

SCRIM & SKYLIGHT REPLACEMENT BILLINGS PARMLY LIBRARY 510 NORTH BROADWAY BILLINGS, MONTANA

document status:

| Date: | Phase: | Status: |
|---------|-------------------------------|---------|
| 3/12/21 | Schematics Review | ● |
| 4/9/21 | Design Development Review | ● |
| 5/26/21 | Construction Documents Review | ● |
| 6/1/21 | Bidding/ Negotiating | ● |
| 6/1/21 | For Construction | ● |

abbreviations:

| | | |
|-------------------------------|-------------------------------|--------------------------|
| • AT | FD - FLOOR DRAIN | O.S.C. - OWNER SUPPLIED |
| ADJ. - ADJUSTABLE | FDN - FOUNDATION | CONTR. INSTALLED |
| ALT. - ALTERNATE | FE - FIRE EXTINGUISHER | IE - PLATE |
| ALUM. - ALUMINUM | FEF - FACE OF EXISTING | FLNBG - PLUMBING |
| APPROX. - APPROXIMATE | FFL - FOUNDATION | FLTD - PLYWOOD |
| BD - BOARD | FLN - FLAMED FLOOR LEVEL | FSI - POUNDS PER |
| BLDG. - BUILDING | FLR - FLOOR | SQUARE INCH |
| BLKg - BLOCKING | FLRG - FLOOR GLASS REINFORCED | PSF - POUNDS PER |
| BSP - BATTING OF SHEATHING | PANEL | SQUARE FOOT |
| CAB. - CABINET | FG - FOOTING | RO - REINFORCED OPENING |
| € - CENTERLINE | FGF - FACE OF FOUNDATION | REQD - REQUIRED |
| CHU - CONCRETE MASONRY UNIT | FIG - FOOTING | RM - ROOM |
| COC - CENTER OF COLUMN | GB - GYPSUM BOARD | SCU - SOLID CORE WOOD |
| COL. - COLUMN | GR - HORIZONTAL | SH - SHEATH |
| CONC. - CONCRETE | HOU - HOLLOW CORE WOOD | SG - SQUARE |
| CONTR. - CONTRACTOR | HMT - HOLLOW METAL | STOR - STORAGE |
| CPP - COMPOSITE POLYMER PANEL | INT - INSULATION | STL - STEEL |
| DEL. - DOUBLE | INT. - INTERIOR | T&G - TONGUE AND GROOVE |
| DEPO. - DEPOSIT | MANF. - MANUFACTURER | TOP - TOP OF BEARING |
| DF - DRINKING FOUNTAIN | MECH. - MECHANICAL | TOP. - TOP OF FOOTING |
| DIA. - DIAMETER | MIN. - MINIMUM | TOP. - TOP OF PLATE |
| D.S. - DRAIN SPOUT | MTL - METAL | TOP. - TOP OF WALL |
| EA - EACH | NO. - NUMBER | TS - THERM. SHELL |
| EXP. ANCH. - EXPANSION ANCHOR | NO. NOT APPLICABLE | TYPE - TYPE |
| ELECT. - ELECTRICAL | NIC - NOT IN CONTRACT | VB - VAPOR BARRIER |
| ELEV. - ELEVATION | NO. OF SPOTS LIT | VBND - VERTICAL |
| EQ - EQUAL | NTS - NOT TO SCALE | WB - WATERTIGHT |
| EXP. - EXPANDING | OC - ON CENTER | WC - WATERTIGHT CLOSET |
| EXP. - EXPANSION | | WD - WOOD |
| EXT. - EXTERIOR | | W/ - WITH |
| | | W/O - WITHOUT |
| | | URGB - WATER RESISTANT |
| | | GYPSUM BOARD |
| | | WUF - WELDED WIRE FABRIC |

symbols legend:

| | | | | | |
|--|-------------|-----------------------|--|-----------------|----------------|
| | WATER SHEET | DETAIL | | NEW | SPOT ELEVATION |
| | WATER SHEET | WALL SECTION | | CONTRACT LIMITS | |
| | REF. | NORTH ARROW | | EXISTING TREE | |
| | TO PLATE | REFERENCE ELEVATION | | CENTER LINE | |
| | | GRID LINE | | | |
| | | NEW CONSTRUCTION | | | |
| | | EXISTING CONSTRUCTION | | | |

mat'l legend:

| | |
|--|----------------------------|
| | CONCRETE |
| | DIMENSIONAL LUMBER SECTION |
| | BLOCKING SECTION |
| | FINISH LUMBER SECTION |
| | BATT OR BLANKET INSULATION |
| | RIGID INSULATION |
| | PLYWOOD |
| | GYPSUM BOARD |
| | CMU - PLAN |
| | MASONRY (BRICK) |
| | COMPACTED FILL |
| | UNDISTURBED SOIL |
| | COMPACTED GRAVEL FILL |
| | STEEL |
| | CMU - SECTION |

special note:

The final building configuration may differ from these design documents due to the implications of code requirements, coordination of mechanical, electrical, structural systems, modifications by the occupants of the building and the need for on-site adjustments during the course of construction.

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architectural sheet index:

| | |
|------|---|
| A1.0 | TITLE SHEET |
| A2.0 | SITE PLAN |
| A3.0 | ROOF PLAN |
| A4.0 | BUILDING ELEVATIONS |
| A4.1 | BUILDING ELEVATIONS |
| A4.2 | BUILDING ELEVATIONS |
| A4.3 | BUILDING EXT. PHOTOS |
| A4.4 | BUILDING SCRIM INFO. & DETAILS |
| A5.0 | SCRIM & SKYLIGHT REFERENCE SPECIFICATIONS |

general notes:

General provisions and specifications apply to these drawings.

1. The Contractor shall implement project work shown in compliance with the contract documents.
2. Any variation found during construction due to actual field conditions which affect the construction shall be reported to the Architect.
3. The work of this project shall be done in strict accordance with applicable Federal, State, and Local codes/ ordinances at date of construction.
4. Contractor shall reference the required sheets of the drawings for locations of items and coordinate the installation of all items.
5. Contractor shall verify applicable existing conditions and dimensions including but not limited to existing site dimensions and other site conditions prior to bidding and beginning work.
6. **Caution!** Contractor to use extreme care during demolition, cutting / patching to avoid utility lines. Locations indicated are approximate - verify with local officials.
7. Heavy trucks may be driven over existing concrete walks and asphalt only with proper ramps, planking and protection. Contractor shall be responsible for any damage to existing concrete slabs and asphalt, and shall repair or replace concrete/asphalt and install new material as required by damage during construction.
8. Contractor shall repair any existing or in progress installation damaged during construction to match existing at no additional cost.
9. Construction details are suggested means - alternate proposals of equal value within code may be considered per the general requirements.
10. Materials not furnished by the Owner shall be supplied by the Contractor, including all anchors, fasteners, sealants, trim and touch up as required for complete installation.
11. Contractor is responsible for frames, and other blocking for in-place equipment. Verify on site prior to bidding.
12. Provide additional members i.e. (blocking, anchors, shims) as required to satisfy detailing and construction requirements.
13. Plates or blocking in contact w/concrete masonry, or ground moisture to be treated.
14. Plumbing and ducts to be installed within building insulation.
15. These documents are derived from existing documents and are to be field verified in all instances. The owner has available design/construction documents, submittal documents, shop drawings and other project material information for this project. **THE SCOPE OF THIS PROJECT IS THE REMOVAL & REPLACEMENT OF HAIL DAMAGED INSTALLATIONS ONLY.**
16. Dimension note: Dimensions are to match existing and to be verified on site prior to beginning work. Revised items must be incorporated within the existing conditions. (Unless noted otherwise)
17. NOTE: These drawings are comprised of reference drawings of the building design/construction documents and designate the primary information for this repair/replacement project. Items/conditions to be altered are noted.

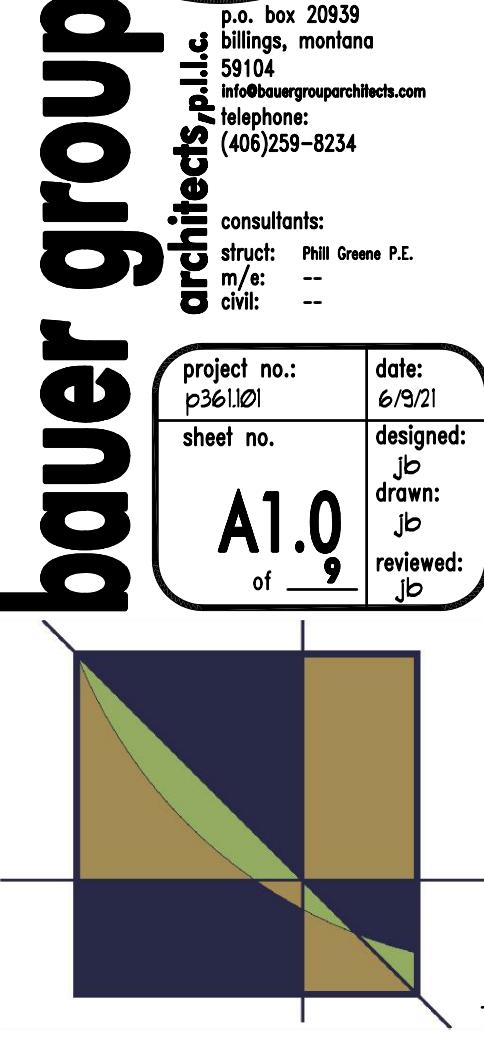
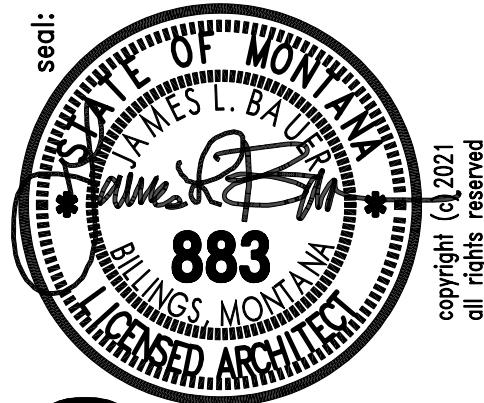
| | |
|--|------|
| GENERAL PROVISIONS AND SPECIFICATIONS OF THE CONTRACT DOCUMENTS APPLY TO THESE DRAWINGS. | |
| material note legend: | |
| DIV-5; METALS: | |
| DIV-7; THERMAL & MOISTURE: | |
| CONTRACTOR'S REVIEWED AND ACCEPTED FOR CONSTRUCTION - SIGN AND DATE ALL SHEETS BELOW | |
| contractor's signature | date |

| | | | |
|-----|----------|----|------|
| No. | revision | by | date |
| | | | |
| | | | |
| | | | |

SCRIM & SKYLIGHT REPLACEMENT
BILLINGS PARMLY LIBRARY
510 NORTH BROADWAY
BILLINGS, MONTANA

sheet: 1 of 1

title: TITLE SHEET
GENERAL NOTES, DATA, LEGENDS AND STATUS



general notes: - roof

1. DEMOLITION INCLUDES THE REMOVAL AND DISPOSAL OF ROOF CONDITIONS AS INDICATED ON DRAWINGS AND SPECIFICATIONS.
2. VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING DEMOLITION WORK
3. CONTRACTOR SHALL CAREFULLY REMOVE ALL ITEMS AS INDICATED. MATERIALS SCHEDULED FOR RE-USE ARE TO BE REMOVED, FULLY CLEANED, AND STORED READY FOR REINSTALLATION.
4. REMOVE AND DISPOSE OF ALL REMAINING DEMOLISHED MATERIALS LEGALLY OFF SITE.
5. REMOVE EXISTING ROOF IN DESIGNATED RE-ROOF AREA ONLY. ONLY THAT PORTION OF THE EXISTING ROOF SHOULD BE REMOVED THAT CAN ADEQUATELY BE RECONSTRUCTED AND KEPT DRY DURING CONSTRUCTION. TEMPORARY FLASHING AND COVER MUST BE MAINTAINED AT THOSE AREA BREAKS (EXISTING TO NEW) DURING CONSTRUCTION TO ENSURE AN INTEGRAL ROOF CLOSURE.
6. REMOVE REGLET, FLASHING AND COUNTER-FLASHING ON VERTICAL SURFACES WITHIN THE REROOF AREA TO FACILITATE RE-ROOF WORK.
7. PROTECT CURBS AT UNITS AND RECONSTRUCT THOSE TO PROVIDE ADEQUATE ELEVATION OF UNITS FROM THE NEW ROOF SURFACE FOR FLASHING.
8. VERIFY VENT PIPES ARE ACTIVE.
9. ME LOCATIONS ARE APPROXIMATE- VERIFY ON SITE PRIOR TO BEGINNING PROJECT.
10. CONTRACTOR TO PROVIDE THE NECESSARY TEMPORARY SUPPORT/BRACING TO EXECUTE THE WORK.
11. THE CONTRACTOR IS TO ADHERE TO APPLICABLE CRITERIA REGARDING THE SAFE & EFFECTIVE IMPLEMENTATION OF THE WORK.
12. THE CONTRACTOR IS TO MAINTAIN A CLEAN SITE / ROOF AREA DURING THE DEMOLITION WORK & SURROUNDING AREA.
13. THE CONTRACTOR IS TO KEEP ADJACENT STREETS, ENTRIES, SIDEWALKS, ALLEY AND YARD AREAS FREE OF DELETERIOUS MATERIALS AND SAFE DURING THE WORK.
14. CONTRACTOR TO NOTIFY ARCHITECT CONCERNING ANY IRREGULARITIES FOUND DURING DEMOLITION.

general notes:-roof plan

1. NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA)- "ROOFING AND WATER PROOFING MANUAL, CURRENT EDITION".
2. SHEET METAL AND AIR CONDITIONING NATIONAL CONTRACTORS ASSOC. (SMACNA)- "ARCHITECTURAL SHEET METAL MANUAL CURRENT EDITION".
3. RAISE/ EXTEND/ RELOCATE CURBS, PENETRATIONS AND SERVICE LINES AS REQUIRED TO INSTALL ROOF SYSTEM.
4. MECHANICAL, ELECTRICAL AND PLUMBING WORK TO BE DONE BY LICENSED MECHANICAL/ ELECTRICAL/ PLUMBING CONTRACTOR(S).
4. PRIOR TO LEAVING THE PROJECT SITE EACH DAY, THE CONTRACTOR SHALL REMOVE ALL SOLVENTS, PRIMERS, GLUES AND SEALANTS FROM THE SITE OR STORE THEM ON-SITE IN A LOCKED, VANDAL PROOF BOX.
5. PROVIDE AND INSTALL CRICKETS ON THE "UP SLOPE" SIDE OF THE ROOF EQUIPMENT CURBS. FINISHED SLOPE OF CRICKETS TO BE $1/2":1'-0"$ (RISE:RUN) MINIMUM.
6. PROVIDE NEW PVC CONDUIT AND PIPE SUPPORTS FOR COMMUNICATION CABLES ROUTED ACROSS ROOF AREAS
7. CORRECT NON-COMPLIANT CONDITIONS PRIOR TO BEGINNING ROOF WORK
8. MAINTAIN TEMPORY FACILITIES APPROPRIATE FOR ACTIVITIES IN PROGRESS.
9. PREVENT MOISTURE ACCUMULATION DURING ROOFING PROCESS.
10. PREVENT MOISTURE/WEATHER DAMAGE OCCURRING DURING CONSTRUCTION.
11. MAINTAIN WEATHER RESISTANT PROVISIONS
@ THE END OF EACH DAYS WORK.

notes:

1. PRIOR TO HOT-AIR WELDING, CLEAN AND PREPARE THE WELD AREA OF THE BOOT AND ROOFING MEMBRANE PER MANUFACTURER'S RECOMMENDATION
2. INSULATION AND FIELD MEMBRANE MUST BE CUT TIGHTLY AROUND PENETRATION BASE.
3. EXTEND PIPEMENT AS REQUIRED TO PROVIDE 18" MIN. HEIGHT ABOVE FINISHED ROOF.
4. PRE-MOLDED PIPE SEAL MUST HAVE INTACT RIB AT TOP EDGE REGARDLESS OF PIPE DIAMETER
5. FOLLOW SPECIFIC MEMBRANE MANUFACTURER'S REQUIREMENTS FOR SEAM FASTENERS AROUND PENETRATIONS.

notes:

1. REQUIREMENTS FOR SPECIFIC WALK-PAD INSTALLATION SUPERSEDE DETAIL.
2. REFER TO MANUFACTURER'S SPECIFIC REQUIREMENTS FOR SEALANT ON CUT OR NON-ENCAPSULATED EDGES OF WALK-PAD.
3. AVOID INSTALLING WALK-PAD OVER FIELD SEAMS AND FASTENER ROWS AND MUST BE GAPPED FROM THESE AREAS MIN. 6 IN.

note-roof expansion joints:

CONTINUOUS EXPANSION JOINTS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS:

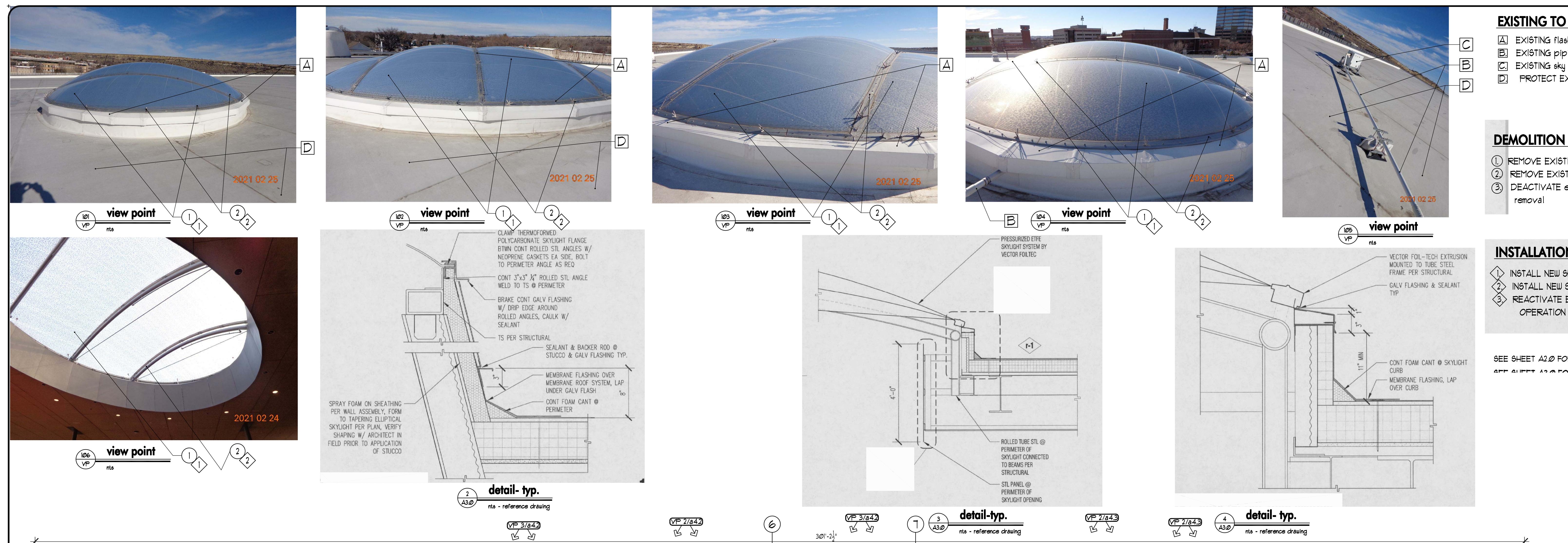
1. @ BUILDING EXPANSION JOINTS.
2. @ SUBSTRATE EXPANSION JOINTS.
3. WHERE SIGNIFICANT STRUCTURAL MOVEMENT OCCURS, SUCH AS:
 - a. CHANGES IN ROOF LINE.
 - b. CHANGES IN BUILDING SHAPE &/OR STRUCTURAL SYSTEM
 - c. @ SUBSTRATE CHANGES
4. SUBSTRATE MOVEMENT, EXPANSION & CONTRACTION OF THE SYSTEMS AND ADJACENT MATERIALS SHALL BE TAKEN INTO ACCOUNT IN THE DESIGN OF THE EXPANSION JOINTS, WITH CONSIDERATION OF SEALANT PROPERTIES, INSTALLATION CONDITIONS, TEMPERATURE RANGES, THERMAL COEFFICIENT OF EXPANSION OF MATERIALS, JOINT WIDTH TO DEPTH RATIOS & OTHER MATERIAL FACTORS.

| CONTRACTOR'S REVIEWED AND ACCEPTED FOR CONSTRUCTION - SIGN AND DATE ALL SHEETS BELOW | | | |
|---|----------|------|------|
| contractor's signature | | date | |
| no. | revision | by | date |
| | | | |
| | | | |
| | | | |

project: **SCRIM & SKYLIGHT REPLACEMENT**
BILLINGS PARMLY LIBRARY
510 NORTH BROADWAY
BILLINGS, MONTANA

sheet title: **PARTIAL ROOF PLAN**
SKY LIGHT DETAIL
ALTERNATE -CLEARSTORY

| | |
|--------------|-----------|
| project no.: | date: |
| p361.101 | 6/9/21 |
| sheet no. | designed: |
| | jb |
| | drawn: |
| | jb |
| A2.0 | |
| of | 9 |
| | reviewed: |
| | jb |



EXISTING TO REMAIN NOTES-EXTERIOR

- A EXISTING flashing TO REMAIN
- B EXISTING piping TO REMAIN
- C EXISTING sky light heater TO REMAIN
- D PROTECT EXISTING roof FROM DAMAGE

GENERAL PROVISIONS AND SPECIFICATIONS OF THE CONTRACT DOCUMENTS APPLY TO THESE DRAWINGS.

material note legend:

| | |
|---|----------|
| 1 | CLAMP |
| 2 | HEATERS |
| 3 | FLASHING |
| 4 | PIPE |
| 5 | ROOF |

DIV.-5; METALS:

DIV.-7; THERMAL & MOISTURE:

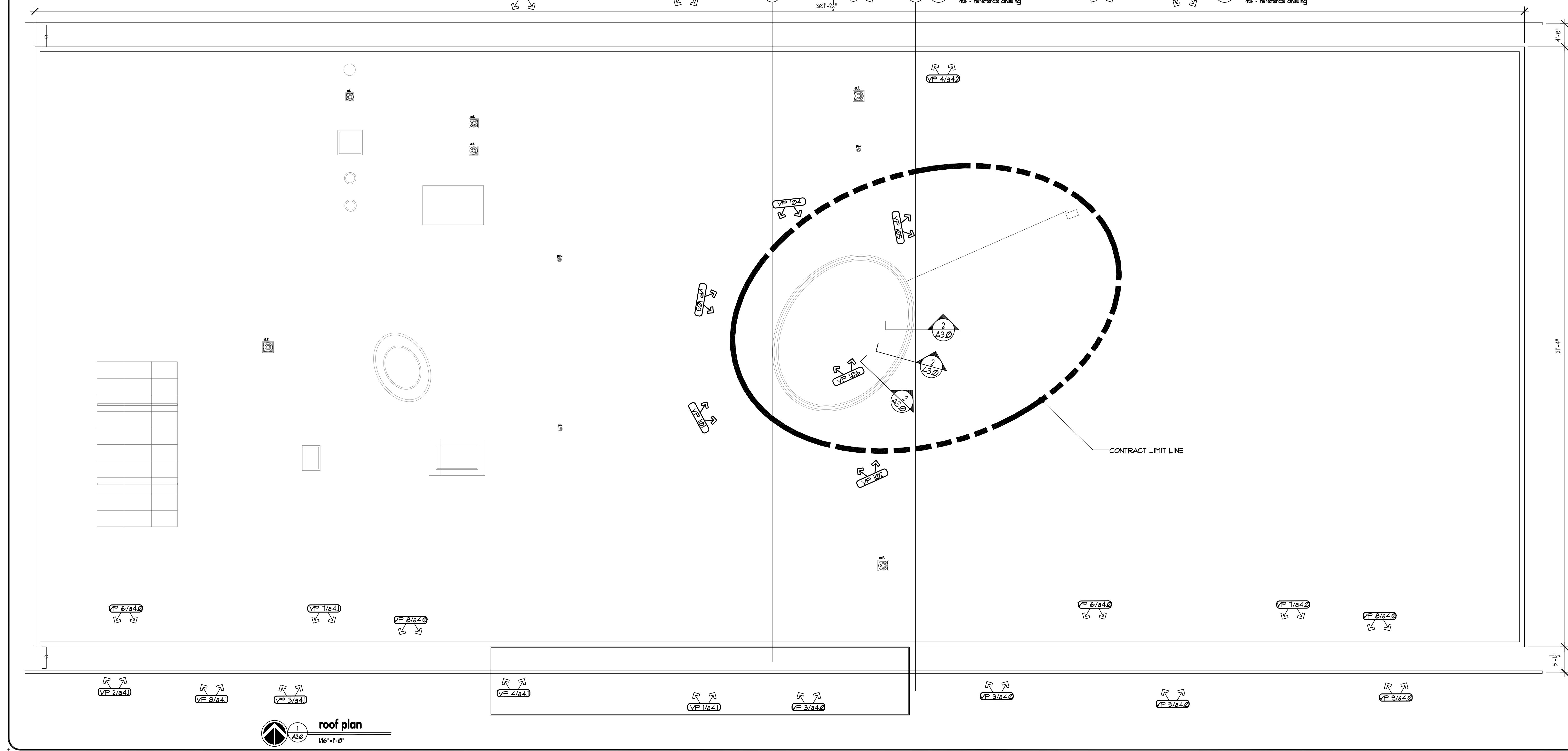
DEMOLITION NOTES - ROOF

- ① REMOVE EXISTING sky light
- ② REMOVE EXISTING accessories
- ③ DEACTIVATE existing equipment prior to removal

INSTALLATION NOTES - ROOF

- ① INSTALL NEW SKY LIGHT SYSTEM-SEE 1/A1?
- ② INSTALL NEW SKY LIGHT ACCESSORIES-SEE 1/A1?
- ③ REACTIVATE EXISTING EQUIPMENT FOR PROPER OPERATION

SEE SHEET A2.0 FOR: GENERAL, DEMO, & REPAIR NOTES
SEE SHEET A2.0 FOR VIEW POINT LOCATIONS



CONTRACTOR'S REVIEWED AND ACCEPTED FOR CONSTRUCTION - SIGN AND DATE ALL SHEETS BELOW

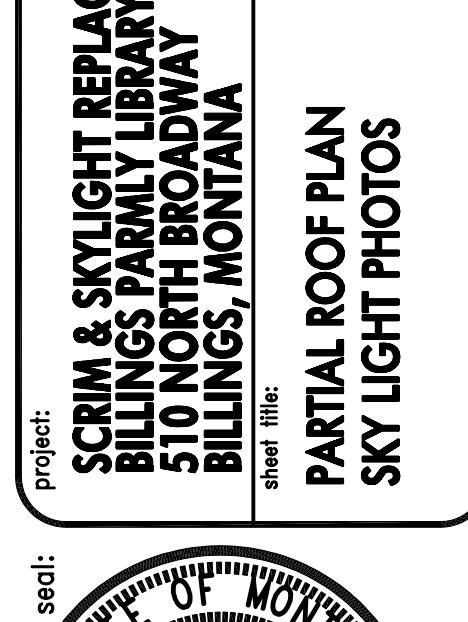
contractor's signature _____ date _____

| LEGEND: | RECEIVED |
|---------|---------------------|
| | EXHAUST FAN |
| | HVAC/RTU |
| | SOLAR PANEL |
| | SKYLIGHT |
| | TURBINE VENT |
| | EXHAUST FAN |
| | FURNACE/HEATER FLUE |
| | GRAVITY VENT |
| | ROOF DRAIN |
| | PIPE VENT |
| | WALK PAD |
| | ELECTRICAL |

project: SCRM & SKYLIGHT REPLACEMENT
510 NORTH BROADWAY
BILLINGS, MONTANA

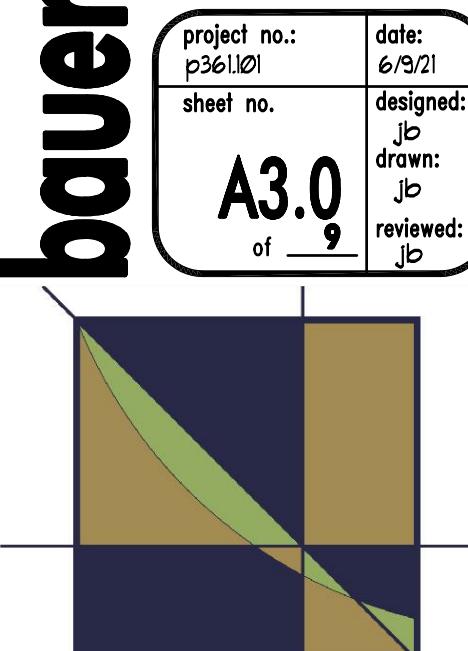
sheet: 1 of 1

partial roof plan
skylight photos



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architects, inc.
bauer group
Project no.: A3.0
Date: 6/19/21
Sheet no.: 1 of 9
Designed by: [Signature]
Drawn by: [Signature]
Reviewed by: [Signature]





SEE SHEET A20 FOR: GENERAL, DEMO, & REPAIR NOTES
SEE SHEET A30 FOR VIEW POINT LOCATIONS

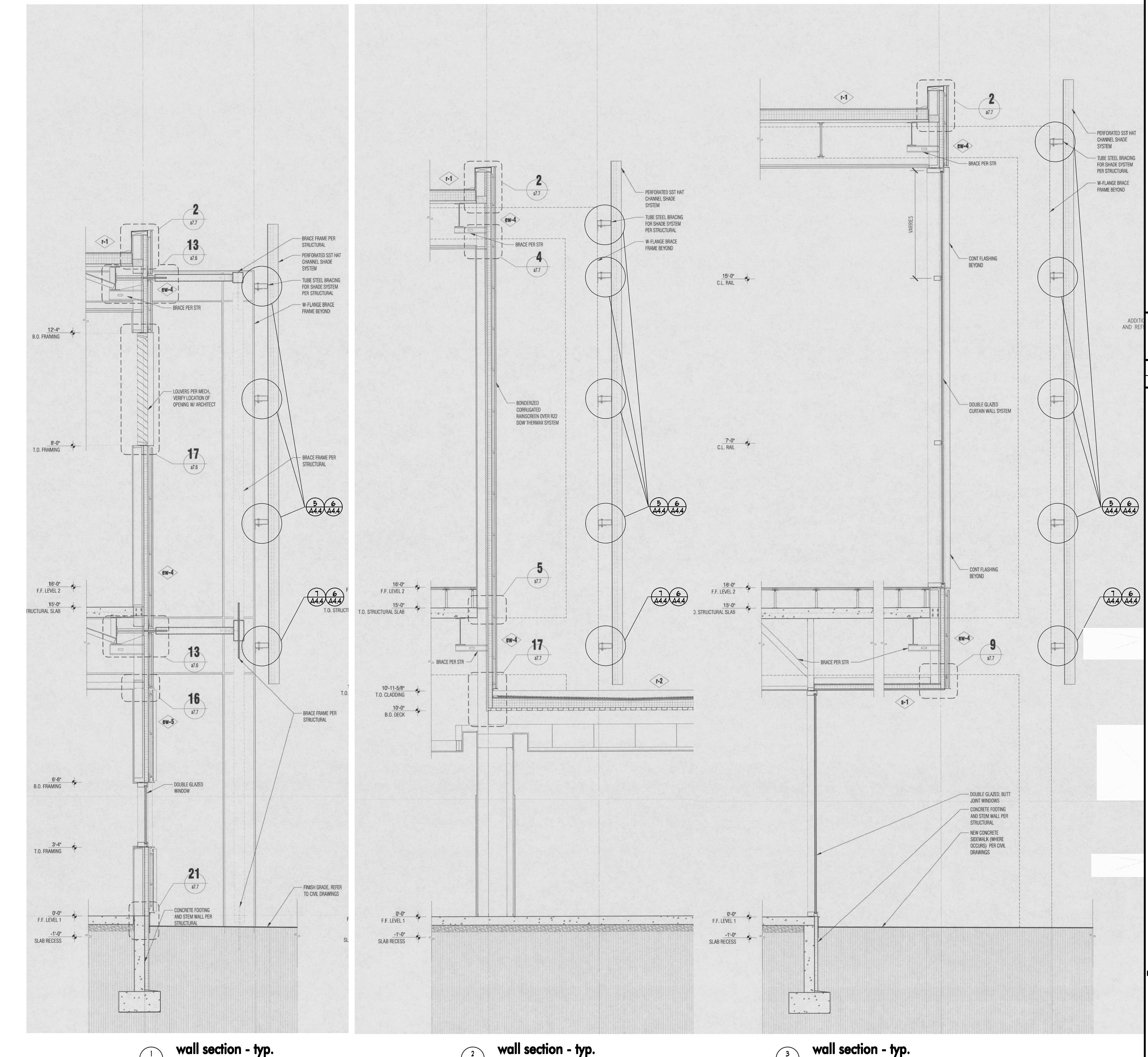
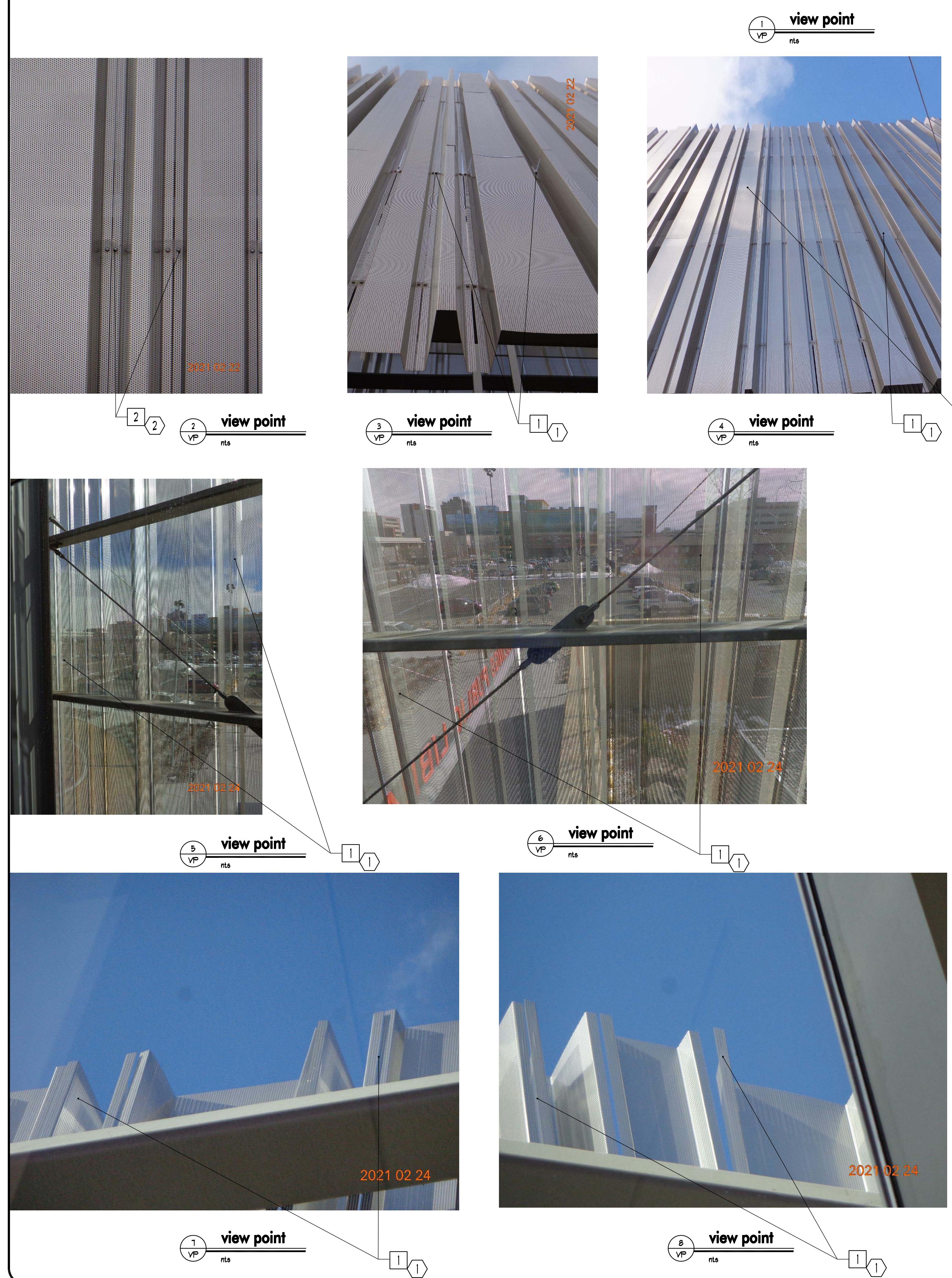
DEMOLITION NOTES - SCRIM/SCREEN


- ① REMOVE EXISTING scrim/screen
- ② REMOVE EXISTING trim, fasteners, washers etc.
- ③ INSTALL NEW SCRIM/SCREEN-SEE 5/A4.4, 6/A4.4, 7/A4.4 & 8/A4.4
- ④ INSTALL NEW ANGLE-SEE 6/A4.4
- ⑤ INSTALL NEW FASTENERS, WASHERS ETC. SEE 5/A4.4 & 7/A4.4


GENERAL PROVISIONS AND SPECIFICATIONS OF THE CONTRACT DOCUMENTS APPLY TO THESE DRAWINGS.

material note legend:

| |
|-----------------------------|
| DIV.-5; METALS: |
| |
| DIV.-7; THERMAL & MOISTURE: |
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