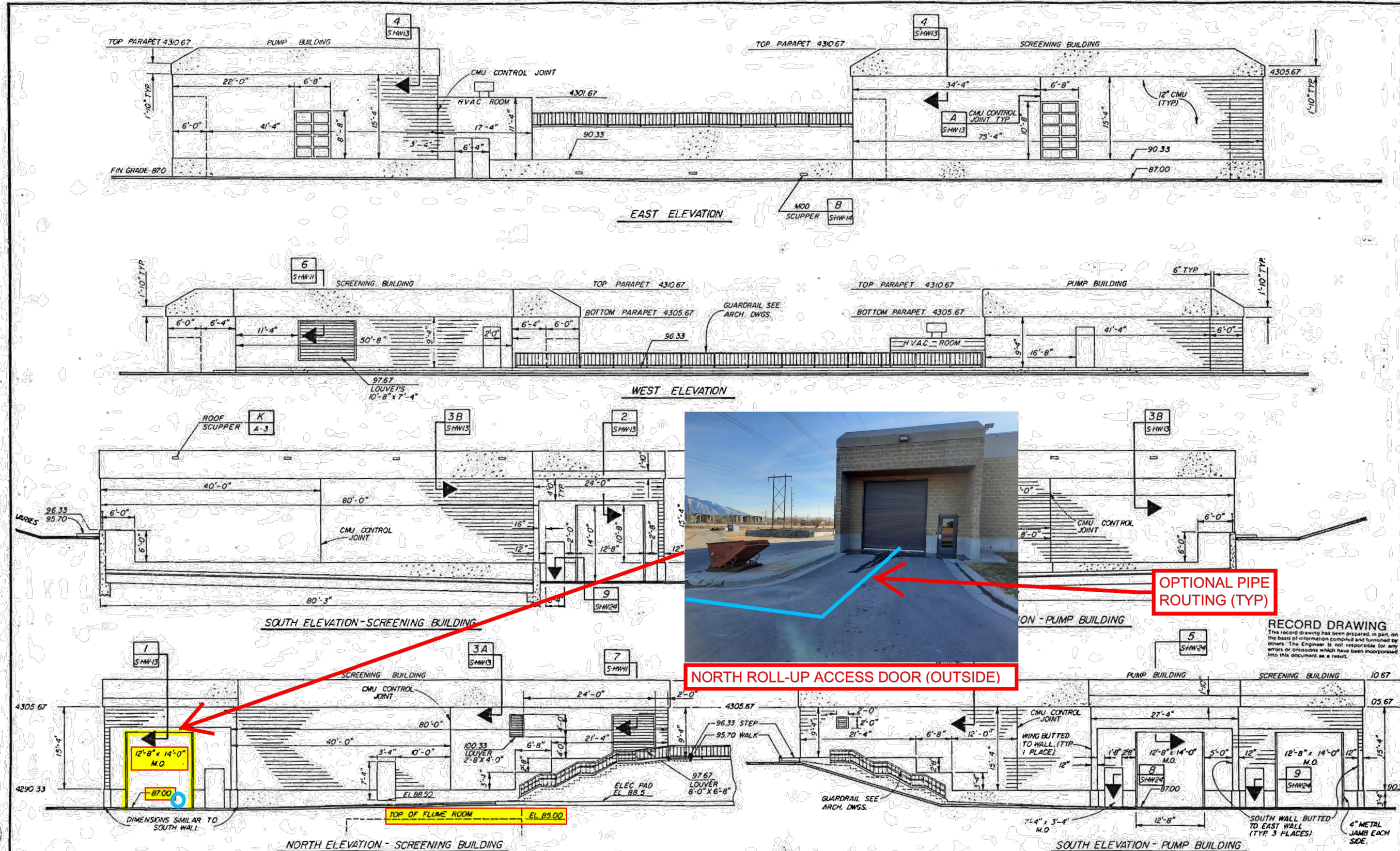


NO.	DATE	REVIEW	DESCRIPTION

DESIGN		DESIGN D. COWELL	DRAWN S. DUCKWORTH
REVIEW	CHECKED	S. MEYER	APPROVED B. PACKER
VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING		

RECORD DRAWINGS	EXISTING HEADWORKS BUILDING - 4	PROJECT NUMBER	177-20-01
DATE	APRIL 2021	SHEET	35 OF 37



RECORD DRAWING
 This record drawing has been prepared, in part, on the basis of information compiled and furnished by others. The Engineer is not responsible for any errors or omissions which have been incorporated into this document as a result.

<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REV	DATE	BY	DESCRIPTION					SCALE: 1/8" = 1'-0" DESIGNED: [Signature] DRAWN: [Signature] CHECKED: [Signature]	SUBMITTED: [Signature] PROJECT ENGINEER: [Signature] RECOMMENDED: [Signature] JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.	SOUTH VALLEY WATER RECLAMATION FACILITY PROJECT 2A HEADWORKS BUILDING ELEVATIONS	SHEET SHW-1 OF SHEETS
REV	DATE	BY	DESCRIPTION									

NO.	DATE	REV. BY	DESCRIPTION

SOUTH VALLEY WATER RECLAMATION FACILITY WEST JORDAN, UTAH	
DESIGN	DESIGN D. COWELL
REVIEW	CHECKED S. MEYER
VERIFY SCALE	BAR IS ONE INCH ON ORIGINAL DRAWING
APPROVED	APPROVED B. PACKER

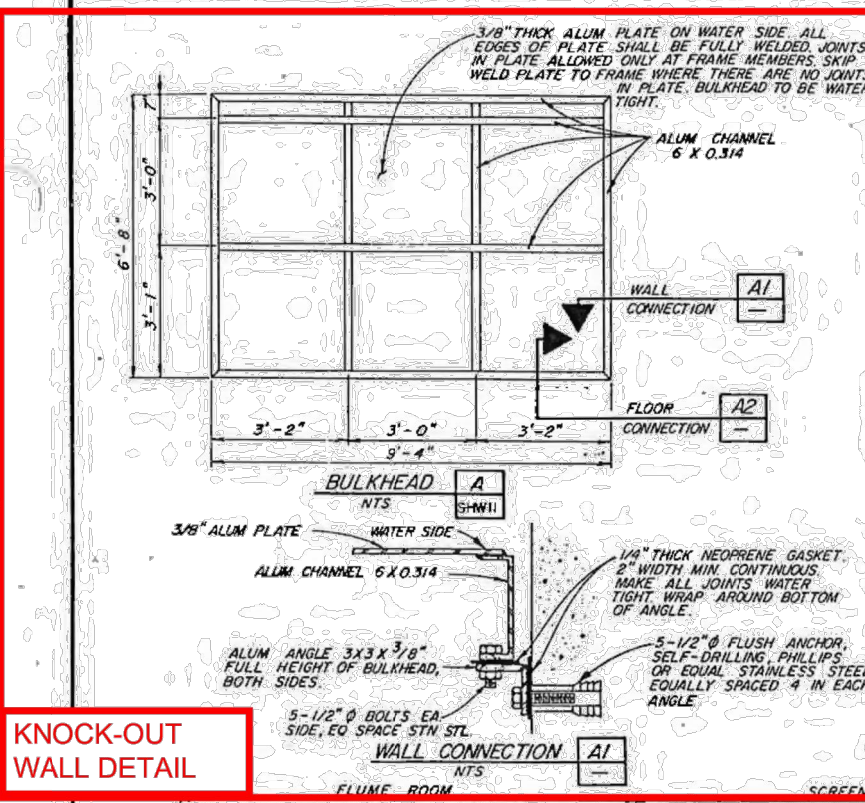
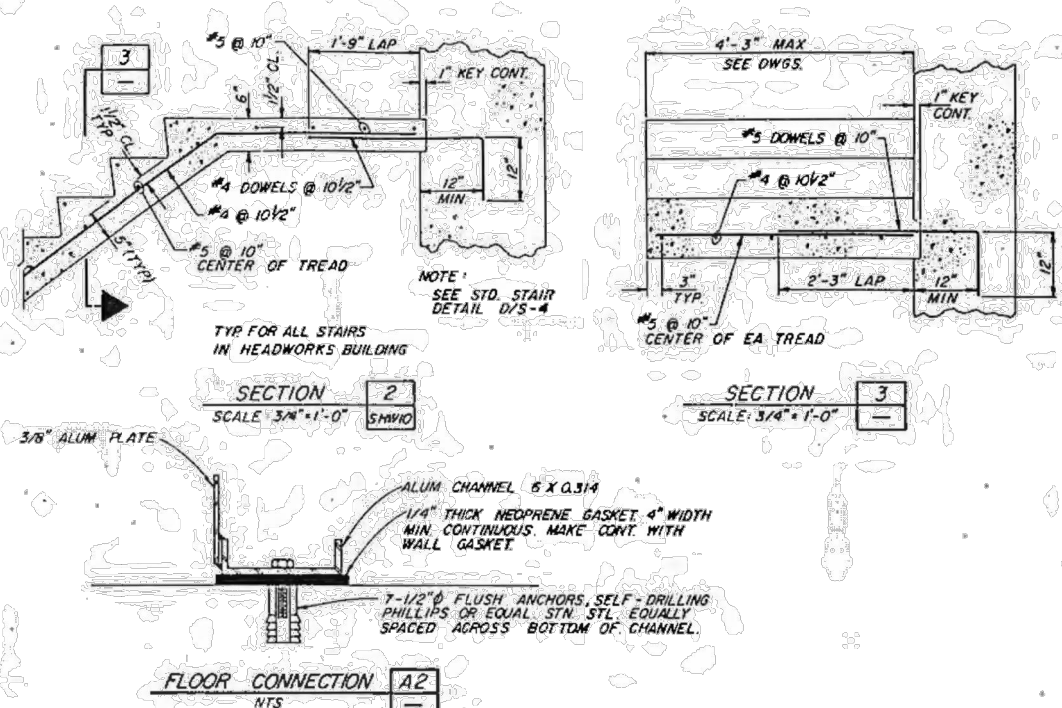
RECORD DRAWINGS	PROJECT NUMBER	177-20-01
DATE	APRIL 2021	
EXISTING HEADWORKS BUILDING - 5		
SHEET		SHW-3

HEADWORKS STRUCTURAL NOTES

- All poured-in-place concrete in the headworks building shall develop a compressive strength of 4,000 PSI minimum in 28 days.
- Precast prestressed double tee roof members shall be designed for all deadloads, a snow load of 30 PSF, and superimposed crane loads or conveyor loads as noted on the drawings. The double tees shall be designed by the precast manufacturer. The precast manufacturer shall also design and detail all supports, connections, and inserts. Design calculations and drawings shall be stamped and signed by a professional engineer registered in the State of Utah and submitted to the Engineer for approval. Double tees shall be regular weight concrete.
- Deep excavation and high groundwater will require continual dewatering of the site until all backfill is placed. Building weight plus backfill is required to overcome buoyant forces. The Contractor shall be responsible for any structural damage resulting from his failure to keep the site suitably dewatered at all times.
- No backfilling will be permitted until directed by the Engineer. If site groundwater conditions permit, the Engineer may approve backfilling the structure prior to placement of masonry walls and double tee roofs. Suitable dewatering may allow for partial backfilling, or backfilling in local areas, but only as approved by the Engineer. Site groundwater conditions are seasonal, and may also be affected by other construction activities on the site.
- The grit chambers shall not be backfilled until the 7-1/2" concrete roof slab over the grit chambers has been placed and cured for 7 days. The backfill against the east wall and west wall shall be placed such that the difference in backfill elevations does not exceed 4 feet (up to elevation 47.0).
- All exterior walls below high groundwater level shall be waterproofed with foundation waterproofing as described in the Specifications.
- Masonry notes:
 - Provide dowels at footings to match all vertical reinforcement.
 - Minimum lap 40 bar diameters unless otherwise noted.
 - Provide corner bars for all horizontal reinforcement. Lap 40 bar diameters (2'-0" min).
 - Provide 2-#5 vertical bars full height at all wall corners.
 - Provide 1-#5 all around all openings unless otherwise noted. Extend bars 2'-0" past ends of openings.
 - Provide #2 U-bars in each joint at all wall ends.

5"	for 8" CMU, and	9"	for 12" CMU.
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 - Typical reinforcement:

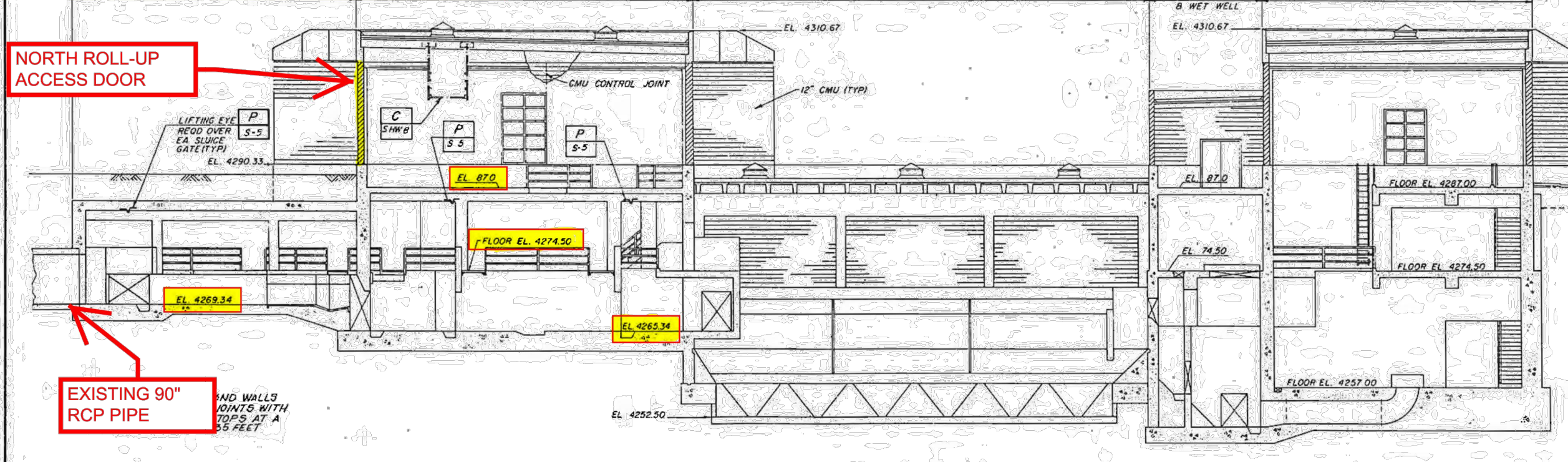
8" CMU	2-#3 @ 40" OC Horizontal	2-#5 @ 24" OC Vertical
12" CMU	2-#4 @ 40" OC Horizontal	1-#5 @ 24" OC Vertical @ Wall C



KNOCK-OUT WALL DETAIL

NORTH ROLL-UP ACCESS DOOR

EXISTING 90" RCP PIPE



SECTION 1
SCALE 1/8" = 1'-0"

RECORD DRAWING
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SCALE: AS NOTED	DESIGNED: [Signature]	SUBMITTED: [Signature]	PROJECT ENGINEER	DATE: 4/8/21	JAMES M. MONTGOMERY CONSULTING ENGINEERS, INC.		SOUTH VALLEY WATER RECLAMATION FACILITY	PROJECT 2A HEADWORKS BUILDING SECTION	SHEET SHW-3 OF 3 SHEETS
DRAWN: [Signature]	CHECKED: [Signature]	RECOMMENDED: [Signature]	PROJECT ENGINEER	DATE: 4/8/21					