

CITY OF MARSHALLTOWN  
ANSON PARK SHELTER RENOVATION

#PRK20001

MARSHALLTOWN, IOWA

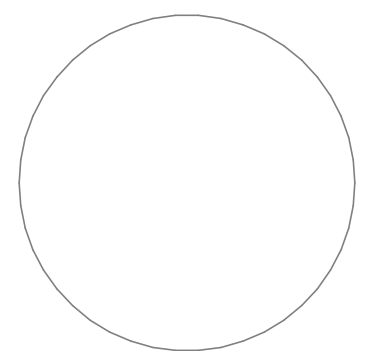
REBID DOCUMENTS  
04/20/2021

## MOST COMMONLY USED ABBREVIATIONS

ABBREVIATIONS:		D	DEPTH	FR	FIRE RESISTANT/FRAME	MC	MEDICINE CABINET	RFI	REQUEST FOR INFORMATION	UG	UNDERGROUND
AB	ANCHOR BOLT/ROD	DBL	DOUBLE	FRP	FIBERGLASS REINFORCED PANEL	MECH	MECHANICAL	RFP	REQUEST FOR PROPOSAL	UH	UNIT HEATER
ABV	ABOVE	DEMO	DEMOLITION, DEMOLISH	FS	FLOOR SINK	MEMB	MEMBRANE	RH	RIGHT HAND	UNFN	UNFINISHED
AC	ASPHALTIC CONCRETE/AIR CONDITIONER	DEPT	DEPARTMENT	FT	FOOT, FEET/FIRE TREATED	MEZZ	MEZZANINE	RL	RIDGE LINE	UNO	UNLESS NOTED OTHERWISE
ACC	ACCESSIBLE	DET	DETAIL	FTG	FOOTING	MFR	MANUFACTURE (R)	RM	ROOM	UTIL	UTILITY
ACM	ALUMINUM COMPOSITE MATERIAL	DF	DRINKING FOUNTAIN	FURR	FURRING	MIN	MINIMUM	RO	ROUGH OPENING	V	SHEAR
ACOUS	ACOUSTICAL	DIA	DIAMETER	FUT	FUTURE	MISC	MISCELLANEOUS	ROW	RIGHT OF WAY	VAR	VARIES
ADD	ADDENDUM	DIAG	DIAGONAL	GA	GAGE, GAUGE	MO	MASONRY OPENING	RWL	RAIN WATER LEADER	VB	VAPOR BARRIER / VINYL BASE
ADH	ADHESIVE	DM	DIMENSION	GB	GRAB BAR	MR	MIRROR	S	SOUTH	VCT	VINYL COMPOSITION TILE
ADJ	ADJUSTABLE, ADJACENT, ADJOINING	DIV	DIVIDE, DIVISION	GC	GENERAL CONTRACTOR	MTL	METAL	SB	SPLASH BLOCK	VERT	VERTICAL
AFF	ABOVE FINISH FLOOR	DISP	DISPENSER	GALV	GALVANIZED	N	NORTH	SC	SOLID CORE	VEST	VESTIBULE
AFG	ABOVE FINISH GRADE	DN	DOWN	GL	GLASS	NA	NOT APPLICABLE	SCHED	SCHEDULE	VIF	VARIIFY IN FIELD
ALT	ALTERNATE	DR	DOOR	GLU LAM	GLUE LAMINATED (BEAM)	NIC	NOT IN CONTRACT	SCR	SHOWER CURTAIN ROD	VR	VAPOR RETARDER
ALUM	ALUMINUM	DS	DOWNSPOUT	DW	DISHWASHER	NO	NUMBER	SCF	SECTION	VWB	VINYL WALL BASE
APC	ACOUSTICAL PANEL CEILING	DWG	DRAWING (S)	DYP	GYP SUM	NOM	NOMINAL	SD	SOAP DISPENSER	VWC	VINYL WALL COVERING
ARCH	ARCHITECT (URAL)	DRAW	DRAWER			NTS	NOT TO SCALE	SF	SQUARE FOOT	W	WEST/WIDTH
ASI	ARCHITECTURAL SUPPLEMENTAL	DWTR	DUMBWAITER			OC	ON CENTER	SHT	SHEET	WI	WITH
AWP	ACOUSTICAL WALL PANEL					OD	OUTSIDE DIAMETER	SHTG	SHEATHING	WO	WITHOUT
		(E)	EXISTING			OFCI	OWNER FURNISHED / CONTRACTOR	SIM	SIMILAR	WA	WEDGE ANCHOR
BD	BOARD	EA	EACH			OFI	OWNER FURNISHED / OWNER	SLOG	SLIDING	WB	WOOD BASE
BEV	BEVELED	EF	EACH FACE			OH	OVERHEAD	SLNT	SEALANT	WC	WATER CLOSET
BFF	BELOW FINISH FLOOR	EJ	EXPANSION JOINT			OP	OPPOSITE	SND	SANITARY NAPKIN DISPENSER	WD	WOOD/WOODWORK
BLDG	BUILDING	EL	ELEVATION			ORIG	ORIGINAL	SNDU	SANITARY NAPKIN DISPOSAL UNIT	WDW	WINDOW
BLKG	BLOCK (ING)	ELEC	ELECTRICAL			OPG	OPENING	SOG	SLAB ON GRADE	WF (W)	WIDE FLANGE
BM	BEAM	ELEV	ELEVATOR			ORIS	OVERFLOW ROOF DRAIN	SQ	SQUARE	WG	WALL GUARD
BOT	BOTTOM	ENL	ENLARGED			ORD	OUNCE	SSM	SOLID SURFACE MATERIAL	WH	WATER HEATER
BO	BOTTOM OF	EMER	EMERGENCY			OZ		SST	STAINLESS STEEL	WI	WROUGHT IRON
BOC	BOTTOM OF CONCRETE	ENGR	ENGINEER			PAR	PARALLEL	ST	STREET	WL	WIND LOAD
BRG	BEARING	EOP	EDGE OF PAVEMENT			PCF	POUNDS PER CUBIC FOOT	STC	SOUND TRANSMISSION CLASS	WP	WATERPROOF (ING)
BRK	BRICK	ETPM	ETHYLENE-PROPYLENE DIENE MONOMER			PE	PEDESTAL	STD	STANDARD	WR	WATER RESISTANT
BSMT	BASEMENT	EPS	EXPANDED POLYSTYRENE BOARD			PERF	PERFORATED	STL	STEEL	WSCOT	WAINSCOT
BTWN	BETWEEN	EQU	EQUAL			PERP	PERPENDICULAR	STOR	STORAGE	WT	WEIGHT/WINDOW TREATMENT
		EQUIP	EQUIPMENT			PL	PLATE	STRUCT	STRUCTURAL	WWF	WELDED WIRE FABRIC
C	CHANNEL/CELSIUS	EQIP	EQUIPMENT			PLYM	PLYWOOD	SUSP	SUSPENDED		
CAB	CABINET	EST	ESTIMATE			PNL	PANEL	T	TREAD		
CB	CERAMIC BASE	ETC	ETCETERA			PR	PAIR/PROPOSAL REQUEST	T&B	TOP AND BOTTOM		
CD	CONSTRUCTION DOCUMENTS	ETR	EXISTING TO REMAIN			PRCST	PRECAST CONCRETE	T&G	TONGUE AND GROOVE		
CEM	CEMENT	EW	EACH WAY			PSI	POUNDS PER SQUARE INCH	TB	TOWEL BAR		
CG	CORNER GUARD	EX	EXISTING			PT	PAINT / PRESSURE TREATED	TBD	TO BE DETERMINED		
CICP	CAST-IN-PLACE CONCRETE	EXC	EXCAVATE/EXCAVATION			PTD	PAPER TOWEL DISPENSER	TEMP	TEMPORARY/TEMPERED		
CJ	CONTROL/CONSTRUCTION JOINT	EXP	EXPANSION/EXPOSED			KO	KNOCK OUT	TER	TERRAZZO		
CL	CENTER LINE	EXH	EXHAUST			PTH	PAPER TOWEL RECEPTACLE	THD	THREAD (ED) (S)		
CLG	CEILING	EXP	EXPANSION/EXPOSED			PTR	PAPER TOWEL RECEPTACLE	THK	THICKNESS		
CLKG	CAULKING	EXT	EXTERIOR			PVC	POLYVINYL CHLORIDE	THRU	THROUGH		
CLR	CLEAR, CLEARANCE	FIN	FINISH (ED)			QT	QUARRY TILE	TICKB	TACKBOARD		
CMU	CONCRETE MASONRY UNIT	FLR	FLOOR (ING)			R	RADIUS/RISER	TL	TILE		
CO	CHANGE ORDER/CLEAN OUT	FO	FACE OF			RBR	RUBBER	TO	TOP OF		
COL	COLUMN	FOC	FACE OF CONCRETE			RCP	REFLECTED CEILING PLAN	TOB	TOP OF BEAM		
COMB	COMBINATION	FOM	FACE OF MASONRY			RD	ROOF DRAIN	TOC	TOP OF CONCRETE/CURB		
COMP	COMPOSITE/COMPOSITION	FOS	FACE OF STUD			REC	RECESSED	TOD	TOP OF DECK		
CONC	CONCRETE	FOF	FACE OF FINISH			REF	REFERENCE/REFRIGERATOR	TOF	TOP OF FOOTING (FOUNDATION)		
CONN	CONNECT (ION)					REIN	REINFORCE (D), (ING), (MENT)	TOP	TOP OF PIER		
CONST	CONSTRUCTION					REQ	REQUIRED	TOJ	TOP OF JOIST		
CONT	CONTINUOUS, CONTINUE					REQD	REQUIRED	TOS	TOP OF SLAB/STEEL		
CONTR	CONTRACT (OR)					RES	RESILIENT FLOORING	TOW	TOP OF WALL		
COORD	COORDINATE					RET	RETURN	TPD	TOILET PAPER DISPENSER		
CORR	CORRUGATED/CORRIDOR					REV	REVISION (S), REVISED	TPN	THERMOPLASTIC POLYOLEFIN		
CPT	CARPET							TRNS	TRANSVERSE		
CSMT	CASEMENT							TS	TUBE STEEL		
CT	CERAMIC TILE							TYP	TYPICAL		
CTB	CARPET TILE BASE										
CTR	CENTER										

## MECHANICAL ENGINEER

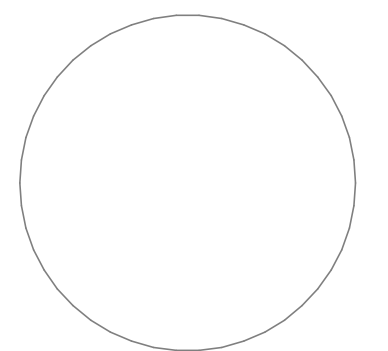
I hereby certify that the portion of the technical submission described below has been prepared by me or under my direct supervision and responsible charge. I am duly licensed under the laws of the state of Iowa.

ROGER NIKOLAS 18811  
Printed or Typed Name Iowa License No.Signature Date  
My license renewal date is: 12/31/2021

Pages or sheets covered by this seal: All: M sheets

## ELECTRICAL ENGINEER

I hereby certify that the portion of the technical submission described below has been prepared by me or under my direct supervision and responsible charge. I am duly licensed under the laws of the state of Iowa.

DARRELL BREN 15317  
Printed or Typed Name Iowa License No.Signature Date  
My license renewal date is: 12/31/2021

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## INDEX TO DRAWINGS

## SHEET INDEX - GENERAL

G-001 COVER SHEET

## SHEET INDEX - ARCHITECTURAL

A-101 DEMOLITION PLAN & FLOOR PLAN  
A-102 REFLECTED CEILING PLAN & ROOF PLAN  
A-201 EXTERIOR ELEVATIONS  
A-501 WALL SECTIONS, ENLARGED PLANS, INTERIOR ELEVATIONS, DETAILS, SCHEDULES  
A-502 DETAILS

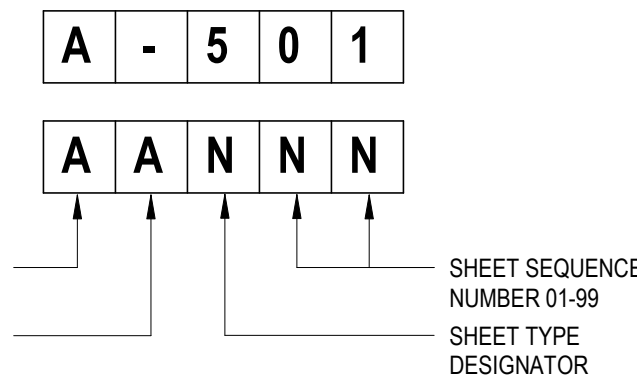
## SHEET INDEX - MECHANICAL

M-001 MECHANICAL TITLE SHEET  
M-101 PLUMBING & MECHANICAL PLAN  
M-501 MECHANICAL DETAILS  
ME601 MECHANICAL SCHEDULES

## SHEET INDEX - ELECTRICAL

E-001 ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES  
E-101 ELECTRICAL DEMOLITION PLAN  
E-102 LIGHTING PLAN AND POWER AND TECHNOLOGY PLAN  
E-501 ELECTRICAL DETAILS, RISERS, AND SCHEDULES

## SHEET IDENTIFICATION



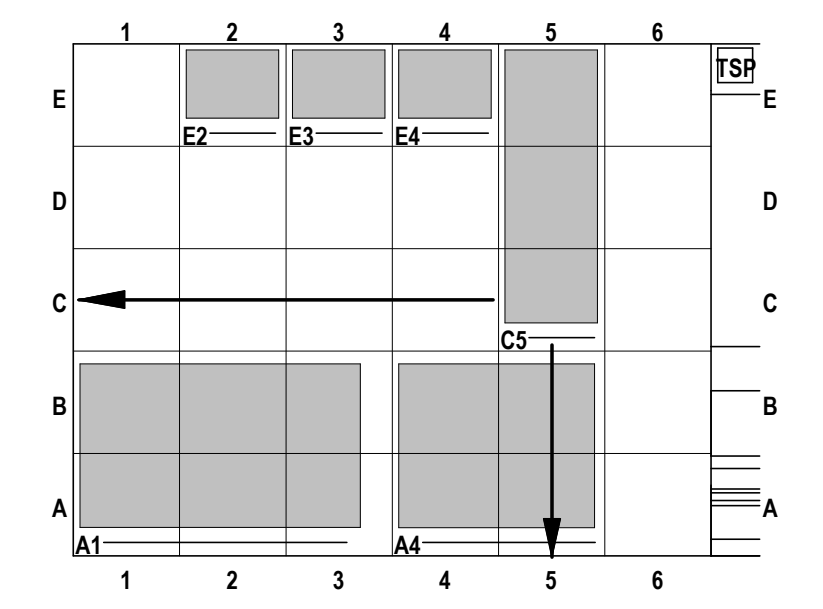
## DISCIPLINE CHARACTERS

G GENERAL  
H HAZARDOUS  
C CIVIL  
L LANDSCAPE  
A ARCHITECTURAL  
I INTERIOR  
P PLUMBING  
M MECHANICAL  
E ELECTRICAL  
T TELECOMMUNICATIONS  
R RESOURCE

## TYPICAL MODIFIER CHARACTERS

B SUBSTRUCTURES  
C CEILING/CHEMICALS  
D DEMOLITION  
E ELEMENTS  
F FRAMING/FURNISHINGS  
G GRAPHICS/GRADING  
H HVAC  
I INFORMATION/IMPROVEMENTS  
L LIGHTING  
N FINISHES  
P PLAN/PIPING/POWER/PAVING/PLANTING  
Q EQUIPMENT  
S SITE  
T TECHNOLOGY/TRANSPORTATION UTILITIES

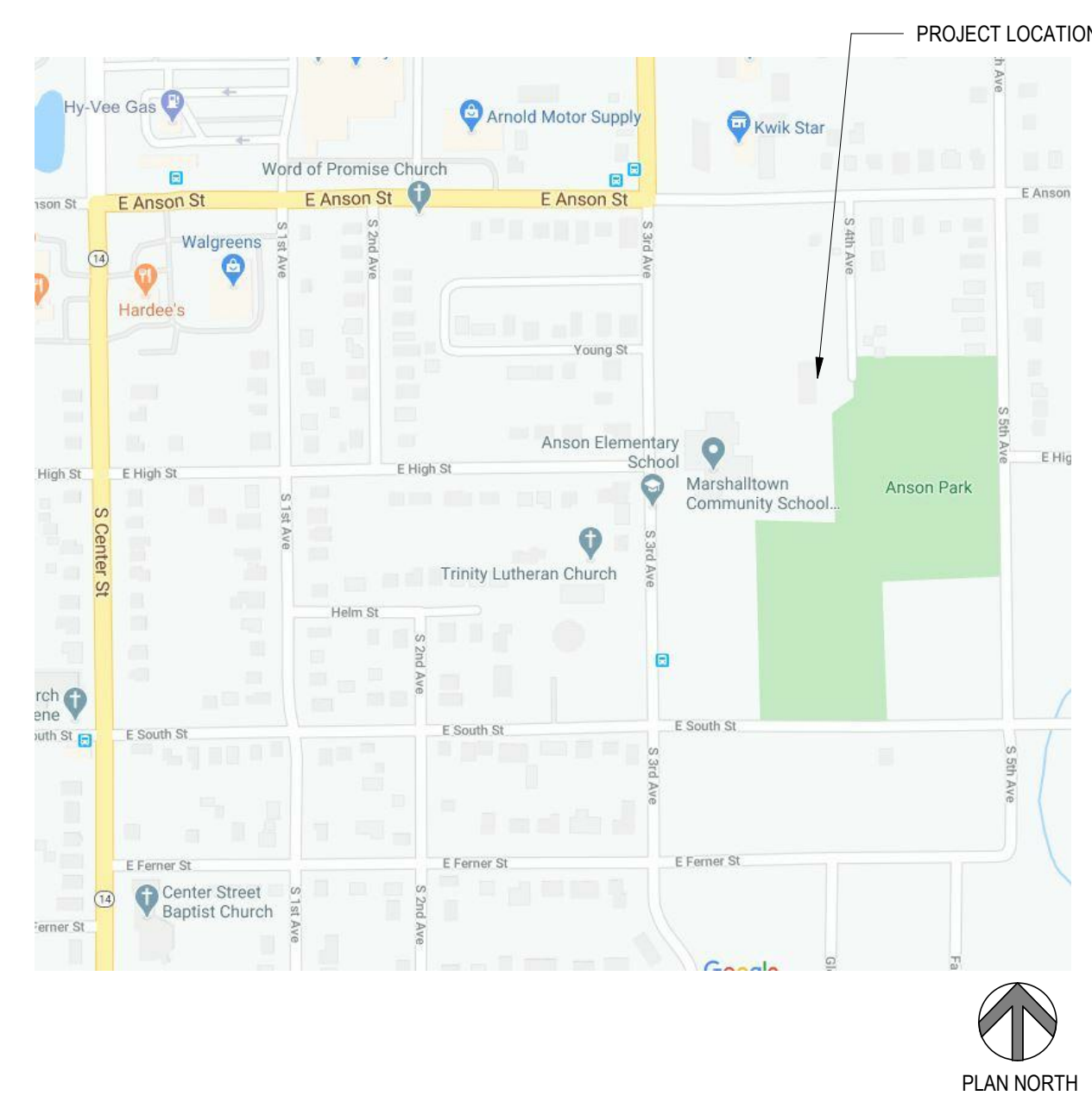
## SHEET TYPE DESIGNATORS

0 GENERAL (SYMBOLS LEGEND, NOTES, ETC)  
1 PLANS (HORIZONTAL VIEWS)  
2 ELEVATIONS (VERTICAL VIEWS)  
3 SECTIONS (SECTIONAL VIEWS)  
4 LARGE SCALE VIEWS  
5 DETAILS  
6 SCHEDULES AND DIAGRAMS  
7 USER DEFINED  
8 USER DEFINED  
9 3D REPRESENTATIONS (ISO, PERSP, PHOTOS)

## DESIGN TEAM

TITLE/DISCIPLINE	NAME/CONTACT	COMPANY	PHONE	E-MAIL
PROJECT MANAGER / ARCHITECT	JUSTIN SORENSEN	TSP, Inc.	507.208.8155	sorensenjt@teamtsp.com
MECHANICAL ENGINEER	ROGER NIKOLAS	TSP, Inc.	605.336.1160	nikolasro@teamtsp.com
ELECTRICAL ENGINEER	DARRELL BREN	TSP, Inc.	605.336.1160	brendl@teamtsp.com

## VICINITY MAP



## PROJECT

CITY OF  
MARSHALLTOWN  
ANSON PARK SHELTER  
RENOVATION  
#PRK20001

## MARSHALLTOWN, IOWA

## ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE	04/20/2021	DRAWN BY ---
PROJECT #	01190805	CHECKED BY ---

## SHEET TITLE

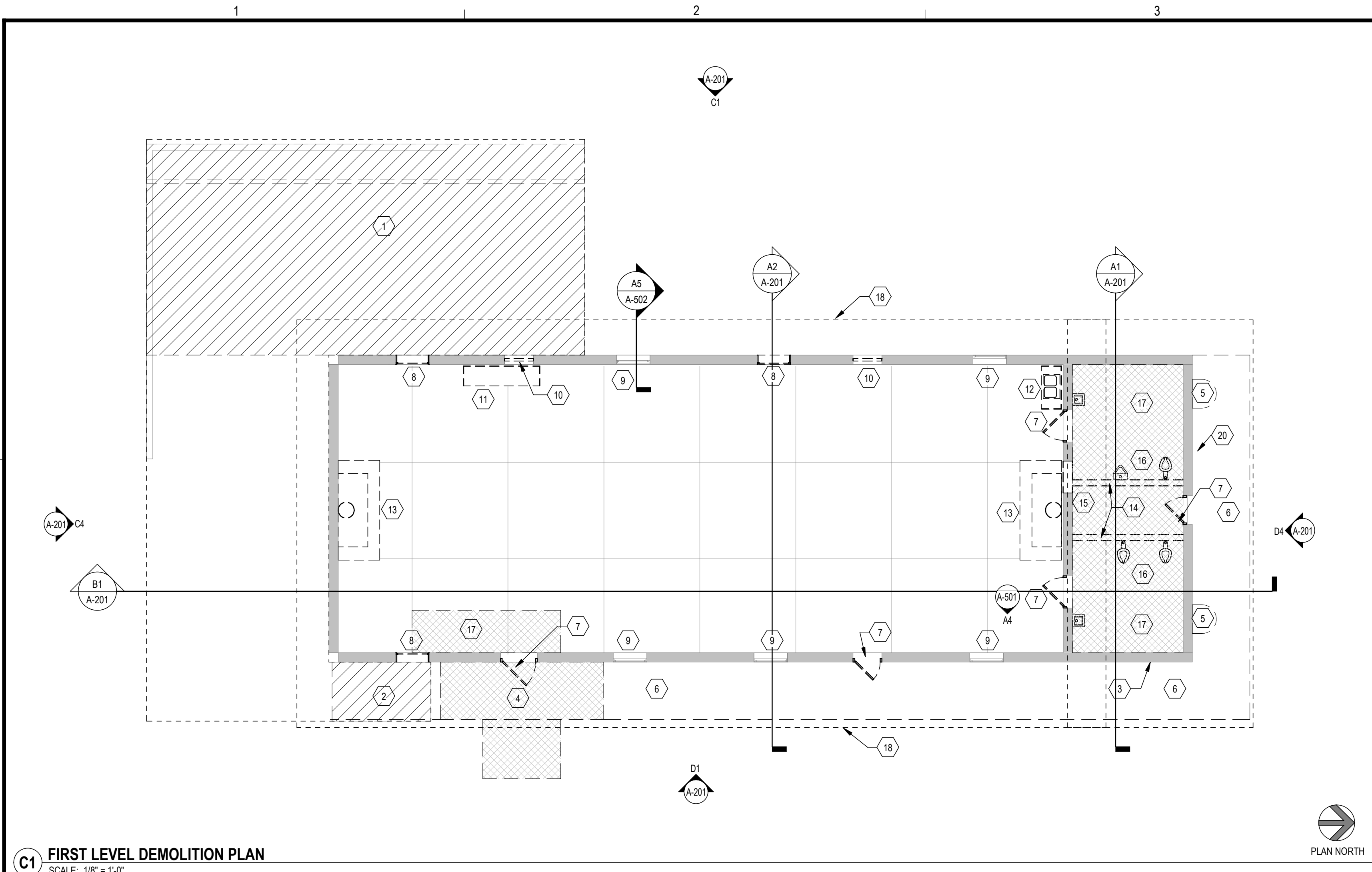
## COVER SHEET

## SHEET NUMBER

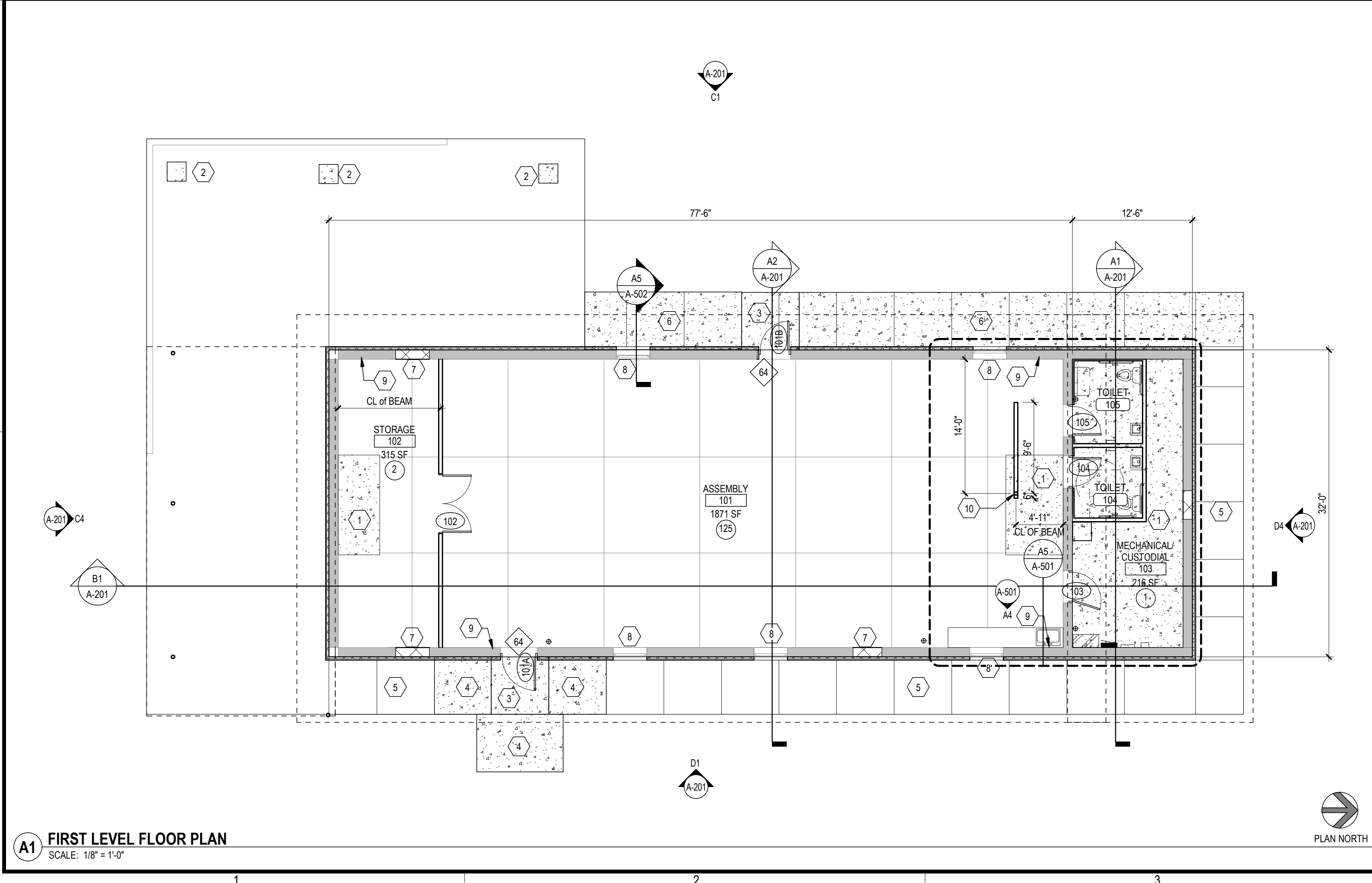
G-001



LISTED DRAWINGS SCALE(S) UNLESS REDUCED FROM ORIGINAL 24" x 36" FORMAT



**C1 FIRST LEVEL DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"



**A1 FIRST LEVEL FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

## SHEET GENERAL NOTES:

### DEMOLITION PLAN

- DEMOLITION PORTIONS OF THE PLANS ARE PROVIDED FOR THE CONVENIENCE OF THE BIDDING PROCESS AND ARE NOT MEANT TO BE ALL-INCLUSIVE OF THE FULL SCOPE OF THE DEMOLITION EFFORT. OTHER ELEMENTS WITHIN THE DOCUMENTS THAT REQUIRE THE REMOVAL OF EXISTING CONSTRUCTION IN ORDER TO INSTALL THE NEW SCHEDULED MATERIAL SHALL BE CONSIDERED A PART OF THE SCOPE OF THE WORK UNDER THIS CONTRACT.
- UNLESS NOTED OTHERWISE, EXISTING WALLS ARE MASONRY.
- G.C. SHALL COORDINATE DEMOLITION OPERATIONS WITH OTHER TRADES.
- AT THE TIME THEY PRESENT THEIR PROPOSAL TO THE PRIME BIDDER (GENERAL CONTRACTOR), EACH SUB-BIDDER (TRADE) SHALL PROVIDE A LIST OF EXISTING CONSTRUCTION ASSEMBLIES, INCLUDING SIZES AND LOCATIONS, THAT MUST BE CUT AND PATCHED TO FACILITATE THEIR WORK. THE GENERAL CONTRACTOR SHALL PROVIDE CUTTING AND PATCHING AS PER THE LISTS AND AS OTHERWISE DIRECTED ON THE DRAWINGS AND SPECIFICATIONS. OTHERWISE THE SUB-BIDDER ACCEPTS RESPONSIBILITY OF PATCHING.
- DEMOLITION OF PLUMBING FIXTURES AND MECHANICAL EQUIPMENT AND ASSOCIATED PIPING SHALL BE BY M.C. G.C. SHALL PROVIDE PATCH TO MATCH AS REQUIRED DUE TO MECHANICAL DEMOLITION OPERATIONS. PATCHING SHALL INCLUDE FINISH TO MATCH EXISTING WHERE NEW FINISH IS NOT OTHERWISE SCHEDULED. REFERENCE MECHANICAL DEMOLITION SHEETS.
- DEMOLITION OF ELECTRICAL FIXTURES AND EQUIPMENT AND ASSOCIATED CIRCUITING SHALL BE BY E.C. G.C. SHALL PROVIDE PATCH TO MATCH AS REQUIRED DUE TO ELECTRICAL DEMOLITION OPERATIONS. PATCHING SHALL INCLUDE FINISH TO MATCH EXISTING WHERE NEW FINISH IS NOT OTHERWISE SCHEDULED. REFERENCE ELECTRICAL DEMOLITION SHEETS.
- FOLLOWING SELECTIVE DEMOLITION, THE G.C. SHALL PREPARE ADJACENT SURFACES THAT REMAIN FOR INTEGRATION INTO THE NEW WORK AND PATCH BACK ADJACENT SURFACES WHERE IT APPLIES.

## KEY NOTES:

### DEMOLITION PLAN

- PROVIDE TEMPORARY SHORING AND DEMO CANOPY AS HATCHED AND ALL ASSOCIATED COLUMNS. SALVAGE EXISTING BEAM TO BE REINSTALLED AT NEW CANOPY EDGE.
- DEMO HATCHED PORTION OF EXISTING CANOPY.
- DEMO EXISTING SIDEWALK AS NEED TO INSTALL NEW ELECTRICAL SERVICE/METER AND GROUNDING.
- DEMO EXISTING SIDEWALKS AS NEED TO INSTALL NEW STOOP. DEMO BACK TO NEAREST CONTROL JOINT.
- DEMO EXISTING CONCRETE TOPPING RAMPS AND FORMER DOOR LOCATIONS. EXISTING SIDEWALK TO REMAIN.
- UNDER ALTERNATE #2 DEMO EXISTING SIDEWALKS ON THE NORTH AND EAST SIDES OF THE BUILDING.
- DEMO EXISTING DOOR AND FRAME.
- DEMO EXISTING WINDOW AND ALL ASSOCIATED TRIM.
- UNDER ALTERNATE #1 DEMO EXISTING WINDOW AND ALL ASSOCIATED TRIM.
- DEMO EXISTING EXHAUST FAN AND LOUVER.
- DEMO EXISTING WALL HUNG COUNTERTOP.
- DEMO EXISTING BASE CABINET, SINK, & WATER HEATER. REF MECHANICAL.
- DEMO EXISTING MASONRY FIREPLACE AND CHIMNEY UP THROUGH THE ROOF IN ENTIRETY. PREP FOR NEW CONCRETE SLAB ON GRADE.
- DEMO EXISTING CMU WALL.
- CUT NEW DOOR OPENING IN EXISTING CMU WALL, OVERCUT 8" EACH SIDE.
- DEMO EXISTING PLUMBING FIXTURES, PARTITIONS, AND ACCESSORIES.
- DEMO EXISTING SLAB ON GRADE AS NEEDED FOR NEW SUB SLAB PLUMBING ROUGH IN. REF MECHANICAL.
- AFTER DEMO OF EXISTING METAL FASCIA INSPECT WOOD FASCIA FOR ROT. INCLUDE 75 LF OF DEMO AND REPLACEMENT IN BASE BID. EXISTING CANOPY JOIST MAY BE SALVAGED FOR USE AS REPLACEMENT FASCIA BEAMS.

## SHEET GENERAL NOTES:

### FLOOR PLAN

- THE SET OF DOCUMENTS FOR THIS PROJECT INCLUDES DRAWINGS AS REPRESENTED HEREIN AND A PROJECT MANUAL EACH WITH EQUAL WEIGHT OF IMPORTANCE.
- PROVIDE BLOCKING AS REQUIRED FOR MOUNTING ALL ACCESSORIES, CASEWORK, HARDWARE, ETC.
- THE G.C. SHALL PROVIDE ALL CHASES, SLOTS, OPENINGS, ETC. AS REQUIRED FOR THE WORK OF ALL TRADES, AND SHALL PROVIDE PATCHING TO MATCH EXISTING ADJACENT CONSTRUCTION INCLUDING FINISHES. COORDINATE WITH ALL OTHER TRADES. NOTE THAT THIS SHALL INCLUDE EXISTING CONSTRUCTION WHERE ACCESS IS REQUIRED TO ACCOMPLISH THE WORK. NOTE THAT EACH TRADE SHALL PROVIDE THEIR OWN CORE DRILLING AS REQUIRED TO ACCOMPLISH THEIR WORK. CONTACT THE ARCHITECT FOR APPROVAL OF THE LOCATION OF HOLES CORED THROUGH STRUCTURAL ELEMENTS. DUCTS, PIPING, CABLING, ETC. SHALL BE APPROPRIATELY SEALED WITH REGARD TO FIRE/SMOKE RATED ASSEMBLIES AND/OR ACOUSTICS BY THE TRADE PROVIDING THEM. REFERENCE SPECIFICATION SECTION 01729 CUTTING AND PATCHING.
- SEAL VAPOR BARRIER AND/OR INFILTRATION BARRIER AT LAPS, PENETRATIONS, AND PERIMETER TO MAINTAIN THEIR FUNCTIONS AS BARRIERS.
- DIMENSIONS ARE TO FACE OF MASONRY, EDGE OF MASONRY OPENING, CENTERLINE OF METAL STUD WALL, CENTERLINE OF STUD WALL OPENING, OR FACE OF OTHER FINISHED SURFACES.
- ALL DIMENSIONS SHOULD BE VERIFIED WITHIN THE CONFINES OF EXTERIOR WALLS TO ENSURE ALIGNMENT AS INDICATED WITHIN THE PLAN. NOTIFY ARCHITECT IF ANY DISCREPANCIES OCCUR FROM THE ANTICIPATED WALL LAYOUT.
- PROVIDE APPROPRIATE METAL DRYWALL ACCESSORIES SUCH AS METAL CORNER BEAD AND "J" MOLD AT ALL GYPSUM BOARD EDGES & CORNERS AND WHERE GYPSUM BOARD ABUTS DISSIMILAR MATERIALS. PROVIDE SEALANT AS APPROPRIATE.
- DRYWALL CONTROL JOINTS SHALL BE INSTALLED AT BOTH SIDES OF ALL GYPSUM BOARD OPENINGS ON EACH SIDE OF THE WALL.
- ALL FLOORS SHALL BE TAPERED TO FLOOR DRAINS IN THE IMMEDIATE AREA ONLY EXCEPT WHEN SCREED LINES ARE INDICATED ON THE PLAN. TAPERED SLABS ON GRADE SHALL MAINTAIN THEIR FULL THICKNESS AT ALL POINTS.
- THE CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO ACCOMMODATE INSTALLATION OF EQUIPMENT AND DEVICES.
- SEAL VAPOR BARRIER AND/OR INFILTRATION BARRIER AT LAPS, PENETRATIONS, AND PERIMETER TO MAINTAIN THEIR FUNCTIONS AS BARRIERS.
- ALL H.M. AND ALUMINUM FRAMES SHALL HAVE RUBBER ROD AND FULL PERIMETER CAULK EACH SIDE. ALL HOLLOW METAL FRAMES SHALL HAVE BITUMINOUS COATING ON THE INSIDE. ALL HOLLOW METAL FRAMES SHALL BE GROUTED FULL AT MASONRY WALLS.
- NEW SIDEWALKS SHALL BE 4" THICK WITH 6x6 W1.4xW1.4 W.W.F. AND BROOM FINISH OVER 4" MIN GRANULAR FILL. LOCATE CONTROL JOINTS AT 6'-0" OC MAX. SIDEWALKS SHALL PITCH LONGITUDINALLY NO GREATER THAN 1 IN 20 NOR CROSS PITCH GREATER THAN 1 IN 50.

## KEY NOTES:

### FLOOR PLAN

- NEW CONCRETE SLAB ON GRADE.
- PATCH 4" CONCRETE SLAB ON GRADE AT REMOVED COLUMN LOCATIONS.
- NEW 6'-0" x 6'-0" CONCRETE STOOP. REFERENCE DETAILS.
- PATCH EXISTING SIDEWALKS BACK TO NEW STOOP.
- UNDER ALTERNATE #2 PROVIDE NEW 6'-0" WIDE SIDEWALKS ON NORTH AND EAST SIDES OF BUILDING.
- NEW 6'-0" WIDE SIDEWALKS ON WEST SIDE OF BUILDING CONNECTING EXISTING PATIO TO NORTH SIDEWALK.
- FILL ALL ABANDONED DOOR, WINDOW, EXHAUST FAN AND OTHER MISCELLANEOUS OPENINGS WITH 12" CMU TO MATCH EXISTING CONSTRUCTION.
- UNDER ALTERNATE #1 PROVIDE NEW DOUBLE HUNG FIBERGLASS WINDOW AND METAL SCREEN CUT AND REPOINT EXISTING MORTAR JOINTS IN EXISTING 12" CMU, INTERIOR AND EXTERIOR.
- PROVIDE 75'-0" OF TUCKPOINTING IN BASE BID.
- NEW 3" STEEL PIPE COLUMN. REF FOOTING DETAIL ##A-502.

## PROJECT ADDRESS:

917 S 4th AVE.  
MARSHALLTOWN, IA 50508

## GOVERNING CODES:

**BUILDING**  
INTERNATIONAL BUILDING CODE 2015 (IOWA)  
**ACCESSIBILITY**  
IAC - 681.302 / 2010 ADA STANDARDS (IOWA)  
**FIRE/LIFE SAFETY**  
NFPA LIFE SAFETY CODE 2012  
**MECHANICAL**  
INTERNATIONAL MECHANICAL CODE 2018 (IOWA)  
**PLUMBING**  
UNIFORM PLUMBING CODE 2018 & IAC 641-25 (IOWA)  
**ENERGY**  
INTERNATIONAL ENERGY CODE 2012 (IOWA)  
**ELECTRICAL**  
NATIONAL ELECTRICAL CODE 2020 (IOWA)

## PROJECT SUMMARY

RENOVATION OF THE EXISTING SHELTER AT ANSON PARK, INCLUDING BUT NOT LIMITED TO ROOF REPLACEMENT, NEW FACADE, NEW ELECTRICAL & LIGHTING SYSTEMS, NEW MECHANICAL AND PLUMBING, AND NEW INTERIOR FINISHES.

## CODE SUMMARY

### CHAPTER 3

Occupancy Classification: A-3 ASSEMBLY (COMMUNITY HALL)

### CHAPTER 5

Allowable Height: IBC Table 504.3 - 40 ft  
IBC Table 504.4 - 1 stories  
Actual Height: Total Building Height = 13'-0"  
= 1 Stories

Allowable Area (per level): Table 506.2 = 6,000 sf  
Frontage Increase (506.3): not needed  
Actual Areas: 2,640 sf

Occupancy Separation (table 508.4): none

### CHAPTER 6

Type of Construction: Type V-B

Fire resistive Rating Requirements (Table 601):

Building Element	Rating (in hours)
Structural Frame	0
Exterior Bearing Walls (per table 602)	0
Interior Bearing Walls	0
Exterior Non Bearing Walls (per table 602)	0
Interior Non Bearing Walls	0
Floor Construction	0
Roof Construction	0

### CHAPTER 9

Non Sprinklered

Fire Areas (Section 903.2.3): Fire areas less than 12,000 sf

### CHAPTER 10

Egress Width (Section 1005): Stairs = Occupancy x 0.3  
Other = Occupancy x 0.2

Travel Distance (Table 1017.2): A-3 250 Feet  
Common Path Travel Distance (Table 1006.3): 75' - 0'

Corridors (Table 1020.1): A-3 occupancy without sprinkler system require 1 hr corridors

## PLUMBING FIXTURE REQUIREMENTS

### CHAPTER 29

IBC Table 2902.1 - A-3 - W.C. = M-1/125, W-1/65; LAV=1/200

MEN = 64occ.	W.C.	LAV
	W.C.(1/125) = 0.51	LAV(1/200) = 0.32
WOMEN= 64occ.	W.C.(1/65) = 0.88	LAV(1/200) = 0.32
TOTALS:	W.C.= 1.49	LAV = 0.64

W.C.	Actual	LAV	Service Sink
Gender Neutral - 2		Gender Neutral - 2	1

PROJECT

**CITY OF  
MARSHALLTOWN  
ANSON PARK SHELTER  
RENOVATION  
#PRK20001**

MARSHALLTOWN, IOWA

ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE	04/20/2021	DRAWN BY JWS
PROJECT #	01190805	CHECKED BY JWS

SHEET TITLE

**DEMOLITION PLAN &  
FLOOR PLAN**

SHEET NUMBER

**A-101**

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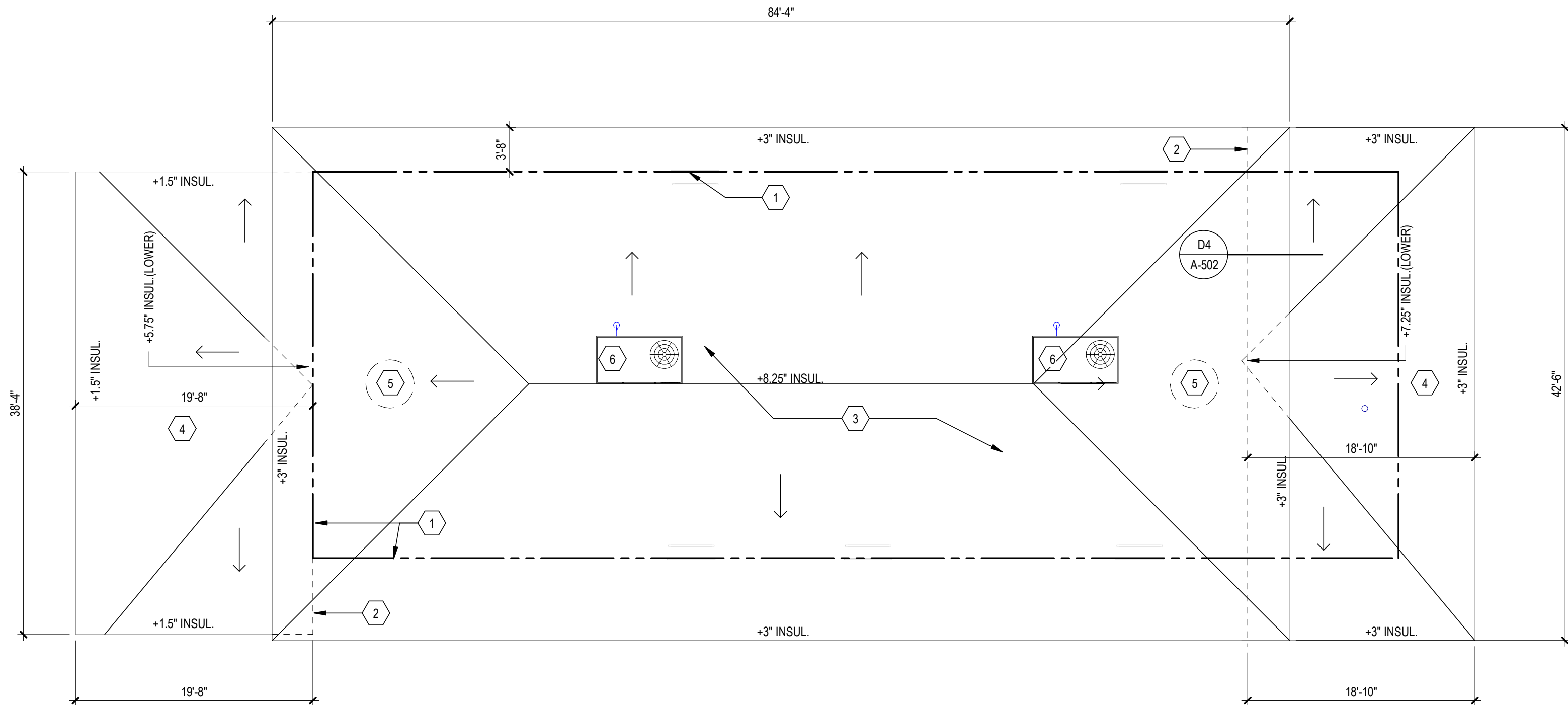
REBID DOCUMENTS



LISTED DRAWINGS SCALE(S) UNLESS REDUCED FROM ORIGINAL 24" x 36" FORMAT

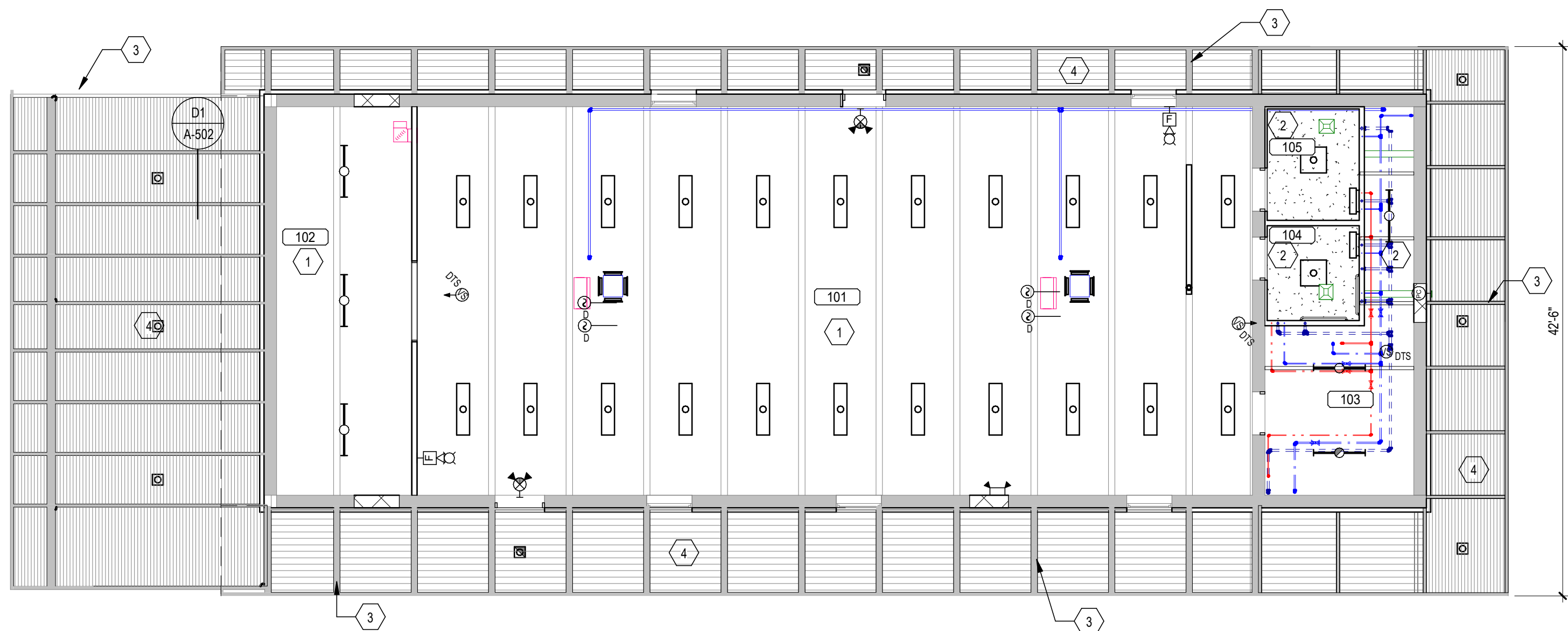
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4/19/2021 1:57:10 PM

C1 ROOF PLAN  
SCALE: 1/8" = 1'-0"



PLAN NORTH

A1 FIRST LEVEL CEILING PLAN  
SCALE: 1/8" = 1'-0"



PLAN NORTH

SHEET GENERAL NOTES:

ROOF PLAN

- A. THE SET OF DOCUMENTS FOR THIS PROJECT INCLUDES DRAWINGS AS REPRESENTED HEREIN AND A PROJECT MANUAL EACH WITH EQUAL WEIGHT OF IMPORTANCE.
- B. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS.
- C. THE CONTRACTOR SHALL FIELD VERIFY ALL CURB AND ROOF PENETRATION LOCATIONS AND QUANTITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING SAME AT NO ADDITIONAL COST TO THE OWNER. UNLESS NOTE OR DETAILED OTHERWISE, FLASH ACCORDING TO MANUFACTURER'S STANDARD DETAILS.
- D. WHERE INSULATION THICKNESS NECESSITATES IT, EXTEND EXISTING ROOF CURBS WITH TREATED WOOD BLOCKING. WHERE APPLICABLE, ALSO PROVIDE MECHANICAL AND ELECTRICAL EXTENSIONS.
- E. THE CONTRACTOR SHALL TAKE CARE NOT TO OVERLOAD THE ROOF DECK WITH STOCKPILED MATERIALS.
- F. ALL WOOD CURBS AND BLOCKING SHALL BE PRESSURE TREATED AS SPECIFIED, UNLESS NOTED OTHERWISE, ANCHOR ALL WOOD BLOCKING WITH 1/4" TAPCON SCREWS 12" O.C. STAGGERED.
- G. THE CONTRACTOR IS RESPONSIBLE FOR DAILY WATER CUT-OFF AND TEMPORARY BALLAST TO SEAL UNFINISHED WORK IN THE EVENT OF INCLEMENT WEATHER.
- H. THE CONTRACTOR SHALL COMPLETELY SEAL THE VAPOR BARRIER AT SIDE AND END LAPS, ROOF PERIMETERS, AND ROOF PENETRATIONS.
- I. SEPARATE LAYERS OF INSULATION SHALL BE LAID WITH JOINTS STAGGERED.
- J. SEALANTS AT CLAMPING BARS AND OTHER FLASHINGS RELATED TO THE ROOF SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR INSTALLING THE ROOF SYSTEM. SEALANTS AND FLASHINGS SHALL BE APPROVED BY THE ROOF MEMBRANE MANUFACTURER.
- K. CONDENSING UNITS (CU) BY M.C. SHALL BE SET ON 6x6 REDWOOD SKIDS BY M.C. G.C. SHALL PROVIDE STRIPS OF WALKWAY PAD ADHERED TO BOTTOM OF SKIDS.
- L. M.C. SHALL PROVIDE PREFABRICATED ROOF CURBS FOR MECHANICAL ROOF PENETRATIONS. G.C. SHALL INSTALL AND FLASH.

KEY NOTES:

ROOF PLAN

1. PERIMETER OF BUILDING BELOW.
2. EDGE OF CANOPY BELOW.
3. UPPER ROOF: REMOVE EXISTING ROCK BALLAST, EPDM, INSULATION, ALL METAL ROOF EDGE AND FASCIA. IF ORIGINAL 'BUR' REMAINS, REMOVE LOOSE GRAVEL.
4. LOWER ROOF: REMOVE ALL ROOF EDGE AND FASCIA, REMOVE ALL LOOSE GRAVEL FROM EXISTING 'BUR'.
5. DEMO EXISTING BRICK CHIMNEY AND PATCH HOLE WITH NEW WOOD DECKING.
6. ALTERNATE #3, NEW ROOFTOP MECHANICAL UNIT.

SHEET GENERAL NOTES:

CEILING PLAN

- A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS WHICH ARE TO MATCH EXISTING CONSTRUCTION. CONTACT A/E WITH DISCREPANCIES.
- B. UNLESS NOTED OR DETAILED OTHERWISE, SUSPENDED DRYWALL SYSTEM SHALL INCORPORATE CEILING SUSPENSION SYSTEM (DRYWALL) AND 5/8" GYPSUM BOARD FINISHED AND PAINTED AS SPECIFIED, INCLUDING ALL APPROPRIATE ACCESSORIES, CONTROL JOINTS, CORNER BEADS, & MOLDINGS.
- C. SEE ALSO MECHANICAL & ELECTRICAL DRAWINGS FOR OTHER CEILING PENETRATIONS. FINAL LOCATIONS OF ALL CEILING PENETRATIONS SHALL BE COORDINATED BY THE GENERAL CONTRACTOR IN THE FIELD.
- D. ALL SUSPENDED CEILING SYSTEMS SHALL BE ATTACHED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS TO STRUCTURAL FRAMING AND IN ABSENCE OF SAME TO SUB-FRAMING PROVIDED BY THE CONTRACTOR AND ATTACHED TO THE STRUCTURAL FRAME.
- E. COORDINATE AND SCHEDULE ABOVE CEILING WORK BY OWNER OR BY OTHERS WITH CEILING INSTALLATION.
- F. LOCATIONS OF OCCUPANCY SENSORS ARE NOT SHOWN. CONTRACTOR SHALL COORDINATE THEIR LOCATIONS IN COMPLIANCE WITH ELECTRICAL SPECIFICATIONS AND DRAWINGS.
- G. ALL CEILING MOUNTED ITEMS SUCH AS LIGHT FIXTURES, GRILLES, DIFFUSERS, SPEAKERS, EXIT LIGHTS ETC, SHALL BE LOCATED IN THE CENTER OF ACT/ACB PANELS, GYP BD SOFFITS AND/OR PLASTER SOFFIT BAYS, UNLESS NOTED OTHERWISE. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.

KEY NOTES:

CEILING PLAN

1. INTERIOR PREP AND PAINTING BY OWNER.
2. NEW GYPSUM BOARD CEILING - PAINTED BY OWNER.
3. PREP AND REPAINT ALL EXISTING EXTERIOR WOOD BEAMS AND STEEL COLUMNS. COLORS TO BE SELECTED POST BID.
4. NEW VENTED METAL SOFFIT PANELS, REFERENCE SPECIFICATION & DETAILS.

PROJECT

CITY OF  
MARSHALLTOWN  
ANSON PARK SHELTER  
RENOVATION  
#PRK20001

MARSHALLTOWN, IOWA

ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE	DRAWN BY	
04/20/2021	JWS	
PROJECT #	CHECKED BY	
01190805	JWS	

SHEET TITLE

REFLECTED CEILING  
PLAN & ROOF PLAN

SHEET NUMBER

A-102

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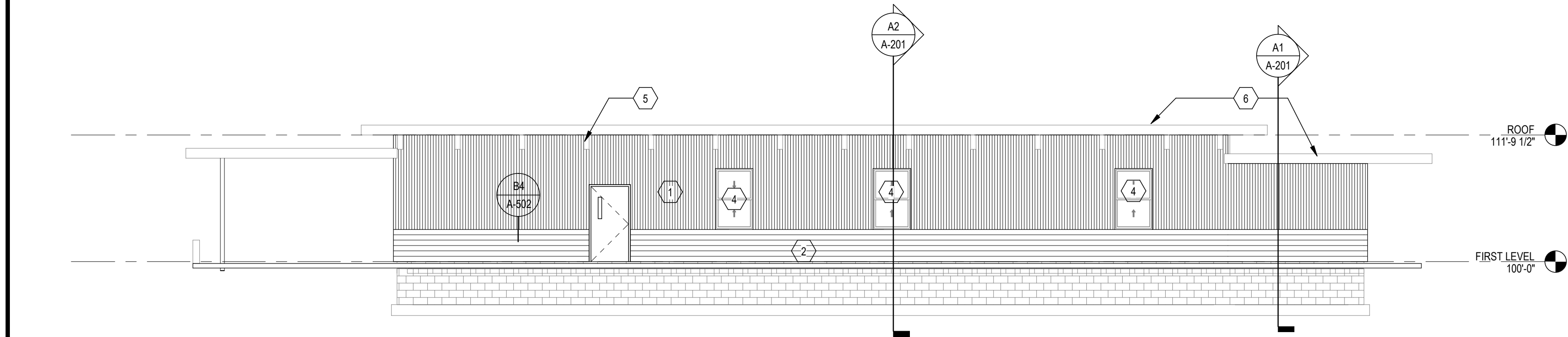
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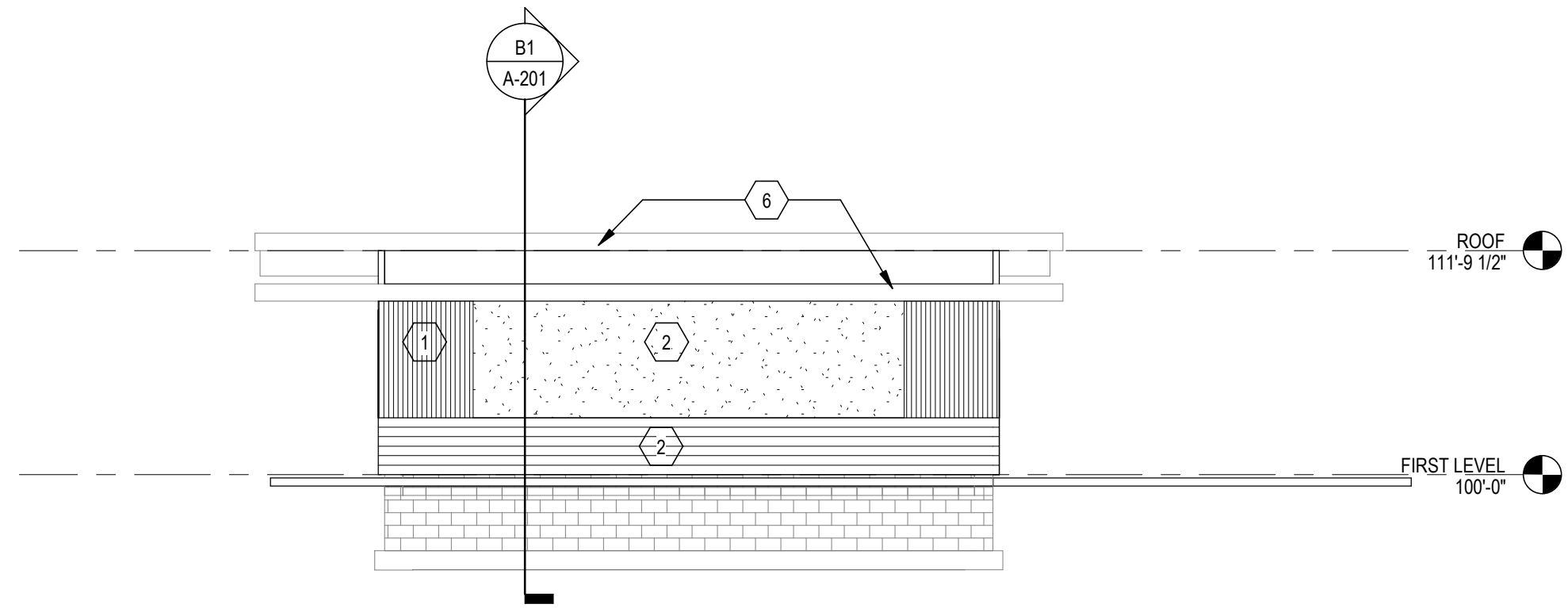
CONSULTANTS

LISTED DRAWINGS SCALE(S) UNLESS REDUCED FROM ORIGINAL 24" x 36" FORMAT

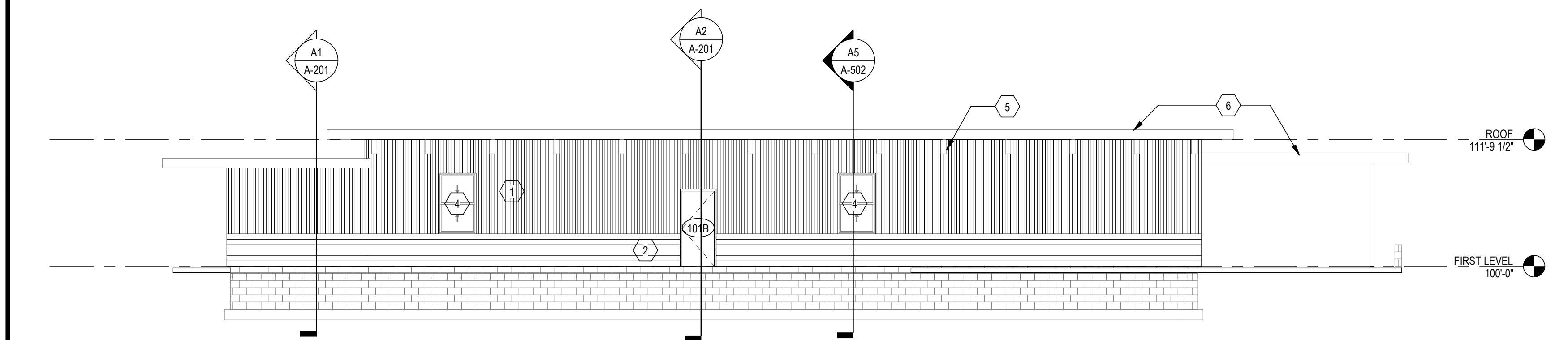
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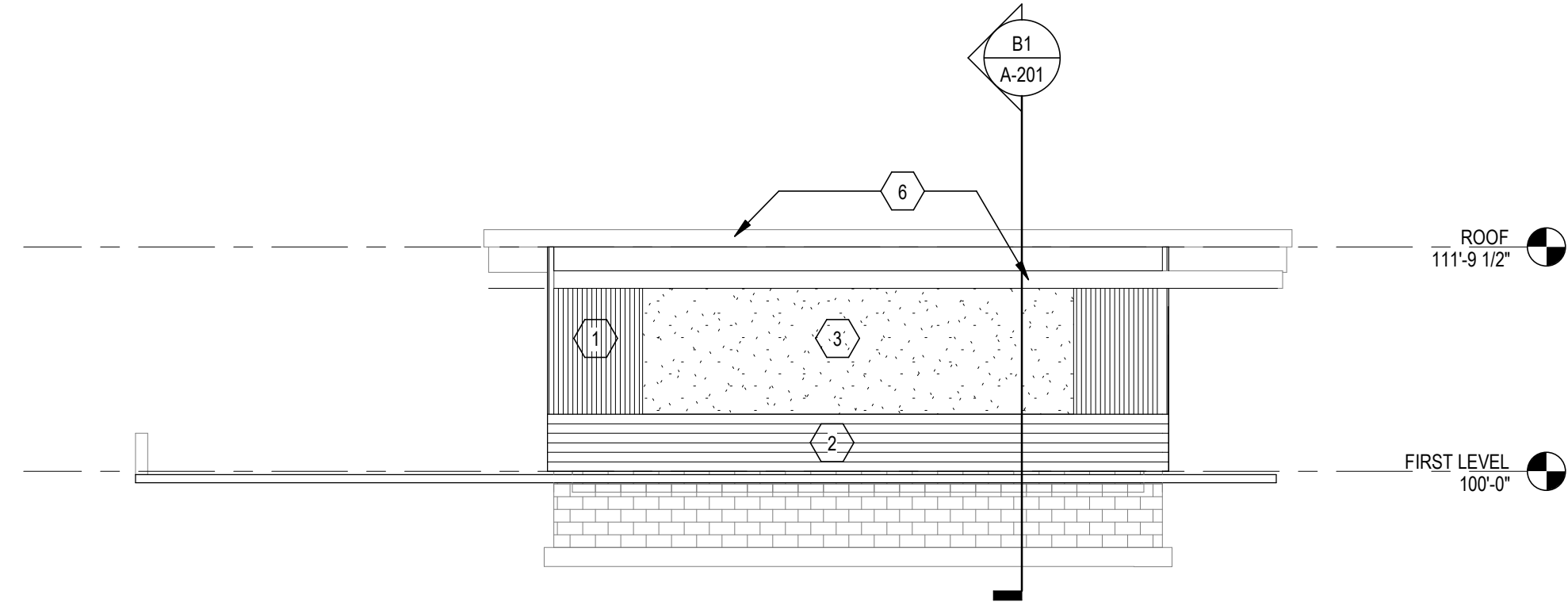
D1 EAST ELEVATION  
SCALE: 1/8" = 1'-0"



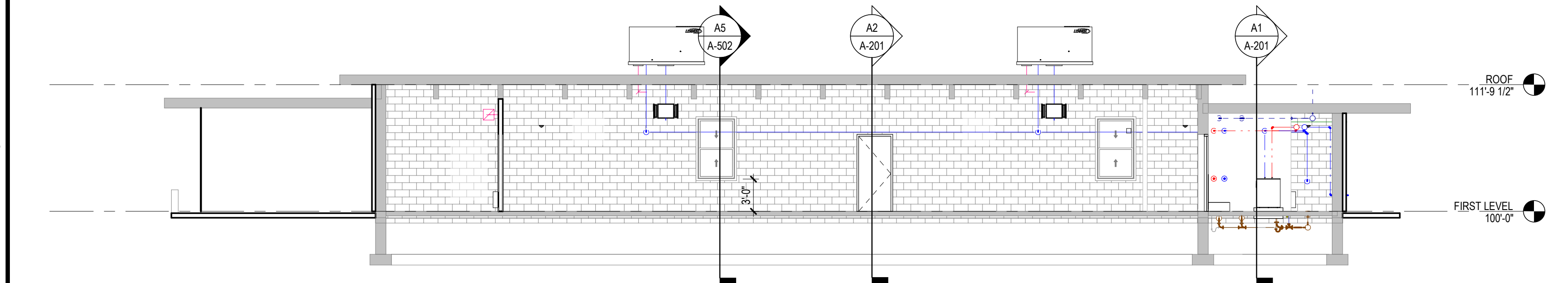
D4 NORTH ELEVATION  
SCALE: 1/8" = 1'-0"



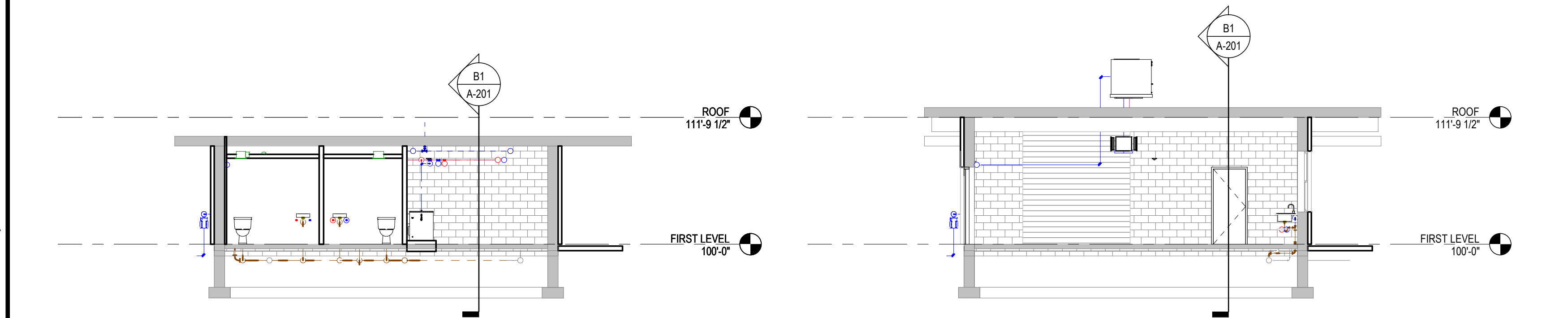
C1 WEST ELEVATION  
SCALE: 1/8" = 1'-0"



C4 SOUTH ELEVATION  
SCALE: 1/8" = 1'-0"



B1 BUILDING SECTION - N/S  
SCALE: 1/8" = 1'-0"



A1 BUILDING SECTION - E/W @ RESTROOMS  
SCALE: 1/8" = 1'-0"

A2 BUILDING SECTION - E/W @ COMMUNITY HALL  
SCALE: 1/8" = 1'-0"

SHEET GENERAL NOTES: EXTERIOR ELEVATIONS

- A. APPLY SEALANT AND BACKER ROD TO ALL JOINTS BETWEEN DISSIMILAR MATERIALS.
- B. ALL SURFACES DAMAGED DURING DEMOLITION SHALL BE REPAIRED FOR APPLICATION OF NEW FINISHES OR PATCHED TO MATCH EXISTING.
- C. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS WHICH ARE TO MATCH EXISTING CONSTRUCTION. CONTACT A/E WITH DISCREPANCIES.

KEY NOTES: EXTERIOR ELEVATIONS

1. VERTICAL RIB EXPOSED FASTENER METAL WALL PANELS. (E2)
2. REAR-VENTED WOOD FACADE SYSTE. (E1)  
A. UNDER ALTERNATE #4 PROVIDE STAINED CEDAR DECKING IN LIEU OF COMPOSIT DECKING SYSTEM.
3. DIRECT APPLIED FINISH SYSTEM (STUCCO) (E3)
4. UNDER ALTERNATE #1 PROVIDE NEW FIBERGLASS WINDOWS WITH STEEL SECURITY SCREENS.
5. REPAINT ALL EXPOSED WOOD BEAMS & BACKSIDE OF WOOD FASCIA
6. NEW PREFINISHED METAL ROOF EDGE AND FASCIA

NOTE: NOT ALL KEYNOTES MAY BE USED ON EACH PLAN

PROJECT

CITY OF  
MARSHALLTOWN  
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RENOVATION  
#PRK20001

MARSHALLTOWN, IOWA

ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE	04/20/2021	DRAWN BY JWS
PROJECT #	01190805	CHECKED BY JWS

SHEET TITLE

EXTERIOR ELEVATIONS

SHEET NUMBER

A-201

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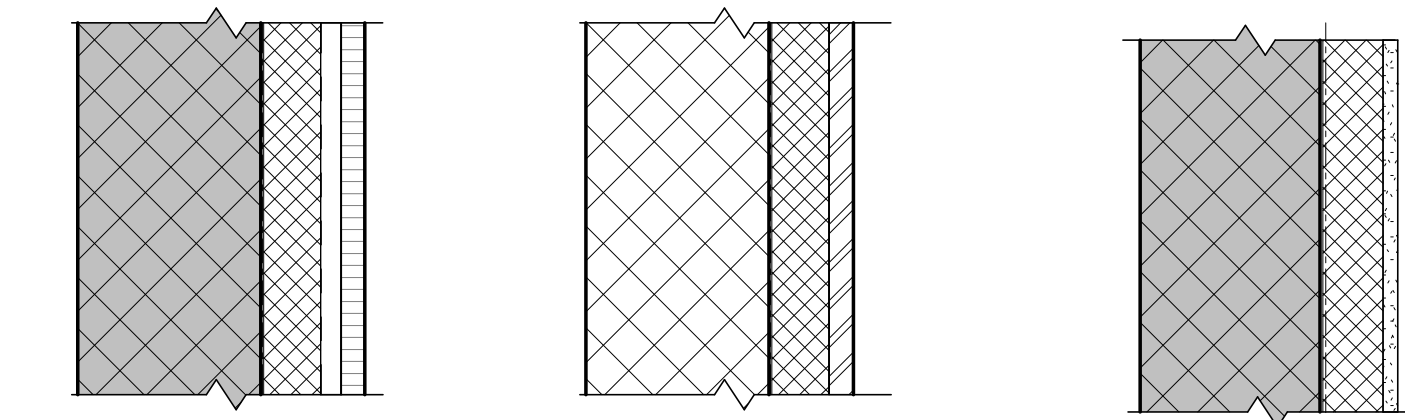
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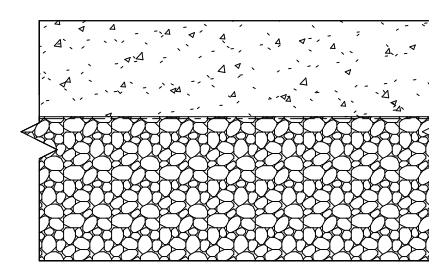


<b>E1</b>	EXTERIOR WALL CMU WITH WOOD SIDING
<b>E2</b>	EXTERIOR WALL CMU WITH METAL PANELS
<b>E3</b>	EXTERIOR WALL CMU WITH EIFS

**WALL ASSEMBLY**  
- EXISTING CMU  
- NEW FLUID AIR/VAPOR BARRIER  
- 2 1/2" RIGID INSULATION  
- Z FURRING -HORIZONTAL @24" OC  
- 7/8" HAT CHANNELS  
- WOOD SIDING

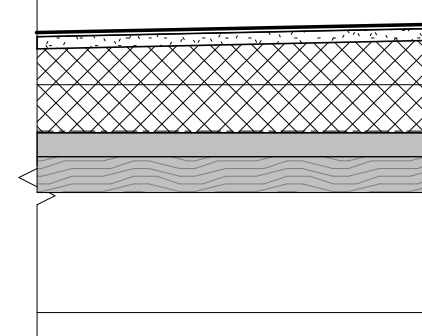
**WALL ASSEMBLY**  
- EXISTING CMU  
- NEW FLUID AIR/VAPOR BARRIER  
- 2 1/2" RIGID INSULATION  
- Z FURRING -HORIZONTAL @24" OC  
- MTL WALL PANELS

**WALL ASSEMBLY**  
- EXISTING CMU  
- NEW FLUID AIR/VAPOR BARRIER  
- 2 1/2" RIGID INSULATION  
- Z FURRING -HORIZONTAL @24" OC  
- 5/8" GYPSUM SHEATHING  
- STUCCO FINISH -SMOOTH



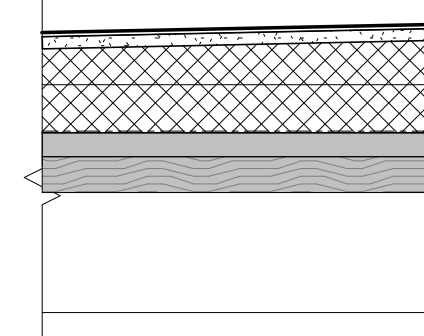
<b>F1</b>	FLOOR CONSTRUCTION
-----------	--------------------

**FLOOR ASSEMBLY:**  
- 4" REINFORCED CONCRETE SLAB  
- CLASS 1 VAPOR BARRIER  
- DRAINAGE FILL



<b>R1</b>	ROOF CONSTRUCTION
-----------	-------------------

**ROOF (FUTURE FLOOR) ASSEMBLY:**  
- ADHERED TPO ROOFING MEMBRANE  
- 1/2" COVER BOARD  
- TAPERED POLYISO ROOF INSULATION (MIN R-30)  
- 1" INSUL. BUR (EXISTING)  
- WOOD DECK (EXISTING)  
- WOOD BEAMS (EXISTING)



<b>R2</b>	ROOF CONSTRUCTION
-----------	-------------------

**ROOF (FUTURE FLOOR) ASSEMBLY:**  
- ADHERED TPO ROOFING MEMBRANE  
- 1/2" COVER BOARD  
- TAPERED POLYISO ROOF INSULATION (MIN 1 1/2" @ PERIMETER)  
- 1" INSUL. BUR (EXISTING)  
- WOOD DECK (EXISTING)  
- WOOD BEAMS (EXISTING)

#### LEGEND - CONSTRUCTION TYPES1

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

#### ROOM FINISH SCHEDULE - BASIC

ROOM #	ROOM NAME	FLOOR	BASE	CEILING	WALL	REMARKS
101	ASSEMBLY	SCONC	VB	PT	PT	1, 2
102	STORAGE	SCONC	VB	PT	PT	1, 2
103	MECHANICAL/ CUSTODIAL	SCONC	-	PT	PT	1
104	TOILET	SCONC	-	FRP	FRP	
105	TOILET	SCONC	-	FRP	FRP	

#### ROOM FINISH SCHEDULE REMARKS

- INTERIOR PAINTING BY OWNER
- SEAL NEW CONCRERE ONLY

#### TYPE A - PARTITION SCHEDULE

TYPE	STUD SIZE	Comments
A10	1 1/2"	2x4 WD STUD SLEEPERS W/ FRP ONE SIDE
A30	3 5/8"	2x4 WD STUD W/ 5/8" GYP BOTH SIDES
A31	3 5/8"	2x4 WD STUD W/ FRP BOTH SIDES, BATT INSULATION
A32	3 5/8"	2x4 WD STUD W/ 1x6" WD SIDING ALL SIDES

#### DOOR SCHEDULE

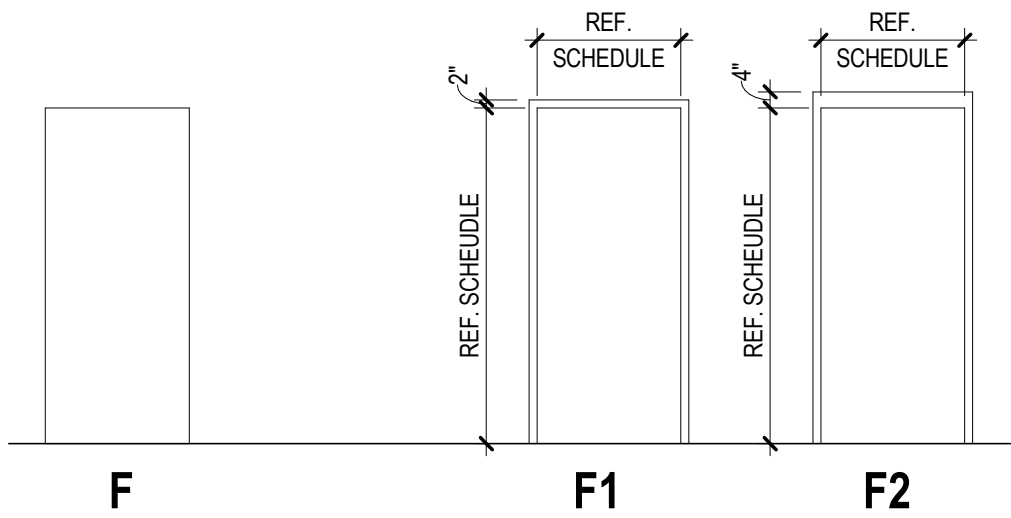
MARK	DOOR			FRAME		RATING	HDWR	REMARKS
	SIZE	HEIGHT	TYPE	MATERIAL	MATERIAL			
101A	3'-6"	7'-0"	F	IHM	F2	HM	1	1,2
101B	3'-0"	7'-0"	F	IHM	F2	HM	1	1,2
102	6'-0"	7'-0"	F	HM	F1	HM	3	
103	3'-0"	7'-0"	F	HM	F2	HM	4	1
104	3'-0"	7'-0"	F	HM	F2	HM	4	1
105	3'-0"	7'-0"	F	HM	F2	HM	2	1

#### DOOR SCHEDULE REMARKS

- NEW HOLLOW METAL FRAME IN EXISTING CMU, MATCH HEAD TO COURSING.
- THERMALLY BROKEN HOLLOW METAL FRAME.

#### DOOR SCHEDULE ABBREVIATIONS

HM HOLLOW METAL  
IHM INSULATED HOLLOW METAL



#### DOOR & FRAME TYPES

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

#### B1 DOOR HEAD @ NEW OPENING

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



#### B2 DOOR JAMB @ NEW OPENING

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



#### A1 STOOP DETAIL

SCALE: 1" = 1'-0"



#### A3 COUNTER SECTION

SCALE: 1" = 1'-0"



#### A4 CASEWORK ELEVATION

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



#### A5 FIRST LEVEL FLOOR PLAN - Callout 1

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



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RENOVATION  
#PRK20001

MARSHALLTOWN, IOWA

ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE	04/20/2021	DRAWN BY JWS
PROJECT #	01190805	CHECKED BY JWS

SHEET TITLE

WALL SECTIONS,  
ENLARGED PLANS,  
INTERIOR ELEVATIONS,  
DETAILS, SCHEDULES

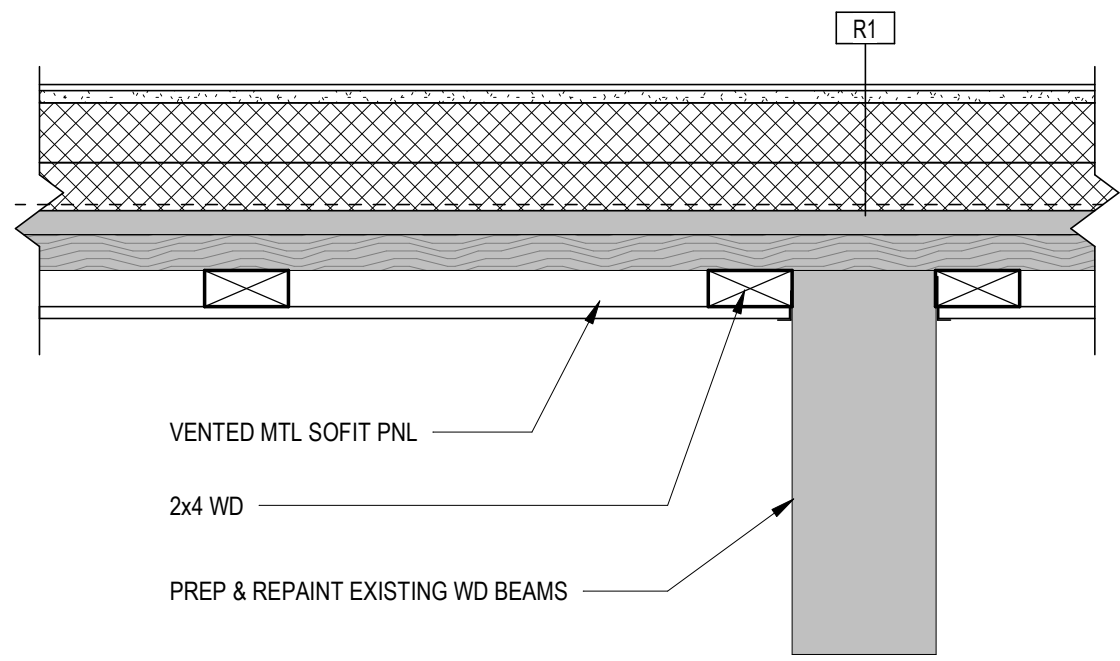
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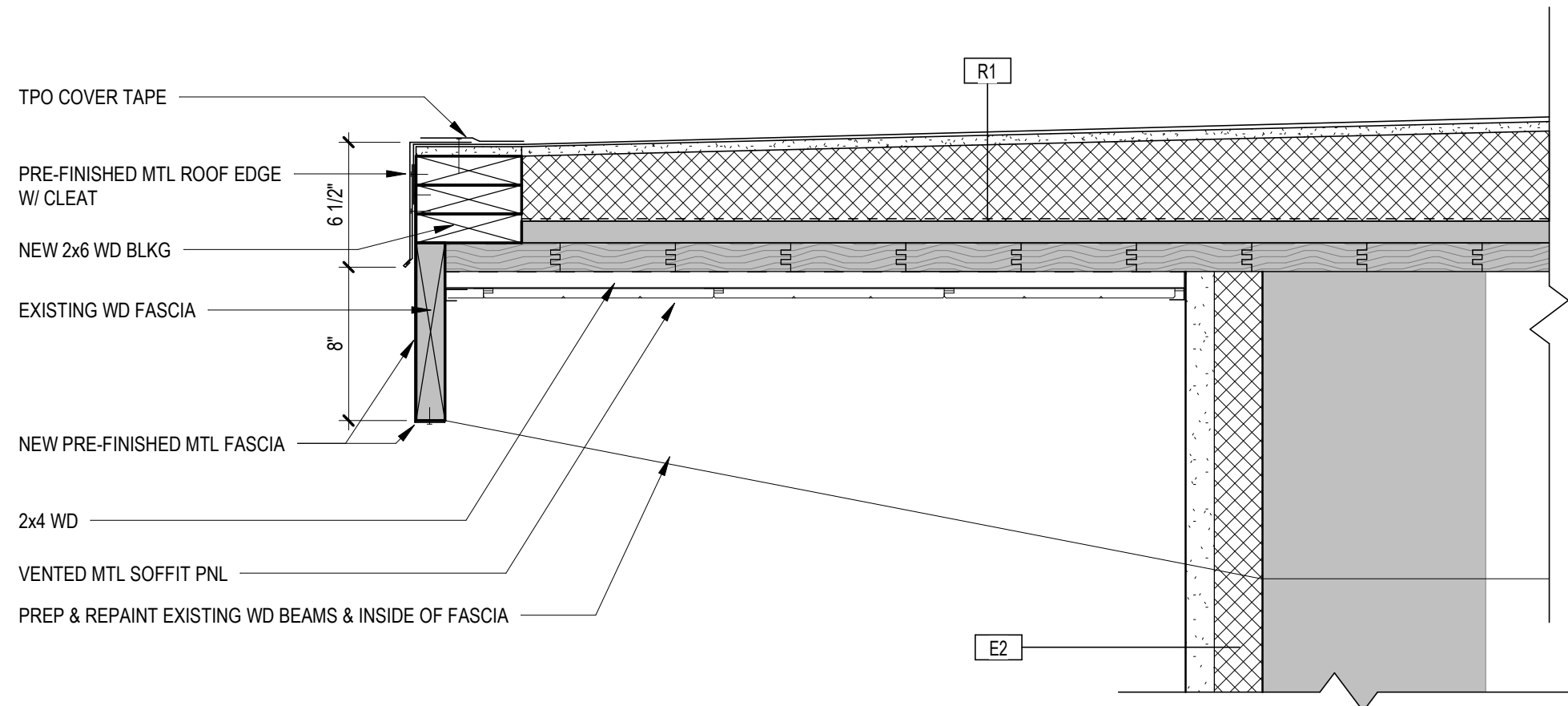
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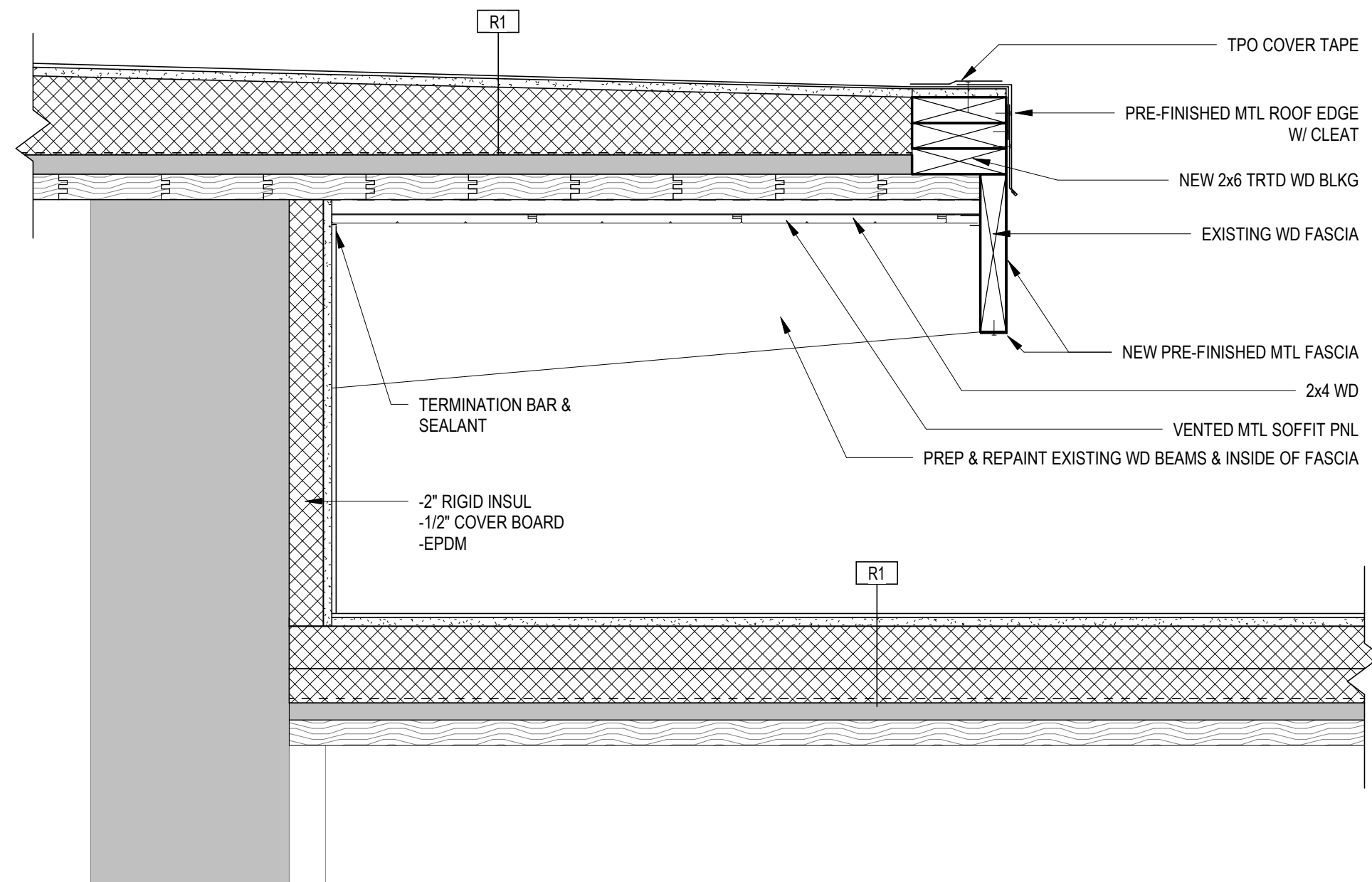
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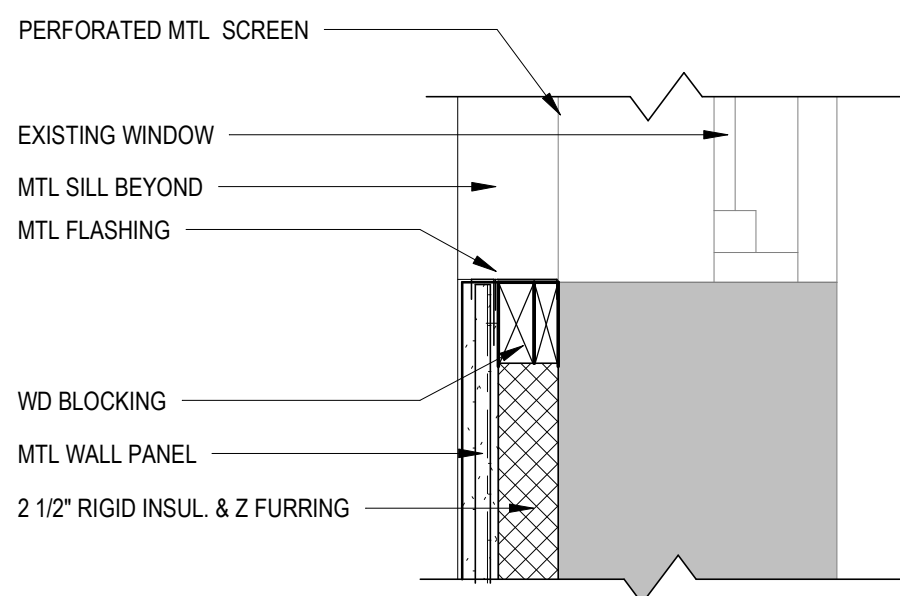
**D1 CAONOPY CROSS SETION DETAIL**  
SCALE: 1 1/2" = 1'-0"



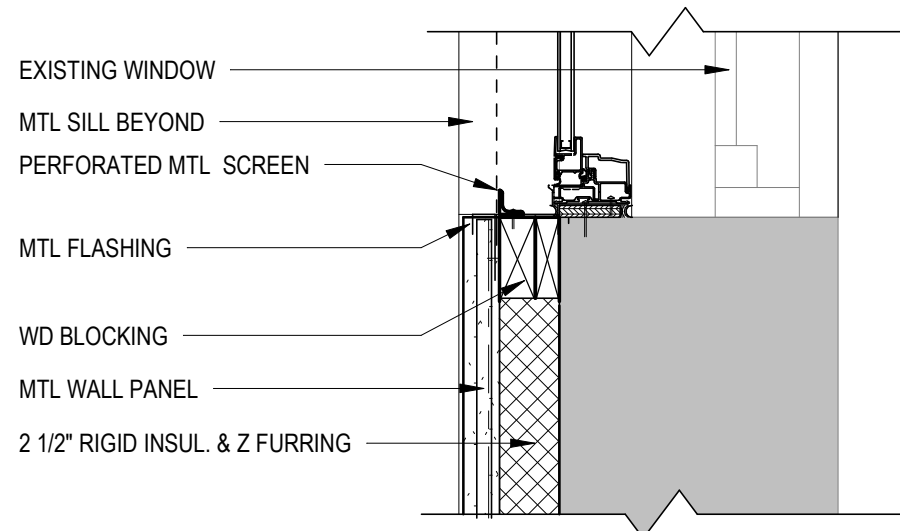
**D2 CANOPY DETAIL**  
SCALE: 1 1/2" = 1'-0"



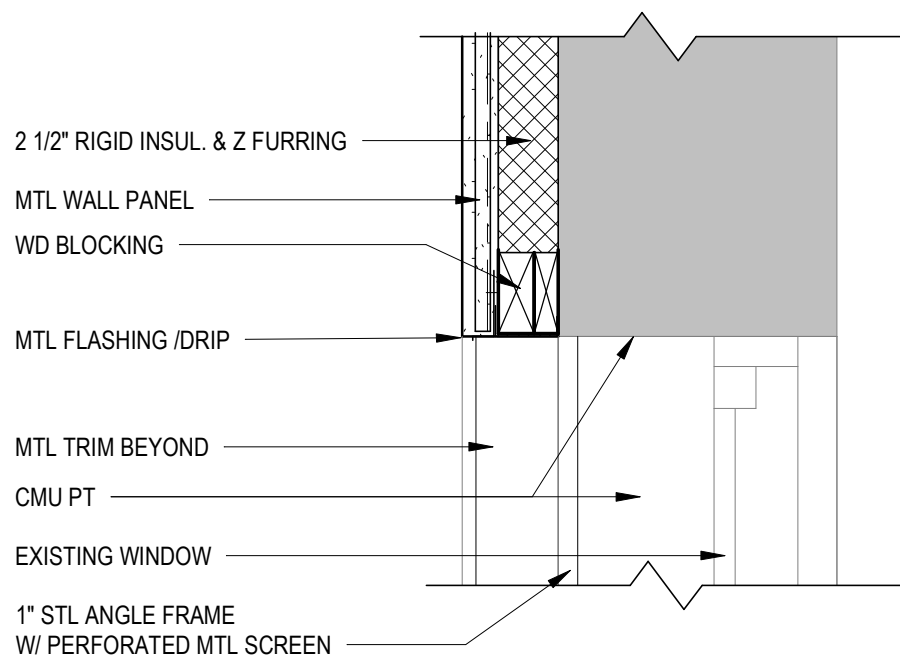
**D4 CANOPY DETAIL OVER LOWER ROOF**  
SCALE: 1 1/2" = 1'-0"



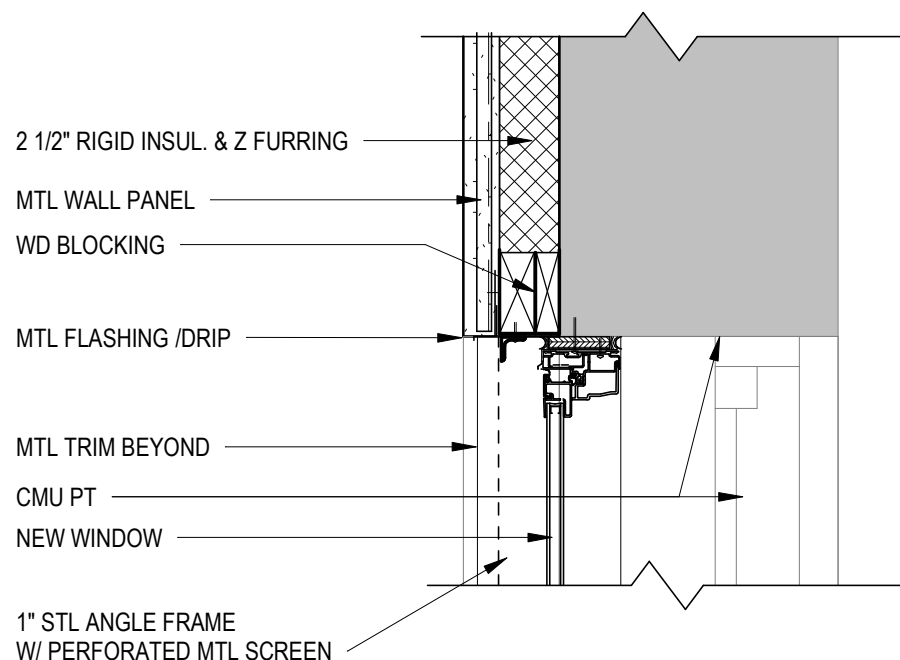
**C1 WINDOW JAMB DETAIL**  
SCALE: 1 1/2" = 1'-0"



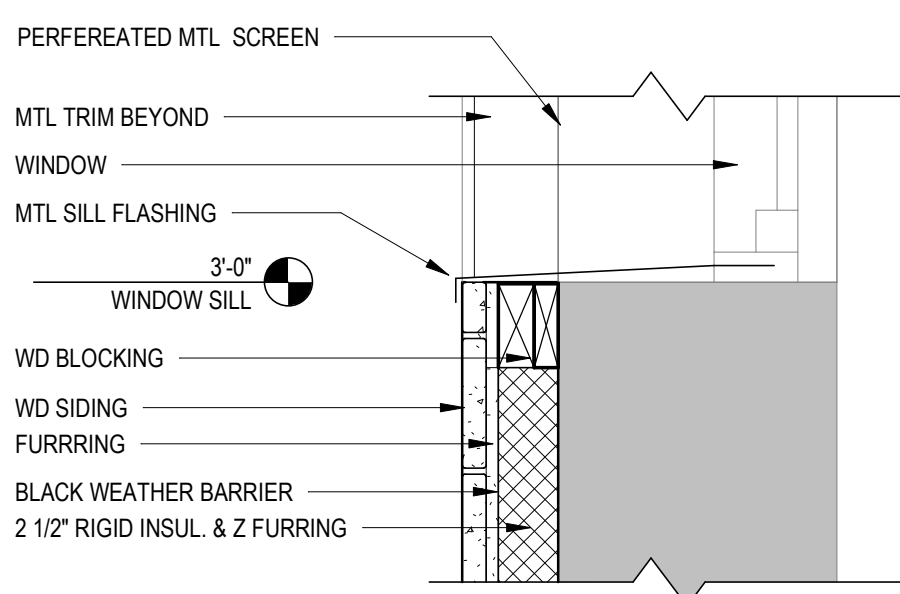
**C2 WINDOW JAMB DETAIL - NEW**  
SCALE: 1 1/2" = 1'-0"



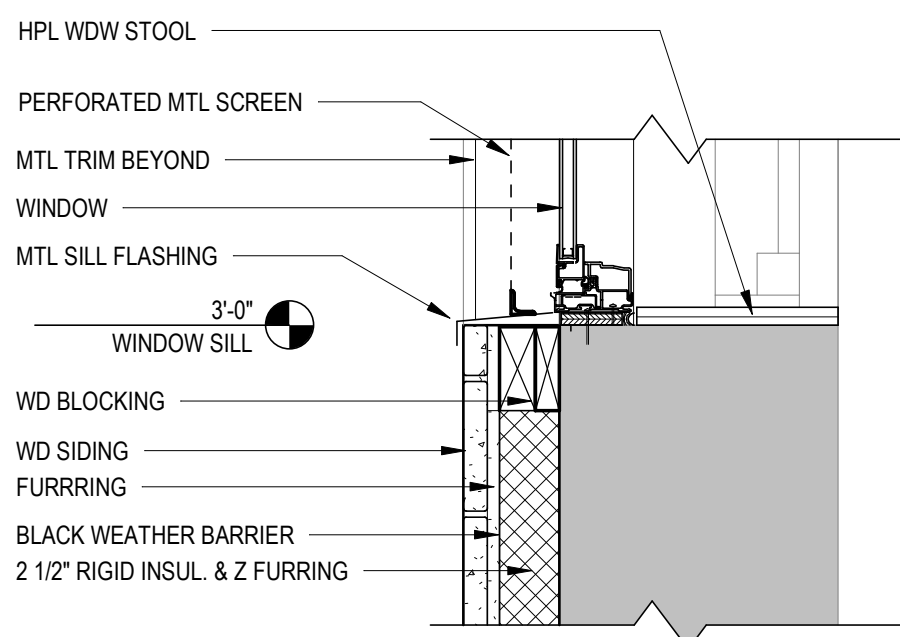
**B1 WINDOW HEAD DETAIL**  
SCALE: 1 1/2" = 1'-0"



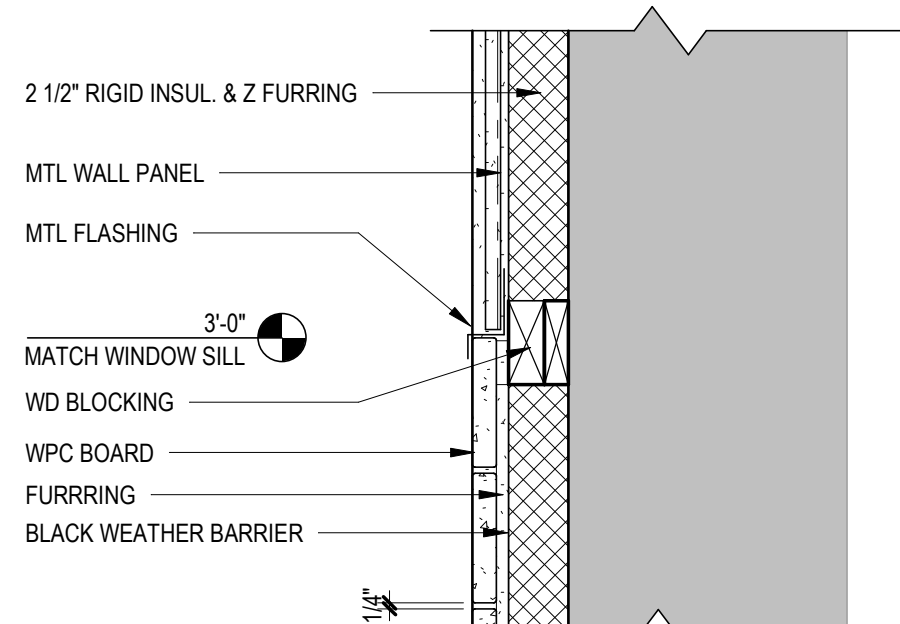
**B2 WINDOW HEAD DETAIL - NEW**  
SCALE: 1 1/2" = 1'-0"



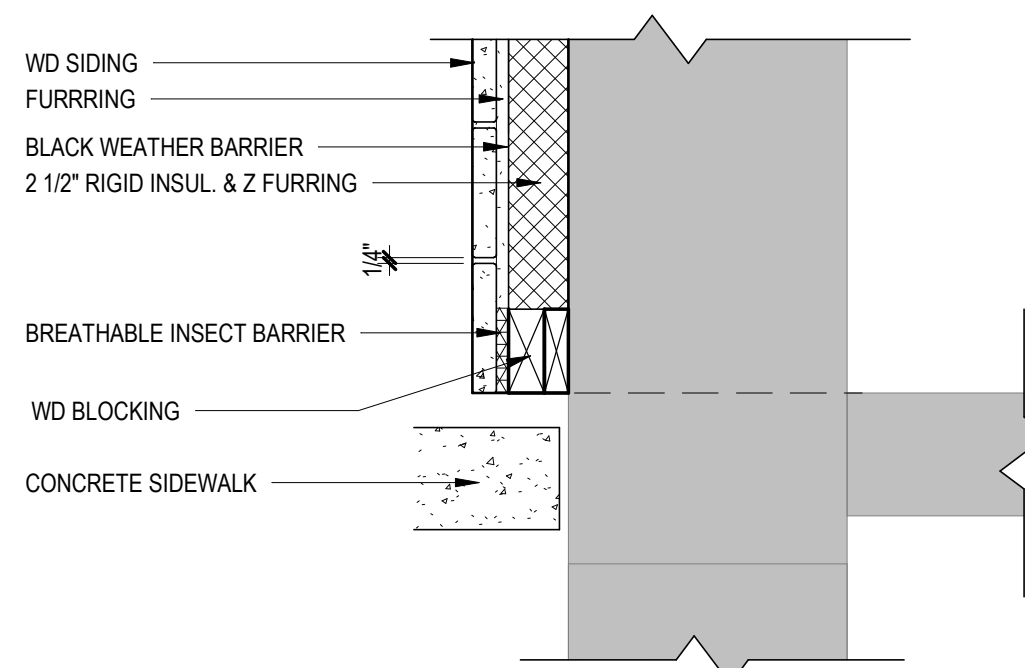
**A1 WINDOW SILL DETAIL**  
SCALE: 1 1/2" = 1'-0"



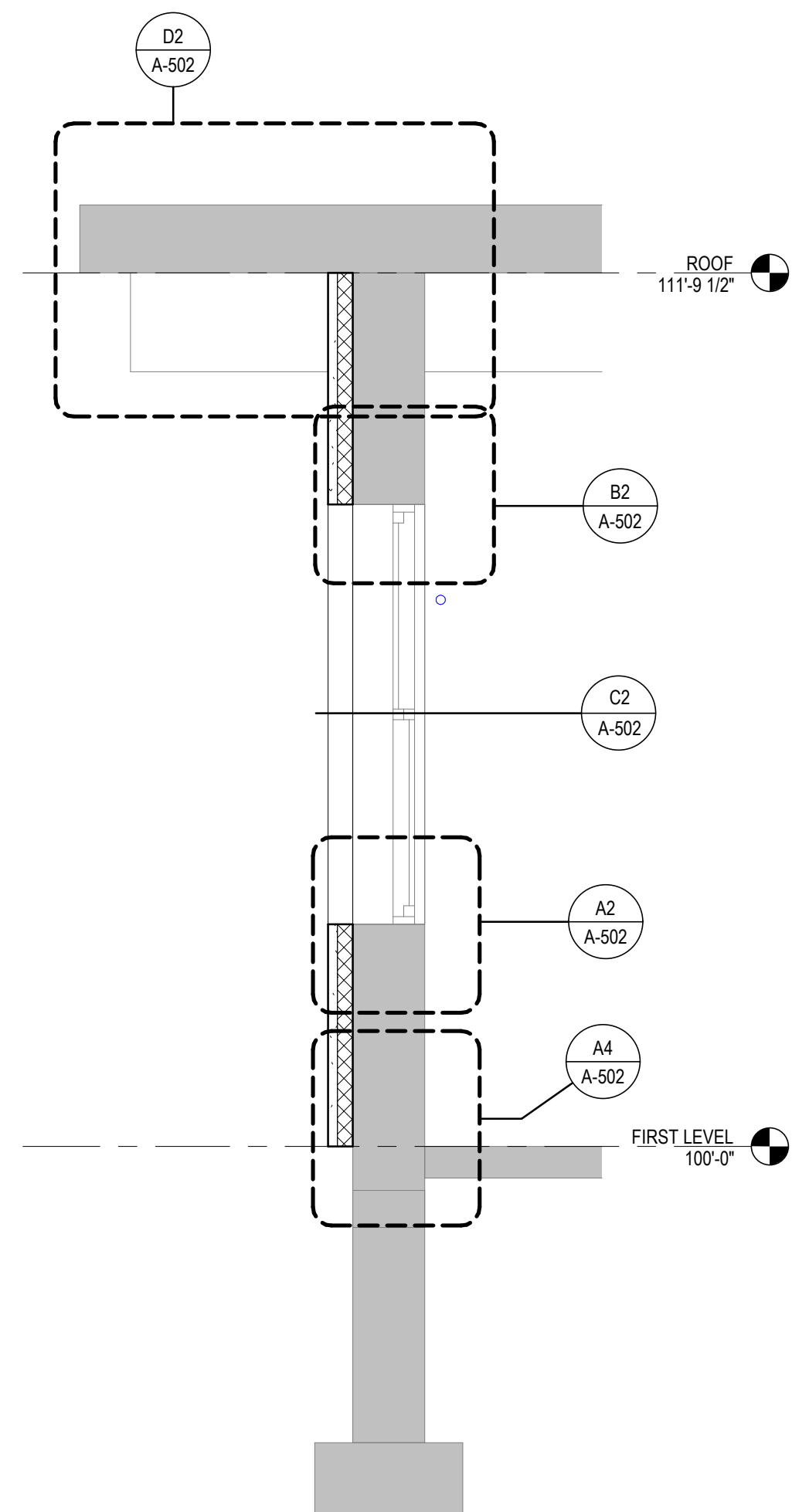
**A2 WINDOW SILL DETAIL - NEW**  
SCALE: 1 1/2" = 1'-0"



**B4 FINISH TRANSITIN DETAIL**  
SCALE: 1 1/2" = 1'-0"



**A4 WALL BASE DETAIL**  
SCALE: 1 1/2" = 1'-0"



**A5 Section 4**  
SCALE: 1/2" = 1'-0"

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RENOVATION  
#PRK20001**

MARSHALLTOWN, IOWA

ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE	04/20/2021	DRAWN BY JWS
PROJECT #	01190805	CHECKED BY JWS

SHEET TITLE

**DETAILS**

SHEET NUMBER

**A-502**

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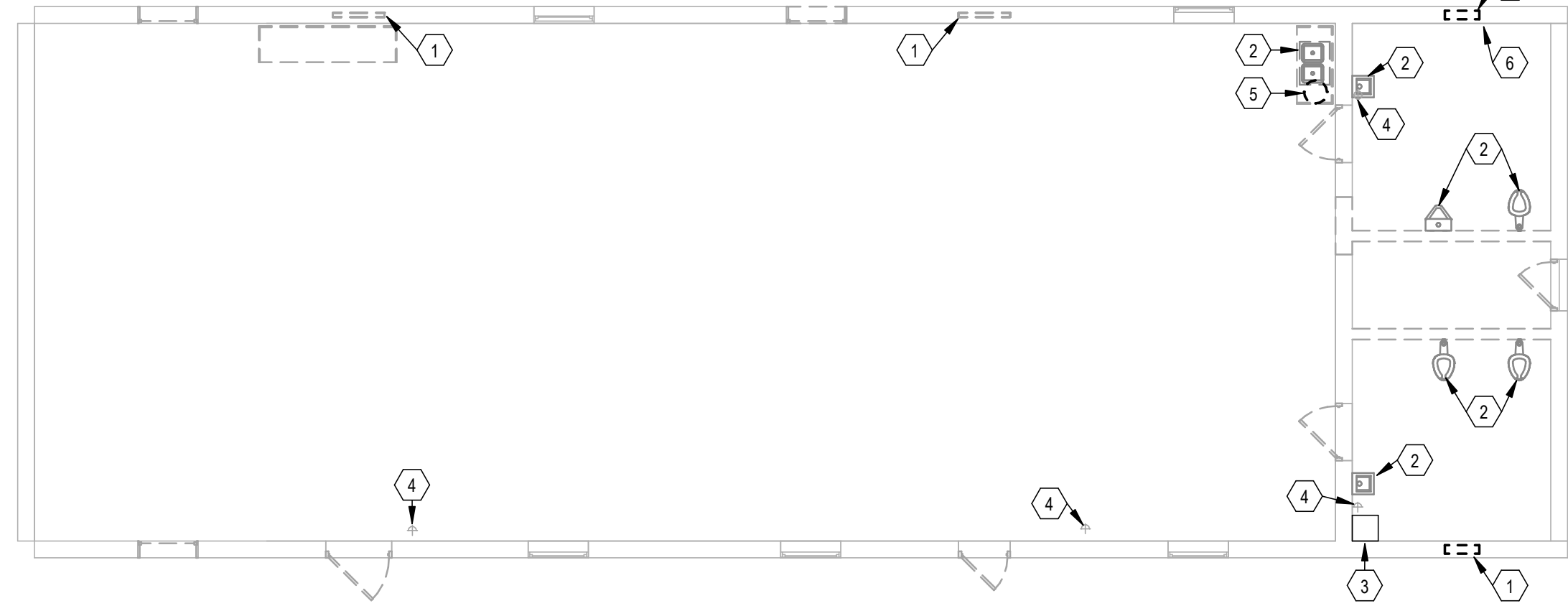
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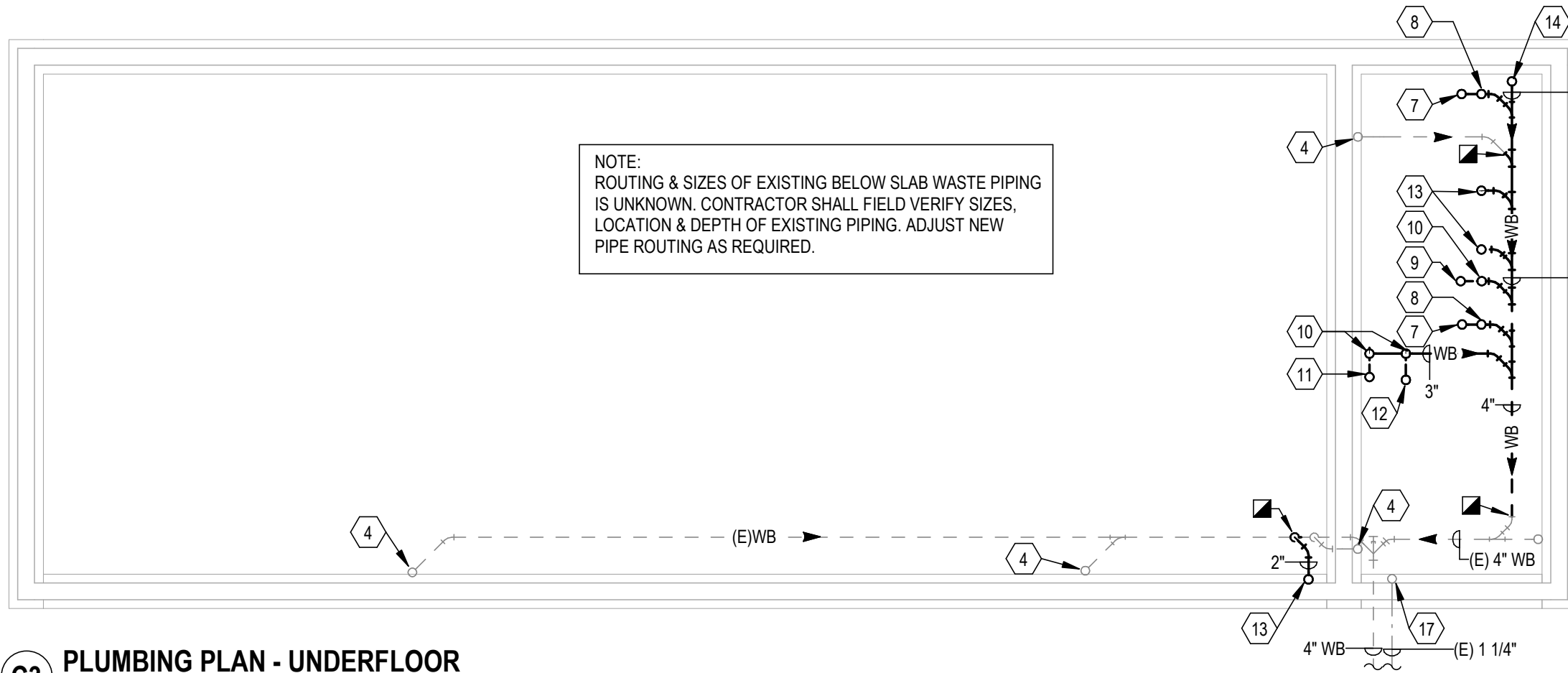
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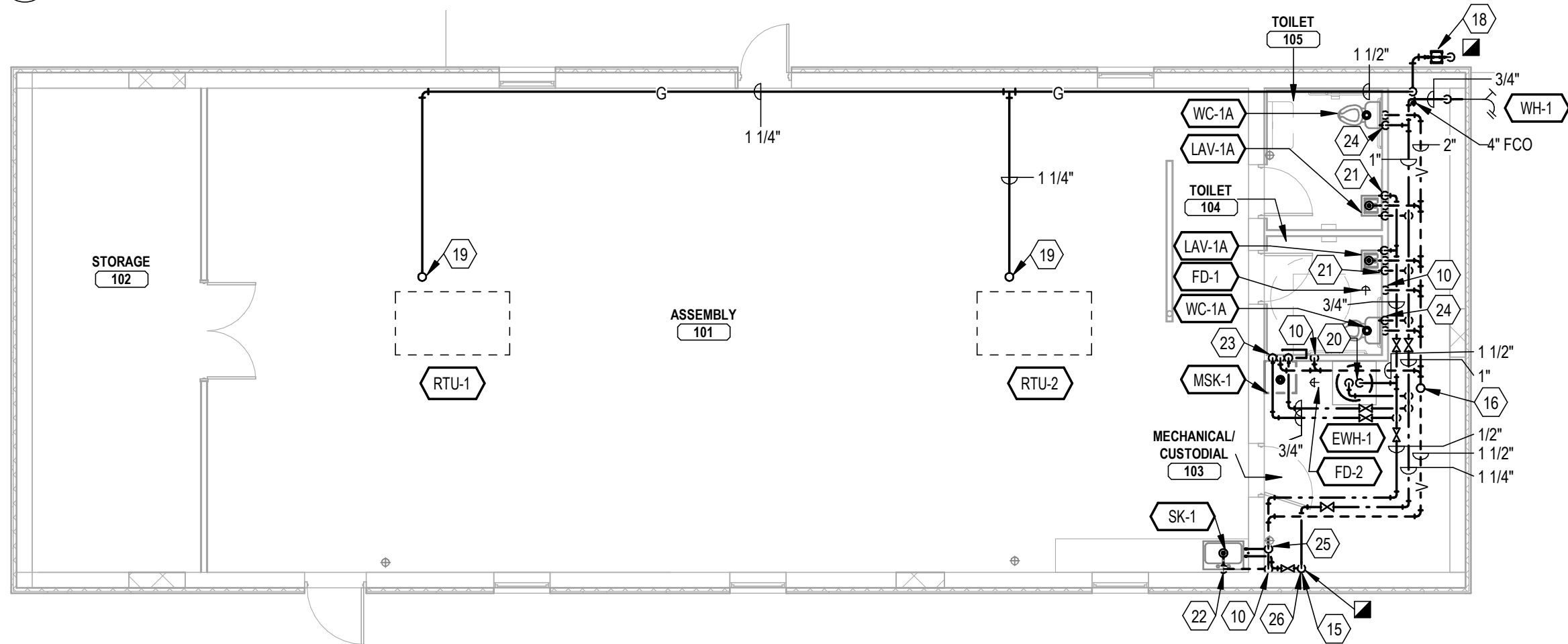
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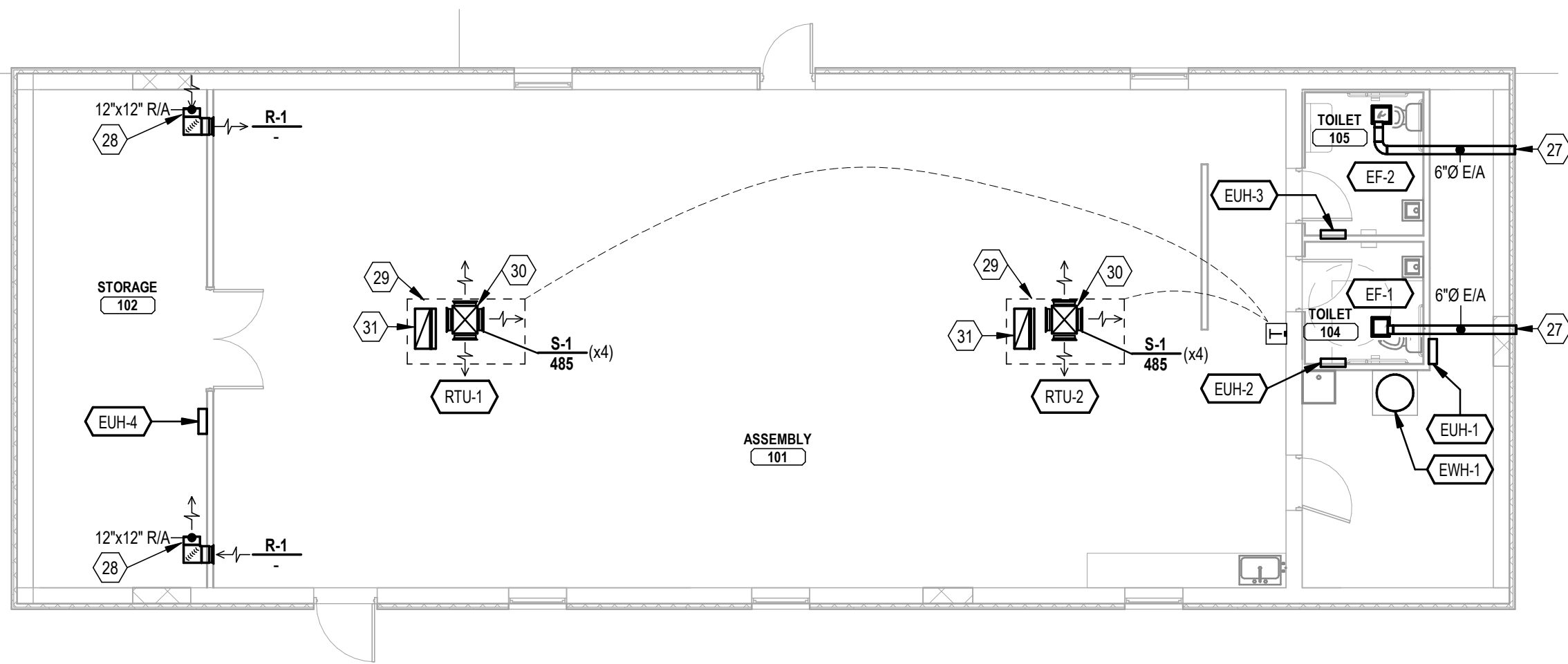
**D3 MECHANICAL DEMOLITION PLAN - FIRST LEVEL**  
SCALE: 1/8" = 1'-0"



**C3 PLUMBING PLAN - UNDERFLOOR**  
SCALE: 1/8" = 1'-0"



**B3 PLUMBING PLAN - FIRST LEVEL**  
SCALE: 1/8" = 1'-0"



**A3 MECHANICAL HVAC PLAN - FIRST LEVEL**  
SCALE: 1/8" = 1'-0"

## KEYNOTES

- 1 REMOVE WALL MOUNTED EXHAUST FAN & ALL CONTROLS.
- 2 REMOVE PLUMBING FIXTURE AND ALL PIPING.
- 3 WATER SERVICE & METER IN PIT TO REMAIN.
- 4 FLOOR DRAIN TO REMAIN. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING DRAIN AND VENT.
- 5 REMOVE UNDER CABINET MOUNTED ELECTRIC WATER HEATER & ALL PIPING.
- 6 REMOVE ALL ABANDONED GAS PIPING BACK TO EXTERIOR WALL. PREPARE EXISTING OPENING THRU WALL FOR NEW GAS PIPING. COORDINATE WITH G.C. FOR CUTTING AND PATCHING WALL.
- 7 4" WB UP TO WATER CLOSET.
- 8 2" V UP.
- 9 2" WB UP TO FLOOR DRAIN.
- 10 1 1/2" V UP.
- 11 3" WB UP TO MOP SINK.
- 12 3" WB UP TO FLOOR DRAIN.
- 13 2" WB UP TO LAV OR SINK.
- 14 4" WB UP TO FCO.
- 15 1 1/4" CW DN. CONNECT TO EXISTING WATER METER & SERVICE.
- 16 2" V UP TO 4" VTR.
- 17 EXISTING 1 1/4" CW UP.
- 18 GAS METER, SERVICE AND REGULATOR. TOTAL CONNECTED LOAD = 300 CFH. COORDINATE WITH UTILITY COMPANY.
- 19 CONNECT 1 1/4" GAS TO RTU ON ROOF WITH SHUT-OFF VALVE, 6" DIRT LEG & UNION.
- 20 3/4" HW & CW DN TO WATER HEATER.
- 21 1/2" HW & CW DN TO LAV. 1 1/2" V UP.
- 22 1 1/2" V UP AS HIGH AS POSSIBLE BENEATH COUNTERTOP.
- 23 3/4" HW & CW DN TO MOP SINK. 1 1/2" V UP.
- 24 1/2" CW DN TO WATER CLOSET. 2" V UP.
- 25 1/2" HW DN TO SINK.
- 26 CONNECT 1/2" CW TO 1 1/4" CW RISER. ROUTE PIPING THRU WALL TO SINK.
- 27 PROVIDE WALL CAP.
- 28 OPEN ENDED TRANSFER AIR DUCT WITH EXPANDED METAL SCREEN.
- 29 INSTALL RTU SO BOTH REST ON TWO ROOF BEAMS.
- 30 20"X18" SUPPLY AIR UP THRU ROOF TO RTU. INSTALL SUPPLY REGISTERS AT 9'-4" AFF TO BOTTOM FLANGE.
- 31 30"X12" RETURN AIR DUCT UP THRU ROOF TO RTU. PROVIDE 90 DEG ELBOW AND MESH SCREEN AT OPEN ENDED DUCT. INSTALL BOTTOM OF DUCT EVEN WITH BOTTOM OF ROOF BEAMS.

PROVIDE NEW NATURAL GAS SERVICE, METER AND GAS PIPING TO ROOFTOP UNITS RTU-1 AND RTU-2 UNDER ALTERNATE NO. 3

INSTALL WATER PIPING TO ALLOW SEASONAL DRAINAGE OF SYSTEM.

PROVIDE ROOFTOP UNITS RTU-1 AND RTU-2 AND ELECTRIC UNIT HEATER EUH-4 UNDER ALTERNATE NO. 3

MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRING OF ALL TEMPERATURE CONTROL DEVICES



PLAN NORTH



TSP, Inc.  
1500 Highway 52 North  
Rochester, MN 55901

(507) 288-8155  
www.teamtsp.com

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**CITY OF  
MARSHALLTOWN  
ANSON PARK SHELTER  
RENOVATION  
#PRK20001**

MARSHALLTOWN, IOWA

ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE	04/16/2021	DRAWN BY JLP
PROJECT #	01190805	CHECKED BY RCN

SHEET TITLE

**PLUMBING &  
MECHANICAL PLAN**

SHEET NUMBER

**M-101**

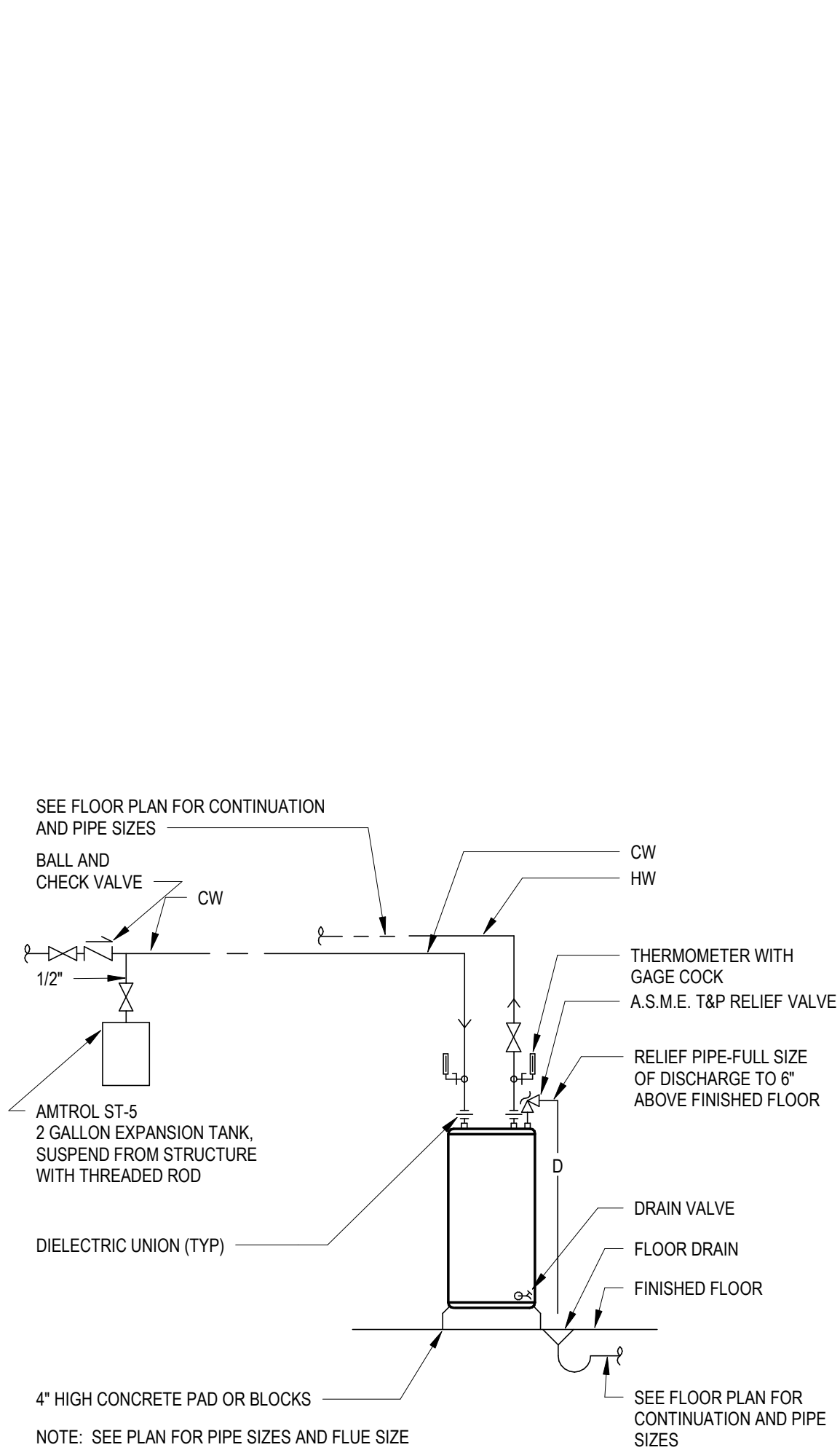
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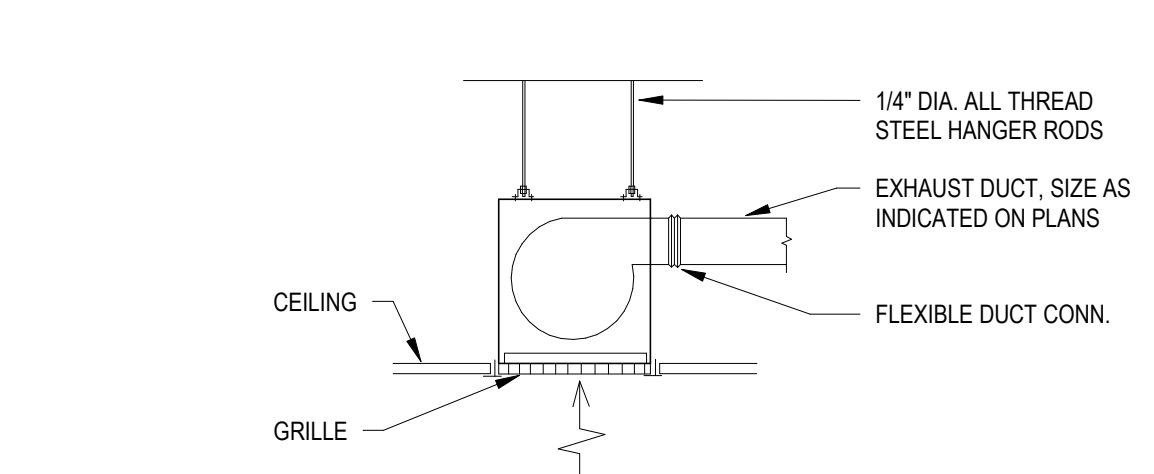


LISTED DRAWINGS SCALE(S) UNLESS REDUCED FROM ORIGINAL 24" x 36" FORMAT

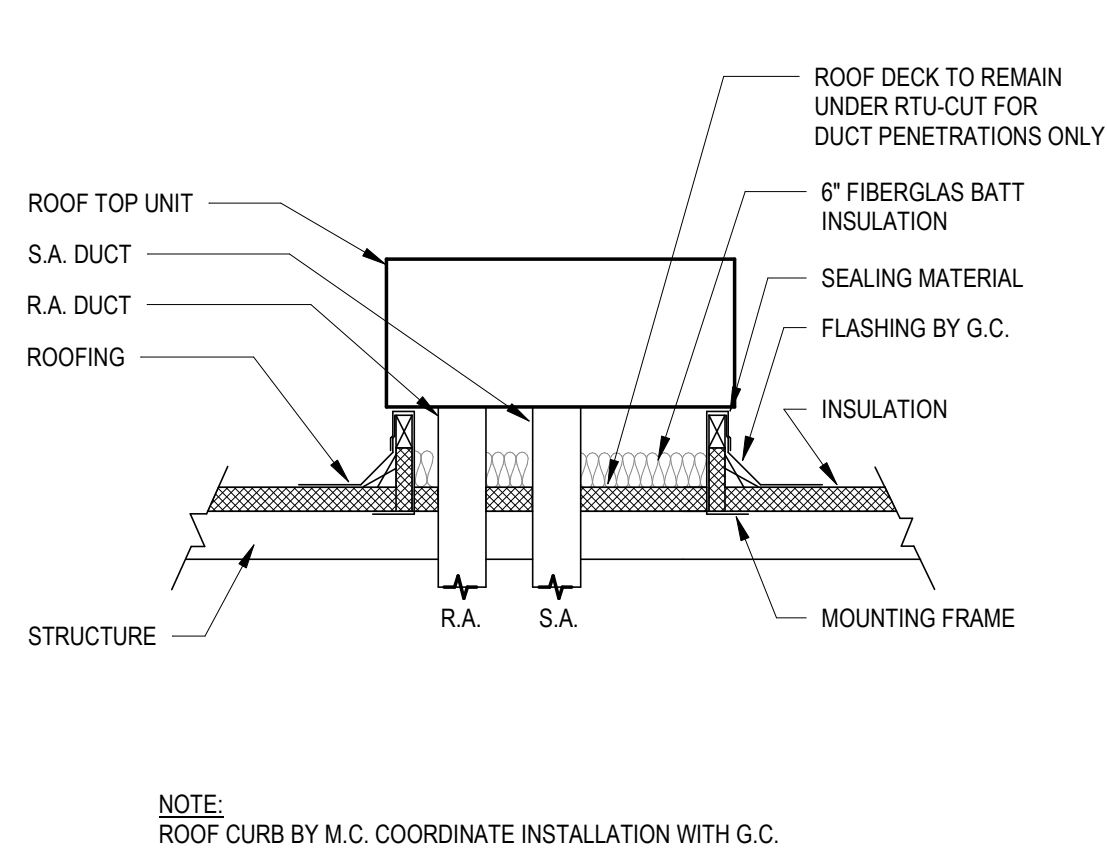
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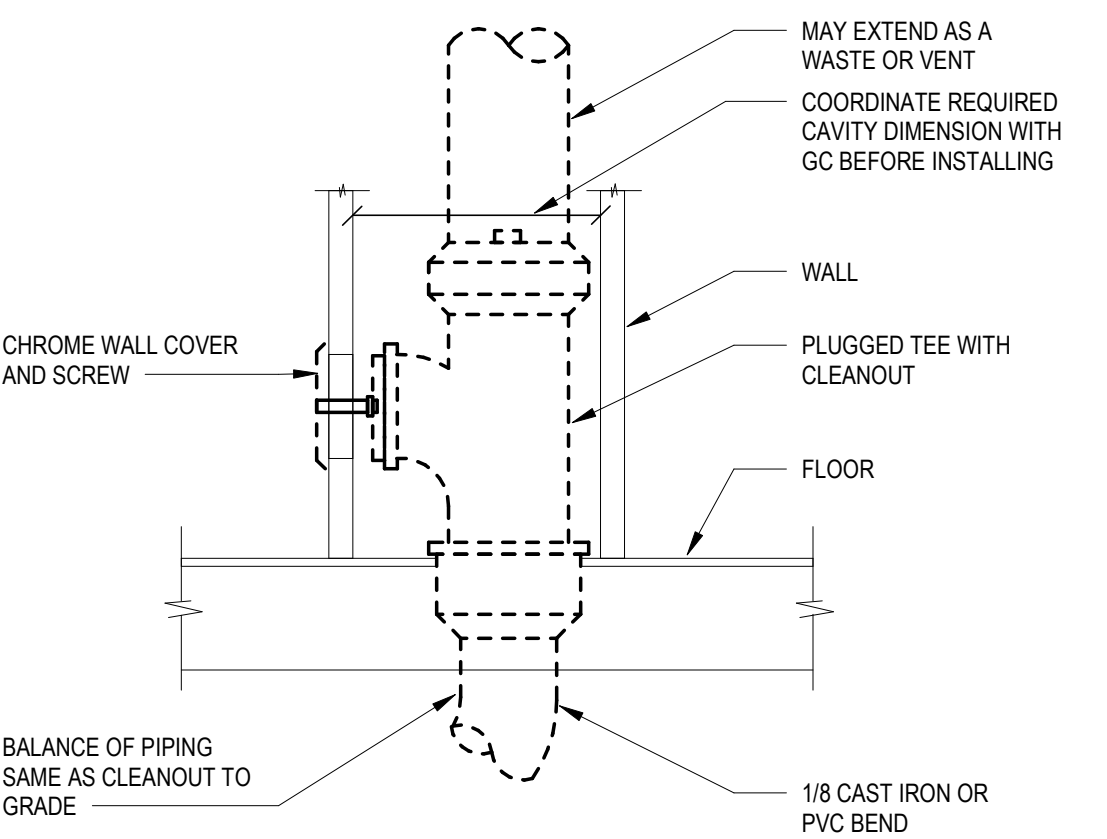
**B3** ELECTRIC WATER HEATER  
SCALE: NOT TO SCALE



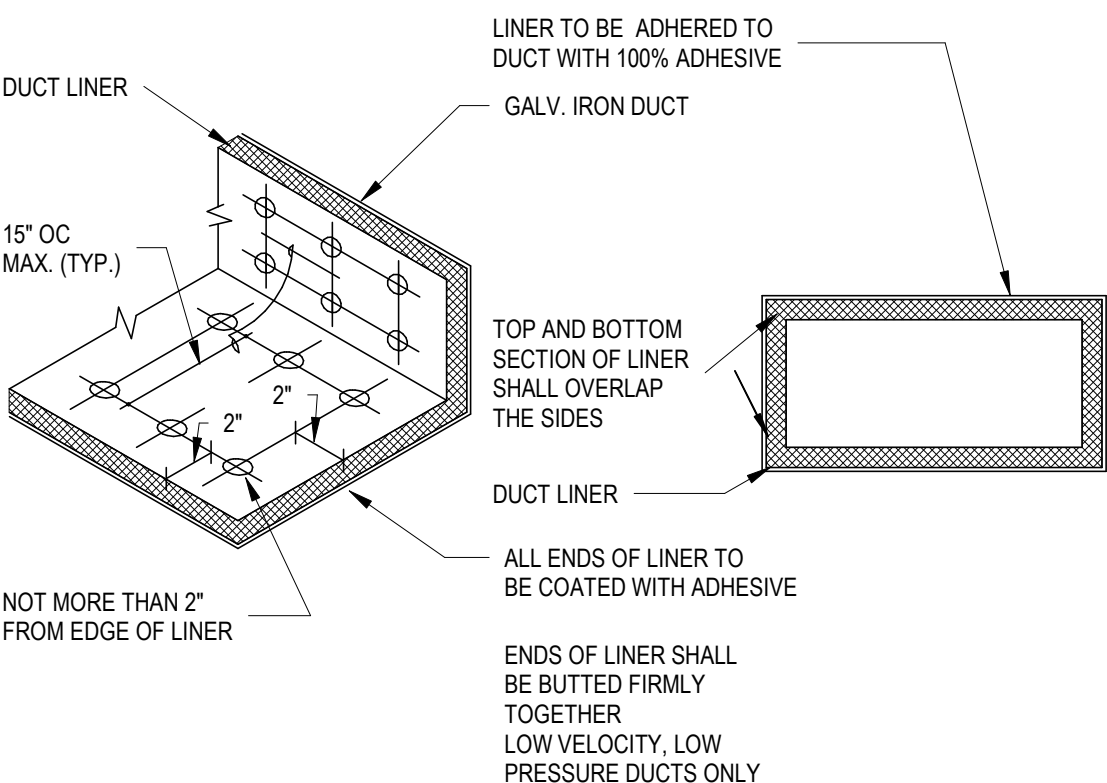
**A3** CEILING FAN  
SCALE: NOT TO SCALE



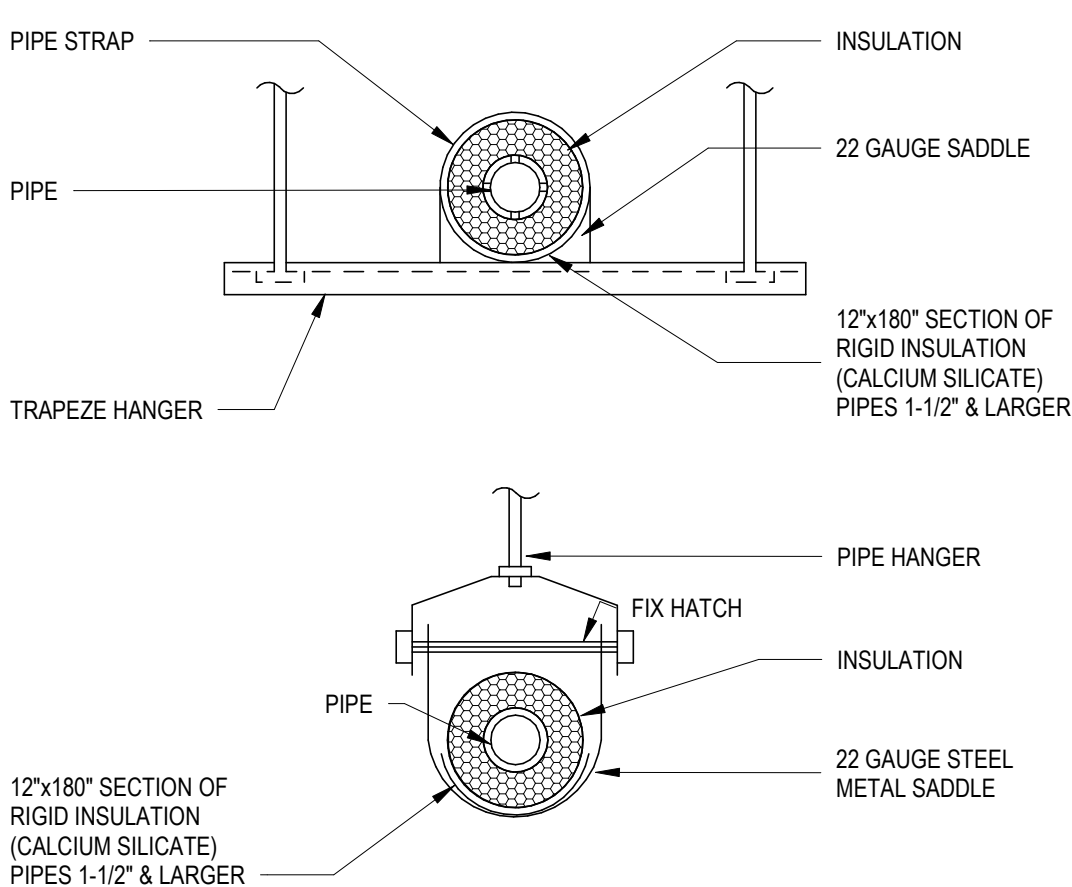
**C4** ROOFTOP UNIT  
SCALE: NOT TO SCALE



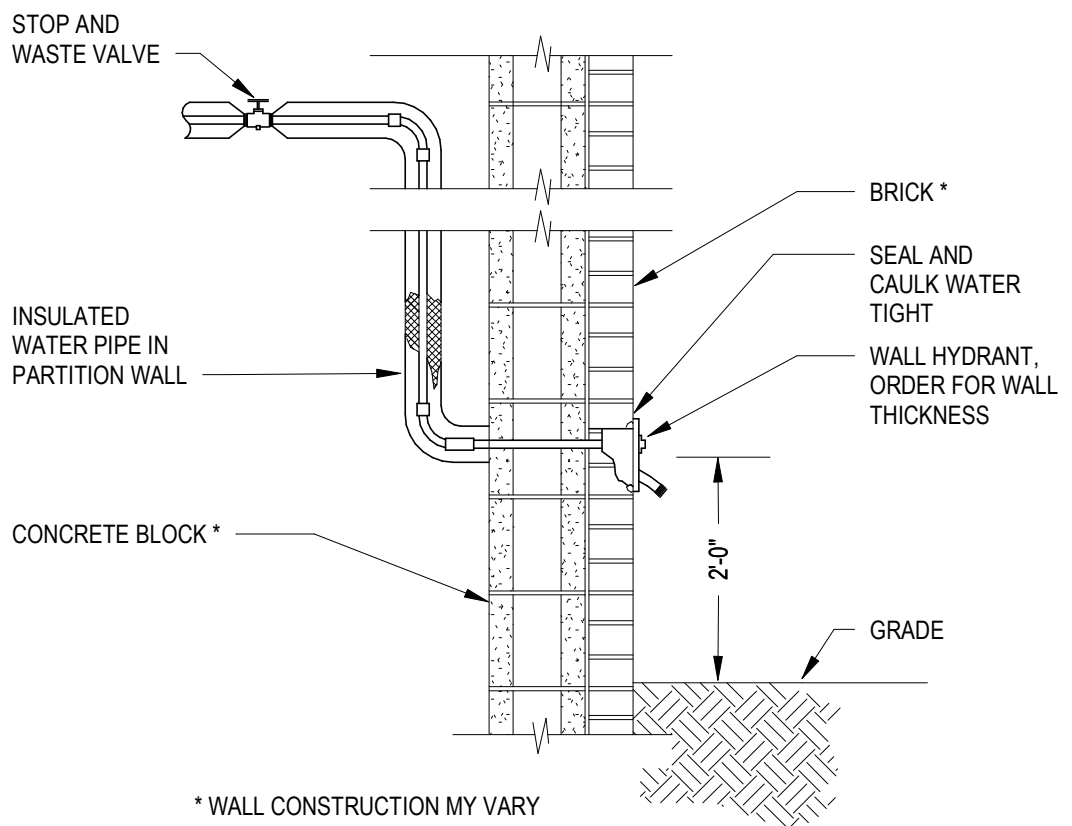
**B4** WALL CLEANOUT  
SCALE: NOT TO SCALE



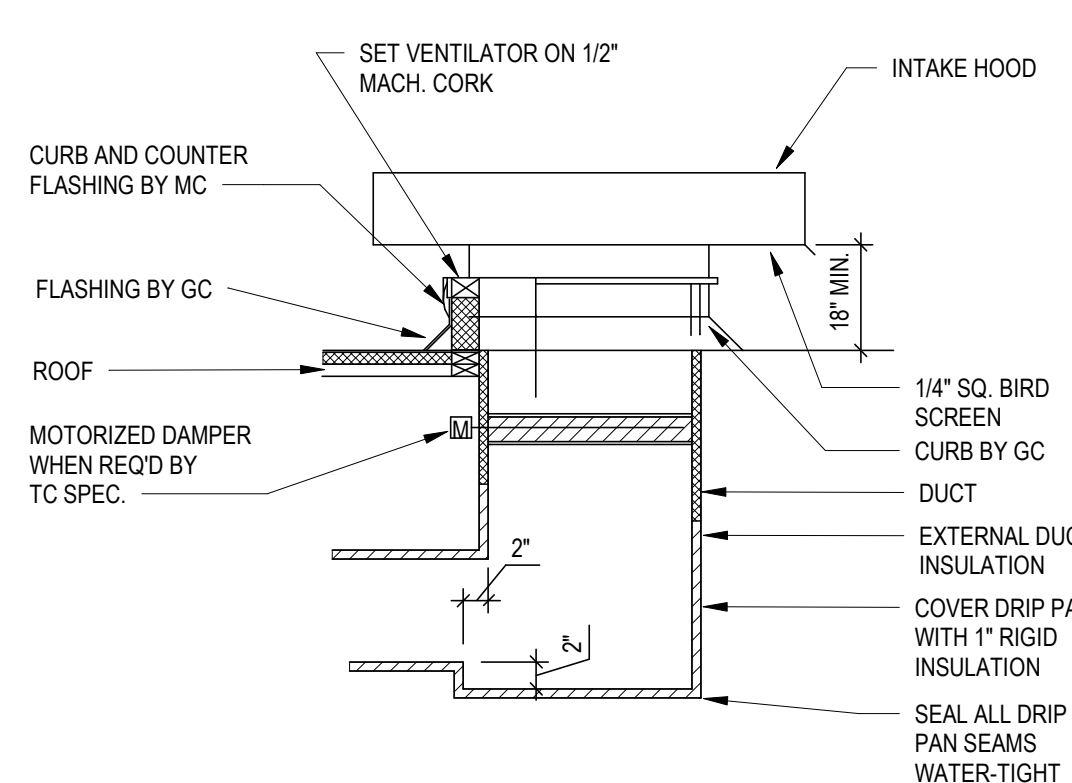
**A4** DUCT LINER  
SCALE: NOT TO SCALE



**C5** HANGER AND INSULATION SADDLES  
SCALE: NOT TO SCALE



**B5** WALL HYDRANT  
SCALE: NOT TO SCALE



**A5** INTAKE RELIEF VENTILATOR  
SCALE: NOT TO SCALE

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SHEET TITLE

**MECHANICAL DETAILS**

SHEET NUMBER

**M-501**

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LISTED DRAWINGS SCALE(S) UNLESS REDUCED FROM ORIGINAL 24" x 36" FORMAT

ROOFTOP UNIT SCHEDULE

ROOFTOP UNIT SCHEDULE																																										
EQUIPMENT REQUIREMENTS																												ELECTRICAL REQUIREMENTS														
SUPPLY FAN										GAS FIRED HEAT EXCHANGER						EVAPORATOR COOLING COIL						COMPRESSOR						CONTROLLER												DISCONNECT		ELECTRICAL NOTES
UNIT NO.	MANUFACTURER	MODEL NO.	OUTDOOR AIRFLOW	FILTER					BURNER			AIRSIDE			NOM. TONS	CAPACITY MBH	EAT DB	EAT WB	LAT DB	LAT WB	NO.	REFRIGERANT			AMBIENT	EER	UNIT WEIGHT	EQUIPMENT NOTES	VOLT/PH	MIN AIC	MIN CKT AMP	MOCP	WIRE SIZE / CONDUIT	TYPE	SIZE	LOCATION	CTL DEVICE	AUX	BY	CONTROL BY	TYPE	
					AIRFLOW	ESP	RPM	BHP	MOTOR POWER	INPUT MBH	OUTPUT MBH	STAGES	FUEL TYPE	EAT								LAT	REFRIGERANT	REFRIGERANT																		REFRIGERANT
RTU-1	LENNOX	LGH-060	500 CFM	2" MERV 7	1950 CFM	0.75 in-wg	1078	1.00 hp	1.0 hp	150	113	2	NG	50.0 °F	103.6 °F	5	62	79.4 °F	66.0 °F	54.7 °F	54.7 °F	1	R410A		95.0 °F	13.1	1050 lb	ALL	240 / 1	2.510	44	60	SEE CIRCUIT SCHEDULE	E1	-	-	-	-	DIV 22/23	DIV 22/23	DISC SW	DIV 22/23
RTU-2	LENNOX	LGH-060	500 CFM	2" MERV 7	1950 CFM	0.75 in-wg	1078	1.00 hp	1.0 hp	150	113	2	NG	50.0 °F	103.6 °F	5	62	79.4 °F	66.0 °F	54.7 °F	54.7 °F	1	R410A		95.0 °F	13.1	1050 lb	ALL	240 / 1	3.400	44	60	SEE CIRCUIT SCHEDULE	E1	-	-	-	-	DIV 22/23	DIV 22/23	DISC SW	DIV 22/23

- REMARKS:
- ECONOMIZER WITH BAROMETRIC RELIEF DAMPER.
  - FACTORY SINGLE ZONE VAV CONTROLS WITH 7-DAY PROGRAMMABLE THERMOSTAT, CO2 SENSOR AND HUMIDISTAT.
  - 14" HIGH ROOF CURB.
  - HUMIDITROL-HOT GAS REHEAT DEHUMIDIFICATION SYSTEM.
  - 5 YEAR COMPRESSOR WARRANTY, 10 YEAR GAS HEAT EXCHANAGER WARRANTY.
  - TWO STAGE COOLING.
  - DIRECT DRIVE SUPPLY FAN WITH EC MOTOR.
  - PROVIDE WITH HINGED ACCESS DOORS, SERVICE DISCONNECT, HAIL GUARDS AND 120V CONVENIENCE OUTLET.
  - PROVIDE RTU-1 AND RTU-2 UNDER ALTERNATE NO. 3.

EXHAUST FAN & POWER ROOF VENT SCHEDULE

EXHAUST FAN & POWER ROOF VENT SCHEDULE																							
EQUIPMENT REQUIREMENTS													ELECTRICAL REQUIREMENTS										
UNIT NO.	MANUFACTURER	MODEL NO.	TYPE	AIRFLOW	TSP	RPM	POWER (WATTS)	SONES	EQUIPMENT NOTES	VOLT/PH	MIN CKT AMP	MOCP	WIRE SIZE / CONDUIT	CONTROLLER						CONTROL BY	DISCONNECT		ELECTRICAL NOTES
														TYPE	SIZE	LOCATION	CTL DEVICE	AUX	BY		TYPE	BY	
EF-1	GREENHECK	SP-110-VG	VARIABLE SPEED CEILING FAN	100 CFM	0.38 in-wg	940	8.4	2.3	ALL	120/1	0.25	15	SEE CIRCUIT SCHEDULE	-	-	-	-	-	-	E1	INTEGRAL	DIV. 22/23	
EF-2	GREENHECK	SP-110-VG	VARIABLE SPEED CEILING FAN	100 CFM	0.38 in-wg	940	8.4	2.3	ALL	120/1	0.25	15	SEE CIRCUIT SCHEDULE	-	-	-	-	-	-	E1	INTEGRAL	DIV. 22/23	

- REMARKS:
- VARI-GREEN EC MOTOR.
  - PROVIDE WITH WALL CAP AND BACKDRAFT DAMPER.
  - PROVIDE DISCONNECT.
- ELEC. REMARKS:
- E1. EXHAUST FAN IS CONTROLLED BY PILOT SWITCH IN RESTROOM.

WATER HEATER SCHEDULE

WATER HEATER SCHEDULE																							
EQUIPMENT REQUIREMENTS												ELECTRICAL REQUIREMENTS											
UNIT NO.	LOCATION		NUMBER	MANUFACTURER	MODEL NO.	ELEMENT HEATING CAP. (2 EACH)	RECOVERY RATE @ 100 DEG DT	STORAGE CAP.	EQUIPMENT NOTES	VOLT/PH	MIN CKT AMP	MOCP	WIRE SIZE / CONDUIT	CONTROLLER						CONTROL BY	DISCONNECT		ELECTRICAL NOTES
	ROOM	CUSTODIAL												TYPE	SIZE	LOCATION	CTL DEVICE	AUX	BY		TYPE	BY	
EW-H-1	MECHANICAL	CUSTODIAL	103	A. O. Smith	DEL-30	4500 W	18.0 gal/h	30.0 gal	ALL	240 / 1	23.43	30	SEE CIRCUIT SCHEDULE	-	-	-	-	-	-	DIV. 22/23	E1	DIV. 26	

- REMARKS:
- DUAL NON-SIMULTANEOUS ELEMENTS.
  - ASME T&P VALVE.
- ELEC. NOTES:
- E1. PROVIDE A 30A, 3 POLE, NON-FUSED DISCONNECT IN A NEMA 3R ENCLOSURE.

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

TYPE	SYSTEM	MANUFACTURER	MODEL NO.	FACE SIZE	NECK SIZE	MOUNTING TYPE	SPECIFICATION	MAX NC (dB)	MAX PD ("WG)	INTEGRAL DAMPER	FINISH COLOR	MATERIAL	REMARKS
S-1	SUPPLY	KRUEGER	880H	18"x16"	16"x14"	SURFACE	DOUBLE DEFLECTION GRILLE WITH FRONT BLADES PARALLEL TO SHORT DIMENSION. 3/4" SPACING.	25	0.05	-	WHITE	STEEL	
R-1	RETURN	KRUEGER	S85	14 x 14"	12"x12"	SURFACE	SINGLE DEFLECTION GRILLE WITH FRONT BLADES PARALLEL TO SHORT DIMENSION. 1/2" SPACING. 35° DEFLECTION.	25	0.05	-	WHITE	STEEL	

ELECTRIC UNIT HEATER SCHEDULE

EQUIPMENT REQUIREMENTS													ELECTRICAL REQUIREMENTS										
UNIT NO.	MANUFACTURER	MODEL NO.	AIRFLOW	ELEMENT		AIRSIDE		EQUIPMENT NOTES	VOLT/PH	MIN CKT AMP	MOCP	WIRE SIZE / CONDUIT	CONTROLLER						DISCONNECT		ELECTRICAL NOTES		
				STAGES	HEATING CAP.	ENTERING AIR TEMP. DB	LEAVING AIR TEMP. DB						TYPE	SIZE	LOCATION	CTL DEVICE	AUX	BY	CONTROL BY	TYPE		BY	
EUH-1	TRANE	UHAA	230 CFM	1	3.0 kW	60 °F	101 °F	ALL	240 / 1	15.63	20	SEE CIRCUIT SCHEDULE	-	-	-	-	-	-	DIV. 22/23	INTEGRAL	DIV. 22/23		
EUH-2	TRANE	UHAA	230 CFM	1	1.5 kW	60 °F	81 °F	ALL	240 / 1	7.813	15	SEE CIRCUIT SCHEDULE	-	-	-	-	-	-	DIV. 22/23	INTEGRAL	DIV. 22/23		
EUH-3	TRANE	UHAA	230 CFM	1	1.5 kW	60 °F	81 °F	ALL	240 / 1	7.813	15	SEE CIRCUIT SCHEDULE	-	-	-	-	-	-	DIV. 22/23	INTEGRAL	DIV. 22/23		
EUH-4	TRANE	UHAA	230 CFM	1	3.0 kW	60 °F	101 °F	ALL	240 / 1	15.63	20	SEE CIRCUIT SCHEDULE	-	-	-	-	-	-	DIV. 22/23	INTEGRAL	DIV. 22/23		

- REMARKS:
- 18 GA LOUVERED FACE. SURFACE MOUNT INSTALLATION.
  - UNIT MOUNTED ADJUSTABLE THERMOSTAT.
  - UNIT MOUNTED CIRCUIT BREAKER.
  - EUH-2 AND EUH-3 TO BE RECESSED UNITS.
  - PROVIDE EUH-4 UNDER ALTERNATE NO. 3.

PLUMBING FIXTURE SCHEDULE

UNIT NO.	DESCRIPTION	MANUFACTURER	MODEL	SPECIFICATIONS	FLUSH VALVE OR FAUCET	ACCESSORY	CONNECTIONS				MOUNTING HEIGHT
							CW	HW	WASTE	VENT	
FD-1	FLOOR DRAIN	SIoux CHIEF	833	CAST IRON, NICKEL BRONZE ADJUSTABLE STRAINER, FLASHING COLLAR CLAMP AND P-TRAP.			-	-	2"	1 1/2"	
FD-2	FLOOR DRAIN	SIoux CHIEF	833	CAST IRON, NICKEL BRONZE ADJUSTABLE STRAINER, FLASHING COLLAR CLAMP AND P-TRAP.			-	-	3"	1 1/2"	
LAV-1A	LAVATORY - WALL HUNG - ADA	AMERICAN STANDARD	LUCERNE	20"x18", VITREOUS CHINA, BACK SPLASH, FRONT OVERFLOW, CONCEALED ARMS WITH CARRIER.	DELTA 501LF-HDF SINGLE LEVER LAVATORY FAUCET, SCALD GUARD, VANDAL RESISTANT, CERAMIC DESC VALVING. (1.5 GPM), GRID STRAINER	PROVIDE FLOOR MOUNTED LAV CARRIER WITH CONCEALED ARMS, ADA COMPLIANT OFFSET DRAIN, 1 1/4" P-TRAP, PERFORATED STRAINER, CHROME SUPPLIES & STOPS, PREMOLDED PIPE INSULATION KIT (WHITE).	1/2"	1/2"	2"	1 1/2"	34" TO RIM
MSK-1	MOP SINK	FIAT	MSB-2424	24"x24"x10" HIGH, MOLDED STONE	CHICAGO 897, VACUUM BREAKER, PAIL HOOK, HOSE END SPOUT, WALL BRACKET, DOME TYPE WITH LINT BASKET OF NO. 302 STAINLESS STEEL, COMPRESSION GASKET OR LEAD CAULK JOINT, 3-INCH DEEP SEAL CAST IRON TRAP	VINYL BUMPER GUARD ON EXPOSED SIDES, NO. 832-AA HOSE AND BRACKET, NO. 889-CC MOP HANGER	3/4"	3/4"	3"	1 1/2"	36" TO FAUCET
SK-1	SS. SINK, SINGLE COMPARTMENT	ELKAY	"LUSTERTONE" LR-2219	SINGLE COMPARTMENT SINK, 22" X 19" X 7.5" D. 18 GAUGE TYPE 302 S.S., 2 HOLE SELF-RIMMING, OFF-CENTERED REAR DRAIN OPENING, 8" CENTERS, FULLY UNDERCOATED.	AMERICAN STANDARD 6409.170 MONTERREY FAUCET, WING HANDLES, 13" HIGH X 8" REACH SWING GOOSENECK, CERAMIC DISC VALVING, SOLID BRASS CONSTRUCTION, CHROME PLATED, LESS SPRAY.	1 1/2" P-TRAP, CHROME ANGLE SUPPLIES AND STOPS, NEOPRENE CRUMB CUP STOPPER.	1/2"	1/2"	2"	1 1/2"	
WC-1A	WATER CLOSET - FLOOR MOUNT - ADA COMPLIANT	AMERICAN STANDARD	CADET 2467.016	VITREOUS CHINA, ELONGATED BOWL, ADA PRESSURE ASSIST FLUSH TANK, WHITE	3/8" ANGLE SUPPLY LOOSE KEY STOP	ENEKE 527 SS WHITE, OPEN FRONT SEAT, LESS COVER, WITH SELF-SUSTAINING CHECK HINGE, FLAT BOLT CAPS, INSULATED TANK, LOCKING TANK COVER.	1/2"	-	4"	2"	17" TO RIM
WH-1	WALL HYDRANT	WOODFORD	MODEL 67	FREEZELESS, VACUUM BREAKER, CHROME FINISH, BRASS CASTING, S.S. STEM, 3/8" ROD, BRASS VALVE WITH HEMISPHERICAL SEAT, LOOSE KEY, RECESSED WITH HINGED DOOR AND KEY			3/4"	-	-	-	24" ABOVE GRADE



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MECHANICAL  
SCHEDULES

SHEET NUMBER

ME601

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C

B

A

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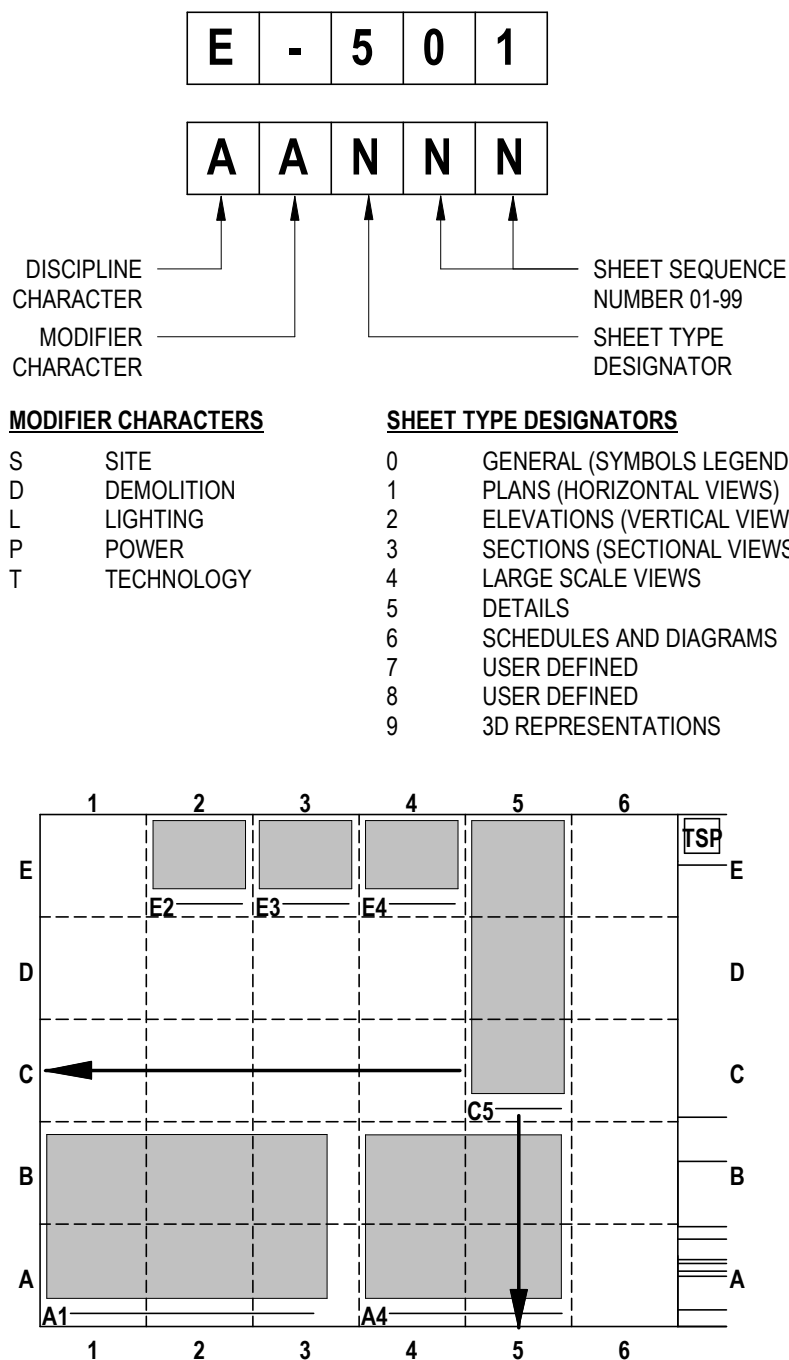
### ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	DCP	DOMESTIC WATER CIRCULATING PUMP	HT	HEIGHT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	SWBD	SWITCHBOARD
A	AMPERE	DEPT	DEPARTMENT	HTG	HEATING	SYM	SYMMETRICAL	SYS	SYSTEM
AC	AIR CONDITIONER	DIAM	DIAMETER	HTR	HEATER	TEL	TELEPHONE	TER	TERMINAL
AFC	ABOVE FINISHED COUNTER	DISC	DISCONNECT	HVAC	HEATING VENTILATING AND AIR CONDITIONING	TL	TERMINAL	TR	TAMPER RESISTANT THERMOSTAT
AFF	ABOVE FINISHED FLOOR	DIST	DISTRIBUTION	HWP	HYDRONIC WATER PUMP	NIC	NOT IN CONTRACT	TV	TELEVISION
AFG	ABOVE FINISHED GRADE	DN	DOWN	IC	INTER interrupting CAPACITY	NL	NIGHT LIGHT	TYP	TYPICAL
AFI	ARC FAULT CIRCUIT INTERRUPTER	DT	DOUBLE THROW	IG	ISOLATED GROUND	NLS	NORMALLY OPEN	UC	UNDER COUNTER
AHU	AIR HANDLING UNIT	DWS	DRAWING	INC	INTERMEDIATE METAL CONDUIT	OL	OVERHEAD OVERLOADS	UE	UNDERGROUND ELECTRICAL
AIC	AVAILABLE INTERRUPTING FAULT CURRENT	EC	ELECTRICAL CONTRACTOR	INCD	INCANDESCENT	OS	OCCUPANCY SENSOR	UG	UNDERGROUND
AL	ALUMINUM	ELEC	ELECTRIC, ELECTRICAL	IR	INFRARED	PA	PUBLIC ADDRESS	UH	UNIT HEATER
ALT	ALTERNATE	ELEV	ELEVATOR	IW	INTERLOCK WITH	PB	PULL BOX	UT	UNDERGROUND TELEPHONE
AMP	AMPERE	EM	EMERGENCY	J-BOX	JUNCTION BOX	PF	POWER FACTOR	UTL	UTILITY
AMPL	AMPLIFIER	EMS	EMERGENCY MANAGEMENT SYSTEM	KV	KILOVOLT	PH	PHASE	UV	UNIT VENTILATOR OR ULTRAVIOLET
ANNUN	ANNUNCIATOR	EMT	ELECTRICAL METALLIC TUBING	KVA	KILOVOLT-AMPERE	PIR	PASSIVE INFRARED	V	VOLT
APPROX	APPROXIMATELY	EQUIP	EQUIPMENT	KVAR	KILOVOLT-AMPERE REACTIVE	PIV	POST INDICATING VALVE	VA	VOLT-AMPERES
AQ-STAT	AQUASTAT	EW	ELECTRIC WATER COOLER	KWH	KILOWATT HOUR	PNL	PANEL	VDI	VIDEO DISPLAY TERMINAL
ARCH	ARCHITECT, ARCHITECTURAL	EXIST	EXISTING	LOC	LOCATE OR LOCATION	PP	POWER POLE	VERT	VERTICAL
ATS	AUTOMATIC TRANSFER SWITCH	EXH	EXHAUST	LT	LIGHT	PROJ	PROJECTION	VFD	VARIABLE FREQUENCY DRIVE
AUTO	AUTOMATIC	EXP	EXPLOSION PROOF	LTG	LIGHTING	PRV	POWER ROOF VENTILATOR	VOL	VOLUME
AUX	AUXILIARY	FA	FIRE ALARM	LV	LOW VOLTAGE	PT	POTENTIAL TRANSFORMER (CONDUIT)	VS	VACUANCY SENSOR
AV	AUDIO VISUAL	FACP	FIRE ALARM CONTROL PANEL	MAX	MAXIMUM	PVC	POLYVINYL CHLORIDE	W	WATT
AWG	AMERICAN WIRE GAUGE	FAL	FIRE ALARM (SEE SCHEDULE)	FU	FUSE	PWR	POWER	W/	WITH
BATT	BATTERY	FB-XX	FLOOR BOX (SEE SCHEDULE)	FVNR	FULL VOLTAGE NON-REVERSING	QUAN	QUANTITY	WG	WIRE GUARD
BD	BOARD	FCU	FAN COIL UNIT	GAL	GAUGE	REC	RECEPTACLE REQUIRED	WH	WATER HEATER
BLDG	BUILDING	FX	FIXTURE	GALV	GALVANIZED	RM	ROOM	WO	WITHOUT
BMS	BUILDING MANAGEMENT SYSTEM	FLR	FLOOR	GEN	GENERATOR	RSC	RIGID STEEL CONDUIT	WP	WEATHERPROOF
C	CONDUIT	FLR	FLOOR	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RTU	ROOF TOP UNIT	Y	WYE-CONNECTED
CAB	CABINET	FUSE	FUSE	GFP	GROUND FAULT PROTECTOR	SC	SURFACE CONDUIT	YFM	TRANSFORMER TRANSFER
CAT	CATALOG	FVNR	FULL VOLTAGE NON-REVERSING	GRND	GROUND	SEC	SECONDARY	XFR	TRANSFER
CATV	CABLE TELEVISION	GA	GAUGE	GRS	GALVANIZED RIGID STEEL (CONDUIT)	SHT	SHEET		
CB	CIRCUIT BREAKER	GALV	GALVANIZED	MIS	MISCELLANEOUS	SIM	SIMILAR		
CB-XX	RECESSED CEILING BOX (SEE SCHEDULE)	GC	GENERAL CONTRACTOR	MLO	MAIN LIGHTS ONLY	SNR	SOLID NEUTRAL SPECIFICATION		
CCTV	CLOSED CIRCUIT TELEVISION	GEN	GENERATOR	NOA	MANUAL MOTOR STARTER	SPK	SPEAKER		
CLG	CEILING	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	MSP	MOTOR STARTER PANELBOARD	SP	SPARE		
CM	CORNER MOUNT	GFP	GROUND FAULT PROTECTOR	MSB	MAIN SWITCHBOARD	SR	SURFACE RACEWAY		
CMPR	COMPRESSOR	GRS	GALVANIZED RIGID STEEL (CONDUIT)	MNT	MOUNT	SS	STAINLESS STEEL		
COMB	COMBINATION	GYP BD	GYPSUM BOARD	MT C	EMPTY CONDUIT	SSW	SELECTOR SWITCH		
CONN	CONNECTION	HB	HIGH BAY	MTS	MANUAL TRANSFER SWITCH	STD	STANDARD		
CONST	CONSTRUCTION	HOA	HANDS-OFF-AUTOMATIC	MTR	MOTOR, MOTORIZED	SURF	SURFACE MOUNTED		
CONT	CONTINUATION OR CONTINUOUS	HORIZ	HORIZONTAL	NEC	NATIONAL ELECTRICAL CODE	SW	SWITCH		
CONTR	CONTRACTOR	HP	HORSEPOWER						
CP	CIRCULATING PUMP								
CRT	CATHODE RAY TUBE								
CT	CURRENT TRANSFORMER								
CTR	CENTER								
CU	COPPER								

### CONVENTIONS LEGEND

	NAME	SPACE TAG
	REVISION TAG	
	KEYNOTE TAG	
	SECTION TAG	
	DETAIL TAG	
	ELEVATION TAG	
	EXISTING WORK	
	NEW WORK	
	EXISTING ITEMS TO BE REMOVED	
	NORTH ARROW	
	GRID	COLUMN/FND GRID INDICATOR
	MATCH LINE INDICATOR	
	PLAN OR DETAIL	DETAIL/SECTION/PLAN INDICATOR

### SHEET IDENTIFICATION



### ELECTRICAL SYMBOL NOTES

	THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE 1: LIGHTING FIXTURE TYPE "A2" IS CONNECTED TO CIRCUIT 12 AND CONTROLLED BY SWITCH "B".
	EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 14.
	DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 16 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "C".
	THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".
	SPECIAL RECEPT CONNECTIONS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. SEE KEYNOTE FOR CONFIGURATION. EXAMPLE: 3 PHASE CONNECTION TO CIRCUITS 1, 3, 5.
	MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: MOTOR SF-1; 3 PHASE CONNECTION TO CIRCUITS 2, 4, 6.
	TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE SINGLE LINE DIAGRAM OR RISER FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".
	PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.
	CONDUIT RUN CONCEALED IN CEILING OR WALL CONSTRUCTION.
	HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD LN12; CIRCUITS 1, 3, 5.
	SYMBOL NOTATIONS: UPPER CASE LETTERS ADJACENT TO SYMBOLS INDICATE A UNIT TYPE. SEE APPROPRIATE SCHEDULE OR SPECIFICATIONS.

### ELECTRICAL SYMBOL LEGEND

HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
AS NOTED		SURFACE MOUNTED LIGHT (TYPE DENOTED)	AS NOTED		RECEPT ON DROP CORD (DUPLEX SHOWN)	90°b		FIRE ALARM HORN
AS NOTED		FLOODLIGHT (TYPE DENOTED)	AS NOTED		RECEPT ON CORD REEL (DUPLEX SHOWN)	90°b		FIRE ALARM HORN / STROBE
PER SCHED		RECESSED LIGHT (TYPE DENOTED)	AS NOTED		MULTIOUTLET ASSEMBLY	90°b		FIRE ALARM STROBE
		POLE MOUNTED LIGHT (TYPE DENOTED)			EQUIPMENT CONNECTION	90°b		FIRE ALARM CHIME
		SURFACE LIGHT (TYPE DENOTED)			POWER POLE (OPEN OFFICE STYLE)	90°b		FIRE ALARM CHIME / STROBE
		PENDANT OR HUNG LIGHT (TYPE DENOTED)	18"		JUNCTION BOX (WALL/FLOOR/CEILING)	90°b		FIRE ALARM SPEAKER
		RECESSED LIGHT (TYPE DENOTED)	72°b		PULL BOX	90°b		FIRE ALARM SPEAKER / STROBE
		STRIP LIGHT (TYPE DENOTED)	72°b		CIRCUIT BREAKER PANEL	90°b		SMOKE DETECTOR
AS NOTED		TRACK LIGHT/FLOOD LIGHT (TYPES DENOTED)	72°b		LIFE SAFETY CIRCUIT BREAKER PANEL	90°b		HEAT DETECTOR
96"		EMERGENCY BATTERY LIGHT (TYPE DENOTED)	72°b		CRITICAL CIRCUIT BREAKER PANEL	8°d		DUCT SMOKE DETECTOR
12"x3"		EXIT SIGN (TYPE DENOTED)	72°b		EQUIPMENT CIRCUIT BREAKER PANEL	AS NOTED		REMOTE TEST/STATUS STATION
AS NOTED		LIGHT FIXTURE ON EM / LIFE SAFETY BRANCH	72°b		POWER OR DISTRIBUTION PANEL	46°c		F.A. PULLSTATION
AS NOTED		LIGHT FIXTURE ON CRITICAL BRANCH	72°b		SWITCHBOARD	46°c		F.A. DOOR HOLDER
		LIGHT ON CORD REEL (TYPE DENOTED)	72°b		SPECIAL CABINET (TYPE DENOTED)	46°c		FIRE ALARM SHUT DOWN RELAY
46"		SINGLE POLE SWITCH	72°b		TRANSFORMER (TYPE DENOTED)	46°c		SPRINKLER FLOW SWITCH
46"		2 POLE SINGLE THROW SWITCH	72°b		GENERATOR (KVA DENOTED)	46°c		SPRINKLER VALVE TAMPER SWITCH
46"		3-WAY SWITCH	72°b		MOTOR	46°c		FIRE ALARM CONTROL PANEL
46"		4-WAY SWITCH	72°b		MAG. MOTOR STARTER	46°c		FIRE ALARM REMOTE ANNUNCIATOR
46"		KEYED SWITCH	72°b		COMB. MOTOR STARTER (NON-FUSED)	46°c		ELECTRIC STRIKE
46"		PILOT SWITCH	72°b		COMB. MOTOR STARTER (FUSED)	46°c		MAGNETIC LOCK
46"		DIMMER SWITCH	72°b		SAFETY DISC. SW. (NON-FUSED)	46°c		REQUEST TO EXIT
46"		3-WAY DIMMER SWITCH	72°b		SAFETY DISC. SW. (FUSED)	46°c		DOOR CONTACTS / DOOR SWITCH
46"		OCCUPANCY SENSOR SWITCH	72°b		CONTACTORS	46°c		CARD READER
46"		MOMENTARY CONTACT SWITCH	72°b		BUS DUCT WITH PLUG-IN DISCONNECT (FUSED)	46°c		KEYPAD
46"		TIMER SWITCH	AS NOTED		VARIABLE FREQUENCY DRIVE	AS NOTED		MOTION DETECTOR
46"		TIME DELAY SWITCH	72°b		RELAY	AS NOTED		CCTV CAMERA
46"		FAN SPEED CONTROL	72°b		ENCLOSED CIRCUIT BREAKER	AS NOTED		PROJECTOR
46"		MOTOR HORSEPOWER RATED SWITCH	72°b		OCCUPANCY SENSOR	46°c		NURSE CALL EMERG. STATION
46"		LOW-VOLTAGE SWITCH	AS NOTED		PHOTOCELL/PHOTOSENSOR	46°c		NURSE CALL CODE BLUE EMERG. STATION
46"		LOW-VOLTAGE DIMMING SWITCH	46"		THERMOSTAT	46°c		NURSE CALL DUTY STATION
46"		MANUAL MTR. STR. (W/OVERLOADS)	46"		HAND OR HAIR DRYER (SEE ARCH SPEC)	46°c		NURSE CALL STAFF STATION
18"		SINGLE RECEPT (SLASH INDICATES MOUNTING ABOVE FINISHED COUNTER)	46"		SOLENOID VALVE	46°c		NURSE CALL STAFF ASSIST STATION
18"		DUPLEX RECEPT (SLASH INDICATES MOUNTING ABOVE FINISHED COUNTER)	46"		PUSH BUTTON	46°c		NURSE CALL SINGLE PATIENT STATION
18"		USB RECEPTACLE	46"		POWER-OPERATED DOOR ACTUATOR	46°c		NURSE CALL DUAL PATIENT STATION
18"		GFI DUPLEX RECEPT. (SLASH INDICATES MOUNTING ABOVE FINISHED COUNTER)	46"		EMERGENCY POWER OFF PUSH BUTTON	46°c		NURSE CALL DOME LIGHT
18"		DEAD FRONT GFI (SLASH INDICATES MOUNTING ABOVE FINISHED COUNTER)	46"			84"		NURSE CALL ZONE LIGHT
18"		DUPLEX SPLIT RECEPT	46"			84"		NURSE CALL MASTER STATION
18"		DUPLEX ISOLATED GROUND RECEPT	46"			84"		NURSE CALL EQUIPMENT CABINET
18"		DUPLEX RECEPT ON EMERGENCY CIRCUIT	46"			84"		NURSE CALL ANNUNCIATOR PANEL
18"		FOURPLEX RECEPT. (SLASH INDICATES MOUNTING ABOVE FINISHED COUNTER)	46"			46"		
18"		GFI FOURPLEX RECEPT. (SLASH INDICATES MOUNTING ABOVE FINISHED COUNTER)	46"			46"		
18"		FOURPLEX RECEPT ON EMERGENCY CIRCUIT	46"			46"		
18"		FLOOR RECEPT. (DUPLEX SHOWN)	46"			46"		
AS NOTED		SPECIAL RECEPTACLE	46"			46"		

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED.  
a. DISTANCE ABOVE TOP OF DOOR FRAME  
b. DISTANCE TO TOP OF EQUIPMENT OR DEVICE  
c. DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT  
d. DISTANCE BELOW CEILING



TSP, Inc.  
1500 Highway 52 North  
Rochester, MN 55901

(507) 288-8155  
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CITY OF  
MARSHALLTOWN  
ANSON PARK SHELTER  
RENOVATION  
#PRK20001

MARSHALLTOWN, IOWA

ISSUES

ISSUE	DATE	DESCRIPTION
ISSUE DATE	04/14/2021	DRAWN BY CRN
PROJECT #	01190805	CHECKED BY DLB

SHEET TITLE

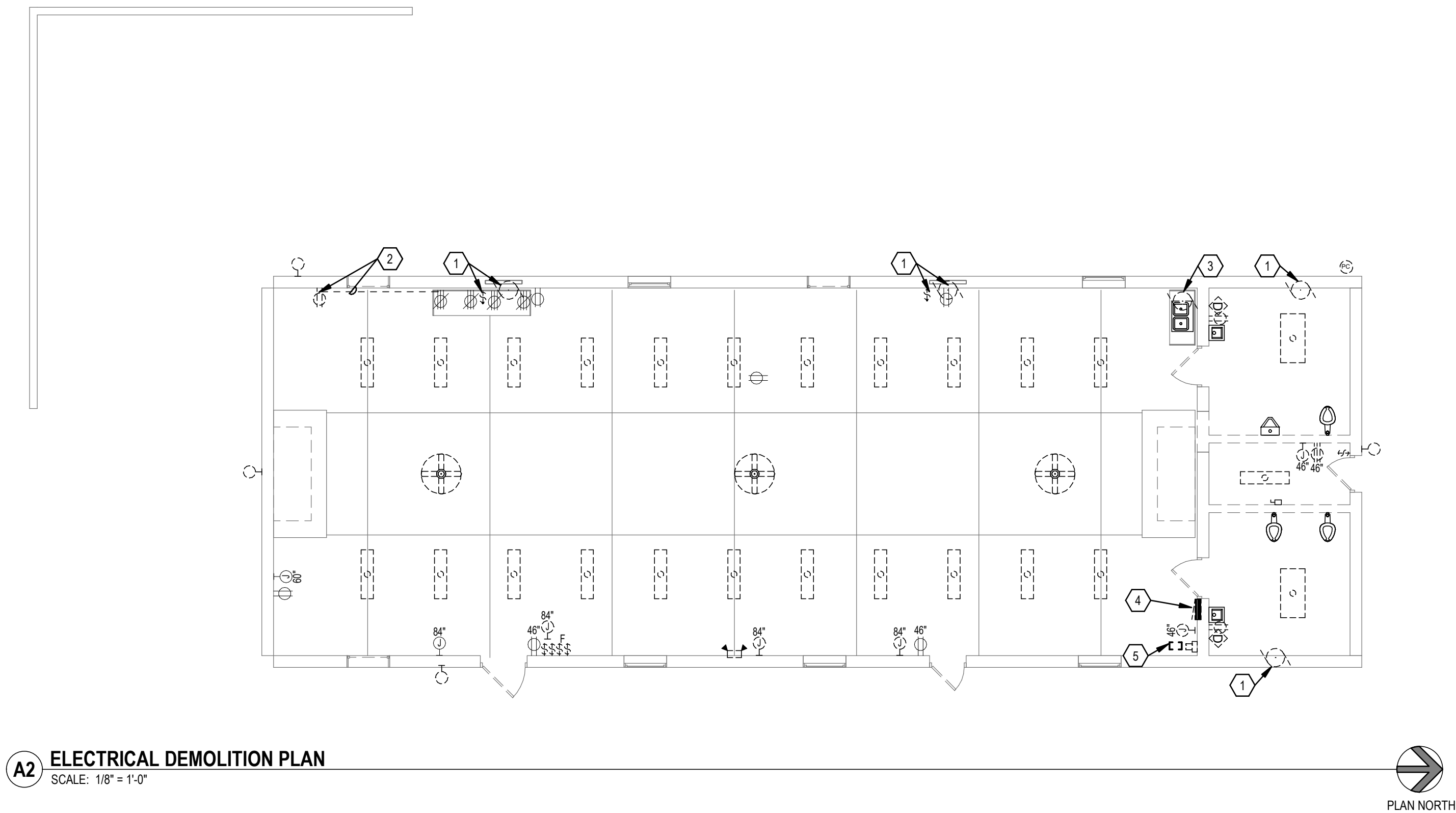
ELECTRICAL SYMBOLS,  
ABBREVIATIONS, AND  
GENERAL NOTES

SHEET NUMBER

E-001

LISTED DRAWINGS SCALE(S) UNLESS REDUCED FROM ORIGINAL 24" x 36" FORMAT

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### KEYNOTES

- 1 DISCONNECT POWER FROM EXHAUST FAN. REMOVE CONDUCTORS BACK TO NEAREST SPLICE.
- 2 REMOVE OUTLET AND SURFACE CONDUIT TO FOURPLEX OUTLET REMAINING.
- 3 DISCONNECT POWER FROM WATER HEATER. REMOVE CONDUCTORS BACK TO SOURCE.
- 4 DISCONNECT EXISTING SERVICE AND BRANCH CIRCUITS AND REMOVE PANEL AND METER. EXTEND 12 EXISTING BRANCH CIRCUITS TO NEW PANEL L/N1 LOCATION.
- 5 REMOVE OBSOLETE TIMECLOCK AND ALL CABLING.



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ELECTRICAL  
DEMOLITION PLAN

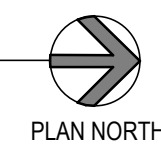
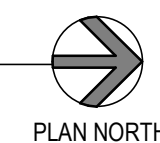
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PROJECT #		CHECKED BY
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SHEET TITLE		

## LIGHTING PLAN AND POWER AND TECHNOLOGY PLAN

**E-102**

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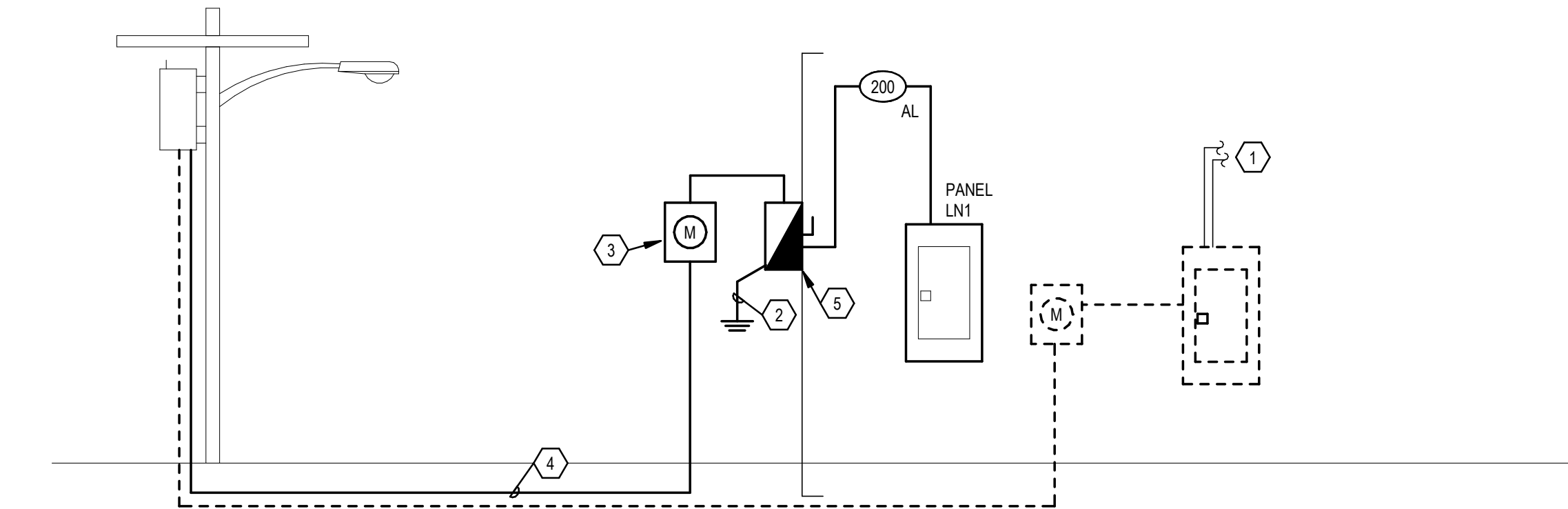
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PANELBOARD: LN1													
LOCATION: MECHANICAL/ CUSTODIAL 103					VOLTAGE: 120/240 V, 1 ø 3 W.								
MOUNTING: SURFACE TYPE 1					A.I.C. RATING: 10,000 AMPS SYMMETRICAL								
MAIN DEVICE: 200 A MCB					SPECIAL: LOAD CENTER PANEL								
BUS AMPS: 200 AMPS													
N	LOAD DESCRIPTION	RATING	P	CKT	A	B	CKT	P	RATING	LOAD DESCRIPTION	N		
	EXISTING LOAD	20 A	1	1	0.0	0.0		2	1	20 A	EXISTING LOAD		
	EXISTING LOAD	20 A	1	3			0.0	0.0	4	1	20 A	EXISTING LOAD	
	EXISTING LOAD	20 A	1	5	0.0	0.0		6	1	20 A	EXISTING LOAD		
	EXISTING LOAD	20 A	1	7			0.0	0.0	8	1	20 A	EXISTING LOAD	
	EXISTING LOAD	20 A	1	9	0.0	0.0		10	1	20 A	EXISTING LOAD		
	EXISTING LOAD	20 A	1	11			0.0	0.0	12	1	20 A	EXISTING LOAD	
	LTG - 101-103	20 A	1	13	1.1	0.4		14	1	20 A	LTG - 104-106		
1	HAND DRYER - 104	20 A	1	15			1.7	1.7	16	1	20 A	HAND DRYER - 105	1
	REC BANQUET HALL 101	20 A	1	17	0.2	0.2		18	1	20 A	REC BANQUET HALL 101		
	REC - 104 -106	20 A	1	19			0.7	5.3	20				
	RTU-2	60 A	2	21	5.3	5.3		22		2	60 A	RTU-1	
				23			5.3	0.2	24	1	20 A	REC BANQUET HALL 101	
	EWB-1	30 A	2	25	2.8	0.0		26	1	15 A	EF-1		
				27			2.8	0.0	28	1	15 A	EF-2	
	EUH-4	20 A	2	29	1.5	1.5		30					
				31			1.5	1.5	32	2	20 A	EUH-1	
	EUH-3	15 A	2	33	0.8	0.0		34	1	20 A	SPARE		
				35			0.8	0.0	36	1	20 A	SPARE	
	EUH-2	15 A	2	37	0.8	0.0		38	1	20 A	SPARE		
				39			0.8	0.0	40	--	--	SPACE	
--	SPACE	--	--	41	0.0	0.0		42	--	--	SPACE	--	--
TOTAL LOAD:		20 KVA		22 KVA									
TOTAL AMPS:		163 A		181 A									
LOAD CLASSIFICATION		CONNECTED	DEMAND	ESTIMATED		PANEL TOTALS							
Other		0 VA	0.00%	0 VA									
REC		1260 VA	100.00%	1260 VA		CONNECTED LOAD:				41252 VA			
LTG		1514 VA	125.00%	1892 VA		ESTIMATED DEMAND:				41604 VA			
SPEC		35760 VA	100.00%	35760 VA		CONNECTED CURRENT:				172 A			
Appliance - Dwelling Unit		3450 VA	100.00%	3450 VA		EST. DEMAND CURRENT:				173 A			
MTR		48 VA	112.50%	54 VA									
NOTES (N):													
1. PROVIDE LOCKING DEVICE FOR CIRCUIT BREAKER.													
2. GROUND FAULT CIRCUIT PROTECTION 4 - 6 mA.													
3. SURGE PROTECTIVE DEVICE (SPD)													

LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG SERIES	DESCRIPTION	VOLTAGE	MOUNTING	BALLAST/DRIVER	LAMP	WATTAGE	EQUIVALENTS
A1S	SATCO	NUVO 62-1184	1'X4' SURFACE TROFFER, BRONZE FINISH, 3600 LUMENS	120 V	SURFACE/CEILING	LED STANDARD	LED	45 W	LUMAX
B1S	SATCO	NUVO 62-1183	2'X2' SURFACE TROFFER, BRONZE FINISH, 3500 LUMENS	120 V	SURFACE/CEILING	LED STANDARD	LED	45 W	LUMAX
E1	DUAL-LITE	LT U R B 1 - 03L	EXIT LIGHT WITH EMERGENCY HEADS	120 V	WALL	--	LED	5 W	EMERG-LITE
E2	DUAL-LITE	EVHC6IB	EMERGENCY LED BUGEYE FIXTURE	120 V	WALL	LED STANDARD	LED	6 W	EMERG-LITE
N4	COLUMBIA LIGHTING	LCL 4 30 ML E U	4' LED STRIP LIGHT	120 V	SURFACE/CEILING	LED STANDARD	LED	42 W	METALUX
N4E	COLUMBIA LIGHTING	LCL 4 30 ML E U ELL14	4' LED STRIP LIGHT, EMERGENCY BATTERY BACKUP	120 V	SURFACE/CEILING	LED STANDARD	LED	42 W	METALUX
W2	NUVO LIGHTING	62-914	2' VANITY FIXTURE	120 V	WALL	LED STANDARD	LED	26 W	INDESSA
BB	ASL LIGHTING	W12ND-40K-S12	CANOPY FIXTURE, 1200 LUMENS	120 V	SURFACE/CEILING	LED STANDARD	LED	12 W	SUBMIT FOR PRIOR APPROVAL

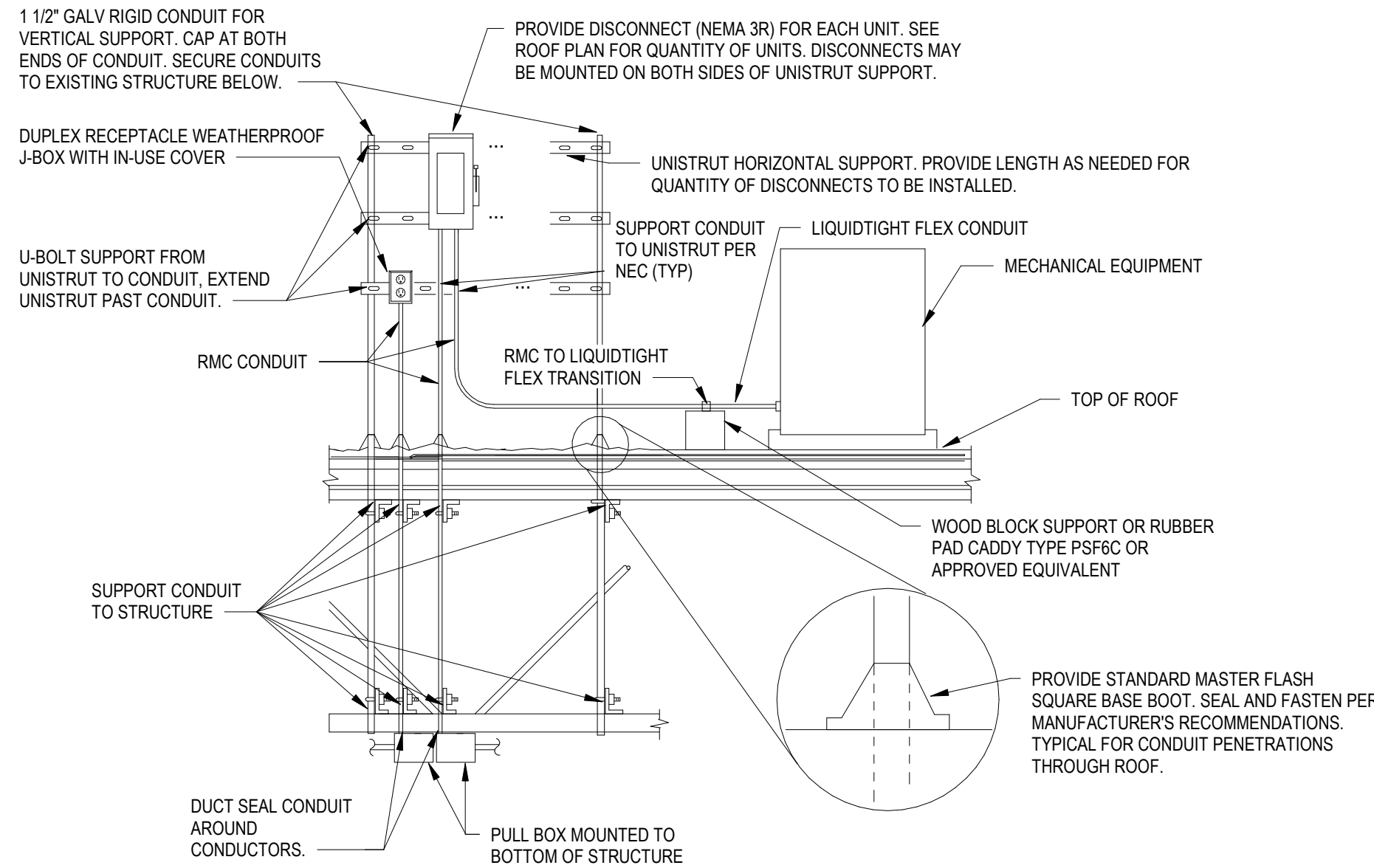
KEYNOTES	
1	EXTEND 12 EXISTING 20A, 1 POLE CIRCUITS TO NEW PANEL LN1 LOCATION. EXTEND WIRING.
2	GROUND PER N.E.C. AND DETAIL A4 THIS SHEET.
3	ALLIANT ENERGY TO PROVIDE METER, DIVISION 26 TO PROVIDE METER SOCKET PER UTILITY'S REQUIREMENTS.
4	COORDINATE WITH POWER UTILITY COMPANY, ALLIANT ENERGY, FOR INCREASING SIZE OF SERVICE. ALLIANT ENERGY SHALL PROVIDE NEW CONDUIT AND CONDUCTORS FROM UTILITY OWNED TRANSFORMER TO METER SOCKET. COORDINATE WITH UTILITY IF EXISTING CONDUIT/WIRING CAN BE RE-USED. THE EXISTING ADDRESS IS 311 E ANSON ST, PARK, MARSHALLTOWN, IOWA.
5	PROVIDE 200A SERVICE RATED FUSED DISCONNECT SWITCH IN A NEMA 3R ENCLOSURE. DISCONNECT'S EXPECTED AIC RATING SHALL BE GREATER THAN 6800 AMPS, COORDINATE AMOUNT WITH SHORT CIRCUIT STUDY AND MARK DISCONNECT ACCORDING TO SPECIFICATIONS.



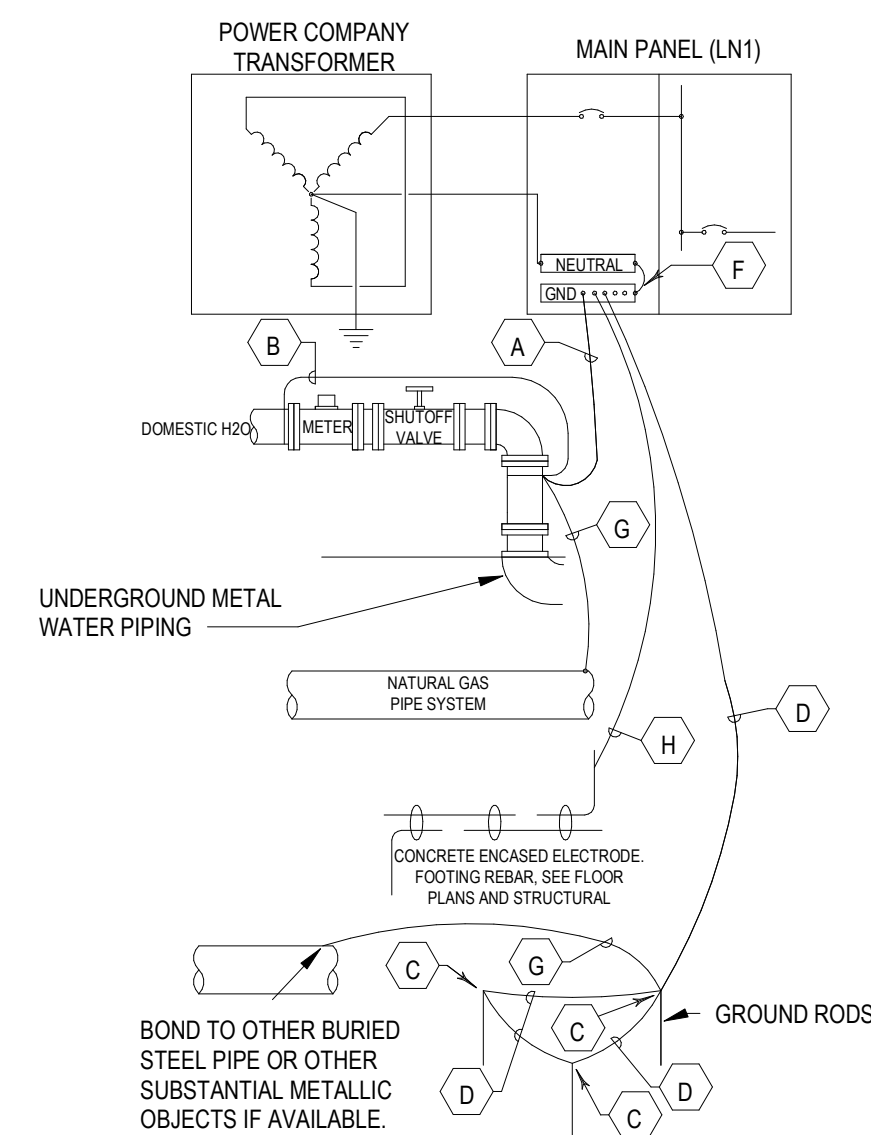
**A2** RISER DIAGRAM - NEW AND DEMO  
SCALE: NOT TO SCALE

CIRCUIT SCHEDULE				
MARK (AMPACITY)	SERVICE CONDUCTORS PH/N-C	4-WIRE (W/NEUTRAL) PH/N-GND-C	3-WIRE (NO NEUTRAL) PH-GND-C	ALUMINUM FEEDERS 4-WIRE (W/NEUTRAL) PH/N-GND-C
15	12-3/4"	12-12-3/4"	12-12-3/4"	NOT ALLOWED
20	12-3/4"	12-12-3/4"	12-12-3/4"	NOT ALLOWED
25	10-3/4"	10-10-3/4"	10-10-3/4"	NOT ALLOWED
30	10-3/4"	10-10-3/4"	10-10-3/4"	NOT ALLOWED
35	8-1"	8-10-1"	8-10-3/4"	NOT ALLOWED
40	8-1"	8-10-1"	8-10-3/4"	NOT ALLOWED
45	6-1 1/4"	6-10-1 1/4"	6-10-1"	NOT ALLOWED
50	6-1 1/4"	6-10-1 1/4"	6-10-1"	NOT ALLOWED
60	6-1 1/4"	6-10-1 1/4"	6-10-1"	NOT ALLOWED
70	4-1 1/2"	4-8-1 1/2"	4-8-1 1/4"	NOT ALLOWED
80	3-1 1/2"	3-8-1 1/2"	3-8-1 1/2"	NOT ALLOWED
90	3-1 1/2"	3-8-1 1/2"	3-8-1 1/2"	NOT ALLOWED
100	2-1 1/2"	2-8-1 1/2"	2-8-1 1/2"	1/0-6-2"
110	2-1 1/2"	2-6-1 1/2"	2-6-1 1/2"	1/0-4-2"
125	1-2"	1-6-2"	1-6-1 1/2"	2/0-4-2"
150	1/0-2"	1/0-6-2"	1/0-6-2"	3/0-4-2 1/2"
175	2/0-2"	2/0-6-2"	2/0-6-2"	4/0-4-2 1/2"
200	3/0-2 1/2"	3/0-6-2 1/2"	3/0-6-2"	250 KCML-4-3"

- MISCELLANEOUS NOTES:
- ALL CIRCUITS (BRANCH, FEEDER, AND SERVICE) SHALL BE SIZED PER THE OVERCURRENT DEVICE AND THIS CIRCUIT SCHEDULE UNLESS OTHERWISE NOTED. THE ABOVE CHART IS THE MINIMUM CONDUCTOR AND CONDUIT SIZE FOR THE OVERCURRENT DEVICE. CHART DOES NOT INCLUDE REQUIRED VOLTAGE DROP.
  - CIRCUITS SHALL BE 4 WIRE (4W) UNLESS DENOTED WITH "3W" (3 WIRE), OR IS THE SERVICE ENTRANCE FROM THE UTILITY.
  - ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR.
  - ALL CONDUCTORS SHALL BE COPPER UNLESS NOTED OTHERWISE.
  - THE NEUTRAL SHALL BE THE SAME SIZE AS THE PHASE CONDUCTORS UNLESS 3-WIRE, OR NOTED OTHERWISE.
  - SINGLE PHASE CIRCUITS SHALL BE SIZED PER THE OVERCURRENT DEVICE UNLESS OTHERWISE NOTED. SIZE THE CONDUCTORS AND CONDUIT PER THE 4-WIRE COLUMN OF THIS CHART BUT REDUCE THE AMOUNT OF PHASE CONDUCTORS AS REQUIRED.



**B4** ROOF MOUNTED EQUIPMENT  
SCALE: NOT TO SCALE



KEYNOTES

- GROUNDING ELECTRODE CONDUCTOR TO GROUNDING ELECTRODE, AS SHOWN. SIZE PER NEC TABLE 250.66.
- BOND WATER SYSTEMS AROUND ALL VALVES AND METERS PER NEC.
- CONNECT GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD WITH GROUND CONNECTOR.
- GROUNDING ELECTRODE CONDUCTOR TO GROUNDING ELECTRODE, AS SHOWN. #6 AWG BARE COPPER CONDUCTOR.
- NOT USED
- NOT USED
- BOND METAL WATER PIPING AND OTHER METAL PIPING SYSTEMS WITH BONDING JUMPER SIZED PER NEC.
- GROUND ELECTRODE CONDUCTOR TO GROUNDING ELECTRODE, AS SHOWN. #4 AWG COPPER CONDUCTOR.

**A4** GROUNDING DETAIL  
SCALE: NOT TO SCALE



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ELECTRICAL DETAILS,  
RISERS, AND  
SCHEDULES

SHEET NUMBER

E-501

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