



# THE WHITTIER - PHASE 1

## BOOMTOWN DEVELOPMENT COMPANY

68 NORTH LEWIS  
TULSA, OK 74110

PROJECT NO: P05093.0100

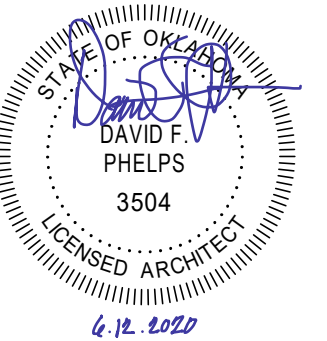
FOR PERMIT  
06/12/2020

SHEET ISSUE MATRIX		06/12/2020 PERMIT SET - PHASE 1	
SHEET NO	SHEET TITLE		
<ul style="list-style-type: none"> <li>ISSUED</li> <li>ISSUED FOR REFERENCE ONLY</li> </ul>			
<b>GENERAL</b>			
G-001	COVER SHEET	•	
G-002	GENERAL NOTES AND SYMBOLS LEGEND	•	
G-101	CODE COMPLIANCE PLANS	•	
<b>CIVIL</b>			
CD101	DEMOLITION PLAN	•	
CE101	EROSION CONTROL PLAN	•	
CE501	EROSION CONTROL DETAILS	•	
CS101	SITE PLAN	•	
CS501	SITE DETAILS	•	
CS502	SITE DETAILS	•	
CU101	UTILITY PLAN	•	
CU501	UTILITY DETAILS	•	
CG101	GRADING PLAN	•	
CG102	STOOP GRADING DETAILS	•	
<b>STRUCTURAL</b>			
S-001	NOTES, SCHEDULES AND TYPICAL DETAILS	•	
S-002	NOTES AND SCHEDULES	•	
S-003	TYPICAL DETAILS	•	
S-100	BUILDING TYPE KEY PLAN	•	
S-101	BLDG #1 - BLDG TYPE A4 FOUNDATION PLANS	•	
S-102	BLDG #2 - BLDG TYPE A4 FOUNDATION PLANS	•	
S-103	BLDG #4 - BLDG TYPE A4 - FOUNDATION PLANS	•	
S-104	BLDG #7 - BLDG TYPE A4 - FOUNDATION PLANS	•	
S-105	BLDG #9 - BLDG TYPE A4 - FOUNDATION PLAN	•	
S-106	BLDG #1, #2, #4, #7 AND #9 - BLDG TYPE A4 TYPICAL SECOND FLOOR FRAMING PLAN	•	
S-107	BLDG #1, #2, #4, #7 AND #9 - BLDG TYPE A4 - TYPICAL ROOF FRAMING PLAN	•	
S-111	BLDG #6 - BLDG TYPE A3 - FOUNDATION PLAN	•	
S-112	BLDG #6 - BLDG TYPE A3 - SECOND FLOOR FRAMING PLAN	•	
S-113	BLDG #6 - BLDG TYPE A3 - ROOF FRAMING PLAN	•	
S-501	FOUNDATION DETAILS	•	
S-502	FRAMING DETAILS	•	
<b>ARCHITECTURAL</b>			
AS101	SITE PLAN	•	
AS102	SITE DETAILS	•	
A-101	BLDG A4 - FIRST FLOOR PLAN	•	
A-102	BLDG A4 - SECOND FLOOR PLAN	•	
A-103	BLDG A4 - ROOF PLAN	•	
A-104	BLDG A4 - FIRST FLOOR REFLECTED CEILING PLAN	•	
A-105	BLDG A4 - SECOND FLOOR REFLECTED CEILING PLAN	•	
A-111	BLDG A3 - FIRST FLOOR PLAN	•	
A-112	BLDG A3 - SECOND FLOOR PLAN	•	
A-113	BLDG A3 - ROOF PLAN	•	
A-114	BLDG A3 - FIRST FLOOR REFLECTED CEILING PLAN	•	
A-115	BLDG A3 - SECOND FLOOR REFLECTED CEILING PLAN	•	
A-201	BLDG A4 - EXTERIOR ELEVATIONS	•	
A-202	BLDG A3 - EXTERIOR ELEVATIONS	•	
A-301	BUILDING SECTIONS	•	
A-310	WALL SECTIONS	•	
A-311	WALL SECTIONS	•	
A-312	WALL SECTION DETAILS	•	
A-313	CANOPY ELEVATION SECTIONS AND DETAILS BLDG A4 FRONT	•	
A-314	CANOPY ELEVATION SECTIONS AND DETAILS BLDG A4 REAR	•	
A-315	CANOPY ELEVATION SECTIONS AND DETAILS BLDG A3 FRONT	•	
A-316	CANOPY ELEVATION SECTIONS AND DETAILS BLDG A3 REAR	•	
A-401	ENLARGED UNIT A1 FIRST FLOOR PLANS	•	
A-402	ENLARGED UNIT A1 SECOND FLOOR PLANS	•	
A-403	STAIR PLAN AND SECTIONS	•	
A-501	INTERIOR DETAILS AND SCHEDULES	•	
A-502	MILLWORK DETAILS	•	
A-601	DOOR AND FRAME SCHEDULE, WINDOW TYPES, PARTITION TYPES	•	
<b>FIRE PROTECTION</b>			
FX001	FIRE SUPPRESSION NOTES AND DETAILS	•	
FX101	FIRE SUPPRESSION SITE PLAN	•	
FX401	ENLARGED UNIT A-1 FIRE SUPPRESSION PLANS	•	
FX402	ENLARGED UNIT A-1.1 FIRE SUPPRESSION PLANS	•	
<b>PLUMBING</b>			
P-001	PLUMBING NOTES, LEGENDS, AND ABBREVIATIONS	•	
P-101	PLUMBING SITE PLAN	•	
P-102	BUILDING A3 SANITARY PLAN	•	
P-103	BUILDING A3 SANITARY PLAN	•	
P-401	ENLARGED A UNITS DOMESTIC WATER & GAS PLANS	•	
P-501	PLUMBING DETAILS	•	
P-502	PLUMBING DETAILS	•	
P-601	PLUMBING SCHEDULES	•	

SHEET ISSUE MATRIX		06/12/2020 PERMIT SET - PHASE 1	
SHEET NO	SHEET TITLE		
<ul style="list-style-type: none"> <li>ISSUED</li> <li>ISSUED FOR REFERENCE ONLY</li> </ul>			
<b>MECHANICAL</b>			
M-001	MECHANICAL LEGENDS AND ABBREVIATIONS	•	
M-002	MECHANICAL NOTES	•	
M-101	MECHANICAL SITE PLAN	•	
M-401	ENLARGED UNIT A-1.1 HVAC PLANS	•	
M-402	ENLARGED UNIT A-1.1 HVAC PLANS	•	
M-501	MECHANICAL DETAILS	•	
M-601	MECHANICAL SCHEDULES	•	
<b>ELECTRICAL</b>			
E-001	NOTES, LEGENDS, AND ABBREVIATIONS	•	
ES101	ELECTRICAL SITE PLAN	•	
E-401	ENLARGED UNIT A-1.1 ELECTRICAL PLANS	•	
E-402	ENLARGED UNIT A-1.1 ELECTRICAL PLANS	•	
E-501	ONE-LINE DIAGRAM	•	
E-601	RESIDENTIAL LOAD CALCULATIONS	•	



810 SOUTH CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000  
www.cyntergy.com



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK, CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

PROJECT NO: P05093.0100  
FOR PERMIT  
06/12/2020

OWNER  
BOOMTOWN DEVELOPMENT  
COMPANY  
6235 E 13th STREET  
TULSA, OK 74112  
  
CONTACT  
ANTHONY FADDIS  
918.822.1998  
afaddis@tulsahabitat.org

PROJECT MANAGER  
LINDSAY REEDS  
CYNTERGY  
810 S CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000  
lreeds@cyntergy.com

CIVIL ENGINEER  
ROBERT L. DAY, PE  
CYNTERGY  
810 S CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000

STRUCTURAL ENGINEER  
LARRY L. VORBA, PE  
CYNTERGY  
810 S CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000

ARCHITECT  
DAVID F. PHELPS, AIA  
CYNTERGY  
810 S CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000

FIRE PROTECTION ENGINEER  
JAMES ROY SPRADLING, PE  
CYNTERGY  
810 S CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000

MECHANICAL ENGINEER  
W. TODD LESTER, PE  
CYNTERGY  
810 S CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000

ELECTRICAL ENGINEER  
CHRISTOPHER A. HARWELL, PE  
CYNTERGY  
810 S CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000

## GENERAL NOTES

### GENERAL DESCRIPTION OF THE PROJECT:

THE PROJECT IS LOCATED AT KENDALL-WHITTIER DISTRICT BETWEEN NORTH GILLETTE AVE AND NORTH LEWIS AVE AND EAST ADMIRAL PLACE IN TULSA, OKLAHOMA. THE NEW SINGLE-FAMILY DEVELOPMENT PROJECT CONSISTS OF (23) TWO-STORY UNITS. THE TWO-STORY RESIDENTIAL UNIT AREA IS APPROXIMATE 1,920 SF EACH FOR A TOTAL GROSS AREA OF 44,160 SF APPROXIMATELY. PHASE 1 CONSISTS OF (8) TWO-STORY UNITS. PHASE 2 CONSISTS OF (15) TWO-STORY UNITS. REFER TO SITE PLAN AS101.

THE SITE WILL BE COMPRISED OF (8) BUILDINGS WITH 10' SEPARATION BETWEEN THEM, THE BUILDINGS ARE AS FOLLOWS:

- (5) BUILDINGS WITH (4) TWO-STORY RESIDENTIAL UNITS. ((2) BUILDINGS BUILT IN PHASE 1, (3) BUILDINGS BUILT IN PHASE 2. REFER TO SITE PLAN AS101.)
- (1) BUILDING WITH (3) TWO-STORY RESIDENTIAL UNITS (PHASE 2)
- (1) BUILDING WITH (4) ONE-STORY ACCESSIBLE RESIDENTIAL UNITS (BY OTHERS).
- (1) BUILDING WITH (2) ONE-STORY ACCESSIBLE RESIDENTIAL UNITS (BY OTHERS).

THE SITE WILL HAVE AN INTERNAL STREET WITH ACCESS FROM NORTH GILLETTE AVENUE AND NORTH LEWIS AVENUE TO THE GARAGE FOR EACH TWO-STORY UNITS AND ACCESSIBLE PARKING FOR ONE-STORY UNITS.

REFER TO CIVIL DRAWINGS FOR EXTENDS OF SITE WORK INCLUDED IN PHASE 1, AND PHASE 2.

### GENERAL NOTES:

1. HORIZONTAL PLANE DIMENSIONS ARE GIVEN TO FACE OF STUD UNLESS NOTED OTHERWISE. DIMENSIONS GIVEN TO FACE OF FINISH MATERIAL ARE NOTED "CLEAR".
2. LARGE SCALE DETAILS AND PLANS TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
3. COORDINATE AND VERIFY ALL DIMENSIONS, OPENINGS AND CONDITIONS WITH CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND ALL OTHER PERTINENT DRAWINGS AND TRADES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF DISCREPANCIES AS SOON AS POSSIBLE.
4. DO NOT SCALE DRAWINGS.
5. FOR ALL DETAILS THAT ARE TYPICAL, INCORPORATE INTO PROJECT AT APPROPRIATE LOCATIONS WHETHER SPECIFICALLY INDICATED OR NOT.
6. ALL DOORS ARE LOCATED 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE ON PLANS.
7. REFER TO SHEET A-601 FOR PARTITION AND ASSEMBLY TYPES.
8. THE DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY DOCUMENTS. CONFLICTS IN SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION.
9. THIS SET OF DRAWINGS INDICATES GENERAL SCOPE OF THE PROJECT. THE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT. ON BASIS OF SCOPE INDICATED OR DESCRIBED, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR PROPER EXECUTION AND COMPLETION OF THE WORK.
10. ALL CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF APPLICABLE LOCAL, STATE AND FEDERAL CODES OR REGULATIONS.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES BEFORE PROCEEDING WITH EXCAVATION, TRENCHING OR SIMILAR WORK. THESE DRAWINGS DO NOT CERTIFY THE EXISTENCE OF UTILITIES WHICH MAY BE PRESENT BUT UNRECORDED OR UNDETECTED.
12. PROVIDE LINTELS OR HEADERS AS REQUIRED OR INDICATED OVER OPENINGS PENETRATED BY MECHANICAL EQUIPMENT.
13. PROVIDE MIN. 2X6 TREATED WOOD OR STEEL PLATE BLOCKING BETWEEN STUDS AT MOUNTING LOCATIONS FOR TOILET ACCESSORIES, HANDRAILS, GUARDRAILS, MILLWORK AND OTHER WALL MOUNTED ITEMS IN COMPLIANCE WITH CODE REQUIREMENTS.
14. BUILDING IS TO BE FULLY SPRINKLED IN ACCORDANCE WITH NFPA 13R.
15. PROVIDE SECURE AND PERMANENT ANCHORAGE FOR CEILING FURRING AND OTHER CEILING MOUNTED ITEMS.
16. PROTECT TREES TO REMAIN FROM DAMAGE DURING CONSTRUCTION.
17. PROVIDE FIRE STOPPING AND SMOKE SEALANT AT ALL PENETRATIONS OF WALLS AND FLOORS AS INDICATED IN PROJECT SPECIFICATIONS.
18. ALL SUBSTITUTIONS OF MATERIALS AND ASSEMBLIES MUST BE APPROVED BY ARCHITECT IN ACCORDANCE WITH CONTRACT DOCUMENTS.
19. CONTRACTOR IS REQUIRED TO PROVIDE CONTROL AND EXPANSION JOINTS IN ALL ASSEMBLIES PER SPECIFICATIONS. VERIFY WITH ARCHITECT ALL LOCATIONS PRIOR TO CONSTRUCTION.
20. ALL PIPING, DUCTWORK AND CONDUIT IS TO BE CONCEALED UNLESS NOTED OTHERWISE.
21. CONTRACTOR SHALL MAINTAIN SITE DRAINAGE DURING CONSTRUCTION.
22. CONTRACTOR SHALL MAINTAIN A CLEAN AND SECURE SITE AS REQUIRED BY CONTRACT DOCUMENTS AND OWNER DIRECTIVES. TEMPORARY WALKWAYS ON EXISTING SIDEWALKS MUST BE MAINTAINED FOR PASSAGE.
23. SPRINKLER HEADS ARE NOT SHOWN ON REFLECTED CEILING PLANS, HOWEVER, ALL AREAS SHALL BE SPRINKLED AS REQUIRED BY NFPA 13R. CONTRACTOR SHALL SUBMIT BRANCH DISTRIBUTION AND HEAD LOCATIONS TO ARCHITECT FOR REVIEW, PRIOR TO INSTALLATION.
24. VERIFY THE FOLLOWING WITH THE RESPECTIVE TRADES:
  - A. SIZES AND LOCATIONS FOR BACKING/BLOCKING REQUIRED FOR MOUNTING MECH. ELEC. EQUIPMENT, AND ALL OTHER SUBS REQUIRING BACKING/BLOCKING.
  - B. SIZES AND LOCATIONS OF MECH. AND/OR ELECTRICAL PENETRATIONS.
  - C. CUTTING AND PATCHING FOR WORK REQUIRED BY MECH. AND/OR ELEC.
25. HOT WATER LINES AND DRAIN LINES UNDERNEATH ACCESSIBLE SINKS SHALL BE PROTECTED PER CODE REQUIREMENTS.
26. EXPOSED ENDS OF ALL PROJECTING ELEMENTS SUCH AS SILLS, LEDGES & SIMILAR COMPONENTS FABRICATED IN METAL, STONE & OTHER MATERIALS SHALL BE FINISHED SAME AS FACE.
27. PROVIDE ACCESS PANEL PLAN FOR APPROVAL BY ARCHITECT AND MECHANICAL ENGINEER PRIOR TO INSTALLATION.

## GENERAL NOTES - CIVIL

### GENERAL NOTES

- A. THE CONTRACTOR SHALL CONTACT "OKIE" AT 811 OF 800-522-6543, THREE (3) WORKING DAYS BEFORE BEGINNING ANY WORK, SO EXISTING UNDERGROUND UTILITIES MAY BE LOCATED AND MARKED.
- B. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR RAZING AND REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED.
- D. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- E. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- F. ALL CONSTRUCTION IN STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT RESIDENT MAINTENANCE ENGINEER. THE MOST CURRENT AND UP-TO-DATE SPECIFICATIONS AND DETAILS, ADOPTED BY GOVERNING DEPARTMENT OF TRANSPORTATION SHALL GOVERN ON THIS PROJECT.
- G. ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE RELEVANT UTILITY COMPANY OR REGULATORY AUTHORITY, AND THE SPECIFICATIONS FOR THE CONSTRUCTION OF THE EXISTING IMPROVEMENTS, WHICH ARE BEING ALTERED OR REPLACED. THE CONTRACTOR SHALL CONTACT, IF DEEMED NECESSARY, THE ENGINEER FOR ADDITIONAL LANDSCAPING AND/OR IRRIGATION INFORMATION AND DETAILS REQUIRED TO COMPLETE THE WORK DETAILED IN THESE PLANS.

### WETLANDS NOTICE

ANY DEVELOPMENT, EXCAVATION, CONSTRUCTION, OR FILLING IN A U.S. CORPS OF ENGINEERS DESIGNATED WETLAND IS SUBJECT TO LOCAL, STATE AND FEDERAL APPROVALS. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND/OR RESTRICTIONS AND ANY VIOLATION WILL BE SUBJECT TO FEDERAL PENALTY. THE CONTRACTOR SHALL HOLD THE OWNER/ DEVELOPER, THE ENGINEER AND THE LOCAL GOVERNING AGENCIES HARMLESS AGAINST SUCH VIOLATION.

### WARRANTY/DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

### FLOOD CERTIFICATION

THIS PROPERTY LIES IN ZONE "X", "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", ACCORDING TO GRAPHICAL PLOTTING ON FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 20045C0159D, EFFECTIVE DATE AUGUST 5, 2010.

### BENCH MARK

CHISELED BOX ON CONCRETE CURB, NORTH WEST QUADRANT OF EAST ARCHER AND N. GILLETTE AVE, HORIZONTAL = N 429556.302, E 2570769.087, ELEVATION = 761.59.

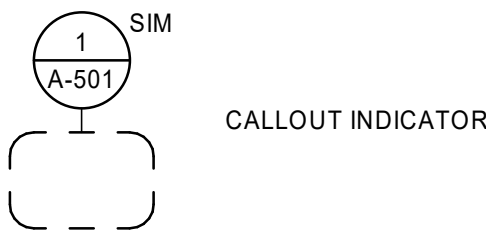
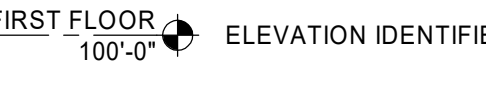



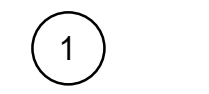
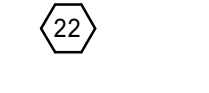
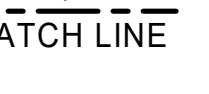

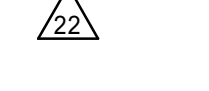
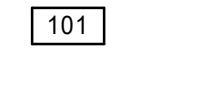
### LEGAL DESCRIPTION

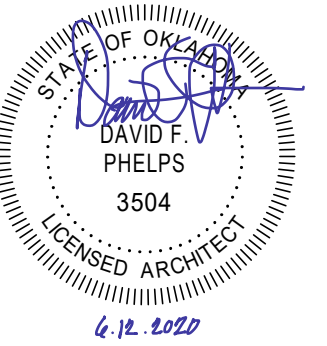
PART OF LOTS 1-20 AND 31-50, BLOCK 4, EASTLAND ADDITION IN SECTION SIX (6), TOWNSHIP NINETEEN (19) NORTH, RANGE THIRTEEN (13) EAST, TULSA COUNTY, STATE OF OKLAHOMA.

### UTILITY COORDINATION

ENGINEERING SERVICES DEPARTMENT	918-596-9649
WASTEWATER DESIGN	918-596-2568
OKLAHOMA NATURAL GAS	918-831-8223
AT&T TELEPHONE	918-596-4237
AEP,PSO	918-250-6257
MCI	888-624-5622
WINDSTREAM	918-451-3406
COX COMMUNICATIONS	918-286-4716
EASYTEL COMMUNICATIONS	918-523-8025

## SYMBOLS LEGEND

 <p>CALLOUT INDICATOR</p>  <p>ELEVATION IDENTIFIER</p>  <p>EXTERIOR ELEVATION INDICATOR</p>  <p>INTERIOR ELEVATION INDICATOR</p>  <p>SECTION IDENTIFIER</p>	 <p>GRID INDICATOR</p>  <p>KEYNOTE INDICATOR</p> <p>SEE X/X-XXX MATCH LINE</p>  <p>MATCH LINE INDICATOR</p> <p>TRUE NORTH</p>  <p>CAN INDICATE PLAN OR TRUE NORTH</p> <p>NORTH INDICATOR</p>  <p>REVISION INDICATOR</p> <p>ROOM NAME</p>  <p>ROOM IDENTIFIER</p>
--	--



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

### STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
**BOOMTOWN DEVELOPMENT COMPANY**  
 68 NORTH LEWIS  
 TULSA, OK 74110

### ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
	06/12/2020	PERMIT SET - PHASE 1

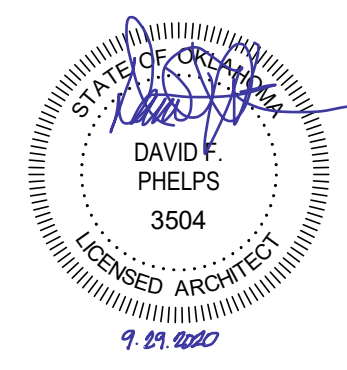
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: JGF

### SHEET NAME

GENERAL NOTES AND SYMBOLS LEGEND

### SHEET NUMBER

**G-002**



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

THE WHITTIER - PHASE 1  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1
2	09/09/2020	PERMIT COMMENTS
3	09/29/2020	PERMIT COMMENTS

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100

CHECKED BY: LFG  
DRAWN BY: CCW

SHEET NAME:  
CODE COMPLIANCE PLANS

SHEET NUMBER:  
**G-101**

### LIFE SAFETY LEGEND

ROOM OCCUPANCY INDICATOR

ROOM NUMBER	ROOM NAME	ROOM AREA
101		1,500 SF
OCCUPANT LOAD FACTOR		100 15

OCCUPANT LOAD

1 HR RATED PARTITION

PATH OF TRAVEL

FEC FIRE EXTINGUISHER CABINET

Figure 141

**STC-51** **NGC 2191**

Framing: Double row 2x6 wood studs, 16" o.c.  
Insulation: 3-1/2" glass fiber one side  
Side 1: 5/8" Fire-Shield Gypsum Board  
Side 2: 5/8" Fire-Shield Gypsum Board  
UL Design: U341 - 1 hour

### CODE REVIEW

Applicable Codes:

- 2015 International Residential Code
- ICC/ANSI A117.1 2009 Accessible and Usable Buildings and Facilities
- 1998 Fair Housing Act Accessibility requirements
- 1973 Uniform Federal Accessibility Standards (UFAS) Section 504

Use and Occupancy Classification:

- Residential, Townhouses (Section R302.2)

General Building Information:

- Residential Townhouses.
- Fire sprinkler system will be provided; refer to Fire Protection narrative for more information.
- Common wall 1-HR fire rated with sprinklers system (UL U341).
- Roof covering basis of design is Tamko Heritage Premium Shingles with a Class A fire resistance.

General Building Height and Areas:

- One-story townhouse is 19'-8" height and 926 SF each (approximate net area)
- Two-story townhouse is 29'-8" height and 1,590 SF each (approximate net area)

**IRC 2015**

**R302.2 TOWNHOUSES:**  
Sprinkler each unit or not per section P2904.  
Common wall 1hr rated with sprinklers OR 2hr rated without sprinklers.  
NO plumbing or mechanical equipment ducts or vents in the cavity of common wall.  
Electrical installation per chapter 34-43.  
Electrical outlet boxes on common walls per section R302.4.

**R302.2.1 CONTINUITY**  
Rated wall shall extend from foundation to underside of roof sheathing.

**R302.2.2 PARAPETS FOR TOWNHOUSES**  
Exception:  
No parapet required if roof covering complies with class C rating per astrm E108 or UL790 AND roof decking is non-combustible/fire-retardant-treated wood for 4" on each side.  
OR (1) Layer of 5/8" gyp bd type X installed directly beneath the roof decking SUPPORTED BY NOMINAL 2" ledgers attached to the sides of the roof framing members for 4" on each side.

**R302.2.4 STRUCTURAL INDEPENDENCE**  
Each individual townhouse shall be structurally independent

Exceptions:

- Foundations supporting exterior walls or common walls.
- Structural roof and wall sheathing from each unit fastened to the common wall framing.
- Nonstructural wall and roof coverings.
- Flashing at termination of roof covering over common wall.
- Townhouses separated by a common wall as provided in section R302.2 item 1 (1-hr wall with sprinkler) or 2 (2-hr wall without sprinkler).

**R302.5 DWELLING-GARAGE OPENING AND PENETRATION PROTECTION**  
**R302.5.1 OPENING PROTECTION**  
Opening from a private garage directly into a room used for sleeping purposes shall not be permitted.  
Other opening between the garage and residence shall be equipped with solid wood door not less than 1-3/8" thick OR solid/honeycomb-core steel doors 1-3/8" thick OR 20-min fire-rated door equipped with self-closing device.

**R302.5.2 DUCT PENETRATION**  
Ducts in the garage and ducts penetrating the walls or ceiling separating the dwelling from the garage shall be constructed of a minimum No.26 gauge sheet steel and shall NOT have opening into the garage.

**R302.5.3 OTHER PENETRATIONS**  
Penetrations through the separation required in section R302.6 shall be protected as required by section R302.11 item 4.

**R302.6 DWELLING-GARAGE FIRE SEPARATION**  
From the residence and attics - not less than 1/2" gyp bd applied on garage side.  
From habitable rooms above the garage - not less than 5/8" type X gyp bd.

**R302.7 UNDER-STAIR PROTECTION**  
Enclosed accessible space under stairs shall have walls, under-stair surface and any soffit protected on the enclosed side with 1/2" gyp bd.

**R302.11 FIREBLOCKING**  
Fireblocking shall be provided in wood-framed construction in the following locations:

- In concealed spaces of stud walls and partitions, included furred spaces and parallel row of studs or staggered studs as follows:
  - Vertically at the ceiling and floor levels.
  - Horizontally at intervals not exceeding 10 feet.
- At interconnections between concealed vertical and horizontal spaces such as occur at soffit, drop ceilings and cove ceilings.
- In concealed spaces between stair stringers at the top and bottom of the run Enclosed spaces under stair shall comply with section R302.7.
- At opening around vents, pipes, ducts, cables and wires at ceiling and floor level.

**R302.11.1 FIREBLOCKING MATERIAL**  
Refer to section.

**R302.12 DRAFTSTOPPING**  
Concealed space of a floor-ceiling assembly draftstops shall be installed so that the area of the concealed space do not exceed 1,000 SF.  
Draftstopping shall be provided in floor-ceiling assemblies under the following circumstances:

- Ceiling is suspended under the floor framing
- Floor framing is constructed of truss-type open-web or perforated members.

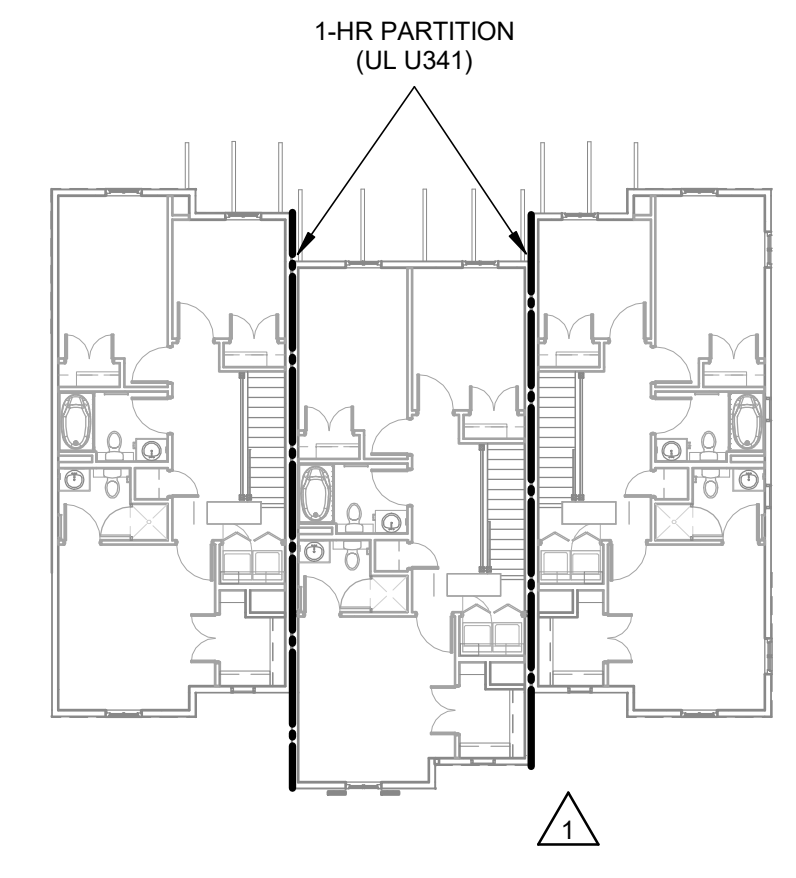
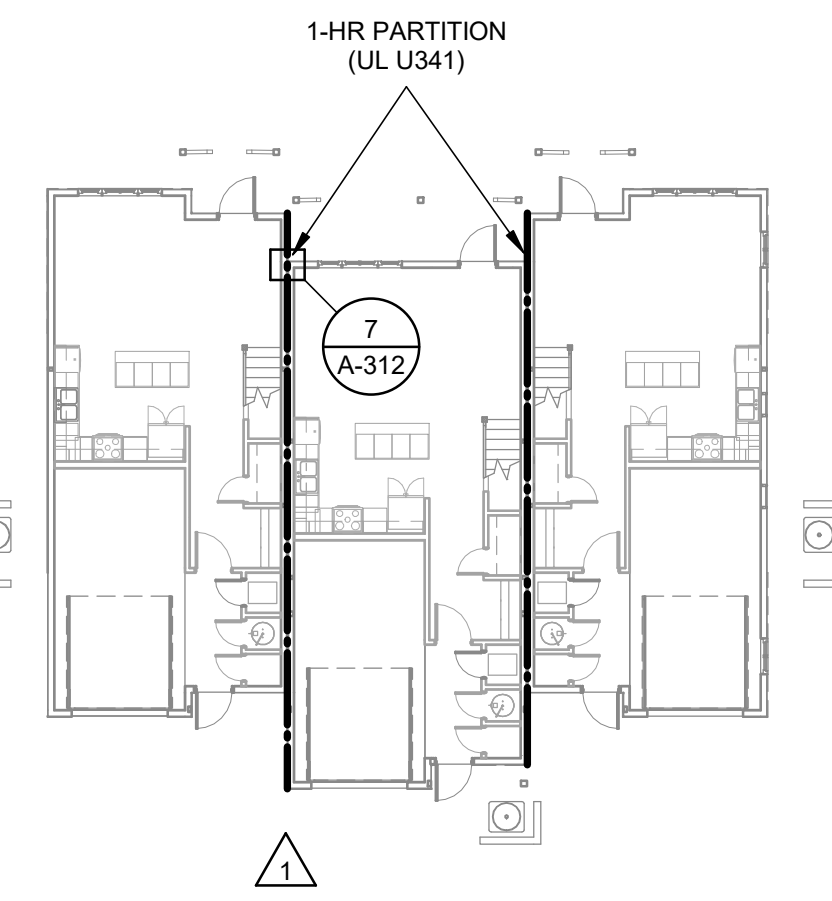
**R302.12.1 MATERIALS**  
Shall be not less than 1/2" gyp bd OR 3/8" wood structural panels.

**R313 AUTOMATIC FIRE SPRINKLER SYSTEMS**  
**R313.1 TOWNHOUSE AUTOMATIC FIRE SPRINKLER SYSTEM**  
**An automatic residential fire sprinkler system shall be installed in townhouses.**  
Exception: shall not be required where additions or alteration are made to existing townhouses that do not have an automatic residential fire sprinkler system installed.

**R313.1.1 DESIGN AND INSTALLATION**  
Designed and installed in accordance with section P2904 or NFPA13D.

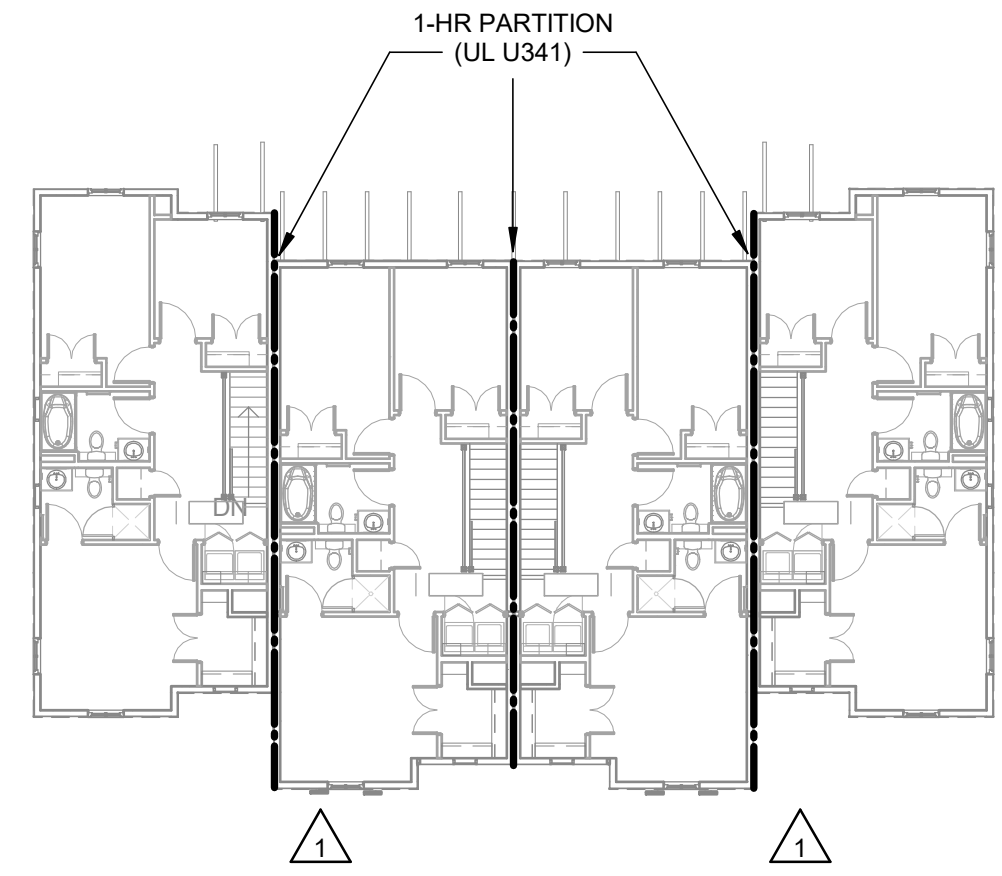
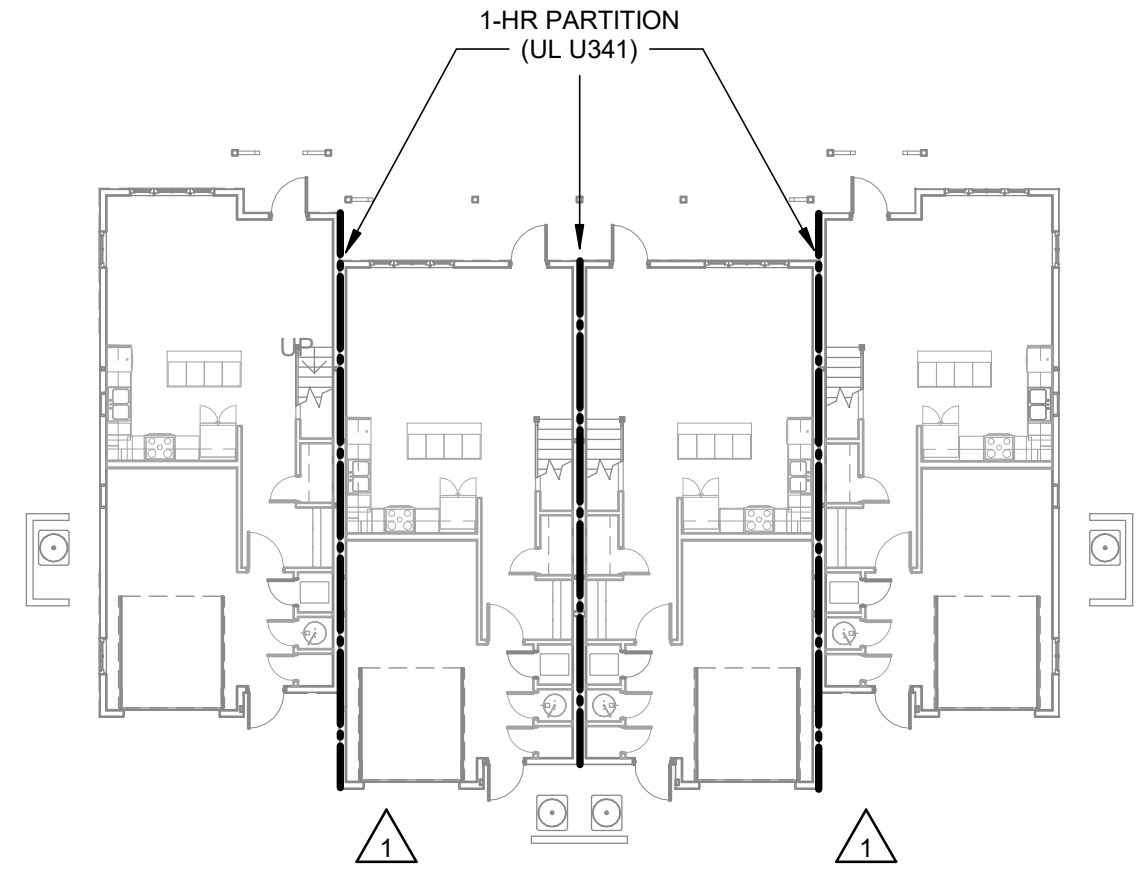
**R314 SMOKE ALARMS**  
**R314.1 GENERAL**  
Smoke alarms shall comply with NFPA72 and section R314.

**R315 CARBON MONOXIDE ALARMS**  
**R315.2.1 NEW CONSTRUCTION**  
The dwelling unit contains a fuel-fired appliance  
The dwelling unit has an attached garage with an opening that communicates with the dwelling unit.



**1** BLDG A3 - FIRST FLOOR PLAN - CODE PHASE 2  
1/16" = 1'-0"

**2** BLDG A3 - SECOND FLOOR PLAN - CODE PHASE 2  
1/16" = 1'-0"



**3** BLDG A4 - FIRST FLOOR PLAN - CODE PHASE 1 AND PHASE 2  
1/16" = 1'-0"

**4** BLDG A4 - SECOND FLOOR PLAN - CODE PHASE 1 AND PHASE 2  
1/16" = 1'-0"

NORTH GILLETTE AVENUE (60' ROW)

BENCHMARK No. 1  
CHISELED BOX ON CONCRETE CURB,  
NORTH WEST QUADRANT OF EAST  
ARCHER AND N. GILLETTE AVE  
N 429556.302, E 2570769.087  
ELEVATION = 761.59

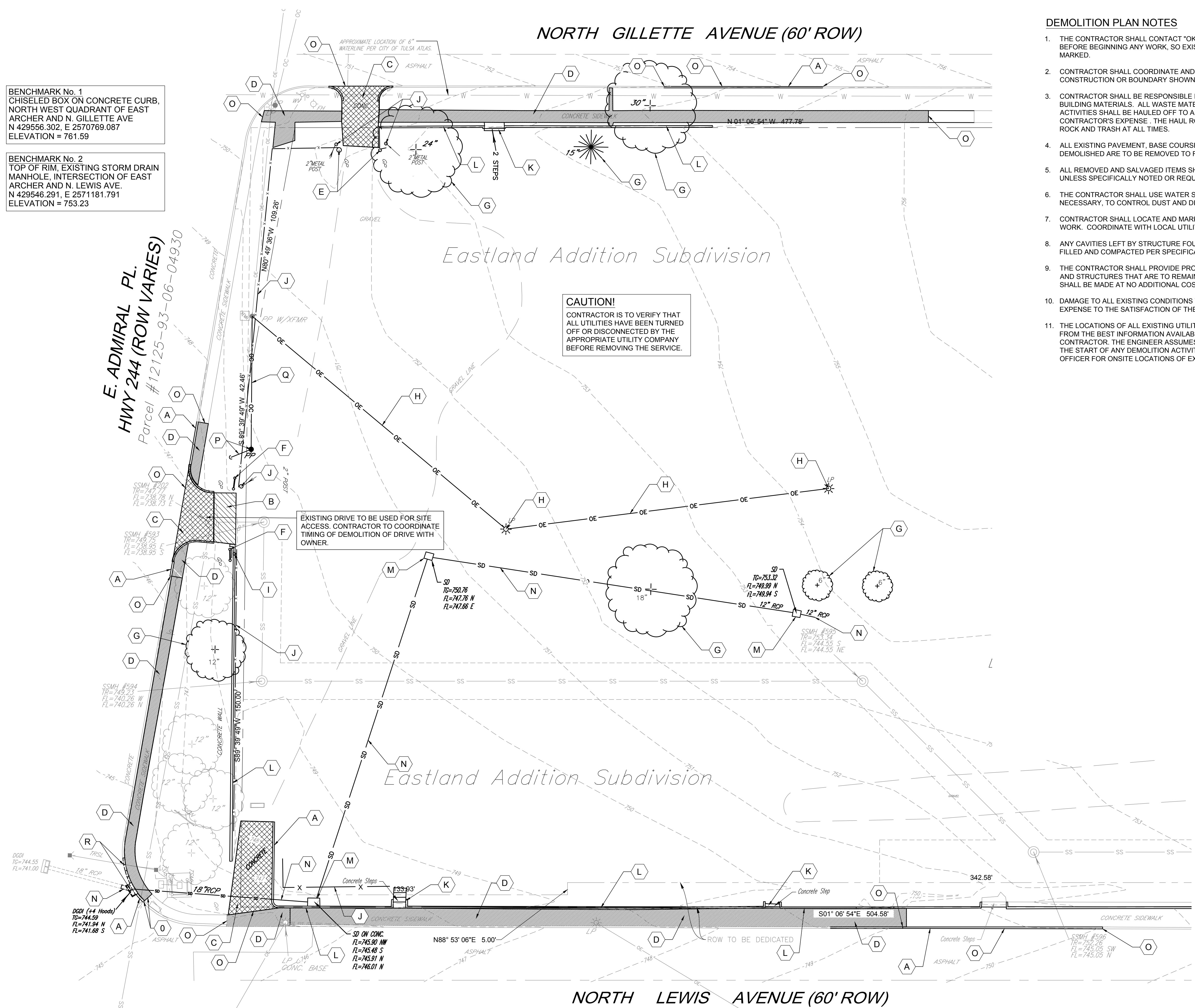
BENCHMARK No. 2  
TOP OF RIM, EXISTING STORM DRAIN  
MANHOLE, INTERSECTION OF EAST  
ARCHER AND N. LEWIS AVE.  
N 429546.291, E 2571181.791  
ELEVATION = 753.23

E. ADMIRAL PL.  
HWY 244 (ROW VARIES)  
Parcel #12125-93-06-04930

Eastland Addition Subdivision

**CAUTION!**  
CONTRACTOR IS TO VERIFY THAT  
ALL UTILITIES HAVE BEEN TURNED  
OFF OR DISCONNECTED BY THE  
APPROPRIATE UTILITY COMPANY  
BEFORE REMOVING THE SERVICE.

EXISTING DRIVE TO BE USED FOR SITE  
ACCESS. CONTRACTOR TO COORDINATE  
TIMING OF DEMOLITION OF DRIVE WITH  
OWNER.



DEMOLITION PLAN NOTES

1. THE CONTRACTOR SHALL CONTACT "OKIE" AT 811 OR 800-522-6543, THREE (3) WORKING DAYS BEFORE BEGINNING ANY WORK, SO EXISTING UNDERGROUND UTILITIES MAY BE LOCATED AND MARKED.
2. CONTRACTOR SHALL COORDINATE AND STAGE ALL WORK WITHIN THE LIMITS OF CONSTRUCTION OR BOUNDARY SHOWN ON PLANS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL TRASH AND BUILDING MATERIALS. ALL WASTE MATERIAL GENERATED BY CONSTRUCTION OR DEMOLITION ACTIVITIES SHALL BE HAULED OFF TO A LEGAL DUMP SITE AND DEPOSITED AT THE CONTRACTOR'S EXPENSE. THE HAUL ROUTE SHALL BE MAINTAINED FREE OF DEBRIS, MUD, ROCK AND TRASH AT ALL TIMES.
4. ALL EXISTING PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, FOUNDATION, ETC., TO BE DEMOLISHED ARE TO BE REMOVED TO FULL DEPTH.
5. ALL REMOVED AND SALVAGED ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OR REQUESTED BY THE CONTRACTING OFFICER.
6. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS, AS NECESSARY, TO CONTROL DUST AND DIRT CAUSED BY DEMOLITION WORK.
7. CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO COMMENCING THE WORK. COORDINATE WITH LOCAL UTILITY COMPANIES PRIOR TO UTILITY DISCONNECTS.
8. ANY CAVITIES LEFT BY STRUCTURE FOUNDATIONS OR TREE STUMP REMOVAL SHALL BE BACK FILLED AND COMPACTED PER SPECIFICATIONS.
9. THE CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, FENCES, TREES, UTILITIES AND STRUCTURES THAT ARE TO REMAIN. REPAIRS NECESSITATED BY CONTRACTOR DAMAGE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
10. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CONTRACTING OFFICER.
11. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER FOR ONSITE LOCATIONS OF EXISTING UTILITIES.

DEMOLITION KEY NOTES

- A REMOVE CONCRETE CURB & GUTTER
- B REMOVE ASPHALT PAVEMENT
- C REMOVE CONCRETE PAVEMENT
- D REMOVE CONCRETE SIDEWALK
- E REMOVE PIPE BOLLARDS
- F REMOVE STEEL POSTS
- G REMOVE TREE
- H REMOVE LIGHT POLE, CONDUIT, WIRE & OTHER MISC ITEMS ASSOCIATED WITH THE LIGHT POLES
- I REMOVE SIGN
- J REMOVE FENCE AND FENCE POSTS
- K REMOVE CONCRETE STEPS
- L REMOVE RETAINING WALL
- M REMOVE STORM DRAIN INLET
- N REMOVE CONCRETE STORM DRAIN & PLUG PIPE
- O SAW CUT, FULL DEPTH
- P REMOVE POWER POLE, GUY WIRES
- Q REMOVE OVERHEAD CABLE

HATCH LEGEND

- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING CONCRETE SIDEWALK



810 SOUTH CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000  
www.cynergy.com



ROBERT L. DAY, P.E.  
ENGINEER OF RECORD

THE WHITTIER - PHASE 1  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION

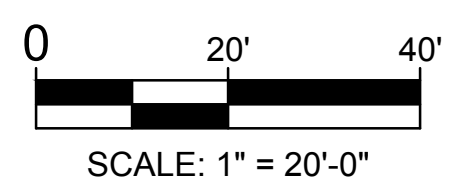
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: SAT  
DRAWN BY: CDC

SHEET NAME  
DEMOLITION PLAN

SHEET NUMBER



1 DEMOLITION PLAN  
SCALE: 1" = 20'





ROBERT L. DAY, P.E.  
ENGINEER OF RECORD

**EROSION CONTROL PLAN NOTES**

1. THE CONTRACTOR SHALL CONTACT "OKIE" AT 811 OR 800-522-6543, THREE (3) WORKING DAYS BEFORE BEGINNING ANY WORK, SO EXISTING UNDERGROUND UTILITIES MAY BE LOCATED AND MARKED.
2. THE EROSION CONTROL PLAN WILL INCORPORATE EROSION CONTROL MEASURES AND TECHNIQUES TO PREVENT SEDIMENT AND ERODED SOIL FROM LEAVING THE SITE EITHER IN THE EXISTING STORM DRAIN SYSTEM OR ONTO ADJACENT PRIVATE AND PUBLIC PROPERTY. CONSTRUCT TEMPORARY EROSION CONTROL SYSTEMS AS SHOWN ON THE PLANS TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION AND SEDIMENTATION. CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER AT ONCE IF SITE CONDITIONS WARRANT ADDITIONAL EROSION CONTROL MEASURES. CONTRACTOR IS RESPONSIBLE FOR TAKING IMMEDIATE ACTION TO REMEDY EROSION CONTROL MEASURES WHILE ENGINEER IS PREPARING RESPONSE.
3. ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY GROUND DISTURBING ACTIVITIES.
4. THE APPROPRIATE EROSION CONTROL DEVICE(S) SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. SILT FENCE SHOWN ON PLANS IS A SUGGESTED LAYOUT. IF CONDITIONS WARRANT, THE CONTRACTOR MAY SUBMIT AN ALTERNATE EROSION CONTROL PLAN TO THE CONSULTING ENGINEER FOR APPROVAL.
5. SEDIMENT COLLECTED BEHIND THE SILT FENCES OR SEDIMENT BARRIER SHALL BE REMOVED WHEN SEDIMENT REACHES ONE THIRD THE HEIGHT OF THE BARRIER.
6. SEDIMENT FILTERS AND SILT FENCES SHALL BE INSPECTED AND MAINTAINED NO LESS THAN WEEKLY AND/OR WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT IS NOT LIMITED TO SEDIMENT REMOVAL, BARRIER REPAIR AND/OR REPLACEMENT.
7. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PERIODICALLY WATER THE SITE TO CONTROL DUST.
8. SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED FOLLOWING CONSTRUCTION OR UPON PERMANENT STABILIZATION OF THE DISTURBED AND GRADED AREAS, WHICHEVER OCCURS LAST.
9. ALL DISTURBED GRASS AREAS WITHIN THE CONSTRUCTION AREA SHALL BE REPAIRED OR REPLACED AND SHALL MEET OR EXCEED PRE DEVELOPMENT CONDITIONS.
10. THE SILT FENCE SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION AND DEBRIS REMOVAL HAS BEEN COMPLETED AND PERMANENT EROSION CONTROL MEASURES ARE IN PLACE.
11. ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAYS SHALL BE REMOVED IMMEDIATELY.
12. SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES AND CATCH BASINS. STOCKPILES SHALL BE ADEQUATELY CONTAINED THROUGH THE USE OF SEEDING, MULCH OR SILT FENCE.
13. WHERE CONSTRUCTION OR LAND DISTURBING ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 CALENDAR DAYS AFTER THE ACTIVITY HAS CEASED.
14. SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE OR CATCH BASIN.
15. PERMANENT EROSION CONTROL MEASURES SUCH AS SEEDING AND/OR SODDING SHALL TAKE PLACE AS SOON AS POSSIBLE AFTER FINAL GRADING OPERATIONS HAVE BEEN COMPLETED.

**EXISTING LEGEND**

—TUG—	UNDERGROUND TELEPHONE
—OHE—	OVERHEAD ELECTRICAL
—UGE—	UNDERGROUND ELECTRICAL
—GAS—	NATURAL GAS
—W—	WATER LINE
—SS—	SANITARY SEWER
—CATV—	CABLE TELEVISION

**PROPOSED LEGEND**

	CONSTRUCTION ENTRANCE
—SF—	SILT FENCE
—SS—	STRAW WATTLE

**TOTAL DISTURBED AREA**  
2.21 ACRES  
96,598 S.F.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY

68 NORTHLEWIS  
TULSA, OK 74110

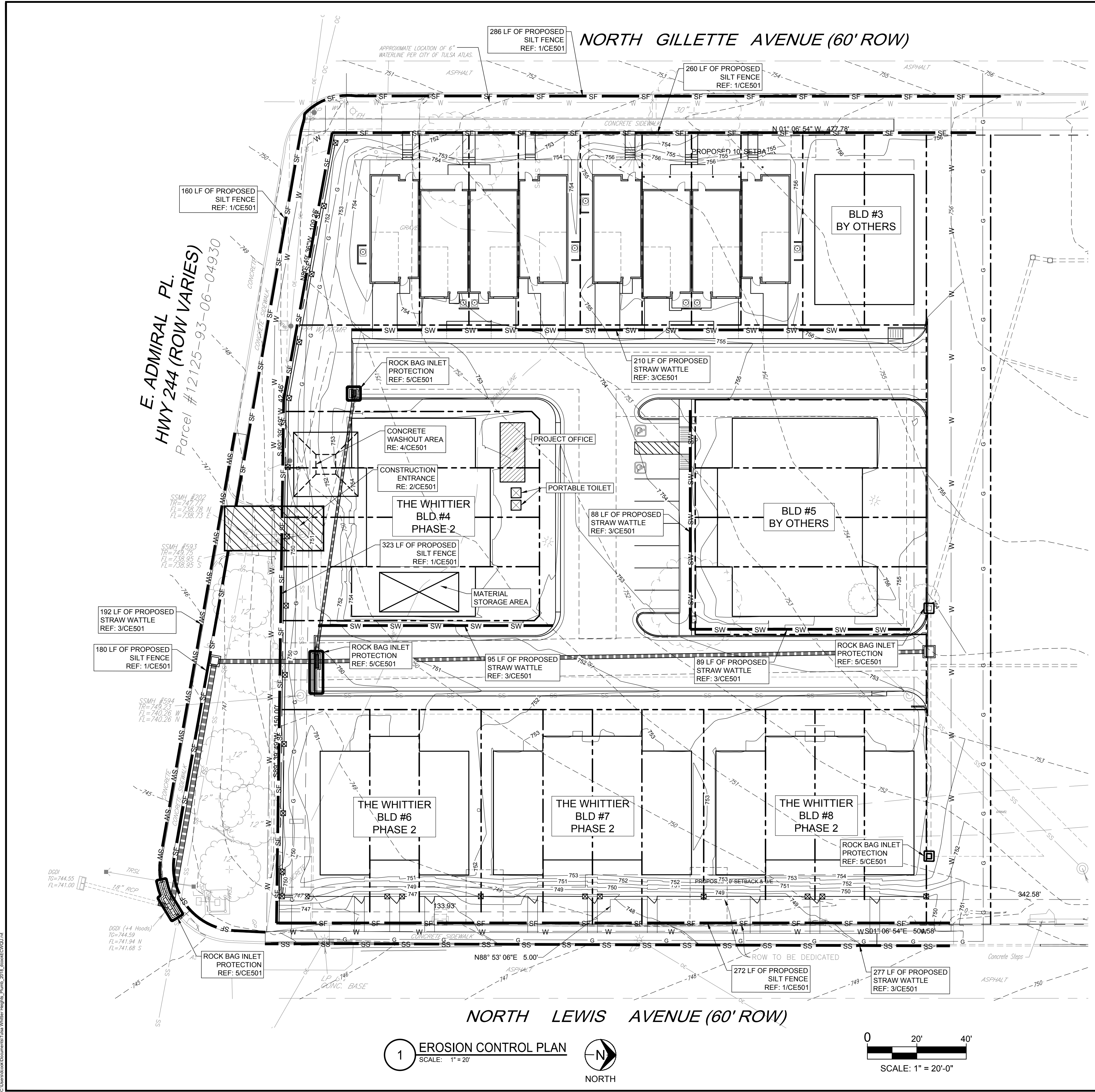
ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

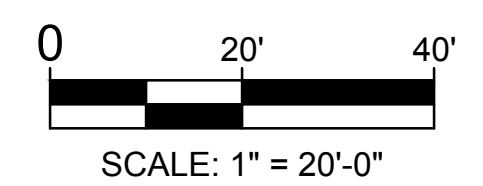
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: SAT  
DRAWN BY: CDC

SHEET NAME  
EROSION CONTROL PLAN

SHEET NUMBER

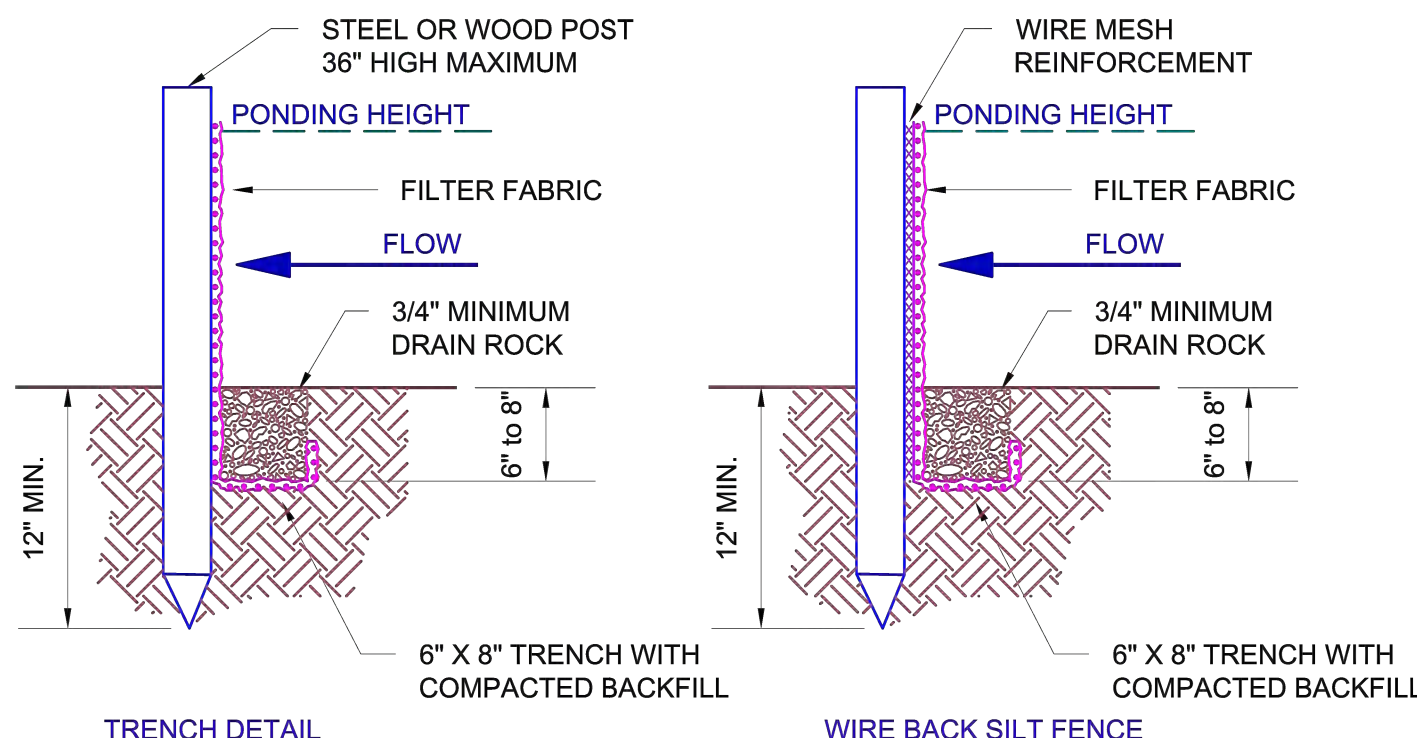
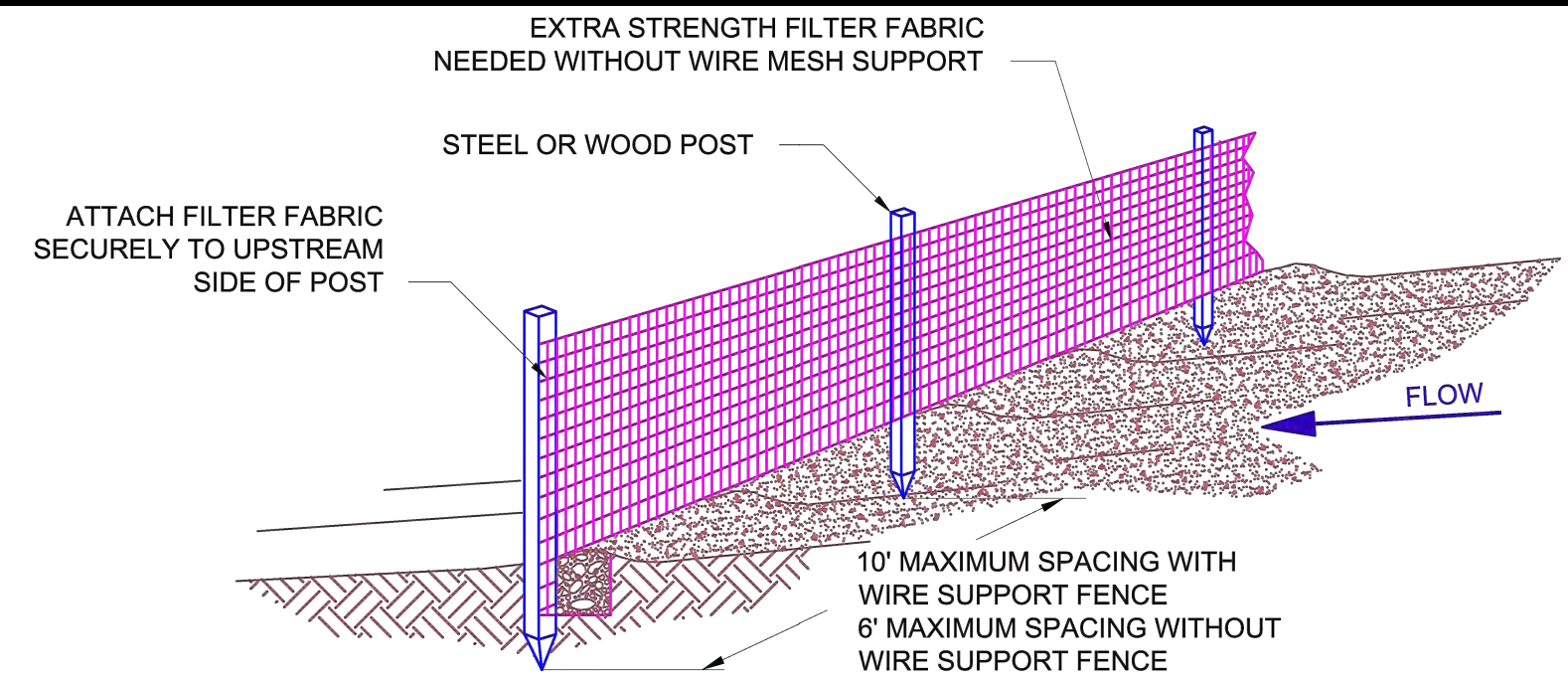


**1 EROSION CONTROL PLAN**  
SCALE: 1" = 20'



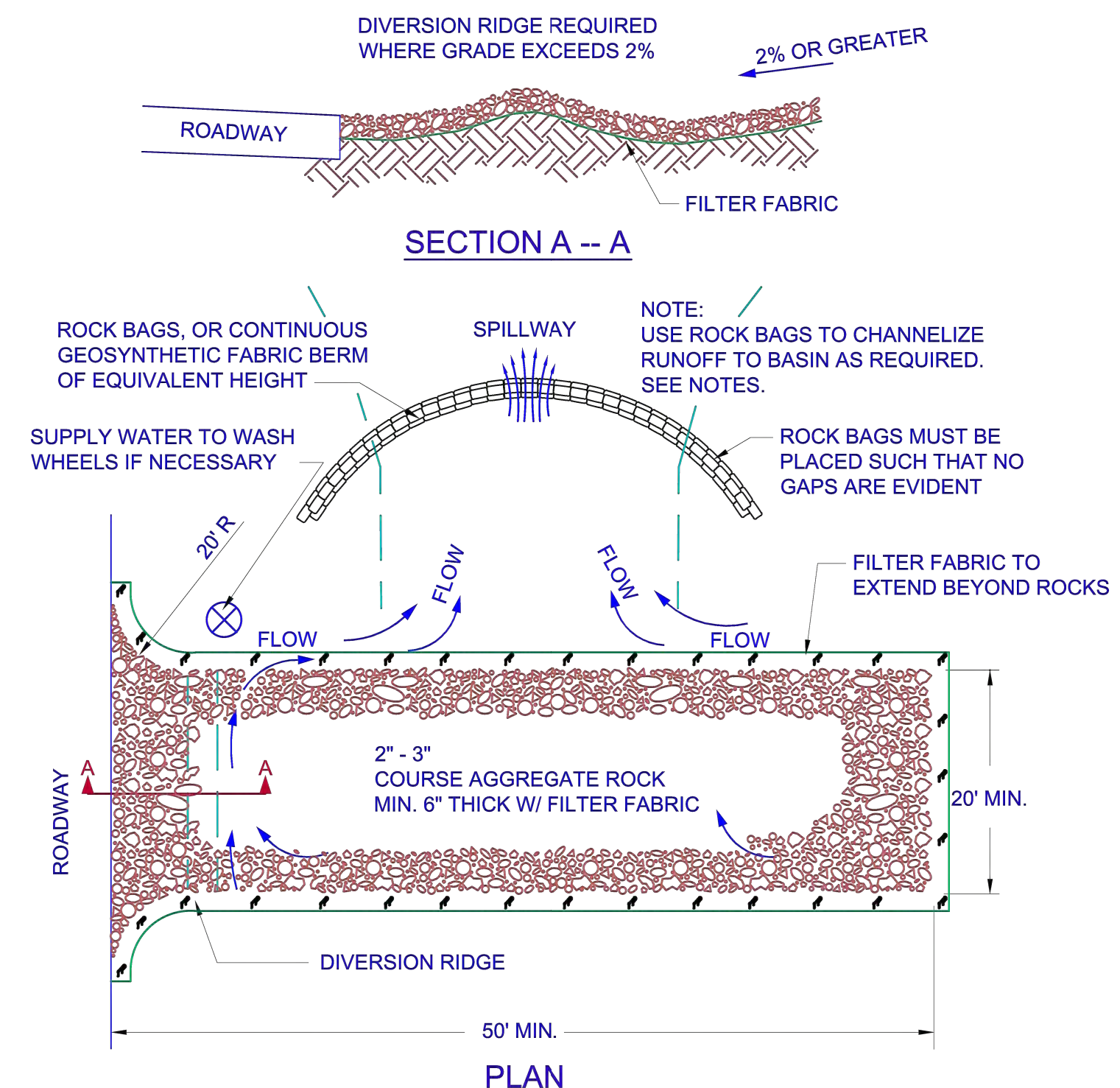
E. ADMIRAL PL.  
HWY 244 (ROW VARIES)  
Parcel #12125-93-06-04930

C:\Users\jgarcia\OneDrive\Documents\The Whittier Phase 1\Drawings\2018\_0606\CE101.dwg



- NOTES:**
- MUST BE INSTALLED PROPERLY TO AVOID NOTICE OF VIOLATION.
  - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.
  - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. ACCUMULATED SEDIMENT SHOULD BE REMOVED FROM THE FENCE BASE WHEN THE SEDIMENT REACHES ONE-THIRD TO ONE-HALF THE FENCE HEIGHT.
  - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

**1 SILT FENCE DETAIL**  
SCALE: N/A



- NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
  - BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.

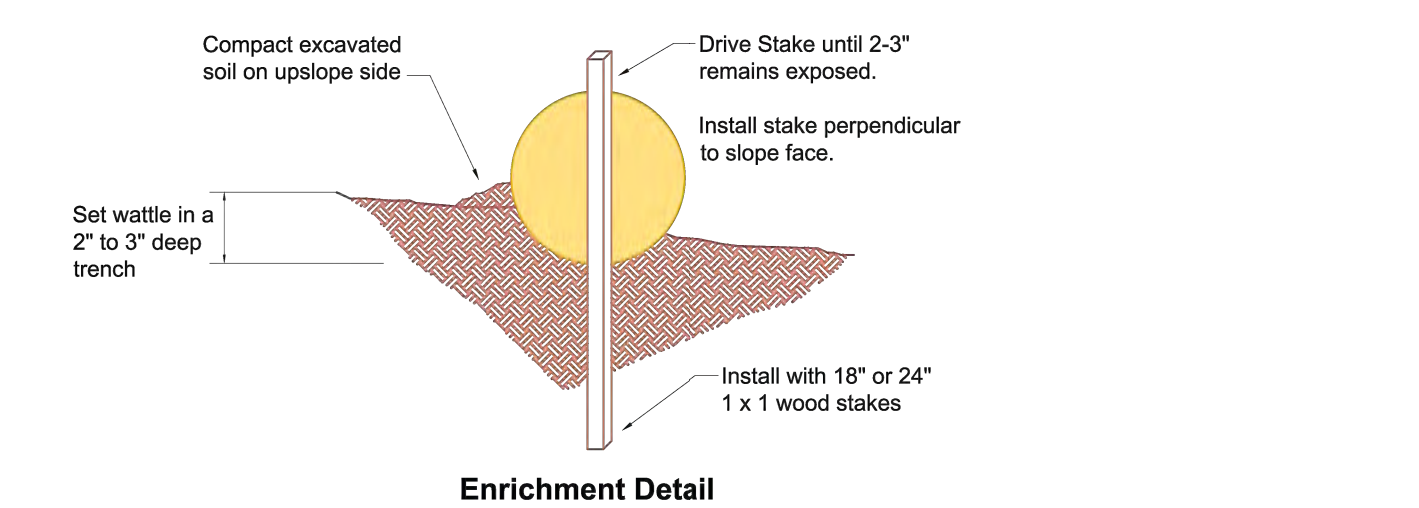
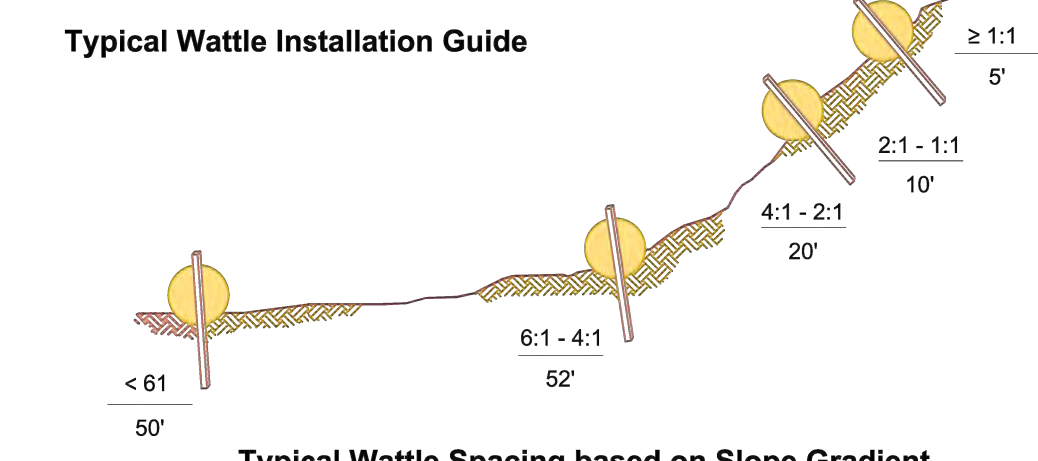
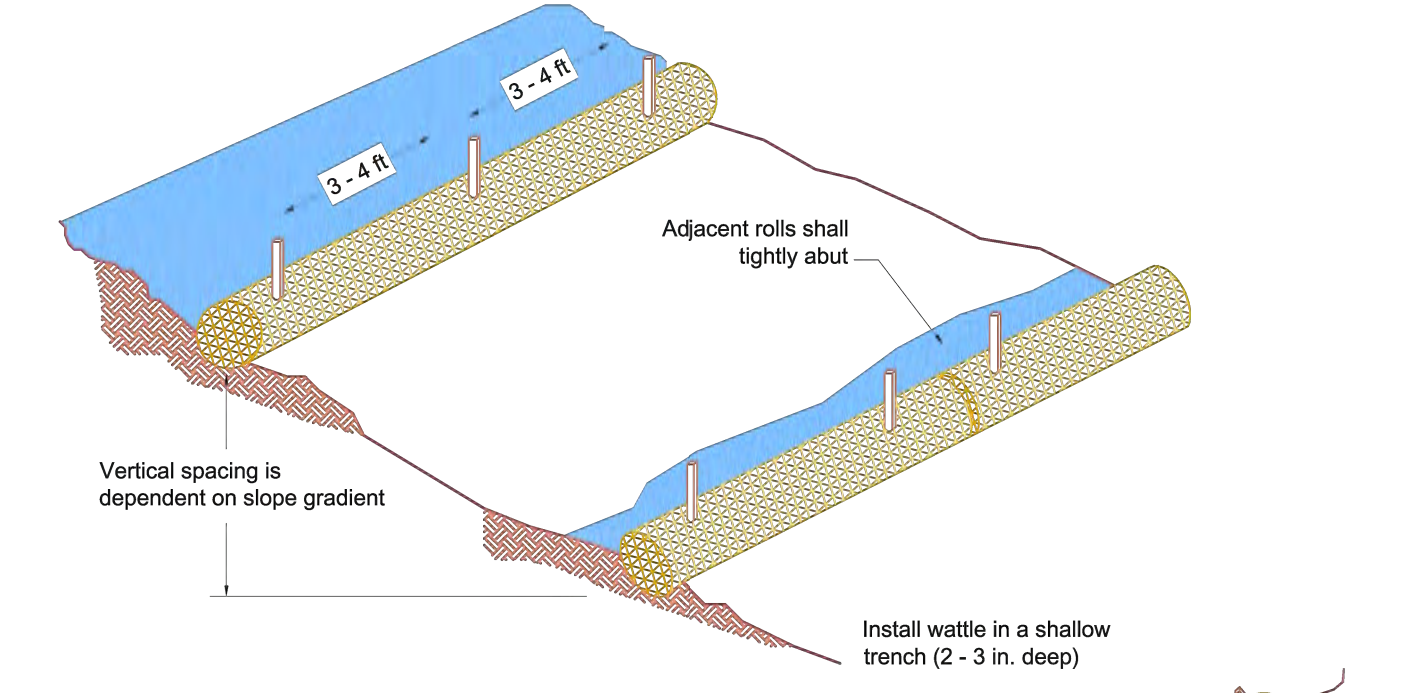
**2 TEMPORARY ROCK CONSTRUCTION ENTRANCE/EXIT**  
SCALE: N/A

**CONCRETE WASH-OUT AREA INSTALLATION NOTES:**

- DO NOT LOCATE THE CONCRETE WASH-OUT AREA WITHIN 400 FEET OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY, OR WITHIN 1000 FEET OF ANY WELLS OR DRINKING WATER SOURCES.
- THE CONCRETE WASH-OUT AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- CONCRETE WASH-OUT AREA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' BOTTOM, SLOPES LEADING OUT OF THE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- THE CONCRETE WASH-OUT PIT SHALL BE LINED WITH EITHER A COMPACTED CLAY LINER, 20 MIL THICK SYNTHETIC LINERS, OR SIMILAR EQUIVALENT LINERS TO MAKE THE PIT LEAK PROOF.
- BERM ALONG THE SIDES AND BACK OF THE CONCRETE WASH-OUT AREA SHALL HAVE A MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CONCRETE WASH-OUT AREA.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE WASH-OUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASH-OUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
- STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASH-OUT DEVICES OR A LINED, ABOVE GROUND STORAGE AREA ARE ACCEPTABLE.

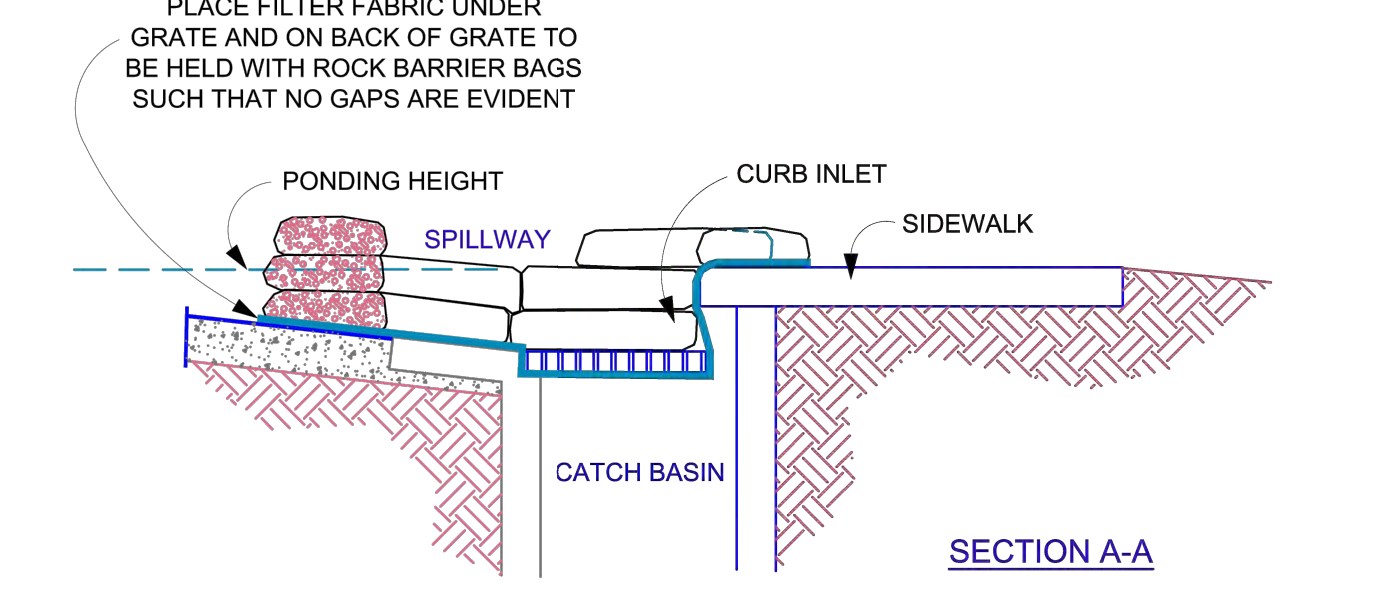
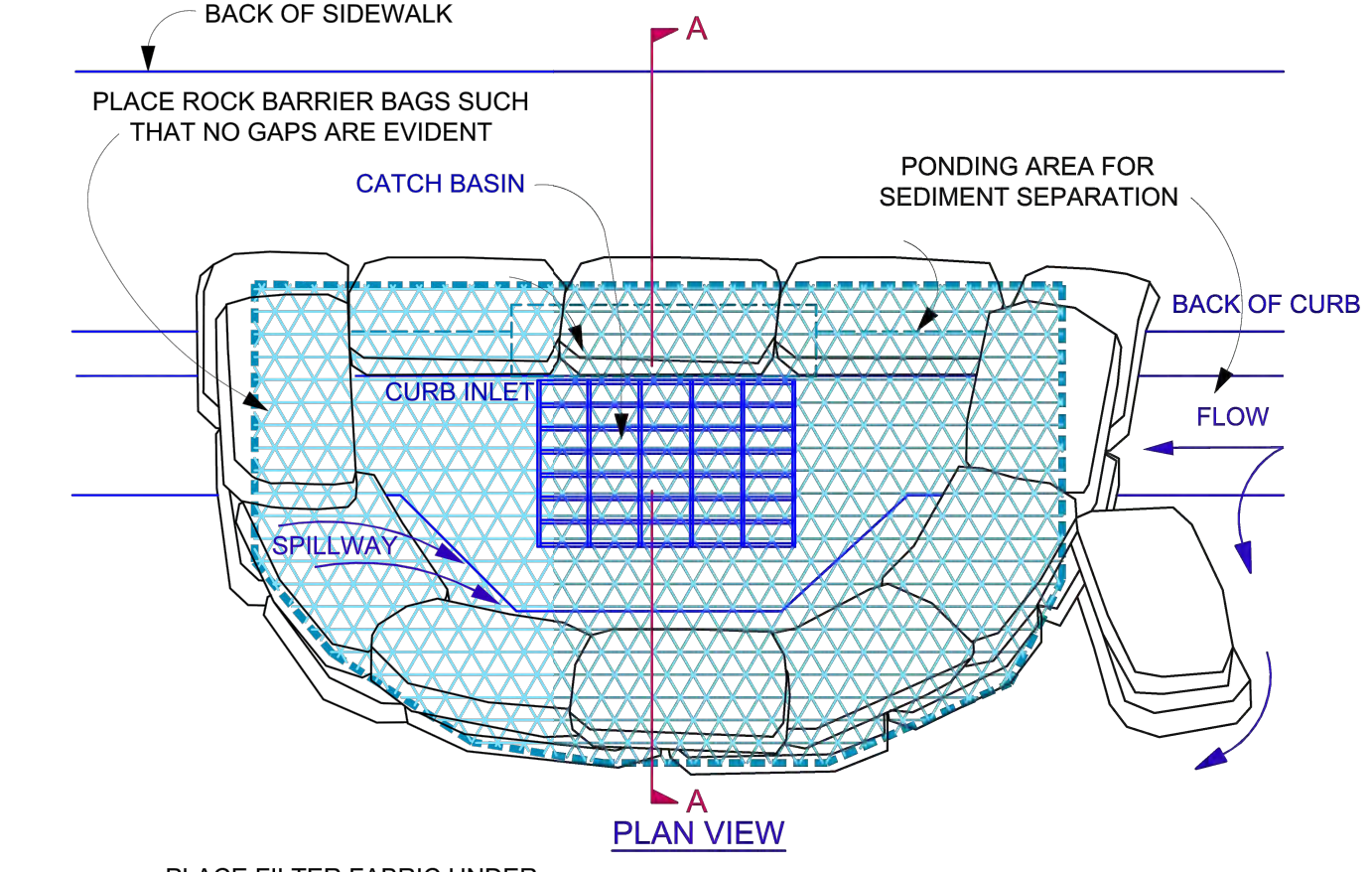
**CONCRETE WASH-OUT AREA MAINTENANCE NOTES:**

- THE CONCRETE WASH-OUT AREA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2 FEET.
- CONCRETE WASH-OUT WATER, WASTER PIECES OF CONCRETE, AND ALL OTHER DEBRIS IN THE CONCRETE WASH-OUT PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
- THE CONCRETE WASH-OUT AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
- WHEN THE CONCRETE WASH-OUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH OR OTHERWISE STABILIZED IN AN APPROVED MANNER.



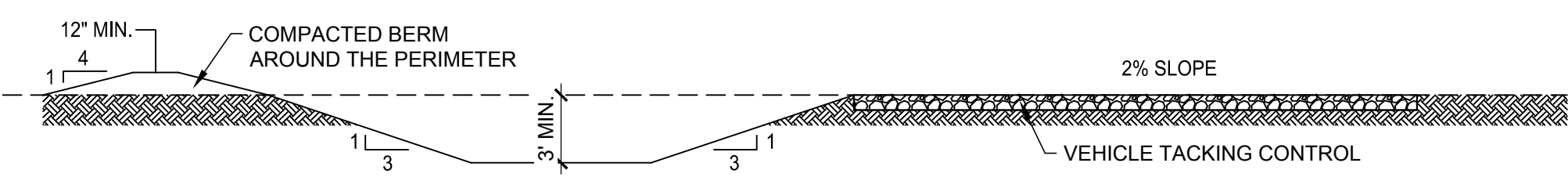
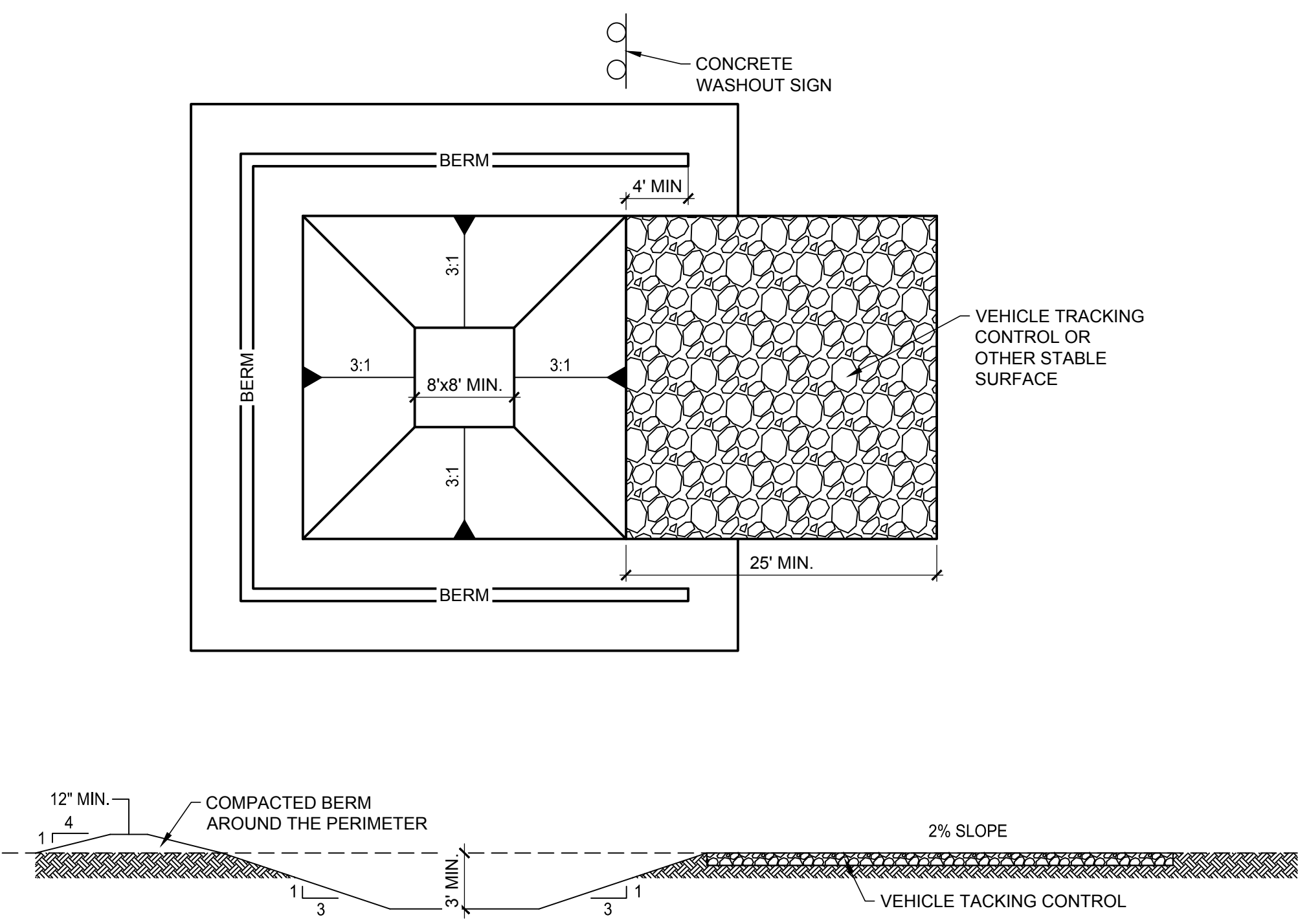
- NOTES:**
- Begin at the location where the wattle is to be installed by excavating a 2 - 3" deep x 9" wide trench along the contour of the slope. Excavated soil should be placed up-slope from the anchor trench.
  - Place the wattle in the trench so that it contours to the soil surface. Compact the soil from the excavated trench against the wattle on the uphill side. Adjacent wattles should tightly abut.
  - Secure the wattle with 18 - 24" stakes every 3 - 4' with a stake on each end. Stakes should be driven through the middle of the wattles leaving at least a 3" of stake extending above, the wattle stakes should be driven perpendicular to slope face.

**3 STRAW WATTLE INSTALLATION DETAIL**  
SCALE: N/A

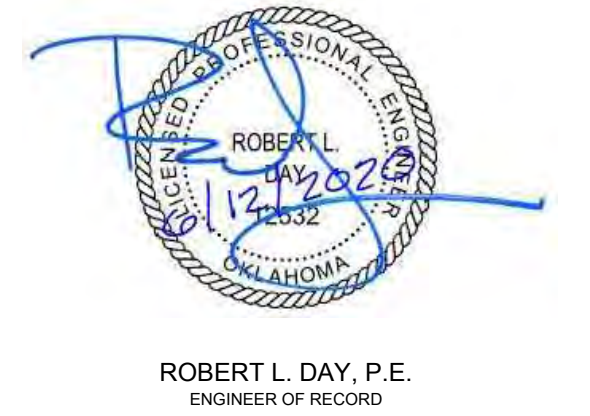


- NOTES:**
- PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
  - BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
  - LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY; OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.
  - INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

**5 ROCK BAG CURB INLET PROTECTION**  
SCALE: N/A



**4 CONCRETE WASH-OUT AREA DETAIL**  
SCALE: N/A



ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: SAT  
DRAWN BY: CDC

SHEET NAME:  
EROSION CONTROL DETAILS

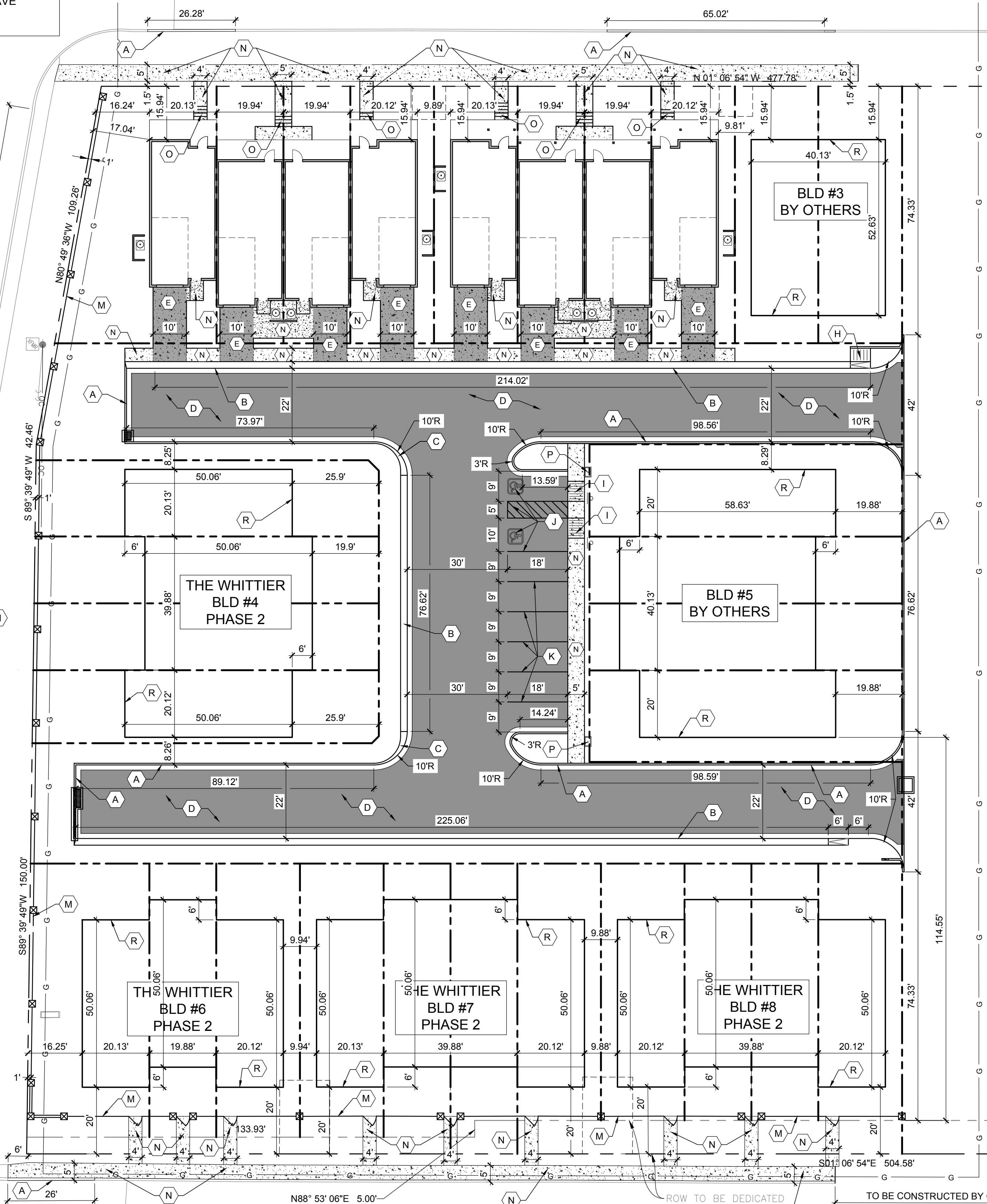
SHEET NUMBER:



BENCHMARK  
CHISELED BOX ON CONCRETE CURB,  
NORTH WEST QUADRANT OF EAST  
ARCHER AND N. GILLETTE AVE  
N 429556.302, E 2570769.087  
ELEVATION = 761.59

NORTH GILLETTE AVENUE (60' ROW)

E. ADMIRAL PL.  
HWY 244 (ROW VARIES)  
Parcel #12125-93-06-04930



SITE PLAN KEY NOTES

- (A) CONSTRUCT CURB AND GUTTER, REF: 2/CS501
- (B) CONSTRUCT ROLL OVER CURB, REF: 3/CS501
- (C) TRANSITION FROM STANDARD CURB TO ROLL OVER CURB ALONG CURB RETURN
- (D) CONSTRUCT ASPHALT PAVEMENT, REF: 5/CS501
- (E) CONSTRUCT CONCRETE PAVEMENT, REF: 5/CS501
- (F) INSTALL ADA PARKING SIGN, REF: 4/CS502
- (G) INSTALL ADA TYPE "A" CURB RAMP, COT STD. 790
- (H) INSTALL ADA CURB RAMP, REF: 6/CS502
- (I) INSTALL ADA PARALLEL CURB RAMP, REF: 1/CS502
- (J) ADA PARKING STRIPING, REF: 2/CS502
- (K) 4" SOLID WHITE LANE LINE
- (L) INSTALL LIGHT POLE, RE: ELECTRICAL PLANS FOR TYPE AND MANUFACTURER.
- (M) INSTALL DECORATIVE WROUGHT IRON FENCE, RE: AS101
- (N) CONSTRUCT CONCRETE SIDEWALK, RE: 4/CS501
- (O) CONSTRUCT CONCRETE STEPS, RE: 6/CS501
- (P) INSTALL FLORENCE CORPORATION, VITAL 1570-16 MAIL BOX OR APPROVED EQUAL CENTERED ON A 36"x24"x4" THICK CONCRETE SLAB. FINAL LOCATION AND ORIENTATION TO BE COORDINATED WITH OWNER.
- (Q) CONSTRUCT CONCRETE ADA RAMP WITH UPPER AND LOWER LANDINGS AND HANDRAIL, RE: ARCHITECTURAL AND STRUCTURAL PLANS FOR DIMENSIONS & DETAILS.
- (R) CONSTRUCT PHASE 2 & VINTAGE BUILDING PADS, RE: CG101 FOR PAD ELEVATIONS

LEGEND (ABBREVIATIONS)

- CICI CAST IRON CURB INLET
- CMP CORRUGATED METAL PIPE
- CO SANITARY SEWER CLEAN OUT
- ES ELECTRICAL SECONDARY UNDERGROUND
- F.F.E. FINISH FLOOR ELEVATION
- FL FLOW LINE
- G CUTTER
- GL GAS LINE
- HDPE HIGH-DENSITY POLYETHYLENE
- IE INVERT ELEVATION
- LF LINEAR FOOT
- LS LANDSCAPE AREA
- O.C. ON CENTER
- OE OVERHEAD ELECTRICAL LINE
- PP POWER POLE
- R RADIUS
- SD STORM DRAIN
- SS SANITARY SEWER LINE
- SSMH SANITARY SEWER MANHOLE
- T THICK
- TC TOP OF CURB
- TG TOP OF GRATE
- TSB TRAFFIC SIGNAL BOX
- TSP TRAFFIC SIGNAL POLE
- TYP TYPICAL
- UE UNDERGROUND ELECTRICAL LINE
- UT UNDERGROUND TELEPHONE LINE
- W WIDE

SITE PLAN NOTES

1. THE CONTRACTOR SHALL CONTACT "OKIE" AT 811 OR 800-522-6543, THREE (3) WORKING DAYS BEFORE BEGINNING ANY WORK, SO EXISTING UNDERGROUND UTILITIES CAN BE LOCATED AND MARKED.
2. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
3. SIDEWALK EXPANSION JOINTS SHALL BE PLACED IN ACCORDANCE WITH DETAIL 2/CS101.
5. THIS PROPERTY IS LOCATED IN ZONE "X". "FLOOD HAZARD AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN", PER FEMA F.I.R.M. COMMUNITY PANEL NO. 4014300240L, EFFECTIVE DATE: OCTOBER 16, 2012.
6. EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH STRUCTURAL BUILDING PLANS AND SPECIFICATIONS AND THE GEOTECHNICAL REPORT FOR THIS PROJECT. REPORT PREPARED BY: AIMRIGHT TESTING & ENGINEERING, PROJECT NO. 5960119, DATED JANUARY 25, 2019.
7. ALL CONSTRUCTION AND METHODS TO BE IN STRICT ACCORDANCE WITH CURRENT CITY OF TULSA STANDARD DRAWINGS AND SPECIFICATIONS.
8. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. MAINTAIN ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. CONTRACTOR SHALL COMPLY WITH ALL O.S.H.A. REGULATIONS AND SAFETY REQUIREMENTS.
9. THIS SET OF CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED AS A WHOLE IN THAT THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS ARE RESPONSIBLE FOR INFORMATION PRESENTED ON ALL SHEETS OF THIS SET OF DRAWINGS.
10. CONTRACTOR IS TO BE RESPONSIBLE FOR OBTAINING ANY REQUIRED STATE OR LOCAL PERMITS. CONSTRUCTION MEANS AND METHODS SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
11. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE, AS NECESSARY, TO RETURN IT TO THE EXISTING CONDITION OR BETTER. CONTRACTOR SHALL REPAIR AND RESTORE ANY AREAS DAMAGED DURING CONSTRUCTION AT HIS OWN EXPENSE.
12. CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL MEASURES PER THE EROSION CONTROL PLAN (CE101).
13. THE CONTRACTOR SHALL PERFORM THE WORK ACCORDING TO ALL CITY, COUNTY, STATE AND FEDERAL SAFETY AND HEALTH REGULATIONS. IN PARTICULAR THE "TRENCHING" AND "OPEN EXCAVATION" OPERATIONS SHALL COMPLY WITH ALL CURRENT O.S.H.A. REGULATORY REQUIREMENTS.
14. ALL PAVEMENT MARKING OF STRIPES TO BE 4" WIDE, WHITE AND APPLIED IN TWO COATS, UNLESS OTHERWISE NOTED, RE: SPECIFICATIONS.
15. PARKING LOT STRIPING AND REQUIRED ADA ACCESSIBLE AISLES SHOWN ON PLAN SHALL BE MARKED IN ACCORDANCE WITH CURRENT ADA GUIDELINES.
16. ALL NEW SIDEWALKS, IF ANY, NOT ADJACENT TO THE BUILDING, SHALL BE 4" THICK AND A MINIMUM OF FOUR (4) FEET WIDE. SIDEWALKS SHALL HAVE A LIGHT BROOM FINISH WITH A MAXIMUM CROSS SLOPE OF TWO PERCENT. TRANSVERSE CONTRACTION JOINTS SHALL MAINTAIN AN EQUAL SPACING WITH THE SIDEWALK WIDTH. SIDEWALK EXPANSION JOINTS SHALL NOT EXCEED 40 FOOT SPACING UNLESS OTHERWISE NOTED.

ADA NOTES

1. ANY REQUEST BY THE GOVERNING AUTHORITY OR INSPECTOR TO ALTER ADA COMPLIANCE DETAILS OR REQUIREMENTS DEPICTED ON AND IN THESE PLANS AND SPECIFICATIONS MUST BE DIRECTED TO THE OWNER'S CONSTRUCTION MANAGER FOR AUTHORIZATION. ANY CHANGES MADE WITHOUT PROPER AUTHORIZATION AND LATER FOUND TO BE NON-COMPLIANT WITH THE DETAILS AS SHOWN ON AND IN THESE PLANS AND SPECIFICATIONS WILL BE REMOVED AND REPLACED TO BE MADE FULLY COMPLIANT, REGARDLESS OF MAGNITUDE, AT THE CONTRACTOR AND/OR SUB-CONTRACTOR'S EXPENSE. THE CONTRACTOR MUST FOLLOW THE "REQUEST FOR INFORMATION" (RFI) PROCESS IN ACQUIRING THE APPROVAL OF CHANGES TO ADA RELATED ITEMS.
2. RE: GRADING PLAN SHEET (CG101) FOR FINAL GRADES.
3. ALL NEW SIDEWALKS (INCLUDING SIDEWALKS TO BE REMOVED & REPLACED) SHALL NOT EXCEED 2% CROSS SLOPE & 5% RUNNING SLOPE. FOR SIDEWALKS CONTAINED WITHIN THE PUBLIC ROW AND WHEN ADJACENT STREET GRADES EXCEED 5%, THEN SIDEWALK RUNNING SLOPES MAY MATCH STREET GRADES.
4. 1/8" MAXIMUM DEPTH TO TOP OF SEALANT AND 1/8" MAXIMUM PROTRUSION TO TOP OF SEALANT ALONG ADA ACCESS ROUTES.
5. PRIVATE PROPERTY RAMPS SHALL HAVE THE FACE OF THE CURB TRANSITIONS PAINTED YELLOW (RE: 5/CS501)

PAVING NOTES

1. ALL CONCRETE SHALL BE 4,500 PSI, AND ALL REINFORCING STEEL SHALL BE GRADE 60, UNLESS OTHERWISE NOTED.
2. TRAFFIC CONTROL MEASURES SHALL BE IN-ACCORDANCE WITH CITY OF TULSA AND THE LATEST VERSION OF THE MUTCD.
3. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND ANY NEW PAVEMENT.
4. CONTRACTOR SHALL PROVIDE AND INSTALL 4 INCH PVC SLEEVES FOR FUTURE UTILITY CROSSINGS UNDER NEW PAVEMENT. THE LOCATION AND NUMBER OF CONDUITS SHALL APPEAR ON THE SITE UTILITY PLAN. VERIFY CONDUIT LOCATIONS WITH ALL UTILITY COMPANIES, AGENCIES OR ENGINEER SUPPLYING FUTURE SERVICES.
5. ALL TRENCH BACKFILL FOR OPEN CUT PAVEMENT AREAS SHALL BE BACKFILLED FULL DEPTH WITH AGGREGATE BASE MATERIAL AND COMPACTED IN 9 INCH LIFTS TO 95% STANDARD PROCTOR DENSITY TO THE BOTTOM OF SURFACE PAVEMENT.

HORIZONTAL CONTROL NOTES

1. COORDINATES SHOWN ARE NAD 83 OKLAHOMA STATE PLANE, NORTH ZONE. VERTICAL CONTROL IS NAVD 88.
2. ALL DIMENSIONS ARE TO THE CENTERLINE OF ROAD, CENTERLINE OF PAINT STRIPES AND TO FACE OF CURB. DIMENSIONS TO BUILDINGS OR OF BUILDINGS ARE TO THE OUTSIDE FACE OF WALL, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. ANY DISCREPANCY FOUND SHALL BE DISCUSSED WITH THE ENGINEER OF RECORD PRIOR TO ANY CONSTRUCTION WORK.



810 SOUTH CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000  
www.cynergy.com



ROBERT L. DAY, P.E.  
ENGINEER OF RECORD

THE WHITTIER - PHASE 1  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: SAT  
DRAWN BY: CDC

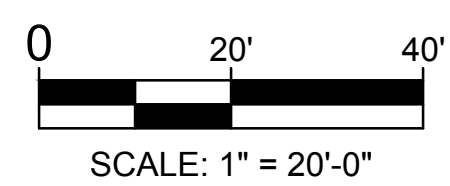
SHEET NAME  
SITE PLAN

SHEET NUMBER

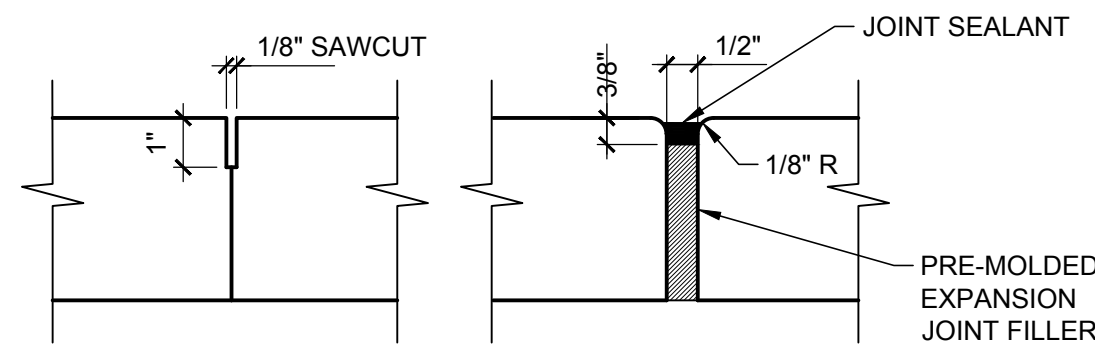


CS101

1 SITE PLAN  
SCALE: 1" = 20'



C:\Users\jacob@cynergy.com\OneDrive\Documents\Projects\2018\06062020\01.dwg

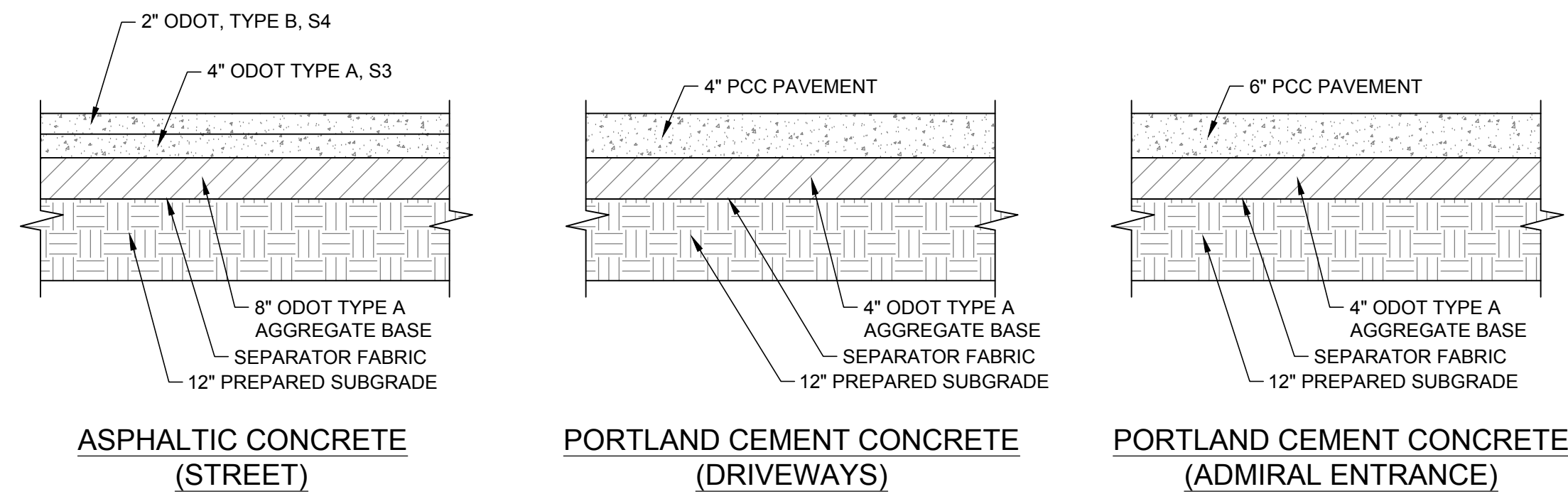


CONTRACTION JOINT EXPANSION JOINT

- NOTES:  
 1. CONTRACTION JOINTS SHALL BE PLACED EVERY 6' UNLESS OTHERWISE NOTED.  
 2. EXPANSION JOINTS SHALL BE PLACED EVERY 54' UNLESS OTHERWISE NOTED.

1 SIDEWALK JOINT DETAILS

SCALE: NOT TO SCALE



ASPHALTIC CONCRETE (STREET)

PORTLAND CEMENT CONCRETE (DRIVEWAYS)

PORTLAND CEMENT CONCRETE (ADMIRAL ENTRANCE)

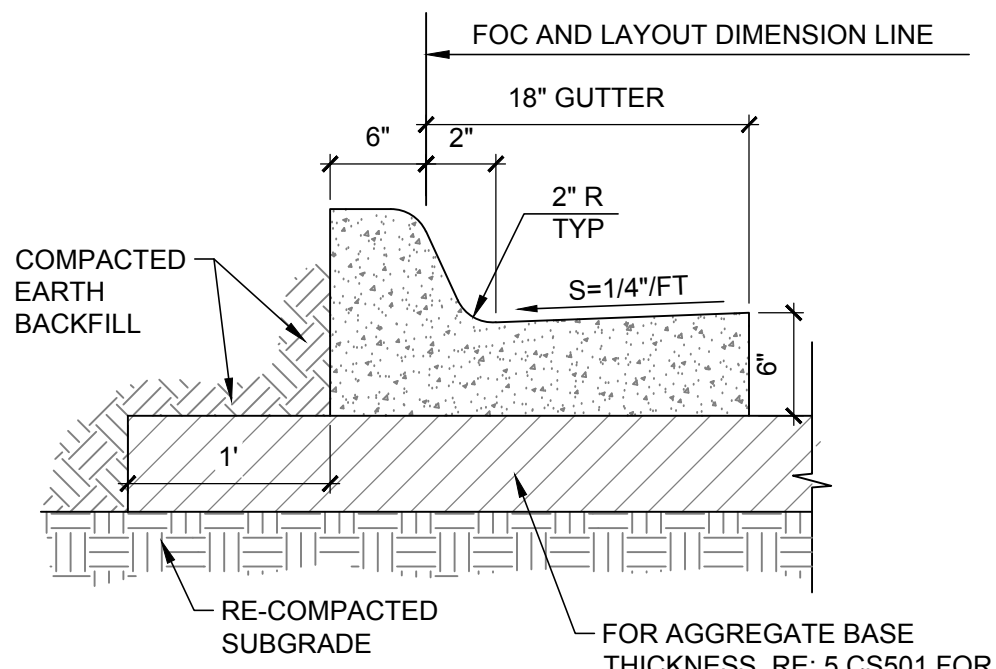
DETAIL NOTE:

REFER TO AIRRIGHT TESTING & ENGINEERING, PROJECT NO. 5960119, DATED: JANUARY 25, 2019 FOR EARTHWORK, SITE PREPARATION, PAVEMENTS AND SUBGRADE, PRIOR TO PLACING PAVEMENT SECTION OR BUILDING PAD.

CONTRACTOR TO CONSTRUCT A FIVE (5) FOOT PAVEMENT TRANSITION BETWEEN ASPHALT AND CONCRETE PAVEMENT. THICKEN THE ASPHALT SECTION TO MATCH THE CONCRETE PAVEMENT DEPTH AND CREATE A THICKENED EDGE PAVEMENT TRANSITION.

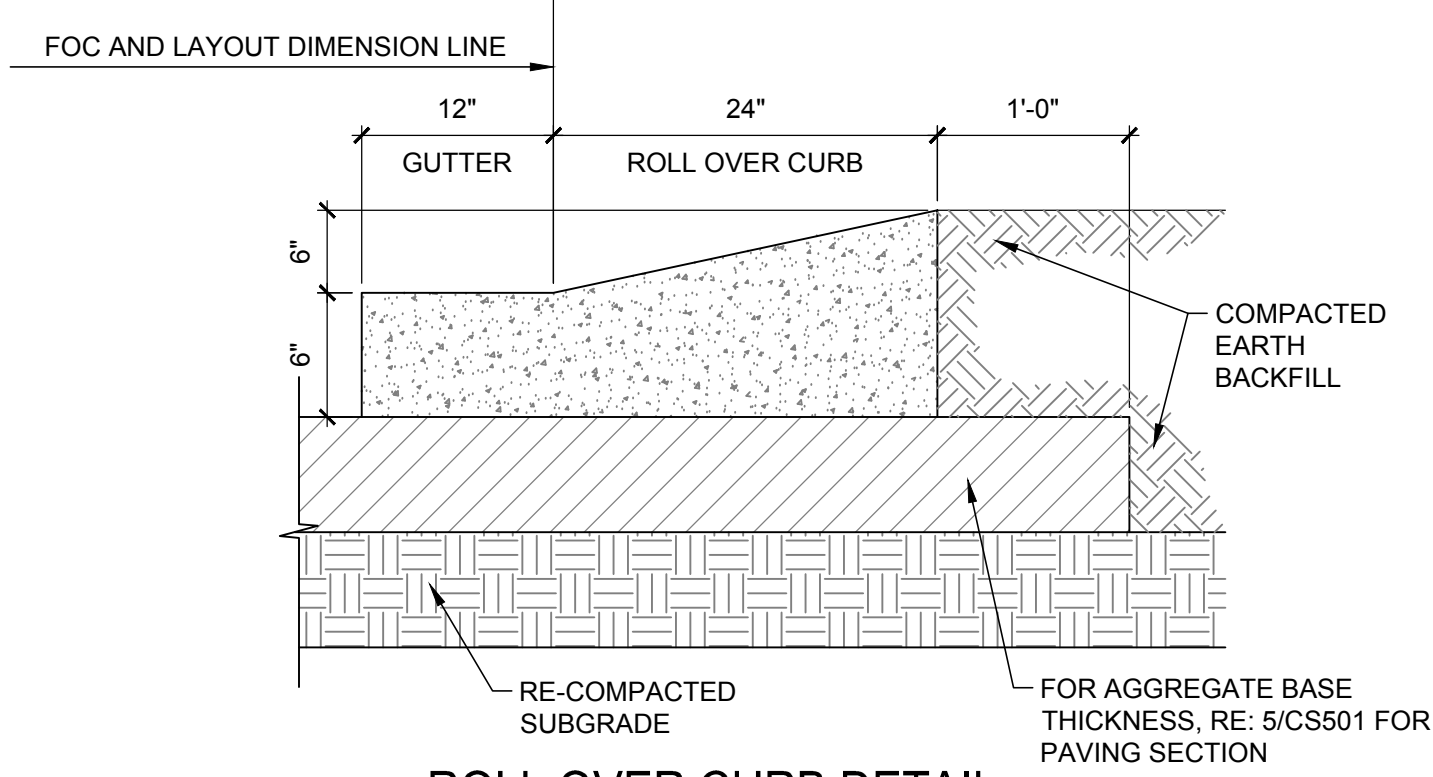
5 PAVEMENT SECTIONS

SCALE: NOT TO SCALE



2 CURB AND GUTTER DETAIL COT DETAIL NO. 762

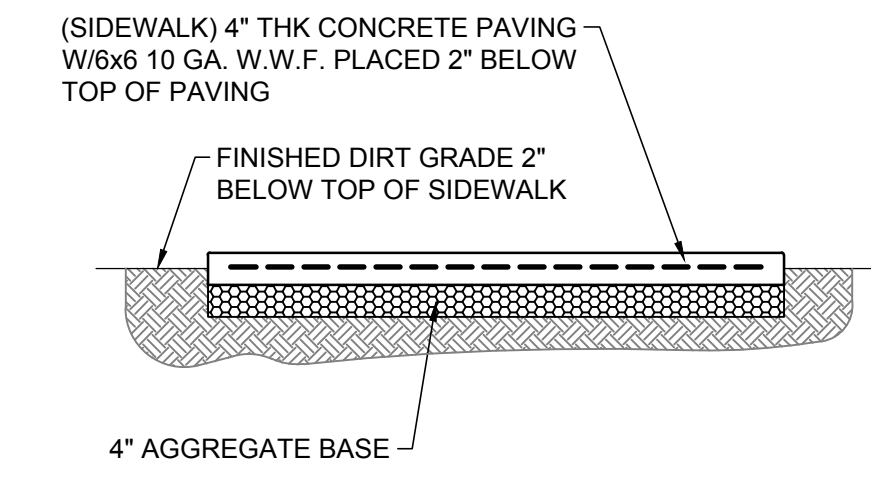
SCALE: NOT TO SCALE



3 ROLL OVER CURB DETAIL COT DETAIL NO. 762

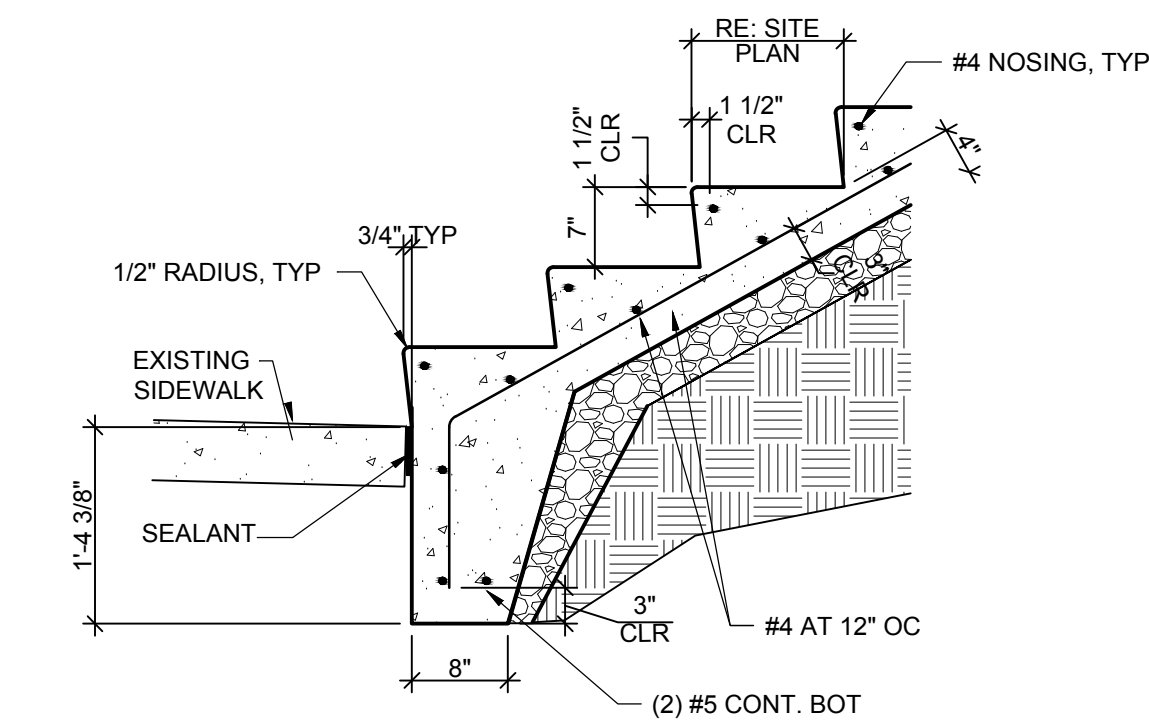
SCALE: NOT TO SCALE

RE: GEOTECHNICAL REPORT FOR APPROVED METHOD OF SUBGRADE PREPARATION

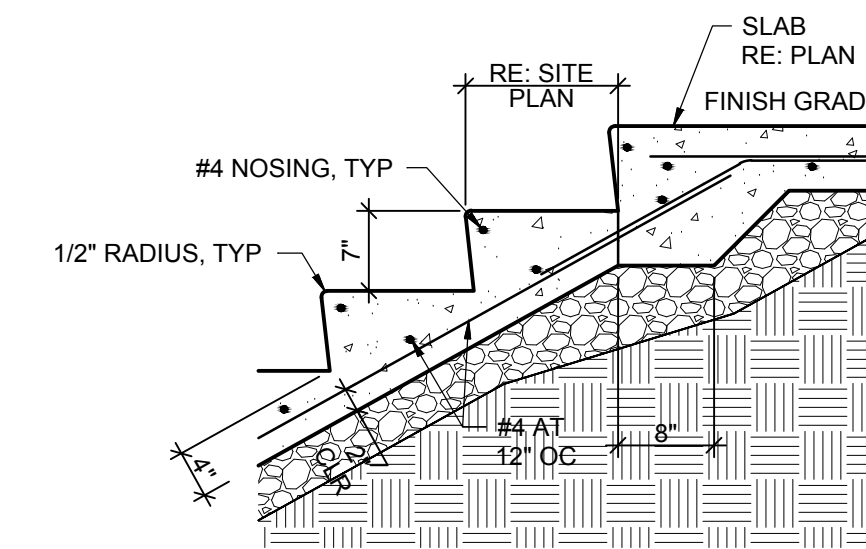


4 SIDEWALK DETAIL

SCALE: NOT TO SCALE



TYPICAL FOOTING AT STAIRS



UPPER STAIR CONNECTION

6 CONCRETE STEP DETAILS

SCALE: NOT TO SCALE



ROBERT L. DAY, P.E.  
 ENGINEER OF RECORD

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
 PROJECT NO: P05093.0100  
 CHECKED BY: SAT  
 DRAWN BY: CDC

SHEET NAME

DETAILS (1 OF 2)

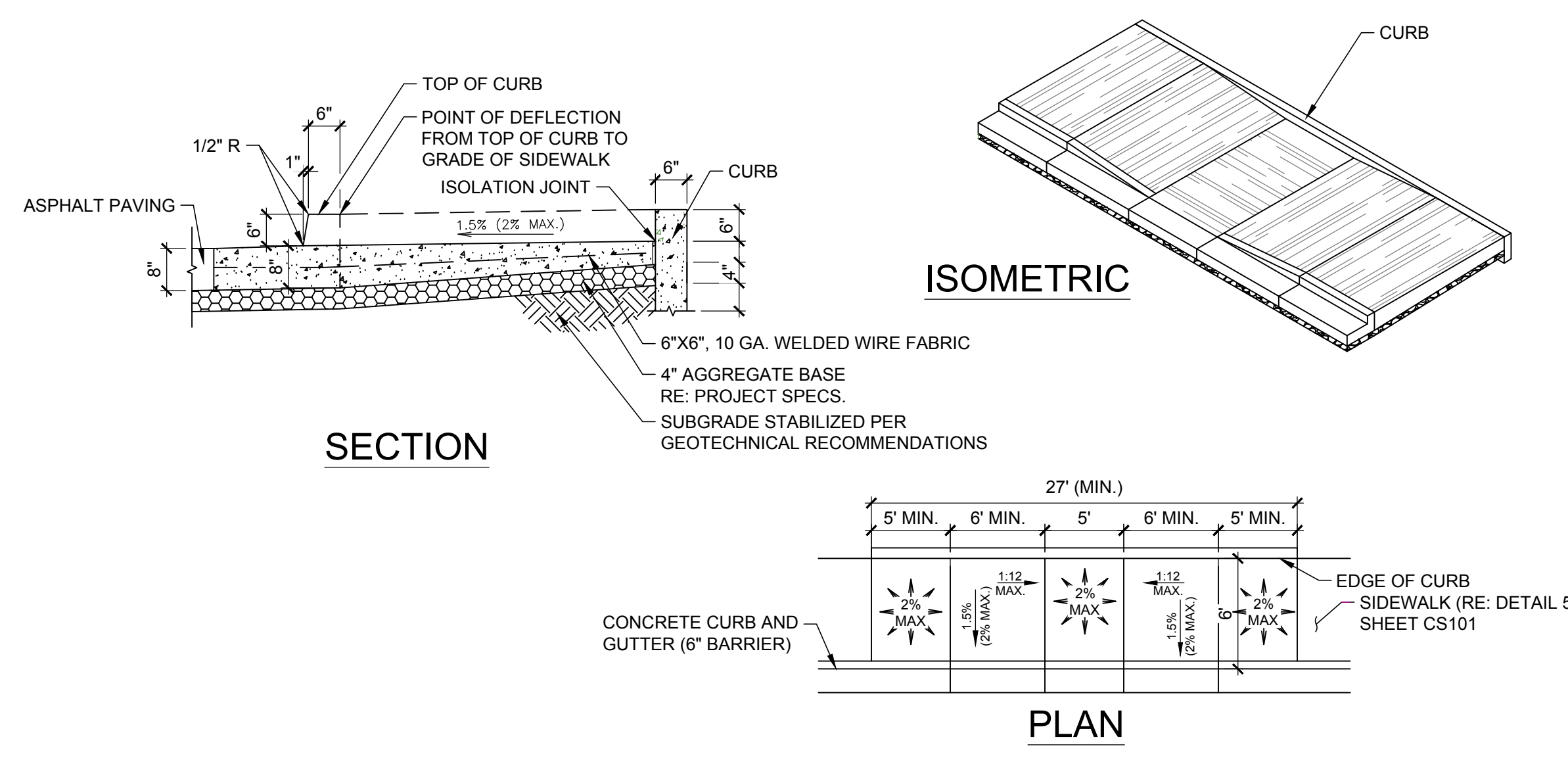
SHEET NUMBER



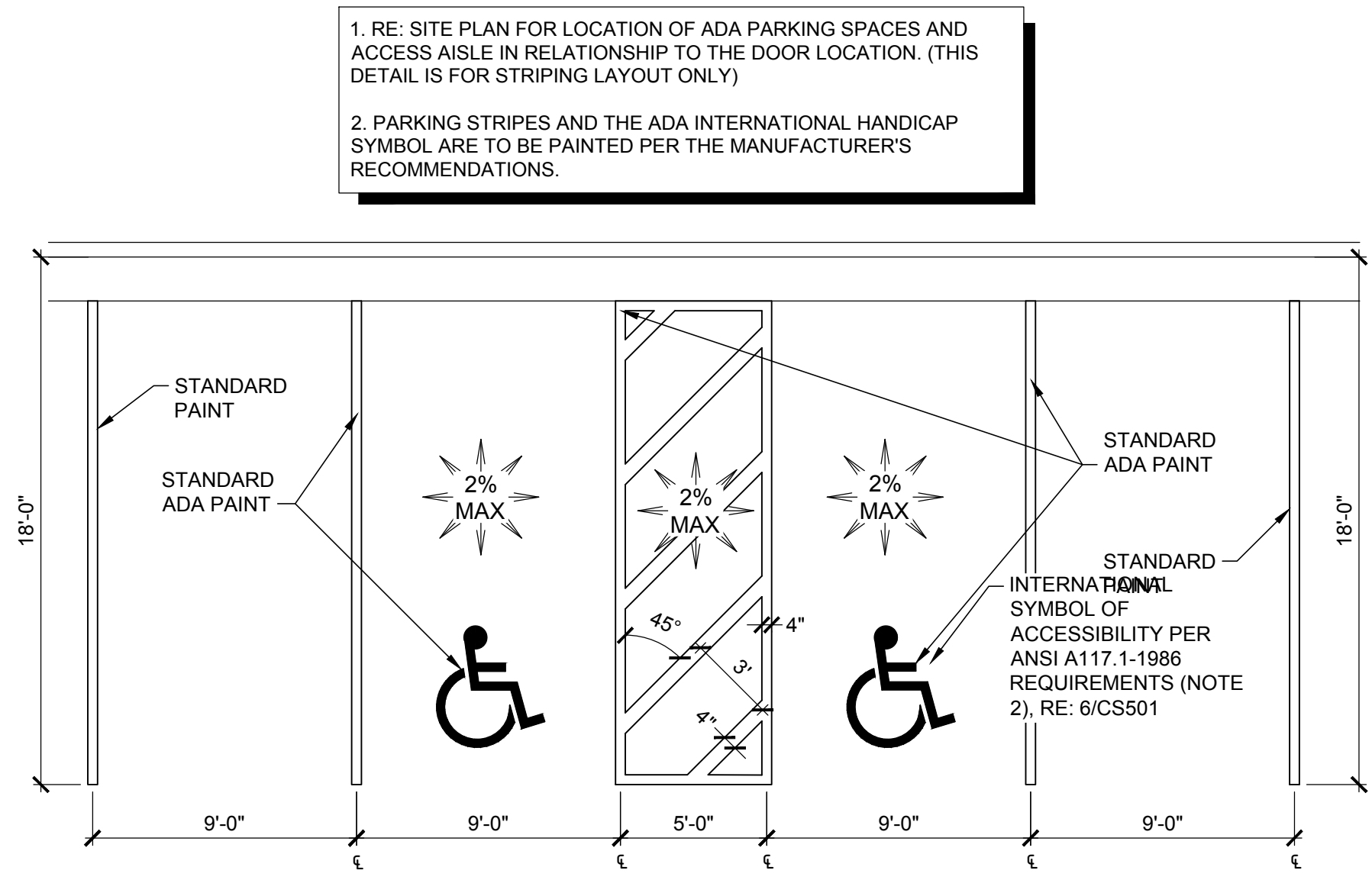




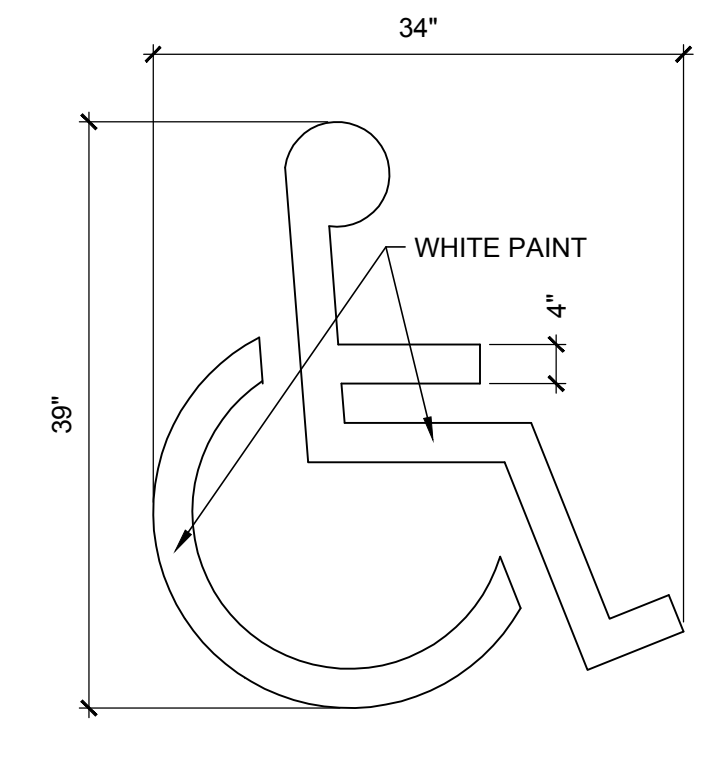
ROBERT L. DAY, P.E.  
ENGINEER OF RECORD



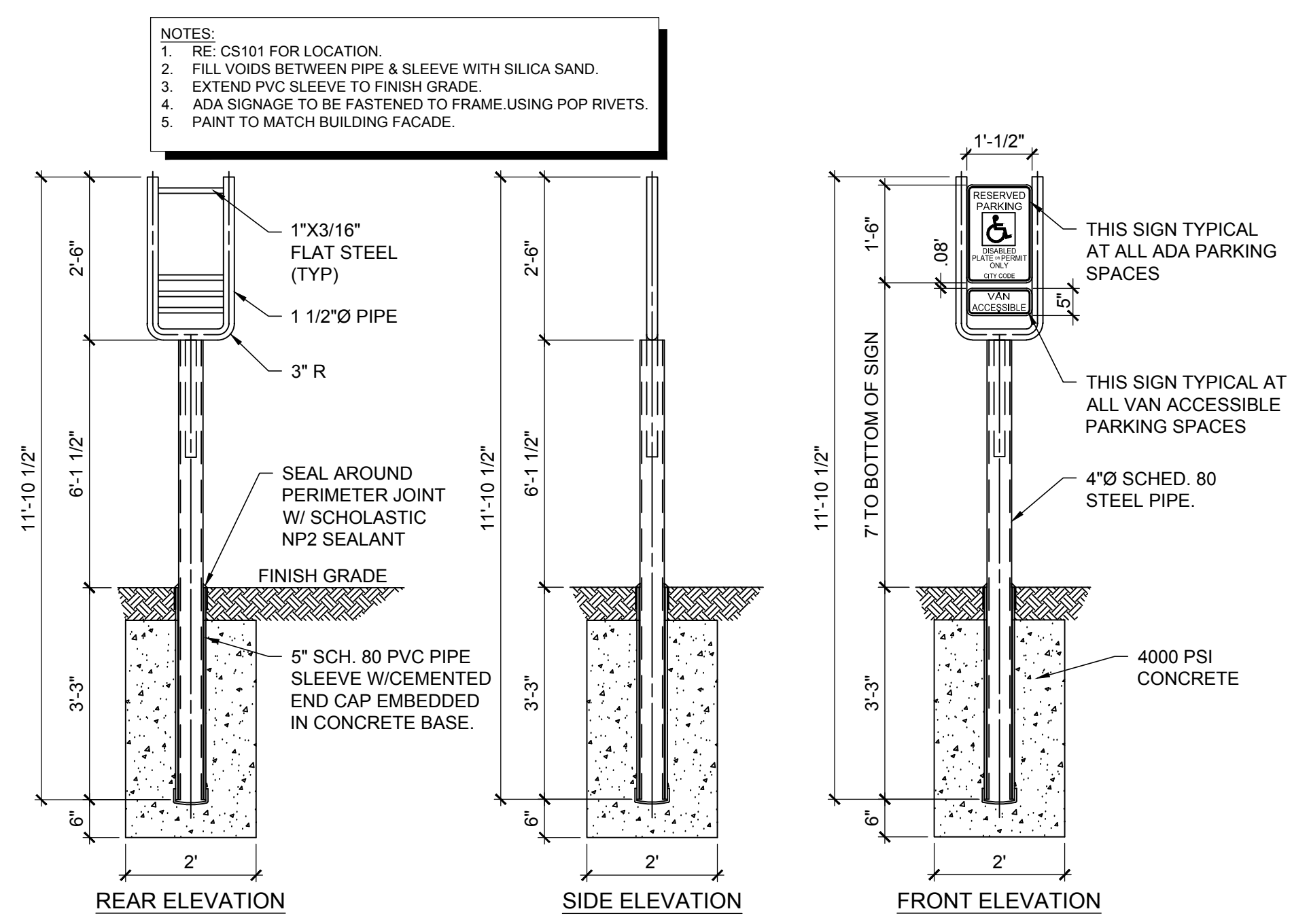
**1 PARALLEL CURB RAMP - ABUTTING BUILDING**  
SCALE: NOT TO SCALE



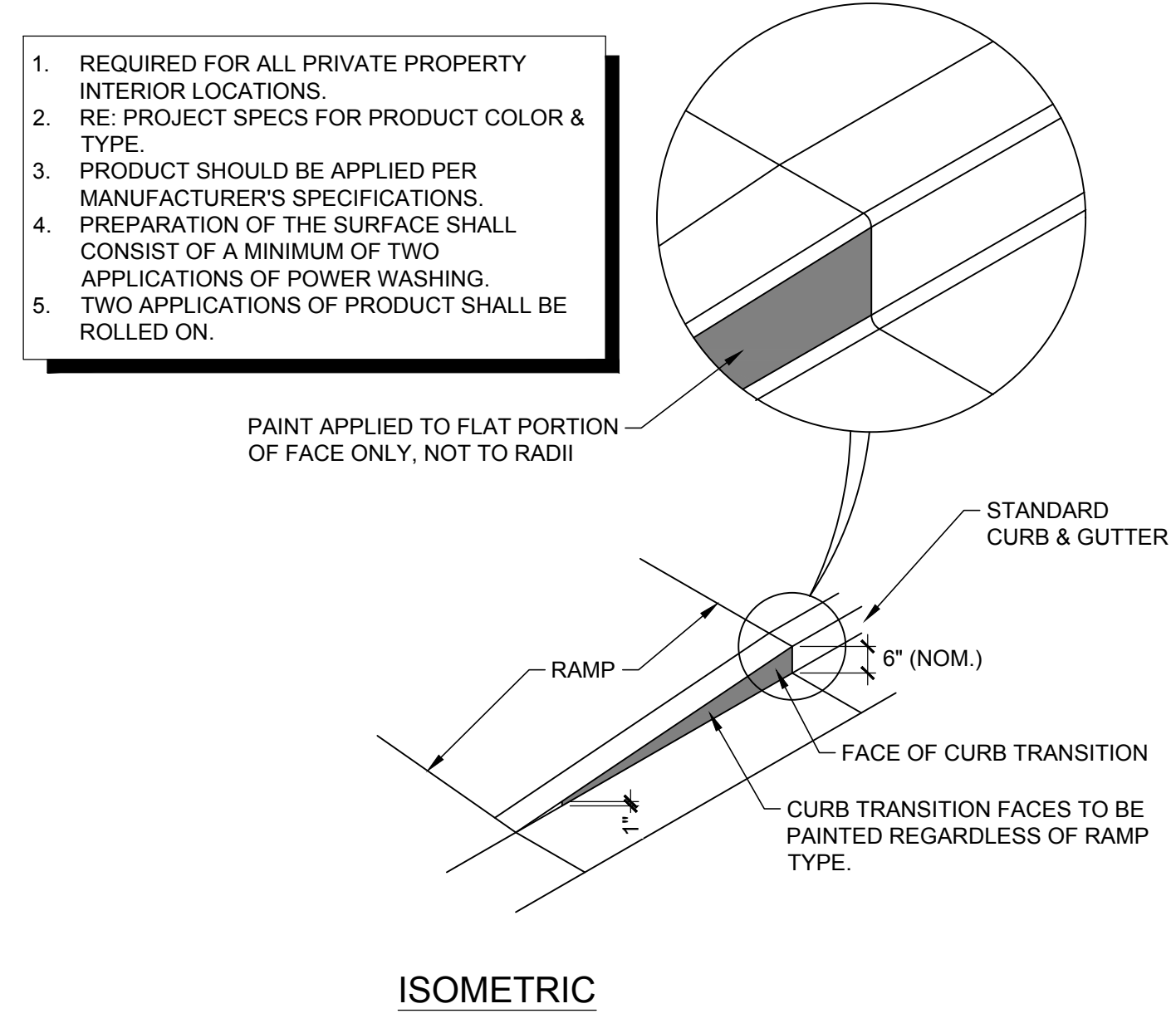
**2 ADA PARKING STRIPING DETAIL**  
SCALE: 1"=5'



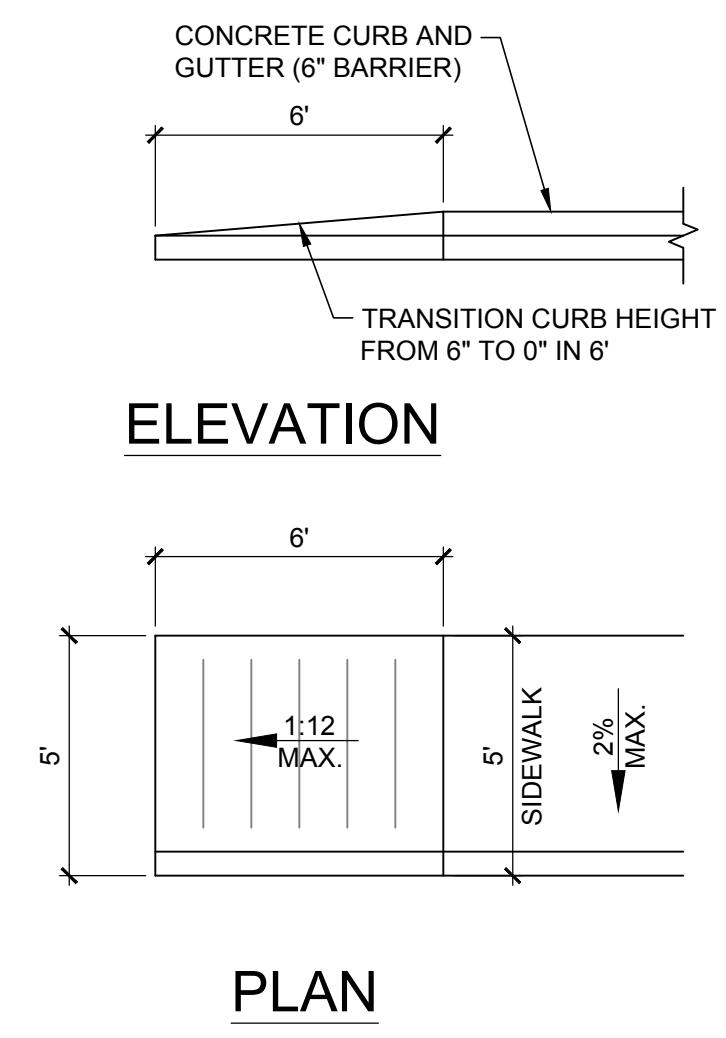
**3 ADA PARKING DETAIL**  
SCALE: NOT TO SCALE



**4 ADA SIGN IN BOLLARD DETAIL**  
SCALE: 1"=2'



**5 RAMP CURB TRANSITION DETAIL**  
SCALE: 1"=2'



**6 ADA CURB RAMP DETAIL - TYPE 2**  
SCALE: NOT TO SCALE

- REQUIRED FOR ALL PRIVATE PROPERTY INTERIOR LOCATIONS.
- RE: PROJECT SPECS FOR PRODUCT COLOR & TYPE.
- PRODUCT SHOULD BE APPLIED PER MANUFACTURER'S SPECIFICATIONS.
- PREPARATION OF THE SURFACE SHALL CONSIST OF A MINIMUM OF TWO APPLICATIONS OF POWER WASHING.
- TWO APPLICATIONS OF PRODUCT SHALL BE ROLLED ON.

- NOTES:
- RE: CS101 FOR LOCATION.
  - FILL VOIDS BETWEEN PIPE & SLEEVE WITH SILICA SAND.
  - EXTEND PVC SLEEVE TO FINISH GRADE.
  - ADA SIGNAGE TO BE FASTENED TO FRAME USING POP RIVETS.
  - PAINT TO MATCH BUILDING FACADE.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: SAT  
DRAWN BY: CDC

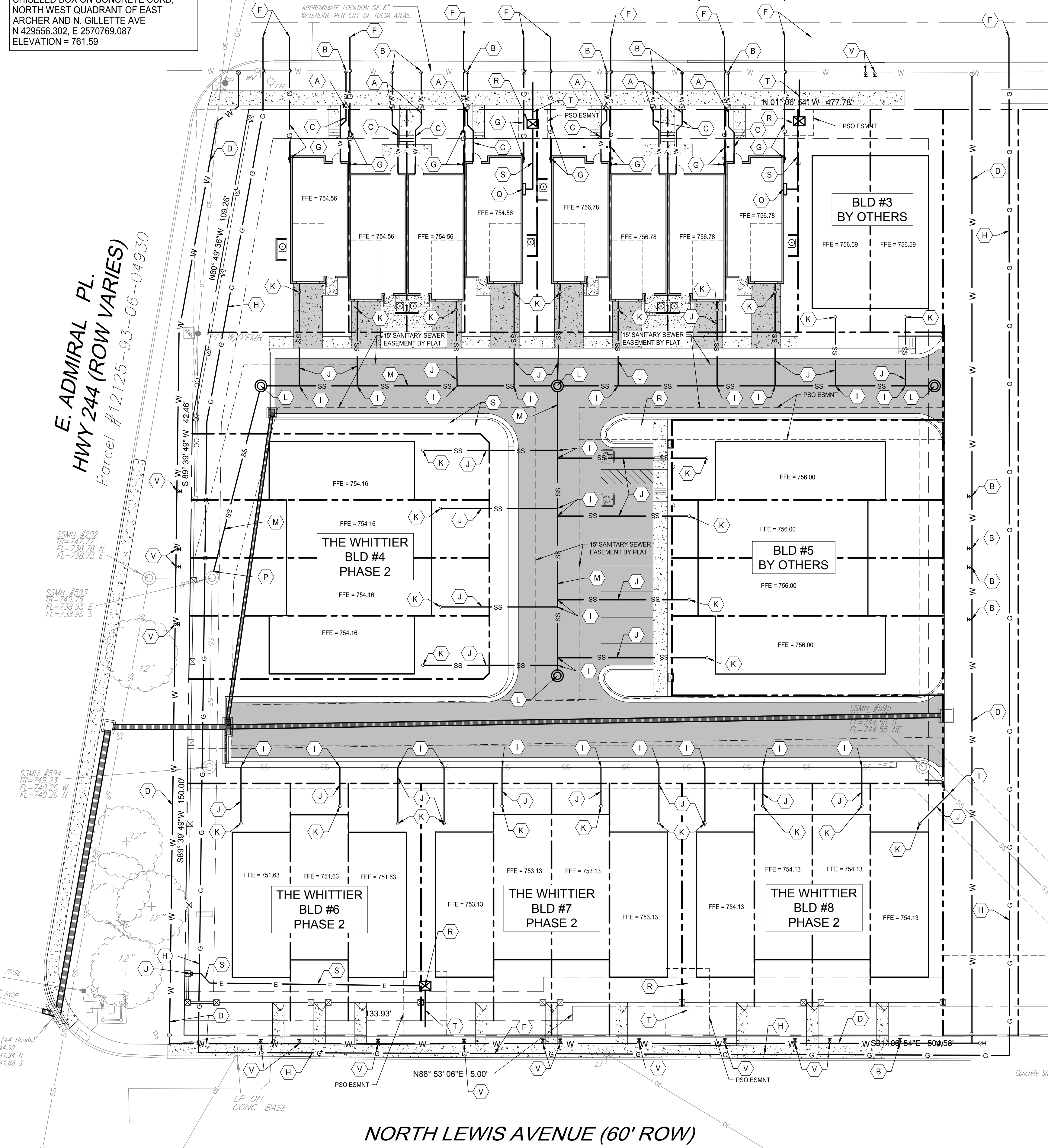
SHEET NAME  
DETAILS (2 OF 2)

SHEET NUMBER



BENCHMARK  
CHISELED BOX ON CONCRETE CURB,  
NORTH WEST QUADRANT OF EAST  
ARCHER AND N. GILLETTE AVE  
N 429556.302, E 2570769.087  
ELEVATION = 761.59

**NORTH GILLETTE AVENUE (60' ROW)**



**E. ADMIRAL PL.  
HWY 244 (ROW VARIES)  
Parcel #12125-93-06-04930**

**UTILITY KEY NOTES**

- (A) PROPOSED DOMESTIC 1-1/2" WATER METER SETTING (INSTALLED BY CITY). CONTRACTOR RESPONSIBLE FOR TAP & EQUITY FEES.
- (B) PROPOSED WATER SERVICE LINE TAP. CONNECT PER CITY OF TULSA PUBLIC WORKS DEPARTMENT REQUIREMENTS.
- (C) INSTALL 2" TYPE K COPPER DOMESTIC WATER SERVICE
- (D) INSTALL 6" WATER LINE (PER IDP 44145-2019)
- (E) NOT USED
- (F) PROPOSED POINT OF CONNECTION FOR GAS SERVICE/MAIN
- (G) GAS METER AND GAS LINE FROM METER TO GAS MAIN INSTALLED BY OTHERS.
- (H) GAS MAIN LINE (BY OTHERS)
- (I) PROPOSED POINT OF CONNECTION FOR SANITARY SEWER SERVICE. VERIFY FLOW LINE, IF NECESSARY ADJUST SLOPE AND FLOW LINES TO ACCOMMODATE ACTUAL TIE IN ELEVATION. TIE IN THE PROPOSED SERVICE PER CITY TULSA STANDARD SPECIFICATIONS AND DETAILS.
- (J) INSTALL 4" PVC SANITARY SEWER SERVICE LINE.
- (K) PROPOSED 4" CLEANOUT. RE: 4/CU501
- (L) INSTALL 4" DIA. SANITARY SEWER MANHOLE PER CITY OF TULSA STANDARD SPECIFICATIONS AND DETAILS. (PER IDP 44145-2019)
- (M) INSTALL 8" PVC SANITARY SEWER LINE (PER IDP 44145-2019)
- (N) NOT USED
- (O) NOT USED
- (P) POINT OF CONNECTION FOR 8" PVC SANITARY SEWER EXTENSION. CONNECT TO EXISTING MANHOLE.
- (Q) ELECTRIC METER BANKS. RE: ELECTRICAL PLANS, BY OTHERS
- (R) ELECTRIC TRANSFORMER AND PAD BY OTHERS
- (S) SECONDARY ELECTRIC SERVICE LINE/CONDUIT
- (T) PRIMARY ELECTRIC LINE CONDUIT (4"). CONTRACTOR TO COORDINATE WITH PSO LOCATION AND CONNECTION POINT.
- (U) HOUSE ELECTRICAL PANEL. RE: ELECTRICAL PLANS FOR DETAILS
- (V) PROPOSED WATER SERVICE LINE TAP AND CAP FOR FUTURE USE. CONNECT PER CITY OF TULSA PUBLIC WORKS DEPARTMENT REQUIREMENTS.

**CAUTION EXISTING UTILITIES !!!**  
EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY BOTH HORIZONTALLY AND VERTICALLY THE LOCATION OF ALL EXISTING UTILITIES AND UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, TO TAKE THE NECESSARY PRECAUTIONS IN ORDER TO PROTECT ALL FACILITIES ENCOUNTERED. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION.

**LEGEND (ABBREVIATIONS)**

- CICI CAST IRON CURB INLET
- CMP CORRUGATED METAL PIPE
- CO SANITARY SEWER CLEAN OUT
- ES ELECTRICAL SECONDARY UNDERGROUND
- F.F.E. FINISH FLOOR ELEVATION
- FL FLOW LINE
- G GUTTER
- GL GAS LINE
- HDPE HIGH-DENSITY POLYETHYLENE
- IE INVERT ELEVATION
- LF LINEAR FOOT
- LS LANDSCAPE AREA
- O.C. ON CENTER
- OE OVERHEAD ELECTRICAL LINE
- PP POWER POLE
- R RADIUS
- SD STORM DRAIN
- SS SANITARY SEWER LINE
- SSMH SANITARY SEWER MANHOLE
- SM THICK
- TC TOP OF CURB
- TG TOP OF GRATE
- TSB TRAFFIC SIGNAL BOX
- TSP TRAFFIC SIGNAL POLE
- TYP TYPICAL
- UE UNDERGROUND ELECTRICAL LINE
- UT UNDERGROUND TELEPHONE LINE
- W WIDE

**UTILITY NOTES**

1. THE CONTRACTOR SHALL CONTACT "OKIE" AT 811 OR 800-522-6543, THREE (3) WORKING DAYS BEFORE BEGINNING ANY WORK, SO EXISTING UNDERGROUND UTILITIES MAY BE LOCATED AND MARKED.
2. UTILITY TRENCHING AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE CITY OF TULSA REQUIREMENTS, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND NATIONAL SAFETY STANDARDS.
3. UTILITY CONSTRUCTION SHALL CONFORM TO CITY OF TULSA STANDARDS.
4. MANHOLE LIDS AND SLEEVES IN PAVED AREAS SHALL BE HS-25 TRAFFIC RATED.
5. WATER LINES SHALL BE INSTALLED WITH AT LEAST 36" COVER.
6. MAINTAIN MINIMUM 10 FEET HORIZONTAL CLEARANCE BETWEEN WATER PIPE AND SANITARY SEWER PIPE. RE: 3/CU501 FOR MINIMUM VERTICAL CLEARANCE REQUIREMENTS.
7. PROVIDE PIPE BOLLARDS AT LOCATIONS SHOWN AND AT LOCATIONS SPECIFIED BY THE OWNER, REGULATORY AGENCIES AND UTILITY COMPANIES. COORDINATE BOLLARD INSTALLATION WITH FINISHED PAVING GRADE.
8. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
9. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, MEASUREMENTS AND LOCATIONS OF EXISTING FACILITIES, UTILITIES, EQUIPMENT AND OTHER EXISTING ITEMS WHICH MAY EFFECT CONSTRUCTION SCHEDULES AND NEW UTILITY DESIGN.
10. EXISTING UTILITY LOCATIONS ARE SHOWN APPROXIMATELY AND FOR GENERAL INFORMATION PURPOSES ONLY. THE CONTRACTOR IS TO VERIFY THE LOCATION, DEPTH AND INVERT OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO THE START OF CONSTRUCTION.
11. DURING CONSTRUCTION TEMPORARY PLUGS SHALL BE INSTALLED AT ALL OPENINGS WHENEVER ANY PIPELINE IS LEFT UNATTENDED.
12. CONTRACTOR IS RESPONSIBLE FOR KEEPING A MINIMUM OF ONE LANE OF A ROADWAY OPEN DURING CONSTRUCTION. TEMPORARY ROADWAY OR BY-PASS PAVEMENT MUST BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION UNTIL PERMANENT PAVEMENT REPLACEMENT IS INSTALLED.
13. ADEQUATE EMERGENCY VEHICLE AND PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES TO ROADWAYS, DRIVEWAYS AND BUILDING ENTRANCES.
14. ALL SANITARY SEWER LINES SHALL BE PVC SDR-35 PIPE. PIPE SHALL BE LAID UPSTREAM WITH THE SPIGOT ENDS POINTING DOWNSTREAM. ALL PIPES SHALL BE PLACED TRUE TO LINE AND GRADE WITH ENDS ABUTTING, CAREFULLY CENTERED, AND WITH A SMOOTH INVERT AT THE JOINTS.
15. CONTRACTOR IS TO REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR EXACT LOCATIONS OF UTILITY PENETRATIONS AND ELEVATIONS.
16. THE AIR CONDITIONING CONDENSING UNIT LOCATIONS ARE APPROXIMATE. THE CONTRACTOR IS TO COORDINATE THEIR BEST AND FINAL LOCATION WITH THE OWNER AND HVAC CONTRACTOR.

**UTILITY INSTALLATION CONSIDERATIONS**

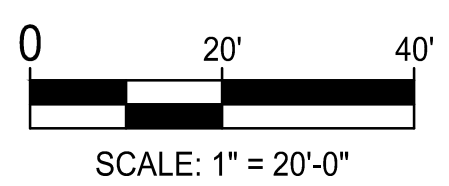
1. PRIOR TO THE CONSTRUCTION OF, OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, OR ANY OTHER ELEVATION SENSITIVE UTILITY, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTIONS AND ALL UTILITY CROSSINGS. THE CONTRACTOR SHALL INFORM THE ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. THE ENGINEER AND OWNER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER AND OWNER ARE NOT NOTIFIED OF A DESIGN CONFLICT.
2. ALL PROPOSED UTILITIES, WHEN POSSIBLE, SHALL BE ROUTED THROUGH PERVIOUS AREAS - SPECIFICALLY AVOIDING ON-SITE PAVED AREAS DESIGNATED FOR PARKING, ACCESS, AND VEHICULAR TRAFFIC FLOW.
3. REFER TO DETAIL 1 AND 2, SHEET CU501, FOR TRENCHING, BACKFILL, AND PLACEMENT DETAILS.
4. BACKFLOW PREVENTER TO BE PLACED INSIDE THE BUILDING, MOUNTED 12" TO 60" FROM THE FLOOR, BE ACCESSIBLE, INSTALLED BEFORE ANY OTHER CONNECTION IN THE BUILDING AND BE WITHIN 200' FROM THE CONNECTION TO THE WATER MAIN (RE: MEP).

**LEGEND**

- TUG — EXISTING UNDERGROUND TELEPHONE
- OHE — EXISTING OVERHEAD ELECTRICAL
- UGE — EXISTING UNDERGROUND ELECTRICAL
- GAS — EXISTING NATURAL GAS
- W — EXISTING WATER LINE
- SS — EXISTING SANITARY SEWER
- FOC — EXISTING FIBER OPTIC CABLE
- CATV — EXISTING CABLE TELEVISION

**NORTH LEWIS AVENUE (60' ROW)**

**1 UTILITY PLAN**  
SCALE: 1" = 20'



**CYNTERGY**  
810 SOUTH CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000  
www.cyntergy.com

ROBERT L. DAY, P.E.  
ENGINEER OF RECORD

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: SAT  
DRAWN BY: CDC

SHEET NAME  
**UTILITY PLAN**

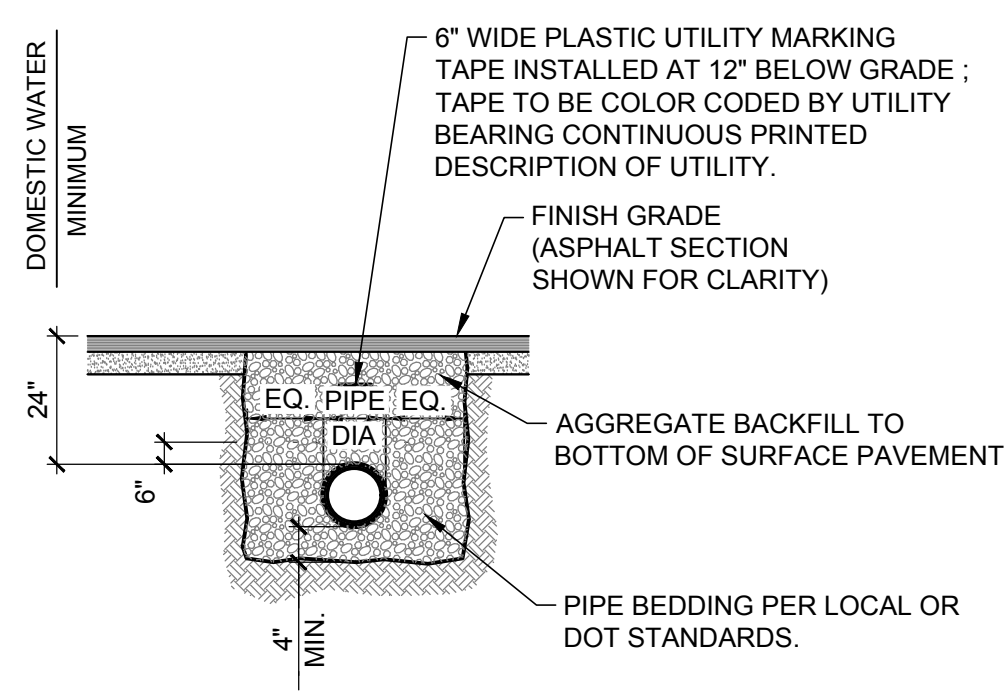
SHEET NUMBER



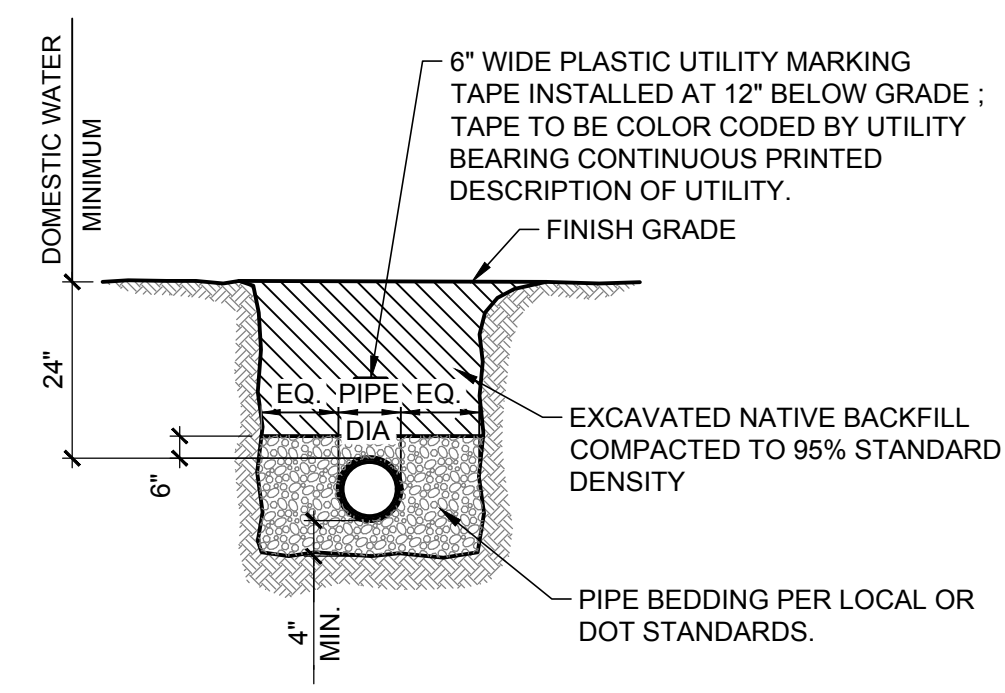
**CU101**



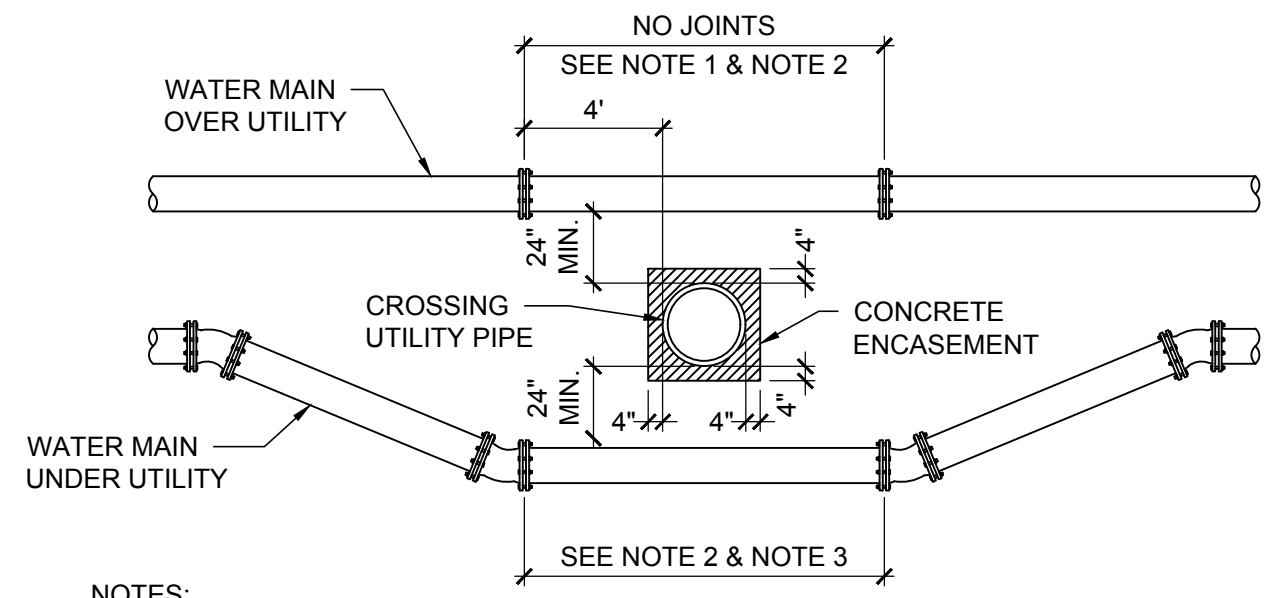
ROBERT L. DAY, P.E.  
ENGINEER OF RECORD



**1 TRENCH DETAIL (PAVED AREAS)**  
SCALE: NOT TO SCALE

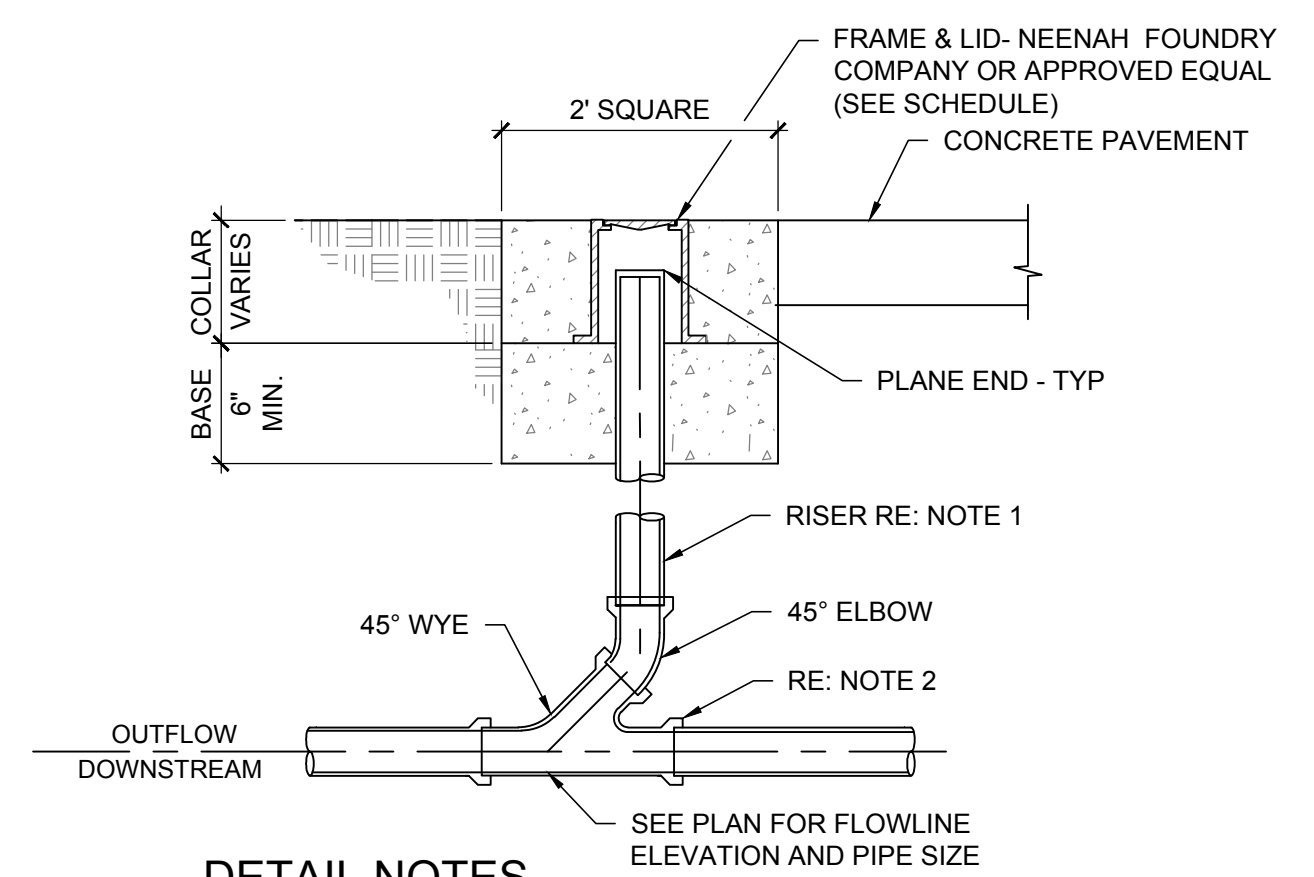


**2 TRENCH DETAIL (UNPAVED AREAS)**  
SCALE: NOT TO SCALE



- NOTES:
1. WHEN THE UTILITY BEING CROSSED IS NOT A STORM DRAIN, SANITARY SEWER, OR A NON-POTABLE WATER LINE, THEN THE "NO JOINT" REQUIREMENT DOES NOT APPLY.
  2. WHEN THE UTILITY BEING CROSSED IS A STORM DRAIN, SANITARY SEWER, OR A NON-POTABLE WATER LINE, EITHER ABOVE OR BELOW THE POTABLE WATERLINE, AND THE MINIMUM CLEARANCE IS 24", THEN THE TYPE OF PIPE MUST BE DUCTILE IRON PIPE OR AWWA C900 DR-14 PVC PIPE. IF THE CLEARANCE IS LESS THAN 24" THEN THE CROSSING UTILITY MUST ALSO BE ENCASED WITH 4 INCHES OF CONCRETE, MINIMUM FOR A DISTANCE 20', 10' ON EITHER SIDE OF THE WATERLINE.
  3. NO JOINTS ALLOWED IF LESS THAN 18 FEET, OR LESS THAN 20 FEET IF THE UTILITY BEING CROSSED IS SEWER. ALL JOINTS BETWEEN FITTINGS MUST BE RESTRAINED.

**3 UTILITY CROSSING DETAIL**  
SCALE: NOT TO SCALE



- DETAIL NOTES**
1. RISER DIAMETER TO MATCH DOWNSTREAM PIPE SIZE. MAXIMUM RISER DIAMETER IS 10 INCHES.
  2. WHERE LINE DOES NOT EXTEND, INSTALL A PLUG OR SUBSTITUTE A LENGTH OF STRAIGHT PIPE AND ANOTHER 45° ELBOW FOR WYE.

**4 CLEANOUT DETAIL**  
SCALE: NOT TO SCALE

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

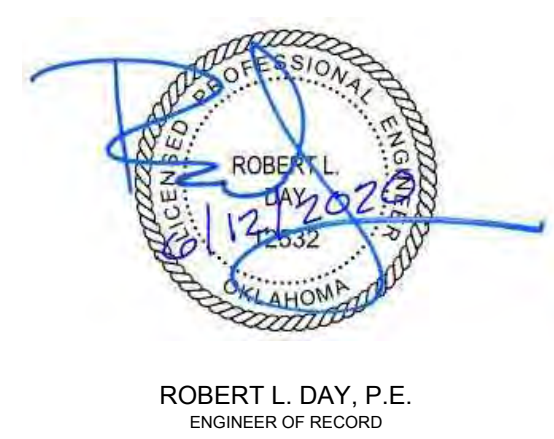
NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: SAT  
DRAWN BY: CDC

SHEET NAME  
UTILITY DETAILS

SHEET NUMBER





ROBERT L. DAY, P.E.  
 ENGINEER OF RECORD

**NORTH GILLETTE AVENUE (60' ROW)**

**GRADING PLAN KEY NOTES**

- A MATCH EXISTING
- B INSTALL NYLOPLAST INLINE 8" YARD DRAIN WITH 4" THICK CONCRETE COLLAR, RE: 7/CS501
- C INSTALL 8" N-12 HDPE STORM DRAIN AT 1% MINIMUM
- D CUT END OF PIPE TO MATCH SLOPE AND ADD 4" THICK CONCRETE COLLAR, RE: 8/CS501
- E CONSTRUCT SWALE

**LEGEND (ABBREVIATIONS)**

- CICI CAST IRON CURB INLET
- CMP CORRUGATED METAL PIPE
- CO SANITARY SEWER CLEAN OUT
- ES ELECTRICAL SECONDARY UNDERGROUND
- F.F.E. FINISH FLOOR ELEVATION
- FL FLOW LINE
- G GUTTER
- GL GAS LINE
- HDPE HIGH-DENSITY POLYETHYLENE INVERT ELEVATION
- IE LINEAR FOOT
- LF LANDSCAPE AREA
- O.C. ON CENTER
- OE OVERHEAD ELECTRICAL LINE
- PP POWER POLE
- R RADIUS
- SD STORM DRAIN
- SS SANITARY SEWER LINE
- SSMH SANITARY SEWER MANHOLE
- T THICK
- TC TOP OF CURB
- TG TOP OF GRATE
- TSB TRAFFIC SIGNAL BOX
- TSP TRAFFIC SIGNAL POLE
- TYP TYPICAL
- UE UNDERGROUND ELECTRICAL LINE
- UT UNDERGROUND TELEPHONE LINE
- W WIDE

**GRADING PLAN NOTES**

1. THE CONTRACTOR SHALL CONTACT "OKIE" AT 811 OR 800-522-6543, THREE (3) WORKING DAYS BEFORE BEGINNING ANY WORK, SO EXISTING UNDERGROUND UTILITIES MAY BE LOCATED AND MARKED.
2. EXISTING UTILITIES ARE SHOWN APPROXIMATELY AND FOR GENERAL INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. MANHOLE LIDS AND SLEEVES IN PAVED AREAS SHALL BE HS-25 TRAFFIC RATED.
4. PROVIDE PIPE BOLLARDS AT LOCATIONS SHOWN AND AT LOCATIONS SPECIFIED BY THE OWNER, REGULATORY AGENCIES AND UTILITY COMPANIES. COORDINATE BOLLARD INSTALLATION WITH FINISHED PAVING GRADE.
5. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
6. UNLESS OTHERWISE SHOWN, NEW PAVING SHALL BE CONSTRUCTED TO ALLOW FOR POSITIVE DRAINAGE TO CATCH BASIN, CURB, GUTTER, AND OTHER RUNOFF COLLECTION DEVICES. NEW PAVEMENT SLOPE SHALL BE MINIMUM 0.50% FOR CONCRETE AND 1.5% FOR ASPHALT UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ARCHITECT/ENGINEER.
7. ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED SHALL BE SODDED UNLESS NOTED OTHERWISE.
8. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL MEASURES AND TO COMPLY WITH OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY STANDARDS.
9. EXISTING BOUNDARY AND TOPOGRAPHIC SURVEY WAS PREPARED BY SISEMORE WEISZ & ASSOCIATES, INC., TULSA, OKLAHOMA. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF EXISTING GROUND CONDITIONS ARE NOT REPRESENTATIVE IN THE FIELD.
10. THE CONTRACTOR SHALL KEEP THE SITE CLEAN AT ALL TIMES AND CONTROL DUST RESULTING FROM THE EARTHWORK OPERATIONS. THE CONTRACTOR SHALL NOT TRACK MUD ON THE PUBLIC STREETS.
11. NEW CONTOURS DENOTE TOP OF FINISHED PAVING AND GRADED AREA AS INDICATED. ALL PROPOSED ELEVATIONS ARE TOP OF CURB, GUTTER OR FINISH GRADE AS INDICATED ON THE PLANS, UNLESS NOTED OTHERWISE.
12. ALL ROOF DRAIN PIPES ARE POLYVINYL CHLORIDE (PVC) OR HDPE, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
13. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND SHALL NOT DAMAGE OR DISTURB ANY SERVICE. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY DAMAGED UTILITIES CAUSED BY HIS CONSTRUCTION OPERATIONS.
14. BEDDING MATERIALS SHALL BE OF GRADE AS SPECIFIED IN THE CITY OF TULSA STANDARD SPECIFICATIONS. PIPES SHALL BE PLACED ON AT LEAST 6-INCHES OF BEDDING MATERIALS, AND BACKFILLED WITH SAME MATERIALS.
15. ADJUST ALL VALVE BOXES AND MANHOLE COVERS TO FINISHED GRADE WHEN APPLICABLE.
16. THE CONTRACTOR SHALL COMPLY WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), TO MAINTAIN A VIABLE TRENCH SAFETY SYSTEM AT ALL TIMES.
17. THE CONTRACTOR SHALL FURNISH ALL BONDS AND INSPECTION FEES AS REQUIRED BY THE CITY OF TULSA.
18. IF FIELD GRADE ADJUSTMENTS ARE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
19. IF A CONFLICT EXISTS BETWEEN THE PLANS, SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ARCHITECT/ENGINEER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED PERMITS AND FOR CONTACTING THE CITY TO ARRANGE FOR A PRE-CONSTRUCTION CONFERENCE IF SO REQUESTED BY THE CITY, PRIOR TO THE START OF CONSTRUCTION.
21. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY.
22. FOR PAVEMENT THICKNESS'S AND MATERIAL SPECIFICATIONS, REFER TO PLAN SHEETS AND/OR DETAILS SHEETS.
23. UNDERGROUND UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL STANDARD SPECIFICATIONS AND DETAILS.
24. SIDEWALK JOINTS SHALL BE PLACED IN ACCORDANCE WITH DETAIL 2/C501.
25. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. ANY DISCREPANCY FOUND SHALL BE DISCUSSED WITH THE ENGINEER OF RECORD PRIOR TO ANY CONSTRUCTION WORK.

**THE WHITTIER - PHASE 1**  
 BOOMTOWN DEVELOPMENT COMPANY  
 68 NORTH LEWIS  
 TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
 PROJECT NO: P05093.0100  
 CHECKED BY: SAT  
 DRAWN BY: CDC

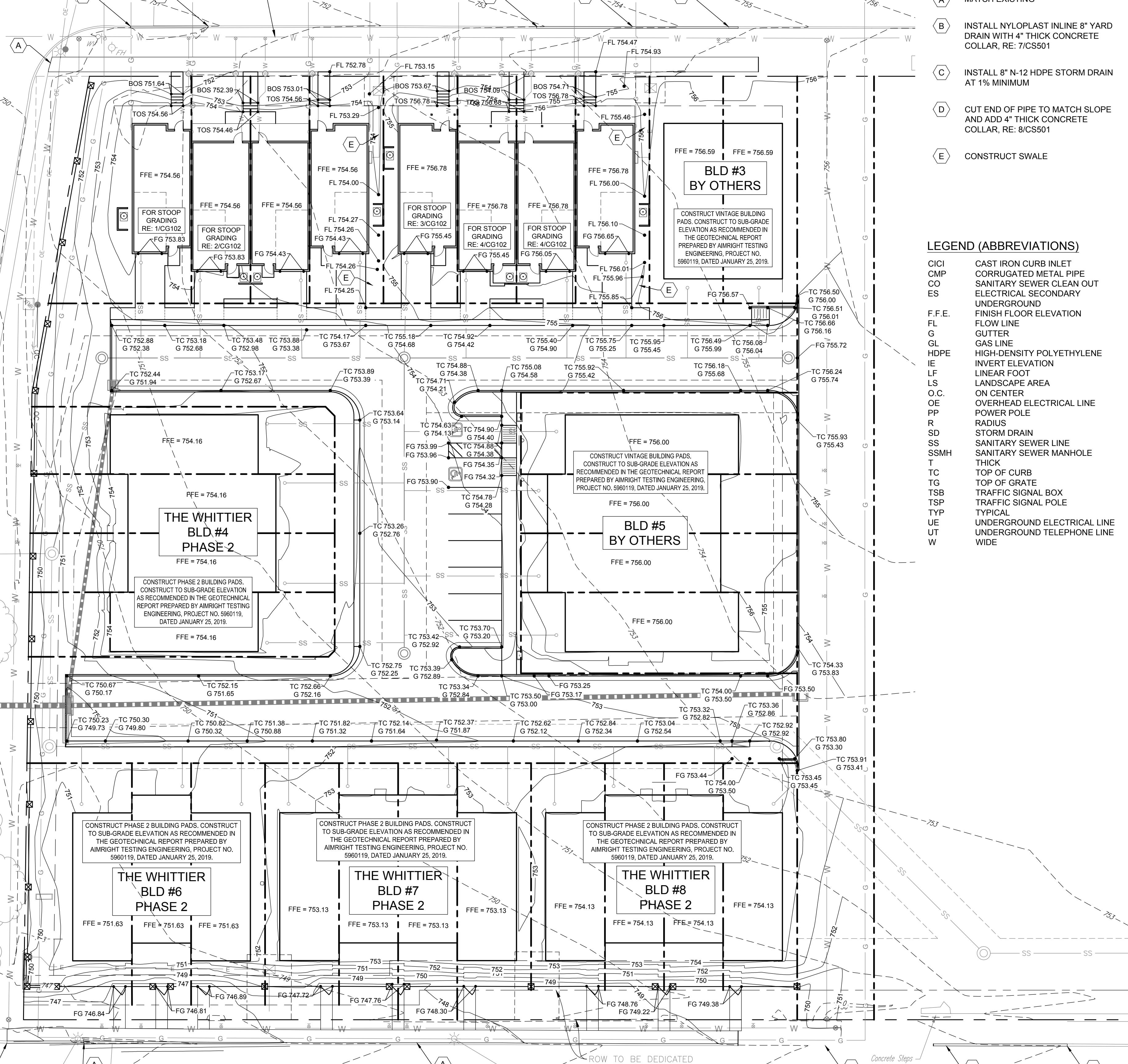
SHEET NAME  
 GRADING PLAN

SHEET NUMBER



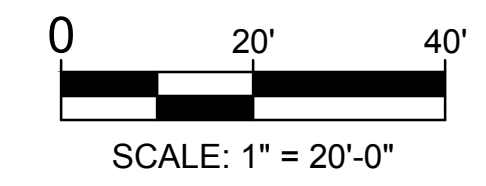
**E. ADMIRAL PL.**  
**HWY 244 (ROW VARIES)**  
 Parcel #12125-93-06-04930

NOTE:  
 SEE IDP NO. 44145-2019 FOR ALL STORM DRAIN DESIGN DETAILS, ELEVATIONS, PIPE LENGTHS, TABLES AND CALCULATIONS.



**NORTH LEWIS AVENUE (60' ROW)**

**1 GRADING PLAN**  
 SCALE: 1" = 20'

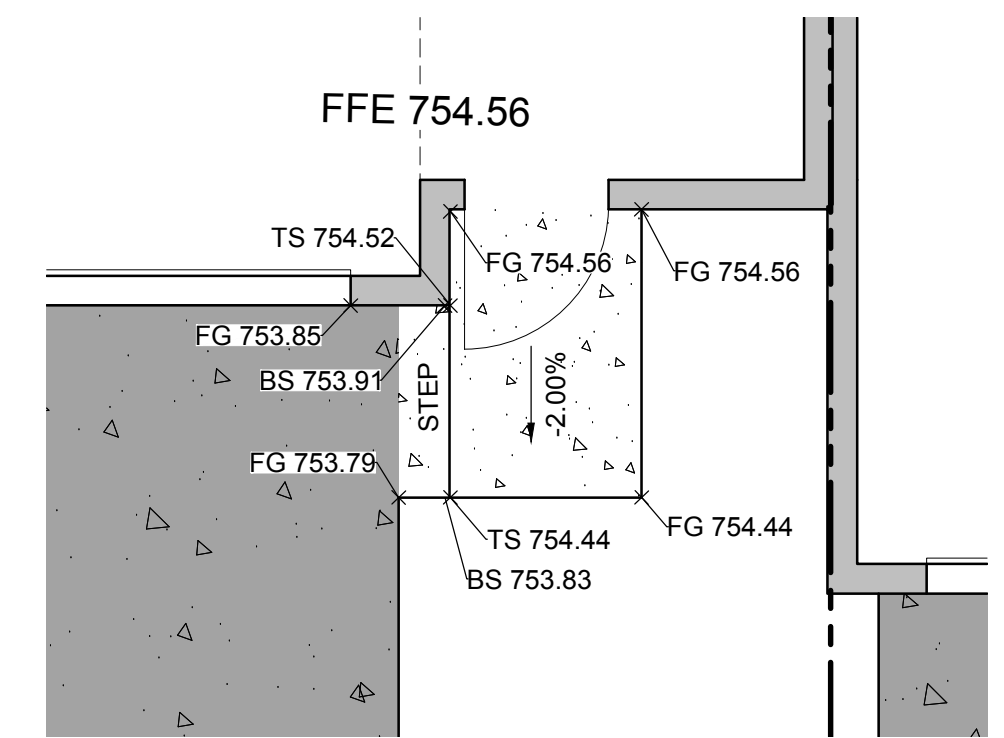


**GRADING PLAN LEGEND**

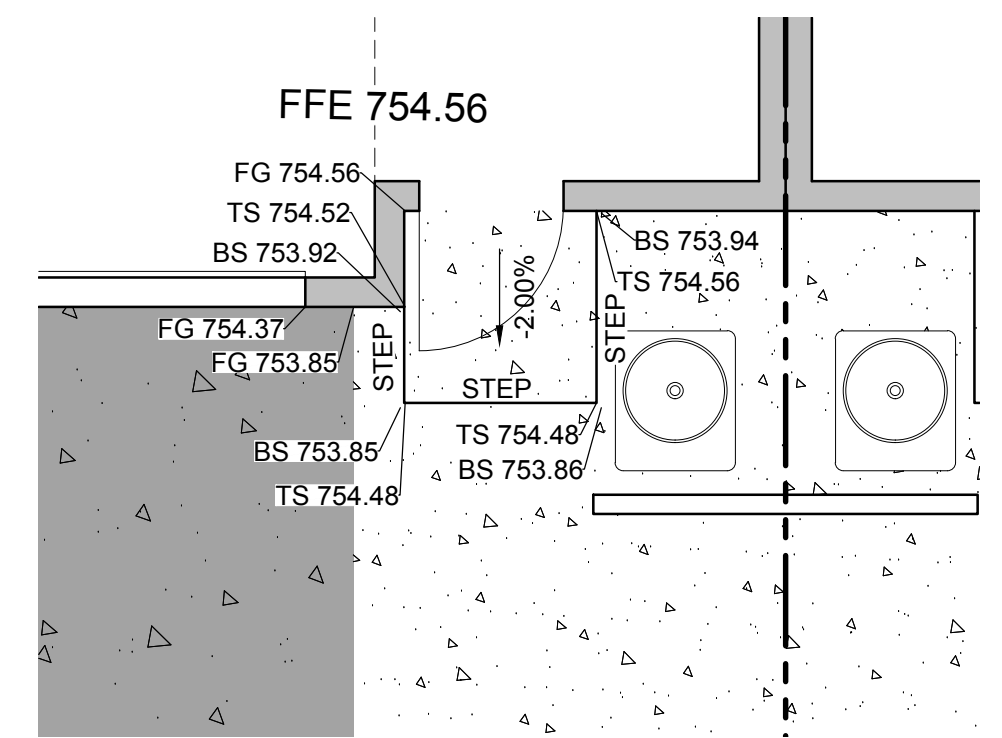
- LOT 2 PROPERTY LINE
- - - 1.360' CONTOUR LINE (EXISTING)
- - - 1.368' CONTOUR LINE (NEW)
- DRAINAGE FLOW ARROW
- TC 550.18 TOP OF CURB ELEVATION (NEW)
- G 549.69 GUTTER ELEVATION (NEW)
- FG 549.87 TOP OF PAVEMENT ELEVATION (NEW)
- TOS TOP OF STEPS
- BOS BOTTOM OF STEPS
- OFF GARAGE FINISH FLOOR ELEVATION



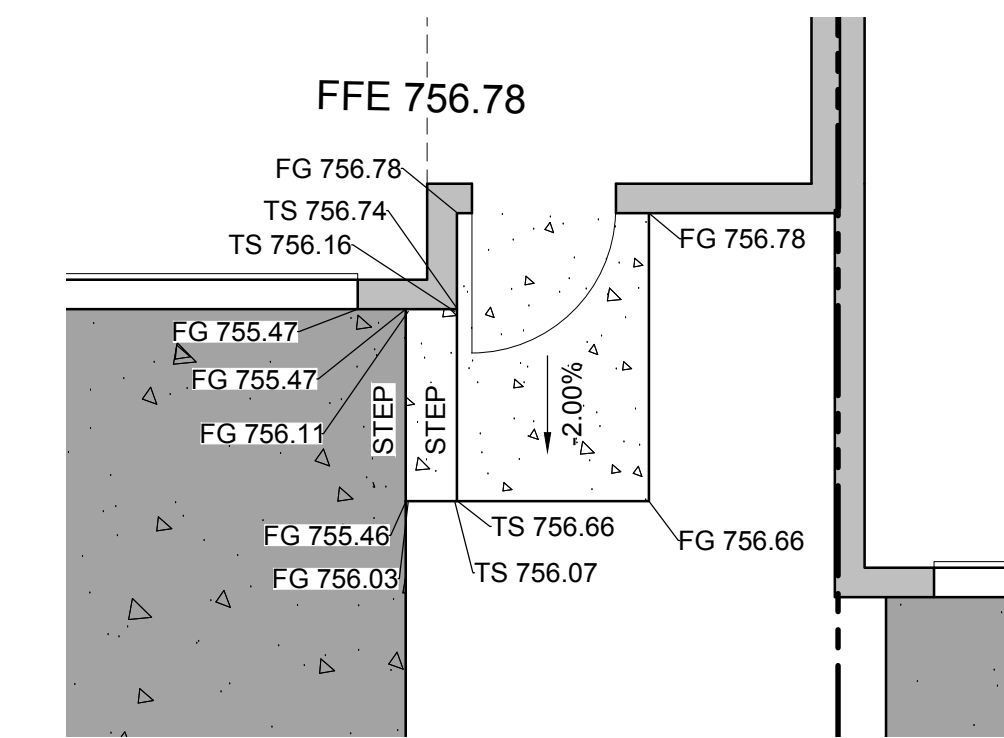
ROBERT L. DAY, P.E.  
ENGINEER OF RECORD



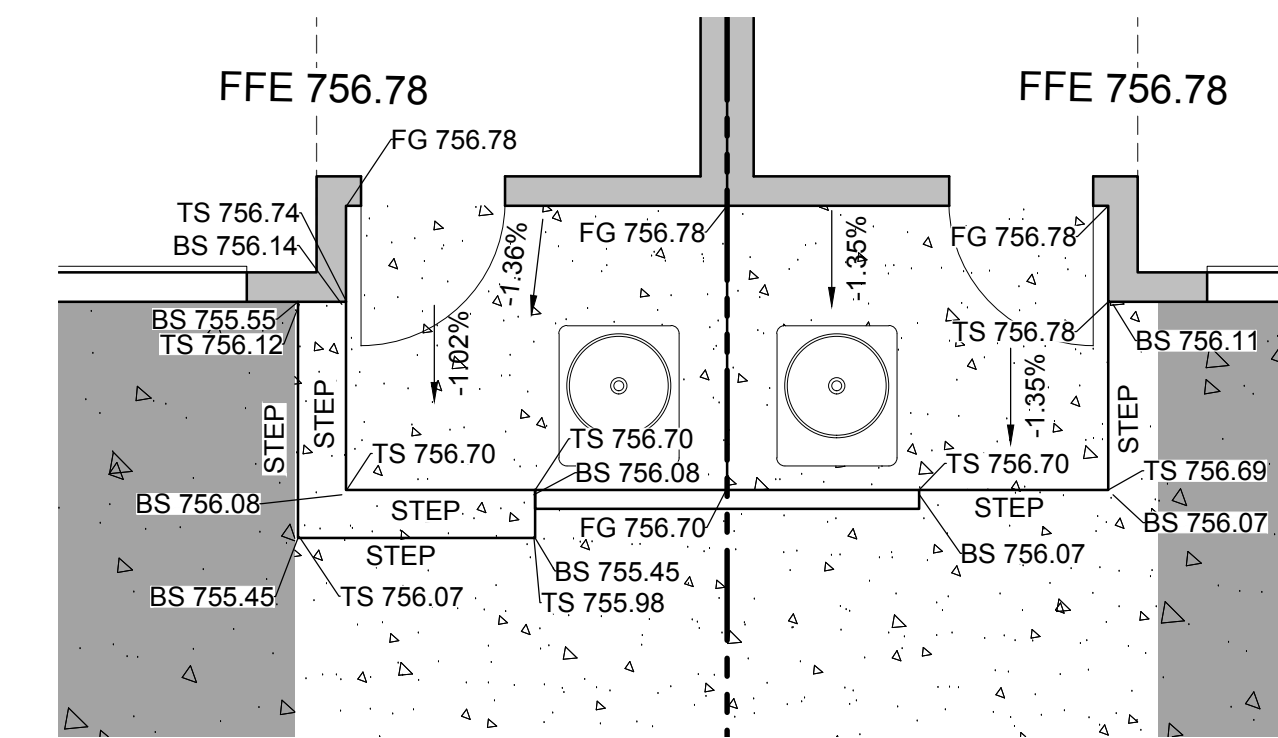
**1** STOOP GRADING DETAIL "1A"  
SCALE: 1" = 4"  
NORTH



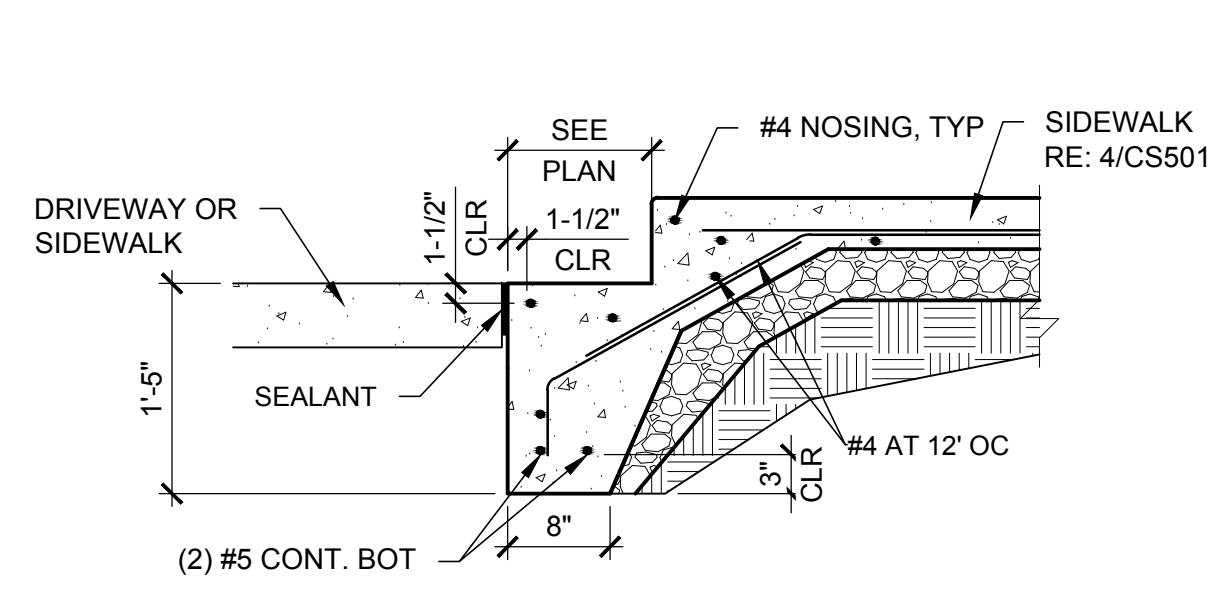
**2** STOOP GRADING DETAIL "1B"  
SCALE: 1" = 4"  
NORTH



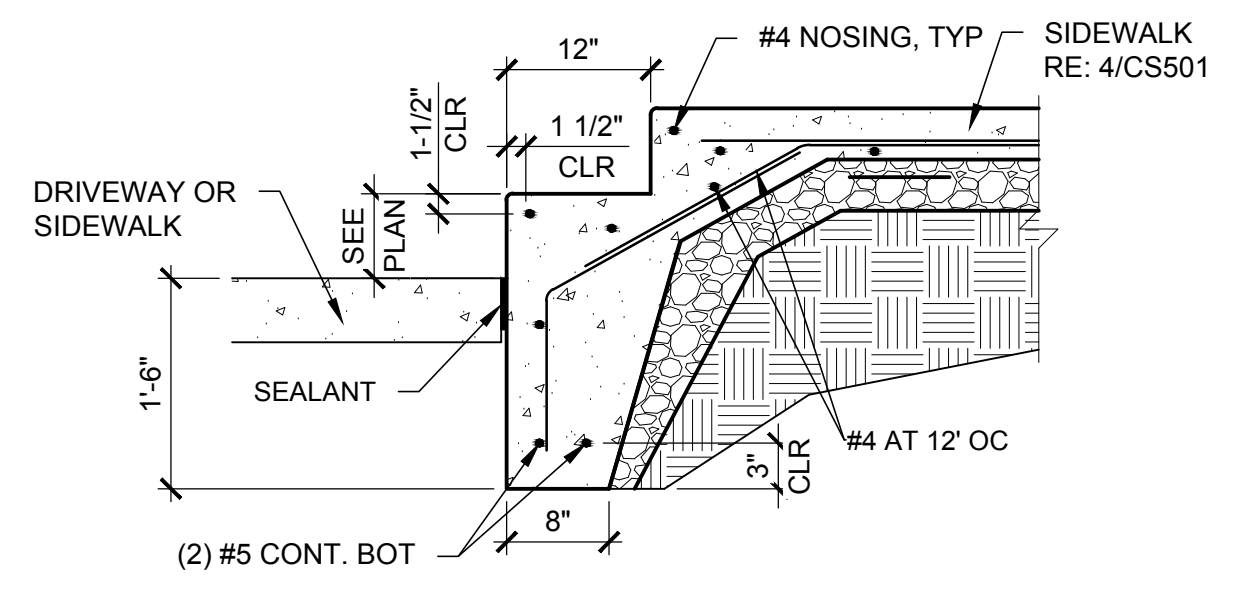
**3** STOOP GRADING DETAIL "2A"  
SCALE: 1" = 4"  
NORTH



**4** STOOP GRADING DETAIL "2B & 2C"  
SCALE: 1" = 4"  
NORTH



**5** ONE STEP TYPICAL SECTION  
SCALE: NOT TO SCALE



**6** TWO STEP TYPICAL SECTION  
SCALE: NOT TO SCALE

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: SAT  
DRAWN BY: CDC

SHEET NAME  
STOOP GRADING DETAILS

SHEET NUMBER



C:\Users\alvarez\OneDrive\Documents\Whittier\Phase 1\Drawings\2018\stoopecv.dwg, 12/12/2023 10:00:00 AM

DESIGN CRITERIA

- 1. THE STRUCTURAL DESIGN IS BASED ON THE DESIGN REQUIREMENTS OF THE INTERNATIONAL RESIDENTIAL CODE, 2015 EDITION, WITH CITY OF TULSA AMENDMENTS.
2. ROOF DESIGN LOADS
LIVE LOAD 20 PSF
DEAD LOADS
TOP CHORD SHINGLES & ROOFING 3 PSF
SHEATHING 2 PSF
TRUSSES AND BRIDGING 2 PSF
INSULATION 1 PSF
MEP 1 PSF
MISC 1 PSF
BOTTOM CHORD 2 PSF
MEP 2 PSF
TRUSSES AND BRIDGING 3 PSF
CEILING 3 PSF
MISC 1 PSF
TOTAL DEAD LOAD 20 PSF
SNOW LOADS AND COEFFICIENTS
SNOW EXPOSURE FACTOR 1.0
GROUND SNOW 10 PSF
ROOF SNOW 10 PSF
IMPORTANCE FACTOR 1.0
THERMAL FACTOR 1.0
3. FLOOR DESIGN LOADS:
LIVE LOAD 40 PSF
DEAD LOADS
FLOORING 3 PSF
JOISTS AND BRIDGING 5 PSF
MECHANICAL, ELECTRICAL AND PLUMBING 4 PSF
SUSPENDED CEILING 4 PSF
MISC 1 PSF
TOTAL DEAD LOAD 20 PSF
NON-MOVEABLE PARTITION WALLS 10 PSF
4. LATERAL LOADS
WIND LOADS AND COEFFICIENTS
ULTIMATE DESIGN WIND VELOCITY 115 MPH
EXPOSURE C
SEISMIC DESIGN
IMPORTANCE FACTOR 1.0
S/S 0.131
S/I 0.069
SITE CLASS C
S/Ds 0.104
S/D1 0.078
SEISMIC DESIGN CATEGORY B
BASIC SEISMIC FORCE RESISTING SYSTEM:
LIGHT FRAMED WALLS SHEATHED WITH OTHER MATERIALS
ANALYSIS PROCEDURE:
EQUIVALENT LATERAL FORCE PROCEDURE 2

GENERAL NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY SUPPORT AND STABILITY OF EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
2. COORDINATE ALL DIMENSIONS WITH FLOOR PLAN; NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
3. COORDINATE THE EXACT SIZE AND LOCATION OF ALL SLEEVES AND OPENINGS THROUGH CONCRETE, MASONRY, OR STUD WALLS AND CONCRETE FLOORS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
4. SHOP DRAWINGS MUST INDICATE CHANGES TO CONSTRUCTION DOCUMENTS. THE CHANGES MUST BE CLEARLY IDENTIFIED. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR CHANGES ON SHOP DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL CHANGES TO THE DESIGN PROVIDED ON THE SHOP DRAWINGS. THE ARCHITECT/ENGINEER SHALL NOT BEAR THE COSTS OF SUCH REVIEWS OR REDESIGN.
5. PROJECT SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS AND ARE TO BE USED IN CONJUNCTION WITH THE DRAWINGS.
6. VERIFY ALL CONDITIONS, EXISTING AND NEW, SHOWN ON THE CONSTRUCTION DOCUMENTS PRIOR TO PROCEEDING WITH WORK. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITTEN FORM. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR WORK DONE IN THESE AREAS WITHOUT CLARIFICATION IN WRITING FROM THE ARCHITECT/ENGINEER.
7. ALL PHASES OF CONSTRUCTION SHALL CONFORM TO THE MINIMUM STANDARDS OF THE CODE(S) NOTED IN 'DESIGN CRITERIA'.
8. DIMENSIONS SHOWN ON CONSTRUCTION DOCUMENTS TAKE PRIORITY OVER SCALED DIMENSIONS. IN SOME CASES PLANS AND DETAILS MAY NOT BE DRAWN TO SCALE FOR CLARITY.
9. DETAILS LABELED 'TYPICAL' ON THESE DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY ENGINEER OF ANY CONDITIONS NOT APPLICABLE TO THESE 'TYPICAL' DETAILS.
10. DO NOT LOAD THE CONCRETE SLAB ON GRADE WITH ERECTION EQUIPMENT. THE SLABS HAVE NOT BEEN DESIGNED FOR ERECTION EQUIPMENT LOADS. SHOULD THE CONTRACTOR REQUIRE ERECTION EQUIPMENT TO BE PLACED ON SLAB ON GRADE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SLAB IN THE AFFECTED AREAS.
11. DO NOT STACK CONSTRUCTION MATERIALS ON FLOORS OR ROOFS DURING CONSTRUCTION IN EXCESS OF 80 PERCENT OF THE DESIGN LIVE LOAD NOTED ON THESE PLANS.
12. THESE STRUCTURAL CONSTRUCTION DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH ANY ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, LANDSCAPE AND CIVIL CONSTRUCTION DOCUMENTS FOR THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE INFORMATION SHOWN ON ALL REFERENCED PLANS. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED IN WRITING SHOULD DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS BE FOUND PRIOR TO COMMENCING WITH WORK IN THE AREA WHERE THE DISCREPANCY OCCURS. THE ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR WORK DONE IN THESE AREAS WITHOUT CLARIFICATION IN WRITING FROM THE ARCHITECT/ENGINEER.
13. SUBSTITUTION REQUESTS: APPROVAL FROM THE ARCHITECT/ENGINEER IS REQUIRED PRIOR TO SUBSTITUTING COMPARABLE MATERIALS OR MANUFACTURED OR PRE-ENGINEERED PRODUCTS THAT ARE INDICATED IN THE CONSTRUCTION DOCUMENTS. ALL REQUESTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE. ALL NECESSARY INFORMATION REQUIRED TO DETERMINE THE EQUIVALENCY OF THE SUBSTITUTED PRODUCT SUCH AS ICC EVALUATION REPORTS AND TESTING REPORTS SHALL BE PROVIDED. COMPARABLE PRODUCTS SUBMITTED MUST INCLUDE A DETAILED LINE-BY-LINE COMPARISON OF HOW THE SUBSTITUTED PRODUCT MEETS OR EXCEEDS THE GENERAL DESIGN, PERFORMANCE, AND QUALITY INDICATED IN THE CONSTRUCTION DOCUMENTS. THE MANUFACTURER OR CATALOG NUMBERS SHOWN IN THE CONSTRUCTION DOCUMENTS ESTABLISH A STANDARD FOR THE GENERAL DESIGN, PERFORMANCE, AND QUALITY OF THE PRODUCT REQUIRED. WHERE 'OR APPROVED EQUAL' IS INDICATED, OTHER PRODUCTS SIMILAR TO DESIGN ANALYSIS AND PERFORMANCE, AND COMPLYING WITH THE PLANS AND SPECIFICATIONS MAY BE APPROVED IF FOUND ACCEPTABLE BY THE ARCHITECT/ENGINEER. ALL SUBSTITUTION REQUESTS, INCLUDING 'ENGINEER APPROVED EQUALS', FOR EQUIPMENT AND MATERIALS SHALL BE SUBMITTED FOR REVIEW AFTER AWARD IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. UNLESS NOTED OTHERWISE, SUBSTITUTION REQUESTS SHALL BE SUBMITTED WITHIN 14 DAYS AFTER AWARD. THE CONTRACTOR SHALL BEAR THE COSTS FOR REVIEW AND APPROVAL OF ALL REQUESTED SUBSTITUTIONS.
14. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, AS WELL AS SEQUENCE OF CONSTRUCTION THAT DOES NOT IMPACT THE FINAL DESIGN AS SHOWN ON CONSTRUCTION DOCUMENTS.
15. MECHANICAL UNITS AND OTHER SYSTEMS SHOWN ON THE STRUCTURAL PLANS INDICATE A SPECIFIC WEIGHT AND LOCATION. SHOULD THE CONTRACTOR INSTALL UNITS WITH DIFFERENT WEIGHTS OR LOCATIONS AS SHOWN THEY SHALL PROVIDE THIS INFORMATION TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. THE ARCHITECT/ENGINEER SHALL NOT BEAR THE COSTS OF SUCH REVIEWS OR REDESIGN.

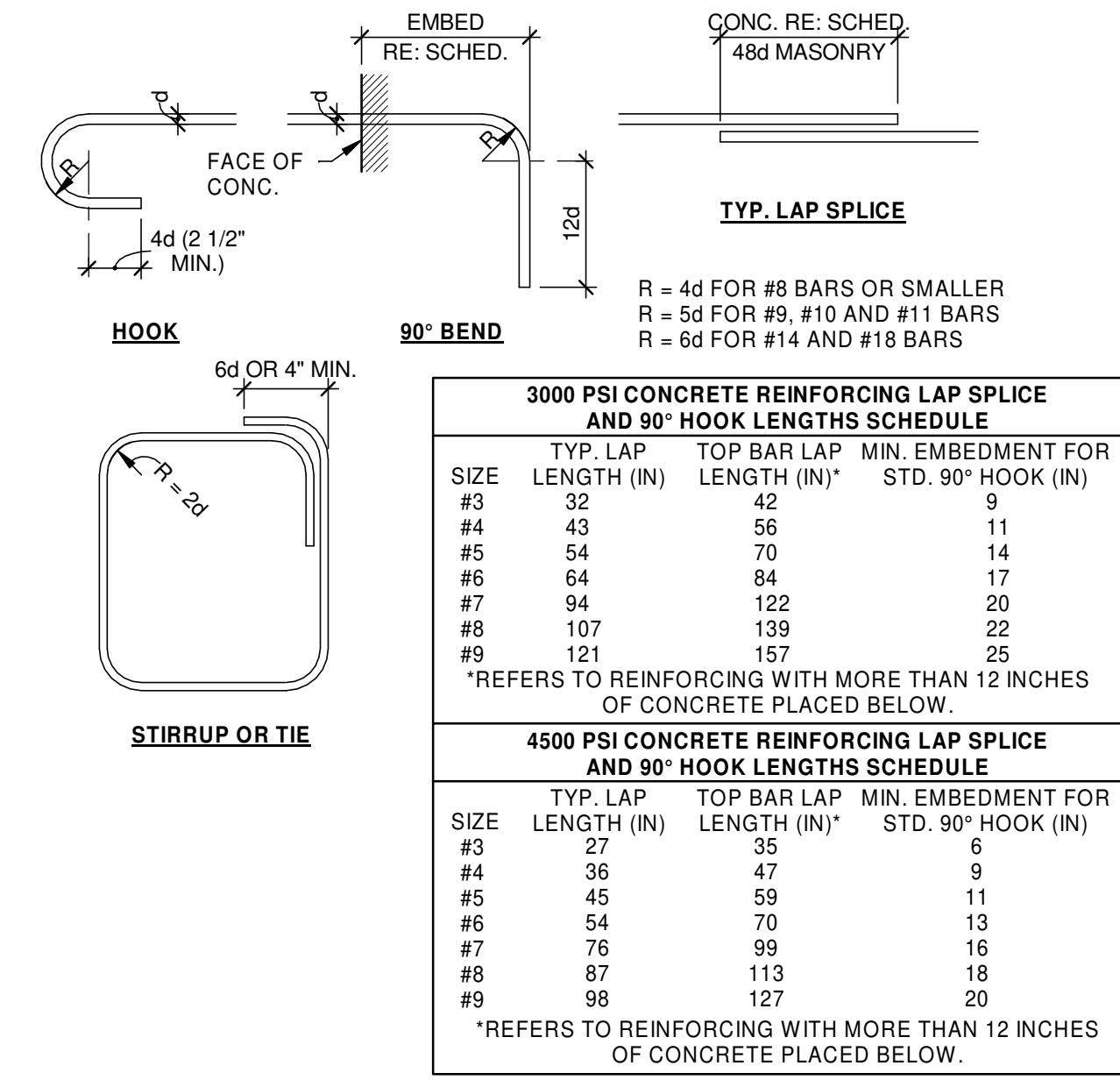
SHALLOW FOUNDATIONS

- 1. THE FOUNDATION DESIGN IS BASED UPON THE GEOTECHNICAL REPORT BY: AIMRIGHT TESTING AND ENGINEERING REPORT 5960119 DATED 01/25/19 WITH THE FOLLOWING RECOMMENDATIONS:
BEARING CAPACITY (TOTAL LOAD) = 2000 PSF
REQUIRED FOOTING WIDTH = 18 INCHES CONTINUOUS, 30 INCHES ISOLATED
REQUIRED BOTTOM OF EXTERIOR FOOTING DEPTH (FROST) = 24 INCHES
2. REFER TO CONSTRUCTION DOCUMENTS FOR TOP OF FOOTING ELEVATION AND THICKNESS OF FOOTING TO ESTABLISH BEARING ELEVATIONS.
3. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING FOR FOUNDATION WALLS RETAINING BACKFILL UNTIL CONCRETE SLAB ON GRADE IS IN PLACE AND THE CONCRETE HAS REACHED ITS FULL 28 DAY STRENGTH.
4. CONTRACTOR SHALL INSTALL ALL UNDERSLAB PIPING AND ELECTRICAL WORK AND RECOMPACT ANY DISTURBED STRUCTURAL FILL BEFORE INSTALLATION OF SLAB.
5. PIPES OR CONDUITS THAT PENETRATE FOOTINGS, GRADE BEAMS, WALLS, OR SLABS SHALL BE WRAPPED WITH A MINIMUM OF 1/2 INCH OF COMPRESSIBLE MATERIAL EXCEPT FLOOR DRAINS SHALL NOT BE WRAPPED WITH COMPRESSIBLE MATERIAL. CONTRACTOR SHALL COORDINATE PIPING AND CONDUIT ELEVATIONS THAT ARE PERPENDICULAR TO FOOTINGS OR GRADE BEAMS SO THAT PIPES ARE ABOVE FOOTINGS OR THROUGH THE MIDDLE THIRD OF THE GRADE BEAM DEPTH. AT CONTRACTORS OPTION, PIPES MAY RUN UNDER FOOTINGS. PIPES LESS THAN 2'-0" BELOW BOTTOM OF FOOTING SHALL BE ENCASED IN A CONCRETE SLURRY. WHEN PIPE IS MORE THAN 2'-0" BELOW BOTTOM OF FOOTING, SUBGRADE ABOVE PIPE MUST BE PROPERLY COMPACTED, CONCRETE SLURRY IS NOT NECESSARY.
6. ALL FOOTINGS MAY BE EARTH FORMED, POURED IN NEAT EXCAVATIONS IF SOIL CONDITIONS AND GEOTECHNICAL REPORT PERMIT.
7. DO NOT PLACE CONCRETE UNLESS FOOTING EXCAVATIONS ARE FREE OF ALL WATER, FROST, ICE AND LOOSE SOIL. CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION SO THAT EXCESSIVE DRYING OF BEARING MATERIALS DOES NOT OCCUR. BEARING MATERIAL SHALL BE INSPECTED BY A QUALIFIED INDEPENDENT TESTING LAB PRIOR TO PLACEMENT OF CONCRETE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING INFORMATION CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT FOR ALL SITE WORK, FOOTING EXCAVATIONS, GRADING, SITE PREPARATION, FILL, COMPACTION, AND ALL FOUNDATION WORK.

REINFORCING STEEL

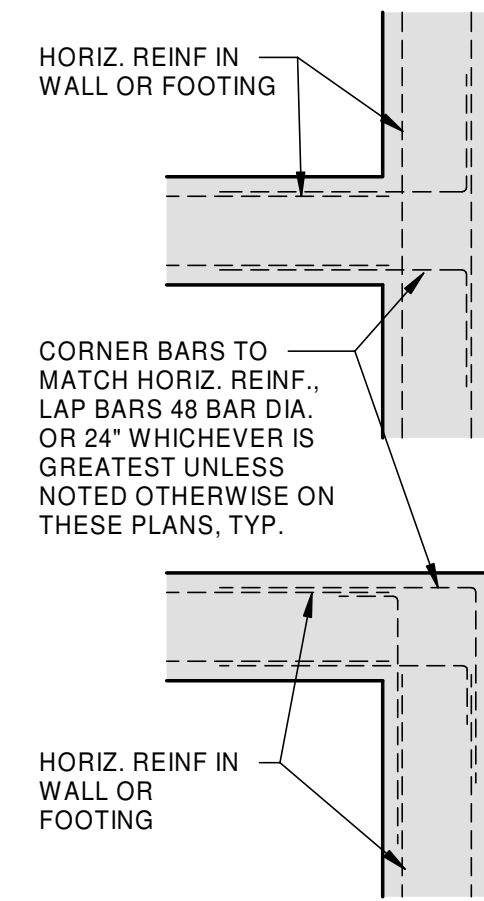
- 1. ALL REINFORCING STEEL AND SUPPORTS SHALL BE DESIGNED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318 AND ACI 315.
2. ALL REINFORCING BARS SHALL BE IN ACCORDANCE WITH ASTM A615 GRADE 60 OR ASTM A706 GRADE 60 FOR WELDED BARS.
3. WELDED WIRE REINFORCEMENT SHALL BE NEW BILLET STEEL, COLD DRAWN CONFORMING TO THE ASTM SPECIFICATION A185 AND A82. LAP WELDED WIRE REINFORCEMENT A MINIMUM OF 12".
4. ALL CONCRETE SLAB ON GRADE, RAISED CONCRETE SLAB, AND MAT REINFORCING SHALL BE SUPPORTED ON BOLSTERS OR BRICK SPACED NO FURTHER THAN 4 FEET ON CENTER.
5. ALL REINFORCING SHALL BE COLD BENT.
6. PROVIDE CLASS B SPLICES IN REINFORCING FOR CONTINUOUS REINFORCING. PROVIDE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318 UNLESS SPECIFICALLY DETAILED. REFER TO CONSTRUCTION DOCUMENTS FOR REQUIRED LAP LENGTHS. PROVIDE CONTINUOUS HORIZONTAL WALL AND CONTINUOUS FOOTING REINFORCEMENT WITH 90 DEGREE BENDS AT CORNERS AND INTERSECTIONS AS SHOWN ON CONSTRUCTION DOCUMENTS.
7. MAINTAIN THE FOLLOWING REINFORCEMENT COVERAGE FOR REINFORCING STEEL UNLESS NOTED OTHERWISE: CONCRETE CAST AGAINST SOIL: 3 INCHES
CONCRETE EXPOSED TO WEATHER, NO. 6 AND LARGER: 2 INCHES
NO. 5 AND SMALLER: 1 1/2 INCHES
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL, NO. 11 AND SMALLER: 1 INCH WALL, 1 1/2 INCH SLAB

CONCRETE CAST AGAINST SOIL: 3 INCHES
CONCRETE EXPOSED TO WEATHER, NO. 6 AND LARGER: 2 INCHES
NO. 5 AND SMALLER: 1 1/2 INCHES
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH SOIL, NO. 11 AND SMALLER: 1 INCH WALL, 1 1/2 INCH SLAB



1 REINFORCING LAP/BEND DIAGRAM

1 1/2" = 1'-0"

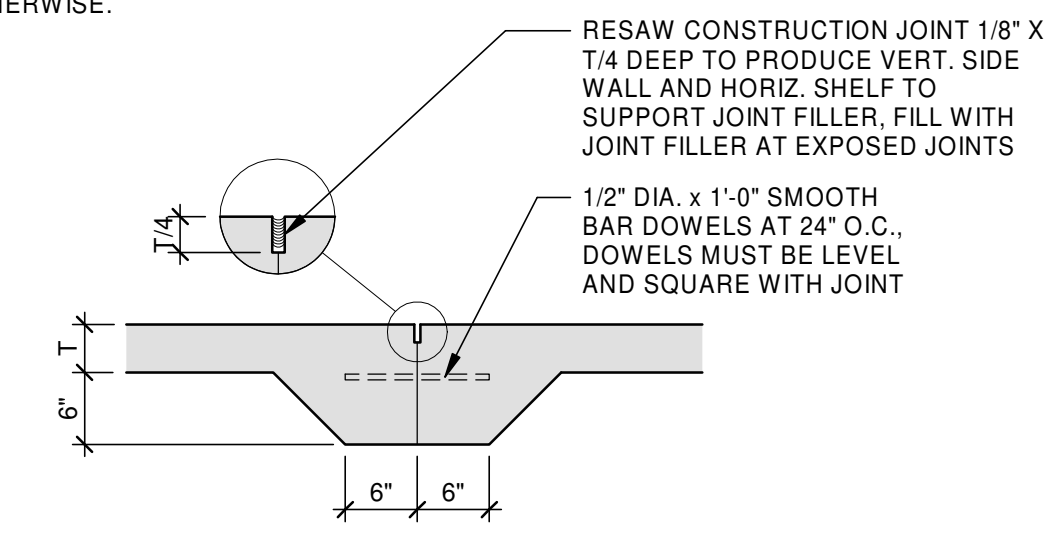


3 CORNER BAR DETAIL

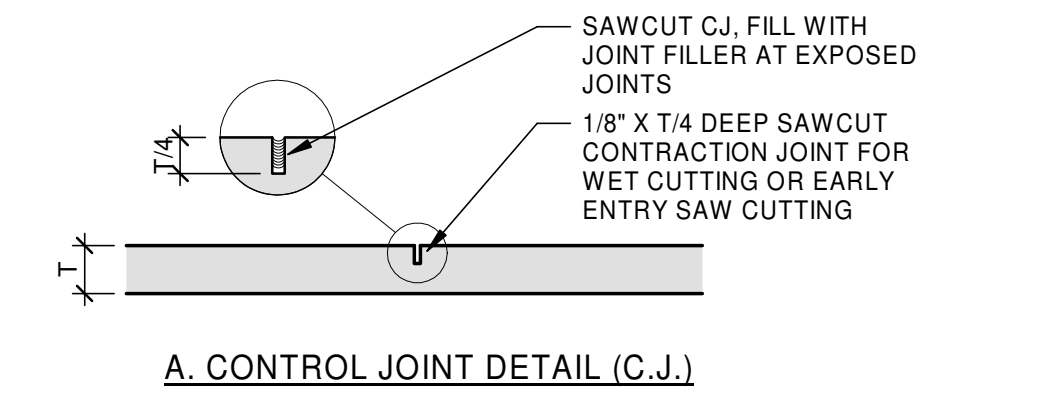
3/8" = 1'-0"

CONCRETE

- 1. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING:
ALL INTERIOR BUILDING CONCRETE 3000 PSI
ALL EXTERIOR BUILDING CONCRETE 4500 PSI
2. CALCIUM CHLORIDE IS NOT TO BE USED AS AN ADMIXTURE. ALL ADMIXTURES SHALL BE FREE OF ALL CHLORIDES.
3. PROVIDE CONCRETE MIX DESIGN MEETING ACI 318 FOR REVIEW PRIOR TO IMPLEMENTATION FOR EACH DIFFERENT MIX.
4. CONCRETE MIX DESIGN FOR CONCRETE SLABS ON GRADE SHALL CONTAIN A WATER REDUCING AND DENSIFYING ADMIXTURE TO REDUCE THE PERMEABILITY OF THE CONCRETE.
5. PORTLAND CEMENT SHALL CONFORM TO ASTM C150 TYPE I OR II LOW ALKALI UNLESS NOTED OTHERWISE. AGGREGATE FOR REGULAR WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
6. REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACEMENT OF CONCRETE. STABBING OF REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS IS NOT ALLOWED.
7. COORDINATE WITH OTHER TRADES TO ENSURE THE PROPER PLACEMENT OF OPENINGS, SLEEVES, CURBS, INSERTS, DEPRESSIONS, ETC. AS SHOWN ON CONSTRUCTION DOCUMENTS.
8. CONCRETE EXPOSED TO WEATHER IN AREAS SUBJECT TO FROST SHALL BE AIR-ENTRAINED WITH AN AIR CONTENT BETWEEN 4 AND 6 PERCENT.
9. FOR PLACEMENT OF CONCRETE IN EITHER HOT OR COLD WEATHER CONDITIONS FOLLOW ACI STANDARD PROCEDURES.
10. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 (Fy = 36 KSI).
11. 'C.J.' INDICATES SAWCUT CONTROL JOINT. 'CONST. JOINT' INDICATES PREFERRED LOCATIONS FOR CONSTRUCTION JOINTS. IF A CONSTRUCTION JOINT IS NOT REQUIRED BY THE CONTRACTOR, A SAWCUT CONTROL JOINT BY BE SUBSTITUTED AT THOSE LOCATIONS.
12. EPOXY GROUT OR ADHESIVE SHALL BE HILTI HIT HY-200 ADHESIVE OR EQUIVALENT, UNLESS NOTED OTHERWISE.



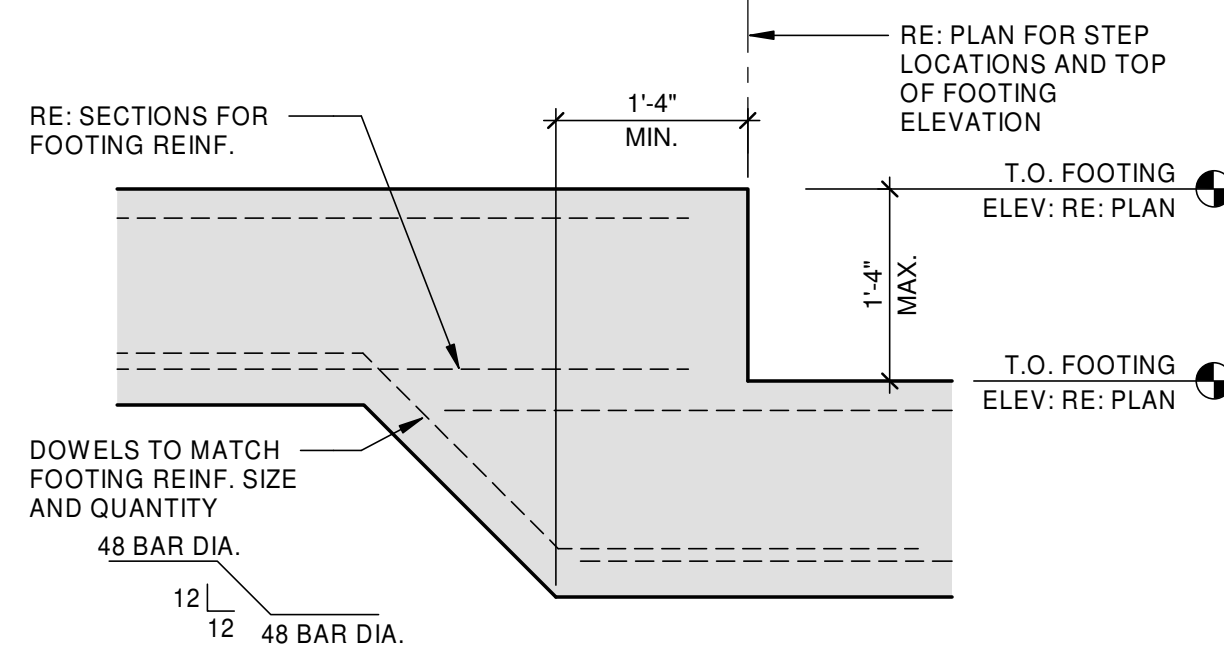
B. CONSTRUCTION JOINT DETAIL



A. CONTROL JOINT DETAIL (C.J.)

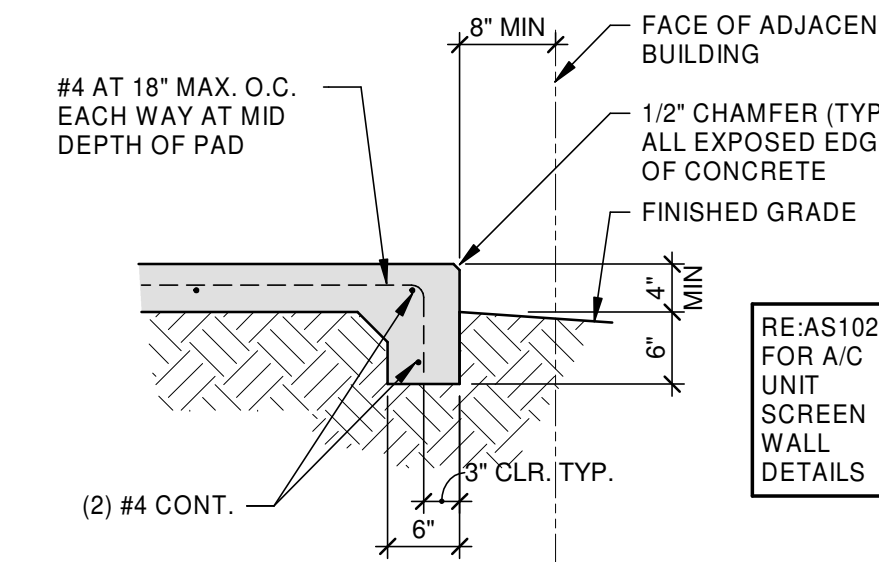
2 TYP. CONTROL JOINT

3/4" = 1'-0"



4 STEP FOOTING DETAIL

3/4" = 1'-0"



5 EXTERIOR EQUIPMENT PAD

3/4" = 1'-0"



THE WHITTIER - PHASE 1
BOOMTOWN DEVELOPMENT COMPANY
68 NORTH LEWIS
TULSA, OK 74110

ISSUES / REVISIONS

Table with 2 columns: Date and Description. Row 1: 06/12/2020 PERMIT SET - PHASE 1.

ISSUE DATE: 06/12/2020
PROJECT NO: P05093.0100

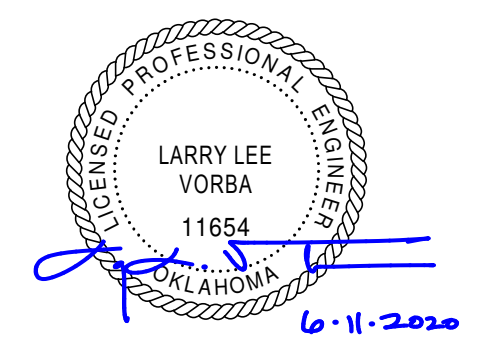
CHECKED BY: KJW
DRAWN BY: RLR/EAE

SHEET NAME

NOTES, SCHEDULES AND
TYPICAL DETAILS

SHEET NUMBER





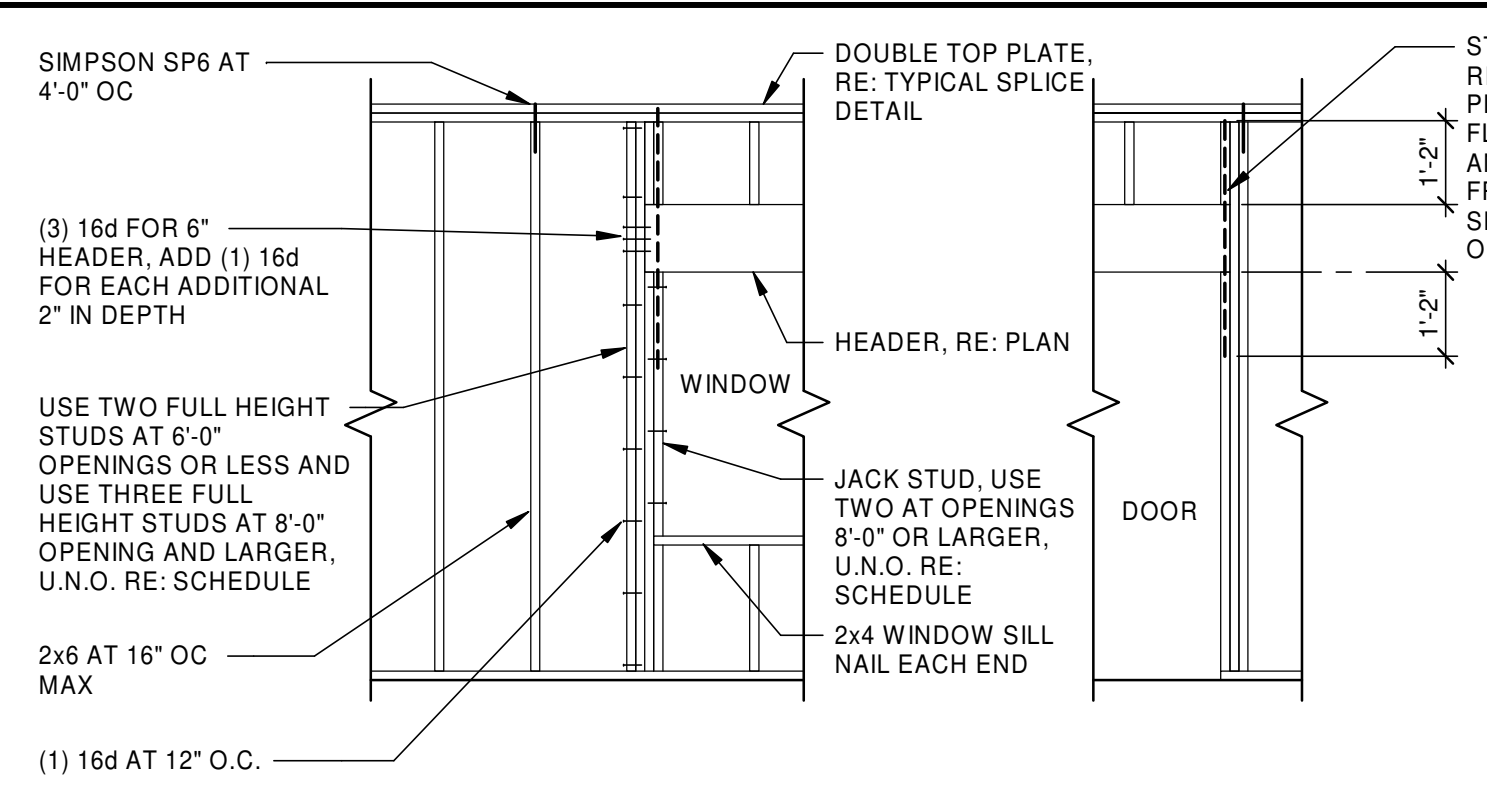
ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
 PROJECT NO: P05093.0100  
 CHECKED BY: KJW  
 DRAWN BY: RLR/EAE

SHEET NAME  
 TYPICAL DETAILS

SHEET NUMBER  
**S-003**

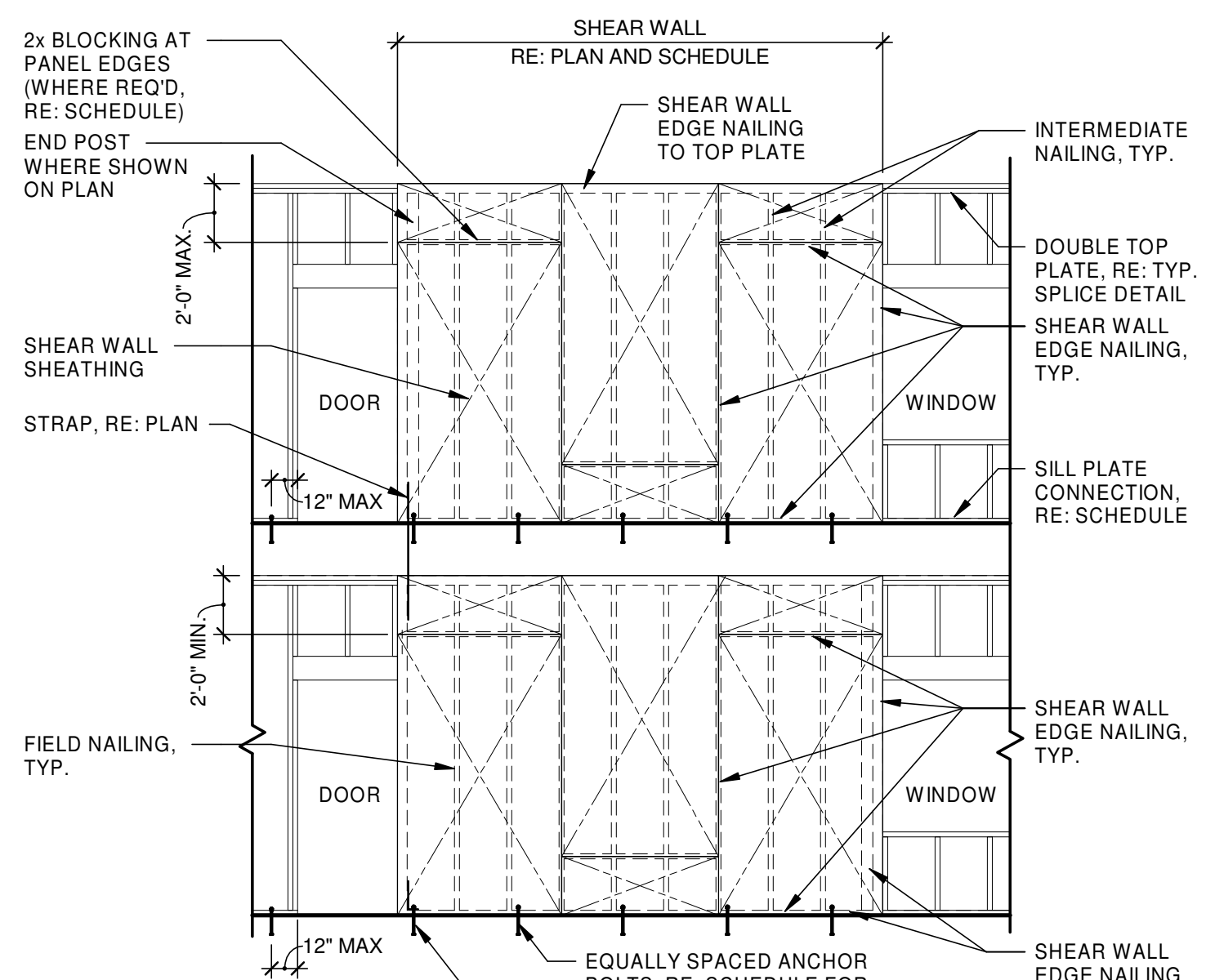


**1 TYP. STUD WALL FRAMING**  
 3/8" = 1'-0"

**DOOR AND WINDOW FRAMING SCHEDULE**

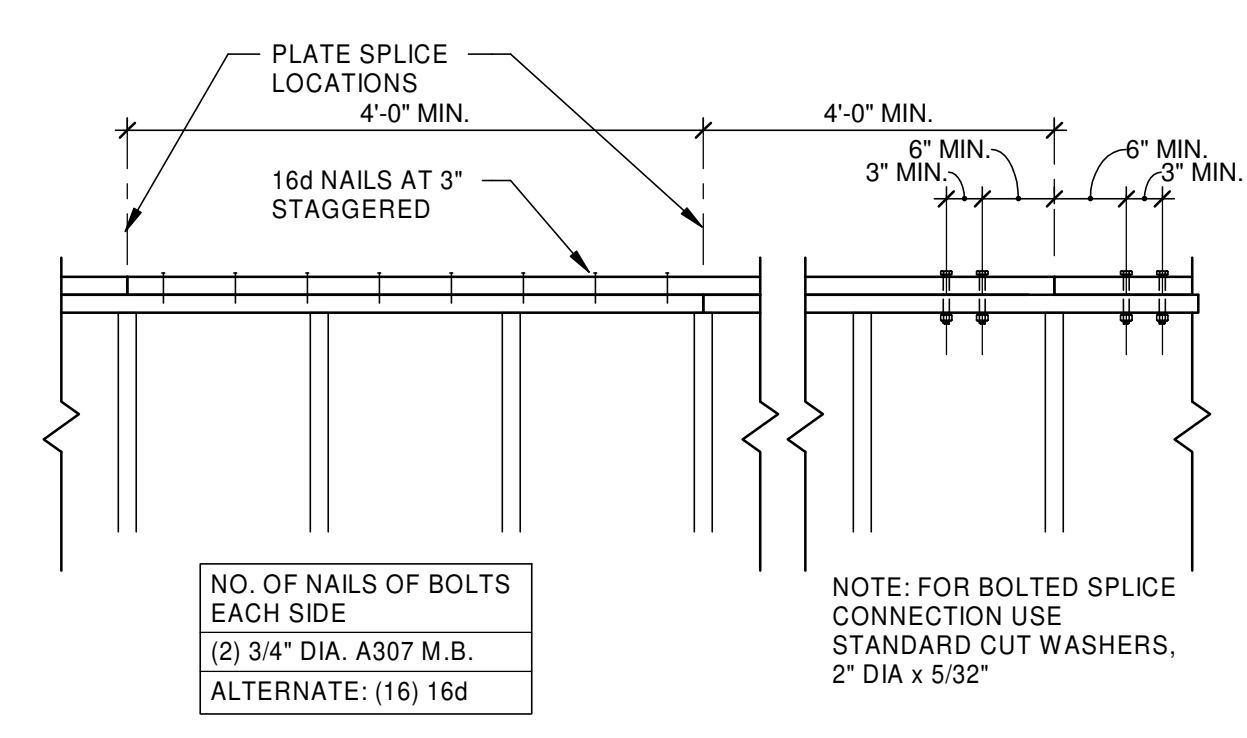
OPENING TYPE	HEADER	JACK STUD	FULL HEIGHT STUD
GARAGE DOOR	* 5 1/4x11 1/4 LVL	(2) 2x6	(2) 2x6
3 BAY EXTERIOR	* 5 1/4x9 1/2 LVL	(2) 2x6	(2) 2x6
EXTERIOR UP TO 3'-4"	(3) 2x8 W/ (2) 1/2" PLY SPACERS	(1) 2x6	(1) 2x6
INTERIOR PARTITION	(2) 2x4 W/ (1) 1/2" PLY SPACER	(1) 2x4	(1) 2x4

REFER TO FASENDING SCHEDULE FOR BUILT-UP HEADER NAILING, HEADER TO JAMB NAILING AND BUILT-UP JAMB NAILING IN THE TABLES  
 \* FULL LENGTH OF WALL RE: ELEVATIONS 6/S-003 AND 9/S-003

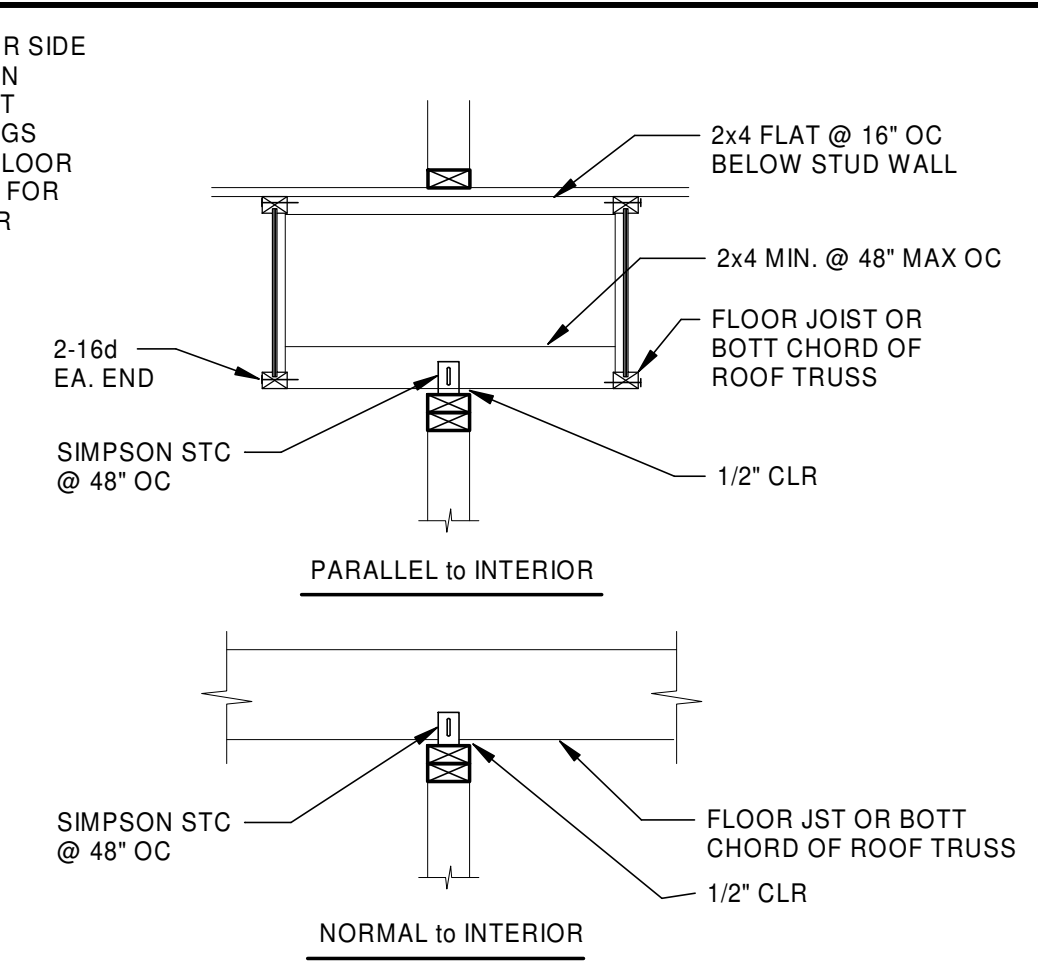


**NOTE:** STAGGER SHEATHING JOINTS, PANELS MAY BE TURNED HORIZ.  
 HOLDDOWN IF REQUIRED, RE: FOUNDATION AND FRAMING PLANS

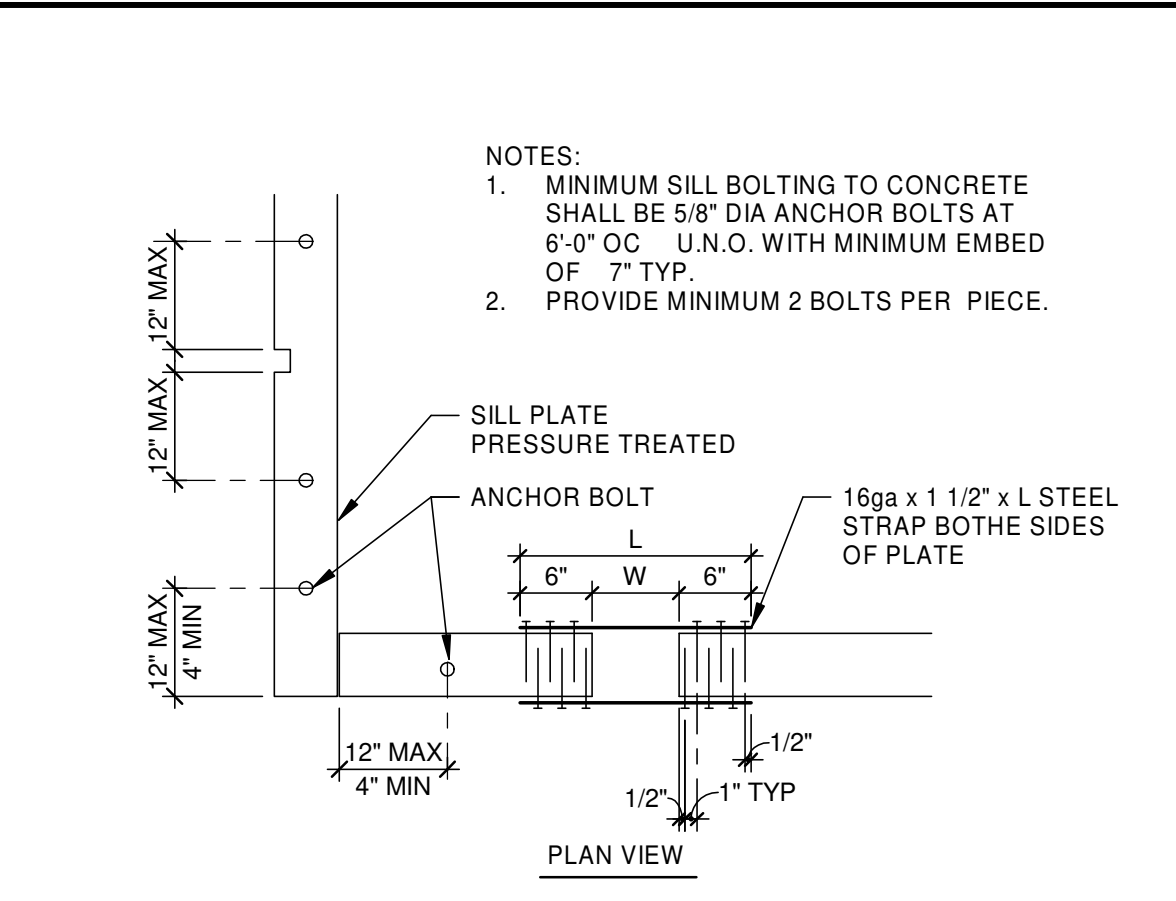
**5 TYP. SHEAR WALL ELEVATION**  
 1/4" = 1'-0"



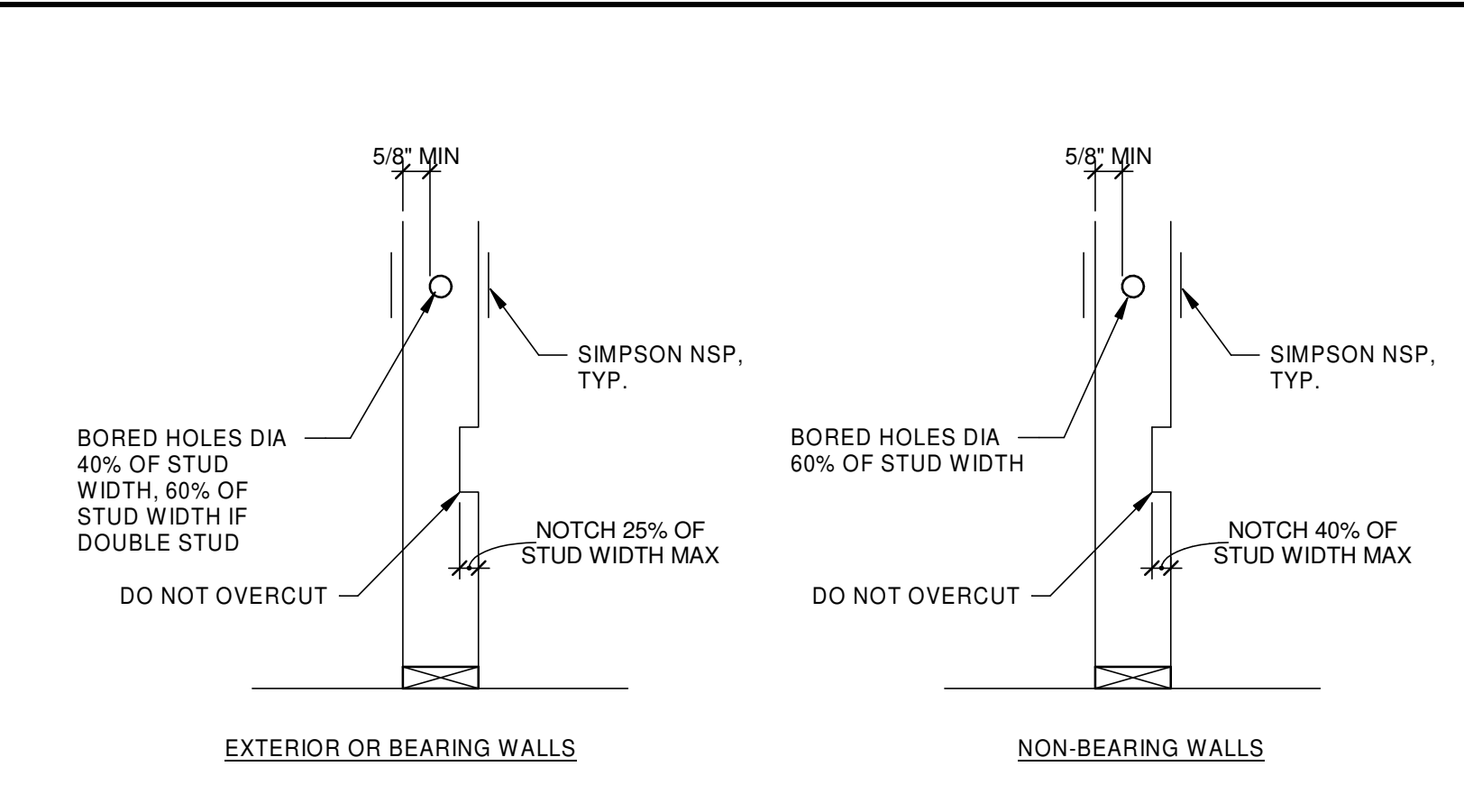
**7 TYP. TOP PLATE SPLICE**  
 3/4" = 1'-0"



**2 TYPICAL NON-BEARING, NON-SHEAR WALL**  
 NOT TO SCALE



**3 TYPICAL SILL PLATE BOLTING**  
 3/4" = 1'-0"

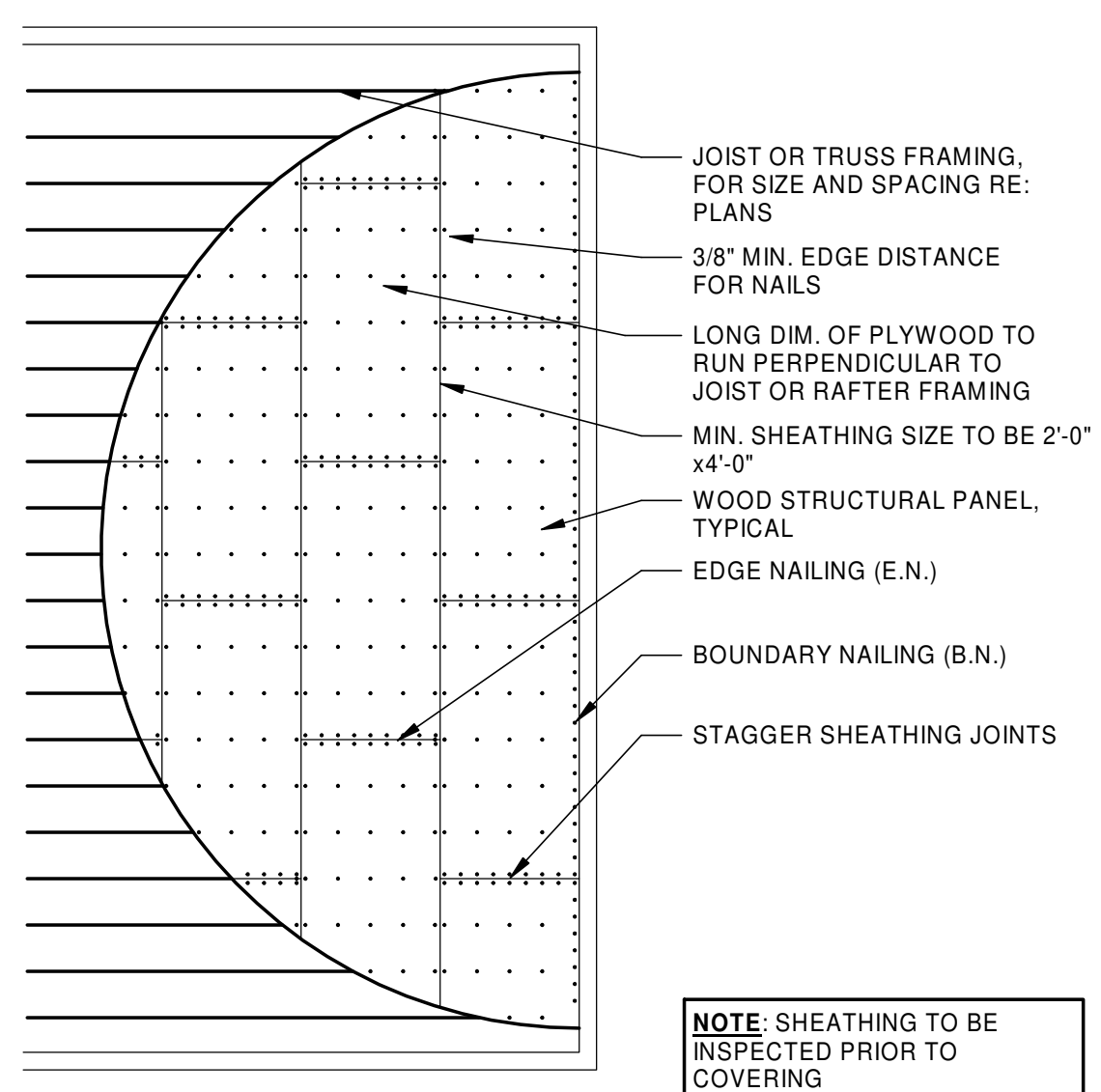


**4 TYPICAL STUD NOTCHES AND HOLES**  
 3/4" = 1'-0"

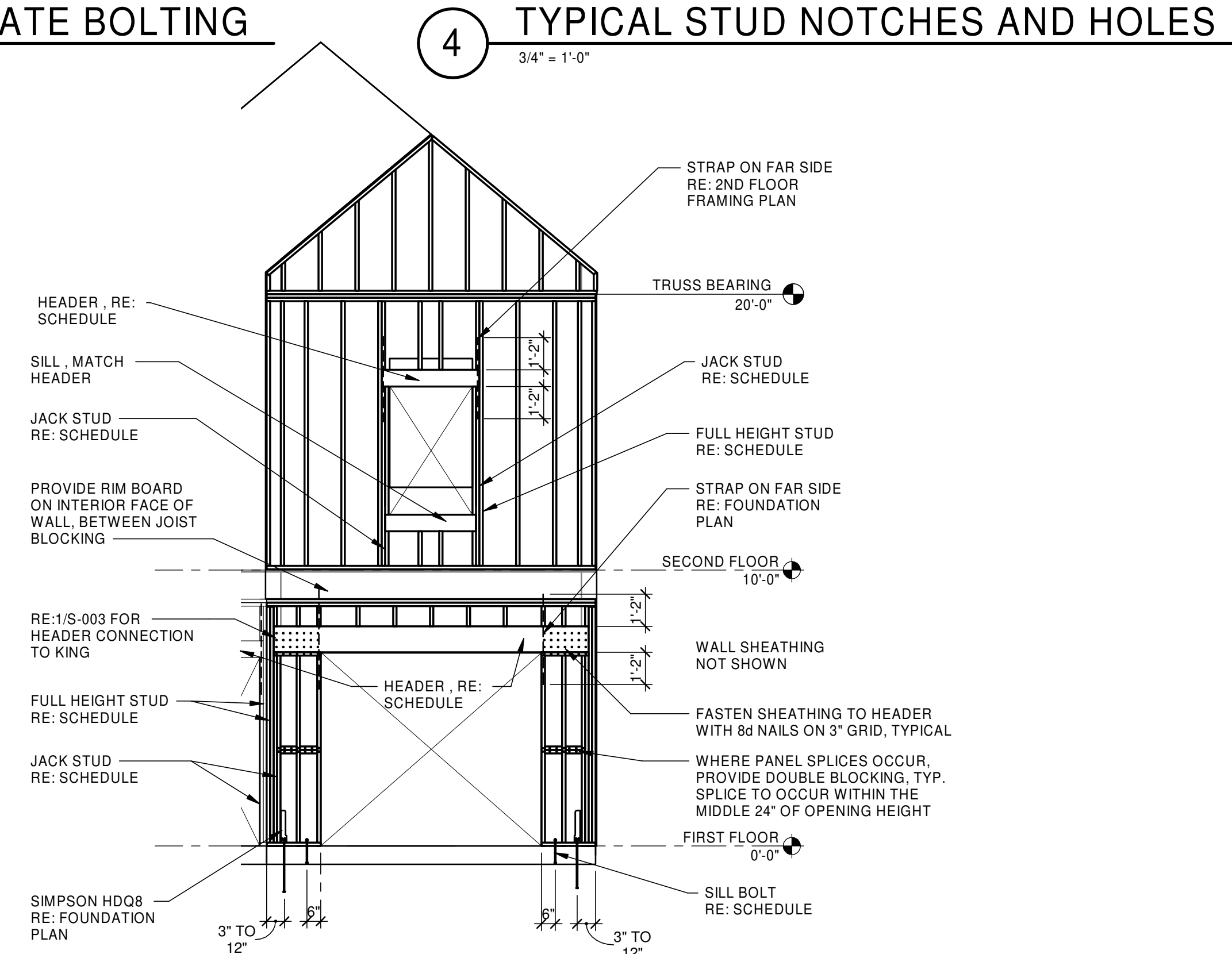
**SHEAR WALL SCHEDULE**

MARK	BLOCKED/UNBLOCKED	ATTACHMENT	SILL
A	BLOCKED	8d AT 3" OC AT PANEL EDGES AND IN FIELD	5/8" DIA AB WITH 7" EMBED WITH 3X3X1/4 PLATE WASHERS MIN (2) PER SEGMENT, 6" FROM END OF SEGMENT BAL AT 2'-0" OC
B	BLOCKED	8d AT 6" OC AT PANEL EDGES AND AT 12" IN FIELD	5/8" DIA AB WITH 7" EMBED WITH 3X3X1/4 PLATE WASHERS MIN (2) PER SEGMENT, 6" FROM END OF SEGMENT BAL AT 2'-0" OC
C	BLOCKED	#6 x 1 5/8 TYPE W SCREWS AT 7" OC AT PANEL EDGES AND IN FIELD	5/8" DIA AB WITH 7" EMBED WITH 3X3X1/4 PLATE WASHERS MIN (2) PER SEGMENT, 6" FROM END OF SEGMENT BAL AT 2'-0" OC

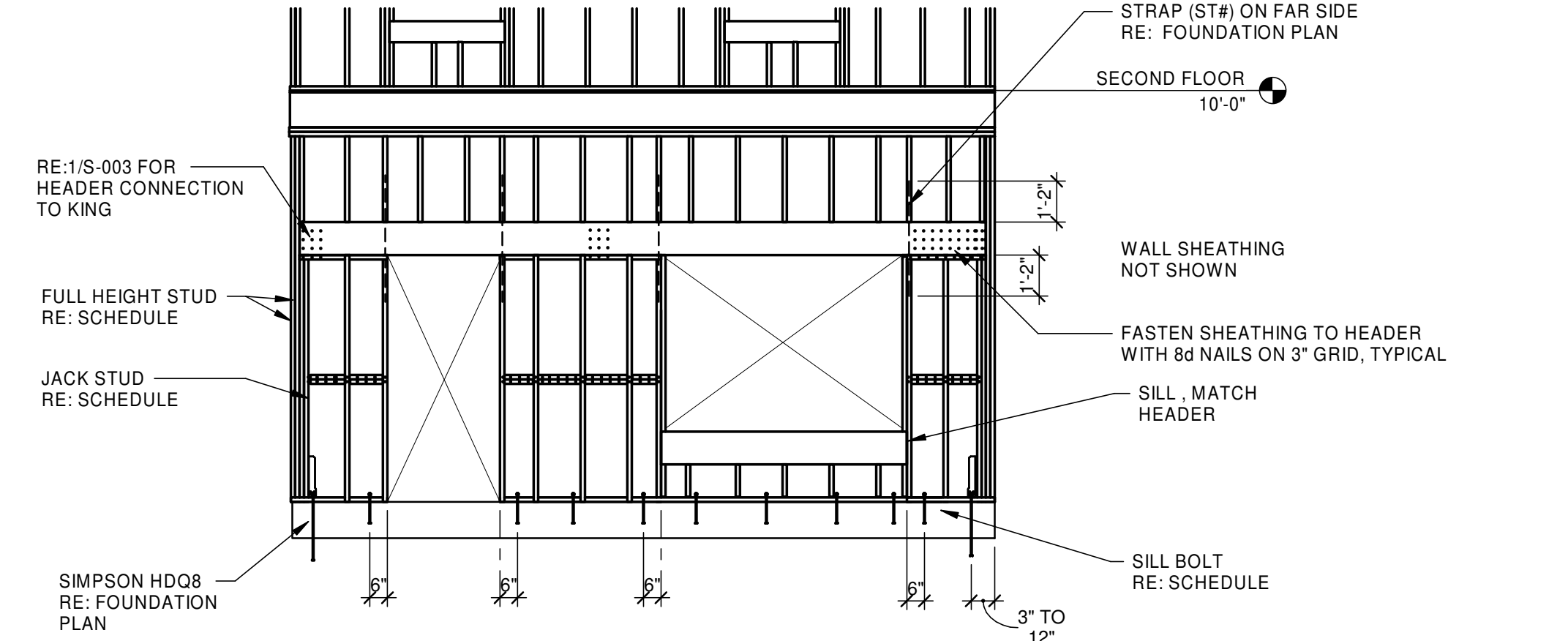
- ALL EXTERIOR WALLS AND SHEAR WALLS A AND B SHALL BE SHEATHED WITH 7/16" RATED OSB OR RATED PLYWOOD. SHEAR WALL C SHALL BE SHEATHED WITH 5/8" GYPSUM BOARD.
- WHERE SHEAR WALL IS NOT DESIGNATED PROVIDE 8d AT 6" OC AT PANEL EDGES AND AT 12" OC IN FIELD ON EXTERIOR WALL. FOR INTERIOR WALLS, #6x1 5/8" TYPE W SCREWS AT 7" OC AT PANEL EDGES AND IN FIELD.
- ALL SILL PLATE BOLTS TO FOUNDATION SHALL HAVE 3"X3"X1/4" PLATE WASHERS
- AT ALL NON-SHEAR WALLS, PROVIDE 5/8" DIA AB WITH 7" EMBED AT 6'-0" OC MAX



**8 UNBLOCKED SHEATHING LAYOUT**  
 3/16" = 1'-0"

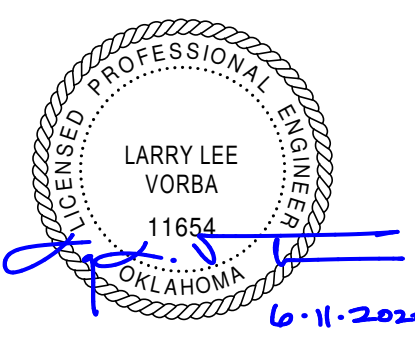


**6 TYPE A SHEAR WALL ELEVATION AT GARAGE**  
 1/4" = 1'-0"

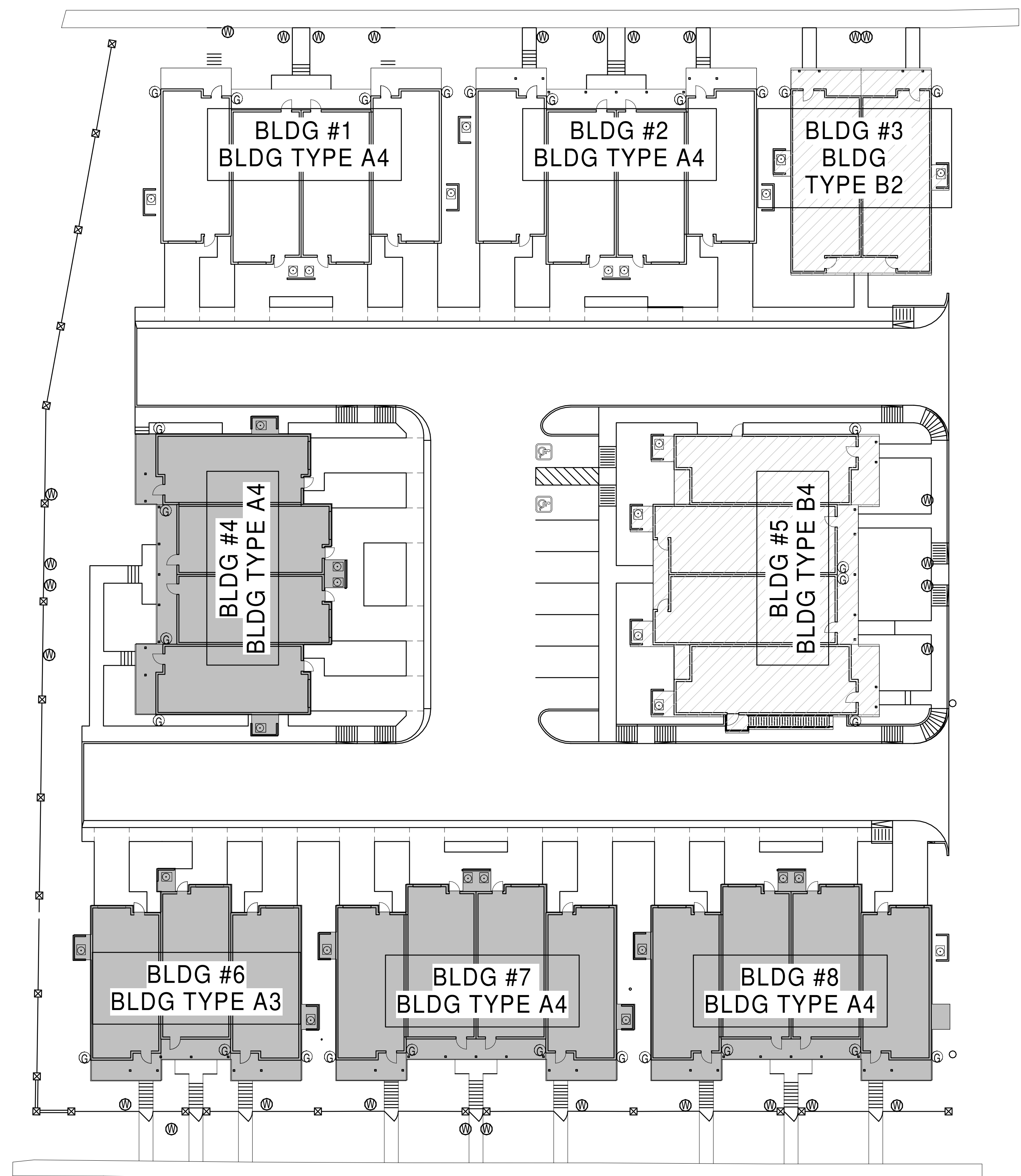


**9 LARGE WINDOW AND DOOR HEADER**  
 1/4" = 1'-0"





CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2020  
LARRY L. VORBA, PE  
ENGINEER OF RECORD



REFER TO CIVIL DRAWINGS FOR EXTENT OF SITE WORK FOR PHASE 1 AND PHASE 2

**1 BUILDING TYPE KEY PLAN**  
1" = 20'-0"



PHASING LEGEND	
	PHASE 1
	PHASE 2
	FUTURE - BY OTHERS

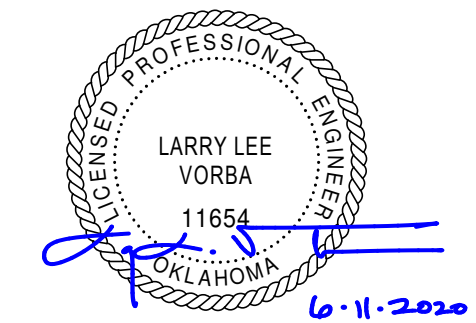
**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUE / REVISIONS
06/12/2020 PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: KJW  
DRAWN BY: RLR/EAE

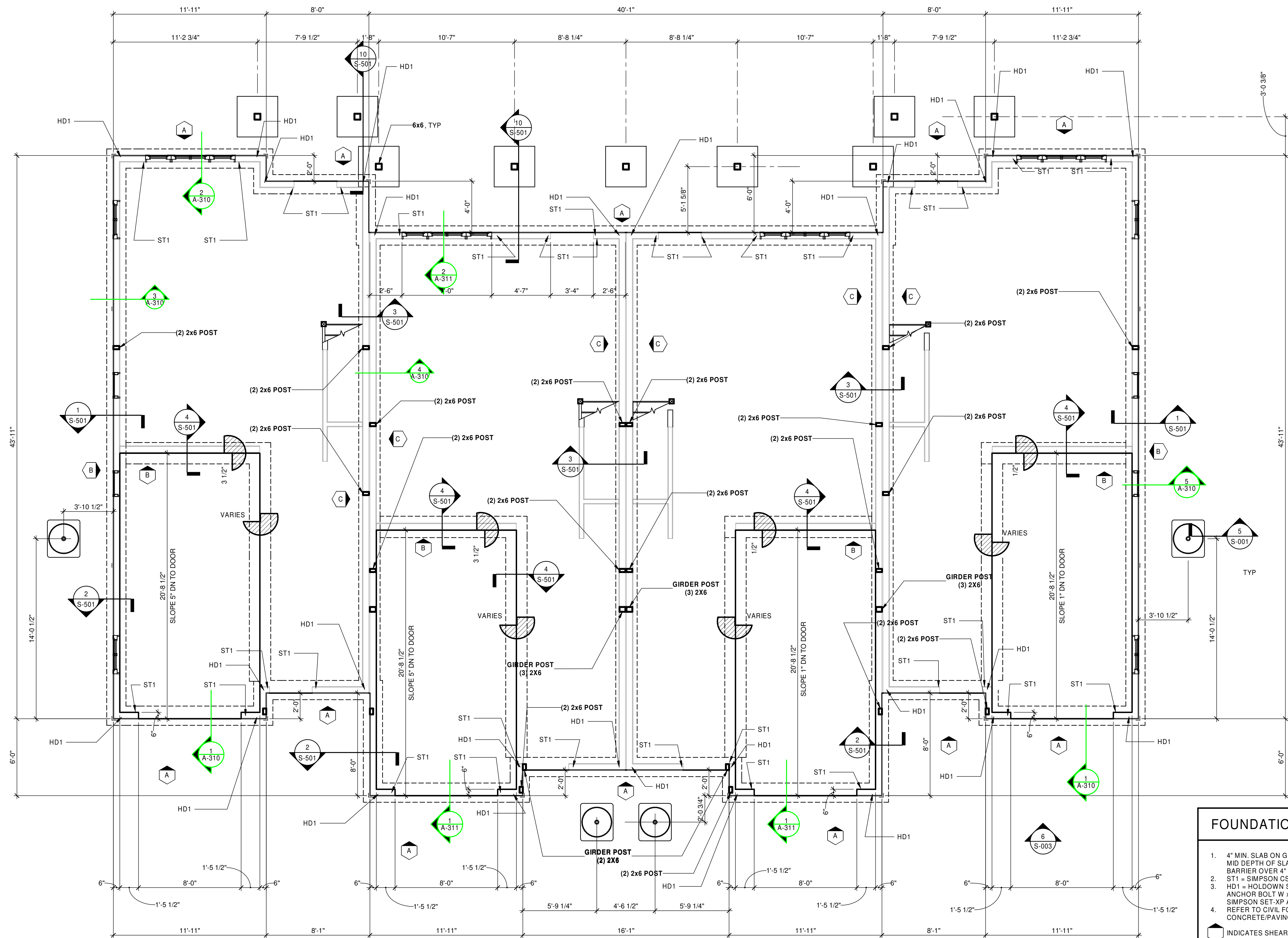
SHEET NAME  
**BUILDING TYPE KEY PLAN**

SHEET NUMBER  
**S-100**



CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2020  
LARRY L. VORBA, PE  
ENGINEER OF RECORD

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110



FINISHED FLOOR ELEVATION = 0'-0" = CIVIL ELEVATION 754.56, TOP OF FOOTING = 753.16

**FOUNDATION PLAN NOTES**

- 4" MIN. SLAB ON GRADE WITH #4 AT 18" OC, EW IN MID DEPTH OF SLAB, OVER 15 MIL VAPOR BARRIER OVER 4" CLEAN CRUSHED ROCK
- ST1 = SIMPSON CS14, RE: 1 & 6/S-003
- HD1 = HOLD-DOWN SIMPSON HDQ8 WITH 7/8" DIA. ANCHOR BOLT W/ 8" EMBED INTO FOOTING WITH SIMPSON SET-XP AT (2) 2x6 POST
- REFER TO CIVIL FOR EXTERIOR CONCRETE/PAVING

INDICATES SHEAR WALL, RE: SCHEDULE

REFER TO ARCHITECTURE FOR BUILDINGS AT ALLEYS THAT DO NOT HAVE 2x2 WINDOWS

ISSUES / REVISIONS

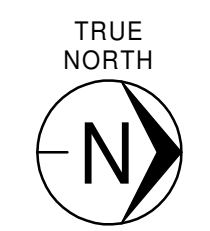
NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

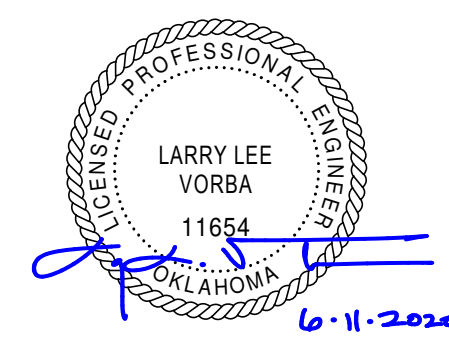
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: KJW  
DRAWN BY: RLR/EAE

SHEET NAME  
BLDG #1 - BLDG TYPE A4  
FOUNDATION PLANS

SHEET NUMBER  
**S-101**

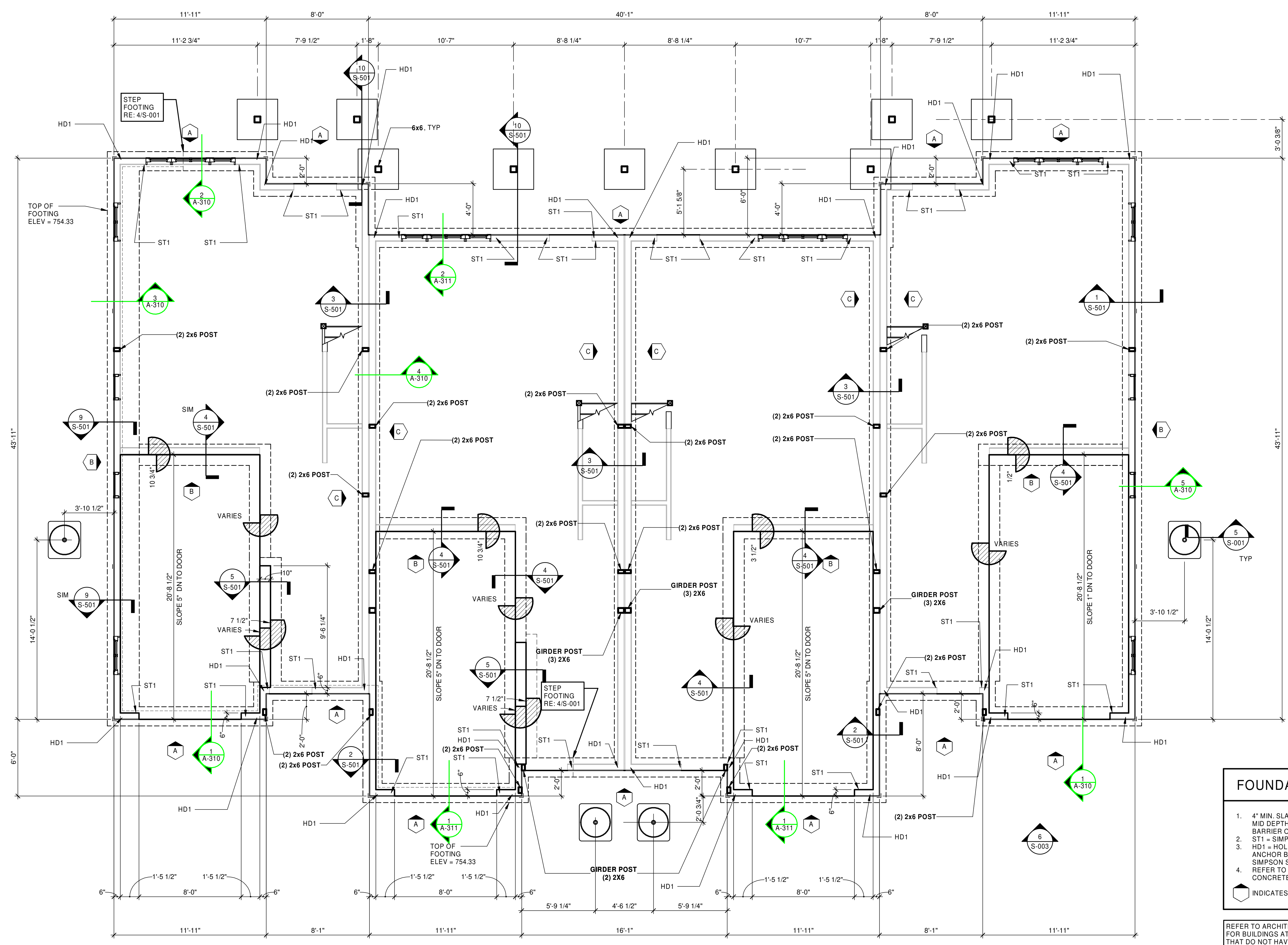
**1 BLDG #1 - BLDG TYPE A4 - FOUNDATION PLAN**  
1/4" = 1'-0"





CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2020  
LARRY L. VORBA, PE  
ENGINEER OF RECORD

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110



FINISHED FLOOR ELEVATION = 0'-0" = CIVIL ELEVATION 756.78 TOP OF FOOTING = 755.33 UNO

**1 BLDG #2 - BLDG TYPE A4 - FOUNDATION PLAN**  
1/4" = 1'-0"



- FOUNDATION PLAN NOTES**
- 4" MIN. SLAB ON GRADE WITH #4 AT 18" OC, EW IN MID DEPTH OF SLAB, OVER 15 MIL VAPOR BARRIER OVER 4" CLEAN CRUSHED ROCK
  - ST1 = SIMPSON CS14, RE: 1 & 6/S-003
  - HD1 = HOLDOWN SIMPSON HD08 WITH 7/8" DIA. ANCHOR BOLT W 8" EMBED INTO FOOTING WITH SIMPSON SET-XP AT (2) 2x6 POST REFER TO CIVIL FOR EXTERIOR CONCRETE/PAVING
  - INDICATES SHEAR WALL, RE: SCHEDULE

REFER TO ARCHITECTURE FOR BUILDINGS AT ALLEYS THAT DO NOT HAVE 2x2 WINDOWS

ISSUES / REVISIONS

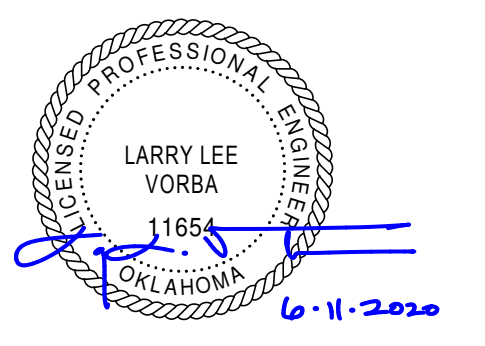
NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: KJW  
DRAWN BY: RLR/EAE

SHEET NAME  
BLDG #2 - BLDG TYPE A4  
FOUNDATION PLANS

SHEET NUMBER  
**S-102**

Printed: 01/12/2020 10:24:01 AM  
 C:\Users\jnyrd\Documents\Final\Tulsa Whittier\Highway\_Sheet\_2018\_rjyrd.rvt



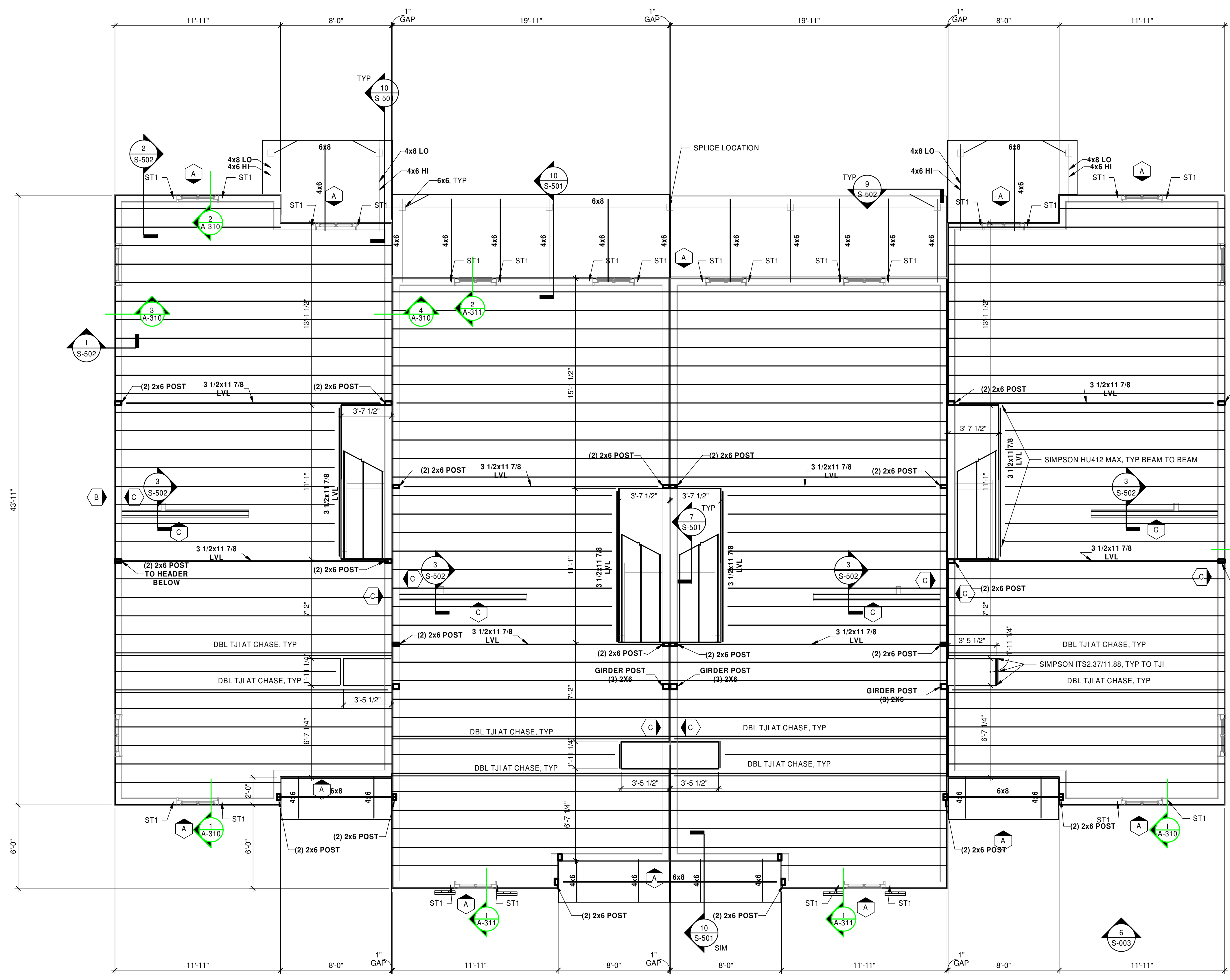
CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2020  
LARRY L. VORBA, PE  
ENGINEER OF RECORD

**FLOOR FRAMING PLAN NOTES**

- FLOOR SHEATHING 23/32", EXPOSURE 1, 48/24 RATED WOOD SHEATHING WITH 8d NAILS AT 6" OC AT SUPPORTED EDGES AND FLOOR PERIMETERS, AND 12" OC IN FIELD. FLOOR SHEATHING STOPS AT DEMISING WALLS
- TYP. FLOOR FRAMING U.N.O. 11 7/8" TJI 230 PLYWOOD WEB JOISTS AT 16" OC
- STAIR STRINGERS (3) 1 1/4"x9 1/2" LSL 1.3E WITH SIMPSON A35 TO SUPPORT BEAM, TYPICAL U.N.O. PATIO CANOPY DECKING: 2x6 TONGUE AND GROOVE PERPENDICULAR TO FRAMING. ATTACH TO FRAMING WITH (3) 16d NAILS PER BOARD, PER SUPPORT.

RE: A-315 AND A-316 FOR PATIO CANOPY DIMENSIONS.

REFER TO ARCHITECTURE FOR BUILDINGS AT ALLEYS THAT DO NOT HAVE 2x2 WINDOWS



**1** BLDG TYPE A4 - TYPICAL SECOND FLOOR FRAMING PLAN  
1/4" = 1'-0"

NOTE: NORTH VARIES RE: 1/S-100

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUE/ REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: KJW  
DRAWN BY: RLR/EAE

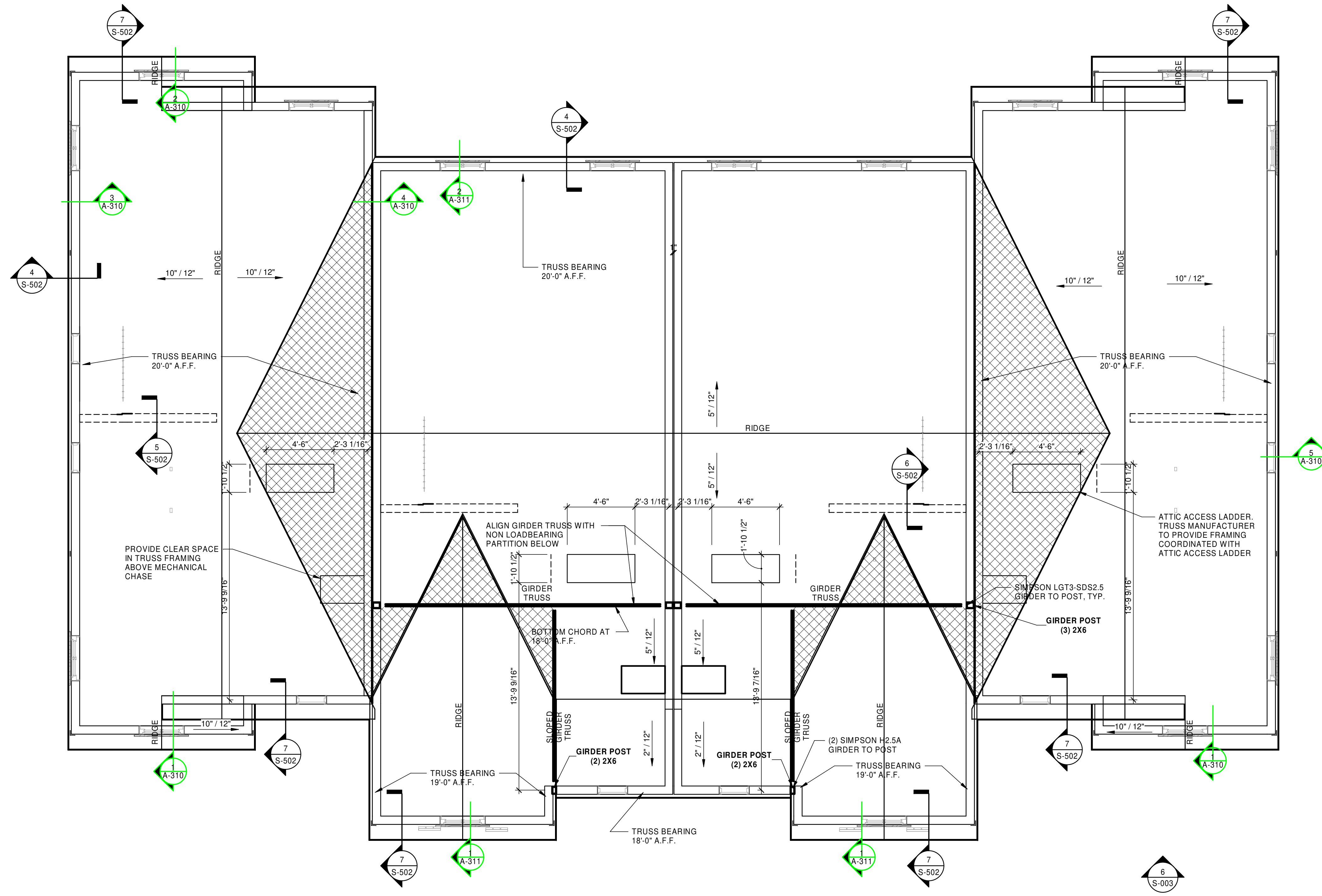
SHEET NAME  
BLDG #1, #2, #4, #7 AND #8 -  
BLDG TYPE A4 TYPICAL  
SECOND FLOOR FRAMING PLAN

SHEET NUMBER  
PHASE 1 BLDG #1 AND #2  
PHASE 2 BLDG #4, #7 AND #8  
**S-106**

ROOF FRAMING PLAN NOTES

- 15/32" EXPOSURE 1 24/16 RATED WOOD SHEATHING WITH 8D NAILS AT 8" OC AT SUPPORTED PANEL EDGES AND ROOF PERIMETERS AND 12" OC IN FIELD, ROOF SHEATHING IS CONTINUOUS.
- SHOP FABRICATED WOOD TRUSS ROOF FRAMING AT 2'-0" OC BY TRUSS MFR.
- PERIMETER UNIT WALLS SHOWN ARE LOAD BEARING WALL. INTERIOR UNIT WALLS SHOWN ARE SHEAR WALLS. DO NOT USE INTERIOR UNIT WALLS AS LOAD BEARING WALLS. GIRDER TRUSSES MAY BE REQUIRED FOR TRANSITION IN TRUSS BEARING AND SHALL BE LOCATED AT NON LOAD BEARING INTERIOR WALLS RE: ARCH HATCHED AREAS INDICATE ROOF TRUSS AND FRAMING OVERBUILD AS REQUIRED BY ROOF TRUSS DESIGN. AT OVERBUILD FRAMING, PROVIDE SIMPSON MSTA30 AT 4'-0" OC ACROSS RIDGE, CENTERED OVER RIDGE.
- PATIO CANOPY DECKING: 2x6 TONGUE AND GROOVE PERPENDICULAR TO FRAMING. ATTACH TO FRAMING WITH (3) 16d NAILS PER BOARD, PER SUPPORT.

REFER TO ARCHITECTURE FOR BUILDINGS AT ALLEYS THAT DO NOT HAVE 2x2 WINDOWS

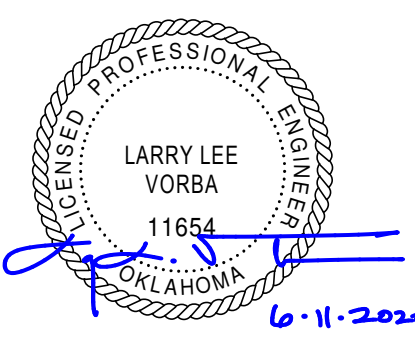


**1** BLDG TYPE A4 - TYPICAL ROOF FRAMING PLAN  
1/4" = 1'-0"

NOTE: NORTH VARIES RE: 1/S-100



810 SOUTH CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.8000  
www.cyntergy.com



CYNTERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2020  
LARRY L. VORBA, PE  
ENGINEER OF RECORD

THE WHITTIER - PHASE 1  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUE / REVISIONS

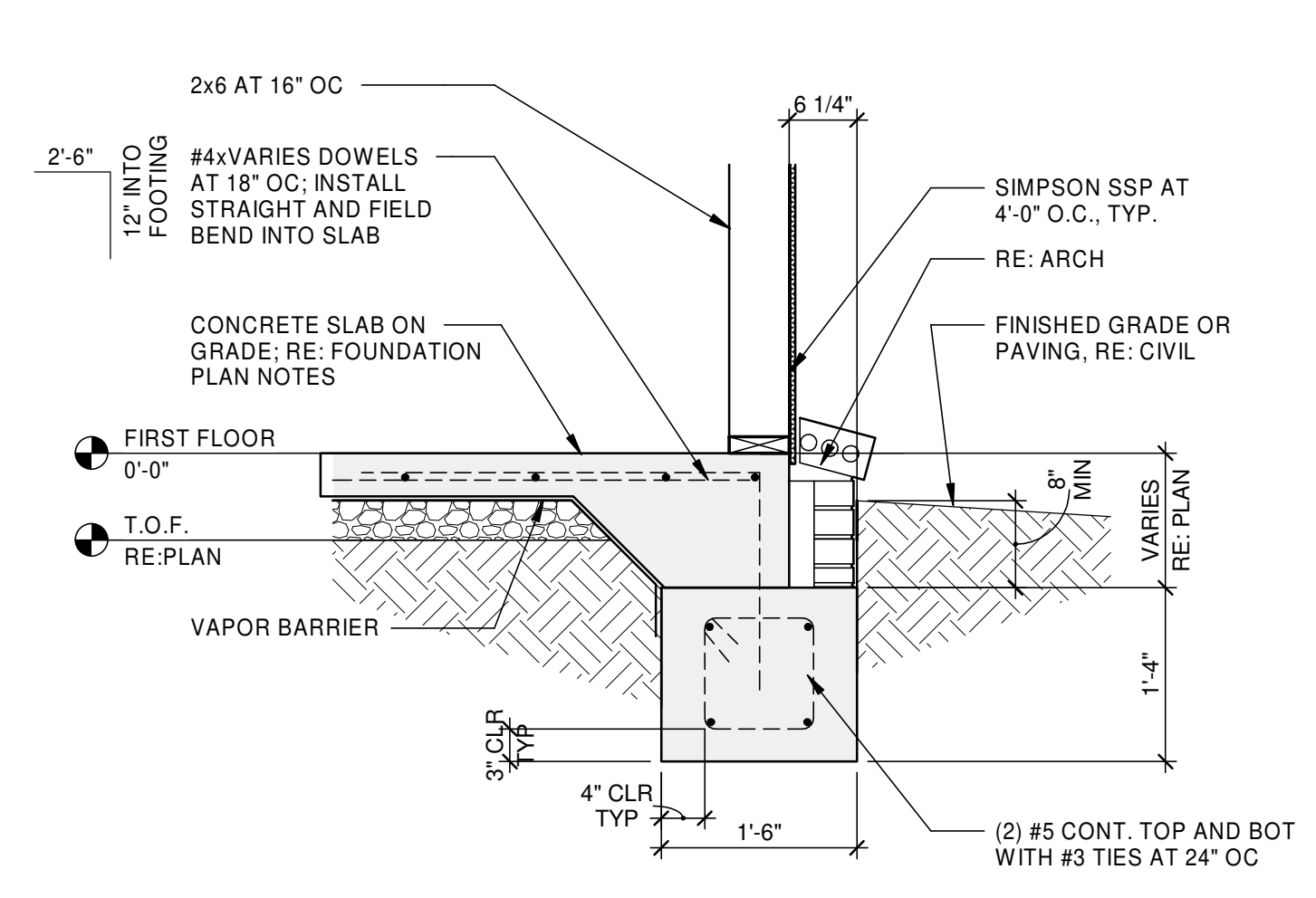
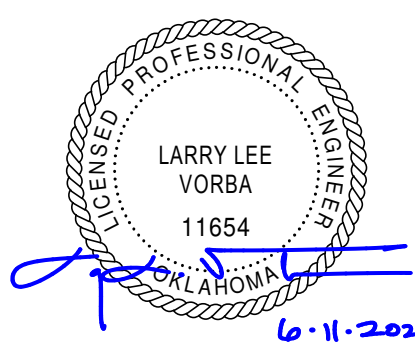
NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: KJW  
DRAWN BY: RLR/EAE

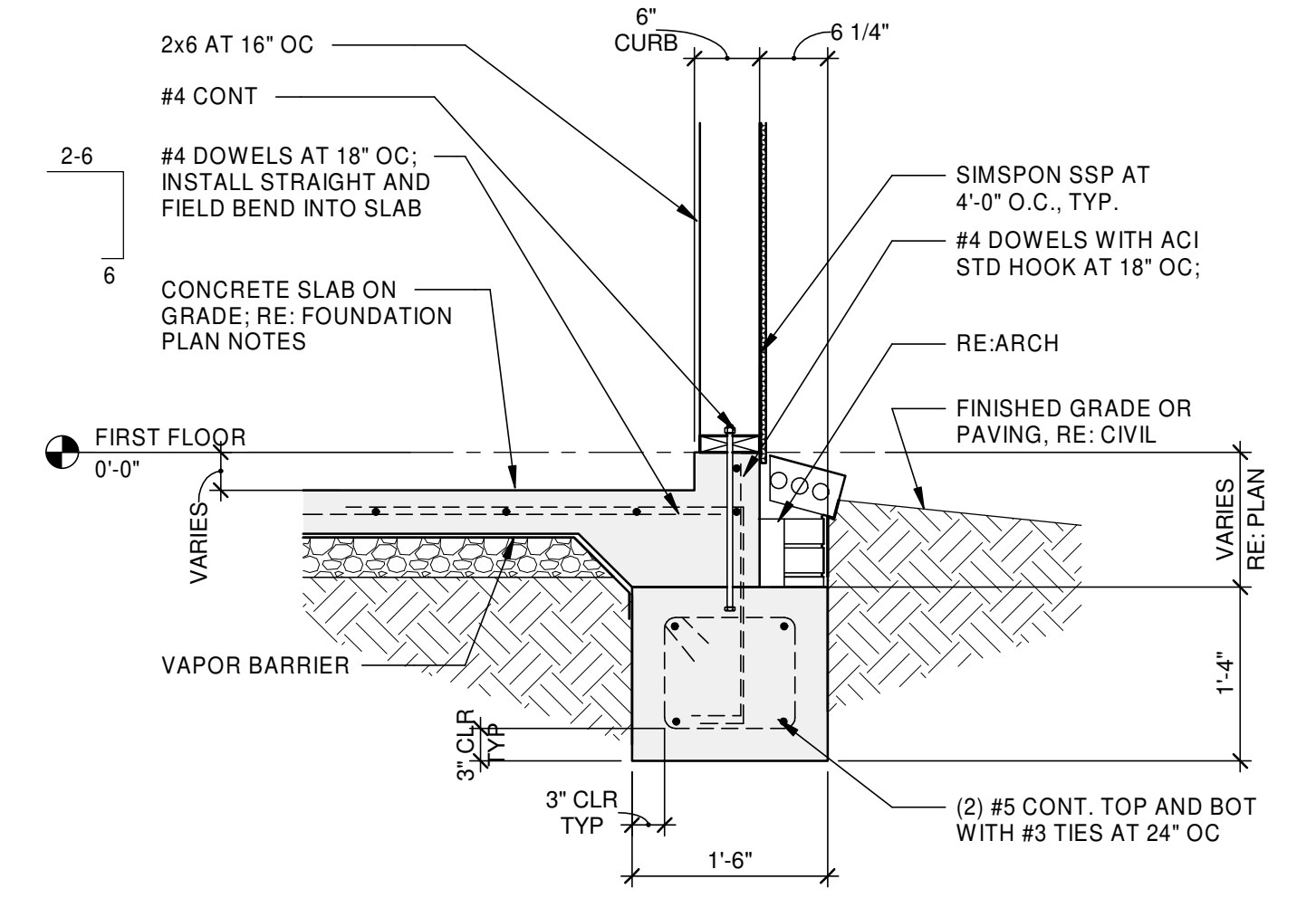
SHEET NAME  
BLDG #1,#2, #4, #7 AND #8 -  
BLDG TYPE A4 - TYPICAL ROOF  
FRAMING PLAN

SHEET NUMBER  
**S-107**

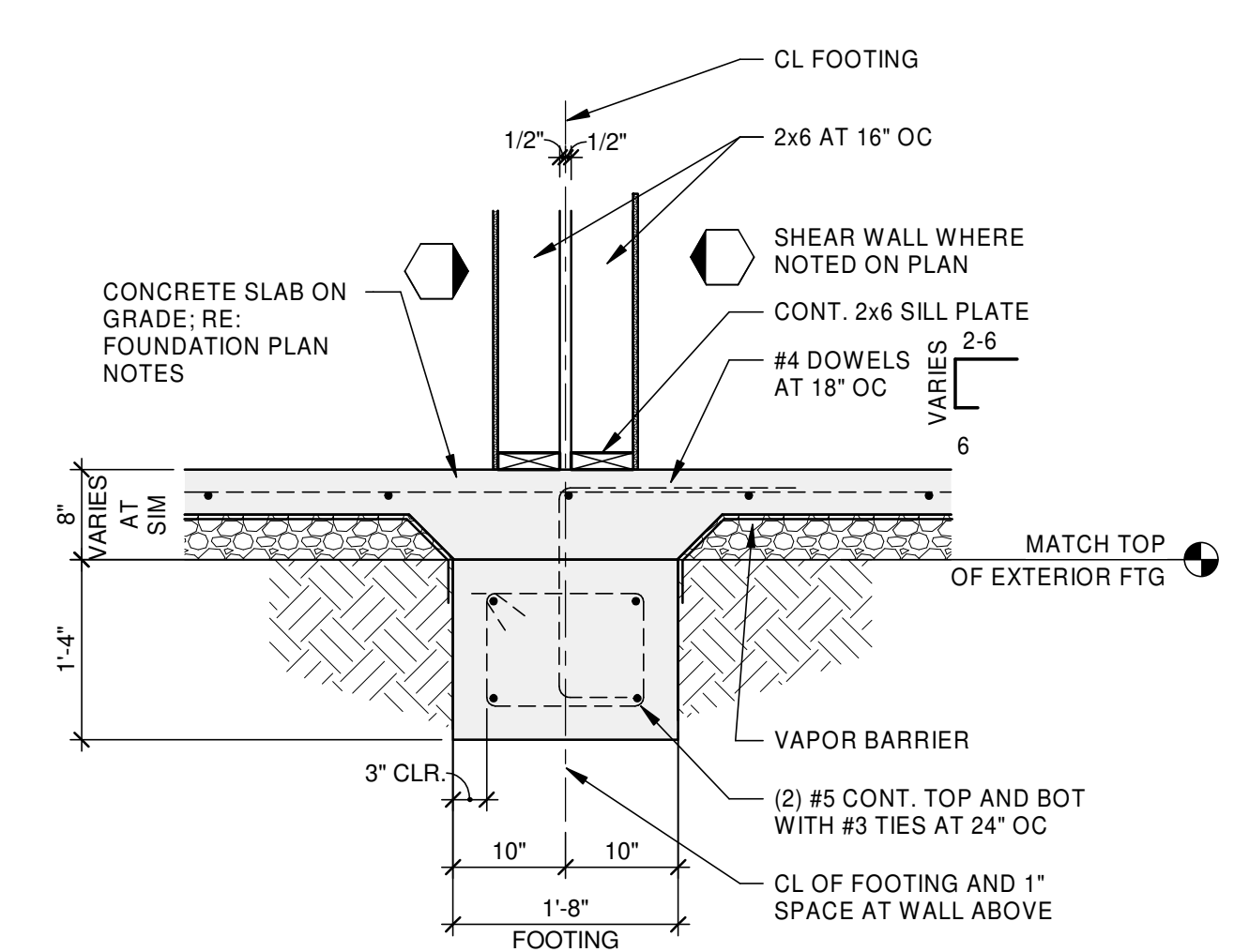
PHASE 1 - BLDG #1 AND #2  
PHASE 2 - BLDG #4, #7 AND #8



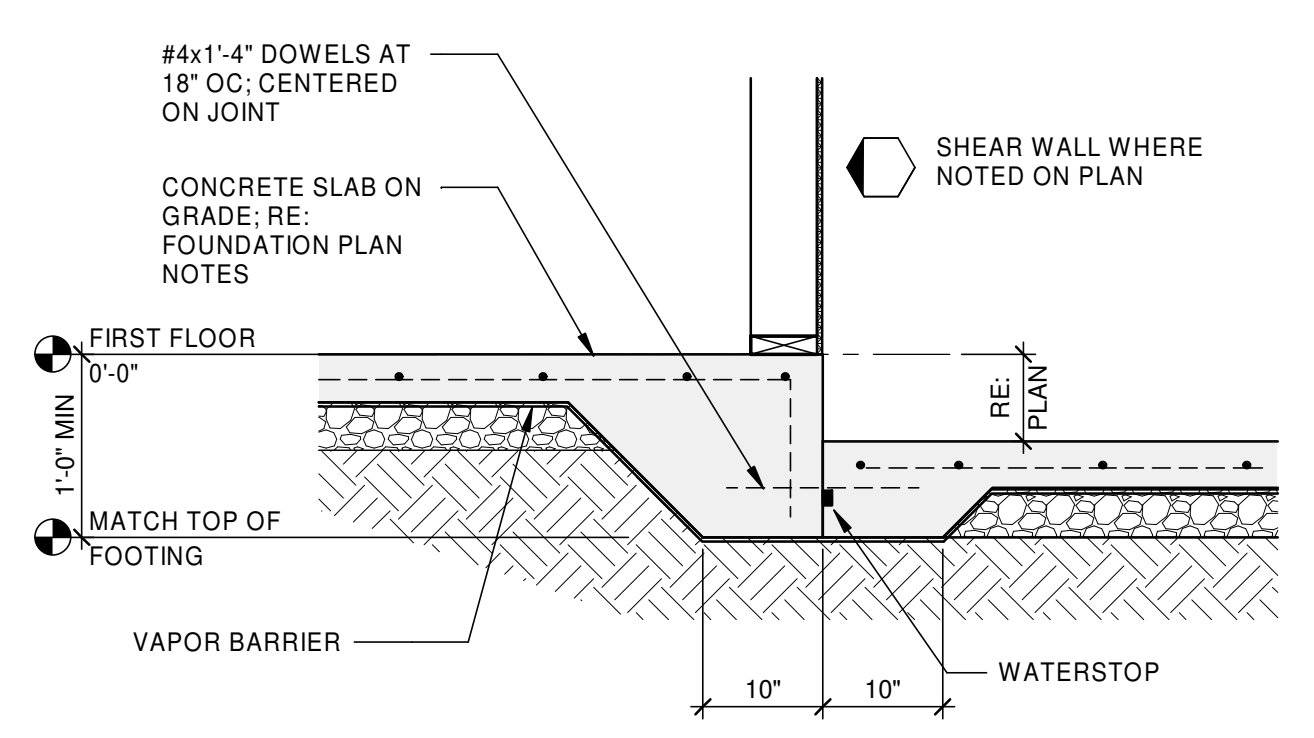
**1** TYPICAL EXTERIOR WALL FOOTING PHASE 1 AND PHASE 2  
3/4" = 1'-0"



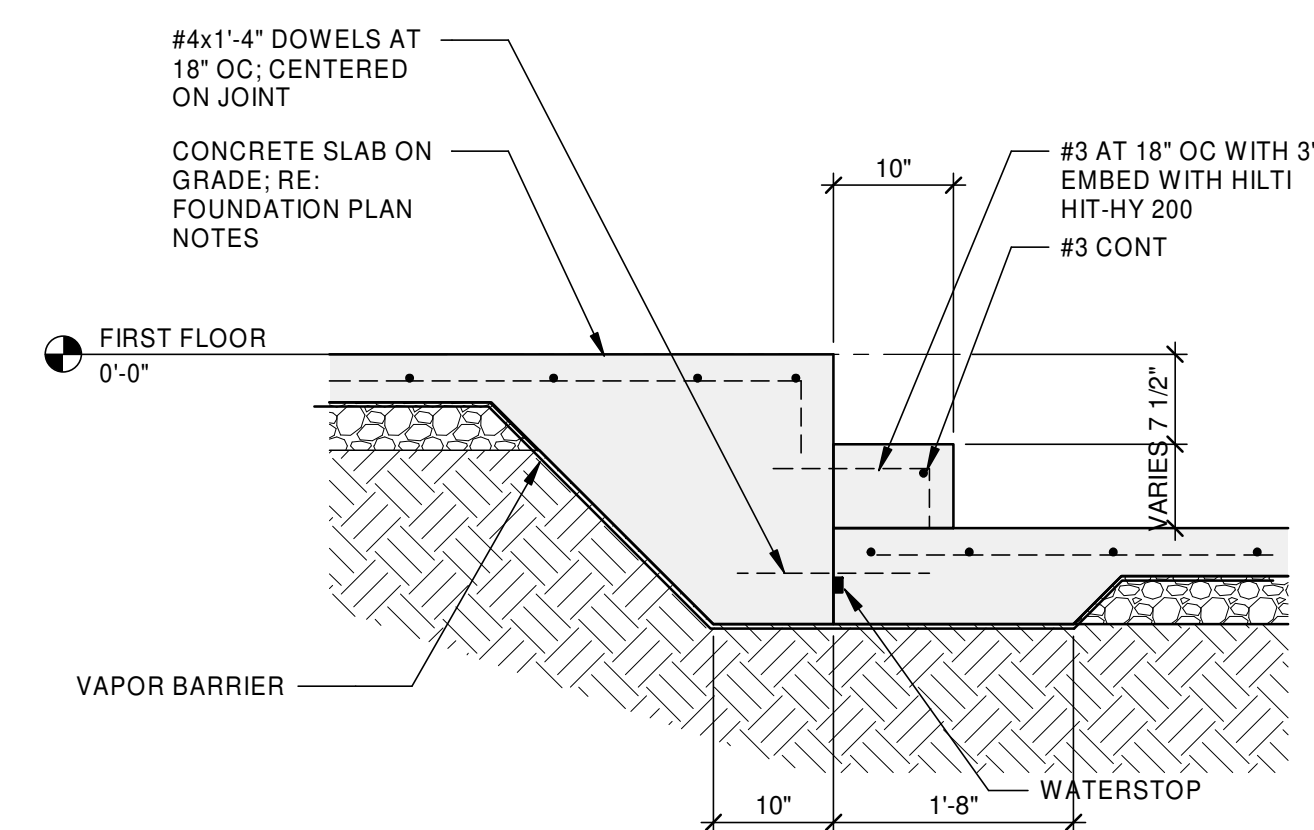
**2** TYPICAL EXTERIOR WALL FOOTING AT RECESSED GARAGE PHASE 1 AND PHASE 2  
3/4" = 1'-0"



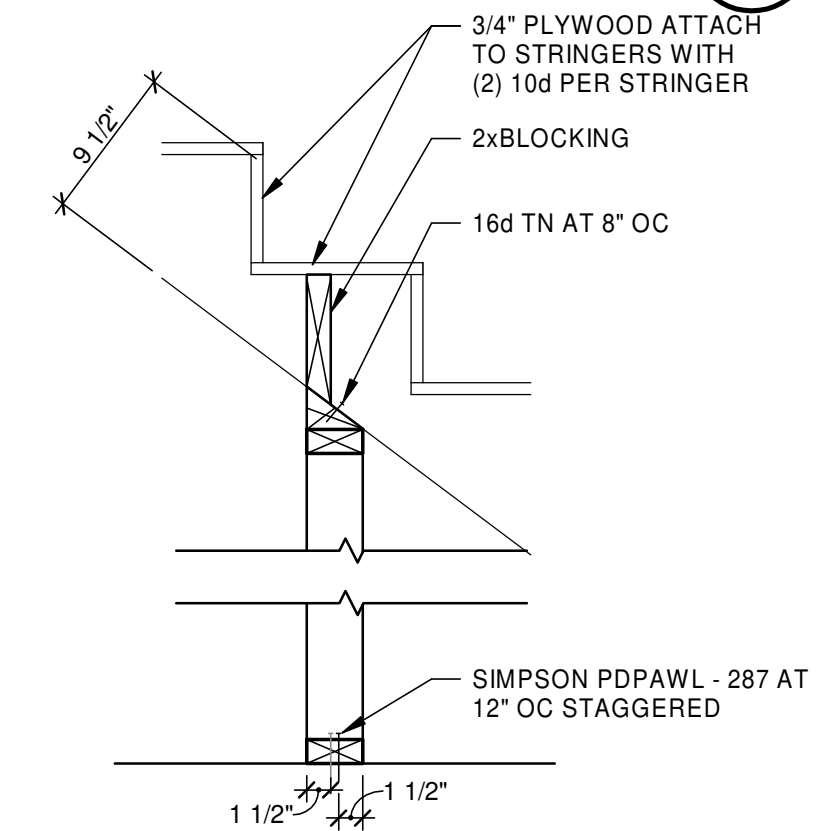
**3** TYPICAL INTERIOR CONT. FOOTING PHASE 1 AND PHASE 2  
3/4" = 1'-0"



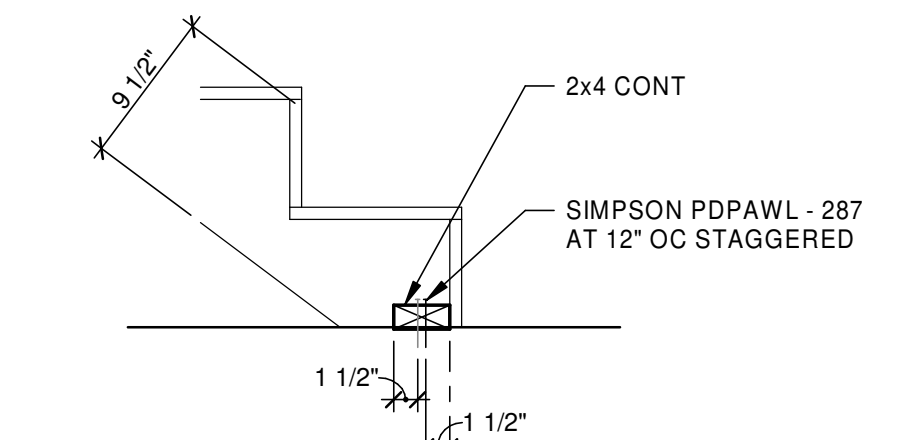
**4** SECTION AT GARAGE RECESS PHASE 1 AND PHASE 2  
3/4" = 1'-0"



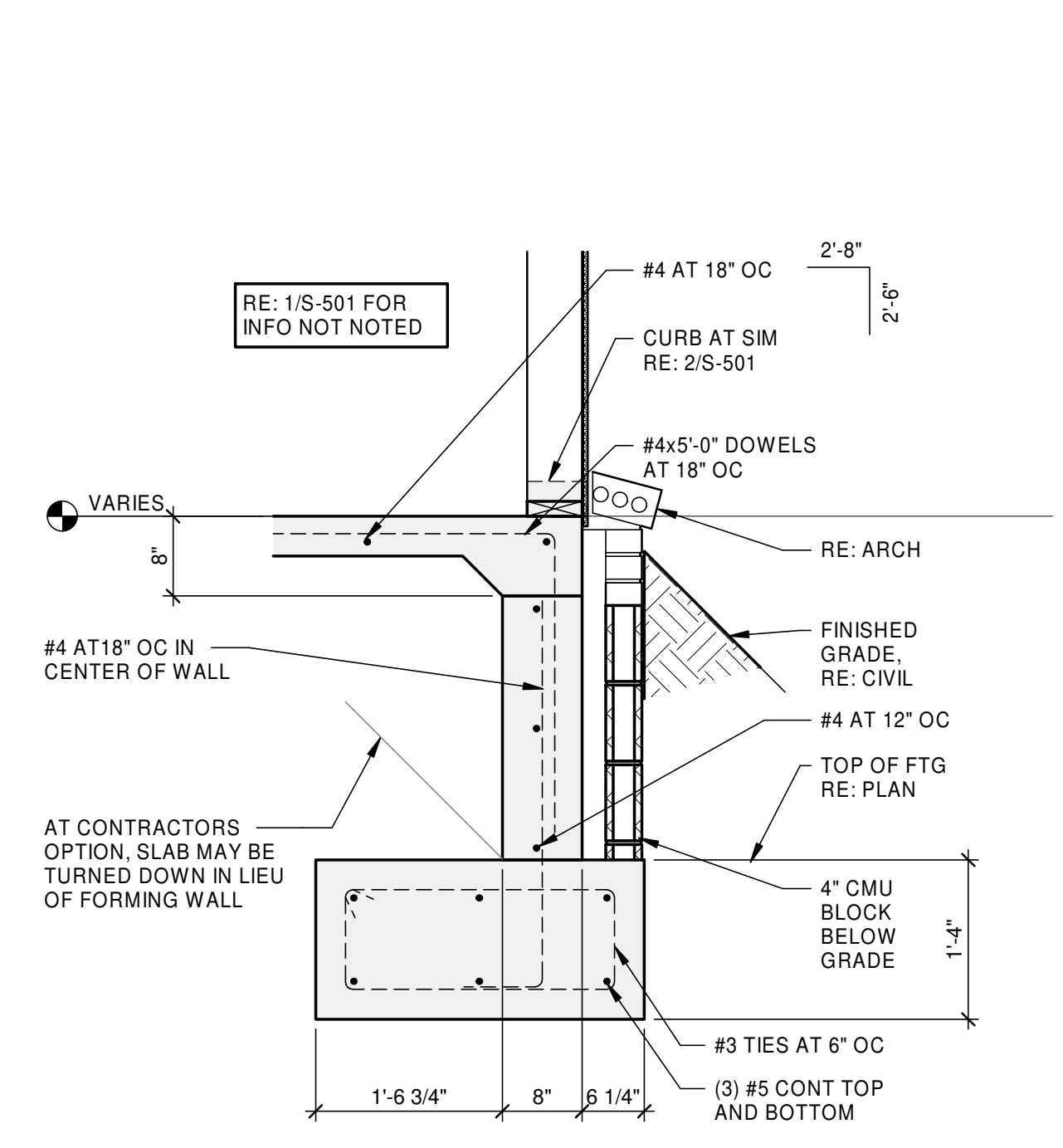
**5** SECTION AT GARAGE STEPS PHASE 1  
3/4" = 1'-0"



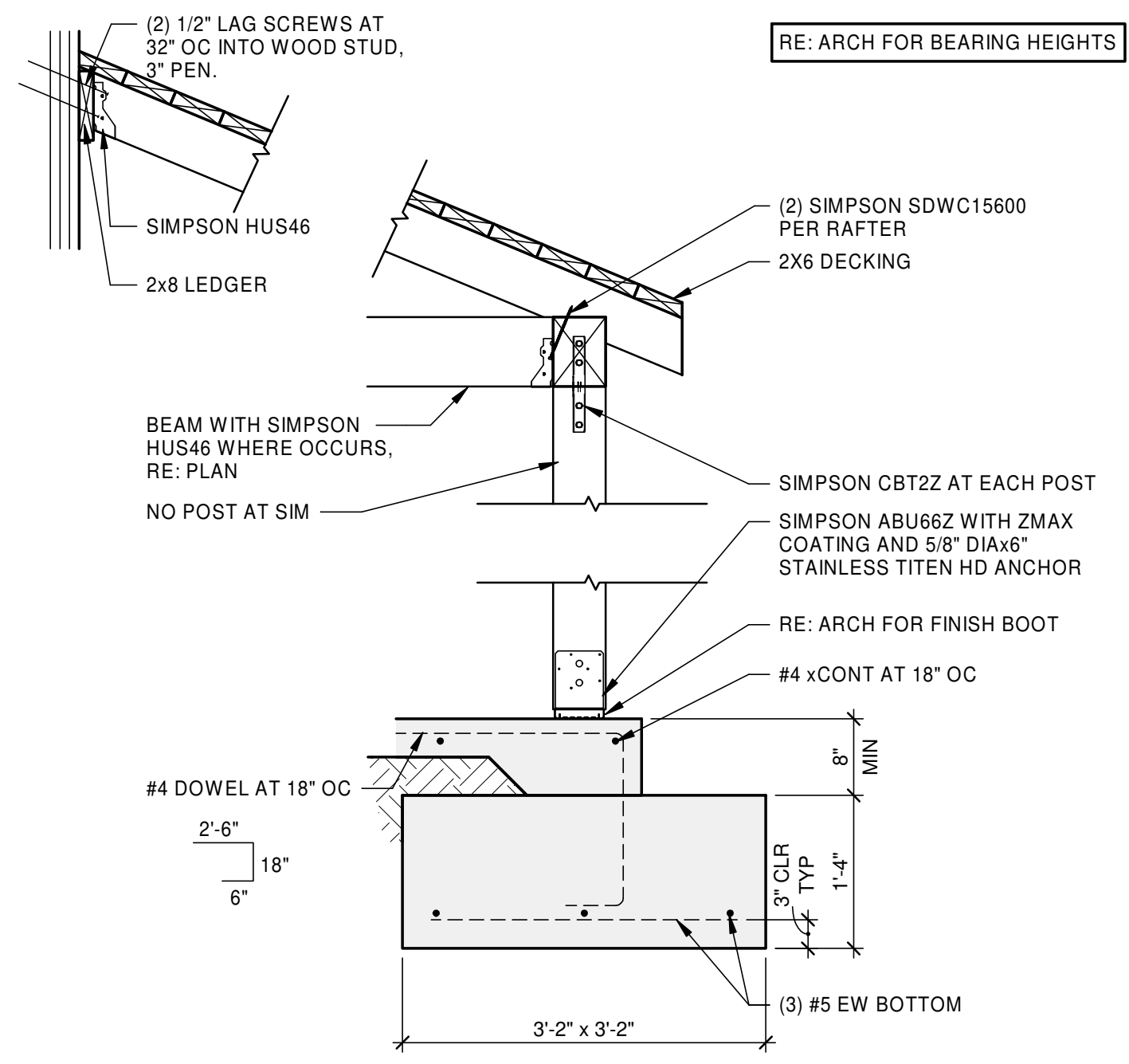
**7** LOAD BEARING PANTRY WALL AT STAIR STRINGER PHASE 1 AND PHASE 2  
1" = 1'-0"



**8** STRINGER DETAIL PHASE 1 AND PHASE 2  
1" = 1'-0"



**9** BUILDING #2 AND #4 FOUNDATION PHASE 1 AND PHASE 2  
3/4" = 1'-0"



**10** CANOPY DETAIL PHASE 1 AND PHASE 2  
3/4" = 1'-0"

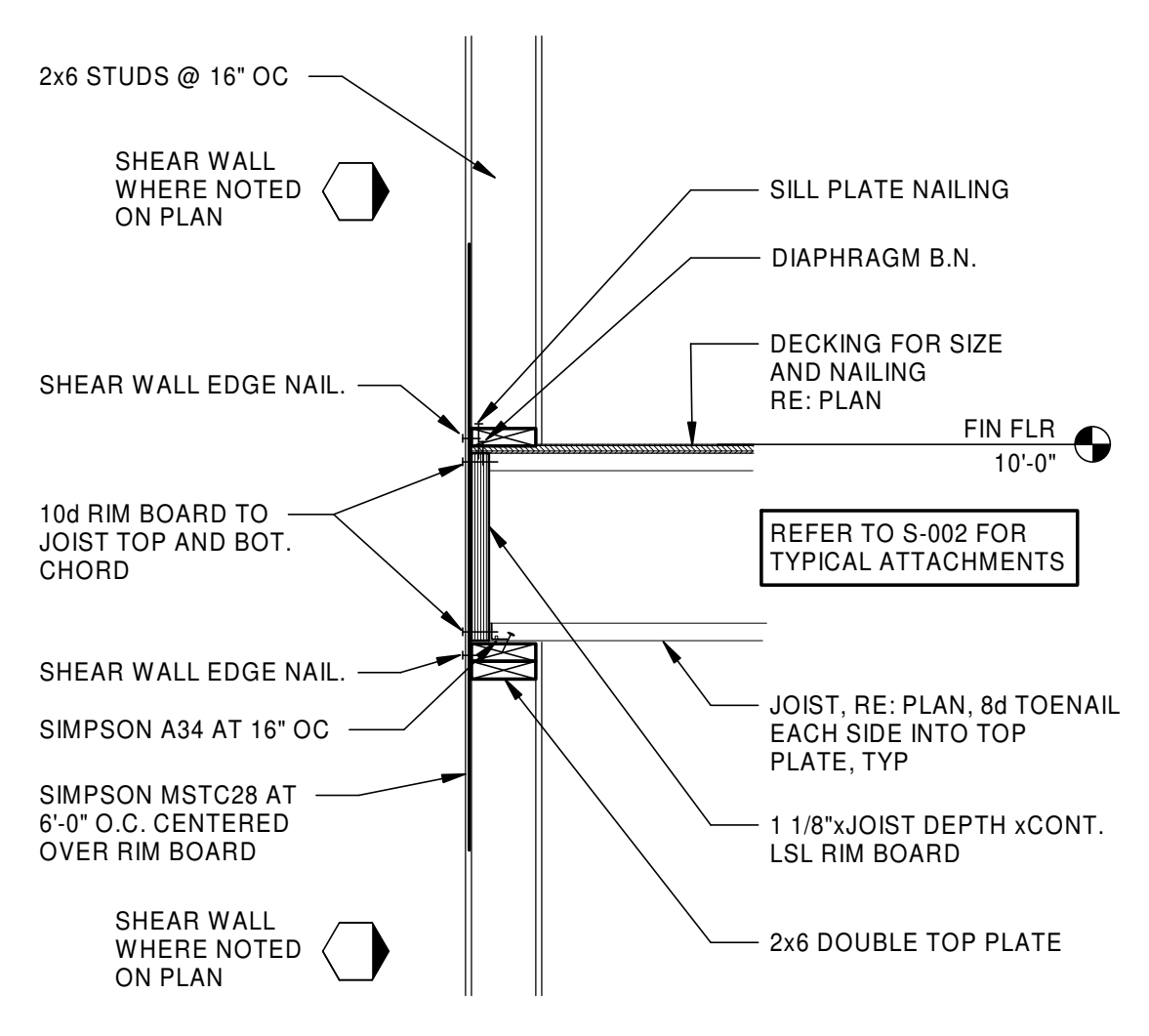
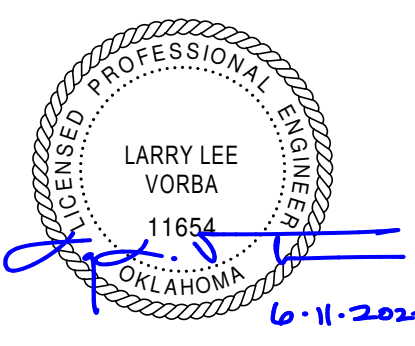
ISSUES / REVISIONS

NO.	DATE	DESCRIPTION

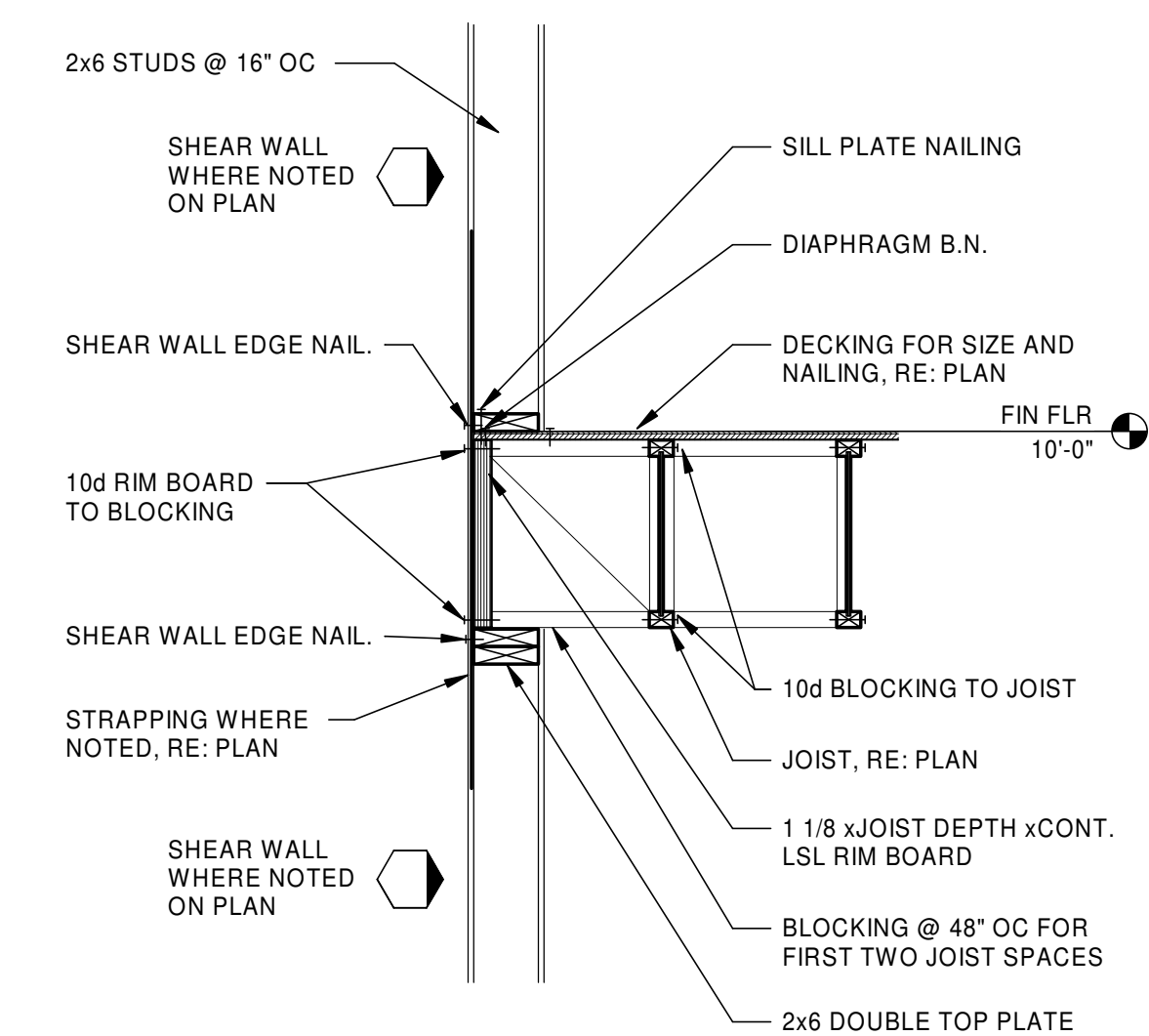
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: KJW  
DRAWN BY: RLR/EAE

SHEET NAME  
FOUNDATION DETAILS

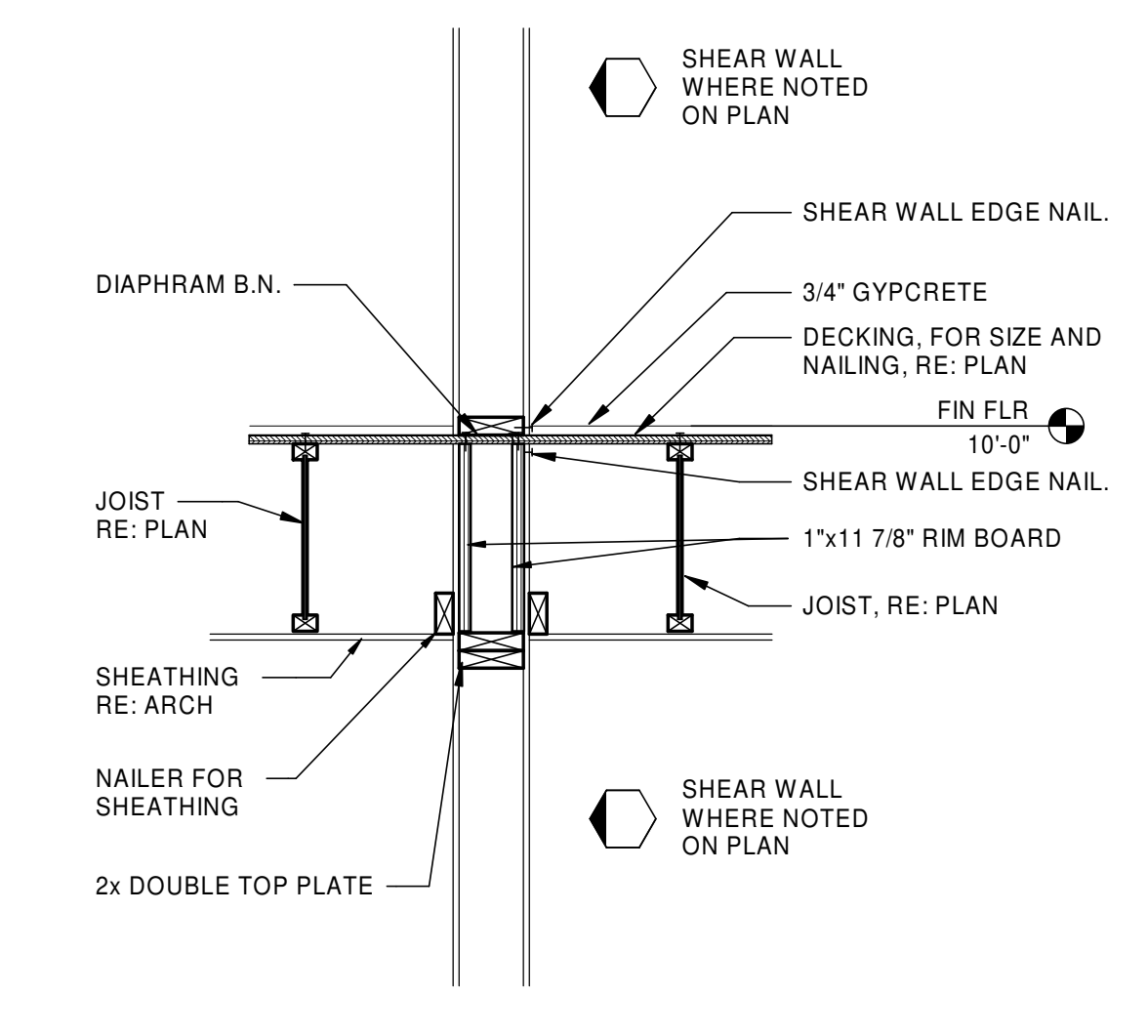
SHEET NUMBER  
**S-501**



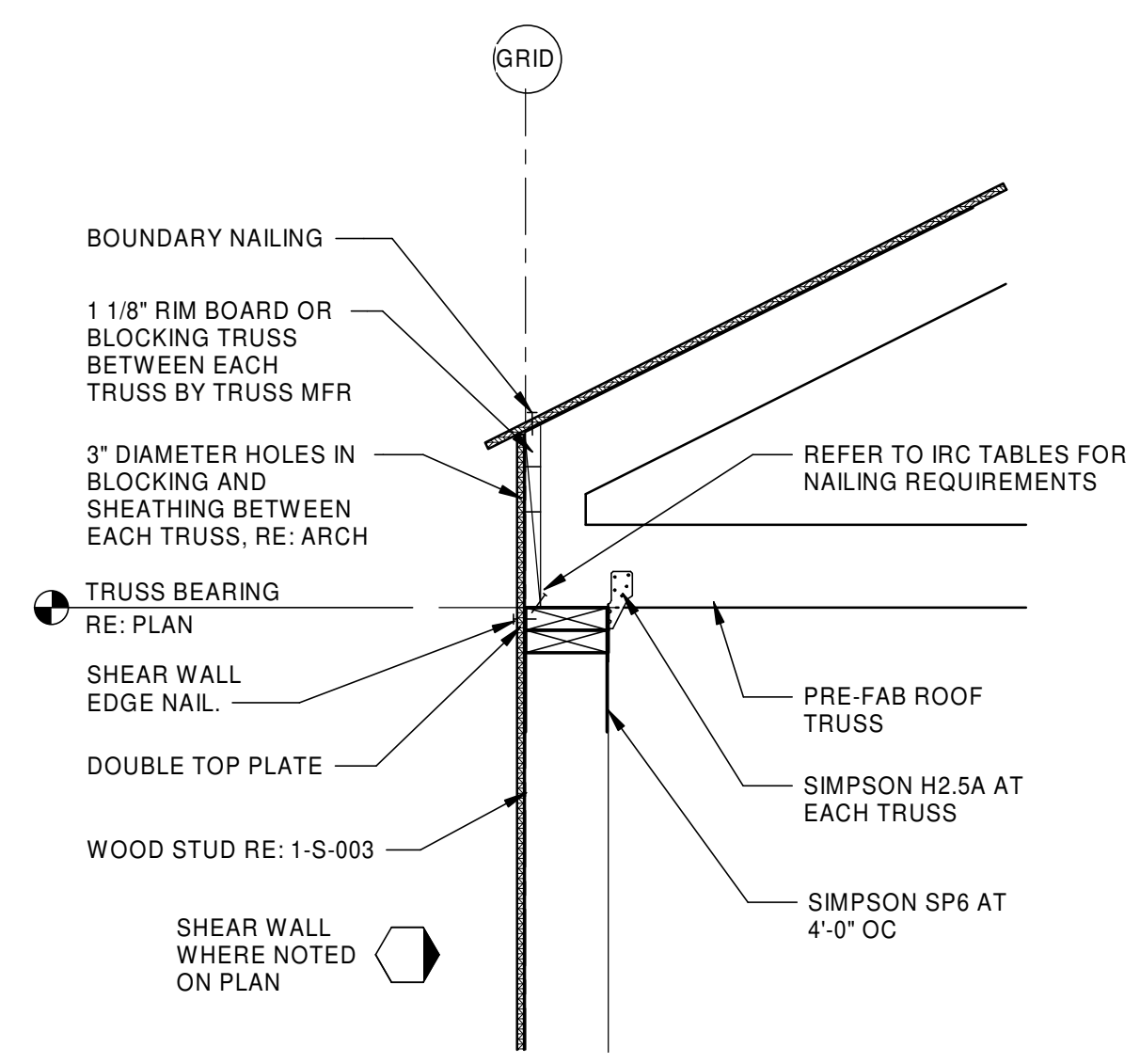
**1** TYPICAL JOIST BEARING AT EXTERIOR WALL PHASE 1 AND PHASE 2  
3/4" = 1'-0"



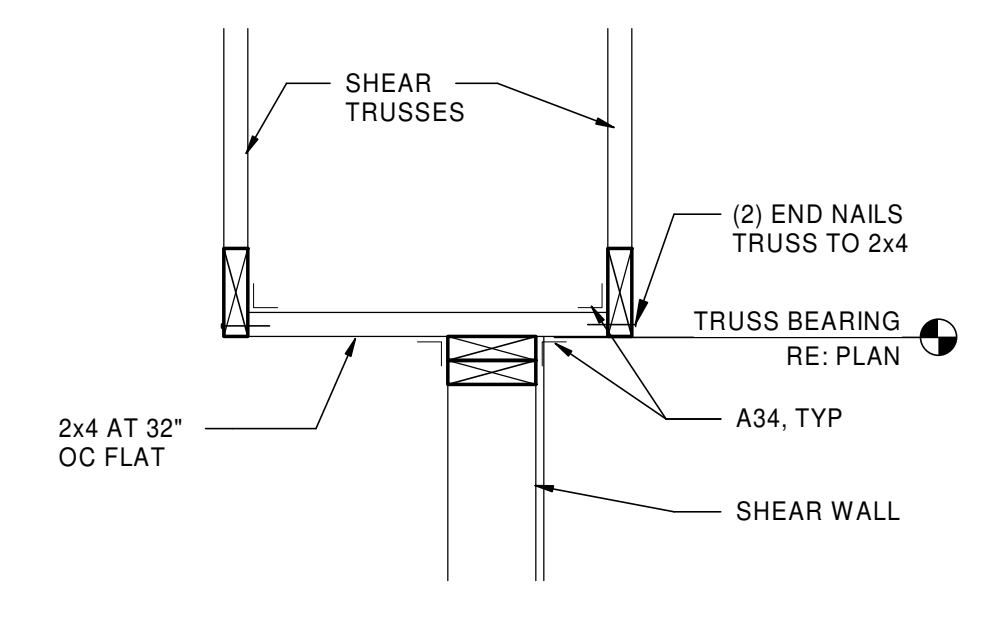
**2** TYPICAL JOIST PARALLEL TO EXTERIOR WALL PHASE 1 AND PHASE 2  
3/4" = 1'-0"



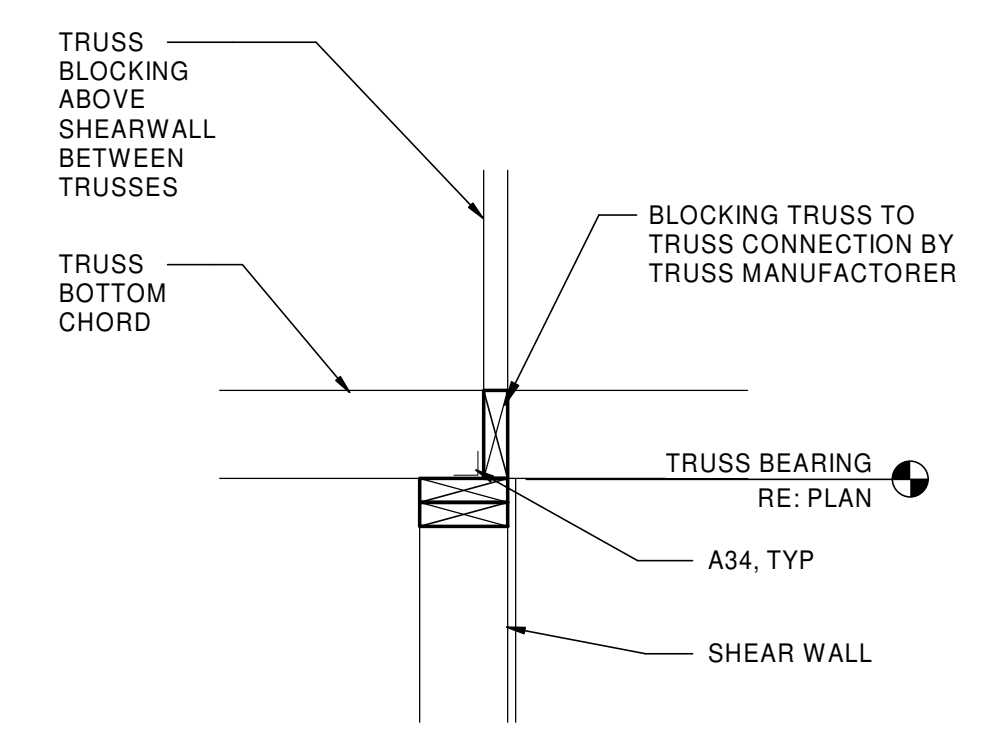
**3** TYPICAL FRAMING AT SHEARWALL PHASE 1 AND PHASE 2  
3/4" = 1'-0"



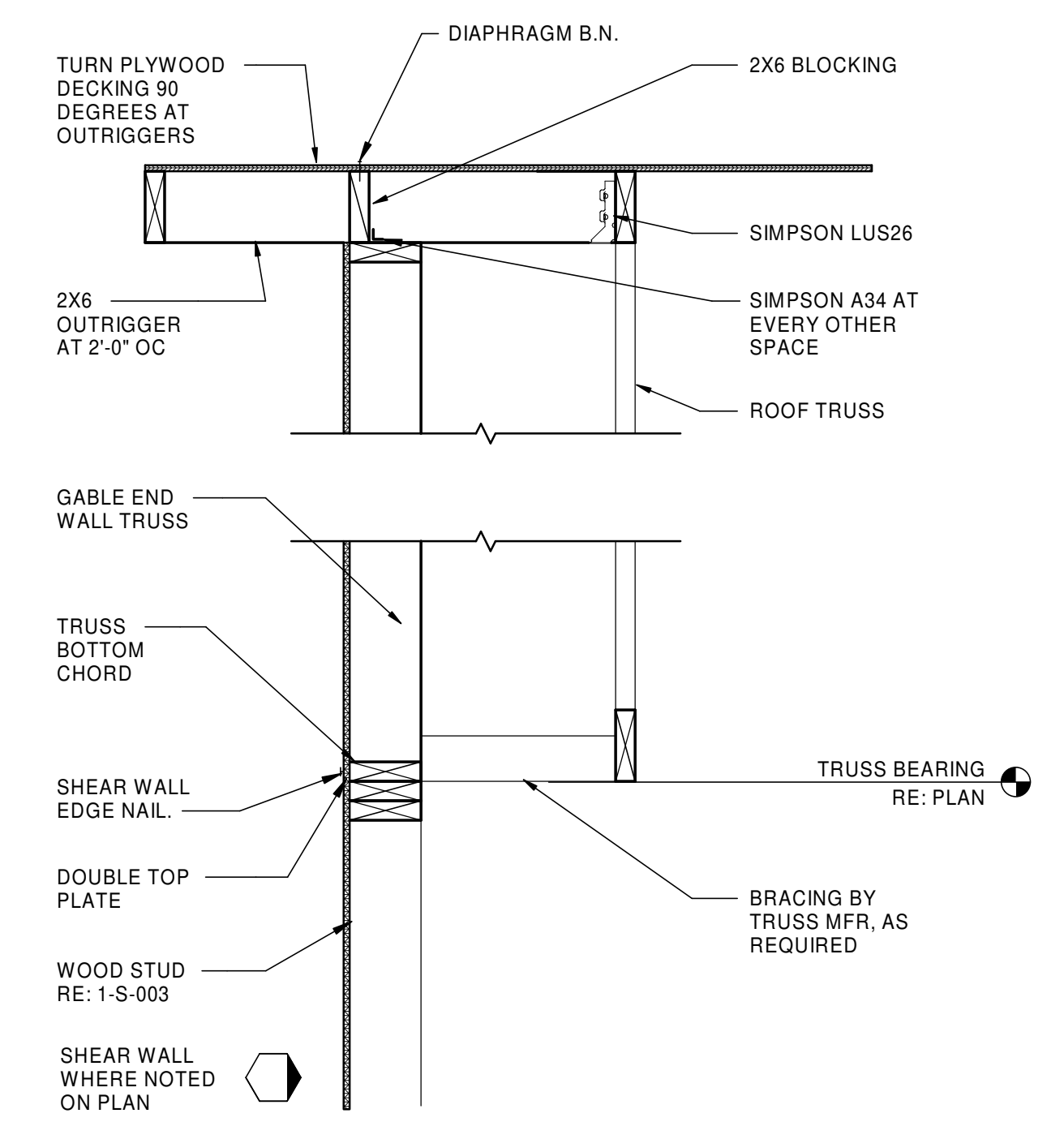
**4** TYPICAL ROOF FRAMING DETAIL PHASE 1 AND PHASE 2  
1" = 1'-0"



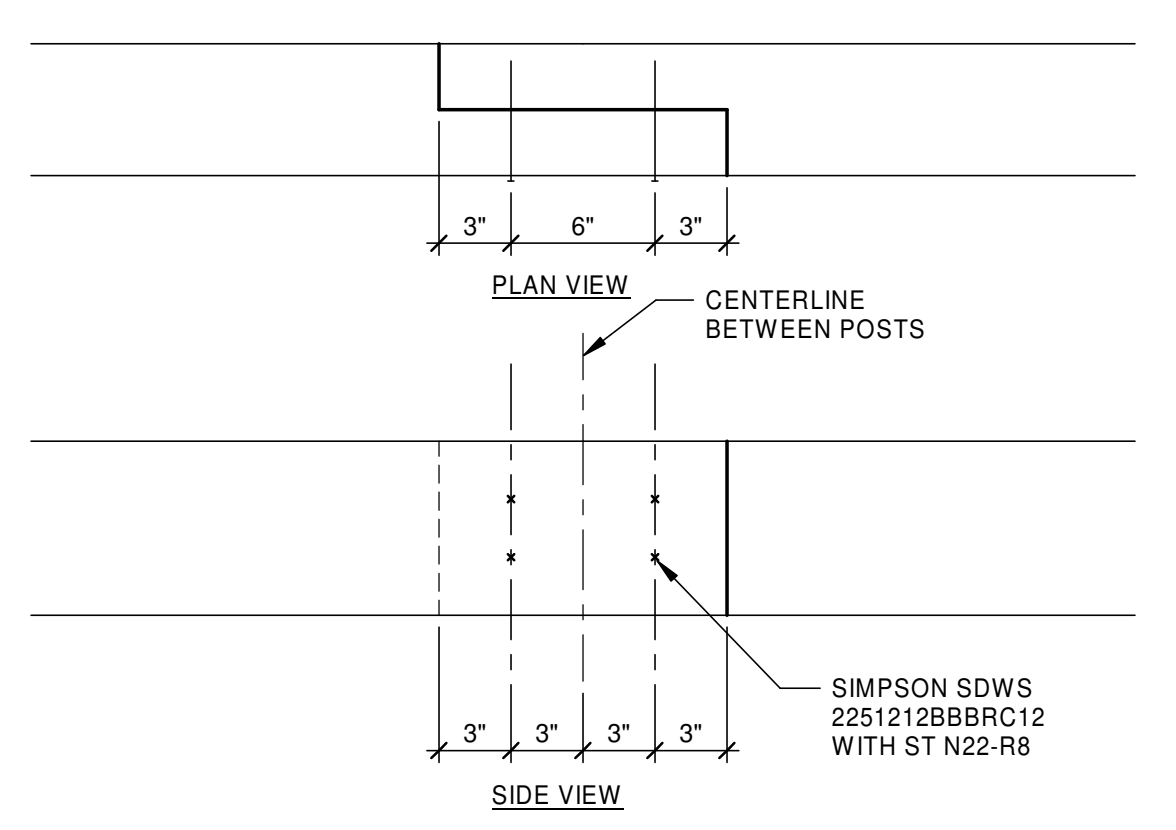
**5** SHEAR TRUSS PARALLEL SHEAR WALL PHASE 1 AND PHASE 2  
1" = 1'-0"



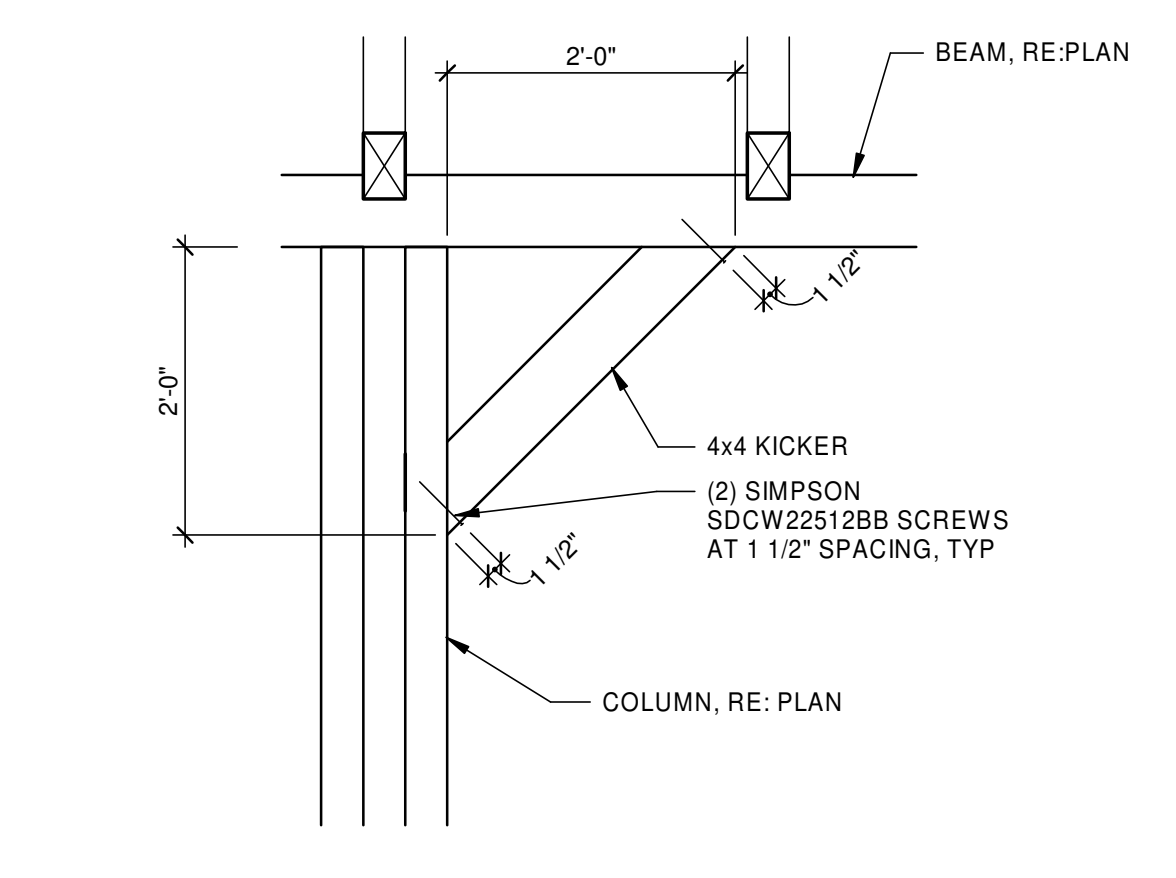
**6** SHEAR TRUSS PERPENDICULAR TO SHEAR WALL PHASE 1 AND PHASE 2  
1" = 1'-0"



**7** GABLE END ROOF FRAMING PHASE 1 AND PHASE 2  
1" = 1'-0"



**8** PATIO BEAM SPLICE DETAIL PHASE 1 AND PHASE 2  
1 1/2" = 1'-0"



**9** KICKER DETAIL PHASE 1 AND PHASE 2  
3/4" = 1'-0"

THE WHITTIER - PHASE 1  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

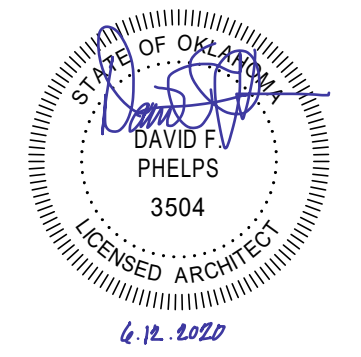
ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: KJW  
DRAWN BY: FLR

SHEET NAME  
FRAMING DETAILS

SHEET NUMBER  
**S-502**



DAVID F. PHELPS, AIA  
 ARCHITECT OF RECORD

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
 BOOMTOWN DEVELOPMENT COMPANY  
 68 NORTH LEWIS  
 TULSA, OK 74110

**ISSUES / REVISIONS**

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
 PROJECT NO: P05093.0100

CHECKED BY: LFG  
 DRAWN BY: JGF

SHEET NAME  
 SITE PLAN

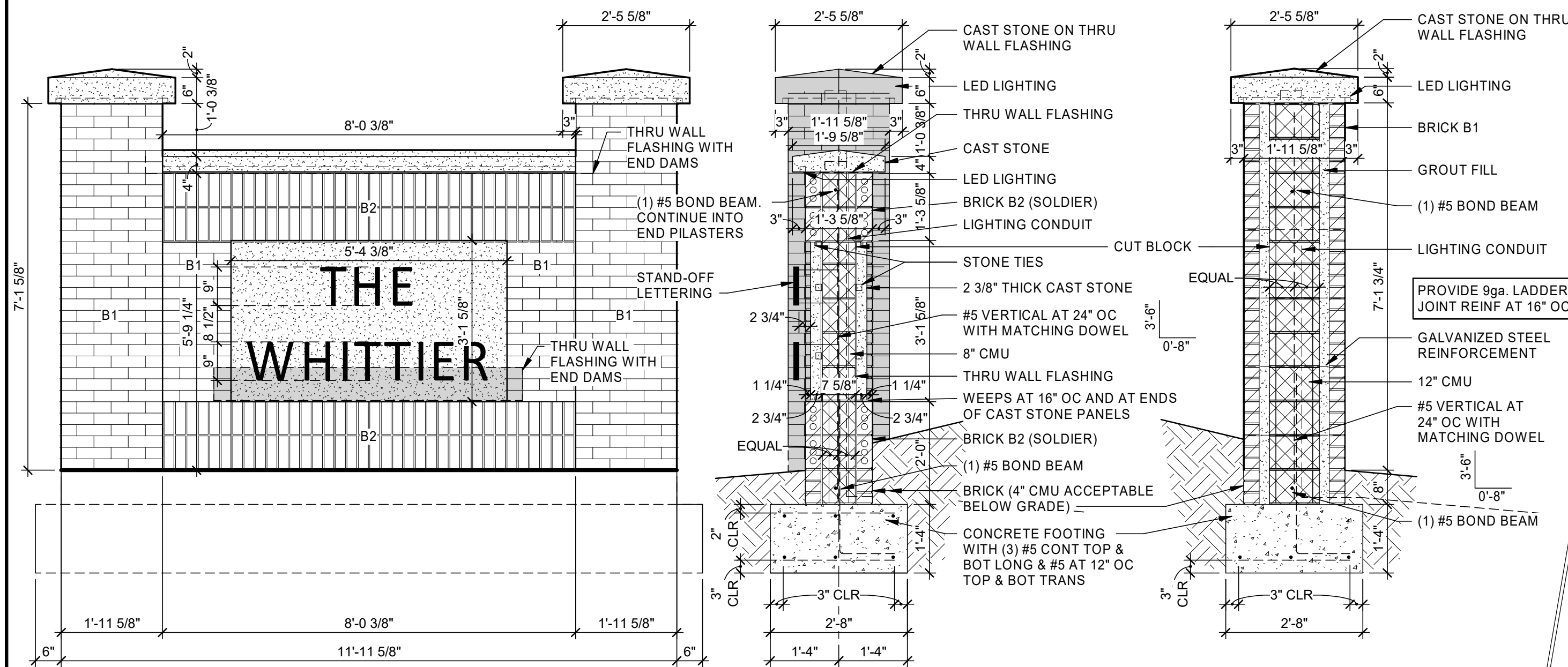
SHEET NUMBER

**AS101**

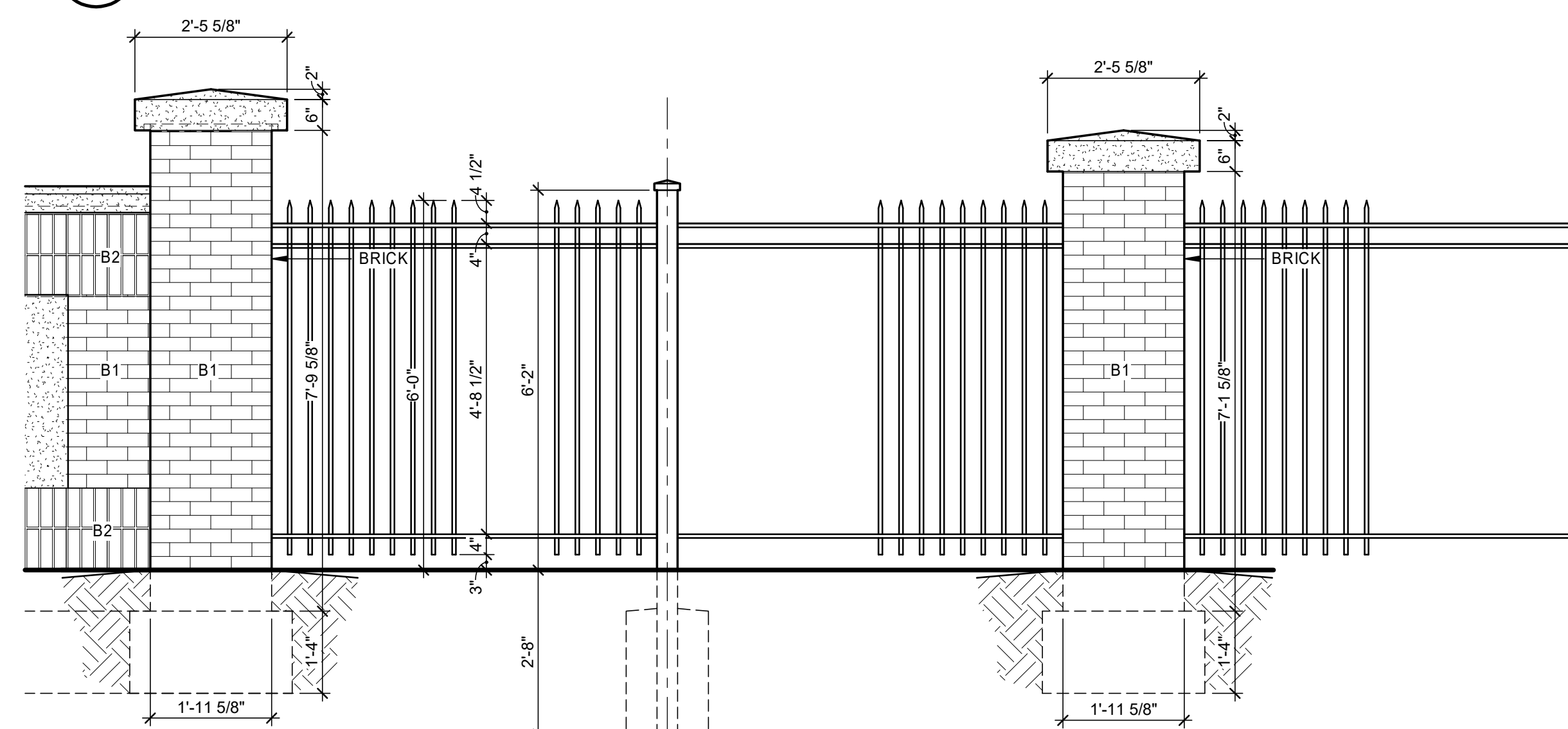
E. ADMIRAL PL. - HWY 244

NORTH LEWIS AVENUE

REFER TO CIVIL DRAWINGS FOR EXTENTS OF SITE WORK INCLUDED IN PHASE 1.



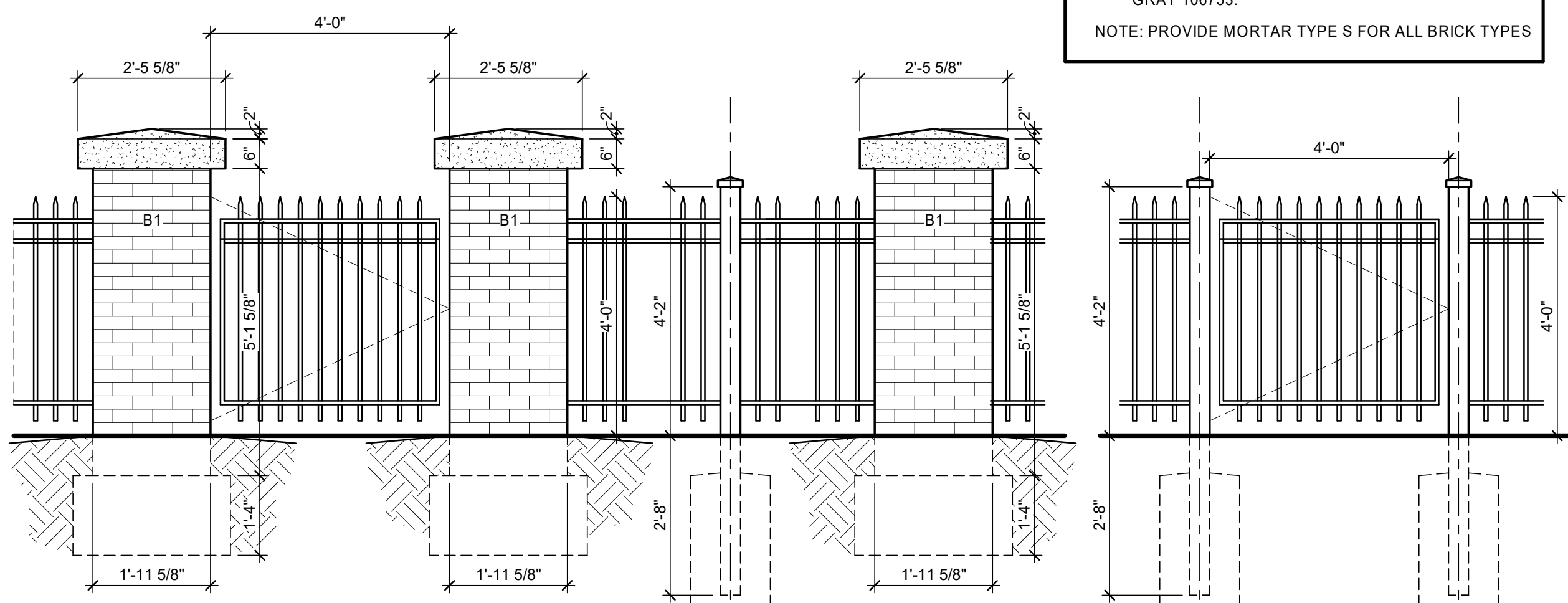
**1 MONUMENT PHASE 1**  
 1/2" = 1'-0"



**2 6-FT FENCE PHASE 1**  
 1/2" = 1'-0"

**BRICK LEGEND**

B1 - ACME MODULAR SIZE, 160 VELOUR, STEELE GRAY 106391.  
 B2 - ACME MODULAR SIZE, 166 VELOUR, MARBLE GRAY 106745.  
 B3 - ACME MODULAR SIZE, 166 SMOOTH, MARBLE GRAY 106753.  
 NOTE: PROVIDE MORTAR TYPE S FOR ALL BRICK TYPES



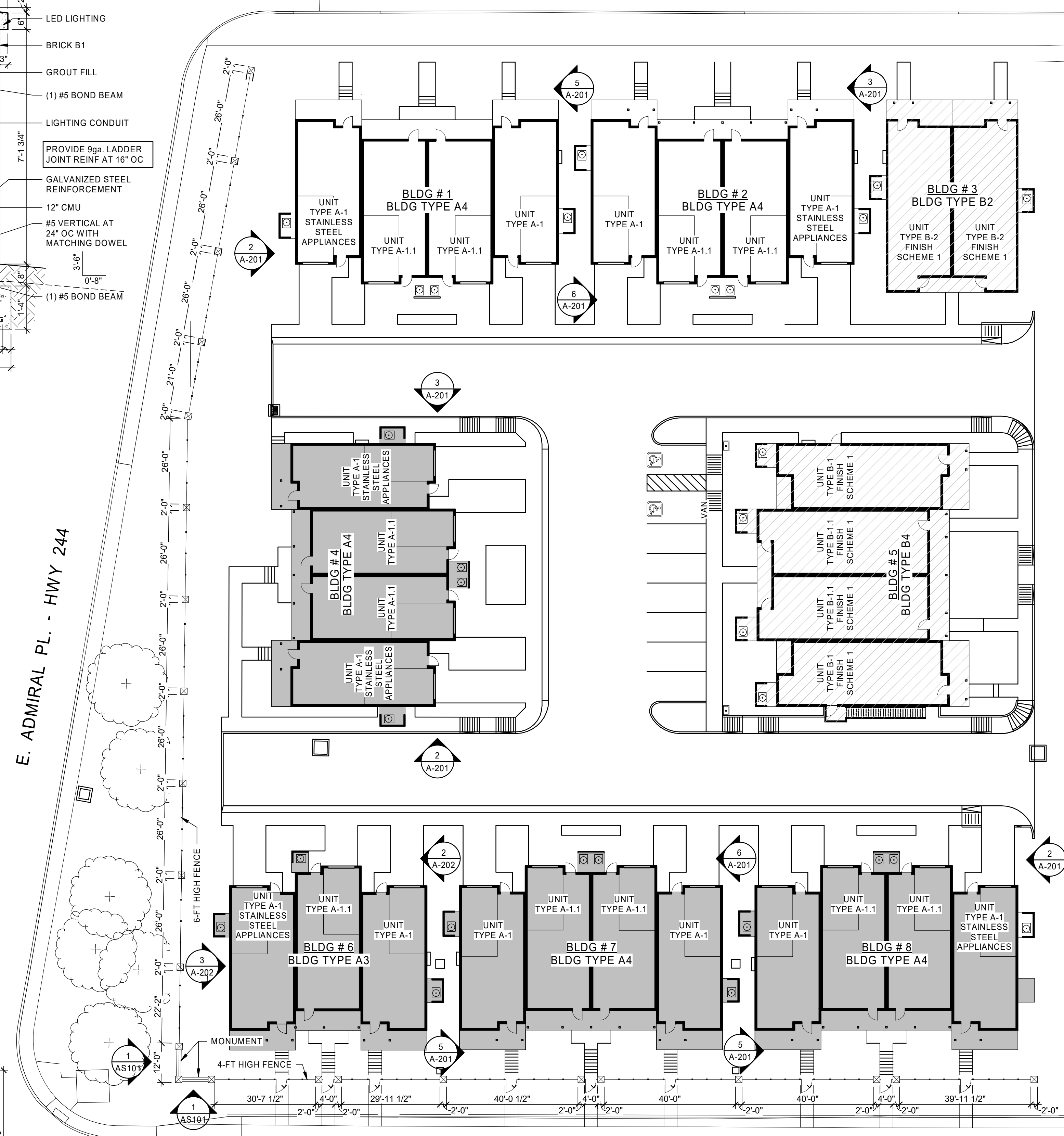
**3 4-FT WIDE GATE AND 4-FT FENCE PHASE 1**  
 1/2" = 1'-0"

**5 FENCE POST GATE PHASE 1**  
 1/2" = 1'-0"

**4 SITE PLAN**  
 1" = 20'-0"

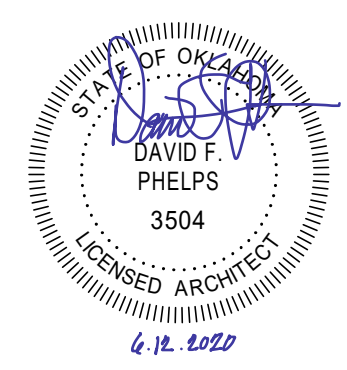
**PHASING LEGEND**

[White Box]	PHASE 1
[Grey Box]	PHASE 2
[Hatched Box]	FUTURE - BY OTHERS



Printed: 01/20/2020 10:13:40 AM  
 C:\Users\whitner\Documents\Revit Files\Whittier\_Highway\_Arch\_2018\_Whittier.rvt





DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

**ISSUES / REVISIONS**

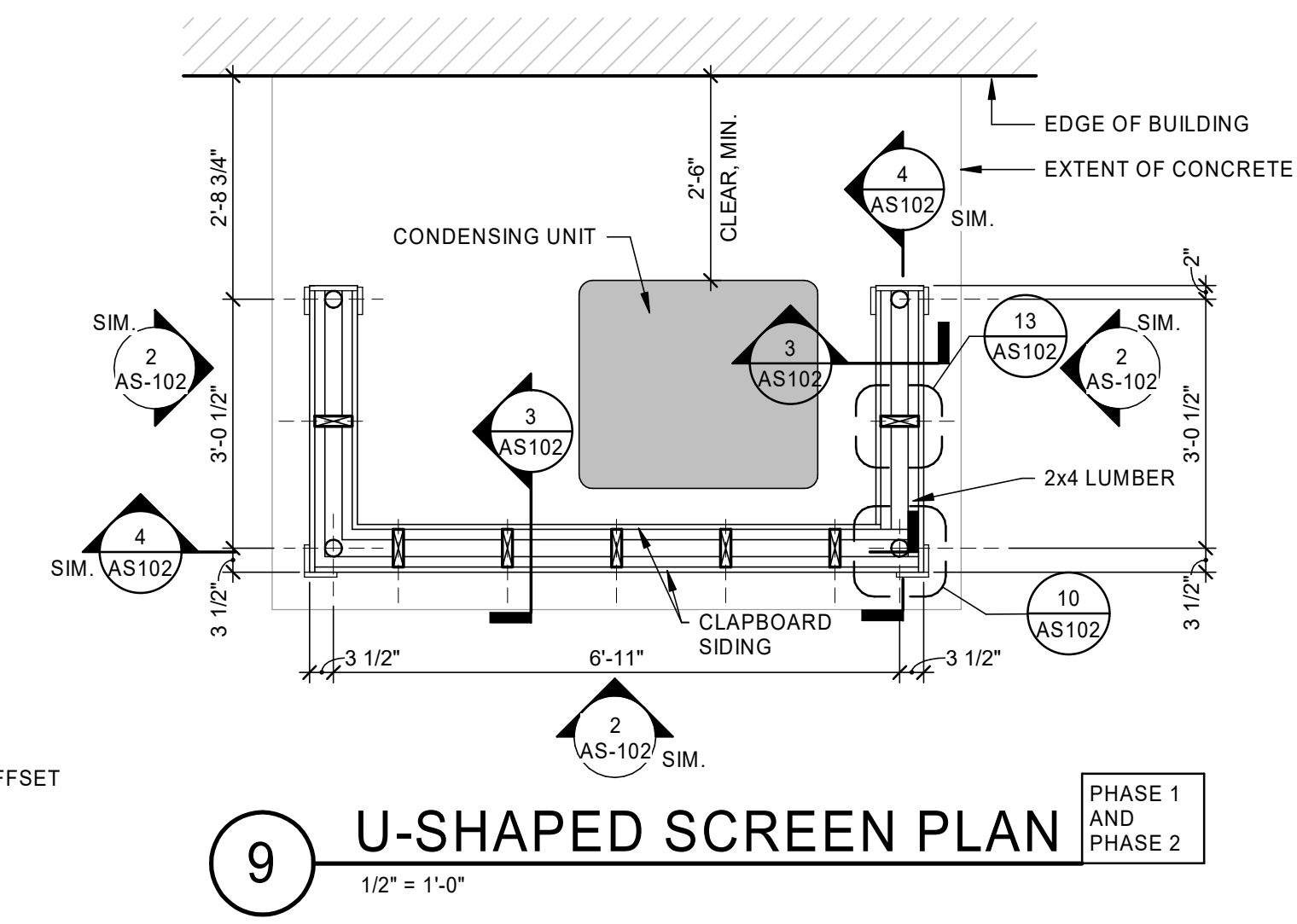
NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: AK

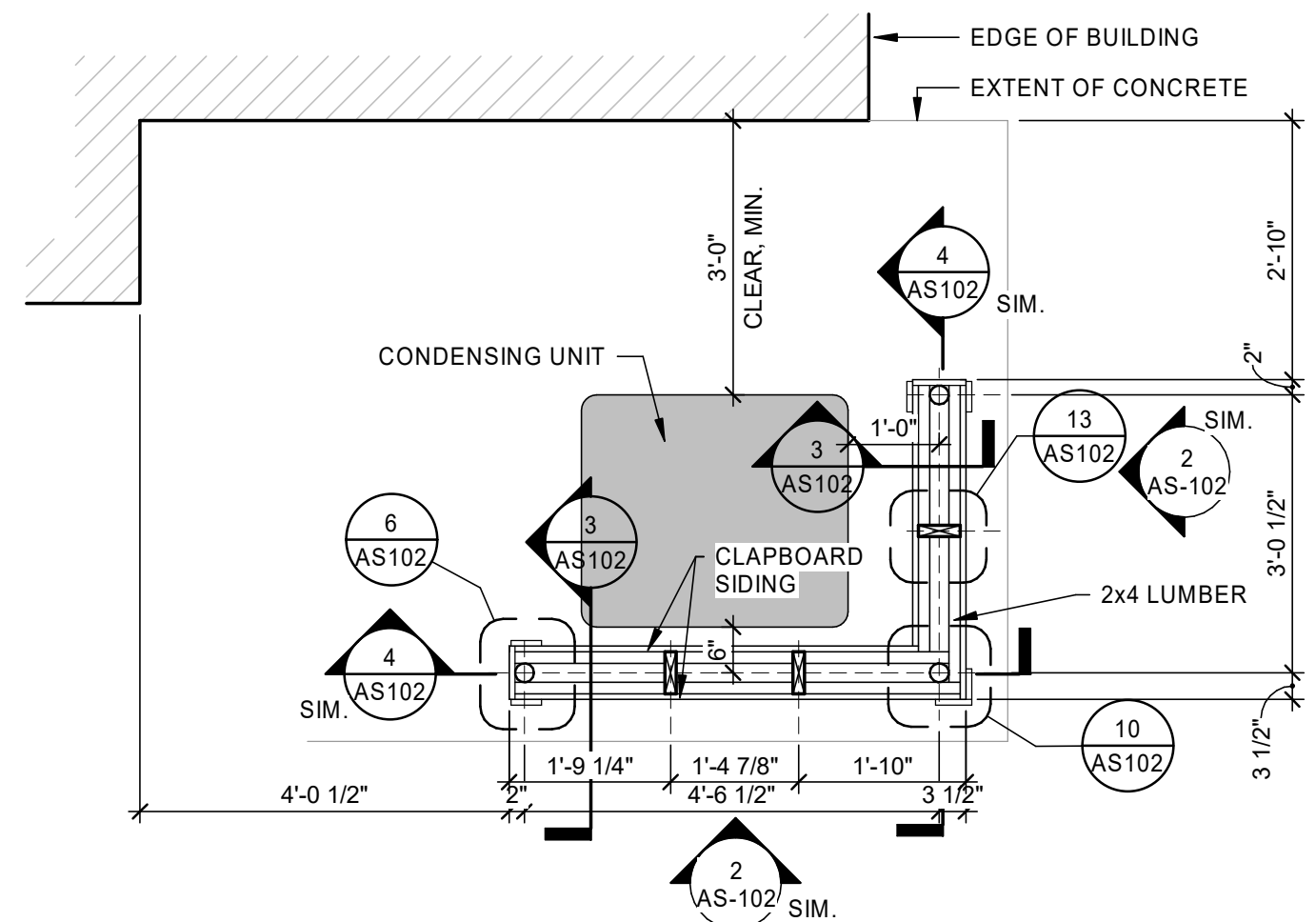
SHEET NAME  
**SITE DETAILS**

SHEET NUMBER

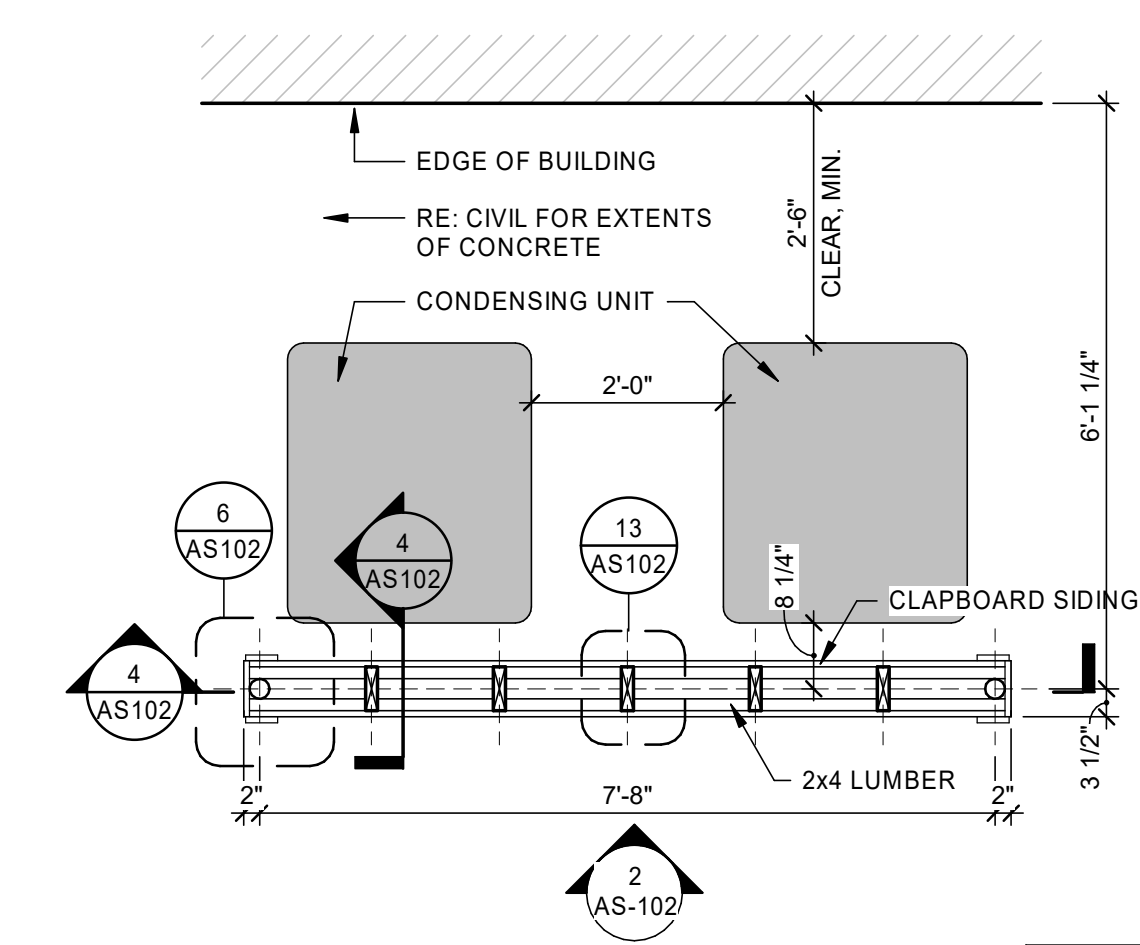
**AS102**



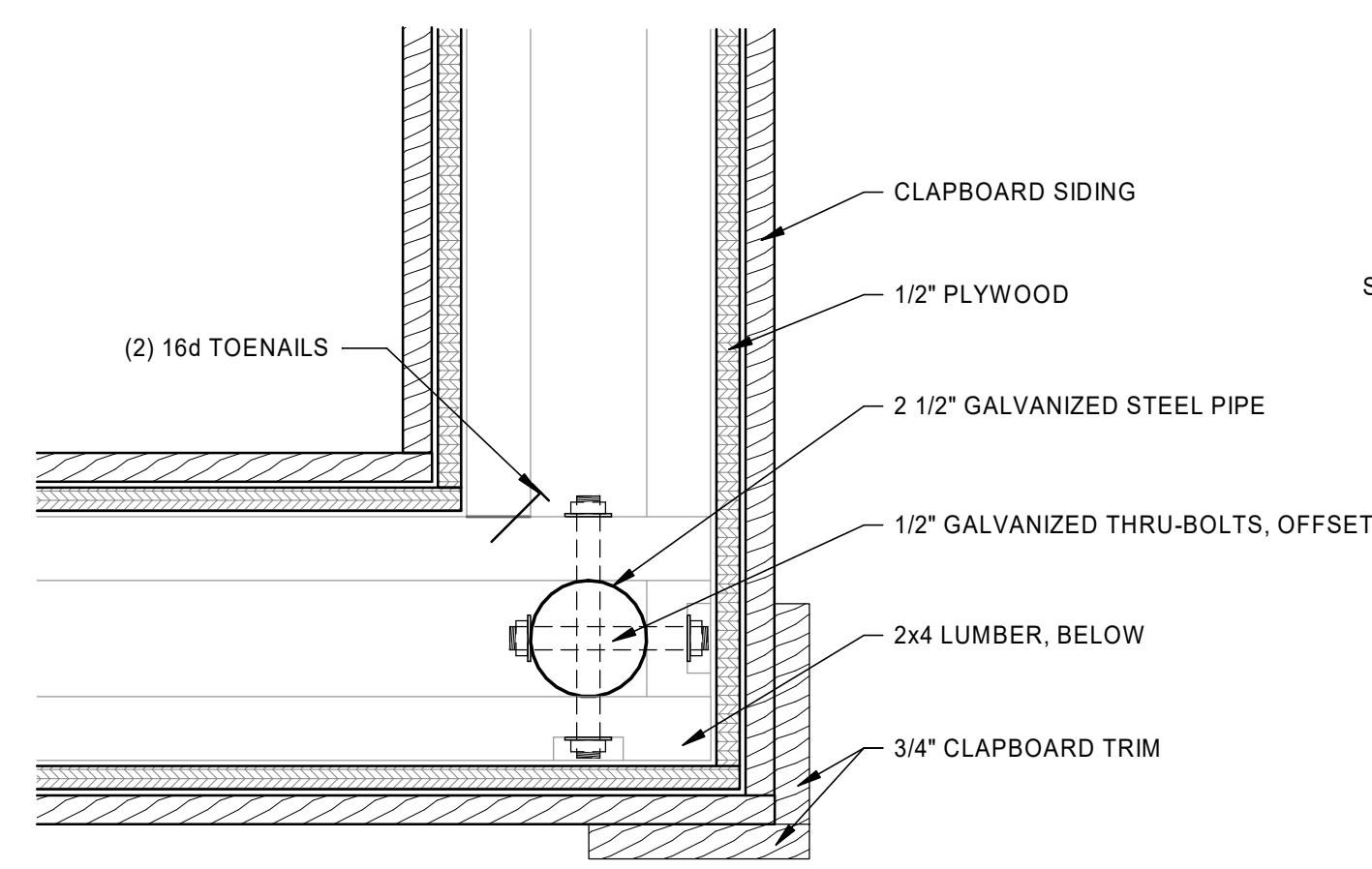
**9 U-SHAPED SCREEN PLAN**  
1/2" = 1'-0"



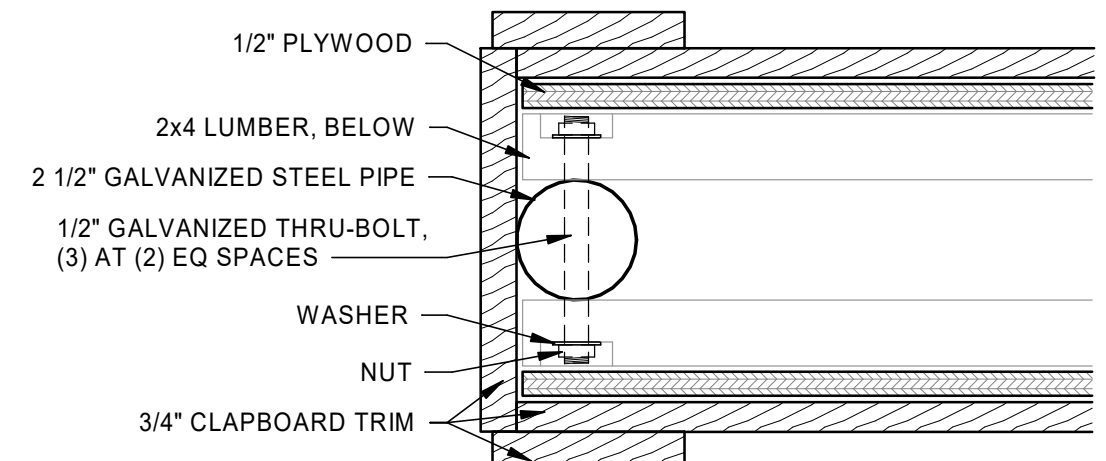
**5 CORNER SCREEN PLAN**  
1/2" = 1'-0"



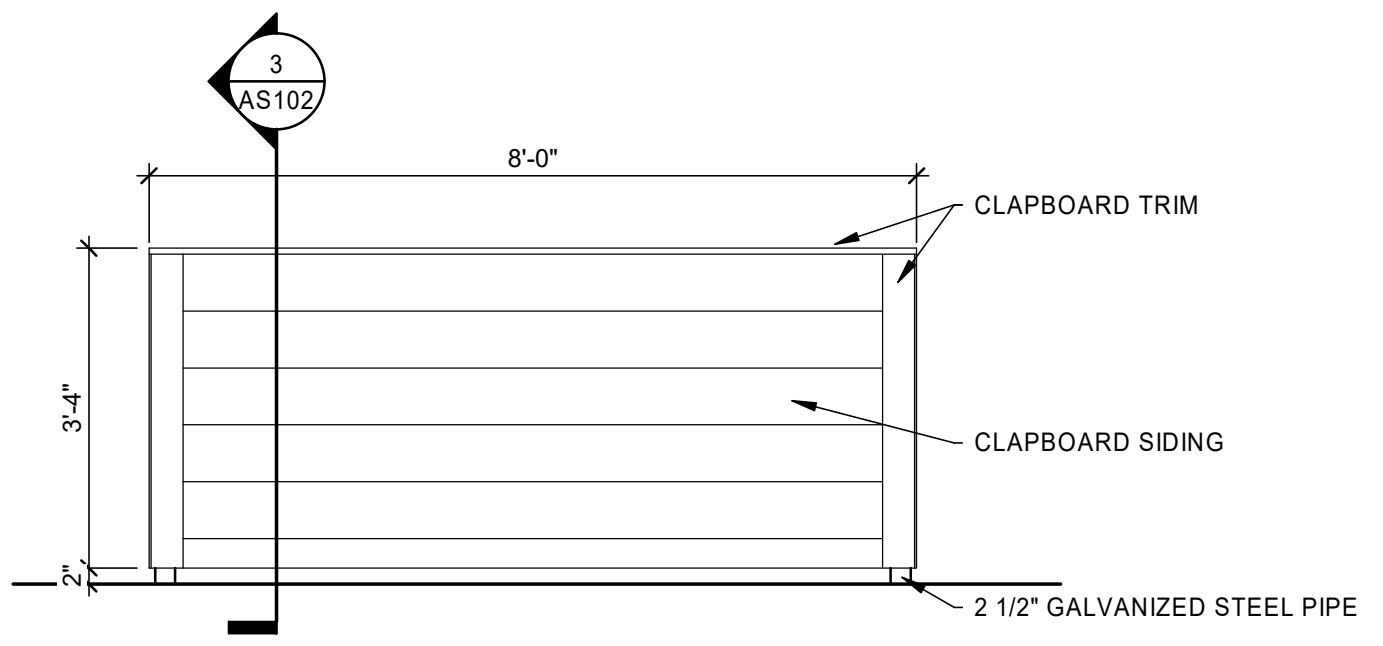
**1 STRAIGHT SCREEN PLAN**  
1/2" = 1'-0"



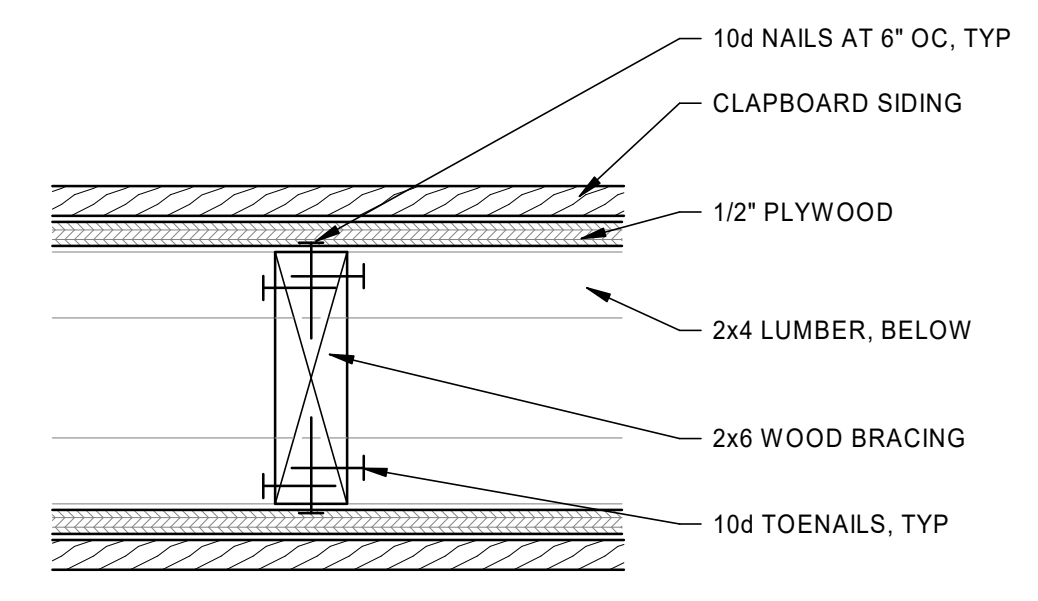
**10 CORNER DETAIL**  
3" = 1'-0"



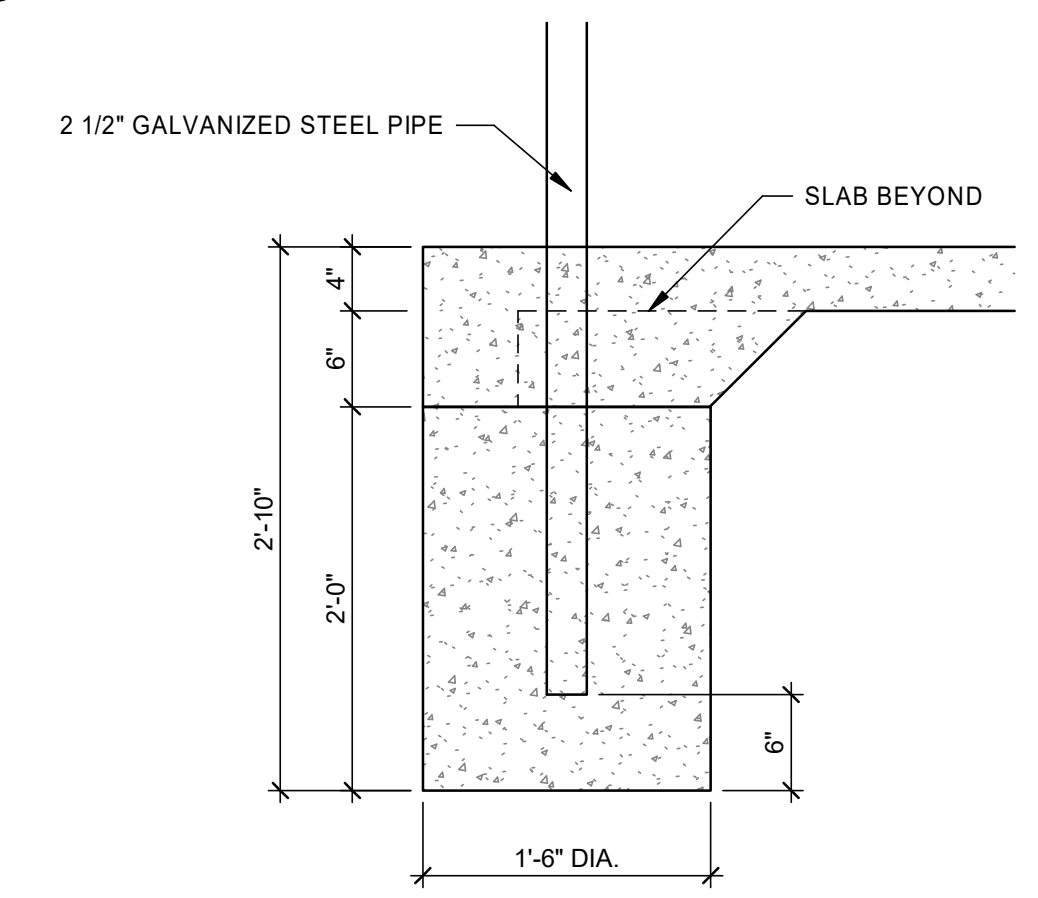
**6 TRIM DETAIL**  
3" = 1'-0"



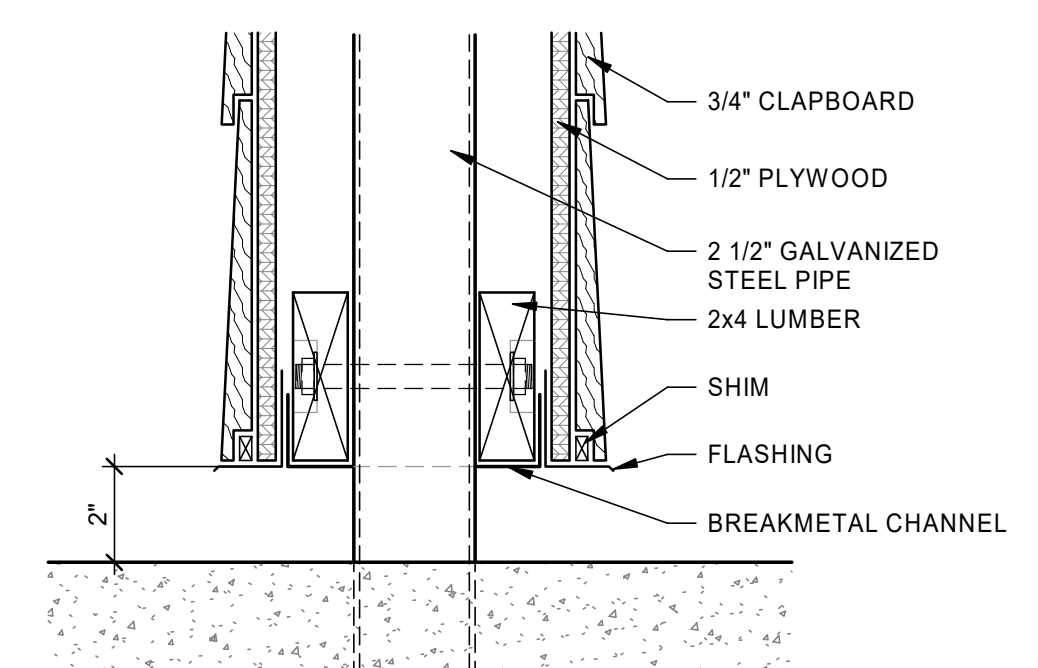
**2 STRAIGHT SCREEN ELEVATION**  
1/2" = 1'-0"



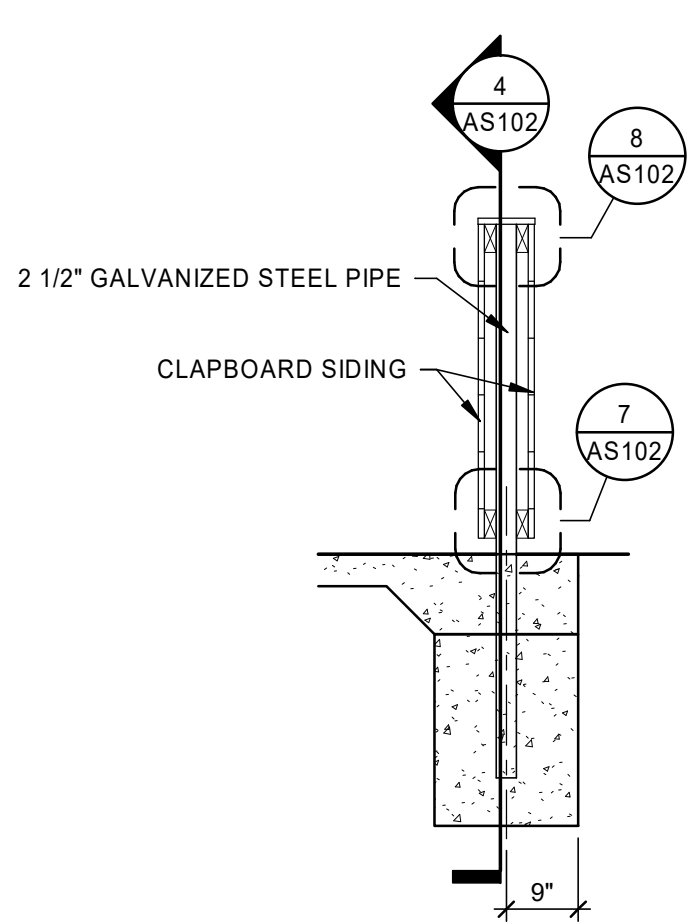
**13 INTERNAL SCREEN BRACING**  
3" = 1'-0"



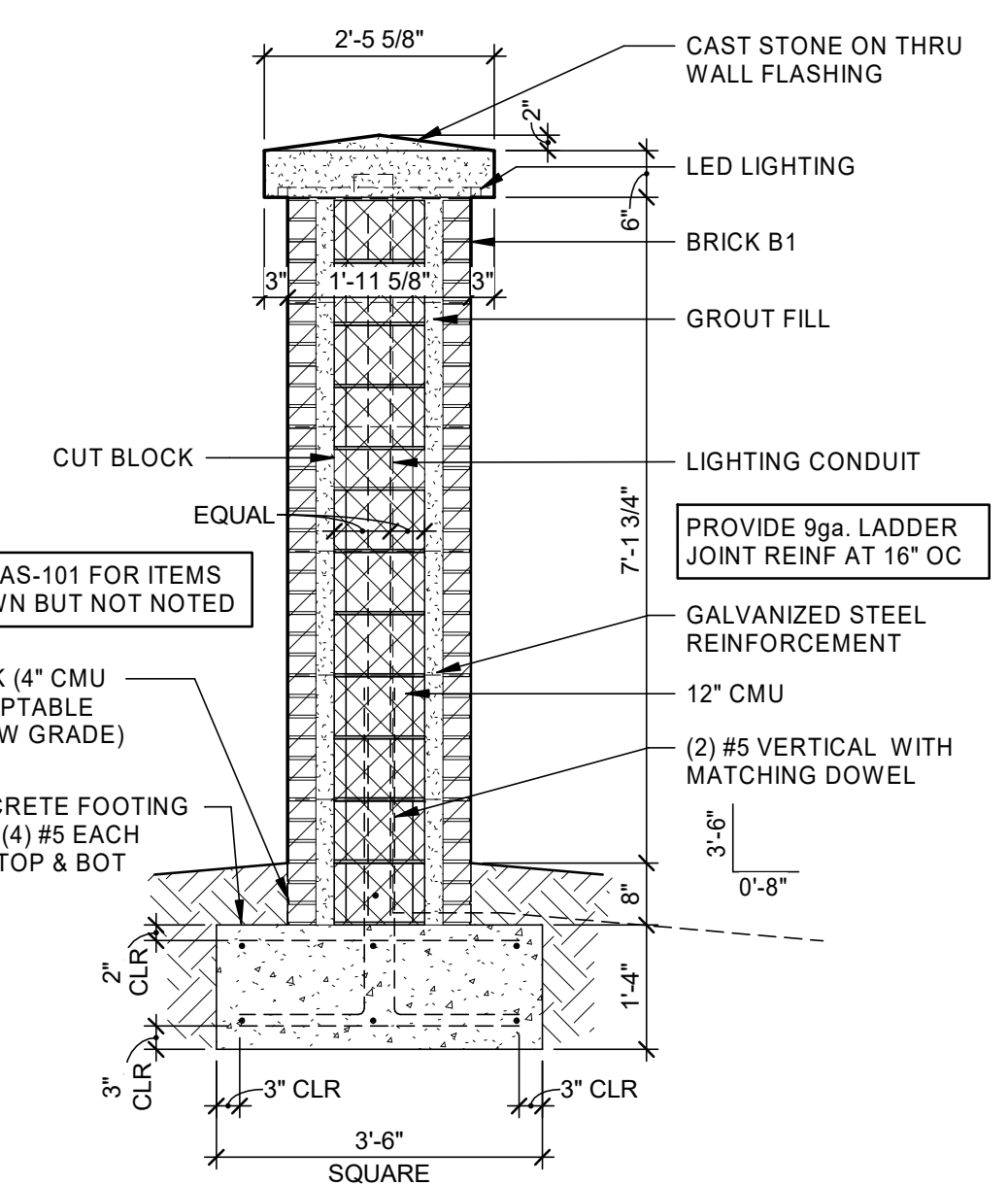
**11 SCREEN WALL SLAB DETAIL**  
1" = 1'-0"



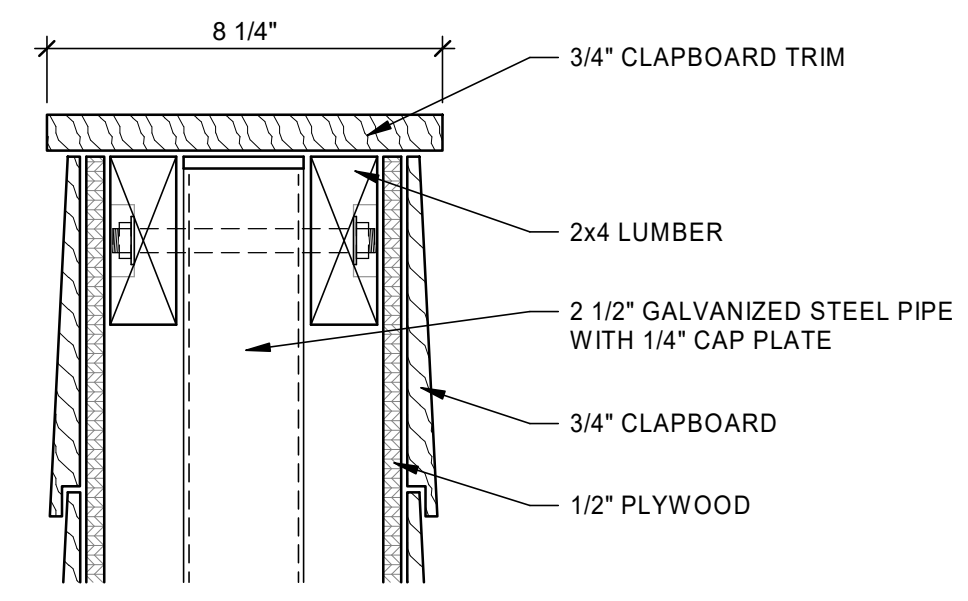
**7 SCREEN BASE DETAIL**  
3" = 1'-0"



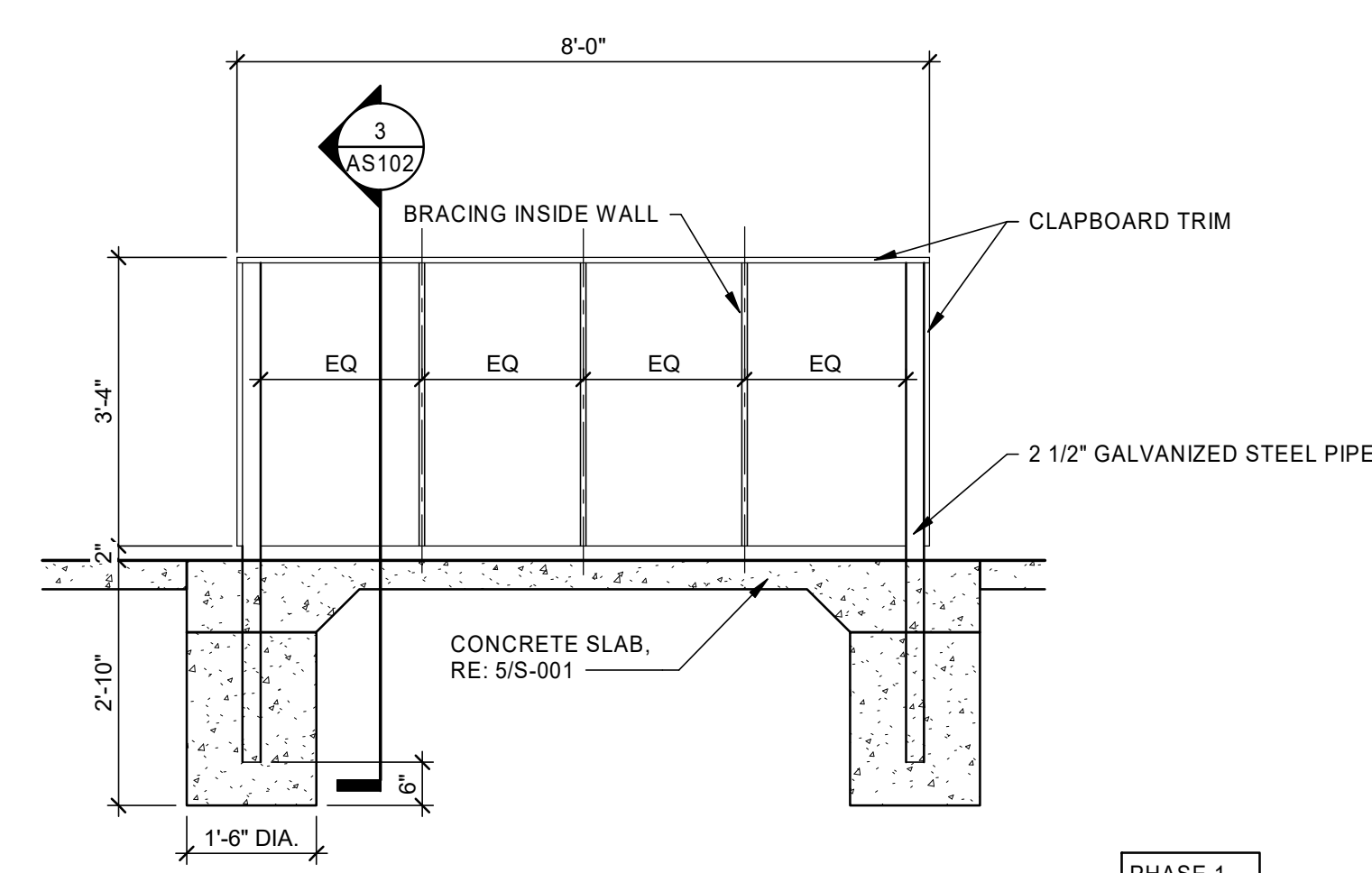
**3 SCREEN SECTION**  
1/2" = 1'-0"



**12 FENCE PILASTERS**  
1/2" = 1'-0"

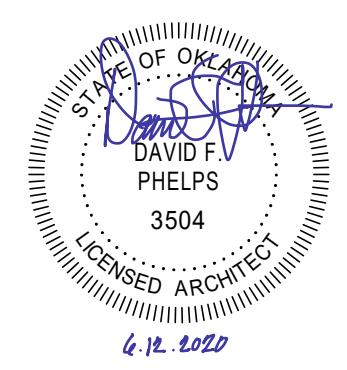


**8 SCREEN TOP DETAIL**  
3" = 1'-0"



**4 STRAIGHT SCREEN SECTION 2**  
1/2" = 1'-0"

Printed: 01/20/2020 10:13:42 AM  
 C:\Users\whittier\Documents\Drawings\115 Whittier\_Highway\_Arch\_2018\_Whittier.rvt



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100

CHECKED BY: LFG  
DRAWN BY: JGF

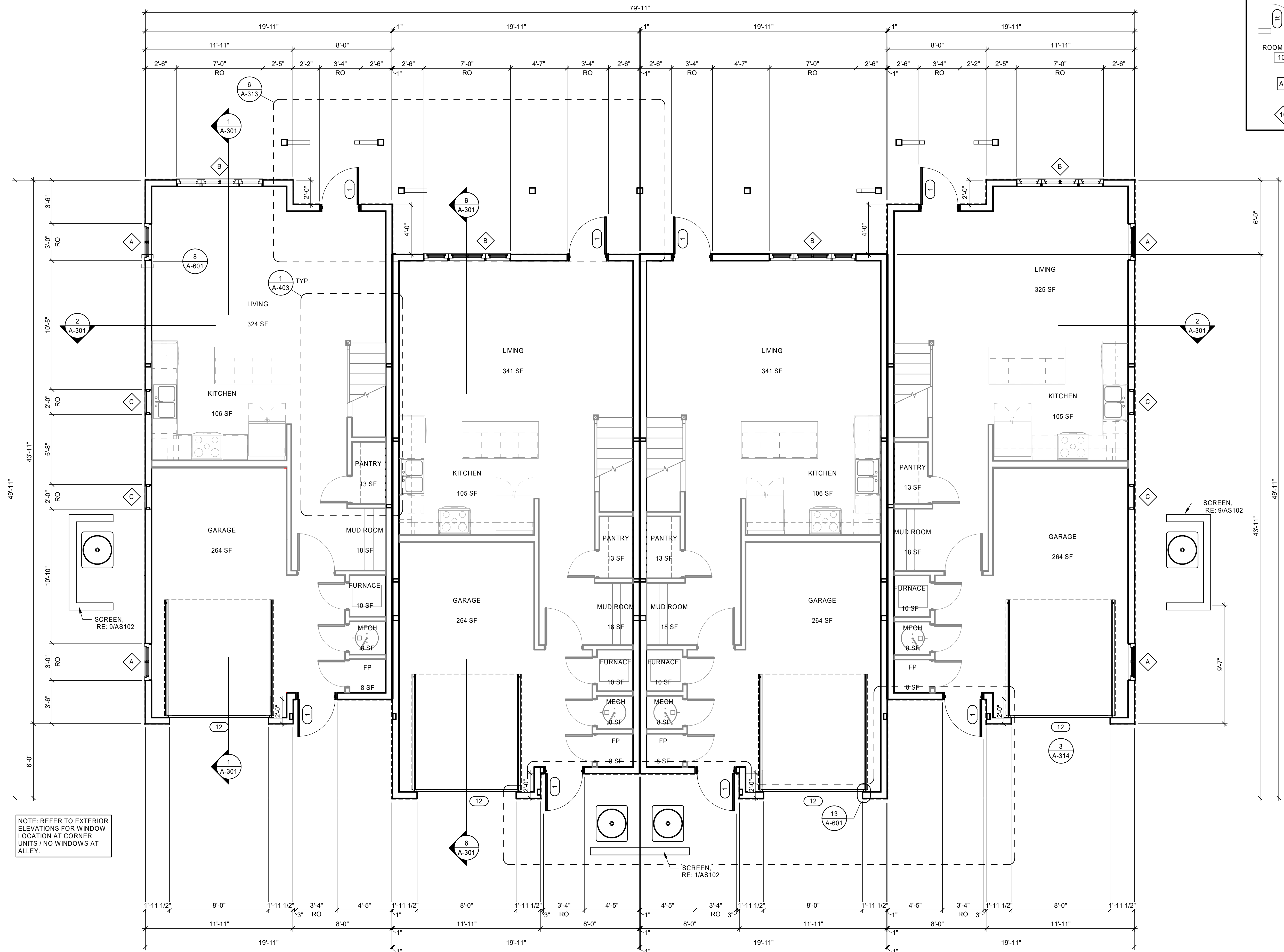
SHEET NAME  
BLDG A4 - FIRST FLOOR PLAN

SHEET NUMBER

**A-101**

**FLOOR PLAN LEGEND**

- FACE OF EXTERIOR FINISH  
EXTERIOR WALLS
- DOOR TYPE INDICATOR
- ROOM NAME  
101 ROOM IDENTIFIER
- A3 WALL TYPE INDICATOR
- 10 WINDOW TYPE INDICATOR

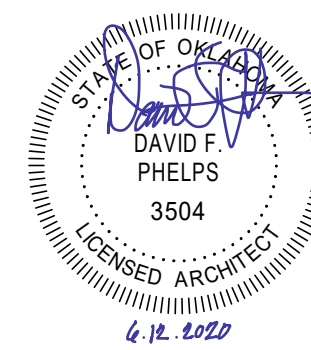


NOTE: REFER TO EXTERIOR ELEVATIONS FOR WINDOW LOCATION AT CORNER UNITS / NO WINDOWS AT ALLEY.

**1 BLDG A4 - FIRST FLOOR PLAN**  
1/4" = 1'-0"

PHASE 1 AND PHASE 2

Printed: 01/20/2024 10:12:24 AM  
C:\Users\whitner\Documents\Revit\Tulsa Whittier\Images\_Arch\_2018\_Whittier.rvt

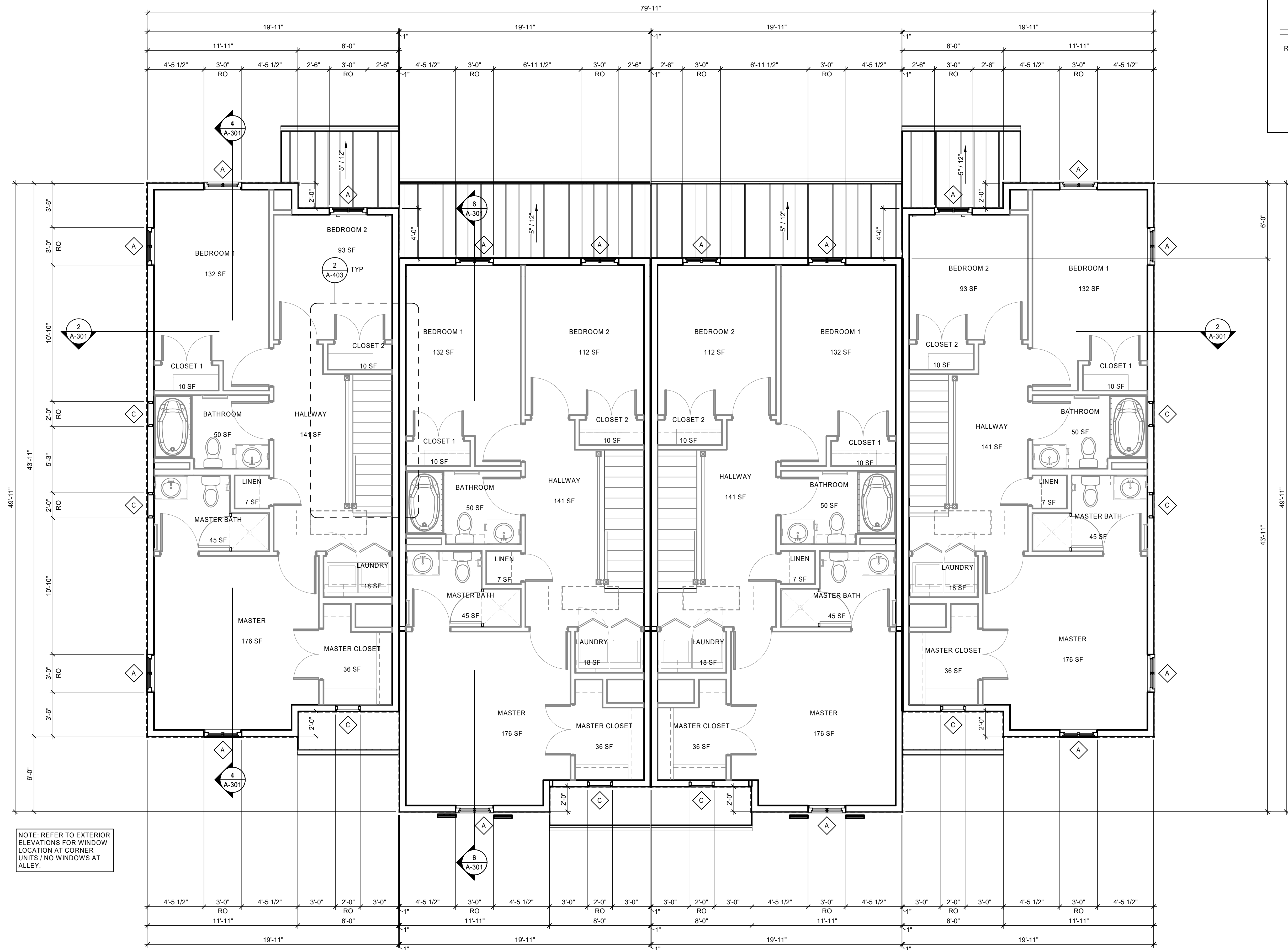


DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

**STIPULATION FOR REUSE**  
THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**FLOOR PLAN LEGEND**

- FACE OF EXTERIOR FINISH  
EXTERIOR WALLS
- DOOR TYPE INDICATOR
- ROOM NAME  
101 ROOM IDENTIFIER
- A3 WALL TYPE INDICATOR
- 10 WINDOW TYPE INDICATOR



NOTE: REFER TO EXTERIOR ELEVATIONS FOR WINDOW LOCATION AT CORNER UNITS / NO WINDOWS AT ALLEY.

**1 BLDG A4 - SECOND FLOOR PLAN**  
1/4" = 1'-0"

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1



ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: JGF

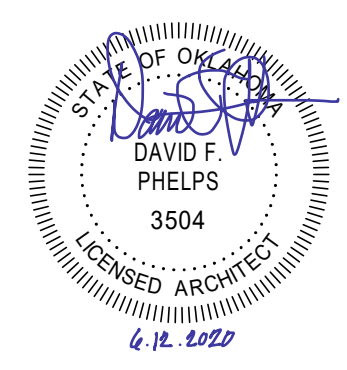
SHEET NAME  
BLDG A4 - SECOND FLOOR PLAN

SHEET NUMBER  
**A-102**

Printed: 01/20/2020 10:12:27 AM  
C:\Users\whitner\Documents\Revit\Tulsa Whittier\dwg\A4\_2018\_Whittier.rvt

**ROOF LEGEND**

-  ASPHALT SHINGLES, COLOR RUSTIC BLACK (HERITAGE SERIES/TAMKO)
-  STANDING SEAM METAL ROOF, COLOR CITYSCAPE (BERRIDGE)



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

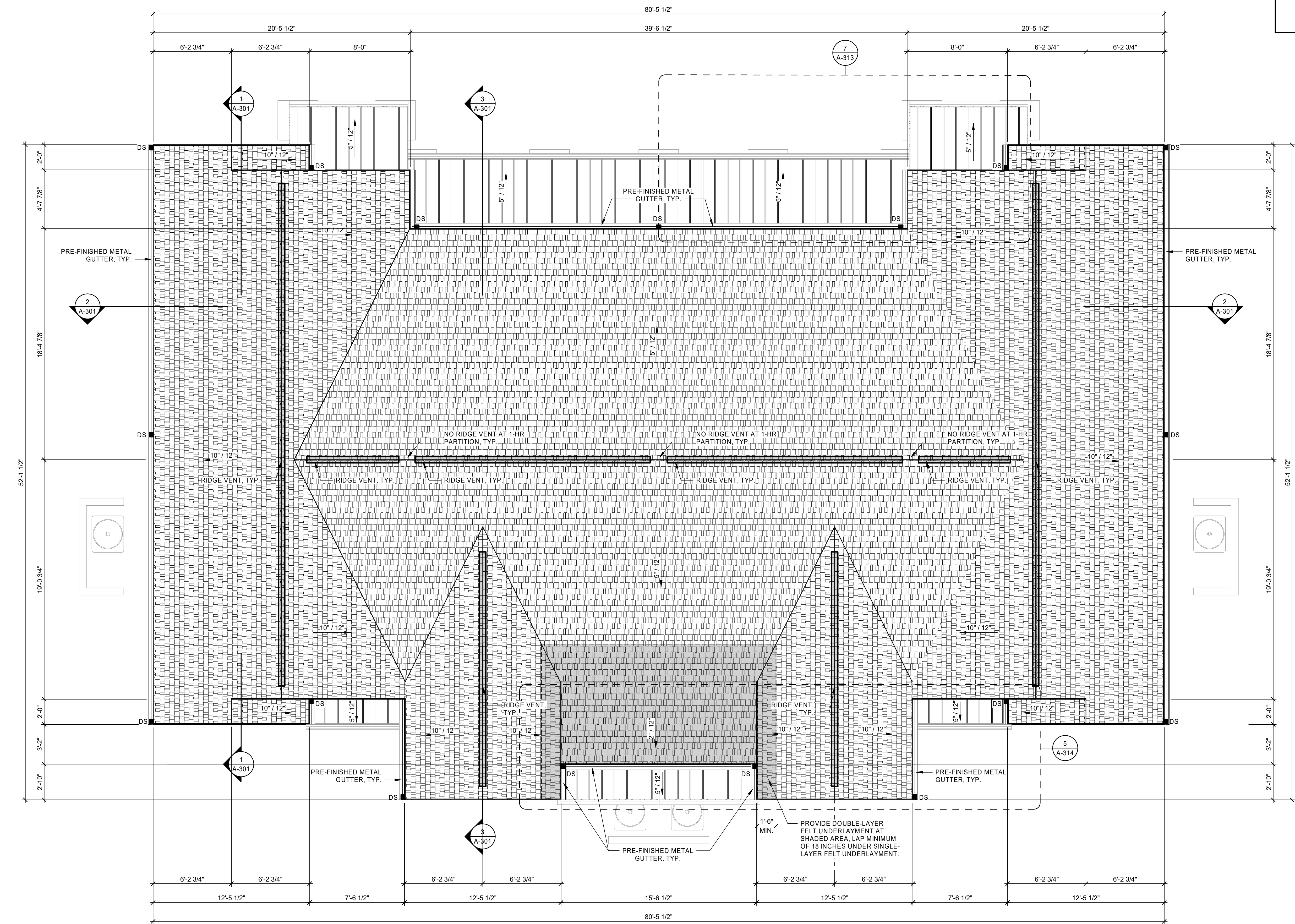
**ISSUES / REVISIONS**

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: JGF

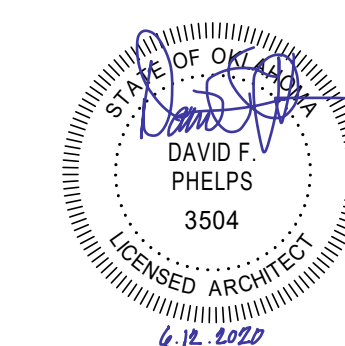
SHEET NAME  
**BLDG A4 - ROOF PLAN**

SHEET NUMBER  
**A-103**



**1 BLDG A4 - ROOF PLAN**  
1/4" = 1'-0"

PHASE 1 AND PHASE 2



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**REFLECTED CEILING PLAN LEGEND**

- NEW GYPSUM CEILING
- MATERIAL CEILING INDICATOR HEIGHT
- RECESSED CAN LIGHTS; RE: ELEC
- PENDANT LIGHTS; RE: ELEC
- SURFACE MOUNT LIGHT; RE: ELEC
- CEILING FAN; RE: ELEC
- DIFFUSER; RE: MECH
- RESTROOM VENT; RE: ELEC & MECH
- VANITY LIGHT; RE: ELEC

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

**ISSUES / REVISIONS**

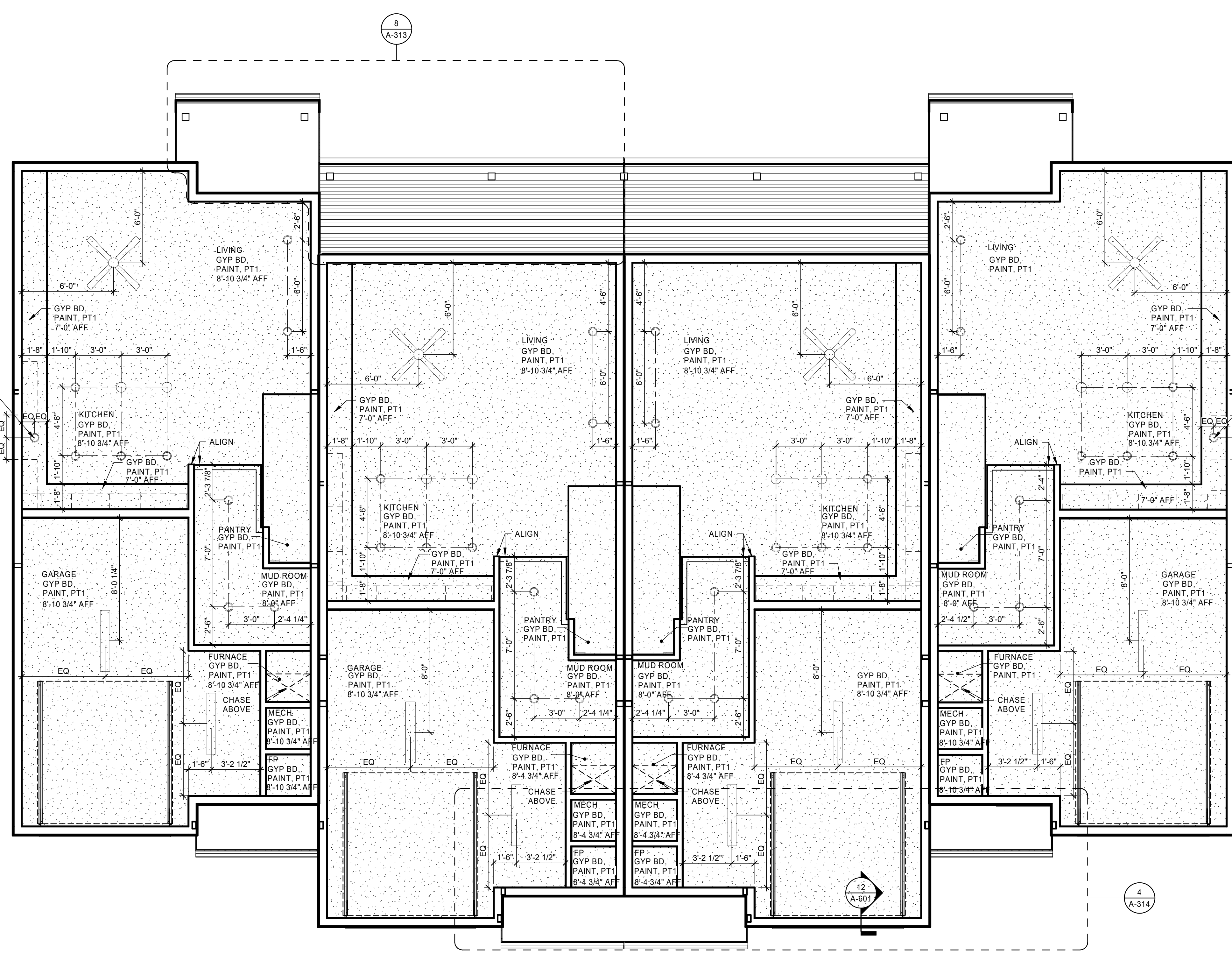
NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: JGF

SHEET NAME  
BLDG A4 - FIRST FLOOR  
REFLECTED CEILING PLAN

SHEET NUMBER  
**A-104**

PHASE 1 AND PHASE 2

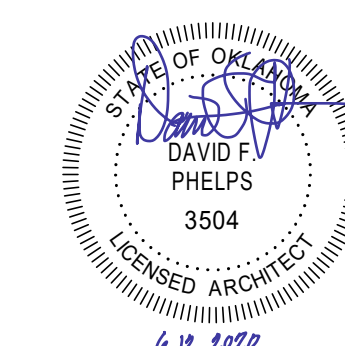


CAN LIGHT ONLY AT WINDOW CONDITION. REFER TO EXTERIOR ELEVATIONS FOR WINDOW LOCATIONS.

CAN LIGHT ONLY AT WINDOW CONDITION. REFER TO EXTERIOR ELEVATIONS FOR WINDOW LOCATIONS.

**1 BLDG A4 - FIRST FLOOR REFLECTED CEILING PLAN**  
1/4" = 1'-0"

Printed: 01/20/2020 10:12:33 AM  
C:\Users\whitner\Documents\Revit\Use Whittier\Bldg\_A4\_2018\_Whittier.rvt



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

### REFLECTED CEILING PLAN LEGEND

NEW GYPSUM CEILING

ACT1  
8'-0" AFF

MATERIAL  
CEILING INDICATOR  
HEIGHT

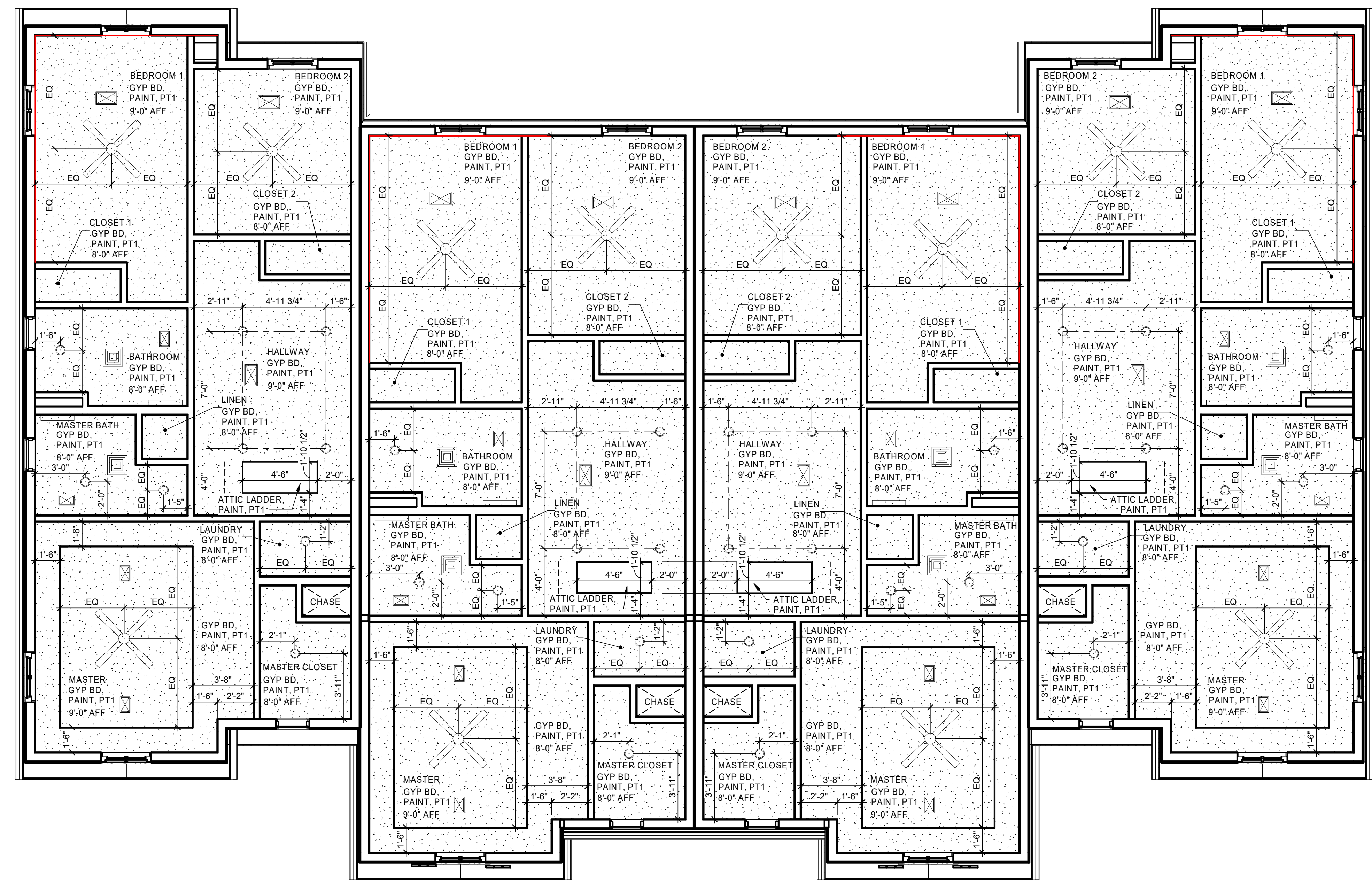
ROOM NAME    ROOM IDENTIFIER

- RECESSED CAN LIGHTS; RE: ELEC
- PENDANT LIGHTS; RE: ELEC
- ▭ SURFACE MOUNT LIGHT; RE: ELEC
- ✳ CEILING FAN; RE: ELEC
- ⊠ DIFFUSER; RE: MECH
- ⊞ RESTROOM VENT; RE: ELEC & MECH
- ▬ VANITY LIGHT; RE: ELEC

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110



ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: JGF

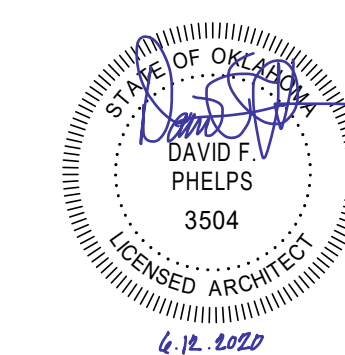
SHEET NAME  
BLDG A4 - SECOND FLOOR  
REFLECTED CEILING PLAN

SHEET NUMBER  
**A-105**

**1 BLDG A4 - SECOND FLOOR REFLECTED CEILING PLAN**  
1/4" = 1'-0"

PHASE 1 AND PHASE 2

Printed: 01/20/2020 10:12:36 AM  
C:\Users\whitner\Documents\Revit\Tulsa Whittier\Bldg\_A4\_Phase\_2010\_Whittier.rvt



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

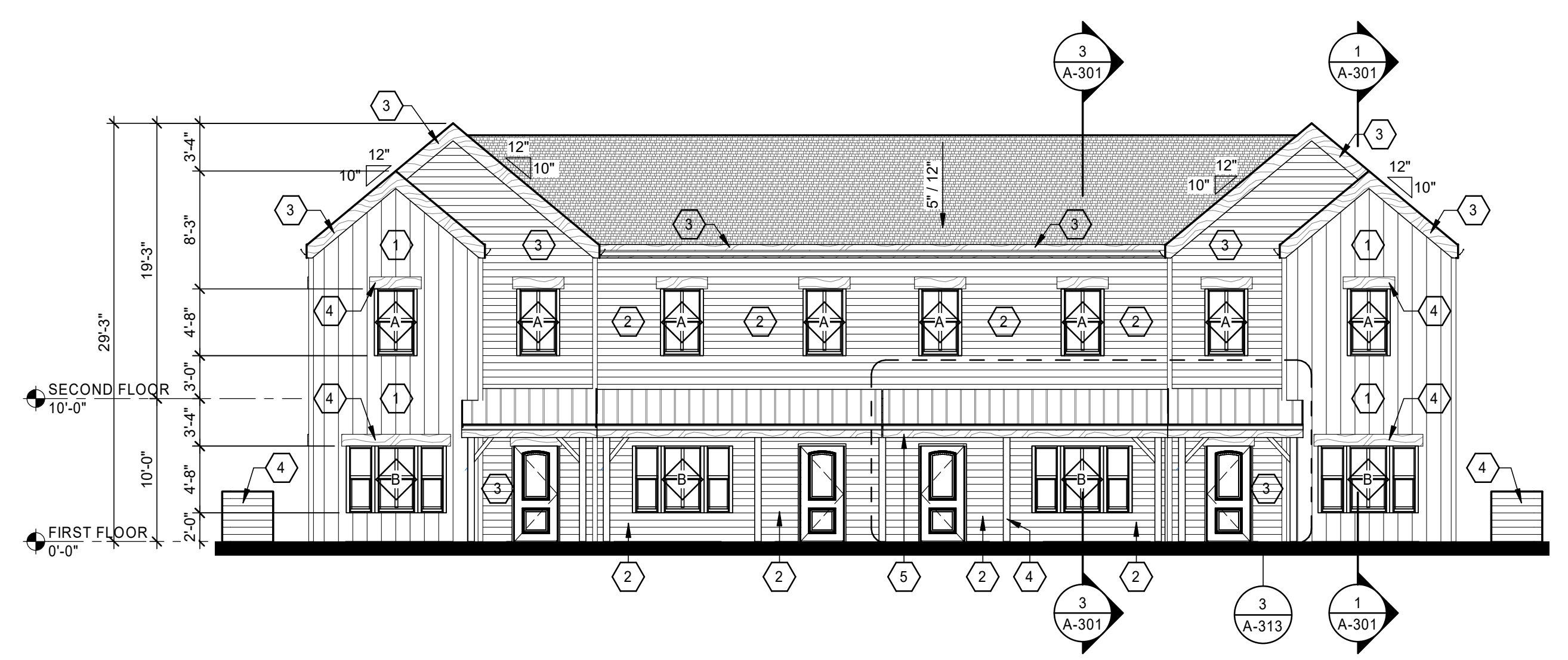
**EXTERIOR FINISH LEGEND**

	CLAPBOARD SIDING
	HARDBOARD VERTICAL SIDING
	STANDING SEAM METAL ROOF
	WOOD

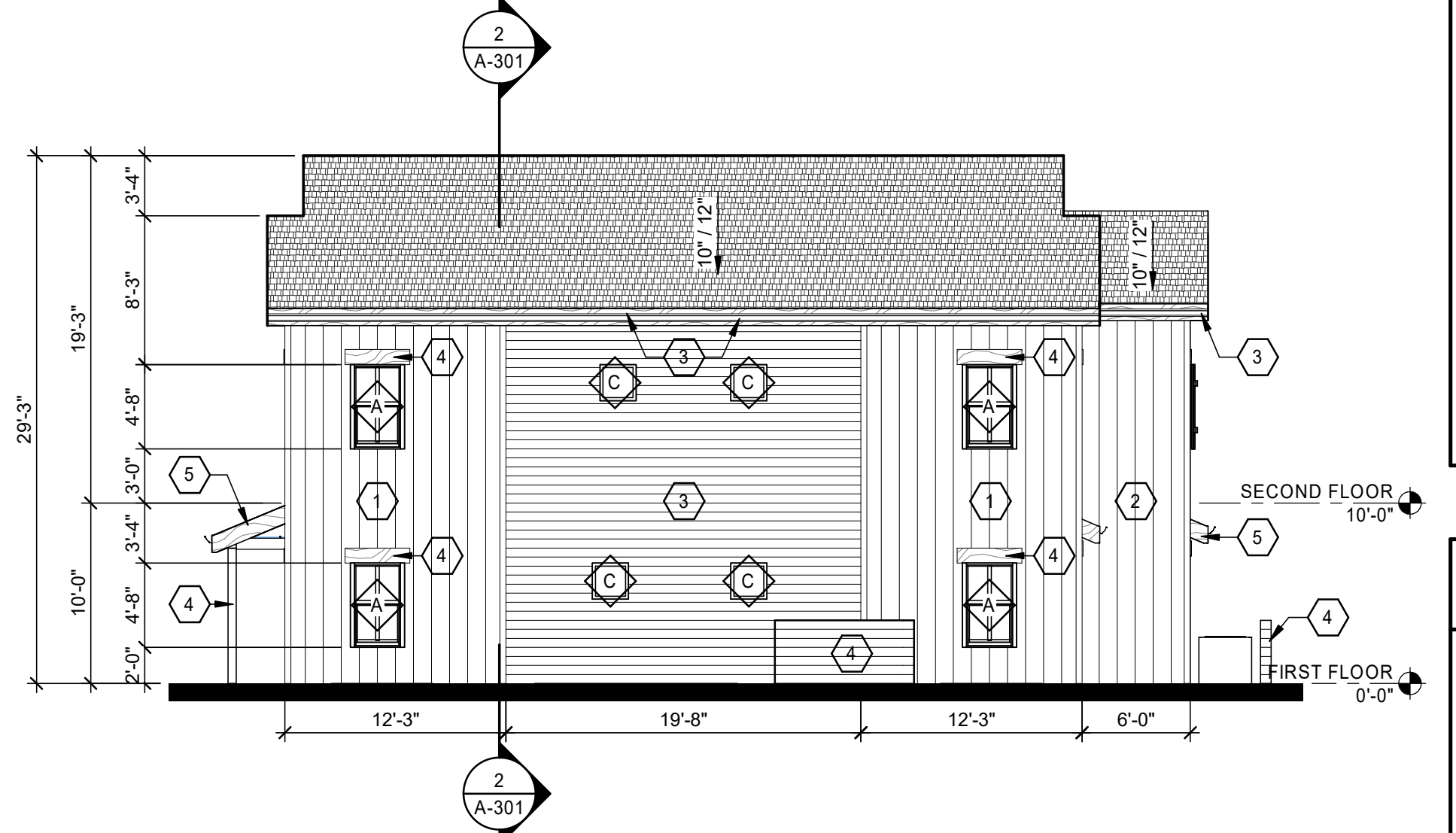
**EXTERIOR FINISHES**

1	SW 6523   COLOR: OLYMPUS WHITE
2	SW 7659   COLOR: GRIS
3	SW 7674   COLOR: PEPPERCORN
4	CEDAR WOOD TO MATCH: WALNUT HEIGHTS 7965K-12 SOFTGRAIN FINISH BY WILSONART
5	COLOR TO MATCH STANDING SEAM METAL ROOF, CITYSCAPE (BERRIDGE)
6	INSULATED ACCESS PANEL, COLOR TO MATCH ADJACENT WALL

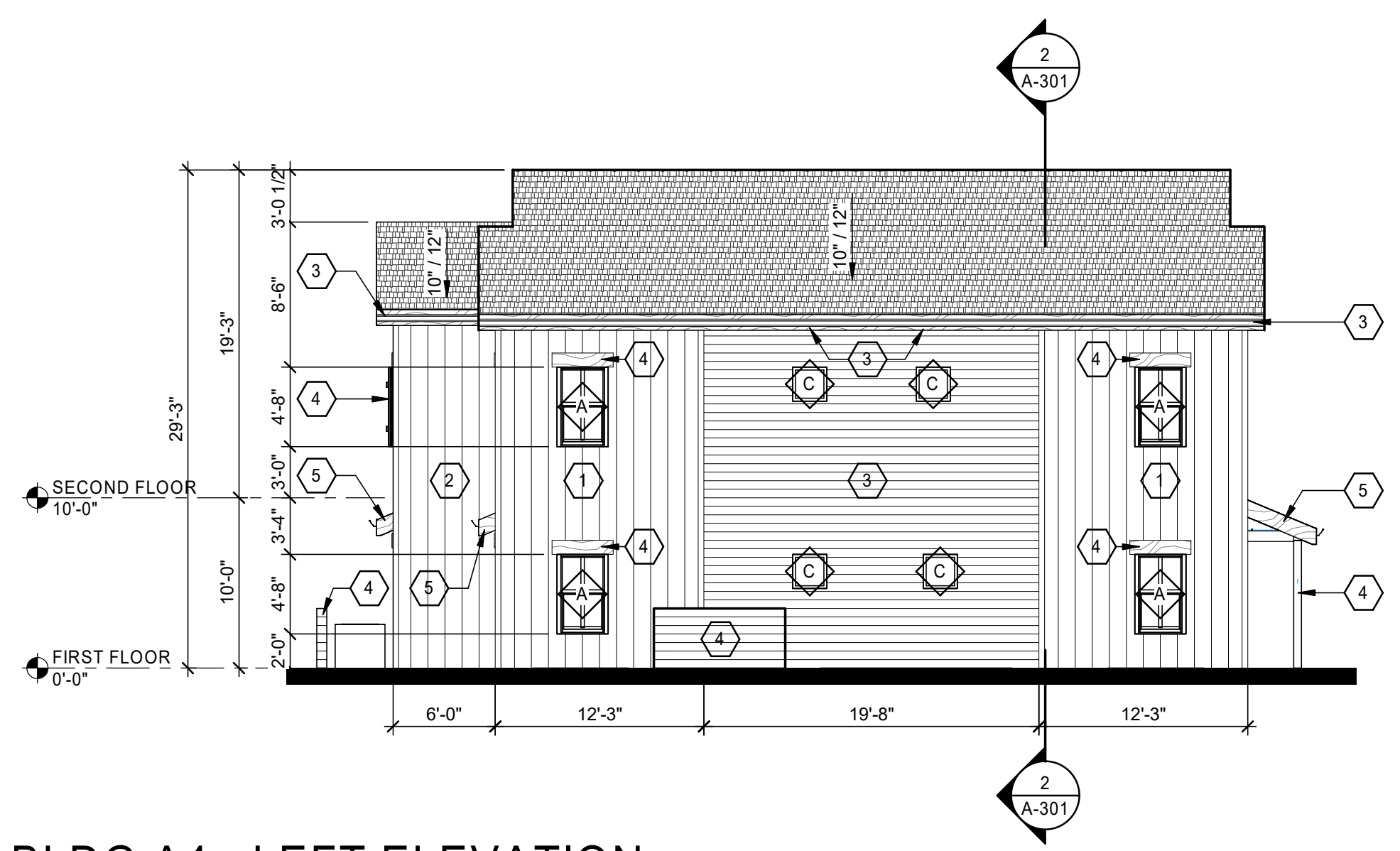
NOTE:  
1- DOWNSPOUTS AT 2ND FLOOR TO MATCH COLOR: SW 7674 - PEPPERCORN.  
2- DOWNSPOUTS AT 1ST FLOOR TO MATCH COLOR: CITYSCAPE (BERRIDGE)



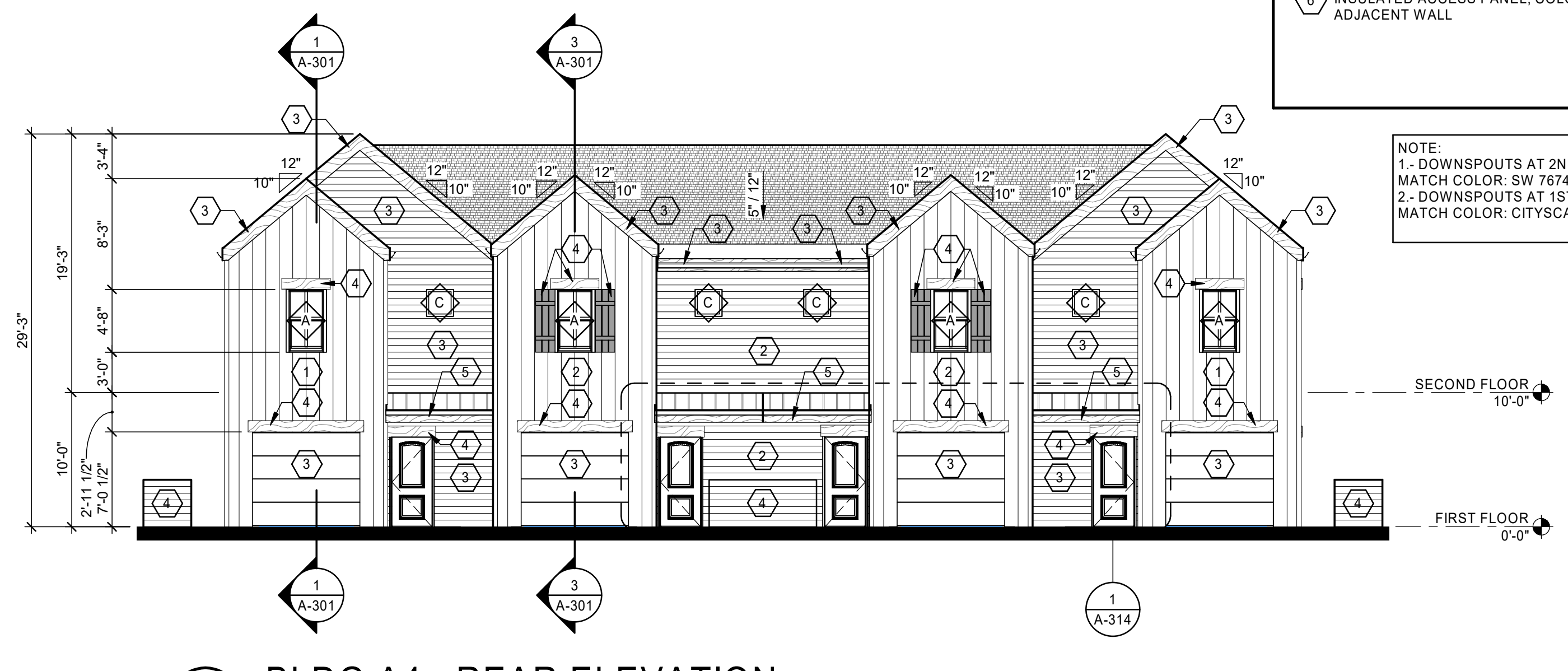
**1 BLDG A4 - FRONT ELEVATION**  
1/8" = 1'-0"



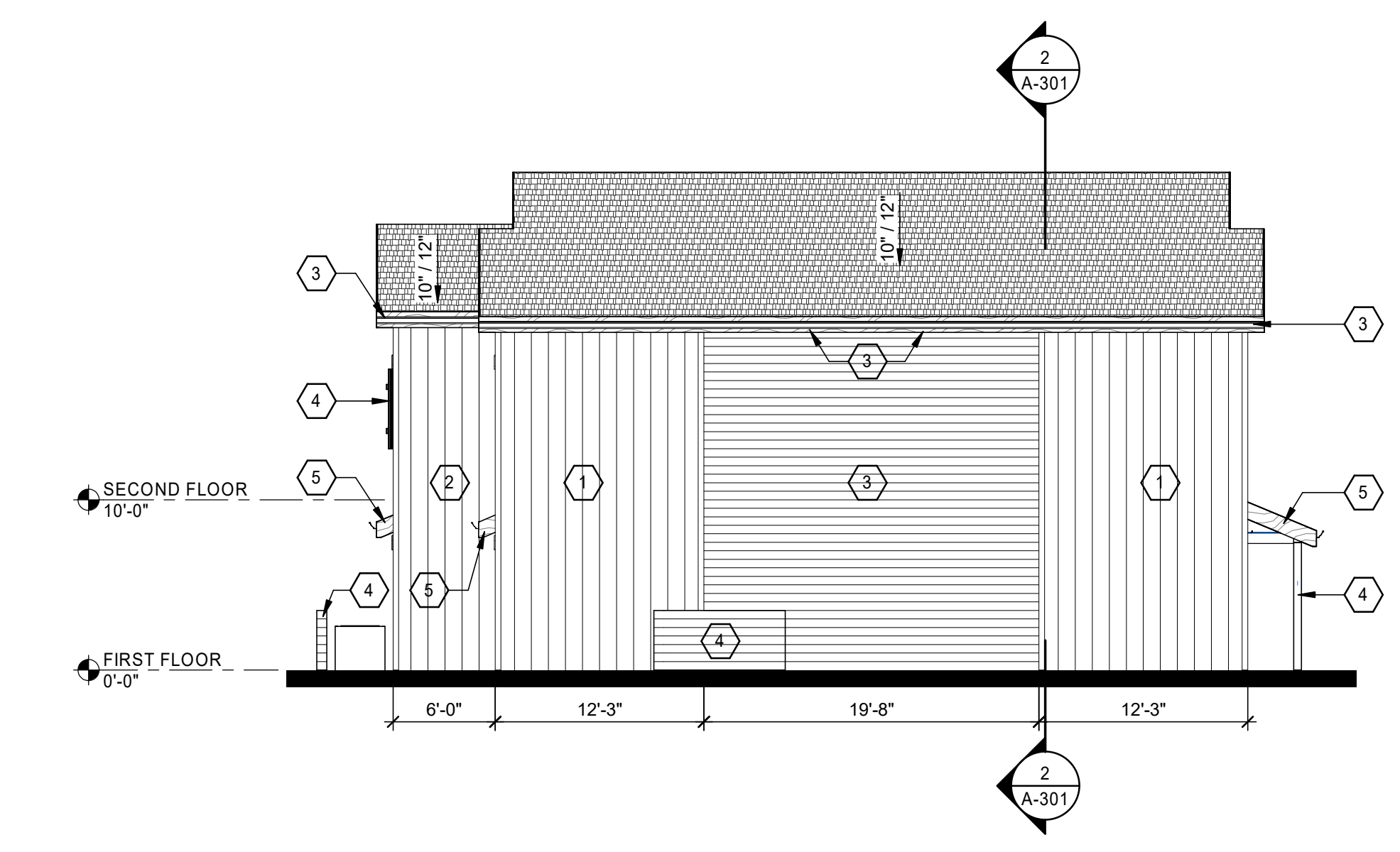
**2 BLDG A4 - RIGHT ELEVATION**  
1/8" = 1'-0"



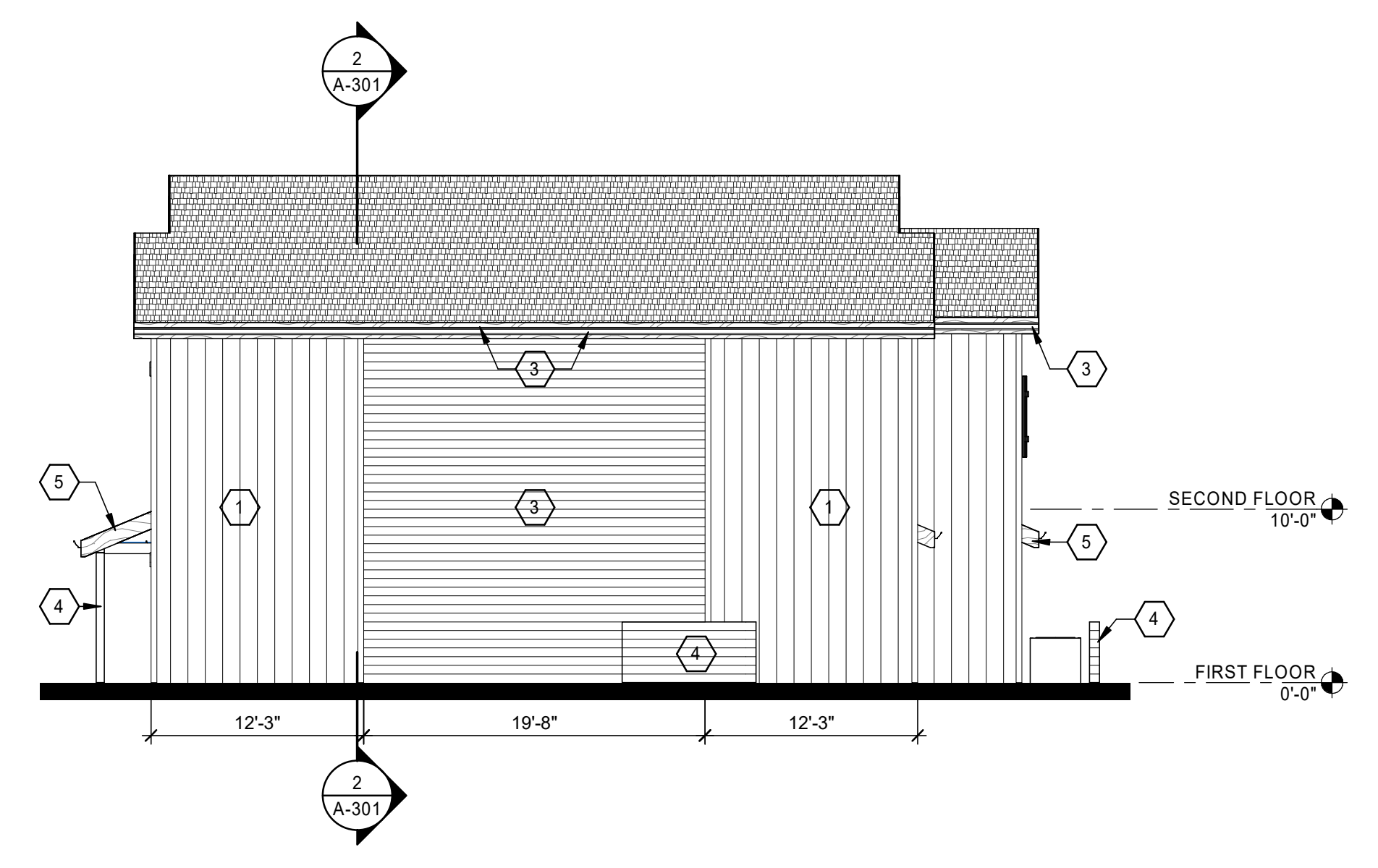
**3 BLDG A4 - LEFT ELEVATION**  
1/8" = 1'-0"



**4 BLDG A4 - REAR ELEVATION**  
1/8" = 1'-0"



**5 BLDG A4 - LEFT ELEVATION @ ALLEY**  
1/8" = 1'-0"



**6 BLDG A4 - RIGHT ELEVATION @ ALLEY**  
1/8" = 1'-0"

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1

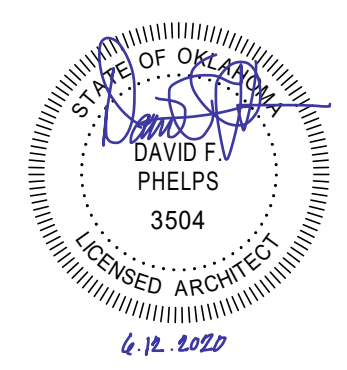
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: JGF

SHEET NAME

BLDG A4 - EXTERIOR ELEVATIONS

SHEET NUMBER

A-201

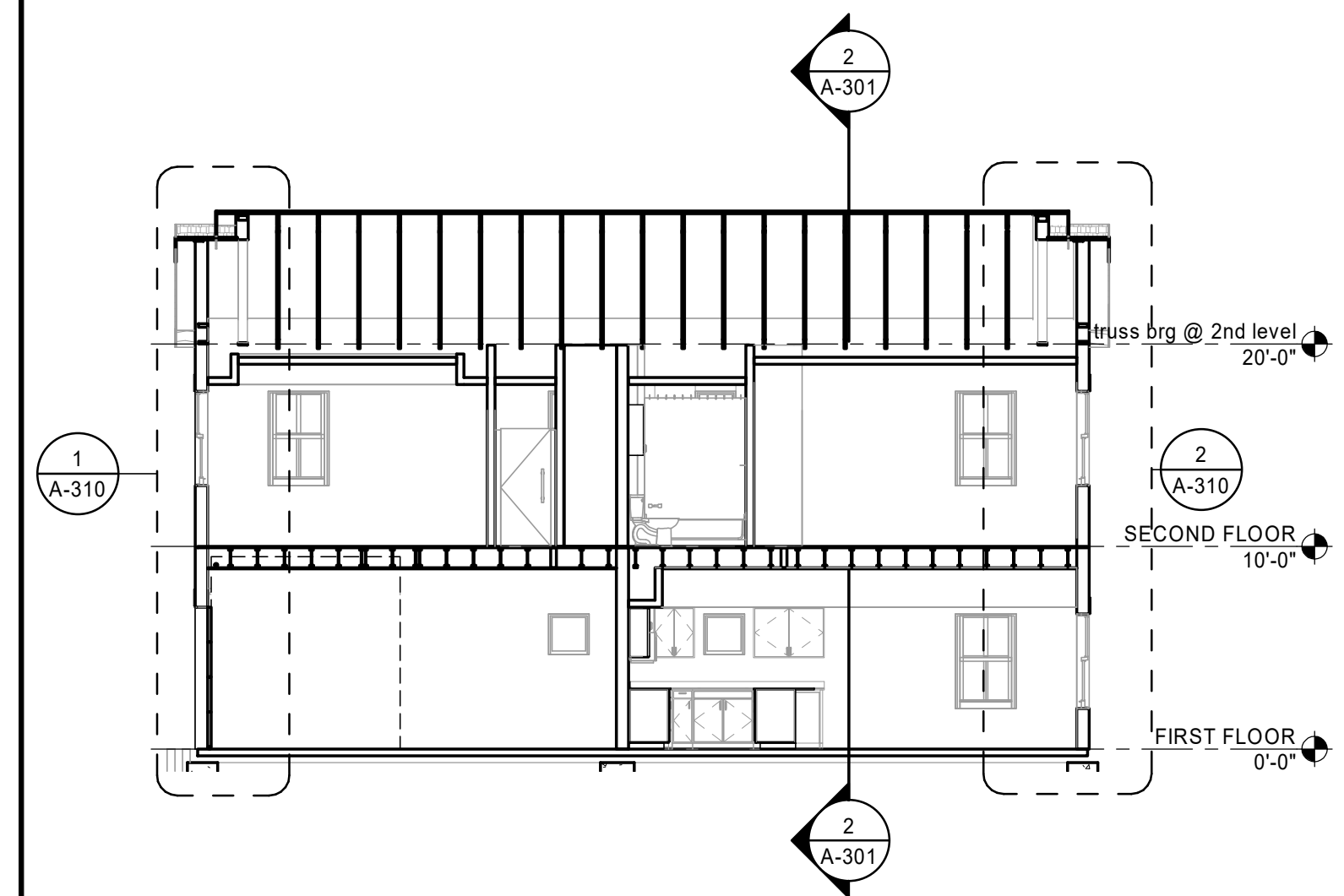


DAVID F. PHELPS, AIA  
 ARCHITECT OF RECORD

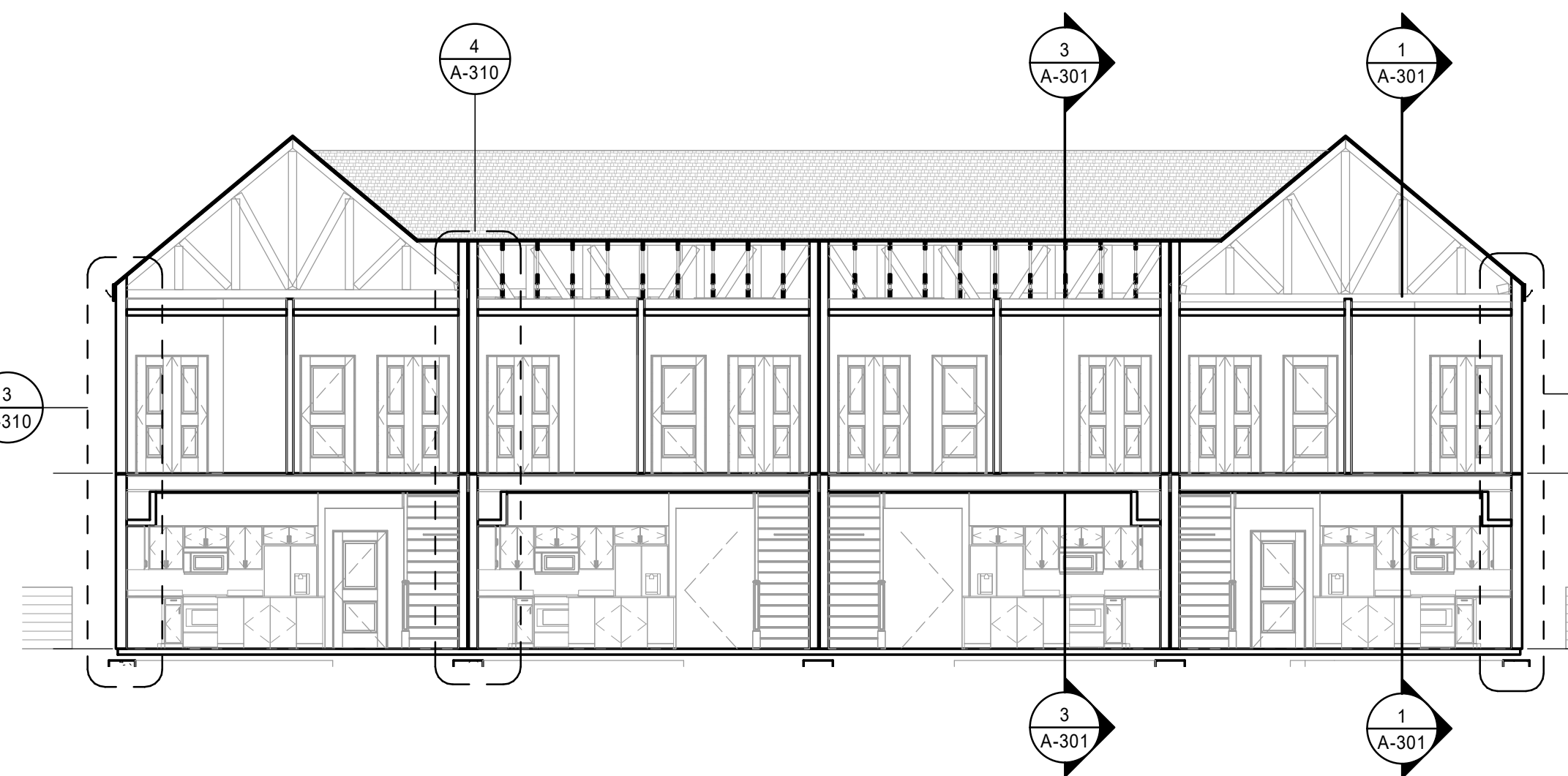
STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

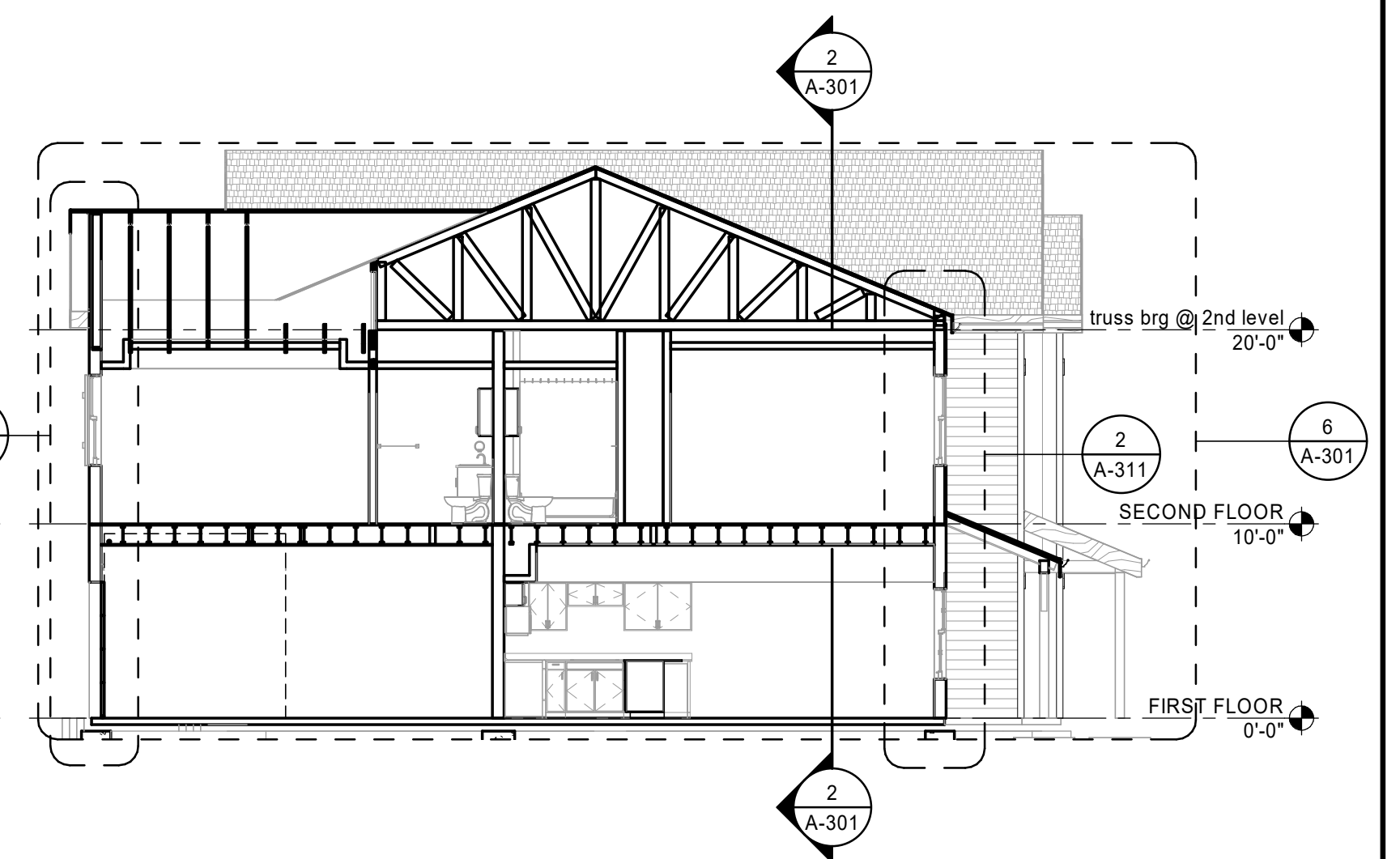
THE WHITTIER - PHASE 1  
 BOOMTOWN DEVELOPMENT COMPANY  
 68 NORTH LEWIS  
 TULSA, OK 74110



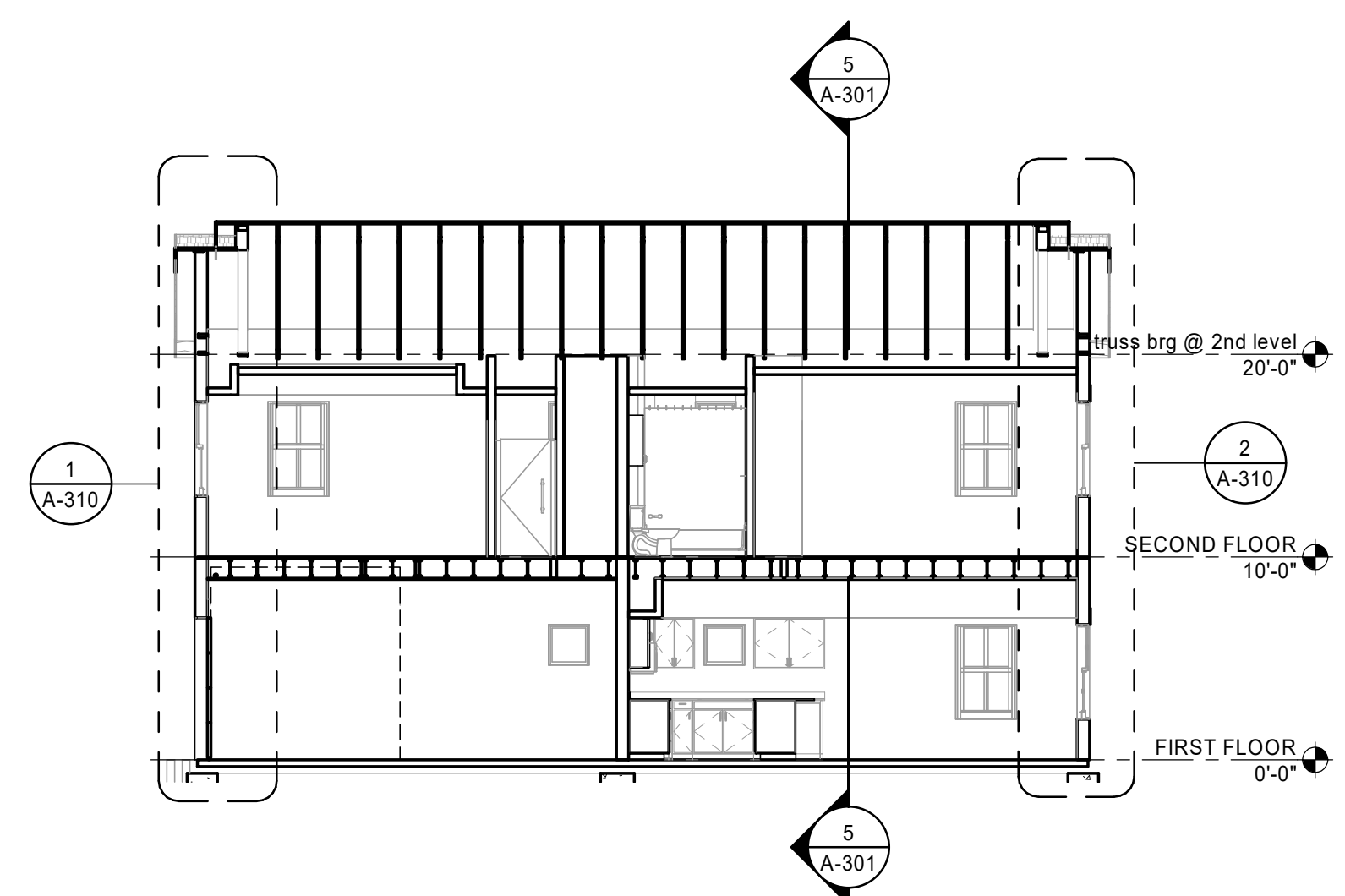
1 A4 - BUILDING SECTION PHASE 1 AND PHASE 2  
 1/8" = 1'-0"



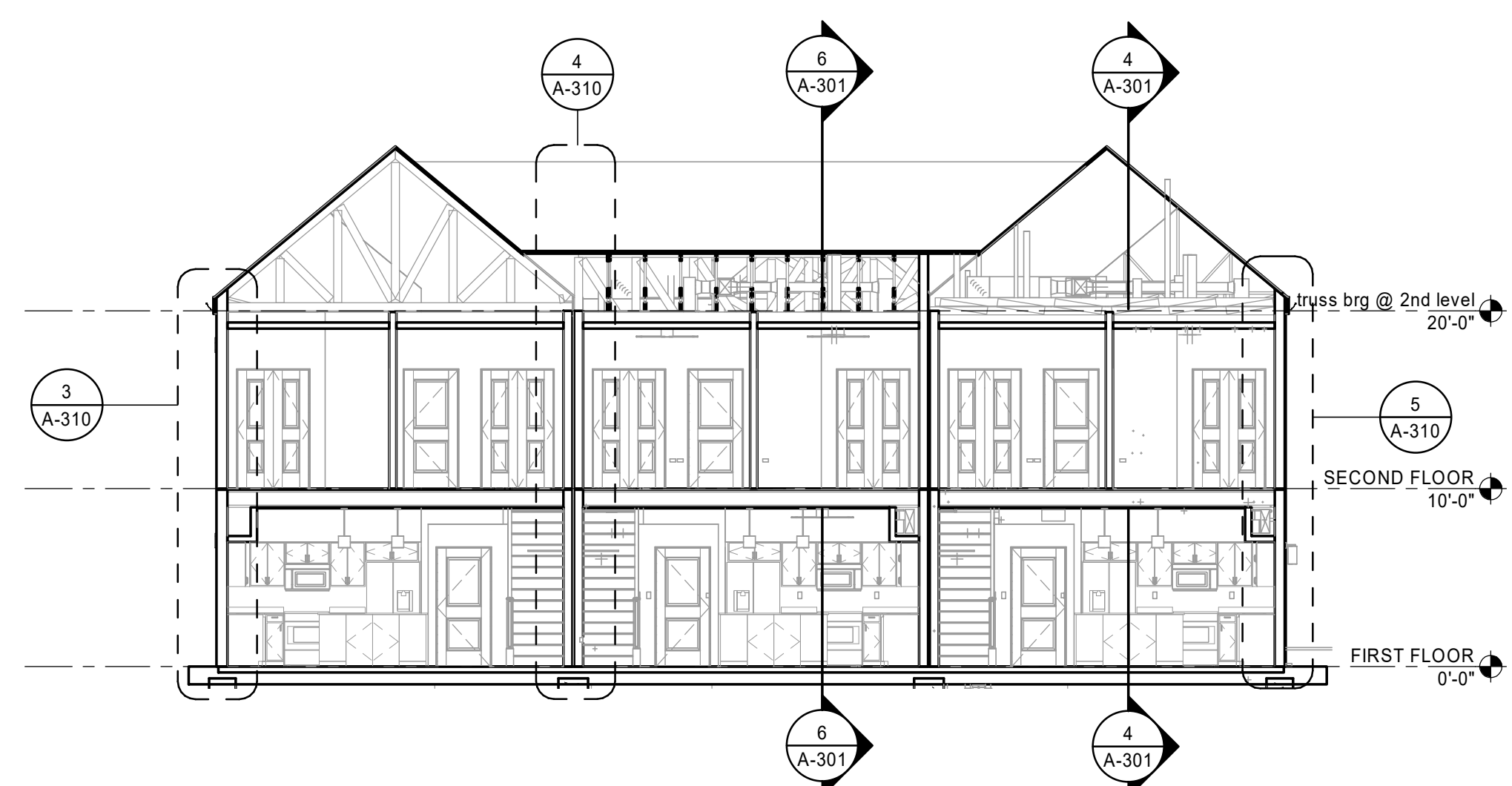
2 A4 - BUILDING SECTION PHASE 1 AND PHASE 2  
 1/8" = 1'-0"



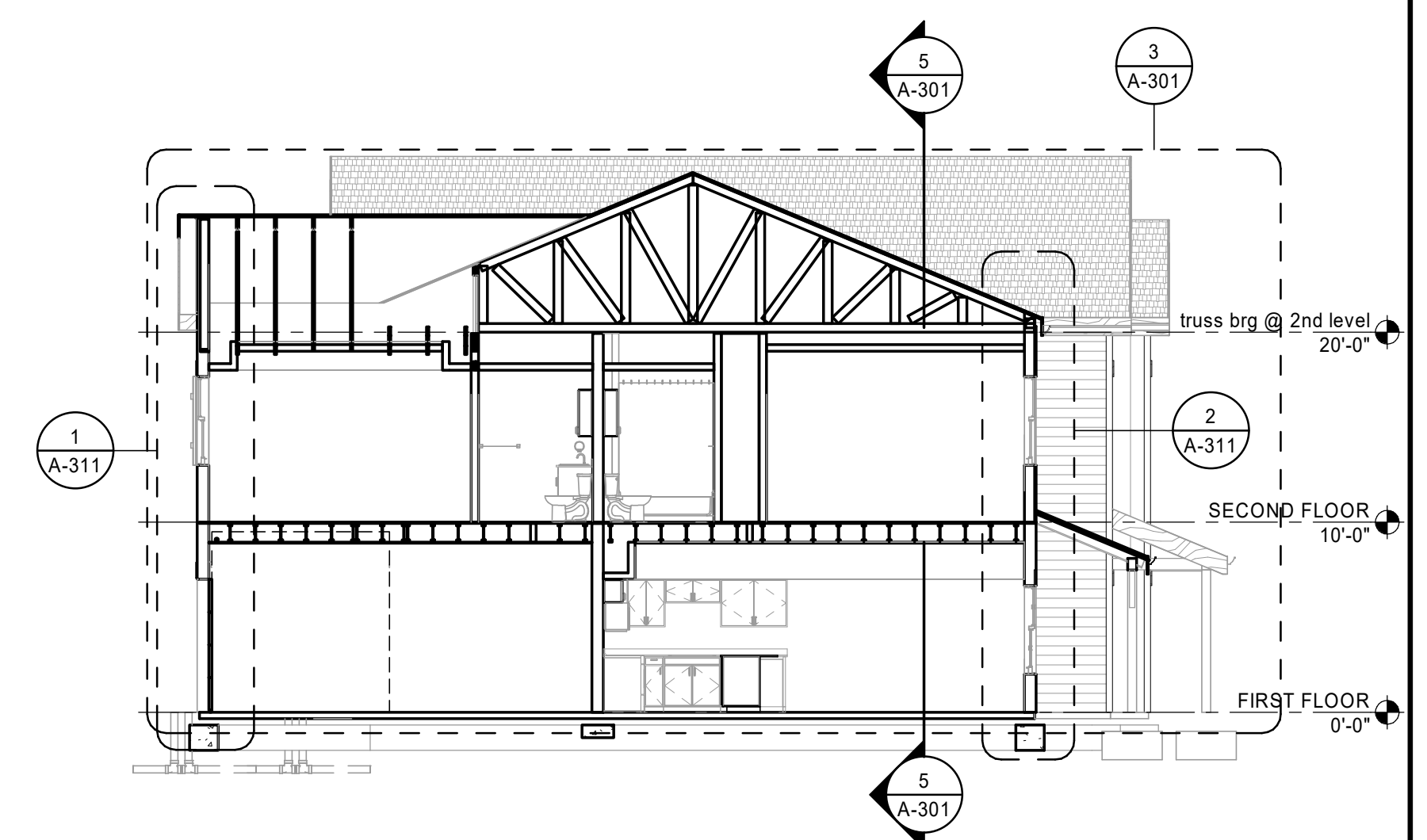
3 A4 - BUILDING SECTION PHASE 1 AND PHASE 2  
 1/8" = 1'-0"



4 A3 - BUILDING SECTION PHASE 2  
 1/8" = 1'-0"



5 A3 - BUILDING SECTION PHASE 2  
 1/8" = 1'-0"



6 A3 - BUILDING SECTION PHASE 2  
 1/8" = 1'-0"

ISSUES / REVISIONS

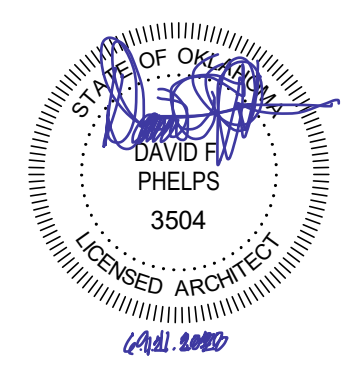
NO.	DATE	DESCRIPTION

ISSUE DATE: 06/12/2020  
 PROJECT NO: P05093.0100  
 CHECKED BY: LFG  
 DRAWN BY: BLG

SHEET NAME  
 BUILDING SECTIONS

SHEET NUMBER  
**A-301**





DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK, CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1
2	09/09/2020	PERMIT COMMENTS

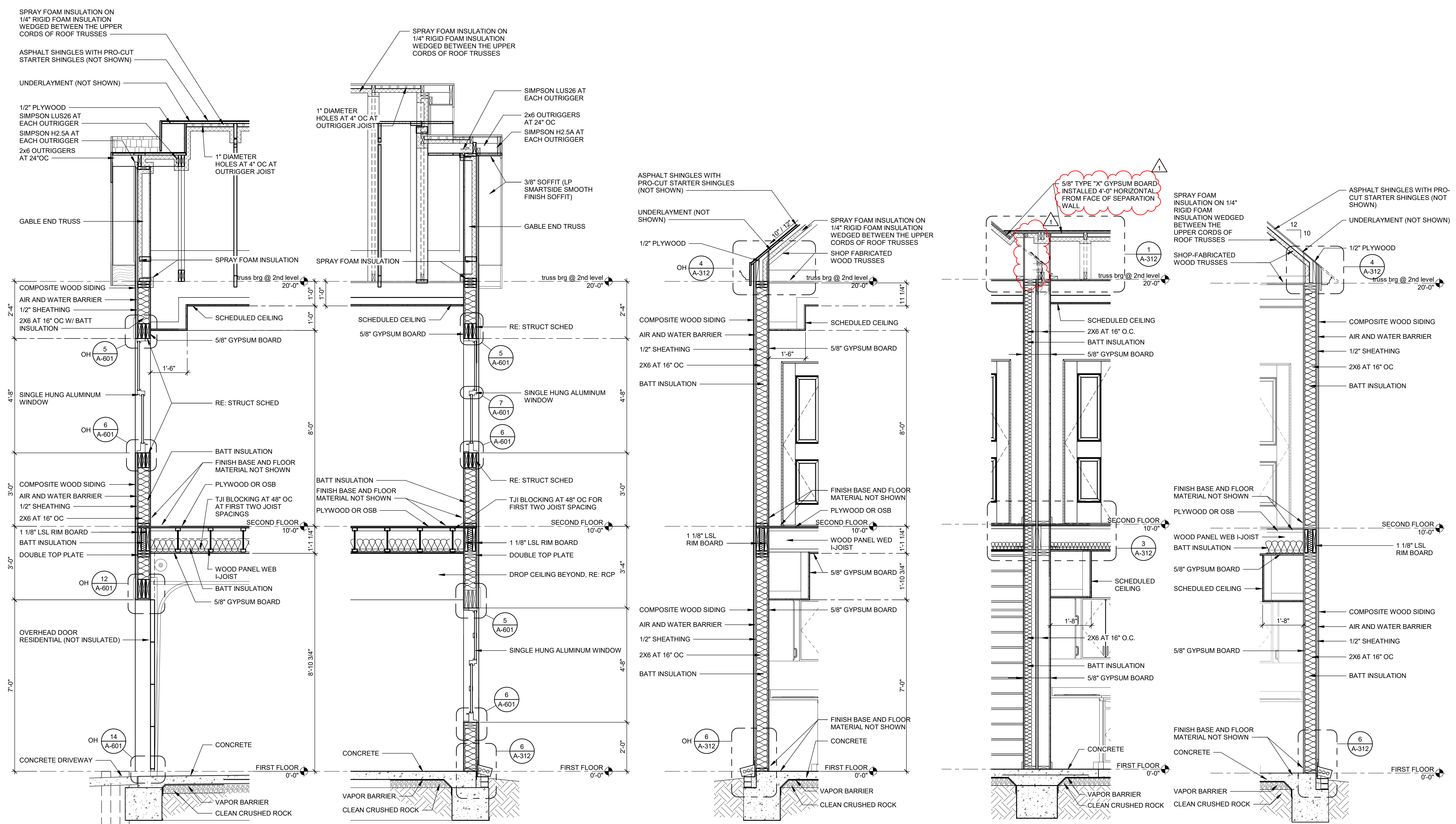
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: BLG

SHEET NAME  
**WALL SECTIONS**

SHEET NUMBER

**A-310**

PHASE 1 AND PHASE 2



**1 WALL SECTION**  
1/2" = 1'-0"

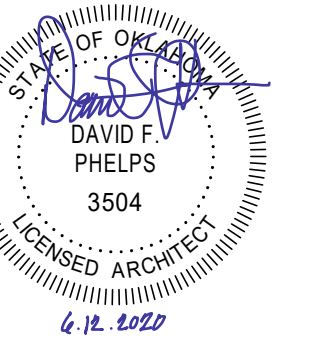
**2 WALL SECTION**  
1/2" = 1'-0"

**3 WALL SECTION**  
1/2" = 1'-0"

**4 WALL SECTION**  
1/2" = 1'-0"

**5 WALL SECTION**  
1/2" = 1'-0"

Printed: 01/02/2025 2:27:33 PM  
 C:\Users\alvaco\Documents\Revit\Tulsa Whittier\HighRez\_Arch\_2018\_wallect.rvt



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK, CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

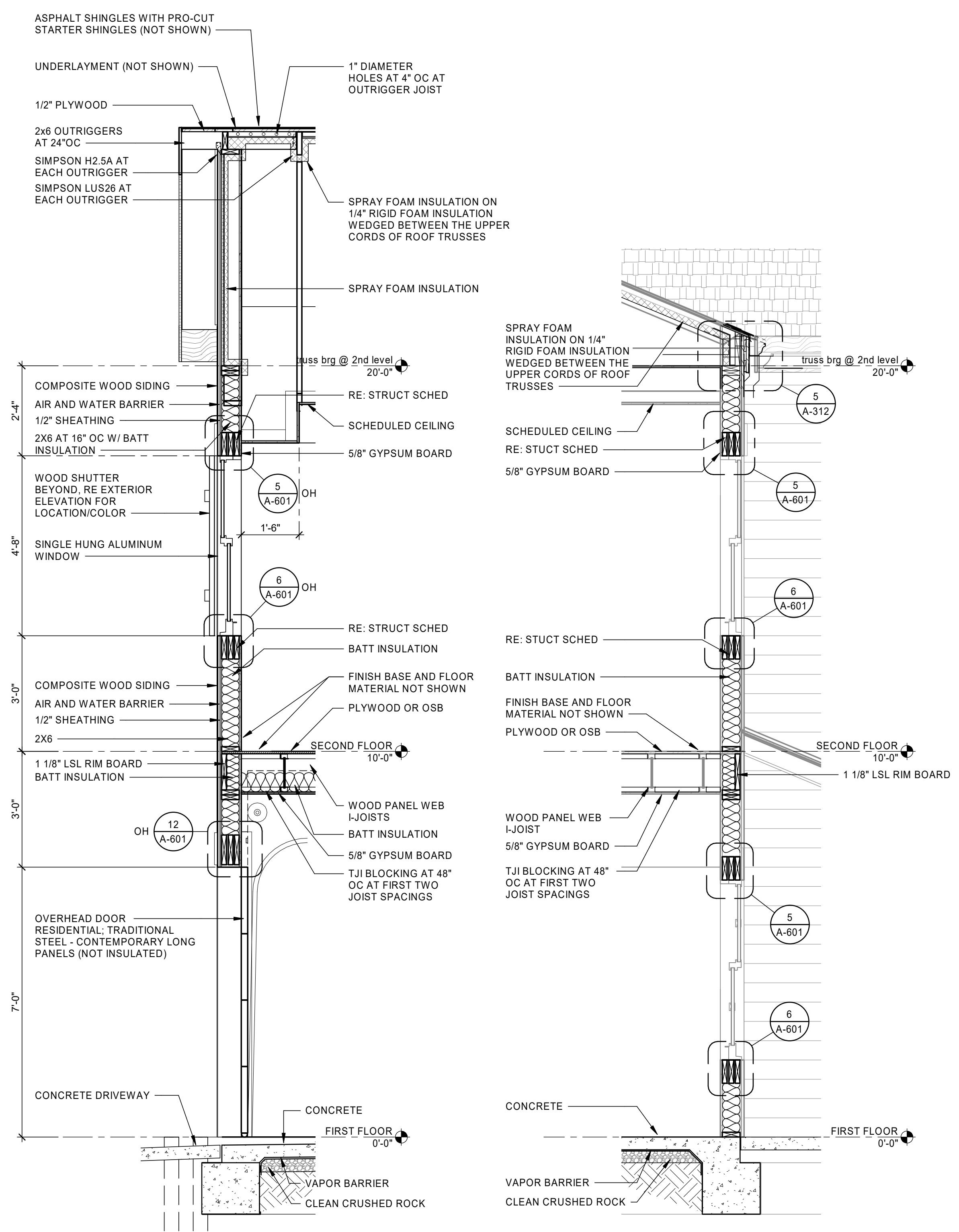
**ISSUES / REVISIONS**

NO.	DATE	DESCRIPTION
	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: BLG

SHEET NAME  
**WALL SECTIONS**

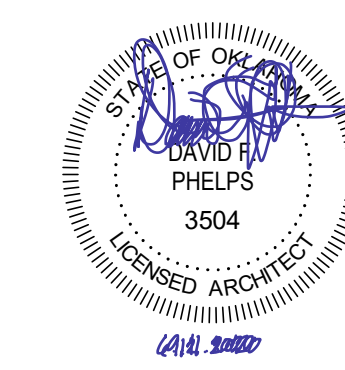
SHEET NUMBER  
**A-311**



**1 WALL SECTION**  
1/2" = 1'-0"

**2 WALL SECTION**  
1/2" = 1'-0"

Printed: 01/20/2020 10:12:58 AM  
C:\Users\whitner\Documents\Revit\Tulsa Whittier\Phase 1\A-311\_Whittier.rvt



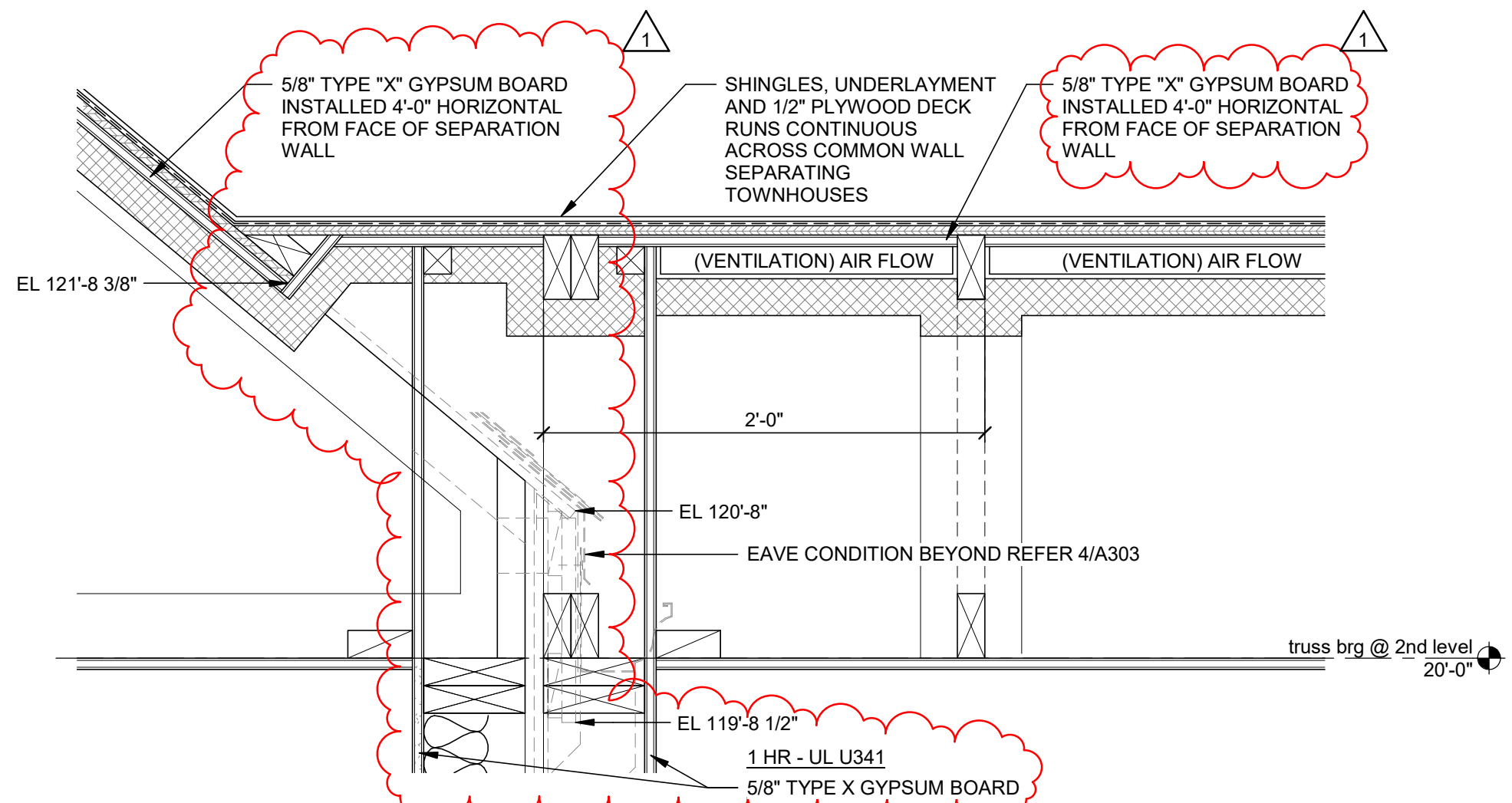
DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

STIPULATION FOR REUSE  
THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

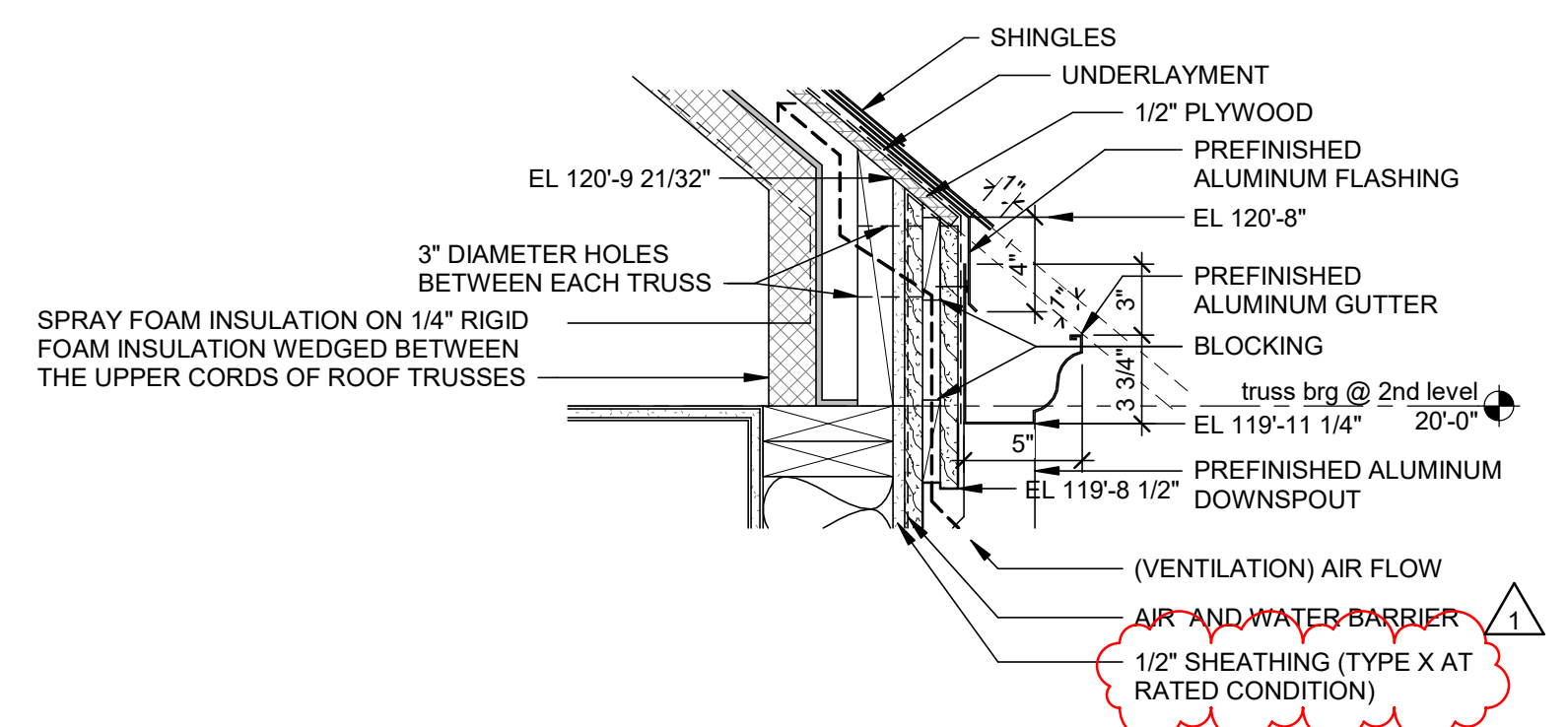
**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

**BRICK LEGEND**

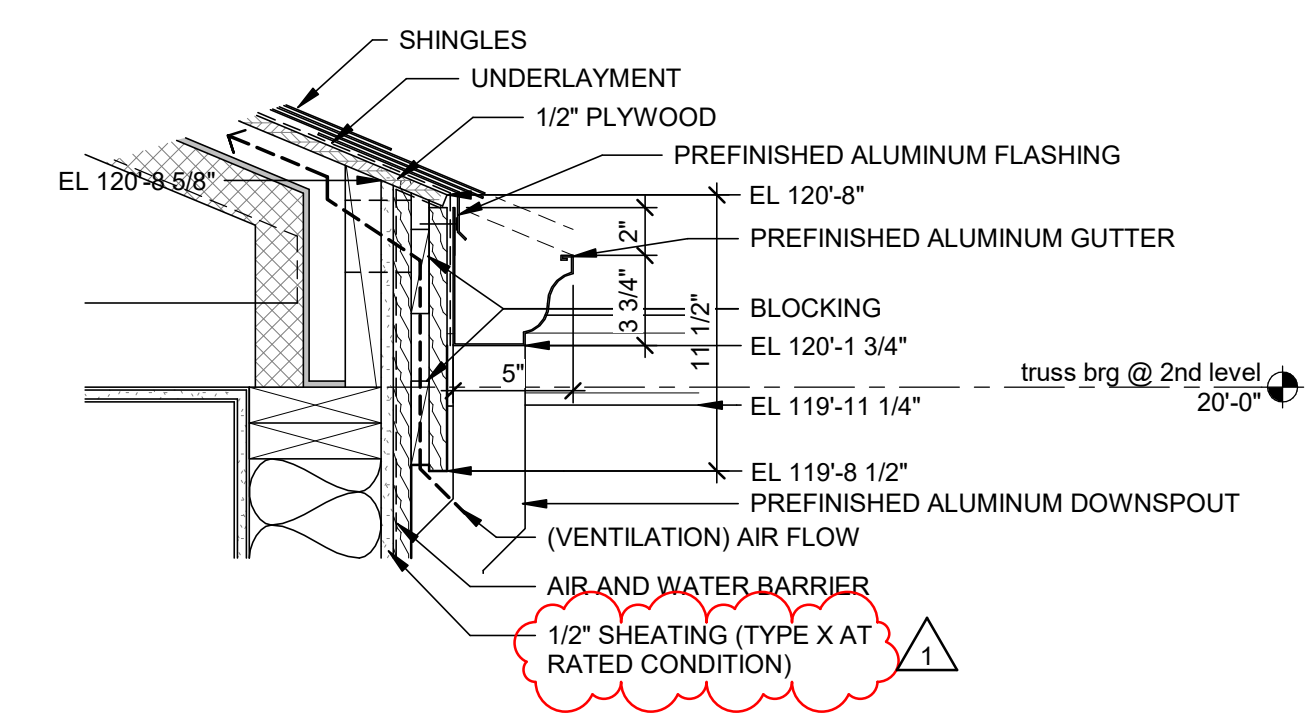
- B1 - ACME MODULAR SIZE, 160 VELOUR, STEELE GRAY 106391.
  - B2 - ACME MODULAR SIZE, 166 VELOUR, MARBLE GRAY 106745.
  - B3 - ACME MODULAR SIZE, 166 SMOOTH, MARBLE GRAY 106753.
- NOTE: PROVIDE MORTAR TYPE S FOR ALL BRICK TYPES



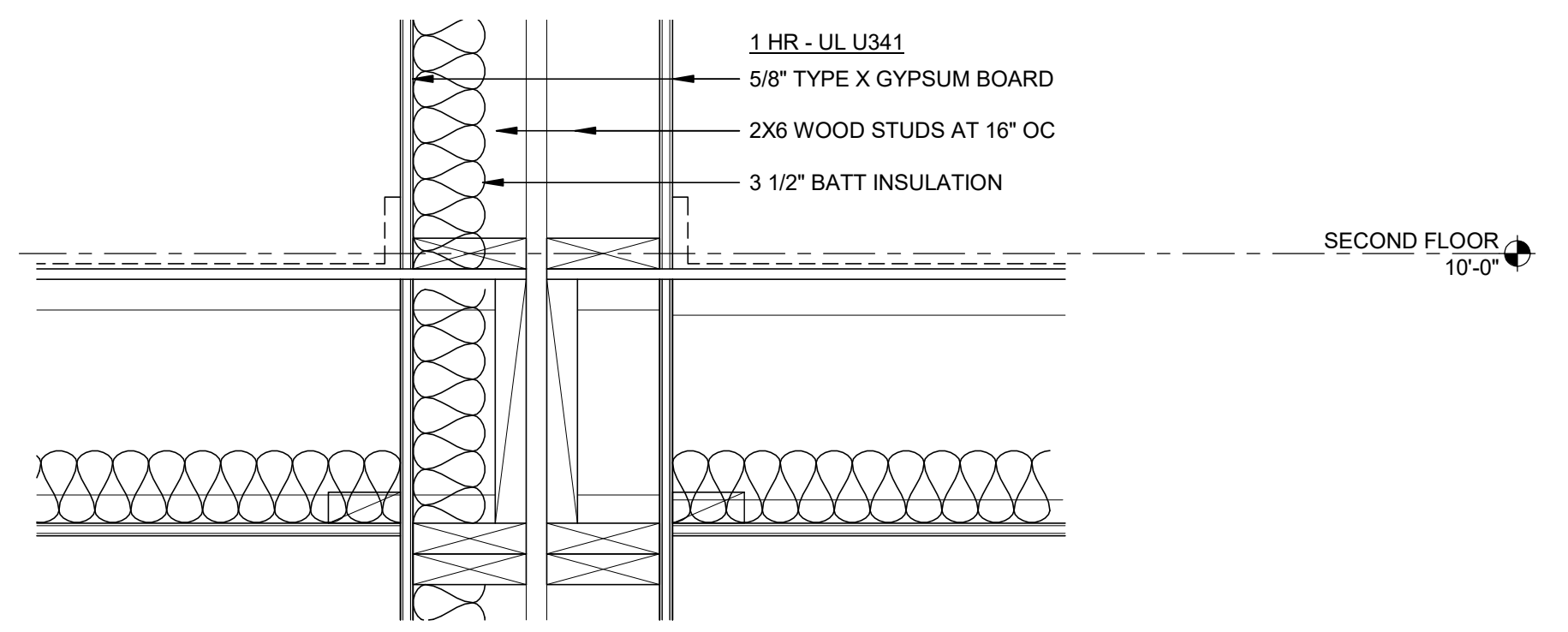
**1 ROOF TO ROOF UNIT SEPARATION WALL** PHASE 1 AND PHASE 2  
1 1/2" = 1'-0"



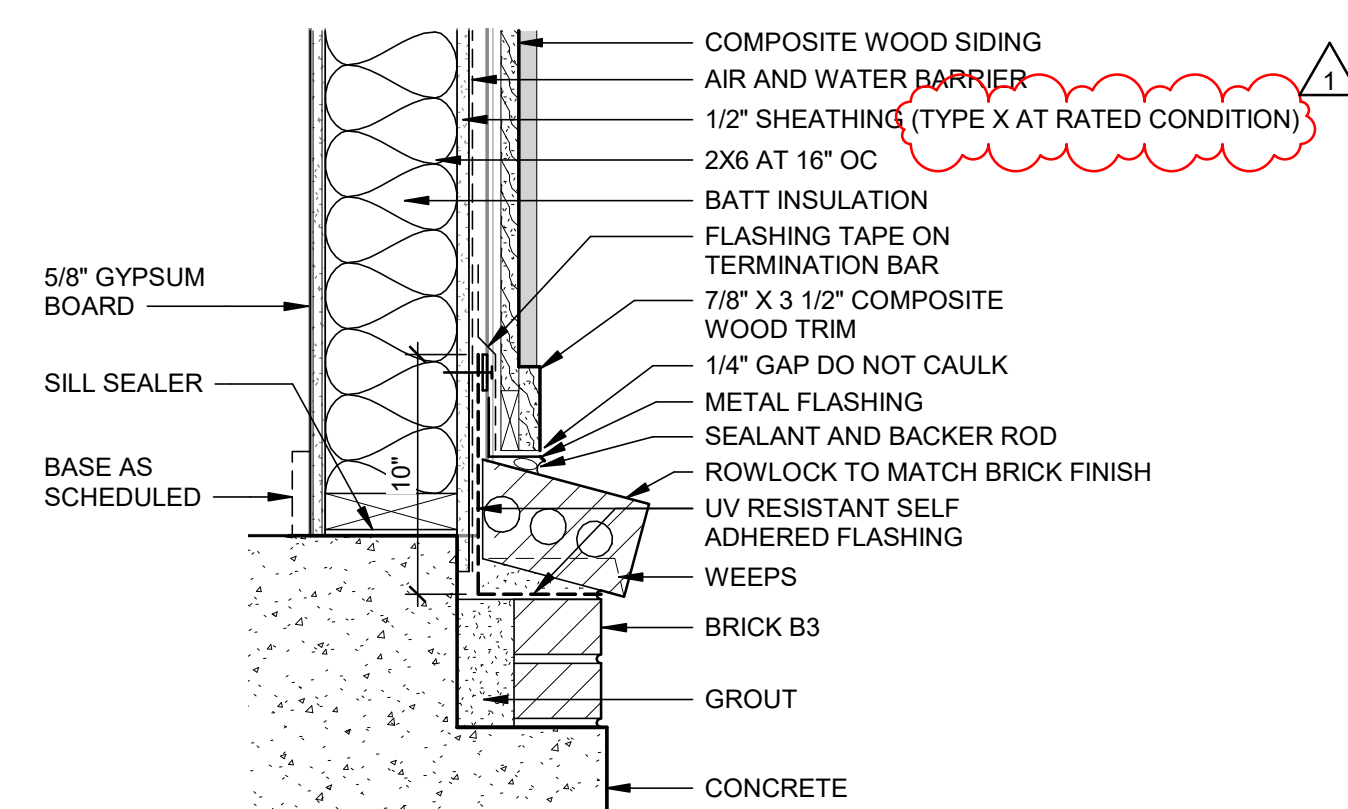
**4 EAVE DETAIL** PHASE 1 AND PHASE 2  
1 1/2" = 1'-0"



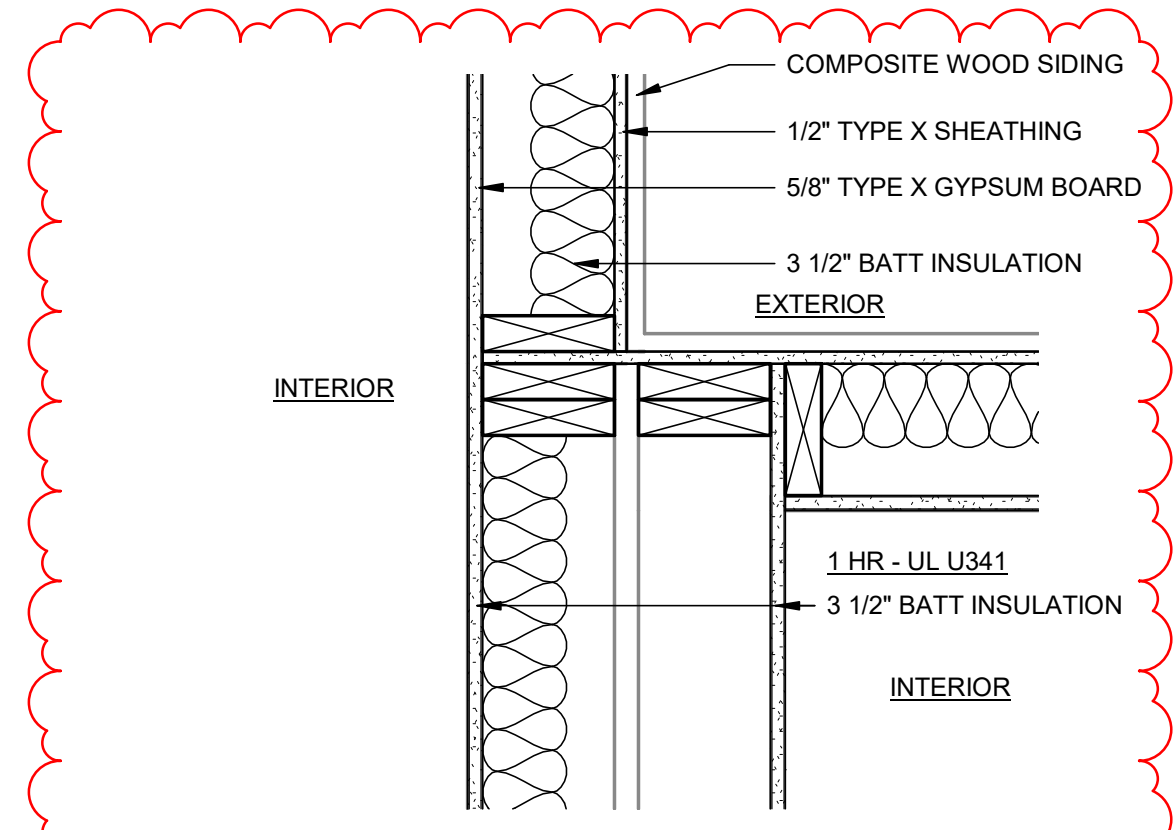
**5 LOW SLOPE EAVE DETAIL** PHASE 1 AND PHASE 2  
1 1/2" = 1'-0"



**3 SECOND FLOOR UNIT SEPARATION WALL** PHASE 1 AND PHASE 2  
1 1/2" = 1'-0"



**6 BRICK LEDGE DETAIL** PHASE 1 AND PHASE 2  
1 1/2" = 1'-0"



**7 ENLARGED PLAN DETAIL**  
1 1/2" = 1'-0"

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1
1	09/09/2020	PERMIT COMMENTS

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: DHW

SHEET NAME  
WALL SECTION DETAILS

SHEET NUMBER  
**A-312**



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

**ISSUES / REVISIONS**

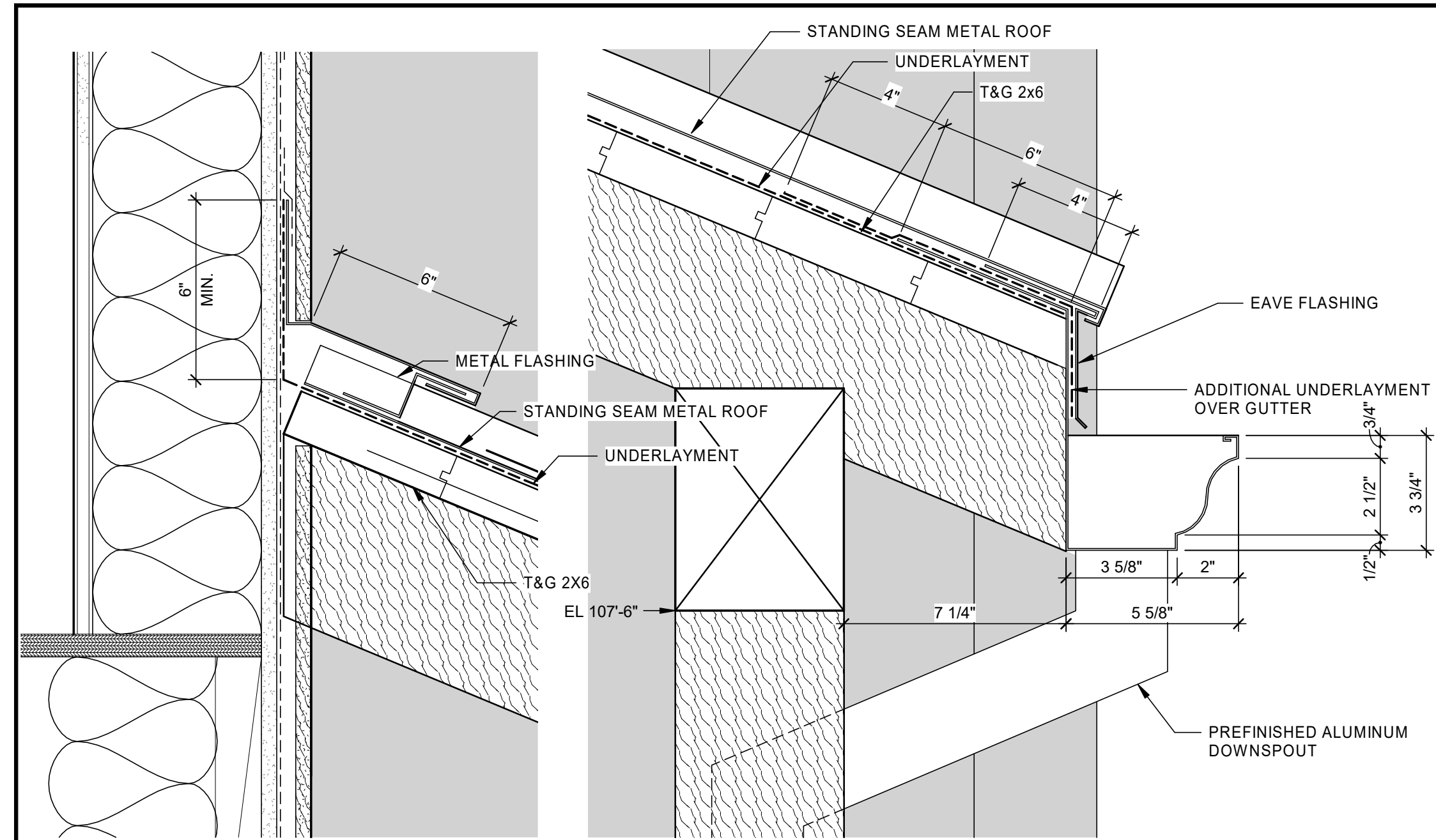
NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: DHW

SHEET NAME  
**CANOPY ELEVATION SECTIONS AND DETAILS BLDG A4 FRONT**

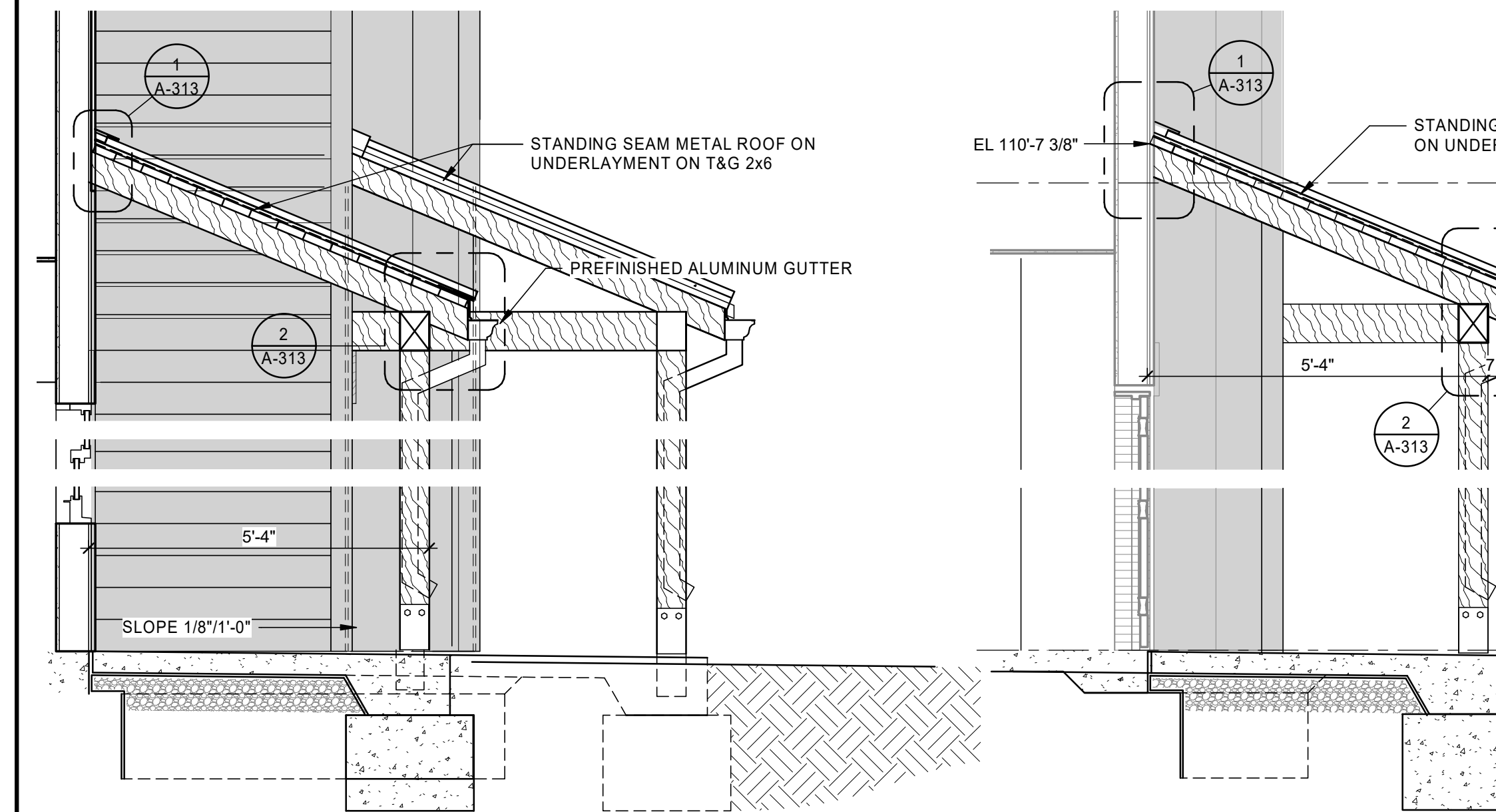
SHEET NUMBER

**A-313**



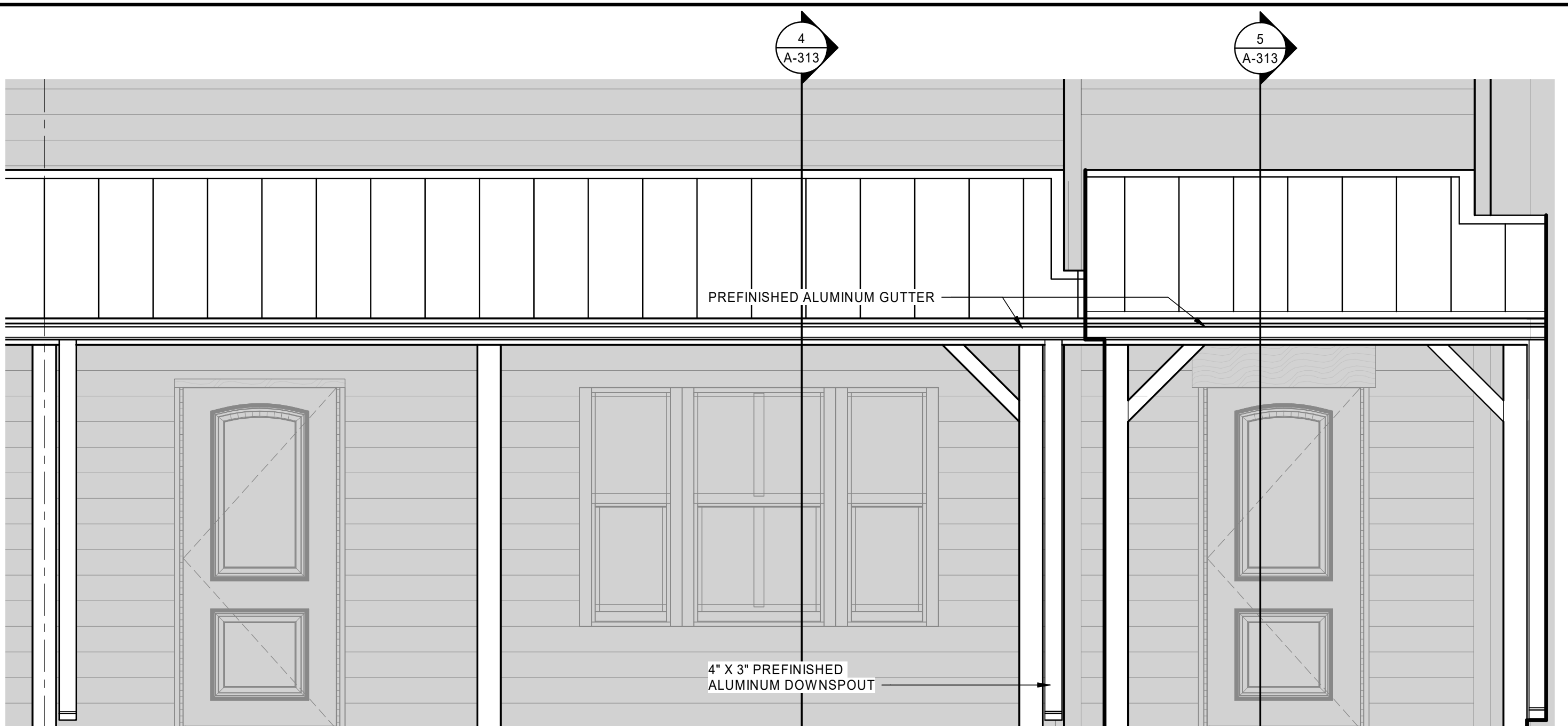
**1 CANOPY RIDGE**  
3" = 1'-0"

**2 CANOPY EAVE**  
3" = 1'-0"

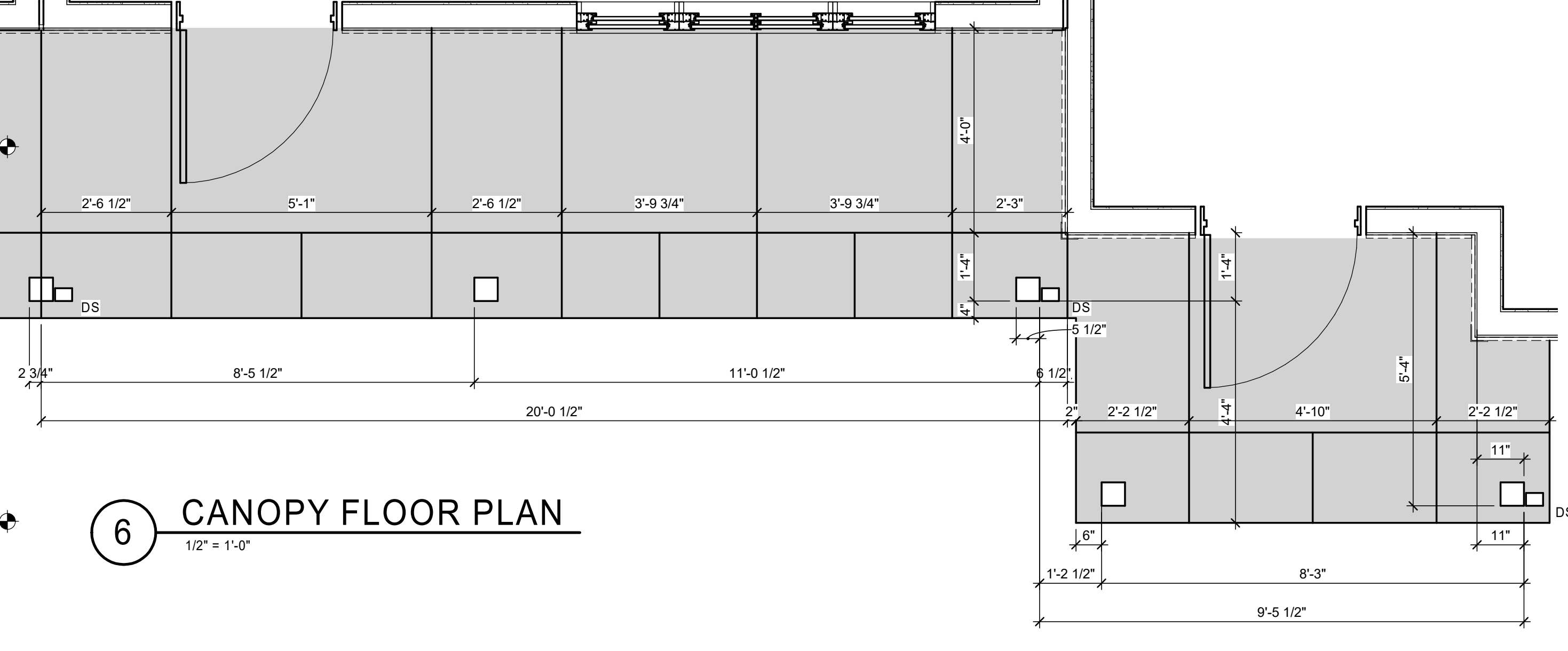


**4 SECTION**  
1/2" = 1'-0"

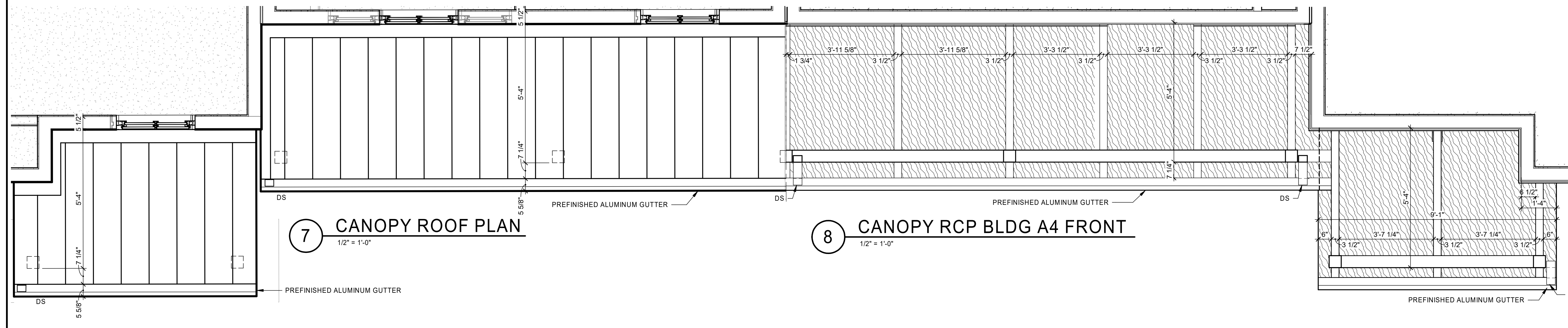
**5 SECTION**  
1/2" = 1'-0"



**3 CANOPY ELEVATION BLDG A4 FRONT**  
1/2" = 1'-0"

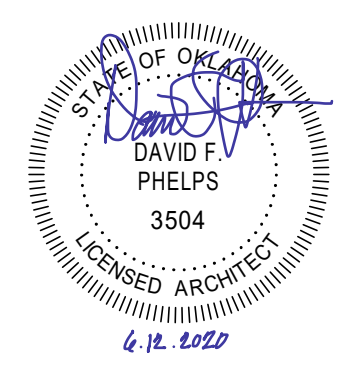


**6 CANOPY FLOOR PLAN**  
1/2" = 1'-0"



**7 CANOPY ROOF PLAN**  
1/2" = 1'-0"

**8 CANOPY RCP BLDG A4 FRONT**  
1/2" = 1'-0"



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1  
BOOMTOWN DEVELOPMENT COMPANY**  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

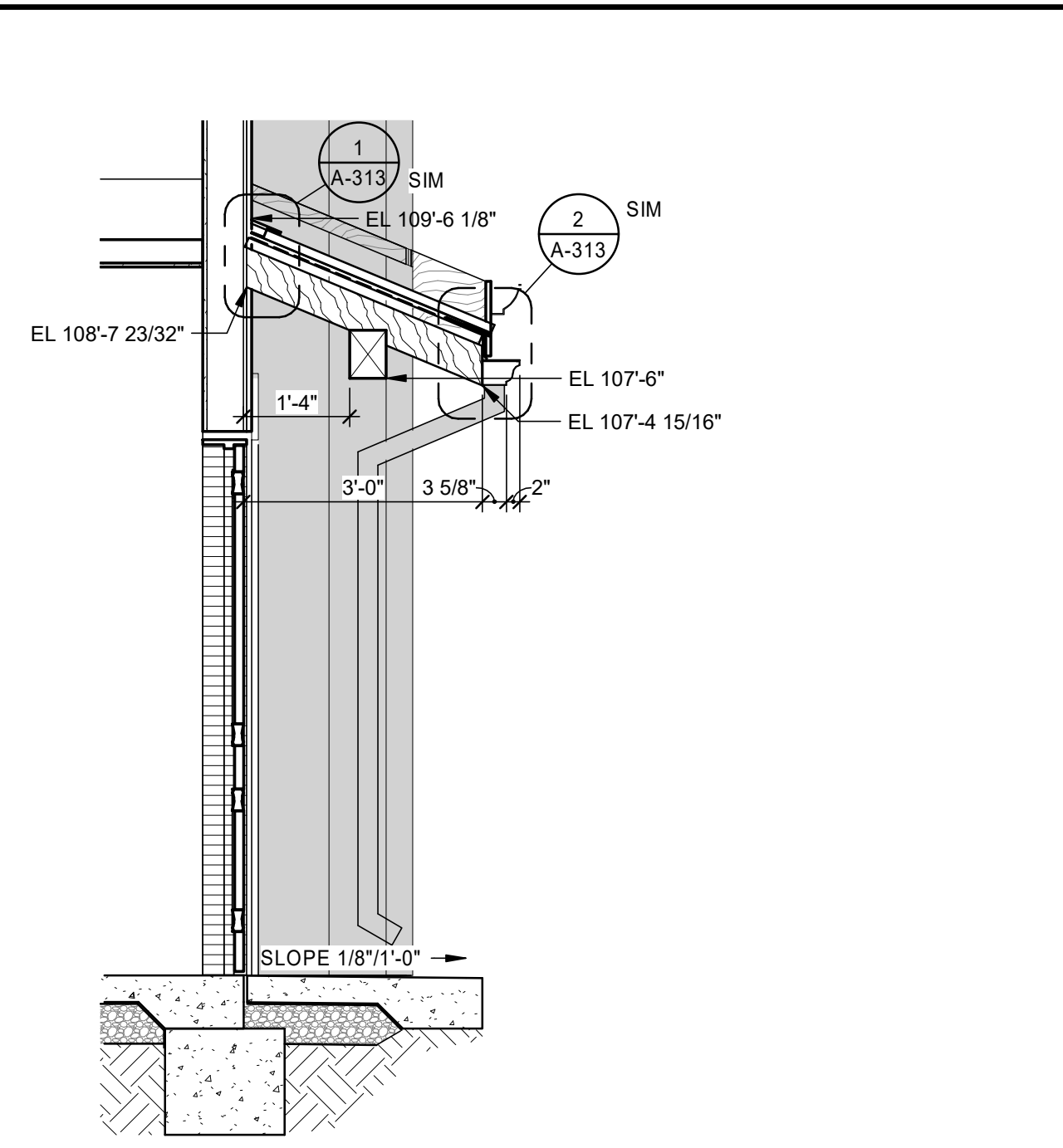
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: DHW

SHEET NAME  
**CANOPY ELEVATION SECTIONS  
AND DETAILS BLDG A4 REAR**

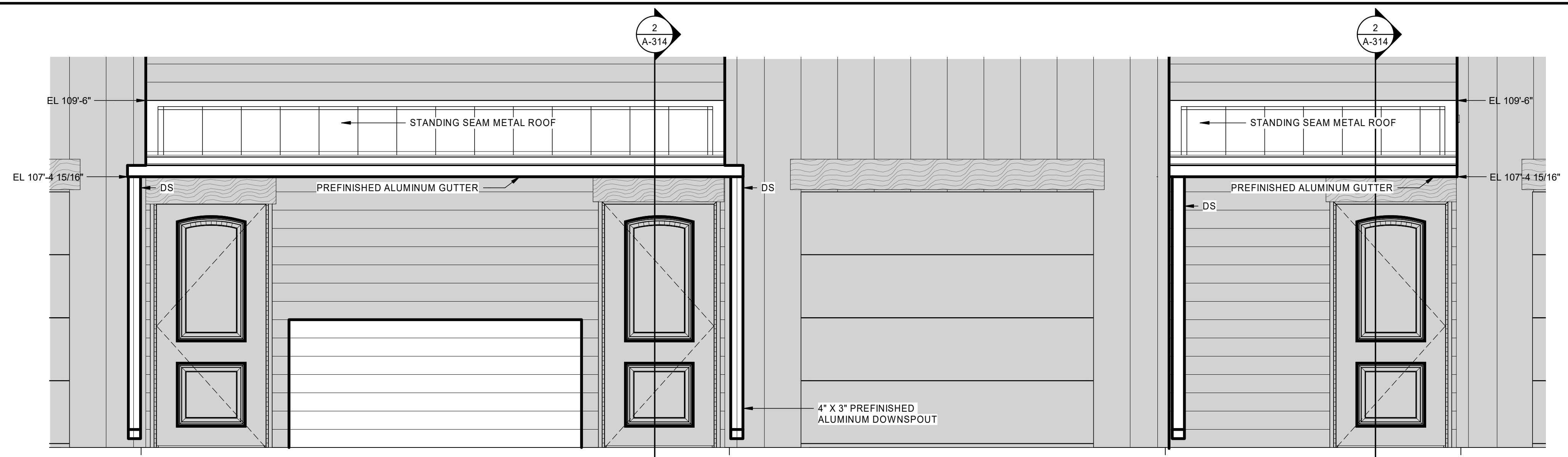
SHEET NUMBER

**A-314**

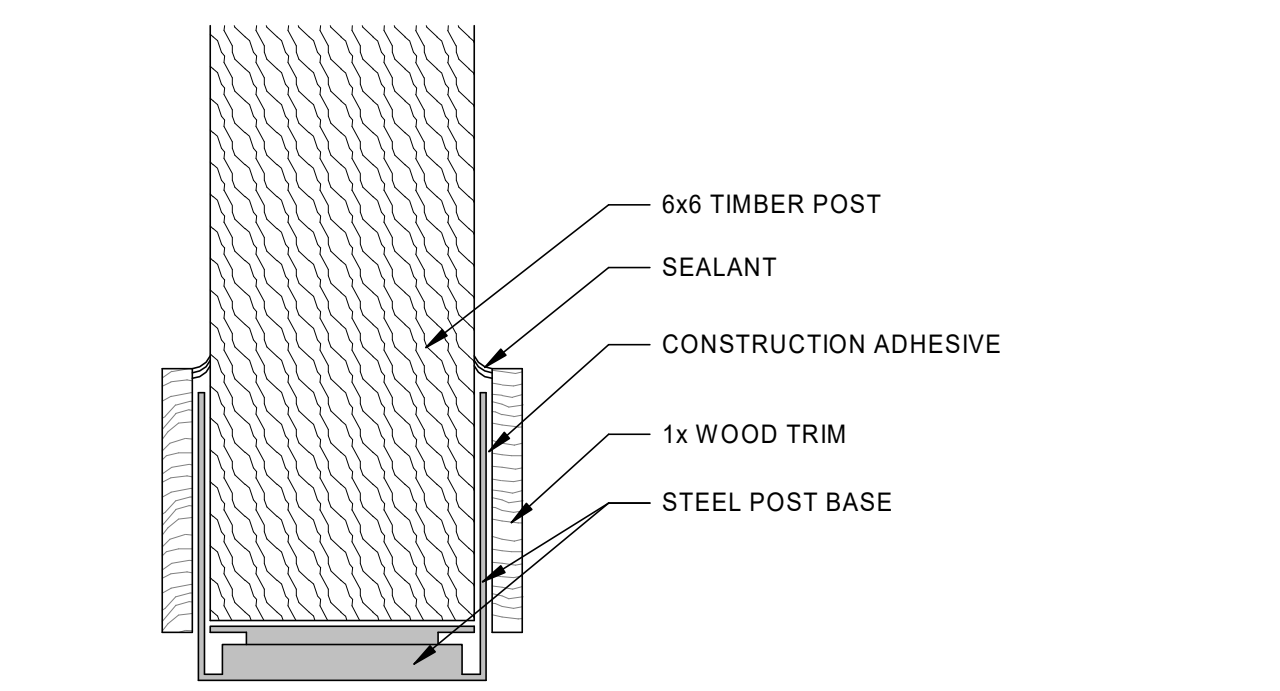
PHASE 1 AND PHASE 2



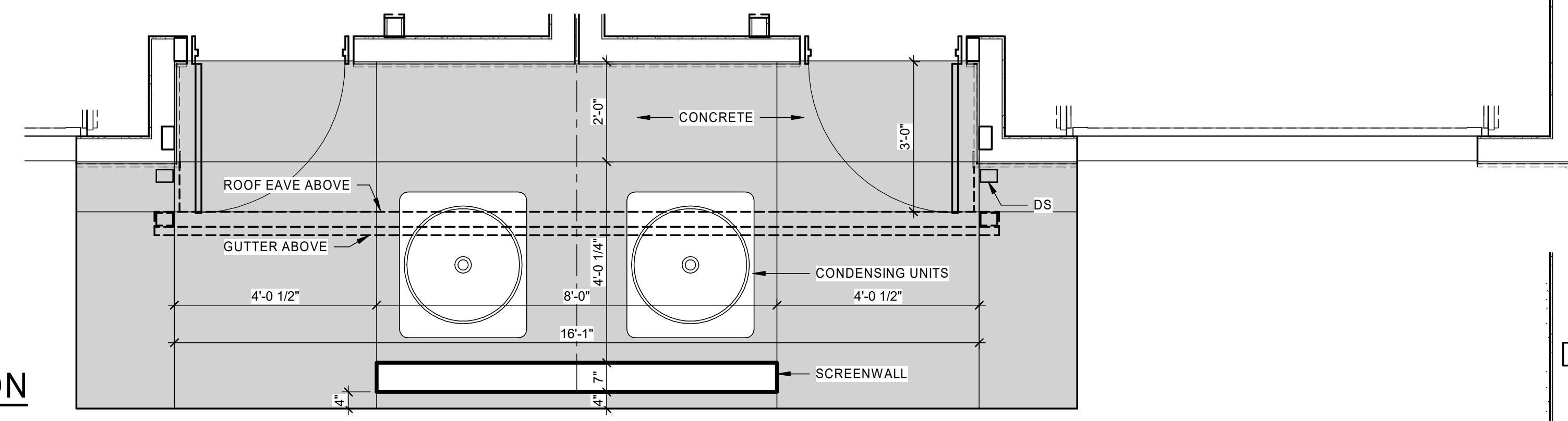
**2 CANOPY SECTION BLDG A4 REAR**  
1/2" = 1'-0"



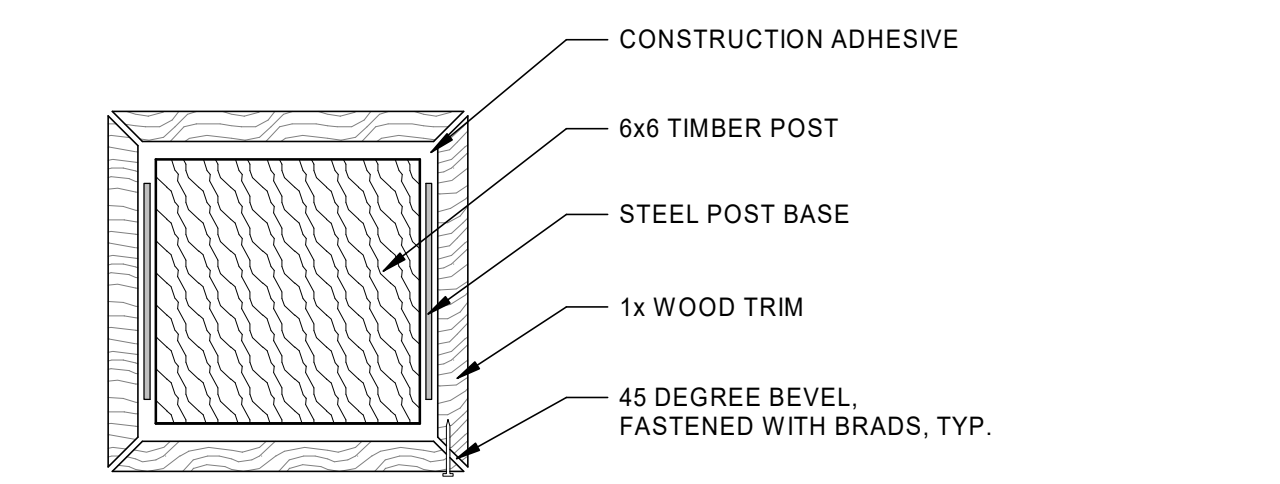
**1 CANOPY ELEVATION BLDG A4 REAR**  
1/2" = 1'-0"



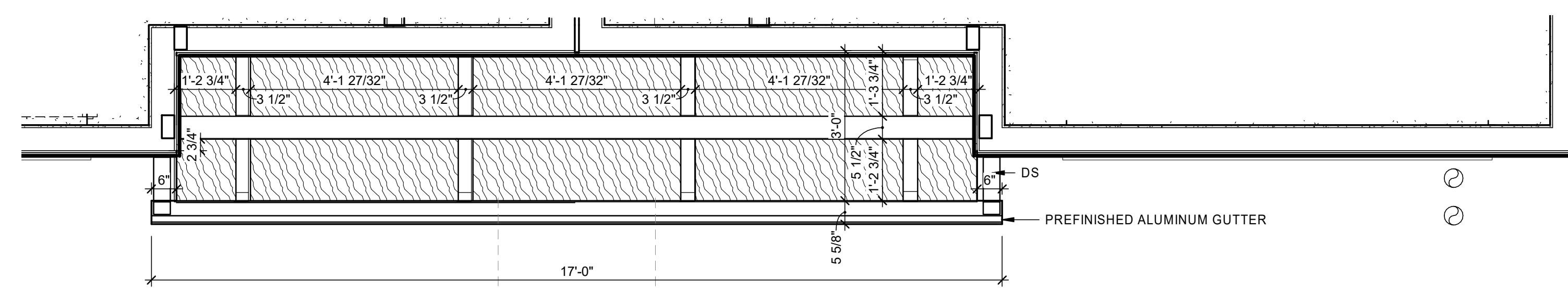
**6 CANOPY POST BASE COVERING - SECTION**  
3" = 1'-0"



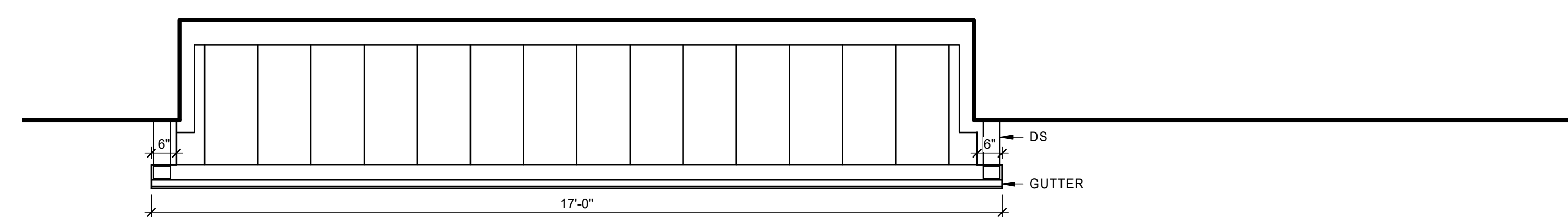
**3 CANOPY FLOOR PLAN BLDG A4 REAR**  
1/2" = 1'-0"



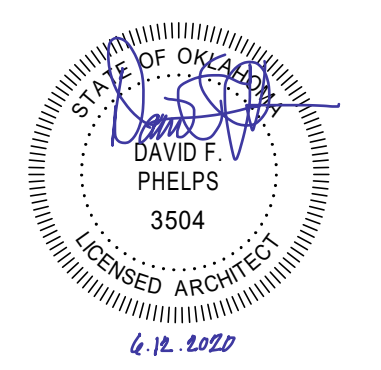
**7 CANOPY POST BASE COVERING - PLAN**  
3" = 1'-0"



**4 CANOPY RCP BLDG A4 REAR**  
1/2" = 1'-0"



**5 CANOPY ROOF PLAN BLDG A4 REAR**  
1/2" = 1'-0"



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

FLOOR PLAN LEGEND	
	FACE OF EXTERIOR FINISH EXTERIOR WALLS
	DOOR TYPE INDICATOR
ROOM NAME 101	ROOM IDENTIFIER
A3	WALL TYPE INDICATOR
10	WINDOW TYPE INDICATOR

ROOM FINISH LEGEND	
ROOM IDENTIFIER AND FINISH INDICATOR	
ROOM NAME PT1	BASE FINISH
RB1	FLOOR FINISH
CPT1	FINISH NOTES

FINISH SCHEMES	
FINISH SCHEME 1: • LUXURY VINYL TILE: LVT1 • BASE: B1 • BATHROOM FLOOR TILE: T1 • COUNTERTOP: PL1 • MILLWORK: PT3 • PAINT: PT1	FINISH SCHEME 2: • LUXURY VINYL TILE: LVT2 • BASE: B1 • BATHROOM FLOOR TILE: T2 • COUNTERTOP: PL2 • MILLWORK: PT4 • PAINT: PT1

NOTE: REFER TO AS101 FOR FINISH SCHEME LOCATIONS.  
NOTE: TENANTS TO SELECT FINISH SCHEMES FOR INDIVIDUAL UNITS UNLESS NOTED OTHERWISE.

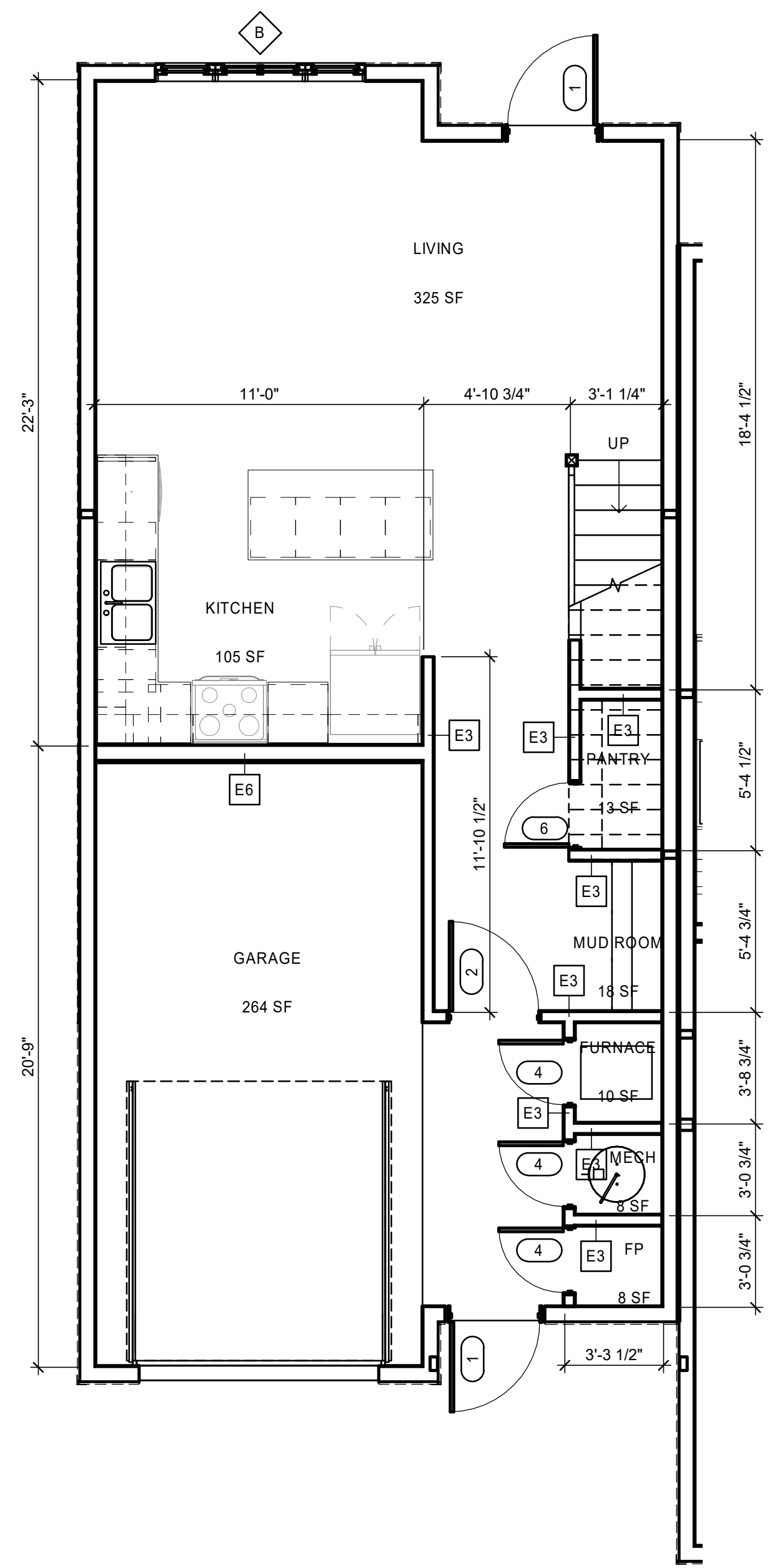
- GENERAL FINISH NOTES**
- CONTRACTOR TO INSTALL METAL TRANSITION STRIP AT ALL EXPOSED WALL TILE ENDS IN ALL LOCATIONS. RE: TRANSITION DETAILS.
  - CONTRACTOR TO INSTALL WOOD TRANSITION STRIP AT TILE FLOORING TO LVT FLOORING. RE: TRANSITION DETAILS. TRANSITIONS TO OCCUR UNDER CENTER OF DOOR.
  - CONTRACTOR TO INSTALL METAL NOSING AT STAIRS. RE: TRANSITION DETAILS.
  - CONTRACTOR TO INSTALL METAL TRANSITION STRIP BETWEEN LVT TREADS AND RISERS. RE: TRANSITION DETAILS.
  - CEILING TO BE PAINTED PT1, UNLESS NOTED OTHERWISE.
  - CONTRACTOR TO PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED SHELVING.
  - CONTRACTOR TO PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED RESTROOM ACCESSORIES.
  - TOWEL RING HOLDER, TH1, TO BE MOUNTED AT 4'-0" AFF.
  - TOWEL RACK, TR1, TO BE MOUNTED AT 4'-0" AFF.
  - TOILET TISSUE DISPENSER, TTD1, TO BE MOUNTED AT 2'-2" AFF.
  - SHOWER CURTAIN ROD, CR1, TO BE MOUNTED AT 6'-4" AFF.
  - REFER TO FINISH SCHEMES FOR FINISH SCHEME INFORMATION.
  - REFER TO SPECIALTY SCHEDULE ON A-501.
  - REFER TO BUILDING PLANS FOR EXTERIOR DOOR LOCATIONS AND TAGS.
  - REFER TO ENLARGED UNIT PLANS FOR INTERIOR DOOR LOCATIONS AND TAGS.
  - INTERIOR DOOR AND FRAMES TO BE PAINTED PT2.
  - EXTERIOR DOORS TO BE PAINTED SHERWIN WILLIAMS PEPPER CORN SW7674.
  - MITER CORNER JOINTS FOR ALL DOOR CASINGS.

FLOOR PATTERN LEGEND	
	LUXURY VINYL TILE, LVT; RE: FINISH SCHEMES
	TILE, T; RE: FINISH SCHEMES
	CONCRETE; RE: SPECS

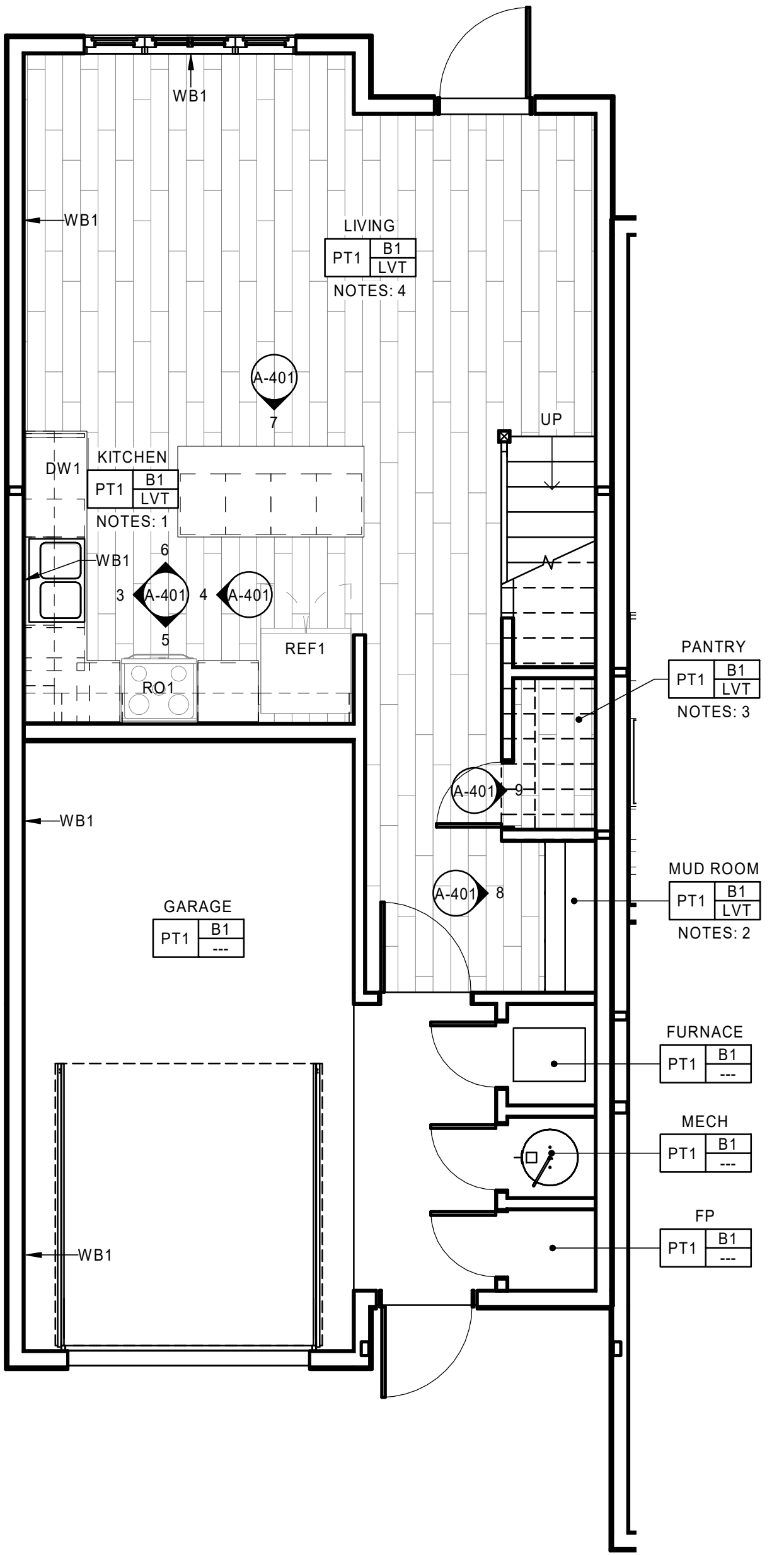
FINISH COMMENTS	
NUMBER	COMMENT
1	MILLWORK INCLUDES WOOD CABINETS (WD1) AND PLASTIC LAMINATE COUNTERTOPS; RE: FINISH SCHEMES FOR FINISH INFORMATION
2	MILLWORK INCLUDES WOOD CABINETS (WD1); RE: FINISH SCHEMES FOR FINISH INFORMATION
3	MDF SHELVING; PAINT TO MATCH ADJACENT WALL COLOR
4	STAIR FINISHES: TREADS AND RISERS TO BE LVT; BALLUSTRADES AND NEWEL POSTS TO BE PAINTED; HANDRAIL CAP TO BE STAINED; RE: FINISH SCHEMES AND TRANSITION DETAILS
5	INSTALL TILE AT WINDOW CONDITION ONLY.

FINISH MATERIAL LEGEND	
MARK	DESCRIPTION
LUXURY VINYL TILE	
LVT1	SHAW: UNCOMMON GROUND 6, 0188V; COLOR: HERITAGE 02710; SIZE: 6" X 36"; INSTALL: RANDOM
LVT2	SHAW: TERRAIN II 20 MIL, 0454V; COLOR: LODGE 00740; SIZE: 6" X 48"; INSTALL: RANDOM
TILE	
T1	ATLAS CONCORDE USA; LIBERTY; COLOR: CALACATTA CENTENNIAL; SIZE: 12" X 24"; INSTALL: RE: FINISH PLANS AND ELEVATIONS
T2	CROSSVILLE; STYLE SQUARED; FRAPPE; COLOR: WHITE; SIZE: 12" X 24"; INSTALL: RE: FINISH PLAN AND ELEVATIONS
T3	CROSSVILLE; STYLE SQUARED; SOHO; COLOR: WHITE GLOSSY; SIZE: 3" X 6"; INSTALL: RE: ELEVATIONS
BASE	
B1	1" X 4" WOOD BASE WITH SANDED EDGE; PAINT, PT2; MITER ALL INSIDE AND OUTSIDE CORNERS

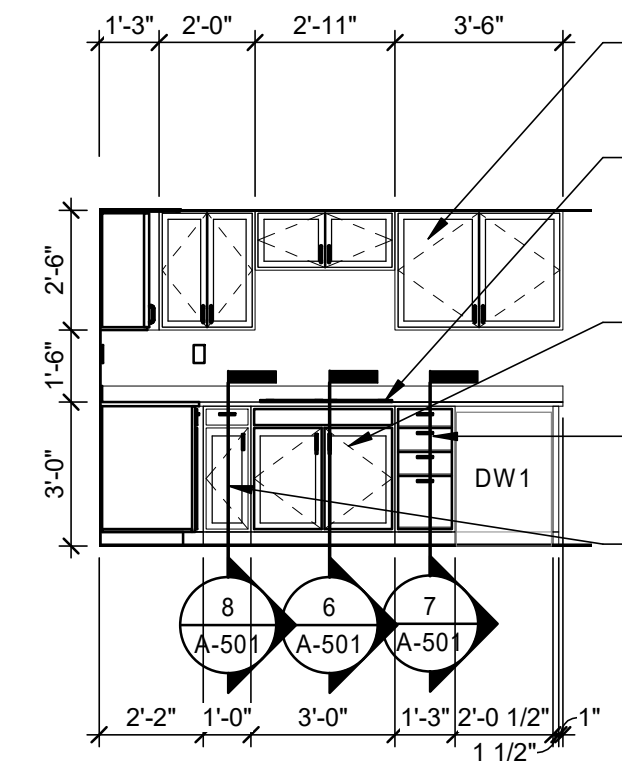
FINISH MATERIAL LEGEND	
MARK	DESCRIPTION
MILLWORK	
PL1	WILSONART; COLOR: CALCUTTA MARBLE 4925K-07; TEXTURED GLOSS FINISH
PL2	FORMICA; COLOR: WHITE ICE GRANITE 9476-43; ARTISAN FINISH
WOOD	
WD1	SPECIES: WHITE OAK; RE: FINISH SCHEMES FOR FINISHES
STAIN	
S1	STAIR STAIN FINISH SCHEME 1
S2	STAIR STAIN FINISH SCHEME 2
PAINT	
PT1	SHERWIN WILLIAMS; COLOR: CRUSHED ICE SW7647
PT2	SHERWIN WILLIAMS; COLOR: PURE WHITE SW7005
PT3	SHERWIN WILLIAMS; COLOR: IRON ORE SW7069
PT4	SHERWIN WILLIAMS; COLOR: GIBRALTAR SW6257



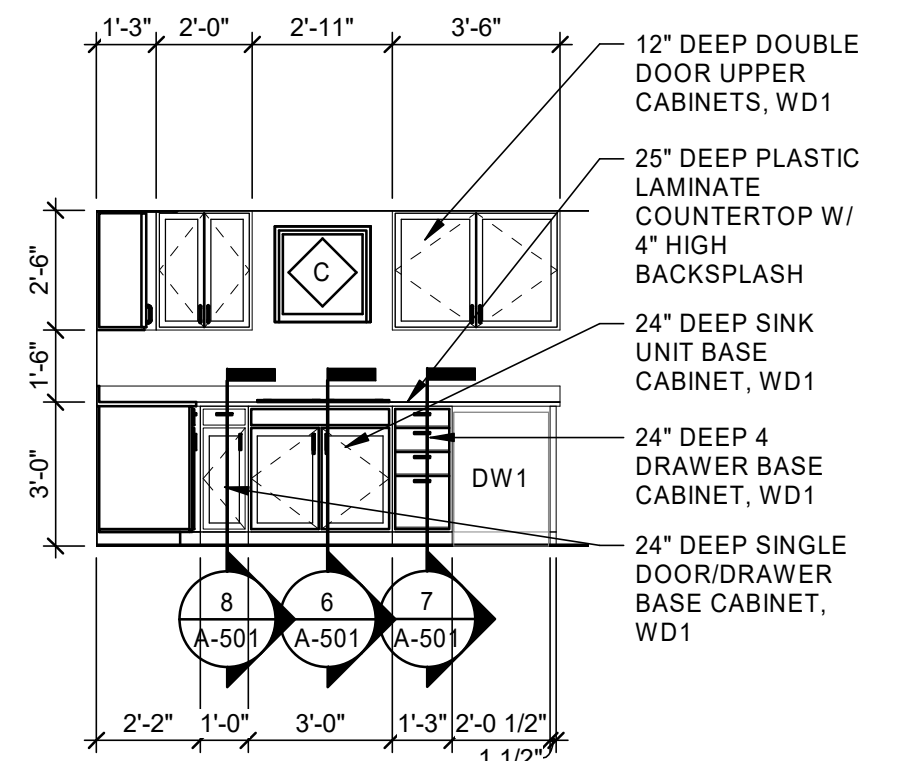
**1 UNIT A1 - FIRST FLOOR PLAN**  
1/4" = 1'-0"



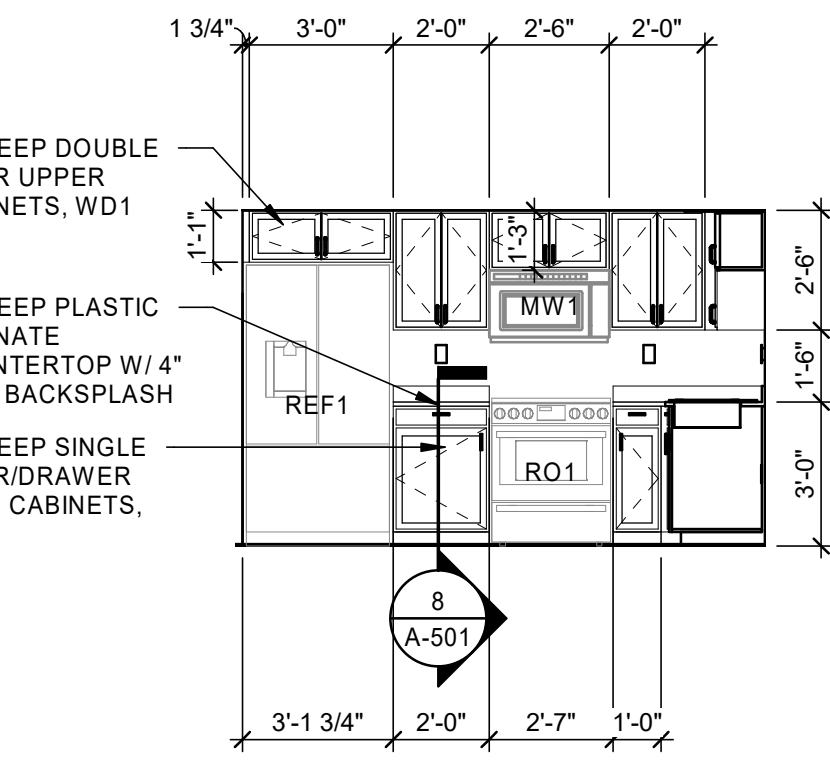
**2 UNIT A1 - FIRST FLOOR FINISH PLAN**  
1/4" = 1'-0"



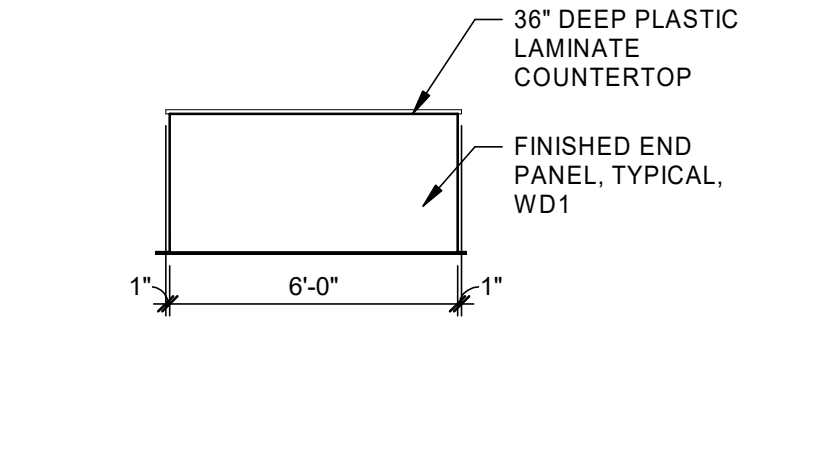
**3 UNIT A1 - KITCHEN 1**  
1/4" = 1'-0"



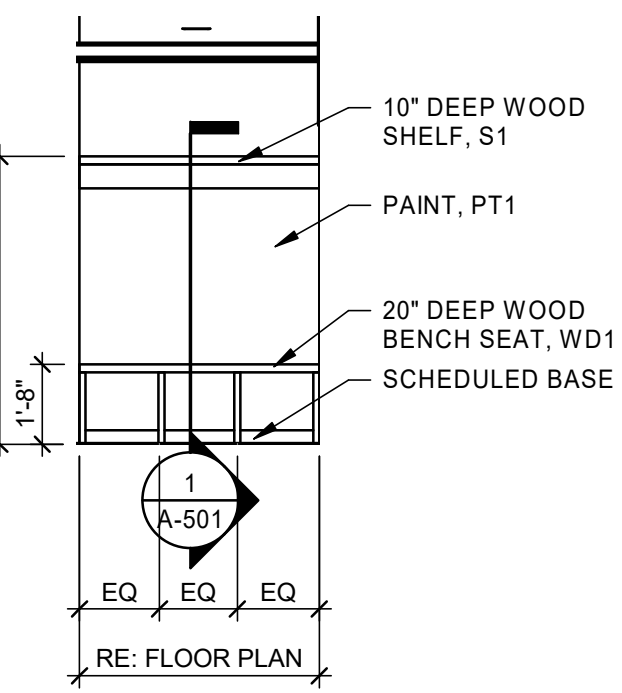
**4 UNIT A1 - KITCHEN 2**  
1/4" = 1'-0"



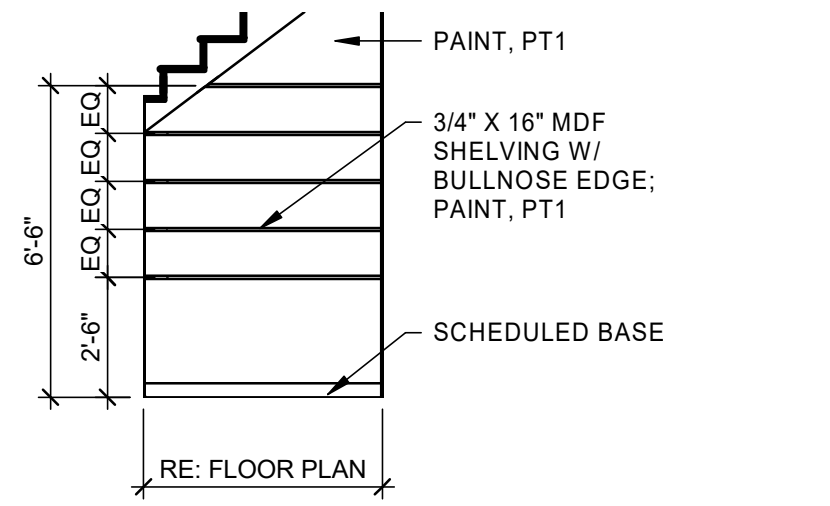
**6 UNIT A1 - ISLAND 1**  
1/4" = 1'-0"



**7 UNIT A1 - ISLAND 2**  
1/4" = 1'-0"



**8 UNIT A1 - MUD ROM**  
1/4" = 1'-0"



**9 UNIT A1 - PANTRY**  
1/4" = 1'-0"

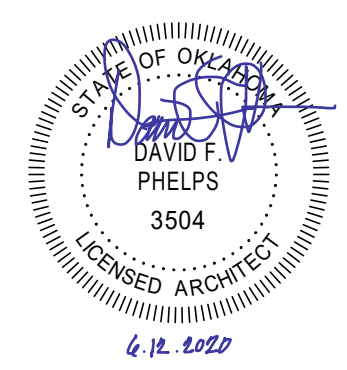
**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS	
06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: EEW

SHEET NAME  
ENLARGED UNIT A1 FIRST FLOOR PLANS

SHEET NUMBER  
**A-401**



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

FLOOR PLAN LEGEND	
	FACE OF EXTERIOR FINISH EXTERIOR WALLS
	DOOR TYPE INDICATOR
	ROOM NAME
	WALL TYPE INDICATOR
	WINDOW TYPE INDICATOR

ROOM FINISH LEGEND	
ROOM IDENTIFIER AND FINISH INDICATOR	
	ROOM NAME
	BASE FINISH
	FLOOR FINISH
	FINISH NOTES

FINISH SCHEMES	
FINISH SCHEME 1: • LUXURY VINYL TILE: LVT1 • BASE: B1 • BATHROOM FLOOR TILE: T2 • COUNTERTOP: PL1 • MILLWORK: PT3 • PAINT: PT1	FINISH SCHEME 2: • LUXURY VINYL TILE: LVT2 • BASE: B1 • BATHROOM FLOOR TILE: T2 • COUNTERTOP: PL2 • MILLWORK: PT4 • PAINT: PT1
NOTE: REFER TO AS101 FOR FINISH SCHEME LOCATIONS.	
NOTE: TENANTS TO SELECT FINISH SCHEMES FOR INDIVIDUAL UNITS UNLESS NOTED OTHERWISE.	

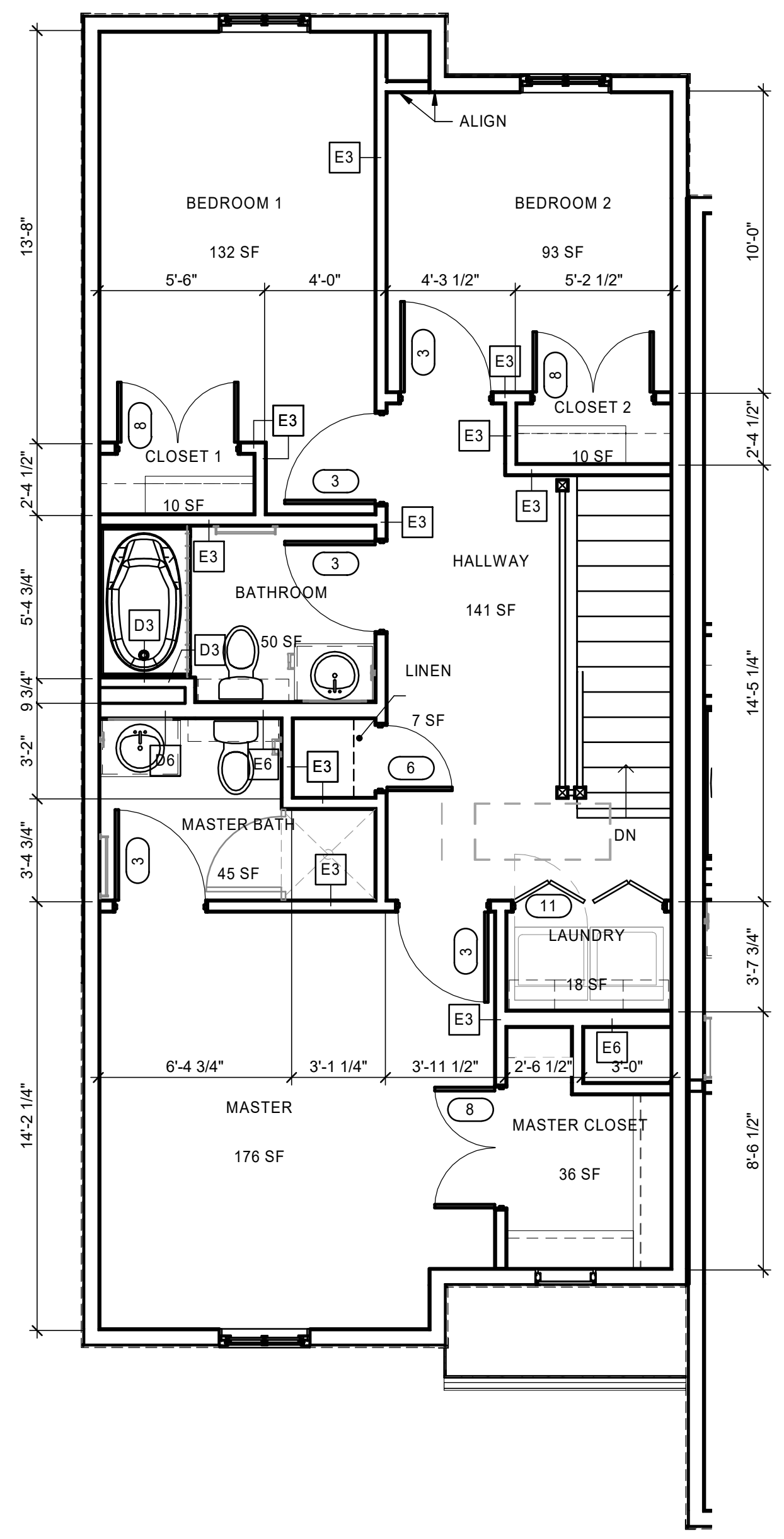
- GENERAL FINISH NOTES**
- CONTRACTOR TO INSTALL METAL TRANSITION STRIP AT ALL EXPOSED WALL TILE ENDS IN ALL LOCATIONS. RE: TRANSITION DETAILS.
  - CONTRACTOR TO INSTALL WOOD TRANSITION STRIP AT TILE FLOORING TO LVT FLOORING. RE: TRANSITION DETAILS. TRANSITIONS TO OCCUR UNDER CENTER OF DOOR.
  - CONTRACTOR TO INSTALL METAL NOSING AT STAIRS. RE: TRANSITION DETAILS.
  - CONTRACTOR TO INSTALL METAL TRANSITION STRIP BETWEEN LVT TREADS AND RISERS. RE: TRANSITION DETAILS.
  - CEILING TO BE PAINTED PT1, UNLESS NOTED OTHERWISE.
  - CONTRACTOR TO PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED SHELVING.
  - CONTRACTOR TO PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED RESTROOM ACCESSORIES.
  - TOWEL RING HOLDER, TH1, TO BE MOUNTED AT 4'-0" AFF.
  - TOWEL RACK, TR1, TO BE MOUNTED AT 4'-0" AFF.
  - TOILET TISSUE DISPENSER, TTD1, TO BE MOUNTED AT 2'-2" AFF.
  - SHOWER CURTAIN ROD, CR1, TO BE MOUNTED AT 6'-4" AFF.
  - REFER TO FINISH SCHEMES FOR FINISH SCHEME INFORMATION.
  - REFER TO SPECIALTY SCHEDULE ON A-501.
  - REFER TO BUILDING PLANS FOR EXTERIOR DOOR LOCATIONS AND TAGS.
  - REFER TO ENLARGED UNIT PLANS FOR INTERIOR DOOR LOCATIONS AND TAGS.
  - INTERIOR DOOR AND FRAMES TO BE PAINTED PT2.
  - EXTERIOR DOORS TO BE PAINTED SHERWIN WILLIAMS PEPPERCOORN SW7674.
  - MITER CORNER JOINTS FOR ALL DOOR CASINGS.

FLOOR PATTERN LEGEND	
	LUXURY VINYL TILE, LVT; RE: FINISH SCHEMES
	TILE, T; RE: FINISH SCHEMES
	CONCRETE; RE: SPECS

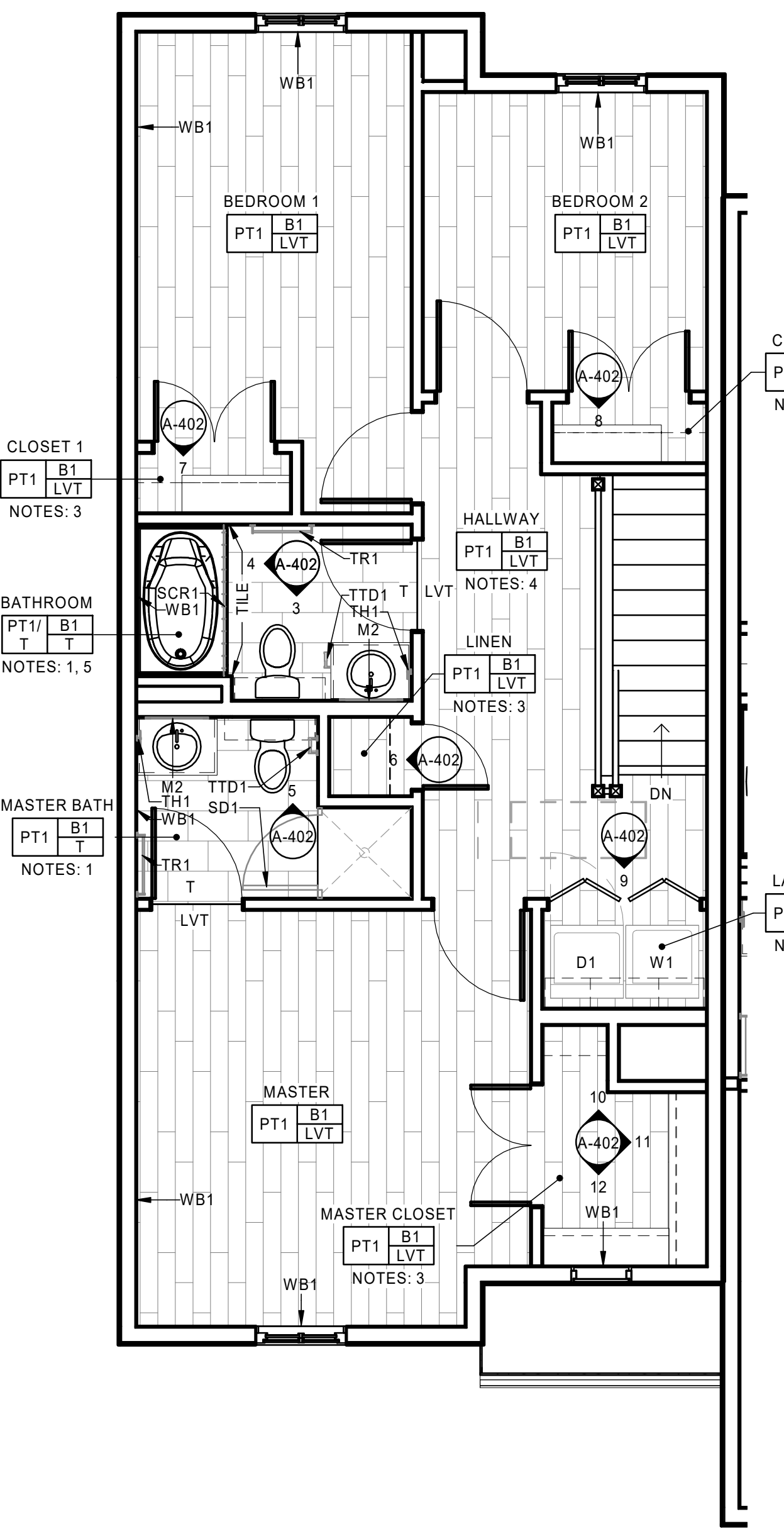
FINISH COMMENTS	
NUMBER	COMMENT
1	MILLWORK INCLUDES WOOD CABINETS (WD1) AND PLASTIC LAMINATE COUNTERTOPS. RE: FINISH SCHEMES FOR FINISH INFORMATION
2	MILLWORK INCLUDES WOOD CABINETS (WD1); RE: FINISH SCHEMES FOR FINISH INFORMATION
3	MDF SHELVING; PAINT TO MATCH ADJACENT WALL COLOR
4	STAIR FINISHES: TREADS AND RISERS TO BE LVT; BALLUSTRADES AND NEWEL POSTS TO BE PAINTED; HANDRAIL CAP TO BE STAINED; RE: FINISH SCHEMES AND TRANSITION DETAILS
5	INSTALL TILE AT WINDOW CONDITION ONLY.

FINISH MATERIAL LEGEND	
MARK	DESCRIPTION
LUXURY VINYL TILE	
LVT1	SHAW: UNCOMMON GROUND 6, 0188V; COLOR: HERITAGE 02710; SIZE: 6" X 36"; INSTALL: RANDOM
LVT2	SHAW: TERRAIN II 20 MIL, 0454V; COLOR: LODGE 00740; SIZE: 6" X 48"; INSTALL: RANDOM
TILE	
T1	ATLAS CONCORDE USA; LIBERTY; COLOR: CALACATTA CENTENNIAL; SIZE: 12" X 24"; INSTALL: RE: FINISH PLANS AND ELEVATIONS
T2	CROSSVILLE; STILE SQUARED; FRAPPE; COLOR: WHITE; SIZE: 12" X 24"; INSTALL: RE: FINISH PLAN AND ELEVATIONS
T3	CROSSVILLE; STILE SQUARED; SOHO; COLOR: WHITE GLOSSY; SIZE: 3" X 6"; INSTALL: RE: ELEVATIONS
BASE	
B1	1" X 4" WOOD BASE WITH SANDED EDGE; PAINT, PT2; MITER ALL INSIDE AND OUTSIDE CORNERS

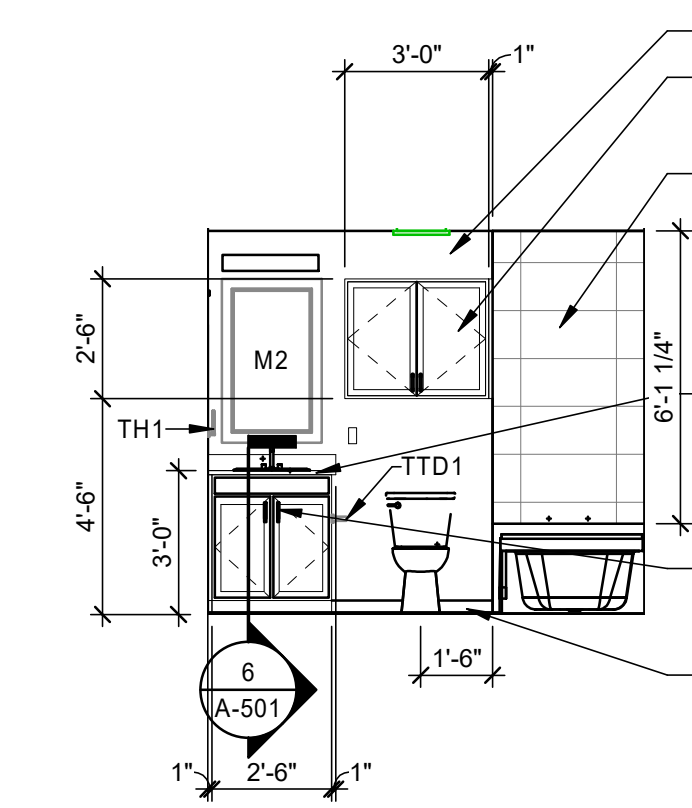
FINISH MATERIAL LEGEND	
MARK	DESCRIPTION
MILLWORK	
PL1	WILSONART; COLOR: CALCUTTA MARBLE 4925K-07; TEXTURED GLOSS FINISH
PL2	FORMICA; COLOR: WHITE ICE GRANITE 9476-43; ARTISAN FINISH
WOOD	
WD1	SPECIES: WHITE OAK; RE: FINISH SCHEMES FOR FINISHES
STAIN	
S1	STAIR STAIN FINISH SCHEME 1
S2	STAIR STAIN FINISH SCHEME 2
PAINT	
PT1	SHERWIN WILLIAMS; COLOR: CRUSHED ICE SW7647
PT2	SHERWIN WILLIAMS; COLOR: PURE WHITE SW7005
PT3	SHERWIN WILLIAMS; COLOR: IRON ORE SW7069
PT4	SHERWIN WILLIAMS; COLOR: GIBRALTAR SW6257



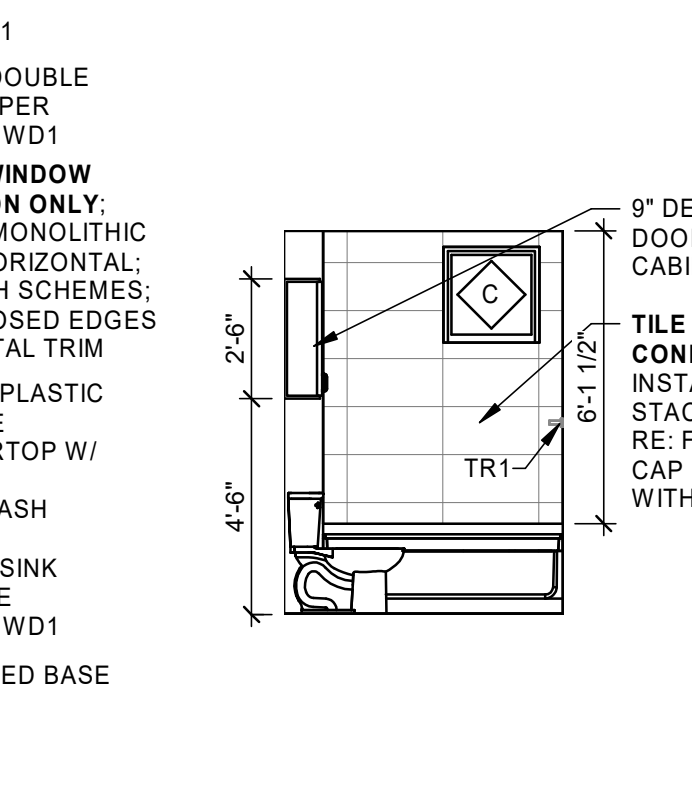
**1 UNIT A1 - SECOND FLOOR PLAN**  
1/4" = 1'-0"



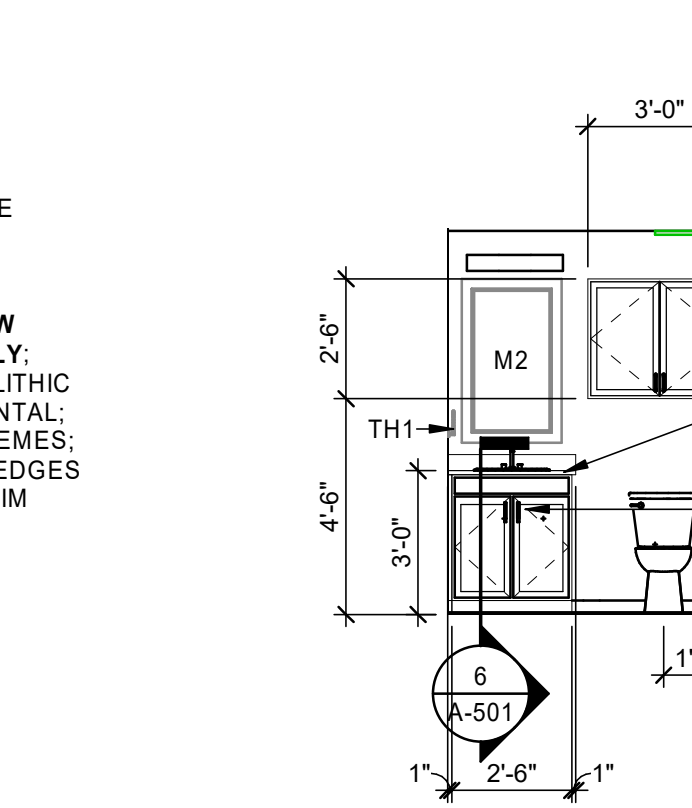
**2 UNIT A1 - SECOND FLOOR FINISH PLAN**  
1/4" = 1'-0"



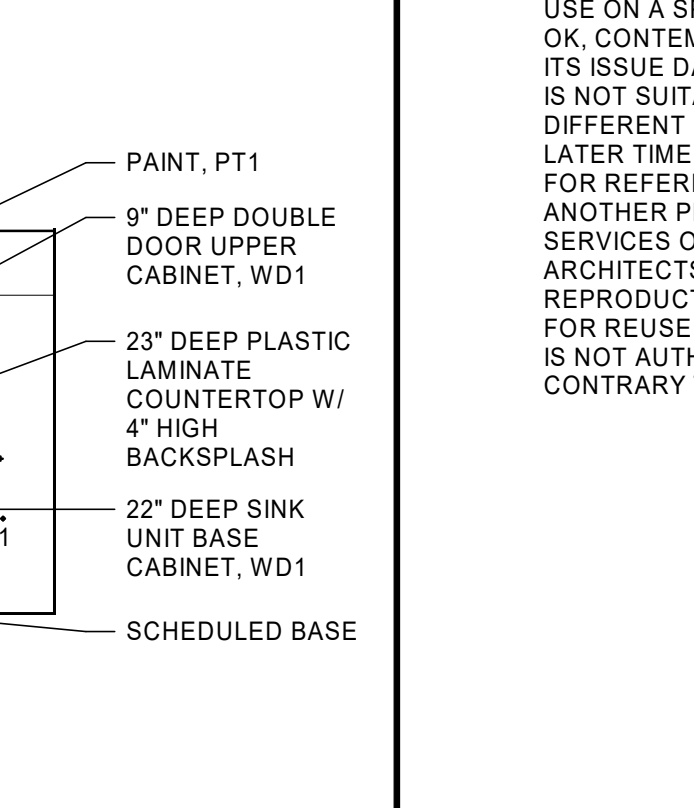
**3 UNIT A1 - BATHROOM WINDOW CONDITION**  
1/4" = 1'-0"



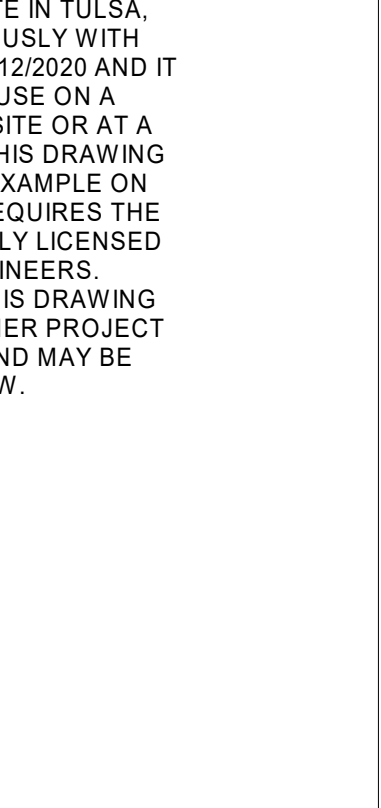
**4 UNIT A1 - MASTER BATH WINDOW CONDITION**  
1/4" = 1'-0"



**6 UNIT A1 - LINEN**  
1/4" = 1'-0"



**7 UNIT A1 - MASTER CLOSET 1**  
1/4" = 1'-0"



**8 UNIT A1 - MASTER CLOSET 2**  
1/4" = 1'-0"



**9 UNIT A1 - LAUNDRY**  
1/4" = 1'-0"



**10 UNIT A1 - MASTER CLOSET 3**  
1/4" = 1'-0"



**11 UNIT A1 - MASTER CLOSET 1**  
1/4" = 1'-0"



**12 UNIT A1 - MASTER CLOSET 2**  
1/4" = 1'-0"



**13 UNIT A1 - MASTER CLOSET 3**  
1/4" = 1'-0"

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS	
06/12/2020	PERMIT SET - PHASE 1

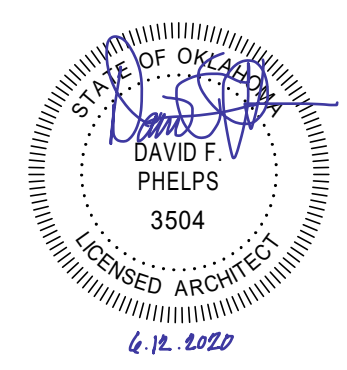
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: EEW

SHEET NAME  
ENLARGED UNIT A1 SECOND FLOOR PLANS

SHEET NUMBER

**A-402**

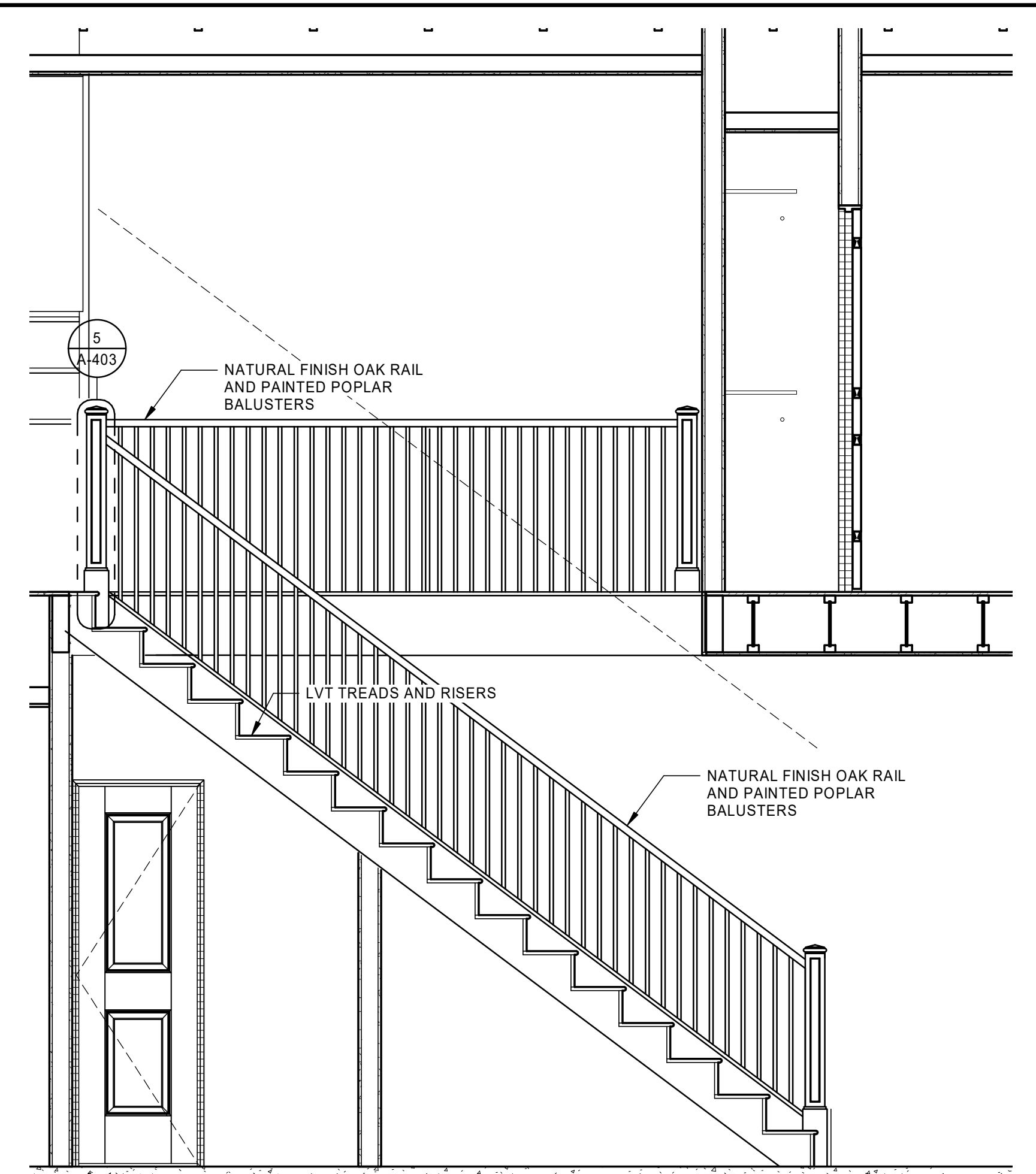
PHASE 1 AND PHASE 2



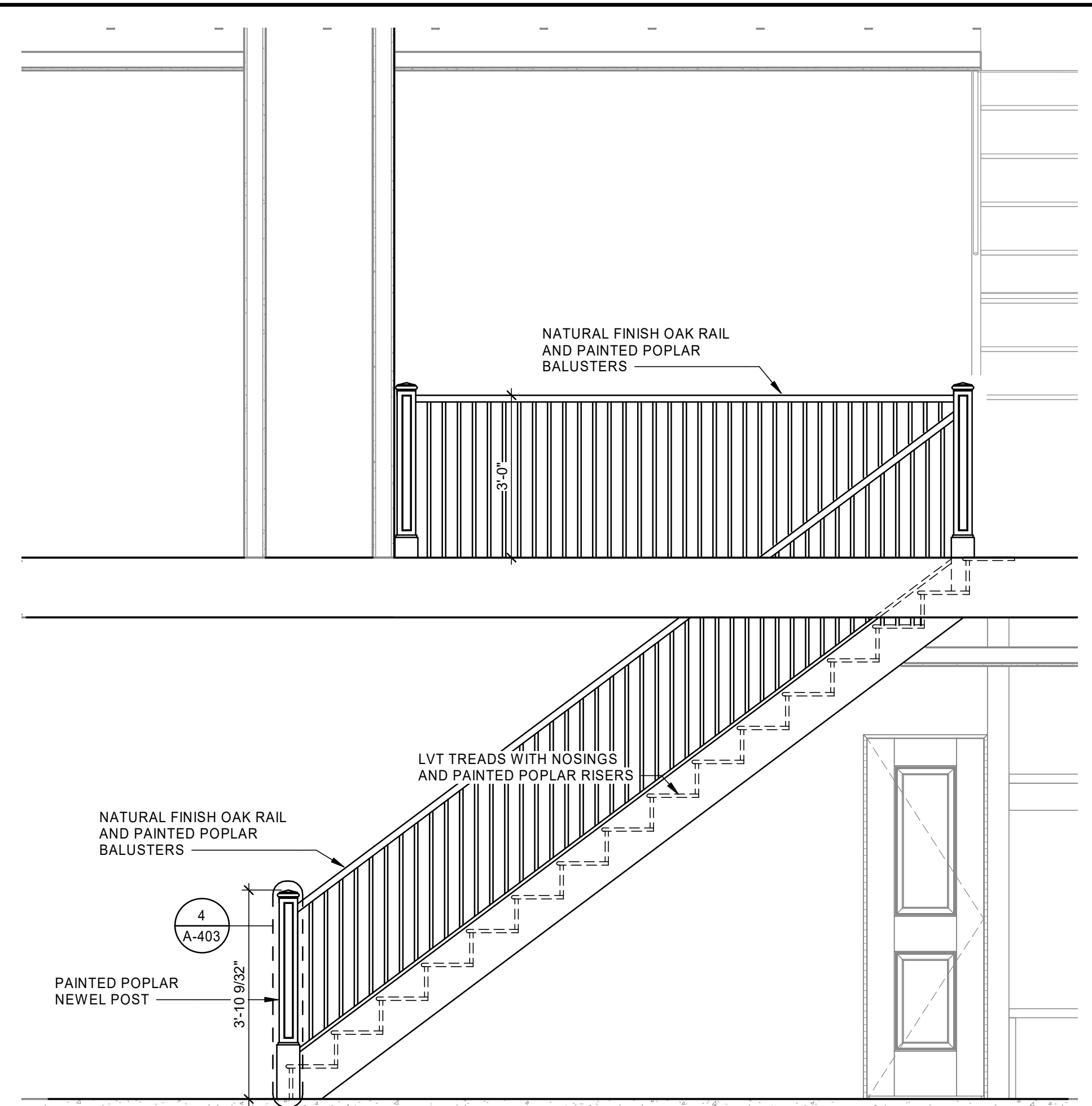
DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

STIPULATION FOR REUSE

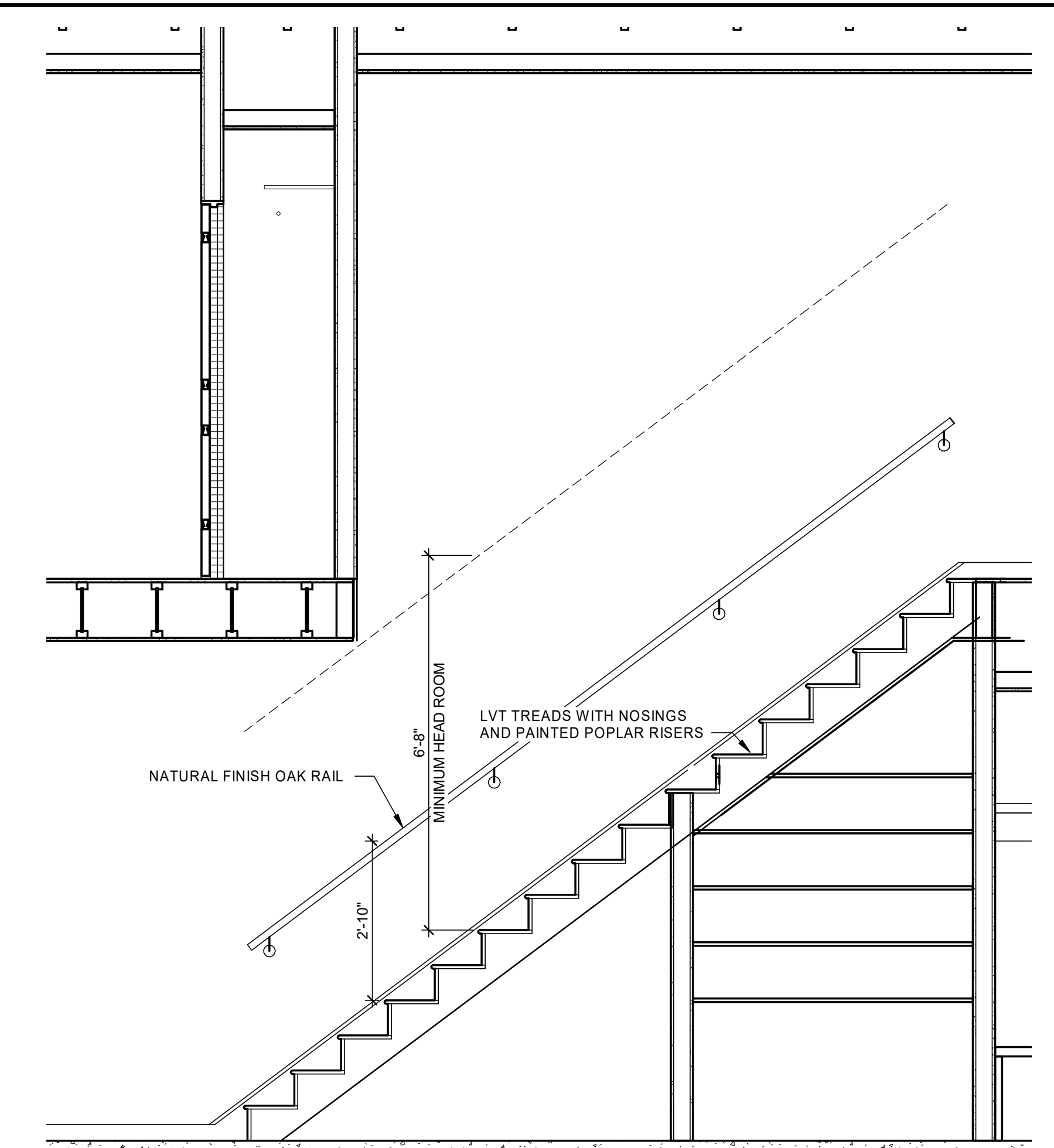
THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.



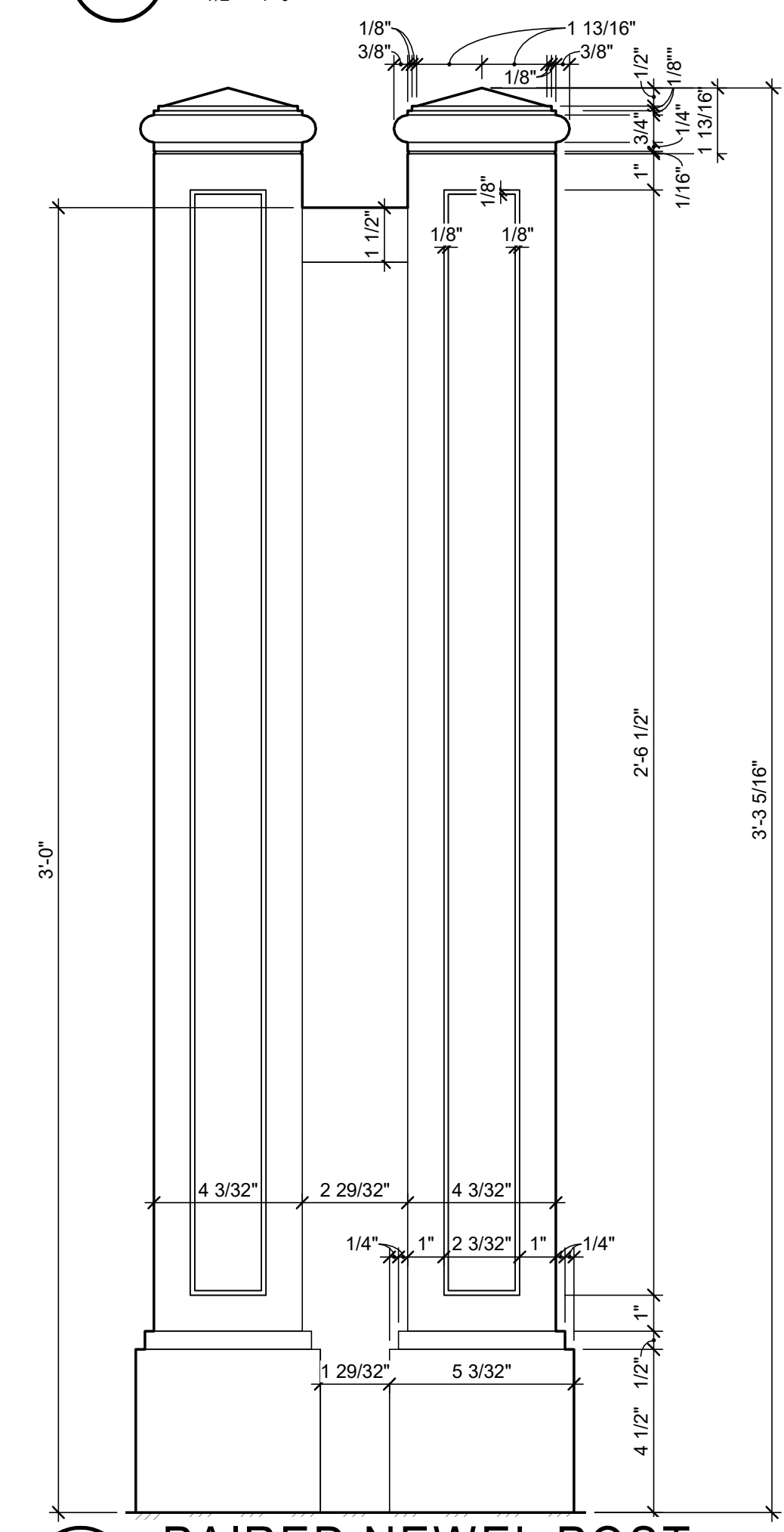
9 TYP. STAIR SECTION TOWARD BALUSTRADE  
1/2" = 1'-0"



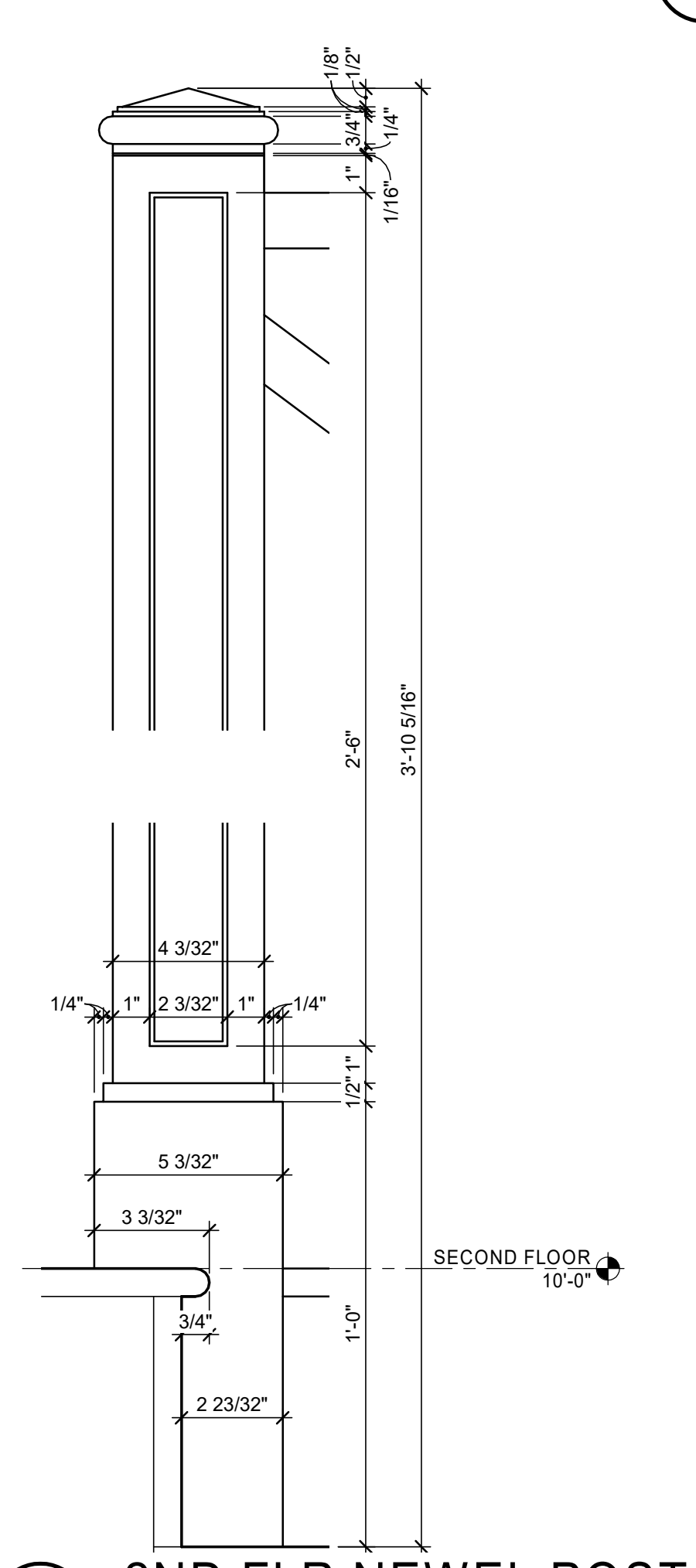
8 TYP. STAIR ELEVATION  
1/2" = 1'-0"



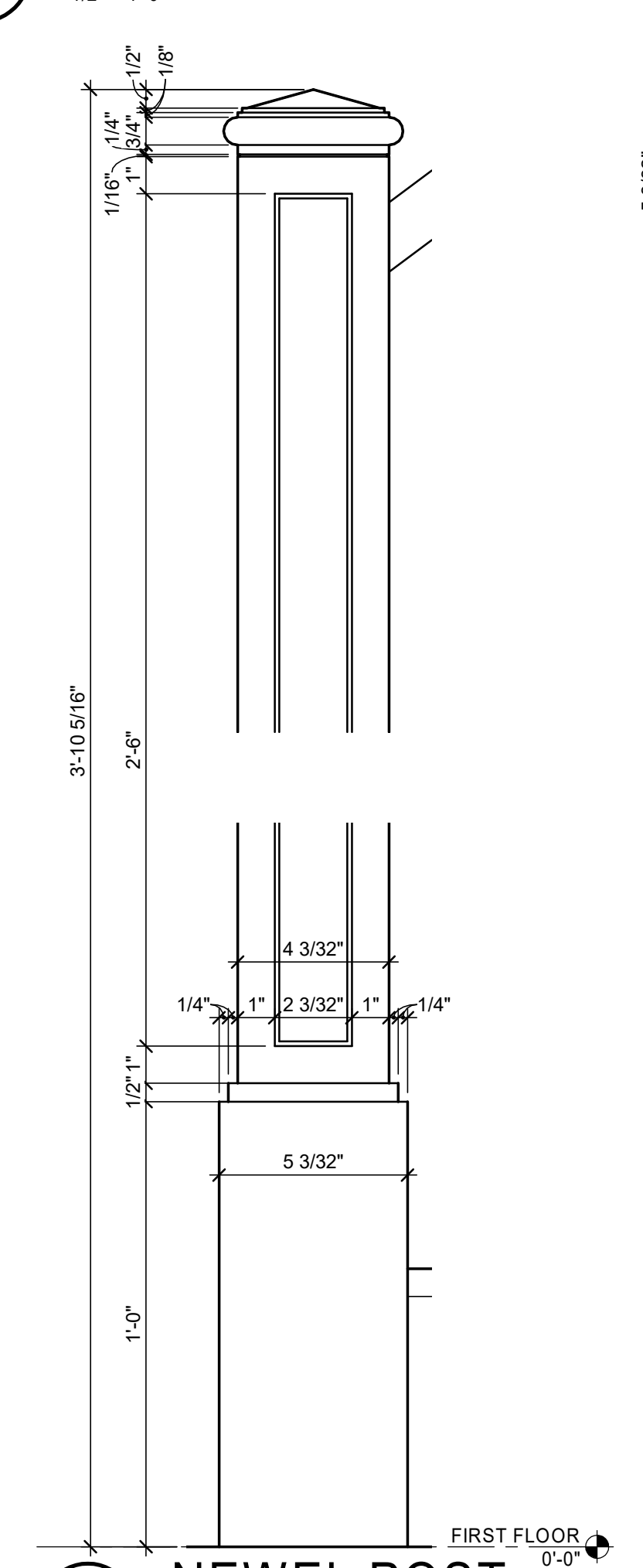
7 TYP. STAIR SECTION TOWARD WALL  
1/2" = 1'-0"



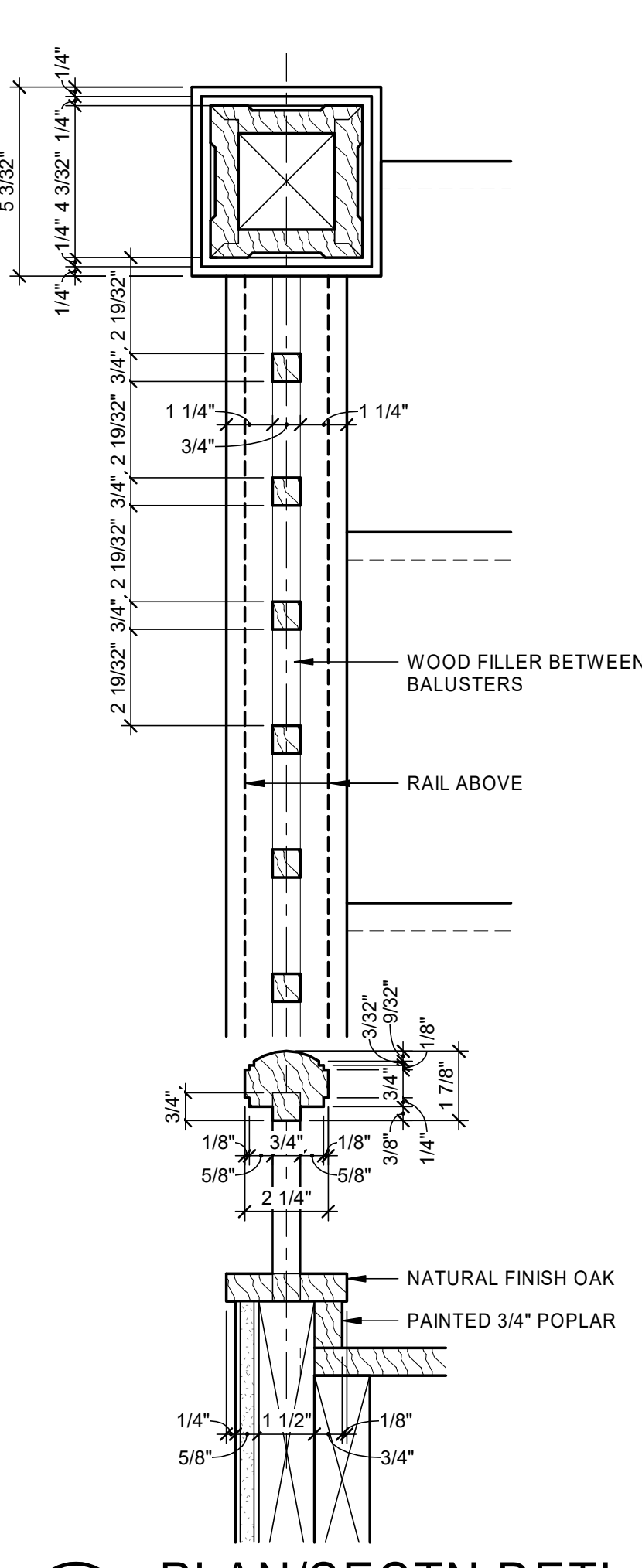
6 PAIRED NEWEL POST  
3" = 1'-0"



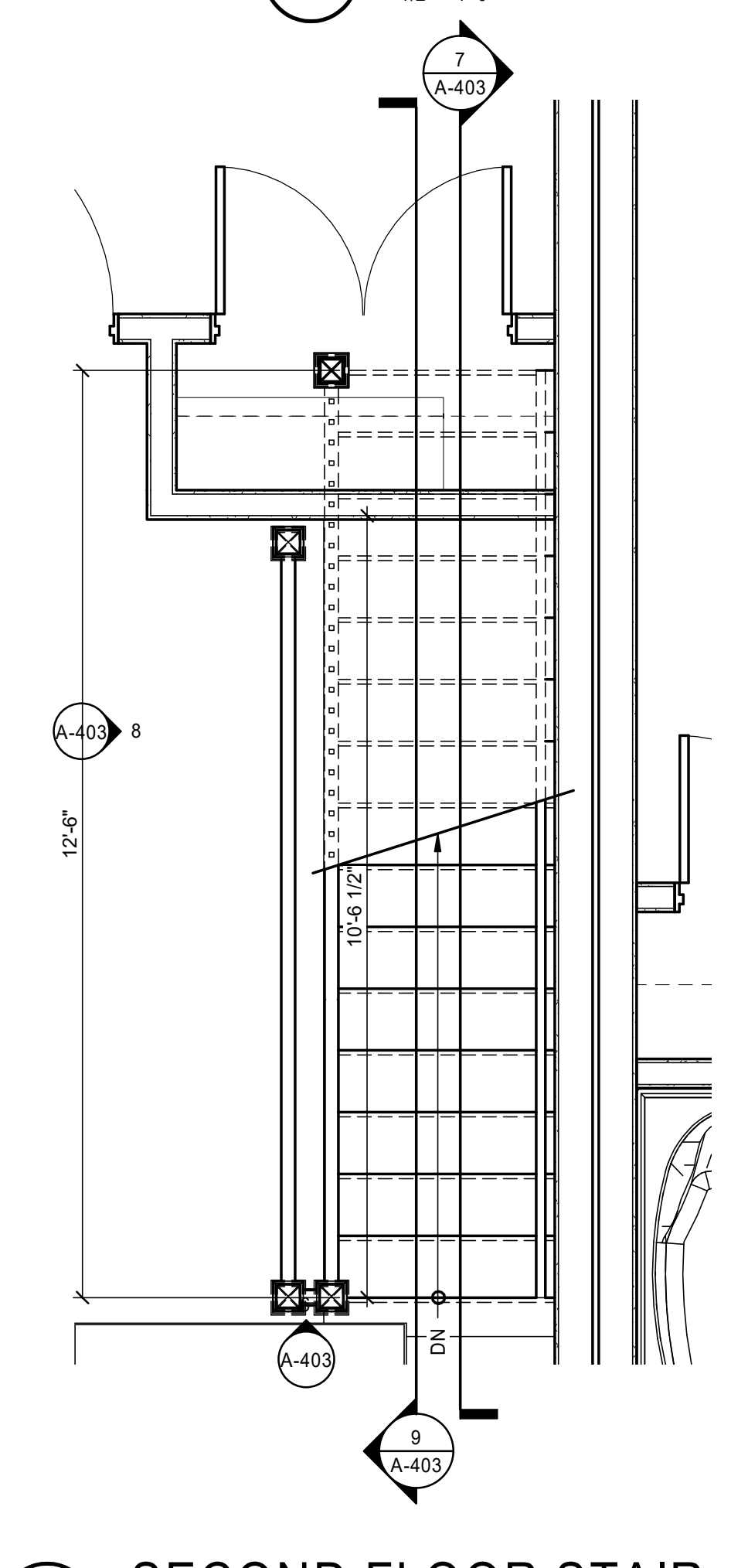
5 2ND FLR NEWEL POST  
3" = 1'-0"



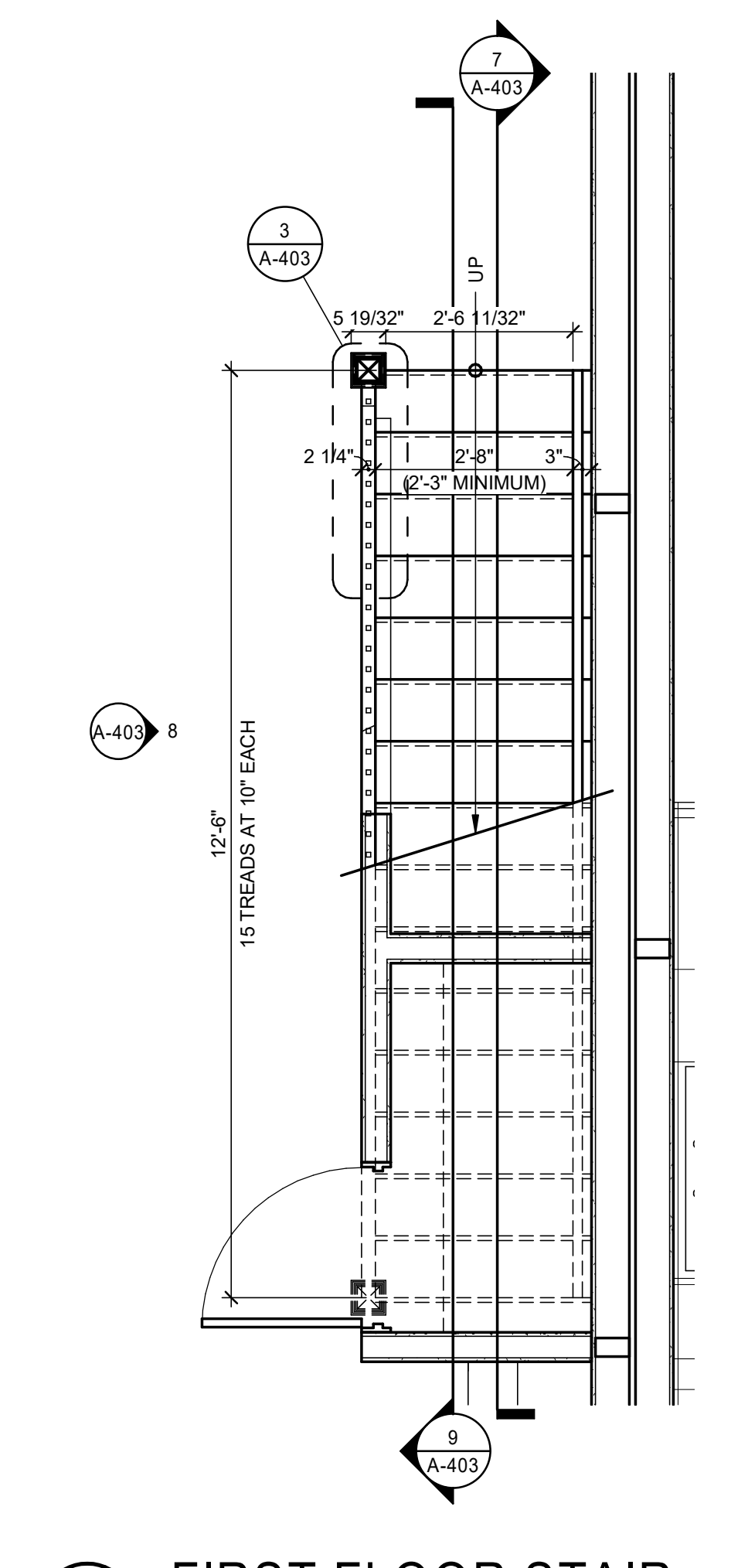
4 NEWEL POST  
3" = 1'-0"



3 PLAN/SECTN DETL  
3" = 1'-0"



2 SECOND FLOOR STAIR  
1/2" = 1'-0"



1 FIRST FLOOR STAIR  
1/2" = 1'-0"

PHASE 1 AND PHASE 2

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

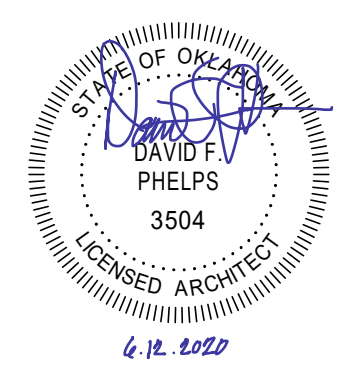
NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: BLG

SHEET NAME  
STAIR PLAN AND SECTIONS

SHEET NUMBER  
A-403





DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

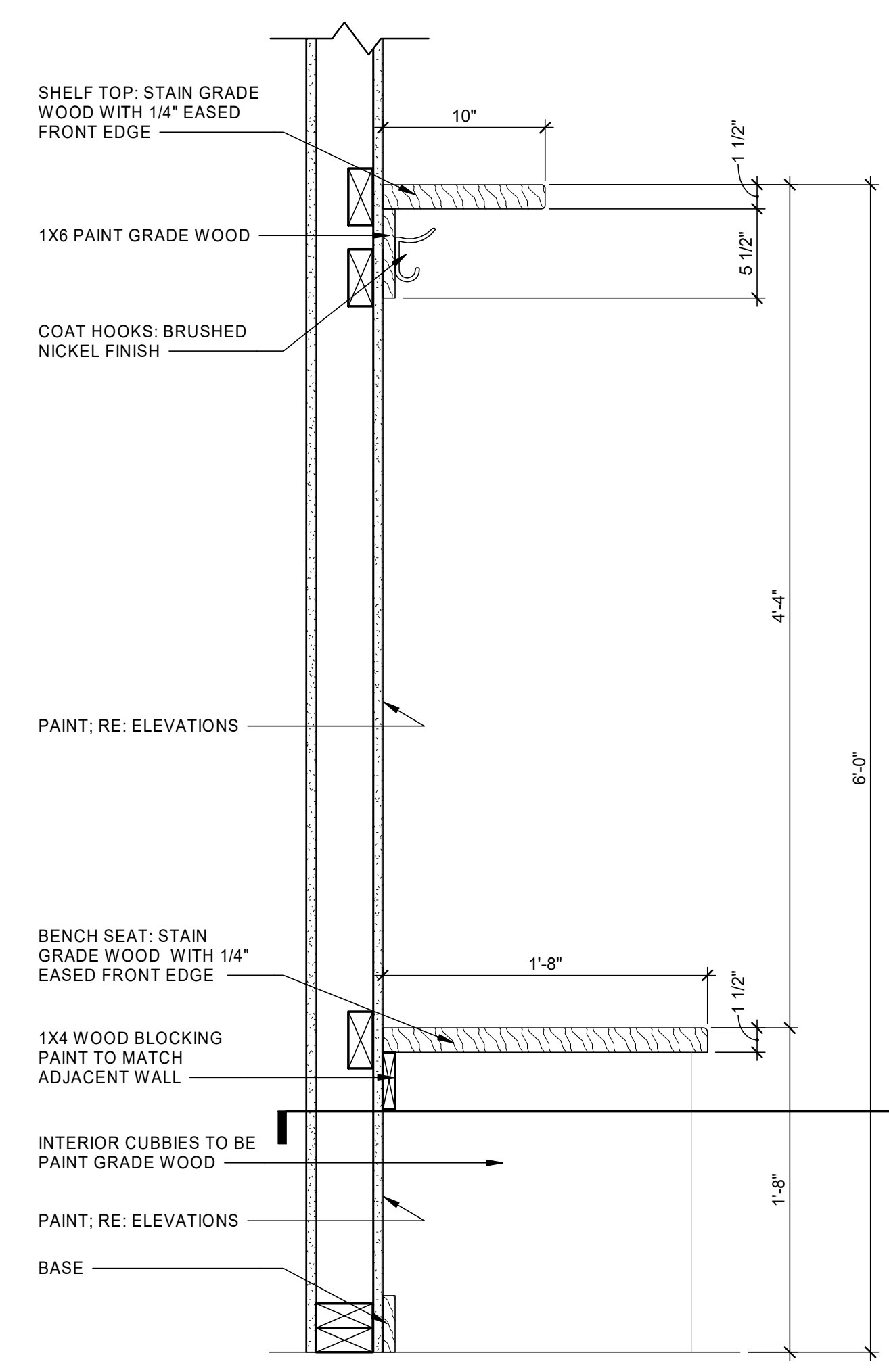
**STIPULATION FOR REUSE**

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

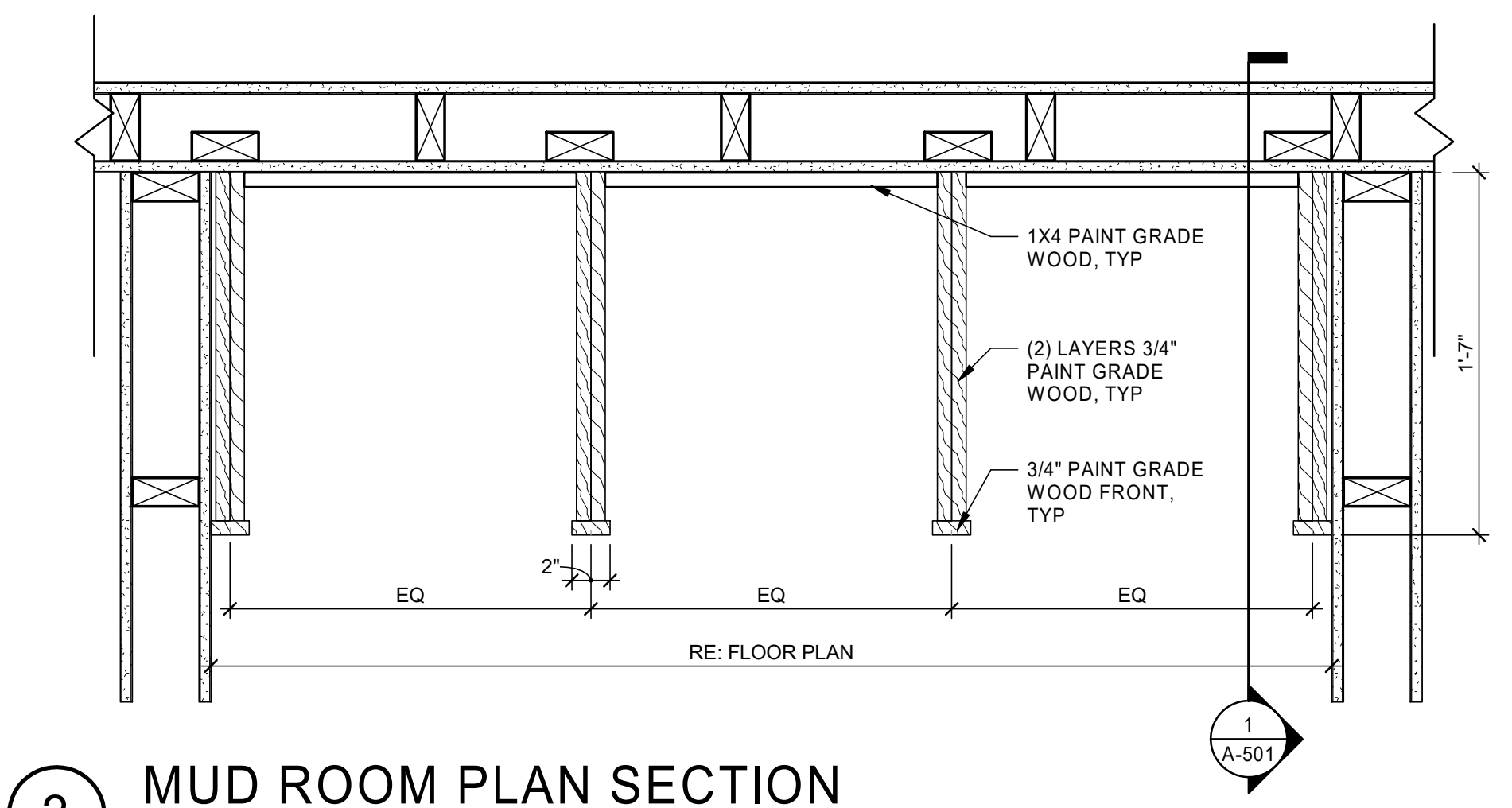
**SPECIALITY AND EQUIPMENT SCHEDULE**

MARK	DESCRIPTION	MANUFACTURER	MODEL	RESPONSIBILITY
ATTIC LADDER		PRECISION LADDERS	S2126-B-22.5	CPCI
<b>10 TOILET ACCESSORIES</b>				
GB36	36" STRAIGHT GRAB BAR	BOBRICK	B-5806x36	CPCI
GB42	42" STRAIGHT GRAB BAR	BOBRICK	B-5806x42	CPCI
M2	MIRROR	---	24" X 36"; INSTALL WITH 1X2 WOOD TRIM; FINISH: PAINT, PT2	CPCI
SCR1	SHOWER CURTAIN ROD	PROFLO SHOWER ROD	PFSCR60	CPCI
SD1	SHOWER DOOR	TILE REDI	11R0BF02867	CPCI
TH1	TOWEL RING	PROFLO TOWEL RING	PF8951 BN BRUSHED NICKEL	CPCI
TR1	TOWEL BAR	PROFLO TOWEL BAR	PF8909BN BRUSHED NICKEL	CPCI
TTD1	TOILET TISSUE DISPENSER	PROFLO PAPER HOLDER	PF8931BN BRUSHED NICKEL	CPCI
<b>11 RESIDENTIAL APPLIANCES</b>				
D1	DRYER	WHIRLPOOL	WED4850HW / PROVIDE WITH 4-WIRE 30A PLUG	CPCI
DW1	DISHWASHER	WHIRLPOOL	WDF370PAHB	CPCI
DW2	DISHWASHER ADA	GE	GDT225SGLBB	CPCI
MW1	MICROWAVE/HOOD COMBO	WHIRLPOOL	WMH32519HB	CPCI
MW2	MICROWAVE	WHIRLPOOL	MWC50522HB WITH 27" TRIM KIT	CPCI
REF1	REFRIGERATOR	WHIRLPOOL	WRT148FZDB	CPCI
RH1	RANGE HOOD	GE	JV536H WITH WALL SWITCH	CPCI
RO1	RANGE	WHIRLPOOL	WFG320M08B	CPCI
RO2	RANGE ADA	WHIRLPOOL	WEG515S0FB	CPCI
W1	TOP LOAD WASHER	WHIRLPOOL	WTW4855HW	CPCI
<b>12 FURNISHINGS</b>				
WB1	WINDOW BLINDS	HUNTER DOUGLAS	MODERN PRECIOUS METALS; SIMPLIFIT; COLOR: TBD DURING SUBMITTALS	CPCI

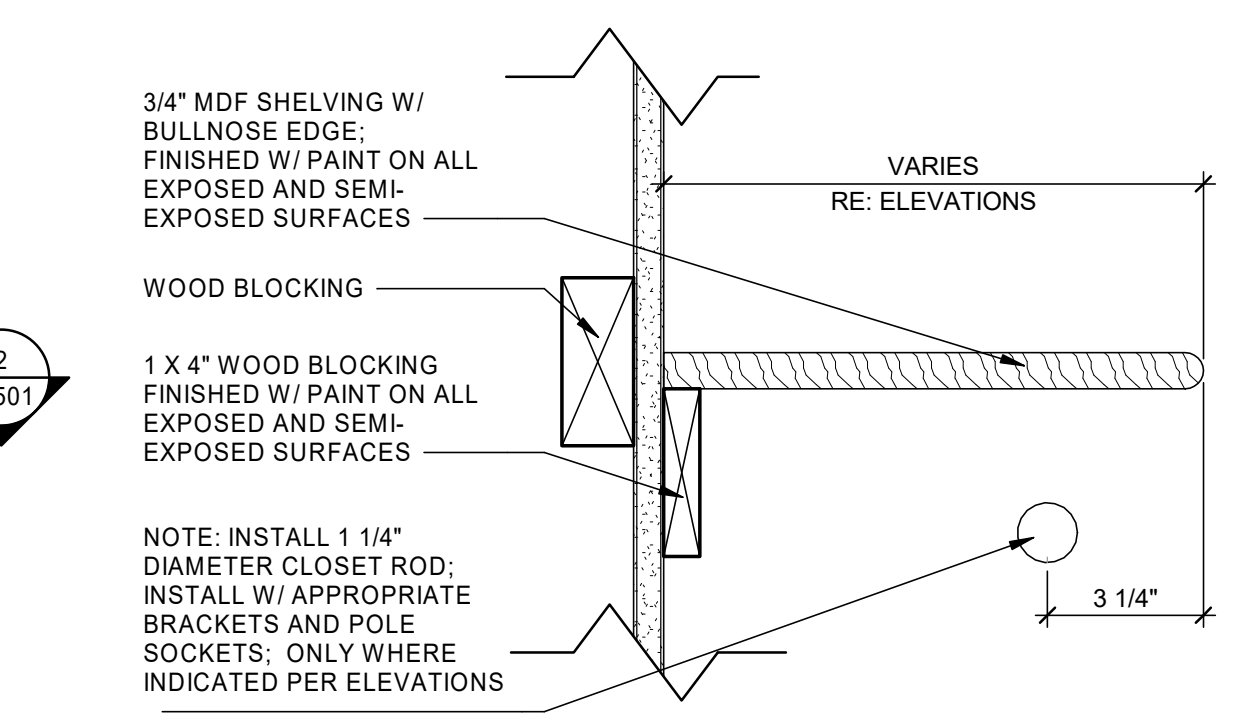
NOTE: REFER TO AS101 FOR STAINLESS STEEL APPLIANCE LOCATIONS.



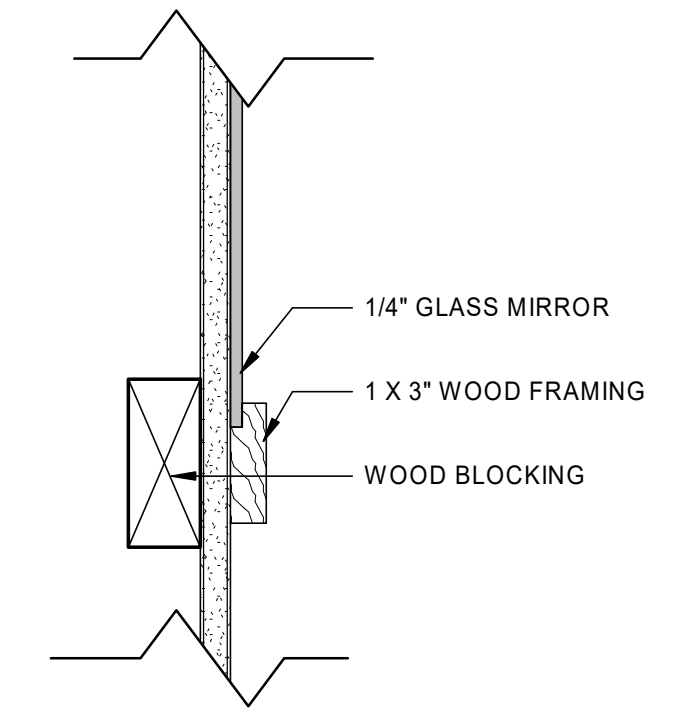
**1 MUD ROOM**  
1 1/2" = 1'-0"



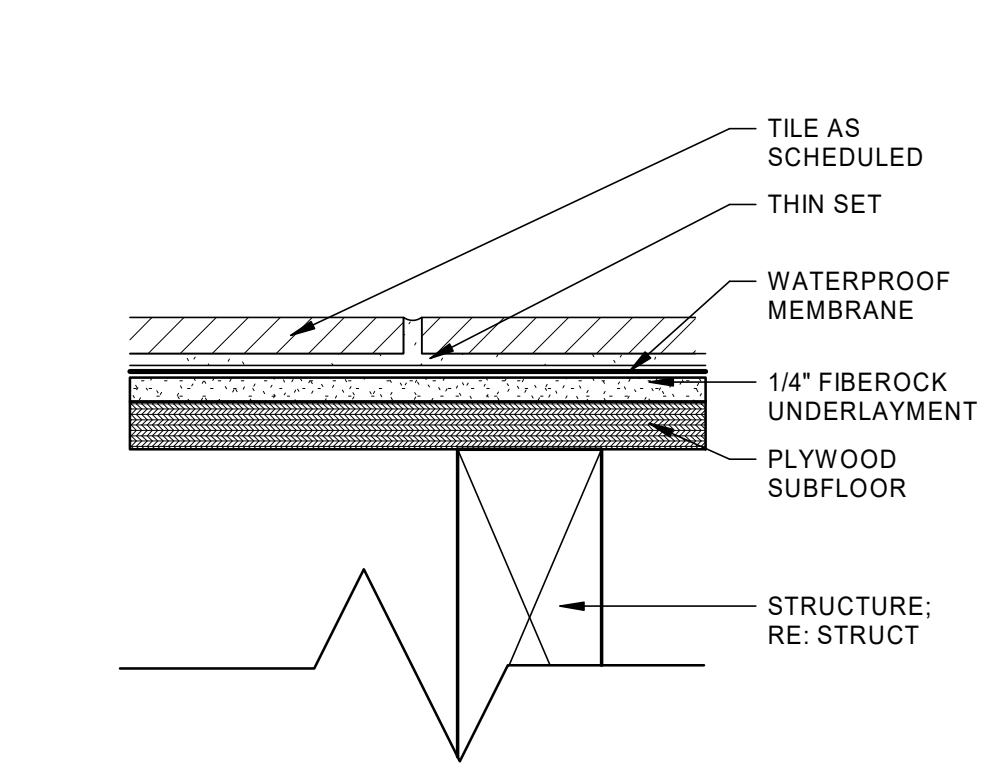
**2 MUD ROOM PLAN SECTION**  
1 1/2" = 1'-0"



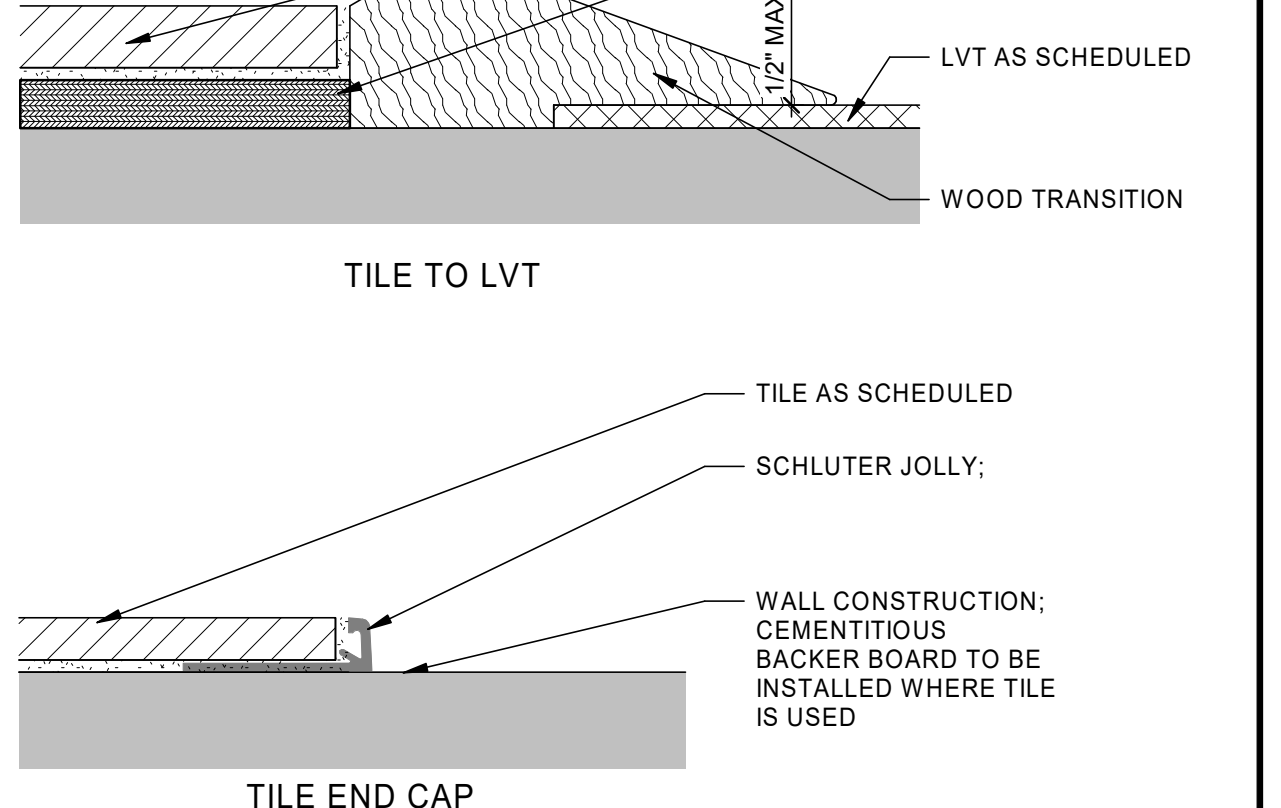
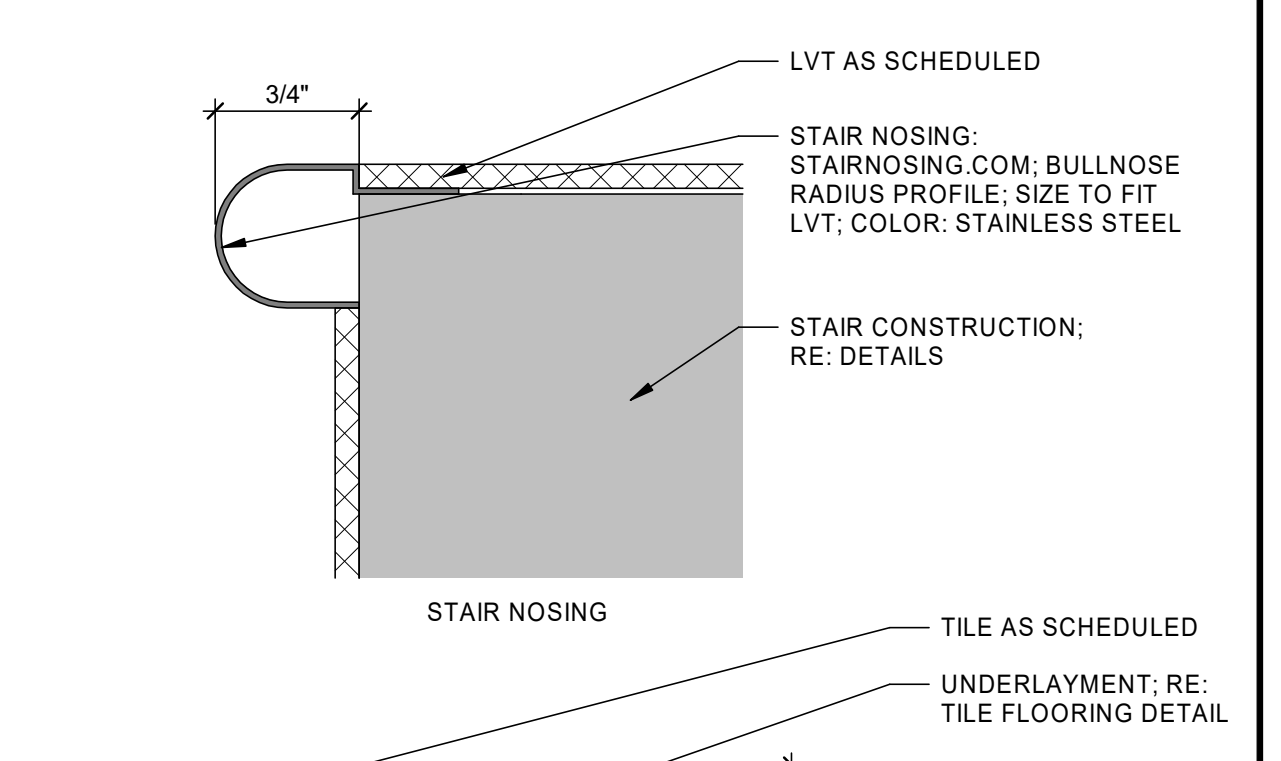
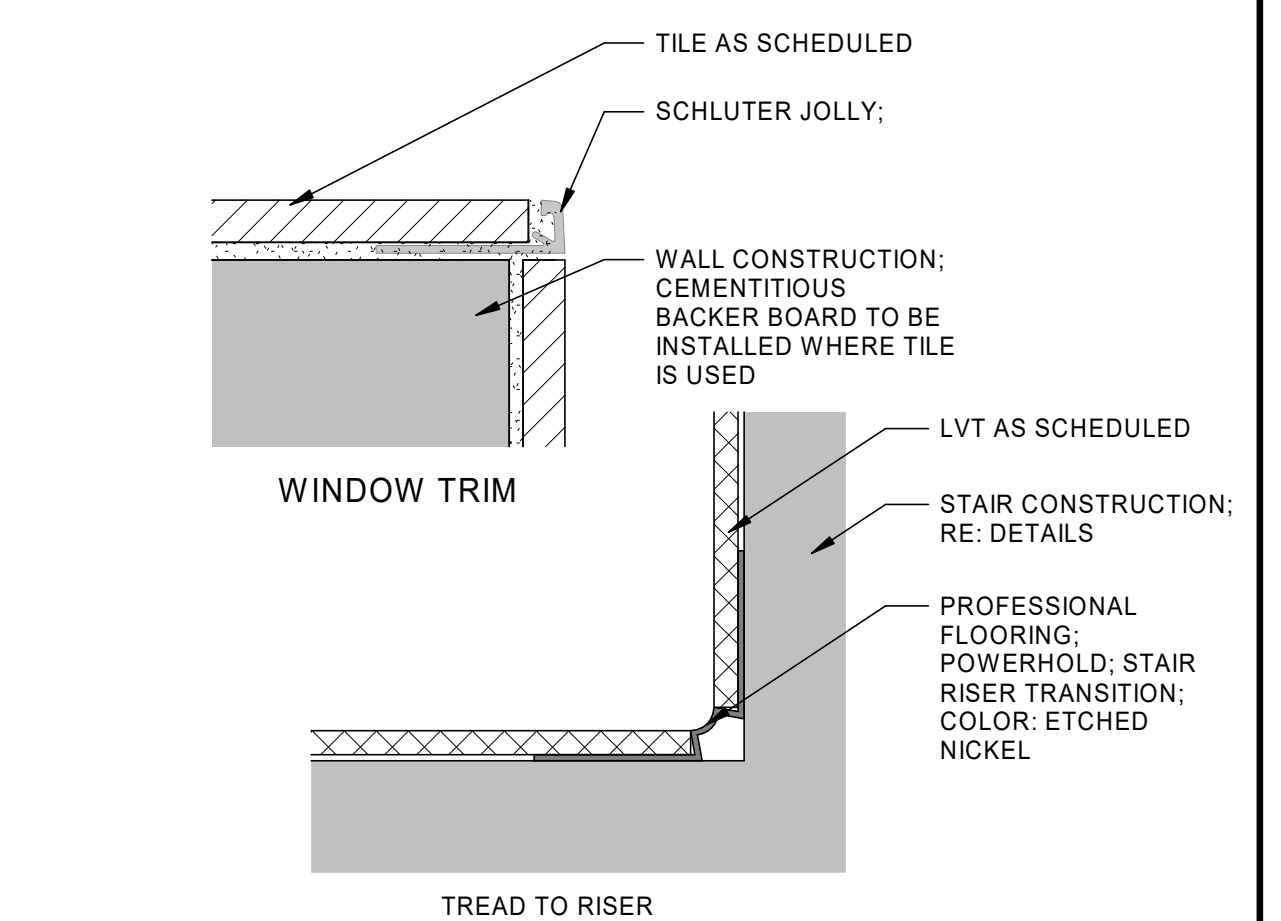
**3 TYPICAL SHELVING**  
3" = 1'-0"



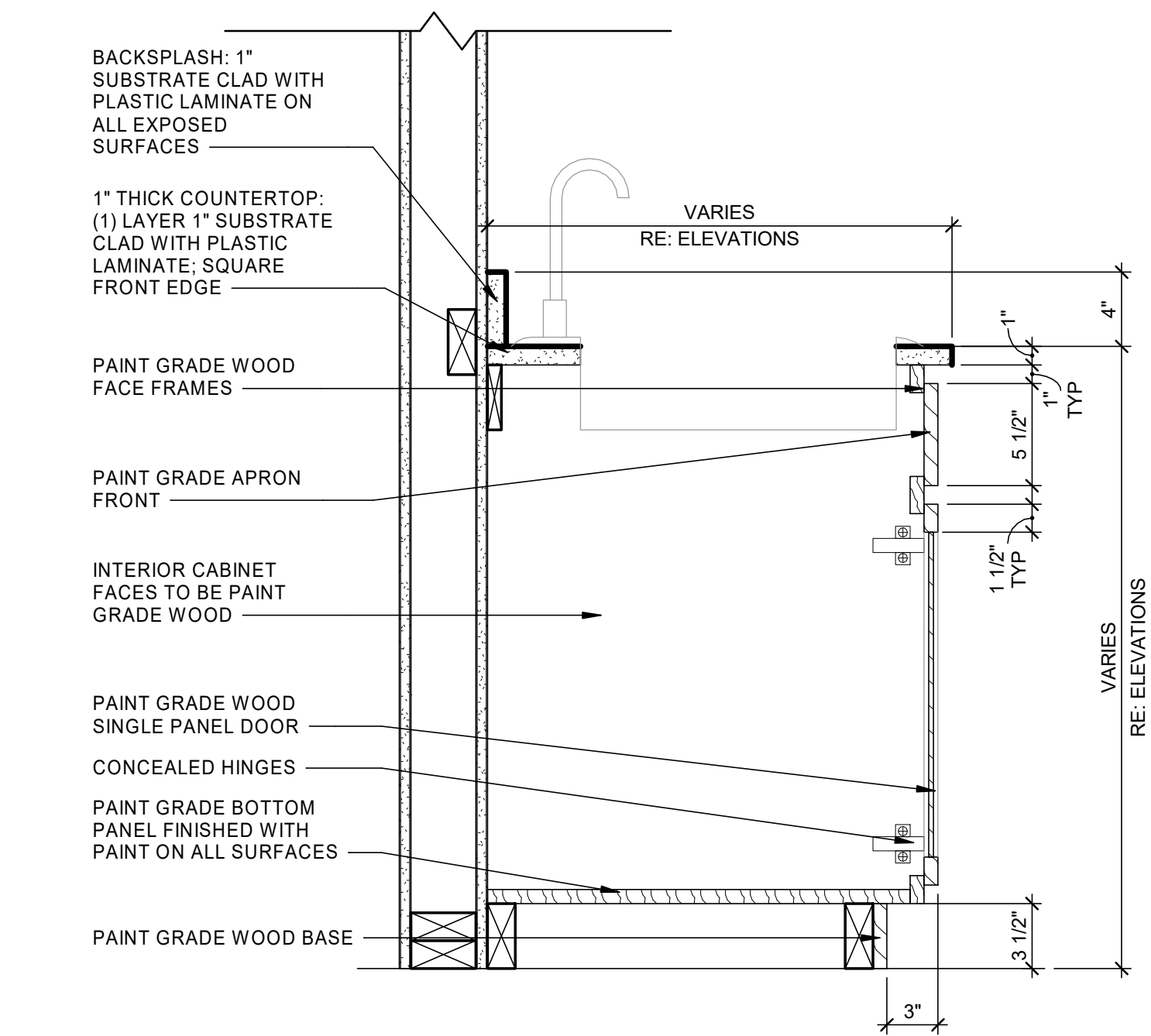
**4 MIRROR DETAIL**  
3" = 1'-0"



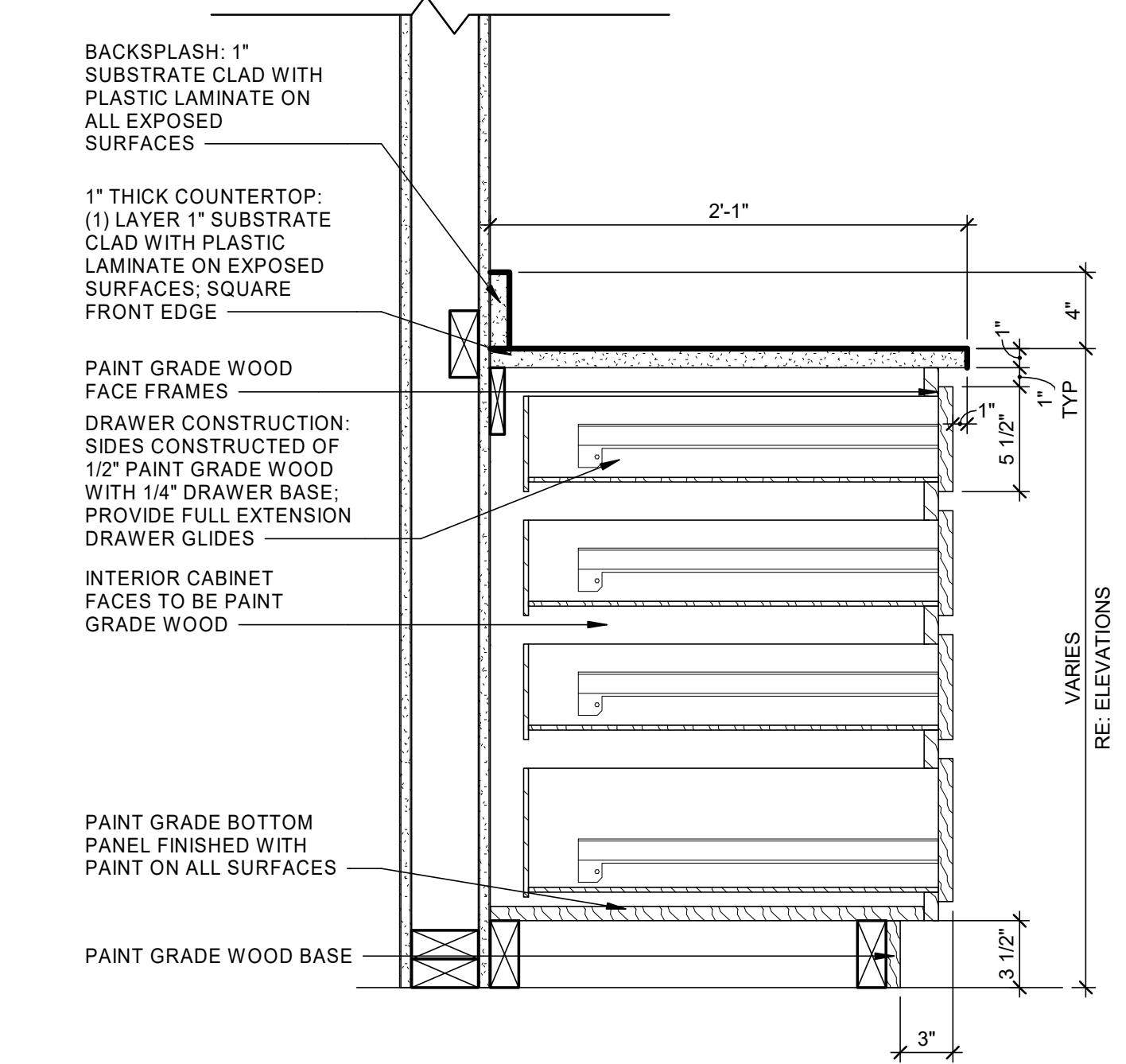
**5 TILE FLOORING DETAIL**  
6" = 1'-0"



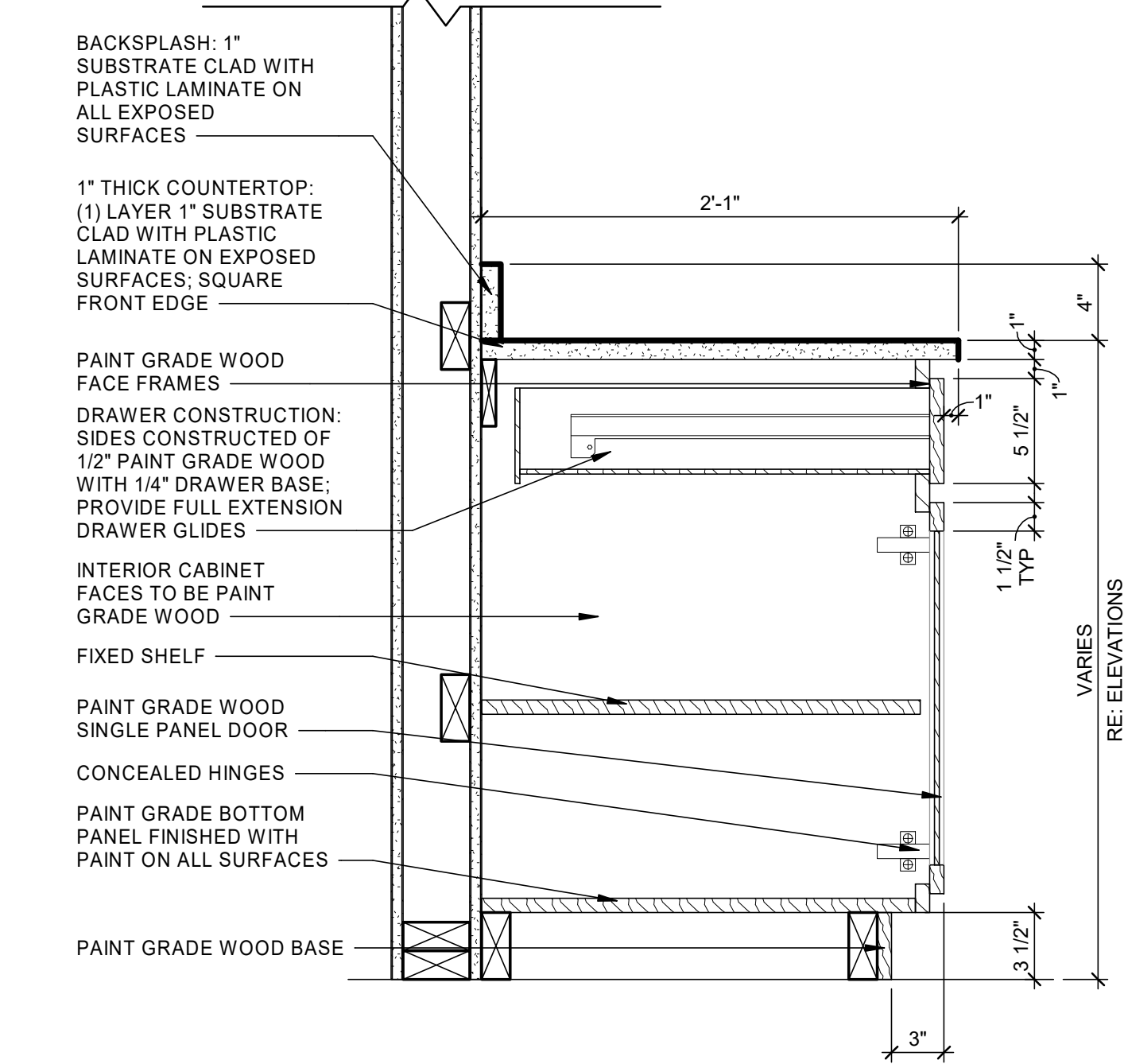
**9 TRANSITION DETAILS**  
NOT TO SCALE



**6 TYPICAL SINK UNIT**  
1 1/2" = 1'-0"



**7 4 DRAWER BASE CABINET**  
1 1/2" = 1'-0"



**8 TYPICAL BASE CABINET**  
1 1/2" = 1'-0"

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

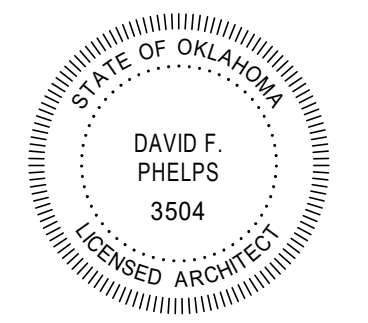
NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: EEW

SHEET NAME  
INTERIOR DETAILS AND SCHEDULES

SHEET NUMBER

**A-501**



DAVID F. PHELPS, AIA  
ARCHITECT OF RECORD

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
	06/12/2020	PERMIT SET - PHASE 1

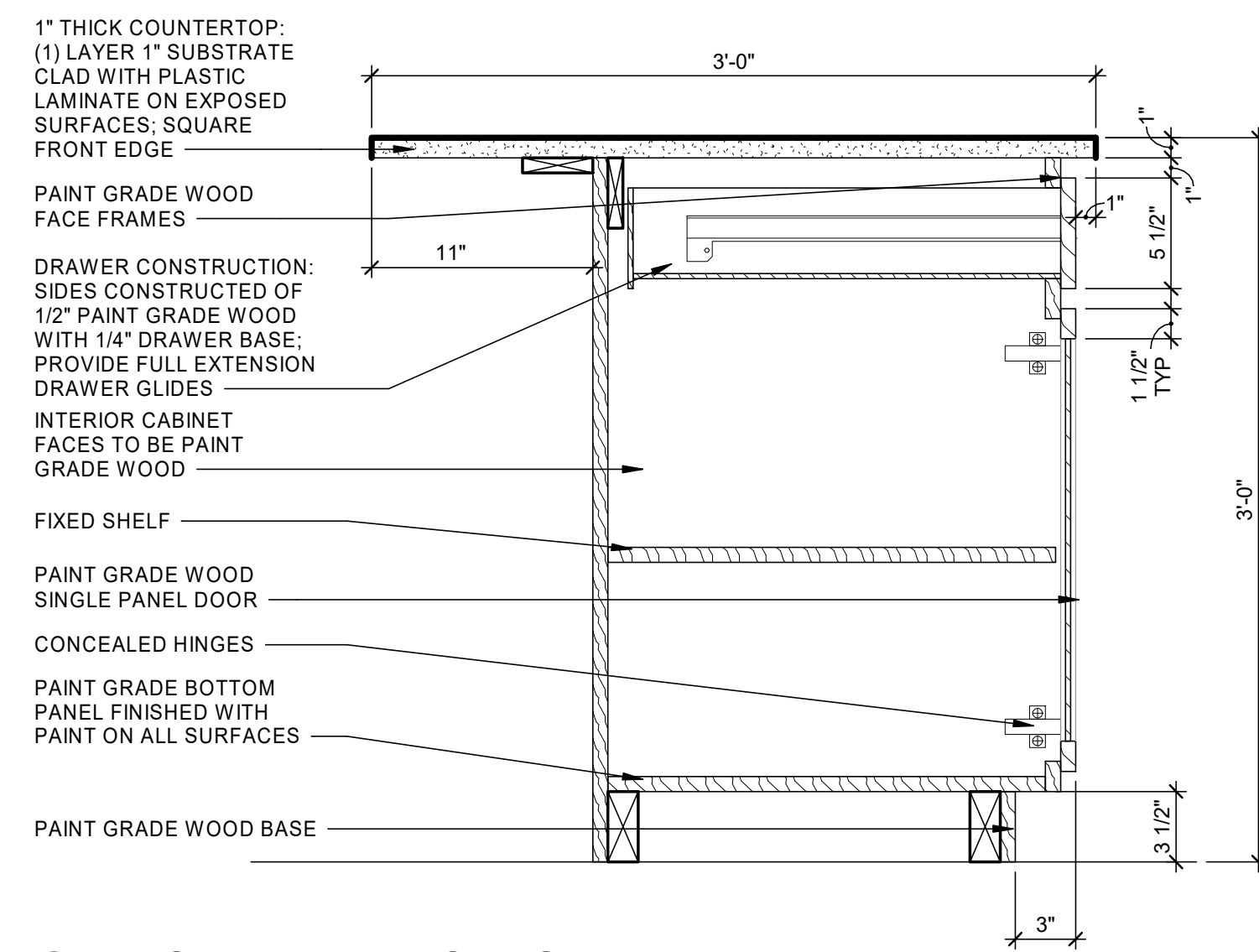
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: LFG  
DRAWN BY: EEW

SHEET NAME

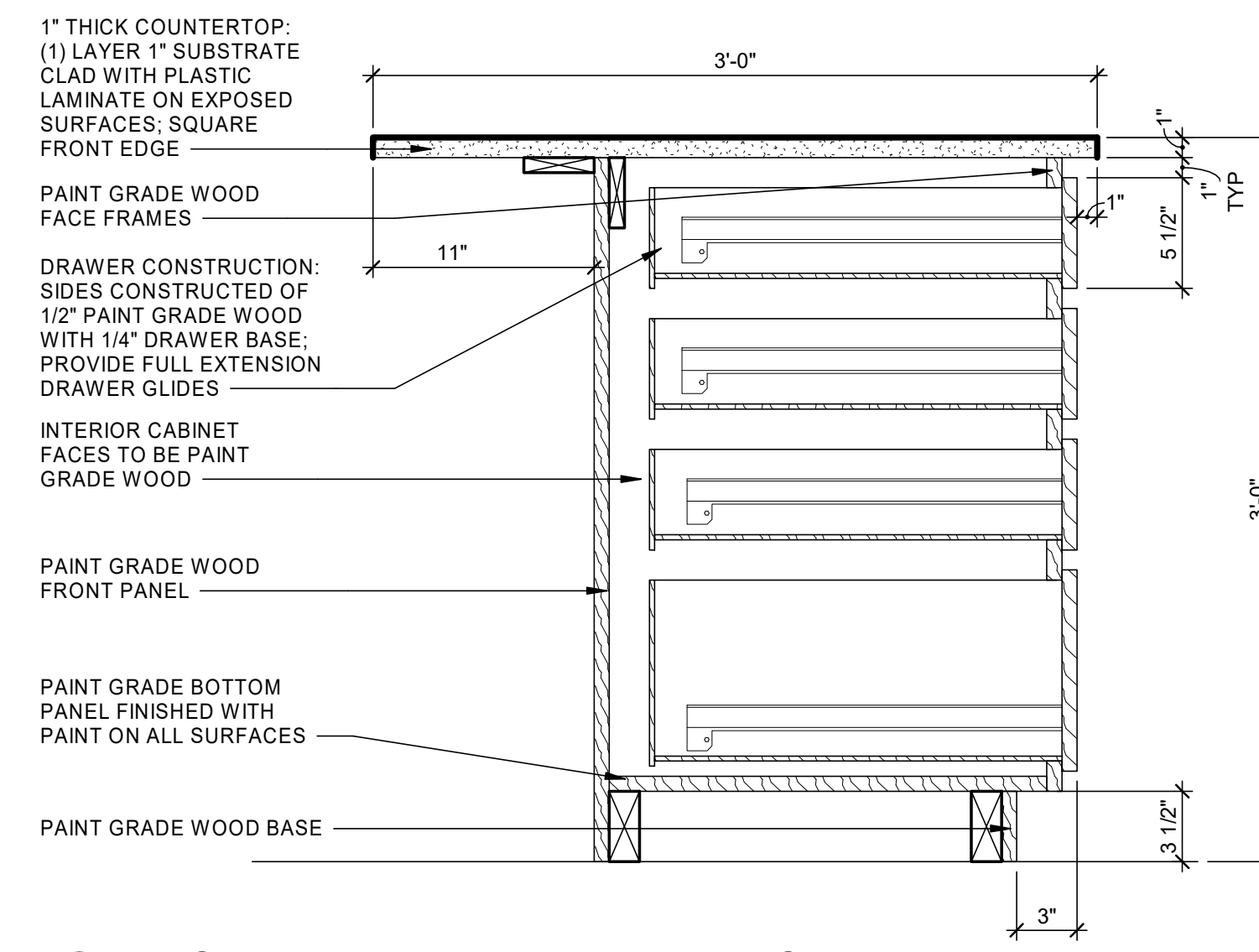
MILLWORK DETAILS

SHEET NUMBER

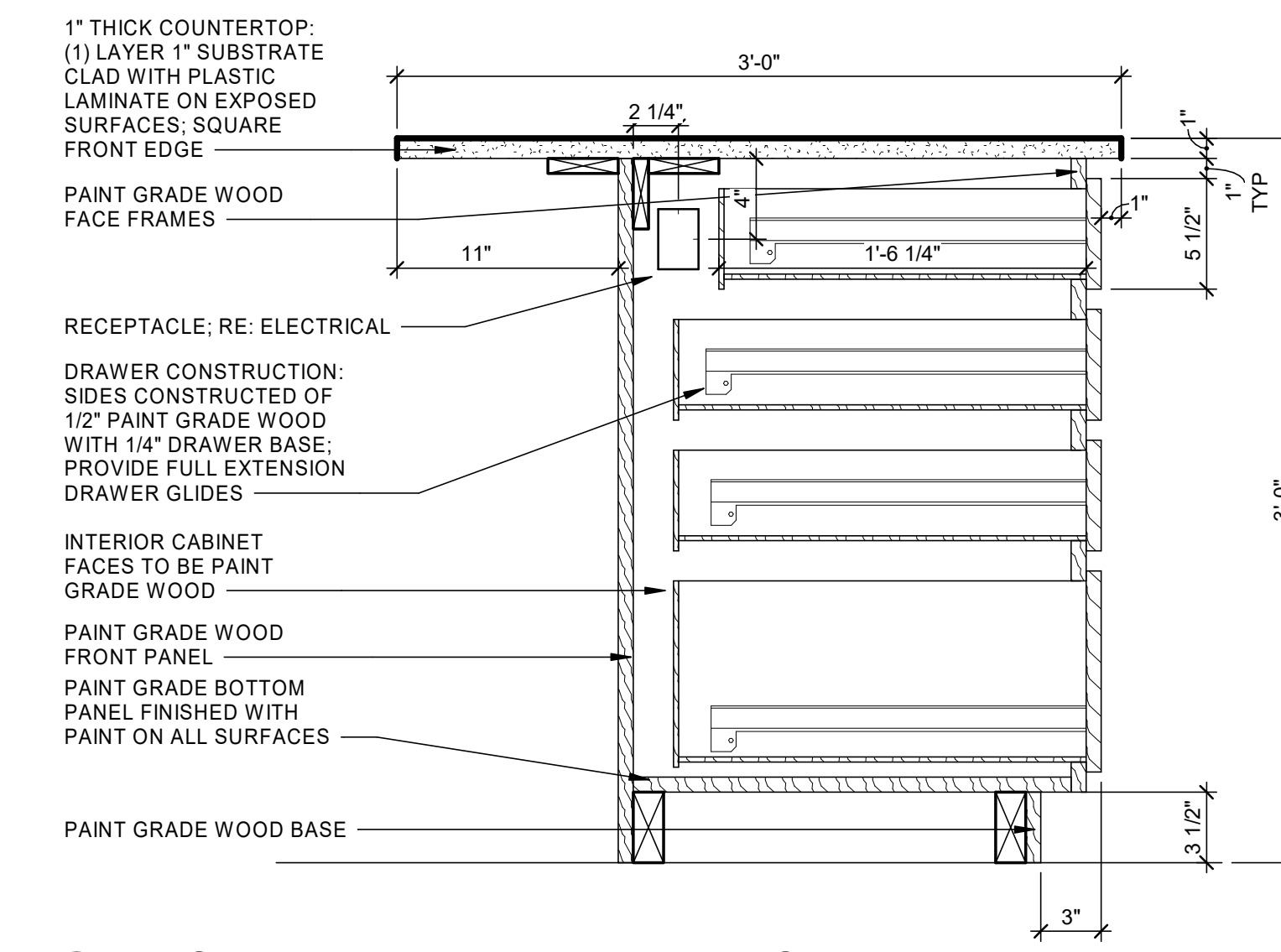
A-502



**1 ISLAND BASE CABINET**  
1 1/2" = 1'-0"



**2 ISLAND 4 DRAWER BASE 1**  
1 1/2" = 1'-0"

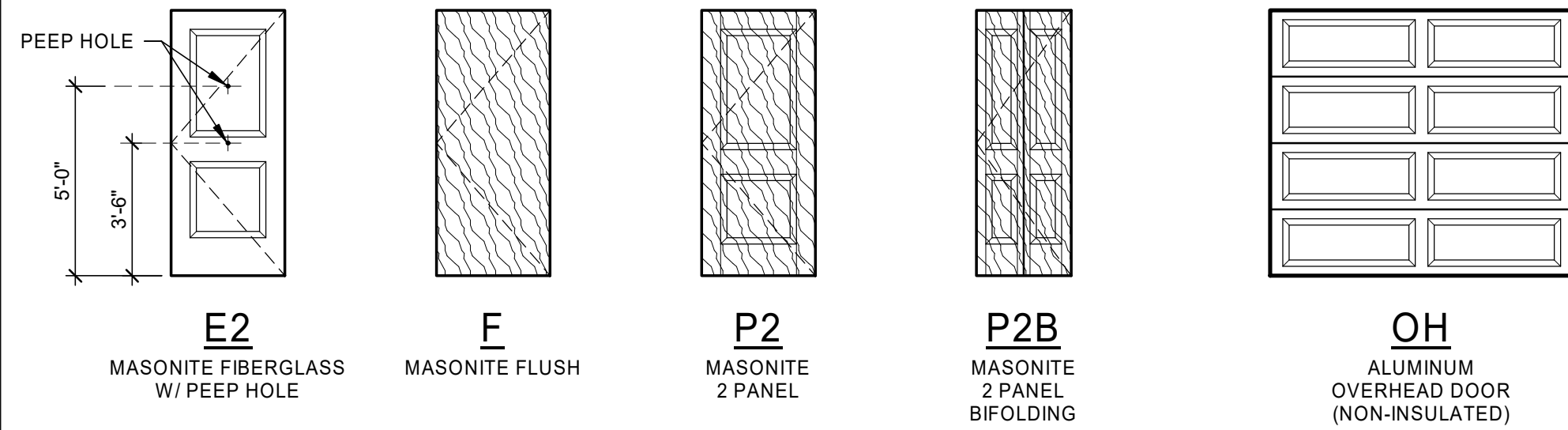


**3 ISLAND 4 DRAWER BASE 2**  
1 1/2" = 1'-0"

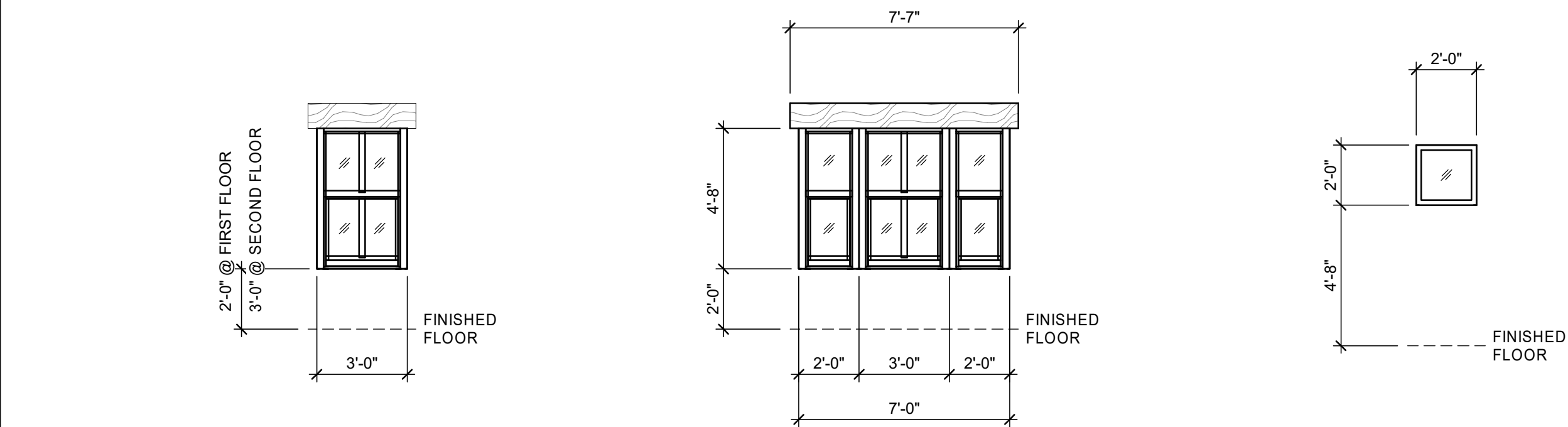
**DOOR AND FRAME SCHEDULE**

TYPE	LOCATION	NO	DOOR			MATL	EL	FRAME			FIRE RATING	HDW SET NO	NOTES	QTY
			SIZE	HT	THK			HEAD	JAMB	THRES				
1	ENTRY	1	3'-0"	6'-8"	1 3/8"	HM	E2	WD					MASONITE FIBERGLASS W/ PEEP HOLE. DOUBLE PEEP HOLE FOR FULLY ACCESSIBLE UNIT. SINGLE PEEP HOLE AT 60" AFF FOR ALL OTHER UNITS	14
2	GARAGE ENTRY	1	3'-0"	6'-8"	1 3/8"	WD	P2	WD						8
3	BEDROOM / BATHROOM	1	3'-0"	6'-8"	1 3/8"	WD	P2	WD						46
4	MECHANICAL	1	2'-2"	6'-8"	1 3/8"	WD	F	WD						27
5	MECHANICAL WITH LOUVER	1	2'-2"	6'-8"	1 3/8"	WD	F	WD						1
6	CLOSET SINGLE	1	2'-2"	6'-8"	1 3/8"	WD	P2	WD						16
7	CLOSET SINGLE	1	3'-0"	6'-8"	1 3/8"	WD	P2	WD						1
8	CLOSET PAIR	PR	2'-0"	6'-8"	1 3/8"	WD	P2	WD						24
9	CLOSET SMALL BIFOLDING	PR	1'-6"	6'-8"	1 3/8"	WD	P2B	WD						2
10	CLOSET LARGE BIFOLDING	PR	2'-0"	6'-8"	1 3/8"	WD	P2B	WD						4
11	UTILITY	PR	2'-6"	6'-8"	1 3/8"	WD	P2B	WD						10
12	GARAGE	1	8'-0"	7'-0"	2"	STEEL	OH	STEEL						7

NOTE: CONTRACTOR TO COORDINATE WITH OWNER DOOR HARDWARE REQUIREMENTS. DOOR HARDWARE IS OWNER PROVIDED AND CONTRACTOR INSTALLED (OPCI)



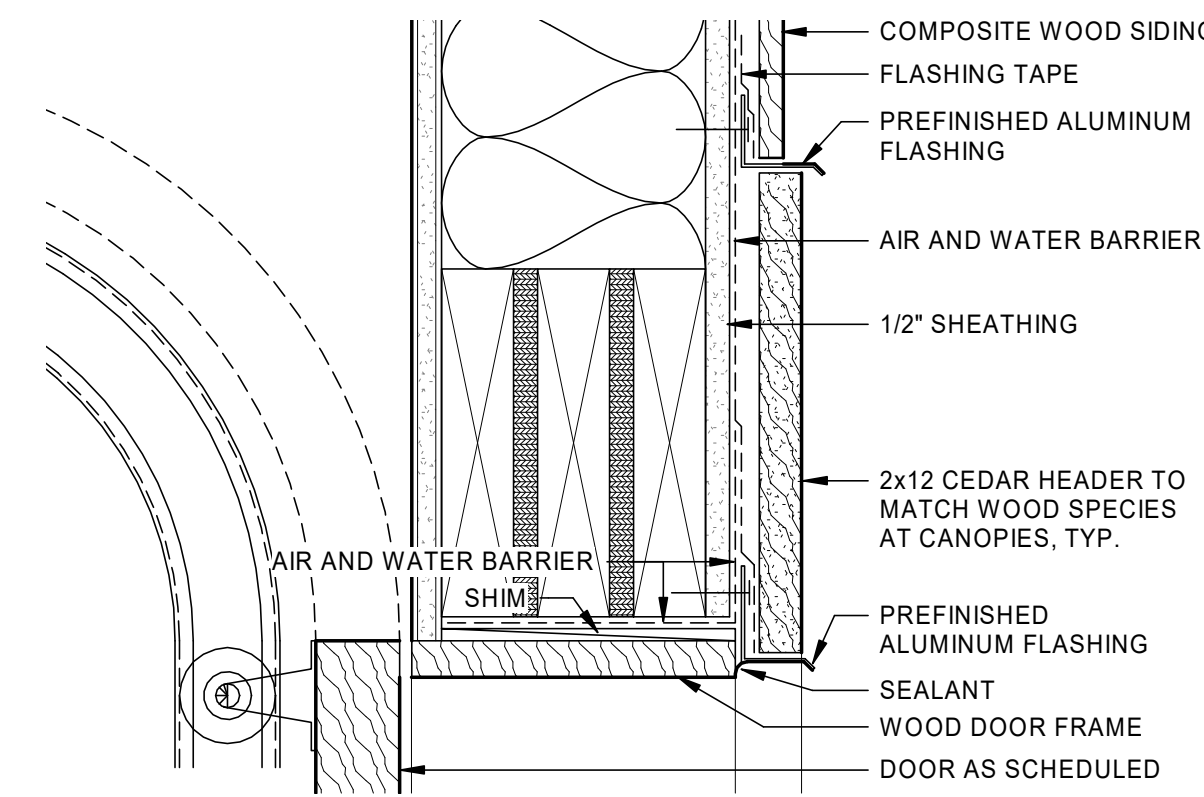
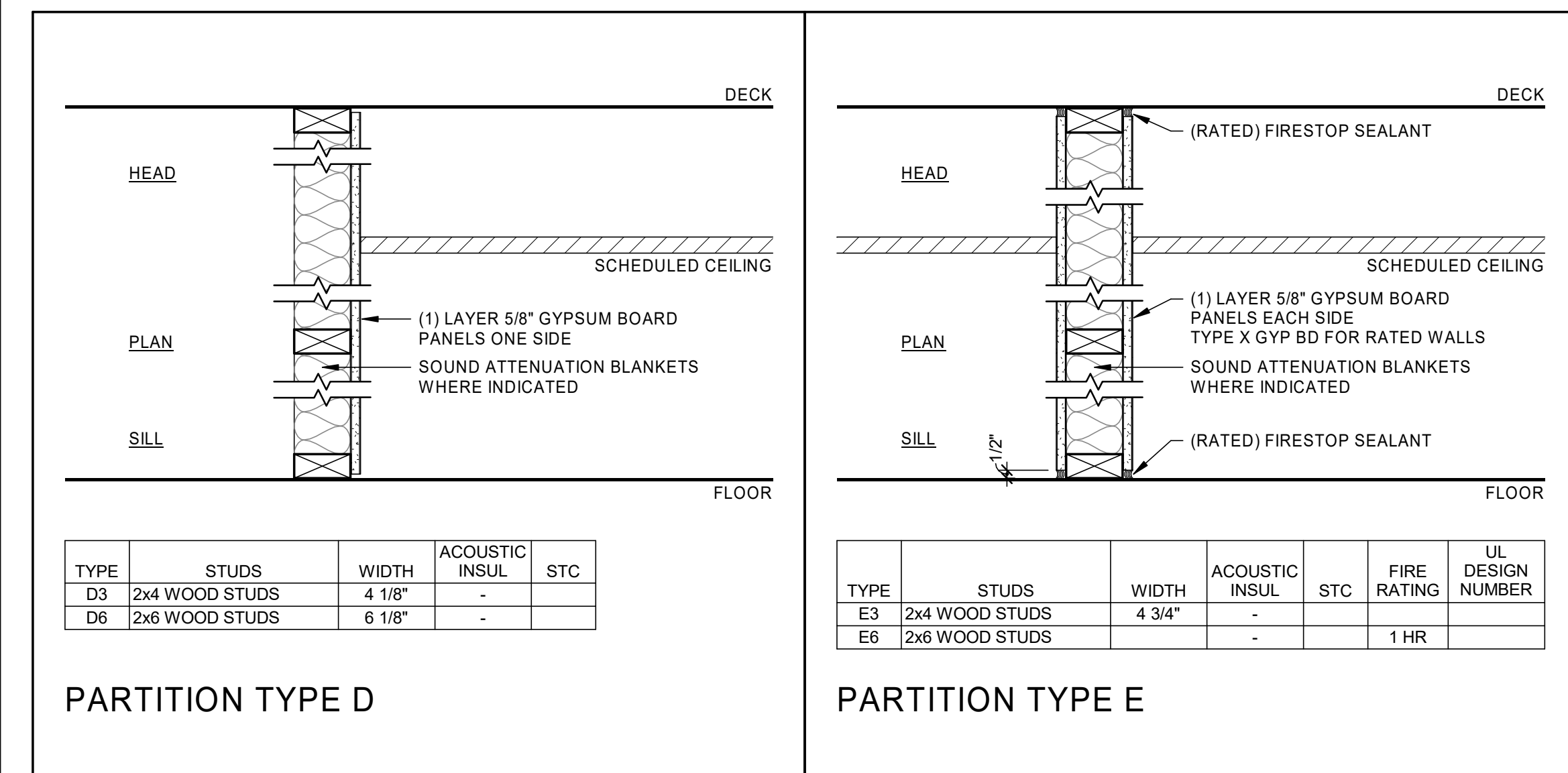
**1 DOOR ELEVATIONS**  
1/4" = 1'-0"



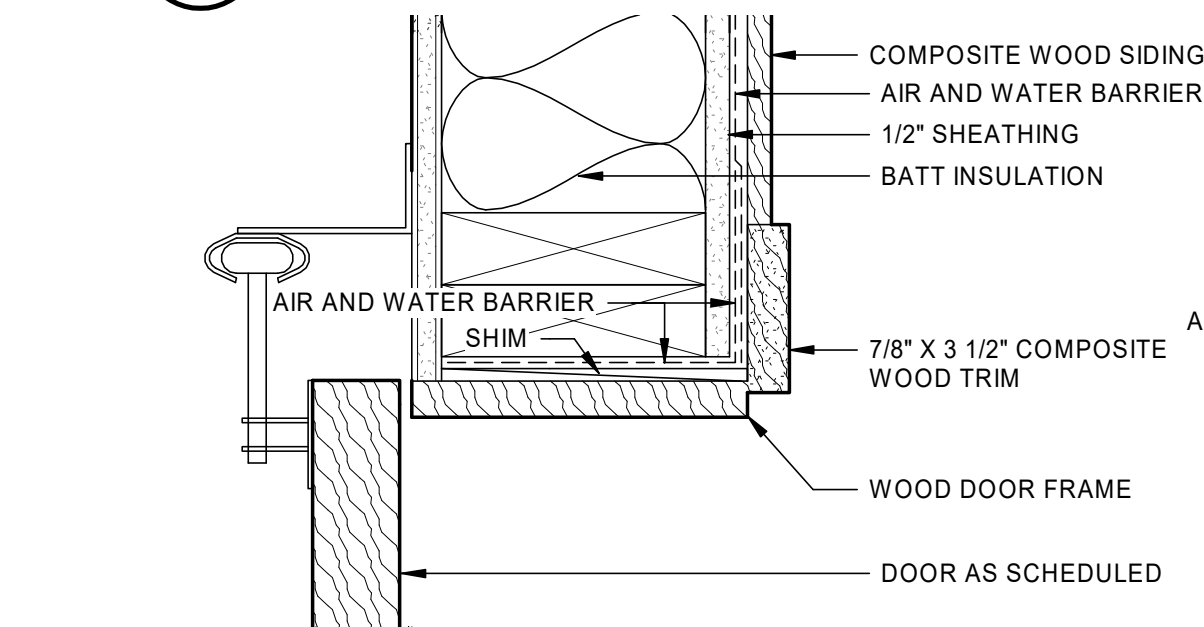
**2 WINDOW TYPE A**  
1/4" = 1'-0"

**3 WINDOW TYPE B**  
1/4" = 1'-0"

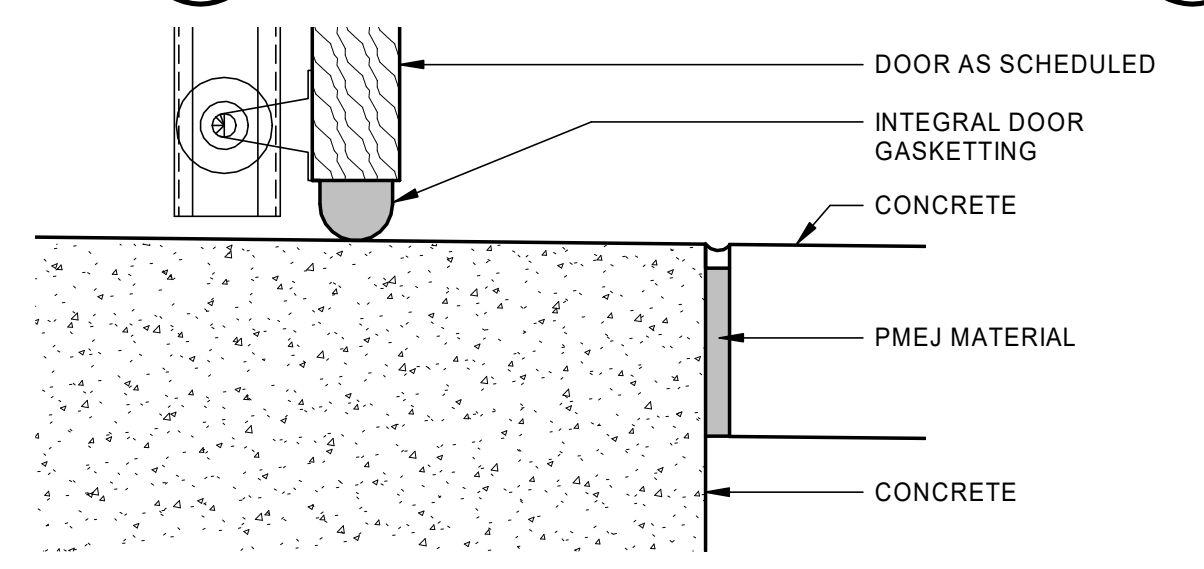
**4 WINDOW TYPE C**  
1/4" = 1'-0"



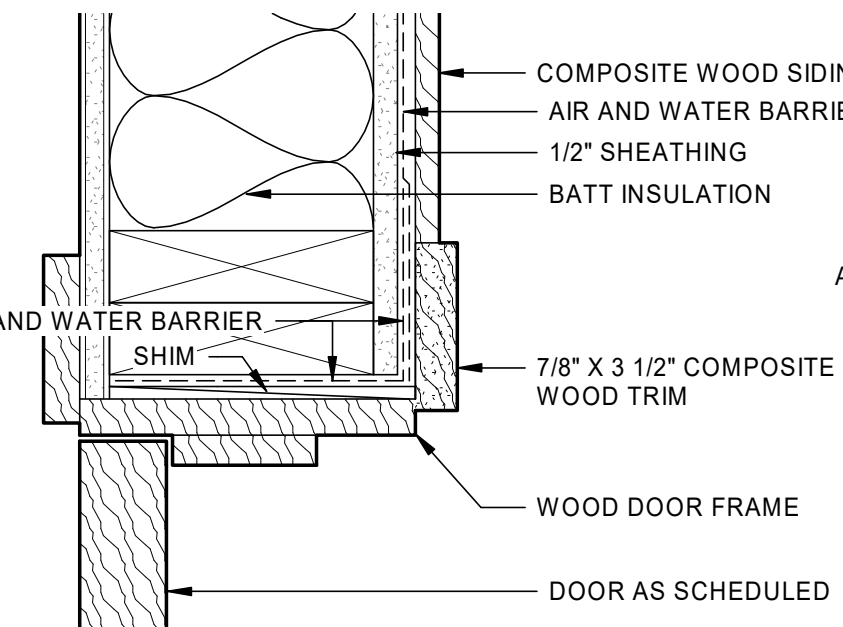
**12 OH DR HEAD**  
3" = 1'-0"



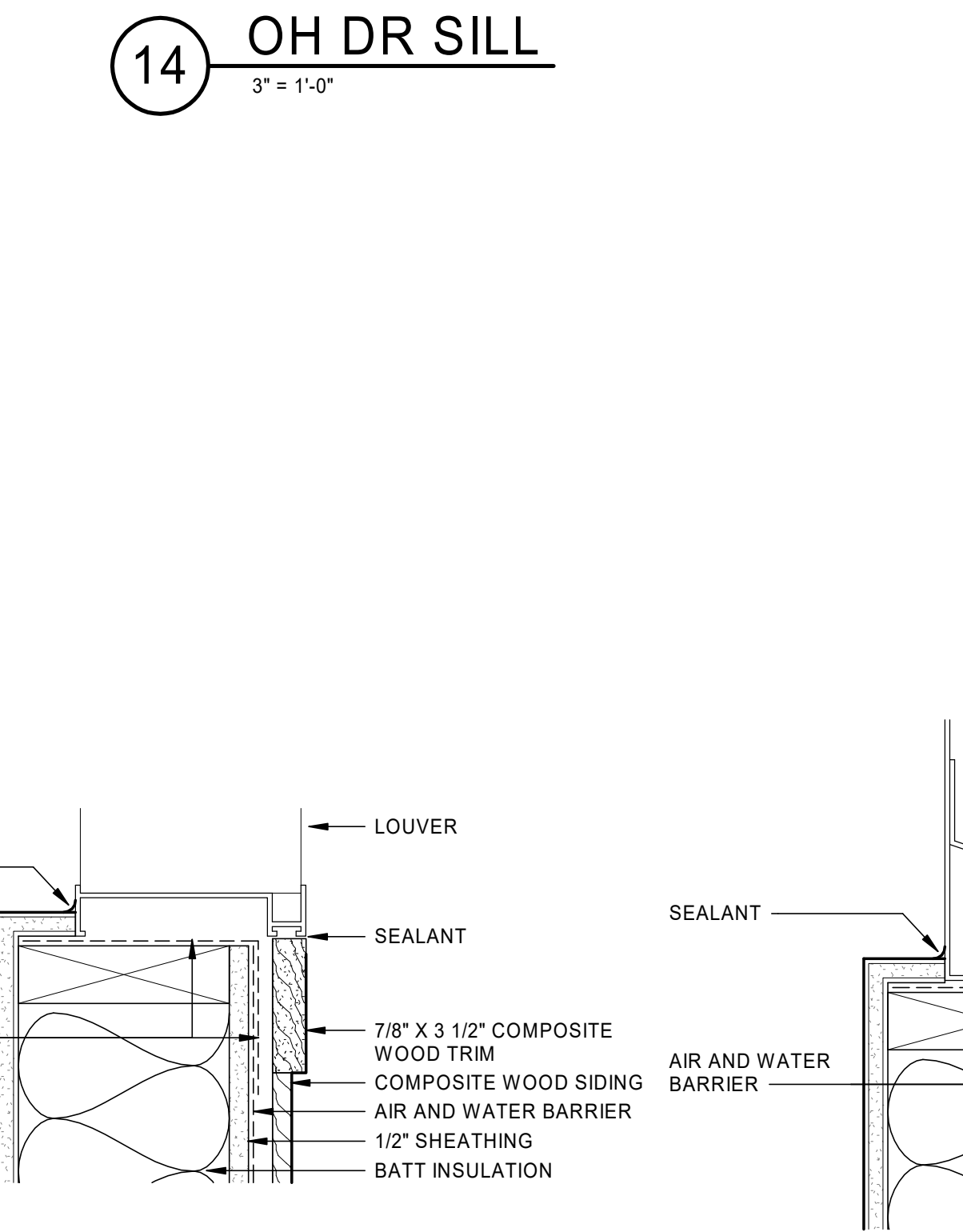
**13 OH DR JAMB**  
3" = 1'-0"



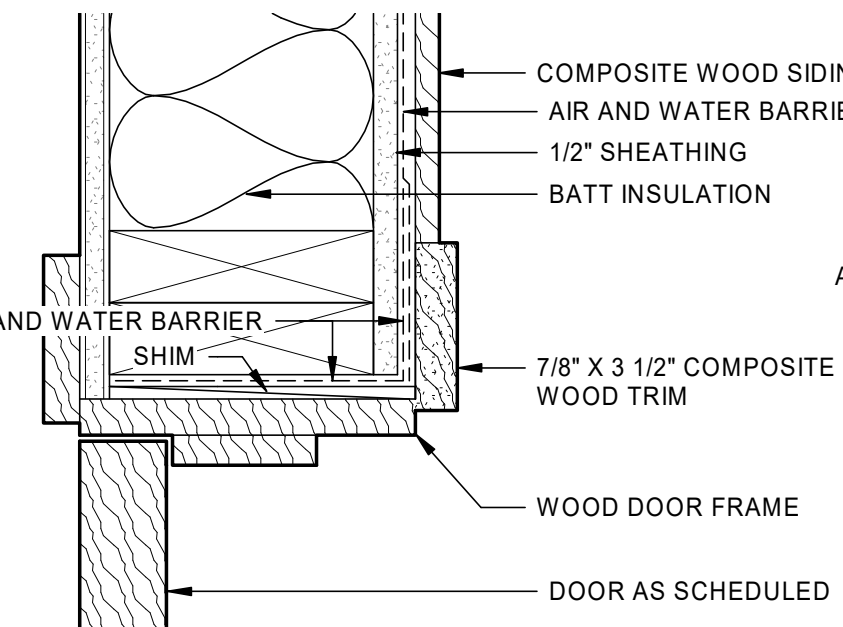
**14 OH DR SILL**  
3" = 1'-0"



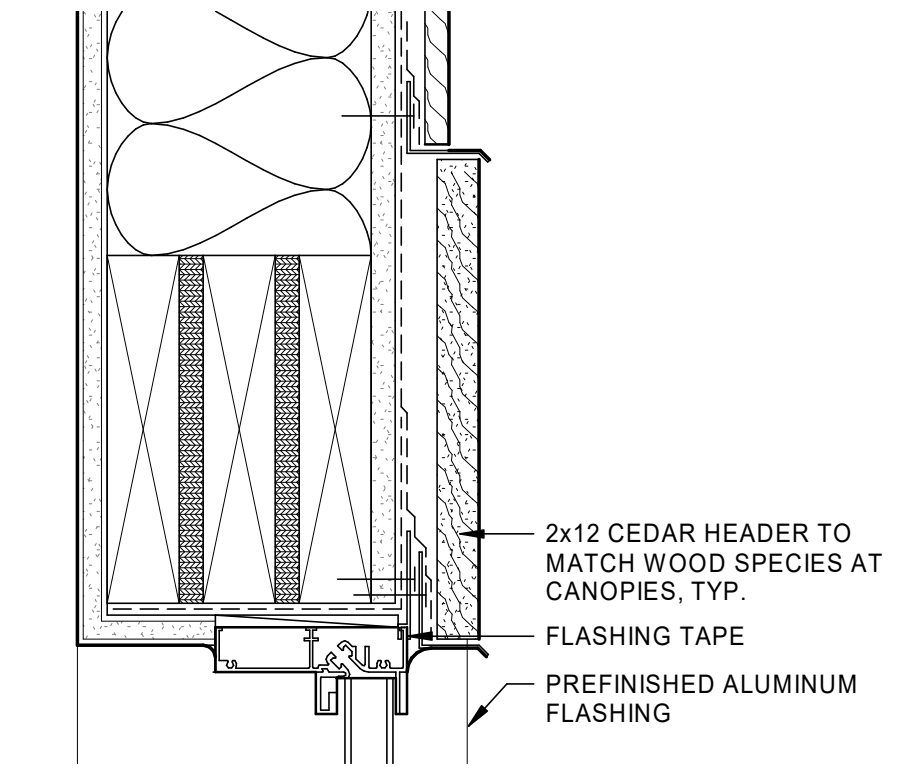
**11 EXT DR JAMB**  
3" = 1'-0"



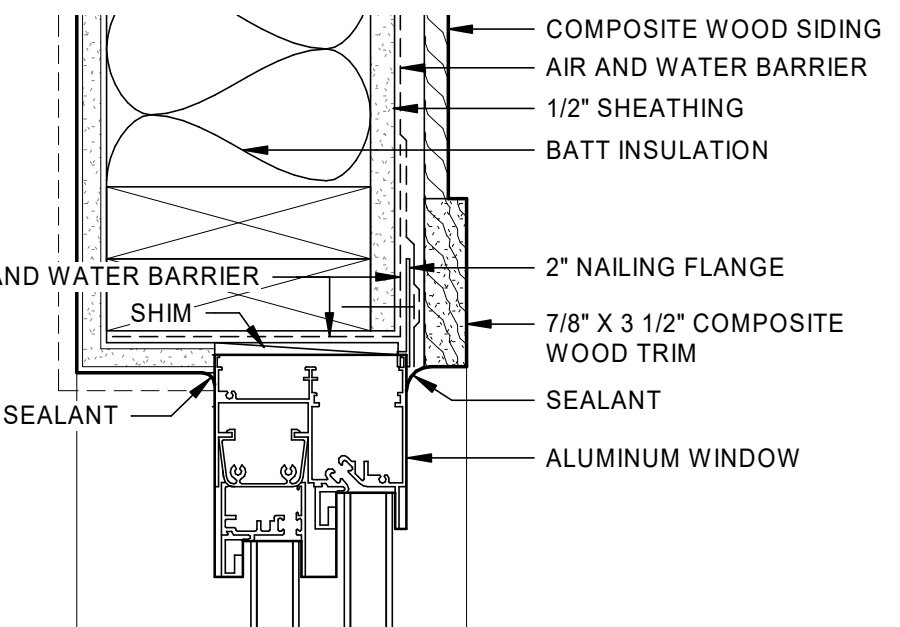
**16 LOUVER JAMB**  
3" = 1'-0"



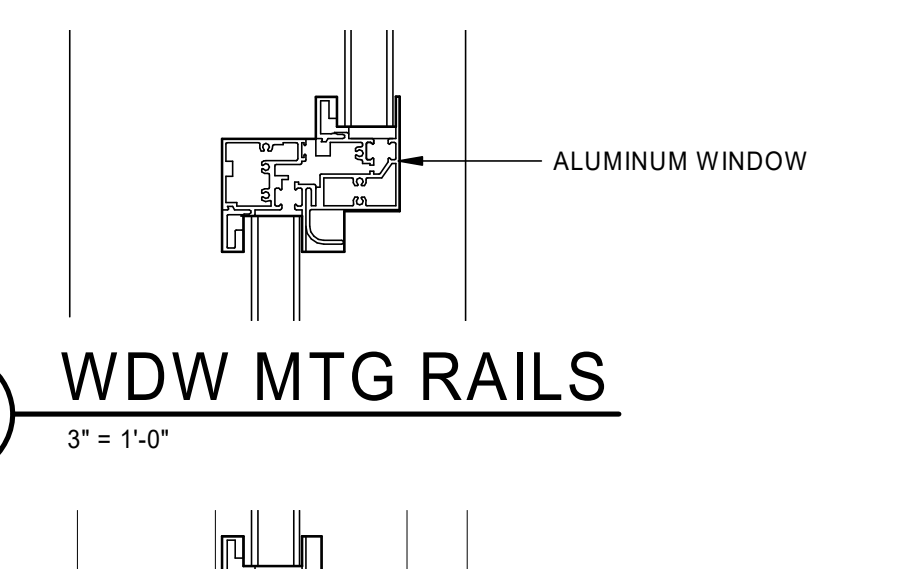
**18 LOUVER SILL**  
3" = 1'-0"



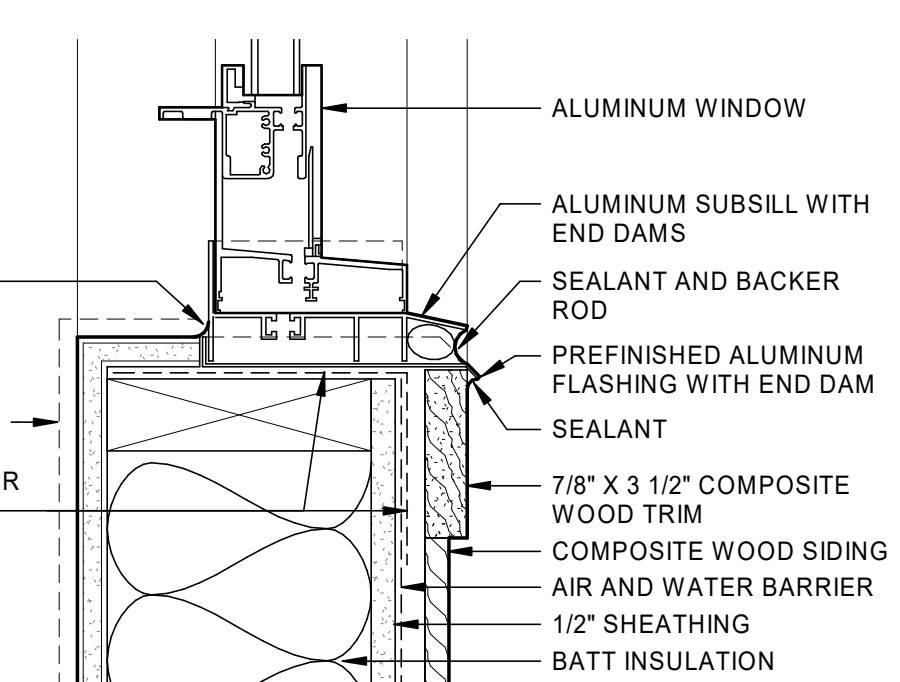
**5 WDW HEAD**  
3" = 1'-0"



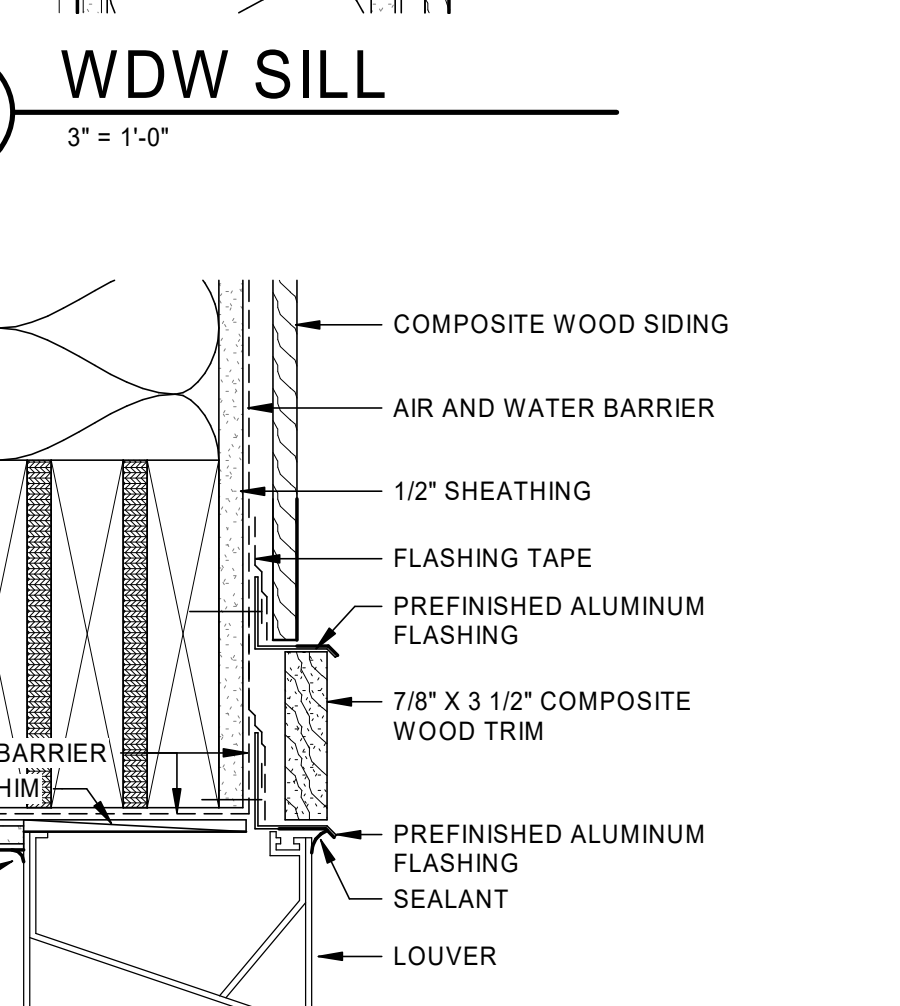
**8 WDW JAMB**  
3" = 1'-0"



**7 WDW MTG RAILS**  
3" = 1'-0"



**6 WDW SILL**  
3" = 1'-0"



**15 LOUVER HEAD**  
3" = 1'-0"

STIPULATION FOR REUSE  
 THIS DRAWING WAS PREPARED FOR USE ON A SPECIFIC SITE IN TULSA, OK. CONTEMPORANEOUSLY WITH ITS ISSUE DATE ON 06/12/2020 AND IT IS NOT SUITABLE FOR USE ON A DIFFERENT PROJECT SITE OR AT A LATER TIME. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF PROPERLY LICENSED ARCHITECTS AND ENGINEERS. REPRODUCTION OF THIS DRAWING FOR REUSE ON ANOTHER PROJECT IS NOT AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100

CHECKED BY: LFG  
DRAWN BY: JGF

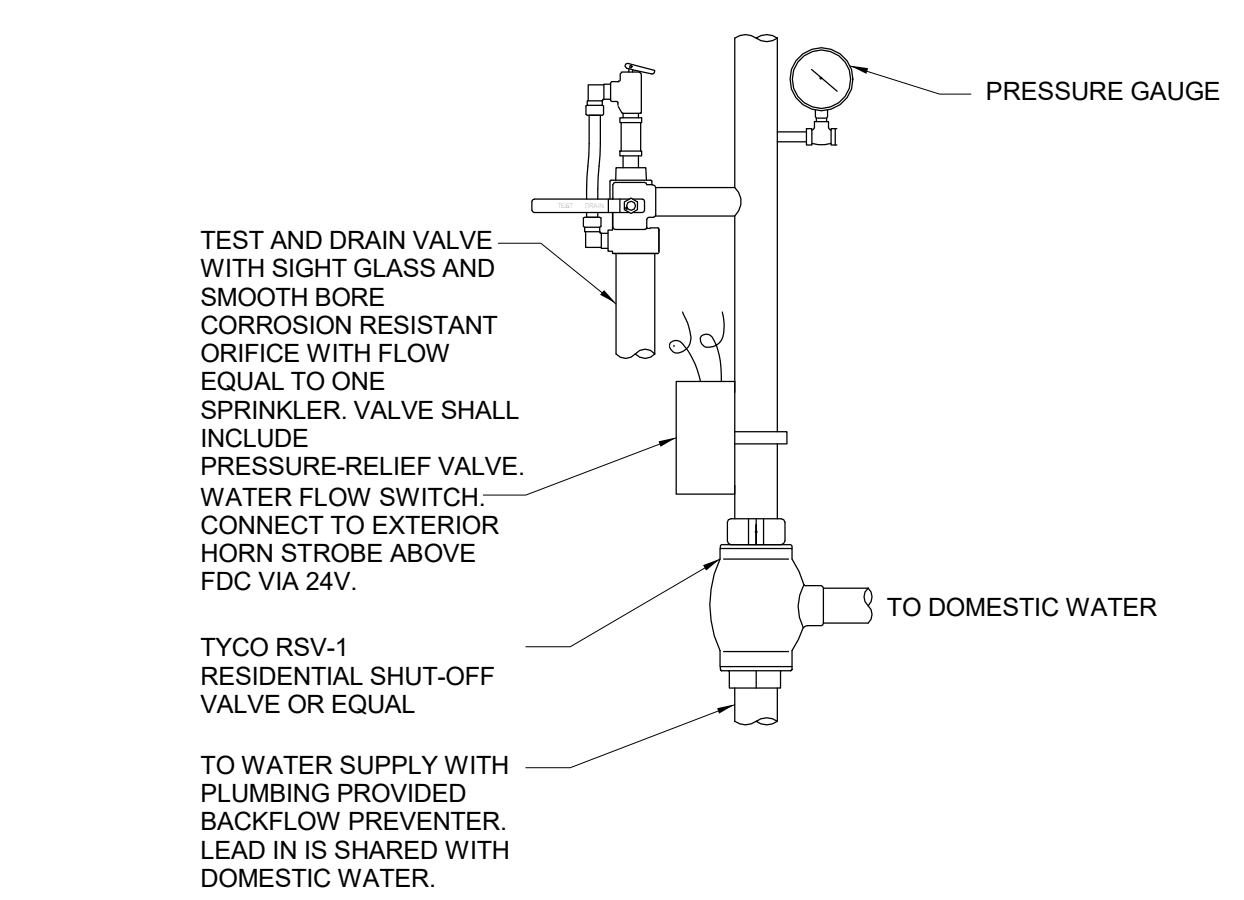
SHEET NAME

DOOR AND FRAME SCHEDULE, WINDOW TYPES, PARTITION TYPES

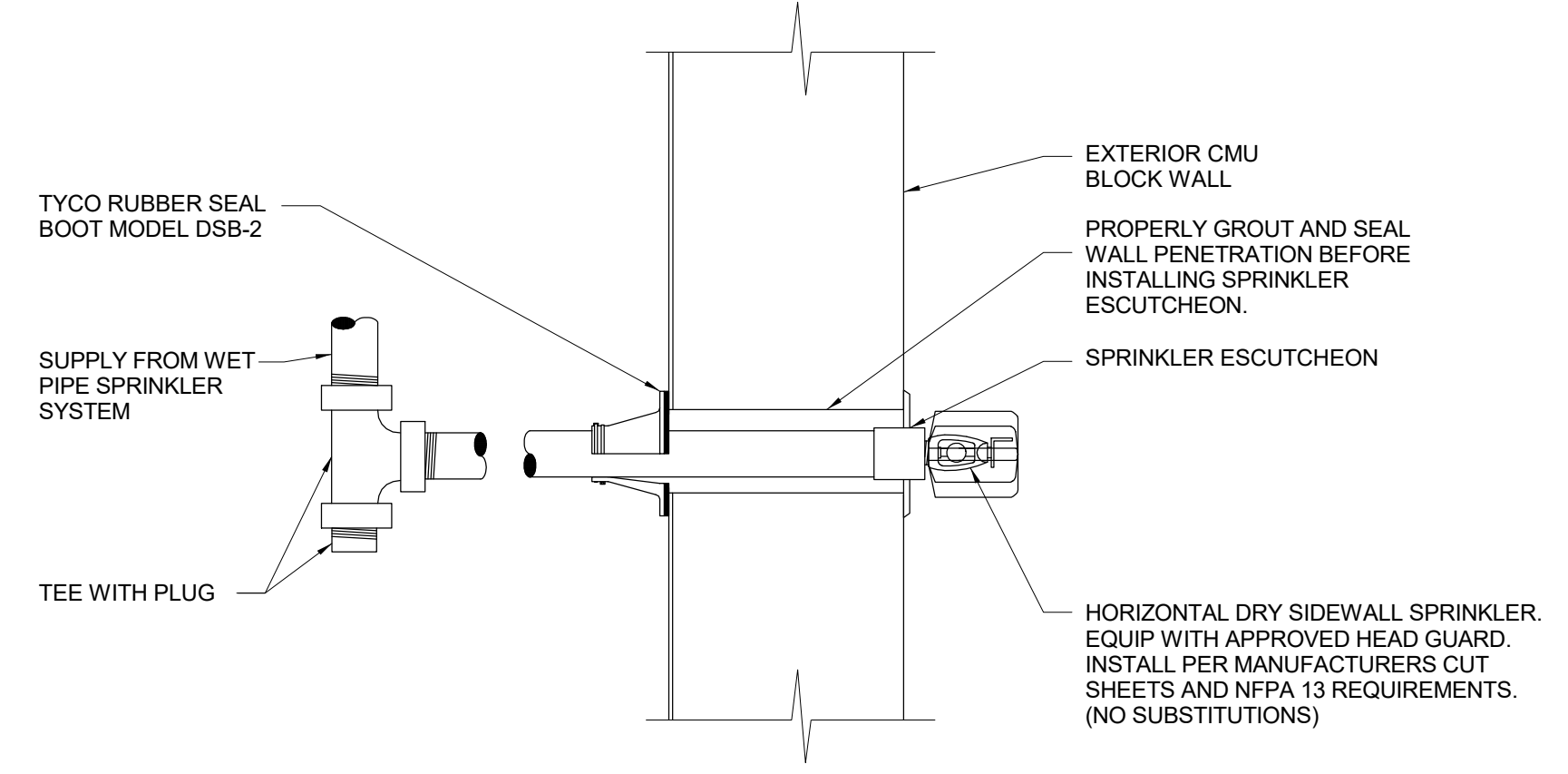
SHEET NUMBER



**1 FIRE PROTECTION SITE UTILITY PLAN**  
NTS



**2 FIRE SPRINKLER RISER**  
NTS



**3 DRY HORIZONTAL SIDEWALL SPRINKLER**  
NTS

**CONTACT INFORMATION**

DOCUMENTS INCLUDE JURISDICTIONAL REQUIREMENTS PROVIDED BY THE FOLLOWING CONTACTS:  
  
FIRE SPRINKLER REVIEWING AUTHORITY:  
CITY OF TULSA  
MR RICK BRUDER  
918-576-5584

**APPLICABLE CODES**

NFPA STANDARDS  
NFPA 13D W/ TULSA AMENDMENTS  
IRC W/ TULSA AMENDMENTS  
  
EDITION  
2013  
2015

**FIRE ALARM NOTES**

- SMOKE AND HEAT DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13R.
- IN HEARING IMPAIRED UNIT (TYPE B-2) SHOWN ON FX101, CONTRACTOR SHALL PROVIDE SMOKE AND CARBON MONOXIDE DETECTION WITH STROBE. CONTRACTOR SHALL COORDINATE A FIRE ALARM ACTIVATED 120 V POWER OUTLET FOR USE/ACTIVATION OF TACTILE DEVICE SUCH AS BED SHAKER. REFER TO ELECTRICAL POWER SHEETS FOR LOCATIONS.

**WATER SUPPLY INFORMATION**

TEST STATIC AT SRC: 58.0 PSI  
TEST RESIDUAL AT SRC: 56.0 PSI AT 919 GPM  
  
INFORMATION DERIVED FROM A WATER REPORT SUPPLIED BY CYNERGY DURING A FLOW TEST VISIT ON 12/10/2018. THE TEST WAS CONDUCTED AT 1:45 PM.

THE WATER SUPPLY IS MODIFIED BY THE FOLLOWING:

- 5.0 PSI DUE TO LOW CITY PRESSURE
- STATIC AND RESIDUAL PRESSURE LOSS DUE TO AN ASSUMED DOUBLE CHECK BACKFLOW PREVENTER
- 6.4 PSI DUE TO UNDERGROUND PIPE FRICTION LOSS FROM TEST TO FINISH FLOOR STUB-UP FLANGE

ADDITIONAL SAFETY FACTORS ARE NOT INCLUDED.

\*AN ADDITIONAL 5-PSI SAFETY FACTOR IS NOT INCLUDED IN THE ABOVE NUMBERS, BUT WILL BE INCLUDED IN THE FIRE SPRINKLER HYDRAULIC CALCULATIONS.

**PIPE DIMENSION TABLE**

PRODUCT	NOMINAL PIPE SIZE	INSIDE DIAMETER
SCHEDULE 40	1"	1.049
CPVC	1"	1.101
SCHEDULE 40	1 1/2"	1.380
CPVC	1 1/2"	1.394
SCHEDULE 40	1 3/4"	1.610
CPVC	1 3/4"	1.598
SCHEDULE 40	2"	2.067
CPVC	2"	2.003
SCHEDULE 10	2 1/2"	2.635
CPVC	2 1/2"	2.423
SCHEDULE 10	3"	3.260
CPVC	3"	2.950
SCHEDULE 10	4"	4.260
SCHEDULE 10	6"	6.357
PVC	6"	6.357
SCHEDULE 10	8"	8.249

PIPE SIZES SHOWN ARE FOR HYDRAULIC CALCULATIONS PURPOSES.

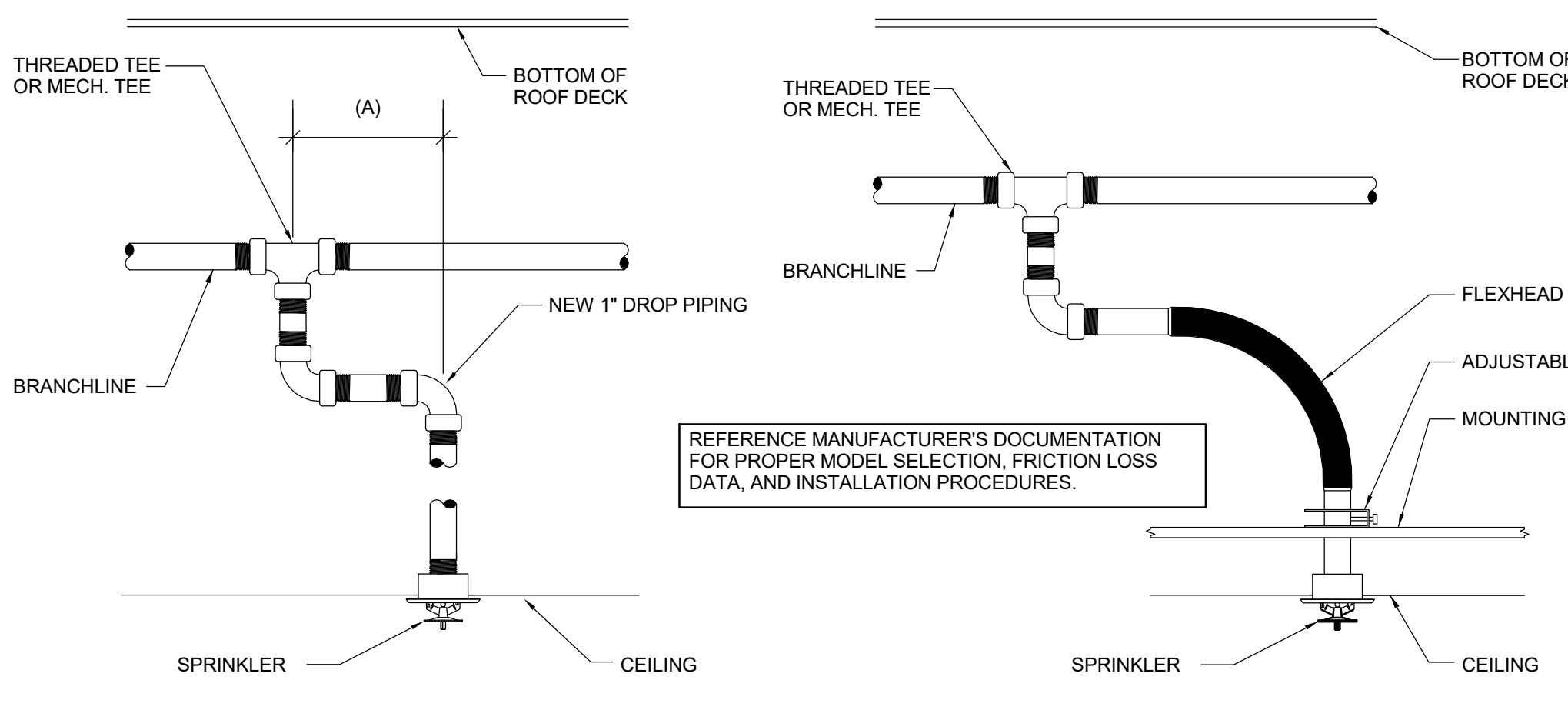
**GENERAL NOTES**

- THE DESIGN SHOWN ON THESE CONTRACT DOCUMENTS IS TO PROVIDE GUIDANCE FOR BIDDING AND TO OBTAIN APPROVAL FROM THE AUTHORITY HAVING JURISDICTION. SPRINKLER CONTRACTOR SHALL SUBMIT COMPLETE FIRE SPRINKLER SHOP DRAWINGS AS REQUIRED BY CONTRACT DOCUMENTS TO THE OWNERS DESIGNATED REVIEWER. BASE DESIGN UPON THESE DRAWINGS AND AS REQUIRED BY THE SPECIFICATIONS. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS, HANGER LOCATIONS, PIPE LENGTHS, DIMENSIONS, FABRICATIONS METHODS, MATERIAL DATA SUBMITTALS, AND ADDITIONAL INFORMATION NECESSARY TO CLARIFY THE INTENT OF INSTALLATION. CONTRACTOR SHALL PROVIDE PIPE SIZE, SPRINKLER SPACING, AND SYSTEM CONFIGURATION AS SHOWN. ALTERNATES MUST BE APPROVED IN WRITING VIA THE RFI PROCESS BY THE FIRE PROTECTION ENGINEER OF RECORD DOCUMENTS PRIOR TO BID.
- COORDINATE LOCATIONS OF FIRE PROTECTION COMPONENTS, INCLUDING SPRINKLERS, PIPING, HANGER ASSEMBLIES, ALARMS, DRAINS, TEST POINTS, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS. OBSTRUCTIONS TO SPRINKLER DISCHARGE MUST BE CONSIDERED DURING SHOP DRAWING PRODUCTION AND INSTALLATION. ADDITIONAL SPRINKLERS OR DIFFERENT PIPE ROUTING MAY BE REQUIRED AT NO ADDITIONAL COST TO OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- THE SPRINKLER CONTRACTOR MUST DETERMINE THE FULL EXTENT OF THE FIRE PROTECTION WORK AND EXISTING CONDITIONS, BECOME TOTALLY FAMILIAR WITH CONDITIONS IN THE PROPOSAL FOR THIS PROJECT. NO EXTRA COMPENSATION WILL BE PAID FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION, AND/OR ALLOWANCE.
- SUBMIT A REQUEST FOR INFORMATION FOR ANY QUESTIONS REGARDING THE FIRE PROTECTION DOCUMENTS TO THE ARCHITECT AND ENGINEER OF RECORD.
- PENETRATIONS OF "RATED ASSEMBLIES" SHALL BE FIRE STOPPED WITH AN APPROVED MATERIAL PER METHODS REQUIRED ALLOWED BY THE FIRE PROTECTION ENGINEER OF RECORD AND THE AUTHORITY HAVING JURISDICTION.
- THE FIRE PROTECTION ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NOR SHALL THEY BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK. THE CONSTRUCTION PROCEDURES FOLLOWED BY THE CONTRACTOR, SUBCONTRACTORS, THEIR RESPECTIVE EMPLOYEES OR ANY OTHER PERSON AT THE JOB SITE OTHER THAN THAT OF THE ENGINEERING FIRMS EMPLOYEES.
- THE SPRINKLER CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID SHOULD MODIFICATIONS TO THESE PLANS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH ALL OTHER TRADES, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL OF THE CHANGES FROM BOTH THE AUTHORITY HAVING JURISDICTION AND THE FIRE PROTECTION ENGINEER OF RECORD IN ADDITION TO OBTAINING THE NECESSARY APPROVALS. THE SPRINKLER CONTRACTOR MUST MAKE NOTE OF ANY FIELD OR COORDINATION CHANGES ON THE INSTALLATION DRAWINGS, AND THEN MUST PROVIDE A SET OF "RED-LINED" AS-BUILT DRAWINGS TO THE FIRE PROTECTION ENGINEER OF RECORD ONCE COMPLETE.
- THE SPRINKLER CONTRACTOR MUST VERIFY ALL DROP DOWN LOCATIONS AT EXTERIOR WALLS WITH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- ALL PIPING MUST BE COORDINATED AROUND FRAMING MEMBERS AND PROPERLY INSTALLED ABOVE THE BOTTOM CHORD OF THE BAR JOIST.

**GENERAL NOTES CONT.**

- THE SPRINKLER CONTRACTOR SHALL ROUTE PIPING AROUND ALL OBSTRUCTIONS AND PROVIDE SPRINKLER PROTECTION UNDER OBSTRUCTIONS, AS DETAILED IN THE AHJ APPROVED EDITION OF NFPA 13R AS PART OF THE FIELD COORDINATION AT NO ADDITIONAL COST TO OWNER. REFER TO ALL FIRE PROTECTION DETAILS AND CONSTRUCTION DOCUMENTS FOR ALL INFORMATION.
- ALL SPRINKLER DEFLECTOR DISTANCE REQUIREMENTS SHALL BE IN ACCORDANCE AS DETAILED IN THE AHJ APPROVED EDITION OF NFPA 13R.
- ALL PIPING PASSING THROUGH WALLS SHALL BE INSTALLED WITH ONE INCH CLEARANCE ON ALL SIDES. (CORE DIAMETER EQUAL TO PIPE +2"). ALL CORES SHALL BE COORDINATED WITH STRUCTURAL REINFORCING. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CORING WITH PROPER CLEARANCE AT ALL WALLS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TWO INCH CLEARANCE AROUND ALL PIPING PASSING THROUGH CONCRETE SLABS. THE SPRINKLER CONTRACTOR SHALL FILL ALL CLEARANCES WITH APPROVED MASTIC.
- PROVIDE FLUSHING CONNECTIONS IN ACCORDANCE WITH THE STANDARDS OUTLINED IN NFPA 13R.
- PROVIDE ALL NECESSARY OFFSETS, RISE OR DROPS IN PIPING AND AUXILIARY DRAINS AS REQUIRED BY BUILDING CONDITIONS.
- EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS, CLEARANCES, ETC.
- ARCHITECTURAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE CONTRACT DOCUMENTS FOR LOCATIONS, SIZES AND QUANTITIES OF OTHER TRADE WORK.
- ALL SPRINKLER SPACING SHALL ADHERE TO THE CONTRACT DOCUMENTS AS WELL AS THE ADOPTED EDITION OF NFPA 13R.
- INTERFACE SPRINKLER SYSTEM WITH FIRE PROTECTION SUPERVISORY SYSTEM.
- ALL MATERIALS SHALL BE UL LISTED OR FM APPROVED. SPRINKLER PIPE SHALL BE MANUFACTURED TO STANDARDS RECOGNIZED BY NFPA 13R. THREADED SCH 40 PIPE SHALL HAVE A CORROSION RESISTANCE RATINGS OF 1.0 OR GREATER. CRIMP-TYPE COUPLINGS SHALL NOT BE USED.
- ALL SPRINKLER SYSTEMS SHALL BE HYDROSTATICALLY TESTED PER NFPA 13R AFTER COMPLETION OF WORK.
- DO NOT HANG OR SUPPORT ANY LOADS OR MAKE ANY ATTACHMENTS TO THE METAL ROOF DECK OR JOIST BRIDGING.
- PROVIDE RETAINING STRAPS ON HANGERS WHERE REQUIRED.
- HANG ALL NEW SPRINKLER BRANCH LINE PIPING IN ACCORDANCE WITH THE ADOPTED EDITION OF NFPA 13R.
- ALL SPRINKLER PIPING, FITTINGS, AND HANGER ASSEMBLIES THAT ARE INSTALLED IN VIEW OF THE PUBLIC SHALL BE REQUIRED TO BE PAINTED, EITHER BY THE SPRINKLER CONTRACTOR OR THE GENERAL CONTRACTOR.
- SPRINKLER PIPING CAN BE CPVC OR STEEL.
- A BACKFLOW PREVENTER IS REQUIRED INSIDE OF THE BUILDING ON THE SHARED WATER LINE AND WILL BE SUPPLIED BY THE PLUMBING CONTRACTOR.
- A KNOX BOX IS REQUIRED ON EACH BUILDING.
- ALL SPRINKLER VALVES NEED TO BE CHAINED AND LOCKED AS WELL AS ELECTRONICALLY MONITORED.
- GARAGE AND NON HEATED AREAS SHALL BE PROTECTED USING HORIZONTAL SIDEWALL SPRINKLERS.

PRESSURE IN EXCESS OF 100 PSI @ SPRINKLER, DIMENSION (A) SHALL NOT EXCEED 12 INCHES WITHOUT BEING SUPPORTED BY HANGER THAT PREVENTS UPWARD MOVEMENT.  
  
PRESSURE LESS THAN 100 PSI @ SPRINKLER, DIMENSION (A) SHALL NOT EXCEED 24 INCHES WITHOUT BEING SUPPORTED BY HANGER.



**4 LOW CEILING SPRINKLER**  
NTS

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: JRS  
DRAWN BY: KMB

SHEET NAME  
**FIRE SUPPRESSION NOTES AND DETAILS**

SHEET NUMBER  
**FX001**



CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
JAMES ROY SPRADLING, PE  
ENGINEER OF RECORD

**KEYNOTES**

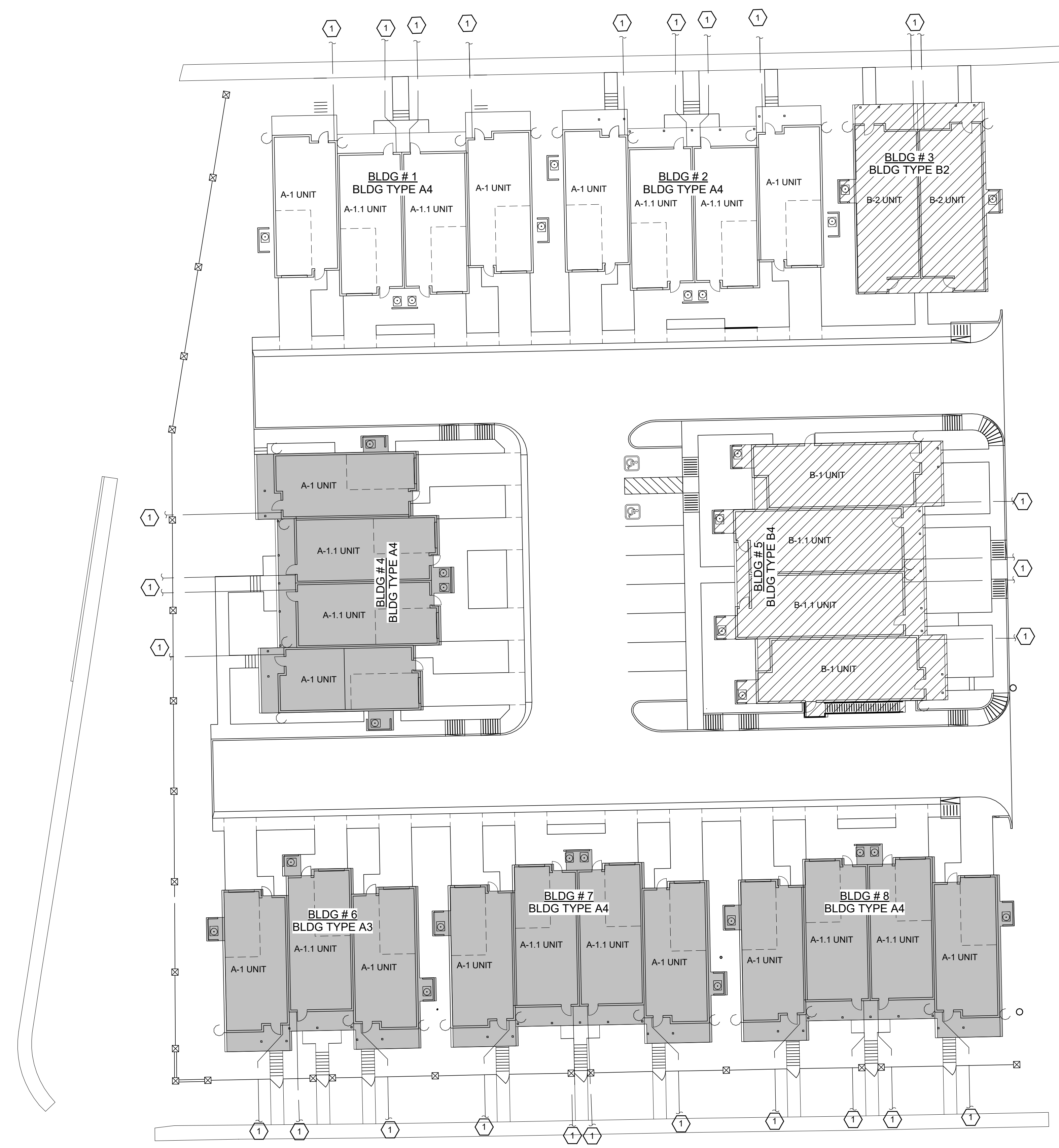
1. REFER TO CIVIL FOR CONTINUATION.

**GENERAL NOTES**

1. REFER TO SHEETS PLUMBING AND FIRE SUPPRESSION SHEETS FOR CONTINUATION OF WATER.

**PHASING LEGEND**

PHASE 1  
 PHASE 2  
 FUTURE - BY OTHERS



**1 FIRE SUPPRESSION SITE PLAN**  
1" = 20'-0"

**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

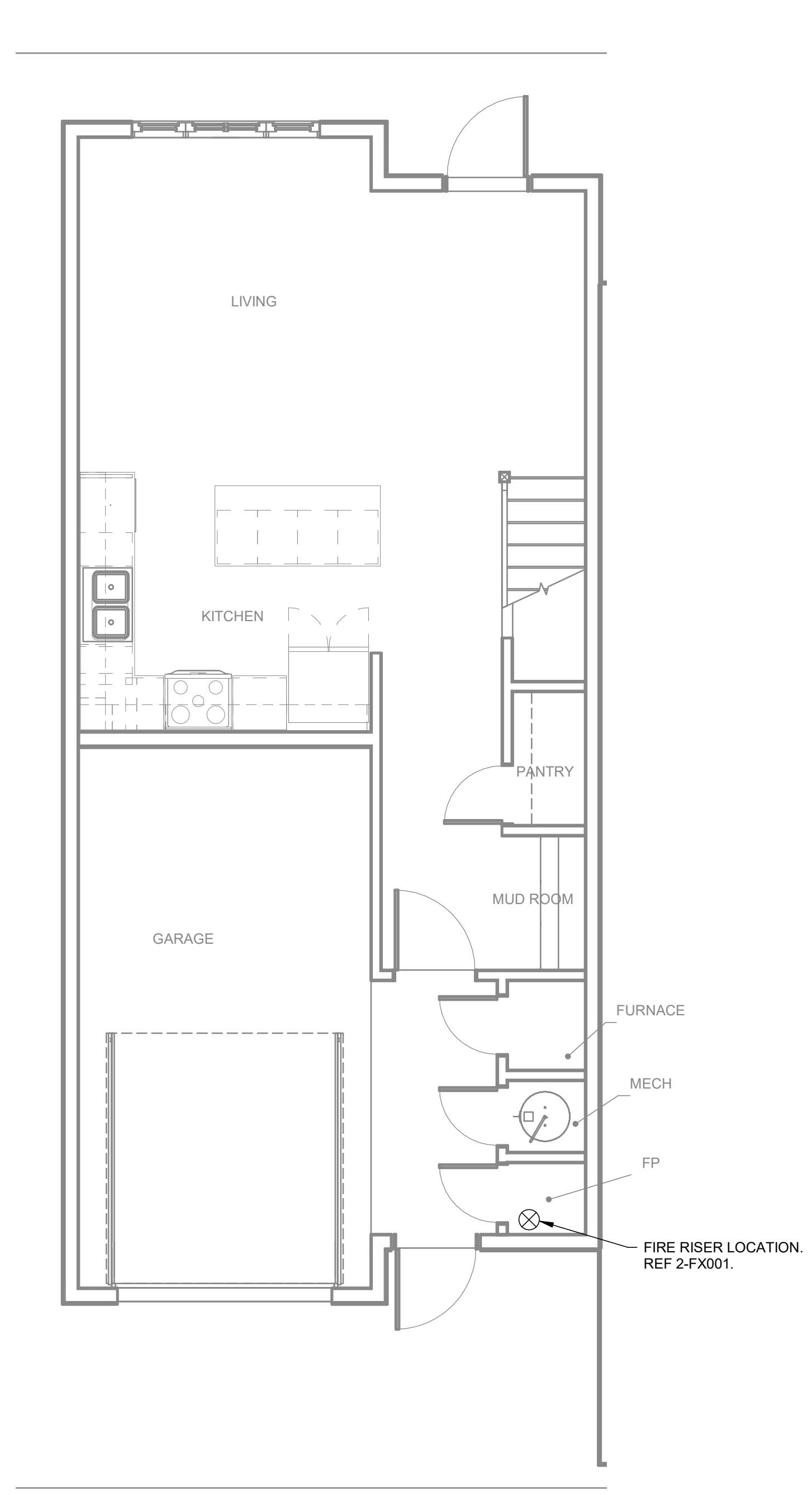
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: JRS  
DRAWN BY: KMB

SHEET NAME  
**FIRE SUPPRESSION SITE PLAN**

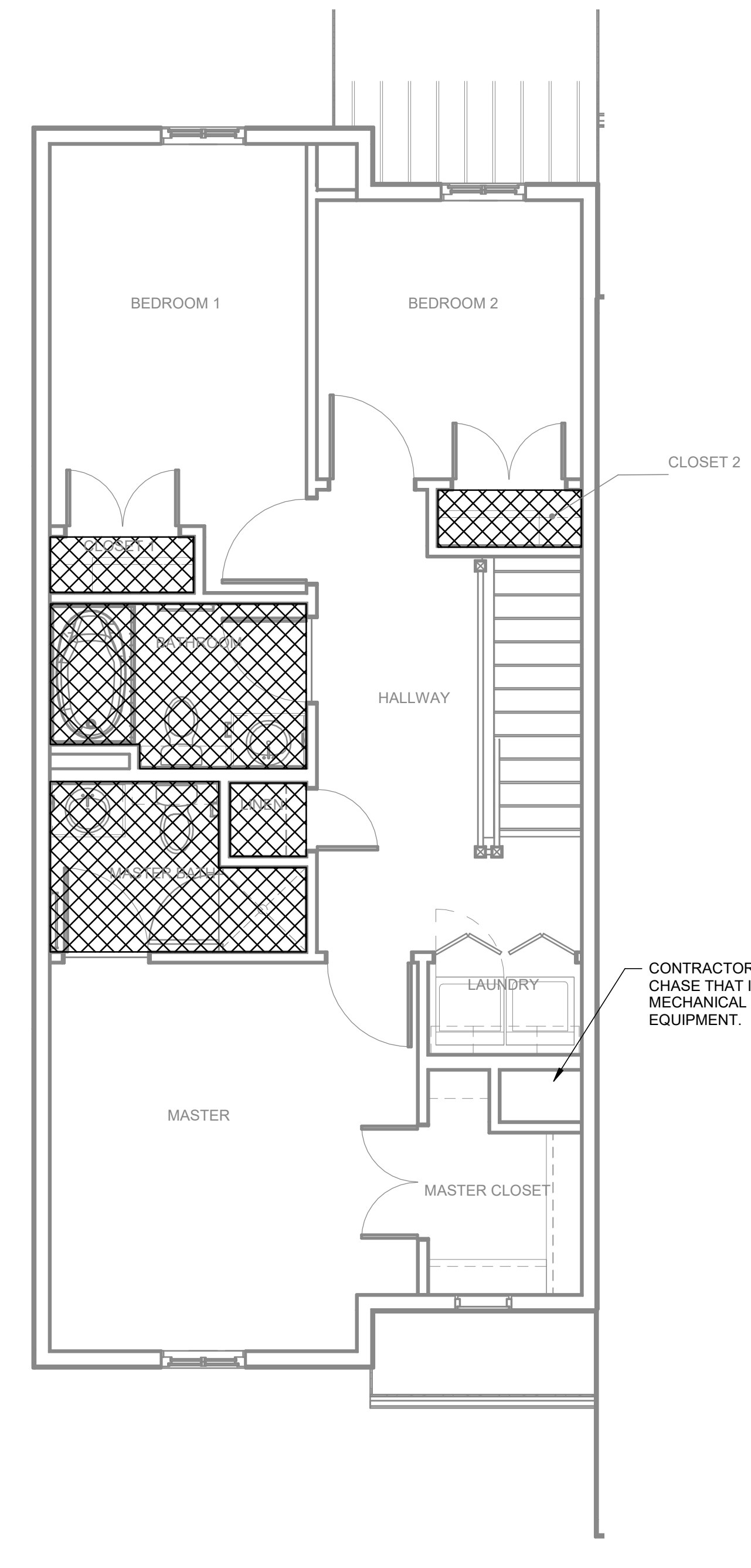
SHEET NUMBER  
**FX101**



PROTECTION CRITERIA BASED ON 2013 NFPA 13R		
CLASSIFICATION	RESIDENTIAL	NO SPRINKLER PROTECTION REQUIRED
MARK		
OCCUPANCY AREA SERVED	BEDROOMS/ HALLWAYS/ RESTROOMS/ CLOSETS/ GARAGE	
SPRINKLER DENSITY	0.05 GPM/SQUARE FOOT PER COMPARTMENT OR 4 MOST DEMANDING SPRINKLERS	
SPRINKLER TEMPERATURE (°F)	155°	
SPRINKLER RESPONSE	QUICK	
MAXIMUM SPRINKLER SPACING (SQ. FT.)	400 SQ. FT.	
DESIGN BASIS	NFPA 13R SECTION 7.1	NO SPRINKLER PROTECTION REQUIRED; NFPA 13R (2013) SECTION 6; IRC (2015) Section 2904.1.1



**1 ENLARGED UNIT A-1 FIRST FLOOR PLAN**  
1/4" = 1'-0"



**2 ENLARGED UNIT A-1 SECOND FLOOR PLAN**  
1/4" = 1'-0"

**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION

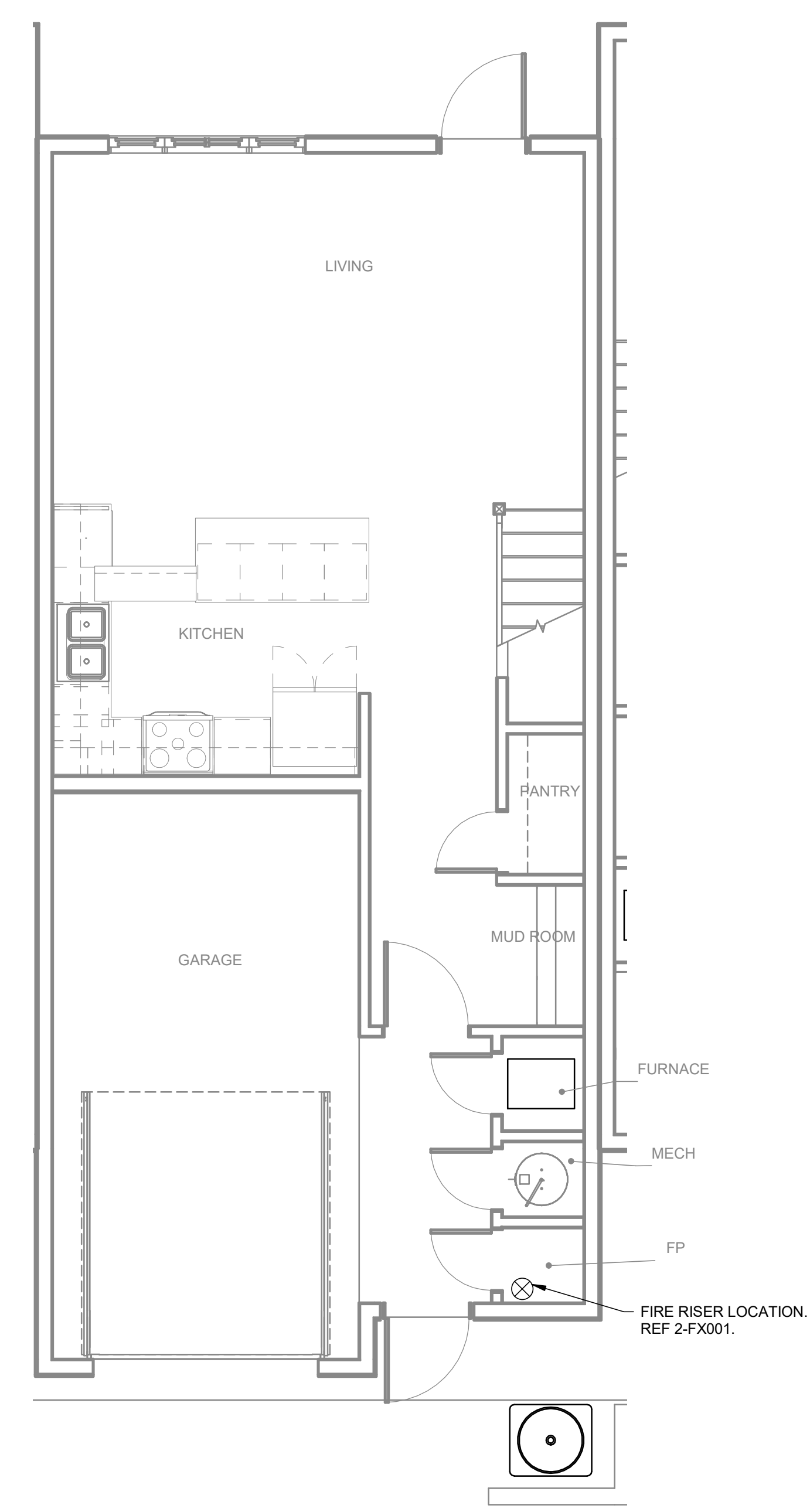
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: JRS  
DRAWN BY: KMB

SHEET NAME  
ENLARGED UNIT A-1 FIRE SUPPRESSION PLANS

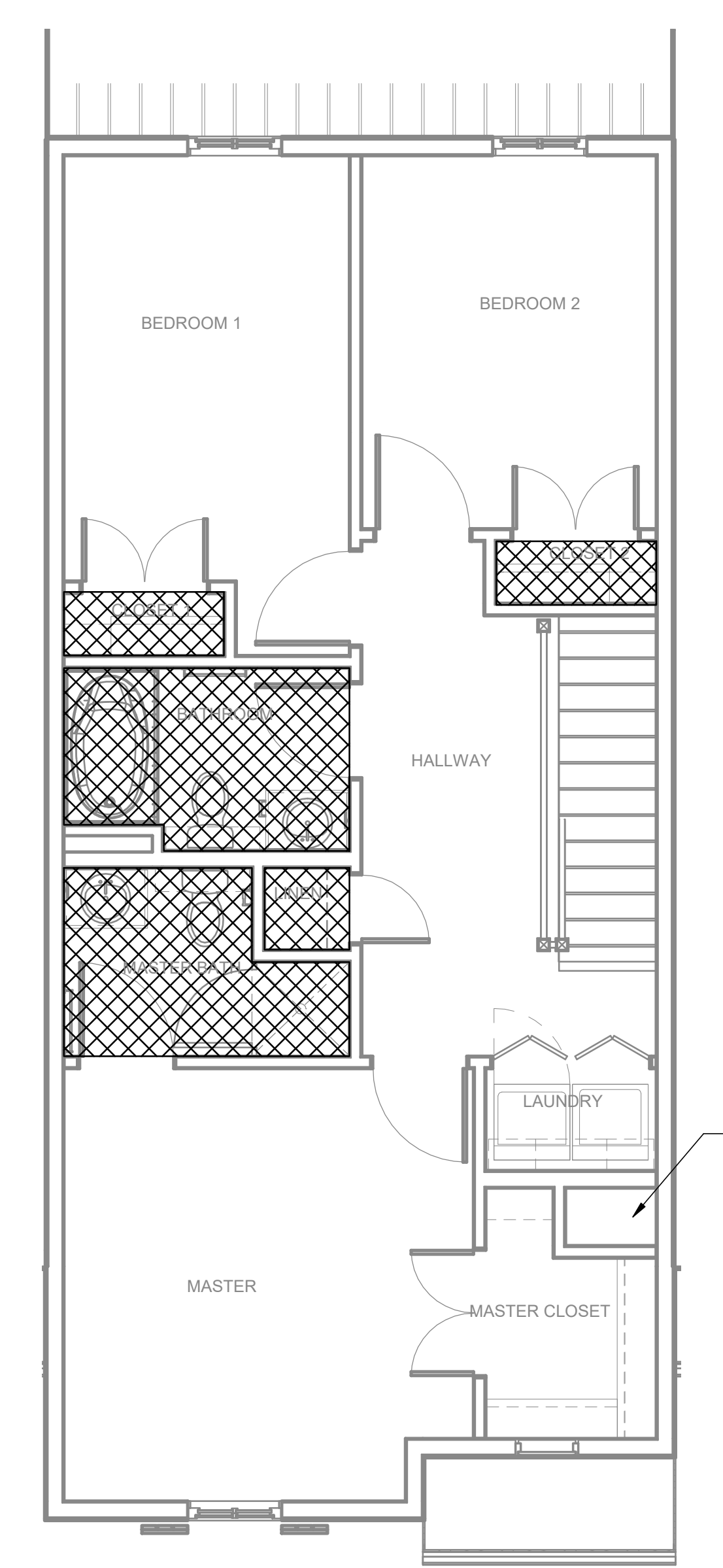
SHEET NUMBER  
**FX401**



PROTECTION CRITERIA BASED ON 2013 NFPA 13R		
CLASSIFICATION	RESIDENTIAL	NO SPRINKLER PROTECTION REQUIRED
MARK		
OCCUPANCY AREA SERVED	BEDROOMS/ HALLWAYS/ RESTROOMS/ CLOSETS/ GARAGE	
SPRINKLER DENSITY	0.05 GPM/SQUARE FOOT PER COMPARTMENT OR 4 MOST DEMANDING SPRINKLERS	
SPRINKLER TEMPERATURE (°F)	155°	
SPRINKLER RESPONSE	QUICK	
MAXIMUM SPRINKLER SPACING (SQ. FT.)	400 SQ. FT.	
DESIGN BASIS	NFPA 13R SECTION 7.1	NO SPRINKLER PROTECTION REQUIRED; NFPA 13R (2013) SECTION 6; IRC (2015) Section 2904.1.1



**1** ENLARGED UNIT A-1.1 FIRST FLOOR PLAN  
1/4" = 1'-0"



**2** ENLARGED UNIT A-1.1 SECOND FLOOR PLAN  
1/4" = 1'-0"

**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: JRS  
DRAWN BY: KMB

SHEET NAME  
ENLARGED UNIT A-1.1 FIRE SUPPRESSION PLANS

SHEET NUMBER  
**FX402**

**GENERAL NOTES**

- THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH CURRENT APPLICABLE LOCAL, STATE, FEDERAL, FIRE, AND HEALTH CODES AND ORDINANCES AND IS RESPONSIBLE TO COMPLY WITH ALL REGULATIONS OF REGULATORY AGENCIES HAVING JURISDICTION. THE CONTRACTOR SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION. CODES, ORDINANCES AND REGULATIONS SHALL HAVE PRECEDENCE OVER SPECIFICATIONS AND DRAWINGS WHERE THERE IS A CONFLICT. OBTAIN CURRENT COPIES OF ALL ADOPTED CODES AND ORDINANCES PRIOR TO BID AND INCLUDE ALL COSTS TO COMPLY WITH CODES AND ORDINANCES IN BID.
- PAY ALL LAWFUL FEES, PERMITS OR LICENSES REQUIRED TO ACCOMPLISH WORK. OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICE AND ANYTHING REASONABLY INCIDENTAL TO COMPLETE ALL WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED IN ACCORDANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
- THE CONTRACTOR IS RESPONSIBLE TO VISIT AND EXAMINE THE JOB SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PERTINENT TO THE WORK TO BE PERFORMED.
- INCORPORATE ALL CODE AND ORDINANCE REQUIREMENTS INTO THE BID AND INSTALLATION OF WORK. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK REQUIRED TO CONFORM TO REGULATIONS AND REQUIREMENT AND/OR TO OBTAIN APPROVAL OF WORK.
- THE DRAWINGS ARE DIAGRAMMATIC AND ARE ONLY INTENDED TO DEFINE THE BASIC FUNCTIONS REQUIRED. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION CONDITIONS AND COORDINATION WITH OTHER TRADES WILL ALLOW. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND ARE A PART OF THE WORK INCLUDED. HOWEVER, CHANGES THAT ALTER THE CHARACTER OF THE WORK ARE NOT PERMITTED. APPROVAL OF ARCHITECT AND ENGINEER SHALL BE OBTAINED BEFORE DEVIATIONS FROM THESE PLANS ARE MADE.
- PLUMBING AND MECHANICAL SYSTEMS ARE NOT DIMENSIONED. DO NOT SCALE FROM DRAWING(S). THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ENSURE THERE IS AVAILABLE SPACE FOR INSTALLATION BEFORE ORDERING EQUIPMENT AND FABRICATING PIPING AND/OR DUCTWORK.
- THE CONTRACTOR SHALL STUDY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL PLANS TO ENSURE ALL MECHANICAL SYSTEMS WILL FIT WITH SUFFICIENT CLEARANCES FOR INSTALLATION, SERVICING AND MAINTENANCE. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL COMPLY WITH SPECIFICATIONS AND INDUSTRY STANDARDS FOR ALL INSTALLATIONS.
- PROVIDE ALL DOMESTIC POTABLE WATER EQUIPMENT AS "LEAD FREE" PER THE "REDUCTION OF LEAD IN DRINKING WATER ACT". NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO SUBMITTAL.
- REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT LOCATIONS. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING EQUIPMENT.
- SEAL ALL PENETRATIONS WATER TIGHT. SEAL AROUND ALL WALL PENETRATIONS. PROVIDE ESCUTCHEONS ON ALL PIPING ON EXTERIOR AND EXPOSED LOCATIONS. CAULK WITH REQUIRED THICKNESS 3M BRAND FIRE BARRIER CAULK CP-25 (OR OTHER APPROVED METHOD) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE RATED ASSEMBLIES.
- ALL CUTTING AND PATCHING OF STRUCTURE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PERFORMING WORK.
- THE CONTRACTOR SHALL COORDINATE ALL ROUTING AND MOUNTING OF EQUIPMENT, DUCTWORK, PIPING, ETC. (ALL WORK) WITH ALL OTHER TRADES.
- PROVIDE ACCESS PANELS WHERE INDICATED ON DRAWINGS AND AS REQUIRED TO PROPERLY OPERATE, ADJUST AND MAINTAIN ALL EQUIPMENT, VALVES, DAMPERS AND OTHER ACCESSORIES. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE INSTALLATION WITH ALL OTHER TRADES. ACCESS PANEL TO BE SPECIFIED BY ARCHITECT.
- ROUTE DUCTWORK AND PIPING AS HIGH AS POSSIBLE ABOVE FINISHED CEILING TO AVOID CONFLICT WITH LIGHTS.
- INSTALL ALL PIPING PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS UNLESS DISTINCTLY SHOWN OR NOTED OTHERWISE. ROUTE PIPING LOCATED NEAR EACH OTHER PARALLEL IN ALL PLANES AND WITH SUFFICIENT CLEARANCE.
- ALL PIPING SHALL BE INSTALLED SO THAT IT MAY EXPAND AND CONTRACT FREELY WITHOUT DAMAGES TO EQUIPMENT, OTHER WORK, OR INJURY TO PIPING SYSTEM. ALL NECESSARY SWING JOINTS, EXPANSION JOINTS, OR OFFSETS TO PROTECT PIPING, ETC. SHALL BE INSTALLED WHETHER INDICATED OR NOT.
- PROPERLY SUPPORT ALL PIPING. PROVIDE ALL REQUIRED ANCHORS, GUIDES AND EXPANSION DEVICES.
- PAINT ALL EXTERIOR AND EXPOSED PIPING. CONFIRM FINAL COLOR WITH ARCHITECT.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL MATERIAL, EQUIPMENT, APPARATUS AND WORK FROM DAMAGE. FAILURE TO DO SO TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE WILL BE SUFFICIENT CAUSE FOR THE REJECTION OF THE MATERIAL, EQUIPMENT, APPARATUS AND WORK IN QUESTION.
- THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR FOLLOWING THE DATE OF ACCEPTANCE. THE CONTRACTOR'S GUARANTEE INCLUDES EQUIPMENT CAPACITY, PERFORMANCE RATINGS AND NOISE RATINGS. ANY DEFICIENCIES SHALL BE PROMPTLY CORRECTED. ROUTINE MAINTENANCE SHALL NOT BE INCLUDED.
- THE CONTRACTOR SHALL CLEAN ALL FIXTURES, PIPES, EQUIPMENT AND EXPOSED WORK AFTER COMPLETION OF FINAL TESTING AND BEFORE ACCEPTANCE.
- ALL PLATED AND OTHER FINISHED PRODUCTS SHALL BE THOROUGHLY CLEANED AND POLISHED.
- THE MANUFACTURER MODEL OR CATALOG NUMBERS INDICATED IN THE CONSTRUCTION DOCUMENTS ESTABLISH A STANDARD FOR THE GENERAL DESIGN, PERFORMANCE, AND QUALITY OF THE PRODUCT REQUIRED.
- ALTERNATE MANUFACTURERS LISTED IN THE SCHEDULE OR SPECIFICATIONS ARE APPROVED TO BID; HOWEVER, THE SUBMITTED PRODUCT MUST MEET THE GENERAL DESIGN, PERFORMANCE, DIMENSIONS, WEIGHT, AND QUALITY OF THE SCHEDULED PRODUCT. EACH MANUFACTURER WILL HAVE DIFFERENCES IN INSTALLATION REQUIREMENTS. IF THE CONTRACTOR ELECTS TO GO WITH A NON-BASIS OF DESIGN MANUFACTURER, ENGINEERING TIME MAY BE REQUIRED TO ADJUST THE DESIGN TO THOSE DIFFERENCES. THE CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE COST FOR ENGINEERING TIME IN THEIR BID, AS REQUIRED, IF THE BASIS OF DESIGN IS NOT BID. THE CONTRACTOR WILL BE RESPONSIBLE TO IDENTIFY THE DIFFERENCES IN THE INSTALLATION REQUIREMENTS BETWEEN THE BASIS OF DESIGN AND THE SUBMITTED MANUFACTURER DURING THE SUBMITTAL PHASE.
- WHERE "OR APPROVED EQUAL" IS INDICATED, OTHER PRODUCTS SIMILAR IN DESIGN AND OF EQUAL QUALITY AND PERFORMANCE, AND COMPLYING WITH THE PLANS AND SPECIFICATIONS MAY BE APPROVED IF FOUND ACCEPTABLE BY THE ARCHITECT/ENGINEER. THE CONTRACTOR MUST SUBMIT TO THE ARCHITECT/ENGINEER A LINE-BY-LINE COMPARISON BETWEEN SCHEDULED MANUFACTURER AND "OR APPROVED EQUAL" MANUFACTURER. REFER TO DIVISION 0 SPECIFICATIONS FOR PRE-APPROVAL TIME PERIOD.
- ALL MATERIALS, EQUIPMENT, ETC., INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO ALL RULES, CODES, ETC., AS RECOMMENDED OR ADAPTED BY THE NATIONAL ASSOCIATION GOVERNING THE MANUFACTURER, RATING AND TESTING OF SUCH MATERIALS, EQUIPMENT, ETC. ALL ELECTRICALLY OPERATED EQUIPMENT SHALL BE U.L. APPROVED FOR THE USE INTENDED.
- ALL FIRED AND UNFIRED PRESSURE VESSELS SHALL CONFORM TO THE RULES OF THE A.S.M.E. AND NATIONAL BOARD CODES AND SHALL BE SO LABELED. FURNISH A.S.M.E. AND NATIONAL BOARD CERTIFICATES.
- MOTORS SHALL CONFORM TO THE RULES OF THE N.E.M.A. FOR THE SERVICE INTENDED AND TO THEIR STANDARDIZED FORM SIZES.
- SHOP DRAWINGS, CATALOG CUTSHEETS AND PERFORMANCE DATA PERTAINING TO ALL MATERIALS AND EQUIPMENT PROPOSED FOR USE SHALL BE SUBMITTED.
- JOINTS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC NIPPLES DOWNSTREAM OF A VALVE.
- ALL MATERIALS EXPOSED IN A RETURN AIR PLENUM SHALL COMPLY WITH NFPA 90A FLAME SPREAD UNDER 25 AND SMOKE DEVELOPED AND FUEL CONTRIBUTED UNDER 50.
- THE DISCHARGE OF SAFETY VALVES, BLOWOFF PIPES AND OTHER OUTLETS SHALL BE LOCATED AND SUPPORTED SO AS TO PREVENT INJURY TO PERSONNEL.
- EQUIPMENT SHOWN ON THE PLANS HAVE A SPECIFIC WEIGHT AND LOCATION. SHOULD THE CONTRACTOR INSTALL EQUIPMENT WITH DIFFERENT WEIGHTS OR LOCATIONS AS SHOWN, CONTRACTOR SHALL PROVIDE THIS INFORMATION TO THE STRUCTURAL ENGINEER FOR APPROVAL. PRIOR TO PURCHASING, CLEARLY INDICATING THE DIFFERENCES IN SIZE, WEIGHT AND LOCATION. THE ARCHITECT/ENGINEER SHALL NOT BEAR THE COSTS OF SUCH REVIEWS OR REDESIGNS.
- DO NOT ROUTE PIPING OVER ELECTRICAL OR COMMUNICATIONS EQUIPMENT. THIS INCLUDES HYDRONICS, STEAM, DOMESTIC WATER, SANITARY SEWER AND VENTS, CONDENSATE, ROOF DRAINS, ETC.
- CONNECTION TO MARKED PROTECTION ZONES ON STEEL BRACES IS PROHIBITED. THIS INCLUDES (BUT NOT LIMITED TO); HOLES, WELDS, TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING, THERMAL CUTTING, BOLTS, SCREWS, AND SHOT-PINS.

**PLUMBING SYMBOLS LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER, SEE SPECS		DISTILLED WATER
	BLIND FLANGE		DEMINERALIZED OR DEIONIZED WATER
	CAP		DOMESTIC COLD WATER
	CHECK VALVE		DOMESTIC HOT WATER
	CHECK VALVE, SILENT		DOMESTIC HOT WATER RETURN
	CIRCUIT SETTER		DOMESTIC HOT WATER (110°F)
	FLEXIBLE CONNECTOR		DOMESTIC HOT WATER (140°F)
	GENERAL VALVE, SEE SPECS		IRRIGATION WATER
	PRESSURE AND TEMPERATURE RELIEF		NATURAL GAS, LOW PRESS
	PRESSURE REDUCING VALVE		NATURAL GAS, MED PRESS
	RELIEF VALVE, ASME		NATURAL GAS, HIGH PRESS
	SOLENOID VALVE		PRIMARY ROOF DRAIN
	STRAINER		ROOF DRAIN
	TRIPLE DUTY VALVE		SECONDARY ROOF DRAIN
	UNION		STORM DRAIN
	RISER DOWN (ELBOW)		VENT, SANITARY SEWER
	RISER UP (ELBOW)		VENT, ACID WASTE
	RISE OR DROP		VENT, GREASE
	TEE DOWN		VACUUM
	TEE UP		WASTE, ACID
	TOP CONNECTION		WASTE, GREASE
	BOTTOM CONNECTION		WASTE, SANITARY SEWER
	SIDE CONNECTION	DEFINITION OF LINEWEIGHTS AND LINETYPES:	
	FLOW IN DIRECTION OF ARROW		DEMOLITION
	PIPE SLOPE IN DIRECTION OF ARROW		EXISTING TO REMAIN
	REMOVE EXISTING TO THIS POINT		NEW CONSTRUCTION
	TIE-IN TO EXISTING AT THIS POINT		DOMESTIC COLD WATER
	PUMP		DOMESTIC HOT WATER
	EQUIPMENT TAG		DOMESTIC HOT WATER RETURN
	EQUIPMENT NUMBER		SANITARY SEWER, ABOVE CEILING
	CLEANOUT PLUG		SANITARY SEWER, BELOW GRADE
	CLEANOUT, FLOOR		SANITARY VENT
	CLEANOUT, WALL		STORM SEWER
	HOSE BIBB		OUTLINE OF NEW EQUIPMENT INSTALLED ABOVE THE FLOOR SHOWN (I.E., ROOF)
	FREEZE PROOF WALL HYDRANT		
	GAS REGULATOR		
	FLOOR DRAIN		
	SHOWER DRAIN		
	FLOOR SINK		
	PRIMARY ROOF DRAIN		
	SECONDARY ROOF DRAIN		

**PLUMBING ABBREVIATIONS**

<b>A</b>	<b>L</b>
AAV AIR ADMITTANCE VALVE	LB POUND, POUNDS
AD AREA DRAIN	<b>M</b>
ADD ADDENDUM	M THOUSAND
ADJ ADJUSTABLE	MBH THOUSAND BTUH
AFF ABOVE FINISHED FLOOR	MFG MANUFACTURER
AV ACID VENT	MPG NATURAL GAS, MEDIUM PRESSURE
AVTR ACID VENT THRU THE ROOF	MIN MINIMUM
AW ACID WASTE	MISC MISCELLANEOUS
<b>B</b>	MSB MOP SERVICE BASIN
BFPD BACK FLOW PREVENTION DEVICE	<b>N</b>
<b>C</b>	NC NORMALLY CLOSED
CD CONDENSATE DRAIN	NIC NOT IN CONTRACT
CL CENTER LINE	NG NATURAL GAS
CO CLEANOUT	NO NORMALLY OPEN or NUMBER
CONT CONTINUATION	NOM NOMINAL
CP PUMPED CONDENSATE	NTS NOT TO SCALE
<b>D</b>	<b>P</b>
DCW DOMESTIC COLD WATER	PH PHASE
DF DRINKING FOUNTAIN	PRV PRESSURE REDUCING VALVE
DHW DOMESTIC HOT WATER	PRD PRIMARY ROOF DRAIN
DHWR DOMESTIC HOT WATER RETURN	PSI POUNDS PER SQUARE INCH
DI DEIONIZED WATER	PSIA POUNDS PER SQUARE INCH ABSOLUTE
DF DRINKING FOUNTAIN	PSIG POUNDS PER SQUARE INCH GAGE
DN DOWN	<b>R</b>
DS DISTILLED WATER	RD ROOF DRAIN
DWG DRAWING	RE REFER TO
DWV DRAIN WASTE AND VENT	REQD REQUIRED
<b>E</b>	RM ROOM
EEW EMERGENCY EYE WASH	RPM REVOLUTIONS PER MINUTE
ENGR ENGINEER	RPS REVOLUTIONS PER SECOND
EQUIP EQUIPMENT	RV RELIEF VALVE
ET EXPANSION TANK	RND, DIAMETER
EWC ELECTRIC WATER COOLER	<b>S</b>
EWK ELECTRIC WATER HEATER	SD STORM DRAIN
EWT ENTERING WATER TEMPERATURE	SS SANITARY SEWER or STAINLESS STEEL
<b>F</b>	SQIN SQUARE INCH/INCHES
F FAHRENHEIT	SQFT SQUARE FOOT/FEET
FCO FLOOR CLEANOUT	SRD SECONDARY ROOF DRAIN
FD FLOOR DRAIN	<b>T</b>
FLR FLOOR	TEMP TEMPERATURE
FPWH FREEZE PROOF WALL HYDRANT	THRU THROUGH
FMH FEET PER MINUTE	TMV THERMOSTATIC MIXING VALVE
FT FOOT, FEET	TYP TYPICAL
FS FLOOR SINK	<b>U</b>
<b>G</b>	UL UNDERWRITER'S LABORATORIES
G NATURAL GAS, LOW PRESSURE	UNO UNLESS NOTED OTHERWISE
GAL GALLON, GALLONS	UR URINAL
GPFF GALLONS PER FLUSH	<b>V</b>
GPH GALLONS PER HOUR	V VENT or VOLT
GPM GALLONS PER MINUTE	VAC VACUUM
GCO GRADE CLEAN OUT	VFD VARIABLE FREQUENCY DRIVE
GW GREASE WASTE	VTR VENT THRU THE ROOF
GWH GAS WATER HEATER	VTW VENT THRU THE WALL
<b>H</b>	<b>W</b>
HB HOSE BIBB	WAG WATER AND GAS
HD HEAD	W WATT
HP HORSEPOWER	WB WASHER BOX
HPG NATURAL GAS, HIGH PRESSURE	WC WATER CLOSET
<b>I</b>	WHA WATER HAMMER ARRESTOR
IN INCH, INCHES	<b>Y</b>
INV INVERT	YH YARD HYDRANT
INWC INCHES OF WATER COLUMN	
IW IRRIGATION WATER	
<b>K</b>	
KW KILOWATT	
K THOUSAND	



CYNTERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
W. TODD LESTER, PE  
ENGINEER OF RECORD

THE WHITTIER  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100

CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME

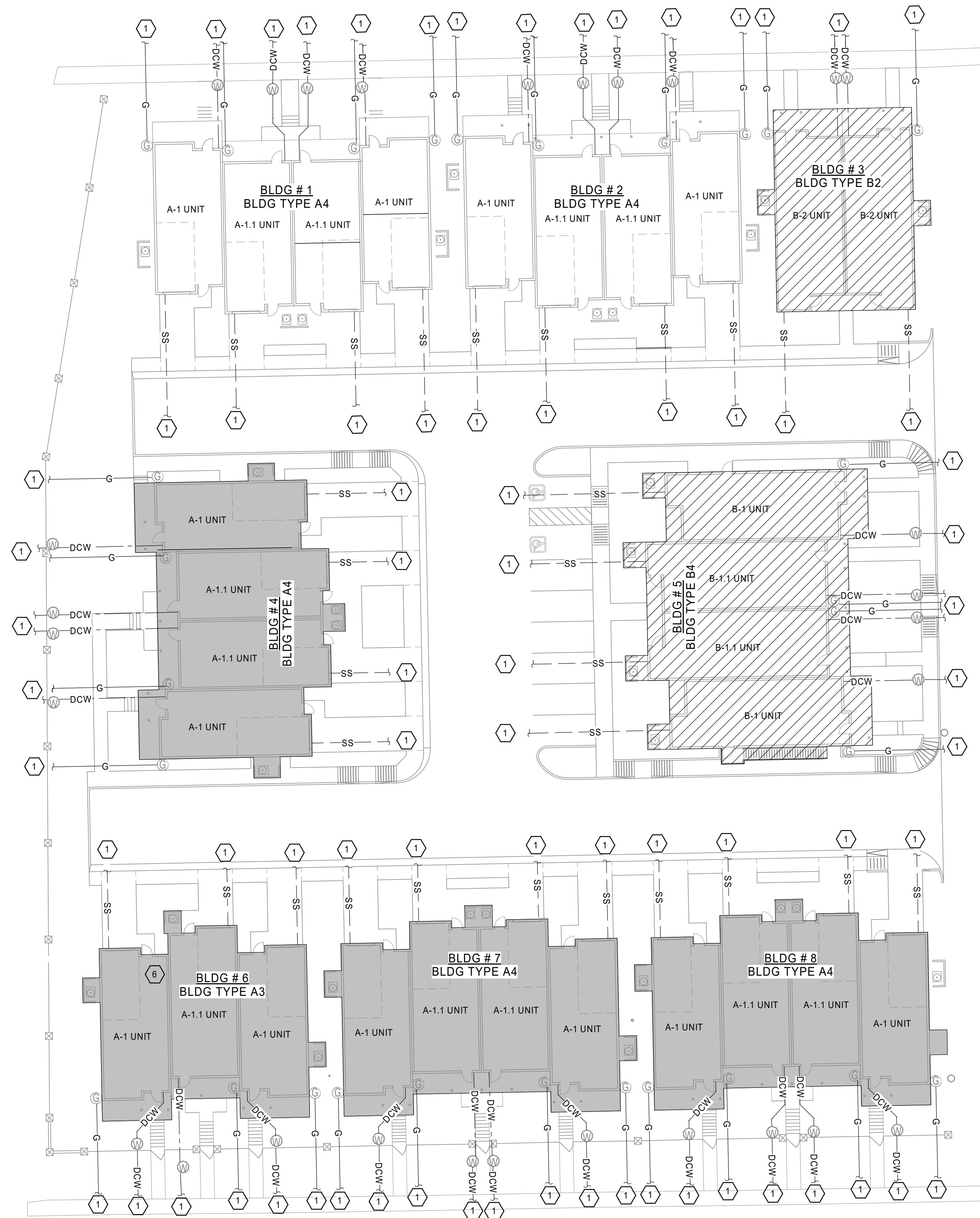
PLUMBING NOTES, LEGENDS,  
AND ABBREVIATIONS

SHEET NUMBER

P-001



Printed: 01/02/2023 2:45:38 PM  
 C:\Users\jg141\Documents\Reel\Tulsa Whittier\Highway\_Plan\_2018\_splha1.rvt



REFER TO CIVIL DRAWINGS FOR EXTENT OF SITE WORK FOR PHASE 1 AND PHASE 2.

**KEYNOTES**

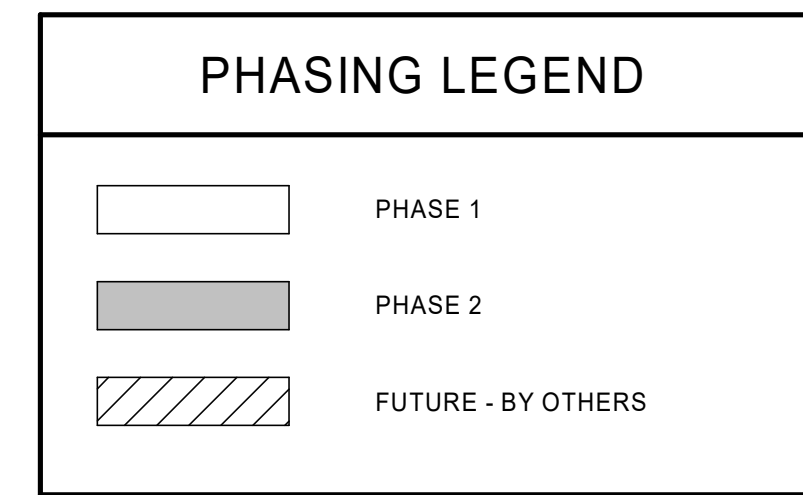
- REFER TO CIVIL FOR CONTINUATION.

**GENERAL NOTES**

- REFER TO SHEETS P-102 AND P-104 FOR CONTINUATION OF SANITARY INTO BUILDINGS.
- REFER TO SHEETS P-401 AND P-402 FOR CONTINUATION OF DOMESTIC WATER AND NATURAL GAS INTO BUILDINGS.
- CONTRACTOR TO VERIFY EACH FIXTURE IS OPERABLE AT DOWN TO 9" WC.

CONTRACTOR SHALL COORDINATE ALL DETAILS OF THE GAS PIPING SYSTEM WITH THE LOCAL GAS COMPANY. THIS SHALL INCLUDE GAS METER, GAS REGULATOR AND GAS PRESSURE REQUIREMENTS, GAS METER AND SERVICE REGULATOR TO BE PROVIDED AND INSTALLED BY UTILITY COMPANY. VERIFY CORRECT GAS PRESSURE DOWNSTREAM OF SERVICE REGULATOR AFTER GAS UTILITY COMPLETES INSTALLATION. THE NATURAL GAS DEMAND SHOWN IN MBH IS BASED ON A HEATING VALUE OF 1000 BTU (1 MBH) PER CUBIC FOOT, A SPECIFIC GRAVITY OF 0.6, AND ON PRIMARY EQUIPMENT INDICATED ON PLANS. GAS PIPING SIZES SHALL BE AS NOTED ON PLANS.

GAS COMPANY CONTACT:  
 OKLAHOMA NATURAL GAS  
 BRANDON RAINBOLT  
 (918) 831-8365



**1 PLUMBING SITE PLAN**  
 1" = 20'-0"



CYNERGY ENGINEERING, PLLC  
 CA # 3537  
 EXPIRES 6/30/2022  
 W. TODD LESTER, PE  
 ENGINEER OF RECORD

**THE WHITTIER**  
 BOOMTOWN DEVELOPMENT COMPANY  
 68 NORTH LEWIS  
 TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION

ISSUE DATE: 06/12/2020  
 PROJECT NO: P05093.0100  
 CHECKED BY: WTL  
 DRAWN BY: RAS

SHEET NAME  
**PLUMBING SITE PLAN**

SHEET NUMBER  
**P-101**



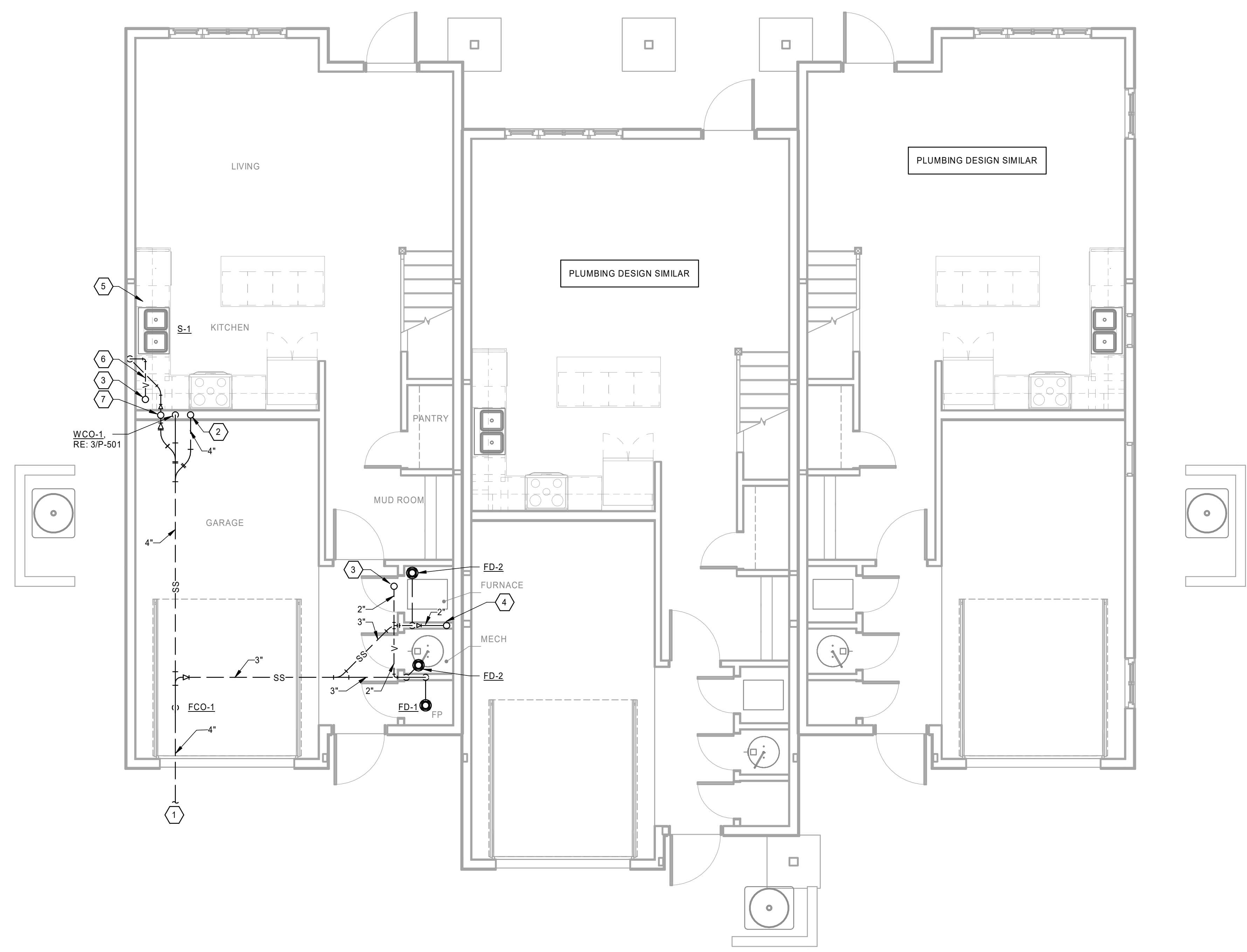
OKLAHOMA ONE-CALL  
 SYSTEM, INC.  
 1-800-552-6543  
 OR DIAL 811



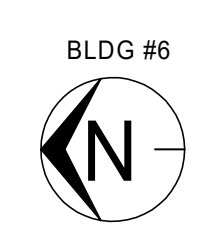
CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
W. TODD LESTER, PE  
ENGINEER OF RECORD

- KEYNOTES**
- 4" SS, RE: CIVIL FOR CONTINUATION.
  - 4" SS DOWN FROM SECOND FLOOR.
  - 2" VENT UP TO SECOND FLOOR.
  - 2" SS DOWN FROM WB-2 ON SECOND FLOOR.
  - DISHWASHER, CONNECT DRAIN TO TAILPIECE OF SINK WITH SYPHONIC LOOP IN DISHWASHER DRAIN.
  - ROUTE VENT ABOVE DUCT IN SOFFIT.
  - 3" SS DOWN FROM SECOND FLOOR.

- GENERAL NOTES**
- PLUMBING DESIGN SHOWN IS TYPICAL FOR ALL 'A' UNITS.
  - FURNACE CLOSET IS AN ENVIRONMENTAL AIR PLENUM. INSTALL PLENUM-RATED MATERIALS ONLY IN CLOSET.



**1 BLDG A3 - DWV FIRST FLOOR PLAN**  
1/4" = 1'-0"



REFER TO P-101 FOR PHASING PLAN

BLDG #6

Printed: 01/02/2020 2:45:39 PM  
C:\Users\jghill\Documents\Reel\Tulsa\Whittier\Hwy3\_Plan\_2018\_splha1.rvt

**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME  
**BUILDING A3 SANITARY PLAN**

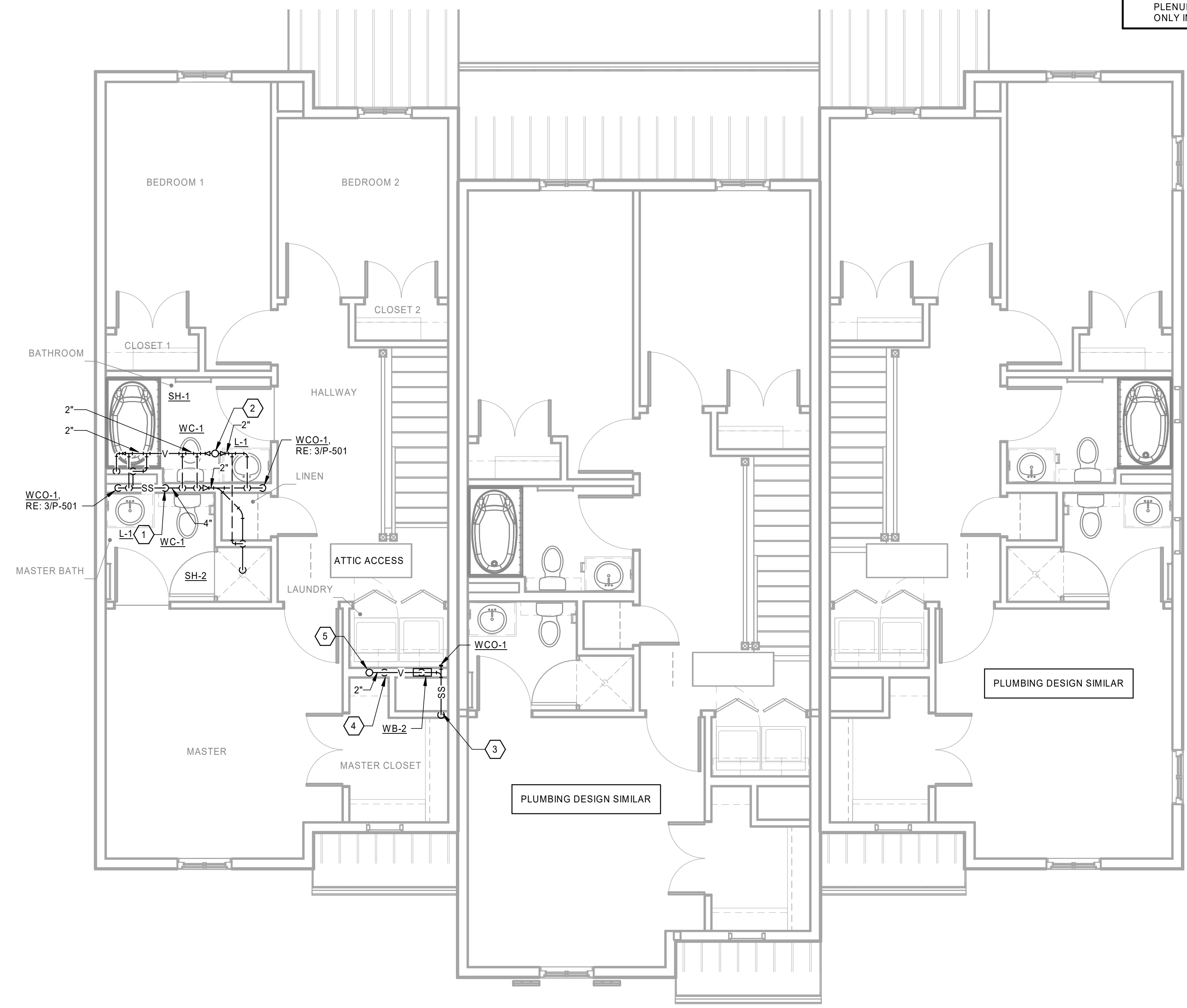
SHEET NUMBER  
**P-102**



CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
W. TODD LESTER, PE  
ENGINEER OF RECORD

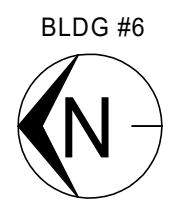
- ### KEYNOTES
- 4" SS DOWN TO FIRST FLOOR.
  - 3" VTR TO ROOF, RE: DETAIL 11/P-501.
  - 2" SS OFFSET FROM WB-2 BELOW FLOOR AND DOWN TO FIRST FLOOR IN WALL BENEATH.
  - 2" VENT UP FROM FIRST FLOOR.
  - 2" VTR TO ROOF, RE: DETAIL 11/P-501.
  - 3" SS OFFSET BELOW FLOOR AND DOWN TO FIRST FLOOR IN WALL BENEATH.

- ### GENERAL NOTES
- PLUMBING DESIGN SHOWN IS TYPICAL FOR ALL 'A' UNITS.
  - FURNACE CLOSET IS AN ENVIRONMENTAL AIR PLENUM. INSTALL PLENUM-RATED MATERIALS ONLY IN CLOSET.



REFER TO P-101 FOR PHASING PLAN

**1 BLDG A3 - DWV SECOND FLOOR PLAN**  
1/4" = 1'-0"



**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME  
**BUILDING A3 SANITARY PLAN**

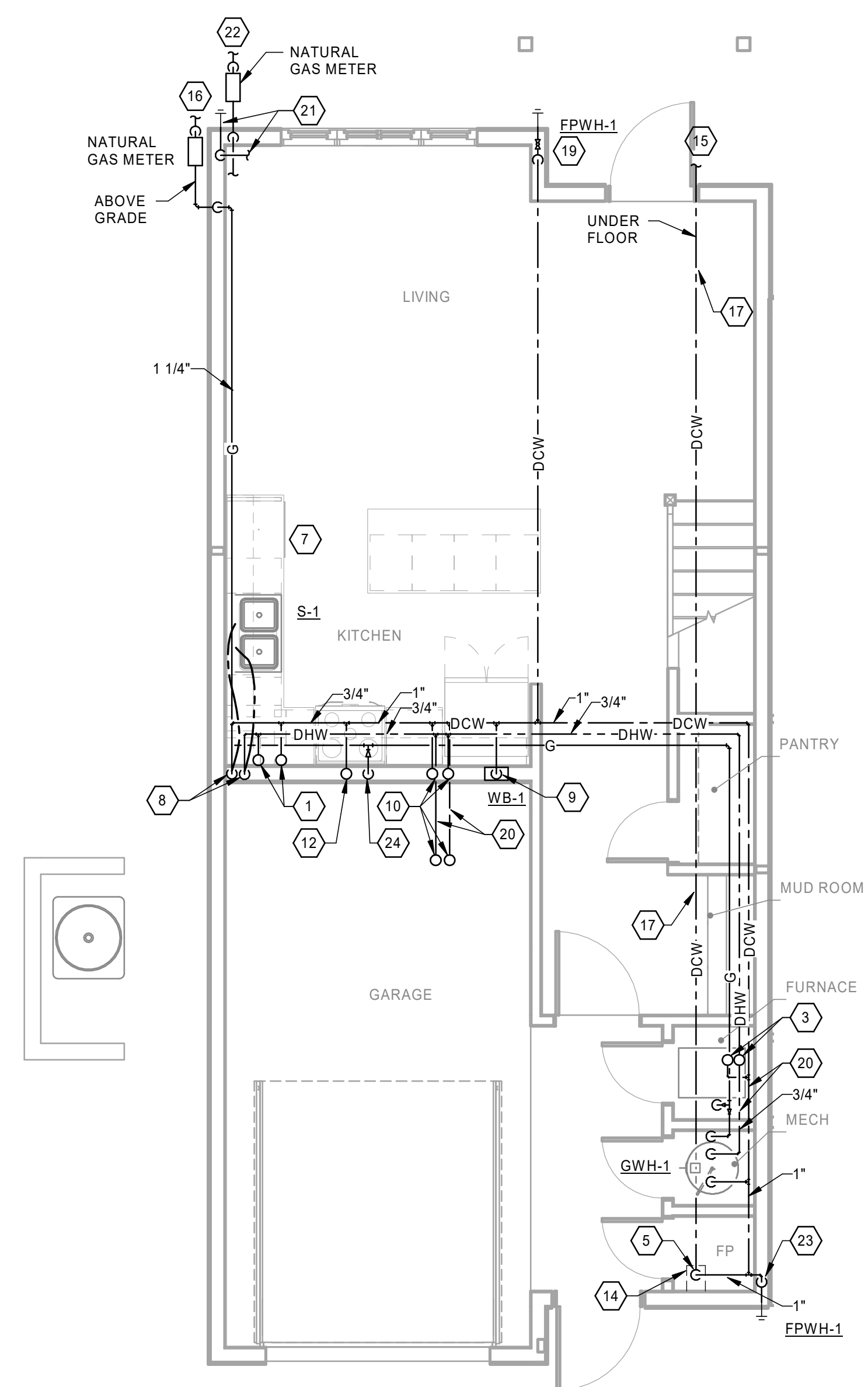
SHEET NUMBER  
**P-103**



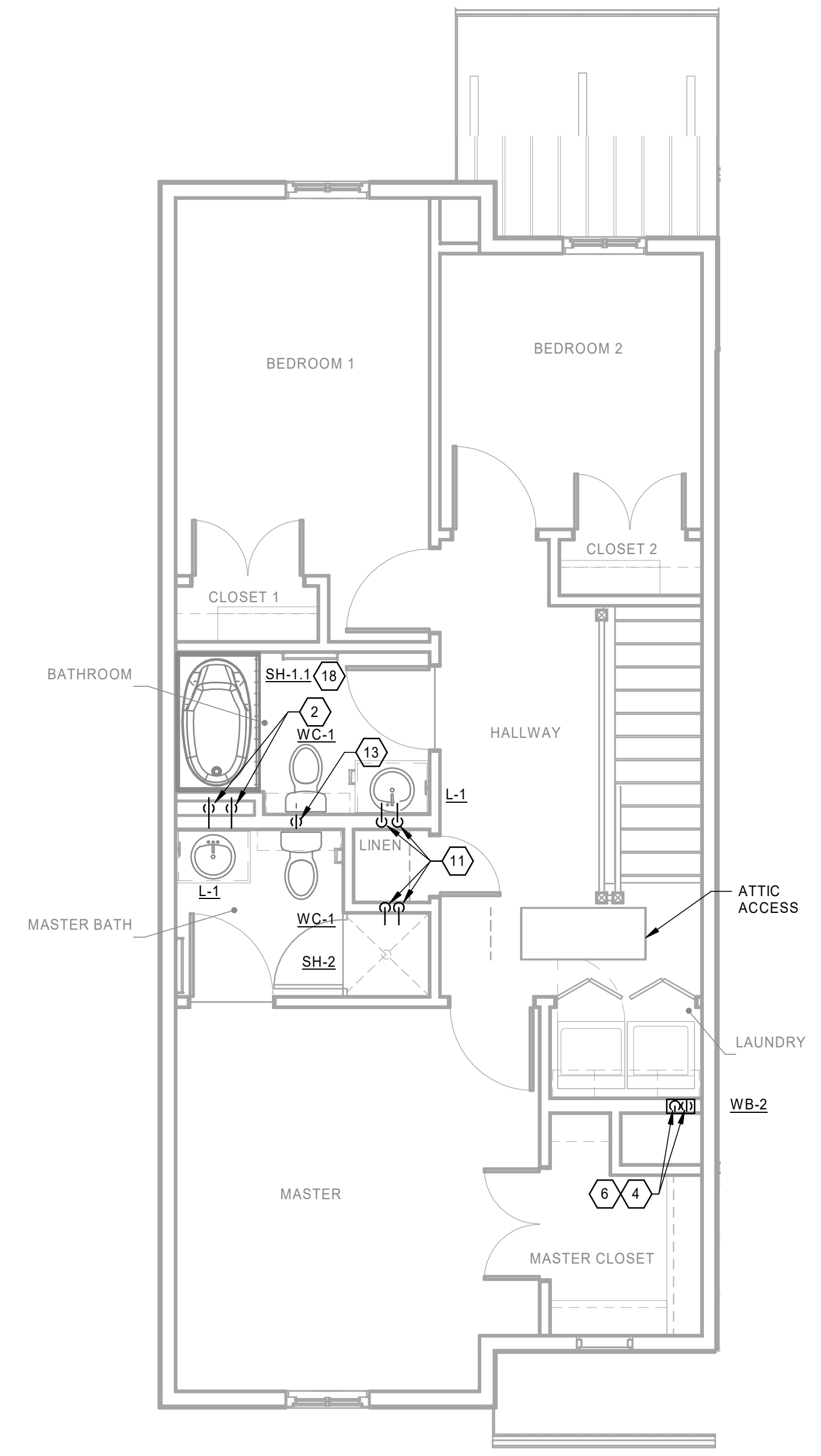
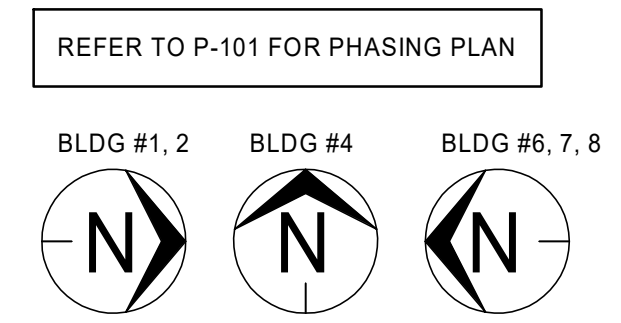
CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
W. TODD LESTER, PE  
ENGINEER OF RECORD

- ### GENERAL NOTES
- REFER TO SHEET P-101 FOR BUILDING ORIENTATIONS ON SITE.
  - FURNACE CLOSET IS AN ENVIRONMENTAL AIR PLENUM. INSTALL PLENUM-RATED MATERIALS ONLY IN CLOSET.

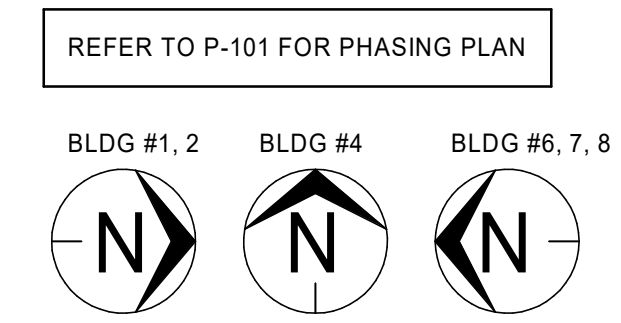
- ### KEYNOTES
- 3/4" DCW, 3/4" DHW UP TO SECOND FLOOR.
  - 3/4" DCW, 3/4" DHW UP FROM FIRST FLOOR.
  - 3/4" DCW, 3/4" DHW UP TO WB-2 ON SECOND FLOOR.
  - 3/4" DCW, 3/4" DHW UP FROM FIRST FLOOR.
  - WATER ENTRY. REFER TO DETAIL 7/P-501. PROVIDE SHUTOFF BALL VALVE FOR DOMESTIC WATER SERVICE. SHUTOFF VALVE TO BE ACCESSIBLE FROM DOORWAY.
  - WASHER BOX. REFER TO DETAIL 10/P-501.
  - DISHWASHER. CONNECT 3/8" DHW FROM SINK SUPPLY.
  - PIPES DOWN IN WALL ROUTE TO S-1 AND HOLD TIGHT TO BACK OF CABINET.
  - ICE MAKER BOX. REFER TO DETAIL 9/P-501.
  - 1/2" DCW, 1/2" DHW UP TO SECOND FLOOR.
  - 1/2" DCW, 1/2" DHW UP FROM FIRST FLOOR.
  - 3/4" DCW UP TO SECOND FLOOR.
  - 3/4" DCW UP FROM FIRST FLOOR.
  - PROVIDE 4" PVC SLEEVE FOR DOMESTIC WATER ENTRY. DOMESTIC WATER SERVICE UNDER SLAB SHALL BE ROLLED COPPER OR PEX-A PIPING IN A PVC SLEEVE WITH NO FITTINGS UNDER SLAB. RE: 8/P-502.
  - 2" DCW. RE: CIVIL FOR CONTINUATION.
  - NATURAL GAS. RE: CIVIL FOR CONTINUATION. TYPICAL OF 12 'A'-1' UNITS.
  - 2" DCW BELOW SLAB. DOMESTIC WATER SERVICE UNDER SLAB SHALL BE ROLLED COPPER OR PEX-A PIPING IN A PVC SLEEVE WITH NO FITTINGS UNDER SLAB. RE: 8/P-502.
  - SH-1.1 SHOWERS ARE AT ALL BATHROOMS WITHOUT WINDOWS. TYPICAL OF 17 'A' UNITS; SH-1 SHOWERS ARE ONLY IN BATHROOMS WITH WINDOWS. TYPICAL OF 6 'A' UNITS.
  - FPWH-1 IN CORNER OF WALL. TYPICAL OF 12 'A'-1' UNITS (ALL EXTERIOR 'A' UNITS. RE: 1/P-101). REFER TO DETAIL 4/S-003. INSTALL ON INTERIOR SIDE OF INSULATION. PROVIDE SHUTOFF VALVE BEHIND ACCESS PANEL.
  - ALL DOMESTIC WATER PIPING EXPOSED IN UNCONDITIONED GARAGE TO BE INSULATED WITH HT-1. COORDINATE REQUIRED LENGTH OF HEAT TRACE WITH AS-INSTALLED PIPING.
  - FPWH-1 IN CORNER OF WALL. TYPICAL OF 11 'A'-1' UNITS (ALL INTERIOR 'A' UNITS. RE: 1/P-101). REFER TO DETAIL 4/S-003. INSTALL ON INTERIOR SIDE OF INSULATION. CONTINUE TO DOMESTIC WATER MAIN. PROVIDE SHUTOFF VALVE BEHIND INTERIOR 12x12 ACCESS PANEL. ACCESS PANEL TO BE MOUNTED 18" AFF. RE: ARCH FOR FINISHES.
  - NATURAL GAS. RE: CIVIL FOR CONTINUATION. TYPICAL OF 11 'A'-1' UNITS. CONTINUE TO NATURAL GAS MAIN.
  - FPWH-1 IN CORNER OF WALL. REFER TO DETAIL 4/S-003. INSTALL ON INTERIOR SIDE OF INSULATION. PROVIDE SHUTOFF VALVE IN ACCESS LOCATION IN MECHANICAL CLOSET.
  - GAS PIPING DOWN IN WALL TO RANGE. PROVIDE STUB OUT IN WALL WITH SHUTOFF VALVE. VALVE SHALL BE INSTALLED PARALLEL WITH WALL TO ALLOW MAXIMUM DEPTH POSSIBLE TO INSTALL RANGE.



**1 ENLARGED A UNITS FIRST FLOOR WATER & GAS PLAN**  
1/4" = 1'-0"



**2 ENLARGED A UNITS SECOND FLOOR WATER & GAS PLAN**  
1/4" = 1'-0"



**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

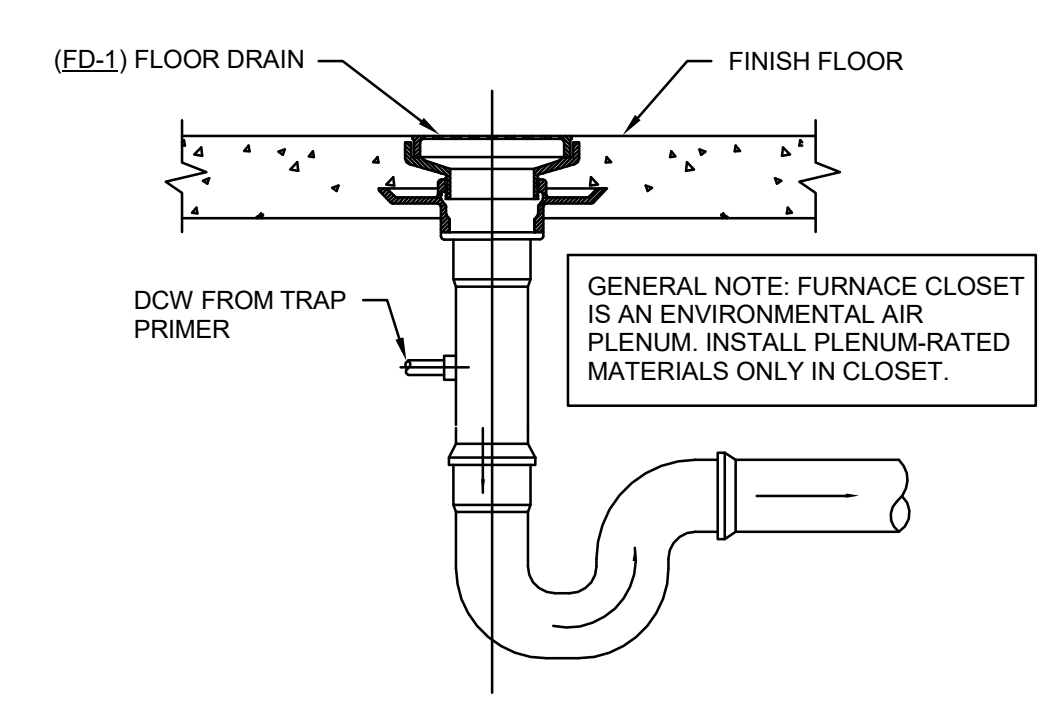
ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

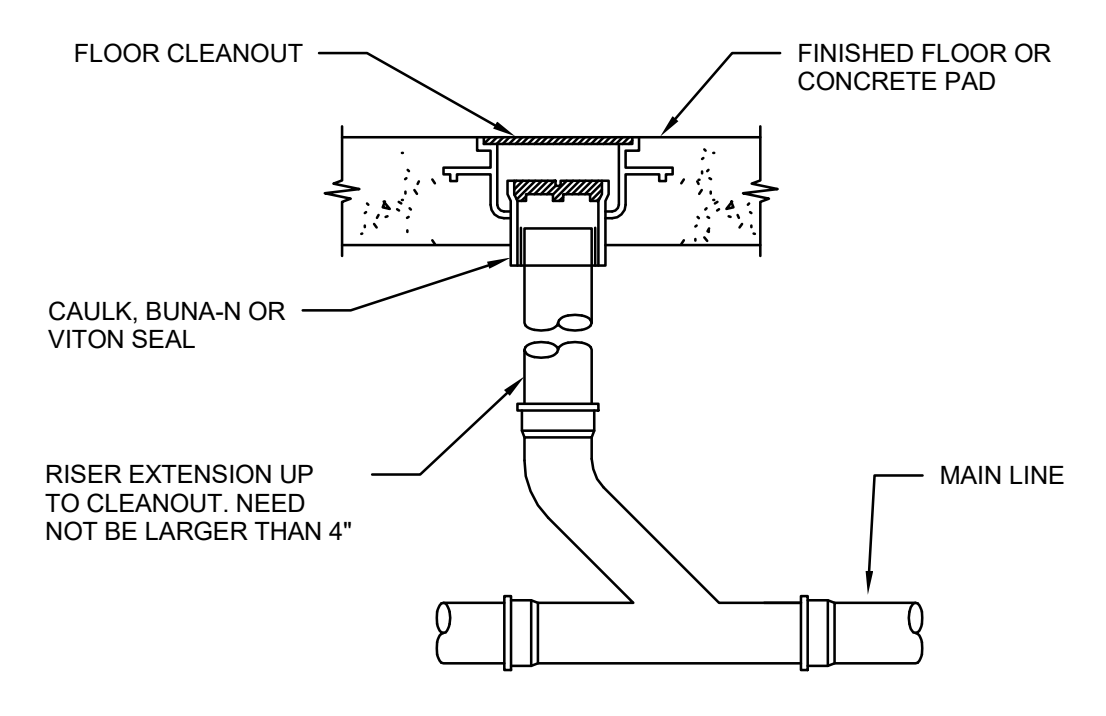
ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME  
ENLARGED A UNITS DOMESTIC WATER & GAS PLANS

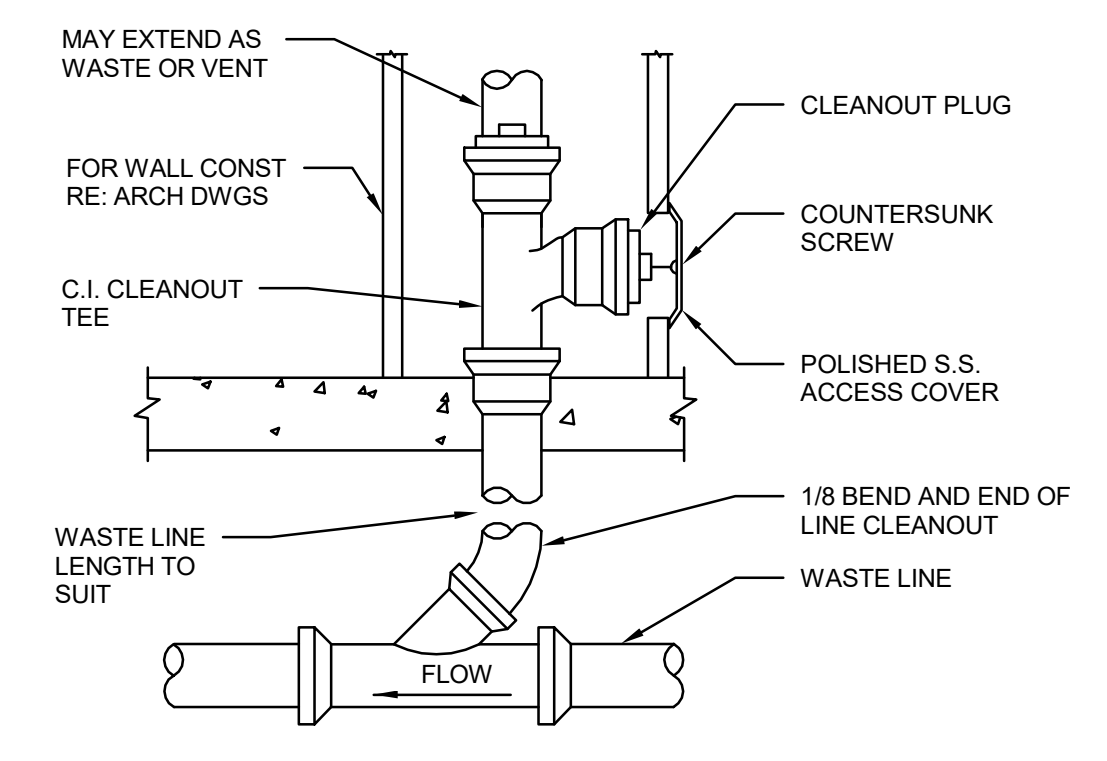
SHEET NUMBER  
**P-401**



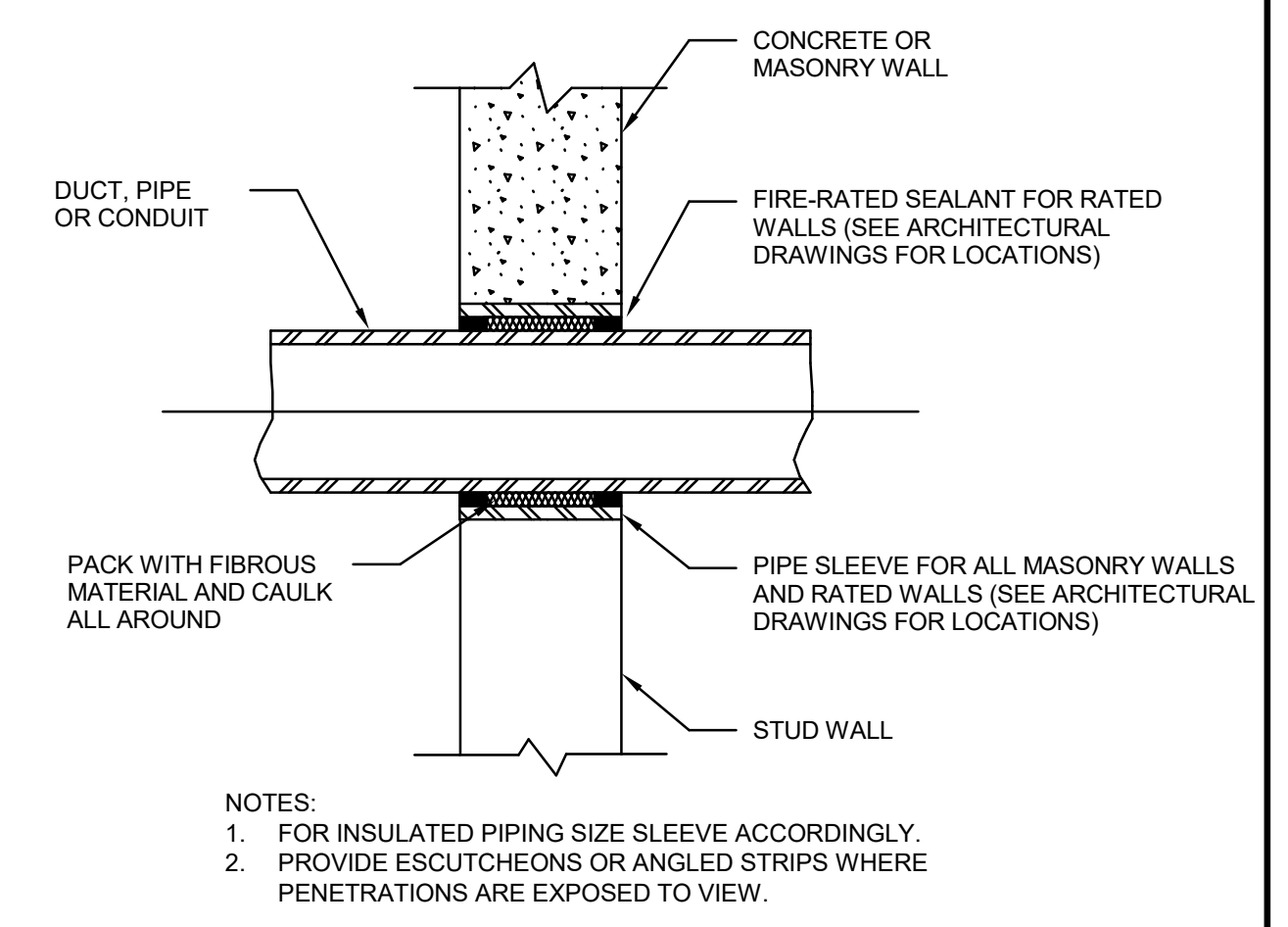
**1 FLOOR DRAIN DETAIL**  
NOT TO SCALE



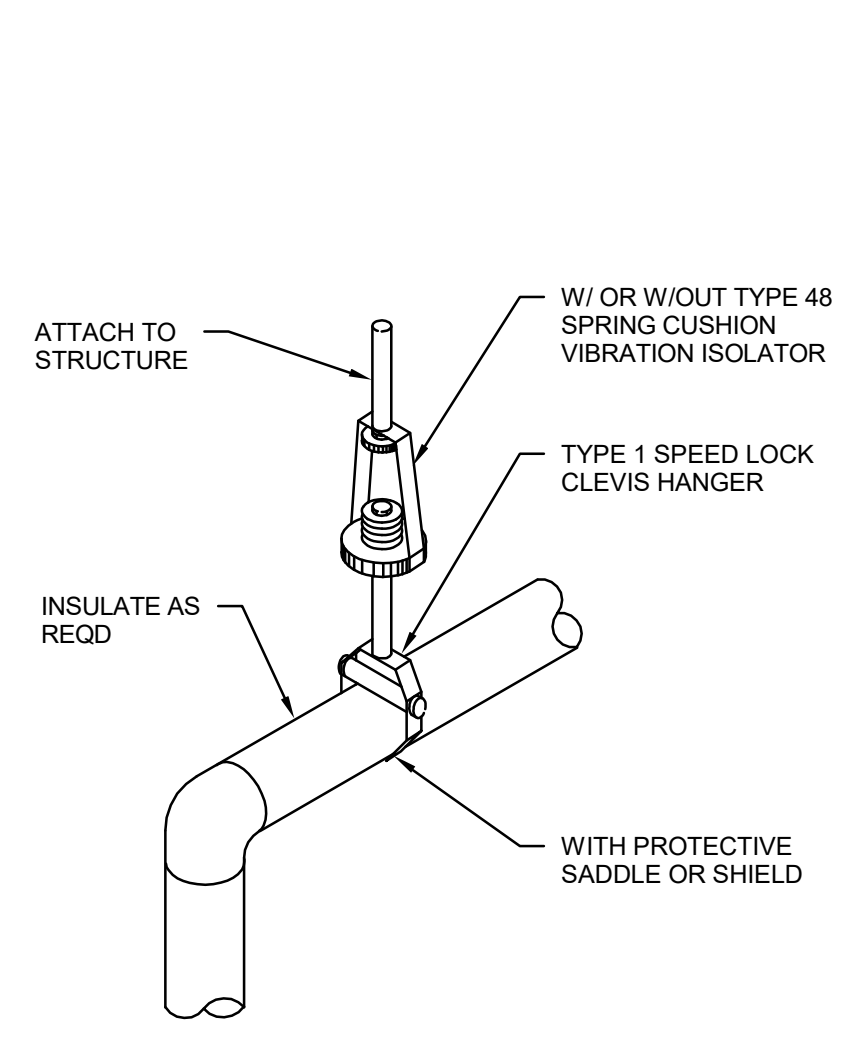
**2 FLOOR CLEANOUT DETAIL**  
NOT TO SCALE



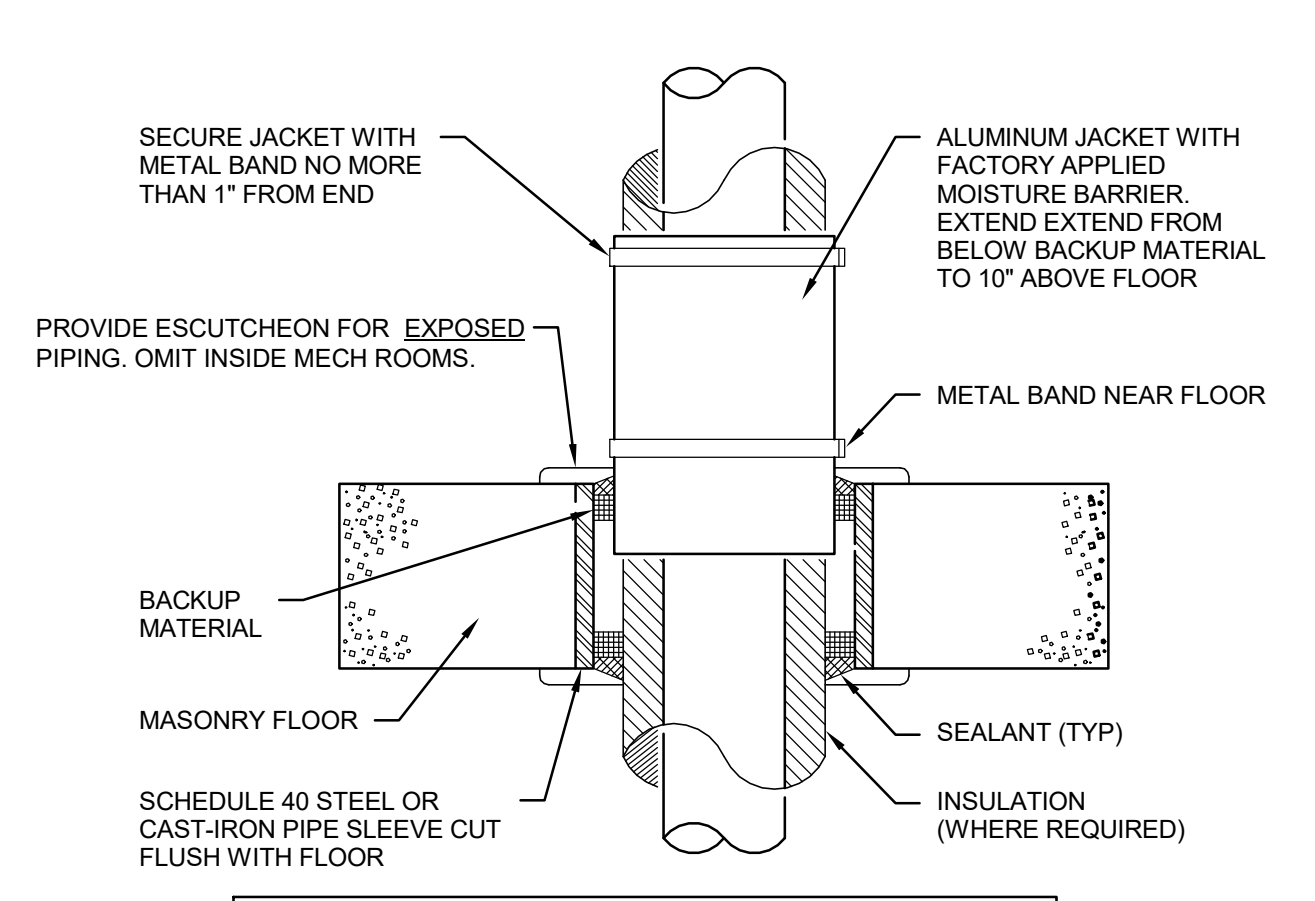
**3 WALL CLEANOUT DETAIL**  
NOT TO SCALE



**4 WALL PENETRATION DETAIL**  
NOT TO SCALE

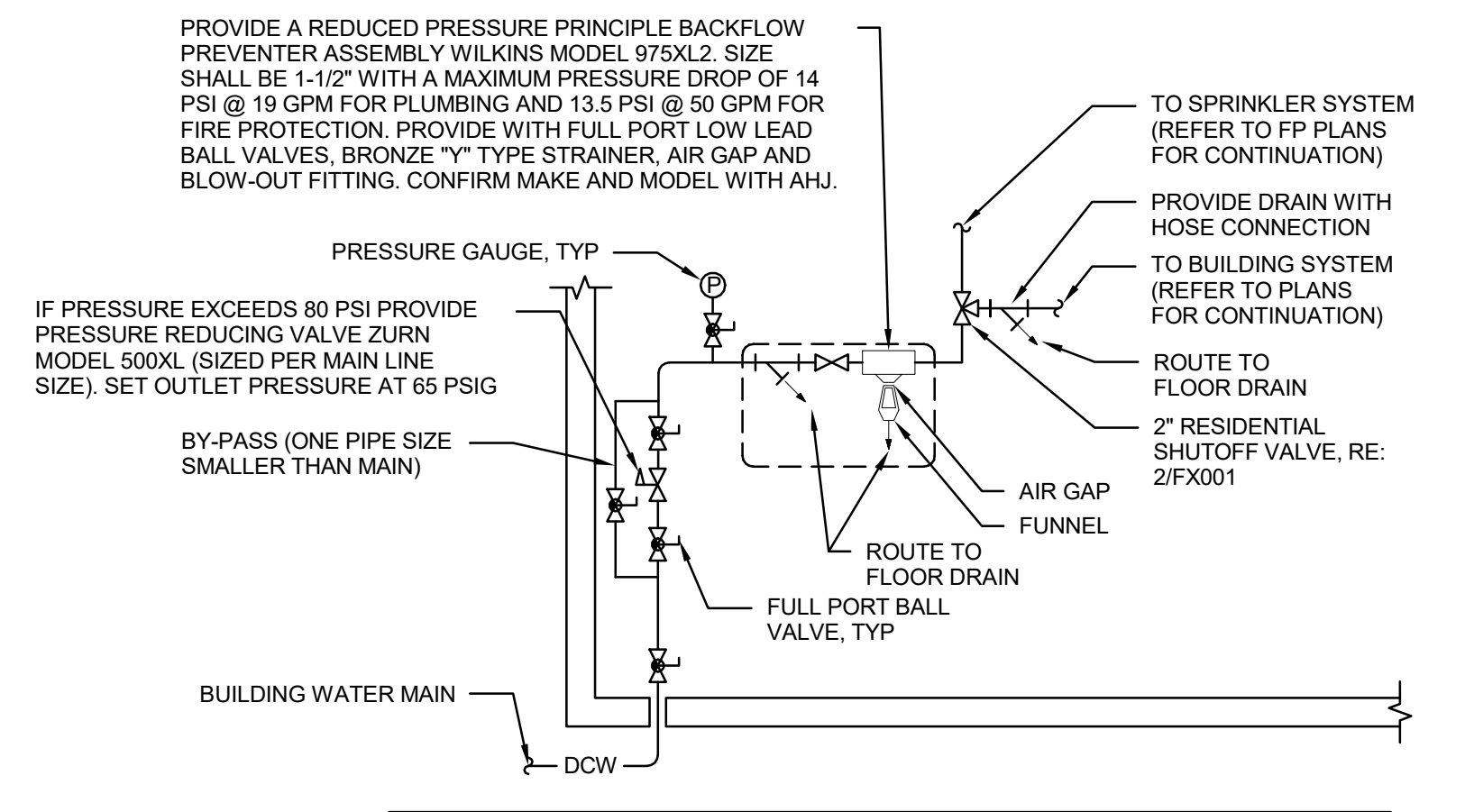


**5 TYPE-1 CLEVIS HANGER DETAIL**  
NOT TO SCALE



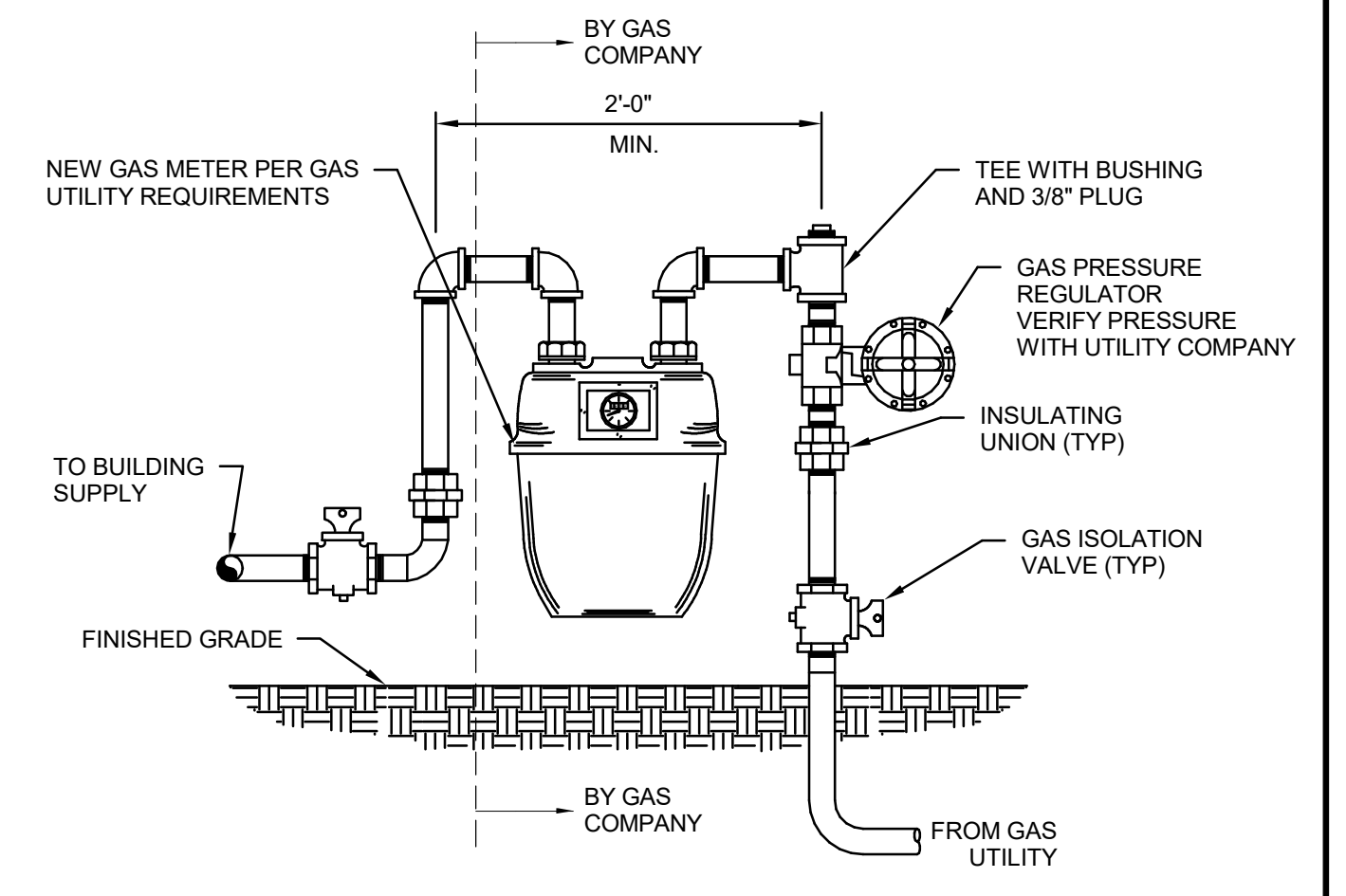
**DETAIL NOTES:**  
1. PROVIDE FIRE-RATED SEALANT FOR RATED WALLS (SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS).  
2. OMIT ALUMINUM JACKET IF PIPING IS UNINSULATED.

**6 FLOOR PENETRATION DETAIL**  
NOT TO SCALE

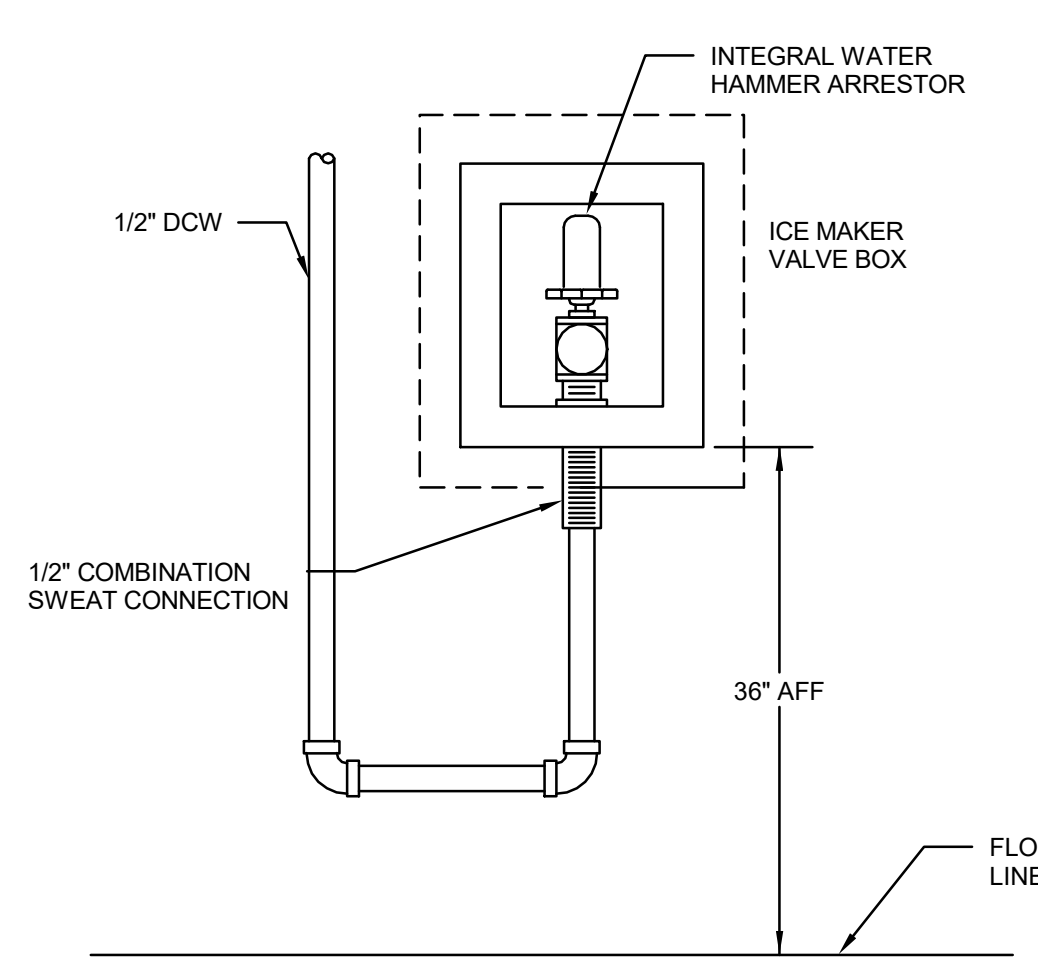


**DETAIL NOTES:**  
1. THE BFP MUST BE INSTALLED A MINIMUM OF 12" ABOVE GROUND AND NOT TO EXCEED 48" ABOVE GROUND. THE BFP MUST BE A MINIMUM OF 6" FROM THE NEAREST WALL. THE BFP MUST BE INSTALLED HORIZONTALLY.  
2. REFER TO PLANS FOR SIZES.

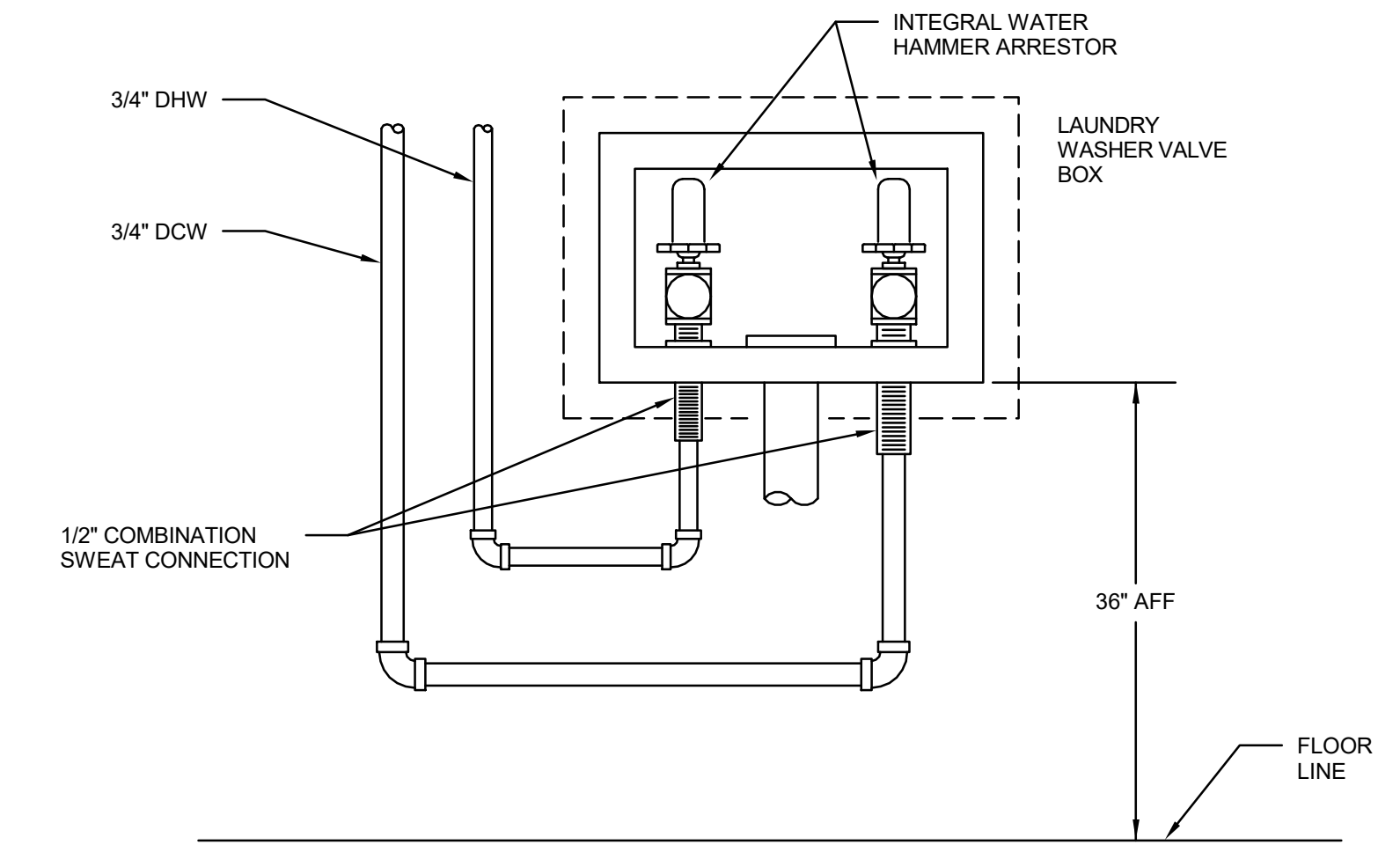
**7 DOMESTIC WATER ENTRY DETAIL**  
NOT TO SCALE



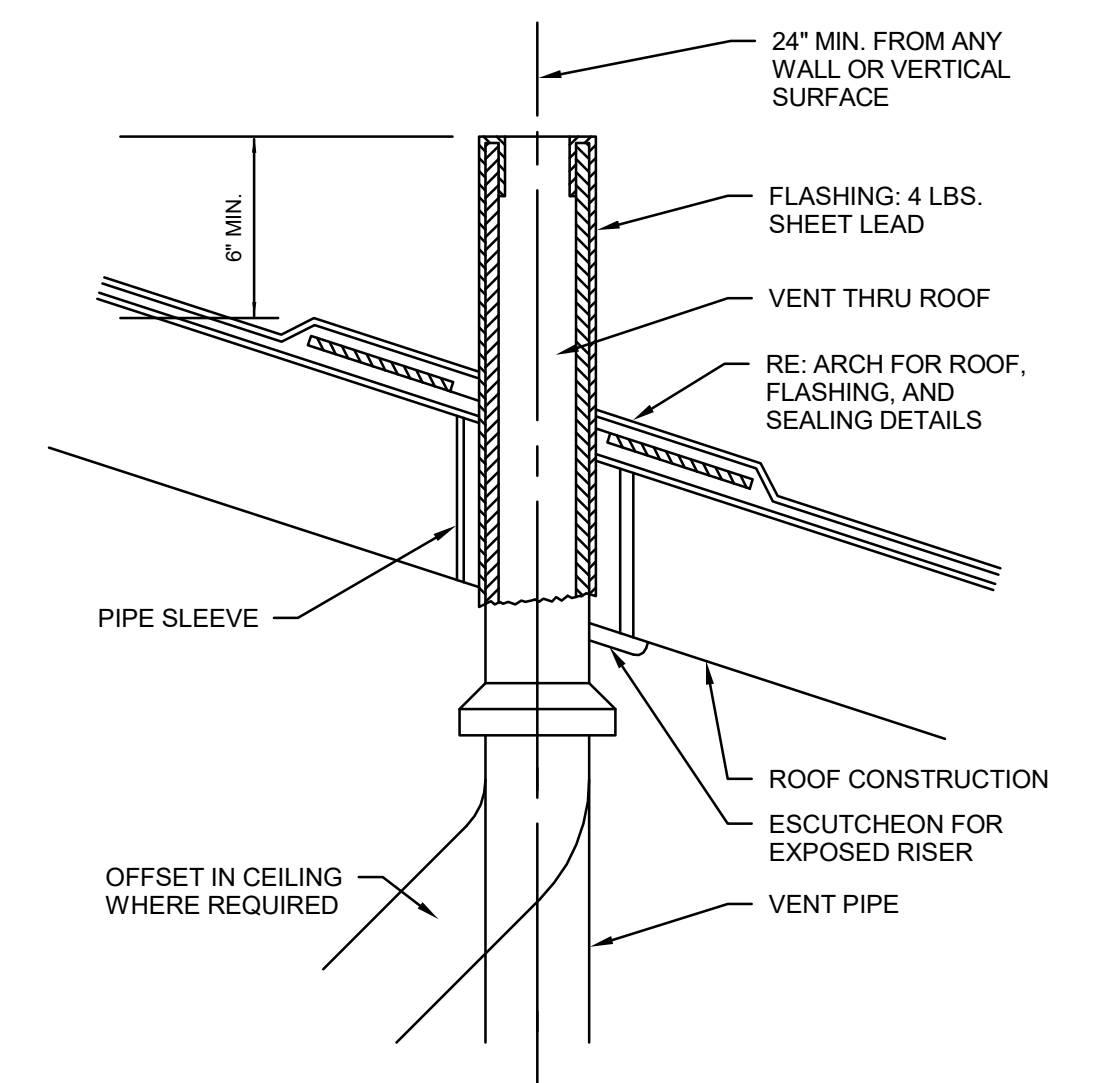
**8 GAS METER DETAIL**  
NOT TO SCALE



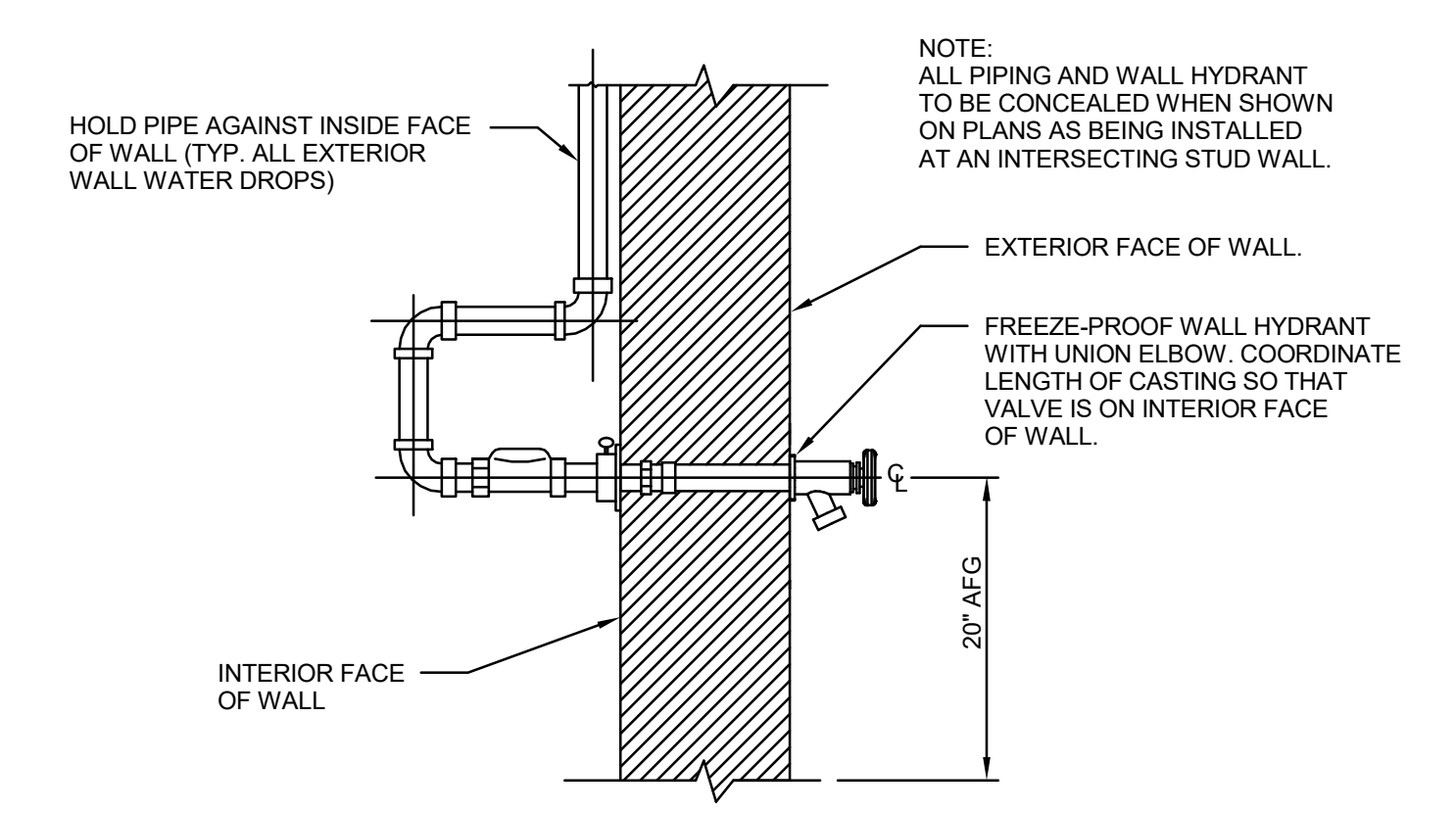
**9 ICE MAKER UTILITY BOX DETAIL**  
NOT TO SCALE



**10 LAUNDRY UTILITY BOX DETAIL**  
NOT TO SCALE



**11 VENT THROUGH ROOF DETAIL**  
NOT TO SCALE



**12 FREEZE PROOF WALL HYDRANT DETAIL**  
NOT TO SCALE

**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

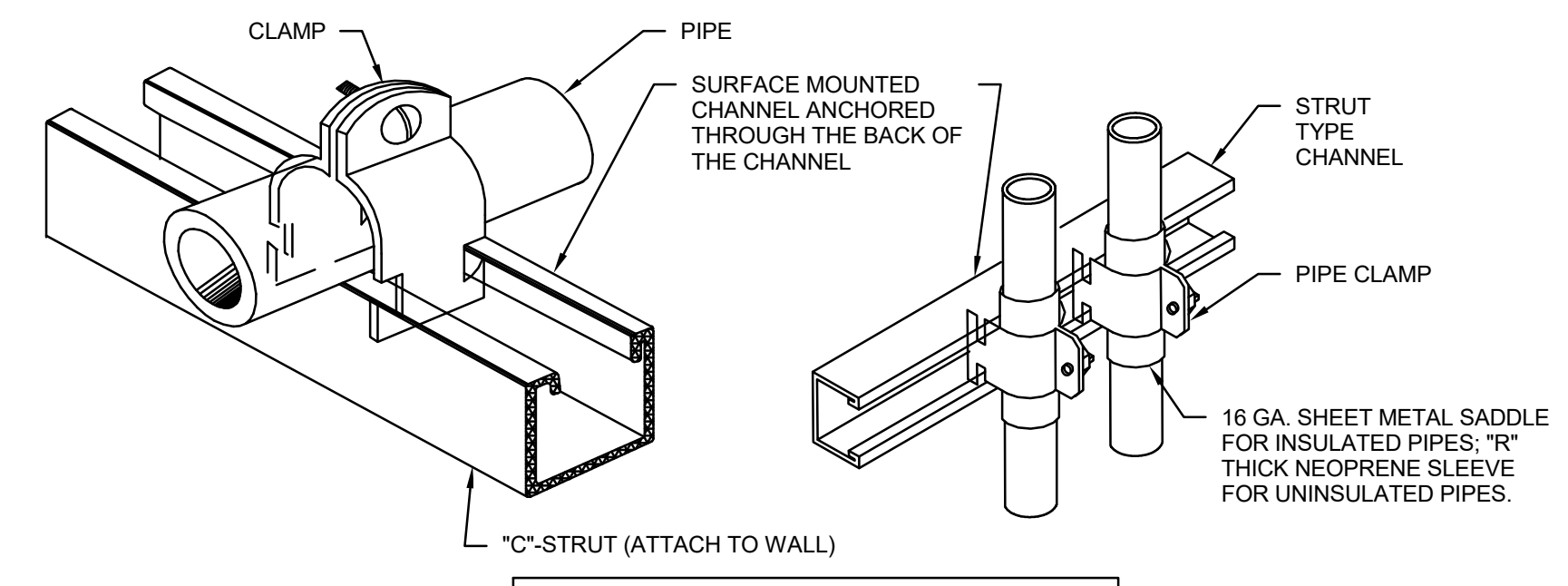
ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

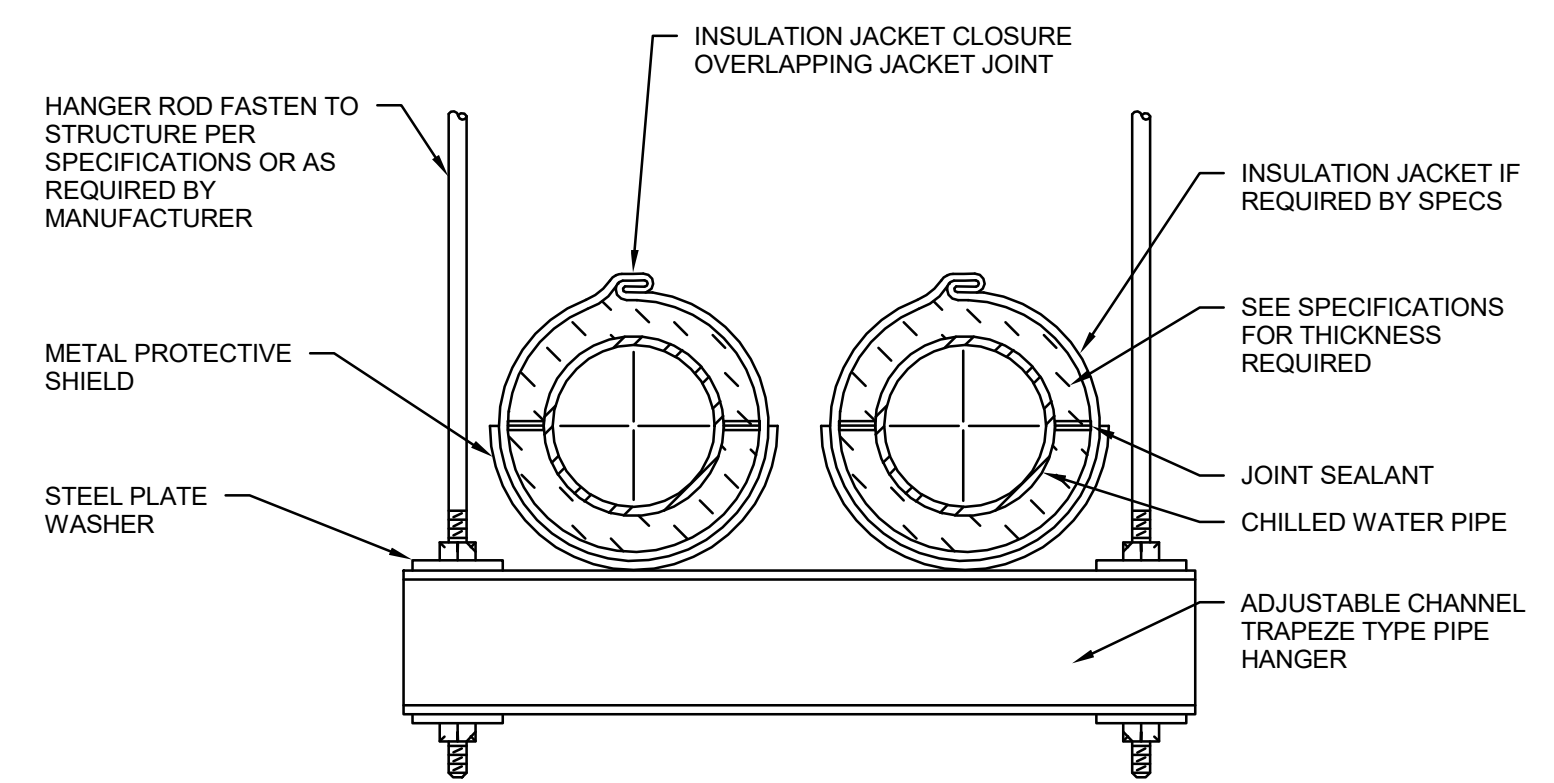
SHEET NAME  
PLUMBING DETAILS

SHEET NUMBER  
**P-501**

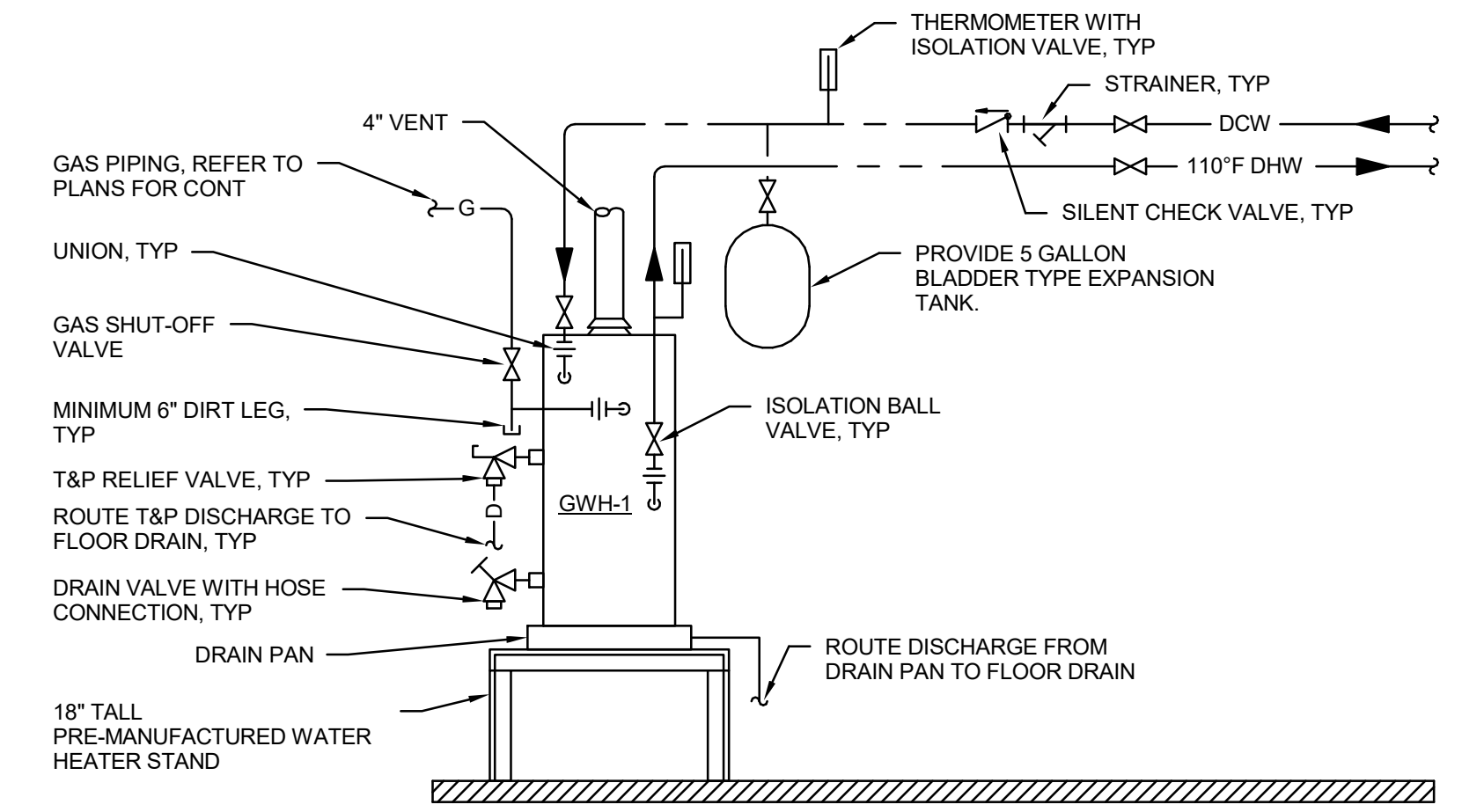


**DETAIL NOTES:**  
1. CLAMP AROUND PIPING INSULATION INSERT.  
2. 60" MAXIMUM SPACING BETWEEN SUPPORTS

**1 C-STRUT PIPE SUPPORT DETAILS**  
NOT TO SCALE

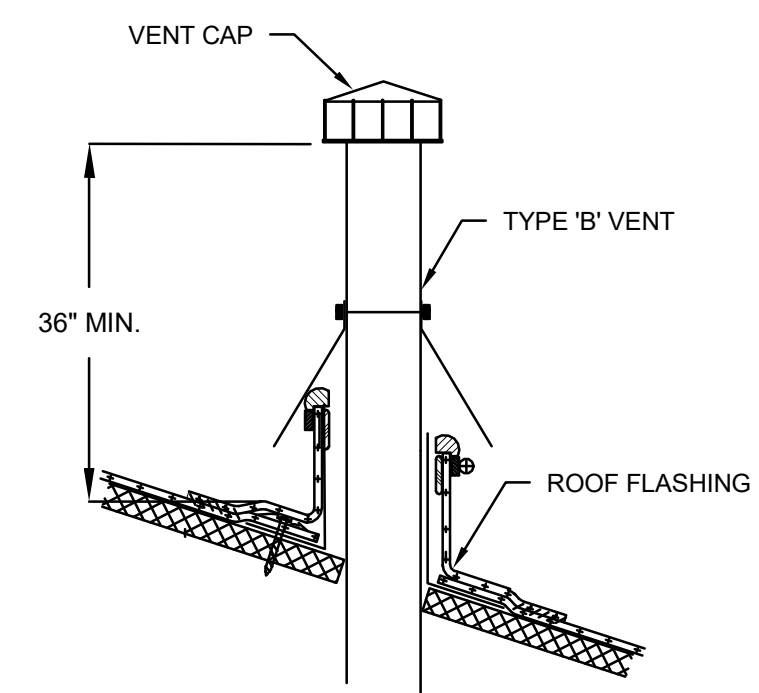


**2 CHANNEL TRAPEZE PIPE HANGER DETAIL**  
NOT TO SCALE

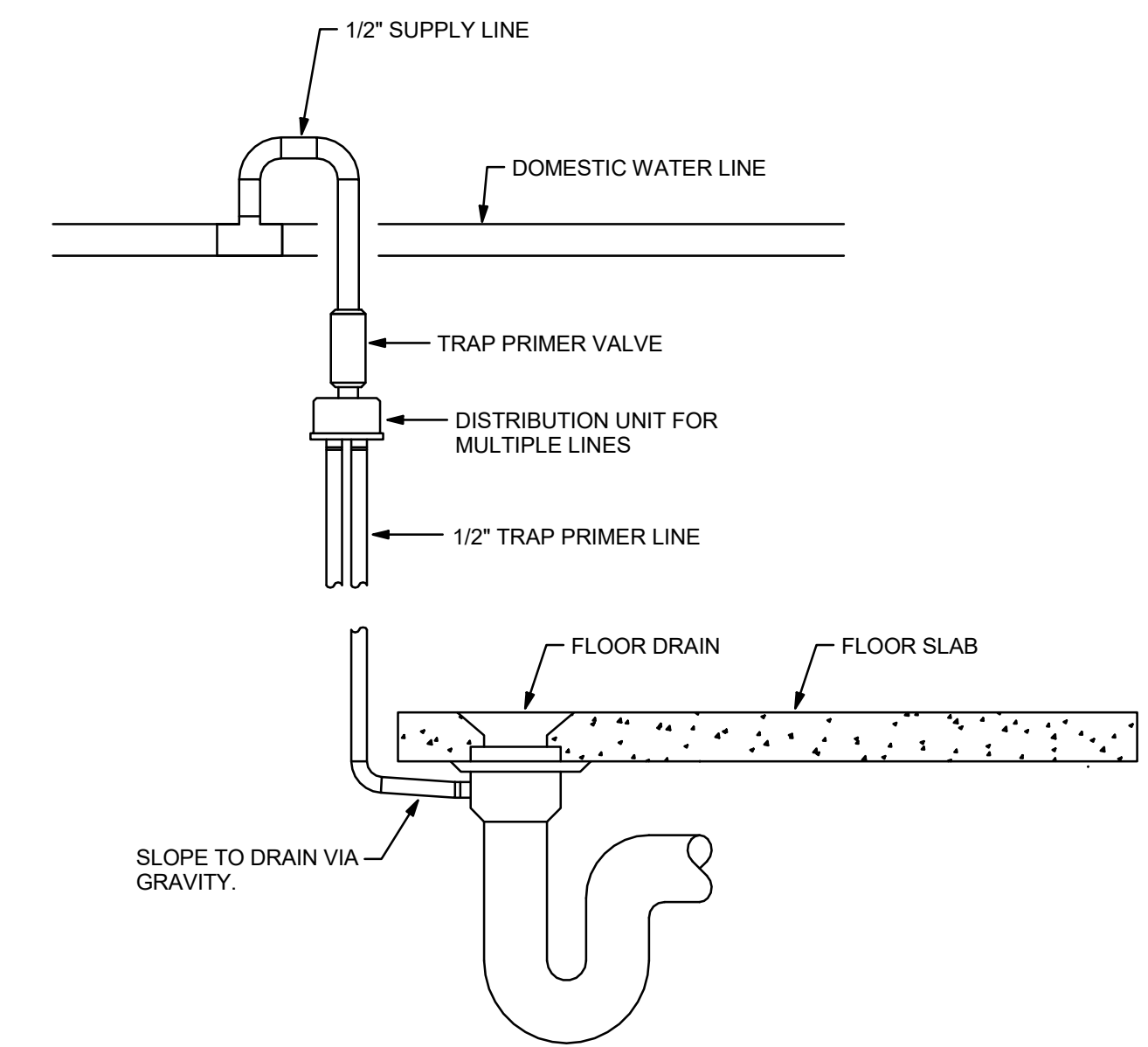


**DETAIL NOTE:**  
1. SCHEMATIC SHOWS DESIGN INTENT AND DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL THE HOT WATER HEATER PER MANUFACTURER'S INSTRUCTIONS AND PER LOCAL CODE.

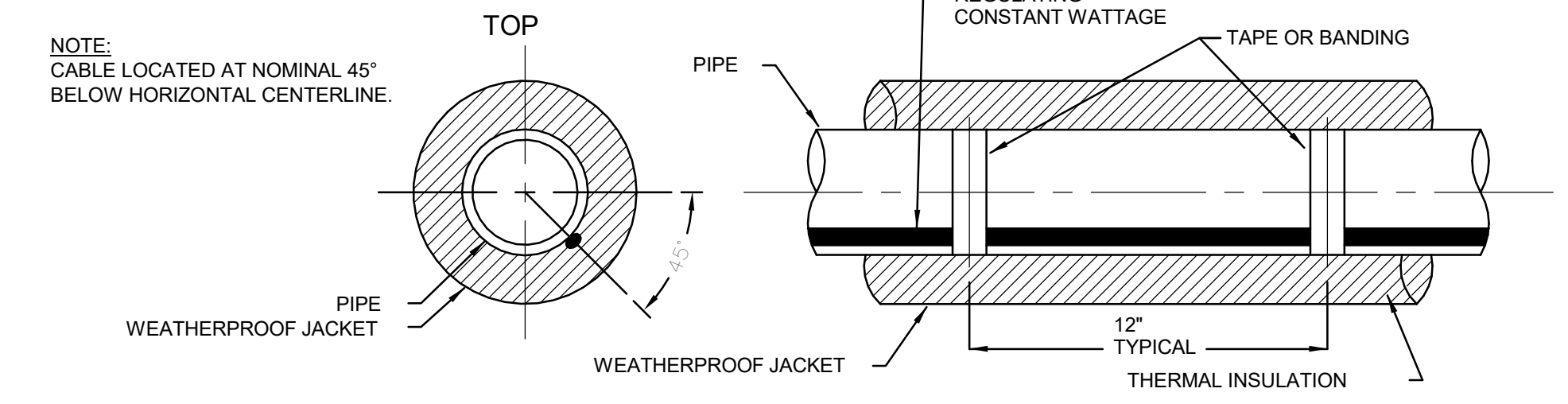
**3 GAS WATER HEATER DETAIL**  
NOT TO SCALE



**4 WATER HEATER FLUE DETAIL**  
NOT TO SCALE

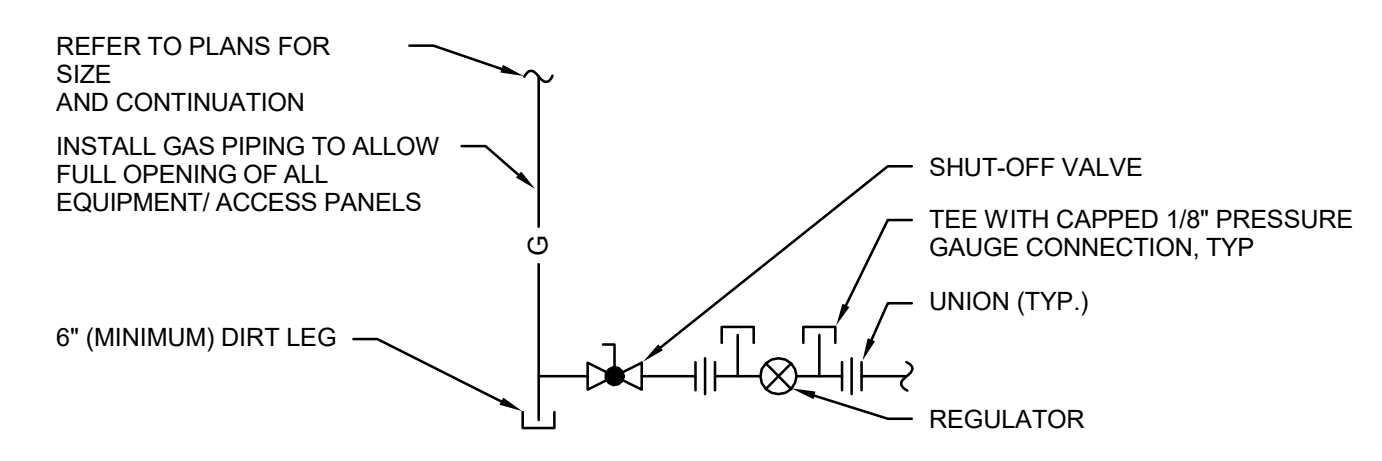


**5 TRAP PRIMER DETAIL**  
NOT TO SCALE



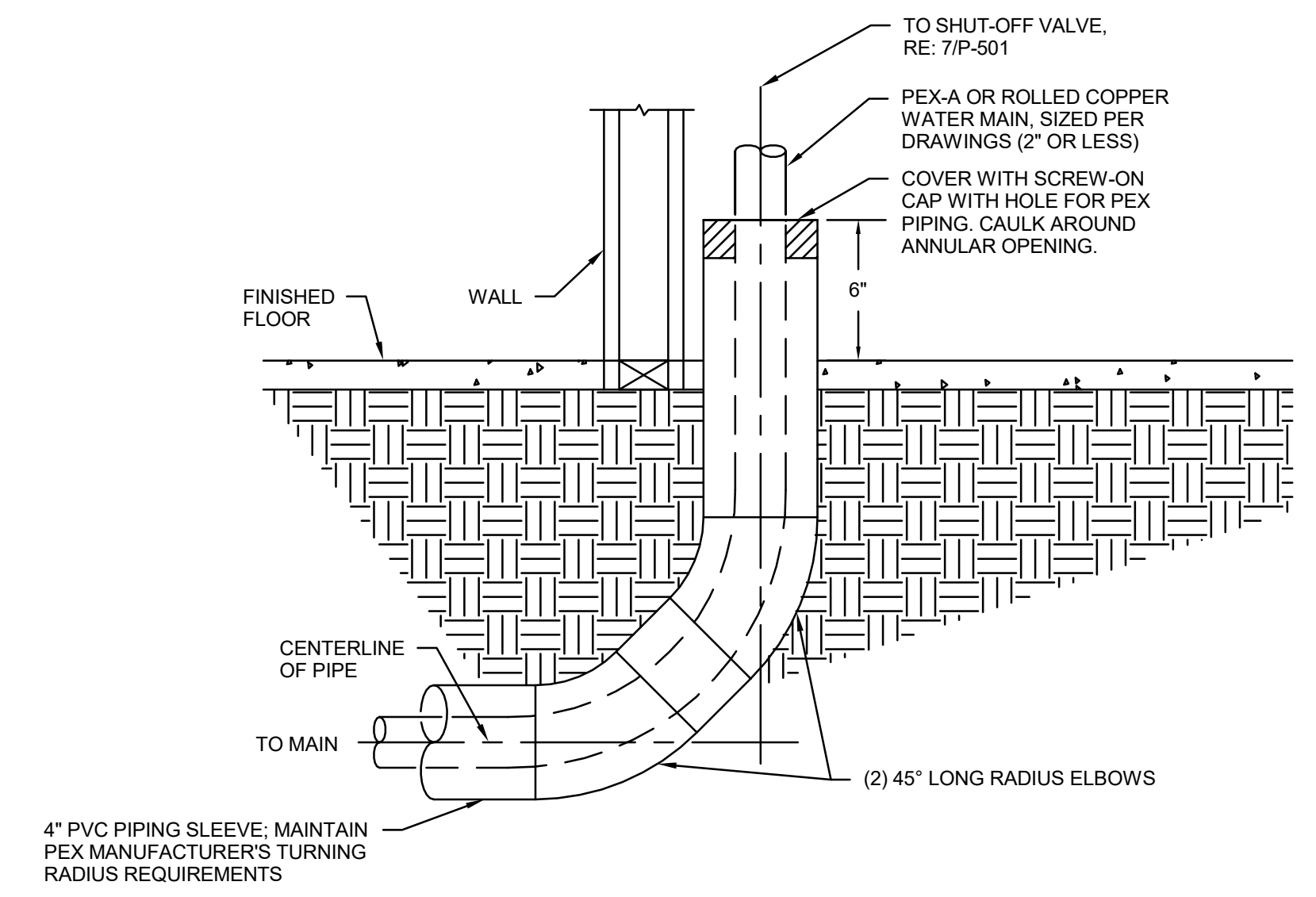
**6 HEAT TRACE DETAIL**  
NOT TO SCALE

**GENERAL NOTE:** FURNACE CLOSET IS AN ENVIRONMENTAL AIR PLENUM. INSTALL PLENUM-RATED MATERIALS ONLY IN CLOSET.



**DETAIL NOTE:**  
1. THE CONTRACTOR SHALL INSTALL THE GAS TRAIN PER THE SPECIFIC APPLIANCE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PER ALL LOCAL CODES AND ORDINANCES. THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND CODES AND ORDINANCES SHALL TAKE PRECEDENCE OVER SPECIFICATIONS AND DRAWINGS WHERE THERE IS A CONFLICT.

**7 GAS EQUIPMENT CONNECTION DETAIL**  
NOT TO SCALE



**8 UNDER FLOOR PIPE SLEEVE DETAIL**  
NOT TO SCALE

**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME  
**PLUMBING DETAILS**

SHEET NUMBER  
**P-502**



CYNTERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
W. TODD LESTER, PE  
ENGINEER OF RECORD

FLOOR DRAIN SCHEDULE								
MARK	FIXTURE	MANUFACTURER / MODEL NUMBER	TRIM	CONNECTIONS				REMARKS
				WASTE	VENT	DCW	DHW	
FD-1	SQUARE FLOOR DRAIN	ZURN ZN-Z41SS-P-VP	6"x6" SQUARE ADJUSTABLE POLISHED NICKEL-BRONZE STRAINER, TRAP PRIMER CONNECTION, VANDAL-PROOF SECURED TOP	3"	2"	1/2"	--	1,2,3
FD-2	CONDENSATE FLOOR DRAIN	ZURN ZN-Z41SL-P-VP	5-7/16" DIAMETER ROUND ADJUSTABLE POLISHED NICKEL-BRONZE STRAINER WITH RAISED FLANGE, TRAP PRIMER CONNECTION, VANDAL-PROOF SECURED TOP	3"	2"	1/2"	--	1,2,3

REMARKS:  
1. REFER TO ARCHITECTURAL FOR FLOOR DRAIN LOCATIONS, COORDINATE WITH FLOOR FINISH AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  
2. DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, POLISHED NICKEL BRONZE STRAINER, SQUARE HEEL-PROOF, LIGHT DUTY STRAINER.  
3. PROVIDE TRAP PRIMER CONNECTION AND PRESSURE DROP ACTIVATED TRAP PRIMER - MIFAB MODEL (M-500). FIELD COORDINATE LOCATION OF TRAP PRIMER IN AN ACCESSIBLE, CONCEALED LOCATION.

GAS WATER HEATER SCHEDULE							
MARK	MANUFACTURER MODEL	AREA SERVED	STORAGE CAPACITY (GALLONS)	RECOVERY (GPH) 90° RISE	GAS INPUT (MBH)	LISTING	REMARKS
GWH-1	A.O. SMITH GCR-40	LIVING UNIT	38	42	40	AGA, UL	ALL

REMARKS:  
1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.  
2. WATER HEATER FURNISHED AND INSTALLED BY CONTRACTOR.  
3. WATER HEATER STAND FURNISHED AND INSTALLED BY CONTRACTOR.  
4. THERMAL EXPANSION TANK FURNISHED AND INSTALLED BY CONTRACTOR.  
5. SET DISCHARGE TEMPERATURE OF WATER HEATER TO OPERATE AT 110°F.  
6. FIELD VERIFY SITE GAS PRESSURE AND PROVIDE UNIT WITH COMPATIBLE GAS TRAIN. PROVIDE VENT FROM PRESSURE REDUCING VALVE (IF REQUIRED) TO OUTDOORS.  
7. TEMPERATURE AND PRESSURE RELIEF VALVE FURNISHED AND INSTALLED BY CONTRACTOR.  
8. REFER TO 3IP-502 FOR ADDITIONAL COMPONENTS AND CONFIGURATION.

EXPANSION TANK SCHEDULE						
MARK	MANUFACTURER MODEL	SERVICE	TANK VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	WEIGHT (LBS)	REMARKS
ET-1	BELL & GOSSETT PT-12	DOMESTIC HOT WATER	5	3.2	9	1,2

REMARKS:  
1. INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND REQUIREMENTS FOR WARRANTY.  
2. REFER TO 3IP-502 FOR ADDITIONAL COMPONENTS AND CONFIGURATION.

UNIT A NATURAL GAS SUMMARY SCHEDULE					
APPLIANCE MARK	QUANTITY	GAS LOAD (MBH)	BRANCH PIPE SIZE (IN)	MAX DEVELOPED DISTANCE FROM REGULATOR (FT)	MAIN SIZE (IN)
GWH-1	1*	40	1/2"		
F-A1	1	44	1/2"		
RANGE	1	61	3/4"		
BUILDING TOTAL		145		140	1-1/4"

NOTES:  
1. SIZING BASED ON THE 150 FT COLUMN OF TABLE 402.4(1) OF THE 2015 INTERNATIONAL FUEL GAS CODE.  
2. \* DENOTES FURTHEST FIXTURE FROM NATURAL GAS REGULATOR.  
3. BASED UPON LOW PRESSURE NATURAL GAS 14" WC.  
4. CONTRACTOR TO VERIFY EACH FIXTURE IS OPERABLE AT DOWN TO 9" WC.

PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUFACTURER MODEL	TRIM	CONNECTIONS				REMARKS	
				WASTE	VENT	DCW	DHW		
WC-1	WATER CLOSET (FLOOR MOUNT, TANK TYPE, 2 PIECE)	PROFLO PFCT101HE	1.28 GPF; FLOOR-MOUNTED, STANDARD HEIGHT; SEAT: CLOSED FRONT WITH COVER, ELONGATED; FIXTURE COLOR: WHITE	4"	2"	1/2"	--	1,4	
L-1	LAVATORY (COUNTERTOP, SELF-RIMMING, ADA)	PROFLO PF194RWH	FAUCET: PROFLO MODEL PFWSC2840BN 3-HOLE INSTALLATION, SINGLE-HANDLE LEVER, BRUSHED NICKEL; POP-UP DRAIN; FIXTURE COLOR: WHITE	2"	1 1/2"	1/2"	1/2"	1,4,5,6,7	
S-1	SINK (DOUBLE COMPARTMENT, DROP-IN)	PROFLO PFCS100	CHROME POLISHED FAUCET, STAINLESS STEEL SINK, PROVIDE WITH CHROME SIDE SPRAYER.	2"	1 1/2"	1/2"	1/2"	1,4,5,7,8,9	
SH-1	SHOWER (TUB W/ TILE SURROUND)	AQUARIUS BATHWARE G 6032 TO	FIXTURE COLOR: WHITE, SHOWER HEAD/VALVE: PROFLO MODEL PF2830BN (PRESS. BALANCE, PRESS. & TEMP. CONTROL), BRUSHED NICKEL. PROVIDE WITH MANUFACTURER'S DRAIN. CONTRACTOR TO VERIFY LEFT HAND VS. RIGHT HAND INSTALLATION PRIOR TO ORDERING.	--	--	1/2"	1/2"	1,7	
SH-1.1	SHOWER (PRE-MANUFACTURED SHOWER/TUB INSERT)	AQUARIUS BATHWARE G 6063 TS	FIXTURE COLOR: WHITE, SHOWER HEAD/VALVE: PROFLO MODEL PF2830BN (PRESS. BALANCE, PRESS. & TEMP. CONTROL), BRUSHED NICKEL. PROVIDE WITH MANUFACTURER'S DRAIN. CONTRACTOR TO VERIFY LEFT HAND VS. RIGHT HAND INSTALLATION PRIOR TO ORDERING.	--	--	1/2"	1/2"	1,7	
SH-2	SHOWER (PRE-MANUFACTURED SHOWER INSERT)	AQUARIUS BATHWARE CHG 3636 SH	FIXTURE COLOR: WHITE, SHOWER HEAD/VALVE: PROFLO MODEL PF2820BN (PRESS. BALANCE, TEMP. CONTROL), BRUSHED NICKEL. PROVIDE WITH MANUFACTURER'S DRAIN.	--	--	1/2"	1/2"	1,7	
FPWH-1	FREEZE PROOF WALL HYDRANT	WOODFORD 19	AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER, POLISHED NICKEL BRONZE FINISH, 3/4" HOSE THREAD	--	--	3/4"	--	1	
WB-1	WATER SUPPLY WALL BOX	GUY GRAY M1B1HAAB	SINGLE SWEAT CONNECTION, 1/4 TURN VALVE, WALL FRAME, WITH WATER HAMMER ARRESTER.	--	--	1/2"	--	1	
WB-2	WASHER SUPPLY BOX	GUY GRAY MWB19	WASHING MACHINE WALL BOX WITH 2" DRAIN, 1/4 TURN BRASS BALL VALVES WITH WATER HAMMER ARRESTERS.	2"	1-1/4"	3/4"	3/4"	1	
WHA-1	WATER HAMMER ARRESTOR	ZURN-WILKINS 1250XL SERIES	COPPER CHAMBER WITH O-RING PISTON	--	--	--	--	11	
FCO-1	FLOOR CLEANOUT	ZURN Z1400	ADJUSTABLE	--	--	--	--	2	
WCO-1	WALL CLEANOUT	ZURN Z1441	ADJUSTABLE, STAINLESS STEEL WALL COVER	--	--	--	--	3	
GCO-1	GRADE CLEANOUT (TWO-WAY)	ZURN Z1400-HD	ADJUSTABLE	--	--	--	--	10	

GENERAL NOTES:  
1. PROVIDE SCHEDULED PLUMBING FIXTURE OR EQUAL.

REMARKS:  
1. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR FINAL FIXTURE LOCATION AND MOUNTING HEIGHTS, MOUNT PER ADA REQUIREMENTS WHERE INDICATED.  
2. PROVIDE ROUND ACCESS COVER (DEPRESSED CENTER IN CARPETED AREA TO MARK LOCATION AND ACCOMMODATE FLOOR FINISH) WITH NICKEL-BRONZE SCORED FRAMES & PLATES. SIZE AS INDICATED ON DRAWINGS. ENSURE AMPLE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.  
3. PROVIDE CAULKED OR THREADED CLEANOUT, EXTEND ACCESS COVER TO FINISHED WALL SURFACE. ENSURE AMPLE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.  
4. PROVIDE CHROME PLATED, HEAVY DUTY, COMMERCIAL GRADE, ANGLE SUPPLY (HOT AND COLD, AS REQUIRED) WITH WHEEL HANDLE STOP(S), STAINLESS STEEL FLEXIBLE RISER HOSE(S), AND CHROME PLATED WALL ESCUTCHEON(S).  
5. PROVIDE 17 GAUGE CHROME PLATED P-TRAP WITH CLEANOUT AND WALL ESCUTCHEON.  
6. PROVIDE TRUEBRO INC. HANDI LAV-GUARD OR EQUAL UNDERSINK PROTECTIVE PIPE COVERING MODEL 103, FOR WASTE, HOT, AND COLD PIPING, COLOR: WHITE. COVERS SHALL BE SECURED WITH SNAP-CLIP FLUSH REUSABLE FASTENERS. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION MEETING CURRENT ADA STANDARDS WHERE REQUIRED.  
7. PROVIDE THERMOSTATIC MIXING VALVE ZURN MODEL ZW1070XL SET TO 110° F MAXIMUM.  
8. PROVIDE 8" DEEP DOUBLE COMPARTMENT, 16 GAUGE, TYPE 304 STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, WITH MANUFACTURER'S STRAINER.  
9. PROVIDE GARBAGE DISPOSAL LUXURY LINE MODEL LL600. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.  
10. ADJUSTABLE GRADE CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISHED GRADE.  
11. WATER HAMMER ARRESTORS SHALL BE PROPERLY SIZED, PROPERLY LOCATED IN AN EFFECTIVE RANGE FROM EQUIPMENT, AND IN ACCORDANCE WITH PDI STANDARD WH201.

HEAT TRACE SCHEDULE					
MARK	MANUFACTURER MODEL	SERVICE	V/PH/HZ	W/FT	REMARKS
HT-1	CHROMALOX SRL5-1C	SEE PLANS	120/1/60	5	1-8

REMARKS:  
1. INSTALL PER MANUFACTURER'S REQUIREMENTS.  
2. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.  
3. PROVIDE CHROMALOX U SERIES POWER CONNECTION SET KIT.  
4. AFFIX TO PIPE USING FIBERGLASS TAPE.  
5. HEAT TRACE TO MAINTAIN 40°F FLUID TEMPERATURE AT 0°F.  
6. PROVIDE ONE MANUFACTURER'S LOCAL THERMOSTAT PER CIRCUIT. LOCATE THERMOSTAT IN MECHANICAL CLOSET IN ACCESSIBLE LOCATION. HEAT TRACE TO BE ENABLED AT 40°F AMBIENT.  
7. PROVIDE END SEGMENTS AND JUNCTION BOXES AS REQUIRED.  
8. WRAP VALVES AND FITTINGS PER MANUFACTURER'S REQUIREMENTS, SO THAT VALVES AND FITTINGS CAN BE DISASSEMBLED AND REMOVED WITHOUT COMPLETELY REMOVING HEAT TRACE FROM EACH LINE.

THE WHITTIER  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

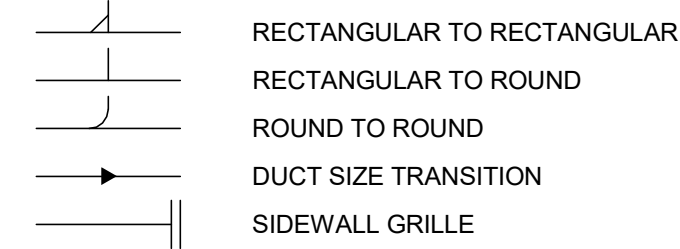
SHEET NAME  
PLUMBING SCHEDULES

SHEET NUMBER  
P-601

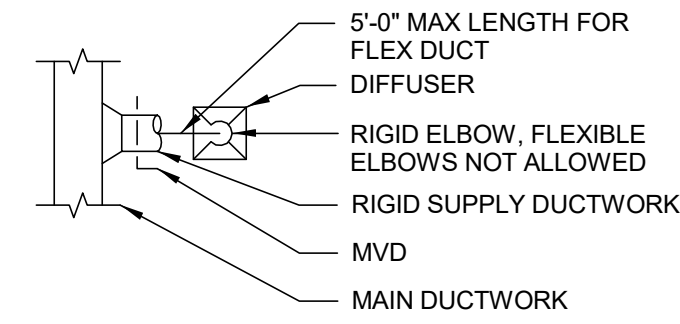
### HVAC SYMBOLS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	AUTOMATIC AIR VENT		90° RECTANGULAR ELBOW WITH SINGLE THICKNESS TURNING VANES
	BACKFLOW PREVENTER		45° RECTANGULAR BEND
	BALL VALVE		45° RECTANGULAR BEND, RADIUS/DIAMETER=1.5
	BASKET STEAM TRAP		90° ROUND ELBOW, RADIUS/DIAMETER=1.5
	BLIND FLANGE		45° ROUND BEND, RADIUS/DIAMETER=1.5
	BUTTERFLY VALVE		DUCTWORK 90° TAP (ROUND-TO-ROUND)
	CAP		DUCTWORK CONICAL TAP (ROUND-TO-ROUND)
	CHECK VALVE		DUCTWORK 45° LATERAL TAP (ROUND-TO-ROUND)
	CHECK VALVE, SILENT		90° ROUND ELBOW DOWN
	CIRCUIT SETTER		90° ROUND ELBOW UP
	COMPRESSED AIR CONNECTION		90° RECTANGULAR ELBOW DOWN WITH SINGLE THICKNESS TURNING VANES
	CONTROL VALVE, 2-WAY		90° RECTANGULAR ELBOW UP WITH SINGLE THICKNESS TURNING VANES
	CONTROL VALVE, 3-WAY		END CAP
	FLEXIBLE CONNECTOR		F=FALL IN DUCT ELEV R=RISE IN DUCT ELEV
	GATE VALVE		SIDEWALL REGISTER OR GRILLE
	GATE VALVE, ANGLE		DUCTWORK TOE-HEEL TAP (RECTANGULAR TO RECTANGULAR)
	GENERAL VALVE, SEE SPECS		DUCTWORK CONICAL TAP (RECTANGULAR TO ROUND)
	GLOBE VALVE		DUCTWORK SPIN-IN TAP (RECTANGULAR TO ROUND)
	GLOBE VALVE, ANGLE		RECTANGULAR TO ROUND TRANSITION
	PLUG VALVE		
	PRESSURE AND TEMPERATURE RELIEF		
	PRESSURE REDUCING STATION, STEAM		
	PRESSURE REDUCING VALVE		
	RELIEF VALVE, ASME		
	SMOKE DETECTOR		
	SOLENOID VALVE		
	STRAINER		
	SUCTION DIFFUSER		
	THERMOSTAT, HUMIDISTAT		
	TEMPERATURE, HUMIDITY & CO2 SENSOR		
	TRIPLE DUTY VALVE		
	UNION		
	VENTURI		
	RISER DOWN (ELBOW)		
	RISER UP (ELBOW)		
	RISE OR DROP		
	TEE DOWN		
	TEE UP		
	TOP CONNECTION		
	BOTTOM CONNECTION		
	SIDE CONNECTION		
	FLOW IN DIRECTION OF ARROW		
	PIPE SLOPE IN DIRECTION OF ARROW		
	REMOVE EXISTING TO THIS POINT		
	TIE-IN TO EXISTING AT THIS POINT		
	PUMP		
	EQUIPMENT TAG		
	EQUIPMENT NUMBER		
	FACE SIZE IN INCHES		
	AIRFLOW IN CFM		
	DEVICE TYPE, REFER TO SCHEDULE		
	ROUND DUCT SIZE IN INCHES		
	RECTANGULAR DUCT SIZE IN INCHES		

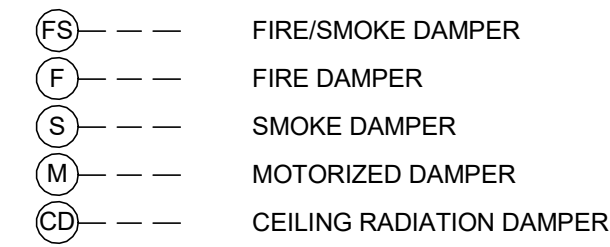
NOTE: SINGLE LINE DUCT TAP SYMBOLS ARE DENOTED AS ILLUSTRATED BELOW:



TYPICAL RUNOUT:



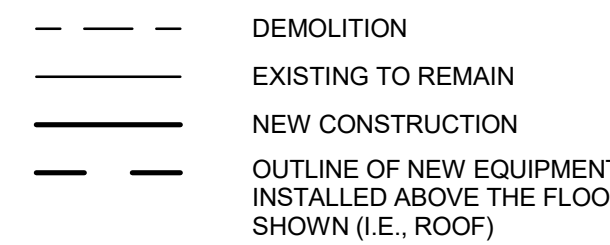
DAMPER SYMBOLS:



PIPE LABEL

SYMBOL	DESCRIPTION
— BFW —	BOILER FEED WATER
— CHWS —	CHILLED WATER SUPPLY
— CHWR —	CHILLED WATER RETURN
— BA —	COMPRESSED AIR, BREATHING AIR
— CA —	COMPRESSED AIR
— CD —	CONDENSATE, DRAIN
— CP —	CONDENSATE, PUMPED
— LPC —	CONDENSATE, LOW PRESS 0-15 PSI
— MPC —	CONDENSATE, MED PRESS 16-124 PSI
— HPC —	CONDENSATE, HIGH PRESS 125 PSI & ABOVE
— CWS —	CONDENSER WATER SUPPLY
— CWR —	CONDENSER WATER RETURN
— HWS —	HEATING WATER SUPPLY
— HWR —	HEATING WATER RETURN
— R —	REFRIGERANT
— RG —	REFRIGERANT GAS
— RL —	REFRIGERANT LIQUID
— RS —	REFRIGERANT SUCTION
— S —	STEAM, LOW PRESS 0-15 PSI
— MPS —	STEAM, MED PRESS 16-124 PSI
— HPS —	STEAM, HIGH PRESS 125 PSI & ABOVE

DEFINITION OF LINEWEIGHTS AND LINETYPES:



### HVAC ABBREVIATIONS

<b>A</b>	(A) ALTERNATE	<b>L</b>	L LOUVER
	AC AIR COMPRESSOR	LAT	LEAVING AIR TEMPERATURE
	ACC AIR COOLED CHILLER	LB	POUND, POUNDS
	ACFM ACTUAL CUBIC FEET PER MINUTE	LDB	LEAVING DRY BULB
	ADD ADDENDUM	LPC	LOW PRESSURE CONDENSATE
	ADJ ADJUSTABLE	LPS	LOW PRESSURE STEAM
	AFF ABOVE FINISHED FLOOR	LWB	LEAVING WET BULB
	AHU AIR HANDLING UNIT	LWT	LEAVING WATER TEMPERATURE
	AFUE ANNUAL FUEL UTILIZATION EFFICIENCY		
	APD AIR PRESSURE DROP	<b>M</b>	THOUSAND
	AR AIR RECEIVER	MBH	THOUSAND BTUH
	AS AIR SEPARATOR	MFG	MANUFACTURER
<b>B</b>		MPG	NATURAL GAS, MEDIUM PRESSURE
	B BOILER	MIN	MINIMUM
	BA BREATHING AIR, COMPRESSED	MISC	MISCELLANEOUS
	BAC BREATHING AIR COMPRESSOR	MOCIP	MINIMUM OVER CURRENT PROTECTION
	BCU BLOWER COIL UNIT	MPC	MEDIUM PRESSURE CONDENSATE
	BFPD BACK FLOW PREVENTION DEVICE	MPS	MEDIUM PRESSURE STEAM
	BFW BOILER FEED WATER	MVD	MANUAL VOLUME DAMPER
	BTUH BRITISH THERMAL UNIT PER HOUR		
<b>C</b>		<b>N</b>	
	CA COMPRESSED AIR	NC	NORMALLY CLOSED
	CC COOLING COIL	NIC	NOT IN CONTRACT
	CD CONDENSATE DRAIN	NO	NORMALLY OPEN or NUMBER
	CF CEILING FAN	NOM	NOMINAL
	CFM CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
	CH CHILLER (WATER COOLED)	<b>O</b>	
	CHWP CHILLED WATER PUMP	O/A	OUTSIDE AIR
	CHWS CHILLED WATER SUPPLY	ODU	OUTDOOR UNIT
	CHWR CHILLED WATER RETURN		
	CL CENTER LINE	<b>P</b>	
	CO CLEANOUT	PH	PHASE
	CONT CONTINUATION	PRV	PRESSURE REDUCING VALVE
	CP PUMPED CONDENSATE	PSI	POUNDS PER SQUARE INCH
	CT COOLING TOWER	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
	CU CONDENSING UNIT	PSIG	POUNDS PER SQUARE INCH GAGE
	CWP CONDENSER WATER PUMP		
	CWS CONDENSER WATER SUPPLY	<b>Q</b>	
	CWR CONDENSER WATER RETURN	QT	TOTAL CAPACITY
<b>D</b>		QS	SENSIBLE CAPACITY
	DCW DOMESTIC COLD WATER	QL	LATENT CAPACITY
	DN DOWN		
	DOAU DEDICATED OUTDOOR AIR UNIT	<b>R</b>	
	DP DEWPOINT	(R)	EXISTING TO REMAIN, RELOCATE
	DWG DRAWING	R	REFRIGERANT
<b>E</b>		R/A	RETURN AIR
	(E) EXISTING TO REMAIN	RAD	REFRIGERATED AIR DRYER
	E/A EXHAUST AIR	RAG	RETURN AIR GRILLE
	EAG EXHAUST AIR GRILLE	RD	ROOF DRAIN
	EAT ENTERING AIR TEMPERATURE	RE	REFER TO
	EDB ENTERING DRY BULB	RG	REFRIGERANT GAS
	EEW EMERGENCY EYE WASH	RH	RELATIVE HUMIDITY/RELIEF HOOD
	EF EXHAUST FAN	RL	REFRIGERANT LIQUID
	EH ELECTRIC HEATER	RLA	RELIEF AIR
	ENGR ENGINEER	RM	ROOM
	EPO EMERGENCY POWER OFF	RPM	REVOLUTIONS PER MINUTE
	ESP EXTERNAL STATIC PRESSURE	RPS	REVOLUTIONS PER SECOND
	EQUIP EQUIPMENT	RS	REFRIGERANT SUCTION
	ET EXPANSION TANK	RTU	ROOFTOP UNIT
	EWB ENTERING WET BULB	RV	RELIEF VALVE
	EWT ENTERING WATER TEMPERATURE	ø	ROUND, DIAMETER
<b>F</b>		<b>S</b>	
	F FAHRENHEIT	S/A	SUPPLY AIR
	FCU FAN COIL UNIT	SAG	SUPPLY AIR GRILLE
	FH FUME HOOD	SCFM	STANDARD CUBIC FEET PER MINUTE
	FLR FLOOR	SF	SUPPLY FAN
	FP FIRE PROTECTION	SP	STATIC PRESSURE
	FPM FEET PER MINUTE	SS	STAINLESS STEEL
	FT FOOT, FEET	STM	STEAM
<b>G</b>		SQIN	SQUARE INCH/INCHES
	G NATURAL GAS, LOW PRESSURE	SQFT	SQUARE FOOT/FEET
	GAL GALLON, GALLONS	<b>T</b>	
	GPH GALLONS PER HOUR	T/A	TRANSFER AIR
	GPM GALLONS PER MINUTE	TAG	TRANSFER AIR GRILLE
	GCO GRADE CLEAN OUT	TDH	TOTAL DYNAMIC HEAD
	GWH GAS WATER HEATER	TEMP	TEMPERATURE
<b>H</b>		THRU	THROUGH
	HB HOSE BIBB	TSP	TOTAL STATIC PRESSURE
	HD HEAD	TSTAT	THERMOSTAT
	HP HORSEPOWER	TYP	TYPICAL
	HPC HIGH PRESSURE CONDENSATE	<b>U</b>	
	HPC NATURAL GAS, HIGH PRESSURE	UH	UNIT HEATER
	HPS HIGH PRESSURE STEAM	UL	UNDERWRITER'S LABORATORIES
	HWP HOT WATER PUMP	UNO	UNLESS NOTED OTHERWISE
	HWR HEATING WATER RETURN	<b>V</b>	
	HWS HEATING WATER SUPPLY	V	VOLT
	HEX HEAT EXCHANGER	VAV	VARIABLE AIR VOLUME
	HT HEIGHT	VFD	VARIABLE FREQUENCY DRIVE
<b>I</b>		VRF	VARIABLE REFRIGERANT FLOW
	IDU INDOOR UNIT	<b>W</b>	
	IH INTAKE HOOD	W	WATT
	IN INCH, INCHES	WB	WET BULB
	INWC INCHES OF WATER COLUMN		
<b>K</b>			
	KW KILOWATT		
	K THOUSAND		
	KH KITCHEN HOOD		



810 SOUTH CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000  
www.cynergy.com



CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
W. TODD LESTER, PE  
ENGINEER OF RECORD

THE WHITTIER  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100

CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME  
MECHANICAL LEGENDS AND ABBREVIATIONS

SHEET NUMBER  
M-001



### REFRIGERANT PIPING GENERAL NOTES

1. SLOPE HORIZONTAL SUCTION LINES APPROXIMATELY ONE INCH EVERY 20 FEET TOWARD THE OUTDOOR UNIT TO FACILITATE PROPER OIL RETURN.
2. USE LONG RADIUS ELBOWS WHENEVER POSSIBLE.
3. LIQUID LINE SHALL BE TAPED TO ASSOCIATED INSULATED VAPOR LINE. DO NOT ALLOW METAL TO METAL CONTACT.
4. ALL REFRIGERANT SUCTION LINES TO BE INSULATED PER SECTION 23 07 19. LIQUID LINES EXPOSED TO DIRECT SUNLIGHT SHALL ALSO BE INSULATED. PROVIDE JACKET ON ALL EXTERIOR REFRIGERANT LINES. REFER TO 23 07 19.
5. BRAZE ALL COPPER TO COPPER JOINTS WITH SILFOS-5 OR EQUIVALENT BRAZING MATERIAL. DO NOT USE SOFT SOLDER.
6. DURING BRAZING OPERATIONS, FLOW AN INERT GAS SUCH AS NITROGEN THROUGH THE SYSTEM TO PREVENT INTERNAL SCALING AND CONTAMINATION.
7. PACK FIBERGLASS INSULATION AND A SEALING MATERIAL SUCH AS PERMAGUM AROUND REFRIGERANT LINES WHERE THEY PENETRATE A WALL TO REDUCE VIBRATION AND TO RETAIN SOME FLEXIBILITY. IF MULTIPLE LINE SETS ARE ROUTED THROUGH A COMMON CONDUIT, THEN ALL LINES MUST BE INSULATED.
8. SUPPORT ALL REFRIGERANT LINES AT MINIMUM INTERVALS AS RECOMMENDED BY THE MANUFACTURER.
9. INSTALL REFRIGERANT LINES IN A MANNER THAT DOES NOT OBSTRUCT SERVICE ACCESS TO THE INDOOR COIL OR FILTER.
10. ROUTE REFRIGERANT PIPING FROM OUTDOOR UNIT TO INDOOR COIL IN MOST DIRECT MANNER POSSIBLE. PROVIDE LONG LINE KIT AS REQUIRED WHERE LINESET LENGTHS (INCLUDING ELBOWS) EXCEED MANUFACTURER'S STANDARD LENGTH RECOMMENDATIONS.
11. SIZE LIQUID AND VAPOR LINES PER MANUFACTURER'S RECOMMENDATIONS.
12. PLAN INDICATES GENERAL ROUTING OF REFRIGERATION LINES WITH A SINGLE LINE SHOWN INDICATING BOTH SUCTION AND LIQUID LINE ROUTING FOR EACH SYSTEM.
13. REFRIGERATION SYSTEM INSTALLATION SHALL BE IN COMPLETE CONFORMANCE WITH SPECIFICATIONS AND WITH ALL REQUIREMENTS OF REFRIGERATION EQUIPMENT MANUFACTURER.

### GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH CURRENT APPLICABLE LOCAL, STATE, FEDERAL, FIRE, AND HEALTH CODES AND ORDINANCES AND IS RESPONSIBLE TO COMPLY WITH ALL REGULATIONS OF REGULATORY AGENCIES HAVING JURISDICTION. THE CONTRACTOR SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION. CODES, ORDINANCES AND REGULATIONS SHALL HAVE PRECEDENCE OVER SPECIFICATIONS AND DRAWINGS WHERE THERE IS A CONFLICT. OBTAIN CURRENT COPIES OF ALL ADOPTED CODES AND ORDINANCES PRIOR TO BID AND INCLUDE ALL COSTS TO COMPLY WITH CODES AND ORDINANCES IN BID.
2. PAY ALL LAWFUL FEES, PERMITS OR LICENSES REQUIRED TO ACCOMPLISH WORK. OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL.
3. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICE AND ANYTHING REASONABLY INCIDENTAL TO COMPLETE ALL WORK INDICATED ON THE DRAWINGS AND AS SPECIFIED IN ACCORDANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS.
4. THE CONTRACTOR IS RESPONSIBLE TO VISIT AND EXAMINE THE JOB SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PERTINENT TO THE WORK TO BE PERFORMED.
5. INCORPORATE ALL CODE AND ORDINANCE REQUIREMENTS INTO THE BID AND INSTALLATION OF WORK. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK REQUIRED TO CONFORM TO REGULATIONS AND REQUIREMENT AND/OR TO OBTAIN APPROVAL OF WORK.
6. THE DRAWINGS ARE DIAGRAMMATIC AND ARE ONLY INTENDED TO DEFINE THE BASIC FUNCTIONS REQUIRED. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION CONDITIONS AND COORDINATION WITH OTHER TRADES WILL ALLOW. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND ARE A PART OF THE WORK INCLUDED; HOWEVER, CHANGES THAT ALTER THE CHARACTER OF THE WORK ARE NOT PERMITTED. APPROVAL OF ARCHITECT AND ENGINEER SHALL BE OBTAINED BEFORE DEVIATIONS FROM THESE PLANS ARE MADE.
7. PLUMBING AND MECHANICAL SYSTEMS ARE NOT DIMENSIONED. DO NOT SCALE FROM DRAWING(S). THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND ENSURE THERE IS AVAILABLE SPACE FOR INSTALLATION BEFORE ORDERING EQUIPMENT AND FABRICATING PIPING AND/OR DUCTWORK.
8. THE CONTRACTOR SHALL STUDY THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL PLANS TO ENSURE ALL MECHANICAL SYSTEMS WILL FIT WITH SUFFICIENT CLEARANCES FOR INSTALLATION, SERVICING AND MAINTENANCE. NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION.
9. THE CONTRACTOR SHALL COMPLY WITH SPECIFICATIONS AND INDUSTRY STANDARDS FOR ALL INSTALLATIONS.
10. PROVIDE ALL DOMESTIC POTABLE WATER EQUIPMENT AND PIPING AS "LEAD FREE" PER THE "REDUCTION OF LEAD IN DRINKING WATER ACT". NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO SUBMITTAL.
11. REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT LOCATIONS. REFER TO PLUMBING DRAWINGS FOR ALL PLUMBING EQUIPMENT.
12. SEAL ALL PENETRATIONS WATER TIGHT. SEAL AROUND ALL WALL PENETRATIONS. PROVIDE ESCUTCHEONS ON ALL PIPING ON EXTERIOR AND EXPOSED LOCATIONS. CAULK WITH REQUIRED THICKNESS 3M BRAND FIRE BARRIER CAULK CP-25 (OR OTHER APPROVED METHOD) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE RATED ASSEMBLIES.
13. ALL CUTTING AND PATCHING OF STRUCTURE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PERFORMING WORK.
14. THE CONTRACTOR SHALL COORDINATE ALL ROUTING AND MOUNTING OF EQUIPMENT, DUCTWORK, PIPING, ETC (ALL WORK) WITH ALL OTHER TRADES.
15. PROVIDE ACCESS PANELS WHERE INDICATED ON DRAWINGS AND AS REQUIRED TO PROPERLY OPERATE, ADJUST AND MAINTAIN ALL EQUIPMENT, VALVES, DAMPERS AND OTHER ACCESSORIES. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION. COORDINATE INSTALLATION WITH ALL OTHER TRADES. ACCESS PANEL TO BE MILCOR, MATHBROOK, OR APPROVED EQUAL, HINGED WITH SCREWDRIVER LOCK.
16. ROUTE DUCTWORK AND PIPING AS HIGH AS POSSIBLE ABOVE FINISHED CEILING TO AVOID CONFLICT WITH LIGHTS.
17. INSTALL ALL PIPING PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS UNLESS DISTINCTLY SHOWN OR NOTED OTHERWISE. ROUTE PIPING LOCATED NEAR EACH OTHER PARALLEL IN ALL PLANES AND WITH SUFFICIENT CLEARANCE.
18. ALL PIPING SHALL BE INSTALLED SO THAT IT MAY EXPAND AND CONTRACT FREELY WITHOUT DAMAGES TO EQUIPMENT, OTHER WORK, OR INJURY TO PIPING SYSTEM, ALL NECESSARY SWING JOINTS, EXPANSION JOINTS, OR OFFSETS TO PROTECT PIPING, ETC. SHALL BE INSTALLED WHETHER INDICATED OR NOT.
19. PROPERLY SUPPORT ALL PIPING. PROVIDE ALL REQUIRED ANCHORS, GUIDES AND EXPANSION DEVICES.
20. PAINT ALL EXTERIOR AND EXPOSED PIPING. REFER TO ARCHITECT FOR COLOR.
21. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL MATERIAL, EQUIPMENT, APPARATUS AND WORK FROM DAMAGE. FAILURE TO DO SO TO THE SATISFACTION OF THE OWNER OR OWNER'S REPRESENTATIVE WILL BE SUFFICIENT CAUSE FOR THE REJECTION OF THE MATERIAL, EQUIPMENT, APPARATUS AND WORK IN QUESTION.
22. THE CONTRACTOR SHALL GUARANTEE ALL EQUIPMENT, MATERIALS AND WORKMANSHIP FOR A PERIOD OF 1 YEAR FOLLOWING THE DATE OF ACCEPTANCE. THE CONTRACTOR'S GUARANTEE INCLUDES EQUIPMENT CAPACITY, PERFORMANCE RATINGS AND NOISE RATINGS. ANY DEFICIENCIES SHALL BE PROMPTLY CORRECTED. ROUTINE MAINTENANCE SHALL NOT BE INCLUDED.
23. THE CONTRACTOR SHALL CLEAN ALL FIXTURES, PIPES, EQUIPMENT AND EXPOSED WORK AFTER COMPLETION OF FINAL TESTING AND BEFORE ACCEPTANCE.
24. ALL PLATED AND OTHER FINISHED PRODUCTS SHALL BE THOROUGHLY CLEANED AND POLISHED.
25. THE MANUFACTURER MODEL OR CATALOG NUMBERS INDICATED IN THE CONSTRUCTION DOCUMENTS ESTABLISH A STANDARD FOR THE GENERAL DESIGN, PERFORMANCE, AND QUALITY OF THE PRODUCT REQUIRED.
26. ALTERNATE MANUFACTURERS LISTED IN THE SCHEDULE OR SPECIFICATIONS ARE APPROVED TO BID; HOWEVER, THE SUBMITTED PRODUCT MUST MEET THE GENERAL DESIGN, PERFORMANCE, DIMENSIONS, WEIGHT, AND QUALITY OF THE SCHEDULED PRODUCT. EACH MANUFACTURER WILL HAVE DIFFERENCES IN INSTALLATION REQUIREMENTS. IF THE CONTRACTOR ELECTS TO GO WITH A NON-BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE THE COST FOR ENGINEERING TIME, AS REQUIRED, TO ADJUST THE DESIGN TO THOSE DIFFERENCES IN THEIR BID, IF THE BASIS OF DESIGN IS NOT BID. THE CONTRACTOR IS RESPONSIBLE TO IDENTIFY THE DIFFERENCES IN THE INSTALLATION REQUIREMENTS BETWEEN THE BASIS OF DESIGN AND THE SUBMITTED MANUFACTURER DURING THE SUBMITTAL PHASE.
27. WHERE "OR APPROVED EQUAL" IS INDICATED, OTHER PRODUCTS SIMILAR IN DESIGN AND OF EQUAL QUALITY AND PERFORMANCE, AND COMPLYING WITH THE PLANS AND SPECIFICATIONS MAY BE APPROVED IF FOUND ACCEPTABLE BY THE ARCHITECT/ENGINEER. THE CONTRACTOR MUST SUBMIT TO THE ARCHITECT/ENGINEER A LINE-BY-LINE COMPARISON BETWEEN SCHEDULED MANUFACTURER AND "OR APPROVED EQUAL" MANUFACTURER. REFER TO DIVISION 0 SPECIFICATIONS FOR PRE-APPROVAL TIME PERIOD.
28. ALL MATERIALS, EQUIPMENT, ETC., INSTALLED UNDER THIS CONTRACT SHALL CONFORM TO ALL RULES, CODES, ETC., AS RECOMMENDED OR ADAPTED BY THE NATIONAL ASSOCIATION GOVERNING THE MANUFACTURER, RATING AND TESTING OF SUCH MATERIALS, EQUIPMENT, ETC., ALL ELECTRICALLY OPERATED EQUIPMENT SHALL BE U.L. APPROVED FOR THE USE INTENDED.
29. ALL FIRED AND UNFIRED PRESSURE VESSELS SHALL CONFORM TO THE RULES OF THE A.S.M.E. AND NATIONAL BOARD CODES AND SHALL BE SO LABELED. FURNISH A.S.M.E. AND NATIONAL BOARD CERTIFICATES.
30. MOTORS SHALL CONFORM TO THE RULES OF THE N.E.M.A. FOR THE SERVICE INTENDED AND TO THEIR STANDARDIZED FORM SIZES.
31. SHOP DRAWINGS, CATALOG CUTSHEETS AND PERFORMANCE DATA PERTAINING TO ALL MATERIALS AND EQUIPMENT PROPOSED FOR USE SHALL BE SUBMITTED.
32. JOINTS BETWEEN DISSIMILAR METALS SHALL BE MADE WITH DIELECTRIC NIPPLES DOWNSTREAM OF A VALVE.
33. ALL MATERIALS EXPOSED IN A RETURN AIR PLENUM SHALL COMPLY WITH NFPA 90A FLAME SPREAD UNDER 25 AND SMOKE DEVELOPED AND FUEL CONTRIBUTED UNDER 50.
34. THE DISCHARGE OF SAFETY VALVES, BLOWOFF PIPES AND OTHER OUTLETS SHALL BE LOCATED AND SUPPORTED SO AS TO PREVENT INJURY TO PERSONNEL.
35. MECHANICAL EQUIPMENT SHOWN ON THE PLANS HAVE A SPECIFIC WEIGHT AND LOCATION. SHOULD THE CONTRACTOR INSTALL EQUIPMENT WITH DIFFERENT WEIGHTS OR LOCATIONS AS SHOWN, CONTRACTOR SHALL PROVIDE THIS INFORMATION TO THE STRUCTURAL ENGINEER FOR APPROVAL, PRIOR TO PURCHASING, CLEARLY INDICATING THE DIFFERENCES IN SIZE, WEIGHT AND LOCATION. THE ARCHITECT/ENGINEER SHALL NOT BEAR THE COSTS OF SUCH REVIEWS OR REDESIGNS.
36. DO NOT ROUTE PIPING OVER ELECTRICAL OR COMMUNICATIONS EQUIPMENT. THIS INCLUDES HYDRONICS, STEAM, DOMESTIC WATER, SANITARY SEWER AND VENTS, CONDENSATE, ROOF DRAINS, ETC.
37. ALL THERMOSTATS, SENSORS, ETC SHALL BE MOUNTED 60" AFF UNLESS NOTED OTHERWISE (UNO). IF ADJACENT TO LIGHT SWITCHES, HEIGHT TO MATCH, COORDINATE WITH ELECTRICAL.
38. PROVIDE RETURN AIR SMOKE DETECTOR IN EACH HVAC UNIT OVER 2,000 CFM AS REQUIRED BY THE LATEST ADOPTED INTERNATIONAL MECHANICAL CODE.
39. CONNECTION TO MARKED PROTECTION ZONES ON STEEL BRACES IS PROHIBITED. THIS INCLUDES (BUT NOT LIMITED TO); HOLES, WELDS, TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING, THERMAL CUTTING, BOLTS, SCREWS, AND SHOT-PINS.



810 SOUTH CINCINNATI  
SECOND FLOOR  
TULSA, OK 74119  
918.877.6000  
www.cyntergy.com



CYNTERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
W. TODD LESTER, PE  
ENGINEER OF RECORD

THE WHITTIER  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100

CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME

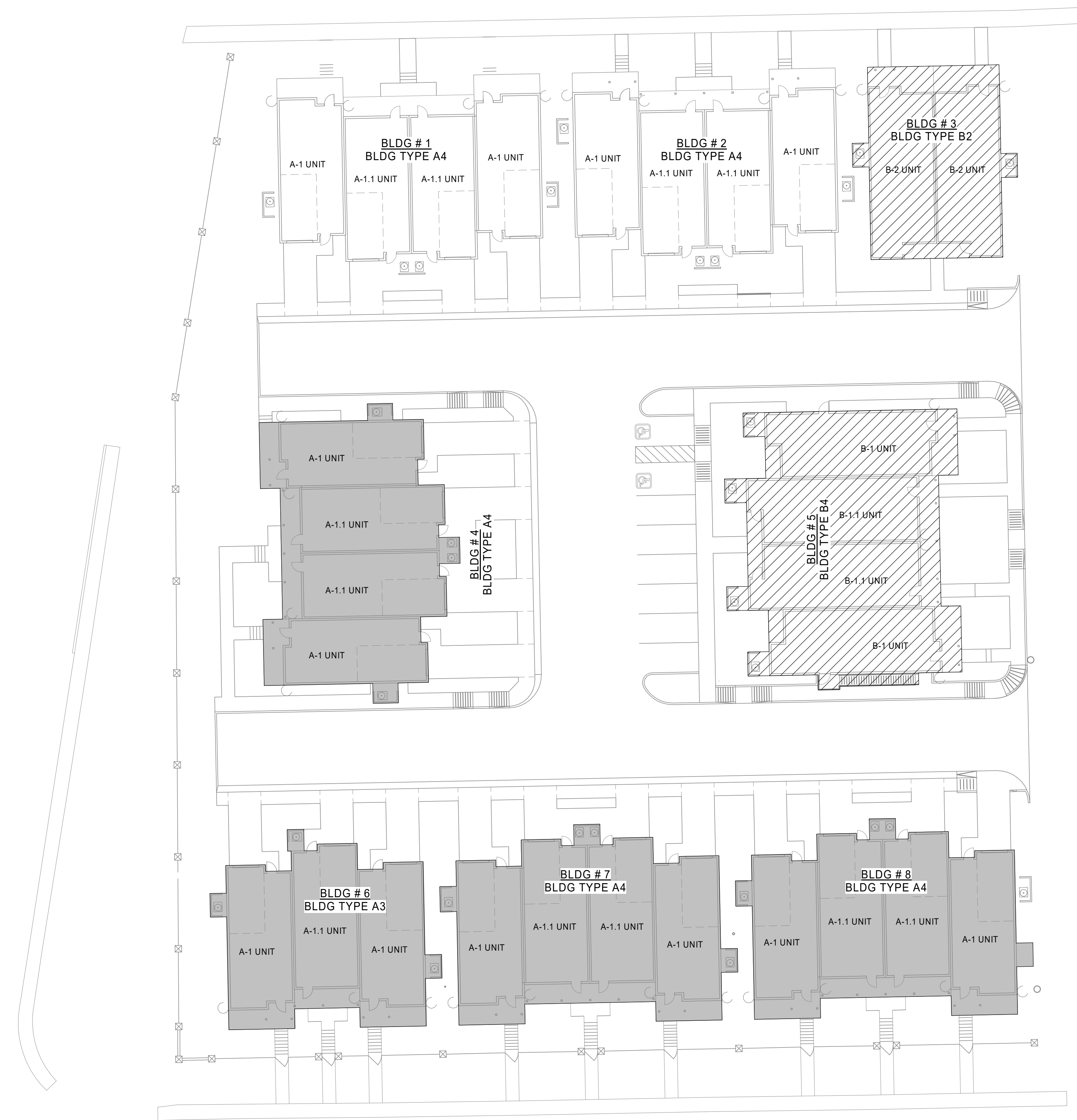
MECHANICAL NOTES

SHEET NUMBER

M-002



CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
W. TODD LESTER, PE  
ENGINEER OF RECORD



REFER TO CIVIL DRAWINGS FOR EXTENT OF SITE WORK FOR PHASE 1 AND PHASE 2.

PHASING LEGEND	
	PHASE 1
	PHASE 2
	FUTURE - BY OTHERS

**1 MECHANICAL SITE PLAN**  
1" = 20'-0"



**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS	
06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME  
**MECHANICAL SITE PLAN**

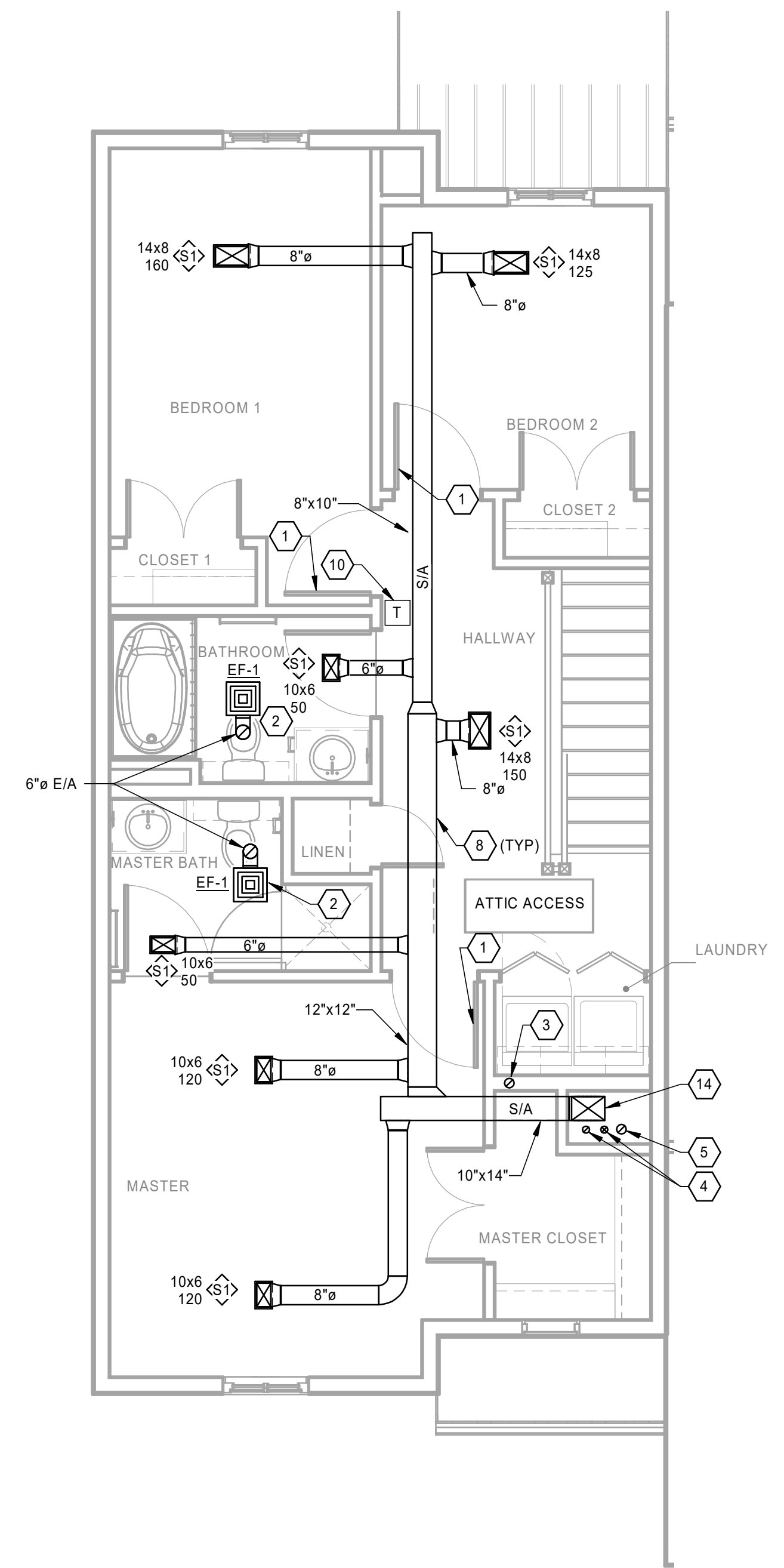
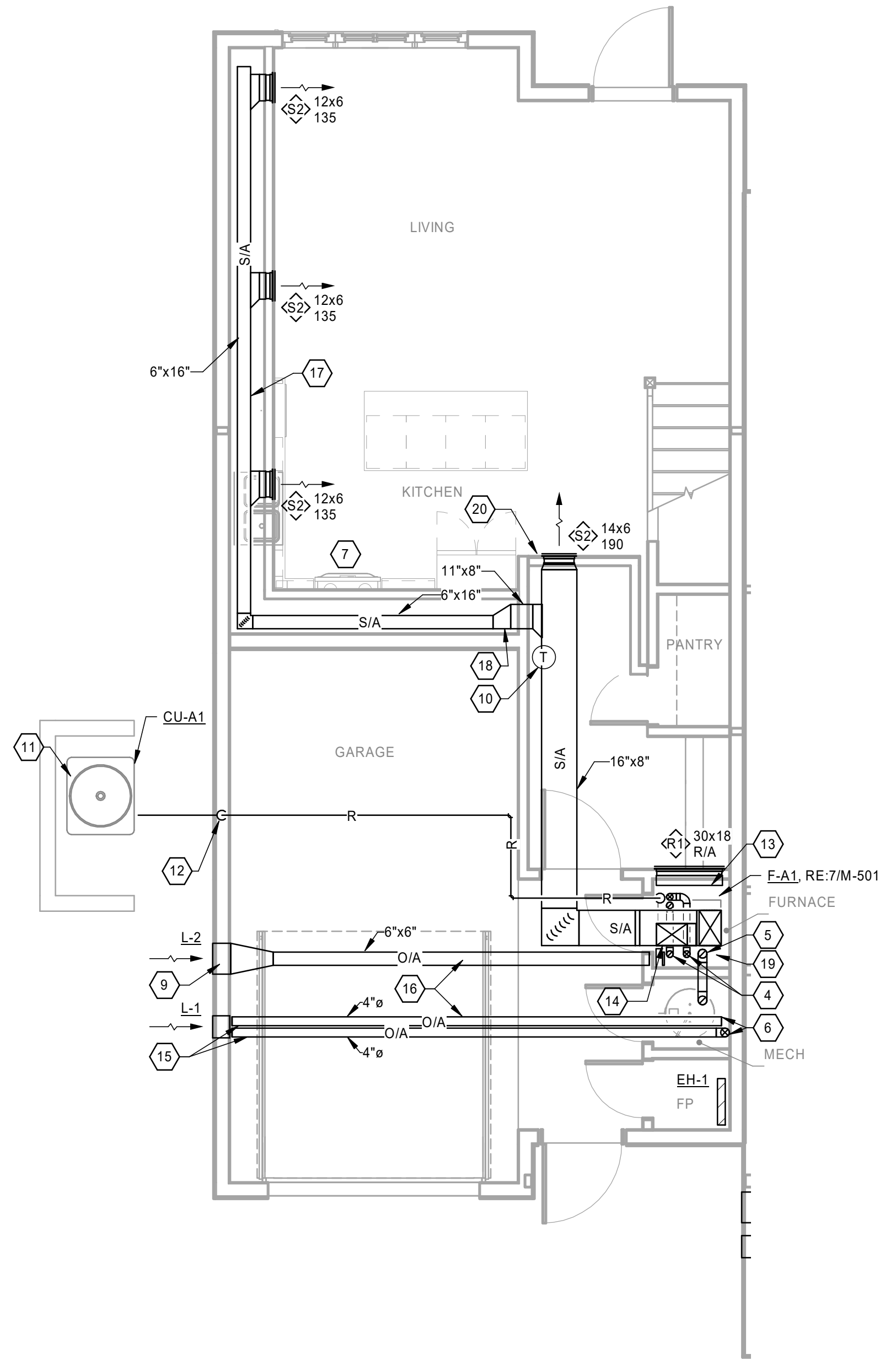
SHEET NUMBER  
**M-101**



CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
W. TODD LESTER, PE  
ENGINEER OF RECORD

- ### GENERAL NOTES
- REFER TO SHEET M-101 FOR BUILDING ORIENTATIONS ON SITE.
  - FURNACE CLOSET IS AN ENVIRONMENTAL AIR PLENUM. INSTALL PLENUM-RATED MATERIALS ONLY IN CLOSET.

- ### KEYNOTES
- UNDERCUT DOOR 1" FOR RETURN AIR FLOW.
  - EXHAUST FAN WITH DUCT UP TO ROOF CAP.
  - 4" DRYER EXHAUST UP THROUGH ROOF, DRYER WALL BOX, RE: 4/M-501.
  - CPVC VENTS IN CLOSET UP INTO CHASE. TRANSITION TO PVC VENTS IN CHASE. PVC VENTS UP TO CONCENTRIC VENT AND THEN THROUGH ROOF, TYP. SIZE PER MANUFACTURER.
  - WATER HEATER FLUE VENTED UP TO ROOF THROUGH CHASE. FLUE MATERIAL AND SIZE PER MANUFACTURER.
  - (2) 4" DUCTS FOR COMBUSTION AIR; (1) TERMINATES WITHIN 12" OF CEILING AND (1) TERMINATES WITHIN 12" OF FLOOR.
  - RECIRCULATING EXHAUST HOOD OVER RANGE.
  - DUCTWORK ROUTED IN ATTIC SPACE.
  - O/A DUCT FROM INTAKE LOUVER OVER WINDOW TO ROOM, PROVIDE WITH ACCESSIBLE DAMPER IN FURNACE CLOSET. INSTALL BOTTOM OF LOUVER AT 8" AFF OR ABOVE.
  - SPLIT SYSTEM CONTROL BY THERMOSTAT AND AVERAGING SENSOR.
  - INSTALL CONDENSING UNIT ON HOUSEKEEPING PAD, RE: 5/S-001. MAINTAIN MANUFACTURER'S CLEARANCES, COORDINATE LOCATION WITH SCREEN FENCES AND ALLEYS.
  - ROUTE REFRIGERANT FROM OUTDOOR UNIT TO INDOOR UNIT IN MOST DIRECT ROUTE POSSIBLE. SEAL EXTERIOR PENETRATION. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
  - MOUNT RAG WITH BOTTOM OF GRILLE AT 6" AFF OR ABOVE. R/A DUCT OPEN TO CLOSET.
  - DUCTWORK UP TO ATTIC.
  - INTAKE LOUVER FOR COMBUSTION AIR; INSTALL BOTTOM OF LOUVER AT 8" AFF OR ABOVE. CONNECT BOTH 4" DUCTS TO FULL SIZE PLENUM ON BACK OF LOUVER.
  - ROUTE BETWEEN STRUCTURAL TJI.
  - DUCT ROUTED IN ARCHITECTURAL LOWERED SOFFIT. ROUTE DUCT AS CLOSE TO WALL AND AS FAR FROM SOFFIT FACE AS POSSIBLE.
  - ECCENTRIC DUCT TRANSITION.
  - ROUTE CONDENSATE DRAIN LINE FROM EACH FURNACE TO NEARBY FLOOR DRAIN.
  - INSTALL SIDEWALL DIFFUSER IN SIDE OF CEILING DROP.



**1 ENLARGED UNIT A-1 FIRST FLOOR PLAN**  
1/4" = 1'-0"

REFER TO M-101 FOR PHASING PLAN

BLDG #1, 2    BLDG #4    BLDG #6, 7, 8

**2 ENLARGED UNIT A-1 SECOND FLOOR PLAN**  
1/4" = 1'-0"

REFER TO M-101 FOR PHASING PLAN

BLDG #1, 2    BLDG #4    BLDG #6, 7, 8

**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME  
ENLARGED UNIT A-1 HVAC PLANS

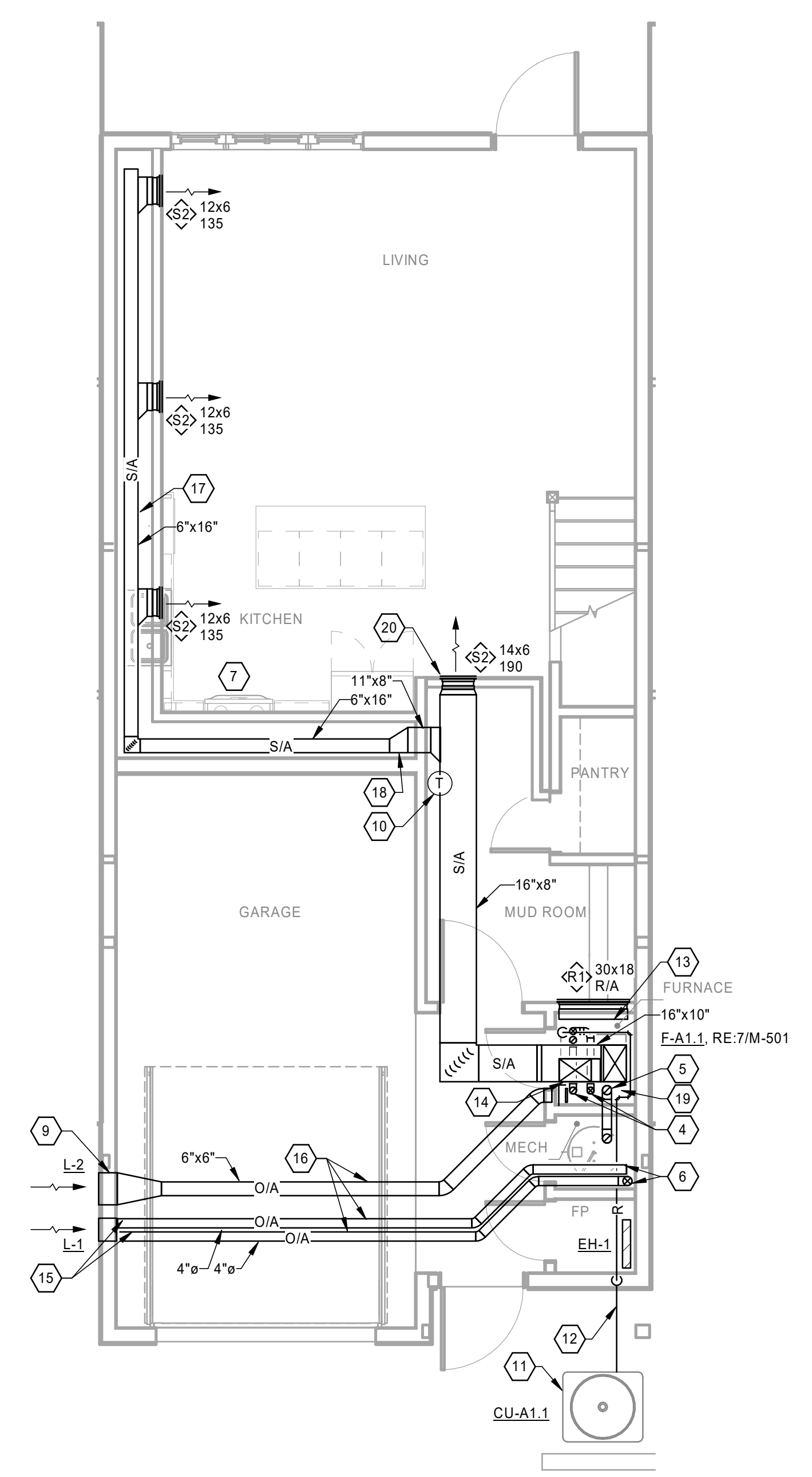
SHEET NUMBER  
**M-401**



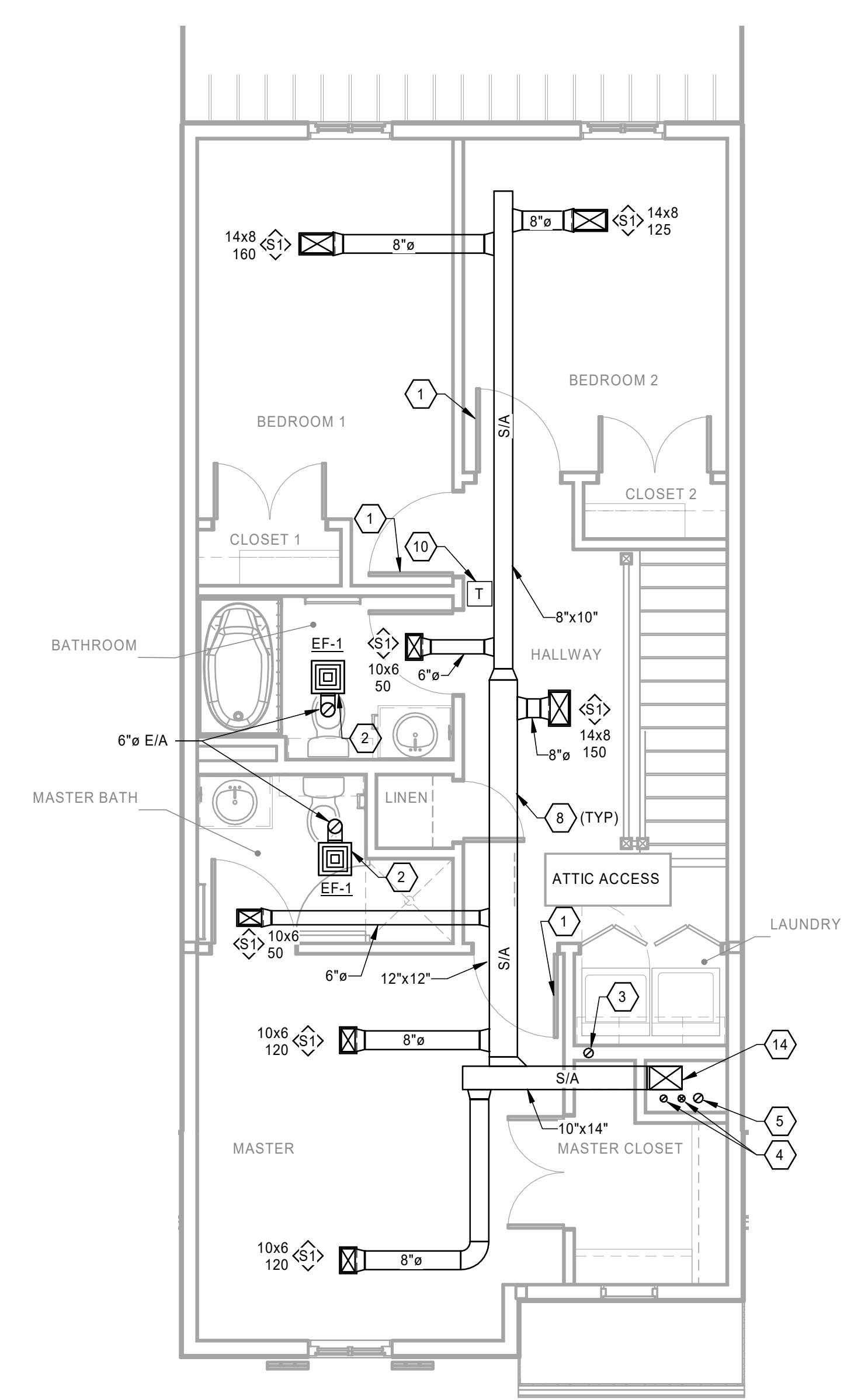
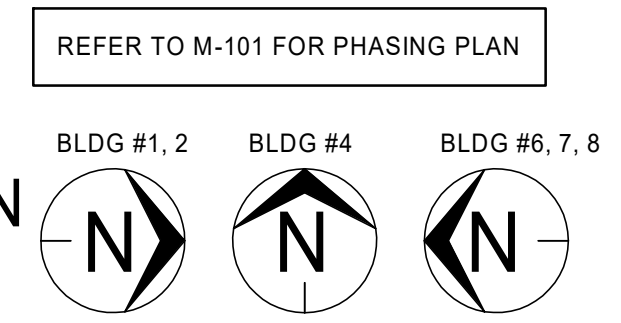
CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2022  
W. TODD LESTER, PE  
ENGINEER OF RECORD

- GENERAL NOTES**
- REFER TO SHEET M-101 FOR BUILDING ORIENTATIONS ON SITE.
  - FURNACE CLOSET IS AN ENVIRONMENTAL AIR PLENUM. INSTALL PLENUM-RATED MATERIALS ONLY IN CLOSET.

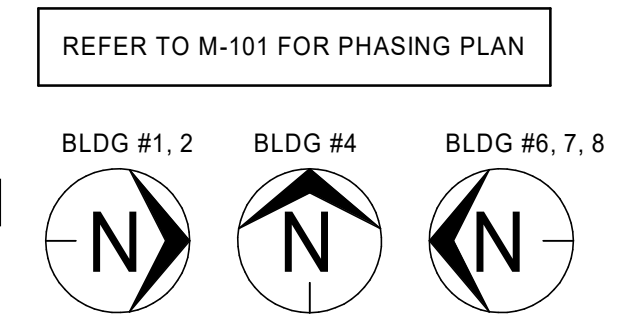
- KEYNOTES**
- UNDERCUT DOOR 1" FOR RETURN AIR FLOW.
  - EXHAUST FAN WITH DUCT UP TO ROOF CAP.
  - 4" DRYER EXHAUST UP THROUGH ROOF, DRYER WALL BOX, RE: 4/M-501.
  - CPVC VENTS IN CLOSET UP INTO CHASE. TRANSITION TO PVC VENTS IN CHASE. PVC VENTS UP TO CONCENTRIC VENT AND THEN THROUGH ROOF, TYP. SIZE PER MANUFACTURER.
  - WATER HEATER FLUE VENTED UP TO ROOF THROUGH CHASE. FLUE MATERIAL AND SIZE PER MANUFACTURER.
  - (2) 4" DUCTS FOR COMBUSTION AIR: (1) TERMINATES WITHIN 12" OF CEILING AND (1) TERMINATES WITHIN 12" OF FLOOR.
  - RECIRCULATING EXHAUST HOOD OVER RANGE.
  - DUCTWORK ROUTED IN ATTIC SPACE.
  - O/A DUCT FROM INTAKE LOUVER OVER WINDOW TO ROOM, PROVIDE WITH ACCESSIBLE DAMPER IN FURNACE CLOSET. INSTALL BOTTOM OF LOUVER AT 8" AFF OR ABOVE.
  - SPLIT SYSTEM CONTROL BY THERMOSTAT AND AVERAGING SENSOR.
  - INSTALL CONDENSING UNIT ON HOUSEKEEPING PAD, RE: 5/S-001. MAINTAIN MANUFACTURER'S CLEARANCES. COORDINATE LOCATION WITH SCREEN FENCES AND ALLEYS.
  - ROUTE REFRIGERANT FROM OUTDOOR UNIT TO INDOOR UNIT IN MOST DIRECT ROUTE POSSIBLE. SEAL EXTERIOR PENETRATION. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
  - MOUNT RAG WITH BOTTOM OF GRILLE AT 63" AFF OR ABOVE. R/A DUCT OPEN TO CLOSET.
  - DUCTWORK UP TO ATTIC.
  - INTAKE LOUVER FOR COMBUSTION AIR; INSTALL BOTTOM OF LOUVER AT 8" AFF OR ABOVE. CONNECT BOTH 4" DUCTS TO FULL SIZE PLENUM ON BACK OF LOUVER.
  - ROUTE BETWEEN STRUCTURAL TJI.
  - DUCT ROUTED IN ARCHITECTURAL LOWERED SOFFIT. ROUTE DUCT AS CLOSE TO WALL AND AS FAR FROM SOFFIT FACE AS POSSIBLE.
  - ECCENTRIC DUCT TRANSITION.
  - ROUTE CONDENSATE DRAIN LINE FROM EACH FURNACE TO NEARBY FLOOR DRAIN.
  - INSTALL SIDEWALL DIFFUSER IN SIDE OF CEILING DROP.



**1 ENLARGED UNIT A-1.1 FIRST FLOOR PLAN**  
1/4" = 1'-0"



**2 ENLARGED UNIT A-1.1 SECOND FLOOR PLAN**  
1/4" = 1'-0"



**THE WHITTIER**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

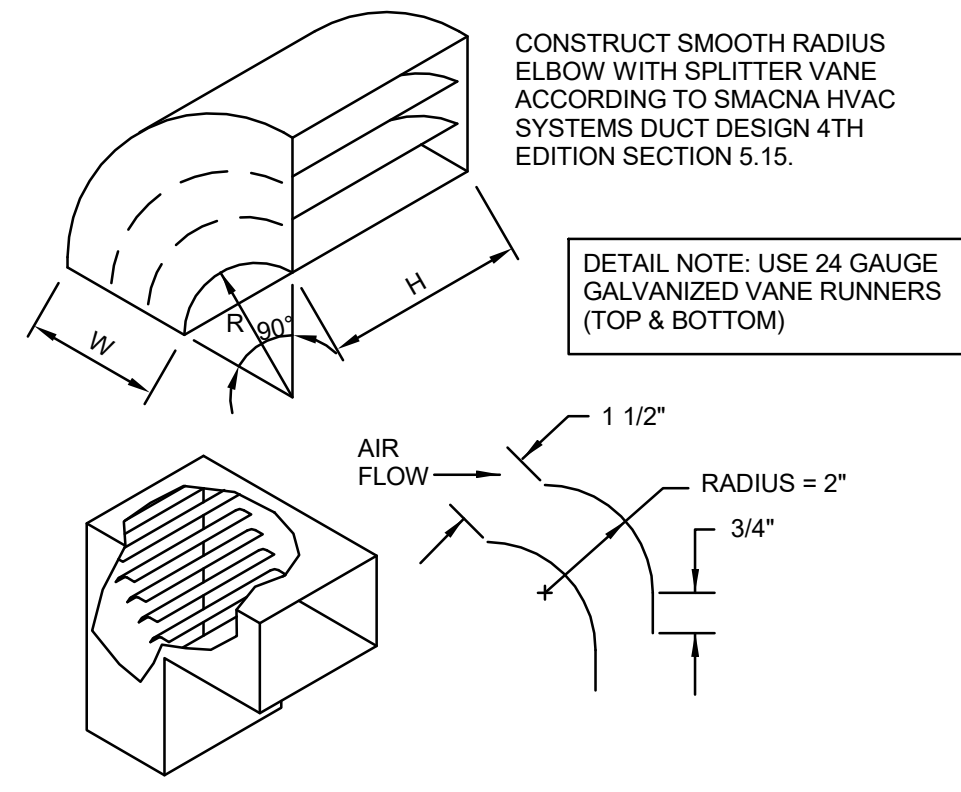
ISSUES / REVISIONS

DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

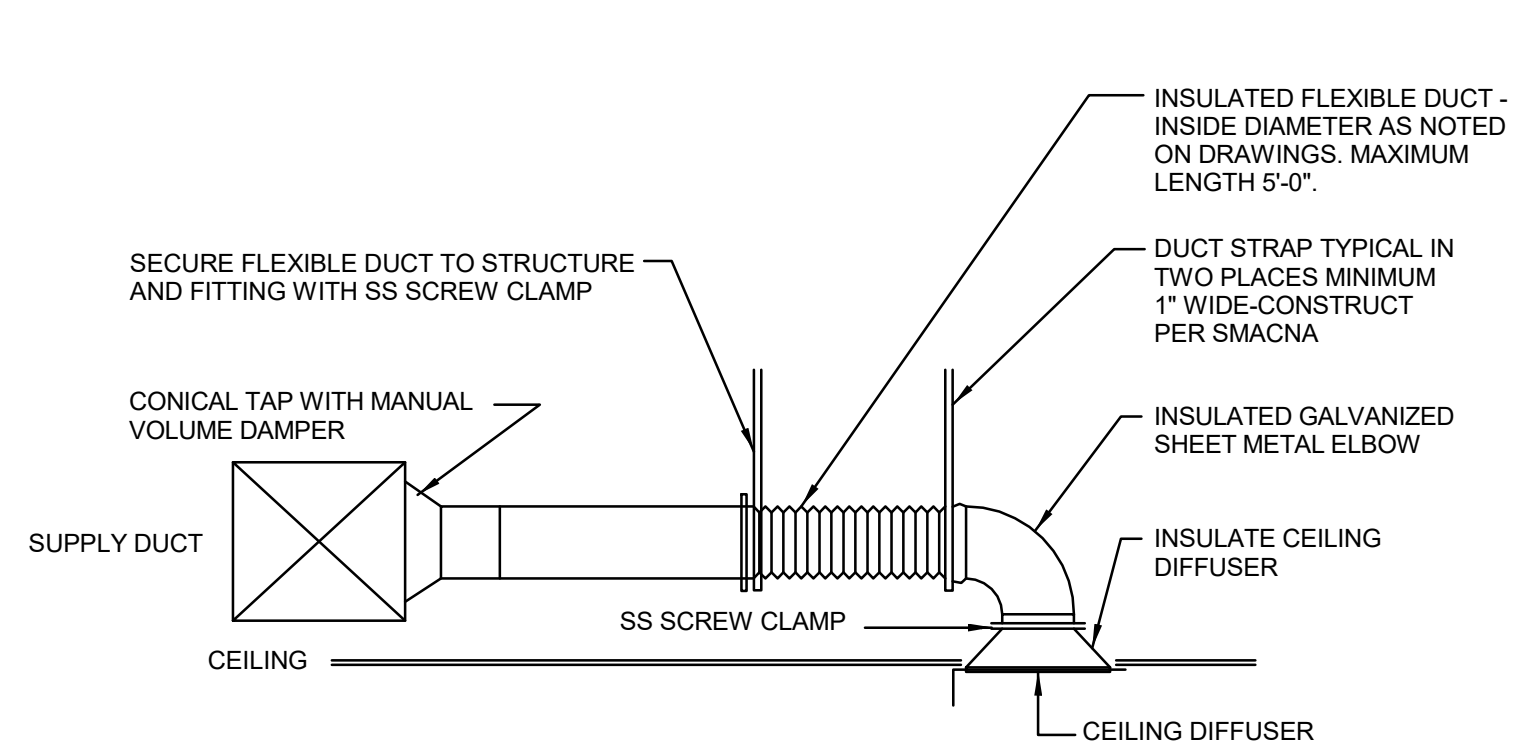
SHEET NAME  
**ENLARGED UNIT A-1.1 HVAC PLANS**

SHEET NUMBER  
**M-402**



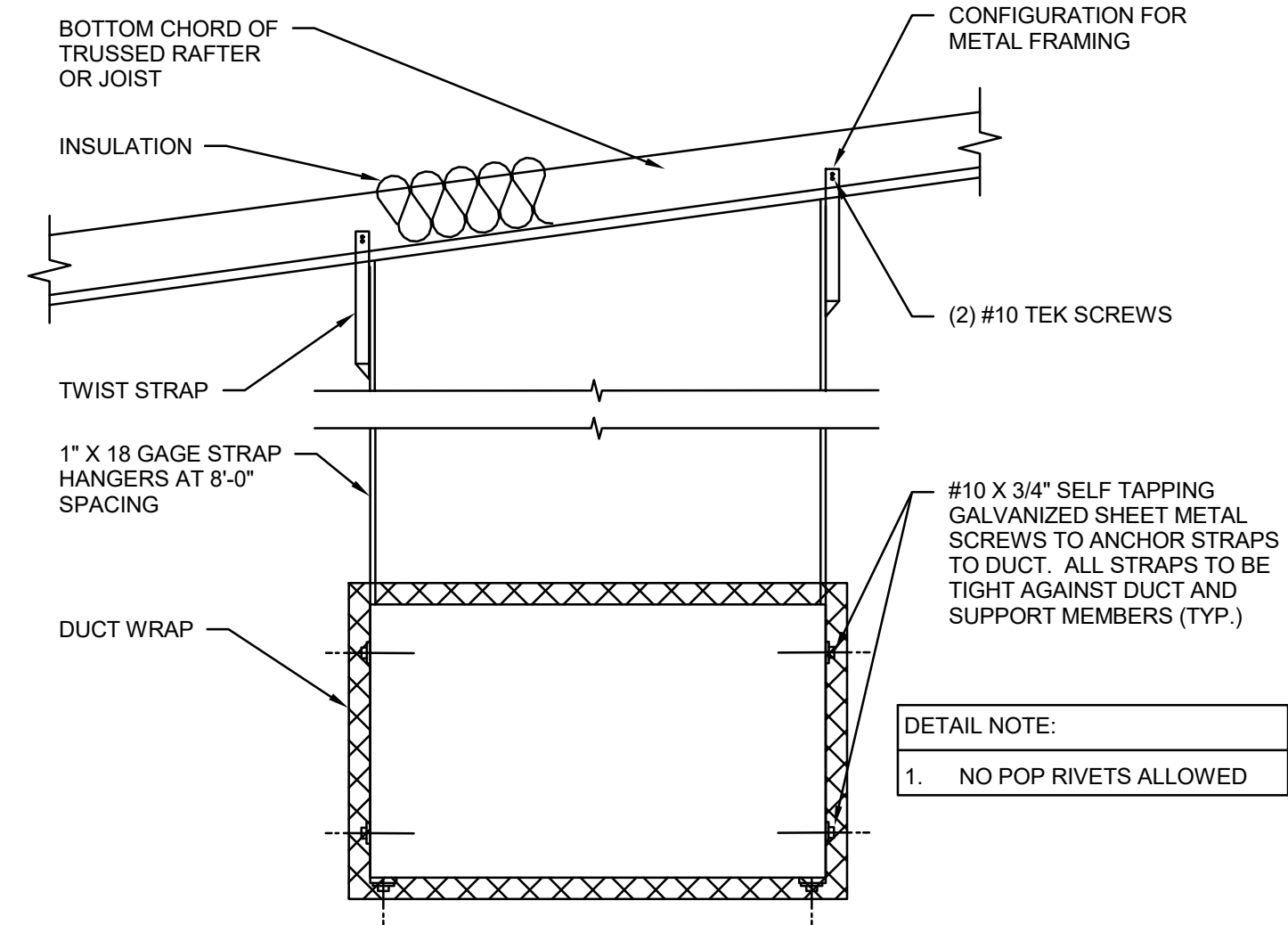
DETAIL NOTE: FOR RECTANGULAR DUCTWORK, PROVIDE LONG RADIUS ELBOWS WITHOUT TURNING VANES OR SPLITTERS. IF SPACE DOES NOT ALLOW FOR LONG RADIUS ELBOWS, SHORT RADIUS ELBOWS WITH SPLITTER(S) MAY BE SUBSTITUTED. IN EXTREMELY TIGHT SPACES, SQUARE ELBOWS WITH SINGLE WIDTH TURNING VANES MAY BE SUBSTITUTED.

**1 TURNING VANES DETAIL**  
NOT TO SCALE



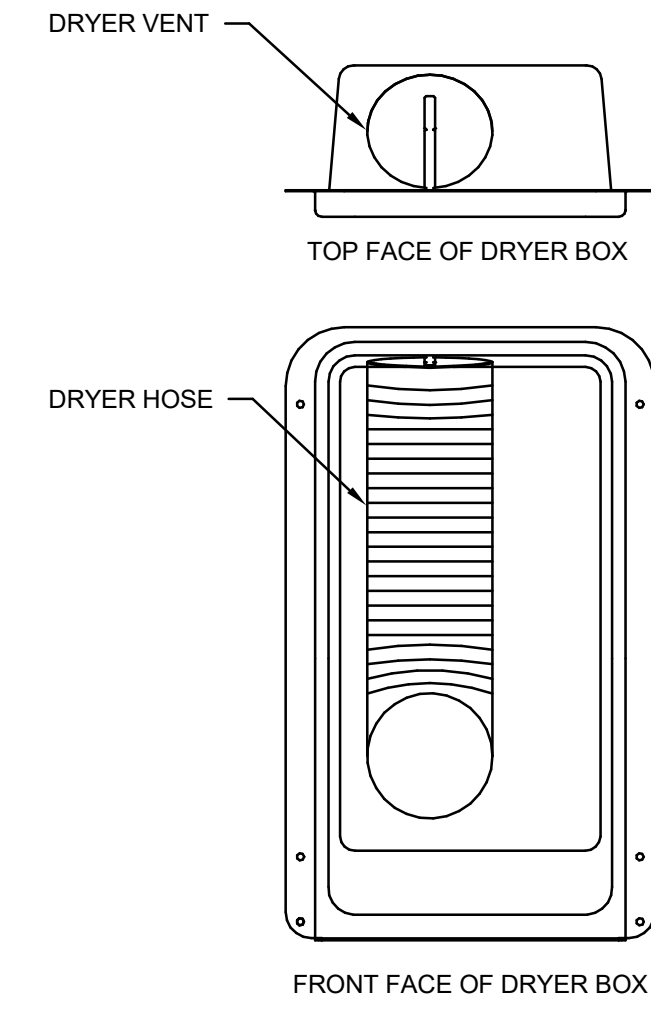
DETAIL NOTE: INSULATED, FLEXIBLE DUCT SHALL BE SUPPORTED PER SMACNA AND INDUSTRY STANDARDS, FIGURE 3-9, FLEXIBLE DUCT SUPPORTS. AVOID TIGHT RADIUS TURNS THAT RESTRICT AIR FLOW. WHERE TIGHT RADIUS TURNS ARE NECESSARY, PROVIDE RIGID SHEET METAL ELBOWS.

**2 CEILING DIFFUSER BRANCH DUCT DETAIL**  
NOT TO SCALE

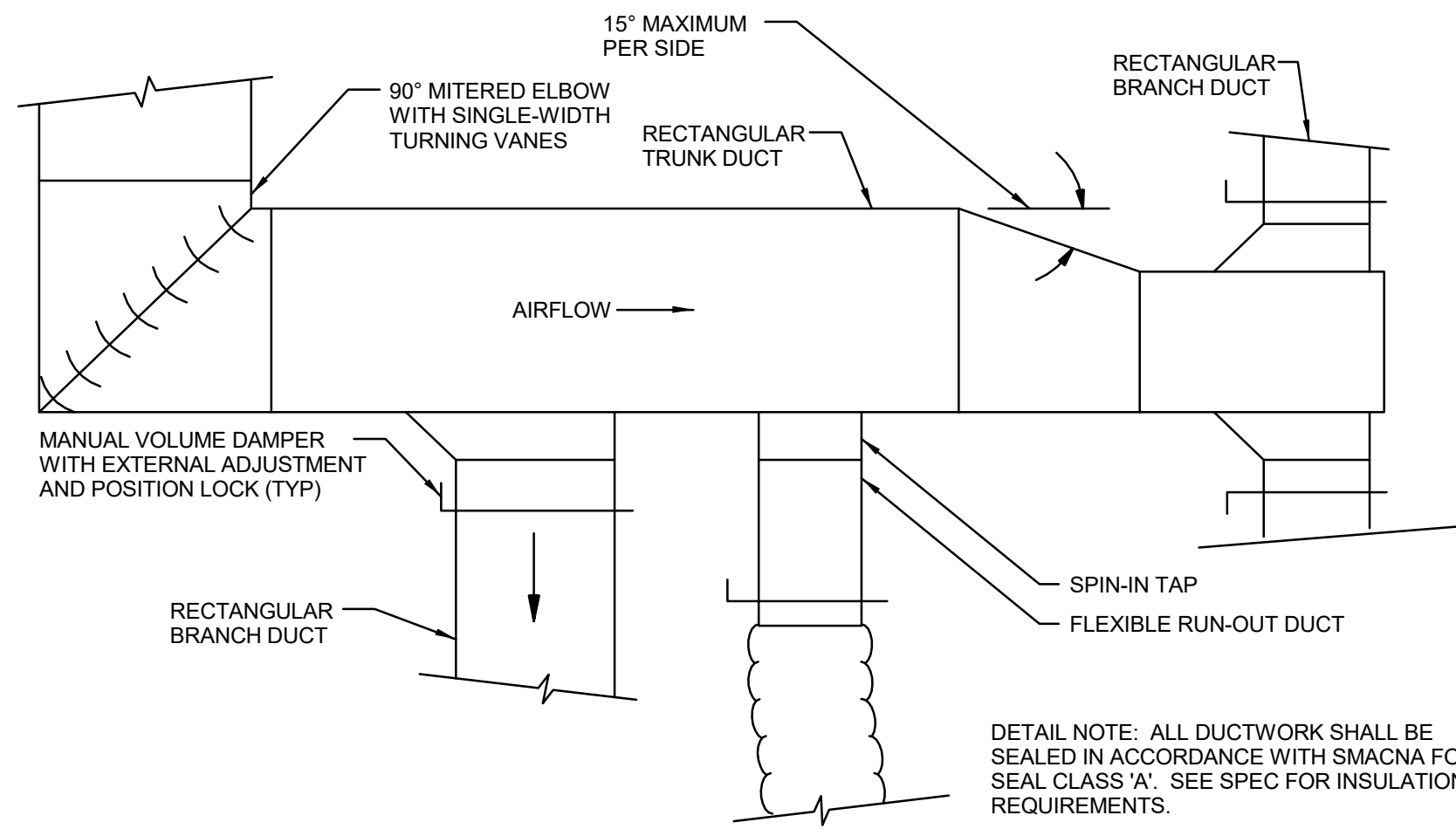


DETAIL NOTE:  
1. NO POP RIVETS ALLOWED

**3 DUCT STRAP DETAIL**  
NOT TO SCALE

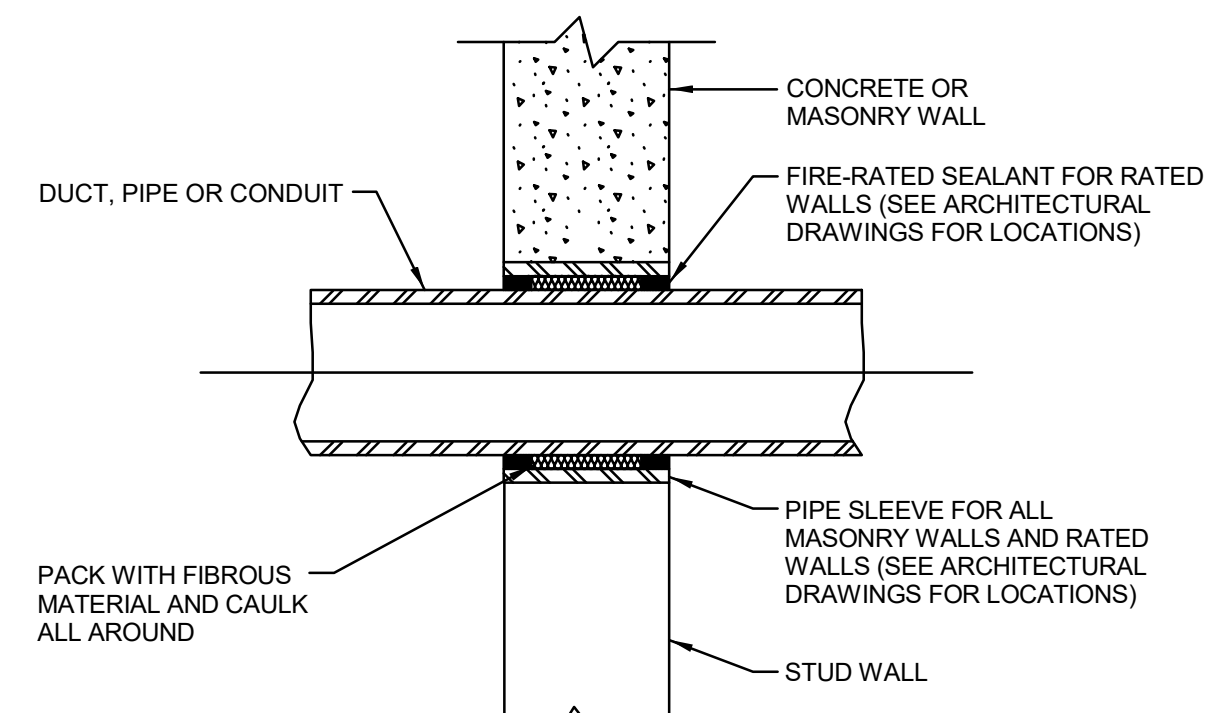


**4 DRYER BOX DETAIL**  
NOT TO SCALE



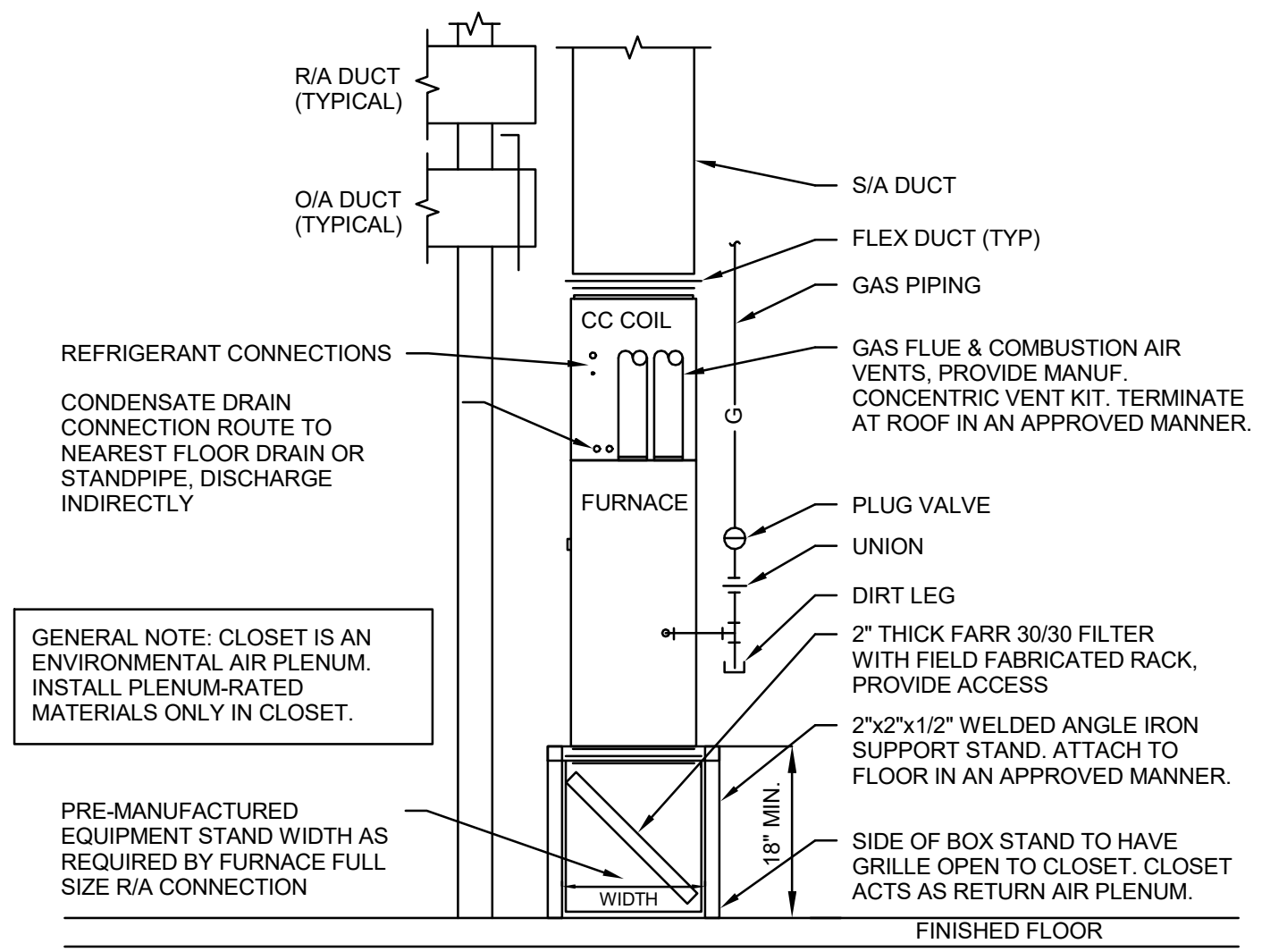
DETAIL NOTE: ALL DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH SMACNA FOR SEAL CLASS 'A'. SEE SPEC FOR INSULATION REQUIREMENTS.

**5 LOW PRESSURE DUCT CONSTRUCTION DETAIL**  
NOT TO SCALE



DETAIL NOTES:  
1. FOR INSULATED PIPING SIZE SLEEVE ACCORDINGLY.  
2. PROVIDE ESCUTCHEONS OR ANGLED STRIPS WHERE PENETRATIONS ARE EXPOSED TO VIEW.

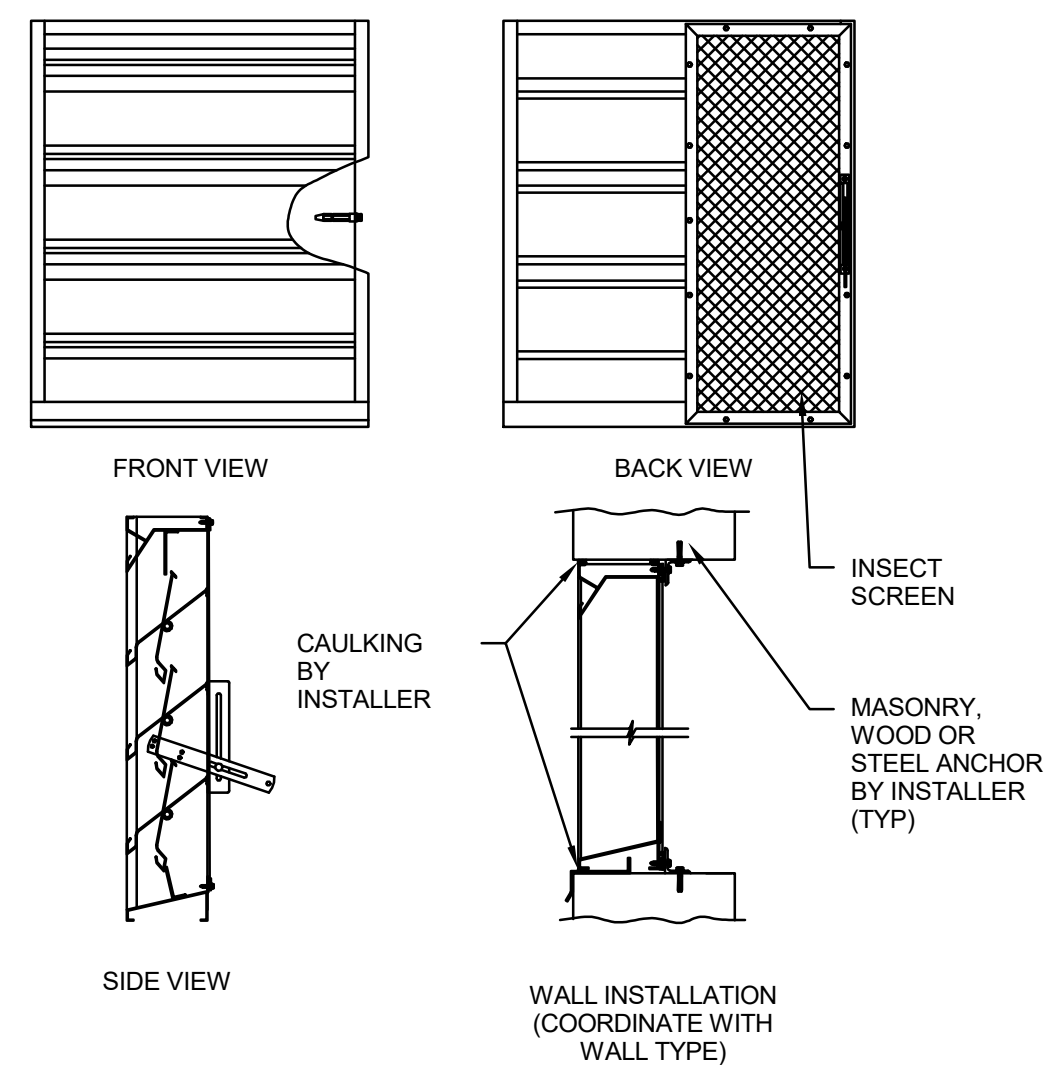
**6 TYPICAL PIPE PENETRATION DETAIL**  
NOT TO SCALE



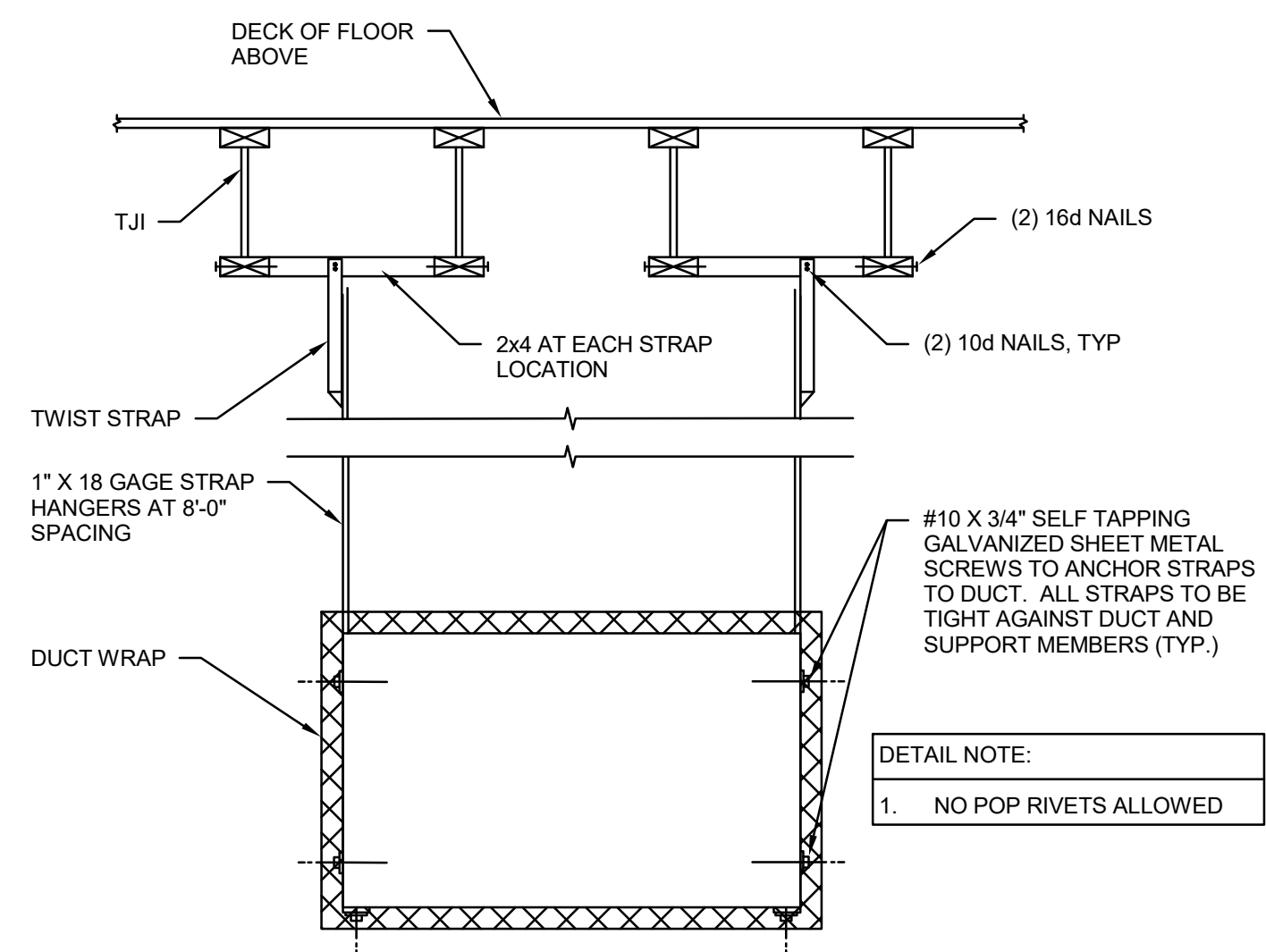
GENERAL NOTE: CLOSET IS AN ENVIRONMENTAL AIR PLENUM. INSTALL PLENUM-RATED MATERIALS ONLY IN CLOSET.

PRE-MANUFACTURED EQUIPMENT STAND WIDTH AS REQUIRED BY FURNACE FULL SIZE R/A CONNECTION

**7 UPFLOW FURNACE DETAIL**  
NOT TO SCALE



**8 LOUVER DETAIL**  
NOT TO SCALE



DETAIL NOTE:  
1. NO POP RIVETS ALLOWED

**9 DUCT STRAP DETAIL**  
NOT TO SCALE



ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
1	06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME  
**MECHANICAL DETAILS**

SHEET NUMBER  
**M-501**



LOUVER SCHEDULE						
MARK	MANUFACTURER MODEL	WIDTH (IN)	HEIGHT (IN)	MINIMUM FREE AREA (SQFT)	MAX PD (INWC)	REMARKS
L-1	GREENHECK ESD-635	12	12	0.2	0.02	1-2
L-2	GREENHECK ESD-635	14	22	0.6	0.02	1-2

REMARKS:  
1. PROVIDE BIRD SCREEN.  
2. COORDINATE INSTALLATION WITH WALL TYPE AND PROVIDE LOUVERS WITH FACTORY PRIME COAT. FINAL FINISH COLOR SHALL BE COORDINATED WITH ARCHITECT.

ELECTRIC HEATER SCHEDULE							
MARK	MANUFACTURER MODEL	AREA SERVED	HEATING CAPACITY (WATTS)	AMPS	V/PH/HZ	WEIGHT (LBS)	REMARKS
EH-1	QMARK WHT500	WATER RISER ROOM	500	4.2	120/1/60	6	1-3

REMARKS:  
1. PROVIDE SCHEDULED MANUFACTURER OR APPROVED EQUAL.  
2. UNIT HEATER TO MAINTAIN 60°F SPACE TEMPERATURE (ADJUSTABLE).  
3. PROVIDE UNIT MOUNTED THERMOSTAT.

EXHAUST FAN SCHEDULE								
MARK	MANUFACTURER MODEL	LOCATION	CFM	ESP (INWC)	AMPS	V/PH/HZ	SOUND (SONES)	REMARKS
EF-1	BROAN 679	BATHROOMS	70	0.1	2.0	120/1/60	3.5	1-7

REMARKS:  
1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.  
2. EXHAUST FAN COMES WITH LIGHT. EXHAUST FAN AND LIGHT SEPARATELY CONTROLLED BY SWITCH.  
3. PROVIDE BACKDRAFT DAMPER.  
4. PROVIDE MOTOR DISCONNECT.  
6. PROVIDE WITH 4" ROUND DUCT CONNECTOR.  
7. PROVIDE WITH MANUFACTURER'S ROOF CAP.

AIR DEVICE SCHEDULE						
MARK	MFG MODEL	SERVICE	TYPE	MOUNTING	FACE SIZE	REMARKS
S1	HART COOLEY 683	S/A	LOUVERED	SURFACE	SEE PLANS	1-5
S2	HART COOLEY 683	S/A	LOUVERED	SURFACE	SEE PLANS	2,3,4,5
R1	HART COOLEY RH45	R/A	LOUVERED	SURFACE	SEE PLANS	2,4

REMARKS:  
1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR ACTUAL MOUNTING REQUIREMENTS.  
2. PROVIDE ENAMEL WHITE FINISH.  
3. REFER TO PLANS FOR NECK SIZES.  
4. PROVIDE ALUMINUM VERSION OF GRILLES IN SHOWER, RESTROOM, AND LAUNDRY AREAS.  
5. WITH OPPOSED BLADE DAMPER AT FACE.

SPLIT-SYSTEM SCHEDULE												
MARK	TYPE	MANUFACTURER MODEL	NOMINAL SIZE (TONS)	COOLING CAPACITY (MBH)	HEATING CAPACITY IN/OUT (MBH)	EVAP FAN			ELECTRICAL		WEIGHT (LBS)	REMARKS
						S/A	O/A	HP	MCA/MOCP-CU / MOCP-F (AMPS)	V/PH/HZ		
F-A1	NATURAL GAS FURNACE	LENNOX EL196UH090XE48C	3.5	42	88/85	1230	200	3/4	15	120/1/60	158	1-12
CU-A1	CONDENSING UNIT	LENNOX EL16XC1-041	3.5	---	---	---	---	1/6	19.3/30	230/1/60	227	
F-A1.1	NATURAL GAS FURNACE	LENNOX EL196UH090XE48C	3.5	42	88/85	1230	200	3/4	15	120/1/60	158	1-12
CU-A1.1	CONDENSING UNIT	LENNOX EL16XC1-041	3.5	---	---	---	---	1/6	19.3/30	230/1/60	227	

REMARKS:  
1. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.  
2. PROVIDE AFUE-96.0% OR GREATER.  
3. PROVIDE MANUFACTURER'S CONCENTRIC VENT KIT (INSTALL PER MANUFACTURER'S RECOMMENDATIONS).  
4. PROVIDE BOTTOM FILTER RACK AND STAND BOX.  
5. PROVIDE HONEYWELL RTH7500D 7-DAY PROGRAMMABLE THERMOSTAT WITH GUARD AND AVERAGING SENSOR.  
6. PROVIDE CONDENSATE TRAP.  
7. PROVIDE 20 YEAR HEAT EXCHANGER WARRANTY.  
8. PROVIDE COMPRESSOR START ASSIST - CAPACITOR AND RELAY.  
9. PROVIDE ANTI-SHORT CYCLE PROTECTOR.  
10. PROVIDE FILTER DRIER (SUCTION LINE).  
11. PROVIDE TXV OR PISTON BODY.  
12. PROVIDE EVAPORATOR DEFROST CONTROL TO PROVIDE LOW AMBIENT COOLING.

**THE WHITTIER**  
 BOOMTOWN DEVELOPMENT COMPANY  
 68 NORTH LEWIS  
 TULSA, OK 74110

ISSUES / REVISIONS	
06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: WTL  
DRAWN BY: RAS

SHEET NAME  
**MECHANICAL SCHEDULES**

SHEET NUMBER  
**M-601**



CYNTERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2020  
CHRISTOPHER A. HARWELL, PE  
ENGINEER OF RECORD

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

**ELECTRICAL SYMBOLS**

LIGHTING SYMBOLS		DISTRIBUTION SYMBOLS	
	RECESSED FIXTURE, UPPERCASE LETTER DENOTES FIXTURE TYPE, LOWER CASE LETTER DENOTES SWITCH DESIGNATION, NUMBER DENOTES CIRCUIT. (TYPICAL)		JUNCTION BOX
	RECESSED FIXTURE, 'NL' DENOTES NIGHT LIGHT FOR UNSWITCHED FIXTURE		MOTOR RATED SWITCH WITH THERMAL OVERLOADS, EXCLUDE OVERLOADS IF PROVIDED WITH MOTOR
	STRIP LIGHT		NON-FUSED DISCONNECT
	DOWN LIGHT		FUSED DISCONNECT
	WALL WASH DOWN LIGHT		COMBINATION STARTER/DISCONNECT
	WALL SCONCE		STARTER
	WALL MOUNTED FIXTURE		METER
	SITE LIGHTING		TRANSFORMER
	EXIT FIXTURE, BRACKET DENOTES WALL MOUNT, ARROW DENOTES DIRECTION, SHADE DENOTES QUANTITY AND DIRECTION OF EXIT FACE.		MOTOR
	EXIT FIXTURE, BRACKET DENOTES WALL MOUNT, ARROW DENOTES DIRECTION, SHADE DENOTES QUANTITY AND DIRECTION OF EXIT FACE.		PANEL, SURFACE MOUNTED
	COMBINATION EMERGENCY FIXTURE/EXIT LIGHT		PANEL, FLUSH MOUNTED
	EMERGENCY FIXTURE		EARTH GROUND
<b>RECEPTACLE SYMBOLS</b>			BREAKER IN ENCLOSURE
	DUPLEX RECEPTACLE 18" AFF TO CENTER, UON. NUMBER DENOTES CIRCUIT (TYPICAL)		BREAKER
	DOUBLE DUPLEX RECEPTACLE 18" AFF TO CENTER, UON		FUSED DISCONNECT SWITCH
	SIMPLEX RECEPTACLE 18" AFF TO CENTER, UON		NON FUSED DISCONNECT SWITCH
	DUPLEX GROUND-FAULT CIRCUIT-INTERRUPTER RECEPTACLE 18" AFF TO CENTER, UON		
	DOUBLE DUPLEX GROUND-FAULT CIRCUIT-INTERRUPTER RECEPTACLE 18" AFF TO CENTER, UON		
	ISOLATED GROUND DUPLEX RECEPTACLE 18" AFF TO CENTER, UON		
	ISOLATED GROUND DOUBLE DUPLEX RECEPTACLE 18" AFF TO CENTER, UON		
	CEILING MOUNT DUPLEX RECEPTACLE	<b>LOW VOLTAGE SYMBOLS</b>	
	SPECIAL RECEPTACLE 18" AFF TO CENTER, UON		
			TELEPHONE OR DATA
			TELEVISION
			MOUNT AT 18" AFF TO CENTER, UON. 4" SQUARE BOX WITH SINGLE GANG MUD RING, BLANK FACEPLATE AND A 3/4" CONDUIT OR ENT TO ACCESSIBLE ATTIC SPACE OR DIRECTLY TO TELE/TV, COMM INTERFACE ENCLOSURE. COORDINATE INSTALLATION WITH LOW VOLTAGE CONTRACTOR.
<b>SWITCH SYMBOLS</b>			
	SINGLE POLE SWITCH 46" AFF TO CENTER, UON LOWER CASE LETTER DENOTES SWITCH DESIGNATION		
	DOUBLE POLE SWITCH 46" AFF TO CENTER, UON		
	3-WAY SWITCH 46" AFF TO CENTER, UON		
	4-WAY SWITCH 46" AFF TO CENTER, UON		
	DIMMER 46" AFF TO CENTER, UON		
	SINGLE POLE KEYED SWITCH 46" AFF TO CENTER, UON		
	TRIPLE ROCKER COMBINATION SWITCH 46" AFF TO CENTER, UON		
	WALL BOX DUAL TECHNOLOGY OCCUPANCY SENSOR 46" AFF TO CENTER, UON		

**ELECTRICAL ABBREVIATIONS**

<b>A</b>	ALTERNATING CURRENT	<b>M</b>	MANUFACTURER
AC	ABOVE FINISHED COUNTER	MAX	MAXIMUM
AFB	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MCC	MOTOR CONTROL CENTER
AHJ	AUTHORITY HAVING JURISDICTION	MDP	MAIN DISTRIBUTION PANELBOARD
AIC	AMPERE INTERRUPTING CAPACITY	MIN	MINIMUM
AMP	AMPERE	MLO	MAIN LUGS ONLY
AT	AMP TRIP	MTG	HGT MOUNTING HEIGHT
ATS	AUTOMATIC TRANSFER SWITCH	MTR	MOTOR
AWG	AMERICAN WIRE GAUGE	<b>N</b>	NEUTRAL
<b>C</b>	CONDUIT	N/A	NOT APPLICABLE
CATV	CABLE ANTENNA TELEVISION	NC	NORMALLY CLOSED
CB, C/B	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CCTV	CLOSED CIRCUIT TELEVISION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CKT	CIRCUIT	NFD	NON-FUSED DISCONNECT
CLG	CEILING	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CONT	CONTINUATION	NIC	NOT IN CONTRACT
CT	CURRENT TRANSFORMER	NL	NIGHT LIGHT
<b>D</b>	DIRECT CURRENT	NO	NORMALLY OPEN
DC	DIRECT CURRENT	<b>O</b>	OVER CURRENT PROTECTION DEVICE
DEG	DEGREE	OPCD	OWNER PROVIDED, CONTRACTOR INSTALLED
DISC	DISCONNECT	QL	OVERLOAD
<b>E</b>	EXISTING TO REMAIN	OSHA	OCCUPATIONAL SAFETY AND HEALTH ACT
(E)	EXISTING TO BE RELOCATED/REWORKED	<b>P</b>	POWER
EA	EACH	P/PWR	PARTIAL PART OF CIRCUIT
EC	ELECTRICAL CONTRACTOR	PF	POWER FACTOR
EF	EXHAUST FAN	PH	PHASE
EG	EQUIPMENT GROUND	PNL	PANEL
ELEC	ELECTRICAL	<b>R</b>	EXISTING TO BE REMOVED
EMERG	EMERGENCY	(R)	EXISTING TO BE REMOVED
EMT	ELECTRICAL METALLIC TUBING	RE	REFERENCE
EPO	EMERGENCY POWER OFF	RECEPTS	RECEPTACLE(S)
<b>F</b>	FAHRENHEIT	REQ'S	REQUIREMENTS
FA	FIRE ALARM	RMC	RIGID METAL CONDUIT
FAAP	FIRE ALARM ANNUNCIATOR PANEL	RM	ROOM
FACP	FIRE ALARM CONTROL PANEL	RMS	ROOT MEAN SQUARE
FLA	FULL LOAD AMPS	<b>S</b>	SERVICE ENTRANCE
FT	FEET	SE	SINGLE-POLE
<b>G</b>	FUSE	SPD	SURGE PROTECTION DEVICE
G/GD/G/ND	GROUND	SPEC	SPECIFICATION
GFP	GROUND FAULT PROTECTED	SQ FT	SQUARE FOOT (FEET)
GFPE	GROUND FAULT PROTECTION EQUIPMENT	ST	SHUNT TRIP DEVICE
GFR	GROUND FAULT RELAY	STD	STANDARD
GFS	GROUND FAULT SENSOR	SYM	SYMMETRICAL
<b>H</b>	HEATING, AIR-CONDITIONING, REFRIGERATION	<b>T</b>	TIME
HACR	HORSEPOWER	TYP	TYPICAL
HP	HERTZ (FREQUENCY)	<b>U</b>	UNDERGROUND
<b>I</b>	ISOLATED GROUND	UG	UNDERWRITERS LABORATORIES
IG	ISOLATED GROUND	UL	UNLESS OTHERWISE NOTED
IN	INCHES	UON	UNINTERRUPTIBLE POWER SUPPLY
<b>J</b>	JUNCTION BOX	UPS	UNINTERRUPTIBLE POWER SUPPLY
JB	JUNCTION BOX	<b>V</b>	VOLT
<b>K</b>	KILO	VA	VOLT AMPS
k	KILO	VAC	VOLTS ALTERNATING CURRENT
kcml	1000 CIRCULAR MILS	VD	VOLTAGE DROP
KVA	KILOVOLT AMPS	<b>W</b>	WIRE
KW	KILOWATT	W	WITH
kWh	KILOWATT-HOUR	WP	WEATHERPROOF WHILE IN USE
<b>L</b>	LOCKED-ROTOR AMPACITY	<b>X</b>	TRANSFORMER
LRA	LOCKED-ROTOR AMPACITY	XFMR	TRANSFORMER
LTS	LIGHTS		

**GENERAL NOTES**

- ELECTRICAL EQUIPMENT INSTALLED IN FIRE-RESISTANCE-RATED CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE IBC, INCLUDING BUT NOT LIMITED TO SECTION 714.
- ALL MATERIAL SHALL FIT THE SPACE AVAILABLE. VERIFY DIMENSIONS AND CLEARANCES AT BUILDING PRIOR TO ORDERING. ALL WORKING CLEARANCES AT ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN ACCORDANCE WITH THE NEC. COORDINATE WITH OTHER TRADES AS REQUIRED.
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. NOTIFY ENGINEER, IN WRITING, TEN DAYS PRIOR TO BID IF MECHANICAL DOCUMENTS REQUIRE ELECTRICAL CONNECTIONS THAT ARE NOT INDICATED ON ELECTRICAL DOCUMENTS.
- ELECTRICAL DISCONNECTS, STARTERS, DEVICES, OR RACEWAYS MOUNTED ON OR ADJACENT TO EQUIPMENT SHALL NOT IMPEDE ACCESS TO THAT EQUIPMENT. DISCONNECTS AND STARTERS SHALL BE INSTALLED IN A LOCATION TO MEET THE NEC WORKING SPACE REQUIREMENTS.
- LABEL ALL DISCONNECTS AND STARTERS WITH EQUIPMENT DESIGNATION, SERVING PANELBOARD DESIGNATION AND CIRCUIT NUMBER. INTERIOR EQUIPMENT MAY BE LABELED WITH SELF-ADHESIVE VINYL LABELS THAT ARE PREPRINTED, FLEXIBLE, LAMINATED WITH A CLEAR, WEATHER-AND CHEMICAL-RESISTANT COATING. EXTERIOR EQUIPMENT SHALL BE LABELED WITH SCREW RETAINED, UV STABILIZED PHENOLIC LABELS.
- COORDINATE WITH MECHANICAL FOR ELECTRICAL CONTROLS WORK NOT PART OF CONTROLS CONTRACTOR SCOPE OF WORK.
- ALL BRANCH CIRCUITS LARGER THAN 20A SHALL BE INSTALLED IN DEDICATED CONDUITS.
- SLEEVE ALL WALL, FLOOR AND CEILING PENETRATIONS FOR CABLE INSTALLATIONS. SUPPORT SLEEVES ACCORDINGLY. FIRESTOP AROUND AND IN SLEEVES AS REQUIRED. FIRESTOP MATERIAL IN SLEEVE SHALL BE REMOVABLE FOR FUTURE INSTALLATION OF CABLES.
- CONTRACTOR SHALL REVIEW ALL SPECIFICATIONS/PROJECT MANUAL, CIVIL, ARCHITECTURAL, INTERIORS, STRUCTURAL, FIRE PROTECTION, AND MECHANICAL DOCUMENTS, PRIOR TO BID, INCLUDING, BUT NOT LIMITED TO, DOOR SCHEDULES, REFLECTED CEILING PLANS, ARCHITECTURAL DETAILS, MECHANICAL PLANS, AND MECHANICAL SCHEDULES. REQUIREMENTS AND INFORMATION NECESSARY FOR THE ELECTRICAL MAY BE FOUND IN OTHER DISCIPLINE'S DOCUMENTS. NOTIFY ENGINEER, IN WRITING, TEN DAYS PRIOR TO BID IF OTHER DISCIPLINE'S DOCUMENTS REQUIRE ELECTRICAL CONNECTIONS THAT ARE NOT INDICATED ON ELECTRICAL DOCUMENTS.
- COORDINATE MOUNTING HEIGHTS/LOCATIONS OF ALL WALL MOUNTED DEVICES WITH ARCHITECTURAL DOCUMENTS.
- COORDINATE MOUNTING HEIGHTS OF WALL MOUNTED DEVICES WITH MASONRY AND ARCHITECTURAL WALL FINISHES (I.E. TILE). NOTIFY ENGINEER AND OR ARCHITECT IF MOUNTING HEIGHTS SHOULD BE ADJUSTED.
- ALL 15A AND 20A, 120V CIRCUITS WITH CIRCUIT LENGTH GREATER THAN 100' SHALL BE #10 AWG MINIMUM.
- A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH THE CIRCUIT CONDUCTORS, WHETHER INDICATED ON THE DRAWINGS OR NOT. METAL RACEWAY, CABLE ARMOR OR SHEATH SHALL NOT BE USED AS THE PREFERRED EQUIPMENT GROUNDING CONDUCTOR. RACEWAY SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS AND SHALL BE BONDED AT ALL POINTS TO THE INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF NEC ARTICLE 250.
- THE WORD "PROVIDE" AS USED IN THE CONTRACT DOCUMENTS SHALL MEAN TO FURNISH AND INSTALL, UNLESS OTHERWISE NOTED.
- ANY CUTTING AND PATCHING OF STRUCTURE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO PERFORMING WORK.
- PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
- PROVIDE ALL LIGHTING CONTROL DEVICES, AT ONE LOCATION, UNDER A COMMON COVER PLATE, UNLESS NOTED OTHERWISE.
- ALL EQUIPMENT/DEVICES (INCLUDING LIGHTING ASSEMBLIES) SHALL BE UNDERWRITER LABORATORY (OR OTHER APPROVED NATIONALLY RECOGNIZED TESTING LABORATORY) LISTED AND LABELED FOR INSTALLATION AND INTENDED USE.
- VERIFY EXACT POWER REQUIREMENTS AND NEMA CONFIGURATION OF OUTLET REQUIRED FOR OWNER FURNISHED EQUIPMENT BEFORE ROUGH-IN.
- OUTLETS SHALL NOT BE MOUNTED BACK TO BACK.
- PROVIDE DEDICATED NEUTRALS FOR GFCI CIRCUITS. GFCI OUTLETS ARE SHOWN FOR ALL OUTLETS REQUIRED TO BE PROTECTED, HOWEVER, ONLY ONE GFCI DEVICE ON EACH CIRCUIT MAY BE INSTALLED TO PROTECT THE GFCI OUTLETS SHOWN. LOCATE GFCI DEVICE IN CIRCUIT TO PROTECT ALL GFCI OUTLETS SHOWN. GFCI SHALL HAVE A 4-6 mA TRIP.
- PROVIDE LISTED HANDLE-TIE OR MULTI-POLE CIRCUIT BREAKER FOR CIRCUITS SHARING A COMMON NEUTRAL. HANDLE-TIED OR MULTI-POLE CIRCUIT BREAKERS SHALL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS, THAT SHARE THE COMMON NEUTRAL.
- CIRCUIT BREAKERS SERVING FIRE ALARM SYSTEM COMPONENTS SHALL HAVE RED IDENTIFICATION ON THE CIRCUIT BREAKER HANDLE.
- REFER TO THE BRANCH CIRCUIT SCHEDULE FOR BRANCH CIRCUIT SIZES, UNLESS OTHERWISE NOTED.
- PROVIDE PVC COATED GALVANIZED RIGID CONDUIT ELBOWS ON ALL UNDERGROUND CONDUITS AND USE PVC COATED GALVANIZED RIGID CONDUIT WHERE STUBBED UP THROUGH A SLAB. ALL METALLIC SURFACES, INCLUDING FITTINGS, SHALL BE PVC COATED. COATED SURFACES DAMAGED DURING INSTALLATION AND OR CONSTRUCTION SHALL HAVE THE DAMAGED SURFACE TOUCHED UP WITH MANUFACTURER APPROVED COMPOUND. ALL EXPOSED EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID STEEL UNLESS NOTED OTHERWISE.
- PROVIDE CEILING FAN RATED BOXES AND SUPPORT FOR CEILING FANS IN ACCORDANCE WITH CODE AND THE MANUFACTURER'S RECOMMENDATIONS.

**LIGHT FIXTURE SCHEDULE**

MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER OR ENGINEER APPROVED EQUAL	MOUNTING	LAMP TYPE	LOAD	COMMENTS
A	6" RECESSED DOWNLIGHT	QUORUM	905-6-8	RECESSED	LED, 3000K	12 VA	WET LOCATION LISTED
B	LED WRAPAROUND	METALUX	4WPLD3130R9	SURFACE	LED, 3000K	36 VA	
C	CEILING FAN WITH LIGHT	QUORUM	70525-65	SURFACE	(2) SATCO 9.5A19/LED30K/ND120V	64 VA	PROVIDE WITH LIGHT KIT
D	VANITY LIGHT	QUORUM	5207-3-65	SURFACE	(3) SATCO 9.5A19/LED30K/ND120V	20 VA	CENTER, 3" TO BOTTOM OF FIXTURE, ABOVE MIRROR
E	DECORATIVE PENDANT	HOME DECORATORS COLLECTION	TNP05866	PENDANT	(1) SATCO 9.5A19/LED30K/ND120V	10 VA	
F	EXTERIOR WALL SCONCE	QUORUM	706-69	SURFACE	(1) SATCO 6.5A19/CL/LED/E28/30K/120V	7 VA	MOUNT AT +7-0" TO TOP OF FIXTURE
G	7.5" RECESSED DOWNLIGHT	QUORUM	905-7-8	RECESSED	LED, 3000K	15 VA	
H	2' UNDER CABINET LIGHTING	QUORUM	93324-6	SURFACE	LED, 3000K	9 VA	
J	SIGN LIGHTING	ACOLYTE	CHAR2 F 0 SW5268 3.0 30	RECESSED	LED, 3000K	15 VA	LENGTHS AS REQUIRED, PROVIDE WITH OUTDOOR RATED DRIVER, RE: ARCHITECTURAL DETAILS
K	2' LED STRIP	COMMERCIAL ELECTRIC	54263211	SURFACE	LED, 3000K	10 VA	CENTER, 3" TO BOTTOM OF FIXTURE, ABOVE DOOR

GENERAL NOTE: MEDIUM BASE LAMP FIXTURES SHALL HAVE A MINIMUM LAMP SOCKET RATING OF 60 WATTS. FIXTURES WITH A SOCKET RATING MORE THAN 60 WATTS SHALL HAVE A FACTORY APPLIED LABEL IN THE FIXTURE STATING THAT THE MAXIMUM SOCKET RATING IS 60 WATTS. MANUFACTURER SHALL CONFIRM THAT APPLICATION OF THIS LABEL WILL NOT VOID ANY NRTL LISTING/LABELING, MANUFACTURER'S WARRANTY, ETC. FIXTURE SHALL HAVE CERAMIC OR PORCELAIN SOCKET WITH NICKEL-PLATED BRASS OR NICKEL-PLATED COPPER ALLOY SCREW SHELL AND CONTACT.

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100

CHECKED BY: CAH  
DRAWN BY: JSL

SHEET NAME  
NOTES, LEGENDS, AND ABBREVIATIONS

SHEET NUMBER  
**E-001**



CYNTERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2020  
CHRISTOPHER A. HARWELL, PE  
ENGINEER OF RECORD

**KEYNOTES**

1. PROVIDE LOAD CENTER AT BACKSIDE OF MONUMENT SIGN WALL WITH NON-METALLIC OR STAINLESS STEEL (1/8" MAXIMUM DEPTH) STRUT AND SECURELY MOUNT PANEL TO STRUT WITH STAINLESS STEEL HARDWARE.
2. FIXTURE TYPE 'J' LOCATED AT RECESS IN MONUMENT SIGN CAPSTONE. REFER TO ARCHITECTURAL DETAILS. FIXTURE TO BE PHOTOCELL ON/OFF CONTROLLED. LOCATE PHOTOCELL ON BACK OF MONUMENT SIGN AND FACE NORTH.
3. WEATHERPROOF GFCI RECEPTACLE WITH METALLIC LOCKABLE 'WHILE IN USE' COVER.
4. FOR BUILDINGS THAT ARE TO BE CONSTRUCTED IN LATER PHASES PROVIDE CONDUIT STUBBED OUT OF SECONDARY WELL OF TRANSFORMER 5'-0" BEYOND PAD IN DIRECTION OF FUTURE BUILDING. RE: ONE-LINE DIAGRAM FOR MORE INFORMATION.

STREET LIGHTING:  
DESIGN AND FIXTURES PROVIDED  
BY PUBLIC SERVICE COMPANY OF  
OKLAHOMA.

**PHASING LEGEND**

	PHASE 1
	PHASE 2
	FUTURE - BY OTHERS



**1 ELECTRICAL SITE PLAN**  
1/16" = 1'-0"

REFER TO CIVIL DRAWINGS FOR EXTENTS OF SITE WORK INCLUDED IN PHASE 1.

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: CAH  
DRAWN BY: JSL

SHEET NAME  
**ELECTRICAL SITE PLAN**

SHEET NUMBER  
**ES101**

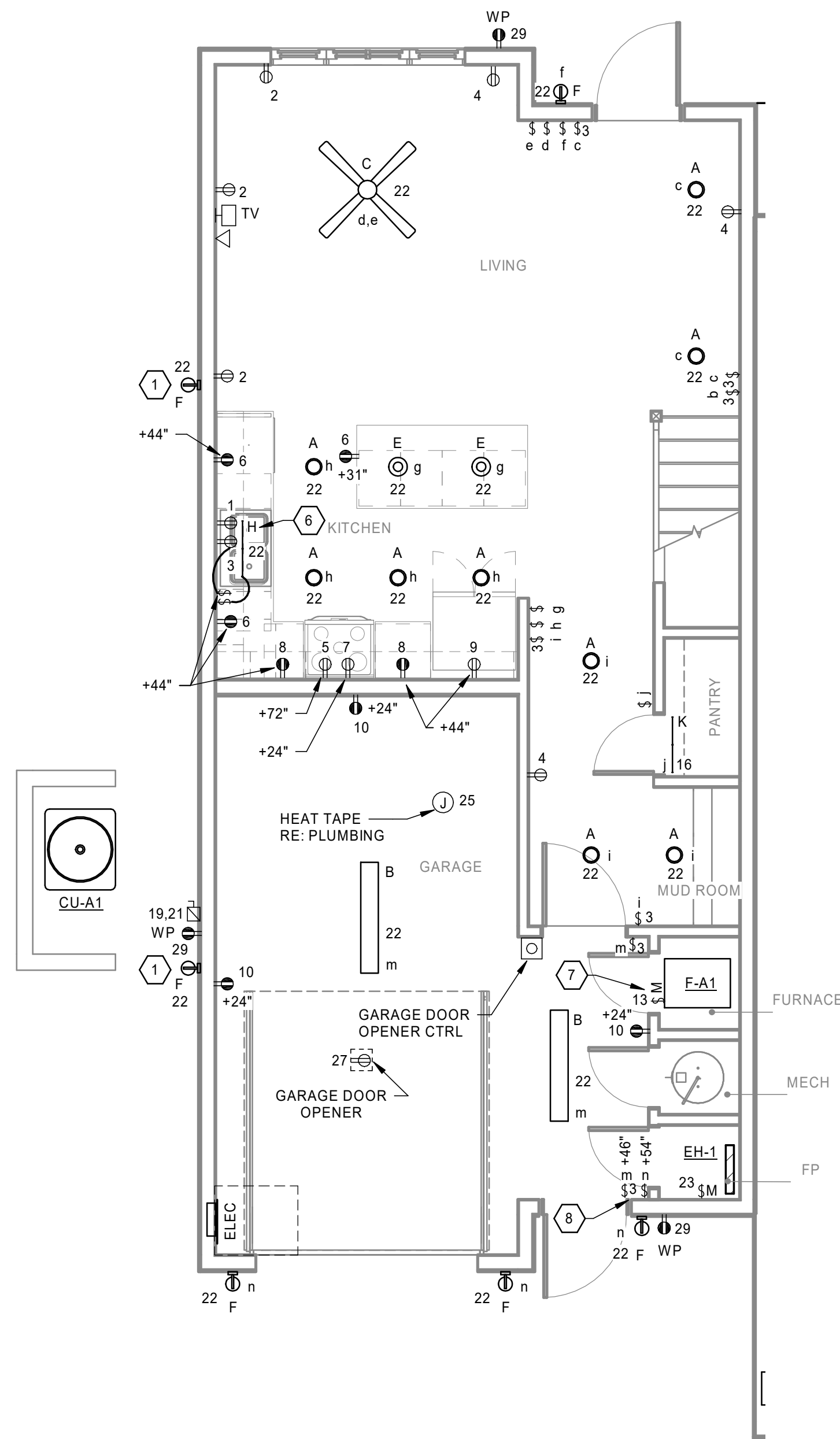




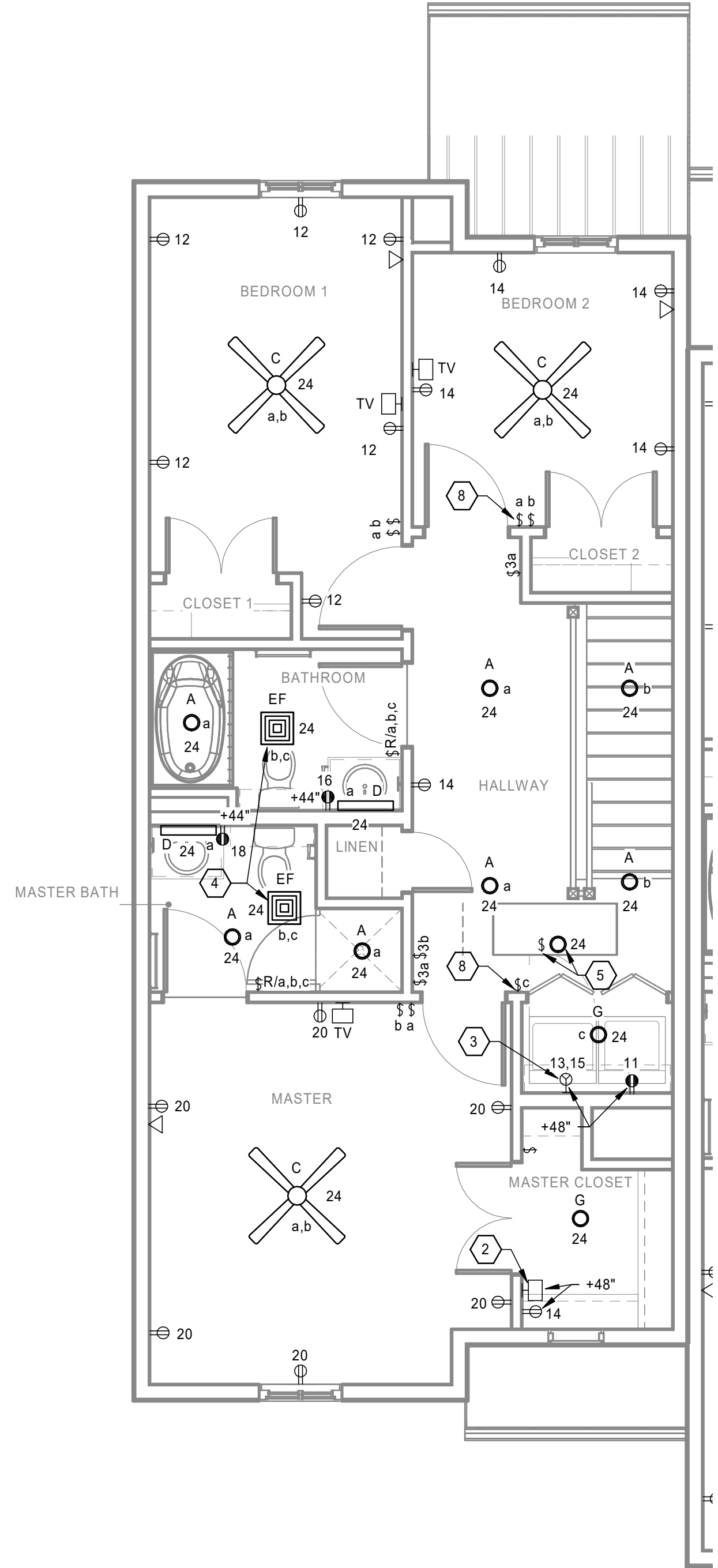
CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2020  
CHRISTOPHER A. HARWELL, PE  
ENGINEER OF RECORD

**KEYNOTES**

1. FIXTURES LOCATED ON EXTERIOR SIDE WALL ARE TO BE PHOTOCELL ON/OFF CONTROLLED. LOCATE PHOTOCELL ON ROOF SOFFIT AND FACE NORTH. THESE FIXTURES ARE TO BE ON UNSWITCHED HOT LEG OF LIGHTING CIRCUIT.
2. ROUGH-IN FOR TELE/TV COMMUNICATIONS INTERFACE ENCLOSURE. PROVIDE ADJACENT TO DUPLEX OUTLET. PROVIDE THREE 3/4" CONDUITS OR ENT STUBBED UP INTO ACCESSIBLE ATTIC SPACE AND TWO 1" CONDUITS DOWN TO BELOW GRADE AND STUBBED UP ADJACENT TO ELECTRIC SERVICE. STUB CONDUITS 1/2" FROM EXTERIOR WALL & ABOVE GRADE. CONDUIT STUB UPS SHALL BE GALVANIZED RIGID STEEL, CAPPED AND LABELED WITH THE HOUSING UNIT NUMBER. COORDINATE WITH LOW VOLTAGE CONTRACTOR.
3. PROVIDE 30A 120/240V, 1PH, 4W RECEPTACLE FOR DRYER.
4. EXHAUST FAN/LIGHT PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE SEPARATE SWITCH LEGS FOR FAN AND LIGHT.
5. PROVIDE KEYLESS PORCELAIN SOCKET LAMPHOLDER WITH LED LAMP, SATCO 9.5A19LED30K/ND120V AND LIGHT SWITCH IN ATTIC. LOCATE SWITCH IN ATTIC ADJACENT TO ACCESS DOOR.
6. FOR UNITS THAT HAVE A WINDOW OVER THE SINK (NOT FACING INTO AN ALLEY) THIS FIXTURE SHALL BE TYPE 'A'. RE: ARCHITECTURAL PLANS.
7. LOCATE SWITCH TO HAVE 36" CLEAR IN FRONT AND 30" CLEAR IN WIDTH. CONTRACTOR SHALL VERIFY NEC REQUIRED WORKING CLEARANCES ARE PROVIDED AND ACCESS TO FURNACE IS NOT IMPEDED.
8. COORDINATE INSTALLATION OF RECESSED BOX AND BRANCH CIRCUIT WITH FRAMING CONTRACTOR.



**1 ENLARGED UNIT A-1 FIRST FL ELEC PLAN**  
1/4" = 1'-0"



**2 ENLARGED UNIT A-1 SECOND FL ELEC PLAN**  
1/4" = 1'-0"

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100

CHECKED BY: CAH  
DRAWN BY: JSL

SHEET NAME  
ENLARGED UNIT A-1  
ELECTRICAL PLANS

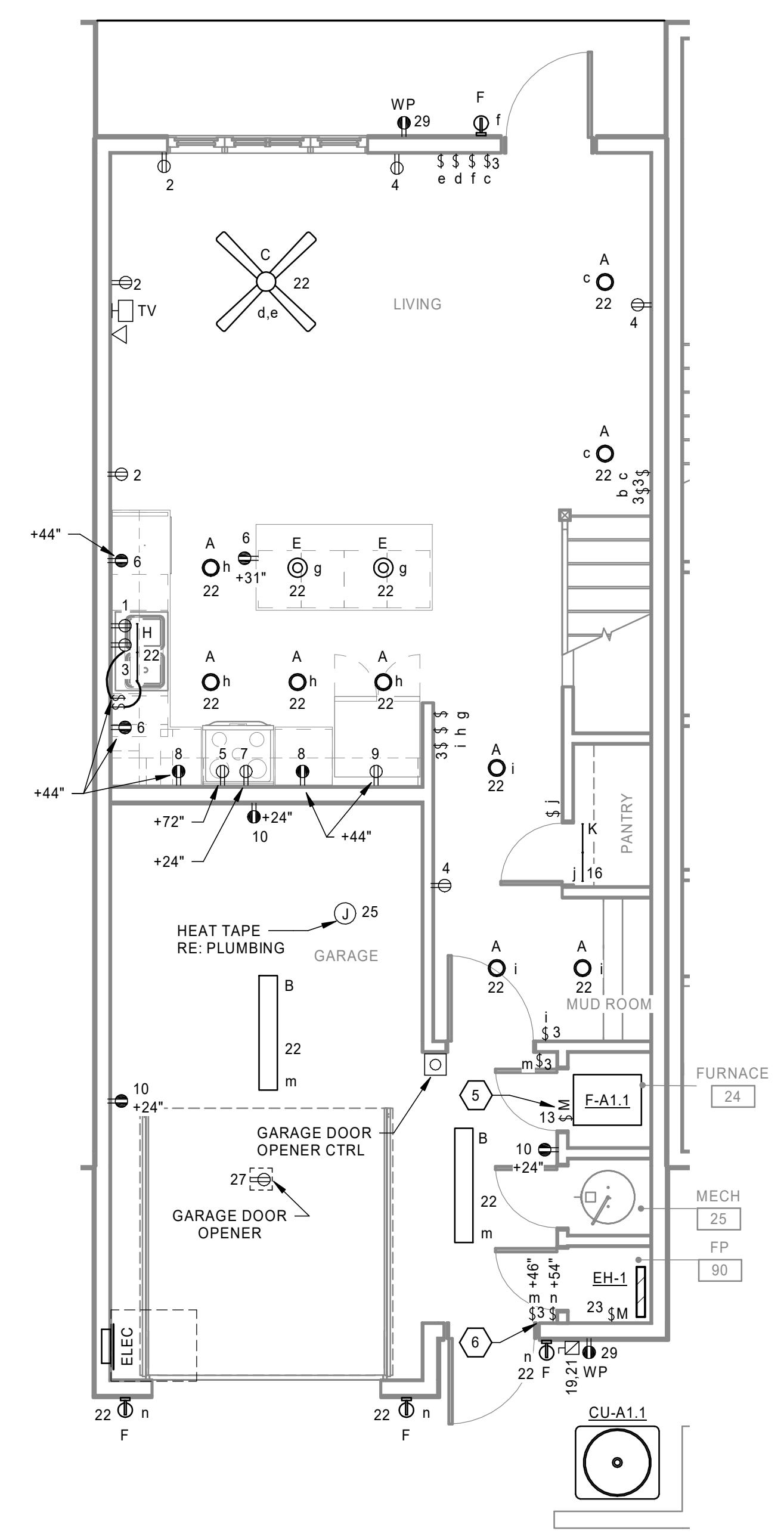
SHEET NUMBER  
**E-401**



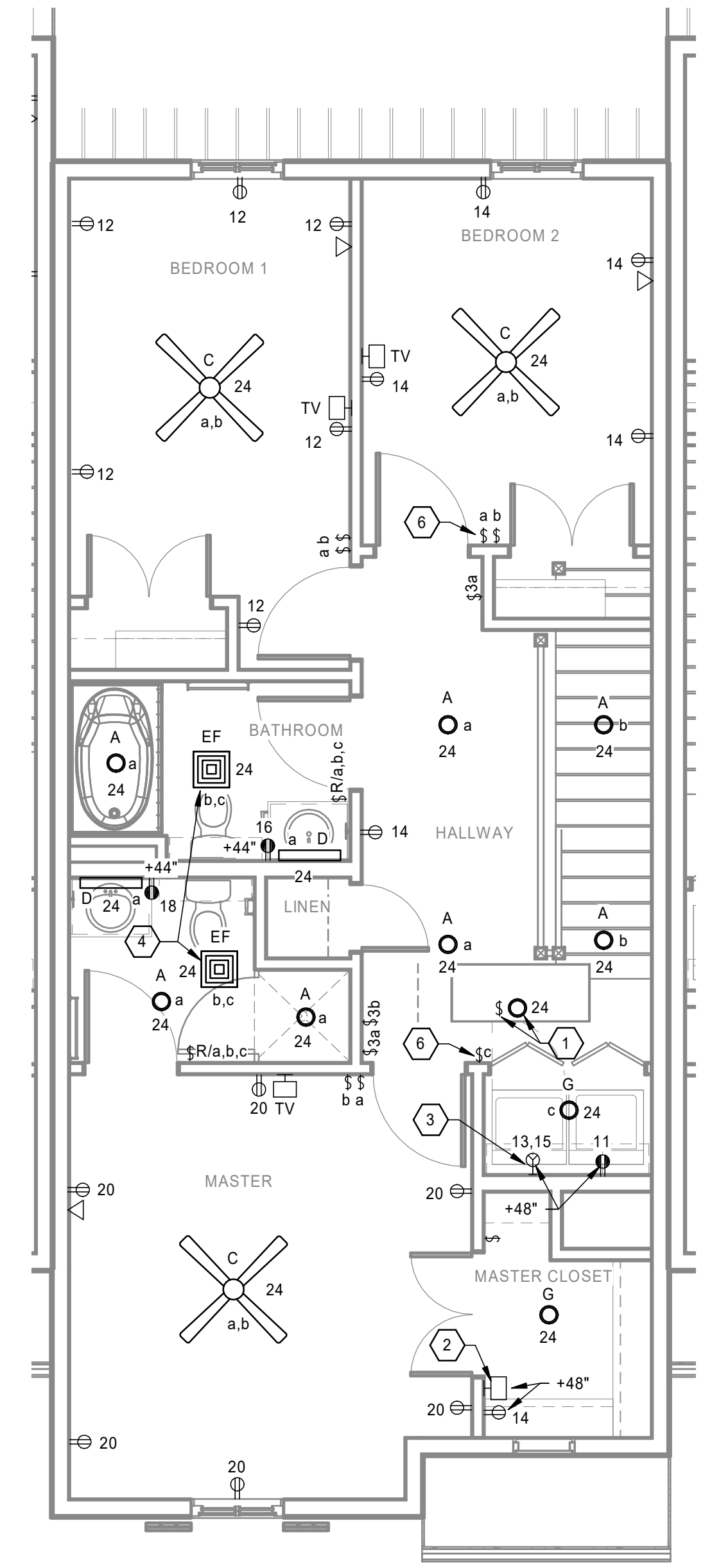
CYNERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2020  
CHRISTOPHER A. HARWELL, PE  
ENGINEER OF RECORD

**KEYNOTES**

1. PROVIDE KEYLESS PORCELAIN SOCKET LAMPHOLDER WITH LED LAMP, SATCO 9.5A19LED39K/ND120V AND LIGHT SWITCH IN ATTIC. LOCATE SWITCH IN ATTIC ADJACENT TO ACCESS DOOR.
2. ROUGH-IN FOR TELE/TV COMMUNICATIONS INTERFACE ENCLOSURE. PROVIDE ADJACENT TO DUPLEX OUTLET. PROVIDE THREE 3/4" CONDUITS OR ENT STUBBED UP INTO ACCESSIBLE ATTIC SPACE AND TWO 1" CONDUITS DOWN TO BELOW GRADE AND STUBBED UP ADJACENT TO ELECTRIC SERVICE. STUB CONDUITS 1/2" FROM EXTERIOR WALL 9" ABOVE GRADE. CONDUIT STUB UPS SHALL BE GALVANIZED RIGID STEEL, CAPPED AND LABELED WITH THE HOUSING UNIT NUMBER. COORDINATE WITH LOW VOLTAGE CONTRACTOR.
3. PROVIDE 30A 120/240V, 1PH, 4W RECEPTACLE FOR DRYER.
4. EXHAUST FAN/LIGHT PROVIDED BY MECHANICAL CONTRACTOR. PROVIDE SEPARATE SWITCH LEGS FOR FAN AND LIGHT.
5. LOCATE SWITCH TO HAVE 36" CLEAR IN FRONT AND 30" CLEAR IN WIDTH. CONTRACTOR SHALL VERIFY NEC REQUIRED WORKING CLEARANCES ARE PROVIDED AND ACCESS TO FURNACE IS NOT IMPEDED.
6. COORDINATE INSTALLATION OF RECESSED BOX AND BRANCH CIRCUIT WITH FRAMING CONTRACTOR.



**1 ENLARGED UNIT A-1.1 FIRST FL ELEC PLAN**  
1/4" = 1'-0"



**2 ENLARGED UNIT A-1.1 SECOND FL ELEC PLAN**  
1/4" = 1'-0"

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

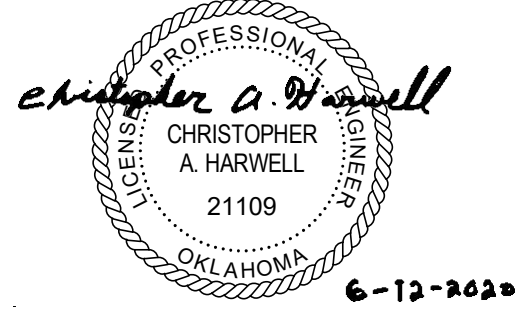
ISSUES / REVISIONS

DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100  
CHECKED BY: CAH  
DRAWN BY: JSL

SHEET NAME  
ENLARGED UNIT A-1.1  
ELECTRICAL PLANS

SHEET NUMBER  
**E-402**



CYNTERGY ENGINEERING, PLLC  
CA # 3537  
EXPIRES 6/30/2020  
CHRISTOPHER A. HARWELL, PE  
ENGINEER OF RECORD

**THE WHITTIER - PHASE 1**  
BOOMTOWN DEVELOPMENT COMPANY  
68 NORTH LEWIS  
TULSA, OK 74110

ISSUES / REVISIONS

06/12/2020	PERMIT SET - PHASE 1

ISSUE DATE: 06/12/2020  
PROJECT NO: P05093.0100

CHECKED BY: CAH  
DRAWN BY: JSL

SHEET NAME  
**ONE-LINE DIAGRAM**

SHEET NUMBER  
**E-501**

**BRANCH CIRCUIT SCHEDULE**

OVERCURRENT DEVICE	1 POLE/1 PHASE	1 POLE/1 PHASE WITH IG	2 POLE/1 PHASE	3 POLE/3 PHASE OR 2 POLE/1 PHASE WITH NEUTRAL	3 POLE/3 PHASE WITH NEUTRAL
20 AMP	2#12, 1#12G, 1/2"C	2#12, 1#12G, 1#12IG, 1/2"C	2#12, 1#12G, 1/2"C	3#12, 1#12G, 1/2"C	4#12, 1#12G, 1/2"C
25 AMP	2#10, 1#10G, 1/2"C	2#10, 1#10G, 1#10IG, 1/2"C	2#10, 1#10G, 1/2"C	3#10, 1#10G, 1/2"C	4#10, 1#10G, 1/2"C
30 AMP	2#10, 1#10G, 1/2"C	2#10, 1#10G, 1#10IG, 1/2"C	2#10, 1#10G, 1/2"C	3#10, 1#10G, 1/2"C	4#10, 1#10G, 1/2"C
35 AMP	2#8, 1#10G, 1/2"C	2#8, 1#10G, 1#10IG, 1/2"C	2#8, 1#10G, 1/2"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C
40 AMP	2#8, 1#10G, 1/2"C	2#8, 1#10G, 1#10IG, 1/2"C	2#8, 1#10G, 1/2"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C
45 AMP	2#8, 1#10G, 1/2"C	2#8, 1#10G, 1#10IG, 1/2"C	2#8, 1#10G, 1/2"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C
50 AMP	2#8, 1#10G, 1/2"C	2#8, 1#10G, 1#10IG, 1/2"C	2#8, 1#10G, 1/2"C	3#8, 1#10G, 3/4"C	4#8, 1#10G, 3/4"C
60 AMP	2#6, 1#10G, 3/4"C	2#6, 1#10G, 1#10IG, 3/4"C	2#6, 1#10G, 3/4"C	3#6, 1#10G, 3/4"C	4#6, 1#10G, 1"C
70 AMP	2#4, 1#8G, 3/4"C	2#4, 1#8G, 1#8IG, 1"C	2#4, 1#8G, 3/4"C	3#4, 1#8G, 1"C	4#4, 1#8G, 1 1/4"C
80 AMP	2#4, 1#8G, 3/4"C	2#4, 1#8G, 1#8IG, 1"C	2#4, 1#8G, 3/4"C	3#4, 1#8G, 1"C	4#4, 1#8G, 1 1/4"C
90 AMP	2#3, 1#8G, 1"C	2#3, 1#8G, 1#8IG, 1"C	2#3, 1#8G, 1"C	3#3, 1#8G, 1"C	4#3, 1#8G, 1 1/4"C
100 AMP	2#3, 1#8G, 1"C	2#3, 1#8G, 1#8IG, 1"C	2#3, 1#8G, 1"C	3#3, 1#8G, 1"C	4#3, 1#8G, 1 1/4"C

NOTES:  
A. CONDUIT SIZES ARE BASED ON 75°C, COPPER CONDUCTORS, AND EMT. CONTRACTOR SHALL PROVIDE LARGER CONDUITS AS REQUIRED.  
B. CONDUCTOR AND CONDUIT SIZES LISTED ARE THE MINIMUM REQUIRED FOR THE ASSOCIATED OVERCURRENT DEVICE SHOWN. CONTRACTOR MAY UPSIZE CONDUCTORS AND/OR CONDUIT.  
C. ADJUST CONDUCTOR AND CONDUIT SIZES AS REQUIRED PER NEC IN ACCORDANCE WITH NFPA AND ENERGY CODES TO LIMIT VOLTAGE DROP.

**'HOUSE'**

**LOAD CENTER SCHEDULE**

SUPPLY FROM RE: ONE-LINE DIAGRAM  
MOUNTING: SURFACE  
ENCLOSURE: NEMA 3R

VOLTAGE: 240/120V  
PHASE: 1  
WIRE: 3

A.I.C. RATING: 10,000  
MAIN TYPE: MCB  
MAIN RATING: 60 A

CKT	DESCRIPTION	CB TRIP RATING	POLES	A	B	POLES	CB TRIP RATING	DESCRIPTION	CKT
1	SIGN LIGHTING	20 A	1	210 VA	0 VA	1	20 A	SPARE	2
3	RECEPTACLE	20 A	1		180 VA	0 VA	1	20 A	4
5	SPARE	20 A	1	0 VA	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1		0 VA	0 VA	1	20 A	8
CONNECTED VA LOAD PER PHASE:				210 VA	180 VA				
CONNECTED AMPERE LOAD PER PHASE:				2 A	2 A				

LOAD CLASSIFICATION	CONNECTED...	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS
LIGHTING LOAD	210 VA	125.00%	263 VA	
RECEPTACLE LOAD	180 VA	100.00%	180 VA	
				TOTAL CONNECTED VA: 385 VA
				TOTAL DEMAND VA: 437 VA
				TOTAL CONNECTED... 2 A
				TOTAL DEMAND... 2 A

NOTES:  
SERVICE ENTRANCE RATED

**UNIT A-1, A-1.1**

**LOAD CENTER SCHEDULE**

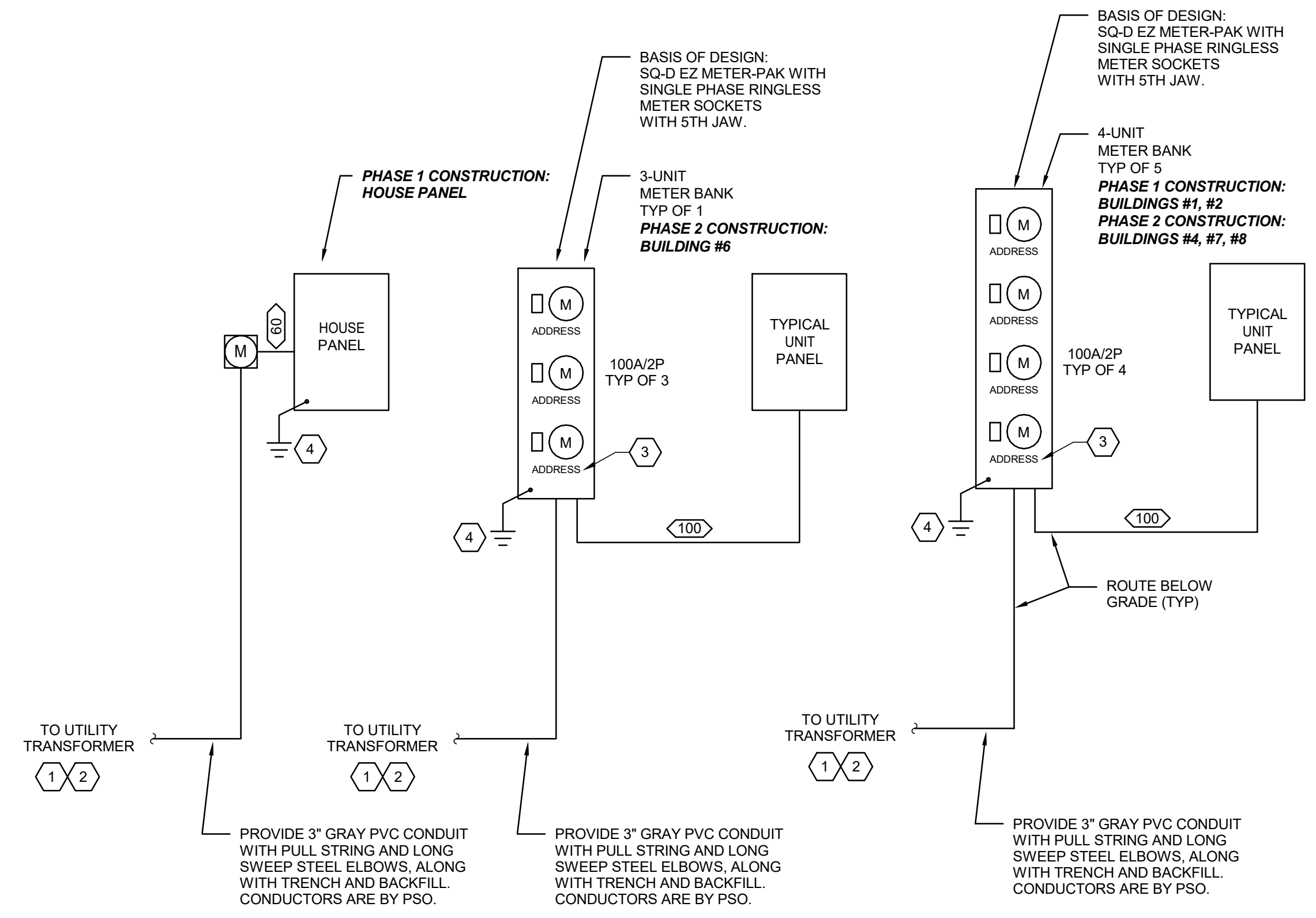
SUPPLY FROM RE: ONE-LINE DIAGRAM  
MOUNTING: RECESSED  
ENCLOSURE: TYPE 1

VOLTAGE: 240/120V  
PHASE: 1  
WIRE: 3

A.I.C. RATING: 10,000  
MAIN TYPE: MLO  
MAIN RATING: 100 A

CKT	DESCRIPTION	CB TRIP RATING	POLES	POLES	CB TRIP RATING	DESCRIPTION	CKT
1	DISHWASHER	20 A	1	1	20 A	RECEPTACLES - LIVING	2
3	GARBAGE DISPOSAL	20 A	1	1	20 A	RECEPTACLES - LIVING	4
5	MICROWAVE (GFCI)	20 A	1	1	20 A	RECEPTACLES - KITCHEN	6
7	RANGE (GFCI)	20 A	1	1	20 A	RECEPTACLES - KITCHEN	8
9	REFRIGERATOR	20 A	1	1	20 A	RECEPTACLES - GARAGE	10
11	WASHING MACHINE	20 A	1	1	20 A	RECEPTACLES - BEDROOM	12
13	CLOTHES DRYER	30 A	2	1	20 A	RECEPTACLES - BEDROOM	14
15				1	20 A	RECEPTACLES - BATHROOM	16
17	F-A (FURNACE)	20 A	1	1	20 A	RECEPTACLES - MASTER BATHROOM	18
19	CU-A (CONDENSING UNIT)	30 A	2	1	20 A	RECEPTACLES - MASTER BEDROOM	20
21				1	20 A	LIGHTING - FIRST FLOOR	22
23	ELECTRIC HEATER	20 A	1	1	20 A	LIGHTING - SECOND FLOOR	24
25	HEAT TAPE (GFEP 30mA)	20 A	1	1	20 A	SPARE	26
27	GARAGE DOOR OPENER (GFCI)	20 A	1	1	20 A	SPARE	28
29	RECEPTACLES - EXTERIOR	20 A	1	1	20 A	FIRE ALARM DEVICES	30

NOTES:  
A. ALL 20A/1P CIRCUIT BREAKERS ARE TO BE ARC-FAULT CIRCUIT (AFCI) BREAKERS UNLESS NOTED OTHERWISE.  
B. BREAKERS NOTED AS GFCI ARE TO BE COMBINATION AFCI/GFCI.  
C. PROVIDE TWO SPARE 1/2" CONDUITS STUBBED UP INTO ACCESSIBLE ATTIC SPACE.



**COPPER BRANCH CIRCUIT AND FEEDER SIZE**  
NOTE: BASED ON COPPER 75° THWN AND EMT OR RIGID PVC (SCHEDULE 40)

**1 PHASE, 3 WIRE**

**240 VOLT**

ITEM #	CIRCUIT BREAKER	3 #	1 # GROUND	EMT CONDUIT	RIGID PVC CONDUIT
20	20	12	12	1/2	1/2
25	25	10	10	1/2	1/2
30	30	10	10	1/2	1/2
40	40	8	10	3/4	3/4
45	45	8	10	3/4	3/4
50	50	8	10	3/4	3/4
60	60	6	10	1	1
70	70	4	8	1	1
80	80	4	8	1	1
90	90	3	8	1	1
100	100	3	8	1	1

**KEYNOTES**

1	COORDINATE ALL ELECTRIC UTILITY COMPANY REQUIREMENTS PRIOR TO BID WITH PUBLIC SERVICE COMPANY OF OKLAHOMA (PSO). ATTN: ECHO HILLESAND 918-250-0252
2	REFER TO CIVIL DRAWINGS FOR LOCATIONS OF TRANSFORMERS AND ADDITIONAL INFORMATION.
3	PROVIDE LABEL FOR ALL RESIDENCE ADDRESSES.
4	PROVIDE GROUNDING ELECTRODE AND GROUNDING ELECTRODE CONDUCTORS AS REQUIRED BY NEC 250. PROVIDE WEATHERPROOF INTERSYSTEM BONDING EQUIPMENT ADJACENT TO SERVICE ENTRANCE EQUIPMENT PER NEC 250.94. PROVIDE LABEL FOR CONDUCTORS STATING "INTERSYSTEM BONDING JUMPER".

**1 ONE-LINE DIAGRAM**  
NOT TO SCALE

RESIDENTIAL MULTI-FAMILY LOAD CALCULATION				
BUILDINGS #1, #2, #4, #7, #8				
UNIT TYPE:	QTY	CONNECTED VA	TOTAL	KVA
A-1	2	23,670	47	kVA
A-1.1	2	23,766	48	kVA
TOTAL CONNECTED RESIDENTIAL LOAD	4		95	kVA
NEC TABLE 220.84 DIVERSITY FACTOR	TOTAL CONNECTED LOAD	DIVERSITY FACTOR		
	95	0.45		
TOTAL DIVERSIFIED LOAD			43	kVA
LOAD FOR RESIDENTIAL SERVICE AMPS AT 240V, 1PH, 3W			178	AMPS

RESIDENTIAL MULTI-FAMILY LOAD CALCULATION				
BUILDING #6				
UNIT TYPE:	QTY	CONNECTED VA	TOTAL	KVA
A-1	2	23,670	47	kVA
A-1.1	1	23,766	24	kVA
TOTAL CONNECTED RESIDENTIAL LOAD	3		71	kVA
NEC TABLE 220.84 DIVERSITY FACTOR	TOTAL CONNECTED LOAD	DIVERSITY FACTOR		
	71	0.45		
TOTAL DIVERSIFIED LOAD			32	kVA
LOAD FOR RESIDENTIAL SERVICE AMPS AT 240V, 1PH, 3W			133	AMPS

UNIT LOAD CALCULATION				
A-1				
UNIT TYPE:	SF/QTY	VA	TOTALS	
DWELLING UNIT LIGHTING, GENERAL-USE RECEP, BATHROOM RECEP, AND OUTDOOR RECEP (SF)	1,558	3	4,674	VA
SMALL APPLIANCE CIRCUIT #1 LOAD (RESIDENTIAL UNIT)	1	1,500	1,500	VA
SMALL APPLIANCE CIRCUIT #2 LOAD (RESIDENTIAL UNIT)	1	1,500	1,500	VA
LAUNDRY CIRCUIT LOAD (RESIDENTIAL UNIT)	1	1,500	1,500	VA
GARBAGE DISPOSAL	1	1,008	1,008	VA
MICROWAVE	1	1,000	1,000	VA
DISHWASHER	1	740	740	VA
CLOTHES DRYERS (NOT ON THE LAUNDRY CIRCUIT)	1	5,000	5,000	VA
TOTAL GENERAL LOAD			16,922	VA
NEC 220.82 CALCULATION FIRST 10 KVA AT 100% REMAINDER AT 40%	FIRST 10 KVA AT 100%	REMAINDER AT 40%		
	10,000	2,769	12,769	VA
100% OF CONDENSING UNIT	1	4,608	4,608	VA
100% OF FURNACE SECTION	1	1,440	1,440	VA
100% ELEC HEATER	1	500	500	VA
100% ELEC HEAT TAPE	1	200	200	VA
TOTAL DIVERSIFIED LOAD			20	kVA
LOAD FOR UNIT SERVICE AMPS AT 240V/1PH, 3W			81	AMPS
TOTAL CONNECTED LOAD			24	kVA

UNIT LOAD CALCULATION				
A-1.1				
UNIT TYPE:	SF/QTY	VA	TOTALS	
DWELLING UNIT LIGHTING, GENERAL-USE RECEP, BATHROOM RECEP, AND OUTDOOR RECEP (SF)	1,590	3	4,770	VA
SMALL APPLIANCE CIRCUIT #1 LOAD (RESIDENTIAL UNIT)	1	1,500	1,500	VA
SMALL APPLIANCE CIRCUIT #2 LOAD (RESIDENTIAL UNIT)	1	1,500	1,500	VA
LAUNDRY CIRCUIT LOAD (RESIDENTIAL UNIT)	1	1,500	1,500	VA
GARBAGE DISPOSAL	1	1,008	1,008	VA
MICROWAVE	1	1,000	1,000	VA
DISHWASHER	1	740	740	VA
CLOTHES DRYERS (NOT ON THE LAUNDRY CIRCUIT)	1	5,000	5,000	VA
TOTAL GENERAL LOAD			17,018	VA
NEC 220.82 CALCULATION FIRST 10 KVA AT 100% REMAINDER AT 40%	FIRST 10 KVA AT 100%	REMAINDER AT 40%		
	10,000	2,807	12,807	VA
100% OF CONDENSING UNIT	1	4,608	4,608	VA
100% OF FURNACE SECTION	1	1,440	1,440	VA
100% ELEC HEATER	1	500	500	VA
100% ELEC HEAT TAPE	1	200	200	VA
TOTAL DIVERSIFIED LOAD			20	kVA
LOAD FOR UNIT SERVICE AMPS AT 240V/1PH, 3W			81	AMPS
TOTAL CONNECTED LOAD			24	kVA



810 SOUTH CINCINNATI  
 SECOND FLOOR  
 TULSA, OK 74119  
 918.877.6000  
 www.cynergy.com



CYNERGY ENGINEERING, PLLC  
 CA # 3537  
 EXPIRES 6/30/2020  
 CHRISTOPHER A. HARWELL, PE  
 ENGINEER OF RECORD

THE WHITTIER - PHASE 1  
 BOOMTOWN DEVELOPMENT COMPANY  
 68 NORTH LEWIS  
 TULSA, OK 74110

ISSUES / REVISIONS		
NO.	DATE	DESCRIPTION
06/12/2020	PERMIT SET - PHASE 1	

ISSUE DATE: 06/12/2020  
 PROJECT NO: P05093.0100  
 CHECKED BY: CAH  
 DRAWN BY: JSL

SHEET NAME  
 RESIDENTIAL LOAD CALCULATIONS

SHEET NUMBER  
 E-601