

Alamogordo Park Restrooms

Alamogordo, New Mexico

CONSTRUCTION DOCUMENTS

date 09.15.21
project no. 21.16

PUBLIC WORKS BID NO. 2021-005



PROJECT DATA

ITEM	CODE REQUIREMENT	PROVIDED
BUILDING OCCUPANCY	U	U
CONSTRUCTION TYPE	TYPE V - B	TYPE V - B
ALLOWABLE AREA	5,500 S.F.	(2) R/R BLDG. 185 S.F. (1) R/R BLDG. 2 118 S.F.
MAX. HEIGHT / STORIES	40 FT. / 1 STORIES	14'2" FT. / 1 STORY
PUBLIC OCCUPANT LOAD	3 (RATIO OF 1/300 S.F.)	-
NO. OF EXITS	-	3
EXIT WIDTH	32" MIN.	36"
EXTERIOR WALL FIRE RESISTANCE	N/A	-
MIN. CORRIDOR WIDTH	N/A	-

REGULATING CODES

INTERNATIONAL BUILDING CODE	2015
UNIFORM MECHANICAL CODE	2015
UNIFORM PLUMBING CODE	2015
INTERNATIONAL FIRE CODE	2015
NATIONAL ELECTRIC CODE	2017
NEW MEXICO ELECTRICAL CODE	2017
AMERICAN NATIONAL STANDARDS INSTITUTE A117	2009
NEW MEXICO BUILDING CODE	2015

ABBREVIATIONS

ACT	ACOUSTICAL TILE
ACU	AIR HANDLER UNIT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ALUM	ALUMINUM
ASPH	ASPHALT
B.O.F.	BOTTOM OF FOOTING
C&G	CURB & GUTTER
C.J.	CONTROL JOINT
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
C.O.L.C.	CITY OF LAS CRUCES
CONC	CONCRETE
DEG	DEGREES
DEMO	DEMOLISH, DEMOLITION
DET	DETAIL
DG	DOOR GRILLE
DS	DOWNSPOUT
DUMP	DUMPSTER
EL & ELEC	ELECTRICAL COMPONENT
EXST	EXISTING
E.J.	EXPANSION JOINT
FD	FIRE DAMPER
FE	FIRE EXTINGUISHER
F.F.	FRESH FLOOR
FP	FLAG POLE
F.O.B.	FACE OF BRICK
F.O.S.	FACE OF STUDY FACE OF SLAB
GA	GAUGE
GALV	GALVANIZED
GS	GAS METER
GYP BD	GYPSPUM BOARD
H.C.	HANDICAPPED
HDW	HARDWARE
H.M.	HOLLOW METAL
HT	HEIGHT
LP	LIGHT POLE
MATL	MATERIAL
MAX	MAXIMUM
MD	MOTION DETECTOR
MH	MANHOLE
MIN	MINIMUM
MTL	METAL
N.I.C.	NOT IN CONTRACT
NO	NUMBER
OC	ON CENTER
P	PAINT AND COLOR NO.
PL	PLASTIC LAMINATE AND COLOR NO.
PT	PRESSURE TREATED
PVC	POLY VINYL CHLORIDE
RAD	RADIUS
REINF	REINFORCING
RET	RETAINING
SCHD	SOLID CORE WOOD
SM	SIMILAR
SHT	SHEET
SQ	SQUARE
STL	STEEL
THK	THICK
T.J.	TOOLED JOINT
T.O.B.	TOP OF BRICK
T.O.C.	TOP OF CURB
T.O.C.W.	TOP OF CONCRETE WALK
T.O.P.	TOP OF PARAPET
T.O.W.	TOP OF WALL STRUCTURE
TRNS	TRANSFORMER
T.S.	TUBE STEEL
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
USPS	UNITED STATES POSTAL SERVICE
UW	UTILITY WELL
VCT	VINYL COMPOSITION TILE
W.C.O.	WALL CLEAN OUT
WD	WOOD
WH	WALL HYDRANT
WL	WELL
WP	WATER PIPE
WM	WATER METER
WT	WATER
WWF	WELDED WIRE FABRIC
WWM	WOVEN WIRE MESH

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AS100	OVERALL SITE PLAN BALLOON PARK
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A200	ELEVATIONS AND SECTIONS BID LOT-1
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MP301	ISOMETRIC RISER DIAGRAMS
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E202	ELECTRICAL PLANS (ALAMEDA PARK ZOO BID LOT-3)
E300	ELECTRICAL DETAILS

PROJECT TEAM

OWNER	ARCHITECT	MECHANICAL, ELECTRICAL & PLUMBING
CITY OF ALAMOGORDO 1376 EAST NINTH STREET ALAMOGORDO, NM 88003 P 575.439.4235, ext. 1 F CONTACT: NANCY BESHALER, PROJECT MANAGER	STUDIO D 509 S. MAIN LAS CRUCES, NM 88001 P 575.521.3757 F 575.521.3880 CONTACT: JASON CLARK	RAXIS ENGINEERING 1712 TEXAS ST. EL PASO, TX 79901 P 915.539.2516 F CONTACT: JOSE A. MORALES

SITE REQUIREMENTS

RESTROOM BUILDING(S) WILL BE ACCESSORY/UTILITY BUILDING(S) TO THE EXISTING PARK(S). ALL OTHER SITE CONDITIONS ARE EXISTING TO REMAIN AND NO MODIFICATIONS WILL BE MADE TO ANY OTHER PORTION OF THE SITE(S).

OCCUPANCY LOAD

THE OCCUPANT LOAD OF THE BUILDING WILL BE BASED ON THE INTENDED USE OF THE BUILDING. (2) T/R BLDG. CONSISTS OF TWO SINGLE-USE RESTROOMS AND ONE PLUMBING CHASE. THE OVERALL OCCUPANT LOAD WILL BE ESTIMATED AS 3-OCCUPANTS TOTAL. (1) T/R BLDG. CONSISTS OF ONE SINGLE-USE RESTROOM AND ONE PLUMBING CHASE. THE OVERALL OCCUPANT LOAD WILL BE ESTIMATED AS 2-OCCUPANTS TOTAL.

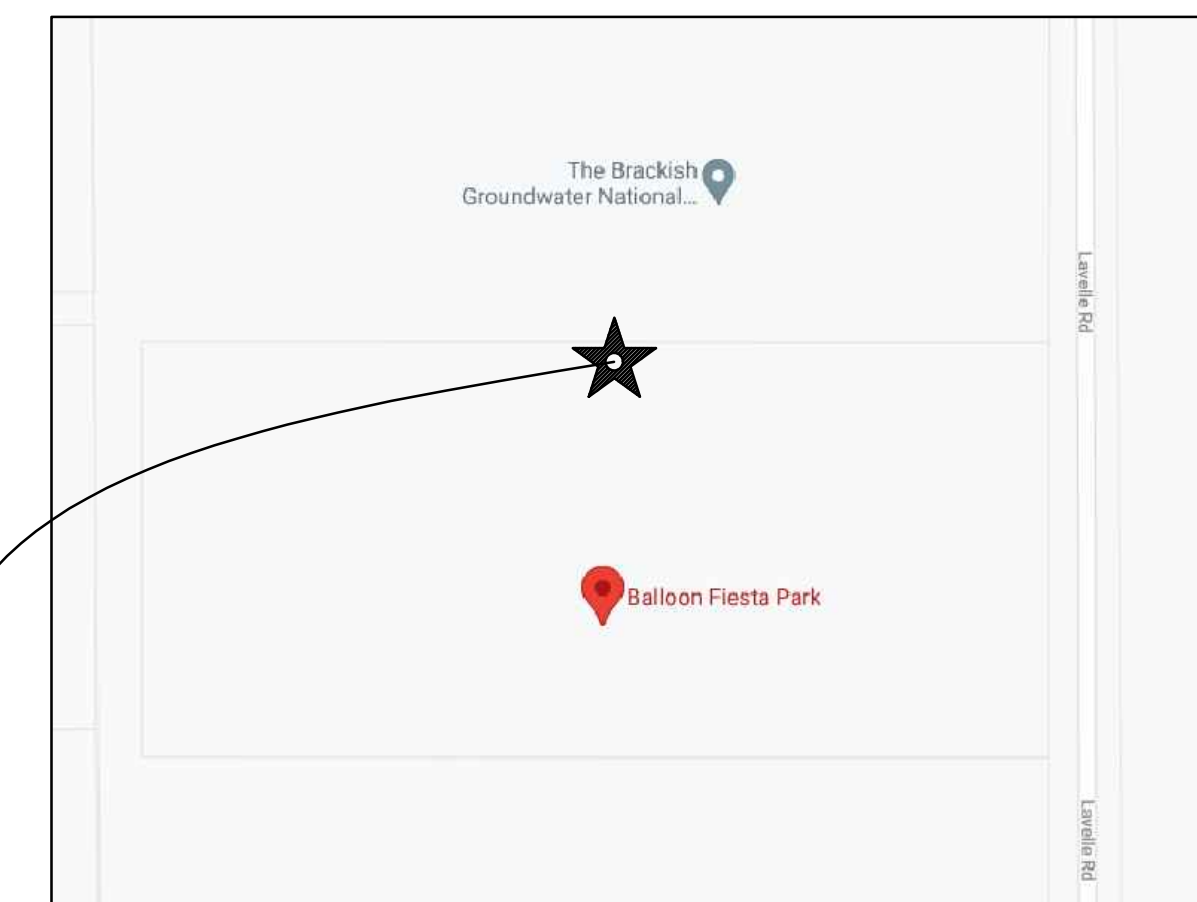
PLUMBING FIXTURE REQUIREMENTS

THE PROPOSED PROJECT IS TWO STAND ALONE PUBLIC RESTROOM FACILITIES. ONE FOR THE BALLOON FIESTA PARK (2 T/R BLDG.) AND ONE FOR THE ALAMEDA PARK ZOO (1 T/R BLDG.). PLUMBING FIXTURES TO BE PROVIDED ARE AS SHOWN ON THE DRAWINGS.

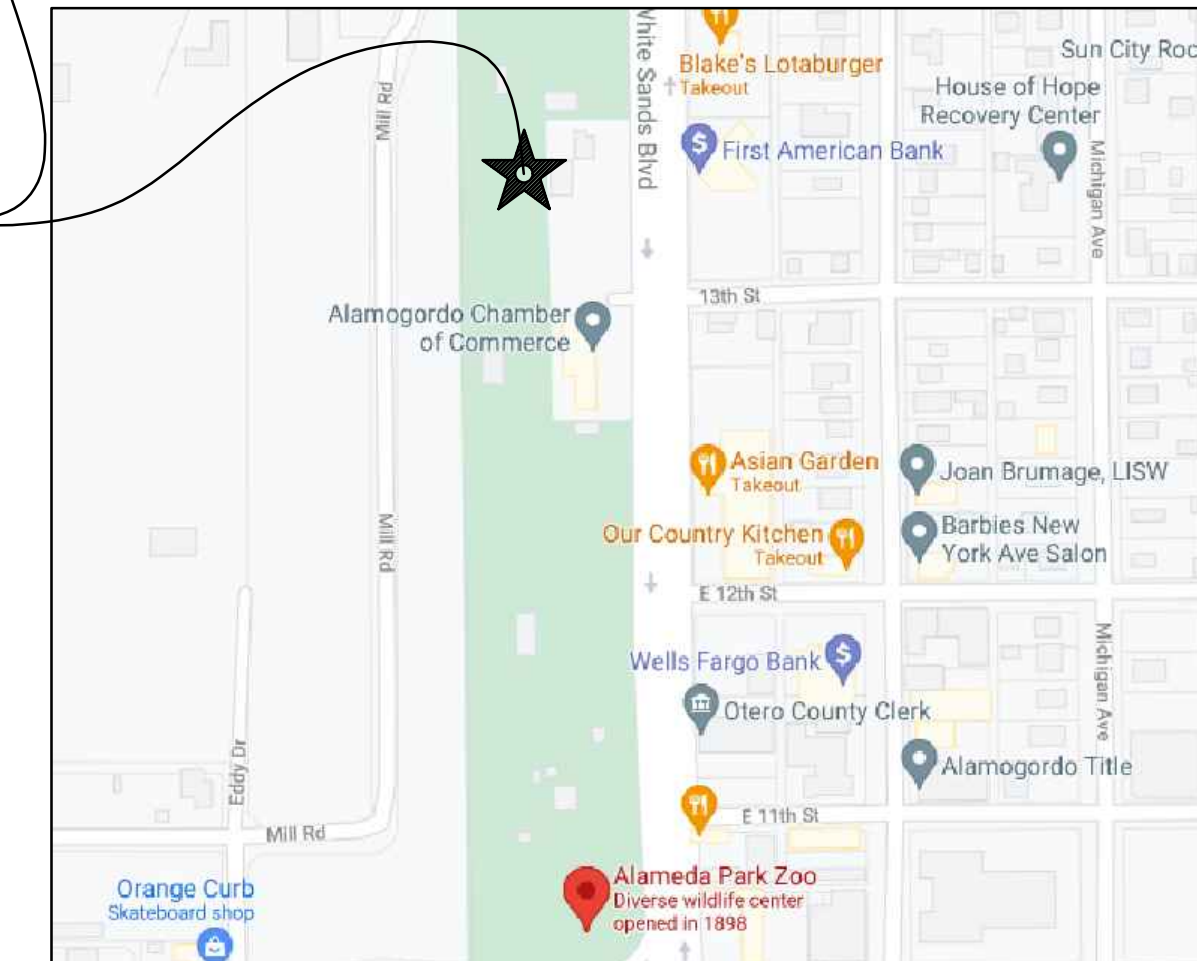
SYMBOLS / REFERENCE TAGS

	DETAIL		ELEVATION
	SHEET		SHEET
	BUILDING OR WALL SECTION		ELEVATION REFERENCE
	DETAIL REFERENCE		WINDOW I.D.
	CONTROL POINT ELEVATION		DOOR I.D.

BALLOON FIESTA PARK - LAVELLE RD.



ALAMEDA PARK ZOO - WHITE SANDS BLVD.



PROJECT LOCATION



VICINITY MAPS

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION DATE

Project no: 21.16
Date: April 2021
Sheet:

Date: Sep 15, 2021 - 4:39pm User: Station 5
 Drawing File: K:\2021 Projects\2116 Alamogordo Restroom Projects\DWG\Sheets\2116-AS100.dwg
 Last Saved By: Station 5 Sep 02, 2021 - 6:00pm
 Layout Name: AS100



GENERAL NOTES:

- A. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON PLANS AND EXISTING SITE. THE ARCHITECT SHALL BE NOTIFIED OF CONFLICTS OR VARIATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- B. THE ARCHITECT PRODUCING THESE PLANS WILL NOT BE RESPONSIBLE FOR FIELD CHANGES AND DECISIONS UNLESS NOTIFIED IN WRITING OF CHANGES AND THEN ONLY BY WRITTEN APPROVAL BY THE ARCHITECT.
- C. ALL SCALE PLAN DIMENSIONS ARE TO NOMINAL FACE OF STUD OR FACE OF MASONRY UNLESS OTHERWISE NOTED.
- D. CONTRACTOR SHALL NOT SCALE DRAWINGS. IN THE EVENT OF OMISSION OF DIMENSIONS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO WILL LEAVE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY DISCREPANCIES, CORRECTIONS, ETC., RESULTING FROM THE SAME.
- E. THE CONTRACTOR SHALL PROVIDE PROTECTION AS NECESSARY TO PREVENT DAMAGE TO THE EXISTING CONSTRUCTION NOT TO BE REMOVED UNDER CONTRACT AND ANY/ALL ITEMS INDICATED TO REMAIN IN PLACE.
- F. ANY AND ALL ITEMS DAMAGED DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR TO A LIKE NEW CONDITION AT HIS EXPENSE.
- G. THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS CAUSED BY THE WORK OF THIS PROJECT AND SHALL SOLELY BE RESPONSIBLE FOR KEEPING THE PREMISES CLEAN AND NEAT AT ALL TIMES.
- H. THERE SHALL BE LITTLE IF NO INTERRUPTION TO THE ADJACENT PROPERTIES DURING THE COURSE OF CONSTRUCTION. UNAVOIDABLE INTERRUPTIONS IN SERVICES SHALL BE DISCUSSED, AGREED UPON AND SCHEDULED WITH THE CITY OF ALAMOGORDO.
- I. ANY AND ALL CONFLICTS FOUND DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING, SO THAT ADDITIONAL INSTRUCTIONS CAN BE FORWARDED TO THE CONTRACTOR.
- J. THE CONTRACTOR SHALL PROVIDE ALL BARRICADES, FENCES, COVERED WALKS, PLANKING, FENCES LIGHTING, BRACING, SHORING, WARNING SIGNS, GUARDS, ETC. AS REQUIRED FOR PROTECTION OF WORKMEN, THE PUBLIC, AND ADJOINING PROPERTIES.
- K. ALL WALLS AT RESTROOMS AND JANITOR CLOSETS SHALL BE INSTALLED UP TO DECK.

KEYED NOTES (FP)

- 1. EXISTING 27" SAS LINE, APPROXIMATE DEPTH OF 11" BELOW GRADE, CONTRACTOR TO COORDINATE WITH PLUMBING DRAWINGS FOR P.O.C. TO SEWER MAIN.
- 2. EXISTING 6" WATER LINE, CONTRACTOR TO RE-ROUTE EXISTING WATER LINE AROUND NEW BUILDING, SEE SITE PLUMBING.
- 3. CUT EXISTING 6" WATER LINE AND RE-ROUTE AS REQUIRE BY NEW CONSTRUCTION.
- 4. CONTRACTOR TO CUT EXISTING STL TUBE LOW FENCE AT B.O. ACCESSIBLE RAMP AND CREATE NEW ENTRANCE TO FIELD TO MATCH EXISTING.



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Alamogordo Park Restrooms

Balloon Fiesta Park
 Lavelle Rd.
 Alamogordo, New Mexico

Alameda Park Zoo
 1021 N. White Sands Blvd.
 Alamogordo, New Mexico

REVISION	DATE
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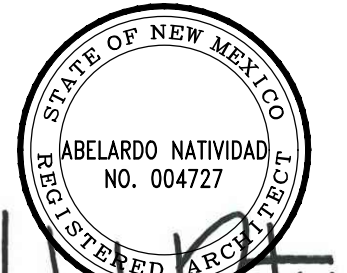
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BALLOON PARK SITE PLAN

AS100



BALLOON PARK SITE PLAN 1/AS100
 1" = 50'-0"



04.15.21

Alamogordo Park Restrooms

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION	DATE

Project no: 21.16
Date: April 2021
Sheet:

ZOO
SITE PLAN

AS101

GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON PLANS AND EXISTING SITE. THE ARCHITECT SHALL BE NOTIFIED OF CONFLICTS OR VARIATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE ARCHITECT PRODUCING THESE PLANS WILL NOT BE RESPONSIBLE FOR FIELD CHANGES AND DECISIONS UNLESS NOTIFIED IN WRITING OF CHANGES AND THEN ONLY BY WRITTEN APPROVAL BY THE ARCHITECT.
- ALL SCALE PLAN DIMENSIONS ARE TO NOMINAL FACE OF STUD OR FACE OF MASONRY UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL NOT SCALE DRAWINGS. IN THE EVENT OF OMISSION OF DIMENSIONS THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO WILL LEAVE THE CONTRACTOR SOLELY RESPONSIBLE FOR ANY DISCREPANCIES, CORRECTIONS, ETC., RESULTING FROM THE SAME.
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- ANY AND ALL ITEMS DAMAGED DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR TO A LIKE NEW CONDITION AT HIS EXPENSE.
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- THERE SHALL BE LITTLE IF NO INTERRUPTION TO THE ADJACENT PROPERTIES DURING THE COURSE OF CONSTRUCTION. UNAVOIDABLE INTERRUPTIONS IN SERVICES SHALL BE DISCUSSED, AGREED UPON AND SCHEDULED WITH THE CITY OF ALAMOGORDO.
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- THE CONTRACTOR SHALL PROVIDE ALL BARRICADES, FENCES, COVERED WALKS, PLANKING, FENCES LIGHTING, BRACING, SHORING, WARNING SIGNS, GUARDS, ETC. AS REQUIRED FOR PROTECTION OF WORKMEN, THE PUBLIC, AND ADJOINING PROPERTIES.
- ALL WALLS AT RESTROOMS AND JANITOR CLOSETS SHALL BE INSTALLED UP TO DECK.



ALAMEDA PARK ZOO SITE PLAN

1
AS100
1" = 40'-0"

GENERAL NOTES :

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK.
- DETAILS ON THESE DRAWINGS ARE TYPICAL FOR AND APPLY TO SIMILAR PROJECT CONDITIONS REGARDLESS OF WHETHER OR NOT THEY ARE SPECIFICALLY REFERENCED.
- VERIFY SLAB RECESSES AND LOCATION OF FLOOR DRAINS, IF ANY.
- COORDINATE WITH OTHER DRAWINGS FOR SLEEVES AND PENETRATIONS THROUGH SLAB AND ROOF.
- BUILDING STRUCTURE SHALL BE TEMPORARILY BRACED DURING CONSTRUCTION AGAINST LATERAL LOADS UNTIL PERMANENT BRACING SYSTEM IS IN PLACE.

CONCRETE NOTES :

- CONCRETE MIXES :

	MIN. STRENGTH, PSI	MAX. AGG. SIZE, IN	SLUMP, IN	MAX. W/C
FOOTINGS	3,000	1 1/2	4 - 6	-
SLABS, BEAMS	3,000	1 1/2	3 - 5	0.50
COMPOSITE SLAB	3,000	3/4	3 - 5	-

* CONCRETE STRENGTH AT 28 DAYS
- CONCRETE SHALL BE NORMAL WEIGHT UNLESS NOTED OTHERWISE.
- GRADE BEAM SIDES SHALL BE FORMED.
- EXPOSED SLAB EDGES SHALL BE CHAMFERED 3/4".
- CONSOLIDATE ALL CONCRETE WITH MECHANICAL VIBRATORS.

FOUNDATION NOTES :

- ENGINEERED FILL SHALL BE PLACED & COMPACTED IN 8-INCH LOOSE LIFTS COMPACTED TO MIN 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D 1557. EACH LIFT OF COMPACTED-ENGINEERED FILL SHALL BE TESTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS.
- FOOTINGS SHOULD BE PROTECTED FROM FREEZING IF EXPOSED TO FREEZING TEMPERATURES DURING CONSTRUCTION.
- FOOTING EXCAVATIONS SHOULD BE PROTECTED FROM WEATHER IF EXPOSED FOR MORE THAN ONE DAY.

REINFORCEMENT NOTES :

- REINFORCING STEEL SHALL CONFORM WITH ASTM A 615, GRADE 60.
- WELDABLE REINFORCING STEEL SHALL CONFORM TO ASTM A 706.
- UNLESS NOTED OTHERWISE, REINFORCING STEEL SHALL BE LAPPED 24 INCHES.
- TOP BARS SHALL BE SPLICED AT MID-SPAN AND BOTTOM BARS SHALL BE SPLICED AT SUPPORTS UNLESS NOTED OTHERWISE.
- MINIMUM CLEAR SPACING BETWEEN PARALLEL REINFORCING BARS SHALL BE 2 INCHES.
- PROVIDE CORNER BARS OF SAME SIZE AS LONGITUDINAL REINFORCEMENT AND LAP SPLICE 24 INCHES.
- REINFORCEMENT CLEAR CONCRETE COVER :

PLACED AGAINST EARTH	: 3"
SIDES OF GRADE BEAM	: 2"
PLACED AGAINST FORM	: 1 1/2"
TOP OF SLAB	: 1 1/2"
- SUPPORT REINFORCING STEEL WITH INTER SECTIONAL CHAIRS MANUFACTURED WITH CONTINUOUS RUNNERS OR SAND PLATES.

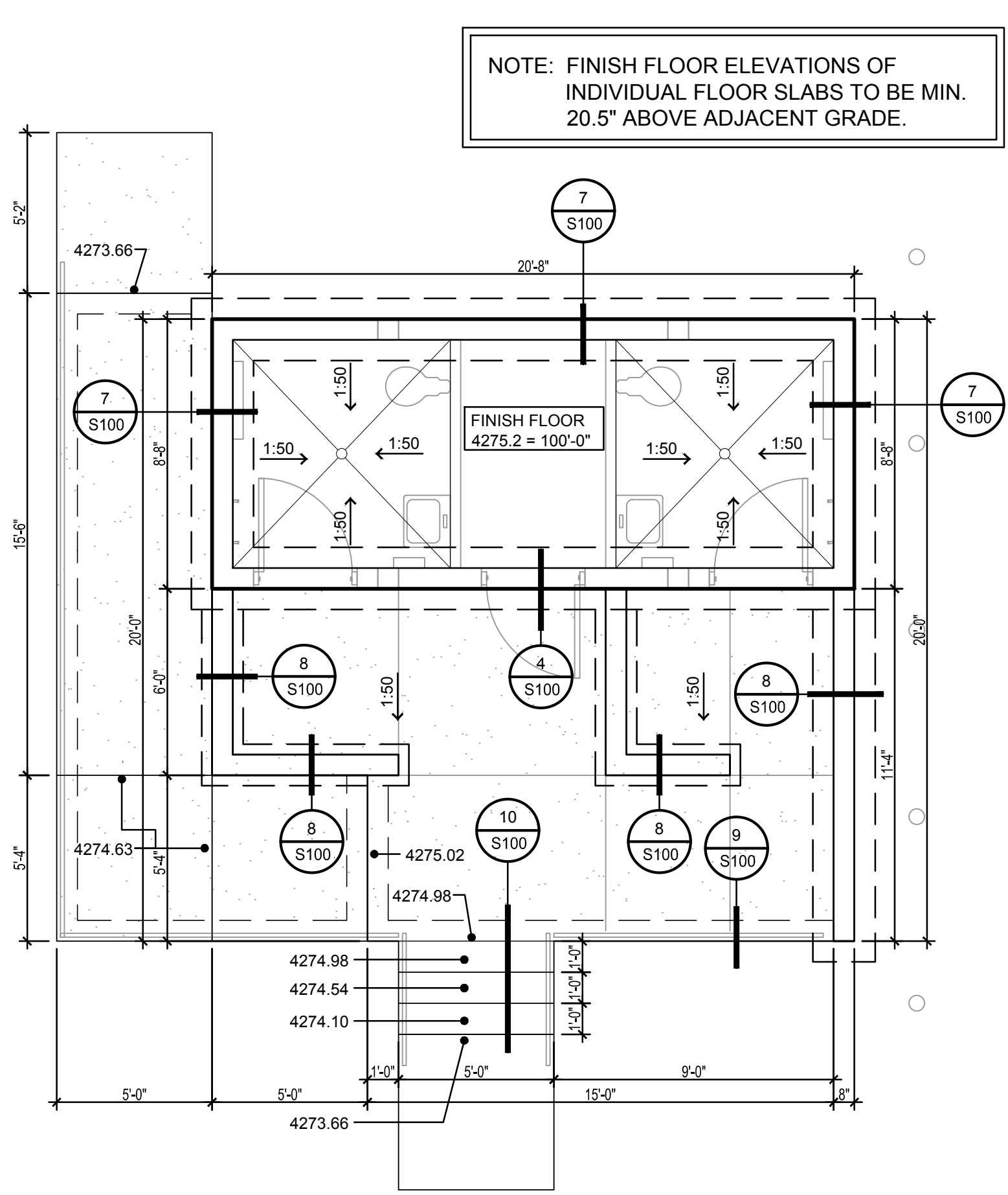
LEGEND :

- C.J. : CONTROL JOINT
- F.F. ELEV. : FINISHED FLOOR ELEVATION
- J.B. EL. : JOIST BEARING ELEVATION
- SIM. : SIMILAR
- T.O.B. : TOP OF BEAM
- T.O.C. : TOP OF COLUMN
- T.O.F. : TOP OF FOOTING
- T.O.P. : TOP OF PILASTER/PEDESTAL
- T.O.S. : TOP OF STEEL
- T.O.W. : TOP OF WALL
- TYP. : TYPICAL
- H.S. : HIGH STRENGTH OR HEADED STUD
- E.J. : WALL EXPANSION JOINT
- B.O.B. : BOTTOM OF BEAM

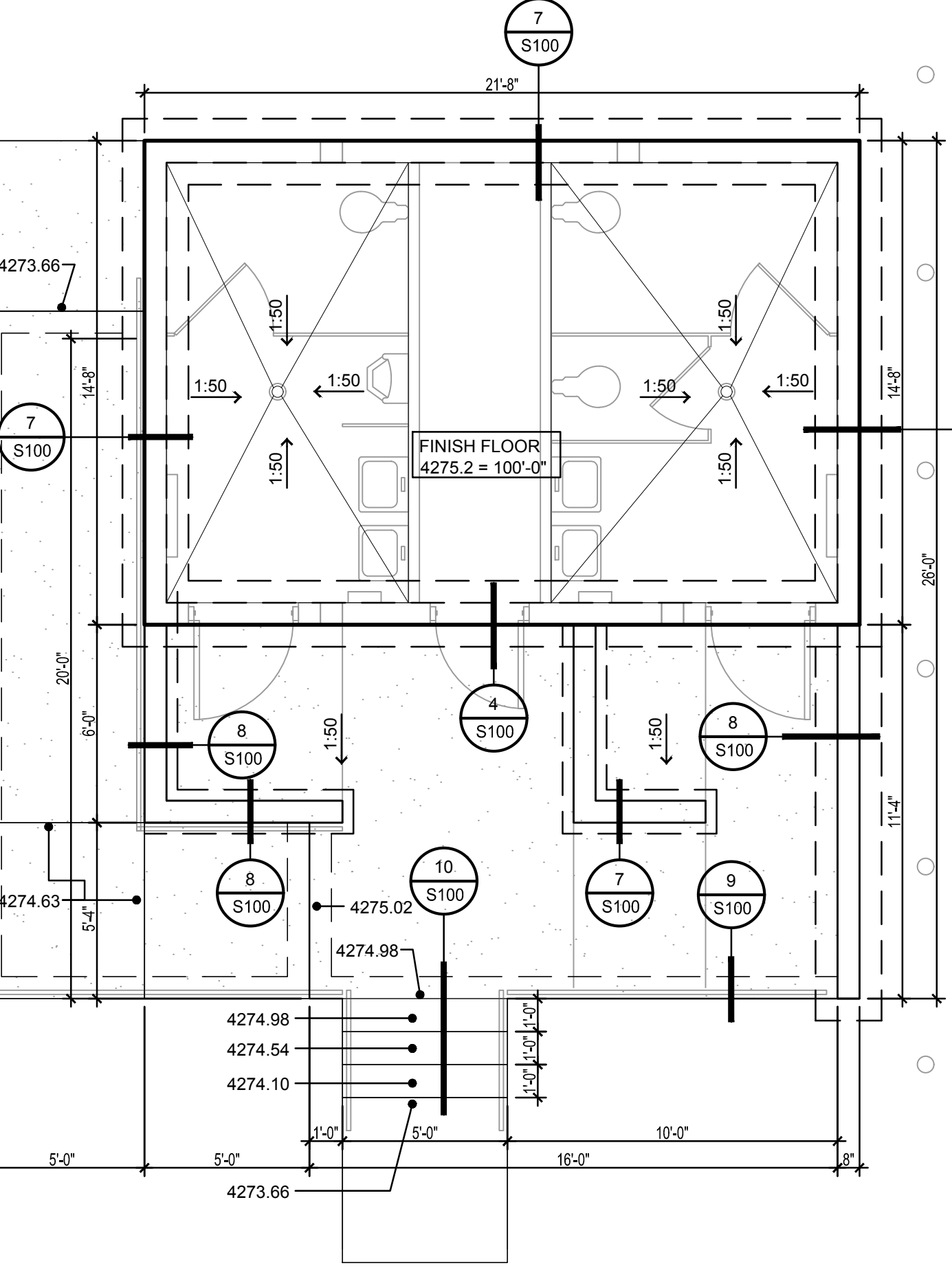
CONCRETE MASONRY NOTES :

- CONCRETE MASONRY UNITS, EXCEPT FOR THOSE USED AS BUILDING VENEER, SHALL BE HOLLOW, LOAD-BEARING, TYPE N, CONFORMING TO ASTM C 90.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR CONCRETE MASONRY UNITS USED FOR BUILDING VENEER.
- MASONRY DESIGN STRENGTH, F_m, SHALL BE 1,500 PSI.
- REINFORCE CONCRETE MASONRY WALLS AS SHOWN IN DETAILS IN THESE DRAWINGS. IN ADDITION, PROVIDE 1-#5 VERTICAL AT WALL CORNERS, INTERSECTIONS, END OF WALLS AND ADJACENT TO OPENINGS.
- MORTAR SHALL HAVE 28-DAY COMPRESSIVE STRENGTH OF 1,800 PSI.
- FILL ALL CELLS CONTAINING REINFORCEMENT AND THOSE BELOW FINISHED FLOOR WITH GROUT. GROUT SHALL HAVE 28-DAY STRENGTH OF 2,500 PSI.
- PROVIDE 8-INCH BOND BEAMS REINFORCED WITH 2-#4 @ 6" O.C., MAXIMUM. BOND BEAMS SHALL BE DISCONTINUOUS AT WALL CONTROL JOINTS, EXCEPT AT THE ROOF ELEVATION WHERE IT SHALL BE CONTINUOUS.
- CMU LINTELS SHALL BEAR ON JAMBS THE SAME WIDTH AS THE DEPTH OF LINTEL. REINFORCE EACH CELL W/1-#5 VERTICAL & GROUT ALL CELLS.
- REBARS SHALL BE CHAIRED AND BRACED PRIOR TO GROUT BEING PLACED.
- GROUT SHALL HAVE FLUIDITY TO ASSURE FILLING OF ALL CELLS INTENDED TO BE FILLED.

NOTE: FINISH FLOOR ELEVATIONS OF INDIVIDUAL FLOOR SLABS TO BE MIN. 20.5" ABOVE ADJACENT GRADE.

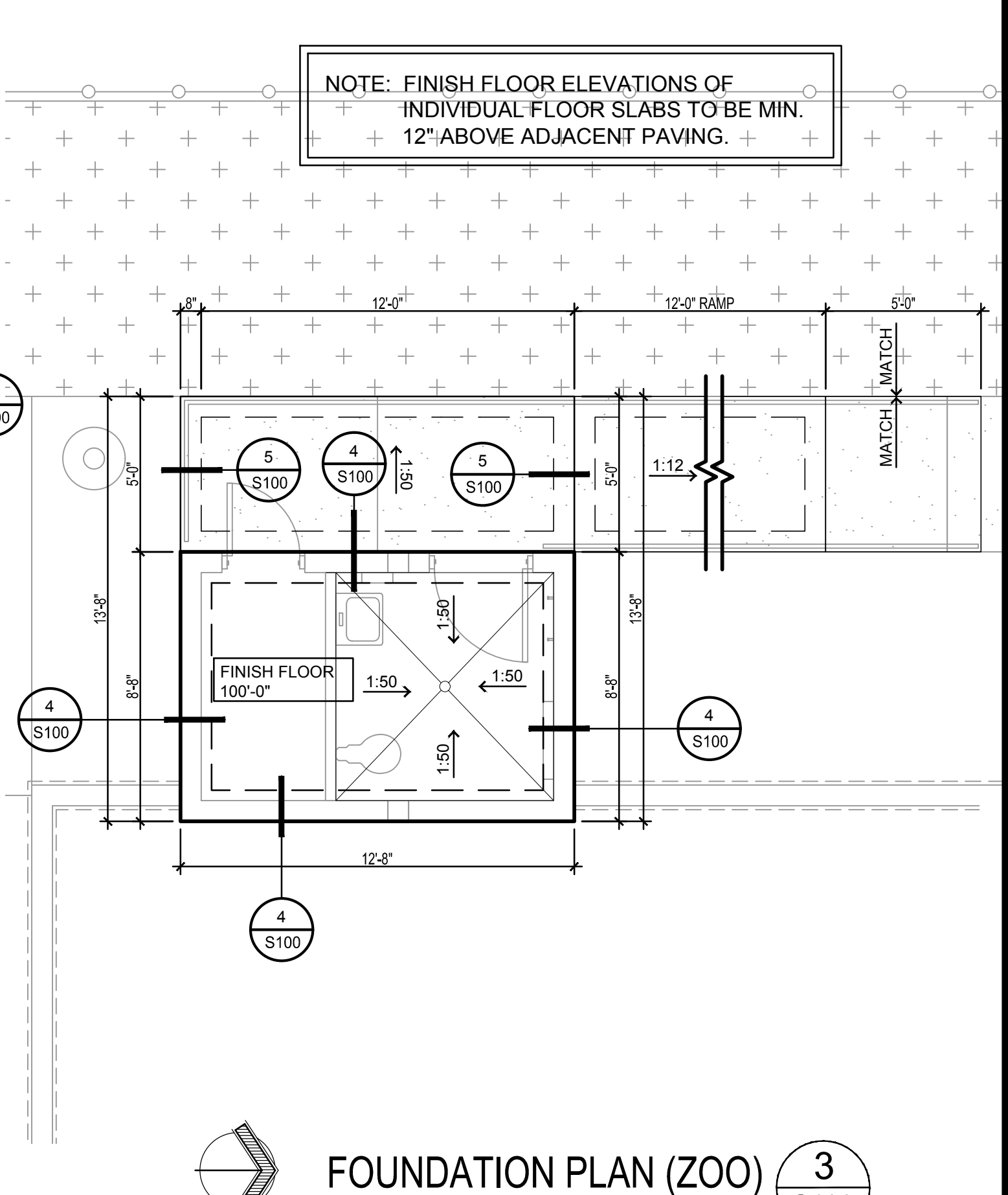


FOUNDATION PLAN (BALLOON PARK) 1
 BID LOT #1
 1/4" = 1'-0"
 S100

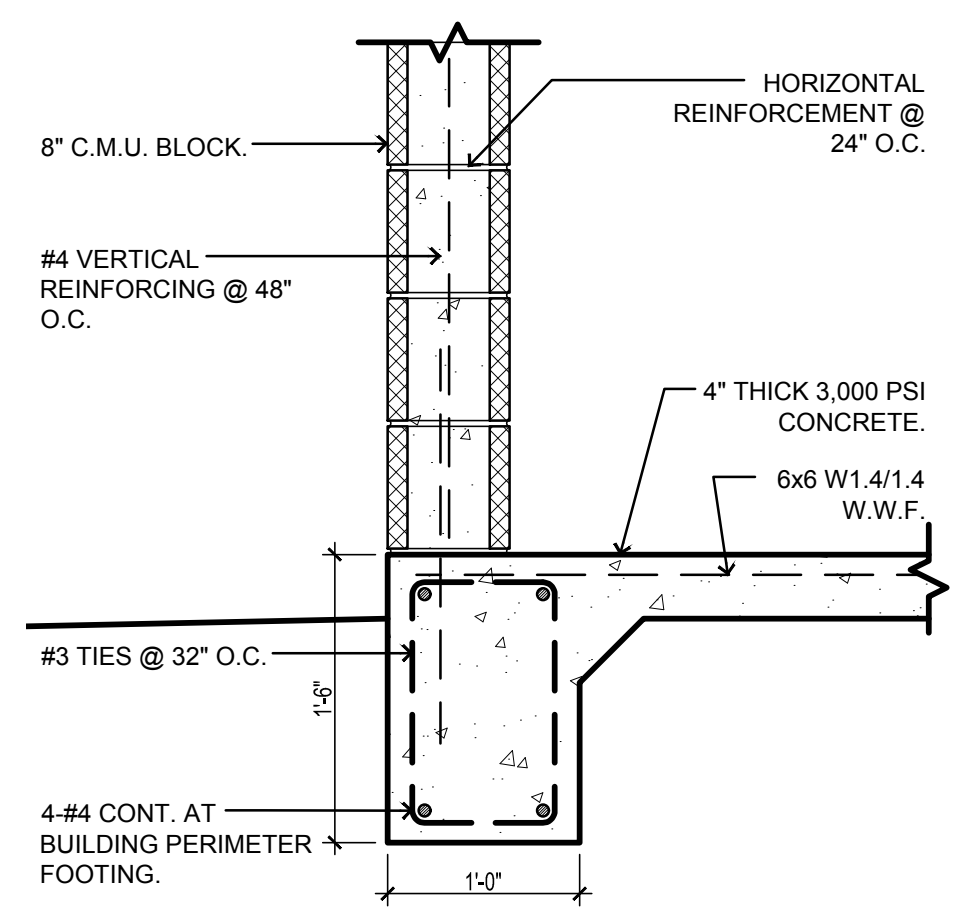


FOUNDATION PLAN (BALLOON PARK) 2
 BID LOT #2 (Alternate to Bid Lot #1)
 1/4" = 1'-0"
 S100

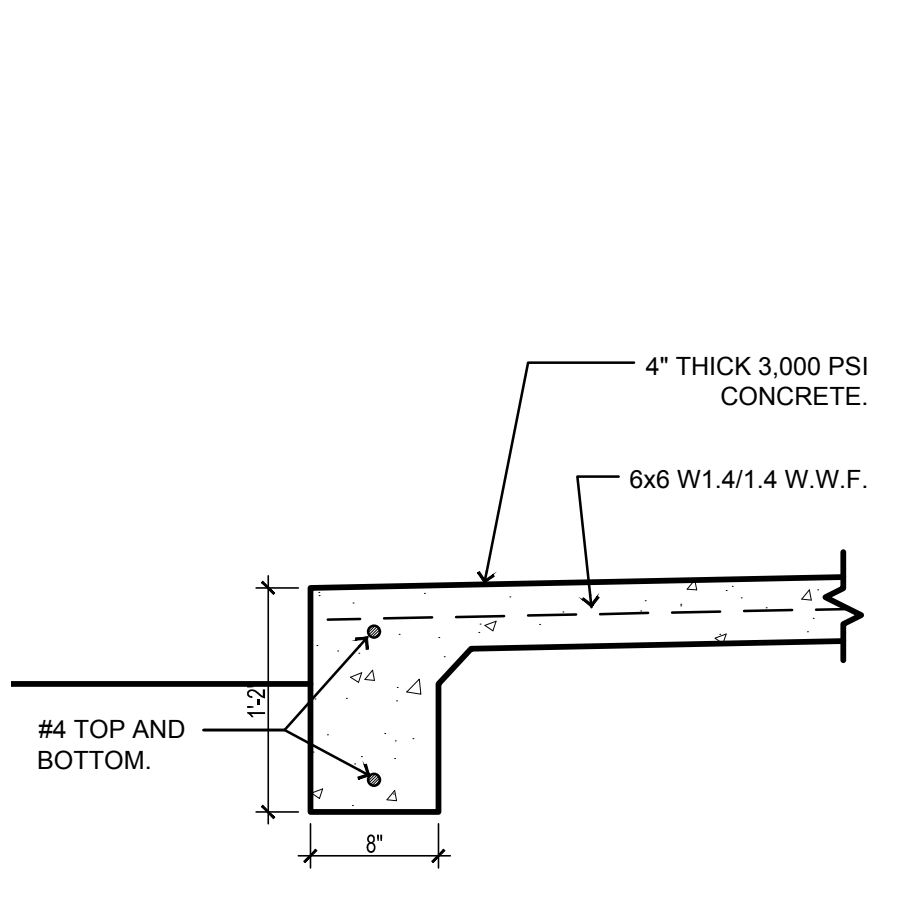
NOTE: FINISH FLOOR ELEVATIONS OF INDIVIDUAL FLOOR SLABS TO BE MIN. 12" ABOVE ADJACENT PAVING.



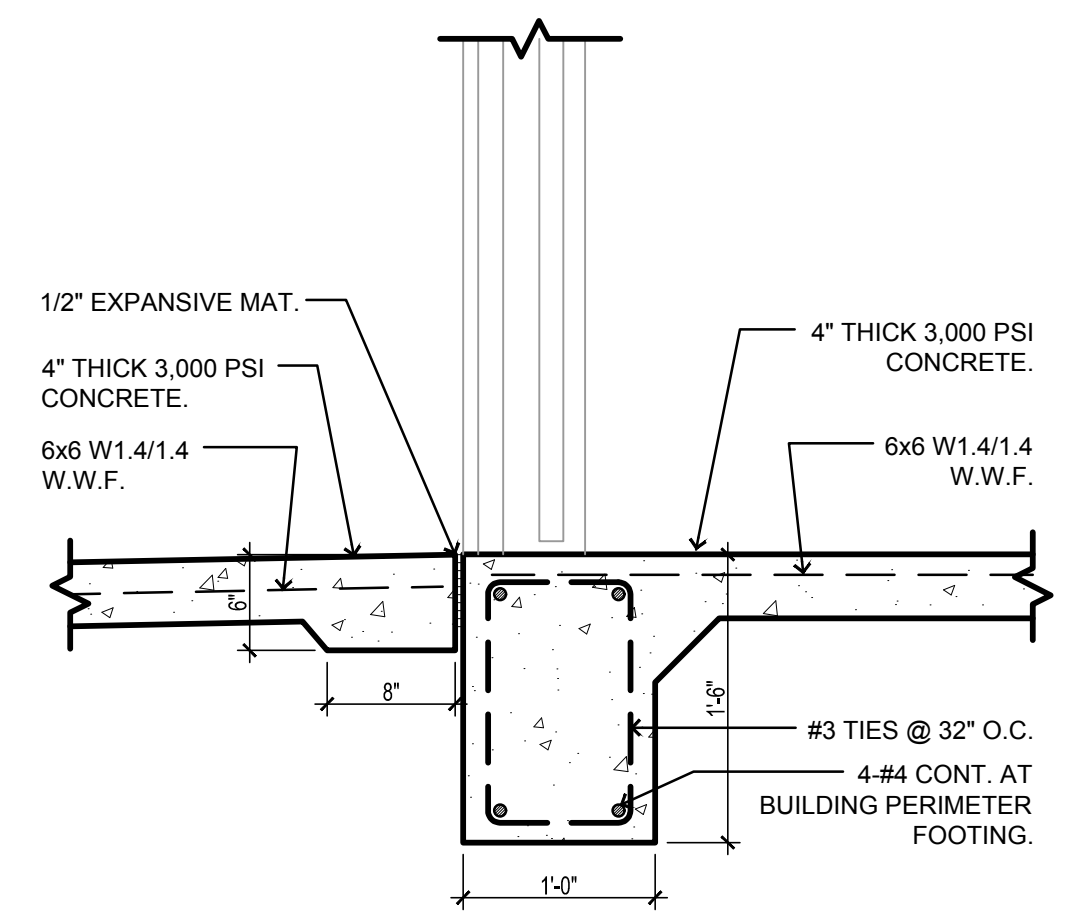
FOUNDATION PLAN (ZOO) 3
 BID LOT #3
 1/4" = 1'-0"
 S100



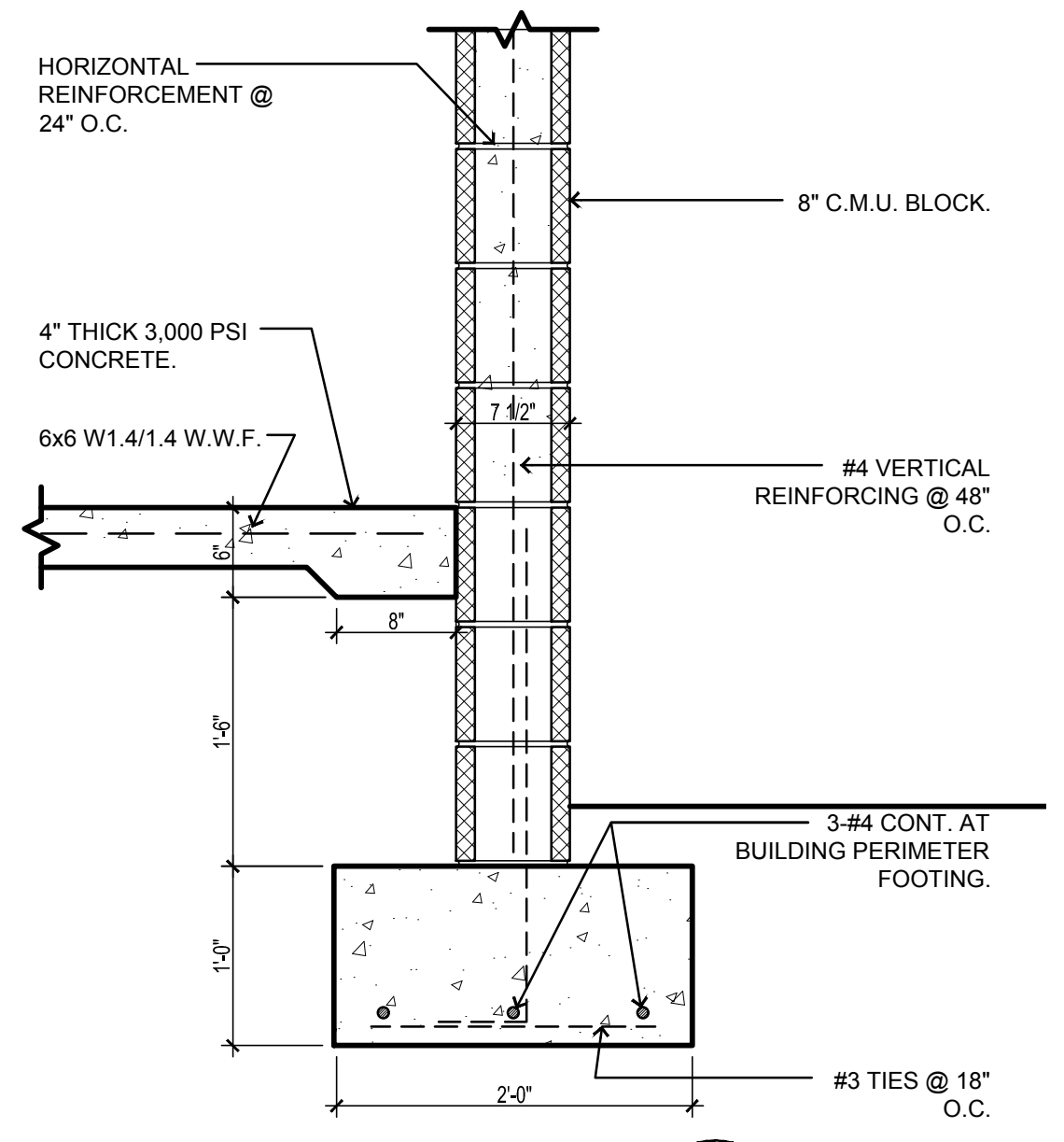
FOOTING DETAIL 4
 1" = 1'-0"
 S100



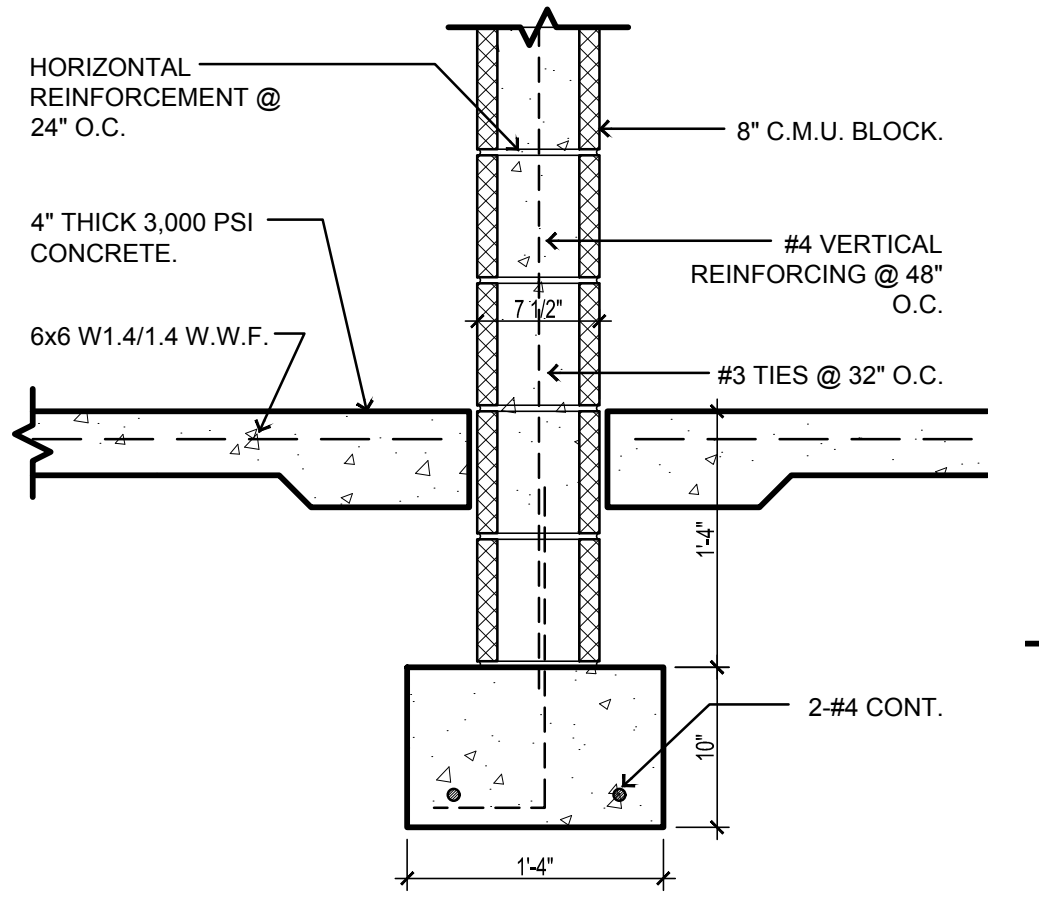
FOOTING DETAIL 5
 1" = 1'-0"
 S100



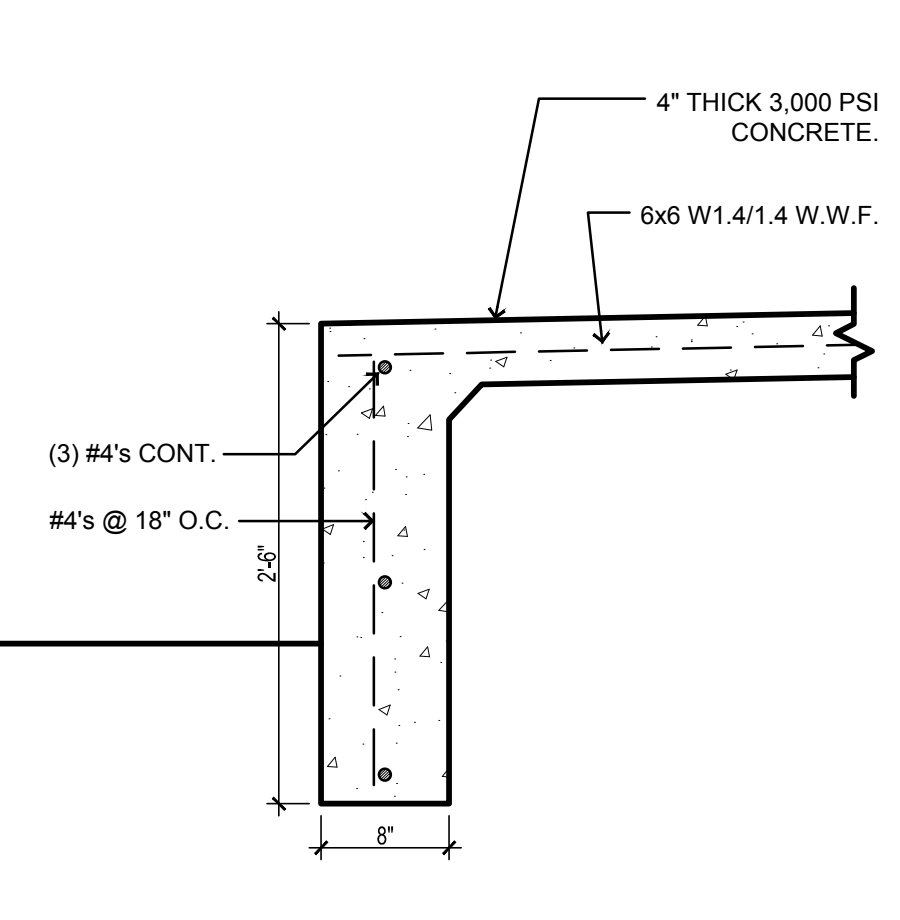
FOOTING DETAIL 6
 1" = 1'-0"
 S100



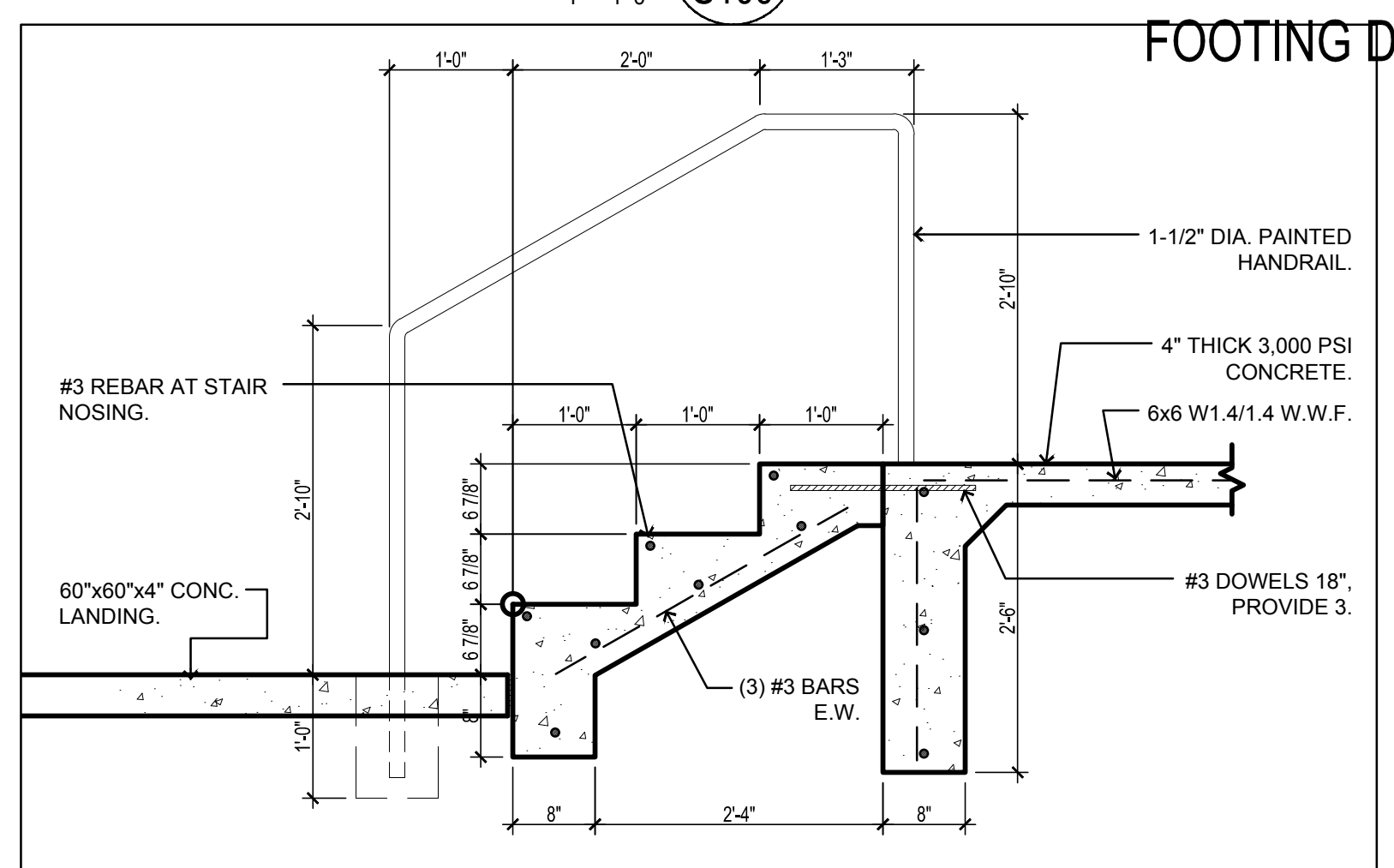
FOOTING DETAIL 7
 1" = 1'-0"
 S100



FOOTING DETAIL 8
 1" = 1'-0"
 S100



FOOTING DETAIL 9
 1" = 1'-0"
 S100



STAIR DETAIL 10
 1" = 1'-0"
 S100



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**Alamogordo
 Park Restrooms**

Balloon Fiesta Park
 Lavelle Rd.
 Alamogordo, New Mexico

Alameda Park Zoo
 1021 N. White Sands Blvd.
 Alamogordo, New Mexico

REVISION	DATE

Project no: 21.16
 Date: April 2021
 Sheet:

**FOUNDATION
 PLANS AND
 DETAILS
 S100**

Date: Sep 15, 2021 - 4:30pm User: Station 5
 Drawing File: K:\2021 Projects\2116 Alamogordo Restroom Projects\DWG\Sheets\2116-S100.dwg
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 Layout Name: S100



04.15.21

Alamogordo Park Restrooms

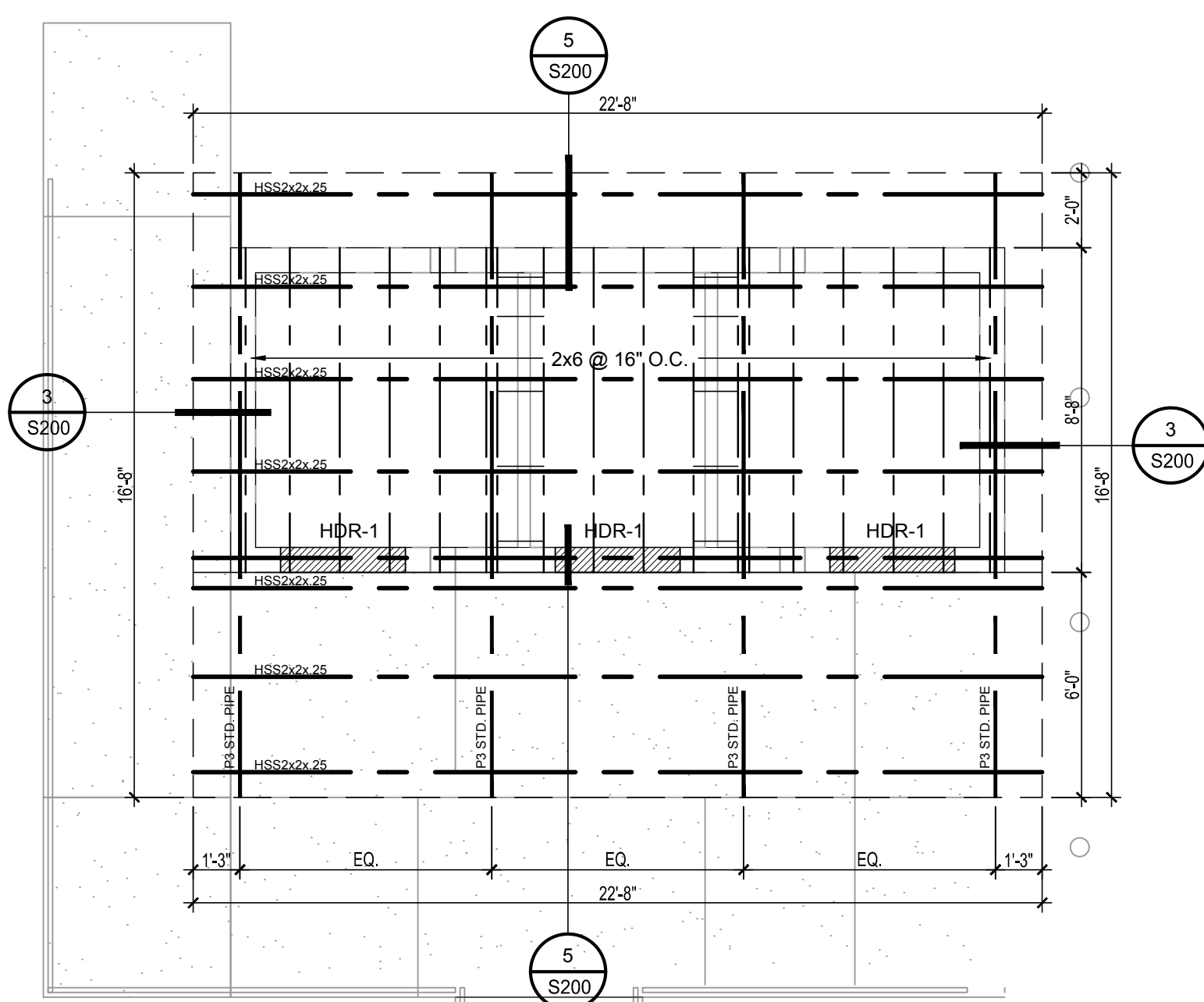
Balloon Fiesta Park
Lavelle Rd.
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Alameda Park Zoo
1021 N. White Sands Blvd.
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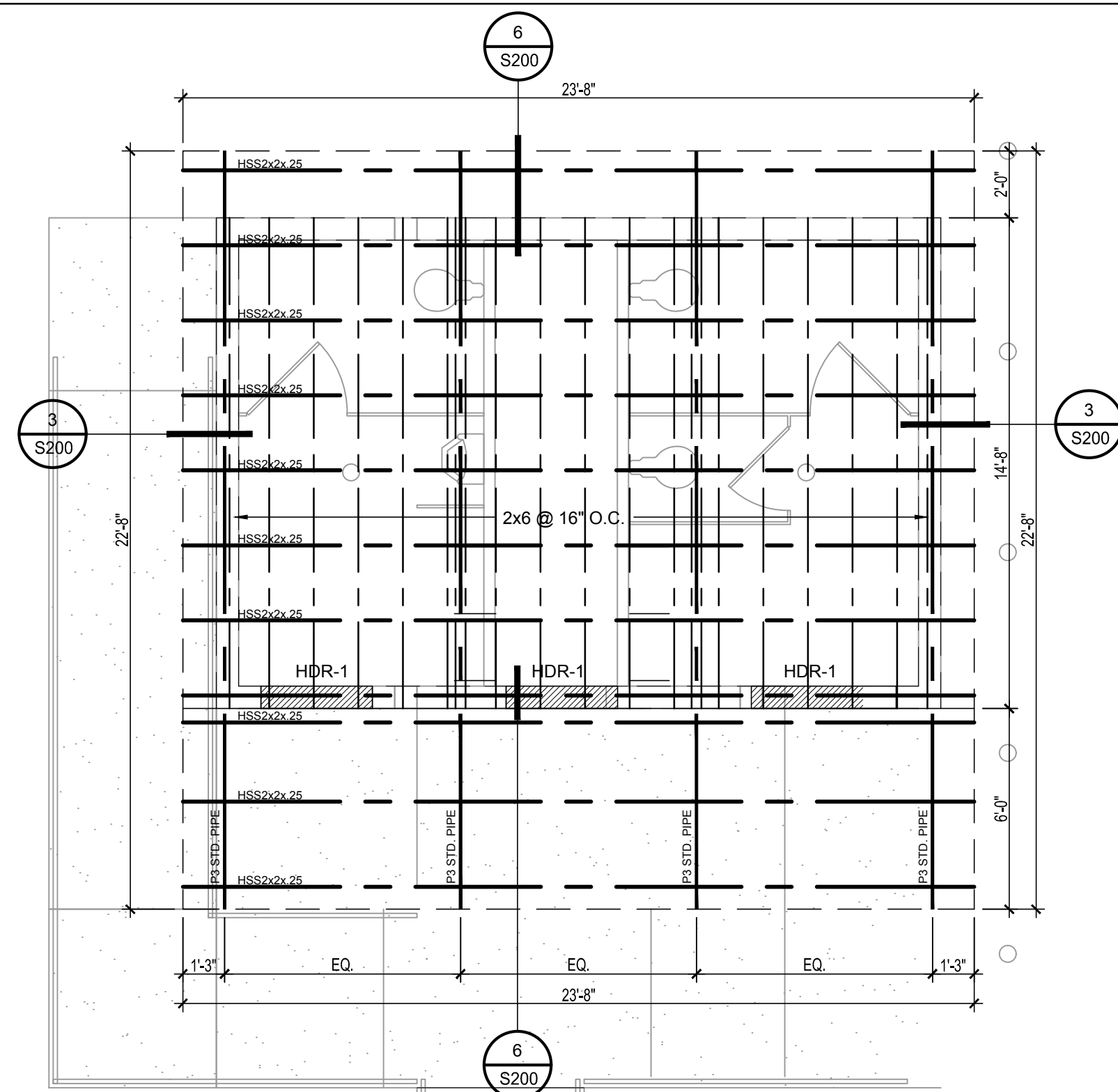
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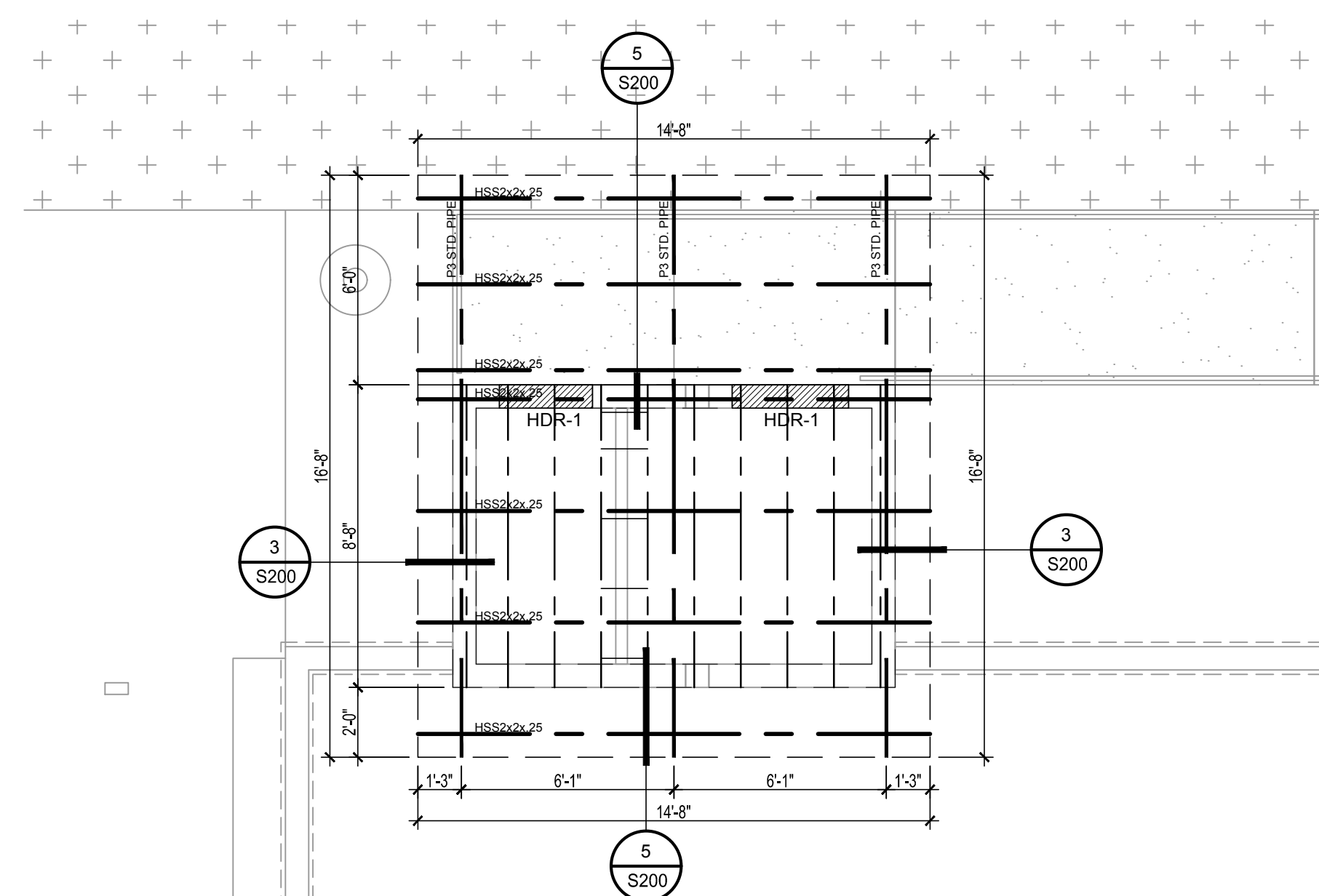
FRAMING PLANS AND DETAILS
S200



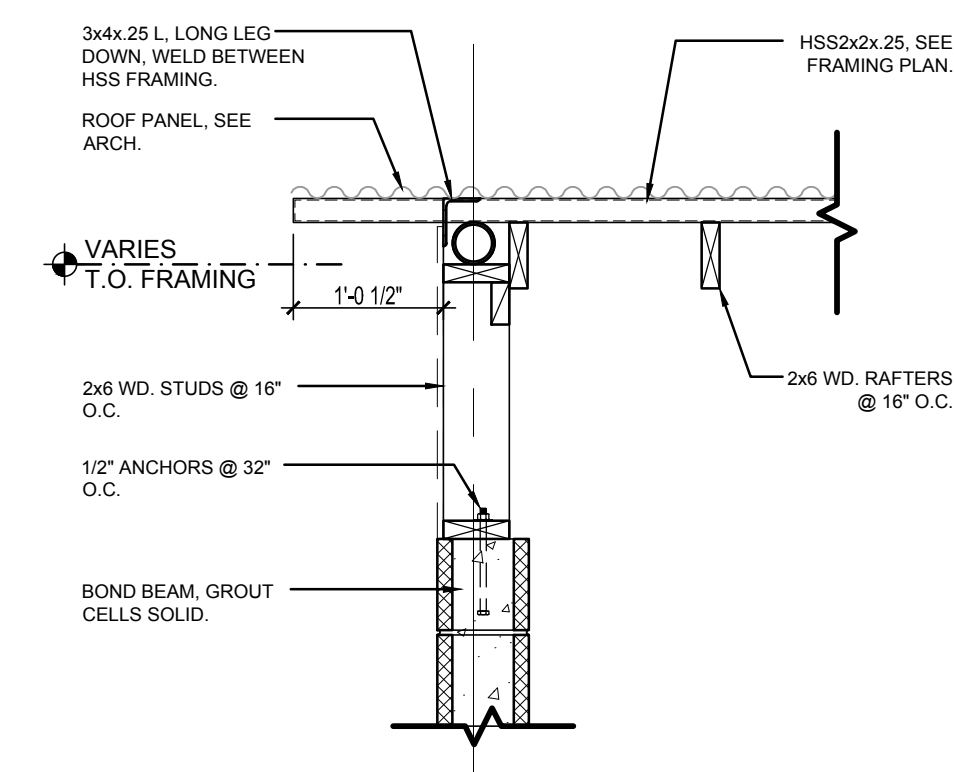
BALLOON PARK FRAMING PLAN 1
BID LOT #1
1/4" = 1'-0"
S200



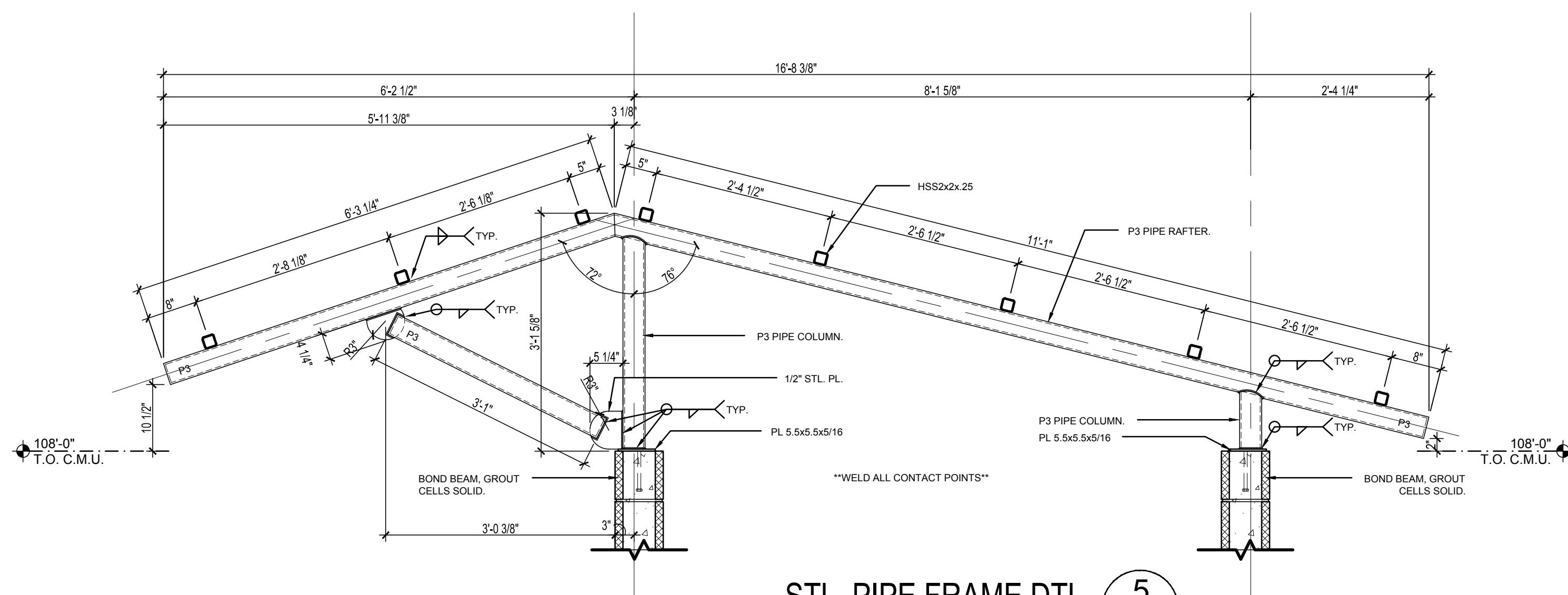
BALLOON PARK ALT. FRAMING PLAN 2
BID LOT #2 (Alternate to Bid Lot #1)
1/4" = 1'-0"
S200



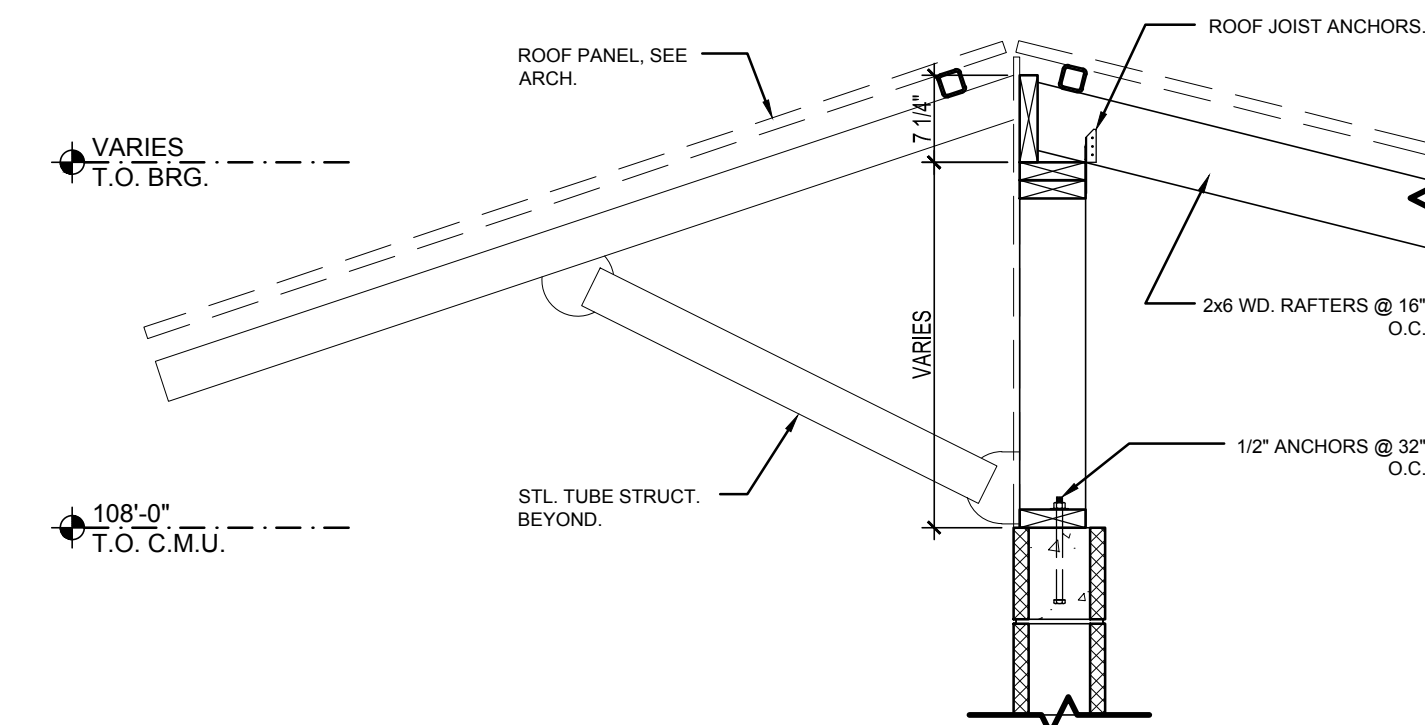
ZOO FRAMING PLAN 3
BID LOT #3
1/4" = 1'-0"
S200



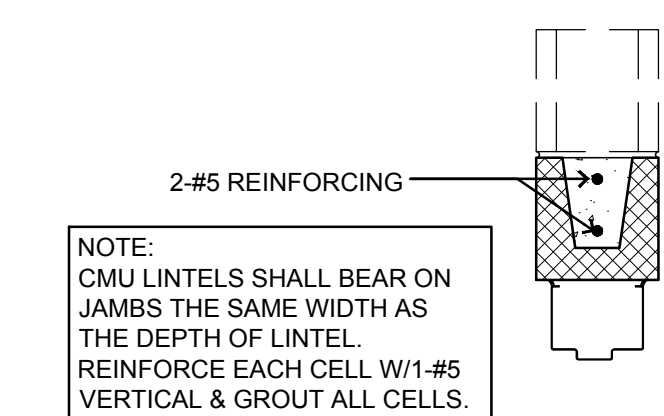
FRAMING DETAIL 4
3/4" = 1'-0"
S200



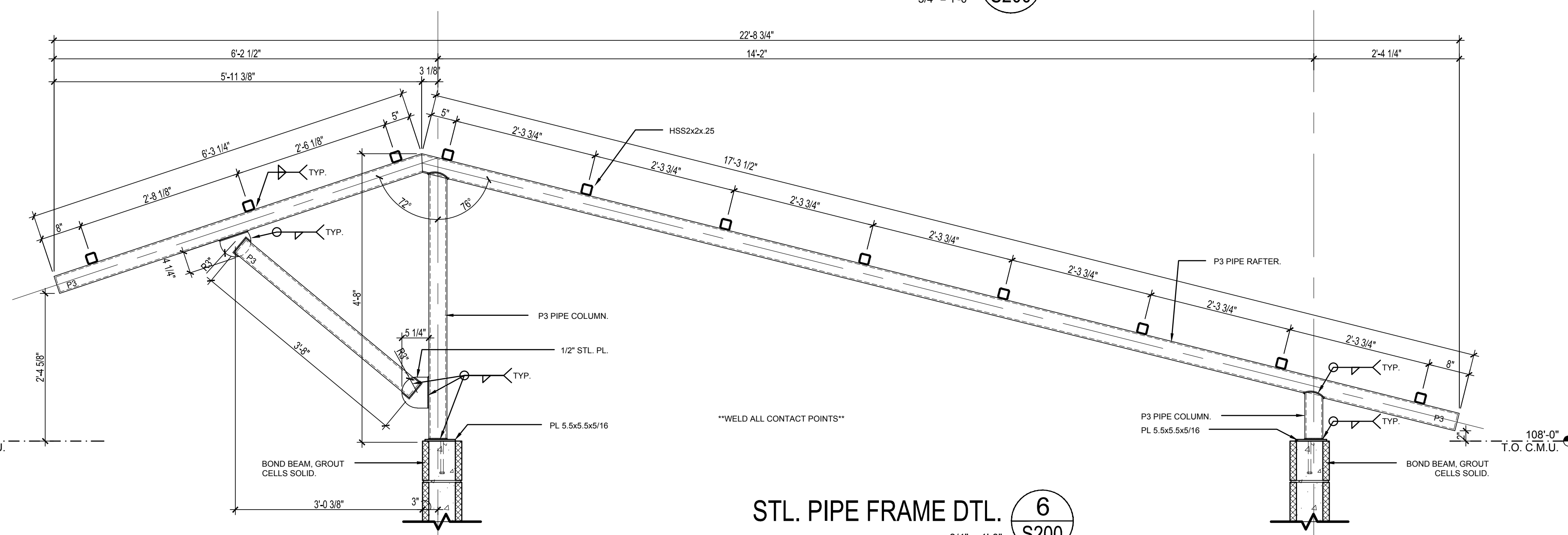
STL. PIPE FRAME DTL. 5
3/4" = 1'-0"
S200



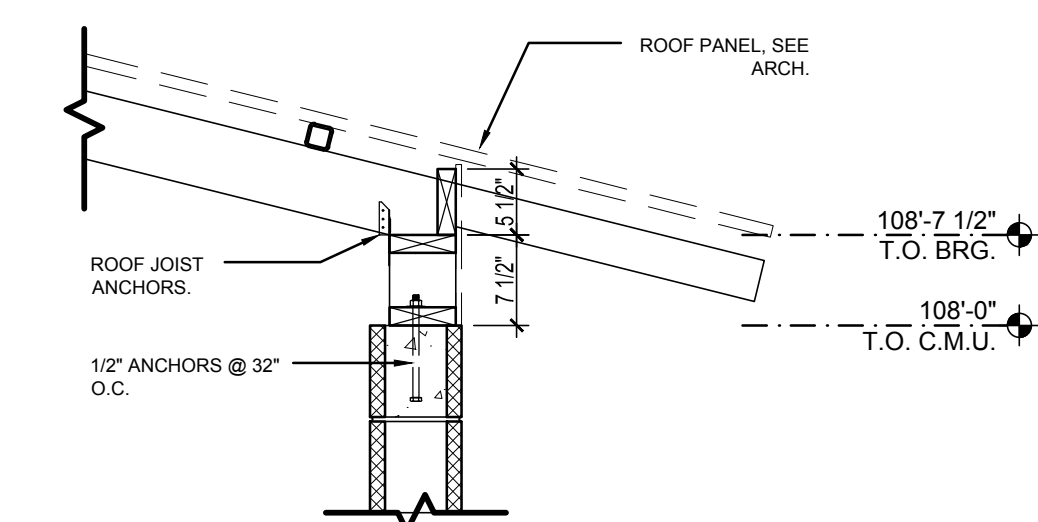
ROOF FRAMING 7
3/4" = 1'-0"
S200



C.M.U. HEADER A
1" = 1'-0"
S100



STL. PIPE FRAME DTL. 6
3/4" = 1'-0"
S200



ROOF FRAMING 8
3/4" = 1'-0"
S200

Date: Sep 15, 2021 - 4:30pm User: Station 5
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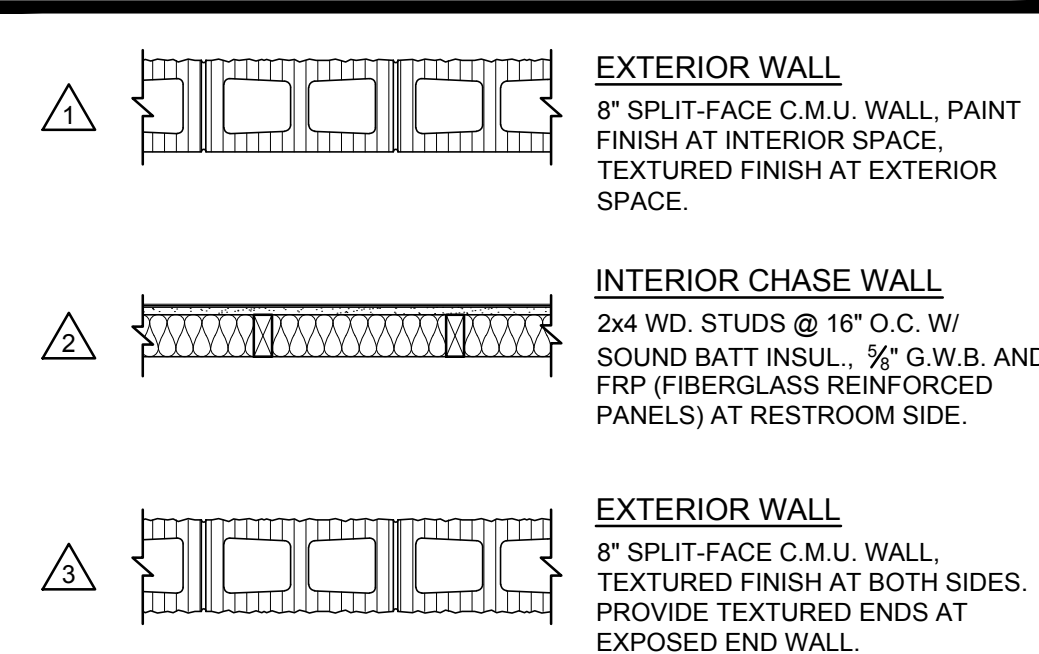
NOTE:
CMU LINTELS SHALL BEAR ON
JAMBS THE SAME WIDTH AS
THE DEPTH OF LINTEL.
REINFORCE EACH CELL W/1-#5
VERTICAL & GROUT ALL CELLS.



KEYED NOTES (FP)

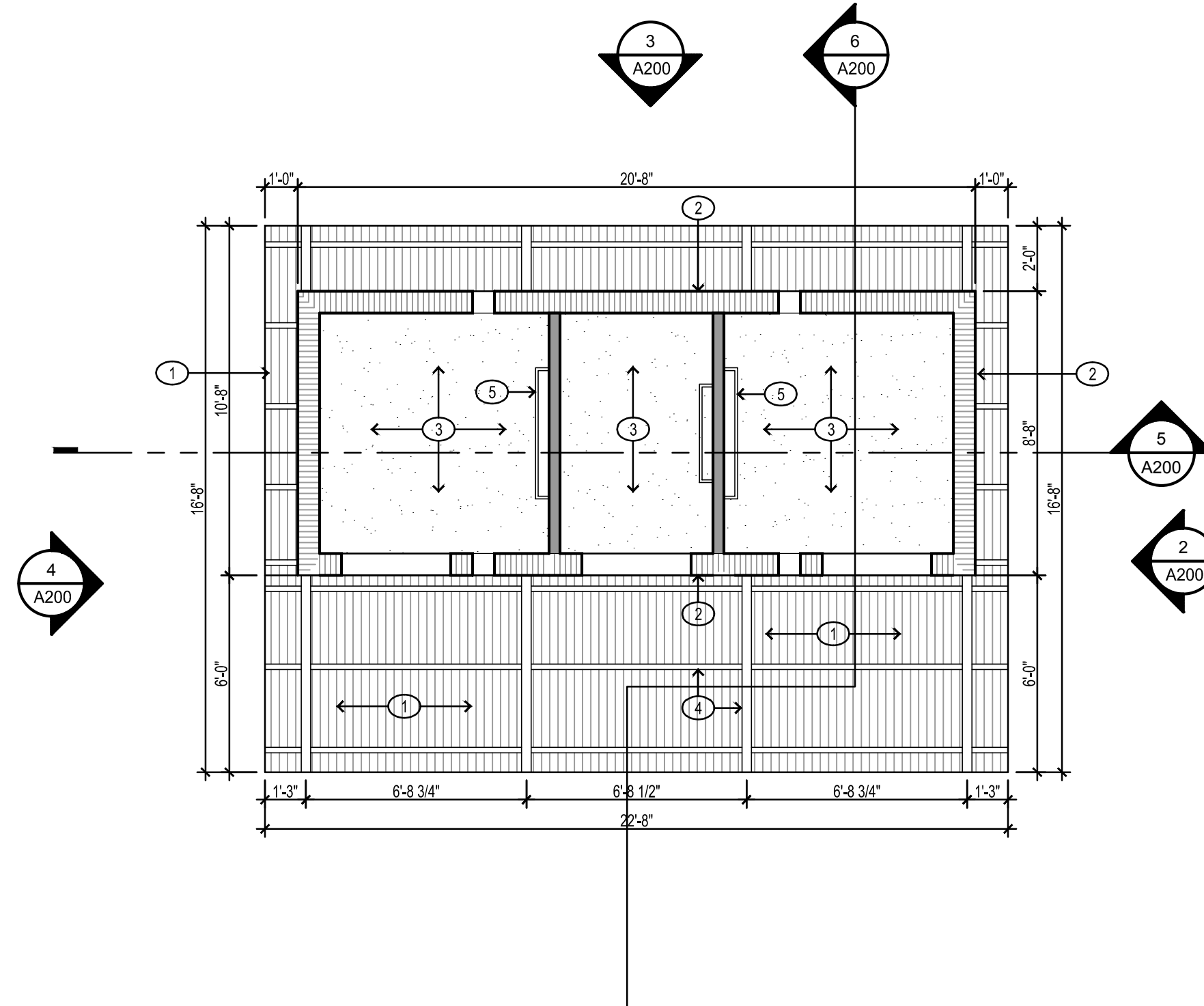
- HIDDEN LINE OF ROOF ABOVE. SEE ROOF PLAN.
- STAINLESS STEEL GRAB BARS; 42", 36", AND 18" VERTICAL.
- S.S. VANDAL RESISTANT PLUMBING FIXTURES. SEE PLUMBING PLANS.
- NOT USED.
- RECESSED SOAP DISPENSER, BOBRICK B-4063.
- TOILET TISSUE DISPENSER BOBRICK B-2888 OR EQUAL.
- WALL MOUNTED BABY CHANGING STATION, KOALA KARE KB110-SSWM SURFACE MOUNTED STAINLESS STEEL CHANGING STATION OR APPROVED EQUAL.
- NOT USED.
- 8x8x8 FROSTED GLASS BLOCK TO 7'-4" A.F.F.
- 4" THK. 3,000 PSI REINFORCED CONCRETE WALK.
- 2x2 PAINTED STL. TUBE RAILING, SEE EXTERIOR ELEVATIONS.
- PROVIDE TWO PEG STYLE COAT HANGERS BEHIND DOOR.
- TRASH CONTAINER OWNER PROVIDED.
- ELECTRIC HAND DRYER - VERDEDRI BY WORLD DRYER XLERATOR MODEL # XL-SB OR APPROVED EQUAL.
- LEAVE OUT 8x8 BLOCK OPENING AT BOTTOM OF WALL FOR DRAINAGE.
- 4" THICK REINFORCED CONC. RAMP, SLOPE 1:12 MAX.
- REINFORCED CONC. STAIRS.
- 5'-0"x5'-2" CONCRETE LANDING AT BOTTOM OF STAIRS/RAMP.
- 6" DIA. STL. TUBE PIPE BOLLARD, FILL WITH CONC., PRIME, AND PAINT. BOLLARDS TO BE SPACED AT 6'-0" O.C., TYP.

WALL TYPES

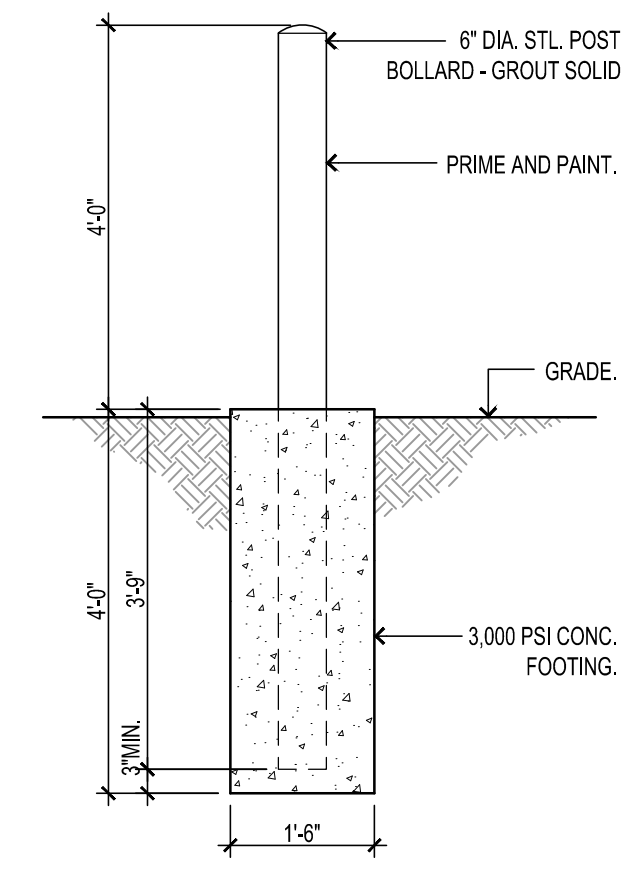


KEYED NOTES (RCP)

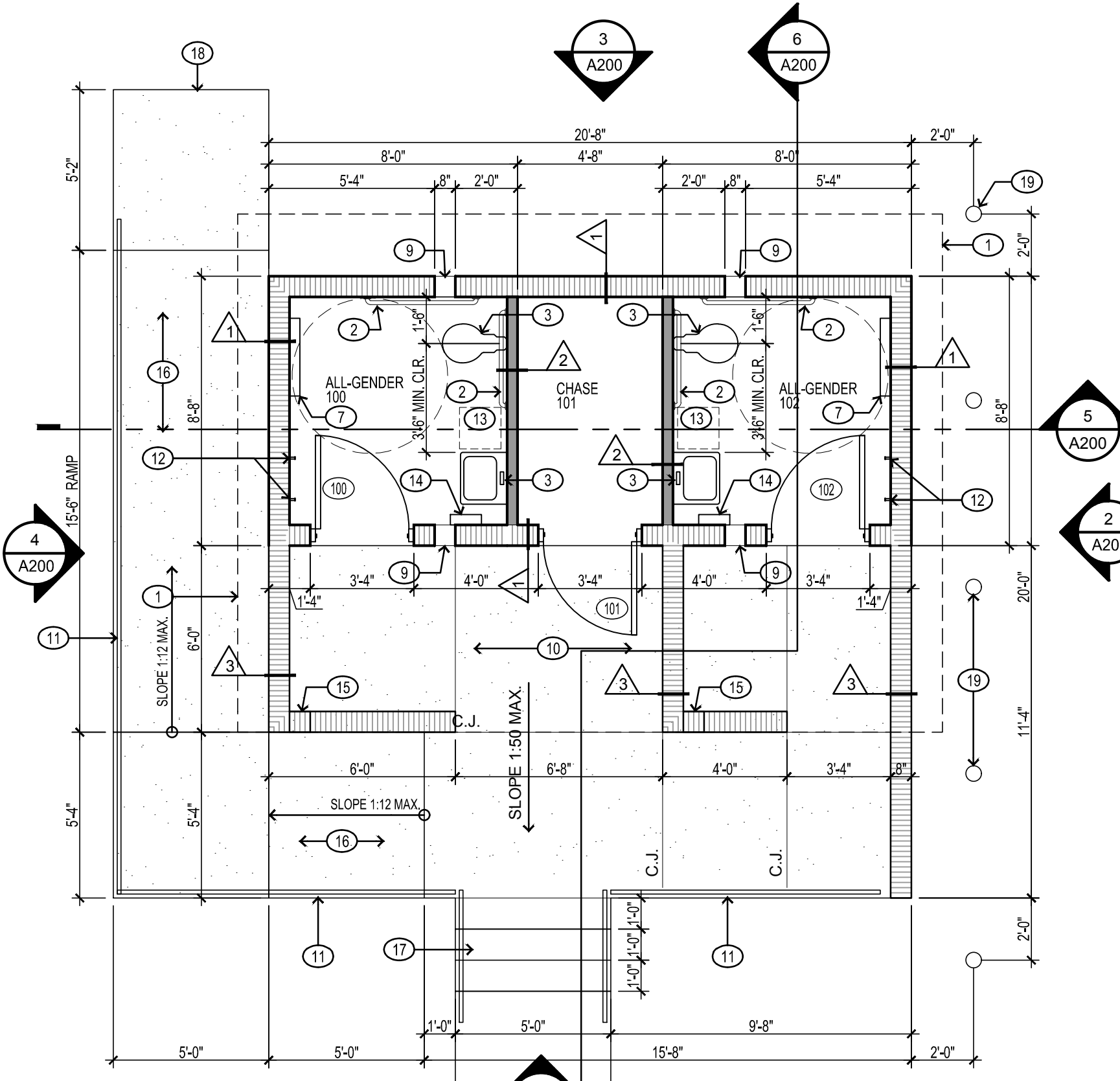
- EXPOSED UNDERSIDE OF METAL ROOF PANELS.
- PRE-FINISHED BREAK METAL TRIM, SEE BUILDING WALL SECTIONS.
- 5/8" GYP. BD.; TAPE, TEXTURE, AND PAINT.
- PAINTED STL. ROOF STRUCTURE, SEE WALL SECTIONS.
- WALL MOUNTED LED LIGHT FIXTURE, SEE ELECTRICAL LIGHTING PLAN.



REFLECTED CEILING PLAN 2
BALOON PARK 1/4" = 1'-0"
A100



BOLLARD DTL. 8
1/2" = 1'-0"
A100



FLOOR PLAN 1
BALOON PARK 1/4" = 1'-0"
A100

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLR. BSE.	WALLS					CLG. HT.	REMARKS	
			N	W	S	E	C			
100	ALL-GENDER	F1	-	W2	W1	W2	W2	C1	VARIES	SLOPED CEILING
101	CHASE	F1	-	-	-	-	-	C1	VARIES	SLOPED CEILING
102	ALL-GENDER	F1	-	W2	W2	W2	W1	C1	VARIES	SLOPED CEILING
103	ALL-GENDER	F1	-	W2	W1	W2	W2	C1	VARIES	SLOPED CEILING
104	CHASE	F1	-	-	-	-	-	C1	VARIES	SLOPED CEILING

* SEE RCP FOR CEILING DETAILS

FINISHES

FLOOR	BASE	WALL	CEILING
F1	SEALED CONCRETE	W1 5/8" GYP. WALL BD. W/ FULL HT. FRP. W2 PAINTED C.M.U. BLOCK	C1 5/8" GYP. BD.; TAPE, TEXTURE, AND PAINT.

DOOR SCHEDULE

DOOR NO.	WIDTH	HT.	THKNS.	TYPE	FRAME W X D	FRAME TYPE	DETAILS			REMARKS
							HEAD	JAMB	JAMB	
100	3'-0"	7'-0"	1-3/4"	D1	2'x5 3/4"	F1	5	5	5	KEYED ENTRY LATCH & DEADBOLT W/ USE INDICATOR
101	3'-0"	7'-0"	1-3/4"	D1	2'x5 3/4"	F1	5	5	5	STORAGE ROOM LOCKSET & DEADBOLT
102	3'-0"	7'-0"	1-3/4"	D1	2'x5 3/4"	F1	5	5	5	KEYED ENTRY LATCH & DEADBOLT W/ USE INDICATOR
103	3'-0"	7'-0"	1-3/4"	D1	2'x5 3/4"	F1	5	5	5	KEYED ENTRY LATCH & DEADBOLT W/ USE INDICATOR
104	2'-4"	7'-0"	1-3/4"	D2	2'x5 3/4"	F2	5	5	5	STORAGE ROOM LOCKSET & DEADBOLT

CONTRACTOR TO PROVIDE ALL REQUIRED HARDWARE FOR DOOR SYSTEMS TO MEET CITY OF ALAMOGORDO REQUIREMENTS. ALL LOCKS TO BE KEYPED TO BEST LOCK KEY SYSTEM.

ROOM SIGNS

CONTRACTOR TO PROVIDE ROOM SIGN ALUMINUM PLAQUES AS REQUIRED BY THE AMERICANS WITH DISABILITIES ACT.

CONTRACTOR SHALL PROVIDE 8"x8" ROOMS SIGNS TO READ:

- 2EA. - "ALL-GENDER RESTROOM" (WITH GRAPHICS)
- 1EA. - "PLUMBING CHASE"

SIGNAGE IS TO HAVE LETTERING AND BRAILLE SYMBOLS TO COMPLY WITH ADA. SIGNAGE PLAQUES ARE TO BE CONSTRUCTED OF CAST ALUMINUM. BASIS OF DESIGN TO BE GEMINI SIGNS CAST ALUMINUM PLAQUES OR APPROVED EQUAL. CONTRACTOR TO PROVIDE ALL MOUNTING HARDWARE.

H.M. DOORS & FRAMES

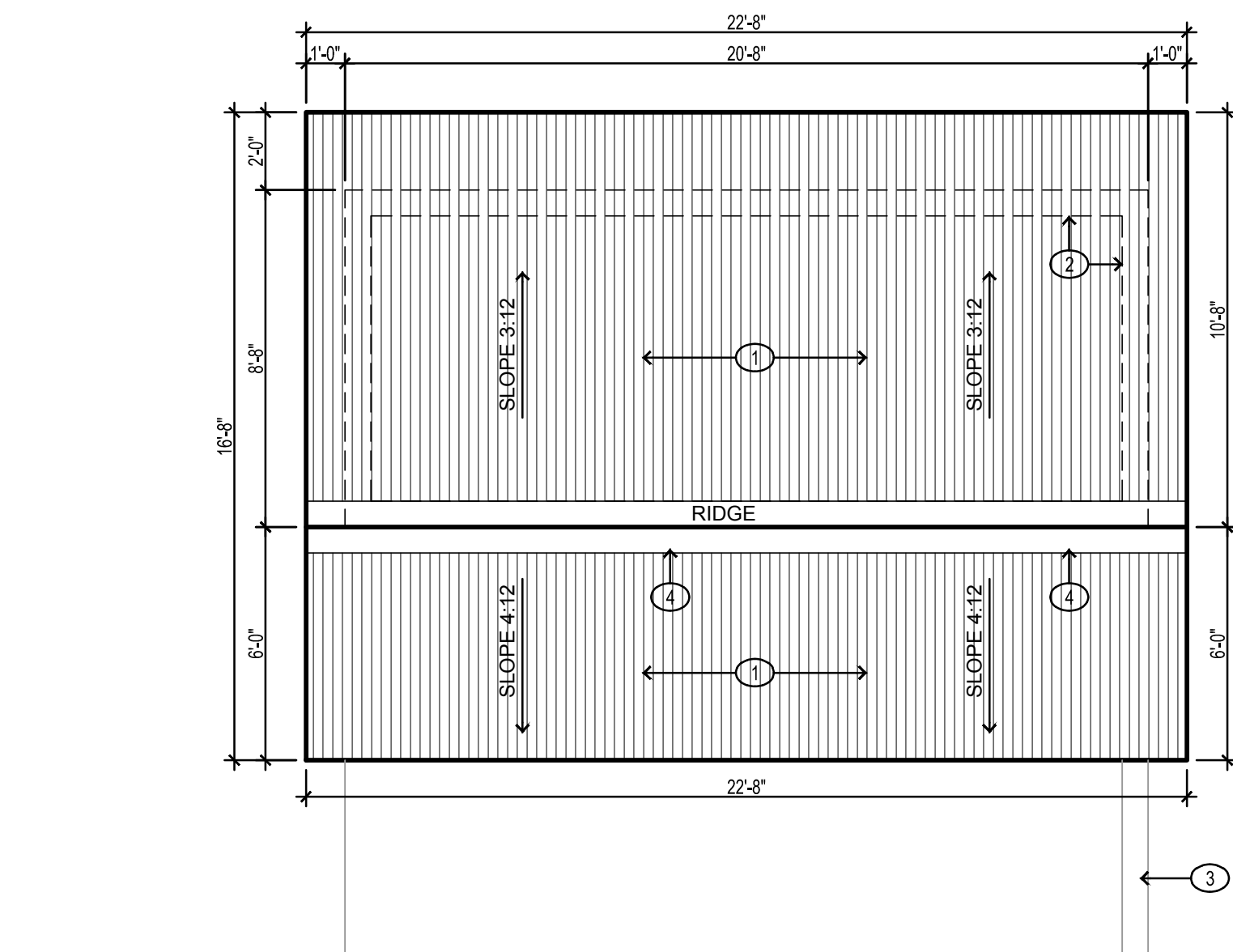
- 1.01 WELDED FRAMES
- A. EXTERIOR FRAMES: 16 GAGE, HOT DIPPED GALVANIZED (A60) MATERIAL, FACTORY PRIMED AND PAINTED.
 - B. 1.02 ACCESSORIES
 - A. WEATHER SEAL GASKETING
 - B. ANCHORS: ONE FLOOR ANCHOR PER JAMB WITH THREE ADJUSTABLE JAMB ANCHORS PER JAMB TO BE COMPATIBLE WITH WALL CONSTRUCTION.
- 1.03 FABRICATION
- A. WELDED DOOR FRAMES: FABRICATE FRAMES AS DIE CUT, FULLY WELDED UNITS.
 - 1. FABRICATE FRAMES WITH REQUIRED MORTISED HARDWARE REINFORCEMENT PLATES (MINIMUM 7 GAGE) WELDED IN PLACE IN DOORS WHICH CALL FOR MORTISE TYPE LOCKSETS. GALVANIZED REINFORCEMENT PLATES ARE REQUIRED FOR GALVANIZED FRAMES.
 - 2. REINFORCE FRAMES WIDER THAN 48 INCHES WITH ROLL FORMED STEEL CHANNELS FITTED TIGHTLY INTO FRAME HEAD, FLUSH WITH TOP.
 - 3. PREPARE FRAME FOR SILENCERS. PROVIDE THREE SINGLE SILENCERS FOR SINGLE DOORS ON STRIKE SIDE.
- 1.04 FINISH
- A. PRIMER: ZINC CHROMATE, BAKED ON, RUST INHIBITING TYPE (2 MIL THICKNESS PER COAT, TWO (2) COATS REQUIRED), THOROUGHLY CLEAN METAL SURFACES PRIOR TO APPLYING FINISH PRIMER PAINT.

HARDWARE

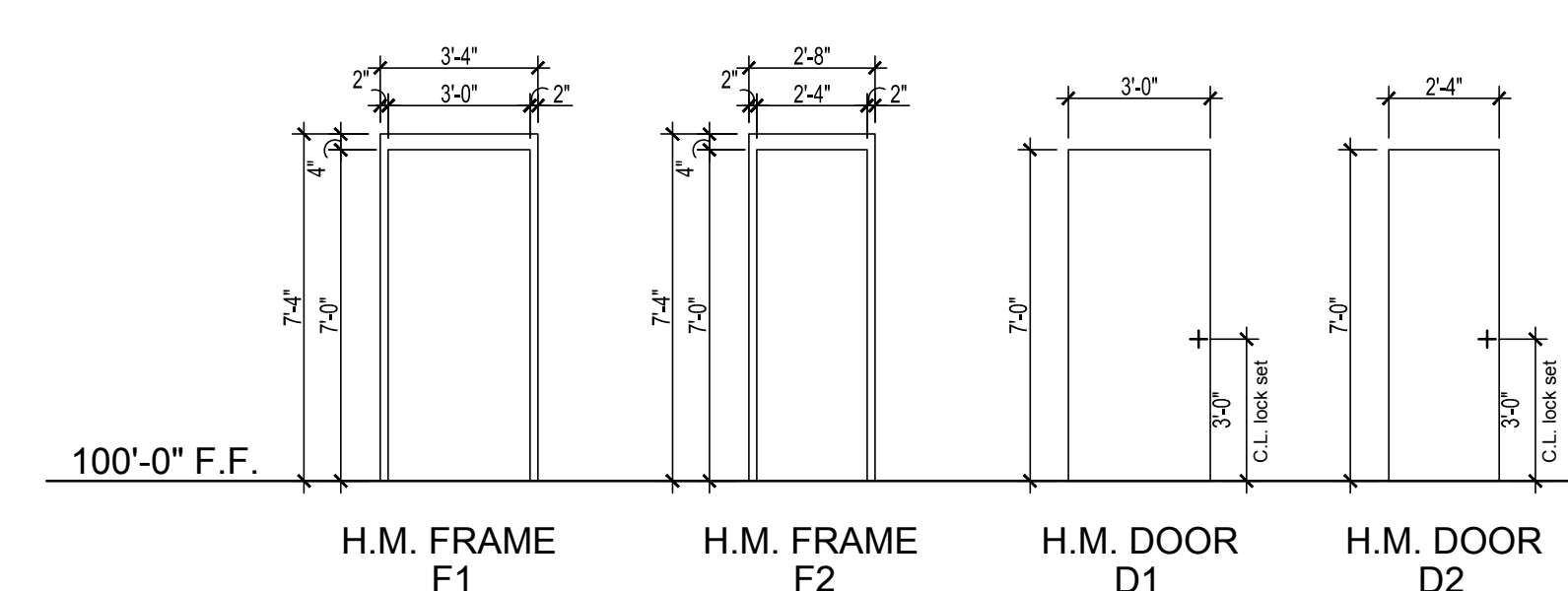
CONTRACTOR TO PROVIDE HINGES, CLOSER, AND PRIVACY/STORAGE LOCKS AS REQUIRED PER DOOR. ALL KEYPED DEVICES TO BE KEYPED TO BEST LOCK SYSTEM. CONTRACTOR TO PROVIDE LATCH HARDWARE WITH OCCUPANCY INDICATOR. *ALL LOCKS TO BE KEYPED TO BEST LOCK KEY SYSTEM*

KEYED NOTES (RP)

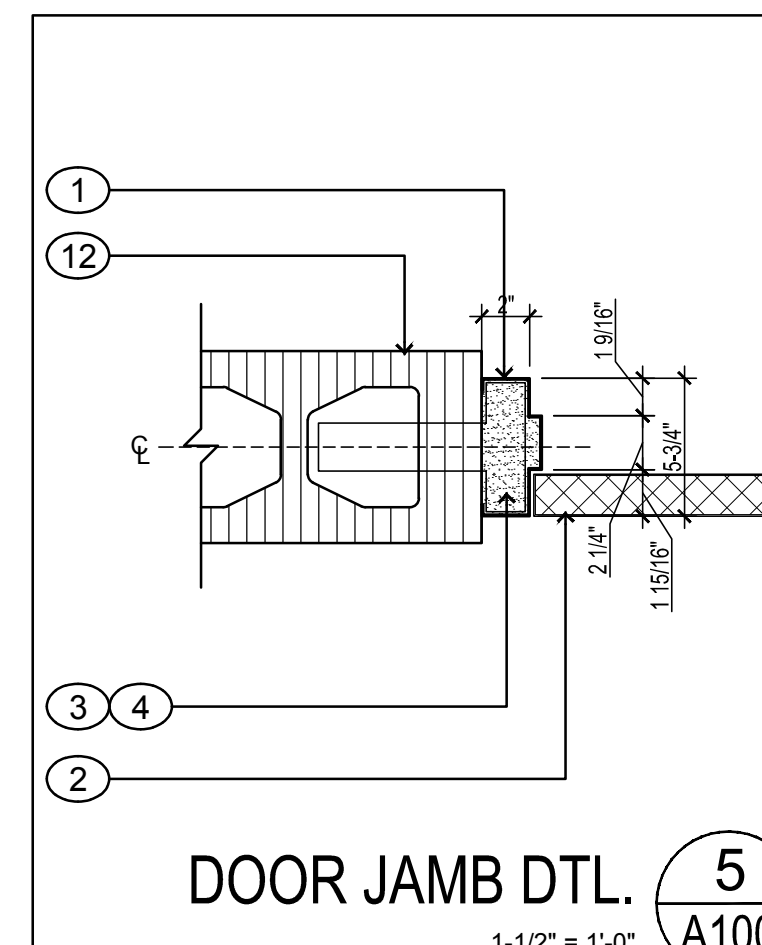
- 22 GA. CORRUGATED METAL ROOF PANEL SYSTEM (BERRIDGE S-DECK OR APPROVED EQUAL), PROVIDE ALL TRIM PIECES AND REQUIRED ACCESSORIES. COLOR TO BE ACRYLIC-COATED GALVALUME.
- HIDDEN LINE OF WALL BELOW.
- LOW WALL BELOW.
- RIDGE CAP, PROVIDE CLOSURE STRIP.



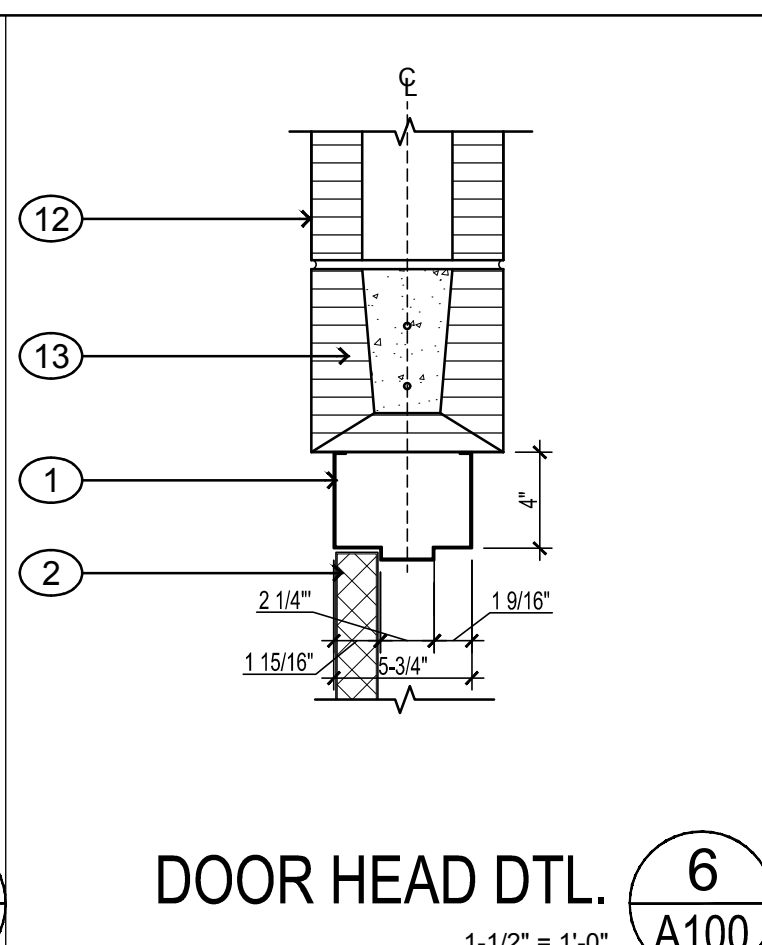
ROOF PLAN 3
BALOON PARK 1/4" = 1'-0"
A100



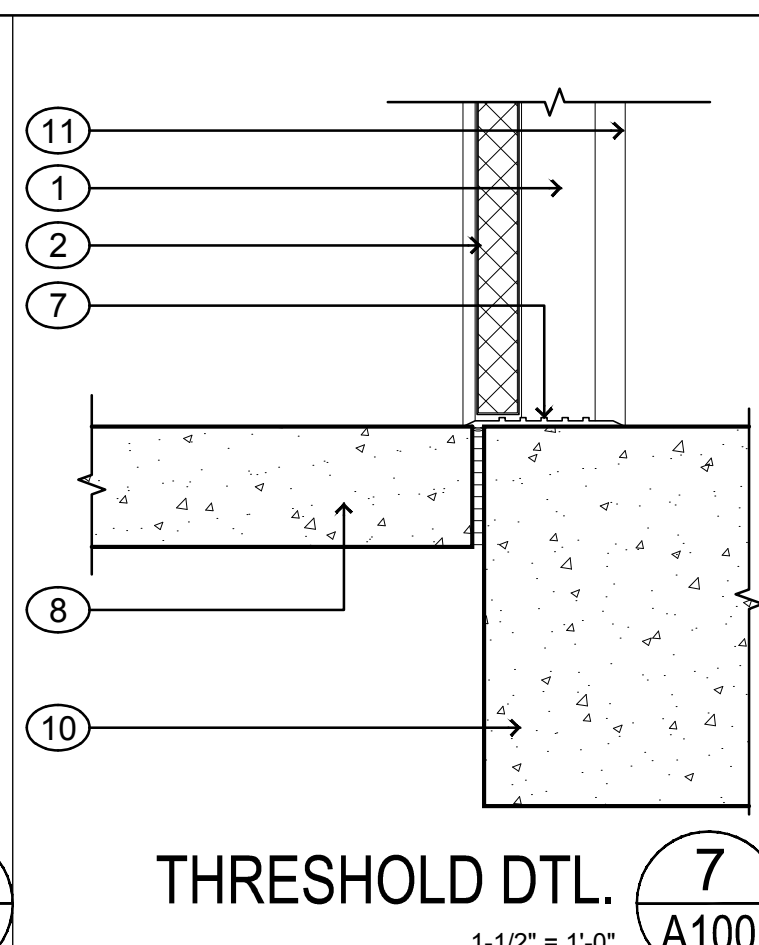
H.M. FRAME AND DOOR TYPES 4
1/4" = 1'-0"
A100



DOOR JAMB DTL. 5
1-1/2" = 1'-0"
A100



DOOR HEAD DTL. 6
1-1/2" = 1'-0"
A100



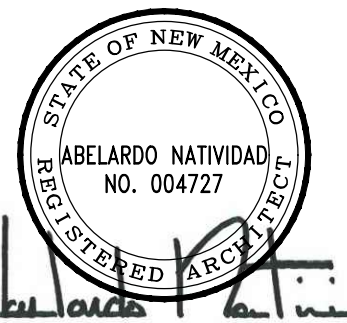
THRESHOLD DTL. 7
1-1/2" = 1'-0"
A100

CMU KEYED NOTES

- H.M. FRAME, SEE SCHEDULE.
- DOOR, SEE SCHEDULE.
- DOOR/WINDOW ANCHORS, 3 PER JAMB MIN. CLIP ANCHOR AT FLOOR WHERE REQUIRED.
- FULLY GROUTED AT ALL DOOR JAMBS.
- NOT USED.
- NOT USED.
- THRESHOLD.
- CONCRETE WALK, SEE CIVIL.
- NOT USED.
- CONCRETE FOOTING, SEE STRUCTURAL.
- EDGE OF JAMB BEYOND.
- CMU WALL, SEE WALL TYPES.
- CMU LINTEL, SEE STRUCTURAL.
- CONTINUOUS SEALANT, BOTH SIDES.

Project no: 21.16
Date: April 2021
Sheet:

BALOON PARK PLANS
BID LOT-1
A100



04.15.21

**Alamogordo
Park Restrooms**

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION	DATE
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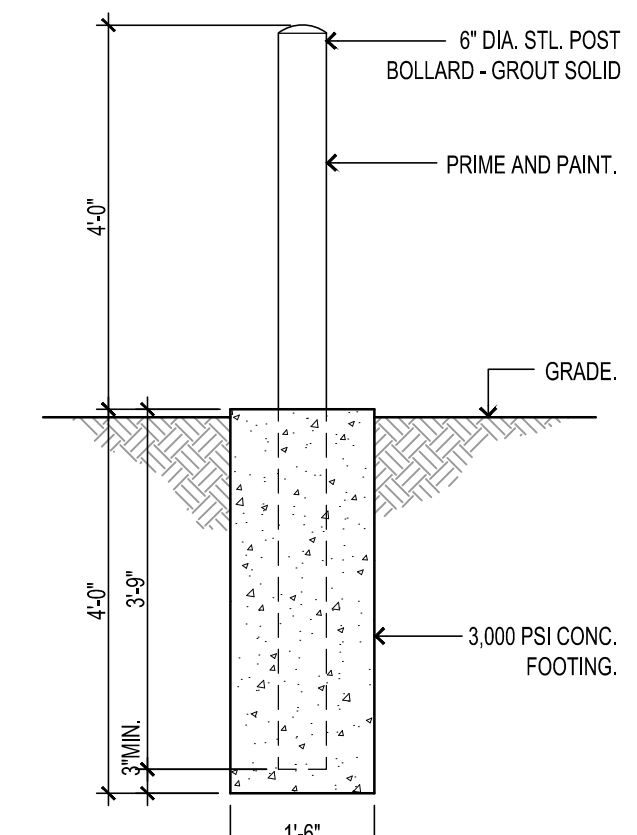
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Date: April 2021
Sheet:

**BALLOON PARK
ALTERNATE
PLANS-BID LOT-2**

A101

KEYED NOTES (RCP)

1. EXPOSED UNDERSIDE OF METAL ROOF PANELS.
2. PRE-FINISHED BREAK METAL TRIM, SEE BUILDING WALL SECTIONS.
3. 5/8" GYP. BD.; TAPE, TEXTURE, AND PAINT.
4. PAINTED STL. ROOF STRUCTURE, SEE WALL SECTIONS.
5. WALL MOUNTED LED LIGHT FIXTURE, SEE ELECTRICAL LIGHTING PLAN.



BOLLARD DTL. 8
1/2" = 1'-0" A101

ROOM SIGNS

CONTRACTOR TO PROVIDE ROOM SIGN ALUMINUM PLAQUES AS REQUIRED BY THE AMERICANS WITH DISABILITIES ACT.

CONTRACTOR SHALL PROVIDE 8"x8" ROOMS SIGNS TO READ:

- 2EA. - "ALL-GENDER RESTROOM" (WITH GRAPHICS)
- 1EA. - "PLUMBING CHASE"

SIGNAGE IS TO HAVE LETTERING AND BRAILLE SYMBOLS TO COMPLY WITH ADA. SIGNAGE PLAQUES ARE TO BE CONSTRUCTED OF CAST ALUMINUM. BASIS OF DESIGN TO BE GEMINI SIGNS CAST ALUMINUM PLAQUES OR APPROVED EQUAL. CONTRACTOR TO PROVIDE ALL MOUNTING HARDWARE.

H.M. DOORS & FRAMES

- 1.01 WELDED FRAMES
A. EXTERIOR FRAMES: 16 GAGE, HOT DIPPED GALVANIZED (A60) MATERIAL, FACTORY PRIMED PAINTED.
B. 1.02 ACCESSORIES
A. WEATHER SEAL GASKETING
B. ANCHORS: ONE FLOOR ANCHOR PER JAMB WITH THREE ADJUSTABLE JAMB ANCHORS PER JAMB TO BE COMPATIBLE WITH WALL CONSTRUCTION.
- 1.03 FABRICATION
A. WELDED DOOR FRAMES: FABRICATE FRAMES AS DIE CUT, FULLY WELDED UNITS.
1. FABRICATE FRAMES WITH REQUIRED MORTISED HARDWARE REINFORCEMENT PLATES (MINIMUM 7 GAGE) WELDED IN PLACE IN DOORS WHICH CALL FOR MORTISE TYPE LOCKSETS. GALVANIZED REINFORCEMENT PLATES ARE REQUIRED FOR GALVANIZED FRAMES.
2. REINFORCE FRAMES WIDER THAN 48 INCHES WITH ROLL FORMED STEEL CHANNELS FITTED TIGHTLY INTO FRAME HEAD, FLUSH WITH TOP.
3. PREPARE FRAME FOR SILENCERS. PROVIDE THREE SINGLE SILENCERS FOR SINGLE DOORS ON STRIKE SIDE.
- 1.04 FINISH
A. PRIMER: ZINC CHROMATE, BAKED ON, RUST INHIBITING TYPE (2 MIL THICKNESS PER COAT, TWO (2) COATS REQUIRED), THOROUGHLY CLEAN METAL SURFACES PRIOR TO APPLYING FINISH PRIMER PAINT.

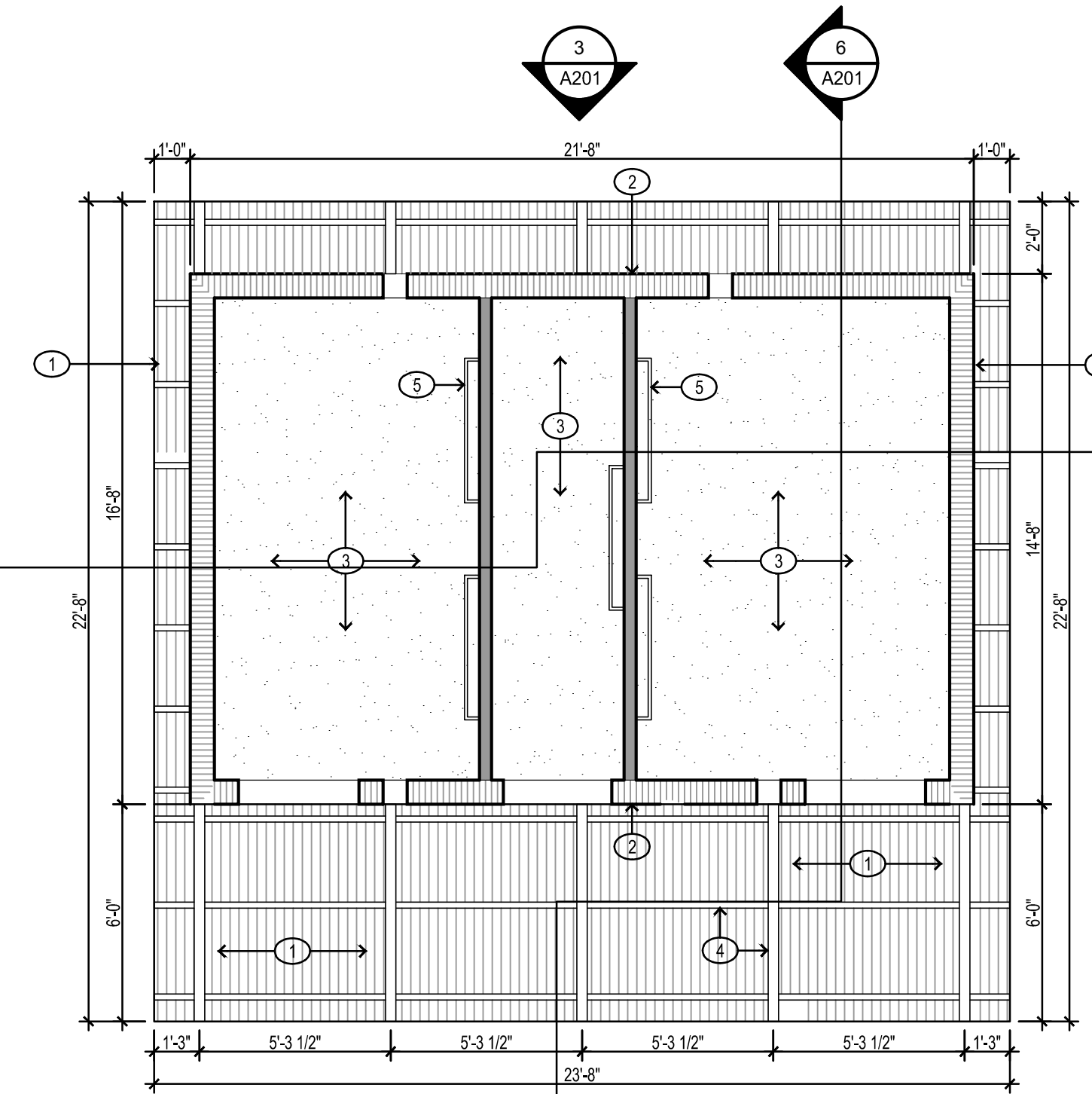
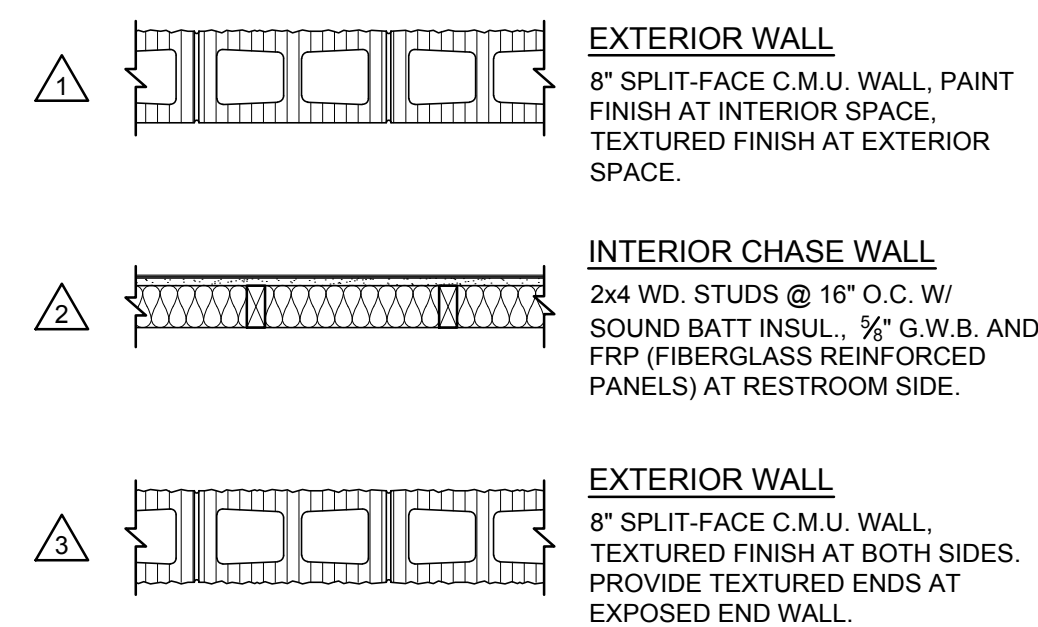
HARDWARE

CONTRACTOR TO PROVIDE HINGES, CLOSER, AND PRIVACY/STORAGE LOCKS AS REQUIRED PER DOOR. ALL KEYED DEVICES TO BE KEYED TO BEST LOCK SYSTEM. CONTRACTOR TO PROVIDE LATCH HARDWARE WITH OCCUPANCY INDICATOR. **ALL LOCKS TO BE KEYED TO BEST LOCK KEY SYSTEM**

KEYED NOTES (FP)

1. HIDDEN LINE OF ROOF ABOVE, SEE ROOF PLAN.
2. STAINLESS STEEL GRAB BARS; 42", 36", AND 18" VERTICAL.
3. S.S. VANDAL RESISTANT PLUMBING FIXTURES, SEE PLUMBING PLANS.
4. NOT USED.
5. RECESSED SOAP DISPENSER, BOBRICK B-4063.
6. TOILET TISSUE DISPENSER BOBRICK B-2888 OR EQUAL.
7. WALL MOUNTED BABY CHANGING STATION, KOALA KARE KB110-SSWM SURFACE MOUNTED STAINLESS STEEL CHANGING STATION OR APPROVED EQUAL.
8. 1" STAINLESS STEEL TOILET PARTITIONS W/ DIAMOND PATTERN; BRADLEY FLOOR MOUNTED OVERHEAD BRACED OR EQUAL.
9. 8x8x8 FROSTED GLASS BLOCK TO 7'-4" A.F.F.
10. 4" THK. 3,000 PSI REINFORCED CONCRETE WALK.
11. 2x2 PAINTED STL. TUBE RAILING, SEE EXTERIOR ELEVATIONS.
12. TRASH TWO PEG STYLE COAT HANGERS BEHIND DOOR.
13. TRASH CONTAINER OWNER PROVIDED.
14. ELECTRIC HAND DRYER - VERDEDRI BY WORLD DRYER XLERATOR MODEL # XL-SB OR APPROVED EQUAL.
15. LEAVE OUT 8x8 BLOCK OPENING AT BOTTOM OF WALL FOR DRAINAGE.
16. 4" THICK REINFORCED CONC. RAMP, SLOPE 1:12 MAX.
17. REINFORCED CONC. STAIRS.
18. 5'-0"x5'-2" CONCRETE LANDING AT BOTTOM OF STAIRS/RAMP.
19. 6" DIA. STL. TUBE PIPE BOLLARD, FILL WITH CONC., PRIME, AND PAINT. BOLLARDS TO BE SPACED AT 6'-0" O.C., TYP.

WALL TYPES



REFLECTED CEILING PLAN 2
BALLOON PARK ALT. 1/4" = 1'-0" A100

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLR. BSE.	WALLS					CLG. HT.	REMARKS	
			N	W	S	E	C			
100	MENS	F1	-	W2	W1	W2	W2	C1	VARIES	SLOPED CEILING
101	CHASE	F1	-	-	-	-	-	C1	VARIES	SLOPED CEILING
102	WOMENS	F1	-	W2	W2	W2	W1	C1	VARIES	SLOPED CEILING
103	ALL-GENDER	F1	-	W2	W1	W2	W2	C1	VARIES	SLOPED CEILING
104	CHASE	F1	-	-	-	-	-	C1	VARIES	SLOPED CEILING

* SEE RCP FOR CEILING DETAILS

FINISHES

FLOOR	BASE	WALL	CEILING
F1	SEALED CONCRETE	-	-
		W1	5/8" GYP. WALL BD. W/ FULL HT. FRP.
		W2	PAINTED C.M.U. BLOCK
		C1	5/8" GYP. BD.; TAPE, TEXTURE, AND PAINT.

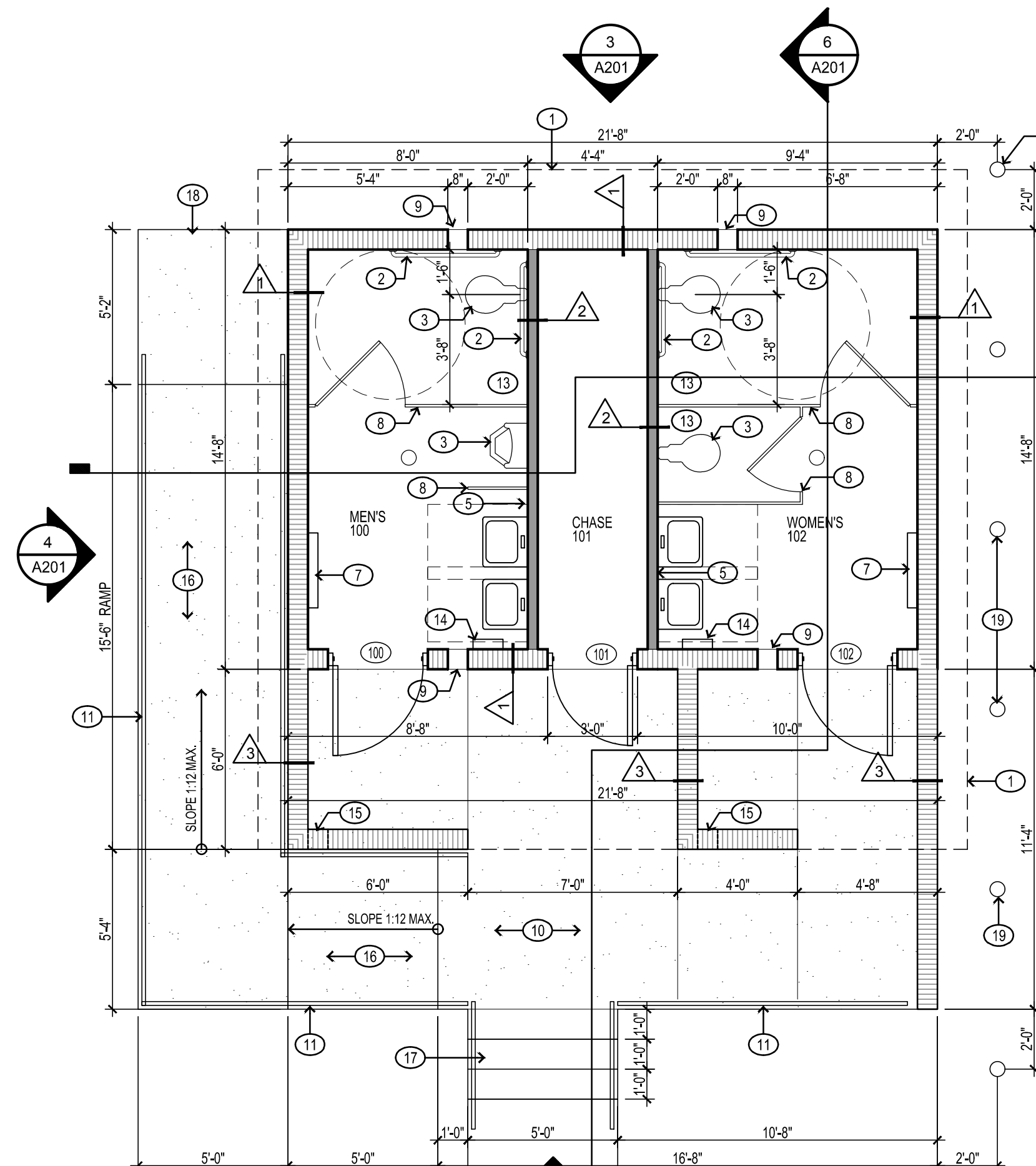
DOOR SCHEDULE

DOOR NO.	WIDTH	HT.	THKNS.	TYPE	FRAME W X D	FRAME TYPE	DETAILS			REMARKS
							HEAD	JAMB	JAMB	
100	3'-0"	7'-0"	1-3/4"	D1	2'x5 3/4"	F1	5	5	5	KEYED ENTRY LATCH & DEADBOLT W/ USE INDICATOR
101	2'-8"	7'-0"	1-3/4"	D1	2'x5 3/4"	F1	5	5	5	STORAGE ROOM LOCKSET & DEADBOLT
102	3'-0"	7'-0"	1-3/4"	D1	2'x5 3/4"	F1	5	5	5	KEYED ENTRY LATCH & DEADBOLT W/ USE INDICATOR
103	3'-0"	7'-0"	1-3/4"	D1	2'x5 3/4"	F1	5	5	5	KEYED ENTRY LATCH & DEADBOLT W/ USE INDICATOR
104	2'-4"	7'-0"	1-3/4"	D2	2'x5 3/4"	F2	5	5	5	STORAGE ROOM LOCKSET & DEADBOLT

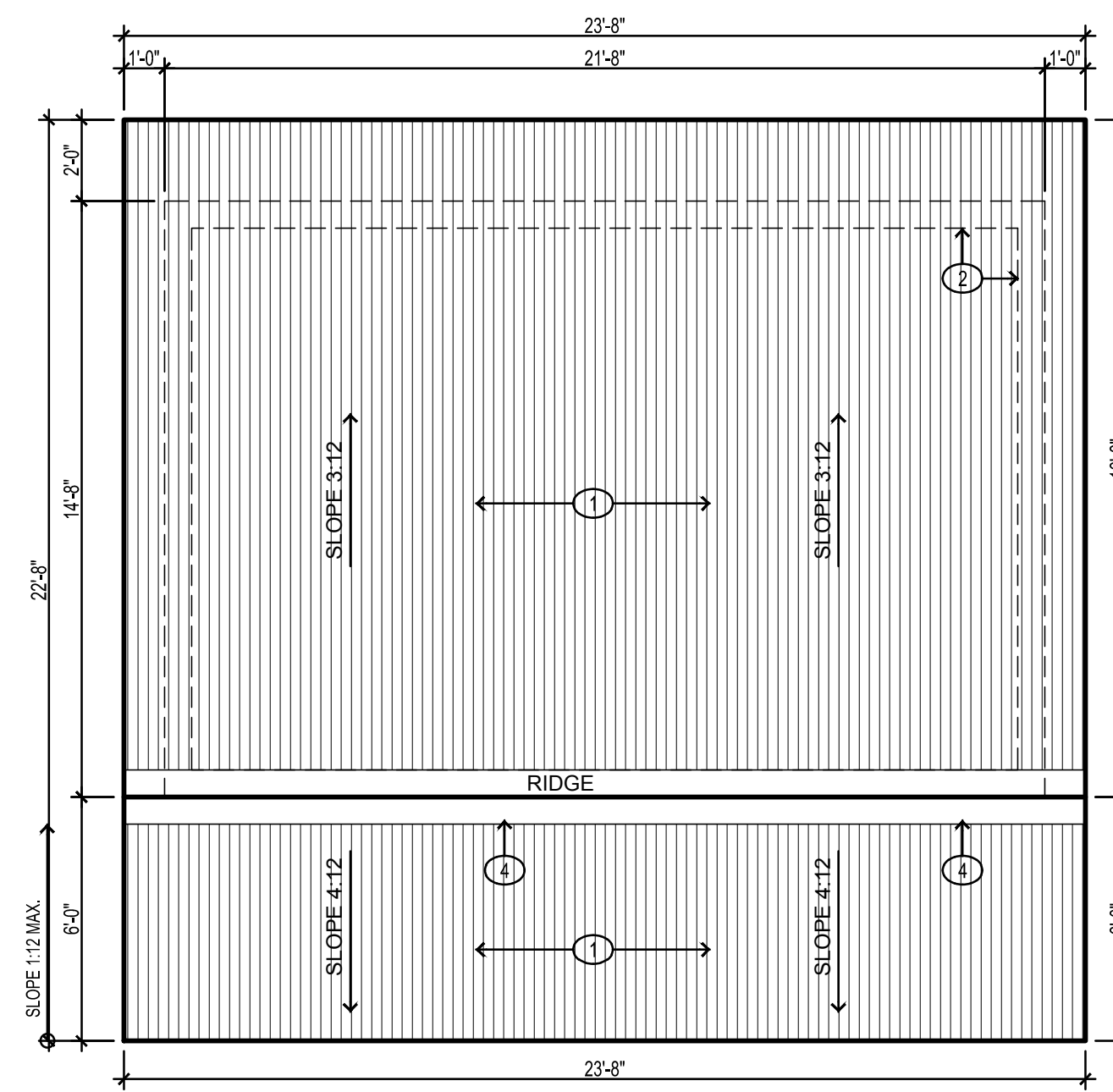
CONTRACTOR TO PROVIDE ALL REQUIRED HARDWARE FOR DOOR SYSTEMS TO MEET CITY OF ALAMOGORDO REQUIREMENTS. ALL LOCKS TO BE KEYED TO BEST LOCK KEY SYSTEM.

KEYED NOTES (RP)

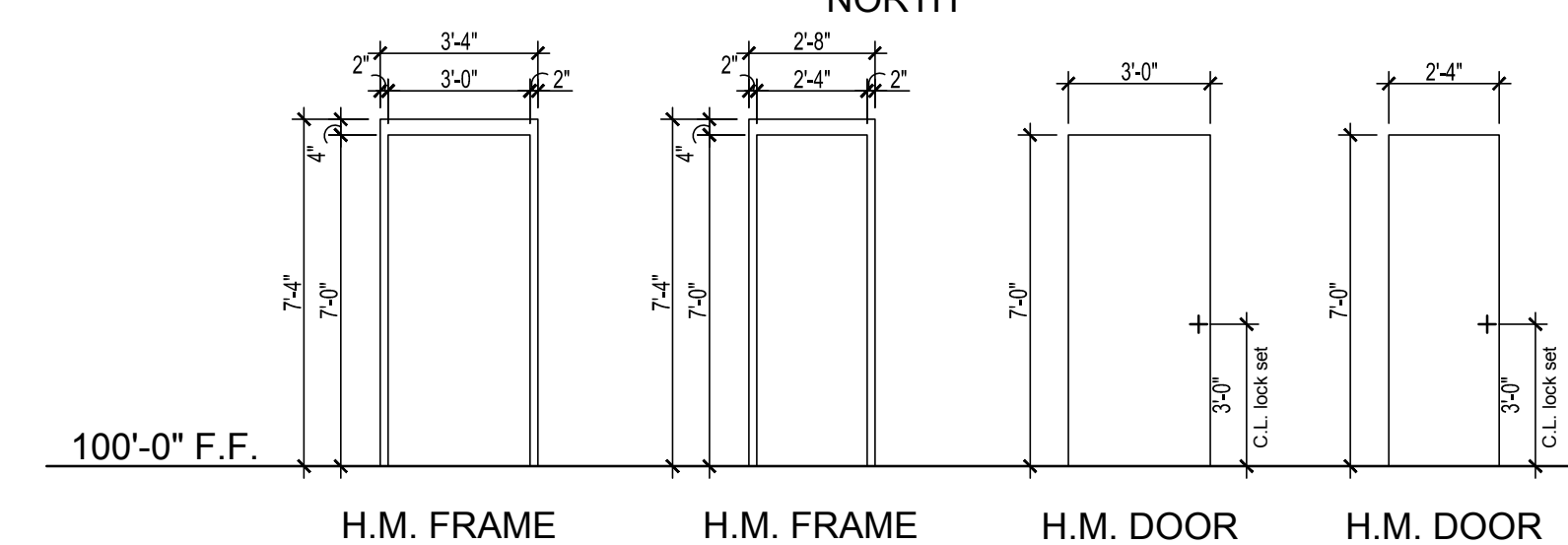
1. 22 GA. CORRUGATED METAL ROOF PANEL SYSTEM (BERRIDGE S-DECK OR APPROVED EQUAL), PROVIDE ALL TRIM PIECES AND REQUIRED ACCESSORIES, COLOR TO BE ACRYLIC-COATED GALVALUME.
2. HIDDEN LINE OF WALL BELOW.
3. LOW WALL BELOW.
4. RIDGE CAP, PROVIDE CLOSURE STRIP.



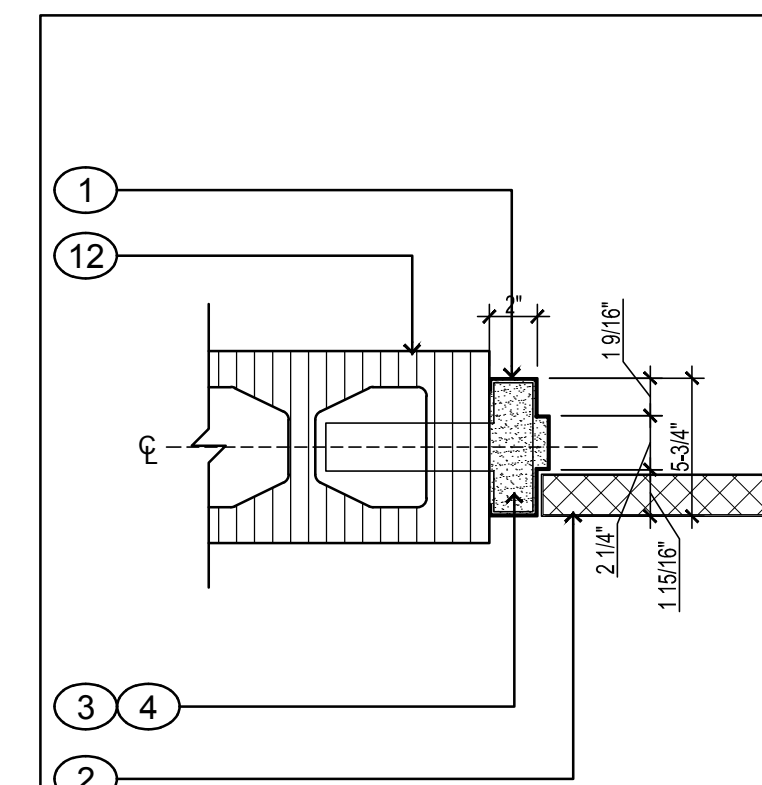
FLOOR PLAN 1
BALLOON PARK ALT. 1/4" = 1'-0" A100



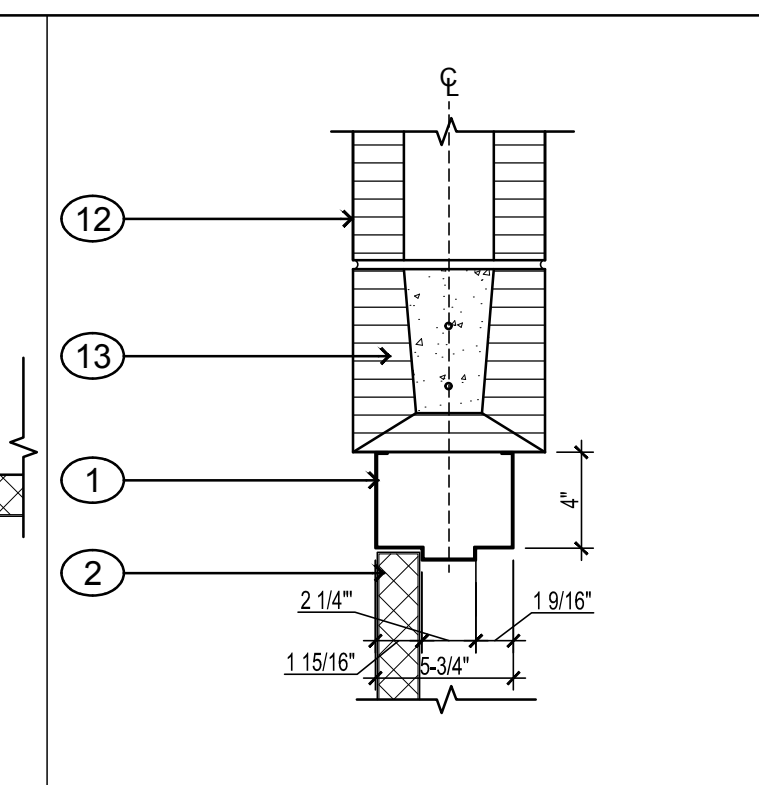
ROOF PLAN 3
BALLOON PARK ALT. 1/4" = 1'-0" A100



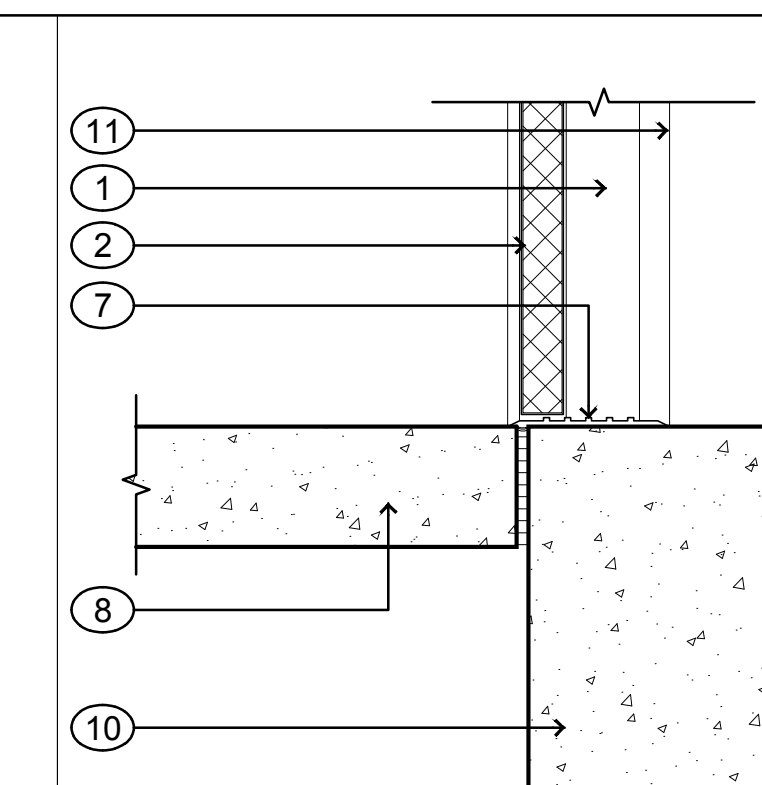
H.M. FRAME AND DOOR TYPES 4
1/4" = 1'-0" A100



DOOR JAMB DTL. 5
1-1/2" = 1'-0" A100



DOOR HEAD DTL. 6
1-1/2" = 1'-0" A100

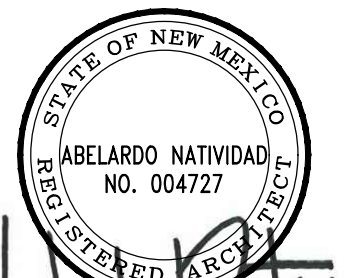


THRESHOLD DTL. 7
1-1/2" = 1'-0" A100

CMU KEYED NOTES

1. H.M. FRAME, SEE SCHEDULE.
2. DOOR, SEE SCHEDULE.
3. DOOR/WINDOW ANCHORS, 3 PER JAMB MIN. CLIP ANCHOR AT FLOOR WHERE REQUIRED.
4. FULLY GROUTED AT ALL DOOR JAMBS.
5. NOT USED.
6. NOT USED.
7. THRESHOLD.
8. CONCRETE WALK, SEE CIVIL.
9. NOT USED.
10. CONCRETE FOOTING, SEE STRUCTURAL.
11. EDGE OF JAMB BEYOND.
12. CMU WALL, SEE WALL TYPES.
13. CMU LINTEL, SEE STRUCTURAL.
14. CONTINUOUS SEALANT, BOTH SIDES.

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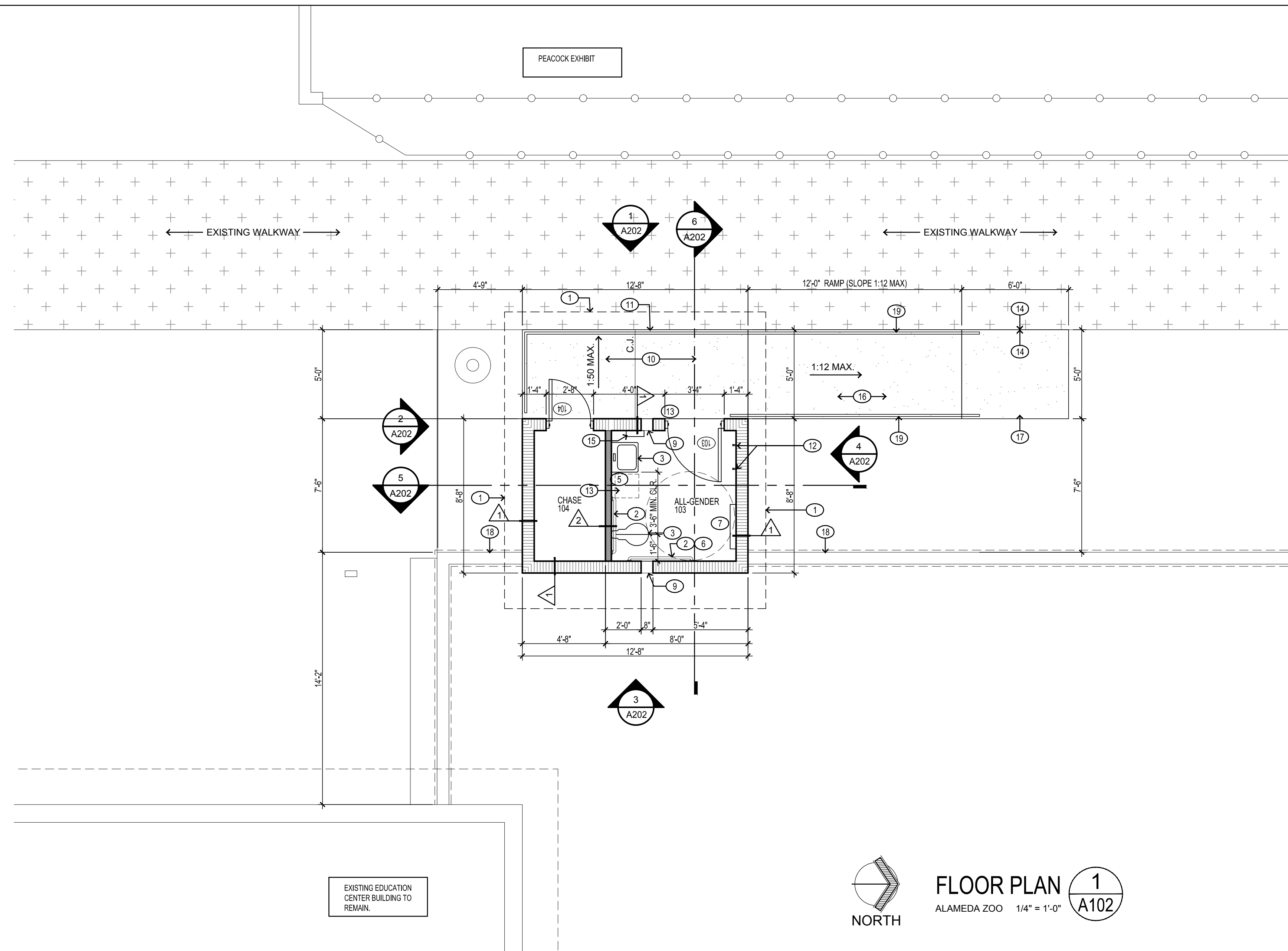
Alamogordo Park Restrooms

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

KEYED NOTES (FP)

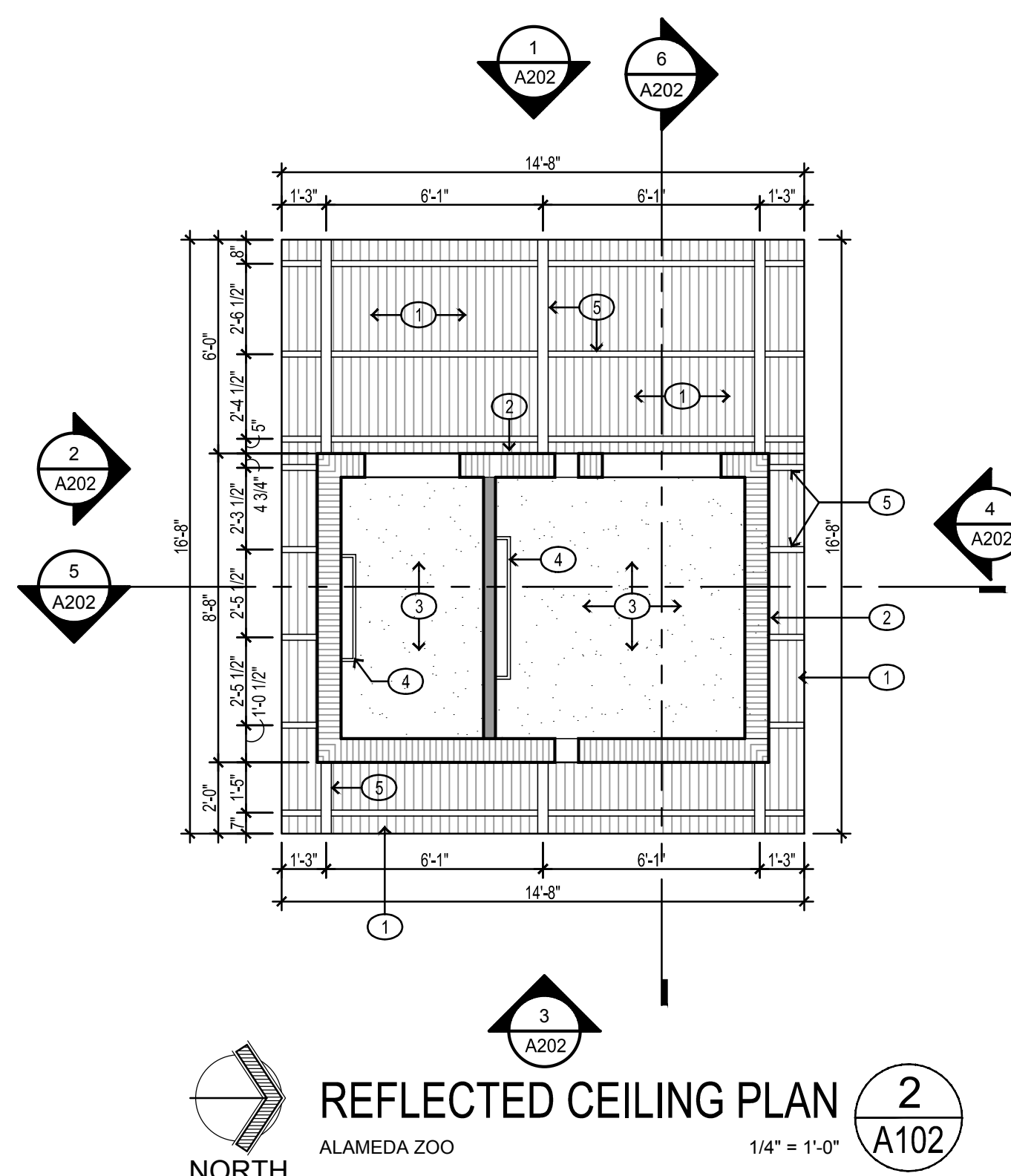
- HIDDEN LINE OF ROOF ABOVE. SEE ROOF PLAN.
- STAINLESS STEEL GRAB BARS, 42", 36", AND 18" VERTICAL.
- S.S. VANDAL RESISTANT PLUMBING FIXTURES. SEE PLUMBING PLANS.
- NOT USED.
- RECESSED SOAP DISPENSER, BOBRICK B-4063.
- TOILET TISSUE DISPENSER BOBRICK B-2888 OR EQUAL.
- WALL MOUNTED BABY CHANGING STATION, KOALA KARE KB110-SSWM SURFACE MOUNTED STAINLESS STEEL CHANGING STATION OR APPROVED EQUAL.
- NOT USED.
- 8x8x8 FROSTED GLASS BLOCK TO 7'-4" A.F.F.
- 4" THK 3,000 PSI REINFORCED CONCRETE WALK.
- 2x2 PAINTED STL. TUBE RAILING W/ WWM. SEE ELEVATIONS AND DETAILS.
- PROVIDE TWO PEG STYLE COAT HANGERS BEHIND DOOR.
- TRASH RECEPTACLE. OWNER PROVIDED.
- CONTRACTOR TO MATCH GRADE AT EXISTING ASPHALT PATH.
- ELECTRIC HAND DRYER - XLERATOR MODEL # XL-SB OR APPROVED EQUAL.
- 4" THICK REINFORCED CONCRETE RAMP, SLOPE 1:12 MAX.
- 5'-0"x5'-0" CONCRETE LANDING AT BOTTOM OF RAMP.
- EXISTING MASONRY WALL, MODIFY WALL AS REQUIRED BY NEW CONSTRUCTION AND PATCH AS REQUIRED AT AREA OF NEW CONSTRUCTION.
- 1-1/2" DIA. HANDRAIL, PRIME AND PAINT.



FLOOR PLAN 1
ALAMEDA ZOO 1/4" = 1'-0"
A102

KEYED NOTES (RCP)

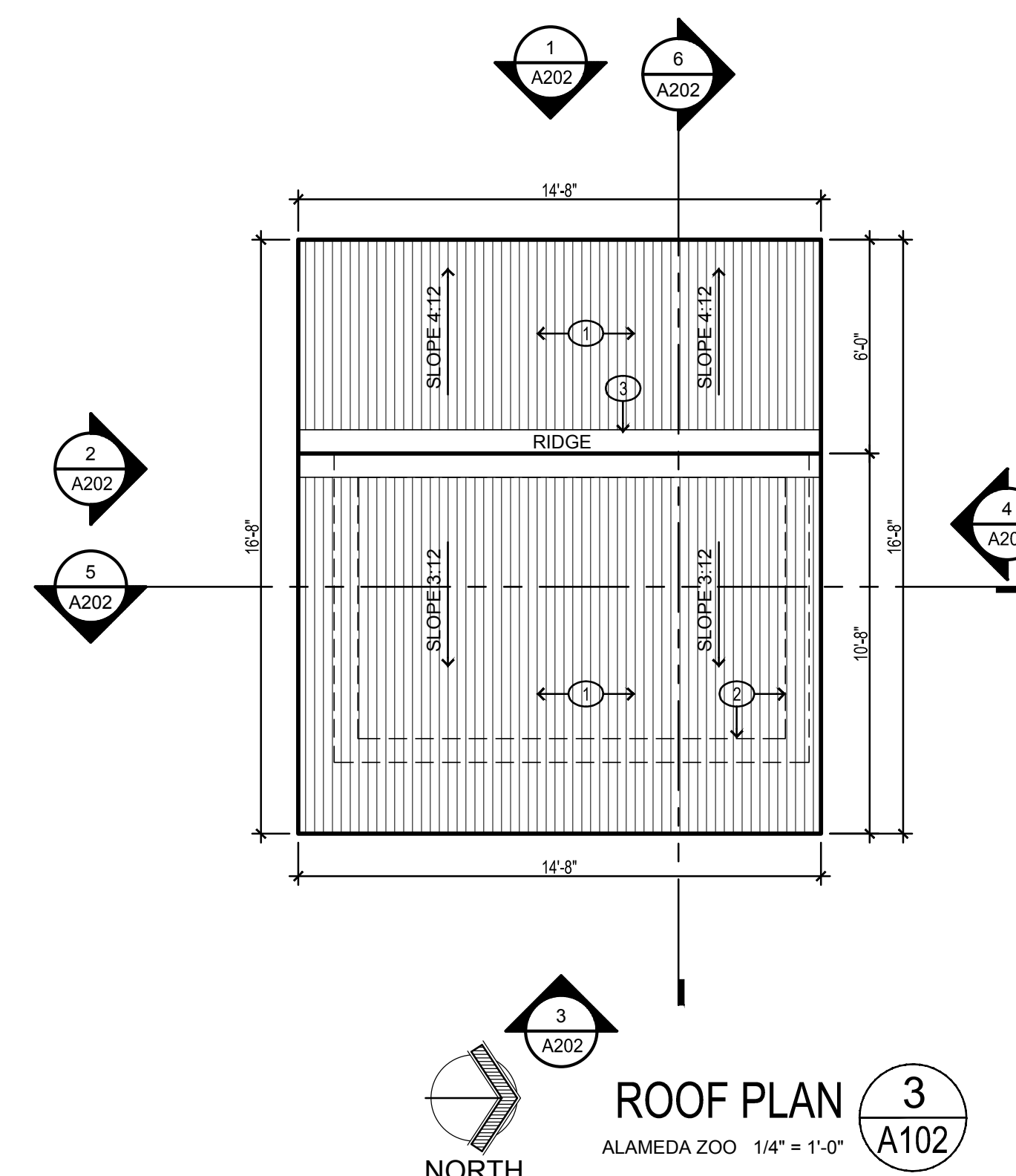
- EXPOSED UNDERSIDE OF METAL ROOF PANEL.
- PRE-FINISHED BREAK METAL TRIM AT PERIMETER OF BUILDING, TYP.
- 5/8" GYP. BD.; TAPE, TEXTURE, AND PAINT.
- WALL MOUNTED LED LIGHT FIXTURE, SEE ELECTRICAL LIGHTING PLAN.
- PAINTED STL. TUBE STRUCTURE. SEE ROOF FRAMING PLAN AND DETAILS.



REFLECTED CEILING PLAN 2
ALAMEDA ZOO 1/4" = 1'-0"
A102

KEYED NOTES (RP)

- 22 GA. CORRUGATED METAL ROOF PANEL SYSTEM (BERRIDGE S-DECK OR APPROVED EQUAL). PROVIDE ALL TRIM PIECES AND REQUIRED ACCESSORIES, COLOR TO BE ACRYLIC-COATED GALVALUME.
- HIDDEN LINE OF WALL BELOW.
- PROVIDE RIDGE CAP AND CLOSURE STRIP.

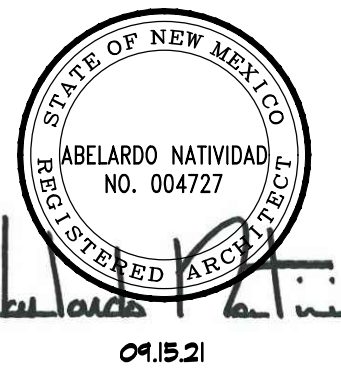


ROOF PLAN 3
ALAMEDA ZOO 1/4" = 1'-0"
A102

REVISION	DATE

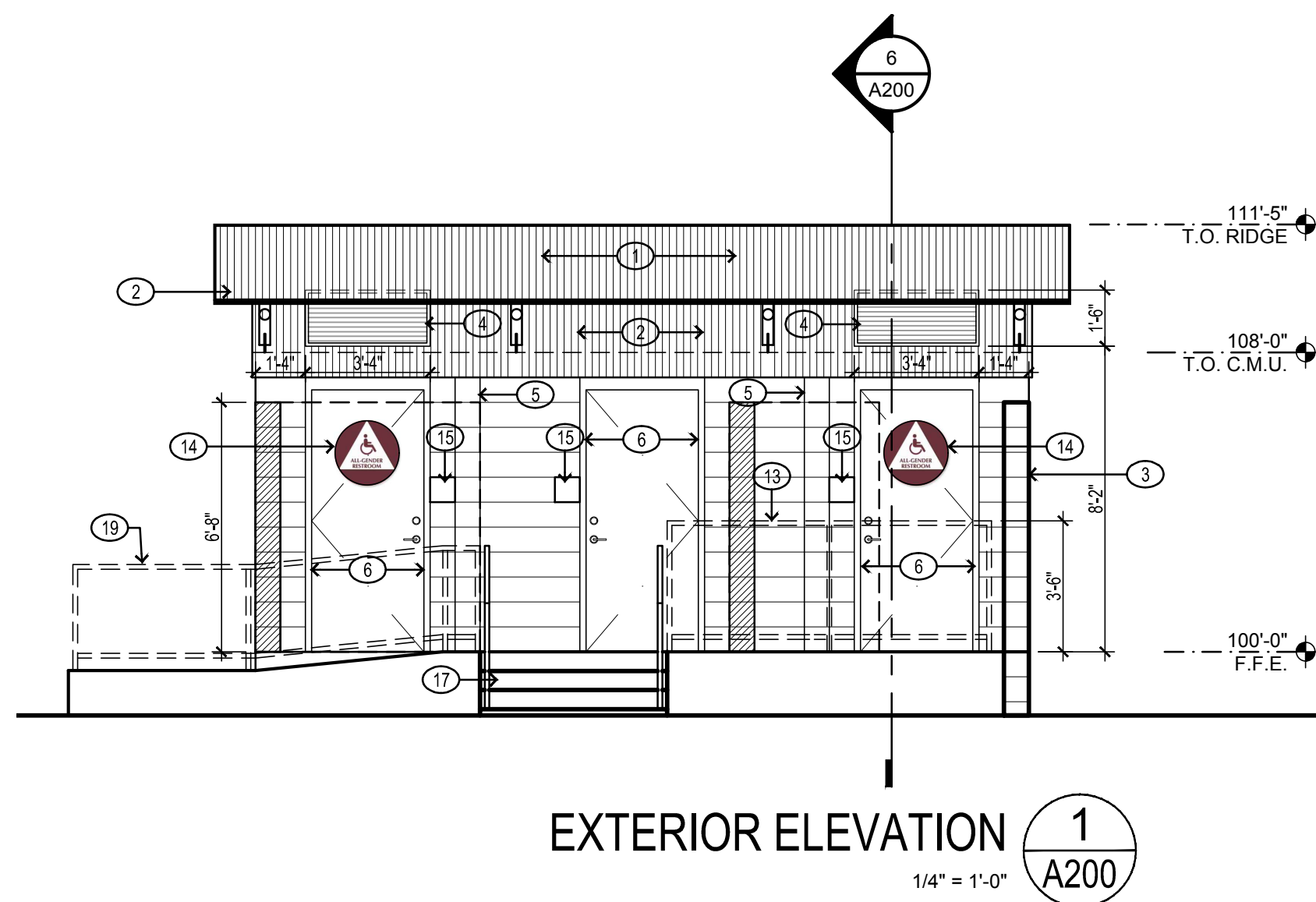
Project no: 21.16
Date: April 2021
Sheet:

**ALAMEDA PARK ZOO PLANS
BID LOT-3
A102**

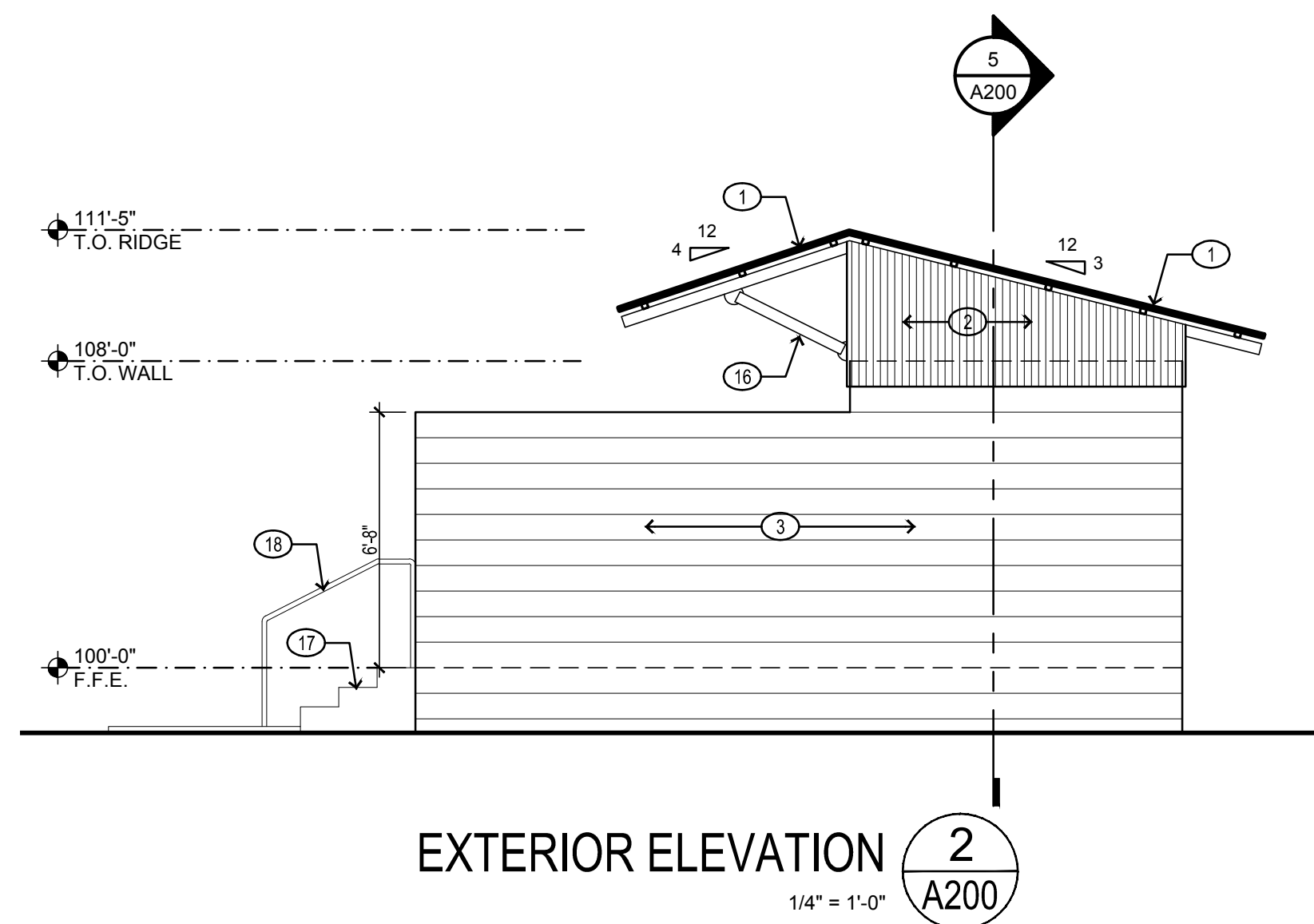


KEYED NOTES

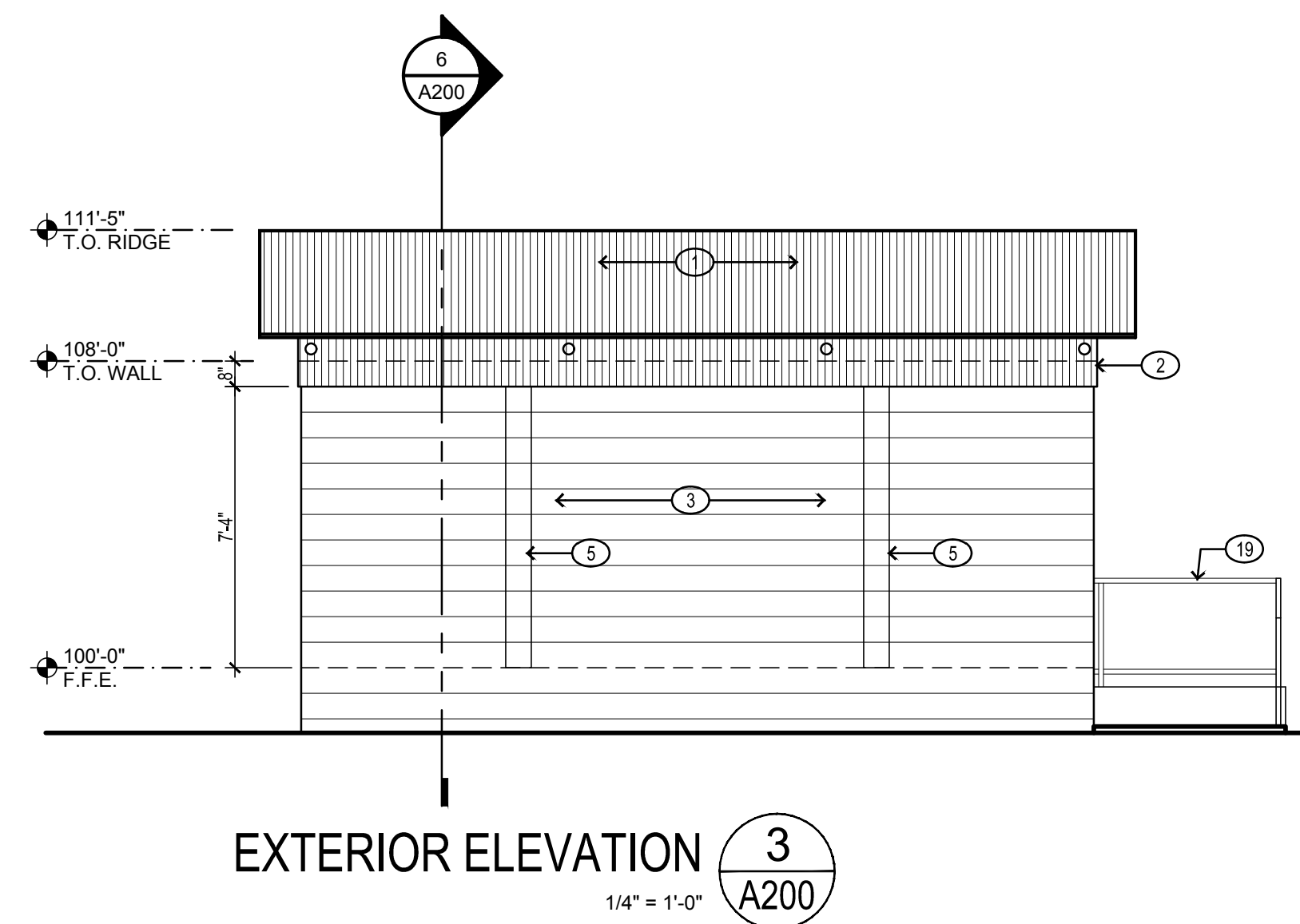
- 22 GA. CORRUGATED METAL ROOF PANEL SYSTEM (BERRIDGE S-DECK OR APPROVED EQUAL), PROVIDE ALL TRIM PIECES AND REQUIRED ACCESSORIES, COLOR TO BE ACRYLIC-COATED GALVALUME.
- 22 GA. CORRUGATED METAL MTL. WALL PANELS, TO MATCH ROOF SYSTEM.
- SPLIT-FACE C.M.U. BLOCK WALL WITH INTEGRAL WATER REPELLENT ADMIXTURE, 8x8x16 COLOR TO BE SELECTED. CMU AS PROVIDED BY UTILITY BLOCK CO. INC OR EQUAL.
- LOUVERED VENT, PAINT COLOR TO MATCH DOORS.
- 8x8x8 FROSTED GLASS BLOCK TO 7'-4" A.F.F.
- H.M. DOOR AND FRAME, SEE DOOR AND FRAME TYPES ON SHEET A100.
- 5/8" GYP. BD. CEILING SYSTEM AS SCHEDULED.
- PAINTED C.M.U. AT R.R. INTERIOR WALL.
- MARLITE STANDARD FIBERGLASS REINFORCED PANELS OR APPROVED EQUAL, OVER 5/8" GYP. BD. ON 2x4 WD. FRAMING. COLOR AS SELECTED BY OWNER/ARCHITECT FROM FULL RANGE OF STANDARD COLORS.
- REINFORCED CONCRETE SLAB, SEALED CONCRETE FINISH.
- REINFORCED CONCRETE FOOTING, SEE STRUCTURAL FOUNDATION PLAN AND DETAILS.
- 4" THICK EXTERIOR CONCRETE WALK.
- 1-1/2" DIA. STL. PIPE SAFETY RAILING, PRIME AND PAINT.
- CONTRACTOR TO PROVIDE 'ALL-GENDER' GRAPHIC AT RESTROOM DOORS, SEE DETAIL 9A200. GRAPHIC COLOR AS SELECTED BY OWNER/ARCHITECT.
- CONTRACTOR IS TO PROVIDE AN 8x8 SMOOTH BLOCK AT LOCATIONS WHERE ROOM SIGNS ARE TO BE MOUNTED, COORDINATE WITH OWNER/ARCHITECT.
- STL. TUBE STRUCTURE, SEE FRAMING PLAN AND DETAILS.
- REINFORCED CONC. STAIRS, SEE STAIR SECTION.
- 1-1/2" DIA. STL. PIPE HANDRAIL, PAINT FINISH.
- HIDDEN LINE OF PIPE HANDRAIL AT RAMP.
- CONCRETE LANDING AT BOTTOM OF STAIRS.



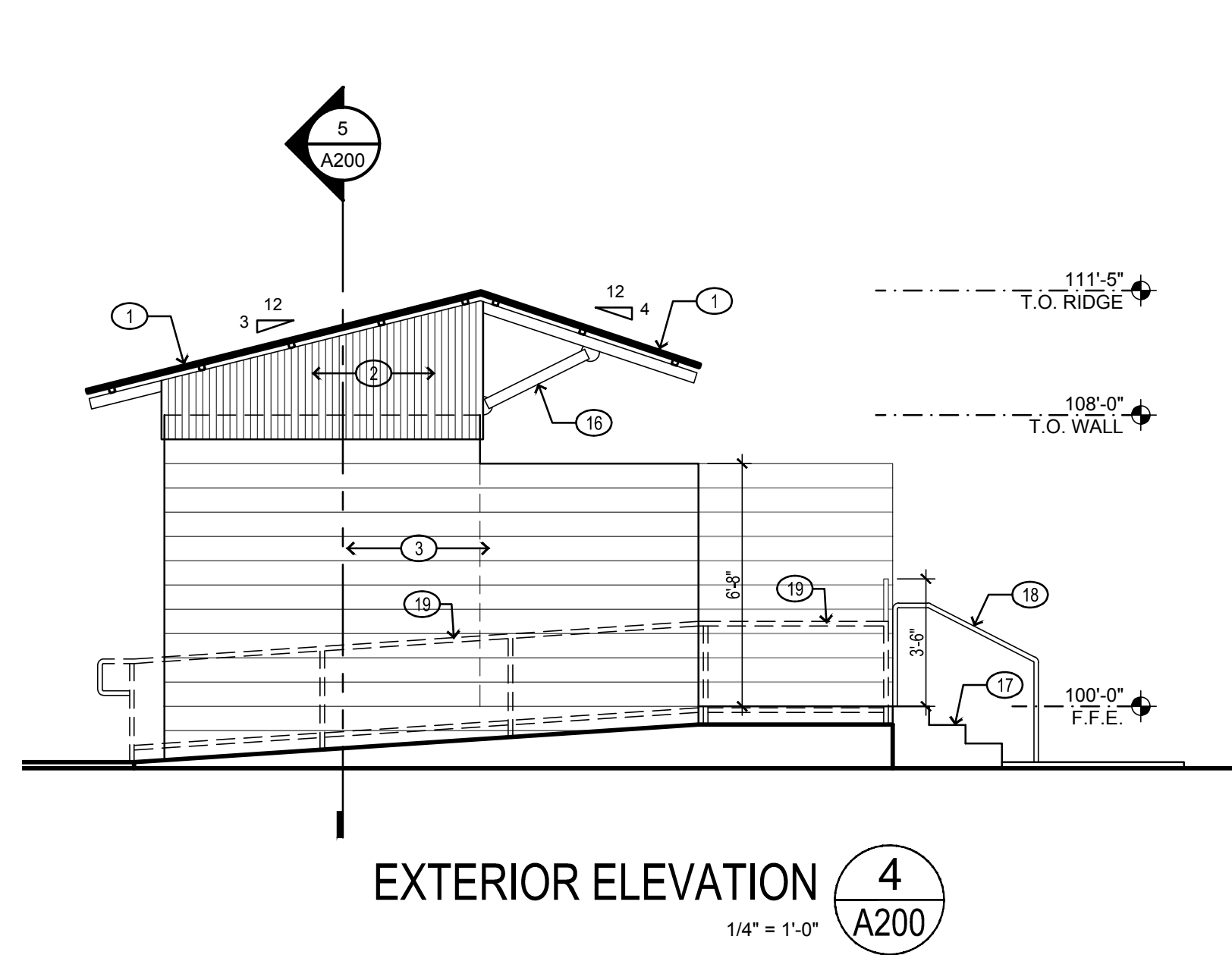
EXTERIOR ELEVATION **1**
1/4" = 1'-0"
A200



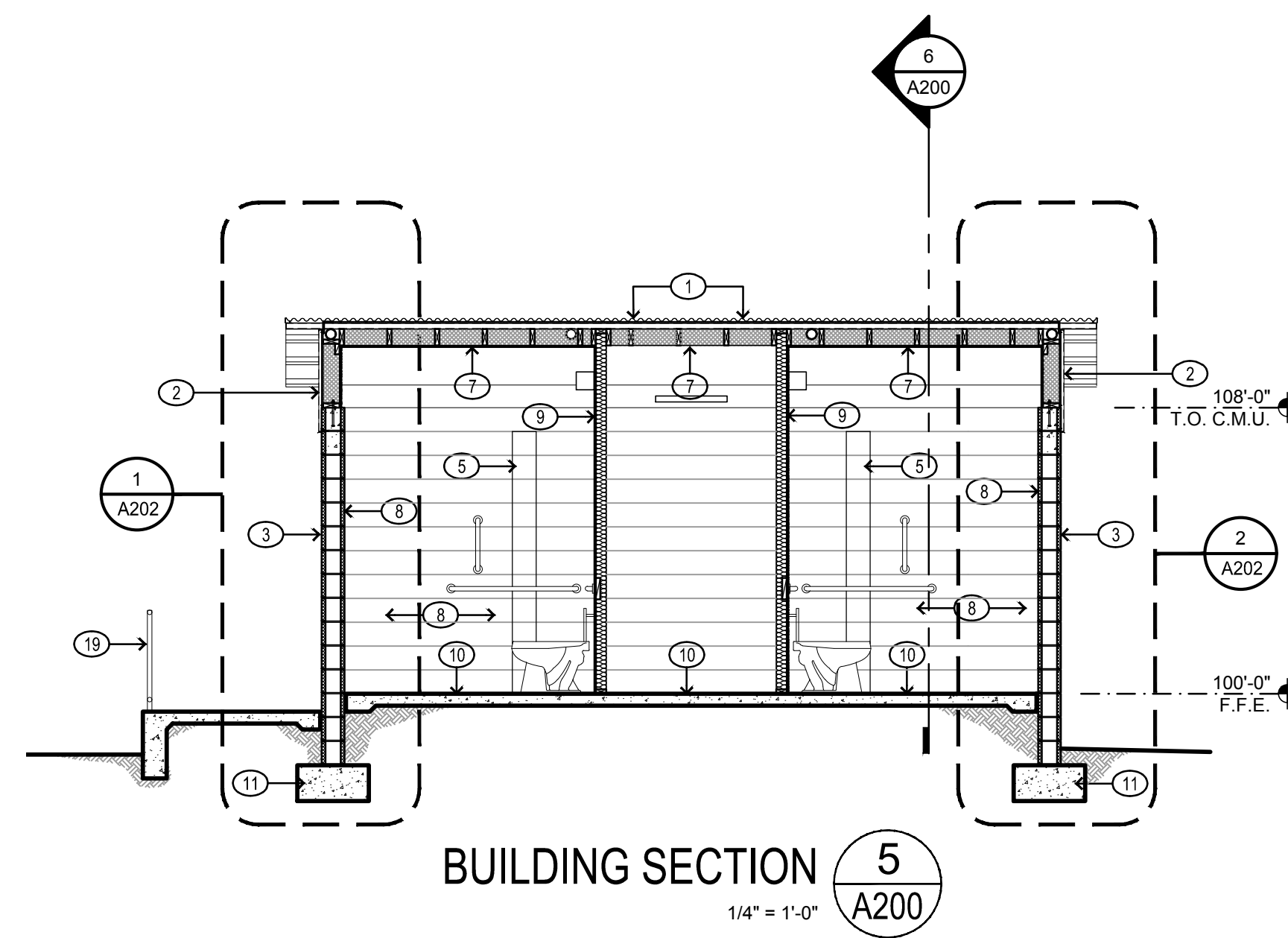
EXTERIOR ELEVATION **2**
1/4" = 1'-0"
A200



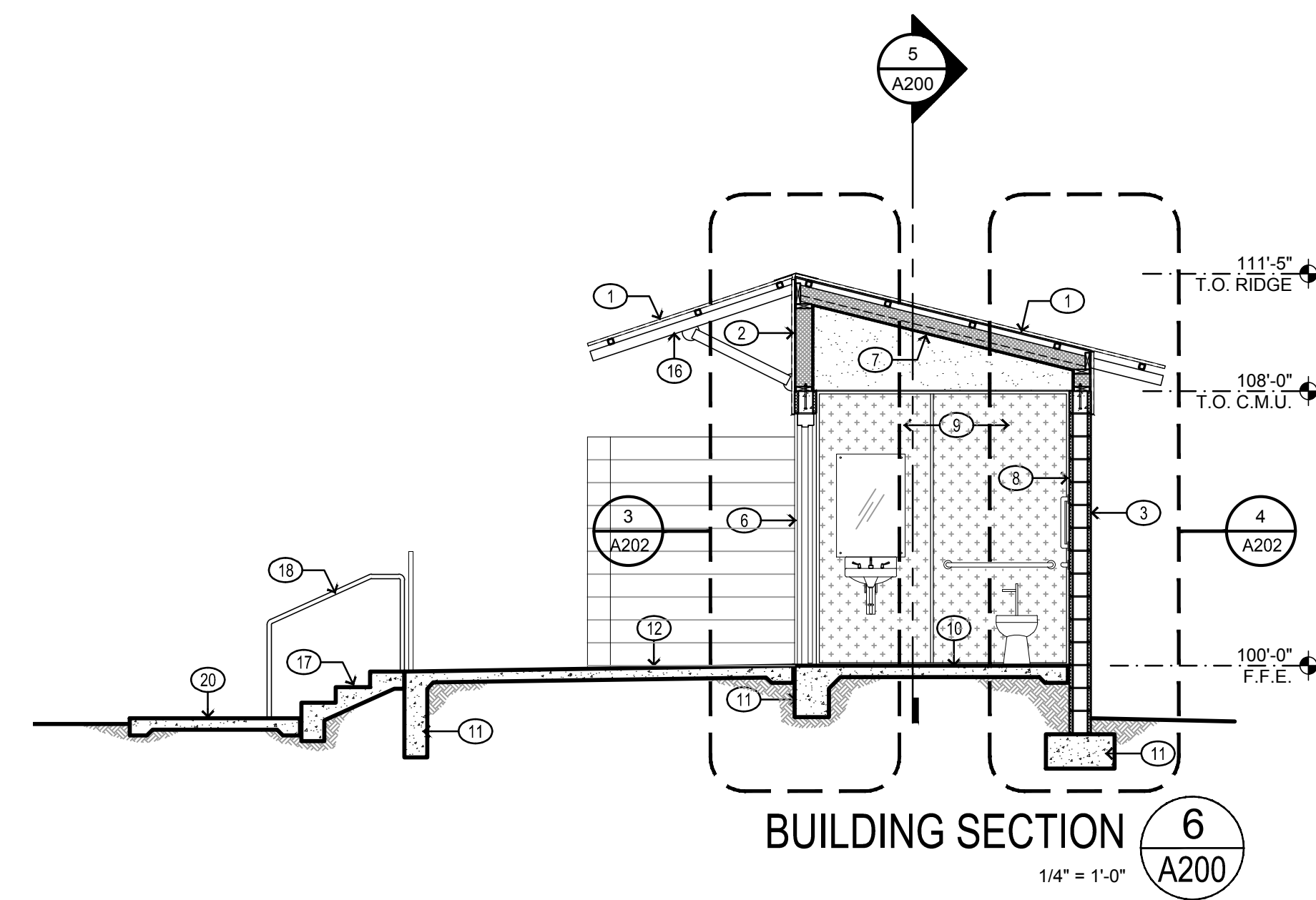
EXTERIOR ELEVATION **3**
1/4" = 1'-0"
A200



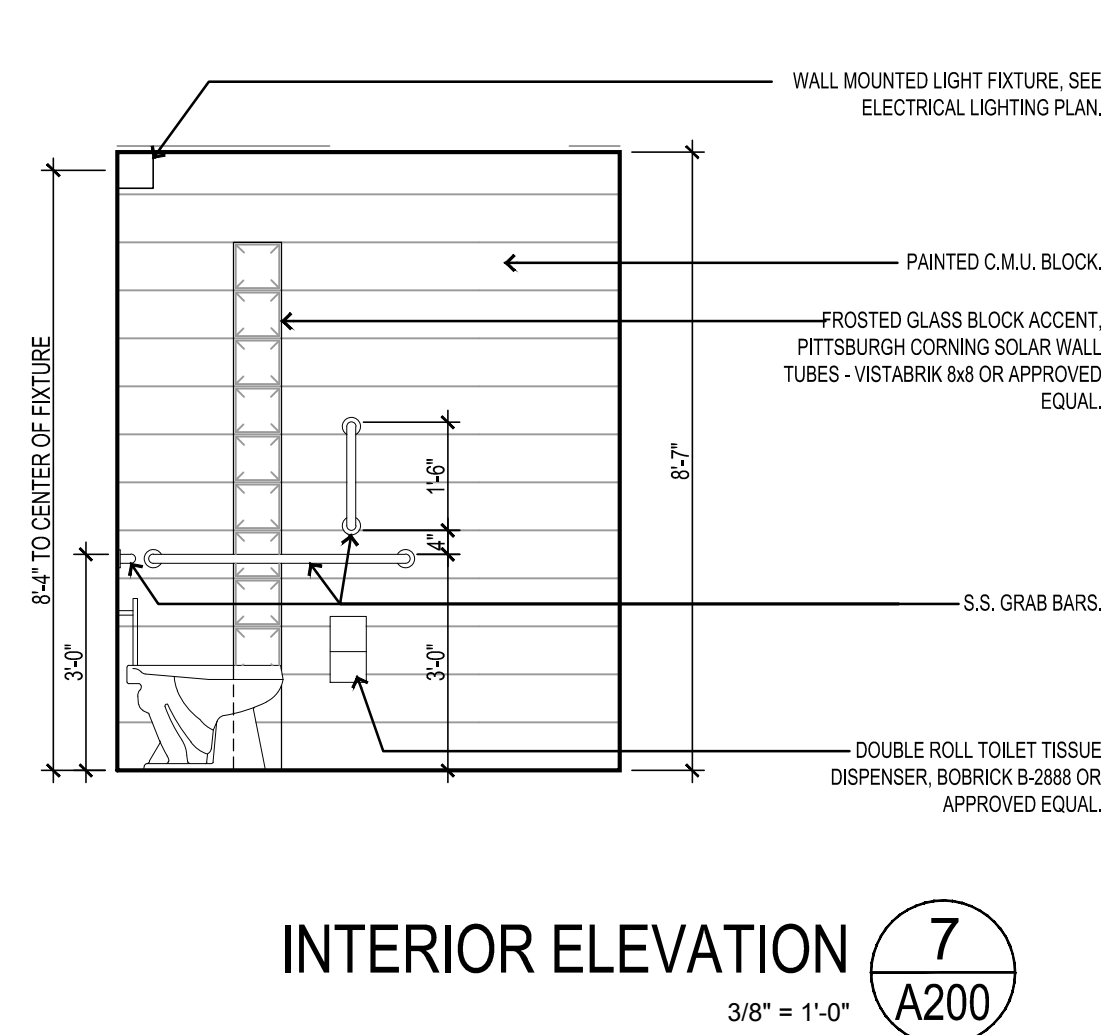
EXTERIOR ELEVATION **4**
1/4" = 1'-0"
A200



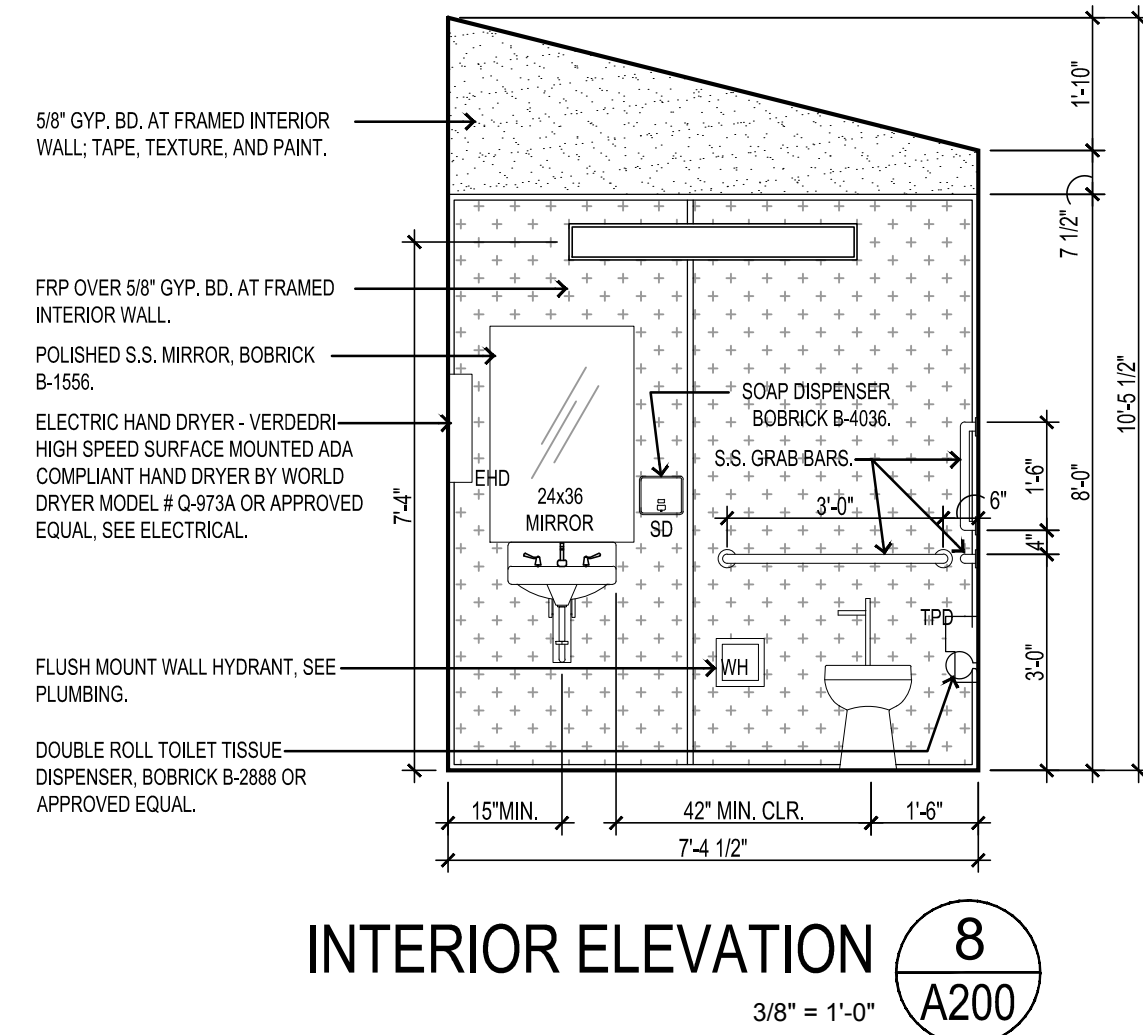
BUILDING SECTION **5**
1/4" = 1'-0"
A200



BUILDING SECTION **6**
1/4" = 1'-0"
A200



INTERIOR ELEVATION **7**
3/8" = 1'-0"
A200



INTERIOR ELEVATION **8**
3/8" = 1'-0"
A200



ALL-GENDER RR. GRAPHIC **9**
3" = 1'-0"
A200

**Alamogordo
Park Restrooms**

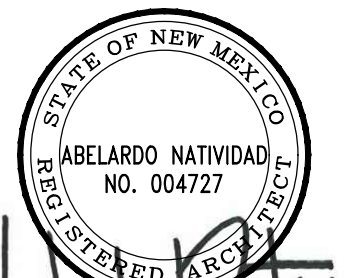
Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

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Date: April 2021
Sheet:

**ELEVATIONS
& SECTIONS
BID LOT-1
A200**



04.15.21

**Alamogordo
Park Restrooms**

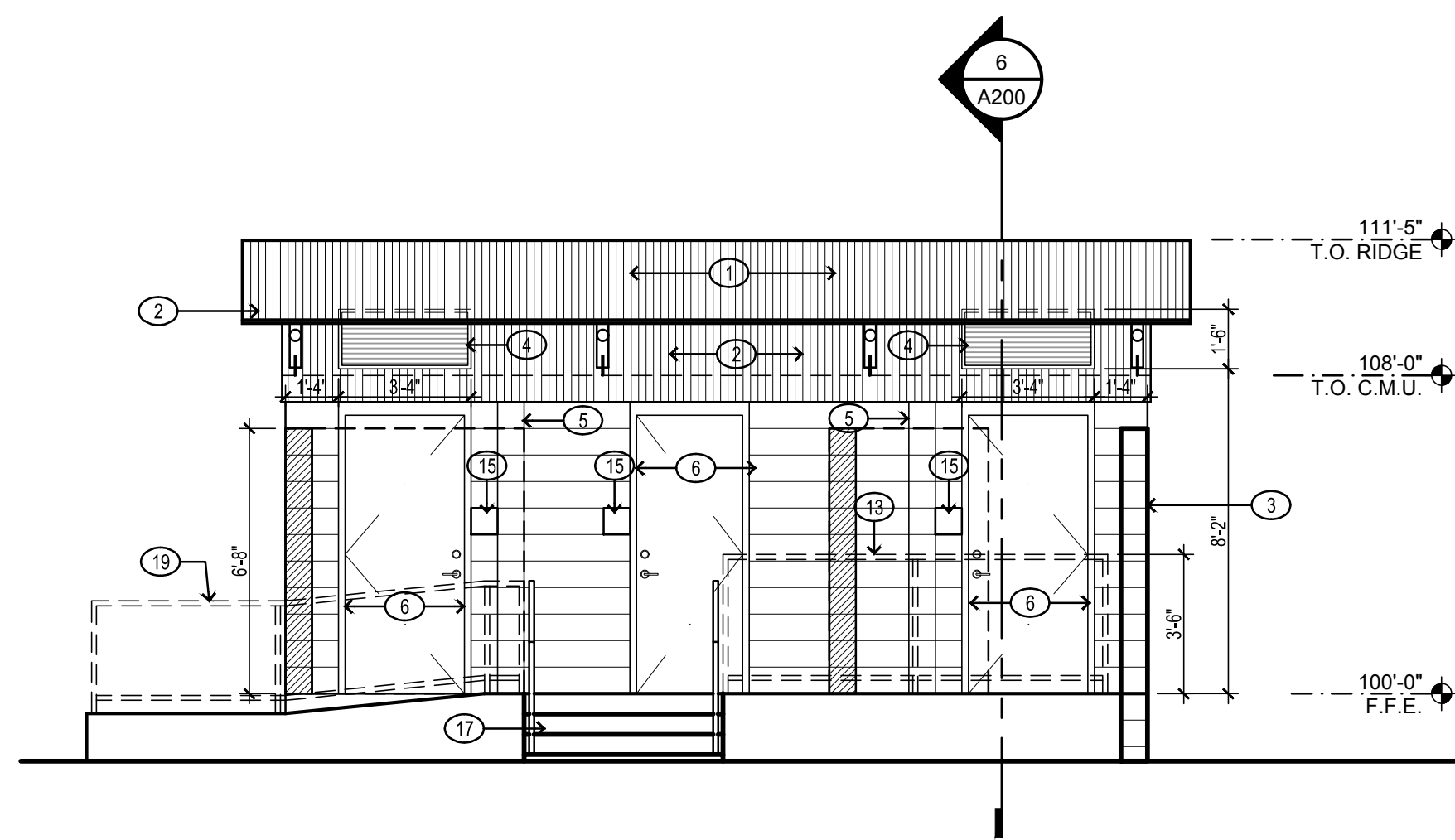
Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

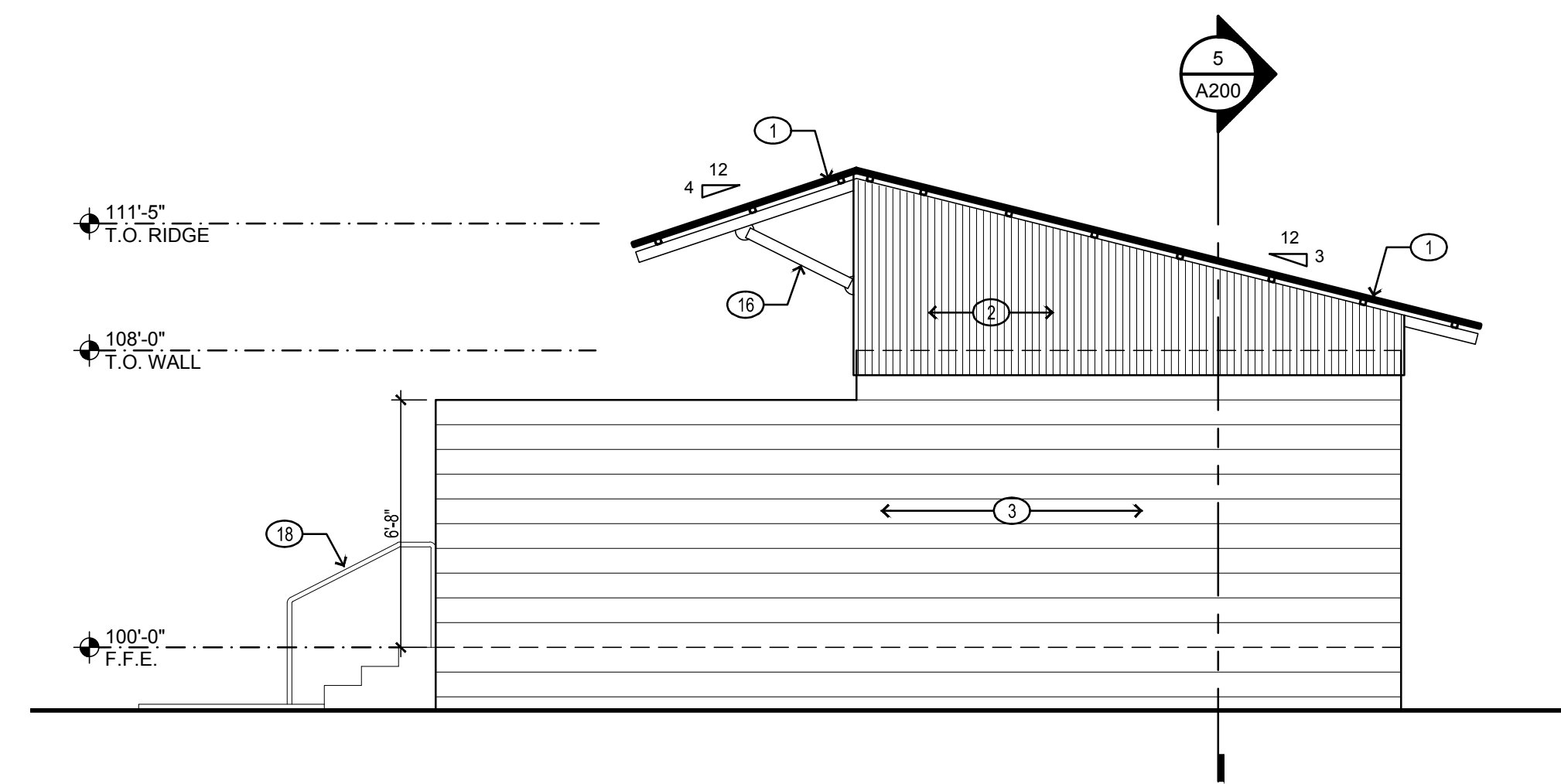
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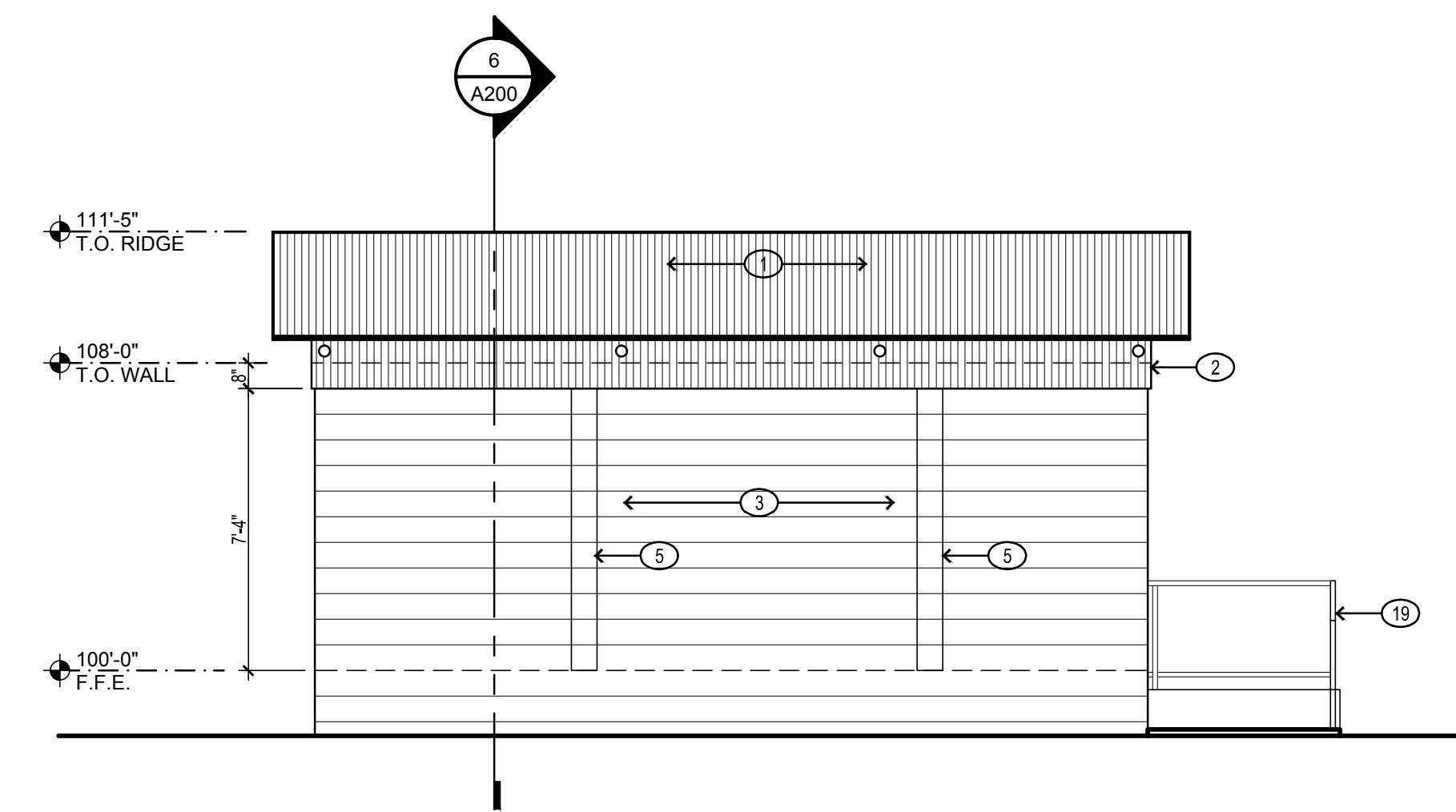
**ELEVATIONS
& SECTIONS
BID LOT-2
A201**



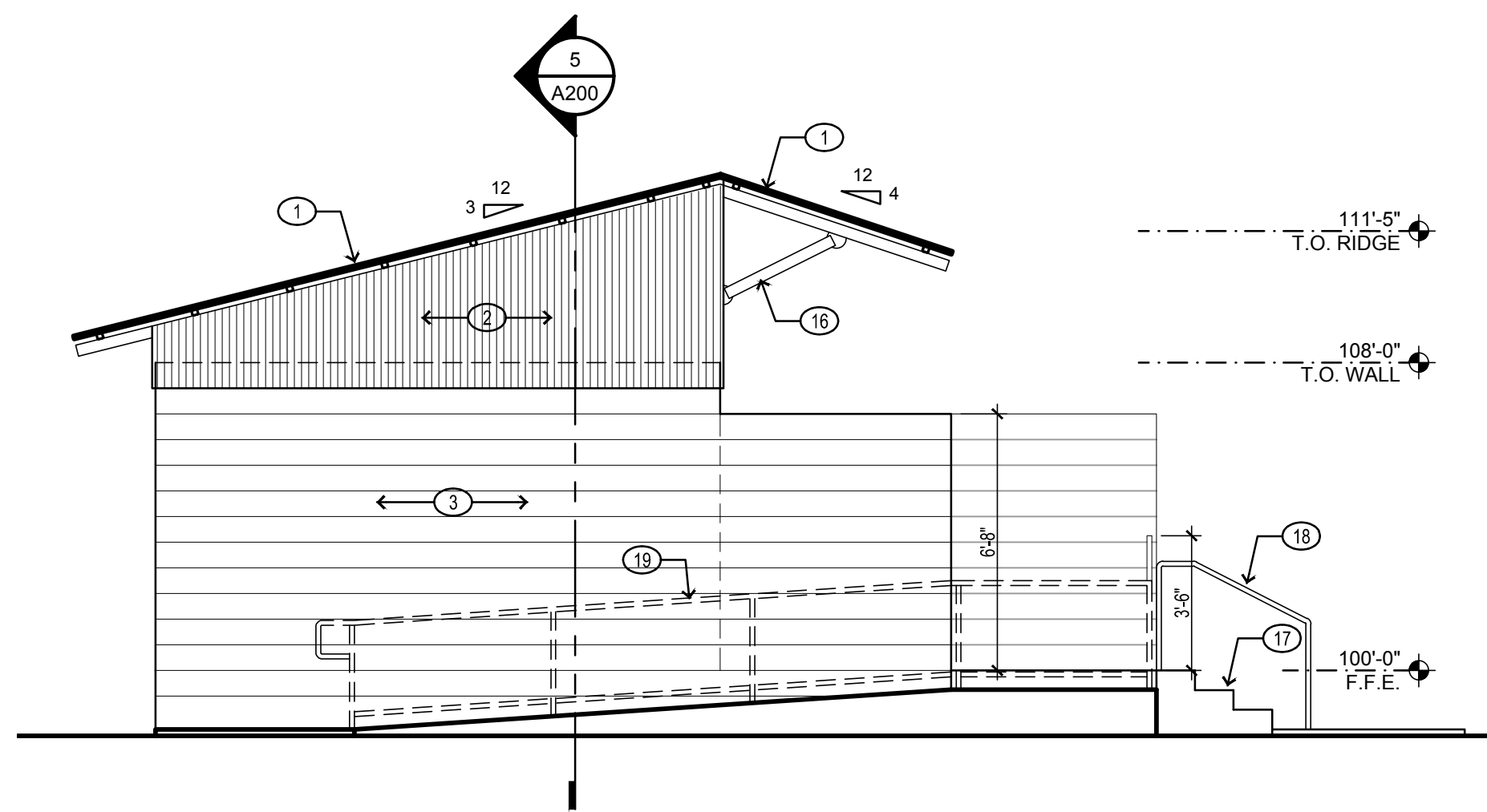
EXTERIOR ELEVATION 1
BALLOON PARK ALT.
1/4" = 1'-0"
A201



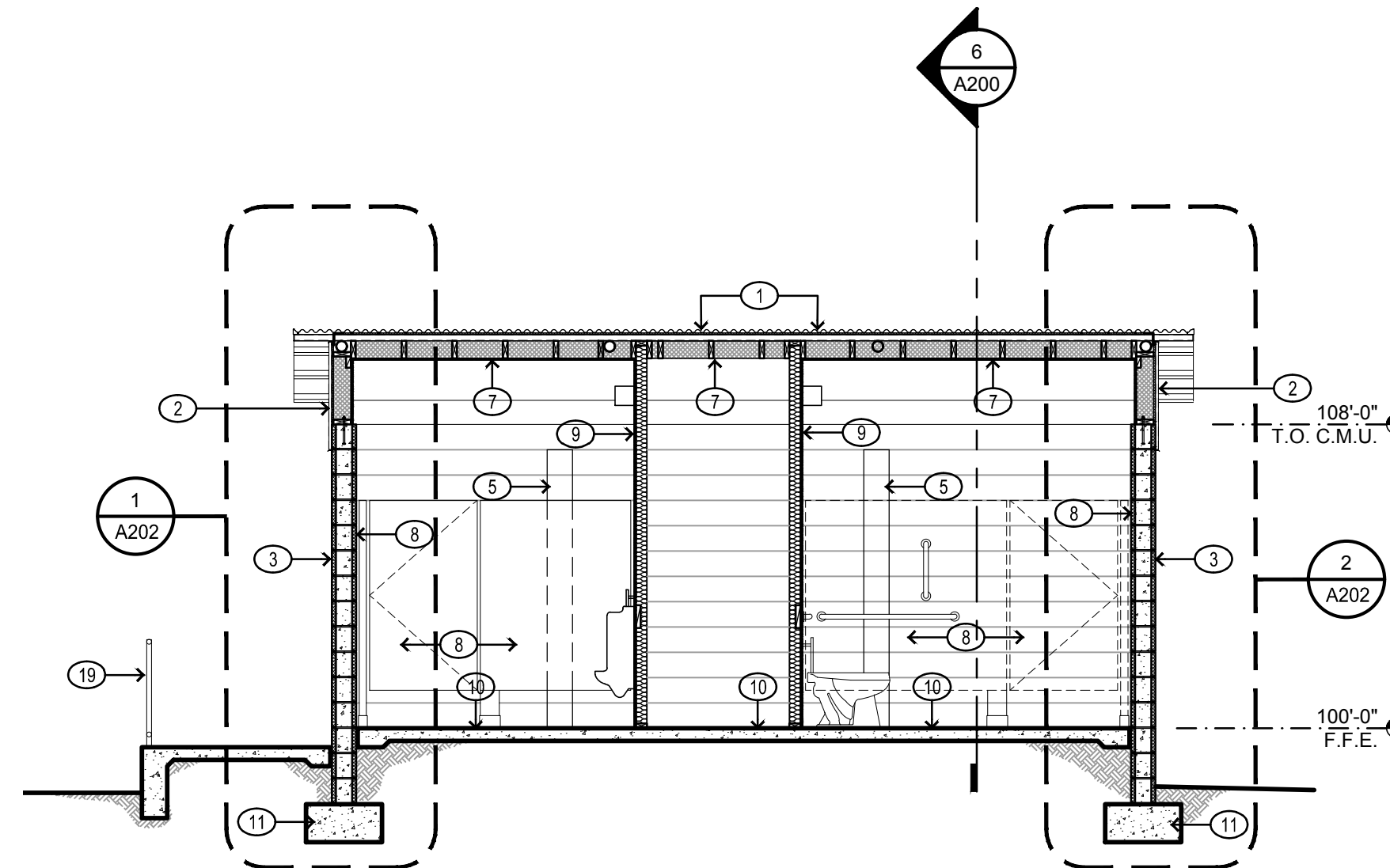
EXTERIOR ELEVATION 2
BALLOON PARK ALT.
1/4" = 1'-0"
A201



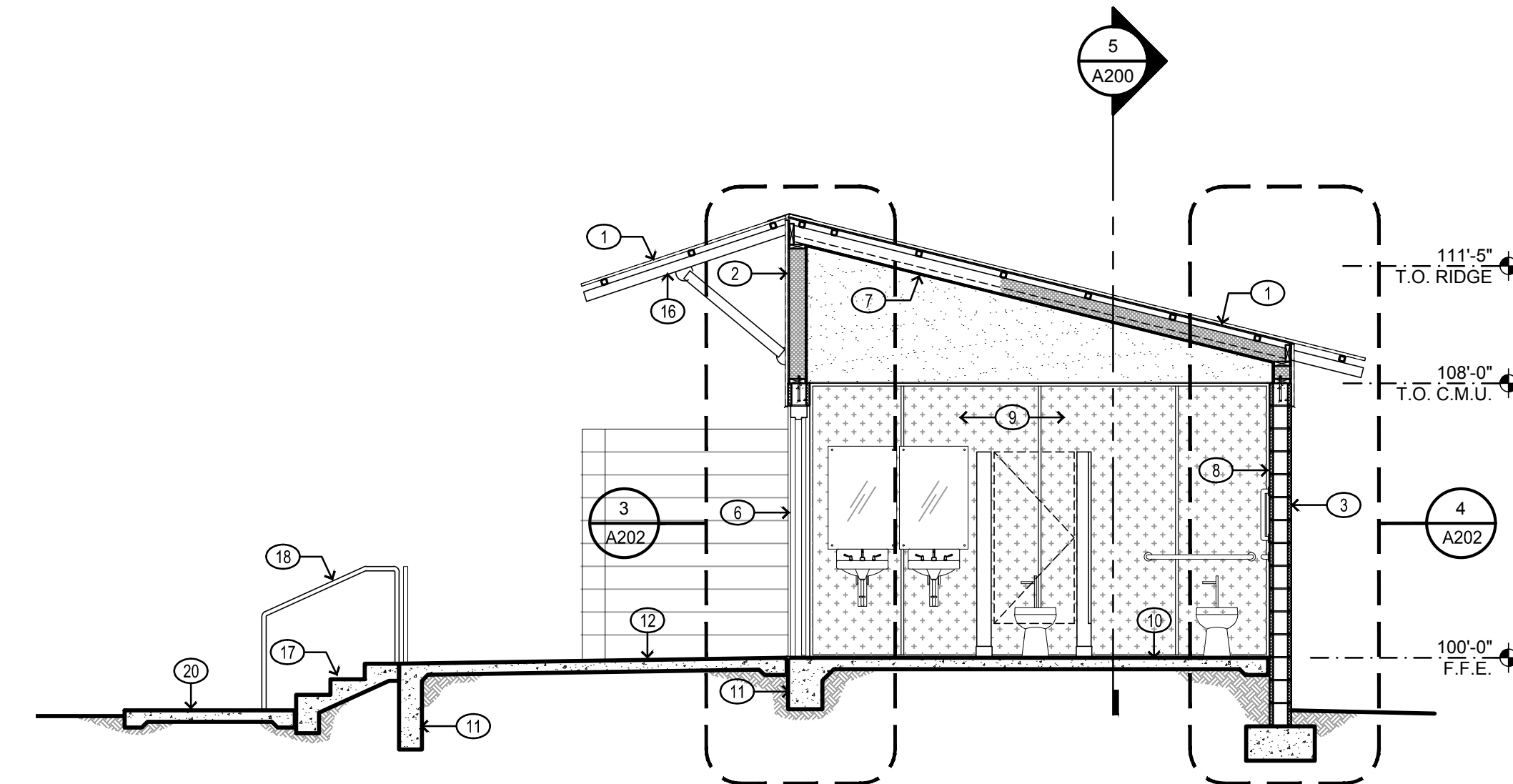
EXTERIOR ELEVATION 3
BALLOON PARK ALT.
1/4" = 1'-0"
A201



EXTERIOR ELEVATION 4
BALLOON PARK ALT.
1/4" = 1'-0"
A201



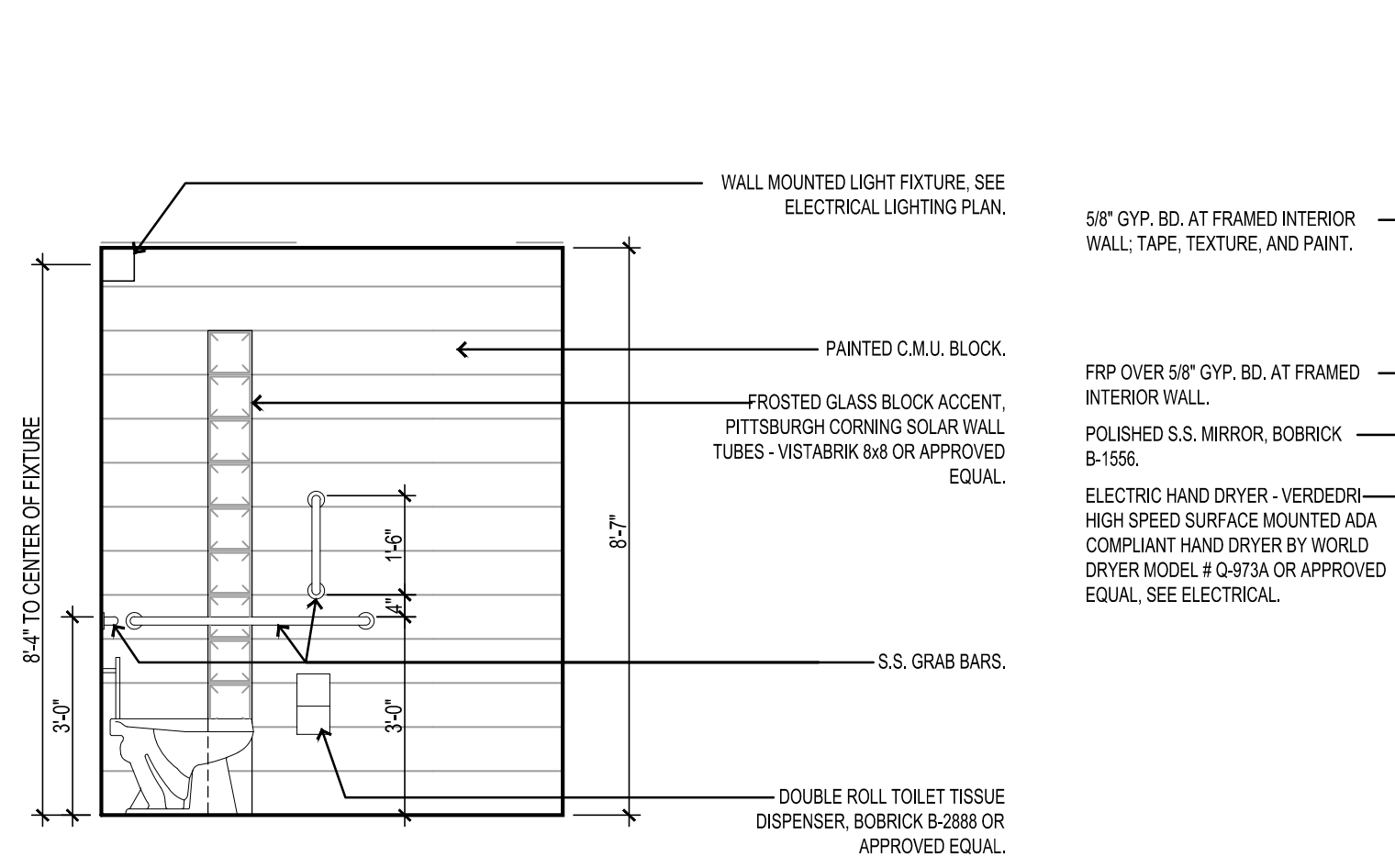
BUILDING SECTION 5
BALLOON PARK ALT.
1/4" = 1'-0"
A201



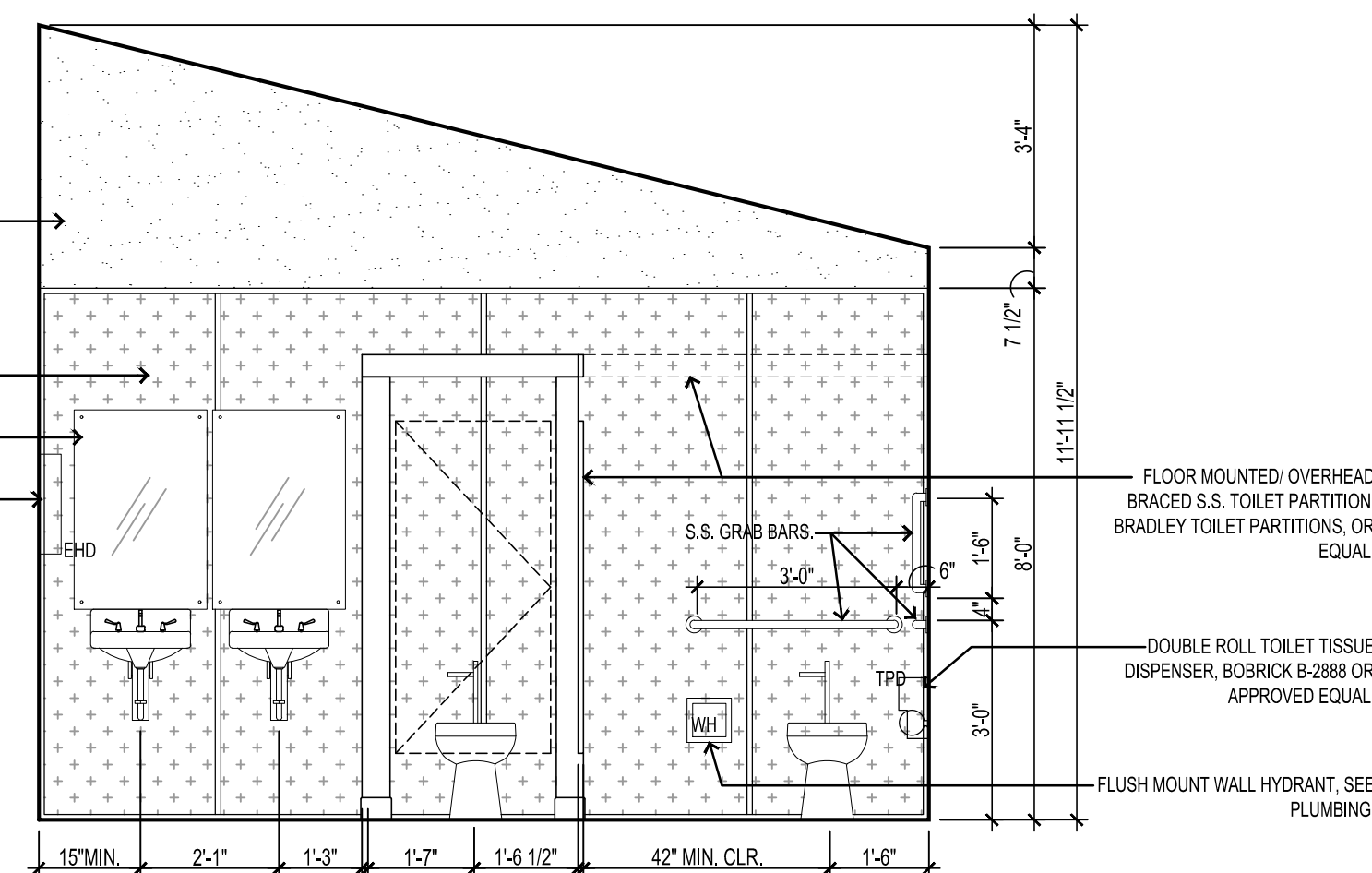
BUILDING SECTION 6
BALLOON PARK ALT.
1/4" = 1'-0"
A201

KEYED NOTES

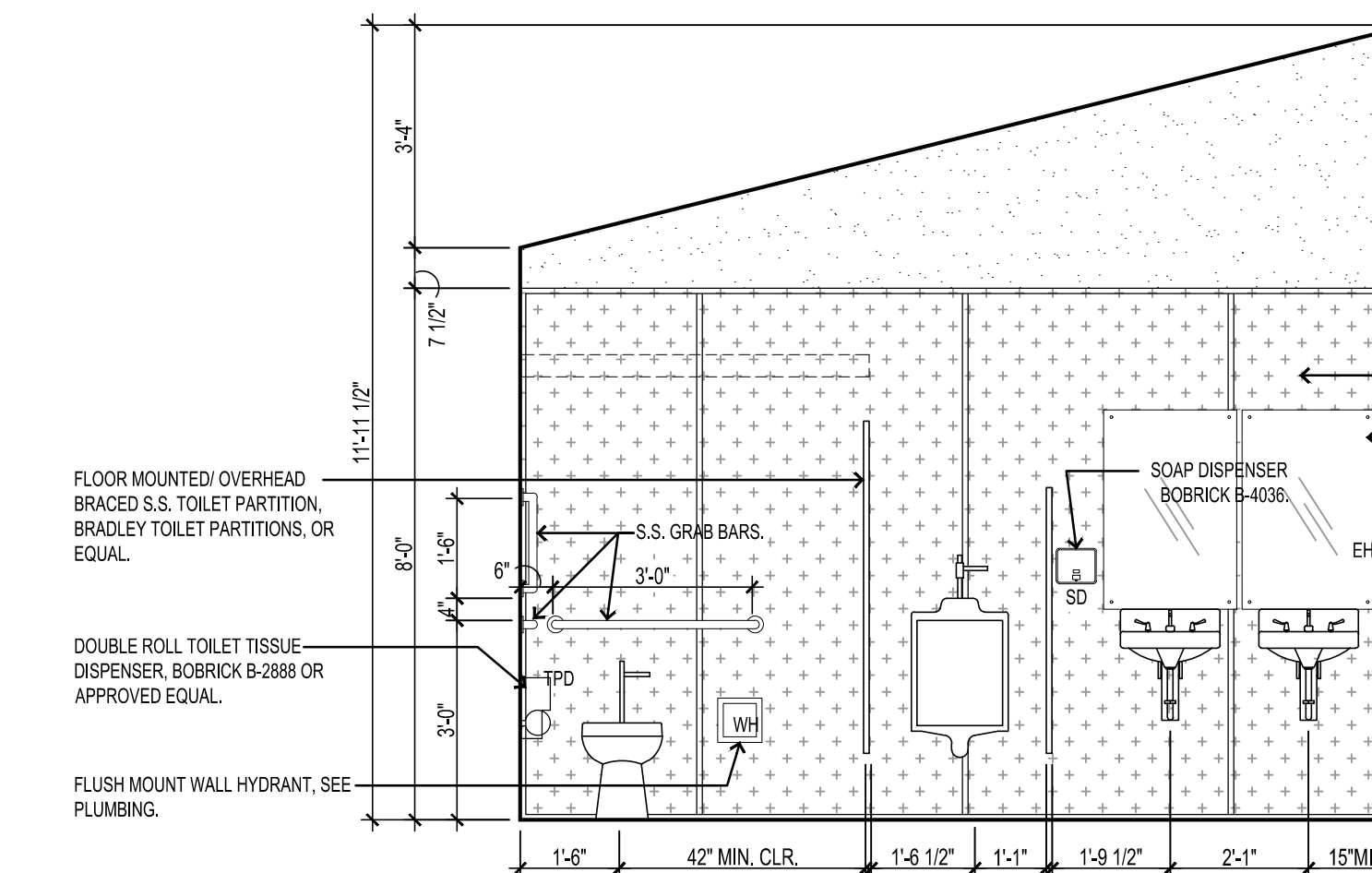
- 22 GA. CORRUGATED METAL ROOF PANEL SYSTEM (BERRIDGE S-DECK OR APPROVED EQUAL). PROVIDE ALL TRIM PIECES AND REQUIRED ACCESSORIES. COLOR TO BE ACRYLIC-COATED GALVALUME.
- 22 GA. CORRUGATED METAL MTL. WALL PANELS, TO MATCH ROOF SYSTEM.
- SPLIT-FACE C.M.U. BLOCK WALL WITH INTEGRAL WATER REPELLENT ADMIXTURE. 8x8x16 COLOR TO BE SELECTED. CMU AS PROVIDED BY UTILITY BLOCK CO. INC OR EQUAL.
- LOUVERED VENT. PAINT COLOR TO MATCH DOORS.
- 8x8x8 FROSTED GLASS BLOCK TO 7'-4" A.F.F.
- H.M. DOOR AND FRAME. SEE DOOR AND FRAME TYPES ON SHEET A100.
- 5/8" GYP. BD. CEILING SYSTEM AS SCHEDULED.
- PAINTED C.M.U. AT R.R. INTERIOR WALL.
- MARLITE STANDARD FIBERGLASS REINFORCED PANELS OR APPROVED EQUAL. OVER 5/8" GYP. BD. ON 2x4 WD. FRAMING. COLOR AS SELECTED BY OWNER/ARCHITECT FROM FULL RANGE OF STANDARD COLORS.
- REINFORCED CONCRETE SLAB, SEALED CONCRETE FINISH.
- REINFORCED CONCRETE FOOTING. SEE STRUCTURAL FOUNDATION PLAN AND DETAILS.
- 4" THICK EXTERIOR CONCRETE WALK.
- 1-1/2" DIA. STL. PIPE SAFETY RAILING, PRIME AND PAINT.
- CONTRACTOR TO PROVIDE "ALL-GENDER" GRAPHIC AT RESTROOM DOORS. SEE DETAIL 8/A200. GRAPHIC COLOR AS SELECTED BY OWNER/ARCHITECT.
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- STL. TUBE STRUCTURE. SEE FRAMING PLAN AND DETAILS.
- REINFORCED CONC. STAIRS. SEE STAIR SECTION.
- 1-1/2" DIA. STL. PIPE HANDRAIL. PAINT FINISH.
- HIDDEN LINE OF PIPE HANDRAIL AT RAMP.
- CONCRETE LANDING AT BOTTOM OF STAIRS.



INTERIOR ELEVATION 7
BALLOON PARK ALT.
3/8" = 1'-0"
A200

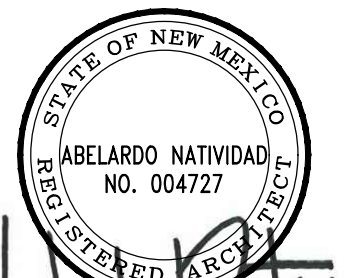


INTERIOR ELEVATION 8
BALLOON PARK ALT.
3/8" = 1'-0"
A200



INTERIOR ELEVATION 9
BALLOON PARK ALT.
3/8" = 1'-0"
A200

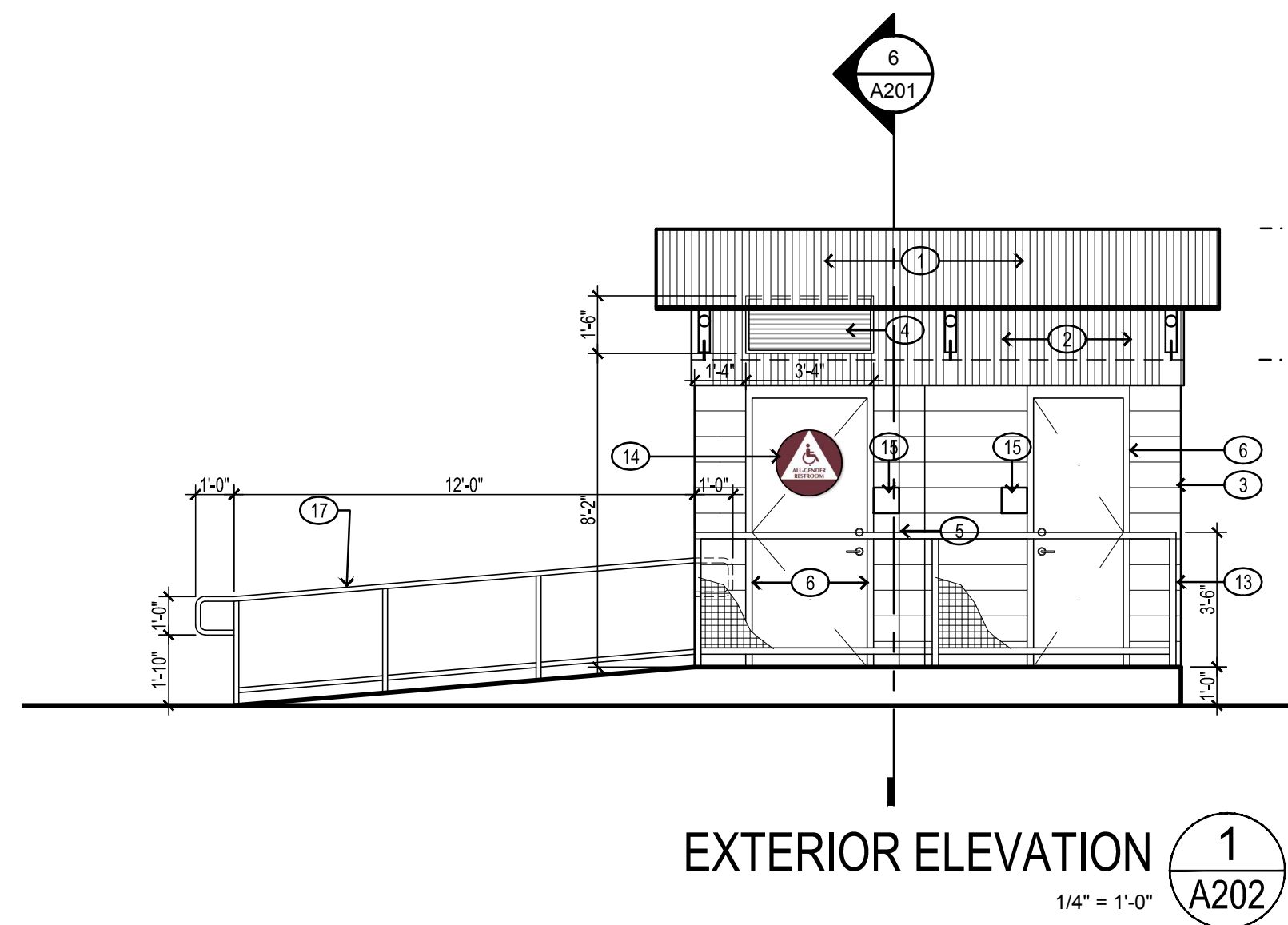
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Layout Name: A201



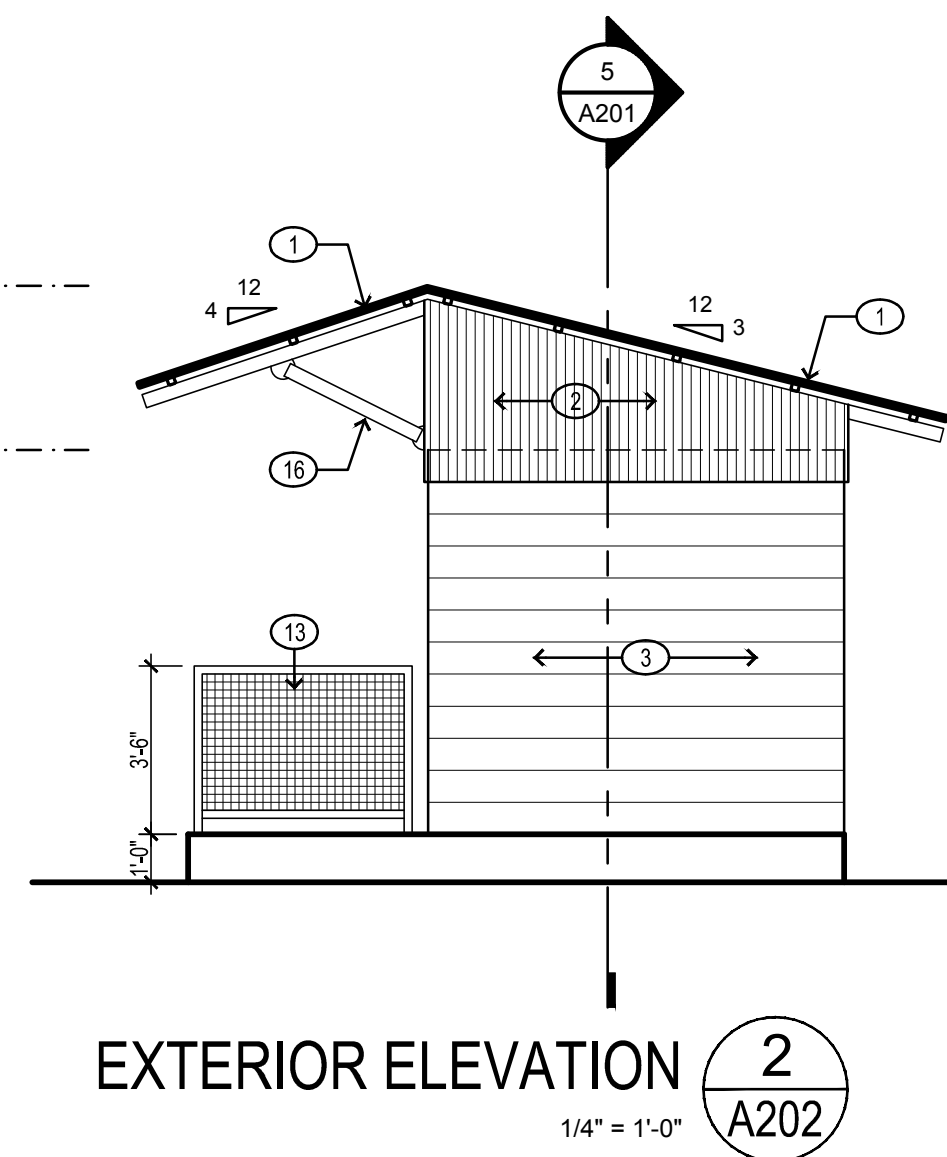
04.15.21

KEYED NOTES

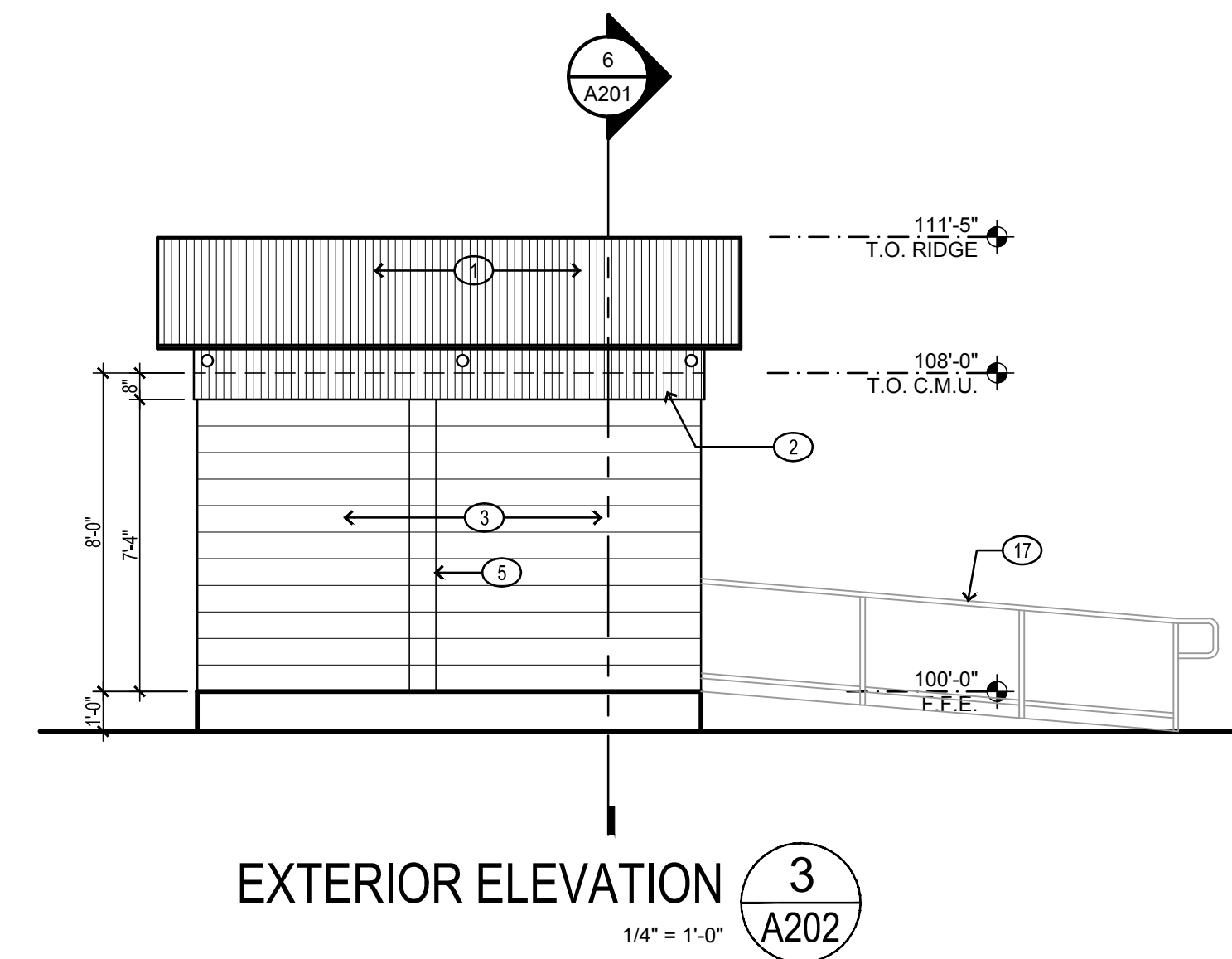
- 22 GA. CORRUGATED METAL ROOF PANEL SYSTEM (BERRIDGE S-DECK OR APPROVED EQUAL). PROVIDE ALL TRIM PIECES AND REQUIRED ACCESSORIES. COLOR TO BE ACRYLIC-COATED GALVALUME.
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- REINFORCED CONCRETE SLAB, SEALED CONCRETE FINISH.
- REINFORCED CONCRETE FOOTING, SEE STRUCTURAL FOUNDATION PLAN AND DETAILS.
- 4" THICK EXTERIOR CONCRETE WALK.
- 2x2 STL. TUBE SAFETY RAILING WITH 2x2 WWF, PRIME AND PAINT. MATCH EXISTING.
- CONTRACTOR TO PROVIDE 'ALL-GENDER' GRAPHIC AT RESTROOM DOORS, SEE DETAIL 8/A200. GRAPHIC COLOR AS SELECTED BY OWNER/ARCHITECT.
- CONTRACTOR IS TO PROVIDE AN 8x8 SMOOTH BLOCK AT LOCATIONS WHERE ROOM SIGNS ARE TO BE MOUNTED, COORDINATE WITH OWNER/ARCHITECT.
- STL. TUBE STRUCTURE, SEE FRAMING PLAN AND DETAILS.
- 1-1/2" DIA. STL. PIPE HAND RAILS, TYP.



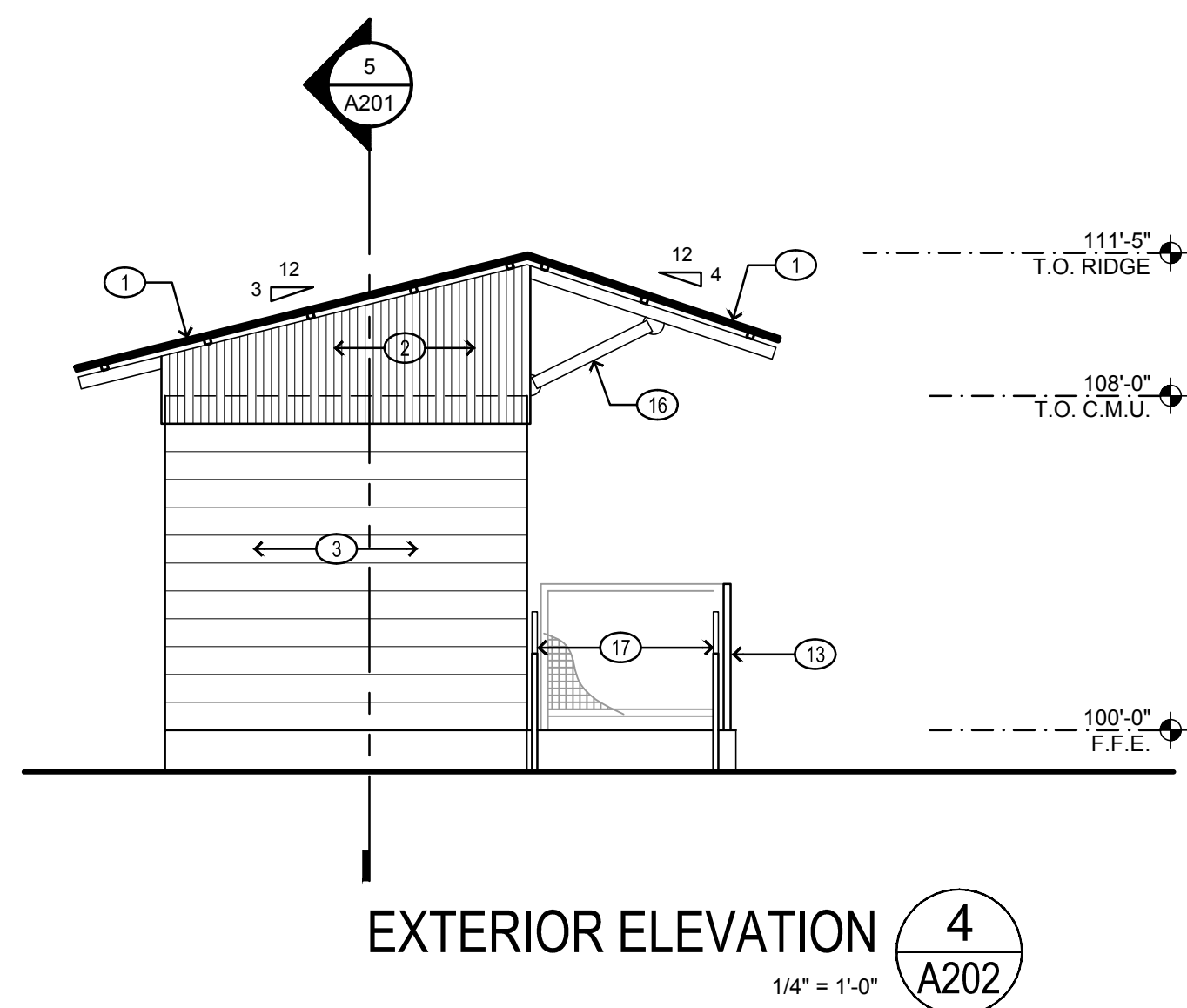
EXTERIOR ELEVATION **1**
1/4" = 1'-0" A202



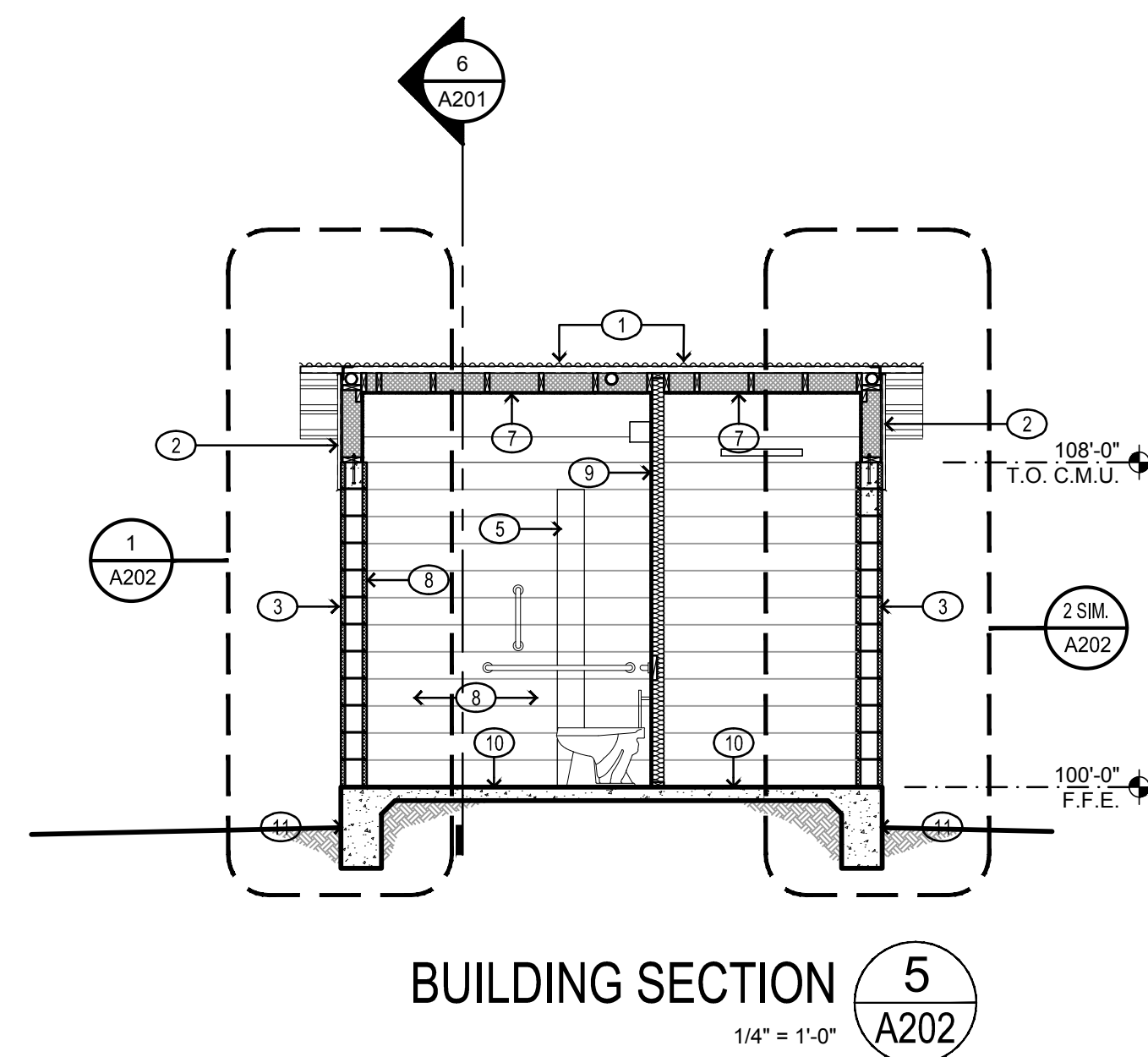
EXTERIOR ELEVATION **2**
1/4" = 1'-0" A202



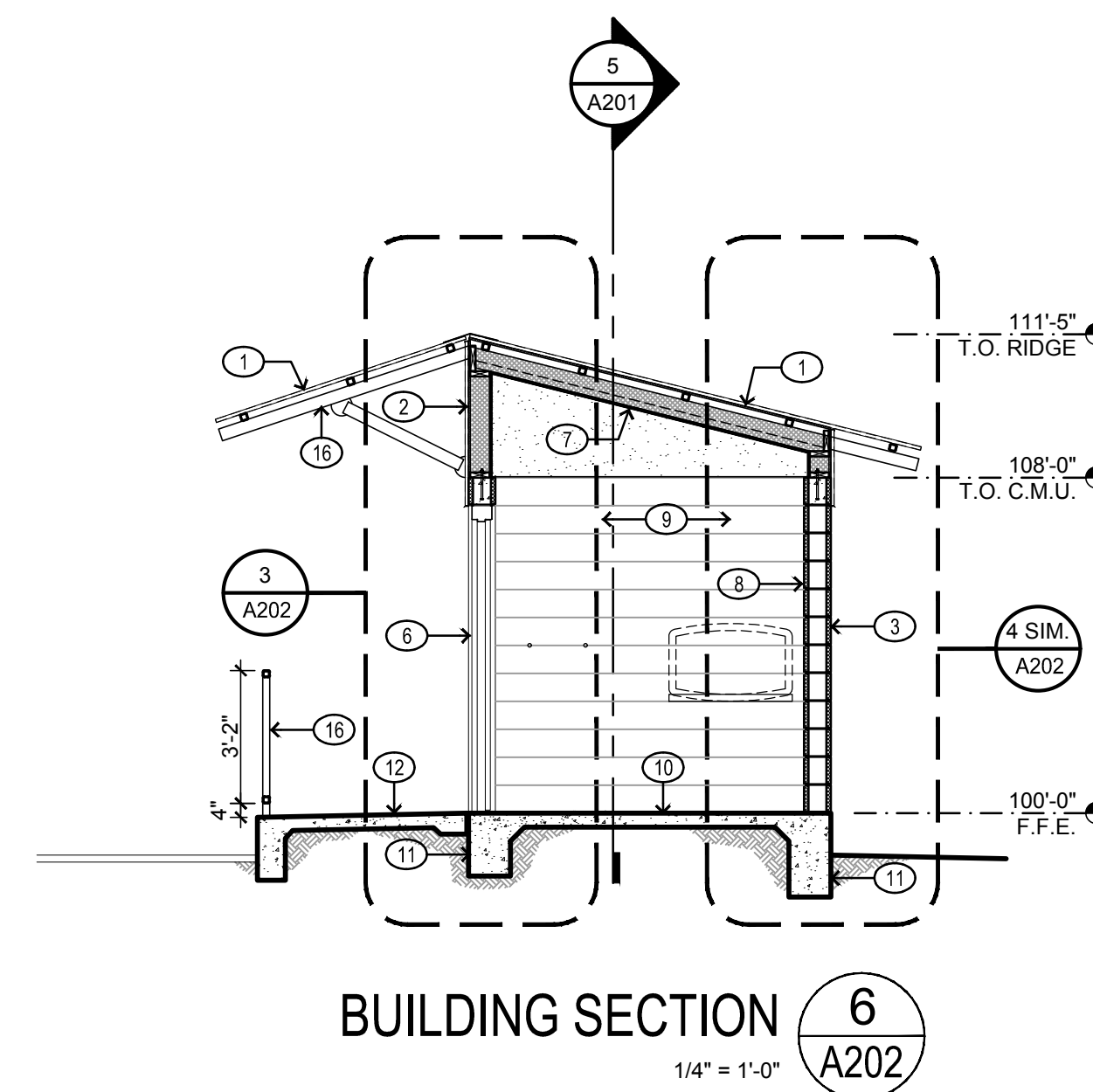
EXTERIOR ELEVATION **3**
1/4" = 1'-0" A202



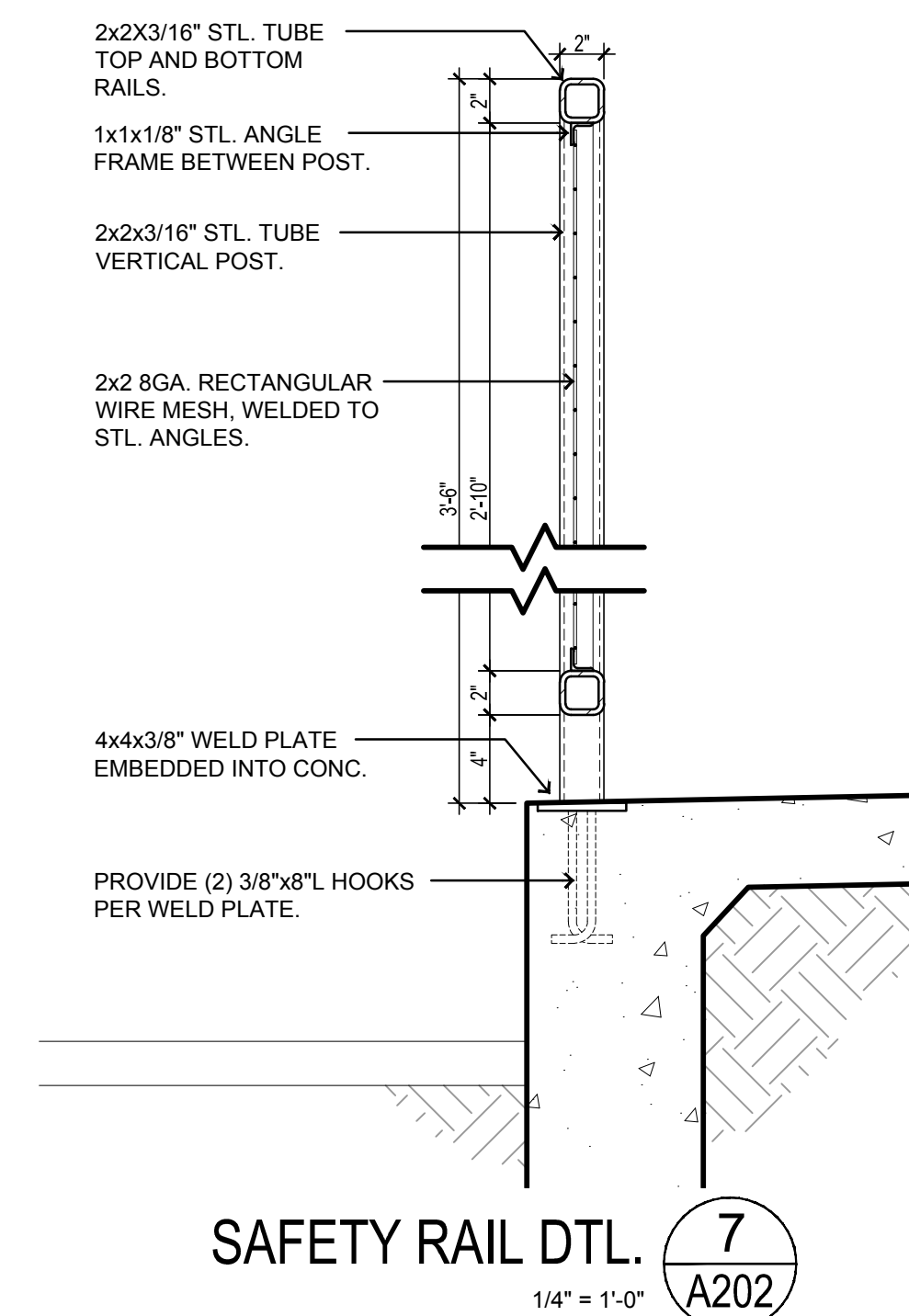
EXTERIOR ELEVATION **4**
1/4" = 1'-0" A202



BUILDING SECTION **5**
1/4" = 1'-0" A202



BUILDING SECTION **6**
1/4" = 1'-0" A202



SAFETY RAIL DTL. **7**
1/4" = 1'-0" A202

Alamogordo
Park Restrooms

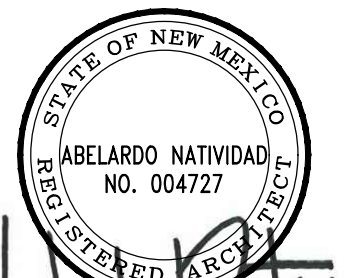
Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION	DATE

Project no: 21.16
Date: April 2021
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ELEVATIONS
& SECTIONS
BID LOT-3
A202

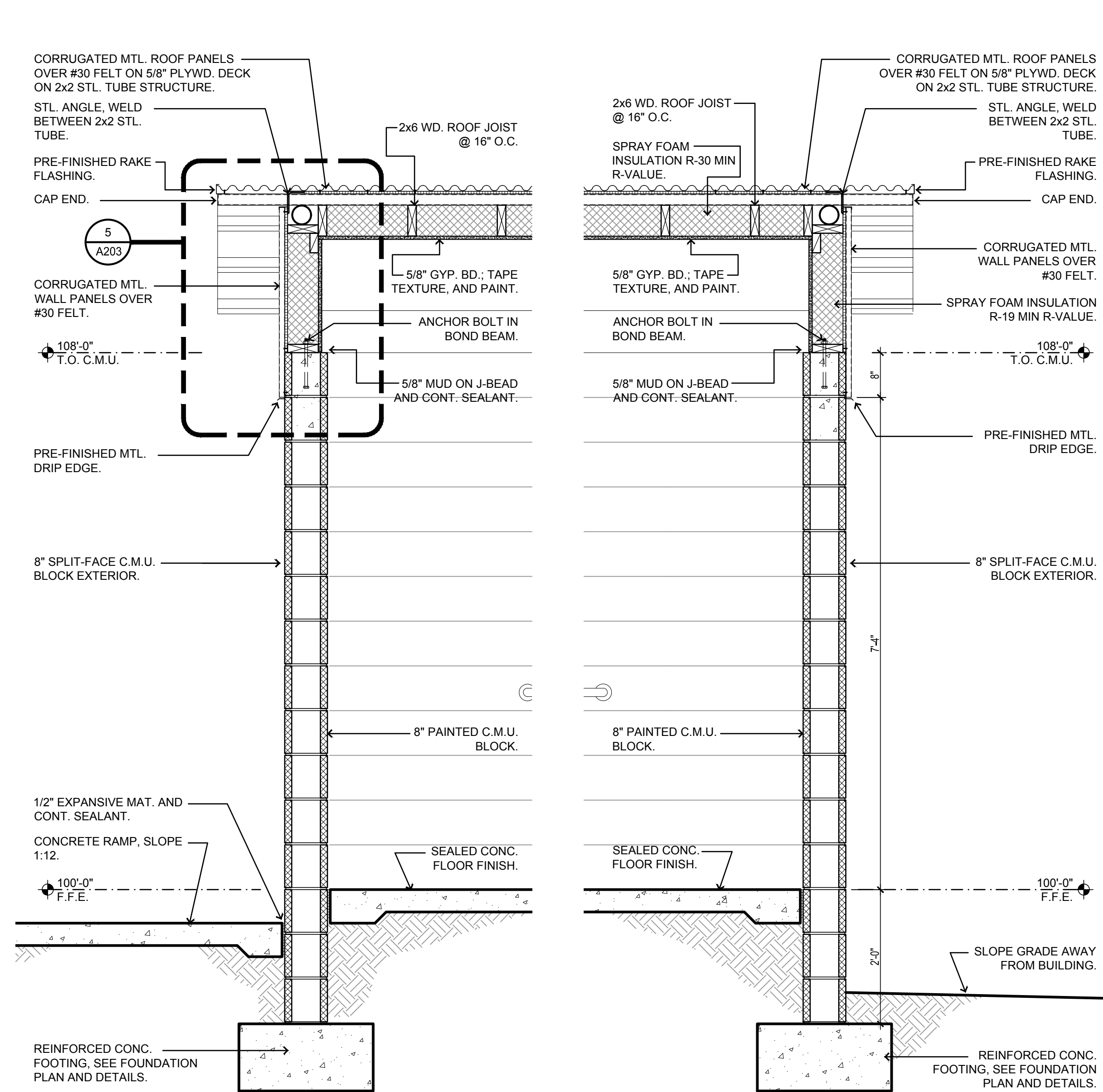


04.15.21

Alamogordo Park Restrooms

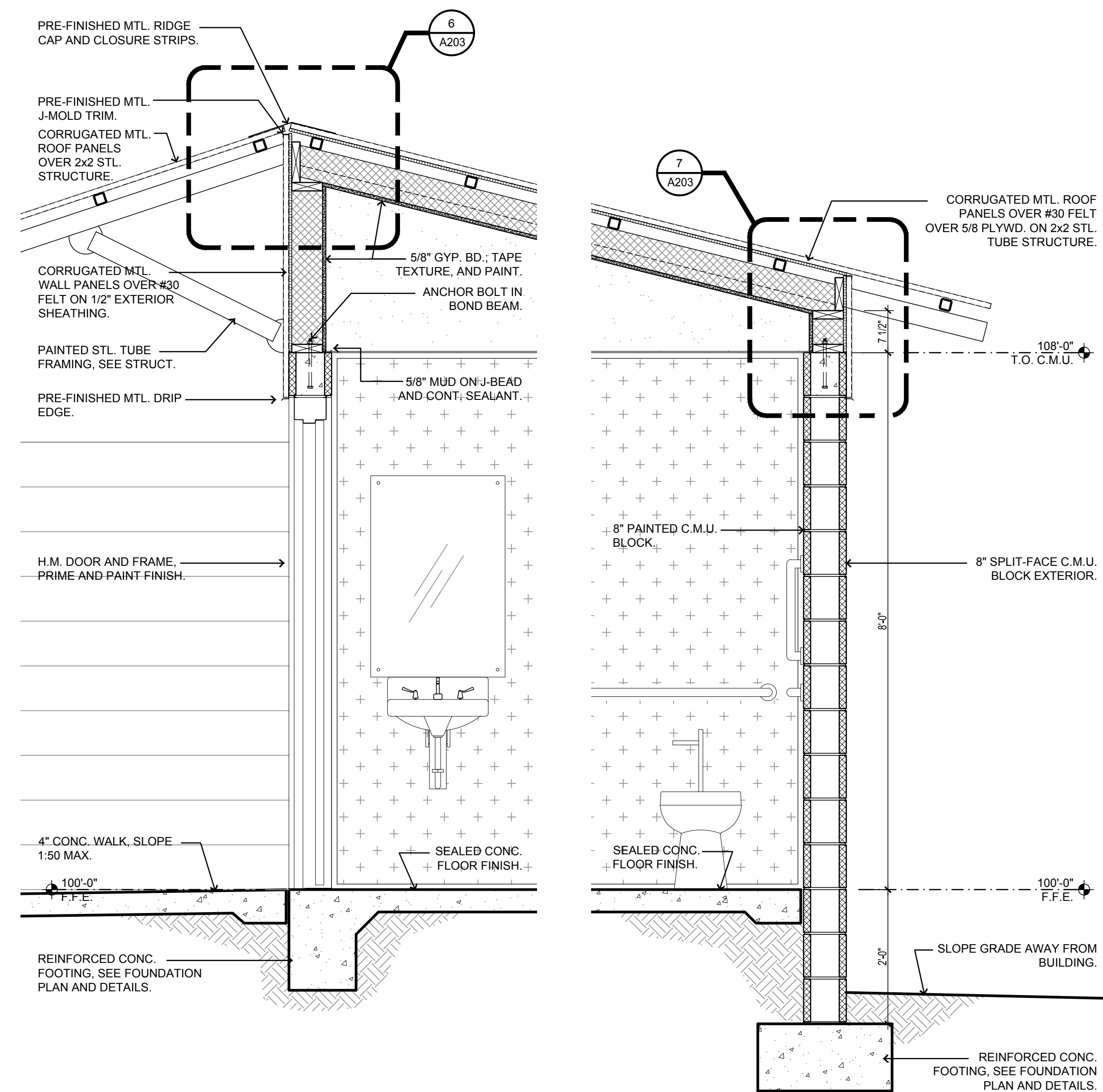
Balloon Fiesta Park
Lavelle Rd.
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Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico



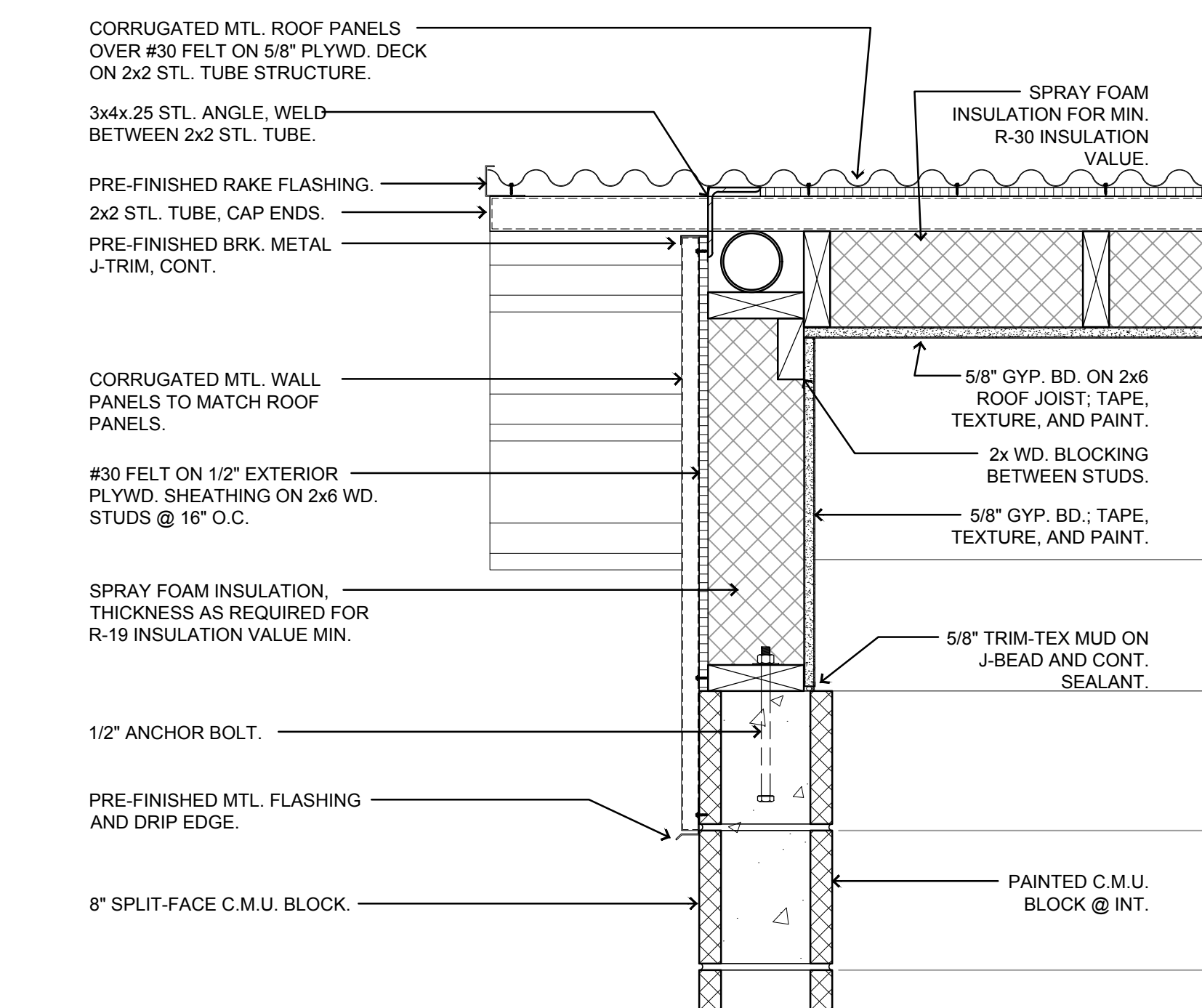
WALL SECTION 1
3/4" = 1'-0" A203

WALL SECTION 2
3/4" = 1'-0" A203

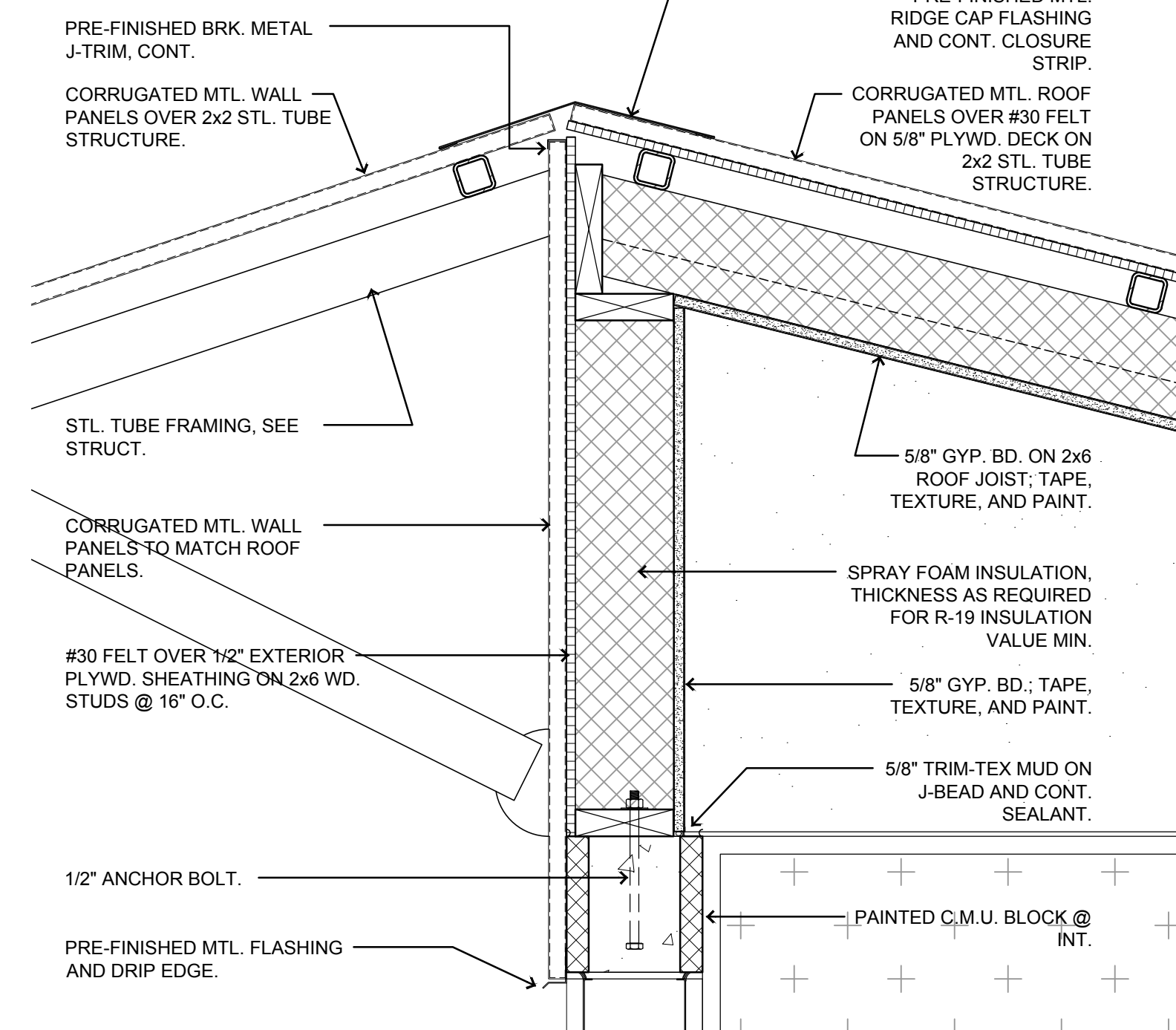


WALL SECTION 3
3/4" = 1'-0" A203

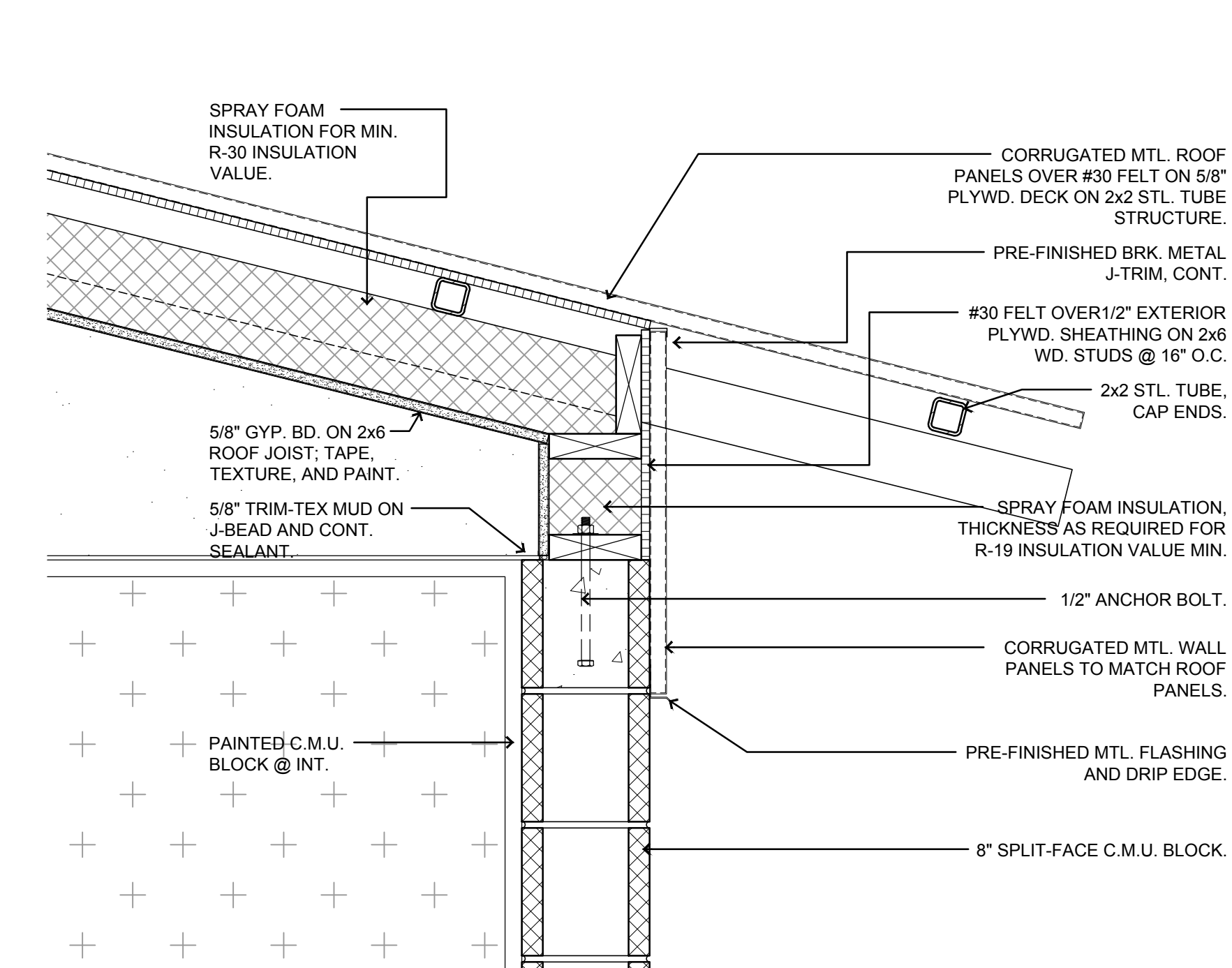
WALL SECTION 4
3/4" = 1'-0" A203



ENLARGED DETAIL 5
1-1/2" = 1'-0" A203



ENLARGED DETAIL 6
1-1/2" = 1'-0" A203



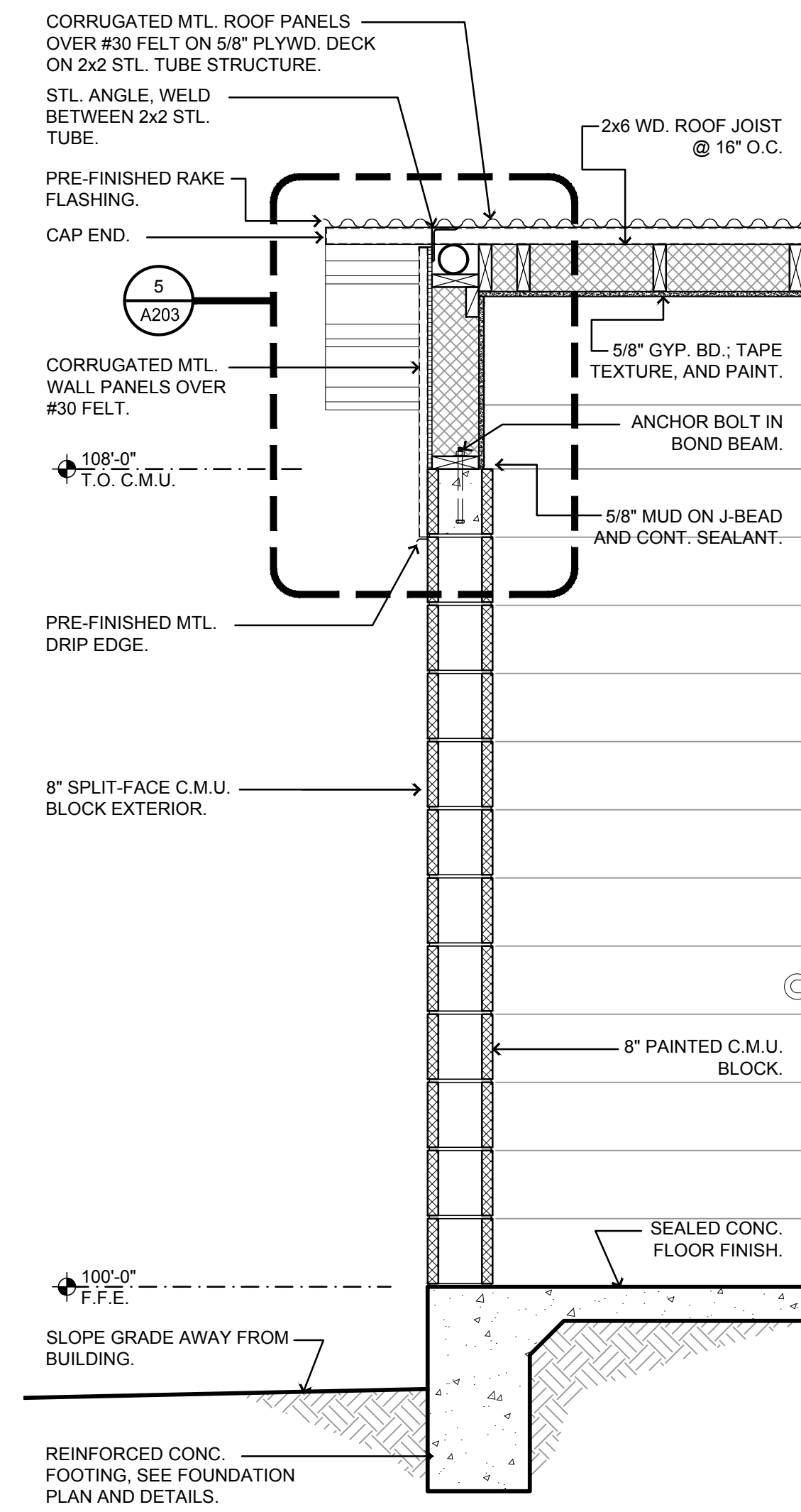
ENLARGED DETAIL 7
1-1/2" = 1'-0" A203

REVISION	DATE

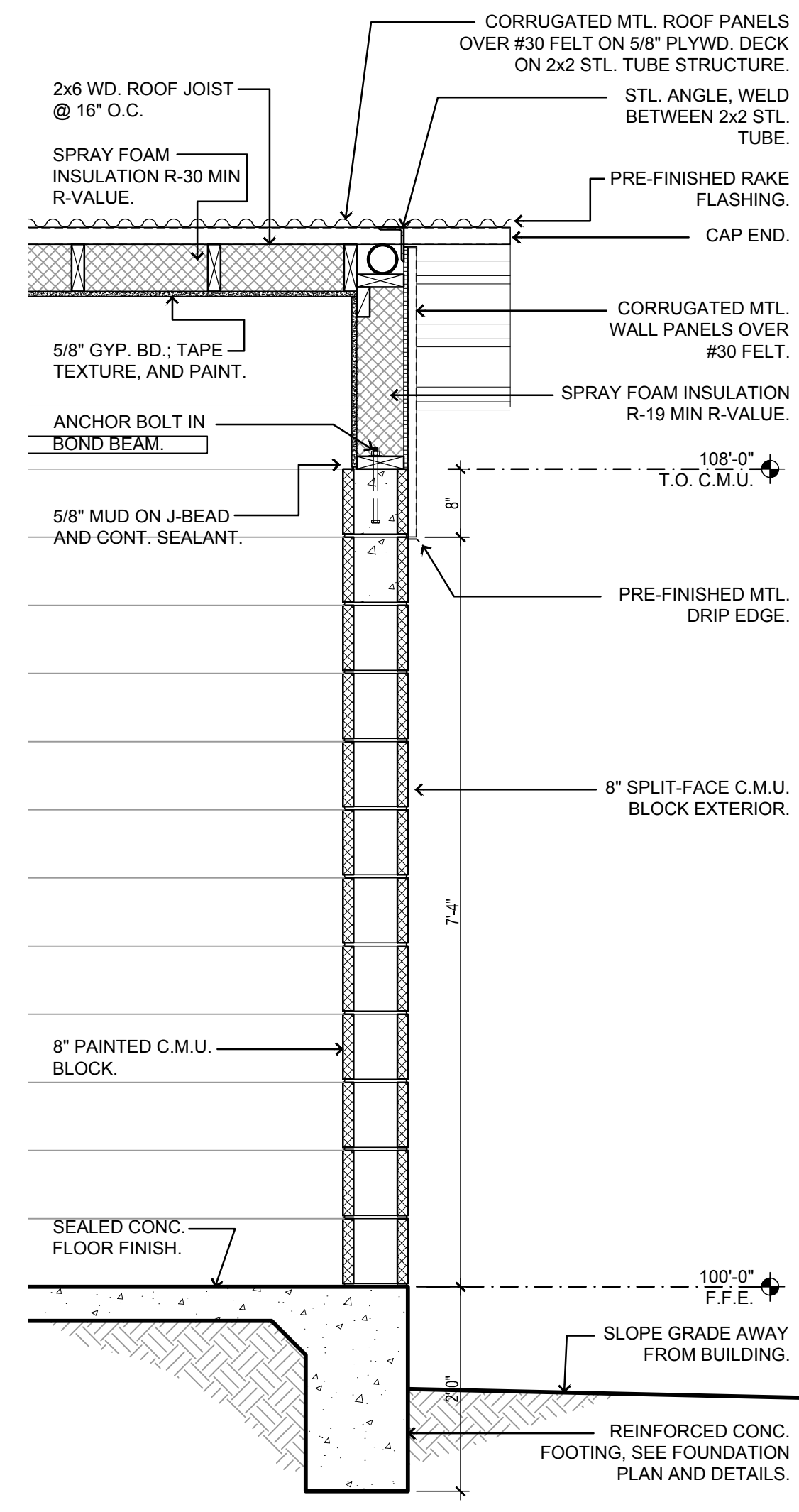
Project no: 21.16
Date: April 2021
Sheet:

WALL SECTIONS & DETAILS

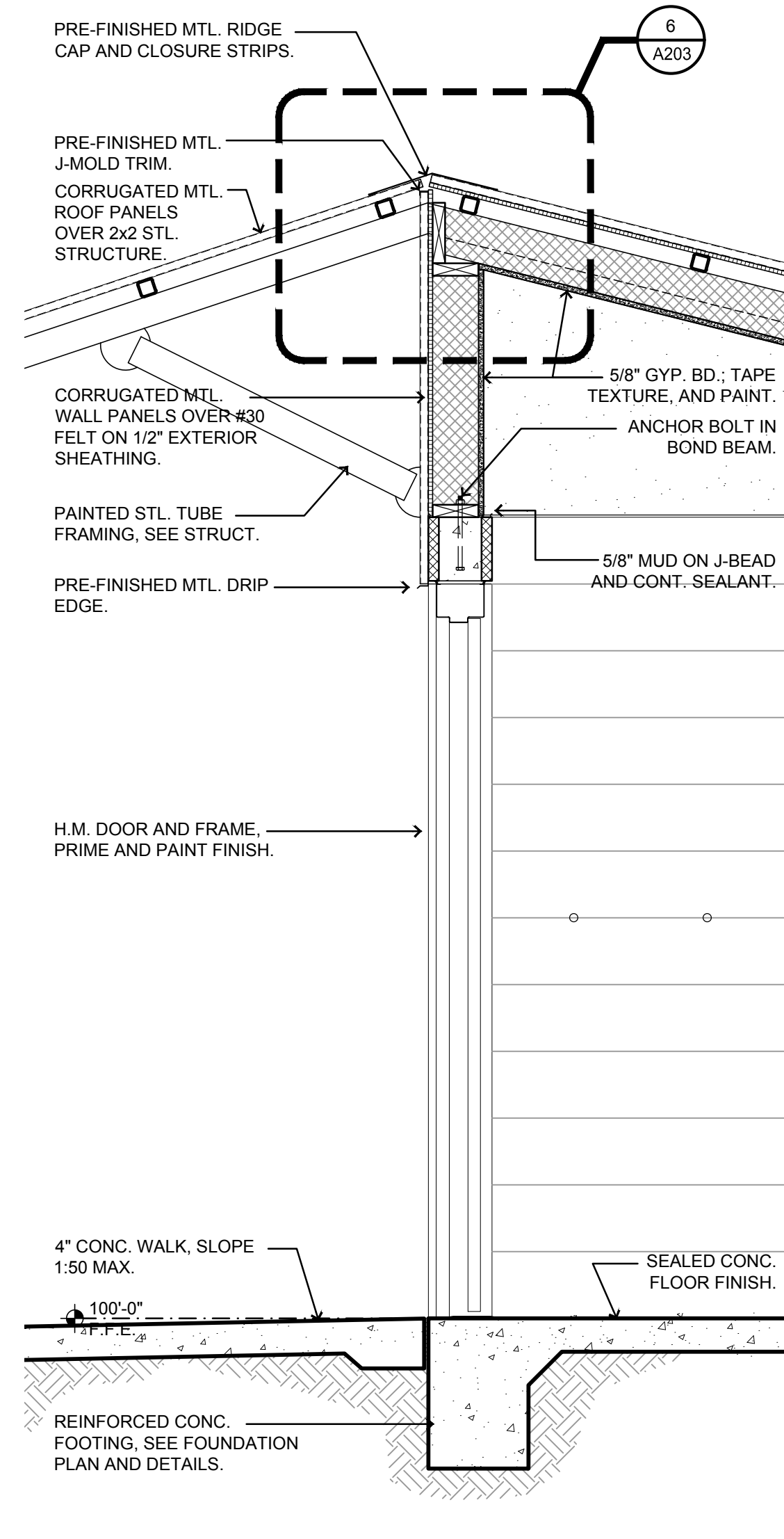
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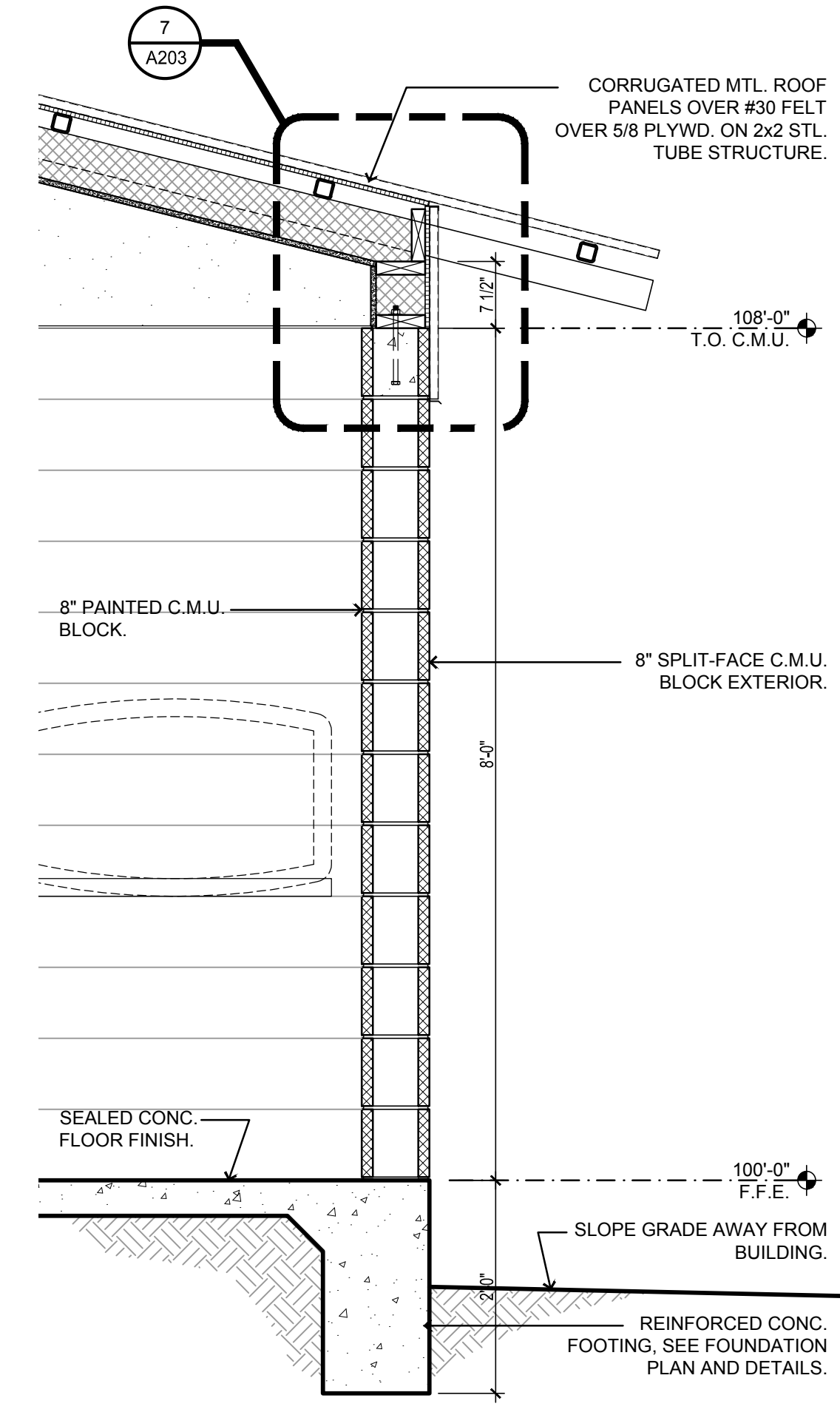
WALL SECTION 1
 3/4" = 1'-0" A203



WALL SECTION 2
 3/4" = 1'-0" A203



WALL SECTION 3
 3/4" = 1'-0" A203



WALL SECTION 4
 3/4" = 1'-0" A203



Alamogordo
 Park Restrooms

Balloon Fiesta Park
 Lavelle Rd.
 Alamogordo, New Mexico

Alameda Park Zoo
 1021 N. White Sands Blvd.
 Alamogordo, New Mexico

REVISION	DATE
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Project no: 21.16
 Date: April 2021
 Sheet:

WALL SECTIONS
 & DETAILS

A204

MECHANICAL SYMBOLS AND ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

GENERAL DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	ROUND DUCT SECTION
	12" DIA. ROUND DUCT
	SUPPLY SECTION, POSITIVE PRESS.
	EXH., RET., O.A., DUCT SECTION NEGATIVE PRES.
	DUCTWORK, FIRST NO. IS VISIBLE DIM.
	FLEXIBLE CONNECTION (DUCT)
	FLEXIBLE DUCT
	BRANCH DUCT WITH VOLUME DAMPER
	SIDEWALL REGISTER
	VANED ELBOW (PROVIDE ALL SQUARE ELBOWS W/VANES EVEN IF SYMBOL IS MISSING).
	DAMPER, TYPE INDICATED (OBD, PBD, FD, BD)
	WALL LOUVER
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST GRILLE
	LINEAR SUPPLY AIR DEVICE
	LINEAR AIR RETURN DEVICE

DRAWING SYMBOLS

SYMBOL	DESCRIPTION
	EQUIPMENT MARK NUMBER - 5-TON, CU-1
	KEYED NOTE 2
	TYPE 'A' AIR DEVICE, 150 CFM W/ 60 NECK. WHEN NOT INDICATED ON DRAWING REFER TO SCHEDULE

HEATING PIPING SYMBOLS

SYMBOL	DESCRIPTION
	HIGH PRESSURE STEAM CONDENSATE
	LOW PRESSURE STEAM CONDENSATE
	STEAM SUPPLY (PRESS. AS NOTED)
	PUMPED CONDENSATE DRAIN
	HOT WATER RETURN
	HOT WATER SUPPLY
	BOILER FEED WATER
	THERMOSTATIC PUMP
	FLOAT & THERMOSTATIC TRAP

AIR CONDITIONING

SYMBOL	DESCRIPTION
	CHILLED/HEATING WATER RETURN
	CHILLED/HEATING WATER SUPPLY
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	REFRIGERANT DISCHARGE
	MAKE-UP WATER
	CONDENSATE DRAIN
	PUMPED CONDENSATE DRAIN

CONTROLS

SYMBOL	DESCRIPTION
	THERMOSTAT SERVING ZONE X
	TEMPERATURE SENSOR SERVING ZONE X
	MISC. CONTROL SERVING ZONE X REFER TO KEYED NOTES FOR MORE INFORMATION

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
ABV	ABOVE	MAX	MAXIMUM
AC	ABOVE CEILING	MD	MANUAL DAMPER
A/C	AIR CONDITIONED	MECH	MECHANICAL
ACCH	AIR COOLED CHILLER	MIN	MINIMUM
AD	ACCESS DOOR	MS	MOTOR STARTER
AF	AIR FOIL	NA	NOT APPLICABLE
AFF	ABOVE FINISHED FLOOR	NC	NORMALLY CLOSED
AFMS	AIR FLOW MEASURING STATION	NIC	NOT IN CONTRACT
AHU	AIR HANDLING UNIT	NO	NORMALLY OPEN
AMCA	AIR MOVING AND CONDITIONING ASSOCIATION INC.	NTS	NOT TO SCALE
AP	ACCESS PANEL	OA	OUTSIDE AIR
APPROX	APPROXIMATE	OAH	OUTSIDE AIR INTAKE HOOD
ARCH	ARCHITECTURAL	OBD	OPPOSED BLADE DAMPER
ARI	AIR CONDITIONING REFRIGERATION INSTITUTE	OC	ON CENTER
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE	PBD	PARALLEL BLADE DAMPER
AS	AIR SEPARATOR	PCHP	PRIMARY CHILLED WATER PUMP
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERING	PRESS	PRESSURE REDUCING VALVE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	PSIG	POUNDS PER SQUARE INCH (GAUGE)
AV	AUTOMATIC AIR VENT ASSEMBLY	PHL	PRESSURE HIGH LIMIT
B	BOILER	R-22	REFRIGERANT (TYPE AS NOTED)
BD	BACKDRAFT DAMPER	RA	RETURN AIR
BHP	BRAKE HORSEPOWER	RE	REFER TO: DETAIL 4, SHEET M7.01
BI	BACKWARD INCLINED BUILDING	RET	RETURN
BLDG	BUILDING	RG	RETURN GRILLE
BOD	BOTTOM OF DUCT	RH	RELATIVE HUMIDITY
BOP	BOTTOM OF PIPE	RHD	RELIEF HOOD
BSMT	BASMENT	RPM	ROOM
BTU	BRITISH THERMAL UNIT	RTU	ROOF TOP UNIT
CDP	CONDENSATE DRAIN PUMP	SA	SUPPLY AIR
CFM	CUBIC FEET PER MINUTE	SCH	SCHEDULE
CHP	CHILLED WATER PUMP	SCHP	SECONDARY CHILLED WATER PUMP
CLG	CEILING	SD	SMOKE DAMPER
CMP	CONDENSER WATER PUMP	SEC	SECOND
CO	CLEANOUT	SF	SUPPLY FAN
COND	CONDENSATE CONNECTION	STD	STANDARD
CONN	CONTINUATION	STL	STEEL
CONT	CONTROLLABLE PITCH	SW	SWITCH
CP	COOLING TOWER	TEMP	TEMPERATURE
CT	CONDENSING UNIT	THL	TEMPERATURE HIGH LIMIT
CU	COLD WATER	TLL	TEMPERATURE LOW LIMIT
CW	CENTER LINE	TSTAT	THERMOSTAT
ε	CEILING LINE	TU	TERMINAL UNIT
D	DRAIN	TVV	THERMOSTATIC EXPANSION VALVE
DB	DRY BULB	TYP	TYPICAL
DCP	DATA COLLECTION PANEL	UF	UNDER FLOOR
DC	DOOR GRILLE	UH	UNIT HEATER
DIFF	DIFFUSER	UL	UNDERWRITER'S LABORATORIES
DN	DOWN	V-12	CONTROL VALVE NUMBER
DWG	DRAWING	VAV	VARIABLE AIR VOLUME
DX	DIRECT EXPANSION	VB	VALVE BOX
EA	EACH	VD	VOLUME DAMPER
EAT	ENTERING AIR TEMPERATURE	VEL	VELOCITY
EDH	ELECTRIC DUCT HEATER	VENT	VENTILATE
EG	EXHAUST GRILLE	VF	VENTILATION FAN
EF	EXHAUST FAN	VFD	VARIABLE FREQUENCY DRIVE
ELEC	ELECTRICAL	VOL	VOLUME
ELEV	ELEVATION	VOLT	VOLTAGE
ENT	ENTERING	W	WIDE, WIDTH
EQUIP	EQUIPMENT	W/	WITH
ER	EXHAUST REGISTER	W/O	WITHOUT
ESP	EXTERNAL STATIC PRESSURE	WB	WET BULB
ET	EXPANSION/COMPRESSION TANK		
EWT	ENTERING WATER TEMPERATURE		
EXH	EXHAUST		
EXIST	EXISTING		
F	DEGREES FAHRENHEIT		
FC	FAN COIL		
FD	FIRE DAMPER		
FLEX	FLEXIBLE		
FLG	FLANGE		
FLR	FLOOR		
FM	FACTORY MUTUAL		
FO	FLAT OVAL DUCT		
FPM	FEET PER MINUTE		
FT	FEET, FOOT		
FS	FLOW SWITCH		
FSD	FIRE SMOKE DAMPER		
GAL	GALLON		
GALV	GALVANIZED		
OPM	GALLONS PER MINUTE		
HB	HOSE BIBB		
HP	HORSE POWER		
HR	HOUR		
H	HIGH, HEIGHT		
HVAC	HEATING/VENTILATING/AIR CONDITIONING		
HWP	HOT WATER PUMP		
HZ	HERTZ		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION (FLOW LINE)		
IH	INTAKE HOOD		
IN	INCHES		
INSUL	INSULATION		
IN WG	INCHES OF WATER		
KW	KILOWATT(S)		
L	LONG, LENGTH		
LAT	LEAVING AIR TEMPERATURE		
LVR	LOUVER		

MECHANICAL GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND STANDARDS. CRAFTSMANSHIP AND MATERIAL SHALL BE OF THE HIGHEST QUALITY.
- THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS FULLY PRIOR TO THE SUBMITTAL PHASE OF THE PROJECT. CONFLICTS WITHIN AND BETWEEN THE CONTRACT DOCUMENTS SHALL BE NOTED IN WRITING TO THE ENGINEER PRIOR TO SUBMITTING DATA SHEETS FOR REVIEW.
- NOTE: FOR THE PURPOSE OF CLARITY AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION TO, AND COOPERATE WITH, THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR THE COMPLETION AND COORDINATION OF THE COMPLETE PROJECT. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE PRIME CONTRACTOR, ENGINEER AND, AS NECESSARY, THE OWNER.
- THE GENERAL CONTRACTOR SHALL MAINTAIN, ON A DAILY BASIS AT THE PROJECT SITE, A COMPLETE SET OF RECORD DRAWINGS REFLECTING THE PRECISE LOCATION OF CONCEALED PIPING, VALVES, PIPE RE-ROUTES, AND ALL CHANGES OR DEVIATIONS IN THE MECHANICAL WORK FROM THAT SHOWN ON THE CONTRACT DRAWINGS.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH THEY FURNISH AND INSTALL.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR, AT NO COST TO TENANT, FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. WARRANTIES SHALL BEGIN ON THE DATE OF SUBSTANTIAL COMPLETION.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES FOR ALL REQUIRED OPENINGS AND PENETRATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOF SHALL BE CONSTRUCTED INTO THE STRUCTURE WITH THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 1/2" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT AMPLE BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS AS REQUIRED FOR POWER.
- ROOF CURBS FOR EXHAUST FANS SHALL BE PER DETAILS SECTION, AND FURNISHED WITH THE FAN BASE, HOOD, AND FAN PACKAGE. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
- ROOF CURBS FOR ROOF TOP UNITS SHALL BE FACTORY FABRICATED OF GALVANIZED STEEL CONSTRUCTION, AND FURNISHED WITH THE HVAC EQUIPMENT PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FIELD ASSEMBLE THE ROOF CURBS, FLASH AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED.
- ALL OUTDOOR AIR INTAKES BY MECHANICAL EQUIPMENT SHALL HAVE A MINIMUM 10'-0" HORIZONTAL CLEARANCE FROM THE DISCHARGE OF ANY EXHAUST FAN, COMBUSTION EXHAUST OR PLUMBING VENT.
- GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE AND ROOF HATCH OPENING ARE LOCATED WITHIN 10' OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION AND FINISH OF ALL SUPPLY AND RETURN AIR DEVICES WITH THE ARCHITECT. ALL INTERIOR FACES OF DUCTWORK BEHIND RETURN AIR GRILLES SHALL BE PAINTED FLAT BLACK FOR LINE OF SIGHT.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHT FIXTURES AS WELL AS SPRINKLER PIPING AND HEADS (WHERE INCLUDED IN THE PROJECT) FOR A COMPLETE INSTALLATION. WHERE THE ALTERATION OF DUCT SIZES ARE NECESSARY, MAINTAIN CROSS-SECTIONAL AREAS.
- SUPPLY, RETURN AND RESTROOM EXHAUST DUCT CONSTRUCTION SHALL BE GALVANIZED STEEL. ANY REQUIRED GAUGES, SWAY BRACING AND SUSPENSION SHALL CONFORM TO SMACNA STANDARDS. SEAL ALL SEAMS AND JOINTS AIR AND WATER TIGHT. FLEXIBLE ALUMINUM DUCTWORK OR FIBERGLASS DUCTBOARD CAN BE ALLOWED WITH ENGINEER'S PRIOR APPROVAL.
- ALL RECTANGULAR, ROUND, AND FLEXIBLE DUCTWORK SHALL BE SIZED WITH CLEAR INSIDE DIMENSIONS AS SHOWN ON THESE DRAWINGS, AND SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA STANDARDS. ALL JOINTS, SEAMS, AND CONNECTIONS MUST BE SECURELY FASTENED & SEALED.
- ALL HVAC SUPPLY AND RETURN CONCEALED DUCTWORK TO BE EXTERNALLY WRAPPED AND SEALED WITH MINIMUM R-5.0, 2" INSULATION WITH VAPOR BARRIER PER APPLICABLE MECHANICAL CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS. INSULATION SHALL HAVE MAXIMUM RATINGS OF 25 FLAME SPREAD, 50 SMOKE DEVELOPED.
- AIR DEVICE SIZES SHOWN ON SCHEDULES ARE NECK SIZES.
- BOTTOM OF DUCT ELEVATION INDICATED ON THE DRAWING INDICATES THE APPROXIMATE HEIGHT ABOVE FINISHED FLOOR LEVEL TO THE UNDERSIDE OF THE DUCT. THIS INFORMATION IS PROVIDED AS AN AID TO COORDINATION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON SITE.
- KEEP DUCTWORK AND PIPING INTERIOR CLEAN AND FREE OF DEBRIS THROUGHOUT THE PROJECT. CAP ALL PIPING AND DUCTWORK EXPOSED TO THE ELEMENTS.
- DO NOT COVER ANY MECHANICAL OR PLUMBING WORK IN WALLS, ABOVE CEILINGS, ETC. PRIOR TO REQUESTING OBSERVATION BY THE ENGINEER. ALL WORK COVERED WITHOUT OBSERVATION BY THE ENGINEER SHALL BE UNCOVERED FOR OBSERVATION.
- PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE DUCT/ PIPING CONNECTIONS TO ALL MOVING MACHINERY NOT INTERNALLY ISOLATED.
- ALL MEDIUM PRESSURE DUCTWORK SHALL BE TESTED IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. 10% OF LOW PRESSURE DUCT SYSTEM SHALL BE TESTED. IF LEAKAGE TEST RESULTS EXCEED THE MAX. ALLOWABLE RATE, THE ENTIRE DUCT SYSTEMS SHALL BE TESTED AND DUCT LEAKAGE SHALL BE CORRECTED UNTIL SATISFACTORY RATES ARE OBTAINED.
- ALL PENETRATIONS IN FIRE RATED WALL ASSEMBLIES SHALL BE SEALED WITH UL LISTED FIRE STOPPING MATERIAL.
- MECHANICAL CONTRACTOR SHALL PROVIDE FIRE DAMPERS AT ANY LOCATION WHERE DUCTWORK PASSES THROUGH A FIRE RATED WALL ASSEMBLY IN ACCORDANCE WITH IFC.
- PER APPLICABLE MECHANICAL CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS WHEN REQUIRED, EACH SINGLE SYSTEM PROVIDING HEATING OR COOLING AIR IN EXCESS OF 2000 CUBIC FEET PER MINUTE SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. AUTOMATIC SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT DEVICES WHICH WILL DETECT PRODUCTS OF COMBUSTION OTHER THAN HEAT, AND WHICH COMPLY WITH THE IBC, SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATING VELOCITIES, PRESSURES, TEMPERATURES AND HUMIDITIES OF THE SYSTEM WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING. SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS.
- ROOF TOP UNITS SHALL BE SET TO RUN IN "FAN CONTINUOUS" MODE DURING OCCUPIED HOURS. DURING NIGHT SET-BACK HOURS, THE ROOF TOP UNITS SHALL RUN IN "FAN AUTO" MODE.
- UNLESS NOTED OTHERWISE, ALL CAPACITIES INDICATED ARE AT SITE CONDITIONS. ALL EQUIPMENT SHALL BE ADJUSTED, MODIFIED AND ORDERED TO ACCOMMODATE SITE CONDITIONS.
- INSTALL EQUIPMENT TO AVOID SOUND OR NOISE TRANSMISSION TO OCCUPIED SPACES.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS LISTED ON THE DRAWINGS AND SPECIFICATIONS INCLUDING THOSE LISTED UNDER THE ENERGY COMPLIANCE REPORT. ALL EQUIPMENT INSTALLED SHALL BE PROVIDED WITH THE MANUFACTURER'S RECOMMENDED MAINTENANCE AND OPERATING CLEARANCES.
- MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL 4" HIGH BLACK OVER WHITE LAMINATE NAMEPLATE WITH 2" LETTERS VISIBLE ADJACENT TO DISCONNECT SWITCH FOR ALL MECHANICAL EQUIPMENT.
- ALL CONDUITS, DISCONNECT SWITCHES AND FINAL CONNECTIONS FOR LINE VOLTAGE WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. LOW VOLTAGE CONDUIT, WIRING AND FINAL CONNECTIONS BY MECHANICAL CONTRACTOR.
- MAINTAIN MINIMUM CLEARANCES IN FRONT OF ALL CONTROL AND ELECTRIC PANELS ON EQUIPMENT SUCH AS FANS, AIR TERMINAL UNITS, ETC. IN ACCORDANCE WITH THE FOLLOWING: 120 V = 36", 208 V = 42", 480 V = 48". CLEARANCE MAY BE MEASURED THROUGH REMOVABLE CEILING GRID OR ACCESS PANEL, WHERE FACTORY MOUNTED PANELS DO NOT ALLOW ADEQUATE CLEARANCE. RELOCATE AND REMOUNT AS REQUIRED. ALL FACTORY WARRANTIES SHALL BE MAINTAINED.
- REFRIGERANT LINES & DUCTS IN FINISH ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR INSTALLED ABOVE SUSPENDED CEILING UNLESS NOTED OTHERWISE.
- CONTRACTOR TO PROVIDE ALL REQUIRED CONDENSATE LINES FOR ALL EQUIPMENT, REFER TO PLUMBING PLANS.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING THE AIR FILTERS AT THE ROOF TOP UNITS WITH AS PER MANUFACTURER RECOMMENDATIONS AT THE COMPLETION OF CONSTRUCTION AND PRIOR TO AIR BALANCE.
- TEST, ADJUST AND BALANCE ALL AIR AND WATER SYSTEMS AFTER INSTALLATION IS COMPLETE. SUBMIT REPORTS TO ENGINEER FOR REVIEW AND APPROVAL.
- TURN OVER ALL EQUIPMENT AND MATERIAL OWNING, OPERATING AND MAINTENANCE (OM) MANUALS TO OWNER AFTER INSTALLATION IS COMPLETE.
- CONTRACTOR SHALL HAVE A THIRD PARTY CERTIFIED TEST AND BALANCE REPORT PERFORMED AT COMPLETION OF PROJECT. THIRD PARTY TAB CONTRACTOR TO BE SELECTED BY OWNER. ANY DIFFERENCES ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- MECHANICAL CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF PROJECT TURNOVER.



08-31-21

PLUMBING SYMBOLS AND ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

GENERAL PIPING SYMBOLS

SYMBOL	DESCRIPTION
	90 DEGREE ELBOW
	FLANGE CONNECTION
	CAP
	BLIND FLANGE
	PLUMBING FIXTURE & DESIGNATION SEE FIXTURE CONNECTION SCHEDULE
	PLAN/DETAIL NUMBER SHEET NUMBER
	PIPE DROP
	PIPE RISE
	TEE FITTING - SIDE BRANCH CONNECTION
	TEE FITTING - BOTTOM BRANCH CONNECTION
	TEE FITTING - TOP BRANCH CONNECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	BALL JOINT
	EXPANSION JOINT
	FLEXIBLE CONNECTION (PIPE)
	FLOW DIRECTION
	PIPE ANCHOR
	NEW CONNECTION TO EXISTING
	FIRE HYDRANT
	GAS PRESSURE REGULATOR
	GAS METER
	WATER METER
	THERMOMETER

GENERAL PIPING SYMBOLS - VALVES

SYMBOL	DESCRIPTION
	VALVE IN BOX
	BALL VALVE
	CHECK VALVE
	GATE VALVE
	PRESSURE & TEMP. RELIEF VALVE
	PETE'S PLUG (TYPICAL)
	REDUCED PRESSURE BACK FLOW PREVENTER (RPBP)
	PRESSURE REDUCING VALVE

SANITARY SEWER/WASTE/VENT

SYMBOL	DESCRIPTION
	CLEANOUT
	FLOOR DRAIN & P-TRAP (RISER)
	FLOOR DRAIN, ROOF DRAIN, OR AREA DRAIN (SIZE & TYPE NOTED)
	HUB DRAIN & P-TRAP
	2-WAY COUNTERSUNK CLEANOUT PLUGS MOUNT IN CONCRETE PAD FLUSH WITH FINISHED GRADE
	SANITARY COMBINATION FITTING
	VENT PIPE (PLUMBING)
	INDIRECT DRAIN
	CONDENSATE DRAIN
	FLOOR CLEANOUT
	ROOF DRAINAGE
	SECONDARY ROOF DRAINAGE
	NEW PIPING (WASTE, WATER, ETC)
	PIPING TO BE REMOVED
	EXISTING PIPING (WASTE, WATER, ETC)(LIGHT LINES)
	EXISTING WATER PIPE
	EXISTING SANITARY SEWER PIPE
	EXISTING VENT PIPE
	NEW VENT PIPE

DOMESTIC WATER SUPPLY

SYMBOL	DESCRIPTION
	PIPING TO BE REMOVED
	NEW COLD WATER PIPE
	NEW HOT WATER (120°)
	NEW HOT WATER RETURN (120°)
	NEW FIRE PIPE
	HOT WATER @ 140°
	SHOCK ABSORBER SEE PLUMBING FIXTURE CONNECTION SCHEDULE

UTILITIES

WATER / SEWER CONTACT: _____

NATURAL GAS CONTACT: _____

CONTRACTOR IS RESPONSIBLE TO OBTAIN AND VERIFY WITH ARCHITECT AND CITY FOR LATEST PLANS

PLUMBING ABBREVIATIONS

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
ABV	ABOVE	ID	INSIDE DIMENSION
AC	ABOVE CEILING	IE	INVERT ELEVATION (FLOW LINE)
AD	ACCESS DOOR	IN	INCHES
AFF	ABOVE FINISHED FLOOR	INSUL	INSULATION
AP	ACCESS PANEL	IN WG	INCHES OF WATER
APPROX	APPROXIMATE	KW	KILOWATT(S)
ARCH	ARCHITECTURAL	L	LONG, LENGTH
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	L-#	LAVATORY - REF. PLUMB. FIXT. SCHEDULE
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	LB	POUND
AV	ACID VENT	MAX	MAXIMUM
AW	ACID WASTE	MECH	MECHANICAL
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BLDG	BUILDING	MS	MOTOR STARTER
BOP	BOTTOM OF PIPE	MTD	MOUNTED
BSMT	BASEMENT	NA	NOT APPLICABLE
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
BW-#	BACKWATER VALVE	NTS	NOT TO SCALE
CA	COMPRESSED AIR	OC	ON CENTER
CC	CENTER TO CENTER	OH	OVERHEAD
CAP.	CAPACITY	PCT	PERCENT
CD	CONDENSATE	PLBG	PLUMBING
CDP	CONDENSATE DRAIN PUMP	PRESS	PRESSURE
CI	CAST IRON	PRV	PRESSURE REDUCING VALVE
CLG	CEILING	PSIG	POUNDS PER SQUARE INCH (GAUGE)
CO	CLEANOUT	PVC	POLYVINYL CHLORIDE
CONN	CONNECTION	PW-#	PRESSURE WASHER - REF. PLUMB. FIXT. SCHED.
CONT	CONTINUATION	RD	ROOF DRAIN
CW	COLD WATER	REF: 4/P-500	REFER TO DETAIL 4, SHEET P-500
CL	CENTER LINE	REQ'D	REQUIRED
D	DRAIN	RPBP-#	REDUCED PRESSURE BACKFLOW PREVENTER
DCO	DOUBLE CLEANOUT	S-#	SINK - REF. PLUMB. FIXT. SCHEDULE
DIA	DIAMETER	SCHED.	SCHEDULE
DN.	DOWN	SD	STORM DRAIN
DN-#	DOWNSPOUT NOZZLE	SEC	SECOND
DWG	DRAWING	SH-#	SHOWER HEAD - REF. PLUMB. FIXT. SCHED.
EA	EACH	SPEC	SPECIFICATION
EQ	EQUAL	SP	SUMP PUMP
EQUIP	EQUIPMENT	SRD	SECONDARY ROOF DRAIN
EXIST	EXISTING	SS	SERVICE SINK/MOP SINK
3" ED-1	3" FLOOR DRAIN TYPE 1	STD	STANDARD
F	DEGREES FAHRENHEIT	STL	STEEL
FCO	FLOOR CLEANOUT	SW	SWITCH
FF	FINISHED FLOOR	TEMP	TEMPERATURE
FG	FINISHED GRADE	TP-#	TRAP PRIMER - REF. PLUMB. FIXT. SCHED.
FLG	FLANGE	TYP	TYPICAL
FLR	FLOOR	U-#	URINAL - REF. PLUMB. FIXT. SCHED.
FM	FACTORY MUTUAL	UF	UNDER FLOOR
FPM	FEET PER MINUTE	UG	UNDER GROUND
FT	FEET, FOOT	UL	UNDERWRITERS LABORATORIES
FS	FLOOR SINK	UTIL	UTILITY
GA	GAUGE	VB	VALVE BOX
GAL	GALLON	VCP	VITRIFIED CLAY PIPE
GALV	GALVANIZED	VEL	VELOCITY
GCO	GROUND CLEANOUT	VOL	VOLUME
GPH	GALLONS PER HOUR	VOLT	VOLTAGE
GPM	GALLONS PER MINUTE	VTR	VENT THRU ROOF
GW	GREASE WASTE	W	WIDE, WIDTH
GV	GREASE VENT	WB-#	WASHER BOX - REF. PLUMB. FIXT. SCHED.
H	HIGH, HEIGHT	WD-#	WATER DEVICE - REF. PLUMB. FIXT. SCHED.
HB-#	HOSE BIBB - REF. PLUMB. FIXT. SCHED.	W/	WITH
HP	HORSEPOWER	W/O	WITHOUT
HR	HOUR	WC-#	WATER CLOSET - REF. PLUMB. FIXT. SCHED.
HTR	HEATER	WCO	WALL CLEANOUT
HWRP	HOT WATER RECIRCULATING PUMP	WD-#	WATERING DEVICE - REF. PLUMB. FIXT. SCHEDULE
HZ	HERTZ	WH-#	WATER HEATER - REF. PLUMB. FIXT. SCHED.
		WS-#	WATER SOFTENER - REF. SPECIFICATIONS
		WTD-#	WIDE TRENCH DRAIN - REF. PLUMB. FIXT. SCHED.
		WTR	WATER

NATURAL GAS

SYMBOL	DESCRIPTION
	PIPING TO BE REMOVED
	EXISTING MED PRESS GAS PIPE
	EXISTING LOW PRESS GAS PIPE
	GAS (MEDIUM PRESSURE)
	GAS (LOW PRESSURE PRESSURE)
	PLUG VALVE

PLUMBING GENERAL NOTES

- NOTE: FOR THE PURPOSE OF CLARITY AND LEGIBILITY, THE DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE WHEREVER POSSIBLE, THE CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL OF THE CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION PRIOR TO ORDERING, FABRICATING OR INSTALLING ANY MATERIALS.
- THE PLUMBING SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
- PLUMBING QUALITY, WEIGHTS OF MATERIALS AND ALTERNATE METHODS OF CONSTRUCTION SHALL CONFORM TO THE APPLICABLE PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS.
- CONTRACTOR SHALL COORDINATE ALL WORK SHOWN ON THESE DRAWINGS AND SPECIFICATIONS WITH ALL DISCIPLINES AND TRADES PRIOR TO SUBMITTAL OF BID AND INSTALLATION OF SYSTEMS.
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO VERIFY ALL EXISTING CONDITIONS, INCLUDE IN BID THE RELOCATION OF ALL EXISTING UTILITIES THAT WILL OBSTRUCT NEW CONSTRUCTION, INCLUDE IN BID ALL DEVELOPMENT FEES, DEPOSITS, MEASURING DEVICE FEES, AND ALL OTHER FEES RELATED TO THE ESTABLISHMENT OF UTILITY SERVICES FOR THE NEW STRUCTURE.
- CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR ALL FEES, CHARGES, PENALTIES AND MATERIALS.
- THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND LABOR (INCLUDING THE COMPLETE PLUMBING SYSTEM) FOR A PERIOD OF ONE YEAR FROM WRITTEN ACCEPTANCE BY THE TENANT. ANY DEFECTS IN MATERIALS AND OR LABOR FOUND WITHIN THE GUARANTEE PERIOD SHALL BE REMEDIATED OR REPAIRED BY THIS CONTRACTOR IN A TIMELY FASHION, AT NO COST TO THE TENANT.
- CONTRACTOR TO FIELD VERIFY INVERT ELEVATION OF EXISTING GREASE WASTE AND SANITARY SEWER BEFORE COMMENCING ANY WORK.
- ALL PLUMBING FIXTURE LOCATIONS (WATER CLOSETS, LAVATORIES ETC.) ARE DIAGRAMMATIC. CONTRACTOR SHALL REFER TO FOOD SERVICE AND ARCHITECTURAL DRAWINGS FOR EXACT PLACEMENT AND MOUNTING HEIGHTS.
- ANY DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTAL OF BID AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS. SUBMITTAL OF BID WILL VERIFY THAT THE CONTRACTOR HAS VISITED THE SITE.
- PIPING SHALL BE INSTALLED PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. THE INSTALLATION SHALL MEET ALL CONSTRUCTION CONDITIONS AND ALLOW FOR THE INSTALLATION OF OTHER TRADES.
- SUPPORT PIPING WITH CLEVIS OR SPLIT RING TYPE PIPE HANGERS WITH 3/8" ALL THREAD ROD AND BEAM CLAMPS. "PLUMBERS TAPE AND WIRE" NOT PERMITTED.
- TRAP PRIMERS FOR FLOOR DRAINS AND FLOOR SINKS AND WATER HAMMER ARRESTORS TO BE INSTALLED AS PER APPLICABLE PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENTS AND THE LATEST EDITION OF THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE 1010) SIZING AND INSTALLATION REQUIREMENTS.
- ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
- ALL SERVICE WATER HEATING EQUIPMENT TO BE IN COMPLIANCE WITH THE APPLICABLE PLUMBING CODES, WITH LOCAL JURISDICTION CODE AMENDMENT REQUIREMENTS AND LABELED AS SUCH.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED THROUGH CURBS OR PIPE SEALS A MINIMUM OF 12" ABOVE THE ROOF. THE PIPE CURBS AND SEALS SHALL BE INSTALLED BY THE ROOFING CONTRACTOR. ENSURE THAT ALL BOOT OPENINGS ARE PROVIDED TO ACCOMMODATE ANY ELECTRICAL CONDUIT PENETRATIONS REQUIRED FOR POWER.
- CONTRACTOR SHALL PROVIDE: FAUCETS, TRAPS, STOPS, BALL VALVES, BACKFLOW DEVICES FOR KITCHEN EQUIP, GASCOCKS, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM (SEE SCHEDULES).
- ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE AND LOCATED AS PER CODE REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE ALL CLEAN OUT LOCATIONS WITH EQUIPMENT, MILLWORK, ETC., PRIOR TO INSTALLATION.
- ALL PLUMBING FIXTURE VENTS TO TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10'-0" FROM OR 3'-0" ABOVE ANY MECHANICAL EQUIPMENT OUTSIDE AIR INTAKE.
- ALL VALVES, UNIONS, ETC. TO BE SAME SIZE AS CONNECTED SUPPLY LINE UNLESS OTHERWISE NOTED ON DRAWINGS.
- UNIONS SHALL BE PROVIDED AND INSTALLED AFTER EACH SREW-TYPE VALVE AND PRIOR TO EQUIPMENT CONNECTIONS.
- PIPING SHALL BE INSTALLED COMPLETE WITH DIELECTRIC UNIONS BETWEEN CONNECTIONS OF NON-FERROUS MATERIALS.
- PROVIDE DIELECTRIC INSULATION FOR COPPER PIPE ANYWHERE IT CONTACTS DISSIMILAR METAL. THIS INCLUDES THE WATER HEATER CONNECTIONS.
- PROVIDE ACCESSIBLE WATER SUPPLY STOP VALVES AT EACH PLUMBING FIXTURE.
- PROVIDE A LINE SIZED PRESSURE REDUCING VALVE AT THE BUILDING SERVICE CONNECTION SHOULD THE SUPPLY PRESSURE EXCEED 80 PSI.
- ALL UNDERGROUND METALLIC PIPE AND FITTINGS SHALL BE PROTECTED IN ACCORDANCE WITH THE SOILS ENGINEER'S RECOMMENDATIONS.
- NO PIPING SHALL BE DIRECTLY EMBEDDED IN CONCRETE, MASONRY WALLS, OR CONCRETE FOOTINGS.
- THE PLUMBING CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR ALL POINTS OF CONNECTION WITH THE GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO START OF WORK.
- VERIFY EXACT LOCATIONS, DEPTH AND SIZE OF ALL PIPING TO WHICH CONNECTIONS ARE REQUIRED. COORDINATE ALL CONNECTIONS WITH SITE CONDITIONS AND SITE UTILITY CONTRACTOR/REPRESENTATIVE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE INSTALLATION OF ALL WORK RELATED TO PLUMBING UTILITIES INCLUDING: TRENCHING, BACKFILL, SUPPORTS, CLEAN-OUT PADS, SERVICE VALVES AND BOXES, SERVICE LINES, TESTING, CLEANING, AND STERILIZING.
- ALL HORIZONTAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATIONS AND NOT LESS THAN 6" ABOVE THE FLOOR TO PROVIDE CLEARANCE FOR CLEANING.
- ALL CUTTING OF EXISTING FLOORING, WALLS AND/OR FLOORS SHALL UTILIZE MACHINE SAW CUTTING EQUIPMENT. HOLES FOR PIPES IN CONCRETE, WALLS OR FLOORS SHALL UTILIZE CORE DRILLING EQUIPMENT. COORDINATE WITH ARCHITECTURAL DETAILS FOR FLOOR CUTTING AND PATCHING.
- THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQUIRED FOR COORDINATION WITH WORK OF OTHER TRADES.
- PIPING LAYOUT IS SCHEMATIC ONLY. EXACT ROUTING AND INSTALLATION OF PIPES TO BE COORDINATED WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER CONTRACTORS. NO WATER OR DRAIN LINES ARE PERMITTED TO BE INSTALLED OVER OR UNDER ELECTRICAL PANELS.
- NO LIQUID TRANSMISSION PLUMBING PIPING SHALL BE INSTALLED ABOVE ELECTRICAL SWITCH GEAR, EQUIPMENT, OR PANELS. MAKE ADJUSTMENTS NECESSARY TO REROUTE PIPING FOR ACTUAL INSTALLATION OF ELECTRIC EQUIPMENT.
- WHENEVER FOUNDATION WALLS, EXTERIOR WALLS, ROOFS, ETC. ARE PENETRATED FOR THE INSTALLATION OF PLUMBING SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SEALED WEATHER TIGHT.
- ANY EXPOSED PIPING IN GUEST OR PUBLIC AREAS SHALL BE PAINTED TO MATCH THE WALL COLOR. ANY EXPOSED GAS PIPING IN KITCHENS SHALL BE PAINTED WHITE.
- DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND TRADE NAMES), MATERIALS, SIZES, LOCATIONS AND HOOD-UP POINTS. AS-BUILTS SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
- UPON COMPLETION OF JOB, THIS CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKINGS AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
- PLUMBING CONTRACTOR SHALL BE ON SITE AND PRESENT AT THE DATE OF THE PROJECT TURNOVER.
- PLUMBING CONTRACTOR SHALL PROVIDE MANUFACTURER'S OPERATION LITERATURE FOR ALL INSTALLED EQUIPMENT AND FIXTURES AT THE DATE OF PROJECT TURNOVER.
- ALL PLUMBING FIXTURES SHALL MEET AND BE INSTALLED AT DIMENSIONS REQUIRED BY ACCESSIBILITY STANDARDS FOR HANDICAPPED PERSONS.
- ANY PLASTIC PIPING (PVC PIPE) LOCATED IN A RETURN CEILING SPACE (OPEN CEILING) OR PLENUM SHALL BE ENCLOSED IN GFB OR WEARED WITH 3M FIREMASTER BLANKET OR UL910 STANDARD COVER.
- ALL UNDERGROUND WATER PIPING SHALL BE SOFT COPPER PIPING. THERE SHALL NOT BE ANY UNDERGROUND JOINT FITTINGS.
- ALL DENTAL SPECIALTY PIPING SHALL BE COPPER PIPING.
- DENTAL SPECIALTY PIPING SHALL BE INSTALLED BY A CERTIFIED MED GAS INSTALLER WITH 5 YEARS EXPERIENCE.
- ALL PIPING IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN FURRED CHASES OR INSTALLED ABOVE SUSPENDED CEILING UNLESS NOTED OTHERWISE.
- ALL FLOOR BRANCHES OFF PIPE RISERS SHALL BE PROVIDED W/ SHUT OFF VALVES AND CAPPED DRAIN CONNECTION.
- INSULATED PREWORK SHALL BE INSTALLED SO THAT FULL THICKNESS INSULATION CAN BE APPLIED TO EACH PIPE.
- ALL PIPING INSTALLED ON THE ROOF MUST BE SUPPORTED, WITH PIPE SUPPORTS EVERY 10'-0". PIPE SUPPORT TO BE DURA-BLOCK. CONTRACTOR TO PROVIDED SIZES AND ACCESSORIES REQUIRED.



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Alamogordo Park Restrooms

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION	DATE



NORTH

PLUMBING SITE PLAN 1
BALLOON PARK NTS MP200

KEYED NOTES

1. POINT OF CONNECTION – PLUMBING CONTRACTOR TO CONNECT NEW WASTE LINE TO EXISTING SEWER MAIN LINE. FIELD VERIFY EXACT INVERT AND LOCATION OF EXISTING SEWER MAIN LINE PRIOR TO COMMENCING ROUGH IN WORK. CONNECTION TO THE EXISTING 27" CLAY PIPE IS APPROXIMATELY 11' DEEP.
2. REMOVE 6" PVC WATER LINE UNDER NEW BUILDING AND REROUTE 6" PVC WATER LINE AROUND NEW BUILDING.



08-31-21



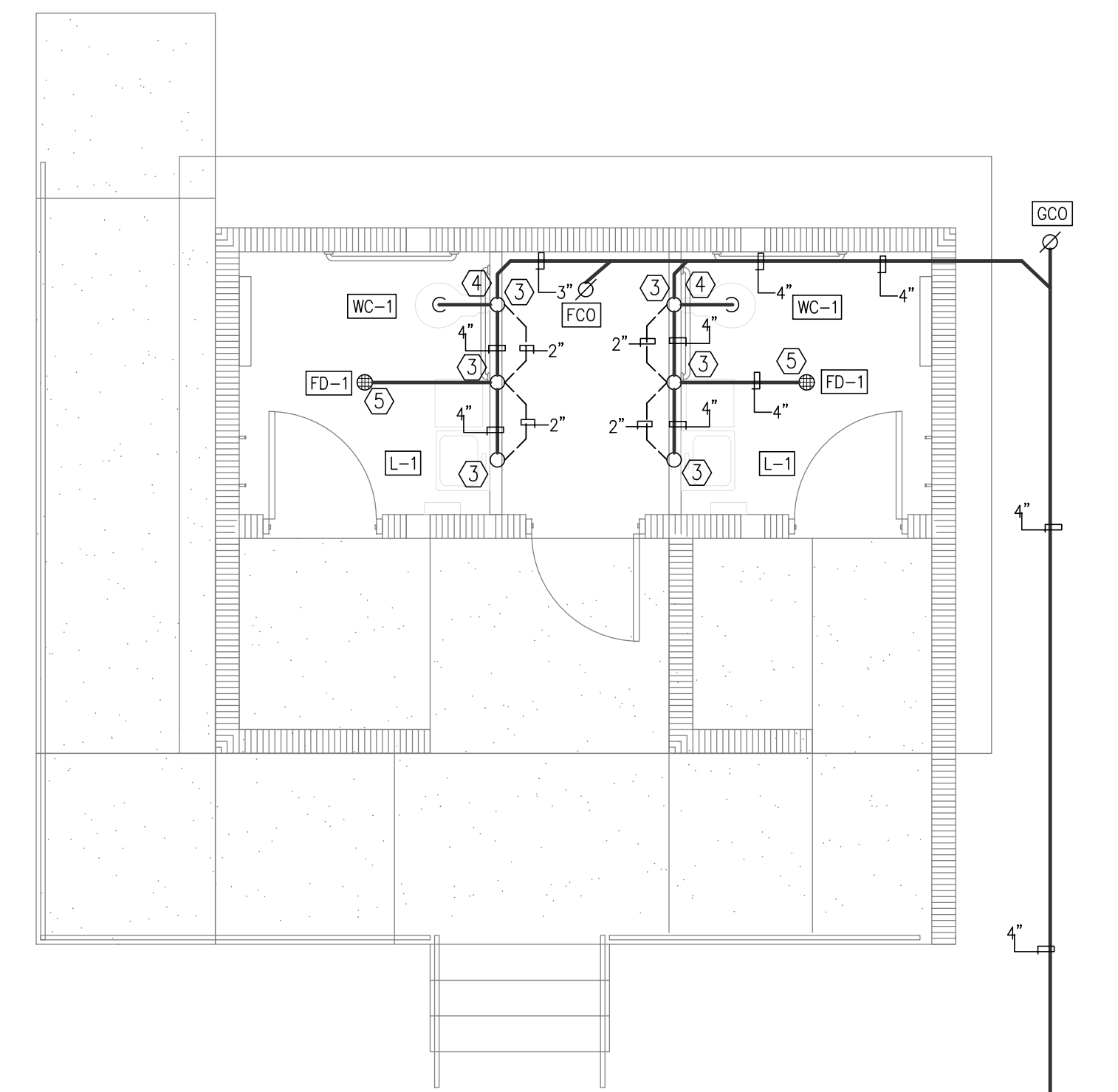
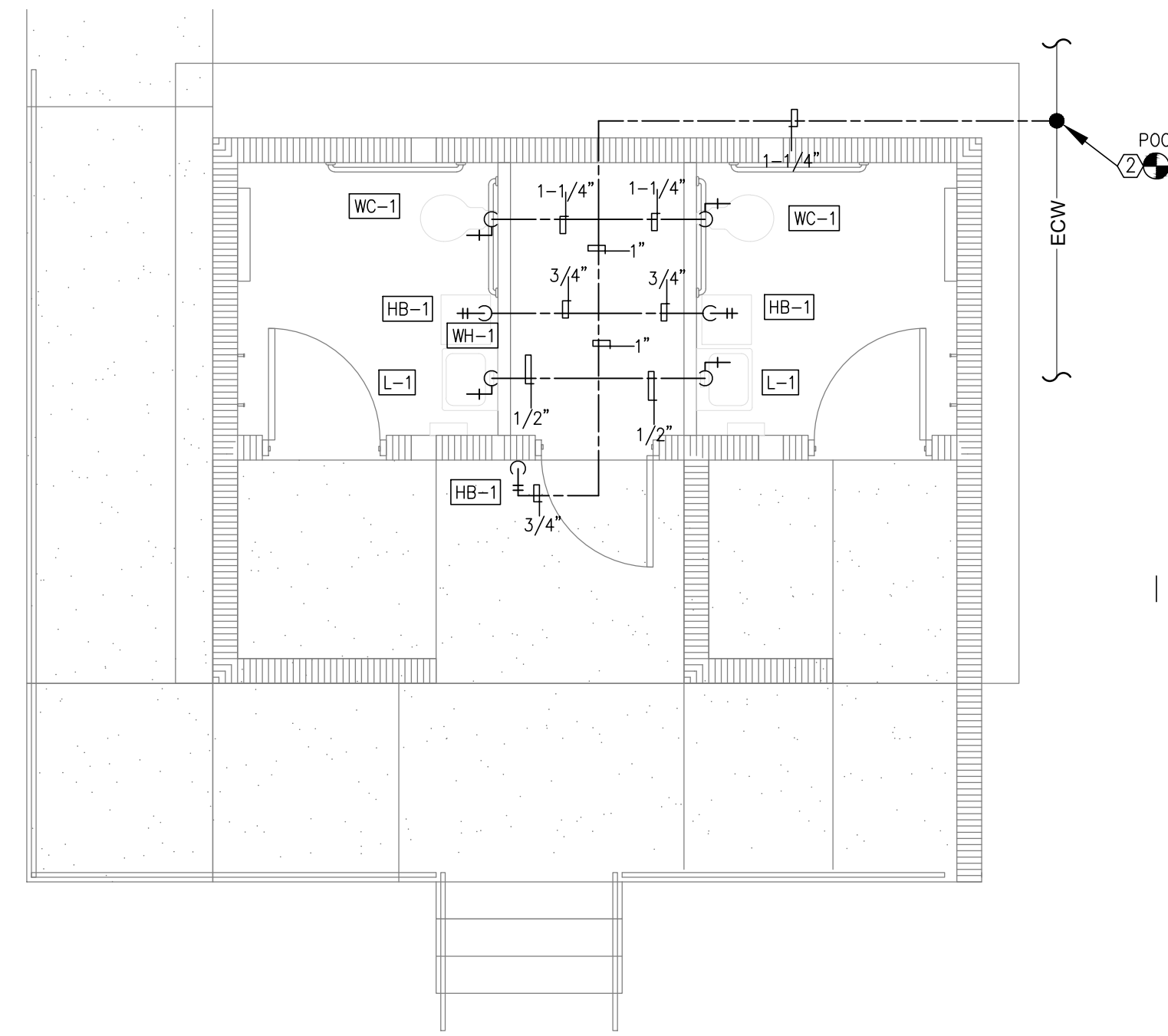
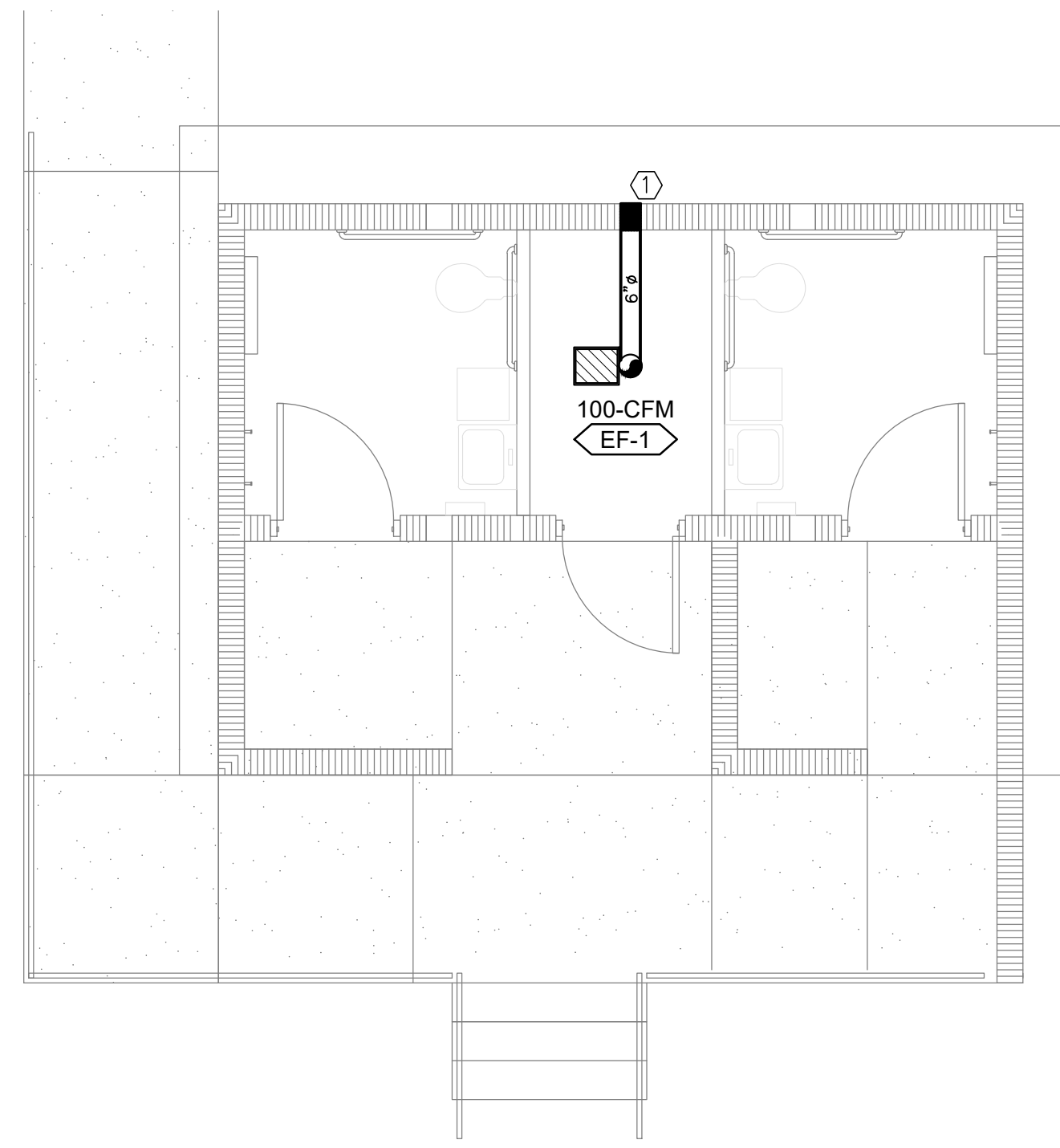
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Project no: 21.16
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SITE
PLAN
MP200

KEYED NOTES

- 6"Ø ROUND DUCT THRU SIDE WALL FROM EXHAUST FAN.
- POINT OF CONNECTION – PLUMBING CONTRACTOR TO CONNECT NEW DOMESTIC WATER LINES TO EXISTING WATER MAIN LINE. FIELD VERIFY EXACT LOCATION OF EXISTING SERVICE WATER MAIN LINE PRIOR TO COMMENCING ROUGH IN WORK..
- PROVIDE FULL SIZE CLEANOUT.
- PROVIDE 2"Ø VENT THROUGH ROOF.
- PROVIDE FLOOR DRAIN/SINK TRAP SEALS.



REFER TO MP200

MECHANICAL PLAN 1
BALLOON PARK 1/4" = 1'-0" MP201
NORTH

DOMESTIC WATER PLAN 2
BALLOON PARK 1/4" = 1'-0" MP201
NORTH

SEWER AND VENT PLAN 3
BALLOON PARK 1/4" = 1'-0" MP201
NORTH

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	CFM	ESP	MOTOR				SONES	REMARKS
				HP	VOLTS	PHASE	# SPDS		
EF-1	S&P PC110XP	100	0.125	27 W	120	1	1	0.9	PROVIDE WITH VIBRATION ISOLATORS, BACKDRAFT DAMPER, ALUMINUM PERFORATED GRILLE, AND ROOF CAP. UNIT CONTROLLED BY SWITCH.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	ROUGH-IN REQUIREMENTS				ACCESSORIES
			DRAIN	VENT	COLD	HOT	
WC-1	WATER CLOSET FLOOR MOUNTED BOTTOM OUTLET MANUAL FLUSHOMETER	KOHLER K-96057-SS-0	3"	1-1/2"	1-1/2"	-	BOWL: ELONGATED, ADA COMPLIANT, VITREOUS CHINA, ANTIMICROBIAL FINISH. SEAT: KOHLER MODEL K-4731-CA-0 WHITE OPEN FRONT TOILET SEAT. FLUSHOMETER: KOHLER MODEL K-76322-CP, MANUAL, 1.6 GPF, 1-1/2" TOP SPUD.
L-1	LAVATORY WALL MOUNTED VITREOUS CHINA MANUAL FAUCET	KOHLER K-1997-SS4-0	2"	1-1/4"	1/2"	1/2"	LAVATORY: ADA COMPLIANT, VITREOUS CHINA, ANTIMICROBIAL FINISH, OVAL BASIN, OVERFLOW DRAIN, 3-HOLE 4-INCH CENTER. PROVIDE WITH K-8998 P-TRAP AND K-1998-SS-0 SHORUD AND MOUNTING BRACKET. FAUCET: KOHLER MODEL K-15240-4NDRA-CP, MANUAL, 0.5 GPM, VANDAL RESISTANT AERATOR.
HB-1	WALL HYDRANT WALL MOUNTED	ZURN Z1345	-	-	3/4"	-	HYDRANT: ZURN MODEL Z1345 EXPOSED NON-FREEZE ANTI-SIPHON DRAINING WALL FAUCET, EXTERIOR CHROME FINISH, BRASS CASING, ALL BRONZE INTERIOR PARTS AND HAND OPERATION.
FD-1	FLOOR DRAIN	ZURN ZN415-BZ1	LINE SIZED	LINE SIZED	-	-	DRAIN: ZURN MODEL ZN415-BZ1 CAST IRON FLOOR DRAIN WITH NICKEL BRONZE TOP, PROVIDE WITH Z1072 TRAP GUARD.
GCO	GRADE CLEANOUT	ZURN Z-1402-HD	2" TO 4"	-	-	-	ZURN MODEL Z1402-HD TUF-TOP NON ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREADPLUG, AND ROUND SCORRIATED CAST IRON HEAVY-DUTY SECURED COVER AND FRAME.
FCO	FLOOR CLEANOUT	ZURN ZN1400-BZ1	2" TO 4"	-	-	-	ZURN MODEL Z1400-BZ1 CLEANOUT, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, WITH GAS AND WATERTIGHT THREADED ABS TAPERED PLUG AND TOP ASSEMBLY. "TYPE B" LIGHT DUTY SCORRIATED COVER.
WCO	WALL CLEANOUT	ZURN Z-1446	2" TO 4"	-	-	-	ZURN MODEL Z1446 CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED PLUG, AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.

Alamogordo Park Restrooms

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION DATE

Project no: 21.16
Date: April 2021
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BIDLOT-1 MECHANICAL AND PLUMBING PLAN

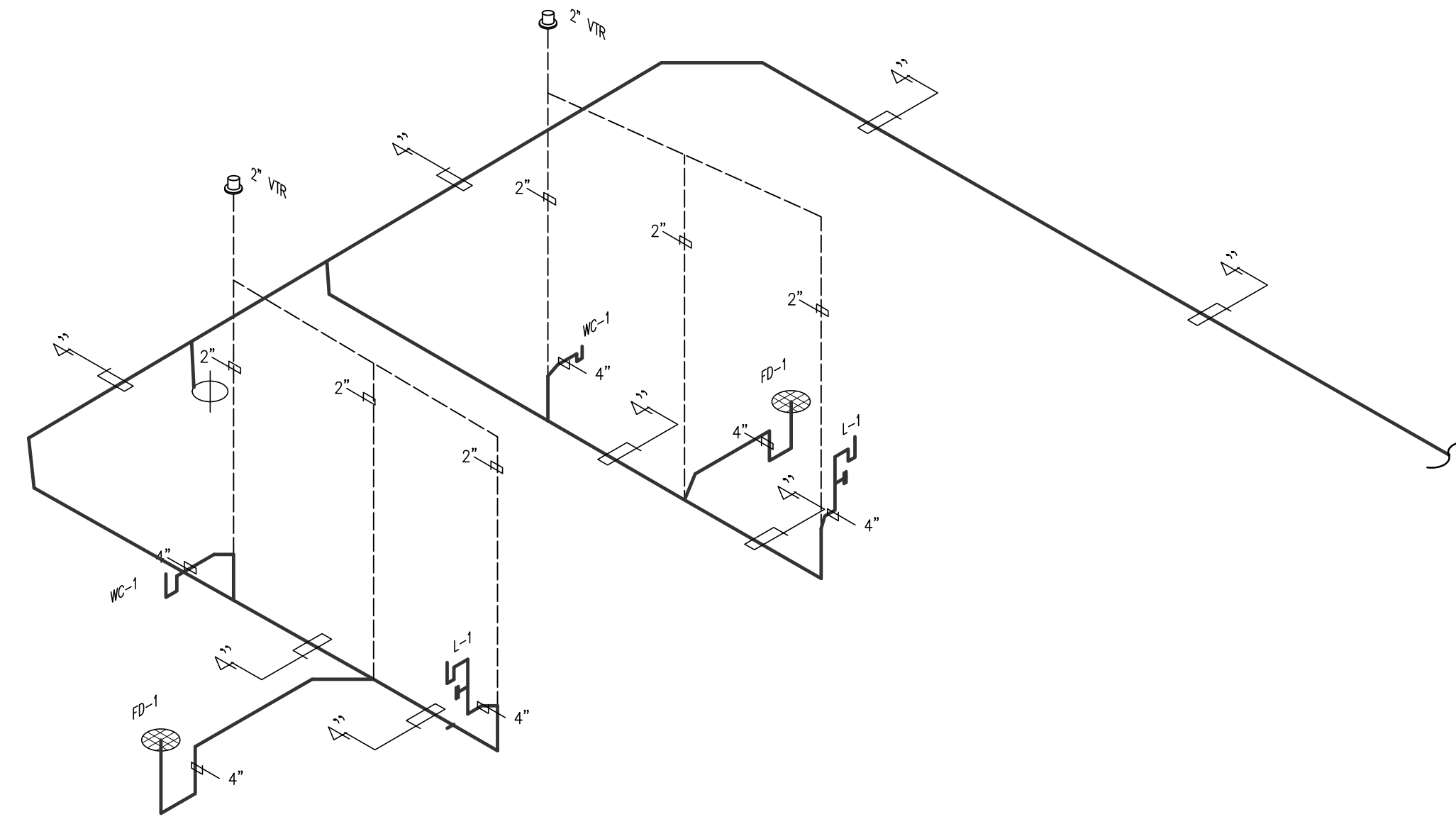
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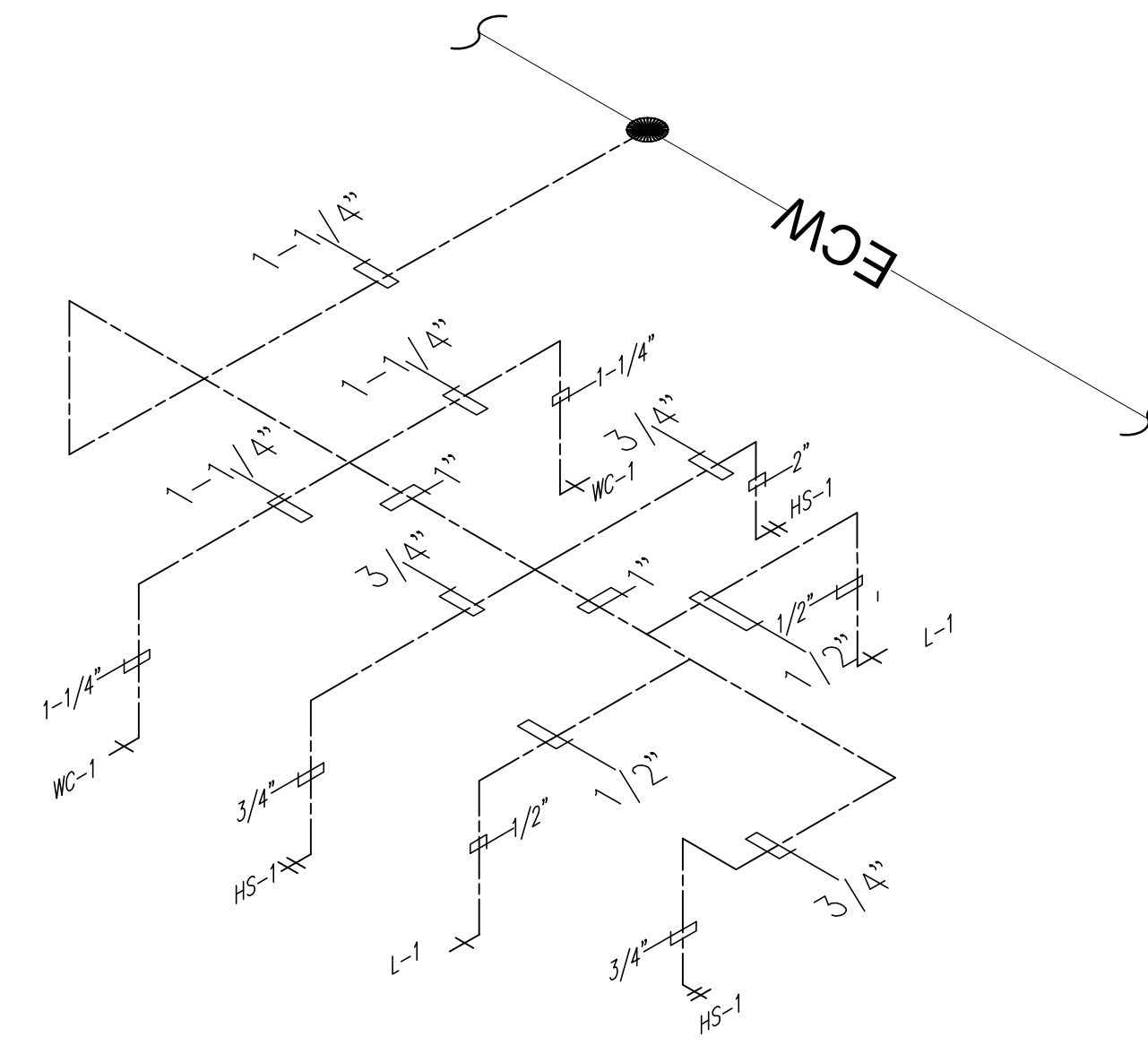
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 **SEWER AND VENT RISER PLAN** 2
BALLOON PARK NTS MP202



 **DOMESTIC WATER RISER PLAN** 1
BALLOON PARK NTS MP202

Alamogordo
Park Restrooms

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

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BIDLOT-1
ISOMETRIC
PLANS

MP202

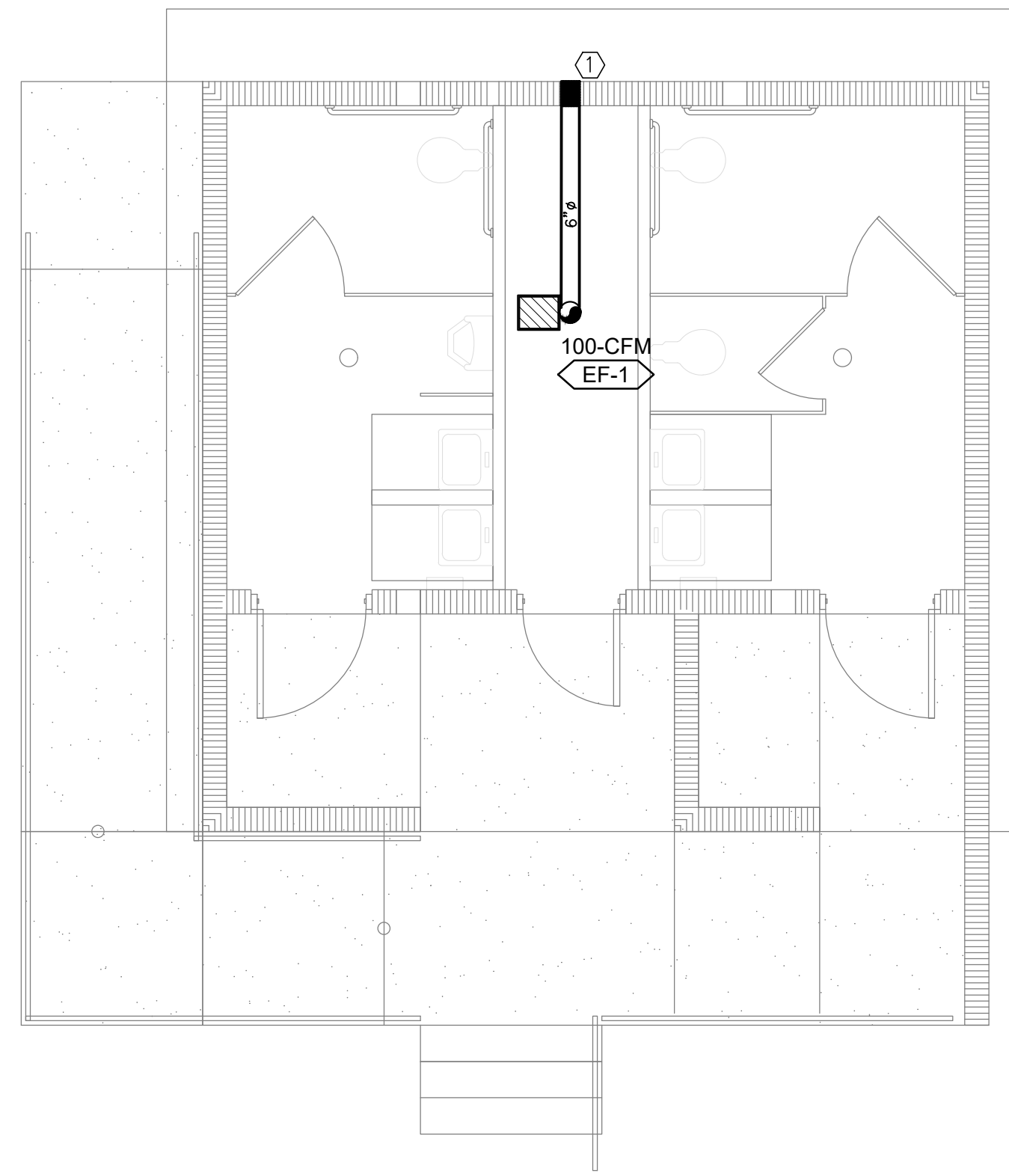


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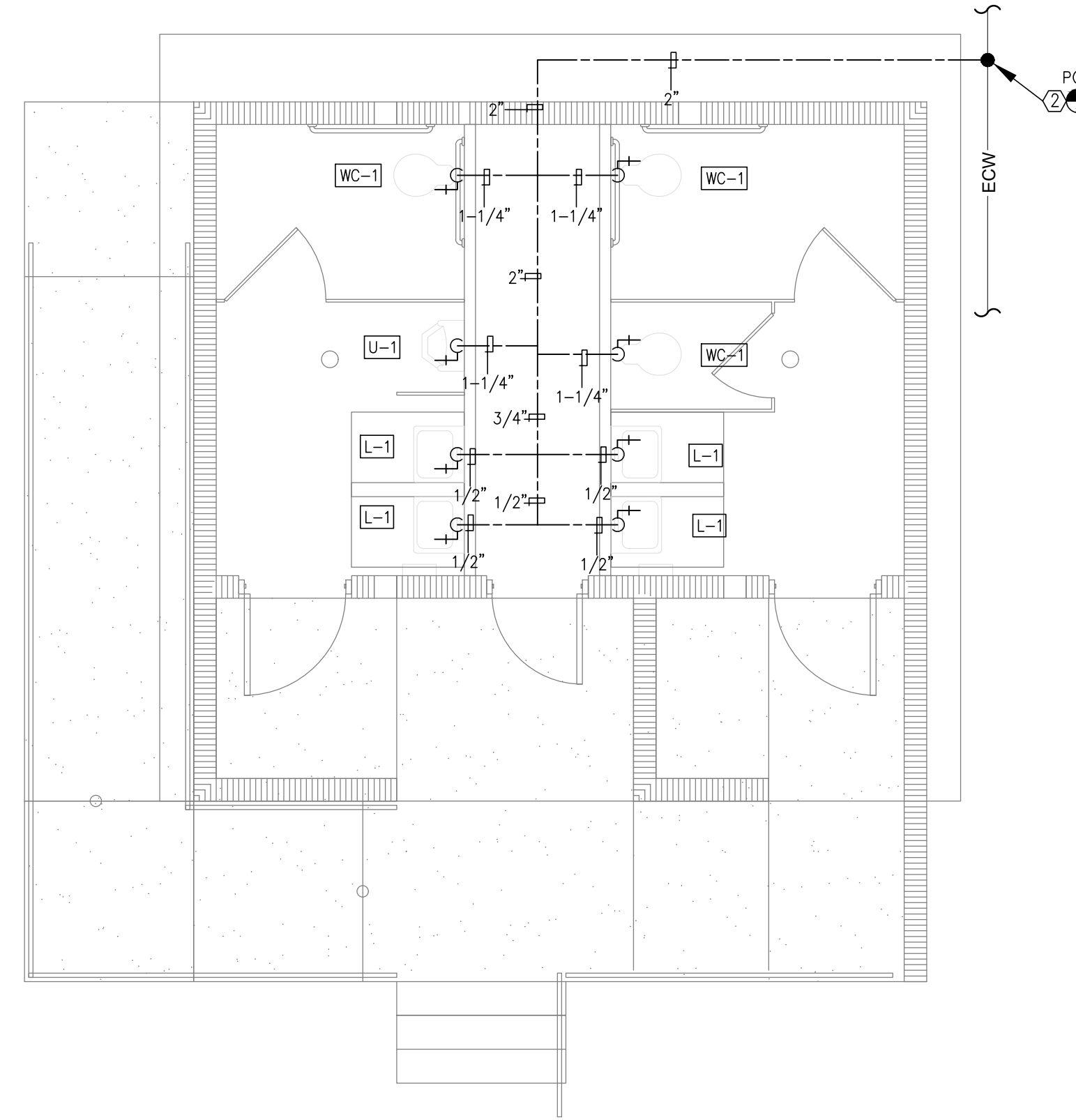
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KEYED NOTES

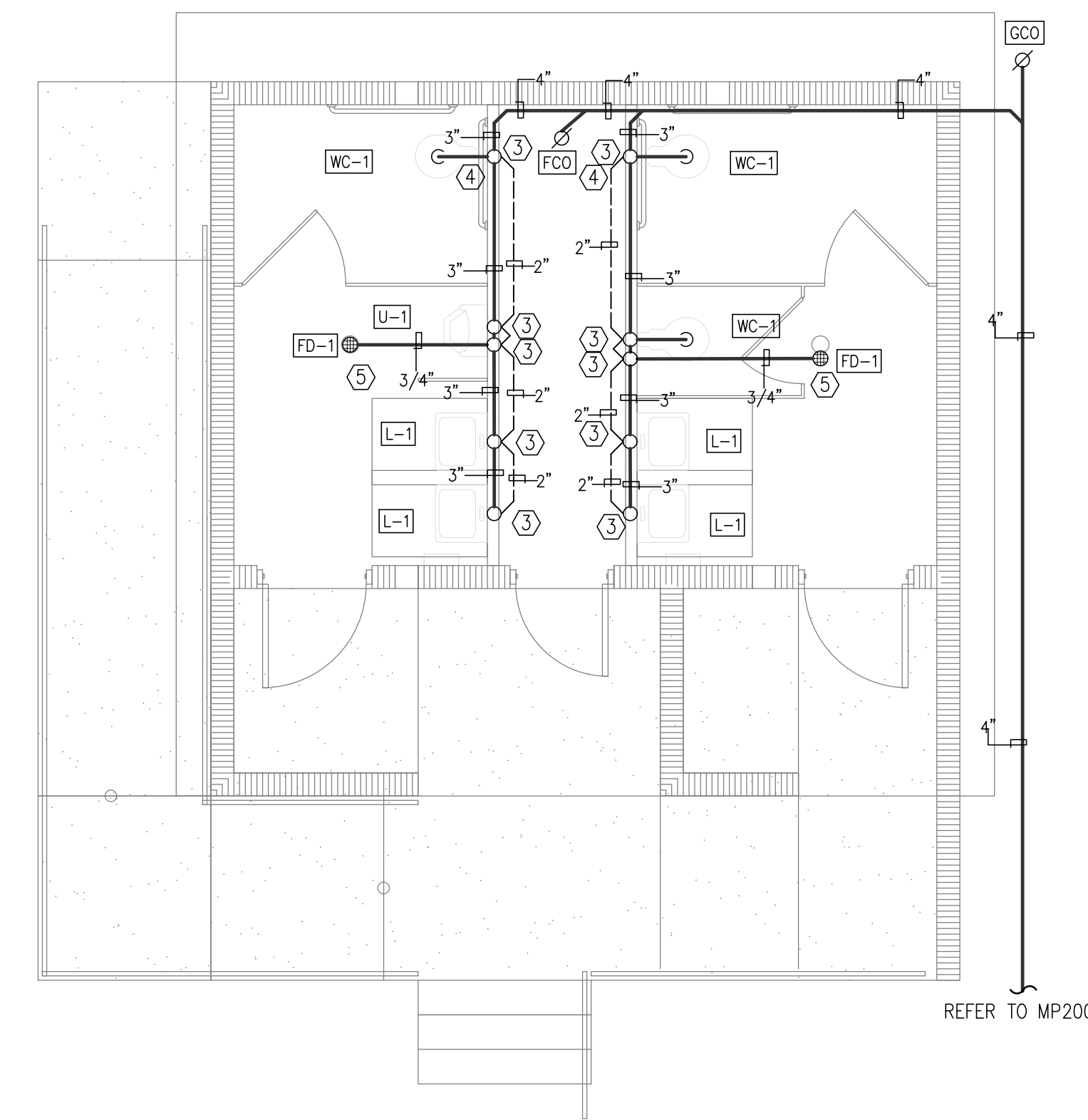
- 6"Ø ROUND DUCT THRU SIDE WALL FROM EXHAUST FAN.
- POINT OF CONNECTION – PLUMBING CONTRACTOR TO CONNECT NEW DOMESTIC WATER LINES TO EXISTING WATER MAIN LINE. FIELD VERIFY EXACT LOCATION OF EXISTING SERVICE WATER MAIN LINE PRIOR TO COMMENCING ROUGH IN WORK.
- PROVIDE FULL SIZE CLEANOUT.
- PROVIDE 2"Ø VENT THROUGH ROOF.
- PROVIDE FLOOR DRAIN/SINK TRAP SEALS.



ALTERNATE MECHANICAL PLAN 1
BALLOON PARK - ALTERNATIVE 1/4" = 1'-0" MP300
NORTH



ALTERNATE DOMESTIC WATER PLAN 2
BALLOON PARK - ALTERNATIVE 1/4" = 1'-0" MP300
NORTH



ALTERNATE SEWER AND VENT PLAN 3
BALLOON PARK - ALTERNATIVE 1/4" = 1'-0" MP300
NORTH

REFER TO MP200

**Alamogordo
Park Restrooms**

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	CFM	ESP	MOTOR				SONES	REMARKS
				HP	VOLTS	PHASE	# SPDS		
EF-1	S&P PC110XP	100	0.125	27 W	120	1	1	0.9	PROVIDE WITH VIBRATION ISOLATORS, BACKDRAFT DAMPER, ALUMINUM PERFORATED GRILLE, AND ROOF CAP. UNIT CONTROLLED BY SWITCH.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	ROUGH-IN REQUIREMENTS				ACCESSORIES
			DRAIN	VENT	COLD	HOT	
WC-1	WATER CLOSET FLOOR MOUNTED BOTTOM OUTLET MANUAL FLUSHOMETER	KOHLER K-96057-SS-0	3"	1-1/2"	1-1/2"	-	BOWL: ELONGATED, ADA COMPLIANT, VITREOUS CHINA, ANTIMICROBIAL FINISH. SEAT: KOHLER MODEL K-4731-CA-0 WHITE OPEN FRONT TOILET SEAT. FLUSHOMETER: KOHLER MODEL K-76322-CP, MANUAL, 1.6 GPF, 1-1/2" TOP SPUD.
L-1	LAVATORY WALL MOUNTED VITREOUS CHINA MANUAL FAUCET	KOHLER K-1997-SS4-0	2"	1-1/4"	1/2"	1/2"	LAVATORY: ADA COMPLIANT, VITREOUS CHINA, ANTIMICROBIAL FINISH, OVAL BASIN, OVERFLOW DRAIN, 3-HOLE 4-INCH CENTER. PROVIDE WITH K-8998 P-TRAP AND K-1998-SS-0 SHORUD AND MOUNTING BRACKET. FAUCET: MOEN COMMERCIAL, MODEL 8884(CHROME), 0.5 GPM, VANDAL RESISTANT AERATOR.
HB-1	WALL HYDRANT WALL MOUNTED	ZURN Z1345	-	-	3/4"	-	HYDRANT: ZURN MODEL Z1345 EXPOSED NON-FREEZE ANTI-SIPHON DRAINING WALL FAUCET, EXTERIOR CHROME FINISH, BRASS CASING, ALL BRONZE INTERIOR PARTS AND HAND OPERATION.
FD-1	FLOOR DRAIN	ZURN ZN415-B21	LINE SIZED	LINE SIZED	-	-	DRAIN: ZURN MODEL ZN415-B21 CAST IRON FLOOR DRAIN WITH NICKEL BRONZE TOP, PROVIDE WITH Z1072 TRAP GUARD.
U-1	URINAL WALL MOUNTED TOP SPUD MANUAL FLUSHOMETER	KOHLER K-5016-ETSS-0	2"	1-1/4"	3/4"	-	URINAL: ADA COMPLIANT, VITREOUS CHINA, SIPHON JET. PROVIDE WITH MANUFACTURER'S APPROVED MOUNTING BRACKET. FLUSHOMETER: KOHLER MODEL K-76319-CP, MANUAL, 1.0GPF, 3/4" TOP SPUD.
GCO	GRADE CLEANOUT	ZURN Z-1402-HD	2" TO 4"	-	-	-	ZURN MODEL Z1402-HD TUF-TOP NON ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, WITH GAS AND WATERTIGHT ABS TAPERED THREADPLUG, AND ROUND SCORIATED CAST IRON HEAVY-DUTY SECURED COVER AND FRAME.
FCO	FLOOR CLEANOUT	ZURN ZN1400-BZ1	2" TO 4"	-	-	-	ZURN MODEL Z1400-BZ1 CLEANOUT, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, WITH GAS AND WATERTIGHT THREADED ABS TAPERED PLUG AND TOP ASSEMBLY. "TYPE B" LIGHT DUTY SCORIATED COVER.
WCO	WALL CLEANOUT	ZURN Z-1446	2" TO 4"	-	-	-	ZURN MODEL Z1446 CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED PLUG, AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.

REVISION DATE

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**BIDLOT-2
MECHANICAL AND
PLUMBING PLAN**

MP300



08-31-21

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**Alamogordo
Park Restrooms**

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

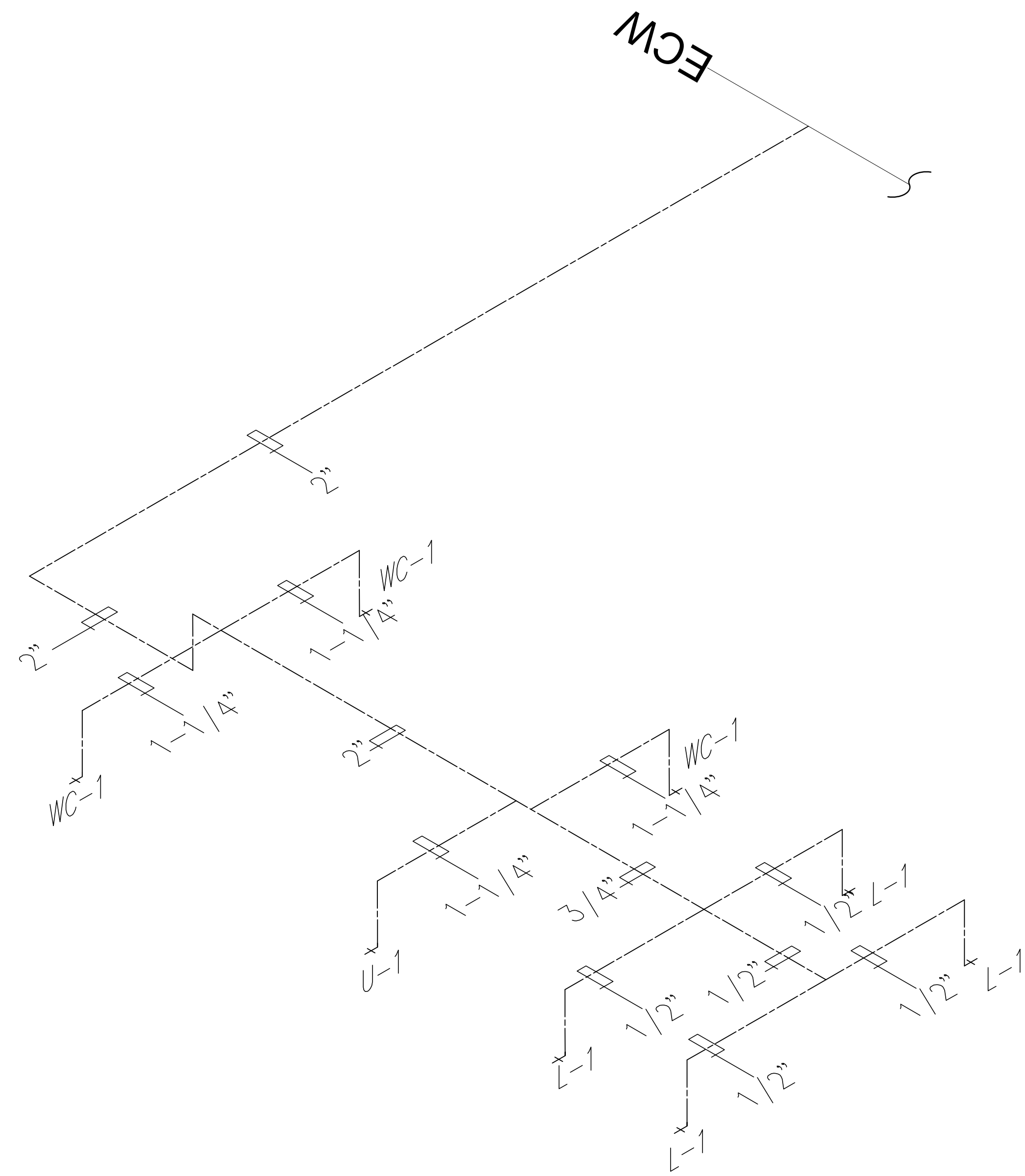
Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION	DATE

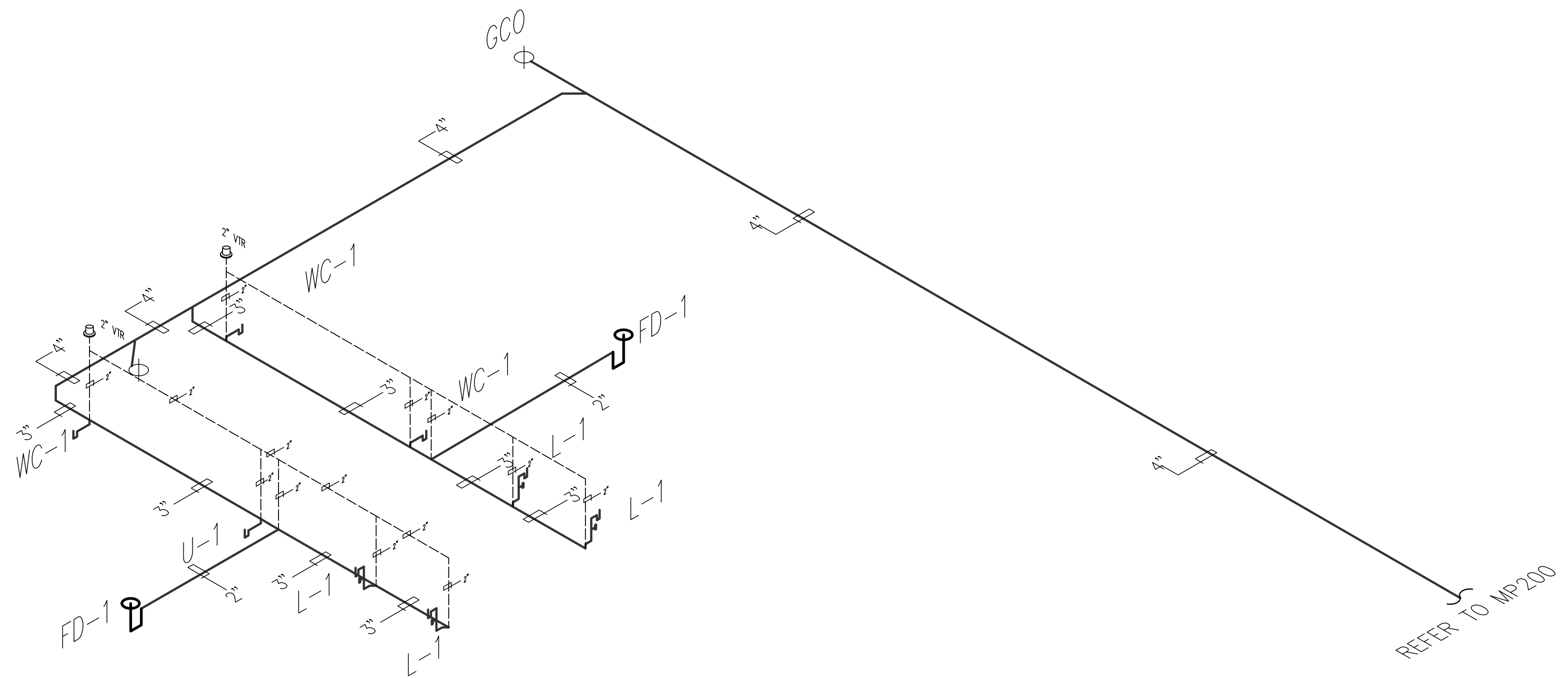
Project no: 21.16
Date: April 2021
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BIDLOT-2
ISOMETRICS
PLAN

MP301



 **ALTERNATE DOMESTIC WATER RISER PLAN** 1
BALLOON PARK - ALTERNATIVE NTS MP301



 **ALTERNATE SEWER AND VENT RISER PLAN** 2
BALLOON PARK - ALTERNATIVE NTS MP301



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**Alamogordo
Park Restrooms**

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION _____ DATE _____

Project no: 21.16
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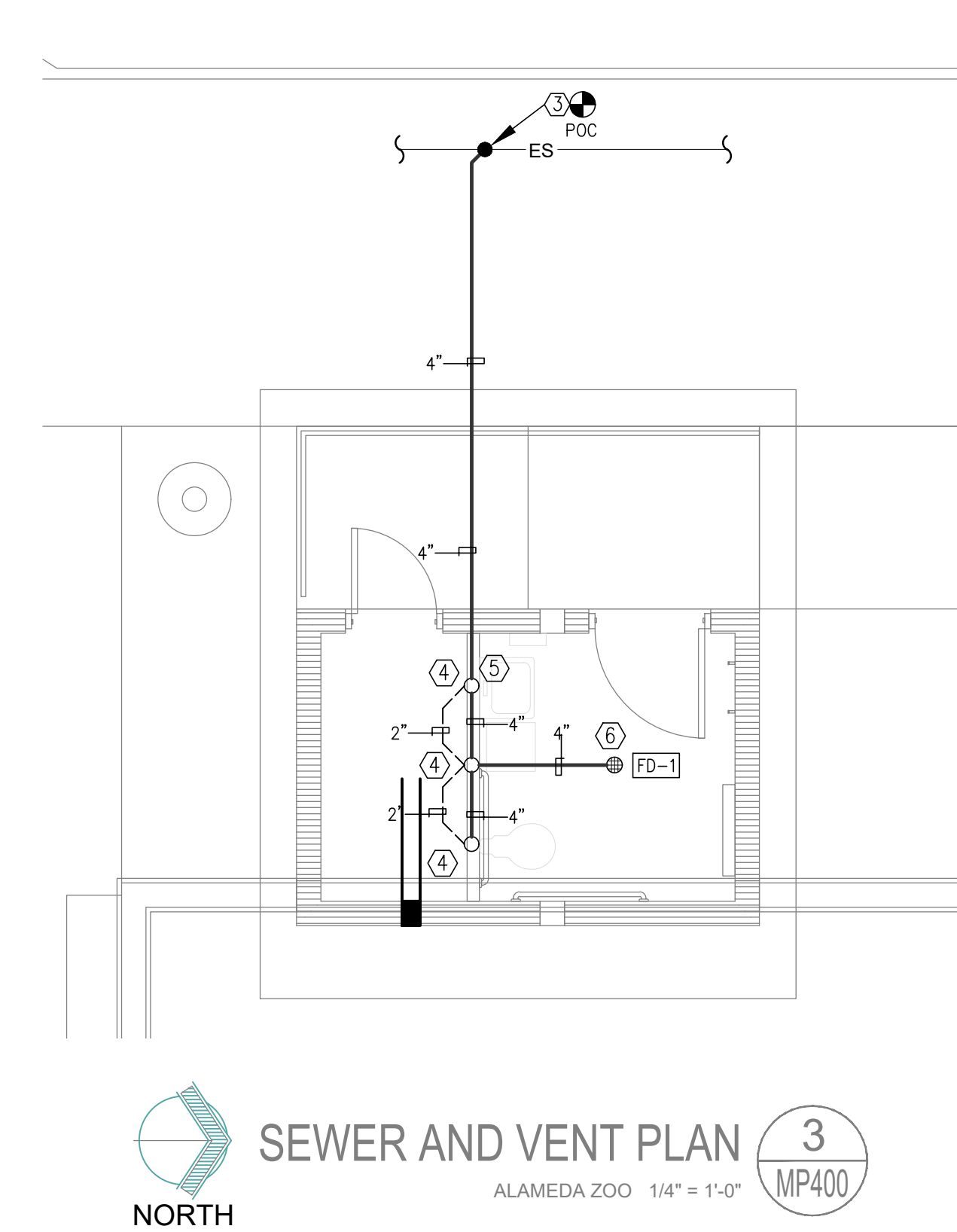
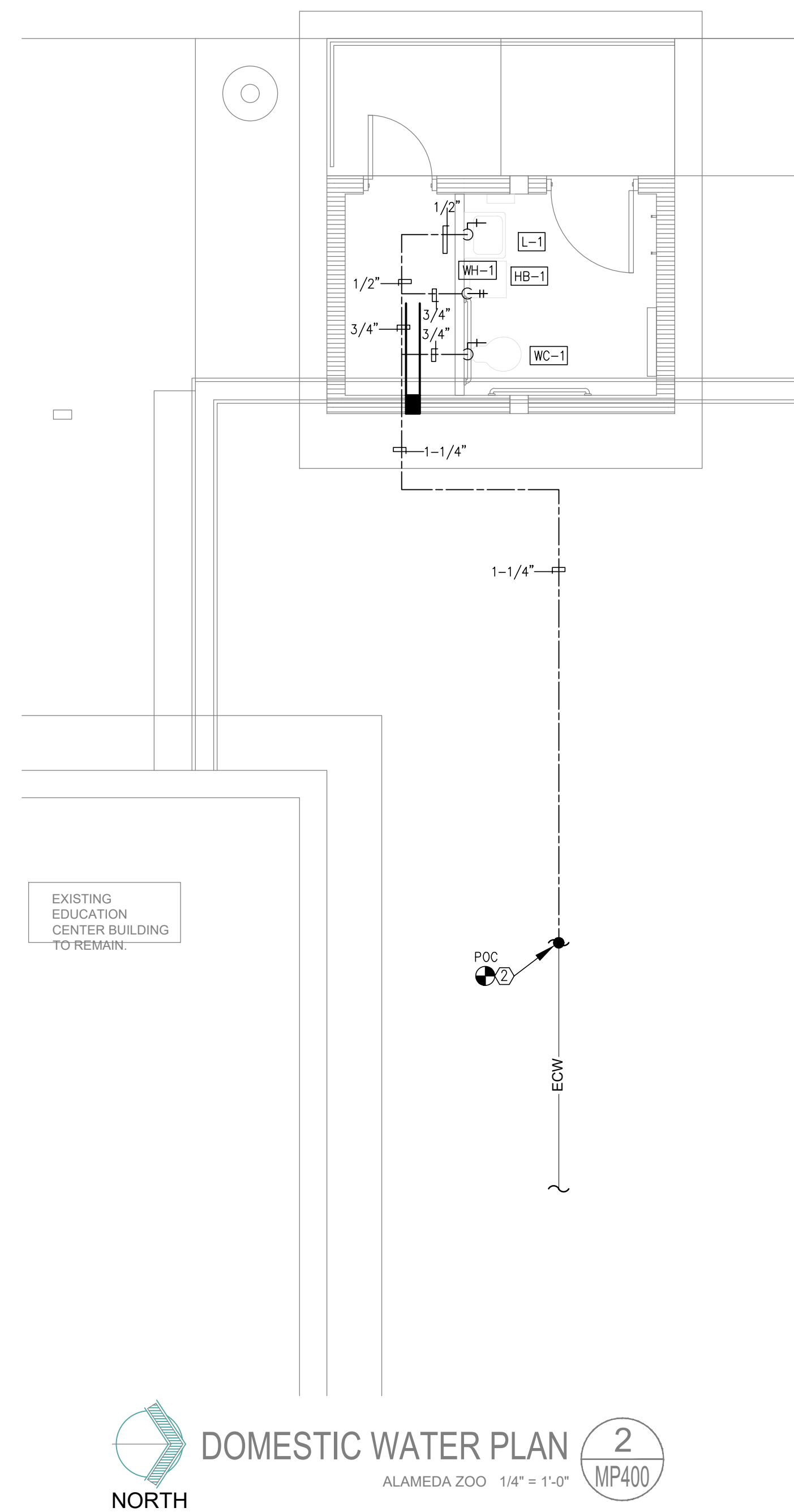
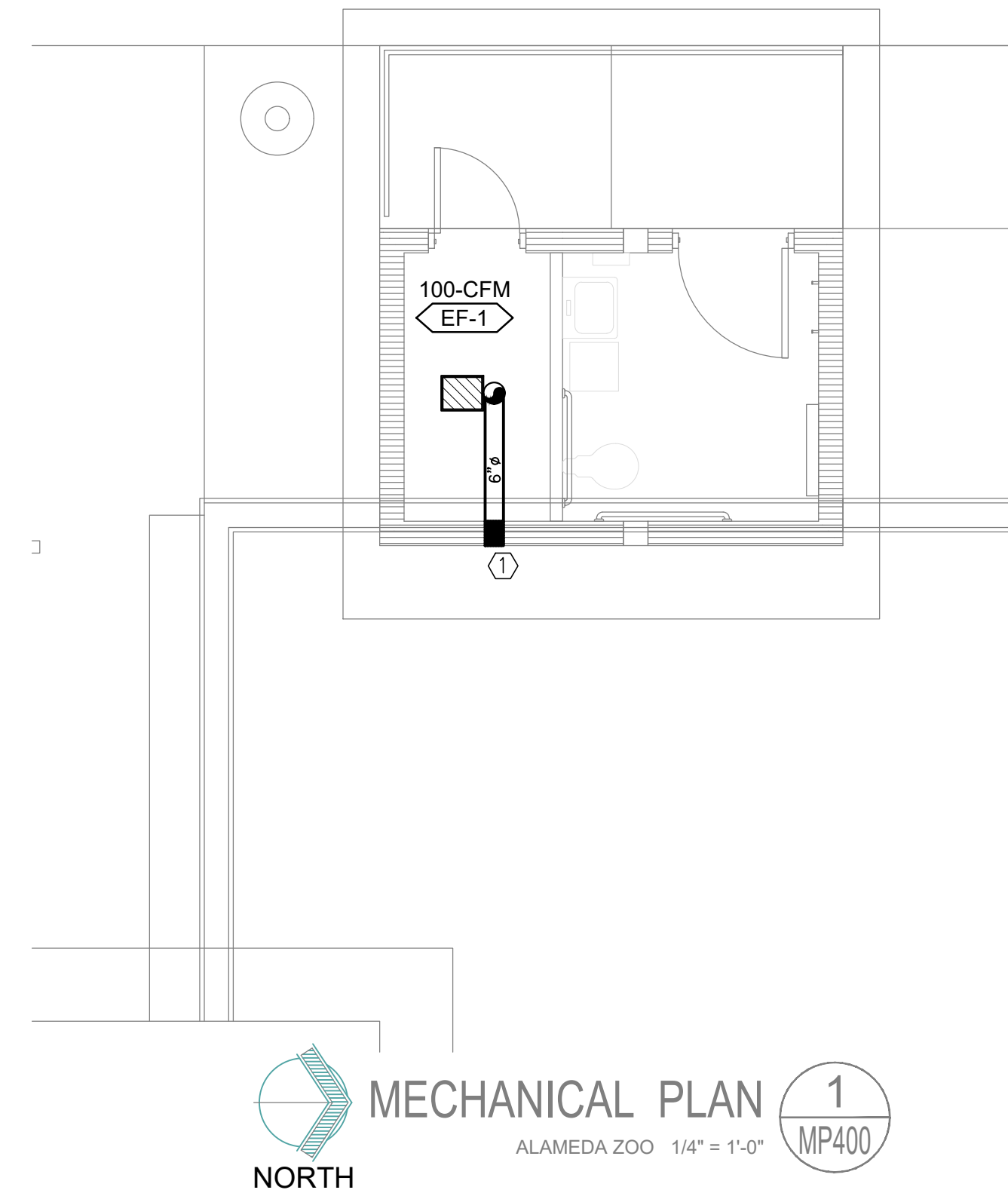
**BIDLOT-3
MECHANICAL AND
PLUMBING PLAN**

MP400

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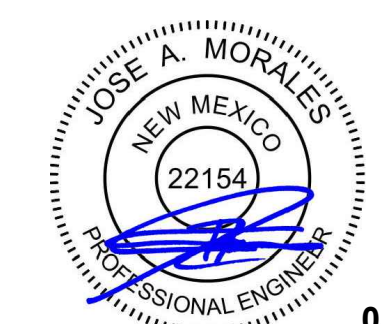
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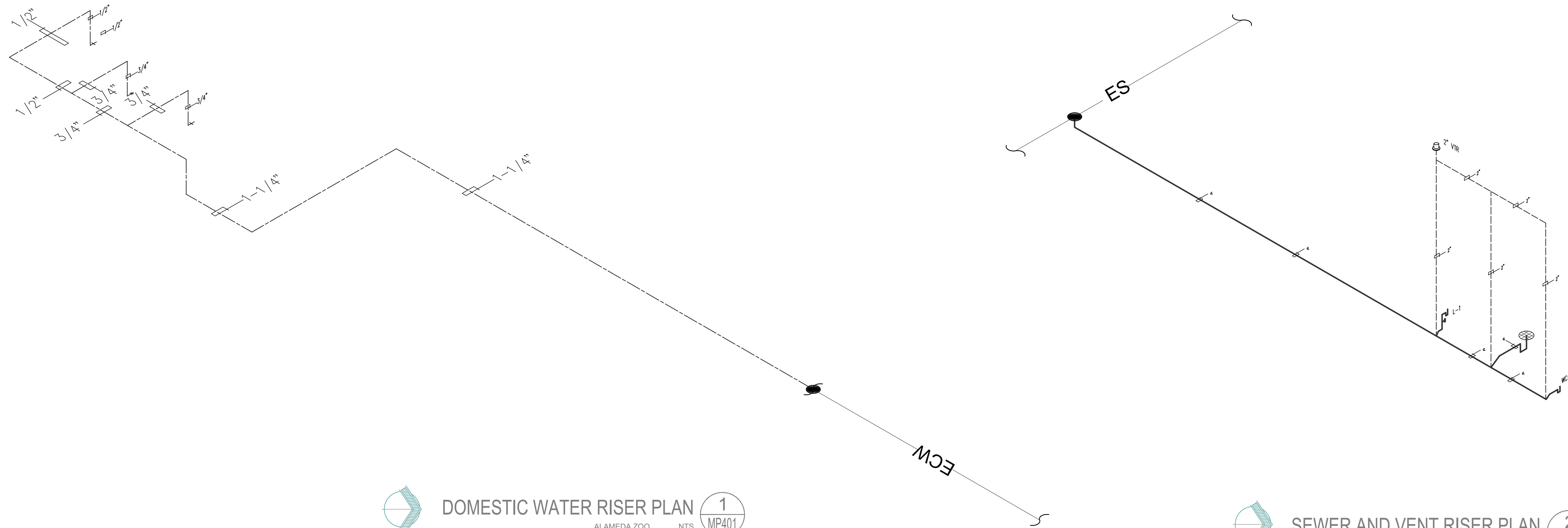
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- PROVIDE FULL SIZE CLEANOUT.
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- PROVIDE FLOOR DRAIN/SINK TRAP SEALS.



EXHAUST FAN SCHEDULE									
MARK	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	CFM	ESP	MOTOR				SONES	REMARKS
				HP	VOLTS	PHASE	# SPDS		
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PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	MANUFACTURER AND MODEL NUMBER OR APPROVED EQUAL	ROUGH-IN REQUIREMENTS				ACCESSORIES		
			DRAIN	VENT	COLD	HOT			
WC-1	WATER CLOSET FLOOR MOUNTED BOTTOM OUTLET MANUAL FLUSHOMETER	KOHLER K-96057-SS-0	3"	1-1/2"	1-1/2"	-	BOWL: ELONGATED, ADA COMPLIANT, VITREOUS CHINA, ANTIMICROBIAL FINISH. SEAT: KOHLER MODEL K-4731-CA-0 WHITE OPEN FRONT TOILET SEAT. FLUSHOMETER: KOHLER MODEL K-76322-CP, MANUAL, 1.6 GPF, 1-1/2" TOP SPUD.		
L-1	LAVATORY WALL MOUNTED VITREOUS CHINA MANUAL FAUCET	KOHLER K-1997-SS4-0	2"	1-1/4"	1/2"	1/2"	LAVATORY: ADA COMPLIANT, VITREOUS CHINA, ANTIMICROBIAL FINISH, OVAL BASIN, OVERFLOW DRAIN, 3-HOLE 4-INCH CENTER. PROVIDE WITH K-8998 P-TRAP AND K-1998-SS-0 SHORUD AND MOUNTING BRACKET. FAUCET: MOEN COMMERCIAL, MODEL 8884(CHROME), 0.5 GPM, VANDAL RESISTANT AERATOR.		
HB-1	WALL HYDRANT WALL MOUNTED	ZURN Z1345	-	-	3/4"	-	HYDRANT: ZURN MODEL Z1345 EXPOSED NON-FREEZE ANTI-SIPHON DRAINING WALL FAUCET, EXTERIOR CHROME FINISH, BRASS CASING, ALL BRONZE INTERIOR PARTS AND HAND OPERATION.		
FD-1	FLOOR DRAIN	ZURN ZN415-BZ1	LINE SIZED	LINE SIZED	-	-	DRAIN: ZURN MODEL ZN415-BZ1 CAST IRON FLOOR DRAIN WITH NICKEL BRONZE TOP, PROVIDE WITH Z1072 TRAP GUARD.		
WCO	WALL CLEANOUT	ZURN Z-1446	2" TO 4"	-	-	-	ZURN MODEL Z1446 CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT ABS TAPERED PLUG, AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.		





NORTH
DOMESTIC WATER RISER PLAN
ALAMEDA ZOO NTS
1
MP401

NORTH
SEWER AND VENT RISER PLAN
ALAMEDA ZOO NTS
2
MP401

**Alamogordo
Park Restrooms**

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

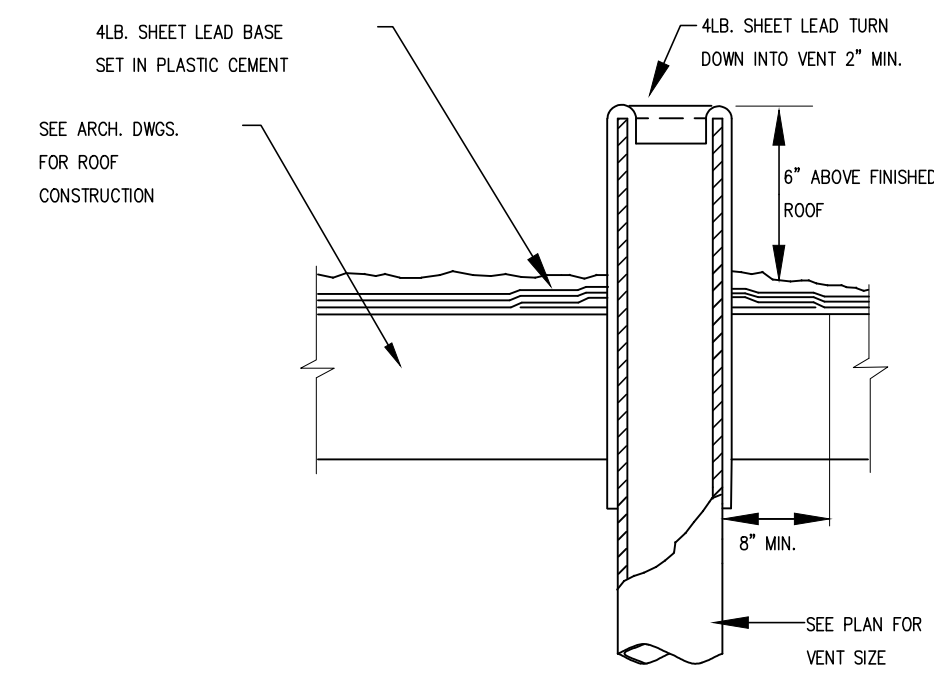
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Project no: 21.16
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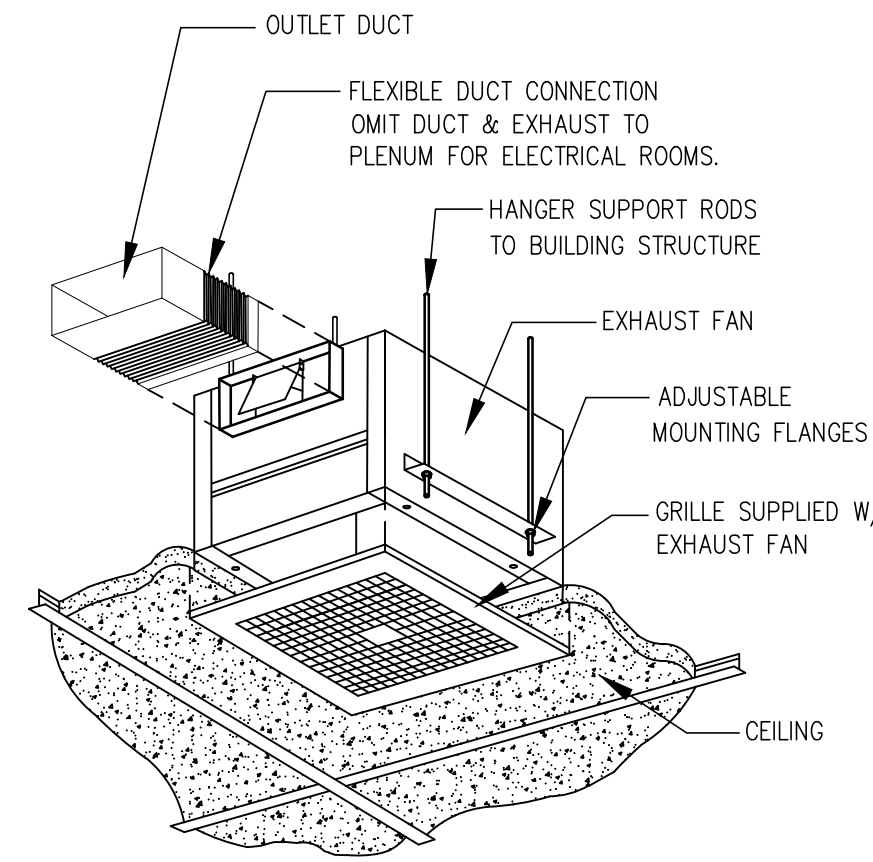
**BIDLOT-3
ISOMETRIC
PLANS**

MP401

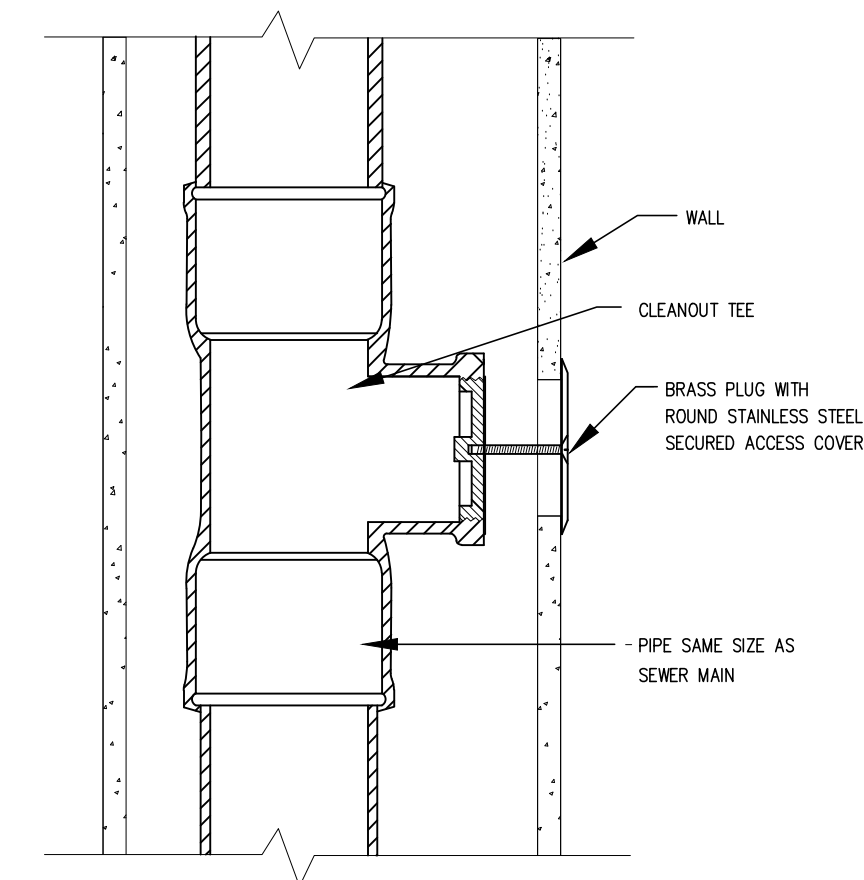




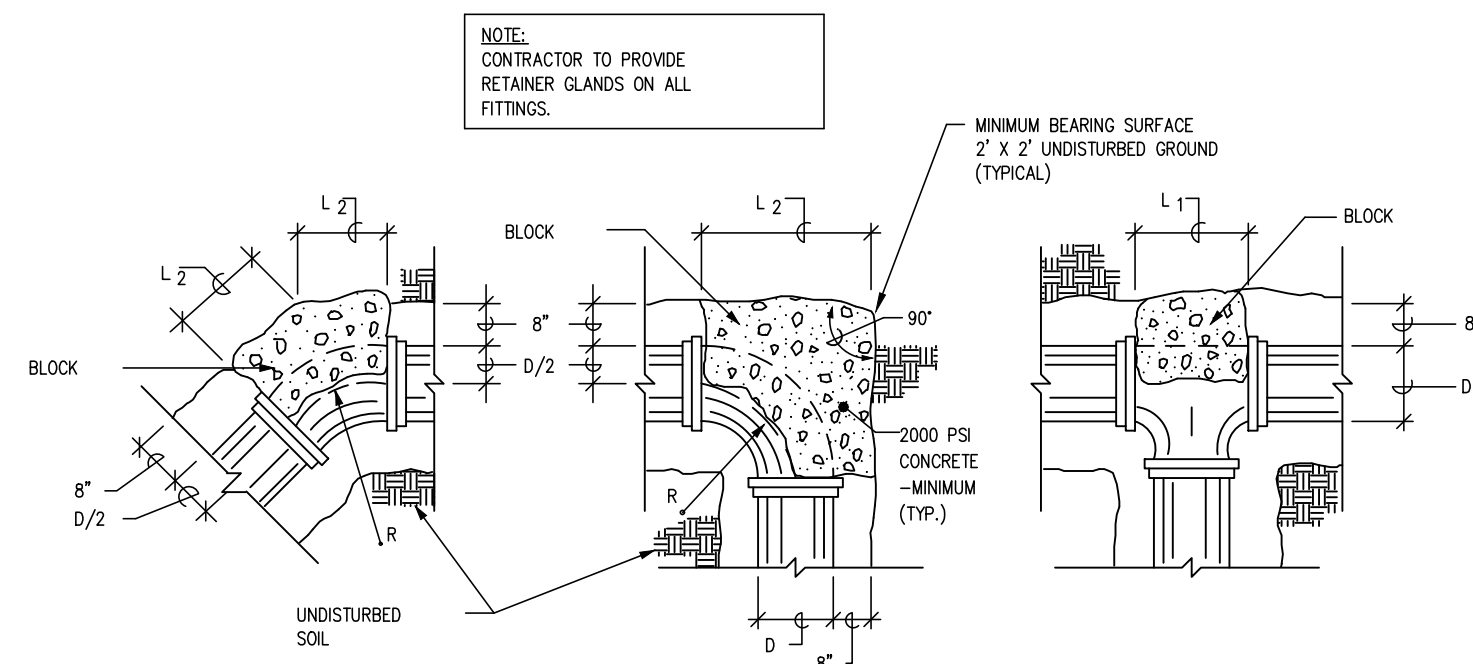
1 VENT THRU ROOF
MP500 NOT TO SCALE



2 EXHAUST FAN DETAIL
MP500 NOT TO SCALE



3 WALL CLEANOUT DETAIL
MP500 NOT TO SCALE



4 THRUST BLOCK DETAIL
MP500 NOT TO SCALE

**Alamogordo
Park Restrooms**

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

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1021 N. White Sands Blvd.
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**MECHANICAL
AND PLUMBING
DETAILS**
MP500



08-31-21

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ELECTRICAL GENERAL NOTES

GENERAL

- A. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZED THEMSELVES WITH THE PROJECT CONDITIONS.
B. THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH ALL ARCHITECTURAL AND MECHANICAL EQUIPMENT AND PROVIDE ELECTRICAL CONNECTIONS IN THIS CONTRACT FOR ANY ITEM REQUIRED.
C. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH PROJECT PRIOR TO THE BID OPENING, TO ALLOW HIM TO SUBMIT A COMPLETE BID WITHIN THE SCOPE OF THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS ARISING DURING THE BID PERIOD, IN REGARD TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF THE WORK OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE ENGINEER FOR CLARIFICATION PRIOR TO AWARD OF CONTRACT.
D. IT WILL BE THE CONTRACTOR'S OBLIGATION TO INCLUDE, IN THEIR BID, THE COSTS FOR INSTALLING JUNCTION BOXES, PROVIDING MISCELLANEOUS COVERS, WORK WITH OTHER DISCIPLINES WHERE THE CONTRACT INVOLVES ELECTRICAL POWER OR CONTROL CONNECTIONS, SWITCHES, ETC. ALL OF THIS WORK SHALL BE PART OF THIS CONTRACT.
E. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED, COORDINATE WITH ARCHITECTURAL DOCUMENTS FOR EXACT LOCATIONS.
F. THE CONDUIT RUNS AS SHOWN ON PLANS INDICATE APPROXIMATE ROUTING. EXACT LOCATION OF CONDUIT RUNS SHALL BE AS FIELD CONDITIONS DICTATE.
G. CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY N.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.
H. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.
I. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS.
J. CONTRACTOR SHALL MAKE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. PROVIDE UPDATED TYPED WRITTEN DIRECTORIES FOR ALL PANELS AND LABEL ALL PANELS WITH PLASTIC LAMINATED NAMEPLATES.
K. INSTALL BLANK DEVICE PLATES ON ALL UNUSED JUNCTION BOXES IN FINISHED AREAS.
L. ALL ELECTRICAL WIRING AND HOME RUN CIRCUITING TO PANELS SHALL BE Routed IN CONDUIT, MIN SIZE 3/4" EMT CONDUIT IF NOT NOTED ON DRAWINGS.
M. REFER TO POWER PLANS FOR DETAILED LAYOUTS OF ELECTRICAL GEAR.
N. AFTER THE CONTRACTOR HAS RECEIVED APPROVED SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION EQUIPMENT, THEY SHALL SUBMIT SCALED LAYOUTS OF ALL ELECTRICAL EQUIPMENT TO THE ENGINEER FOR APPROVAL TO ENSURE THAT ALL CLEARANCE REQUIREMENTS ARE MET. THIS SUBMITTAL SHALL BE PROVIDED WITH SUFFICIENT TIME SO AS NOT INTERFERE WITH THE TIMELY EXECUTION OF THE ROUGH-IN WORK THAT WILL BE REQUIRED.
O. WHEREVER REQUIRED, FURNISH AND INSTALL ON WALL OR CEILING FREESTANDING UNISTRUT CHANNELS, ANGLE IRONS OR ANY OTHER SUPPORT STRUCTURE WITH THREADED ROD HANGERS AS REQUIRED FOR THE SUPPORT OF ELECTRICAL EQUIPMENT OF ANY KIND TO ENSURE PROPER INSTALLATION.
P. ALL NEW WIRING SHALL BE COPPER, MIN #12 THWN CU.
Q. MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIRED. THIS REQUIREMENT ALSO APPLIES TO THE LOCATION OF WALL BOXES FOR HVAC SENSORS, T-STATS, ETC. THIS NOTE APPLIES TO ALL ELECTRICAL SHEETS IN THESE DRAWINGS. OUTLET DEVICES THAT HAVE TO BE RELOCATED DUE TO COUNTERTOP, CHALKBOARD, TACKBOARD, TYPE CONFLICTS WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
R. ELECTRICIAN TO CONFIRM POWER REQUIREMENTS FOR MECHANICAL EQUIPMENT DELIVERED ON SITE.
S. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ARCHITECTURAL WALL OR CEILING.
T. CONTRACTOR SHALL SAW CUT AND PATCH ASPHALT, CONCRETE OR OTHER MATERIAL ENCOUNTERED AS REQUIRED TO INSTALL NEW UNDERGROUND RACEWAY. REFER TO ARCHITECTURAL REGARDING PATCHING REQUIREMENTS.
U. CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LAY-IN FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN AND MECHANICAL DIFFUSERS PRIOR TO INSTALLATION OF FIXTURES.
V. PROVIDE BLANK METAL COVERPLATE OVER ALL UNUSED OUTLET BOXES. PAINT COVERPLATE TO MATCH ADJACENT SURFACES.
W. OUTLET MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT REQUIRED. THIS REQUIREMENT ALSO APPLIES TO SWITCHES, TELEPHONE OUTLETS, DATA OUTLETS, HVAC SENSORS, ETC.. ANY DEVICE THAT HAS TO BE RELOCATED DUE TO CONTRACTOR'S FAILURE TO COORDINATE LOCATION WITH COUNTERTOPS, CHALKBOARDS, TACKBOARDS, ETC. WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
X. ALL RECEPTABLES TO BE 20A COMMERCIAL GRADE, IVORY. WALL PLATES TO MATCH ISOLATED GROUND DUPLEX RECEPTABLES (IC) WILL BE ORANGE BODY AND FACE PLATE.
Y. INSTALL WALL MOUNTED LIGHT FIXTURES, SWITCHES, OUTLETS, AND COMMUNICATION DEVICES IN STRICT COORDINATION WITH ARCHITECTURAL DETAILS, SECTIONS AND ELEVATIONS.
Z. FIRESTOPPING OF PENETRATIONS IN FIRE-RATED WALLS, FLOORS, ETC. SHALL BE DONE BY A FIRESTOPPING CONTRACTOR. ELECTRICAL CONTRACTOR SHALL MAKE REQUIRED PENETRATIONS IN RATED WALLS, FLOORS, ETC. NEATLY AND WITH A CUTTING TOOL. THE CONTRACTOR SHALL MAKE THE PENETRATIONS NO LARGER THAN NECESSARY, AND THE CONTRACTOR SHALL COORDINATE ALL SUCH PENETRATIONS WITH THE FIRE STOPPING CONTRACTOR BEFORE SUCH PENETRATIONS ARE MADE.
AA. PROVIDE 1" CONDUIT WITH PULLSTRING FROM COMMUNICATION OUTLETS TO ABOVE SUSPENDED CEILING.
BB. SUPPORT ALL FIXTURES FROM STRUCTURE ABOVE. CEILING TILES OR PLASTER CEILING SHALL NOT SUPPORT FIXTURES.
CC. FINISHED FLOOR ELEVATIONS FOR OUTLETS AND OTHER DEVICES ARE TO CENTER OF BOX. WHERE MILLWORK IS PRESENT, BOTTOM OF BOX SHALL BE MINIMUM OF 2" ABOVE BACK- SPLASH, REGARDLESS OF DIMENSION SHOWN ON PLANS.
DD. SUPPORT HORIZONTAL RUNS OF EMT CONDUIT EVERY 10'-0" AND AT EVERY FITTING, BOX, PANEL, ETC..
EE. USE GLAND RING COMPRESSION THREADED FITTINGS WITH INSULATED THROAT FOR EMT CONDUIT, DOUBLE SET SCREW FITTINGS ARE ACCEPTABLE FOR 2-1/2" CONDUIT AND LARGER ONLY.
FF. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR THE MECHANICAL EQUIPMENT'S ELECTRICAL REQUIREMENTS, INCLUDING POWER, CONTROL, COMMUNICATION, AND MONITORING, OF EACH DEVICE PROVIDED AND/OR INSTALLED BY MECHANICAL CONTRACTOR.
GG. BEFORE INSTALLATION, EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, ANY DEVICE WITH ELECTRICAL CONNECTIONS, DUCTWORK, INSULATION, PIPING, VALVES, AIR DEVICES, ETC., SHALL NOT BE STORED DIRECTLY ON GRADE OR ON A SLAB OR FLOOR. BEFORE AND AFTER INSTALLATION, SUCH EQUIPMENT AND DEVICES SHALL BE PROTECTED FROM ENTRY OF DIRT, TRASH, WATER (EXCEPT AS REQ'D), VERMIN, ETC..
HH. DEVICES THAT MIGHT CAUSE OR OPERATE WITH VIBRATION OR NOISE SHALL BE ISOLATED PER MANUFACTURER'S RECOMMENDATIONS.
II. ELECTRICAL DEVICE INSTALLATION SHALL COMPLY WITH ACCESSIBILITY CODES ADOPTED FOR NEW MEXICO. SPECIFICALLY MOUNT APPLICABLE SWITCHES, RECEPTABLES, AND ENVIRONMENTAL CONTROLS SO THAT THEY ARE MOUNTED WITH THE TOP OF THE DEVICE NO HIGHER THAN FOURTY-EIGHT (48 INCHES) ABOVE THE FINISH FLOOR AND THE BOTTOM OF THE DEVICE NO LOWER THAN FIFTEEN INCHES (15 INCHES) ABOVE THE FINISHED FLOOR. ELECTRICAL DEVICES ABOVE A COUNTERTOP OR OTHER OBSTRUCTION SHOULD COMPLY WITH ICC/ANSI 117.1-2003 SECTION 308.
JJ. EXTERIOR LIGHTING SHALL COMPLY WITH THE LAS CRUCES OUTDOOR LIGHTING ORDINANCE AND THE NEW MEXICO NIGHT SKY PROTECTION.
KK. THE MEANS OF EGRESS TRAVEL SHALL BE ILLUMINATED AT ANY TIME THE BUILDING IS OCCUPIED WITH A LIGHT INTENSITY OF NOT LESS THAN 1 FOOT CANDLE AT THE FLOOR LEVEL.
LL. ABANDONED POWER WIRING WILL BE REMOVED BACK TO THE SOURCE. THE ACCESSIBLE PORTIONS OF ABANDONED CONDUIT/TUBING AND EQUIPMENT SHALL BE REMOVED. THE ACCESSIBLE PORTIONS OF ABANDONED CABLES (VOICE, DATA, VIDEO, ALARM, ETC.) SHALL BE REMOVED.
MM. ALL CONDUIT INSTALLED ON THE ROOF MUST BE SUPPORTED, WITH CONDUIT SUPPORTS EVERY 10'-0" CONDUIT SUPPORT TO BE DURA-BLOCK, CONTRACTOR TO PROVIDED SIZED AND ACCESSORIES REQUIRED.
NN. ALL GFCI RATED RECEPTACLE SHALL BE INSTALLED IN AN ACCESSIBLE SERVICE LOCATION. IT SHALL NOT BE INSTALLED BEHIND ANY EQUIPMENT. IF NEEDED CONTRACTOR SHALL HAVE THE OPTION TO PROVIDE A GFCI RATED CIRCUIT BREAKER WHERE REQUIRED BY CODE. ALL EQUIPMENT GFCI RATED RECEPTABLES SHALL NOT BE INSTALLED MORE THAN 12" FROM SERVING EQUIPMENT. COORDINATE ALL LOCATIONS WITH EQUIPMENT INSTALLER BEFORE DOING ANY WORK.

CONTRACTOR IS RESPONSIBLE TO OBTAIN AND VERIFY WITH ARCHITECT AND CITY FOR LATEST PLANS.

ELECTRICAL SYMBOL LEGEND

Table with columns: A OR AMP, AMPERE, NEC, NATIONAL ELECTRIC CODE. Includes symbols for AF, AFF, AHU, AIC, AL, AC, COND./C, CKT, CLG, CONN, CU, DISC, EM, EQUIP, EWC, EWH, FA, FLA, FLOUR, F, GF, GND, GRS, HP, HZ, IC, J-BOX, KV, KVA, KW, LTG, MC/MECH, MCM, MTD, NC, etc.

FIRE ALARM SYSTEM SYMBOLS

Table with columns: SYMBOL, DESCRIPTION, MTS. HT. Includes symbols for fire alarm control panel, remote annunciator, key pad, etc.

DEFINITIONS

- CONTRACTOR: MEANS THE PERSON(S), FIRM OR COMPANY WHOSE TENDER FOR THE ELECTRICAL INSTALLATION HAS BEEN ACCEPTED BY THE EMPLOYER AND INCLUDE THE CONTRACTOR'S PERSONAL REPRESENTATIVE, SUCCESSOR, AND PERMITTED ASSIGNS.
DRAWINGS: MEANS THE DRAWINGS REFERRED TO IN THE CONTRACT AND ANY MODIFICATION OF SUCH DRAWINGS APPROVED BY THE ARCHITECT AND SUCH OTHER DRAWINGS AS MAY FROM TIME TO TIME BE FURNISHED OR APPROVED IN WRITING BY ARCHITECT.
EQUIPMENT SUPPLIER: MEANS A PERSON WHO GENERATE, SUPPLIES AND SELLS SPECIAL EQUIPMENT FOR USE IN THE PROJECT.
PROVIDE: FURNISH AND INSTALL, UNLESS OTHERWISE NOTED.
OR EQUAL: EQUAL IN QUALITY AND FUNCTION.
INSTALL: FURNISH AND INSTALL, UNLESS OTHERWISE NOTED.

ELECTRICAL SYMBOL LEGEND

1. THESE SYMBOLS COMPRISE A STANDARD LIST; NOT ALL SYMBOLS MAY APPEAR ON THIS PROJECT.
2. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINISHED FLOOR, MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL WALL ELEVATIONS OR AS NOTED SPECIFICALLY ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED BELOW.

Table with columns: SYMBOL, DESCRIPTION, MTS. HT. Includes symbols for lighting fixtures (A, E, E-1, E-2, P2, E, EM, X1, S), power symbols (JUNCTION BOX, DUPLEX RECEPTACLE, etc.), special systems symbols (DATA/TEL. BOX, etc.), and fire alarm symbols.

ELECTRICAL SPECIFICATIONS

- 1. THE ELECTRICAL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE APPLICABLE AND ADOPTED PROVISIONS OF THE NATIONAL ELECTRICAL CODE, ENERGY CODE AS ADOPTED AND INTERPRETED BY THE STATE OF NEW MEXICO AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REGULATIONS, CURRENT ADOPTED EDITION REGARDING MECHANICAL SYSTEMS, FIRE SYSTEMS AND ELECTRICAL SYSTEMS. ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH RULES, REGULATIONS, AND ORDINANCES SHALL BE PROVIDED. WHERE THE DRAWINGS INDICATE MATERIALS OR CONSTRUCTION IN EXCESS OF CODE REQUIREMENTS, THE OWNER, ARCHITECT, AND ENGINEERS ARE FREE AND HARMLESS FROM LIABILITY OF ANY NATURE OR KIND ARISING FROM HIS FAILURE TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
2. ALL WORK SHALL CONFORM WITH FEDERAL, STATE, AND LOCAL CODES, RULES, AND REGULATIONS. ALL WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE SYSTEMS SHALL BE INSTALLED COMPLETE AND FULLY OPERATIVE UNLESS OTHERWISE INDICATED.
3. ALL MATERIALS SHALL BE NEW, EXCEPT WHERE NOTED OTHERWISE. ALL WORK SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED AND SHALL BE EXECUTED IN A WORKMANLIKE MANNER.
4. REQUIRED INSURANCE SHALL BE PROVIDED BY THIS CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK. CONTRACTOR SHALL SECURE AND PAY ALL PERMITS, FEES, INSPECTIONS, AND TESTS UNLESS OTHERWISE INDICATED. COORDINATE WITH ARCHITECT, ENGINEER, OR OWNER, SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THE CONTRACTOR.
5. CONTRACTOR SHALL SUBMIT SPECIFIC INFORMATION ON LIST OF EQUIPMENT AND PRINCIPAL MATERIAL SPECIFIED. CONTRACTOR SHALL INDICATE AND/OR PROVIDE NAME OF MANUFACTURERS, CATALOG AND MODEL NUMBERS, CUT SHEETS, AND SUCH SUPPLEMENTARY INFORMATION AS NECESSARY FOR EVALUATION. MINIMUM OF SIX (6) COPIES, OR AS DIRECTED BY THE ENGINEER, OF EACH SECTION SHALL BE SUBMITTED AND SHALL INCLUDE ALL ITEMS MENTIONED BY MODEL NUMBER AND/OR MANUFACTURER'S NAME IN THE SPECIFICATION OR IN SCHEDULES ON THE DRAWINGS.
6. PROVIDE THE OWNER WITH THREE (3) COPIES OF ALL INSTALLATIONS INSTRUCTIONS, PRODUCT DATA SUBMITTAL INFORMATION, WARRANTIES, CONTRACT INFORMATION DURING WARRANTY PERIOD AND BALANCING REPORTS IN 3-RING BINDERS.
7. ALL SYSTEMS AND COMPONENTS SHALL BE APPROVED FOR THE PURPOSE FOR WHICH INSTALLED. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND FROM ESTABLISHED AMERICAN SUPPLIERS UNLESS OTHERWISE INDICATED.
8. THE CONTRACTOR SHALL COORDINATE WITH OWNER, ARCHITECT, AND/OR ENGINEER ANY WORK THAT HAS THE POTENTIAL TO HINDER ELECTRICAL SERVICES TO AREA OUTSIDE OF THIS CONTRACT. ALL SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS SHALL BE SCHEDULED AND SUBMITTED IN WRITING TO BE APPROVED BY THE OWNER'S FACILITY MANAGEMENT, OWNER, ARCHITECT, OR ENGINEER. CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE FOR PHASING OF CONSTRUCTION THAT INDICATES AREAS OF FIRST PRIORITY DURING EACH PHASE AND ANTICIPATED COMPLETION TIMES. SCHEDULES SHALL BE SUBMITTED A MINIMUM OF ONE WEEK PRIOR TO COMMENCING WORK. FACILITY MANAGEMENT, OWNER, ARCHITECT OR ENGINEER SHALL REVIEW THESE SCHEDULES AND NOTIFY CONTRACTOR OF ACCEPTANCE PRIOR TO COMMENCEMENT OF WORK.
9. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND PROVIDE A WRITTEN REPORT TO THE ARCHITECT OFFICE. THIS REPORT SHALL DESCRIBE EXISTING DAMAGE OR OTHER CONDITIONS THAT MAY INTERFERE WITH THIS PROPOSED NEW WORK. THIS SITE SURVEY SHALL ALSO INCLUDE VERIFICATION OF SIZES, LOCATIONS, AND CONDITIONS OF EXISTING UTILITIES.
10. ALL WIRING SHALL BE RUN IN RIGID CONDUIT, INTERMEDIATE METALLIC CONDUIT (IMC) OR ELECTRICAL METALLIC TUBING (EMT) INSTALLED IN ACCORDANCE WITH THE NEC. MC CABLE IS ALLOWED IN WALLS ONLY. ALUMINUM CONDUIT SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS. EMT OR ALUMINUM CONDUIT SHALL NOT BE INSTALLED IN CONCRETE SLABS OR BELOW GRADE. MINIMUM SIZE - 3/4" INCH. ALL CONDUITS CONTAINING POWER CONDUCTORS SHALL CONTAIN A EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC. A #9 PULL WIRE SHALL BE INSTALLED IN EACH EMTY CONDUIT.
11. INCREASE BRANCH CIRCUIT WIRE SIZE AS REQUIRED TO PREVENT EXCESSIVE VOLTAGE DROP AS FOLLOWS: 60' TO 100' - #10 AWG; OVER 100' - #8 AWG.
12. THE CONDUIT SYSTEM AND NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC AND ALL LOCAL CODES AND ORDINANCES. GROUNDING AND BONDING SHALL COMPLY WITH ALL THE APPLICABLE REQUIREMENTS OF THE NEC.
13. USE THE FOLLOWING WIRING COLOR CODE:
A. FOR WIRE SIZES 10 AWG AND SMALLER, INSTALL WIRE COLORS IN ACCORDANCE WITH THE FOLLOWING:
120/208 PHASE A BLACK 277/480 BROWN
PHASE B RED ORANGE
PHASE C BLUE YELLOW
NEUTRAL WHITE GRAY
GROUND GREEN GREEN
SWITCH PINK/PURPLE PINK/PURPLE
14. BURIED ELECTRICAL CONDUITS SHALL BE MARKED PER CODE REQUIREMENTS WITH UNDERGROUND WARNING TAPE 3" BELOW FINISHED GRADE. TAPE SHALL BE 4" WIDE COLORED RED WITH SUITABLE WRITING LEGEND PER ASMB A13.1.
15. CONTRACTOR TO PROVIDE BLANK COVER FOR ALL J-BOXES AND WEATHERPROOF COVERS FOR J-BOXES IN WET LOCATIONS.
16. ENCLOSURES, BOXES, AND COVERS ARE REQUIRED TO CONFORM TO ALL TEST PROVISIONS OF THE MOST CURRENT ANSI/SCTE77. WHEN MULTIPLE TIERS ARE SPECIFIED THE BOXES MUST PHYSICALLY ACCOMMODATE AND STRUCTURALLY SUPPORT COMPATIBLE COVER WHILE POSSESSING THE HEIGHT TIER RATINGS. ALL COVERS ARE REQUIRED TO HAVE THE TIER LEVEL RATING EMBOSSED ON THE SURFACE. IN NO ASSEMBLY CAN THE COVER DESIGN LOAD EXCEED THE DESIGN LOAD OF THE BOX. ALL COMPONENTS IN AN ASSEMBLY (BOX & COVER) ARE MANUFACTURED USING MATCHED SURFING TOOLING. INDEPENDENT THIRD PARTY VERIFICATION OR TEST REPORTS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER CERTIFYING THAT ALL TEST PROVISIONS OF THIS SPECIFICATION HAVE BEEN MET ARE REQUIRED WITH EACH SUBMITTAL. CONTRACTOR TO ENSURE EXACT LOCATION AND PLACEMENT OF BOXES AND COVERS AND PROVIDE THE RATING REQUIRED BY LOCAL AND NATIONAL CODES.



**Alamogordo
Park Restrooms**

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION	DATE

 **ELECTRICAL SITE PLAN** 1
BALLOON PARK NTS E101

ELECTRICAL SITE PLAN KEYED NOTES

1. CONNECT PANEL TO 400A SERVICE MAIN DISCONNECT.



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**ELECTRICAL
SITE
PLAN
E101**



ELECTRICAL SITE PLAN KEYED NOTES

1. CONNECT TO EXISTING ELECTRICAL PANEL IN EXISTING BUILDING.

Alamogordo Park Restrooms

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Lavelle Rd.
Alamogordo, New Mexico

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ELECTRICAL SITE PLAN
E102



08-27-21



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Alamogordo Park Restrooms

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
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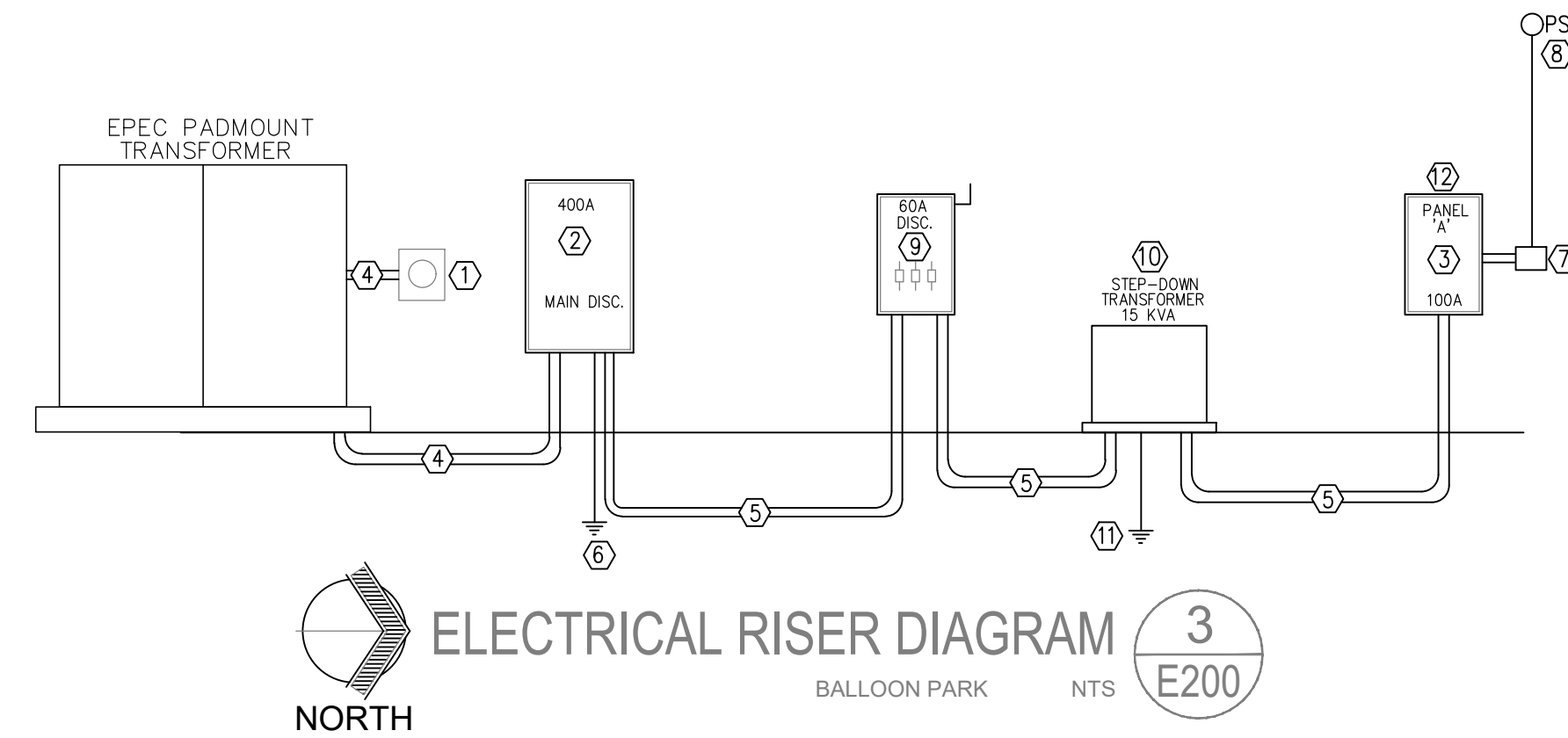
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BIDLOT-1 ELECTRICAL PLAN E200

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ELECTRICAL RISER DIAGRAM KEYED NOTES

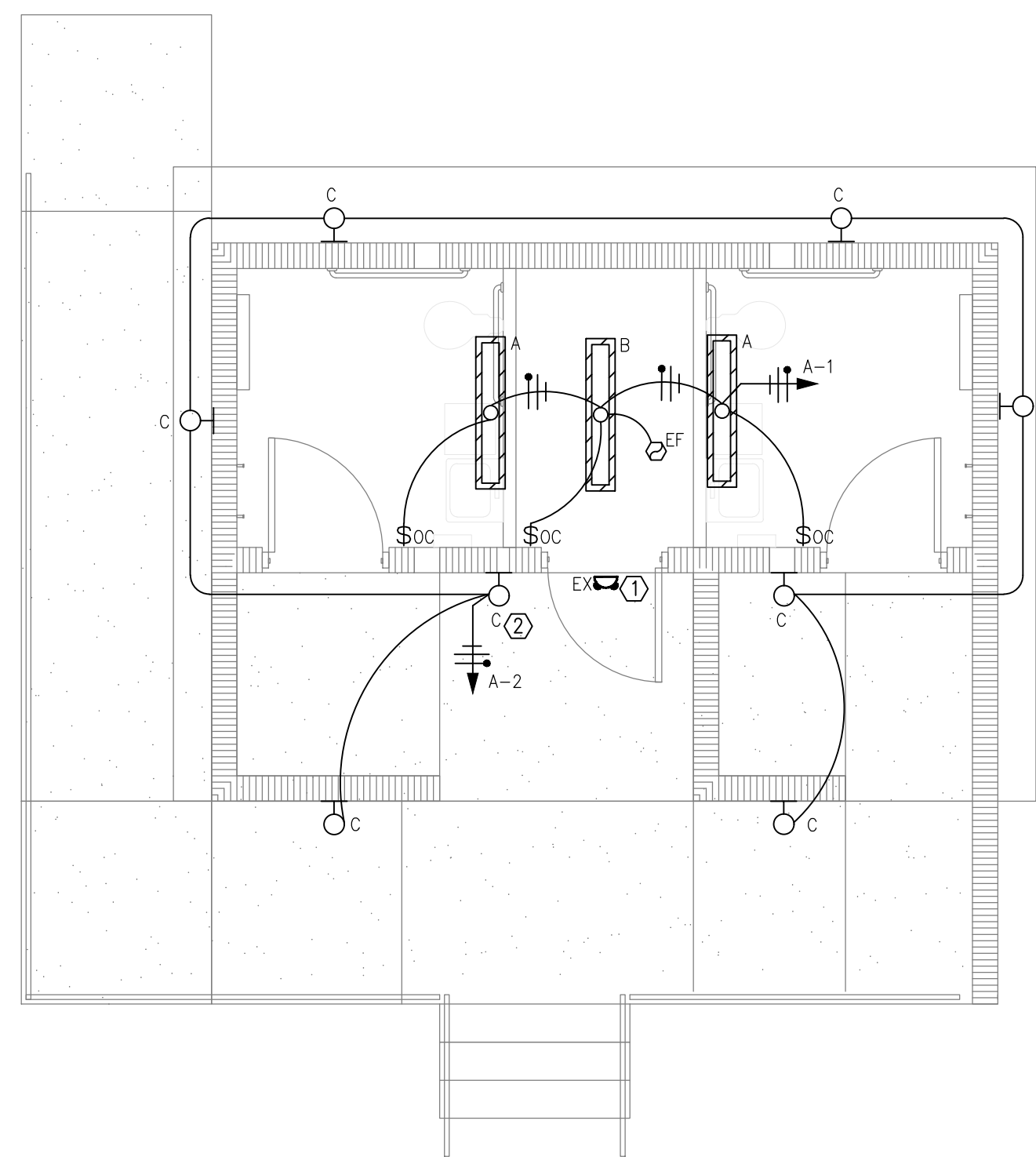
- EXISTING ELECTRIC METER
- MAIN DISCONNECT SERVICE: 400A, 480Y/277V, 3 PHASE, 4 WIRE WITH A 300A MAIN.
- PANEL 'A' 100A, 240/120V, 1 PHASE, 3 WIRE, REFER TO PANEL SCHEDULE.
- 3" CONDUIT WITH 4-#350MCM CU. CONDRS.
- 1" CONDUIT WITH 3-#6 THWN CU. CONDUCTORS AND 1-#8 CU. GROUND.
- EXISTING GROUNDING SYSTEM.
- PROVIDE NEMA 3R, HINGED, WITH LOCKABLE COVER LARGE ENOUGH TO FIT TIME CLOCK, 4 POLE LIGHTING CONTACTOR, AND ASSOCIATED DEVICES.
- PHOTOCELL ON ROOF, FACING SOUTH.
- DISCONNECT 'A': 60A, 240Y/120V, 1 PHASE, 3 WIRE, NEMA 3R.
- NEW 15 KVA, 480-240/120V, 1PH, 3W, STEP DOWN TRANSFORMER. DELTAY-WYE, TP-1 COMPLIANT, K-4 FACTOR, FIRE RATED, CU. WINDINGS, LOW NOISE RATED.
- GROUND SYSTEM PRE SCHEMATIC 1/E300
- ELECTRICAL PANELS TO BE SQUARE D. REFER TO ARCHITECT FOR EXACT REQUIREMENTS.

PANEL OR LOAD CENTER - A															
LOAD TYPE	CKT. NO.	DESCRIPTION	FEED CODE	AMPS	POLE	LOAD KVA	A	C	LOAD KVA	POLE	AMPS	FEED CODE	DESCRIPTION	CKT. NO.	LOAD TYPE
LT	1	BATHROOM LIGHTS		20	1	0.1	0.22		0.12	1	20		OUTSIDE LIGHTS	2	LT
RE	3	HAND DRYER		20	1	0.8		1.6	0.8	1	20		CHASE OUTLET	4	RE
RE	5	HAND DRYER		20	1	0.8	2.3		1.5	1	20		PIPE HEATING	6	RE
	7	SPARE		20	1			0		1	20		SPARE	8	
	9	SPARE		20	1		0			1	20		SPARE	10	
	11	SPARE		20	1			0		1	20		SPARE	12	
	13	SPARE		20	1		0			1	20		SPARE	14	
	15	SPARE		20	1			0		1	20		SPARE	16	
						TOTAL KVA	2.52	1.6							
						TOTAL AMPS	21.0	13.3							

PANEL OR LOAD CENTER INFORMATION													
LOAD TYPE	CONNECTED KVA	CONNECTED AMPS	DESIGN FACTOR	DESIGN LOAD KVA	DESIGN LOAD AMPS								
LIGHTS	0.2	0.9	1.25	0.28	1.1								
RECEPTACLES	3.90	16.3	1.0	3.90	16.3								
MOTOR	0.00	0.0	NEC	0.00	0.0								
AC	0.00	0.0	1.25	0.00	0.0								
KITCHEN	0.00	0.0	1.0	0.00	0.0								
OTHER	0.00	0.0	NEC	0.00	0.0								
TOTAL	4.12	17.2		4.18	17.4								

PANEL OR LOAD CENTER - H																
LOAD TYPE	CKT. NO.	DESCRIPTION	FEED CODE	AMPS	POLE	LOAD KVA	A	B	C	LOAD KVA	POLE	AMPS	FEED CODE	DESCRIPTION	CKT. NO.	LOAD TYPE
OT	1	EXISTING LOAD		40	2	2.0	4			2	2	40		EXISTING LOAD	2	OT
OT	3	EXISTING LOAD		2.0			4							EXISTING LOAD	4	OT
OT	5	EXISTING LOAD		2.0				4		2	2	40		EXISTING LOAD	6	OT
OT	7	EXISTING LOAD		2.0			4			2	2	40		EXISTING LOAD	8	OT
OT	9	EXISTING LOAD		2.0				4		2	2	40		EXISTING LOAD	10	OT
OT	11	EXISTING LOAD		2.0					4	2	2	40		EXISTING LOAD	12	OT
OT	13	EXISTING LOAD		2.0			4			2	2	40		EXISTING LOAD	14	OT
OT	15	EXISTING LOAD		2.0				4		2	2	40		EXISTING LOAD	16	OT
OT	17	EXISTING LOAD		1.0					3	2	2	40		EXISTING LOAD	18	OT
OT	19	EXISTING LOAD		30	3	1.0	3			2	2	40		EXISTING LOAD	20	OT
OT	21	EXISTING LOAD						6		5				EXISTING LOAD	22	OT
OT	23	PANEL 'A'		35	2	1.0			6.02	5	3	100		EXISTING LOAD	24	OT
OT	25	120/240, 1PH				1.6	6.6			5				EXISTING LOAD	26	OT
	27	SPARE		20	1					0		1	20	SPARE	28	
	29	SPARE		20	1					0		1	20	SPARE	30	
						TOTAL KVA	21.6	18	17.02							
						TOTAL AMPS	78.0	65.0	61.4							

PANELBOARD INFORMATION													
LOAD TYPE	CONNECTED KVA	CONNECTED AMPS	DESIGN FACTOR	DESIGN LOAD KVA	DESIGN LOAD AMPS								
LIGHTS	0.00	0.0	1.25	0.00	0.0								
RECEPTACLES	0.00	0.0	1.0	0.00	0.0								
MOTOR	0.00	0.0	NEC	0.00	0.0								
AC	0.00	0.0	1.25	0.00	0.0								
KITCHEN	0.00	0.0	1.0	0.00	0.0								
OTHER	56.62	68.2	NEC	56.62	68.2								
TOTAL	56.62	68.2		56.62	68.2								



KEYED NOTES

- INSTALL OUTDOOR REMOTE EMERGENCY HEAD ABOVE DOOR, CONNECT AS SHOWN.
- THIS CIRCUIT TO BE WIRED THRU TIMER CONTACTOR, TIMER CONTACTOR TO BE CONTROLLED BY PHOTOCELL.
- LOCATION OF STEP DOWN TRANSFORMER.
- LOCATION OF 60A NON-FUSED DISCONNECT.
- PIPING HEATING, PROVIDE 4" SQ. J-BOX WITH PLASTER RING. COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION.

COMcheck Software Version 4.1.5.3 Exterior Lighting Compliance Certificate

Allowed Exterior Lighting Power				
A Area/Surface Category	B Quantity	C Allowed Watts/Unit	D Tradable Wattage	E Allowed Watts (B X C)
Main entry	4 ft of door	20	Yes	80
Main entry	4 ft of door	20	Yes	80
Entry canopy	4 ft2	0.25	Yes	1
Illuminated area of facade wall or surface	20 ft2	0	No	0
Entry canopy	7 ft2	0.25	Yes	2
Illuminated area of facade wall or surface	20 ft2	0	No	0
Illuminated area of facade wall or surface	15 ft2	0	No	0
				Total Tradable Watts (a) = 163
				Total Allowed Watts = 163
				Total Allowed Supplemental Watts (b) = 500

Proposed Exterior Lighting Power				
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Watt. (C X D)	E (B X C X D)
Main entry (4 ft. of door width): Tradable Wattage	1	1	12	12
C: Other	1	1	12	12
Entry canopy (4 ft2): Tradable Wattage	1	2	12	24
C: Other	1	2	12	24
Illuminated area of facade wall or surface (20 ft2): Non-tradable Wattage	1	2	12	24
C: Other	1	2	12	24
Entry canopy (7 ft2): Tradable Wattage	1	2	12	24
C: Other	1	2	12	24
Illuminated area of facade wall or surface (20 ft2): Non-tradable Wattage	1	1	12	12
C: Other	1	1	12	12
Illuminated area of facade wall or surface (15 ft2): Non-tradable Wattage	1	1	12	12
C: Other	1	1	12	12
				Total Tradable Proposed Watts = 72

Exterior Lighting PASSES: Design 89% better than code
 Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.



KEYED NOTES

- PROVIDE WITH 90 MIN. MINIMUM POWER LIFE BATTERY
 - REMOTE MOUNTED EMERGENCY HEAD, CONNECT TO INTERIOR EXIT SIGN.
 - COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT
 - PROVIDE WITH A WALL BRACKET
 - PROVIDE PENDANT MOUNT SUSPENSION SET
- GENERAL NOTES:
 (A) FIXTURES SELECTED BASED ON PERFORMANCE AND AESTHETICS.
 (B) ARCHITECT TO SELECT ALL FIXTURE FINISH/COLORS PRIOR TO ORDERING LIGHT FIXTURES.
 (C) SUBSTITUTIONS MUST BE PRE-APPROVED. PROVIDE SUBSTITUTION SUBMITTALS FOR REVIEW 10 BUSINESS DAYS PRIOR TO BID DATE.
 (D) CONTRACTOR MUST PROVIDE FULL PHOTOMETRIC STUDIES ON SUBSTITUTION FIXTURES.

COMcheck Software Version 4.1.5.1 Interior Lighting Compliance Certificate

Allowed Interior Lighting Power				
A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)	E (B X C X D)
1-Common Space Types: Restrooms	245	0.98	240	240
				Total Allowed Watts = 240

Proposed Interior Lighting Power				
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Watt. (C X D)	E (B X C X D)
1-Common Space Types: Restrooms	1	2	33	66
A: Other	1	1	33	33
B: Other	1	1	33	33
				Total Proposed Watts = 99

Interior Lighting PASSES: Design 59% better than code
 Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Alamogordo Park Restrooms

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION DATE

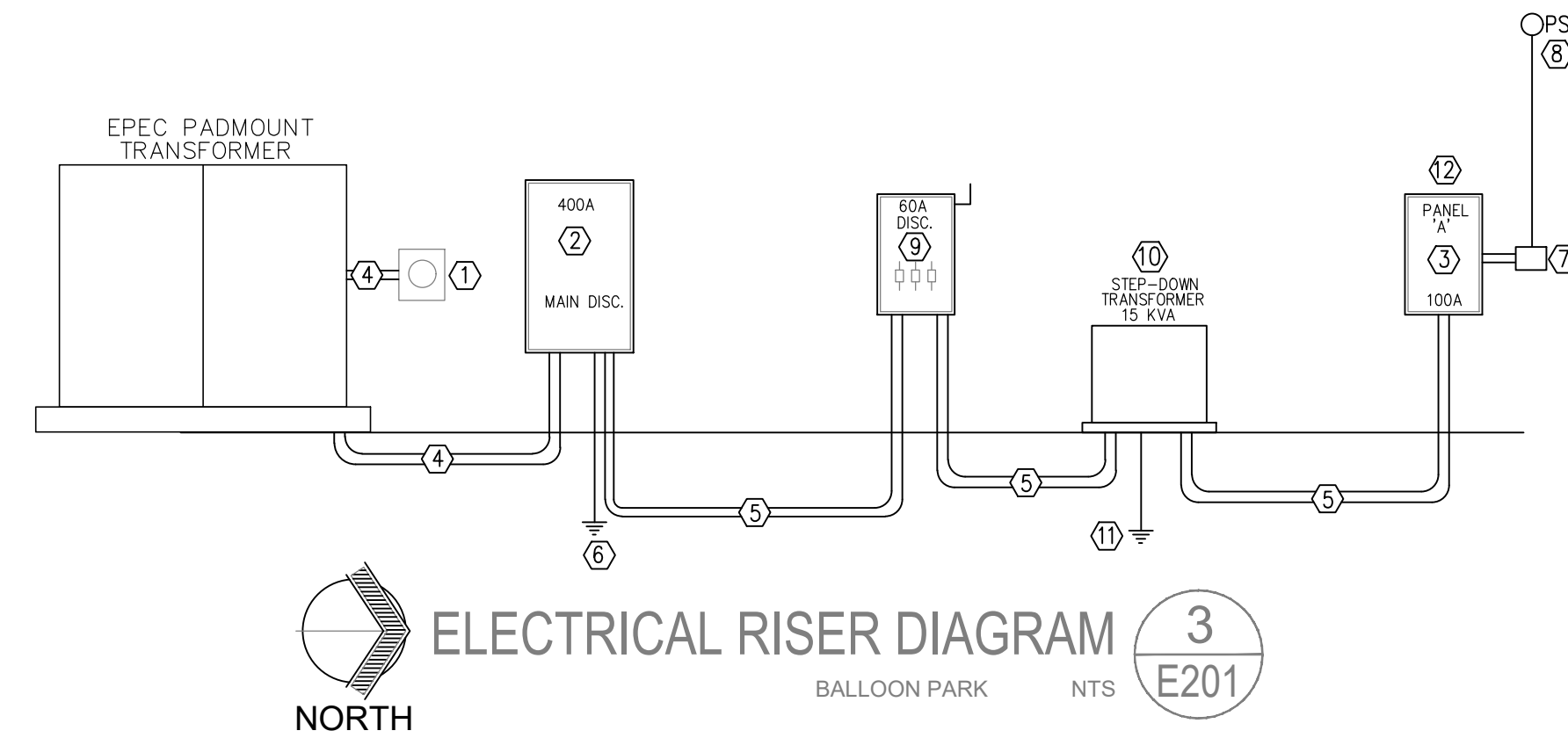
Project no: 21-16
Date: April 2021
Sheet:

BIDLOT-2 ELECTRICAL PLAN E201



08-27-21

21-183



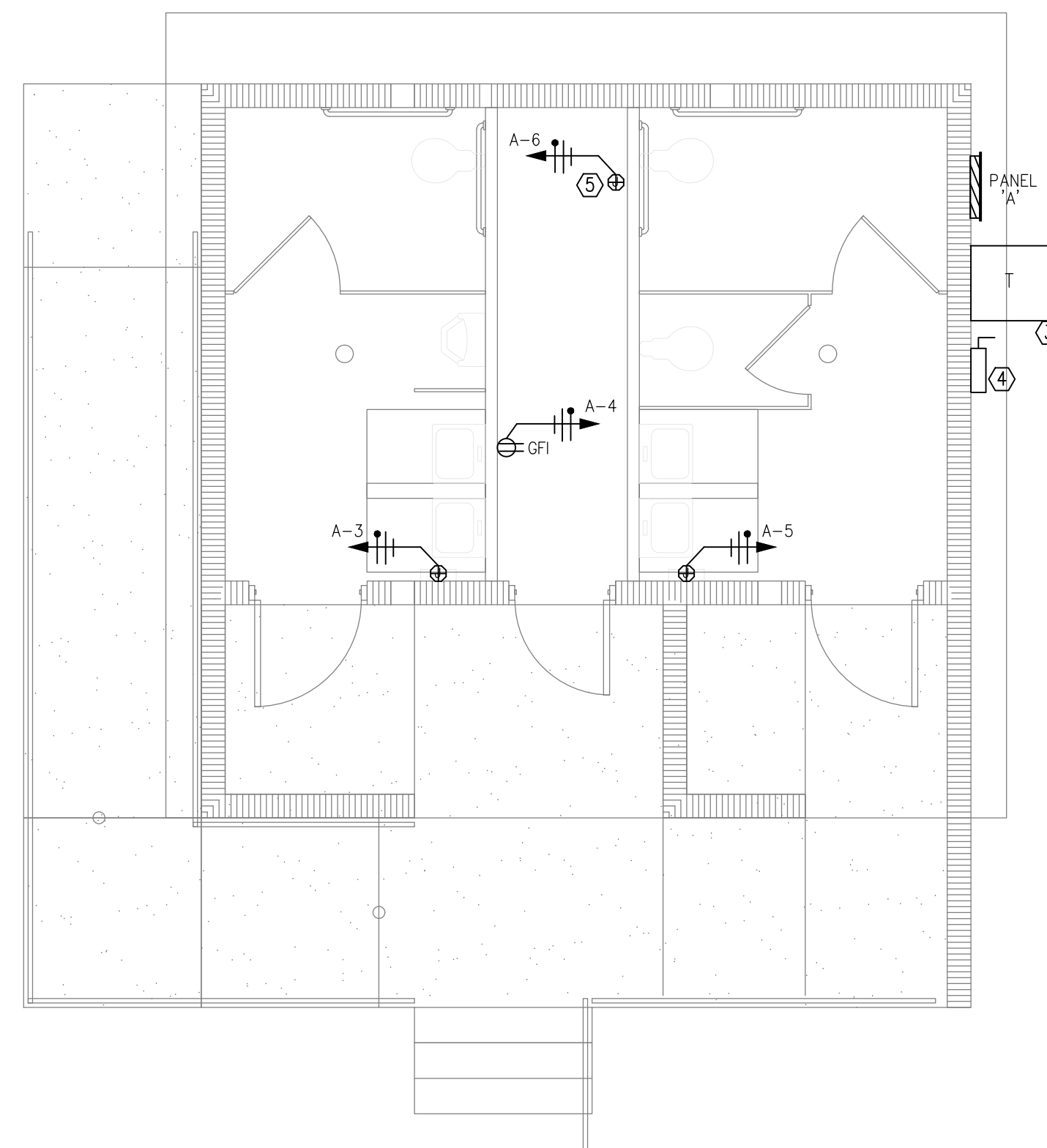
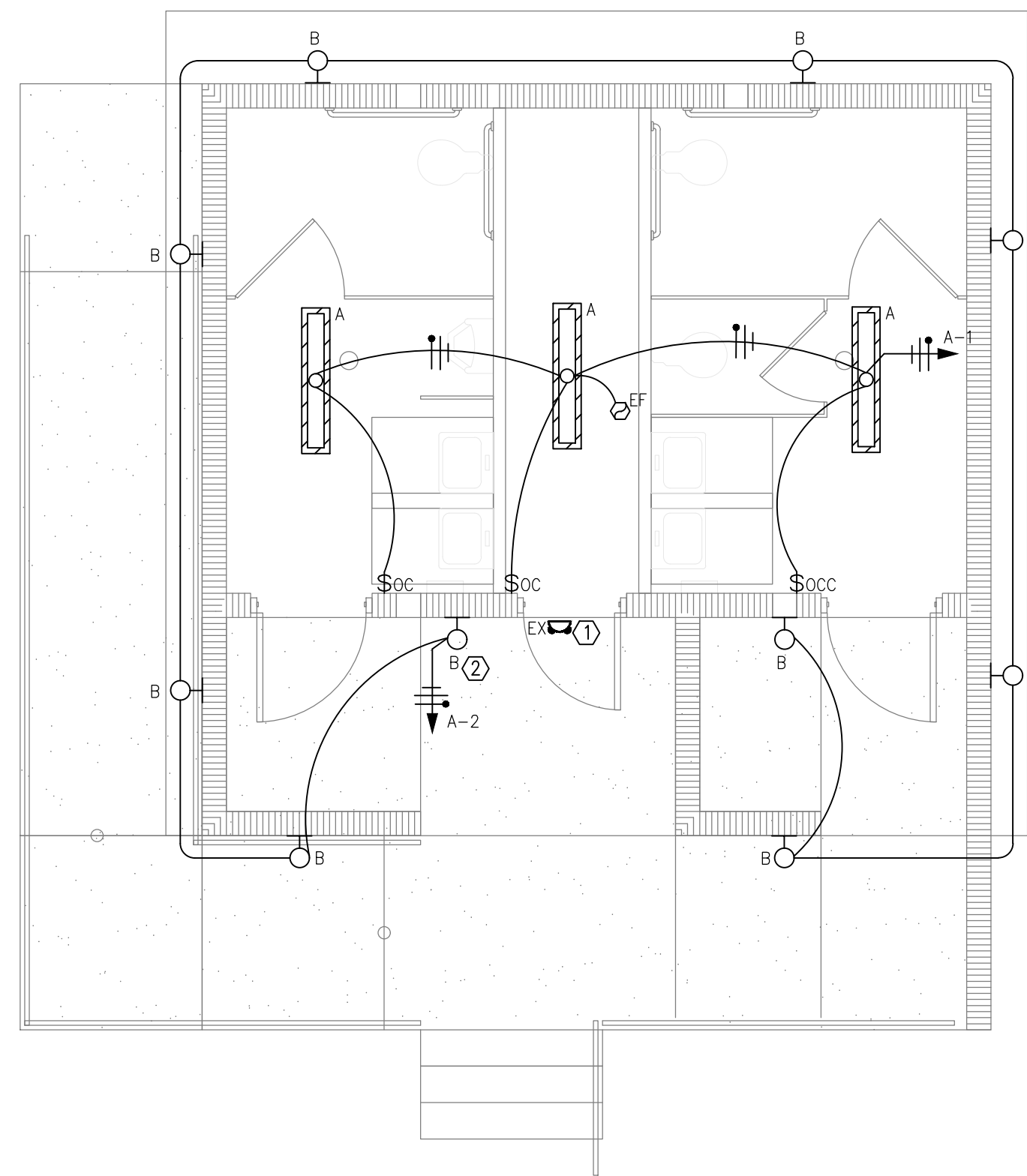
ELECTRICAL RISER DIAGRAM KEYED NOTES

- EXISTING ELECTRIC METER
- MAIN DISCONNECT SERVICE: 400A, 480Y/277V, 3 PHASE, 4 WIRE WITH A 300A MAIN.
- PANEL 'A' 100A, 240/120V, 1 PHASE, 3 WIRE, REFER TO PANEL SCHEDULE.
- 3" CONDUIT WITH 4-#350MCM CU. CONDRS.
- 1" CONDUIT WITH 3-#6 THWN CU. CONDUCTORS AND 1-#8 CU. GROUND.
- EXISTING GROUNDING SYSTEM.
- PROVIDE NEMA 3R, HINGED, WITH LOCKABLE COVER LARGE ENOUGH TO FIT TIME CLOCK, 4 POLE LIGHTING CONTACTOR, AND ASSOCIATED DEVICES.
- PHOTOCELL ON ROOF, FACING SOUTH.
- DISCONNECT 'A': 60A, 240Y/120V, 1 PHASE, 3 WIRE, NEMA 3R.
- NEW 15 KVA, 480-240/120V, 1PH, 3W, STEP DOWN TRANSFORMER. DELTAY-WYE, TP-1 COMPLIANT, K-4 FACTOR, FIRE RATED, CU. WINDINGS, LOW NOISE RATED.
- GROUND SYSTEM PRE SCHEMATIC 1/E300
- ELECTRICAL PANELS TO BE SQUARE D. REFER TO ARCHITECT FOR EXACT REQUIREMENTS.

PANEL OR LOAD CENTER - A															
LOAD TYPE	CKT. NO.	DESCRIPTION	FEED CODE	AMPS	POLE	LOAD KVA	A	C	LOAD KVA	POLE	AMPS	FEED CODE	DESCRIPTION	CKT. NO.	LOAD TYPE
LT	1	BATHROOM LIGHTS		20	1	0.1	0.22		0.12	1	20		OUTSIDE LIGHTS	2	LT
RE	3	HAND DRYER		20	1	0.8		1.6	0.8	1	20		CHASE OUTLET	4	RE
RE	5	HAND DRYER		20	1	0.8	2.3		1.5	1	20		PIPE HEATING	6	RE
	7	SPARE		20	1			0		1	20		SPARE	8	
	9	SPARE		20	1		0			1	20		SPARE	10	
	11	SPARE		20	1			0		1	20		SPARE	12	
	13	SPARE		20	1					1	20		SPARE	14	
	15	SPARE		20	1					1	20		SPARE	16	
						TOTAL KVA	2.52	1.6							
						TOTAL AMPS	21.0	13.3							

PANEL OR LOAD CENTER INFORMATION							
DESIGNATION	A						
MAIN SIZE	100A						
MAIN TYPE	M.L.O.						
VOLTS	120/240						
PHASE	1						
Wire	3						
AIC RATING	12 KAIC						
NEMA TYPE	3R/EXTERIOR						
MOUNTING	SURFACE						
SERVED FROM	15 KVA TRANSFORMER						

LOAD TYPE	CONNECTED		DESIGN FACTOR	DESIGN LOAD	
	KVA	AMPS		KVA	AMPS
LIGHTS	0.2	0.9	1.25	0.28	1.1
RECEPTACLES	3.90	16.3	1.0	3.90	16.3
MOTOR	0.00	0.0	NEC	0.00	0.0
AC	0.00	0.0	1.25	0.00	0.0
KITCHEN	0.00	0.0	1.0	0.00	0.0
OTHER	0.00	0.0	NEC	0.00	0.0
TOTAL	4.12	17.2		4.18	17.4



ALTERNATE LIGHTING PLAN 1 E201
BALLOON PARK 1/4" = 1'-0"

KEYED NOTES

- INSTALL OUTDOOR REMOTE EMERGENCY HEAD ABOVE DOOR, CONNECT AS SHOWN.
- THIS CIRCUIT TO BE WIRED THRU TIMER CONTACTOR, TIMER CONTACTOR TO BE CONTROLLED BY PHOTOCELL.
- LOCATION OF STEP DOWN TRANSFORMER.
- LOCATION OF 60A NON-FUSED DISCONNECT.
- PIPING HEATING, PROVIDE 4" SQ J-BOX WITH PLASTER RING. COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION.

ALTERNATE POWER PLAN 2 E201
BALLOON PARK 1/4" = 1'-0"

LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER/MODEL NO.	SUPPLY	LED		COLOR	MOUNTING	NOTES
			DIM	WATTS	TEMP.		
A	FAIL-SAFE HVSL2-4-LD4-STD-40-UNV-O-EDC1	120V		32.7WLED	40K	WHT	CEILING/WALL [5]
B	LIGHTWAY BUJX-9-LED-4-CBA	120V		12WLED	40K	CBA	WALL [3]
EX	EVENLITE PRWLED-MV	120V		INCLUDED		WH	WALL [2]

NOTES: [1] PROVIDE WITH 90 MIN. MINIMUM POWER LIFE BATTERY
 [2] REMOTE MOUNTED EMERGENCY HEAD, CONNECT TO INTERIOR EXIT SIGN.
 [3] COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT
 [4] PROVIDE WITH A WALL BRACKET
 [5] PROVIDE PENDANT MOUNT SUSPENSION SET

GENERAL NOTES:
 [A] FIXTURES SELECTED BASED ON PERFORMANCE AND AESTHETICS.
 [B] ARCHITECT TO SELECT ALL FIXTURE FINISH/COLORS PRIOR TO ORDERING LIGHT FIXTURES.
 [C] SUBSTITUTIONS MUST BE PRE-APPROVED. PROVIDE SUBSTITUTION SUBMITTALS FOR REVIEW 10 BUSINESS DAYS PRIOR TO BID DATE.
 [D] CONTRACTOR MUST PROVIDE FULL PHOTOMETRIC STUDIES ON SUBSTITUTION FIXTURES.

PANEL OR LOAD CENTER - H																
LOAD TYPE	CKT. NO.	DESCRIPTION	FEED CODE	AMPS	POLE	LOAD KVA	A	B	C	LOAD KVA	POLE	AMPS	FEED CODE	DESCRIPTION	CKT. NO.	LOAD TYPE
OT	1	EXISTING LOAD				2.0	4			2	2	40		EXISTING LOAD	2	OT
OT	3	EXISTING LOAD		40	2	2.0		4		2	2	40		EXISTING LOAD	4	OT
OT	5	EXISTING LOAD		40	2	2.0			4	2	2	40		EXISTING LOAD	6	OT
OT	7	EXISTING LOAD		40	2	2.0	4			2	2	40		EXISTING LOAD	8	OT
OT	9	EXISTING LOAD		40	2	2.0		4		2	2	40		EXISTING LOAD	10	OT
OT	11	EXISTING LOAD		40	2	2.0			4	2	2	40		EXISTING LOAD	12	OT
OT	13	EXISTING LOAD		40	2	2.0	4			2	2	40		EXISTING LOAD	14	OT
OT	15	EXISTING LOAD		40	2	2.0		4		2	2	40		EXISTING LOAD	16	OT
OT	17	EXISTING LOAD				1.0			3	2	2	40		EXISTING LOAD	18	OT
OT	19	EXISTING LOAD		30	3	1.0	3			2	2	40		EXISTING LOAD	20	OT
OT	21	EXISTING LOAD				1.0		6		5				EXISTING LOAD	22	OT
OT	23	PANEL 'A'		35	2	1.0			6.02	5	3	100		EXISTING LOAD	24	OT
OT	25	120/240, 1PH				1.6	6.6			5				EXISTING LOAD	26	OT
	27	SPARE		20	1					0	1	20		SPARE	28	
	29	SPARE		20	1					0	1	20		SPARE	30	
						TOTAL KVA	21.6	18	17.02							
						TOTAL AMPS	78.0	65.0	61.4							

PANELBOARD INFORMATION							
DESIGNATION	H						
MAIN SIZE	400A						
MAIN TYPE	M.L.O.						
VOLTS	277/480						
PHASE	3						
Wire	4						
AIC RATING	12 KAIC						
NEMA TYPE	INTERIOR						
MOUNTING	SURFACE						
SERVED FROM	400A MAIN C.B.						

LOAD TYPE	CONNECTED		DESIGN FACTOR	DESIGN LOAD	
	KVA	AMPS		KVA	AMPS
LIGHTS	0.00	0.0	1.25	0.00	0.0
RECEPTACLES	0.00	0.0	1.0	0.00	0.0
MOTOR	0.00	0.0	NEC	0.00	0.0
AC	0.00	0.0	1.25	0.00	0.0
KITCHEN	0.00	0.0	1.0	0.00	0.0
OTHER	56.62	68.2	NEC	56.62	68.2
TOTAL	56.62	68.2		56.62	68.2

KVA
 PHASE A 21.6
 PHASE B 18
 PHASE C 17.02
 UNBALANCE % 21.20

COMcheck Software Version 4.1.5.3 Exterior Lighting Compliance Certificate

Project Information					
Energy Code:	2015 IECC				
Project Title:	New Construction				
Project Type:	1 (Developed area in national or state park (LZ1))				
Exterior Lighting Zone:					
Construction Site:	Owner/Agent:	Designer/Contractor:			

Allowed Exterior Lighting Power					
A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)	
Main entry 4 ft of door	20	20	Yes	80	
Main entry 4 ft of door	20	20	Yes	80	
Main entry 4 ft of door	20	20	Yes	80	
Illuminated area of facade wall or surface (28 ft2)	0	0	No	0	
Entry canopy (7 ft2)	0.25	Yes	2		
Entry canopy (7 ft2)	0.25	Yes	2		
Illuminated area of facade wall or surface (22 ft2)	0	No	0		
Illuminated area of facade wall or surface (21 ft2)	0	No	0		
				Total Tradable Watts (a) =	244
				Total Allowed Watts =	244
				Total Allowed Supplemental Watts (b) =	500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power					
A Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt. (C X D)	E (C X D)	
Main entry (4 ft. of door width): Tradable Wattage					
B: Other:	1	2	12	24	
B: Other:	1	2	12	24	
B: Other:	1	1	12	12	
Illuminated area of facade wall or surface (28 ft2): Non-tradable Wattage					
B: Other:	1	1	12	12	
Entry canopy (7 ft2): Tradable Wattage					
B: Other:	1	2	12	24	
B: Other:	1	2	12	24	
Illuminated area of facade wall or surface (22 ft2): Non-tradable Wattage					
B: Other:	1	2	12	24	
Illuminated area of facade wall or surface (21 ft2): Non-tradable Wattage					
B: Other:	1	2	12	24	
				Total Tradable Proposed Watts =	108

Exterior Lighting PASSES: Design 85% better than code

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

COMcheck Software Version 4.1.5.3 Interior Lighting Compliance Certificate

Project Information					
Energy Code:	2015 IECC				
Project Title:	New Construction				
Project Type:					
Construction Site:	Owner/Agent:	Designer/Contractor:			

Additional Efficiency Package(s)					
Credits:	1.0 Required	0.0 Proposed			

Allowed Interior Lighting Power					
A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)	E (B X C)	
1-Common Space Types: Restrooms	245	0.98	240		
				Total Allowed Watts =	240

Proposed Interior Lighting Power					
A Fixture ID - Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt. (C X D)	E (C X D)	
1-Common Space Types: Restrooms					
A: Other:	1	3	33	98	
				Total Proposed Watts =	98

Interior Lighting PASSES: Design 59% better than code

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Alamogordo Park Restrooms

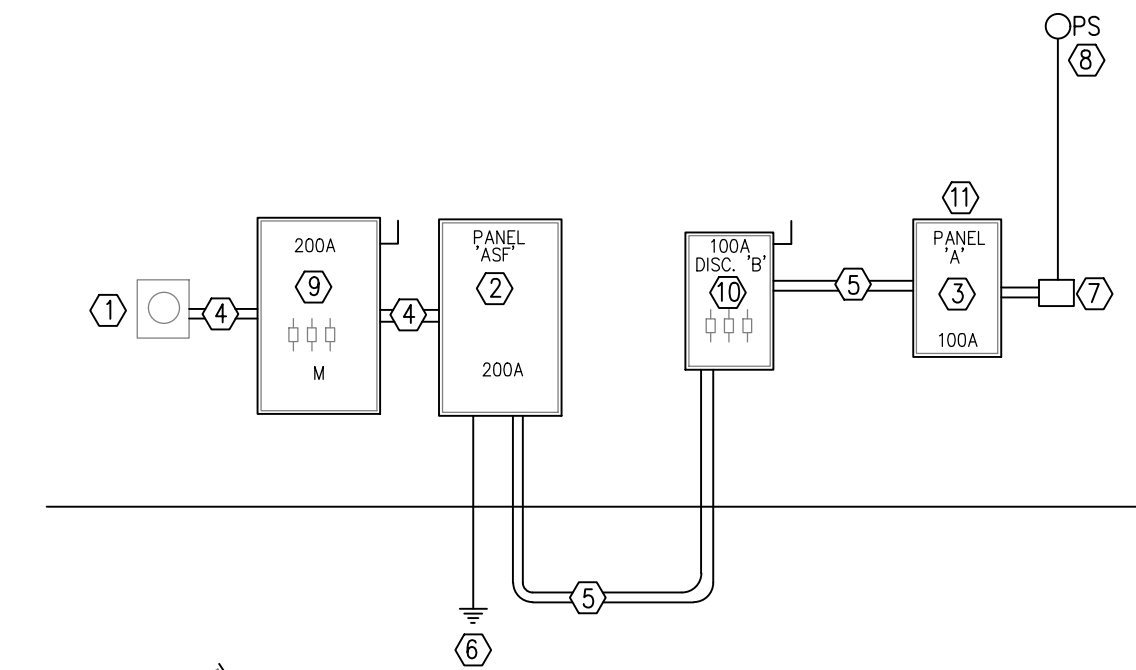
Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION DATE

Project no: 21.16
Date: April 2021
Sheet:

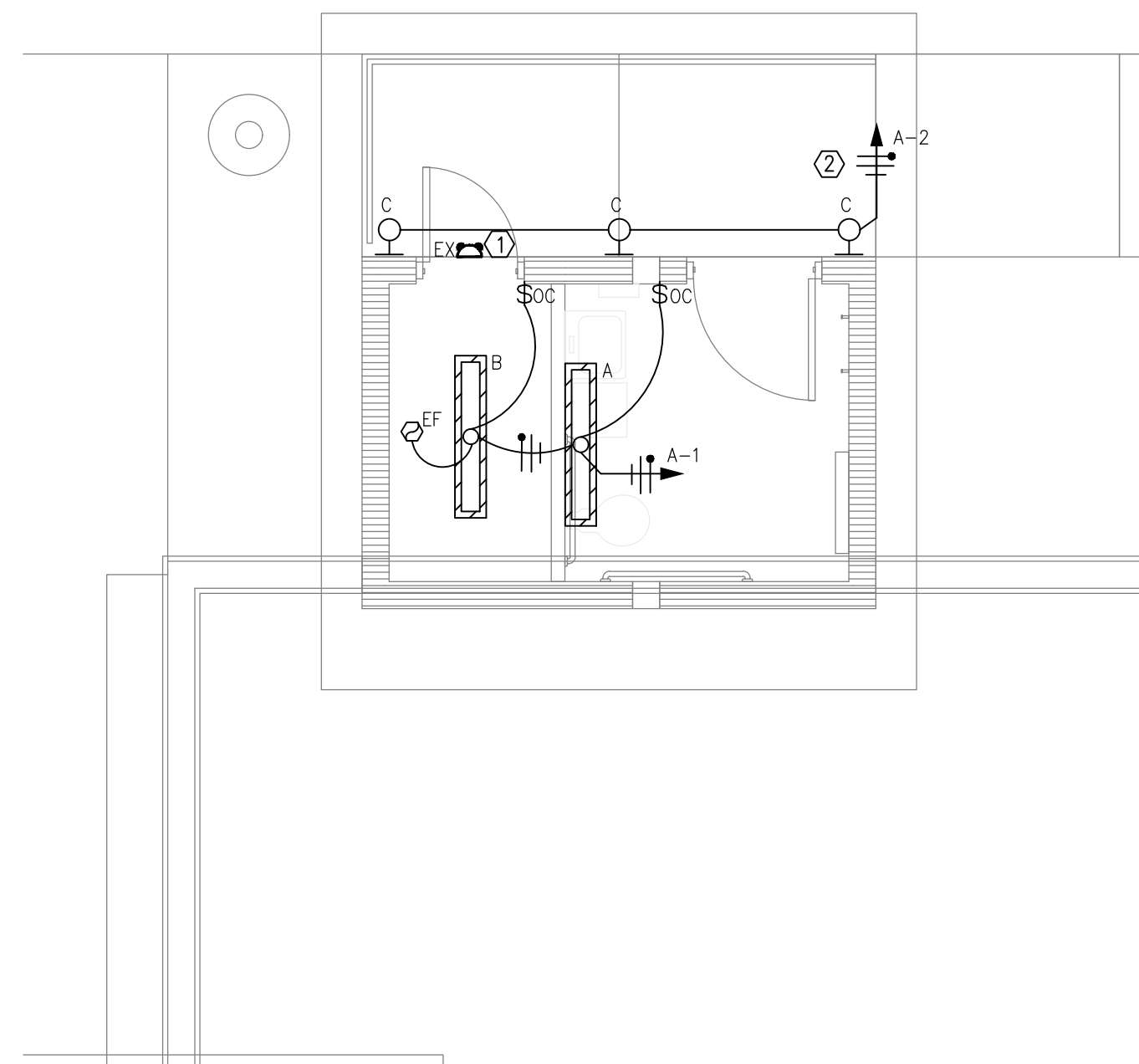
BIDLOT-3 ELECTRICAL PLAN E202



ELECTRICAL RISER DIAGRAM 3
ALAMEDA ZOO NTS E202

ELECTRICAL RISER DIAGRAM KEYED NOTES

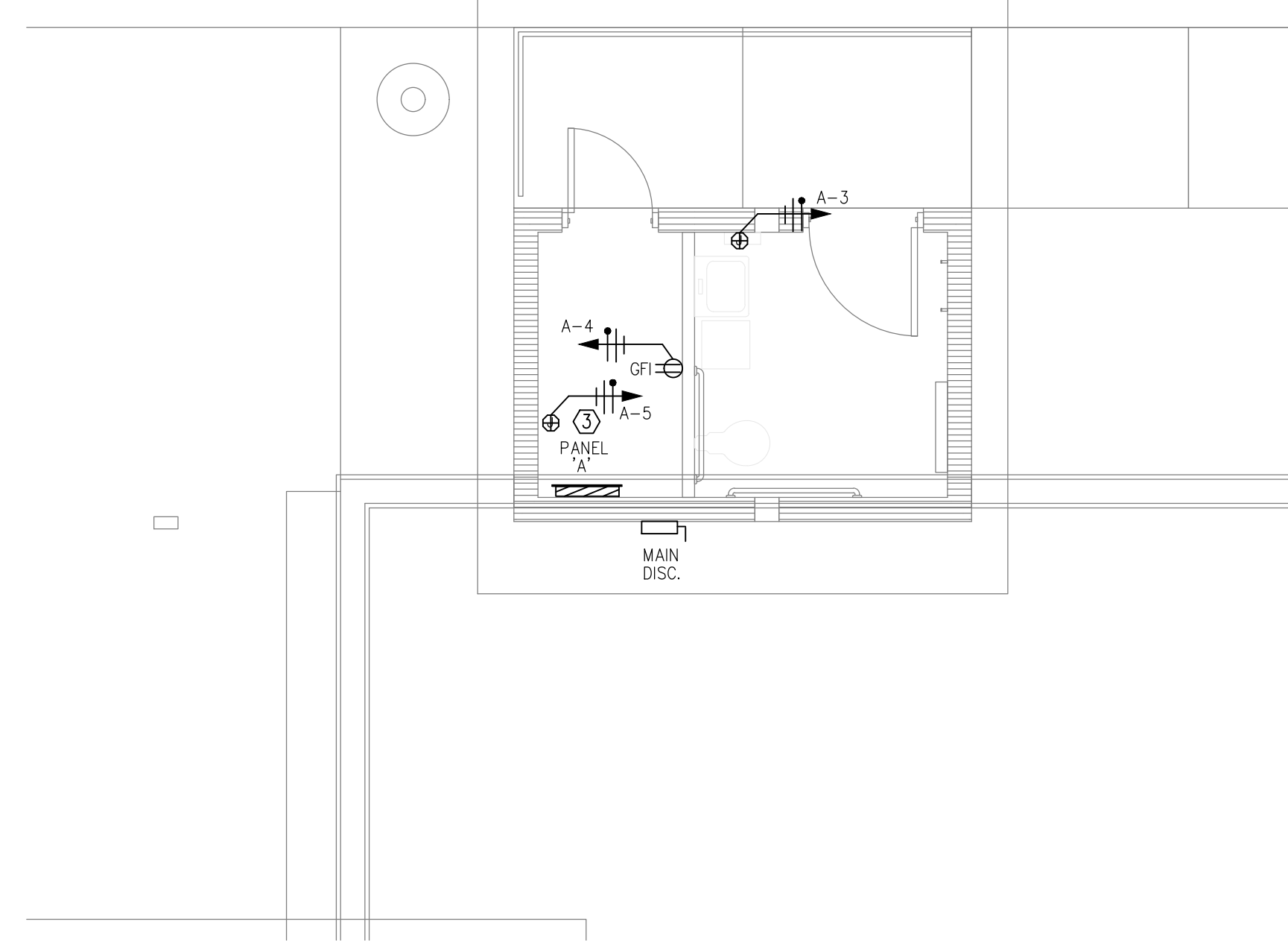
- EXISTING ELECTRIC METER
- EXISTING PANEL 'ASF': 200A, 240Y/120V, 1 PHASE, 3 WIRE. REFER TO PANEL SCHEDULE.
- PANEL 'A' 100A, 240/120V, 1 PHASE, 3 WIRE. REFER TO PANEL SCHEDULE.
- EXISTING CONDUIT.
- 1 1/2" CONDUIT WITH 3-#2 THWN CU. CONDUCTORS AND 1-#8 CU. GROUND.
- EXISTING GROUNDING SYSTEM.
- PROVIDE NEMA 3R, HINGED, WITH LOCKABLE COVER LARGE ENOUGH TO FIT TIME CLOCK, 4 POLE LIGHTING CONTACTOR, AND ASSOCIATED DEVICES.
- PHOTOCELL ON ROOF, FACING SOUTH.
- EXISTING MAIN DISCONNECT 'A': 200A, 240Y/120V, 1 PHASE, 3 WIRE, NEMA 3R.
- NEW DISCONNECT 'B': 100A, 240Y/120V, 1 PHASE, 3 WIRE, NEMA 3R.
- ELECTRICAL PANEL TO BE SQUARE D. REFER TO ARCHITECT FOR EXACT REQUIREMENTS.



LIGHTING PLAN 1
ALAMEDA ZOO 1/4" = 1'-0" E202

KEYED NOTES

- INSTALL OUTDOOR REMOTE EMERGENCY HEAD ABOVE DOOR, CONNECT AS SHOWN.
- THIS CIRCUIT TO BE WIRED THRU TIMER CONTACTOR. TIMER CONTACTOR TO BE CONTROLLED BY PHOTOCELL.
- PIPING HEATING, PROVIDE 4" SQ. J-BOX WITH PLASTER RING. COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT LOCATION.



POWER PLAN 2
ALAMEDA ZOO 1/4" = 1'-0" E202

LIGHTING FIXTURE SCHEDULE									
TYPE	MANUFACTURER/MODEL NO.	SUPPLY	LED			COLOR	MOUNTING	NOTES	
			DIM	WATTS	TEMP.				
A	FAIL-SAFE HVSL2-4-LD4-STD-40-UNV-O-EDC1	120V		32.7W LED	40K	WHT	WALL	[4]	
B	FAIL-SAFE HVSL2-4-LD4-STD-40-UNV-O-EDC1	120V		32.7WLED	40K	WHT	CEILING/WALL	[5]	
C	LIGHTWAY BUX-9-LED-4-CBA	120V		12WLED	40K	CBA	WALL	[3]	
EX	EVENLITE PRWLED-MV	120V		INCLUDED		WH	WALL	[2]	

NOTES: [1] PROVIDE WITH 90 MIN. MINIMUM POWER LIFE BATTERY
 [2] REMOTE MOUNTED EMERGENCY HEAD, CONNECT TO INTERIOR EXIT SIGN.
 [3] COORDINATE WITH ARCHITECT FOR EXACT MOUNTING HEIGHT
 [4] PROVIDE WITH A WALL BRACKET
 [5] PROVIDE PENDANT MOUNT SUSPENSION SET

GENERAL NOTES:
 [A] FIXTURES SELECTED BASED ON PERFORMANCE AND AESTHETICS.
 [B] ARCHITECT TO SELECT ALL FIXTURE FINISH/COLORS PRIOR TO ORDERING LIGHT FIXTURES.
 [C] SUBSTITUTIONS MUST BE PRE-APPROVED. PROVIDE SUBSTITUTION SUBMITTALS FOR REVIEW 10 BUSINESS DAYS PRIOR TO BID DATE.
 [D] CONTRACTOR MUST PROVIDE FULL PHOTOMETRIC STUDIES ON SUBSTITUTION FIXTURES.

PANEL OR LOAD CENTER - ASF															
LOAD TYPE	CKT. NO.	DESCRIPTION	FEED CODE	AMPS	POLE	LOAD KVA	A	C	LOAD KVA	POLE	AMPS	FEED CODE	DESCRIPTION	CKT. NO.	LOAD TYPE
LT	1	LIGHTS W/ EXFAN		20	1	0.8	1.6						220 RECEPTACLE	2	RE
RE	3	EXISTING LOAD		20	1	0.8		1.6	0.8	2	20		220 RECEPTACLE	4	RE
RE	5	WALL RECEPTACLE		20	1	0.8	1.6		0.8	1	20		RECEPTACLE IN WEST WALL	6	RE
RE	7	OFFICE W. WALL		20	1	0.8		1.6	0.8	1	20		LIGHTS IN OFFICE	8	LT
RE	9	EXISTING LOAD		20	1	0.8	1.6		0.8	1	20		AIR CONDITIONER	10	AC
RE	11	EXISTING LOAD		20	1	0.8		1.6	0.8	1	20		EXISTING LOAD	12	RE
OT	13	EXISTING LOAD		20	1	0.8	1.6		0.8	1	20		EXISTING LOAD	14	RE
OT	15	PANEL 'A'		30	2	1.7		1.698			1	20	SPARE	16	
OT	17	120/240V, 1PH		20	1	1.6					1	20	SPARE	18	
OT	19	SPARE		20	1			0			1	20	SPARE	20	
						TOTAL KVA	8	6.498							
						TOTAL AMPS	66.7	54.2							

PANEL OR LOADCENTER INFORMATION					
DESIGNATION	ASF				
MAIN SIZE	100A				
MAIN TYPE	M.L.O.				
VOLTS	120/240				
PHASE	1				
WIRE	3				
AIC RATING	12 KAIC				
NEMA TYPE	INTERIOR				
MOUNTING	RECESSED				
SERVED FROM	100A, 3 POLE C.B. IN PANEL				

LOAD TYPE	CONNECTED		DESIGN FACTOR	DESIGN LOAD	
	KVA	AMPS		KVA	AMPS
LIGHTS	1.6	6.7	1.25	2.00	8.3
RECEPTACLES	8.00	33.3	1.0	8.00	33.3
MOTOR	0.00	0.0	NEC	0.00	0.0
AC	0.80	3.3	1.25	1.00	4.2
KITCHEN	0.00	0.0	1.0	0.00	0.0
OTHER	4.10	17.1	NEC	4.10	17.1
TOTAL	14.50	60.4		15.10	62.9

COMcheck Software Version 4.1.5.3 Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2015 IECC
 Project Title: New Construction
 Project Type: Exterior Lighting Zone
 Construction Site: 1 (Developed area in national or state park (LZ1))

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Main entry	4 ft. of door	20	Yes	80
Main entry	4 ft. of door	20	Yes	80
Walkway >= 10 feet wide	22 R2	0.14	Yes	3
Illuminated area of facade wall or surface	12 R2	0	No	0
		Total Tradable Watts (a) =		163
		Total Allowed Watts (b) =		163
		Total Allowed Supplemental Watts (d) =		500

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

A Fixtures / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Allowed Watts (B X C)	E (C X D)
Main entry 4 ft. of door w/ (B): Tradable Wattage	1	2	12	24
C: Other:	1	2	12	24
Walkway >= 10 feet wide (22 R2): Tradable Wattage	1	3	12	36
C: Other:	1	3	12	36
		Total Tradable Proposed Watts =		84

Exterior Lighting PASSES: Design 67% better than code

COMcheck Software Version 4.1.5.1 Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2015 IECC
 Project Title: New Construction
 Construction Site: 1 (Developed area in national or state park (LZ1))

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
Common Space Types: Restrooms	245	0.98	240
		Total Allowed Watts =	240

A Fixtures / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Allowed Watts (B X C)	E (C X D)
Common Space Types: Restrooms	1	1	33	33
A: Other:	1	1	33	33
B: Other:	1	1	33	33
		Total Proposed Watts =		65

Interior Lighting PASSES: Design 73% better than code

PANEL OR LOAD CENTER - A															
LOAD TYPE	CKT. NO.	DESCRIPTION	FEED CODE	AMPS	POLE	LOAD KVA	A	C	LOAD KVA	POLE	AMPS	FEED CODE	DESCRIPTION	CKT. NO.	LOAD TYPE
LT	1	INTERIOR LIGHTS		20	1	0.1	0.198		0.1	1	20		EXTERIOR LIGHTS	2	LT
RE	3	HAND DRYER		20	1	0.8		1.6	0.8	1	20		CHASE OUTLET	4	RE
RE	5	PIPE HEATING		20	1	1.5	1.5				1	20	SPARE	6	
	7	SPARE		20	1			0			1	20	SPARE	8	
	9	SPARE		20	1		0				1	20	SPARE	10	
	11	SPARE		20	1		0				1	20	SPARE	12	
	13	SPARE		20	1		0				1	20	SPARE	14	
						TOTAL KVA	1.698	1.6							
						TOTAL AMPS	14.2	13.3							

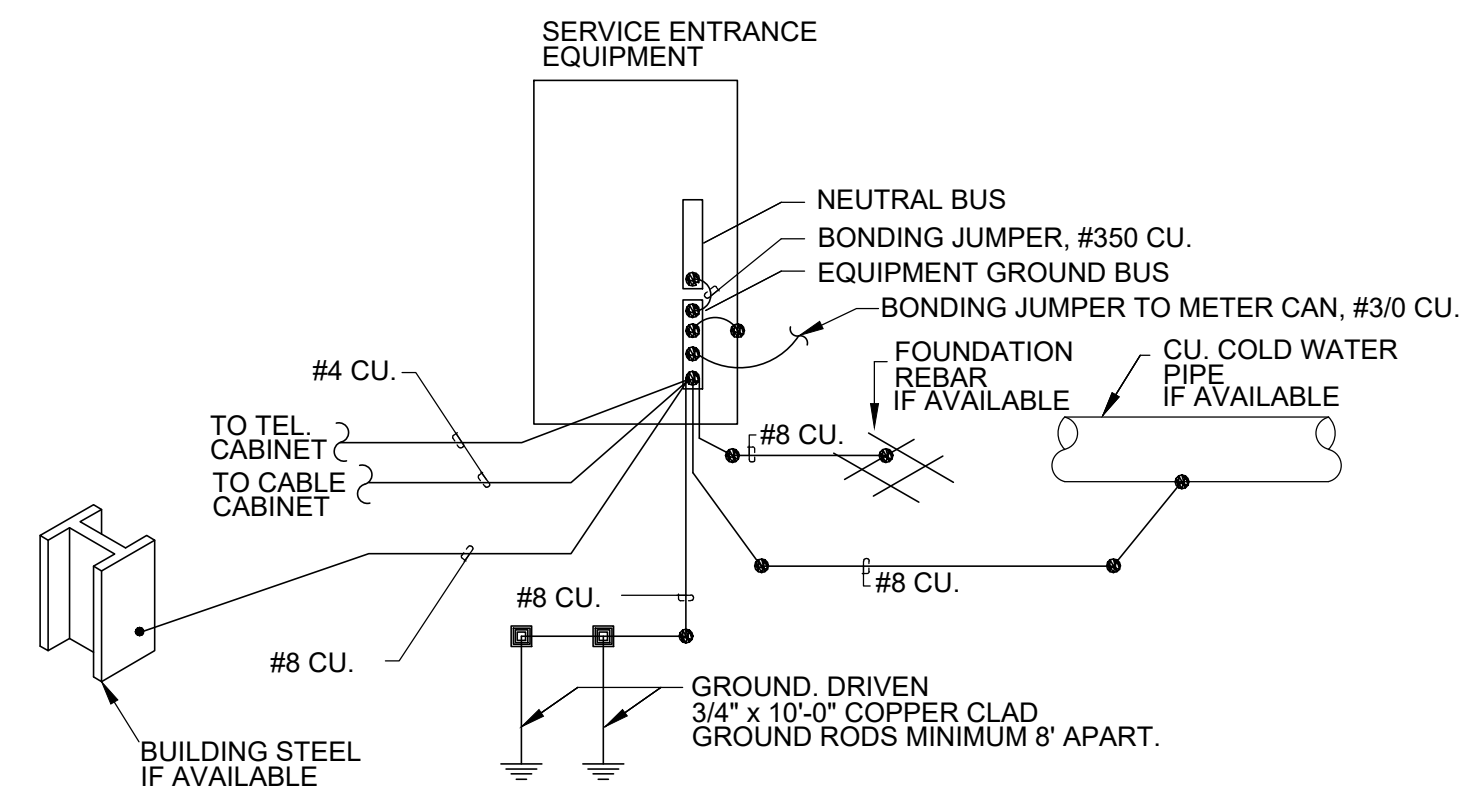
PANEL OR LOADCENTER INFORMATION					
DESIGNATION	A				
MAIN SIZE	100A				
MAIN TYPE	M.L.O.				
VOLTS	120/240				
PHASE	1				
WIRE	3				
AIC RATING	12 KAIC				
NEMA TYPE	INTERIOR				
MOUNTING	RECESSED				
SERVED FROM	60A MAIN C.B.				

LOAD TYPE	CONNECTED		DESIGN FACTOR	DESIGN LOAD	
	KVA	AMPS		KVA	AMPS
LIGHTS	0.2	0.8	1.25	0.25	1.0
RECEPTACLES	3.10	12.9	1.0	3.10	12.9
MOTOR	0.00	0.0	NEC	0.00	0.0
AC	0.00	0.0	1.25	0.00	0.0
KITCHEN	0.00	0.0	1.0	0.00	0.0
OTHER	0.00	0.0	NEC	0.00	0.0
TOTAL	3.30	13.7		3.35	13.9

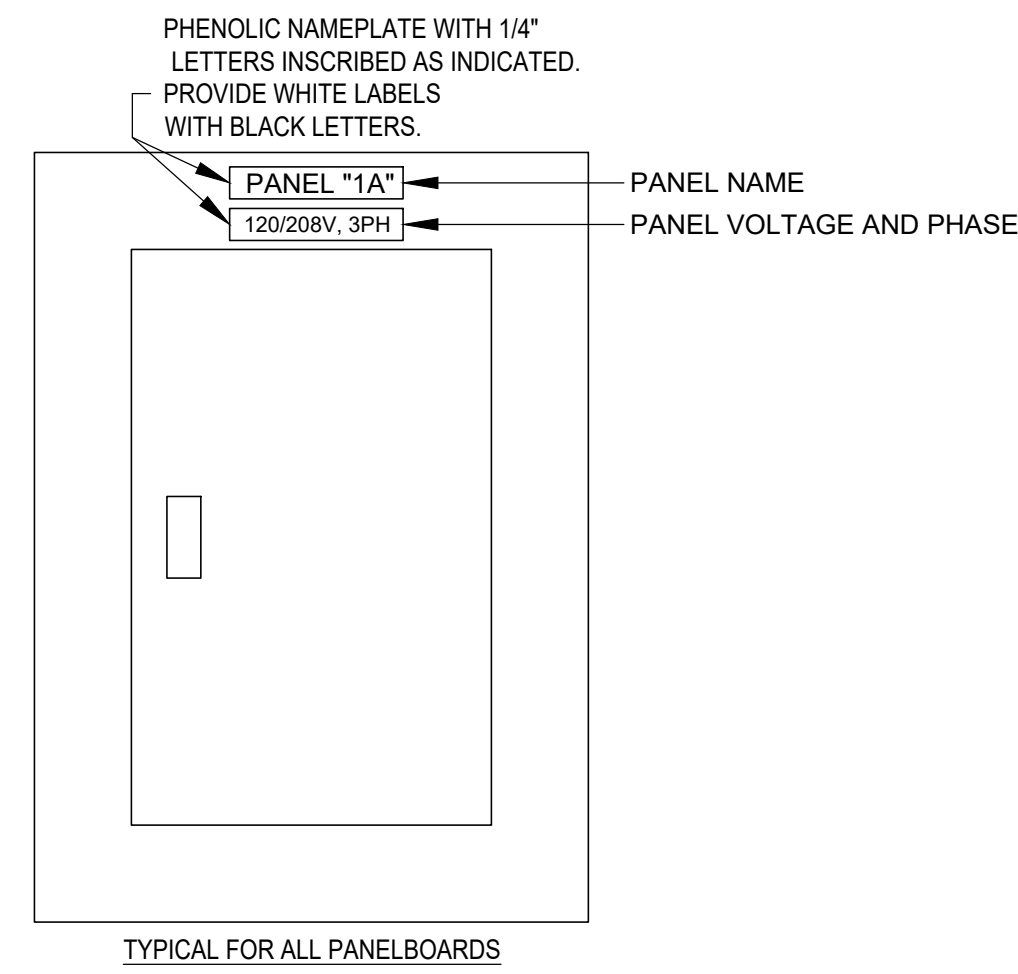


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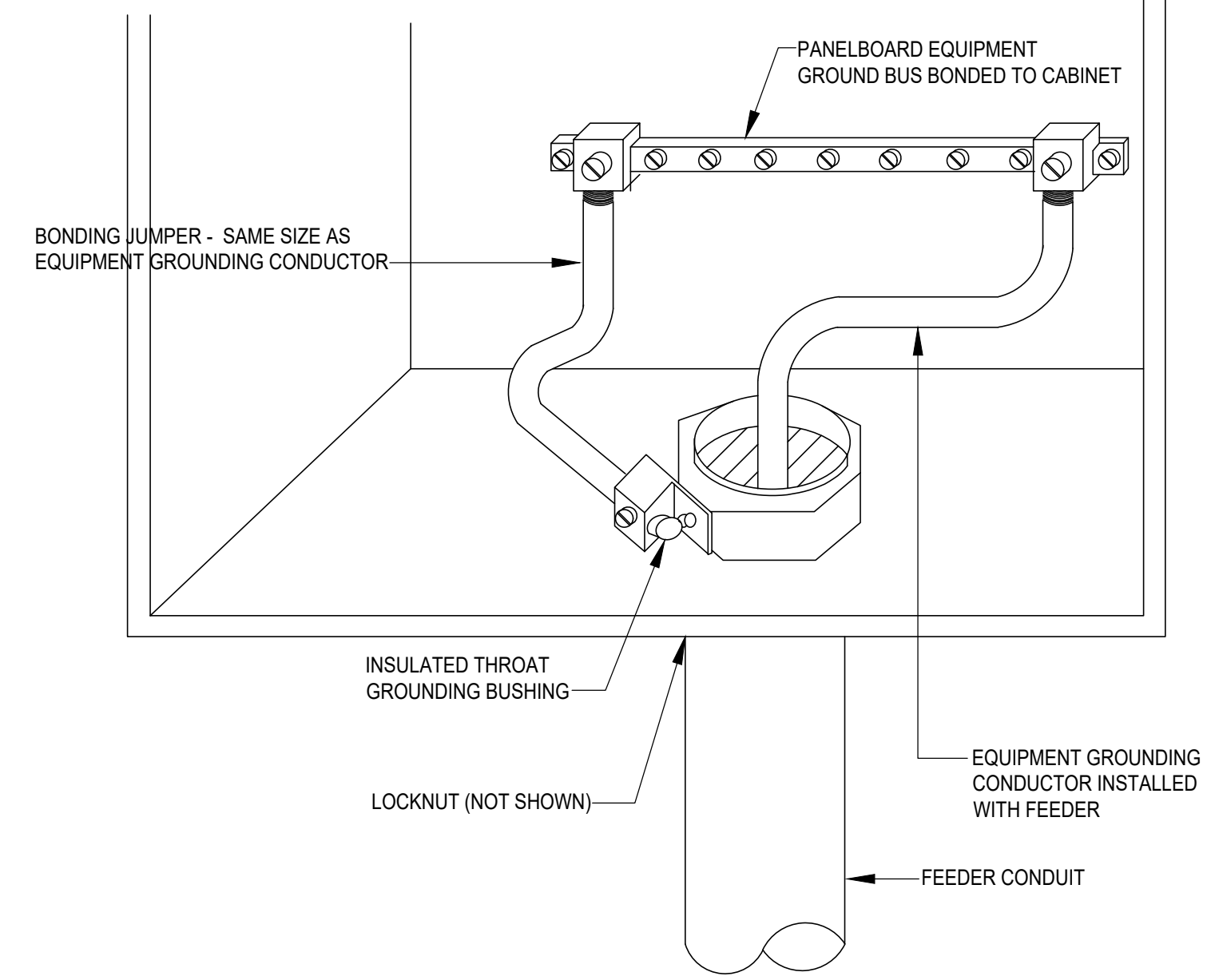
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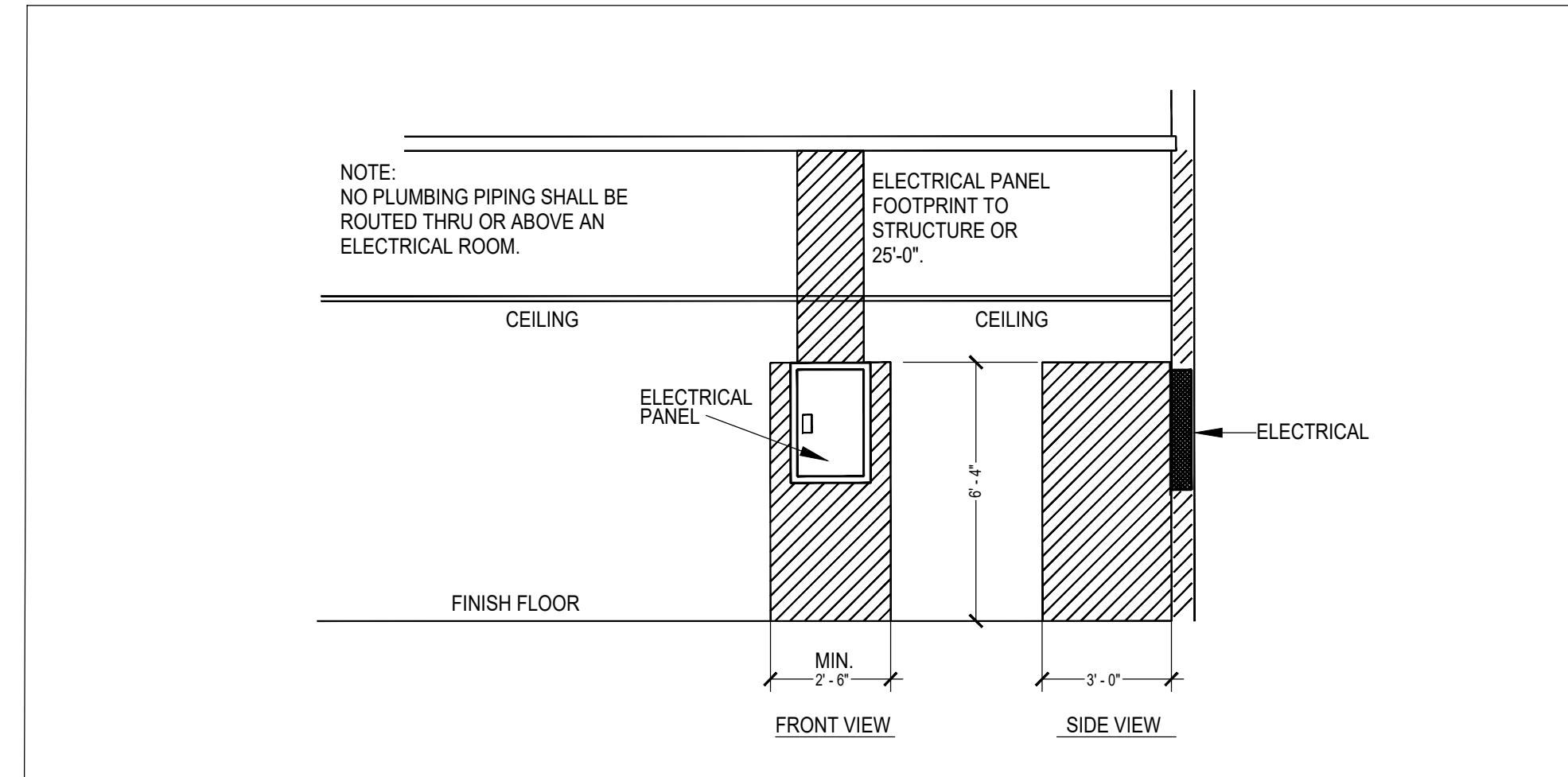
1
E300
GROUNDING SCHEMATIC
NTS



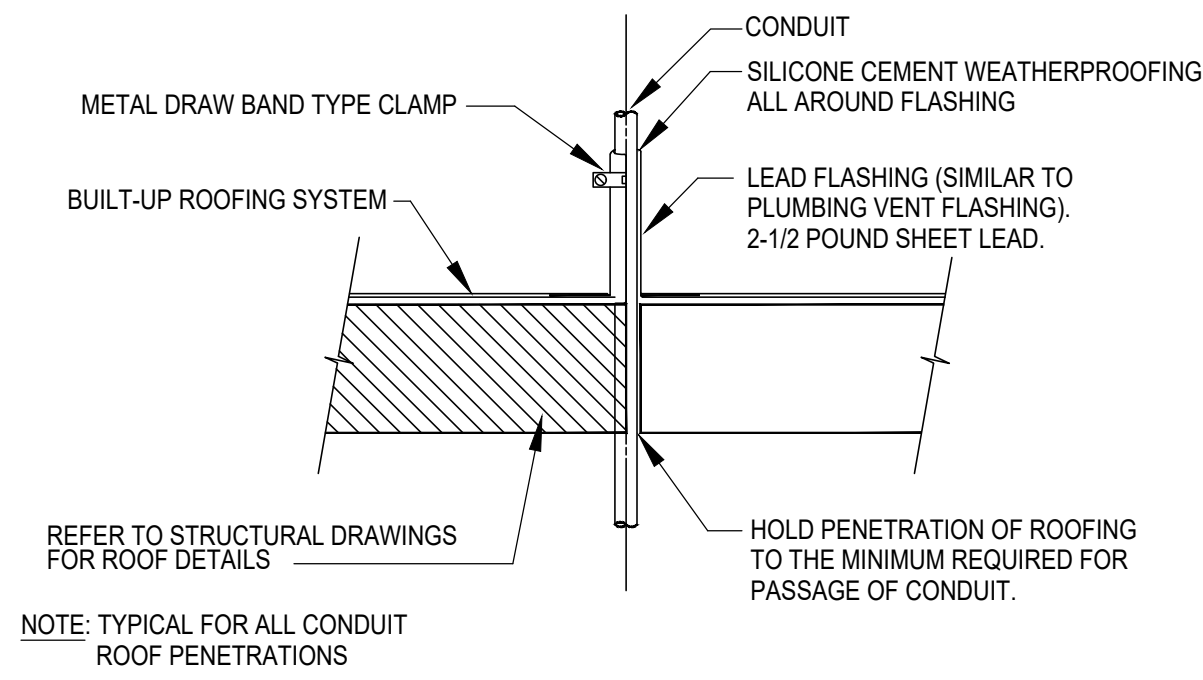
2
E300
PANELBOARD IDENTIFICATION SCHEMATIC
NTS



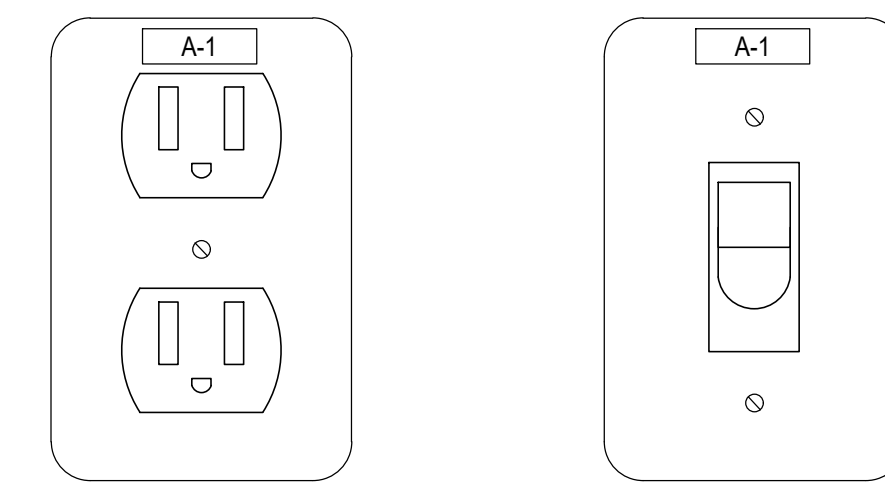
3
E300
PANELBOARD BONDING SCHEMATIC
NTS



4
E300
ELECTRICAL CLEARANCE DETAIL
NTS



5
E300
CONDUIT ROOF PENETRATION SCHEMATIC
NOTE: CONTRACTOR TO COORDINATE WITH OWNER FOR ROOFING PENETRATIONS IN ORDER TO MAINTAIN ROOF WARRANTY IN EFFECT.
NTS



6
E300
RECEPTACLE AND SWITCH LABEL TYPICAL FOR ALL
NOTE: PROVIDE WITH 1/8" BLACK LETTER WITH WHITE LABELS, INDICATING PANEL AND CIRCUIT FEEDING DEVICE.
NTS

Alamogordo
Park Restrooms

Balloon Fiesta Park
Lavelle Rd.
Alamogordo, New Mexico

Alameda Park Zoo
1021 N. White Sands Blvd.
Alamogordo, New Mexico

REVISION	DATE

Project no: 21.16
Date: April 2021
Sheet:

ELECTRICAL
DETAILS

E300



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