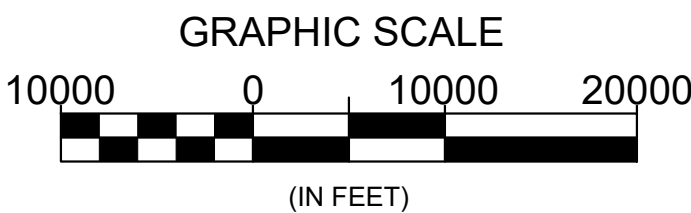
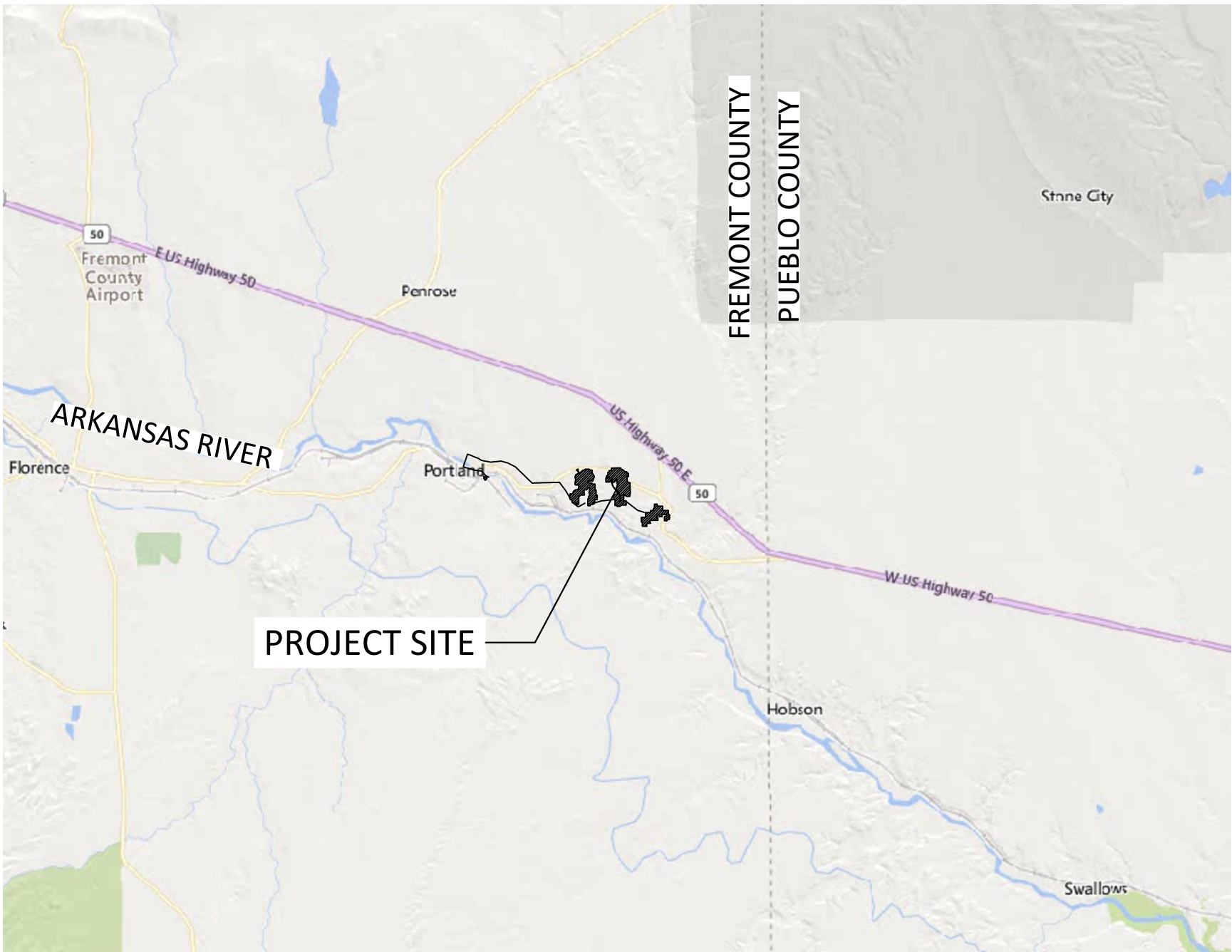


SPECIAL REVIEW USE PERMIT
FOR
AMRIZE CEMENT INC. PORTLAND PLANT SOLAR AND STORAGE PROJECT

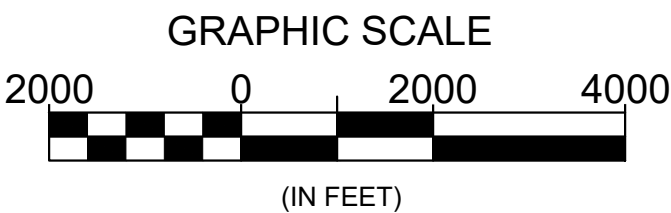
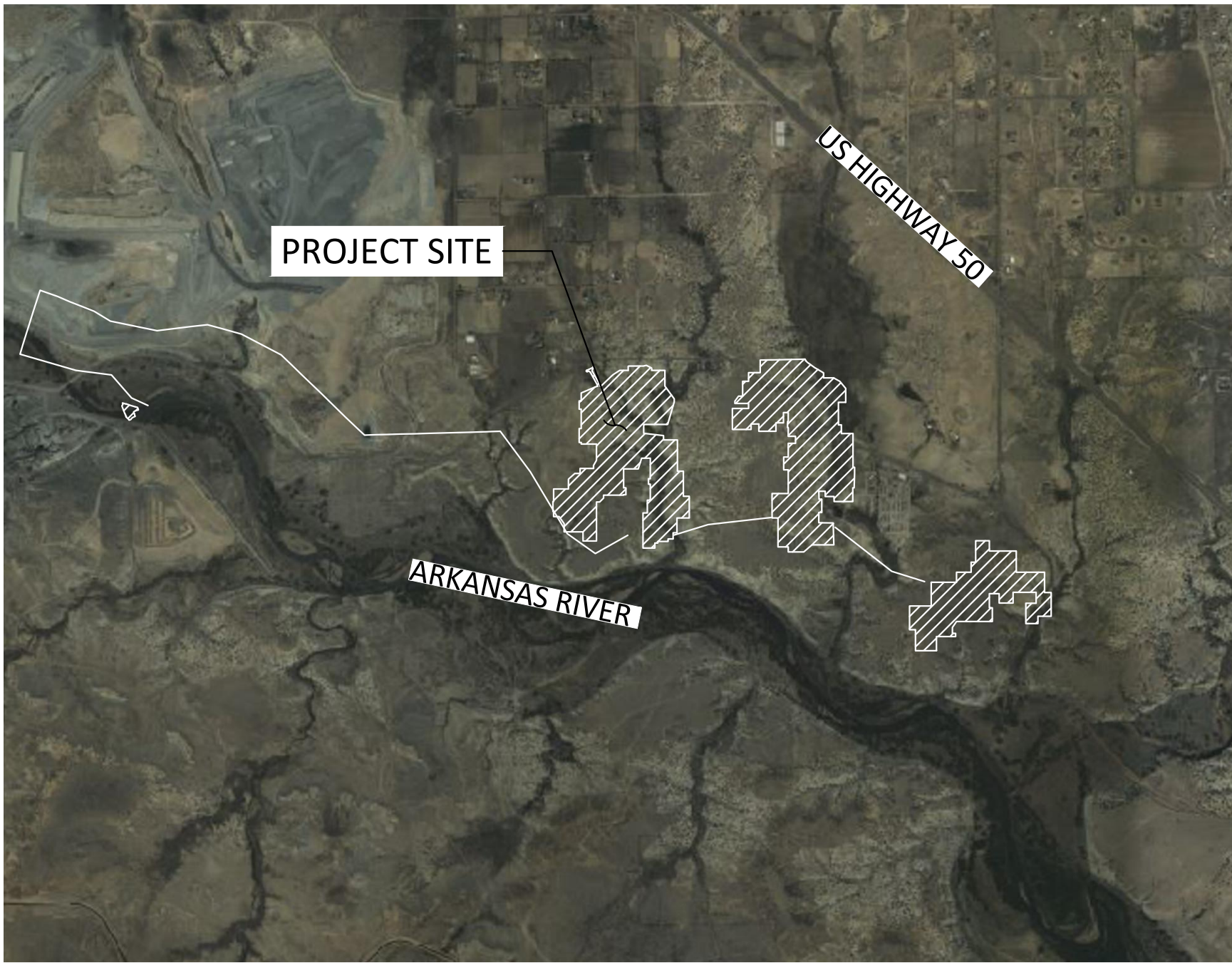
33.35-MW SOLAR FACILITY & 42-MWH BATTERY ENERGY STORAGE SYSTEM (BESS)

FREMONT COUNTY, CO

VICINITY MAP



SITE MAP



Sheet List Table	
Sheet Number	Sheet Title
C000	COVER SHEET
C001	SITE DATA
C002	OVERALL SITE PLAN
C100	SHEET INDEX
C101–C105	SITE PLAN
C200	TYPICAL PV SECTIONS AND DETAILS
C201	TYPICAL SUBSTATION ELEVATION
C202	BATTERY CONTAINER TYPICAL ELEVATION
C203	INVERTER TYPICAL ELEVATION
C300	CONSTRUCTION DETAILS
C400	DRAINAGE DETAILS
C500–C501	FENCING DETAILS

CLIENT/OWNER:

SOLAR STAR
WHOLESOME
PORTLAND,
LLC.

NOT FOR
CONSTRUCTION

AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT

FREMONT COUNTY, CO, USA

COVER SHEET

REVISIONS

REV	DESIGN #	DESCRIPTION	DATE	DB	CB

OPPORTUNITY

PROJECT 31405989.000

DATE DRAWN 9/15/25

DRAWN BY AS



IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE

SHEET

C000



PROJECT OWNER: SOLAR STAR WHOLESOME PORTLAND, LLC.

PLAN PREPARER: WSP USA INC.
300 SOUTH 4TH STREET, SUITE 1200
LAS VEGAS, NV 89101
725-724-4400

SURVEYOR: TOPO, ASCENT GEOMATICS SOLUTIONS DATED 03/21/2024
ALTA, VARA 3D, INC. DRAFT DATED 03/26/2024

LEGAL DESCRIPTION:

REFER TO THE DRAFT ALTA SURVEY PROVIDED BY VARA 3D, INC. DATED 03/26/2024 FOR THE LEGAL DESCRIPTION.

BASIS OF BEARINGS:

THE COORDINATES ARE REFERENCED TO COLORADO CENTRAL STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM 1983 (NAD83). WAS USED AS THE BASIS OF COORDINATES AS DERIVED FROM DPOS OBSERVATIONS IN APRIL 2023.

BENCH MARK:

ELEVATIONS ARE REFERENCED TO NAD88 AS DETERMINED LOCALLY BY A POST PROCESSED DATA SESSION FILE NUMBER 200_140645.JPS. WITH A NAD88 (GEOID 18) ELEVATION OF 5036.46 FEET. BENCH MARK POINT IS A NAIL AND WASHER SET.

SITE DATA:

LOT AREA:	2903 AC
PROJECT AREA:	166.10 AC
EXISTING ZONING:	INDUSTRIAL & RESIDENTIAL 3
PROPOSED ZONING:	INDUSTRIAL & RESIDENTIAL 3 (SPECIAL USE REVIEW)
EXISTING ZONING OF ADJOINING PROPERTIES:	

NORTHERLY	INDUSTRIAL & RESIDENTIAL 2
EASTERLY	RESIDENTIAL 2
WESTERLY	INDUSTRIAL & RESIDENTIAL 3
SOUTHERLY	RESIDENTIAL 3

INDUSTRIAL ZONING DISTRICT REGULATIONS

MINIMUM LOT SIZE:	1 AC	NO PROPOSED DEVIATION TO REGULATION
MAXIMUM LOT COVERAGE:	65%	NO PROPOSED DEVIATION TO REGULATION
MAXIMUM ALLOWED BUILDING HEIGHT:	50 FT	NO PROPOSED DEVIATION TO REGULATION
MINIMUM LOT WIDTH:	100 FT	NO PROPOSED DEVIATION TO REGULATION
MINIMUM SETBACK REQUIREMENTS:		NO PROPOSED DEVIATION TO REGULATION

FRONT	40 FT
REAR	10 FT
SIDE	20 FT

RESIDENTIAL 3 ZONING DISTRICT REGULATIONS

MINIMUM LOT SIZE:	18 AC	NO PROPOSED DEVIATION TO REGULATION
MAXIMUM LOT COVERAGE:	7%	NO PROPOSED DEVIATION TO REGULATION
MAXIMUM ALLOWED BUILDING HEIGHT:	45 FT	NO PROPOSED DEVIATION TO REGULATION
MINIMUM LOT WIDTH:	500 FT	NO PROPOSED DEVIATION TO REGULATION
MINIMUM SETBACK REQUIREMENTS:		NO PROPOSED DEVIATION TO REGULATION

FRONT	75 FT
REAR	50 FT
SIDE	50 FT

PROPOSED LOT COVERAGE: <0.1%

TOTAL BATTERY STORAGE UNITS:	14 EA. (7.9' X 21.1')
TOTAL INVERTER ENCLOSURES:	7 EA. (8' X 19.9') AT BESS, 11 EA. (8' X 19.9') AT SOLAR FIELD

SOIL TYPES:

SOIL CLASSIFICATION											
MAP SYMBOL	SOIL NAME AND SLOPE	DEPTH TO BEDROCK (IN)	DEPTH TO WATER TABLE (IN)	LIMITATIONS FOR ROAD CONSTRUCTION	SUITABILITY FOR ROAD FILL	CORROSIVE TO UNCOATED STEEL	CORROSIVE TO CONCRETE	EROSION HAZARD	HYDROGIC SOIL GROUP	HYDRIC/ HYDRIC INCLUSIONS	POTENTIAL SOURCE OF TOPSOIL
SOLAR FACILITY											
3	Aquic Ustifluvents	>79	30	MODERATE	FAIR	HIGH	HIGH	SLIGHT	B	0	POOR
6	Bloom silty clay loam, 0 to 2 percent slopes, occasionally flooded	>79	4	SEVERE	POOR	MODERATE	HIGH	SLIGHT	C/D	93	POOR
52	Kimera-Cascajo complex, 1 to 12 percent slopes	>79	>79	MODERATE	POOR	MODERATE	MODERATE	SLIGHT	C	0	FAIR
65	Manvel silt loam, 0 to 2 percent slopes	>79	>79	MODERATE	POOR	MODERATE	MODERATE	SLIGHT	B	0	GOOD
66	Manvel silt loam, 2 to 6 percent slopes	>79	>79	MODERATE	POOR	MODERATE	MODERATE	SLIGHT	B	0	GOOD
67	Manvel silty clay loam, saline	>79	>79	MODERATE	POOR	HIGH	HIGH	SLIGHT	C	0	POOR
83	Penrose-Minnequa complex, 1 to 15 percent slopes	15	>79	SEVERE	POOR	LOW	LOW	SLIGHT	D	0	POOR
84	Penrose-Midway-Rock outcrop complex, 10 to 45 percent slopes	15	>79	MODERATE	POOR	MODERATE	MODERATE	MODERATE	D	0	POOR
BATTERY ENERGY STORAGE SYSTEM (BESS) AREA											
66	Manvel silt loam, 2 to 6 percent slopes	>79	>79	MODERATE	POOR	MODERATE	MODERATE	SLIGHT	B	0	GOOD

CLIENT/OWNER:

SOLAR STAR WHOLESOME PORTLAND, LLC.

NOT FOR CONSTRUCTION

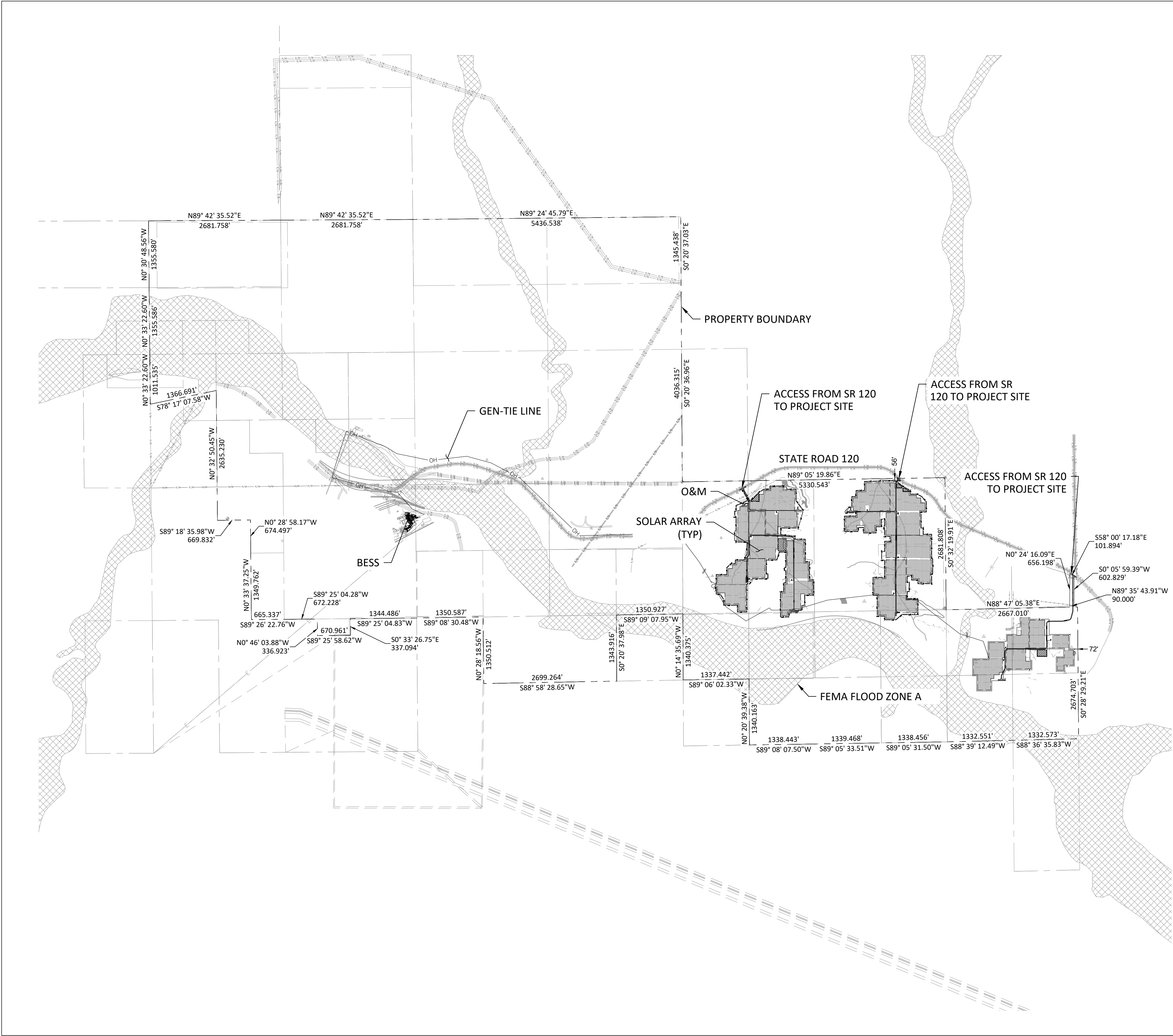
AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT

FREMONT COUNTY, CO, USA

SITE DATA

REVISIONS	REV	DESIGN #	DESCRIPTION	DATE	DB	CB
OPPORTUNITY						
PROJECT			31405989.000			
DATE DRAWN			9/15/25			
DRAWN BY			AS			
<						





- LEGEND:**
- PROPERTY BOUNDARY
 - EXISTING EASEMENT LINE
 - EXISTING SETBACK
 - EXISTING EXCEPTION BOUNDARY
 - EXISTING RIGHT-OF-WAY LINE
 - EXISTING MAJOR CONTOUR
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 - EXISTING NATURAL GAS LINE
 - EXISTING ROAD
 - EXISTING DITCH
 - EXISTING FIBER OPTIC
 - EXISTING OVERHEAD ELECTRICAL
 - EXISTING POWER POLE
 - EXISTING SURVEY CONTROL POINT
 - EXISTING FENCE
 - LIMITS OF DISTURBANCE
 - GAME FENCE
 - FLOW THROUGH FENCE
 - OVERHEAD ELECTRICAL
 - UNDEGROUND ELECTRICAL
 - LAYDOWN AREA
 - INVERTER PAD
 - 12" GRAVEL ACCESS ROAD
 - SOLAR ARRAY
 - MODULE BLOCK LIMITS
 - LOW WATER CROSSING

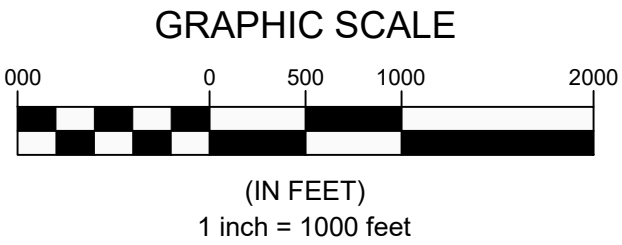
NOTES:

1. ALL EXISTING AND PROPOSED STRUCTURES ARE LOCATED MINIMUM 100 FEET FROM THE PROPERTY LINES.

FLOOD ZONE:
HOLCIM SOLAR IS LOCATED IN FLOOD ZONE X DEFINED AS AN AREA OUTSIDE OF 0.2% ANNUAL CHANCE FLOOD. THE ZONE X FLOOD ZONE IS SHOWN ON FIRM (FLOOD INSURANCE RATE MAP) FOR FREMONT COUNTY, COLORADO, MAP NUMBER 0800670700E, PANEL 700 OF 925, DATED SEPTEMBER 19, 2007, AND MAP NUMBER 0800670675E, PANEL 675 OF 925, DATED SEPTEMBER 19, 2007.

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CLIENT/OWNER:

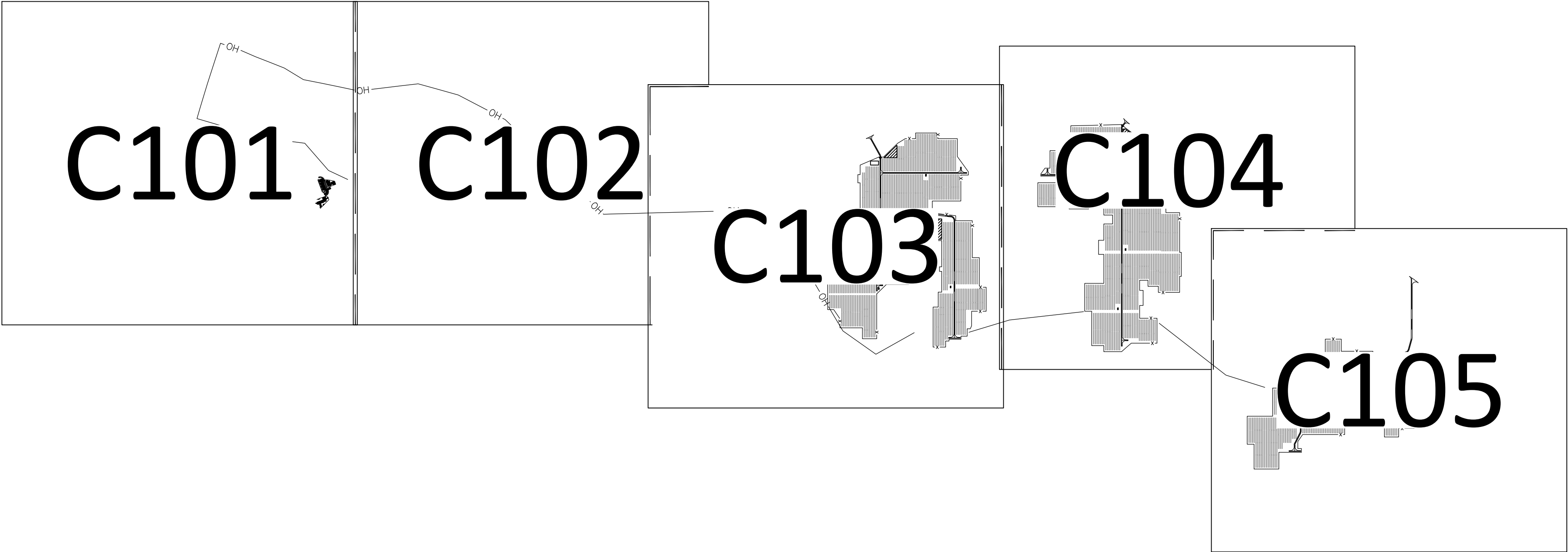
SOLAR STAR
WHOLESOME
PORTLAND,
LLC.

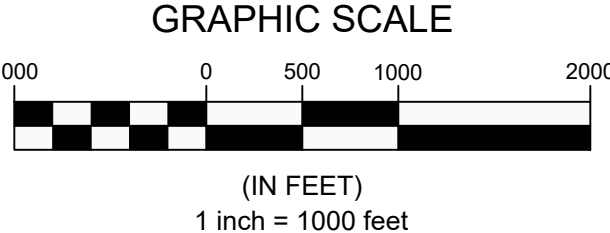
NOT FOR
CONSTRUCTION

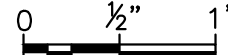
AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT
FREMONT COUNTY, CO, USA
OVERALL SITE PLAN

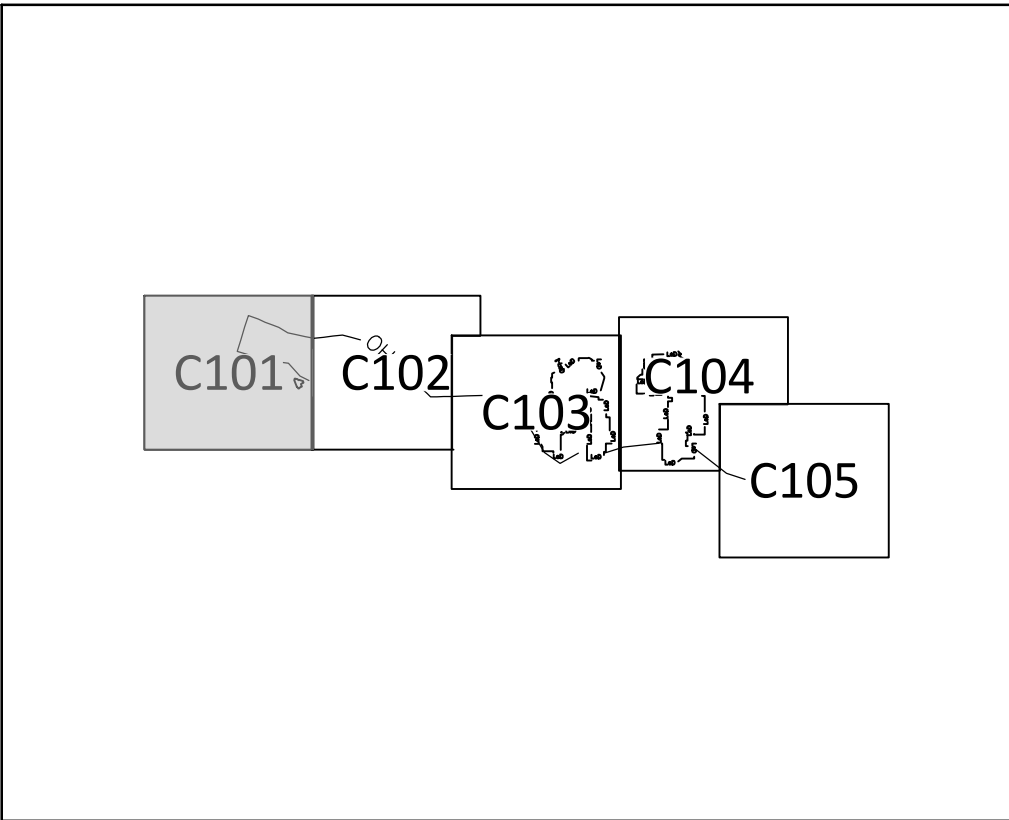
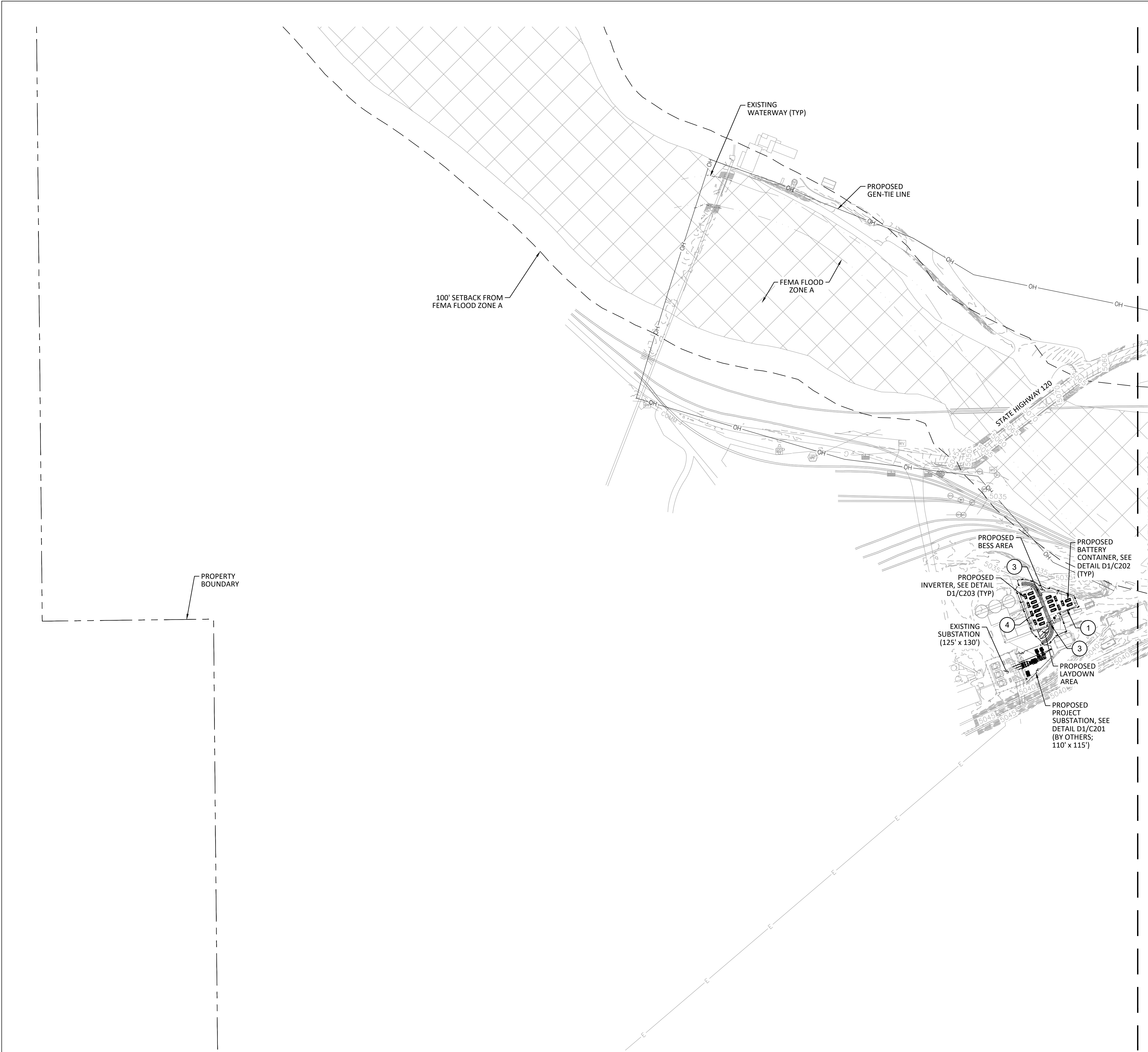
REV	DESIGN #	DESCRIPTION	DATE	DB	CB

OPPORTUNITY	
PROJECT	31405989.000
DATE DRAWN	9/15/25
DRAWN BY	AS
IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE	
SHEET	
C002	





CLIENT/OWNER:						SOLAR STAR WHOLESOME PORTLAND, LLC.					
NOT FOR CONSTRUCTION											
AMRIZE CEMENT INC. PORTLAND PLANT SOLAR AND STORAGE PROJECT FREMONT COUNTY, CO, USA						SHEET INDEX					
REV	DESIGN #	DESCRIPTION	DATE	DB	CB						
OPPORTUNITY											
PROJECT				31405989.000							
DATE DRAWN				9/15/25							
DRAWN BY				AS							
											
				IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE							
SHEET				C100							



KEY MAP
N.T.S.

- LEGEND:**
- PROPERTY BOUNDARY
 - EXISTING EASEMENT LINE
 - EXISTING SETBACK
 - EXISTING EXCEPTION BOUNDARY
 - EXISTING RIGHT-OF-WAY LINE
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
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 - EXISTING SURVEY CONTROL POINT
 - EXISTING FENCE
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 - GAME FENCE
 - FLOW THROUGH FENCE
 - OVERHEAD ELECTRICAL
 - UNDERGROUND ELECTRICAL
 - LAYDOWN AREA
 - INVERTER PAD
 - 12' GRAVEL ACCESS ROAD
 - SOLAR ARRAY
 - MODULE BLOCK LIMITS
 - LOW WATER CROSSING

CONSTRUCTION ITEMS:

- 1 8' GAME FENCE (SEE DETAIL D1/C500)
- 2 8' FLOW THROUGH FENCE (SEE DETAIL D1/C501)
- 3 PERIMETER VEHICULAR GATE (SEE DETAIL D3/C500)
- 4 12' INTERIOR ACCESS ROAD (SEE DETAIL D2/C300)
- 5 LOW FLOW WATER CROSSING (SEE DETAIL D1/C400)

FLOOD ZONE:

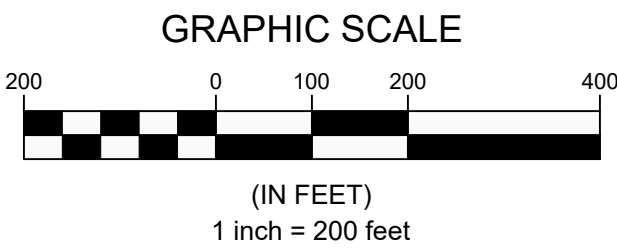
HOLCIM SOLAR IS LOCATED IN FLOOD ZONE X DEFINED AS AN AREA OUTSIDE OF 0.2% ANNUAL CHANCE FLOOD. THE ZONE X FLOOD ZONE IS SHOWN ON FIRM (FLOOD INSURANCE RATE MAP) FOR FREMONT COUNTY, COLORADO, MAP NUMBER 0800670700E, PANEL 700 OF 925, DATED SEPTEMBER 19, 2007, AND MAP NUMBER 0800670675E, PANEL 675 OF 925, DATED SEPTEMBER 19, 2007.

BASIS OF BEARING:

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CLIENT/OWNER:

SOLAR STAR
WHOLESOME
PORTLAND,
LLC.

NOT FOR
CONSTRUCTION

AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT
FREMONT COUNTY, CO, USA

SITE PLAN

REV	DESIGN #	DESCRIPTION	DATE	DB	CB

OPPORTUNITY

PROJECT

DATE DRAWN

DRAWN BY

31405989.000

9/15/25

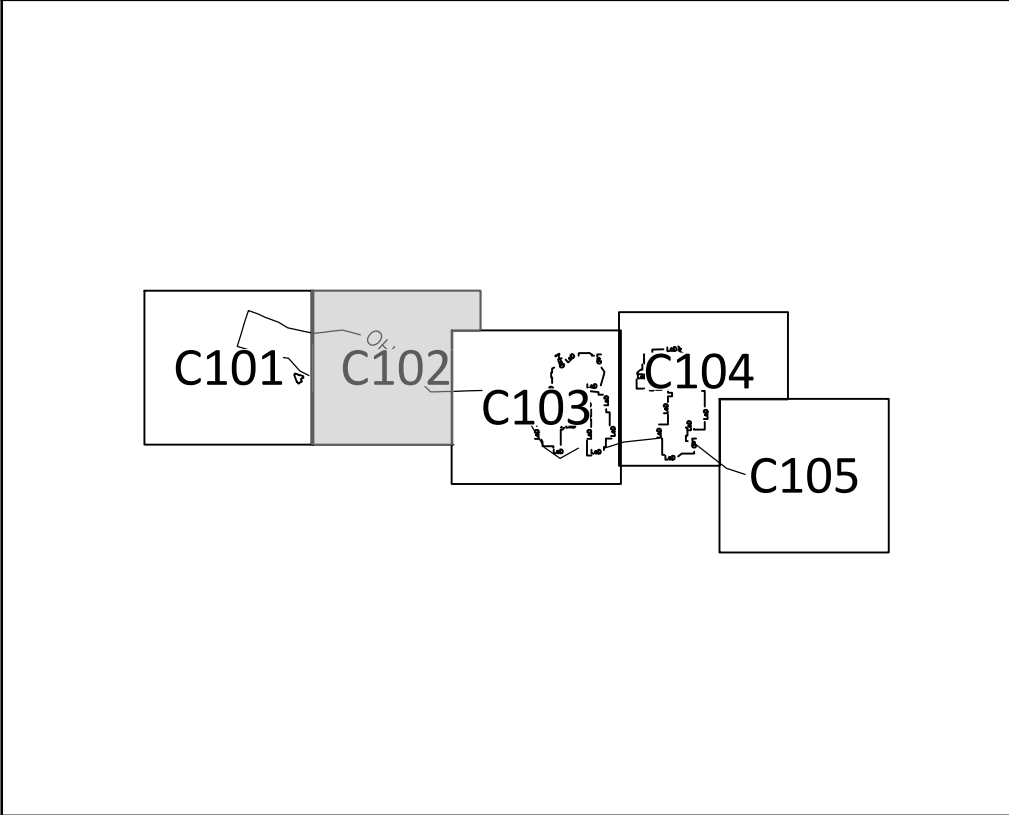
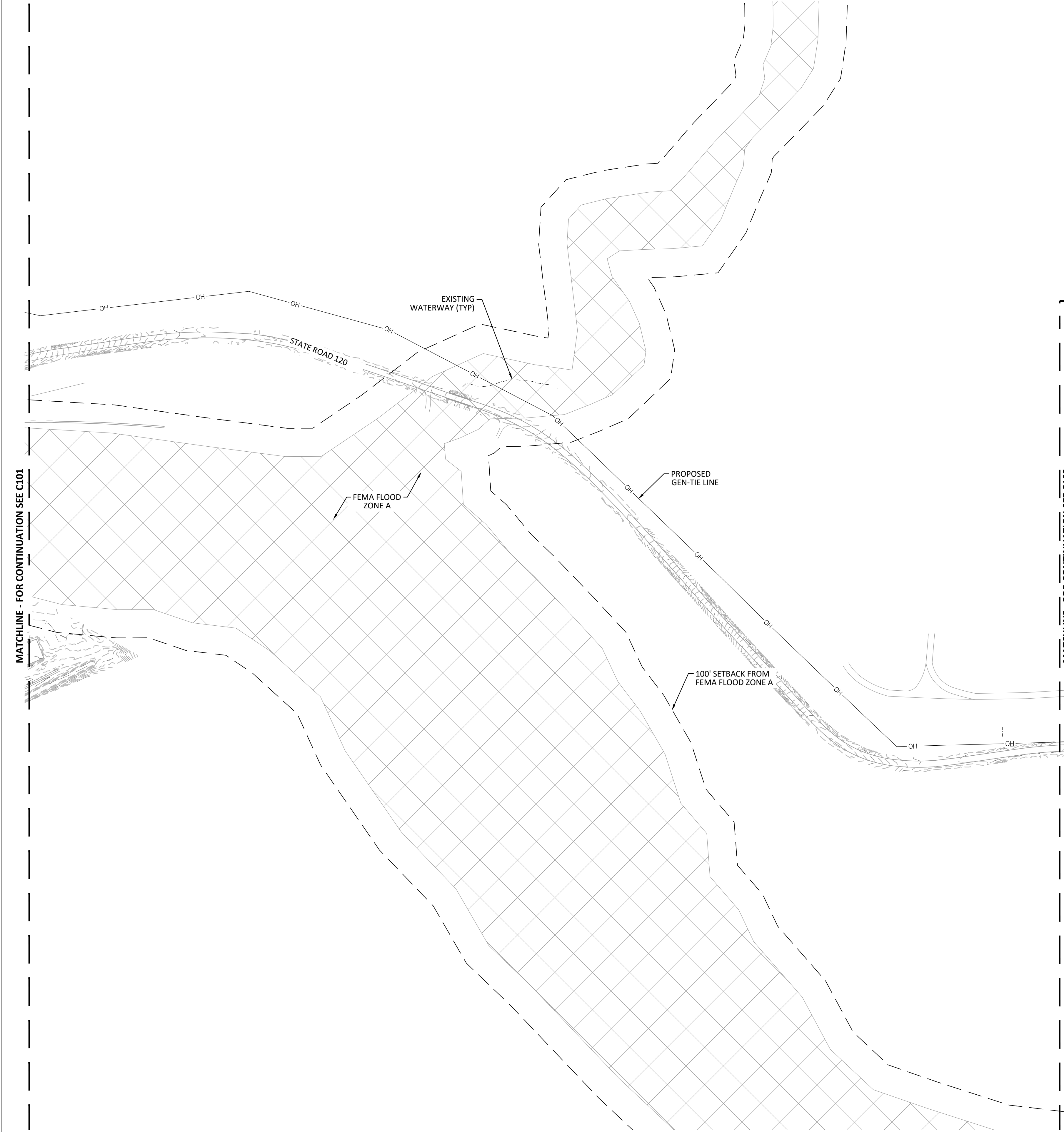
AS

0 1/2" 1"

IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE

SHEET

C101



KEY MAP
N.T.S.

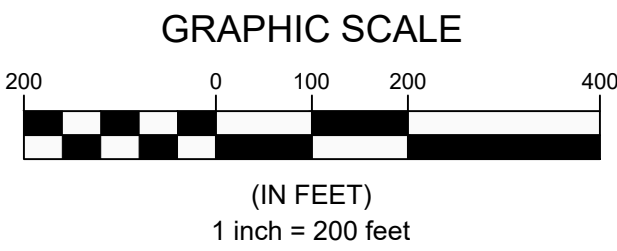
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- CONSTRUCTION ITEMS:**
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 - 8' FLOW THROUGH FENCE (SEE DETAIL D1/C501)
 - PERIMETER VEHICULAR GATE (SEE DETAIL D3/C300)
 - 12' INTERIOR ACCESS ROAD (SEE DETAIL D2/C300)
 - LOW FLOW WATER CROSSING (SEE DETAIL D1/C400)

FLOOD ZONE:
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AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT
FREMONT COUNTY, CO, USA
SITE PLAN

REV	DESIGN #	REVISIONS				
		DESCRIPTION	DATE	DB	CB	

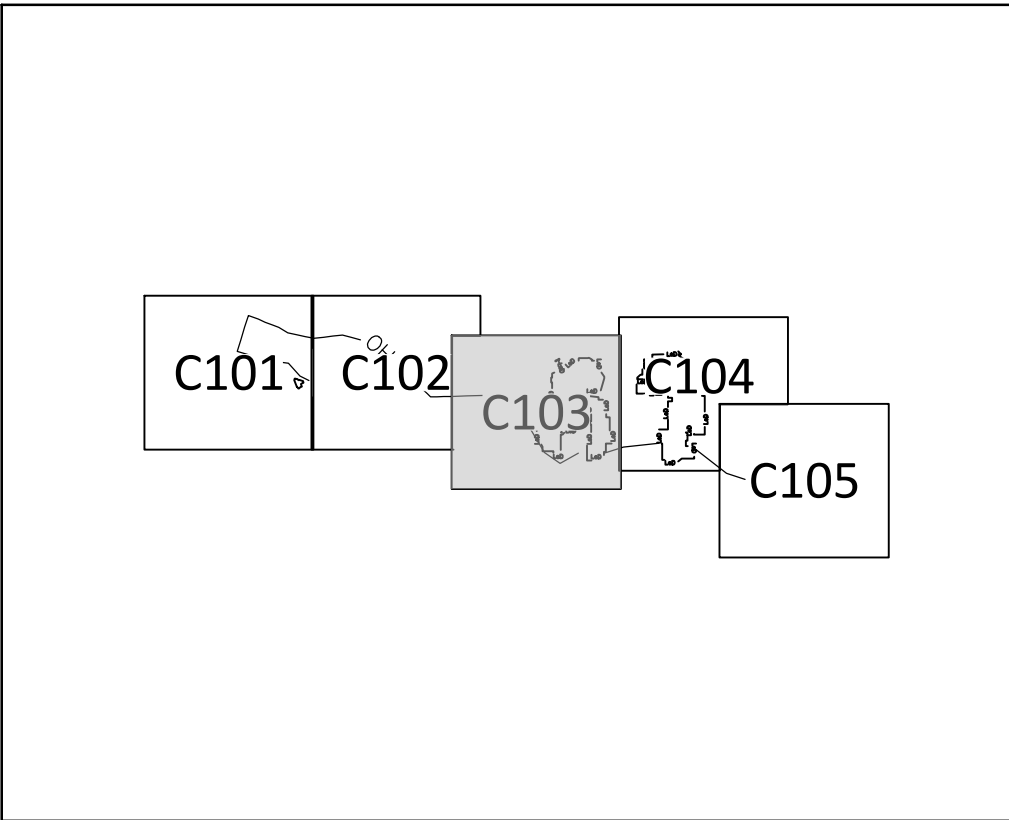
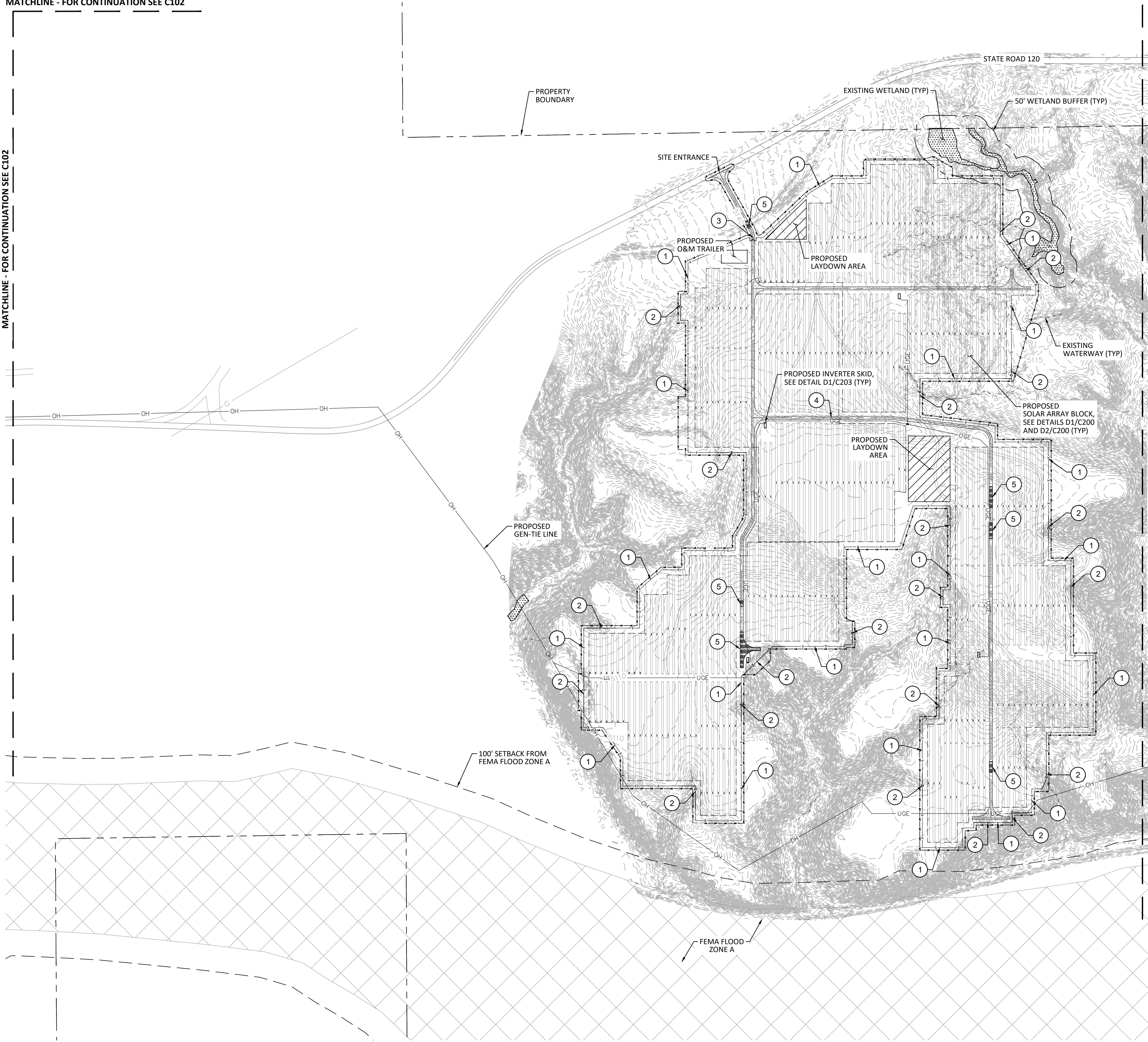
OPPORTUNITY	
PROJECT	31405989.000
DATE DRAWN	9/15/25
DRAWN BY	AS

0 1/2" 1"
IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE
SHEET

C102

MATCHLINE - FOR CONTINUATION SEE C102

MATCHLINE - FOR CONTINUATION SEE C102



KEY MAP
N.T.S.

- LEGEND:**
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 - 12' GRAVEL ACCESS ROAD
 - SOLAR ARRAY
 - MODULE BLOCK LIMITS
 - LOW WATER CROSSING

CONSTRUCTION ITEMS:

- 1 8' GAME FENCE (SEE DETAIL D1/C500)
- 2 8' FLOW THROUGH FENCE (SEE DETAIL D1/C501)
- 3 PERIMETER VEHICULAR GATE (SEE DETAIL D3/C500)
- 4 12' INTERIOR ACCESS ROAD (SEE DETAIL D2/C300)
- 5 LOW FLOW WATER CROSSING (SEE DETAIL D1/C400)

FLOOD ZONE:

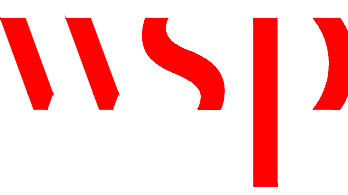
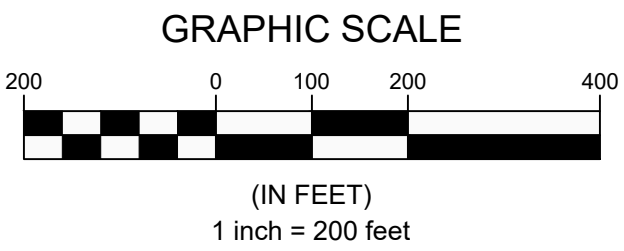
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AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT
FREMONT COUNTY, CO, USA

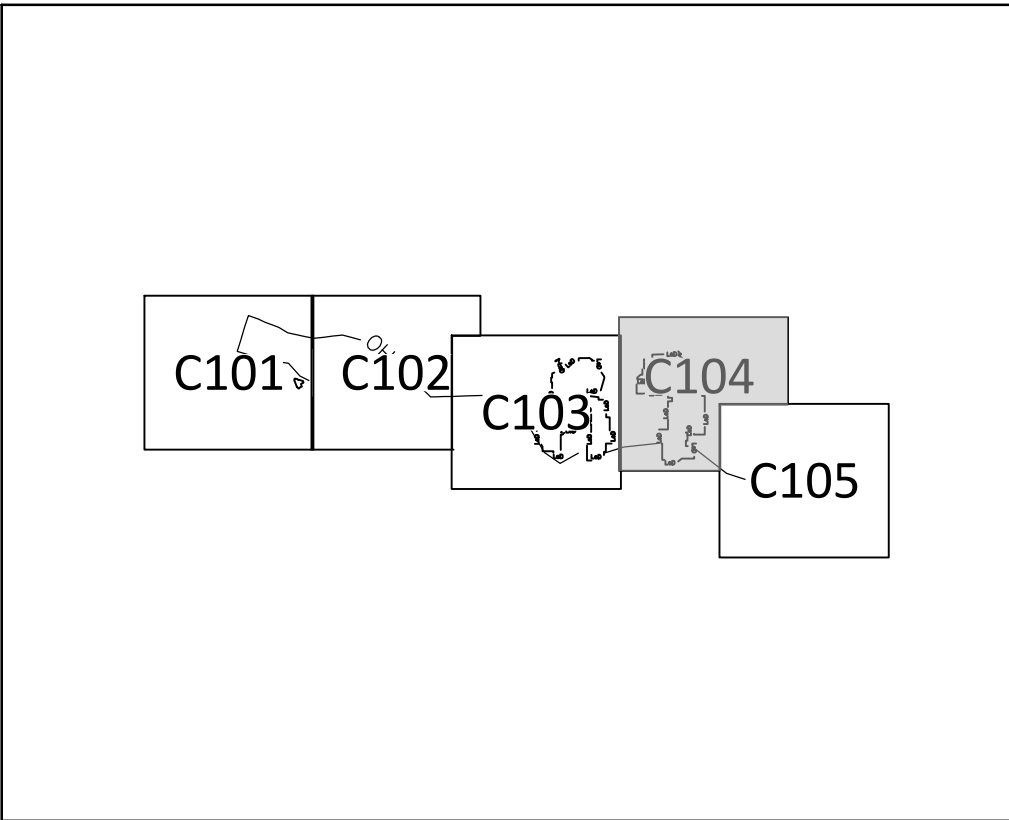
SITE PLAN

REV	DESIGN #	REVISIONS	
		DESCRIPTION	DATE

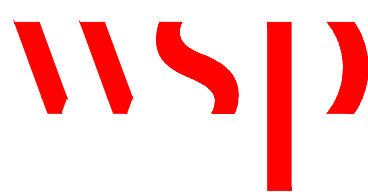
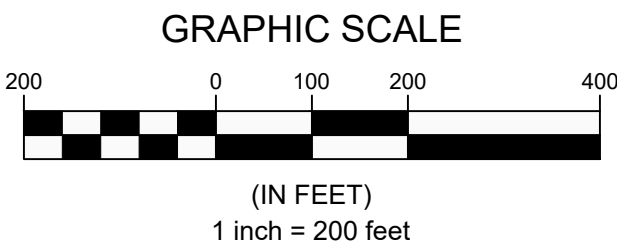
OPPORTUNITY	
PROJECT	31405989.000
DATE DRAWN	9/15/25
DRAWN BY	AS

IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE
SHEET

C103



- LEGEND:**
- PROPERTY BOUNDARY
 - EXISTING EASEMENT LINE
 - EXISTING SETBACK
 - EXISTING EXCEPTION BOUNDARY
 - EXISTING RIGHT-OF-WAY LINE
 - EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
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 - 12' GRAVEL ACCESS ROAD
 - SOLAR ARRAY
 - MODULE BLOCK LIMITS
 - LOW WATER CROSSING
- CONSTRUCTION ITEMS:**
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 - 2 8' FLOW THROUGH FENCE (SEE DETAIL D1/C501)
 - 3 PERIMETER VEHICULAR GATE (SEE DETAIL D3/C500)
 - 4 12' INTERIOR ACCESS ROAD (SEE DETAIL D2/C300)
 - 5 LOW FLOW WATER CROSSING (SEE DETAIL D1/C400)
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NOT FOR
CONSTRUCTION

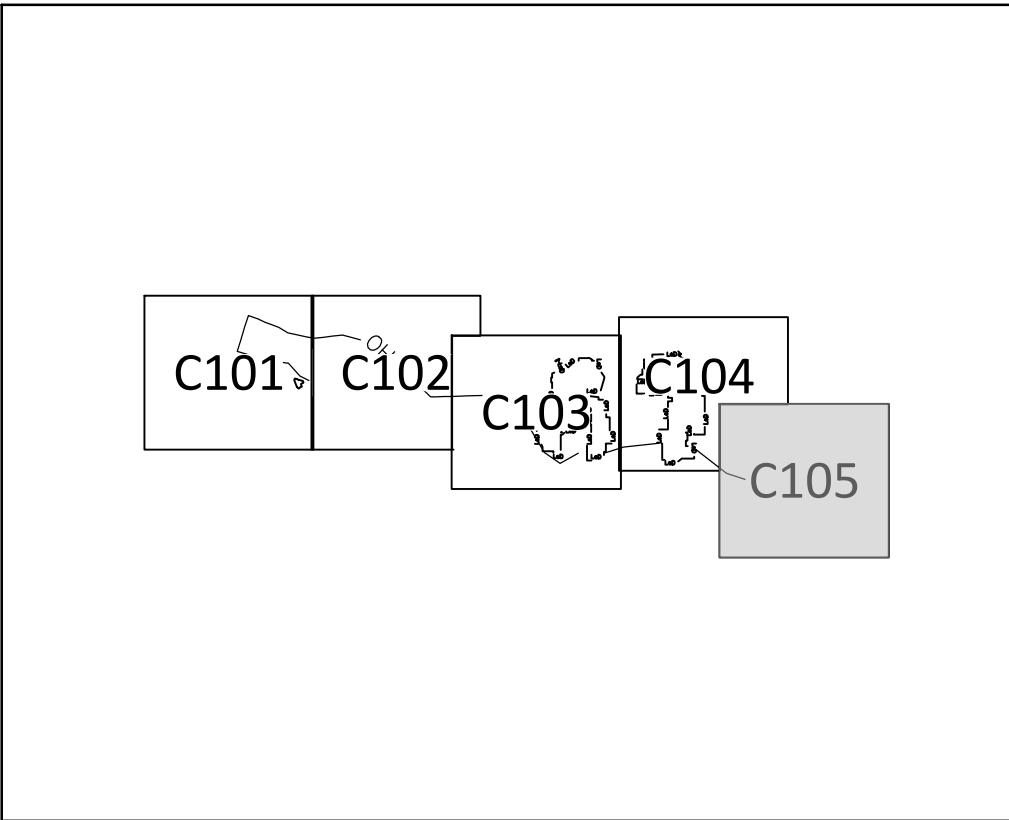
AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT
FREMONT COUNTY, CO, USA
SITE PLAN

REV	DESIGN #	REVISIONS	
		DESCRIPTION	DATE

OPPORTUNITY	
PROJECT	31405989.000
DATE DRAWN	9/15/25
DRAWN BY	AS

0 1/2" 1"
IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE
SHEET

C104



KEY MAP
N.T.S.

LEGEND:

- PROPERTY BOUNDARY
- EXISTING EASEMENT LINE
- EXISTING SETBACK
- EXISTING EXCEPTION BOUNDARY
- EXISTING RIGHT-OF-WAY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING NATURAL GAS LINE
- EXISTING ROAD
- EXISTING DITCH
- EXISTING FIBER OPTIC
- EXISTING OVERHEAD ELECTRICAL
- EXISTING POWER POLE
- EXISTING SURVEY CONTROL POINT
- EXISTING FENCE
- LIMITS OF DISTURBANCE
- GAME FENCE
- FLOW THROUGH FENCE
- OVERHEAD ELECTRICAL
- UNDERGROUND ELECTRICAL
- LAYDOWN AREA
- INVERTER PAD
- 12' GRAVEL ACCESS ROAD
- SOLAR ARRAY
- MODULE BLOCK LIMITS
- LOW WATER CROSSING

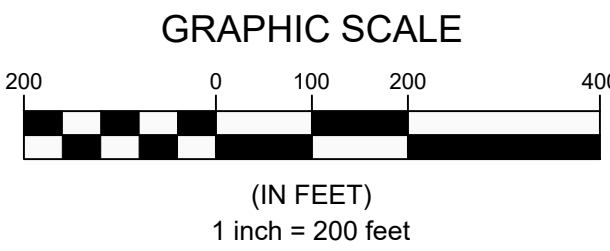
CONSTRUCTION ITEMS:

- 1 8' GAME FENCE (SEE DETAIL D1/C500)
- 2 8' FLOW THROUGH FENCE (SEE DETAIL D1/C501)
- 3 PERIMETER VEHICULAR GATE (SEE DETAIL D3/C500)
- 4 12' INTERIOR ACCESS ROAD (SEE DETAIL D2/C300)
- 5 LOW FLOW WATER CROSSING (SEE DETAIL D1/C400)

FLOOD ZONE:
HOLCIM SOLAR IS LOCATED IN FLOOD ZONE X DEFINED AS AN AREA OUTSIDE OF 0.2% ANNUAL CHANCE FLOOD. THE ZONE X FLOOD ZONE IS SHOWN ON FIRM (FLOOD INSURANCE RATE MAP) FOR FREMONT COUNTY, COLORADO, MAP NUMBER 0800670700E, PANEL 700 OF 925, DATED SEPTEMBER 19, 2007, AND MAP NUMBER 0800670675E, PANEL 675 OF 925, DATED SEPTEMBER 19, 2007.

BASIS OF BEARING:
THE COORDINATES ARE REFERENCED TO COLORADO CENTRAL STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM 1983 (NAD83), WAS USED AS THE BASIS OF COORDINATES AS DERIVED FROM DPOS OBSERVATIONS IN APRIL 2023.

BENCHMARK:
ELEVATIONS ARE REFERENCED TO NAD88 AS DETERMINED LOCALLY BY A POST PROCESSED DATA SESSION FILE NUMBER 200_140645.JPS, WITH A NAD88 (GEOID 18) ELEVATION OF 5036.46 FEET. BENCH MARK POINT IS A NAIL AND WASHER SET.



CLIENT/OWNER:

SOLAR STAR
WHOLESUME
PORTLAND,
LLC.

NOT FOR
CONSTRUCTION

AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT
FREMONT COUNTY, CO, USA
SITE PLAN

REV	DESIGN #	REVISIONS	
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OPPORTUNITY	
PROJECT	31405989.000
DATE DRAWN	9/15/25
DRAWN BY	AS

0 1/2" 1"
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SHEET

C105

CLIENT/OWNER:

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AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT

FREMONT COUNTY, CO, USA

TYPICAL PV SECTIONS
AND DETAILS

REV	DESIGN #	DESCRIPTION	DATE	DB	CB

OPPORTUNITY

PROJECT 31405989.000

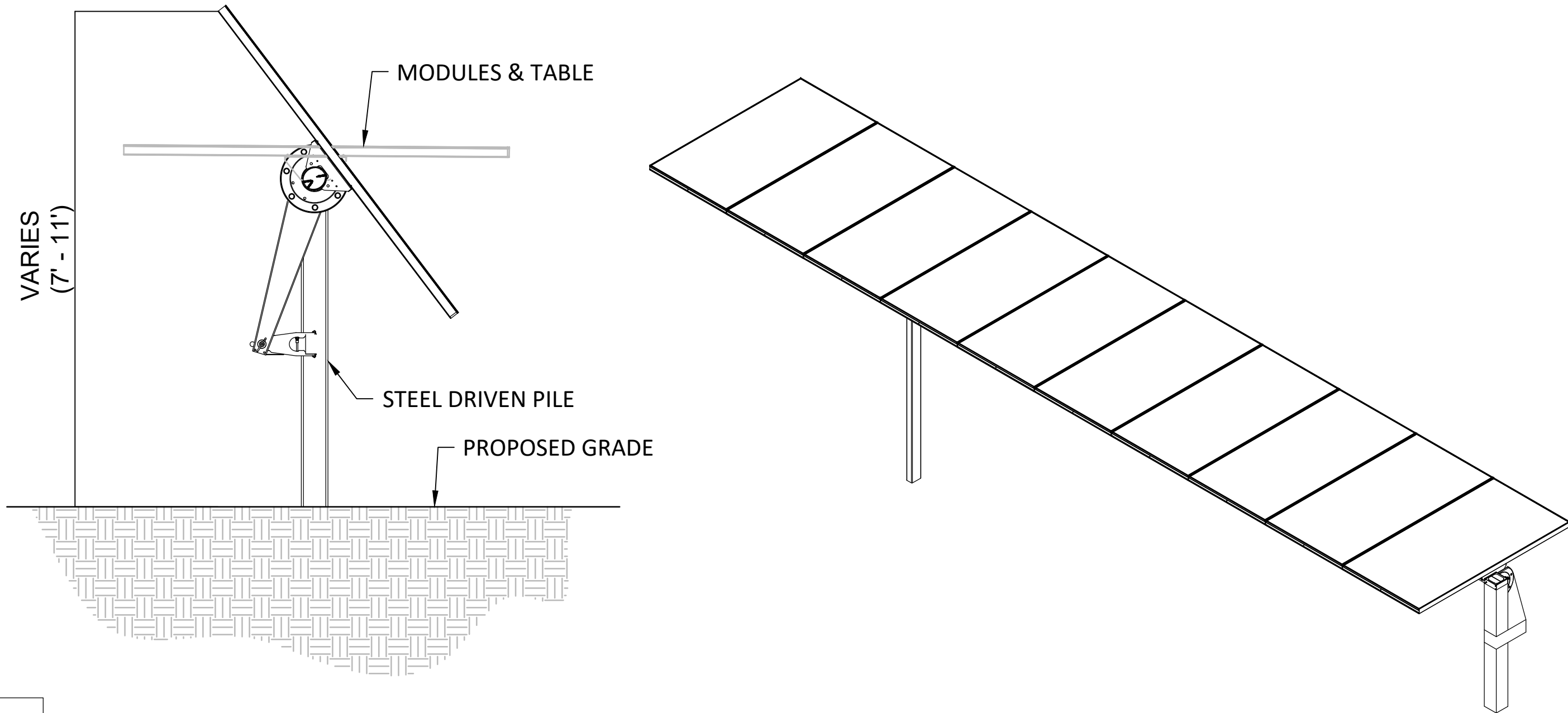
DATE DRAWN 9/15/25

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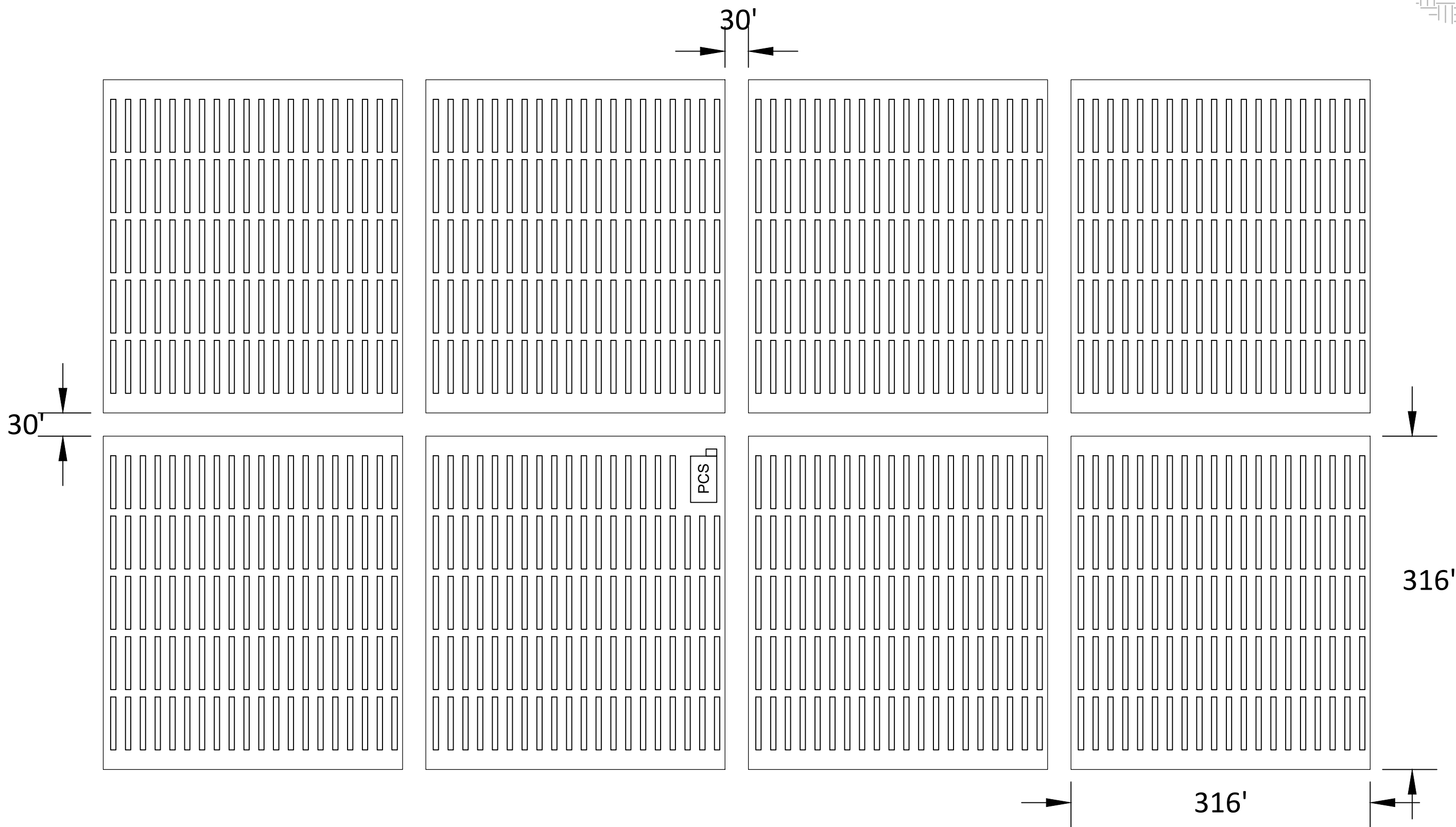
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SHEET

C200

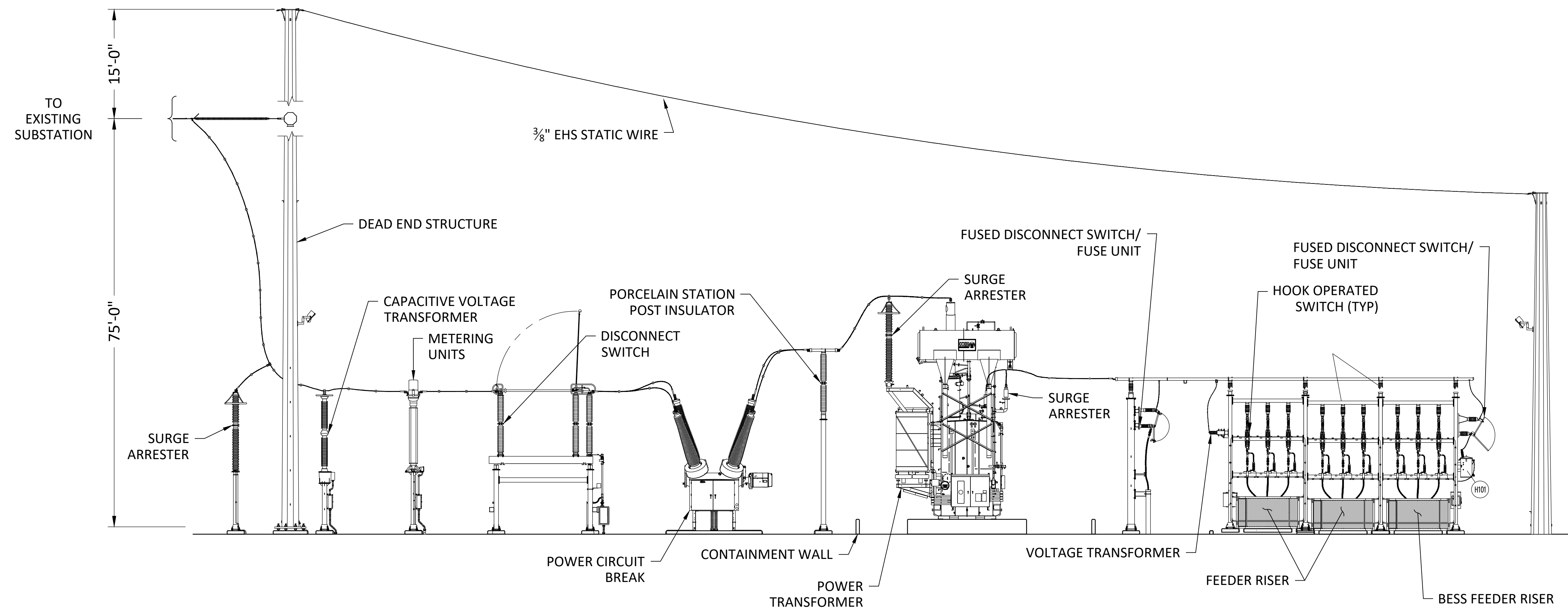


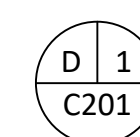
D 1 SINGLE AXIS TRACKER
C200 N.T.S.



D 2 TYPICAL TRACKER ARRAY
C200 N.T.S.

wsp




TYPICAL SUBSTATION ELEVATION
 C201 N.T.S.

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AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT
FREMONT COUNTY, CO, USA

TYPICAL SUBSTATION ELEVATION

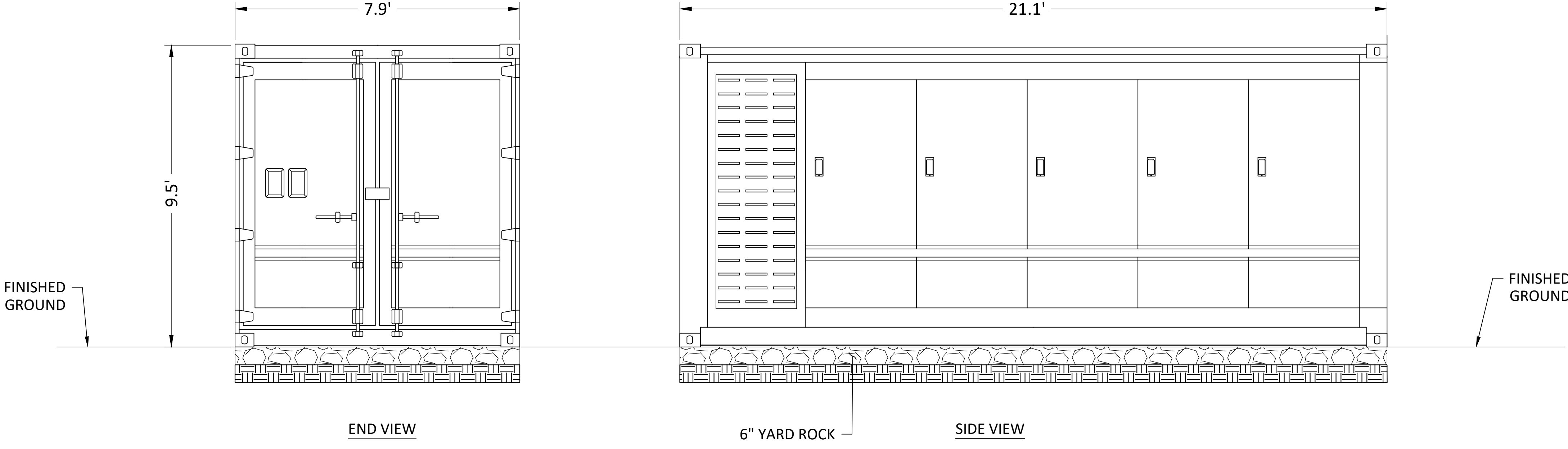
REV	DESIGN #	REVISIONS	
		DESCRIPTION	DATE

OPPORTUNITY	
PROJECT	31405989.000
DATE DRAWN	9/15/25
DRAWN BY	AS

0 1/2" 1"
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 SHEET

C201

wsp



D 1
C202 BATTERY CONTAINER ELEVATION (APPROXIMATE)
N.T.S.



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AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT
FREMONT COUNTY, CO, USA
BATTERY CONTAINER
TYPICAL ELEVATION

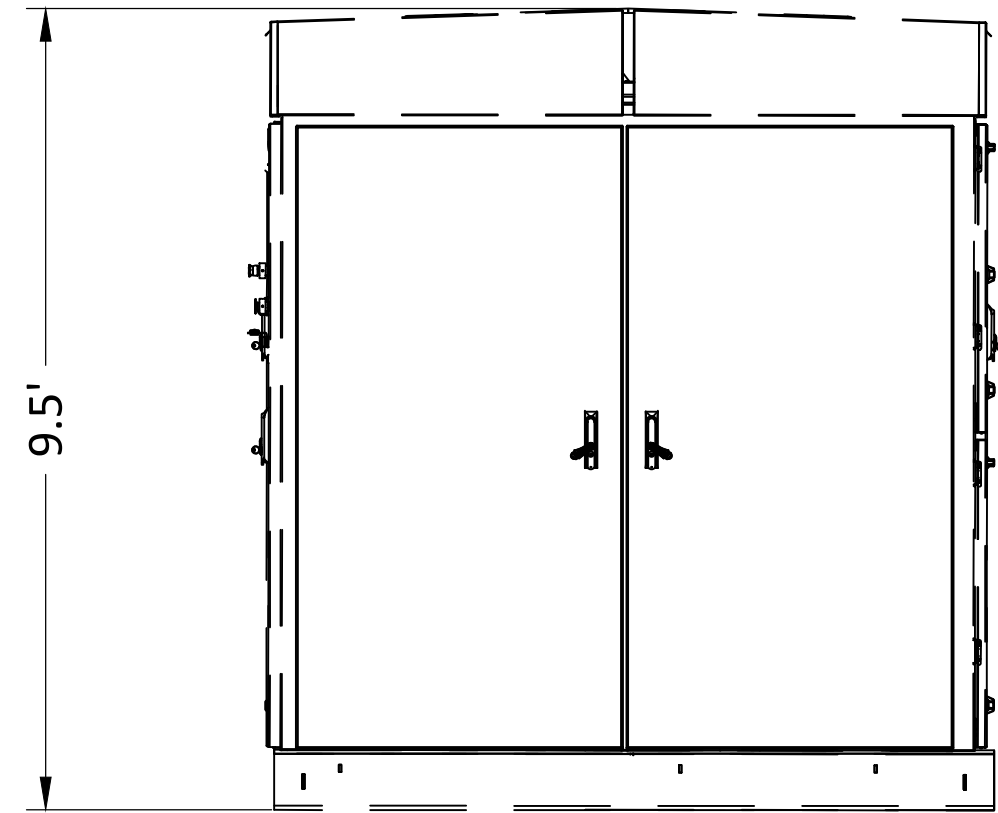
REV	DESIGN #	DESCRIPTION	DATE	DB	CB

OPPORTUNITY	
PROJECT	31405989.000
DATE DRAWN	9/15/25
DRAWN BY	AS

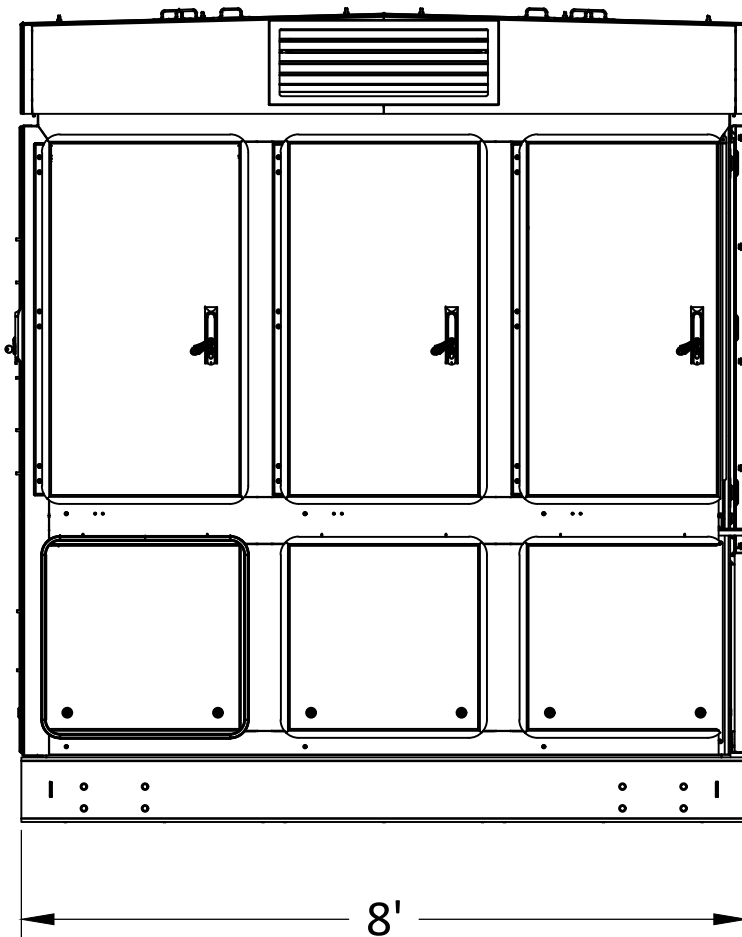
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IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE

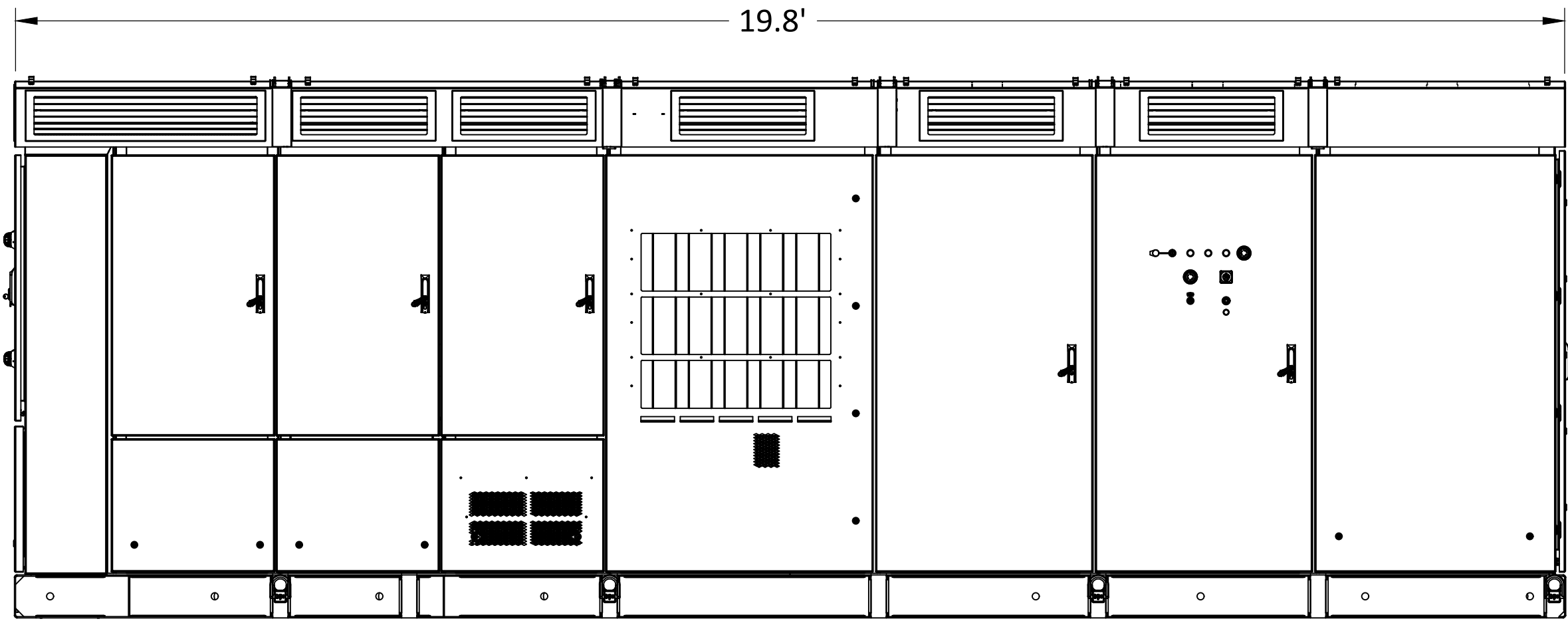
SHEET
C202



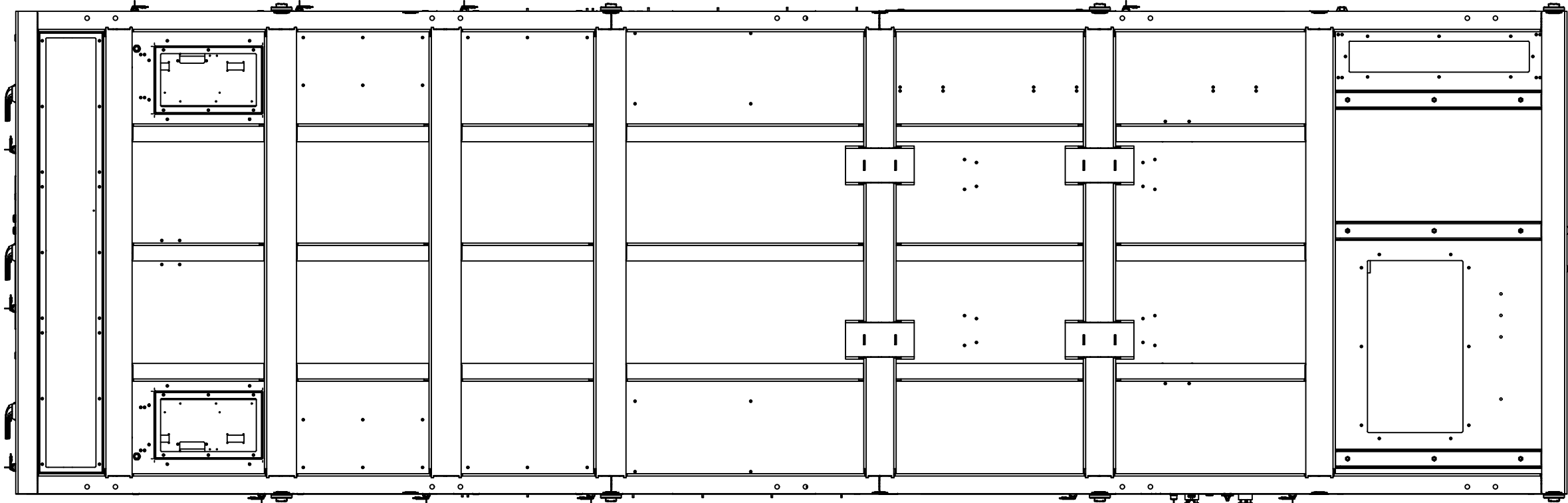
END VIEW



END VIEW



SIDE VIEW



BOTTOM VIEW

INVERTER ELEVATION (APPROXIMATE)
N.T.S.

CLIENT/OWNER:

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WHOLESOME
PORTLAND,
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CONSTRUCTION

AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT
FREMONT COUNTY, CO, USA
INVERTER
TYPICAL ELEVATION

REVISONS		DATE	DB	CB
REV	DESIGN #			

OPPORTUNITY	
PROJECT	31405989.000
DATE DRAWN	9/15/25
DRAWN BY	AS

0 1/2" 1"
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SHEET

C203

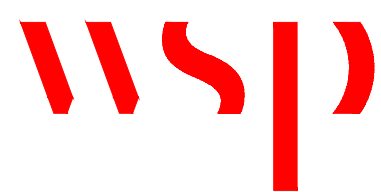
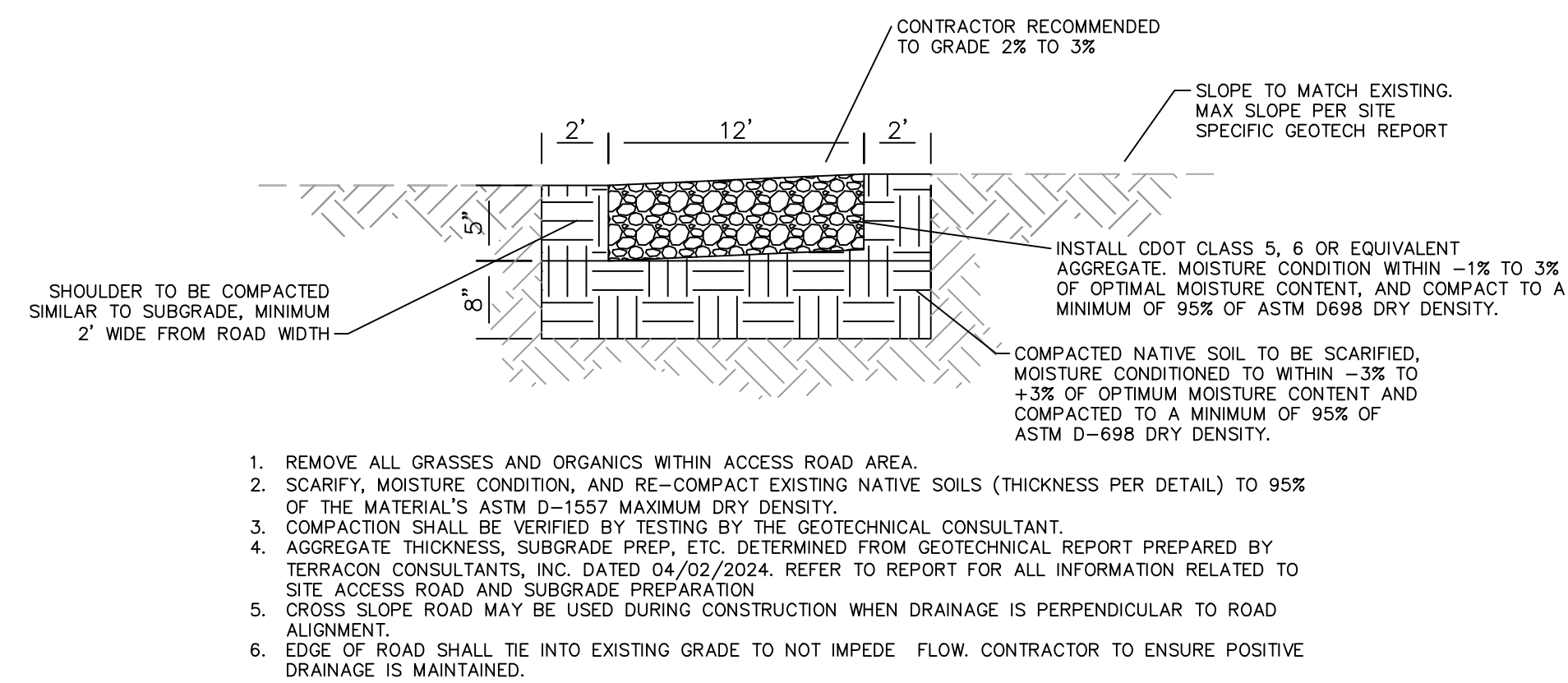
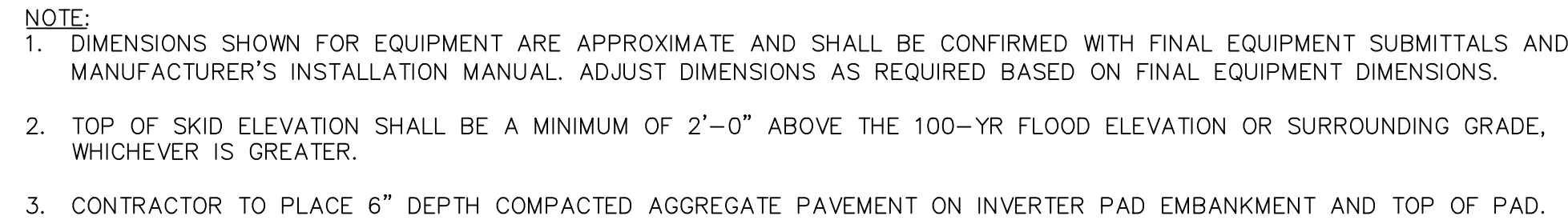


SOLAR STAR
WHOLESOME
PORTLAND,
LLC.

ZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT

FREMONT COUNTY, CO, USA

CONSTRUCTION DETAILS

[illegible]

CLIENT/OWNER:

SOLAR STAR
WHOLESOME
PORTLAND,
LLC.

NOT FOR
CONSTRUCTION

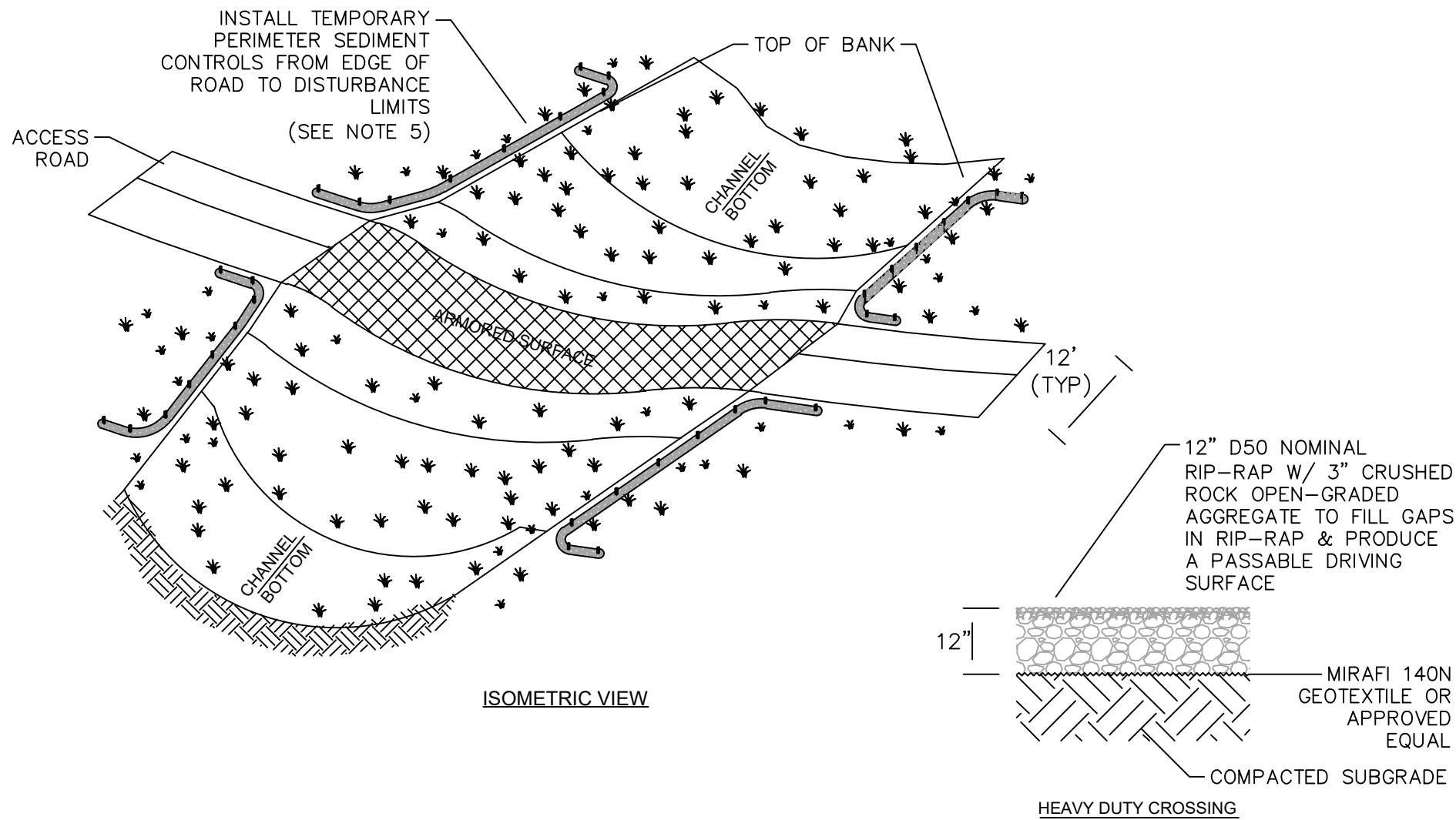
AMRIZE CEMENT INC. PORTLAND PLANT
SOLAR AND STORAGE PROJECT
FREMONT COUNTY, CO, USA
DRAINAGE DETAILS

REV	DESIGN #	DESCRIPTION	DATE	DB	CB

OPPORTUNITY	
PROJECT	31405989.000
DATE DRAWN	9/15/25
DRAWN BY	AS

0 1/2" 1"
IF BAR IS NOT ONE INCH, DRAWING IS NOT TO SCALE
SHEET

C400

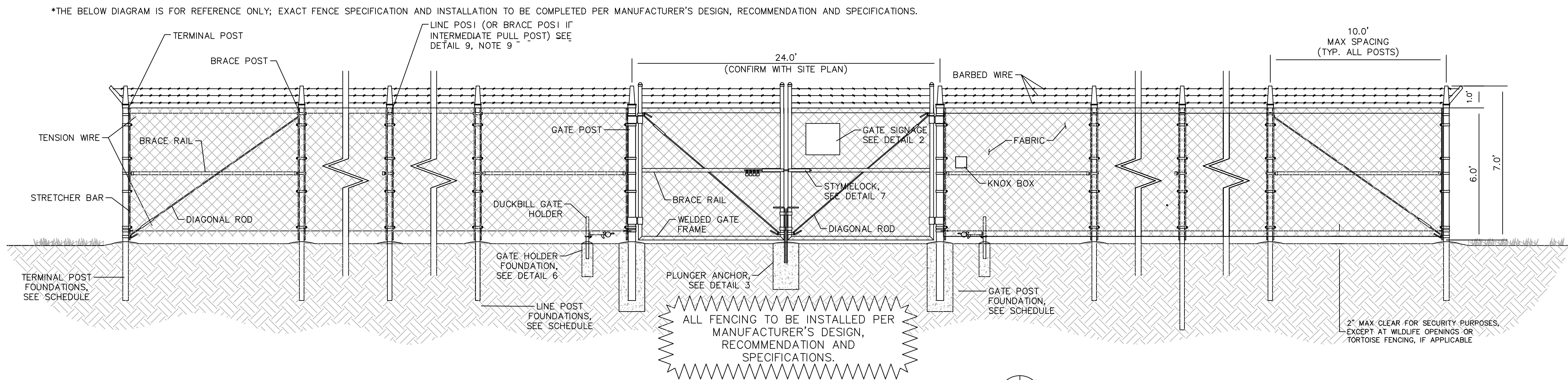


NOTES:

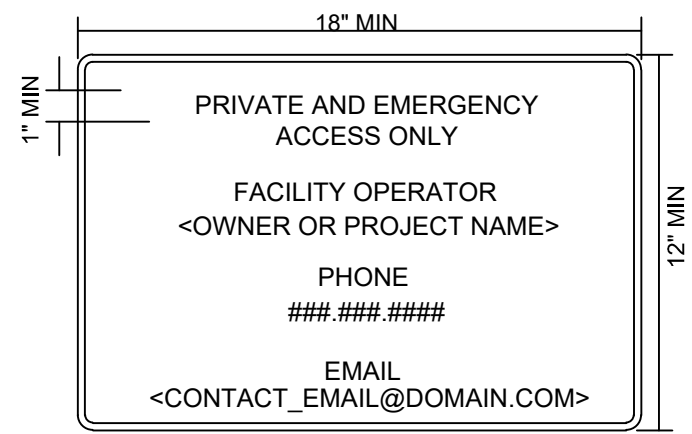
1. CHANNEL SIDE SLOPES MAY REQUIRE MODIFICATION TO CONSTRUCT THE ACCESS DRIVE THROUGH THE CHANNEL THAT MEETS DELIVERY VEHICLE REQUIREMENTS.
2. THE ACCESS ROAD SHALL CROSS THE CHANNEL AS CLOSE TO 90 DEGREES AS POSSIBLE.
3. ENSURE APPROPRIATE SUBGRADE ELEVATION SO THAT THE FINISHED ACCESS ROAD SURFACE ALLOWS WATER TO FLOW THROUGH THE CHANNEL UNIMPEDED AND WITHOUT PONDING UPSTREAM OF ROAD OR ON THE ROAD SURFACE.
4. ARMORED SURFACE TREATMENT OF THE ROAD SURFACE SHALL EXTEND THROUGH THE CHANNEL BOTTOM AND UP THE CHANNEL SIDE SLOPES TO THE OBSERVED TOP OF BANK OF THE CHANNEL, UNLESS OTHERWISE NOTED.
5. PERIMETER SEDIMENT CONTROL MAY CONSIST OF SILT FENCE, FIBERLOGS (BIOROLLS), WOOD MULCH BERMS, OR TOPSOIL BERMS. REFER TO APPROPRIATE DETAIL FOR INSTALLATION REQUIREMENTS.

D 1 LOW WATER CROSSING
C400 N.T.S.





DETAILS SHOWN ON THE CIVIL DETAIL SHEETS THAT ARE NOT NOTED IN THE PLANS ARE PROVIDED FOR REFERENCE ONLY AND SHOULD BE UTILIZED, IF NEEDED. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO USING ANY ALTERNATIVE MEASURES UNLESS OTHERWISE NOTED IN THE PLANS AND GENERAL NOTES.

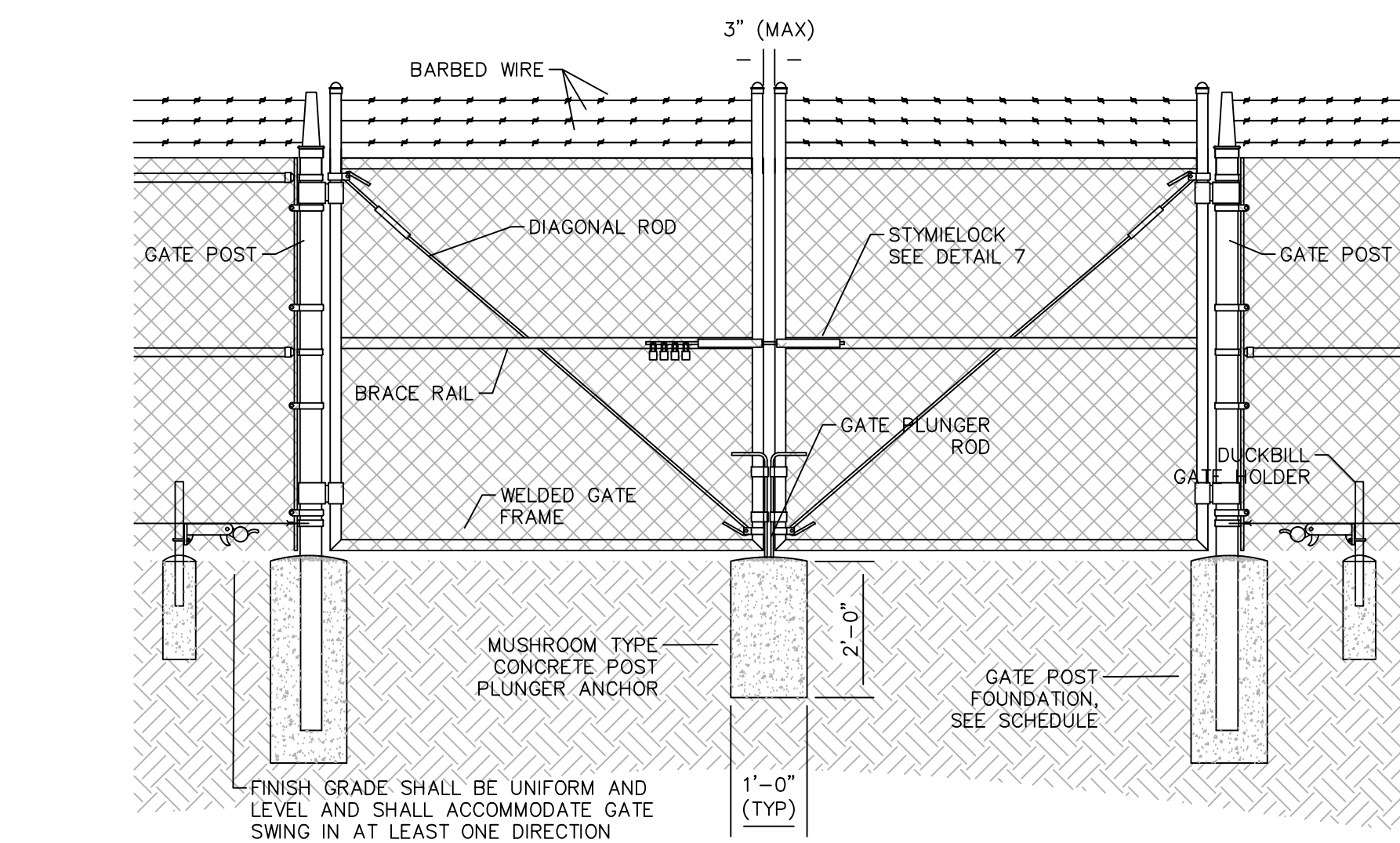


NOTES:

1. TO BE PLACED AT ALL ENTRANCE GATES TO THE SITE
2. SIGN BACKING TO BE REFLECTIVE SHEETING, ASTM TYPE I
REFLECTIVE SHEETING ALSO KNOWN AS ENGINEER GRADE SCOTCHLITE OR BETTER
3. MINIMUM TEXT HEIGHT TO BE 1"

D 2 TYPICAL GATE SIGNAGE

C500 N.T.S.



D 3 TYPICAL DOUBLE SWING GATE

C500 N.T.S.

FENCE POST SCHEDULE

CHAIN LINK FENCE POST SCHEDULE					
FENCE POST	NPS (NOMINAL PIPE SIZE)	STEEL GRADE	FOUNDATION DIMENSIONS		
			CONCRETE	DRIVEN POST	
			H	D	H
LINE POST	P1.5	WT-40/ SCH 40	3'-6"	0'-10"	4'-0"
TERMINAL AND BRACE POST	P2.5	WT-40/ SCH 40	4'-0"	1'-0"	5'-0"
GATE POST - VEHICLE	P3.5	WT-40/ SCH 40	4'-0"	1'-4"	-
GATE POST - PEDESTRIAN	P2.5	WT-40/ SCH 40	4'-0"	1'-0"	5'-0"
BRACE RAIL	P1.25	WT-40/ SCH 40	-	-	-
WELDED GATE FRAME	P1.5	WT-40/ SCH 40	-	-	-

(A) FENCE POST DIMENSIONS ARE LISTED BELOW AND ALL POSTS SHALL BE IN ACCORDANCE WITH ASTM F1083, SCHEDULE 40, SCHEDULE 80 OR ASTM F1043, GROUP IC:

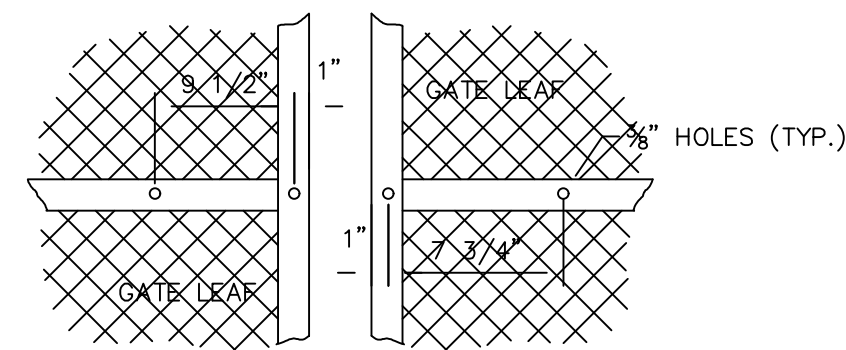
NPS (NOMINAL PIPE SIZE)	OUTSIDE DIAMETER	PIPE WALL THICKNESS		
		WT-40 (ASTM F1043 GROUP IC) FY=50 KSI	SCHEDULE 40 (ASTM F1083) FY=30 KSI	SCHEDULE 80 (ASTM F1083) FY=30 KSI
P1.25	1.660"	0.111"	0.140"	0.191"
P1.5	1.900"	0.120"	0.145"	0.200"
P2	2.375"	0.130"	0.154"	0.218"
P2.5	2.875"	0.160"	0.203"	0.276"
P3	3.500"	0.160"	0.216"	0.300"
P3.5	4.000"	0.160"	0.226"	0.318"
P4	4.500"	-	0.237"	0.337"
P5	5.563"	-	0.258"	0.375"
P6	6.625"	-	0.280"	0.432"

FENCE POST NOTES

1. FOUNDATIONS SHALL BE CONCRETE OR DRIVEN DIRECTLY INTO GRADE AS SHOWN BELOW. DEPTH SHALL BE A MINIMUM OF 6" BELOW FROST DEPTH OR AS LISTED IN THE FENCE POST SCHEDULE, WHICHEVER IS DEEPER.
2. FOR FOUNDATIONS SET IN CONCRETE, TYPE A CONCRETE SHALL BE USED UNLESS NOTED OTHERWISE AND APPROVED BY THE ENGINEER
2.1. CONCRETE STRENGTH SHALL BE A MINIMUM OF 2500 PSI
3. TERMINAL AND BRACE POSTS PAIRS IN CONCRETE FOOTERS AT ENDS, CORNERS OR CHANGES IN GRADE. LINE POSTS TO BE DRIVEN OR PRE-DRILLED AND BACKFILLED WITH NATIVE SOIL.

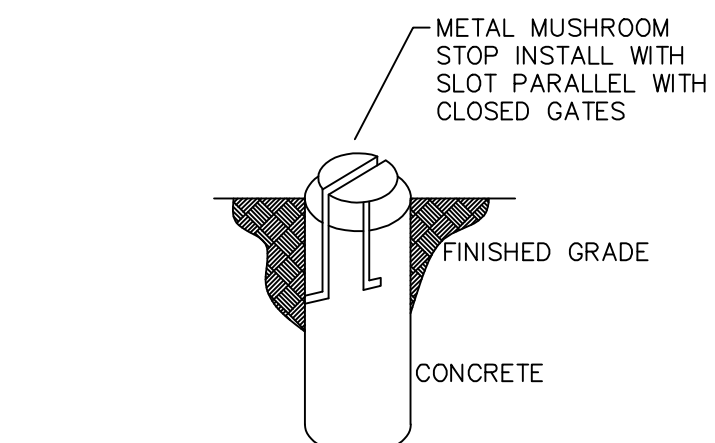
D 1 TYPICAL FENCING

C500 N.T.S.



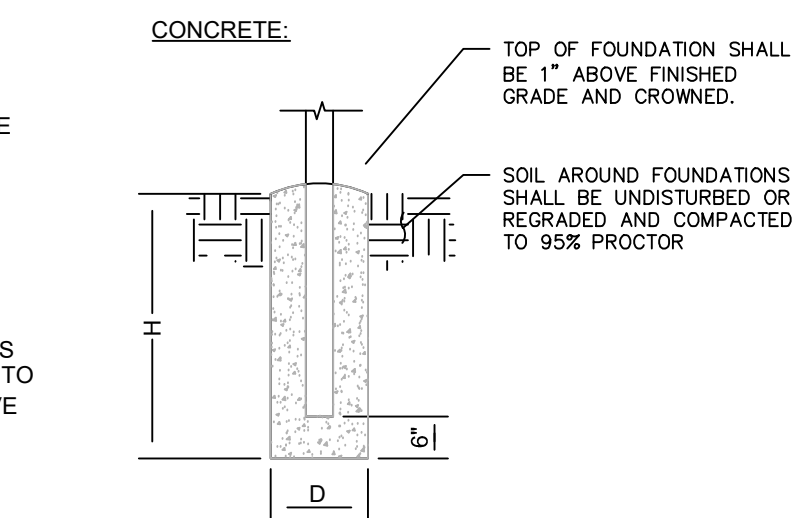
D 4 GATE FACE

C500 N.T.S.

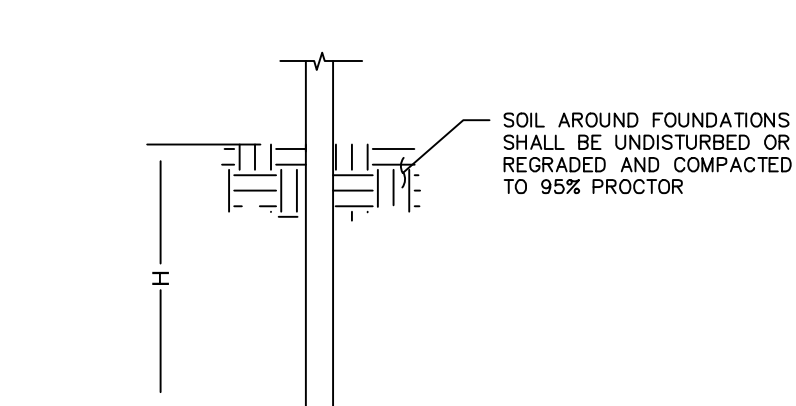


D 5 MUSHROOM ANCHOR

C500 N.T.S.



DRIVEN POST:



D 6 DUCKBILL GATE HOLDER ANCHOR

C500 N.T.S.

NOTES

1. STATE, AND LOCAL STANDARDS AND SPECIFICATIONS PERTAINING TO THIS PROJECT TAKE PRECEDENCE OVER THIS DRAWING.
2. ALL FENCING SHALL BE INSTALLED PER THE MANUFACTURER'S DESIGN, RECOMMENDATIONS AND SPECIFICATIONS AS WELL AS OWNER SCOPE OF WORK SPECIFICATIONS. NOTES ON THIS SHEET ARE PART OF THE PROJECT REQUIREMENTS, BUT ARE NOT INTENDED TO REPLACE THE MANUFACTURER'S DESIGN. IN CASE OF CONFLICTS BETWEEN THE MANUFACTURER'S DESIGN AND THIS SHEET, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
3. SITE CONDITIONS SHALL MEET THE MINIMUM CRITERIA SPECIFIED IN THIS DRAWING. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE ARE DISCREPANCIES WITH EXISTING SITE CONDITIONS.
4. THE POSTS AND HARDWARE OUTLINED IN THIS DRAWING ARE A MINIMUM SIZE FOR NON-SLATTED FENCE. LARGER OR HEAVIER POSTS AND HARDWARE SIZES MAY BE USED UPON APPROVAL. IF APPLICABLE, SLATS AND/OR SCREENS USED FOR VISUAL SCREENING MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
5. INSTALL SWING GATES PER ASTM F-900.
6. ALL GATE FRAMES SHALL BE WELDED. ALL WELDING SHALL BE COATED WITH (2) COATS OF X-O RUST PROFESSIONAL ALUMINUM PAINT.
7. ALL PIPE AND FENCE HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-A123 AFTER FABRICATION.
8. ALL OPEN POSTS SHALL HAVE END-CAPS.
9. INTERMEDIATE PULL POST ASSEMBLIES SHALL BE SPACED AT A MAXIMUM OF 500' INTERVALS OR MIDWAY BETWEEN PULL POSTS WHEN THE DISTANCE BETWEEN SUCH POSTS IS LESS THAN 1,000' AND MORE THAN 500'.
10. USE GALVANIZED HOG-RING WIRE TO MOUNT ALL SIGNS.
11. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC AND FASTENED WITH BOLTS ON THE INSIDE OF FENCE.
12. MUSHROOM ANCHOR & PLUNGER REQUIRED FOR GATE.
13. GENERAL CONTRACTOR IS RESPONSIBLE FOR GATE LOCK.
14. THE KNOX BOX SHALL BE OF MAKE AND MODEL APPROVED BY THE FIRE MARSHALL AND LOCATED AT OR NEAR THE RECOGNIZED PUBLIC ENTRANCES TO THE FACILITY AS APPROVED BY THE FIRE INSPECTOR.
15. KNOX BOXES SHALL BE LOCATED AT OR NEAR EACH RECOGNIZED PUBLIC ENTRANCE TO THE PROPERTY
16. IN NO CASE SHALL THE KNOX BOX BE LOCATED AT A HEIGHT OF LESS THAN FOUR (4) FEET FROM THE GROUND OR MORE THAN SIX (6) FEET FROM THE GROUND; ALL OTHER LOCATIONS FOR THE KNOX BOX SHALL BE APPROVED BY THE FIRE MARSHALL.
17. PROVIDE ACCESS KEYS TO THE FIRE MARSHALL TO BE SECURED INTO THE KNOX BOX. A SEPARATE KEY SHALL BE PROVIDED TO THE POLICE CHIEF, AND A SEPARATE SUB-MASTERED KEY SHALL BE PROVIDED TO THE POLICE CHIEF, AND A SEPARATE KEY TO THE DIRECTOR OF THE EMERGENCY MEDICAL SERVICES.
18. REFER TO ELECTRICAL PLANS FOR GROUNDING DETAILS.

MATERIALS

FENCE POSTS: SEE SCHEDULE.

FABRIC: 6'-0" HIGH CHAIN LINK, 11GA. 2" DIAMOND MESH, GALVANIZED 1.2 OZ ZINC. SELVAGE: KNUCKLE BOTTOM, TWIST TOP.

DIAGONAL ROD: 3/8" ROD WITH GALVANIZED STEEL TURNBUCKLE OR OR DIAGONAL THREADED ROD.

STRETCHER BAR: 3/16" X 3/4" (MIN.) FULL HEIGHT.

TIE WIRE: 10 GA. STEEL. A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED 12" O.C. POSTS/GATES AND 16" RAILS/WIRE.

TENSION WIRE: 11 GA. COIL SPRING TENSION WIRE INSTALL FENCING PER ASTM F-567.

BARBED WIRE: CLASS 1 BARBED WIRE. 3-STRANDS 12-1/2 GA. BARBS SPACED APPROXIMATELY 5" ON CENTER. ANGLED OUTWARD AT 45 DEGREES. RAZOR WIRE IS PROHIBITED.

CONCRETE FENCE/GATE POST FOOTINGS SULFATE CORROSION EXPOSURE CLASS PER ACI 318 ACCORDING TO GEOTECH/CORROSION REPORT CITED ON COVER SHEET OF THIS PLAN SET: S2 (NON-CORROSIVE)
MIN STRENGTH: 4500 PSI
MAX WATER/CEMENT RATIO BY WEIGHT: 0.45
MINIMUM CEMENT RATING: TYPE II

CLIENT/OWNER:

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FREMONT COUNTY, CO, USA

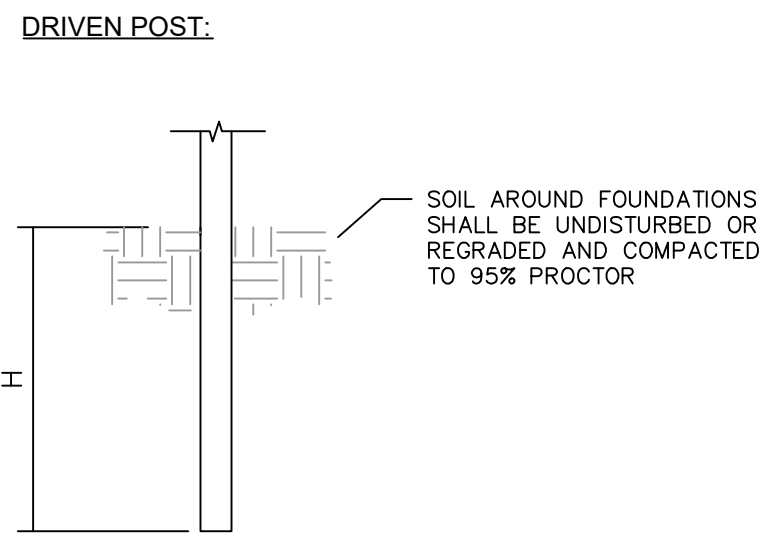
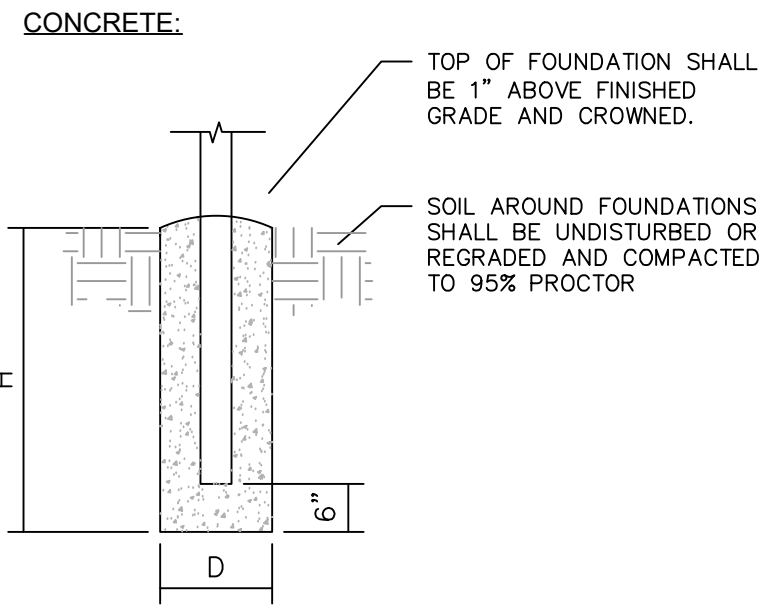
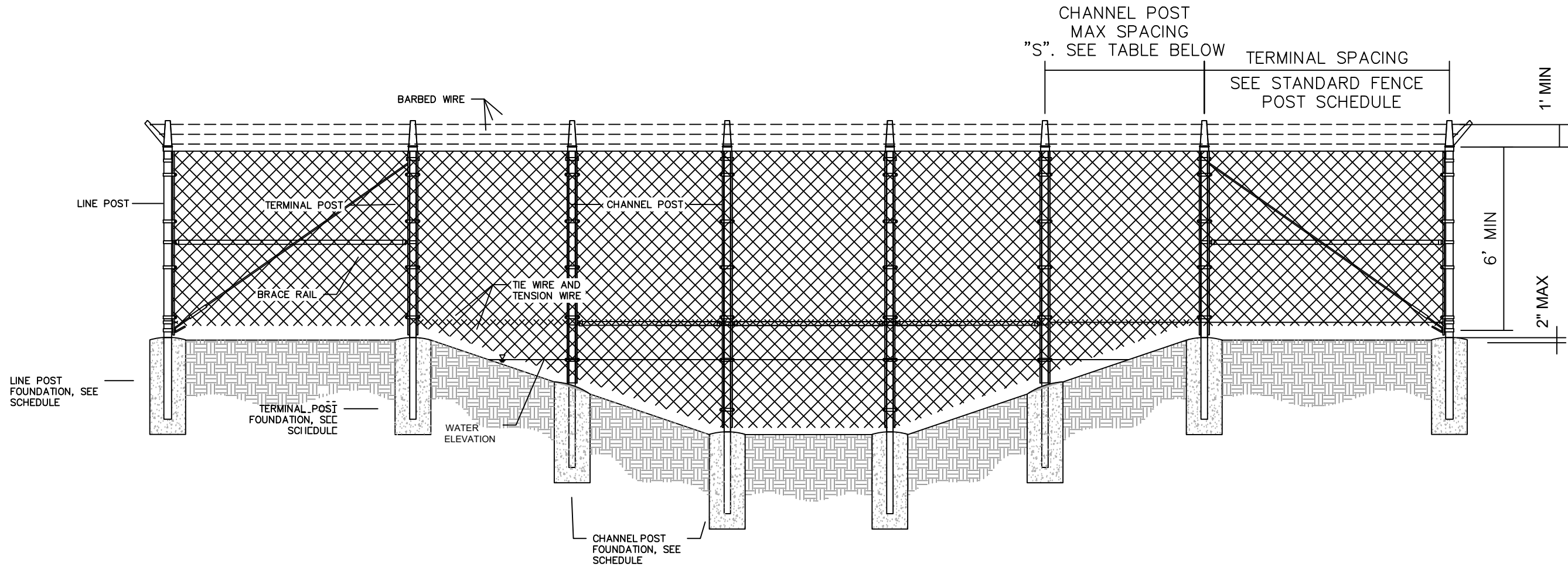
FENCING DETAILS

REVISIONS			
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DRAWN BY	AS

0 1/2" 1"
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SHEET

C500



FENCE POST SCHEDULE						
FENCE POST	NOMINAL PIPE SIZE (NPS)	CONCRETE			DRIVEN POST	
		H	D	S	H	S
CHANNEL POST	3.5"	5'-9"	1'-4"	20'-0"	5'-9"	10'-0"

D 1
C501

 FLOW THROUGH FENCE DETAIL
N.T.S.

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C501