

WANDERIST OFFICE & RETAIL

3743 E. INDIAN SCHOOL ROAD, PHOENIX, AZ 85018

ABBREVIATIONS

A	AIR	MICRO	MICROWAVE
A/C	AIR CONDITIONING	MIN	MINIMUM
ACT	ACOUSTICAL TREATMENT (CEILING TILE OR PANEL)	MIR	MIRROR
AD	AREA DRAIN	MISC	MISCELLANEOUS
ADD	ADDENDUM	MM	MILLIMETER - S
ADJ	ADJUSTABLE	MTL	METAL
AFF	ABOVE FINISH FLOOR	MULL	MULLION
AL, ALUM	ALUMINUM	N	NORTH
ALT	ALTERNATE	NA	NOT APPLICABLE
ANOD	ANODIZED	NIC	NOT IN CONTRACT
APPROX	APPROXIMATE	NO, #	NUMBER
ARCH	ARCHITECT, -URAL	NOM	NOMINAL
BETW	BETWEEN	NTS	NOT TO SCALE
BLDG	BUILDING	OC	ON CENTER
BOC	BOTTOM OF CURB	OD	OVERFLOW DRAIN
BOF	BOTTOM OF FOOTING	OFCl	OWNER FURNISHED/CONTRACTOR INSTALLED
CAB	CABINET	OFI	OWNER FURNISHED & INSTALLED
CARD	CARD READER	OH	OPPOSITE HAND
CB	CATCH BASIN	OPP	OPPOSITE
CEM	CEMENT	OSB	ORIENTED STRANDBOARD
CJ	CONTROL JOINT	OZ	OUNCE
CL	CENTERLINE	PCF	POUNDS PER CUBIC FEET
CLG	CEILING	PERF	PERFORATE, -D
CLO	CLOSET	PL	PLATE
CLR	CLEAR, -ANCE	PLAM	PLASTIC LAMINATE
CM	CENTIMETER	PLAS	PLASTER
CMU	CONCRETE MASONRY UNIT	PLYWD	PLYWOOD
COL	COLUMN	PNL	PANEL
CONC	CONCRETE	PNT, P	PAINT, -ED
CONST, CONSTR	CONSTRUCTION	PORC	PORCELAIN
CONT	CONTINUE, -OUS	POS	POSITION
CORR	CORRIDOR	PREFAB	PREFABRICATE, -D
CTR	CENTER	PTN	PARTITION
DEMO	DEMOLISH, DEMOLITION	R	RECEPTACLE
DEP, DEPR	DEPRESSED	R	RISER
DET, DTL	DETAIL	RAD	RADIUS
DIA	DIAMETER	RCP	REFLECTED CEILING PLAN
DIAG	DIAGONAL	RD	ROOF DRAIN
DIM	DIMENSION	REF	REFERENCE
DN	DOWN	REFL	REFLECT, -ED, -IVE, -OR
DP	DAMPPOOFING	REFR	REFRIGERATOR
DWG	DRAWING	REINF	REINFORCE
E	EAST	REM	REMOVE
EA	EACH	REQ'D	REQUIRED
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	REV	REVISE, REVISION
EJ	EXPANSION JOINT	R	ROUGH OPENING
EL	ELEVATION	S	SOUTH
ELEC	ELECTRICAL	SCHED	SCHEDULE
ELEV	ELEVATOR	SEAL	SEALANT
EMER	EMERGENCY	SECT	SECTION
EP	ELECTRICAL PANEL	SHT	SHEET
EPS	EXPANDED POLYSTYRENE	SHTHG	SHEATHING
EQ	EQUAL	SHWR	SHOWER
EQUIP	EQUIPMENT	SIL	SILICONE
EX, (E)	EXISTING	SIM	SIMILAR
EXP	EXPOSED	SPEC	SPECIFICATION (S)
EXT	EXTERIOR	SPF	SPRAY POLYURETHANE FOAM
FA	FIRE ALARM	SPK	SPEAKER
FD	FLOOR DRAIN	SPR	SINGLE-PLY ROOFING
FDN	FOUNDATION	SQ	SQUARE
FE	FIRE EXTINGUISHER	SST, SS	STAINLESS STEEL
FEC	FIRE EXTINGUISHER CABINET	STC	SOUND TRANSMISSION CLASS
FF	FINISHED FLOOR	STD	STANDARD
FHC	FIRE HOSE CABINET	STL	STEEL
FIN	FINISH	STOR	STORAGE
FLR, FL	FLOOR, -ING	STR, STRL	STRUCTURE, STRUCTURAL
FOC	FACE OF CONCRETE	SYM	SYMMETRY, -(ICAL)
FOF	FACE OF FINISH	T	TEL/DATA OUTLET
FOM	FACE OF MASONRY	T STAT	THERMOSTAT
FOS	FACE OF STUDS	T&G	TONGUE AND GROOVE
FUT	FUTURE	TEL	TELEPHONE
GA	GAUGE	THK	THICK, -NESS
GAL, GALV	GALVANIZED	THRU	THROUGH
GFI	GROUND FAULT INTERRUPTER	TOC	TOP OF CONCRETE, CURB
GL	GLASS, GLAZING, GLAZED	TOP	TOP OF FOOTING
GWB	GYPSPUM BOARD	TOP	TOP OF PAVEMENT
GYP	GYPSPUM	TOS	TOP OF STEEL
HB	HOSE BIB	TOW	TOP OF WALL
HGT, HT	HEIGHT	TRANS, TPT	TRANSPARENT
HM	HOLLOW METAL	TV	TELEVISION
HOR, HORIZ	HORIZONTAL	TYP	TYPICAL
HSS	HOLLOW STEEL SHAPE	UC	UNDER CABINET
HVAC	HEATING, VENTILATING, AIR CONDITIONING	UL	UNDERWRITERS' LABORATORIES
ID	INSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
INCL	INCLUDE, -D, -ING	UNO	UNLESS OTHERWISE NOTED
INSUL	INSULATE, -ION, -D, -ING	VCT	VINYL COMPOSITION TILE
INT	INTERIOR	VERT	VERTICAL
IT	JOINT	VIF	VERIFY IN FIELD
KIT	KITCHEN	W	WEST
LAM	LAMINATE	W	WIDTH
LAV	LAVATORY	W	WITH
LT	LIGHT	WO	WITHOUT
LVL	LEVEL	WC	WATER CLOSET
MANUF	MANUFACTURER	WD	WOOD
MAS	MASONRY	WDW	WINDOW
MAT, MATL	MATERIAL, -S	WF	WIDE FLANGE
MAX	MAXIMUM	WP	WATERPROOF, -ING
MDF	MEDIUM DENSITY FIBERBOARD	WP/C	WATERPROOFING, CRYSTALLINE
MECH	MECHANIC, -AL	WT	WEIGHT
MED	MEDIUM	WWF	WELDED WIRE FABRIC
MEMB	MEMBRANE	XPS	EXTRUDED POLYSTYRENE INSULATION
MET	METAL, -LIC		
MFD	MANUFACTURED		

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GENERAL NOTES

IF THERE IS A CONFLICT BETWEEN ANY NOTES, DRAWINGS, OR SPECIFICATIONS, THE MOST RESTRICTIVE SHALL APPLY.

ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE GOVERNING EDITION OF THE INTERNATIONAL BUILDING CODE, OR SUCH OTHER LEGAL CODES, AND SHALL CONFORM TO ANY SPECIAL REQUIREMENTS OF ANY LENDING OR GOVERNMENTAL INSTITUTIONS.

CONTRACTOR AND SUBCONTRACTORS SHALL BE LICENSED IN THE STATE OF THE PROJECT SITE AND SHALL BE KNOWLEDGEABLE, SKILLED, AND COMPETENT TO PERFORM THE INTENDED WORK.

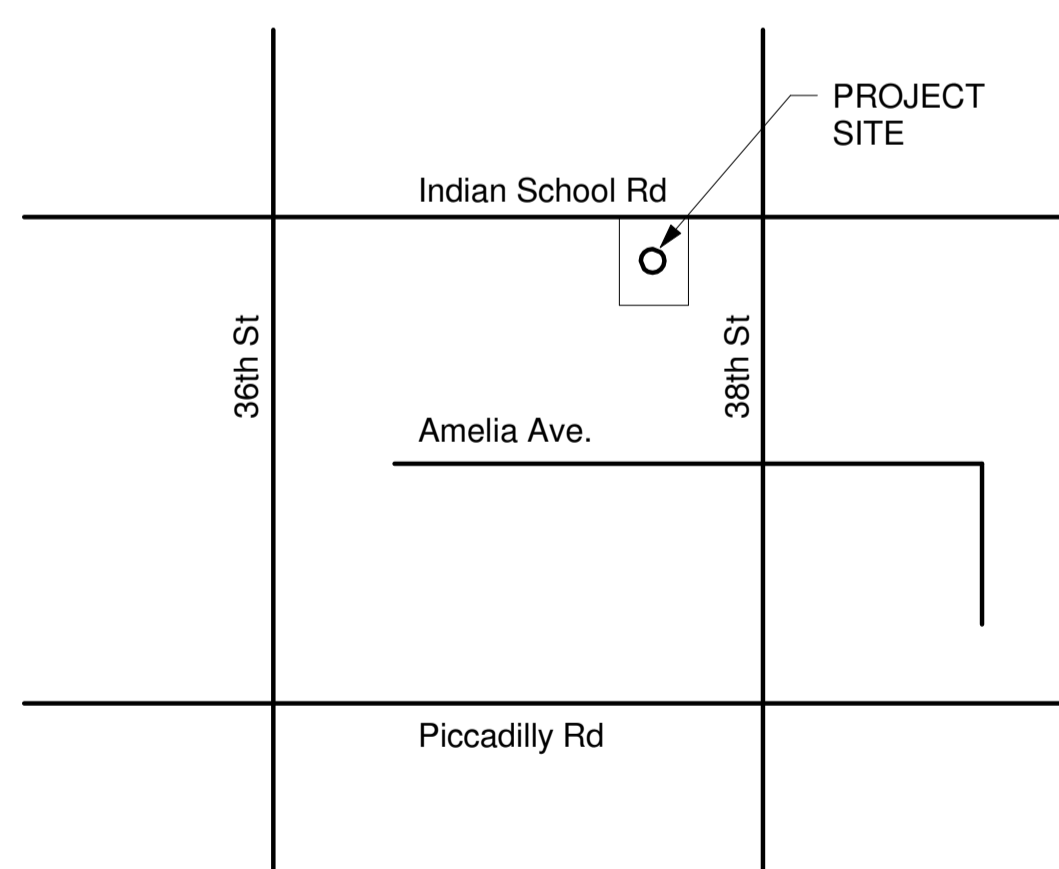
CONTRACTOR AND SUBCONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN A PROFESSIONAL MANNER BY SKILLED CRAFTSMAN OR TRADESMAN AND SHALL REPLACE ANY ITEMS DAMAGED BY THE CONTRACTOR OR SUBCONTRACTORS AT NO COST TO THE OWNER. SUBCONTRACTORS SHOULD COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHERS WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK IN A TIMELY MANNER.

CONTRACTOR AND SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES, AND FOR THE SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.

CONTRACTOR AND SUBCONTRACTORS SHALL, AT ALL TIMES INDEMNIFY AND HOLD THE ARCHITECT HARMLESS AGAINST ALL LIABILITY FOR CLAIMS AND LIENS FOR LABOR PERFORMED OR MATERIALS USED OR FURNISHED TO BE USED ON THE JOB, INCLUDING ANY COSTS AND EXPENSES FOR ATTORNEY FEES AND ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING TO THE ARCHITECT ARISING FROM SUCH CLAIMS.

ALL BIDS SUBMITTED AND ACCEPTED UNDER THIS CONTRACT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE DOCUMENTS.

THE ARCHITECT NEITHER WARRANTS NOR GUARANTEES ANY CONSTRUCTION MATERIAL, EQUIPMENT, APPLIANCE, FIXTURE, HARDWARE, FINISH, OR MEAN/METHOD OF CONSTRUCTION. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY PROJECT SITE GRADING OR DRAINAGE, NOR ANY TOXIC AND HAZARDOUS MATERIAL, GROUND EROSION, CORROSION, SUBSOIL, OR AIR AND WATER CONDITIONS, OR SIMILAR SUCH CONDITIONS OF THE PROJECT.



VICINITY MAP

PROJECT DESCRIPTION

NEW 3,760 SF OFFICE/RETAIL BUILDING CONSTRUCTED ON EXISTING SLAB ON GRADE.

DEFERRED SUBMITTALS

FIRELINE FIRE ALARM
FIRE SPRINKLER
FIRE ACCESS GATE ACCESS
KNOX BOX

SEPARATE SUBMITTALS

SIGNAGE
LANDSCAPE
INVENTORY/SALVAGE
GATES

CODE COMPLIANCE

2018 INTERNATIONAL BUILDING CODE
2018 UNIFORM PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2017 NATIONAL ELECTRIC CODE
2018 INTERNATIONAL FUEL AND GAS CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2012 INTERNATIONAL FIRE CODE

SPECIAL INSPECTIONS

SEE STRUCTURAL S.02

CONTRACTOR & OWNER NOTICE

THIS PROJECT HAS BEEN PERMITTED UNDER THE CITY OF PHOENIX SELF-CERTIFICATION PROGRAM. THE PROJECT IS SUBJECT TO AUDIT AND FIELD INSPECTION BY THE PLANNING & DEVELOPMENT DEPARTMENT. IF THE CONSTRUCTION OF THE PROJECT IS CONTRARY TO, OR DOES NOT MEET THE STANDARD OF THE CITY OF PHOENIX BUILDING CONSTRUCTION CODES, THE OWNER, AT HIS/HER OWN EXPENSE, SHALL REMOVE OR MODIFY ANY AND ALL COMPONENTS THAT DO NOT CONFORM. ANY DEVIATIONS FROM THE APPROVED PLAN MUST BE COORDINATED IN ADVANCE WITH THE CITY INSPECTOR AND REVISED PLANS OR SKETCHES MUST BE PROVIDED BY THE SELF-CERTIFIED PROFESSIONAL.

CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT THESE DRAWINGS ARE PREPARED BY ME, UNDER MY SUPERVISION, OR REVIEWED BY ME AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE CONFORM TO THE PHOENIX BUILDING CONSTRUCTION CODE.

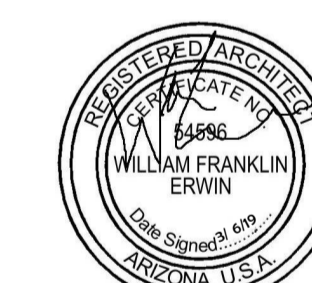
SELF CERTIFIED BY: *Donald Andrews* DATE: 03/11/19
DONALD ANDREWS CERTIFICATE #45

- PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL, PLANS ARE COMPLETE.
- THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

KIVA #18-1372
SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36

SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE
-	PRE-APP MTG	10.10.18
-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19



Expires 6.30.19

Owner JONATHAN PITT
Proj. Name WANDERIST OFFICE & RETAIL

COVER SHEET

Date 03/06/19

A000

Scale 1/4" = 1'-0"

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SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE
-	PRE-APP MTG	10.10.18
-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19

Expires 6.30.19

Owner JONATHAN PITT
 Proj. Name WANDERIST OFFICE & RETAIL

CODE DATA & EGRESS PLAN

Date 03/06/19

Scale As indicated

KIVA #18-1372
 SDEV #1800276
 PAPP #1806619
 PRLC
 QS Q16-36

ZONING DATA

PARCELS: 127-25-120-J & 127-25-122
 ZONING: C-1
 ADDRESS: 3743 E. INDIAN SCHOOL ROAD, PHOENIX, AZ 85018

CONSTRUCTION TYPE

TYPE VB - SPRINKLERED (UNDER SEPARATE PERMIT)
 OCCUPANCY CLASSIFICATION B, M
 2018 IECC CLIMATE ZONE - 2B

BUILDING LIMITATIONS

REFERENCE IBC TABLE 504.3, SECTION 504.4, AND SECTION 506.2

GROUP	TYPE 5B	HEIGHT	AREA
M	2 / 27,000	UL	
B	3 / 27,000	UL/UL	

MAX HEIGHT 60'
 THE PROPOSED BUILDING IS A SINGLE STORY

OCCUPANCY CLASSIFICATION

REFERENCE IBC TABLE 1004.1.2

AREA OF USE	OCCUPANCY	LOAD FACTOR
PARKING GARAGE	S-2	200 GROSS
STORAGE	S-1	300 GROSS
MECH/ELEC	S-1	300 GROSS
BUSINESS	B	100 GROSS
MERCANTILE	M	30 GROSS
SWIMMING POOL	A-3	50 GROSS
SWIMMING POOL DECK	A-3	15 GROSS
RESIDENTIAL UNIT	R-2	200 GROSS
RES. BALCONY/PATIO	R-2	200 GROSS
CIRCULATION SPACE	NA	100 GROSS
ASSEMBLY (UNCONCENTRATED)	A-3	15 NET
ASSEMBLY (CONCENTRATED)	A-3	7 NET

FIRE RESISTANCE RATING

BUILDING ELEMENT	TYPE 5B	TABLE
STRUCTURAL FRAME	0 HR	TABLE 601
EXTERIOR NON-BEARING WALLS	X-5'	TABLE 602
INTERIOR NON-BEARING WALLS	0 HR	TABLE 601
EXTERIOR BEARING WALLS	0 HR	TABLE 601
INTERIOR BEARING WALLS	0 HR	TABLE 601
FLOOR CONSTRUCTION	0 HR	TABLE 601
ROOF CONSTRUCTION	0 HR	TABLE 601

SAFETY GLAZING

GLAZING LOCATION	MINIMUM CATEGORY CLASSIFICATION	9 SF OR LESS	MORE THAN 9 SF
FRAMED SWING DOORS	I		II
UNFRAMED SWING DOORS	I		II
TUB AND SHOWER ENCLOSURE	NR		II
ADJACENT TO DOORS	I		II
INDIVIDUAL PANELS	II		II
ADJACENT WALKING SURFACE	NR		II

SAFETY GLAZING WILL NOT BE PROVIDED WHERE ALLOWED BY IBC 2406.3

EXIT TRAVEL DISTANCE

MAXIMUM EXIT ACCESS TRAVEL DISTANCE	IBC, TABLE 1016.2
GROUP M	250 FEET
GROUP B	300 FEET

MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE	IBC, TABLE 1014.3
GROUP M	75 FEET
GROUP B	100 FEET

DISTANCES REFLECT THE PRESENCE OF AUTOMATIC SPRINKLER SYSTEM

EGRESS COMPONENTS

EXIT SIGNS:
 1. EXITS AND EXIT ACCESS DOORS WILL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. EXIT SIGN PLACEMENT WILL BE SUCH THAT NO POINT IN A CORRIDOR IS MORE THAN 100 FEET, OR THE LISTED VIEWING DISTANCE FROM THE SIGN, WHICH EVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN.
 2. EXIT SIGN LETTERS TO BE NOT LESS THAN 2" WIDE X 6" HIGH (EXCEPT LETTER I), AND THE MINIMUM SPACING BETWEEN THE LETTERS WILL NOT BE LESS THAN (3/4) INCHES. IBC FIGURE 1011.6.1
 3. EXIT SIGN LETTERS TO BE IN HIGH CONTRAST WITH THE BACKGROUND AND CLEARLY DISCERNABLE WHEN THE MEANS OF EGRESS ILLUMINATION IS OR IS NOT ENERGIZED.
 4. TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE SIGN WILL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM AN ONSITE GENERATOR.

DOORS:
 1. MINIMUM CLEAR WIDTH SHALL BE .2 INCHES PER OCCUPANT SERVED. MINIMUM CLEAR WIDTH SHALL BE REDUCED TO .15 INCHES PER OCCUPANT SERVED IN BUILDING EQUIPPED THROUGHOUT AUTOMATIC SPRINKLER SYSTEM & EMERGENCY VOICEALARM COMMUNICATION SYSTEM, BUT NOT LESS THAN 32 INCHES. IBC, SECTION 1005.3.2 AND TABLE 1008.1.1
 2. MINIMUM HEIGHT SHALL BE 80 INCHES. IBC, SECT 1008.1.1
 3. MAXIMUM WIDTH OF SWINGING DOOR LEAF IS 48 INCHES. IBC, SECT 1008.1.1
 4. DOORS WILL BE SIDE HINGED SWINGING TYPE, AND WILL SWING IN THE DIRECTION OF TRAVEL WHERE THE AREA SERVED HAS AN OCCUPANT OF 50 OR MORE. IBC SECT 1008.1.2
 5. DOORS WILL BE SET IN MOTION WHEN SUBJECTED TO A 30 POUND FORCE, AND SWING TO THE FULLY OPEN POSITION WHEN SUBJECTED TO A 15 POUND FORCE. IBC, TABLE 1008.1.3
 6. DOORS WILL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR SPECIAL EFFORT.

CORRIDORS:
 1. MINIMUM CLEAR WIDTH SHALL BE .15 INCHES PER OCCUPANT SERVED IN BUILDING EQUIPPED THROUGHOUT AUTOMATIC SPRINKLER SYSTEM & EMERGENCY VOICEALARM COMMUNICATION SYSTEM, BUT NOT LESS THAN 44 INCHES. IBC, SECT 1005.3.2 & 1018.2
 2. MIN CLEAR WIDTH WITH AN OCCUPANT CAP OF 50 OR LESS IS 36 INCHES. IBC SECT 1018.2
 3. THE MAXIMUM LENGTH OF DEAD-END CORRIDORS IS 50 FEET FOR GROUP B, M, S, & R-2 AND 20 FEET FOR ALL OTHER OCCUPANCIES. IBC, SECTION 1018.4

INTERVENING ROOMS:
 1. EGRESS FROM A ROOM OR SPACE MAY NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS ARE ACCESSORY TO THE AREA SERVED, NOT A HIGH-HAZARD OCCUPANCY, AND PROVIDE A DISCERNABLE PATH OF EGRESS TRAVEL TO AN EXIT. IBC SECT 1014.2
 2. EGRESS MAY NOT PASS THROUGH STORAGE ROOMS, CLOSETS, OR SPACES USED FOR SIMILAR PURPOSES.
 3. EXIT ACCESS MAY NOT PASS THROUGH A ROOM THAT CAN BE LOCKED TO PREVENT EGRESS. IBC, SECTION 1014.2

CODE DATA

2018 CITY OF PHOENIX BUILDING CONSTRUCTION CODE INCLUDING THE FOLLOWING CODES AND AMENDMENTS:
 2018 IBC (INTERNATIONAL BUILDING CODE)
 2018 IECC (INTERNATIONAL ENERGY CONSERVATION CODE)
 2018 IFC (INTERNATIONAL FIRE CODE)
 2017 NEC (NATIONAL ELECTRIC CODE)
 2018 IMC (INTERNATIONAL MECHANICAL CODE)
 2018 IPC (INTERNATIONAL PLUMBING CODE)
 2018 UPC (UNIFORM PLUMBING CODE)

ACCESSIBILITY:
 CHAPTER 11 OF THE IBC
 2009 ANSI A117.1, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

OTHER:
 VARIOUS NFPA CODES AND STANDARDS AS REFERENCED BY CODES LISTED ABOVE

FIRE EXTINGUISHERS

EX PER IBC TABLE SECTION 906 PROVIDE 2-A RATED EXTINGUISHERS. MAX TRAVEL DISTANCE TO EXTINGUISHER 75'-0". MAXIMUM FLOOR AREA PER UNIT OF "A" IS 3,000 SF.
 EXIT SIGN

PLUMBING FIXTURE COUNTS

IBC TABLE 2902.1

CLASSIFICATION	OCCUPANCY	WATER CLOSETS	LAVS	TUB / SHOWERS	DRINKING FOUNTAINS	OTHER
BUSINESS	B	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	-	1 per 100 14/100 - 14	1 Service Sink
MERCANTILE	M	1 per 500 78/500 - 15	1 per 750 78/750 - 10	-	1 per 1000 78/1000 - 078	1 Service Sink

WATER CLOSETS
 1 REQUIRED
 2 PROVIDED

DRINKING FOUNTAINS
 1 REQUIRED
 WATER COOLER PROVIDED IN LIEU OF DRINKING FOUNTAIN

SERVICE SINK
 1 REQUIRED
 1 PROVIDED

NOTE: PER IBC 2902.2 SEPARATE FACILITIES ARE NOT REQ'D FOR EA. SEX IN MERCANTILE OCCUPANCIES W/ MAXIMUM OCCUPANT LOAD OF 100 OR FEWER OR BUSINESS OCCUPANCIES W/ 25 OR FEWER. PROVIDE UNISEX SIGNAGE PER IBC 2902.4

IECC DATA

ALL NEW FENESTRATION MUST MEET REQUIREMENTS OF 2012 IECC TABLE C402.3 CLIMATE ZONE 2

TABLE C402.3 BUILDING ENVELOPE REQUIREMENTS: FENESTRATION

CLIMATE ZONE	Vertical fenestration							
	1	2	3	4 EXCEPT MARINE 5 AND MARINE 6	6	7	8	
U-factor	0.50	0.50	0.46	0.38	0.38	0.36	0.29	0.29
Fixed fenestration	0.50	0.50	0.46	0.38	0.38	0.36	0.29	0.29
Operable fenestration	0.65	0.65	0.60	0.45	0.45	0.43	0.37	0.37
Entrance doors	1.10	0.83	0.77	0.77	0.77	0.77	0.77	0.77
SHGC	0.25	0.25	0.25	0.40	0.40	0.40	0.45	0.45
SHGC	0.25	0.25	0.25	0.40	0.40	0.40	0.45	0.45
U-factor	0.75	0.65	0.55	0.50	0.50	0.50	0.50	0.50
SHGC	0.35	0.35	0.35	0.40	0.40	0.40	NR	NR

NR = No requirement.

OCCUPANT LOAD

OCCUPANT LOAD TABLE

AREA NAME	USE GROUP	AREA	NET OR GROSS	LOAD FACTOR	OCCUPANT LOAD
OFFICE & STOCK ROOM	B	1408 SF	GROSS	100 SF	14
RETAIL AREA	M	2336 SF	GROSS	30 SF	78

NO SEPARATION BETWEEN USES REQUIRED PER TABLE 508.4

EXIT ARRANGEMENT

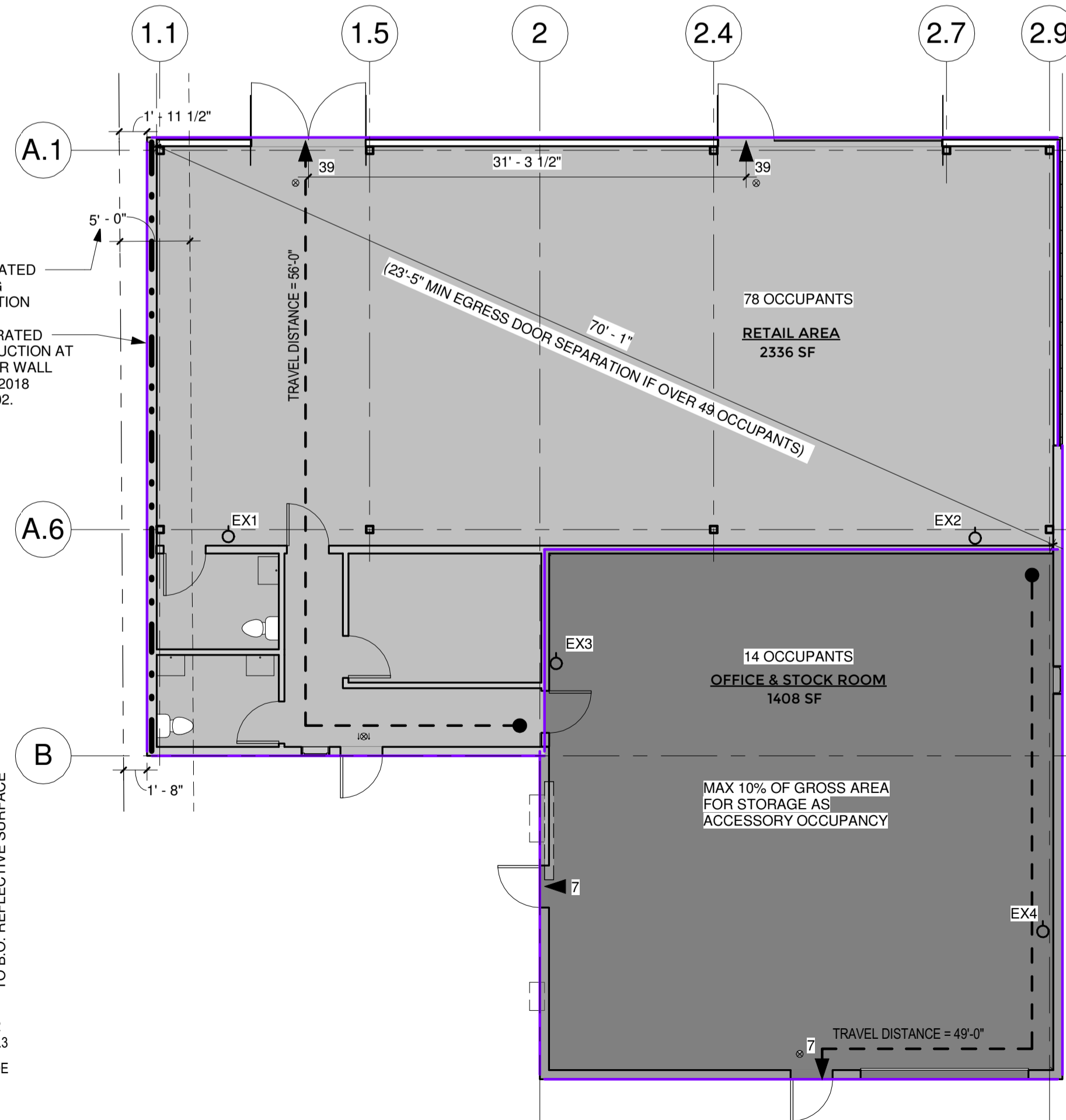
REFERENCE IBC SECTION 1015 & 1021

A MINIMUM OF TWO EXITS WILL BE PROVIDED WHERE EVER THE OCCUPANT LOAD IS GREATER THAN 49 PERSONS IN B AND M USES.

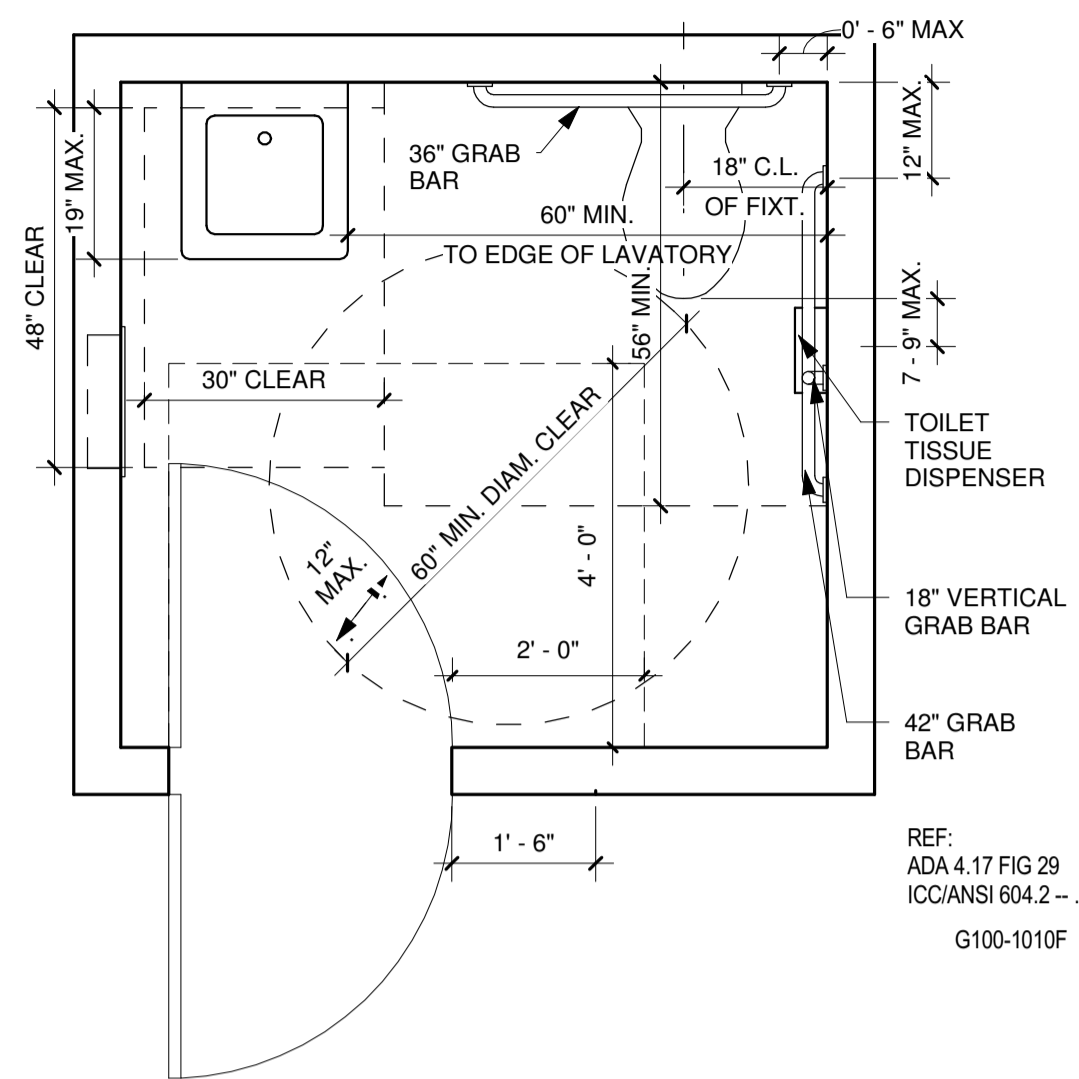
RETAIL AREA
 2 EXITS REQUIRED
 2 EXITS PROVIDED

PRINT AREA
 1 EXIT REQUIRED
 2 EXITS PROVIDED

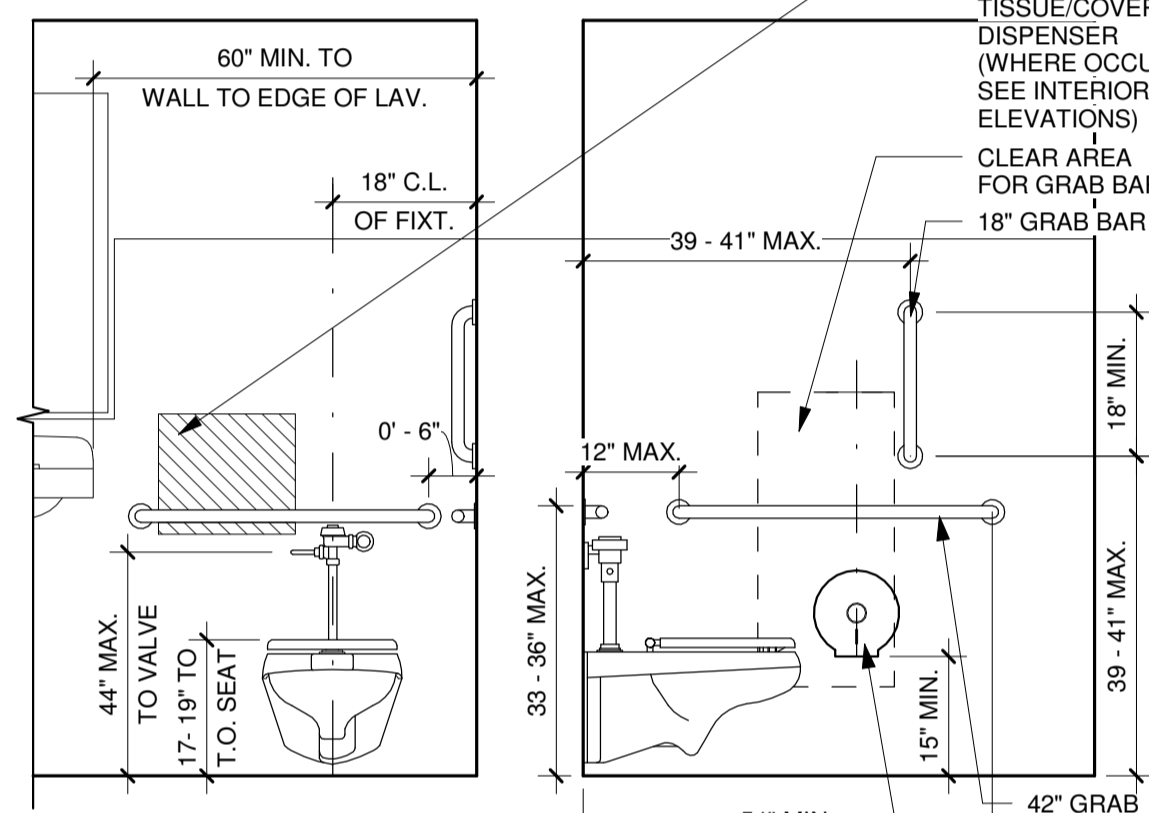
WHERE EVER TWO EXITS ARE REQUIRED FROM ANY PORTION OF THE BUILDING, THE EXITS WILL BE LOCATED A DISTANCE OF NOT LESS THAN ONE-THIRD OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE SPACE.



1 CODE PLAN AND EXITING DIAGRAM
 1/8" = 1'-0"



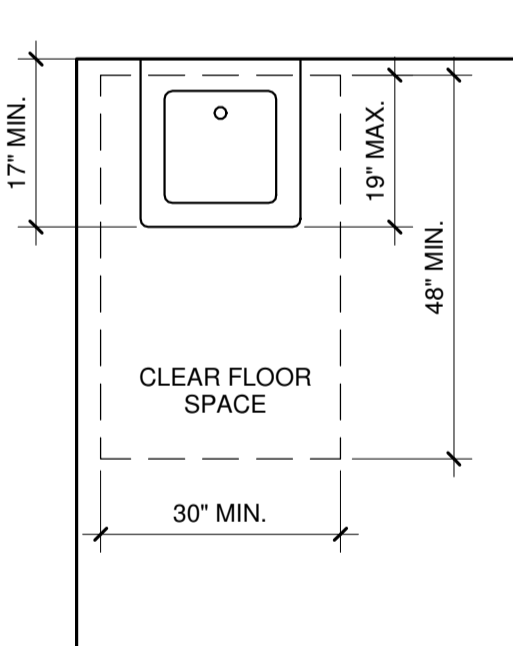
16. BATHROOM PLAN



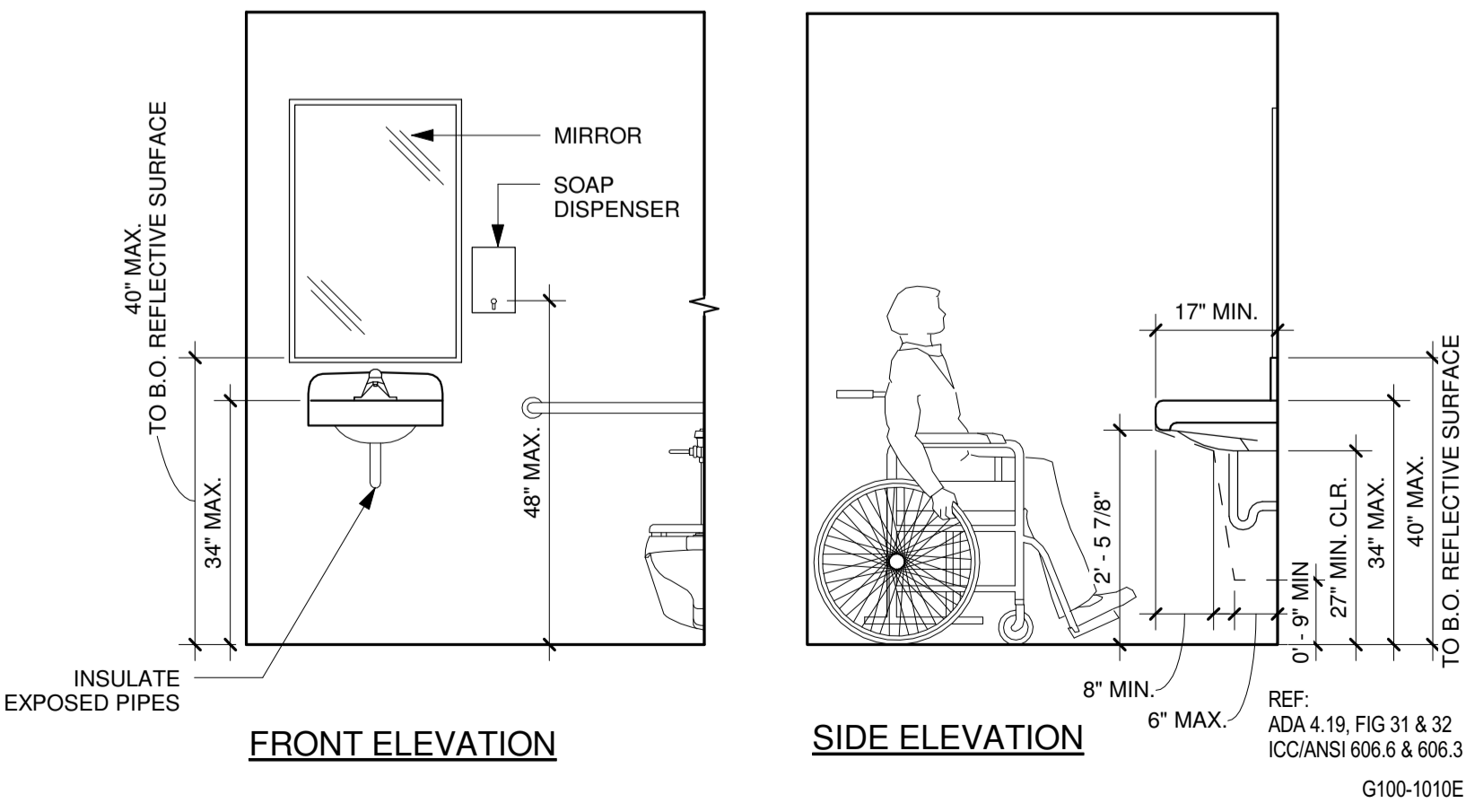
15. FRONT ELEVATION

14. SIDE ELEVATION

3 SINGLE TOILET ROOM
 1/2" = 1'-0"



SINK PLAN



FRONT ELEVATION

SIDE ELEVATION

2 ACCESSIBLE LAVATORY
 1/2" = 1'-0"

COMcheck Software Version 4.1.1.0
Envelope Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Wanderist Office & Retail
Location: Phoenix, Arizona
Climate Zone: 2b
Project Type: New Construction
Vertical Glazing / Wall Area: 29%
Skylight / Roof Area: 0%

Construction Site: 3743 E. Indian School Road, Phoenix, AZ 85018
Owner/Agent: Jonathan Pitt, Superluxe Screen Printing, 3007 N 73rd St Ste. E, Scottsdale, AZ 85251, 480.247.6653

Designer/Contractor: William Erwin, Erwin Architecture & Development, LLC, 5911 W. Park Ave, Chandler, AZ 85226, 602.677.8372, will@erwinarchitecture.com

Additional Efficiency Package(s)

Enhanced Envelope Performance

Building Area	Floor Area
1-Retail with office, print area, and support space (Retail) : Nonresidential	3744

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor _{req}
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - Retail with office, print area, and support space]	3744	28.0	10.0	0.026	0.027
Skylight 1: Metal Frame with Thermal Break-Glass, With Curb, Perf. Specs.: Product ID 3762, SHGC 0.35, [Bldg. Use 1 - Retail with office, print area, and support space] (c)	5	---	---	0.650	0.650
Floor 1: Slab-On-Grade-Unheated, [Bldg. Use 1 - Retail with office, print area, and support space] (d)	265	---	---	0.730	0.730
NGRT11					
Exterior Wall 5: Wood-Framed, 24" o.c., [Bldg. Use 1 - Retail with office, print area, and support space]	980	20.0	0.0	0.062	0.064
Window 4: Other Window-Fixed, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - Retail with office, print area, and support space] (c)	673	---	---	0.180	0.500
Window 5: Other Window-Fixed, Perf. Specs.: Product ID NA, SHGC 0.33, PF 0.38, [Bldg. Use 1 - Retail with office, print area, and support space] (c)	96	---	---	0.500	0.500
Door 4: Glass (> 50% glazing) Nonmetal Frame, Entrance Door, Perf. Specs.: Product ID NA, SHGC 0.37, PF 0.38, [Bldg. Use 1 - Retail with office, print area, and support space] (c)	99	---	---	0.830	0.830
EAST					
Exterior Wall 1: Wood-Framed, 24" o.c., [Bldg. Use 1 - Retail with	1007	20.0	0.0	0.062	0.064

Project Title: Wanderist Office & Retail
Data filename: C:\Users\stoccl\Desktop\Wanderist.cck
Report date: 03/04/19
Page 1 of 11

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor _{req}
office, print area, and support space]	275	---	---	0.180	0.500
Window 1: Other Window-Fixed, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - Retail with office, print area, and support space] (c)	22	---	---	0.650	0.650
Window 3: Metal Frame-Operable, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - Retail with office, print area, and support space] (c)					
SOUTH					
Exterior Wall 1: Wood-Framed, 24" o.c., [Bldg. Use 1 - Retail with office, print area, and support space]	980	20.0	0.0	0.062	0.064
Window 2: Metal Frame-Operable, Perf. Specs.: Product ID NA, SHGC 0.25, [Bldg. Use 1 - Retail with office, print area, and support space] (c)	7	---	---	0.650	0.650
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Retail with office, print area, and support space]	42	---	---	0.610	0.610
Door 2: Insulated Metal, Garage door 14% glazing, [Bldg. Use 1 - Retail with office, print area, and support space]	126	---	---	0.310	0.310
WEST					
Exterior Wall 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - Retail with office, print area, and support space]	750	20.0	0.0	0.064	0.064
Exterior Wall 4: Wood-Framed, 24" o.c., [Bldg. Use 1 - Retail with office, print area, and support space]	340	20.0	0.0	0.062	0.064
Door 3: Insulated Metal, Swinging, [Bldg. Use 1 - Retail with office, print area, and support space]	21	---	---	0.610	0.610

- (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
- (b) Other components require supporting documentation for proposed U-factors.
- (c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
- (d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope Passes: Design 12% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

William Erwin, President
Name - Title: William Erwin, President
Signature: [Signature]
Date: 3/4/19

Project Title: Wanderist Office & Retail
Data filename: C:\Users\stoccl\Desktop\Wanderist.cck
Report date: 03/04/19
Page 2 of 11

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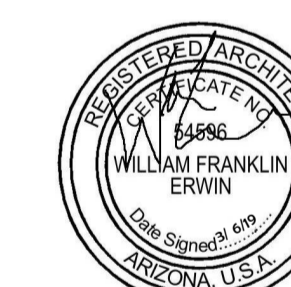
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SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE
-	PRE-APP MTG	10.10.18
-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19



Expires 6.30.19

Owner: JONATHAN PITT
Proj. Name: WANDERIST OFFICE & RETAIL

ENVELOPE COMCHECK

Date: 03/06/19

A002

Scale

SELF CERTIFIED BY: [Signature] DATE: 03/06/2019
DONALD ANDREWS CERTIFICATE #45

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- PLANS ARE COMPLETE.
- THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

KIVA #18-1372
SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36

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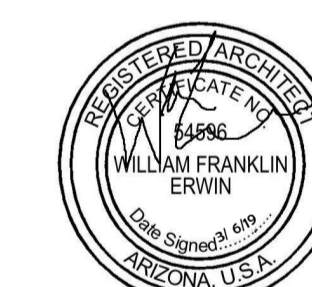
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-	CITY SUBMITTAL	03.06.19



Expires 6.30.19

Owner JONATHAN PITT
 Proj. Name WANDERIST OFFICE & RETAIL

SITE PLAN

Date 03/06/19

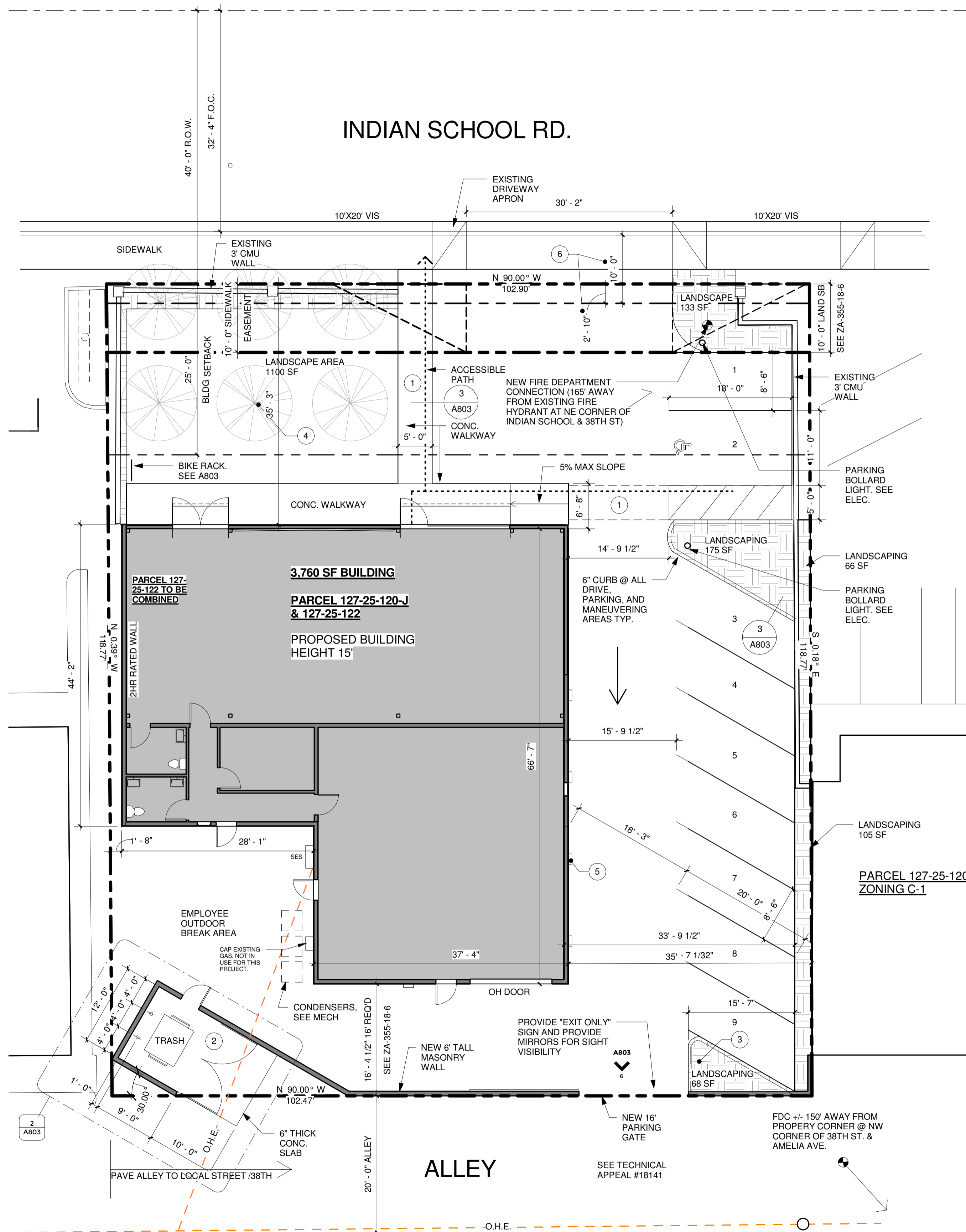
A100

Scale As indicated

OK TO LOG IN
 Site Planning Division, Planning and Development Department

SITE - Anthony Chattley 602-534-0155 7 March 2019
 Approved By _____ Date _____
 030720219145441
 P&D Tracking Numbers

Route to: No Review _____ Site
 Traffic Civil _____ Fire
 Zoning _____ Design Review _____



SITE PLAN KEYNOTES

- ACCESSIBLE ROUTE. MAX 1:20 SLOPE (5%). ALL SURFACES MUST BE FIRM, STABLE, & SLIP RESISTANT. CLEAR WIDTH 36". MAXIMUM 1/4" VERTICAL EDGE. CHANGES IN LEVEL 1/4" TO 1/2" MUST BE BEVELED.
- TRASH ENCLOSURE PER COP STANDARD DETAIL. MINIMUM NET ENCLOSURE OPENING OF 12" PER BIN. PROVIDE A 3'-0" PEDESTRIAN ACCESS GATE. BIN ENCLOSURES SHALL HAVE (2) 4" DIA. 6" TALL STEEL SAFETY POSTS INSTALLED AT THE BACK OF THE ENCLOSURE
- POST LEFT TURN ONLY SIGN PER VARIANCE STIPULATIONS.
- TREES IN PARKING LOT SHALL BE A MIN. OF 5' WIDE 507TAB A.I.I.A.6.1.2
- WALL MOUNTED PARKING LOT LIGHTING. SHALL NOT EXCEED 15' IN HEIGHT W/IN 150' OF RESIDENTIAL DISTRICT.
- DEDICATE A 10' SIDEWALK EASEMENT ALONG E. INDIAN SCHOOL ROAD (SECTION 31-91)

CIVIL NOTES:

- SITE DISTURBANCE (REMOVING THE BASE) WILL BE 2,000 SF OR LESS AND EXISTING F.F. WILL REMAIN UNCHANGED THEREFORE NO G&D IS REQUIRED.

ZA-355-18-6:

- VARIANCE REQUESTS:**
- VARIANCE TO REDUCE THE REQUIRED REAR YARD SETBACK (SOUTH) TO 16'. MIN. 50' REQ'D.
 - VARIANCE TO REDUCE THE REQUIRED REAR YARD LANDSCAPE SETBACK (SOUTH) TO 0'. MIN. 10' REQ'D.
 - VARIANCE TO REDUCE THE REQUIRED FRONT YARD LANDSCAPE SETBACK (NORTH) TO 10' AVERAGE 25' REQ'D.
 - VARIANCE TO REDUCE PARKING AREA LANDSCAPING TO 8%. MIN. 10% PARKING AREA LANDSCAPING REQ'D.
 - VARIANCE TO REDUCE PARKING TO 10 SPACES. MIN. 11 REQ'D.
 - VARIANCE TO ALLOW ALLEY MANUEVERING.

VARIANCE STIPULATIONS:

- 1,2,3,4, & 5 APPROVED WITH THE FOLLOWING STIPULATIONS:
 1.) THE NEW REPLACEMENT STRUCTURE SHALL NOT EXCEED 3,760 SF AND MUST BE CONFINED ENTIRELY WITHIN THE EXISTING FOOTINGS AND CONCRETE SLAB. THERE SHALL BE NO ADDITIONS OR OTHER PERMANENT STRUCTURES ON THE SITE.
 2.) THE REAR OF THE PROPERTY ALONG THE ALLEY SHALL BE FULLY FENCED WITH MASONRY OR OTHER SOLID MATERIAL TO PREVENT ANY OFF-SITE VEHICLE MANUEVERING AT THE REAR OF THE BUILDING.
 3.) A GATE MAY BE INSTALLED TO THE ALLEY FOR PARKING EGRESS (PER 702 E.I.C) AND SHALL BE LOCATED WITHIN THE EASTERN 45' OF THE PROPERTY. A LEFT TURN ONLY SIGN SHALL BE POSTED AT THE EXIT TO THE ALLEY.
 4.) THE OWNER/APPLICANT MUST APPLY FOR AN APY FOR FINAL PERMITS WITHIN 6 MONTHS.

CITY OF PHOENIX NOTES

- DEVELOPMENT AND USE OF THIS SITE WILL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES.
- ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND.
- ANY LIGHTING WILL BE PLACED SO AS TO DIRECT LIGHT AWAY FROM ADJACENT RESIDENTIAL DISTRICTS AND WILL NOT EXCEED ONE FOOT CANDLE AT THE PROPERTY LINE. NO NOISE, ODOR, OR VIBRATION WILL BE EMITTED AT ANY LEVEL EXCEEDING THE GENERAL LEVEL OF NOISE, ODOR, OR VIBRATION EMITTED BY USES IN THE AREA OUTSIDE OF THE SITE.
- OWNERS OF PROPERTY ADJACENT TO PUBLIC RIGHTS-OF-WAY WILL HAVE THE RESPONSIBILITY FOR MAINTAINING ALL LANDSCAPING LOCATED WITHIN THE RIGHTS-OF-WAY, IN ACCORDANCE WITH APPROVED PLANS.

PROJECT INFO

ADDRESS: 3743 E. INDIAN SCHOOL ROAD
 CONSTRUCTION TYPE: VB
 OCCUPANCY: B & M

PROJECT DESCRIPTION

NEW 3,760 SF T-SHIRT PRINTING PRODUCTION, OFFICE, AND RETAIL BUILDING. STRUCTURE WILL BE BUILT ON EXISTING BUILDING PAD. SEE ZONING CASE ZA-355-18-6.

ZONING DATA

ZONING DISTRICT: C-1
 PARCEL: 127-25-120-J & 127-25-122
 OWNER: JONATHAN PITT
 TYPICAL LOT REQUIREMENTS:
 MAX BUILDING HEIGHT = 56'
 FRONT SETBACK = AVG 25', 20' FOR 50% MAX
 REAR SETBACK = 0' @ C-1
 REAR SETBACK = 25' OR 50' @ R1-6
 INTERIOR SIDE SETBACK = 0'

SEE VARIANCE CASE ZA-355-18-6 FOR MODIFIED SETBACKS AND REQUIREMENTS

LOT COVERAGE

MAX LOT COVERAGE PER ZONING = 50%
 TOTAL LOT AREA = 12,194 SF
 NEW BUILDING = 3,760 SF
 TOTAL = 3,760 SF

LOT COVERAGE = 32% (LESS THAN 50%)

AREAS (NET)

PRODUCTION AREA = 1,326 SF
 OFFICE = 129 SF
 RETAIL = 1,825 SF
 BATHROOM = 118 SF
 HALLWAY = 112 SF
 TOTAL = 3,510 SF

PARKING

PRODUCTION AREA = 1 SPACE PER 1.5 PRODUCTION WORKERS
 OFFICE = 1 PER 300SF
 RETAIL = 1 PER 300SF

PARKING CALCULATION:

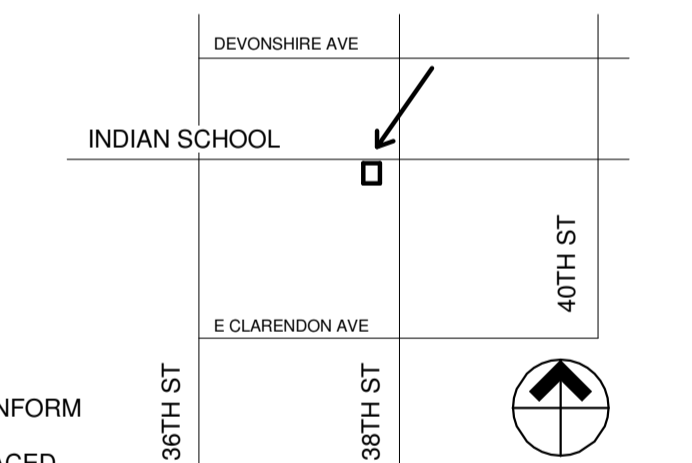
PRODUCTION AREA = 1 EMPLOYEES = 1 SPACES
 OFFICE & RETAIL = 2,337 SF / 300 = 7.79 SPACES
 TOTAL = 9 SPACES

PRODUCTION AREA 8'-6" X 18' = 1 SPACES
 OFFICE & RETAIL 8'-6" X 18' = 8 SPACES (1 of 6 ADA)

LANDSCAPE AREA

PARKING AREA = 4,910 SF
 PARKING AREA LANDSCAPE = 414 SF
 PARKING AREA LANDSCAPE REQ'D = 8% PER ZA-355-18-6
 PARKING AREA LANDSCAPE PROVIDED = 8.4%

VICINITY MAP



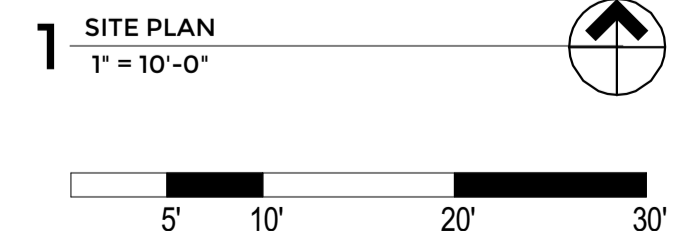
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SELF CERTIFIED BY: DONALD ANDREWS DATE: 03/06/2019 CERTIFICATE #45

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KIVA #18-1372
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 PAPP #1806619
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 QS Q16-36



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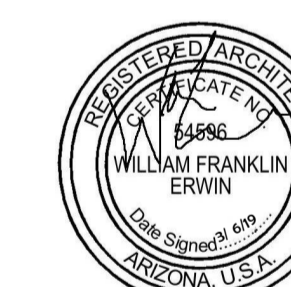
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Expires 6.30.19

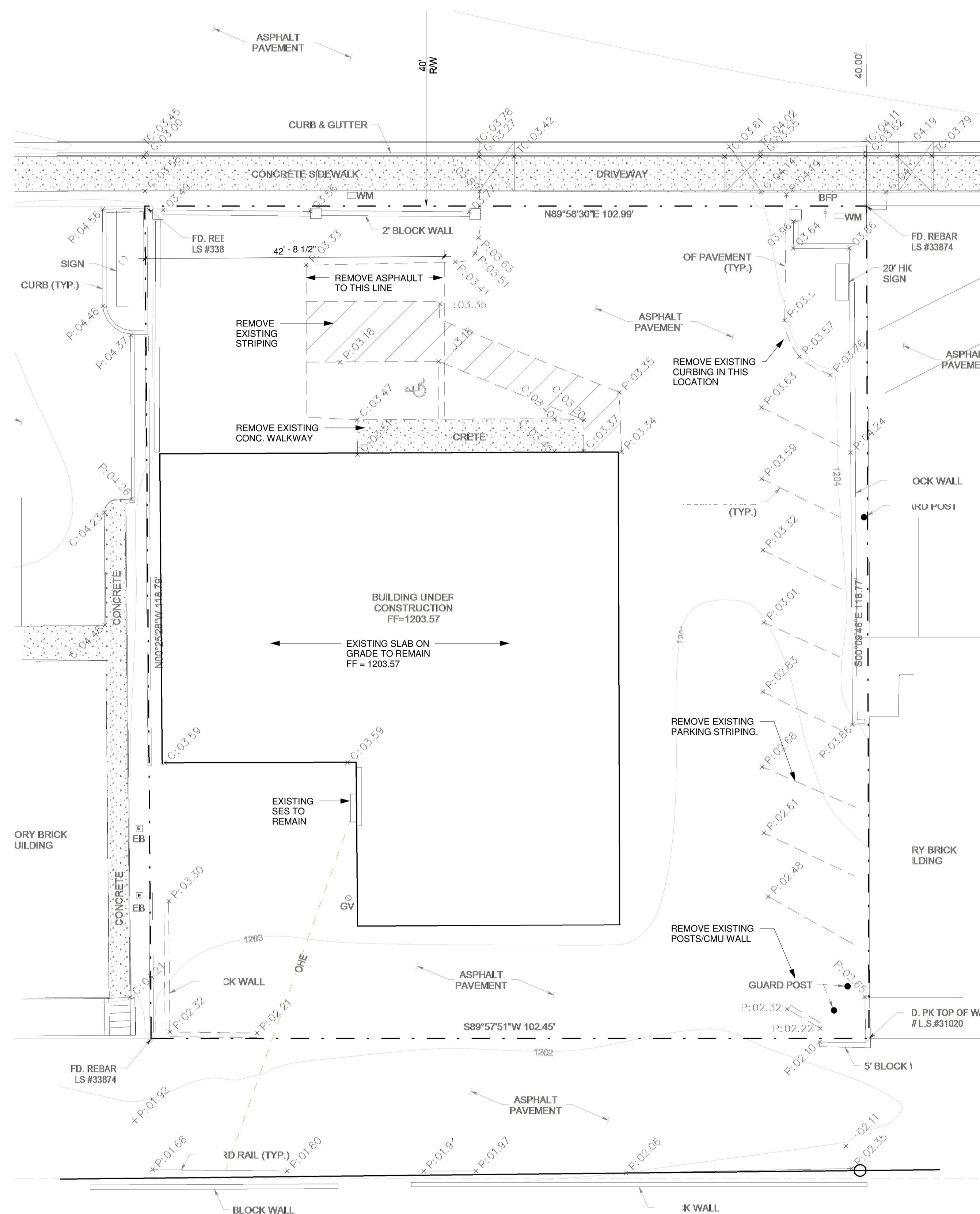
Owner JONATHAN PITT
Proj. Name WANDERIST OFFICE & RETAIL

SITE DEMO PLAN

Date 03/06/19

A101

Scale 1" = 10'-0"

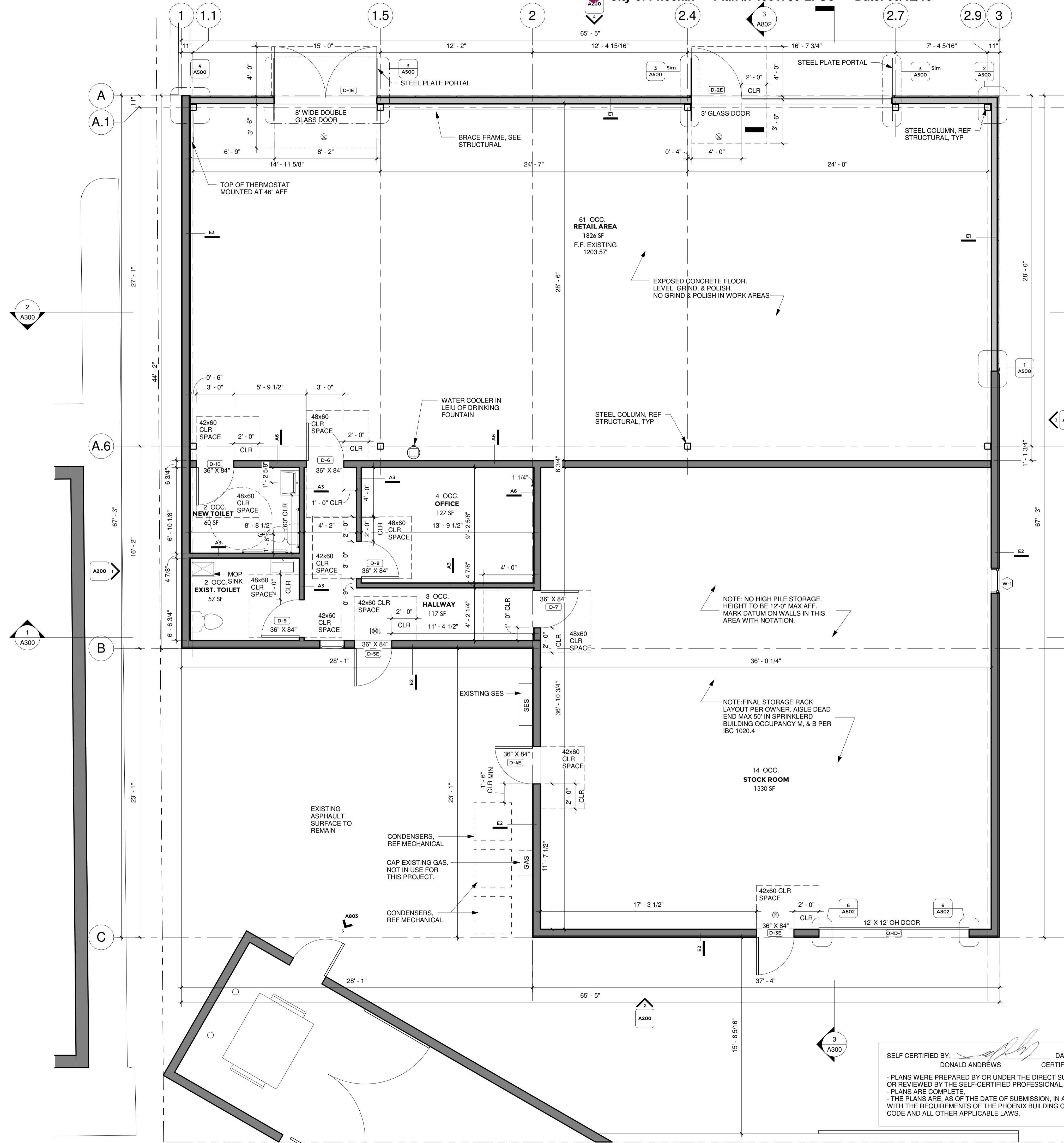


1 EXISTING SITE PLAN
1" = 10'-0"

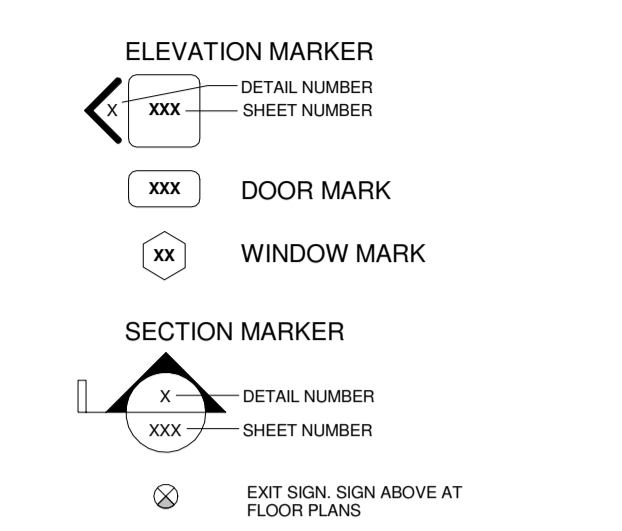
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SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36



SYMBOL LEGEND



WALL TYPES

E1 SEE SHEET A103 ASSEMBLY TYPE INFORMATION

FLOOR PLAN NOTES

- G.C. TO VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWINGS AT THE JOB SITE AND NOTIFY DESIGNER OF ANY OMISSIONS, DISCREPANCIES, AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- G.C. TO SUBMIT ALL SUBCONTRACTOR SHOP DRAWINGS AND SUBMITTALS TO DESIGNER AND/OR OWNER FOR APPROVAL BEFORE FABRICATION OR INSTALLATION OF ANY ITEMS. REQUIRED SHOP DRAWING SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, MILLWORK, H.V.A.C., PLUMBING, ELECTRICAL, GLASS AND GLAZING, ALL ITEMS ON FINISH LEGEND, DOOR HARDWARE, 2X2 WALL FINISH SAMPLE, PAINTING AND WALL COVERING. DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS UNLESS PRIOR WRITTEN PERMISSION HAS BEEN OBTAINED FROM THE DESIGNER AND/OR OWNER. DRAWINGS OR PORTIONS OF DRAWINGS USED FOR SUBMITTALS WILL BE REJECTED AND RETURNED TO THE G.C.
- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DETAILS GOVERN OVER SMALL SCALE.
- G.C. TO COORDINATE AND INSTALL ALL APPLIANCES AS SHOWN IN DOCUMENTS. COORDINATE LOCATION, SIZE AND ALL REQUIRED PLUMBING AND ELECTRICAL CONNECTIONS. VERIFY SELECTION W/ OWNER/DESIGNER.
- U.N.O. INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF FINISH.
- REFER TO DOOR SCHEDULE FOR DOOR TYPES AND HARDWARE INFORMATION.
- U.N.O. OR WHEN CLEARANCE DOES NOT PERMIT, EDGE OF DOOR TO BE LOCATED 5" OFF PERPENDICULAR PTN. MOVE BACK TO BACK OR NESTED STUDS AT BOTH SIDES OF ALL NEW JAMB LOCATIONS.
- ALL BLOCKING TO COMPLY WITH APPLICABLE BUILDING AND FIRE ODE REQUIREMENTS. PROVIDE BLOCKING IN PARTITIONS AS REQUIRED O SECURE CABINETS, MARKER BOARDS, ETC. TO PARTITIONS.
- ALL MATERIALS AND COMPONENTS OF FIRE-RATED ASSEMBLIES SHALL BE APPROVED BY U.L. OR OTHER RECOGNIZED STANDARD FOR USE IN SUCH ASSEMBLIES.
- PATCH ANY EXISTING WALLS, PARTITIONS, COLUMNS, CONCRETE FLOORS, ETC. AS REQUIRED TO RECEIVE NEW FINISH.
- REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION
- ISOLATE CONTACT BETWEEN DISSIMILAR METALS
- PROVIDE CAULKING, SEALANT, & OTHER WEATHERPROOFING AT PENETRATIONS IN WALLS, CLGS, ROOF, & FLOORS FOR PLUMBING, ELEC. & OTHER OPENINGS IN BLDG. ENVELOPE.
- THE WORD 'ALIGN' AS USED IN THESE DOCUMENTS SUPERCEDES ANY DIMENSIONAL INFORMATION INDICATED. IF DISCREPANCIES OCCUR, NOTIFY ARCHITECT.
- THE WORD 'PROVIDE' AS USED IN THESE DOCUMENTS MEANS FURNISH AND INSTALL.
- THE WORD 'CLEAR' AND 'CLR' AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE DESIGNER. CLEAR DIMENSIONS ARE TYPICALLY TO FINISH FACE OF MAJOR SURFACE. COORDINATE REQUIREMENTS FOR BASE BOARD OR OTHER PROTRUSIONS.
- THE WORD 'MAXIMUM' AND 'MAX' AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN THAT SHOWN WITHOUT APPROVAL OF THE DESIGNER.
- THE WORD 'MINIMUM' AND 'MIN' AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT APPROVAL OF THE DESIGNER.
- THE WORD 'TYPICAL' AND 'TYP' AS USED IN THESE DOCUMENTS SHALL MEAN THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
- FIRE RISER TO BE COORDINATED UNDER SEPARATE SUBMITTAL / FIRELINE PLAN.

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SHEET ISSUE/REV:

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-	PRE-APP MTG	10.10.18
-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19



Owner JONATHAN PITT
 Proj. Name WANDERIST OFFICE & RETAIL

FLOOR PLAN

Date 03/06/19

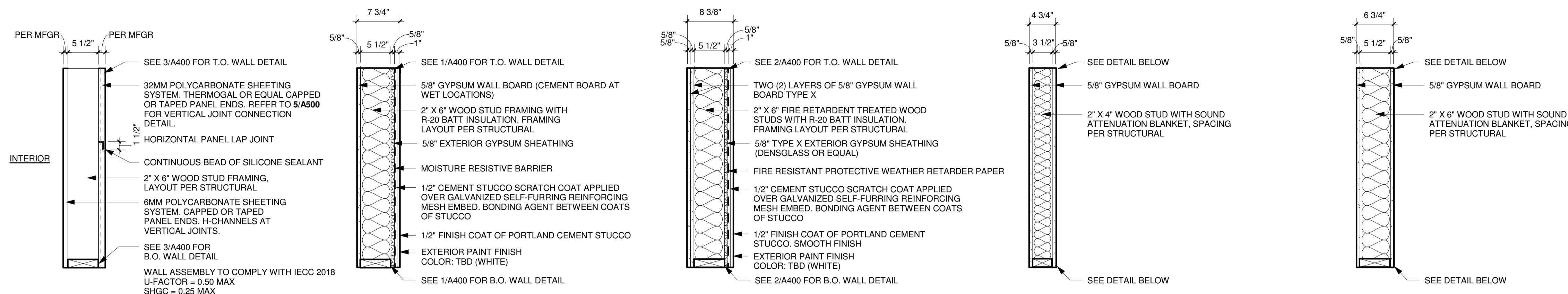
A102

Scale 1/4" = 1'-0"

SELF CERTIFIED BY: DONALD ANDREWS DATE: 03/06/2019
 CERTIFICATE #45993
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 - PLANS ARE COMPLETE.
 - THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

KIVA #18-1372
 SDEV #1800276
 PAPP #1806619
 PRLC
 QS Q16-36

1 LEVEL 1 - DIMENSIONED FLOOR PLAN
 1/4" = 1'-0"



E-1 EXTERIOR WALL

POLYCARBONATE PANEL SYSTEM
 FENESTRATION IS LESS THAN 30% OF EXTERIOR ENVELOPE. SEE CALCULATION BELOW
 U-FACTOR FOR FIXED FENESTRATION IS 0.50 MAX (TABLE C402.4.1).
 SHGC MAX (TABLE C402.4.1):
 0.25 EAST WALL
 0.33 NORTH WALL

E-2 EXTERIOR WALL

NON-RATED EXTERIOR STUCCO WALL
 R-20 MIN PER IECC TABLE C402.1.3
 CLIMATE ZONE 2B

E-3 EXTERIOR WALL

2-HOUR RATED EXTERIOR STUCCO WALL
 FIRE TEST REFERENCE:
 UC 12-21-67, GA WP 84202
 SEE GENERIC ASSEMBLY TYPE INFORMATION BELOW.
 R-20 MIN PER IECC TABLE C402.1.3
 CLIMATE ZONE 2B

A-3 INTERIOR WALL

A-6 INTERIOR WALL

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EXTERIOR WALLS

GA FILE NO. WP 8420

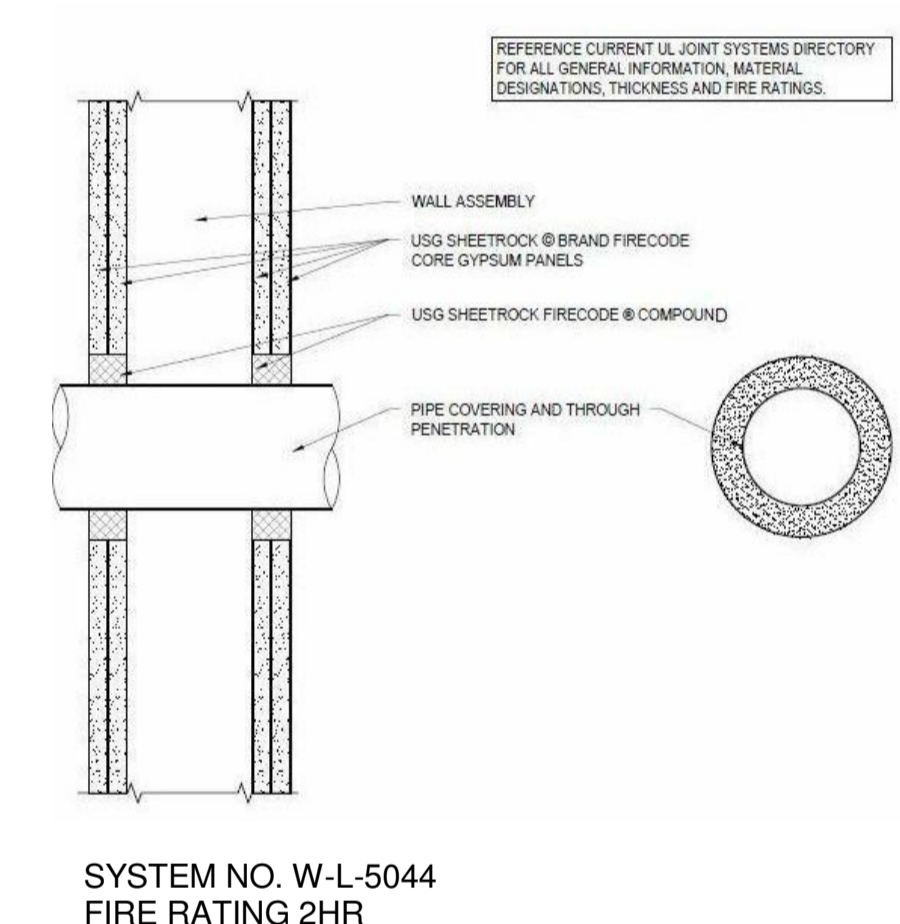
GENERIC

WOOD STUDS, CEMENT STUCCO, WIRE MESH, GYPSUM WALLBOARD

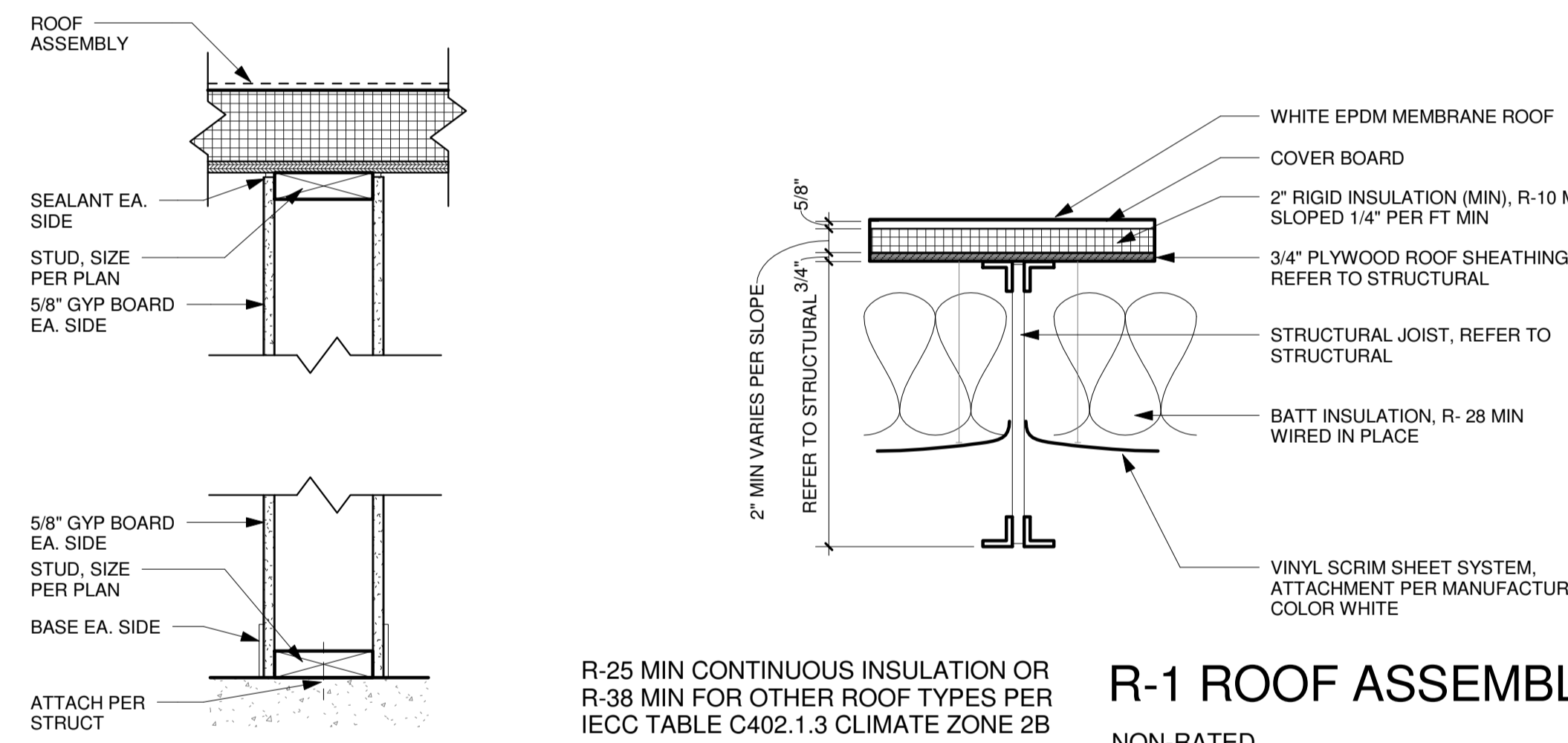
EXTERIOR SIDE: Base layer 5/8" type X gypsum sheathing applied parallel to 2 x 6 fire retardant treated wood studs 16" o.c. with 6d coated nails, 1 7/8" long, 0.0915" shank, 1/4" heads, 12" o.c. and covered with a single layer fire resistant protective weather retarder paper stapled along each edge at 16" o.c. Galvanized self-furring wire mesh applied over sheathing with 8d galvanized roofing nails, 2 3/8" long, 0.113" shank, 9/32" heads, 6" o.c. Cement-stucco applied over wire mesh in two 1/2" thick coats with bonding agent applied between coats.

INTERIOR SIDE: Base layer 5/8" type X gypsum wallboard or gypsum veneer base applied parallel to studs with 6d coated nails, 1 7/8" long, 0.0915" shank, 1/4" heads, 12" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to studs with 8d coated nails, 2 3/8" long, 0.113" shank, 9/32" heads, 8" o.c. at edges and 12" o.c. at intermediate studs. (LOAD-BEARING)

Thickness:
 Fire Test: 8 5/8" UC, 12-21-67



WALL ASSEMBLY TYPES

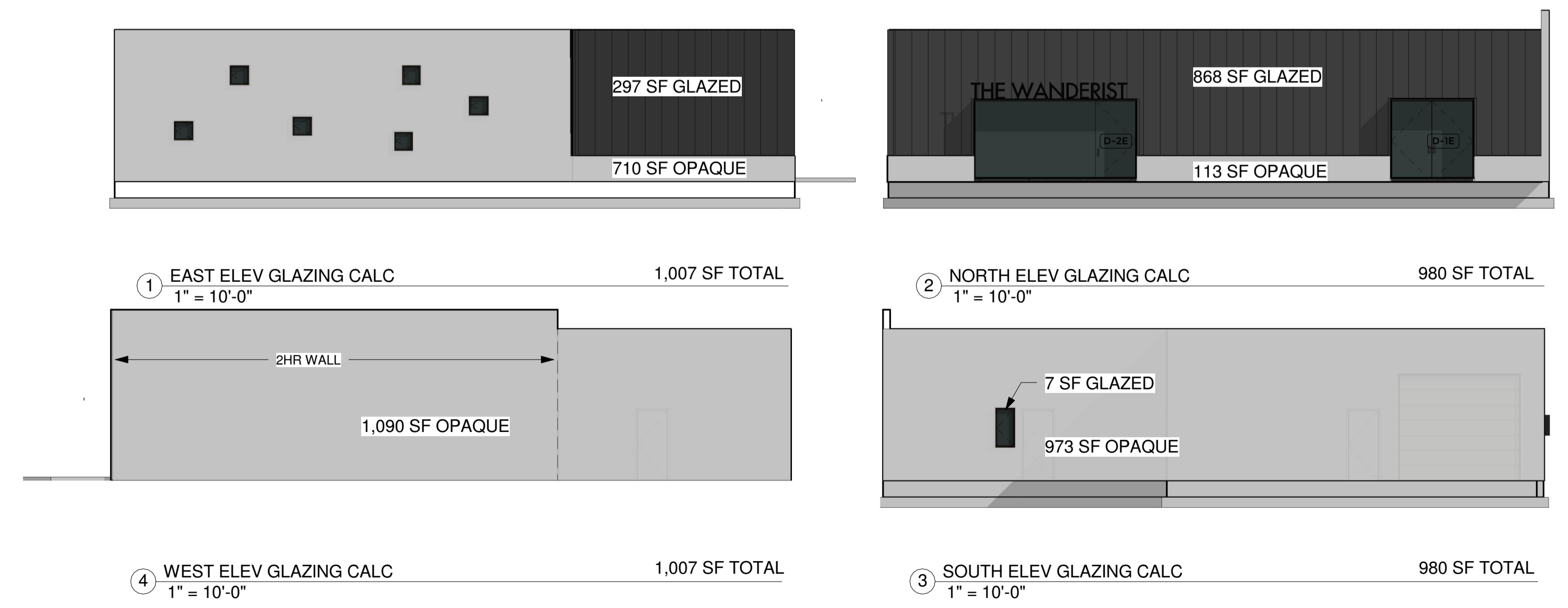


FIRE RATED EXTERIOR WALL ASSEMBLY INFORMATION

WALL PENETRATION DETAIL

TOP & B.O. WALL & INTERIOR PARTITION

ROOF ASSEMBLY



GLAZING CALCULATION FOR IECC C402.4.1 REQUIRES THAT VERTICAL FENESTRATION AREA IS NO MORE THAN 30% MAX OF TOTAL GROSS ABOVE GRADE WALL AREA.
 TOTAL BUILDING WALL SF = 4,058 SF
 2,886 SF OPAQUE (71.1%)
 1,172 SF GLAZED (28.9%)
REQUIREMENT SATISFIED AS GLAZED/ VERTICAL FENESTRATION IS LESS THAN 30%.

SELF CERTIFIED BY: *[Signature]* DATE: 03/06/2019
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KIVA #18-1372
 SDEV #1800276
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 PRLC
 QS Q16-36

Expires 6.30.19

Owner JONATHAN PITT
 Proj. Name WANDERIST OFFICE & RETAIL

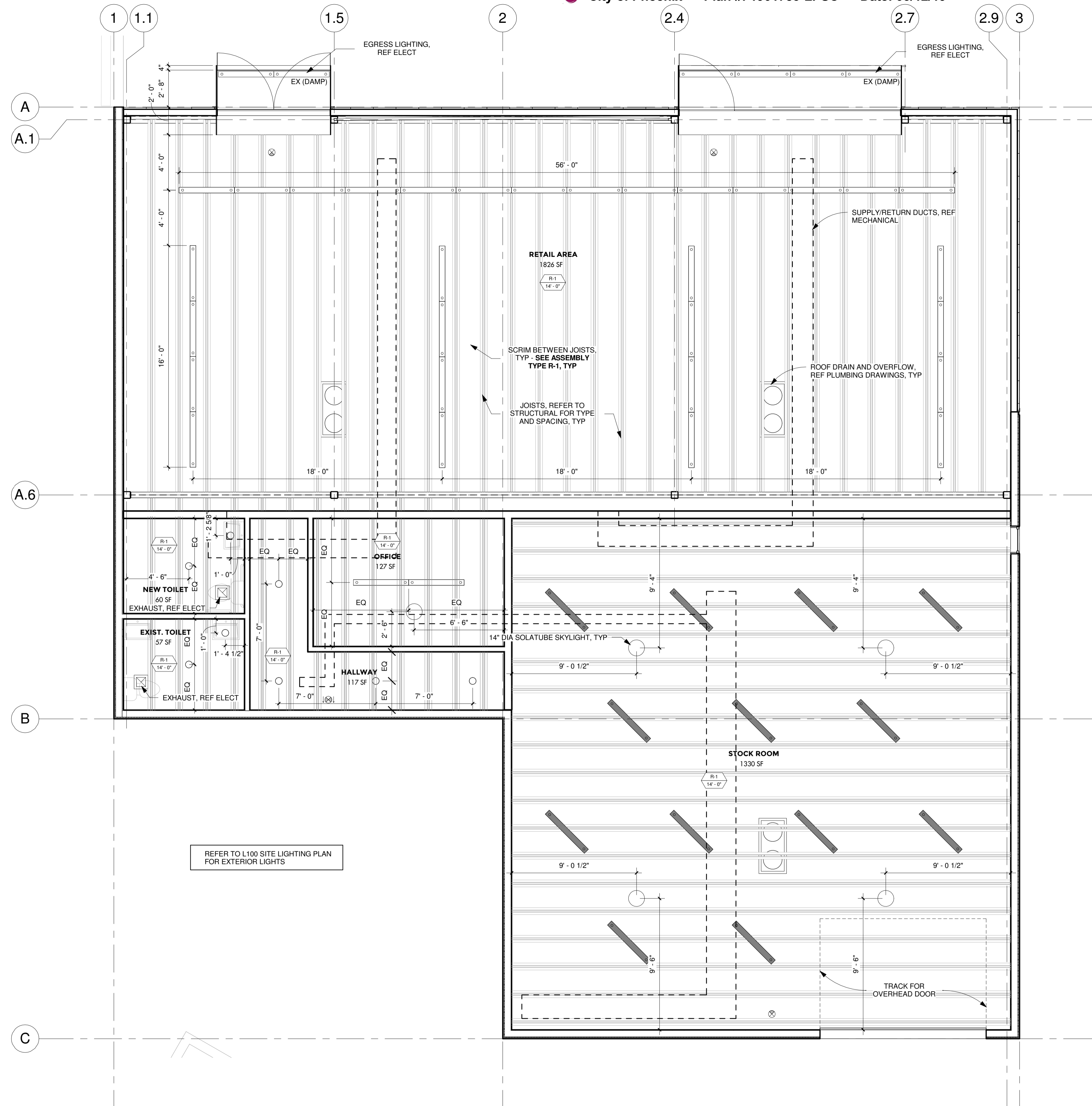
ASSEMBLY TYPE INFORMATION

Date 03/06/19

A103

Scale As indicated

GLAZING CALCULATION



RCP LEGEND

- TYPE A REFER TO L101 FOR INFORMATION
 - TYPE B REFER TO L101 FOR INFORMATION
 - ▭ TYPE C REFER TO L101 FOR INFORMATION
 - ☒ EXHAUST FAN
 - ☒ SUPPLY REGISTER
 - ☒ RETURN REGISTER
 - ⊙ SMOKE DETECTOR
 - WL FIXTURE RATED FOR WET LOCATION
 - EX FIXTURE RATED FOR EXTERIOR USE
 - ⊗ EXIT SIGN, SIGN ABOVE AT FLOOR PLANS
- FIRE SPRINKLER UNDER SEPARATE PERMIT

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Owner JONATHAN PITT
 Proj. Name WANDERIST OFFICE & RETAIL

REFLECTED CEILING PLAN

Date 03/06/19

A110

Scale 1/4" = 1'-0"

1 LEVEL 1 - RCP NEW
 1/4" = 1'-0"

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Wattage Per Lamp	Light Loss Factor	Wattage
○	A	32	Fluorescent Hummelton Inc	ARC R D D 35 R XX S E1	LED LINEAR DIRECT/INDIRECT HINGE (R/A) LIGHTING PER PLAN	200 White LED	1	ARC-DD35 PHELEINAVY.ies	3956	0.91	34.31
○	B	8	Uthman Lighting	LONG CYL 35115 L06AR LSS PH	6IN LONG CYLINDER, 3500K, L502LN, B0C2L, CLEAR, SENS: SPECIAL REFLECTOR	LED	1	LONG_CYL_35_15_L06AR AR_LSS.ies	1526	0.91	20.48
○	C	14	Uthman Lighting	CLX L48 4800LM SEP RFL PWOLT 5210 35K B0C2L	CLX LED Linear 48" 4,000 lumens, Standard Efficiency, Lens (upset), Round diffuse lens, General distribution, PWOLT, 0-10V dimming, 3500 CCT, 60 CRI	LED	1	CLX_L48_4800LM SEP_RFL_PWOLT_5210_35K_B0C2L RE.ies	3765	0.91	27.58

FOR MORE INFORMATION, REF L101

SELF CERTIFIED BY: *[Signature]* DATE: 03/06/2019
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 CODE AND ALL OTHER APPLICABLE LAWS.

ROOF PLAN NOTES

1. REFER TO A103 FOR ROOF ASSEMBLY TYPE INFORMATION
2. ROOF SLOPE 1/4" PER FOOT MIN.
3. SEE A803 FOR TYP. PLUMBING VENT DETAIL

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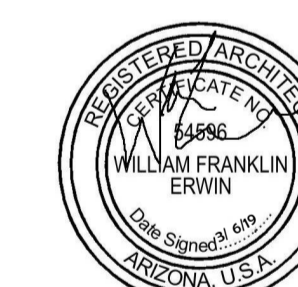
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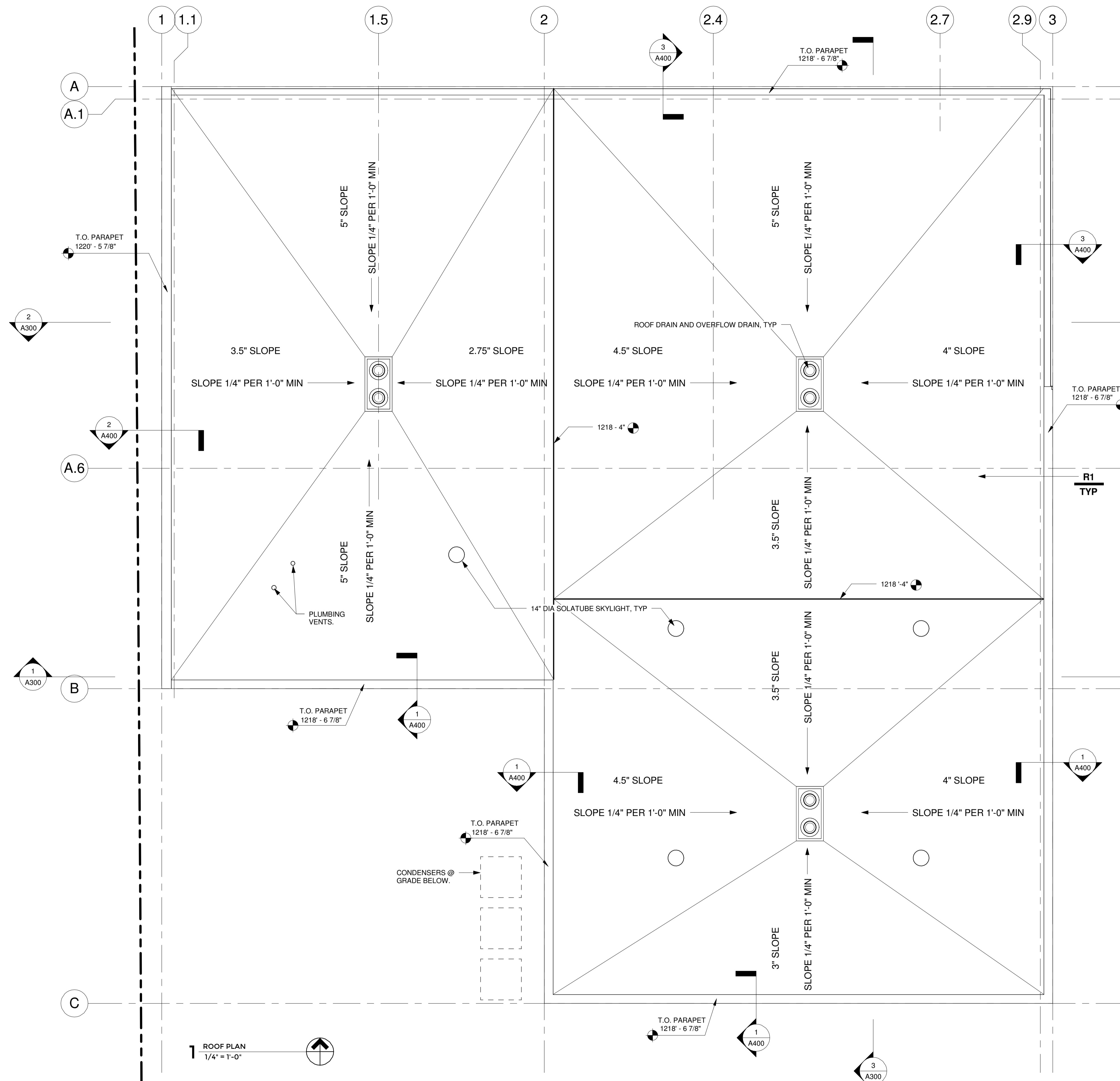
Owner JONATHAN PITT
 Proj. Name WANDERIST OFFICE & RETAIL

ROOF PLAN

Date 03/06/19

A120

Scale 1/4" = 1'-0"



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

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KIVA #18-1372
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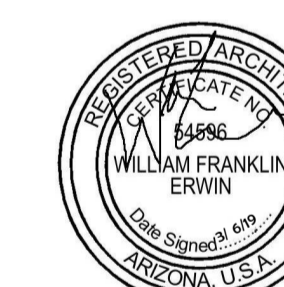
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ELEVATIONS

Date 03/06/19

A200

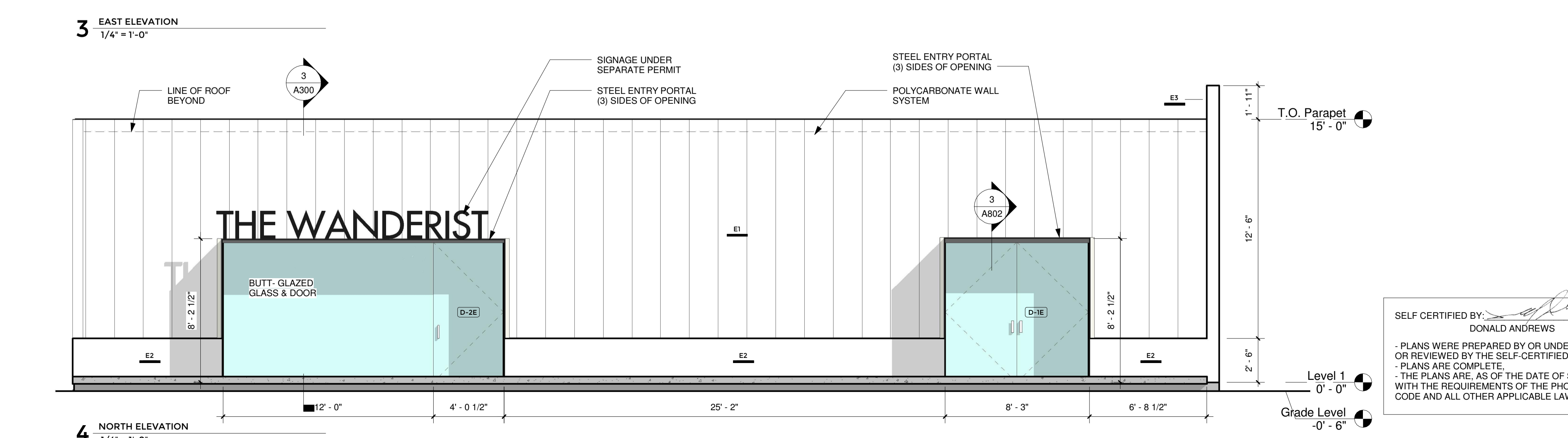
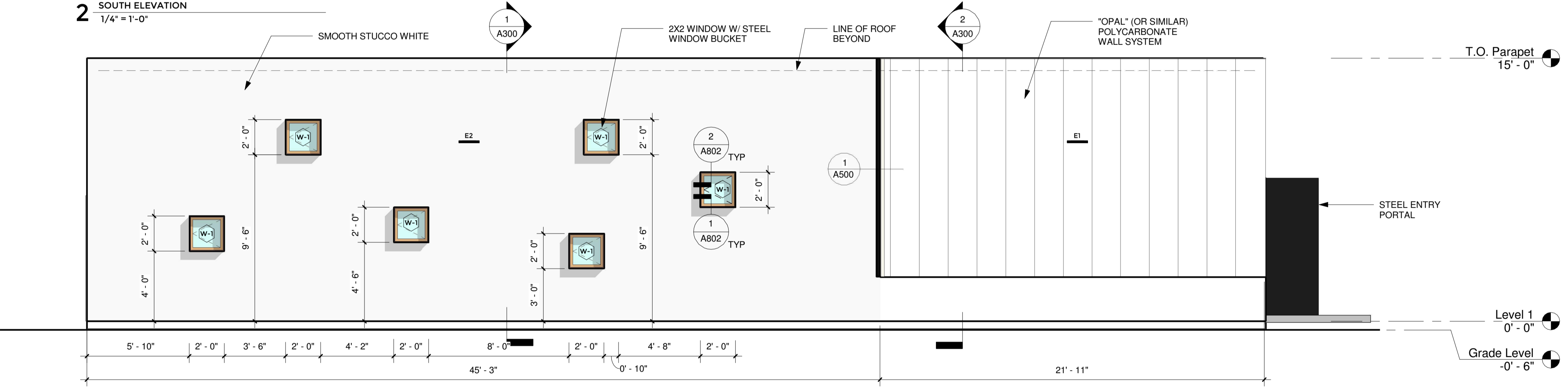
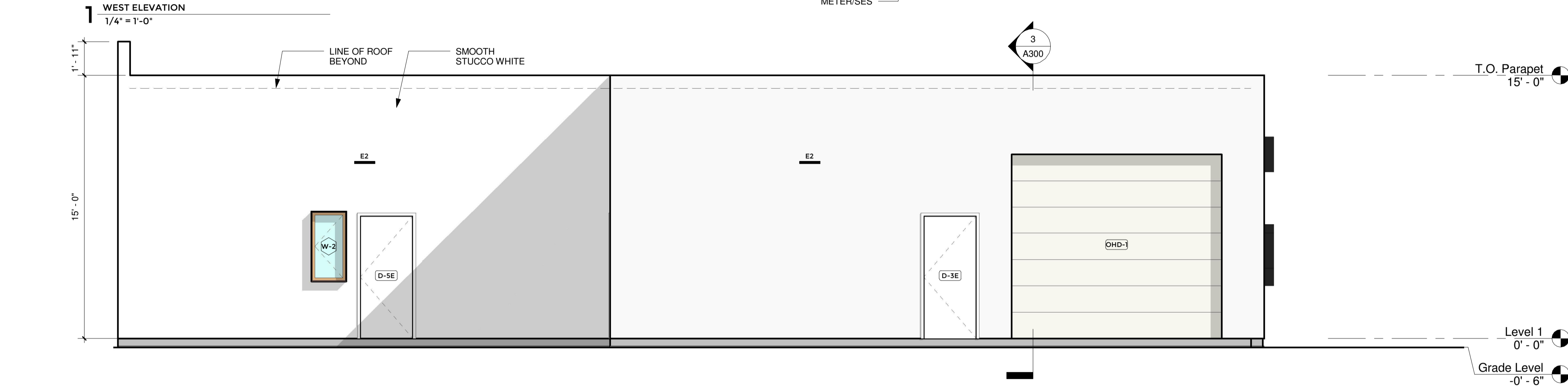
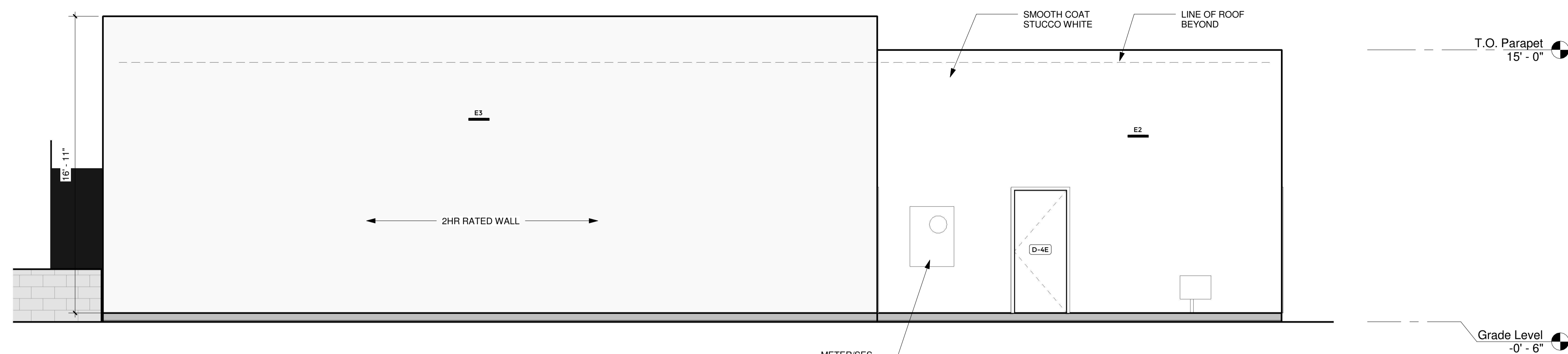
Scale 1/4" = 1'-0"

SYMBOL LEGEND

- ELEVATION MARKER**
 ◁ --- DETAIL NUMBER
 XXX --- SHEET NUMBER
- XXX DOOR MARK
 XX WINDOW MARK
- SECTION MARKER**
 X --- DETAIL NUMBER
 XXX --- SHEET NUMBER
- ⊗ EXIT SIGN, SIGN ABOVE AT FLOOR PLANS

WALL TYPES

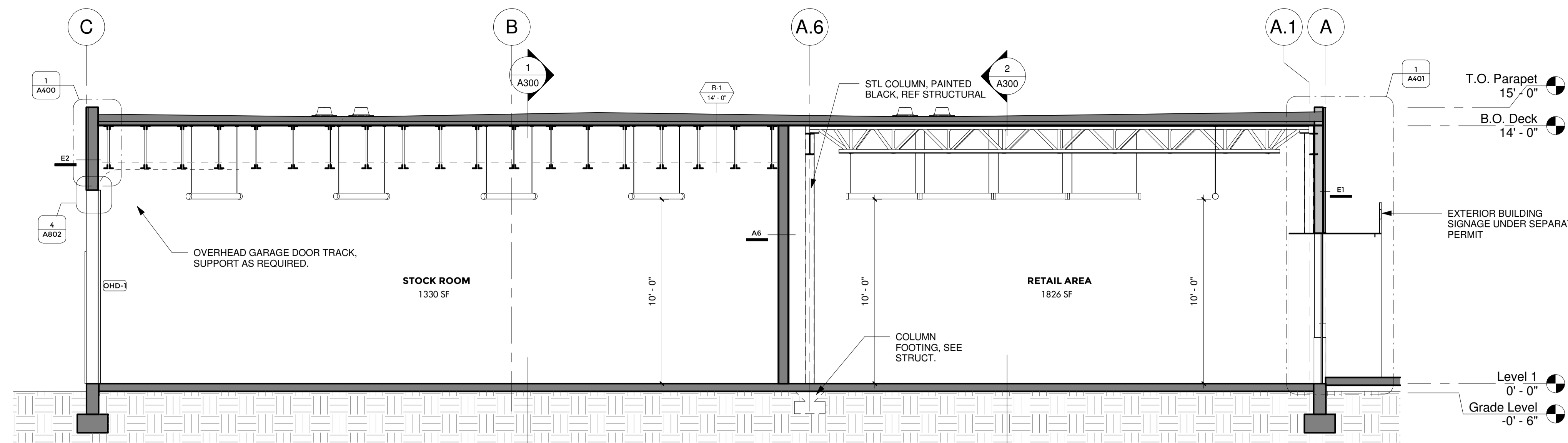
E1 SEE SHEET A103 ASSEMBLY TYPE INFORMATION



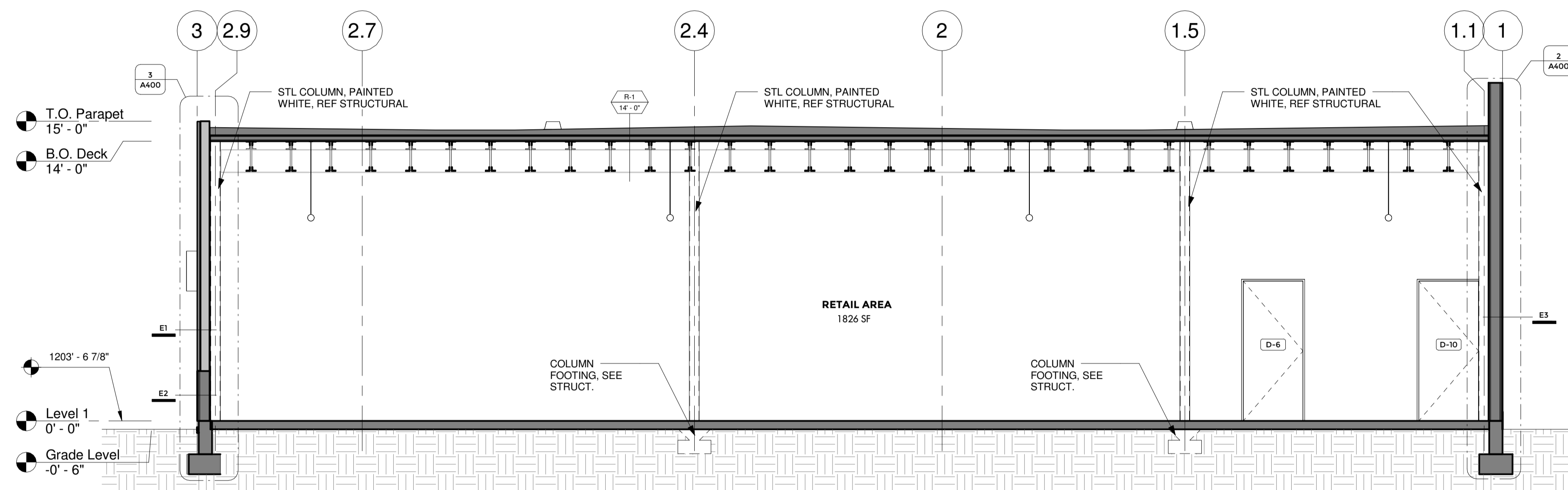
SELF CERTIFIED BY: *[Signature]* DATE: 03/08/2019
 DONALD ANDREWS CERTIFICATE #45

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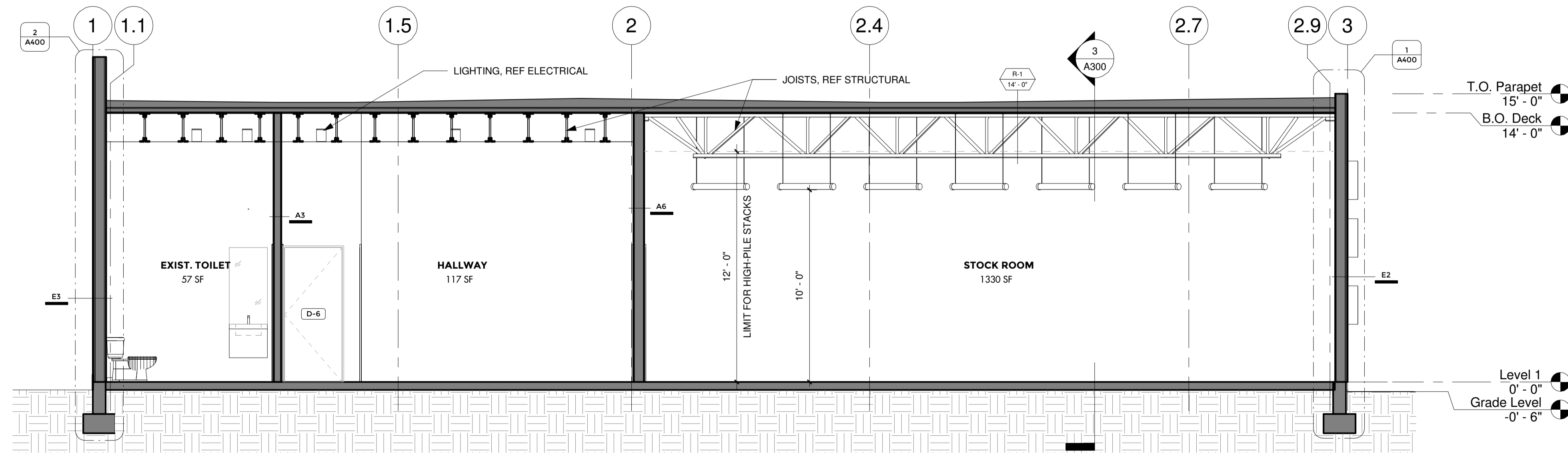
KIVA #18-1372
 SDEV #1800276
 PAPP #1806619
 PRLC
 QS Q16-36



3 BUILDING SECTION 3
1/4" = 1'-0"



2 BUILDING SECTION 2
1/4" = 1'-0"



1 BUILDING SECTION 1
1/4" = 1'-0"

SYMBOL LEGEND

- ELEVATION MARKER
[Symbol] DETAIL NUMBER SHEET NUMBER
- DOOR MARK
[Symbol]
- WINDOW MARK
[Symbol]
- SECTION MARKER
[Symbol] DETAIL NUMBER SHEET NUMBER
- EXIT SIGN, SIGN ABOVE AT FLOOR PLANS
[Symbol]

WALL TYPES

E1 SEE SHEET A103 ASSEMBLY TYPE INFORMATION

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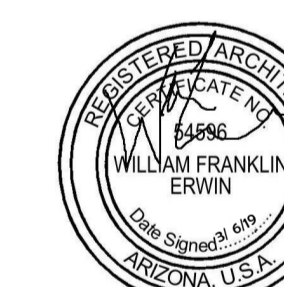
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SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE
-	PRE-APP MTG	10.10.18
-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19



Expires 6.30.19

Owner JONATHAN PITT
Proj. Name WANDERIST OFFICE & RETAIL

BUILDING SECTIONS

Date 03/06/19

A300

Scale 1/4" = 1'-0"

SELF CERTIFIED BY: DONALD ANDREWS DATE: 03/08/2019
CERTIFICATE #45

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SDEV #1800276
PAPP #1806619
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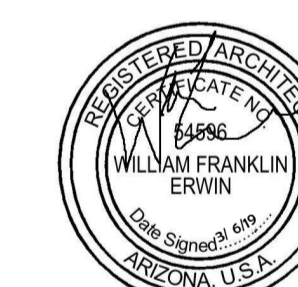
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Owner JONATHAN PITT
Proj. Name WANDERIST OFFICE & RETAIL

SECTION DETAILS

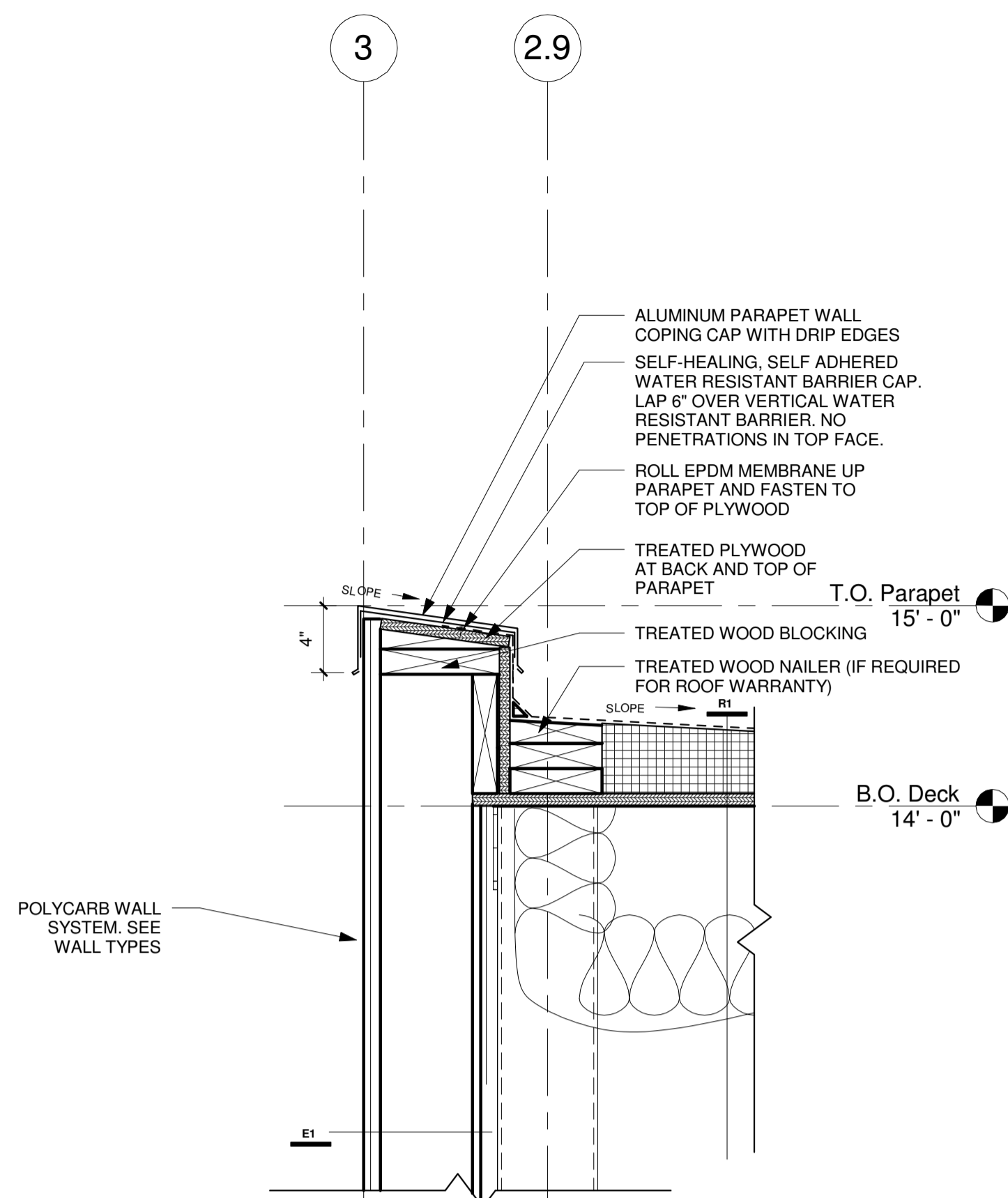
Date 03/06/19

A400

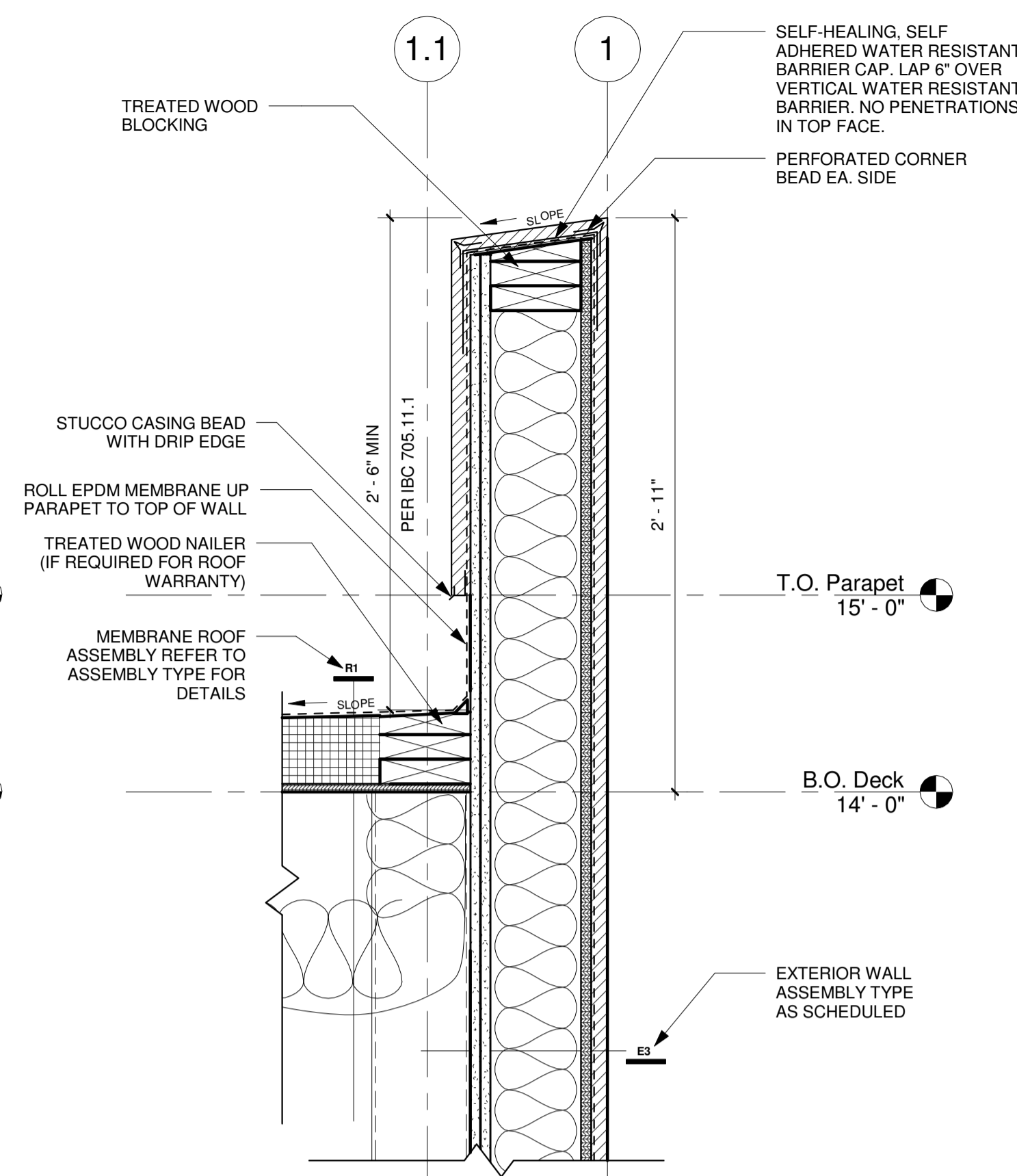
Scale 1 1/2" = 1'-0"

KIVA #18-1372
SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36

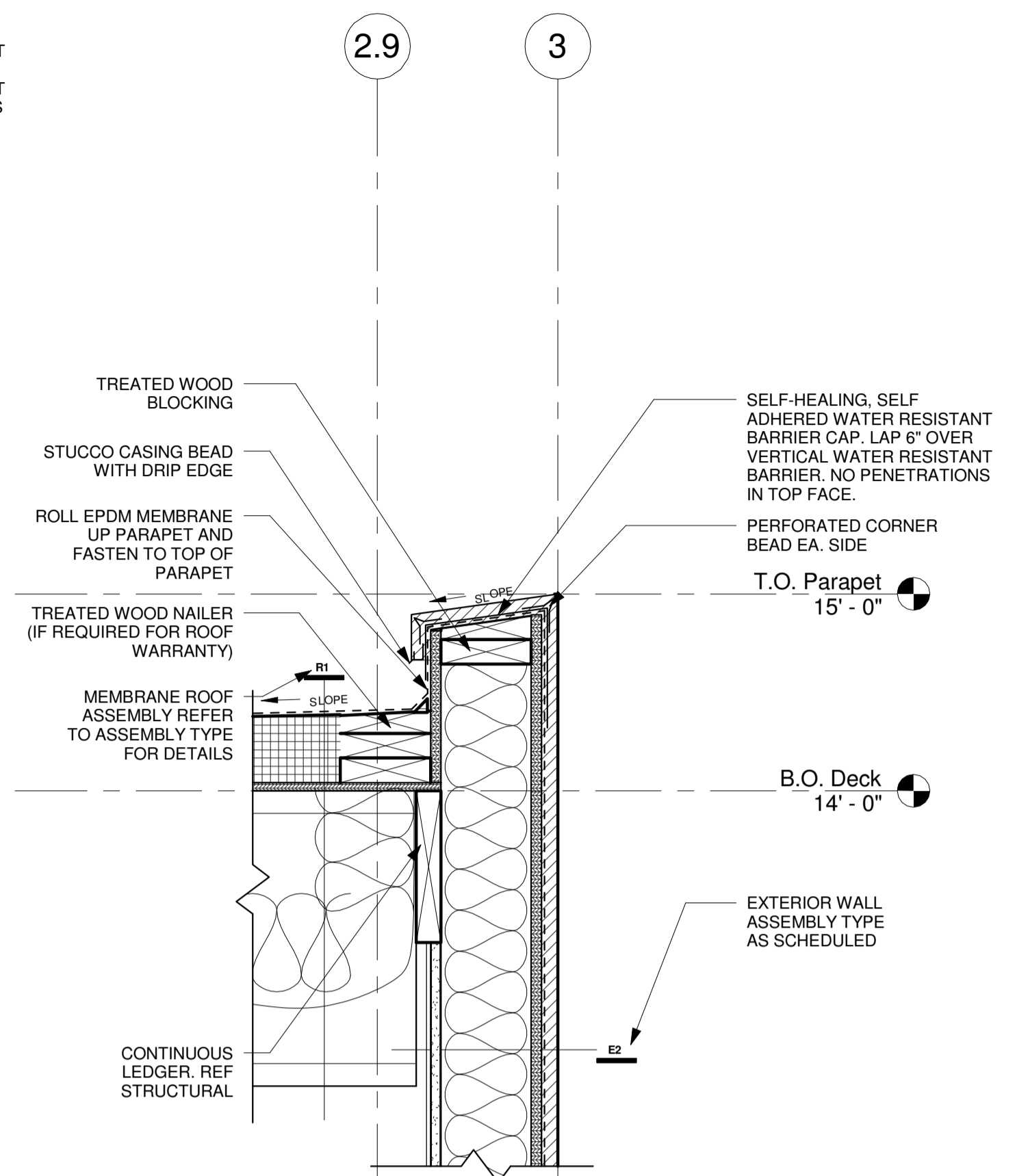
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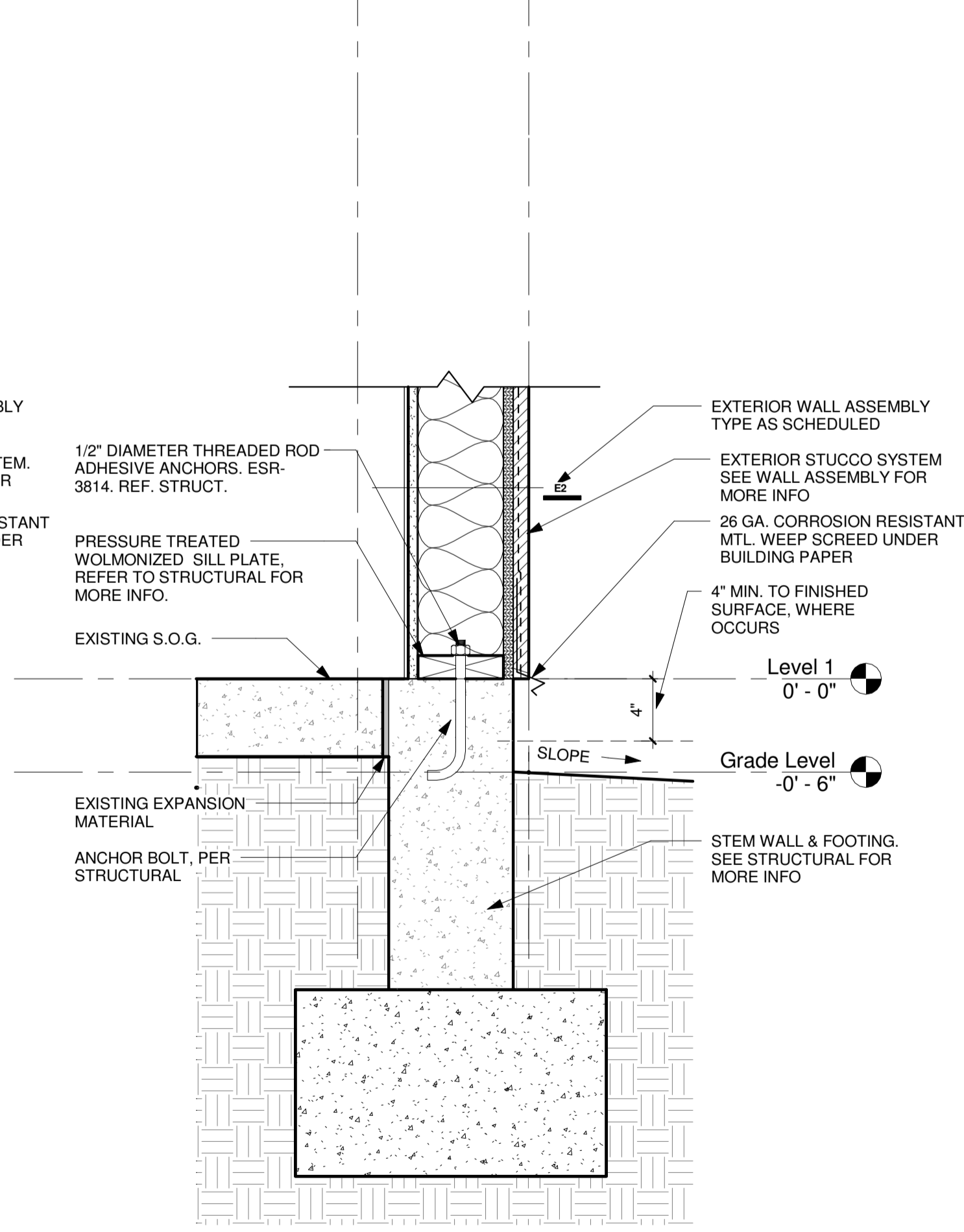
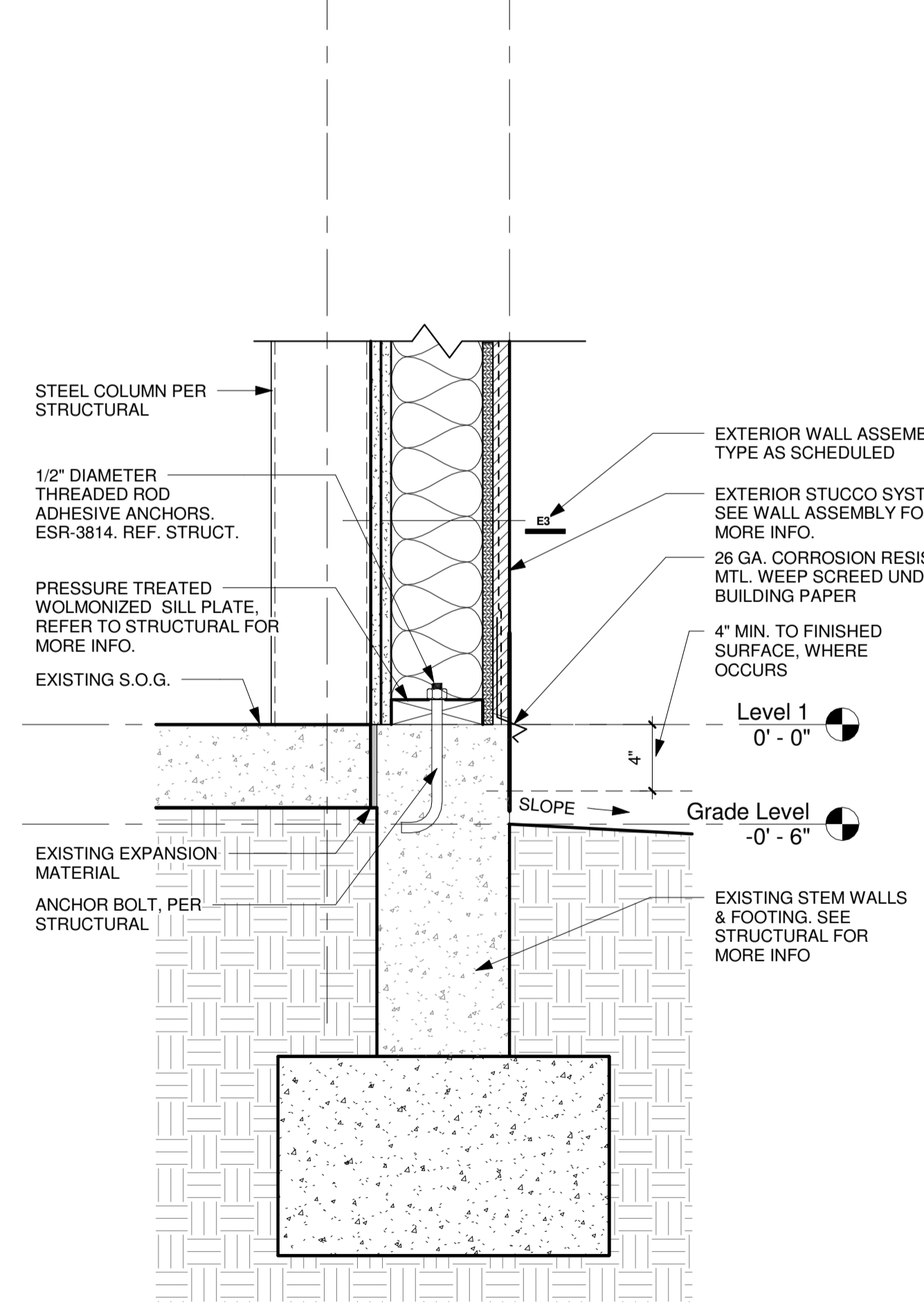
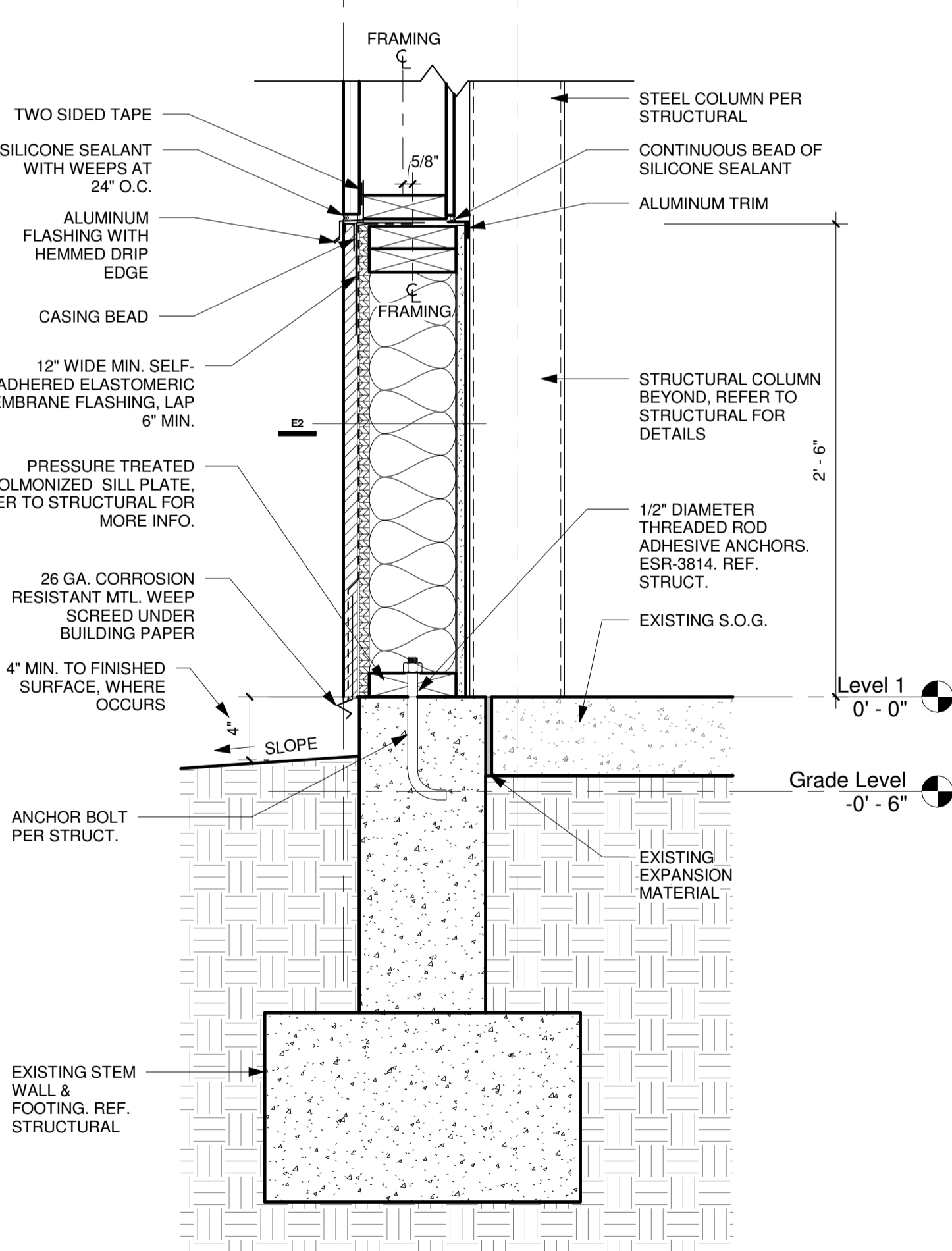
3 SECTION AT POLYCARBONATE WALL
1 1/2" = 1'-0"



1.1 SECTION AT RATED STUCCO WALL
1 1/2" = 1'-0"



2.9 SECTION AT NON-RATED STUCCO WALL
1 1/2" = 1'-0"



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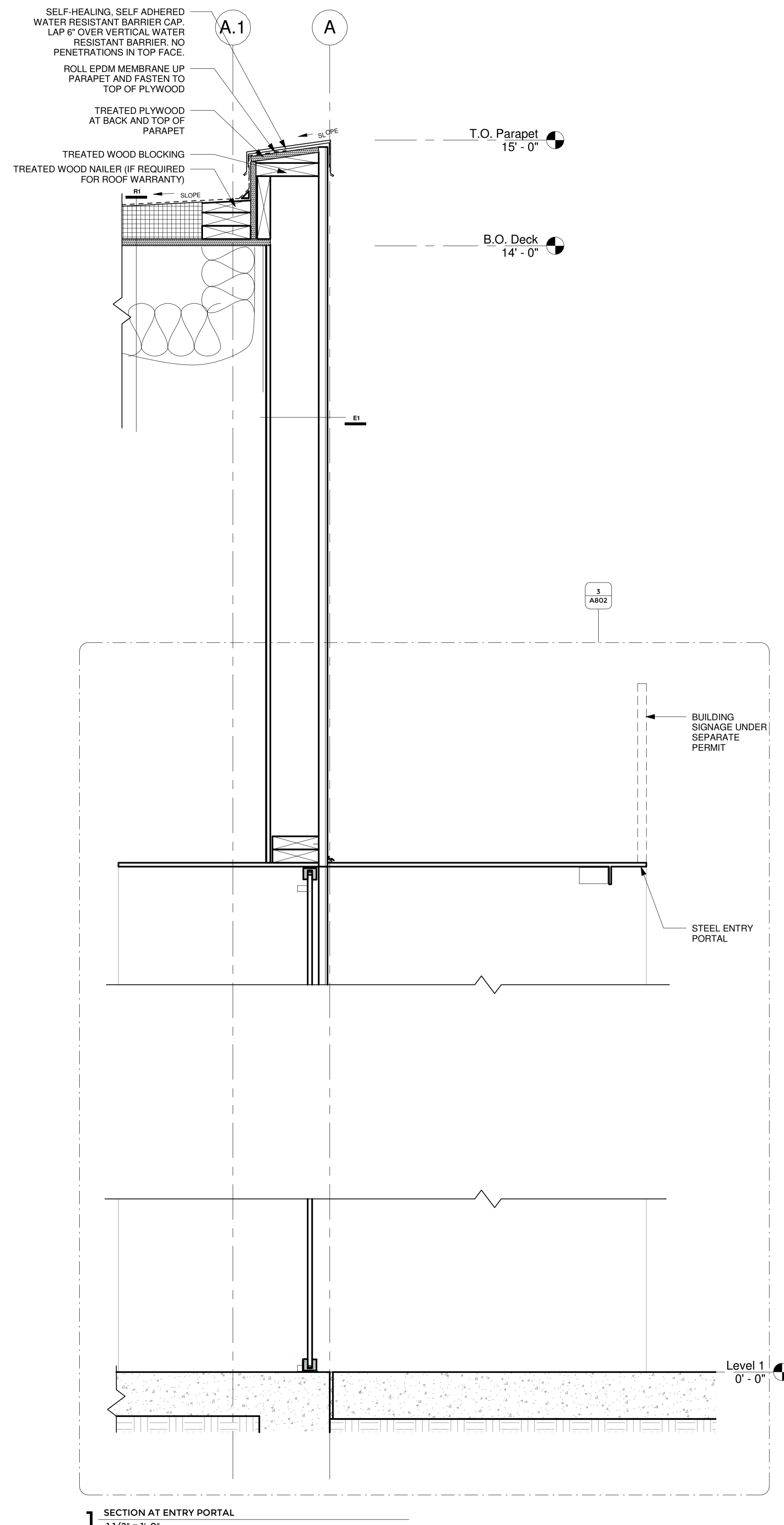
Owner JONATHAN PITT
 Proj. Name WANDERIST OFFICE & RETAIL

SECTION DETAILS

Date 03/06/19

A401

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KIVA #18-1372
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 PRLC
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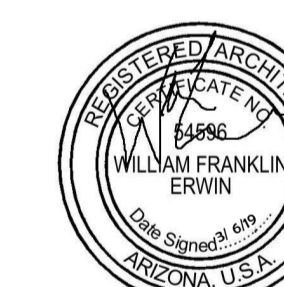
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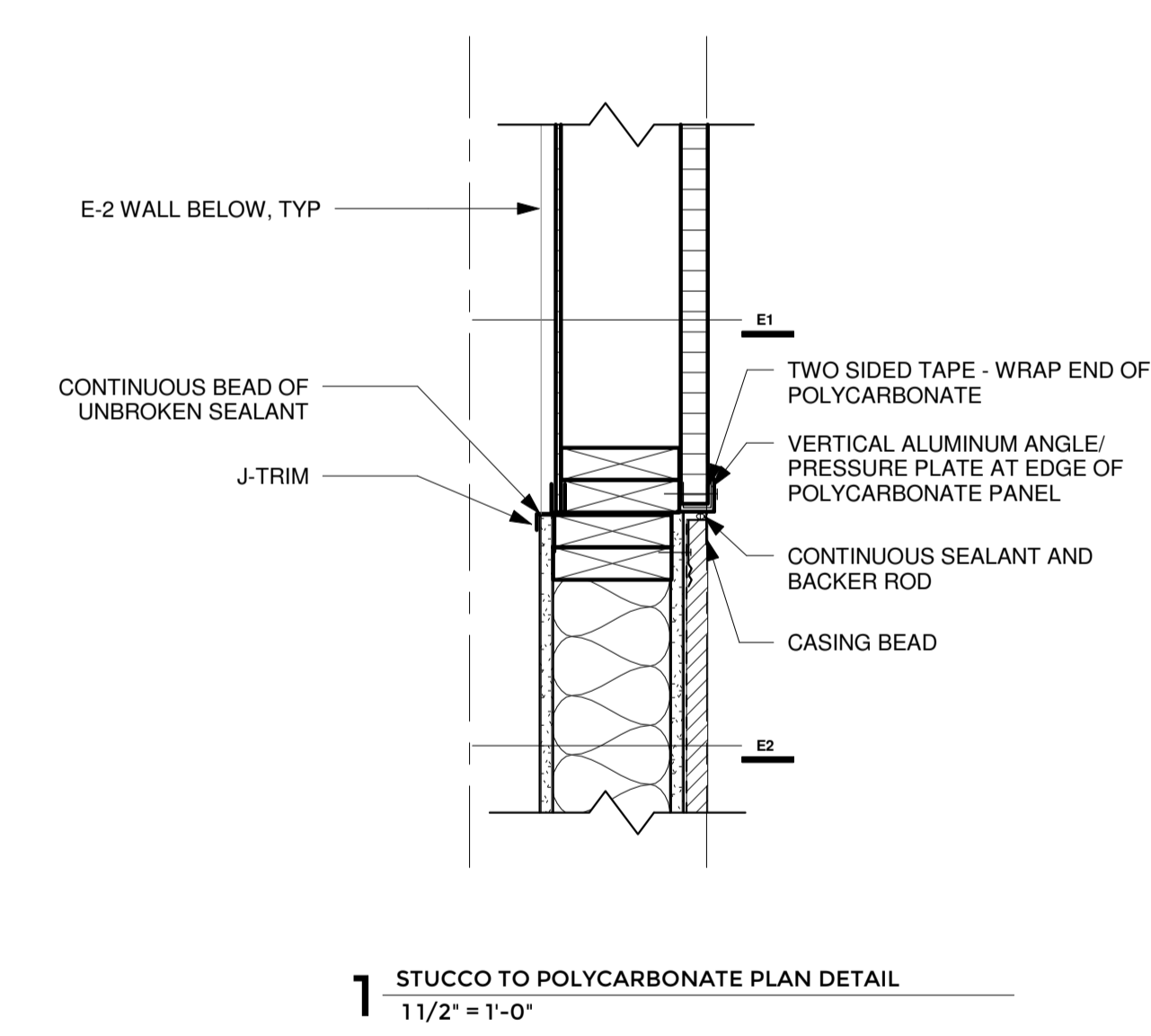
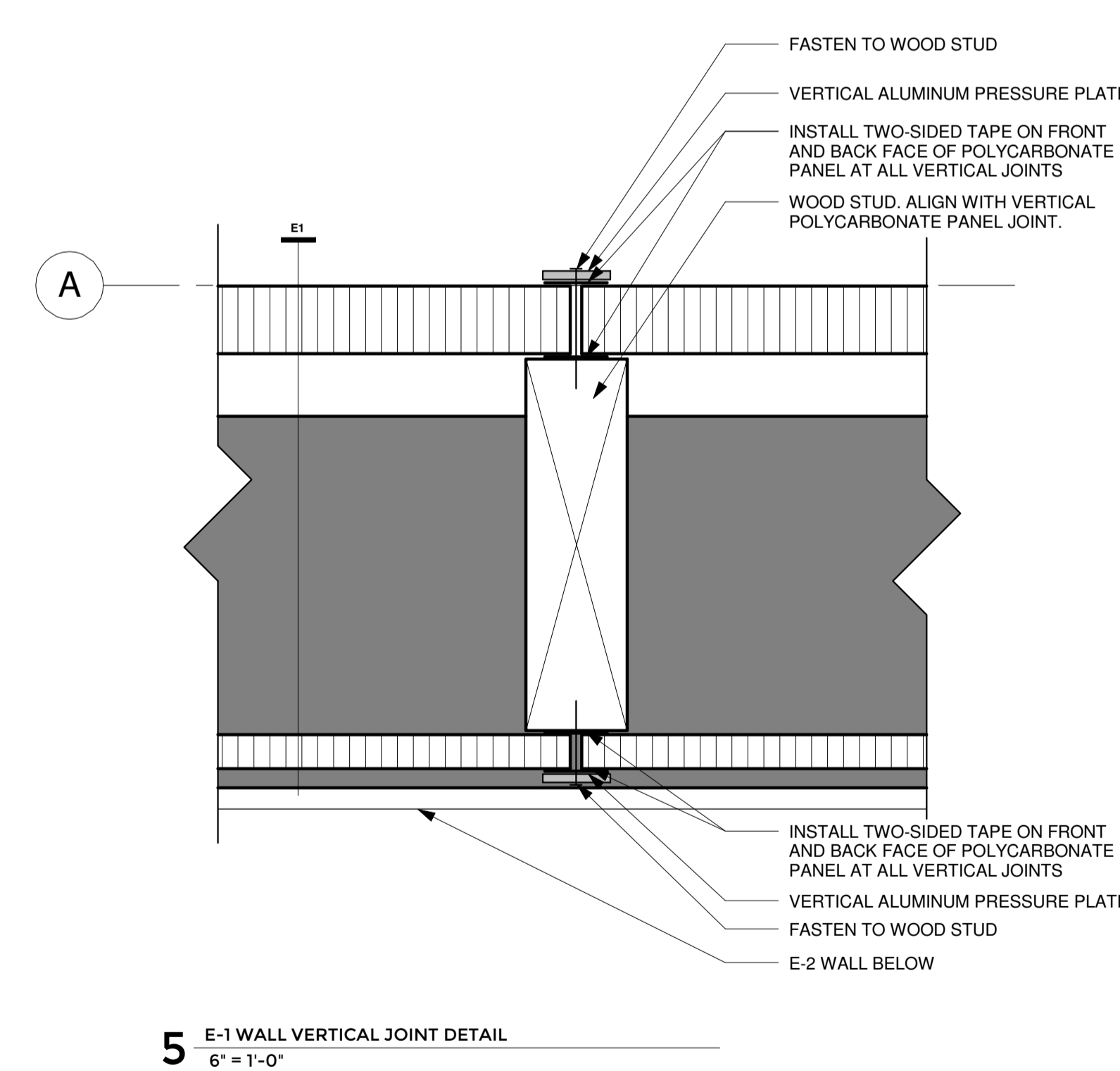
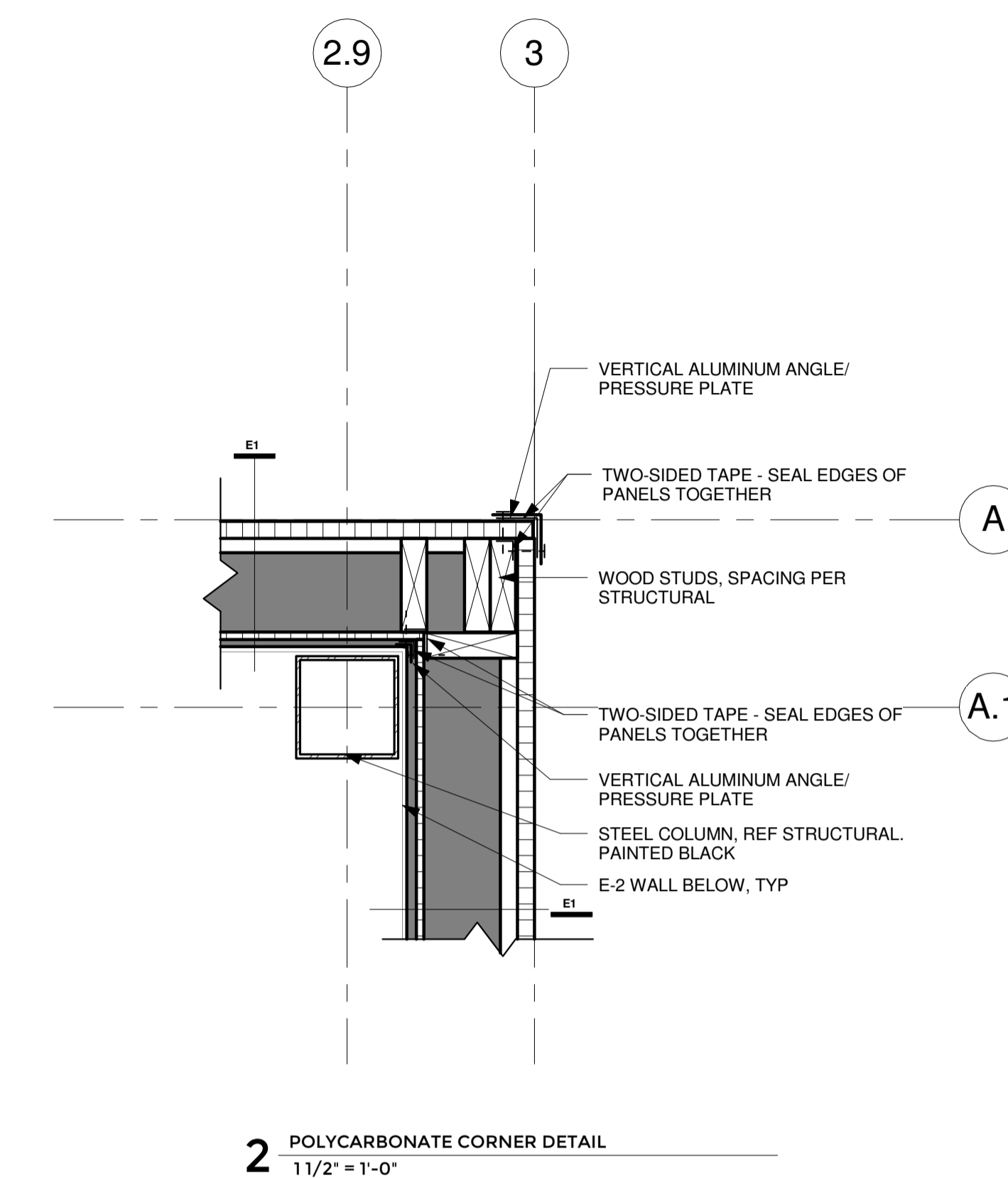
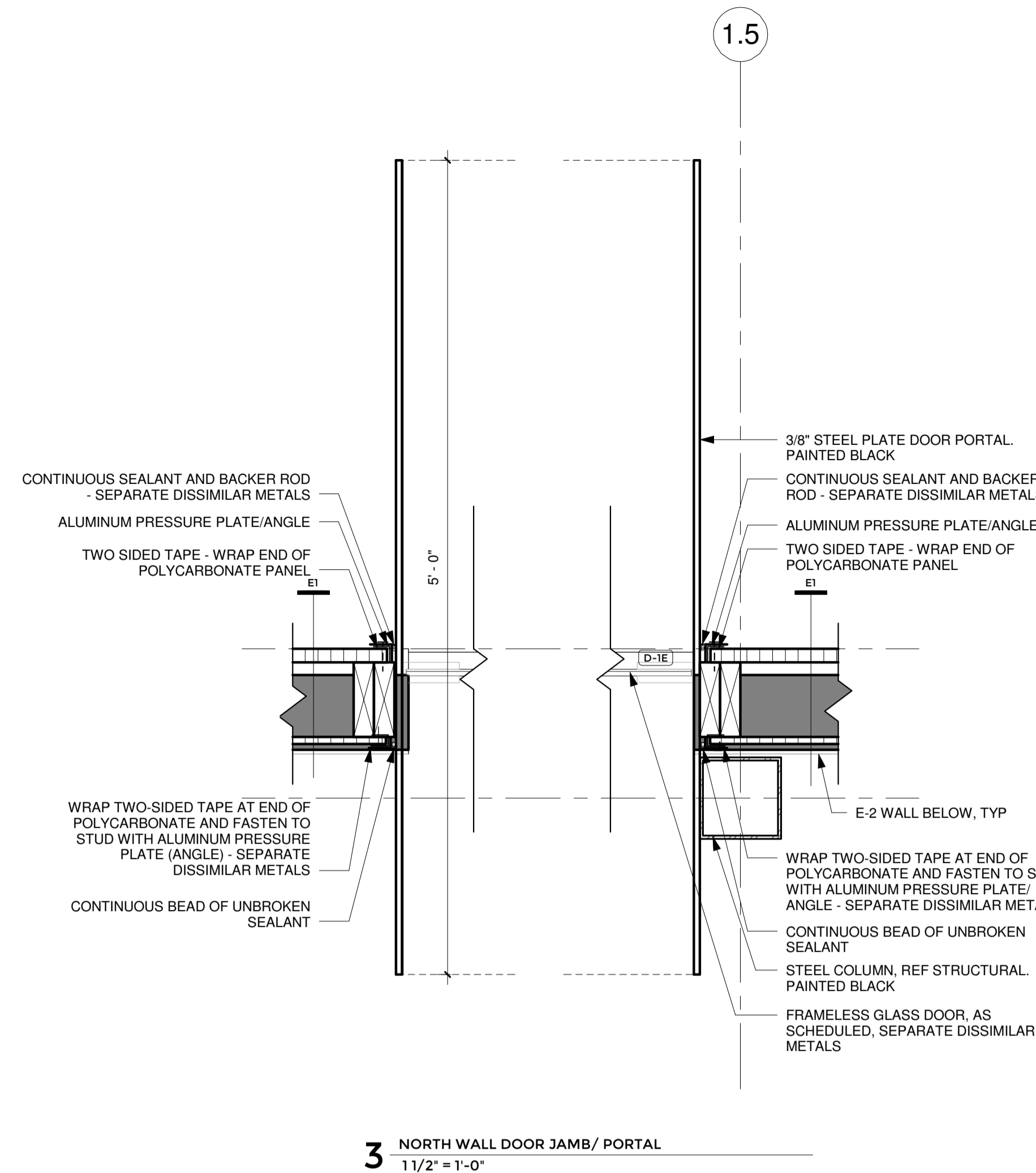
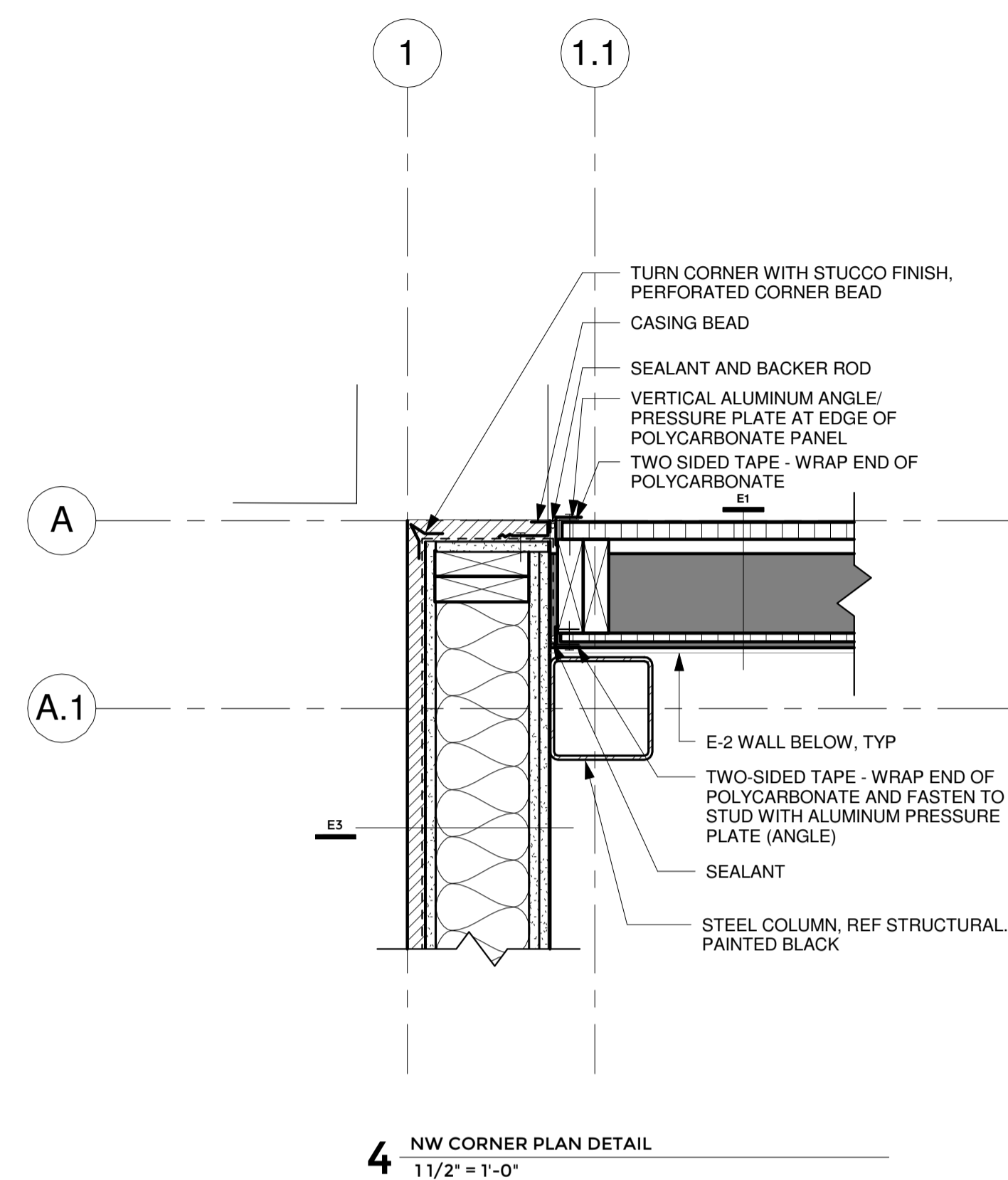
Owner JONATHAN PITT
Proj. Name WANDERIST OFFICE & RETAIL

PLAN DETAILS

Date 03/06/19

A500

Scale As indicated

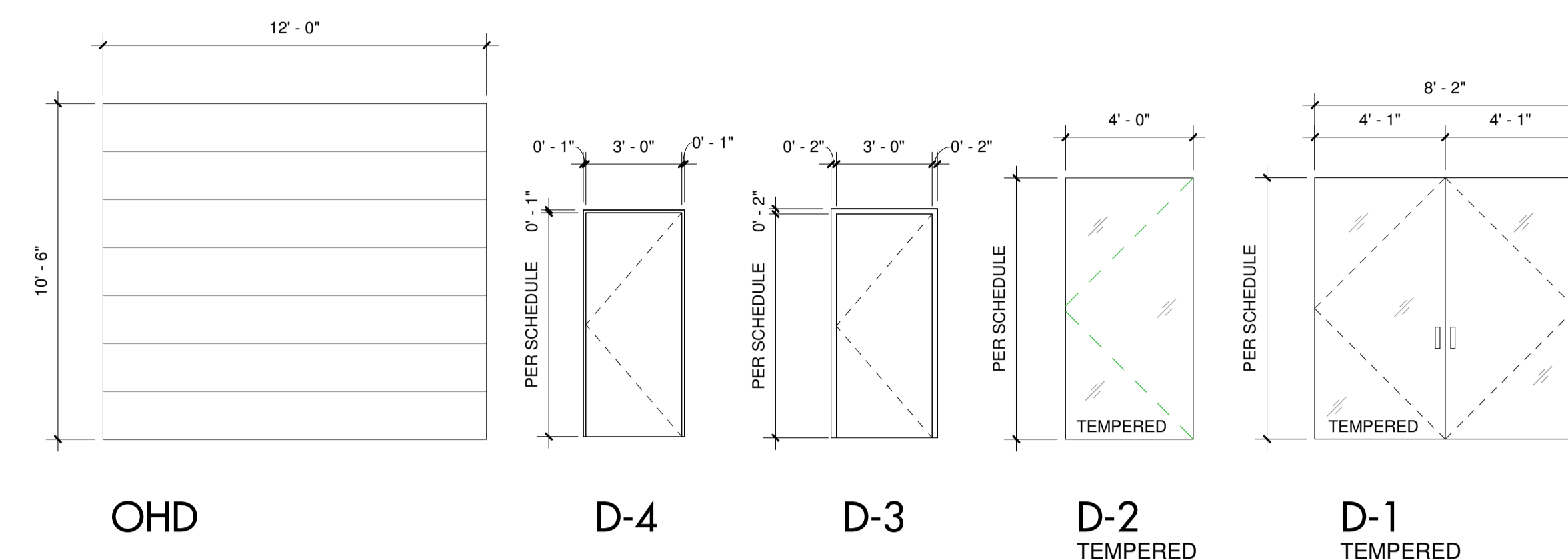


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KIVA #18-1372
SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36

DOOR SCHEDULE										
DOOR NUMBER	DESCRIPTION	TYPE	HARDWARE FUNCTION	HANDING	MATERIAL	FRAME		WIDTH	HEIGHT	FIRE RATING
						FRAME FINISH	FRAME TYPE			
D-1E	8'-0" WIDE DOUBLE GLASS DOOR	D-1	ENTRY / EGRESS	RHR, LHR	TEMPERED GLASS	-	FRAMELESS	8' - 2"	8' - 0"	NOT RATED
D-2E	3'-0" GLASS DOOR	D-2	ENTRY / EGRESS	RHR	TEMPERED GLASS	-	FRAMELESS	4' - 0"	8' - 0"	NOT RATED
D-3E	EXTERIOR INSULATED FLUSH	D-3	ENTRY / EGRESS	LHR	HM, PAINT BY MFGR	PAINT BY MFGR	HOLLOW METAL	3' - 0"	7' - 0"	NOT RATED
D-4E	EXTERIOR INSULATED FLUSH	D-3	ENTRY / EGRESS	LHR	HM, PAINT BY MFGR	PAINT BY MFGR	HOLLOW METAL	3' - 0"	7' - 0"	NOT RATED
D-5E	EXTERIOR INSULATED FLUSH	D-3	ENTRY / EGRESS	LHR	HM, PAINT BY MFGR	PAINT BY MFGR	HOLLOW METAL	3' - 0"	7' - 0"	NOT RATED
D-6	INTERIOR FLUSH SOLID CORE HARDBOARD	D-4	PASSAGE	RHR	WD, PAINT BY MFGR	-	KERF (FRAMELESS)	3' - 0"	7' - 0"	NOT RATED
D-7	INTERIOR FLUSH SOLID CORE HARDBOARD	D-3	PASSAGE	LH	WD, PAINT BY MFGR	PAINT BY MFGR	SOLID WOOD	3' - 0"	7' - 0"	NOT RATED
D-8	INTERIOR FLUSH SOLID CORE HARDBOARD	D-3	PRIVACY	RH	WD, PAINT BY MFGR	PAINT BY MFGR	SOLID WOOD	3' - 0"	7' - 0"	NOT RATED
D-9	INTERIOR FLUSH SOLID CORE HARDBOARD	D-3	PRIVACY	LH	WD, PAINT BY MFGR	PAINT BY MFGR	SOLID WOOD	3' - 0"	7' - 0"	NOT RATED
D-10	INTERIOR FLUSH SOLID CORE HARDBOARD	D-4	PRIVACY	RH	WD, PAINT BY MFGR	-	KERF (FRAMELESS)	3' - 0"	7' - 0"	NOT RATED
OHD-1	OVERHEAD DOOR	OHD	LOCKABLE, GARAGE OPENER	-	WD, PAINT BY MFGR	PAINT BY MFGR	METAL	12' - 0"	10' - 6"	NOT RATED

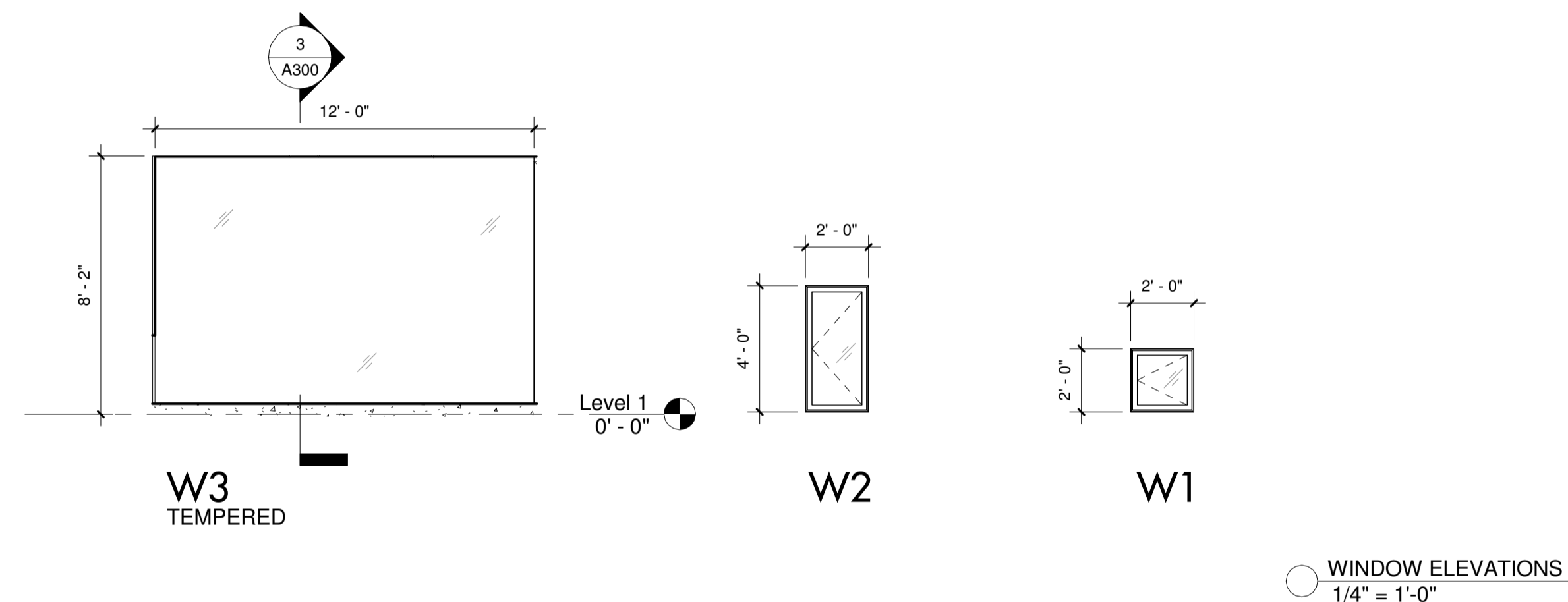


- NOTE:**
- ALL DOORS MUST OPERATE USING FIVE LBS OR LESS PRESSURE. HARDWARE TO OPERATE WITHOUT PINCHING, TIGHT GRASPING, OR TWISTING OF THE WRIST. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
 - DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34" MIN. AND 48" MAX ABOVE THE F.F. LOCKS USED ONLY FOR SECURITY PURPOSES AND NOT NORMAL OPERATION ARE PERMITTED AT ANY HEIGHT.
 - BOLT LOCKS, IF PROVIDED, MUST COMPLY WITH 1010.1.9.5
 5. ADD PANIC HARDWARE AT ALL EGRESS DOORS

DOOR SCHEDULE AND ELEVATIONS

WINDOW SCHEDULE					
WINDOW NUMBER	GLASS MATERIAL	WIDTH	HEIGHT	Sill Height	COMMENTS
W-1	CLEAR GLASS	2' - 0"	2' - 0"	4' - 0"	CASEMENT
W-1	CLEAR GLASS	2' - 0"	2' - 0"	9' - 6"	CASEMENT
W-1	CLEAR GLASS	2' - 0"	2' - 0"	9' - 6"	CASEMENT
W-1	CLEAR GLASS	2' - 0"	2' - 0"	3' - 0"	CASEMENT
W-1	CLEAR GLASS	2' - 0"	2' - 0"	6' - 6"	CASEMENT
W-1	CLEAR GLASS	2' - 0"	2' - 0"	4' - 6"	CASEMENT
W-2	CLEAR GLASS	2' - 0"	4' - 0"	3' - 3"	CASEMENT
W-3	CLEAR TEMPERED GLASS	12' - 0"	8' - 0"	0' - 0"	FIXED, FRAMELESS

ALL GLASS MUST MEET CRITERIA OUTLINED IN IECC 2018 AND IBC 2018.



WINDOW SCHEDULE AND ELEVATIONS

FINISH KEY AND SCHEDULE

ROOM FINISH SCHEDULE						
ROOM NO.	ROOM NAME	NET AREA	WALL FINISH	FLOOR FINISH	BASE FINISH	CEILING FINISH
01	RETAIL AREA	1826 SF	PT-1/POLYCARB	CONC-1	WD-1, REF. DETAIL	OPEN TO STRUCTURE/ SCRM
02	STOCK ROOM	1330 SF	PT-1	CONC-2	WD-1, REF. DETAIL	OPEN TO STRUCTURE/ SCRM
03	OFFICE	127 SF	PT-1	CONC-2	WD-1, REF. DETAIL	OPEN TO STRUCTURE/ SCRM
04	NEW TOILET	60 SF	PT-2	CONC-2	WD-1, REF. DETAIL	OPEN TO STRUCTURE/ SCRM
05	EXIST. TOILET	57 SF	PT-2	CONC-2	WD-1, REF. DETAIL	OPEN TO STRUCTURE/ SCRM
06	HALLWAY	117 SF	PT-1	CONC-2	WD-1, REF. DETAIL	OPEN TO STRUCTURE/ SCRM

FINISH KEY

- PT-1 PAINT FINISH, INTERIOR, COLOR TBD
- PT-2 PAINT FINISH, INTERIOR SEMI-GLOSS, COLOR TBD
- CONC-1 EXPOSED CONCRETE FLOOR, LEVEL, GRIND, AND POLISH
- CONC-2 EXPOSED CONCRETE FLOOR
- WD-1 WOOD, PAINT FINISH
- POLYCARB 6MM POLYGL OR EQUAL, CLASS A PER ASTM E84 W/ FLAME SPREAD OF 10 AND SMOKE DEVELOPED INDEX LESS THAN 450. MINIMUM REQ'D IS CLASS C PER IBC TABLE 803.13

SELF CERTIFIED BY: *[Signature]* DATE: 03/06/2019
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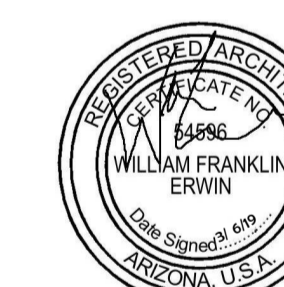
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SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE
-	PRE-APP MTG	10.10.18
-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19



Owner JONATHAN PITT
Proj. Name WANDERIST OFFICE & RETAIL

DOOR, WINDOW, AND FINISH SCHEDULES

Date 03/06/19

A600

Scale 1/4" = 1'-0"

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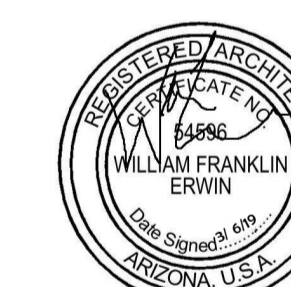
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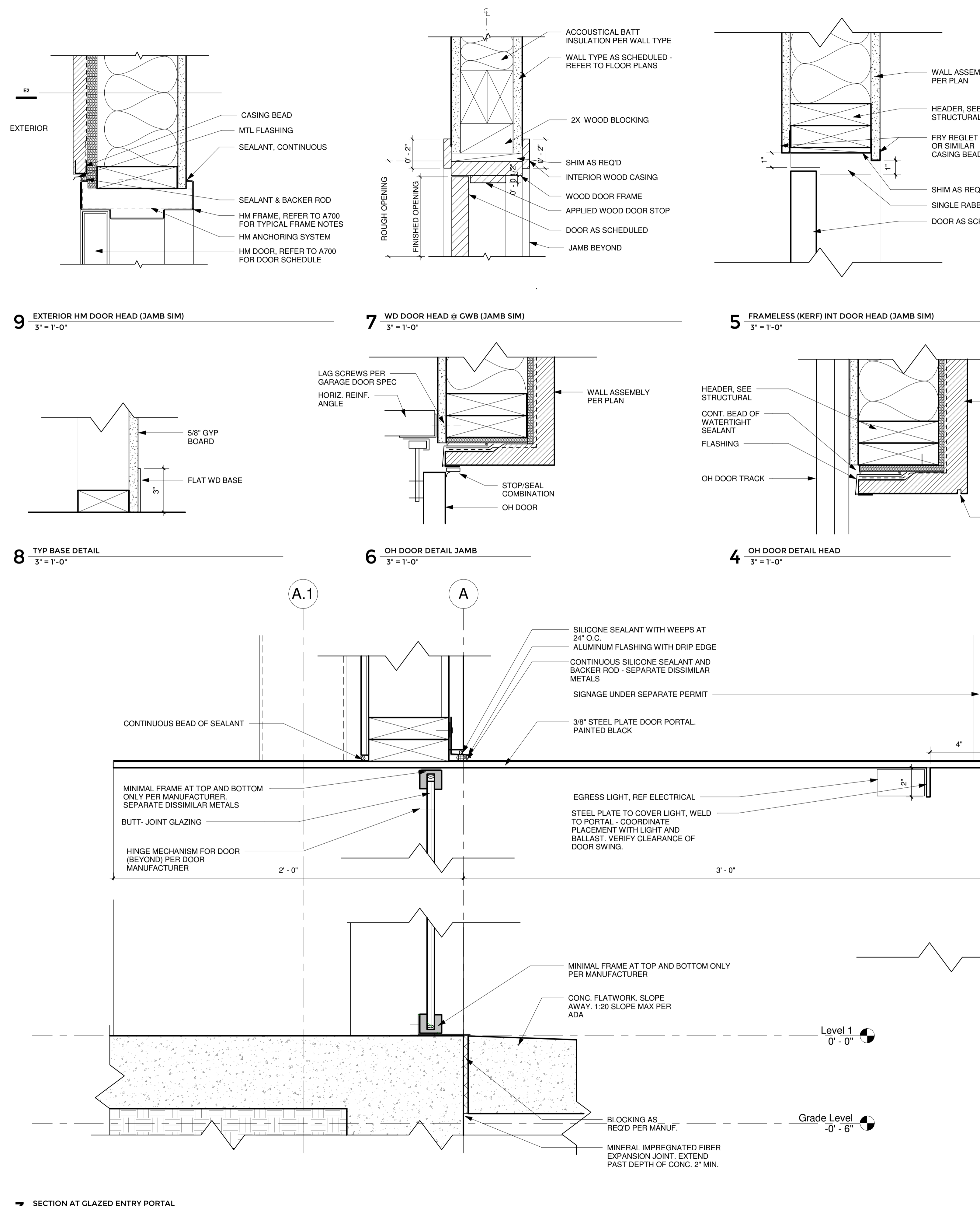
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 Proj. Name WANDERIST OFFICE & RETAIL

DOOR AND WINDOW DETAILS

Date 03/06/19

A802

Scale 3" = 1'-0"



SELF CERTIFIED BY: *[Signature]* DATE: 03/06/2019
 DONALD ANDREWS CERTIFICATE #45
 - PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL.
 - PLANS ARE COMPLETE.
 - THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

KIVA #18-1372
 SDEV #1800276
 PAPP #1806619
 PRLC
 QS Q16-36

City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

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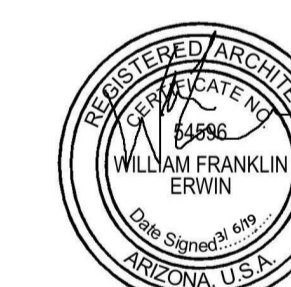
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Expires 6.30.19

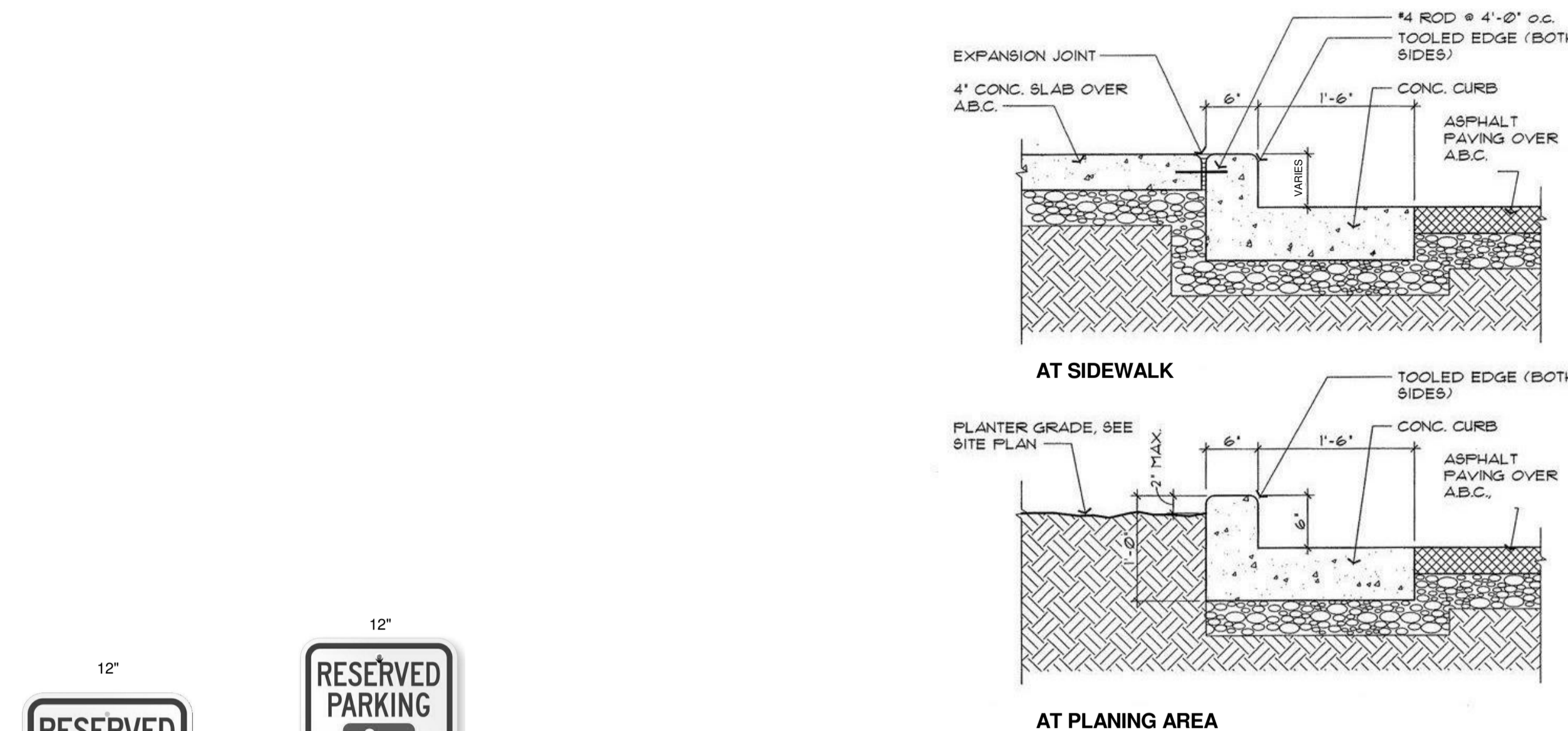
Owner JONATHAN PITT
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MISC. DETAILS

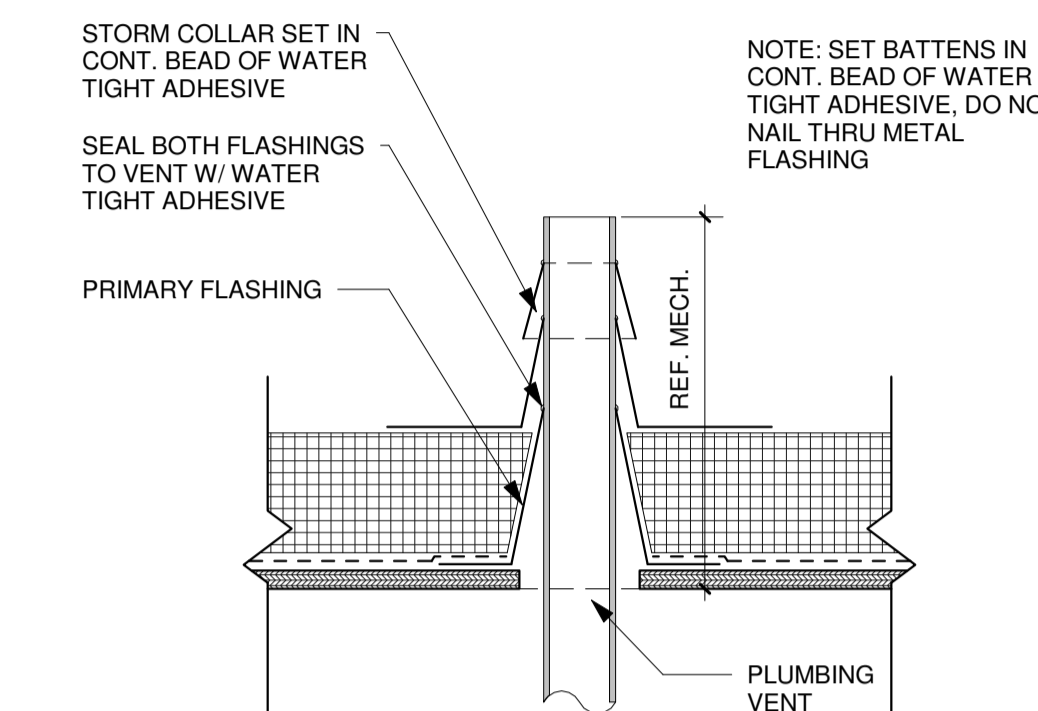
Date 03/06/19

A803

Scale As indicated



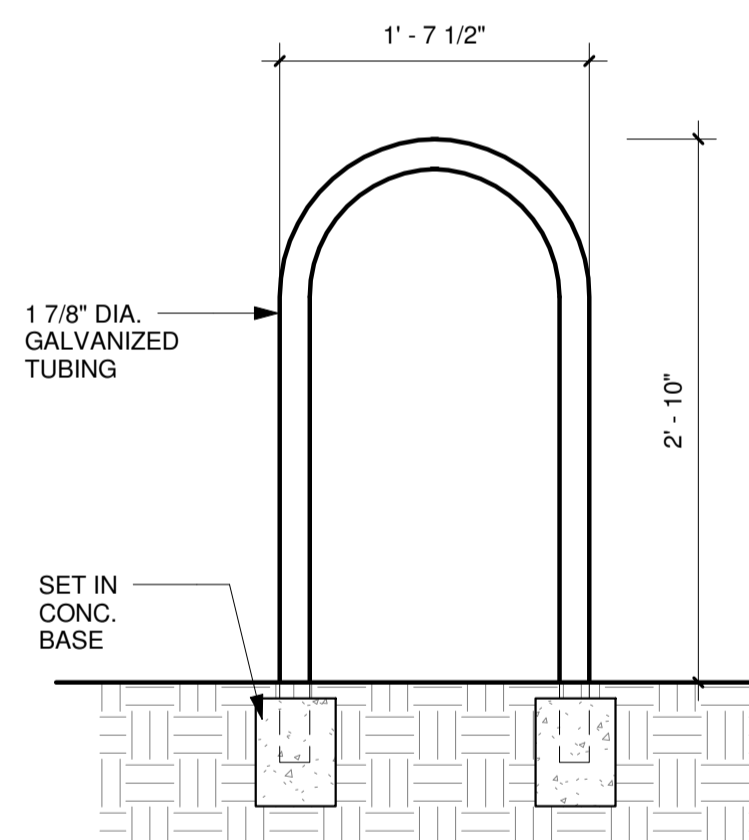
3 CURB DETAILS
 1" = 1'-0"



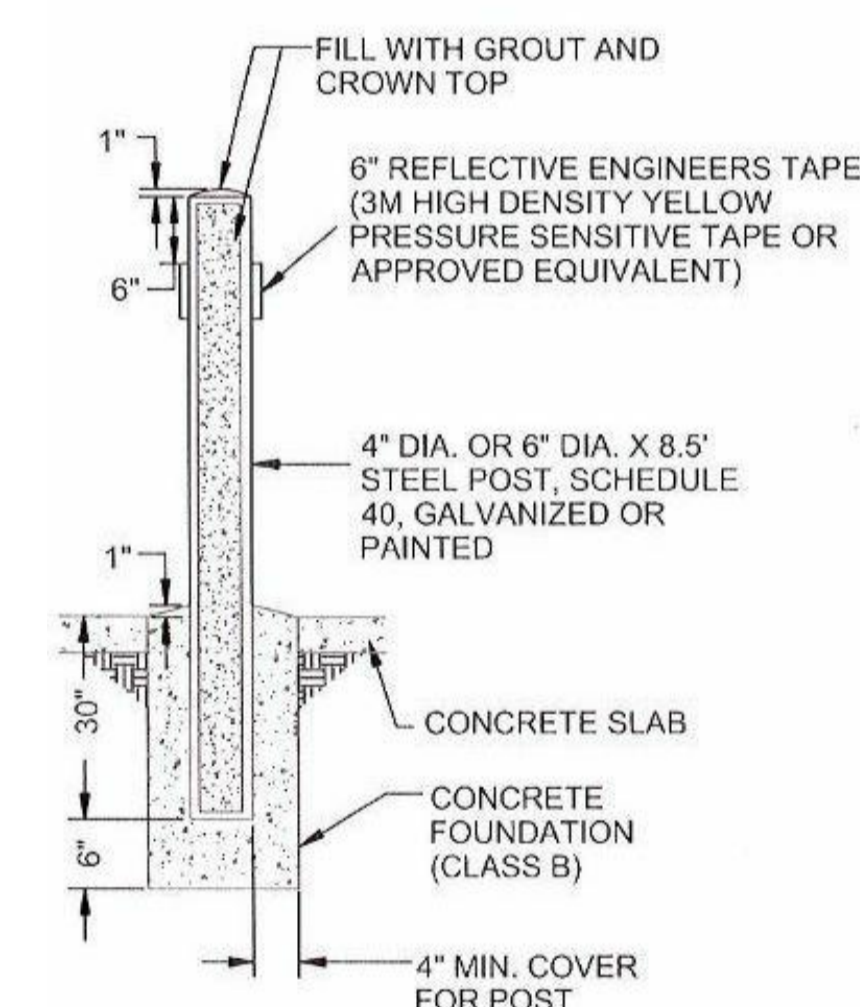
1 PLUMBING VENT DETAIL
 1 1/2" = 1'-0"



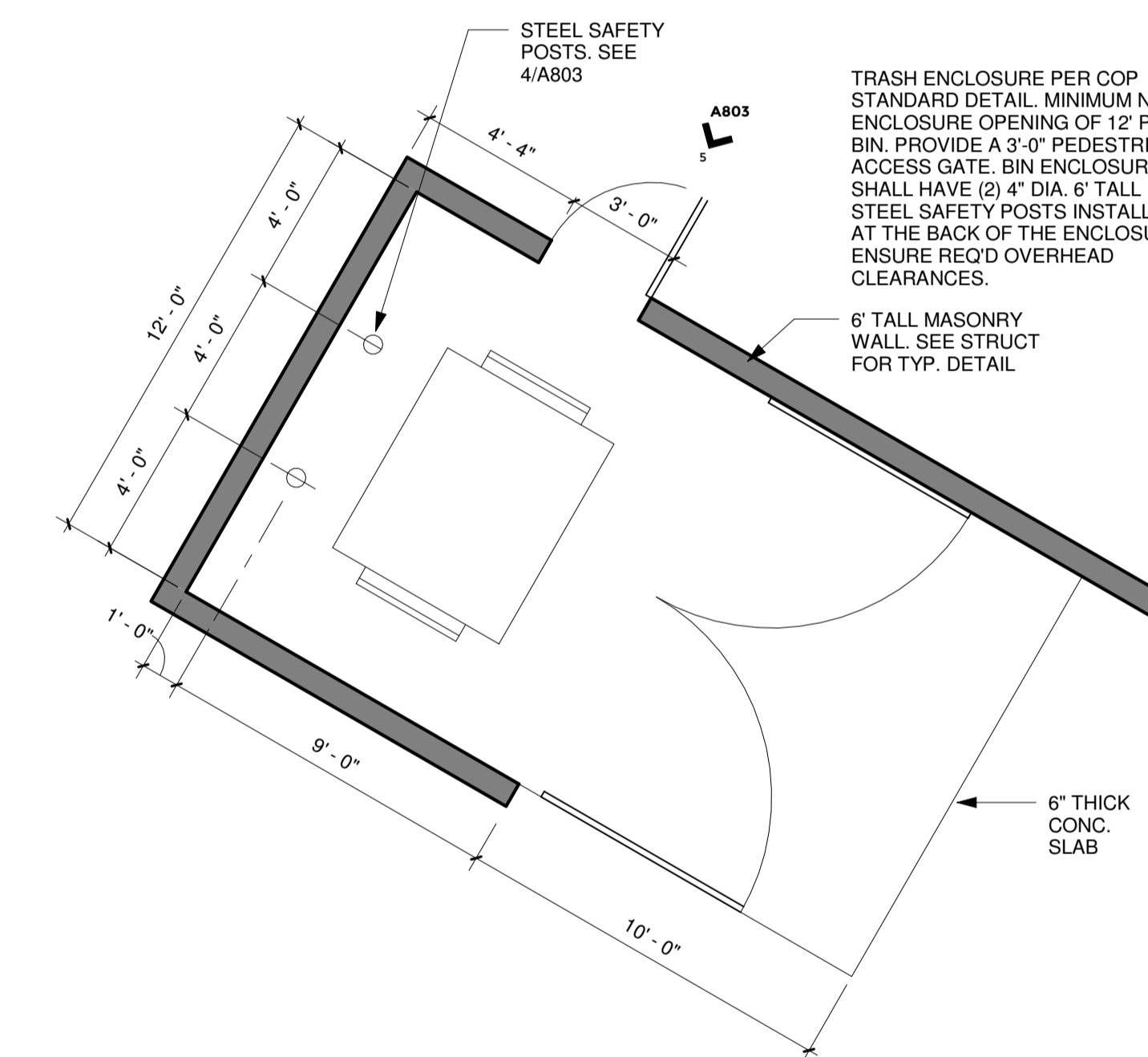
8 ACCESSIBLE PARKING SIGNS
 1 1/2" = 1'-0"



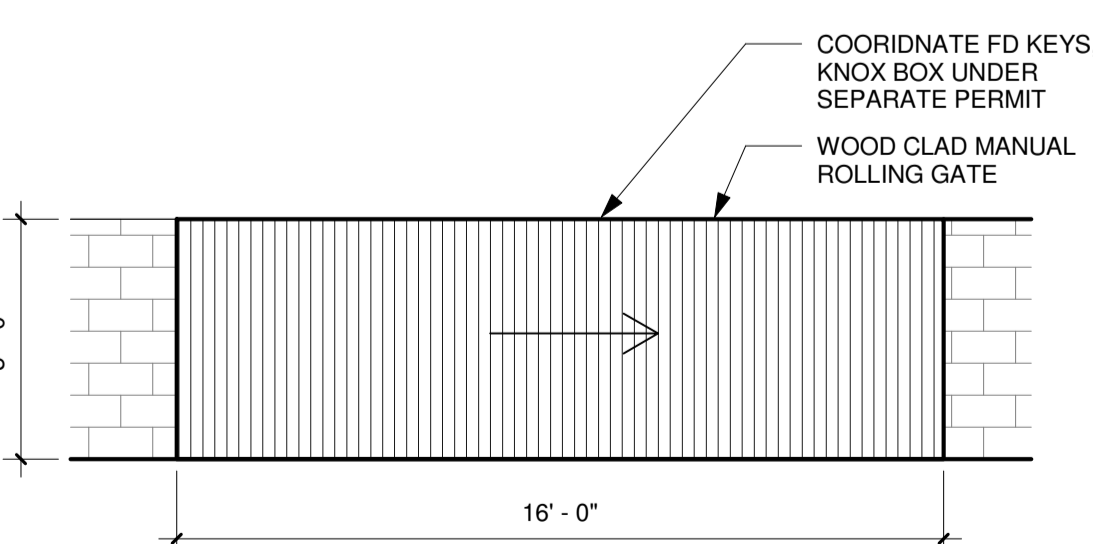
7 BIKE RACK DETAIL
 1" = 1'-0"



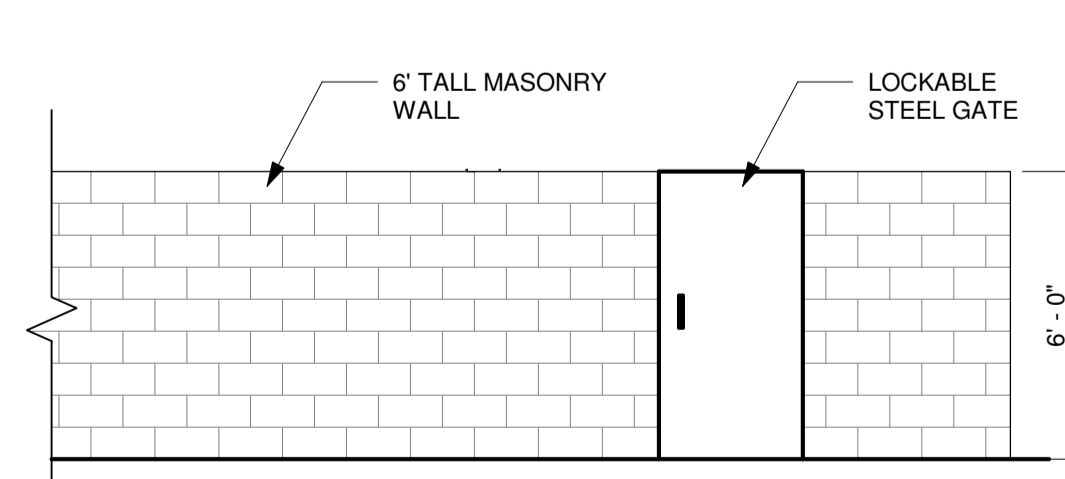
4 PIPE BOLLARD DETAIL
 1" = 1'-0"



2 EN-FP @ TRASH
 1/4" = 1'-0"



6 ROLLING GATE ELEV
 1/4" = 1'-0"



5 TRASH ENCLOSURE NORTH ELEV
 1/4" = 1'-0"

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KIVA #18-1372
 SDEV #1800276
 PAPP #1806619
 PRLC
 QS Q16-36

CODE:
2018 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC)

DESIGN LOADS:

- ROOF:**
 - LIVE LOAD: 20 PSF (REDUCIBLE)
 - DEAD LOAD: 10 PSF
 - SUPERIMPOSED DEAD LOAD ON TRUSSES: 16 PSF* (13PSF TOP CHORD / 3PSF BOTTOM CHORD)
 - *ROOF DEAD LOAD INCLUDES A 1.5 PSF ALLOWANCE FOR FIRE SPRINKLER PIPE BRANCH LINES LESS THAN 3 INCH DIAMETER. DESIGNERS OF STRUCTURAL MEMBERS ENGINEERED BY OTHERS SHALL COORDINATE THE WEIGHTS AND LOCATIONS OF ALL FIRE SPRINKLER BRANCH LINES GREATER THAN 3 INCH DIAMETER AND DESIGN FOR ADDITIONAL LOADS ACCORDINGLY.
- WIND LOAD:**
 - RISK CATEGORY: II
 - BASIC WIND SPEED, V: 102 MPH
 - EXPOSURE CATEGORY: C
 - IMPORTANCE FACTOR, Iw: 1.0
 - MEAN ROOF HEIGHT: 15 FT
 - INTERNAL PRESSURE COEFFICIENT: +/- 0.18
 - Cd: 0.85
 - Kd: 0.85
 - Kzt: 1.0
 - Kz: 1.12
 - ENCLOSURE CLASSIFICATION: ENCLOSED BUILDING
- SEISMIC:**
 - RISK CATEGORY: II
 - IMPORTANCE FACTOR, Ie: 1.0
 - SEISMIC SITE CLASS: C
 - Ss: 0.186
 - S1: 0.066
 - SDS: 0.297
 - SD1: 0.159
 - SEISMIC DESIGN CATEGORY: B
 - BASIC SEISMIC FORCE RESISTING SYSTEM: STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC AND LIGHT FRAME WOOD SHEAR WALLS WITH STRUCTURAL SHEAR PANELS
 - R: 3.0
 - D: 2.5
 - Cd: 3.0
 - Cs: 0.01
 - BASE SHEAR, V: 0.01W

- FOUNDATIONS:**
- GEOTECHNICAL CONSULTANT: ACS SERVICES LLC
 - REPORT NUMBER: 1901078
 - REPORT DATE: FEBRUARY 11, 2019
 - SPREAD FOOTINGS SHALL BEAR ON COMPACTED FILL FOR FILL REQUIREMENTS. SEE SOIL REPORT. DESIGN SOIL BEARING VALUE 1,500 PSF. BOTTOM OF FOOTINGS TO BE 2'-0" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT FINISHED GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
 - SPREAD FOOTINGS SHALL BEAR ON COMPACTED NATIVE SOILS. ASSUMED DESIGN SOIL BEARING VALUE 1,500 PSF AND LATERAL BEARING VALUE OF 150 PSF/FT PER IBC TABLE 1806.2 "PRESUMPTIVE LOAD-BEARING VALUES" WITH ASSUMED SAND, SILTY SAND, CLAYEY SAND, ETC. IF ACTUAL SOIL CONDITIONS DIFFER NOTIFY THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH WORK. BOTTOM OF FOOTINGS SHALL BEAR AT A DEPTH NOT LESS THAN 1.5 FT BELOW LOWEST ADJACENT GRADE WITHIN 5 FEET OF STRUCTURE OR FOUNDATION. FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF CONCRETE.

- DEFERRED SUBMITTALS:**
- DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.
 - SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTALS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD THROUGH THE ARCHITECT AND GENERAL CONTRACTOR WITHIN 6 WEEKS OF AWARD OF CONTRACT TO THE GENERAL CONTRACTOR. ONCE THE SUBMITTAL DOCUMENTS HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS, THE ENGINEER OF RECORD WILL FORWARD THEM TO THE ARCHITECT WITH A NOTATION INDICATING THAT THEY ARE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE ARCHITECT WILL FORWARD THE DEFERRED SUBMITTALS TO THE GENERAL CONTRACTOR WHO WILL MAINTAIN ONE SET ON SITE FOR REFERENCE BY THE CITY INSPECTOR. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
 - ITEMS THAT ARE SUBMITTED FOR CONSIDERATION AS DEFERRED SUBMITTALS ARE AS FOLLOWS:
 - PREFABRICATED OPEN WEB (TJL TYP) WOOD TRUSSES
 - CURTAIN WALL SYSTEM
- SHOP DRAWINGS:**
- SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS AND ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS, UNITED STRUCTURAL DESIGN, LLC. ARCHITECT ASSUMES NO RESPONSIBILITY FOR THE FAILURE OF THE CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW.
 - ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTORS REVIEW
 - ALL SHOP DRAWING DOCUMENTS MAY NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
 - ELECTRONIC FILES OF CONSTRUCTION DOCUMENTS WILL NOT BE MADE AVAILABLE FOR USE AS SHOP DRAWINGS.
 - VERIFY ALL DIMENSIONS AND FINISHED GRADE WITH ARCHITECTURAL LAYOUT AND SHOP DRAWINGS, AND FIELD CONDITIONS.
 - THE ENGINEER OF RECORD HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.
 - ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO THE CONTRACT DOCUMENTS.
 - SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL ITEMS ARE CONSTRUCTED ACCORDING TO THE CONTRACT DOCUMENTS.

- MASONRY:**
- MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 530, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
 - ALL UNITS SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE. VERTICAL ALIGNMENT OF CELLS SHALL MAINTAIN A CONTINUOUS CLEAR, UNOBSTRUCTED CELL NOT LESS THAN 3 INCHES SQUARE. MINIMUM DEPTH OF HORIZONTAL BOND BEAM CHANNEL BELOW TOP OF UNIT SHALL BE 1 1/2", AND CHANNEL SHALL BE 3" WIDE MINIMUM. ALL UNITS SHALL BE FREE OF DUST AND DIRT AT THE TIME OF LAYING.
 - MORTAR SHALL CONFORM TO ASTM C270 AND SHALL BE TYPE S WITH COMPRESSIVE STRENGTH = 1,800 PSI. MASONRY CEMENT AND EXTENDED LIFE MORTAR SHALL NOT BE USED.
 - GROUT SHALL CONFORM TO ASTM C-476. GROUT FOR WALLS CONSTRUCTED WITH HOLLOW CORE CONCRETE MASONRY UNITS OR FOR TWO-WYTHE WALLS SHALL HAVE AN Fg = 2000 PSI. GROUT FOR WALLS CONSTRUCTED WITH HOLLOW BRICK MASONRY UNITS SHALL HAVE AN Fg = 3000 PSI.
 - VERTICAL REINFORCING (UNLESS NOTED OTHERWISE): PLACE #4 (6" WALLS), #5 (8" WALLS), #5 (12" WALL) BAR IN CENTER OF GROUT AT CENTER OF WALL, CONTINUOUS FULL HEIGHT OF WALL, WITH ONE BAR AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARING, JAMBS AND EACH SIDE OF CONTROL JOINTS AND AT INTERVALS NOT TO EXCEED 48" O.C. TIE AT 8"-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE BY A.A. PRODUCTS COMPANY, UNLESS NOTED OTHERWISE. LAP SPLICES SHALL BE PER LAP SPlice SCHEDULE IN TYPICAL DETAILS. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90 DEGREE HOOKED DOWELS TO MATCH VERTICAL REINFORCING.
 - HORIZONTAL REINFORCING (UNLESS NOTED OTHERWISE): PLACE (2) #4 (6" WALL), (2) #5 (8" WALL), (2) #5 (12" WALL) BARS IN MINIMUM 6" DEEP GROUTED CONTINUOUS BOND BEAM AT ROOF AND ELEVATED FLOOR LINES. PLACE #4 (6" WALL), #5 (8" WALL), #5 (12" WALL) BAR IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT TOP OF PARAPET OR TOP OF A FREE-STANDING WALL. PLACE THESE BARS CONTINUOUS THROUGH CONTROL JOINT. WRAP MASTIC TAPE FOR 1'-6" EACH SIDE OF CONTROL JOINT. PROVIDE BENT BARS, TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTIONS TO MAINTAIN BOND BEAM CONTINUITY. UNLESS NOTED OTHERWISE, LAP SPLICES SHALL BE PER TYPICAL REINFORCING BAR SPlice DETAIL. STAGGER ALTERNATE SPLICES A MINIMUM OF 4'-0". PROVIDE STANDARD WEIGHT (NO. 9 GAGE WIRE) DUR-O-WALL OR DUR-O-WIRE LADDER TYPE JOINT REINFORCING AT 16" O.C. IN MASONRY WALLS. LAP JOINT REINFORCING 6" MINIMUM.
 - GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED, BUT BEFORE WORKABILITY IS LOST.
 - PROVIDE CLEANOUTS IF GROUT POUR EXCEEDS 5'-0" IN HEIGHT. IF CLEANOUTS ARE PROVIDED, GROUT POUR MAXIMUM HEIGHT = 12'-0", IN LIFTS NOT TO EXCEED 6'-0".
 - UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 24'-0". CONTROL JOINTS SHALL NOT OCCUR WITHIN 24" OF WALL CORNERS, INTERSECTIONS, ENDS OVER OPENINGS, OR WITHIN 24" OF JAMBS OR CONCENTRATED LOADS. CONTRACTOR SHALL PROVIDE M/C LAYOUT TO ARCHITECT AND ENGINEER OF RECORD FOR REVIEW PRIOR TO START OF CONSTRUCTION.
 - GROUT ALL CELLS CONTAINING REINFORCING AND ALL MASONRY BELOW GRADE.
 - MASONRY UNIT PROPERTIES:
 - HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A COMPRESSIVE STRENGTH OF 2,000 PSI AND A DENSITY BETWEEN 105 PCF AND 125 PCF (MEDIUM WEIGHT). Fm FOR DESIGN IS 2000 PSI.

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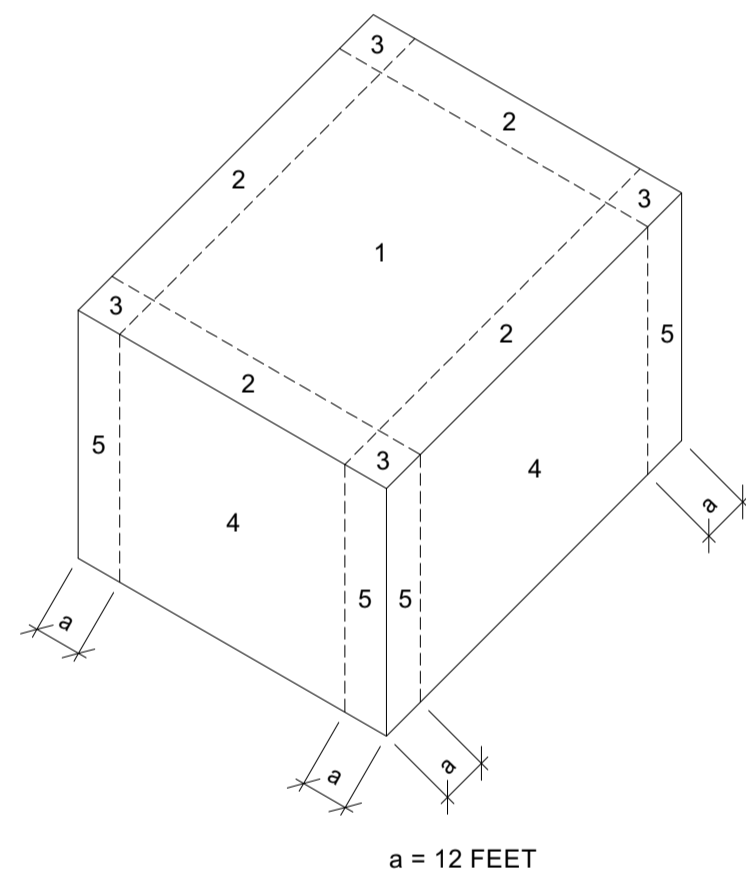
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COMPONENTS AND CLADDING WIND PRESSURE (ULTIMATE):



COMPONENT ZONE	SURFACE PRESSURE (PSF)			
	EFFECTIVE WIND AREA (SQ. FT)	10 SQ. FT	50 SQ. FT	100 SQ. FT
NEGATIVE PRESSURE: ZONE 1	-36.1 PSF	-30.6 PSF	-28.2 PSF	
POSITIVE PRESSURE: ZONE 1	16.0 PSF	16.0 PSF	16.0 PSF	
NEGATIVE PRESSURE: ZONE 2	-47.7 PSF	-40.5 PSF	-37.5 PSF	
NEGATIVE PRESSURE: ZONE 3	-47.7 PSF	-40.5 PSF	-37.5 PSF	
POSITIVE PRESSURE: ZONE 2&3	20.8 PSF	18.6 PSF	17.7 PSF	
PARAPET	63.9 PSF	54.3 PSF	50.2 PSF	
NEGATIVE PRESSURE: ZONE 4	-20.8 PSF	-20.4 PSF	-19.4 PSF	
NEGATIVE PRESSURE: ZONE 5	-38.1 PSF	-21.6 PSF	-19.7 PSF	
POSITIVE PRESSURE: ZONE 4&5	20.8 PSF	18.6 PSF	17.7 PSF	

- NOTES:**
- POSITIVE PRESSURE AND NEGATIVE PRESSURE SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTFULLY.
 - EACH COMPONENT SHALL BE DESIGNED FOR MAXIMUM POSITIVE AND NEGATIVE PRESSURES.

EXISTING DRAWINGS:

- EXISTING DRAWINGS WERE NOT AVAILABLE AT TIME OF DESIGN. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION.

EXISTING STRUCTURE:

- EXISTING STRUCTURAL DIMENSIONS AND MEMBER SIZES ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION. THE CONTRACTOR SHALL VERIFY THE ACTUAL CONFIGURATION OF EXISTING CONSTRUCTION AND THE CONDITION OF THE STRUCTURE BEFORE BEGINNING WORK. ANY DISCREPANCIES OR UNSOUND CONDITIONS SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION BEFORE BEGINNING WORK. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, EMBEDMENTS, AND OPENINGS NOT SHOWN. REFER TO MECHANICAL AND ELECTRICAL PLANS FOR DUCTS, PIPING, EMBEDMENTS, AND OPENINGS NOT SHOWN.
- TEMPORARY SHORING AND BRACING MAY BE NECESSARY IN ORDER TO PERFORM THE NECESSARY STRUCTURAL MODIFICATIONS TO THE EXISTING STRUCTURE SHOWN ON THE STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS. THE CONTRACTOR MUST RETAIN A LICENSED STRUCTURAL ENGINEER WHO SHALL INVESTIGATE WHERE THIS TEMPORARY SHORING/BRACING IS REQUIRED, AND SHALL DESIGN THIS TEMPORARY SHORING/BRACING.

GENERAL:

- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK THAT CONFORMS TO THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY AND HEALTH STANDARDS FOR THE CONSTRUCTION INDUSTRY.
- CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.
- ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. DO NOT PENETRATE ANY STRUCTURAL ELEMENTS (BEAMS, COLUMNS, WALLS, SLABS, STEEL DECK, ETC.) WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER THROUGH ARCHITECT OR OWNER.
- OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. HE SHALL BE RESPONSIBLE FOR ALL CHANGES NECESSARY IF HE CHOOSES AN OPTION AND HE SHALL COORDINATE ALL DETAILS.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS, WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.
- TYPICAL DETAILS ARE NOT CUT ON DRAWINGS, BUT APPLY UNLESS NOTED OTHERWISE.
- IF THERE ARE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. SUPPLIER OF ENGINEERED STRUCTURAL COMPONENTS SHALL BE RESPONSIBLE FOR COMPLETE DESIGN AND SHALL USE ALL CONTRACT DOCUMENTS FROM ALL DISCIPLINES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FINISHED GRADE WITH CIVIL DRAWINGS PRIOR TO START OF CONSTRUCTION. ALL DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS ARE TO ASSIST CONTRACTOR IN VERIFICATION. DO NOT SCALE DIMENSIONS FROM DRAWINGS.
- ITEMS SHOWN BY OTHER DISCIPLINES WITH REFERENCE TO STRUCTURAL DRAWINGS BUT NOT SHOWN ON THESE STRUCTURAL DRAWINGS SHALL BE CONSIDERED DESIGN BUILD ITEMS. CONTRACTOR SHALL SUBMIT DESIGN BY OTHERS FOR REVIEW

SHORING:

- THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING, AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURES ARE COMPLETE. SHORING DESIGN SHALL BE PROVIDED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

DEMOLITION:

- DEMOLITION OF EXISTING STRUCTURE TO BE REMOVED SHALL BE PERFORMED BY THE CONTRACTOR USING MEANS NECESSARY TO PREVENT DAMAGE TO THE EXISTING STRUCTURE TO REMAIN. DAMAGE TO THE EXISTING STRUCTURE TO REMAIN SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE USING METHODS REVIEWED BY THE STRUCTURAL ENGINEER. IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN IN THE CONTRACT DOCUMENTS, CONTACT STRUCTURAL ENGINEER THROUGH ARCHITECT PRIOR TO PROCEEDING WITH WORK.

- CONCRETE:**
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
 - PLACEMENT OF WATER TO THE BATCH FOR MATERIAL WITH INSUFFICIENT FLUMP WILL NOT BE PERMITTED, UNLESS THE SUPPLIER HAS SPECIFICALLY WITHHELD WATER FROM THE BATCH AT THE PLANT. IN SUCH CASE THE MIX DESIGN AND TRUCK TICKET MUST CLEARLY STATE THE MAXIMUM AMOUNT OF WATER THAT CAN BE ADDED TO THE BATCH ON SITE. IN NO CASE SHALL THE DESIGN WATER TO CEMENTITIOUS MATERIAL RATIO BE EXCEEDED.
 - CONCRETE CONTAINING SUPERPLASTICIZING ADMIXTURE SHALL HAVE A SLUMP OF 4" +/- 1". TO BE FIELD VERIFIED, PRIOR TO ADDING ADMIXTURE, AND NOT EXCEEDING 8" AT PLACEMENT.
 - MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, SLAB EDGES, REINFORCING, KEYS, ETC. MECHANICALLY VIBRATE ONLY THE TOP 5 FEET OF DRILLED PIER CONCRETE. REVIBRATE TOP OF DRILLED PIER 15 MINUTES AFTER PLACING CONCRETE.
 - UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT, ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONSTRUCTION JOINTS, KEYED OR SAW CUT, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 150 SQUARE FEET. KEYED CONSTRUCTION JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING POURING. ALL OTHER JOINTS MAY BE SAW CUT. CONTRACTOR SHALL SUBMIT PROPOSED SAWCUT AND CONSTRUCTION JOINT LAYOUT FOR REVIEW PRIOR TO CONSTRUCTION. CAST CLOSURE POUR AROUND COLUMNS AFTER DEAD LOAD IS APPLIED.
 - TEST DATA FOR CONCRETE SUBMITTALS SHALL BE SUBMITTED FOR REVIEW PRIOR TO PLACEMENT OF CONCRETE. REFERENCE ACI 318 CHAPTER 5, TABLE RS.3 FOR SPECIFIC REQUIREMENTS.
 - CLOSURE POUR SHALL BE CAST AROUND COLUMNS AFTER FULL COLUMN DEAD LOAD HAS BEEN APPLIED.
 - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, FLY ASH SHALL BE LIMITED TO 25% OF THE TOTAL CEMENTITIOUS MATERIALS BY WEIGHT. FLY ASH SHALL EXPOSED C618. FLY ASH SHALL NOT BE USED IN ARCHITECTURALLY EXPOSED CONCRETE OR IN SLABS WITH AN ACID OR BURNISHED FINISH.
 - CONCRETE TESTING SAMPLES SHALL BE CAST FOR EACH CLASS OF CONCRETE PLACED EACH DAY. ONE SAMPLE SHALL BE TAKEN EVERY 150 YD3. CONCRETE SAMPLING PER ASTM C31 AND TESTING OF SAMPLES PER ASTM C39.
 - VAPOR BARRIER IF REQUIRED BY ARCHITECTURAL SPECIFICATION OR SOILS REPORT SHALL CONSIST OF A MINIMUM 15 MIL MATERIAL LAPPED A MINIMUM OF 6 INCHES AND TAPED PER MANUFACTURER RECOMMENDATIONS. REFER TO SOILS REPORT FOR ADDITIONAL INFORMATION.
 - AT CONCRETE OVER PRECAST TEES OR STEEL DECK, ACTUAL CONCRETE VOLUMES MAY EXCEED THEORETICAL VOLUMES DUE TO CAMBER AND DEFLECTION. CONTRACTOR SHOULD MAKE ALLOWANCE FOR THIS IN THE BID. NO CLAIMS FOR ADDITIONAL CONCRETE VOLUMES WILL BE ALLOWED.
 - DRILLED PIER CONCRETE SHALL BE CHANNELLED TO FREE FALL DOWN THE SHAFT WITHOUT STRIKING THE REINFORCING OR THE SIDES OF THE SHAFT. MAXIMUM HEIGHT OF FREE-FALL IS 10'-0".
 - CONCRETE PROPERTIES:

CONCRETE USE	MINIMUM 28 DAY COMPRESSIVE STRENGTH
UNLESS NOTED OTHERWISE ALL CONCRETE SHALL BE	3,000 PSI
SLABS ON GRADE	4,000 PSI
FOOTINGS AND STEM WALLS	3,000 PSI

DRYPACK/FLOWABLE GROUT:

- THE SPACE BENEATH ALL BASEPLATES AND BEARING PLATES SHALL BE THOROUGHLY CLEANED BEFORE DRYPACKING OR GROUTING. DRYPACK/GROUT SOLID BENEATH ALL BASEPLATES AND BEARING PLATES (MINIMUM 95% BEARING). NO VOIDS ARE PERMISSIBLE. USE OF DRYPACK OR FLOWABLE GROUT IS AT THE CONTRACTORS OPTION UNLESS SPECIFICALLY NOTED ON THE PLANS OR DETAILS. DRYPACK/GROUT PER THE FOLLOWING:
 - DRYPACK - PORTLAND CEMENT, ASTM C150, TYPE I; AND CLEAN, NATURAL SAND, ASTM C404, SIZE NO. 2. MIX AT RATIO OF 1 PART CEMENT TO 2 1/2 PARTS SAND, BY VOLUME, WITH MINIMUM WATER REQUIRED FOR PLACEMENT AND HYDRATION. MINIMUM COMPRESSIVE STRENGTH SHALL BE 3000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C109.
 - FLOWABLE GROUT - PREMIXED, NONMETALLIC, NONCORROSIVE, NONSTAINING GROUT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS, COMPLYING WITH ASTM C1107, OF CONSISTENCY SUITABLE FOR APPLICATION, AND A 30-MINUTE WORKING TIME. MINIMUM COMPRESSIVE STRENGTH SHALL BE 5000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C1107. GROUT MUST BE CURED WITH WATER OR AN ASTM C309 CURE.

- STEEL REINFORCING:**
- ALL BARS PER CRSI SPECIFICATIONS AND HANDBOOK. LATEST ACI CODE AND DETAILING MANUAL APPLY. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE. REINFORCING BAR SPACINGS GIVEN ARE MAXIMUM ON CENTERS.
 - ALL REINFORCING TO BE WELDED SHALL BE WELDED IN ACCORDANCE WITH AWS D1.4. NO TACK WELDING OF REINFORCING BARS IS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE BY STRUCTURAL ENGINEER.
 - REINFORCING LAP SPLICES IN CONCRETE SHALL BE PER TYPICAL DETAIL UNLESS NOTED OTHERWISE. ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS.
 - LAP IN WELDED WIRE FABRIC SHALL BE MADE SO THAT THE OVERLAP MEASURED BETWEEN THE OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF CROSS WIRES PLUS 2 INCHES.
 - TYPICAL REINFORCING BAR STRENGTHS
 - REINFORCING (NON-WELDABLE): ASTM A615, DEFORMED, Fy = 60 KSI
 - REINFORCING (WELDABLE): ASTM A706, DEFORMED, Fy = 60 KSI
 - WELDED WIRE FABRIC: ASTM A185, WIRE PER ASTM A82
 - TYPICAL CLEAR CONCRETE COVERAGES
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - FORMED CONCRETE EXPOSED TO EARTH OR WEATHER: #5 AND LARGER: 2" #5 AND SMALLER: 1 1/2"
 - FORMED CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS OR JOISTS: #14 AND LARGER: 1 1/2" #11 AND SMALLER: 3/4"
 - BEAMS, COLUMNS (TO PRIMARY REINF., TIES OR STIRRUPS): 1 1/2"
- ALL OTHERS PER LATEST EDITION OF ACI 318.

SHEET LIST

SHEET NUMBER	SHEET NAME
S0.1	GENERAL STRUCTURAL NOTES
S0.2	GEN. CONT & SPECIAL INSPECTIONS
S0.3	SPECIAL INSPECT / SCHEDULE SHEET
S1.1	TYPICAL DETAILS
S1.2	TYPICAL DETAILS
S1.3	TYPICAL DETAILS
S1.4	TYPICAL DETAILS
S1.5	TYPICAL DETAILS
S2.1	FOUNDATION PLAN
S3.1	FRAMING PLAN
S4.1	FOUNDATION DETAILS
S4.2	FOUNDATION DETAILS
S5.1	FRAMING DETAILS
S5.2	FRAMING DETAILS

STRUCTURAL STEEL:

- LATEST AISC AND AWS CODES APPLY. THE WORD APPROVED INSPECTION 4.4 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES IS REDEFINED AS REVIEWED.
- STEEL SHALL BE FINISHED AT LOCATIONS EXPOSED TO WEATHER WITH A CORROSION RESISTANT COATING APPLICABLE TO WEATHER AND EXPOSURE CONDITIONS OF PROJECT LOCATION.
- WHEN STRUCTURAL STEEL IS FURNISHED TO A SPECIFIED MINIMUM YIELD POINT GREATER THAN 36 KSI, THE ASTM OR OTHER SPECIFICATION DESIGNATION SHALL BE INCLUDED NEAR THE ERECTION MARK ON EACH SHIPPING ASSEMBLY OR IMPORTANT CONSTRUCTION POINT. INDICATE ALL SPlice LOCATIONS AND PAINT PRIOR TO SHIPMENT FROM THE FABRICATORS PLANT.
- IF IT IS NECESSARY TO SPLICE ANY MEMBER, SPLICE LOCATIONS ARE SUBJECT TO REVIEW BY STRUCTURAL ENGINEER. SPLICES SHALL BE FULL PENETRATION WELDED AND TESTED PER THIS SECTION. INDICATE ALL SPLICE LOCATIONS, AND WELDING PROCEDURES ON SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.
- ALL BEAMS SHALL BE ERECTED WITH THE NATURAL CAMBER UPWARDS.
- ALL BOLTS SHALL BE INSTALLED WITH STEEL WASHERS.
- ALL REFERENCE TO HEADED STUDS SHALL INDICATE AUTOMATIC WELDED HIGH STRENGTH HEADED STUDS (NELSON OR EQUIVALENT). SHEAR CONNECTORS SHALL BE NELSON TYPE S3L OR EQUIVALENT AND SHALL BE MANUFACTURED FROM COLD DRAWN STEEL CONFORMING TO ASTM A 108. STUDS SHALL CONFORM TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE AWS C5.4 "RECOMMENDED PRACTICES FOR STUD WELDING" AND THE AWS D1.1 "STRUCTURAL WELDING CODE" PUBLISHED BY THE AMERICAN WELDING SOCIETY. CONFORMANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL QUALITY CONTROL TESTING PROVISIONS OF THE AFOREMENTIONED PUBLICATIONS.
- HEADED SHEAR CONNECTOR STUDS ON COMPOSITE STEEL BEAMS SHALL BE 3/4" DIAMETER TYPICAL UNLESS NOTED OTHERWISE AND UNIFORMLY SPACED. FOR LENGTH AND SPACING REQUIREMENTS, SEE TYPICAL DETAIL. USE NOT MORE THAN ONE STUD PER RIB WHERE THE NUMBER OF STUDS REQUIRED IS LESS THAN OR EQUAL TO THE NUMBER OF RIBS AVAILABLE. WHERE THE NUMBER OF STUDS REQUIRED EXCEEDS THE NUMBER OF RIBS AVAILABLE, PLACE A MINIMUM OF ONE STUD PER RIB FULL LENGTH OF THE BEAM. PLACE ADDED STUDS (NO MORE THAN TWO PER RIB TOTAL) IN EACH RIB BEGINNING AT THE SUPPORTS AT EACH END AND MOVING TOWARDS MIDSPAN UNTIL REQUIRED NUMBER OF STUDS ARE SUPPLIED. MAXIMUM LONGITUDINAL STUD SPACING IS 32" CENTER TO CENTER. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION. HEADED STUD LENGTHS AS SPECIFIED SHALL BE INTERPRETED AS THE FINISHED LENGTH AFTER INSTALLATION.
- ALL WELDING BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES, CERTIFICATES SHALL BE THOSE ISSUED BY AN INDEPENDENT TESTING AGENCY.
- ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS. USE E90 SERIES FOR ASTM A706 REINFORCING BARS. USE E308 SERIES FOR STAINLESS TO STAINLESS WELDS AND E309 SERIES FOR STAINLESS TO CARBON STEELS.
- ALL WELDING PER AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS OR FIELD WELDS SHALL BE SHOWN ON SHOP DRAWINGS.
- SLAG SHALL BE REMOVED FROM ALL COMPLETED WELDS, AND THE WELD AND ADJACENT BASE METAL SHALL BE CLEANED BY BRUSHING OR OTHER SUITABLE MEANS. WELDED JOINTS SHALL NOT BE PAINTED UNTIL AFTER WELDING HAS BEEN COMPLETED AND THE WELD ACCEPTED.
- ALL COMPLETE PENETRATION WELDS SHALL BE TESTED.
- STEEL FABRICATOR TO COORDINATE ALL BRACING, PLATES, ERECTION BOLTS, ETC. WITH STEEL JOIST MANUFACTURER AND STEEL ERECTOR.
- ALL STRUCTURAL STEEL SHALL BE FABRICATED BY A FABRICATOR WITH ANY ONE OF THE FOLLOWING MINIMUM QUALIFICATIONS. QUALIFICATIONS SHALL BE IN EFFECT AT TIME OF BID.
 - INTERNATIONAL ACCREDITATION SERVICE, INC. (IAS) APPROVED FABRICATOR.
 - AISC CERTIFIED FABRICATOR (STD).
- STEEL PROPERTIES
 - WIDE FLANGE COLUMNS, BEAMS AND TEES: ASTM A992 (Fy = 50 KSI)
 - CHANNELS, PLATES AND ANGLES: ASTM A36 (Fy = 36 KSI)
 - PIPE STEEL: ASTM A53 Gr. B (Fy = 35 KSI)
 - HSS RECTANGULAR STEEL: ASTM A501 Gr. B (Fy = 46 KSI)
 - BOLTS: ASTM A325 OR ASTM A F1552 TWIST-OFF TYPE
 - ANCHOR RODS: ASTM F1554 Gr. 36 (Fy = 36 KSI)

- ONE:**
- OF THE FOLLOWING METHODS SHALL BE USED TO ASSURE ADEQUATE PRETENSIONING IS ACHIEVED:
- TURN-OF-NUT METHOD
 - DIRECT TENSION INDICATOR WASHERS
 - CALIBRATED WRENCH
 - TWIST-OFF TYPE BOLT

SELF CERTIFIED BY: DATE: 03/06/2019

DONALD ANDREWS CERTIFICATE #45

- PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL, - PLANS ARE COMPLETE, - THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE

GENERAL STRUCTURAL NOTES

Date: 03/06/2019

S0.1

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

3/7/2019 8:55:12 AM

Owner: JONATHAN PITT
Proj. Name: WANDERIST OFFICE & RETAIL

GENERAL STRUCTURAL NOTES

Date: 03/06/2019

S0.1

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

WOOD:

- DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF STRUCTURAL ENGINEER THRU THE ARCHITECT.
- WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT I.C.C. APPROVAL. WHERE "TYPE" OF CONNECTOR IS INDICATED ON THE DRAWINGS/DETAILS, THE CONNECTOR AND ATTACHMENT SHALL BE PER THE MAXIMUM MODEL NUMBER BASED ON THE SIZE OF THE MEMBERS CONNECTED. ALL NAIL HOLES IN JOIST HANGERS AND MISCELLANEOUS FRAMING ANCHORS SHALL BE FILLED WITH NAILS PER MANUFACTURERS PUBLISHED NAIL SIZES. ALL BOLTED OR NAILED STRAP/SPLICE CONNECTIONS SHALL HAVE AN EQUAL NUMBER OF BOLTS OR NAILS EACH SIDE OF THE SPLICE JOINT. THE FIRST BOLT OR NAIL FROM EACH SIDE OF THE SPLICED OR STRAPPED MEMBER SHALL BE EQUIVALENT FROM THE SPLICE.
- ALL BEAMS AND JOISTS SHALL HAVE FULL UNIFORM BEARING AT SUPPORTS, BEAM SEATS AND COLUMN CAPS.
- ALL NAILING NOT NOTED SHALL BE ACCORDING TO IBC TABLE 2304.9.1.
- IN WOOD STUD WALLS, UNLESS NOTED OTHERWISE, DOUBLE UP STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, AND AT ISOLATED BEARING POINTS OF FRAMING MEMBERS ABOVE. WOOD FRAME BEARING WALLS SHALL HAVE A SIMPSON CONNECTOR/ANCHOR TOP AND BOTTOM OF STUDS AT 32" O.C. MAXIMUM, EXCEPT WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. PROVIDE 2X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS.
- AT WOOD STUD WALLS, WOOD PLATE ANCHOR RODS SHALL BE 1/2" DIAMETER PLACED NOT TO EXCEED 4'-0" O.C. UNLESS NOTED OTHERWISE. ANCHOR RODS SHALL BE PLACED AT ALL JAMBS, CORNERS, INTERSECTIONS, AND WALL ENDS. ALL BOTTOM PLATES SHALL HAVE A MINIMUM OF 2 ANCHOR RODS. PROVIDE A MINIMUM OF 229x3x3 GALVANIZED STEEL PLATE WASHER UNDER EACH NUT AT FOUNDATION ANCHOR BOLTS OF SHEAR WALLS. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDES WITH SHEATHING. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16" LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 1-3/4", PROVIDE A STANDARD CUT WASHER BETWEEN THE PLATE WASHER AND NUT.
- DOUBLE UP DOOR JOISTS IN PARTITIONS. PROVIDE 1 X 3 OR METAL CROSS BRIDGING AT MIDSPAN OF ALL FLOOR JOISTS. PROVIDE 2" SOLID BLOCKING AT SUPPORT OF ALL JOISTS. PROVIDE BLOCKING UNDER ALL PARTITION WALLS PERPENDICULAR TO FLOOR JOISTS.
- ALL MECHANICAL SUPPLY AND RETURN OPENINGS TO BE BETWEEN FRAMING U.I.O.
- ALL WOOD PRODUCTS EXPOSED TO WEATHER SHALL BE TREATED PER THE PROJECT SPECIFICATIONS.

WOOD SHRINKAGE:

- WOOD STUDS AND TRUSSES SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19% AT TIME OF DELIVERY TO JOB SITE. AFTER ROOF TRUSSES ARE ERCTED, AND PRIOR TO DRYWALL INSTALLATION.
- ALL STRAPS AND HOLD-DOWN ANCHORS SHALL BE RETIGHTENED AND CHECKED FOR LOOSE CONNECTIONS.
- MECHANICAL, PLUMBING, ELECTRICAL, AND DRYWALL SUBCONTRACTORS SHALL ACCOUNT FOR A MAXIMUM DIFFERENTIAL SHRINKAGE OF 1/8 INCH PER FLOOR IN ALL CONDUITS, DUCTS, AND CONNECTIONS.

PRESERVATIVE-TREATED WOOD:

- ALL FOUNDATION PLATES OR SILLS AND SLEEPERS IN CONTACT WITH CONCRETE, AND WOOD FRAMING MEMBERS ATTACHED TO CONCRETE/MASONRY WALLS BELOW GRADE SHALL BE PRESERVATIVE-TREATED WOOD.
- ALL WOOD FRAMING MEMBERS, INCLUDING WOOD SHEATHING THAT ARE LOCATED ON EXTERIOR WALLS THAT ARE LESS THAN 8 INCHES FROM FINISHED GRADE SHALL BE PRESERVATIVE-TREATED.
- ALL FASTENERS INCLUDING NUTS AND WASHERS IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED, ZINC COATED GALVANIZED, OR STAINLESS STEEL. THE COATING WEIGHTS FOR ZINC COATED FASTENERS SHALL BE PER ASTM 153. FASTENERS OTHER THAN NAILS, WOOD SCREWS, AND LAG SCREWS ARE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS PER ASTM B 695, CLASS 55 MINIMUM. CONTRACTOR SHALL COORDINATE WITH SUPPLIER TO PROVIDE ADEQUATE CORROSION RESISTANT METALS (NAILS, WASHERS, BOLTS, ETC.) BASED UPON THE CHEMICALS USED IN TREATED WOOD.

PREFABRICATED WOOD TRUSS MEMBERS:

- PREFABRICATED OPEN WEB WOOD TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERCTED IN ACCORDANCE WITH A CURRENT I.C.C. REPORT. FRAMING MEMBERS SHALL BE AGENCY STAMPED AND CONFORM TO THE GOVERNING CODE. FABRICATOR SHALL HAVE ISS APPROVAL OR BE APPROVED ACCORDING TO THE BUILDING JURISDICTION. MINIMUM WOOD TRUSS SIZES ARE AS INDICATED ON PLANS.
- CONNECTIONS AND BEARING MATERIAL TO BE SHOP CONNECTED TO TRUSSES AND DESIGNED AND FURNISHED BY TRUSS FABRICATOR.
- PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED TO SUPPORT THEIR OWN WEIGHT PLUS SUPERIMPOSED DEAD AND LIVE LOADS STATED IN THE GENERAL NOTES. BRIDGING AND PERMANENT BRACING REQUIRED FOR TRUSSES ARE NOT SHOWN ON STRUCTURAL DRAWINGS. SUPPLY AND INSTALL ALL BRACING PER TRUSS MANUFACTURER'S REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, CONNECTION DESIGN AND DETAILS, ERECTION DRAWINGS, AND SEALED CALCULATIONS FOR REVIEW PRIOR TO MANUFACTURE. CALCULATIONS AND SHOP DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS.
- PRIOR TO ENCLOSING TRUSSES, CONTRACTOR SHALL GIVE NOTIFICATION TO MANUFACTURER REPRESENTATIVE TO PROVIDE AN OPPORTUNITY FOR REVIEW OF THE INSTALLATION. A MANUFACTURER'S INSTALLATION REVIEW LETTER SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD UPON COMPLETION.
- ALL WOOD TRUSSES SHALL BE DESIGNED FOR AN ADDITIONAL 350 LB. POINT LOAD ANYWHERE ALONG THE SPAN.
- ADDITIONAL WOOD TRUSSES TO BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT. VERIFY SIZE, WEIGHT, AND LOCATION OF SUPPORTED EQUIPMENT WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND SPRINKLER DRAWINGS.
- MULTIPLE FRAMING MEMBERS SHALL BE FASTENED TOGETHER TO ALLOW TRANSFER OF SHEAR AND TENSION FORCES (MINIMUM 200 PLF) AT PLYWOOD SHEATHING JOINTS AND TO PREVENT CROSS GRAIN BENDING OF TOP CHORDS. ATTACHMENT SHALL BE A CONTINUOUS 20 GAGE METAL PLATE OR OTHER APPROVED MEANS. METHOD OF ATTACHMENT SHALL BE INDICATED ON SHOP DRAWINGS FOR REVIEW.
- TOTAL LOAD DEFLECTIONS OF WOOD TRUSSES SHALL BE LIMITED TO SPAN/260 AT SIMPLE SPAN FLOOR MEMBERS. LIVE LOAD DEFLECTIONS OF WOOD TRUSSES SHALL BE LIMITED TO SPAN/480 AT SIMPLE SPAN FLOOR MEMBERS AND 2X SPAN/480 AT CANTILEVER FLOOR MEMBERS. TOTAL LOAD DEFLECTIONS OF WOOD TRUSSES SHALL BE LIMITED TO SPAN/240 AT SIMPLE SPAN ROOF MEMBERS AND 2X SPAN/240 AT CANTILEVER ROOF MEMBERS. LIVE LOAD DEFLECTIONS OF WOOD TRUSSES SHALL BE LIMITED TO SPAN/360 AT SIMPLE SPAN ROOF MEMBERS. FABRICATOR SHALL DESIGN MEMBERS FOR PONDING WHERE ROOF SLOPES ARE LESS THAN 1/4" PER FOOT. FRAMING MEMBERS SHALL BE CAMBERED FOR 1.0 TIMES THE DEAD LOAD DEFLECTION. MAXIMUM TOTAL LOAD DEFLECTION OF MEMBERS SHALL BE 1" FABRICATOR SHALL DESIGN ADJACENT MEMBERS FOR A MAXIMUM OF 1/4" DIFFERENTIAL DEFLECTION.
- ALL CONNECTORS SHALL HAVE CURRENT I.C.C. APPROVAL AND SHALL BE DESIGNED AND SIZED FOR TWICE THE CALCULATED LOAD. NO OFFSETS FOR CONNECTIONS WILL BE PERMITTED. ALL TOP AND BOTTOM CHORD MATERIAL SHALL BE FINGER JOINTED AT SPLICES AND TENSION TESTED TO A MINIMUM OF 1.2 TIMES THE ALLOWABLE TENSION PARALLEL TO THE GRAIN (PER NATIONAL DESIGN SPECIFICATIONS).
- ALL PREFABRICATED WOOD TRUSSES SHALL BE CAMBERED FOR THE DESIGN DEAD LOAD.
- PREFABRICATED WOOD TRUSSES ARE A DEFERRED SUBMITTAL ITEM.

PLYWOOD:

- PLYWOOD SHALL BE APA "CDX" RATED SHEATHING OR BETTER, WITH AN EXTERIOR OR EXPOSURE 1 DURABILITY CLASSIFICATION AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY UP FLOOR AND ROOF PLYWOOD WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS. STAGGER JOINTS, ON ROOFS WHERE PLYWOOD IS LAYED UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD.
- MAXIMUM MOISTURE CONTENT AT TIME OF INSTALLATION TO BE LESS THAN 16%. PROVIDE PLY CLIPS AT MIDSPAN OF ALL UNSUPPORTED PLYWOOD EDGES. ALL NAILING SHALL BE COMMON NAILS. IF GUN NAILS ARE USED IN LIEU OF COMMON NAILS, REDUCE NAIL SPACING TO 4" AT EDGE NAILING AND 8" AT INTERMEDIATE NAILING. REFER TO TABLE BELOW FOR PLYWOOD PROPERTIES AND ATTACHMENT.
- SCREWS AT FLOOR SHEATHING SHALL BE 8x2 1/2" LONG FOR SHEATHING LESS THAN 1" THICK. ALL FLOOR SHEATHING SHALL BE GLUED TO SUPPORTING MEMBERS WITH APA AFG-01 QUALIFIED GLUE.
- NAILS AT FLOOR SHEATHING SHALL BE 0.148 DIA x 2 1/4" LONG SCREW SHANK NAILS FOR SHEATHING LESS THAN 1" THICK. ALL FLOOR SHEATHING SHALL BE GLUED TO SUPPORTING MEMBERS WITH APA AFG-01 QUALIFIED GLUE.
- ATTACHMENT AT STEEL MEMBERS SHALL BE ITW RAMSET 1500K SERIES, 0.14" DIA. x 1 1/2" LONG (3/4" PLYWOOD MAX), POWER-DRIVEN FASTENERS INSTALLED PER ICC ESR-1799, TABLE 4, OR APPROVED ICC EQUIVALENT. SPACING SHALL BE THE SAME AS NAIL SPACING IN SCHEDULE.
- THE FIRST SHEET OF PLYWOOD SHEATHING ADJACENT AND PARALLEL TO WALLS, PERIMETER MEMBERS OR MEMBERS IDENTIFIED AS CHORD, COLLECTOR OR DRAG MEMBERS (ON ONE OR BOTH SIDES AS APPLICABLE) SHALL BE FULL WIDTH SHEETS. ELSEWHERE MINIMUM SHEET WIDTH 2'-0".
- ALL SHEATHING SHALL BE GAPPED 1/8" ON THE EDGES AND ENDS. ROOF SHEATHING SHALL HAVE PANEL SHEATHING CLIPS APPROPRIATELY INSTALLED BETWEEN TRUSSES.
- AT FLOOR PLYWOOD, BLOCK EDGES WITH 2x4 LAID FLAT WHERE NOTED ON THE PLAN AND DETAILS.
- AT ROOF PLYWOOD, ALL UNSUPPORTED PLYWOOD EDGES TO BE BLOCKED WITH 2x4 LAID FLAT UNO ON THE PLANS.

PLYWOOD PROPERTIES AND ATTACHMENT			
	ROOF	FLOOR	SHEAR WALL (UNO)
THICKNESS	19/32"	23/32" T&G	15/32"
SPAN/INDEX RATIO	32/16	48/24	24/0
EDGE NAILING (COMMON NAILS)	10d (.148 DIA) AT 6" O.C.	10d RING SHANK AT 6" O.C.	8d (.134 DIA) AT 6" O.C.
INTERMEDIATE NAILING (COMMON NAILS)	10d (.148 DIA) AT 12" O.C.	10d RING SHANK AT 10" O.C.	8d (.134 DIA) AT 12" O.C.
MINIMUM NAIL PENETRATION (IN FRAMING)	1 5/8"	1 5/8"	1 1/2"

POST-INSTALLED ANCHORS:

- POST-INSTALLED ANCHOR SYSTEMS SHALL COMPLY WITH THE LATEST REVISION OF ICC-ES ACCEPTANCE CRITERIA AND HAVE A VALID ICC-ES REPORT IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.
- ANCHORS INSTALLED IN THE BOTTOM OF CONCRETE OVER STEEL DECK SHALL BE INSTALLED IN THE BOTTOM FLUTE ONLY.
- ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED ITS DESIGN STRENGTH.
- FOR ANCHOR EMBEDMENT, SEE DRAWINGS OR TYPICAL DETAIL. USE EMBEDMENT RECOMMENDED BY MANUFACTURER WHERE NO EMBEDMENT IS SHOWN.
- MANUFACTURER'S INSTALLATION TRAINING AND CERTIFICATION IS REQUIRED ON ALL POST-INSTALLED ANCHORS FOR ANCHOR INSTALLER.
- ADHESIVE ANCHORS INSTALLED IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE INSTALLER (AAI) AS CERTIFIED THROUGH AIC/CRS PER AIC 318. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
- ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS PER AIC 318.
- EXPANSION BOLTS IN CONCRETE SHALL BE ONE OF THE FOLLOWING: HILTI KWIK BOLT TZ CARBON AND STAINLESS STEEL ANCHORS (ICC-ES REPORT ESR-1917).
- SIMPSON STRONG-TIE STRONG-BOLT 2 ANCHOR (ICC-ES REPORT ESR-3037).
- DEWALT/POWERS POWER-STUD+SD2 CARBON AND STAINLESS STEEL ANCHOR (ICC-ES REPORT ESR-2502).
- SCREW ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLOWING: a. HILTI KWIK HUS-EZ CONCRETE SCREW ANCHOR (ICC-ES REPORT ESR-3027). b. ADHESIVE ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLOWING: a. HILTI HIT-HY 200 ADHESIVE ANCHOR (ICC-ES REPORT ESR-3187). b. HILTI HIT-RE 500 V3 ADHESIVE ANCHOR (ICC-ES REPORT ESR-3814). c. HILTI HIT-RE 100 ADHESIVE ANCHOR (ICC-ES REPORT ESR-3829). d. SIMPSON STRONG-TIE SET-XP EPOXY ADHESIVE ANCHOR (ICC-ES REPORT ESR-2508).
- ANCHORS IN CONCRETE OVER STEEL DECK SHALL BE ONE OF THE FOLLOWING: a. HILTI KWIK BOLT TZ CARBON AND STAINLESS STEEL ANCHORS (ICC-ES REPORT ESR-1917). b. HILTI KWIK HUS-EZ CONCRETE SCREW ANCHOR (ICC-ES REPORT ESR-3027). c. SIMPSON STRONG-TIE STRONG-BOLT 2 WEDGE ANCHOR (ICC-ES REPORT ESR-3037). d. SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR (ICC-ES REPORT ESR-2713). e. DEWALT/POWERS POWER-STUD+SD2 CARBON AND STAINLESS STEEL ANCHOR (ICC-ES REPORT ESR-2502).
- EXPANSION BOLTS IN MASONRY SHALL BE ONE OF THE FOLLOWING: a. HILTI KWIK BOLT 3 (ICC-ES REPORT ESR-1385). b. HILTI KWIK BOLT TZ CARBON AND STAINLESS STEEL ANCHORS (ICC-ES REPORT ESR-1917). c. SIMPSON STRONG-TIE WEDGE-ALL ANCHOR (ICC-ES REPORT ESR-1396).
- ADHESIVE ANCHORS IN MASONRY SHALL BE ONE OF THE FOLLOWING: a. HILTI HIT HY 70 ADHESIVE ANCHOR (ICC-ES REPORT ESR-2682). b. SIMPSON STRONG-TIE SET XP ADHESIVE ANCHOR (APMO UES ER-265).
- SCREW ANCHORS IN GROUT FILLED MASONRY SHALL BE ONE OF THE FOLLOWING: a. HILTI KWIK HUS-EZ CONCRETE MASONRY SCREW ANCHOR (ICC-ES REPORT ESR-3056). b. SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR (ICC-ES REPORT ESR-1056).

SPECIAL STRUCTURAL INSPECTIONS:

- PER IBC SECTION 1704 AND 1705 SPECIAL INSPECTIONS ARE IN ADDITION TO THE REQUIRED INSPECTION CONDUCTED BY THE BUILDING JURISDICTION PER IBC SECTION 110. THE TYPES OF WORK LISTED BELOW SHALL BE INSPECTED BY A SPECIAL INSPECTOR.
- ALL SPECIAL INSPECTORS SHALL BE UNDER THE SUPERVISION OF A REGISTERED CIVIL OR STRUCTURAL ENGINEER.
 - THE QUALIFICATIONS OF ALL SPECIAL INSPECTORS SHALL BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
 - THE MINIMUM QUALIFICATIONS FOR THE SPECIAL INSPECTORS ARE AS FOLLOWS:
 - CONCRETE INSPECTION - I.C.C. CERTIFICATION IN REINFORCED CONCRETE OR E.I.T. CERTIFICATION.
 - STRUCTURAL WELDING INSPECTION
 - VISUAL TESTING - I.C.C. CERTIFICATION IN STRUCTURAL STEEL AND WELDING OR A.W.S. CERTIFIED WELD INSPECTOR (C.W.I.).
 - NON-DESTRUCTIVE TESTING - A.W.S. C.W.I.
 - HIGH STRENGTH BOLTING INSPECTION - I.C.C. CERTIFICATION IN STRUCTURAL STEEL AND WELDING.
 - SPECIAL CASES - EXPERIENCE ACCEPTABLE TO THE STRUCTURAL ENGINEER OF RECORD.

4. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
- THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK REQUIRING SPECIAL INSPECTION FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.
 - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO BE KEPT AT THE SITE FOR USE BY THE BUILDING OFFICIAL, THE CONTRACTOR, THE STRUCTURAL ENGINEER OF RECORD, AND THE ARCHITECT OF RECORD. IF SPECIAL INSPECTION IS PROVIDED BY ANYONE OTHER THAN THE STRUCTURAL ENGINEER OF RECORD, INSPECTION REPORTS SHALL BE SUBMITTED TO THE OFFICE OF THE STRUCTURAL ENGINEER ON A WEEKLY BASIS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
 - UPON COMPLETION OF THE ASSIGNED WORK, THE SPECIAL INSPECTOR SHALL COMPLETE AND SIGN A FINAL REPORT CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
5. DUTIES AND RESPONSIBILITIES OF THE CONTRACTOR:
- NOTIFY THE RESPONSIBLE INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST ONE WORKING DAY (24 HOURS MINIMUM) BEFORE SUCH INSPECTION IS REQUIRED.
 - ALL WORK REQUIRING SPECIAL STRUCTURAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT IS OBSERVED BY THE SPECIAL STRUCTURAL INSPECTOR.

SPECIAL INSPECTION

- INSPECTION OF FABRICATORS
- INSPECTION OF CONCRETE CONSTRUCTION
- INSPECTION OF MASONRY CONSTRUCTION
- INSPECTION OF STRUCTURAL STEEL
- INSPECTION OF STEEL OTHER THAN STRUCTURAL STEEL
- INSPECTION OF POST-INSTALLED ANCHORS
- INSPECTION OF SOILS

SEE TABLES ON GSN FOR ADDITIONAL INFORMATION.

MATERIAL	VERIFICATION AND INSPECTION	CONTINUOUS PERIODIC	RESPONSIBLE FIRM
EARTHWORK	GRADING, EXCAVATION, AND FILL	X -	TESTING LAB
	FILL MATERIAL	- X	TESTING LAB
	SOIL COMPACTION	- X	TESTING LAB
CAST-IN-PLACE CONCRETE	REINFORCING STEEL	- X	UNITED
	USE OF REQUIRED CONCRETE DESIGN MIX	- X	UNITED
	BOLTS INSTALLED IN CONCRETE (INCLUDING ADHESIVE AND EXPANSION ANCHORS)	X -	UNITED
	CONCRETE PLACEMENT AND CURING TECHNIQUES	X -	UNITED
	CONCRETE MATERIALS	- X	TESTING LAB
UNIT MASONRY ASSEMBLIES	MORTAR, GROUT, UNIT MASONRY MATERIALS, AND MASONRY PRISMS	- X	TESTING LAB
	SITE-MIXED MORTAR	- X	UNITED
	PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	- X	UNITED
	REINFORCEMENT AND CONNECTORS	- X	UNITED
	GROUT PLACEMENT	X -	UNITED
	ADHESIVE AND EXPANSION ANCHORS	X -	UNITED
STRUCTURAL STEEL AND STEEL DECK	STEEL FRAME FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS	- X	UNITED
	FIELD WELDED CONNECTIONS	- X	UNITED
	BOLTED CONNECTIONS	- X	UNITED
	ULTRASONIC TESTING AND MOMENT CONNECTION FIT UP	X -	TESTING LAB

2018 IBC, 1705.3 SPECIAL INSPECTION OF CONCRETE CONSTRUCTION

- SPECIAL INSPECTION AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY TABLE 1705.3.
- EXCEPTIONS: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED FOR:
- ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDING THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.
 - CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE:
 - THE FOOTINGS SUPPORT WALLS OF LIGHT-FRAME CONSTRUCTION;
 - THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH, f_c , NO GREATER THAN 2,500 PSI REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED.
 - CONCRETE SLABS ON GRADE. STEEL REINFORCING STILL REQUIRES SPECIAL INSPECTION.

2018 IBC, TABLE 1705.3: REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION			
VERIFICATION AND INSPECTION	CONTINUOUS PERIODIC	REFERENCE STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	- X	ACI 318: Ch. 20, 25.2, 25.3, 26.5.1-26.5.3	1910.4
2. REINFORCING BAR WELDING. a. VERIFY WELDABILITY OF REINFORCING BARS. OTHER THAN ASTM A706 b. FILLET WELDS, MAXIMUM 5/16"	- -	AWS D1.4 ACI 318: 26.5.4	---
c. INSPECT ALL OTHER WELDS.	X X	---	---
3. INSPECT ANCHORS CAST IN CONCRETE.	- X	ACI 318: 17.8.2	---
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE. a. ADHESIVE ANCHORS INSTALLED HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	- X	ACI 318: 17.8.2	---
5. VERIFYING USE OF REQUIRED DESIGN MIX.	- X	ACI 318: Ch 19, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X -	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X -	ACI 318: 26.4.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	- X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS.	X -	ACI 318: 26.10	---
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	- X	ACI 318: Ch 26.8	---
11. VERIFY OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	- X	ACI 318: 26.11	---
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	- X	ACI 318: 26.11.1, 2 (b)	---

1704.2.5 SPECIAL INSPECTION OF FABRICATORS:

SPECIAL INSPECTION OF FABRICATION OF STRUCTURAL STEEL BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP IS REQUIRED.

- EXCEPTION: SPECIAL INSPECTIONS OF FABRICATORS WITH ONE OF THE FOLLOWING QUALIFICATIONS IS NOT REQUIRED:
- INTERNATIONAL ACCREDITATION SERVICE, INC. (IAS) APPROVED FABRICATOR.
 - AISC CERTIFIED FABRICATOR (STD).

THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLIANCE AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.



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2018 IBC, 1705.4 SPECIAL INSPECTION FOR MASONRY CONSTRUCTION

SPECIAL INSPECTION OF MASONRY CONSTRUCTION SHALL BE INSPECTED AND VERIFIED IN ACCORDANCE WITH TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6 QUALITY ASSURANCE PROGRAM REQUIREMENTS.

LEVEL B QUALITY ASSURANCE PROGRAM PER TABLE 3.1.2. APPLIES

TMS 402/ACI 530 TABLE 3.1.2 - LEVEL B QUALITY ASSURANCE MINIMUM TESTS			
VERIFICATION AND INSPECTION	CONTINUOUS PERIODIC	REFERENCE TMS 402/ACI 530/ASCE 5	REFERENCE TMS 602/ACI 530.1/ASCE 6
1. VERIFY COMPLIANCE WITH APPROVED SUBMITTALS.	- X	---	Art. 1.5
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. PROPORTIONS OF SITE-PREPARED MORTAR b. CONSTRUCTION OF MORTAR JOINTS c. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES d. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES e. PRESTRESSING TECHNIQUE f. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	- X	---	Art. 2.1, 2.6 A Art. 3.3 B Art. 2.4 B, 2.4 H Art. 3.4, 3.6 A Art. 3.6 B Art. 2.1C
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: a. GROUT SPACE b. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES. c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES. d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS e. CONSTRUCTION OF MORTAR JOINTS	- X	---	Art. 3.2 D, 3.2F Art. 2.4, 3.4
4. VERIFY DURING CONSTRUCTION: a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS b. GRADE, TYPE, AND SIZE OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. c. WELDING OF REINFORCEMENT. d. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEG F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEG F) e. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE. f. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE g. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	- X	---	Art. 3.2 D, 3.2F Art. 2.4, 3.4 Sec. 6.1, 6.2.1, 6.2.6, 6.2.7 Art. 3.2 E, 3.4, 3.6 A Sec. 8.1.6.7.2, 9.3.3.4 (c), 11.3.3.4 (b) Art. 1.8 C, 1.8 D Art. 3.6 B Art. 3.5, 3.6 C Art. 3.3 B.9, 3.3 F.1.b
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	- X	---	Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4



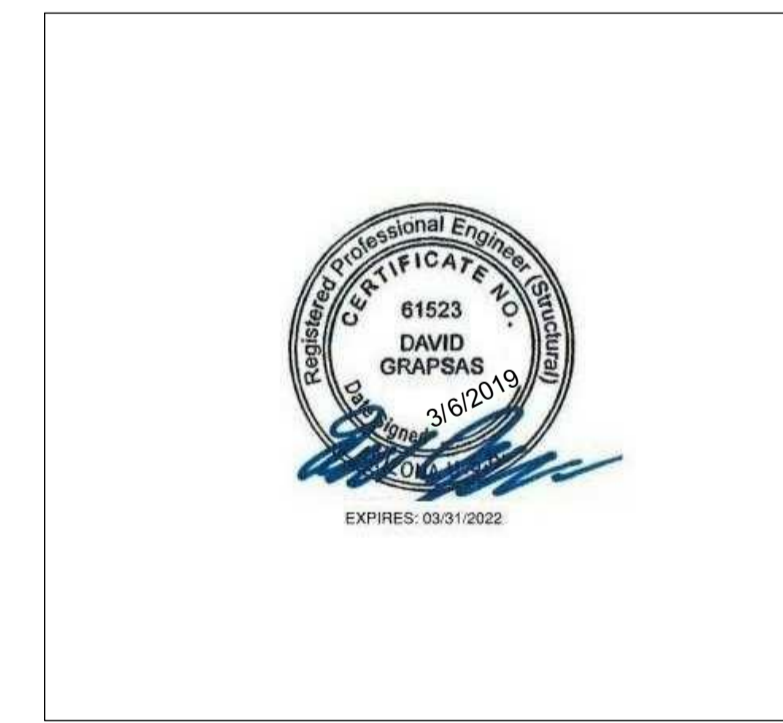
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Owner: JONATHAN PITT
Proj. Name: WANDERIST OFFICE & RETAIL

GSN, CONT & SPECIAL INSPECTIONS

Date: 03/06/2019

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

SELF CERTIFIED BY: DATE: 03/06/2019
DONALD ANDREWS CERTIFICATE #45

- PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL,
- PLANS ARE COMPLETE,
- THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

SPECIAL CASES: POST-INSTALLED ANCHORS

SPECIAL INSPECTION FOR EXPANSION, SCREW, AND EPOXY/ADHESIVE ANCHORS ARE REQUIRED DURING THE PLACEMENT OF ALL POST-INSTALLED ANCHORS SHOWN ON STRUCTURAL DRAWINGS AND INCLUDE:

- VISUAL VERIFICATION OF HOLE DIAMETER, HOLE DEPTH, AND DRILL BIT CONFORMANCE.
- VISUAL VERIFICATION OF HOLE CLEANING PER SPECIFIED PRODUCT MANUFACTURER'S RECOMMENDATIONS.
- VISUAL VERIFICATION OF ANCHOR INSTALLATION ACCORDING TO SPECIFIED PRODUCT MANUFACTURER'S RECOMMENDATIONS.
- INSPECTION OF EXPANSION AND SCREW ANCHORS SHALL INCLUDE VERIFICATION OF THE TIGHTENING TORQUE REQUIRED PER SPECIFIED ANCHOR MANUFACTURER.

IBC, 1705.6 SPECIAL INSPECTION OF SOILS

SPECIAL INSPECTION FOR EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD-BEARING REQUIREMENTS SHALL BE AS REQUIRED BY TABLE 1705.6.

IBC, TABLE 1705.6: REQUIRED VERIFICATION AND INSPECTION OF SOILS		CONTINUOUS PERIODIC
VERIFICATION AND INSPECTION TASK		
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

1705.2.2 SPECIAL INSPECTION OF STRUCTURAL STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

SPECIAL INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH TABLE 1705.2.2

IBC, TABLE 1705.2.2 REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL		CONTINUOUS PERIODIC	REFERENCE STANDARD
VERIFICATION AND INSPECTION			
1. MATERIAL VERIFICATION OF COLD-FORMED STEEL			
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	-	X	APPLICABLE ASTM MATERIAL STANDARD
b. MANUFACTURER'S CERTIFIED TEST REPORTS.	-	X	
2. INSPECTION OF WELDING:			
a. COLD-FORMED STEEL DECK:			
1) FLOOR AND ROOF DECK WELDS.	-	X	AWS D1.3
b. REINFORCING STEEL:			
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	-	X	
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCING.	X	-	AWS D1.4 ACI 318: SECTION 3.5.2
3) SHEAR REINFORCEMENT.	X	-	
4) OTHER REINFORCING STEEL.	-	X	

1705.2 SPECIAL INSPECTION OF STRUCTURAL STEEL CONSTRUCTION

SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.

NONDESTRUCTIVE TESTING OF WELDED JOINTS (SEE DESIGN LOADS FOR RISK CATEGORY):

- FOR RISK CATEGORY III OR IV - UT SHALL BE PERFORMED ON ALL CJP GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING.
- FOR RISK CATEGORY II - UT SHALL BE PERFORMED ON 10% OF WELDS IN MATERIALS 5/16" OR THICKER, WHERE MATERIAL IS LESS THAN 5/16", NO UT IS REQUIRED.
- FOR RISK CATEGORY I - UT NOT REQUIRED.

O - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS

P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER

AISC 360 TABLE N5.4-1: INSPECTION TASKS PRIOR TO WELDING	
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	P
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P
MATERIAL IDENTIFICATION (TYPE/GRADE)	O
WELDER IDENTIFICATION SYSTEM*	O
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	O
<ul style="list-style-type: none"> JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE) 	O
CONFIGURATION AND FINISH OF ACCESS HOLES	O
FIT-UP OF FILLET WELDS	O
<ul style="list-style-type: none"> DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) 	O
*THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.	

AISC 360 TABLE N5.4-2: INSPECTION TASKS DURING WELDING	
USE OF QUALIFIED WELDERS	O
CONTROL AND HANDLING OF WELDING CONSUMABLES	O
<ul style="list-style-type: none"> PACKAGING EXPOSURE CONTROL 	O
NO WELDING OVER CRACKED TACK WELDS	O
ENVIRONMENTAL CONDITIONS	O
<ul style="list-style-type: none"> WIND SPEED WITHIN LIMITS PRECIPITATION AND TEMPERATURE 	O
WPS FOLLOWED	O
<ul style="list-style-type: none"> SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F,V,H,OH) 	O
WELDING TECHNIQUES	O
<ul style="list-style-type: none"> INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS 	O

AISC 360 TABLE N5.4-3: INSPECTION TASKS AFTER WELDING	
WELDS CLEANED	O
SIZE, LENGTH AND LOCATION OF WELDS	P
WELDS MEET VISUAL ACCEPTANCE CRITERIA	P
<ul style="list-style-type: none"> CRACK PROHIBITION WELDBASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY 	P
ARC STRIKES	P
K-AREA*	P
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P
REPAIR ACTIVITIES	P
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P
*WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 INCHES OF THE WELD.	

AISC 360 TABLE N5.6-1: INSPECTION TASKS PRIOR TO BOLTING	
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	P
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	O
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	O
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O

AISC 360 TABLE N5.6-2: INSPECTION TASKS DURING BOLTING	
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	O
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	O
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGE.	O

AISC 360 TABLE N5.6-3: INSPECTION TASKS AFTER BOLTING	
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P

AISC 360 TABLE N6.1: INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT	
PLACEMENT AND INSTALLATION OF STEEL DECK	P
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	P

CONTINUOUS FOOTING (WF) SCHEDULE

NOTE: IF FIELD DIMENSION OF FOOTING IS LARGER THAN SHOWN IN SCHEDULE, CONTRACTOR TO PLACE ADDITIONAL REINFORCING TO MAINTAIN ACI 318 MINIMUM AREA OF STEEL REQUIREMENTS.

MARK	WIDTH	DEPTH	REINFORCING		NOTES
			TRANSVERSE	CONTINUOUS	
WF1	1' - 8"	1' - 0"		(2) #5 TOP AND BOTTOM	

ISOLATED FOOTING (F) SCHEDULE

NOTE: IF FIELD DIMENSION OF FOOTING IS LARGER THAN SHOWN IN SCHEDULE, CONTRACTOR TO PLACE ADDITIONAL REINFORCING TO MAINTAIN ACI 318 MINIMUM AREA OF STEEL REQUIREMENTS.

MARK	WIDTH	LENGTH	DEPTH	REINFORCING	
				TRANSVERSE	CONTINUOUS
F1	4' - 0"	4' - 0"	1' - 0"	(5) #5 EACH WAY, BOTTOM	
F2	5' - 0"	5' - 0"	1' - 0"	(6) #5 EACH WAY, BOTTOM	

STEEL COLUMN (C) SCHEDULE

MARK	SIZE	BASE PLATE AND ANCHORAGE	
		TRANSVERSE	CONTINUOUS
C1	HSS4X4X1/4	1/2"x11"x11" STEEL BASEPLATE WITH (4) 3/4" DIA. ANCHOR RODS WITH 7" EMBEDMENT	

WOOD/STEEL STUD WALL (W) SCHEDULE

MARK	STUD SIZE	STUD SPACING	REMARKS
WS1	6"	16" O.C.	

SHEAR WALL SCHEDULE (SW)

NOTE: WHERE NAIL SPACING IS LESS THAN 6" ON CENTER ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3" NOMINAL OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED TYP.

MARK	SHEATHING MATERIAL	NAILING	SHEATHING SIDES	BOTTOM PLATE TO CONCRETE	ALLOWABLE SHEAR
SW1	3/8" PLYWOOD (OR OSB APA RATED) (ALL EDGES BLOCKED)	8d COMMON NAILS AT 6" O.C. EDGE 12" O.C. FIELD	ONE SIDE	1/2" DIA x 7" LONG ANCHOR BOLTS WITH 1/4"x3"x3" GALVANIZED PLATE WASHERS AT 48" O.C.	372.5 PLF
SW2	3/8" PLYWOOD (OR OSB APA RATED) (ALL EDGES BLOCKED)	8d COMMON NAILS AT 6" O.C. EDGE 12" O.C. FIELD	ONE SIDE	1/2" DIA. X 5" LONG ADHESIVE ANCHOR BOLTS AT 48" O.C. WITH 1/4"x3"x3" GALVANIZED PLATE WASHERS.	372.5 PLF

HOLDOWN SCHEDULE (▲)

SEE DETAILS XX&XX/XXX FOR ADDITIONAL INFORMATION

SYMBOL	HOLDOWN	ANCHOR	EMBEDMENT	CAPACITY	POST AT HOLDOWN
▲1	SIMPSON HDU2-SDS2.5	SSTB16	12 5/8"	3.61K	(2) 2x6 STUDS MIN.
▲2	SIMPSON HDU2-SDS2.5	5/8" DIA. ADHESIVE ANCHOR BOLT	7"	2.66K	(2) 2x6 STUDS MIN.



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SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE



Owner JONATHAN PITT
Proj. Name WANDERIST OFFICE & RETAIL

SPECIAL INSPECT./ SCHEDULE SHEET

Date 03/06/2019

S0.3

Scale 1/4" = 1'-0"

SELF CERTIFIED BY: DATE: 03/06/2019
DONALD ANDREWS CERTIFICATE #45

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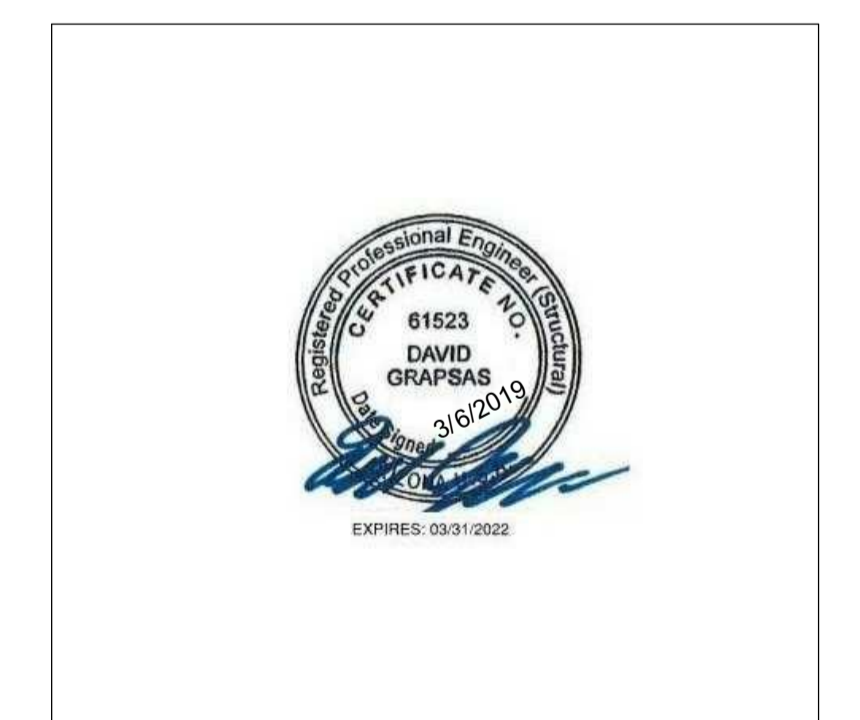
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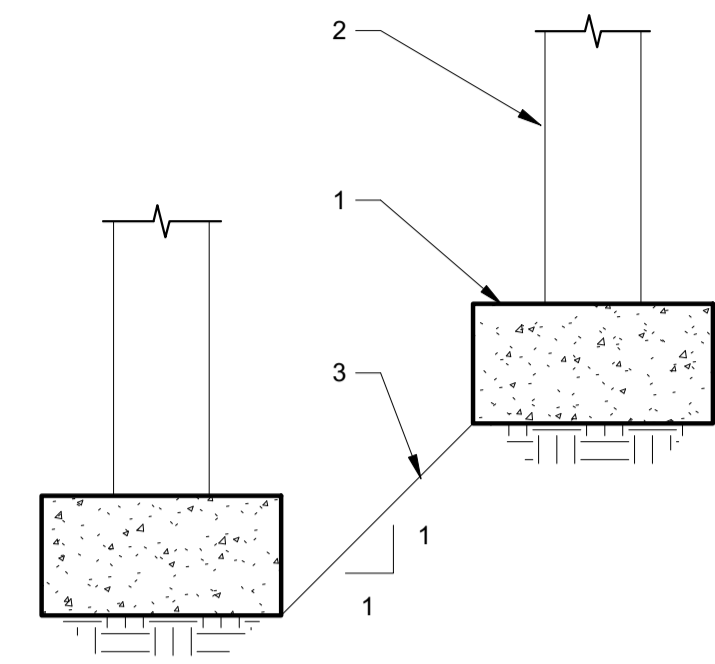
TYPICAL DETAILS

Date 03/06/2019

S1.1

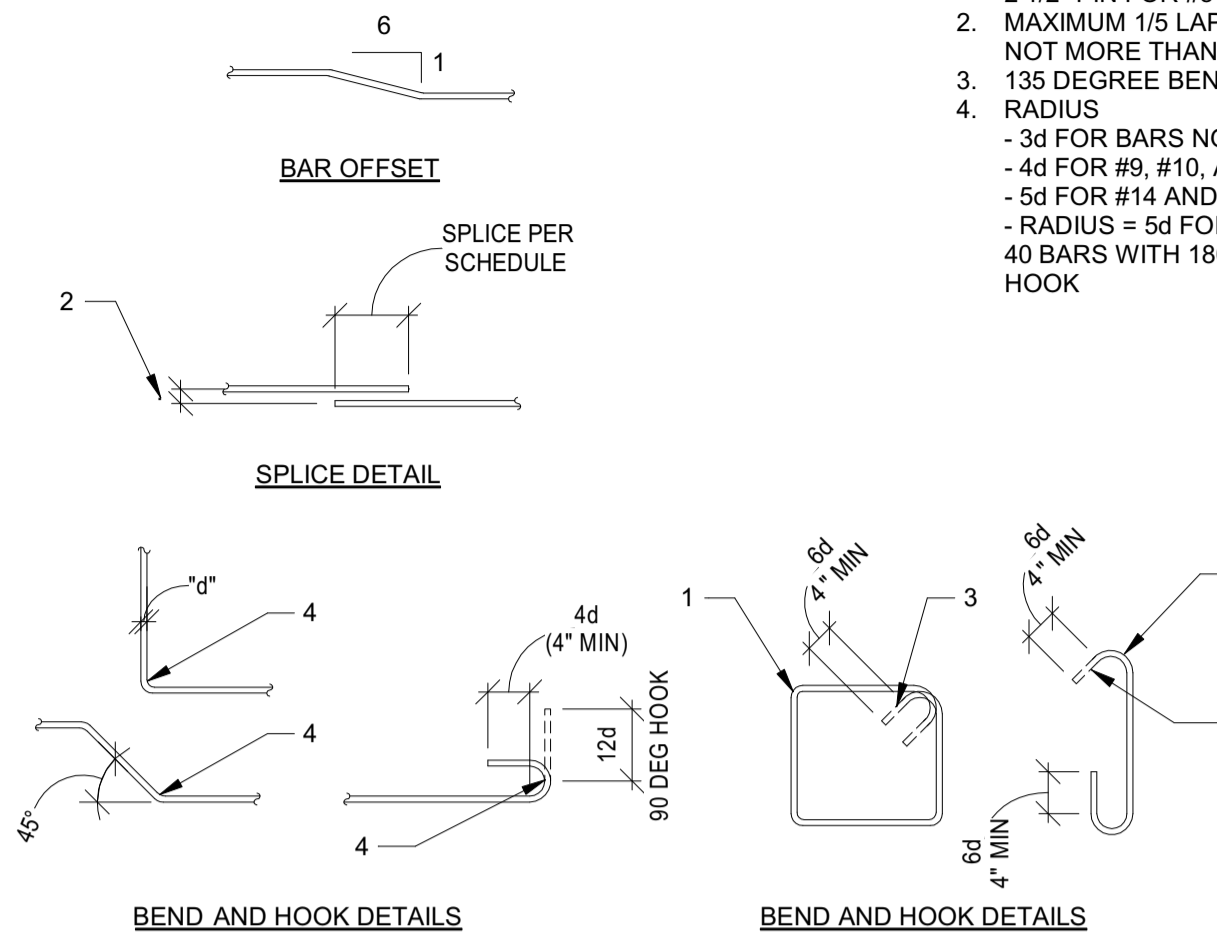
Scale As indicated

1. CONCRETE WALL FOOTING.
2. CONCRETE OR MASONRY WALL ABOVE.
3. MAXIMUM SLOPE BETWEEN BOTTOMS OF FOOTINGS SHALL BE 45 DEGREES. STEP FOOTINGS AS REQUIRED. SEE TYPICAL STEPPED FOOTING DETAIL.



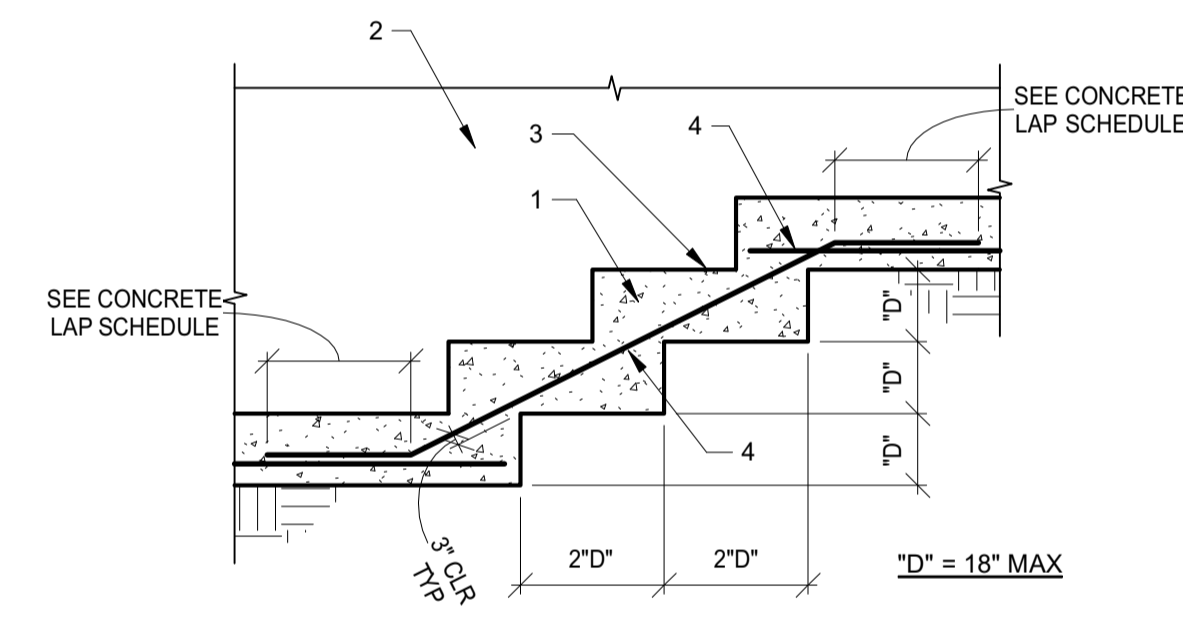
C1 TYPICAL MAXIMUM SLOPE BETWEEN ADJACENT FOOTINGS
NO SCALE 105-12

1. BEND AROUND 1 1/2" PIN FOR #3 BARS. BEND AROUND 2" PIN FOR #4 BARS. BEND AROUND 2 1/2" PIN FOR #5 BARS.
2. MAXIMUM 1/5 LAP LENGTH BUT NOT MORE THAN 6". 1" MIN.
3. 135 DEGREE BENDS
4. RADIUS
- 3d FOR BARS NOT OVER #8
- 4d FOR #9, #10, AND #11 BARS
- 5d FOR #14 AND #18
- RADIUS = 5d FOR ALL GRADE 40 BARS WITH 180 DEGREE HOOK



C2 TYPICAL CONCRETE AND MASONRY REINFORCING BAR DETAILS
NO SCALE 103-02

1. CONCRETE WALL FOOTING.
2. CONCRETE OR MASONRY WALL ABOVE.
3. TOP OF WALL FOOTING.
4. WALL FOOTING LONGITUDINAL REINFORCING



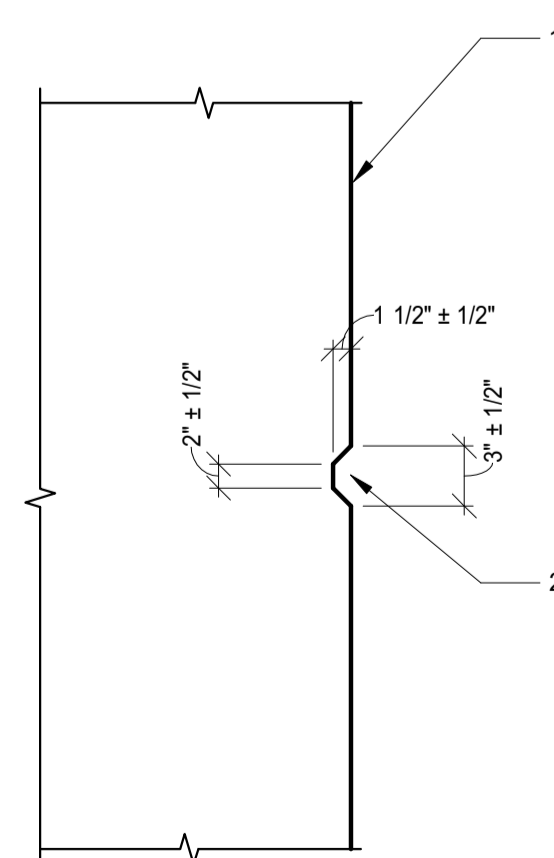
B1 TYPICAL STEPPED FOOTING
NO SCALE 105-10

1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCING.
2. THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE.

CONCRETE STRENGTH		CLASS B TENSION SPLICE LENGTH, INCHES					
		f _c >= 2,500 PSI / 3,000 PSI		f _c >= 4,000 PSI		f _c >= 5,000 PSI	
BAR SIZE	BAR GRADE	BAR LOCATION		BAR LOCATION		BAR LOCATION	
		OTHER	TOP	OTHER	TOP	OTHER	TOP
#3	Gr 60	24"	31"	19"	24"	17"	22"
#4	Gr 60	32"	41"	25"	32"	22"	29"
#5	Gr 60	39"	51"	31"	40"	28"	36"
#6	Gr 60	47"	61"	37"	48"	33"	43"
#7	Gr 60	69"	89"	54"	70"	49"	63"
#8	Gr 60	78"	102"	62"	80"	55"	72"
#9	Gr 60	88"	115"	70"	91"	63"	81"
#10	Gr 60	99"	129"	79"	102"	70"	91"

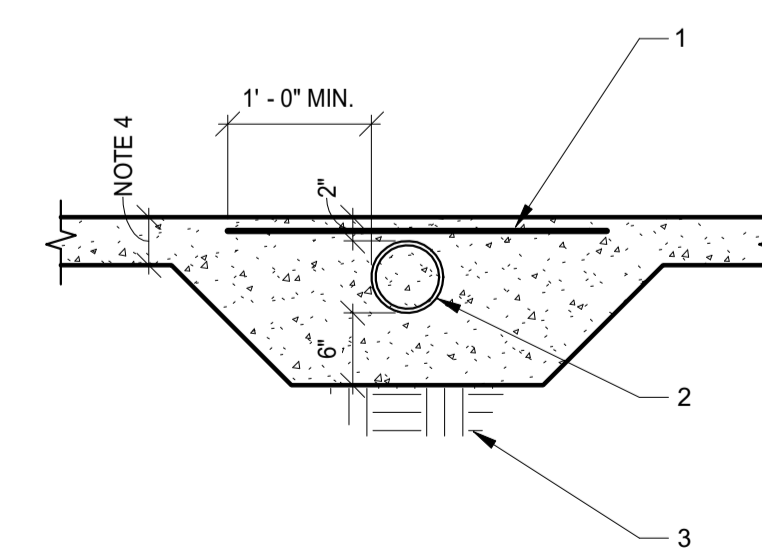
B2 TYPICAL LAP SPLICE IN CONCRETE
NO SCALE 103-01C

1. CONCRETE.
2. REMOVE FORM MATERIAL PRIOR TO PLACING ADJACENT CONCRETE.

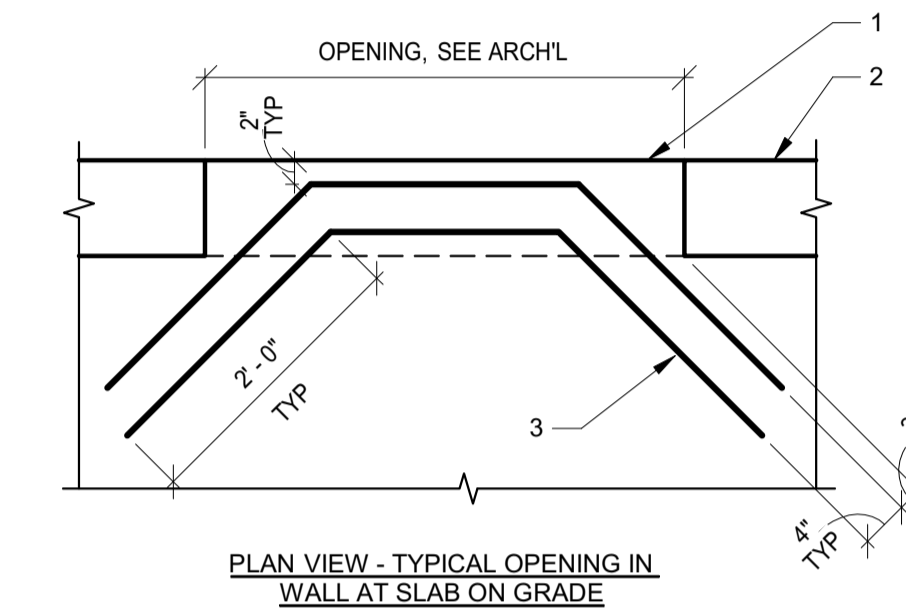


A1 TYPICAL KEY IN CONCRETE
NO SCALE 105-01

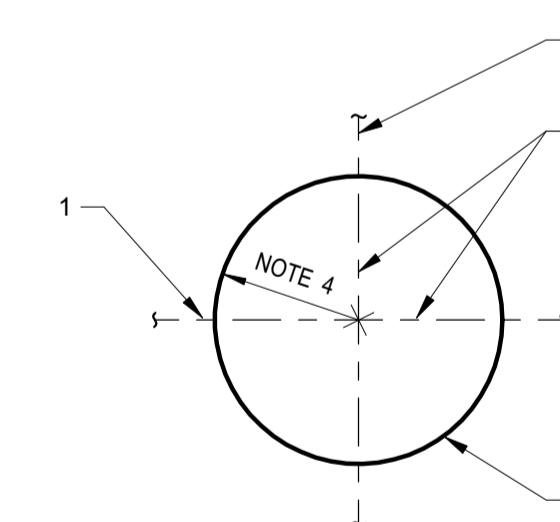
1. 4x4 - W1.4xW1.4 WWF OR #4 AT 12" O.C.
2. PIPE OR CONDUIT.
3. FIRM UNDISTURBED SOIL OR COMPACTED BASE.
4. TYPICAL SLAB THICKNESS.



A2 SLEEVE FOR PIPE AT SLAB ON GRADE
NO SCALE 101-12



B3 TYPICAL REENTRANT CORNER REINFORCING IN SLAB ON GRADE
NO SCALE 101-10



A3 TYPICAL COLUMN CLOSURE POUR AT CONCRETE SLAB ON GRADE
NO SCALE 101-05

1. CONCRETE CONSTRUCTION JOINT OR EDGE OF SLAB.
2. CONCRETE OR MASONRY WALL.
3. (2) #3 CENTERED IN SLAB AT OPENINGS IN WALLS.
4. (2) #3 CENTERED IN SLAB AT ALL REENTRANT CORNERS.

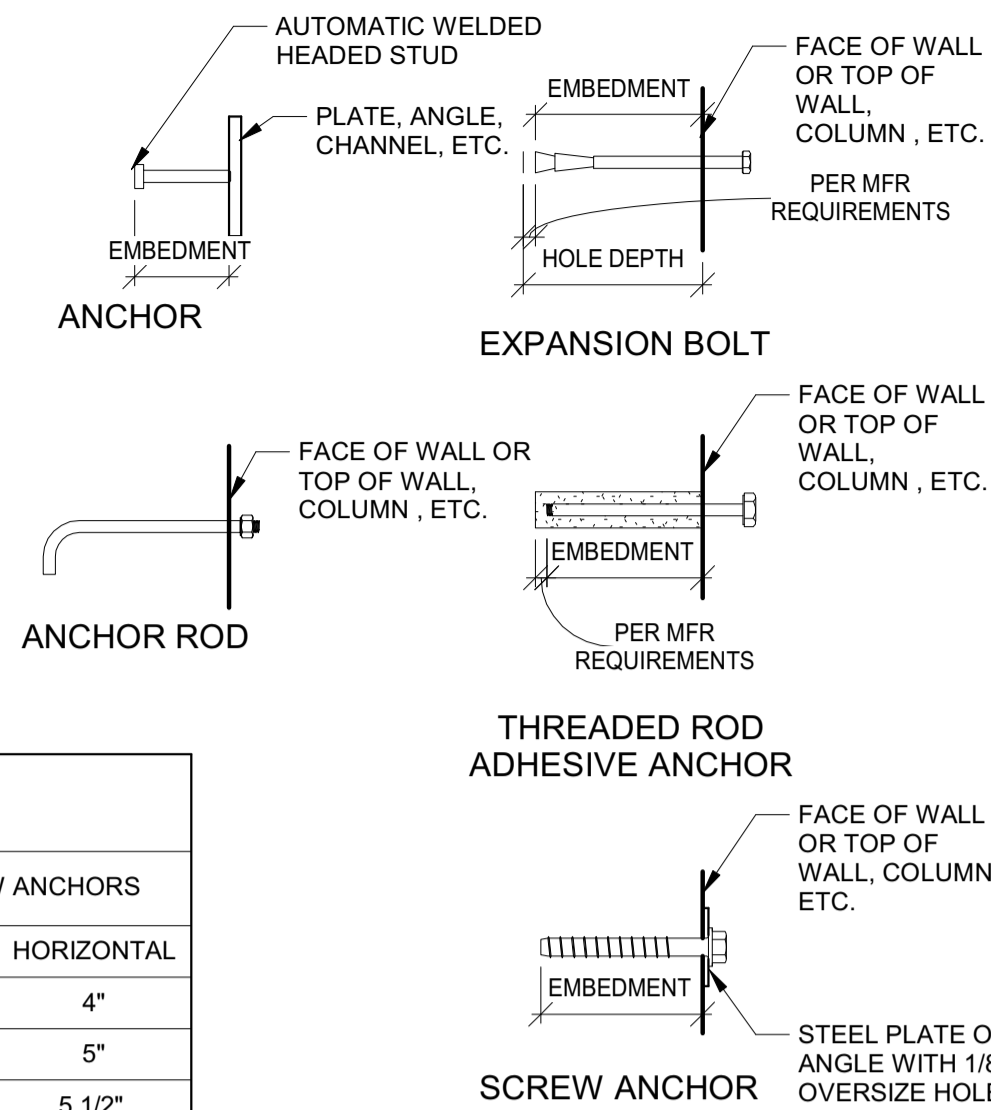
1. 'CONC C' WHERE SHOWN ON PLAN.
2. CENTERLINE OF COLUMN.
3. KEYED JOINT - SEE TYPICAL KEY IN CONCRETE DETAIL.
4. 1'-6" MIN./3'-0" MAX.
5. 2'-0" MIN./4'-0" MAX.
6. CONCRETE SLAB ON GRADE
7. LINE OF CONCRETE CLOSURE POUR OR SLAB AS OCCURS.

- NOTE:
- COLUMNS OMITTED FOR CLARITY.
 - FOR CONFIGURATION OF SPECIFIC CLOSURE POURS, SEE PLAN.

SELF CERTIFIED BY: DONALD ANDREWS DATE: 03/06/2019
CERTIFICATE #45
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ANCHOR DIAMETER	ANCHOR AND ANCHOR RODS		EXPANSION ANCHORS	THREADED ROD ADHESIVE ANCHORS	REBAR ADHESIVE ANCHORS	SCREW ANCHORS
	VERTICAL	HORIZONTAL				
1/2" (#4)	5"	4"	5"	4"	4"	4"
5/8" (#5)	6 1/2"	4 1/2"	6 1/8"	5"	5"	4 3/8"
3/4" (#6)	7"	5"	7 1/2"	6"	6"	6 1/4"
7/8" (#7)	8"	6"	-	7"	7"	-
1" (#8)	9"	7"	9 3/4"	8"	8"	-
1 1/4"	11"	9"	-	-	-	-
1 1/2"	12"	10"	-	-	-	-

ANCHOR DIAMETER	ANCHOR AND ANCHOR RODS		EXPANSION ANCHORS		THREADED ROD ADHESIVE ANCHORS		SCREW ANCHORS	
	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL
1/2" (#4)	5"	4"	3"	3 1/2"	4 1/2"	4 1/2"	4 1/2"	4"
5/8" (#5)	6 1/2"	4 1/2"	3 1/2"	4 3/8"	5 5/8"	5 5/8"	4 1/2"	5"
3/4" (#6)	7"	5"	-	5 1/4"	-	6 3/4"	-	5 1/2"



- NOTES:
- FOR APPROVED MANUFACTURERS OF EXPANSION BOLTS, ADHESIVE ANCHORS AND SCREW ANCHORS IN CONCRETE AND MASONRY, SEE GENERAL STRUCTURAL NOTES
 - PROVIDE ANCHORS, ANCHOR RODS, EXPANSION BOLTS, ADHESIVE ANCHORS, AND SCREW ANCHORS PER THIS SCHEDULE UNLESS NOTED OTHERWISE ON PLAN OR DETAILS
 - ANCHORS, ANCHOR RODS, EXPANSION BOLTS, ADHESIVE ANCHORS, AND SCREW ANCHORS USED IN MASONRY SHALL BE INSTALLED IN GROUTED CELLS, IF GROUTED CELLS ARE NOT ENCOUNTERED, BREAK INTO CELL AND GROUT SOLID FOR 8" MINIMUM ABOVE AND BELOW BOLT LOCATION.
 - ANCHOR RODS, EXPANSION BOLTS, THREADED ANCHORS, AND SCREW ANCHORS SHALL BE INSTALLED WITH STEEL WASHERS.
 - THREADED ROD AND ADHESIVE SHALL BE SUPPLIED BY THE SAME APPROVED MANUFACTURER.

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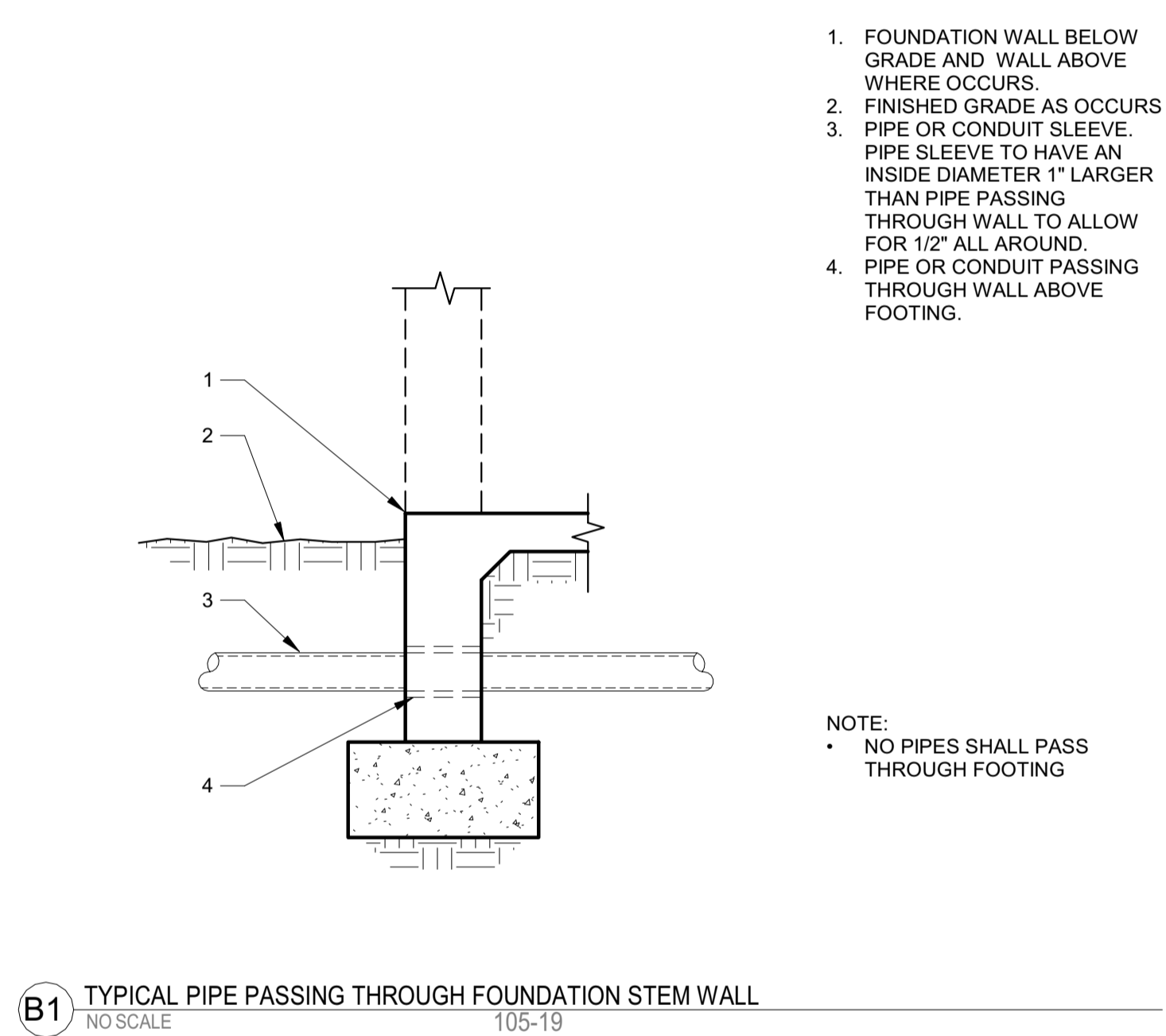
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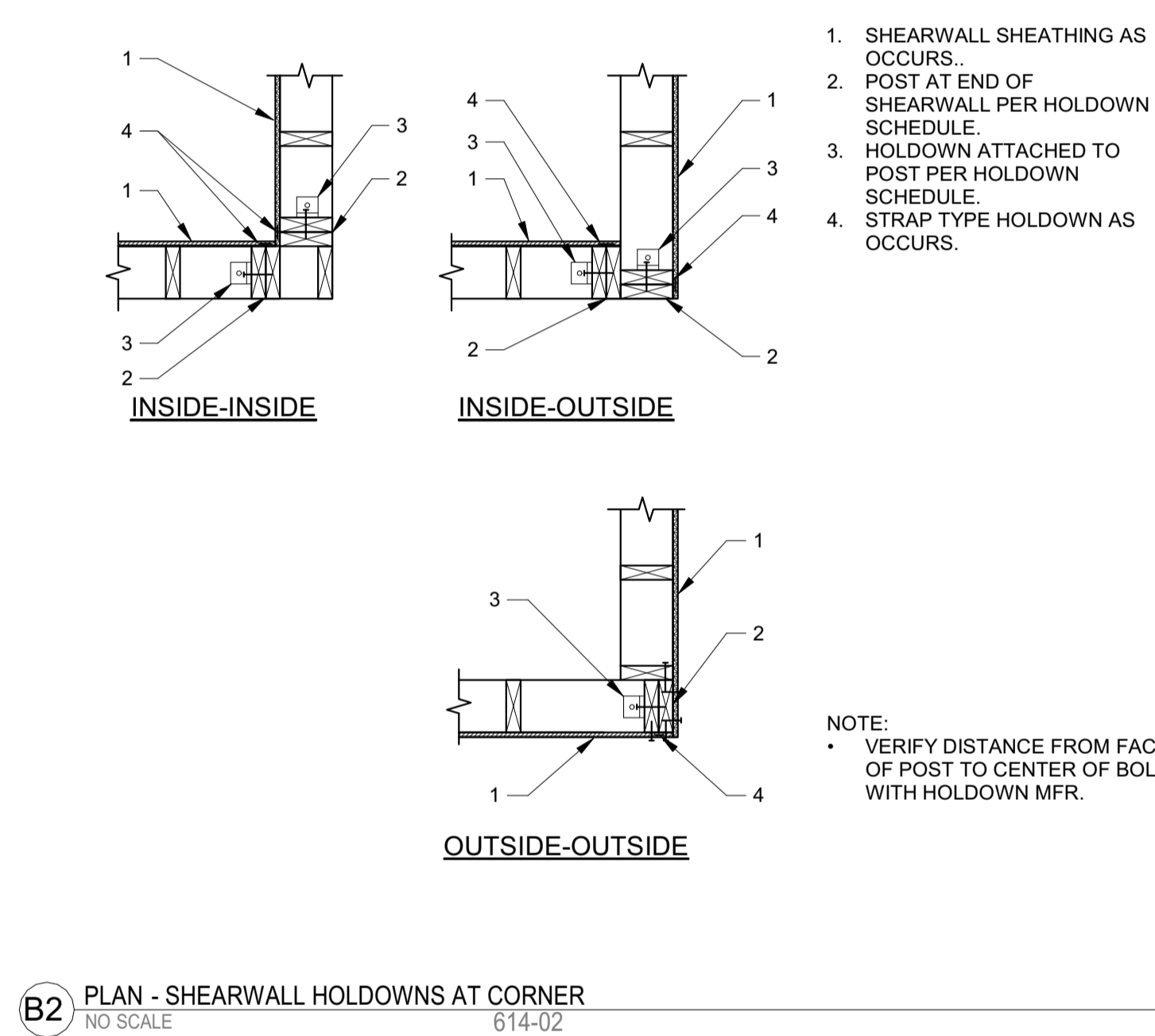
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C1 TYPICAL ANCHOR, ANCHOR ROD, EXPANSION BOLT, ADHESIVE ANCHORS, AND SCREW ANCHOR SCHEDULE
NO SCALE 401-01



B1 TYPICAL PIPE PASSING THROUGH FOUNDATION STEM WALL
NO SCALE 105-19

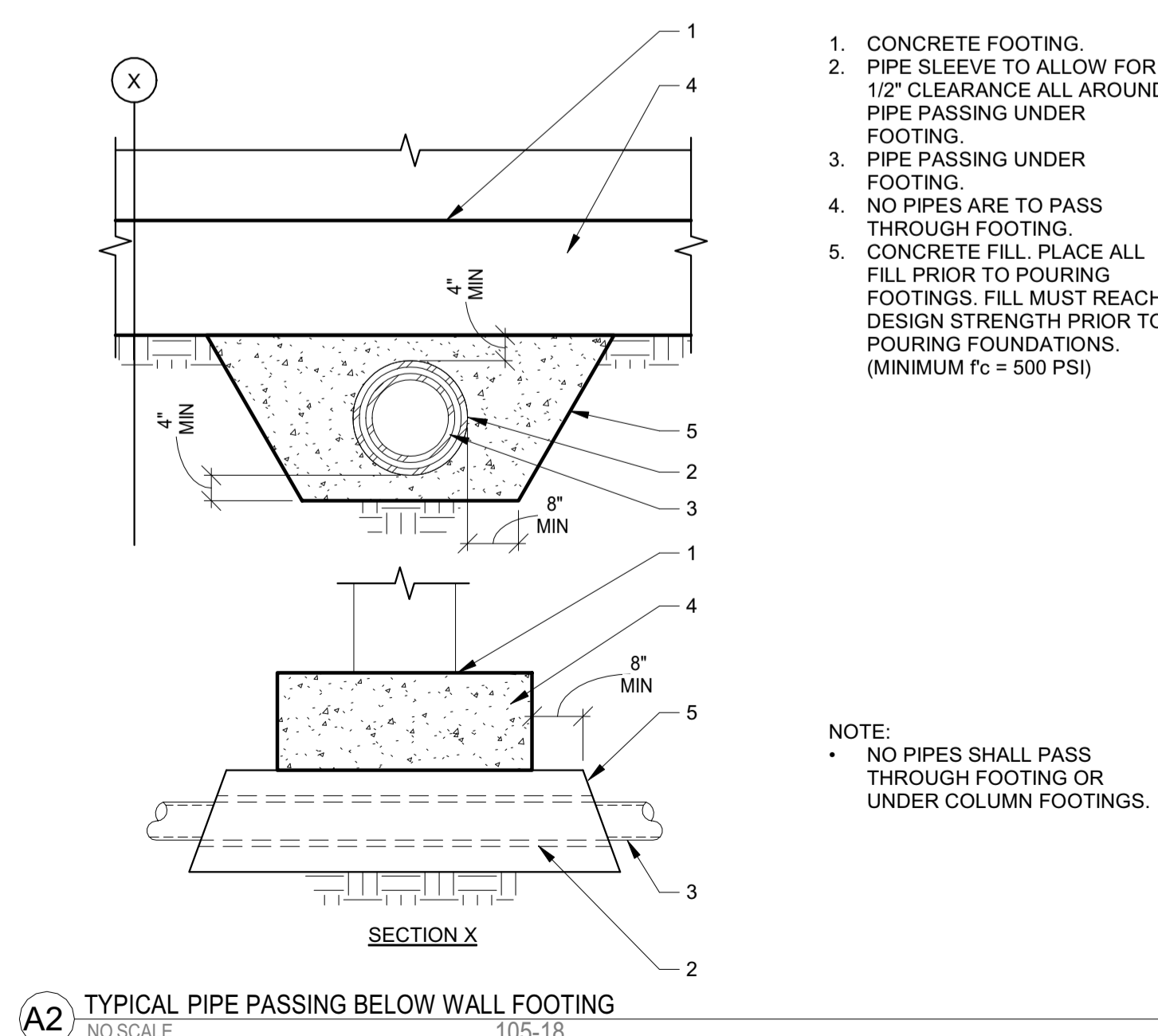


B2 PLAN - SHEARWALL HOLDOWNS AT CORNER
NO SCALE 614-02

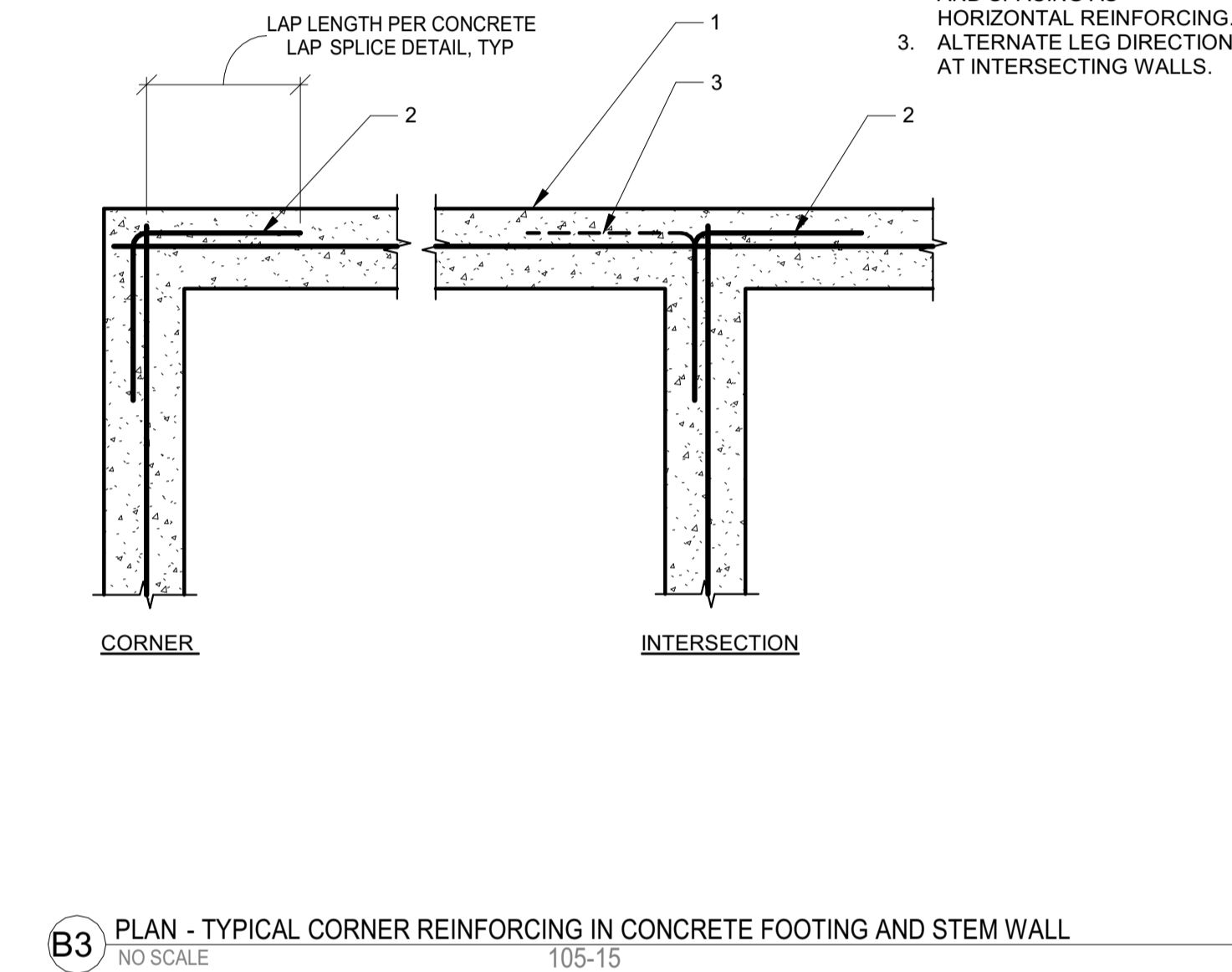
NOMINAL BEAM DEPTH "D"	NUMBER OF 3/4" DIAMETER BOLTS (ASTM F1652)
UP TO 7"	2
8" - 11"	2
12" - 14"	3
15" - 17"	4
18" - 20"	5
21" - 23"	6
24" - 29"	7
30" - 32"	8
33" - 35"	9
36"	10

1. THE TYPICAL STEEL BEAM TO STEEL COLUMN OR STEEL BEAM TO STEEL BEAM CONNECTION CONSISTS OF 3/8" SINGLE SHEAR PLATES WITH BOLTS PER SCHEDULE. USE 5/8" SHEAR PLATES WHERE "D" = 27" OR GREATER.
2. FABRICATOR SHALL TAKE NECESSARY PRECAUTIONS AGAINST BOLT SHANK OUT.
3. FABRICATOR'S OPTION:
4. PROVIDE THICKER SHEAR PLATE.
5. PROVIDE MULTIPLE WASHERS AT EITHER END OF BOLT (2 MAXIMUM PER END).

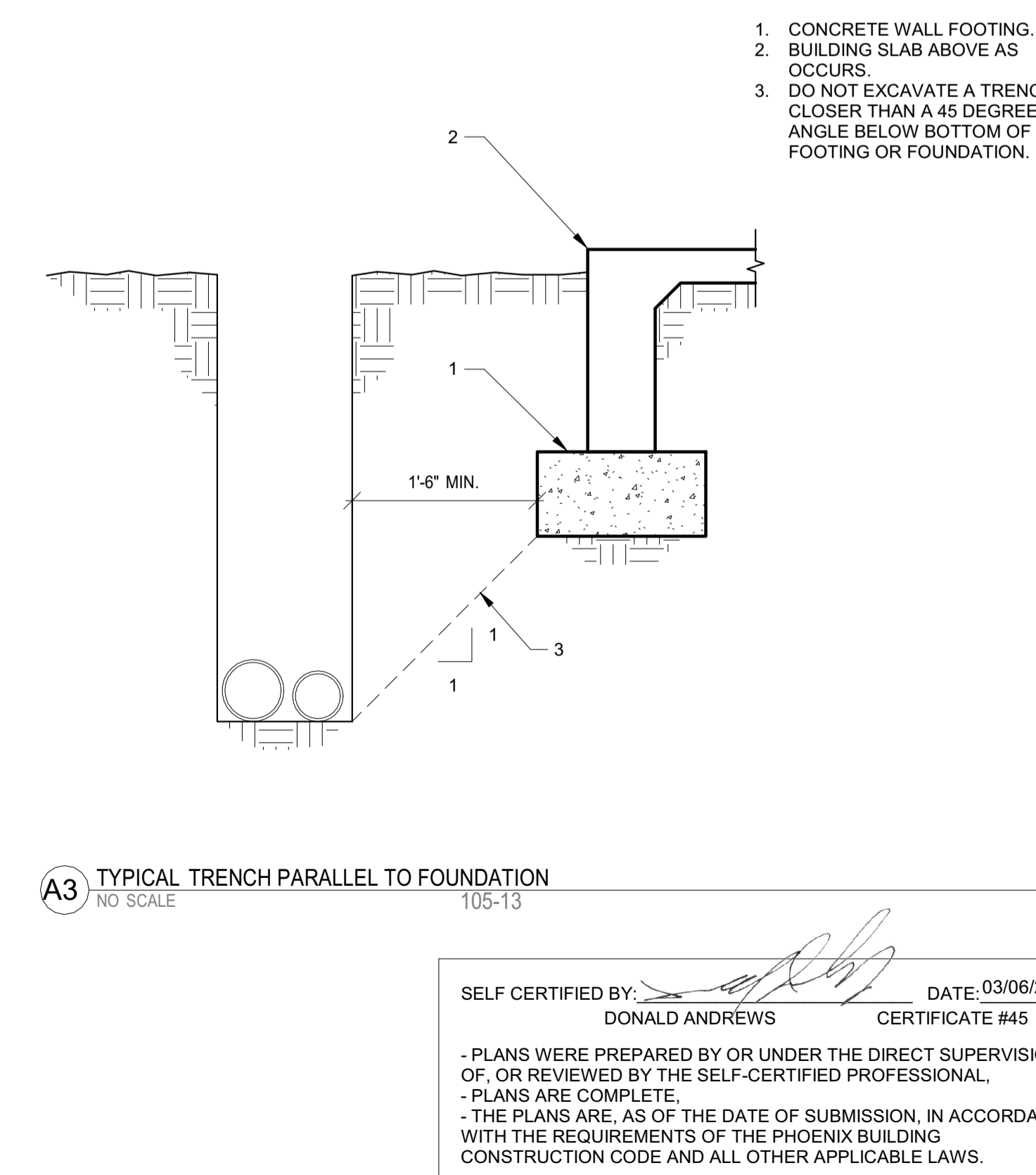
A1 TYPICAL BOLT SCHEDULE FOR TYPICAL STEEL CONNECTIONS
NO SCALE 401-03



A2 TYPICAL PIPE PASSING BELOW WALL FOOTING
NO SCALE 105-18



B3 PLAN - TYPICAL CORNER REINFORCING IN CONCRETE FOOTING AND STEM WALL
NO SCALE 105-15



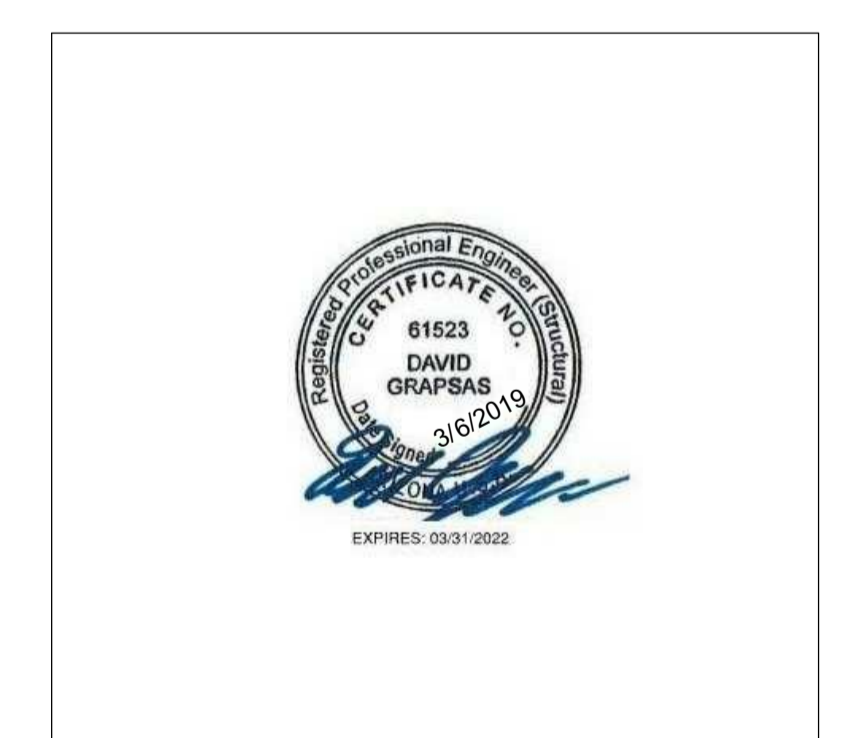
A3 TYPICAL TRENCH PARALLEL TO FOUNDATION
NO SCALE 105-13

SELF CERTIFIED BY: Donald Andrews DATE: 03/06/2019
DONALD ANDREWS CERTIFICATE #45

- PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL,
- PLANS ARE COMPLETE,
- THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE



Owner JONATHAN PITT
Proj. Name WANDERIST OFFICE & RETAIL

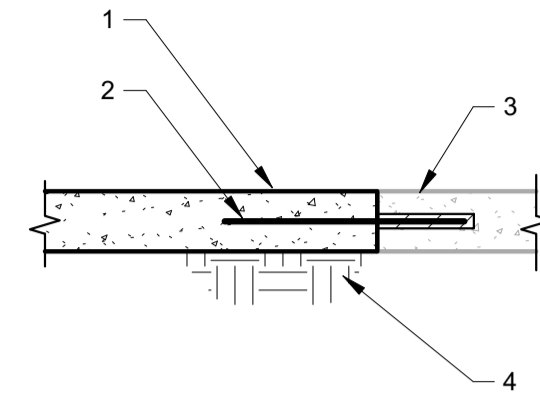
TYPICAL DETAILS

Date 03/06/2019

S1.2

Scale As indicated

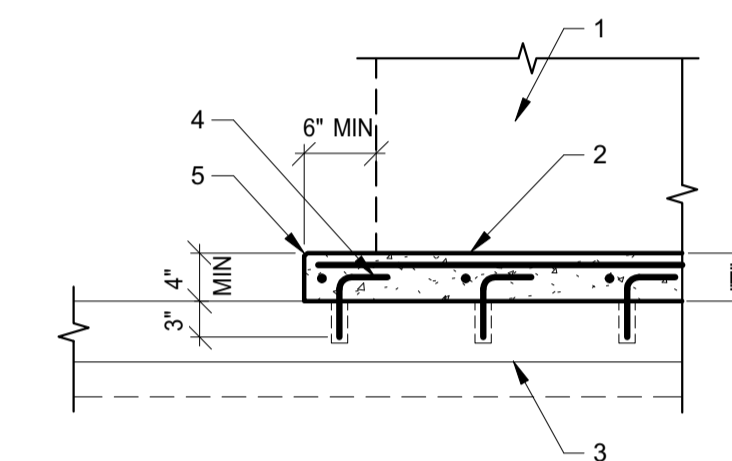
1. CONCRETE SLAB ON GRADE
2. #4 x 1'-8" LONG EMBEDDED 6" INTO EXISTING CONCRETE SLAB AND SET IN EPOXY. SPACE AT 24" O.C.
3. EXISTING CONCRETE SLAB ON GRADE.
4. FOR SUBBASE REQUIREMENTS SEE GSN AND SOILS REPORT.



C3 TYPICAL CONCRETE SLAB AT EXISTING CONCRETE SLAB
NO SCALE 912-01

"T"	RIENFORCING
4"	#3 AT 18" O.C. EACH WAY
6"	#4 AT 16" O.C. EACH WAY
8"	#4 AT 12" O.C. EACH WAY
1'-2"	#5 AT 12" O.C. EACH WAY
1'-6"	#4 AT 16" O.C. EACH WAY TOP AND BOTTOM

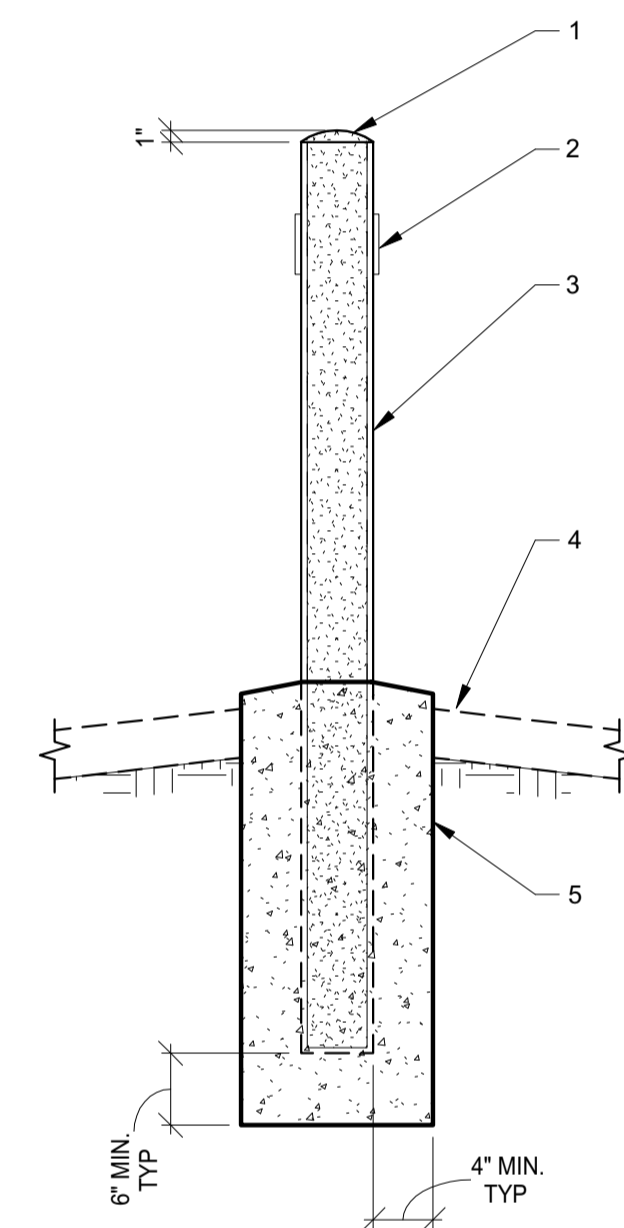
1. EQUIPMENT.
2. CONCRETE HOUSEKEEPING PAD.
3. EXISTING CONCRETE SLAB ON GRADE.
4. #3 WITH 4" HOOK AT 18" O.C. EACH WAY. SET IN EPOXY.
5. TOOLED EDGE.



NOTE:
 • FOR EQUIPMENT PAD THICKNESS, SIZE AND LOCATION, SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
 • EXACT DIMENSIONS AND LOCATIONS ARE SUBJECT TO VERIFICATION PRIOR TO CONSTRUCTION DUE TO VENDOR SPECIFIC INFORMATION.

B4 TYPICAL HOUSEKEEPING PAD AT SLAB ON GRADE
NO SCALE 101-21A

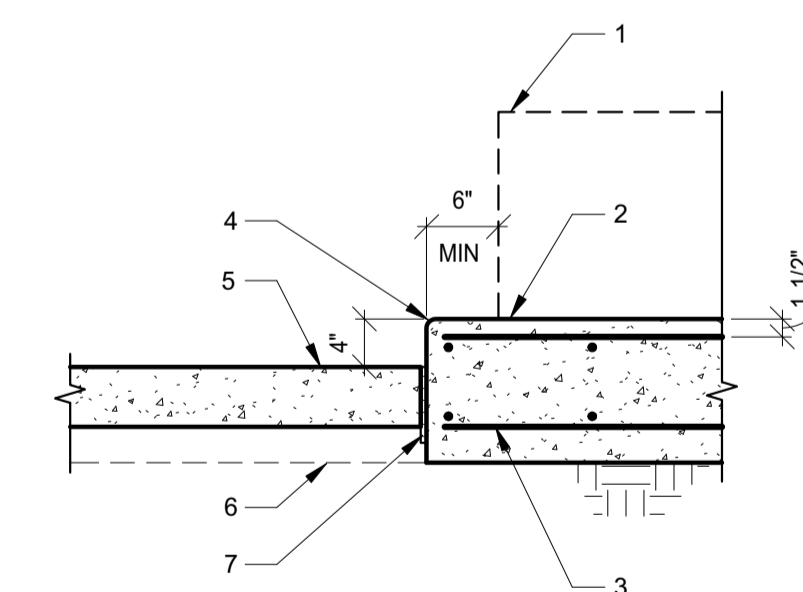
- NOTES:
 • SAFETY POST SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF CITY OR AHJ



1. FILL WITH GROUT AND CROWN TOP.
2. REFLECTIVE ENGINEERS TAPE PER ARCH'L DRAWINGS.
3. 4" OR 6" STD x 8'-6" STEEL POST. SCHEDULE 40; GALVANIZED.
4. FINISHED GRADE, CONCRETE SLAB, OR ASPHALT AS OCCURS.
5. CONCRETE FOOTING (CLASS B) Fc = 2,500

B3 STEEL SAFETY POST (BOLLARD)
NO SCALE 192-01

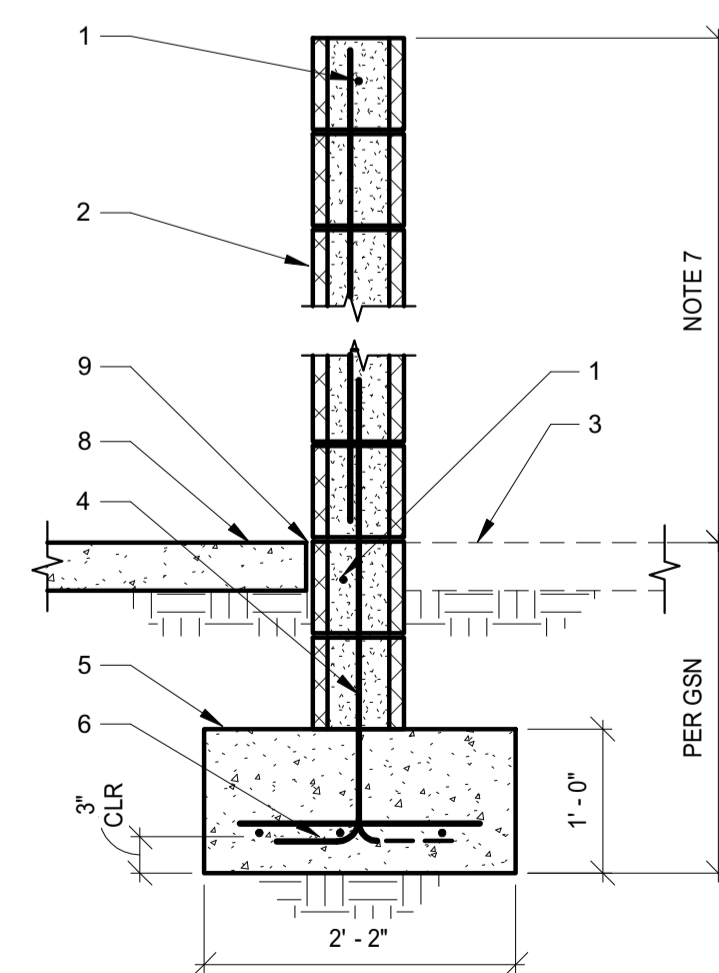
1. EQUIPMENT.
2. MINIMUM 12" THICK CONCRETE SLAB ON SUBGRADE.
3. #4 AT 12" O.C. EACH WAY TOP AND BOTTOM.
4. TOOLED EDGE.
5. CONCRETE SLAB.
6. FOR SUBBASE REQUIREMENTS, SEE PLANS.
7. 1/2"x6" EXPANSION MATERIAL - TYPICAL ALL SIDES.



NOTE:
 • COORDINATE EQUIPMENT PAD EDGE DIMENSION AND FLOOR REQUIREMENTS WITH MECHANICAL DRAWINGS.

A4 THICKENED SLAB AT EQUIPMENT PAD
NO SCALE 101-18

1. (1) #5 IN 8" DEEP CONTINUOUS GROUTED BOND BEAM.
2. 8" MASONRY WALL WITH #5 VERTS AT 8" O.C. GROUT SOLID.
3. FINISHED GRADE OR CONCRETE SLAB AS OCCURS.
4. DOWELS TO MATCH AND LAP VERTICAL WALL REINFORCING. LAP PER TYPICAL LAP SCHEDULE.
5. CONCRETE FOOTING WITH (3) #5 CONTINUOUS AND #5 AT 48" O.C. TRANSVERSE.
6. STANDARD 90 DEGREE HOOK. ALTERNATE BENDS.
7. FOR TOP OF WALL ELEVATION SEE ARCHITECTURAL, 6'-0" MAXIMUM.
8. 6" THICK CONCRETE SLAB ON GRADE WITH W2.9xW2.9 6x6 WWF CENTERED IN SLAB OVER A.B.C. FILL.
9. EXPANSION FILLER.



- NOTES:
 • TRASH ENCLOSURE SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF CITY OR AHJ

A3 6'-0" MAXIMUM FREE STANDING TRASH ENCLOSURE MASONRY WALL AND FOOTING
NO SCALE 198-05



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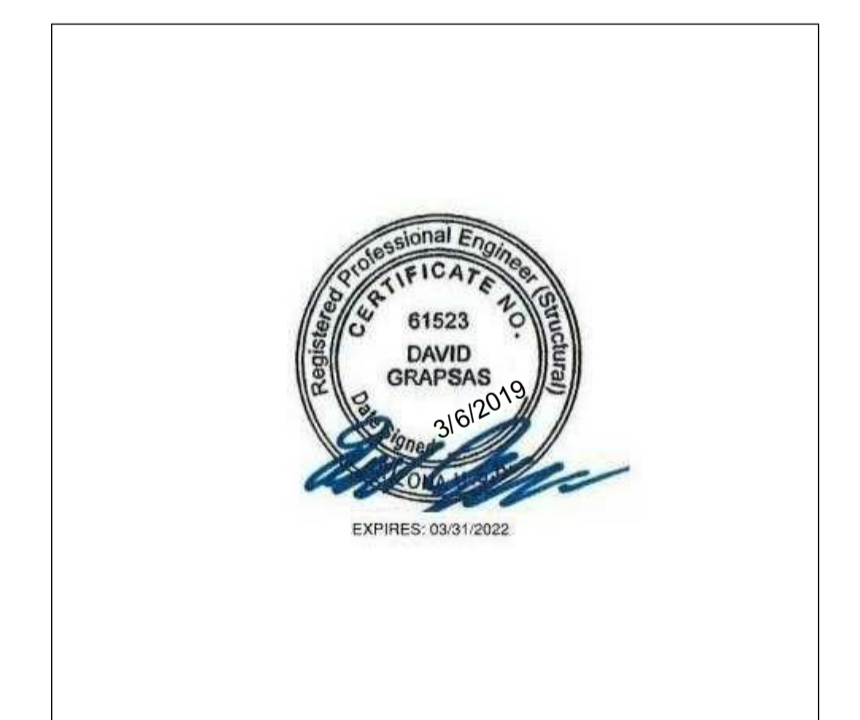
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SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE



Owner JONATHAN PITT
 Proj. Name WANDERIST OFFICE & RETAIL

TYPICAL DETAILS

Date 03/06/2019

S1.3

Scale 3/4" = 1'-0"

SELF CERTIFIED BY: DONALD ANDREWS DATE: 03/06/2019
 CERTIFICATE #45

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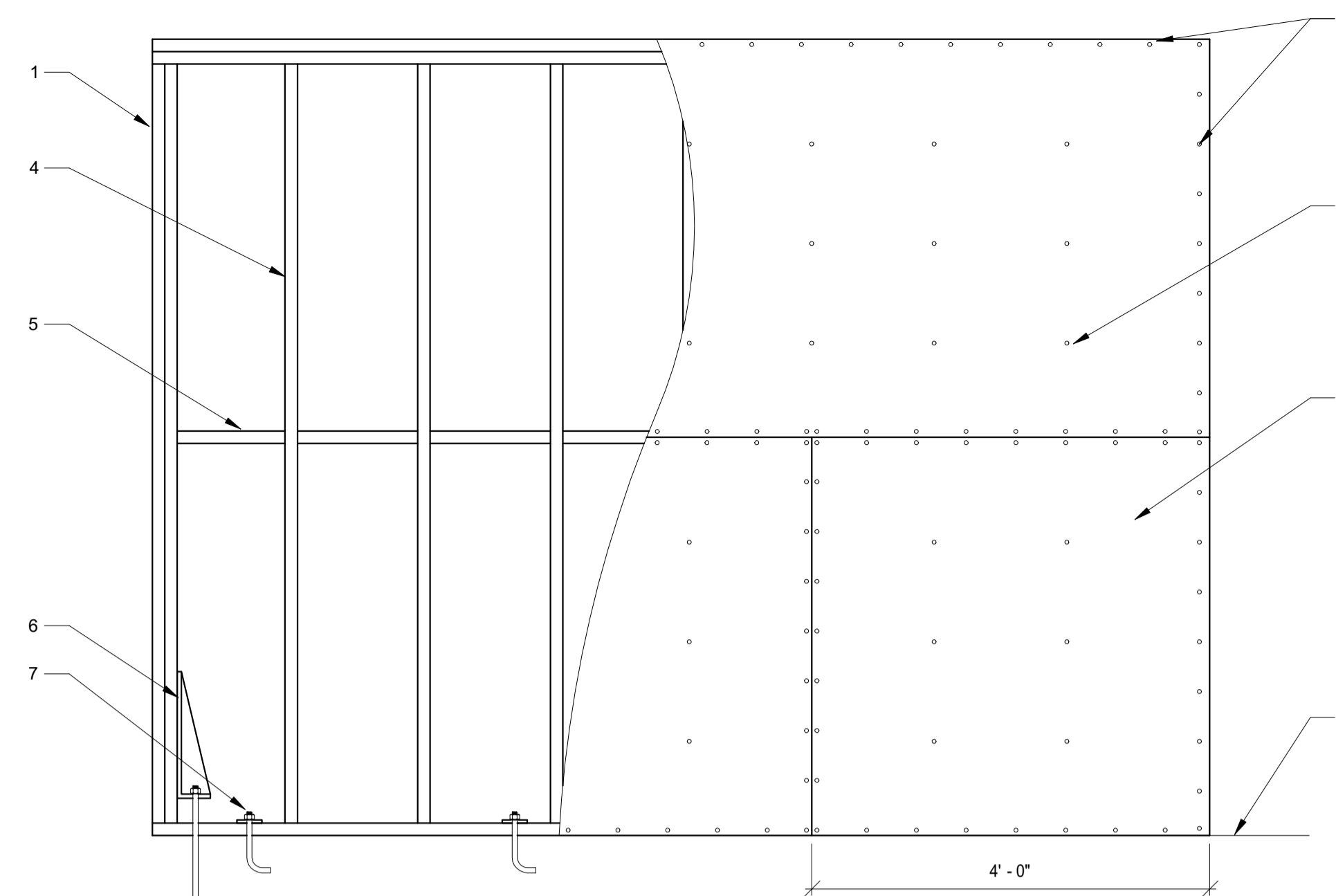
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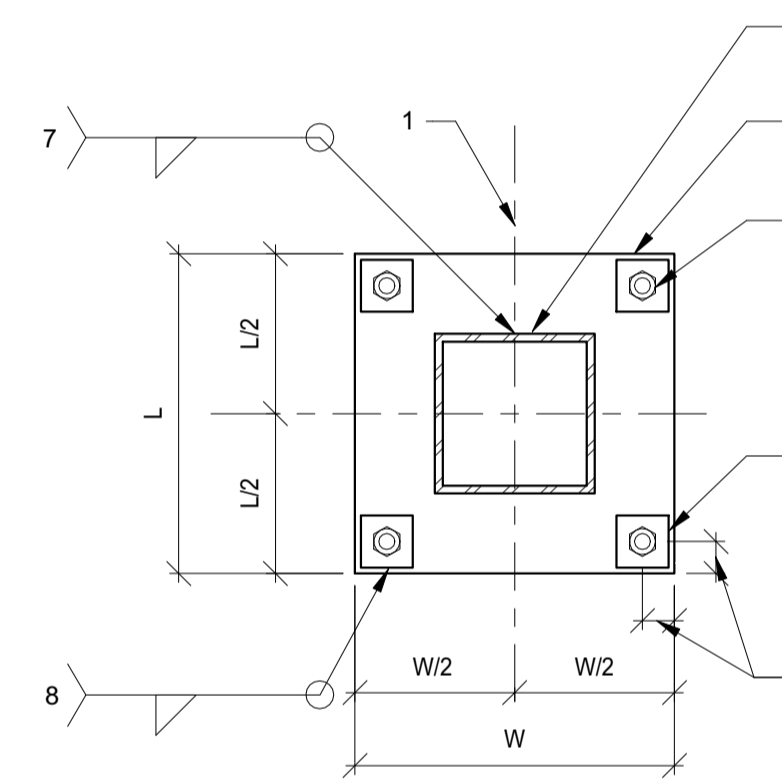
C1 ONE STORY SHEAR WALL ELEVATION
NO SCALE 612-05

- MULTIPLE STUDS AT END OF PANEL NAILED AT BUILT-UP POST. (MIN. 2 U.N.O.) - TYP.
- EDGE NAILING - SEE SHEAR WALL SCHEDULE AND GSN.
- INTERMEDIATE NAILING - SEE SHEAR WALL SCHEDULE AND GSN.
- WOOD STUDS.
- BLOCKING REQUIRED AT SHEATHING PANEL JOINTS.
- HOLD-DOWN - FOR SIZE AND LOCATION - SEE FOUNDATION PLAN AND SHEAR WALL SCHEDULE.
- ANCHOR RODS - FOR SIZE AND SPACING, SEE GENERAL STRUCTURAL NOTES.
- SHEATHING MATERIAL
- FINISHED FLOOR.

NOTE:
WHEN SHEATHING TYPE MATERIAL IS GYPSUM BOARD, INTERMEDIATE NAILING IS THE SAME SIZE AND SPACING AS EDGE NAILING.

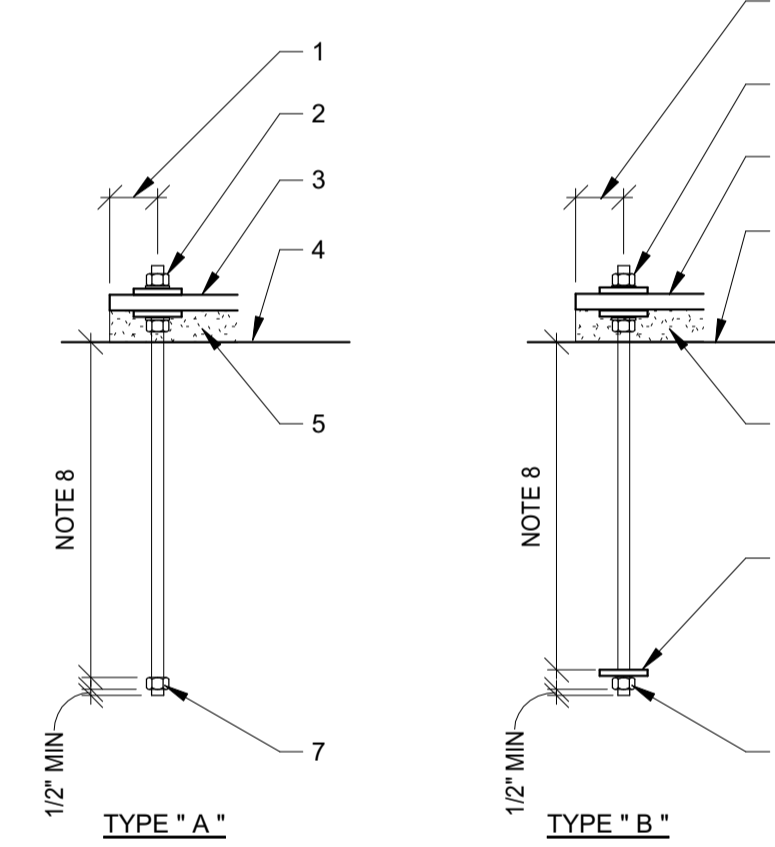
DESCRIPTION OF BUILDING ELEMENTS	CONNECTION*
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	(3)8d COMMON; EACH END, TOENAIL; (3)10d BOX; EACH END, TOENAIL
2. CEILING JOISTS TO TOP PLATE	(2)8d COMMON; EACH END, TOENAIL (2)16d COMMON; END NAIL (3)10d BOX; EACH END, TOENAIL (3)16d COMMON; FACE NAIL
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST)	(3)8d COMMON; EACH END, TOENAIL (4)10d BOX; FACE NAIL PER IBC TABLE 2308.7.3.1
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	(3)10d COMMON; FACE NAIL (4)10d BOX; FACE NAIL
5. COLLAR TIE TO RAFTER	(3)10d COMMON; FACE NAIL (4)10d BOX; FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE	(3)10d COMMON; FACE NAIL (3)16d BOX; FACE NAIL (4)10d BOX; FACE NAIL
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2-INCH RIDGE BEAM	(2)16d COMMON; END NAIL (3)10d BOX; END NAIL (3)10d COMMON; TOENAIL (3)16d BOX; TOENAIL (4)10d BOX (3" x 0.128")
8. STUD TO STUD (NOT AT BRACED WALL PANELS)	16d COMMON; 24" O.C. FACE NAIL 10d BOX; 16" O.C. FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON; 16" O.C. FACE NAIL 16d BOX; 12" O.C. FACE NAIL
10. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON; 16" O.C. EACH EDGE, FACE NAIL 16d BOX; 12" O.C. EACH EDGE, FACE NAIL
11. CONTINUOUS HEADER TO STUD	(4)8d COMMON; TOENAIL (4)10d BOX; TOENAIL
12. TOP PLATE TO TOP PLATE	16d COMMON; 16" O.C. FACE NAIL 10d BOX; 12" O.C. FACE NAIL
13. TOP PLATE TO TOP PLATE, AT END JOINTS	(8)16d COMMON OR (12)10d BOX; EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON; 16" O.C. FACE NAIL 16d BOX; 12" O.C. FACE NAIL
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	(2)16d COMMON; 16" O.C. FACE NAIL (3)16d BOX; 16" O.C. FACE NAIL (4)8d COMMON; TOENAIL (4)10d BOX; TOENAIL
16. STUD TO TOP OR BOTTOM PLATE	(2)16d COMMON; END NAIL (3)10d BOX; END NAIL
17. TOP OR BOTTOM PLATE TO STUD	(2)16d COMMON; END NAIL (3)10d BOX; END NAIL
18. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	(2)16d COMMON; FACE NAIL (3)10d BOX; FACE NAIL
19. 1" BRACE TO EACH STUD AND PLATE	(2)8d COMMON; FACE NAIL (2)10d BOX; FACE NAIL
20. 1" x 6" SHEATHING TO EACH BEARING	(2)8d COMMON; FACE NAIL (2)10d BOX; FACE NAIL
21. 1" x 8" AND WIDER SHEATHING TO EACH BEARING	(3)8d COMMON; FACE NAIL (3)10d BOX; FACE NAIL
22. JOIST TO SILL, TOP PLATE, OR GIRDER	(3)8d COMMON; TOENAIL (3)10d BOX; TOENAIL
23. RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON; 6" O.C. TOENAIL 10d BOX; 6" O.C. TOENAIL
24. 1" x 6" SUBFLOOR OR LESS TO EACH JOIST	(2)8d COMMON; FACE NAIL (2)10d BOX; FACE NAIL
25. 2" SUBFLOOR TO JOIST OR GIRDER	(2)16d COMMON; FACE NAIL
26. 2" PLANKS (PLANK & BEAM FLOOR & ROOF)	(2)16d COMMON; EACH BEARING, FACE NAIL
27. BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS	20d COMMON; 32" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES. 10d BOX; 24" O.C. FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES. AND: (2)20d COMMON; ENDS AND AT EACH SPLICE, FACE NAIL (3)10d BOX; ENDS AND AT EACH SPLICE, FACE NAIL
28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	(3)16d COMMON; EA JOIST OR RAFTER, FACE NAIL (4)10d BOX; EA JOIST OR RAFTER, FACE NAIL
29. JOIST TO BAND JOIST OR RIM JOIST	(3)16d COMMON; END NAIL (4)10d BOX; END NAIL
30. BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	(2)8d COMMON; EACH END TOENAIL (2)10d BOX; EACH END TOENAIL

A1 NAILING SCHEDULE - U.N.O. INTERNATIONAL BUILDING CODE
NO SCALE 601-06



B2 PLAN - TYPICAL TUBE STEEL COLUMN BASE PLATE
NO SCALE 405-06

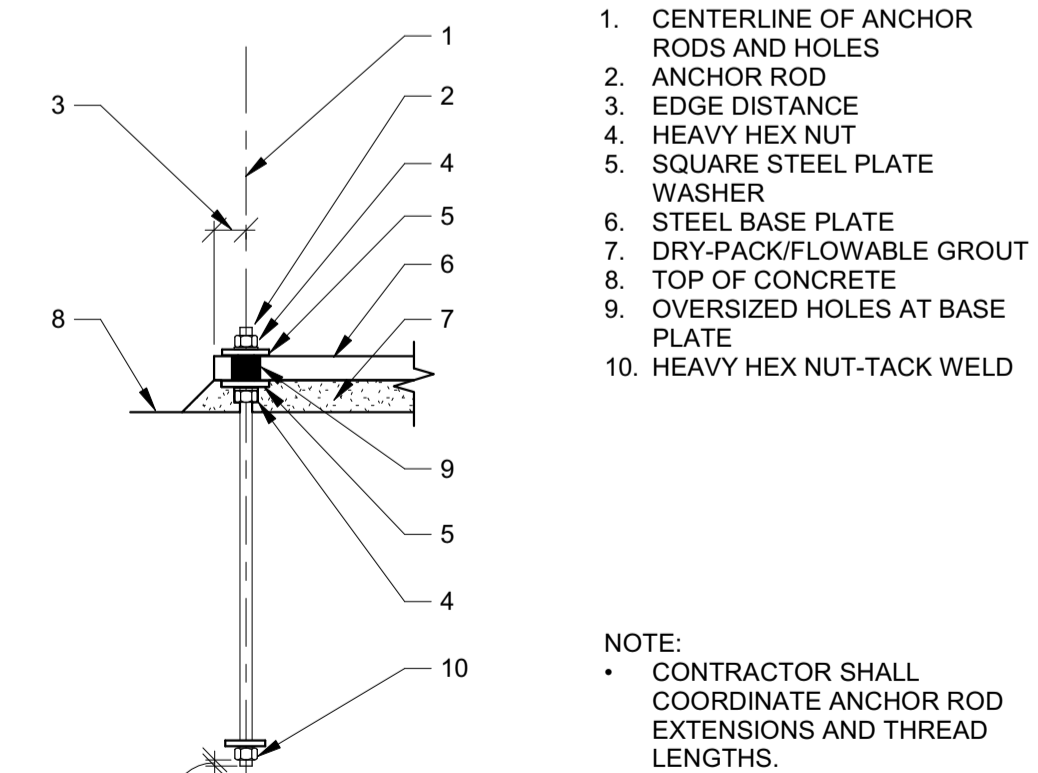
- CENTERLINE OF STEEL COLUMN AND BASE PLATE.
- STEEL COLUMN.
- STEEL BASE PLATE.
- ANCHOR RODS WITH DOUBLE NUTS.
- STEEL PLATE WASHERS PER TYPICAL DETAIL.
- EDGE DISTANCE PER TYPICAL DETAIL.
- 3/16" FILLET WELD AT WALL THICKNESS 1/4" OR LESS, 1/4" FILLET WELD AT WALL THICKNESS 5/16" AND 3/8", AND 5/16" FILLET WELD AT WALL THICKNESS GREATER THAN 3/8".
- WELD TOP STEEL PLATE WASHERS ALL AROUND AT MOMENT FRAME AND BRACED FRAME COLUMNS WHERE NOTED ON PLAN.



B3 TYPICAL ANCHOR BOLT EMBEDMENT
NO SCALE 405-02

STEEL COLUMN BASE PLATES (GRADE 36 ANCHOR RODS WHERE SPECIFICALLY INDICATED)						
F1554, GRADE 36 ANCHOR ROD DIA	STEEL PLATE WASHER (A36)	HOLE SIZE AT STEEL PLATE WASHER	OVERSIZED HOLE DIA AT STEEL BASE PLATE	EDGE DISTANCE OF BASE PLATE TO CENTERLINE OF HOLE	THICKNESS OF GROUT	
3/4"	1/2"x2 1/2"x2 1/2"	13/16"	1 5/16"	1 1/2"	2"	
7/8"	5/8"x2 3/4"x2 3/4"	15/16"	1 9/16"	1 3/4"	2"	
1"	3/4"x3 1/4"x3 1/4"	1 1/16"	1 13/16"	2"	3"	
1 1/4"	1"x3 1/2"x3 1/2"	1 5/16"	2 1/16"	2 1/4"	3"	
1 1/2"	1"x3 3/4"x3 3/4"	1 9/16"	2 5/16"	2 1/2"	3"	
1 3/4"	1 1/4"x4 1/4"x4 1/4"	1 13/16"	2 3/4"	3"	4"	
2"	1 1/4"x5"x5"	2 1/16"	3 1/4"	3 1/2"	4"	
2 1/2"	1 1/2"x5 1/2"x5 1/2"	2 9/16"	3 3/4"	4"	5"	

A2 TYPICAL PLATE WASHERS, HOLE SIZES AND EDGE DISTANCES AT STEEL COLUMN BASE PLATES
NO SCALE 405-01



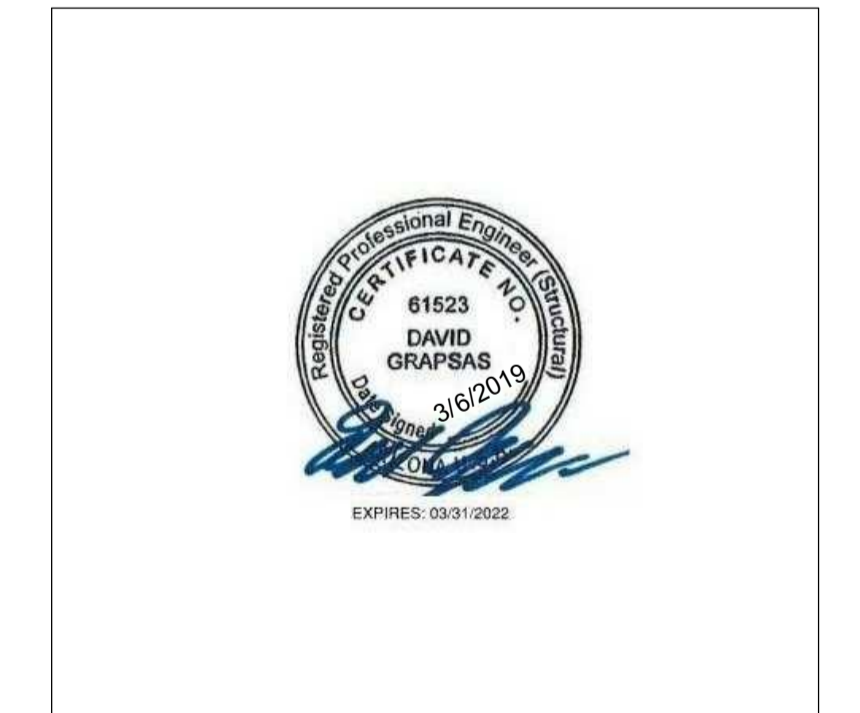
- CENTERLINE OF ANCHOR RODS AND HOLES
- ANCHOR ROD
- EDGE DISTANCE
- HEAVY HEX NUT
- SQUARE STEEL PLATE WASHER
- STEEL BASE PLATE
- DRY-PACK/FLOWABLE GROUT
- TOP OF CONCRETE
- OVERSIZED HOLES AT BASE PLATE
- HEAVY HEX NUT-TACK WELD

NOTE:
CONTRACTOR SHALL COORDINATE ANCHOR ROD EXTENSIONS AND THREAD LENGTHS.

SELF CERTIFIED BY: DONALD ANDREWS DATE: 03/06/2019 CERTIFICATE #45
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SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE



Owner JONATHAN PITT
Proj. Name WANDERIST OFFICE & RETAIL

TYPICAL DETAILS

Date 03/06/2019

S1.4

Scale As indicated



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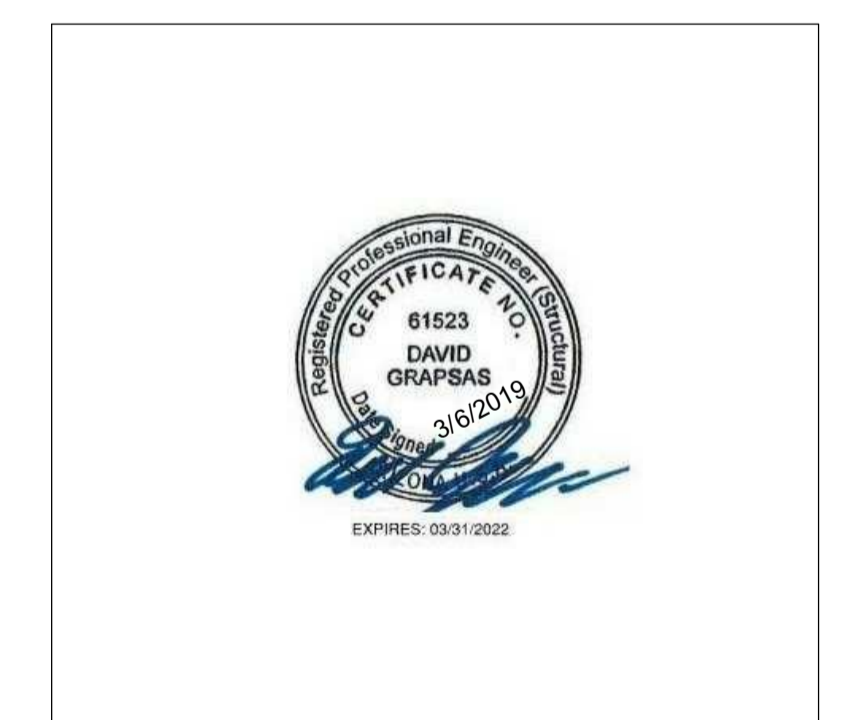
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SHEET ISSUE/REV:

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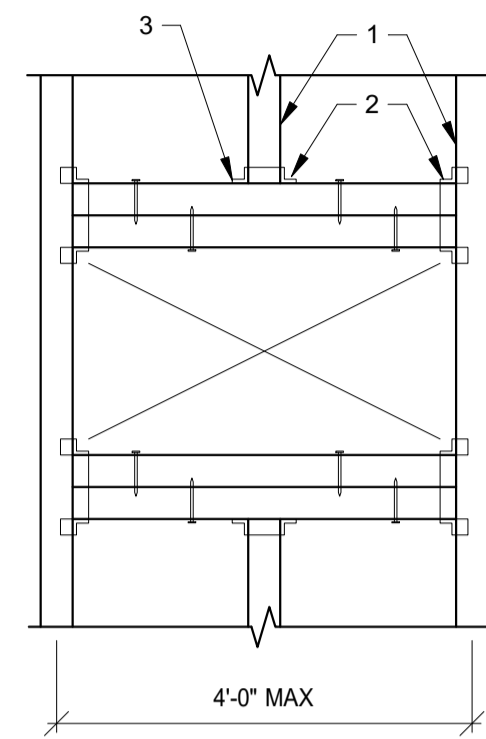
TYPICAL DETAILS

Date 03/06/2019

Scale As indicated

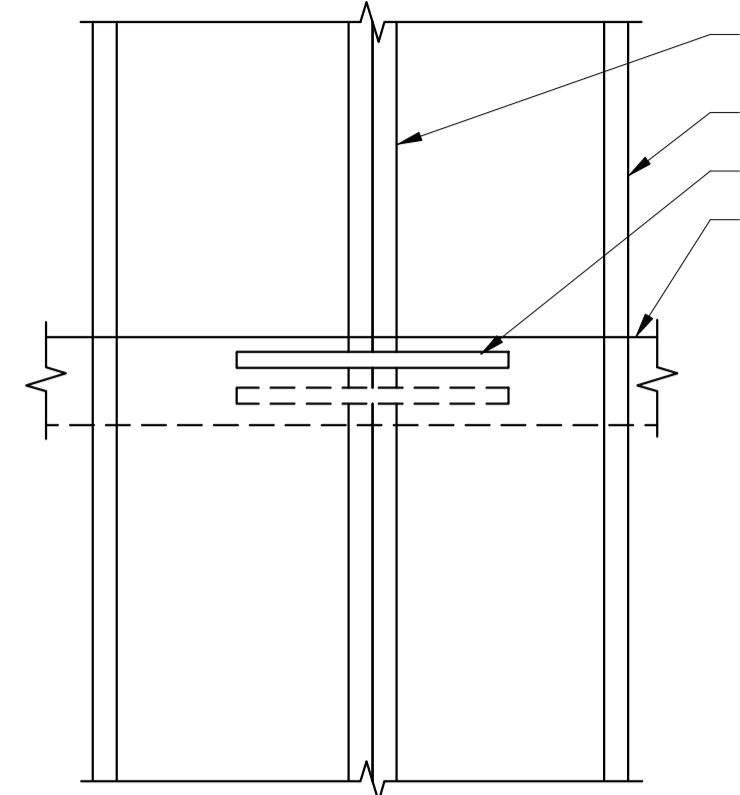
Scale As indicated

- PREFAB WOOD TRUSS. NOTE: MANUFACTURER TO VERIFY TRUSS CAPACITY FOR MECHANICAL LOADS. MODIFY TOP AND BOTTOM CHORDS AS REQUIRED (MAINTAIN DEPTH).
- DOUBLE 2X12 WITH SIMPSON HUS12-2TF HANGERS EACH END AND 16d AT 12" O.C. - STAGGERED.
- TRUSS HANGER AS REQUIRED. MIN. HUTF TYPE HANGER.



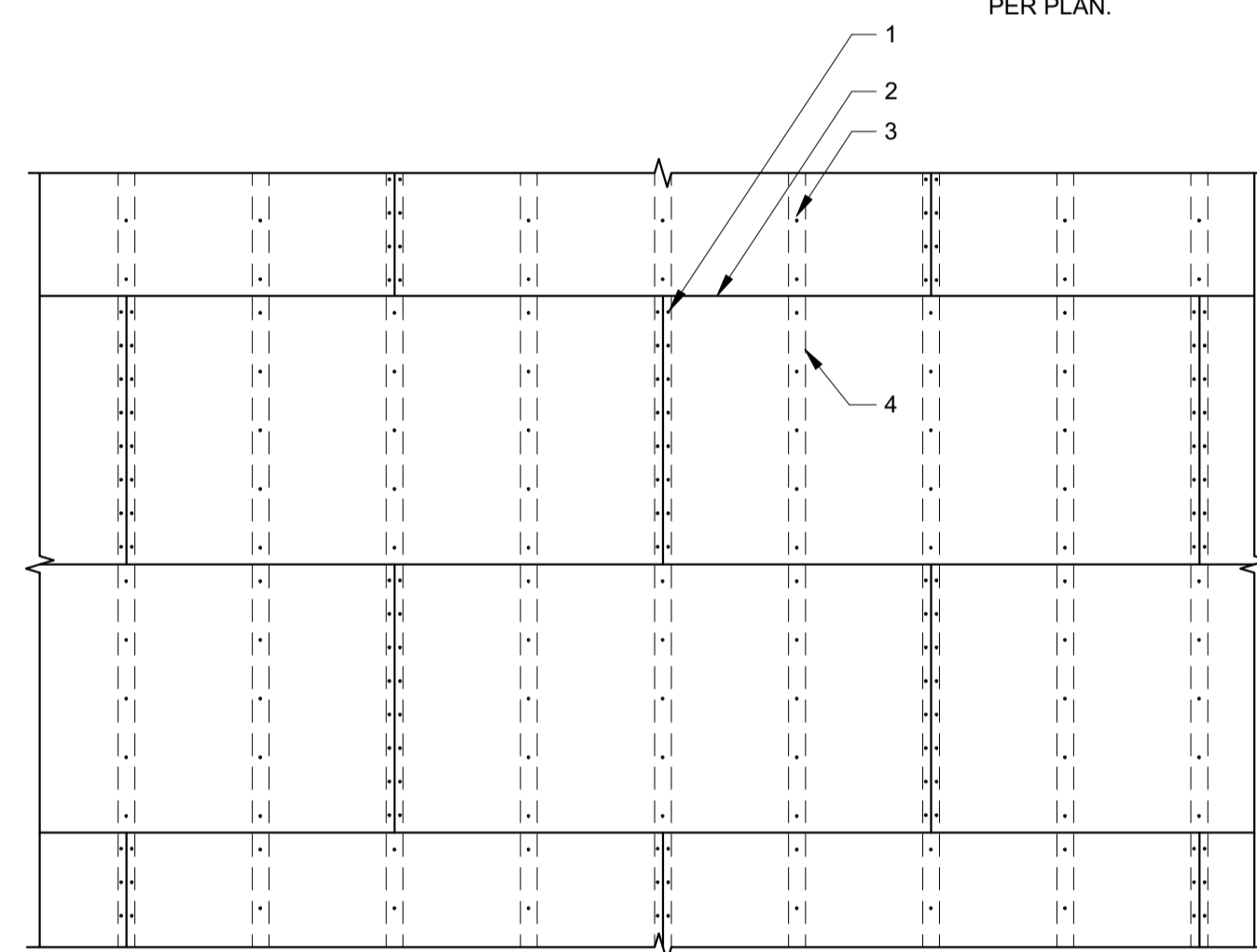
C1 TYPICAL ROOF OPENING
NO SCALE 635-21

- DOUBLE STUD AT SPLICE.
- WOOD STUD WALL.
- SIMPSON CMS12 STRAP (DOUBLE STRAP WHERE NOTED ON PLANS)
- WOOD LEDGER.



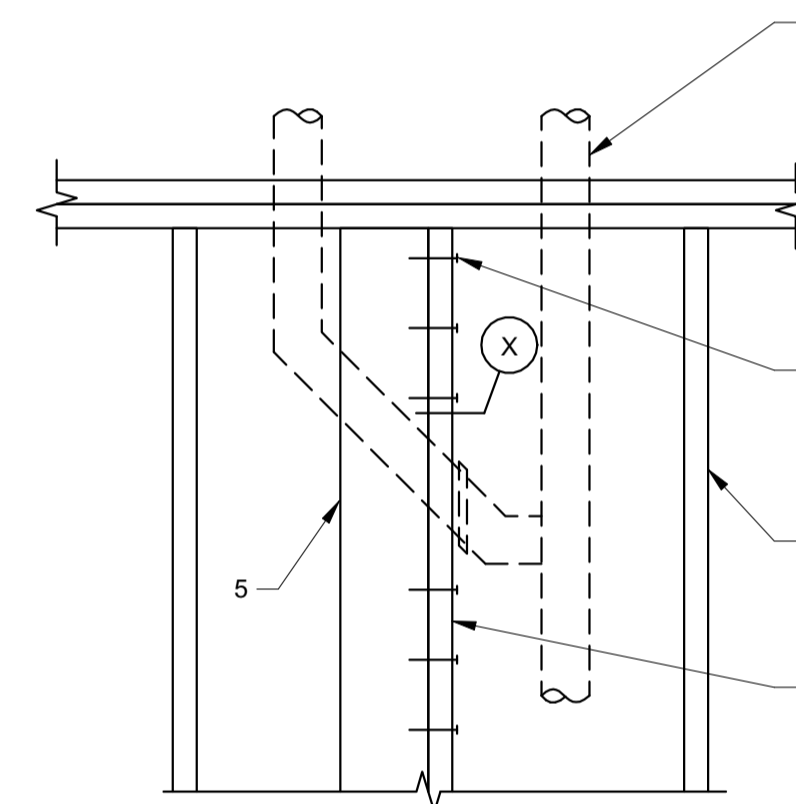
C2 TYPICAL LEDGER SPLICE
NO SCALE 614-04

- EDGE NAILING - PER GSN.
- PLYWOOD SHEATHING.
- INTERMEDIATE NAILING - PER GSN.
- PREFAB WOOD TRUSSES PER PLAN.

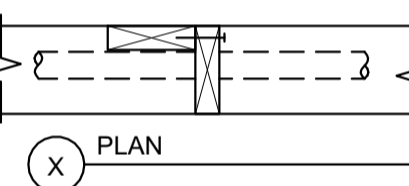


B1 TYPICAL ROOF PLYWOOD AT PREFAB WOOD TRUSSES
NO SCALE 695-01

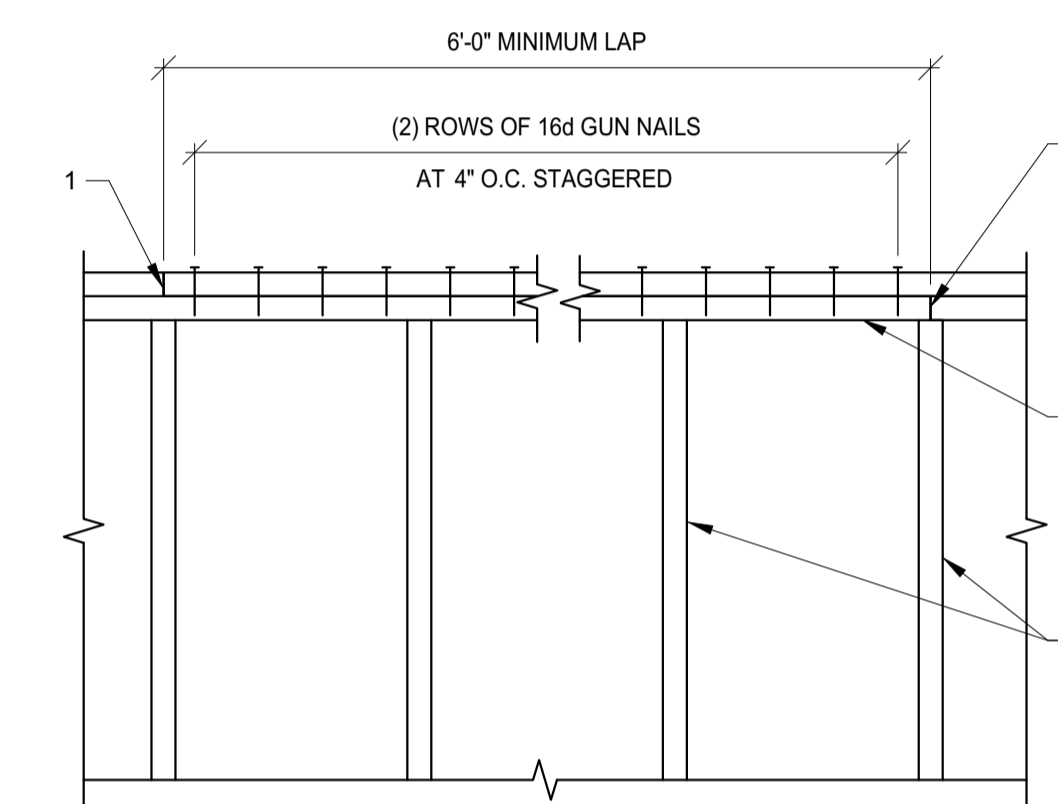
- PLUMBING PIPE AT TOP PLATE PER TYPICAL DETAIL.
- 16d NAILS AT 12" O.C.
- 2x6 STUDS, TYP.
- 2x6 STUDS WITH NOTCH/HOLE.
- 2x6 STUD TURNED 90° - STRONG AXIS TO EXISTING STUD.



B2 ELEVATION - PIPE AT 2x6 WOOD STUD WALL
NO SCALE 614-05



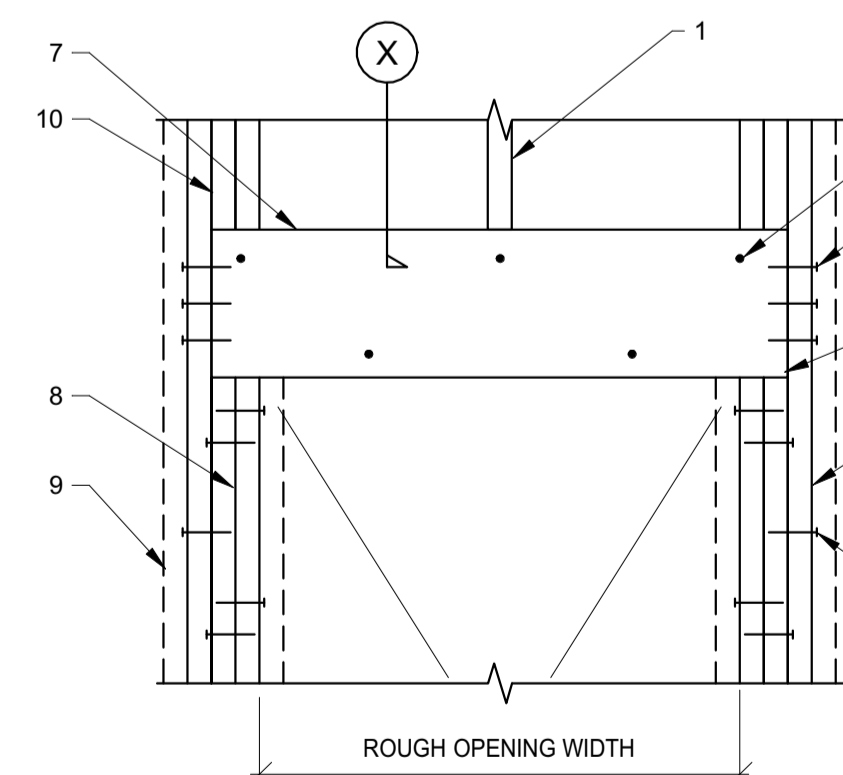
NOTE:
• JOIST/RIMBOARD/BLOCKING NOT SHOWN FOR CLARITY.



B3 TYPICAL SPLICE OF TOP PLATES
NO SCALE 614-03

- TOP PLATE SPLICE OVER STUD ONLY.
- DOUBLE TOP PLATE.
- WOOD STUDS.

- WOOD STUD WALL AND PLATE.
- 16d NAILS AT 12" O.C. STAGGERED BOTH SIDES.
- 16d FACE NAILS THRU FIRST KING STUD INTO HEADER PER SCHEDULE.
- (2) 16d TOENAILS - EACH SIDE, EACH END.
- RUN VERTICAL STUD UP PAST HEADER AS SHOWN.
- 16d NAILS AT 12" O.C.
- WOOD HEADER WITH PLYWOOD.
- DOUBLE TRIMMER STUDS UNDER HEADER BEARINGS FOR OPENING WIDTHS GREATER THAN 6'-0". PROVIDE TRIPLE TRIMMER STUDS.
- ADDITIONAL FULL HEIGHT JAMB STUD PER BELOW WITH SAME NAILING PER NOTE #6.
- BEARING STUDS TO TOP PLATE AT MULTI-STORY WALLS.

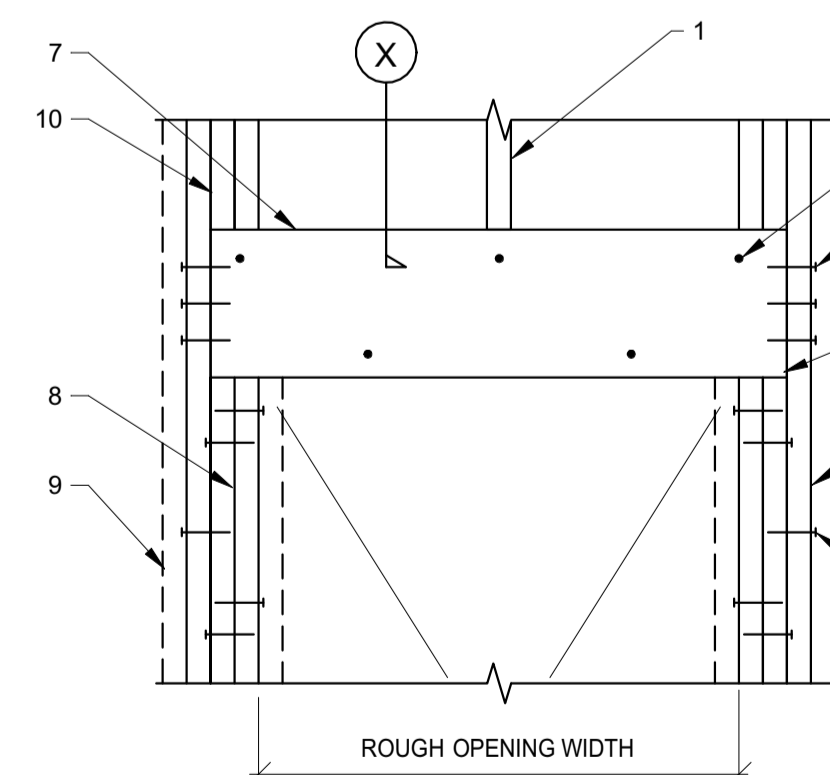


A1 2x6 WOOD STUD WALL HEADER SCHEDULE
NO SCALE 682-22

ROUGH OPENING WIDTH	HEADER AT BEARING OR SHEAR WALL	HEADER AT OTHER WALLS	ADDL JAMB STUDS EACH SIDE	(#) OF FACE NAILS AT HEADER
0'-0" TO 3'-0"	(3) 2x6	(3) 2x4	--	(2)
3'-1" TO 6'-0"	(3) 2x8	(3) 2x6	(1) 2x	(3)
6'-1" TO 8'-0"	(3) 2x12	(3) 2x8	(2) 2x	(4)
8'-1" TO 10'-0"	(3) 2x14	(3) 2x10	(3) 2x	(5)

NOTE:
• THIS SCHEDULE MAY BE USED ONLY IN WALLS WHERE NO HEADER HAS BEEN CALLED OUT ON PLANS OR DETAIL.
• SINGLE 6x HEADERS MAY BE USED IN LIEU OF (3) 2x AT CONTRACTOR'S OPTION.

- WOOD STUD WALL AND PLATE.
- 16d NAILS AT 12" O.C. STAGGERED BOTH SIDES.
- (2) 16d FACE NAILS THRU FIRST KING STUD INTO HEADER PER SCHEDULE.
- (2) 16d TOENAILS - EACH SIDE, EACH END.
- RUN VERTICAL STUD UP PAST HEADER AS SHOWN.
- 16d NAILS AT 12" O.C.
- WOOD HEADER WITH PLYWOOD.
- DOUBLE TRIMMER STUDS UNDER HEADER BEARINGS FOR OPENING WIDTHS GREATER THAN 6'-0". PROVIDE TRIPLE TRIMMER STUDS.
- ADDITIONAL FULL HEIGHT JAMB STUD PER BELOW WITH SAME NAILING PER NOTE #6.
- BEARING STUDS TO TOP PLATE AT MULTI-STORY WALLS.

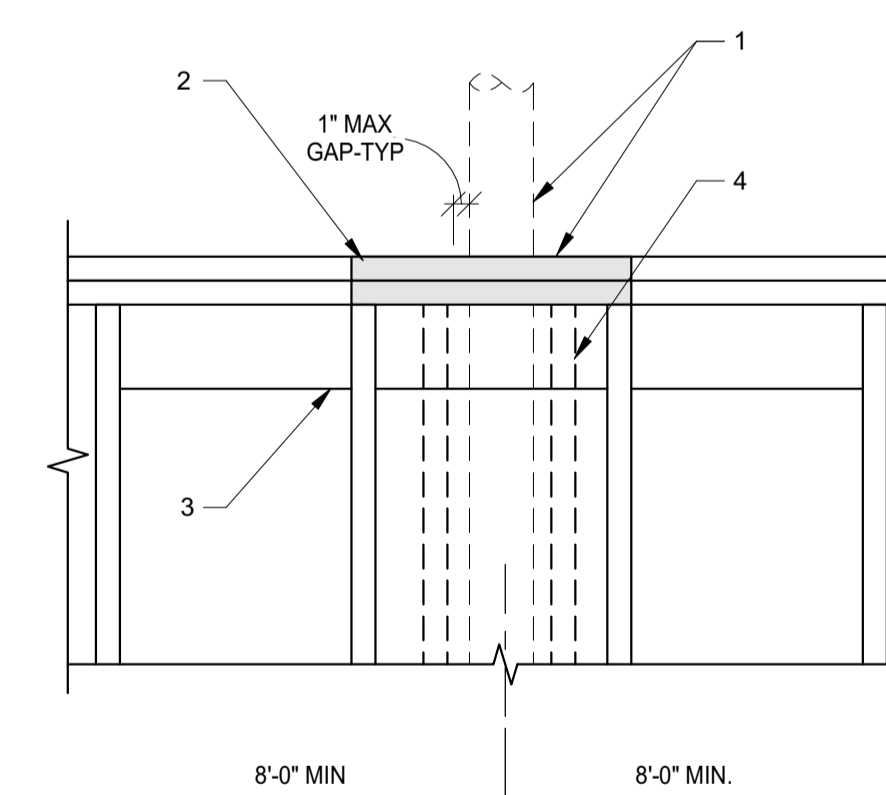


A2 2x4 WOOD STUD WALL HEADER SCHEDULE
NO SCALE 682-21

ROUGH OPENING WIDTH	HEADER AT BEARING OR SHEAR WALL	HEADER AT OTHER WALLS	ADDL JAMB STUDS EACH SIDE	(#) OF FACE NAILS AT HEADER
0'-0" TO 3'-0"	(2) 2x6	(2) 2x4	--	(2)
3'-1" TO 6'-0"	(2) 2x8	(2) 2x6	(1) 2x	(3)
6'-1" TO 8'-0"	(2) 2x12	(2) 2x8	(2) 2x	(4)
8'-1" TO 10'-0"	(2) 2x14	(2) 2x10	(3) 2x	(5)

NOTE:
• THIS SCHEDULE MAY BE USED ONLY IN WALLS WHERE NO HEADER HAS BEEN CALLED OUT ON PLANS OR DETAIL.
• SINGLE 6x HEADERS MAY BE USED IN LIEU OF (3) 2x AT CONTRACTOR'S OPTION.

- OVERBORED (NOTCHED OR GAP) PLATED PIPE.
- (2) SIMPSON CTS218 EACH SIDE.
- 2x BLOCKING - ADD AT PIPE AND EACH STUD BAY EACH SIDE (3 BAYS MIN)
- WHERE WALL IS A BEARING WALL, ADD STUD SUPPORT WITHIN 6" OF NOTCHED TOP PLATES.



A3 PIPE IN SHEARWALL
NO SCALE 612-22

NOTES:
• SEE PLANS FOR MORE INFORMATION AND NOTES NOT SHOWN.
• ATTACH SHEATHING MATERIAL TO TOP PLATES AND BLOCKING PER SHEARWALL NOTES AND DRAWINGS.

SELF CERTIFIED BY: DONALD ANDREWS DATE 03/06/2019 CERTIFICATE #45

- PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL.
- PLANS ARE COMPLETE.
- THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.



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FOUNDATION NOTES

- A. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. DIMENSIONS, ELEVATIONS WHERE SHOWN ARE TO BE USED AS AN AID AND SHALL BE COORDINATED WITH THE ARCHITECT OR GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. DO NOT USE CONC C.J. FOR LOCATING BUILDING ELEMENTS.
- B. FOR ADDITIONAL INFORMATION, REFERENCE GENERAL STRUCTURAL NOTES.
- C. ANY REFERENCE TO ELEVATIONS ARE BASED ON A PROJECT DATUM OF 0'-0" AT FINISH FLOOR OF 1ST FLOOR. FOR MORE INFORMATION SEE ARCHITECTURAL DRAWINGS.
- D. WF1, WF2, ETC. AS SHOWN ON PLAN INDICATES CONTINUOUS WALL FOOTING. SEE SCHEDULE ON SHEET S0.3. FOOTING SHALL BE CENTERED UNDER WALL U.N.O.
- E. F1, F2, ETC. AS SHOWN ON PLAN INDICATES ISOLATED FOOTING. SEE SCHEDULE ON SHEET S0.3. FOOTING SHALL BE CENTERED UNDER COLUMN U.N.O.
- F. FOUNDATION ELEVATIONS NOTED ON PLANS AND IN GSN ARE MINIMUMS. FOUNDATION CONTRACTOR SHALL COORDINATE WITH SOIL REPORT AND ALL TRADES TO ENSURE FOUNDATION ELEVATIONS ARE ADEQUATE. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
- G. C1, C2, ETC. AS SHOWN ON PLAN INDICATES STEEL COLUMN. SEE SCHEDULE ON SHEET S0.3.
- H. WS1, WS2, ETC. AS SHOWN ON PLAN INDICATES WALL TYPES. SEE SCHEDULE ON SHEET S0.3. SEE ARCHITECTURAL DRAWINGS FOR EXACT WALL LOCATIONS.
- I. CONC. C.J. AS SHOWN ON PLAN INDICATES LOCATION OF CONCRETE CONTROL JOINT. CONTROL JOINTS MAY BE KEYPED OR SAWCUT AT CONTRACTOR'S OPTION. CONC. C.J.'S SHALL BE PLACED WITHIN 24 HOURS OF FINISHING. SEE GSN AND TYPICAL DETAILS.
- J. BUILDING CONCRETE SLAB ON GRADE SHALL BE AS NOTED ON PLAN. VERIFY EXACT SIZE AND LOCATION OF ALL DEPRESSED, RAISED, OR SLOPED CONCRETE SLABS WITH ARCHITECTURAL DRAWINGS. SEE GSN AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

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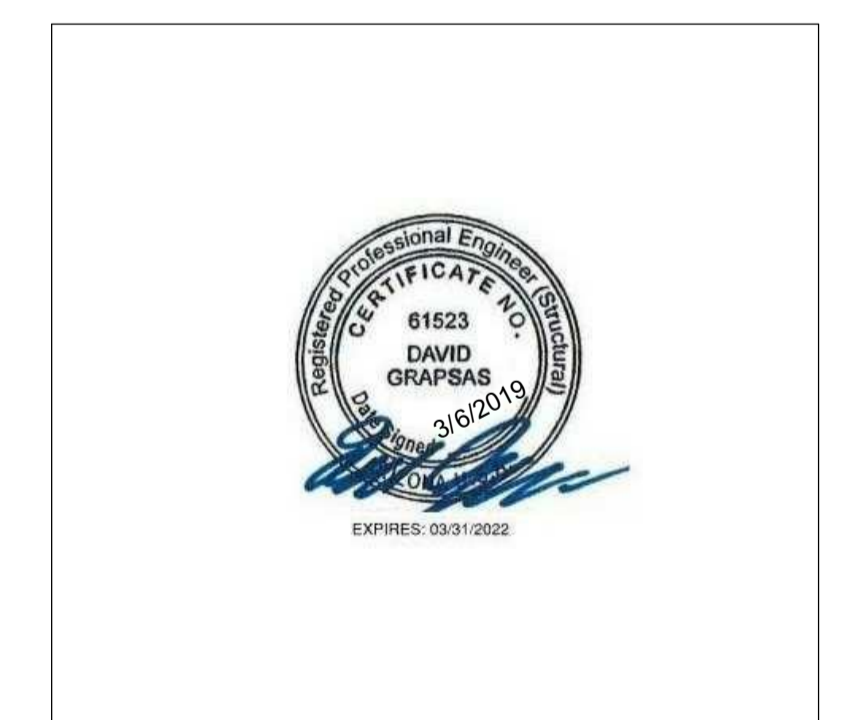
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KEYNOTES

- 1 EXISTING CONTINUOUS 20" WIDE x 12" THICK CONCRETE FOOTING. TYPICAL AROUND PERIMETER OF BUILDING. BOTTOM OF EXISTING FOOTING AT 32" BELOW FINISHED FLOOR. CONTRACTOR TO FIELD VERIFY. TYP.
- 2 BOTTOM OF FOOTING TO MATCH BOTTOM OF EXISTING FOOTING. TYP.
- 3 APPROXIMATE LOCATION OF MECHANICAL EQUIPMENT. REFER TO TYPICAL DETAILS A4 & B4/S1.3 FOR EQUIPMENT PAD REQUIREMENTS.

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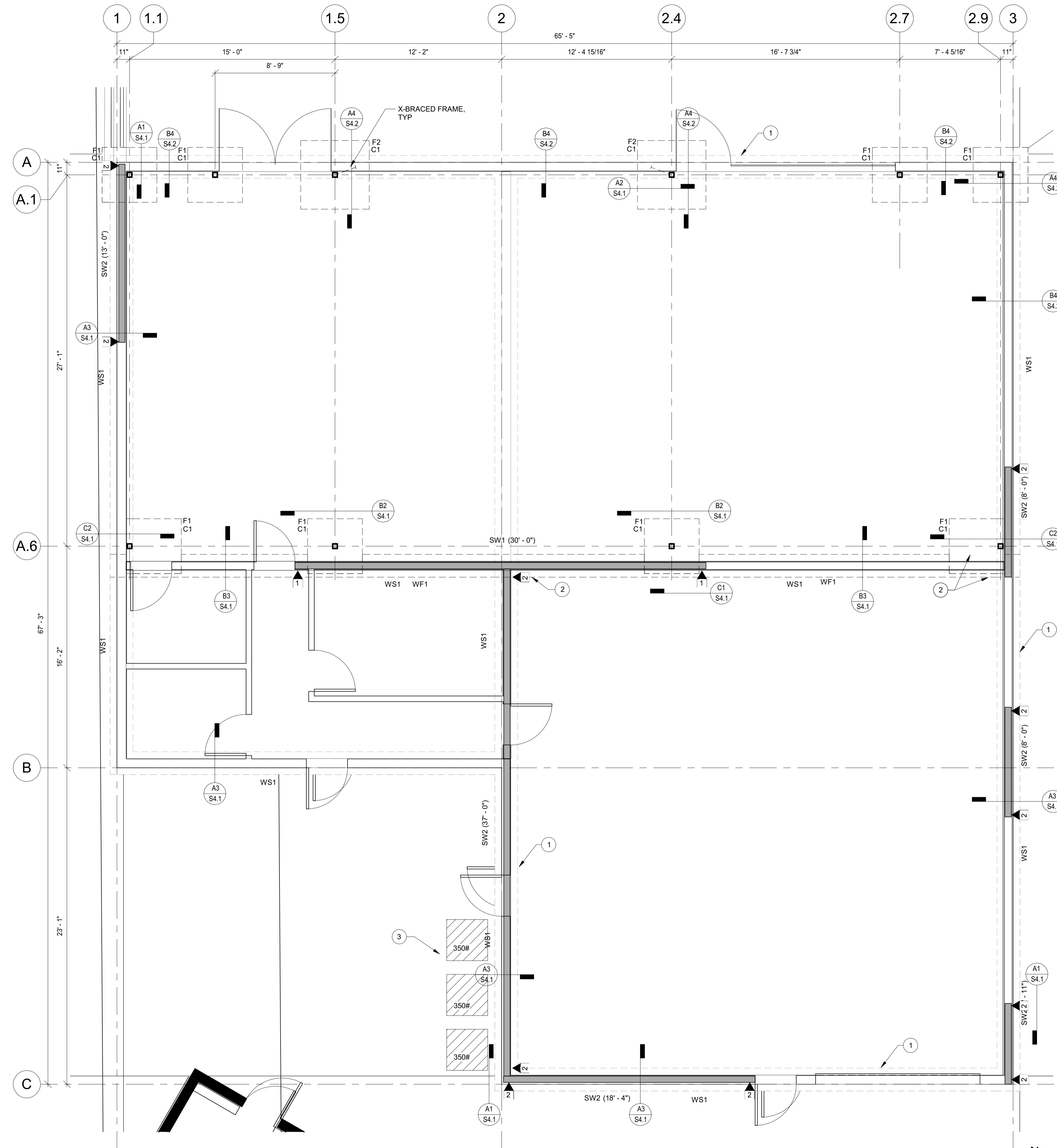
FOUNDATION PLAN

Date 03/06/2019

S2.1

Scale 1/4" = 1'-0"

SELF CERTIFIED BY: *[Signature]* DATE: 03/06/2019
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1 FOUNDATION PLAN
1/4" = 1'-0"



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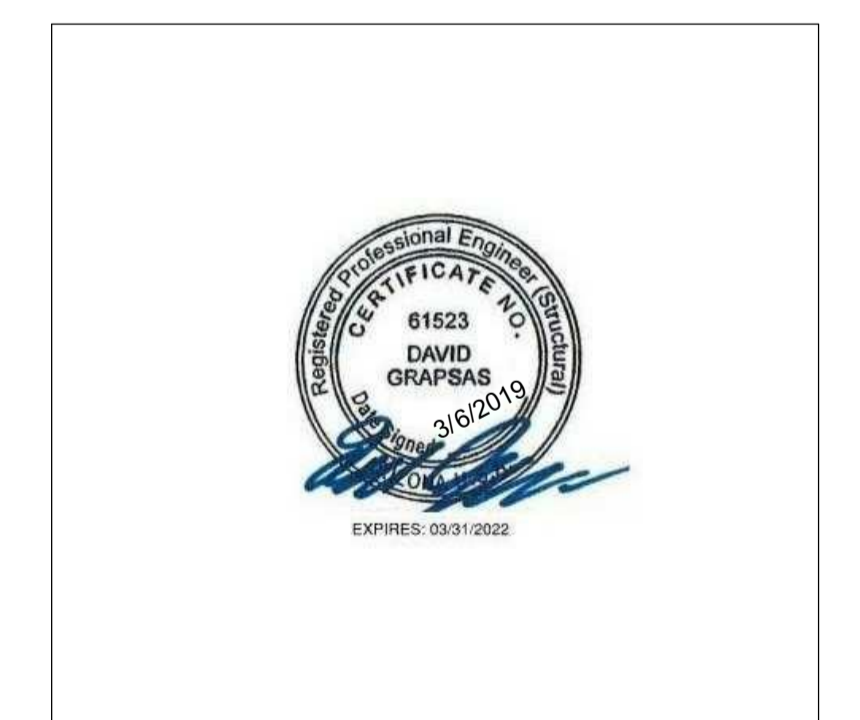
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FRAMING PLAN

Date 03/06/2019

S3.1

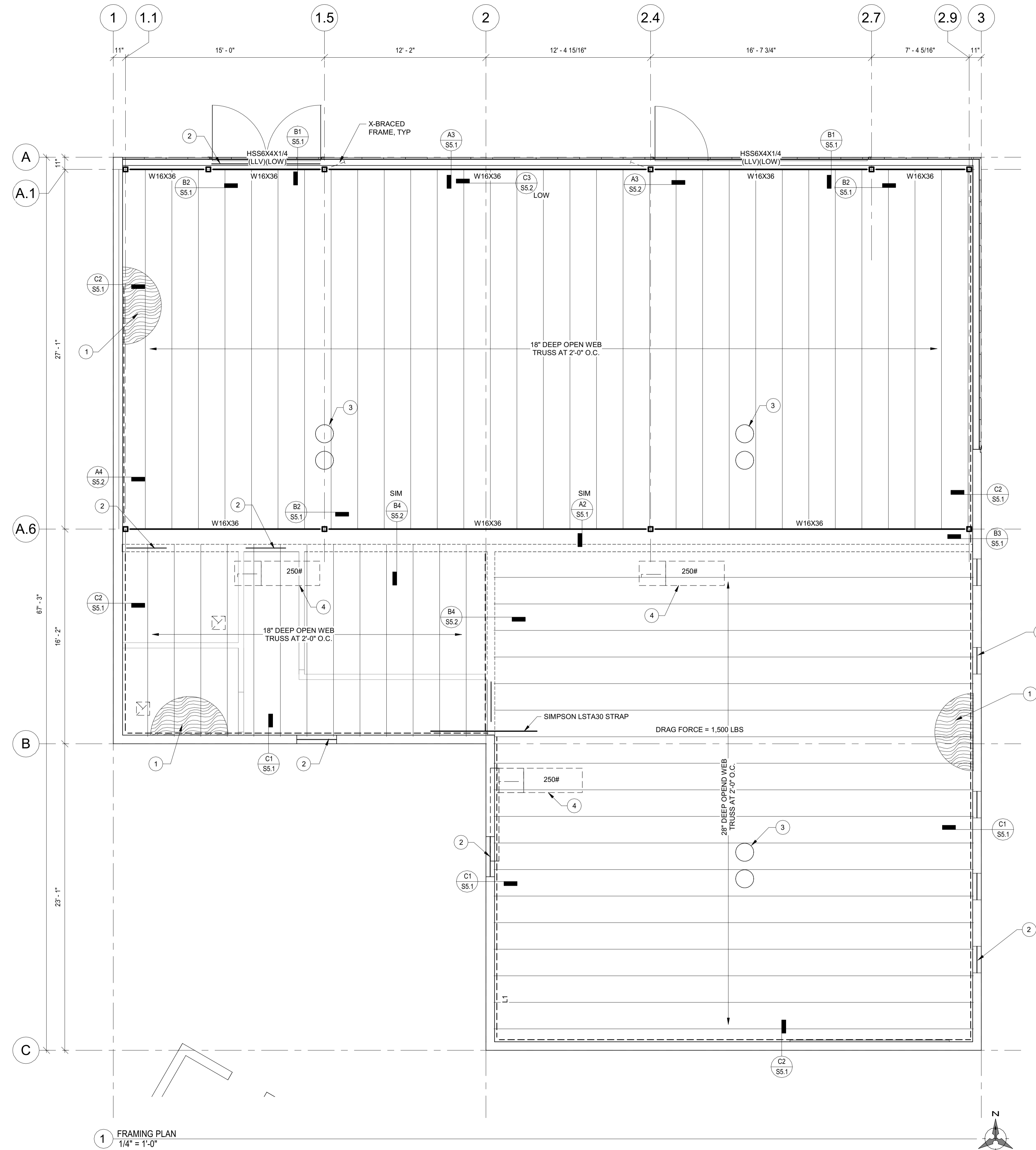
Scale 1/4" = 1'-0"

ROOF FRAMING NOTES

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- ANY REFERENCE TO ELEVATIONS ARE BASED ON A PROJECT DATUM OF 0'-0" AT FINISH FLOOR OF 1ST FLOOR. FOR MORE INFORMATION SEE ARCHITECTURAL DRAWINGS.
- L1, L2, ETC. AS SHOWN ON PLAN INDICATES LEDGER. SEE SCHEDULE ON SHEET S.03
- FOR CLARITY, ALL ROOF OPENINGS MAY NOT BE SHOWN ON FRAMING PLAN. FOR EXACT SIZE, NUMBER AND LOCATION SEE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS. FOR FRAMING AT OPENINGS, SEE TYPICAL DETAILS.
- VERIFY EXACT SIZE, WEIGHT AND LOCATION OF MECHANICAL UNITS, EQUIPMENT AND SUPPORTS INDICATED ON PLAN WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND PLUMBING DRAWINGS.
- FOR CLARITY, DETAILS MAY ONLY SHOW ONE SIDE OF CONNECTION.

KEYNOTES

- 19/32" PLYWOOD SHEATHING ATTACH PER GSN.
- OPENING IN WOOD STUD WALL. REFER TO TYPICAL WOOD STUD WALL HEADER SCHEDULE DETAIL A1/S1.5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND LOCATION.
- APPROXIMATE LOCATION OF ROOF DRAINS. FOR FRAMING AROUND ROOF DRAINS, REFER TO TYPICAL DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIZE AND LOCATION.
- APPROXIMATE LOCATION OF MECHANICAL UNIT. FOR FRAMING AT MECHANICAL UNITS REFER TO DETAIL A1/S5.1. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EXACT SIZE AND LOCATION.



1 FRAMING PLAN
1/4" = 1'-0"

SELF CERTIFIED BY: *[Signature]* DATE: 03/06/2019
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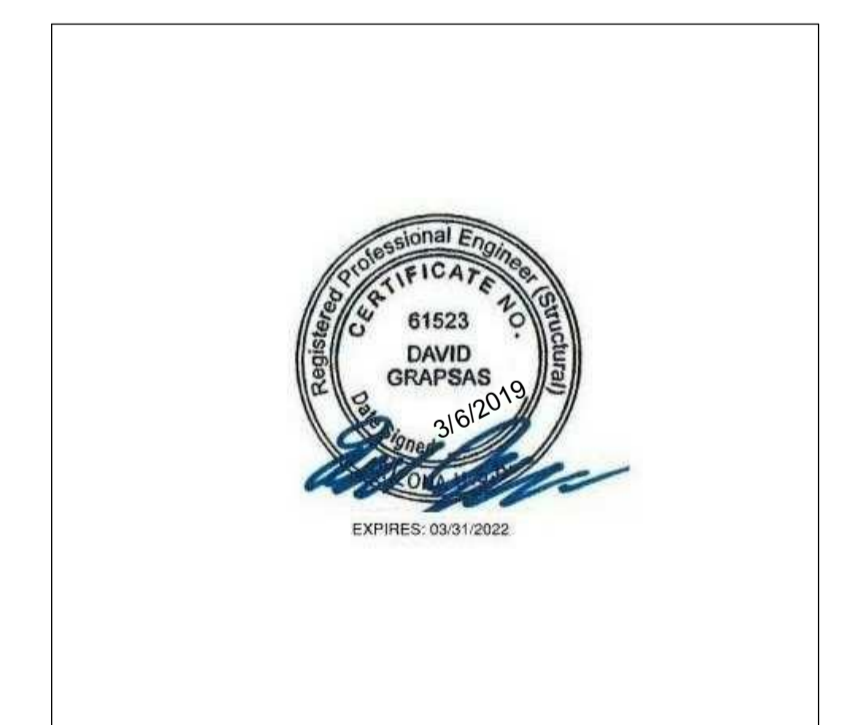
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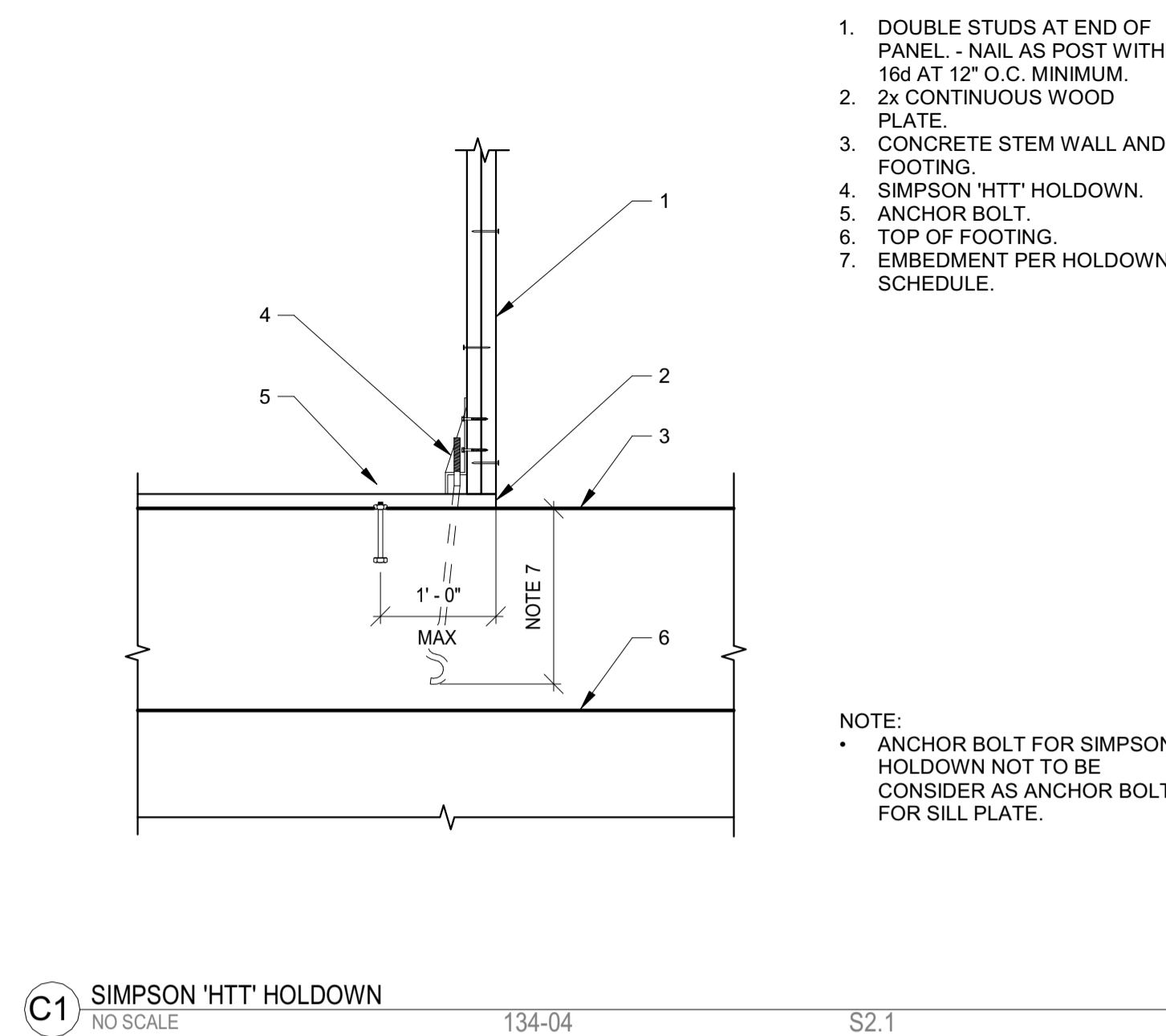
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FOUNDATION DETAILS

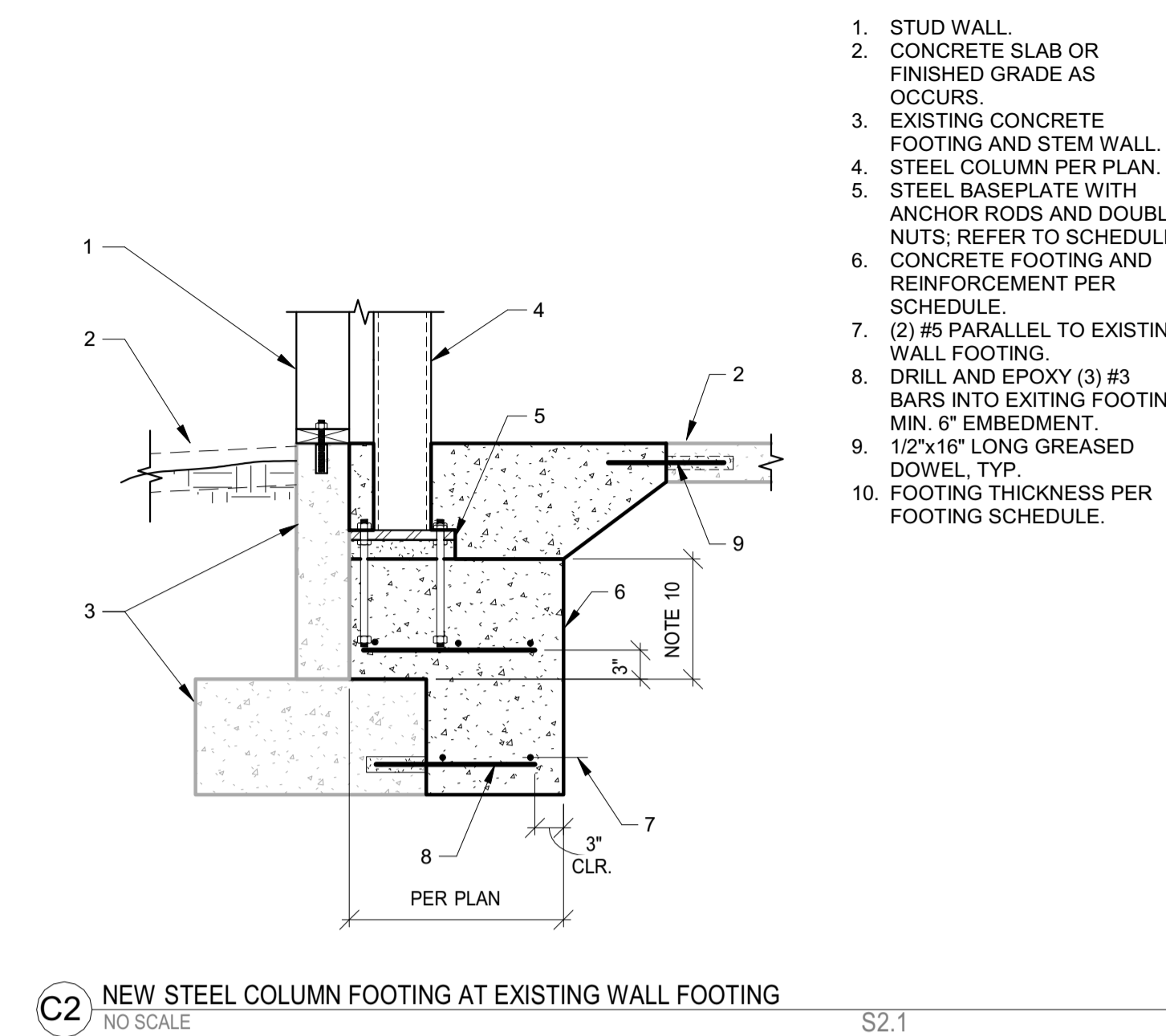
Date 03/06/2019

S4.1

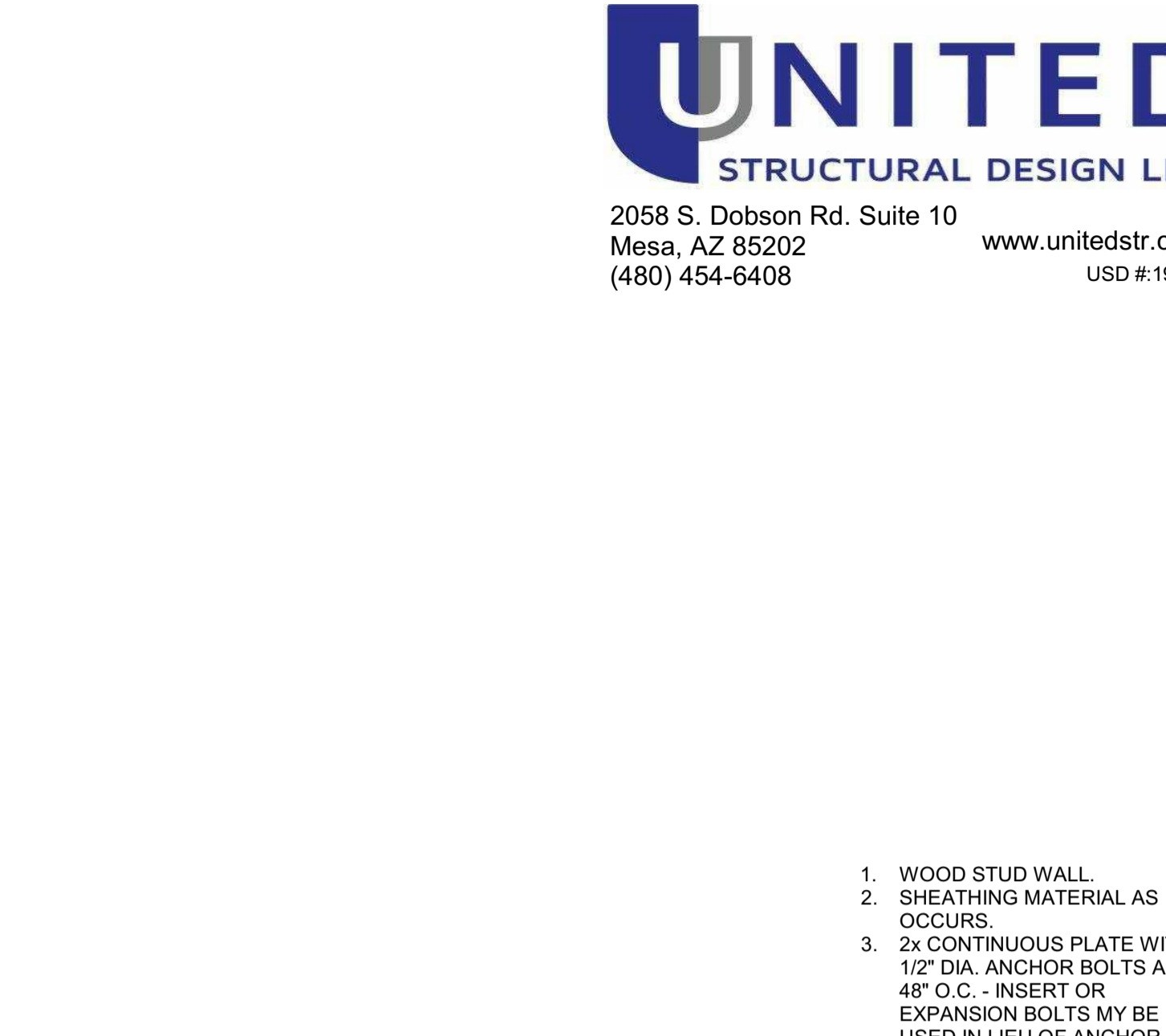
Scale 3/4" = 1'-0"



C1 SIMPSON 'HTT' HOLDOWN
NO SCALE 134-04 S2.1



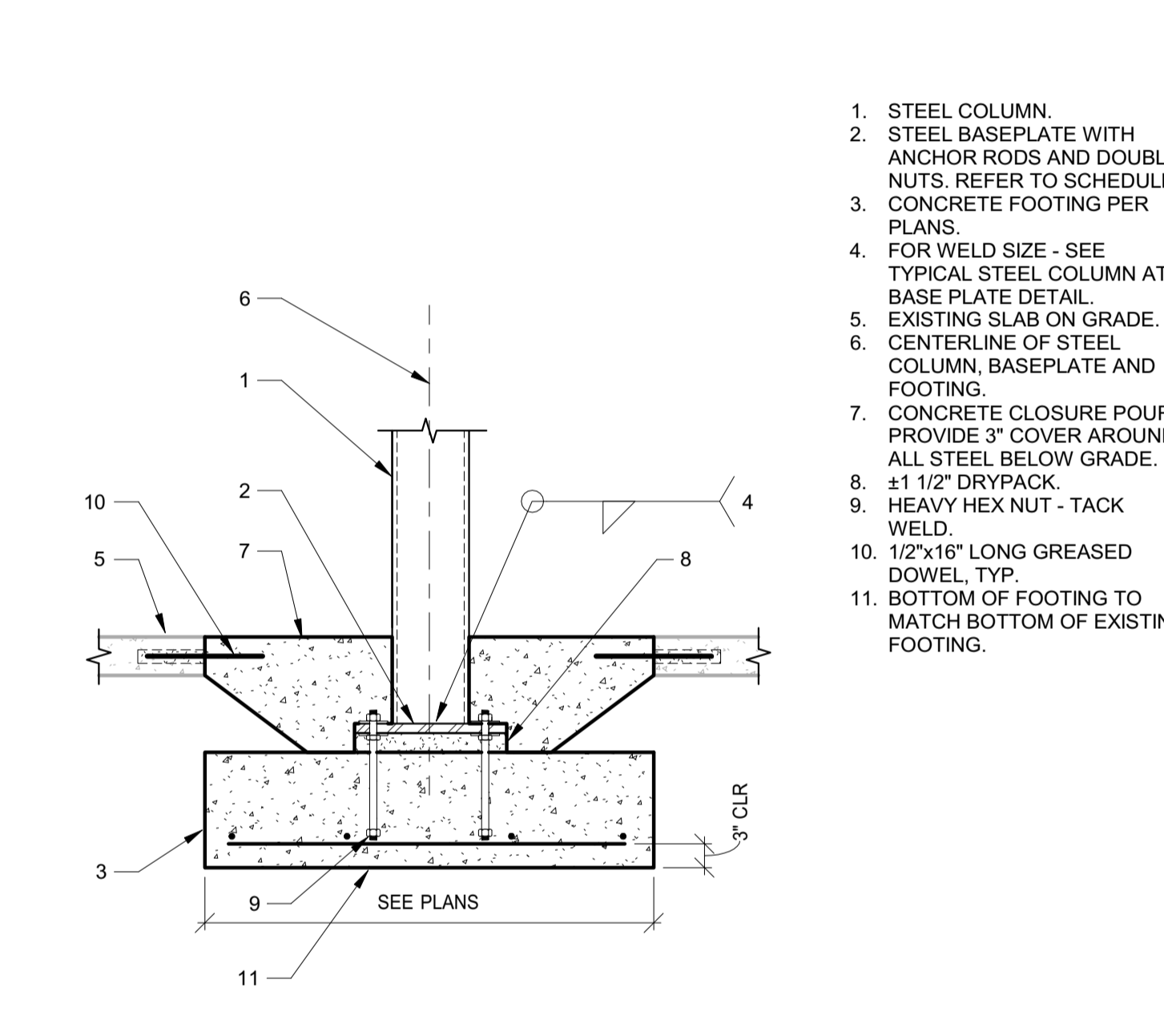
C2 NEW STEEL COLUMN FOOTING AT EXISTING WALL FOOTING
NO SCALE S2.1



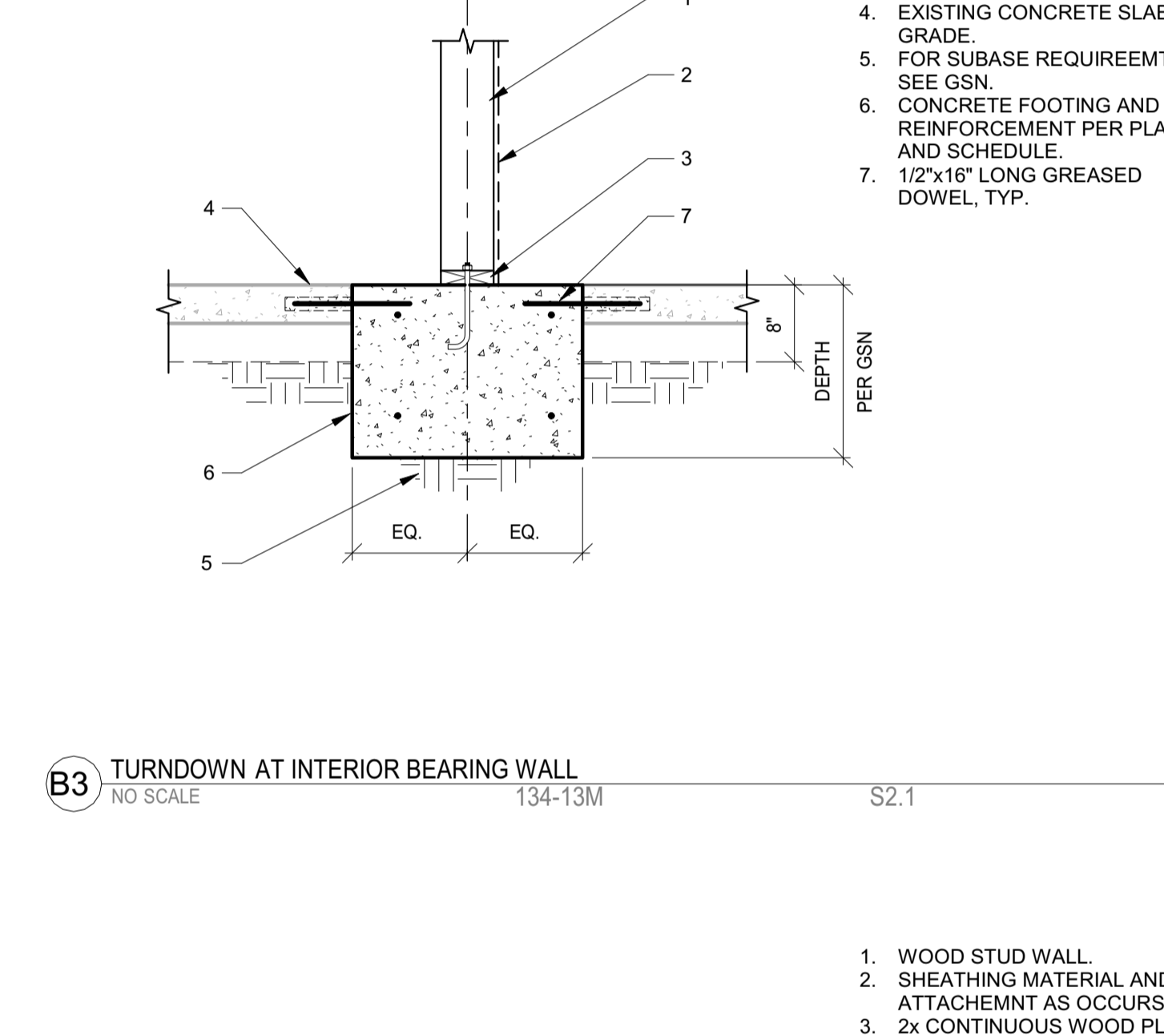
B3 TURNDOWN AT INTERIOR BEARING WALL
NO SCALE 134-13M S2.1



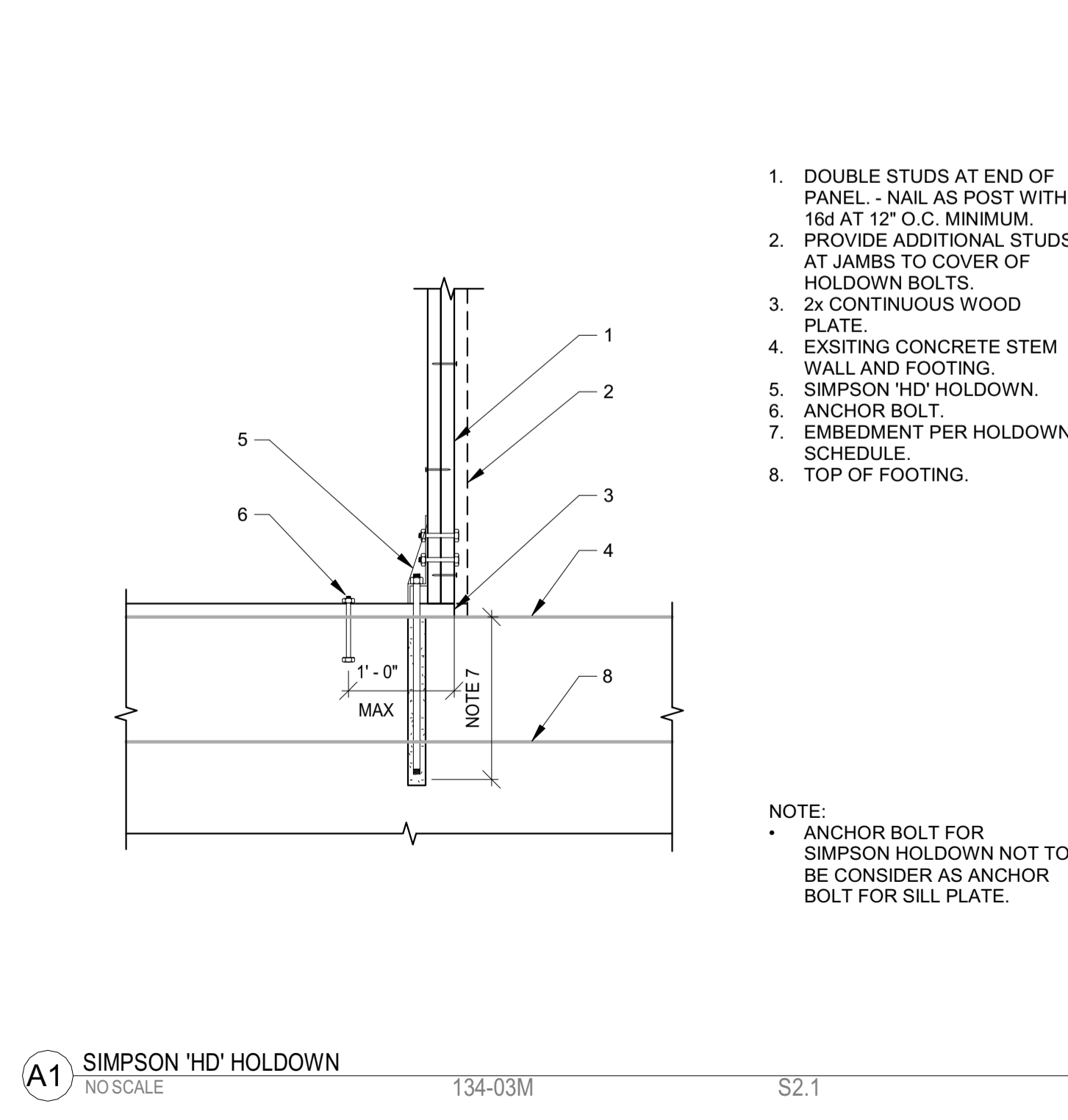
A1 SIMPSON 'HD' HOLDOWN
NO SCALE 134-03M S2.1



B2 INTERIOR STEEL COLUMN AT FOOTING
NO SCALE 912-11 S2.1



A3 EXTERIOR WOOD STUD WALL FOOTING
NO SCALE 134-01.1M S2.1



A2 BRACED FRAME CONNECTION AT STEEL COLUMN
NO SCALE 431-03M S2.1

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CERTIFICATE #45
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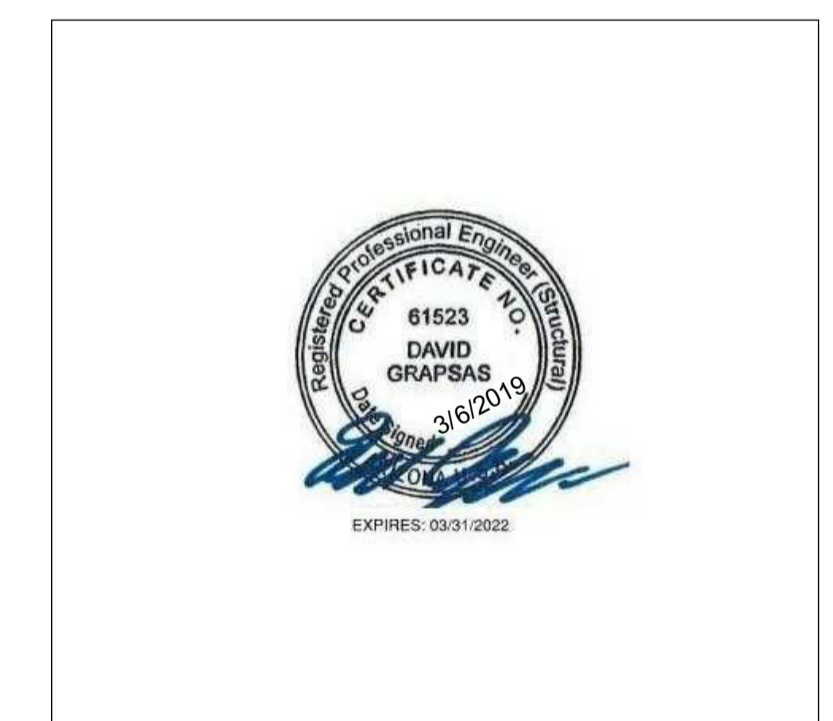
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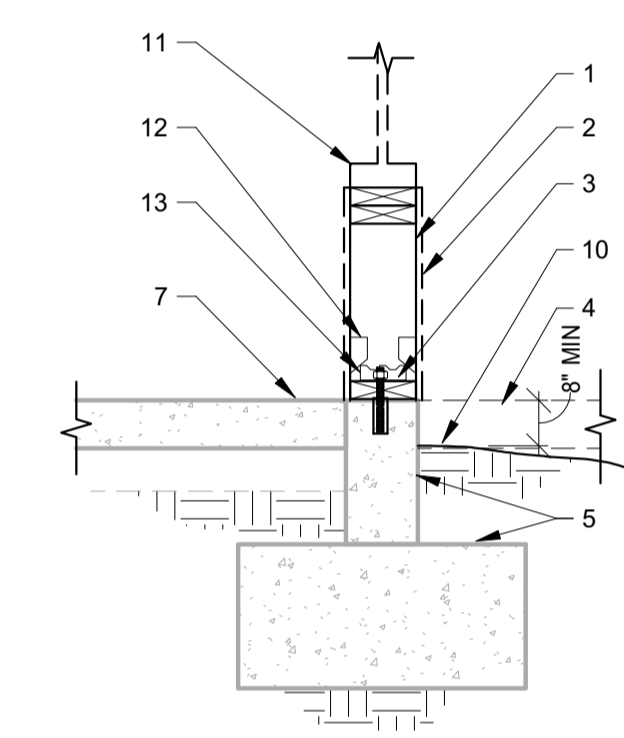
FOUNDATION DETAILS

Date 03/06/2019

S4.2

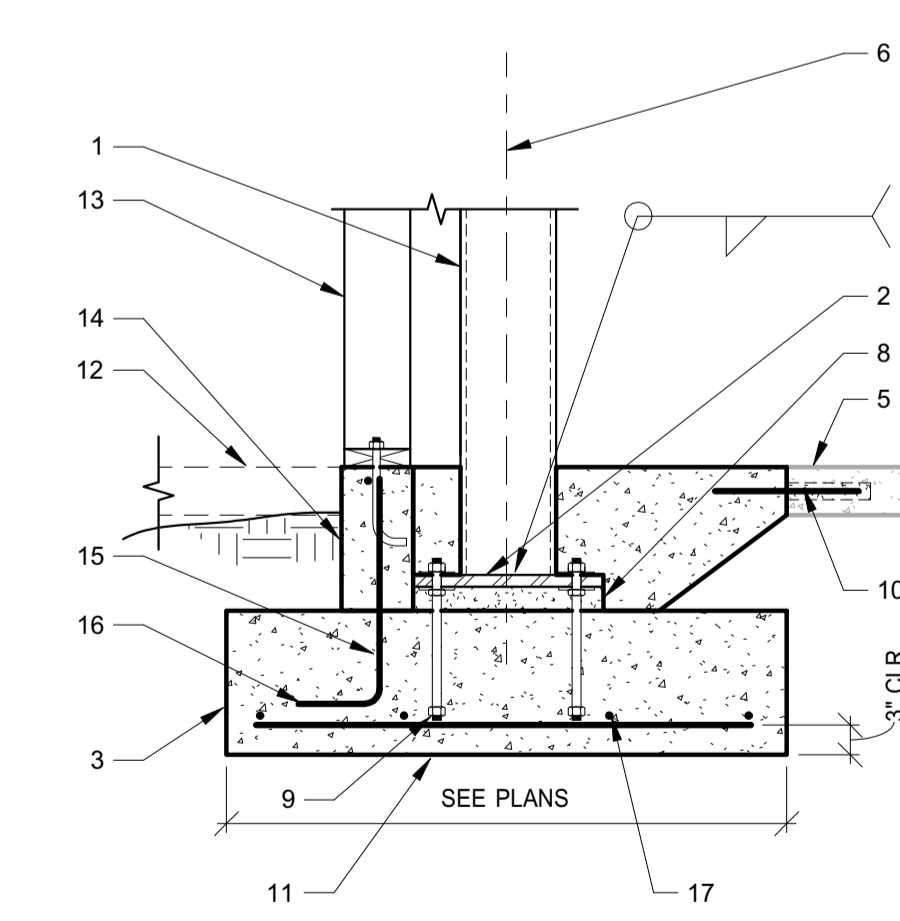
Scale 3/4" = 1'-0"

- WOOD STUD WALL.
- SHEATHING MATERIAL AND ATTACHEMNT AS OCCURS.
- 2x CONTINUOUS WOOD PLATE WITH 1/2" DIA. ADHESIVE ANCHORS AT 16" O.C. - U.N.O.
- CONCRETE SLAB WHERE OCCURS.
- CONCRETE STEM WALL AND FOOTING.
- #4 HOOKED DOWELS AT 48" O.C. - ALTERNATE BENDS.
- CONCRETE SLAB ON GRADE.
- (1) #4 CONTINUOUS.
- THICKNESS OF CONCRETE STEM WALL TO MATCH NOMINAL THICKNESS OF WALL.
- FINISHED GRADE.
- CURTAIN WALL SYSTEM PER ARCH'L. DESIGNED BY OTHERS.
- SIMPSON H3 EACH SIDE OF STUD AT EACH STUD.
- SIMPSON A35 AT EACH STUD.



B4 WOOD STUD WALL FOOTING AT WINDOW SILL
NO SCALE 134-01.2 S2.1

- STEEL COLUMN PER PLAN.
- STEEL BASEPLATE WITH ANCHOR RODS AND DOUBLE NUTS. REFER TO SCHEDULE.
- CONCRETE FOOTING PER PLANS.
- FOR WELD SIZE - SEE TYPICAL STEEL COLUMN AT BASE PLATE DETAIL.
- EXISTING SLAB ON GRADE.
- CENTERLINE OF STEEL COLUMN, BASEPLATE AND FOOTING.
- CONCRETE CLOSURE POUR. PROVIDE 3" COVER AROUND ALL STEEL BELOW GRADE.
- ±1 1/2" DRYPACK.
- HEAVY HEX NUT - TACK WELD.
- 1/2"x16" LONG GREASED DOWEL TYP.
- BOTTOM OF FOOTING TO MATCH BOTTOM OF EXISTING FOOTING.
- CONCRETE SLAB OR FINISHED GRADE AS OCCURS.
- WOOD STUD WALL PER PLAN.
- CONCRETE STEM WALL TO MATCH EXISTING. MINIMUM 8" WIDTH.
- (1) #5 CONTINUOUS TOP AND BOTTOM. DRILL AND EPOXY INTO EXISTING CONCRETE STEM WALL. MINIMUM 5" EMBEDMENT.
- #5 HOOK BARS. PROVIDE (1) EACH END AND AT 16" O.C. MAX. (2) MINIMUM.
- DRILL AND EPOXY BARS EXISTING CONCRETE FOOTING. MINIMUM 5" EMBEDMENT.



A4 INTERIOR STEEL COLUMN AT FOOTING
NO SCALE 912-11M S2.1

SELF CERTIFIED BY: *[Signature]* DATE: 03/06/2019
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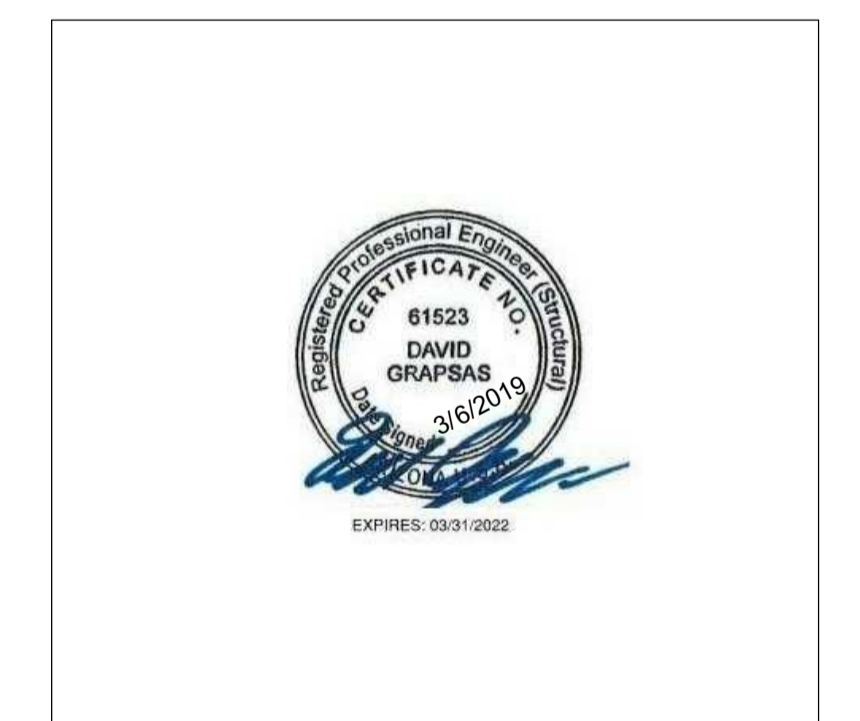
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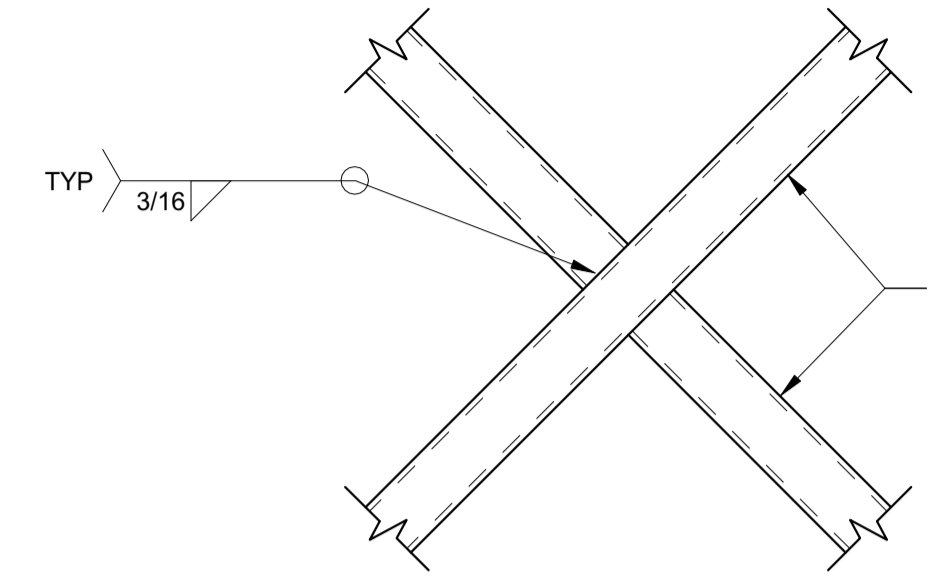
FRAMING DETAILS

Date 03/06/2019

S5.2

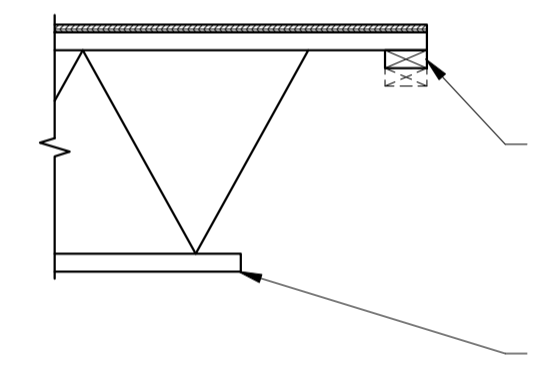
Scale As indicated

1. HSS BRACE



C3 HSS BRACE AT HSS BRACE
NO SCALE S3.1

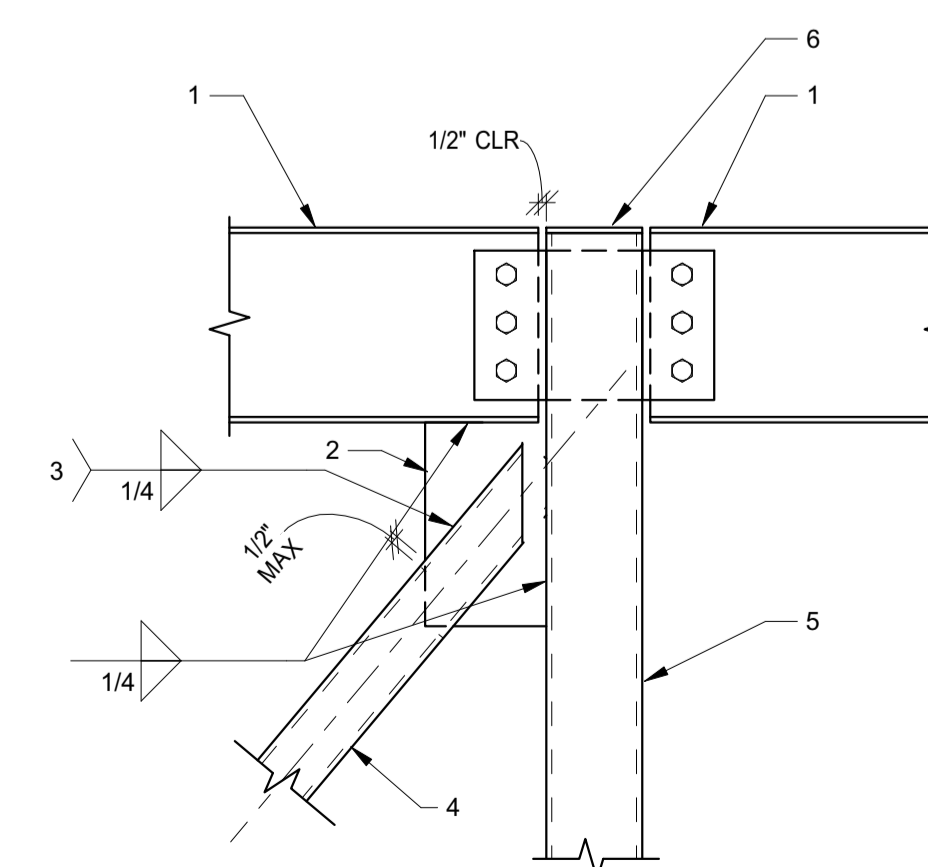
- 2x PRENOTCHED PLATES.
- PREFAB OPEN WEB T.JL TRUSS.



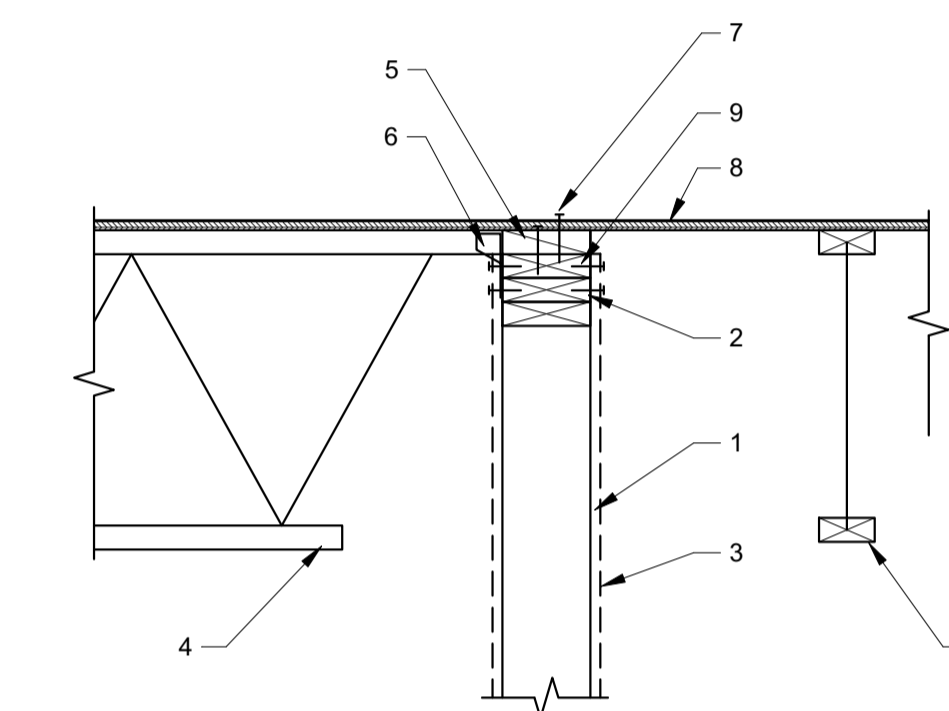
PRE-NOTCHED PLATE SCHEDULE		
NUMBER OF PRE-NOTCHED PLATES	PREFAB WOOD ROOF TRUSS DEPTH	PREFAB WOOD FLOOR TRUSS DEPTH
1	14" TO 22"	14" TO 18"
2	23" TO 34"	19" TO 34"
3	35" TO 40"	35" TO 40"

B3 T.JL OPEN WEB TRUSS PRE-NOTCHED PLATES
NO SCALE

- STEEL BEAM. SEE OTHER DETAILS FOR BEAM TO COLUMN CONNECTION.
- 3/8" STEEL GUSSET PLATE.
- BRACE TO GUSSET PLATE. WELD EACH SIDE OF PLATE, 5" MINIMUM EACH SIDE.
- HSS4x4x1/4 DIAGONAL BRACE MEMBER. SLOT OVER GUSSET PLATE.
- STEEL COLUMN.
- 1/2" STEEL CAP PLATE.



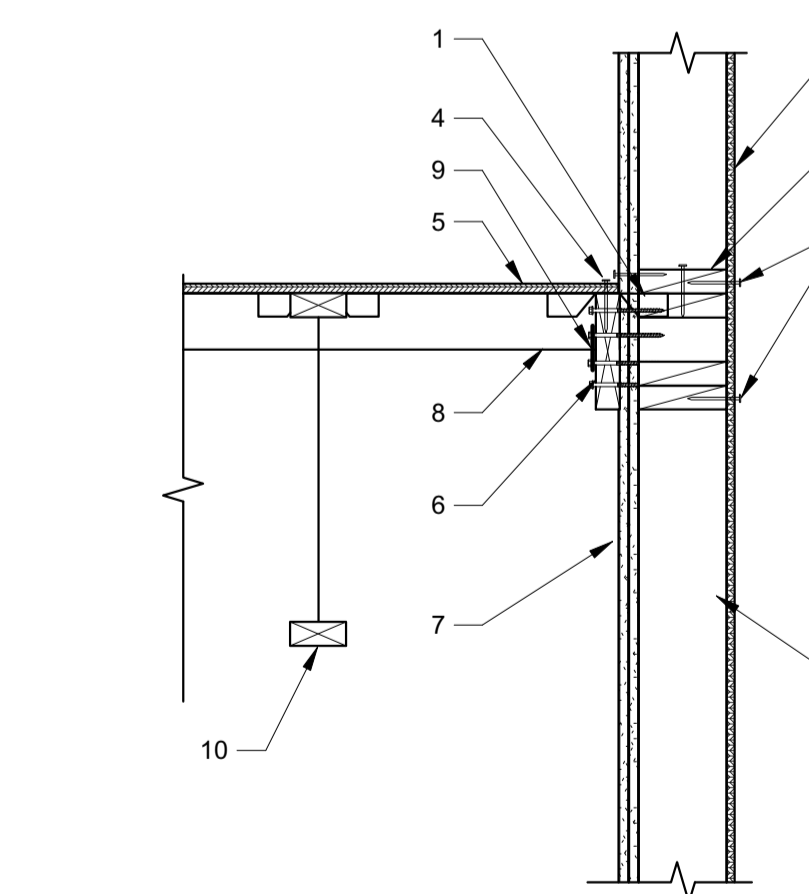
A3 TYPICAL STEEL BEAM TO STEEL COLUMN
NO SCALE 415-17M S3.1



B4 WOOD JOIST AT WOOD STUD WALL
NO SCALE 625-06 S3.1

- WOOD STUD WALL.
- (2) 2x CONTINUOUS WOOD TOP PLATES.
- SHEATHING MATERIAL AS OCCURS PER PLAN. FINISH PER ARCH'L.
- PREFABRICATED WOOD TRUSS.
- CONTINUOUS BLOCKING WITH 16d TOE NAILS AT 6" O.C. (3) MINIMUM BETWEEN TRUSSES.
- SIMPSON H3 CONNECTOR AT EVERY OTHER STUD. CONNECTOR NOT REQUIRED IF PLYWOOD IS NAILED DIRECTLY TO CONTINUOUS TOP AND BOTTOM PLATES.
- EDGE NAILING TO RIM BOARD.
- PLYWOOD ROOF SHEATHING PER PLANS.
- PRE-NOTCHED PLATE WITH 16d NAILS AT 12" O.C.

NOTE:
• FOR NUMBER OF REQUIRED PRE NOTCHED PLATES SEE DETAIL B3/S5.2.



A4 CONTINUOUS WOOD LEDGER AT WOOD STUD WALL
NO SCALE 637-02M S3.1

- SIMPSON H2.5 AT EACH STUD.
- (2) 2x BLOCKING WITH (3) 16d NAILS PER BLOCK.
- WOOD STUD WALL PER PLAN.
- EDGE NAILING.
- PLYWOOD SHEATHING. MIN 3/8" CONTINUOUS LEDGER CONNECTED DIRECTLY TO STUDS WITH (2) 16d NAILS EACH STUD AND (3) 16d EACH BLOCK. AT FIRE RATED WALL PROVIDE 3x12 LEDGERS ON FACE OF FIRE ASSEMBLY SHEATHING AS SHOWN WITH (4) 1/4"x4 1/2" SIMPSON SDS SCREWS AT EACH STUD.
- SHEATHING MATERIAL AS OCCURS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATING REQUIREMENTS.
- 2x BLOCKING AT 24" O.C. FOR 3 BAYS WITH EDGE NAILING TO ROOF SHEATHING AND H2.5 EACH END. ALIGN BLOCKING AT TRUSS CHORDS AND STAGGER H2.5 CLIPS.
- MIN. SIMPSON ST6224 STRAP CENTERED AT LEDGER SPLICE LOCATIONS.
- PREFAB WOOD T.JL TRUSS.

SELF CERTIFIED BY: DONALD ANDREWS DATE: 03/06/2019 CERTIFICATE #45

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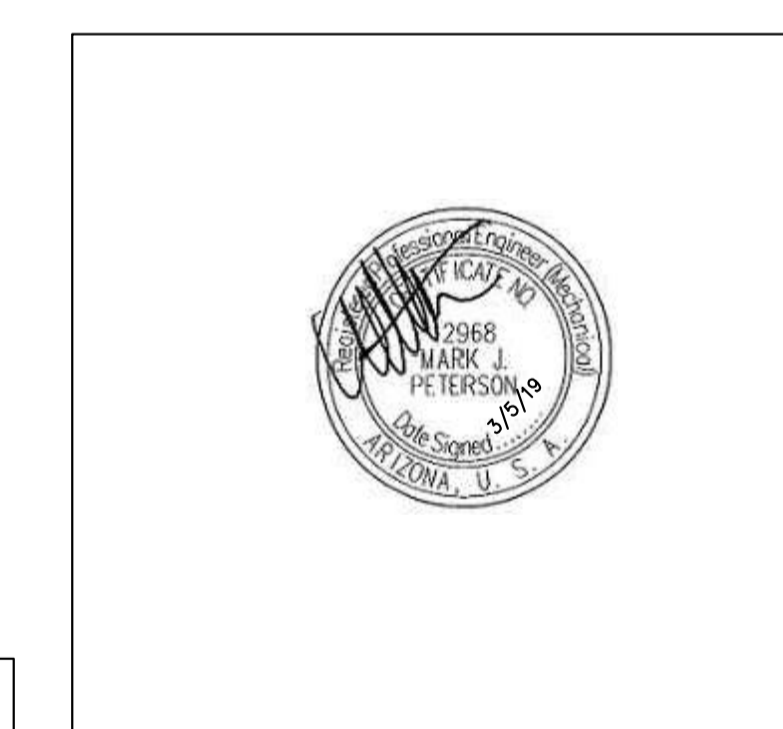
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NO.	DESCRIPTION	DATE
-	PRE-APP MTG	10.10.18
-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19



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PLUMBING SCHEDULES & NOTES

Date 10/08/18

P001

Scale AS SHOWN

KIVA #18-1372
SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION
WC-1	TANK TYPE WATER CLOSET (HANDICAPPED); AMERICAN STANDARD 215AA.104 "CADET PRO" 16-1/2" HIGH FLOOR MOUNTED, VITREOUS CHINA, ELONGATED BOWL, SIPHON JET BOWL, EVERCLEAN ANTIMICROBIAL SURFACE, 1.28 GPF CONSUMPTION, WHITE IN COLOR OR AS SELECTED BY ARCHITECT. PROVIDE AMERICAN STANDARD 5901.100SS WHITE OPEN FRONT SEAT WITH SELF-SUSTAINING CHECK HINGE WITHOUT COVER. SUPPLY: WATTS BV894012K 5/8" X 3/8" OD CHROME PLATED LOOSE KEY QUARTER TURN BALL VALVE STYLE COMPRESSION ANGLE STOP WITH 12" FLEXIBLE RISER TUBE AND ESCUTCHEON.
L-1	WALL HUNG LAVATORY (HANDICAPPED); AMERICAN STANDARD 0355.012 "LUCERNE", 20" X 18", VITREOUS CHINA, WALL HUNG LAVATORY WITH FRONT OVERFLOW, SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS AND CONCEALED WALL HANGER. SHALL INCLUDE 4TH HOLE DRILLING TO RIGHT FOR SOAP DISPENSER. SUPPLY FITTING: SYMONS MODEL S-60-G-H 4" CENTER SET SLOW-CLOSING LAVATORY FAUCET, WITH BLADE HANDLE, 0.5 GPM FLOW RATE AND WATTS 629203C CAST BRASS DRAIN WITH INTEGRAL PERFORATED GRID AND 1-1/4" TAILPIECE. WATTS 519-173R 1-1/4" X 1-1/2" SEMI-CAST BRASS P-TRAP WITH CLEANOUT. PROVIDE WATTS LFBV894016K 5/8" X 3/8" OD LOW LEAD CHROME PLATED LOOSE KEY QUARTER TURN BALL VALVE STYLE COMPRESSION ANGLE STOPS WITH 16" FLEXIBLE RISER TUBES AND ESCUTCHEONS. CERTIFIED TO NSF/ANSI STANDARD 61-G SECTION 9.
HB-1	HOSE BIBB: "WOODFORD" MODEL 24P-3/4" ANTI-SIPHON VACUUM BREAKER. WALL FAUCET

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	TRAP SIZE	WASTE	VENT	COLD WATER	HOT WATER	REMARKS
WC-1	WATER CLOSET TANK TYPE	INTEGRAL	4"	2"	1/2"	-	(HDCP)
L-1	LAVATORY	1-1/2"	2"	1-1/2"	1/2"	1/2"	(WALL MOUNT)
HB-1	HOSE BIBB	-	-	-	3/4"	-	W/ VACUUM BREAKER

INSTANTANEOUS WATER HEATER SCHEDULE

MARK	MODEL	TYPE	ELECTRICAL			TEMP. RISE	REMARKS
			KW	VOLTS	PHASE		
IWH-1&2	CHRONOMITE M-30L	DOMESTIC HOT WATER	3.6	120	1	57° F.	SET TEMPERATURE FOR 105°

WATER CALCULATION - UPC 2018

FIXTURE NAME	NO.	F.U.	ITL
WATER CLOSET (F.T.)	2	2.5	5
LAVATORY	2	1.0	2
HOSE BIBB	2	2.5	5
TOTAL FIXTURE UNITS			12
12 FIXTURE UNITS = 9 GALLONS PER MINUTE (G.P.M.)			
PIPE LENGTH TAP TO METER			30 FT.
PIPE LENGTH METER TO LAST FIXTURE			185 FT.
VERTICAL PIPE LENGTH TO HIGHEST FIXTURE			13 FT.
TOTAL PIPE LENGTH			228 FT.
FITTING LOSS (25%)			57 FT.
TOTAL DEVELOPED LENGTH			285 FT.
WATER PIPE SIZING CRITERIA			
STREET PRESSURE (FIELD VERIFY)			60.00 PSI
WATER METER LOSS (EXISTING 5/8" METER)(FIELD VERIFY)			8.00 PSI
STATIC LOSS (13' x 0.43)			5.59 PSI
PRESSURE RESERVED FOR FIXTURES			20.00 PSI
REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)			12.00 PSI
PRESSURE AVAILABLE FOR PIPING			14.41 PSI
14.41 PSI / 285 FEET x 100 = 5.0			MAXIMUM PSI DROP ALLOWABLE PER 100 FEET PIPE LENGTH
BRANCH PIPE SIZING CHART FOR 5 PSI LOSS			
PIPE SIZE	G.P.M.	F.U.(TANK)	F.U.(F.V.)
1/2"	1-2	0-2	-
3/4"	3-6	3-7	-
1"	7-13	8-19	-

LOW FLOW REQUIREMENTS

ALL PLUMBING FIXTURES SHALL HAVE FLOW REDUCERS OR BE SO CONSTRUCTED TO MEET THE FOLLOWING REQUIREMENTS:

WATER CLOSET (TANK TYPE)	1.6 GALLONS PER FLUSH
WATER CLOSETS (FLOOR MOUNT-FLUSHMETER)	1.6 GALLONS PER FLUSH
URINALS	1.0 GALLONS PER FLUSH
SHOWER HEADS	3 GPM AT 80 PSI
LAVATORY FAUCETS (PUBLIC)	.5 GPM AT 80 PSI
RESIDENTIAL KITCHEN SINK FAUCETS	2.5 GPM AT 80 PSI
RESIDENTIAL BAR SINK FAUCETS	2.5 GPM AT 80 PSI
LAVATORY FAUCETS (RESIDENTIAL)	.5 GPM AT 80 PSI

PUBLIC RESTROOMS: IN ADDITION TO THE MAXIMUM RATE OF FLOW, LAVATORY FAUCETS IN PUBLIC RESTROOMS SHALL BE OF THE METERING, SELF CLOSING TYPE.

PIPE AND FITTINGS

SERVICE	PIPE	FITTINGS
SANITARY DRAIN, WASTE AND VENT, AND RAINWATER INTERIOR, ABOVE GRADE	CAST IRON, HUBLESS, SERVICE WEIGHT, CISPI 301	CAST IRON, WITH NEOPRENE GASKETED JOINTS & STAINLESS STEEL CLAMP- AND-SHIELD ASSEMBLIES.
WATER PIPING BELOW GRADE	TYPE "K" SOFT TEMPER COPPER TUBING	NO JOINTS PERMITTED BELOW FLOOR
ALL WATER PIPING ABOVE GRADE	TYPE "L" HARD DRAWN COPPER, ASTM B88	WROUGHT COPPER SOLDER TYPE CONFORMING TO ASME B16.22
NATURAL GAS PIPING ABOVE GRADE	SCHEDULE 40 BLACK STEEL PIPE	ASME B16.3 MALLEABLE IRON OR ASTM A234/A234M WROUGHT STEEL WELDING TYPE
SANITARY DRAIN, WASTE AND VENT, AND RAINWATER INTERIOR, BELOW GRADE WITHIN 5 FEET OF BUILDING	CAST IRON, HUBLESS, SERVICE WEIGHT, CISPI 301	CAST IRON, WITH NEOPRENE GASKETED JOINTS & STAINLESS STEEL CLAMP- AND-SHIELD ASSEMBLIES.
	PVC PIPE ASTM D2665 OR ASTM D3034	PVC FITTINGS, SOLVENT WELDED WITH ASTM D2564 SOLVENT CEMENT.

FIELD VERIFICATION NOTES:

- THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID. THE FOLLOWING ITEMS SHALL BE VERIFIED:
 - EXACT PLACEMENT, SIZE AND INVERT ELEVATION OF ALL EXISTING WASTE PIPING.
 - EXACT PLACEMENT AND SIZE OF ALL EXISTING COLD WATER PIPING.
 - EXACT PLACEMENT AND SIZE OF ALL EXISTING VENT PIPING.
- ALL REFERENCES ON THESE DRAWINGS TO EXISTING WASTE, WATER AND VENT PIPING IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN HIS BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.

PLUMBING CONSTRUCTION NOTES

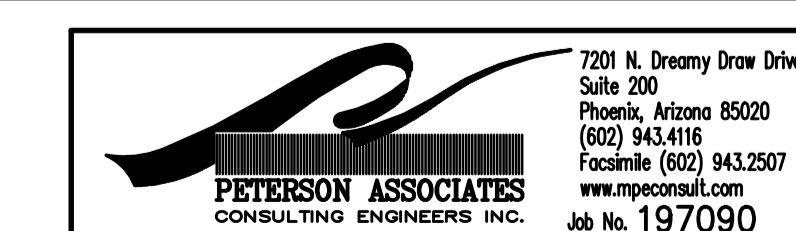
- EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- BEFORE SUBMITTING BID, THE PLUMBING CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND INCLUDE IN HIS BID AN AMOUNT TO FURNISH AND INSTALL ANY FIXTURES WHICH ARE SHOWN IN ADDITION TO FIXTURES SHOWN ON THE PLUMBING DRAWINGS.
- CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW WASTE SYSTEM.
- CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
- THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALTIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.
- ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
- WHERE POSSIBLE, THE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH THE ROOF.
- CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
- CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
- CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES FOR SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
- VERTICAL STRAIGHT RUNS OR PVC DWV SHALL BE PROTECTED FROM EXPANSION AND CONTRACTION UTILIZING ONE OR MORE OF THE FOLLOWING METHODS:
 - PROVIDE A MINIMUM OF 24 INCHES, 45 DEGREE OFFSETS EVERY 30 FEET.
 - PROVIDE CERTIFIED AND LISTED EXPANSION FITTINGS AS MANUFACTURED BY CANPLAS INDUSTRIES, LTD., OR EQUAL, IN VERTICAL RUNS IN EXCESS OF 30 FEET PROVIDED THAT THEY ARE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- WHEN WATER PIPE AND SEWERS ARE LAID PARALLEL TO EACH OTHER, ONE OF THE FOLLOWING PROCEDURES MUST BE FOLLOWED:
 - THE HORIZONTAL DISTANCE BETWEEN THE WATER PIPE AND SEWER SHALL NOT BE LESS THAN SIX (6) FEET. EACH LINE SHALL BE LAID IN A SEPARATE TRENCH OR THE SPACE IN BETWEEN FILLED WITH COMPACT FILL.
 - THE WATER SERVICE PIPE MAY BE PLACED IN THE TRENCH WITH THE BUILDING DRAIN AND/OR BUILDING SEWER, PROVIDED THE BOTTOM OF THE WATER SERVICE PIPE, AT ALL POINTS SHALL BE AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER LINE, AND SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH. SAID WATER SERVICE AND SEWER SHALL BE CONSTRUCTED OF MATERIALS APPROVED FOR USE WITHIN A BUILDING AND PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.
 - WATER SERVICE SHALL BE COPPER TO A MINIMUM 10'-0" OUTSIDE OF BUILDING FOR ELECTRICAL GROUNDING PURPOSES.

PLUMBING LEGEND

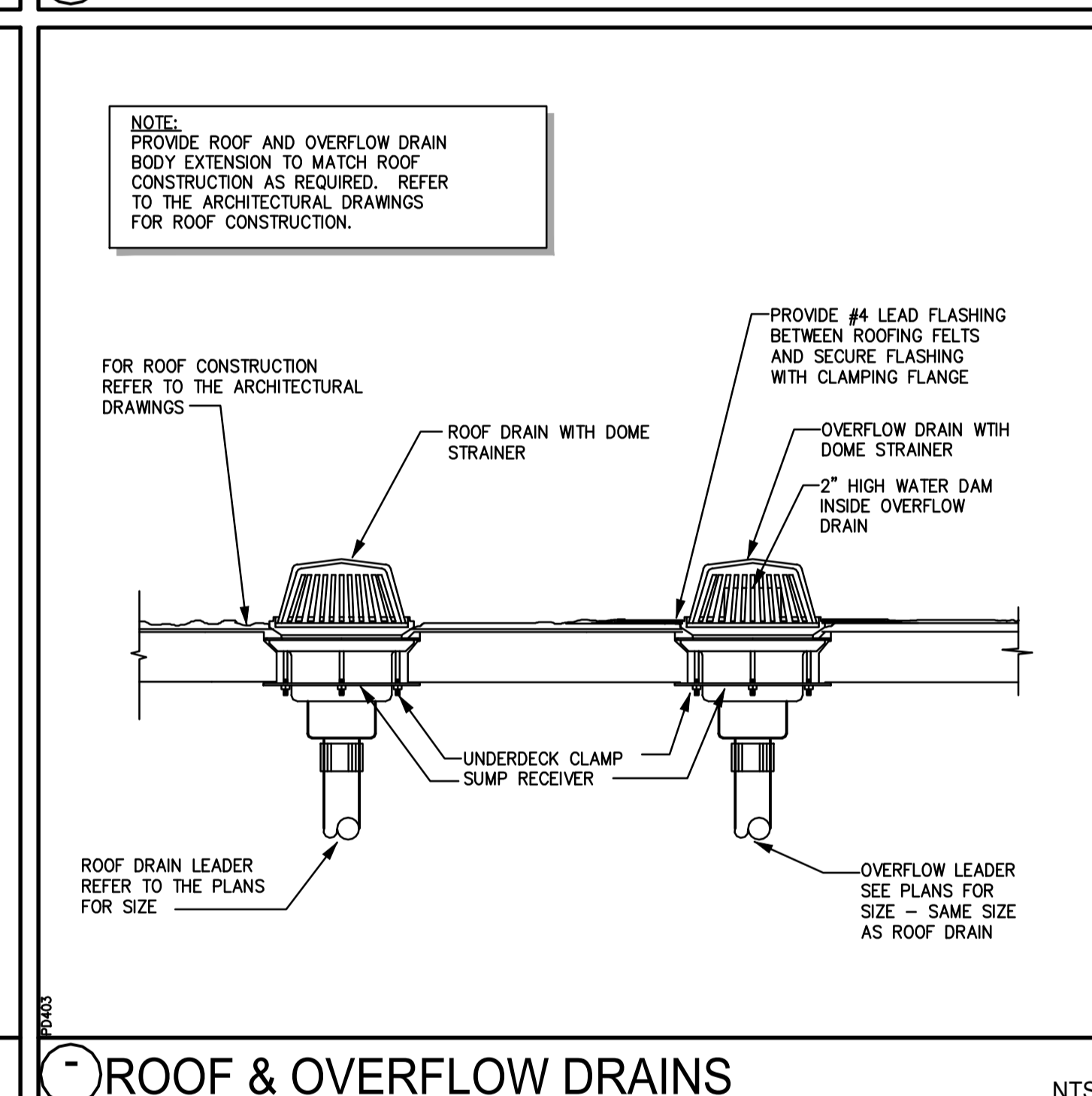
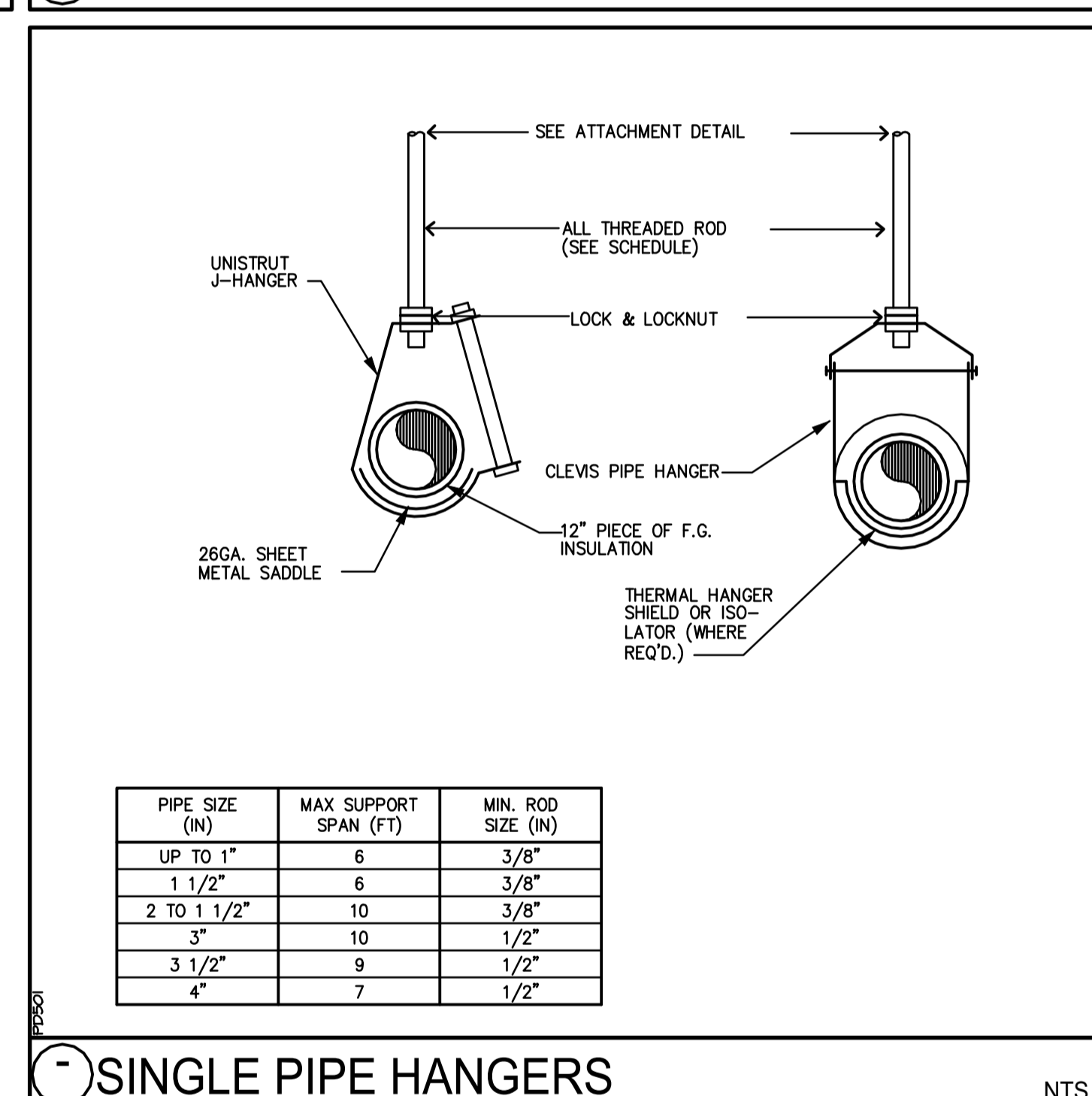
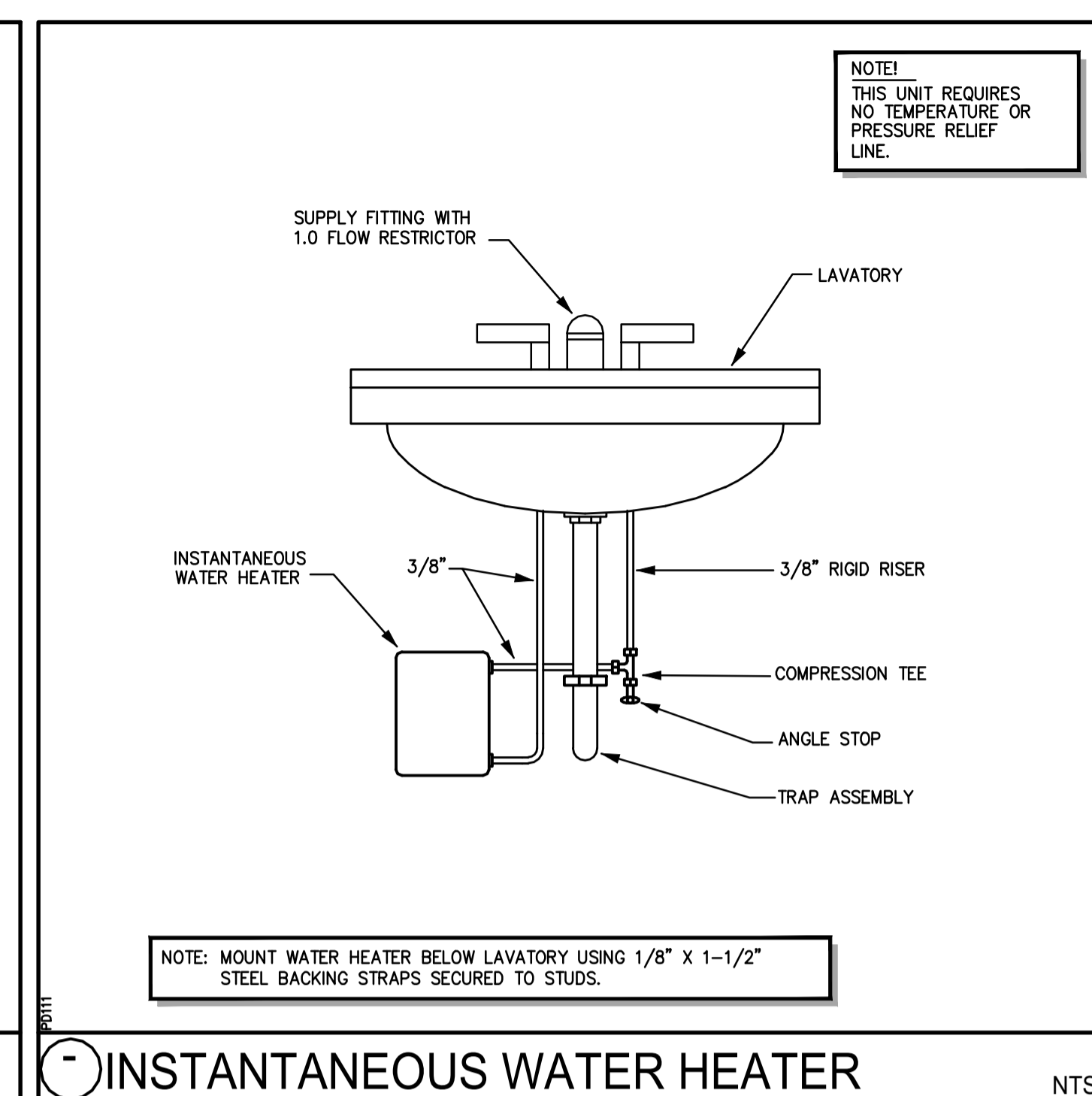
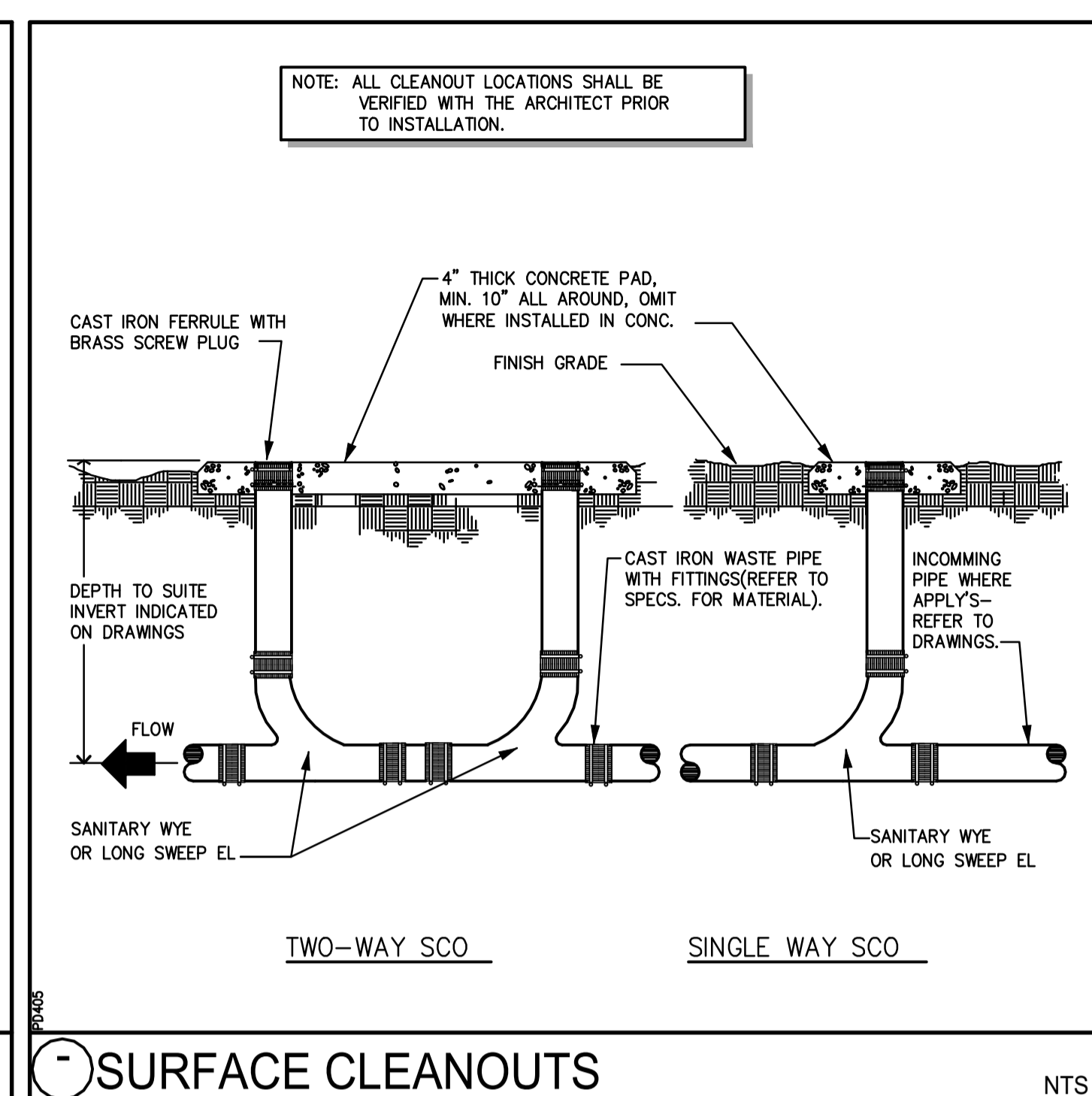
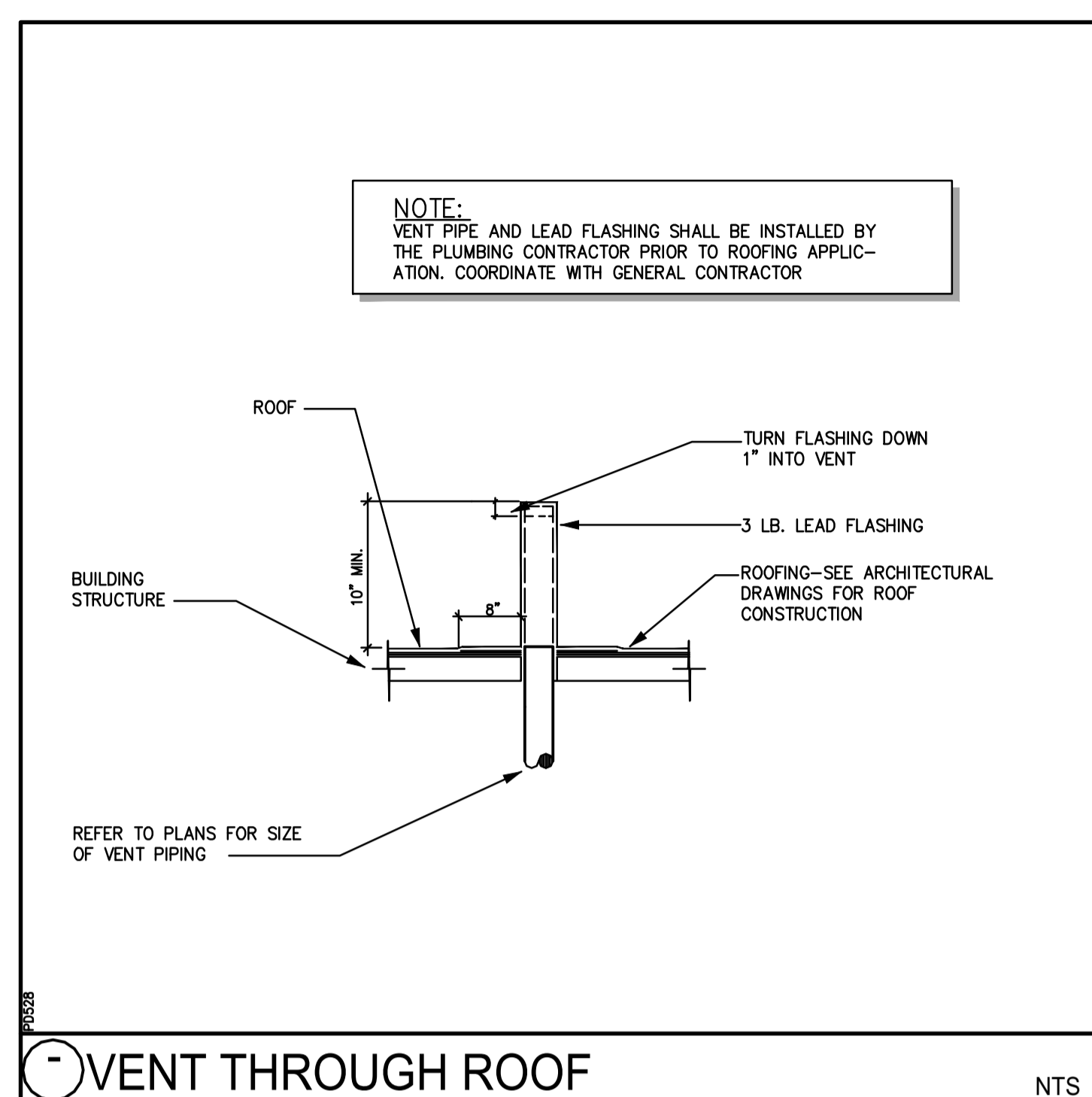
SYMBOL	ABBR.	DESCRIPTION
---	W	DRAIN OR WASTE PIPING
---	V	VENT PIPING
---	CW	COLD WATER PIPING
---	HW	HOT WATER PIPING
---	HWR	HOT WATER RETURN PIPING
---	G	NATURAL GAS PIPING
---	LPG	LIQUIFIED PETROLEUM GAS PIPING
---	RDL	ROOF DRAIN LEADER
---	ODL	OVERFLOW DRAIN LEADER
---	A	COMPRESSED AIR PIPING
---	RO	REVERSE OSMOSIS WATER PIPING
---	F	FIRE SPRINKLER PIPING
---	GV	GATE VALVE
---	GBV	GLOBE VALVE
---	CV	CONTROL VALVE (TWO & THREE-WAY)
---	BFV	BUTTERFLY VALVE (MANUAL & MOTORIZED)
---	BV	BALL VALVE
---	CKV	CHECK VALVE
---	BLV	BALANCE & FLOW CONTROL VALVE W/TAPS
---	NV	NEEDLE VALVE
---	MAV	MANUAL AIR VENT
---	AAV	AUTOMATIC AIR VENT (PIPE DRAIN TO F.S.)
---	ITW	INSTRUMENT THERMOMETER WELL
---	PP	PETE'S PLUG WITH P.T. ATTACHMENT
---	PG	PRESSURE GAUGE & COCK (STEAM SIPHON)
---	TH	THERMOMETER
---	ST	STRAINER W/FULL SIZE BLOW DOWN VALVE.
---	FLG	FLANGE
---	---	REDUCERS: A = ECCENTRIC; B = CONCENTRIC
---	---	GAS COCK, GAS STOP VALVE
---	U	UNION
---	HB	HOSE BIBB
---	NFHB	NON-FREEZE HOSE BIB
---	FS	FLOOR SINK
---	FD	FLOOR DRAIN
---	FCO	FLOOR CLEANOUT
---	SCO	SURFACE CLEANOUT
---	WCO	WALL CLEANOUT
---	RD	ROOF DRAIN
---	OFD	OVERFLOW DRAIN
---	VTR	VENT THRU ROOF
---	SW	SOFT WATER
---	D	INDIRECT WASTE
---	POC	POINT OF CONNECTION BETWEEN NEW AND EXISTING
---	TP	TRAP PRIMER
---	AP	ACCESS PANEL
---	WHA	WATER HAMMER ARRESTOR
---	AAV	AIR ADMITTANCE VALVE

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PLUMBING DETAILS

Date 10/08/18

P002

Scale AS SHOWN

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KIVA #18-1372
SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36

KEY NOTES:

1. EXTEND AND CONNECT 1" CW LINE TO EXISTING 3/4" WATER METER. PROVIDE NEW 1" RPBP WITH LOCKING CAGE. FIELD VERIFY EXACT POINT OF CONNECTION, AND SIZE. PRIOR TO ANY WORK.
2. EXTEND AND CONNECT 4" WASTE LINE TO EXISTING WASTE MAIN IN ALLEY. FIELD VERIFY EXACT POINT OF CONNECTION, SIZE, FLOW, AND INVERT ELEVATION. PRIOR TO ANY WORK.
3. REMOVE EXISTING GAS METER. STUB EXISTING SOUTHWEST GAS SERVICE LINE FOR FUTURE CONNECTION.
4. SEE SHEET P200 FOR CONTINUATION.

FIELD VERIFICATION NOTES:

1. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID. THE FOLLOWING ITEMS SHALL BE VERIFIED:
 - A. EXACT PLACEMENT, SIZE AND INVERT ELEVATION OF ALL EXISTING WASTE PIPING.
 - B. EXACT PLACEMENT AND SIZE OF ALL EXISTING COLD WATER PIPING.
 - C. EXACT PLACEMENT AND SIZE OF ALL EXISTING VENT PIPING.
2. ALL REFERENCES ON THESE DRAWINGS TO EXISTING WASTE, WATER AND VENT PIPING IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN HIS BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
3. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
4. ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.

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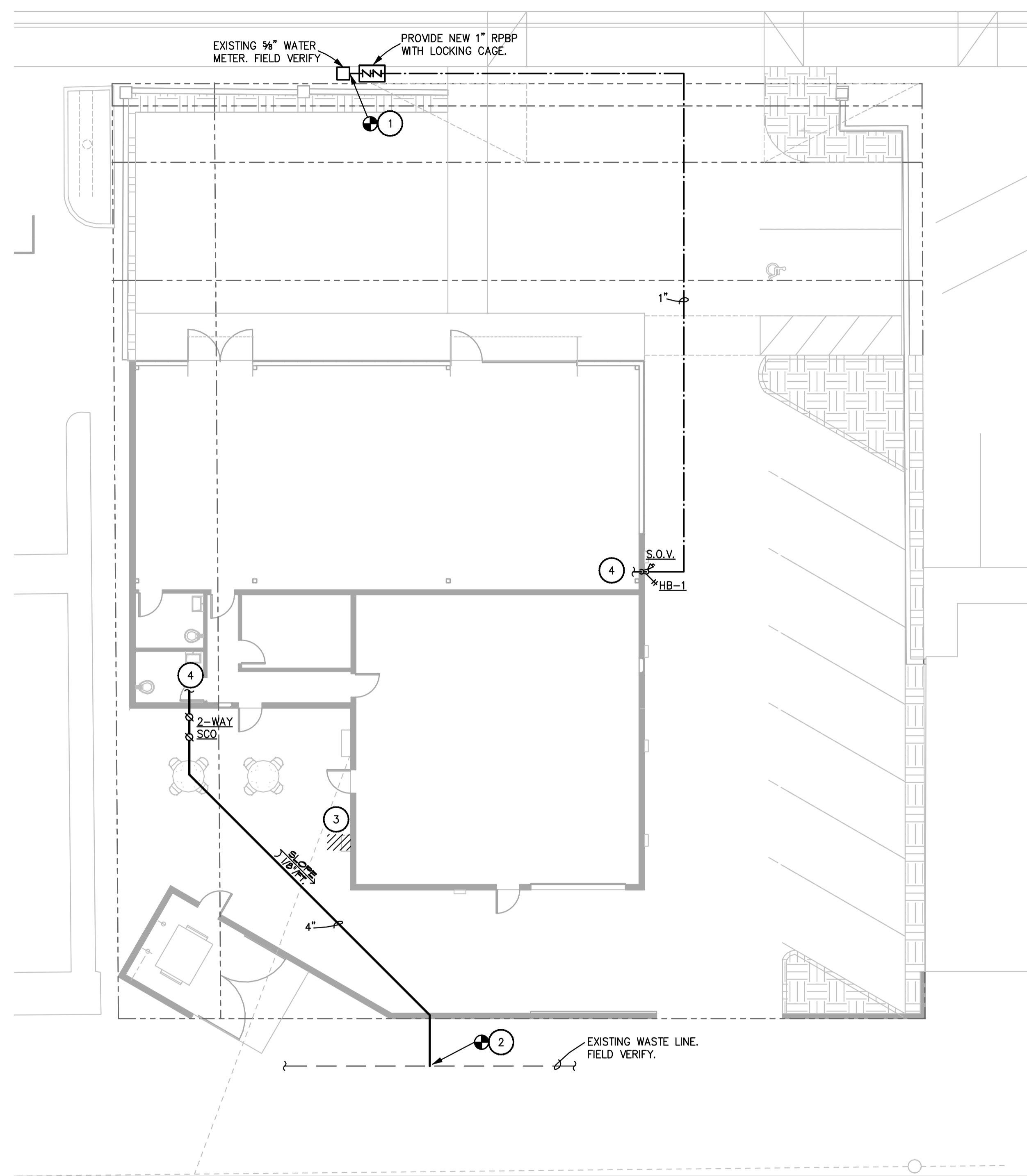
PLUMBING SITE PLAN

Date 10/08/18

P100

Scale AS SHOWN

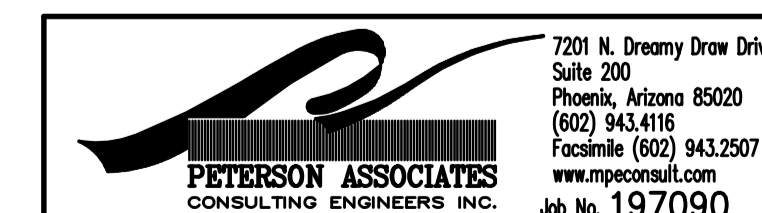
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 PAPP #1806619
 PRLC
 QS Q16-36



PLUMBING SITE PLAN
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KEY NOTES:

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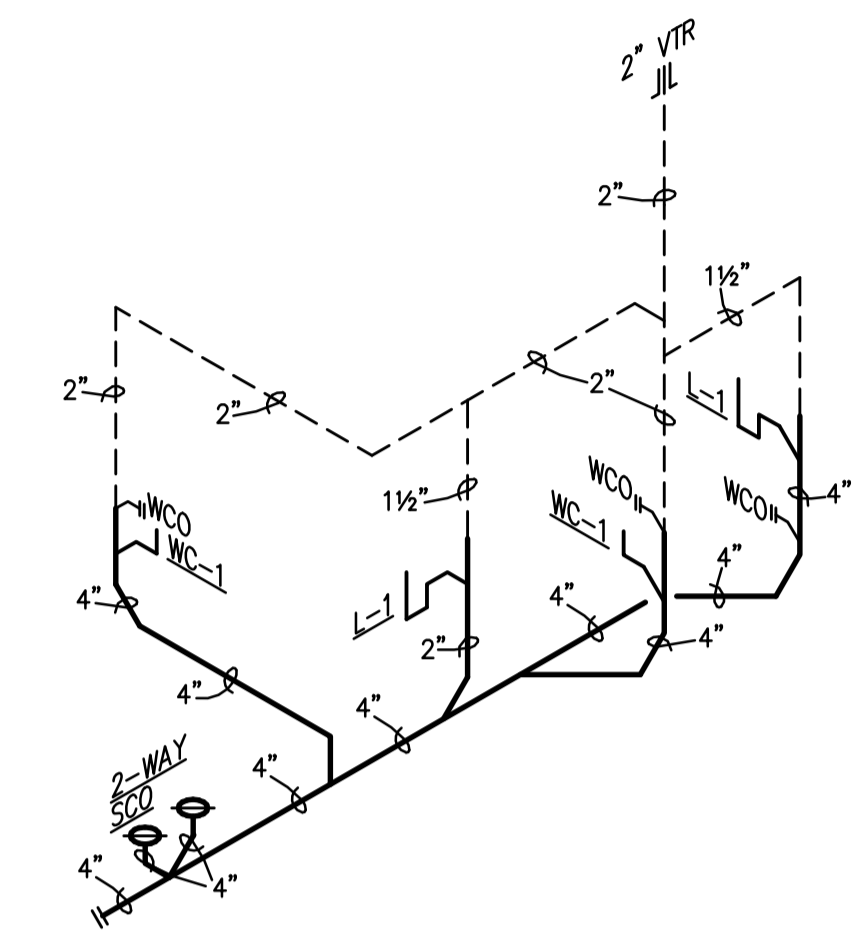
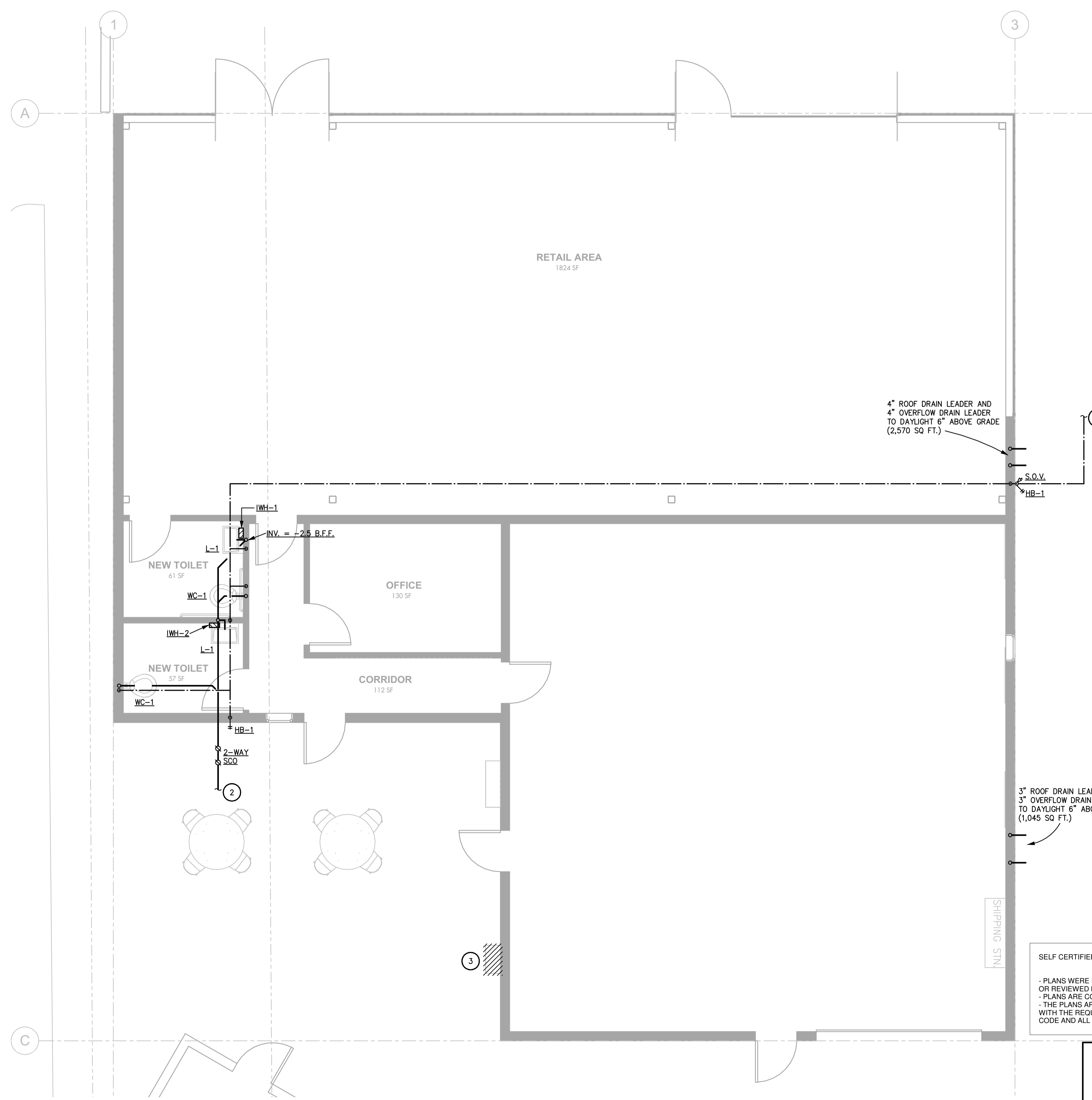
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Date 10/08/18

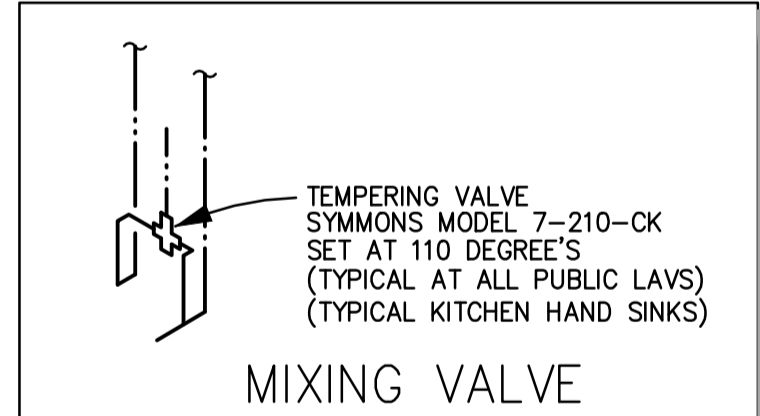
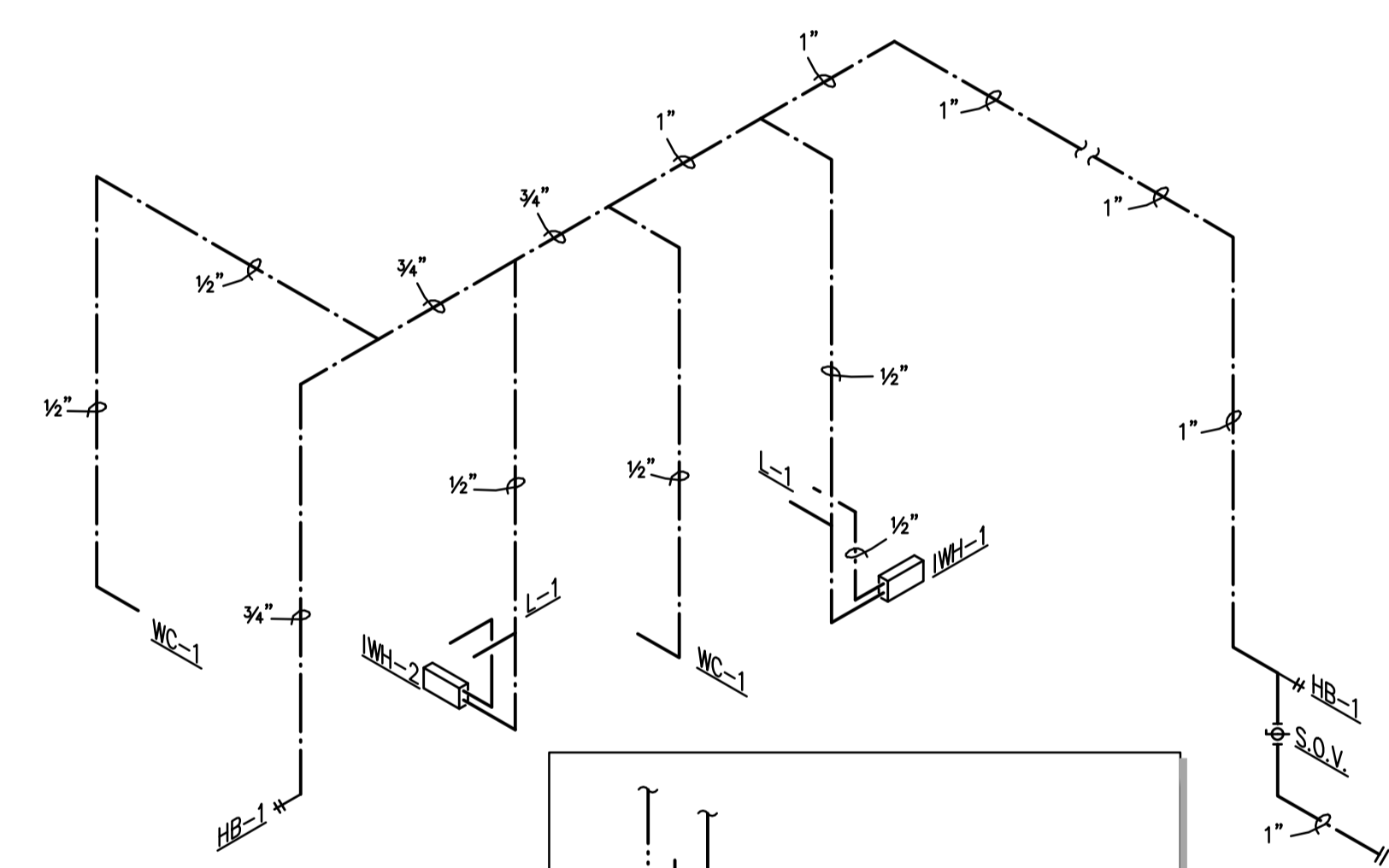
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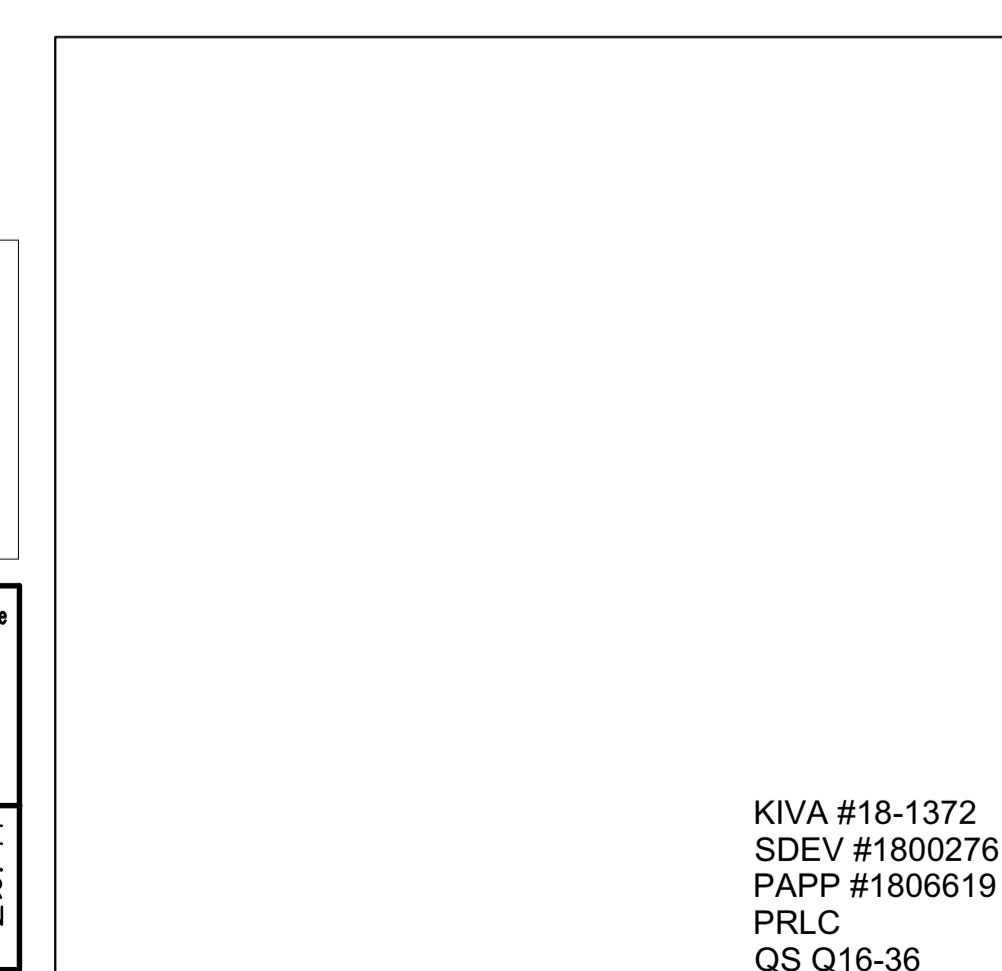
KIVA #18-1372
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 PAPP #1806619
 PRLC
 QS Q16-36



WASTE AND VENT DIAGRAM
 N.T.S.

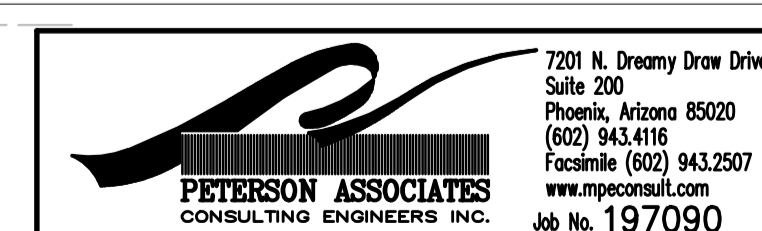


MIXING VALVE
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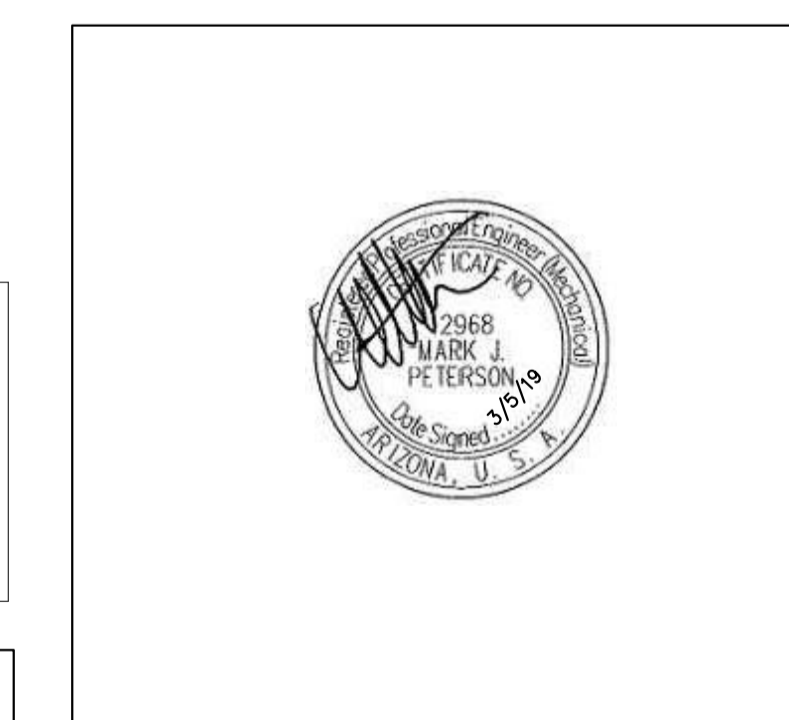
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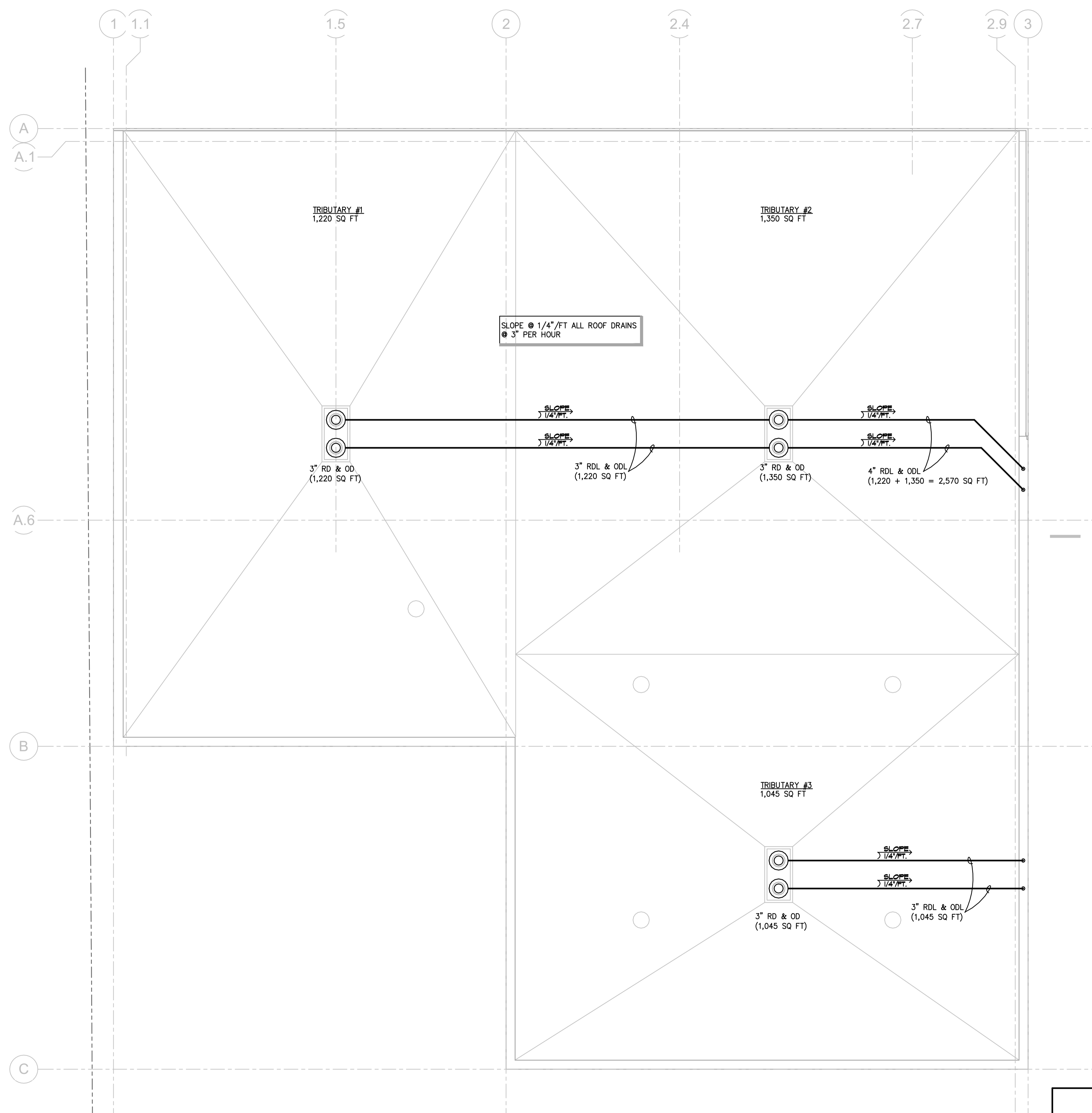
PLUMBING ROOF PLAN

Date 10/08/18

P300

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SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36



PLUMBING ROOF PLAN
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- THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

Owner JONATHAN PITT
Proj. Nam WANDERIST OFFICE & RETAIL

PLUMBING SPECIFICATIONS

Date 10/08/18

P400

Scale AS SHOWN
KIVA #18-1372
SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36

SECTION 22 0101
PLUMBING SHEET SPECIFICATION (NEW BLDG - NAT GAS)

PART 1 GENERAL
1.01 SCOPE OF WORK

A. Perform all labor and furnish all materials, fixtures and equipment required to provide a complete plumbing installation as indicated on the drawings. Include furnishing and installing all miscellaneous items required for the operation of the systems, whether specifically called for or not. Connect all equipment furnished under other trades as required. Determine in advance the shut-down of existing utilities.

1.02 INSPECTION AND TESTS

A. Furnish Architect with certificate of inspection and approval by local authorities and required test reports prior to final acceptance of the project by the Architect. All work must be inspected and tested per local code requirements.

1.03 PROJECT COORDINATION

A. All Contractors shall be responsible for coordinating Work with other trades and for cutting and re-finishing of existing walls, floors, solid and suspended ceilings, etc., where required by Work shown and noted herein. Install all Work to clear new and existing architectural and structural members. Items such as pipe, fittings, etc., shall not be installed in conflict with equipment. Coordinate all cutting and patching with the General Contractor. Subcontractor shall be responsible for all cutting and patching of his Work. Obtain written permission of Architect before proceeding with any cutting or patching of structural systems.

B. Any discrepancies which may affect the Contractor's bid shall be brought to the attention of the Engineer and Architect for direction.

C. During construction, coordinate use of site and facilities and work sequence to meet the project requirements.

D. The Contractor shall coordinate with Electrical Subcontractor to insure proper electrical hookup for all plumbing equipment.

E. The Contractor shall coordinate with Mechanical Subcontractor to insure gas hookup for gas fired equipment.

F. Final location, quantity and type of fixtures shall be determined from the Architectural plans.

G. Final positioning of water heaters shall be per manufacturers installation instructions.

1.04 SUBMITTALS

A. See Architectural Administrative Requirements, for submittal procedures.

B. Product Data: Provide data on pipe materials, pipe fittings, plumbing fixtures, plumbing specialties, valves, insulation, and accessories. Provide manufacturers' catalog information. Indicate valve data and ratings.

C. Project Record Documents: Provide two (2) sets of Record Documents and two (2) bound sets of all operation manuals, diagrams, service contracts, guarantees, etc. for Owner's use. Record actual locations of all piping, valves or equipment and incorporate into the Record Documents to show the final "Installed" conditions.

D. Submit only those manufacturers listed on the drawings or in the specific section unless prior approval was obtained.

E. Submit shop drawings and product data grouped to include complete submittals of related systems, products, and accessories in a single submittal. Partial submittals will not be reviewed by the Engineer.

F. Mark dimensions and values in units to match those specified.

G. Clearly identify specific components on multi-item equipment or data sheets.

H. The Installing Contractor shall review all submittals for compliance with plans and specifications. The contractor shall stamp each item in the submittal indicating that the review process has been completed.

I. Any discrepancies in the submittals from the requirements of the plans and specifications shall be noted by the Installing Contractor. If major discrepancies, errors, or product omissions are found, the Installing Contractor shall correct the submittals before forwarding for review by the Engineer.

1.05 REQUEST FOR INFORMATION

A. Requests for information are to be submitted to the Architect/Engineer by the General Contractor.

B. Sufficient back-up information shall be included to describe the situation. Where possible a suggested solution shall be included to facilitate response time.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of experience.

B. Installer Qualifications: Company specializing in performing the work of this section with minimum five years of experience.

C. Valves: Manufacturer's name and pressure rating marked on valve body.

D. Welding Materials and Procedures: Conform to ASME (BPV IX) and applicable state labor regulations.

E. Welders Certification: In accordance with ASME (BPV IX).

F. Identify pipe with marking including size, ASTM material classification, ASTM specification, potable water certification, water pressure rating.

1.07 REGULATORY REQUIREMENTS

A. All materials, equipment and installation must comply with all applicable laws, codes, rules, and regulations, required by City, County and State, as well as Federal requirements.

B. Conform to applicable code for installation of backflow prevention devices.

C. Provide certificate of compliance from authority having jurisdiction indicating approval of installation of backflow prevention devices.

1.08 DELIVERY, STORAGE, AND PROTECTION

A. Accept valves on site in shipping containers with labeling in place. Inspect for damage.

B. Provide temporary protective coating on cast iron and steel valves.

C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

D. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work, and isolating parts of completed system.

1.09 WARRANTY

A. Contractor shall guarantee all materials, equipment and workmanship from defect and shall replace or repair, without additional cost to the Owner, all defective material, equipment and workmanship for a period of one year after Date of Substantial Completion.

B. Submit manufacturers' warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

PART 2 PRODUCTS

2.01 APPROVED MANUFACTURERS
A. Manufacturers as indicated in these documents are approved for use in this project under the terms and conditions shown on the plans and in these specifications. Deviations from the drawings and specifications will not be allowed.
B. Substitutions of materials or products shown herein shall be at the Owner's, Architect's or Engineer's written approval only and must be made in accordance with the Architect's requirements.

2.02 SANITARY SEWER PIPING, BURIED WITHIN 5 FEET OF BUILDING

A. Cast Iron Pipe: CISPI 301, hubless.
1. Fittings: Cast iron.
2. Joints: CISPI 310, neoprene gasket and stainless steel clamp and shield assemblies.
B. PVC Pipe: ASTM D 2665 or ASTM D 3034.
1. Fittings: PVC.
2. Joints: Solvent welded, with ASTM D 2564 solvent cement.

2.03 SANITARY SEWER PIPING, ABOVE GRADE

A. Cast Iron Pipe: CISPI 301, hubless, service weight.
1. Fittings: Cast iron.
2. Joints: CISPI 310, neoprene gaskets and stainless steel clamp-and-shield assemblies.

2.04 WATER PIPING, BURIED WITHIN 5 FEET OF BUILDING

A. Copper Pipe: ASTM B 42, hard drawn, Type K.
1. Fittings: ASME B16.18, cast copper alloy or ASME B16.22 wrought copper and bronze.
2. Joints: ASTM B 32, alloy Sn95 solder.
B. Up to 2 Inches (50 mm):
1. MSS SP-80, Class 125, bronze body and cap, bronze swing disc with rubber seat, solder or threaded ends.
C. Over 2 Inches (50 mm):
1. MSS SP-71, Class 125, iron body, bronze swing disc, renewable disc seal and seat, flanged or grooved ends.

2.05 WATER PIPING, ABOVE GRADE

A. Copper Tube: ASTM B 88 (ASTM B 88M), Type L (B), Drawn (H).
1. Fittings: ASME B16.18, cast copper alloy or ASME B16.22, wrought copper and bronze.
2. Joints: ASTM B 32, alloy Sn95 solder.
2.06 STORM WATER PIPING, BURIED WITHIN 5 FEET OF BUILDING
A. Cast Iron Pipe: CISPI 301, hubless, service weight.
1. Fittings: Cast iron.
2. Joints: Neoprene gaskets and stainless steel clamp-and-shield assemblies.
B. PVC Pipe: ASTM D 2665 or ASTM D 3034.
1. Fittings: PVC.
2. Joints: Solvent welded, with ASTM D 2564 solvent cement.

2.07 STORM WATER PIPING, ABOVE GRADE

A. Cast Iron Pipe: CISPI 301, hubless, service weight.
1. Fittings: Cast iron.
2. Joints: Neoprene gaskets and stainless steel clamp-and-shield assemblies.

2.08 NATURAL GAS PIPING, BURIED WITHIN 5 FEET OF BUILDING

A. Steel Pipe: ASTM A 53/A 53M Schedule 40 black.
1. Fittings: ASTM A 234/A 234M, wrought steel welding type, with AWWA C105/A21.5 polyethylene jacket or double layer, half-lapped 10 mil (0.25 mm) polyethylene tape.
2. Joints: ASME B31.9, welded.
3. Jacket: AWWA C105/A21.5 polyethylene jacket or double layer, half-lapped 10 mil polyethylene tape.

2.09 NATURAL GAS PIPING, ABOVE GRADE

A. Steel Pipe: ASTM A 53/A 53M Schedule 40 black.
1. Fittings: ASME B16.3, malleable iron, or ASTM A 234/A 234M, wrought steel welding type.
2. Joints: NFPA 54, threaded or welded to ASME B31.9.

2.10 FLANGES, UNIONS, AND COUPLINGS

A. Unions for Pipe Sizes 2 inches and Under:
1. Ferrous pipe: Class 150 malleable iron threaded unions.
2. Copper tube and pipe: Class 150 bronze unions with soldered joints.
B. Flanges for Pipe Size Over 2 inches:
1. Ferrous pipe: Class 150 malleable iron threaded or forged steel slip-on flanges; preformed neoprene gaskets.
2. Copper tube and pipe: Class 150 slip-on bronze flanges; preformed neoprene gaskets.
C. Dielectric Connections: Union with galvanized or plated steel threaded end, copper solder end, water impervious isolation barrier.

2.11 PIPE HANGERS AND SUPPORTS

A. Plumbing Piping - Drain, Waste, and Vent:
1. Conform to ASME B31.9.
2. Hangers for Pipe Sizes 1/2 Inch to 1-1/2 Inches: Malleable iron, adjustable swivel, split ring.
3. Hangers for Pipe Sizes 2 Inches and Over: Carbon steel, adjustable, clevis.
4. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.
5. Wall Support for Pipe Sizes to 3 Inches: Cast iron hook.
6. Wall Support for Pipe Sizes 4 Inches and Over: Welded steel bracket and wrought steel clamp.
7. Vertical Support: Steel riser clamp.
8. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.
9. Copper Pipe Support: Carbon steel ring, adjustable, copper plated.

B. Plumbing Piping - Water:
1. Conform to ASME B31.9.
2. Hangers for Pipe Sizes 1/2 Inch to 1-1/2 Inch: Malleable iron, adjustable swivel, split ring.
3. Hangers for Cold Pipe Sizes 2 Inches and Over: Carbon steel, adjustable, clevis.
4. Hangers for Hot Pipe Sizes 2 Inches to 4 Inches: Carbon steel, adjustable, clevis.
5. Multiple or Trapeze Hangers: Steel channels with welded supports or spacers and hanger rods.
6. Multiple or Trapeze Hangers for Hot Pipe Sizes 6 Inches and Over: Steel channels with welded supports or spacers and hanger rods, cast iron roll.
7. Wall Support for Pipe Sizes to 3 Inches: Cast iron hook.
8. Wall Support for Pipe Sizes 4 Inches and Over: Welded steel bracket and wrought steel clamp.
9. Vertical Support: Steel riser clamp.
10. Floor Support for Cold Pipe: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.
11. Floor Support for Hot Pipe Sizes to 4 Inches: Cast iron adjustable pipe saddle, locknut, nipple, floor flange, and concrete pier or steel support.
12. Copper Pipe Support: Carbon steel ring, adjustable, copper plated.

2.12 BALL VALVES

A. Manufacturers: Apollo, Nibco, Milwaukee Valve Company
B. Construction, Up to and including 1 Inch (25 mm): MSS SP-110, Class 150, 400 psi (2760 kPa) CWP, bronze, two piece body, chrome plated brass ball, full port, teflon seats and stuffing box ring, blow-out proof stem, lever handle, solder or threaded ends.

C. Construction, 1-1/2 Inch (38 mm) to 3 Inches (75 mm): MSS SP-110, Class 150, 400 psi (2760 kPa) CWP, bronze, two piece body, chrome plated brass ball, standard port, teflon seats and stuffing box ring, blow-out proof stem, lever handle, solder or threaded ends.

2.13 BUTTERFLY VALVES

A. Manufacturers: Crane Valve, Milwaukee Valve Company
B. Construction 4 Inch (100 mm) and Larger: MSS SP-67, 200 psi (1380 kPa) CWP, cast or ductile iron body, nickel-plated ductile iron disc, resilient replaceable EPDM seat, wafer ends, extended neck, 10 position lever handle.

2.14 FLOW CONTROLS

A. Manufacturers: Griswold Controls
B. Construction: Class 125, Brass or bronze body with union on inlet, temperature and pressure test plug on inlet, blowdown/backflush drain.
C. Calibration: Control flow within 5 percent of selected rating, over operating pressure range of 10 times minimum pressure required for control, maximum minimum pressure.

2.15 SWING CHECK VALVES

A. Manufacturers: Nibco, Milwaukee Valve Company
B. Up to 2 Inches (50 mm):
1. MSS SP-80, Class 125, bronze body and cap, bronze swing disc with rubber seat, solder or threaded ends.
C. Over 2 Inches (50 mm):
1. MSS SP-71, Class 125, iron body, bronze swing disc, renewable disc seal and seat, flanged or grooved ends.

2.16 SPRING LOADED CHECK VALVES

A. Manufacturers: Crane Valve, Milwaukee Valve Company
B. Class 125, iron body, bronze trim, stainless steel springs, bronze disc, Buna N seals, water style ends.

2.17 WATER PRESSURE REDUCING VALVES

A. Manufacturers: Amtrol, Cla-Val, Watts
B. Up to 2 Inches:
1. MSS SP-80, bronze body, stainless steel and thermoplastic internal parts, fabric reinforced diaphragm, strainer, threaded double union ends.
C. Over 2 Inches:
1. MSS SP-85, cast iron body, bronze fitted, elastomeric diaphragm and seat disc, flanged.

2.18 RELIEF VALVES

A. Temperature and Pressure Relief:
1. Manufacturers: Cla-Val, Henry Valve, Watts
2. AGA Z21.22 certified, bronze body, bell seat, stainless steel stem and springs, automatic, direct pressure actuated, temperature relief maximum 210 degrees F, capacity ASME (BPV IV) certified and labeled.

2.19 CLEANOUTS

A. Manufacturers: Jay R. Smith, Josam, Zurn
B. Cleanouts at Exterior Surfaced Areas:
1. Round cast nickel bronze access frame and non-skid cover.
Class 150, threaded bronze body 300 psi (2070 kPa) CWP, Y pattern with 1/32 inch (0.8 mm) stainless steel perforated screen.
C. Cleanouts at Exterior Unsurfaced Areas:
1. Line type with laquered cast iron body and round epoxy coated gasketed cover.

D. Cleanouts at Interior Finished Floor Areas:
1. Laquered cast iron body with anchor flange, threaded top assembly, and round gasketed scored cover in service areas and gasketed depressed cover to accept floor finish in finished floor areas.

E. Cleanouts at Interior Finished Wall Areas:
1. Line type with laquered cast iron body and round epoxy coated gasketed cover, and round stainless steel access cover secured with machine screw.

F. Cleanouts at Interior Unfinished Accessible Areas: Calked or threaded type. Provide bolted stack cleanouts on vertical rainwater leaders.

2.20 WATER HAMMER ARRESTORS

A. Manufacturers: Jay R. Smith, Josam, Zurn
B. Water Hammer Arrestors:
1. Copper construction bellows type sized in accordance with PDI-WH 201, precharged suitable for operation in temperature range, 34 to 250 degrees F and maximum 150 psi working pressure.

2.21 PIPE INSULATION

A. Glass Fiber
1. Manufacturers: Knauf, Johns Manville, Owens Corning
2. Insulation: ASTM C 547; rigid molded, noncombustible.
a. "K" (Ks) value: ASTM C 177, 0.24 at 75 degrees F (0.035 at 24 degrees C).
b. Maximum service temperature: 850 degrees F (454 degrees C).
c. Maximum moisture absorption: 0.2 percent by volume.
3. Insulation: ASTM C 547; semi-rigid, noncombustible, end grain adhered to jacket.
a. "K" (Ks) value: ASTM C 177, 0.24 at 75 degrees F (0.035 at 24 degrees C).
b. Maximum service temperature: 650 degrees F (343 degrees C).
c. Maximum moisture absorption: 0.2 percent by volume.
4. Vapor Barrier Jacket: White kraft paper with glass fiber yarn, bonded to aluminumized film, secured with self sealing longitudinal legs and butt strips or AP jacket with outward cinch expanding staples coated with vapor barrier mastic as needed.
B. Surface Burning Characteristics: Flame spread/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E 84, NFPA 255, or UL 723.
C. Insulate all hot water supply and return piping with 1 inch insulation for pipe sizes under 1-1/2". Insulate all hot water supply and return piping with 1-1/2 inch insulation for pipe sizes of 1-1/2" and over.
D. Insulate fittings, joints, and valves with insulation of like material and thickness as adjoining pipe. Finish with glass cloth and adhesive or PVC fitting covers.

PART 3 EXECUTION

3.01 PREPARATION

A. Ream pipe and tube ends. Remove burrs.
B. Remove scale and dirt, on inside and outside, before assembly.
C. Prepare piping connections to equipment with flanges or unions.

3.02 INSTALLATION

A. Drawings (plans, schematics and diagrams) indicate general location and arrangement of piping systems. Indicated locations and arrangements were used to size pipe and calculate friction loss, expansion, pump sizing and other design considerations. Install piping as indicated, except where deviations to layout are approved on coordination drawings.
B. Install in accordance with manufacturer's instructions.

C. Provide non-conducting dielectric connections wherever jointing dissimilar metals.
D. Route piping in orderly manner and maintain gradient. Route parallel and perpendicular to walls.
E. Install piping to maintain headroom, conserve space, and not interfere with use of space.
F. Group piping whenever practical at common elevations.
G. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
H. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.
I. Provide access where valves and fittings are not exposed.
J. All vent piping penetrating roofed areas to maintain 10'-0" from all air intakes.
K. Combine vents where possible to minimize number of roof penetrations.
L. Install vent piping penetrating roofed areas to maintain integrity of roof assembly.
M. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.
N. Provide support for utility meters in accordance with requirements of utility companies.
O. Install valves with stems upright or horizontal, not inverted.
P. Pipe vents from gas pressure reducing valves to outdoors and terminate in weatherproof hood.
Q. Install water piping to ASME B31.9.
R. Steeve pipes passing through partitions, walls and floors.

S. Pipe Hangers and Supports:

1. Install in accordance with ASME B31.9.
2. Support horizontal piping as scheduled.
3. Install hangers to provide minimum 1/2 inch (15 mm) space between finished covering and adjacent work.
4. Place hangers within 12 inches (300 mm) of each horizontal elbow.
5. Use hangers with 1-1/2 inch (40 mm) minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
6. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.
7. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.
8. Provide copper plated hangers and supports for copper piping.
9. Prime coat exposed steel hangers and supports. Hangers and supports located in crawl spaces, pipe shafts, and suspended ceiling spaces are not considered exposed.
10. Provide hangers adjacent to motor driven equipment with vibration isolation.
11. Support cast iron drainage piping at every joint.

T. Pipe Hanger Spacing:

1. Metal Piping:
a. Pipe size: 1/2 inches (15 mm) to 1-1/4 inches (32 mm):
1) Maximum hanger spacing: 6.5 ft (2 m).
2) Hanger rod diameter: 3/8 inches (9 mm).
b. Pipe size: 1-1/2 inches (40 mm) to 2 inches (50 mm):
1) Maximum hanger spacing: 10 ft (3 m).
2) Hanger rod diameter: 3/8 inch (9 mm).
c. Pipe size: 2-1/2 inches (65 mm) to 3 inches (75 mm):
1) Maximum hanger spacing: 10 ft (3 m).
2) Hanger rod diameter: 1/2 inch (13 mm).
d. Pipe size: 4 inches (100 mm) to 6 inches (150 mm):
1) Maximum hanger spacing: 10 ft (3 m).
2) Hanger rod diameter: 5/8 inch (15 mm).

U. Encase exterior cleanouts in concrete flush with grade.

V. Install floor cleanouts at elevation to accommodate finished floor.

W. Install water hammer arrestors complete with accessible isolation valve on hot and cold water supply piping to each group of fixtures.

X. All piping passing through walls, floors and ceilings that are fire rated must be adequately sealed. The Contractor has the responsibility of reviewing the Architectural Drawings and determining the location of all fire rated walls, partitions, ceilings and floors and to provide the required sealants at penetrations.

Y. Install each fixture with trap, easily removable for servicing and cleaning.

Z. Provide chrome plated rigid or flexible supplies to fixtures with stops, reducers, and esculcheons.

AA. Install components level and plumb.

AB. Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

AC. Review millwork shop drawings. Confirm location and size of fixtures and openings before rough-in and installation.

AD. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow.

AE. At the completion of the Work and prior to final acceptance, all parts of the Work installed under this specification shall be thoroughly cleaned. All equipment, fixtures, pipe, valves and fittings shall be cleaned of grease, metal cuttings and sludge which may have accumulated by operation of the system for testing or from other causes.

3.03 APPLICATION

A. Use grooved mechanical couplings and fasteners only in accessible locations.
B. Install unions downstream of valves and at equipment or apparatus connections.
C. Install brass male adapters each side of valves in copper piped system. Solder adapters to pipe.
D. Install ball or butterfly valves for shut-off and to isolate equipment, part of systems, or vertical risers.
E. Install ball or butterfly valves for throttling, bypass, or manual flow control services.
F. Provide spring loaded check valves on discharge of water pumps.
G. Provide gas ball valves in natural gas systems for shut-off service.
H. All plumbing fixtures shall be provided with water saving flow control devices to meet all Federal, State, and local water conservation laws.

3.04 INVERT ELEVATIONS

A. Drainage Piping: Establish invert elevations within 1/2 inch (10 mm) vertically of location indicated and slope to drain at minimum of 1/4 inch per foot (1:50) slope.

B. Drainage Piping: Verify invert elevations of all existing sewer lines to which new lines are to be connected prior to installation of any new work.

3.05 TESTING OF GAS PIPING

A. Air pressure test system to 75 PSI and maintain for a period of eight (8) hours with no pressure drop.

B. Purge line with nitrogen at junction with main line at gas meter to remove all air. Clear complete line by attaching a test pilot fixture at capped stub-in line at building location and let gas flow until test pilot ignites. CAUTION, failure to purge system may result in explosion within line when air-to-gas is at correct mixture.
C. Test and obtain approval on all underground piping before covering work. Provide written testing report to Architect.
3.06 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM
A. Prior to starting work, verify system is complete, flushed and clean.
B. Inject disinfectant, free chlorine in liquid, powder, tablet or gas form, throughout system to obtain 50 to 80 mg/L residual.
C. Bleed water from outlets to ensure distribution and test for disinfectant residual at minimum 15 percent of outlets.
D. Maintain disinfect

MECHANICAL LEGEND			
SINGLE	DOUBLE	ABBR.	DESCRIPTION
		o	RECTANGULAR DUCT (NEW)
		o	TRANSITION
		o	ROUND DUCT (NEW) (OR OVAL) Ø RD ○ OVAL
		o	RECTANGULAR DUCT (EXISTING)
		o	ROUND DUCT (EXISTING)
		o	45 DEG. TAP: USE AT BRANCH DUCTS ONLY
		o	DUCT SPLIT W/DAMPER: USE AT ELBOWS AND TEES: PROPORTION DUCT AREAS BY CFM'S
		o	CURVED ELBOW-MIN. RADIUS R: 1.5 WIDTH
		o	90 DEG. ELBOW WITH SINGLE RADIUS TURNING VANES
		o	FLEXIBLE DUCT CONNECTION
		VD	VOLUME DAMPER W/LOCKING QUADRANT
		o	SPIN-IN FLEX DUCT TAKE-OFF W/DAMPER
		S&Q	SPLITTER DAMPER WITH LOCKING QUADRANT
		SA	SUPPLY AIR
		EXH	EXHAUST AIR
		RA	RETURN AIR
		REL	RELIEF AIR
		OSA	OUTSIDE AIR
		o	NEW CONNECTION TO EXISTING
		TA	TRANSFER AIR
		ER	EXHAUST REGISTER
		ED	EXHAUST DUCT
		AFF	ABOVE FINISHED FLOOR
		BFF	BELOW FINISHED FLOOR
		NTS	NOT TO SCALE
		EH	EXHAUST HOOD
		T	THERMOSTAT
		F/S	COMBINATION FIRE/SMOKE DAMPER
		SD	SMOKE DUCT DETECTOR
		o	FIRE STAT SET AT 165'
		o	OUTSIDE AIR STAT
		o	SENSOR

MECHANICAL NOTES	
1.	FURNISH ALL LABOR, MATERIALS, TOOLS EQUIPMENT, FEES, PERMITS, CERTIFICATE OF INSPECTION, ETC., NECESSARY OR REASONABLE, REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR CONDITIONING WORK. THE WORK SHALL BE IN STRICT ACCORDANCE WITH ASHRAE GUIDE, AND ALL LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.
2.	DUCTS SHALL BE FABRICATED OF PRIME GALVANIZED LOCK FORMING QUALITY STEEL SHEETS, OR A GAUGE IN ACCORDANCE WITH THE FOLLOWING TABLE: <ul style="list-style-type: none"> DUCTS WITH LONGEST SIDE NOT MORE THAN 12" IN WIDTH.....26 GA DUCTS WITH LONGEST SIDE 13" TO 30" IN WIDTH.....24 GA DUCTS WITH LONGEST SIDE 31" TO 40" IN WIDTH.....22 GA DUCTS WITH LONGEST SIDE OVER 40".....20 GA
3.	PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE.
4.	DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS.
5.	PERFORM A TOTAL TEST AND BALANCE OF SYSTEM. TESTING COMPANY MUST BE CERTIFIED BY AABC OR NEBB. SUBMIT A CERTIFIED REPORT TO ARCH. 10 DAYS PRIOR TO C OF O WITH A COPY TO CITY INSPECTOR.
6.	ALL DUCTWORK TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "ASHRAE GUIDE AND SMACNA OR IMC (2012) STANDARDS". SEAL ALL DUCTWORK, LONGITUDINAL AND LATITUDINAL JOINTS WITH DP-1010 SEALANT (PER 2018 IECC).
7.	EXACT PLACEMENT OF DIFFUSERS AND REGISTERS TO BE COORDINATED WITH ARCHITECTURAL - REFLECTED CEILING PLAN.
8.	CONTRACTOR TO VERIFY LOCATION OF ALL AIR EQUIPMENT SO THAT NO INTERFERENCE ARE ENCOUNTERED WITH OTHER EQUIPMENT OR WITH STRUCTURAL ELEMENTS.
9.	MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED WITHOUT INTERFERENCE.
10.	CONTRACTOR AND ARCHITECT TO VERIFY T-STAT LOCATIONS.
11.	THERMOSTATS MUST BE LOCATED 48" ABOVE FINISHED FLOOR. (TO CENTERLINE OF THERMOSTAT) T-STATS SHALL BE 7 DAY PROGRAMMABLE WITH SET-BACK CAPABILITIES (PER 2018 IECC).
12.	MECHANICAL CONTRACTOR SHALL INSULATE ALL NEW SUPPLY AND RETURN AIR DUCTWORK LOCATED WITHIN AN ATTIC SPACE WITH MIN. R-6 INSULATION, ALL NEW SUPPLY AIR DUCTWORK LOCATED WITHIN A PLENUM SPACE WITH MIN. R-6 INSULATION AND/OR ANY DUCTWORK EXPOSED TO THE EXTERIOR WITH MIN. R-8 INSULATION (PER 2012 IECC). INSULATION NOT REQUIRED FOR SUPPLY/RETURN AIR DUCTWORK LOCATED WITHIN A PLENUM SPACE WHERE THE ENVELOPE INSULATION IS MIN. R-8 OR ANY EXHAUST DUCT.
13.	HVAC CONTRACTOR SHALL REPLACE ALL FILTERS UPON COMPLETION OF CONSTRUCTION. THIS INCLUDES FILTERS AT ALL NEW UNITS AND FILTERS AT ALL EXISTING UNITS AFFECTED BY CONSTRUCTION.

2018 IECC MECHANICAL COMPLIANCE NOTES:	
HVAC SYSTEM(S)	1. MINIMUM HEATPUMP EFFICIENCY 13 SEER.
	2. ALL HEAT PUMPS WITH SUPPLEMENTAL STRIP HEATERS MUST UTILIZE HEAT PUMP THERMOSTAT TO PREVENT STRIP HEATERS FROM ENERGIZING IF HEAT PUMP CAN ACCOMMODATE THE LOAD.
GENERAL REQUIREMENTS	1. ALL THERMOSTATS PROVIDED MUST BE FULLY PROGRAMMABLE WITH SETBACK OPERATIONS. 2. ALL EXHAUST SYSTEMS SHALL HAVE BAROMETRIC DAMPERS TO CLOSE WHEN NOT IN OPERATION. 3. OSA SYSTEMS IN EXCESS OF 3000 CFM SHALL AUTOMATICALLY CLOSE WHEN NOT IN OPERATION. 4. OSA SYSTEM DESIGNED TO COMPLY WITH MINIMUM OSA REQUIREMENTS PER CHAPTER 4 OF THE 2018 IMC. 5. INSULATE ALL SUPPLY AND RETURN DUCTS LOCATED WITHIN ATTIC SPACE WITH MINIMUM R-5 INSULATION, ALL SUPPLY DUCTS LOCATED WITHIN PLENUM SPACE WITH MINIMUM R-5 INSULATION AND/OR ANY DUCTWORK EXPOSED TO EXTERIOR TO BE INSULATED WITH MINIMUM R-8 INSULATION. EXHAUST DUCTS DO NOT REQUIRE ANY INSULATION. 6. ALL JOINTS SEAMS AND CONNECTIONS IN DUCTWORK SYSTEM TO BE SECURELY SEALED USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS, GASKETS, MASTICS OR TAPES. TAPES AND MASTICS MUST BE UL 181(A) OR (B) LISTED. 7. MECHANICAL FASTENERS AND SEALS, MASTICS OR GASKETS MUST BE USED WHEN CONNECTING DUCTS TO FANS OF OTHER AIR DISTRIBUTION EQUIPMENT. 8. OPERATION AND MAINTENANCE DOCUMENTATION TO BE PROVIDED TO OWNER AT COMPLETION OF PROJECT. OWNER MAY WITHHOLD FINAL PAYMENT PENDING RECEIPT OF DOCUMENTATION. 9. EACH SUPPLY AIR OUTLET, DIFFUSER OR VAV BOX SHALL HAVE ITS OWN BALANCING DEVICE.

UNIT	SENSIBLE LOAD	UNIT CAPACITY
FC/CU-1,2	72	76
FC/CU-3	43	46

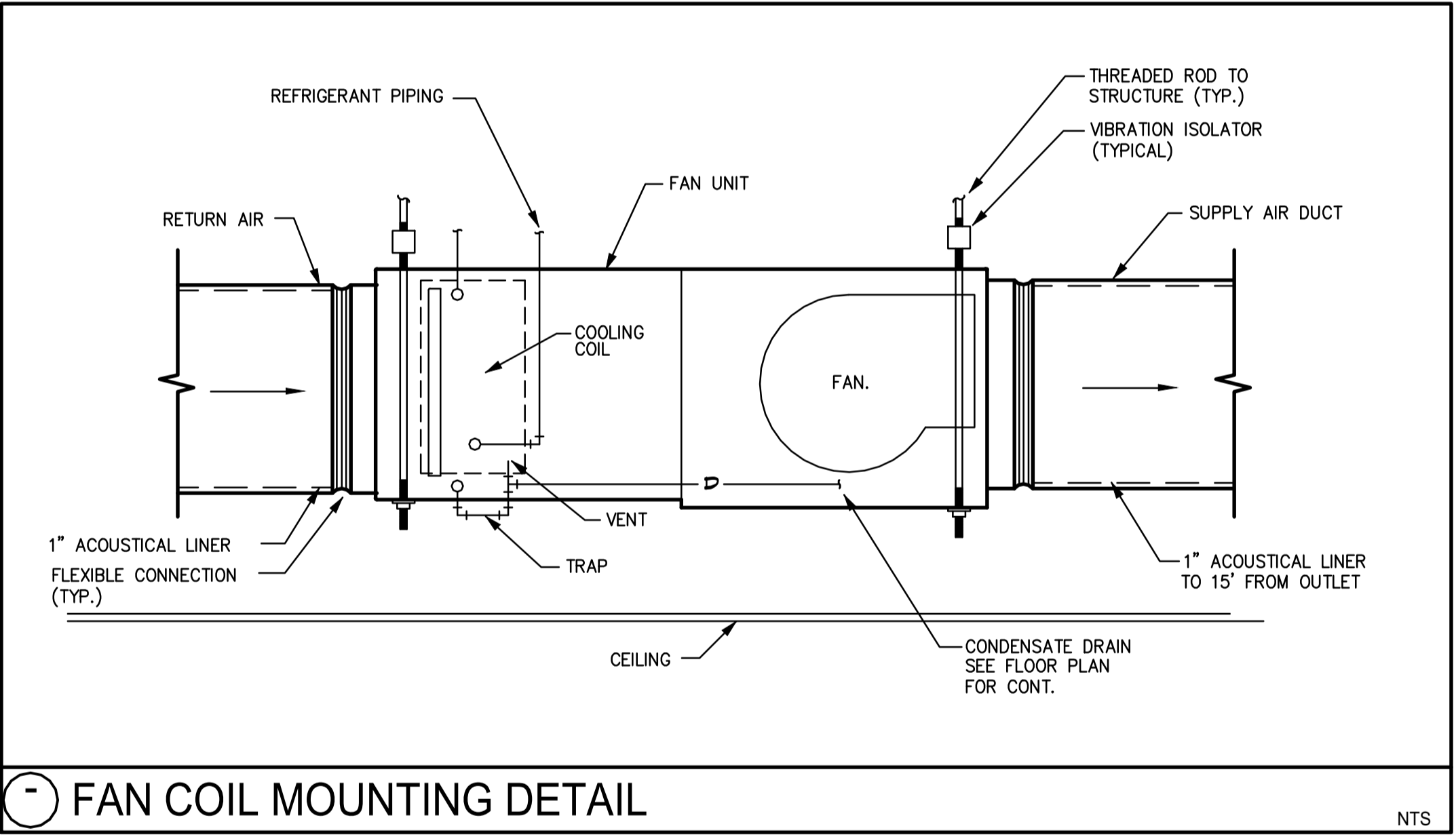
CITY OF PHOENIX Plan #: 1901783-LPSC Date: 03/12/19																					
SPLIT SYSTEM HEAT PUMP - 208/1 - HIGH EFFICIENCY (15+ SEER)																					
MARK	MANUF./ MODEL #		INDOOR UNIT					OUTDOOR UNIT			EER/ SEER	CYCLE	HEATING/COOLING CAPACITIES				UNIT WEIGHT LBS		REMARKS		
	INDOOR	OUTDOOR	TOTAL CFM	OA CFM	ESP IWG	HP	VOLT/Ø	MCA	MOCP	VOLT/Ø			ENT AIR	DB	WB	AMBIENT	DB	WB		TOTAL	SENS.
1,2	CARRIER FX4DNF049	CARRIER 25HBC548	1600	-	0.5	3/4	230/1	28.5	40	230/1	15.0/12.5	COOL	80	63	115	71	39.6	38.0	185	260	
												HEAT	70	-	30	-	35.9	-			
3	CARRIER FX4DNF061	CARRIER 25HBC560	1880	-	0.5	3/4	230/1	34.2	50	230/1	15.0/12.5	COOL	80	63	115	71	47.8	45.8	201	294	
												HEAT	70	-	30	-	43.2	-			

- PROVIDE WITH 1" FACTORY FILTER RACK AND 1" PLEATED 'FARR' 30/30 TYPE FILTERS.
- PROVIDE WITH 7 DAY PROGRAMMABLE THERMOSTAT, SUB-BASE AND LOCKING COVER.
- A 24V DUCT MOUNTED SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. FIRE ALARM SYSTEM WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. LOW VOLTAGE SHUTDOWN WIRING TO UNIT SHALL BE BY MECHANICAL CONTRACTOR. CEILING MOUNTED STATUS LED SHALL BE FURNISHED AND CONNECTED BY THE ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR DETAILS.

CITY OF PHOENIX CODES ADOPTED AT THIS TIME ARE THE 2018 IMC AND 2018 IECC.

EXHAUST FAN SCHEDULE										
MARK	MANUF./ MODEL #	TYPE	CFM	E.S.P.	HP	VOLT Ø	B.D.D.	DRIVE	OPER. WT.	REMARKS
1	GREENHECK SPA-50	CLG.	50	0.25	77W	120/1	YES	DIRECT	25	

GRILLE, REGISTER & DIFFUSER SCHEDULE									
MARK	MANUF./ MODEL #	DESCRIPTION	FRAME	STYLE	FINISH	MATERIAL	DAMPER	MAX. NC.	REMARKS
CD-1	PRICE SMD	DIFFUSER	DUCT MTD	LOUVER	WHITE	STEEL	OBD	30	
RG-1	PRICE 535	RETURN GRILLE	SURF.	LOUVER	WHITE	STEEL	-	30	
SR-1	PRICE 525DL	SIDE WALL SUPPLY GRILLE	DUCT MTD	BAR	WHITE	STEEL	OBD	30	SIZE PER PLAN



FAN COIL MOUNTING DETAIL NTS

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MECHANICAL SCHEDULES

Date 03/06/19

M001

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KIVA #18-1372
 SDEV #1800276
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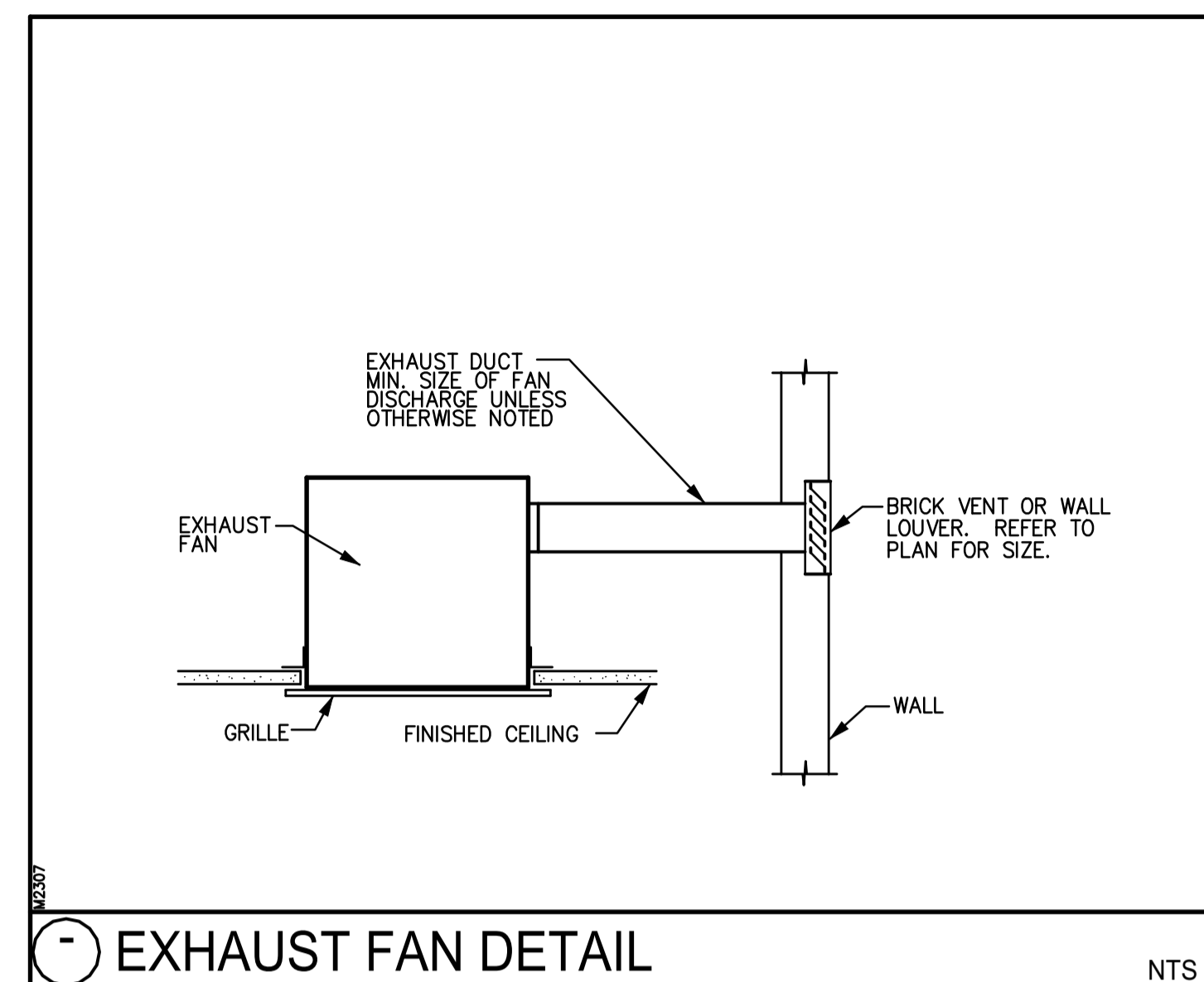
MECHANICAL SCHEDULES

Date 03/06/19

M002

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 SDEV #1800276
 PAPP #1806619
 PRLC
 QS Q16-36



COMcheck Software Version 4.1.1.0
Mechanical Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: Wanderist
 Location: Phoenix, Arizona
 Climate Zone: 2b
 Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)
 Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Mechanical Systems List

Quantity System Type & Description

2 FC/ICU 1,2 (Single Zone):
 Split System Heat Pump
 Heating Mode: Capacity = 36 kBtu/h,
 Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 38 kBtu/h,
 Proposed Efficiency = 15.00 SEER, Required Efficiency = 14.00 SEER
 Fan System: None

1 FC/ICU 3 (Single Zone):
 Split System Heat Pump
 Heating Mode: Capacity = 43 kBtu/h,
 Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF
 Cooling Mode: Capacity = 46 kBtu/h,
 Proposed Efficiency = 15.00 SEER, Required Efficiency = 14.00 SEER
 Fan System: None

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Robert Harris Name - Title _____ Signature _____ Date 03-04-2019

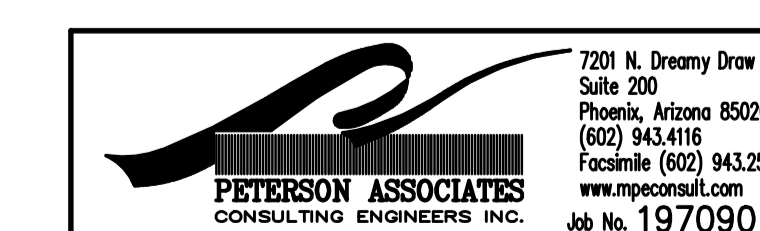
Project Title: Wanderist Report date: 03/04/19
 Data filename: W:\Large\2019\197090 Wanderist Building\ComCheck\mech.cck Page 1 of 10

OUTSIDE AIR CALCULATION (PER 2018 IMC, TABLE 403.3)

ZONE #	OCCUPANCY CLASSIFICATION	OCCUPANT DENSITY #/1,000 FT ²	SYSTEM #	# OF FIXTURES	AREA (A _s)	PRIMARY AIR FLOW (V _{pr})	OCCUPANTS (P _s)	OSA CFM/FT ² (R _a)	OSA CFM/PERSON (R _p)	EXHAUST RATE CFM/FT ²	EXHAUST RATE PER/FIXTURE	O.S.A. REQUIRED (V _{oz})	EXHAUST REQUIRED	TOTAL O.S.A. & EXH. MAKEUP REQUIRED	Ez = .8 Ez = .8		ZONE OUTDOOR AIR FLOW		PRIMARY OUTDOOR AIR FRACTION (Z _p)	SYSTEM VENTILATION EFFICIENCY (E _v)	UNCORRECTED OUTDOOR AIR INTAKE (V _{oa})	OUTDOOR AIR INTAKE FLOW RATE (V _{oi})	OUTDOOR AIR INTAKE FLOW RATE (V _{oi}) + EXHAUST MAKEUP AIR		
															COOLING (V _{oc})	HEATING (V _{oh})	OUTDOOR AIR FRACTION (COOLING)	OUTDOOR AIR FRACTION (HEATING)							
1	Corridors	0	1		115 FT ²	200 CFM	0 People	0.06	0	0	0	7	0	7	9	9	4.50%	4.50%	4.50%	1	126 CFM	126 CFM	126 CFM		
2	Office	5	1		126 FT ²	200 CFM	1 People	0.06	5	0	0	13	0	13	16	16	8.00%	8.00%	8.00%	1					
3	Warehouses	0	1		1,340 FT ²	1,600 CFM	0 People	0.06	0	0	0	80	0	80	101	101	6.31%	6.31%	6.31%	1					
Balance FC-3 to 130 cfm																									
														CFM O.S.A. REQUIRED											
														CFM O.S.A. PROVIDED		126		130							

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RETAIL SALES
 15 PEOPLE PER 1000 SQ.FT. AT 7.5 CFM PER SQ. FT. PLUS
 .12 CFM PER SQ.FT.
 = 15 X 1.8 + .12 X 1800
 = 27 + 216
 = 243 CFM
 E2 = .8
 = 243/.8
 = 304 CFM
 BALANCE FC-1 AND 2 EACH TO 155 CFM
 = 310 CFM PROVIDED.

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MECHANICAL FLOOR PLAN

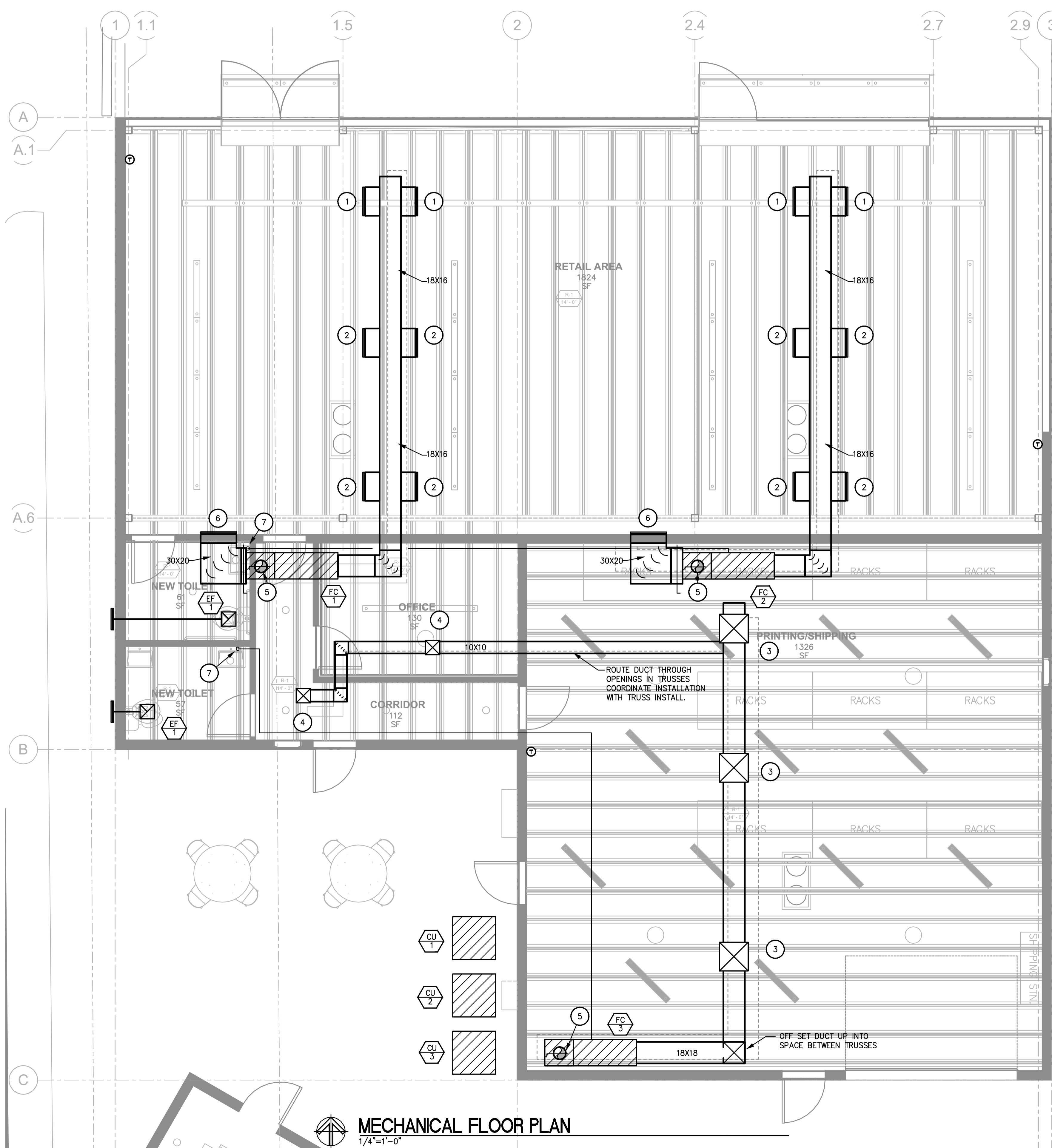
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M200

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 SDEV #1800276
 PAPP #1806619
 PRLC
 QS Q16-36

- KEY NOTES:**
- SR-1 24X8
400 CFM
 - SR-1 24X8
200 CFM
 - CD-1 12X12
530 CFM
 - CD-1 10X10
200 CFM
 - 8" OSA DUCT WITH BALANCE DAMPER
UP TO INTAKE HOOD.
 - RG-1 30X20
 - 3/4" CD DOWN TO LAV. TAIL PIECE



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MECHANICAL FLOOR SPECIFICATIONS

Date 03/06/19

M300

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SECTION 23 0010
 MECHANICAL SHEET (T.I. PACKAGES/SPLITS)

PART 1 GENERAL

1.01 SCOPE OF WORK

A. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all. The Performance by the Contractor shall be required only to the extent consistent with the Contract Documents as reasonably inferable from them as necessary to produce the intended results.

1. The Contractor shall refer to all project drawings and specifications prior to submission of bid and include monies to provide a complete and functioning system. Reference drawings include, but are not necessarily limited to, Civil, Architectural, Structural, Electrical, Plumbing and Fire Protection.

2. Work Included: Unless specified otherwise, provide all labor, materials and equipment necessary for completely finished and operational mechanical systems. Provide all minor incidental items such as offsets, fittings, etc. required as part of the Work even though not specified or indicated. All materials used shall be of domestic manufacturers. No foreign material will be allowed.

3. Description of Systems: The work includes but is not limited to:
 a. Heating, Ventilating and Air Conditioning System(s).

4. Drawings are diagrammatic. Refer to Civil, Electrical, Plumbing, Fire Protection, Architectural and Structural Drawings and specifications for information on equipment furnished and installed by others which may conflict with rough-in or equipment locations. Coordinate Mechanical system components with all other Disciplines' Work. No adjustment in contract price will be made for failure to review or coordinate work prior to fabrication and/or installation.

5. Inconsistencies. In the case of any inconsistency between drawings and specifications or within either document not clarified by addendum, the better quality or greater quantity of work shall be provided in accordance with the Engineer's interpretation.

1.02 INSPECTION AND TESTS

A. Furnish Architect with certificate of inspection and approval by local authorities and required test reports prior to final acceptance of the project by the Architect. All work must be inspected and tested per local code requirements.

1.03 PROJECT COORDINATION

A. All Contractors shall be responsible for coordinating Work with other trades and for cutting and re-finishing of existing walls, floors, solid and suspended ceilings, etc., where required by Work shown and noted herein. Install all Work to clear new and existing architectural and structural members. Items such as pipe, fittings, etc., shall not be installed in conflict with equipment. Coordinate all cutting and patching with the General Contractor. Subcontractor shall be responsible for all cutting and patching of his Work. Obtain written permission of Architect before proceeding with any cutting or patching of structural systems.

B. Any discrepancies which may affect the Contractor's bid shall be brought to the attention of the Engineer and Architect for direction.

C. During construction, coordinate use of site and facilities and work sequence to meet the project requirements.

D. Contractor shall coordinate with Electrical Subcontractor to insure proper electrical voltage requirements for all mechanical equipment.

E. Coordinate exact location of ceiling outlets with lighting plan and Architectural Drawings.

Mechanical Sheet Specs / Mechanical Sheet Specs 23 0010 - 1 MECHANICAL SHEET (T.I. PACKAGES/SPLITS)

1.04 FIELD VERIFICATION

A. Contractor shall visit the job site and familiarize himself with all existing conditions which may affect his bid. All existing equipment, ductwork, air distribution devices, thermostats, controls and piping are shown on the drawings for reference only. No allowances will be made after the bid for existing conditions or the Contractor's failure to verify existing conditions.

B. The following items shall be verified:
 1. Exact placement, size, capacity, manufacturer and condition of all existing HVAC equipment within the scope of work whether specifically shown on the drawings or not.
 2. Size and location of all existing ductwork.
 3. Structural members which may be in conflict with new work.
 4. Size and location of all existing grilles, registers, louvers and diffusers.
 5. Type and location of all thermostatic control devices.
 6. Size and location of all existing hydronic piping, valves and controls.

C. Any discrepancies which may affect the Contractors bid shall be brought to the attention of the Engineer and Architect for direction.

1.05 SUBMITTALS

A. See Architectural Administrative Requirements, for submittal procedures.

B. Product Data: Provide shop drawings and manufacturers' product data and catalog information on the following:
 1. All HVAC equipment, including roof curbs, controls, etc.
 2. Air distribution systems, including ductwork, fittings, insulation, fire dampers, diffusers, grilles, balancing dampers, sound attenuators, etc.

C. Project Record Documents: Provide two (2) sets of Record Documents and two (2) bound sets of all operation manuals, diagrams, service contracts, guarantees, etc. for Owner's use. Record actual locations of all ductwork, piping, valves or equipment and incorporate into the Record Documents to show the final "Installed" conditions.

D. Submit only those manufacturers listed on the drawings or in the specific section unless prior approval was obtained.

E. Submit shop drawings and product data grouped to include complete submittals of related systems, products, and accessories in a single submittal. Partial submittals will not be reviewed by the Engineer.

F. Mark dimensions and values in units to match those specified.

G. Clearly identify specific components on multi-item equipment or data sheets.

H. The Installing Contractor shall review all submittals for compliance with plans and specifications. The contractor shall stamp each item in the submittal indicating that the review process has been completed.

I. Any discrepancies in the submittals from the requirements of the plans and specifications shall be noted by the Installing Contractor. If major discrepancies, errors, or product omissions are found, the Installing Contractor shall correct the submittals before forwarding for review by the Engineer.

1.06 REQUEST FOR INFORMATION

A. Requests for information are to be submitted to the Architect/Engineer by the General Contractor.

B. Sufficient back-up information shall be included to describe the situation. Where possible a suggested solution shall be included to facilitate response time.

1.07 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.

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B. Installer Qualifications: Company specializing in performing the work of this section with minimum five years of experience.

C. Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.

1.08 REGULATORY REQUIREMENTS

A. All materials, equipment and installation must comply with all applicable laws, codes, rules, and regulations, required by City, County and State, as well as Federal requirements.

1.09 WARRANTY

A. Contractor shall guarantee all materials, equipment and workmanship from defect and shall replace or repair, without additional cost to the Owner, all defective material, equipment and workmanship for a period of one year after Date of Substantial Completion.

B. Submit manufacturers' warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Manufacturer's names and catalog numbers are scheduled or specified for the purpose of establishing standard of design, quality, appearance, performance and serviceability, and not to limit competition. Scheduled products (as may be modified by detailed specifications) are those selected as the basis for system design with respect to physical size and space arrangements, required capacity and performance characteristics, and the product quality intended.

B. The Drawings indicate specified products physically arranged in the spaces, as cataloged by specific manufacturers, generally as listed in the Equipment Schedules.

C. Listed "Acceptable Manufacturers" are those considered capable of manufacturing products conforming to detailed Specifications, as as such, are invited to compete on an equal basis provided the offering is comparable in every respect to scheduled or specified products and actually conforms to the detailed Specifications and Schedule requirements. Listing herein as "acceptable manufacturers" does not imply "accepted", "approved", "prior approval", or any other such connotation. All product offerings must be submitted for approval after Contract award.

D. Acceptable Manufacturers:
 1. Unitary Packaged or Split System Equipment: Trane, Carrier, York
 2. Evaporative Coolers: United Metal Products, Mastercool
 3. Exhaust and Supply Fans: Greenheck, Cook, Twin City
 4. Grilles, Registers and Diffusers: Titus, Krueger, Price

E. Substitutions of materials or products shown herein shall be at the Owner's, Architect's or Engineer's written approval only and must be made in accordance with the Architect's requirements.

2.02 FLAME SPREAD AND SMOKE DEVELOPED PROPERTIES OF MATERIALS

A. Material and adhesives used throughout the mechanical systems for insulation, acoustical lining, filters, ducts, flexible connections, and jackets or coverings regardless of kind, or for piping or continued combustion and with a smoke developed rating not higher than 50. If such materials are to be applied with adhesives, they shall be tested as applied with such adhesives, or the adhesives used shall have a flame spread rating not over 25 and a smoke developed rating not higher than 50.

B. "Flame Spread Rating" and "Smoke Developed Rating" shall be as determined by the "Method of Test of Surface Burning Characteristics of Building Materials," NFPA No. 255, ASTM E84, Underwriters Laboratories, Inc., Standard". Such materials are listed in the Underwriters Laboratories, Inc. "Building Materials List" under the heading "Hazard Classifications (Fire)".

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2.03 IDENTIFICATION OF EQUIPMENT

A. Identify mechanical equipment with a nameplate bearing the equipment name, number and area served, 1/16-inch thick, 1 1/2-inch white laminated bakelite with engraved black letters and beveled edges, 1/2-inch (single line) or 7/8-inch (double line) high, permanently mounted on the equipment in a conspicuous place with screws.

2.04 ELECTRIC MOTORS

A. Shall conform to the requirements of IEEE, NEMA, and shall have voltage, phase, frequency and service as scheduled.

B. Each item of motor driven equipment shall be furnished complete with the motors, drives and control equipment, including remote pilot devices as required to perform the specific function for which it is intended.

C. Motors shall be sleeve or ball bearing type selected for quiet operation, shall be manufactured for general purpose duty, with each bearing accessible for lubrication, and designed for the load imposed by the drive.

D. Motors 1/2 horsepower and larger shall have bearings with pressure grease lubrication.

E. Motors connected to drive equipment by belt shall be furnished with adjustable slide rail bases except for fractional horsepower motors which shall have slotted bases. Motor leads shall be permanently identified and supplied with connectors.

F. Each motor shall be suitable for the brake horsepower of the driven unit, rated with 1.15 minimum service factor, with the temperature rise not to exceed NEMA standards and shall be capable of withstanding momentary overloads of 25 percent without injurious overheating.

2.05 MOTOR STARTERS

A. Except where otherwise specified or scheduled, each starter shall be furnished by the supplier who furnishes the equipment it controls.

B. Provide a manual or magnetic starter for each motor. They shall be as recommended by the equipment manufacturer.

2.06 ACCESS DOORS

A. Furnish, for installation under appropriate Section of the Work, access doors at each point required to provide access to concealed valves, dampers, damper operators, and other devices requiring operation, adjustment, or maintenance.

B. Access doors shall be 16 gage steel, with mounting straps, concealed hangers, and screwdriver locks, designed for the doors to open 180 degrees, minimum.

C. Access doors installed in fire walls or partitions shall be UL labeled to maintain the fire rating of the wall or partition.

2.07 SLEEVES, INSERTS, ANCHORS AND SUPPORTS

A. Provide in concrete, carpentry or masonry construction, hangers, sleeves, expansion bolts, inserts, supporting steel, or other fixtures necessary for the support of pipe, equipment and devices furnished under each Section of the Specifications.

B. Provide each pipe, conduit, or duct passing through fire, smoke or sound control walls, floors, ceilings or partitions with sleeves having internal dimension approximately 1-inch larger than the outside dimension (including insulation) of pipes, conduits or ducts.

C. Sleeves (when required) through interior partitions and floors shall be no less than 22 gage galvanized steel, set flush with the finished surfaces.

2.08 FIRESTOPPING

A. Seal annular spaces between sleeves and penetrating materials in fire rated floors, ceilings, and walls with fireproof and waterproof silicone elastomer applied in accordance with the manufacturer's published instructions. Multiple penetrations shall be sealed with silicone caulking. Seal material shall be UL classified for use in fire rated penetration seals, and shall be

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 DONALD ANDREWS CERTIFICATE #45

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 - PLANS ARE COMPLETE,
 - THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.



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-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19

Owner JONATHAN PITT
Proj. Nam WANDERIST OFFICE & RETAIL



Date 03/06/19

MECHANICAL FLOOR SPECIFICATIONS

Scale AS SHOWN

M301

KIVA #18-1372
SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36

applied in the manufacturer's recommended thickness for the fire rating of the penetrated structure in accordance with ASTM E-814 requirements.

2.09 FLASHINGS

A. Furnish weatherproof flashings for mechanical system related openings through the roof for installation under roofing specification.

B. Furnish roof flashing for round and rectangular openings, pipes, vents machinery, devices, or ducts. The flashings shall be constructed to terminate not less than 12-inches above the roof. Provide suitable counterflashing constructed from the same material as the flashing.

C. Furnish flashings for mechanical curbs, and furnish and install counterflashing at each.

2.10 THERMOSTATS

A. Electric Room Thermostats:

- Type: NEMA DC 3, 24 volts, with setback/setup temperature control.
 - Automatic switching from heating to cooling.
 - Seven day programmable with set-back capabilities per current IECC.
 - Locking cover.
 - Preferential rate control and short cycle protection.
- Service: cooling and heating.

B. Thermostats must be located 48" above finished floor to centerline of device. Verify exact location with Architect.

2.11 DUCTWORK

A. Fabricate and support in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, International Mechanical Code and as indicated. Provide duct material, gages, reinforcing, and seal all longitudinal and transverse joints with DP-1010, for operating pressures of 2.0' static pressure and below.

B. Each duct system shall be complete with all required ductwork fittings, turning vanes, splitter dampers and supports.

C. Galvanized Steel Ducts: Hot-dipped galvanized steel sheet, ASTM A 653/A 653M FS Type B, with G90 coating.

D. Joint Sealers and Sealants: Non-hardening, water resistant, mildew and mold resistant.

- Type: Heavy mastic or liquid used alone or with tape, suitable for joint configuration and compatible with substrates, and recommended by manufacturer for pressure class of ducts.
- Surface Burning Characteristics: Flame spread of zero, smoke developed of zero, when tested in accordance with ASTM E 84.

E. Crossbreak all sides of all ducts. Ductwork shall have no objectionable noise, and Contractor shall provide any additional stiffeners required.

F. All longitudinal seams shall be Pittsburgh lock seam, hammered flat, with all transverse joints sealed airtight.

G. Construct T's bends, and elbows with radius of not less than 1-1/2 times width of duct on centerline. Where not possible and where rectangular elbows must be used, provide air foil turning vanes of perforated metal with glass fiber insulation.

H. All round duct branch takeoffs shall be provided with spin-in type fittings with balancing damper with locking quadrants.

I. Ductwork shall conform to dimensions on the drawings unless locations of structural members prohibit. In case of changes in dimensions, cross sectional areas shall be maintained. Attach hangers to the top cord of trusses.

J. All duct sizes shown on the drawings are clear inside dimension. Increase size of duct as required to accommodate duct liner.

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K. All ducts shall be substantially supported with hangers to the structure or otherwise depending on location conditions. Hangers shall conform to all SMACNA and IMC requirements.

L. Flexible Ducts: UL 181, Class 1, aluminum laminate and polyester film with latex adhesive supported by helically wound spring steel wire.

- Insulation: Fiberglass insulation with polyethylene vapor barrier film. Minimum R-5.
- Pressure Rating: 10 inches WVG (2.50 kPa) positive and 1.0 inches WG (250 Pa) negative.
- Maximum Velocity: 4000 fpm (20.3 m/sec).
- Temperature Range: -20 degrees F to 210 degrees F (-28 degrees C to 99 degrees C).

M. Insulated Flexible Ducts shall not exceed 8'-0" in length. Provide rigid duct takeoffs from the main duct (length as required) to accommodate maximum flexible duct length.

N. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible; maximum 30 degrees divergence upstream of equipment and 45 degrees convergence downstream.

O. Fabricate continuously welded round and oval duct fittings two gages heavier than duct gages indicated in SMACNA Standard. Joints shall be minimum 4 inch cemented slip joint, brazed or electric welded. Prime coat welded joints.

P. Provide standard 45 degree lateral wye takeoffs unless otherwise indicated where 90 degree conical tee connections may be used.

Q. Where ducts are connected to exterior wall louvers and duct outlet is smaller than louver frame, provide blank-out panels sealing louver area around duct. Use same material as duct, painted black on exterior side, seal to louver frame and duct.

2.12 DUCTWORK PRESSURE CLASS

A. Low Pressure Supply (Heating and Cooling Systems): 2 inch w.g. (500 Pa) pressure class, galvanized steel.

B. Medium and High Pressure Supply: 6 inch w.g. (1500 Pa) pressure class, galvanized steel.

C. Return and Relief: 2 inch w.g. (500 Pa) pressure class, galvanized steel.

D. General Exhaust: 1 inch w.g. (250 Pa) pressure class, galvanized steel.

E. Outside Air Intake: 1 inch w.g. (250 Pa) pressure class, galvanized steel.

2.13 DUCTWORK INSULATION

A. Glass Fiber, Flexible

- Insulation: ASTM C 553; flexible, noncombustible blanket.
- Vapor Barrier Jacket:
 - Kraft paper with glass fiber yarn and bonded to aluminized film.
 - Moisture Vapor Permeability: when tested in accordance with
 - ASTM E 96.
 - Secure with Pressure sensitive tape.

B. Duct Liner

- Insulation: Incombustible glass fiber complying with ASTM C 1071; flexible blanket; impregnated surface and edges coated with poly vinyl acetate polymer or acrylic polymer shown to be fungus and bacteria resistant by testing to ASTM G 21.
- Liner Fasteners: Galvanized steel, self-adhesive pad, impact applied; or welded with integral; or press-on head.

C. Duct Insulation Schedules

- Exhaust Duct: None
- Outside Air: None
- Supply Air (Round): 2 inch thick Glass Fiber, Flexible (Minimum R-6)
- Supply Air (Rectangular): 1-1/2 inch thick Duct Liner (Minimum R-6)
- Return Air (Round): 2 inch thick Glass Fiber, Flexible (Minimum R-6)
- Return Air (Rectangular): 1-1/2 inch thick Duct Liner (Minimum R-6)

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7. Outdoor Ductwork: 2 inch thick Duct Liner (Minimum R-8)

8. Evaporative Cooling: None

2.14 COMBINATION FIRE AND SMOKE DAMPERS

A. Fabricate in accordance with NFPA 90A, UL 555, UL 555S, and as indicated.

B. Provide factory fabricated dynamic fire damper with sleeve, and collar, and frame for each damper.

C. Multiple Blade Dampers: Fabricate with 16 gage galvanized steel frame and blades, oil-impregnated bronze or stainless steel sleeve bearings and plated steel axes, stainless steel jamb sealed, 1/8 x 1/2 inch plated steel concealed linkage, stainless steel closure spring, blade stops, and lock, and 1/2 inch actuator shaft.

D. Operators: UL Listed and labeled spring return electric type suitable for 120 volts, single phase, 60 Hz. Provide end switches to indicate damper position. Locate damper operator on interior exterior of duct and link to damper operating shaft. Stand alone dampers to be provided with integral smoke detector control.

E. Electro Thermal Link: Fusible link melting at 165 degrees F (74 degrees C); 120 volts, single phase, 60 Hz; UL Listed and labeled.

F. Interlock combination fire-smoke damper operator with duct smoke detector or zone smoke detector. Coordinate electrical connection with Electrical Contractor.

2.15 GRILLES, REGISTERS AND DIFFUSERS

A. Furnish and install all grilles, registers, ceiling diffusers and door grilles where indicated. They shall be of size and model called for on the drawings.

B. All grilles, registers, and ceiling diffusers must be set flush and true to wall or ceiling to prevent air leakage around edges. All units shall be provided with neoprene gasketing around the inside of the frame.

C. Check location of outlets and inlets and make necessary adjustments in position to conform with architectural features, symmetry, and lighting arrangement.

D. All units shall be factory finished, of color selected by the Architect, or as otherwise indicated.

E. Paint all ductwork, turning vanes, insulation, etc., that is visible through grilles, registers, or ceiling diffusers flat black.

2.16 DISPOSABLE EXTENDED AREA FILTERS

A. Media: UL 900 Class 1, pleated, lofted, non-woven, reinforced cotton fabric; supported by corrugated aluminum separators.

- Frame: Non-flammable.
- Nominal thickness: 1 inch (25 mm).

B. Minimum Efficiency Reporting Value (MERV): 8, when tested in accordance with ASHRAE 52.2.

C. Contractor shall replace all filters upon completion of construction. This shall include all new units and filters at all existing units affected by construction.

2.17 CONDENSATE DRAIN PIPING MATERIAL

A. Copper tubing - ASTM B88, Type M, hard drawn.

B. Fitting: AMME B16.18, cast bronze, of ASME B16.22, wrought copper and bronze.

C. Joints: ASTM B52, Grad 95TA.

D. Insulation: 1/2" thick Armaflex insulation.

2.18 REFRIGERANT PIPING MATERIAL

A. Copper Tube: ASTM B 280, H58 hard drawn or O60 soft annealed.

- Fittings: ASME B16.22 wrought copper.
- Joints: Braze, AWS A5.8 BcUP silver/phosphorus/copper alloy.

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B. Copper Tube to 7/8 inch (22 mm) OD: ASTM B 88 (ASTM B 88M), Type K (A), annealed.

- Fittings: ASME B16.26 cast copper.
- Joints: Flared.

C. Insulation: 3/4" thick Armaflex insulation. Provide aluminum jacket on exterior piping.

D. Provide pipe hangers and supports in accordance with ASME B31.5 unless indicated otherwise.

E. Flexible Connectors: Utilize at or near compressors where piping configuration does not absorb vibration.

PART 3 EXECUTION

3.01 PROTECTION OF EQUIPMENT

A. Protect equipment from physical damage and deterioration after it is delivered to the Project, and during the installation period prior to Owner acceptance.

B. The equipment shall be kept clean. Motors and electrical devices shall be covered with suitable materials to prevent dirt or dust accumulation within equipment. Machinery and devices shall be properly oiled and maintained to prevent rusting and deterioration.

C. Repair scratches, mars, or paint deterioration.

3.02 EQUIPMENT SPACE

A. The Drawings indicate specified products physically arranged in the spaces, as cataloged by specific manufacturers, generally as listed in the Equipment Schedules.

B. Prepare Shop Drawings indicating the exact physical space requirements for equipment and servicing of equipment actually purchased for each item of equipment involved. NOTE: Physical space required for equipment servicing must be shown on Shop Drawings.

C. Drawings show pipe and ductwork diagrammatically.

D. Adhere to Drawings as closely as possible in layout of work.

E. Install piping and ductwork in furred spaces wherever possible. Run exposed piping and ductwork parallel to or at right angles to building walls.

F. Conform to ceiling heights established on architectural construction drawings.

3.03 HVAC DUCTWORK INSTALLATION

A. Install accessories in accordance with manufacturer's instructions, NFPA 90A, and follow SMACNA HVAC Duct Construction Standards - Metal and Flexible. Contractor shall verify that ductwork will fit where indicated without interference prior to installation.

B. All exhaust systems shall have barometric dampers to close when not in operation.

C. Provide duct access doors for inspection and cleaning before and after filters, coils, fans, automatic dampers, at fire dampers, combination fire and smoke dampers, and elsewhere as indicated. Provide minimum 8 x 8 inch (200 x 200 mm) size for hand access, size for shoulder access, and as indicated. Provide 4 x 4 inch (100 x 100 mm) for balancing dampers only. Review locations prior to fabrication.

D. Provide duct test holes where indicated and required for testing and balancing purposes.

E. Provide fire dampers, combination fire and smoke dampers, and smoke dampers at locations indicated, where ducts and outlets pass through fire rated components, and where required by authorities having jurisdiction. Install with required perimeter mounting angles, sleeves, breakaway duct connections, corrosion resistant springs, bearings, bushings and hinges.

F. Install smoke dampers and combination smoke and fire dampers in accordance with NFPA 92A.

G. At fans and motorized equipment associated with ducts, provide flexible duct connections immediately adjacent to the equipment.

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H. At equipment supported by vibration isolators, provide flexible duct connections immediately adjacent to the equipment.

I. Provide balancing dampers at points on supply, return, and exhaust systems where branches are taken from larger ducts as required for air balancing. Install minimum 2 duct widths from duct take-off.

J. Use splitter dampers only where indicated.

K. Provide balancing dampers on duct take-off to diffusers, grilles, and registers, regardless of whether dampers are specified as part of the diffuser, grille, or register assembly.

L. Each supply air outlet, diffuser, register or VAV box shall have it's own balancing device.

M. Flexible Ducts: Connect to metal ducts with draw bands.

3.04 DUCTWORK INSULATION INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install in accordance with NAIMA National Insulation Standards.

C. Insulated duct conveying air below ambient temperature:

- Provide insulation with vapor barrier jackets.
- Finish with tape and vapor barrier jackets.
- Continue insulation through walls, sleeves, hangers, and other duct penetrations.
- Insulate entire system including fittings, joints, flanges, fire dampers, flexible connections, and expansion joints.

D. External Duct Insulation Application:

- Secure insulation with vapor barrier with wires and seal jacket joints with vapor barrier adhesive or tape to match jacket.
- Secure insulation without vapor barrier with staples, tape, or wires.
- Install without sag on underside of duct. Use adhesive or mechanical fasteners where necessary to prevent sagging. Lift duct off trapeze hangers and insert spacers.
- Seal vapor barrier penetrations by mechanical fasteners with vapor barrier adhesive.
- Stop and point insulation around access doors and damper operators to allow operation without disturbing wrapping.

E. Duct and Plenum; Liner Application:

- Adhere insulation with adhesive for 100 percent coverage.
- Secure insulation with mechanical liner fasteners. Refer to SMACNA HVAC Duct Construction Standards - Metal and Flexible for spacing.
- Seal and smooth joints. Seal and coat transverse joints.
- Seal liner surface penetrations with adhesive.
- Duct dimensions indicated are net inside dimensions required for air flow. Increase duct size to allow for insulation thickness.

3.05 REFRIGERANT PIPING INSTALLATION

A. Install refrigeration specialties in accordance with manufacturer's instructions.

B. Route piping in orderly manner, with plumbing parallel to building structure, and maintain gradient.

C. Install piping to conserve building space and avoid interference with use of space.

D. Group piping whenever practical at common elevations and locations. Slope piping one percent in direction of oil return.

E. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.

F. Pipe Hangers and Supports:

- Install in accordance with ASME B31.5.
- Support horizontal piping as scheduled.

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MECHANICAL FLOOR SPECIFICATIONS

Date 03/06/19

M302

Scale AS SHOWN

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 PRLC
 QS Q16-36

<p>3. Install hangers to provide minimum 1/2 inch (13 mm) space between finished covering and adjacent work.</p> <p>4. Place hangers within 12 inches (300 mm) of each horizontal elbow.</p> <p>5. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.</p> <p>6. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.</p> <p>7. Provide copper plated hangers and supports for copper piping.</p> <p>G. Arrange piping to return oil to compressor. Provide traps and loops in piping, and provide double risers as required. Slope horizontal piping 0.40 percent in direction of flow.</p> <p>H. Provide clearance for installation of insulation and access to valves and fittings.</p> <p>I. Provide access to concealed valves and fittings.</p> <p>J. Flood piping system with nitrogen when brazing.</p> <p>K. Where pipe support members are welded to structural building frame, brush clean, and apply one coat of zinc rich primer to welding.</p> <p>L. Follow ASHRAE Std 15 procedures for charging and purging of systems and for disposal of refrigerant.</p> <p>M. Provide replaceable cartridge filter-driers, with isolation valves and valved bypass.</p> <p>N. Locate expansion valve sensing bulb immediately downstream of evaporator on suction line.</p> <p>O. Provide external equalizer piping on expansion valves with refrigerant distributor connected to evaporator.</p> <p>P. Install flexible connectors at right angles to axial movement of compressor, parallel to crankshaft.</p> <p>Q. Fully charge completed system with refrigerant after testing.</p> <p>R. Provide electrical connection to solenoid valves.</p> <p>3.06 CUTTING AND PATCHING</p> <p>A. Assume costs and responsibility for cutting and patching required to complete the installation.</p> <p>B. Surfaces shall be patched to the condition of the adjacent surfaces.</p> <p>3.07 PAINTING AND FINISHING AND CLEANING</p> <p>A. Finish painting (other than factory applied) of mechanical equipment, and its associated piping and ductwork, is scheduled under other Sections. Provide touchup painting of prefinished mechanical products.</p> <p>B. Surfaces shall be left clean, debris shall be removed, and equipment shall be furnished in prime coat finish ready for finish coats.</p> <p>1. Piping, ductwork and equipment - Clean exterior of piping, ductwork and equipment, removing rust, plaster and dirt by wire brushing. Remove grease, oil, and similar materials by wiping with clean rags and suitable solvents.</p> <p>2. Motors, pumps and other items with factory finish - Remove grease and oil and leave surfaces clean and polished.</p> <p>3.08 TESTING, ADJUSTING AND BALANCING</p> <p>A. Perform total system balance in accordance with the following:</p> <p>1. AABC MN-1, AABC National Standards for Total System Balance.</p> <p>B. Begin work after completion of systems to be tested, adjusted, or balanced and complete work prior to Substantial Completion of the project.</p> <p>C. Where HVAC systems and/or components interface with life safety systems, including fire and smoke detection, alarm, and control, coordinate scheduling and testing and inspection procedures with the authorities having jurisdiction.</p> <p>D. TAB Agency Qualifications:</p> <p>Mechanical Sheet Specs / Mechanical Sheet Specs 23 0010 - 10 MECHANICAL SHEET (T.I. PACKAGES/SPLITS)</p>	<p>1. Company specializing in the testing, adjusting, and balancing of systems specified in this section.</p> <p>2. Having minimum of three years experience.</p> <p>3. Certified by the following:</p> <p>a. AABC, Associated Air Balance Council: www.aabchq.com; upon completion submit AABC National Performance Guaranty.</p> <p>E. TAB Supervisor and Technician Qualifications: Certified by same organization as TAB agency.</p> <p>F. Pre-Qualified TAB Agencies:</p> <p>1. Southwest Testing and Balancing LLC</p> <p>2. Arizona Air Balance Company</p> <p>3. Precisionaire of Arizona</p> <p>4. Technical Air Balance SW, Inc.</p> <p>G. Final Report: Indicate deficiencies in systems that would prevent proper testing, adjusting, and balancing of systems and equipment to achieve specified performance.</p> <p>1. Provide final copies for Architect and for inclusion in operating and maintenance manuals.</p> <p>2. Provide reports in binder manuals, complete with index page and indexing tabs, with cover identification at front and side. Include set of reduced drawings with air outlets and equipment identified to correspond with data sheets, and indicating thermostat locations.</p> <p>3. Include actual instrument list, with manufacturer name, serial number, and date of calibration.</p> <p>4. Units of Measure: Report data in L-P (inch-pound) units only.</p> <p>5. Test Reports: Indicate data on AABC MN-1 forms.</p> <p>6. Include the following on the title page of each report:</p> <p>a. Name of Testing, Adjusting, and Balancing Agency.</p> <p>b. Address of Testing, Adjusting, and Balancing Agency.</p> <p>c. Telephone number of Testing, Adjusting, and Balancing Agency.</p> <p>d. Project name.</p> <p>e. Project location.</p> <p>f. Project Architect.</p> <p>g. Project Engineer.</p> <p>h. Project Contractor.</p> <p>i. Report date.</p> <p>7. A written report of test results shall be submitted to Architect.</p> <p>H. Examination.</p> <p>1. Verify that systems are complete and operable before commencing work.</p> <p>a. Systems are started and operating in a safe and normal condition.</p> <p>b. Temperature control systems are installed complete and operable.</p> <p>c. Proper thermal overload protection is in place for electrical equipment.</p> <p>d. Final filters are clean and in place. If required, install temporary media in addition to final filters.</p> <p>e. Duct systems are clean of debris.</p> <p>f. Fans are rotating correctly.</p> <p>g. Fire and volume dampers are in place and open.</p> <p>h. Air coil fins are cleaned and combed.</p> <p>i. Access doors are closed and duct end caps are in place.</p> <p>j. Air outlets are installed and connected.</p> <p>k. Duct system leakage is minimized.</p> <p>I. Tolerances.</p> <p>1. Air Handling Systems: Adjust to within plus or minus 5 percent of design for supply systems and plus or minus 10 percent of design for return and exhaust systems.</p> <p>Mechanical Sheet Specs / Mechanical Sheet Specs 23 0010 - 11 MECHANICAL SHEET (T.I. PACKAGES/SPLITS)</p>	<p>2. Air Outlets and Inlets: Adjust total to within plus 10 percent and minus 5 percent of design to space. Adjust outlets and inlets in space to within plus or minus 10 percent of design.</p> <p>J. Air System Procedure</p> <p>1. Adjust air handling and distribution systems to provide required or design supply, return, and exhaust air quantities.</p> <p>2. Make air quantity measurements in ducts by Pitot tube traverse of entire cross sectional area of duct.</p> <p>3. Measure air quantities at air inlets and outlets.</p> <p>4. Adjust distribution system to obtain uniform space temperatures free from objectionable drafts and noise.</p> <p>5. Use volume control devices to regulate air quantities only to extend that adjustments do not create objectionable air motion or sound levels. Effect volume control by duct internal devices such as dampers and splitters.</p> <p>6. Vary total system air quantities by adjustment of fan speeds. Provide drive changes required. Vary branch air quantities by damper regulation.</p> <p>7. Provide system schematic with required and actual air quantities recorded at each outlet or inlet.</p> <p>8. Measure static air pressure conditions on air supply units, including filter and coil pressure drops, and total pressure across the fan. Make allowances for 50 percent loading of filters.</p> <p>9. Adjust outside air automatic dampers, outside air, return air, and exhaust dampers for design conditions.</p> <p>10. Measure temperature conditions across outside air, return air, and exhaust dampers to check leakage.</p> <p>3.09 SPECIAL MECHANICAL INSPECTION CERTIFICATE</p> <p>A. Duct Smoke Detectors and Fire and Smoke Dampers will require a Special Mechanical Inspection Certificate as required by the Local Jurisdiction.</p> <p>B. The Special Mechanical Inspector shall be one of the following independent, third party testing agencies (No exceptions):</p> <p>1. Technical Air Balance SW, Inc.</p> <p>2. Arizona Air Balance Company</p> <p>3. Precisionaire of Arizona</p> <p>4. Southwest Testing and Balancing LLC</p> <p>5. Tab Technology, Inc.</p> <p>C. The Special Mechanical Inspector shall submit a final signed report to the Registered Design Professional, Contractor and City Inspector providing final test results and stating whether the items requiring Mechanical special inspection were, to the best of the inspector's knowledge, in compliance with the approved plans and specifications and applicable workmanship provisions of the code.</p> <p>D. All discrepancies shall be brought to the immediate attention of the contractor for correction.</p> <p style="text-align: center;">END OF SECTION</p> <p>Mechanical Sheet Specs / Mechanical Sheet Specs 23 0010 - 12 MECHANICAL SHEET (T.I. PACKAGES/SPLITS)</p>
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SELF CERTIFIED BY: DATE: 03/06/2019
 DONALD ANDREWS CERTIFICATE #45

- PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL,
 - PLANS ARE COMPLETE.
 - THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

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 Job No. 197090

ALL CONCEPTS, DESIGNS, AND DATA INDICATED ON THESE DOCUMENTS ARE THE SOLE PROPERTY OF THE PETERSON ASSOCIATES, INC. AND SHALL NOT BE USED FOR ANY OTHER PURPOSE THAN ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

SECTION 26 020 ELECTRICAL SHEET SPECIFICATIONS

PART 1 GENERAL
1.01 SCOPE OF WORK
A. Intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor.
1.02 INSPECTION AND TESTS
A. Furnish Architect with certificate of inspection and approval by local authorities and required test reports prior to final acceptance of the project by the Architect.
1.03 REFERENCES AND REGULATORY REQUIREMENTS
A. Conform to current local building code.
1.04 PROJECT COORDINATION
A. All Contractors shall be responsible for coordinating Work with other trades and for cutting and re-finishing of existing walls, floors, solid and suspended ceilings, etc., where required by Work shown and noted herein.
1.05 FIELD VERIFICATION
A. The Contractor shall visit the job site and familiarize himself with all existing conditions which may affect his bid.
1.06 SUBMITTALS
A. See Architectural Administrative Requirements, for submittal procedures.
1.07 REQUEST FOR INFORMATION
A. Requests for information are to be submitted to the Architect/Engineer by the General Contractor.
1.08 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of experience.
1.09 REGULATORY REQUIREMENTS
A. All materials, equipment and installation must comply with all applicable laws, codes, rules, and regulations, required by City, County and State, as well as Federal requirements.
1.10 WARRANTY
A. Contractor shall guarantee all materials, equipment and workmanship from defect and shall repair or replace, without additional cost to the Owner, all defective material, equipment and workmanship for a period of one year after Date of Substantial Completion.

B. Submit manufacturers' warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
2.01 APPROVED MANUFACTURERS
A. Manufacturers as indicated in these documents are approved for use in this project under the terms and conditions shown on the plans and in these specifications.
2.02 CONDUIT
A. Minimum Sizes:
1. Above slab: 1/2 inch unless otherwise noted.
2. Below slab: 3/4 inch unless otherwise noted.
3. Site underground: 1 inch unless otherwise noted.
B. Use
1. Underground locations:
a. Underground or under slab-on-grade: Use plastic coated rigid steel conduit or Schedule 40 nonmetallic conduit.
b. All vertical underground elbows shall be plastic coated rigid steel conduit.
c. Flexible cable shall not be used in underground applications.
2. Indoor wet and damp locations: Use rigid steel conduit or electrical metallic tubing.
a. Watertight flexible cable is permitted subject to National Electrical Code Provisions.
3. Indoor dry locations:
a. Concealed: Use rigid steel conduit, electrical metallic tubing, or type MC cable.
b. Exposed (Unfinished Areas): Use rigid steel to 8 feet above flush floor or to first junction box. Electrical metallic tubing may be used beyond these limits.
4. Outdoor Locations above grade: Use rigid steel or electrical metallic tubing.
a. Liquid-tite cable is permitted subject to National Electrical Code Provisions.
5. Conduits shall not be installed in floor slabs.
6. Exposed conduit floor penetrations from slabs on grade shall be plastic coated or wrapped (10 mil tape with 1/2 lap) galvanized rigid steel or intermediate metal conduit.
7. Concealed floor penetrations from slabs on grade in a finished wall or chase may be Schedule 40 non-metallic conduit. Extend nonmetallic conduit to nearest junction box.
8. Rigid steel conduit wrapped with 10 mil PVC tape 1/2 lapped is acceptable in lieu of plastic coating.
9. Intermediate metal conduit is acceptable in lieu of rigid steel conduit.
10. A green equipment grounding conductor shall be run inside all raceways.
11. Liquid tight flexible conduit used outdoors shall be U.L. listed for sunlight resistance.
C. Manufacturers:
1. Rigid Steel, Intermediate Metal Conduit, and Electrical Metallic Tubing:
a. Allied Tube and Conduit, AFC, Hubbell
2. PVC coating for rigid steel conduit:
a. Occidental Coating, P.C.D., Robroy Industries
3. Flexible metal conduit and liquid tight flexible metal conduit
a. Acme International, Electri-Flex, Hubbell
4. Nonmetallic conduit
a. Carlon, RACO, Con-Tex
2.03 BUILDING WIRE AND METALCLAD CABLE
A. Manufacturers
1. Okonite, General Cable, Southwire, American Insulated Wire
B. Description
1. Building wire: Single conductor, 600 volt, XHHW or THHN/THWN insulated copper wire.
2. Metal clad cable: Interlocked steel jacket with 90 degree C., 600 volt, copper wire.
3. Use conductor not smaller than 12 AWG for power and lighting circuits. Use conductor not smaller than 18 AWG for control circuits.
4. Metalclad cable shall be used for concealed, indoor, dry locations only.
2.04 BOXES
A. Luminaire and Equipment Supporting Boxes: Rated for weight of equipment supported; include 1/2 inch male fixture studs where required.
B. Cost Boxes: Cast aluminum with gasketed cover.
C. Floor Boxes: Fully adjustable.
D. In-Ground Cast Metal Box: Galvanized cast iron Type 6, flanged with neoprene gasket and flush, nonskid cover with stainless steel screws. Provide with "ELECTRIC" cover legend.
2.05 ENCLOSURES AND CABINETS
A. Enclosure construction: NEMA Type 1 or 3R galvanized steel with hinged cover as required by application. Other types may be required as noted on drawings.
B. Provide interior panel of 3/4" plywood for mounting terminal blocks and electrical components. Finish with white enamel.
C. Recessed backboxes may be galvanized steel.
D. Box Size: As indicated on Drawings.
E. Provide metal barriers to separate compartments containing control wiring operating at less than 50 volts from power wiring.
F. Terminal blocks
1. Power Terminals: Unit construction type with closed back and tubular pressure screw connectors, rated 600 volts.
2. Signal and Control Terminals: Modular construction type, suitable for channel mounting, with tubular pressure screw connectors, rated 300 volts.
3. Provide ground bus terminal block, with each connector bonded to enclosure.
G. Telephone Termination Backboards
1. Description: 3/4 inch plywood, size as indicated on Drawings.
2.06 DEVICES
A. Manufacturers: Hubbell, Leviton, Pass and Seymour
B. Description
1. Wall switches: 120-277 volt, 20 amp general-use snap switch with white rocker handle.
2. Receptacles
a. Standard, White plastic, type 5-20.
b. GFI Receptacle: Convenience receptacle with integral ground fault circuit interrupter and test switch.
c. Isolated Ground Receptacle: Hubbell #65262 or equal.
d. Wall plates
1) Decorative Cover Plate: White, smooth plastic.
2) Surface Mounted Device Cover Plate: Galvanized steel.
3) Weather Proof Cover Plate (Continuous use): Gasketed, top hinged, full plug protection equal to "TYMARC".
4) Weatherproof Cover Plate (Non-continuous use): Gasketed cast metal with hinged gasketed device cover.
3. Wall dimmers
a. Manufacturers: Lutron, Hunt, Leviton
b. Description: Semiconductor dimmer suitable for lamp wattage and type (incondescent, Low Voltage, Fluorescent, LED) as indicated on Drawings.
c. Device Body: White plastic with slide control and preset.
2.07 GROUNDING AND BONDING
A. Rod electrode
1. Manufacturers: Blackburn, Carolina Galvanized, Knight Metalcraft
2. Description: Copper clad steel 3/4 inch x 10 feet.
B. Plate electrode
1. Description: 1/4" x 18" x 18" (minimum) copper plate.
C. Mechanical connectors
1. Manufacturers: O - Z Gedney, Thomas and Betts, Kearney - National
2. Material: Bronze.
D. Exothermic connections
1. Manufacturers: Codwell, Thermoweld
E. Wire
1. #4 and Smaller: Solid copper.
2. #3 and Larger: Stranded copper.
2.08 IDENTIFICATION
A. Nameplates
1. Nameplates: Engraved three-layer laminated plastic.
2. Colors: White letters on black background for general identification; white letters on red background for warning or safety applications.
3. Locations:
a. Each electrical distribution and control equipment enclosure (black).
b. Communication cabinets (black).
c. Equipment disconnect switches (black).
d. Locating concealed building ground connections (red).

4. Letter Size:
a. Use 1/8 inch letters for identifying individual equipment, loads, or circuit numbers.
b. Use 1/4 inch letters for identifying grouped equipment and loads.
c. Use 3/8 inch letters for major heading on warning type nameplates.
B. Wire Markers
1. Description: Tape wire markers.
2. Locations: Each conductor at panelboard terminations, pull boxes, and each load connection.
3. Legend:
a. Power and Lighting Circuits: Branch circuit or feeder number indicated on drawings.
b. Control Circuits: Control wire number indicated on shop drawings.
C. Series Rated Equipment: Equipment indicated on the electrical drawings as comprising of part of the series rated combination shall be visibly and readily marked with a label as required by NEC 110-22 "Caution-Series Rated System () Available. Identified Replacement Component Required." The first blank space is to be permanently marked with the maximum available fault-current for the system; the second blank space is to be marked with the calculated available fault current at that location.
1. EXAMPLE: "Caution-Series Rated System, 65/10 23K Amps Available. Identified replacement component required".
2.09 UTILITY SERVICE ENTRANCE
A. Meters will be furnished by Utility Company.
B. Description: Per utility company requirements.
C. Meter Height: Maximum meter centerline height shall not exceed 6'-3" above the surface on which the meter reader stands.
D. Include provisions for padlocking and sealing as required by Utility Company.
2.10 MAIN SWITCHBOARD
A. Manufacturers: Siemens, Square D, Eaton Corporation; Cutler-Hammer Products, 100 cubic.
B. Description: Deadfront distribution switchboard rated for use as Service Entrance Equipment and accessible from front only. Busbars shall be fully insulated aluminum with standard spacing for uninsulated bus. Provide an insulated ground bus extending the length of the switchboard.
C. Molded Case Circuit Breakers: NEMA AB 1, bolt-on type thermal magnetic circuit breakers with common trip handle for all poles. Provide stationary mounting. Provide ground fault sensing when indicated on drawings. Circuit breakers in switchboards 800 amps and larger shall be 100% rated.
D. Minimum Interrupted Short Circuit Rating (MISCR): When so indicated on the Electrical drawings, the MISCR shall be part of a listed series rated combination with other overcurrent protective devices. Otherwise, the minimum integrated short circuit rating shall be 10,000 A.I.C. symmetrical for 240 V.A.C. panelboards, unless noted otherwise.
E. Fusible Switch Assemblies (where shown): Quick make/quick break load interrupter switch with externally operable handle. Provide interlock to prevent opening front cover with switch in ON position. Handle lockable in OFF position.
F. Enclosure: Nema 1 or 3R as shown on drawings. Align sections at front and rear. Nominal switchboard height shall be 90 inches. Provide manufacturer's standard finish.
2.11 ENCLOSED SWITCHES
A. Match Distribution Equipment.
B. Fusible Switch Assemblies: Load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in ON position. Handle lockable in OFF position. Fuse clips shall accommodate Class R or Class J fuses as indicated on drawings.
C. Nonfusible Switch Assemblies: Load interrupter enclosed knife switch with externally operable handle interlocked to prevent opening front cover with switch in ON position. Handle lockable in OFF position.
D. Enclosures: Nema 1 or 3R as shown on drawings.
2.12 PANELBOARDS
A. Manufacturers - Match Distribution Equipment.
B. Panelboard Bus: Copper or aluminum. Provide copper ground bus in each panelboard. Provide isolated copper ground bus where indicated.
C. The main circuit breaker in panelboards shall be rated at 80%.
D. Minimum Interrupted Short Circuit Rating (MISCR): When so indicated on the Electrical drawings, the MISCR shall be part of a listed series rated combination with other overcurrent protective devices. Otherwise, the minimum integrated short circuit rating shall be 10,000 A.I.C. symmetrical for 240 V.A.C. panelboards, unless noted otherwise.
E. Molded Case Circuit Breakers: Bolt-on type thermal magnetic circuit breakers, with common trip handle for all poles. Provide circuit breakers UL listed as type SWD for lighting circuits. Provide UL Class A ground fault interrupter circuit breakers where scheduled. Do not use tandem or piggy back circuit breakers.
F. Enclosure: NEMA Type 1 or Type 3R as indicated or required by the application.
G. Cabinet Front: Flush or surface as indicated on drawings with concealed trim, clamps, concealed hinges, and flush lock all keyed alike. Cabinet front shall be "Door-in-Door" style. Finish in manufacturer's standard gray enamel.
H. Breaker Space Identification: Permanent factory supplied numbering affixed to dead front panel. Adhesive numbering on breaker or dead front panel shall not be used.
2.13 ENCLOSED MOTOR CONTROLLERS
A. Manufacturers: Siemens, Square D, Eaton Corporation; Cutler-Hammer Products, General Electric
B. Manual Controllers
1. Fractional Horsepower Motor Starting Switch with Thermal Overloads: NEMA ICS 2, AC general-purpose Class A manually operated, full-voltage controller for fractional horsepower induction motors with red pilot light and toggle operator.
2. Fractional Horsepower Motor Starting Switch without Thermal Overloads: AC general-purpose Class A manually operated, full-voltage controller for fractional horsepower induction motors with green pilot light and toggle operator.
3. Enclosure: Type 1 or 3R as shown on drawings or as required by application.
C. Automatic Controllers
1. Magnetic Motor Controllers: AC general-purpose Class A magnetic controller for induction motors rated in horsepower.
2. Coil operating voltage: 120 volts.
3. Overload Relay: Melting alloy.
4. Enclosure: Type 1 or 3R as shown on drawings or as required by application.
5. Product Options and Features
a. Auxiliary Contacts: 1 field convertible contact in addition to seal-in contact.
b. Control Mounted Pilot Devices: NEMA ICS 2, standard duty type.
c. Pushbuttons: Unguarded type.
d. Indicating Lights: LED or neon type.
e. Selector Switches: Rotary type.
f. Control Power Transformers: 120 volt secondary, 50 va minimum, in each motor starter. Provide fused secondary, and bond unfused leg of secondary to enclosure.
D. Where indicated on Drawings, the following described combination starters shall be utilized:
1. Nonfusible Switch Assemblies: NEMA KS 1, enclosed knife switch with externally operable handle.
2. Fusible Switch Assemblies: NEMA KS 1, enclosed knife switch with externally operable handle. Fuse clips: Designed to accommodate Class R fuses.
2.14 LIGHTING FIXTURES
A. Furnish products as specified in Lighting Fixture Schedule.
B. Install ballasts, and specified accessories at factory. Fixtures may be pre-ramped and flexible conduit whip installed at factory at contractor's option.
C. Emergency Lighting Units
1. Battery: Nickel-cadmium type, with 1.5 hour capacity.
2. Battery Charger: Dual-rate type, with sufficient capacity to recharge discharged battery to full charge within twelve hours.
3. Lamps: 12 watt minimum, sealed beam type in nickel or chrome plated steel housing.
4. Remote Lamps: Match lamps on unit.
5. Indicators: Provide lamps to indicate AC ON and RECHARGING.
6. Provide TEST switch to transfer unit from external power supply to integral battery supply.
D. Exit Signs
1. Description: Exit sign fixture suitable for use as emergency lighting unit. Description as indicated in Lighting Fixture Schedule.
2. Mounting: Universal, for field selection.
3. Battery: Nickel-cadmium with 1.5 hour capacity.
4. Battery Charger: Dual-rate type, with sufficient capacity to recharge discharged battery to full charge within twelve hours.
E. Lamps
1. Manufacturers: General Electric, Sylvania, North American Philips
F. Poles shall be capable of withstanding winds of 100 miles per hour minimum.
PART 3 EXECUTION
3.01 WORK SEQUENCE

A. Install work in stages to accommodate Owner's occupancy requirements. During the construction period coordinate electrical schedule and operations with other trades, Owner, and/or Engineer.
3.02 CONDUIT
A. Support conduit using coated steel or malleable iron straps, lay-in adjustable hangers, clevis hangers, and split hangers.
B. Fasten conduit supports to building structure and surfaces.
C. Do not support conduit with building wire, twine or perforated pipe straps. Remove wire used for temporary supports.
D. Do not attach conduit larger than 3/4 inch to ceiling support wires. Do not attach more than one conduit to any one support wire.
E. Arrange conduit to maintain headroom and present neat appearance.
F. Route conduit parallel and perpendicular to walls.
G. Route conduit under slab from point-to-point.
H. Maintain 3 inch clearance between conduit and surfaces with temperatures exceeding 104 degrees F.
I. Join nonmetallic conduit using cement as recommended by manufacturer. Wipe nonmetallic conduit dry and clean before joining. Apply full even coat of cement to entire area inserted in fitting. Allow joint to cure for 20 minutes, minimum.
J. Use conduit hubs or sealing locknuts to fasten conduit to sheet metal boxes in damp and wet locations.
K. Install no more than equivalent of four 90-degree bends between boxes. Use conduit bodes to make sharp changes in direction, as around beams.
L. Avoid moisture traps; provide junction box with drain fitting at low points in conduit system.
M. Provide suitable fittings to accommodate expansion and deflection where conduit crosses seismic, control or expansion joints.
N. Provide 100 pound test pull string in each empty conduit except sleeves and nipples.
O. Terminate all conduits with an insulated throat fitting or bushing.
3.03 BUILDING WIRE
A. Use 10 AWG conductors for 20 ampere, 120 volt branch circuits longer than 100 feet.
B. Only where necessary, use suitable wire pulling lubricant for building wire 4 AWG and larger.
C. Neatly train and lace wiring inside boxes, equipment, and panelboards.
D. Verify continuity of each branch circuit conductor.
E. Verify condition of feeder insulation No. 6 and larger with a 1000 volt megger. Record all readings of all phase conductors.
3.04 BOXES
A. Install electrical boxes to maintain headroom and to present neat mechanical appearance.
B. Inaccessible Ceiling Areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed luminaire.
C. Do not install flush mounting boxes back-to-back in walls; provide minimum 6 inch separation. Provide minimum 24 inches separation in acoustic rated walls.
D. Boxes may be fastened to ceiling support wires only with an approved standoff device maintaining a minimum of 6" from the bottom of the box to the top of the T-bar.
E. Support boxes independently of conduit, except cast boxes that are connected to two rigid metal conduits both supported within 12 inches of box.
F. Use cast outlet box in exterior locations exposed to the weather and wet locations.
G. Coordinate locations and sizes of required access doors with Division 8.
H. Coordinate mounting heights and locations of outlets mounted above counters, benches and backslashes.
I. Adjust floor boxes flush with finish flooring material.
J. Install box or device ring to within 1/8" of finished wall surface.
K. Provide stud-to-stud support for boxes in non-masonry walls.
3.05 IDENTIFICATION
A. Provide panel and circuit number(s) for all circuits contained within each junction or pull box. Use only black "Magic Marker"; no other color is acceptable.
B. All special system junction or pull box covers shall indicate name system, such as: "TEL", "DATA", "FIRE ALARM", "SECURITY", etc.
3.06 DEVICES
A. Install devices plumb and level.
B. Install switches with OFF position down.
C. Install decorative plates on outlets, receptacle, and blank outlets in finished areas.
D. Use jumbo size plates for outlets installed in masonry walls.
E. Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted outlets.
F. Test each receptacle device for proper polarity.
G. Test each GFCI receptacle device for proper operation.
3.07 GROUNDING AND BONDING
A. Provide code size bond conductor in all raceways.
B. Provide certified test report indicating overall resistance to ground.
C. Structural steel bond attachment shall be by exothermic weld.
3.08 ANCHORS AND FASTENERS
A. Do not fasten supports to pipes, ducts, mechanical equipment, and conduit. Do not drill or cut structural members.
B. Install surface-mounted cabinets and panelboards with minimum of four anchors.
D. Use sheet metal channel to bridge studs above and below cabinets and panelboards recessed in hollow partitions.
3.09 IDENTIFICATION
A. Install nameplate and label parallel to equipment lines.
B. Secure nameplate to equipment front using tamperproof screws or rivets.
3.10 UTILITY SERVICE ENTRANCE
A. Make arrangements with Utility Company to obtain permanent electric service to the Project.
3.11 PANELBOARDS
A. Install panelboards plumb. Install recessed panelboards flush with wall finishes.
B. Height: 6 ft to top of panelboard; install panelboards taller than 6 ft with bottom no less than 4 inches above floor.
C. Provide filler plates for unused spaces in panelboards.
D. Provide typed circuit directory for each branch circuit panelboard.
E. Provide spare conduits out of each recessed panelboard to an accessible location above ceiling. Minimum spare conduits: 5 empty 1 inch. Identify each as SPARE.
3.12 ENCLOSED MOTOR CONTROLLERS
A. Height: 5 ft to top of operating handle.
B. Install fuses in fusible switches.
C. Select and install overhead heater elements in motor controllers to match installed motor characteristics.
3.13 LIGHTING FIXTURES
A. Install suspended luminaires and exit signs using pendants supported from swivel hangers. Provide pendant length required to suspend luminaire at indicated height. Chain suspension may be used in mechanical rooms.
B. Support luminaires larger than 2 x 4 foot size independent of ceiling framing.
C. Install surface mounted luminaires and exit signs plumb and adjust to align with building lines and with each other. Secure to prohibit movement.
D. Install specified lamps in each luminaire.
E. Provide seismic supports and restraints as required by all local and state requirements.
F. Relamp luminaires utilized during construction at Substantial Completion.
G. Replace excessively noisy ballasts as determined by Architect/Engineer.
H. Clean photometric control surfaces.
I. Clean finishes and touch up damage.
J. Provide minimum of 24 consecutive hours of luminaire operation. Replace defective lamps and ballasts at conclusion of demonstration period.
K. Examine excavation and concrete foundation for lighting poles.
L. Install poles plumb. Provide double nuts to adjust plumb. Grout around each base.
M. Install bolt covers.
3.14 TELEPHONE TERMINAL BOARDS
A. Install termination backboards and/or cabinets plumb, and attach securely to building wall at each corner. Install cabinet trim plumb.
END OF SECTION

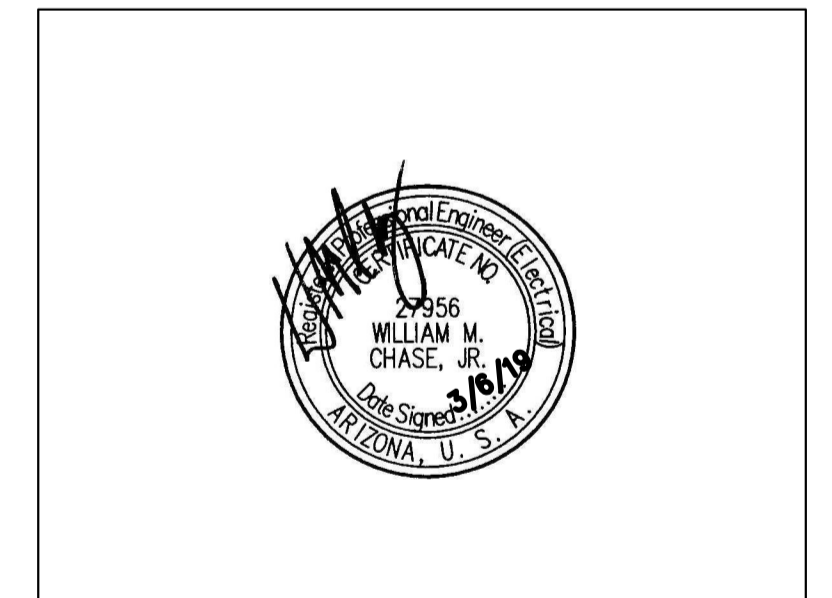
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SHEET ISSUE / REV: Table with columns NO., DESCRIPTION, DATE. Includes entries for PRE-APP MTG, MINOR SITE PLAN, and CITY SUBMITTAL.



Owner JONATHAN PITT
Proj. Nam WANDERIST OFFICE & RETAIL

ELECTRICAL SPECIFICATIONS

Date 03/06/19

E002

Scale AS SHOWN

KIVA #18-1372
SDEP #1800276
PAPP #1806619
PRLC
QS Q16-36

COMcheck Software Version 4.1.1.0 Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: WANDERIST OFFICE & RETAIL
 Project Type: New Construction
 Construction Site: _____ Owner/Agent: _____ Designer/Contractor: PACE AZ

Additional Efficiency Package(s)
 Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Retail/Sales Area	1926	1.10	2119
2-Common Space Types:Corridor/Transition <8 ft wide	132	0.59	78
3-Common Space Types:Office - Enclosed	140	0.84	118
4-Common Space Types:Restrooms	142	0.77	109
5-Common Space Types:Storage >=1000 sq.ft.	1412	0.41	579
Total Allowed Watts =			3002

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Retail/Sales Area				
LED 1: A: Other:	1	31	35	1085
2-Common Space Types:Corridor/Transition <8 ft wide				
LED 2: B: Other:	1	4	21	84
3-Common Space Types:Office - Enclosed				
LED 1: A: Other:	1	30	35	1050
4-Common Space Types:Restrooms				
LED 2: B: Other:	1	4	21	84
5-Common Space Types:Storage >=1000 sq.ft.				
LED 3: C: Other:	1	14	28	392
Total Proposed Watts =				2695

Interior Lighting PASSES: Design 10% better than code

COMcheck Software Version 4.1.1.0 Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: WANDERIST OFFICE & RETAIL
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Neighborhood business district)
 Construction Site: _____ Owner/Agent: _____ Designer/Contractor: PACE AZ

Allowed Exterior Lighting Power

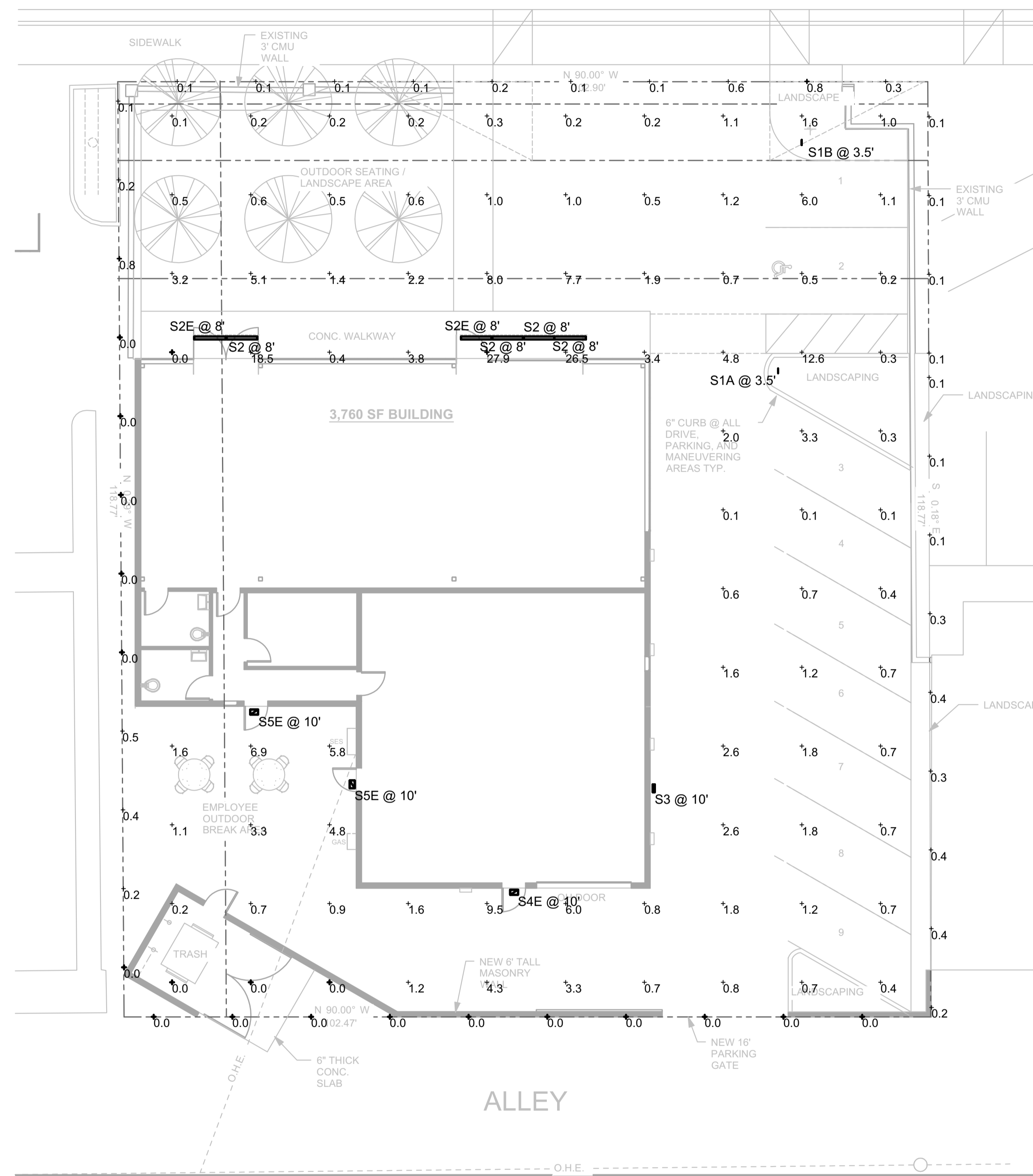
A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Dining area	690 ft ²	0.65	Yes	448
Loading dock	604 ft ²	0.35	Yes	211
Parking area	1630 ft ²	0.04	Yes	65
Driveway	2275 ft ²	0.04	Yes	91
Pedestrian and vehicular entrances and exits	12 ft of door	14	Yes	168
Total Tradable Watts (a) =				984
Total Allowed Watts =				984
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Dining area (690 ft ²): Tradable Wattage				
LED 5: S5E: Other:	1	2	12	24
Loading dock (604 ft ²): Tradable Wattage				
LED 4: S4E: Other:	1	1	25	25
Parking area (1630 ft ²): Tradable Wattage				
LED 1A: S1A: Other:	1	1	28	28
LED 1B: S1B: Other:	1	1	28	28
Driveway (2275 ft ²): Tradable Wattage				
LED 3: S3: Other:	1	1	39	39
Pedestrian and vehicular entrances and exits (12 ft of door width): Tradable Wattage				
LED 2: S2/S2E: Other:	1	6	13	78
Total Tradable Proposed Watts =				222

Exterior Lighting PASSES: Design 84% better than code



PHOTOMETRIC SITE PLAN
 1"=10'-0"

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PL FC AFG	+	0.2 fc	0.8 fc	0.0 fc	N/A	N/A
SITE FC AFG	+	2.7 fc	27.9 fc	0.0 fc	N/A	N/A

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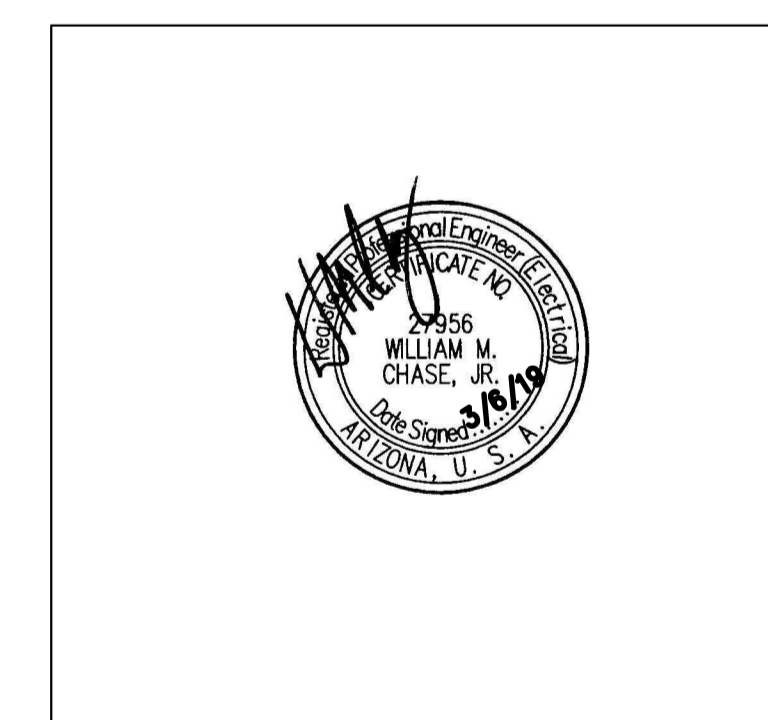
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-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19



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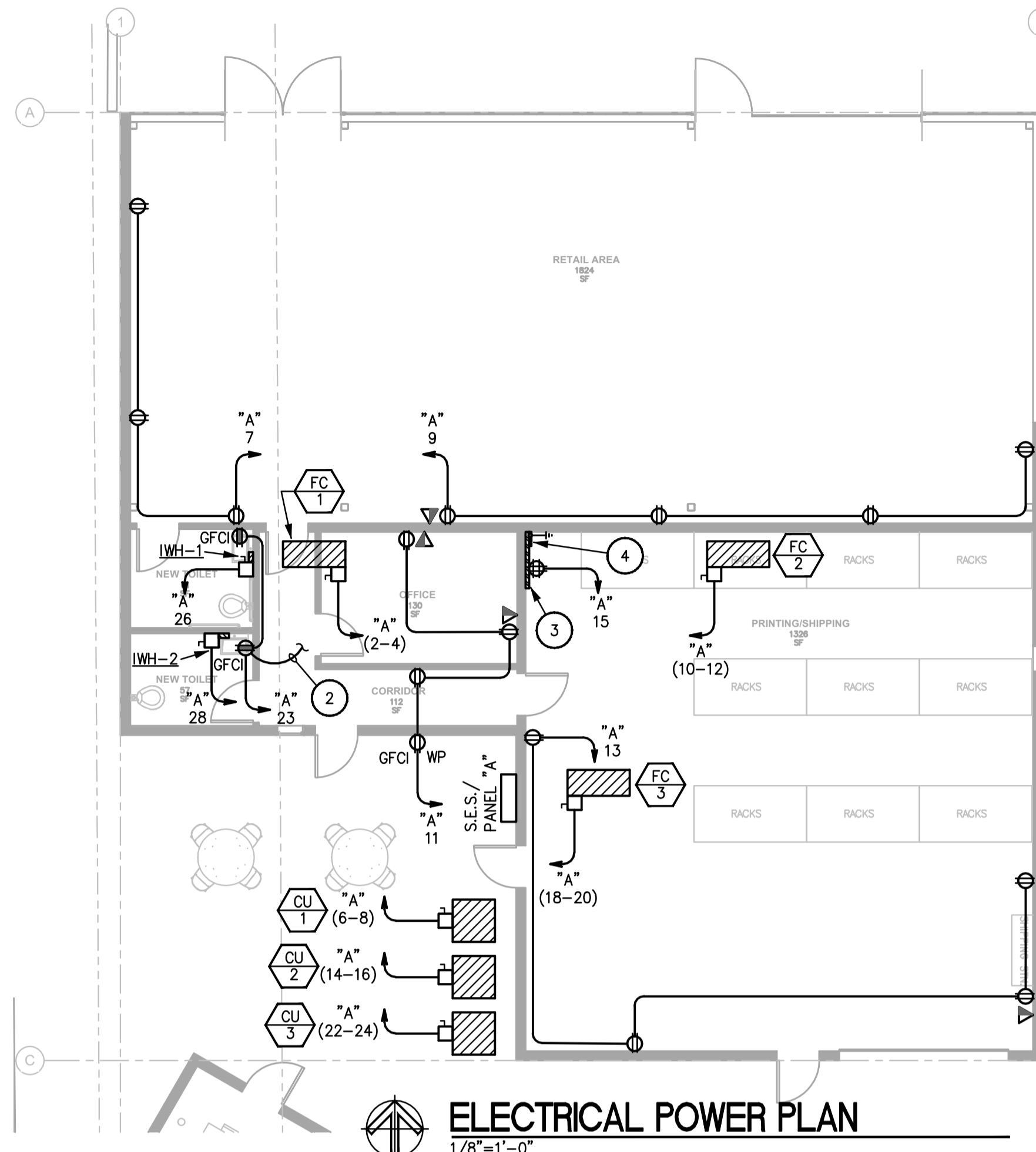
PHOTOMETRIC SITE PLAN

Date: 03/06/19

E101

Scale: AS SHOWN

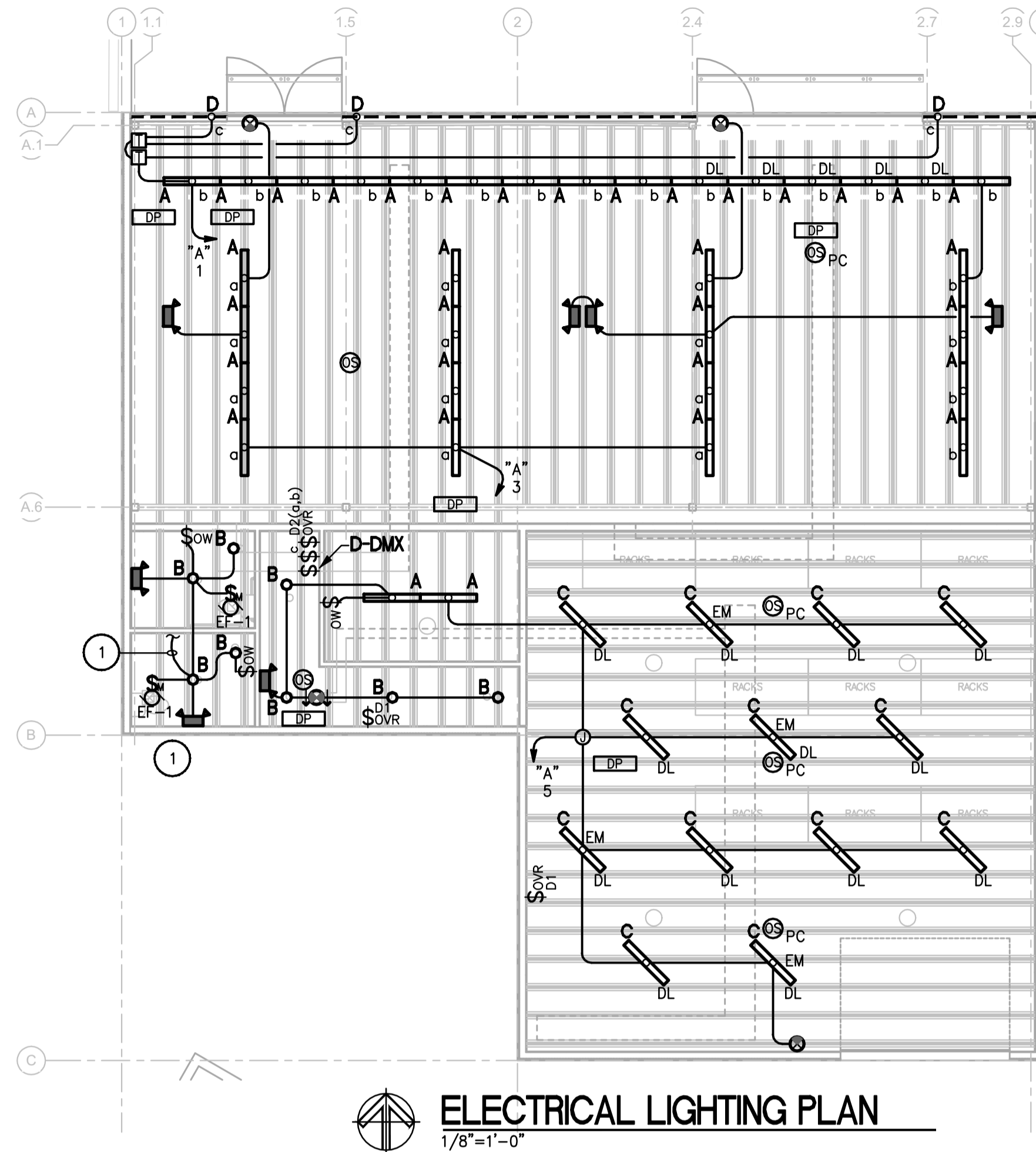
KIVA #18-1372
 SDEV #1800276
 PAPP #1806619
 PRLC
 QS Q16-36



ELECTRICAL POWER PLAN
1/8"=1'-0"

GENERAL POWER NOTES:

- REFER TO ONE-LINE DIAGRAM AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION.
- REFER TO ELECTRICAL PANEL SCHEDULES FOR BRANCH CIRCUIT NUMBERS AND OVERCURRENT DEVICES.
- WHERE POSSIBLE, MOUNT EQUIPMENT DISCONNECT SWITCHES DIRECTLY ON MECHANICAL UNIT SERVED. COORDINATE MOUNTING LOCATION AND SWITCH INSTALLATION WITH MECHANICAL CONTRACTOR. DISCONNECT SWITCH SHALL BE ACCESSIBLE AND MOUNTED SO THE COVER DOOR MAY BE OPENED AT LEAST 90 DEGREES.
- THE LOCATIONS AND MOUNTING HEIGHT OF DEVICES SHOWN ON THESE PLANS ARE DIAGRAMMATIC TO COMMUNICATE QUANTITIES, CIRCUITING, AND GENERAL LOCATIONS. DO NOT SCALE LOCATIONS FROM THESE PLANS. REFER TO ARCHITECTURAL DIMENSIONED PLANS AND ELEVATIONS. VERIFY THE EXACT LOCATIONS OF ALL RECEPTACLES, TELEPHONE AND DATA OUTLETS, AND OTHER SPECIAL SYSTEMS OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.
- PRIOR TO ROUGH-IN, FIELD VERIFY FEEDER ROUTING TO ASSURE THERE ARE NO STRUCTURAL OBSTRUCTIONS OR COORDINATION CONFLICTS WITH EQUIPMENT PROVIDED BY OTHER TRADES. IDENTIFIED CONFLICTS AND/OR OBSTRUCTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, IN WRITING, PRIOR TO COMMENCEMENT OF ROUGH-IN.
- VERIFY THE PLACEMENT, WIRING REQUIREMENTS, AND EXACT LOCATION OF POINT OF CONNECTION, FOR ALL HVAC AND PLUMBING EQUIPMENT WITH THE HVAC AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. SEE DETAIL FOR METHOD TO BE USED WHEN CONNECTING DIRECT-WIRED EQUIPMENT. COORDINATE LOCATION/INSTALLATION OF DISCONNECT(S) AND WIRING WITH RESPECTIVE SUB-CONTRACTORS.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ARRANGE FOR AND PROVIDE MINIMUM WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT, DEVICES, AND DISCONNECT SWITCHES BASED UPON FIELD CONDITIONS AT THE TIME OF INSTALLATION AND IN ACCORDANCE WITH NEC ART. 110.26. IF THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ROUGH-IN.
- ALL CONDUITS SHALL BE PROVIDED WITH A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122. IN ADDITION, PROVIDE A SEPARATE FULL-SIZED ISOLATED GROUND CONDUCTOR IN CIRCUITS IDENTIFIED AS "IG".
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM LOAD INFORMATION PROVIDED IN ELECTRICAL EQUIPMENT SCHEDULES. VERIFY THE LOAD AND CONNECTION REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY OTHERS.
- ALL ENCLOSED MOTOR CONTROLLERS SHALL BE FURNISHED WITH FULL-SIZED OVERLOADS, 120V CONTROL-VOLTAGE TRANSFORMERS WITH PRIMARY AND SECONDARY FUSING, ROTARY H-O-A SELECTOR SWITCH, COVER-MOUNTED ON/OFF PILOT LIGHTS, AND TWO SETS EACH OF N.O. AND N.C. AUXILIARY DRY CONTACTS.
- ALL 120V SINGLE PHASE BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS. COMMON NEUTRALS ARE NOT ACCEPTABLE. (EXCEPTION: MULTIWIRE BRANCH CIRCUITS.)
- PROVIDE ID TAGS ON NEUTRAL CONDUCTORS IN PANELBOARD TO IDENTIFY ASSOCIATED BRANCH CIRCUIT.
- PROVIDE SUPPORTS, HANGERS, MISCELLANEOUS SWITCHES, CONTROLS, AND DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
- ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED AS "WEATHER RESISTANT". RECEPTACLES LOCATED OUTDOORS IN WET LOCATIONS SHALL HAVE AN ENCLOSURE THAT IS LISTED AS WEATHER-PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. (NEC ART.406.9(A)(B)).
- THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.



ELECTRICAL LIGHTING PLAN
1/8"=1'-0"

GENERAL LIGHTING NOTES:

- REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION ABOUT FIXTURE TYPES, QUALITY, LAMPS, BALLASTS, ACCESSORIES, AND INSTALLATION REQUIREMENTS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT PLACEMENT AND QUANTITIES OF CEILING MOUNTED LIGHT FIXTURES. COORDINATE PLACEMENT AND INSTALLATION OF CEILING MOUNTED ELECTRICAL ITEMS WITH OTHER TRADES TO AVOID CONFLICTS.
- REFER TO LIGHTING CONTACTOR AND/OR CONTROL DETAILS FOR ADDITIONAL INFORMATION.
- INSTALL SURFACE MOUNTED EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS ON EITHER WALL OR CEILING SURFACE AS DIRECTED BY THE ARCHITECT. EXIT SIGNS AND EMERGENCY LIGHTING SHALL BE CIRCUITED FROM LOCAL LIGHTING CIRCUITS. THEY SHALL NOT BE SWITCHED.
- "EM" INDICATES AN EMERGENCY LIGHT FIXTURE SERVING AS AN EMERGENCY EGRESS LIGHT REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- EXIT SIGNS, EMERGENCY LIGHTS, AND EMERGENCY BALLASTS SHALL BE CIRCUITED FROM THE LOCAL UNSWITCHED LIGHTING BRANCH CIRCUIT.
- "NL" INDICATES AN UNSWITCHED LIGHTING FIXTURE SERVING AS A NIGHTLIGHT.
- AN AVERAGE OF AT LEAST 1.0 FOOT-CANDLE SHALL BE PROVIDED FOR EMERGENCY EGRESS LIGHTING. HEADS OF EMERGENCY LIGHTING UNITS SHALL BE AIMED BY THE CONTRACTOR PER MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED BY THE LOCAL INSPECTOR.
- EXIT LIGHT POSITIONS SHALL BE COORDINATED WITH PENDANT LIGHTS AND OTHER ARCHITECTURAL FEATURES TO MINIMIZE OBSTRUCTIONS TO CLEAR VISIBILITY.
- UNITIZED EMERGENCY LIGHT FIXTURES, EXIT SIGNS, AND LED FIXTURES CONTAINING INTEGRAL BATTERIES AND CHARGING EQUIPMENT SHALL BE SERVED IN ACCORDANCE WITH NEC ART. 700.12(F). THE BRANCH CIRCUIT SHALL BE CLEARLY IDENTIFIED IN THE PANEL AS SERVING EMERGENCY LIGHTING.
- FINAL QUANTITIES AND LOCATIONS OF EMERGENCY LIGHTS AND EXIT SIGNS ARE TO BE DETERMINED IN THE FIELD WITH CITY AND STATE INSPECTORS AND THE ARCHITECT. THE CONTRACTOR SHALL PROVIDE A UNIT PRICE IN HIS BID FOR ADDITIONAL EXIT SIGNS & EMERGENCY LIGHTS THAT MAY BE REQUIRED BY THE LOCAL JURISDICTION.
- ALL CONDUITS SHALL BE FURNISHED WITH A GREEN EQUIPMENT GROUND SIZED IN ACCORDANCE WITH NEC TABLE 250.122.
- PROVIDE A SEPARATE NEUTRAL FOR ALL 120V LIGHTING BRANCH CIRCUITS. COMMON (SHARED) NEUTRALS ARE NOT ACCEPTABLE.
- PROVIDE A NEUTRAL CONDUCTOR AT ALL LIGHT SWITCHES PER NEC ART. 404.2.
- ALL LIGHTING CIRCUITS ARE TO BE CONTROLLED AT THE PANELBOARD WITH CIRCUIT BREAKERS RATED FOR SWITCHING DUTY UNLESS LOCAL SWITCHING IS EITHER SHOWN OR OTHERWISE NOTED ON THE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATIONS AND INSTALLATION OF ALL CEILING RECESSED LIGHTING FIXTURES WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.
- THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL STATE AND LOCAL SEISMIC REQUIREMENTS.
- ALL BIDDING CONTRACTORS SHALL INCLUDE LIGHT FIXTURE PACKAGE AND CONTROLS AS SCHEDULED ON THE PLANS AS PART OF BASE BID.
- CONTRACTORS MAY SUBMIT ALTERNATE LIGHT FIXTURE AND LIGHTING CONTROLS BY OTHER MANUFACTURERS THAN THOSE SHOWN IN THE LIGHT FIXTURE SCHEDULE AS PART OF BID, PROVIDED THEY ARE EQUAL IN ALL MANNERS INCLUDING BUT NOT LIMITED TO APPEARANCE, PERFORMANCE AND WARRANTY. THE BURDEN OF PROOF OF EQUALITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ALTERNATE MANUFACTURER. EVALUATION AND ACCEPTANCE OF ALTERNATES SHALL BE BY THE ARCHITECT, OWNER/TENANT AND/OR BUILDING MANAGEMENT. ALTERNATE MANUFACTURERS SHALL FURNISH COMPLETE POINT-BY-POINT PHOTOMETRY OF INTERIOR AND EXTERIOR LIGHTING IF SO REQUESTED BY THE OWNER, ARCHITECT, ENGINEER OR THE LOCAL AUTHORITY HAVING JURISDICTION AT NO ADDITIONAL CHARGE.
- SHOP DRAWINGS AND/OR SUBMITTALS FOR ANY ALTERNATE LIGHT FIXTURE OR LIGHTING CONTROLS SHALL INCLUDE WRITTEN CONFIRMATION THAT SUCH ALTERNATE WAS REVIEWED AND APPROVED BY ARCHITECT, OWNER/TENANT AND/OR BUILDING MANAGEMENT.

IECC LIGHTING COMPLIANCE

ALL LIGHTING INSTALLATIONS SHALL CONFORM TO THE LOCALLY ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC). SEE COMCHECK FORMS FOR SPECIFIC REQUIREMENTS OF THIS PROJECT.

KEY NOTES:

- DOWN TO RECEPTACLE BELOW.
- UP TO LIGHT FIXTURE OVERHEAD.
- NEW 4"x8"x3/4" FIRE RETARDANT PLYWOOD FOR LOW VOLTAGE SYSTEMS BACK BOARD.
- NEW 12"x6" PRE-DRILLED COPPER GROUND BUS FOR LOW VOLTAGE AND COMMUNICATION SYSTEM BONDING. FURNISH #6 BARE COPPER GROUND TO INTERSYSTEM BONDING BUS BAR AT S.E.S.

LIGHTING CONTROL SYMBOLS

- DL FIXTURE WITH DAY LIGHT CONTROL
- \$OD WALL MOUNTED MOTION SWITCH WITH 0-10VDC DIMMING. MOUNT TOP OF BOX AT +48" AFF.
- \$OW WALL MOUNTED MOTION SWITCH. MOUNT TOP OF BOX AT +48" AFF.
- DS CEILING MOUNTED DUAL TECH MOTION SENSOR
- PC CEILING MOUNTED DUAL TECH MOTION SENSOR AND DIMMING PHOTOCELL.
- \$OVR LOW VOLTAGE OVERRIDE SWITCH WITH DIMMING. MOUNT TOP OF BOX AT +48" AFF. D#-NUMBER OF LOADS CONTROLLED.
- DP DIMMING PACK 0-10V DC MOUNTED ABOVE ACCESSIBLE CEILING.

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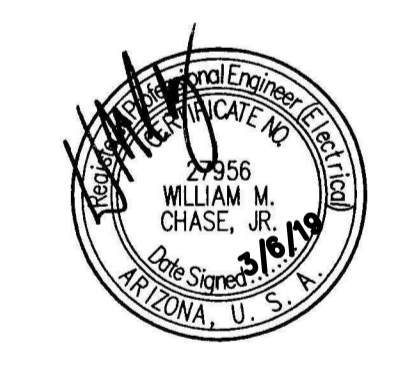
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-	CITY SUBMITTAL	03.06.19

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ELECTRICAL PLANS

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E200

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ACUITY CONTROLS LEGEND
 Created by John Abberton

SWX
 WSX PDT SA XX
 Wall Switch Sensor, Passive Dual Technology, Vacancy (default) or Auto-On

DP
 NPP16 D EFP
 Power/Relay Pack, Occupancy Controlled Dimming

DS
 NCM PDT 10 ADCX
 Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Large Motion / Extended Range 360 Lens, Photocontrol w/ Auto Dimming; No Wires

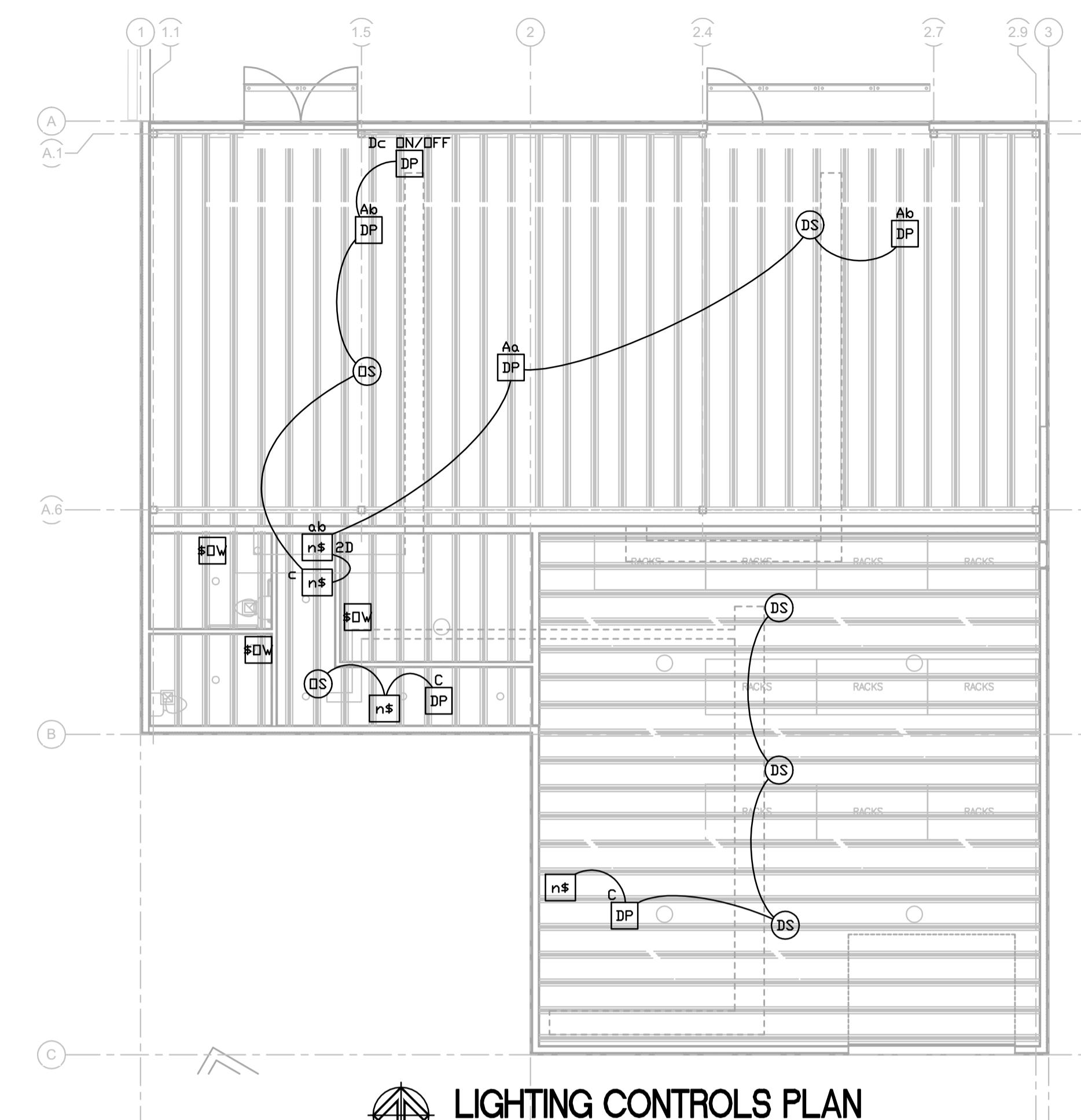
nS
 NPDDM XX
 Low Voltage Push-Button Wallpod

nS 2D
 NPDDM 2P DX XX
 Low Voltage Push-Button Wallpod, 2-Pole, Occupancy controlled dimming without dimming output

DS
 NCM PDT 10
 Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Large Motion / Extended Range 360 Lens

WIRE LEGEND - Design 1

CAT5e
 CAT5e
 Pre-terminated CAT5e cable

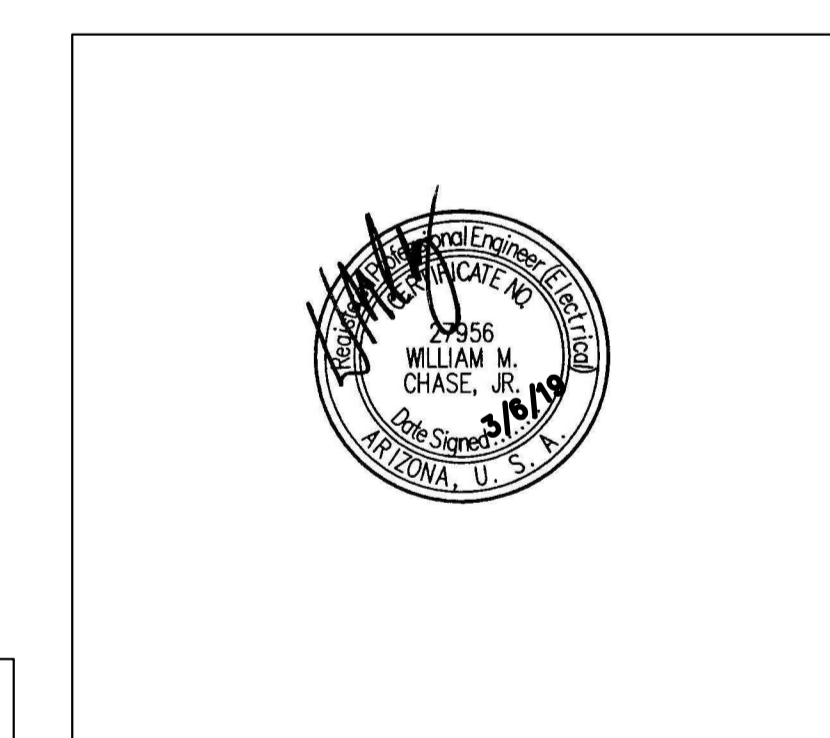


LIGHTING CONTROLS PLAN
 1/8"=1'-0"

- GENERAL LIGHTING CONTROL NOTES:**
- THE WIRING DIAGRAMS SHOWN ARE GENERIC FOR THE PURPOSE OF SHOWING GENERAL INTENT. THE CONTRACTOR SHALL OBTAIN COMPLETE SHOP DRAWINGS, INCLUDING COMPLETE AND PROJECT SPECIFIC WIRING DIAGRAMS FOR EACH PROJECT FROM THE CONTROLS SUPPLIER/INSTALLER. THE SHOP DRAWINGS MUST BE REVIEWED BY THE ENGINEER PRIOR TO THE START OF ANY WORK RELATED TO THE LIGHTING CONTROL SYSTEM.
 - THE CONTRACTOR SHALL PROVIDE COMMISSIONING OF THE SYSTEM BY A FACTORY CERTIFIED TECHNICIAN. THE FACTORY CERTIFIED TECHNICIAN SHALL PROVIDE A REPORT CERTIFYING THAT THE SYSTEM IS OPERATING PROPERLY UPON SUBSTANTIAL COMPLETION OF THE PROJECT.
 - THE CONTRACTOR'S BID AND INSTALLATION SHALL BE BASED ON A COMPLETE AND FUNCTIONAL INSTALLATION.
 - OCCUPANCY SENSOR LOCATIONS AND QUANTITIES ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF THE DESIGN AND ARE APPROXIMATE LOCATIONS. THE CONTRACTOR AND LIGHTING CONTROLS SUPPLIER/INSTALLER SHALL DETERMINE EXACT QUANTITIES AND LOCATIONS OF SENSORS BASED ON THE FINAL FIELD CONDITIONS DURING THE DEVELOPMENT OF THE PROJECT SHOP DRAWINGS.
 - ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF 6'-0" FROM A SUPPLY AIR DIFFUSER OR REGISTER.
 - THE CONTRACTOR AND LIGHTING CONTROLS SUPPLIER/INSTALLER ARE RESPONSIBLE FOR PROVIDING ADEQUATE ROOM CONTROLLERS AND WIRING TO PROPERLY OPERATE THE SYSTEM PER THE SEQUENCE OF OPERATIONS AND THE ZONING PLAN.
 - LOCATIONS AND QUANTITIES OF PHOTOCELLS SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR WITH THE LIGHTING CONTROLS SUPPLIER/INSTALLER PRIOR TO SUBMITTAL OF SHOP DRAWINGS BEING SUBMITTED FOR REVIEW.
 - A PRE-INSTALL MEETING SHALL BE HELD ON THE JOB SITE WITH THE OWNER/TENANT'S PROJECT MANAGER, GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR AND LIGHTING CONTROLS SUPPLIER/INSTALLER PRIOR TO ROUGH-IN OF ANY LIGHTING CONTROL COMPONENTS.

SHEET ISSUE/REV:

NO.	DESCRIPTION	DATE
-	PRE-APP MTG	10.10.18
-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19



Owner JONATHAN PITT
 Proj. Nam WANDERIST OFFICE & RETAIL

LIGHTING CONTROLS

Date 03/06/19

E201

Scale AS SHOWN

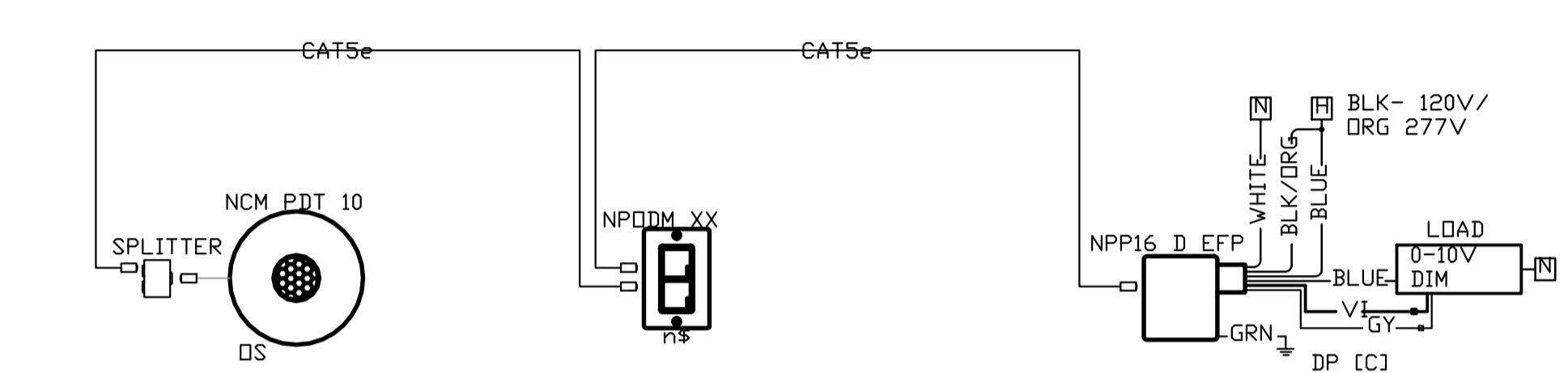
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 SDEV #1800276
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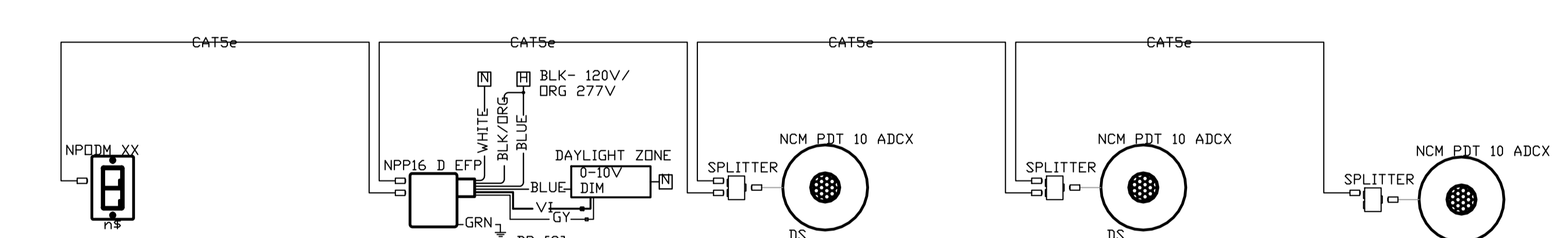
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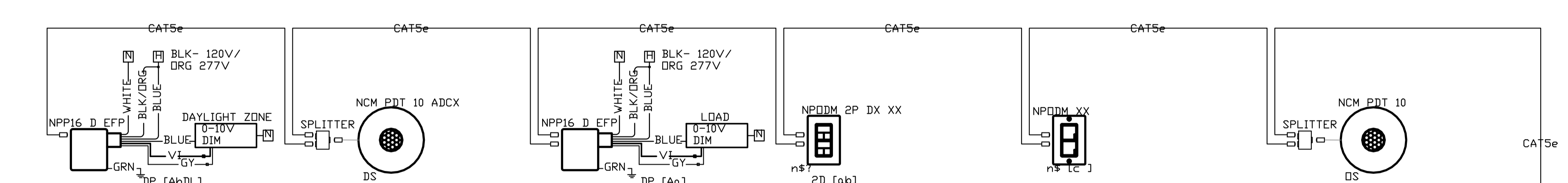
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 - PLANS ARE COMPLETE.
 - THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.



1 CORRIDOR
 NOT TO SCALE



2 PRINTING/SHIPPING
 NOT TO SCALE



3 RETAIL AREA
 NOT TO SCALE

City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

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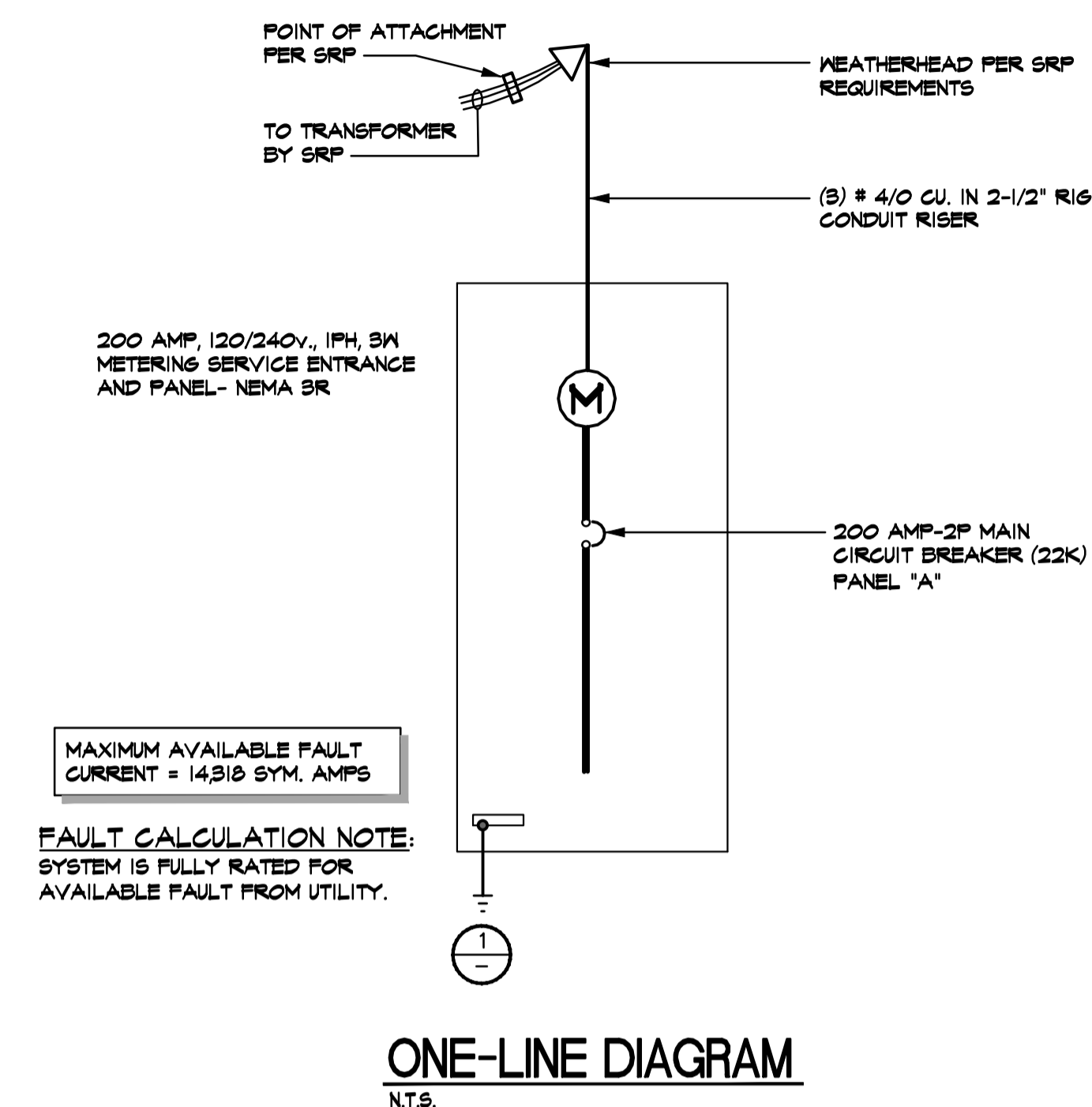
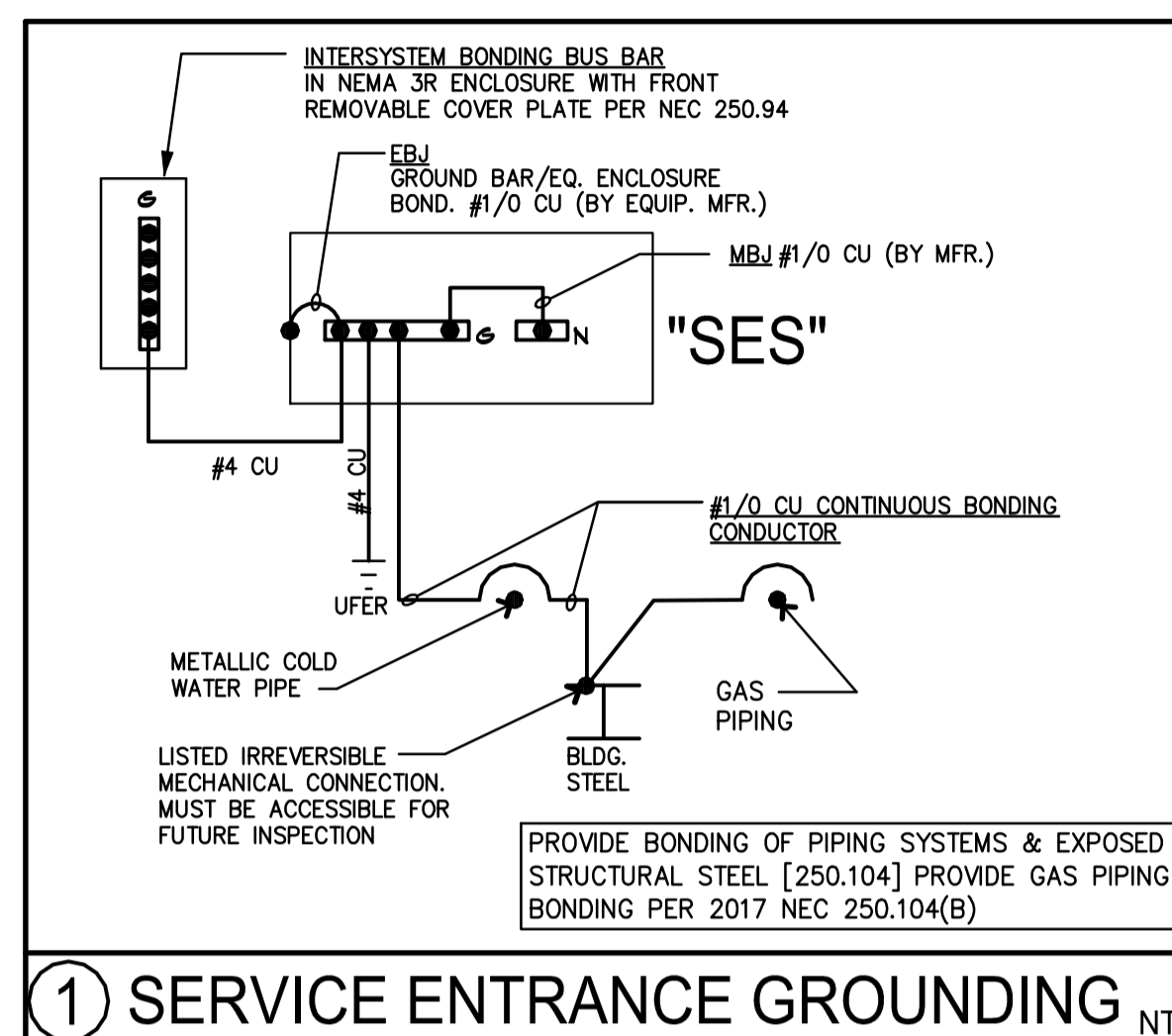
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NO.	DESCRIPTION	DATE
-	PRE-APP MTG	10.10.18
-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19

GENERAL ONE-LINE NOTES:

- (600V AND BELOW)
- VERIFY UTILITY COMPANY METERING REQUIREMENTS WITH THE UTILITY COMPANY REPRESENTATIVE BEFORE ORDERING SES AND RELATED SERVICE EQUIPMENT.
 - SUBMIT SERVICE EQUIPMENT SHOP DRAWINGS TO UTILITY COMPANY FOR ITS REVIEW AND APPROVAL PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOP DRAWING SUBMITTAL TO THE ENGINEER SHALL INCLUDE UTILITY COMPANY METERING AND SERVICE EQUIPMENT REQUIREMENTS ALONG WITH WRITTEN EVIDENCE OF THE UTILITY COMPANY'S APPROVAL OF SERVICE EQUIPMENT SHOP DRAWINGS.
 - SELECTION AND DESIGN OF SES, SWITCHGEAR, LOW-VOLTAGE DISTRIBUTION SWITCHBOARDS, AND PANEL BOARDS INDICATED HEREIN ARE BASED UPON SIEMENS. EQUIPMENT BY OTHER MANUFACTURERS LISTED IN THE SPECIFICATIONS IS ACCEPTABLE PROVIDED THE EQUIPMENT CONFORMS TO THE PROJECT-SPECIFIC SPECIFICATIONS AND ALL INDICATED SPARE DEVICES, BUSSED SPACE, AND PROVISIONS FOR FUTURE SECTIONS ARE PROVIDED. ALTERNATE OR SUBSTITUTED EQUIPMENT SHALL FIT IN THE AVAILABLE AREA SHOWN ON THE FLOOR PLANS WITH ALL NEC REQUIRED WORKING SPACE AND SAFETY CLEARANCES MAINTAINED. THE CONTRACTOR SHALL FURNISH A 1/4" SCALE SHOP DRAWING WITH HIS SUBMITTAL PROVING SUBSTITUTED EQUIPMENT FITS AS DESCRIBED HEREIN.
 - ALL PANEL BOARDS SHALL BE FULLY RATED UNLESS SPECIFICALLY INDICATED ON EITHER THE ONE-LINE DIAGRAM OR ON THE PANEL SCHEDULES THEY MAY BE 'SERIES RATED'. SERIES RATING AS REFERRED TO HEREIN MEANS THE OVERCURRENT DEVICES SHALL BE PART OF A LISTED SERIES-RATED COMBINATION WITH THE RESPECTIVE FEEDER BREAKER IN THE DISTRIBUTION PANEL IMMEDIATELY UPSTREAM FROM THE PANEL. NO DESIGN CHANGES MAY BE MADE WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE LOCAL ELECTRICAL INSPECTOR.
 - FOR EACH SERIES-RATED SWITCHBOARD OR PANELBOARD, A PERMANENT NAMEPLATE SHALL BE PROVIDED TO INDICATE THE SERIES RATING. NAMEPLATE SHALL BE ENGRAVED, 3-LAYERED LAMINATED PLASTIC WITH BLACK LETTERING ON A YELLOW BACKGROUND AND SHALL BE ATTACHED ADJACENT TO THE MANUFACTURER'S SERIES RATING LABEL. NAMEPLATE SHALL READ "CAUTION. THIS PANEL IS PART OF A SERIES COMBINATION ____KA/____KA RATED SYSTEM. AVAILABLE FAULT CURRENT AT THIS LOCATION IS ____AMPS." (REFER TO SHORT-CIRCUIT STUDY RESULTS FOR APPROPRIATE VALUE OF AVAILABLE FAULT CURRENT.) LETTERING FOR THE WORD "CAUTION" SHALL BE 3/8" HIGH AND THE REMAINING LETTERING SHALL BE 3/16".
 - SES SHALL BE SERVICE ENTRANCE RATED.
 - THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL STATE AND LOCAL SEISMIC REQUIREMENTS.



IG Bus: NO	PANEL SCHEDULE				"A"	Status: NEW	
	Cabinet: NEMA 3R	Feed Thru: NO	Service Rated: YES	Bracing: 22,000 A.I.C.			Mains: 200A, MCB
Type: BOLT-ON	Mounting: SURFACE	Voltage: 120/240V-1Ph-3W					
Use and/or Area Served	C/B	Cir. No.	Phase A	Phase B	Cir. No.	C/B	Use and/or Area Served
A LTG: FRONT RETAIL	20/1	1	1219		2	15/2	FC-1
A LTG/EM LTG: RETAIL	20/1	3	828	700	4		
A LTG/EM LTG: BOH	20/1	5	683	828	6	40/2	CU-1
RECEPT: RETAIL WEST	20/1	7	3420	540	8		
RECEPT: RETAIL EAST	20/1	9	720	3420	10	15/2	FC-2
RECEPT: OFFICE/CORR/PATIO	20/1	11	828	720	12		
RECEPT: SHIPPING	20/1	13	720	828	14	40/2	CU-2
RECEPT: TMB	20/1	15	3420	360	16		
SPARE	20/1	17	0	3420	18	15/2	FC-3
SPARE	20/1	19	828	0	20		
SPARE	20/1	21	0	828	22	50/2	CU-3
A,D LTG/EM LTG/RECEPT: TOILETS	20/1	23	4104	748	24		
IRRIGATION CONTROLLER	20/1	25	180	4104	26	40/1	IWH-1
A,D EXTERIOR LTG	20/1	27	3600	296	28	40/1	IWH-2
SPACE	-	29		3600	30	-	SPACE
SPACE	-	31			32	-	SPACE
SPACE	-	33			34	-	SPACE
SPACE	-	35			36	-	SPACE
SPACE	-	37			38	-	SPACE
SPACE	-	39			40	-	SPACE
Total Load per Phase			20549	20392	20550 VA / 120 :	171.3	Amps

PANEL SCHEDULE SYMBOLS

- A CONTINUOUS DUTY/LARGEST LOAD @125%
- B PROVIDE BREAKER WITH HANDLE "LOCK-ON" DEVICE
- C PROVIDE BREAKER WITH HANDLE "LOCK-OFF" DEVICE
- D CONTROLLED BY PHOTOCELL
- E CONTROLLED BY TIMECLOCK
- F EXISTING BREAKER WITH LOAD REMOVED
- G EXISTING BREAKER WITH NEW LOAD
- H NEW BREAKER WITH NEW LOAD
- J SHUNT-TRIP CIRCUIT BREAKER

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Owner JONATHAN PITT
Proj. Nam WANDERIST OFFICE & RETAIL

ONE-LINE DIAGRAM AND PANEL SCHEDULES

Date 03/06/19

E300

Scale AS SHOWN

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SDEV #1800276
PAPP #1806619
PRLC
QS Q16-36