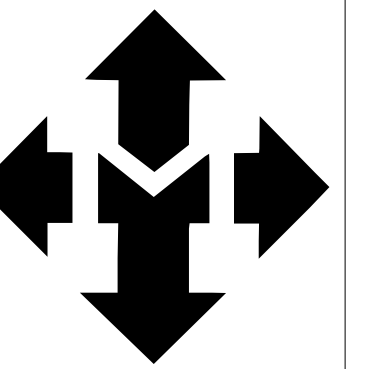
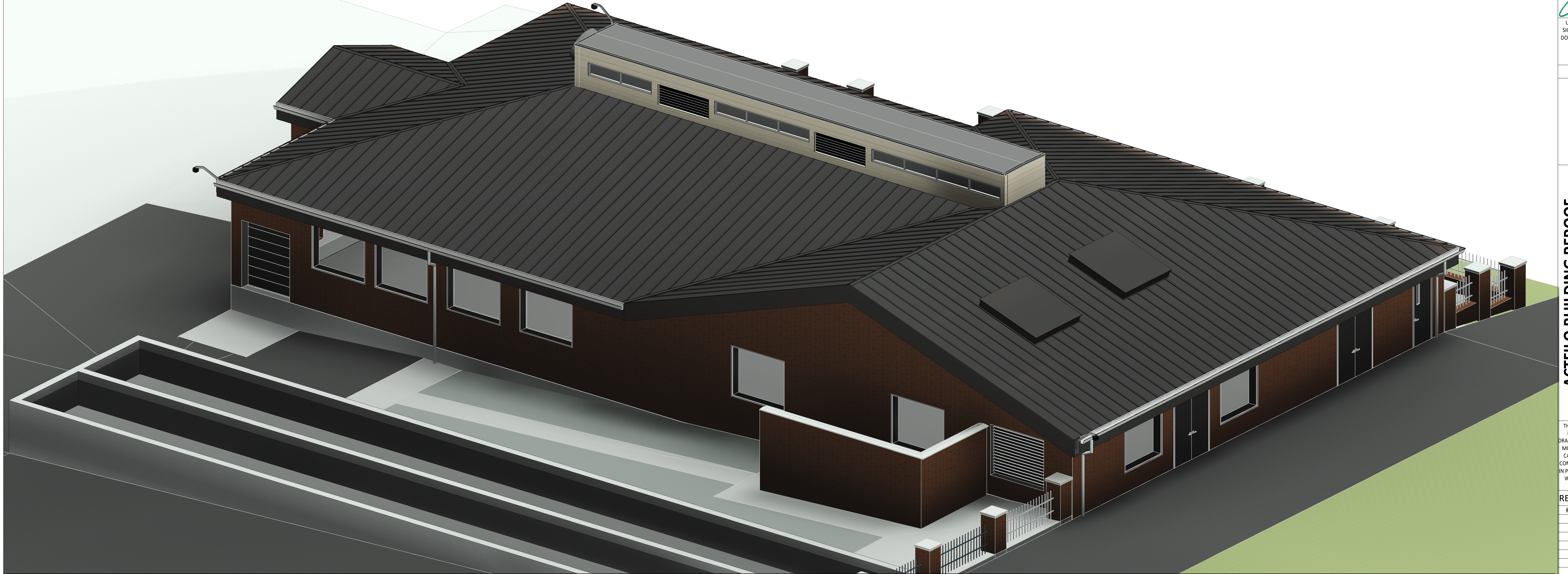


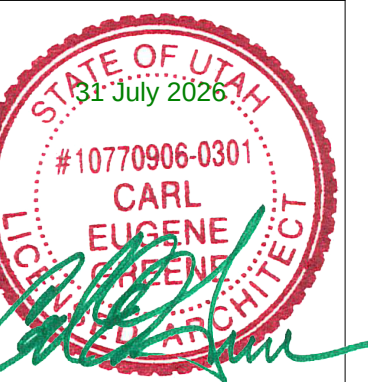
ACTFILO BUILDING REROOF

ROOF REPLACEMENT - AUGUST 2026

VOLUME 2 OF 3



McNEIL
ENGINEERINGTM
610 SOUTH SANDY PARKWAY,
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ACIFLO BUILDING REROUT
SOUTHEAST WATER TREATMENT PLANT
11574 Wyndcastle Dr.
Sandy, UT 84092

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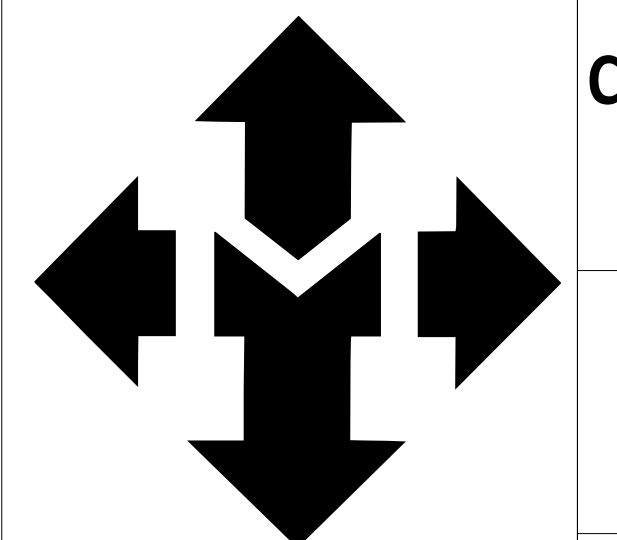
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PROJECT NO.	24764.B
DRAWN BY:	CG
CHECKED BY:	CEG
DUPLICATE DATE:	MARCH 2026
PROJECT/PROPERTY NO.	

COVER SHEET

G001

CONSTRUCTION DOCS.



DESIGN TEAM

ROOFING ARCHITECT
McNEIL ENGINEERING
8610 SOUTH SANDY PARKWAY, SUITE 200
SANDY, UTAH 84070
Phone: **801.255.770**

ABBREVIATIONS

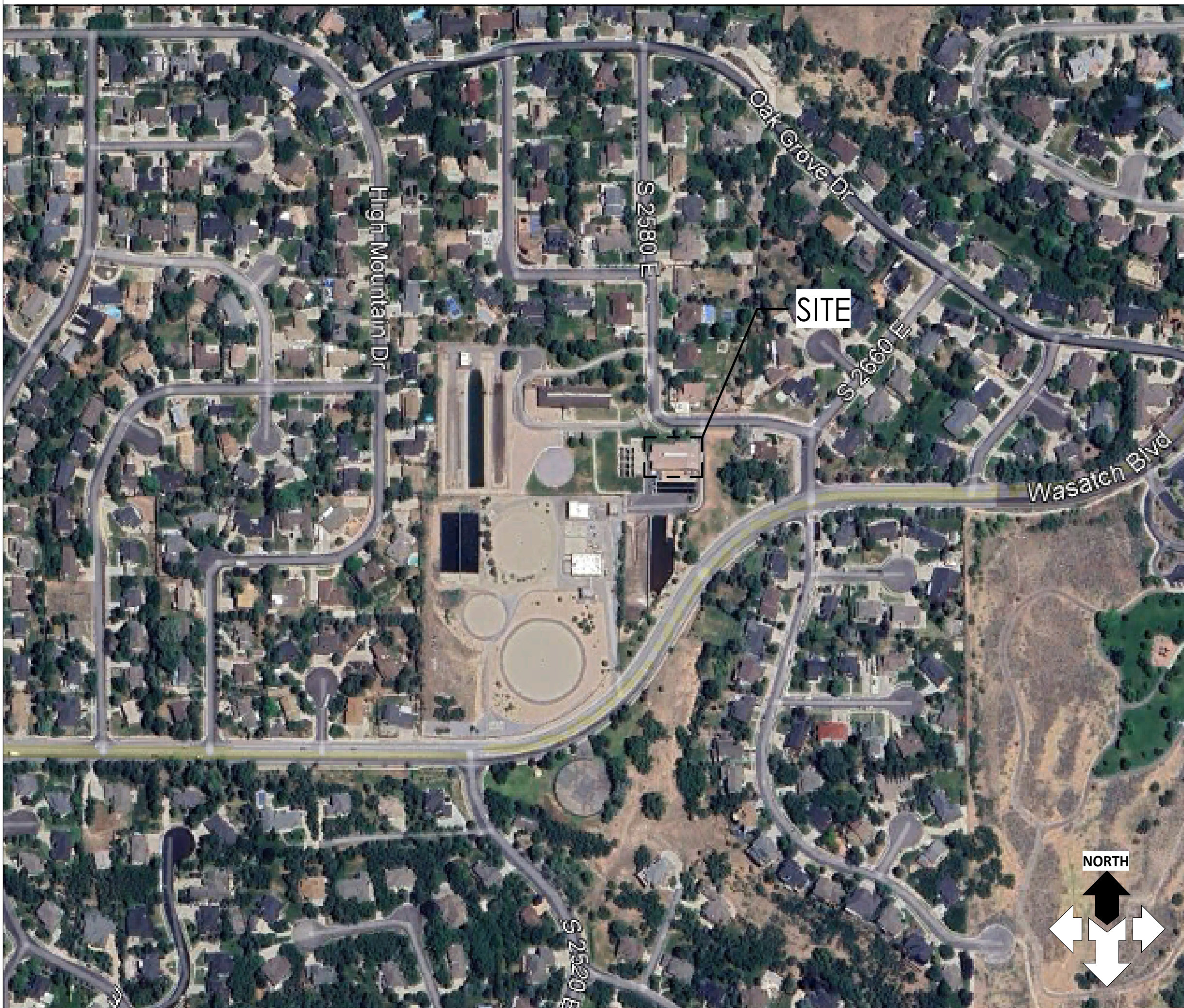
ABBR	Definition
&	AND
@	AT
Ø	DIAMETER
(E), EXIST.	EXISTING
(N)	NEW
d	PENNY
#	POUND OR NUMBER
A	
A.F.F.	ABOVE FINISHED FLOOR
AC.	ACOUSTIC
ADD.	ADDENDUM
AC.	AIR CONDITIONING
ALT.	ALTERNATE
AL/ALUM.	ALUMINUM
A.B.	ANCHOR BOLT
ARCH	ARCHITECT (URAL)
ASP.	ASPHALT
B	
BSMT.	BASEMENT
B.M.	BENCHMARK
BLKG.	BLOCKING
BD.	BOARD
B.O.	BOTTOM OF
B.D.G.	BUILDING
C	
CABT.	CABINET
C.I.P.	CAST IN PLACE
C.B.	CATCH BASIN
C.G.	CEILING
CL.	CENTER LINE
C.T.	CERAMIC TILE
CH.	CHANNEL
C.O.	CLEAN OUT
CL.R.	CLEAR
CL.	CLOSET
COL.	COLUMN
CONC.	CONCRETE
CMU	CONCRETE MASONRY UNIT
COND.	CONDITION
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CJ	CONTROL JOINT
D	
D.P.	DAMP PROOFING
D.B.	DECK BEARING
DIAG.	DIAGONAL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DWL.	DOWEL
DN.	DOWN
D.S.	DOWN SPOUT
D.W.V.	DRAINAGE WASTE VENT

ABBR	Definition
DWG.	DRAWING
E	
EA	EACH
E.W.C.	ELEC. WATER COOLER
EL./ELEC.	ELECTRIC
ELEV.	ELEVATION
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXH.	EXHAUST
EXIST.	EXISTING
E.J.	EXPANSION JOINT
EXT.	EXTERIOR
F	
FT.	FEET
F.V.F.V.	FIELD VERIFY
FIN.	FINISH(ED)
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
FIXT.	FIXTURE
FL	FLASHING
FD	FLOOR DRAIN
FURN	FURNACE
G	
GPF	GALLONS PER FLUSH
GALV.	GALVANIZED
GA.	GAUGE
G.C.	GENERAL CONTRACTOR
G.S.N.	GENERAL STRUCTURAL NOTES
GL.	GLASS
GR/L	GRILLE
GRD.	GROUND
GYP.	GYPSUM
H	
H.C.	HANDY-CAP
HDW.	HARDWARE
HDWD.	HARDWOOD
HTR.	HEATER
HT.	HEIGHT
H.P.	HIGH POINT
H.S.	HIGH SLOPE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.B.	HOSE BIB
H.W.	HOT WATER
HR.	HOUR
I	
INCH	
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
INV.	INVERT
J	
JAN.	JANITOR
JT.	JOINT

ABBR	Definition
JST.	JOIST
L	
LAM.	LAMINATED
LDG.	LANDING
LAV.	LAVATORY
LT.	LIGHT
L.W.C.	LIGHT WEIGHT CONCRETE
LVR	LOUVER
L.S.	LOW SLOPE
M	
M.B.	MACHINE BOLT
MH.	MANHOLE
MFR.	MANUFACTURER
M.O.	MASONRY OPENING
MATL.	MATERIAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MTL.	METAL
MIN.	MINIMUM
MLDG.	MOLDING
MULL.	MULLION
N	
N.G.	NATURAL GRADE
NOM.	NOMINAL
NA	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
N.O.	NUMBER
O	
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.R.D.	OVERFLOW ROOF DRAIN
O.F.S.	OVERFLOW SCUPPER
O.H.	OVERHANG
O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED, OWNER INSTALLED
P	
PT.	PAINT
PTD.	PAINTED
PR.	PAIR
PNL.	PANEL
P	PENNY
P.L.	PLASTIC LAMINATE
PL.	PLATE
PLBG.	PLUMBING
P.S.I.	POUND PER SQUARE INCH
P.S.F.	POUNDS PER SQUARE FOOT
R	
RAD.	RADIUS
REC.	RECOMMENDATION
RE.REF.	REFERENCE
RCP.	REFLECTED CEILING PLAN
REG.	REGISTER
REQD.	REQUIRED

ABBR	Definition
R.A.	RETURN AIR
REV.	REVISION
R.D.	ROOF DRAIN
RFG.	ROOFING
RM.	ROOM
RGH.	ROUGH
RND.	ROUND
S	
SCR.	SCREW
SEC./SECT.	SECTION
SEL.	SELECT
SHT.	SHEET
SIM.	SIMILAR
SLDG.	SLIDING
SM.	SMOOTH
SPEC.	SPECIFICATION
SPL.	SPLASH
SQ.	SQUARE
S.S.	STAINLESS STEEL
STD.	STANDARD
STRUC.	STRUCTURE
S.A.	SUPPLY AIR
SUSP.	SUSPENDED
SW.BD.	SWITCHBOARD
T	
TEL.CO	TELEPHONE COMPANY
T.G.	TEMPERED GLASS
T&G	TONGUE & GROOVE
T&B	TOP & BOTTOM
T.O.	TOP OF
T.O.C.	TOP OF CURB
T.O.D.	TOP OF DECK
T.O.P.	TOP OF PARAPET
TYP.	TYPICAL
U	
U.N.O.	UNLESS NOTED OTHERWISE
V	
V.	VENT
V.T.R.	VENT THROUGH ROOF
VERT.	VERTICAL
V.G.	VERTICAL GRAIN
VEST.	VESTIBULE
V.C.T.	VINYL COMPOSITION TILE
V.C.P.	VITREOUS CLAY PIPE
W	
W.C.	WATER CLOSET
W.H.	WATER HEATER
W.R.	WATER RESISTANT
W.P.	WATERPROOF
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
W.F.	WIDE FLANGE
WDW.	WINDOW
W/	WITH
W/O	WITHOUT
WD.	WOOD

VICINITY MAP



CODE ANALYSIS

APPLICABLE CODES

International Building Code: **2021**

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND SHALL REPORT TO THE ARCHITECT ANY UNKNOWN CONDITIONS, ERRORS, OR CONFLICTS IN THE DRAWINGS BEFORE BEGINNING WORK.
2. INSTALL A CRICKET AT ALL ROOF HATCHES.
3. EXISTING ROOF PENETRATIONS WILL BE FLASHED AND PAINTED TO MATCH COLOR OF STANDING SEAM METAL.
4. ROOF GUTTERS, ROOF VENTS, ROOF HATCHES, ETC. WILL BE SET ON A CURB A MINIMUM OF 10" ABOVE THE HIGHEST POINT OF THE FINISHED ROOF.
5. ALL NEW METAL WILL BE GALVANIZED OR PRE-FINISHED, CAULKING WILL BE SAME COLOR AS METAL.
6. BEFORE FABRICATION OF ANY SHEET METAL WORK, SUBMIT SHOP DRAWINGS TO CONSULTANT FOR REVIEW AND APPROVAL. ALL WORK TO CONFORM TO NRCA OR SMACNA DETAILS AND REQUIREMENTS WHERE NOT SPECIFICALLY DETAILED OTHERWISE.
7. RAIN GUTTERS & DOWNSPOUTS HEADS: RIVETS & SCREWS TO BE PAINTED SAME COLOR (NO SPRAY PAINT). USE POP RIVETS AT ALL CONNECTIONS FROM GUTTERS TO DOWNSPOUT. DOWNSPOUTS TO CONNECT TO EXISTING SUB-GRADE DRAINAGE SYSTEM. WHERE THERE IS EXISTING DRAINAGE SYSTEM, PROVIDE NEW CONNECTION FITTING. DOWNSPOUTS NOT CONNECTED TO DRAINAGE SYSTEM WILL EMPTY INTO A NEWLY EXISTING 12"x30" PRE-CAST SPLASH BLOCK. ALL JOINTS TO BE SEALED WATERTIGHT.
8. BEFORE REMOVAL OF ROOFING SYSTEM(S) AND BEFORE INSTALLATION OF ALL NEW PIPE JACKS AND PIPE FLASHINGS, VERIFY THAT ALL MECHANICAL FLUES AND VENTS ARE STRAPPED TO PREVENT ANY SETTLEMENT OR SHIFTING INTO ROOF. PRIOR TO COMPLETION OF WORK, CONTRACTOR TO VERIFY THAT MECHANICAL EQUIPMENT VENTS DO HAVE POSITIVE REVERSE FLOW TO ROOF VENT AND FLUE IS SECURED TO ORIGINAL HEIGHT AND ALL CONNECTIONS ARE TIGHT AND SECURE.
9. ANY SIDING, FASCIA, ETC. THAT NEEDS TO BE REMOVED TO COMPLETE THIS JOB IS TO BE PART OF THE CONTRACT. CARE MUST BE TAKEN TO ENSURE THAT ALL ITEMS TO BE REINSTALLED ARE NOT DAMAGED DURING REMOVAL AND/OR INSTALLATION. ALL PIECES THAT ARE DAMAGED WILL BE REPLACED BY CONTRACTOR.
10. AT THE END OF CONSTRUCTION, CONTRACTOR IS TO CLEAN OUT AND FLUSH ALL RAIN GUTTERS & DOWNSPOUTS TO MAKE SURE THEY ARE NOT PLUGGED AND ARE IN WORKING CONDITION.
11. CONTRACTOR SHALL WORK WITH LOCAL REPRESENTATIVE ON SCHEDULING TO INSURE CONTINUED USE OF THE BUILDING. NEITHER THE CONTRACTOR NOR ANY OF HIS PEOPLE SHALL HAVE ACCESS TO THE BUILDING WITHOUT PRIOR AUTHORIZATION.
12. ALL SAFETY STANDARDS AND REQUIREMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ADEQUATE BARRICADES AND PREPARE THE DEVELOPMENT OF A SAFETY PLAN. ALL CONSTRUCTION SAFETY PASSAGES SHALL BE PROVIDED AS REQUIRED. PRIOR TO DELIVERY OF MATERIALS TO CONSTRUCTION ZONE AND REMOVAL OF WASTE FROM SITE, THE CONTRACTOR SHALL CHECK WITH THE OWNER FOR AN ACCEPTABLE ROUTE AND TIME.
13. CONTRACTOR TO COMPLY WITH ALL MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
14. STARTING FROM NOTICE TO PROCEED TO SUBSTANTIAL COMPLETION ANY DAMAGE TO THE BUILDING OR ITS CONTENTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
15. CONTRACTOR RESPONSIBLE TO KEEP BUILDING WATERTIGHT AT ALL TIMES.
16. CONTRACTOR TO SUPPLY AN ON SITE PORTABLE RESTROOM. FACILITY RESTROOMS ARE NOT TO BE USED BY CONTRACTOR OR CONTRACTOR'S EMPLOYEES. LOCATION OF PORTABLE RESTROOM TO BE DETERMINED DURING PRE-CONSTRUCTION MEETING.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION AND SIZE OF THE PORTABLE RESTROOMS. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION AS INDICATED BY THE CONTRACT DOCUMENTS, INCLUDING SHOP DRAWINGS REVIEWED BY THE ARCHITECT.
18. WHEN A DETAIL IS IDENTIFIED AS TYPICAL, THE CONTRACTOR IS TO APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE.
19. ABBREVIATIONS THROUGHOUT THE PLAN ARE THOSE IN COMMON USE. THE CONTRACTOR SHALL DEFINE THE PLAN ABBREVIATIONS.
20. CONTRACTOR SHALL REFER TO THE PROJECT MANUAL AND OWNER'S DOCUMENTS FOR A COMPLETE LIST OF GENERAL CONDITIONS, SPECIAL CONDITIONS AND OTHER NOTES.
21. ALL WOOD CANTS, NAILERS, CURBS, ETC. THROUGHOUT JOB SHALL BE PRESSURE-TREATED, AS PER I.B.C. CURRENT VERSION. SEE RELEVANT DETAILS.
22. ALL DRAWINGS, THOUGH NOTED TO SCALE ARE FOR ILLUSTRATION ONLY. THE CONTRACTOR SHALL NOT SCALE DRAWINGS.
23. BEFORE ORDERING ANY MATERIALS, VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. DO NOT SCALE DRAWINGS FOR QUANTITIES.
24. ALL KEYNOTES, DETAILS, AND MATERIALS ARE TO BE INSTALLED PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS.

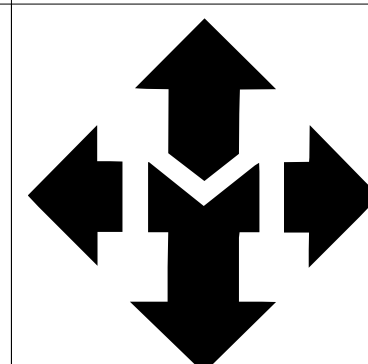
DRAWING INDEX

GENERAL

G001	COVER SHEET
G002	GENERAL INFO.
G003	GENERAL INFO.

ARCHITECTURAL

A100	GROUND LEVEL PLAN
A110	ROOF PLAN - OVERALL
A201	EXTERIOR ELEVATIONS
A301	BUILDING SECTION
A501	SECTIONS & DETAILS
A502	DETAILS



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SOUTHEAST WATER TREATMENT PLANT
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REVISIONS :

[illegible]

PROJECT NO.	24764.B
DRAWN BY:	AUTHOR
CHECKED BY:	CHECKER
ISSUE DATE:	MARCH 2026
CLIENT PROJECT/PROPERTY NO.	

GENERAL INFO.

G002

CONSTRUCTION DOCS

A

B

C

D

5

4

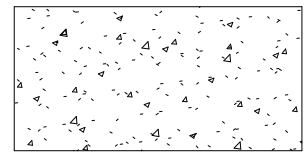
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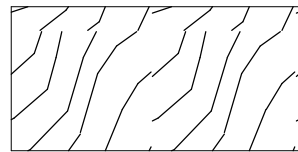
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LEGEND - MATERIALS

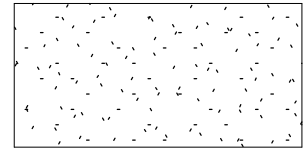
HATCH PATTERN BELOW INDICATES REPRESENTATION OF BUILDING MATERIALS IN BUILDING SECTIONS, WALL SECTIONS AND DETAILS.



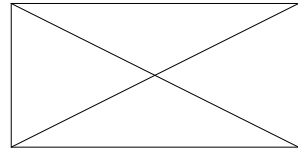
Concrete



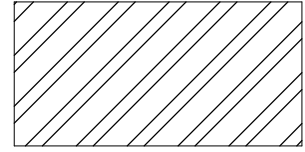
Finish Wood



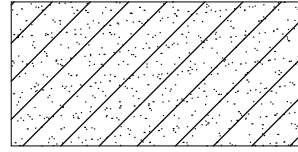
Gypsum Board



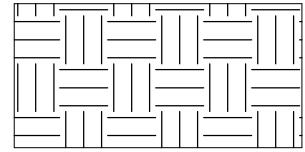
Blocking



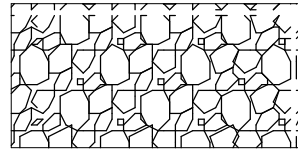
Steel



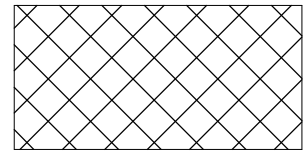
Stone



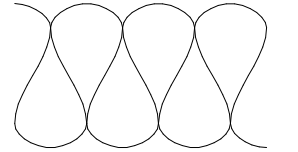
Earth



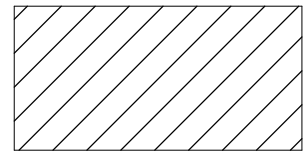
Gravel



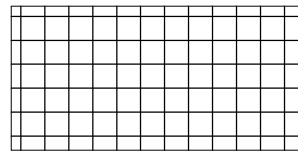
Masonry Concrete Block



Batt Insulation



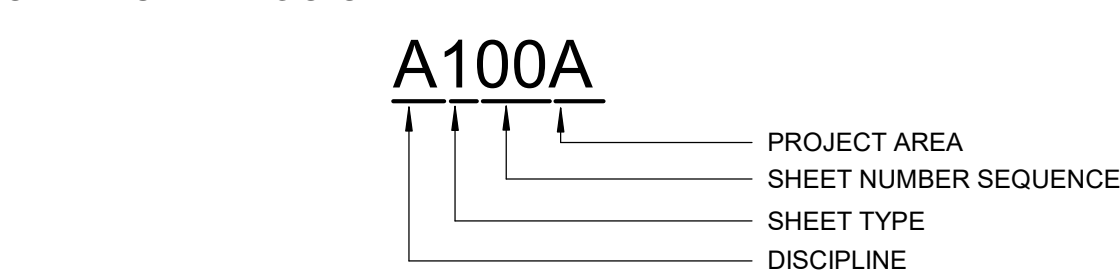
Masonry Brick



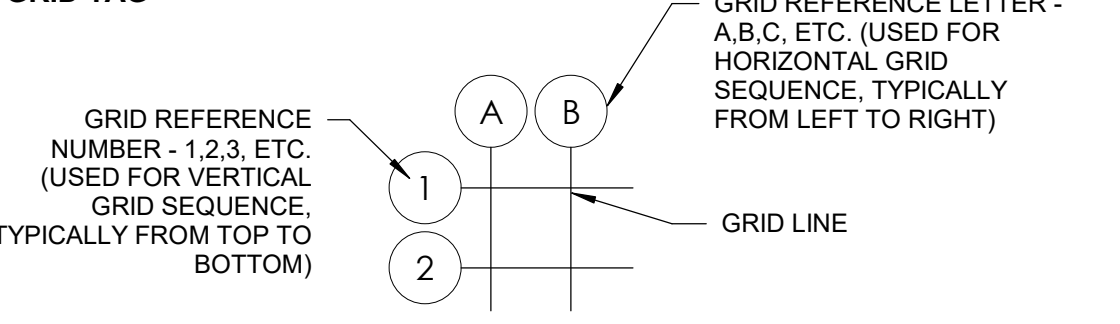
Insulation Rigid

GENERAL INFORMATION SYMBOLS & TAGS

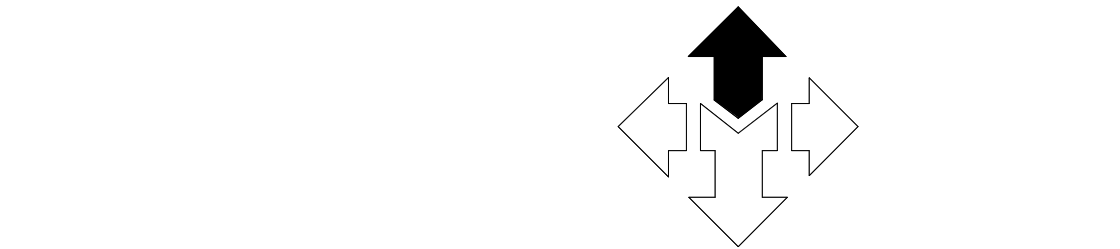
SHEET NUMBERING SYSTEM



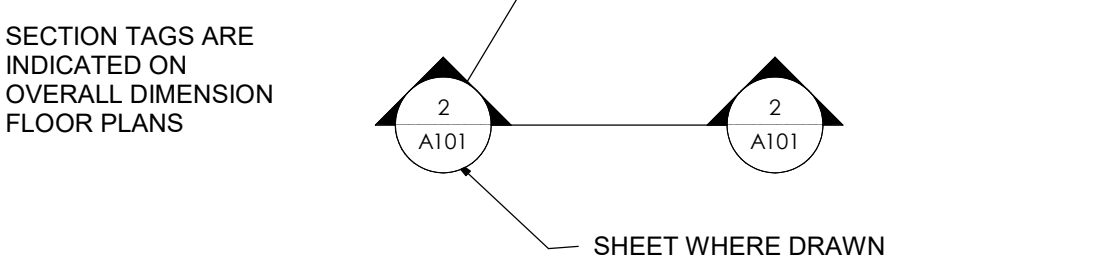
GRID TAG



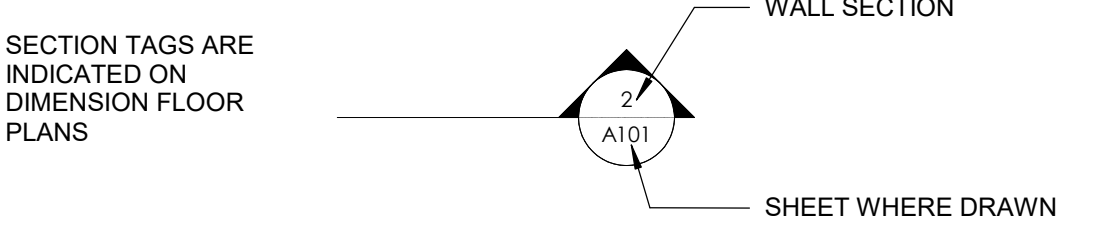
NORTH ARROW



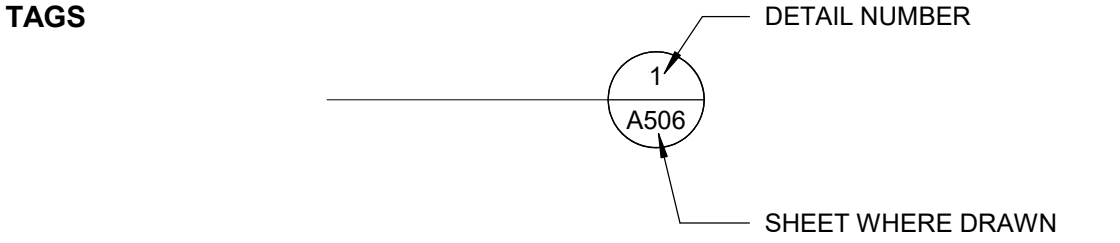
BUILDING SECTIONS



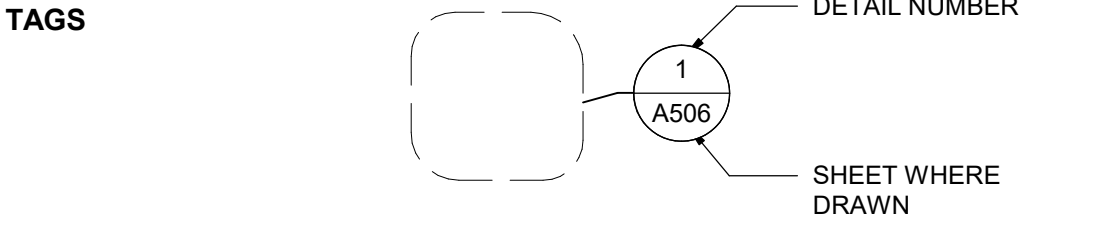
WALL SECTIONS



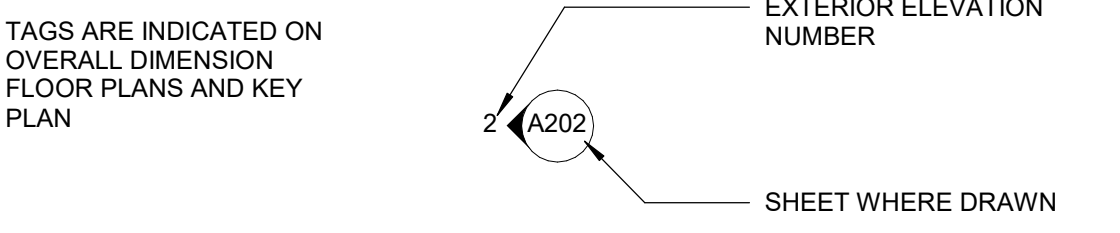
DETAIL TAGS



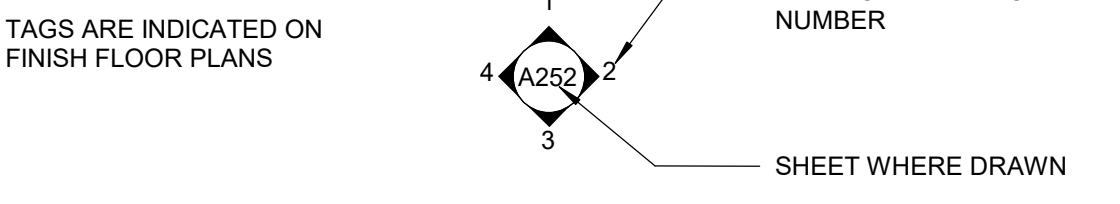
DETAIL TAGS



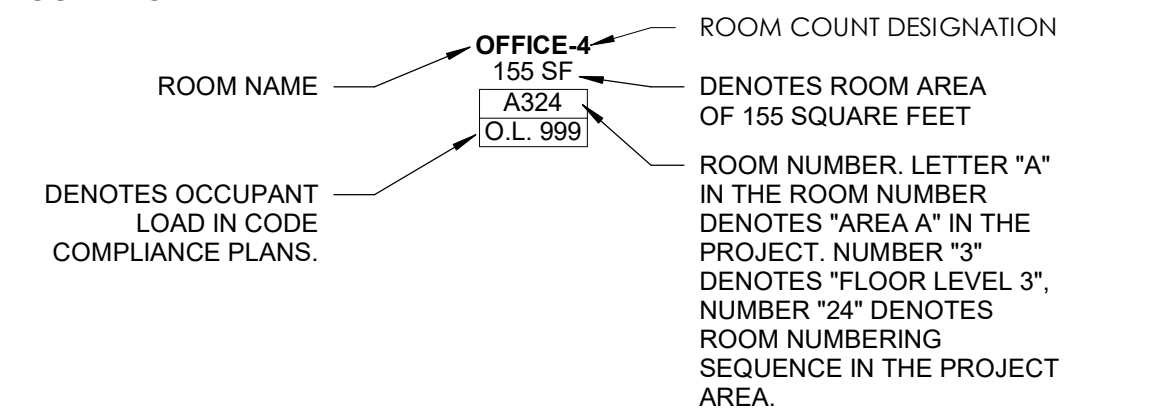
EXTERIOR ELEVATION TAGS



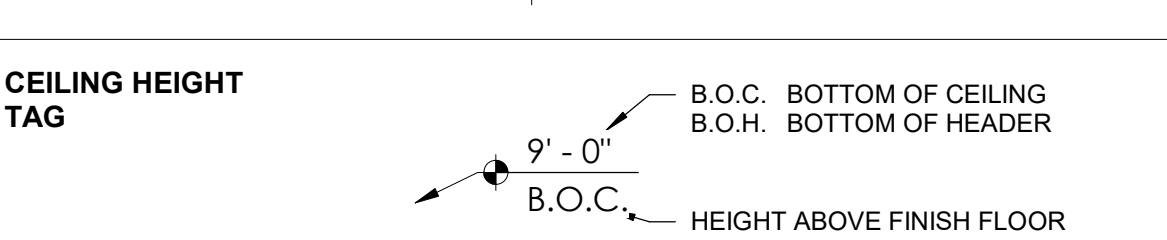
INTERIOR ELEVATION TAGS



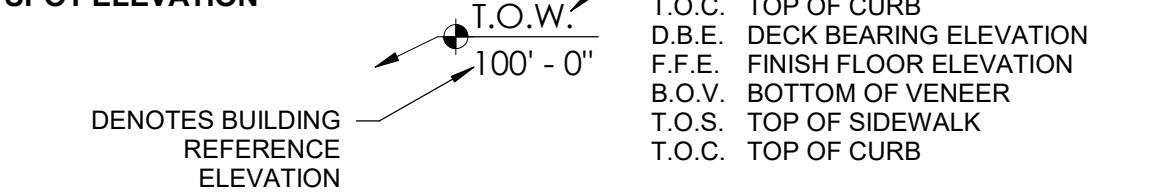
ROOM TAG



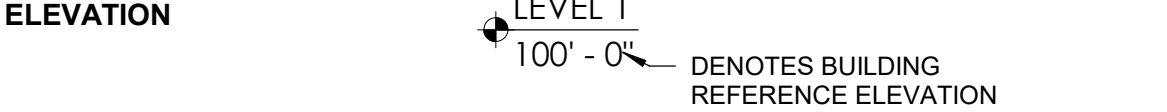
DATUM POINT TAG



SPOT ELEVATION



VERTICAL ELEVATION



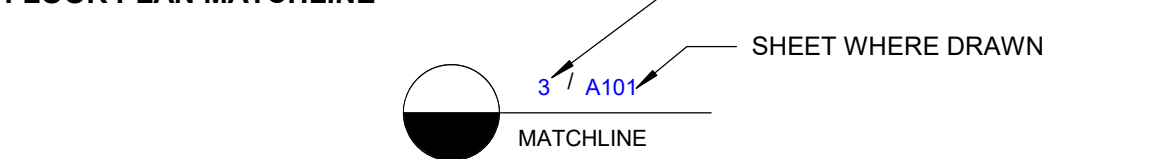
CENTER LINE



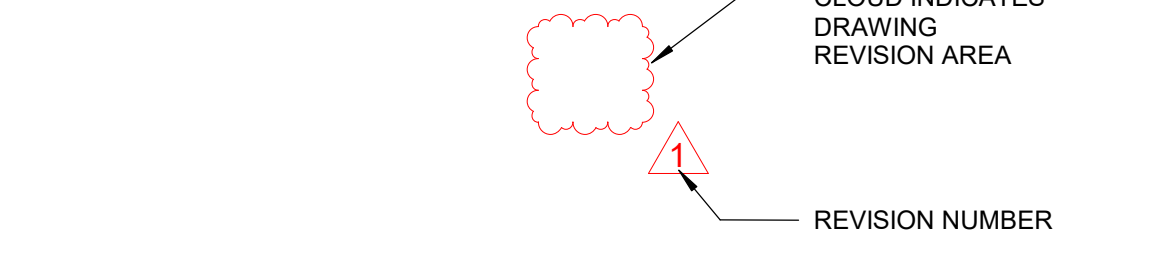
FLOW ARROW



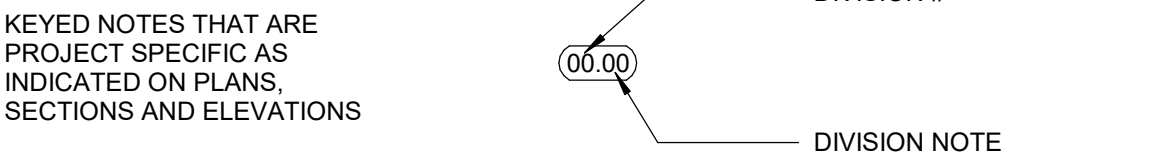
FLOOR PLAN MATCHLINE



REVISION TAG



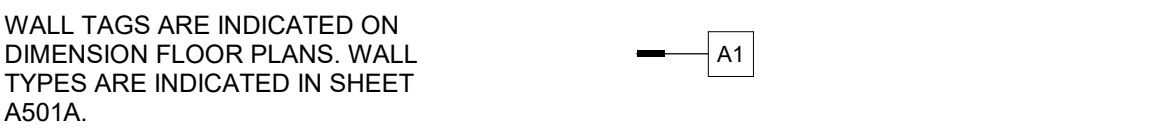
KEYED NOTES - PROJECT SPECIFIC



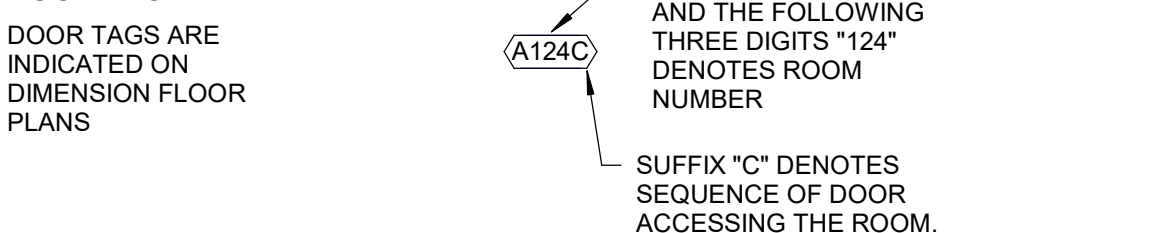
KEYED NOTES - GENERIC



WALL TAG



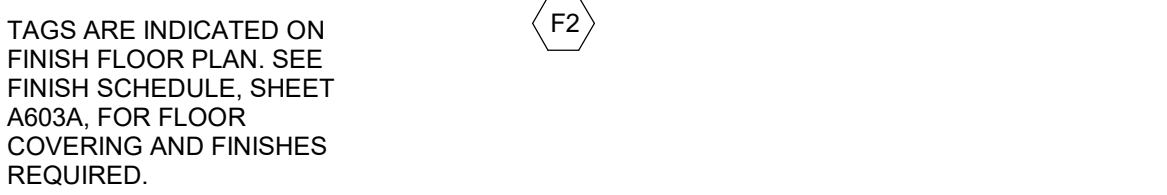
DOOR TAG



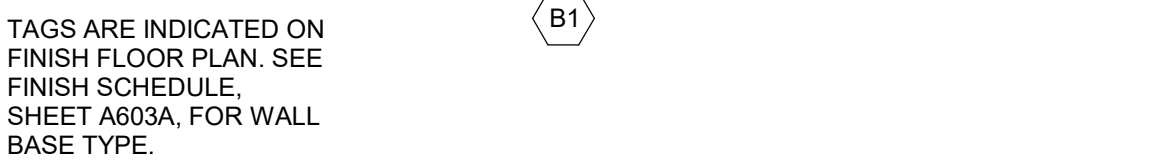
WINDOW TAG



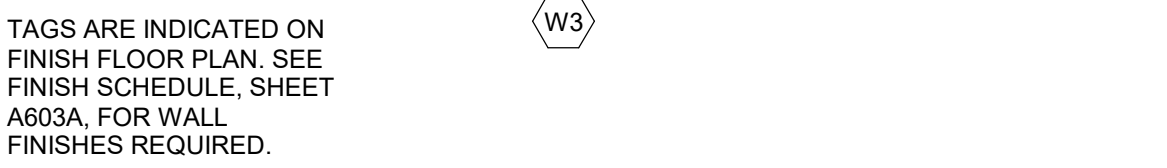
FLOOR FINISH TAG



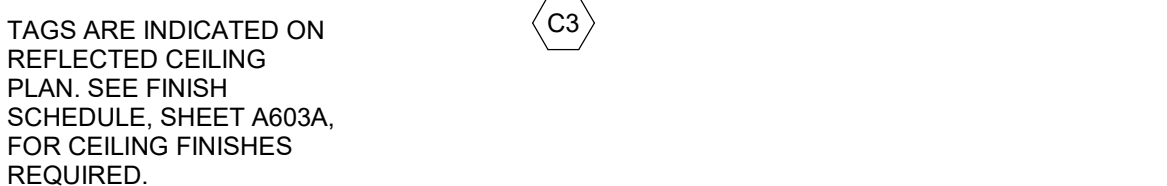
WALL BASE TAG



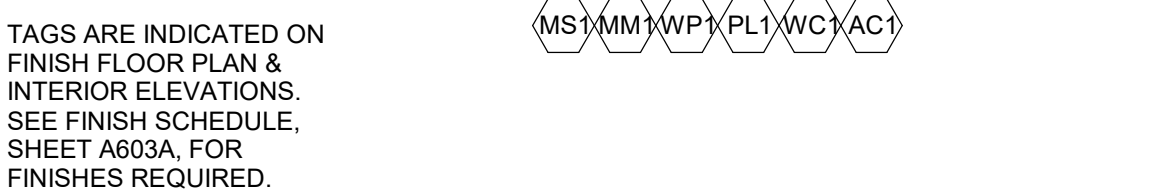
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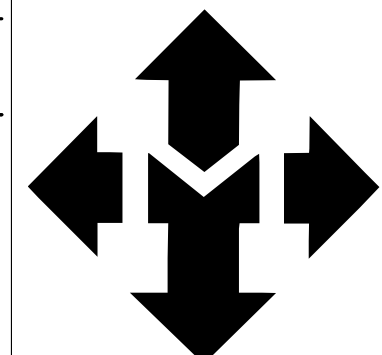
OTHER FINISH TAG



CABINET TAG



SIGN TAG



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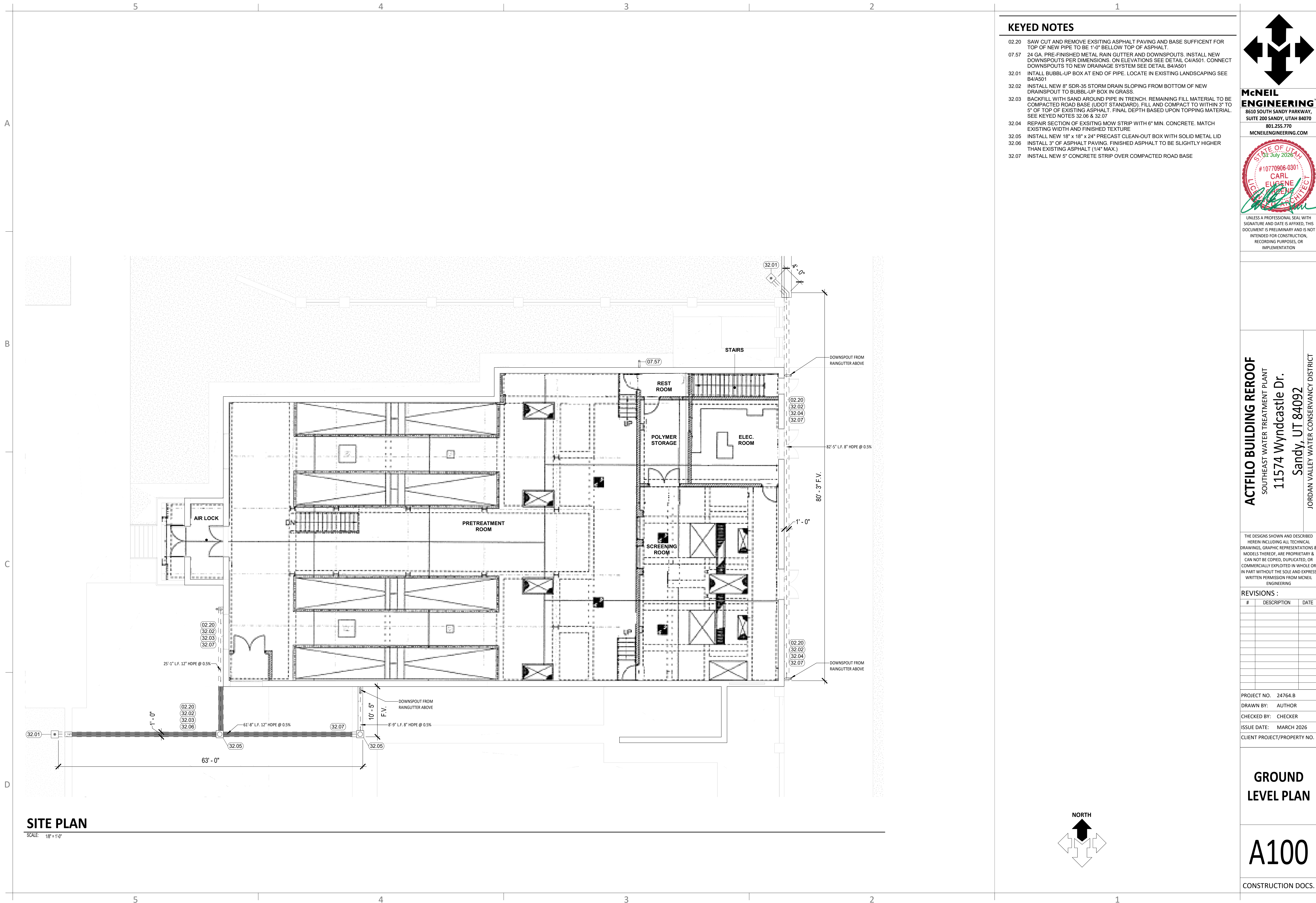
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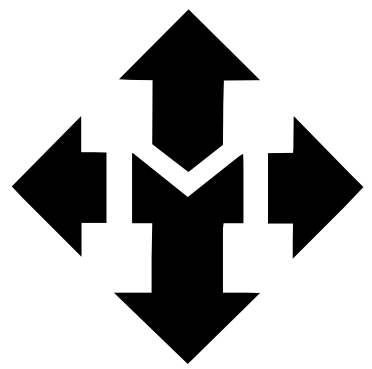
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KEYED NOTES

- 02.20 SAW CUT AND REMOVE EXSITING ASPHALT PAVING AND BASE SUFFICENT FOR TOP OF NEW PIPE TO BE 1'-0" BELOW TOP OF ASPHALT.
- 07.57 24 GA. PRE-FINISHED METAL RAIN GUTTER AND DOWNSPOUTS. INSTALL NEW DOWNSPOUTS PER DIMENSIONS. ON ELEVATIONS SEE DETAIL C4/A501. CONNECT DOWNSPOUTS TO NEW DRAINAGE SYSTEM SEE DETAIL B4/A501
- 32.01 INTALL BUBBL-UP BOX AT END OF PIPE. LOCATE IN EXISTING LANDSCAPING SEE B4/A501
- 32.02 INSTALL NEW 8" SDR-35 STORM DRAIN SLOPING FROM BOTTOM OF NEW DRAINSPOUT TO BUBBL-UP BOX IN GRASS.
- 32.03 BACKFILL WITH SAND AROUND PIPE IN TRENCH. REMAINING FILL MATERIAL TO BE COMPACTED ROAD BASE (UDOT STANDARD). FILL AND COMPACT TO WITHIN 3" TO 5" OF TOP OF EXISTING ASPHALT. FINAL DEPTH BASED UPON TOPPING MATERIAL. SEE KEYED NOTES 32.06 & 32.07
- 32.04 REPAIR SECTION OF EXSITNG MOW STRIP WITH 6" MIN. CONCRETE. MATCH EXISTING WIDTH AND FINISHED TEXTURE
- 32.05 INSTALL NEW 18" x 18" x 24" PRECAST CLEAN-OUT BOX WITH SOLID METAL LID
- 32.06 INSTALL 3" OF ASPHALT PAVING. FINISHED ASPHALT TO BE SLIGHTLY HIGHER THAN EXISTING ASPHALT (1/4" MAX.)
- 32.07 INSTALL NEW 5" CONCRETE STRIP OVER COMPACTED ROAD BASE



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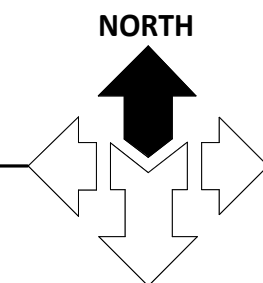
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**GROUND
LEVEL PLAN**

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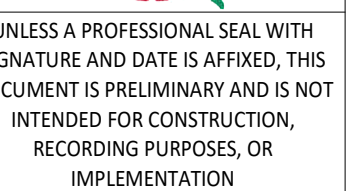
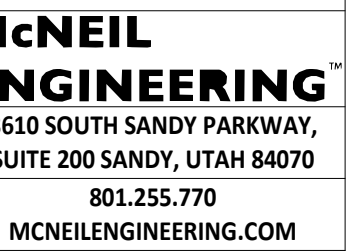
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SCALE: $1/8" = 1'-0"$

02.02	REMOVE & RECYCLE EXISTING FASCIA, DRIP EDGE, TERMINATION METAL, COUNTERFLASHING, ETC.
02.03	CAREFULLY DISCONNECT AND REMOVE ALL NON-ROOFING RELATED ELEMENTS PRIOR TO WORKING ON ROOF. LIGHTS, ANTENNAE, SENSORS, ETC.
	RESERVE FOR REINSTALLATION.
02.28	REMOVE EXISTING CONCRETE TILE ROOFING, WOOD NAILERS, DRIP EDGE, PENETRATION FLASHING, FELTS, ETC. DOWN TO PLYWOOD COVER BOARD, PERFORM INFRARED SCAN OF EXPOSED ROOF TO DETERMINE IF ANY OF THE UNDERLYING INSULATION IS WET. INSPECT PLYWOOD FOR ANY WATER DAMAGE. REMOVE, REPAIR AND REINSTALL UNDERLAYMENTS, FLASHINGS, DIVERTERS, ETC. WITH MATCHING MATERIALS OF THE SAME THICKNESS. CONTRACTOR TO INCLUDE AN ALLOWANCE TO REPLACE 1,600 SQ. FT. (50 PANELS) OF DAMAGE PLYWOOD AND 4" POLYISO INSULATION
02.64	REMOVE AND PROPERLY DISPOSE OF EXISTING SKYLIGHT
07.46	INSTALL NEW 115 MPH WIND RATED STANDING SEAM METAL ROOFING SYSTEM PER MANUFACTURER'S LATEST SPECIFICATION, WITH ASSOCIATED HIGH TEMPERATURE SECONDARY UNDERLAYMENTS, FLASHINGS, DIVERTERS, ETC. AS REQUIRED FOR MANUFACTURER'S WARRANTY AND PER SPECIFICATIONS, COLOR PER OWNER
07.54	24 GA. PRE-FINISHED DRIP EDGE METAL. INSTALL 12" STRIP OF SECONDARY UNDERLAYMENT BENEATH NEW DRIP EDGE. SEE DETAIL C4C5/A501
07.56	24 GA. PRE-FINISHED METAL VALLEYS WITH 9" WIDE (3 STRIPS) OF HIGH TEMP SECONDARY UNDERLAYMENT BENEATH VALLEYS. SEE DETAIL C4C5/A501
07.57	24 GA. PRE-FINISHED METAL RAIN GUTTER AND DOWNSPOUTS. INSTALL NEW DOWNSPOUTS PER DIMENSIONS, ON ELEVATIONS SEE DETAIL C4/A501. CONNECT DOWNSPOUTS TO NEW DRAINAGE SYSTEM SEE DETAIL B4/A501
07.59	24GA. PRE-FINISHED METAL FASCIA PER SPECIFICATION AND DETAILS C4 & C5/A501. CAULK AND SEAL WATER TIGHT ALL ROOF PENETRATIONS
	ONE-PIECE GALVANIZED METAL PIPE JACK FLASHINGS INSTALL PER SPECIFICATION AND DETAIL C5/A501. CAULK AND SEAL WATER TIGHT ALL ROOF PENETRATIONS. PAINT TO MATCH COLOR OF METAL ROOF AND COLOR OF MEMBRANE. REPLACE ALL EXISTING FLUE CAPS WITH NEW
07.70	INSTALL NEW DOUBLE DOOR ROOF HATCH, SEE DETAIL B5/A501

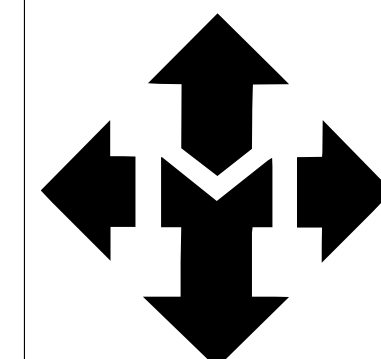


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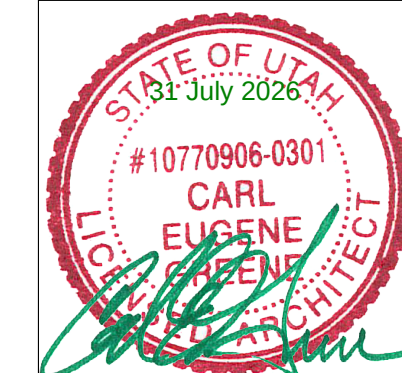
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ROOF PLAN - OVERALL

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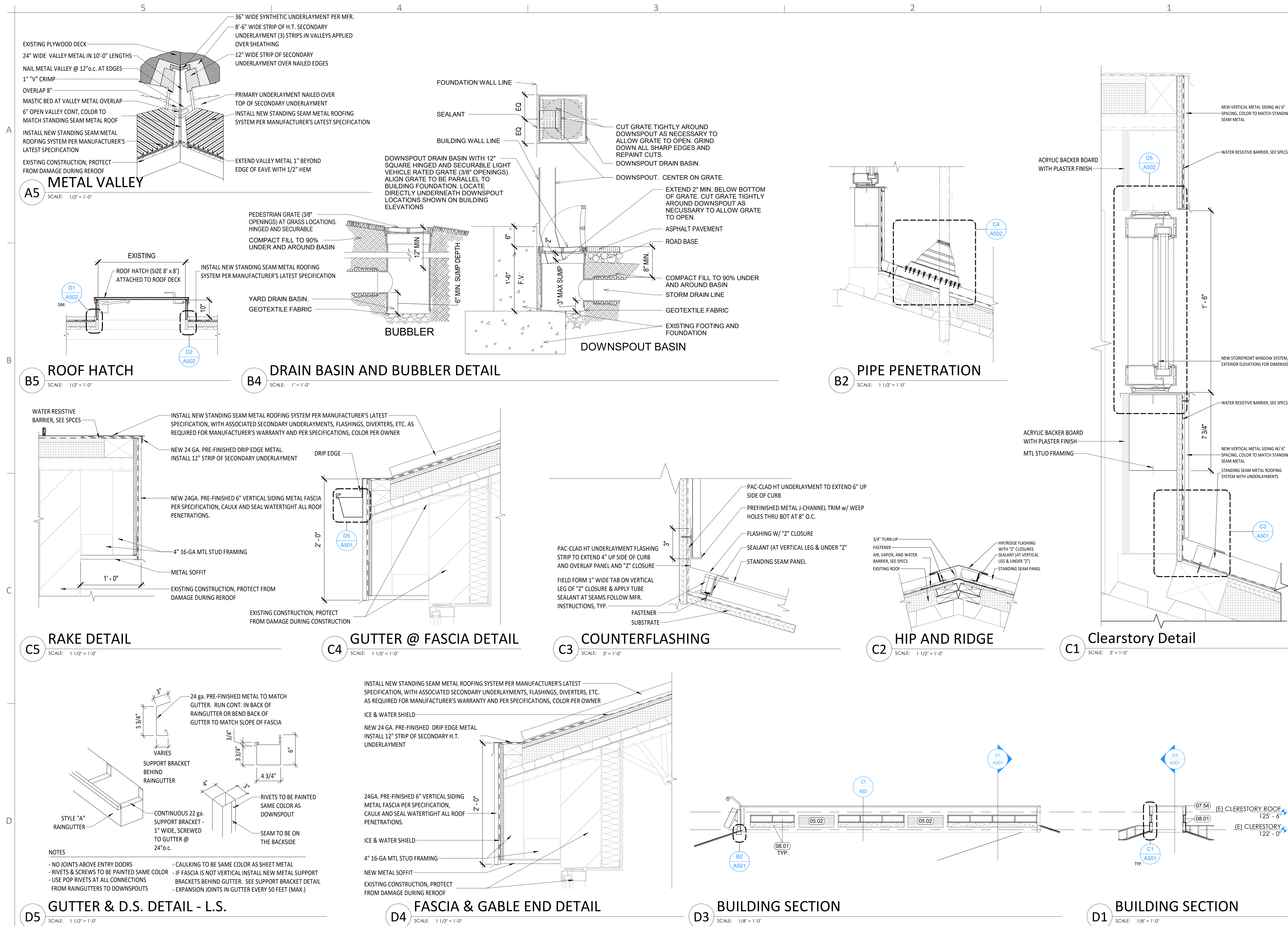
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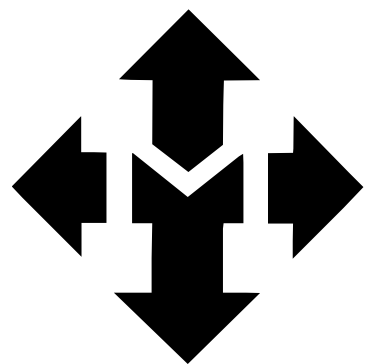
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SECTIONS & DETAILS

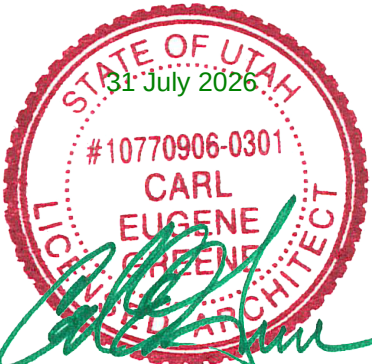
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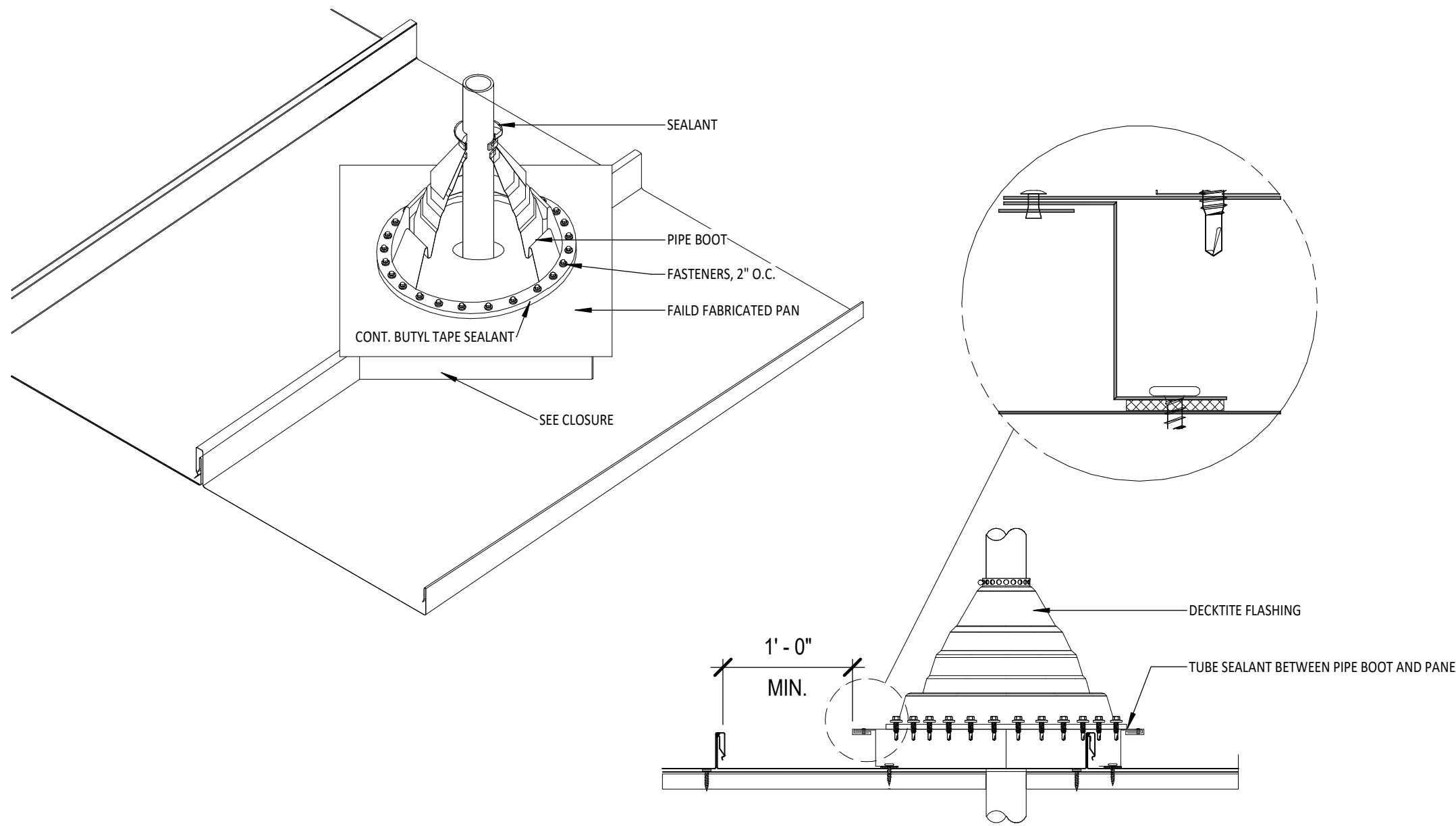
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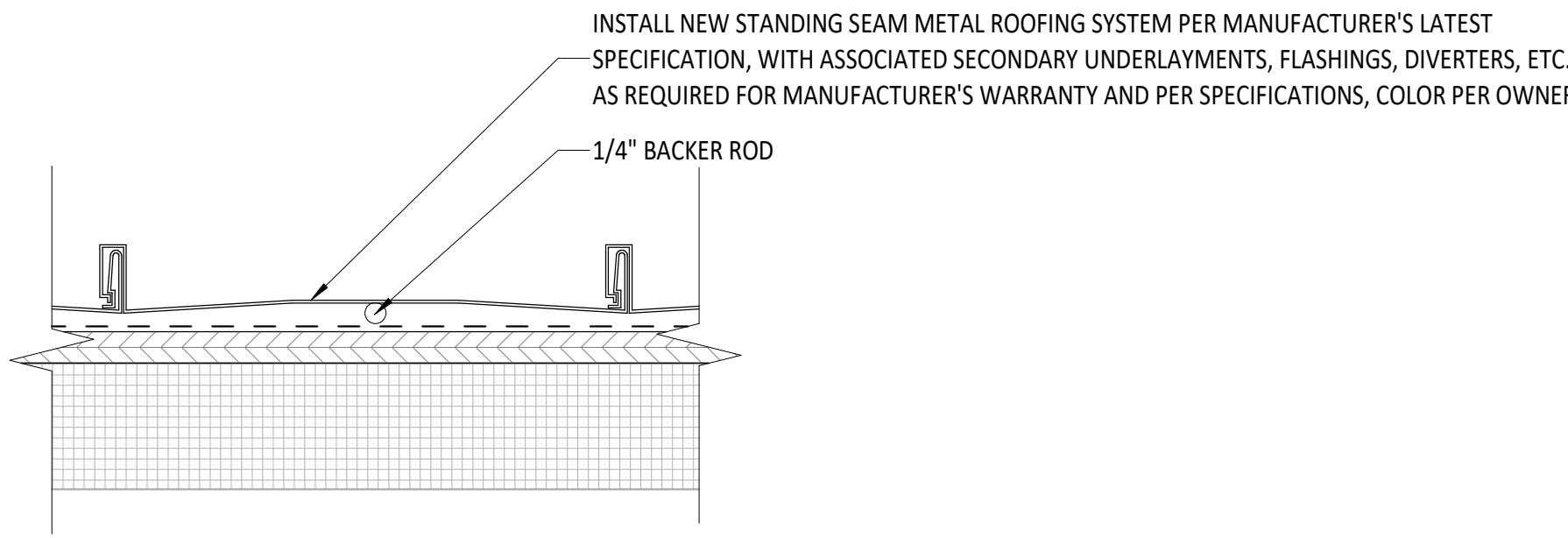
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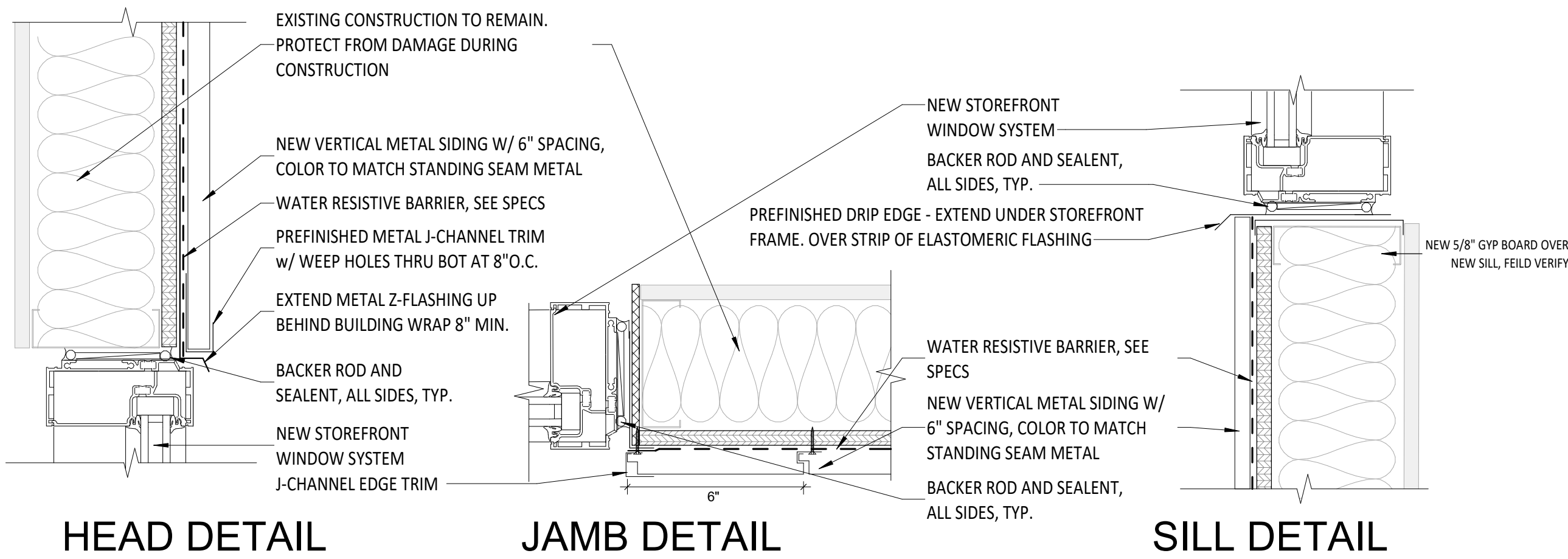
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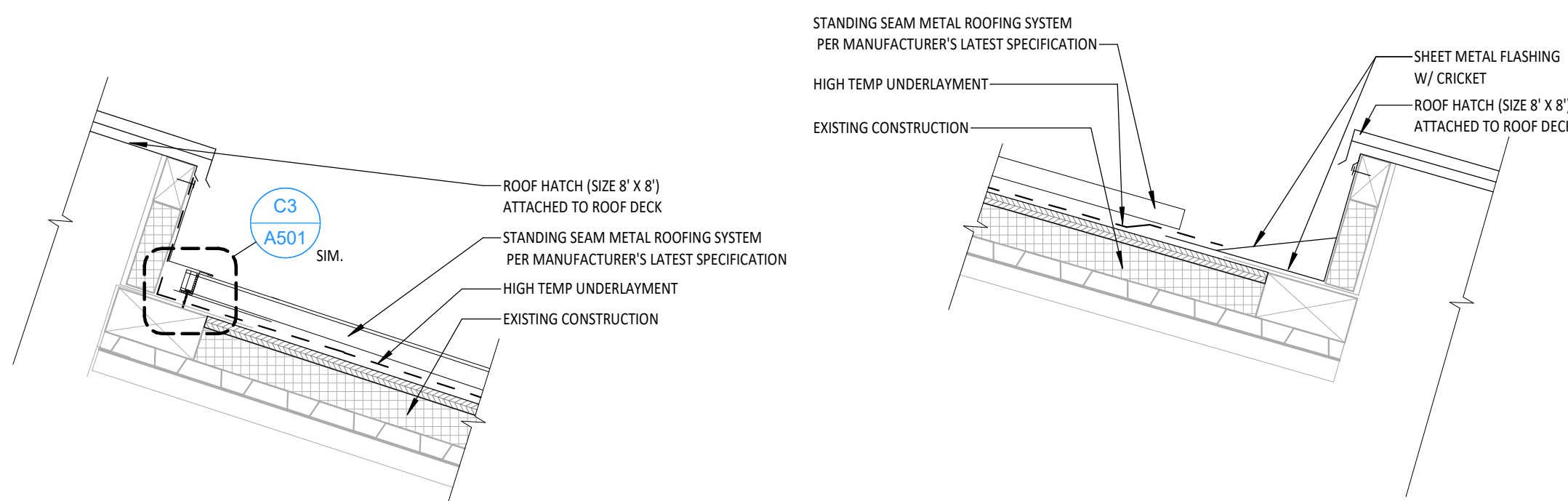
C4 PIPE PEN. WRAP FLASHING
SCALE: 1" = 1'-0"



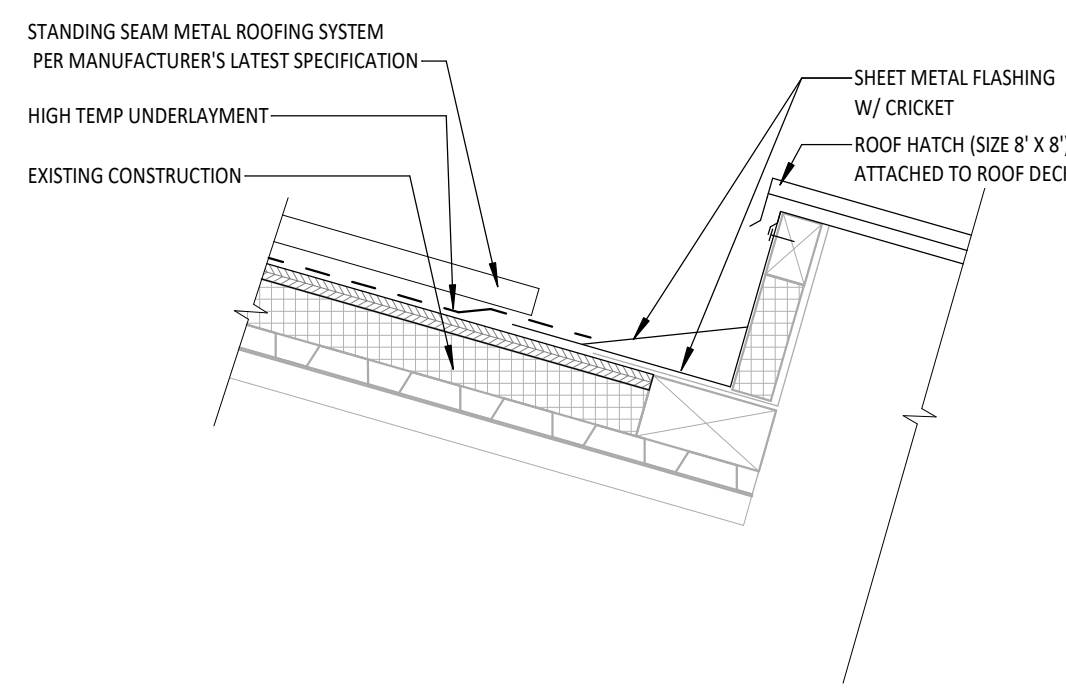
C2 STANDING SEAM PANEL TYP.
SCALE: 3" = 1'-0"



D5 WINDOW HEAD, SILL, AND JAMB
SCALE: 3" = 1'-0"



D2 ROOF HATCH (LOW SIDE)
SCALE: 1" = 1'-0"



D1 ROOF HATCH (HIGH SIDE)
SCALE: 1" = 1'-0"