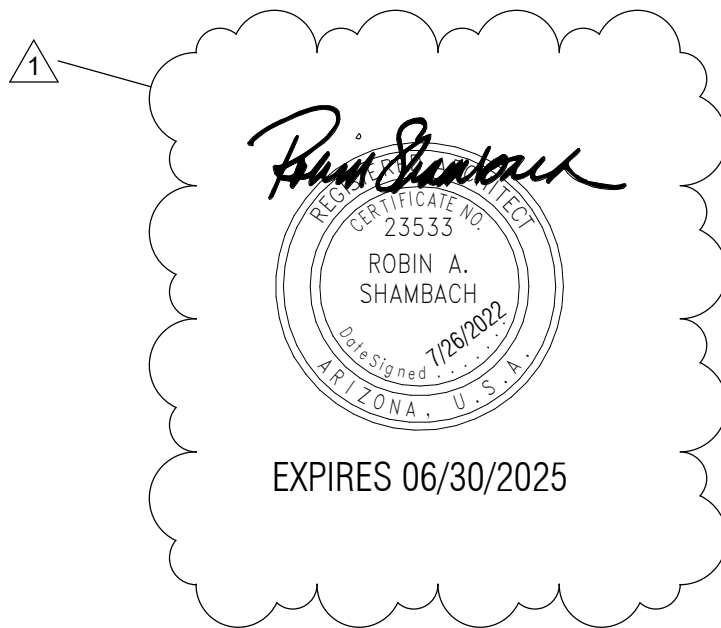


PARKER INDIAN HEALTH CENTER DUPLEX DESIGN

IHS Project No: PH21CR03Q3
Parker, Arizona

PARKER INDIAN HEALTH CENTER
DUPLEX DESIGN

Parker, Arizona
BWS Project No. 1818.900



Construction Documents July 26, 2022

Construction Documents
July 26, 2022

OWNER

INDIAN HEALTH SERVICE
FACILITIES DESIGN & CONSTRUCTION
Two Renaissance Square
40 N Central Ave
Phoenix, AZ 85004
Phone: (602) 364-5300

CONSULTANTS

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EEC
555 E River Road, Suite 301
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Phone: (520) 321-4625

STRUCTURAL
Turner Structural Eng.
2806 N Alvernon Way, Ste 400
Tucson, AZ 85712
Phone: (520) 323-3422

MECHANICAL
Zona Technical Engineering
6422 E Speedway Blvd, Suite 130
Tucson, AZ 85710
Phone: (520) 200-2612

ELECTRICAL
M3 Engineering
2051 W Sunset Rd
Tucson, AZ 85704
Phone: (520) 293-1488

REVIEWED FOR CODE COMPLIANCE

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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bobbet V. La Guardia

DATE: 02/24/2023

bws | ARCHITECTS

BURNS WALD-HOPKINS SHAMBACH ARCHITECTS

261 North Court Avenue
Tucson, Arizona 85701
520.795.2705 Fax 520.795.6171
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ABBREVIATIONS

A/C	AIR CONDITIONING	F	FAHRENHEIT	N	NORTH	(S)	SURFACE MOUNTED
AB	ANCHOR BOLT	F/	FROM	NA	NOT APPLICABLE	S	SEALED, SOUTH
ABC	AGGREGATE BASE COURSE	FA	FIRE ALARM	NIC	NOT IN CONTRACT, (OFOI)	SC	SOLID CORE
AC	ACOUSTICAL CEILING	FAB	FABRICATE	NO	NUMBER	SCHED	SCHEDULE
ADA	AMERICAN WITH DISABILITIES ACT	FD	FLOOR DRAIN	NOM	NOMINAL	SD	STORM DRAIN
		FDN	FOUNDATION	NRC	NOISE REDUCTION COEFFICIENTS	SDG	SIDING
ADJ	ADJACENT	FE	FIRE EXTINGUISHER			SECT	SECTION
AECS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	FEC	FIRE EXTINGUISHER CABINET	NTS	NOT TO SCALE	SF	SQUARE FEET
		FF	FINISH FLOOR			SHEET	SHEET
		FFE	FINISH FLOOR ELEVATION	O/	OVER	SHWR	SHOWER
AFF	ABOVE FINISH FLOOR	FIN	FINISH(ED)	OA	OVERALL	SIM	SIMILAR
AGG	AGGREGATE	FLA	FLASHING	OC	ON CENTER(S)	SIP	STRUCTURAL INSULATED
ALT	ALTERNATE	FLEX	FLEXIBLE	OD	OUTSIDE DIAMETER		PANEL
ALUM	ALUMINUM	FLUOR	FLUORESCENT	OFCI	OWNER FURNISHED,	SM	SHEET METAL
ANCH	ANCHOR, ANCHORAGE	FO	FACE OF		CONTRACTOR INSTALLED	SP	SOUNDPROOF
ANOD	ANODIZED	FP	FIREPROOF	OFF	OFFICE	SPECS	SPECIFICATIONS
		FR	FIRE RETARDANT	OFOI	OWNER FURNISHED,	SPKR	SPEAKER
		FRP	FIBER REINFORCED PLASTIC		OWNER INSTALLED	SPL	SPECIAL
BD	BOARD	FS	FLOOR SINK	OH	OVERHEAD, OPPOSITE HAND	SQ	SQUARE
BEDRM	BEDROOM	FT	FOOT, FEET	OPG	OPENING	SS	SERVICE SINK,
BFF	BELOW FINISH FLOOR	FTG	FOOTING	OPP	OPPOSITE		STAINLESS STEEL
BLDG	BUILDING	FUR	FURRED(ING)	ORD	OVERFLOW ROOF DRAIN	ST	STREET
BLK(G)	BLOCK(ING)	FUT	FUTURE	OSB	ORIENTED STRAND BOARD	STC	SOUND TRANSMISSION
BM	BENCH MARK	FV	FIELD VERIFY				COEFFICIENT
BO	BOTTOM OF			P	PAINT(ED)	STD	STANDARD
BOT	BOTTOM			PAR	PARALLEL	STL	STEEL
BRG	BEARING	GA	GAGE, (GAUGE)	PART	PARTITION	STOR	STORAGE
BRK	BRICK	GALV	GALVANIZED	PART	PARTITION	STOR	STORAGE
BSMT	BASEMENT	GC	GENERAL CONTRACT(OR)	PART BD	PARTICLE BOARD	STRUC	STRUCTURAL
BUR	BUILT UP ROOFING	GD	GRADE	PC	PIECE	SUSP	SUSPENDED
		GL	GLASS, GLAZING	PCC	PRECAST CONCRETE	SV	SEAMLESS VINYL
C	CHANNEL	GWB	GYPSPUM WALLBOARD	PCF	POUNDS PER CUBIC FOOT	SW	SWITCH
C/C	CENTER TO CENTER	GYP	GYPSPUM	PERF	PERFORATE(D)	SWR	SEWER
CAB	CABINET			PERIM	PERIMETER	SYM	SYMMETRY(ICAL)
CB	CHALKBOARD, CATCH BASIN	HB	HOSE BIBB	PERP	PERPENDICULAR		
CEM	CEMENT	HC	HOLLOW CORE	PF	PREFABRICATES		
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	HDBD	HARDBOARD	PJ	PANEL JOINT		
		HDWD	HARDWOOD	PL	PLASTER, PLATE,	T	THICKNESS, TEE
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED	HDWR	HARDWARE		PROPERTY LINE	T&G	TONGUE & GROOVE
		HIW	HIGH IMPACT WOOD	PLAM	PLASTIC LAMINATE	TB	TACKBOARD
CG	CORNER GUARD		FIBER BOARD	PLBG	PLUMBING	TBD	TO BE DETERMINED
CI	CAST IRON	HM	HOLLOW METAL	PLF	POUNDS PER LINEAR FOOT	TB	TRENCH DRAIN
CIP	CAST IN PLACE	HORIZ	HORIZONTAL	PNL	PANEL	TEL	TELEPHONE
CJ	CONTROL JOINT	HP	HIGH POINT	PO	POWER OPERATED	TEMP	TEMPERATURE, TEMPORARY
CL	CENTERLINE	HR	HOOR	PR	PAIR	TERR	TERRAZZO
CLG	CEILING	HT	HEIGHT	PREFAB	PREFABRICATED	THK	THICK(NESS)
CLR	CLEAR(ANCE)	HVAC	HEATING VENTILATING	PSF	POUNDS PER SQUARE FOOT	TO	TOP OF
CLMP	CORRUGATED METAL PIPE		AIR CONDITIONING	PSI	POUNDS PER SQUARE INCH	TOB	TOP OF BEAM
CMTS	COMMENTS	HW	HOT WATER	PT	POINT	TOC	TOP OF CONCRETE
CMU	CONCRETE MASONRY UNITS			PTD	PAPER TOWEL DISPENSER	TOIL	TOILET
CMWP	COMPOSITE METAL WALL PANEL	ICF	INSULATED CONCRETE FORM	PTR	PAPER TOWEL RECEPTOR	TOM	TOP OF MASONRY
		ICMWP	INSULATED COMPOSITE	PVC	POLYVINYL CHLORIDE	TOP	TOP OF PARAPET
CNPY	CANOPY		METAL WALL PANEL	PVMT	PAVEMENT	TOS	TOP OF STEEL
CO	CLEAN OUT	ID	INSIDE DIAMETER	PWD	PLYWOOD	TOW	TOP OF WALL
COL	COLUMN	IE	INVERT ELEVATION			TOIL	TOILET PAPER DISPENSER
COMB	COMBINATION	IN	INCH(ES)	QT	QUARRY TILE	TV	TELEVISION
CONC	CONCRETE	INCL	INCLUDING	QTR	QUARTER	TYP	TYPICAL
CONN	CONNECTION	INS	INSULATION	QTY	QUANTITY		
CONST	CONSTRUCTION	INT	INTERIOR			U	URINAL
CONT	CONTINUE (OUS)			(R)	RECESSED	UG	UNDERGROUND
CORR	CORRIDOR, CORRUGATED	JC	JANITORS CLOSET	R	RADIUS, RISER ROUND	UL	UNDERWRITERS LABORATORY
CPT	CARPET	JST	JOIST	RA	RETURN AIR	UNF	UNFINISHED
CSK	COUNTERSINK	JT	JOINT	RB	RESILIENT BASE	UNO	UNLESS NOTED OTHERWISE
CT	CERAMIC TILE			RCP	REINFORCED CONCRETE PIPE,		
CU	CUBIC	KD	KNOCKED DOWN		REFLECTED CEILING PLAN	VB	VAPOR BARRIER
CU FT	CUBIC FOOT	KIT	KITCHEN	RD	ROOF DRAIN	VCT	VINYL COMPOSITION TILE
CW	COLD WATER	KO	KNOCK OUT	REC	RECESSED	VERT	VERTICAL
		KP	KICK PLATE	REF	REFERENCE	VNR	VENEER
				RELO	RELOCATION	VPL	VENEER PLATER
D	DEPTH			REPL	REPLACE	VWC	VINYL WALL COVERING
DEMO	DEMOLISH	L	LENGTH, LONG	REQD	REQUIRED		
DF	DRINKING FOUNTAIN	LAB	LABORATORY	RES	RESILIENT	W	WIDTH, WIDE, WEST
DIA	DIAMETER	LAM	LAMINATE	REV	REVISION(S), REVISED	W/	WITH
DIAG	DIAGONAL	LAV	LAVATORY	RF	RIGID FIBERGLASS	W/O	WITHOUT
DIM	DIMENSION	LF	LINEAR FEET	RFG	ROOFING	W/W	WALL TO WALL
DISP	DISPENSER	LL	LIVE LOAD	RH	RIGHT HAND	WC	WATER CLOSET
DP	DAMPMPROOFING	LLH	LONG LEG HORIZONTAL	RM	ROOM	WD	WOOD
DR	DOOR	LLV	LONG LEG VERTICAL	RO	ROUGH OPENING	WDW	WINDOW
DS	DOWNSPOUT	LP	LOW POINT	ROW	RIGHT OF WAY	WH	WALL HUNG, WATER HEATER
DTL	DETAIL	LT	LIGHT	RWL	RAINWATER LEADER	WI	WROUGHT IRON
DWC	DRYWALL CHANNELS (HAT)	LTWT	LIGHTWEIGHT			WM	WIRE MESH
DWG	DRAWING	LVR	LOUVER			WP	WATERPROOFING
						WR	WATER REPELLENT
E	EAST	MAS	MASONRY			WS	WEATHERSTRIP
EA	EACH	MATL	MATERIAL			WSCT	WAINSCOT
EF	EACH FACE	MAX	MAXIMUM			WWT	WEIGHT
EFS	EXTERIOR FINISH SYSTEM	MECH	MECHANICAL			WWF	WELDED WIRE FABRIC
EIFS	EXT. INSULATION FINISH SYSTEM	MED	MEDIUM				
		MEZZ	MEZZANINE			YD	YARD
EJ	EXPANSION JOINT	MFR	MANUFACTURER				
ELEC	ELECTRIC(AL)	MH	MANHOLE				
ELEV	ELEVATION, ELEVATOR	MIN	MINIMUM				
EMER	EMERGENCY	MISC	MISCELLANEOUS				
EP	EPOXY PAINT	MO	MASONRY OPENING				
EQ	EQUAL	MOD	MODULAR				
EQUIP	EQUIPMENT	MOV	MOVABLE				
ES	EXPOSED STRUCTURE	MTD	MOUNTED				
EST	ESTIMATE	MTL	METAL				
EW	EACH WAY	MWP	METAL WALL PANEL (SYSTEM)				
EWC	ELECTRIC WATER COOLER						
EWWM	ELECTRICALLY WELDED WIRE MESH						
EXC	EXCAVAT(E) (ION)						
EXH	EXHAUST						
EXIST	EXISTING						
EXP	EXPANSION						
EXT	EXTERIOR						

REVIEWED FOR CODE COMPLIANCE


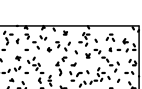
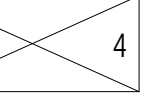
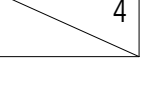
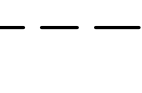


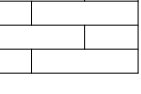
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BUREAU VERITAS NORTH AMERICA, INC.

Signature: Bobbet V. La Guardia

DATE: 02/24/2023

SECTION

	INSULATION BLANKET, BATTS
	RIGID INSULATION
	PLASTER, SAND, CEMENT, OR GROUT
	ROUGH WOOD, CONTINUOUS
	ROUGH WOOD, NONCONTINUOUS
	ROOFING OR FLASHING
	MEMBRANE
	GYPSUM WALL BOARD

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4

1. FINAL FIRE SPRINKLER DESIGN TO BE PROVIDED BY THE CONTRACTOR AS A DEFERRED SUBMITTAL PER FIRE PROTECTION DRAWINGS AND SPECIFICATIONS

The diagram shows a fire partition with a fire-resistance rating of 2 hours. It includes a fire extinguisher icon, a fire alarm pull station icon, and a fire alarm control unit icon. The partition is labeled with 'EXIT' and 'EMERGENCY EGRESS'. The fire partition is shown with a fire-resistance rating of 2 hours, indicated by the text 'FIRE PARTITION WITH 1/2 HOUR FIRE-RESISTANCE RATING PER IBC 708.3, EXCEPTION 2.'.

INTERNATIONAL BUILDING CODE	2018 EDITION
INTERNATIONAL PLUMBING CODE	2018 EDITION
INTERNATIONAL MECHANICAL CODE	2018 EDITION
INTERNATIONAL FIRE CODE	2018 EDITION
NATIONAL ELECTRIC CODE	2017 NFPA 70
SPRINKLER CODE	2022 NFPA 13R
INTERNATIONAL ENERGY CONSERVATION CODE	2018 EDITION
ANSI A117.1 ACCESSIBILITY CODE	2017 EDITION
INTERNATIONAL FUEL GAS CODE	2018 EDITION

* AND ALL OTHER CODES AND ORDINANCES AS ADOPTED BY THE GOVERNING AGENCIES HAVING JURISDICTION

1. ZONING (ZONING ORDINANCE): UNKNOWN, VERIFY "NONE"

2. DIMENSIONAL STANDARDS

A. SETBACKS:

B. HEIGHT LIMIT: 11'-10"

C. MIN. LOT SIZE: FRONT YARD: 29'-0"

D. MAX. LOT COVERAGE: REAR: 43'-2"

N/A

N/A

N/A

SOURCE: 2018 INTERNATIONAL BUILDING CODE

3. OCCUPANCY GROUP (IBC SECTION 302): R-2 "APARTMENT HOUSES"

4. TYPE OF CONSTRUCTION (IBC SECTION 601): U "CARPORT"

5. ALLOWABLE HEIGHT (TABLE 504): TYPE VB

ALLOWABLE BUILDING AREA (TABLE 506): 40' FT

AUTOMATIC SPRINKLER INCREASE: 2 STORIES (21,000 SF)

NOT USED- SPRINKLER REQUIRED

6. ACTUAL AREA

a. RESIDENCE 2,750 SF EACH BUILDING / 5,500 SF TOTAL

b. CARPORT 465 SF EACH / 1,860 SF TOTAL

7. FIRE RESISTANCE RATINGS (IBC TABLE 601/602):

A. EXTERIOR BEARING WALLS: 0 HOUR*

B. EXTERIOR NON-BEARING WALLS: ACTUAL 11'-10"

C. INTERIOR BEARING WALLS: 0 HOUR*

D. INTERIOR NON-BEARING WALLS: ACTUAL 11'-10"

E. STRUCTURAL FRAME: 0 HOUR

F. FLOORS: 0 HOUR

G. ROOFS: 0 HOUR

H. EXTERIOR DOORS & WINDOWS: UNPROTECTED (ALL SIDES) =

(TABLE 705.8) 10' > 15' 45%

8. AUTOMATIC SPRINKLER SYSTEM REQUIRED PER SECTION 903.2.8 NFPA 13R

9. SEPARATION WALLS

A. SEPARATION OF OCCUPANCIES: NOT REQUIRED

B. DWELLING UNIT SEPARATION: 1/2 HOUR (708.3 EX 2)

C. SHAFT ENCLOSURES: NOT REQUIRED

D. VERTICAL EXIT ENCLOSURES: NOT REQUIRED

10. CORRIDORS

A. RATING: N/A

B. WIDTH: N/A

C. DEAD END CORRIDOR: N/A

11. EXITS AND OCCUPANCY LOADS FOR THIS PROJECT (IBC TABLE 1004.1.2):

USE:	AREA (SF):	OCCUPANT LOAD FACTORS:	# OF PEOPLE:
RESIDENTIAL	2,750 SF	1 PERSON/ 200 GSF	14

A. WIDTH OF STAIRS (1005.1): N/A

B. WIDTH OF EXITS (1005.1): OCCUPANT LOAD SERVED x .15 INCH

C. SIZE OF DOORS (1010): MIN. 32" CLEAR

D. COMMON PATH OF EGRESS TRAVEL (1006): 125'

E. REQD EXITS FROM SPACES (TABLE 1015.1): R-2 OCCUPANCY, >20 OCCUPANTS = 1 EXITS

F. EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2): 250'

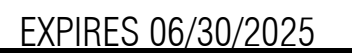
G. REQUIRED EXITS PER STORY: 11 OCC. < 50 = 1 EXIT (TABLE 1019.1)*

* 1 EXIT PER STORY PER TABLE 1019.2 IF EACH STORY SERVES LESS THAN 50 OCCUPANTS AND A HAS A MAXIMUM TRAVEL DISTANCE OF LESS THAN 75 FT (TABLE 1019.2)

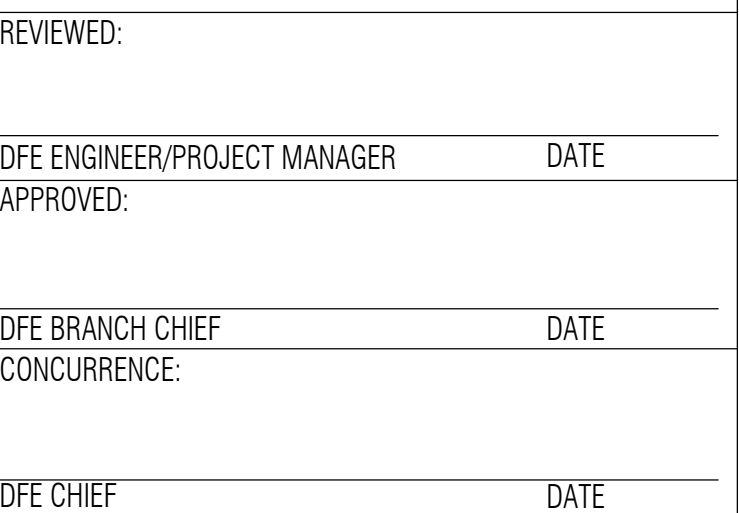
Classification: R-2	Water Closets	Lavatories	Tub/Shower	Kitchen Sink	Washer Connection
Factor	1 per Dwelling Unit	1 per Dwelling Unit	1 per Dwelling Unit	1 per Dwelling Unit	1 per 20 Dwelling Units
Number of Dwelling Units	4	4	4	4	4
Required Number of Fixtures	4	4	4	4	1
Provided Number of Fixtures	8	8	8	4	4

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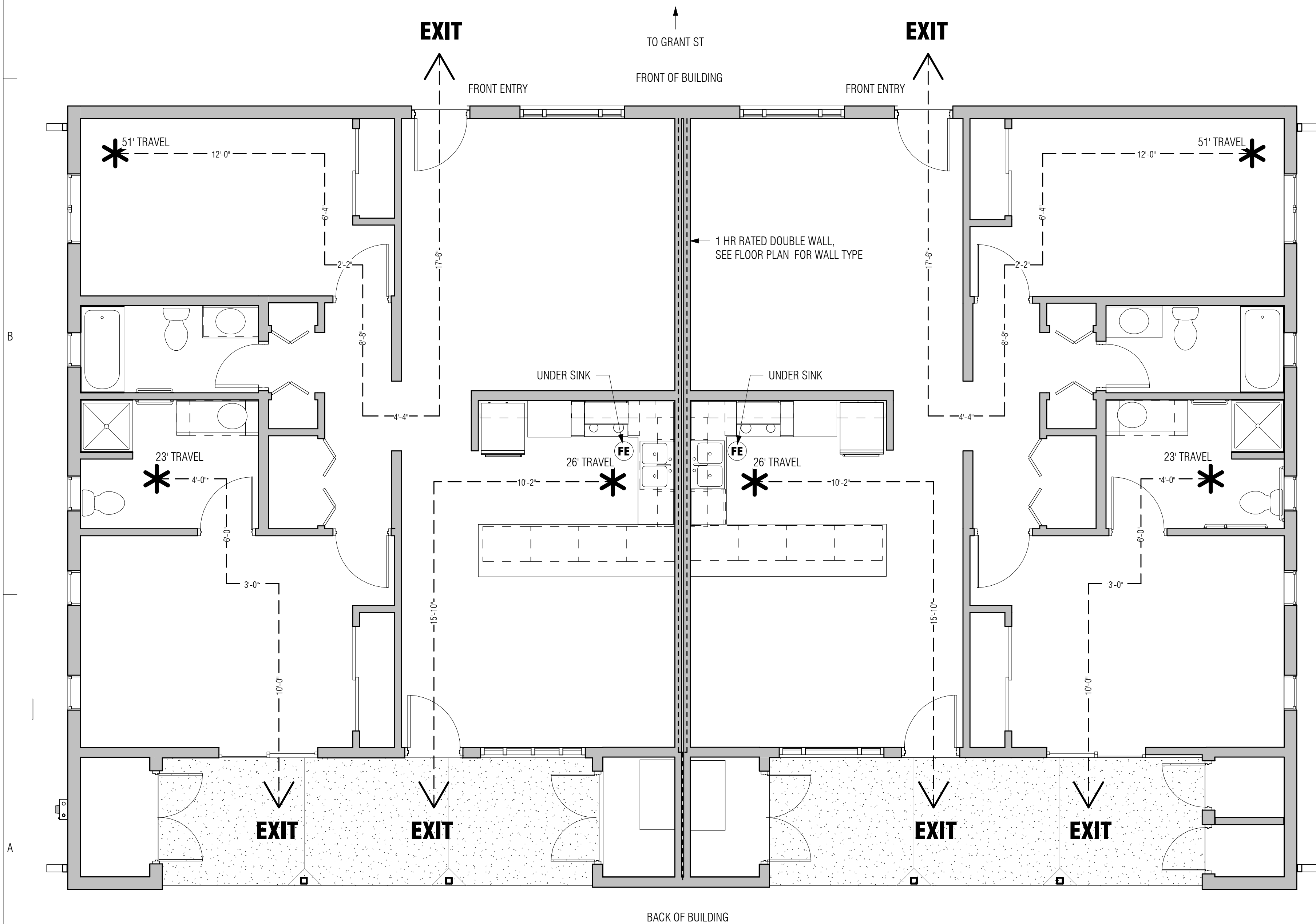
Parker, AZ
IHS PROJECT NO.PH21CR03Q3



1	01/20/23	PERMIT REVISIONS
REV	DATE	DESCRIPTION
ISSUE: July 26, 2022 - Construction Documents		
PROJECT NO: 1818.900		
CAD DWG FILE:		
DRAWN BY: CEM		
CHECKED BY:		

G3.0

Sheet 4 of 48



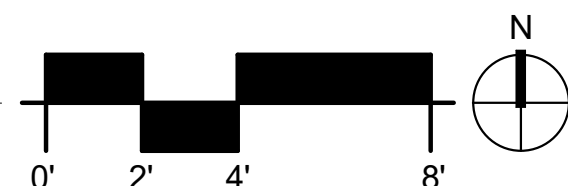
NOTE:
ONLY SHOWING (1) BUILDING, BOTH DUPLEX FLOOR PLANS ARE IDENTICAL

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GENERAL NOTES

1. CUT/FILL SLOPE TREATMENT:
A. SLOPES 3:1 AND FLATTER SHALL BE REVEGETATED.
2. SEE DEMOLITION PLAN FOR EXISTING ITEMS TO BE REMOVED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE, MAINTENANCE, REPAIR OR REPLACEMENT OF EXISTING IMPROVEMENTS IN THE WORK AREA WHICH HAVE BEEN REMOVED OR DAMAGED DURING THE COURSE OF CONSTRUCTION. ALL REPAIR REPLACEMENT, OR CLEANUP SHALL BE DONE TO THE SATISFACTION OF THE OWNER.
4. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
5. THE CONTRACTOR SHALL OBTAIN PERMITS INCLUDING THOSE FOR GRADING AND AIR POLLUTION, REQUIRED BY GOVERNMENTAL AGENCIES, NO WORK AS DELINEATED ON THESE PLANS, SHALL BE STARTED UNTIL THE CONTRACTOR HAS OBTAINED THE NECESSARY PERMITS.
6. THE CONTRACTOR SHALL LOCATE ALL STRUCTURES, UNDERGROUND PIPELINES, ELECTRICAL AND TELEPHONE CONDUITS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS PRIOR TO CONSTRUCTION, AND SHALL OBSERVE ALL POSSIBLE PRECAUTIONS TO AVOID ANY DAMAGE TO THESE FACILITIES.
7. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES, INCLUDING EXCAVATION, BORROW EMBANKMENT, SHRINK OR SWELL, GROUND COMPACTION, HAUL, AND ANY OTHER ITEMS AFFECTING THE BID TO COMPLETE THE GRADING TO THE ELEVATIONS SHOWN ON THESE PLANS AND TO BASE THE BID SOLELY UPON HIS OWN CALCULATED QUANTITIES. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION OF ANY MAJOR DISCREPANCIES BETWEEN HIS ESTIMATED QUANTITIES AND THOSE SHOWN ON THE PLANS.
8. ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THESE PLANS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT TO CONSTRUCT/INSTALL THE IMPROVEMENTS SHOWN ON THESE PLANS UNLESS SPECIFICALLY NOTED OTHERWISE.
10. THE CONTRACTOR SHALL CALL BLUE STAKE (1-800-782-5348) TO VERIFY LOCATION OF ALL UTILITIES AT LEAST 2 (TWO) WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIVE REGULATIONS.
12. A COPY OF APPROVED PLANS SHALL BE KEPT IN AN EASILY ACCESSIBLE LOCATION ON THE SITE AT ALL TIMES DURING CONSTRUCTION.
13. IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION AND ARE BEYOND THE SCOPE OF THE DESIGN, THE ENGINEER SHALL SUBMIT THE NECESSARY REVISED OR SUPPLEMENTAL IMPROVEMENT PLANS FOR REVIEW AND APPROVAL BY DEVELOPMENT SERVICES.
14. UPON COMMENCEMENT OF WORK, TRAFFIC CONTROL DEVICES SHALL BE POSTED AND MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE WORK IS COMPLETED. ALL WARNING SIGNS, BARRICADES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ADOPTED BY THE STATE OF ARIZONA PURSUANT TO A.R.S. 28-650.
15. STREETS & PARKING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10 FEET OF PROPOSED FINISH GRADE ELEVATIONS AS SHOWN ON THIS PLAN.
16. THE AREA OF DISTURBANCE (GRADING AND UTILITY CONSTRUCTION) FOR THIS PROJECT IS 9,500 SQUARE FEET, OR 0.2 ACRES.
17. CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS IN GEOTECHNICAL REPORT 4122JD014 PREPARED BY WESTERN TECHNOLOGIES INC. SIGNED 2022-06-13. PER THIS REPORT, UNDOCUMENTED FILES EXIST ON THE SITE.

PAVING AND GRADING NOTES

1. ALL DESIGN STANDARDS, MATERIALS AND WORKMANSHP FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND DETAILS AS ADOPTED BY: MARICOPA ASSOCIATION OF GOVERNMENTS UNIFORM STANDARDS SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION (MAG), LATEST EDITION.
2. ALL CONCRETE SHALL BE CLASS S, 3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE SPECIFIED PER MAG STANDARD SPECIFICATIONS.
3. THE CONTRACTOR SHALL FURNISH, HAUL, AND APPLY ALL WATER REQUIRED FOR COMPACTION AND FOR THE CONTROL OF DUST FROM CONSTRUCTION ACTIVITY.
4. A SOILS ENGINEER SHALL OBSERVE, INSPECT AND TEST ALL EARTHWORK AND PAVING OPERATIONS, INCLUDING BUT NOT LIMITED TO: CLEARING, GRUBBING, SUBGRADE PREPARATION, STRUCTURAL AND TRENCH EXCAVATION AND BACK FILL, TOGETHER WITH PLACEMENT AND COMPACTION OF FILL, PARKING ARE SURFACING, PAVING AND CONCRETE WORK.
5. THE CONTRACTOR SHALL ADJUST BOTH EXISTING AND NEW WATER VALVES, BOX COVERS, WATER METER BOXES, SANITARY SEWER MANHOLES AND CLEANOUT RING AND COVERS, TELEPHONE AND ELECTRIC MANHOLE RINGS AND COVERS TO FINISHED GRADE.
6. EXCAVATION AND BACKFILL FOR STRUCTURES SHALL CONFORM TO MAG STANDARD SPECIFICATIONS.
7. AGGREGATE BASE COURSE SHALL CONFORM TO MAG STANDARD SPECIFICATIONS.
8. ASPHALTIC CONCRETE SHALL CONFORM TO MAG STANDARD SPECIFICATIONS.

EXISTING UTILITY NOTE

EXISTING UTILITY LOCATIONS, AS SHOWN ON THE PLANS, WERE COMPILED FROM UTILITY COMPANY BASE MAPS, RECORD PLANS AND ABOVE GROUND FEATURES. HOWEVER, UTILITY LOCATIONS ARE NOT TO BE CONSIDERED EXACT OR COMPLETE. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL WITH THE APPROPRIATE ORGANIZATION AND, IF NECESSARY, POTHOLE ANY AND ALL UTILITY LOCATIONS IN QUESTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES "IN-PLACE" UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DOCUMENTS.

GENERAL NOTES

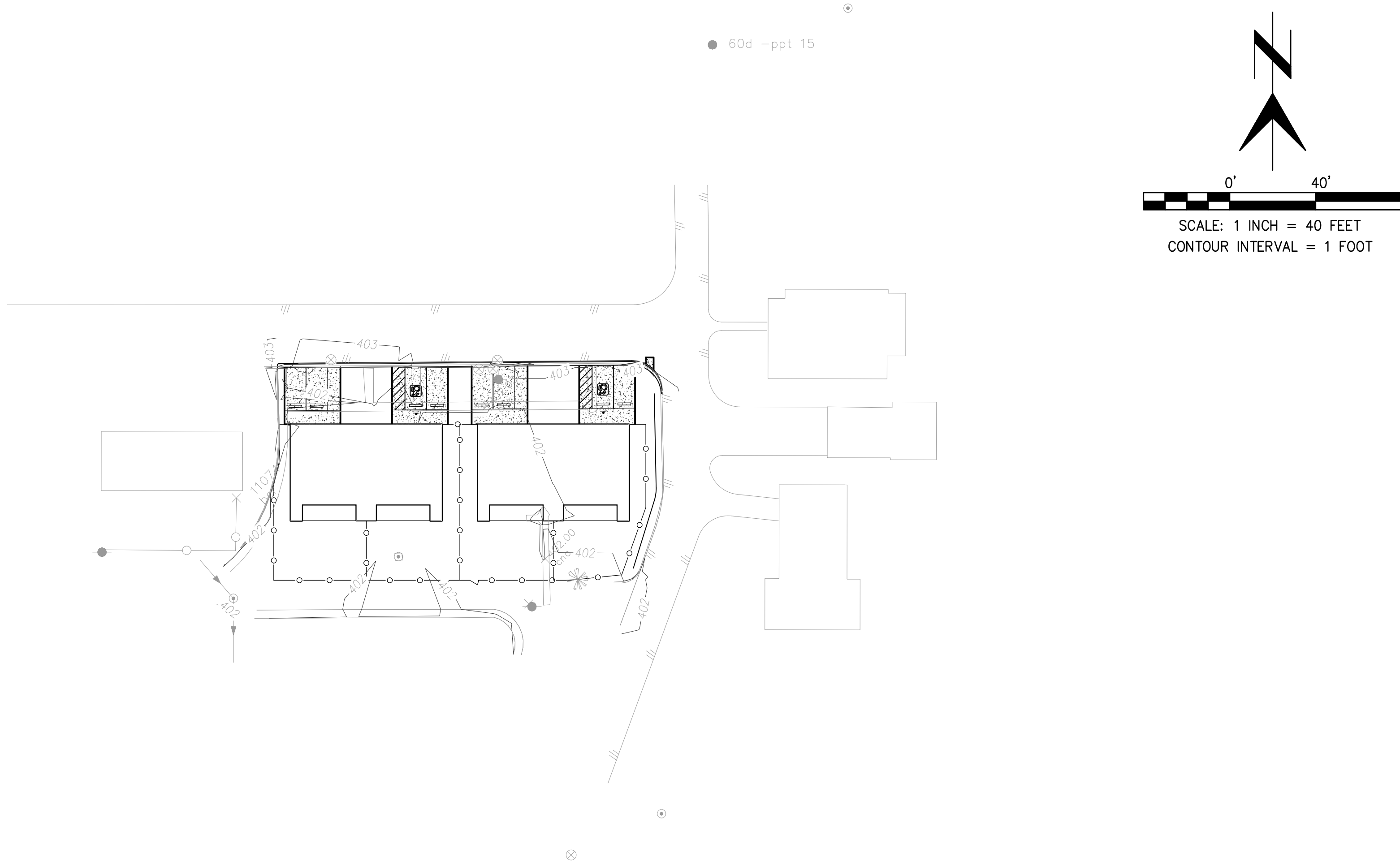
1. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED WHEN CONNECTING A NEW SEWER LINE INTO AN EXISTING SEWER MANHOLE:
2. CORE THROUGH THE CONCRETE AT THE BENCH LEVEL OR IN THE BARREL SECTION TO ACCOMMODATE NEW PIPE;
3. AFTER THE NEW SEWER LINE IS LAID, THE OPENING THROUGH THE WALL AROUND THE NEW PIPE SHALL BE SEALED WITH MATERIAL COMPATIBLE WITH EXISTING MANHOLE WALL COMPONENTS;
4. THE NEW BENCH AND CHANNEL SHALL BE FORMED WITH MORTAR OF CLASS "S" CONCRETE, USING AN EPOXY ADDITIVE TO ASSURE ADEQUATE BONDING TO THE EXISTING BENCH; AND
5. ALL SURFACES SHALL BE STEEL-TROWELED TO CRETE SMOOTH, DENSE SURFACES.

ENGINEER'S ESTIMATED EARTHWORK QUANTITY

CUBIC YARDS CUT.....1
CUBIC YARDS FILL (10% SHRINKAGE).....983

TOTAL (CUBIC YARD IMPORT).....982

*NOTE: PER PROJECT GEOTECHNICAL REPORT, THIS SITE REQUIRES REMOVAL OF EXISTING "UNDOCUMENTED" FILL AS WELL AS ENGINEERED FILL UNDER THE FOUNDATIONS AND OTHER AREAS. THIS CUT AND FILL QUANTITY IS BASED ON THE EXISTING AND PROPOSED GRADES FOR THE SITE, AND DOES NOT INCLUDE ANY ANY OVER-EXCAVATION THE SITE MAY REQUIRE.



LEGEND

	EXISTING GAS - LOCATION APPROXIMATE		EXISTING SANITARY SEWER MANHOLE
	PROPOSED GAS - LOCATION APPROXIMATE		EXISTING CLEAN-OUT
	EXISTING WATER LINE - LOCATION APPROXIMATE		EXISTING LIGHT POLE
	PROPOSED WATER LINE - LOCATION APPROXIMATE		EXISTING UTILITY POLE
	EXISTING OVERHEAD UTILITY		PROPOSED CLEAN-OUT
	EXISTING SEWER - LOCATION APPROXIMATE		PROPOSED WATER METER
	PROPOSED SEWER LINE - LOCATION APPROXIMATE		PROPOSED FIRE HYDRANT
	EXISTING FENCE		PROPOSED WATER VALVE
	FLOWLINE/TOP OF SLOPE LINE		ABANDONED MANHOLE
	EXISTING CONTOUR (MAJOR)		FDC
	EXISTING CONTOUR (MINOR)		EXISTING SPOT GRADE
			PROPOSED SPOT GRADE. ALL GRADES REFLECT GUTTER LINE OR TOP OF SURFACE UNLESS OTHERWISE NOTED.

SHEET INDEX

SHEET C0.1	COVER SHEET AND NOTES
SHEET C1.0	SITE SURVEY
SHEET C2.0	CIVIL SITE/GRADING PLAN
SHEET C3.0	CIVIL UTILITY PLAN
SHEET C4.0	DETAIL SHEET

REVIEWED FOR CODE COMPLIANCE

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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bobbet V. La Guardia

DATE: 02/24/2023

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PARKER INDIAN
HEALTH CENTER
DUPLEX DESIGN

Parker, AZ
IHS PROJECT NO.PH16CR07Q3

U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



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DFF BRANCH CHIEF DATE

CONCURRENCE:

DFF CHIEF DATE

01-20-2023 PERMIT REVISIONS
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ISSUE: JULY 26, 2022 - Construction Documents

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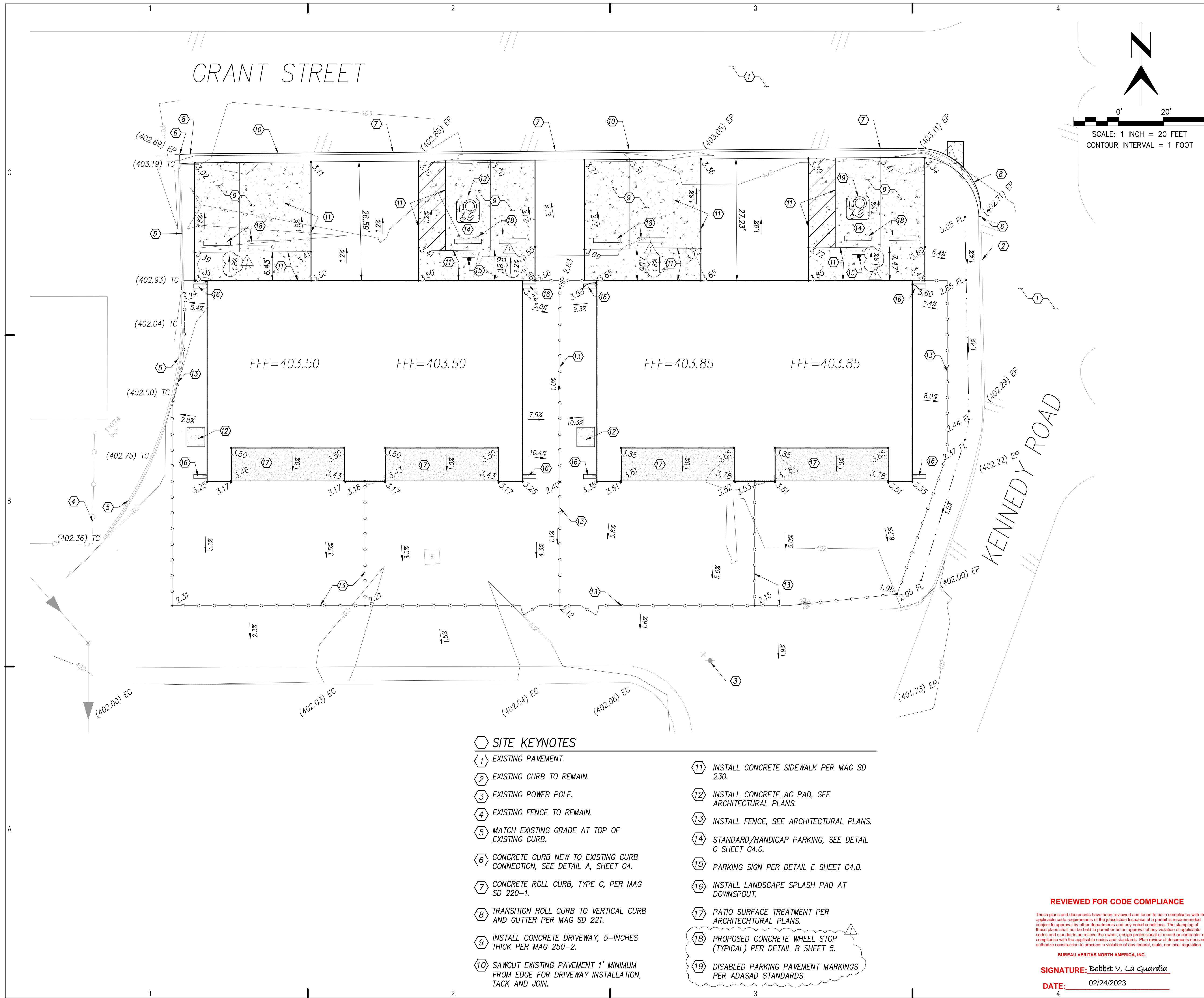
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COVER SHEET

C0.1

Sheet 5 of 48



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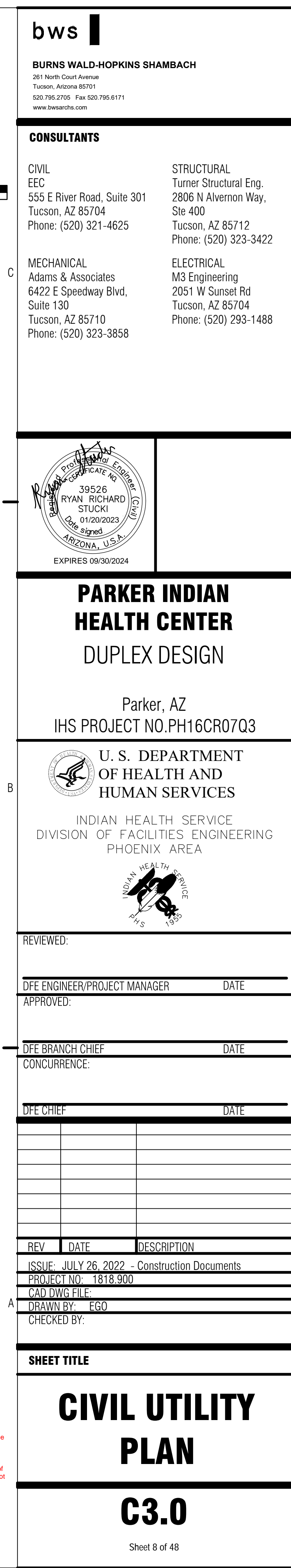
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CIVIL SITE PLAN

C2.0
Sheet 7 of 48

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BUREAU VERITAS NORTH AMERICA, INC.
SIGNATURE: Bobbet V. La Guardia
DATE: 02/24/2023



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SIGNATURE: Bobbet V. La Guardia

4

Sheet 8 of 48

Sheet 8 of 48

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DFO CHIEF

DATE

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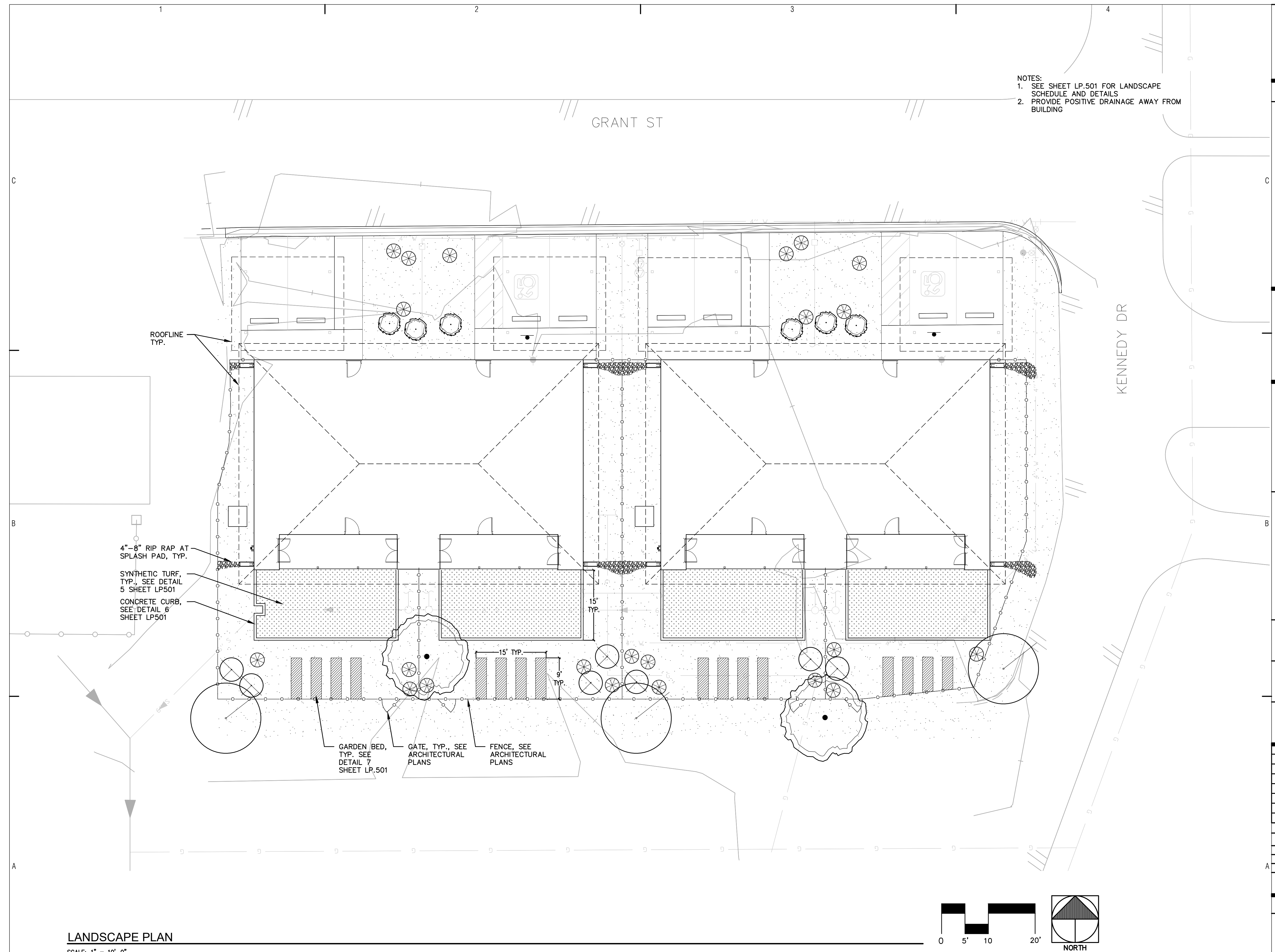
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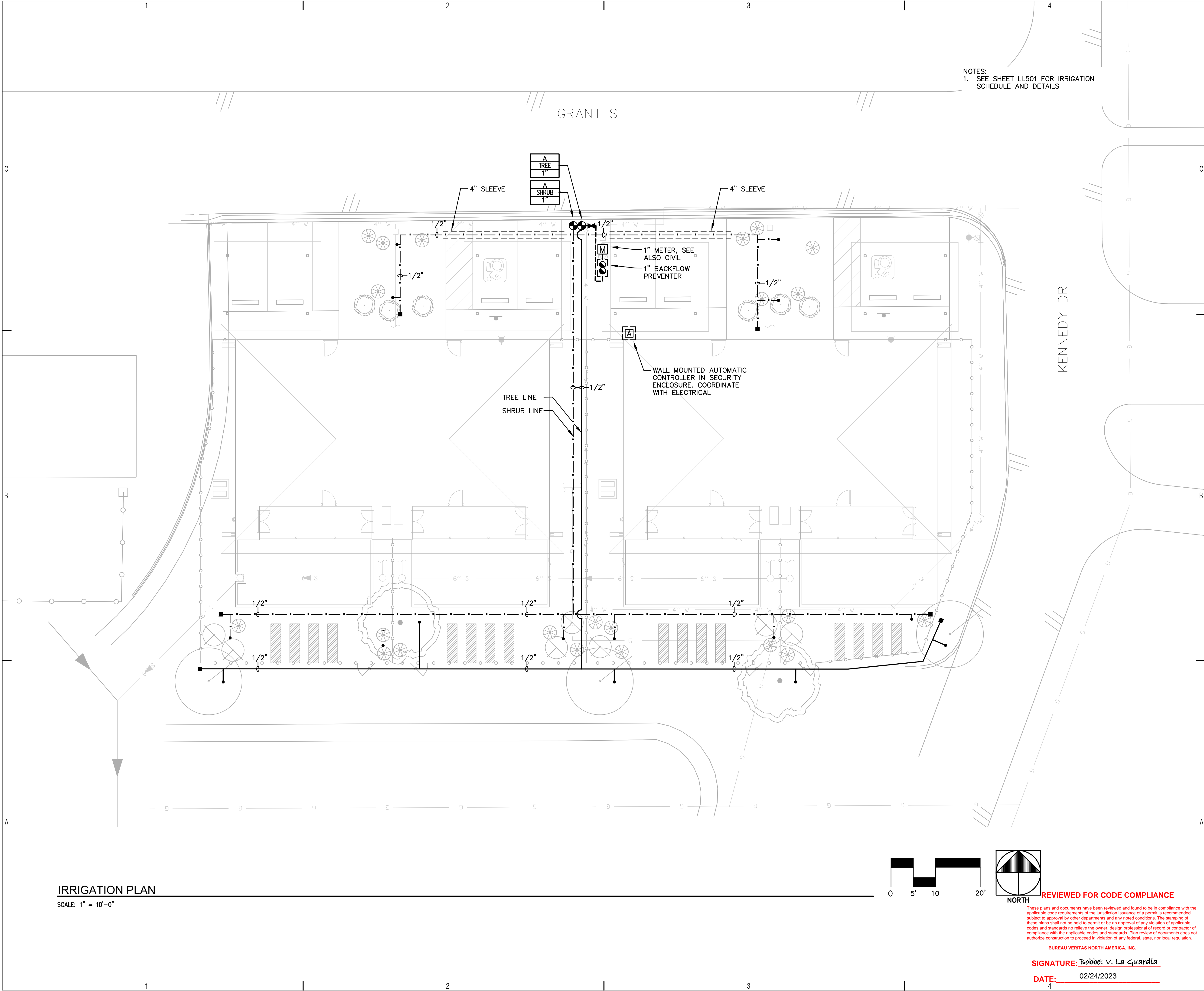
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LANDSCAPE PLAN

Sheet 10 of 48





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PARKER INDIAN
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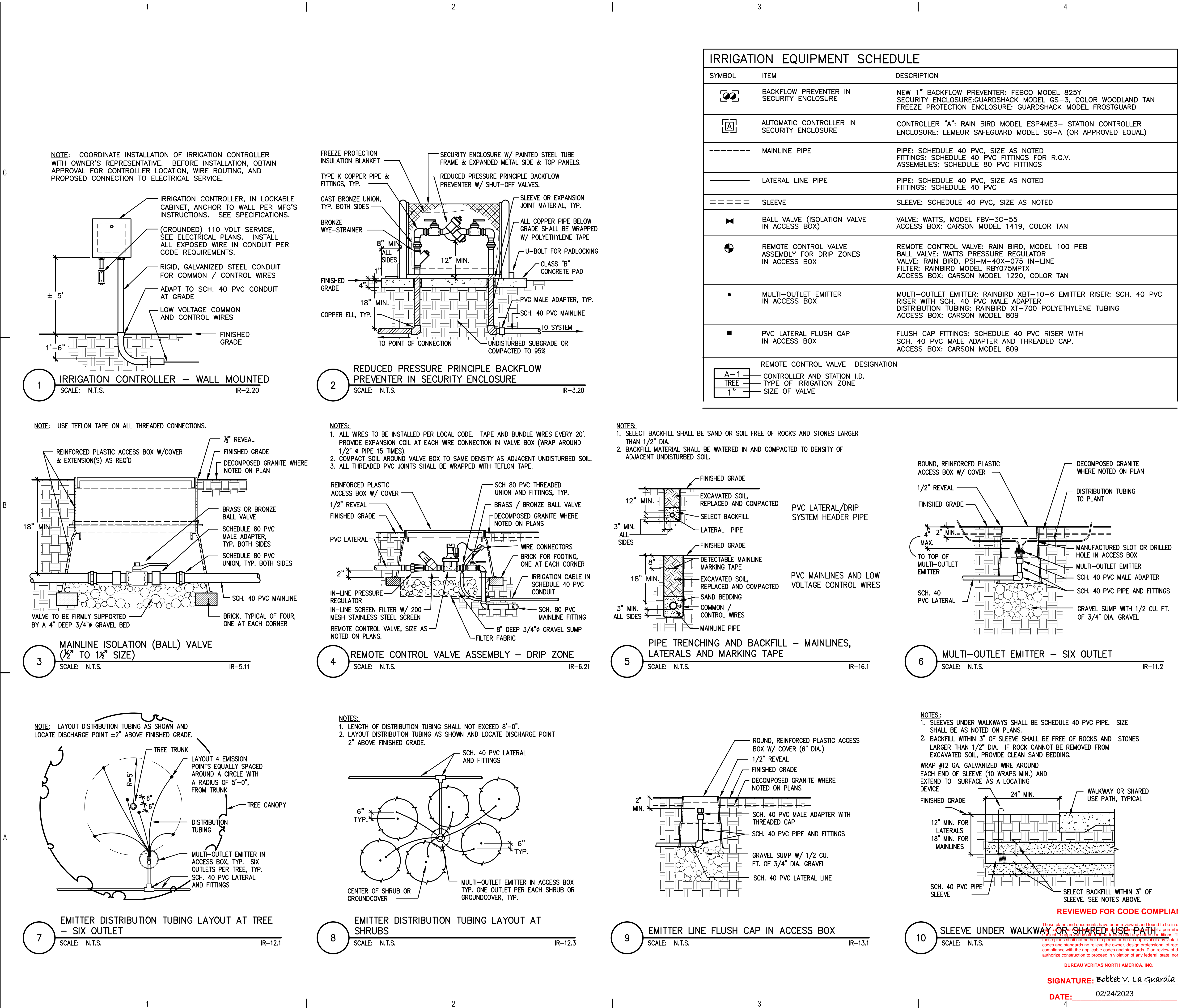
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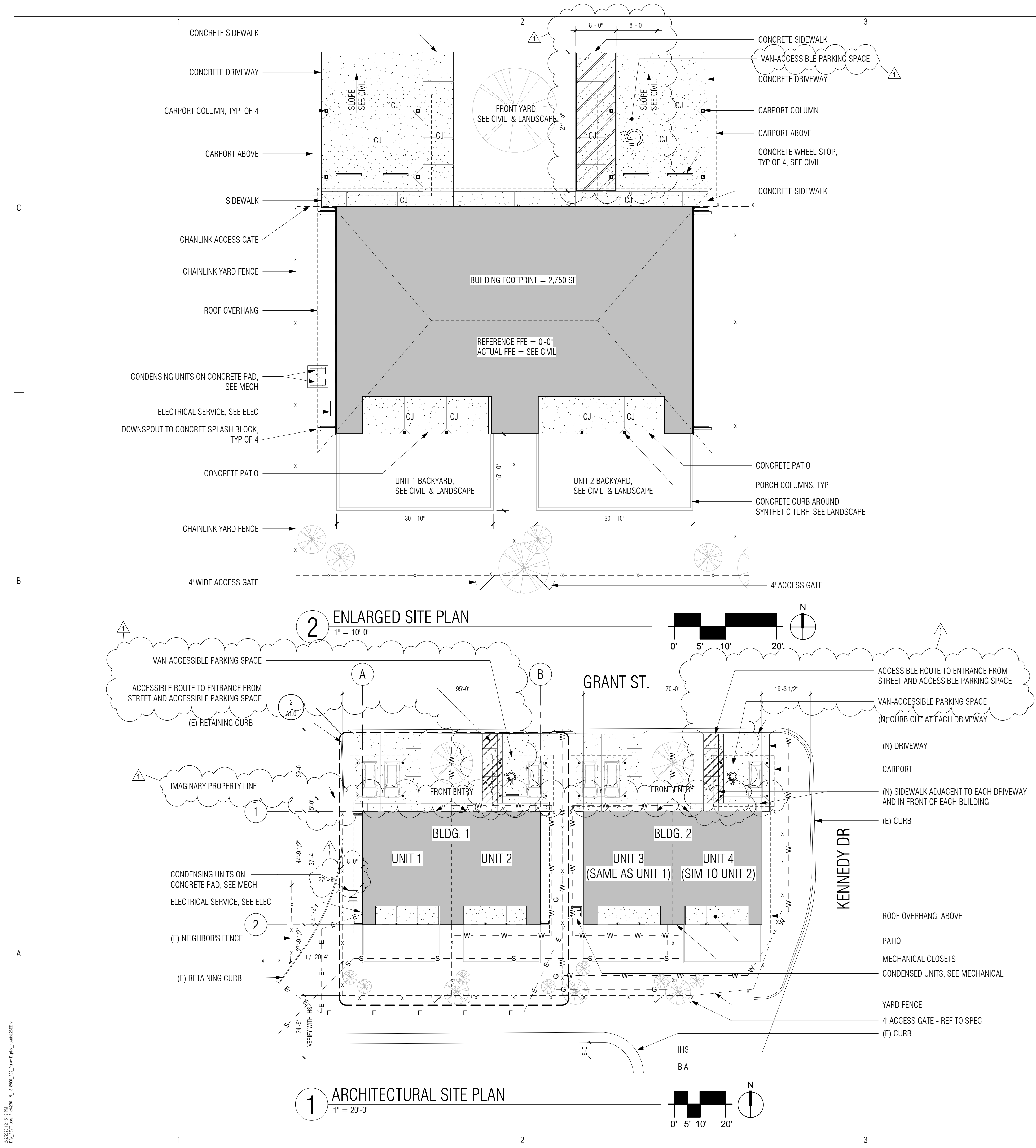
SHEET TITLE

IRRIGATION PLAN

LI.101

Sheet 12 of 48





SITE PLAN GENERAL NOTES

- A. UNDERGROUND UTILITY LOCATIONS HAVE NOT BEEN VERIFIED FOR LOCATION OR SIZE. CONTRACTOR TO VERIFY LOCATION AND SIZE OF UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
- B. CONTRACTOR IS RESPONSIBLE FOR ALL BARRICADES & SAFETY CONCERNS WITHINT & ADJACENT TO CONSTRUCTION.
- C. FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO CONSTRUCTION
- D. REFER TO CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR MORE INFORMATION & UTILITY COORDINATION
- E. CONTACTOR SHALL PATCH & REPAIR ALL EXISTING FINISHES ADJACENT TO DEMOLITION AS REQUIRED.
- F. REFER TO CIVIL FOR BUILDING FINISH ELEVATION AND OTHER SITE INFORMATION.

SITE DATA

APARTMENT UNITS:	4 UNITS
REQUIRED PARKING:	8 SPACES
FOOTPRINT PER BUILDING:	2,750 SF
FOOTPRINT TOTAL:	5,312 SF
CONCRETE PAVING PER BUILDING:	985 SF
CONCRETE TOTAL PAVING:	1,970 SF

SITE PLAN LEGEND

- CONCRETE SIDEWALKS, PATIO AND DRIVEWAYS
- BUILDING FOOTPRINT
- SITE VISIBILITY TRIANGLES
- SITE BOUNDARY
- (E) CHAINLINK FENCE
- PROPOSED CHAIN LINK FENCE
- (E) WATER LINE
- PROPOSED WATER LINE
- (E) SEWER LINE
- PROPOSED SEWER LINE
- (E) GAS LINES
- PROPOSED GAS LINES
- (E) UNDERGROUND ELECTRICAL LINES
- (E) OVERHEAD ELECTRICAL LINES
- PROPOSED UNDERGROUND ELECTRICAL LINES
- CONTOUR LINES
- SC SIDEWALK SCUPPER
- (E) EXISTING
- SEWER MANHOLE
- SEWER CLEANOUT

BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bobbet V. La Guardia

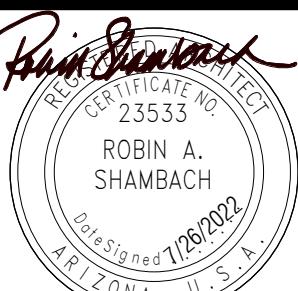
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EXPIRES 06/30/2025

PARKER INDIAN HEALTH CENTER
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Parker, AZ
IHS PROJECT NO. PH21CR03Q3



INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
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ARCHITECTURAL SITE PLAN

A1.0

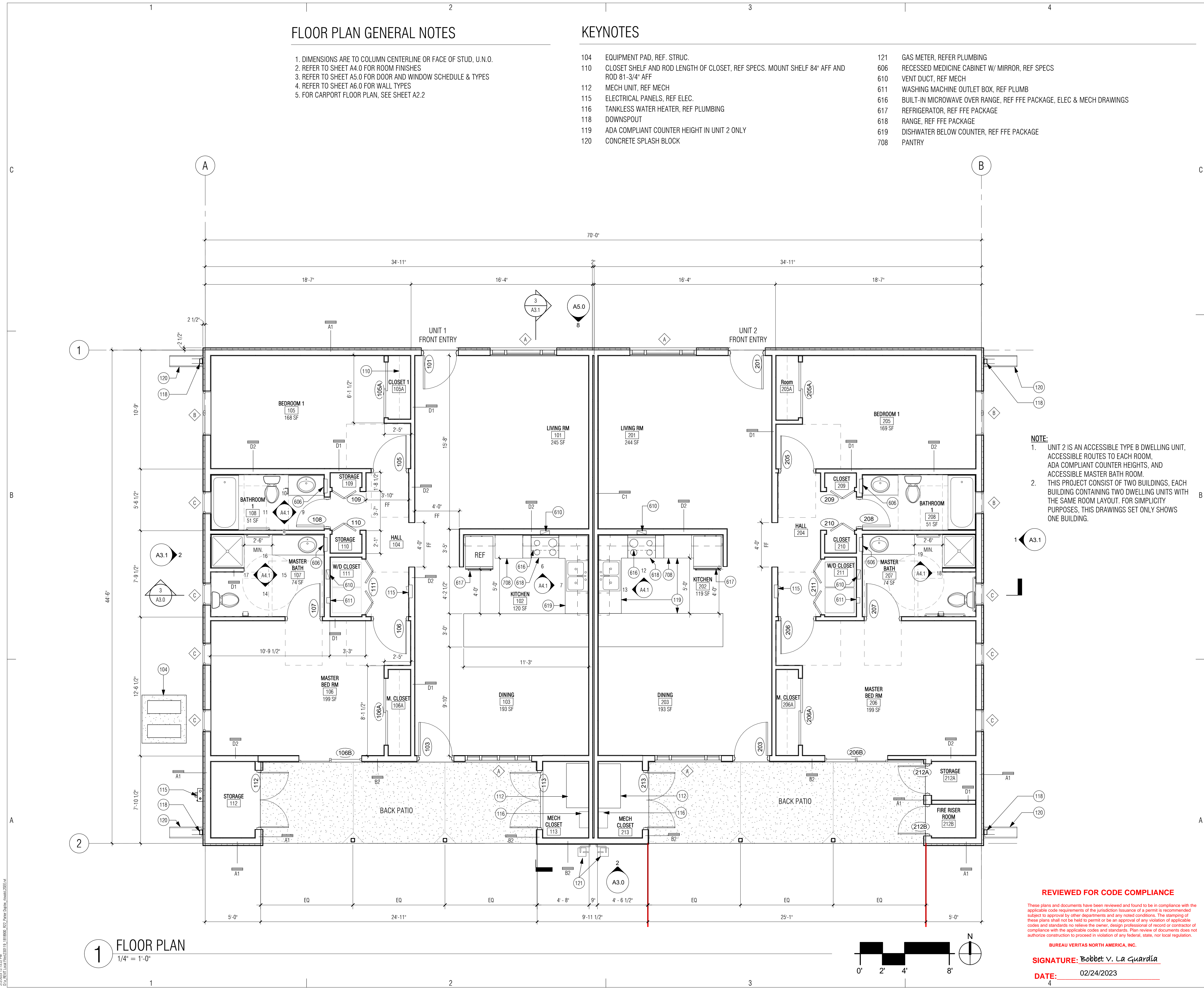
Sheet 14 of 48

FLOOR PLAN GENERAL NOTES

1. DIMENSIONS ARE TO COLUMN CENTERLINE OR FACE OF STUD, U.N.O.
2. REFER TO SHEET A4.0 FOR ROOM FINISHES
3. REFER TO SHEET A5.0 FOR DOOR AND WINDOW SCHEDULE & TYPES
4. REFER TO SHEET A6.0 FOR WALL TYPES
5. FOR CARPORT FLOOR PLAN, SEE SHEET A2.2

KEYNOTES

- | | | | |
|-----|---|-----|--|
| 104 | EQUIPMENT PAD, REF. STRUC. | 121 | GAS METER, REFER PLUMBING |
| 110 | CLOSET SHELF AND ROD LENGTH OF CLOSET, REF SPECS. MOUNT SHELF 84" AFF AND ROD 81-3/4" AFF | 606 | RECESSED MEDICINE CABINET W/ MIRROR, REF SPECS |
| 112 | MECH UNIT, REF MECH | 610 | VENT DUCT, REF MECH |
| 115 | ELECTRICAL PANELS, REF ELEC. | 611 | WASHING MACHINE OUTLET BOX, REF PLUMB |
| 116 | TANKLESS WATER HEATER, REF PLUMBING | 616 | BUILT-IN MICROWAVE OVER RANGE, REF FFE PACKAGE, ELEC & MECH DRAWINGS |
| 118 | DOWNSPOUT | 617 | REFRIGERATOR, REF FFE PACKAGE |
| 119 | ADA COMPLIANT COUNTER HEIGHT IN UNIT 2 ONLY | 618 | RANGE, REF FFE PACKAGE |
| 120 | CONCRETE SPLASH BLOCK | 619 | DISHWATER BELOW COUNTER, REF FFE PACKAGE |
| | | 708 | PANTRY |

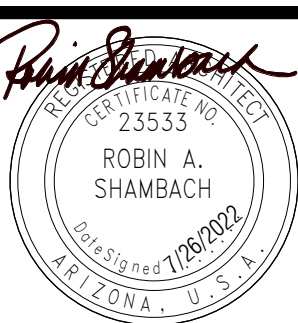


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FLOOR PLAN

A2.0

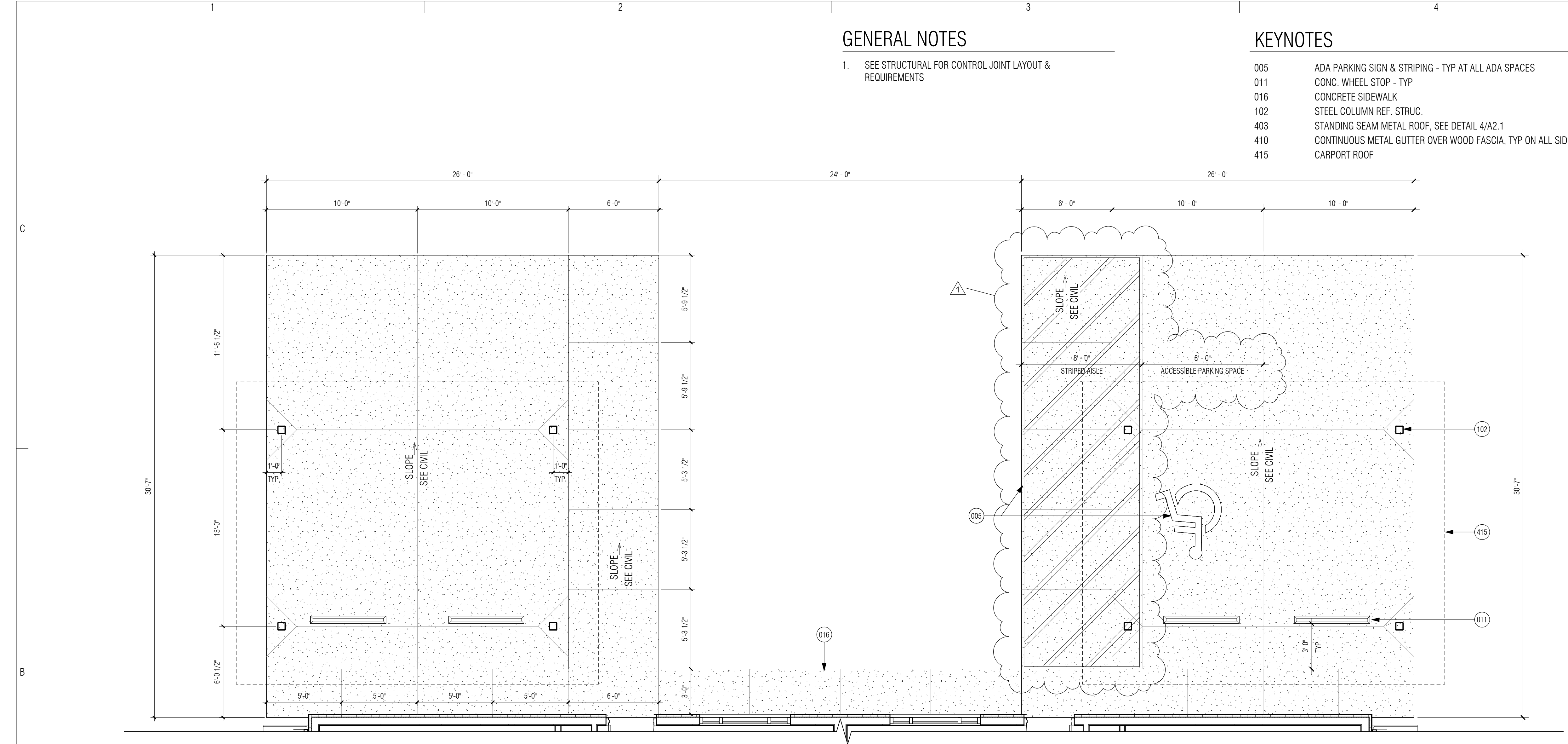
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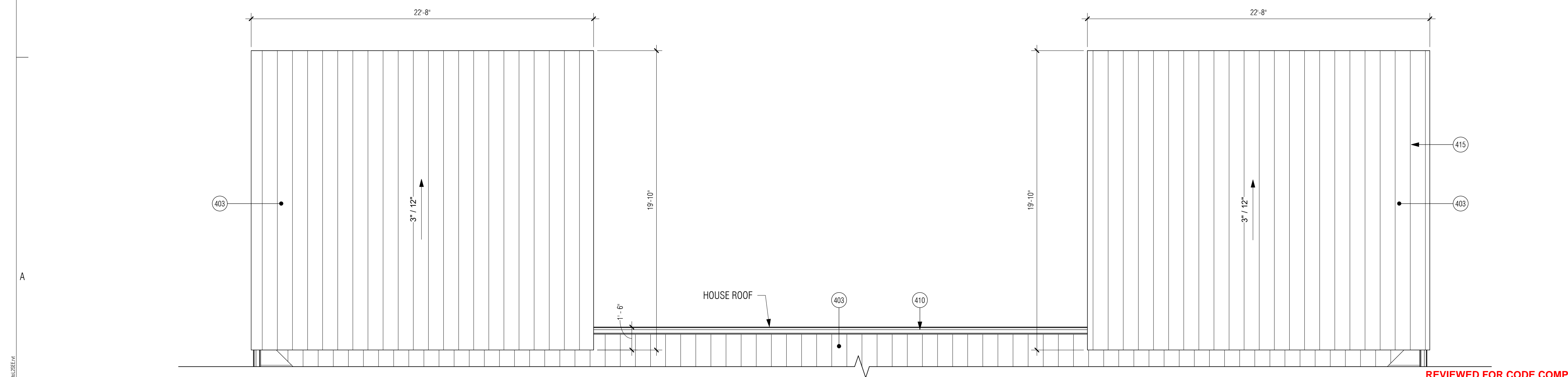
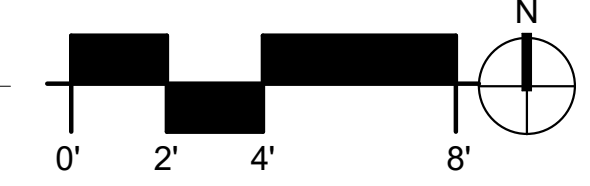
400 EXHAUST DUCT W/ ROOF CAP. REFER TO MECH DWGS
401 10" TUBULAR SKYLIGHT, TYPICAL
402 STANDING SEAM METAL ROOF. SEE DETAIL 4/A2.1
403 VENT PENETRATION, REFER TO PLUMB DWGS
404 CONTINUOUS METAL GUTTER OVER WOOD FASCIA, TYP ON ALL SIDES
405 RANGE HOOD ROOF VENT, REFER TO MECH DWGS
406 DRYER ROOF VENT, REFER TO MECH DWGS
407 WATER HEATER ROOF VENT, REFER TO MECH DWGS



Sheet 16 of 48



1 CARPORT FLOOR PLAN
1/4" = 1'-0"



2 CARPORT ROOF PLAN
1/4" = 1'-0"

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BUREAU LIBERTAS NORTH AMERICA INC.

SIGNATURE: *Eric A. LaGuardia*

DATE: 4' 02/24/2023

GENERAL NOTES

1. SEE STRUCTURAL FOR CONTROL JOINT LAYOUT & REQUIREMENTS

KEYNOTES

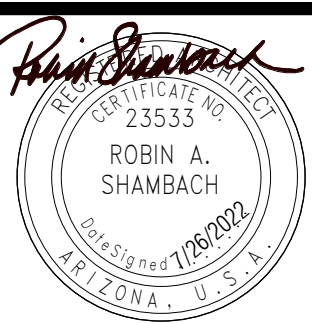
- | | |
|-----|--|
| 005 | ADA PARKING SIGN & STRIPING - TYP AT ALL ADA SPACES |
| 011 | CONC. WHEEL STOP - TYP |
| 016 | CONCRETE SIDEWALK |
| 102 | STEEL COLUMN REF. STRUC. |
| 403 | STANDING SEAM METAL ROOF, SEE DETAIL 4/A2.1 |
| 410 | CONTINUOUS METAL GUTTER OVER WOOD FASCIA, TYP ON ALL SIDES |
| 415 | CARPORT ROOF |

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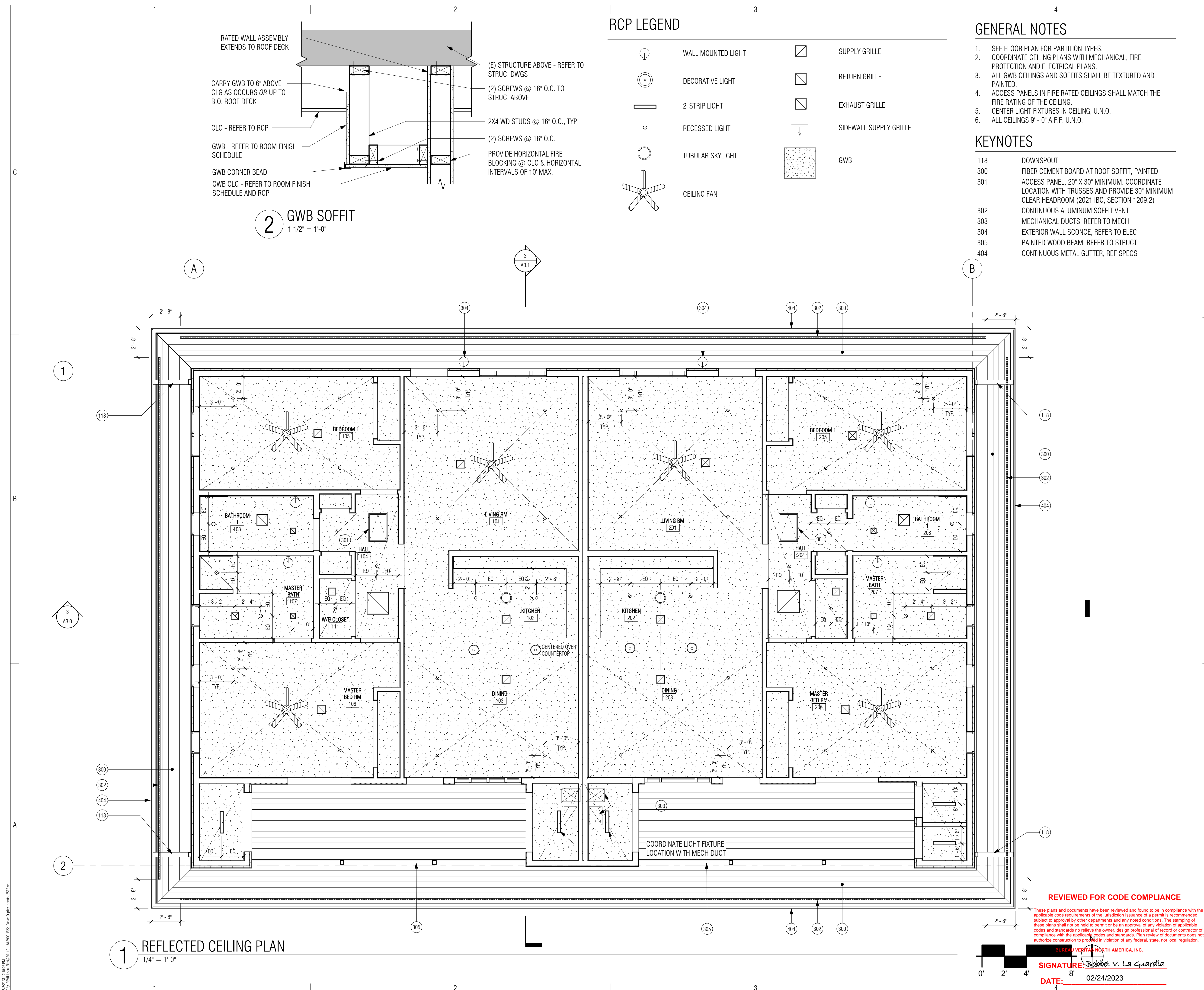


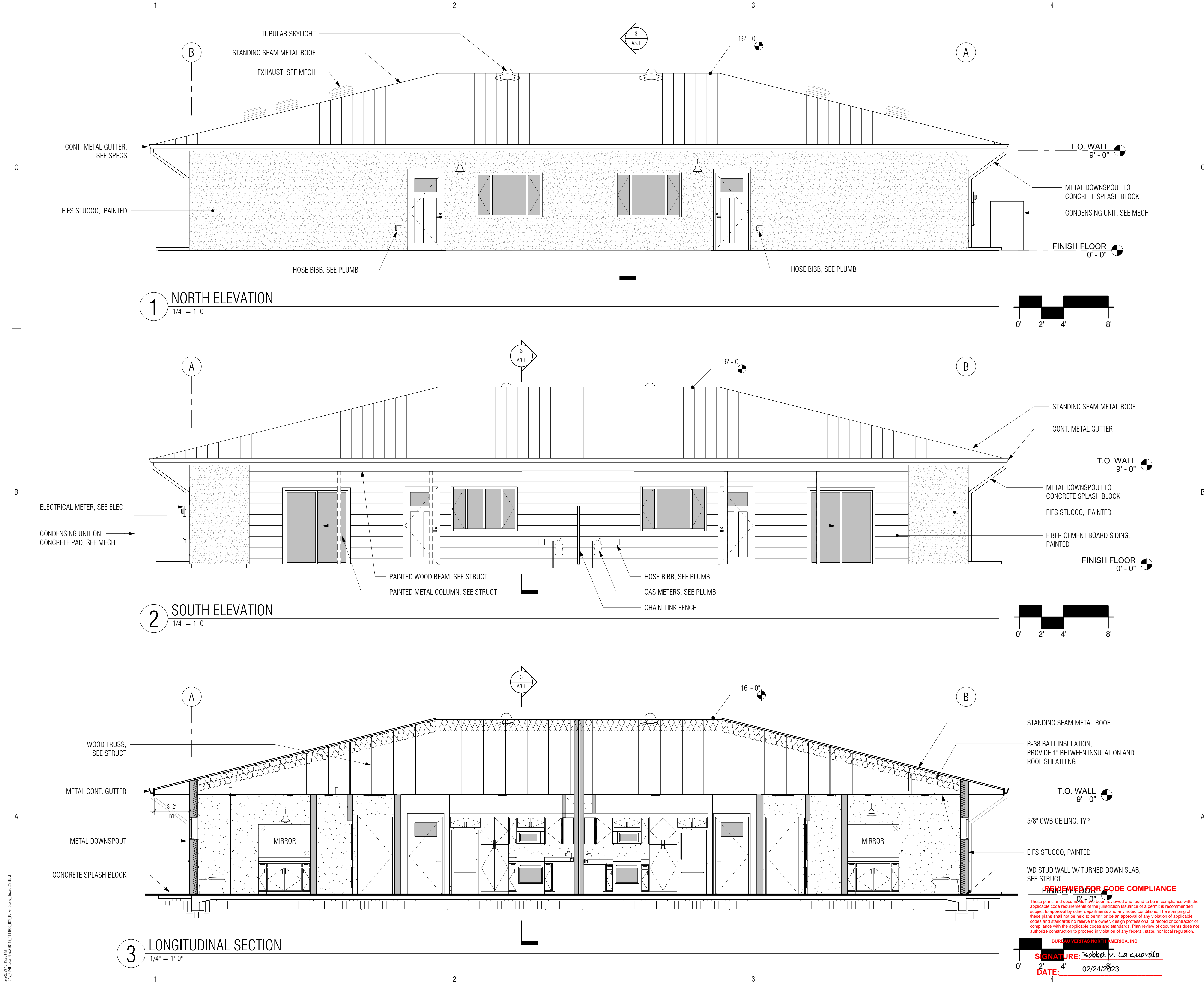
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CARPORT FLOOR AND ROOF PLANS

A2.2

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**ELEVATIONS & BUILDING
SECTIONS**

A3.0

Sheet 19 of 48

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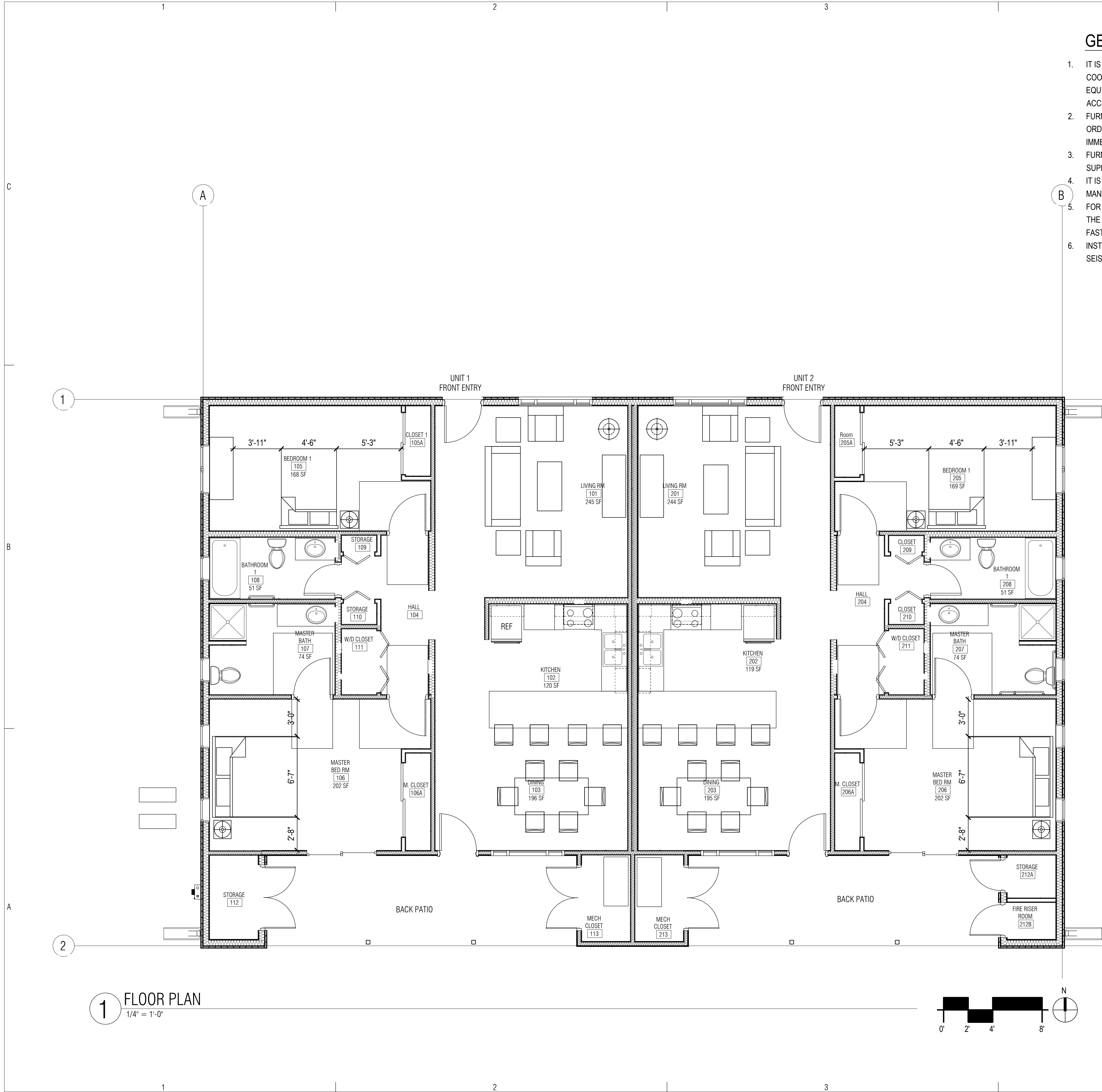
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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Robert V. La Guardia

DATE: 02/24/2023





GENERAL NOTES:

- 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ELECTRICAL & DATA OUTLETS WITH FURNITURE & EQUIPMENT IN ORDER TO ENSURE ALL OUTLETS ARE ACCESSIBLE
- 2. FURNITURE VENDOR TO FIELD MEASURE ALL AREAS PRIOR TO ORDER AND ADVISE CONTRACTOR OF ANY DISCREPANCIES IMMEDIATELY.
- 3. FURNITURE VENDOR TO FIELD VERIFY BUILDING UTILITIES TO SUPPORT FURNITURE PRIOR TO ORDER.
- 4. IT IS THE RESPONSIBILITY OF THE INSTALLER TO FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES.
- 5. FOR ALL WALL MOUNTED ITEMS, IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT ALL ITEMS ARE SECURELY FASTENED TO THE WALL STUDS.
- 6. INSTALLATION MUST BE IN ACCORDANCE WITH REGIONAL SEISMIC SAFETY REQUIREMENTS.

NOTE:
1. UNIT 2 IS AN ACCESSIBLE TYPE B DWELLING UNIT, ACCESSIBLE ROUTES TO EACH ROOM, ADA COMPLIANT COUNTER HEIGHTS, AND ACCESSIBLE MASTER BATH ROOM.
2. THIS PROJECT CONSIST OF TWO BUILDINGS, EACH BUILDING CONTAINING TWO DWELLING UNITS WITH THE SAME ROOM LAYOUT. FOR SIMPLICITY PURPOSES, THIS DRAWINGS SET ONLY SHOWS ONE BUILDING.

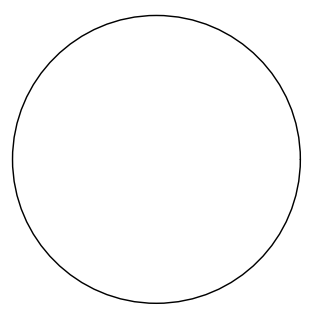
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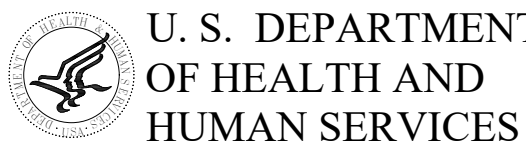
CONSULTANTS

CIVIL EEC 555 E River Road, Suite 301 Tucson, AZ 85704 Phone: (520) 321-4625	STRUCTURAL Turner Structural Eng. 2806 N Alvernon Way, Suite 400 Tucson, AZ 85712 Phone: (520) 323-3422
MECHANICAL Zona Technical Engineering 6422 E Speedway BLVD, Suite 130 Tucson, AZ 85710 Phone: (520) 200-2612	ELECTRICAL M3 Engineering 2051 W Sunset Rd Tucson, AZ 85704 Phone: (520) 293-1488

INTERIOR DESIGN
J Sweet Commercial Designs, LLC
10441 E. Avalon Park St,
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PARKER QUARTERS



INDIAN HEALTH SERVICE
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DFF BRANCH CHIEF DATE

CONCURRENCE:

DFF CHIEF DATE

REV	DATE	DESCRIPTION
ISSUE: 7/26/2022 - CONSTRUCTION DOCUMENTS		
PROJECT NO: 1818.800		
CAD DWG FILE:		
DRAWN BY: MW		
CHECKED BY: JS		

SHEET TITLE

FURNITURE PLAN

F1.0

Sheet 25 of 48

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BUREAU VERITAS NORTH AMERICA, INC.

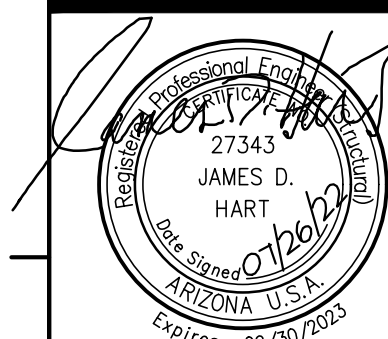
SIGNATURE: Bobbet V. La Guardia

DATE: 02/24/2023


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Tucson, AZ 85710	Phone: (520) 293-1488
Phone: (520) 200-2612	



Parker, AZ
IHS PROJECT NO.PH21CR03Q3



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DFE ENGINEER/PROJECT MANAGER
DATE

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DEF BRANCH CHIEF _____ DATE _____

CONCURRENCE

DFE CHIEF DATE

[illegible]

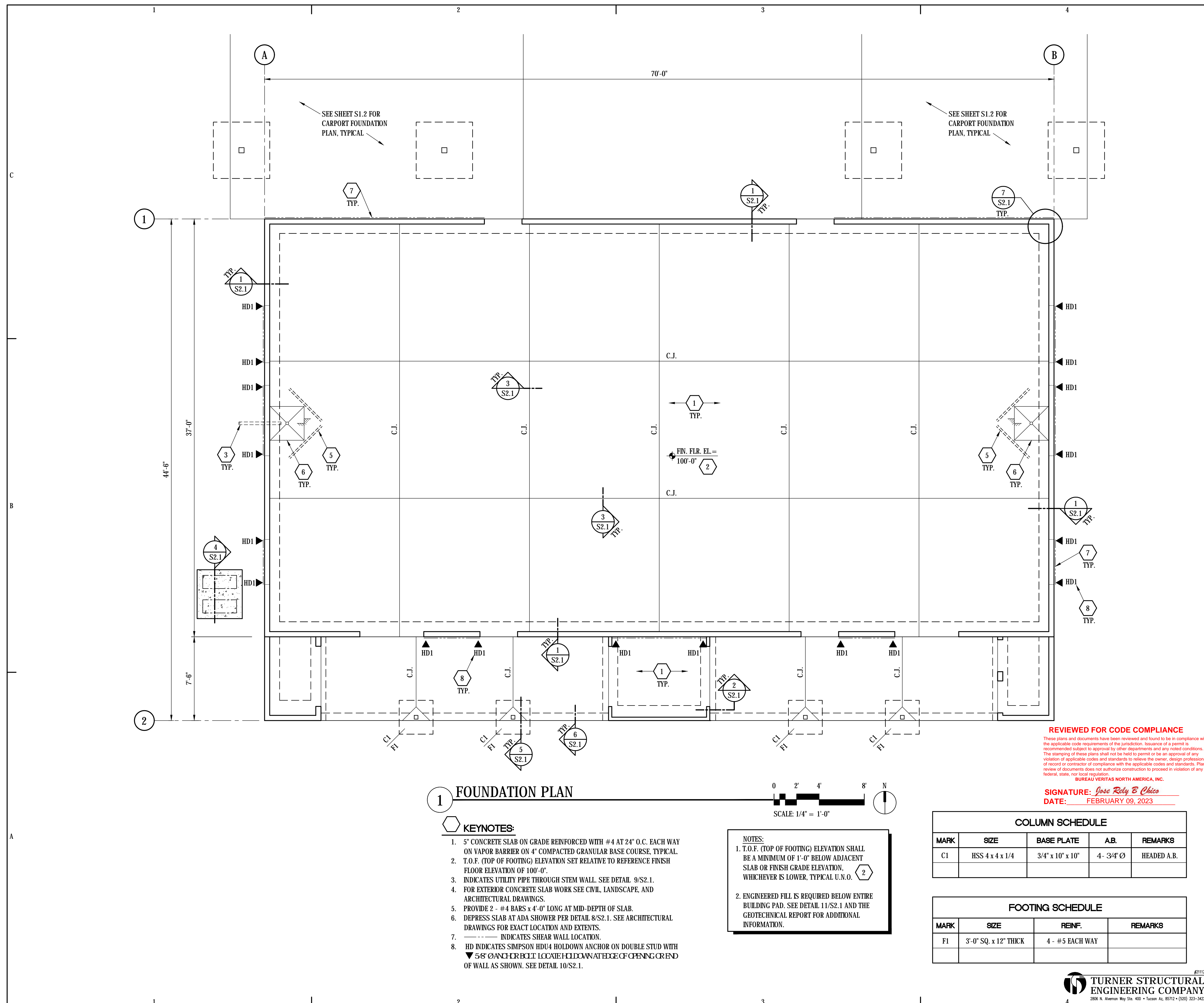
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CAD DWG FILE: 21112		
DRAWN BY: TBC		
CHECKED BY: JDH		

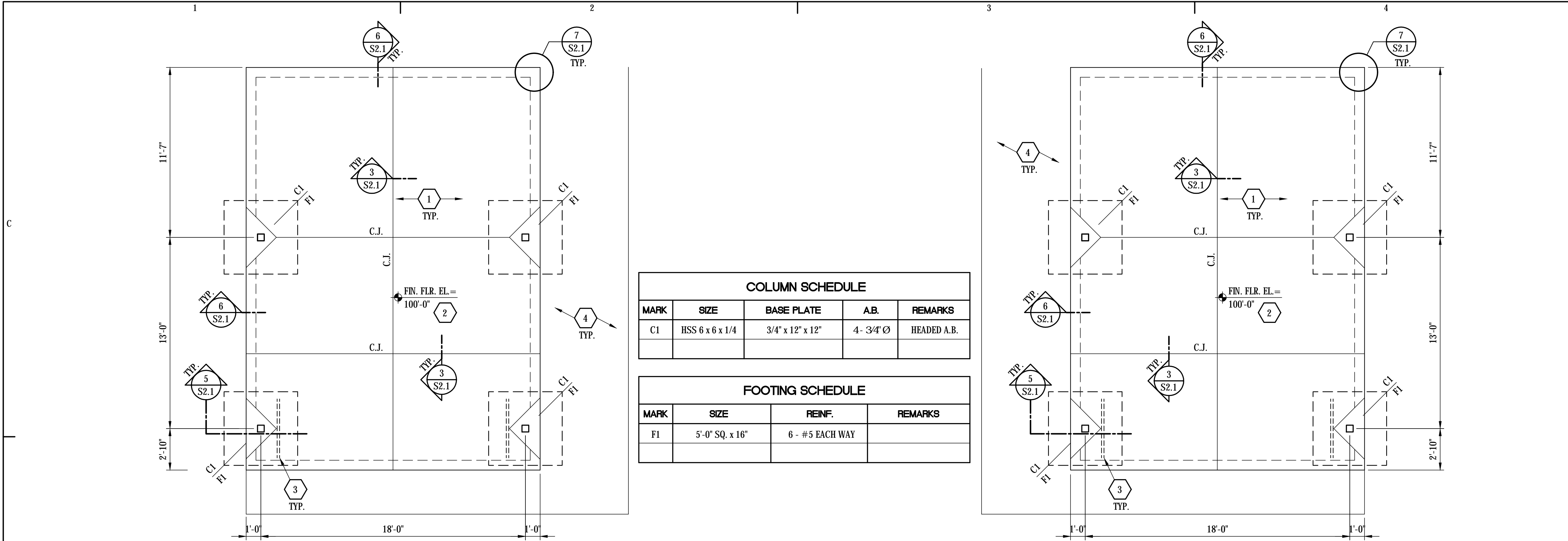
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FOUNDATION PLAN

S1.1

Sheet 27 of 48





1 FOUNDATION PLAN - Carport

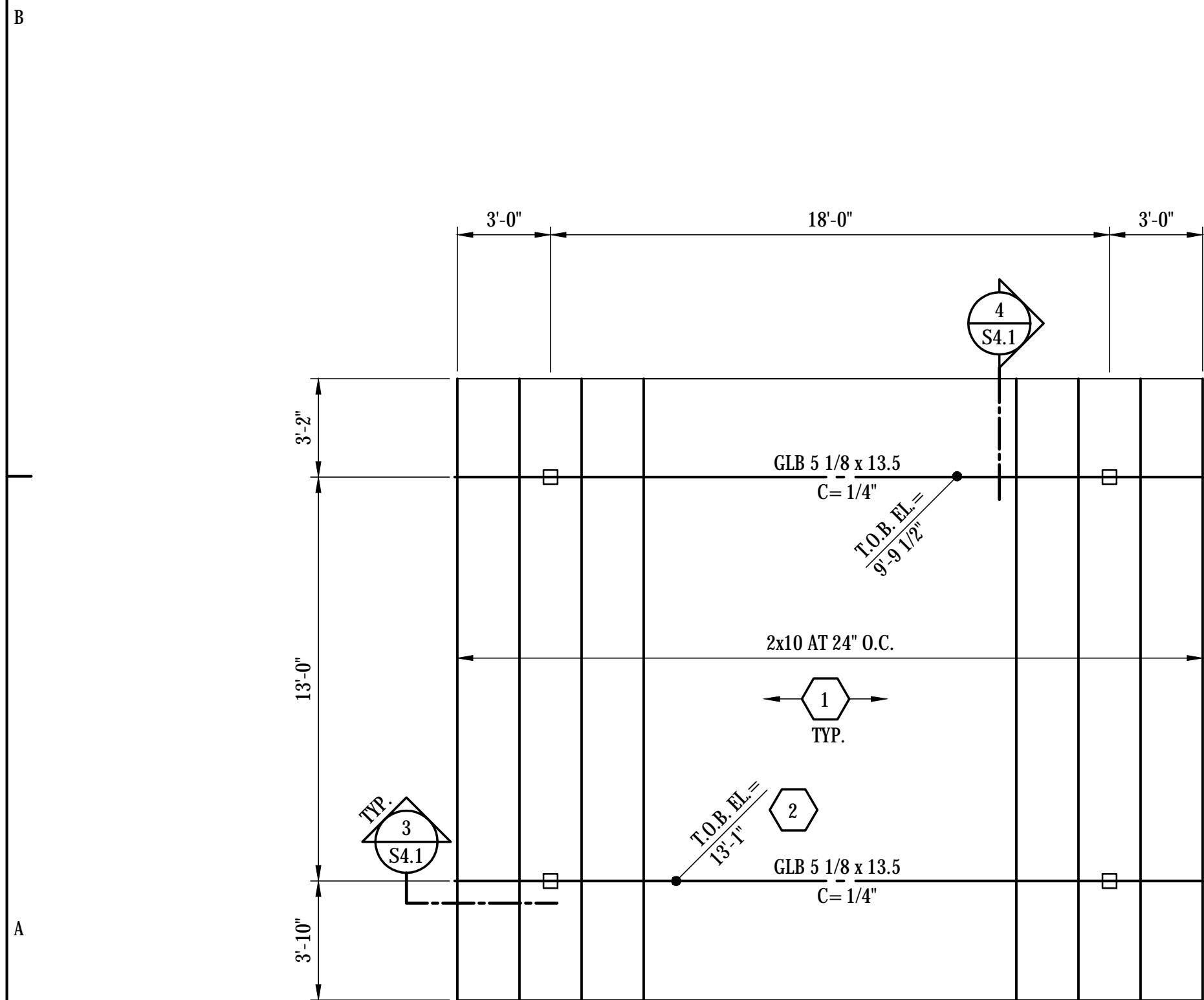


FOUNDATION KEYNOTES:

- 5" CONCRETE SLAB ON GRADE REINFORCED WITH #4 AT 24" O.C. EACH WAY ON 4" COMPACTED GRANULAR BASE COURSE, TYPICAL.
- T.O.F. (TOP OF FOOTING) ELEVATION SET RELATIVE TO REFERENCE FINISH FLOOR ELEVATION OF 100'-0".
- PROVIDE 2 - #4 BARS x 4'-0" LONG AT MID-DEPTH OF SLAB.
- FOR EXTERIOR CONCRETE SLAB WORK SEE CIVIL, LANDSCAPE, AND ARCHITECTURAL DRAWINGS.

NOTES:

- T.O.F. (TOP OF FOOTING) ELEVATION SHALL BE A MINIMUM OF 1'-0" BELOW ADJACENT SLAB OR FINISH GRADE ELEVATION, WHICHEVER IS LOWER, TYPICAL U.N.O.
- ENGINEERED FILL IS REQUIRED BELOW ENTIRE BUILDING PAD. SEE DETAIL 11/S2.1 AND THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

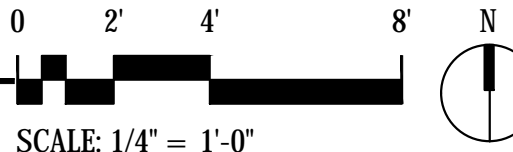
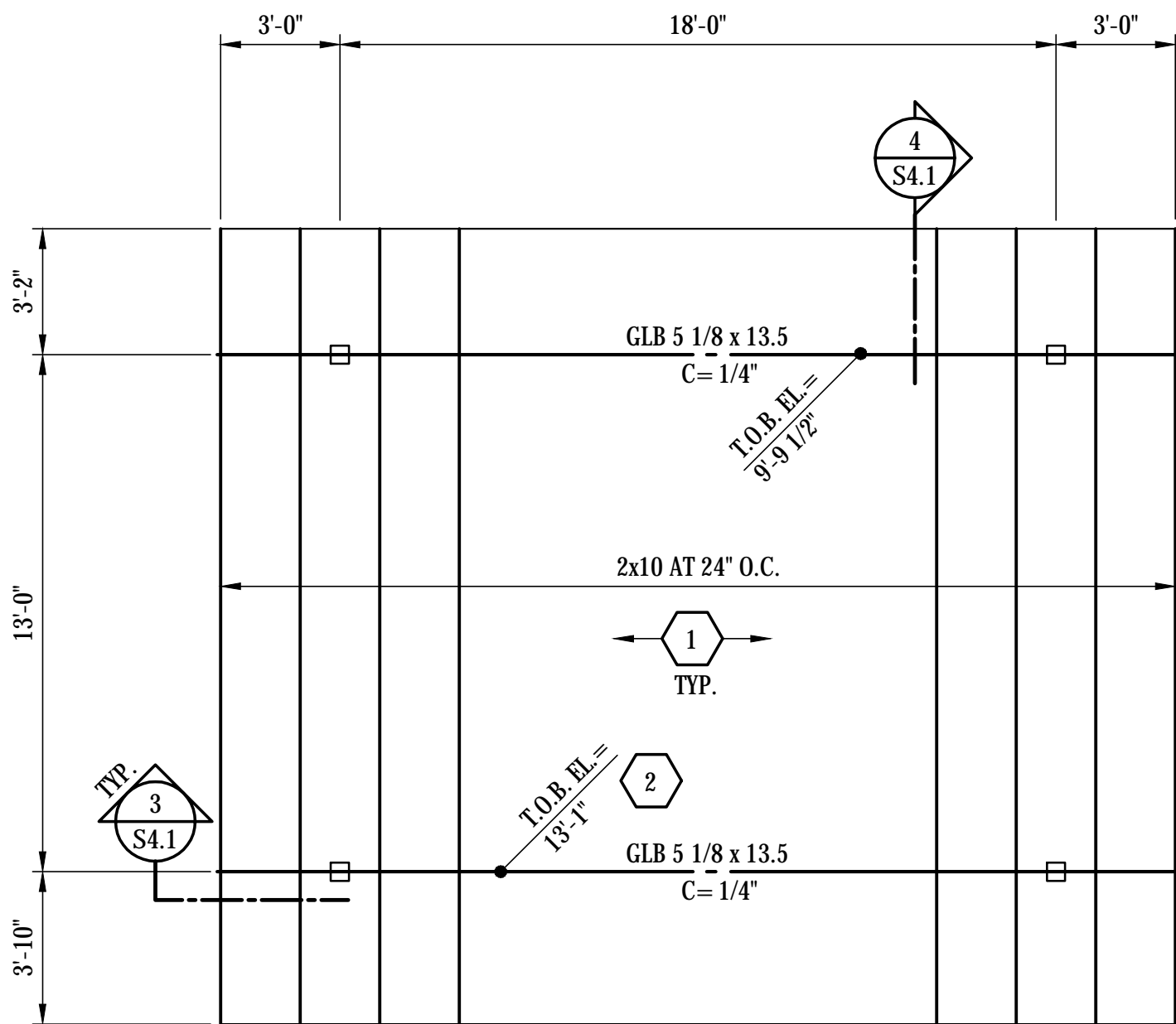
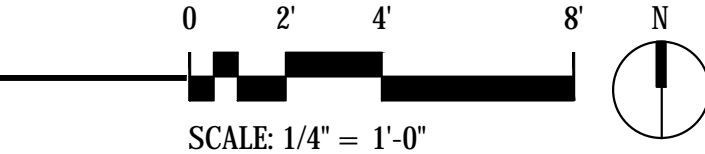


2 ROOF FRAMING PLAN - Carport



FRAMING KEYNOTES:

- 1/2" PLYWOOD SHEATHING (OR OSB) , (PI = 32/16) WITH 8d NAILS AT 6" O.C. ALL SUPPORTED PANEL EDGES, AND 8d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS, TYPICAL.
- T.O.B. (TOP OF BEAM), ELEVATIONS SET RELATIVE TO REFERENCE FINISH FLOOR ELEVATION OF 0'-0".



REVIEWED FOR CODE COMPLIANCE
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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: *Jose Rely E Chico*
DATE: FEBRUARY 09, 2023

TURNER STRUCTURAL
ENGINEERING COMPANY
2806 N. Alvernon Way Ste. 400 • Tucson Az, 85712 • (520) 323-3422

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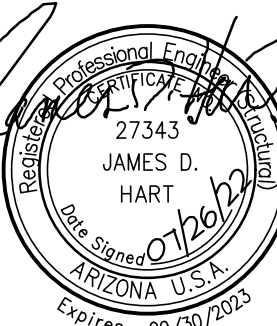
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PARKER INDIAN
HEALTH CENTER
DUPLEX DESIGN

Parker, AZ
IHS PROJECT NO. PH21CR03Q3

U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



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DFE BRANCH CHIEF DATE

CONCURRENCE:

DFE CHIEF DATE

REV DATE DESCRIPTION

ISSUE: July 26, 2022 Construction Documents

PROJECT NO: 1818.900

CAD DWG FILE: 21112

DRAWN BY: TBG

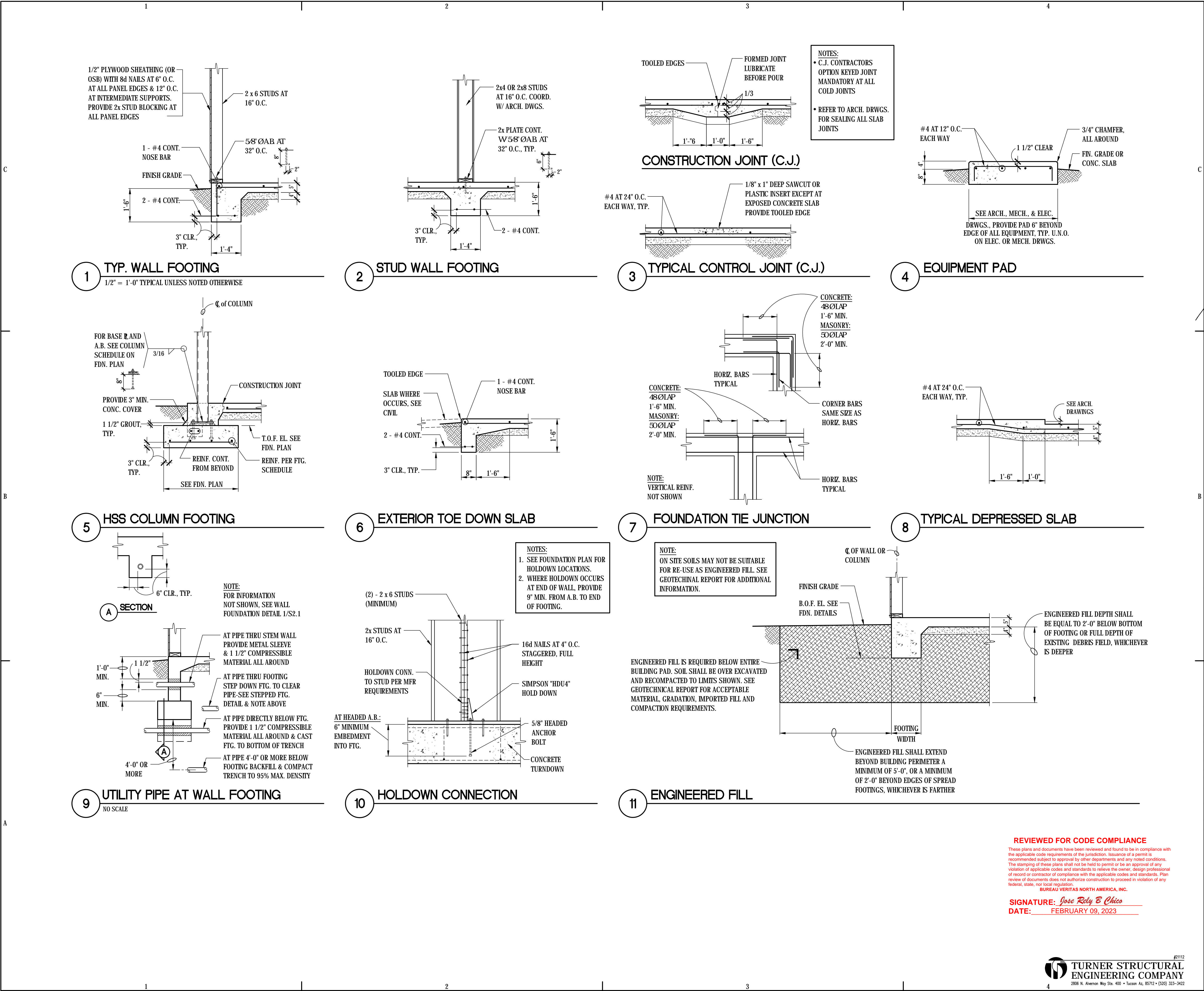
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SHEET TITLE

FOUNDATION AND ROOF
FRAMING PLANS -
Carport

S1.2

Sheet 28 of 48



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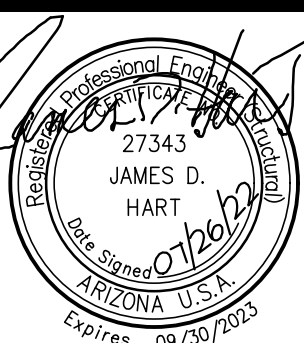
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Parker, AZ
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PROJECT NO: 1818.900

CAD DWG FILE: 211112

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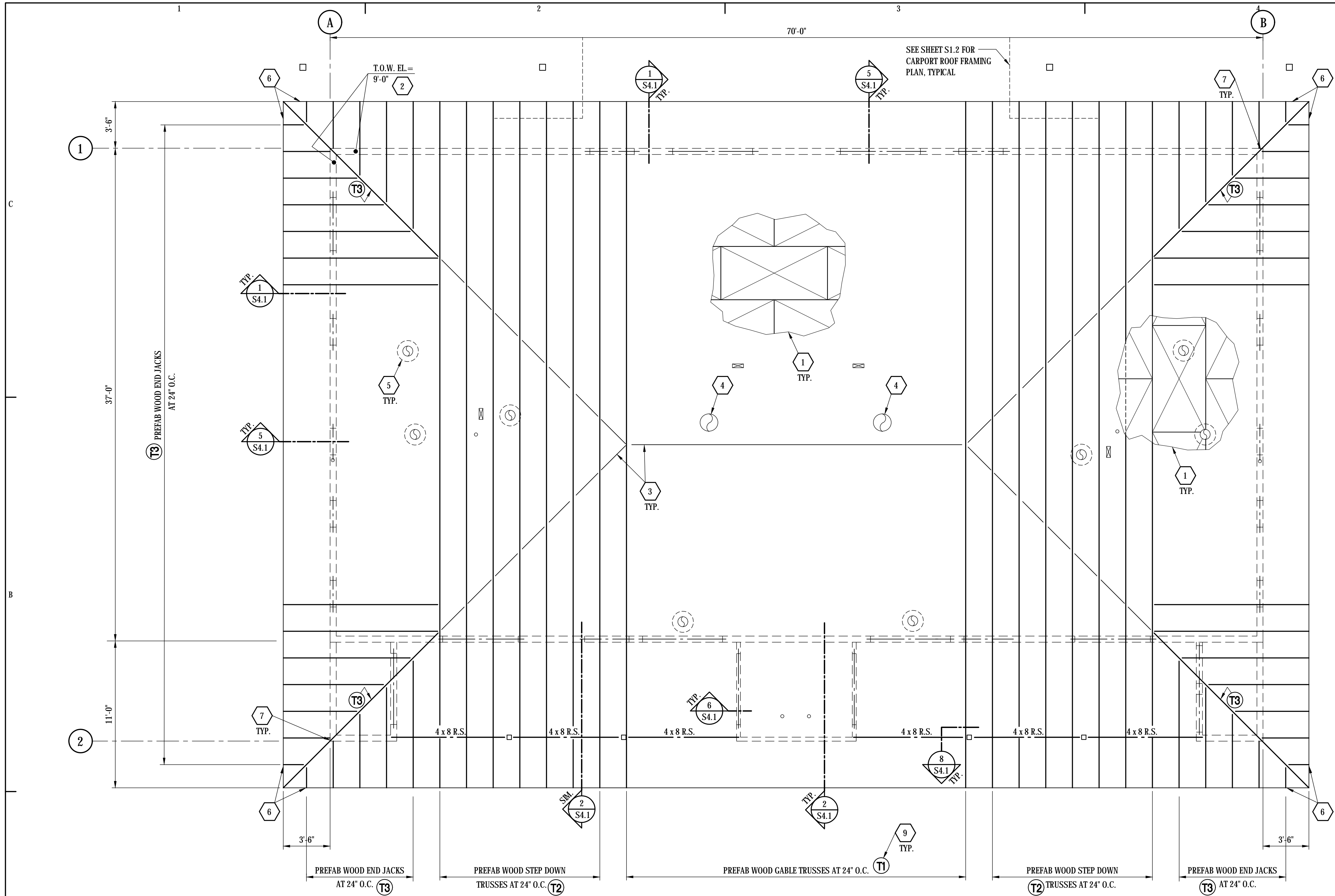
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FOUNDATION DETAILS

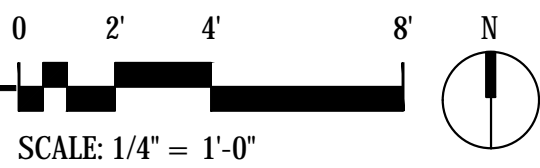
S2.1

Sheet 29 of 48



1 ROOF FRAMING PLAN

- KEYNOTES:**
- 1/2" PLYWOOD SHEATHING (OR OSB) , (PI = 32/16) WITH 8d NAILS AT 6" O.C. ALL SUPPORTED PANEL EDGES, AND 8d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS, TYPICAL.
 - T.O.W. (TOP OF WALL), ELEVATIONS SET RELATIVE TO REFERENCE FINISH FLOOR ELEVATION OF 0'-0".
 - PROVIDE 2x BLOCKING BETWEEN TRUSSES AT ALL RIDGES AND HIPS.
 - SKYLIGHT. SEE ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND LOCATION.
 - TRUSS MANUFACTURER SHALL PROVIDE HEADER/BLOCKING AROUND ALL OPENINGS THROUGH ROOF. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT SIZE AND LOCATION OF ALL ROOF OPENINGS.
 - 2 x 6 FASCIA SHALL BE CONTINUOUS FOR 10'-0" MINIMUM FROM ROOF CORNER EACH SIDE.
 - PROVIDE DOUBLE STUD BELOW ALL GIRDER TRUSS BEARING. AT HIP TRUSS BEARING ON CORNER, CONNECT TRUSS TO DOUBLE TOP PLATE WITH SIMPSON HCP.
 - JACK TRUSSES BEAR ON 2 x 4 STUD WALL FOR EXTENTS SHOWN WITH SIMPSON H2.5T AT EACH TRUSS.
 - SEE SHEET S4.1 FOR TRUSS PROFILES AND TRUSS DESIGN CRITERIA.



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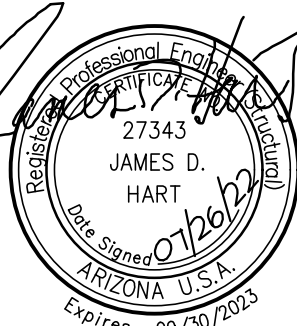
BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Jose Rely B Chico

DATE: FEBRUARY 09, 2023

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**PARKER INDIAN
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**INDIAN HEALTH SERVICE
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PHOENIX AREA**



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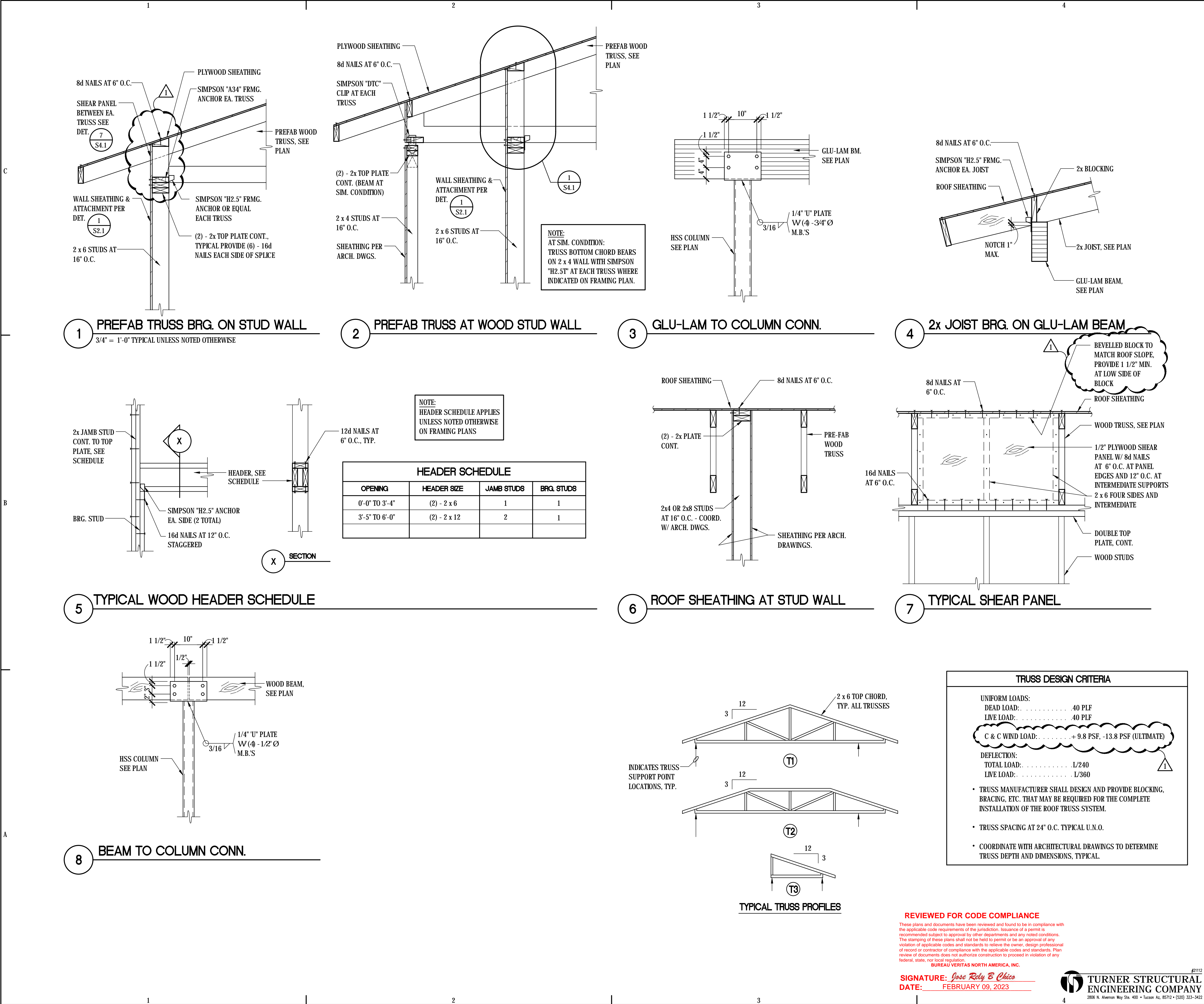
ISSUE:	July 26, 2022	Construction Documents
PROJECT NO:	1818.900	
CAD DWG FILE:	211112	
DRAWN BY:	TBG	
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**ROOF FRAMING
PLAN**

S3.1

Sheet 30 of 48



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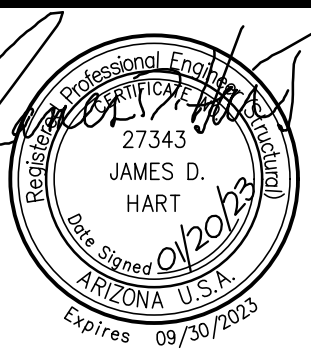
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1	01/20/23	REV. 1 - PERMIT REVISIONS

ISSUE: July 26, 2022 Construction Documents

PROJECT NO: 1818.900

CAD DWG FILE: 21112

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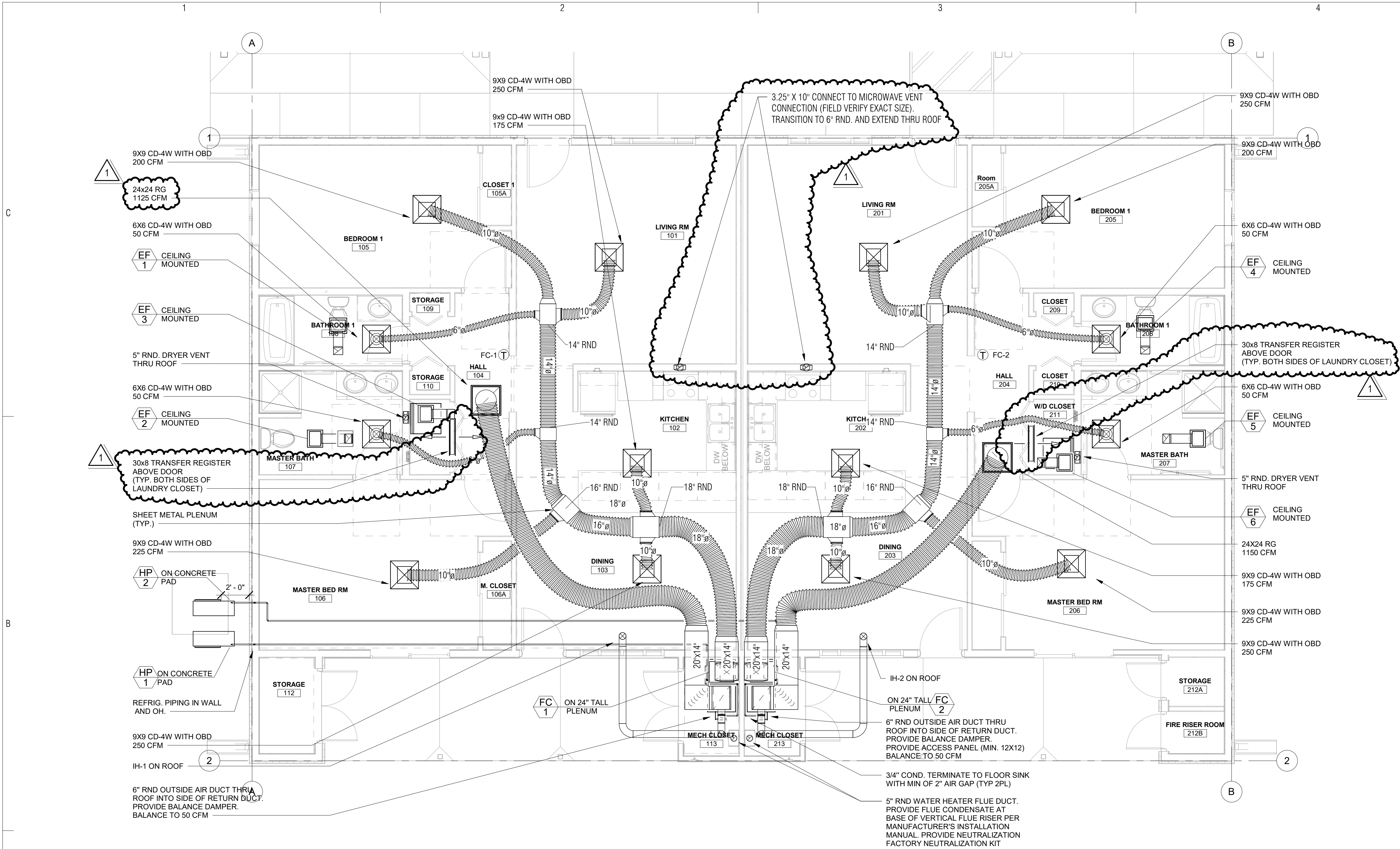
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SHEET TITLE

FRAMING DETAILS

S4.1

SHEET 31 of 48



1 MECHANICAL FLOOR PLAN
M1.1 1/4" = 1'-0"

LEGEND		
CD	-	CEILING SUPPLY DIFFUSER - PRICE MODEL SCD OBD, FRAME FOR HARD CEILING
RG	-	CEILING RETURN GRILLE - PRICE MODEL 530 OBD, FRAME FOR HARD CEILING
TR	-	TRANSFER REGISTER - PRICE MODEL 530, FRAME FOR DRYWALL MOUNTING
EDTR	-	EXHAUST DUCT THROUGH ROOF
VTR	-	VENT THROUGH ROOF
C	-	CONDENSATE PIPING
Ⓡ	-	REFRIGERANT PIPING
Ⓢ	-	THERMOSTAT
Ø	-	FLEXIBLE DUCT

GENERAL NOTES	
•	KITCHEN RANGE HOOD BY ARCHITECT. RESIDENTIAL RANGE HOOD SHALL BE U.L. LISTED AND LABELED AND BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTION
•	REFRIGERANT PIPING TO BE INSTALLED PER MANUFACTURER'S GUIDELINES FOR SIZING, LENGTH OF RUN, AND ELEVATION.
•	UNDERCUT BEDROOM DOOR 1" FOR RETURN AIR
•	ALL EXPOSED REFRIGERANT PIPING SHALL BE INSTALLED IN UV STABILIZED PV COVERS.
•	MAXIMUM FLEX DUCT LENGTH SHALL NOT EXCESS 14'.
•	PROVIDE BALANCE DAMPERS IN THE RETURN AND OUTSIDE AIR DUCTS. PROVIDE CEILING ACCESS PANELS. FIELD COORDINATE EXACT LOCATION OF ACCESS PANELS.

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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bobbet V. La Guardia

DATE: 02/24/2023

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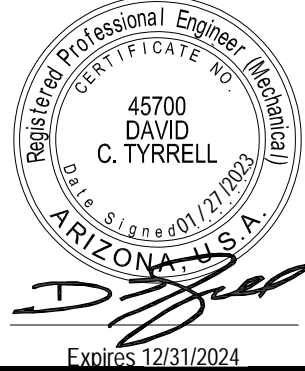
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PARKER INDIAN
HEALTH CENTER
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Parker, AZ
IHS PROJECT NO. PH21CR03Q3

U. S. DEPARTMENT
OF HEALTH AND
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INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



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DPE CHIEF DATE

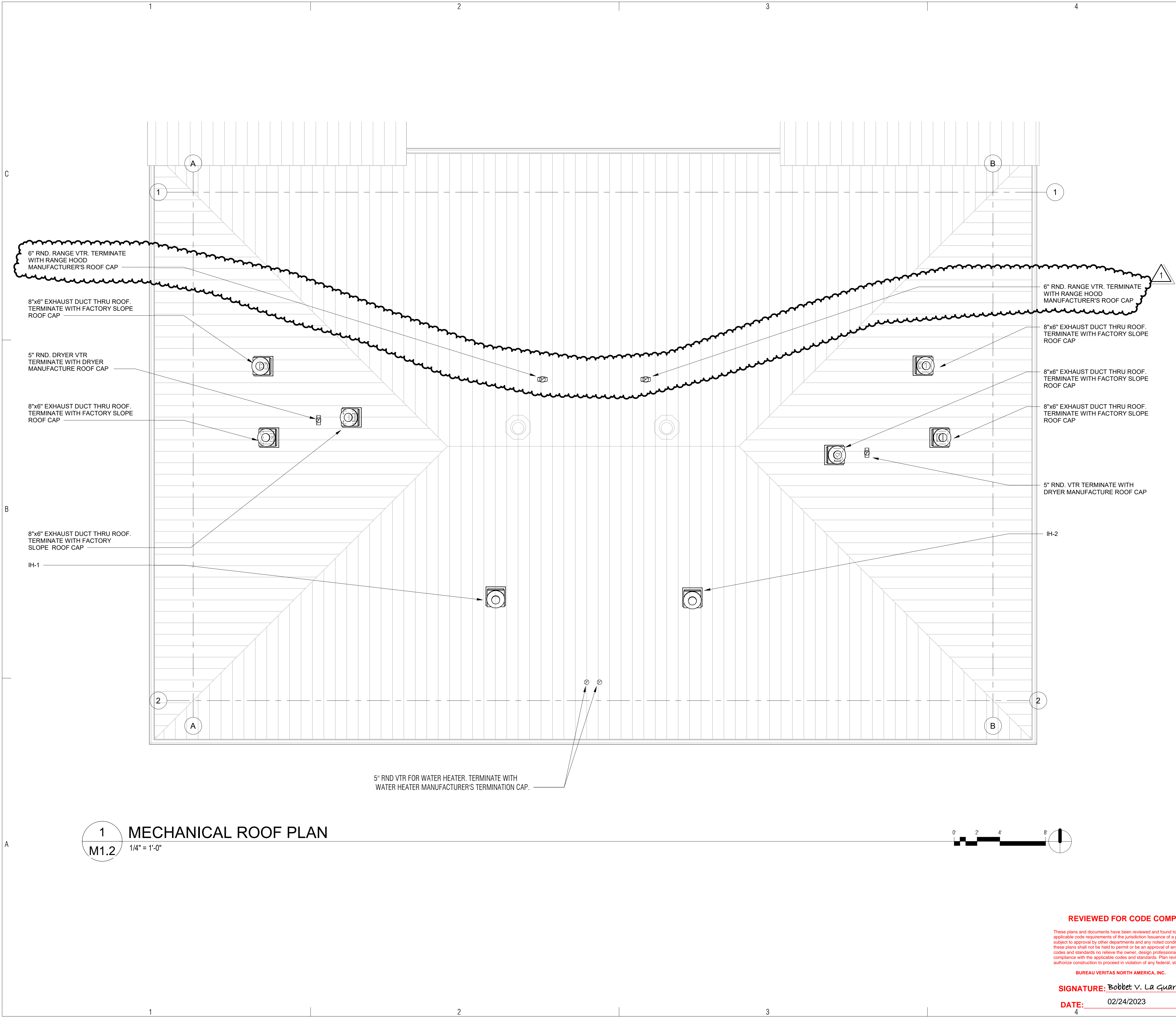
REV	DATE	DESCRIPTION
1	January 20, 2023	Rev 1 - Permit Revisions
ISSUE:	July 26, 2022	- Construction Documents
PROJECT NO:	1818.900	
CAD DWG FILE:		
DRAWN BY:		
CHECKED BY:		

SHEET TITLE

MECHANICAL FLOOR
PLAN

M1.1

Sheet 32 of 48



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**PARKER INDIAN
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Parker, AZ
IHS PROJECT NO. PH21CR03Q3

**U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES**

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
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CONCURRENCE: _____

DFE CHIEF _____ DATE _____

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CAD DWG FILE:		
DRAWN BY: .		
CHECKED BY: .		

SHEET TITLE
MECHANICAL ROOF PLAN

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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bobbet V. La Guardia

DATE: 02/24/2023

M1.2

Sheet 33 of 48

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE																						
OUTDOOR UNIT MARK	INDOOR UNIT MARK	OUTDOOR UNIT MFG.	INDOOR UNIT MFG.	OUTDOOR UNIT MODEL	INDOOR UNIT MODEL	CFM	O.A. CFM	MIN. SEER	COOLING BTUH @ ARI (95/80/67) TOTAL / SENS.	MIN. HSPF	HEATING BTUH @ ARI - 17° F	ELECTRICAL						OUTDOOR UNIT WEIGHT	INDOOR UNIT WEIGHT	REMARKS		
												OUTDOOR UNIT				INDOOR UNIT						
												VOLTAGE	RLA	MCA	MOCP	VOLTAGE	MCA				MOCP	
<div>HP 1</div>	<div>FC 1</div>	DAIKIN	DAIKIN	RZQ36TAVJUA	FTQ36TAVJUA	1200	75	15.30	36,000	-	40,000	208-230/1/60	19	29.1	35	208-230/1/60	4.9	15	255 LBS.	140 LBS.		
<div>HP 2</div>	<div>FC 2</div>	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		

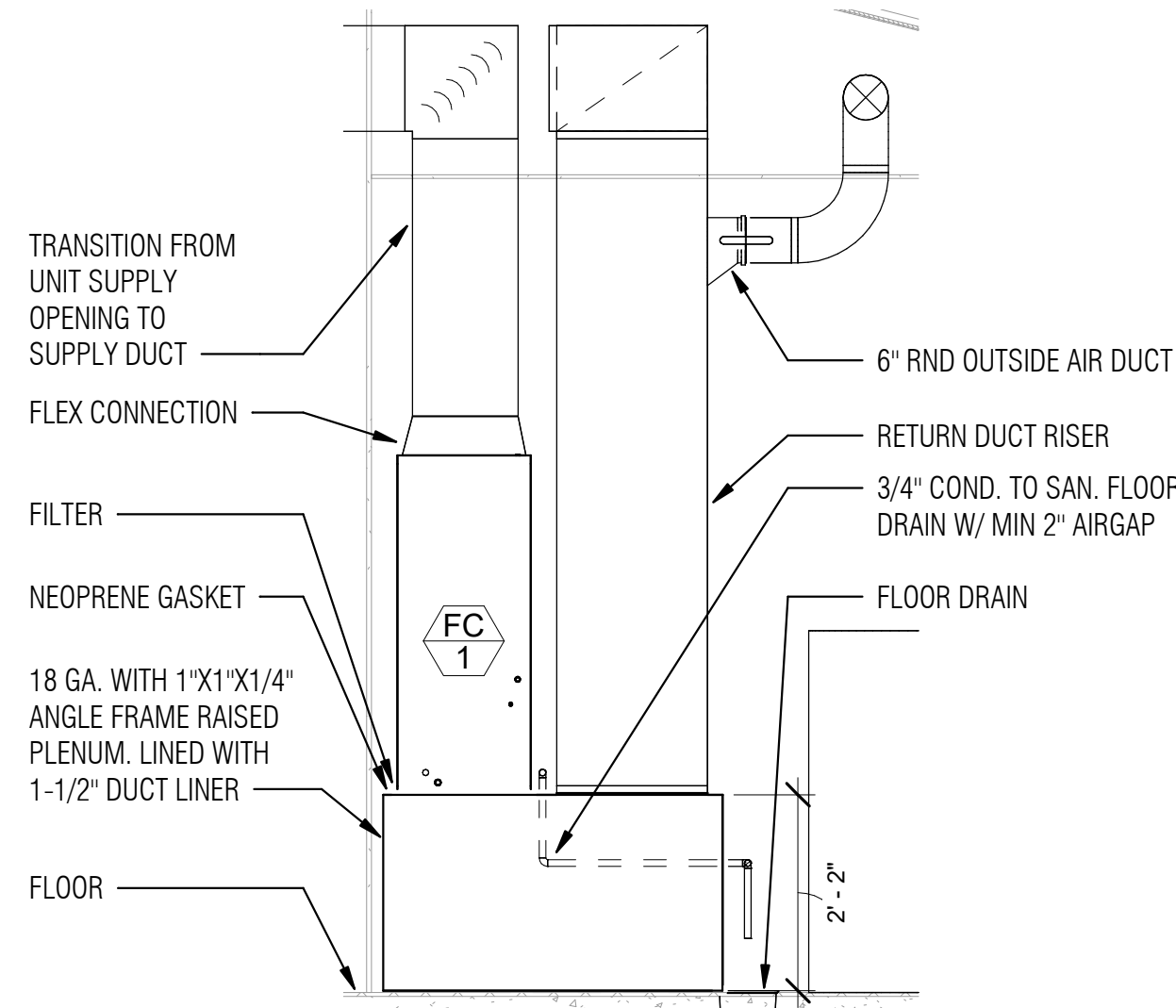
NOTE: - COMPLETE WITH PROGRAMMABLE THERMOSTAT

OUTSIDE AIR CALCULATIONS									
Building: Parker Duplex #1									
System Tag/Name: CU1/FC1									
Operating Condition Description: Units (select from pull-down list)									
Units (select from pull-down list)									
Inputs for System									
Floor area served by system	Name	Units	System	Diversity	System				
Population of area served by system	As	sf	611	100%	6				
Design primary supply fan airflow rate	Vpsd	cfm	675	100%	675				
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	1.10						
OA req'd per person for system area (Weighted average)	Rps	cfm/p	15.3						
Percent increase in Vbz over minimum required									
Does system have Outdoor Air Economizer									
Outdoor air intake provided for system	OA	cfm			No				
Inputs for Potentially Critical zones									
Zone Name	Zone Tag	Zone (like turns purple table for critical zones)							
Occupancy Category									
Floor Area of zone	Az	sf							
Design population of zone	Pz	p							
Design total supply to zone (primary plus local recirculated)	Vzsd	cfm							
Induction Terminal Unit, Dual Fan Duct or Transfer Fan?	Ev								
Zone air distribution effectiveness at conditioned analyzed	Dz								
Percent of total design airflow rate at conditioned analyzed		%	100%	100%	100%				
Air distribution type at conditioned analyzed									
Zone air distribution effectiveness at conditioned analyzed	Ez								
Primary air fraction of supply air at conditioned analyzed	Ep								
Results									
System Ventilation Efficiency	Ev				1.00				
Outdoor air intake required for system	Vor	cfm			68				
Outdoor air per unit floor area	Vor/Az	cfm/sf			0.11				
Outdoor air per person served by system (including diversity)	Vor/Pz	cfm/p			11.0				
Outdoor air as a % of design primary supply air	Ytd	%			10%				

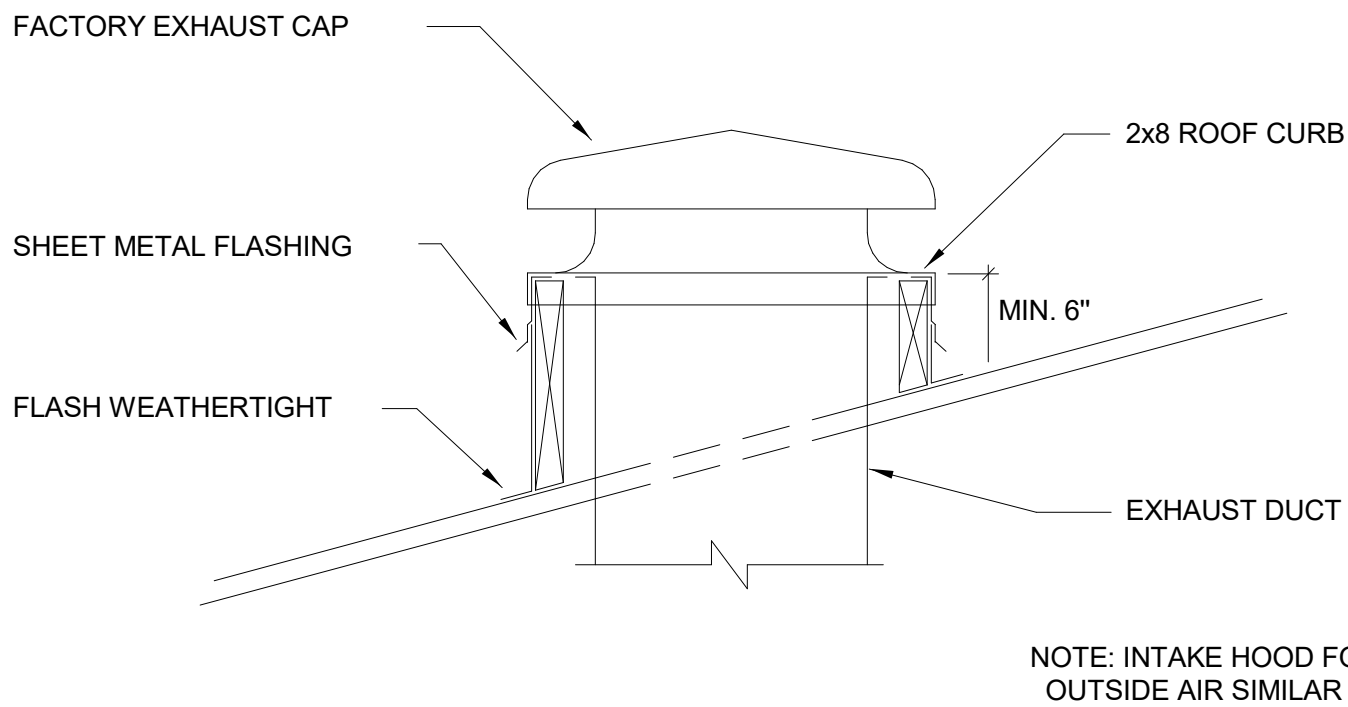
Building: Parker Duplex #2									
System Tag/Name: CU2/FC2									
Operating Condition Description: Units (select from pull-down list)									
Units (select from pull-down list)									
Inputs for System									
Floor area served by system	Name	Units	System	Diversity	System				
Population of area served by system	As	sf	611	100%	6				
Design primary supply fan airflow rate	Vpsd	cfm	675	100%	675				
OA req'd per unit area for system (Weighted average)	Ras	cfm/sf	1.10						
OA req'd per person for system area (Weighted average)	Rps	cfm/p	15.3						
Percent increase in Vbz over minimum required									
Does system have Outdoor Air Economizer									
Outdoor air intake provided for system	OA	cfm			No				
Inputs for Potentially Critical zones									
Zone Name	Zone Tag	Zone (like turns purple table for critical zones)							
Occupancy Category									
Floor Area of zone	Az	sf							
Design population of zone	Pz	p							
Design total supply to zone (primary plus local recirculated)	Vzsd	cfm							
Induction Terminal Unit, Dual Fan Duct or Transfer Fan?	Ev								
Zone air distribution effectiveness at conditioned analyzed	Dz								
Percent of total design airflow rate at conditioned analyzed		%	100%	100%	100%				
Air distribution type at conditioned analyzed									
Zone air distribution effectiveness at conditioned analyzed	Ez								
Primary air fraction of supply air at conditioned analyzed	Ep								
Results									
System Ventilation Efficiency	Ev				1.00				
Outdoor air intake required for system	Vor	cfm			68				
Outdoor air per unit floor area	Vor/Az	cfm/sf			0.11				
Outdoor air per person served by system (including diversity)	Vor/Pz	cfm/p			11.0				
Outdoor air as a % of design primary supply air	Ytd	%			10%				

EXHAUST FAN SCHEDULE											
MARK	MANUFACTURER	TYPE	MODEL	CFM	ESP	MAX. SONES	ELECTRIC		UNIT WEIGHT	REMARKS	
							VOLTAGE	AMPS			
EF 1	BROAN	CEILING MOUNTED DIRECT DRIVE	XB110	110	0.10"	.50	120/1/60	0.3	15 LBS.	FAN TO BE ACTIVATED BY WALL SWITCH - SEE ELECTRICAL DRAWINGS	
EF 2			XB110	110							
EF 3			XB80	80							
EF 4			XB110	110							
EF 5			XB110	110							
EF 6	↓	↓	XB80	80	↓	↓	↓	↓	↓		↓

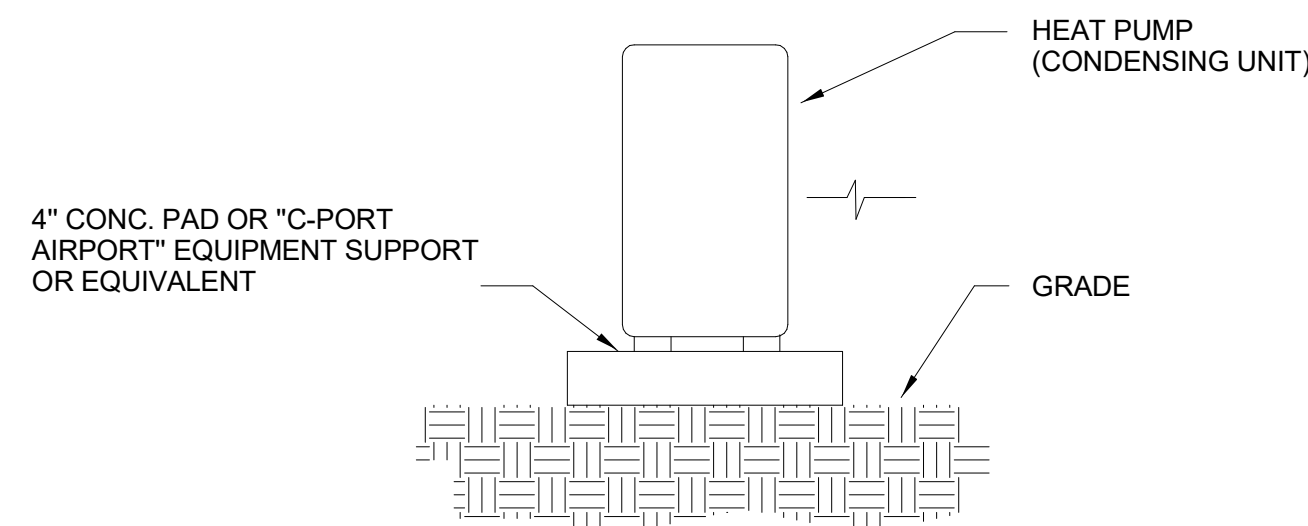
NOTE: UNITS COMPLETE PLUG-IN MOTOR. PROVIDE ROOF CAP WITH BUILT IN DAMPER. UNIT EQUIVALENT: NUTONE, PANASONIC



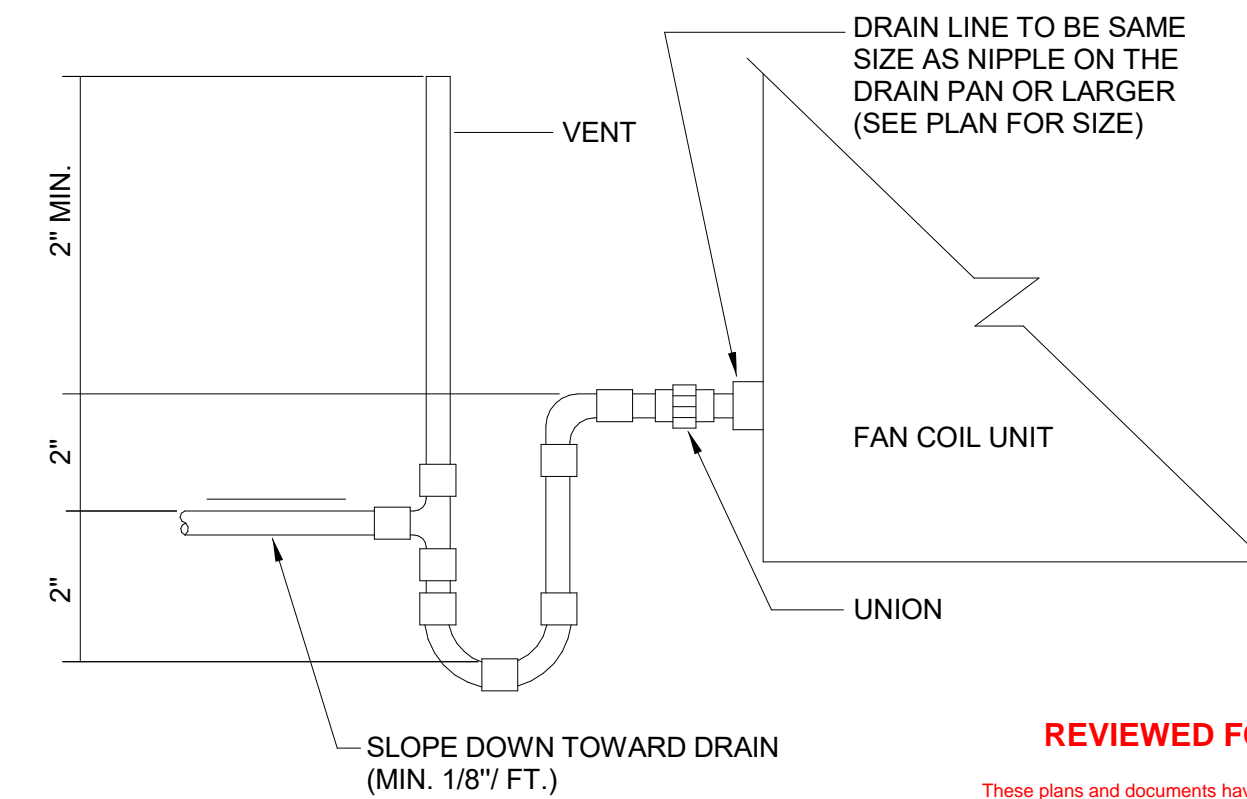
1 TYP. FAN COIL MOUNTING DETAIL
M2.1 1/2" = 1'-0"



4 EXHAUST CAP DETAIL
M2.1 N.T.S.



3 CONDENSING UNIT DETAIL
M2.1 N.T.S.



2 CONDENSATE P-TRAP DETAIL
M2.1 N.T.S.

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BUREAU VERITAS NORTH AMERICA, INC.
SIGNATURE: Bobbet V. La Guardia
DATE: 02/24/2023

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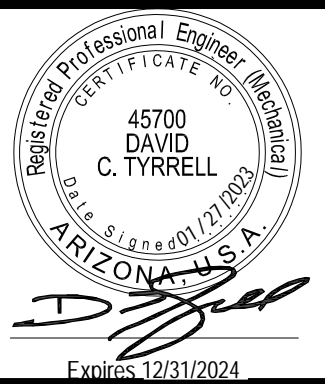
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www.ZonaMEP.com
PROJECT No. 21224

PARKER INDIAN
HEALTH CENTER
DUPLEX DESIGN

Parker, AZ
IHS PROJECT NO. PH21CR03Q3

U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



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DPE ENGINEER/PROJECT MANAGER DATE

APPROVED:

DPE BRANCH CHIEF DATE

CONCURRENCE:

DPE CHIEF DATE

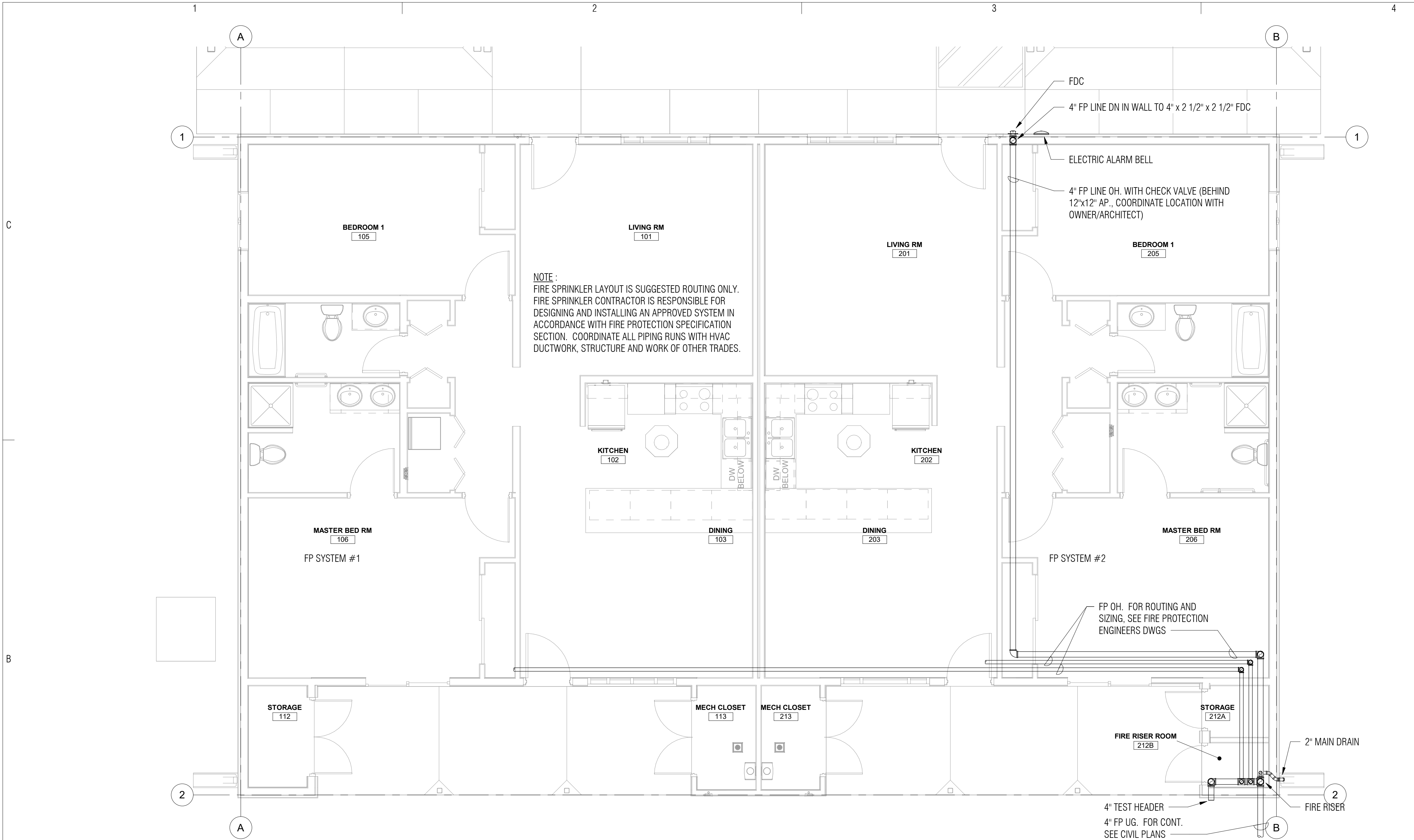
REV	DATE	DESCRIPTION
1	January 20, 2023	Rev 1 - Permit Revisions
ISSUE: July 26, 2022 - Construction Documents		
PROJECT NO: 1818.900		
CAD DWG FILE:		
DRAWN BY:		
CHECKED BY:		

SHEET TITLE

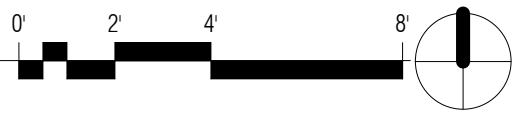
MECHANICAL SCHEDULES
& DETAILS

M2.1

Sheet 34 of 48



1 FIRE PROTECTION FLOOR PLAN
FP1.1 1/4" = 1'-0"



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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bobbet V. La Guardia

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PARKER INDIAN
HEALTH CENTER
DUPLEX DESIGN

Parker, AZ
IHS PROJECT NO. PH21CR03Q3

U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



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CONCURRENCE:

DFE CHIEF DATE

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PROJECT NO: 1818.900

CAD DWG FILE:

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CHECKED BY: AES

SHEET TITLE

FIRE PROTECTION FLOOR
PLAN

FP1.1

Sheet 35 of 48



- | | | | |
|----|---|----|--|
| 1 | F.P. MAIN OH TO FDC | 7 | FLANGE @ 6" A.F.F. |
| 1a | F.P. MAIN OH TO SYSTEM #1. | 8 | SPIGOT PIECE WITH TIE RODS PER NFPA 24 |
| 1b | F.P. MAIN OH TO SYSTEM #2. | 9 | THRUST BLOCK PER NFPA 24 |
| 2 | DOUBLE CHECK VALVE BACKFLOW PREVENTER W/ O.S. & Y VALVES WITH TAMPER SW'S. AMES MODEL # 2000ss (OR EQUIVALENT). | 10 | FIRE MAIN U.G. |
| 3 | FLOW SWITCH | 11 | PRESSURE GAUGE (TYP. 2) |
| 4 | 2" DRAIN MAIN VALVE LOCKED CLOSED (DRAIN TO EXTERIOR) | 12 | BOXED SPARE SPRINKLERS & WRENCH |
| 5 | 4" TEST HEADER WITH MALE HOSE THREADS. BUTTERFLY VALVE AND TAMPER SWITCH FOR SYSTEM DEMAND TESTING | 13 | HYDRAULIC CALC DATA INFO PLATE |
| 6 | INDICATING CONTROL VALVE WITH TAMPER SWITCH (TYP.) | 14 | EXTERIOR BELL. 120 VAC ELECTRIC BELL CONNECTED TO DEDICATED CIRCUIT WITH LOCKOUT BREAKER. COORD. EXACT LOCATION WITH FLOOR PLAN. |

- DESIGN, FURNISH AND INSTALL A COMPLETE, FULLY AUTOMATIC WET-PIPE FIRE SPRINKLER SYSTEM IN ALL AREAS OF NEW CONSTRUCTION AS INDICATED IN THE DRAWINGS. THE WORK SHALL BEGIN AT A POINT 5'-0" OUTSIDE ALSO BE RESPONSIBLE FOR ALL UNDERGROUND PIPING TO THE REMOTE FIRE DEPARTMENT CONNECTION AS INDICATED ON THE ON THE SITE UTILITY PLANS.
2. THE FIRE SPRINKLER SYSTEM SHALL INCLUDE ALL ITEMS OF A MINOR NATURE NECESSARY TO COMPLETE THE INSTALLATION.
3. BEFORE PREPARATION OF SHOP DRAWINGS, THE CONTRACTOR SHALL VERIFY THE WATER FLOW DATA LISTED IN THE DESIGN CRITERIA WITH THE AUTHORITY HAVING JURISDICTION. ANY DISCREPANCY OBSERVED IN WATER PRESSURES SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.
4. THE DESIGN SHALL BE BASED ON HYDRAULIC CALCULATIONS FOR THE HAZARD OCCUPANCIES NOTED ON THE DRAWINGS OR AS DETERMINED BY LOCAL AUTHORITIES. THE HYDRAULIC CALCULATIONS SHALL PROVIDE A MINIMUM OF 5 PSI OR 10 PERCENT (WHICHEVER IS GREATER) "CUSHION" BETWEEN C THE SYSTEM DEMAND AND THE AVAILABLE WATER SUPPLY. IN ADDITION A 5 PSI FIXED PRESSURE LOSS SHALL BE INCLUDED IN THE HYDRAULIC CALCULATIONS AT THE BASE OF THE SPRINKLER RISER FOR A POSSIBLE FUTURE BACKFLOW PREVENTER INSTALLATION.
5. USE THE DRAWINGS FOR REFERENCE ONLY. ANY ITEM SUCH AS COVERAGE OF THE BUILDING, PIPE SIZES, HEAD SPACING AND OTHER REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION SHALL BE INCLUDED, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
6. THE DESIGN OF THE SPRINKLER SYSTEM SHALL COMPLY WITH NFPA-13R, 2019 EDITION, 2021 INTERNATIONAL BUILDING CODE, CHAPTER 9 WITH LOCAL AMENDMENTS, 2021 INTERNATIONAL FIRE CODE WITH LOCAL AMENDMENTS AND THE REQUIREMENTS SPECIFIED HEREINAFTER.
7. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL CODES, LAWS, RULES AND REGULATIONS OF ALL NATIONAL, STATE, COUNTY AND LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO THE STATE FIRE MARSHAL, THE FIRE DEPARTMENT HAVING JURISDICTION, AND THE CARRIER OF THE BUILDING INSURANCE.
8. SECURE AND PAY FOR ALL PERMITS, INSPECTIONS AND CERTIFICATES REQUIRED BY THE FOREGOING AUTHORITIES.
9. SPRINKLER HEAD LOCATIONS SHALL BE COORDINATED WITH LIGHT FIXTURES AND HVAC, UNLESS NOTED OTHERWISE. PRIORITY OF LOCATION IS GIVEN TO LIGHT FIXTURES AND HVAC. CUTTING OF STRUCTURAL MEMBERS FOR THE PASSAGE OF SPRINKLER PIPING OR FOR PIPE HANGER FASTENINGS WILL NOT BE PERMITTED WITHOUT THE ARCHITECTS AND STRUCTURAL ENGINEER'S APPROVAL.
10. FIRE RISER PIPING SHALL BE STEEL, ASTM A-53, GRADE A OR B, A-135 OR A-795, SCHEDULE 40 AND/OR THIN WALL PIPE OF A TYPE APPROVED FOR FIRE SPRINKLER SYSTEMS IN NFPA 13R. OVERHEAD PIPING SHALL BE NEW CORROSION RESISTANT CPVC FIRE SPRINKLER PIPE, LISTED BY UNDERWRITERS LABORATORY FOR WET PIPE SYSTEMS WITH RATED WORKING PRESSURE OF 175 PSI AT 150°F. SEE SECTION 21100 FOR ADDITIONAL REQUIREMENTS.
11. ALL HANGERS, HANGER SPACINGS, SWAY BRACING AND SWAY BRACE SPACING TO MEET REQUIREMENTS OF THE LATEST EDITION OF NFPA-13R.
12. COORDINATE CLOSELY WITH THE FIRE ALARM CONTRACTOR FOR ALL ALARM TIE-INS FOR A FULLY SUPERVISED SYSTEM.
13. BEFORE CONNECTING SPRINKLER SYSTEM TO UNDERGROUND SUPPLY CONNECTIONS, EACH SUPPLY CONNECTION SHALL BE FLUSHED OUT THOROUGHLY IN ACCORDANCE WITH REQUIREMENTS OF NFPA-13R.
14. EACH SYSTEM RISER SHALL BE EQUIPPED WITH ALL NECESSARY EQUIPMENT SUCH AS DRAINS, VALVES, PRESSURE GAUGES, ETC. PROPERLY INSTALLED AND WITH SUITABLE IDENTIFICATION. RISER PRESSURE GAUGES ARE TO BE TAPPED TO THE RISER WITH AT LEAST 6" VERTICAL SEPARATION TO THE MAIN DRAIN AND ARE NOT TO BE INSTALLED ON THE MAIN DRAIN PIPING UNDER ANY CONDITION.
15. SLEEVES ARE TO BE INSTALLED AT ALL PIPES PASSING THROUGH MASONRY FLOORS OR WALLS. INSTALL CHROME FINISHED CEILING AND WALL PLATES

FP LEGEND		
SYMBOL	ABBREVIATION	ITEM
(E)	FP FDC EXIST. UG. OH. DN ABV. BLW. CONN. A.F.G.	FIRE PROTECTION LINE FIRE DEPARTMENT CONNECTION EXISTING UNDERGROUND OVERHEAD DOWN ABOVE BELOW CONNECT ABOVE FINISHED GRADE

TYPE OF SYSTEM:
AUTOMATIC WET-PIPE FIRE SPRINKLER SYSTEM

OCCUPANCY CLASSIFICATION: RESIDENTIAL

INSIDE DWELLING UNIT ----- 0.05 GPM/FT² OR THE SPRINKLER LISTING, WHICHEVER IS GREATER
OUTSIDE DWELLING UNIT ----- FOUR (4) MOST HYDRAULICALLY DEMANDING ADJACENT SPRINKLERS WITH DESIGN DISCHARGE AND DESIGN AREA CRITERIA FOR AREAS PROTECTED BY QUICK-RESPONSE SPRINKLERS PER NFPA-13, 2021 EDITION EXCEPT AS ALLOWED BY SECTION 7.2.3.1, NFPA-13R, 2019 EDITION.

CONSTRUCTION STANDARDS:
NFPA 13R, 2019 EDITION, 2021 INTERNATIONAL BUILDING CODE, CHAPTER 9 & 2021 INTERNATIONAL FIRE CODE.

HYDRANT TEST DATA:
STATIC: ----- 0 PSI
RESIDUAL: ----- 0 PSI
FLOW: ----- 0 GPM

SOURCE:
UNAVAILABLE

AUTHORITIES HAVING JURISDICTION:
PARKER WATER COMPANY AND PARKER FIRE DEPARTMENT

FIRE PROTECTION DATA WAS NOT AVAILABLE AT TIME OF DESIGN. FIRE PROTECTION CONTRACTOR SHALL PROVIDE A CERTIFIED COPY OF THE FIRE FLOW INFORMATION TO THE FIRE PROTECTION ENGINEER, ARCHITECT AND MECHANICAL ENGINEER. CONTRACTOR SHALL PAY FOR ALL FEES AND/OR PERMITS.

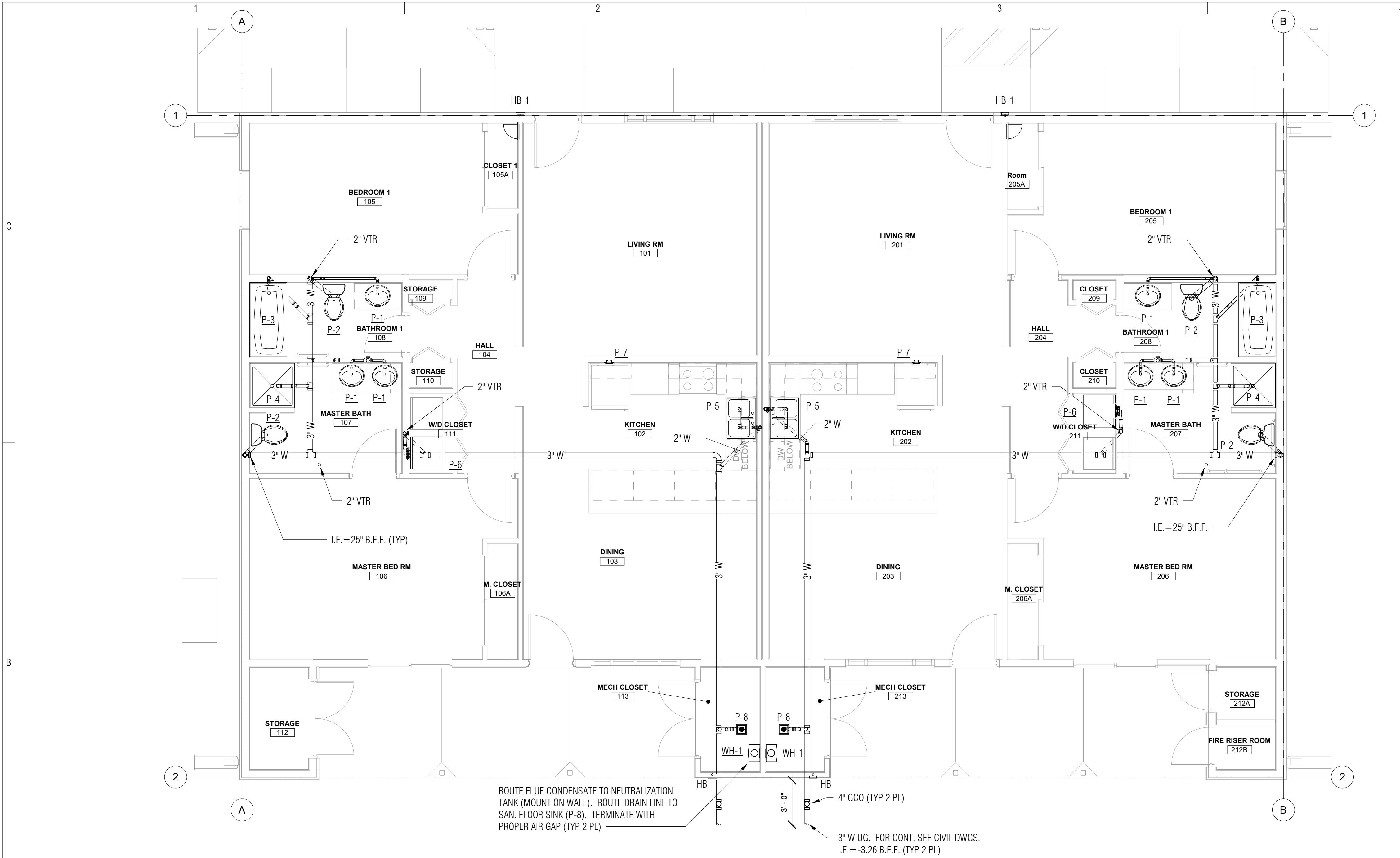
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SIGNATURE: Bobbet V. La Guardia

DATE: 02/24/2023

4

Sheet 36 of 48



1 PLUMBING WASTE FLOOR PLAN
P1.1 1/4" = 1'-0"

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PARKER INDIAN
HEALTH CENTER
DUPLEX DESIGN

Parker, AZ
IHS PROJECT NO. PH21CR03Q3

U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



REVIEWED:

DFE ENGINEER/PROJECT MANAGER DATE

APPROVED:

DFE BRANCH CHIEF DATE

CONCURRENCE:

DFE CHIEF DATE

REV DATE DESCRIPTION

ISSUE: July 26, 2022 - Construction Documents

PROJECT NO: 1818.900

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DRAWN BY: AES

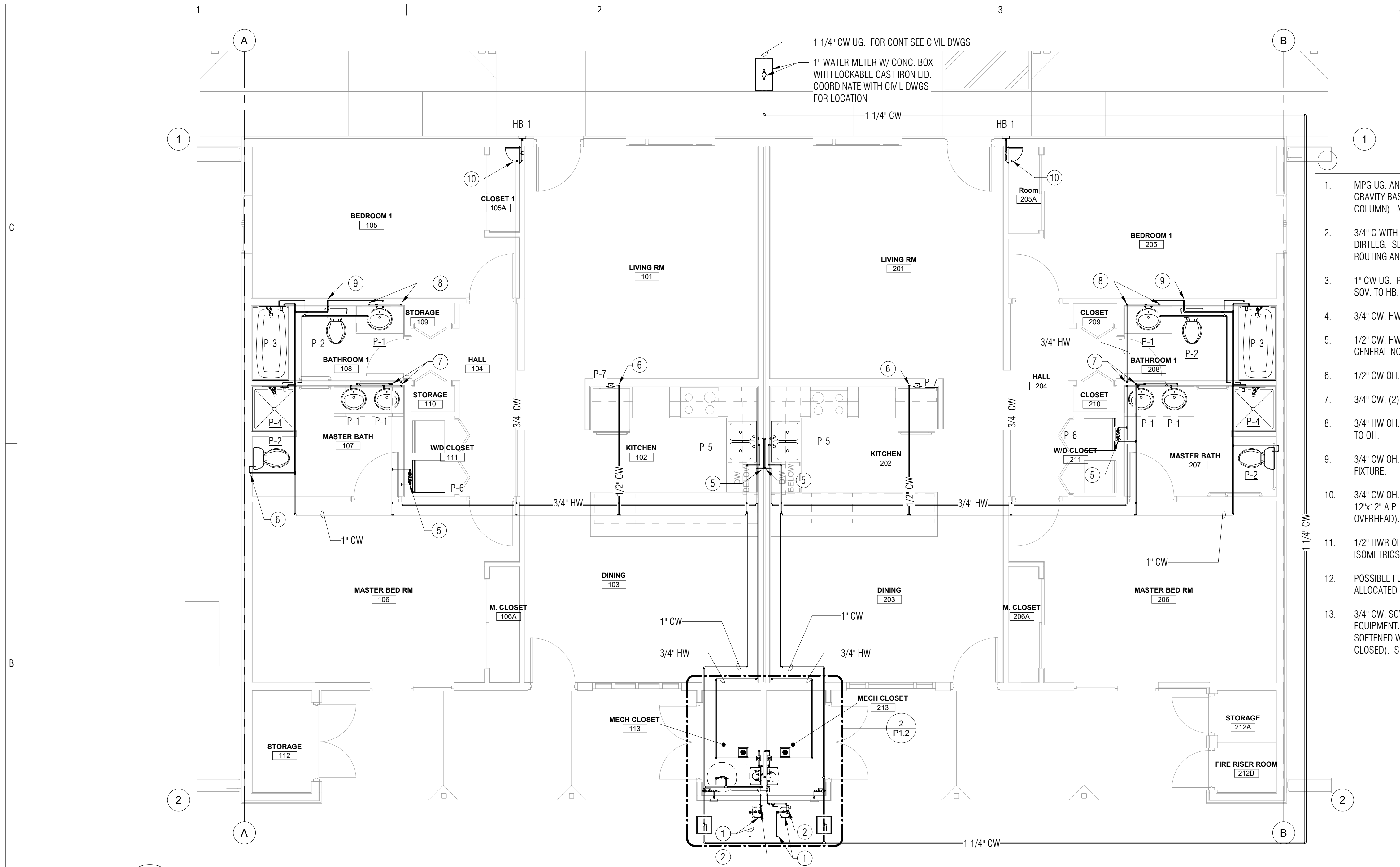
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PLUMBING WASTE FLOOR
PLAN

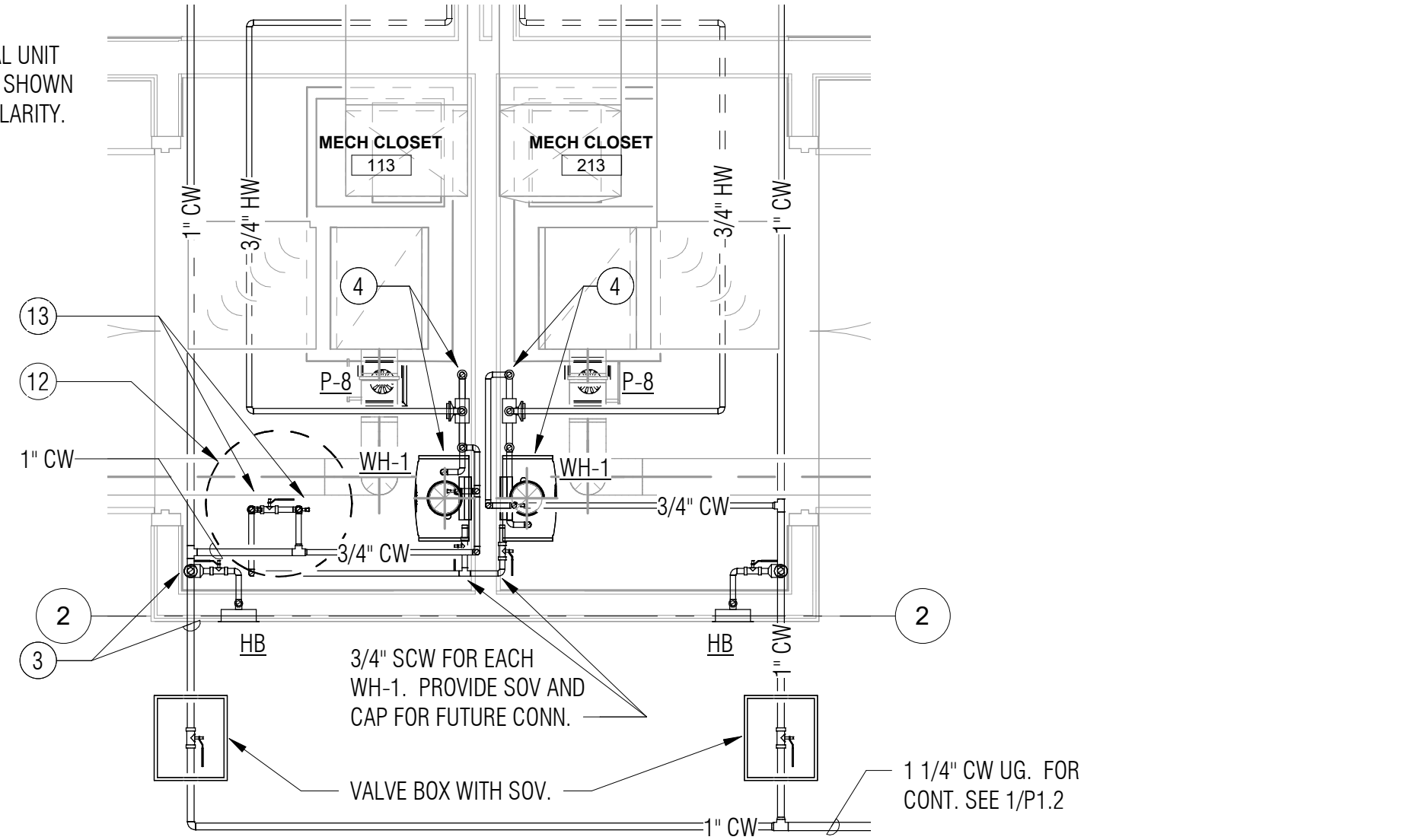
P1.1

Sheet 37 of 48



1
P1.2
1/4" = 1'-0"

NOTE:
MECHANICAL UNIT
AND DUCTS SHOWN
ONLY FOR CLARITY.



2
P1.2
1/2" = 1'-0"

KEYNOTES:

1. MPG UG. AND GAS METER BY SW GAS CO. (.60 SPECIFIC GRAVITY BASED ON A PRESSURE DROP OF 0.5 INCH WATER COLUMN). MAX. DEV. LENGTH=10 FT. MAX. LOAD=360 CFH.
2. 3/4" G WITH GASCOCK, THRU WALL TO WH-1. PROVIDE 4" DIRTLEG. SEE GAS ISOMETRIC FOR ADDITIONAL INFORMATION, ROUTING AND CLARIFICATION.
3. 1" CW UG. ROUTE UP ON WALL TO OH. PROVIDE 3/4" CW WITH SOV. TO HB.
4. 3/4" CW, HW AND 1/2" HWR OH. AND DN TO WH-1 & TMV-1.
5. 1/2" CW, HW OH. AND DN IN WALL TO FIXTURE (SEE PLUMBING GENERAL NOTES FOR DISHWASHER).
6. 1/2" CW OH. AND DN IN WALL TO FIXTURE.
7. 3/4" CW, (2) HW OH. AND DN IN WALL TO FIXTURES.
8. 3/4" HW OH. AND DN IN WALL TO FIXTURE. 3/4" HW UP IN WALL TO OH.
9. 3/4" CW OH. AND DN IN WALL. ROUTE 1/2" CW TO EACH FIXTURE.
10. 3/4" CW OH. AND DN IN WALL TO HB-1. PROVIDE SOV. AND 12"x12" A.P. (IN WALL SHOWN, OWNERS CHOICE FOR OVERHEAD).
11. 1/2" HWR OH. FOR CONT. SEE WATER HEATER DETAIL AND ISOMETRICS.
12. POSSIBLE FUTURE WATER SOFTENING EQUIP. COORD. ALLOCATED SPACE WITH WATER HEATER SPECIFICATION.
13. 3/4" CW, SCW OH. AND DN TO FUTURE WATER SOFTNER EQUIPMENT. PROVIDE SOV.'S FOR CW (NORMALLY OPEN, NON-SOFTENED WATER HEATER SUPPLY) AND SCW (NORMALLY CLOSED). SEE ISOMETRIC FOR CLARITY.

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PARKER INDIAN HEALTH CENTER DUPLEX DESIGN

Parker, AZ
IHS PROJECT NO. PH21CR03Q3

U. S. DEPARTMENT
OF HEALTH AND
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INDIAN HEALTH SERVICE
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REV	DATE	DESCRIPTION
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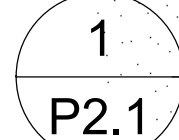
PLUMBING WATER AND GAS FLOOR PLAN

P1.2

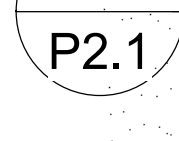
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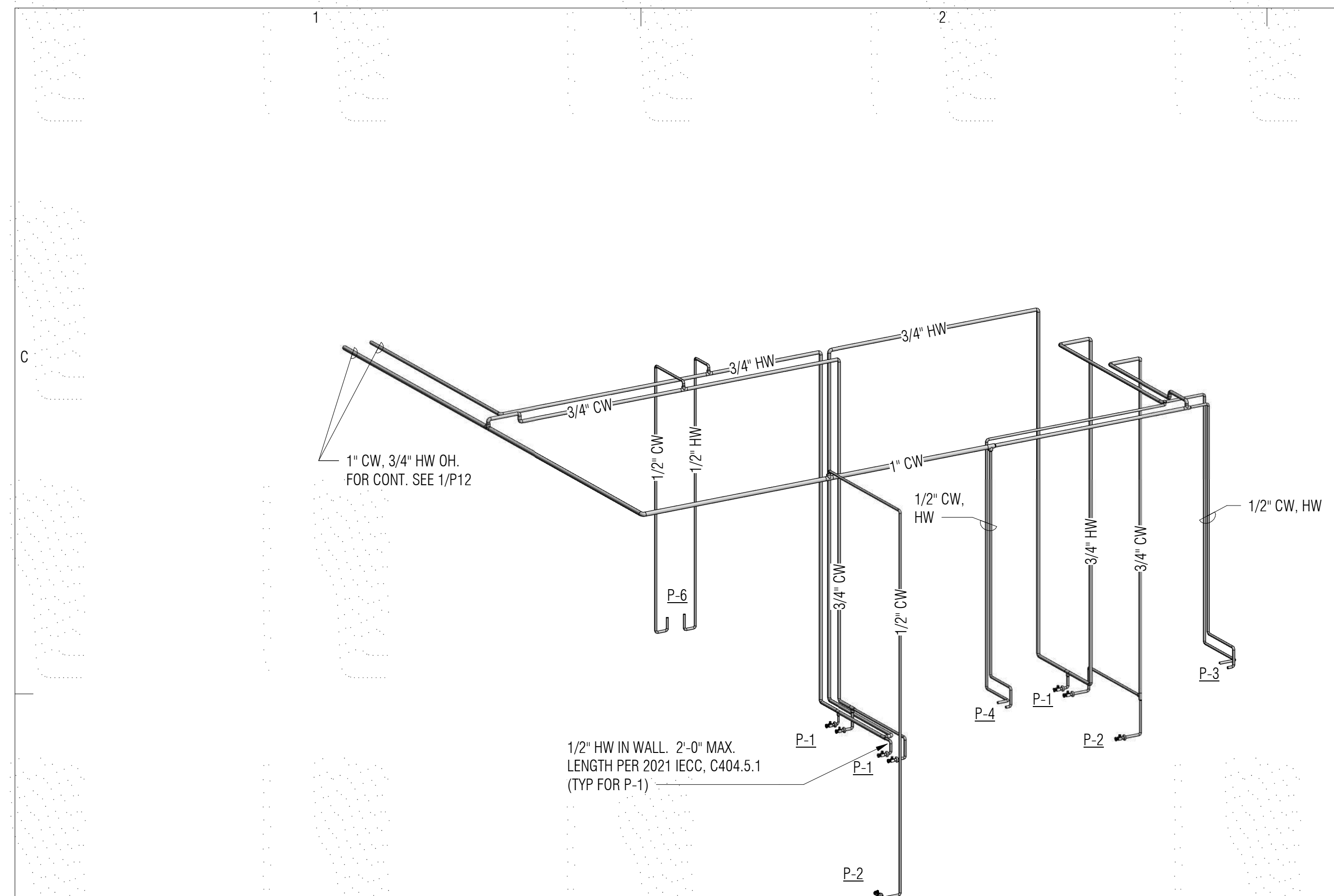


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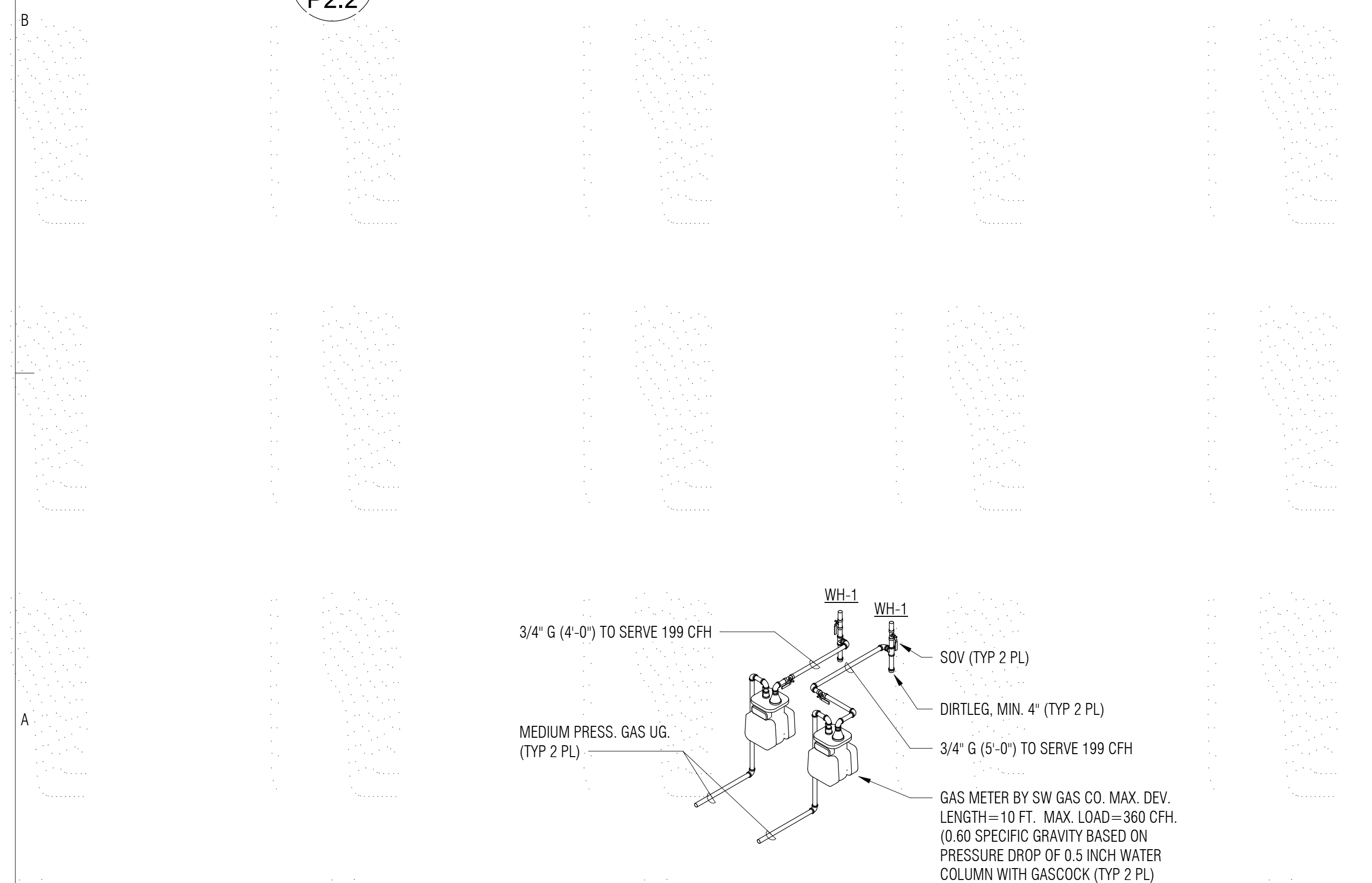


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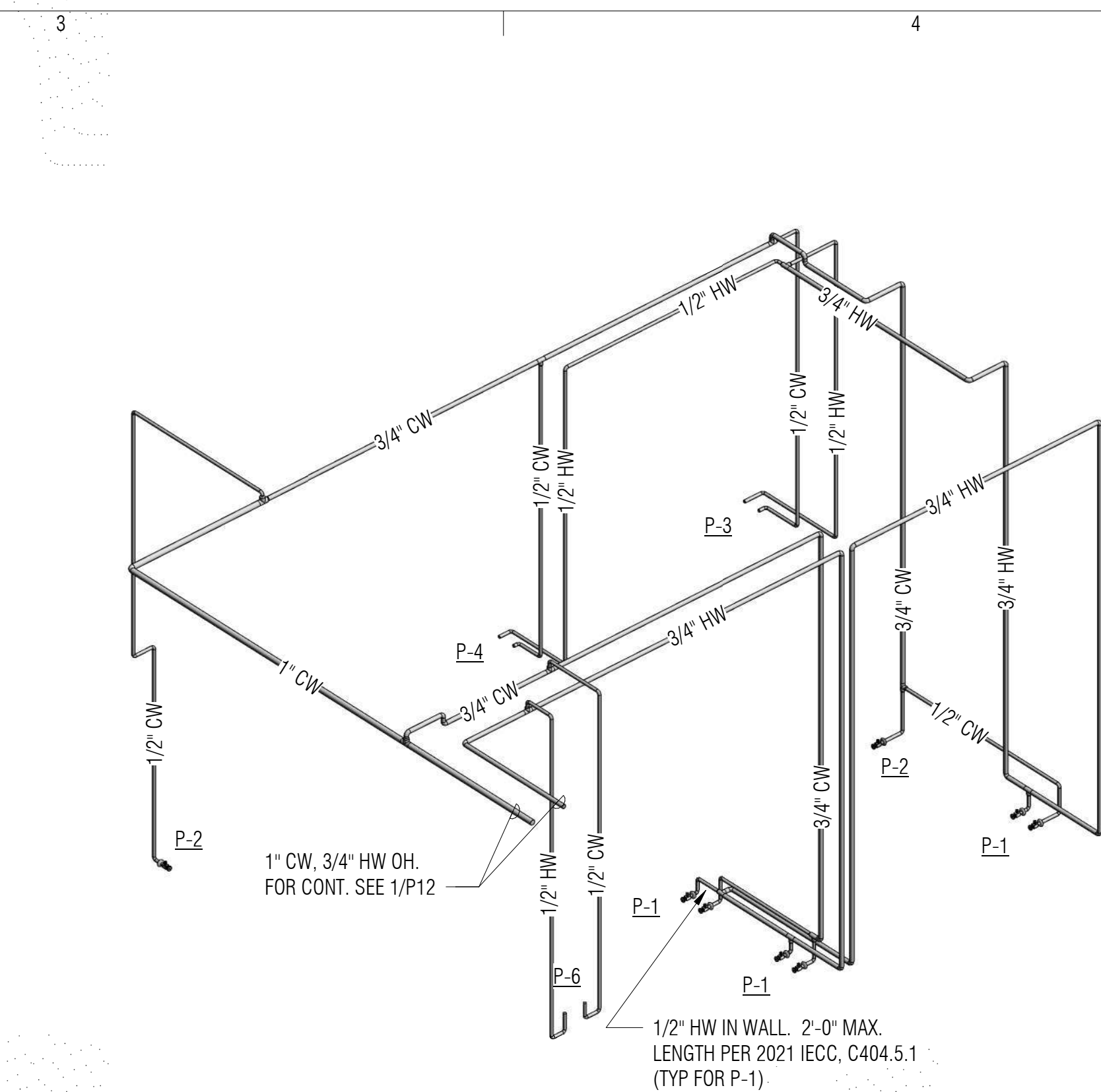
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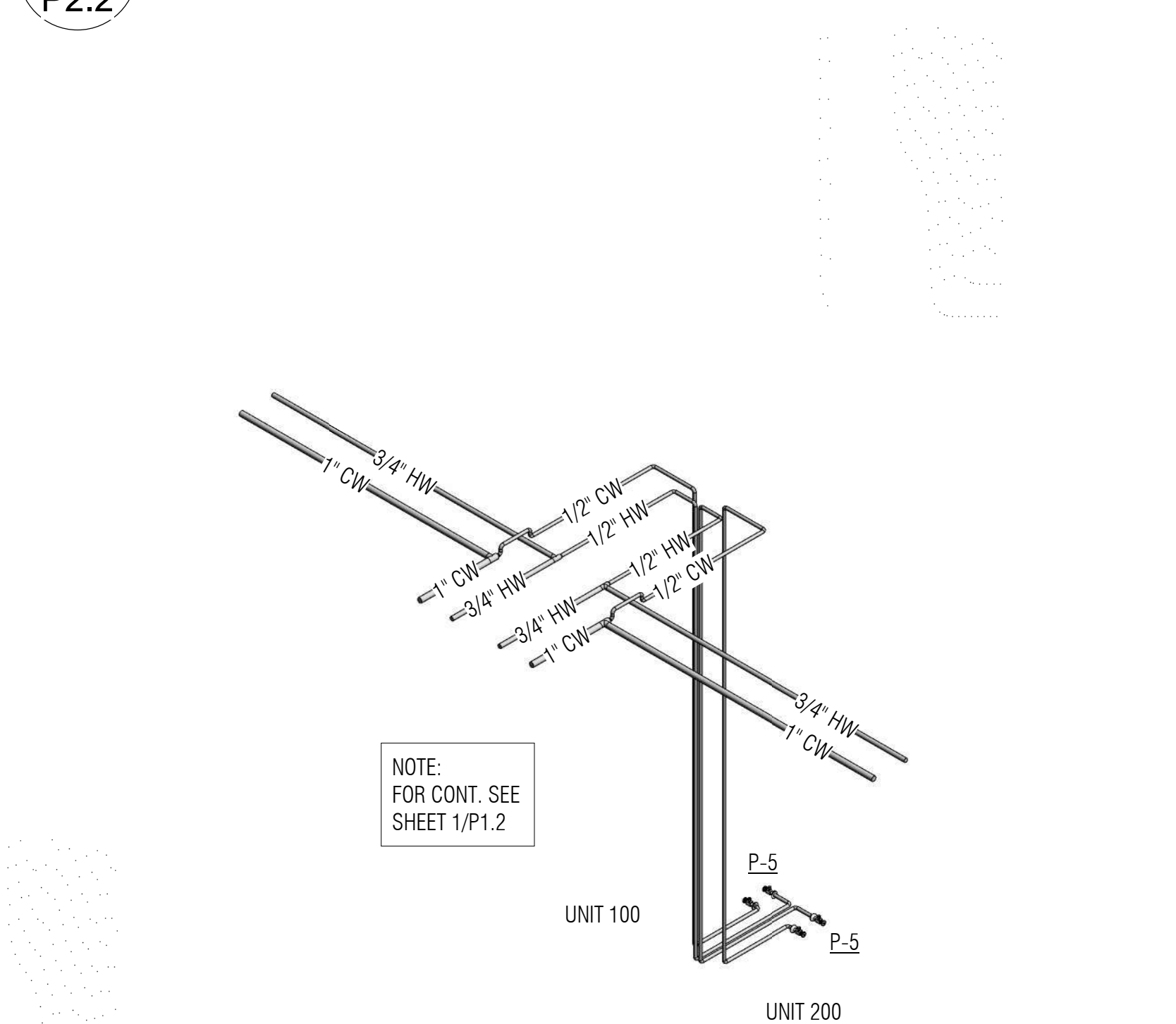
2 WATER ISOMETRIC - UNIT 200



4 GAS ISOMETRIC
P2.2



1 WATER ISOMETRIC - UNIT 100
P2.2



3 WATER ISOMETRIC - KITCHEN

REVIEWED FOR CODE COMPLIANCE

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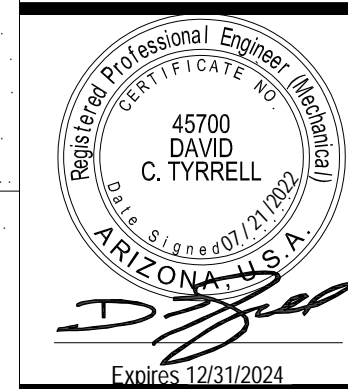
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PARKER INDIAN HEALTH CENTER

DUPLEX DESIGN

Parker, AZ
IHS PROJECT NO.PH21CR03Q3



U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



REVIEWED:

DPE ENGINEER/PROJECT MANAGER DATE

APPROVED:

DFE BRANCH CHIEF _____ DATE _____

CONCURRENCE:

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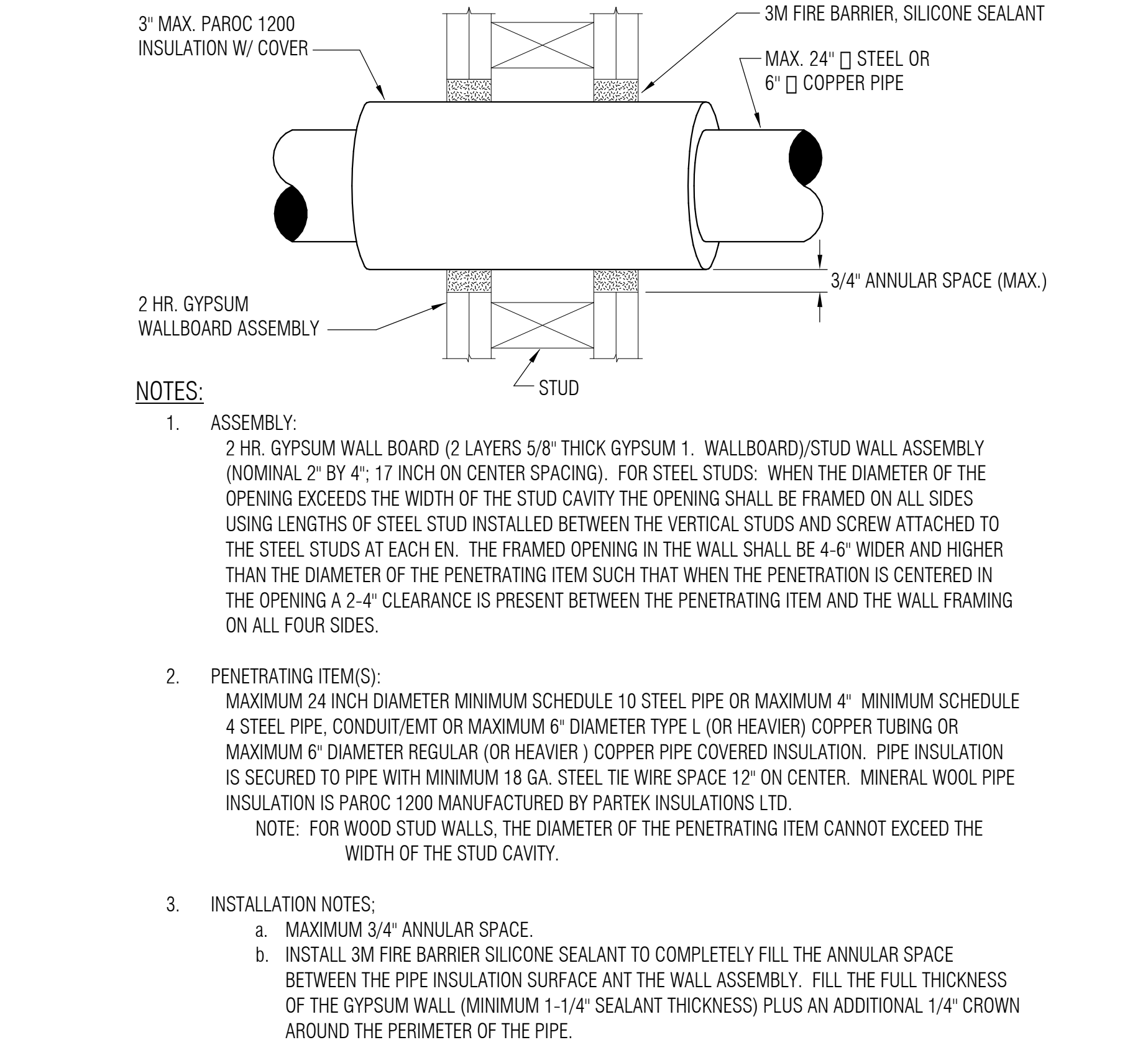
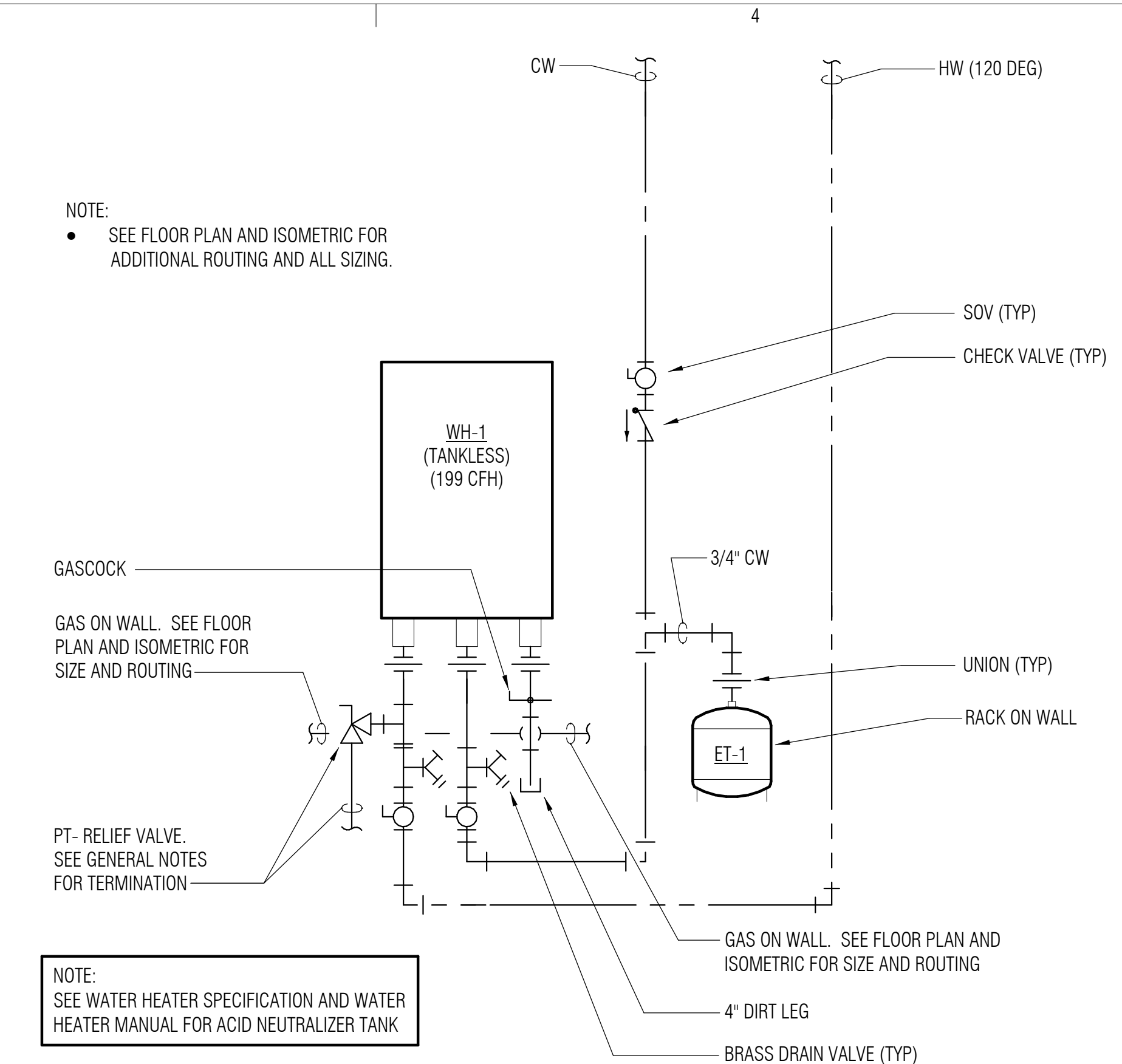
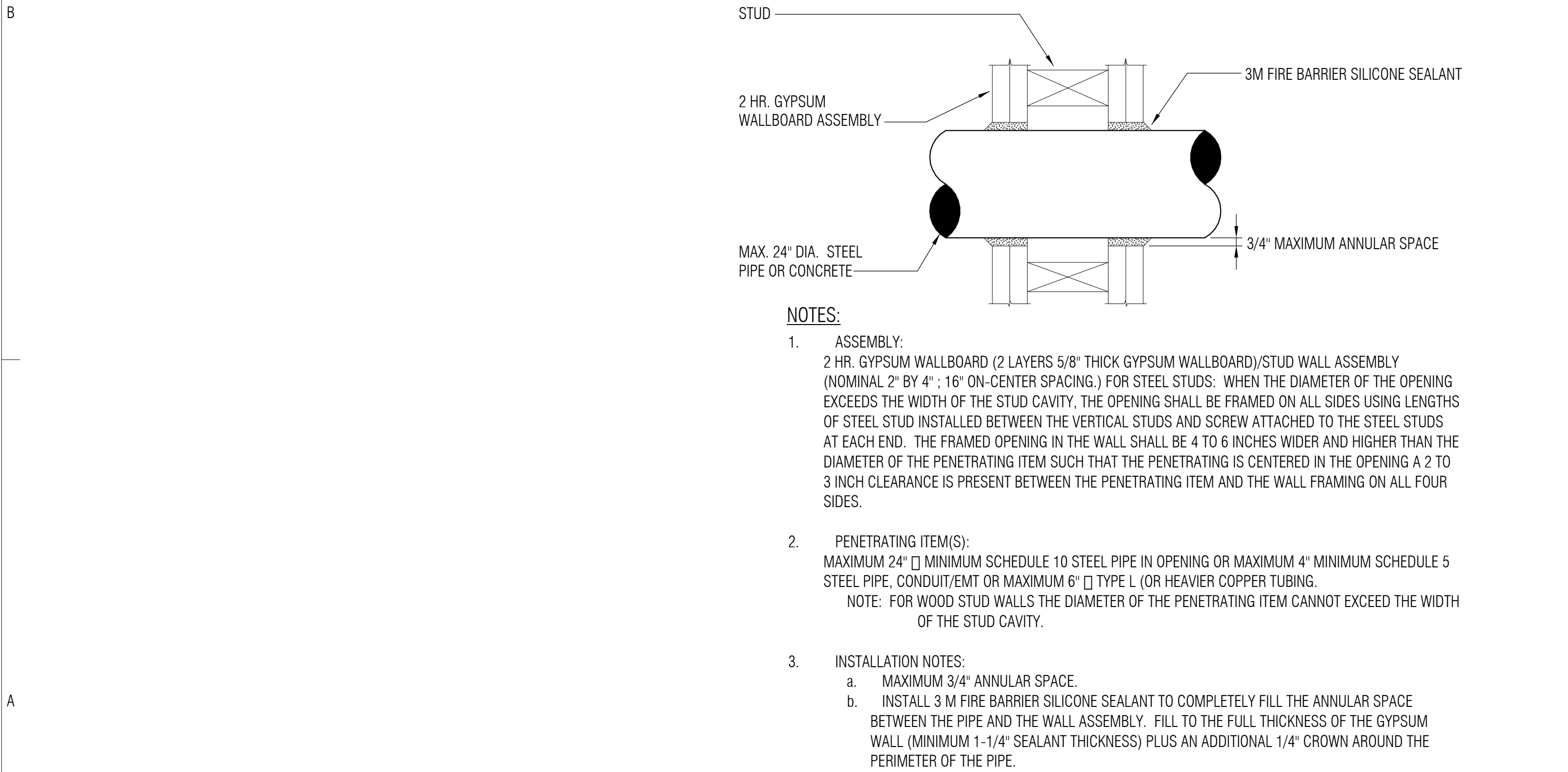
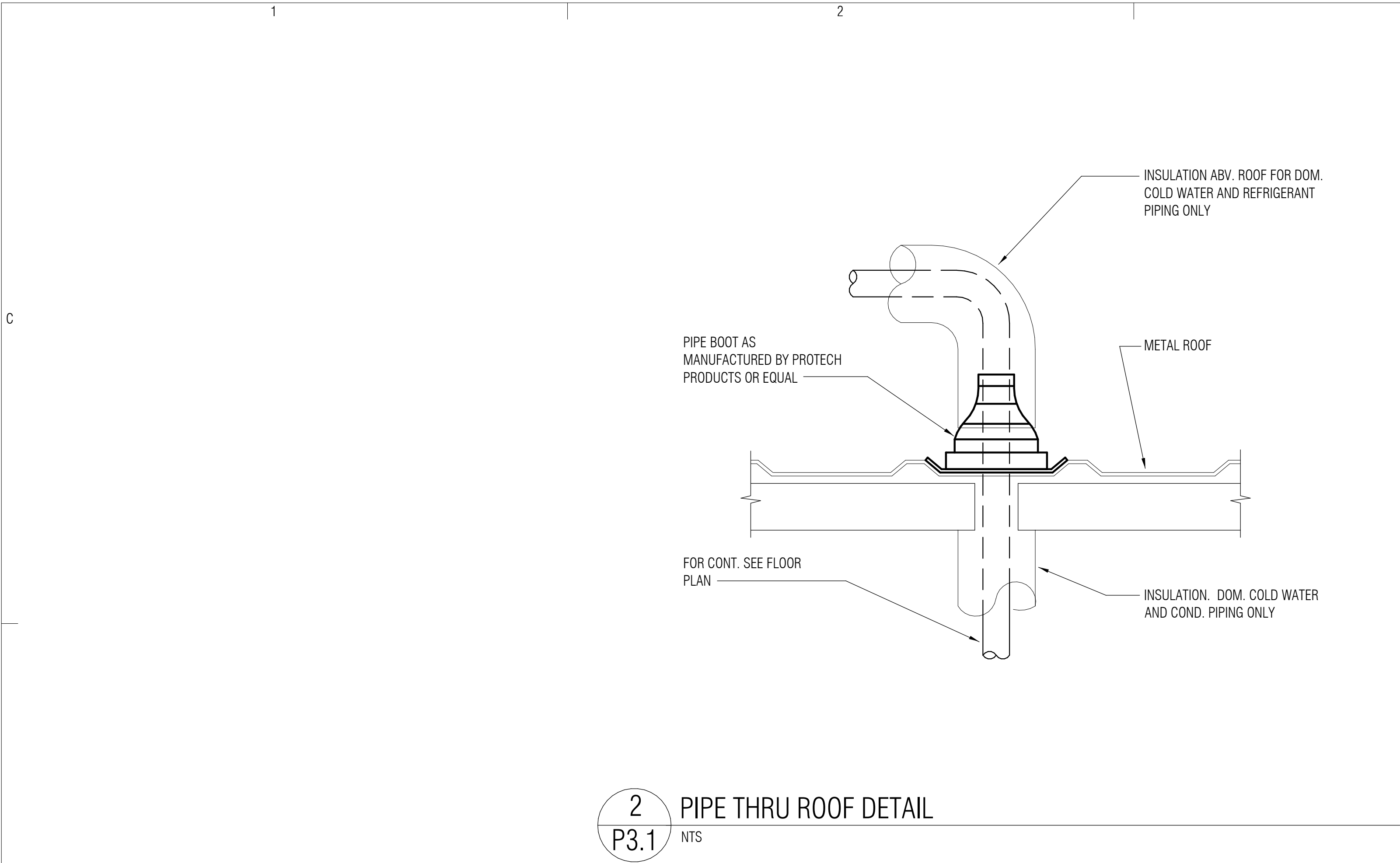
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REV	DATE	DESCRIPTION
ISSUE: July 26, 2022 - Construction Documents		
PROJECT NO: 1818.900		
CAD DWG FILE:		
DRAWN BY: AES		
CHECKED BY: AES		

SHEET TITLE

PLUMBING WATER AND GAS ISOMETRICS

P2.2



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BUREAU VERITAS NORTH AMERICA, INC.

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DATE: 02/24/2023

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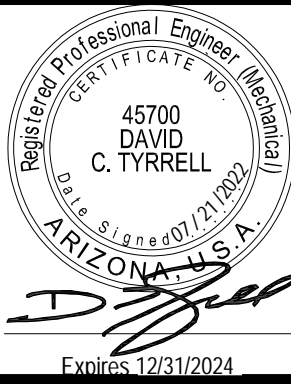
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**PARKER INDIAN
HEALTH CENTER
DUPLEX DESIGN**

Parker, AZ
IHS PROJECT NO. PH21CR03Q3

**U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES**

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



REVIEWED:

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PLUMBING DETAILS

P3.1

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1			2			3					
FIXTURE SCHEDULE											
MARK	FIXTURE DESCRIPTION	QTY	WASTE		WATER		MINIMUM CONNECTION SIZE				COMMENTS
			FU	TOTAL	FU	TOTAL	HW	CW	W	V	
HB -1	HOSE BIBB	1	0	0	2	2	-	3/4"	-	-	WASTE FU:'S ARE CALCULATED PER 2021 IPC, TABLE 709.1 (BATHROOM GROUP, PRIVATE). WATER FU:'S ARE CALCULATED PER 2021 IPC, TABLE E103.3(2) (BATHROOM GROUP, PRIVATE, FLUSH TANK).
P-1	LAVATORY	2	5	10	3.6	7.2	1/2"	1/2"	2"	2"	
P-2	WATER CLOSET (FLUSH TANK)						-	1/2"	4"	2"	
P-3	TUB/SHOWER COMBO						1/2"	1/2"	2"	2"	
P-4	SHOWER						1/2"	1/2"	2"	2"	
P-5	KITCHEN SINK	1	2	2	1.4	1.4	1/2"	1/2"	2"	2"	WASTE FU:'S ARE CALCULATED WITH P-5, PER 2021 IPC, TABLE 709.1.
P-5A	DISHWASHER	1	0	0	1.4	1.4	1/2"	-	-	-	
P-6	CLOTHES WASHER	1	2	2	1.4	1.4	1/2"	1/2"	2"	2"	
P-7	REFRIGERATOR	1	0	0	0.25	0.25	-	1/2"	-	-	
WH-1	WATER HEATER	1	-	0	-	0	3/4"	3/4"	-	-	
PROJECT TOTAL			10			13.65					

WATER CALCULATION
TOTAL FIXTURE UNITS = 13.65 = +/- 17 GPM
WATER PIPE SIZE CRITERIA
15.0 = PRESS. REQUIRED AT FURTHEST FIXTURE
0.81 = PRESS. LOSS/100 FT. OF PIPE IS 2.5 FT. AT A VEL. OF 5 FT/SEC.
2.6 = PRESS. REQUIRED FOR ELEVATION LOSS (0.43 x 6 = 2.58)
2.3 = PRESS. REQUIRED THRU 3/4" WATER METER
20.71 PSI = MINIMUM PRESSURE REQUIRED
DEVELOPED PIPE LENGTH FROM METER TO FURTHEST FIXTURE.
60.0 FT. (1.25) = 75.0 FT
2.5 FT. (.43) = 1.075 PSI/100 FT. OF PIPE
1.075 PSI / 100 FEET (75.0) = 0.81 PSI.
NOTES:
1. PLUMBING CONTRACTOR SHALL FIELD VERIFY AVAILABLE WATER PRESSURE TO PROJECT PRIOR TO THE START CONSTRUCTION. IF THE AVAILABLE WATER PRESSURE IS BELOW 20.7 PSI, NOTIFY THE OWNER/ARCHITECT IN WRITING.
2. IF AVAILABLE WATER PRESSURE EXCEEDS 80 PSI, CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING VALVE WITH ALL BRONZE STRAINER, SET AT 70 PSI. INSTALL WHERE WATER SERVICE PIPE ENTERS THE BUILDING.

PLUMBING LEGEND		
SYMBOL	ABBREVIATION	ITEM
	CW	COLD WATER
	SCW	SOFTENED COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
	W	WASTE PIPING
	V	VENT PIPING
	G	GAS
	FP	FIRE PROTECTION LINE
	D	DRAIN LINE
	VTR	VENT THRU ROOF
	HB	HOSE BIBB
	SOV	SHUT-OFF VALVE (1-TURN BALL VALVE)
		UNION
		CHECK VALVE
		CIRCUIT SETTER
		GAS COCK
	AP	ACCESS PANEL
	POC	POINT OF CONNECTION
	EXIST.	EXISTING
	UG.	UNDERGROUND
	OH.	OVERHEAD
	DN	DOWN
	ABV.	ABOVE
	BLW.	BELOW
	CONN.	CONNECT
	C.I.	CAST IRON
	CLG.	CEILING
	WCO	WALL CLEANOUT
	PT	PRESS./TEMP. RELIEF

PLUMBING GENERAL NOTES
<ul style="list-style-type: none">COORDINATE ALL OVERHEAD PIPING WITH HVAC DUCTWORK AND WORK OF OTHER TRADES.OFFSET ALL NEW AND/OR EXISTING V.T.R.'S TO TERMINATE A MIN. OF 3'-0" FROM ALL VERTICAL SURFACES AND A MIN. OF 10'-0" FROM, OR AT LEAST 3'-0" ABOVE ALL OUTSIDE AIR INTAKES.PLUMBER TO VERIFY EXACT SIZE AND LOCATION OF ALL EXIST. PIPING AND TO VERIFY INVERTS TO ASSURE PROPER SLOPE MAY BE OBTAINED BEFORE BEGINNING WORK.RUN ALL WASTE LINES AT 2% SLOPE UNLESS NOTED OTHERWISE.PROVIDE GASCOCK, UNION, AND A MINIMUM 4" DIRTLEG AT EACH GAS APPLIANCE CONNECTION. INSTALL READILY ACCESSIBLE AND AS CLOSE AS POSSIBLE TO INLET.EXTEND P-T RELIEF (FULL SIZE) ON WALL FROM <u>WH-1</u> TO DAYLIGHT. ELBOW DOWN TO A MIN. 6" AND MAX. 24" ABOVE FINISHED GRADE.COORDINATE LOCATION OF WATER METER, BACKFLOW PREVENTION ASSEMBLY AND PRESSURE REDUCING VALVE (IF REQUIRED) WITH CIVIL SITE DRAWINGS. COORDINATE EXACT SIZES OF WATER METER, BACKFLOW PREVENTION ASSEMBLY AND PRESSURE REDUCING VALVE WITH WATER CALCULATION TABLE ON THIS SHEET.PROVIDE DRAIN CONN. AND 1/2" HW SUPPLY FROM P-5 TO DISHWASHER. INSTALL PER MFG'S RECOMMENDATIONS AND IN ACCORDANCE WITH LOCAL AUTHORITIES AND THE 2018 INTERNATIONAL PLUMBING CODE.BACKWATER VALVE IS (NOT) REQUIRED ON THIS PROJECT. BUILDING FINISHED FLOOR ELEVATION = 403.0' UPSTREAM MANHOLE RIM ELEVATION = 401.93' UPSTREAM MANHOLE INVERT = 398.57' COORDINATE ELEVATIONS WITH CIVIL DRAWINGS. <p>THIS PROJECT SHALL BE IN CODE COMPLIANCE WITH THE 2018 IBC, THE 2018 IECC, THE 2018 IPC AND ALL LOCAL CODE AMENDMENTS.</p>

PLUMBING FIXTURE SPECIFICATIONS		
MARK	FIXTURE	NOMENCALTURE
HB	HOSE BIBB	ENCASED, ANTI-SIPHON, AUTOMATIC DRAINING FLUSH WALL HYDRANT, WITH NON-FREEZE INTEGRAL BACKFLOW PREVENTER, BRONZE CASING, ALL BRONZE INTERIOR PARTS, NON-TURNING OPERATING ROD, AND 3/4" INLET. NICKEL BRONZE BOX AND HINGED COVER WITH OPERATING KEY LOCK AND "WATER" CAST ON COVER.
HB-1	HOSE BIBB	SAME AS HB.
P-1	LAVATORY	BASIN: ADA COMPLIANT, SELF-RIMMING VITREOUS CHINA OVAL LAVATORY WITH WIDE SPREAD FAUCET CENTERS. COORDINATE COLOR/FINISH WITH OWNER AND/OR ARCHITECT. FAUCET, DRAIN & TRAP: TWO HANDLE WIDESPREAD, DECK MOUNTED, WATER MIXING, LAVATORY FAUCET WITH ADA COMPLIANT LEVER HANDLES WITH FAUCET INDICATORS, POP-UP DRAIN AND TAILPIECE. 5 GPM SPRAY AERATOR MODIFICATION. COORDINATE FINISH WITH OWNER AND/OR ARCHITECT. SUPPLIES: MCQUIRE MODEL #2165-LK-R15 FLEXIBLE SUPPLIES. COMPLETE WITH CHROME PLATED BRASS 1/2" I.P.S. X 3/8" OD ANGLE STOPS WITH LOOSE KEY HANDLES AND BRASS STEMS. PROVIDE 15" OPTIONAL RISER. INSULATE HOT AND COLD WATER PIPING AND WASTE PIPING BELOW LAVATORY WITH TRUEBRO #103-K INSULATION KIT.
P-2	WATER CLOSET	VITREOUS CHINA, DUAL FLUSHING SYSTEM, HIGH EFFICIENCY, 1.6 OR 1.1 GALLON PER FLUSH WATER CLOSET, WITH TOILET SEAT AND COVER, FLOOR HARDWARE AND TANK FITTINGS. 12" ROUGH-IN. PROVIDE ANGLE SUPPLY WITH STOP.
P-3	TUB W/ SHOWER	ACRYLIC BATHTUB 60" x 32" x 19" TALL, WITH INTEGRAL LUMBAR SUPPORT, INTEGRAL TILE FLANGE AND INTEGRAL APRON FOR THREE WALL ALCOVE INSTALLATION. PVC SLOTTED OVERFLOW BATH DRAIN WITH TOE TAP BATH DRAIN. SEE SPECIFIC FLOOR PLAN FOR RIGHT OR LEFT HAND INSTALLATION. TUB/SHOWER VALVE: SHALL BE A COMBINATION BALANCED-PRESSURE/THERMOSTATIC MIXING WITH MEANS TO LIMIT MAXIMUM TEMPERATURE SETTING OF 120°. VALVE TO INCLUDE LEVER HANDLE, PUSH BUTTON DIVERTER AND SCREWDRIVER STOPS. PROVIDE MULTI-FUNCTION SHOWER HEAD, ARM AND FLANGE. 2.5 GPM AT 80 PSI. COORDINATE FINISHES WITH OWNER/ARCHITECT.
P-4	SHOWER	ADA COMPLIANT, ONE PIECE, ACRYLIC SHOWER PAN WITH 1/2" BARRIER FREE THRESHOLD WITH PRE-LEVELED AND REINFORCED SHOWER BASE. TEXTURED FLOOR. PROVIDE ANCHORING ADHESIVE KIT, GRAB BARS, FOLDING SEAT, SOAP DISH, CURTAIN AND ROD, T-SHAPED RUBBER WATER STOPPER KIT AND CAULKLESS DRAIN. INTERIOR DIMENSIONS OF 36" x 36". SIMILAR TO FREEDOM SHOWERS, MODEL #APF3838BFPAN. SHOWER VALVE: SAME AS P-3 EXCEPT, PROVIDE MULTI-FUNCTION HAND-HELD SHOWER HEAD, ADJUSTABLE WALL BRACKET AND DIVERTER.
P-5	KITCHEN SINK	20 GAUGE, TYPE 304 STAINLESS STEEL, SELF-RIMMING, DOUBLE COMPARTMENT SINK, (2) 15-3/4" X 14" X 5-3/8" DEEP COMPARTMENTS, FOUR HOLES. FULL UNDERCOATING. PROVIDE TWO DRAIN FITTINGS WITH 1-1/2" CHROME PLATED BRASS TAILPIECE. FAUCET: DECK MOUNTED FAUCET WITH SINGLE LEVER AND AERATOR. 2.2 GPM AT 80 PSI. TRAP AND SUPPLIES: SAME AS P-1, EXCEPT PROVIDE 1-1/2" X 1-1/2" TRAP AND 1-1/2" 17 GAUGE CONTINUOUS WASTE. GARBAGE DISPOSAL: FOOD WASTE DISPOSER, STAINLESS STEEL, 3/4" RUBBER MOUNTING, CONTINUOUS FEED, DUAL DIRECTION WITH 1 HP (1725 RPM) MOTOR WITH BUILT-IN THERMAL OVERLOAD PROTECTION. 120/1/60 10.2 FLA.
P-5A	DISHWASHER, UNDERCOUNTER	SPECIFIED BY OWNER, CONTRACTOR INSTALLED. PROVIDE AND INSTALL DISHWASHER AIRGAP WITH CHROME CAP, SUPPLIES ETC. AND MAKE ALL FINAL CONNECTIONS TO RENDER A COMPLETE AND THOROUGH INSTALLATION.
P-6	CLOTHES WASHER	CLOTHES WASHER SUPPLIED BY OWNER. COORDINATE WASHER TYPE WITH OWNER. PROVIDE AND INSTALL WASHER-BOX (CATCH-A-DRIIP OR EQUIVALENT) WITH 2" STANDPIPE PER DRAWINGS AND WATER HAMMER ARRESTOR OPTION. PROVIDE TRAP, SUPPLIES ETC. AND MAKE ALL FINAL CONNECTIONS TO RENDER A COMPLETE AND THOROUGH INSTALLATION.
P-7	WALL BOX FOR REFRIGERATOR	PRECISION PLUMBING PRODUCTS, MODEL MM-500PIMB, WHITE PLASTIC ICE MAKER BOX W/ WATER HAMMER ARRESTOR, S.O.V. AND 1/4" COMP FITTING.
P-8	SANITARY FLOOR DRAIN	WADE MODEL #W-9143-16, 12" X 12" X 8" CAST IRON SANITARY FLOOR DRAIN WITH PORCELAIN COATED INTERIOR, PLASTIC DOME STRAINER, 3/4 GRADE, NICKEL BRONZE TOP AND 3" OUTLET. (PROVIDE DEEP SEAL TRAP AND "SURESEAL" MODEL #SS3000, IAPMO LISTED, IN-LINE, FLOOR DRAIN TRAP SEALER, OR EQUIVALENT).
WH-1	WATER HEATER	INDOOR INSTANTANEOUS GAS WATER HEATER WITH DIGITAL TEMPERATURE CONTROL SETTINGS TO DELIVER STEADY TEMPERATURE FLOWS, SET AT 110° F. UNIT INCLUDES OR PROVIDE WATER FLOW SENSOR, ELECTRONIC WATER CONTROL AND FIXED BYPASS. ALSO INCLUDES WI-FI REMOTE MONITORING. 199 MAX. GAS LOAD. 97 WATTS, 4 AMPS. INSTALL WATER HEATER WITH BOTTOM OF UNIT TO BE A MINIMUM OF 5'-0" ABOVE FINISHED FLOOR FOR POSSIBLE INSTALLATION OF FUTURE SOFTENER/FILTRATION SYSTEM. ET-1: EXPANSION TANK: EXPANSION TANK WITH PRE-CHARGED AIR CHAMBER, AIR VALVE, HEAVY-DUTY DIAPHRAGM AND POLYPROPYLENE LINER. MAXIMUM CAPACITY = 2.0 GALLONS. PROVIDE ACID NEUTRALIZER TANK/KIT AND SECURE ON WALL A MIN. OF 18" A.F.F. ROUTE ACID NEUTRALIZER DRAIN LINE TO EXTERIOR. PROVIDE PROPER AIR GAP.

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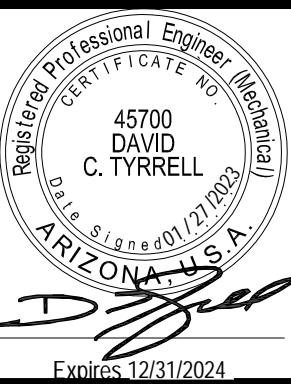
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PARKER INDIAN
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Parker, AZ
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CONCURRENCE:

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1	January 20, 2023	Rev 1 - Permit Revisions
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CHECKED BY: AES		

SHEET TITLE

PLUMBING SCHEDULES,
NOTES AND
SPECIFICATIONS

P4.1

Sheet 42 of 48

ELECTRICAL NOTES:

GENERAL :

1. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, TRANSPORTATION, TOOLS, PERMITS FEES AND INCIDENTALS NECESSARY FOR THE INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM.

2. ALL WORK SHALL BE IN COMPLIANCE WITH THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL CODES AND ORDINANCES.

3. THE CONTRACTOR SHALL FURNISH COPIES OF MANUFACTURER'S LITERATURE AND DRAWINGS DESCRIBING ALL PROPOSED EQUIPMENT AND MATERIALS INDICATED IN THE DRAWINGS AND SPECIFICATIONS ELECTRONICALLY THROUGH THE CLOUD-BASED PROJECT MANAGEMENT SYSTEM. SUBMITTALS SHALL INCLUDE DETAILED SPECIFICATIONS AND CONSTRUCTION DATA. THESE SUBMITTALS SHALL BE IN ACCORDANCE WITH DIVISION 1 SPECIFICATIONS.

4. ALL MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW. THE MANUFACTURER AND CATALOG NUMBERS SPECIFIED HEREIN AND ON THE DRAWINGS ARE TO ESTABLISH DESIGN, STYLE, AND LEVEL OF QUALITY. EQUAL PRODUCTS OF OTHER MANUFACTURERS ARE ACCEPTABLE.

5. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIALS FURNISHED BY HIM FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. ALL WORK FOUND TO BE DEFECTIVE WITHIN THIS PERIOD SHALL BE REPLACED AT NO COST TO THE OWNER. REFER TO DIVISION 1 SPECIFICATIONS FOR ADDITIONAL WARRANTY INFORMATION.

6. THE CONTRACTOR SHALL FURNISH A CLEAN SET OF DRAWINGS ON WHICH VARIATIONS TO THE ORIGINAL CONSTRUCTION DOCUMENTS ARE LEGIBLY RECORDED AND DESIGNATED "AS-BUILT" UPON COMPLETION AND ACCEPTANCE OF WORK.

7. PANELBOARDS, SWITCHBOARDS, DISCONNECTS, STARTERS, ETC. SHALL BE LABELED WITH ENGRAVED NAMEPLATES CONSTRUCTED OF LAMINATED PHENOLIC. LETTERS SHALL BE CONDENSED GOTHIC, 1/4 INCH HIGH. NAMEPLATES SHALL BE FASTENED WITH RIVETS OR SCREWS.

8. THESE DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ALL BOXES, FITTING, ETC. FOR A COMPLETE INSTALLATION, EVEN IF NOT SHOWN ON CONSTRUCTION DOCUMENTS.

BASIC MATERIALS AND METHODS:

1. CONDUIT

A. CONDUITS LOCATED INDOORS IN NON-HAZARDOUS AREAS AND NOT SUBJECT TO PHYSICAL DAMAGE SHALL BE ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION COUPLINGS AND FITTINGS.

B. CONDUITS LOCATED OUTDOORS, OR SUBJECT TO PHYSICAL DAMAGE, SHALL BE RIGID GALVANIZED STEEL (RGS) WITH THREADED COUPLINGS AND FITTINGS.

C. FLEXIBLE METALLIC CONDUIT SHALL BE USED IN DRY LOCATIONS AND LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED IN WET LOCATIONS TO EXTEND CONDUIT CONNECTIONS TO MOTORS. THE LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED 24 INCHES.

D. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, BURIED A MINIMUM OF 24 INCHES BELOW GRADE. CONDUIT RISERS FROM UNDERGROUND CONDUIT RUNS AND UNDERGROUND CONDUIT BENDS SHALL BE RIGID GALVANIZED STEEL. ALL RGS CONDUIT AND FITTINGS LOCATED BELOW GRADE SHALL BE WRAPPED WITH HALF-LAPPED 3M NO. 51 "SCOTCH RAP", OR APPROVED EQUAL, VINYL TAPE.

2. CONDUCTORS

A. ALL CONDUCTORS LOCATED INDOORS SHALL BE TYPE NMC, NONMETALLIC-SHEATHED CABLE, WITH INTEGRAL EQUIPMENT GROUNDING CONDUCTOR.

B. ALL CONDUCTORS LOCATED INDOORS IN CONDUIT SHALL BE COPPER, TYPE THHN/THWN. NUMBER 10 AWG AND BELOW SHALL BE SOLID AND NUMBER 8 AWG AND ABOVE SHALL BE STRANDED.

C. ALL CONDUCTORS LOCATED OUTDOORS OR IN WET LOCATIONS IN CONDUIT SHALL BE COPPER, TYPE XHHW-2.

D. MINIMUM CONDUCTOR SIZE FOR POWER AND LIGHTING CIRCUITS SHALL BE NO. 12 AWG, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. MINIMUM CONDUCTOR SIZE FOR CONTROL AND SIGNAL CIRCUITS SHALL BE NO. 14 AWG, UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

E. CONDUCTORS FOR 120/240 VOLT SYSTEMS SHALL BE COLOR CODED BLACK, RED AND WHITE FOR PHASES A,B AND NEUTRAL RESPECTIVELY.

F. ALL RACEWAYS SHALL CONTAIN AN INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED PER THE NEC.

3. DISCONNECT SWITCHES

A. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE HD.

B. FUSIBLE DISCONNECT SWITCHES SHALL HAVE PROVISIONS FOR CLASS R FUSES.

C. DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED WHERE REQUIRED BY THE DRAWINGS OR CODES.

4. FUSES

A. ALL FUSES SHALL BE BUSSMANN"LOW-PEAK" OR APPROVED EQUAL.

B. FUSES RATED 1/10 TO 800 AMPERES SHALL BE UL CLASS R DUAL ELEMENT CURRENT LIMITING, EQUAL TO BUSSMANN TYPE LPN-RK (250V).

5. WIRING DEVICES

A. LIGHT SWITCHES SHALL BE 20 AMPERES, 120 VOLT, 'DECORA' TYPE SWITCHES.

B. RECEPTACLES SHALL BE TAMPER RESISTANT, 20 AMPERES, 125 VOLTS, SPECIFICATION GRADE, HUBBELL NO. SNAP53621TR OR APPROVED EQUAL.

C. GROUND FAULT RECEPTACLES SHALL BE TAMPER RESISTANT, 20 AMPERES, 125 VOLTS, HUBBELL NO. GFTR20SNAPINA, OR APPROVED EQUAL.

D. COLOR OF SWITCHES, RECEPTACLES AND DEVICE PLATES SHALL BE IVORY (COORDINATE WITH IHS PRIOR TO ORDERING).

E. DEVICE PLATES SHALL BE LEXAN.

F. RECEPTACLES SHALL BE FLUSH MOUNTED 18 INCHES TO BOTTOM OF BOX, ABOVE FINISHED FLOOR, UNLESS OTHERWISE SHOWN, WITH GROUNDING POLE AT TOP.

G. RECEPTACLES ABOVE COUNTERS SHALL BE VERTICALLY MOUNTED AT 44 INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE SHOWN.

H. SWITCHES SHALL BE FLUSH MOUNTED 44 INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.

6. JUNCTION BOXES

A. JUNCTION AND PULL BOXES SHALL BE OF CODE GALVANIZED STEEL.

B. DEVICE BOXES AND GENERAL PURPOSE JUNCTION BOXES SHALL BE ONE PIECE GALVANIZED PRESSED STEEL KNOCK-OUT TYPE WITH SIMILAR COVER, AND NOT LESS THAN 4" SQUARE.

7. LOAD CENTERS

A. LOAD CENTERS SHALL HAVE THE ELECTRICAL RATINGS AS SHOWN ON THE DRAWINGS.

B. LOAD CENTERS SHALL CONTAIN BOLT-ON THERMAL MAGNETIC CIRCUIT BREAKERS. CIRCUIT BREAKERS USED TO SWITCH LIGHTING CIRCUITS SHALL BE 'SWD' RATED AND CIRCUIT BREAKERS FEEDING HEATING AND AIR CONDITIONING EQUIPMENT SHALL BE 'HAGR' RATED.

C. BUS BARS SHALL BE COPPER. NEUTRAL BARS, WHERE SPECIFIED, SHALL BE FULL SIZE.

D. A DIRECTORY FRAME AND CARD HAVING A TRANSPARENT COVER SHALL BE FURNISHED ON EACH DOOR, NEATLY TYPED TO INDICATE LOADS.

ABBREVIATIONS

A	AMPERES	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	M	MOTOR
AFG	ABOVE FINISHED GRADE	MFG	MANUFACTURER
AIC	AMPERES INTERRUPTING CAPACITY	NEC	NATIONAL ELECTRICAL CODE
A	AMPS	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AMP	AMPACITY	(N)	NEW
AC	ALTERNATING CURRENT	N, NEU	NEUTRAL
AWG	AMERICAN WIRE GAUGE	PH	PHASE
#/C	NUMBER OF CONDUCTORS	LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
C	CONDUIT	PVC	POLYVINYL CHLORIDE
(E)	EXISTING	REM	REMARK
EC	EMPTY CONDUIT	RGS	RIGID GALVANIZED STEEL
EWC	ELECTRIC WATER COOLER	SDBC	STRANDED BARE COPPER
FU	FUSE	SHLD.SH	SHIELDED
GFI	GROUND FAULT INTERRUPTER	SN	SOLID NEUTRAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SP	SPARE
GND	GROUND	TEP	TUCSON ELECTRIC POWER
FMC	FLEXIBLE METAL CONDUIT	TYP	TYPICAL
EMT	ELECTRICAL METALLIC TUBING	UL	UNDERWRITER'S LABORATORIES
HP	HORSEPOWER	UPS	UNININTERUPTABLE POWER SOURCE
KW	KILOWATTS	UON	UNLESS OTHERWISE NOTED
KVA	KILOVOLT AMPS	V	VOLTS
MCB	MAIN CIRCUIT BREAKER	W	WATTS
MCP	MOTOR CIRCUIT PROTECTOR	WP	WEATHERPROOF
		XFMR	TRANSFORMER

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SIGNATURE: Bobbet v. La Guardia

DATE: 02/24/2023

SYMBOLS

WIRING LEGEND

	HOME RUN TO PANELBOARD - 'A' - INDICATES PANEL DESIGNATION 1,3,5 - INDICATES CIRCUIT BREAKER NO.
	NEW CONDUIT
	UNDERGROUND CONDUIT
	FLEXIBLE CONDUIT
	CONCEALED CONDUIT - NUMBER OF SLASHES INDICATE NUMBER OF WIRES (WHEN MORE THAN TWO) PROVIDE GROUND WIRE IN ALL CONDUITS (SIZE PER NEC 250.122 UNLESS NOTED OTHERWISE); GROUNDS ARE NOT SHOWN BY SLASHES. SLASHES WHERE SHOWN ARE FOR CONVENIENCE OF THE CONTRACTOR ONLY; PROVIDE NUMBER OF CONDUCTORS AS REQUIRED BY CIRCUIT FUNCTION.
	JUNCTION BOX
	DUPLEX RECEPTACLE OUTLET, NEMA 5-20R, MOUNTED 18" AFF
	DUPLEX RECEPTACLE ABOVE 44" COUNTER, NEMA-20R
	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE 20 AMP FEED THROUGH TYPE
	SPECIAL RECEPTACLE. CONTRACTOR SHALL VERIFY EXACT NEMA CONFIGURATION.
	EXTERNALLY OPERATED FUSED DISCONNECT SWITCH, SIZE, FUSE SIZE, PHASE AND QUANTITY AS INDICATED. '3R' INDICATES NEMA TYPE ENCLOSURE, NO '3R' INDICATES NEMA '1' TYPE ENCLOSURE.

POWER DEVICES

LIGHT FIXTURE DESIGNATION

LETTER INDICATES LIGHT FIXTURES TYPE, 2 INDICATES CIRCUIT NUMBER, a INDICATES SWITCH LOCATION.

LIGHT FIXTURES

	WALL MOUNTED LUMINAIRE
	RECESSED OR PENDANT MOUNTED LUMINAIRE
	STRIP FIXTURE / UNDER CABINET LIGHT

LIGHTING CONTROL

	SINGLE POLE SWITCH, 20 A OR LOW VOLTAGE TYPE, MAX. HEIGHT = 42" TO CENTERLINE OR AS NOTED ON DRAWINGS.
	3 WAY SWITCH
	WALL MOUNTED OCCUPANCY SENSOR SWITCH EQUAL TO SENSOR SWITCH WSD SERIES.

SPECIAL SYSTEM DEVICES

	VOICE/DATA OUTLET. INSTALL SINGLE GANG MUD RING MOUNTED AT +18" (U.O.N) (WIRING BY OTHERS)
	TELEVISION OUTLET. INSTALL SINGLE GANG MUD RING MOUNTED AT +18" (U.O.N) (WIRING BY OTHERS)

FIRE ALARM DEVICES

	SMOKE & CARBON MONOXIDE ALARM, BRK SERIES #SC9120B. PROVIDE INTERCONNECT WIRING BETWEEN SMOKE ALARMS AS REQUIRED.
	COMBINATION SMOKE & CARBON MONOXIDE ALARM/STROBE LIGHT, BRK SERIES #7030BSL. PROVIDE INTERCONNECT WIRING BETWEEN SMOKE ALARMS AS REQUIRED.
	FLOW SWITCH
	TAMPER SWITCH
	RISER BELL
	STROBE LIGHT, BRK SERIES #SLED177. PROVIDE INTERCONNECT WIRING BETWEEN SMOKE & CARBON MONOXIDE ALARMS/STROBES AS REQUIRED.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION/ MANUFACTURER	VOLT	LAMPS	MOUNTING	FINISH	MAX VA	REMARKS
L2	18" LED UNDER CABINET LITHONIA LIGHTING UCLD-18IN-30K-90CRI-BN	120V	LED	UNDER CABINET	BRUSHED NICKEL	12.5 VA	
L3	24" LED STRIP LIGHT LITHONIA LIGHTING CLX-L24-2000LM-SEF-FDL-MVOLT-GZ10-40K-90CRI	120V	LED	SURFACE	STANDARD	34 VA	
R1	3" LED RECESSED CAN CONTECH LIGHTING LVR3164C 10M-CTR301WHT	120V	LED	RECESSED	WHITE	10 VA	• PROVIDE IC RATED
R2	4" LED RECESSED CAN CONTECH LIGHTING R4IC-3-30K-MVD-C4322W-CLR	120V	LED	RECESSED	CLEAR	20 VA	• PROVIDE IC RATED
R4	4" LED WET LOCATION RECESSED CAN CONTECH LIGHTING R4IC-3-30K-MVD-C4327-WHT-CLR	120V	LED	RECESSED	WHITE	20 VA	• PROVIDE IC RATED • PROVIDE WET LOCATION LISTED
R5	DECORATIVE LED FIXTURE SEA GULL LIGHTING 77282EN-962	120V	(2)-10W A19 MEDIUM BASE 2700K LED BULB	PENDANT	STANDARD	20 VA	
W1	LED WALL PACK LITHONIA LIGHTING OLWX1LED-13W-40K-PE	120V	LED	WALL	DARK BRONZE	14 VA	• PROVIDE INTEGRAL PHOTO CELL
W2	WALL MOUNTED LED LITHONIA LIGHTING FMV/CCL-24IN-MVOLT-35K-90CRI-BN	120V	LED	WALL	BRUSHED NICKEL	26 VA	
	CEILING FAN WITH LED LIGHT HUNTER SENTINEL #59157	120V	LED	CEILING	BRUSHED NICKEL	62 VA	• INSTALL REMOTE CONTROL PER MANUF. REQUIREMENTS
NOTES: 1. FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTION OF LIGHTING FIXTURES AND MANUFACTURERS CATALOG NUMBERS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE CORRECT CEILING CONFIGURATION AND PROVIDE THE FIXTURES WITH ALL NECESSARY TRIMS AND MOUNTING HARDWARE SO THAT BOTH THE CEILING SYSTEM AND THE FIXTURE CONSTRUCTION MATCH. 2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY EXACT LOCATIONS OF ALL LIGHTING FIXTURES AND TYPE OF CEILING WITH THE ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ANY WORK. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR MOUNTING HEIGHTS OF WALL MOUNTED FIXTURES. 3. NOT LESS THAN 90 PERCENT OF THE PERMANENTLY INSTALLED LIGHTING FIXTURE SHALL CONTAIN ONLY HIGH-EFFICACY LAMPS (IECC SECTION R404)							

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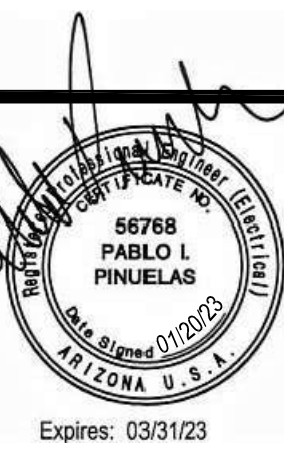
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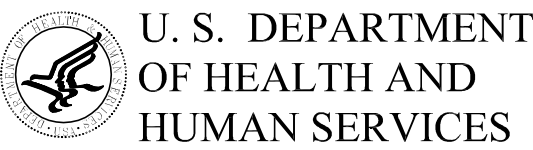
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PARKER INDIAN HEALTH CENTER

DUPLEX DESIGN

Parker, AZ
IHS PROJECT NO. PH21CR03Q3



INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



REVIEWED:

DPE ENGINEER/PROJECT MANAGER DATE

APPROVED:

DPE BRANCH CHIEF DATE

CONCURRENCE:

DPE CHIEF DATE

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REV DATE DESCRIPTION

ISSUE: July 26, 2022 - Construction Documents

PROJECT NO: 1818.900

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ELECTRICAL NOTES, SYMBOLS, FIXTURE SCHEDULE

E001

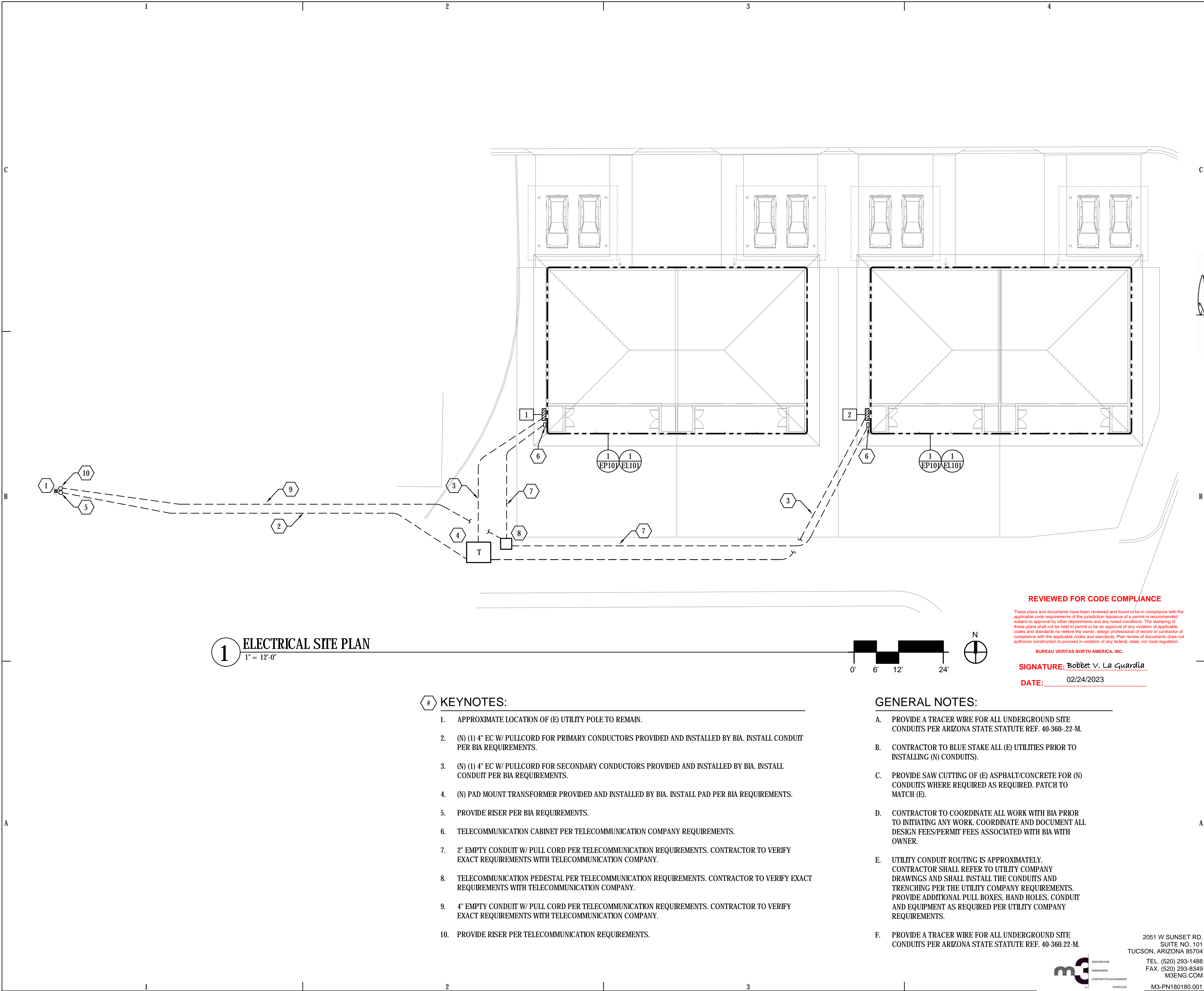
Sheet 43 of 48

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**PARKER INDIAN
HEALTH CENTER
DUPLEX DESIGN**

Parker, AZ
IHS PROJECT NO. PH21CR03Q3

 **U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES**

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



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ELECTRICAL SITE PLAN

ES101

Sheet 44 of 48

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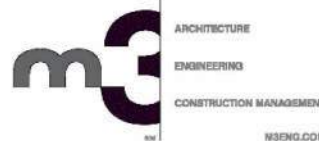
SIGNATURE: *Bobbet V. La Guardia*

DATE: 02/24/2023

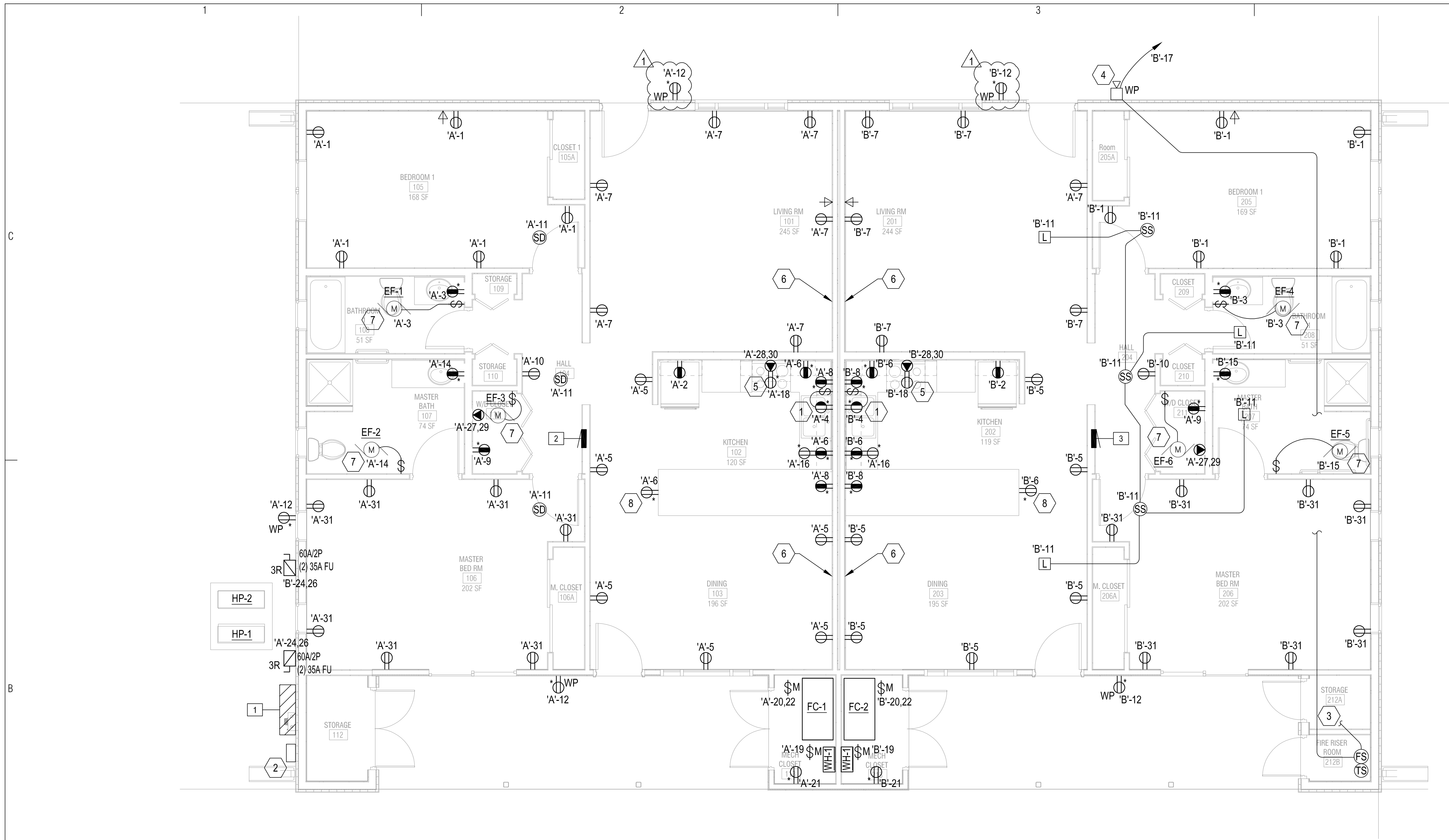
GENERAL NOTES:

- PROVIDE A TRACER WIRE FOR ALL UNDERGROUND SITE CONDUITS PER ARIZONA STATE STATUTE REF. 40-360-.22-M.
- CONTRACTOR TO BLUE STAKE ALL (E) UTILITIES PRIOR TO INSTALLING (N) CONDUITS).
- PROVIDE SAW CUTTING OF (E) ASPHALT/CONCRETE FOR (N) CONDUITS WHERE REQUIRED AS REQUIRED. PATCH TO MATCH (E).
- CONTRACTOR TO COORDINATE ALL WORK WITH BIA PRIOR TO INITIATING ANY WORK. COORDINATE AND DOCUMENT ALL DESIGN FEES/PERMIT FEES ASSOCIATED WITH BIA WITH OWNER.
- UTILITY CONDUIT ROUTING IS APPROXIMATELY. CONTRACTOR SHALL REFER TO UTILITY COMPANY DRAWINGS AND SHALL INSTALL THE CONDUITS AND TRENCHING PER THE UTILITY COMPANY REQUIREMENTS. PROVIDE ADDITIONAL PULL BOXES, HAND HOLES, CONDUIT AND EQUIPMENT AS REQUIRED PER UTILITY COMPANY REQUIREMENTS.
- PROVIDE A TRACER WIRE FOR ALL UNDERGROUND SITE CONDUITS PER ARIZONA STATE STATUTE REF. 40-360.22-M.

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1 POWER & SPECIAL SYSTEMS PLAN

1/4" = 1'-0"

KEYNOTES:

1. SPLIT WIRE RECEPTACLE LOCATED UNDER CABINET FOR CONNECTION OF GARBAGE DISPOSAL. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
2. TELECOMMUNICATION CABINET PER TELECOMMUNICATION COMPANY REQUIREMENTS.
3. 3/4" EC TO MONITOR PANEL BY FIRE PROTECTION CONTRACTOR. COORDINATE EXACT LOCATION WITH IHS.
4. 10" WEATHERPROOF FIRE ALARM SIGNALING BELL, EST340-10NS (120V AC) OR APPROVED EQUAL.
5. DEVICE FOR CONNECTION OF MICROWAVE. COORDINATE EXACT MOUNTING WITH ARCHITECT PRIOR TO ROUGH-IN.
6. ALL DEVICES IN FIRE WALL SHALL BE PROVIDED WITH 1 HOUR FIRE RATED ASSEMBLY BACK BOXES.
7. EXHAUST FAN PROVIDED WITH INTEGRAL PLUG-IN DISCONNECT, AND THERMAL OVERLOAD.
8. RECEPTACLE SHALL BE MOUNTED WITHIN 12" BELOW OF COUNTERTOP SURFACE.

GENERAL NOTES:

- A. MAINTAIN ALL NEC REQUIRED WORKING CLEARANCES FOR ALL ELECTRICAL EQUIPMENT.
- B. ALL WIRING SHALL BE (2) #12, #12 GND., UNLESS OTHERWISE NOTED.
- C. COORDINATE ALL MECHANICAL EQUIPMENT LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- D. ALL RECEPTACLES SHALL BE OF THE TAMPER PROOF TYPE PER NEC 406.12.
- E. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS. SHARED NEUTRALS ARE NOT ALLOWED. (U.O.N.) (NEC ARTICLE 200.4)

ELECTRICAL EQUIPMENT KEYNOTES

1. SERVICE ENTRANCE MULTI-METER CABINET.
2. PANEL 'A'.
3. PANEL 'B'.

FIRE ALARM GENERAL NOTES:

- A. SMOKE DETECTOR LOCATIONS SHALL BE IN COMPLIANCE WITH NFPA-72, CHAPTER 11.
- B. ANY SMOKE DETECTOR THAT IS IN A 20-FT HORIZONTAL PATH OF A COOKING APPLIANCE SHALL BE OF THE PHOTOELECTRIC TYPE SMOKE DETECTOR.
- C. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN A 36-IN HORIZONTAL PATH FROM A SUPPLY REGISTER AND SHALL BE INSTALLED OUTSIDE OF THE DIRECT AIRFLOW FROM THOSE REGISTERS.
- D. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN A 36-IN HORIZONTAL PATH FROM THE TIP OF THE BLADE OF A CEILING-SUSPENDED FAN.
- E. SMOKE DETECTORS SHALL BE IN COMPLIANCE WITH UL LISTING 217.
- F. ALL UNIT SMOKE DETECTORS SHALL BE SELF CONTAINED TYPE SMOKE DETECTORS. (U.O.N.)

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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: **Bobbet V. La Guardia**

DATE: 02/24/2023



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PARKER INDIAN HEALTH CENTER DUPLEX DESIGN

Parker, AZ
IHS PROJECT NO. PH21CR03Q3

U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



REVIEWED:

DPE ENGINEER/PROJECT MANAGER DATE

APPROVED:

DPE BRANCH CHIEF DATE

CONCURRENCE:

DPE CHIEF DATE

1	1/20/2023	Rev 1 - Permit Revisions
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POWER & SPECIAL SYSTEMS PLAN

EP101

Sheet 46 of 48

LOAD CENTER A SCHEDULE											10K
PANEL	A	120	240	VOLTS	1	PHASE	3	WIRE	AIC RATING	SERIES	
NEMA	1	AMP									
		MAIN		BKR	MOUNTING		X	FLUSH			
			X	LUGS				SURFACE			
CKT	DESCRIPTION	BKR	WIRE-GRD	COND.	A	B	COND.	WIRE-GRD	BKR	DESCRIPTION	CKT
1	BEDROOM 1 RCPT	20/1	12	NM	0.9		NM	12	20/1	KITCHEN REFRIG	2
					1.2						
3	BATH 1 CKT	20/1	12	NM		1.5	NM	12	20/1	GARBAGE DISP	4
						1.2					
5	DINNING RCPTS	20/1	12	NM	1.1		NM	12	20/1	KITCHEN APPLIANCE CKT	6
					1.2						
7	LIVING RCPTS	20/1	12	NM		1.1	NM	12	20/1	KITCHEN APPLIANCE CKT	8
						1.2					
9	LAUNDRY CKT	20/1	12	NM	1.5		NM	12	20/1	HALL RCPT	10
					0.2						
11	SMOKE ALARMS	20/1	12	NM		0.3	NM	12	20/1	PATIO LTG / RCPT	12
						0.2					
13	KITCHEN, LIVING, LTG	20/1	12	NM	0.8		NM	12	20/1	MASTER BATH CKT	14
					1.5						
15	BEDROOMS, BATH LTG	20/1	12	NM		0.8	NM	12	20/1	DISHWASHER	16
						1.2					
17	SPACE				1.5		NM	12	20/1	MICROWAVE	18
19	WH-1 CTRL CKT	20/1	12	NM		0.1	NM	12	15/2	FC-1	20
						0.6					
21	MECH RCPT	20/1	12	NM	0.2						22
					0.6						
23	SPACE					2.3	3/4"	8-10	35/2	HP-1	24
25	SPACE				2.3						26
27	WASHER/DRYER	30/2	10	NM		2.9	NM	6-10	50/2	RANGE	28
						6.0					
29					2.9						30
					6.0						
31	MASTER BED RCP	20/1	12	NM		1.4				SPACE	32

REFER TO LOAD CALCULATION, SHEET EP701.

NOTE: WIRE SIZE APPLIES TO PHASE, NEUTRAL AND GROUNDING CONDUCTORS UNLESS OTHERWISE NOTED.

☐ PROVIDE ARC FAULT CIRCUIT INTERRUPTER WITH VISIBLE LABEL.

LOAD CENTER B SCHEDULE												10K
PANEL B		120	240	VOLTS 1		PHASE 3		WIRE	AIC RATING	SERIES		
NEMA 1		200	AMP									
		MAIN		BKR	MOUNTING		X	FLUSH				
			X	LUGS				SURFACE				
CKT	DESCRIPTION	BKR	WIRE-GRD	COND.	A	B	COND.	WIRE-GRD	BKR	DESCRIPTION	CKT	
1	BEDROOM 1 RCPT	20/1	12	NM	0.9		NM	12	20/1	KITCHEN REFRIG	2	
					1.2							
3	BATH 1 CKT	20/1	12	NM		1.5	NM	12	20/1	GARBAGE DISP	4	
						1.2						
5	DINNING RCPTS	20/1	12	NM	1.1		NM	12	20/1	KITCHEN APPLIANC CKT	6	
					1.2							
7	LIVING RCPTS	20/1	12	NM		1.1	NM	12	20/1	KITCHEN APPLIANC CKT	8	
						1.2						
9	LAUNDRY CKT	20/1	12	NM	1.5		NM	12	20/1	HALL RCPT	10	
					0.2							
11	SMOKE ALARMS	20/1	12	NM		0.3	NM	12	20/1	PATIO LTG / RCPT	12	
						0.2						
13	KITCHEN, LIVING, LTG	20/1	12	NM	0.8		NM	12	20/1	MASTER BATH CKT	14	
					1.5							
15	BEDROOMS, BATH LTG	20/1	12	NM		0.8	NM	12	20/1	DISHWASHER	16	
						1.2						
17	FIRE BELL	20/1	12	3/4"	0.1		NM	12	20/1	MICROWAVE	18	
					1.5							
19	WH-1 CTRL CKT	20/1	12	NM		0.1	NM	12	15/2	FC-1	20	
						0.6						
21	MECH RCPT	20/1	12	NM	0.2						22	
					0.6							
23	SPACE					2.3	3/4"	8-10	35/2	HP-1	24	
25	SPACE				2.3						26	
27	WASHER/DRYER	30/2	10	NM		2.9		6-10	50/2	RANGE	28	
						6.0						
29					2.9						30	
					6.0							
31	MASTER BED RCP	20/1	12	NM		1.4				SPACE	32	

REFER TO LOAD CALCULATION, SHEET EP701.

NOTE: WIRE SIZE APPLIES TO PHASE, NEUTRAL AND GROUNDING CONDUCTORS UNLESS OTHERWISE NOTED.

☐ PROVIDE ARC FAULT CIRCUIT INTERRUPTER WITH VISIBLE LABEL.

REVIEWED FOR CODE COMPLIANCE

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SIGNATURE: Bobbet V. La Guardia

DATE: 02/24/2023

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Expires: 03/31/23

PARKER INDIAN HEALTH CENTER DUPLEX DESIGN

Parker, AZ
IHS PROJECT NO.PH21CR03Q3



U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



REVIEWED:

DFE ENGINEER/PROJECT MANAGER DATE

APPROVED

DFE BRANCH CHIEF _____ DATE _____

CONCURRENCE

DFE CHIEF _____ DATE _____

REV	DATE	DESCRIPTION
ISSUE: July 26, 2022 - Construction Documents		
PROJECT NO: 1818.900		
CAD DWG FILE:		
DRAWN BY: RL		
CHECKED BY:		

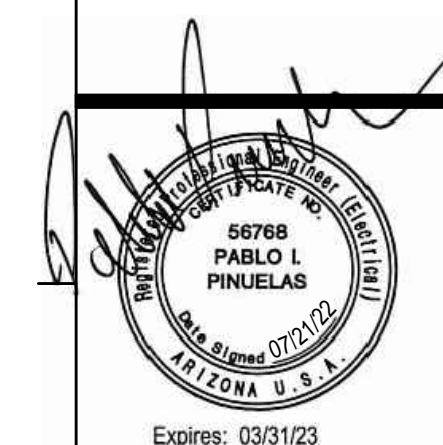
SHEET TITLE

PANEL SCHEDULES

EP601

Sheet 47 of 48

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Phone: (520) 200-2612	



Parker, AZ
IHS PROJECT NO.PH21CR0303



U. S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES

INDIAN HEALTH SERVICE
DIVISION OF FACILITIES ENGINEERING
PHOENIX AREA



REVIEWED:

DEF ENGINEER/PROJECT MANAGER _____ DATE _____

APPROVED:

DEF BRANCH CHIEF _____ DATE _____

BYE BRANCH CHIEF	DATE
CONCURRENCE:	

DFE CHIEF _____ DATE _____

[illegible]

REV	DATE	DESCRIPTION
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REV	DATE	DESCRIPTION
ISSUE:	July 26, 2022	Construction Documents

ISSUE: July 26, 2022 -
PROJECT NO: 1818.900

CAD DWG FILE:

A	DRAWN BY:

SHEET TITLE

TYP 'SES-1' / 'SES-2'
SINGLE LINE DIAGRAM

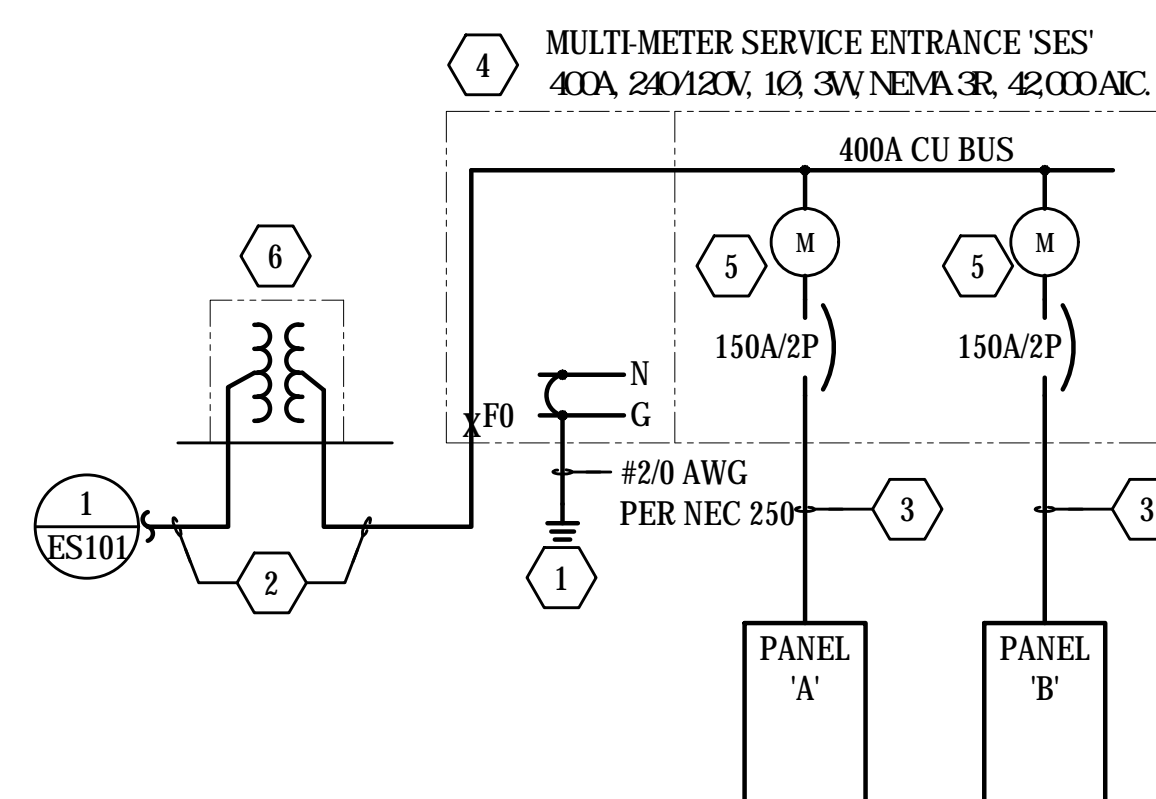
EP701

Sheet 48 of 48

TYP SES-1 & 2 LOAD CALCULATION (NEC 220.84)	
LTGRCEPTS @ 3 VA X SQFT (2564 SQFT)	7.7 KVA
KITCHEN APPLANCE LOAD (4 @ 1.5 KVA)	6.0 KVA
LAUNDRY CIRCUIT @ 1.5 KW X 2	3.0 KVA
DRYER X 2	10.0 KVA
GARBAGE DISP X 2	2.4 KVA
DISHWASHER X 2	2.4 KVA
REFRIGERATOR X 2	2.4 KVA
MICROWAVE HOOD X 2	2.4 KVA
RANGE (ELECTRIC) X 2	24.0 KVA
HP UNIT @ 100% X 2	9.1 KVA
FC UNIT @ 100% X 2	2.4 KVA
TOTAL	71.8 KVA

TYPICAL UNIT LOAD CALCULATION (NEC 220.82)		
LTG/RECEPTS @ 3 VA X SQ/FT (1282 SQ/FT		3.8 KVA
KITCHEN APPLANCE LOAD (2 @ 1.5 KVA)		3.0 KVA
LAUNDRY CIRCUIT @ 1.5 KW		1.5 KVA
DRYER		5.0 KVA
GARBAGE DISP		1.2 KVA
DISHWASHER		1.2 KVA
REFRIGERATOR		1.2 KVA
MICROWAVE/HOOD		1.2 KVA
RANGE (ELECTRIC)		12.0 KVA
SUBTOTAL		30.2 KVA

FIRST 10.0 KVA @ 100%	10.0 kVA
REMAINDER (20.2 kVA) @ 40%	8.1 kVA
HP UNIT @ 100%	4.6 kVA
FC UNIT @ 100%	1.2 kVA
TOTAL	23.8 kVA



SHORT CIRCUIT CALCULATION:

F0 = AVAILABLE SHORT CIRCUIT CURRENT IS
20.955 AIC (USING APS TABLE 800.2)

GENERAL NOTES

1. METER PROVIDED AND INSTALLED BY UTILITY. COORDINATE REQUIREMENTS WITH UTILITY AND SUBMIT ME METER AND UNDERGROUND PULL SECTIONS TO UTILITY METER SHOP FOR APPROVAL.

➤ SINGLE LINE KEY NOTES:

1. INSTALL COPPER GROUNDING ELECTRODE CONDUCTOR SIZED AS INDICATED & BOND TO COLD WATER PIPING, STEEL GAS PIPING (IF AVAILABLE), UFER GROUND & (2) 3/4" x 10" COPPER CLAD GROUND RODS SEPARATED 6'-0" MINIMUM PER NEC ARTICLE 250.
2. (1) 4" EMPTY CONDUIT W/ PULLCORD PER BIA REQUIREMENTS.
3. (3) #1/0 AWG, #6 AWG GND., 2" C.
4. MULTI-METER SERVICE ENTRANCE EQUAL TO EATON GROUP METERING 'MP' SERIES.
5. METER SOCKET PER BIA REQUIREMENTS.
6. PAD MOUNT TRANSFORMER INSTALLED BY BIA. PROVIDE AND INSTALL PAD PER BIA REQUIREMENTS.

SERIES RATING NOTE:
ALL LOAD CENTERS SHALL BE SERIES RATED TO THEIR UPSTREAM
CIRCUIT BREAKER. INSTALLATION SHALL COMPLY WITH NEC 240.86.
PROVIDE EQUIPMENT NAMEPLATE(S) PER NEC 110.22

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BUREAU VERITAS NORTH AMERICA, INC.

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