

REPLACE ROOF - USPFO BUILDING IKE SKELTON TRAINING SITE JEFFERSON CITY, MISSOURI



OWNER: STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR
DEPARTMENT OF
PUBLIC SAFETY

PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

DESIGNER: KLINGNER & ASSOCIATES, P.C.

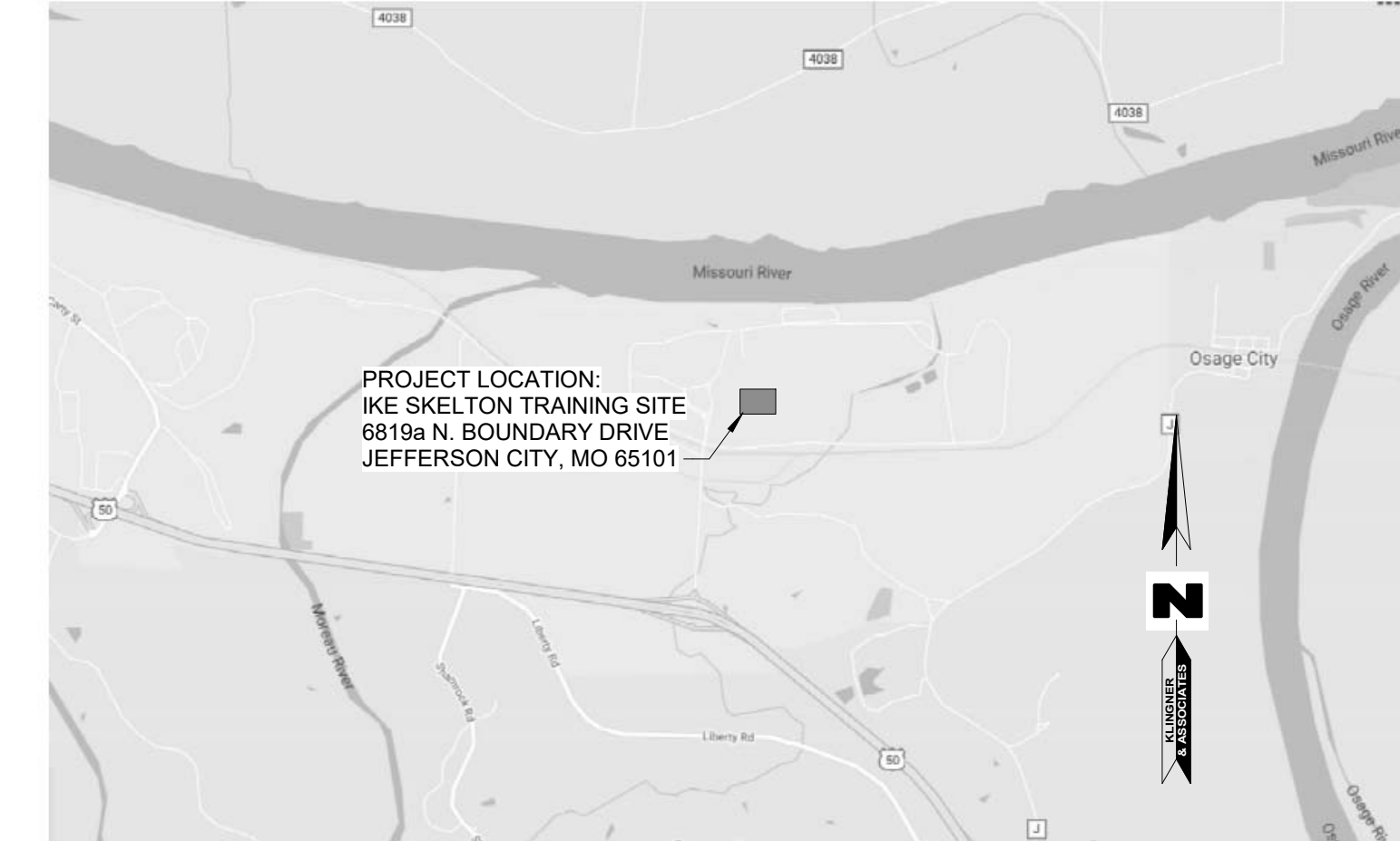
PROJECT NUMBER: T2040-01

SITE NUMBER: 6300
ASSET NUMBER: 8136300005

SHEET NUMBER	SHEET NAME	Current Revision Date
G001	TITLE SHEET	04/27/2021
G002	INDEX SHEET	04/27/2021
AD101	ROOF PLAN - DEMOLITION	04/27/2021
A101	ROOF PLAN - RENOVATION	04/27/2021
A501	DETAILS	04/27/2021
A502	DETAILS	04/27/2021

GENERAL NOTES:

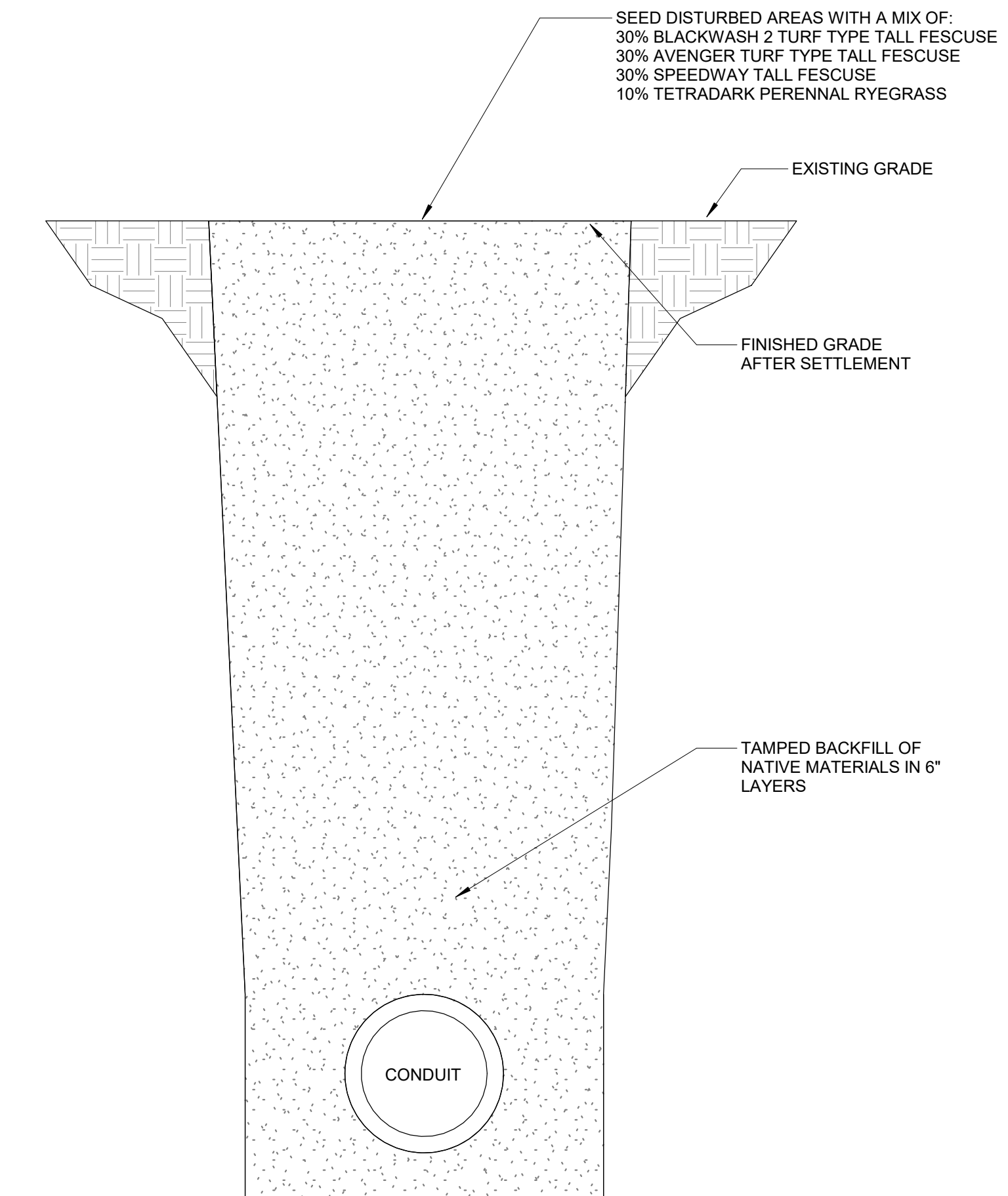
- THE CONTRACTOR(S) SHALL FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS AND TELL THE ARCHITECT OF ANY DISCREPANCIES AND INTERFERENCES ENCOUNTERED PRIOR TO STARTING WORK AFFECTED THEREBY.
- THE CONTRACTOR(S) SHALL COMPLY WITH THE LATEST EDITION OF APPLICABLE CODES AND STANDARDS INCLUDING BUT NOT LIMITED TO:
 - INTERNATIONAL BUILDING CODE (IBC)
 - NATIONAL ELECTRIC CODE (NEC)
 - INTERNATIONAL MECHANICAL CODE (IMC)
 - INTERNATIONAL PLUMBING CODE (IPC)
 - LIFE SAFETY CODE (NFPA 101)
 - ASHRAE STANDARD 90.1
 - AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 - SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA)
- THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR OSHA COMPLIANCE AND JOB SITE SAFETY.
- CONTRACTOR(S) SHALL VERIFY LOCATIONS OF ALL UTILITIES (TELEPHONE, DATA, GAS, ELECTRIC, SANITARY AND STORM SEWERS, ETC.) AT THE SITE BEFORE STARTING EXCAVATION OR CONSTRUCTION. THESE ITEMS SHALL BE MARKED AND PROTECTED.
- CONTRACTOR(S) SHALL TAKE PRECAUTIONS NECESSARY TO PROTECT ADJACENT PROPERTY FROM DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL PROTECT EXISTING FINISHES AND OTHER BUILDING COMPONENTS FROM DAMAGE. ANY SURFACES AND/OR COMPONENTS DAMAGED DURING THE CONSTRUCTION PROJECTS SHALL BE RETURNED TO PRE-PROJECT CONDITIONS AND/OR MADE TO MATCH ADJACENT MATERIALS.



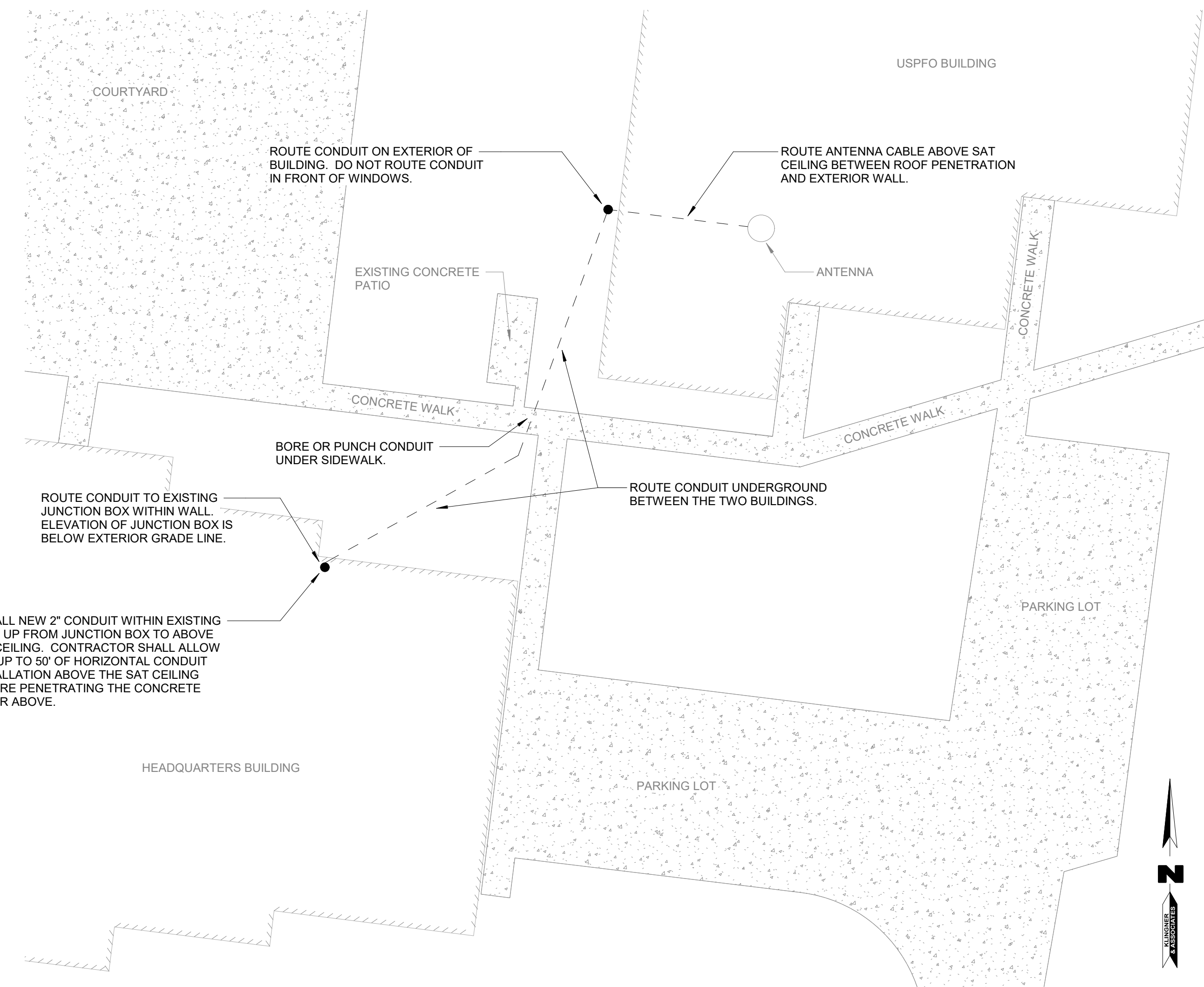
PROJECT LOCATION MAP
NTS

ANTENNA CABLE INSTALLATION GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR BACKFILLING TRENCH AND SEEDING.
- CONTRACTOR IS RESPONSIBLE FOR RETURNING ANY DISTURBED AREAS TO PRE-PROJECT CONDITIONS.
- EXPOSED EXTERIOR CONDUIT SHALL BE CLEANED WITH A WATER-BASED CLEANER/DEGREASER AND PAINTED WITH TWO COATS OF EPOXY PAINT TO MATCH ADJACENT BUILDING COLOR.
- AN "LB" STYLE CONDUIT FITTING SHALL BE SUPPLIED AT THE EXTERIOR WALL PENETRATION LOCATIONS.
- LONG SWEEP 90 DEGREE RIGID METAL CONDUIT ELBOWS SHALL BE USED AT THE BASE OF THE EXTERIOR CONDUITS.
- EXPOSED EXTERIOR CONDUIT SHALL BE RIGID METAL CONDUIT.
- SCHEDULE 80 PVC OR RIGID METAL CONDUIT SHALL BE USED FOR UNDERGROUND CONDUITS.
- A PULL STRING SHALL BE PROVIDED WITHIN CONDUIT.
- ANTENNA CABLE SHALL BE SUPPLIED AND INSTALLED BY OWNER.
- INTERIOR SPACE WHERE CONDUIT IS TO BE INSTALLED WITHIN THE HEADQUARTERS BUILDING IS A CONTROLLED ACCESS AREA. CONTRACTOR SHALL COORDINATE WITH MONG TO BE ESCORTED WHEN WORK OCCURS WITHIN THE HEADQUARTERS BUILDING.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING WEATHER/WATER TIGHT BUILDING PENETRATIONS.



DETAIL NOTES:
1) NATIVE BACKFILL MATERIAL TO BE FREE FROM ORGANIC MATTER, RUBBLE, OR FROZEN MATERIAL, AND CONTAINING NO ROCKS OR LUMPS OVER 6 INCH IN DIAMETER.



0 20' 40'
SCALE: 1" = 20'

1 ANTENNA CABLE INSTALLATION
1" = 20'-0"

2 EXTERIOR CONDUIT TRENCH DETAIL
NTS

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



MICHAEL CARTER - ARCHITECT
MO NO. 006846

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MO. STATE CERTIFICATE OF AUTHORITY #20010108

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CAD DWG FILE: G002
DRAWING BY: HMC
CHECKED BY: JJJ
DESIGNED BY: HMC

SHEET TITLE:
INDEX SHEET

SHEET NUMBER:

G002

2 OF 6 SHEETS
APRIL 27, 2021



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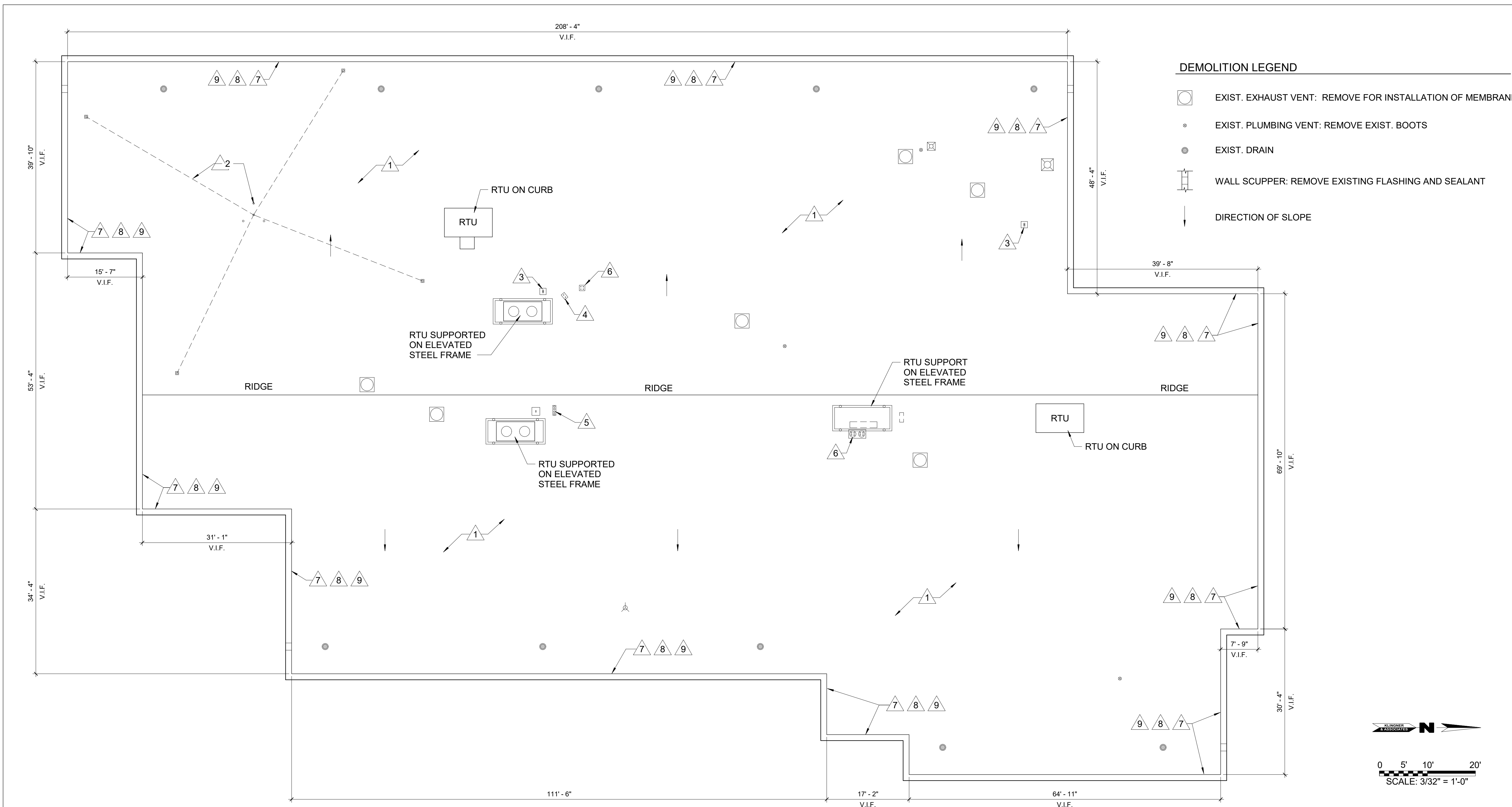
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SHEET TITLE:
**ROOF PLAN -
DEMOLITION**

SHEET NUMBER:

AD101

3 OF 6 SHEETS
APRIL 27, 2021



ROOF PLAN: DEMOLITION
3/32" = 1'-0"

GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL MAKE A PERSONAL INSPECTION OF THE SITE AND INCLUDE ALL WORK REQUIRED BY THE DRAWINGS. NOTIFY THE ARCHITECT IN WRITING OF ANY INCONSISTENCIES IN THE DRAWINGS.
2. PRIOR TO COMMENCING DEMOLITION, THE CONTRACTOR SHALL ASCERTAIN FROM THE OWNER WHETHER OR NOT THE OWNER WISHES TO RETAIN ANY ITEMS. ANY SUCH ITEMS SHALL BE REMOVED WITH CARE SO AS TO PREVENT UNNECESSARY DAMAGE.
3. EXISTING CONSTRUCTION SHALL BE PROTECTED.
4. ANY ITEMS NOT SHOWN TO BE DEMOLISHED THAT ARE DAMAGED DURING THE COURSE OF DEMOLITION OR CONSTRUCTION SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
5. COORDINATE ANY SYSTEMS SHUTDOWNS WHICH MAY BE REQUIRED WITH THE OWNER.
6. ALL MATERIALS THAT HAVE BEEN DEMOLISHED SHALL BE REMOVED AND DISPOSED OF PROPERLY. NO DEMOLISHED MATERIALS SHALL BE STOCKPILED ON SITE.
7. ANY ITEMS NOT TO BE RETAINED BY THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE CONTRACTOR.

DEMOLITION KEYNOTES

1. REMOVE EXISTING ROOF SYSTEM IN ITS ENTIRETY: EPDM MEMBRANE, 1/2" COVER BOARD, 2 1/2" POLYISO, RIGID INSULATION AND CRICKETS.
2. REMOVE EXISTING ANTENNA AND RETAIN FOR REINSTALLATION.
3. REMOVE EXISTING PENETRATION POCKET.
4. REMOVE AND RETAIN PIPE/ CABLE SUPPORT.
5. REMOVE MULTI-PENETRATION FLASHING AND SEALANT.
6. DISCONNECT PIPING AND CABLE. REMOVE MULTI-PENETRATION CAP AND DISCARD. RETAIN EXISTING CURB.
7. REMOVE EXISTING COUNTER-FLASHING.
8. REMOVE EXISTING METAL COPING AND CLEATS.
9. REMOVE EXISTING PLYWOOD BACKER FROM FACE OF PARAPET WALL AND DISCARD.



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SHEET TITLE:

**ROOF PLAN -
RENOVATION**

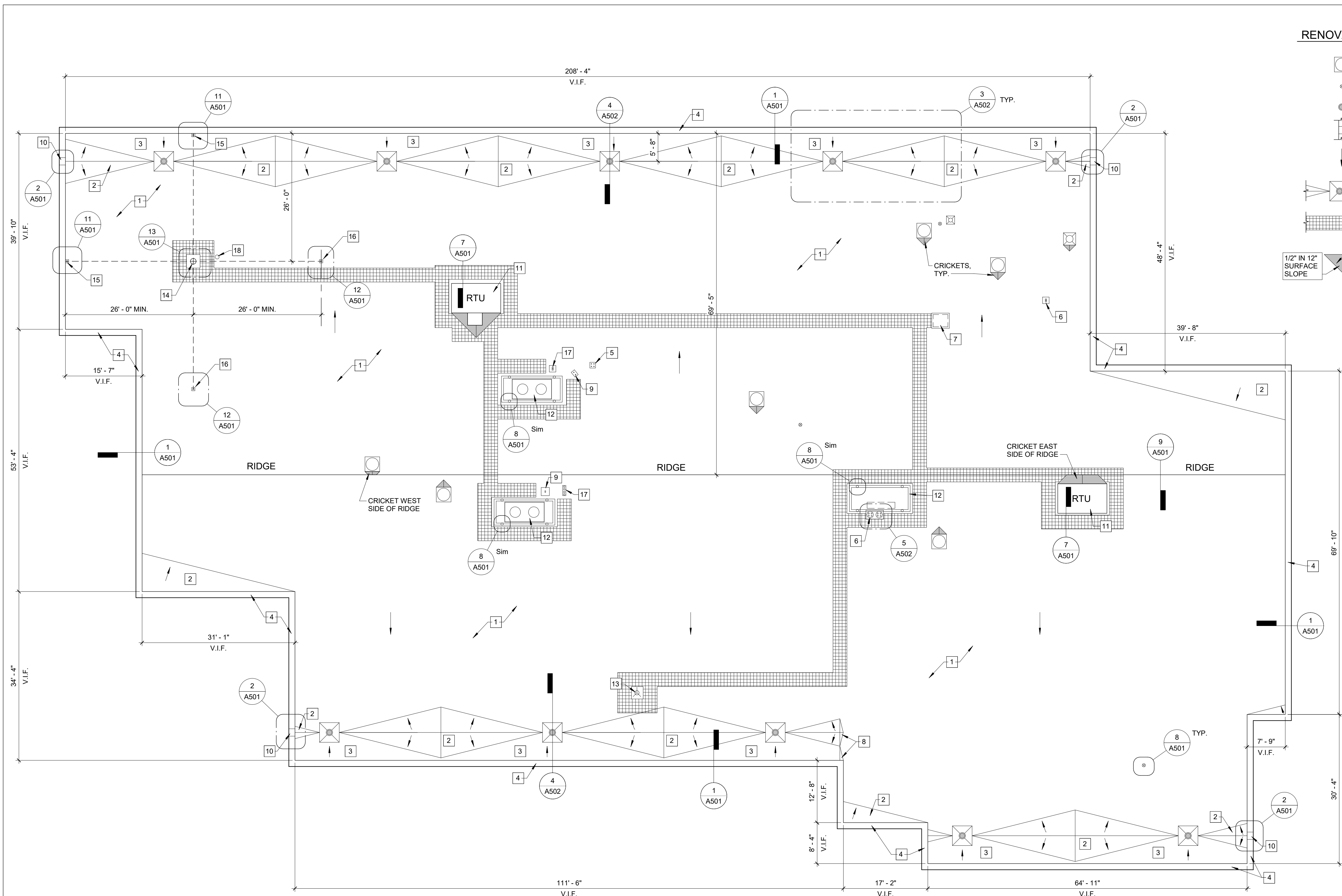
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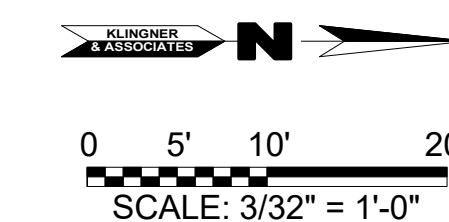
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APRIL 27, 2021

RENOVATION LEGEND

- EXIST. EXHAUST VENT
- EXIST. PLUMBING VENT
- EXIST. DRAIN
- WALL SCUPPER
- DIRECTION OF SLOPE
- 4' x 4' SUMP AT EACH DRAIN: SURFACE TO HAVE 3/4" IN 12" SLOPE
- TPO WALKWAY ROLL
- TYPICAL NEW CRICKET: CRICKETS TO OCCUR AT ALL EQUIP. & SKYLIGHT CURBS



ROOF PLAN: RENOVATION
3/32" = 1'-0"



GENERAL RENOVATION NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED PRIOR TO BEGINNING CONSTRUCTION.

RENOVATION KEYNOTES

1. NEW ROOF SYSTEM: 60 MIL TPO MEMBRANE FULLY ADHERED OVER 1/2" HIGH DENSITY POLYISO. COVER BOARD OVER TWO LAYERS OF 2.5" THICK POLYISO INSULATION OVER METAL DECK.
2. NEW TAPERED INSULATION CRICKETS TO HAVE 1/2" IN 12" SURFACE SLOPE.
3. TAPERED INSULATION ALONG EAST AND WEST PARAPETS TO HAVE MINIMUM 1/2" IN 12" SURFACE SLOPE.
4. NEW MANUFACTURED METAL COPING.
5. INSTALL NEW SINGLE PORTAL SYSTEM FOR MULTIPLE PENETRATIONS: SEE SPEC SECT. 076200. SYSTEM TO INCLUDE CURB AND RUBBER MULTI-PENETRATION CAP.
6. INSTALL NEW DOUBLE PIPE PORTAL SYSTEM FOR EXISTING PENETRATIONS AND FOR FUTURE PENETRATIONS: SEE SPEC. SECT. 076200. SYSTEM WILL INCLUDE CURB AND RUBBER MULTI-PENETRATION CAP. SEE DETAIL 5/A502.
7. INSTALL NEW ROOF ACCESS HATCH & LADDER: SEE SPEC SECT. 077233 AND DETAIL 1/A502. SEE DETAIL 2/A502 FOR LADDER DETAIL.
8. PROVIDE TAPER STRIPS AT UNEVEN SURFACES.
9. REUSE EXISTING PIPE / CABLE SUPPORT BRACKET.
10. INSTALL NEW SHEET METAL THRU-WALL SCUPPER.
11. EXISTING RTU ATOP EXISTING CURB.
12. EXISTING RTU ELEVATED ON STEEL FRAME.
13. MULTIPLE LAYERS OF PRESSURE SENSITIVE ELASTOFORM FLASHING.
14. REINSTALL RETAINED EXISTING ANTENNA W/O THE EXISTING TRIPOD STRUCTURE: SEE DETAIL 13 / A501 FOR NEW BASE DETAIL.
15. NEW STEEL ANCHOR IN PARAPET WALL FOR ANTENNA CABLE SECUREMENT. PROVIDE FLASHING AND SEALER AS RECOMMENED FOR PARAPET PENETRATIONS.
16. NEW ANTENNA CABLE ANCHOR SECURED TO EXISTING OPEN WEB STEEL JOIST.
17. INSTALL NEW PEEL & STICK POURABLE SEALER POCKET.
18. INSTALL GOOSENECK TYPE FLASHING FOR ANTENNA CABLE PENETRATION: SEE SPEC. 076200.

ALTERNATE BID NO. 1

PROVIDE A FULLY ADHERED 80 MIL. MEMBRANE SYSTEM WITH 30 YEAR WARRANTY IN-LIEU OF THE BASE BID FULLY ADHERED 60 MIL. MEMBRANE SYSTEM WITH 20 YEAR WARRANTY.

ALTERNATE BID NO. 2

ADD FLEECEBACK LINER TO THE 80 MIL. MEMBRANE IN ALTERNATE NO. 1. TOTAL FLEECEBACK TPO THICKNESS WOULD BE 135 MIL. COST OF ALTERNATE BID NO. 2 WOULD BE DIFFERENCE IN COST BETWEEN 80 MIL TPO MEMBRANE WITH 30 YEAR WARRANTY AND 135 MIL FLEECEBACK TPO MEMBRANE WITH 30 YEAR WARRANTY.



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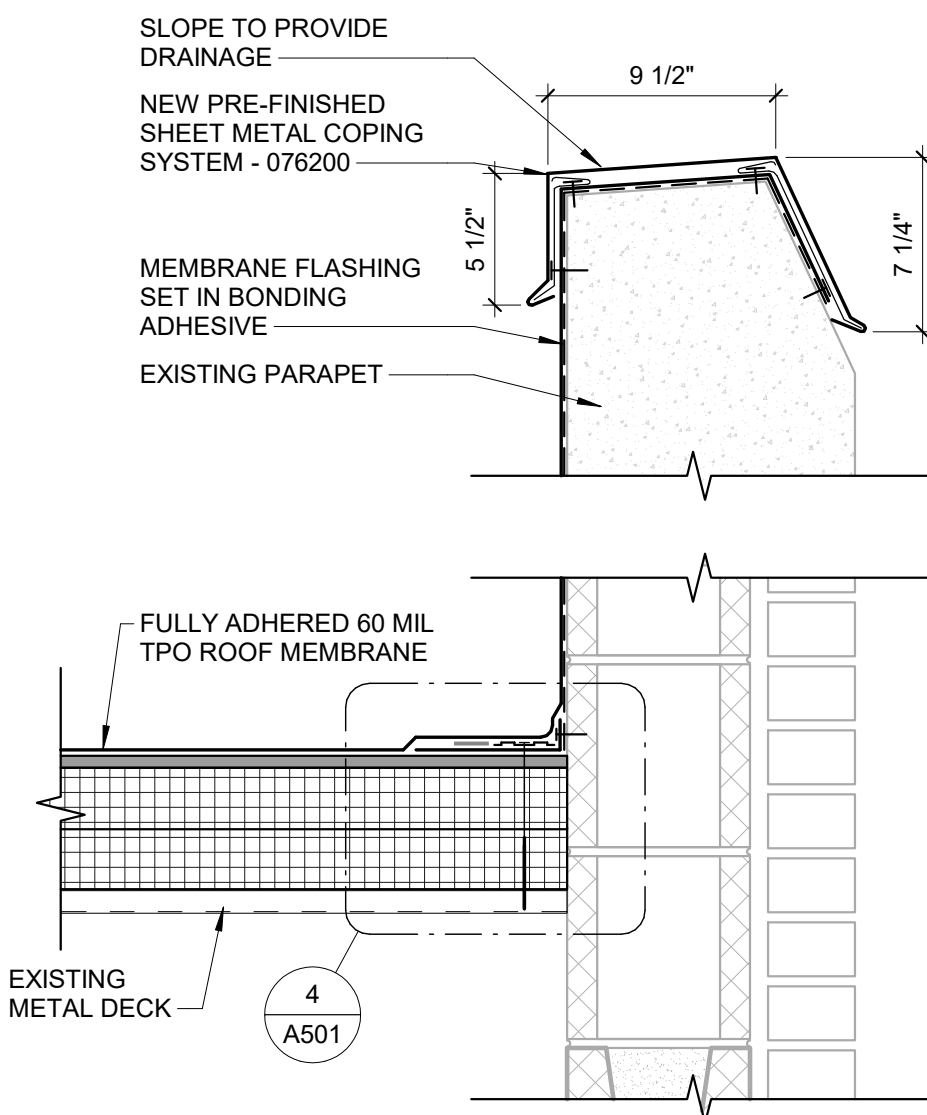
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DESIGNED BY: HMC

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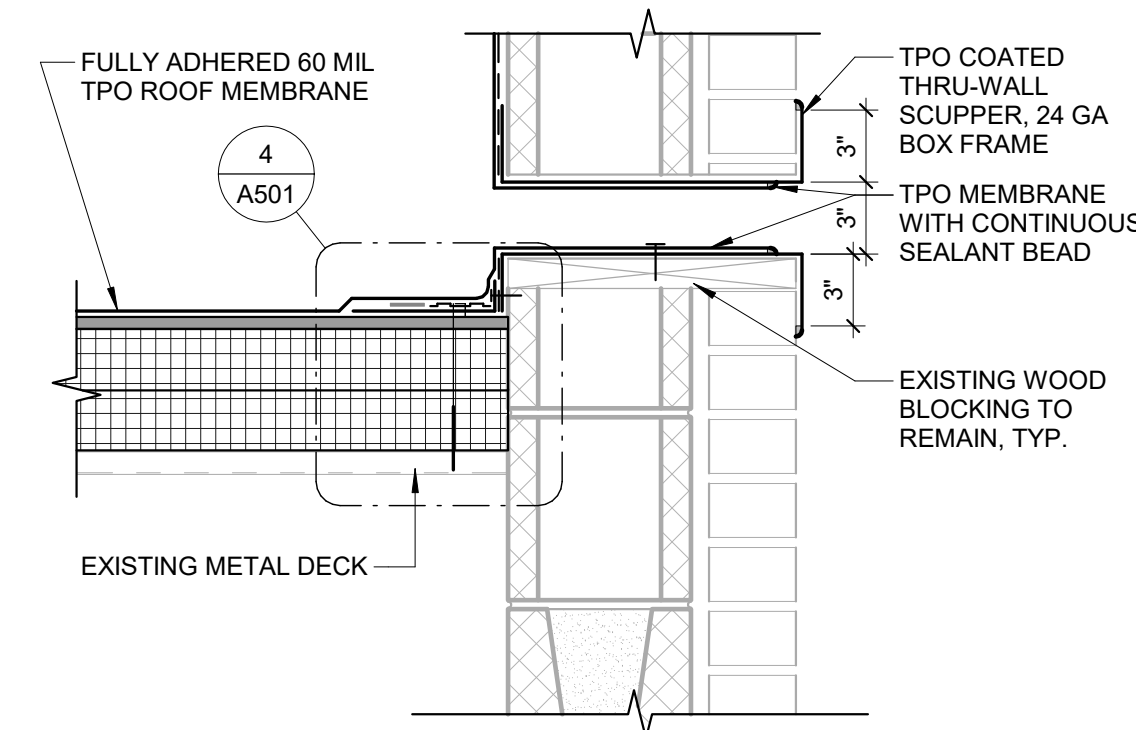
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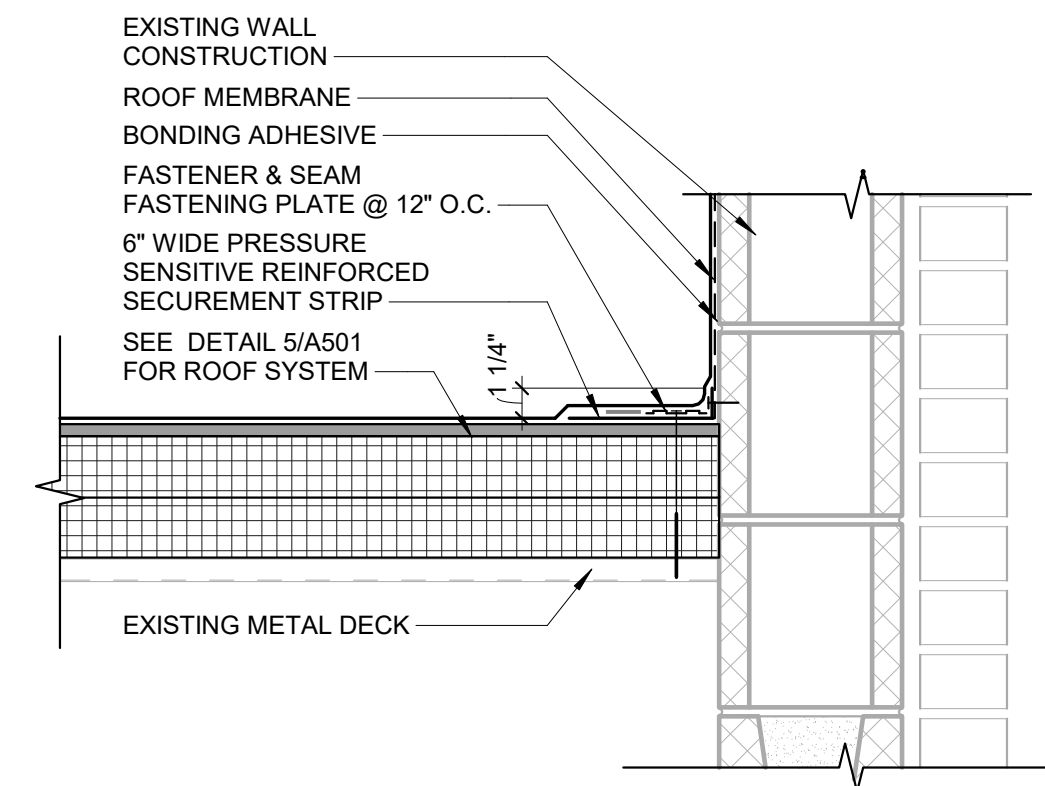
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APRIL 27, 2021



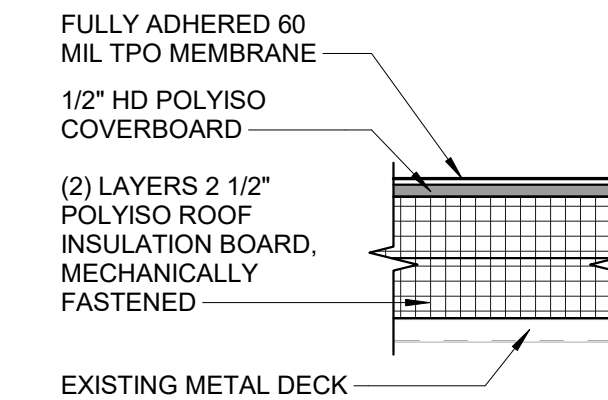
1 PARAPET DETAIL
1 1/2" = 1'-0"



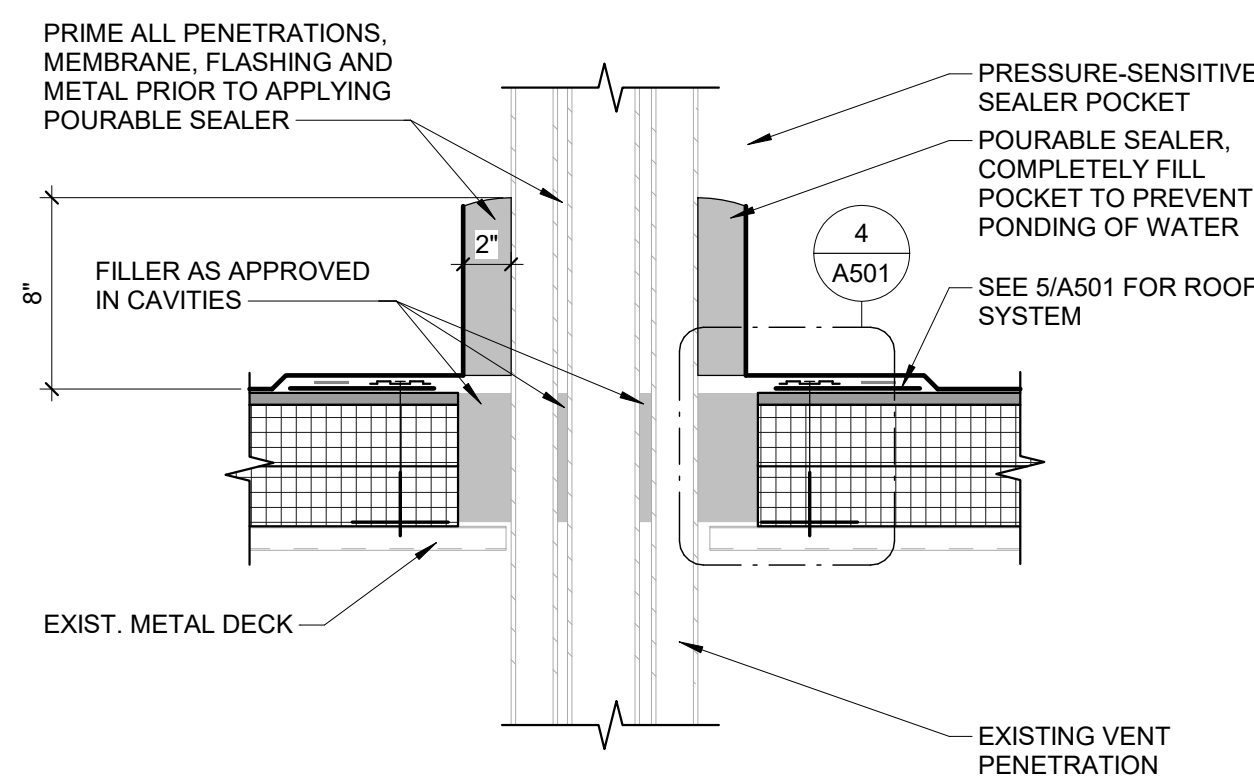
2 SCUPPER DETAIL
1 1/2" = 1'-0"



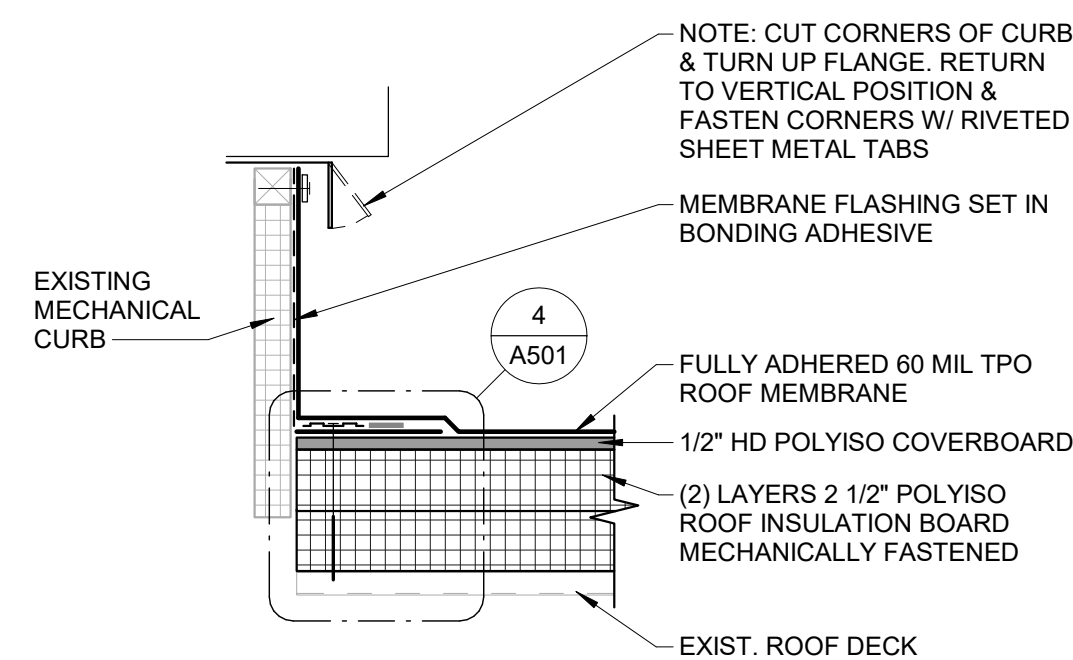
4 MEMBRANE SECUREMENT
1 1/2" = 1'-0"



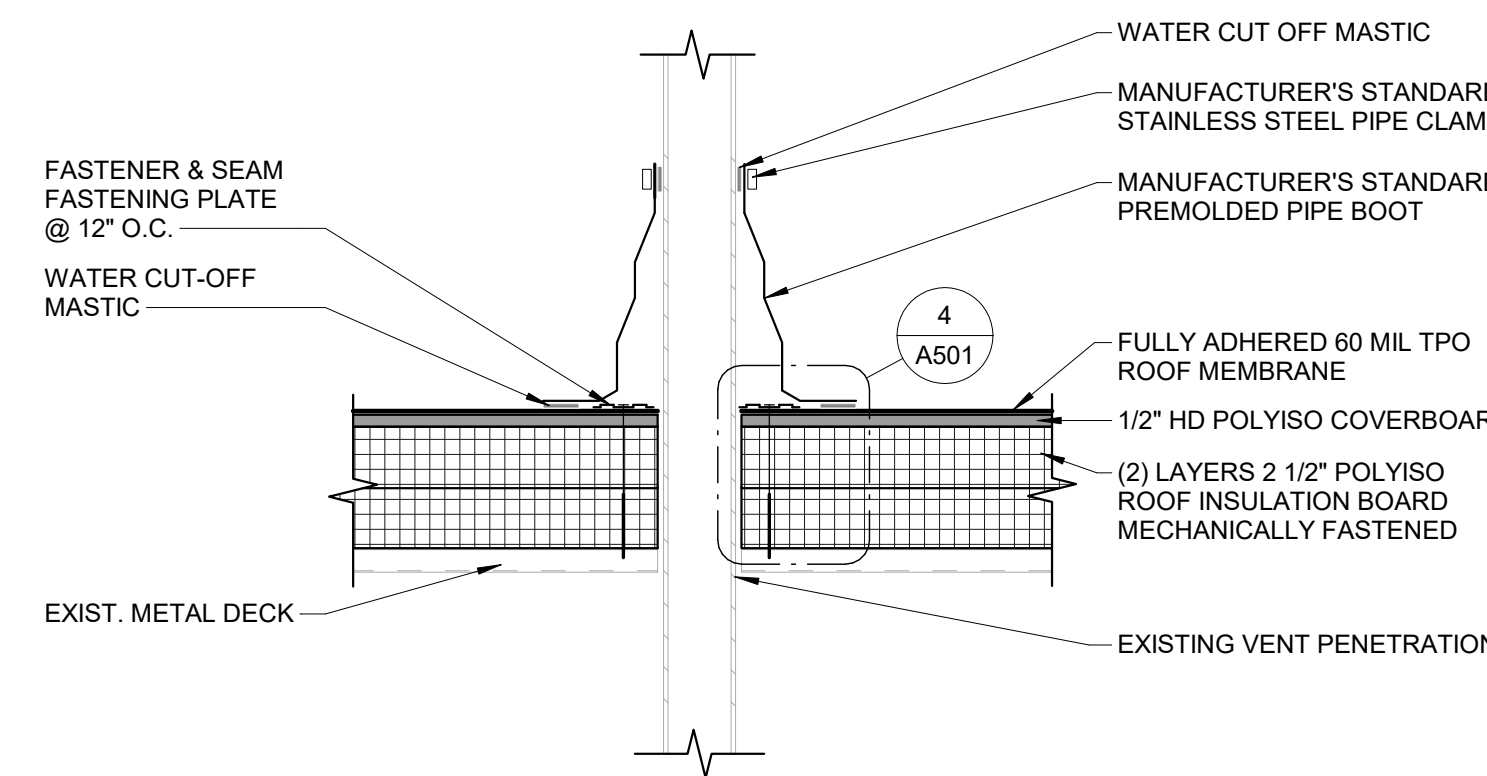
5 ROOF SYSTEM
1 1/2" = 1'-0"



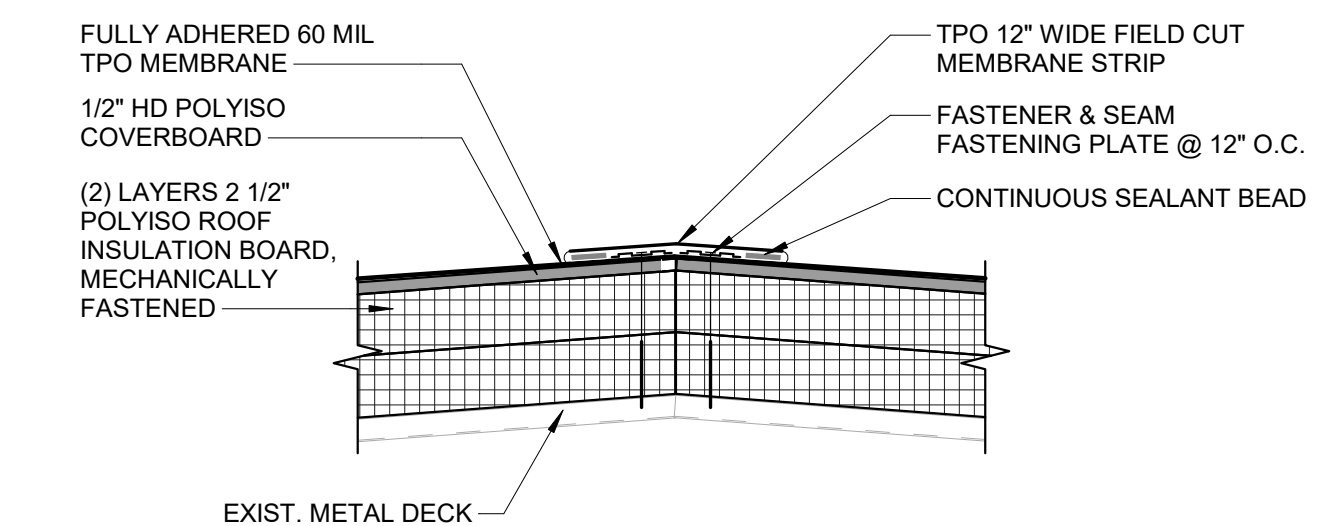
6 MULTIPLE PIPE PENETRATION
1 1/2" = 1'-0"



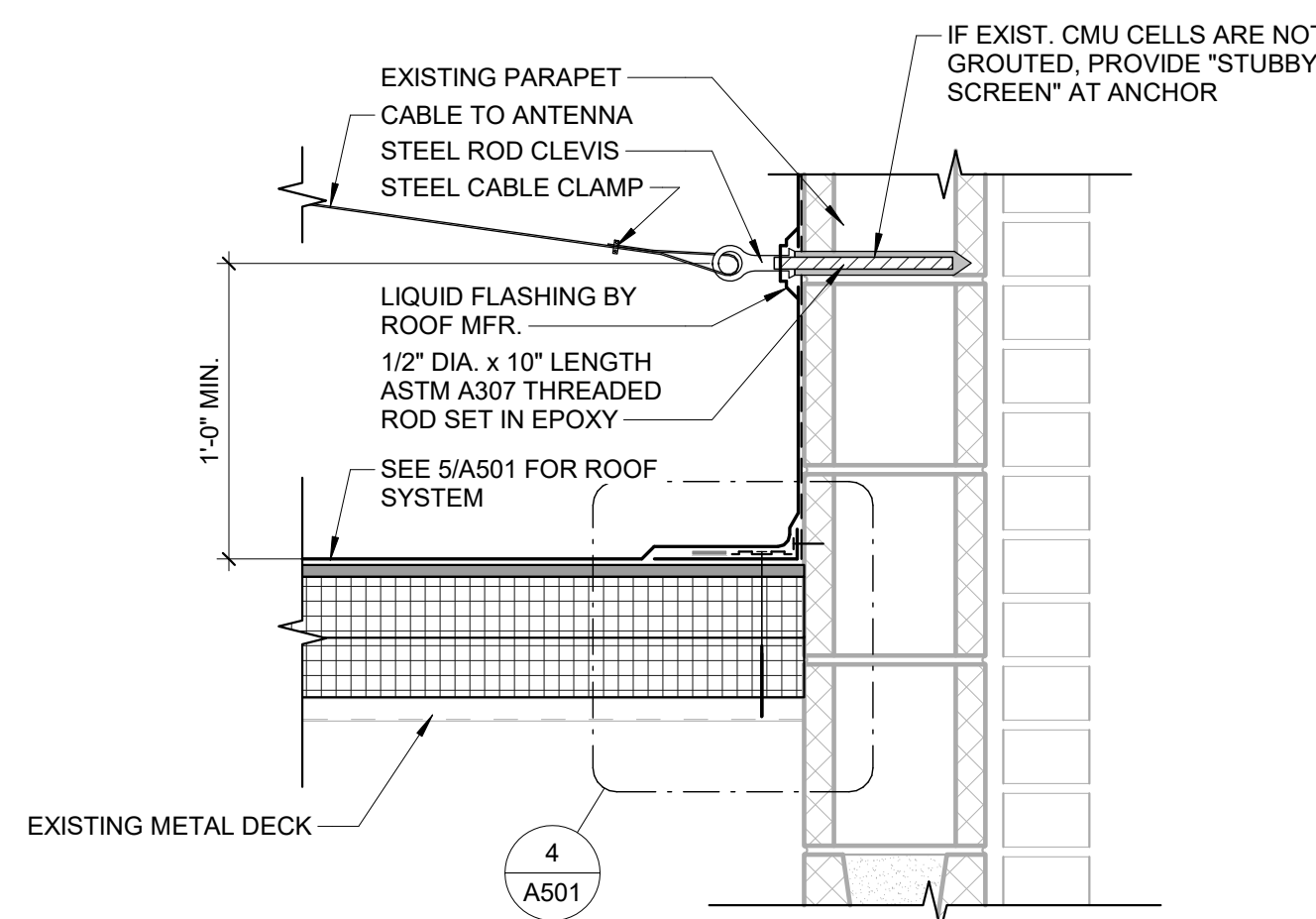
7 TYP. CURB DETAIL WHERE EQUIP. REMAINS IN-PLACE
1 1/2" = 1'-0"



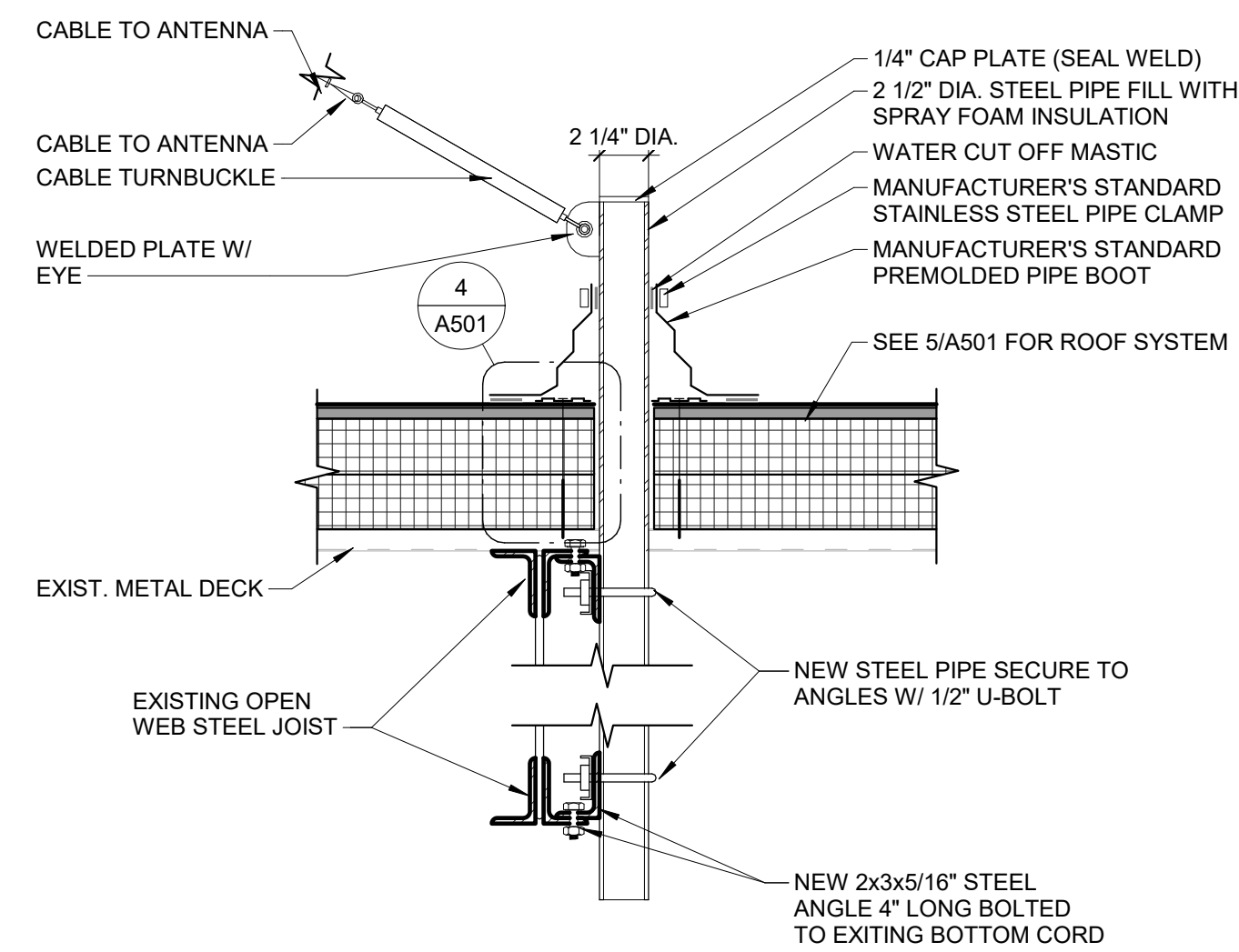
8 TYP. PIPE PENETRATION
1 1/2" = 1'-0"



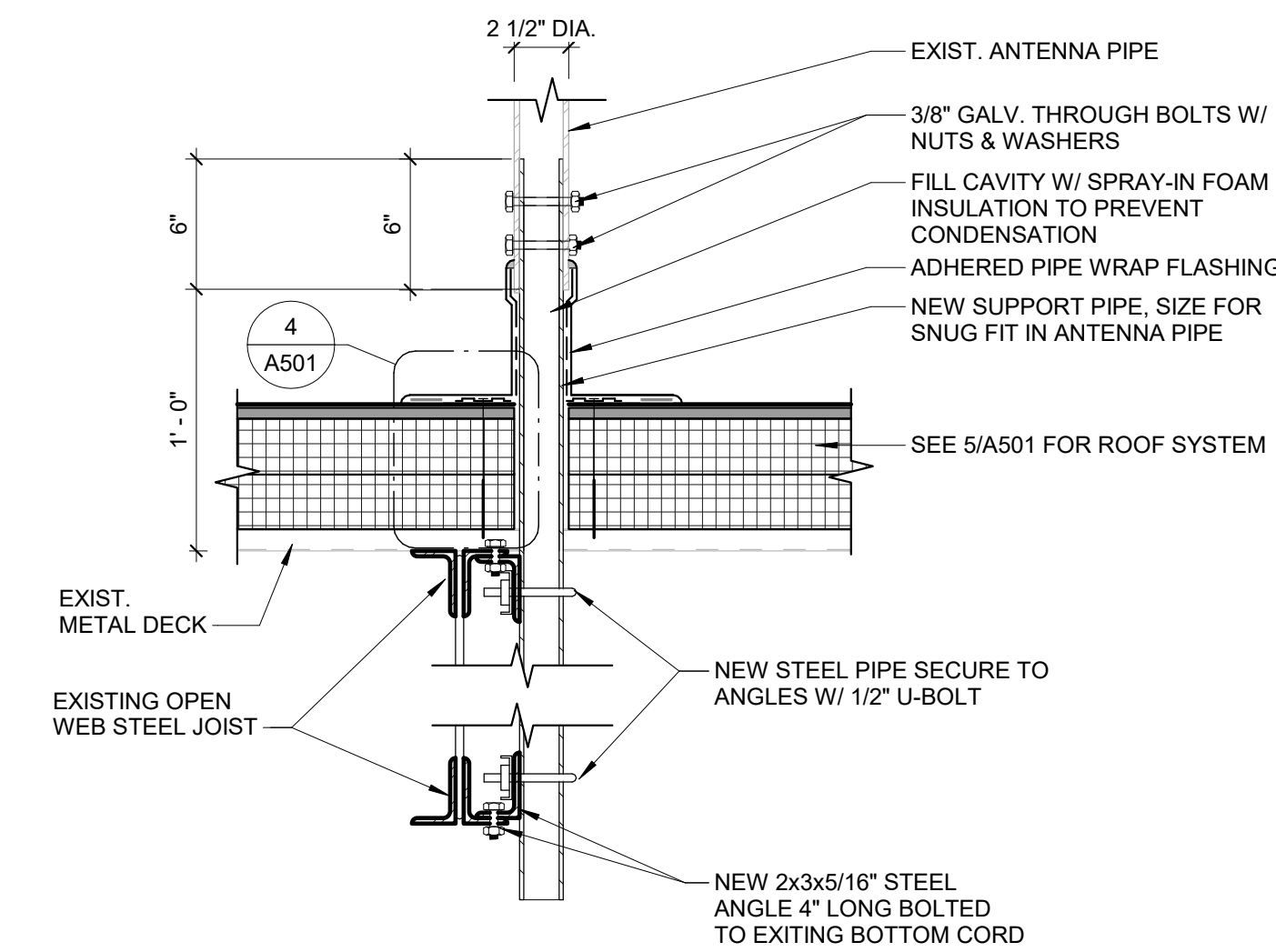
9 ROOF RIDGE DETAIL
1 1/2" = 1'-0"



11 CABLE PARAPET ATTACHEMENT DETAIL
1 1/2" = 1'-0"

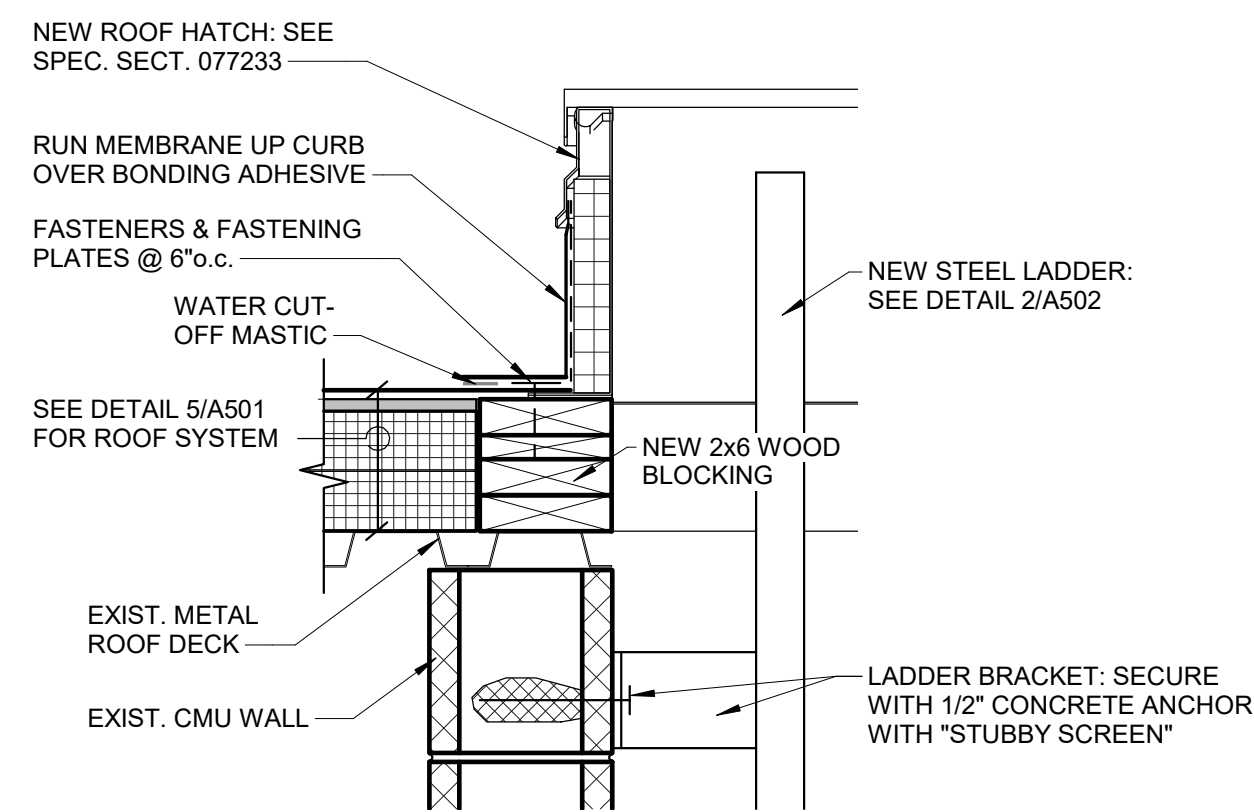


12 ANTENNA CABLE ATTACHMENT DETAIL
1 1/2" = 1'-0"

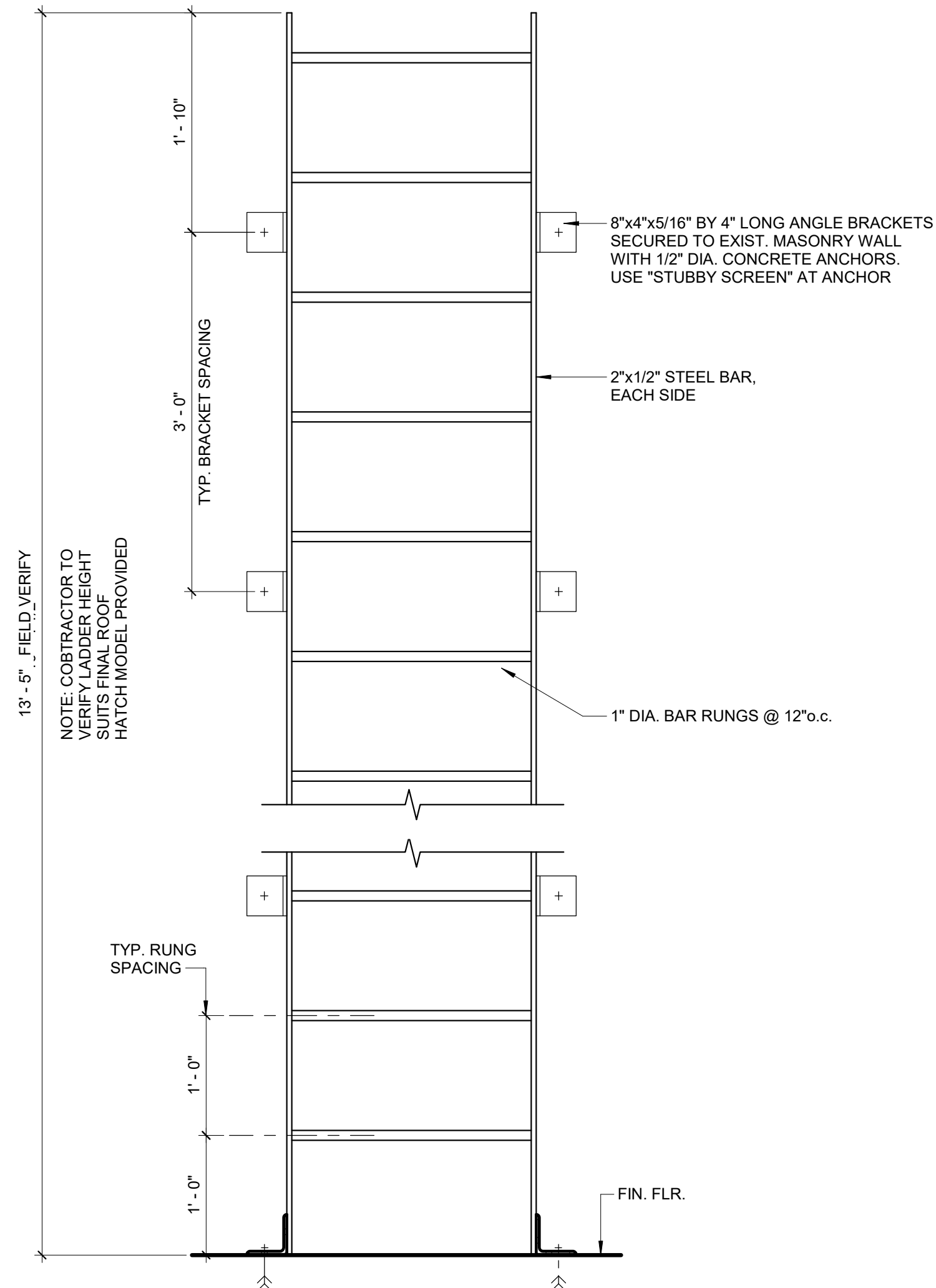


13 ANTENNA BASE DETAIL
1 1/2" = 1'-0"

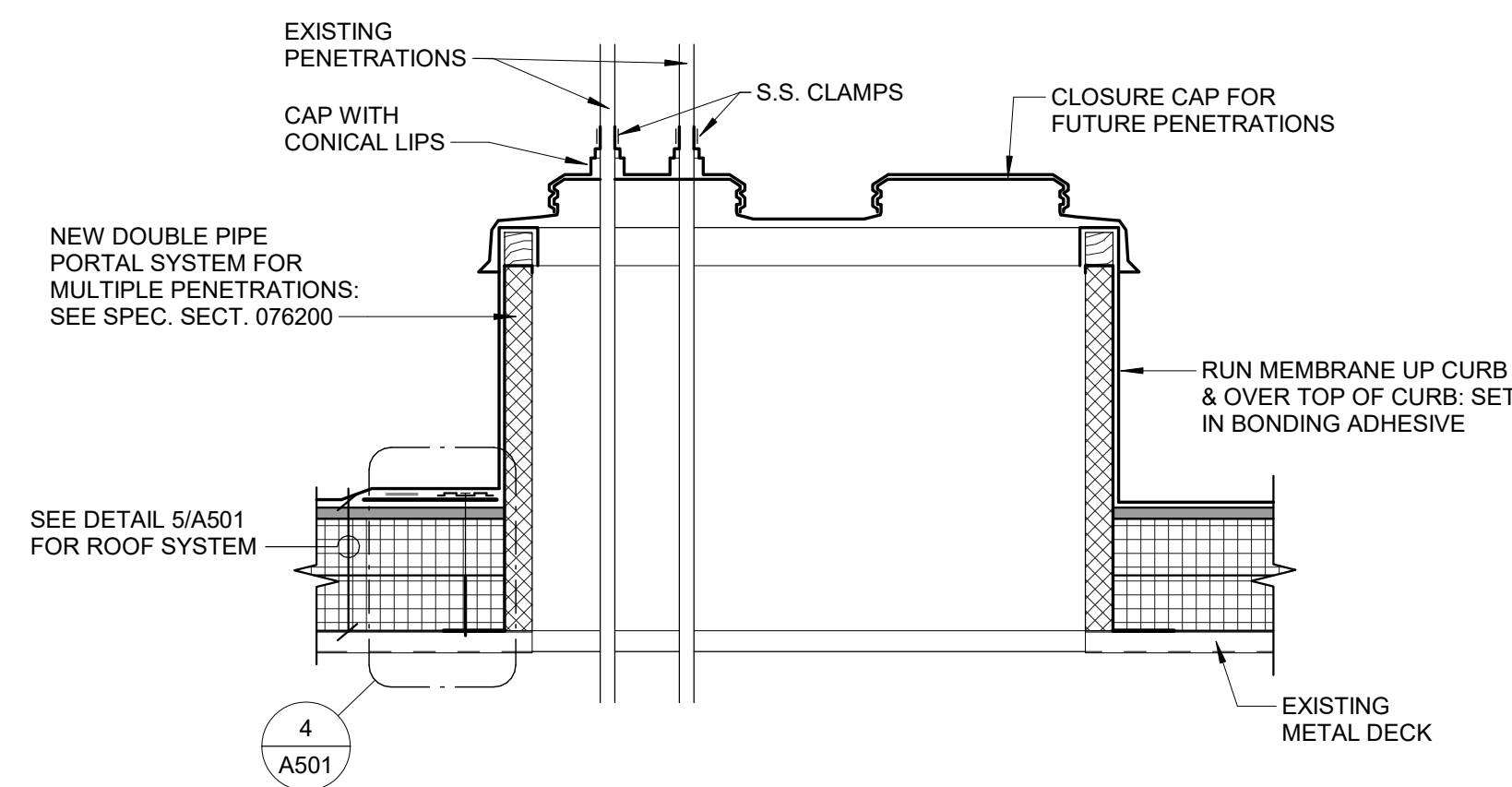
0 3" 6" 1'
SCALE: 1 1/2" = 1'-0"



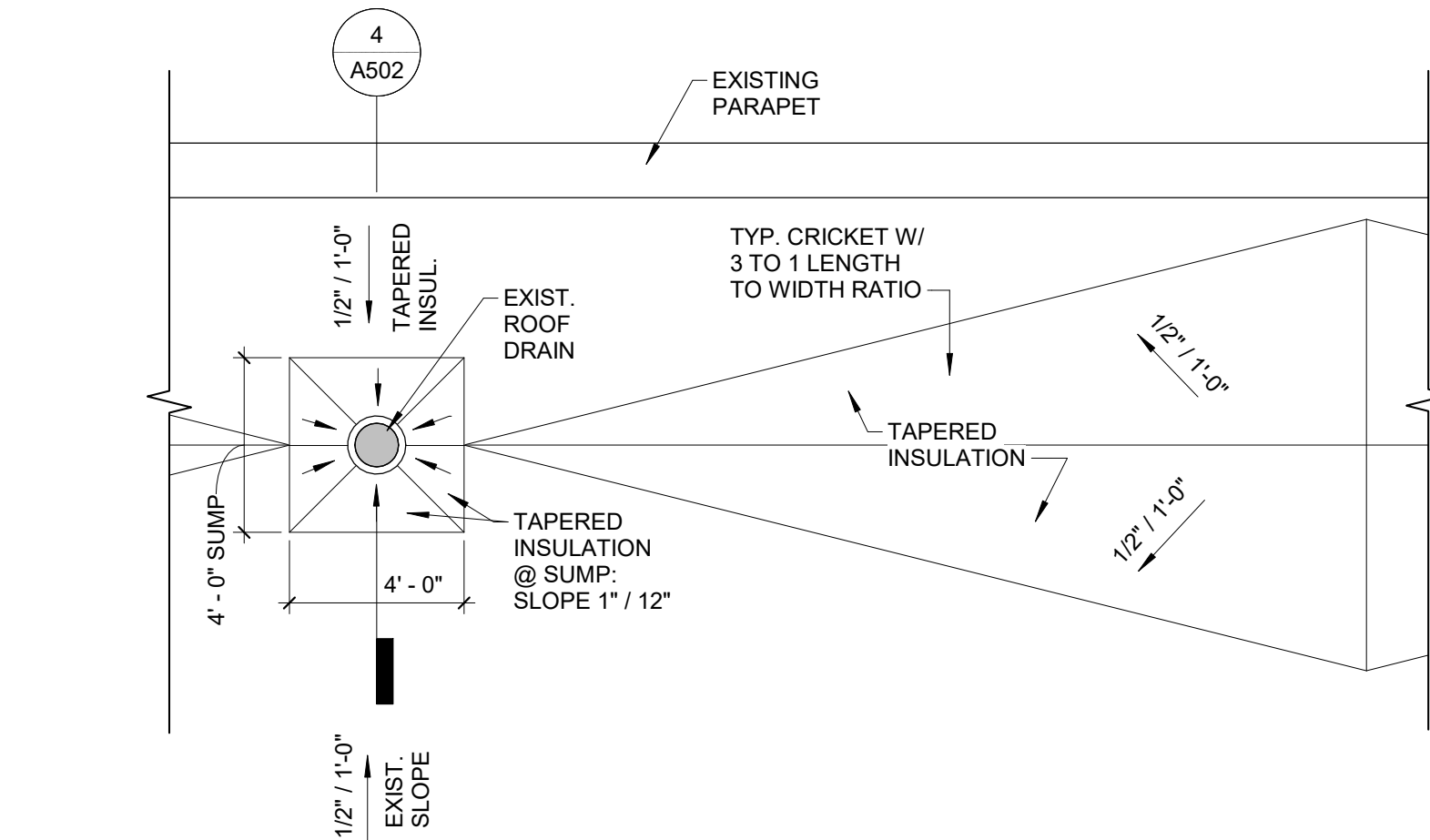
1 DETAIL: ROOF HATCH
1 1/2" = 1'-0"



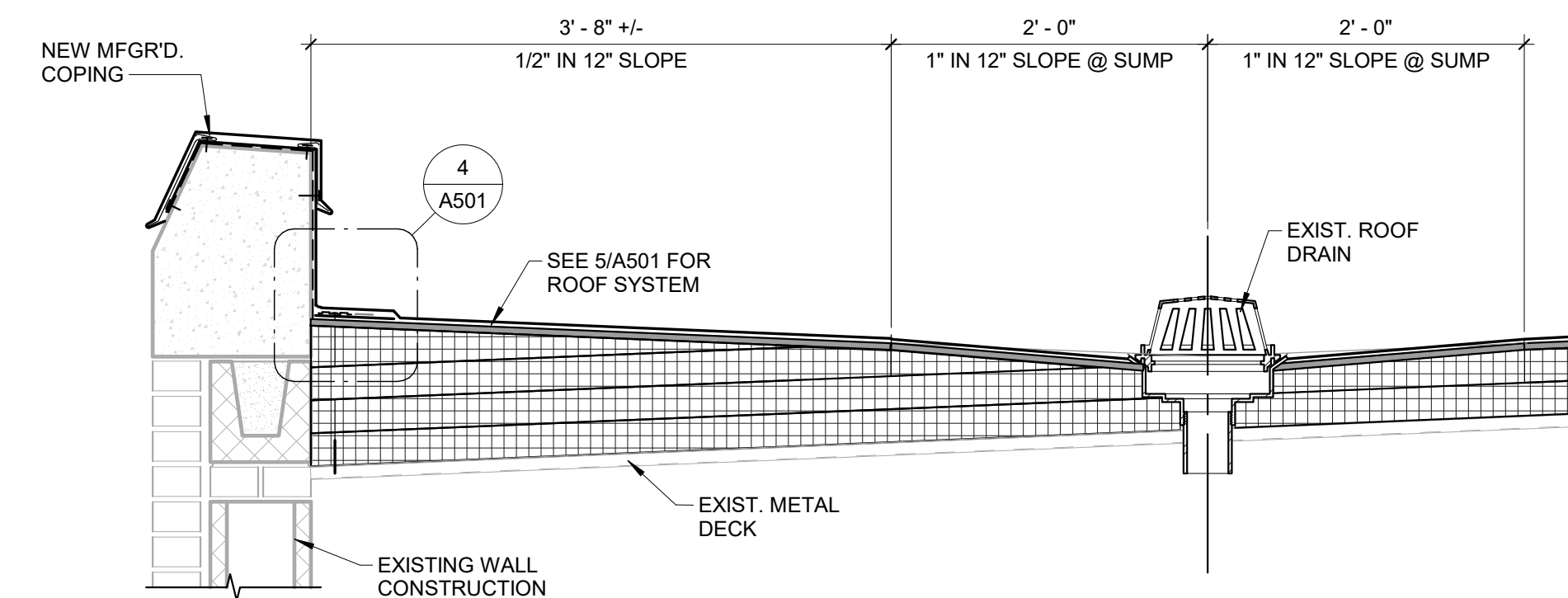
2 ELEVATION: NEW STEEL LADDER AT ROOF HATCH
1" = 1'-0"



5 Portal Plus
1 1/2" = 1'-0"



3 TYPICAL SUMP/CRICKET PLAN
NTS



4 CRICKET & SUMP DETAIL
NTS



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