CONSTRUCTION PLANS FOR

WASTEWATER TREATMENT PLANT IMPROVEMENTS - BELT FILTER PRESS REPLACEMENT

CITY PROJECT NUMBER 1006783412

LOCATED IN THE

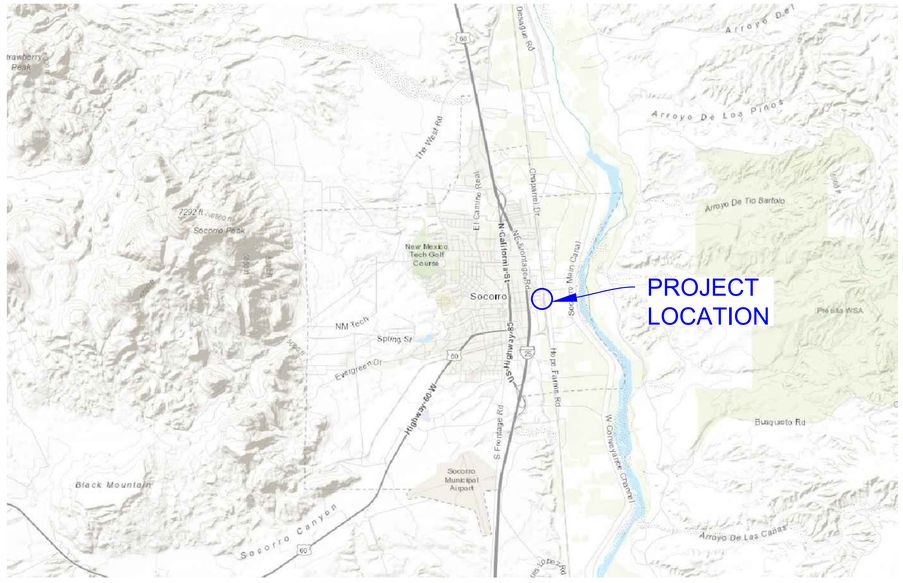
CITY OF SOCORRO,

SOCORRO COUNTY, NEW MEXICO

MAY, 2024

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.



VICINITY MAP

LOCATION MAP

CITY OF SOCORRO APPROVALS:

PUBLIC UTILITIES DEPARTMENT DATE

100% SUBMITTAL

TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3141 Fax (505) 892-3259
Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

COVER SHEET

JOHN WESLEY VOTE
NEW MEXICO
16920
LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: G-001

Plotted: 7/11/2024 2:57:41 PM, By:Matthesen, Corbin
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Last Saved:5/13/2024 2:24:58 PM, cmatthesen

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HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
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Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

INDEX OF SHEETS

JOHN WESLEY VOTE
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SHEET: G-002

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GENERAL NOTES

1. All construction shall be performed in accordance with 1) the project construction plans, 2) the project specifications, 3) the New Mexico Standard Specifications for Public Works Construction and details, as prepared by the New Mexico Chapter, American Public Works Association and addendum. In the case of conflicting specifications, the City of Socorro will determine which specification governs.

2. The Contractor agrees to assume the sole and complete responsibility for the job site conditions during the course of construction of the project, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal working hours, and the Contractor shall defend, indemnify and hold the City and Engineer harmless from any and all liability, real or alleged, in connection with the performance of the work on this project, except for liability arising from the sole negligence of the City or Engineer.

3. No modifications to these plans shall be made without the written consent of the City, Engineer, and all approval signatories. The Engineer shall not be responsible for construction methods or techniques or for the prosecution of the work as shown on these plans. The Engineer shall not be held responsible for the acts or omissions of the Contractor, Subcontractors, or other persons performing any work, as shown in the project Contract Documents.

4. The Contractor shall designate at least one emergency contact person, and shall provide telephone numbers where this person can be contacted at any time. This information shall be provided to the City's Project Manager.

5. The Contractor is responsible for obtaining all necessary permits from all jurisdictional authorities before the start of construction.

6. All work on this project shall be performed in accordance with applicable federal, state, and local laws, rules and regulations concerning construction safety, health, and environmental protection.

7. Existing site improvements which are damaged or displaced by the Contractor shall be removed and replaced by the Contractor at the Contractor's own expense. The work shall be approved by the City before construction of the repairs. Repairs must be accepted by the City before final payment.

8. The Contractor shall only utilize the designated staging areas for storage of all equipment and materials. The City assumes no responsibility or liability for the Contractor's equipment and material in the staging area. Security shall be the sole responsibility of the Contractor. If no staging area is designated on these plans, an offsite staging area shall be provided by the Contractor at the Contractor's expense, or the Contractor may negotiate with the City to use an onsite area.

9. The Contractor shall be responsible for determining, in advance of their construction operations, if overhead utility lines, support structures, poles, guys, etc., are an obstruction to construction operations. If any obstruction is evident, the Contractor shall be responsible for coordinating with the appropriate utility owner to remove or support the utility obstruction. All costs for these requirements are incidental to the Contract.

10. Facilities which are not specifically located with actual vertical and horizontal controls on the construction documents, are shown approximate and in accordance with the best available information provided by various owners of the facilities, and supplemented by visual surface information where appropriate. Accuracy, location, and completeness of this information is the sole responsibility of the Contractor and should be verified, by any means necessary, before the initiation of construction. Should a conflict exist, the Contractor shall notify the City, Engineer, and the City's Project Manager immediately.

11. It is mandatory that a preconstruction meeting be held before commencing construction. The Contractor is responsible for contacting the City's Project Manager to determine the time and location of the preconstruction meeting.

12. At the preconstruction meeting, the Contractor shall submit a detailed construction schedule to the City's Project Manager. The schedule will be updated on a monthly basis and submitted with the monthly invoice.

13. Any work performed without the approval of the City of Socorro and/or all work and materials not in conformance with the specifications is subject to removal and replacement at the Contractor's expense.

14. The Contractor shall contact NM 811 at 1-800-321-2537 for utility spots in accordance with applicable state law.

15. The Contractor shall confine their work to within the construction limits and/or public right-of-way to preserve existing vegetation, landscaping, and private property. Approval of these plans does not give or imply any permission to trespass or work on private property. Permission must be granted in writing by the Owner of that property.

16. It is the sole responsibility of the Contractor to keep the job site free from trash on a daily basis, and all materials will be neatly organized. Trash and/or non-used materials shall not be buried onsite.

17. The Contractor shall park equipment and vehicles so as not to interfere with normal activities of residents, other Contractors, or Emergency Services.

18. The Contractor will provide construction staking utilizing approved construction plans. Each revision to the plans shall be recorded in the plan revision block. Plans shall include a location map with legal description(s) and location grid.

19. The Contractor shall maintain an up-to-date and accurate set of Working Record Drawings, redlined drawings.

WASTEWATER GENERAL NOTES

1. Sewer/Water lines shall be placed in separate trenches at a distance of 15 feet typically or a minimum of 10 feet apart horizontally. The water line shall be placed a minimum of 1.5 feet higher in elevation than the sewer line. At all crossings of water and sewer lines, the water line shall be a minimum of 1.5 feet higher than the sewer line or the sewer line shall be C-900 pressurized pipe.
2. It will be the Contractor's sole responsibility to protect and maintain in service all existing utilities. The Contractor shall adequately support and protect existing utilities affected by the Contractor's trenching activity. In the event that existing utilities are damaged by the Contractor's operations, the Contractor shall arrange for and coordinate with the Project Manager, prompt repair by the respective utility and shall bear the cost of the repairs.
3. The City of Socorro shall approve material submittals before construction
4. Prior to the sewer line installation, the following conditions will occur:
   a) The sewer line route will be cleared and grubbed and then graded to plan elevation
   b) The sewer line will be staked when outside an area with curb and gutter
5. Tracer wire shall be installed if required by the City's Project Manager.
6. The City of Socorro Public Utilities Department shall be the only personnel authorized to operate existing valves, etc. for construction purposes. All shutoffs must be coordinated with the City's Project Manager seven (7) days before to proposed shutoff and shall comply with the accepted shutoff plan.
7. 30 days following installation and backfill of sewer lines, a deflection test using a hand pulled mandrel shall be performed in the presence of the City's Inspector. All costs for these requirements are incidental to the Contract.
8. Air testing of sewer lines and hydrostatic testing of force mains shall be conducted in the presence of the City's Inspector. All costs for these requirements are incidental to the Contract.
9. The Contractor is responsible for testing of all force main lines, including but not limited to hydrostatic and bacteria testing, disinfecting, and flushing. All costs for these requirements are incidental to the Contract.
10. If bypass pumping is required, then a bypass pumping plan must be submitted to the City's Project Manager, for acceptance, seven (7) days before bypass pumping begins.

ABBREVIATIONS

AP	ANALYSIS POINT
@	AT
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BK	BOOK
BLDG	BUILDING
BM	BENCH MARK
BOP	BEGINNING OF PROJECT
BOT ELEV	BOTTOM OF PIPE ELEVATION
PVC	BEGIN VERTICAL CURVE
BW	BASE OF WALL
CATV	CABLE TV LINE
CB	CATCH BASIN
CF	CURB FACE
CG	CURB AND GUTTER
CIP	CAST IRON PIPE
℄ CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COA	CITY OF ALBUQUERQUE
CONC	CONCRETE
CORR	CITY OF Socorro
CY	CUBIC YARDS
DE, DUE	DRAINAGE UTILITY EASEMENT
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
Δ	DELTA
E	ELECTRIC
EA	EACH
EB	ELECTRIC BOX
EC	END CURVE
ECR	END CURB RETURN
EL, ELEV	ELEVATION
EMH	EXISTING MANHOLE
EOP	END OF PROJECT
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVC	END VERTICAL CURVE
EW	EACH WAY
EX, EXIST	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
℉	FLOW LINE
FM	FORCE MAIN
FOC	FACE OF CURB
FP	FINISHED PAD
G	GAS
GM	GAS METER
GV	GATE VALVE
HORIZ	HORIZONTAL
H.P.	HIGH POINT
INT	INTERSECTION
INV	INVERT
INV EL	INVERT ELEVATION
LF	LINEAR FEET
LP	LIGHT POLE
L.P. (PROFILE)	LOW POINT
LT	LEFT
MH	MANHOLE
NG	NATURAL GROUND
OC	ON CENTER
PB	PULL BOX
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PVT	POINT OF VERTICAL TANGENCY
PG	PAGE
PGL	PROFILE GRADE LINE PER TYPICAL SECTION
PI	POINT OF INTERSECTION
ℙ	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
R, RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REF	REFERENCE
RT	RIGHT
R/W, ROW	RIGHT-OF-WAY
S	SLOPE
SAS	SANITARY SEWER LINE
SD	STORM DRAIN
SF	SQUARE FEET
STA	STATION
STD	STANDARD
SW	SIDEWALK
SY	SQUARE YARDS
T	TANGENT
TA	TOP OF ASPHALT
TAC	TOP OF ASPHALT CURB
TBC	TOP BACK OF CURB
TC	TOP OF CONCRETE
TEL	TELEPHONE LINE, RISER OR BOX
TP ELEV	TOP OF PIPE ELEVATION
T/RR	TOP OF RIP RAP
TRANS	TRANSVERSE
TW	TOP OF WALL
TYP	TYPICAL
UE	UNDERGROUND ELECTRICAL LINE
UT	UNDERGROUND TELEPHONE LINE
VC	VERTICAL CURVE
VERT	VERTICAL
VPI	VERTICAL POINT OF INTERSECTION
W, WL	WATERLINE
WM	WATER METER
WSEL	WATER SURFACE ELEVATION
WV	WATER VALVE

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333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3141 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

GENERAL NOTES AND ABBREVIATIONS

JOHN WESLEY VOTE
NEW MEXICO
16920
LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

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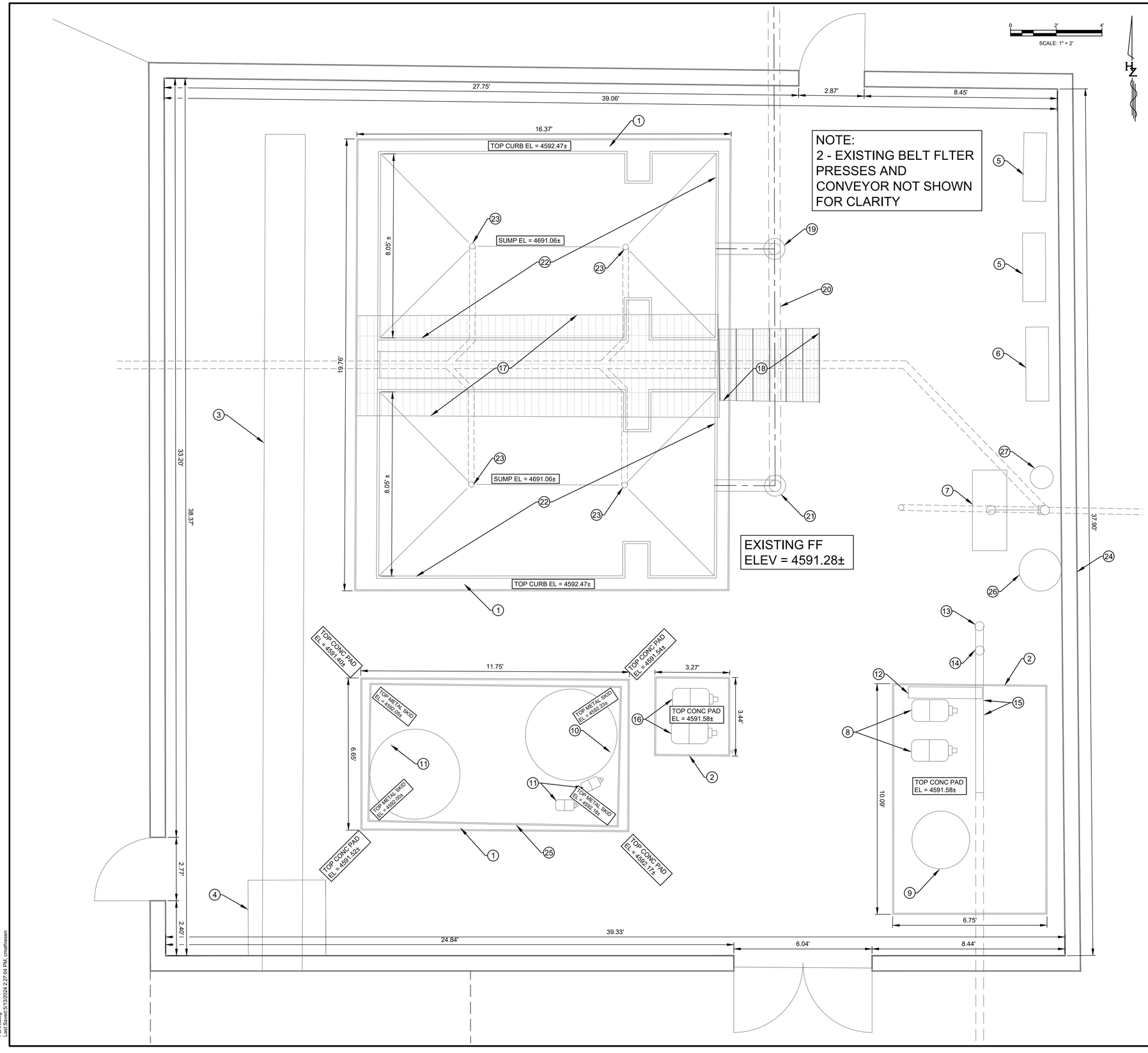
Last Saved:5/10/2024 11:26:46 AM, cmathiesen



GENERAL NOTES

1. THE LOCATION OF EXISTING FACILITIES ARE BASED ON RECORD DRAWINGS, ABOVE GROUND FEATURES, SURVEY INFORMATION AND DESCRIPTIONS PROVIDED BY THE CITY OF SOCORRO, PUBLIC AND PRIVATE UTILITIES.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK. DAMAGE TO EXISTING UTILITIES CAUSED BY CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL NOT ENCROACH ON PRIVATE PROPERTY WITHOUT EXPRESS WRITTEN PERMISSION FROM AFFECTED LANDOWNER. ANY DAMAGE TO PRIVATE PROPERTY CAUSED BY CONTRACTOR'S ACTIONS SHALL BE REPAIRED TO EXISTING OR BETTER CONDITION AT CONTRACTOR'S EXPENSE.

(#) KEYED NOTES

1 EXISTING CONCRETE PAD WITH CURB
2 EXISTING CONCRETE PAD
3 EXISTING CONVEYOR BELT
4 EXISTING CONVEYOR BELT SCAFFOLDING
5 EXISTING AIR COMPRESSOR
6 EXISTING ELECTRICAL SWITCH PANEL
7 EXISTING SINK
8 EXISTING PLANT WASH WATER PUMPS
9 EXISTING PRESSURE TANK
10 EXISTING POLYMER TANK
11 EXISTING POLYMER DELIVERY PUMPS
12 EXISTING ELECTRICAL PANEL
13 EXISTING 4" SUCTION LINE PIPE W/FLANGE 2.5' AGL
14 EXISTING 4" WASH WATER PIPE W/FLANGE 0.7' AGL
15 EXISTING 4" WASH WATER AND SUCTION PIPES OVER EACH OTHER
16 EXISTING SLUDGE PRESS PUMPS
17 EXISTING OVERHEAD GRATED WALKWAY
18 EXISTING STAIRS
19 EXISTING 6" SLUDGE PIPE W/FLANGE .55' AGL
20 EXISTING 6" SLUDGE PIPE
21 EXISTING 6" SLUDGE PIPE W/FLANGE .55' AGL
22 EXISTING SUMP
23 EXISTING 6" FLOOR DRAIN
24 EXISTING METAL BUILDING
25 EXISTING METAL RISER PLATFORM
26 EXISTING HOT WATER HEATER
27 EXISTING EMERGENCY EYE WASH STATION

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CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

EXISTING CONDITIONS - FLOOR PLAN

JOHN WESLEY VOTE NEW MEXICO 16920 LICENSED PROFESSIONAL ENGINEER

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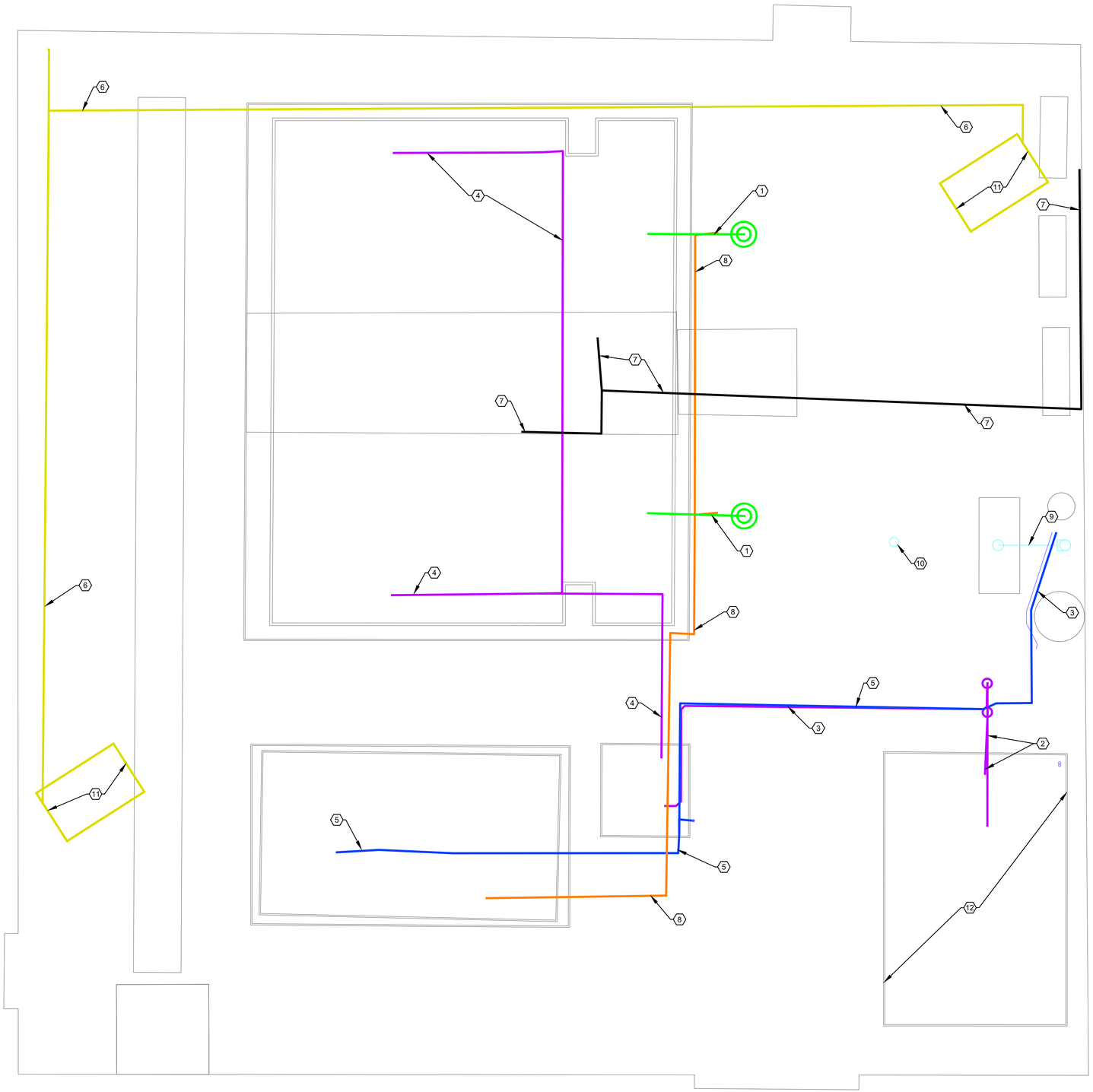

SCALE: 1" = 2'

GENERAL NOTES

1. ALL PIPING TO BE REPLACED, INCLUDING FITTINGS PER PIPE TABLE THIS SHEET.
2. ALL PIPING TO BE REMOVED TO THE CLOSEST FLANGE ABOVE FINISH FLOOR WITH THE EXCEPTION OF THE 3" FLOOR DRAIN.
3. NO PIPING TO BE REMOVED BELOW FINISH FLOOR.
4. PIPING TO BE PAINTED BY USE PER PIPING TABLE ON SHEET C-107

(#) EXISTING PIPING DEMOLITION NOTES

1. EXISTING 6" DIP SLUDGE LINE TO BE REMOVED AND REPLACED
2. EXISTING 4" PVC REUSE PLANT WASH WATER LINE TO BE REMOVED AND REPLACED
3. EXISTING 2" PVC REUSE PLANT WASH WATER LINE TO BE REMOVED AND REPLACED
4. EXISTING 2" PVC REUSE SLUDGE PRESS WATER LINE TO BE REMOVED AND REPLACED
5. EXISTING 1" PVC POTABLE WATER LINE TO BE REMOVED AND REPLACED
6. EXISTING 3/4" BLACK STEEL GAS LINE TO BE REMOVED AND REPLACED
7. EXISTING 1" STEEL AIR LINE TO BE REMOVED AND REPLACED
8. EXISTING 1" PVC POLYMER FEED LINE TO BE REMOVED AND REPLACED
9. EXISTING 3" PVC DRAIN LINE TO BE REMOVED AND REPLACED
10. EXISTING 3" FLOOR DRAIN AND GRATE TO REMOVED AND REPLACED WITH 6" TRENCH DRAIN
11. EXISTING GAS HEATER TO BE REMOVED AND REINSTALLED, INCLUDING CONTROLS AND VENTS
12. REMOVE AND REPLACE EXISTING PLANT WASH WATER PUMP SKID ASSEMBLY

NOTE:

FOR PIPING DEMOLITION TABLE - SEE SHEET G-006

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Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
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EXISTING PIPING
DEMOLITION PLAN VIEW

JOHN WESLEY VOTE NEW MEXICO 16920 LICENSED PROFESSIONAL ENGINEER

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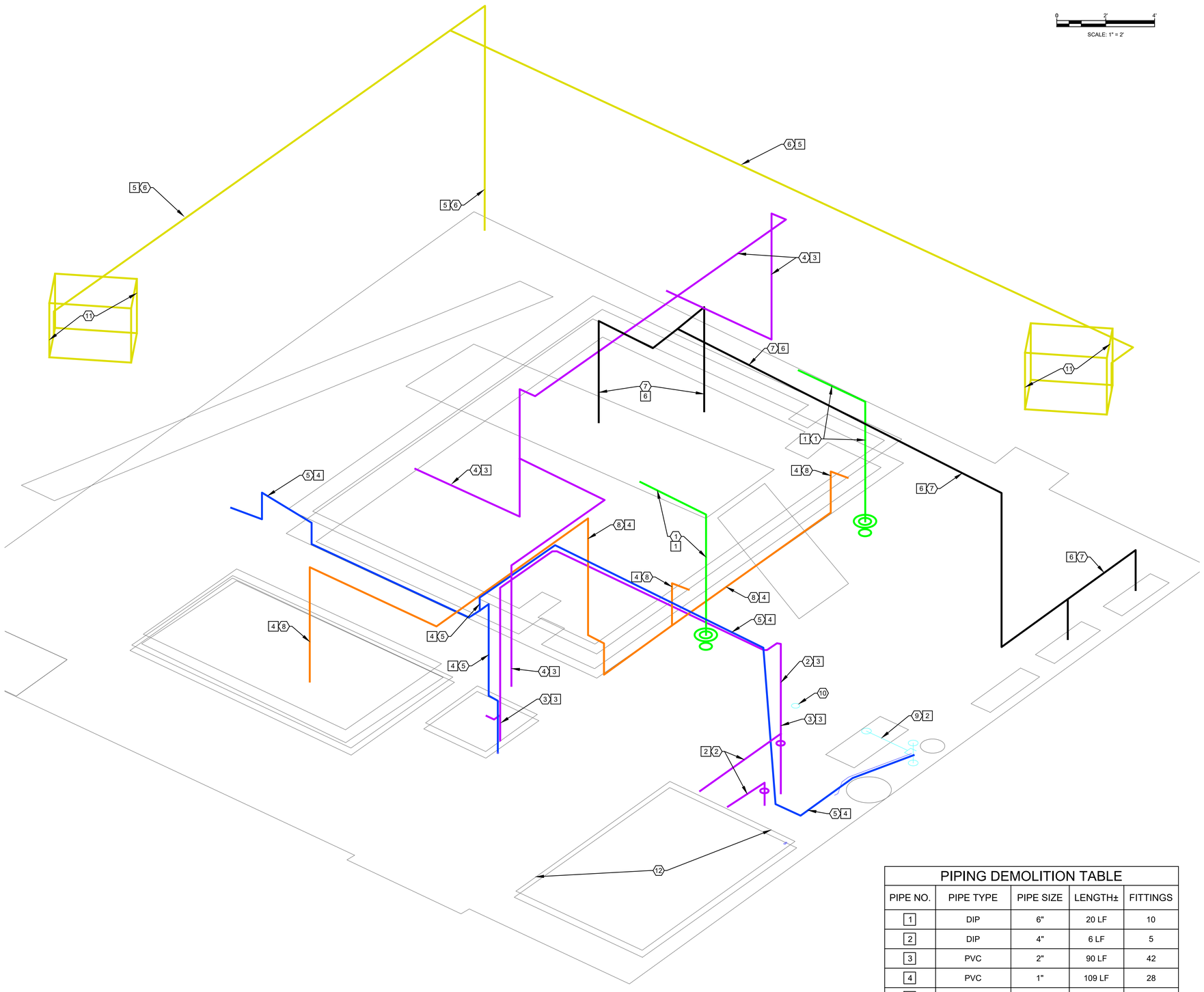

GENERAL NOTES

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2. ALL PIPING TO BE REMOVED TO THE CLOSEST FLANGE ABOVE FINISH FLOOR WITH THE EXCEPTION OF THE 3" FLOOR DRAIN.
3. NO PIPING TO BE REMOVED BELOW FINISH FLOOR.
4. PIPING TO BE PAINTED BY USE PER PIPING TABLE ON SHEET C-107

EXISTING PIPING DEMOLITION NOTES

1. EXISTING 6" DIP SLUDGE LINE TO BE REMOVED AND REPLACED
2. EXISTING 4" PVC REUSE PLANT WASH WATER LINE TO BE REMOVED AND REPLACED
3. EXISTING 2" PVC REUSE PLANT WASH WATER LINE TO BE REMOVED AND REPLACED
4. EXISTING 2" PVC REUSE SLUDGE PRESS WATER LINE TO BE REMOVED AND REPLACED
5. EXISTING 1" PVC POTABLE WATER LINE TO BE REMOVED AND REPLACED
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9. EXISTING 3" PVC DRAIN LINE TO BE REMOVED AND REPLACED
10. EXISTING 3" FLOOR DRAIN AND GRATE TO REMOVED AND REPLACED WITH 6" TRENCH DRAIN
11. EXISTING GAS HEATER TO BE REMOVED AND REINSTALLED, INCLUDING CONTROLS AND VENTS
12. REMOVE AND REPLACE EXISTING PLANT WASH WATER PUMP SKID ASSEMBLY

PIPING DEMOLITION TABLE

PIPE NO.	PIPE TYPE	PIPE SIZE	LENGTH±	FITTINGS
1	DIP	6"	20 LF	10
2	DIP	4"	6 LF	5
3	PVC	2"	90 LF	42
4	PVC	1"	109 LF	28
5	STEEL	3/4"	81 LF	10
6	STEEL	1"	58 LF	12

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EXISTING PIPING
DEMOLITION SCHEMATIC -
LOOKING NORTHWEST

JOHN WESLEY VOTE
NEW MEXICO
16920
LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: G-006

Plotted: 7/11/2024 2:58:40 PM, By:Mathiesen, Corbin
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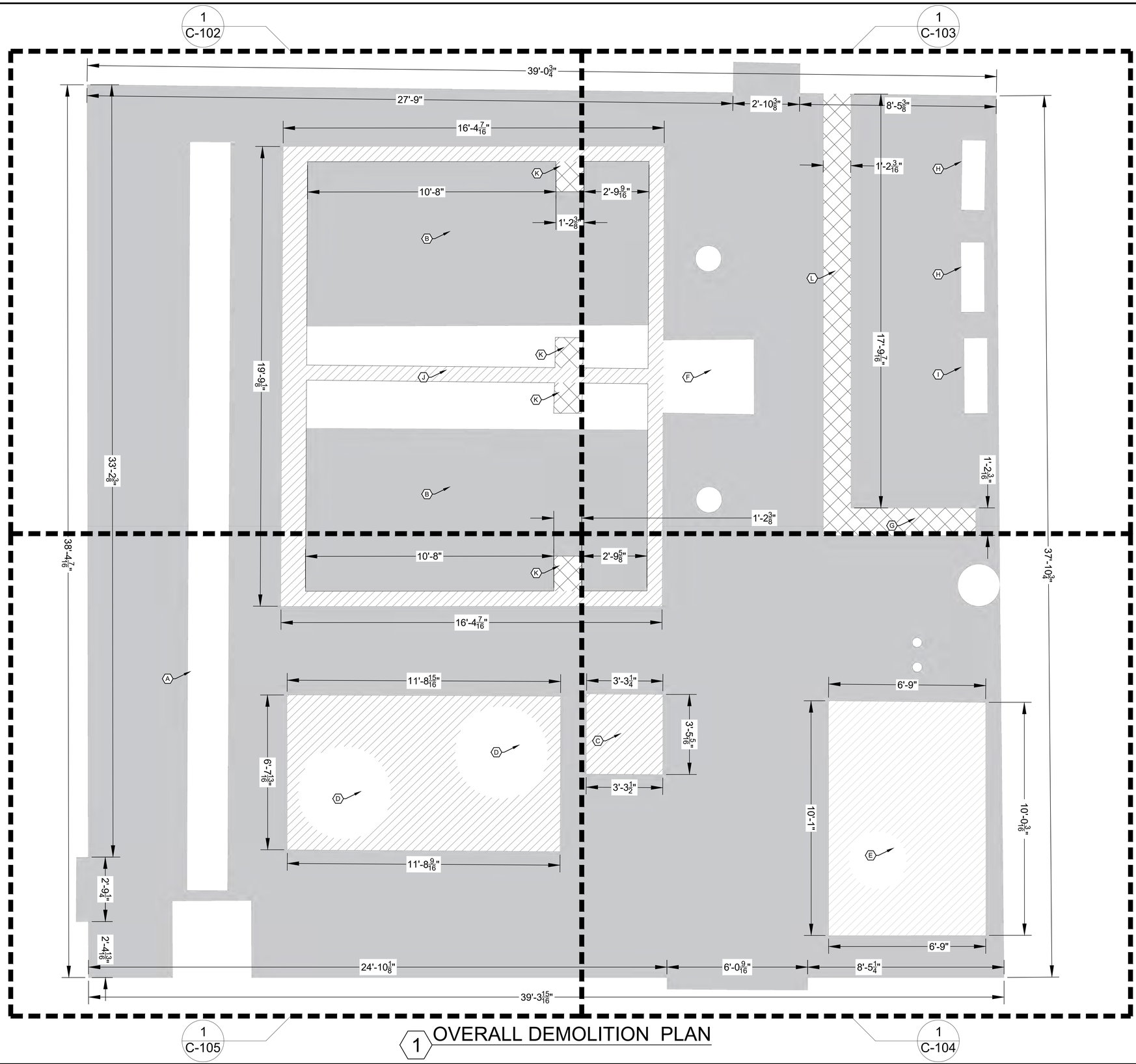

1 OVERALL DEMOLITION PLAN

1 C-105 | 1 C-104

GENERAL NOTES

1. DEMOLITION REQUIREMENTS ARE BASED FROM AVAILABLE RECORD DRAWINGS AND FIELD VISITS. CONTRACTOR SHALL ENSURE ALL NEW COMPONENTS ARE INSTALLED FOR A COMPLETE OPERATING.....

(#) DEMOLITION KEYED NOTES

A EXISTING CONVEYOR BELT TO BE REMOVED AND DISPOSED

B EXISTING BELT FILTER PRESS TO BE REMOVED AND DISPOSED

C EXISTING SLUDGE PRESS WASH PUMP TO BE REMOVED AND DISPOSED

D EXISTING POLYMER TANK TO BE REMOVED AND DISPOSED

E EXISTING SKID MOUNTED PLAT WASH WATER SYSTEM TO BE REMOVED, AND PUMPS, CONTROLS, PRESSURE TANK AND PIPING

F EXISTING STAIRS TO BE REMOVED AND DISPOSED.

G EXISTING SINK TO BE REMOVED AND DISPOSED.

H EXISTING TANK TO BE REMOVED AND DISPOSED.

I EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND DISPOSED.

J EXISTING METAL PLATFORM TO BE REMOVED AND DISPOSED.

K REMOVE EXISTING CONCRETE PIERS - SEE SHEET S-102.

L REMOVE A PORTION OF EXISTING CONCRETE SLAB FOR NEW FLOOR TRENCH DRAIN - SEE SHEET S-101.

LEGEND

EXISTING CONCRETE TO REMAIN.

EXISTING CONCRETE SLAB TO REMAIN.

EXISTING CONCRETE TO BE REMOVED.

0 2' 4'
SCALE: 1" = 2'

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

nm811 Know what's below. Call before you dig. TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3141 Fax (505) 892-3259
Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

OVERALL DEMOLITION PLAN

JOHN WESLEY VOTE NEW MEXICO 16920 LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-101

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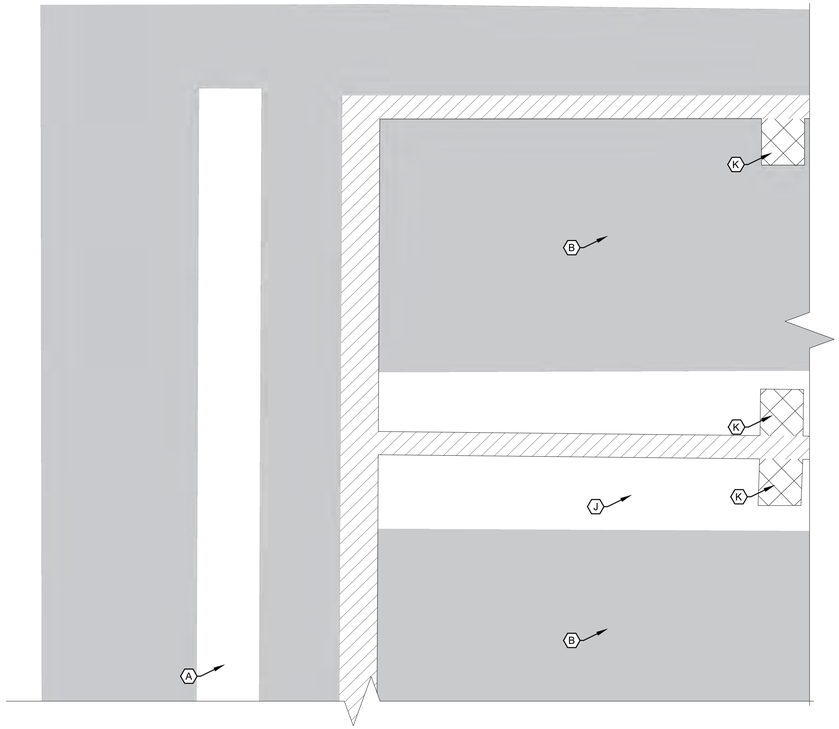

(LOOKING EAST)

1 ENLARGED DEMO PLAN 1

(LOOKING SOUTH)

(LOOKING SOUTHEAST)

GENERAL NOTES

1. DEMOLITION REQUIREMENTS ARE BASED FROM AVAILABLE RECORD DRAWINGS AND FIELD VISITS. CONTRACTOR SHALL ENSURE ALL NEW COMPONENTS ARE INSTALLED FOR A COMPLETE OPERATING.....

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A EXISTING CONVEYOR BELT TO BE REMOVED AND DISPOSED

B EXISTING BELT FILTER PRESS TO BE REMOVED AND DISPOSED

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D EXISTING POLYMER TANK TO BE REMOVED AND DISPOSED

E EXISTING WASH WATER BOOSTER PUMP TO BE REMOVED AND DISPOSED

F EXISTING STAIRS TO BE REMOVED AND DISPOSED.

G EXISTING SINK TO BE REMOVED AND DISPOSED.

H EXISTING TANK TO BE REMOVED AND DISPOSED.

I EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND DISPOSED.

J EXISTING METAL PLATFORM TO BE REMOVED AND DISPOSED.

K REMOVE EXISTING CONCRETE PIERS.

L REMOVE A PORTION OF EXISTING CONCRETE SLAB FOR NEW FLOOR TRENCH DRAIN.

LEGEND

EXISTING CONCRETE TO REMAIN.

EXISTING CONCRETE SLAB TO REMAIN.

EXISTING CONCRETE TO BE REMOVED.

0 2' 4'

SCALE: 1" = 2'

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REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3444 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ENLARGED DEMOLITION PLAN 1

JOHN WESLEY VOTE NEW MEXICO 16920 LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-102

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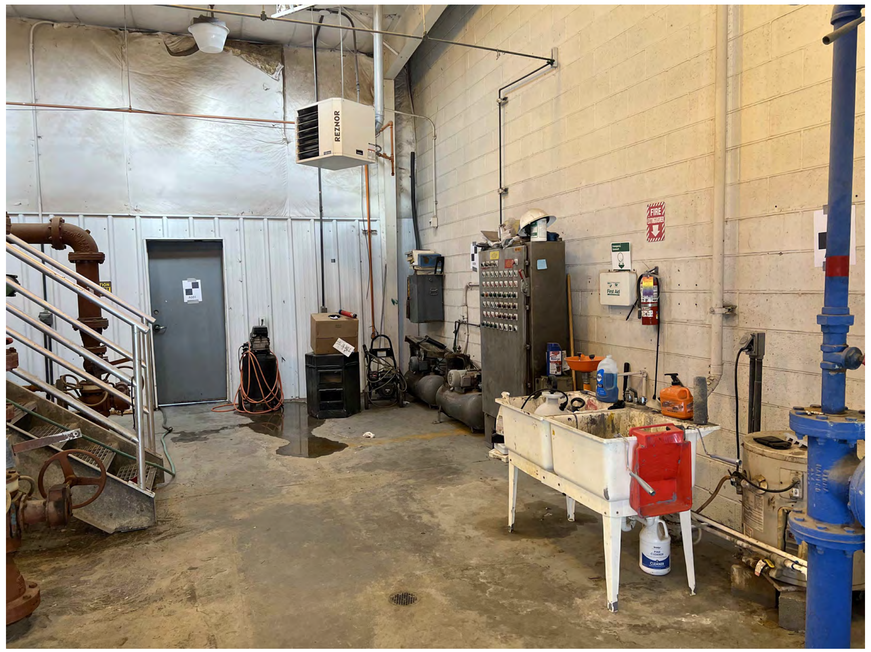
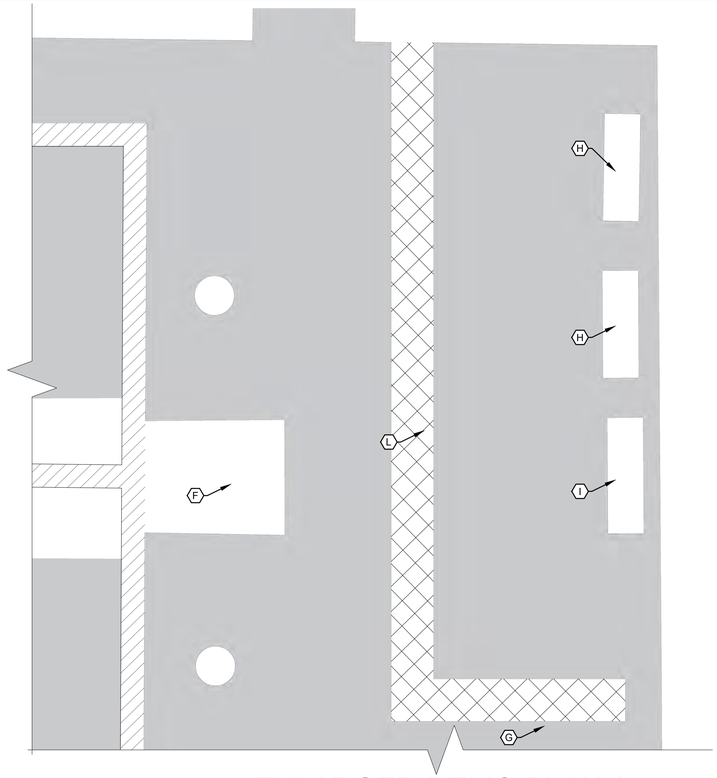
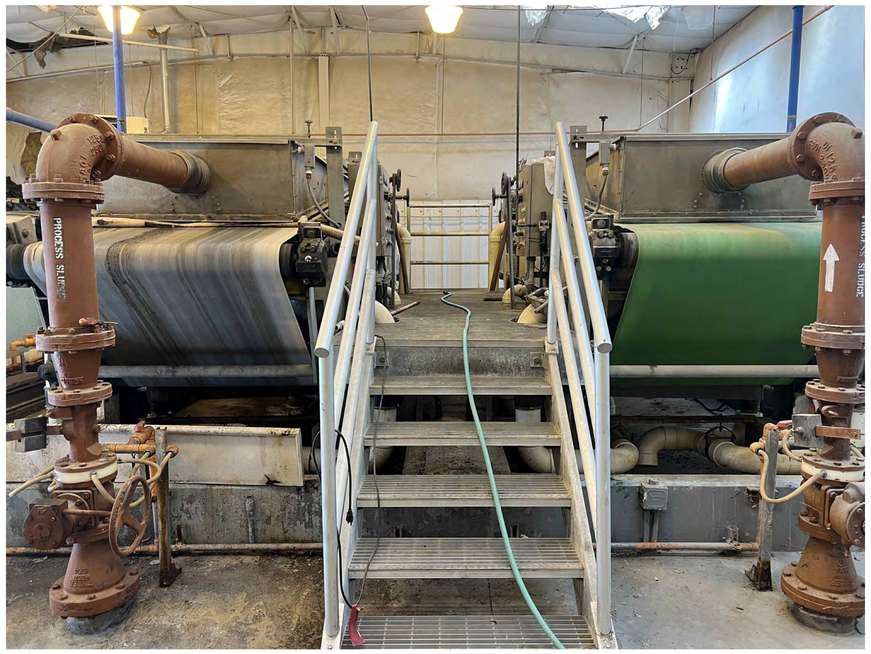


(LOOKING NORTHEAST)



1 ENLARGED DEMO PLAN 2



(LOOKING WEST)

(LOOKING SOUTHWEST)

GENERAL NOTES

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A EXISTING CONVEYOR BELT TO BE REMOVED AND DISPOSED

B EXISTING BELT FILTER PRESS TO BE REMOVED AND DISPOSED

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D EXISTING POLYMER TANK TO BE REMOVED AND DISPOSED

E EXISTING WASH WATER BOOSTER PUMP TO BE REMOVED AND DISPOSED

F EXISTING STAIRS TO BE REMOVED AND DISPOSED.

G EXISTING SINK TO BE REMOVED AND DISPOSED.

H EXISTING TANK TO BE REMOVED AND DISPOSED.

I EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND DISPOSED.

J EXISTING METAL PLATFORM TO BE REMOVED AND DISPOSED.

K REMOVE EXISTING CONCRETE PIERS.

L REMOVE A PORTION OF EXISTING CONCRETE SLAB FOR NEW FLOOR TRENCH DRAIN.

LEGEND

EXISTING CONCRETE TO REMAIN.

EXISTING CONCRETE SLAB TO REMAIN.

EXISTING CONCRETE TO BE REMOVED.

0 2' 4'
SCALE: 1" = 2'

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REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3441 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ENLARGED DEMOLITION PLAN 2

JOHN WESLEY VOTE
NEW MEXICO
16920
LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-103

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Last Saved:7/11/2024 2:48:49 PM, cmathiesen

(LOOKING WEST)

(LOOKING SOUTHEAST)

(LOOKING EAST)

1 ENLARGED DEMO PLAN 3

GENERAL NOTES

1. DEMOLITION REQUIREMENTS ARE BASED FROM AVAILABLE RECORD DRAWINGS AND FIELD VISITS. CONTRACTOR SHALL ENSURE ALL NEW COMPONENTS ARE INSTALLED FOR A COMPLETE OPERATING.....

(#) DEMOLITION KEYED NOTES

A EXISTING CONVEYOR BELT TO BE REMOVED AND DISPOSED

B EXISTING BELT FILTER PRESS TO BE REMOVED AND DISPOSED

C EXISTING SLUDGE PRESS WASH PUMP TO BE REMOVED AND DISPOSED

D EXISTING POLYMER TANK TO BE REMOVED AND DISPOSED

E EXISTING WASH WATER BOOSTER PUMP TO BE REMOVED AND DISPOSED

F EXISTING STAIRS TO BE REMOVED AND DISPOSED.

G EXISTING SINK TO BE REMOVED AND DISPOSED.

H EXISTING TANK TO BE REMOVED AND DISPOSED.

I EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND DISPOSED.

J EXISTING METAL PLATFORM TO BE REMOVED AND DISPOSED.

K REMOVE EXISTING CONCRETE PIERS.

L REMOVE A PORTION OF EXISTING CONCRETE SLAB FOR NEW FLOOR TRENCH DRAIN.

M EXISTING SLUDGE PRESS, WASH WATER PUMP AND SKID TO BE REMOVED AND DISPOSED AND REPLACED.

LEGEND

EXISTING CONCRETE TO REMAIN.

EXISTING CONCRETE SLAB TO REMAIN.

EXISTING CONCRETE TO BE REMOVED.

0 2' 4'
SCALE: 1" = 2'

Notice of Extended Payment Provision

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REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3441 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ENLARGED DEMOLITION PLAN 3

JOHN WESLEY VOTE NEW MEXICO 16920 LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-104

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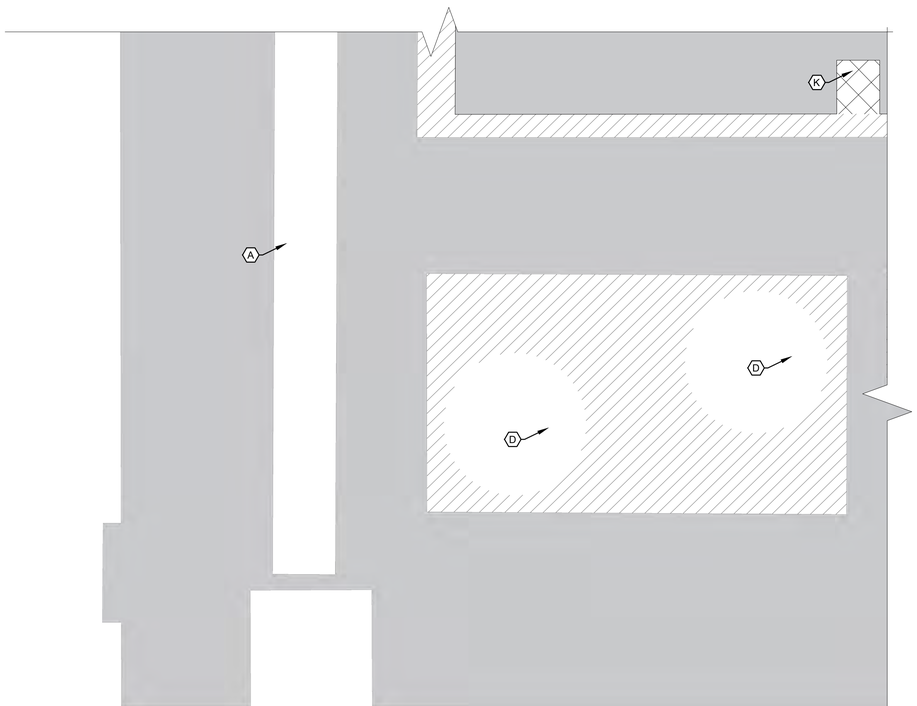
Last Saved:7/11/2024 2:48:49 PM, cmathiesen

(LOOKING WEST)

(LOOKING WEST)



1 ENLARGED DEMO PLAN 4

(LOOKING SOUTHWEST)

GENERAL NOTES

1. DEMOLITION REQUIREMENTS ARE BASED FROM AVAILABLE RECORD DRAWINGS AND FIELD VISITS. CONTRACTOR SHALL ENSURE ALL NEW COMPONENTS ARE INSTALLED FOR A COMPLETE OPERATING.....

(#) DEMOLITION KEYED NOTES

A EXISTING CONVEYOR BELT TO BE REMOVED AND DISPOSED

B EXISTING BELT FILTER PRESS TO BE REMOVED AND DISPOSED

C EXISTING SLUDGE PRESS WASH PUMP TO BE REMOVED AND DISPOSED

D EXISTING POLYMER TANK TO BE REMOVED AND DISPOSED

E EXISTING WASH WATER BOOSTER PUMP TO BE REMOVED AND DISPOSED

F EXISTING STAIRS TO BE REMOVED AND DISPOSED.

G EXISTING SINK TO BE REMOVED AND DISPOSED.

H EXISTING TANK TO BE REMOVED AND DISPOSED.

I EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND DISPOSED.

J EXISTING METAL PLATFORM TO BE REMOVED AND DISPOSED.

K REMOVE EXISTING CONCRETE PIERS.

L REMOVE A PORTION OF EXISTING CONCRETE SLAB FOR NEW FLOOR TRENCH DRAIN.

LEGEND

EXISTING CONCRETE TO REMAIN.

EXISTING CONCRETE SLAB TO REMAIN.

EXISTING CONCRETE TO BE REMOVED.

0 2' 4'
SCALE: 1" = 2'

Notice of Extended Payment Provision

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CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3441 Fax (505) 892-3259
Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ENLARGED DEMOLITION PLAN 4

JOHN WESLEY VOTE NEW MEXICO 16920 LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-105

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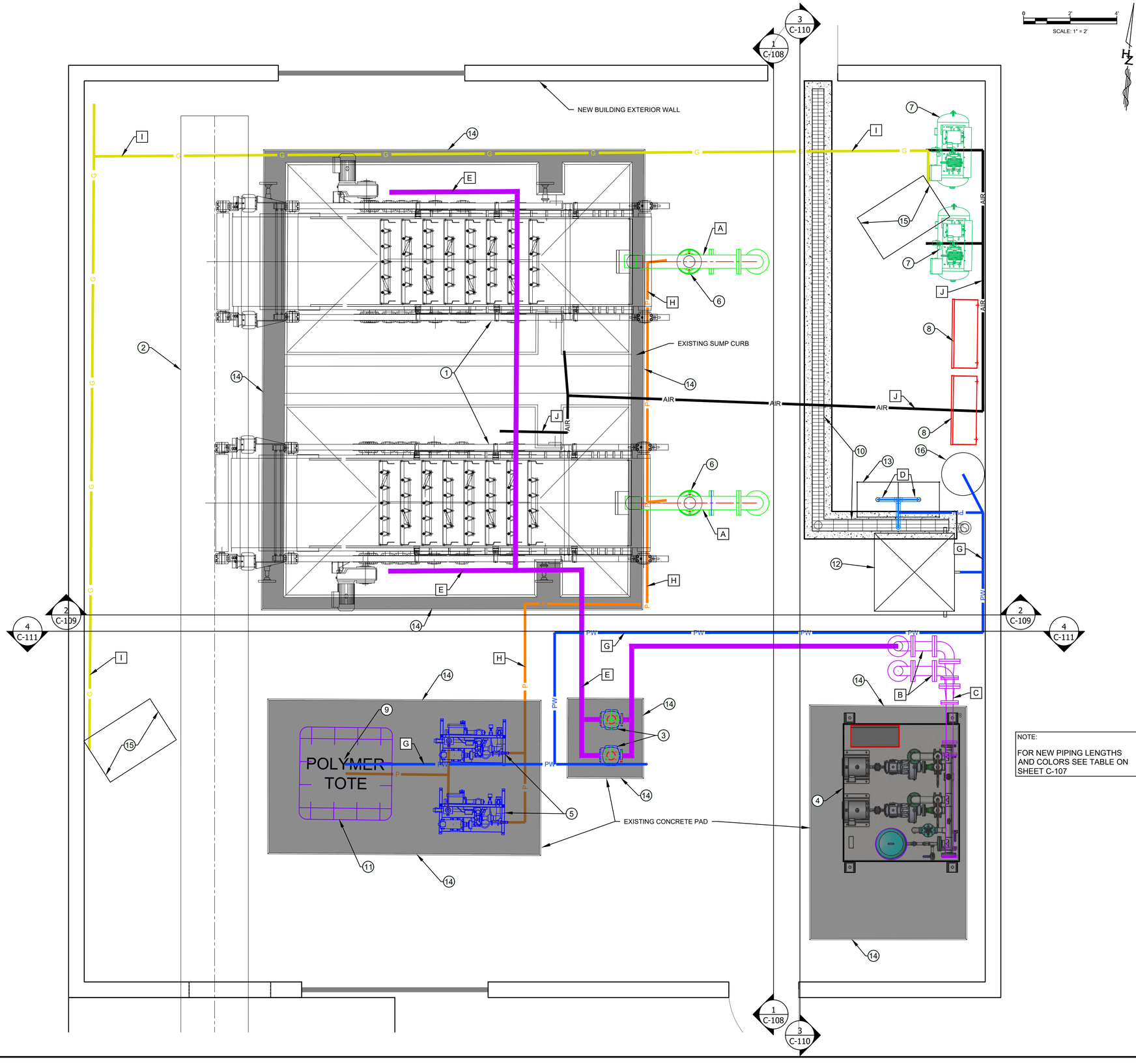

GENERAL NOTES

1. THE LOCATION OF EXISTING FACILITIES ARE BASED ON RECORD DRAWINGS, ABOVE GROUND FEATURES, SURVEY INFORMATION AND DESCRIPTIONS PROVIDED BY THE CITY OF SOCORRO, PUBLIC AND PRIVATE UTILITIES.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK. DAMAGE TO EXISTING UTILITIES CAUSED BY CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

(#) CONSTRUCTION KEYED NOTES (EXCLUDING PIPING)

1. INSTALL - 2 NEW PHOENIX TYPE WX-1.2H8W BELT FILTER PRESSES (SEE DETAIL ON SHEET C-501)
2. INSTALL 1 - NEW PHOENIX CAKE DISCHARGE CONVEYOR ASSEMBLY (SEE DETAIL ON SHEET C-502)
3. INSTALL 2 - NEW GRUNFOS SLUDGE PRESS WATER BOOSTER PUMPS, TYPE CR 10-8 A-GJ-A-E-HQQE #99917197 (SEE DETAIL 1 ON SHEET C-504)
4. INSTALL 1 - NEW PUMPTECH DUPLEX SKID G.A. ASSEMBLY - (SEE DETAIL 1 ON SHEET C-503)
5. INSTALL 2 - NEW DESMI EMULSION POLYMER DELIVERY SYSTEMS, TYPE HD, CD, PD 26-201 W / MOTORS 1@ 200 RPM (SEE DETAIL 2 ON SHEET C-504)
6. INSTALL 2 - NEW 4" INLINE VORTEX MIXER (SS) AS - [BY OTHERS]
7. INSTALL 2 - NEW CAS AIR COMPRESSORS, TYPE B23H31(8 CFM @ 125 psi) (SEE DETAIL 3 ON SHEET C-503)
8. INSTALL 2 - NEW PLC BASED NEMA 4X MASTER ELECTRICAL CONTROL PANELS
9. INSTALL 1 - NEW NEPTUNE GEAR DRIVE MIXER, TYPE JG-6.1 1 ¾ HP-3-230/460 (SEE DETAIL 1 ON SHEET C-505)
10. BUILD 6" GRATED TRENCH FLOOR DRAIN (SEE DETAIL 1 ON SHEET C-507)
11. INSTALL 1 - NEW POLYMER TOTE CONTAINER
12. INSTALL 1 - NEW EMERGENCY WASH / EYE WASH SHOWER (SEE DETAIL ON SHEET (SEE DETAIL 3 ON SHEET C-505)
13. INSTALL 1 - NEW FREE STANDING DOUBLE SINK (SEE DETAIL 2 ON SHEET C-505)
14. RE-PAINT ALL EXISTING CURB AND CONCRETE PAD VERTICAL RISERS WITH SAFETY YELLOW ENAMEL PAINT
15. REINSTALL EXISTING 1 - NATURAL GAS SUSPENDED HEATER WITH CONTROLS AND VENTS
16. INSTALL 1 - NEW 20 GALLON HOT WATER HEATER

NOTE:

FOR NEW PIPING LENGTHS AND COLORS SEE TABLE ON SHEET C-107

[#] CONSTRUCTION PIPING KEYED NOTES

- A INSTALL - NEW 6" / 4" DIP SLUDGE LINE
- B INSTALL - NEW 4" DIP REUSE PLANT WASH WATER LINE
- C INSTALL - NEW 3" DIP REUSE PLANT WASH WATER LINE
- D INSTALL - NEW 2" PVC DRAIN LINE
- E INSTALL - NEW 2" PVC REUSE SLUDGE PRESS WATER LINE
- F INSTALL - NEW 2" PVC REUSE PLANT WASH WATER LINE
- G INSTALL - NEW 1" PVC POTABLE WATER LINE
- H INSTALL - NEW 1" PVC POLYMER LINE
- I INSTALL - NEW 3/4" BLACK STEEL NATURAL GAS LINE
- J INSTALL - NEW 1" STEEL AIR LINE

Notice of Extended Payment Provision

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Rio Rancho, New Mexico 87174
Phone (505) 892-3141 Fax (505) 892-3259
Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

BUILDING FLOOR IMPROVEMENTS PLAN

JOHN WESLEY VOTE NEW MEXICO 16920 LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

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DRAWN BY:	CCM / LAB
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DPW CHK:	

SHEET: C-106

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Last Saved:7/11/2024 2:55:11 PM, cmatheson

CONSTRUCTION KEYED NOTES (EXCLUDING PIPING)

A. INSTALL 1 - NEW PHOENIX CAKE DISCHARGE CONVEYOR ASSEMBLY

B. INSTALL 2 - NEW GRUNFOS SLUDGE PRESS WATER BOOSTER PUMPS

C. INSTALL 1 - NEW PUMPTECH DUPLEX SKID G.A. ASSEMBLY

D. INSTALL 2 - NEW NEW DESMI EMULSION POLYMER DELIVERY SYSTEMS

E. INSTALL 2 - NEW 4" INLINE VORTEX MIXER (SS) ASSEMBLY W / MIXER RINGS

F. INSTALL 2 - NEW CAS AIR COMPRESSORS

G. INSTALL 2 - NEW MASTER ELECTRICAL CONTROL PANELS

H. INSTALL 1 - NEW NEPTUNE GEAR DRIVE MIXER

I. BUILD 6" GRATED TRENCH FLOOR DRAIN

J. INSTALL 1 - NEW POLYMER TOTE CONTAINER

K. INSTALL 1 - NEW EMERGENCY WASH SHOWER / EYE WASH STATION

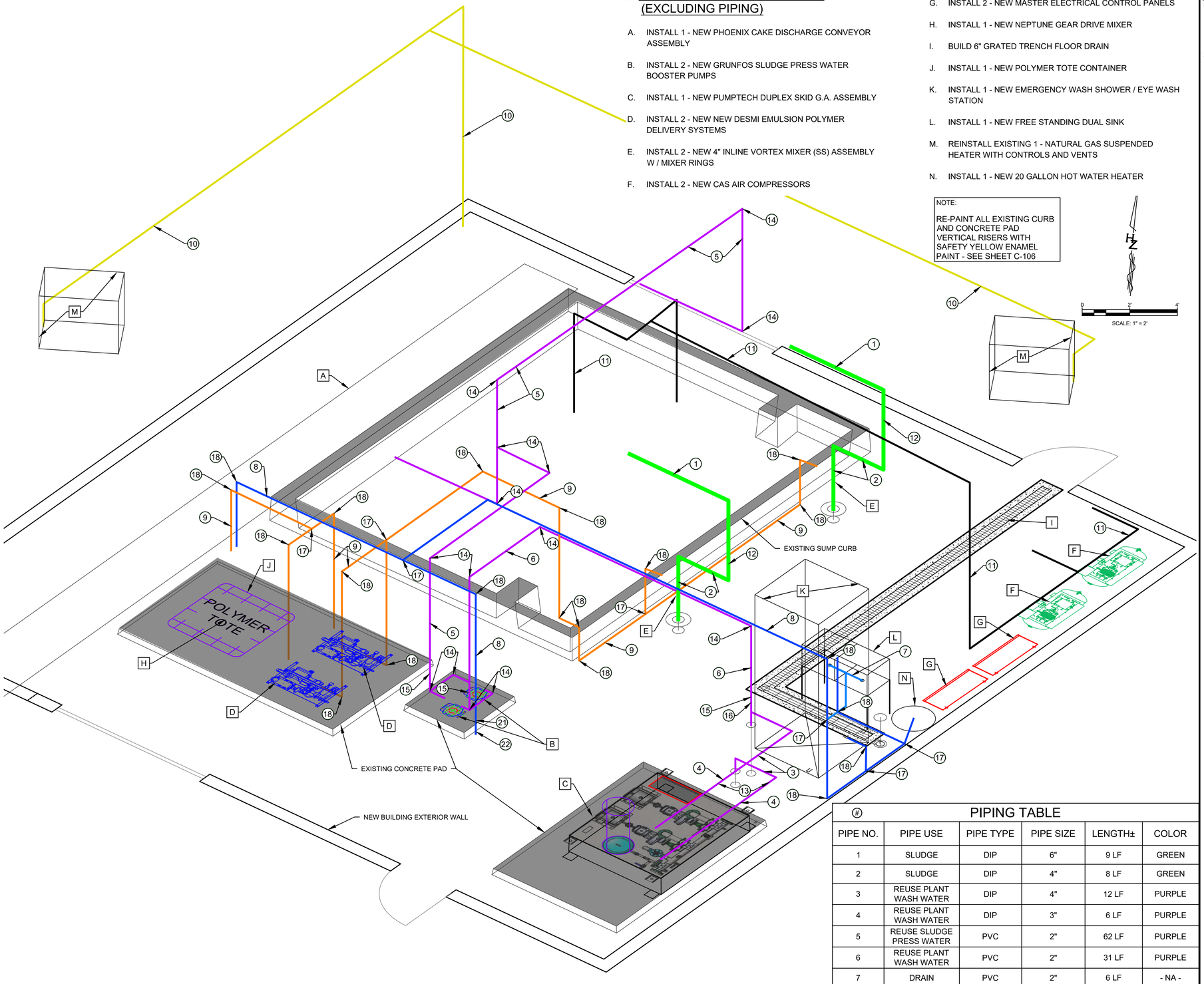
L. INSTALL 1 - NEW FREE STANDING DUAL SINK

M. REINSTALL EXISTING 1 - NATURAL GAS SUSPENDED HEATER WITH CONTROLS AND VENTS

N. INSTALL 1 - NEW 20 GALLON HOT WATER HEATER

NOTE:

RE-PAINT ALL EXISTING CURB AND CONCRETE PAD VERTICAL RISERS WITH SAFETY YELLOW ENAMEL PAINT - SEE SHEET C-106



SCALE: 1" = 2'

GENERAL NOTES

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CONSTRUCTION PIPING KEYED NOTES

1. INSTALL - NEW 6" DIP SLUDGE LINE
2. INSTALL - NEW 4" DIP SLUDGE LINE
3. INSTALL - NEW 4" DIP REUSE PLANT WASH WATER LINE
4. INSTALL - NEW 3" DIP REUSE PLANT WASH WATER LINE
5. INSTALL - NEW 2" PVC REUSE SLUDGE PRESS WATER LINE
6. INSTALL - NEW 2" PVC REUSE PLANT WASH WATER LINE
7. INSTALL - NEW 2" PVC DRAIN LINE
8. INSTALL - NEW 1" PVC POTABLE WATER LINE
9. INSTALL - NEW 1" PVC POLYMER LINE
10. INSTALL - NEW 3/4" BLACK STEEL NATURAL GAS LINE PER ASTM A53, GRADE A
11. INSTALL - NEW 1" STEEL AIR LINE
12. FOR 4" AND 6" DIP SLUDGE LINE FITTINGS - SEE SHEETS C-108 AND C-109
13. FOR 4" AND 3" DIP PLANT WASH WATER FITTINGS - SEE SHEETS C-110 AND C-111
14. INSTALL 1 - NEW 2" PVC 90° BEND / TEE
15. INSTALL 1 - NEW 2" PVC BALL VALVE
16. INSTALL 1 - NEW 2" PVC BACKFLOW PREVENTER
17. INSTALL 1 - NEW 1" PVC TEE
18. INSTALL 1 - NEW 1" PVC 90° BEND
19. INSTALL 1 - NEW 1" PVC BALL VALVE
20. INSTALL 1 - NEW 1" OR ¾" PVC SHUT OFF
21. INSTALL 1 - NEW 1" OR ¾" HOSE BIB
22. INSTALL 1 - NEW BACK FLOW PREVENTER

PIPING TABLE

PIPE NO.	PIPE USE	PIPE TYPE	PIPE SIZE	LENGTH±	COLOR
1	SLUDGE	DIP	6"	9 LF	GREEN
2	SLUDGE	DIP	4"	8 LF	GREEN
3	REUSE PLANT WASH WATER	DIP	4"	12 LF	PURPLE
4	REUSE PLANT WASH WATER	DIP	3"	6 LF	PURPLE
5	REUSE SLUDGE PRESS WATER	PVC	2"	62 LF	PURPLE
6	REUSE PLANT WASH WATER	PVC	2"	31 LF	PURPLE
7	DRAIN	PVC	2"	6 LF	- NA -
8	POTABLE WATER	PVC	1"	71 LF	BLUE
9	POLYMER	PVC	1"	70 LF	ORANGE
10	NATURAL GAS	BLACK STEEL	¾"	80 LF	BLACK
11	AIR	STEEL	1"	62 LF	BLACK

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

811 Know what's below. Call before you dig. TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3141 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

OVERALL BUILDING PIPING IMPROVEMENT SCHEMATIC - LOOKING NW

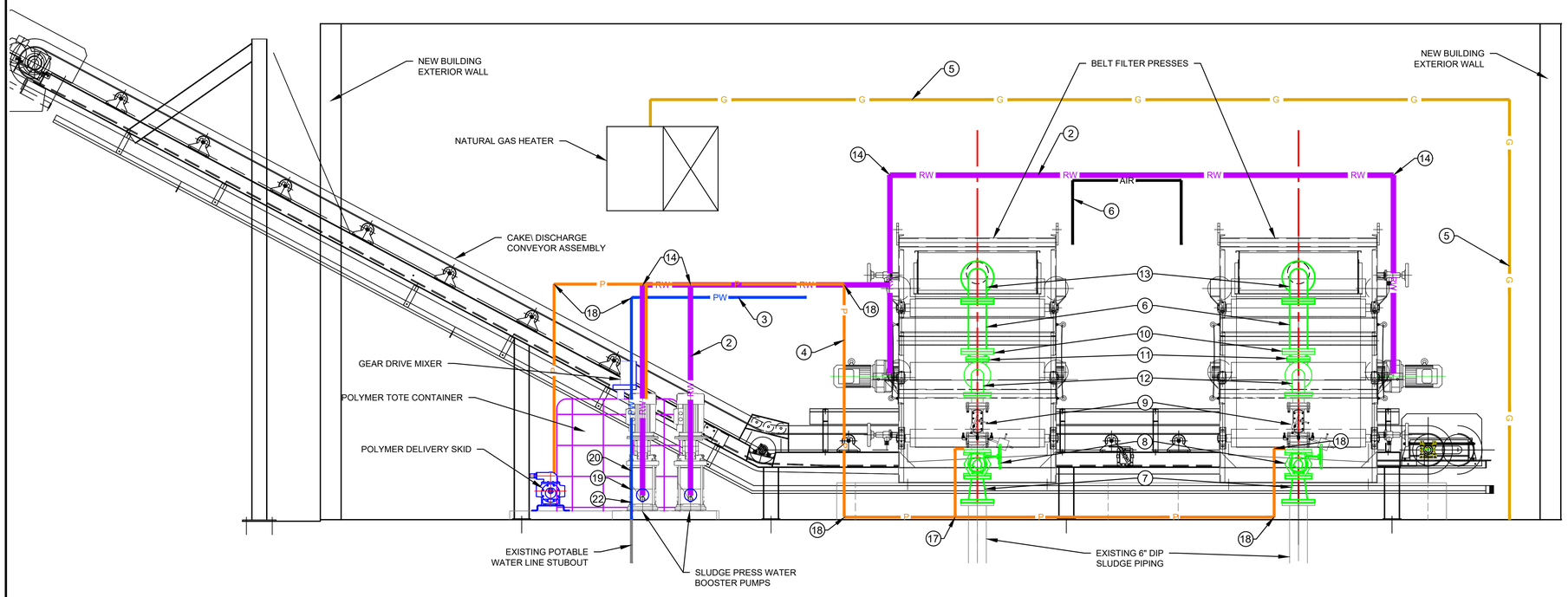
JOHN WESLEY VOYE NEW MEXICO 16920 REGISTERED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-107

Plotted: 7/11/2024, 9:00:10 PM, By:Mathieson, Corbin
H:\proj\R316613.01 - SOCORRO-JWV Sludge Filter Press\10 CADD & BIM\10.1 AutoCAD\SHEET SET\316613 - OVERALL BLDG IMPROVE.dwg
Last Saved:7/11/2024 4:55:11 PM, cmathieson



1 SIDE VIEW LOOKING FROM EAST TO WEST

SCALE: 1" = 2'

GENERAL NOTES

1. THE LOCATION OF EXISTING FACILITIES ARE BASED ON RECORD DRAWINGS, ABOVE GROUND FEATURES, SURVEY INFORMATION AND DESCRIPTIONS PROVIDED BY THE CITY OF SOCORRO, PUBLIC AND PRIVATE UTILITIES.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK. DAMAGE TO EXISTING UTILITIES CAUSED BY CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

(#) CONSTRUCTION PIPING KEYED NOTES

1. INSTALL - NEW 6" DIP SLUDGE LINE
2. INSTALL - NEW 2" PVC REUSE SLUDGE PRESS WATER LINE
3. INSTALL - NEW 1" PVC POTABLE WATER LINE
4. INSTALL - NEW 1" PVC POLYMER LINE
5. INSTALL - NEW 3/4" BLACK STEEL NATURAL GAS LINE PER ASTM A53, GRADE A
6. INSTALL - NEW 1" STEEL AIR LINE
7. INSTALL 1 - NEW 6" x4" DIP REDUCER (FL xFL)
8. INSTALL 1 - NEW 4" DIP PLUG VALVE (FL xFL)
9. INSTALL 1 - NEW 4" DIP INLINE VORTEX MIXER ASSEMBLY (FL xFL) - [BY OTHERS]
10. INSTALL 1 - NEW 4" x90° DIP BEND (FL xFL)
11. INSTALL 1 - NEW 4" DIP CHECK VALVE (FL xFL)
12. INSTALL 1 - NEW 6" x4" DIP REDUCING 90° BEND (FL xFL)
13. INSTALL 1 - NEW 6" x90° DIP BEND (FL xFL)
14. INSTALL 1 - NEW 2" PVC 90° BEND
15. INSTALL 1 - NEW 2" PVC BALL VALVE
16. INSTALL 1 - NEW 2" PVC BACKFLOW PREVENTER
17. INSTALL 1 - NEW 1" PVC TEE
18. INSTALL 1 - NEW 1" PVC 90° BEND
19. INSTALL 1 - NEW 1" PVC BALL VALVE
20. INSTALL 1 - NEW 1" OR $\frac{3}{4}$" HOSE BIB
21. INSTALL 1- NEW 1" BACKFLOW PREVENTER

Notice of Extended Payment Provision

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nm811 Know what's below. Call before you dig. TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
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2			
1			

REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3141 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

INTERIOR IMPROVEMENTS
ELEVATION - LOOKING FROM EAST

JOHN WESLEY VOTE NEW MEXICO 16920 LICENSED PROFESSIONAL ENGINEER

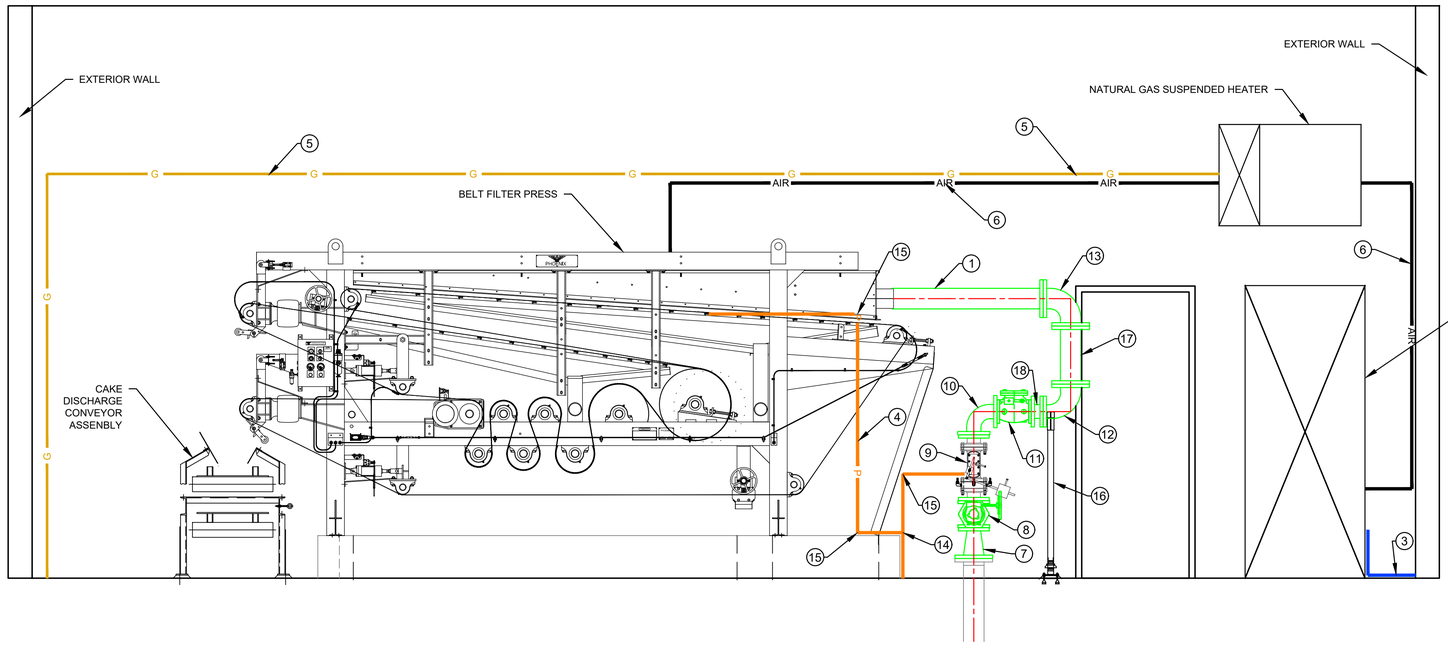
MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	
SHEET:	C-108

Plotted: 7/11/2024, 9:00:37 PM, By:Matheson, Corbin
H:\proj\R316613.01 - SOCORRO-JWV Sludge Filter Press\10 CADD & BIM\10.1 AutoCAD\SHEET SET\316613 - BLDG IMP SIDE VIEW FROM EAST.dwg
Last Saved:5/10/2024 10:02:07 AM, cmatheson

0 2' 4'

SCALE: 1" = 2'



2 SIDE VIEW LOOKING FROM SOUTH TO NORTH

SCALE: 1" = 2'

GENERAL NOTES

1. THE LOCATION OF EXISTING FACILITIES ARE BASED ON RECORD DRAWINGS, ABOVE GROUND FEATURES, SURVEY INFORMATION AND DESCRIPTIONS PROVIDED BY THE CITY OF SOCORRO, PUBLIC AND PRIVATE UTILITIES.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK. DAMAGE TO EXISTING UTILITIES CAUSED BY CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

(#) CONSTRUCTION PIPING KEYED NOTES

1. INSTALL - NEW 6" DIP SLUDGE LINE
2. INSTALL - NEW 4" DIP SLUDGE LINE
3. \INSTALL - NEW 1" PVC POTABLE WATER LINE
4. INSTALL - NEW 1" PVC POLYMER LINE
5. INSTALL - NEW 3/4" BLACK STEEL NATURAL GAS LINE PER ASTM A53, GRADE A
6. INSTALL - NEW 1" STEEL AIR LINE
7. INSTALL 1 - NEW 6" x4" DIP REDUCER (FL xFL)
8. INSTALL 1 - NEW 4" DIP PLUG VALVE (FL xFL) - SEE DETAIL 3 ON SHEET C-506
9. INSTALL 1 - NEW 4" DIP INLINE VORTEX MIXER ASSEMBLY (FL xFL) - [BY OTHERS]
10. INSTALL 1 - NEW 4" x90° DIP BEND (FL xFL)
11. INSTALL 1 - NEW 4" DIP CHECK VALVE (FL xFL) - SEE DETAIL 1 ON SHEET C-506
12. INSTALL 1 - NEW 6" x4" DIP REDUCING 90° BEND (FL xFL)
13. INSTALL 1 - NEW 6" x90° DIP BEND (FL xFL)
14. INSTALL 1 - NEW 1" PVC TEE
15. INSTALL 1 - NEW 1" PVC 90° BEND
16. INSTALL 1 - NEW PIPE SUPPORT - SEE DETAILS 2 AND 4 ON SHEET C-506
17. INSTALL 1 - NEW 1.62 LF 6" DIP SPOOL PIECE
17. INSTALL 1 - NEW 0.33 LF 4" DIP SPOOL PIECE

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
7			
6			
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REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3441 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

INTERIOR IMPROVEMENTS
ELEVATION - LOOKING FROM SOUTH

JOHN WESLEY VOTE
NEW MEXICO
16920
LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

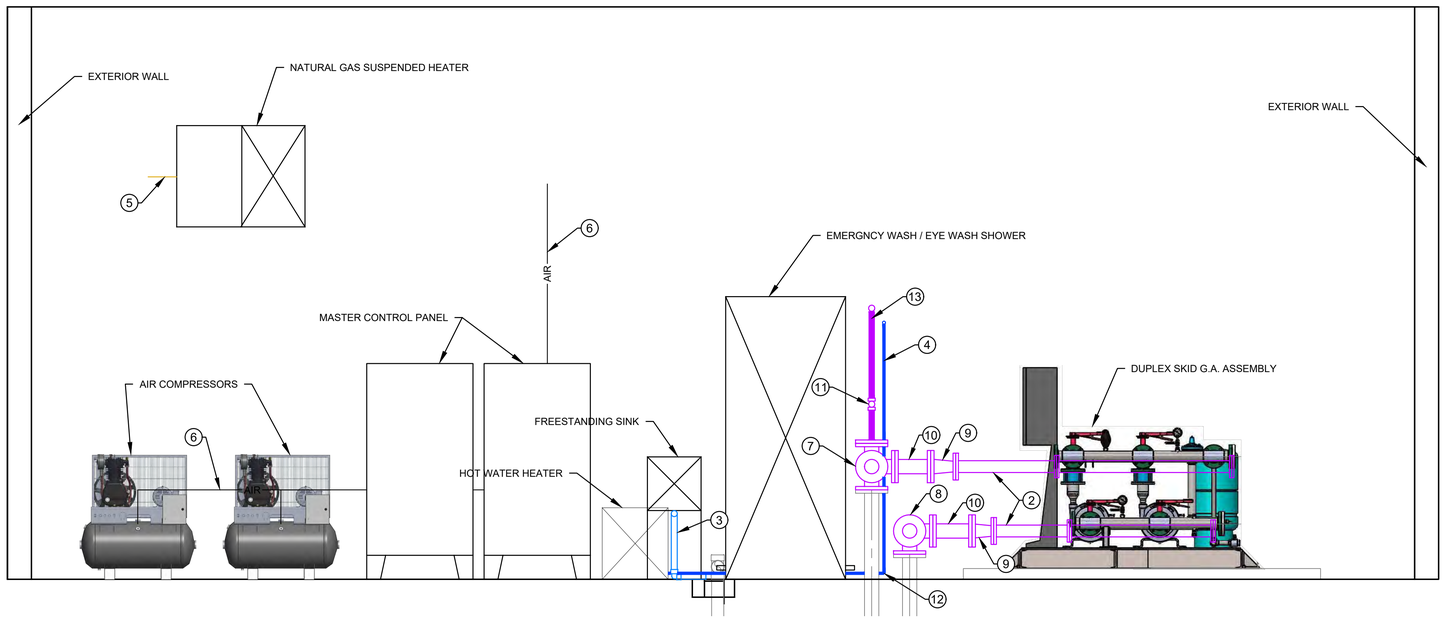
SHEET: C-109

nm811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

Plotted: 7/11/2024, 9:01:11 PM, By:Mathieson, Corbin
H:\proj\R316613.01 - SOCORRO-WW Sludge Filter Press\10 CADD & BIM\10.1 AutoCAD\SHEET SET\316613 - BLDG IMP SIDE VIEW FROM SOUTH.dwg
Last Saved:5/13/2024 10:42:54 AM, cmathieson

0 2' 4'

SCALE: 1" = 2'



NOTE:
ADJUST DUPLEX SKID ASSEMBLY PIPING TO MATCH NEW 3" DIP DISCHARGE AND SUCTION LINES

3 SIDE VIEW LOOKING FROM WEST TO EAST

SCALE: 1" = 2'

GENERAL NOTES

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(#) CONSTRUCTION PIPING KEYED NOTES

1. INSTALL - NEW 4" DIP REUSE PLANT WASH WATER LINE
2. INSTALL - NEW 3" DIP REUSE PLANT WASH WATER LINE
3. INSTALL - NEW 2" PVC DRAIN LINE
4. INSTALL - NEW 1" PVC POTABLE WATER LINE
5. INSTALL - NEW 3/4" BLACK STEEL NATURAL GAS LINE PER ASTM A53, GRADE A
6. INSTALL - NEW 1" STEEL AIR LINE
7. INSTALL 1 - NEW 4" DIP TEE (FL xFL) W / 4" x2" REDUCING FLANGE ON UPPER BRANCH
8. INSTALL 1 - NEW 4" DIP 90° BEND (FL xFL)
9. INSTALL 1 - NEW 4" x3" DIP REDUCER (FL xFL)
10. INSTALL 1 - NEW 1.0 LF 4" DIP SPOOL (FL xFL)
11. INSTALL 1 - NEW 2" PVC BALL VALVE
12. INSTALL 1 - NEW 1" PVC 90° BEND
13. INSTALL 1 - NEW 2" REUSE PLANT WASH WATER LINE

Notice of Extended Payment Provision

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CITY OF SOCORRO

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REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3441 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

INTERIOR IMPROVEMENTS
ELEVATION - LOOKING FROM WEST

JOHN WESLEY VOTE NEW MEXICO 16920 LICENSED PROFESSIONAL ENGINEER

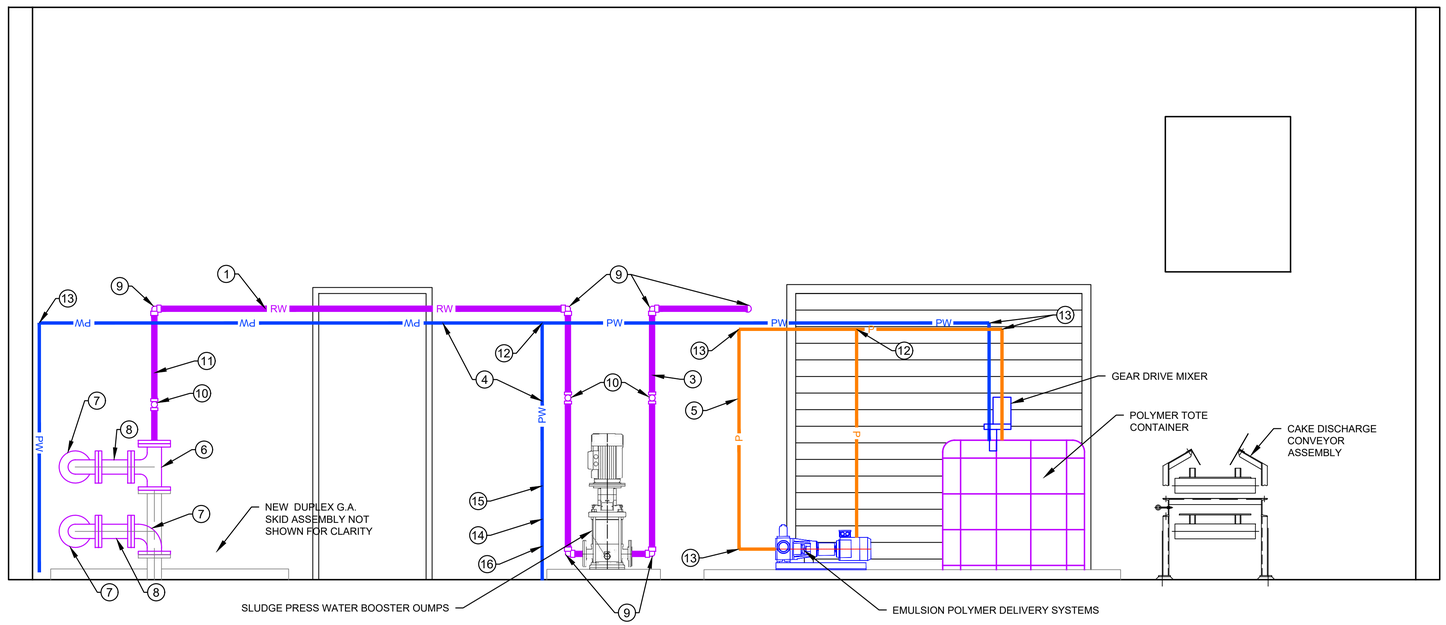
MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-110

Plotted: 7/11/2024 3:01:37 PM, By:Mathiesen, Corbin
H:\proj\R316613.01 - SOCORRO\WW Sludge Filter Press\10 CADD & BIM\10.1 AutoCAD\SHEET SET\316613 - BLDG IMP SIDE VIEW FROM WEST.dwg
Last Saved:5/13/2024 2:36:49 PM, cmathiesen

SCALE: 1" = 2'



4 SIDE VIEW LOOKING FROM NORTH TO SOUTH

SCALE: 1" = 2'

GENERAL NOTES

1. THE LOCATION OF EXISTING FACILITIES ARE BASED ON RECORD DRAWINGS, ABOVE GROUND FEATURES, SURVEY INFORMATION AND DESCRIPTIONS PROVIDED BY THE CITY OF SOCORRO, PUBLIC AND PRIVATE UTILITIES.
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(#) CONSTRUCTION PIPING KEYED NOTES

1. INSTALL - NEW 4" DIP REUSE PLANT WASH WATER LINE
2. INSTALL - NEW 2" PVC REUSE SLUDGE PRESS WATER LINE
3. INSTALL - NEW 2" PVC REUSE PLANT WASH WATER LINE
4. INSTALL - NEW 1" PVC POTABLE WATER LINE
5. INSTALL - NEW 1" PVC POLYMER LINE
6. INSTALL 1 - NEW 4" DIP TEE (FL xFL) W / 4" x2" REDUCING FLANGE ON UPPER BRANCH
7. INSTALL 1 - NEW 4" DIP 90° BEND (FL xFL)
8. INSTALL 1 - NEW 0.91 LF 4" DIP SPOOL (FL xFL)
9. INSTALL 1 - NEW 2" PVC 90° BEND
10. INSTALL 1 - NEW 2" PVC BALL VALVE
11. INSTALL 1 - NEW 2" PVC BACKFLOW PREVENTER
12. INSTALL 1 - NEW 1" PVC TEE
13. INSTALL 1 - NEW 1" PVC 90° BEND
14. INSTALL 1 - NEW 1" PVC BALL VALVE
15. INSTALL 1 - NEW 1" OR ¾" HOSE BIB
16. INSTALL 1 - NEW 1" BACKFLOW PREVENTER

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
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2			
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REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3441 Fax (505) 892-3259
Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

INTERIOR IMPROVEMENTS
ELEVATION - LOOKING FROM NORTH

JOHN WESLEY VOTE
NEW MEXICO
16920
LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-111

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

nm811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

Plotted: 7/11/2024 3:00:01 PM, By:Mathiesen, Corbin
H:\proj\R316613.01 - SOCORRO-WW Sludge Filter Press\10 CADD & BIM\10.1 AutoCAD\SHEET SET\316613 - BLDG IMP SIDE VIEW FROM NORTH.dwg
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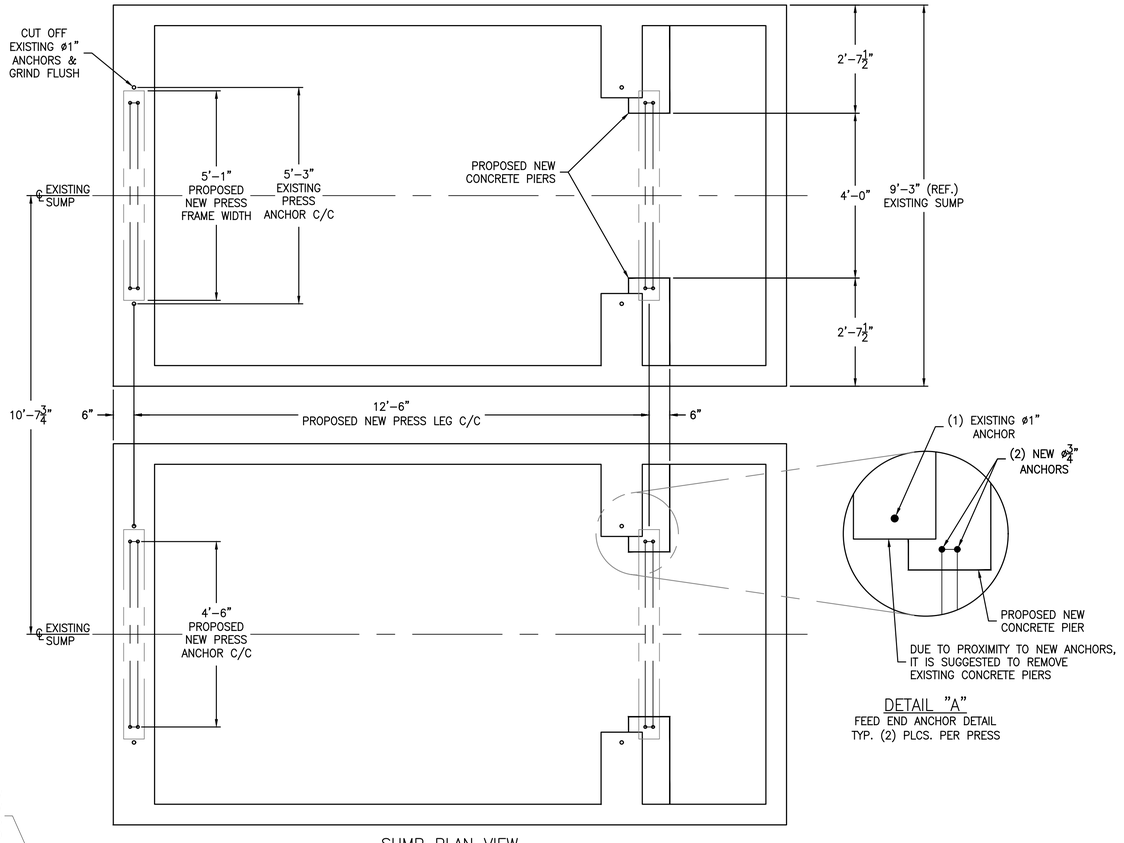
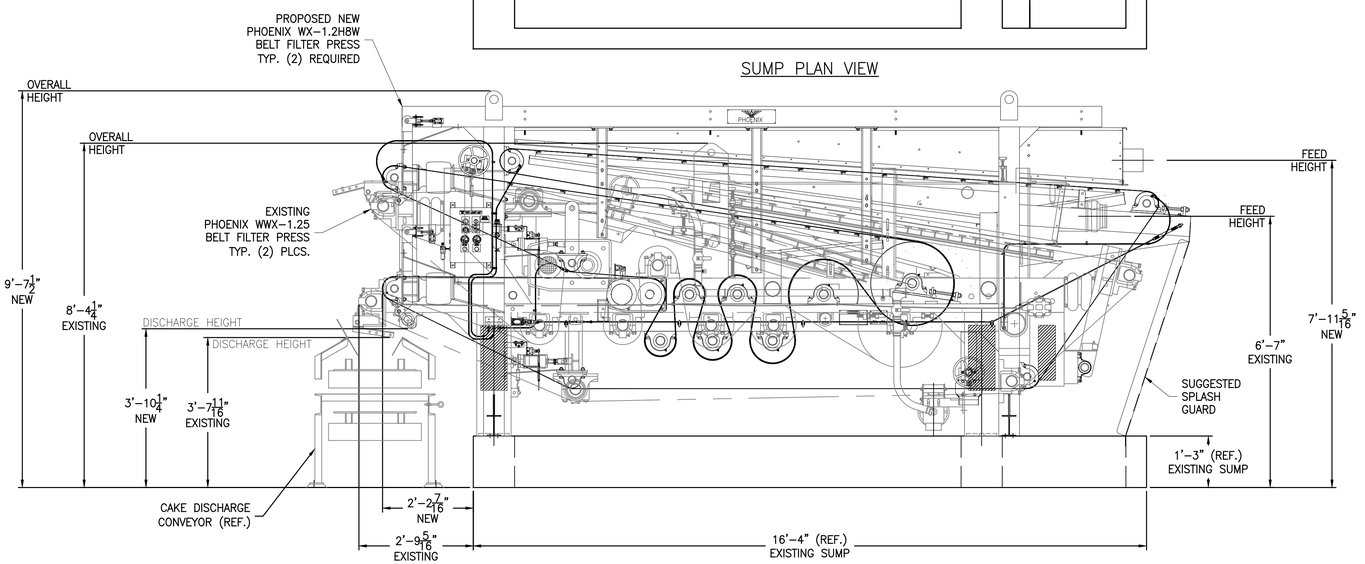


SUMP PLAN VIEW

DETAIL "A"
FEED END ANCHOR DETAIL
TYP. (2) PLCS. PER PRESS



LEFT SIDE ELEVATION

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

PRELIMINARY ISSUE NOT FOR CONSTRUCTION

REV	REV	ISSUE FOR REVIEW	BY	DATE
A			JT	06/17/24

DRAWN	ENGINEER	CHECKED BY/DATE
JT	JT	
SCALE	STYLE CODE	DATE
		06/13/2023

PHOENIX
PHOENIX PROCESS EQUIPMENT CO.

TITLE	PROPOSED WX–1.2H8W BELT FILTER PRESS LAYOUT
FOR	SOCORRO WWTP SOCORRO, NM
DWG.NO.	23473–SL
REV.	A

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
7			
6			
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1			

REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3441 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

BELT FILTER PRESS
LAYOUT DETAIL

JOHN WESLEY VOTE
NEW MEXICO
16920
LICENSED PROFESSIONAL ENGINEER

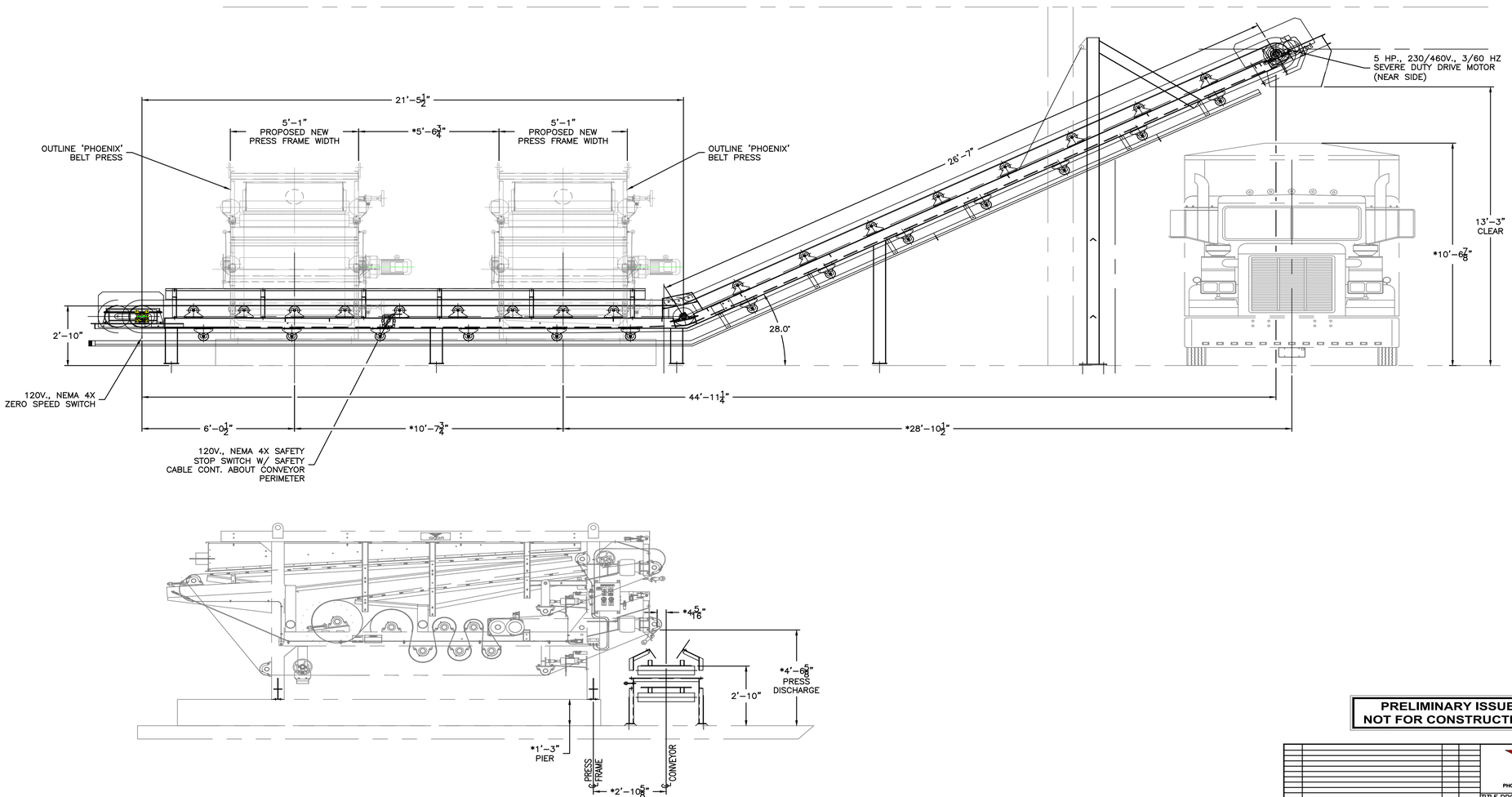
MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET:
C-501

nm811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

Plotted: 7/11/2024 3:02:34 PM, By:Matthiesen, Corbin
H:\proj\R316613.01 - SOCORRO-WW Sludge Filter Press\10 CADD & BIM\10.1 AutoCAD\SHEET SET\316613 - PROP IMPROV DETAILS.dwg
Last Saved:5/10/2024 10:29:47 AM, cmatthiesen



NOTE:
ALL DIMENSIONS MARKED WITH AN ASTERISK (*) TO BE FIELD–VERIFIED PRIOR TO FABRICATION

PRELIMINARY ISSUE NOT FOR CONSTRUCTION

REV.	DESCRIPTION	BY	DATE
A	ISSUE FOR REVIEW	JT	06/13/23

PHOENIX PROCESS EQUIPMENT CO.

DRAWN JT	ENGINEER JT	CHECKED BY/DATE	TITLE PROPOSED CAKE DISCHARGE CONVEYOR LAYOUT
SCALE	STYLE CODE	DATE 06/13/2023	FOR SOCORRO WWTP SOCORRO, NM
			DWG.NO. P17936–P01 REV. A

Notice of Extended Payment Provision

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811 Know what's below. Call before you dig.
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CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1			
2			
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4			
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6			
7			

REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3441 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

CAKE DISCHARGE CONVEYOR LAYOUT DETAIL

JOHN WESLEY VOTE — NEW MEXICO — 16920 — LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-502

Plotted: 7/11/2024, 9:00:47 PM, By:Mathiesen, Corbin
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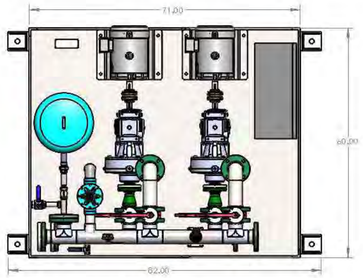
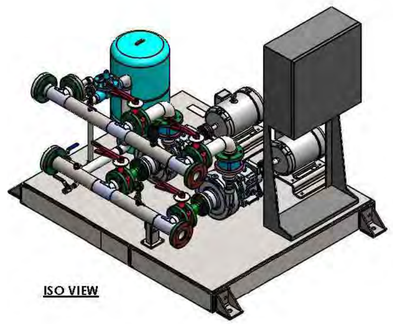
Last Saved:5/10/2024 10:28:47 AM, cmathiesen

FLUID MEDIUM	WATER
FLOW	75GPM (PER PUMP)
PRESSURE	180 TDH

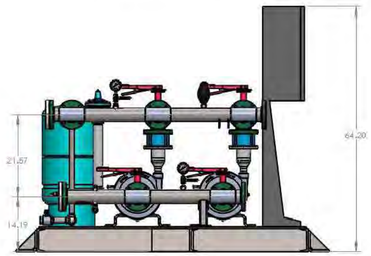
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	LAYOUT	3/15/2024	TDV



TOP VIEW



ISO VIEW



FRONT VIEW

NOTES:
1. MAIN PIPING SCH40 CS AND SKOTCHKOTED.
2. ALL FASTENERS STAINLESS STEEL.
3. BASE AND MOTOR RISERS TO BE POWDER COATED GRAY CARBON STEEL.
4. PIPE SUPPORTS NOT SHOWN

UNLESS OTHERWISE SPECIFIED:		NAME	INIT.	DATE
DIMENSIONS ARE IN INCHES	DRAWN	MG		3/14/24
TOLERANCES: FRACTIONAL +/- 1/8	CHECKED	JK		-
ANGULAR: +/- 1	SALES PERSON	-		-
TWO PLACE DECIMAL +/- 0.125	PURCH APPR	JB		-
THREE PLACE DECIMAL +/- 0.010	MFG APPR	KL		-
INTERPRET GEOMETRIC TOLERANCING PER:				
MATERIAL				
FINISH				
DO NOT SCALE DRAWING				

S.O.#181839 M.T.S.#M00XXX

PIPESTONE

SOCORRO WWTP

DUPLEX SKID G.A.

STATUS: LAYOUT

USED ON: -

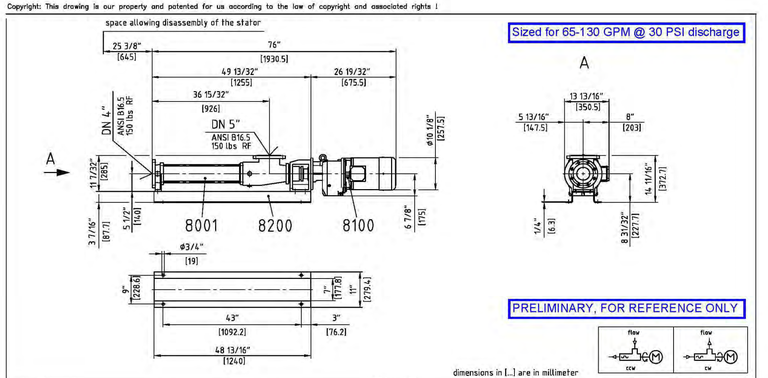
SIZE B | DWG. NO. M071XX | REV 1

SCALE:1:20 WT: Olbs | SHEET 1 OF 1

1 PUMPTECH DUPLEX PLANT WATER SYSTEM SKID ASSEMBLY
N.T.S.

NOTE:

SLUDGE FEED PUMPS ARE LOCATED IN A SEPARATE BUILDING



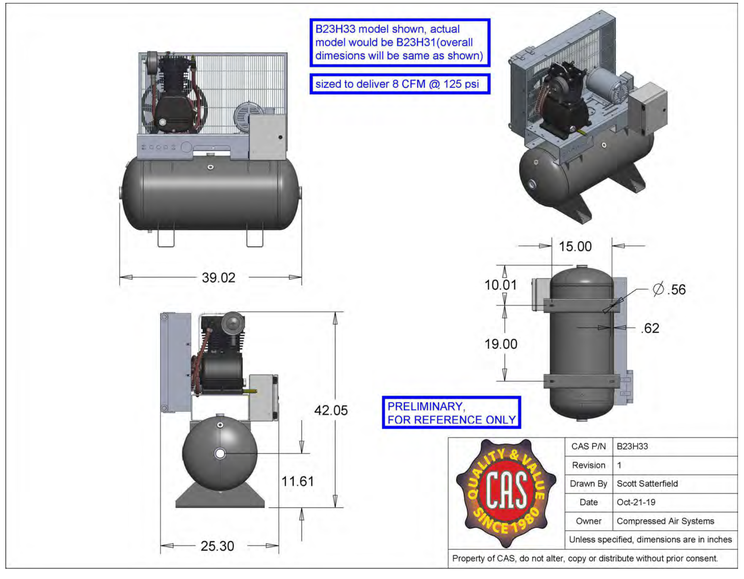
Quant.	Denomination	Item	Note	Weight / kg
1	baseplate:	8200	Var.: 801-200/0170-C-100	26
1	drive: Nord SK42F-132MP	8100		102
1	pump: BN 17-12 / 35-6L / 55-6LT / 30-12T	8001		110

SEEPEX. ALL THINGS FLOW

General tolerances for dimensions without specified tolerances acc. to DIN ISO 2768-v

	Name	Day	Scale	Weight	Denomination
2016					
Drawn	eba	13.06.	1:20	238 kg	dimensional drawing
Checked	lsh	14.06.	EDP-No. 154783.dwg		Drawing-no. 262-C18/0170-C-717A4

2 SEEPIX SLUDGE FEED PUMP
N.T.S.



3 CAS AIR CMPRESSOR
N.T.S.

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

811 Know what's below. Call before you dig. TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1	REVISIONS (OR CHANGE NOTICES)		

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3141 Fax (505) 892-3259
Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

CIVIL DETAILS

JOHN WESLEY VOYE NEW MEXICO 16920 REGISTERED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-503

Plotted: 7/11/2024, 3:03:13 PM, By:Matheson, Corbin
H:\proj\R316613.01 - SOCORRO-JWV Sludge Filter Press\10 CADD & BIM\10.1 AutoCAD\SHEET SET\316613 - CIVIL DET.dwg
Last Saved:5/10/2024, 10:26:45 AM, cmatheson

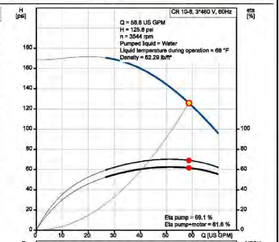
GRUNDFOS

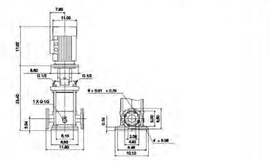
Company name:
Created by:
Phone:

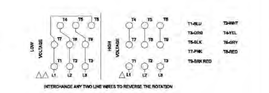
PRELIMINARY, FOR REFERENCE ONLY

Date: 17/12/2021

Description	Value
General Information:	
Product name:	CR 10-8 A-GJ-A-E-HQQE
Product No:	99917197
EAN number:	5715114119986
Technical:	
Pump speed on which pump data are based:	3467 rpm
Actual calculated flow:	58,6 US GPM
Resulting head of the pump:	125,8 psi
Maximum head:	167,5 psi
Actual impeller diameter:	3,66 in
Stages:	8
Impellers:	8
Number of reduced-diameter impellers:	0
Low NPSH:	N
Pump orientation:	Vertical
Shaft seal arrangement:	Single
Code for shaft seal:	HQQE
Approvals:	CURUS
Approvals for drinking water:	NSF/ANSI 61
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Cooling:	IC 411
Materials:	
Base:	Cast iron
Base:	EN 1561 EN-GJL-200
Base:	ASTM A48-25B
Impeller:	Stainless steel
Impeller:	EN 1.4301
Impeller:	AISI 304
Material code:	A
Code for rubber:	E
Bearing:	SIC
Installation:	
t max amb:	104 °F
Maximum operating pressure:	232,06 psi
Max pressure at stated temp:	232 psi / 250 °F
Max pressure at stated temp:	232 psi / -4 °F
Type of connection:	ANSI / JIS
Size of inlet connection:	DN 50
Size of outlet connection:	DN 50
Pressure rating for connection:	PN 25
Flange rating inlet:	300 lb
Flange size for motor:	213TC
Connect code:	GJ
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-4 .. 248 °F
Selected liquid temperature:	68 °F
Density:	62,29 lb/ft³
Electrical data:	
Motor standard:	NEMA
Motor type:	WEG
IE Efficiency class:	IE3 / NEMA Premium
Rated power - P2:	7,5 HP
Power (P2) required by pump:	7,5 HP
Mains frequency:	60 Hz
Rated voltage:	3 x 208-230/460 V
Service factor:	1,15
Rated current:	19,2-17,3/8,67 A
Starting current:	760-760 %
Full load SF current:	19,9/9,97 A
Cos phi - power factor:	0,89
Rated speed:	3530 rpm
Efficiency:	IE3 89,5%







GRUNDFOS

Company name:
Created by:
Phone:

Date: 17/12/2021

Description	Value
Motor efficiency at full load:	89,5 %
Motor efficiency at 3/4 load:	88,5 %
Motor efficiency at 1/2 load:	87,5 %
Number of poles:	2
Enclosure class (IEC 34-5):	IP55
Insulation class (IEC 85):	F
Built-in motor protection:	NONE
Motor No:	99882381
Controls:	
Frequency converter:	NONE
Others:	
DOE Pump Energy Index CL:	0,87
Net weight:	245 lb
Gross weight:	265 lb
Shipping volume:	13,1 ft³
Country of origin:	US
Custom tariff no.:	8413.70.2040

1 GRUNDFOS WASH WATER BOOSTER PUMP
N.T.S.

Quotation no.:QJ014374_1
Reference: Revised OEM Selection sheet
Date: 25-04-2021
Page no. 10

DESMI

Technical Specification
Pos. 1 3/6 GPM @ 75PSI

General Information

Pump Type Rotan Gear Pump **Pump** HD26EM-1U3B2
Description HD - Heavy Duty - Internal gear pump, for a wide range of viscous, non-corrosive liquids.

Pump Data

Pump Media	Polymers	
Viscosity	500	cSt
Capacity	5,31	US gpm
Capacity min.	5,16	US gpm
Capacity max.	5,41	US gpm
Volume Deviation	2,79	%
Pressure / Head	75,00	psi
Pump Speed	1150	rpm
Speed in % of max.	68	%
Temperature	90	°F
Power Consumption	0,89	HP
Rotor Speed	4,34	m/s
NPSHr	5,96	ft.LC
Torque	5	Nm
Torque of max.	27	%
Efficiency	26	%

Technical Specification

Pump Casing	GG-25
Connection	ANSI B1.20.1 - NPT 1"
Rotor/Idler	GG-25
Idler bush	Carbon
Idler pin	Hardened 16 MnCr 5
Main Bearing Bush	Ball bearing
Shaft	St.60.2
Shaft Seal (Process side)	KB (SBVGG), Viton, AISI329/AISI316
Shaft Seal (Atmosph. side)	-
Front Heating	-
Rear Heating	-
Bypass Valve Setting	8,00 bar
Magnet Type	-
Coupling	L095 H
Baseplate	10A Carbon Steel

Motor Data

Brand	DESMI standard NEMA
Motor	MOTOR 1200 RPM 1 HP 145T (Foot Mounted)
Motor Size	140TC IEC
Efficiency Class	Prem. Eff.
Performance	1,00 HP
Number of Poles	6
Power Supply	3 x 460V, 60 Hz
Motor Speed	1150 rpm
Insulation Class	F
Motor Enclosure	IP55
Rated Current	0,74 A
Starting Current Ratio	0,66
Cos Phi	0,75
Motor Options	-

Gear Data

Brand	-
Gear	-
Motor Size	-
Input Speed	-
Output Speed	-
Gear Ratio	-
Power Supply	-
Gear Options	-

Specification

Color Specification	Blue, Ral 5010
Paint Procedure	DESMI STANDARD
Class Society Test	-
Test Grade	-
ATEX	-

MARINE & OFFSHORE | INDUSTRY | ENVIRO-CLEAN | DEFENCE & FUEL | UTILITY
DESMI Inc
1119 Cavalier Blvd.
Chesapeake, VA 23323
USA
Phone: (757) 857-7041
Fax: (757) 857-6989
Web: www.desmi.com
Bank: TowneBank
SWIFT: WFBIUS6S
ABA: 051408949
Acct: 0261117483
World Trade Center
101 W. Main St., Suite 1000:
Norfolk, VA 23510

Quotation no.:QJ014374_1
Reference: Revised OEM Selection sheet
Date: 25-04-2021
Page no. 11

DESMI

Pump Data

		Duty Point	Duty Point 1	Duty Point 2	Duty Point 3
Viscosity	cSt	500	500	-	-
Capacity	US gpm	5,31	2,99	-	-
Capacity min.	US gpm	5,16	2,84	-	-
Capacity max.	US gpm	5,41	3,09	-	-
Pressure	psi	75,00	75,00	-	-
Pump Speed	rpm	1150	657	-	-
Speed in % of max.	%	68	39	-	-
Temperature	°F	90	90	90	90
Power Consumption	HP	0,89	0,46	-	-
Rotor Speed	m/s	4	2	-	-
NPSHr	ft.LC	5,96	3,05	-	-
Torque	Nm	5	5	-	-
Torque of max.	%	27	25	-	-
Efficiency	%	26	28,26	-	-
Volume Deviation	%	3	5	-	-

2 DESMI POLYMER DELIVERY PUMP
N.T.S.

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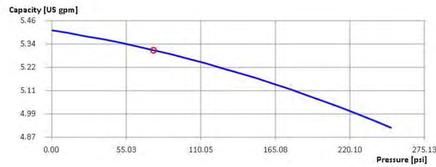
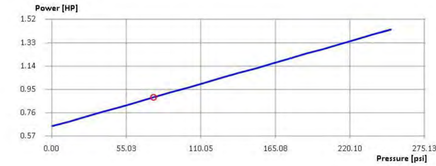
Reference: Revised OEM Selection sheet
Date: 25-04-2021
Page no. 12

DESMI

Pos. 1 3/6 GPM @ 75PSI - Pump Curves





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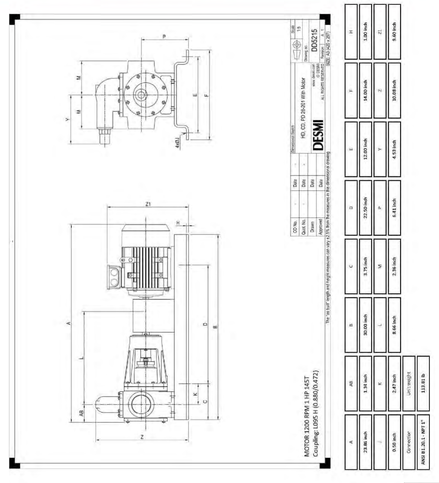
Page no. 13

DESMI

Pos. 1 3/6 GPM @ 75PSI - Dimensional Drawing



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CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			

REVISIONS (OR CHANGE NOTICES)

Designed By:
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Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

CIVIL DETAILS

JOHN WESLEY VOYE
NEW MEXICO
16920
REGISTERED PROFESSIONAL ENGINEER

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PROJECT NO.	R316613.01
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DATE:	MAY, 2024
DPW CHK:	

SHEET: C-504

Plotted: 7/11/2024, 3:03:17 PM, By:Matheson, Corbin
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Last Saved:5/10/2024, 10:26:45 AM, cmatheson

Series JG
Gear Drive Mixer, Clamp or Cup Plate Mount
Heavy Helical Gear, 350 rpm, Grease Lube

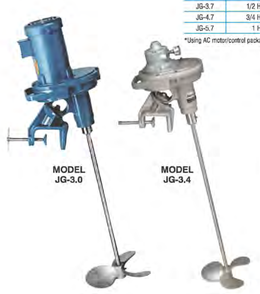
Neptune's most powerful mixers for the most difficult mixing applications. Grease filled gearbox eliminates oil seal and the possibility of oil contamination of process.

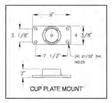
Features

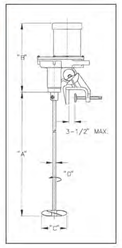
- No clutches to slip, wear or replace.
- 316SS propellers and shafts are standard. Optional coatings such as rubber, PVC or Teflon® also available.
- Square pitch 1.0 ratio marine propellers are used exclusively. Flow coefficients and power consumption characteristics equal those of the best hydrofoil impeller designs.
- Vibration-absorbing pad standard.
- Motors are available in TEFC or explosion-proof enclosures (1750 rpm, 56C frame). Air motors also available.
- Gears run in grease lubrication. Cannot leak oil.
- All JG mixer shaft bearings are permanently lubricated.
- Cast aluminum housing.
- Mounting clamp has adjustable angle of entry by indexed ball-and-socket design to achieve various process results.
- Fixed cup plate mount optional on 1/3 HP through 1½ HP. Standard on 2 HP and larger models.

Model Number	Standard Motor Description	A Shaft Length	B	C Single	C Dual	D Shaft Diameter
Totally-enclosed fan-cooled (TEFC)						
JG-2.0	1/3 HP-1-115/230	48"	17⅛"	10"	8"	⅜"
JG-2.1	1/3 HP-3-230/460	48"	17⅛"	10"	8"	⅜"
JG-3.0	1/2 HP-1-115/230	48"	18⅛"	12"	10"	⅜"
JG-3.1	1/2 HP-3-230/460	48"	17⅛"	12"	10"	⅜"
JG-4.0	3/4 HP-1-115/230	60"	18⅛"	13"	11"	⅜"
JG-4.1	3/4 HP-3-230/460	60"	18⅛"	13"	11"	⅜"
JG-5.1	1 HP-3-230/460	60"	18⅛"	14"	12"	1"
JG-6.1	1½ HP-3-230/460	60"	18⅛"	16"	13"	1"
JG-7.1	2 HP-3-230/460	60"	20⅛"	16"	14"	1⅛"
JG-8.1	3 HP-3-230/460	72"	21⅛"	16"	15"	1⅛"
Explosion-proof class 1 group D (EP)						
JG-2.2	1/3 HP-1-115/230	48"	20⅛"	10"	8"	⅜"
JG-2.3	1/3 HP-3-230/460	48"	17⅛"	10"	8"	⅜"
JG-3.2	1/2 HP-1-115/230	48"	21"	12"	10"	⅜"
JG-3.3	1/2 HP-3-230/460	48"	19⅛"	12"	10"	⅜"
JG-4.2	3/4 HP-1-115/230	60"	21⅛"	13"	11"	⅜"
JG-4.3	3/4 HP-3-230/460	60"	19⅛"	13"	11"	⅜"
JG-5.3	1 HP-3-230/460	60"	20⅛"	14"	12"	1"
JG-6.3	1½ HP-3-230/460	60"	20⅛"	15"	13"	1"
JG-7.3	2 HP-3-230/460	60"	22⅛"	16"	14"	1⅛"
Air motor						
JG-3.4	1/3-1/2 HP AIR 12-20CFM at 40-80PSI	48"	17⅛"	12"	10"	⅜"
JG-4.4	3/4 HP AIR 30CFM at 60PSI	60"	18"	13"	11"	⅜"
JG-5.4	1 HP AIR 40CFM at 40PSI	60"	19⅛"	14"	12"	1"
JG-6.4	1½ HP AIR 55CFM at 60PSI	60"	19⅛"	15"	13"	1"
JG-7.4	2 HP AIR 65CFM at 70PSI	60"	15⅛"	16"	14"	1⅛"
JG-8.4	4 HP AIR 125CFM at 98PSI	72"	16⅛"	16"	15"	1⅛"
Variable speed 55 to 350 RPM totally-enclosed fan-cooled (TEFC)*						
JG-2.7	1/3 HP Variable Speed, 1/115 V	48"	17⅛"	10"	8"	⅜"
JG-3.7	1/2 HP Variable Speed, 1/115 V	48"	18⅛"	12"	10"	⅜"
JG-4.7	3/4 HP Variable Speed, 1/230 V	60"	18⅛"	13"	11"	⅜"
JG-5.7	1 HP Variable Speed, 1/230 V	60"	18⅛"	14"	12"	1"

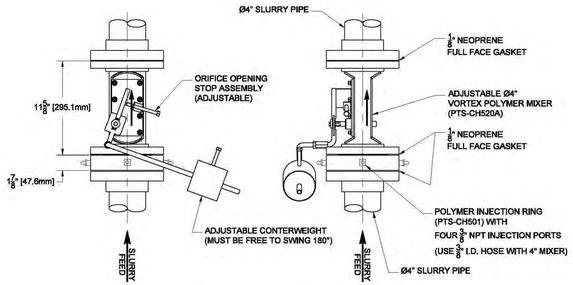
*Using AC motor/control package.







1 NEPTUNE 4" VORTEX MIXER
N.T.S.



PHOENIX RECOMMENDS, IF IT IS PRACTICAL TO INSTALL THE MIXER VERTICALLY, WITH UPFLOW OF MATERIAL THROUGH THE MIXER. HOWEVER, THE MIXER CAN BE INSTALLED HORIZONTALLY, IF IT IS COMPLETELY FLOODED DURING OPERATION.
THE PIPE RUN FROM MIXER TO PRESS SHOULD BE SIZED FOR 10-30 SECONDS RETENTION TIME WITH A TARGET DISCARGE FLOW INTO THE PRESS OF 2 FEET PER SECOND OR LESS VELOCITY. CONTACT PHOENIX PROCESS EQUIPMENT CO. IF MORE INFORMATION IS NEEDED.

Ø4" VORTEX MIXER
316 STAINLESS STEEL

NOTE:
Gaskets & hardware to be supplied by piping contractor or others.

PFLT4024
Double Basin Laundry Sink

PROFLO

Product Features

- Made from a Sheet Molding Compound (SMC), a plastic composite made up of filler, fire retardant, thickener, and internal mold release that have been mixed with liquid resin and a catalyst, and molded under extreme heat and pressure to create a laundry tub with unparalleled strength.
- Floor-mounted units are equipped with white baked enamel steel angle legs with leveling devices.
- Knock-out holes provided for 4" and 8" center set faucet holes
- Internal basin depth: 11-1/4"

PFLT4024

Model Numbers

PFLT4024	Floor Mounted Double Compartment Sink
PFLT4024W	Wall Mounted Double Compartment Sink*

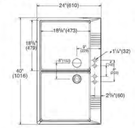
*Wall-mounting hardware and filler panels included

Product Specification

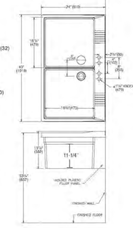
Available Parts

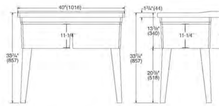
PFLTLEGS	LEGS F/PFLT SET 4 WHITE
PFLTWM	WM PART KIT F/PFLT
PFLTDRAIN	LDRY TUB DRAIN ASSEMBLY

PFLT4024 - Floor Mounted



PFLT4024W - Wall Mounted





Warranty and Codes

These products come complete with installation, operating, care and maintenance instructions. All PROFLO laundry sinks carrya 1- year limited warranty. In an effort to continually improve our products, we will make design changes from time to time. We reserve the right to ship newly designed product to fill any order unless we agree in writing to do otherwise.

Distributed Exclusively by Ferguson and Wolseley Canada

108912 0216

2 PROFLO DOUBLE BASIN LAUNDRY SINK
N.T.S.

SD32K45G
SD32K45G-PUMP
Emergency Cubicle Shower
Type: Combination Shower

Designed for locations where space is at a premium or the shower needs to be enclosed, this emergency combination shower includes an integral drain sump and strip screens to reduce the risk of water outside the cubicle area. Includes interior mounted, ANSI compliant eye/face wash with cover. Shower and eyes/face wash are hand activated. Upgrade to add a 120V sump pump, suitable for non-hazardous locations.

shown without strip screens

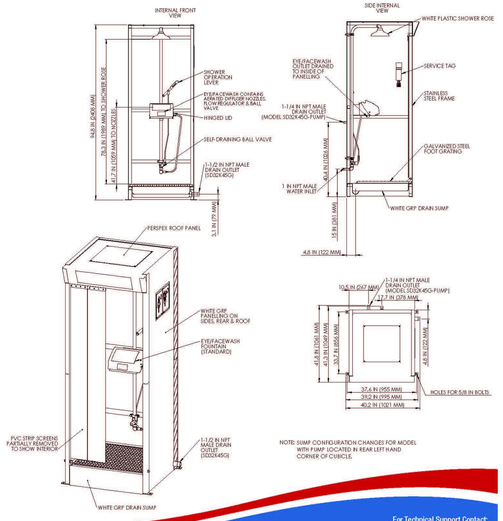
Specifications

MATERIALS OF CONSTRUCTION	
PIPEWORK AND FITTINGS	Stainless steel
OPERATING VALVES	Showers: 316L stainless steel, two piece stay open valve Eye/face: chrome plated brass
SHOWER SPRAY OUTLETS	ABS shower rose
STANDARD FINISH	GRP
FRAME	Stainless steel
EYE WASH	Acrylic Capped ABS
SERVICES	
WATER INLET	1 in Male NPT
DESIGN OPERATING PRESSURE	2 to 6 BAR G (29 to 87 PSI)
TEST PRESSURE	10.3 BAR G (149 PSI)
MINIMUM FLOW AT OPERATING PRESSURE	Shower: 75 liters/minute minimum (20 US Gallons) Eye/face wash: 11.4 liters/minute minimum (3 US Gallons)
ELECTRICAL EQUIPMENT - NON-HAZARDOUS (PUMP)	Suitable for use in areas classified as non-hazardous
ELECTRICAL SUPPLY PUMP (PUMP)	120V single phase, 60Hz (plug and provided)
ENVIRONMENTAL OPERATING TEMPERATURE	
MINIMUM AMBIENT OPERATING TEMPERATURE	5° C (41° F)
MAXIMUM AMBIENT OPERATING TEMPERATURE	35° C (95° F)
OPERATIONAL	
SHOWER/BODY SPRAY OPERATION	Hand activated (Optional foot panel for hands free operation)
EYE/FACE WASH OPERATION	Pull lid forward
NOMINAL WEIGHTS and DIMENSIONS	
DIMENSIONS - STANDARD ORIENTATION (W x D x H)	SD32K45G: 1021 mm (40.2 in) x 1049 mm (41.3 in) x 2406 mm (94.8 in) SD32K45G-PUMP: 995 mm (39.2 in) x 1061 mm (41.8 in) x 2406 mm (94.8 in)
WEIGHT	SD32K45G: 116 kg (255 lb) SD32K45G-PUMP: 123 kg (270 lb)

HUGHES
HUGHES-SAFETY-SHOWERS.COM
Justrite Safety Group
RevA 1/31/19
hughes-safety-showers.com

SD32K45G
SD32K45G-PUMP
Product Data Sheet - G.A. Drawings

Emergency Cubicle Shower Type: Combination Shower



HUGHES
Justrite Safety Group
Hughes North America
457 Campbell Street
Sarnia, Ontario N7T 2J1, Canada.

For Technical Support Contact:
customer.service@hughes-safety.com • 1-866-312-1652

For Reorder & Sales Support Contact:
custserv@justrite.com • 1-800-798-9250

Registered No. 6930240, VAT Registration No. 918 5065 32 ©2019 Hughes Safety Showers

3 HUGHES EMERGENCY COMBINATION SHOWER
N.T.S.

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			

REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3141 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

CIVIL DETAILS

JOHN WESLEY VOTE
NEW MEXICO
16920
LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET:
C-505

nm811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

Plotted: 7/11/2024 3:03:22 PM, By:Mathiesen, Corbin
H:\proj\R316613.01 - SOCORRO\JWV Sludge Filter Press\10 CADD & BIM\10.1 AutoCAD\SHEET SET\316613 - CIVIL DET.dwg
Last Saved:5/10/2024 10:26:45 AM: cmathiesen

CLA-VAL

585 Series

Swing Check Valve

- Full Pipe Size Flow Area - Unrestricted flow
- Heavy Duty Disc Connections
- Non-Clog Design
- Fusion Bonded Epoxy Coating NSF-61
- Drip Tight Seating
- Full Domed Access Cover with Vent Port
- Three field adjustable closure options:
  - Lever and Weight (LW)
  - Air Cushion (AC)
  - Lever and Spring (LS)

Cla-Val Swing Check Valve Specifications

The check valve shall be of the Swing Check Valve full body flanged type, with a domed access cover and only one moving part - the swing check valve disc.

The valve body shall have full flow equal to nominal pipe diameter at any point through the valve. The top access port of the body shall be full size, allowing removal of the disc without removal of the valve from the pipeline. The cover shall be domed to create a flushing action around the disc when valve is open. The valve body and cover shall be ASTM A536 Grade 65-45-12, Class B Ductile Iron coated and lined with an ANSI/NSF61 approved fusion bonded epoxy coating. The 585 Series Swing Check shall be designed, manufactured, and tested in accordance with ANSI/AWWA Standard C550.

The disc shall be raised one-piece Stainless Steel construction and equipped with a molded resilient seat mounted on the disc with an integral J-Ring for drip tight sealing. Both seats shall be secured with stainless steel fasteners and must be field replaceable without removing the valve from the pipeline.

The valve shall be available with a choice of three closure options:

1) **Lever and Weight**
2) **Air Cushion**
3) **Lever and Spring**

This valve shall be a Cla-Val 585 Swing Check Valve as supplied by Cla-Val, Newport Beach, CA 92659-0325.

The Cla-Val 585 Swing Check Valve is designed for long service life and maintenance free operation. It has a full-flow area body and is equipped with a disc arm with dual precision pins for optimum disc connection and protection against damage due to vibration. The body is fitted with a raised 300 Series Stainless Steel seat as well as a resilient seat to help ensure drip tight seating, even in applications with high solids. The seats are replaceable in the field without removing the valve from the pipeline.

The valve is constructed of Ductile Iron to provide greater durability and protection in applications with high stresses and shock loads. The body and cover are fusion bonded NSF-61 epoxy coated in accordance with AWWA C550 for long service life in potable and non-potable systems.

During system flowing conditions the disc swings up to the open position allowing unrestricted flow through the valve. When system reverse flow conditions occur, the disc swings down to the closed position, preventing reverse flow.

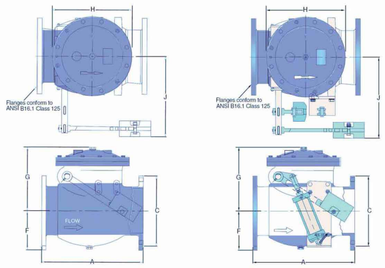
Closure Options

585LW Lever and Weight

585AC Air Cushion

585LS Lever and Spring

585LW Lever and Weight / 585AC Air Cushion Dimensions



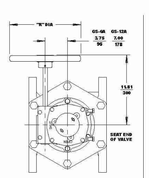
Dimensions in Inches

Valve Size	CWP (psig)	A	C	F	G	H	J	LW Valve Weights	AC Valve Weights
2	250	8.00	6.00	-	4.34	5.39	4.38	104	-
2 1/2	250	8.50	7.00	-	4.34	5.78	7.00	115	-
3	250	9.50	7.50	3.75	6.69	7.01	7.38	123	133
4	250	11.50	9.00	4.50	7.60	7.87	8.63	165	180
6	250	16.00	11.00	6.69	10.83	12.50	12.00	298	318
8	250	19.50	13.50	8.46	12.80	15.75	15.75	375	400
10	250	24.50	16.00	8.66	14.33	17.52	17.38	535	570
12	250	27.50	19.00	10.63	17.32	19.88	17.88	810	850
14	250	31.00	21.00	12.50	19.96	23.88	23.13	1064	1114
16	250	36.00	23.50	13.75	21.22	26.50	25.00	1253	1303
18	250	40.00	25.00	15.00	23.22	27.88	26.38	1521	1571
20	250	40.00	27.50	18.00	24.94	30.44	28.25	1890	1940
24	250	48.00	32.00	18.50	30.34	36.63	32.75	3052	3112
30	150 250	56.00	38.75	22.00	38.47	43.81	40.75	5514	5574
36	150 250	63.00	46.00	25.50	43.22	51.41	45.06	8151	8211
42	150 250	70.00	53.00	29.25	49.80	59.88	50.00	11380	11460
48	150 250	76.00	59.50	32.75	56.38	68.38	55.13	16780	16860

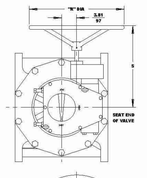
1 CLAVAL 585 SERIES SWING CHECK VALVE
N.T.S.

Dimensions

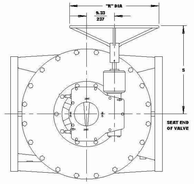
HANDWHEEL 3-20" (80-500mm)
GS-6A-HD_ & GS-12A-HD_

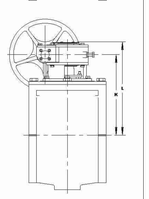


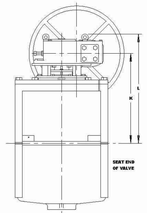
HANDWHEEL 16-30" (400-750mm)
MG-MJ50-HD_

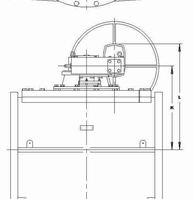


HANDWHEEL 30-36" (760-900mm)
MG-ML60-HD_

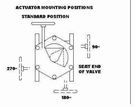




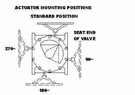




ACTUATOR MOUNTING POSITIONS
STANDARD POSITION



ACTUATOR MOUNTING POSITIONS
STANDARD POSITION



ACTUATOR MOUNTING POSITIONS
STANDARD POSITION

CONTRACTOR NOTE:

1. CONTRACTOR SHALL VERIFY ORIENTATION OF PLUG VALVE ACTUATOR DURING SHOP SUBMITTAL PROCESS.

Dimensions

Handwheel/Chainwheel/Nut Actuated Valves

Valve Size	Actuator Code	K HD	K CW	L HD	L CW	R HD	R CW	S HD	S CW	2" Nut (N)
3" 80mm	GS-6A-HD8 (N)	8.00 203		10.69 272		8.00 203		11.81 300	—	15.25 387
	GS-6A-CW8	8.00 203		10.69 272		8.00 203		—	11.75 298	—
4" 100mm	GS-6A-HD8 (N)	8.62 219		11.33 287		8.00 203		11.81 300	—	15.25 387
	GS-6A-CW8	8.62 219		11.33 287		8.00 203		—	11.75 298	—
5 & 6" 125 & 150mm	GS-6A-HD8 (N)	9.75 248		12.44 316		8.00 203		11.81 300	—	15.25 387
	GS-6A-CW8	9.75 248		12.44 316		8.00 203		—	11.75 298	—
8" 200mm	GS-6A-HD8 (N)	12.69 397		14.78 375		8.00 203		11.81 300	—	15.25 387
	GS-6A-CW8	12.69 397		14.78 375		8.00 203		—	11.75 298	—
	GS-6A-HD12	12.69 397		14.78 375		12.00 305		11.81 300	—	—
	GS-6A-CW12	12.69 397		14.78 375		12.00 305		—	11.75 298	—
10" 250mm	GS-6A-HD8 (N)	13.50 343		16.19 411		8.00 203		11.81 300	—	15.25 387
	GS-6A-CW8	13.50 343		16.19 411		8.00 203		—	11.75 298	—
	GS-6A-HD12	13.50 343		16.19 411		12.00 305		11.81 300	—	—
	GS-6A-CW12	13.50 343		16.19 411		12.00 305		—	11.75 298	—
	GS-12A-HD12 (N)	14.88 378		17.62 500		12.00 305		15.12 384	—	16.69 424
	GS-12A-CW12	14.88 378		17.62 500		12.00 305		—	14.38 365	—
	GS-12A-HD16	14.88 378		17.62 500		16.00 406	—	15.48 393	—	16.69 424
	GS-12A-CW20	14.88 378		17.62 500		—	20.00 508	—	14.38 365	—
12" 300mm	GS-6A-HD12 (N)	15.56 395		18.25 464		12.00 305		11.81 300	—	15.25 387
	GS-6A-CW12	15.56 395		18.25 464		12.00 305		—	11.75 298	—
	GS-12A-HD12 (N)	16.94 430		19.69 500		12.00 305		15.12 384	—	16.69 424
	GS-12A-CW12	16.94 430		19.69 500		12.00 305		—	14.38 365	—
	GS-12A-HD16	16.94 430		19.69 500		16.00 406	—	15.48 393	—	—
	GS-12A-HD20	16.94 430		19.69 500		—	20.00 508	15.48 393	—	—
	GS-12A-CW20	16.94 430		19.69 500		—	20.00 508	—	14.38 365	—
14" 350mm	GS-12A-HD12 (N)	18.25 464		21.00 533		12.00 305		19.12 460	—	19.69 500
	GS-12A-CW12	18.25 464		21.00 533		12.00 305		—	17.38 441	—
	GS-12A-HD16	18.25 464		21.00 533		16.00 406	—	19.50 470	—	—
	GS-12A-HD20	18.25 464		21.00 533		—	20.00 508	19.50 470	—	—
	GS-12A-CW20	18.25 464		21.00 533		—	20.00 508	—	17.38 441	—
	GS-12A-HD24	18.25 464		21.00 533		—	24.00 610	22.19 564	—	—
	GS-12A-CW24	18.25 464		21.00 533		—	24.00 610	—	17.38 441	—
16" 400mm	GS-12A-HD16 (N)	19.69 500		22.44 570		16.00 406	—	19.50 470	—	19.69 500
	GS-12A-HD20	19.69 500		22.44 570		—	20.00 508	19.50 470	—	—
	GS-12A-CW20	19.69 500		22.44 570		—	20.00 508	—	17.38 441	—
	GS-12A-HD24	19.69 500		22.44 570		—	24.00 610	22.19 564	—	—
	GS-12A-CW24	19.69 500		22.44 570		—	24.00 610	—	17.38 441	—
	MG-MJ56-HD12(N)	19.56 497		23.09 586		12.00 305		16.69 424	—	19.81 563
	MG-MJ50-CW12	19.56 497		23.09 586		12.00 305		—	16.31 414	—

3 PLUG VALVE DETAIL
N.T.S.

Fig. 264

Adjustable Pipe Saddle Support

Size Range: 2 1/2" through 36"
Material: Cast iron saddle, locknut nipple and special cast iron reducer, assembled.
Finish: Plain or Galvanized
Service: Stanchion type support where vertical adjustment of **stationary** pipe is required.
Approvals: Complies with Federal Specification A-A-1192A (Type 38), *WW-H-171-E (Type 39)*, ANSI/MSS SP-69 and MSS SP-58 (Type 38).
Installation: Adjustment is obtained by turning the locknut nipple. The lower end of the nipple is staked, upsetting the threads to prevent separation of nipple and coupling during adjustment.
Features:

- Vertical adjustment of approximately 4 1/2"
- Saddle supports a broad range of pipe sizes

Ordering: Specify pipe size to be supported, figure number, name and finish.
Order Separately: Figure 63T Square Cut Threaded End Stanchion. Specify "D" and pipe size to be supported by Figure 264.

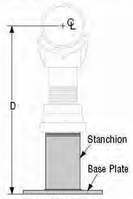


Fig. 63, Type T
Square Cut Threaded End for use with Figure 264 or 265 Adjustable Pipe Saddle Support

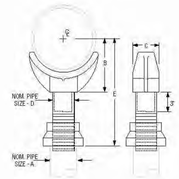
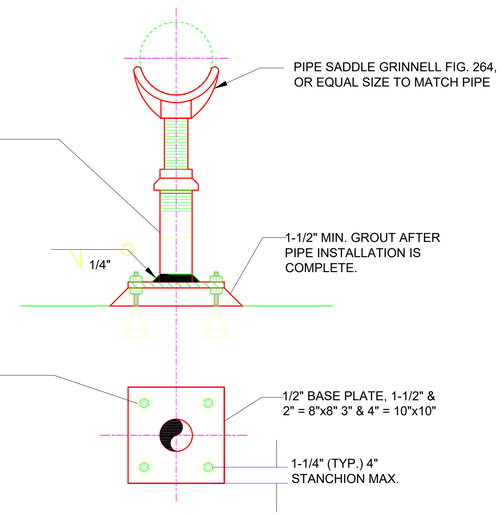


FIG. 264: LOADS (LBS) • WEIGHT (LBS) • DIMENSIONS (IN)

Pipe Size	Weight Complete	Weight Saddle Only	A	B	D	E Min	E Max	Width C	Max Load
2½	9.0	4.8	2½	3½	1½	8	13	3	1,800
3	9.2	5.0		3¾		8¼	13¼		
3½	9.4	5.2		4		8½	13½		
4	13.0	7.6	3	4¼	2½	9¼	14	3⅝	3,800
5	16.7	8.3		4⅝		10	14¼		
6	17.7	10.3		5⅛		10½	13¼		
8	20.2	12.8		6⅝		11¼	16½		
10	23.2	17.8		8⅛		13½	18¼		
12	29.0	21.6		9⅝		15	19½		
14	49.2	38.0	4	10⅝*	3	16¼	29½	4⅝	5,300
16	52.2	42.0		12⅝		17¼	22¼		6,700
18	70.8	51.0		13⅛		19¼	24		
20	104.8	83.0	6	13⅝	3½	21	23½	6¾	7,300
22	121.0	98.0		13⅞	4	21¼	23⅞		
24	137.0	110.0		17⅝*		23¼	28¼		
26	154.0	130.0		18½		24¼*	28⅞*		
28	170.0	150.0		21⅝		27	31½		
32	181.0	161.1		22⅛		28¼	32½	8¼	
36	249.0	229.0		24½		30¼	34½		

* The special cast iron reducer may be furnished with a hexed shaped smaller end.
* Standard Wall Pipe
The above load ratings are applicable to the saddle only and are not applicable to the stanchion or other means used to support the saddle.

2 PIPE SUPPPORT SPECIFICATIONS
N.T.S.



4 PIPE SUPPPORT DETAIL
N.T.S.

Notice of Extended Payment Provision

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TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

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7			

REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-3141 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

CIVIL DETAILS

JOHN WESLEY VOTE
NEW MEXICO
16920
LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET:
C-506

Plotted: 7/11/2024 3:03:06 PM, By:Mathiesen, Corbin
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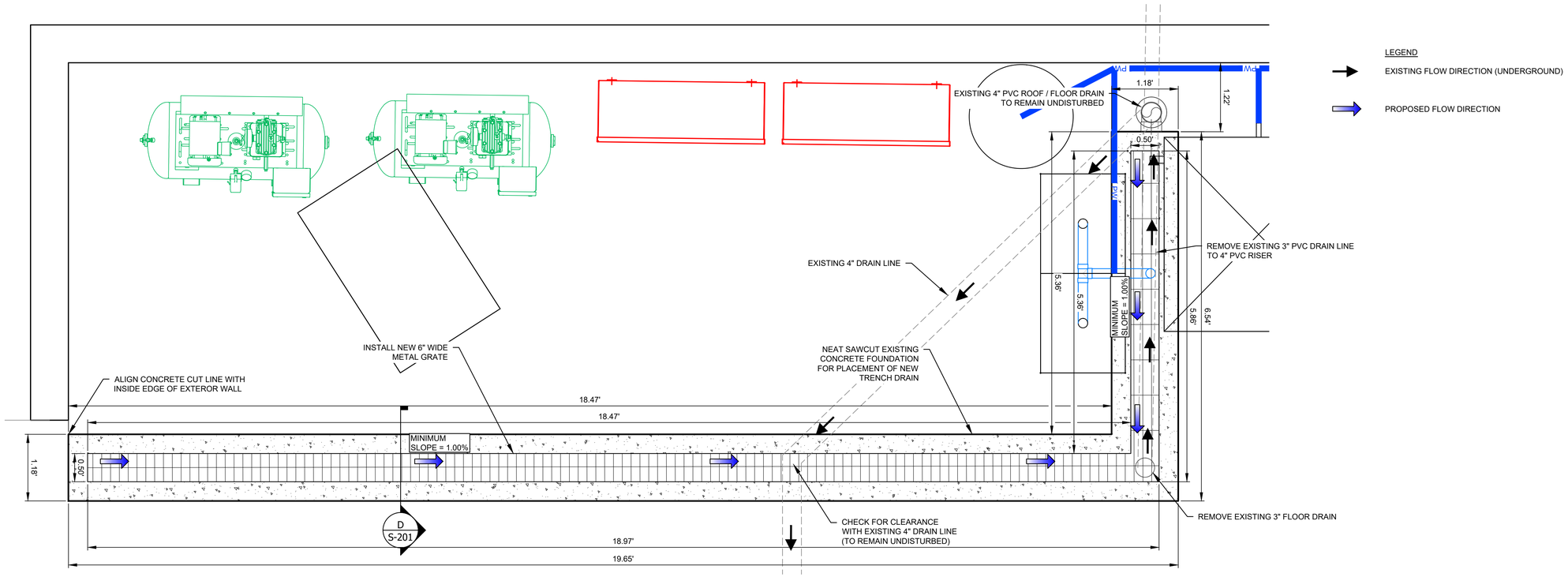

1 FLOOR TRENCH DRAIN DETAIL

Scale: 1" = 1'

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

nm811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

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NO.	DESCRIPTION	DATE	BY
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6			
5			
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3444 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

CIVIL DETAILS

JOHN WESLEY VOTE NEW MEXICO 16920 LICENSED PROFESSIONAL ENGINEER

MAY 10, 2024

PROJECT NO.	R316613.01
DESIGNED BY:	JWV
DRAWN BY:	CCM / LAB
CHECKED BY:	JWV
DATE:	MAY, 2024
DPW CHK:	

SHEET: C-507

Plotted: 7/12/2024 10:32:03 AM, By:Mathiesen, Corbin
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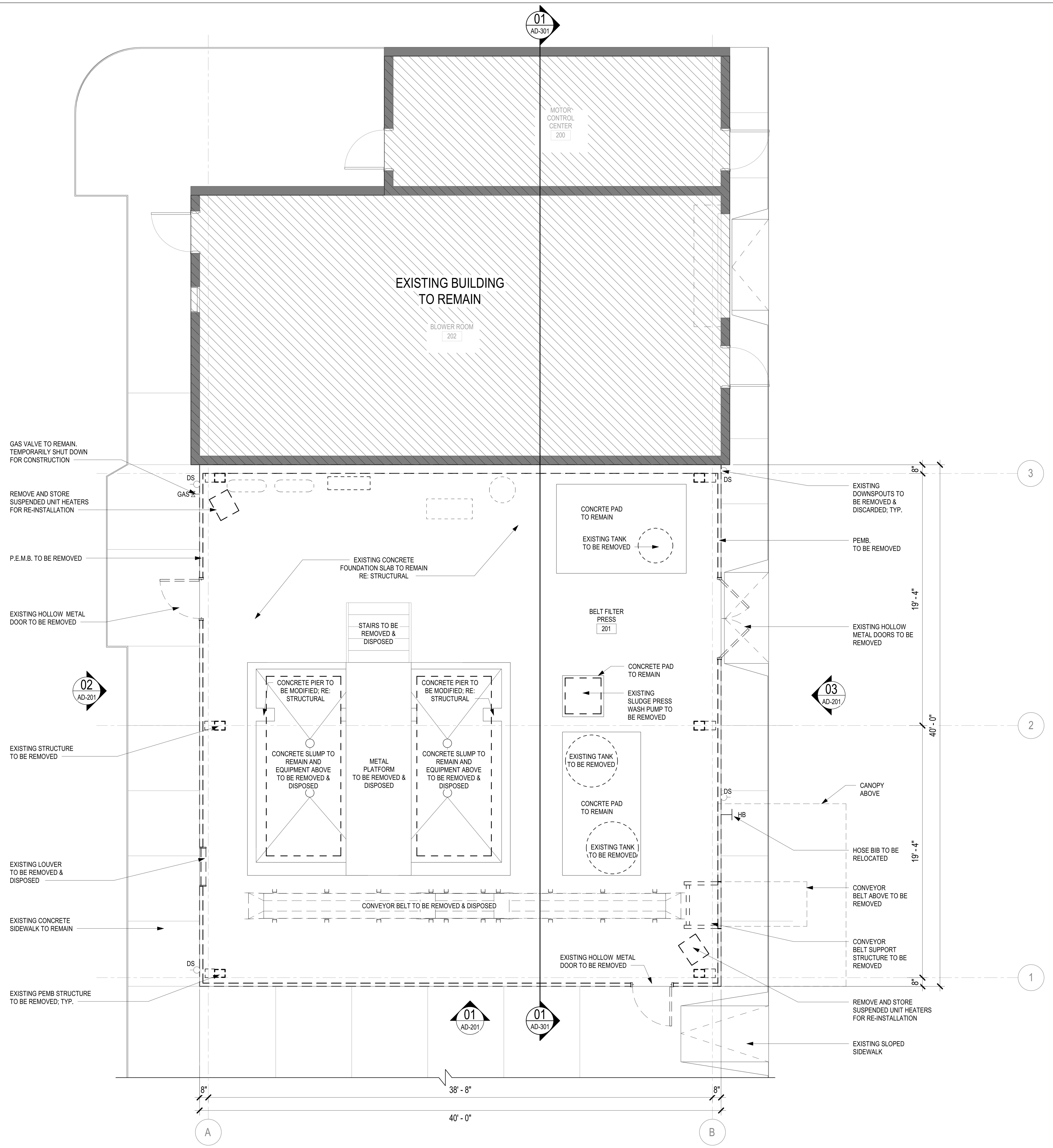
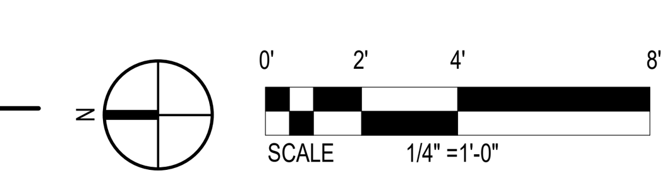


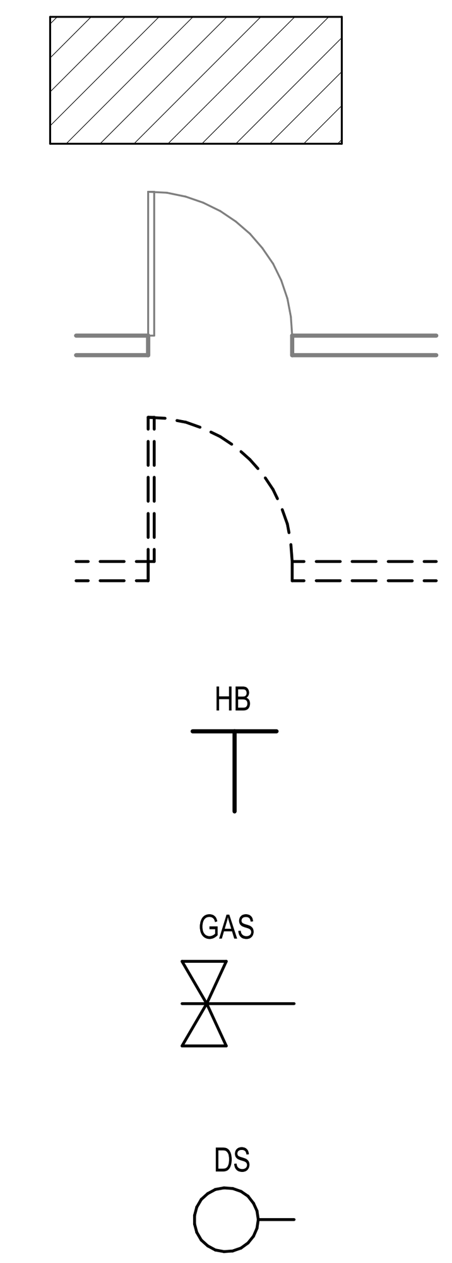
01 FLOOR PLAN - DEMOLITION
1/4" = 1'-0"



DEMO GENERAL NOTES

NOTE	DESCRIPTION
A.	GENERAL CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PRICING AND DEMOLITION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT.
B.	DASHED LINES INDICATE CONDITION TO BE DEMOLISHED/REMOVED UNLESS NOTED OTHERWISE. REFER TO EQUIPMENT DEMO LEGEND .
C.	ALL ITEMS TO BE REUSED SHOULD BE STORED IN A MANNER TO PREVENT DAMAGE WITHIN THE SPACE. IF DAMAGE OCCURS TO ITEMS EING STORED WITHIN THE SPACE, CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT CONTRACTOR'S EXPENSE. ANY UNUSED MATERIALS SHALL BE RETURNED TO THE BUILDING ENGINEER AND STORED AT THEIR DIRECTION.
D.	COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS PERTAINING TO SAFETY OR PERSONS, PROPERTY AND ENVIRONMENTAL PROTECTION.
E.	PROVIDE AND MAINTAIN BARRICADES, LIGHTING, AND GUARDRAILS AS REQUIRED BY APPLICABLE CODES AND REGULATIONS TO PROTECT OCCUPANTS OF BUILDING AND WORKERS.
F.	IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE AFFECTED AREAS TO NO COST OF THE OWNER.
G.	REMOVE FROM SITE DAILY AND LEGALLY DISPOSE OF REFUSE, DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS.
H.	REMOVE DESIGNATED PARTITIONS, COMPONENTS, BUILDING EQUIPMENT, AND FIXTURES AS REQUIRED FOR NEW WORK.
I.	PLUG AND ABANDON ALL EXISTING FLOOR PENETRATIONS NOT BEING UTILIZED IN PROJECT AREA. SLAB PLUGS MUST BE EQUAL OR EXCEED EXISTING SLAB FIRE RATING.
J.	SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DEMOLITION NOTES RELATED TO THOSE SYSTEMS. PLEASE NOTE: DEMOLISH CURRENT MECHANICAL SYSTEM AS NECESSARY.
K.	REMOVE EXISTING ELECTRICAL CEILING FIXTURES AS NEEDED; RE: ELECTRICAL.
L.	PATCH & REPAIR ALL EXISTING DAMAGED CONCRETE FLOORING THROUGHOUT THE LIMITS OF WORK.
M.	EXISTING CONCRETE FOUNDATION SLAB TO REMAIN.

FLOOR PLAN LEGEND



NO WORK IN THIS AREA

EXISTING TO REMAIN

EXISTING TO BE REMOVED

HB
HOSE BIB

GAS
GAS VALVE

DS
DOWNSPOUT

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			

REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259

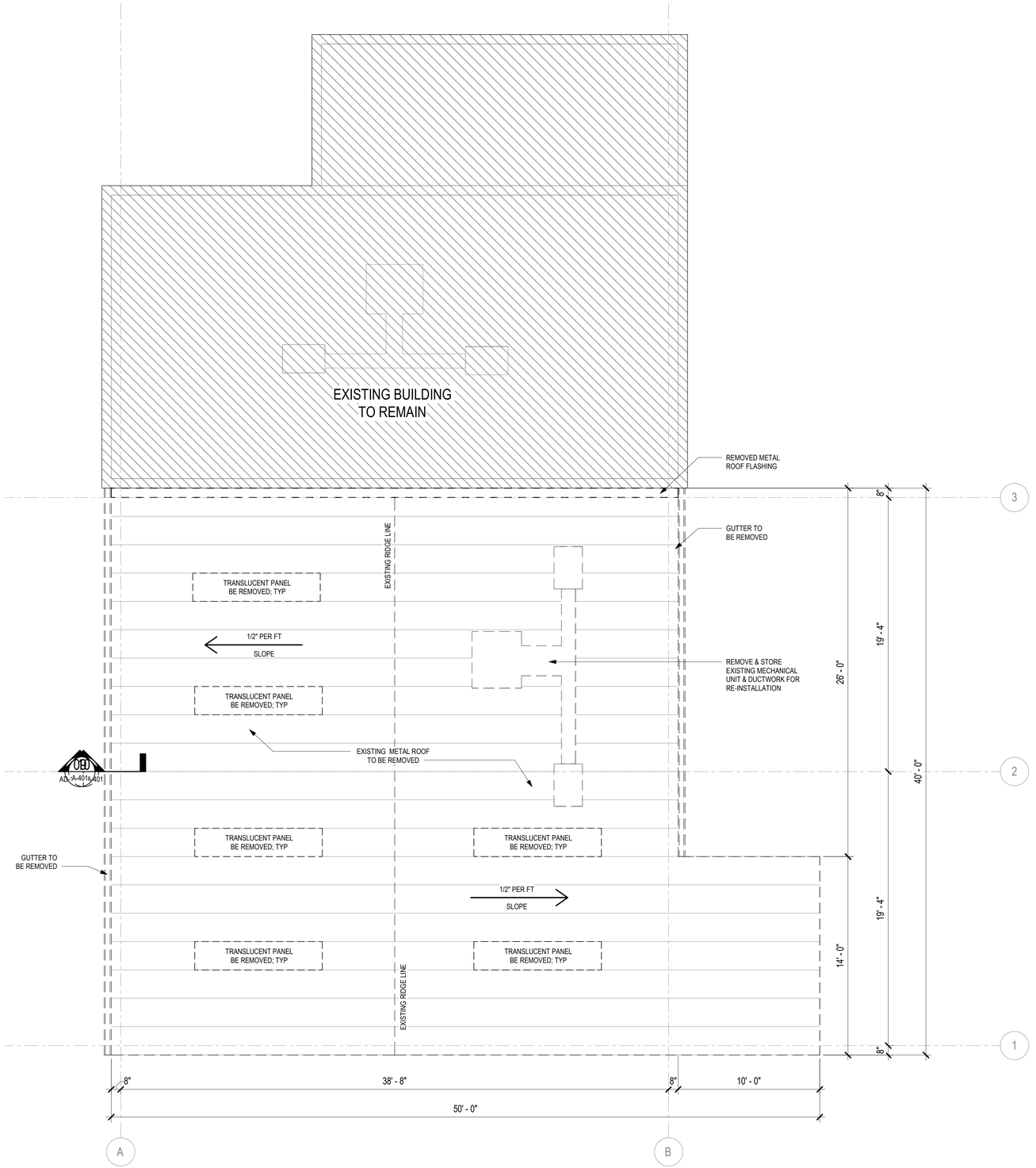
Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

FLOOR PLAN DEMOLITION

STATE OF NEW MEXICO
LAWRENCE D. McDONALD
No. 4238
REGISTERED ARCHITECT
05/09/2024

PROJECT NO.	R316613.01
DESIGNED BY:	LH
DRAWN BY:	MRS
CHECKED BY:	LMD
DATE:	MAY 10, 2024
DPW CHK:	
SHEET	AD-101



01 ROOF DEMOLITION
1/4" = 1'-0"

N

0' 2' 4' 8'
SCALE 1/4" = 1'-0"

DEMO GENERAL NOTES

NOTE	DESCRIPTION
A.	GENERAL CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PRICING AND DEMOLITION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT.
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M.	EXISTING CONCRETE FOUNDATION SLAB TO REMAIN.

DEMO ROOF PLAN LEGEND

NO WORK IN THIS AREA

EXISTING TO REMAIN

EXISTING TO BE REMOVED

Notice of Extended Payment Provision

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NO.	DESCRIPTION	DATE	BY
7			
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333 Rio Rancho Drive NE, Suite 101
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Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ROOF PLAN DEMOLITION

STATE OF NEW MEXICO
LAWRENCE D McDONALD
No. 4238
REGISTERED ARCHITECT
05/09/2024

PROJECT NO.	R316613.01
DESIGNED BY:	LH
DRAWN BY:	MRS
CHECKED BY:	LMD
DATE:	MAY 10, 2024
DPW CHK:	

SHEET
AD-102

Plotted: 7/29/2019 7:59:46 AM, By:Rachel-Siller, Marco Antonio
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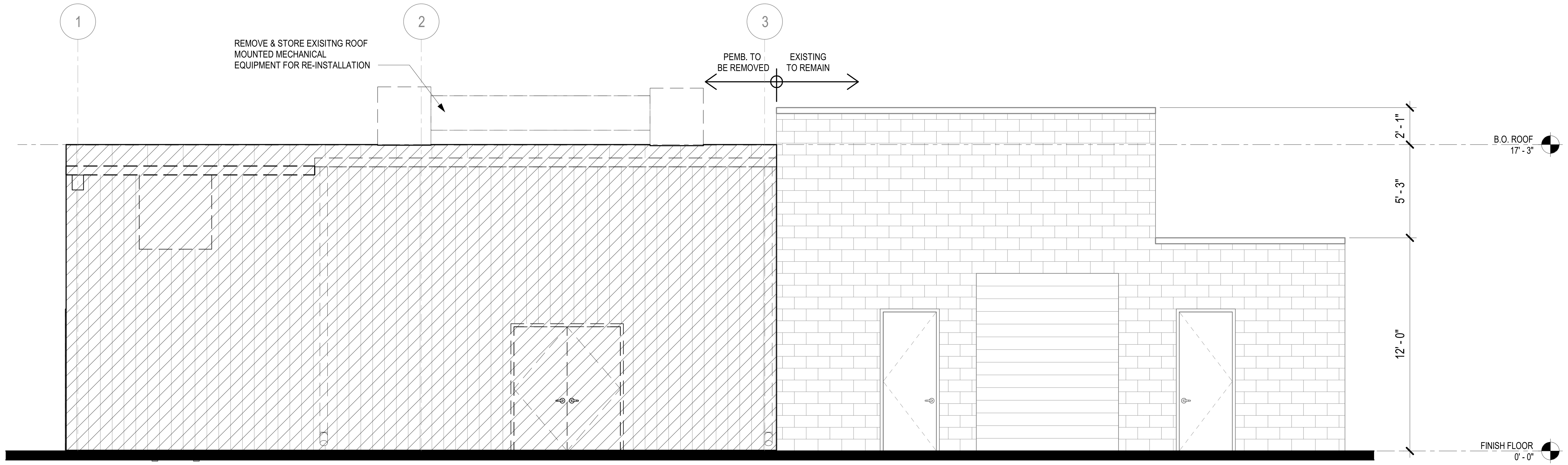
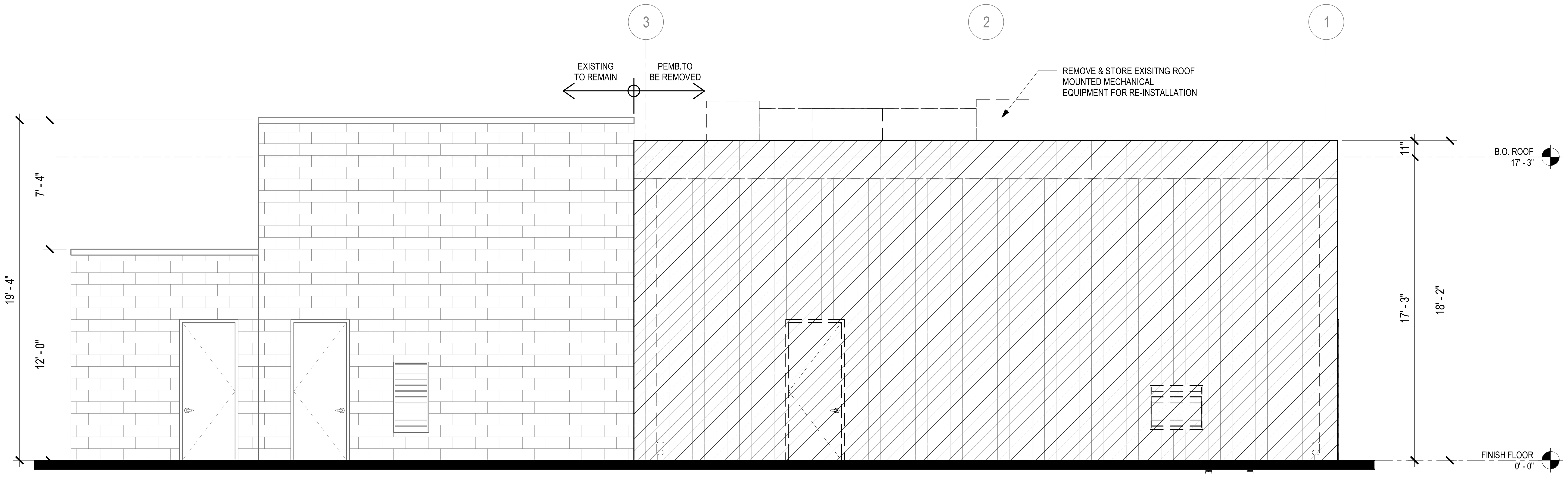


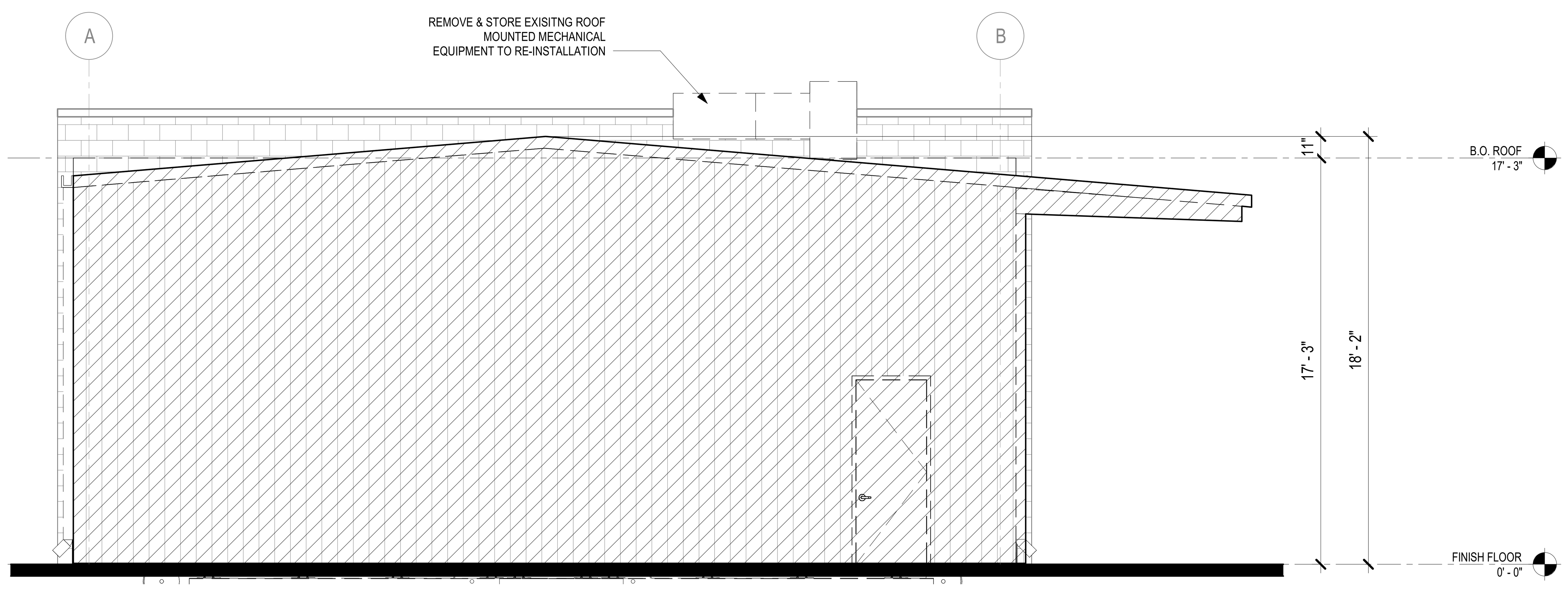
03 DEMOLITION ELEVATION - NORTH

1/4" = 1'-0"



02 DEMOLITION ELEVATION - SOUTH

1/4" = 1'-0"



01 DEMOLITION ELEVATION - WEST

1/4" = 1'-0"

0' 2' 4' 8'

SCALE 1/4" =1'-0"

DEMO GENERAL NOTES

NOTE	DESCRIPTION
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M.	EXISTING CONCRETE FOUNDATION SLAB TO REMAIN.

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CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ELEVATIONS DEMOLITION

STATE OF NEW MEXICO REGISTERED ARCHITECT
LAWRENCE D. McDONALD
No. 4238
05/09/2024

PROJECT NO.	R316613.01
DESIGNED BY:	LH
DRAWN BY:	MRS
CHECKED BY:	LMD
DATE:	MAY 10, 2024
DPW CHK:	
SHEET	AD-201

DEMO GENERAL NOTES

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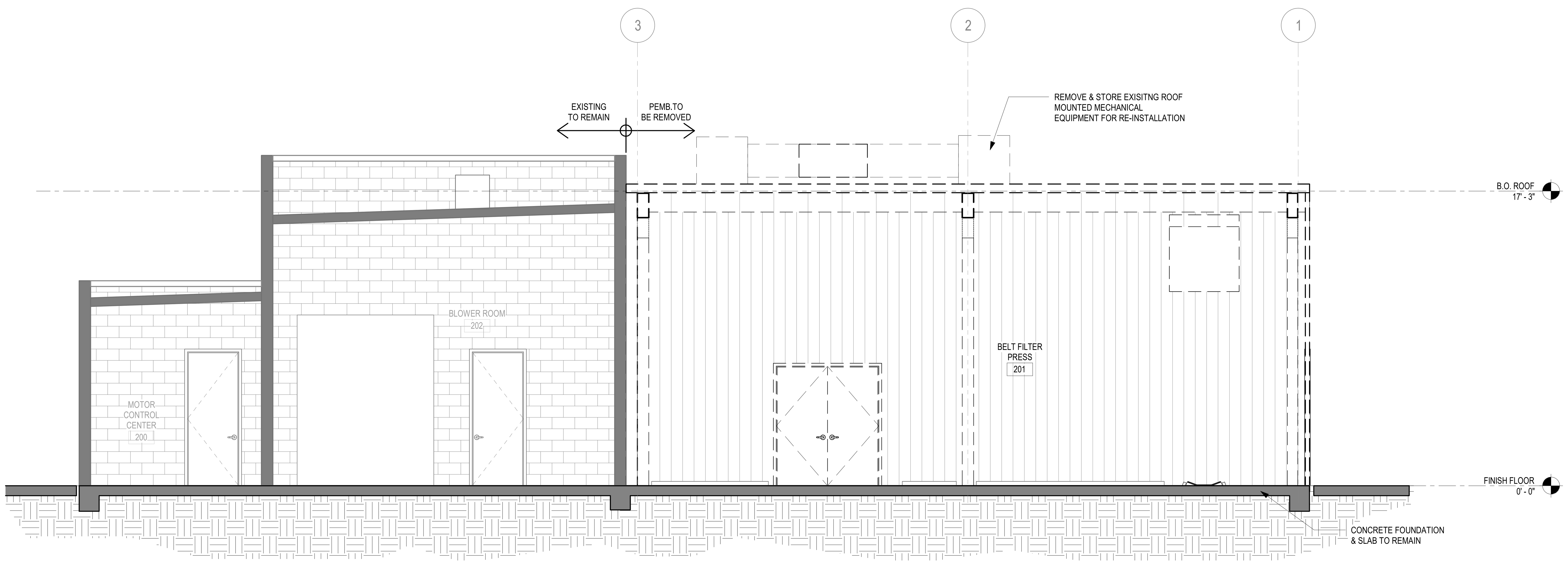

01 BUILDING SECTION - DEMOLITION

1/4" = 1'-0"

0' 2' 4' 8'
SCALE 1/4" =1'-0"

Notice of Extended Payment Provision

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nm811 Know what's below. Call before you dig. TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

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REVISIONS (OR CHANGE NOTICES)

Designed By:
HZ HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

BUILDING SECTION
DEMOLITION

STATE OF NEW MEXICO REGISTERED ARCHITECT
LAWRENCE D. McDONALD
No. 4238
05/09/2024

PROJECT NO.	R316613.01
DESIGNED BY:	LH
DRAWN BY:	MRS
CHECKED BY:	LMD
DATE:	MAY 10, 2024
DPW CHK:	
SHEET	AD-301

Plotted: 7/26/2019 7:59:46 AM, By:Rochel-Siller, Marco Antonio
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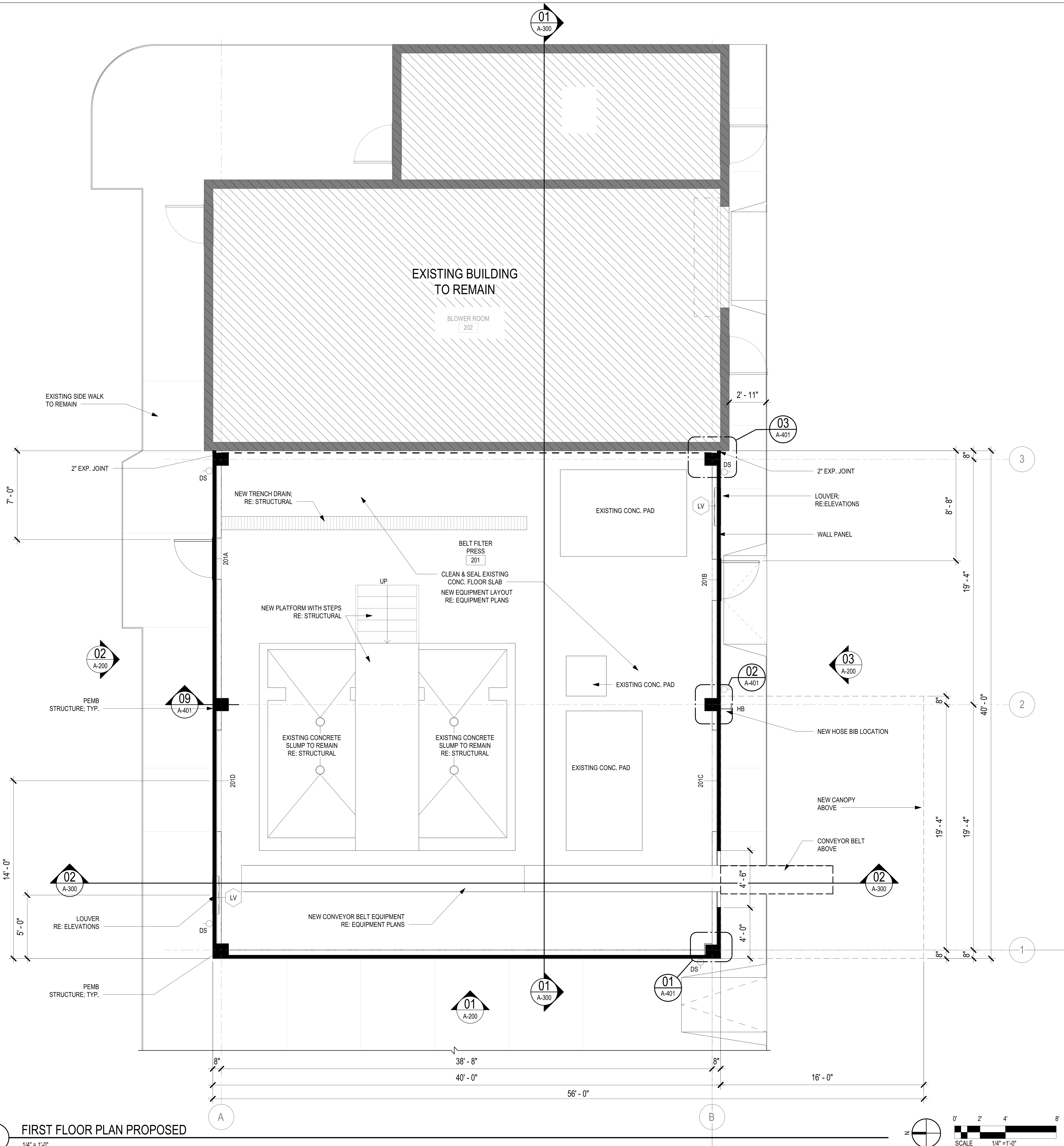

01 FIRST FLOOR PLAN PROPOSED

1/4" = 1'-0"

SCALE 1/4" =1'-0"

FLOOR PLAN GENERAL NOTES

NOTE	DESCRIPTION
A.	ALL WALL PARTITIONS TO BE TYPE B2 PARTITION UNLESS OTHERWISE NOTED.
B.	METAL HANGAR STRUCTURE TO BE PRE-ENGINEERED. RE: STRUCTURAL. COLOR SELECTION TO BE COORDINATED WITH OWNER.
C.	WALL BLOCKING TO BE PROVIDED IN ADJACENT WALLS FOR ANCHORAGE OF MODULAR FURNISHINGS AND GRAB BARS.
D.	INSTALL CORNER GUARDS AT ALL 90 DEGREE INTERIOR WALL INTERSECTIONS. RE: CG DESIGNATION ON FLOOR PLANS.
E.	PROVIDE AND INSTALL ALUMINUM KNOX BOX 3200 SERIES WITH RECESSED MOUNTING (OR EQUAL) MOUNT AT 48" ABOVE FINISH SLAB/GRADE. INSTALL BOX IN STRICT ACCORDANCE WITH DIRECTION FROM AHJ.
F.	ALL FURNITURE AND WORKSTATIONS SHOWN AS DASHED BY OWNER, NIC.
G.	PROVIDE POWER FOR DOOR ACCESS CARD READER INSTALLATION. RE: FLOOR PLAN AND DOOR SCHEDULE FOR CARD READERS (CR) LOCATIONS.

CITY OF SOCORRO

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HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO WASTEWATER TREATMENT PLANT BELT FILTER PRESS REPLACEMENT

FLOOR PLAN

STATE OF NEW MEXICO
LAWRENCE D. McDONALD
No. 4238
REGISTERED ARCHITECT
05/09/2024

Notice of Extended Payment Provision

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PROJECT NO.	R316613.01
DESIGNED BY:	LH
DRAWN BY:	MRS
CHECKED BY:	LMD
DATE:	MAY 10, 2024
DPW CHK:	
SHEET	A-101

Plotted: 7/26/2019 7:59:46 AM, By:Rochel-Siller, Marco Antonio
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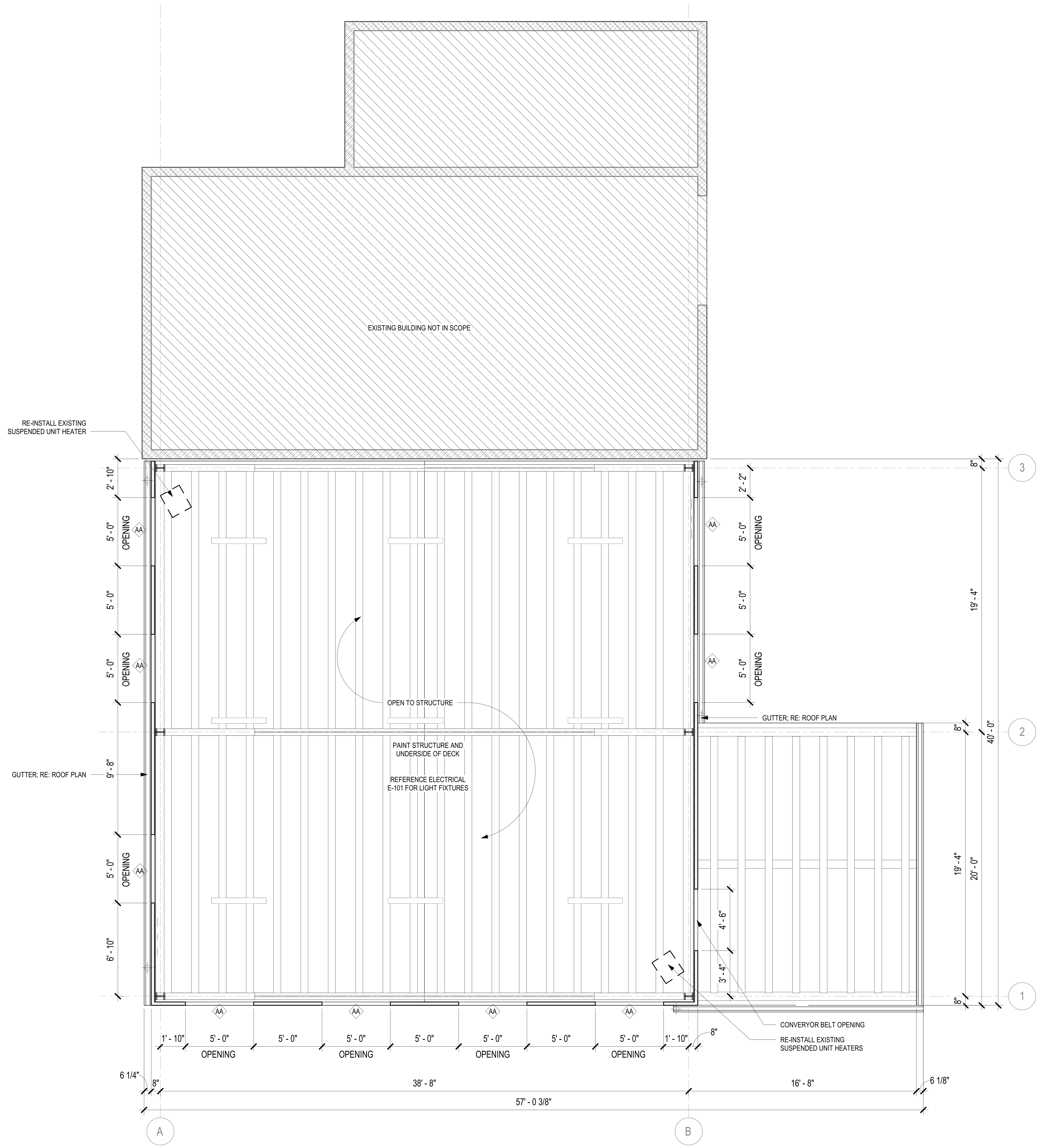

01 REFLECTED CEILING PLAN

1/4" = 1'-0"

SCALE 1/4" = 1'-0"

CEILING PLAN NOTES

NOTE	DESCRIPTION
A.	ALL CEILINGS ARE AT x'-x" A.F.F., U.N.O.
B.	ALL GYP. BD. FURR DOWNS ARE AT x'-x" A.F.F., U.N.O.
C.	NO ACOUSTICAL TILE CEILING PANELS LESS THAN 6" IN WIDTH. REVIEW ALL POTENTIAL CONDITIONS PRIOR TO GRID INSTALLATION
D.	COORDINATE WITH SUBCONTRACTORS REGARDING SECURITY, FIRE SPRINKLERS, LIGHTING, AND MECHANICAL PRIOR TO INSTALLATION OF GRID

CEILING PLAN LEGEND

SYMBOL	DESCRIPTION
OPEN	OPEN TO STRUCTURE ABOVE
(strip light symbol)	STRIP LIGHT FIXTURE - SUSPENDED/SURFACE

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1			
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HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
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Designed For:
CITY OF SOCORRO

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WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

REFLECTED CEILING PLAN

STATE OF NEW MEXICO
LAWRENCE D. McDONALD
No. 4238
REGISTERED ARCHITECT
05/09/2024

PROJECT NO.	R316613.01
DESIGNED BY:	LH
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DATE:	MAY 10, 2024
DPW CHK:	
SHEET	A-102

Notice of Extended Payment Provision

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Plotted: 7/26/2019 7:59:46 AM, By:Rochel-Siller, Marco Antonio
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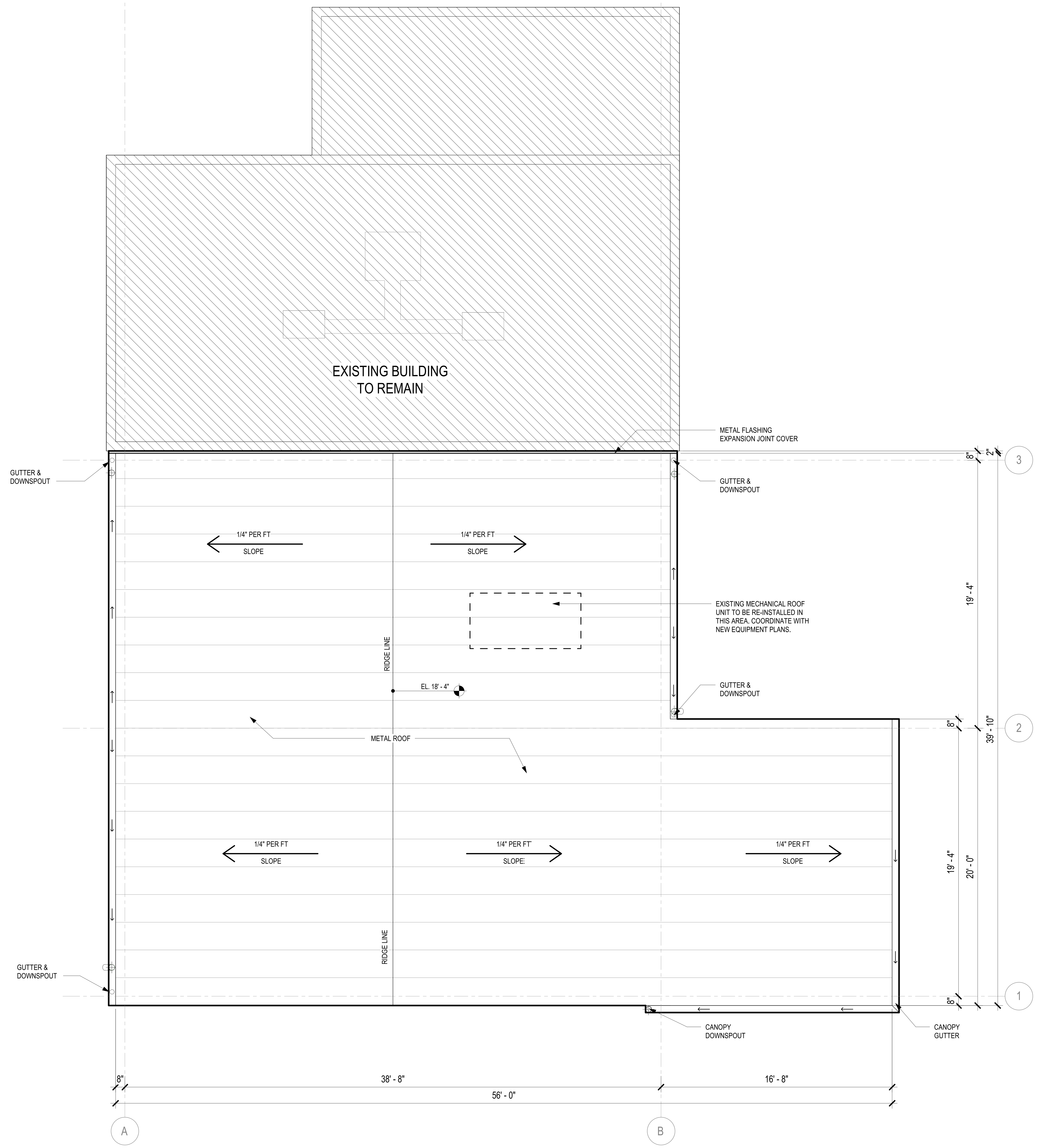

01 ROOF PLAN - PROPOSED
1/4" = 1'-0"

N

0' 2' 4' 8'
SCALE 1/4" = 1'-0"

Notice of Extended Payment Provision

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nm811
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Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ROOF PLAN

STATE OF NEW MEXICO
LAWRENCE D. McDONALD
No. 4238
REGISTERED ARCHITECT
05/09/2024

PROJECT NO.	R316613.01
DESIGNED BY:	LH
DRAWN BY:	MRS
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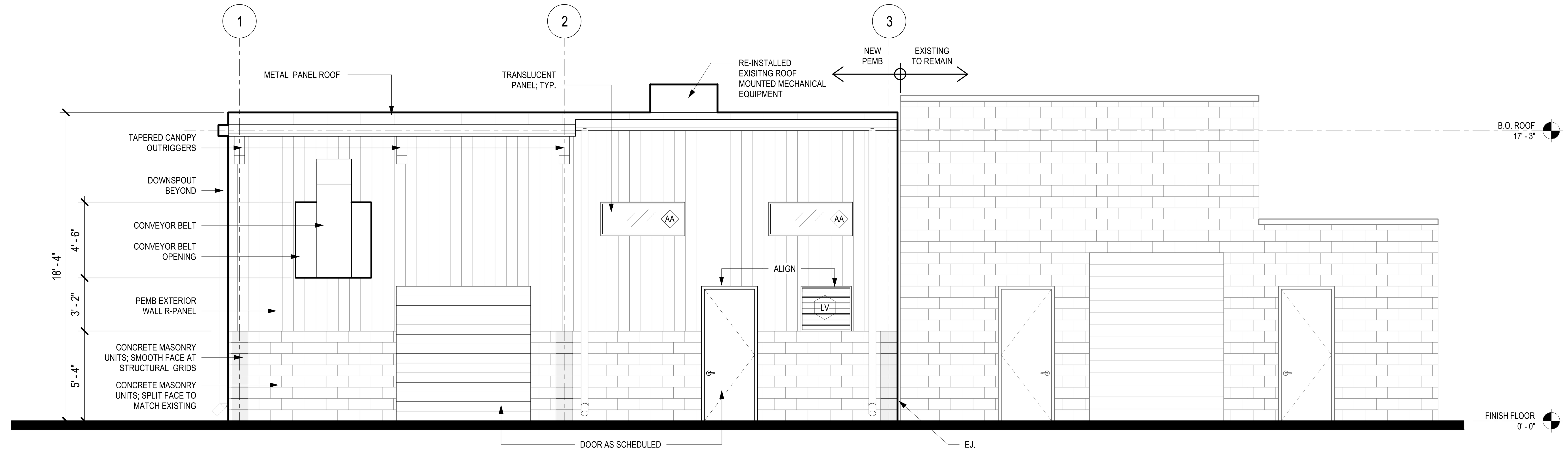
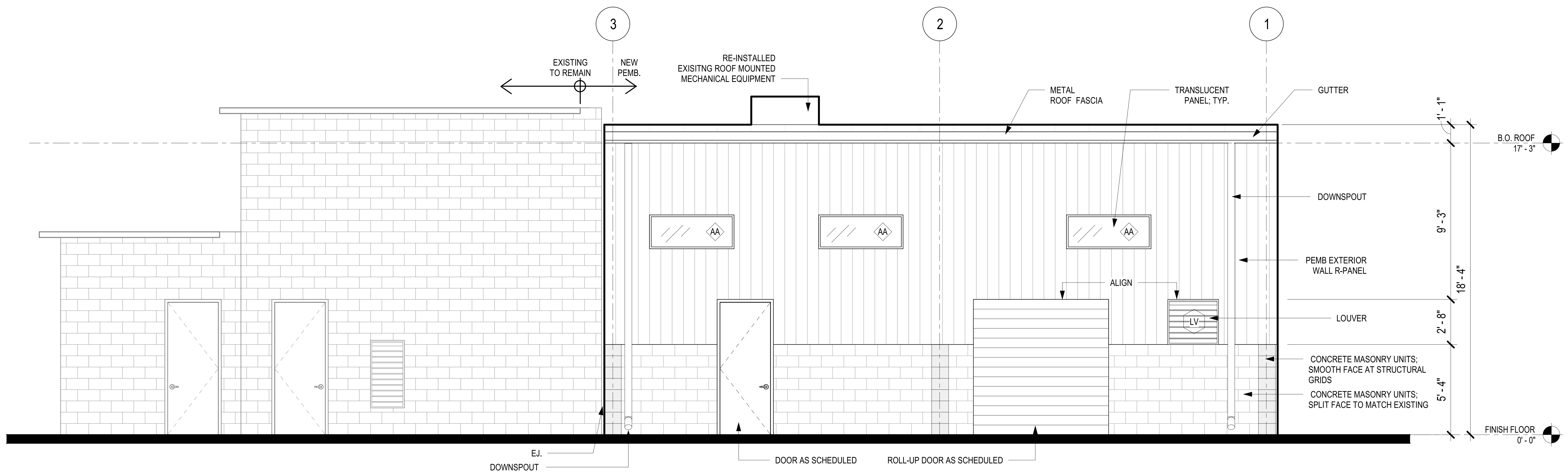
DATE:	MAY 10, 2024
DPW CHK:	

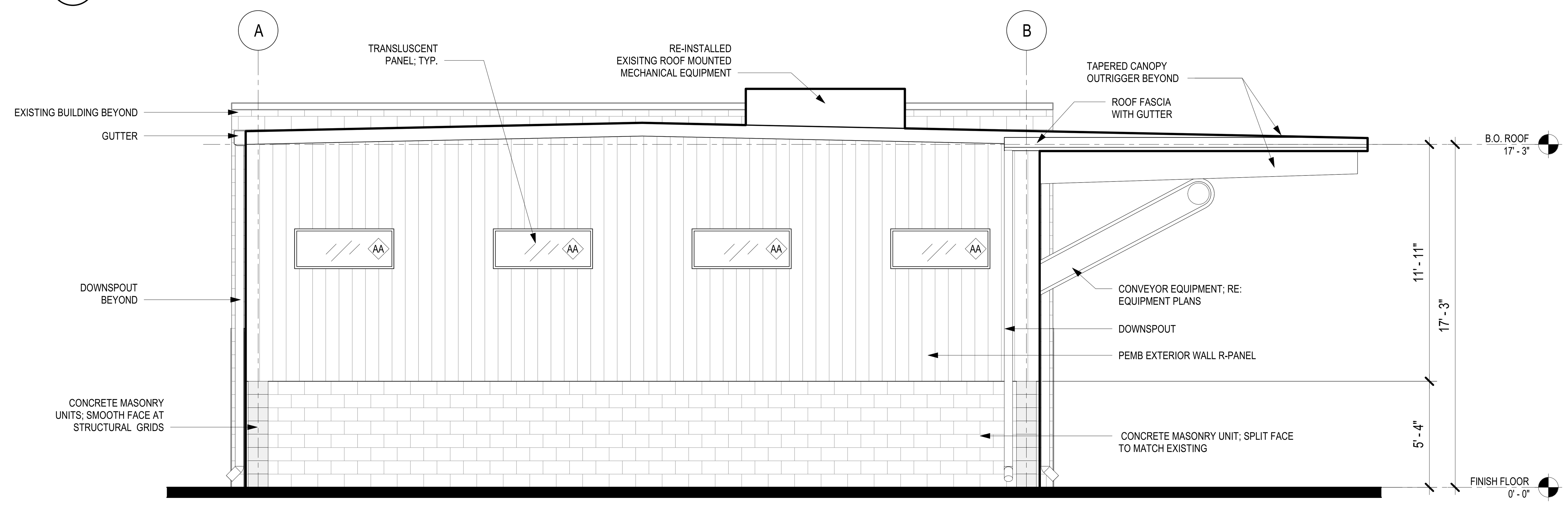
SHEET
A-103



03 NEW ELEVATION - NORTH
1/4" = 1'-0"



02 NEW ELEVATION - SOUTH
1/4" = 1'-0"



01 NEW ELEVATION - WEST
1/4" = 1'-0"

0' 2' 4' 8'
SCALE 1/4" =1'-0"

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Designed For:
CITY OF SOCORRO

CITY OF SOCORRO WASTEWATER TREATMENT PLANT BELT FILTER PRESS REPLACEMENT

ELEVATIONS

STATE OF NEW MEXICO
LAWRENCE D. McDONALD
No. 4238
REGISTERED ARCHITECT
05/09/2024

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DRAWN BY:	MRS
CHECKED BY:	LMD
DATE:	MAY 10, 2024
DPW CHK:	
SHEET	A-200

Plotted: 7/26/2019 7:59:46 AM, By:Rochel-Siller, Marco Antonio
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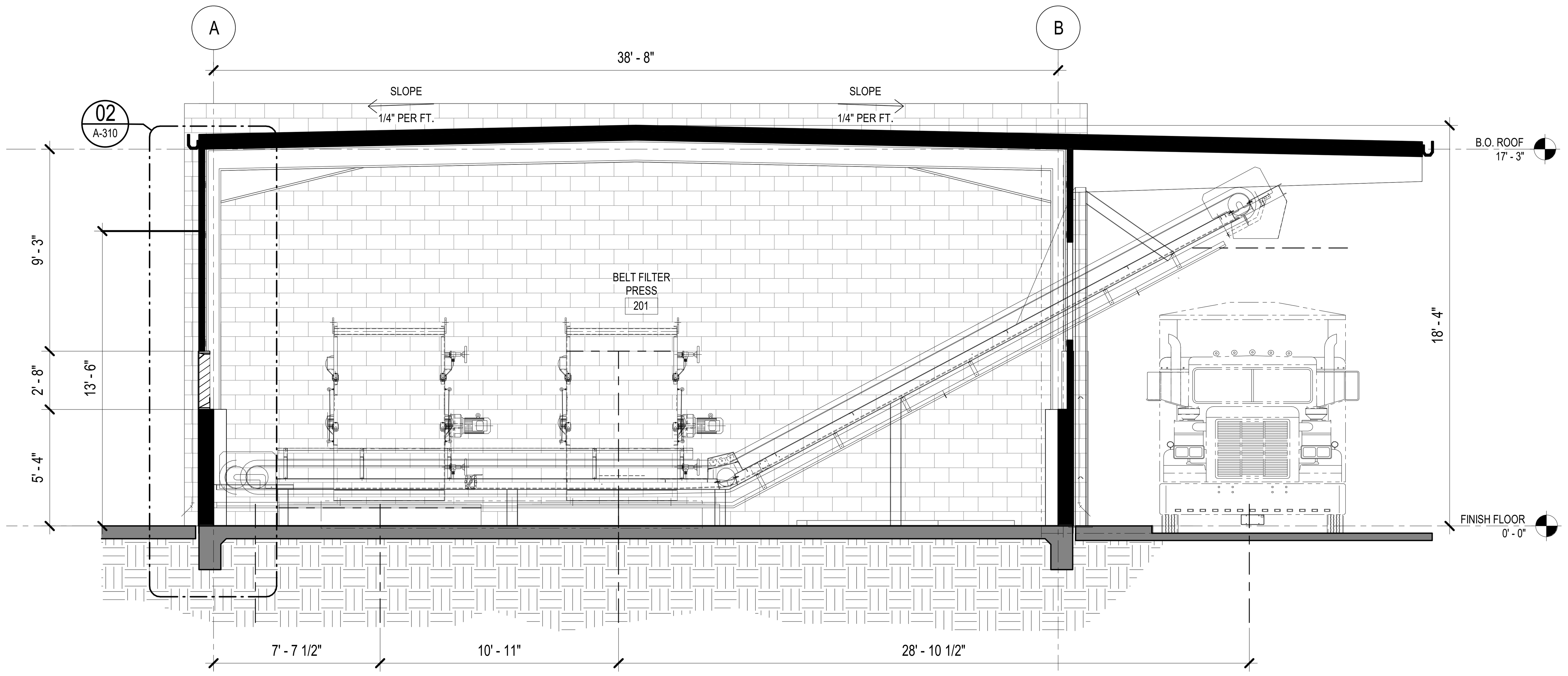
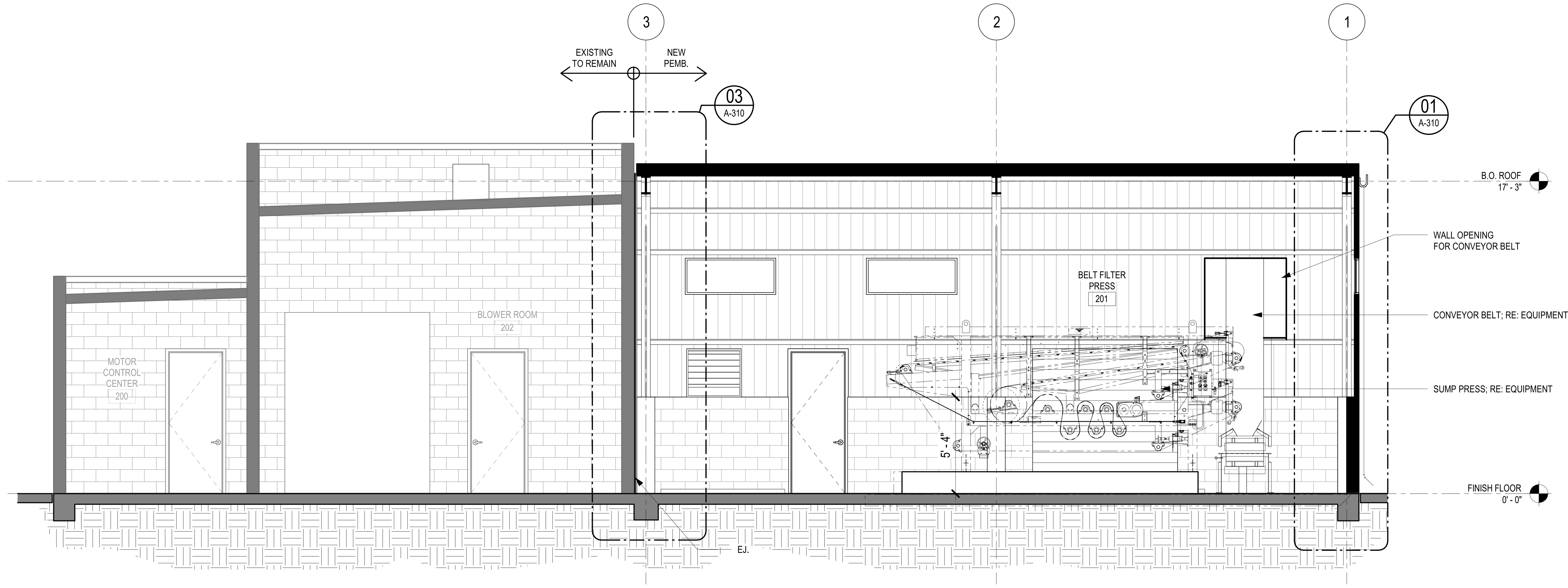


02 BUILDING SECTION - 01 - AREA A

1/4" = 1'-0"



01 BUILDING SECTION - 02 - AREA A

1/4" = 1'-0"

0' 2' 4' 8'
SCALE 1/4" = 1'-0"

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1	REVISIONS (OR CHANGE NOTICES)		
2			
3			
4			
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7			

Designed By:
HZ HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO WASTEWATER TREATMENT PLANT BELT FILTER PRESS REPLACEMENT

BUILDING SECTIONS

STATE OF NEW MEXICO
LAWRENCE D. McDONALD
No. 4238
REGISTERED ARCHITECT
05/09/2024

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

PROJECT NO.	R316613.01
DESIGNED BY:	LH
DRAWN BY:	MRS
CHECKED BY:	LMD
DATE:	MAY 10, 2024
DPW CHK:	

SHEET
A-300

Plotted: 7/26/2019 7:59:46 AM, By:Rochel-Siller, Marco Antonio
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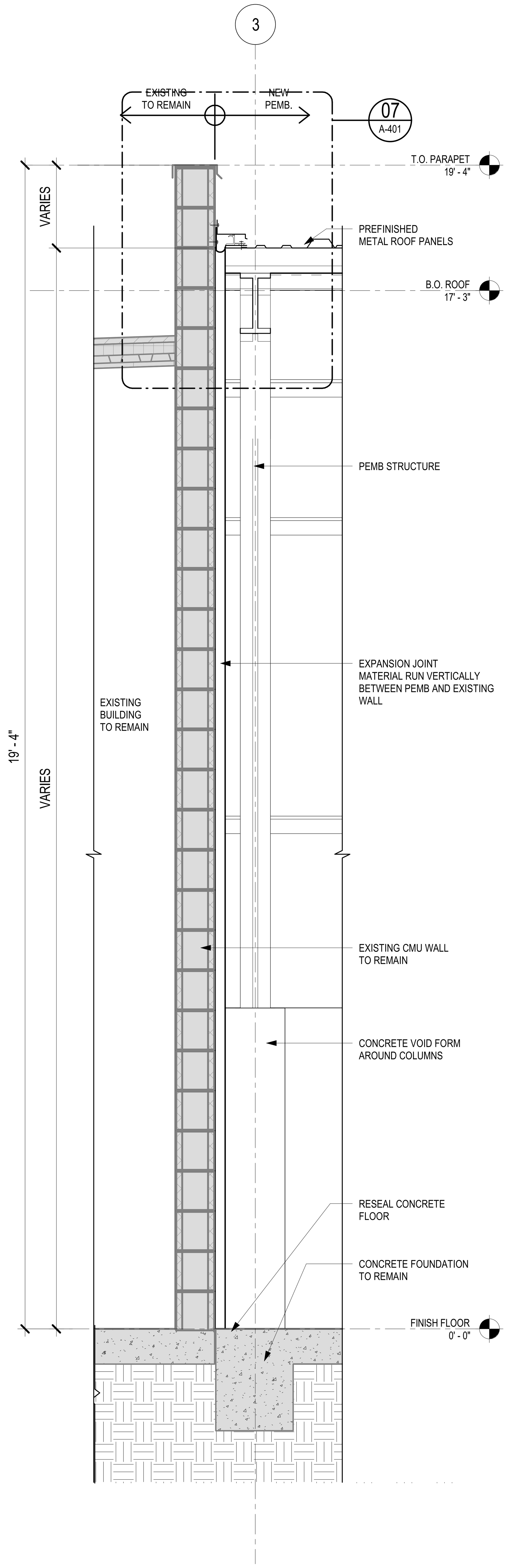
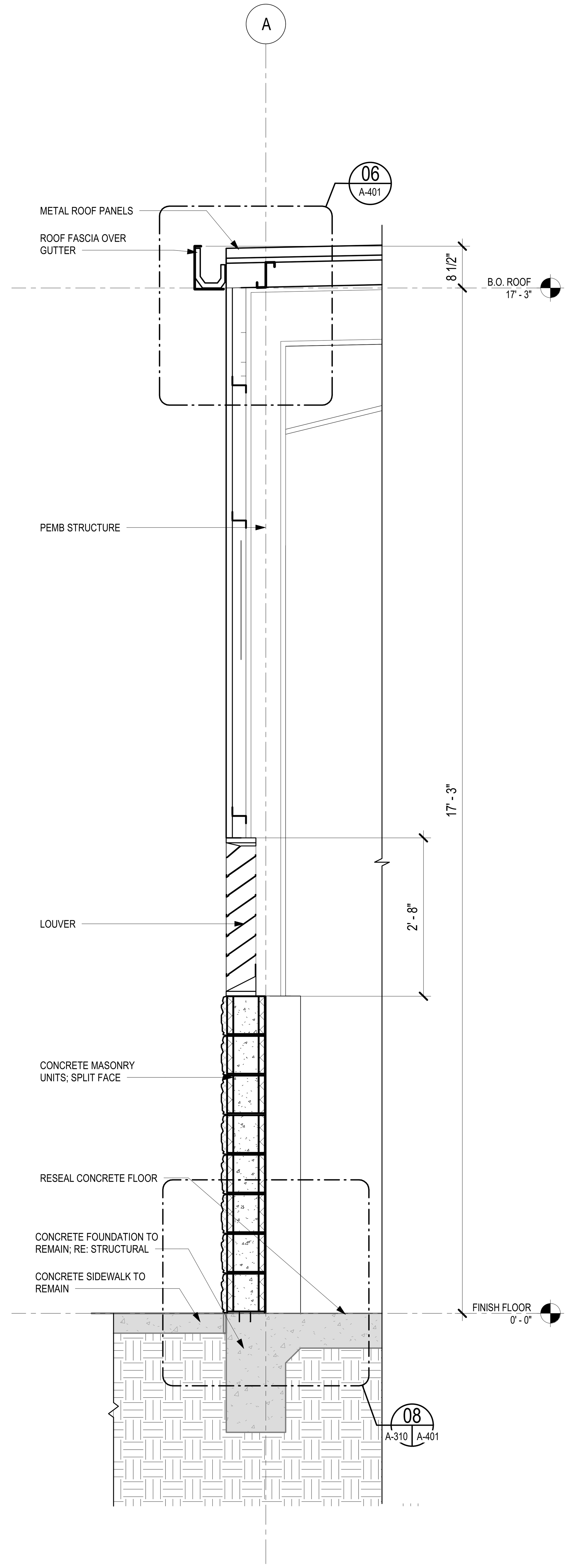
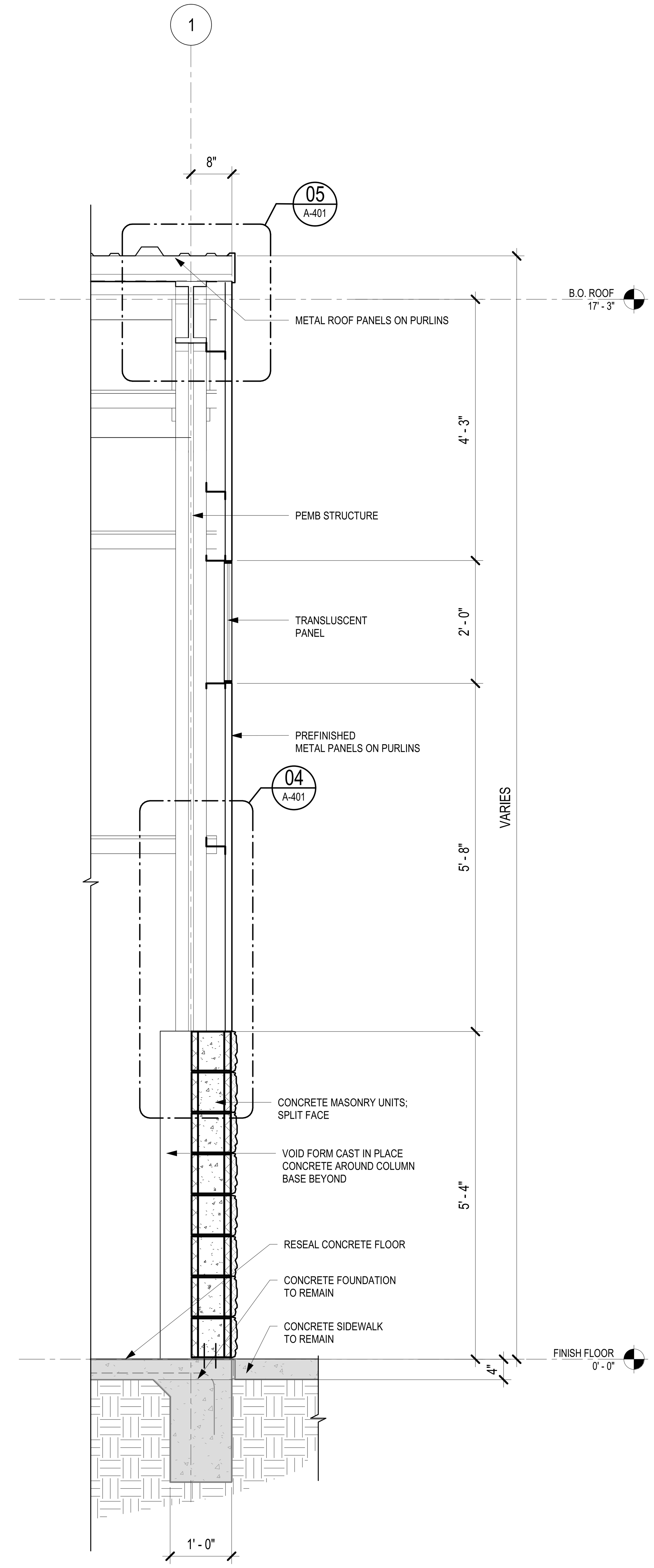


03 WALL SECTION - EXPANSION JOINT
3/4" = 1'-0"



02 WALL SECTION - LOUVER
NTS



01 WALL SECTION - WINDOW
3/4" = 1'-0"

0' 2' 4' 8'
SCALE 1/4" =1'-0"

Notice of Extended Payment Provision

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nm811 Know what's below. Call before you dig. TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1			
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REVISIONS (OR CHANGE NOTICES)

Designed By:
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333 Rio Rancho Drive NE, Suite 101
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Phone (505) 892-5141 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

WALL SECTIONS

STATE OF NEW MEXICO
LAWRENCE D. McDONALD
No. 4238
REGISTERED ARCHITECT
05/09/2024

PROJECT NO.	R316613.01
DESIGNED BY:	LH
DRAWN BY:	MRS
CHECKED BY:	LMD
DATE:	MAY 10, 2024
DPW CHK:	

SHEET
A-310

Plotted: 7/26/2019 7:59:46 AM, By:Rochel-Siller, Marco Antonio
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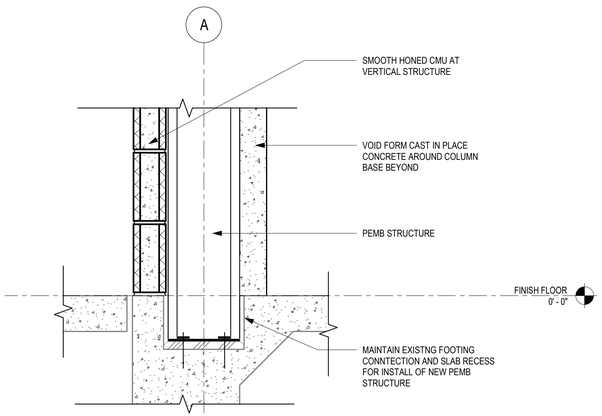
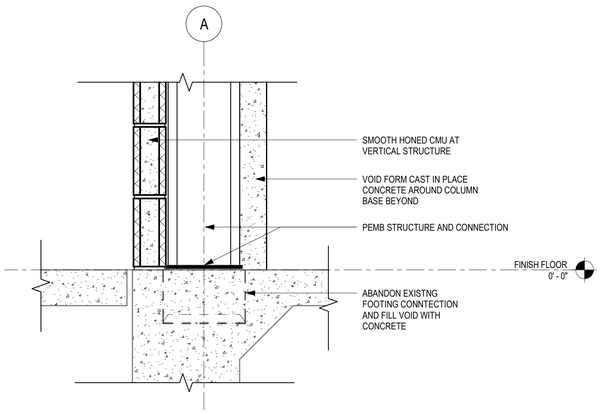
Last Saved:12/21/2023 9:24:57 AM, mrochel-siller

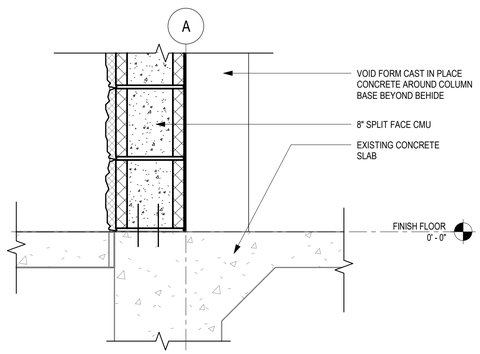
SECTIONAL DETAILS



10 SECTION DETAIL - ALTERNATE AT COLUMN
1 1/2" = 1'-0"

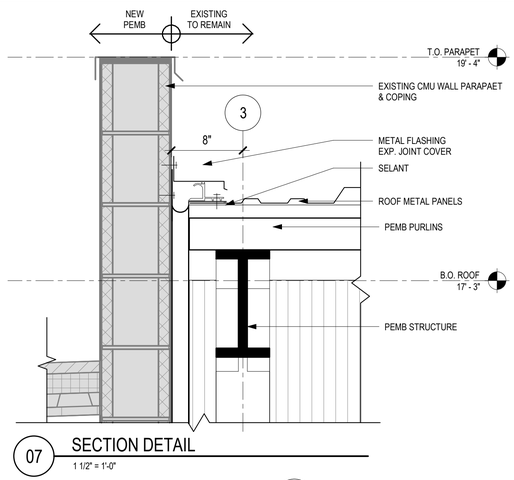


09 SECTION DETAIL - TYP. AT COLUMN
1 1/2" = 1'-0"

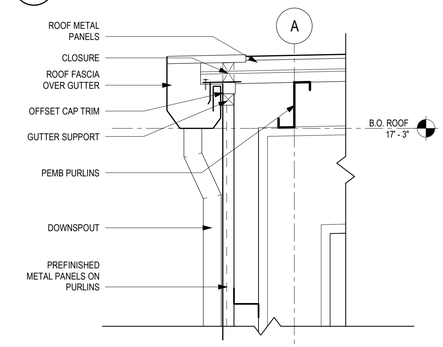


08 SECTION DETAIL - TYP. AT CMU
1 1/2" = 1'-0"

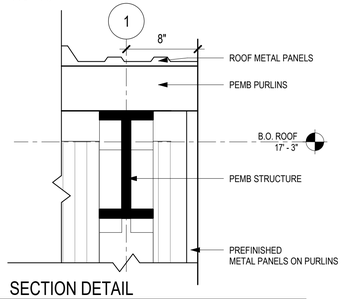
SECTIONAL DETAILS



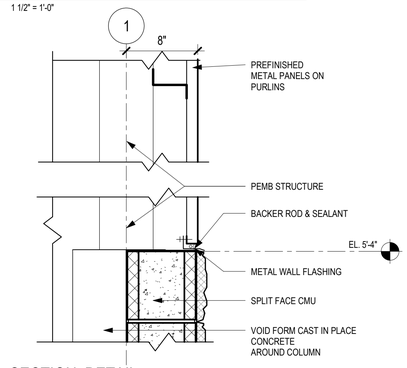
07 SECTION DETAIL
1 1/2" = 1'-0"



06 SECTION DETAIL
1 1/2" = 1'-0"

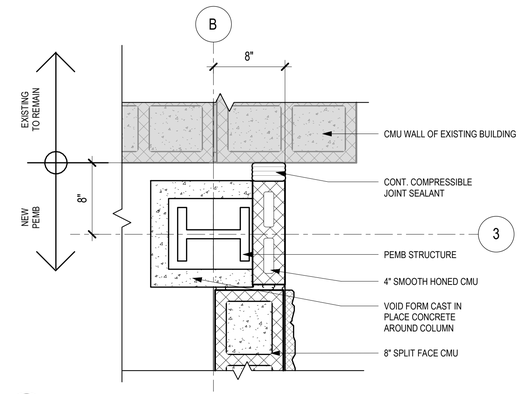


05 SECTION DETAIL
1 1/2" = 1'-0"

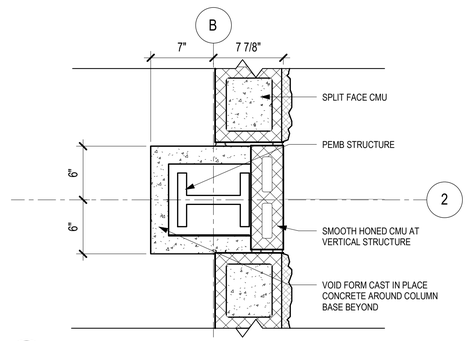


04 SECTION DETAIL
1 1/2" = 1'-0"

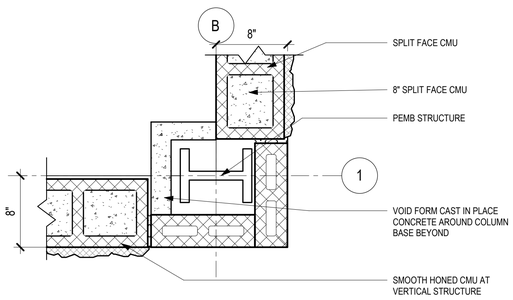
PLAN DETAILS



03 PLAN DETAIL
1 1/2" = 1'-0"



02 PLAN DETAIL
1 1/2" = 1'-0"



01 PLAN DETAIL
1 1/2" = 1'-0"

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
7			
6			
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4			
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2			
1	REVISIONS (OR CHANGE NOTICES)		

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

PLAN & SECTION DETAILS

STATE OF NEW MEXICO
REGISTERED ARCHITECT
LAWRENCE D. McDONALD
No. 4238
05/09/2024

PROJECT NO.	R316613.01
DESIGNED BY:	LH
DRAWN BY:	MRS
CHECKED BY:	LMD
DATE:	MAY 10, 2024
DPW CHK:	

SHEET
A-401

Notice of Extended Payment Provision

This contract allows the owner to make payment within 45 days after submission of an undisputed request for payment.

nm811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

Plotted: 7/29/2019 7:59:46 AM, By:Rocher-Siller, Marco Antonio
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Last Saved 7/25/2019 8:24:12 AM, mrocher-siller

DOOR SCHEDULE

MARK	ROOM NAME	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THK	DOOR MATL	DOOR ELEV	DOOR FINISH	FRAME MATL	FRAME ELEV	FRAME FINISH	HW SET	COMMENTS
201A	BELT FILTER PRESS	3' - 0"	7' - 10"	1 3/4"	HM	F	PT-1	HM	1	PT-1	01	
201B	BELT FILTER PRESS	3' - 0"	7' - 10"	1 3/4"	HM	F	PT-1	HM	1	PT-1	01	
201C	BELT FILTER PRESS	8' - 0"	8' - 0"	3"	HM	OH	PT-1	HM		PT-1	02	
201D	BELT FILTER PRESS	8' - 0"	8' - 0"	3"	HM	OH	PT-1	HM		PT-1	02	

OPENING SCHEDULE

MARK	HEIGHT	WIDTH	COMMENTS
LV	2' - 8"	3' - 0"	
AA	2' - 0"	5' - 0"	TRANSLUCENT PANEL

GENERAL DOOR NOTES

A. TYPICAL DOOR DETAILS ARE SHOWN ON THIS SHEET. SEE FLOOR PLANS FOR SPECIALIZED PLAN DETAIL REFERENCES FOR ATYPICAL CONDITIONS
B. DOOR FRAME THROAT DIMENSIONS: REFER TO FLOOR PLANS FOR THE APPLICABLE PARTITION OR WALL SECTION AND THEN TO THE TYPICAL DOOR DETAILS SHOWN HERE.
C. DOOR ELEVATION MARK COLUMN WITH MULTIPLE MARKS SUCH AS "AA" OR "BB" INDICATE MULTI LEAF DOORS. DOOR LEAVES ARE EQUAL WIDTH, U.N.O.
D. PT-1 = ELASTORMERIC PAINT TO MATCH EXISTING COLOR.

DOOR TYPES SCHEDULE

FIRE RATING

N - NO RATING
20 - 20 MIN.
45 - 3/4 HOUR
60 - 1 HOUR
90 - 1 1/2 HOUR
180 - 3 HOUR

DOOR IDENTIFICATION ON PLAN

DOOR NUMBER
101A

GLAZING TYPE

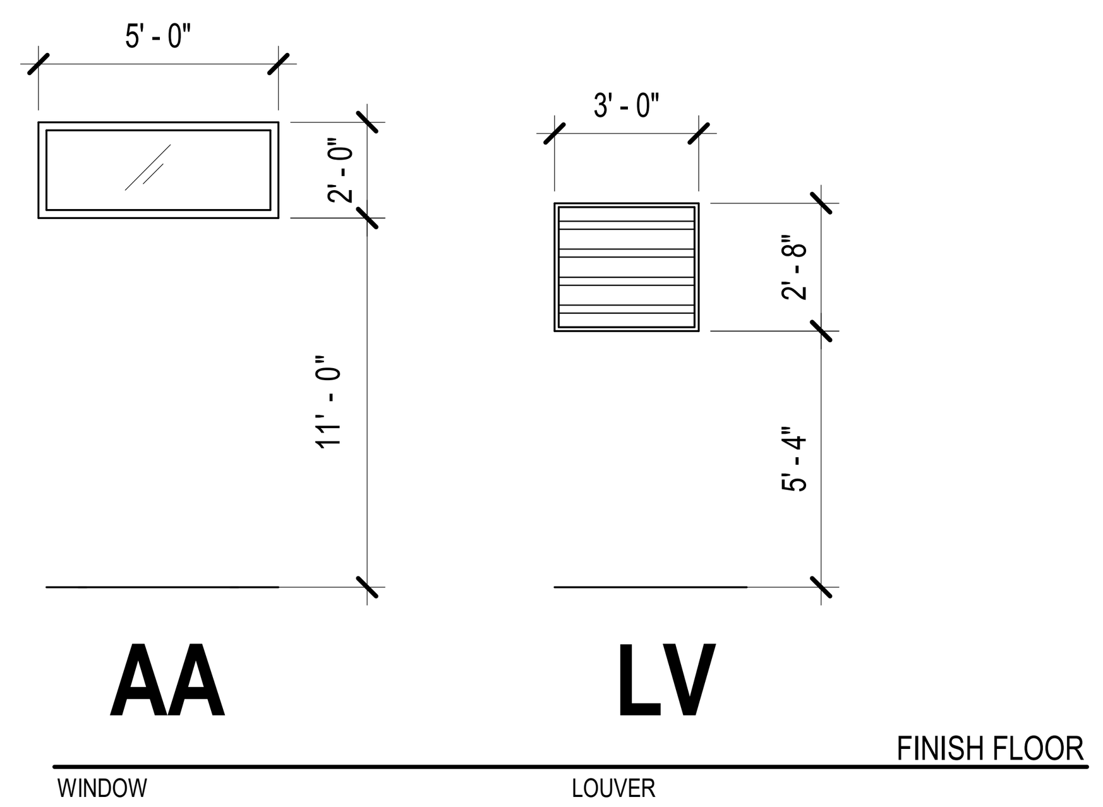
T - 1/4" CLEAR TEMPERED GLASS
TT - 1/4" TINTED AND TEMPERED GLASS
IT - 1" INSULATED TEMPERED GLASS
FR - 1/4" FIRE RATED CERAMIC GLASS

DOOR FRAME MATERIAL TYPE

HM - HOLLOW METAL
AL - ALUMINUM
WD - WOOD
STL - STEEL

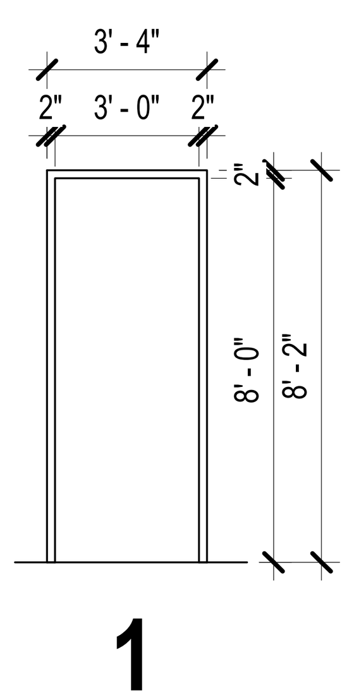
DOOR MATERIAL TYPE

WD - WOOD
HM - HOLLOW METAL
AL/GL - ALUMINUM AND GLASS
GL - GLASS
TC - CLEAR TEMPERED GLASS
PLAM - PLASTIC LAMINATE CLAD



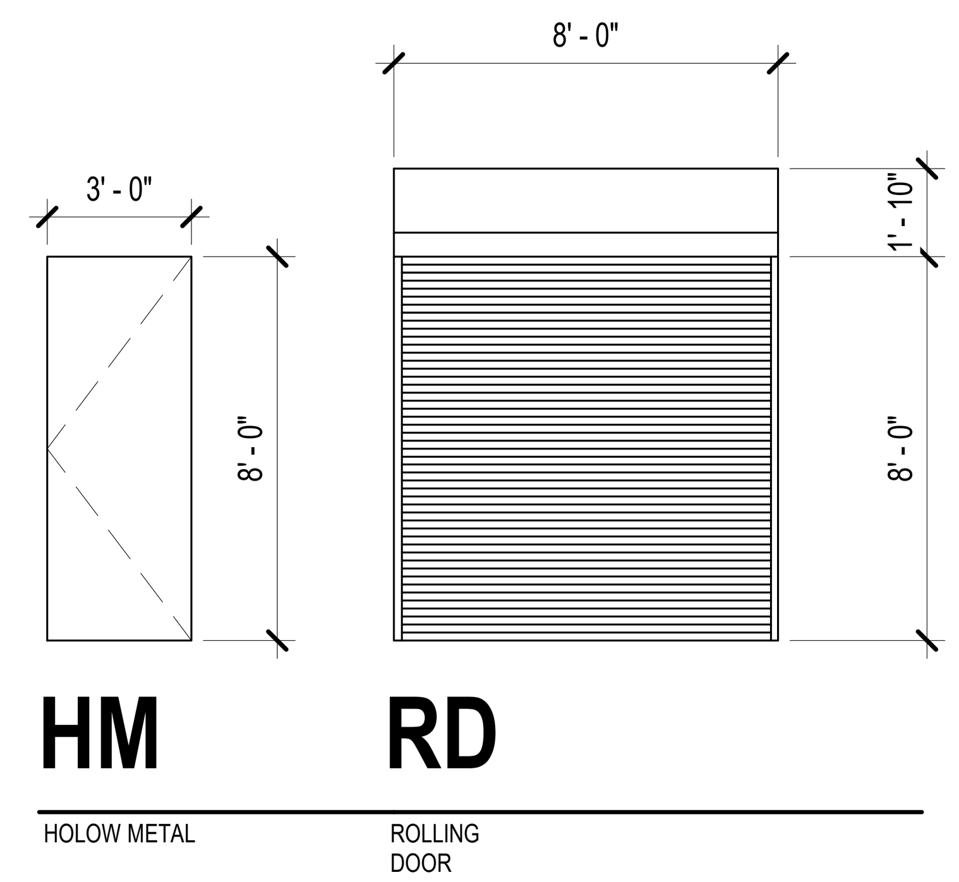
WINDOW ELEVATIONS

SIZE AS SCHEDULED



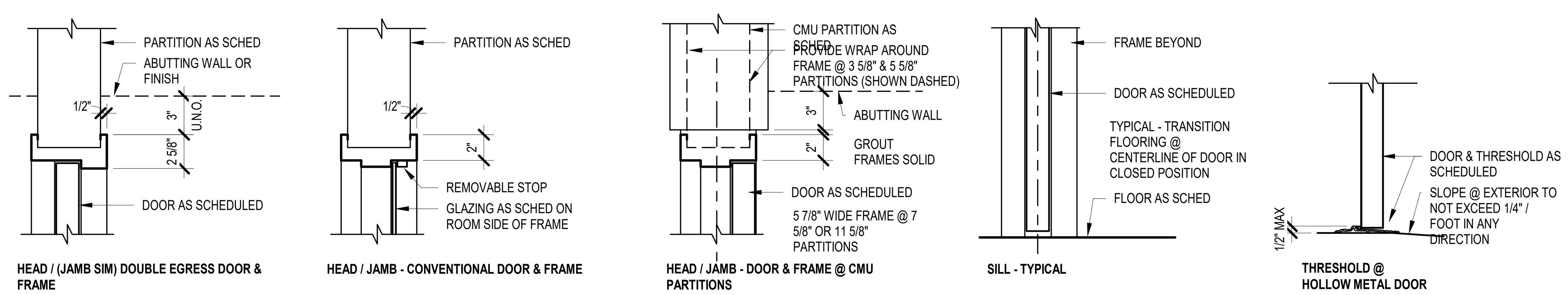
FRAME TYPE ELEVATIONS

SIZES AS SCHEDULED
GLAZING AT LITES IS 1/4" TEMPERED CLEAR GLASS U.N.O.



DOOR ELEVATIONS

SIZES AS SCHEDULED



TYPICAL DETAILS

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			

REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
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Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

DOOR SCHEDULE AND DETAILS

STATE OF NEW MEXICO
LAWRENCE D. McDONALD
No. 4238
REGISTERED ARCHITECT
05/09/2024

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nm811
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TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

PROJECT NO.	R316613.01
DESIGNED BY:	LH
DRAWN BY:	MRS
CHECKED BY:	LMD
DATE:	MAY 10, 2024
DPW CHK:	

SHEET
A-601

STRUCTURAL ABBREVIATIONS

(ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

A

AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECTURAL
ASTM	AMERICAN SOCIETY OF TEST MATERIALS

B

BB	BACK TO BACK
BC	BOTTOM CHORD
BF	BRACED FRAME
BL	BASE LINE
BLDG	BUILDING
BM	BEAM
BOD	BOTTOM OF DECK
BOTT	BOTTOM
BP	BASE PLATE
BRG	BEARING
BF	BRACE FRAME
BRKT	BRACKET
BS	BOTH SIDES
BSMT	BASEMENT
BVL	BEVEL
BW	BOTH WAYS

C

C	COMPRESSION
CJ	CONSTRUCTION JOINT
CL	CENTERLINE
CLR	CLEAR OR CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONT'D	CONTINUED
CONN	CONNECTION
CP	COMPLETE PENETRATION
CU	CUBIC
CY	CUBIC YARD

D

D	DEPTH
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DP	DAMP PROOFING
DWG	DRAWING(S)
DWL	DOWEL

E

E	EAST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EL, ELEV	ELEVATION
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR

F

FAB	FABRICATION
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISH FLOOR
FF	FAR FACE
FF EL	FINISH FLOOR ELEVATION
FIN	FINISH(ED)
FS	FAR SIDE
FT	FOOT
FTG	FOOTING

G

GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM

H

HORIZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
HS	HEADED STUD
HSS	HOLLOW STEEL SECTION

I

ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INT	INTERIOR

J

JT	JOINT
JST	JOIST

K

K	KIPS (1000 LBS)
KO	KNOCKOUT
KSI	KIPS PER SQARE INCH

L

LB,#	POUND
LD	DEVELOPMENT LENGTH
LDG	LANDING
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LP	LOW POINT
LW	LONG WAY
LWC	LIGHTWEIGHT CONCRETE

M

MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL PLUMBING
MEZZ	MEZZANINE
MF	MOMENT FRAME
MFR	MANUFACTURE(R)
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MS	MIDDLE STRIP
MT	STRUCTURAL TEE CUT FROM MISCELLANEOUS STEEL
MF	MOMENT FRAME
MO	MASONRY OPENING

N

N/A	NOT APPLICABLE
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE

O

OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OH	OPPOSITE HAND
OPT	OPTIONAL

P

PC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PERP	PERPENDICULAR
PG	PRESTRESSED GIRDER
PL	PLATE
PLG	PLUMBING
PREFAB	PREFABRICATED
PREL	PRELIMINARY
PRM	PREMOLDED
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PT	POINT
PVC	POLYVINYL CHLORIDE
PVT	PAVEMENT

R

R	RISER
RAD	RADIUS
RD	ROOF DRAIN
RE	REFER
REINF	REINFORCING (ED, MENT)
REM	REMINDER
REQD	REQUIRED
REV	REVISION
RH	RIGHT HAND
RJ	RUSTICATION JOINT
RND	ROUND
RO	ROUND OPENING
RW	RETAINING WALL

S

S	SOUTH
SC	SHEAR CONNECTORS
SCH	SCHEDULE(D)
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SJ	SAW JOINT
SL	SLOPE
SPA	SPACE
SPEC	SPECIFICATION(S)
SPL	SPECIAL
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENER
STIR	STIRRUP
STL	STEEL
STR	STRUCTURAL
STRUCT	STRUCTURAL
SW	SHEAR WALL
SYM	SYMMETRICAL

T

T	TREAD(S)
T/	TOP OF
T/CONC	TOP OF CONCRETE
T/FD	TOP OF FLOOR DRAIN
T/FTG	TOP OF FOOTING
T/SLAB	TOP OF SLAB
T&B	TOP AND BOTTOM
TEMP	TEMPERATURE
THK	THICKNESS
THRD	THREADED
TN	TENSION
TOS	TOP OF STEEL
TRANS	TRANSVERSE
TS	STRUCTURAL TUBING
TYP	TYPICAL

U

UNO	UNLESS NOTED OTHERWISE
USGS	UNITED STATES GEOLOGICAL SOCIETY

V

VERT	VERTICAL

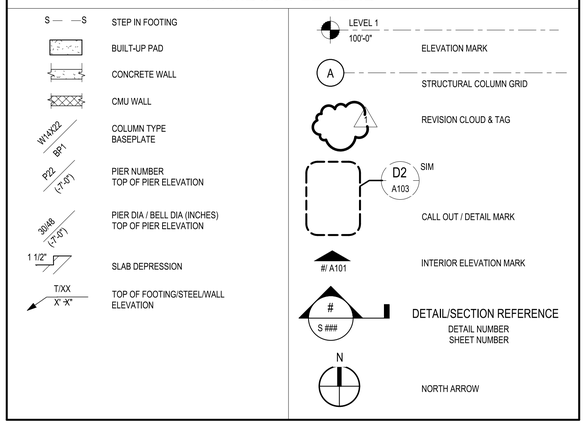
W

W	WEST, WIDTH
WF	WIDE FLANGE
WF	WALL FOOTING
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WT	WEIGHT
WT	STRUCTURAL TEE CUT FROM WIDE FLANGE BEAM
WWF	WELDED WIRE FABRIC

Y

YD	YARD

SYMBOLS LEGEND



CONCRETE TESTING AND SAMPLING NOTES

NOTE	DESCRIPTION
1.	THE FOLLOWING ITEMS SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 AND THE APPLICABLE IBC DURING THE PLACEMENT OF CONCRETE a. OBTAIN CONCRETE SAMPLES PER ACI C172 AT THE TIME OF EACH CONCRETE POUR b. PERFORMANCE OF VARIOUS TESTS c. REPORT SUBMITTALS d. SPECIAL INSPECTIONS
2.	CREAT (4) CONCRETE SPECIMENS (CYLINDERS) PER SAMPLE ACCORDING TO ASTM C31 AND TEST ACCORDING TO ASTM C39.
3.	TESTING OF SPECIMENS SHALL OCCUR TWICE AT 7 DAYS, TWICE AT 28 DAYS, AND TWICE AT 56 DAYS (IF 28 DAY STRENGTH IS LOW).
4.	STRENGTH TEST TO BE DONE FOR EACH 50 CUBIC YARDS OF CONCRETE POURED OF EACH MIX DESIGN. SEE NOTE 3.
5.	SLUMP TEST TO BE PERFORMED FOR EACH SET OF CONCRETE SPECIMENS PER ASTM C143 AND C172.
6.	PER ASTM C231, DETERMINE TOTAL AIR CONTENT FOR AIR-ENTRAINED CONCRETE MIX (1 TEST FOR EACH STRENGTH TEST.)
7.	COCNRETE MIX DESIGN SHALL INCLUDE 30 TEST SAMPLE DATA PER ACI 318. WHERE 30 TESTS ARE NOT AVAILABLE, INCREASE CONCRETE COMPRESSIVE STRENGTH (f'c) PER ACI 318.
8.	CONCRETE THAT IS PLACED BY A TYPE OF PUMP SHALL HAVE THE CONCRETE TESTING SAMPLES TAKEN FROM THE HOSE END.

DESIGN CRITERIA

NOTE	DESCRIPTION
1.	GENERAL BUILDING REQUIREMENTS - IBC 2021 DESIGN LIVE LOADS: ROOF ---------- 20 PSF LOBBIES, CORRIDORS & ASSEMBLY AREAS ---------- 100 PSF EQUIPMENT WAREHOUSE (HEAVY) ---------- 250 PSF VEHICULAR PAVEMENT ---------- 250 PSF GROUND SNOW LOAD ---------- 22 PSF SUPERIMPOSED DEAD LOAD (COLLATERAL): SEE ARCH DRAWINGS FOR CEILING, ROOFING AND FINISH REQUIREMENTS.
2.	WIND LOAD PARAMETERS - ASCE 7-16 BASIC WIND SPEED ---------- 110 MPH RISK CATEGORY ---------- II EXPOSURE CATEGORY ---------- C
3.	SEISMIC DESIGN PARAMETERS - ASCE 7-16 SEISMIC SPECTRAL ACCELERATIONS S_s ---------- 0.490g S_1 ---------- 0.130g RISK CATEGORY ---------- II SITE CLASS ---------- D SEISMIC DESIGN CATEGORY---------- D DESIGN SPECTRAL ACCELERATIONS S_{ds} ---------- 0.430g S_{d1} ---------- 0.230g
4.	THE STRUCTURE SHOULD NOT BE CONSIDERED TO BE STABLE DURING CONSTRUCTION UNTIL ALL ELEMENTS ARE IN PLACE AND CONNECTED. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY CONSTRUCTION BRACING REQUIRED.

POST INSTALLED ANCHOR NOTES

NOTE	DESCRIPTION
1.	POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER–OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE. PROVIDE CONTINUOUS OR PERIODIC SPECIAL INSPECTION FOR ALL ADHESIVE AND MECHANICAL ANCHORS PER THE PRODUCT'S APPLICABLE ICC-ES EVALUATION REPORT (ICC-ES ESR). CONTACT MANUFACTURER'S REPRESENTATIVE FOR THE INITIAL TRAINING AND INSTALLATION OF ANCHORS AND FOR PRODUCT RELATED QUESTIONS AND AVAILABILITY. CALL SIMPSON STRONG-TIE AT (800) 999-5099. CALL HILTI AT (866) 445-8827.
2.	CONCRETE ANCHORS: ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. INSTALLATION SHALL BE IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. HORIZONTAL AND/OR UPWARD INCLINED INSTALLATION ORIENTATION SHALL BE PERFORMED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER. CONCRETE SHALL MEET THE FOLLOWING CONDITIONS FOR INSTALLATION AND PERFORMANCE OF ADHESIVE ANCHORS: MINIMUM AGE OF CONCRETE AT TIME OF INSTALLATION: 21 DAYS MAXIMUM SERVICE TEMPERATURE: 110 DEG. F SERVICE MOISTURE CONDITION OF CONCRETE: DRY CONCRETE WEIGHT: NORMAL WEIGHT SPECIAL INSTALLATION AND LOADING CONDITIONS: OVERHEAD, SUSTAINED TENSION PRE-APPROVED ADHESIVE ANCHORS INCLUDE: SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508), HILTI "HIT-RE 500 V3" (ICC-ES ESR-3814), POWERS "PE 1000+" (ICC-ES ESR-2583), OR HILTI "HIT-HY 200-A V3" (ICC-ES ESR-4868).
3.	MASONRY ANCHORS: i. ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY (1) MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC01 OR AC106. PRE-APPROVED MECHANICAL ANCHORS INCLUDE: (a) SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056) OR HILTI "HUS-H" (ICC-ES ESR-2369) (b) SIMPSON STRONG-TIE "STRONG-BOLT 2" (IAPMO-ES ER-240), "WEDGE-ALL" (ICC-ES ESR-1396) OR HILTI "KWIK BOLT 3" (ICC-ES ESR-1385) (2) ADHESIVE ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE: (a) SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772) OR HILTI "HIT-HY 150" (ICC-ES ESR-2678) (b) SIMPSON STRONG-TIE "ACRYLIC-TIE" (ICC-ES ER-5791) OR HILTI "HIT-HY 150 MAX" (ICC-ES ESR-1967) ii. ANCHORAGE TO HOLLOW CONCRETE MASONRY (1) MECHANICAL ANCHORS SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED SCREW ANCHORS INCLUDE: SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-1056) OR HILTI "HUS-H" (ICC-ES ESR-2369) (2) ADHESIVE ANCHORS WITH SCREEN TUBES SHALL BE TESTED AND QUALFIED IN ACCORDANCE WITH ICC-ES AC58 OR AC60, AS APPROPRIATE. THE APPROPRIATESCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE: SIMPSON STRONG-TIE "SET" (ICC-ES ESR-1772) OR HILTI "HIT-HY 70" (ICC-ES ESR-2659)

MASONRY NOTES

NOTE	DESCRIPTION
1.	ALL CMU WALLS SHALL BE DETAILED ACCORDING TO THE REQUIREMENTS OF ACI 530-11 AND THE PROJECT DOCUMENTS. WHERE CONFLICTS ARISE, THE MORE STRINGENT CRITERIA SHALL APPLY.
2.	CONCRETE MASONRY UNITS (CMU) MUST HAVE A MINIMUM COMPRESSIVE STRENGTH (f'm) OF 1900 PSI AT 28 DAYS.
3.	REINFORCEMENT SHALL MEET THE REQUIREMENTS OF ASTM A615.
4.	MORTAR SHALL BE PORTLAND CEMENT-LIME AND SHALL COMPLY WITH ASTM C270, TYPE M.
5.	GROUT SHALL COMPLY WITH ASTM C476, 2000 PSI.

CONCRETE NOTES

NOTE	DESCRIPTION
1.	UNLESS NOTED OTHERWISE, ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL AND ACCESSORIES SHALL CONFORM TO "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315) AND "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" (ACI 315R), LATEST EDITIONS.
2.	ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS.
3.	UNLESS NOTED OTHERWISE, ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60, INCLUDING SUPPLEMENTARY REQUIREMENTS.
4.	UNLESS NOTED OTHERWISE, ALL SPLICES OF REINFORCING STEEL SHALL BE CLASS B TENSION LAP SPLICES (12" MIN.).
5.	SPLICE TOP REINFORCING STEEL AT MID-SPAN AND BOTTOM REINFORCING STEEL OVER SUPPORTS.
6.	WELDED WIRE FABRIC REINFORCING SHALL LAP TWO FULL SPACINGS OF THE CROSS WIRES AND BE SECURELY ATTACHED AT EACH END.
7.	UNLESS NOTED OTHERWISE, ALL REINFORCING STEEL HOOKS SHALL BE ACI STANDARD 90° HOOKS.
8.	ALL OPENINGS IN CONCRETE WHERE GREATEST DIMENSION EXCEEDS 1'-0" SHALL HAVE 2- #5 BARS ON EACH SIDE AND AT EACH CORNER. BARS SHALL EXTEND THE FULL EMBEDMENT LENGTH (2'-0" MIN.) BEYOND EDGE OF OPENING.
9.	UNLESS NOTED OTHERWISE, PROVIDE A 3/4"x3/4" CHAMFER AT ALL EXPOSED EXTERNAL CORNERS.
10.	ALL SLOTS, SLEEVES, AND OTHER EMBEDDED ITEMS SHALL BE SET PRIOR TO CONCRETE PLACEMENT. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND VENDOR DRAWINGS FOR SIZES AND LOCATIONS.
11.	SIZE AND PLACEMENT OF ALL CONCRETE REINFORCEMENT AND EMBEDS SHALL BE INSPECTED AND APPROVED PRIOR TO PLACING CONCRETE.
12.	ALL ELEVATIONS SHOWN ON CONCRETE DRAWINGS OUTSIDE THE BUILDING LIMITS ARE TRUE ELEVATIONS. ALL ELEVATIONS SHOWN ON CONCRETE DRAWINGS WITHIN THE BUILDING LIMITS ARE BASED ON A DATUM ELEVATION OF 0.00' AT FINISHED FLOOR.

PRE-ENGINEERED BUILDING

NOTE	DESCRIPTION
1.	THE BUILDING SHALL BE A MANUFACTURER'S STANDARD PREFABRICATED METAL STRUCTURE OF THE APPROXIMATE INSIDE AREA SHOWN EXCEPT AS NOTED. HOWEVER, MINIMUM WEB THICKNESS OF RIGID FRAMES SHALL BE 3/16".
2.	THE BUILDING SHALL BE DESIGNED AND FABRICATED ACCORDING TO THE MOST CURRENT AISC, MBMA, AND AISI SPECIFICATIONS. THE DIMENSIONAL TOLERANCES OUTLINED IN THE AWS CODE UNDER WORKMANSHIP AND THE TOLERANCES APPLICABLE TO ROLL FORM STEEL UNDER THE AISC "STANDARD MILL PRACTICE" SECTION SHALL BE REQUIRED IN THE FABRICATION OF THE STEEL BUILDING FRAMES.
3.	THE BUILDING FRAME SHALL BE DESIGNED TO LIMIT THE LATERAL DEFLECTION TO H/100.
4.	THE DESIGN AND DETAILING OF THE STRUCTURE(S) ABOVE THE FOUNDATION SLAB IS DELEGATED DESIGN. A COMPLETE AND FINAL DESIGN ANALYSIS SHOWING ALL CALCULATIONS FOR THE RIGID FRAMES, GIRTS, PURLINS, WIND POSTS, AND X-BRACING FOR WIND AND SEISMIC LOADS AND A LAYOUT OF ANCHOR BOLTS AND OTHER EMBEDED ITEMS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE DETAILS OF ALL MAIN MEMBERS, TYPICAL CONNECTIONS (SHOWING BOLT HOLES AND WELDS), AND ERECTION DRAWINGS.
5.	THE BUILDING SHALL BE DESIGNED TO SUPPORT ALL MECHANICAL EQUIPMENT INCLUDING HEATERS, SPRINKLERS, EXHAUST SYSTEMS, AND ALL OTHER SUCH DEVICES. ADDITIONAL GIRTS OR PURLINS SHALL BE PLACED IN CONVENIENT LOCATIONS FOR ATTACHMENT OF ALL MECHANICAL EQUIPMENT.
6.	MINIMUM DESIGN LOADS SHALL CONFORM WITH THE GENERAL NOTES. LOAD COMBINATIONS SHOULD COMPLY WITH MBMA AND AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS.

Notice of Extended Payment Provision

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CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			

REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT-ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3441 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

STRUCTURAL NOTES

WENDY L. AMANN
NEW MEXICO
17657
REGISTERED
PROFESSIONAL ENGINEER
4/30/24

PROJECT NO.	R316613.01
DESIGNED BY:	LAB
DRAWN BY:	LAB
CHECKED BY:	MRD
DATE:	APRIL 2024
DPW CHK:	

SHEET: S-001

Plotted: 5/9/2024 11:42 PM, By:Abrahs, Devin
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Last Saved:5/9/2024 11:02:11 AM, abbeyra

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nm811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

STRUCTURAL NOTES

WENDY L. AMANN
NEW MEXICO
17657
LICENSED PROFESSIONAL ENGINEER
5/9/24

PROJECT NO.	R316613.01
DESIGNED BY:	LAB
DRAWN BY:	LAB
CHECKED BY:	MRD
DATE:	APRIL 2024
DPW CHK:	

SHEET: S-002

Plotted: 5/9/2024 1:11:43 PM, By: Abreya, Devin
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Last Saved 5/9/2024 1:10:11 AM, abreya

INSPECTION OF CONCRETE CONSTRUCTION

	REQUIRED VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1.	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	----	X	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2.	REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECT ALL OTHER WELDS.	---- X	X X	AWS D1.4, ACI 318: 26.6.4	----
3.	INSPECT ANCHORS CAST IN CONCRETE	X	----	ACI 318: 17.8.2	----
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.				
	a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X		ACI 318: 17.8.2.4	----
	b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.		X	ACI 318: 17.8.2	
5.	VERIFY USE OF REQUIRED DESIGN MIX.	----	X	ACI 318: CH 19, 26.4.3, 26.4.4	
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	----	ASTM C 172, ASTM C 31 ACI 318: 26.4, 26.12	1904.1, 1904.2, 1908.2, 1908.3 1908.10
7.	INSPECT OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	----	ACI 318: 26.5	
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	----	X	ACI 318: 26.5.3-26.5.5	1908.6, 1908.7, 1908.8 1908.9
9.	INSPECT PRESTRESSED CONCRETE FOR:				
	a. APPLICATION OF PRESTRESSED FORCES.	X	----	ACI 318: 26.10	----
	b. GROUTING OF BONDED PRESTRESSING TENDONS.	X	----		
10.	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	----	X	ACI 318: CH. 26.8	----
11.	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	----	X	ACI 318: 26.11.2	----
12.	INSPECT FORWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	----	X	ACI 318: 26.11.1.2(b)	----

INSPECTION OF MASONRY CONSTRUCTION (LEVEL B)

	REQUIRED VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6
1.	VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	----	X	----	ART. 1.5
2.	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
	a. PROPORTIONS OF SITE-PREPARED MORTAR.	----	X	----	ART. 2.1, 2.6A
	b. CONSTRUCTION OF MORTAR JOINTS.	----	X	----	ART. 3.3B
	c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	----	X	----	ART. 2.4B, 2.4H
	d. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES.	----	X	----	ART. 3.4, 3.6A
	e. PRESTRESSING TECHNIQUE.	----	X	----	ART. 3.6B
	f. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	----	X	----	ART. 2.1C
3.	PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
	a. GROUT SPACE IS CLEAN.	----	X	----	ART. 3.2D, 3.2F
	b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.	----	X	SEC. 6.1	ART. 2.4, 3.4
	c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES.	----	X	SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	ART. 2.4, 3.4
	d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	----	X	----	ART. 2.6B, 2.4G.1.b
	e. CONSTRUCTION OF MORTAR JOINTS.	----	X	----	ART. 3.3B
4.	VERIFY DURING CONSTRUCTION:				
	a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	----	X	----	ART. 3.3F
	b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMEBERS, FRAMES OR OTHER CONSTRUCTION.	----	X	SEC. 1.2.1(e) 6.1.4.3, 6.2.1	----
	c. WELDING OF REINFORCING BARS.	X	----	SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b)	----
	d. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F).	----	X	----	ART. 1.8C, 1.8D
	e. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	X	----	----	ART. 3.6B
	f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.	X	----	----	ART 3.5, 3.6C
	9. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.	X	X	----	ART. 3.3 B.9, 3.3 F.1.b
5.	OBSERVER PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	----	X	----	ART. 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4
6.	VERIFICATION OF f'_m AND f'_{AAC} PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.	----	X	----	ART. 1.4B
7.	VERIFICATION OF SLUMPFLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOILDATING GROUT.	X	----	----	ART. 1.5B.1.b.3

SPECIAL INSPECTION

1. ONE OR MORE SPECIAL INSPECTORS, EMPLOYED BY THE CONTRACTOR, ARE REQUIRED TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705 OF THE IBC AND THE TABLE ON THIS SHEET.
2. THE SPECIAL INSPECTOR(S) SHALL BE A QUALIFIED PERSON(S) WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
3. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS AND FURNISH THOSE TO THE BUILDING OFFICIAL AND ENGINEER OF RECORD.
4. REPORTS SHALL INDICATE IF WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND ENGINEER OF RECORD.
5. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
6. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. AT COMPLETION OF FABRICATION, THE FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.

Notice of Extended Payment Provision

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nm811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3441 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

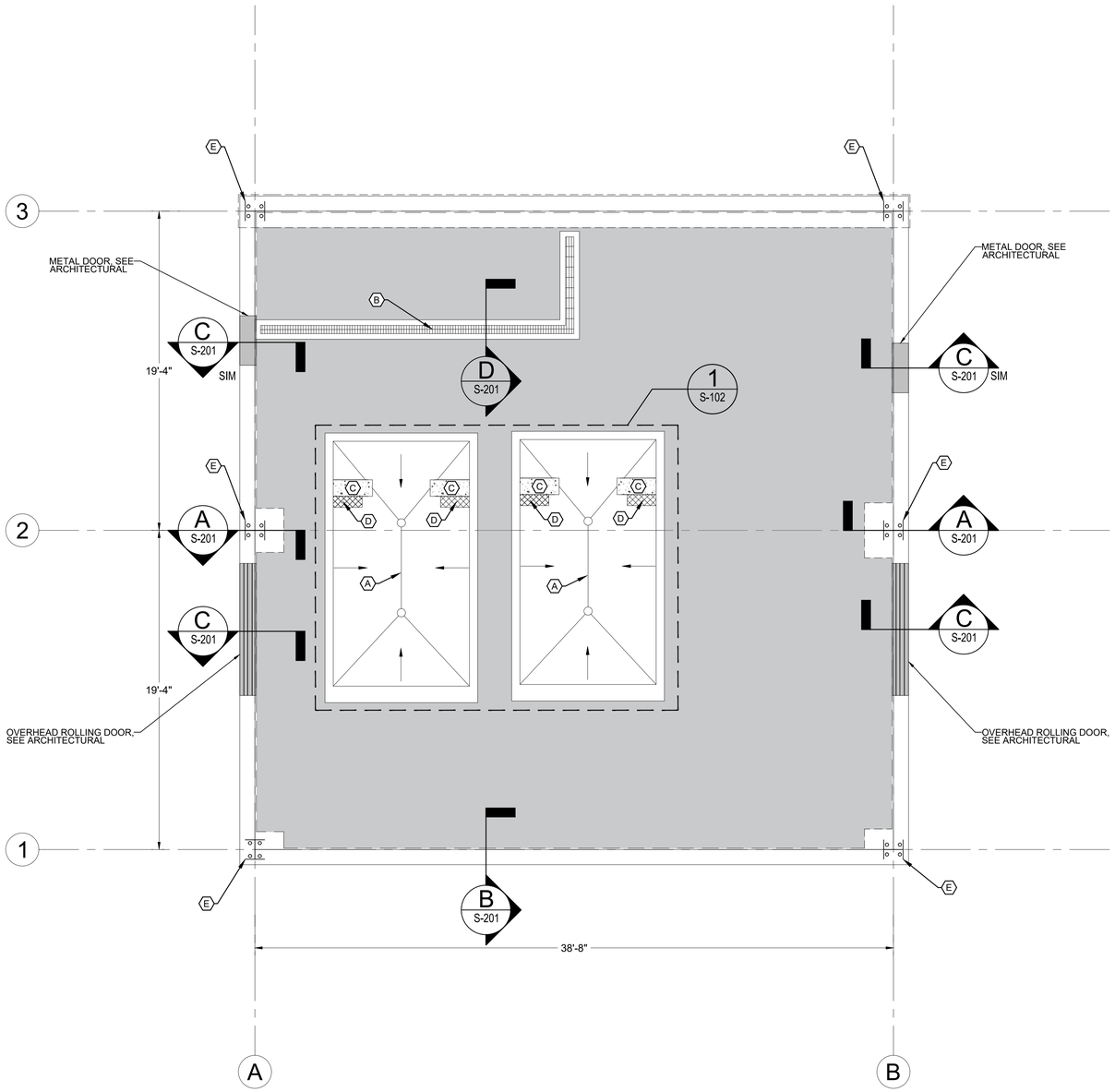
SPECIAL INSPECTIONS

WENDY L. AMANN
NEW MEXICO
17657
REGISTERED PROFESSIONAL ENGINEER
4/30/24

PROJECT NO.	R316613.01
DESIGNED BY:	LAB
DRAWN BY:	LAB
CHECKED BY:	MRD
DATE:	APRIL 2024
DPW CHK:	

SHEET: S-003

Plotted: 5/8/2024 1:11:43 PM, By:Alberto, Devin
\\hzfsrvrun\Data\proj\R316613.01 - SOCORRO-WW Sludge Filter Press\05 Design\05.2 Engineering by Discipline\Structural\Sheets\GENERAL NOTES.dwg
Last Saved:5/8/2024 11:32:11 AM, albeyria



1 FOUNDATION PLAN

0 4' 8'

SCALE: 1" = 4'

N

GENERAL NOTES

1. SEE S-001 AND S-002 FOR DESIGN CRITERIA AND GENERAL STRUCTURAL NOTES.
2. METAL BUILDING IS A DELEGATED DESIGN. SEE SPECIFICATION 133419. PROPOSED COLUMN AND DRILLED PIER LOCATIONS ARE ESTIMATED. PROVIDE MINIMUM 6" CONCRETE COVER AROUND ALL PROPOSED ANCHOR BOLTS. VERIFY ALL DIMENSIONS AND LOADS FOR PROPOSED COLUMNS AND ANCHOR BOLTS WITH APPROVED SIGNED SEALED METAL BUILDING PLANS PRIOR TO START OF FOUNDATION CONSTRUCTION.
3. SEE ARCHITECTURAL DRAWINGS FOR SLOPES, DRAINS, ETC. AT OVERHEAD DOORS AND EXPOSED EXTERIOR SLAB CONDITIONS.
4. CONFLICTS ARE POSSIBLE BETWEEN THE LOCATIONS OF THE EXISTING EMBEDDED BASEPLATES AND ANCHOR BOLTS AND THE NEW PEMB ANCHOR BOLTS. CONTRACTOR TO EXERCISE CAUTION WHEN DRILLING NEW ANCHOR BOLTS.

(#) KEYED NOTES

A EXISTING CONCRETE SUMP TO REMAIN IN PLACE.

B NEW TRENCH DRAIN. SEE DETAIL D/S-201.

C NEW BELT FILTER PRESS CONCRETE PEDESTAL. SEE SECTIONS E & F/S-201.

D EXISTING FILTER PRESS CONCRETE PEDESTAL TO BE DEMOLISHED AND DISPOSED.

E NEW PEMB COLUMNS (BY OTHERS). EXISTING PEMB COLUMNS ARE EMBEDDED IN CONCRETE AND BASE PLATES AND ANCHOR BOLTS ARE INACCESSIBLE. CONTRACTOR TO CUT EXISTING PEMB COLUMNS AT SURFACE OF FOUNDATION AND GRIND FLUSH WITH TOP OF CONCRETE PRIOR TO INSTALLATION OF NEW PEMB STRUCTURE.

LEGEND

- EXISTING CONCRETE TO REMAIN.
- NEW TRENCH DRAIN.
- NEW CONCRETE PEDESTALS.
- TO BE DEMOLISHED
- SLOPE DIRECTION

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811 TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
1			
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3			
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5			
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7			

REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone (505) 892-3141 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

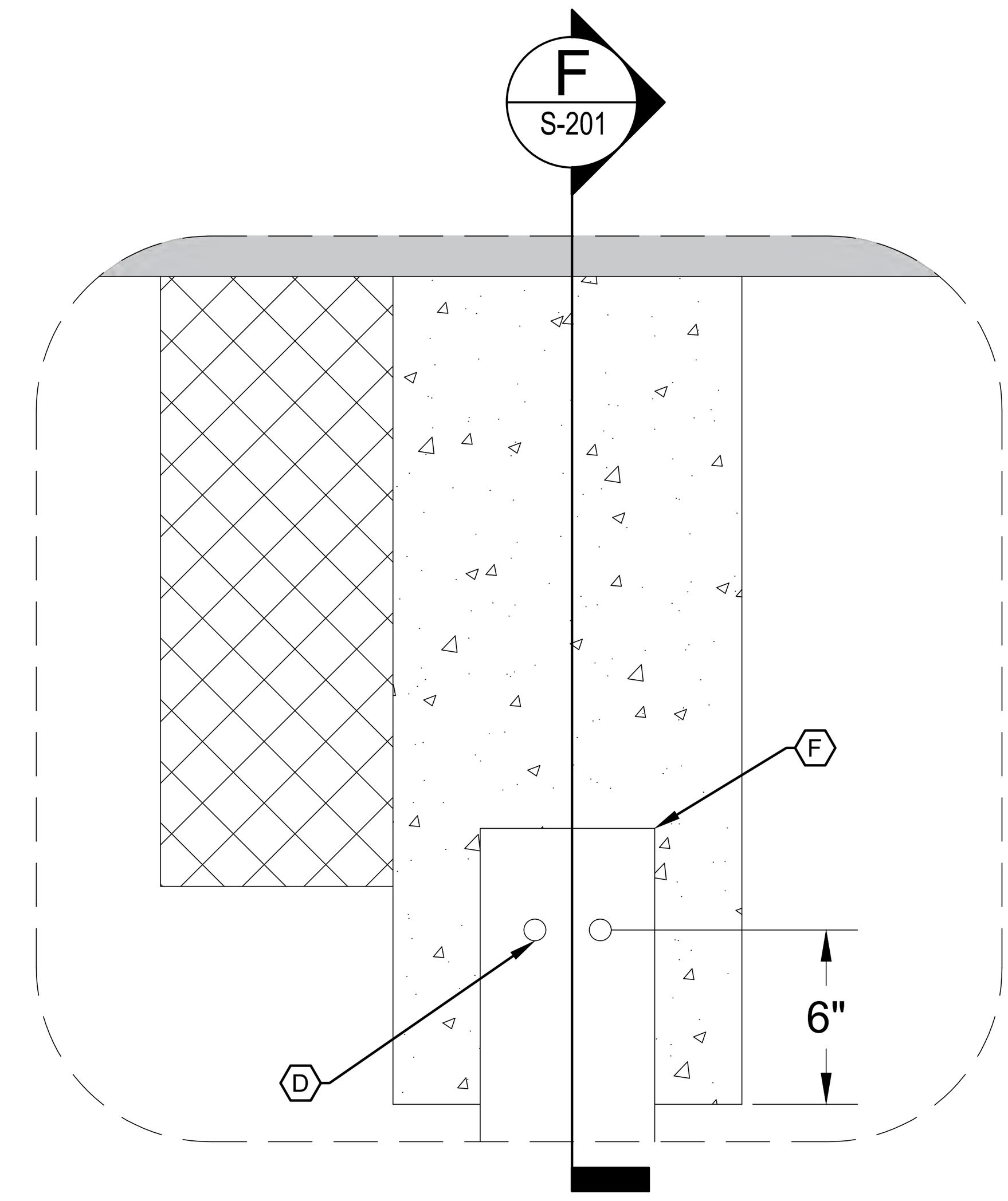
FOUNDATION PLAN

WENDY L. AMANN
NEW MEXICO
17657
PROFESSIONAL ENGINEER
2/6/24

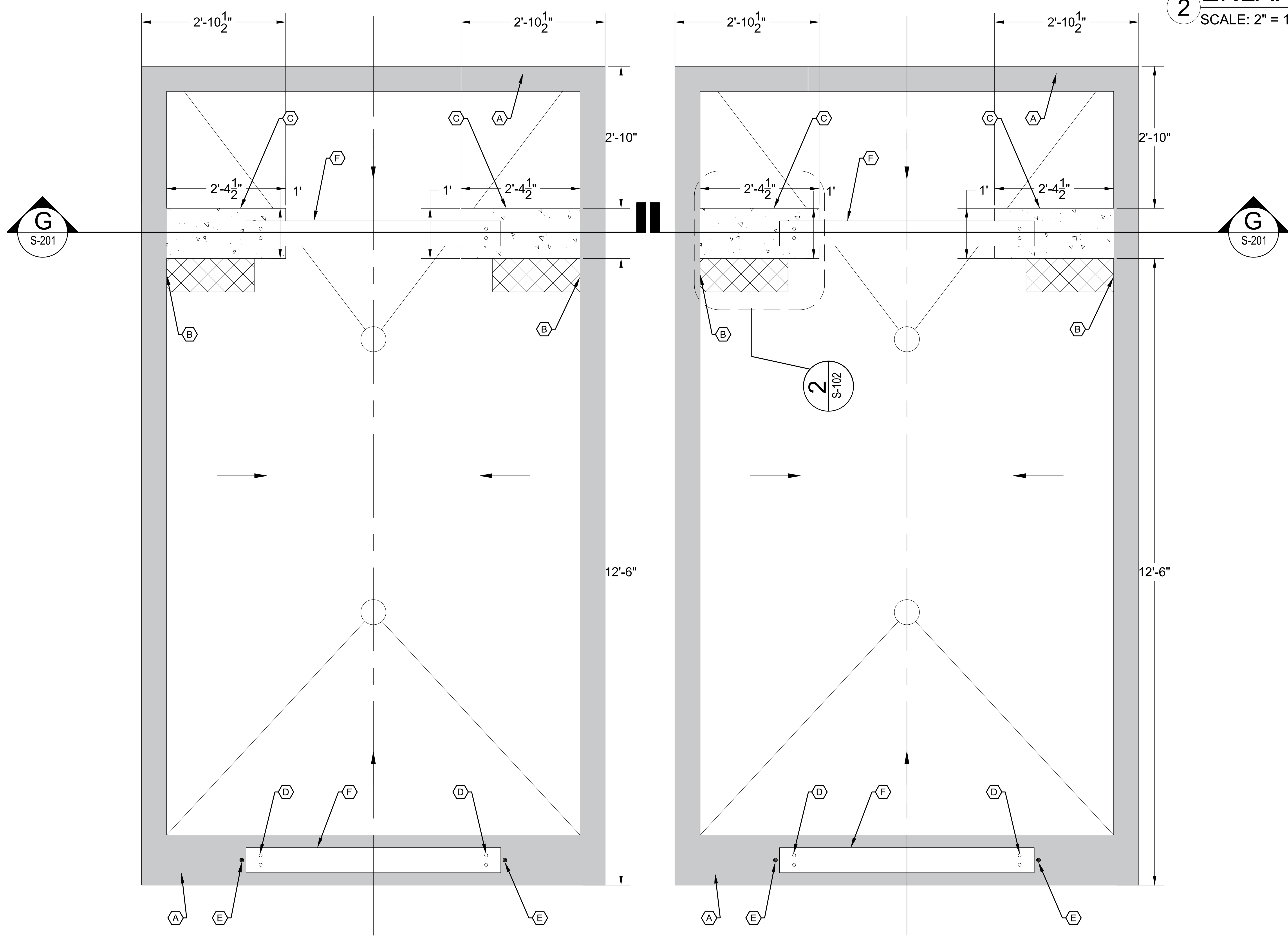
PROJECT NO.	R316613.01
DESIGNED BY:	LAB
DRAWN BY:	LAB
CHECKED BY:	MRD
DATE:	APRIL 2024
DPW CHK:	

SHEET: S-101

Plotted: 5/9/2024 1:11:45 PM, By:Aheyra, Devin
\\hzfsrvrain\Data0\proj\R316613.01 - SOCORRO-NW Sludge Filter Press\05 Design\05.2 Engineering by Discipline\Structural\Sheets\FOUNDATION PLAN.dwg
Last Saved:5/9/2024 12:49:18 PM, dabeyta



2 ENLARGED PEDESTAL PLAN
SCALE: 2" = 1' - 0"



1 ENLARGED SUMP PLAN
SCALE: 3/4" = 1'

GENERAL NOTES

1. SEE S-001 AND S-002 FOR DESIGN CRITERIA AND GENERAL STRUCTURAL NOTES.
2. PREPARE WALLS AND FLOOR OF SUMP FOR NEW CONCRETE PEDESTAL BY MECHANICAL CHIPPING OR GRINDING TO PRODUCE A ROUGHENED SURFACE WITH AT LEAST A 1/4" AMPLITUDE. APPLY CONCRETE BONDING AGENT PRIOR TO POURING NEW CONCRETE PEDESTAL (SIKA "ARMATEC 1C", SIKA "ARMATEC-110 EPOCEM" OR APPROVED EQUAL).

KEYED NOTES

A. EXISTING CONCRETE TO REMAIN.
B. CHIP/GRIND EXISTING PEDESTAL AS CLOSE AS PRACTICAL BACK TO EXISTING WALLS AND FLOOR OF SUMP. MAINTAIN EXISTING FLOOR SLOPE.
C. SEE DETAILS E AND F, SHEET S-201.
D. (2) 3/4" DIA. HILTI HIT-HY 200 V3 ADHESIVE ANCHORS (F1554 GRADE 36 THREADED ROD) W/ MIN 8" EMBEDMENT. ANCHORS TO BE CENTERED ON NEW PEDESTAL/EXISTING WALL.
E. CUT OFF EXISTING ANCHOR BOLTS GRIND FLUSH.
F. NEW FILTER PRESS (BY OTHERS).

LEGEND

- EXISTING CONCRETE TO REMAIN.
- NEW TRENCH DRAIN.
- NEW CONCRETE PEDESTALS.
- TO BE DEMOLISHED
- SLOPE DIRECTION

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REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

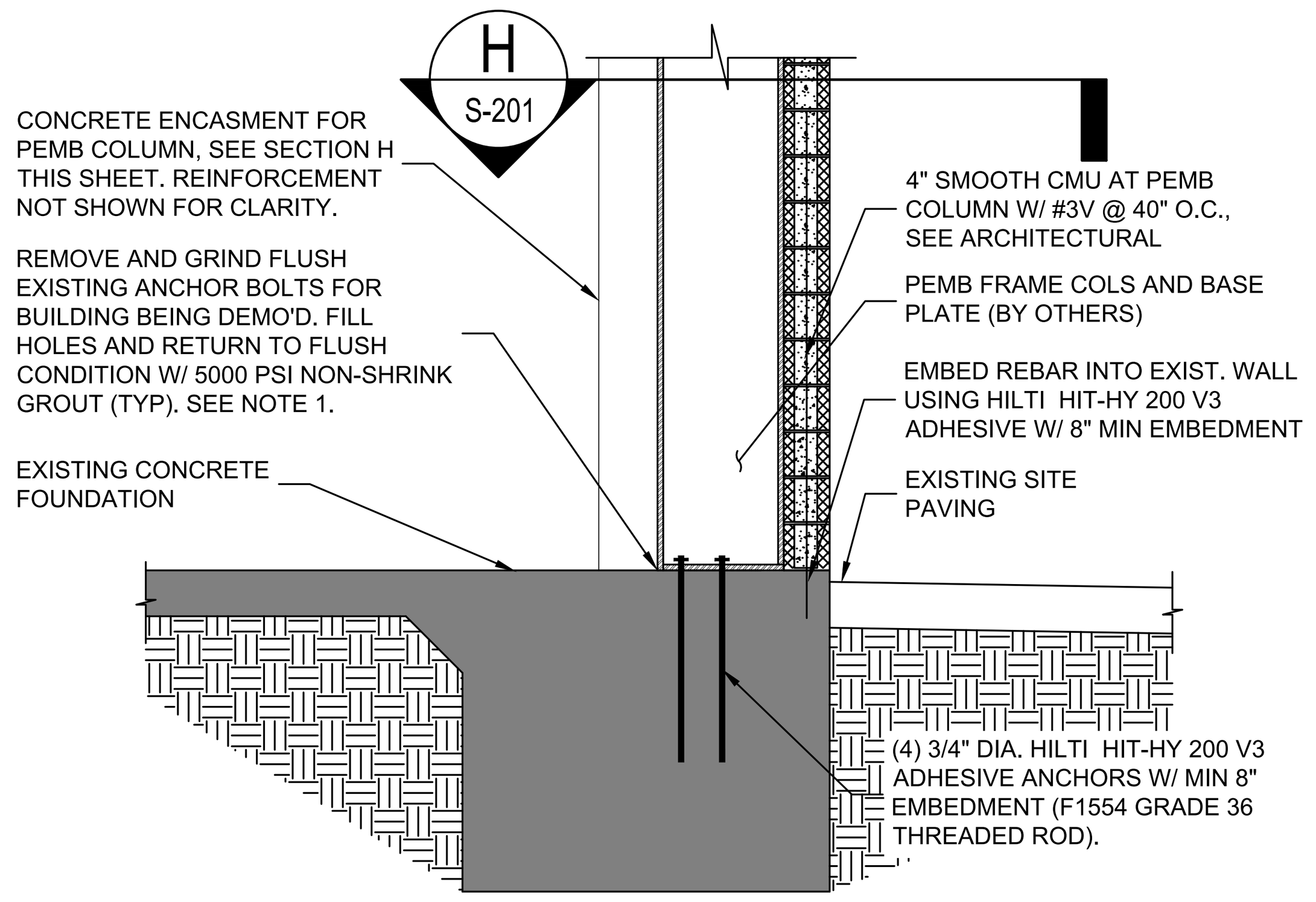
ENLARGED SUMP

WENDY L. AMANN NEW MEXICO 17657 LICENSED PROFESSIONAL ENGINEER

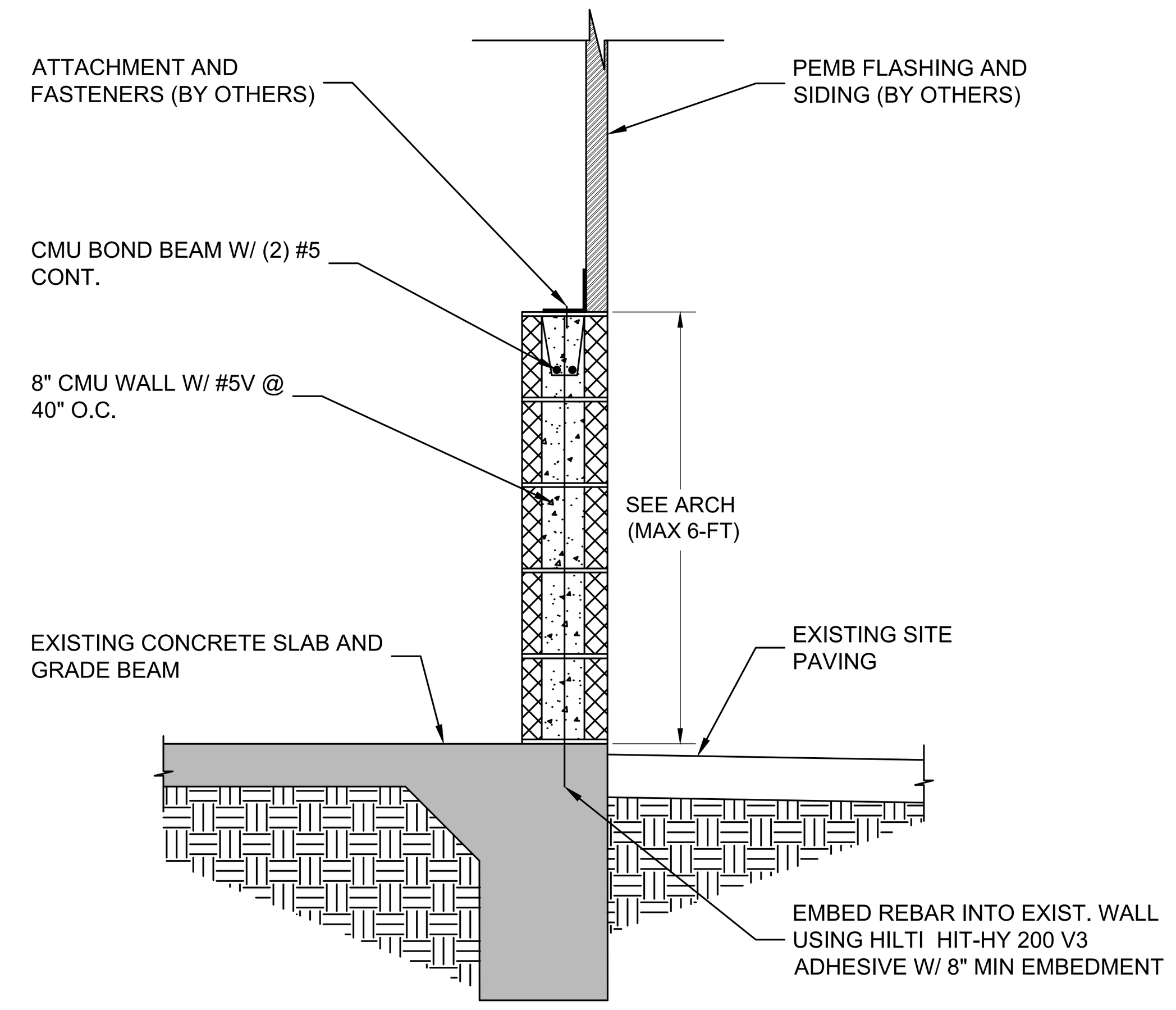
PROJECT NO.	R316613.01
DESIGNED BY:	LAB
DRAWN BY:	LAB
CHECKED BY:	MRD
DATE:	APRIL 2024
DPW CHK:	

SHEET:
S-102

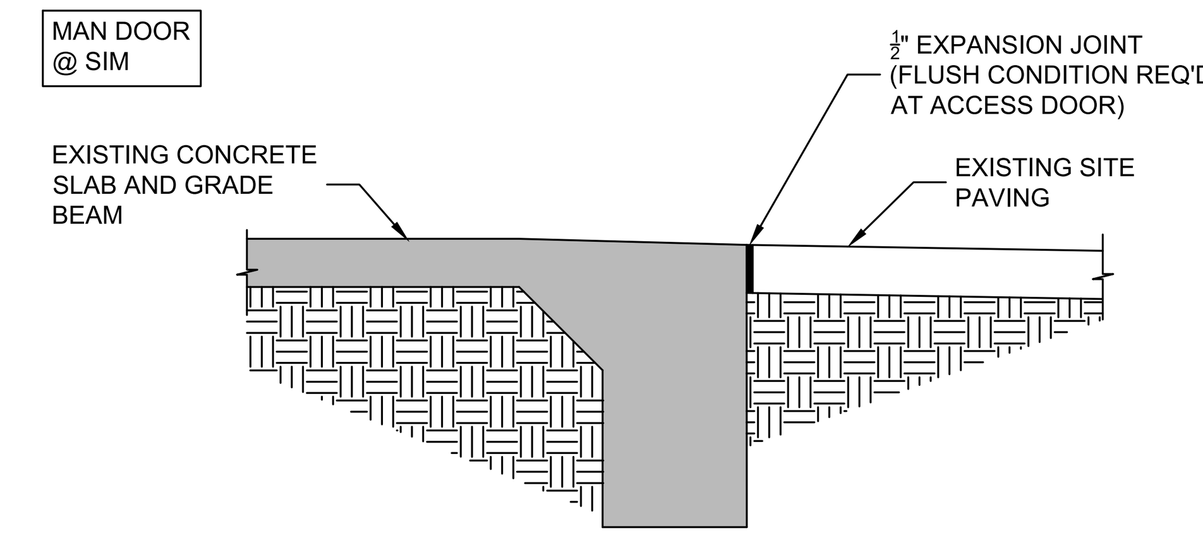
Plotted: 5/9/2024 1:11:46 PM, By:Abeyta, Devin
Last Saved:5/9/2024 12:49:18 PM, dabeyta



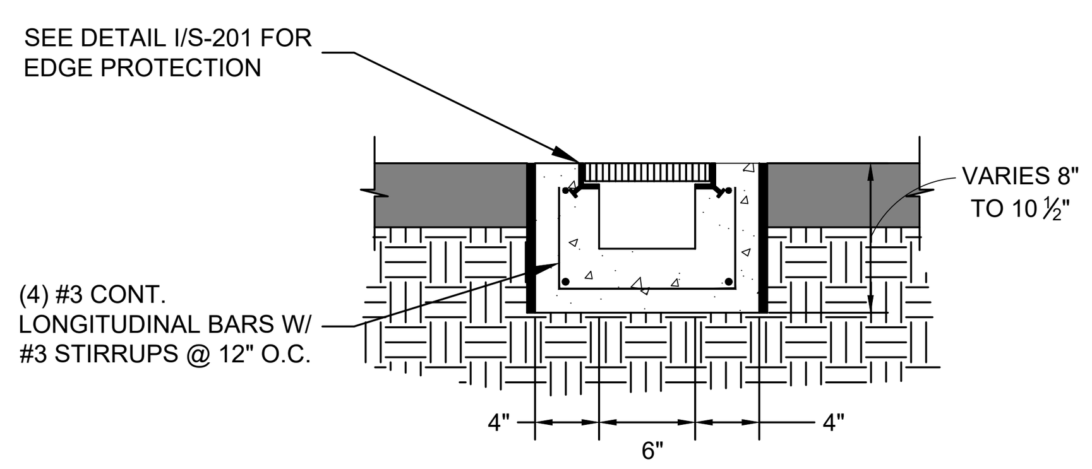
A
S-201
PEMB CONNECTION TO GRADE BEAM
SCALE: 3/4" = 1'-0"



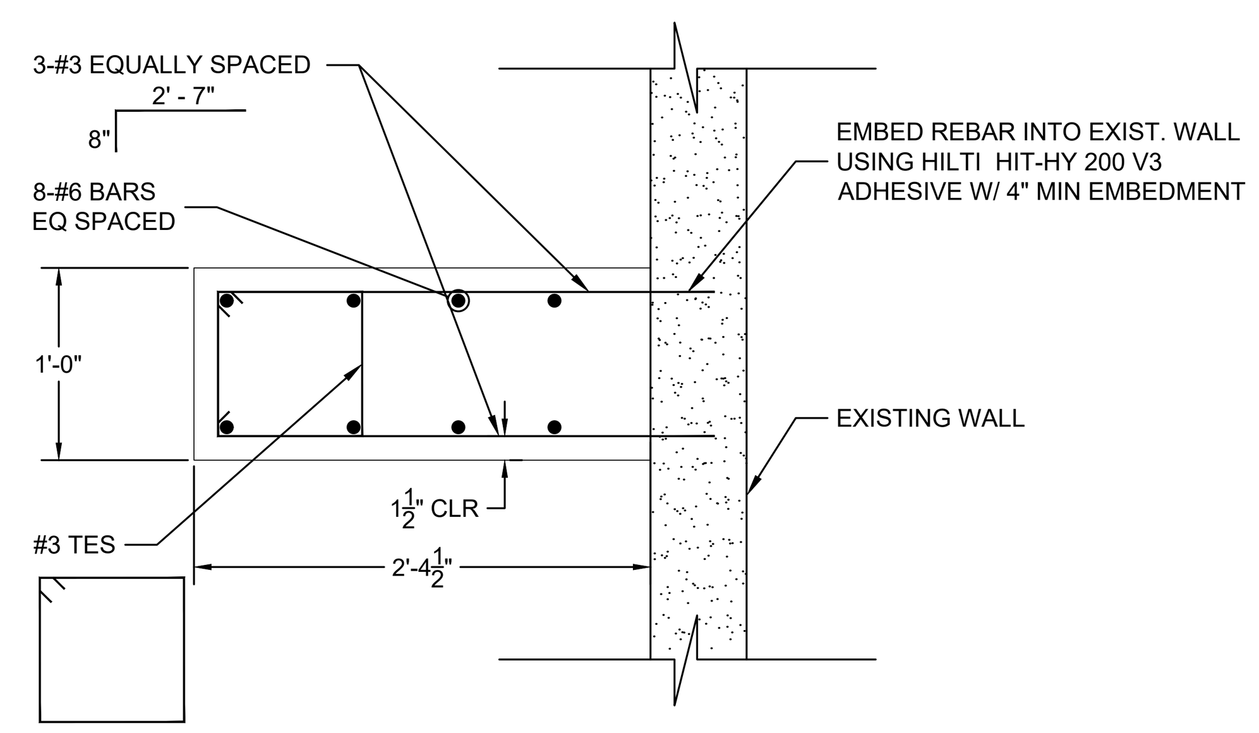
B
S-201
CMU WALL AND PEMB FACADE AT GRADE BEAM
SCALE: 3/4" = 1'-0"



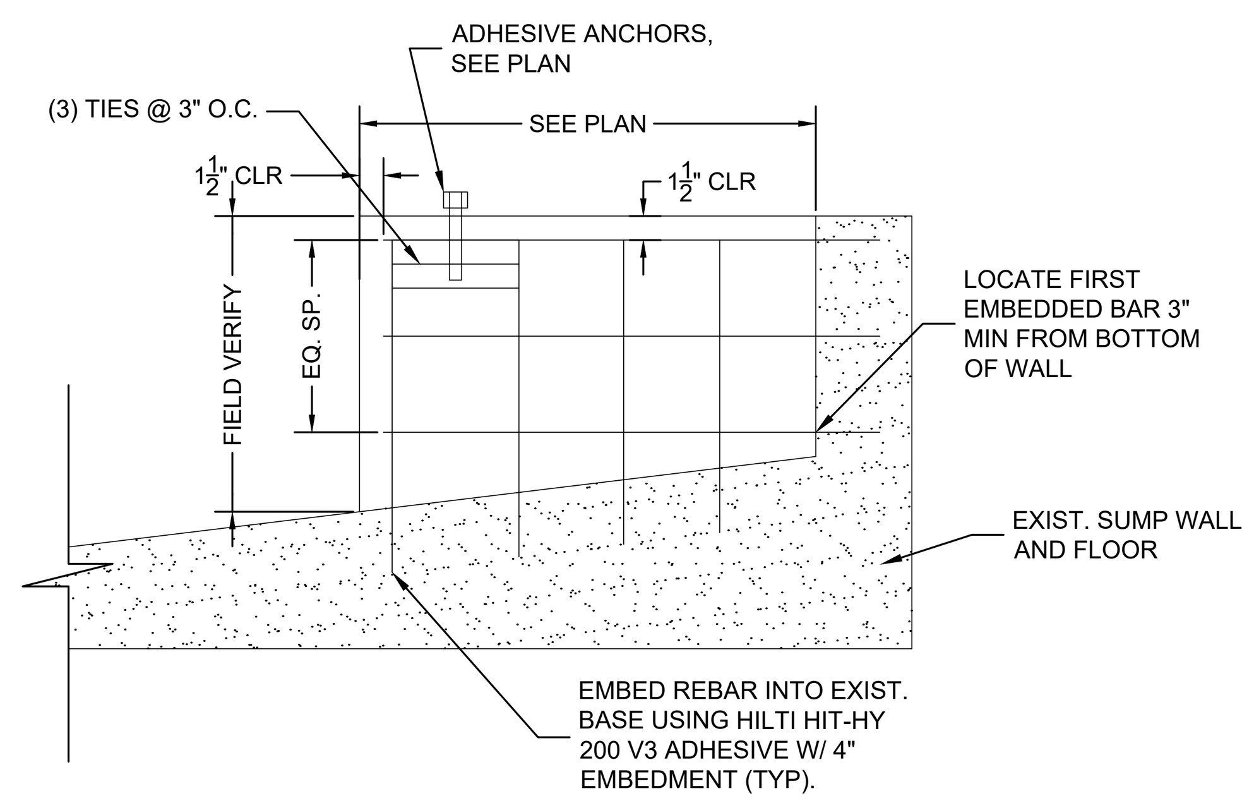
C
S-201
TYPICAL GRADE BEAM AT OVERHEAD DOOR
SCALE: 3/4" = 1'-0"



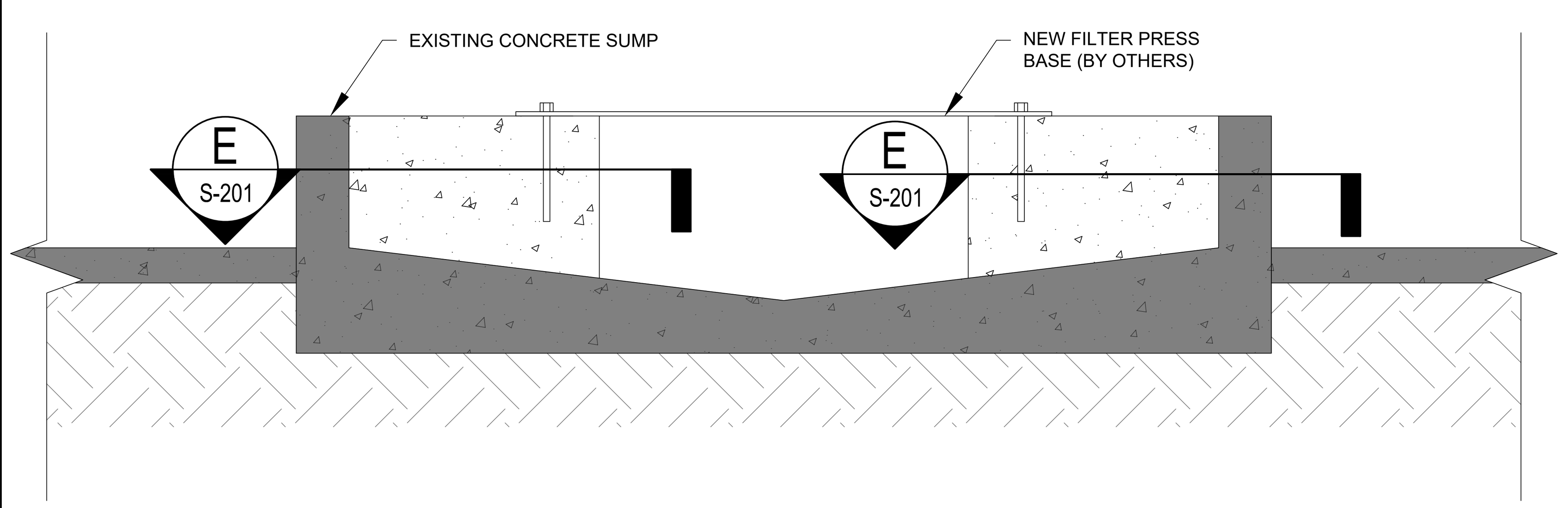
D
S-201
TRENCH DRAIN DETAIL
SCALE: 1" = 1'-0"



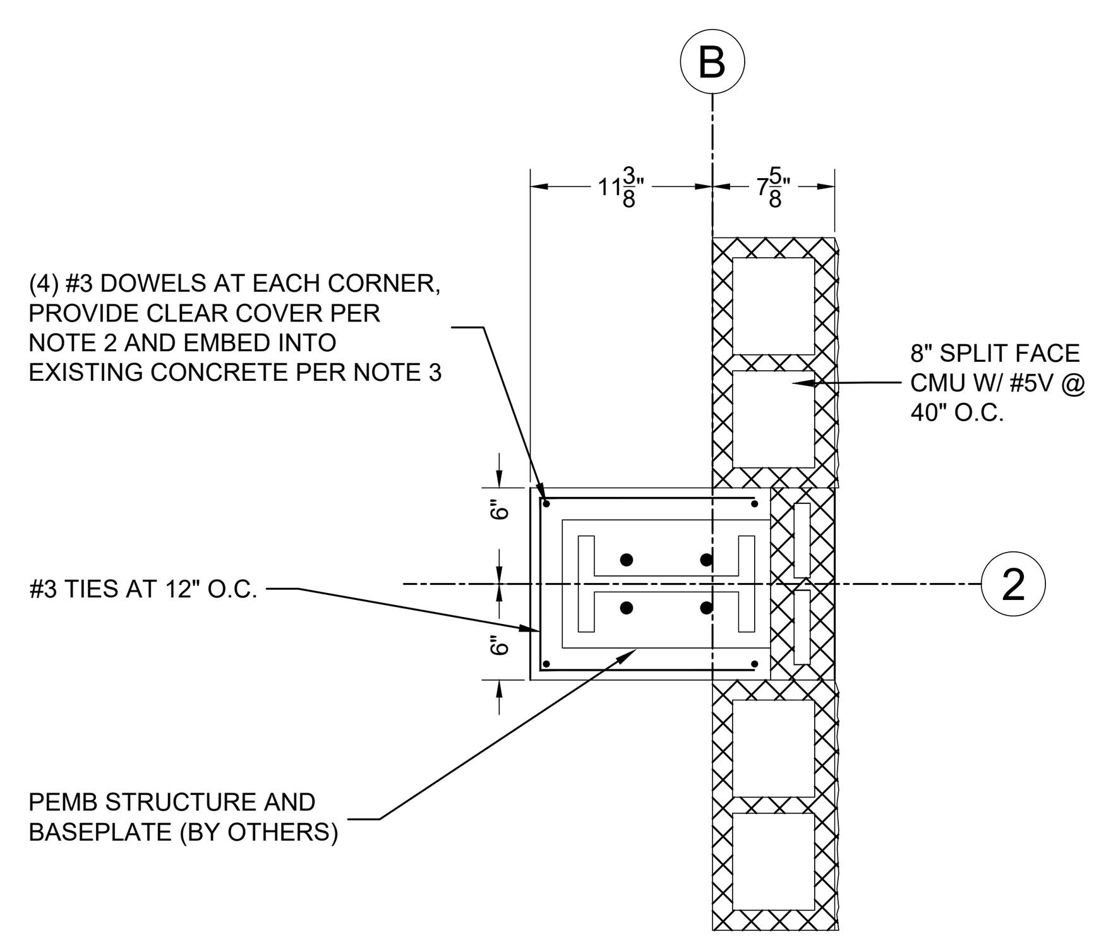
E
S-201
CONCRETE PEDESTAL REINFORCEMENT
SCALE: 1" = 1'-0"



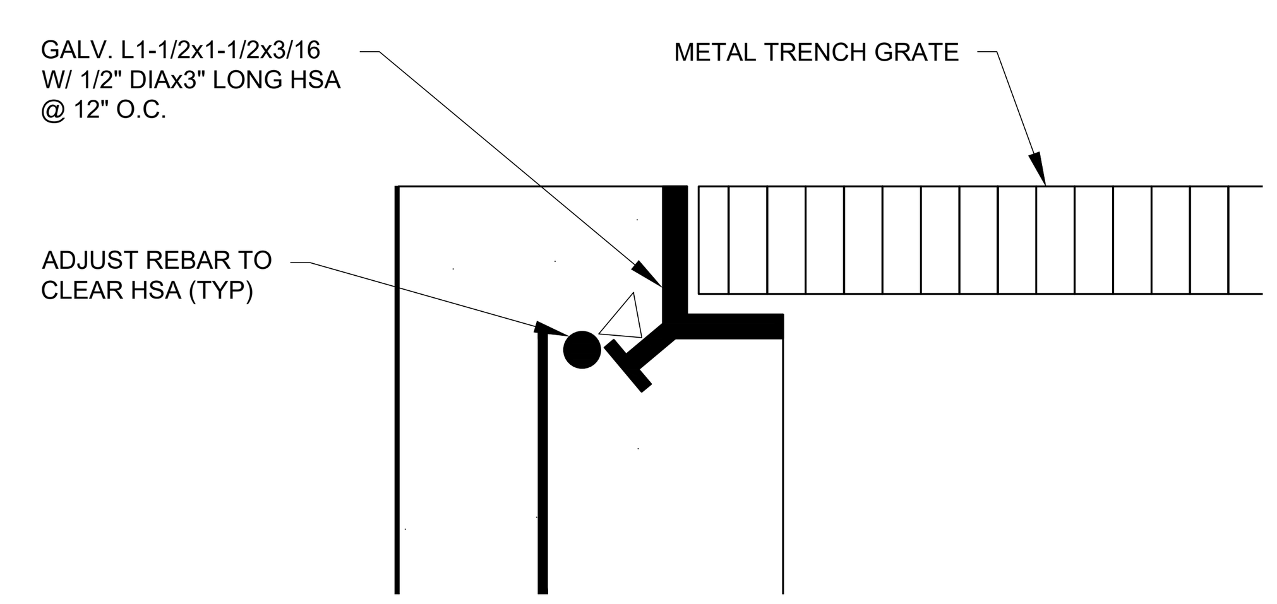
F
S-201
CONCRETE PEDESTAL EMBEDMENT INTO SUMP
SCALE: 1" = 1'-0"



G
S-201
CONCRETE SUMP SECTION
SCALE: 1/2" = 1'-0"



H
S-201
PEMB COLUMN AT CMU WALL
SCALE: 1" = 1'-0"



I
S-201
TRENCH GRATE LEDGE DETAIL
SCALE: 1" = 2'-0"

NOTES:

1. AFTER INSTALLATION OF PEMB STRUCTURE AND ANCHORS, FORM AND FILL ENTIRE VOID AROUND COLUMN WITH CONCRETE AND REBAR SHOWN.
2. PROVIDE 1-1/2" CLEAR COVER TO ALL REBAR SHOWN IN ABOVE VIEW.
3. EMBED DOWELS INTO EXISTING GRADE BEAM USING HILTI HIT-HY 200 V3 ADHESIVE ANCHORS W/ MIN 4" EMBEDMENT.

Notice of Extended Payment Provision

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REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone (505) 892-5141 Fax (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

FOUNDATION DETAILS

WENDY L AMANN NEW MEXICO 17657 LICENSED PROFESSIONAL ENGINEER 5/10/24

PROJECT NO.	R316613.01
DESIGNED BY:	LAB
DRAWN BY:	LAB
CHECKED BY:	MRD
DATE:	APRIL 2024
DPW CHK:	

SHEET:
S-201

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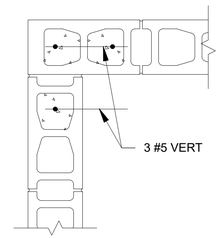
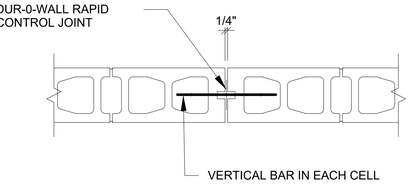
Last Saved:5/9/2024 1:10:46 PM, dabeyta



C AT WALL CORNER

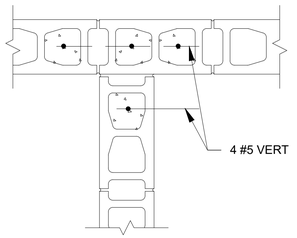
HORIZONTAL JOINT REINF. NOT SHOWNFOR CLARITY, PROVIDE PREFABRICATED CORNER REINF.



D AT WALL CONSTRUCTION JOINT

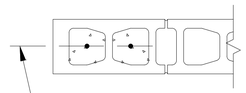
NOTES:

1) JOINT TO BE CONTINUOUS WITHOUT INTERRUPTION FROM FOUNDATION TO TOP OF WALL.
2) HORIZONTAL REINFORCING AND BOND BEAMS SHALL BE DISCONTINUOUS AT WALL JOINT.
3) DO NOT LOCATE JOINT OVER OPENING OR WITHIN JAMB
4) SEE STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
5) COORDINATE LOCATION OF JOINTS WITH ARCH'L. DRAWINGS



A AT WALL INTERSECTION

HORIZONTAL JOINT REINFORCING NOT SHOWN FOR CLARITY, PROVIDE PREFABRICATED INTERSECTION REINF.



#5 VERTICAL FOR	
BARS	WIDTHS OF OPENING
1	UP TO 4'-0"
2	> 4'-0"& UP TO 8'-0"
3	> 8'-0"& UP TO 13'-4"

B AT WALL JAMB

NOTES:

1) HORIZONTAL JOINT REINFORCING NOT SHOWN FOR CLARITY
2) THIS DETAIL IS FOR 8" CMU WALL OPENING NOT TO EXCEED 13'-4"

A / S-202 TYP PLAN DETAILS OF INTERIOR CMU WALL

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

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Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87174
Phone: (505) 892-3441 Fax: (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

CMU WALL DETAILS

WENDY L AMANN
NEW MEXICO
17857
LICENSED PROFESSIONAL ENGINEER
5/10/24

PROJECT NO.	R316613.01
DESIGNED BY:	LAB
DRAWN BY:	LAB
CHECKED BY:	MRD
DATE:	APRIL 2024
DPW CHK:	

SHEET: S-202

Plotted: 5/9/2024 1:11:48 PM, By:Alvarez, Devin
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Last Saved:5/9/2024 11:54:03 AM, dalwyrie

ELECTRICAL SYMBOL LEGEND

THIS LEGEND IS A COMPREHENSIVE COLLECTION OF ELECTRICAL SYMBOLS - NOT ALL SYMBOLS REPRESENTED HERE OR ABBREVIATIONS ARE USED ON THIS SET OF DRAWINGS

GENERAL

- 1.1 — COLUMN GRID IDENTIFIER
- 1 / ES01 — DETAIL IDENTIFIER (DETAIL NUMBER / DRAWING NUMBER SHOWING DETAIL)
- AHU-1 / A1/ES102 — EQUIPMENT IDENTIFIER
- MATCH LINE / A1/ES101 — MATCH LINE IDENTIFIER
- TV / 12 — RISER IDENTIFIER
- 1/E101 — SECTION IDENTIFIER (DRAWING NUMBER SHOWING SECTION / SECTION LETTER)
- 1 — SHEET KEY NOTE IDENTIFIER
- 100 — ROOM NUMBER
- 1 — REVISION IDENTIFIER
- E01-1 — MATERIAL SCHEDULE KEY

SERVICE and DISTRIBUTION

- DISTRIBUTION SWITCHBOARD
- BRANCH CIRCUIT PANELBOARD
- CONTROL OR COMMUNICATIONS PANEL
- TELEPHONE EQUIPMENT OR TERMINAL BOARD
- UTILITY METER AND BASE (DIRECT METER)
- UTILITY CT METER CABINET
- UTILITY METER PEDESTAL AND PANEL

SITE

- G1 — BOLLARD LUMINAIRE
- GROUND ROD OR EXOTHERMIC WELD
- POWER POLE
- POLE-04 / G1 / A-B — POLE MOUNTED LUMINAIRE (PHASE CONNECTION / BASE COORDINATE TABLE IDENTIFIER)
- FLUSH IN-GRADE JUNCTION BOX
- T — PAD MOUNTED TRANSFORMER
- S — PAD MOUNTED SWITCH
- Q — PAD MOUNTED METERING
- OP — OVERHEAD POWER
- OT — OVERHEAD TELEPHONE
- OTV — OVERHEAD CATV (VIDEO)
- UE — UNDERGROUND POWER
- UT — UNDERGROUND TELEPHONE
- UTV — UNDERGROUND CATV (VIDEO)

CIRCUITS

- CONCEALED CIRCUIT RACEWAY (NOT BELOW SLAB)
- EXPOSED CONDUIT
- FLEXIBLE CONDUIT
- UNDERGROUND OR EMBEDDED CIRCUIT RACEWAY
- EXISTING CIRCUIT RACEWAY TO REMAIN
- EXISTING CIRCUIT RACEWAY TO BE REMOVED (DEMO)
- RACEWAY DROP (DOWN)
- RACEWAY RISE (UP)
- CONCEALED ACCESSIBLE JUNCTION BOX
- EMERGENCY CIRCUIT JUNCTION BOX
- PULL BOX
- CIRCUITING (GROUND / NEUTRAL / PHASE)
- CIRCUIT IDENTIFIER (L1A-2,4,6 — CIRCUIT NUMBERS / PANELBOARD NAME)
- IC — COMMUNICATIONS RACEWAY HOMERUN
- CABLE TRAY (FIRE STOP AT RATED WALLS)

SWITCHES

- S — SNAP SWITCH
- T — TIME SWITCH
- OCCUPANCY SENSOR

KEYS

2	TWO POLE
3	THREE-WAY
3P	THREE POLE
4	FOUR-WAY
A	DIGITAL PROGRAMMABLE 7-DAY ASTRONOMIC
D	WALL BOX DIMMER
K	KEY OPERATED
P	PILOT LIGHT
P*	PILOT LIGHT LOCATOR
C	SPOT MOMENTARY CENTER OFF
M	OCCUPANCY SENSOR
T	MANUAL MOTOR STARTER
V	VACANCY SENSOR

OUTLETS and DEVICES

KEYS

GFI	GROUND FAULT INTERRUPTER TYPE
WP	WEATHERPROOF COVER
WR	WEATHER RESISTANT DEVICE
A,B,C	RECEPTACLE SCHEDULE KEY - REFER TO SCHEDULE
+16	MOUNTING HEIGHT INCHES AFF TO OUTLET CENTER
IUC	IN-USE WEATHERPROOF COVER

- FLUSH WALL OUTLET
- SIMPLEX RCP
- DUPLEX RCP
- DUPLEX RCP GFI
- DOUBLE DUPLEX RCP
- SPLIT WIRED DUPLEX RCP
- FLUSH FLOOR BOX w/ DUPLEX RCP
- RECEPTACLE AS KEYED
- NEMA 4 (FD) SURFACE OUTLET OR JUNCTION BOX
- FLUSH CLOCK RCP
- 1T2D — TELE/DATA OUTLET (TELE JACKS DATA JACKS)
- FLUSH FLOOR BOX FOR COMMUNICATIONS
- TV — RECESSED COMBO DUPLEX RCP AND VIDEO CONNECTORS
- 1T2D — FLUSH FLOOR BOX w/ DOUBLE DUPLEX RCP AND COMM PORTS (TELE JACKS DATA JACKS)
- FLOOR DUCT, J-BOX, PRESETS, AND ACTIVATION (ACTIVATION / PRESET (DO NOT REMOVE MUD CAP) / J-BOX w/ FLUSH COVER)

LIGHTING

- A1 — TROFFER (SWITCH LEGS / LUMINAIRE SCHEDULE KEY)
- A1 — SHADING INDICATES ONE DRIVER/BALLAST UNSWITCHED FOR NIGHT LIGHT
- B1 — CLG SURFACE or PENDANT MTD
- B2 — CHANNEL MTD
- +78 B3 — WALL SURFACE MTD FLUORESCENT (MOUNTING HEIGHT TO OUTLET CENTER)
- B4 — CLG or SOFFIT RECESSED
- D1 — LAY-IN CLG RECESSED
- D2 — CLG SURFACE or PENDANT MTD
- D3 — WALL SURFACE MTD
- C2 — SURFACE MTD TRACK
- SURFACE MTD LED RIBBON IN TRACK
- E1 — CLG MTD EXIT LUMINAIRE (SHADING INDICATES FACES / ARROWS INDICATE DIRECTIONAL CHEVRONS)
- E1 — WALL MTD EXIT LUMINAIRE

DISTRIBUTION DIAGRAMS

- 200 / 3 — CIRCUIT BREAKER, 200-AMP 3-POLE
- 200 / 3 — CIRCUIT BREAKER w/ SHUNT TRIP
- A — CIRCUIT SCHEDULE IDENTIFIER
- 1200:5 — CURRENT TRANSFORMERS (3)
- 100 — FUSES, 100-AMP
- GROUND CONNECTION POINT
- Q — METERING DEVICE
  - A AMPERE METER
  - V VOLT METER
  - Q WATT-HOUR METER
  - VR VAR METER
  - W WATT METER
  - AS PHASE SELECTOR SWITCH
- 4:1 — POTENTIAL TRANSFORMER
- 200 — SWITCH, 200 AMP
- XF1 — POWER TRANSFORMER
- 5,000A SCC — AMPS SHORT-CIRCUIT CURRENT

EQUIPMENT

- M — MOTOR
- DISCONNECT SWITCH - NON-FUSED OR MCS
- DISCONNECT SWITCH - FUSED or CB or MCP
- MAGNETIC MOTOR STARTER
- COMBINATION DISCONNECT AND STARTER
- LIGHTING CONTACTOR
- AUTOMATIC DOOR OPERATOR
- FSD — FIRE/SMOKE DAMPER
- VFD — VARIABLE FREQUENCY DRIVE
- VAV — VARIABLE AIR VOLUME UNIT

FIRE ALARM

- WALL MTD STROBE
- WALL MTD HORN/STROBE
- WALL MTD MANUAL PULL STATION
- CLG MTD HEAT DETECTOR
- CLG MTD SMOKE DETECTOR
- CLG MTD STROBE
- SYSTEM DEVICE
  - DD DUCT SMOKE DETECTOR
  - ST DUCT DETECTOR TEST STATION
  - DH ELECTROMAGNETIC DOOR HOLDER
  - FS SPRINKLER ZONE FLOW SWITCH
  - TS SPRINKLER VALVE TAMPER SWITCH
  - M MONITOR MODULE
  - R RELAY CONTROL MODULE
- FACP — SYSTEM PANEL OR CABINET
  - FACP CONTROL PANEL
  - RAP REMOTE ANNUNCIATOR PANEL
  - FATC TERMINAL CABINET
  - APS NOTIFICATION APPLIANCE AUX POWER SUPPLY
- FA — FIRE ALARM SYSTEM CIRCUITS
- WIRING MARKS INDICATE (L to R):
  - 24 VDC POWER CCT
  - SIGNAL LOOP CCT
  - NOTIFICATION APPLIANCE CCT
  - INITIATING CCT
  - DOOR HOLDER POWER CCT
  - FIRE DOOR RELEASE OR MOTOR CONTROL CCT
  - 2#14 AWG SPARE
  - 1 TSP RS-485
  - 2 TSP RS-232

COMMUNICATION and SIGNAL

- A / L — SOUND SYSTEM DEVICE
  - A BUZZER
  - B BELL
  - C CALL SWITCH
  - H CHIME
  - L ZONE LOUDSPEAKER
  - M MICROPHONE INPUT JACK
  - P CALL LIGHT
  - R RELAY
  - T TRANSFORMER
  - V VOLUME CONTROL
- COMBINED FLUSH WALL CLOCK and SPEAKER UNIT
- SEALED STUB THROUGH WALL ABOVE CLG
- VID — LOCATION FOR VIDEO PROJECTOR
- WAP — LOCATION FOR WIRELESS ACCESS POINT
- IC — INTERCOM SYSTEM
- SN — SOUND (AUDIO) SYSTEM
- TV — TELEVISION (VIDEO) SYSTEM
- DA — COMPUTER NETWORK (LAN) SYSTEM
- TE — TELEPHONE (VOICE) SYSTEM
- BL — BELL ANNUNCIATOR SYSTEM
- CK — CLOCK SYSTEM

SECURITY and ACCESS

- M — SECURITY SYSTEM DEVICE
  - C OUTLET FOR CAMERA
  - G GLASS BREAK DETECTOR
  - K KEYPAD
  - M MOTION SENSOR
  - R CARD READER
  - S FLUSH MAGNETIC DOOR SWITCH
  - SS SURFACE MAGNETIC DOOR SWITCH
  - T OUTLET FOR VIDEO MONITOR
  - V OUTLET FOR VIDEO RECORDER
- ACCESS DOOR CONTROLLER
- AC — ACCESS CONTROL CIRCUIT
- SE — SECURITY SYSTEM CIRCUIT

ABBREVIATIONS

A	AMPERE
AC	ABOVE COUNTER or ALTERNATING CURRENT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AFI	ARC FLASH INTERRUPT
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPS INTERRUPTING CAPACITY
ALT	ALTERNATE
BAS	BUILDING AUTOMATION SYSTEM
BFG	BELOW FINISH GRADE
C	CONDUIT
CB	CIRCUIT BREAKER
CCT	CIRCUIT
CLG	CEILING
CU	COPPER
DN	DOWN
DWG	DRAWING
EGC	EQP GROUNDING CONDUCTOR
ELE	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
EQP	EQUIPMENT
EXT	EXTERIOR
FLEX	FLEXIBLE CONDUIT
FLU	FLUORESCENT
FSD	FIRE-SMOKE DAMPER
FT	FEET
FVNR	FULL-VOLTAGE NON-REVERSING
G,GND	GROUND
GA	GAUGE
GEC	GND ELECTRODE CONDUCTOR
GFI	GND FAULT INTERRUPT
GRC	GALVANIZED RIGID CONDUIT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HPS	HIGH-PRESSURE SODIUM
IN	INCH
INC	INCANDESCENT
INT	INTERIOR
ISP	INTERNET SERVICE PROVIDER
IUC	IN-USE COVER
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LT	LIQUID-TIGHT
LTG	LIGHTING
MAX	MAXIMUM
MBJ	MAIN BONDING JUMPER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MDC	MAIN DISTRIBUTION CENTER
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NC	NORMALLY CLOSED
NEC	NATION ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOC.
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
P	PHASE, POLE
PB	PULL BOX
PNL	PANEL BOARD
PPC	POLYESTER POWDER COAT
PROV	PROVISION
PVC	POLYVINYL CHLORIDE
RCP	RECEPTACLE
RTE	REQUEST TO EXIT
SE	SERVICE EQUIPMENT
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATIONS
SQ	SQUARE
S/S	STAINLESS STEEL
TEB	TELEPHONE EQUIPMENT BOARD
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORIES
UTR	UP THROUGH ROOF
V	VOLT
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
w/	WITH
w/o	WITHOUT
WP	WEATHERPROOF
XF	TRANSFORMER

NAMING CONVENTION

SYSTEM NUMBER - SERVICE or MAIN SWITCHBOARD NUMBER
(NOT USED FOR SMALL SYSTEMS, CONTROLS, or CONTACTORS)

EQUIPMENT DESCRIPTION

DB	DIMMING BALLAST CABINET	MS	MAIN SWITCH BOARD SERVICE EQUIP
DP	DISTRIBUTION PANEL BOARD	PB	PANEL BOARD or LOAD CENTER
DR	DIMMER RACK or PANEL	PQ	PAD-MTD METERING
DS	DISTRIBUTION SWITCH BOARD	PS	PAD-MTD SWITCH
EB	EMERGENCY LTG BATT/INVERTER	PX	PAD-MTD TRANSFORMER
EG	STAND-BY ENGINE-GENERATOR	RC	RELAY CABINET
LC	LTG CONTROLS CABINET	SP	SURGE PROTECTION
MC	MOTOR CONTROL CENTER	TS	TRANSFER SWITCH
MP	MAIN PANEL BOARD SERVICE EQUIP	XF	DRY TYPE TRANSFORMER

MAIN SWITCHBOARD CIRCUIT NUMBER
(NOT USED FOR SMALL SYSTEMS, CONTROLS, or CONTACTORS) - NOT APPLICABLE

VOLTAGE CODE
L 480/277 P 208/120 or 240/120 - NOT APPLICABLE

SEQUENTIAL EQUIPMENT IDENTIFIER

Example: 2DS2L1

GENERAL NOTES

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED

THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY 1"

A ADOBE ACROBAT® READER 8.0 OR LATER OR OTHER VIEWER IS REQUIRED TO VIEW ALL PORTIONS OF THESE DOCUMENTS AS A PDF

B THE FOLLOWING NOTES APPLY TO ALL ELECTRICAL WORK INCLUDED IN THE CONTRACT UNLESS NOTED OTHERWISE

C THE WORD PROVIDE SHALL MEAN TO FURNISH AND INSTALL - EXCEPTIONS SHALL BE NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS

D DO NOT SCALE THE DRAWINGS TO DETERMINE THE LOCATION OF LUMINAIRES, OUTLETS, OR EQUIPMENT - REFER TO THE OTHER DRAWINGS IN THIS SET (ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ETC) AND FIELD MEASUREMENTS FOR ALL PROJECT DIMENSIONS

E COORDINATE ALL SYSTEM DOWNTIME AND DISCONNECTION WITH THE OWNER'S REPRESENTATIVE - ALLOW A MINIMUM 2-DAY NOTICE

F ALL EXPOSED CONDUIT, FITTINGS, BOXES, HANGERS, SUPPORTS, CLIPS, ETC IN FINISHED AND EXTERIOR AREAS SHALL BE PAINTED REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS

G ALL PROTECTIVE DEVICES IN THIS PROJECT HAVE INTERRUPTING RATINGS GREATER THAN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE LOCATION OF THE DEVICE - "ENGINEERED SERIES COMBINATION SYSTEM" OR "TESTED SERIES COMBINATION SYSTEM" DESIGN IS NOT USED FOR THIS PROJECT

H SPACES FOR INFORMATION TECHNOLOGY SYSTEMS AND OTHER COMMUNICATION SYSTEMS IN THIS PROJECT COMPLY WITH CHAPTERS 1 THROUGH 4 OF THE NEC - NEC ARTICLE 645 "INFORMATION TECHNOLOGY EQUIPMENT" IS NOT UTILIZED FOR THIS PROJECT

I THE LOCATION AND ROUTING OF EXISTING ELECTRICAL ITEMS ARE SHOWN APPROXIMATE BASED ON THE BEST AVAILABLE INFORMATION - ACTUAL LOCATIONS AND CIRCUIT ROUTING MAY BE DIFFERENT - ALL LOCATIONS AND ROUTING OF EXISTING ELECTRICAL ITEMS AND CIRCUITS MUST BE FIELD VERIFIED BY THE CONTRACTOR - CIRCUIT NUMBERS SHOWN ARE FROM THE RECORD DRAWINGS AND HAVE NOT BEEN VERIFIED

J EXISTING ELECTRICAL ITEMS THAT ARE TO REMAIN ARE SHOWN IN BLUE COLOR - EXISTING ELECTRICAL ITEMS THAT ARE TO BE REMOVED ARE SHOWN IN RED COLOR - EXISTING ELECTRICAL ITEMS THAT ARE NOT INVOLVED WITH THE WORK OF THIS CONTRACT MAY NOT BE SHOWN

K EXPOSED, CONCEALED, AND BURIED RACEWAY ARE SHOWN BY DRAWING LINE TYPE - REFER TO THE ELECTRICAL SYMBOL LEGEND FOR LINE TYPE DEFINITIONS

L REFER TO DEMOLITION PLANS IN THIS SET OF DRAWINGS FOR ELECTRICAL WORK NOT SHOWN ON THE ELECTRICAL DRAWING SHEETS

ELECTRICAL DRAWINGS

No.	TITLE
E001	GENERAL INFORMATION
E101	LIGHTING PLAN
E102	POWER AND COMM PLAN
E103	ROOF PLAN
E104	DEMOLITION PLAN
E105	ROOF DEMOLITION PLAN
E501	DIAGRAMS AND DETAILS
E601	SCHEDULES

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

811 Know what's below. Call before you dig.
TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1			

REVISIONS (OR CHANGE NOTICES)

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone: (505) 892-5141 Fax: (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ELECTRICAL
GENERAL INFORMATION

5/10/2024 — JEANNIS L. WETTSTEIN — NEW MEXICO — 9726 — REGISTERED PROFESSIONAL ENGINEER

PROJECT NO.	R316613.01
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	5/10/2024
DPW CHK:	

SHEET: E001

GENERAL SHEET NOTES

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED

THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY 1"

REFER TO GENERAL NOTES ON DRAWING E001

A REFER TO REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS OF CEILING MOUNTED LUMINAIRES AND DEVICES

B BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG - CONDUIT SHALL BE MINIMUM 3/4"C

C BRANCH CIRCUIT CONDUCTORS WITH A CIRCUIT LENGTH FROM THE OVERCURENT PROTECTION DEVICE GREATER THAN 100-FT SHALL BE SIZED NOT TO EXCEED 2.0% VOLTAGE DROP TO THE LOAD CENTER

D SHADED LUMINAIRE SYMBOLS INDICATE LUMINAIRES THAT SHALL HAVE A SINGLE-LAMP BALLAST OR DRIVER, A SEPARATE EMERGENCY LAMP, OR THE ONLY LAMP BALLAST OR DRIVER CONNECTED TO THE UNSWITCHED CIRCUIT FOR NIGHT LIGHT OR INTEGRAL EMERGENCY LTG

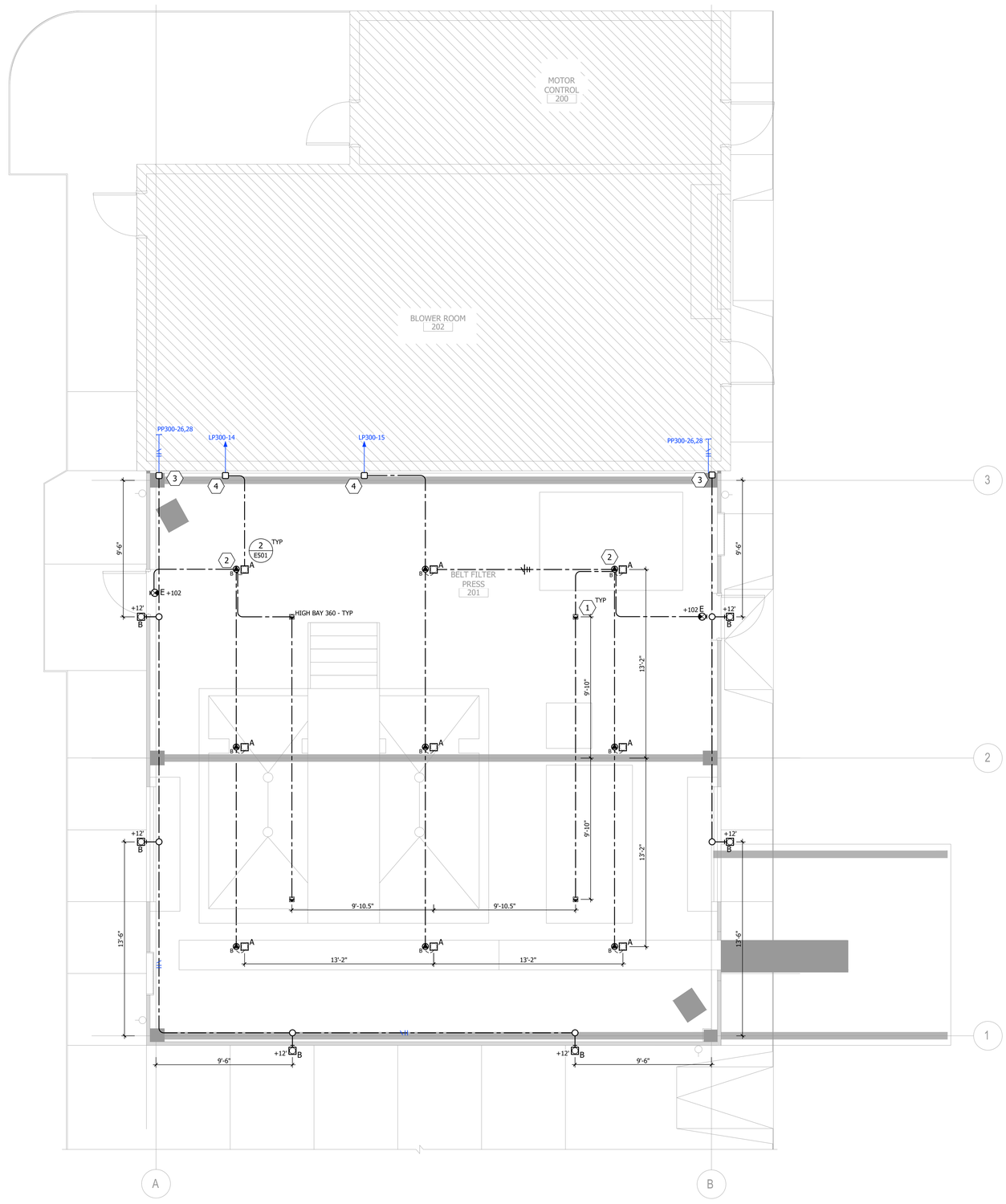
E WHERE DUAL SWITCHES ARE INDICATED TO CONTROL LUMINAIRES IN AN AREA, ONE SWITCH SHALL CONTROL 67% OF THE LUMINAIRE OUTPUT AND THE OTHER SWITCH SHALL CONTROL THE REMAINDER

F ALL CIRCUITS SHALL HAVE DEDICATED (UNSHARED) NEUTRAL CONDUCTORS UNLESS MULTI-POLE CIRCUIT BREAKERS ARE SHOWN FOR THE CIRCUITS IN THE PANEL BOARD SCHEDULES - PROVIDE HANDLE TIES FOR 1-POLE CIRCUIT BREAKERS ON CIRCUITS WITH SHARED NEUTRALS

G ALL CIRCUIT NUMBER LABELS AT OUTLETS, RECEPTACLES, AND SWITCHES IN FINISHED AREAS SHALL BE LOCATED ON THE CONDUCTORS INCLUDING GROUNDED CONDUCTORS OR BEHIND THE DEVICE PLATE ALONG THE FRONT SIDE OR BOTTOM EDGE OF THE OUTLET BOX OR DEVICE RING - NOT ON THE DEVICE PLATE OR THE DEVICE

SHEET KEYNOTES

1 PROVIDE LOW-VOLTAGE OCCUPANCY SENSOR LTG CONTROL IN THIS ROOM - SURFACE MOUNT SENSOR ON CLG
2 PROVIDE LTG CONTROL TRANSFORMER/RELAY ON SIDE OF J-BOX
3 CONNECT TO THE EXISTING SWITCHED LTG CCT
4 CONNECT TO EXISTING LTG BRANCH CCT



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

0 2' 4' 8'

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
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1			

REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone: (505) 892-5141 Fax: (505) 892-3259

Designed For:
CITY OF SOCORRO

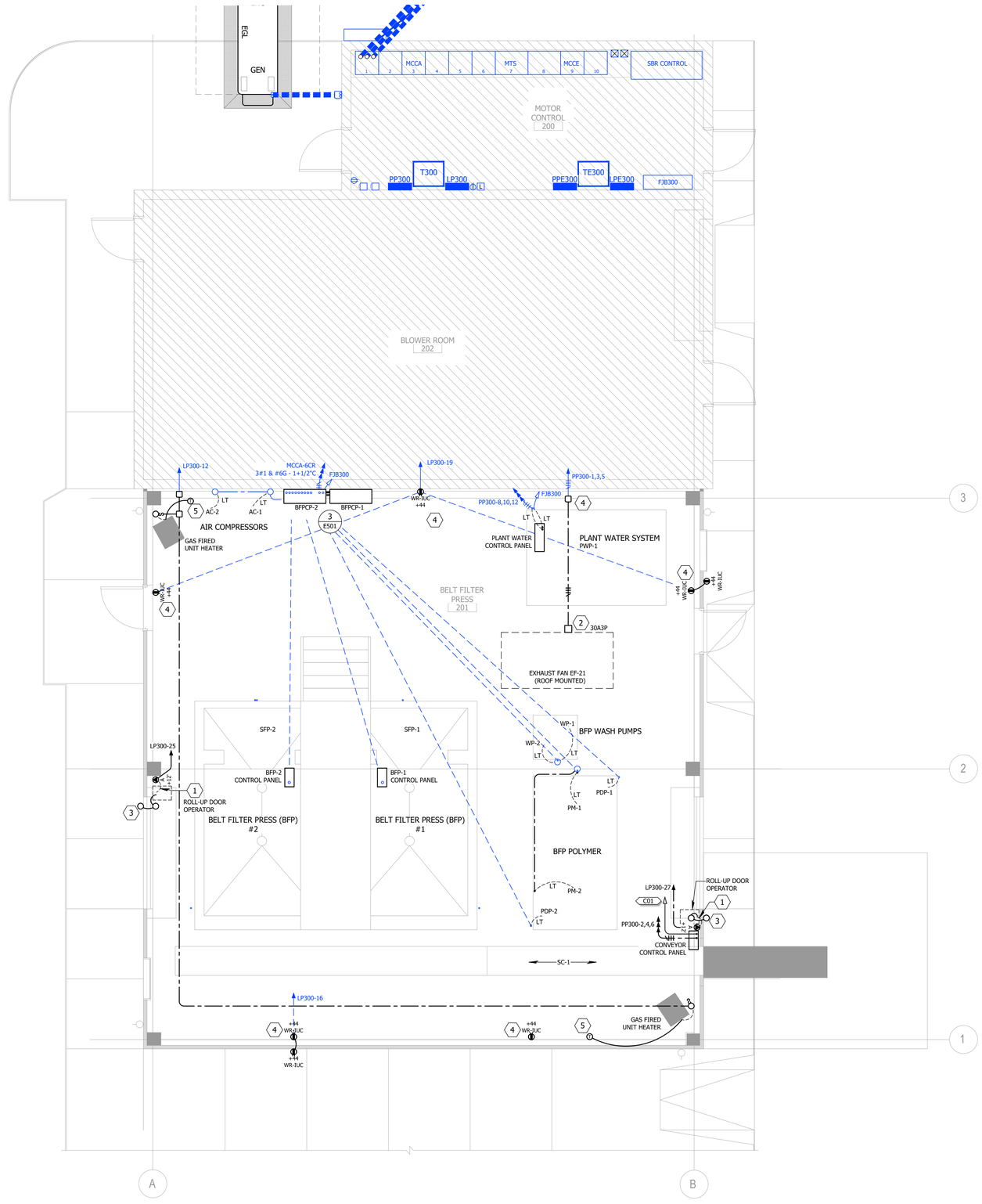
CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ELECTRICAL
LIGHTING PLAN

5/10/2024 DENNIS L. WETTERSTROM 9726 REGISTERED PROFESSIONAL ENGINEER NEW MEXICO

PROJECT NO.	R316613.01
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	5/10/2024
DPW CHK:	

SHEET:
E101



1 POWER AND COMM PLAN

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

0 2' 4' 8'

GENERAL SHEET NOTES

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THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY 1"

REFER TO GENERAL NOTES ON DRAWING E001

A REFER TO REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS OF CEILING MOUNTED DEVICES

B BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG - CONDUIT SHALL BE MINIMUM 3/4"C

C BRANCH CIRCUIT CONDUCTORS WITH A CIRCUIT LENGTH FROM THE OVERCURENT PROTECTION DEVICE GREATER THAN 100-FT SHALL BE SIZED NOT TO EXCEED 2.0% VOLTAGE DROP TO THE LOAD CENTER

D PANEL BOARDS, CABINETS, AND ELECTRICAL EQUIPMENT ARE SHOWN ON THE DRAWINGS WITH THE IDENTIFYING TEXT ON THE FRONT SIDE - THE EQUIPMENT FRONT IS TOWARD THE IDENTIFYING TEXT

E ALL CIRCUITS SHALL HAVE DEDICATED (UNSHARED) NEUTRAL CONDUCTORS UNLESS MULTI-POLE CIRCUIT BREAKERS ARE SHOWN FOR THE CIRCUITS IN THE PANEL BOARD SCHEDULES - PROVIDE HANDLE TIES FOR 1-POLE CIRCUIT BREAKERS ON CIRCUITS WITH SHARED NEUTRALS

F PROVIDE MINIMUM FOUR (4) SPARE 3/4"C STUBBED OUT ABOVE ACCESSIBLE CEILING FROM EACH NEW FLUSH PANEL BOARD SECTION FOR FUTURE USE - THESE ARE NOT SHOWN ON THE PLANS

G REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS AND BUILDING AUTOMATION SYSTEM (BAS) SHOP DRAWINGS FOR CONTROL DIAGRAMS, SEQUENCE OF OPERATION DESCRIPTIONS, AND BUILDING AUTOMATION SYSTEM POWER REQUIREMENTS - REFER TO SPEC 26 0050 Para 3.6 FOR BRANCH CIRCUITS AND OTHER POWER WIRING REQUIREMENTS NOT SHOWN ON THESE DRAWINGS

H ALL PANEL BOARD SIGNAGE, NAMEPLATES, CIRCUIT NUMBERS, AND DIRECTORIES IN FINISHED AREAS SHALL BE LOCATED BEHIND THE TRIM DOOR WHEN CLOSED

I ALL CIRCUIT NUMBER LABELS AT OUTLETS, RECEPTACLES, AND SWITCHES IN FINISHED AREAS SHALL BE LOCATED ON THE CONDUCTORS INCLUDING GROUNDED CONDUCTORS OR BEHIND THE DEVICE PLATE ALONG THE FRONT SIDE OR BOTTOM EDGE OF THE OUTLET BOX OR DEVICE RING - NOT ON THE DEVICE PLATE OR THE DEVICE

J MOUNTING HEIGHT FOR OUTLETS IS TO THE CENTER OF BOX - OUTLETS ARE TO BE +18 UNLESS NOTED OTHERWISE

SHEET KEYNOTES

1 PROVIDE CORD AND CAP AS NECESSARY FOR EQUIPMENT CONNECTION TO RECEPTACLE
2 PROVIDE HD NEMA 12/3R DISCONNECT SWITCH w/ GND KIT - LOCATE ON EQP
3 PROVIDE FLUSH 1-GANG OUTLETS AND 3/4"C FOR DOOR OPERATOR SWITCHES AND SENSORS PER SUBMITTAL
4 CONNECT TO EXISTING BRANCH CCT
5 MOUNT AND RECONNECT EXISTING THERMOSTAT

CONDUIT SCHEDULE

KEY	SIZE	FROM	TO	NOTE
C01	3/4"	CONVEYOR CONTROL	FJB300	1

NOTES
1 w/ #18TSP & #14G

NOTICE OF EXTENDED PAYMENT PROVISION:
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TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
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2			
1			

REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone: (505) 892-5141 Fax: (505) 892-3259

Designed For:
CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

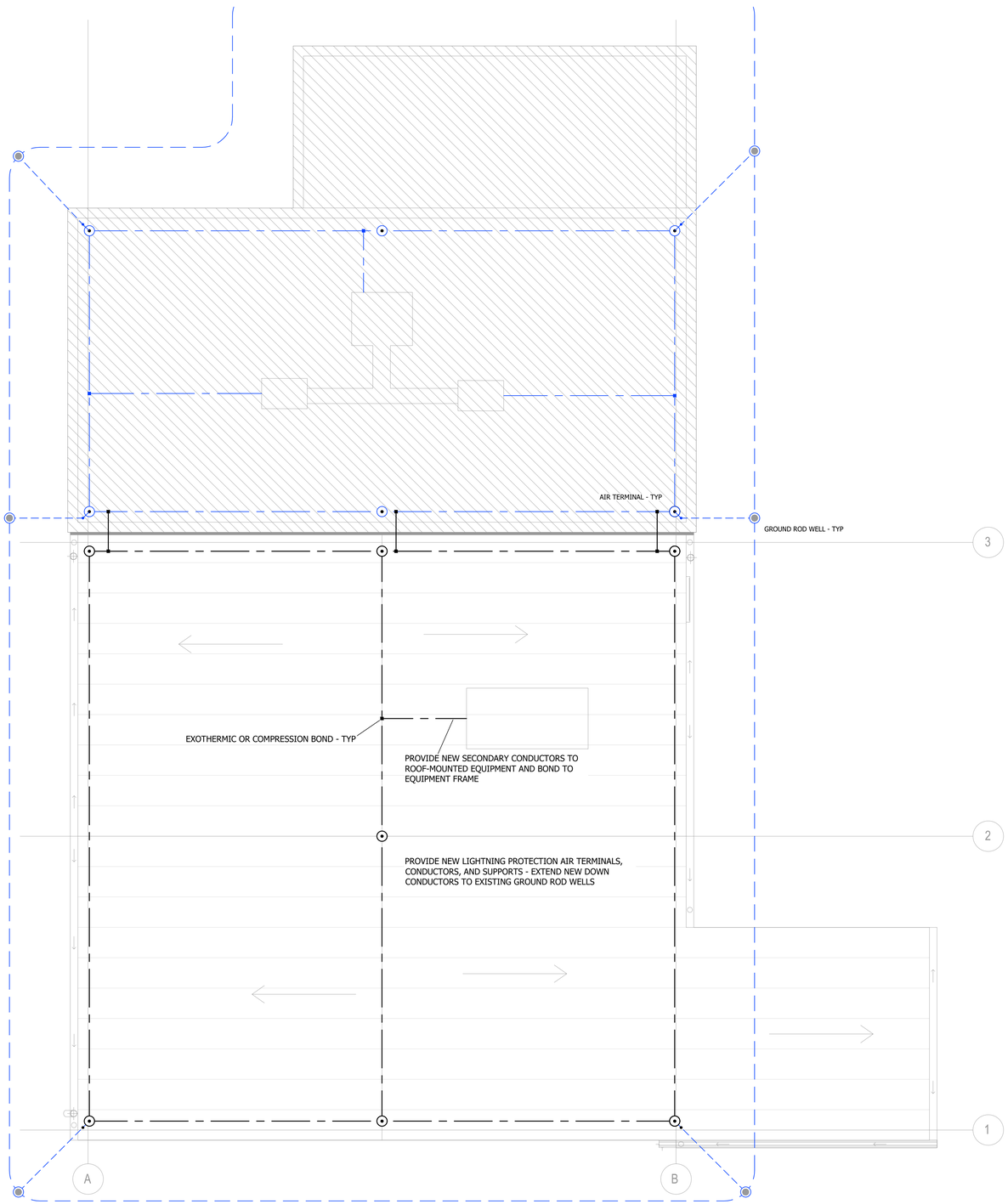
ELECTRICAL
POWER PLAN

5/10/2024
JEANIS L. WETTERSTROM
NEW MEXICO
9726
REGISTERED PROFESSIONAL ENGINEER

PROJECT NO.	R316613.01
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	5/10/2024
DPW CHK:	

SHEET:
E102

AEA PC
ELECTRICAL ENGINEERING
7401 Hawk Cr NE Suite C
Albuquerque, NM 87109 505
433 3310 AEANM.COM



GENERAL SHEET NOTES

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REFER TO GENERAL NOTES ON DRAWING E001

A REFER TO REFLECTED CEILING PLAN DRAWINGS FOR LOCATIONS OF CEILING MOUNTED DEVICES

B BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG - CONDUIT SHALL BE MINIMUM 3/4"C

C BRANCH CIRCUIT CONDUCTORS WITH A CIRCUIT LENGTH FROM THE OVERCURENT PROTECTION DEVICE GREATER THAN 100-FT SHALL BE SIZED NOT TO EXCEED 2.0% VOLTAGE DROP TO THE LOAD CENTER

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G REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS AND BUILDING AUTOMATION SYSTEM (BAS) SHOP DRAWINGS FOR CONTROL DIAGRAMS, SEQUENCE OF OPERATION DESCRIPTIONS, AND BUILDING AUTOMATION SYSTEM POWER REQUIREMENTS - REFER TO SPEC 26 0050 Para 3.6 FOR BRANCH CIRCUITS AND OTHER POWER WIRING REQUIREMENTS NOT SHOWN ON THESE DRAWINGS

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J MOUNTING HEIGHT FOR OUTLETS IS TO THE CENTER OF BOX - OUTLETS ARE TO BE +18 UNLESS NOTED OTHERWISE

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

0 2' 4' 8'

N

NOTICE OF EXTENDED PAYMENT PROVISION:
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nm811 Know what's below. Call before you dig.
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CITY OF SOCORRO

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REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone: (505) 892-5141 Fax: (505) 892-3259

Designed For:
CITY OF SOCORRO

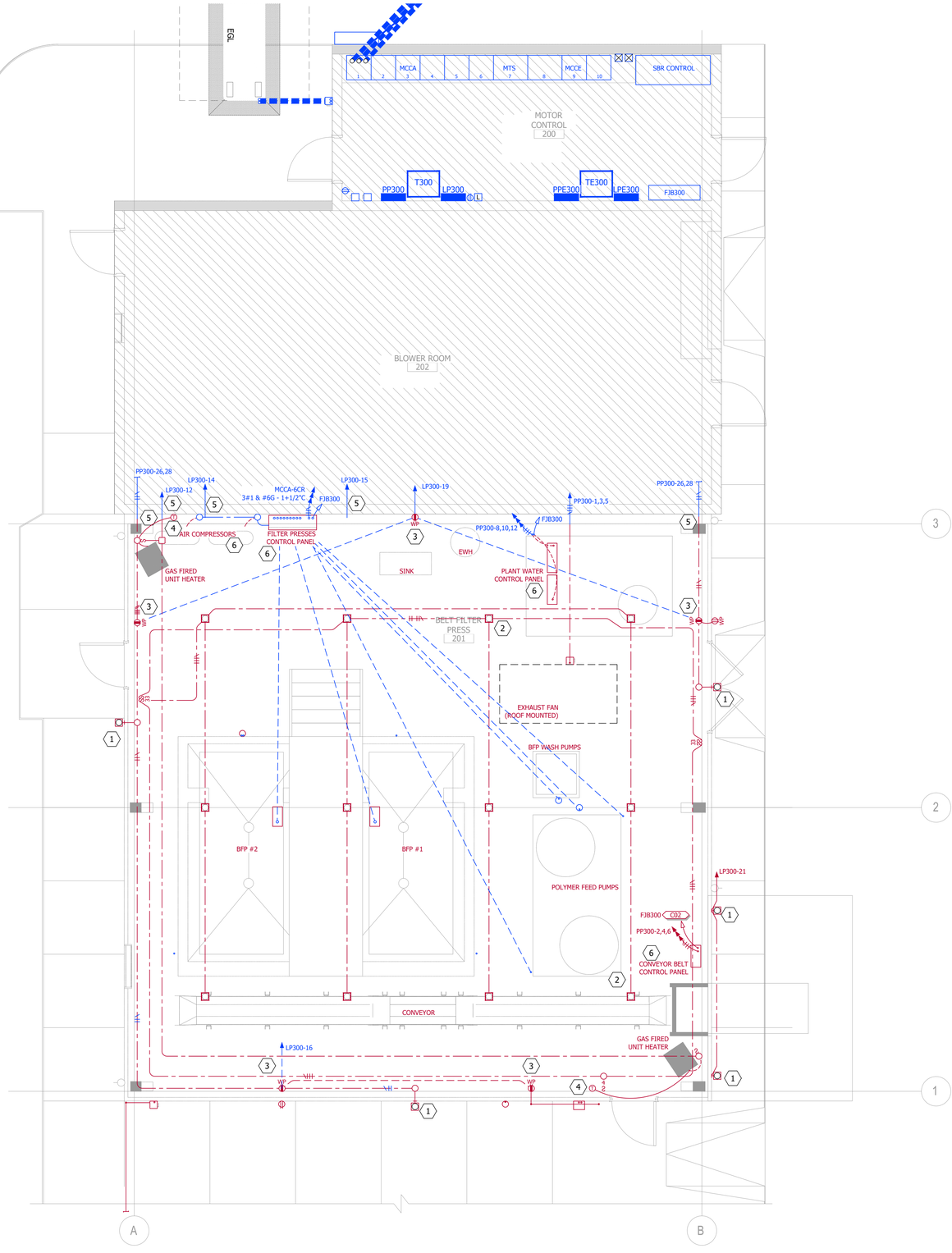
CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ELECTRICAL
ROOF PLAN

5/10/2024 ADAM IS L. WETTERSTEN NEW MEXICO 9726 REGISTERED PROFESSIONAL ENGINEER

PROJECT NO.	R316613.01
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	5/10/2024
DPW CHK:	

SHEET:
E103



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

0 2' 4' 8'

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REFER TO GENERAL NOTES ON DRAWING E001

A THE LOCATION AND ROUTING OF EXISTING ELECTRICAL ITEMS ARE SHOWN APPROXIMATE BASED ON THE BEST AVAILABLE INFORMATION - ACTUAL LOCATIONS AND CIRCUIT ROUTING MAY BE DIFFERENT - ALL LOCATIONS AND ROUTING OF EXISTING ELECTRICAL ITEMS AND CIRCUITS MUST BE FIELD VERIFIED BY THE CONTRACTOR - CIRCUIT NUMBERS SHOWN ARE FROM THE RECORD DRAWINGS OR AVAILABLE PANEL INDICES AND HAVE NOT BEEN VERIFIED

B EXISTING ELECTRICAL ITEMS THAT ARE TO REMAIN ARE SHOWN DASHED AND BLUE COLOR - EXISTING ELECTRICAL ITEMS THAT ARE TO BE REMOVED OR RELOCATED ARE SHOWN DASHED "D" AND RED COLOR - REFER TO LIGHTING PLANS FOR LOCATIONS OF RELOCATED ITEMS - EXISTING ELECTRICAL ITEMS THAT ARE NOT INVOLVED WITH THE WORK OF THIS CONTRACT MAY NOT BE SHOWN

SHEET KEYNOTES

1 REMOVE EXTERIOR LUMINAIRE AND CCT - REMOVE EMPTY OUTLET AND RACEWAY
2 REMOVE LUMINAIRES, SUPPORTS, CIRCUITS, PLATES, AND SWITCHES FROM THIS ROOM - REUSE LTG BRANCH CCT
3 REMOVE RECEPTACLES, DEVICE PLATES, AND CONDUCTORS FROM WALLS BEING REMOVED - REMOVE EMPTY OUTLETS AND RACEWAY
4 REMOVE AND REINSTALL WHERE SHOWN - HVAC THERMOSTAT
5 REUSE EXISTING BRANCH CCT CONDUCTORS
6 REMOVE EXISTING

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

ELECTRICAL ENGINEERING
7401 Hanover Gr NE Suite C
Albuquerque, NM 87109-505
433-3310 AEANM.COM

TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
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REVISIONS (OR CHANGE NOTICES)

Designed By:
HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone: (505) 892-5141 Fax: (505) 892-3259

Designed For:
CITY OF SOCORRO

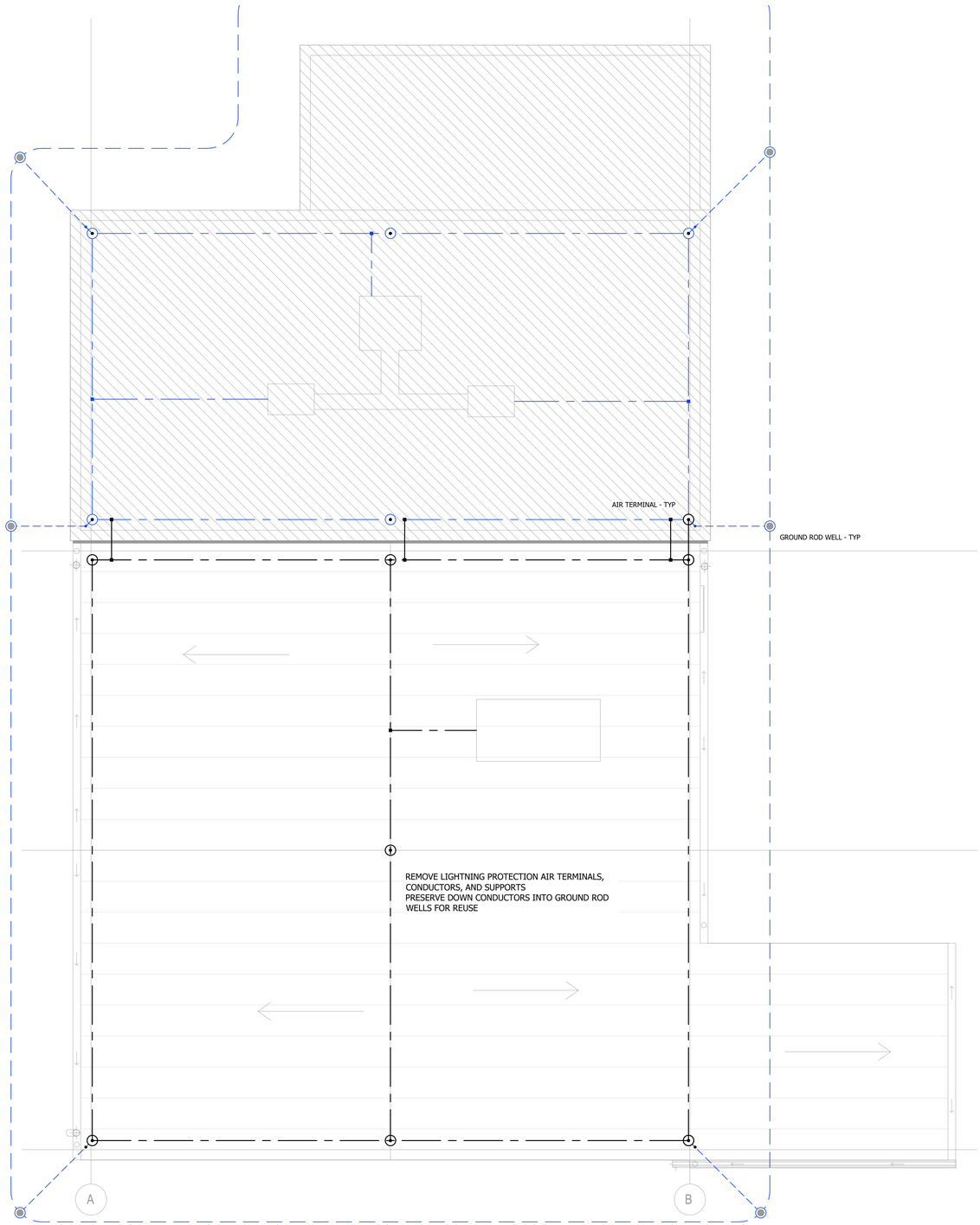
CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ELECTRICAL
DEMOLITION

5/10/2024
DENNIS L. WETTERSTROM
NEW MEXICO
13726
REGISTERED PROFESSIONAL ENGINEER

PROJECT NO.	R316613.01
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	5/10/2024
DPW CHK:	

SHEET:
E104



1 ROOF DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

0 2' 4' 8'

GENERAL SHEET NOTES

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SEALED, SIGNED, AND DATED

THIS PLOT MAY NOT BE FULL SIZE - ADJUST SCALE ACCORDINGLY 1"

REFER TO GENERAL NOTES ON DRAWING E001

A THE LOCATION AND ROUTING OF EXISTING ELECTRICAL ITEMS ARE SHOWN APPROXIMATE BASED ON THE BEST AVAILABLE INFORMATION - ACTUAL LOCATIONS AND CIRCUIT ROUTING MAY BE DIFFERENT - ALL LOCATIONS AND ROUTING OF EXISTING ELECTRICAL ITEMS AND CIRCUITS MUST BE FIELD VERIFIED BY THE CONTRACTOR - CIRCUIT NUMBERS SHOWN ARE FROM THE RECORD DRAWINGS OR AVAILABLE PANEL INDICES AND HAVE NOT BEEN VERIFIED

B EXISTING ELECTRICAL ITEMS THAT ARE TO REMAIN ARE SHOWN DASHED AND BLUE COLOR - EXISTING ELECTRICAL ITEMS THAT ARE TO BE REMOVED OR RELOCATED ARE SHOWN DASHED "D" AND RED COLOR - REFER TO LIGHTING PLANS FOR LOCATIONS OF RELOCATED ITEMS - EXISTING ELECTRICAL ITEMS THAT ARE NOT INVOLVED WITH THE WORK OF THIS CONTRACT MAY NOT BE SHOWN

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

811 Know what's below. Call before you dig. TWO WORKING DAYS BEFORE YOU DIG CALL 811 OR 260-1990

CITY OF SOCORRO

NO.	DESCRIPTION	DATE	BY
7			
6			
5			
4			
3			
2			
1	REVISIONS (OR CHANGE NOTICES)		

Designed By: HUITT ZOLLARS
333 Rio Rancho Drive NE, Suite 101
Rio Rancho, New Mexico 87124
Phone: (505) 892-5141 Fax: (505) 892-3259

Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ELECTRICAL
ROOF DEMOLITION PLAN

5/10/2024 JEANNIS L. WETTERSTROM NEW MEXICO 9726 REGISTERED PROFESSIONAL ENGINEER

PROJECT NO.	R316613.01
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	5/10/2024
DPW CHK:	

SHEET: E105

FEEDER SCHEDULE

FEEDER NAME	CONDUIT COUNT	PHASE		NEUTRAL		GROUND		P & N TYPE	INSULATION TYPE	CONDUIT		SCC AMPS	VDROP MAX %	ARC FLASH		NOTES
		QUAN	SIZE	QUAN	SIZE	QUAN	SIZE			SIZE IN	FILL %			ENERGY [1]	BOUNDARY [2]	
PP300	1	3	1			1	6	CU	THHN/THWN-2	1+1/4	33.1	12,925	0.02	2.67	29.4	1
T300	1	3	1			1	6	CU	THHN/THWN-2	1+1/4	33.1	12,926	0.01	2.67	29.4	1
LP300	1	3	2	1	2	1	6	CU	THHN/THWN-2	1+1/4	33.3	3,778	0.04	0.71	13.1	1
BFP	1	3	1			1	6	CU	THHN/THWN-2	1+1/4	33.1	11,833	0.03	2.43	27.7	1

GENERAL NOTES
CONDUIT SIZES ARE MINIMUM GRC - CONDUCTOR SIZES ARE MINIMUM CU THHN/THWN-2 UNLESS INDICATED OTHERWISE
SPARE CONDUITS ARE NOT INCLUDED IN THIS SCHEDULE - REFER TO PLAN KEYED NOTES
FAULT CURRENT (SCC) AND ARC FLASH CALCULATED AT INDICATED EQUIPMENT LINE TERMINALS
[1] cal/cm^2 at 18-INCHES
[2] INCHES FROM ARC AT 1.2 cal/cm^2

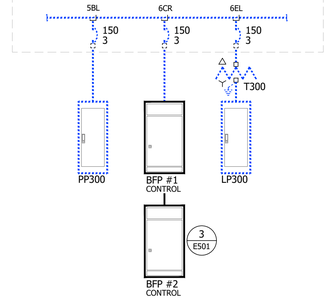
NUMBERED NOTES
1 EXISTING FEEDER
2 ISOLATED GROUND INCLUDED

LOAD SUMMARY

FEEDER NAME	LOAD AMPS				FEEDER %		SF	W/SF	
	ALLOWED [1]	CONNECTED	DEMAND	SPARE [1]	DEMAND	LOAD [1]		CONNECT	DEMAND
PP300	130	70	70	60	100	54	2,700	18.2	18.2
T300	130	22	22	108	100	17	2,700	4.7	4.7
LP300	115	51	51	49	100	44	2,700	4.7	4.7
BFP	130	42	42	88	100	33	1,570	17.2	17.2

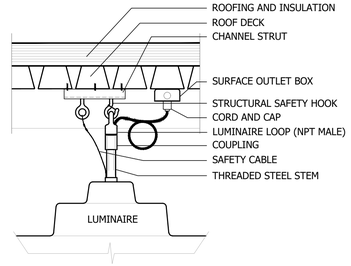
[1] ALLOWABLE LOAD AMPS, SPARE LOAD AMPS, AND FEEDER LOAD % ARE BASED ON 75°C CONDUCTOR RATING

MCCA MOTOR CONTROL CENTER
480/277-VOLT 3-PHASE 4-WIRE +GND
1200A PHASE 100% NEUTRAL 50% GND
42,000A IC - UL SE LISTED - WESTINGHOUSE SERIES 2100 (JULY 1994)
NEMA 1 ENCLOSURE - BASE MOUNT - BOTTOM LEFT FEED

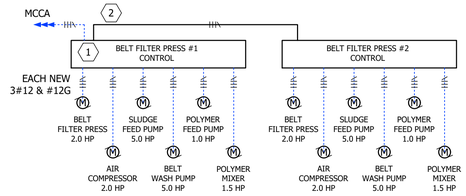


ITEMS SHOWN DASHED ARE EXISTING

1 DIAGRAM
SERVICE AND DISTRIBUTION
NOT TO SCALE



2 DETAIL
PENDANT LUMINAIRE MOUNTING
NO SCALE



3 DIAGRAM
BELT FILTER PRESS DISTRIBUTION
NOT TO SCALE

GENERAL SHEET NOTES

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REFER TO GENERAL NOTES ON DRAWING E001

GROUNDING ELECTRODE CONDUCTOR SIZE

SERVICE PHASE CONDUCTOR SIZE CU	AL	MINIMUM GEC SIZE CU	EQUIVALENT AWG	KCMIL
<=2	<=1/0	8	2	66.4
1 - 1/0	2/0 - 3/0	6	1/0	105.6
2/0 - 3/0	4/0 - 250	4	2/0	133.1
>3/0 - 350	>250 - 500	2	3/0	167.8
>350 - 600	>500 - 900	1/0	4/0	211.6
>600 - 1100	>900 - 1750	2/0		
>1100	>1750	3/0		

USE TOTAL CONDUCTOR AREA PER PHASE FOR PARALLEL CONDUCTORS
NEC TABLE 250.66

SHEET KEY NOTES

1 PROVIDE DUAL LUGS FOR FEEDER CONDUCTORS
2 EXTEND FEEDER BETWEEN CONTROL CABINET MAIN LUGS

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Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ELECTRICAL
DIAGRAMS AND DETAILS

5/10/2024 JEANNIS L. WETTERSTROM NEW MEXICO 9726 REGISTERED PROFESSIONAL ENGINEER

PROJECT NO.	R316613.01
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	5/10/2024
DPW CHK:	

SHEET:
E501

LUMINAIRE SCHEDULE

KEY	DESCRIPTION	MANUFACTURER / CATALOG NO.	LUMENS	WATTS	FINISH	VOLTS	NOTES
A	PENDANT HIGH-BAY, DIE-CAST ALUMINUM HOUSING, 4000°K, 80 CRI MIN, NARROW DISTRIBUTION, STEEL SAFETY HOOK (MALE), 3/4" IMC STEM (LENGTH VARIES), 6-FT WHITE CORD 3#16 AWG, SAFETY CABLE, NEMA L5-15 CAP	COLUMBIA / CRB-40MM-EDU LITHONIA / JHBL24000LM-GL-ND-120-GZ10-40K-80CRI-DWHXD w/ LC3P w/ JHBLSCK34	21,350	152			
B	WALL MOUNTED CUT-OFF, DIE-CAST AL HOUSING, TYPE 2 DISTRIBUTION, 4000°K, 80 CRI MIN, UL 1598 IP65, NON-DIM	BEACON / RWL2-160L-115-4K8-2-480-BLS LITHONIA / WDGE4LED-P2-40K-80CRI-R2-480-SRM-SPD10KV-DBLXD	13,900	110	BLACK	480	
E	EXIT SIGN, 1-FACE, UNIV MOUNT, COMBO EMGY LTG UNIT	DUAL-LITE / EVCUGBDI LITHONIA / LQC-1G-ELN EELP / CAC1GBB		5	BLACK		

GENERAL NOTES:
LAMPS ARE LED UNLESS NOTED OTHERWISE - LAMP CODES ARE GENERAL ELECTRIC UNLESS NOTED OTHERWISE
FINISH COLORS ARE WHITE UNLESS NOTED OTHERWISE - COLORS SHALL BE SELECTED FROM MANUFACTURER'S STANDARD DURING SUBMITTAL REVIEW UNLESS NOTED CUSTOM
LUMINAIRES SHALL BE AS SPECIFIED OR APPROVED EQUAL PRIOR TO BID/ORDER
DIMMING DRIVERS SHALL BE 0-10 Vdc 2-WIRE ELECTRONIC 100-1% DIM-TO-OFF UNLESS NOTED OTHERWISE
COLOR TEMPERATURE SHALL BE 3500°K, CRI 85 MIN, >90% PF, <20% THD, INTEGRAL BALLAST/DRIVERS 120-277V, SINGLE CIRCUIT UNLESS NOTED OTHERWISE
LUMENS LISTED ARE MINIMUM DELIVERED AND WATTS ARE MAXIMUM PER IESNA LM-79-08 BY INDEPENDENT TESTING LAB PHOTOMETRIC REPORT

NUMBERED NOTES:

RECEPTACLE SCHEDULE

KEY	NEMA DESIGN	AMP	VOLT	GROUND BLADE	LOCKING	PROVIDE CORDSET	NOTES
A	L5-20	20	125	YES	YES	YES	
B	L5-15	15	125	YES	YES	YES	
NOTES							

EQUIPMENT SCHEDULE

EQUIP KEY	DESCRIPTION	AREA	SOURCE	V	P	WIRE	MTR HP	MTR FLA	OTHER FLA	NOTE	TOTAL FLA	KVA	PF	KW	WIRE P	WIRE N	WIRE G	CONDUIT SIZE	MAX PROTECTION CB	MAX PROTECTION FUSE	MAX PROTECTION MCP
AC-1,-2	AIR COMPRESSOR	BFP	BFPCP	480	3	3	2.00				3.4	2.8	0.75	2.1	12	--	12	3/4	15	5	5
BFP-1,-2	BELT FILTER PRESS	BFP	BFPCP	480	3	3	2.00				3.4	2.8	0.75	2.1	12	--	12	3/4	15	5	5
EF-21	EXH FAN	BFP	PP300	480	3	3	1.00				1.8	1.5	0.70	1.0	12	--	12	3/4	15	2.5	2
PDP-1,-2	POLYMER DISP PUMP	BFP	BFPCP	480	3	3	1.00				1.8	1.5	0.70	1.0	12	--	12	3/4	15	2.5	2
PM-1,-2	POLYMER MIXER	BFP	BFPCP	480	3	3	1.50				2.6	2.2	0.70	1.5	12	--	12	3/4	15	4	3
PWP-1,-2	PLANT WATER PUMP	BFP	PP300	480	3	3	7.50				11.0	9.1	0.80	7.3	12	--	12	3/4	20	15	10
SC-1	SLUDGE CONVEYOR	BFP	PP300	480	3	3	5.00				7.6	6.3	0.80	5.1	12	--	12	3/4	15	12	10
SFP-1,-2	SLUDGE FEED PUMP	BFP	BFPCP	480	3	3	5.00				7.6	6.3	0.80	5.1	12	--	12	3/4	15	12	10
WP-1,-2	WASH PUMP	BFP	BFPCP	480	3	3	5.00				7.6	6.3	0.80	5.1	12	--	12	3/4	15	12	10

GENERAL NOTES
CONDUIT SIZES ARE MINIMUM FOR EMT - CONDUCTOR SIZES ARE MINIMUM FOR CU
MAX PROTECTION IS PER NEC - SEE PANEL BOARD SCHEDULES, DRAWINGS, AND PRODUCT SUBMITTALS FOR PROTECTION TO BE PROVIDED

NUMBERED NOTES
1 SEE DRAWINGS FOR WIRE, CONDUIT, AND PROTECTION SIZES
2 NON-CONTINUOUS LOAD
3 ALUMINUM PHASE AND NEUTRAL CONDUCTORS
4 HACR LOAD

PANEL BOARD SCHEDULE

VOLTAGE (L-L): 480 — **EXISTING** — PANEL BOARD NAME: **PP300**
PHASE: 3 — BUS RATING, Amps: 250
WIRE: 3 — MAIN BREAKER RATING, Amps: MLO
MOUNTING: SURFACE — FEEDER PROTECTION, Amps: 150
MANUFACTURER: WESTINGHOUSE PRL3A — GROUND BUS: ISOLATED FROM NEUTRAL
OPTIONS: — MAIN BOND JUMPER: NO
TOP: — SHORT CCT RATING (SCCR), Amps: 22,000
BOTTOM: — DEFAULT POWER FACTOR: 90%

LOAD TYPE	LOAD DESCRIPTION	kW	NOTE	CB SIZE	CCT #	Φ	CCT #	CB SIZE	NOTE	kW	LOAD DESCRIPTION	LOAD TYPE
MEC		0.3		20 1	1	A	2	20 1		1.7		SHP
MEC	EXH FAN EF-21 BELT FILTER PRESS	0.3		----|	3	B	4	----|		1.7	SLUDGE CONVEYOR PANEL	SHP
MEC		0.3		3P J	5	C	6	3P J			1.7		SHP
				20 1	7	A	8	30 1			2.4		SHP
				----|	9	B	10	----|		2.4	PLANT WATER PANEL	SHP
				3P J	11	C	12	3P J			2.4		SHP
MEC		6.4		20 1	13	A	14	20 1			0.4		MEC
MEC	MOTOR CONTROL ACU-30	6.4		----|	15	B	16	----|		0.4	BLOWER EXHAUST FAN EF-20	MEC
MEC		6.4		3P J	17	C	18	3P J			0.4		MEC
				20 1	19	A	20	20 1			0.4		MEC
				----|	21	B	22	----|		0.4	MOTOR CONTROL CU-30	MEC
				3P J	23	C	24	3P J			0.4		MEC
SHP		1.1		20 1	25	A	26	20 1			0.3	BFP EXTERIOR LIGHTS	LTG
SHP	BLOWER ROLL-UP DOORS	1.1		----|	27	B	28	2P J		0.3		LTG
SHP		1.1		3P J	29	C	30	20 1			0.8	SBR EXTERIOR LIGHTS	LTG
MEC		1.8		15 1	31	A	32	2P J			0.8		LTG
MEC	MOTOR CONTROL APU-25	1.8		----|	33	B	34	20 1		1.7	SBR FLOOD LIGHTS	LTG
MEC		1.8		3P J	35	C	36	2P J			1.7		LTG
					37	A	38	20 1					
					39	B	40	----|				
					41	C	42	3P J					

LOAD SUMMARY	kW
Phase A:	16
B:	17
C:	17
THIS SECTION:	49
Phase A:	
B:	
C:	
SUB-FEED & FEED-THROUGH:	
Phase A:	16
B:	17
C:	17
BUS TOTAL:	49
Demand Imbalance % A:	-0.1%
B:	0.5%
C:	0.8%
Demand Imbalance %	0.8%

Notes
A - AFI arcing fault interrupter
C - Through lighting contactor
D - Dual (tandem) circuit breaker
G - GFI ground fault interrupter
K - Kirk key interlock
L - Handle LOCK-OFF/LOCK-ON
N - New CB in existing space
R - Replace existing CB with new CB
S - Switched neutral
T - 120V shunt trip
W - Switching duty rated SWD
X - Relocated existing CB
Z - 100% rated

	Connected kW	Demand kW	Demand %	Demand Amps
Lighting	5	5	100	
Receptacles				
Other	44	44	100	
Total	49	49	100	70

Options
A - NEMA 12/3R enclosure
B - NEMA 12 enclosure
C - Door-in-door front
D - Hinged front
E - Top and bottom box extensions
F - 400 Hz rating
G - Isolated ground bus
H - 100% rating
J - NEMA 4X enclosure
K - Internal SPD
L - User metering (mains)
M - User metering (branch circuits)
N - Stainless Steel enclosure & trim

PANEL BOARD SCHEDULE

VOLTAGE (L-L): 208 — **EXISTING** — PANEL BOARD NAME: **LP300**
PHASE: 3 — BUS RATING, Amps: **100**
WIRE: 4 — MAIN BREAKER RATING, Amps: **150**
MOUNTING: SURFACE — FEEDER PROTECTION, Amps:
MANUFACTURER: WESTINGHOUSE PRL1 — GROUND BUS: ISOLATED FROM NEUTRAL
OPTIONS: — MAIN BOND JUMPER: NO
TOP: — SHORT CCT RATING (SCCR), Amps: 10,000
BOTTOM: — DEFAULT POWER FACTOR: 90%

LOAD TYPE	LOAD DESCRIPTION	kW	NOTE	CB SIZE	CCT #	Φ	CCT #	CB SIZE	NOTE	kW	LOAD DESCRIPTION	LOAD TYPE
SHP	SBR BLOWER 1 PANEL	0.5		20	1	A	2	20		0.5	SBR BLOWER 2 PANEL	SHP
SHP	SBR BLOWER 3 PANEL	0.5		20	3	B	4	20		0.5	DIGESTER BLOWER PANEL	SHP
				20	5	C	6	20				
				20	7	A	8	20				
RCP	MOTOR CONTROL	0.6		20	9	B	10	20		0.5	MOTOR CONTROL	LTG
RCP	BLOWER ROOM	0.3		20	11	C	12	20		0.5	BFP UNIT HEATERS	MEC
RCP	BLOWER ROOM	0.3		20	13	A	14	20		0.9	BFP	LTG
LTG	BFP	0.5		20	15	B	16	20		0.3	BFP	RCP
LTG	BOLLARDS SBR WEST	0.3		20	17	C	18	20		1.5	BLOWER ROOM	LTG
RCP	BFP	0.6		20	19	A	20	20		0.6	SBR/EFFLUENT LS	RCP
				20	21	B	22	20		0.6	SBR	RCP
LTG	EMERGENCY/EXIT			20	23	C	24	20				
RCP	BFP ROLL-UP DOOR NORTH	1.5		20	25	A	26	20				
RCP	BFP ROLL-UP DOOR SOUTH	1.5		20	27	B	28	20				
				20	29	C	30	20				
					31	A	32	150 1				
					33	B	34	----|			
					35	C	36	3P J			MAIN	

LOAD SUMMARY	kW
Phase A:	5
B:	5
C:	3
THIS SECTION:	13
Phase A:	
B:	
C:	
SUB-FEED & FEED-THROUGH:	
Phase A:	5
B:	5
C:	3
BUS TOTAL:	13
Demand Imbalance % A:	3.2%
B:	3.3%
C:	-3.9%
Demand Imbalance %	3.9%

Notes
A - AFI arcing fault interrupter
C - Through lighting contactor
D - Dual (tandem) circuit breaker
G - GFI ground fault interrupter
K - Kirk key interlock
L - Handle LOCK-OFF/LOCK-ON
N - New CB in existing space
R - Replace existing CB with new CB
S - Switched neutral
T - 120V shunt trip
W - Switching duty rated SWD
X - Relocated existing CB
Z - 100% rated

	Connected kW	Demand kW	Demand %	Demand Amps
Lighting	4	4	100	
Receptacles	7	7	100	
Other	3	3	100	
Total	13	13	100	51

Options
A - NEMA 12/3R enclosure
B - NEMA 12 enclosure
C - Door-in-door front
D - Hinged front
E - Top and bottom box extensions
F - 400 Hz rating
G - Isolated ground bus
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Designed For: CITY OF SOCORRO

CITY OF SOCORRO
WASTEWATER TREATMENT PLANT
BELT FILTER PRESS REPLACEMENT

ELECTRICAL SCHEDULES

5/10/2024 JEANNIS L. WETTERSTROM NEW MEXICO 9726 REGISTERED PROFESSIONAL ENGINEER

PROJECT NO.	R316613.01
DESIGNED BY:	DLW
DRAWN BY:	DLW
CHECKED BY:	DLW
DATE:	5/10/2024
DPW CHK:	

SHEET: E601