SUPPLIER TO PROVIDE AND WORK NEEDED TO COORDINATE WITH JCI THROUGHOUT THE PROJECT.	

ROOFTOP UNIT SCHEDULE																																		
MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	SUPPLY FAN					HEATING						COOLING						EER	REFRIG. TYPE	FILTER			ELECTRICAL DATA			PHYSICAL DATA				REMARKS
					CFM	MIN. OA CFM	ESP (IN. W.C.)	HP	FLA	BURNER CONTROL	FUEL	INPUT (MBH)	OUTPUT (MBH)	EAT (%Δ F)	LAT (%Δ F)	TOTAL CAP. (MBH)	SENS. CAP. (MBH)	EDB (%Δ F)	EWB (%Δ F)	LDB (%Δ F)	LWB (%Δ F)			MERV	THICK. (IN.)	MAX. FACE VEL. (FPM)	V/PH	MCA	MFS	L (IN.)	W (IN.)	H (IN.)	WT. (LB.)	
RTU3	TRANE	OAND480A4	ROOF	KITCHEN HOOD	5800	5800	1.0	5	80.2	8:1 TURNDOWN	PROPANE	675	546.75	-15	71.9	458.6	237.6	92.9	77.7	54.1	53.9	11.3	R-454B	8	2	245	460/3	76.2	90	197	101	93	5273	1-9
<div>NOTES:</div> <div>1. FURNISH WITH NON FUSED DISCONNECT WITH POWERED 115V CONVENIENCE OUTLET.</div> <div>2. OUTDOOR AIR SENSOR FOR TEMPERATURE AND HUMIDITY</div> <div>3. MODULATING HOT GAS REHEAT</div> <div>4. FACTORY INSTALLED VFDS ON THE SUPPLY FANS</div> <div>5. DIGITAL SCROLL PRIMARY CIRCUIT. MODULATION FROM 20-100%.</div> <div>6. BACKNET CONTROLLER.</div> <div>7. 2-POSITION OUTDOOR AIR DAMPERS.</div> <div>8. CONDENSER HAILGAURDS</div> <div>9. STAINLESS STEEL LP FURNACE</div>																																		





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ISSUE:  
# DATE: DESCRIPTION:

100% CD SET

PROJECT:  
DAS PROJECT 9435.00

HONEY CREEK  
RESORT - LODGE  
ROOF REPLACEMENT

12633 RESORT DR,  
MORAVIA, IA 52571

DATE: 03/10/2025

DESIGNED: WCR

DRAWN: LMK

REVIEWED: WCR

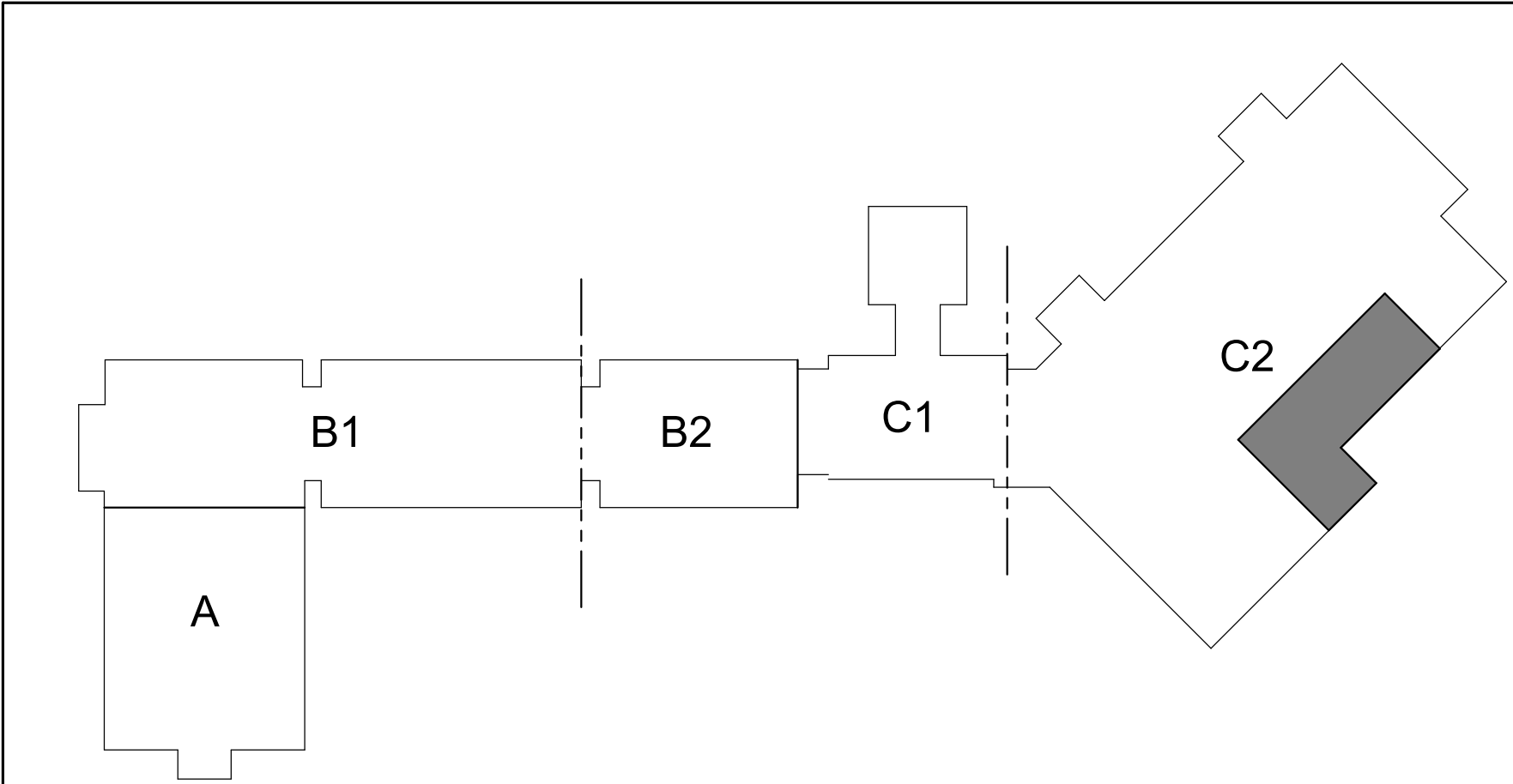
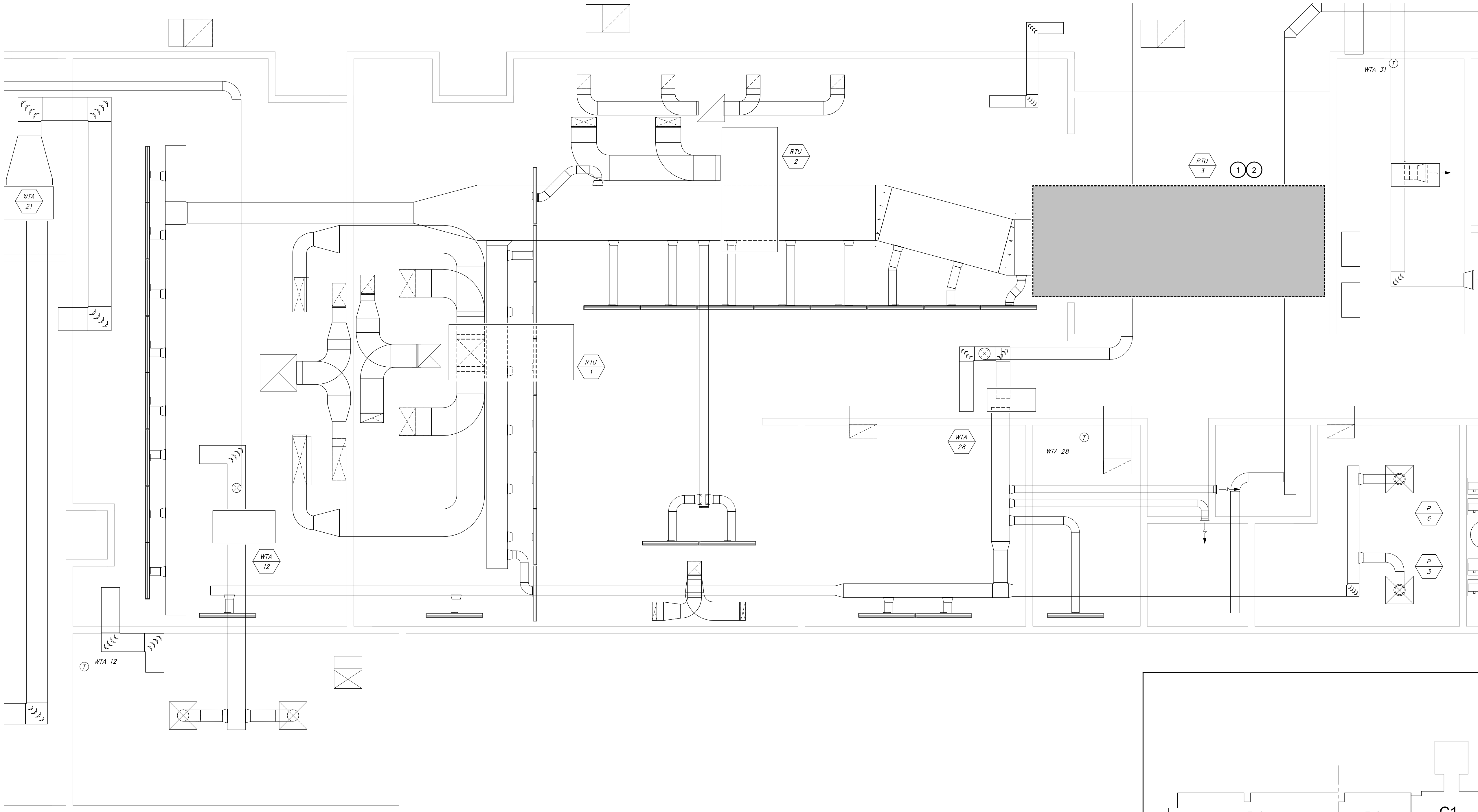
SHEET TITLE:

FIRST FLOOR  
MECHANICAL  
DEMOLITION PLAN

SHEET NUMBER:

MD1.1

PROJECT NO.: 0241298.00



KEY PLAN

SCALE: NOT TO SCALE



KEYNOTES (#)

- 1 REMOVE RTU3 AND CURB, WIRING, AND CONTROLS. PREPARE FOR REPLACEMENT.
- 2 TURN-OFF AND DISCONNECT GAS SERVICE TO UNIT. PREPARE FOR CONNECTION TO NEW UNIT.

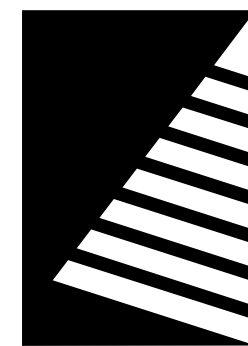
GENERAL NOTES

- A. CONTRACTOR TO PATCH AND PAINT WALLS WHERE SENSORS, CONTROLLERS OR OTHER EQUIPMENT IS REMOVED.
- B. CONTRACTOR TO PROVIDE 3 WEEKS NOTICE TO OWNER FOR ANY UTILITY OR EQUIPMENT SHUT DOWNS.
- C. CONTRACTOR TO COORDINATE AFTER HOURS OR WEEKEND WORK WITH OWNER.
- D. CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS REQUIRED.

1 ENLARGED MECHANICAL DEMOLITION PLAN  
SCALE: 1/4" = 1'-0"



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# Farnsworth GROUP

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Engineers | Architects | Surveyors | Scientists

ISSUE #	DATE	DESCRIPTION
1	09/20/24	Permit Set

100% CD SET

PROJECT:  
DAS PROJECT 9435.00

## HONEY CREEK RESORT - LODGE ROOF REPLACEMENT

12633 RESORT DR,  
MORAVIA, IA 52571

DATE: 03/10/2025

DESIGNED: WCR

DRAWN: LMK

REVIEWED: WCR

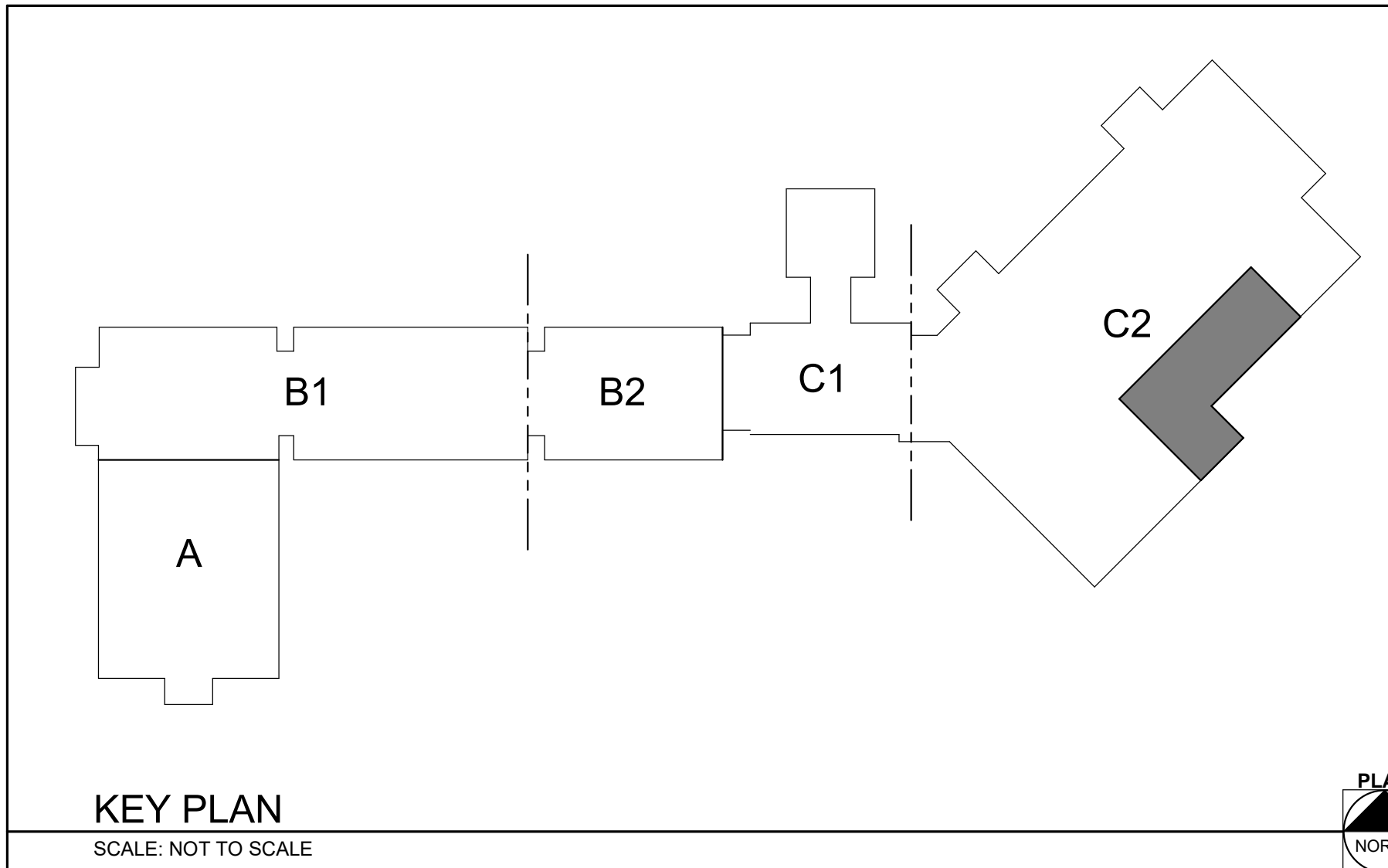
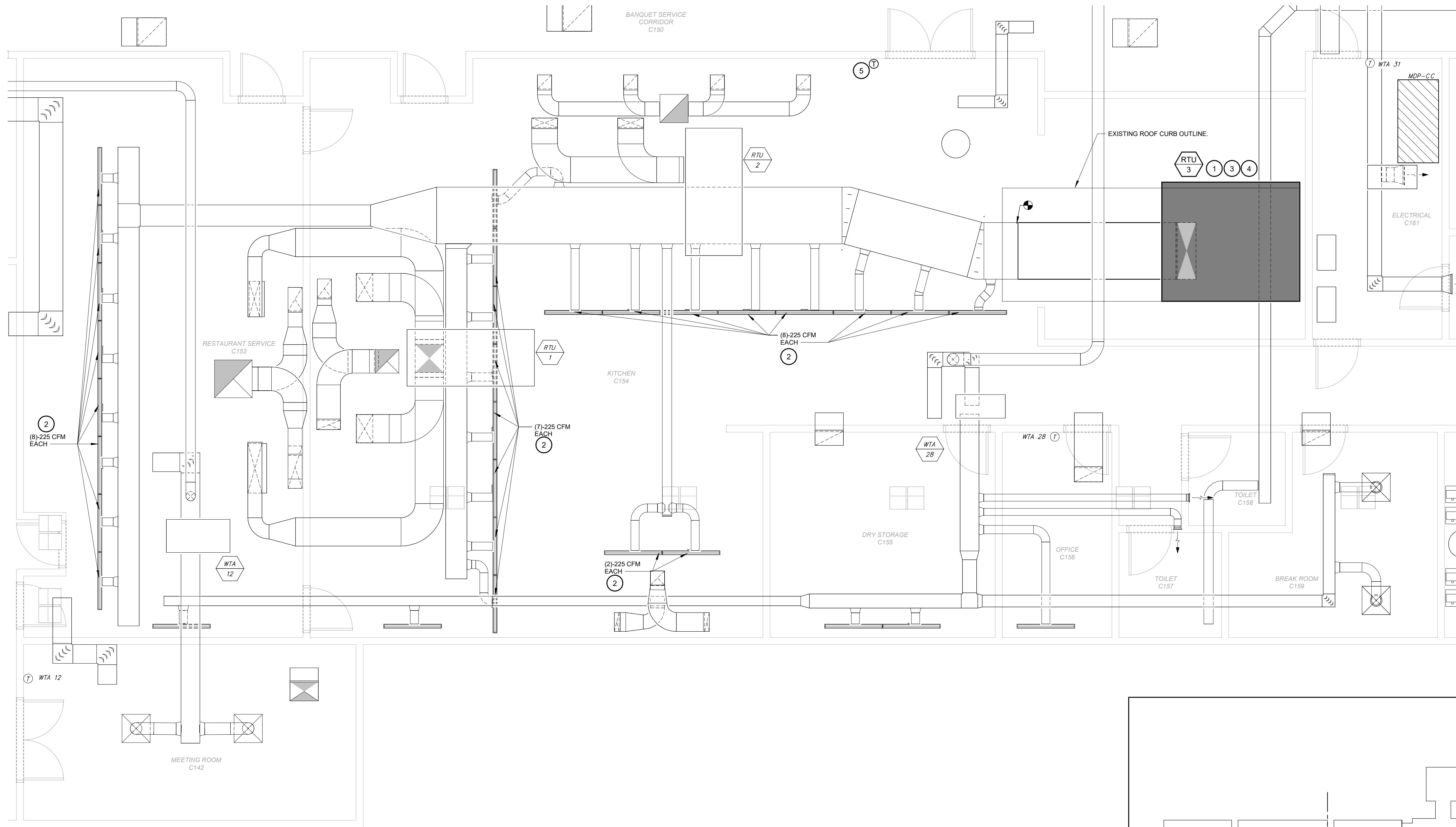
SHEET TITLE:

## FIRST FLOOR MECHANICAL PLAN

SHEET NUMBER:

M1.1

PROJECT NO.: 0241298.00



### KEYNOTES #

- PROVIDE NEW ROOF CURB FOR REPLACEMENT ROOFTOP UNIT. REPLACE EXISTING CONTROLS FOR ROOFTOP UNIT AND HVAC FOR THE KITCHEN AREA. UNIT MUST HAVE BACNET CONTROLLER. COORDINATE WITH JCI WHO IS CONTRACTED UNDER ANOTHER PROJECT TO PROVIDE CONTROLS FOR THIS UNIT.
- REBALANCE EXISTING DIFFUSERS TO AIRFLOWS SHOWN.
- EXISTING RTU-3 POWERED FROM MDP-CC. CONNECT NEW RTU-3 TO EXISTING RTU-3 CIRCUIT. VERIFY PROPER OPERATION.
- RECONNECT EXISTING GAS LINE TO NEW RTU.
- PROVIDE NEW THERMOSTAT AND CONNECT TO NEW RTU.

### GENERAL NOTES

- CONTRACTOR TO PATCH AND PAINT WALLS WHERE SENSORS, CONTROLLERS OR OTHER EQUIPMENT IS REMOVED.
- CONTRACTOR TO PROVIDE 3 WEEKS NOTICE TO OWNER FOR ANY UTILITY OR EQUIPMENT SHUT DOWNS.
- CONTRACTOR TO COORDINATE AFTER HOURS OR WEEKEND WORK WITH OWNER.
- CONTRACTOR TO REMOVE AND REINSTALL CEILING TILES AS REQUIRED.

## 1 FIRST FLOOR MECHANICAL PLAN

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



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