KING COUNTY HOUSING AUTHORITY - PARK ROYAL

PROJECT TEAM

OWNER:

KING COUNTY HOUSING AUTHORITY 700 ANDOVER PARK W. SUITE C SEATTLE, WA 98188 (206) 574-1249 CARL FRANKEL <CarlF@KCHA.org>

ARCHITECT: LAWHEAD ARCHITECTS, P.S.

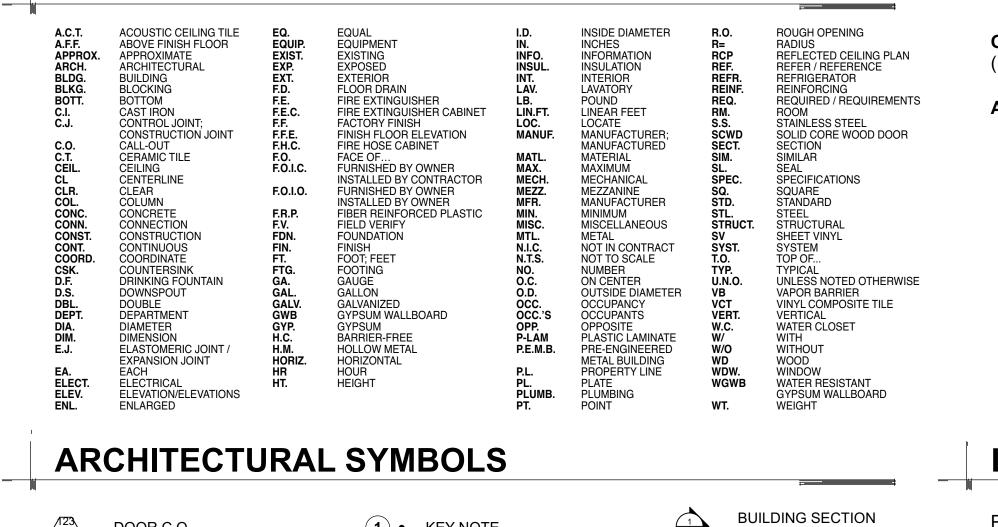
12342 NORTHUP WAY BELLEVUE, WA 98005 (425) 556-1220 FRANK LAWHEAD <flawhead@lawhead.com> STRUCTURAL: PCS STRUCTURAL SOLUTIONS, INC. 1011 WESTERN AVENUE SUITE 810 SEATTLE, WA 98104 (206) 292-5076 STEVE FARVOUR <sfarvour@pcs-structural.com>

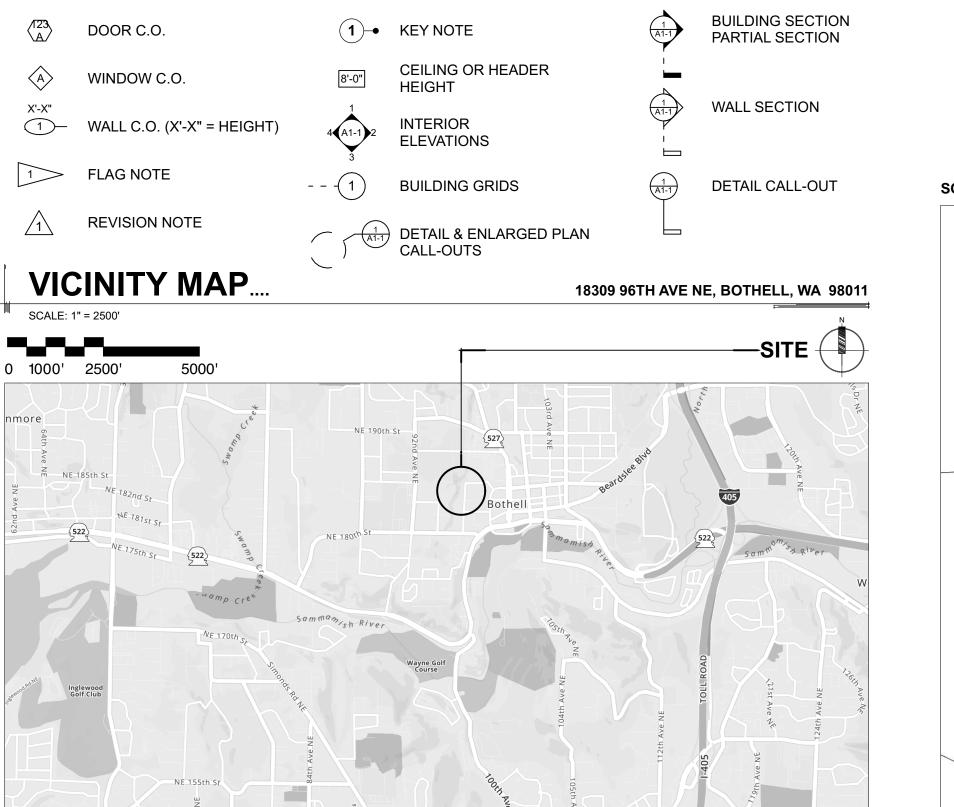
PROJECT DESCRIPTION

THE PROPOSED PROJECT CONSISTS OF THE FOLLOWING IMPROVEMENTS TO (2) EXISTING APARTMENT BUILDINGS CONSTRUCTED IN 1967, PROPERTY OF KING COUNTY HOUSING AUTHORITY: REPLACEMENT OF EXISTING ASPHALT SHINGLE ROOFING WITH NEW REPLACEMENT OF PLYWOOD SHEATHING WHERE DAMAGED & PROVISION OF ADDITIONAL SUPPORT AT DETERIORATED RAFTERS WHERE INDICATED IN DOCUMENTS. PROVISION OF NEW & REFURBISHED HVAC ROOF JACKS & VENT STACKS, NEW PLUMBING VENT FLASHING NEW FASCIA BOARDS, EDGE FLASHING, NEW SOFFITS, NEW GUTTERS & DOWNSPOU OUTLETS WHERE TYING INTO EXISTING PVC DOWNSPOUTS. PROVISION OF NEW ROOF ACCESS LADDER. PROVISION OF NEW BIDDER-DESIGNED FALL PROTECTION SYSTEM WITH SUPPORTING STRUCTURE AS SHOWN. REPLACEMENT OF ELEVATED PEDESTRIAN WALKWAYS & STAIRS & ASSOCIATED RAILING. REPLACEMENT OF EXISTING SIDING & AIR WEATHER BARRIER SYSTEM WITH NEW SIDING. ADDITION OF FIRE-RATED GYPSUM SHEATHING TO EXTERIOR. REPLACEMENT OF ALL DOORS & WINDOWS. GRAVITY BLOCK WALL INSTALLATION IN PLACE OF EXISTING ROCKERY WALL

ALL DEMOLITION AND RESTORATION RELATED TO THE ABOVE SCOPE OF WORK.

ARCHITECTURAL ABBREVIATIONS





PROJEC1

SITE ADDRESS:

PARCEL:

LOT AREA:

ZONING:

BUILDING AREA (UNCHANGED)

HEIGHT: (UNCHANGED)

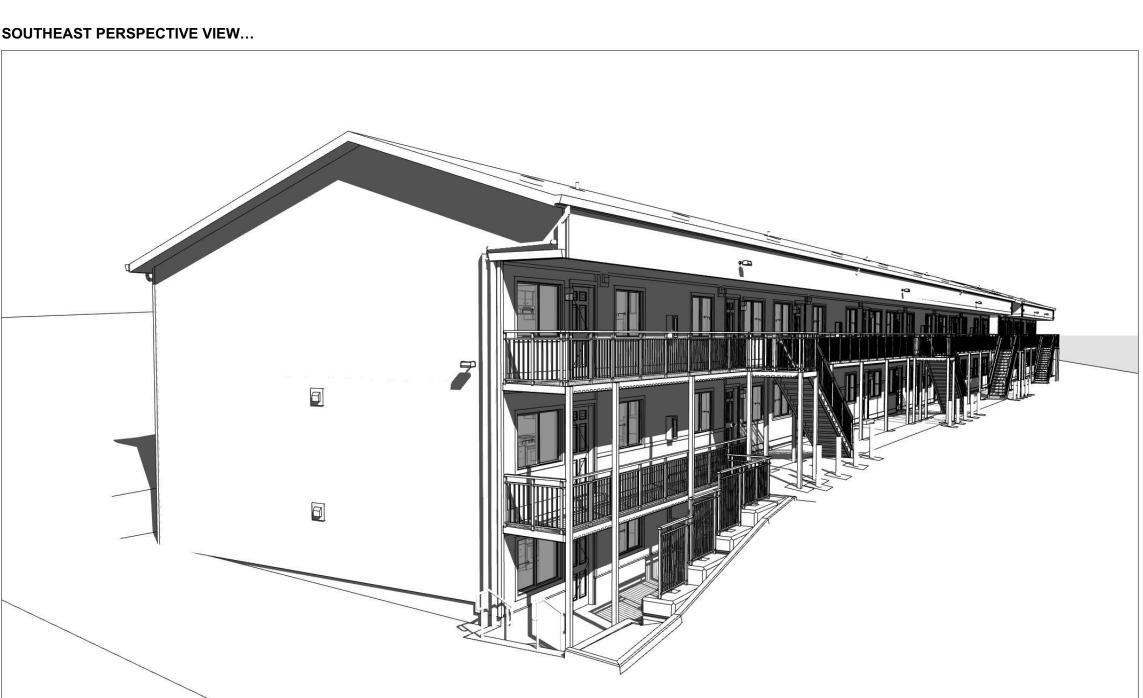
CONSTRUCTION (IBC 601)

OCCUPANCY: (IBC 302)

APPLICABLE CO BOTHELL M 2018 IBC, V 2018 IEBC, 2018 WSEC 2009 ICC/AI 2018 IFC, W

2018 UPC, WAC 51-56

POR OF N 1/2 OF NE 1/4 OF NW 1/4 OF NE 1/4 BEG 30 FT W OF NE COR TH S TAP 235 FT N OF S LN OF SUBD & TPOB TH S 235 FT TO SD S LN TH W 90 FT TH N PLT W LN 96TH AVE NE 235 FT TH ELY 90 FT TO BEG



ROJECT DATA				INDEX	,
E ADDRESS:	18309 96TH AVE NE BOTHELL, WA 98011				R SHEET
RCEL:	#072605-9390			SURVEY	
				1	EXISTING SURVEY
ΓAREA:	21,150 SQ. FT. (0.49	ACRES)		ARCHITEC	ΓURAL
NING:	DT – DOWNTOWN T AFFORDABLE HOUS			A1-1 AD-1 A2-1	SITE PLAN & DETAILS DEMOLITION PLAN FLOOR PLAN
LDING AREA: CHANGED)	2ND PLAN 1ST PLAN BASEMENT PLAN COMBINED AREA	 = 6,792 SQ. FT. = 6,792 SQ. FT. = <u>+ 783 SQ. FT.</u> = 14,367 SQ. FT. "BUILDING AREA" PER IBC 202 DEFINITION. 	7,920 SQ. FT. 7,920 SQ. FT. <u>+ 990 SQ. FT.</u> 16,830 SQ. FT. GROSS FLOOR AREA INCL. COVERED WALKWAYS	A2-2 A2-3 A2-4 A2-5 A3-1 A4-1 A4-2 A5-1	FLOOR PLAN, & FOUNDATIO ROOF PLAN EXITING PLAN SCHEDULES ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS WALL SECTIONS
GHT: CHANGED)	THREE-STORY BUIL			A5-2 A8-1 A8-2	WALL SECTIONS EXTERIOR DETAILS EXTERIOR DETAILS
		0-FEET (BMC 12.64.103 & 35-FEET (BMC 12.64.1	,	STRUCTUR	AL
NSTRUCTION TYPE: C 601)	*REFERENCE BMC	R), *NON-SPRINKLERE 20.10.040 FOR APPLICA D EXISTING BUILDINGS	ATION OF SPRINKLER	S0-1 S0-2 S0-3 S2-1 S2-2	GENERAL NOTES GENERAL NOTES GENERAL NOTES LEVEL 1 & 2 FLOOR FRAMIN LEVEL 1 FOUNDATION & RO
CUPANCY: C 302)	R-2 – RESIDENTIA	AL CONGREGATE: 14,3	67 SF	S3-1 S3-2 S3-3	STRUCTURAL DETAILS STRUCTURAL DETAILS STRUCTURAL DETAILS
PLICABLE CODES: BOTHELL MUNICIPAL CODE 2018 IBC, WAC 51-50 2018 IEBC, WAC 51-50 2018 WSEC, WAC 51-11R 2009 ICC/ANSI A117.1 2018 IFC, WAC 51-54A 2018 IMC, WAC 51-52	(BMC)			ORDER OF	RAL NOTES PREFERENCE: WHERE CONF ICE OVER SPECIFICATIONS AND

LEGAL DESCRIPTION

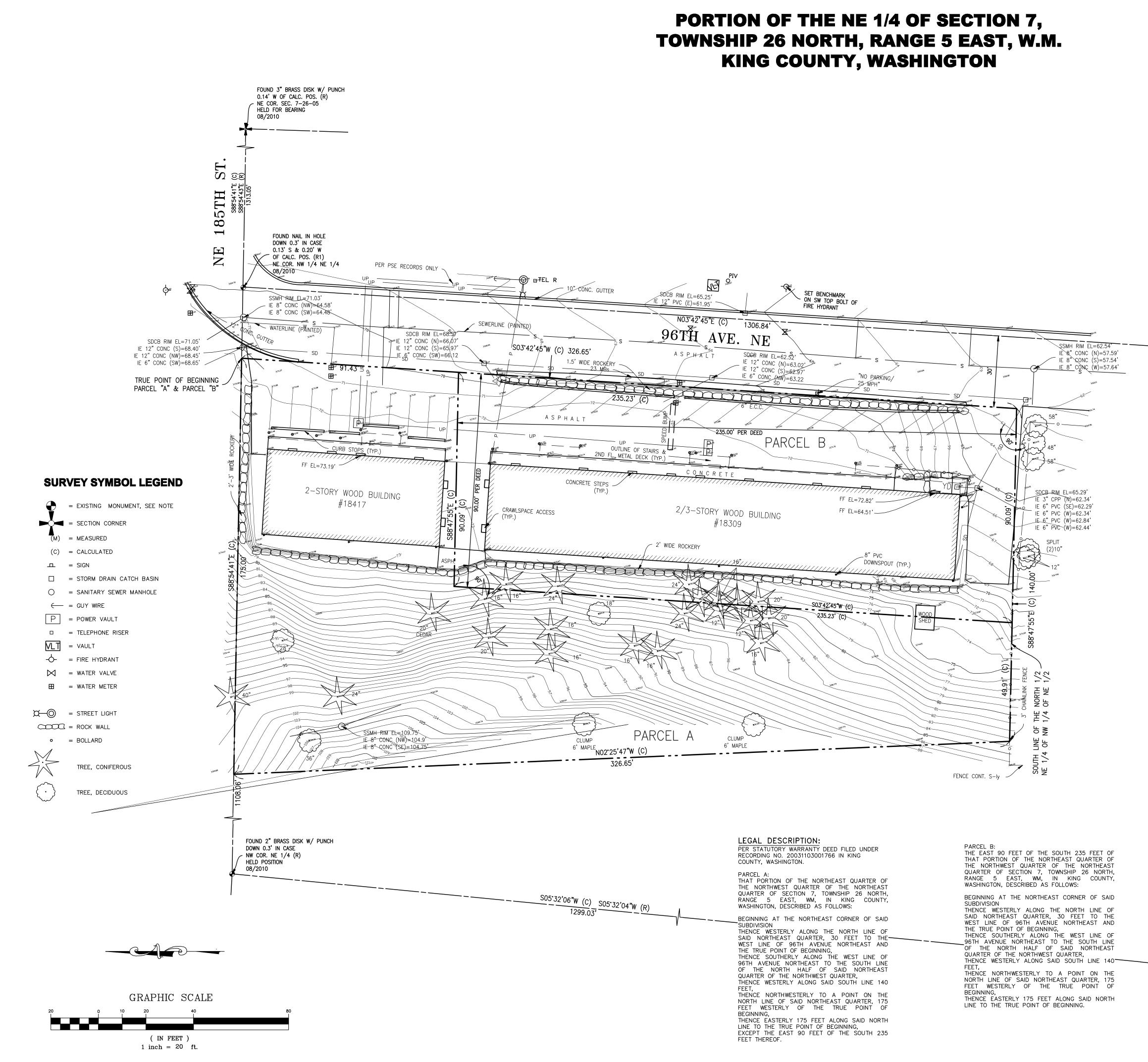
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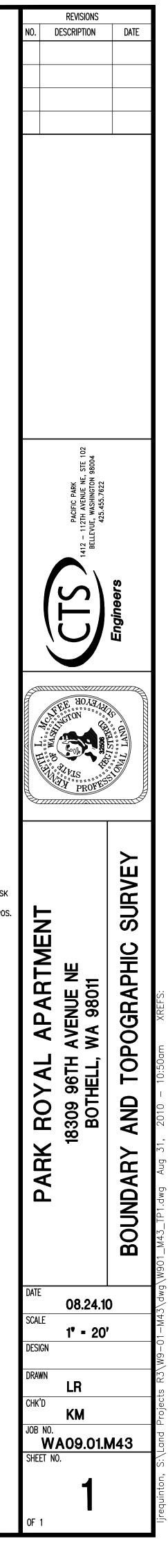
LAWHEAD ARCHITECTS P.S. 1239 120TH AVE. N.E., STE. D BELLEVUE, WA 98005 (425) 556-1220 SIGNATURE .. 4565 REGISTERE ABCHITEC 2 h FRANK E. LAWHEAD STATE OF WASHINGTON OWNER.. Housing U 7 # + thori ТТ 50 ld \sim \sim \checkmark sin \mathcal{O} em $0 \mathcal{H}$ 3 Õ, 2 a + 11 Z C 101 9 χte Kin μj PHASE ... **Bid Set** JOB NO... 20-06 +---DATE... 1/17/22 SHEET TITLE ... Cover Sheet SHEET NO ...

ION PLAN

NG PLANS OOF FRAMING PLANS

NFLICTS OCCUR, THE SCOPE OF WORK TAKES ID SPECIFICATIONS TAKE PRECEDENCE OVER THE





SITE NOTES:

BASIS OF BEARING: HELD A BEARING OF S88'54'41"E BETWEEN TWO FOUND MONUMENTS ALONG THE NORTH SECTION LINE AS SHOWN NAD 83 (1991), WASHINGTON NORTH ZONE COORDINATES.

HORIZONTAL DATUM:

HELD WASHINGTON COUNCIL OF COUNTY SURVEYORS CONTROL POINTS DESCRIBED BELOW:

STATION 432, 3" BRASS DISK W/ PUNCH DOWN 0.3' IN MON CASE LOCATED AT THE INTERSECTION OF NE 185TH ST. & 92ND AVE NE. GRID NORTHING: 281022.332 US FEET GRID EASTING: 1299973.918 US FEET

STATION 431, 3" BRASS DISK W/ PUNCH IN ASPHALT LOCATED AT PARKING LOT EAST OF NE 185TH ST. GRID NORTHING: 280972.470 US FEET

GRID EASTING: 1302599.559 US FEET ALL ANGLES AND DISTANCES SHOWN HEREON ARE GROUND.

VERTICAL DATUM:

FOUND 2" BRASS DISK W/ PUNCH

- 0.33' N & 0.14' E OF CALC. POS. (R)

DOWN 1.5' IN CASE

08/2010

SE COR. NW 1/4 NE 1/4

HELD WASHINGTON STATE DEPARTMENT OF TRANSPORTATION VERTICAL STATION DESCRIBED BELOW:

STATION 2372, WSDOT BRASS DISK LOCATED ON SR 522 NEAR MILE POST 9.55. (NAVD 1988) ELEVATION = 49.88'

SURVEY EQUIPMENT: CONVENTIONAL SURVEY EQUIPMENT WAS USED IN THE PERFORMANCE OF THIS SURVEY. ALL

EQUIPMENT IS MAINTAINED IN CONFORMANCE WITH CURRENT STATE STATUTE. SURVEY PROCEDURES:

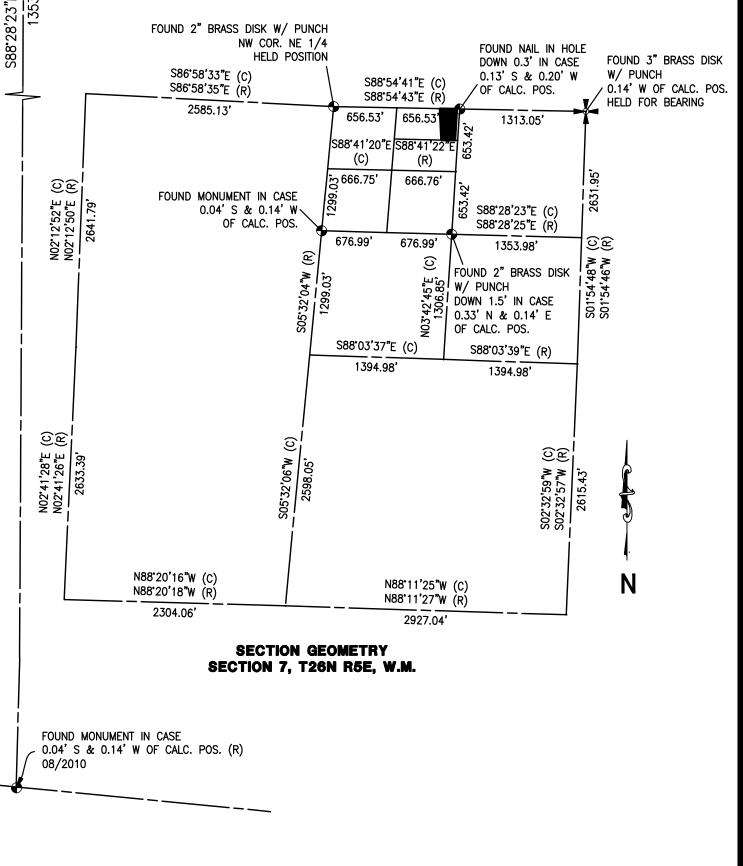
FIELD TRAVERSE METHOD MEETS OR EXCEEDS MINIMUM REQUIREMENTS IN ACCORDANCE WITH WAC 332-130-090.

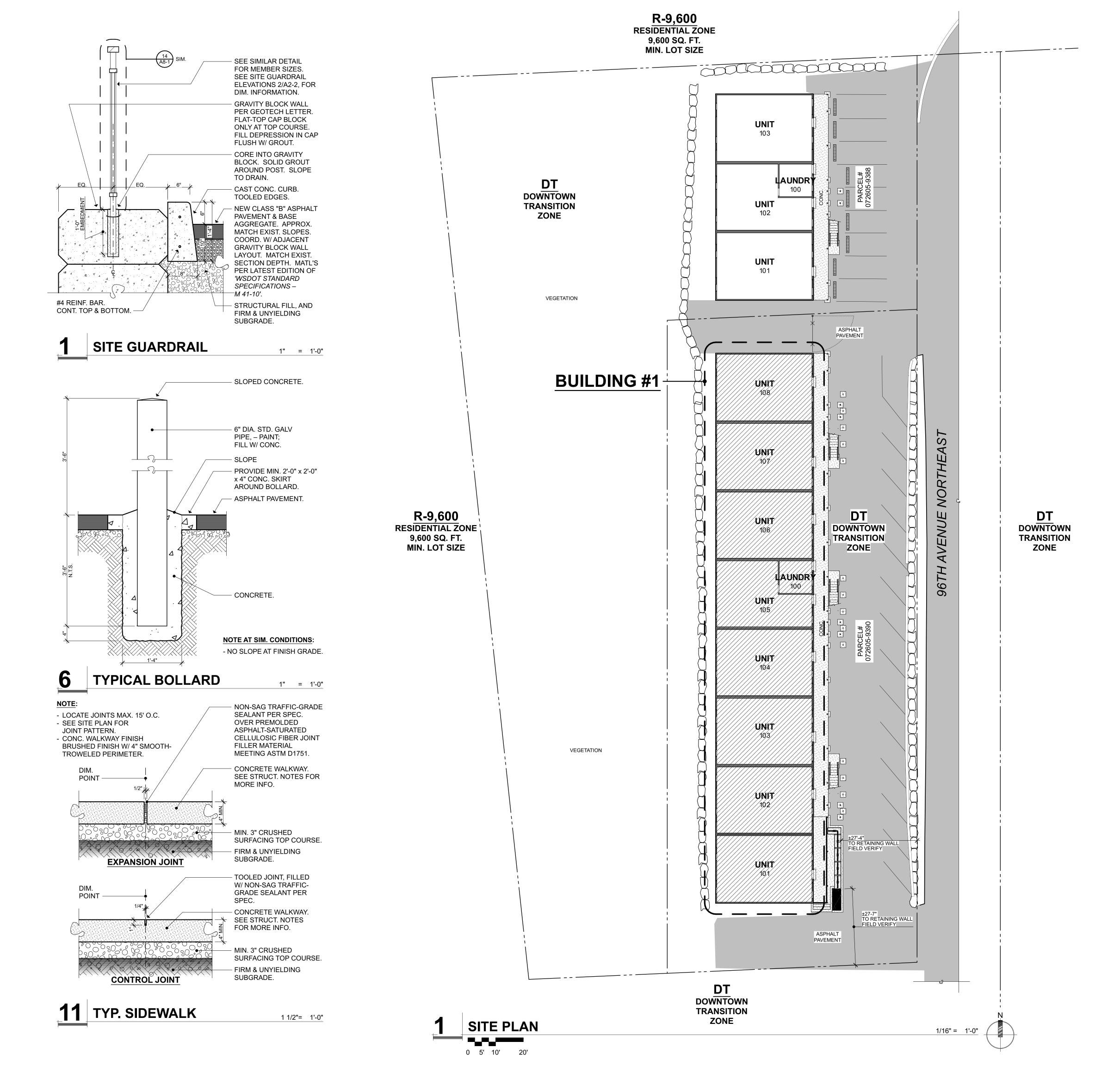
REFERENCE

CITY OF BOTHELL BOUNDARY LINE (R) ÀDJUSTMENT CASE NO. 004-97 FILED UNDER RECORDING NO. 9806159001 IN KING COUNTY, WASHINGTON

NOTE

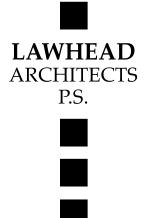
THIS BOUNDARY SURVEY WAS DONE WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS OF RECORD ARE NOT SHOWN.



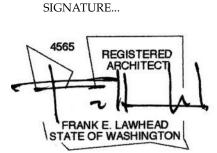


GENERAL NOTES:

- 1. PATCH & REPAIR EXISTING CONCRETE AND ASPHALT PAVEMENT AFTER NEW FOUNDATION INSTALLATION AND GRAVITY BLOCK WALL INSTALLATION. FOR CONCRETE PAVEMENT SEE DETAIL 11/A1-1 FOR MORE INFORMATION. FOR ASPHALT PAVEMENT PROVIDE CLASS "B" ASPHALT PAVEMENT & BASE AGGREGATE. APPROXIMATELY MATCH EXISTING SLOPES. COORDINATE WITH GRAVITY BLOCK WALL LAYOUT. MATCH EXISTING SECTION DEPTH. MATERIALS TO BE PER LATEST EDITION OF *'WSDOT STANDARD SPECIFICATIONS – M* 41-10'. RESTRIPE PARKING STALLS IN ORIGINAL LOCATIONS WHERE DISTURBED.
- 2. PROVIDE NEW BOLLARDS PER DETAIL 6/A1-1.







OWNER...





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DATE...

1/17/22

HEET TITLE...

Site Plan & Details

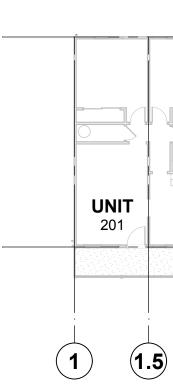


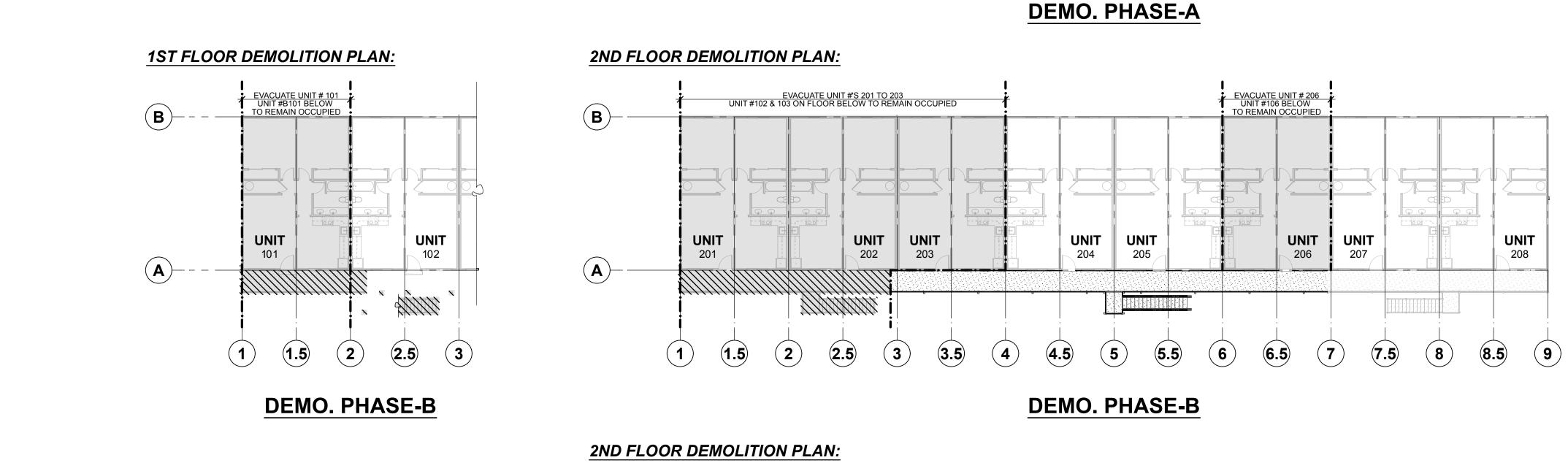
2ND FLOOR DEMOLITION PLAN:

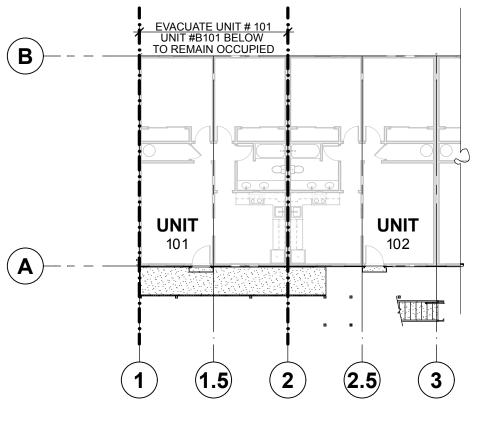
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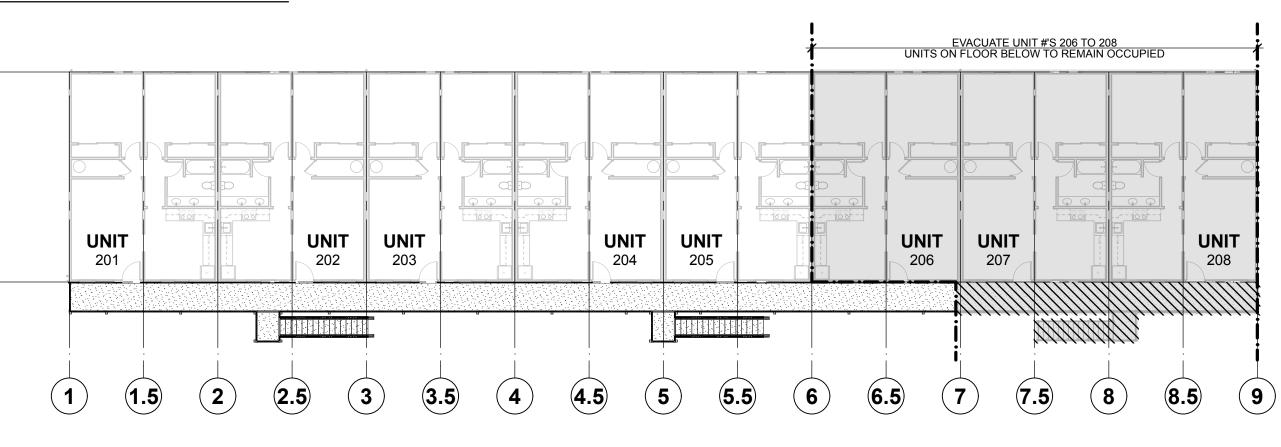
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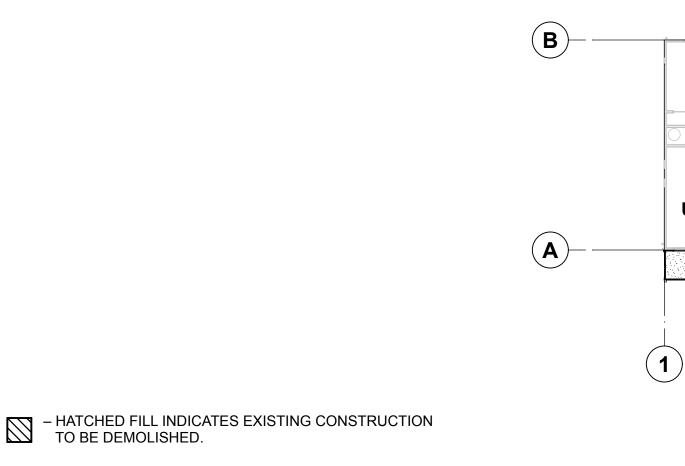


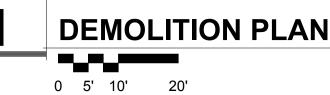


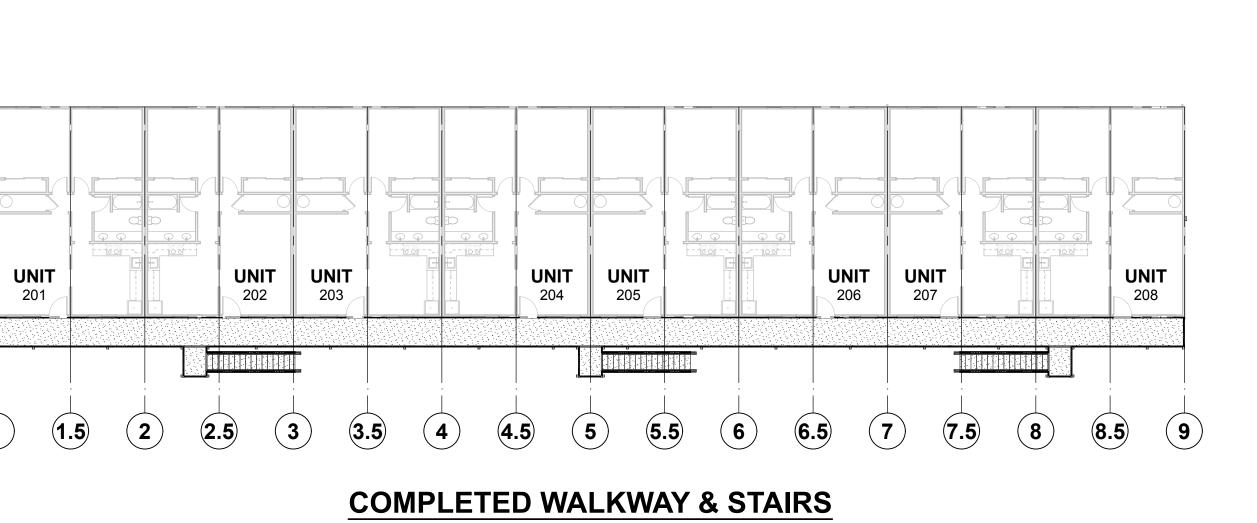


COMPLETED WALKWAY

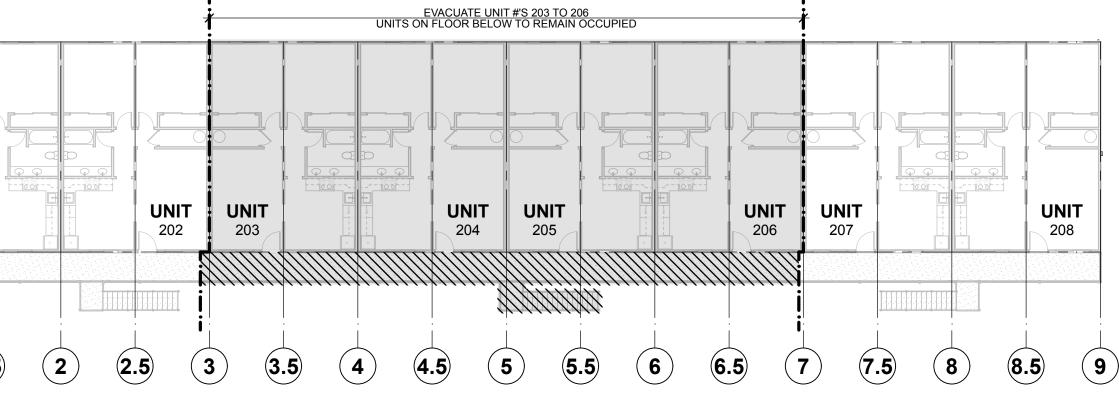








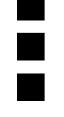
DEMO. PHASE-C



GENERAL NOTES:

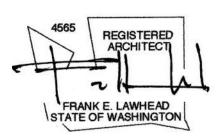
- 1. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SAFE & SECURE ACCESS TO TENANTS IN CONSTRUCTION AREAS AT ALL TIMES.
- 2. WHERE TEMPORARILY SUPPORTING PARTIALLY DEMOLISHED OR PARTIALLY CONSTRUCTED ELEVATED WALKWAYS SERVING OCCUPIED UNITS, CONTRACTOR TO PROVIDE BIDDER-DESIGNED SHORING. SUBMIT ENGINEERED, STAMPED, AND SIGNED SHORING DRAWINGS PRIOR TO CONSTRUCTION.
- 3. DEMOLISH PAVEMENT / EXCAVATE TO REMOVE EXISTING COLUMN FOOTINGS, ROCKERY WALL, & OTHER SITE FEATURES SLATED FOR REPLACEMENT, AND TO MAKE WAY FOR NEW FOUNDATIONS & GRAVITY BLOCK WALL INSTALLATION. NEATLY SAWCUT EDGES ABUTTING EXISTING CONSTRUCTION. USE CARE NOT TO UNDERMINE EXISTING BUILDING FOUNDATION.
- 4. REMOVE ALL EXISTING ASPHALT SHINGLE ROOFING & UNDERLAYMENT TO MAKE WAY FOR NEW. REMOVE ASSOCIATED FLASHING, GUTTERS, DOWNSPOUTS, FASCIA, & SOFFITS. REMOVE EXISTING PLYWOOD ROOF SHEATHING WHERE DETERIORATED & TO MAKE WAY FOR INSTALLATION OF SUPPORT FOR NEW BIDDER-DESIGNED FALL PROTECTION SYSTEM. COORDINATE WITH OWNER FOR EXTENT OF PLYWOOD REMOVAL. CUT ADDITIONAL OPENINGS FOR NEW STATIC ROOF VENTS.
- 5. REMOVE ALL EXISTING SIDING & AIR / WEATHER BARRIER TO MAKE WAY FOR NEW. USE CARE NOT TO DAMAGE UNDERLYING FIRE-RATED SHEATHING WHERE EXISTING. REMOVE EXISTING PLYWOOD SHEATHING TO MAKE WAY FOR INSTALLATION OF SUPPORT FOR NEW ROOF ACCESS LADDER.
- 6. REMOVE ALL EXISTING DOORS & WINDOWS TO MAKE WAY FOR NEW. COORDINATE WITH OWNER ON SEQUENCING OF REPLACEMENT. REMOVE EXISTING GABLE END VENTS.
- 7. REMOVE, SALVAGE, & SAFELY STORE ALL EXISTING FIXTURES & EQUIPMENT DESIGNATED TO BE RÉ-USED IN THE AREA OF WORK.
- 8. DEMO. EXISTING CEILING FINISHES AS REQUIRED FOR INSTALLATION OF NEW ELEVATED WALKWAY STRUCTURAL SUPPORT, & NEW ATTIC ACCESS HATCHES.





1239 120TH AVE. N.E., STE. D BELLEVUE, WA 98005 (425) 556-1220





OWNER...



U \mathcal{T} thorit -# ME 00 31d 1 $A\iota$ 2 Improvements Housing \triangleleft J. county Exterior King R + PHASE ... **Bid Set** + JOB NO...

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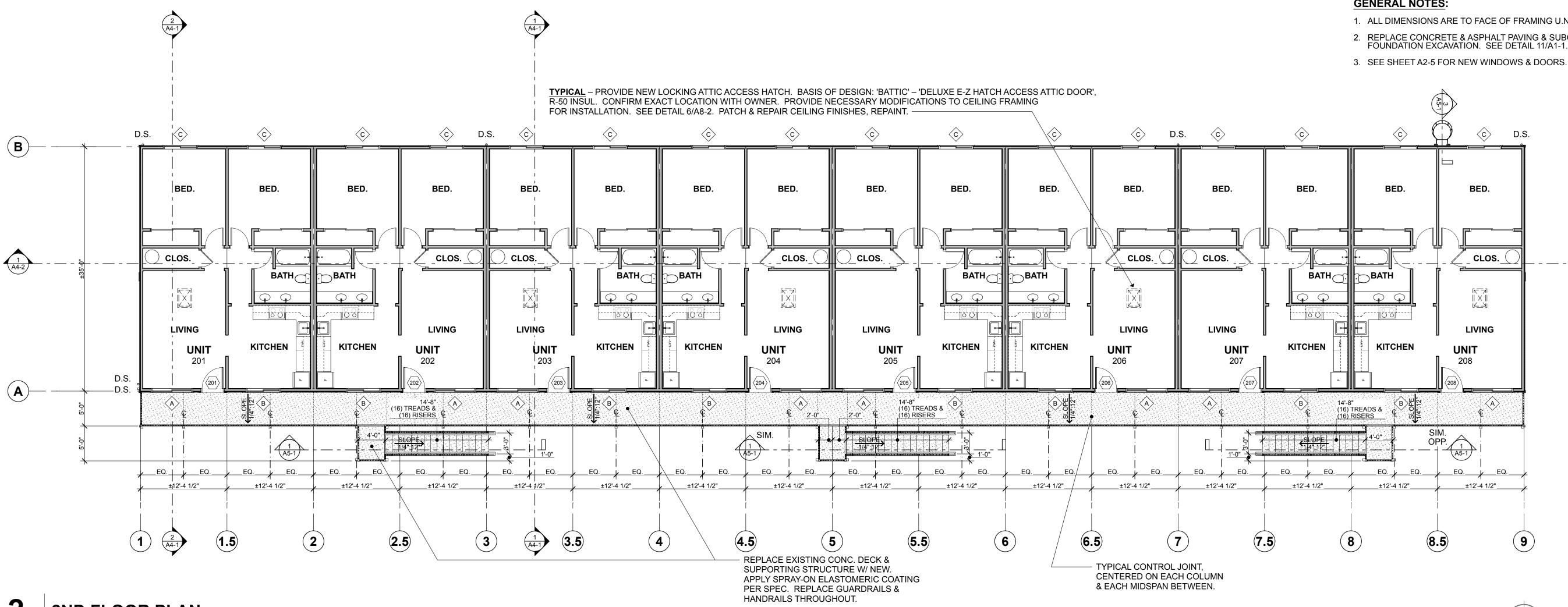
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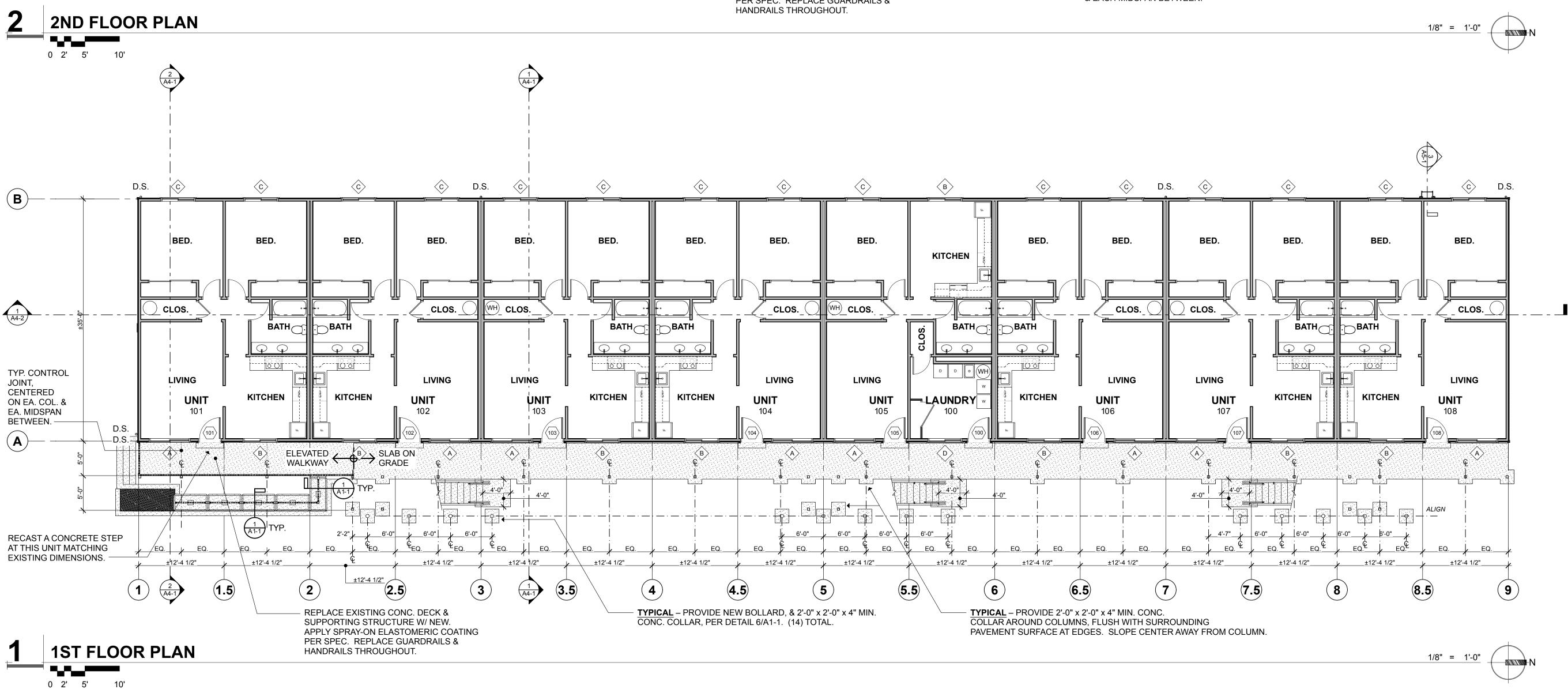
1/17/22

SHEET TITLE ...

Demolition Plan

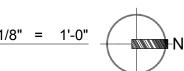






GENERAL NOTES:

- 1. ALL DIMENSIONS ARE TO FACE OF FRAMING U.N.O.
- 2. REPLACE CONCRETE & ASPHALT PAVING & SUBGRADE WHERE REMOVED FOR FOUNDATION EXCAVATION. SEE DETAIL 11/A1-1.





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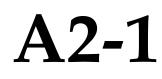
1239 120TH AVE. N.E., STE. D BELLEVUE, WA 98005 (425) 556-1220 SIGNATURE ... 4565 REGISTER ABCHITEC っけ FRANK E. LAWHEAD STATE OF WASHINGTON +----OWNER... King County Ħ Authority **U** thority # -**ME** 00 314 ~ 1 \checkmark Housing \checkmark пэтел

LAWHEAD

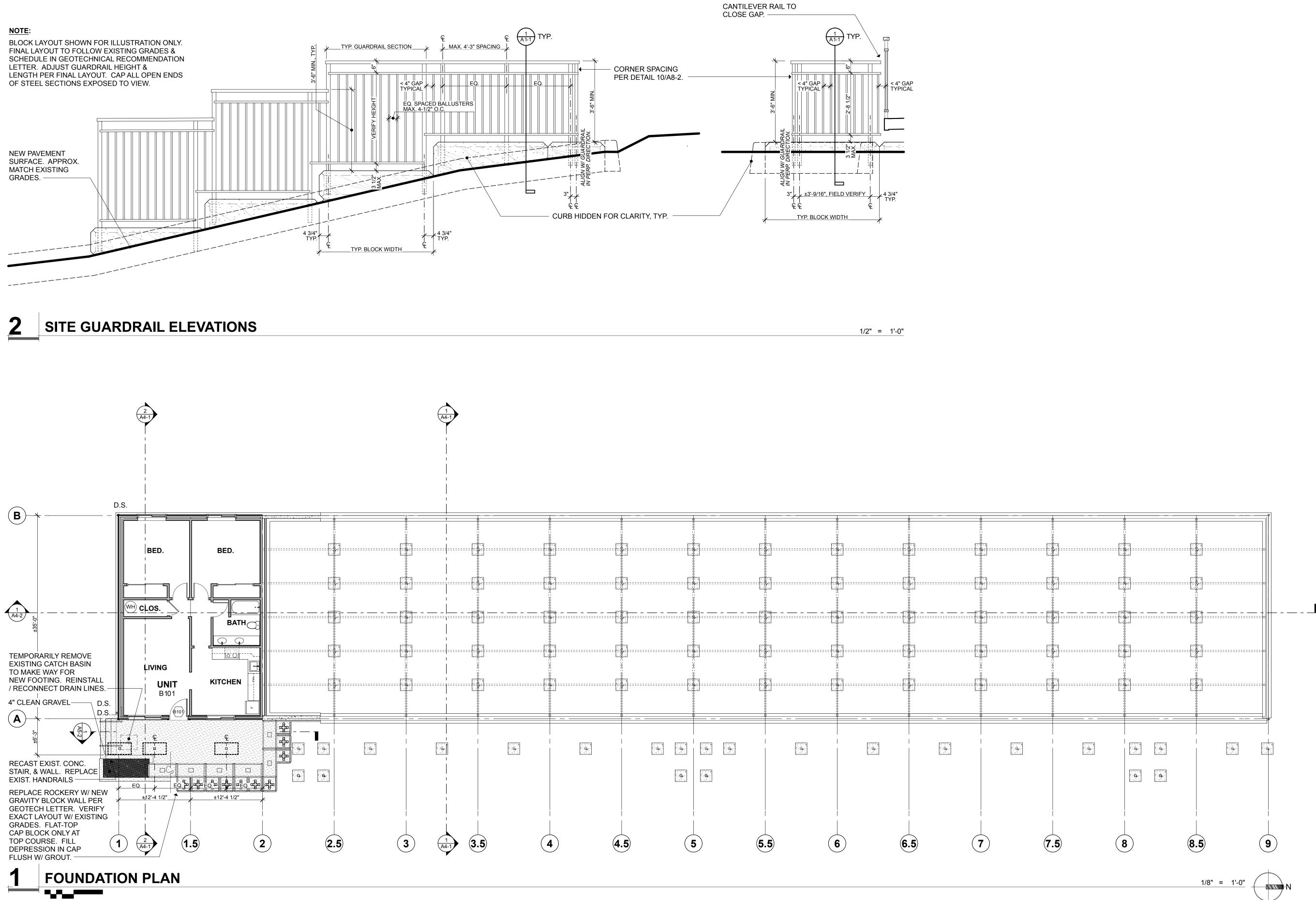
ARCHITECTS P.S.

mprove nty \mathcal{H} Õ Exterior \bigcirc 50 Kin R _____ +---PHASE ... **Bid Set** +---JOB NO... 20-06 +---DATE... 1/17/22 + SHEET TITLE ...

Floor Plan



EAST ELEVATION

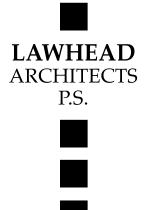


0 2' 5' 10'

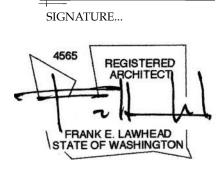
NORTH ELEVATION

GENERAL NOTES:

- 1. ALL DIMENSIONS ARE TO FACE OF FRAMING U.N.O.
- REPLACE CONCRETE & ASPHALT PAVING & SUBGRADE WHERE REMOVED FOR FOUNDATION EXCAVATION. MATCH EXISTING PAVEMENT MATERIAL & DEPTH.
- 3. SEE SHEET A2-5 FOR NEW WINDOWS & DOORS.













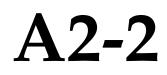
JOB NO... 20-06

+---DATE...

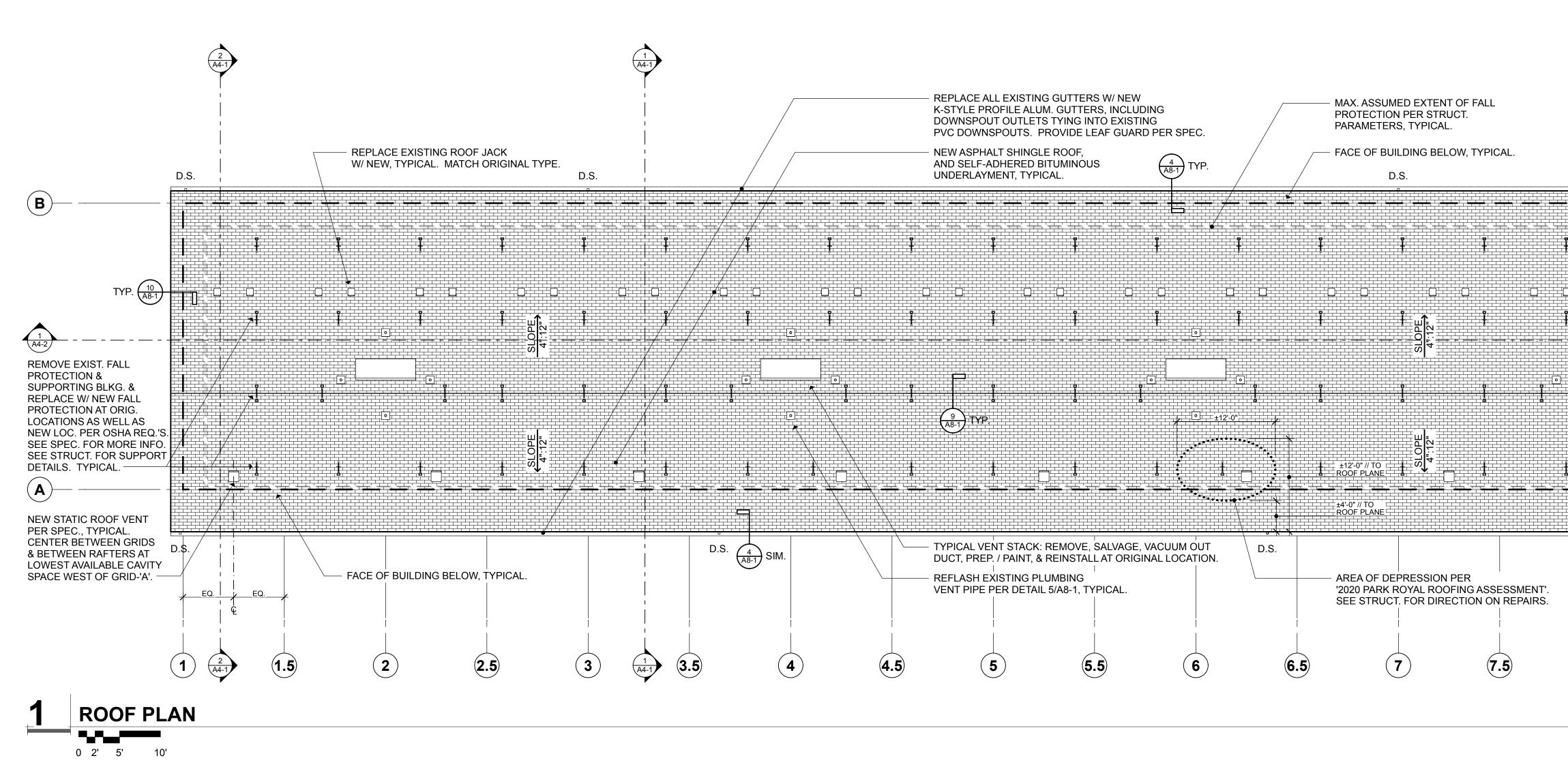
1/17/22

+ SHEET TITLE ... Floor Plan, & Fdn. Plan

+---SHEET NO...



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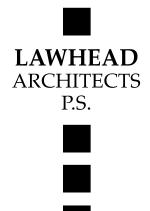
ROOF LEGEND

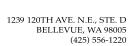
ASPHALT SHINGLE ROOF

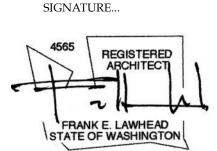
PROTECTIVE WALK-SURFACE

GENERAL NOTES:

- 1. ALL DIMENSIONS ARE TO FACE OF FRAMING U.N.O.
- 2. PROVIDE NEW BIDDER-DESIGNED FALL PROTECTION SYSTEM. BASIS-OF-DESIGN: 'GUARDIAN' - 'RIDGE-IT' STRAP TYPE ANCHORS. LOCATIONS SHOWN ARE DIAGRAMMATIC IN NATURE AND ARE PROVIDED EXCLUSIVELY FOR BIDDER TAKEOFF AND ESTABLISHING UNIT COST. ACTUAL NUMBER, SPACING, AND LOCATIONS OF FALL PROTECTION TO BE DETERMINED AS PART OF BIDDER-DESIGNED FALL PROTECTION LAYOUT MEETING OSHA & OTHER STATE ADMINISTRATIVE CODE SAFETY STANDARD REQUIREMENTS. SEE SPEC. FOR ADDITIONAL INFORMATION. SEE STRUCTURAL FOR SUPPORT DETAILS AT ANCHORS AND ADDITIONAL PARAMETERS RELATED TO SPACING AND LOCATIONS. REMOVE AND REPLACE EXISTING PLYWOOD ROOF SHEATHING IN ORDER TO ACCESS & INSTALL NEW SUPPORTS.



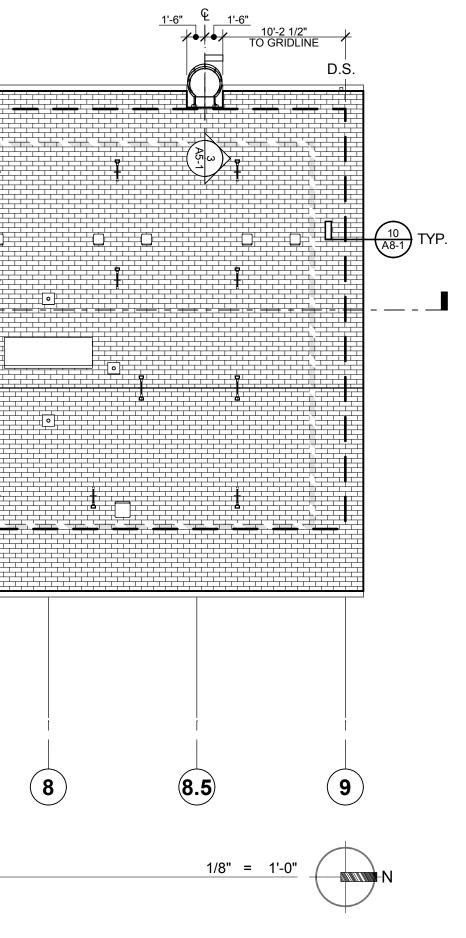




|--- OWNER...







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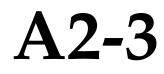
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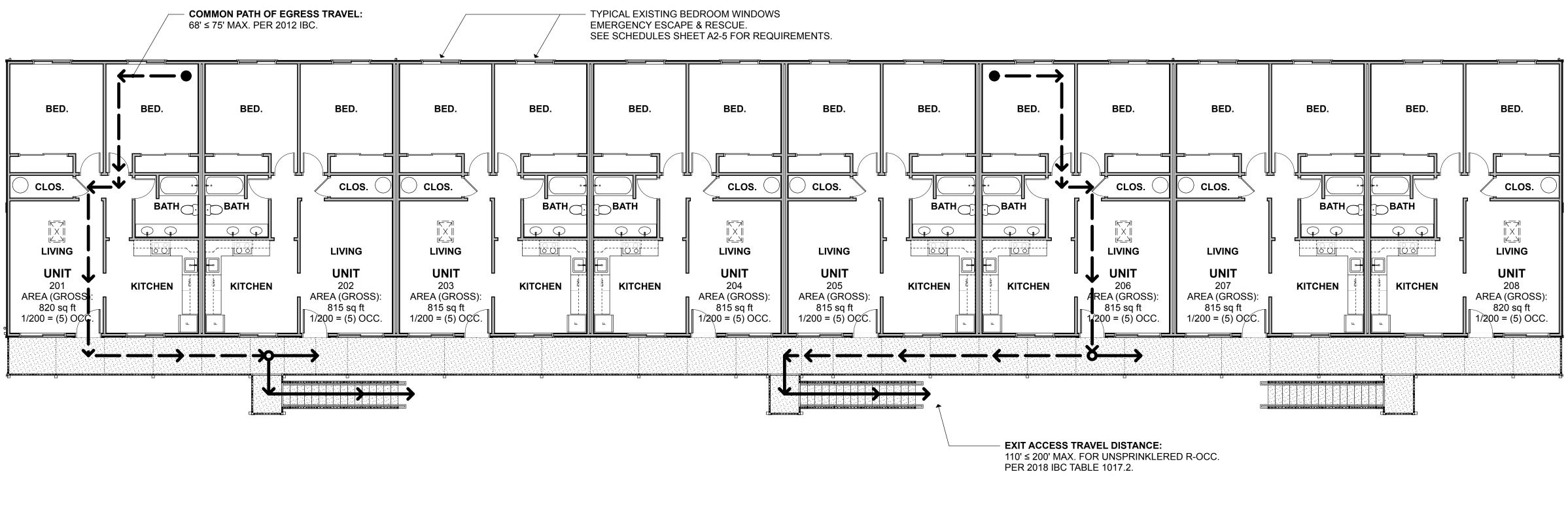
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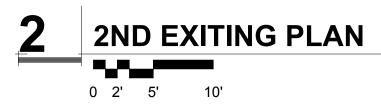
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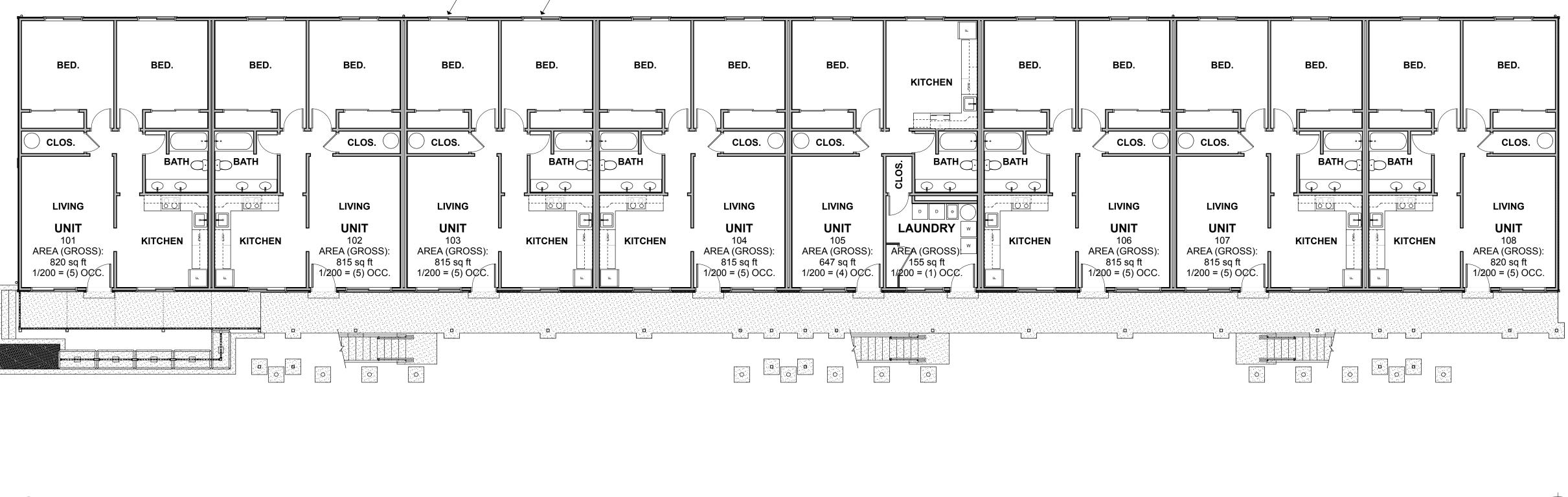
SHEET TITLE...

Roof Plan











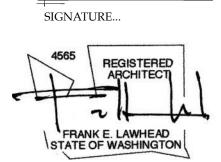
TYPICAL EXISTING BEDROOM WINDOWS EMERGENCY ESCAPE & RESCUE. SEE SCHEDULES SHEET A2-5 FOR REQUIREMENTS.

CODE INFORMATION:

OCCUPANT LOAD (IBC 1004): - 2ND STORY = (40) OCC.'S

- 1ST STORY = (5) OCC.'S PER UNIT + (1) OCC. IN LAUNDRY, EACH WITH INDEPENDENT MEANS OF EGRESS AT THE LEVEL OF EXIT DISCHARGE.

- BASEMENT (NOT PICTURED) = (5) OCC.'S WITH INDEPENDENT MEANS OF EGRESS AT THE LEVEL OF EXIT DISCHARGE.
- COMMON PATH OF TRAVEL (TABLE IBC 1006.2.1):
 - GROUP R-2 OCCUPANCY = NOT LISTED FOR UNSPRINKLERED BUILDING IN 2018 IBC. PREVIOUSLY 75-FEET MAX. IN 2012 IBC FOR UNSPRINKLERED BUILDINGS WITH AN OCCUPANT LOAD ≤ (30) OCC.'S. REFERENCE BMC 20.10.040 FOR APPLICATION OF SPRINKLER **REQUIREMENTS TO EXISTING BUILDINGS.**
- EXIT ACCESS TRAVEL DISTANCE LIMITATIONS (IBC TABLE 1017.2): R OCCUPANCY GROUP = 200' MAX. WITHOUT AUTOMATIC SPRINKLER SYSTEM
- 1239 120TH AVE. N.E., STE. D BELLEVUE, WA 98005 (425) 556-1220



LAWHEAD

ARCHITECTS

P.S.





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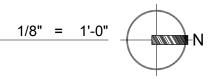
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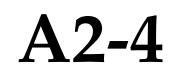


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$A\iota$ R Housing Improvements L L Ľ County Exterior 2 \bigcirc King RK +---PHASE ... **Bid Set** +---JOB NO... 20-06 +---DATE... 1/17/22 +---SHEET TITLE ...

Exiting Plan

+---SHEET NO...



DOOR SCHEDULE

		DOOR		FRAME		DETAILS	
NO.	WIDTH x HT.	TYPE	MAT./FIN.	MAT./FIN.	HEAD	JAMB	THRESH.
B101	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
100	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
101	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
102	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
103	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
104	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
105	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
106	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
107	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
108	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
201	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
202	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
203	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
204	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
205	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
206	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
207	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2
208	3'-0" x 6'-8"	1	FRTC / PT	COMP / PT	4/A8-2	9/A8-2	14/A8-2

NOTES:

(1) ALL DOOR HARDWARE MUST MEET THE ICC / ANSI A117.1-2017 STANDARD. (2) OVERALL SYSTEM MAXIMUM ALLOWABLE U-VALUE OF U-0.30 PER THE *2018 WSEC R402.1.1.*

WINDOW / LOUVER SCHEDULE

					DETAILS	
NO.	SIZE	OPERATION	MAT./FIN.	HEAD	JAMB	SILL
Α	5'-11"x 4'-0"	OPERABLE	VINYL	3/A8-2	8/A8-2	13/A8-2
В	4'-11" x 4'-0"	OPERABLE	VINYL	3/A8-2	8/A8-2	13/A8-2
С	4'-11" x 3'-4"	OPERABLE	VINYL	3/A8-2	8/A8-2	13/A8-2
D	4'-11" x 4'-0"	OPERABLE	VINYL	3/A8-2	8/A8-2	13/A8-2

NOTES:

(1) FIELD VERIFY EXISTING ROUGH OPENING DIMENSIONS PRIOR TO PLACING ORDER. (2) WINDOWS SHALL BE NFRC CERTIFIED AND LABELED. OVERALL SYSTEM MAXIMUM ALLOWABLE U-VALUE OF U-0.30 PER THE 2018 WSEC R402.1.1, MAX. SHGC OF 0.38, & MIN. VT = 0.56. (3) PROVIDE VENTILATORS ALL WINDOWS, MIN. 4 SQ. IN. NET FREE VENTILATION AREA.

LEGEND:

1

COMP COM	POSITE	FRTC	FIBERGLASS-REINFORCED THERMOSET COMPOSITE	PT	PAINT
— TEMPERED S	AFETY GLASS				
		MIN. 5.7 S NET OPEN IN OPEN F	I AREA		
5'-11"				4'-11"	
<u>A</u>	<u>B</u>		C SILL HT. AS REQ.	D	
<u>1</u>					
DOOR / W	/INDOW TYPES	5		." = 1'-0"	

IARDWARE ⁽¹⁾	REMARKS
1	
2	
1	
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1	

REMARKS

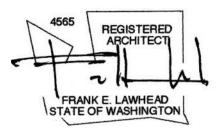
EMERGENCY ESCAPE WDW., MIN. 5.7 SQ. FT. NET OPEN AREA IN OPEN POSITION. 44" MAX. A.F.F. F.V. EXIST. DIM. & MODIFY SILL HT. AS REQ.

LAWHEAD ARCHITECTS P.S.



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+ SIGNATURE...



+---OWNER...



U uthority # -**AE** 00 Bld $A\iota$ Improvements Housing 5 Jounty 4 Exterior \bigcirc King R

PHASE...

RESERVED FOR CITY OF BOTHELL USE.

Bid Set

20-06

<u>+</u> ЈОВ NO...

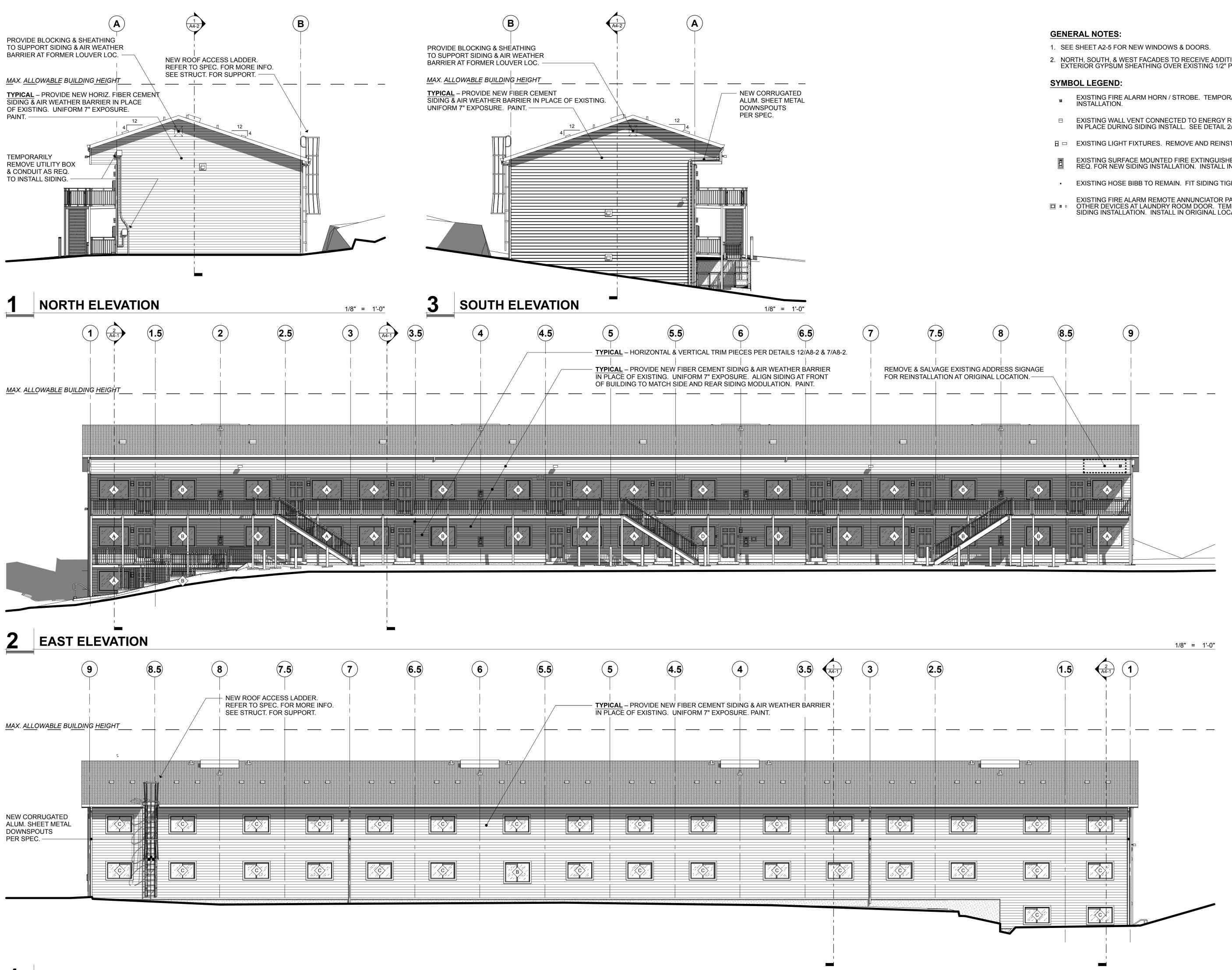
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1/17/22

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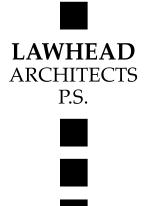
Schedules





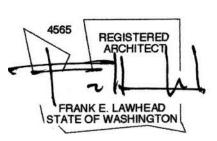
- 2. NORTH, SOUTH, & WEST FACADES TO RECEIVE ADDITIONAL LAYER OF 5/8" TYPE-X EXTERIOR GYPSUM SHEATHING OVER EXISTING 1/2" PLYWOOD SHEATHING.

- EXISTING FIRE ALARM HORN / STROBE. TEMPORARILY REMOVE AS REQ. FOR NEW SIDING INSTALLATION.
- EXISTING WALL VENT CONNECTED TO ENERGY RECOVERY VENTILATOR (ERV). TO REMAIN IN PLACE DURING SIDING INSTALL. SEE DETAIL 2/A8-2 FOR SIDING BLOCKOUT.
- ∃ □ EXISTING LIGHT FIXTURES. REMOVE AND REINSTALL AS REQ. FOR NEW SIDING INSTALL.
- EXISTING SURFACE MOUNTED FIRE EXTINGUISHER CABINETS. TEMPORARILY REMOVE AS REQ. FOR NEW SIDING INSTALLATION. INSTALL IN ORIGINAL LOCATIONS.
- EXISTING HOSE BIBB TO REMAIN. FIT SIDING TIGHTLY AROUND PIPE.
- EXISTING FIRE ALARM REMOTE ANNUNCIATOR PANEL IN CABINET, FIRE DEPT. 'KNOX-BOX', & OTHER DEVICES AT LAUNDRY ROOM DOOR. TEMPORARILY REMOVE AS REQ. FOR NEW SIDING INSTALLATION. INSTALL IN ORIGINAL LOCATION.









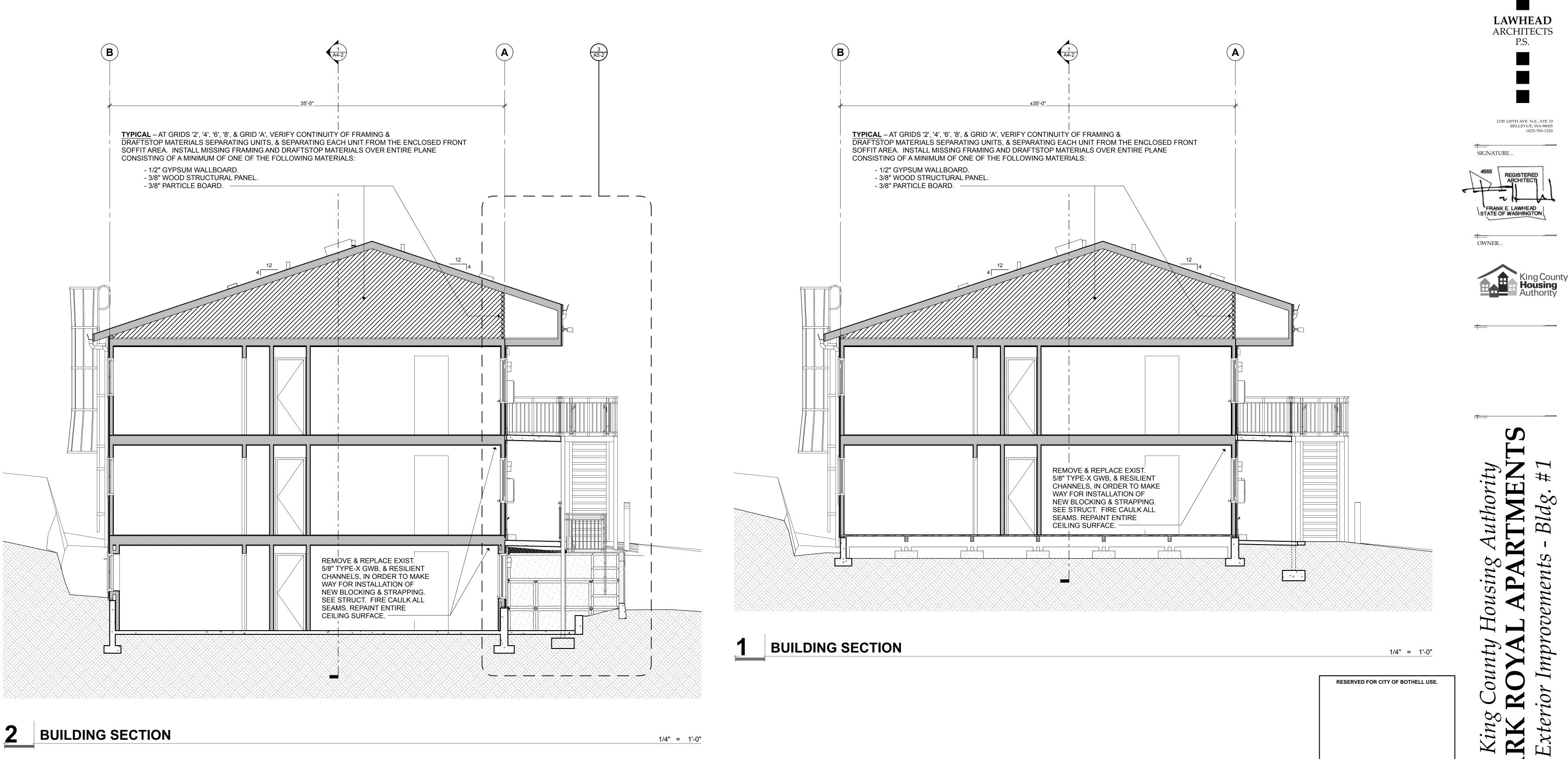
OWNER...



1/8" = 1'-0"

RESERVED FOR CITY OF BOTHELL USE.

2 # rit ТТ 00 thBld ~ \checkmark Housing трготетеп nty \mathcal{H} Ó Exterior M \bigcirc 50 King R +---PHASE ... **Bid Set** + JOB NO... 20-06 +---DATE... 1/17/22 + SHEET TITLE Elevations -SHEET NO... A3-1



2 BUILDING SECTION

1/4" = 1'-0"

+---PHASE ...

 \bigcirc

bC

King

M

RF

Bid Set

JOB NO... 20-06

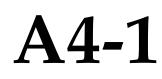
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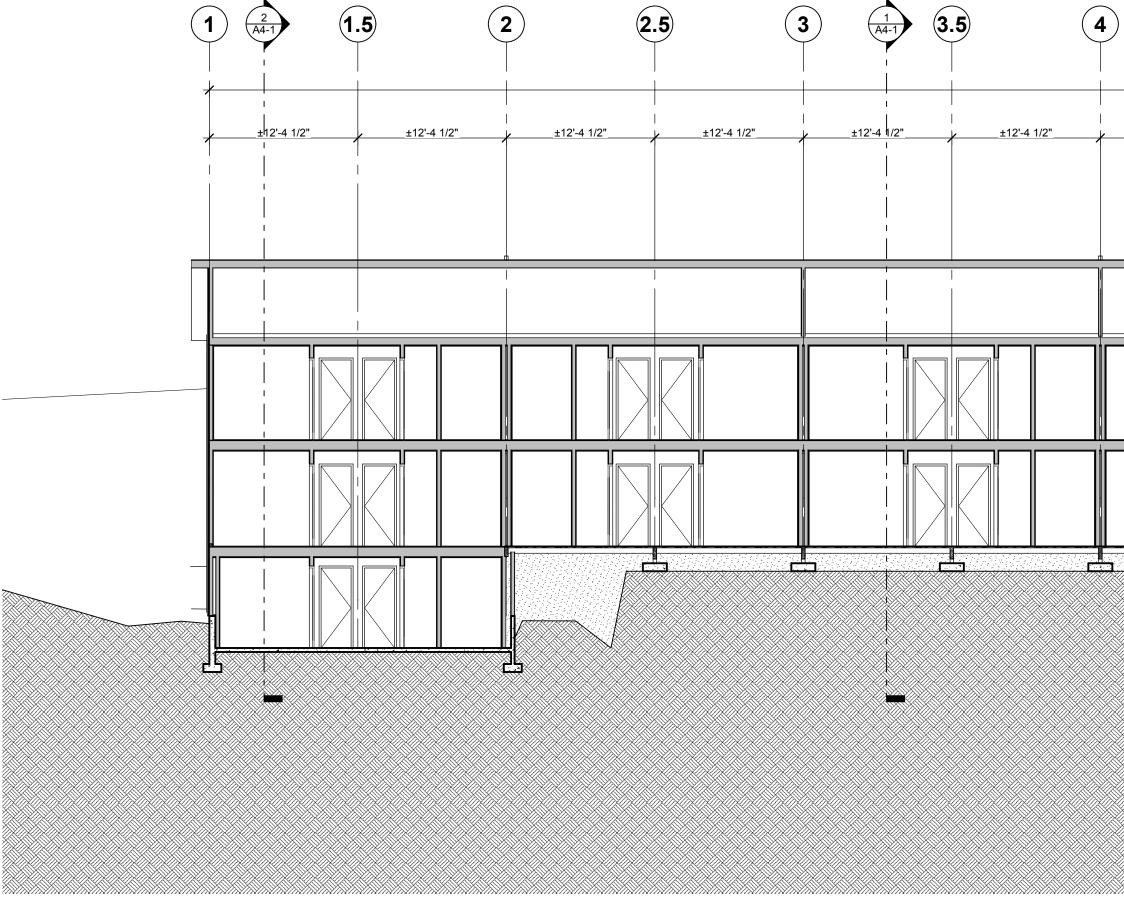
+---DATE...

1/17/22

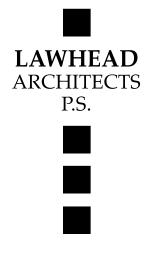
SHEET TITLE...

Building Sections

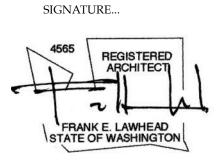




)	4.	5		6	.5	7	.5	8
±12'-4 1,	2"	,±12'-4 1/2",	±198'-0" ±12'-4 1/2" ±12'-4 1/2"	±12'-4 1/2"	±12'-4 1/2"	±12'-4 1/2"	±12'-4 1/2"	
1	.			<u>.</u>				



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OWNER...

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Bid Set

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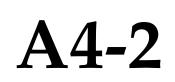
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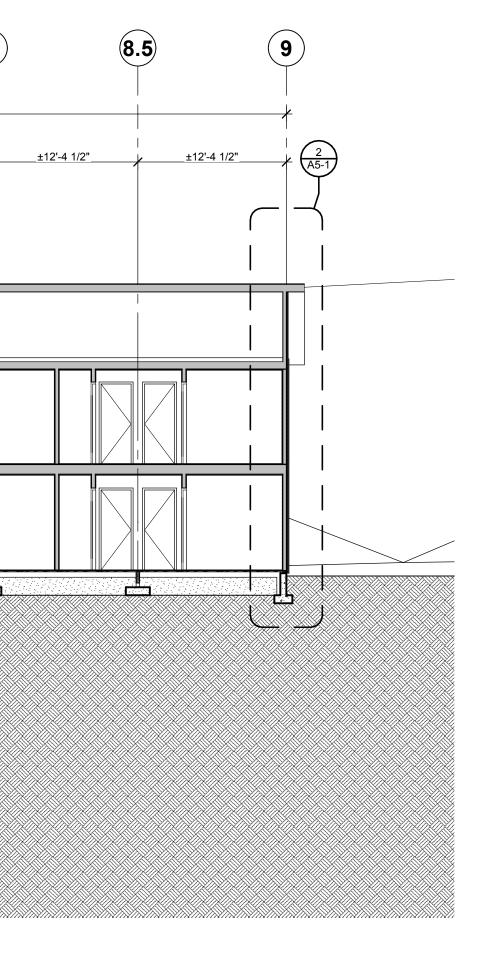
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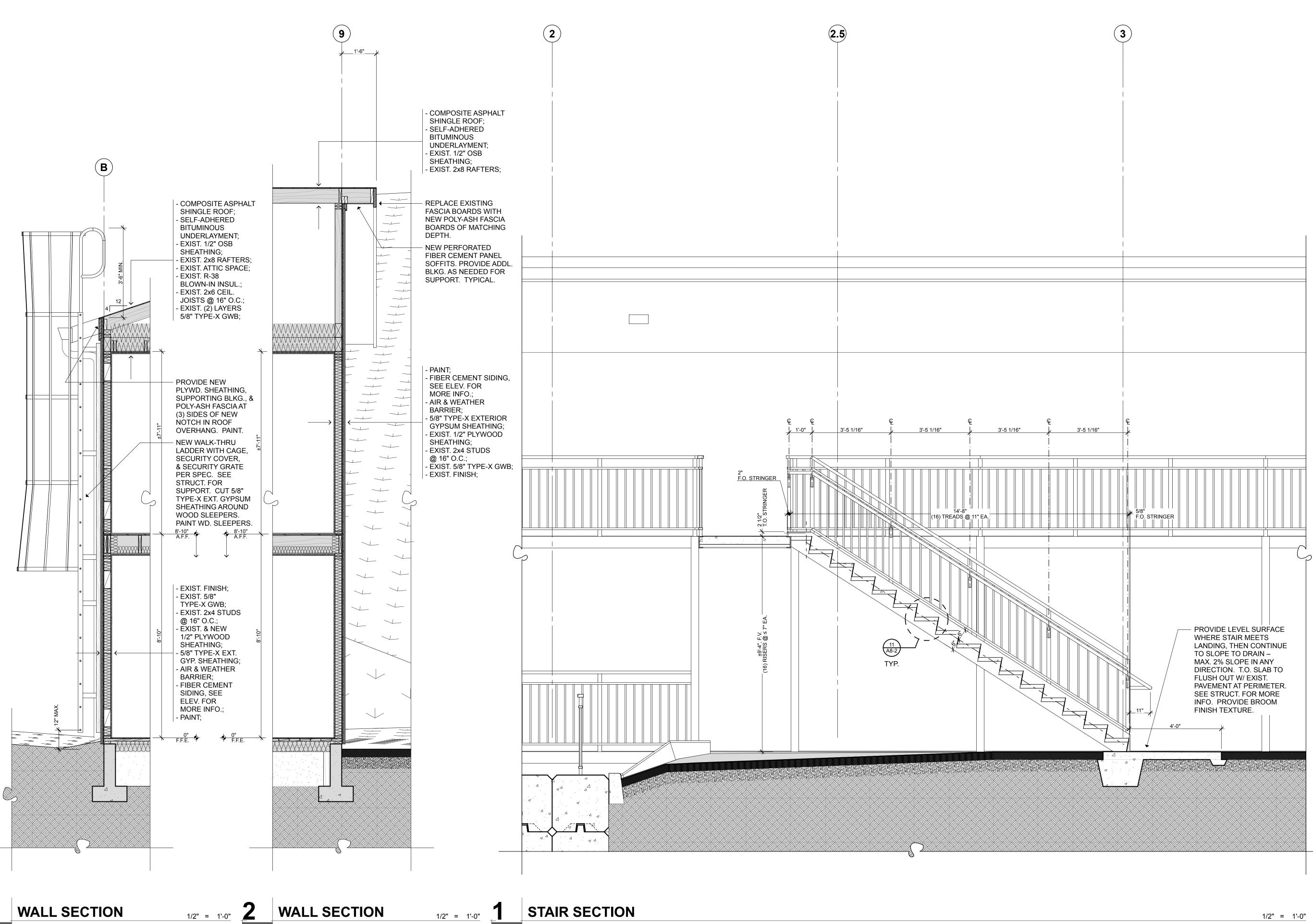
Building Sections

HEET NO...





1/8" = 1'-0"

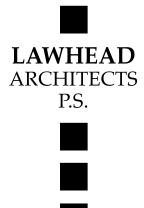


3 WALL SECTION

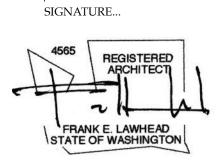
GENERAL NOTES:

 FIELD VERIFY ALL EXISTING MATERIALS, FINISHES, & DIMENSIONS. REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE. WHERE PATCHING & REPAIRING MATERIALS WITHIN EXISTING ASSEMBLIES TO REMAIN, PROVIDE EQUIVALENT MATERIALS TO ORIGINAL. FIRE-CAULKING AT ALL SEAMS WITHIN FIRE-RATED MEMBRANES.

- SHADED FILL INDICATES EXISTING CONSTRUCTION TO REMAIN.







+ OWNER...



J uthority # -**LE** 50 Bld \checkmark Jousing трготетен 2 nt \mathcal{H} Ó Exterior 2 \bigcirc 50 King R +---PHASE ... **Bid Set** +---JOB NO...

RESERVED FOR CITY OF BOTHELL USE.

20-06

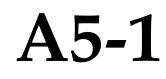
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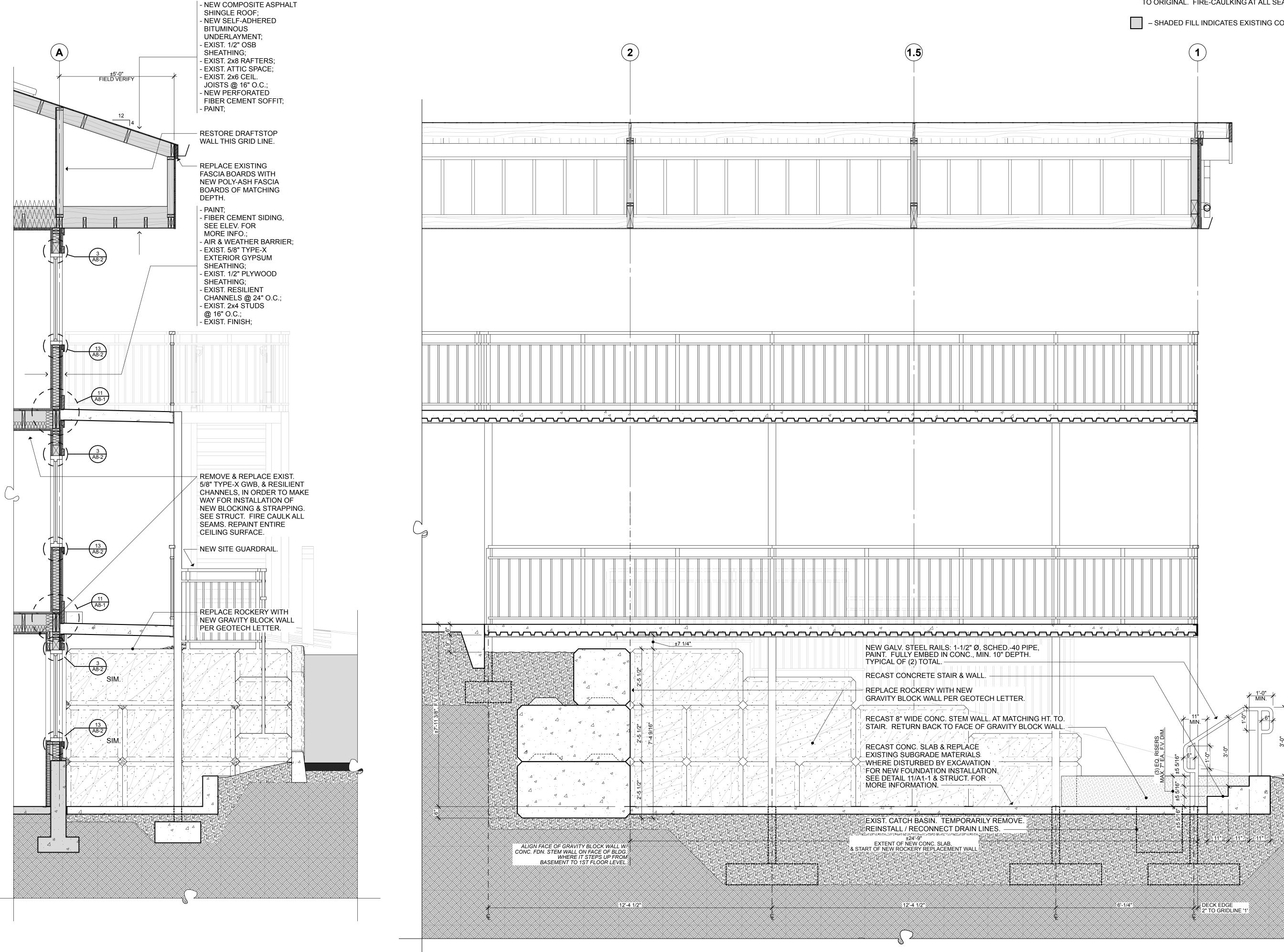
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+---SHEET TITLE ...

Wall Sections

+---SHEET NO...



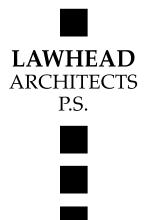


1/2" = 1'-0" **1** WALL SECTION



 FIELD VERIFY ALL EXISTING MATERIALS, FINISHES, & DIMENSIONS. REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE. WHERE PATCHING & REPAIRING MATERIALS WITHIN EXISTING ASSEMBLIES TO REMAIN, PROVIDE EQUIVALENT MATERIALS TO ORIGINAL. FIRE-CAULKING AT ALL SEAMS WITHIN FIRE-RATED MEMBRANES.

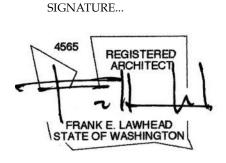
- SHADED FILL INDICATES EXISTING CONSTRUCTION TO REMAIN.



1/2" = 1'-0"

BELLEVUE, WA 98005 (425) 556-1220

1239 120TH AVE. N.E., STE. D



+ OWNER...



U 7 thority # -IE 50 31d 1 \checkmark 5 \mathcal{O} M 1 Ċ \mathcal{O} 3 0 d Ш 7 11 0 10 M 00 χte Kin Ш

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RESERVED FOR CITY OF BOTHELL USE.

Bid Set

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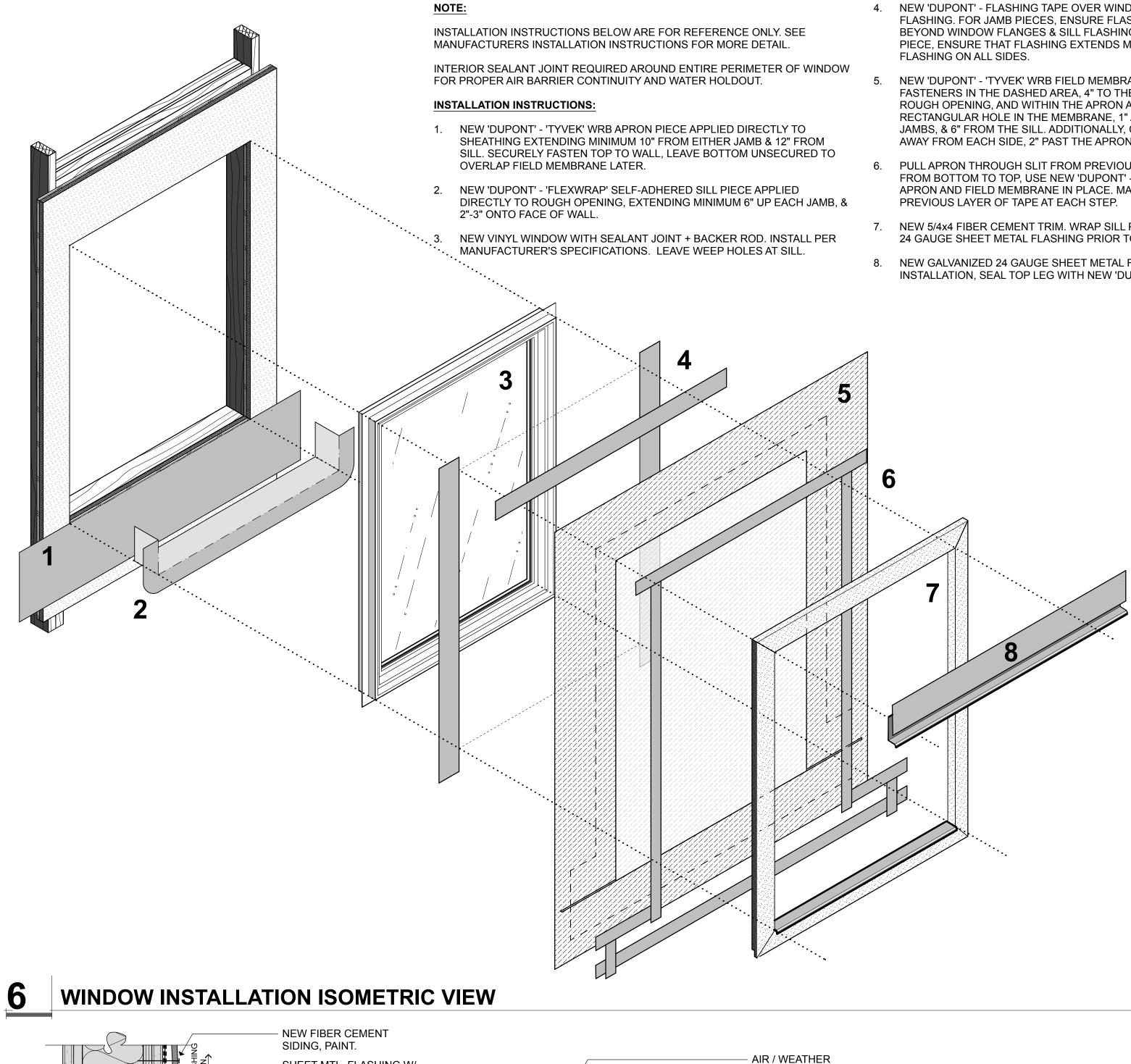
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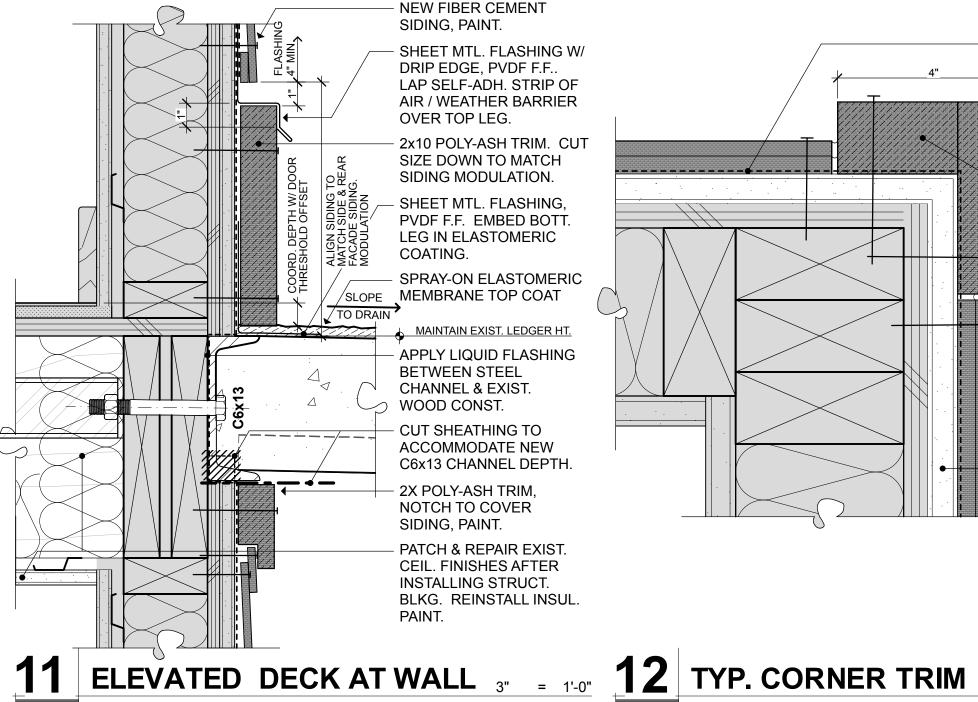
+ SHEET TITLE ...

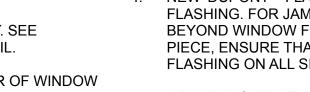
Wall Sections



- SHADED FILL INDICATES EXISTING CONSTRUCTION TO REMAIN.







FLASHING. FOR JAMB PIECES, ENSURE FLASHING EXTENDS MIN. 1" BEYOND WINDOW FLANGES & SILL FLASHING BOTTOM & SIDES. FOR HEAD PIECE, ENSURE THAT FLASHING EXTENDS MIN. 1" BEYOND JAMB

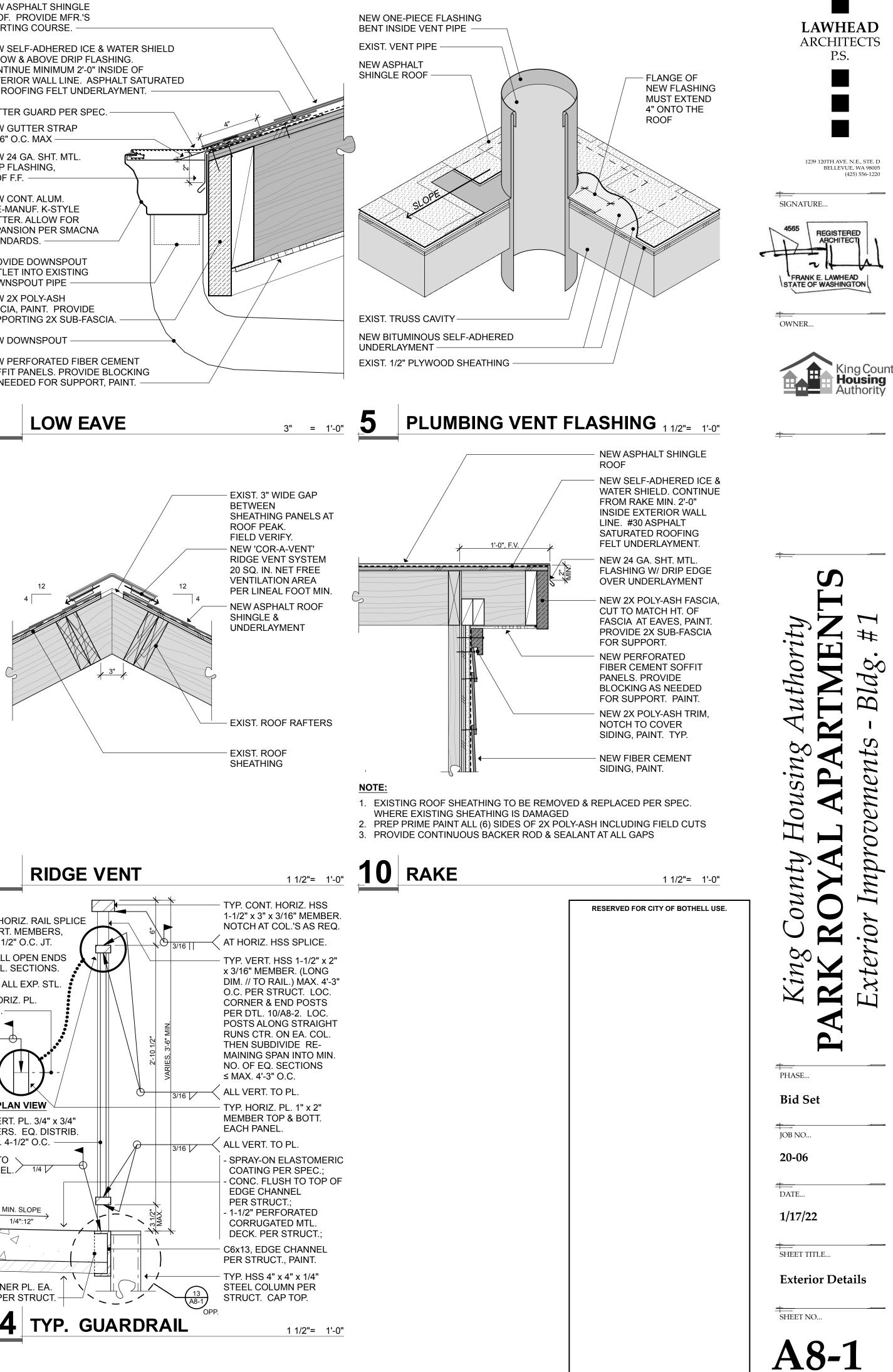
NEW 'DUPONT' - 'TYVEK' WRB FIELD MEMBRANE. DO NOT INSTALL FASTENERS IN THE DASHED AREA, 4" TO THE TOP AND SIDES OF THE ROUGH OPENING, AND WITHIN THE APRON AREA BELOW. CUT OUT A RECTANGULAR HOLE IN THE MEMBRANE, 1" AWAY FROM THE HEAD & JAMBS, & 6" FROM THE SILL. ADDITIONALLY, CUT A SLIT HORIZONTALLY AWAY FROM EACH SIDE, 2" PAST THE APRON UNDERNEATH.

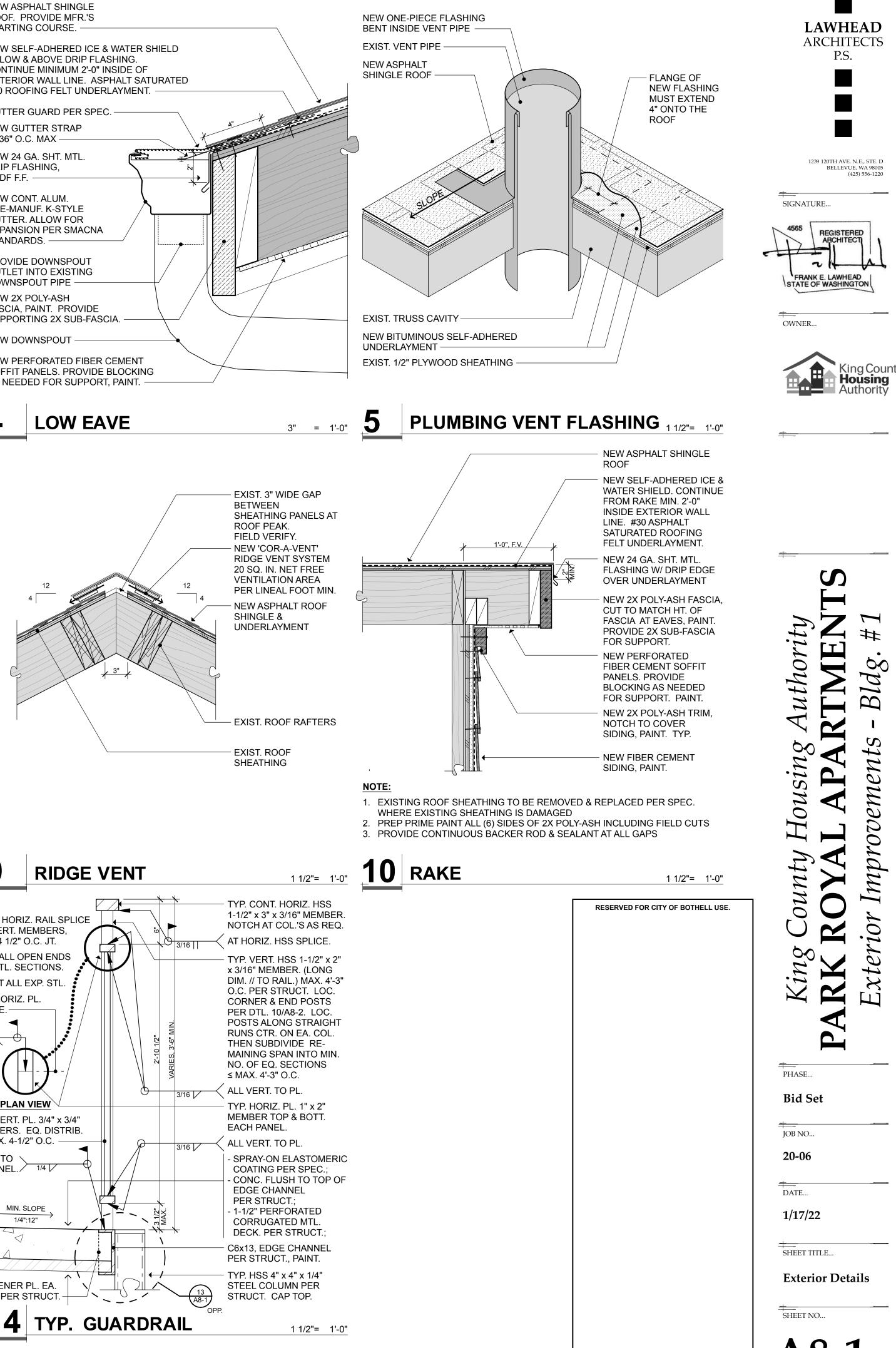
FROM BOTTOM TO TOP, USE NEW 'DUPONT' - 'TYVEK' TAPE TO SEAL THE APRON AND FIELD MEMBRANE IN PLACE. MAKE SURE TO OVERLAP THE

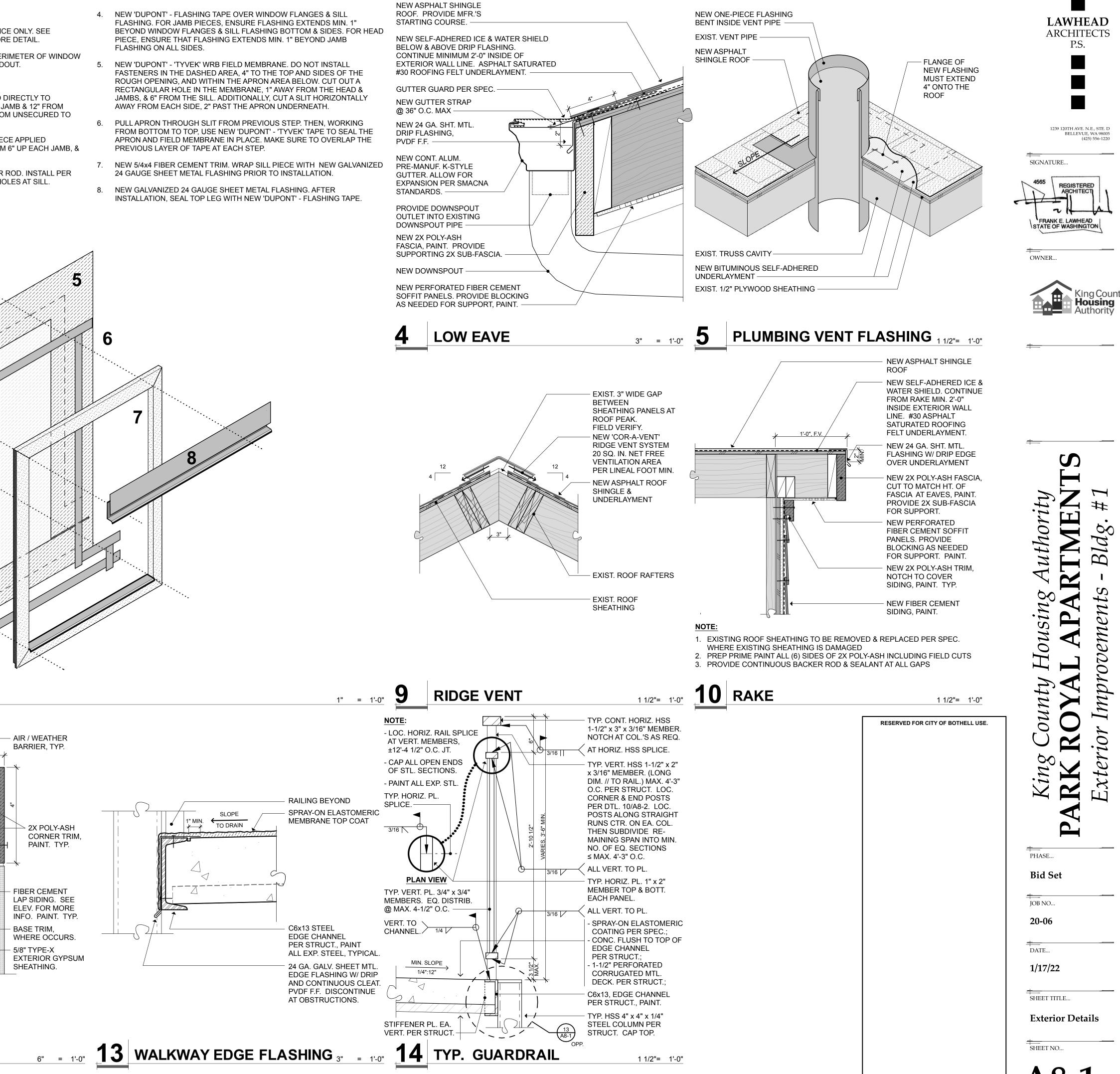
- 24 GAUGE SHEET METAL FLASHING PRIOR TO INSTALLATION.
- NEW GALVANIZED 24 GAUGE SHEET METAL FLASHING. AFTER

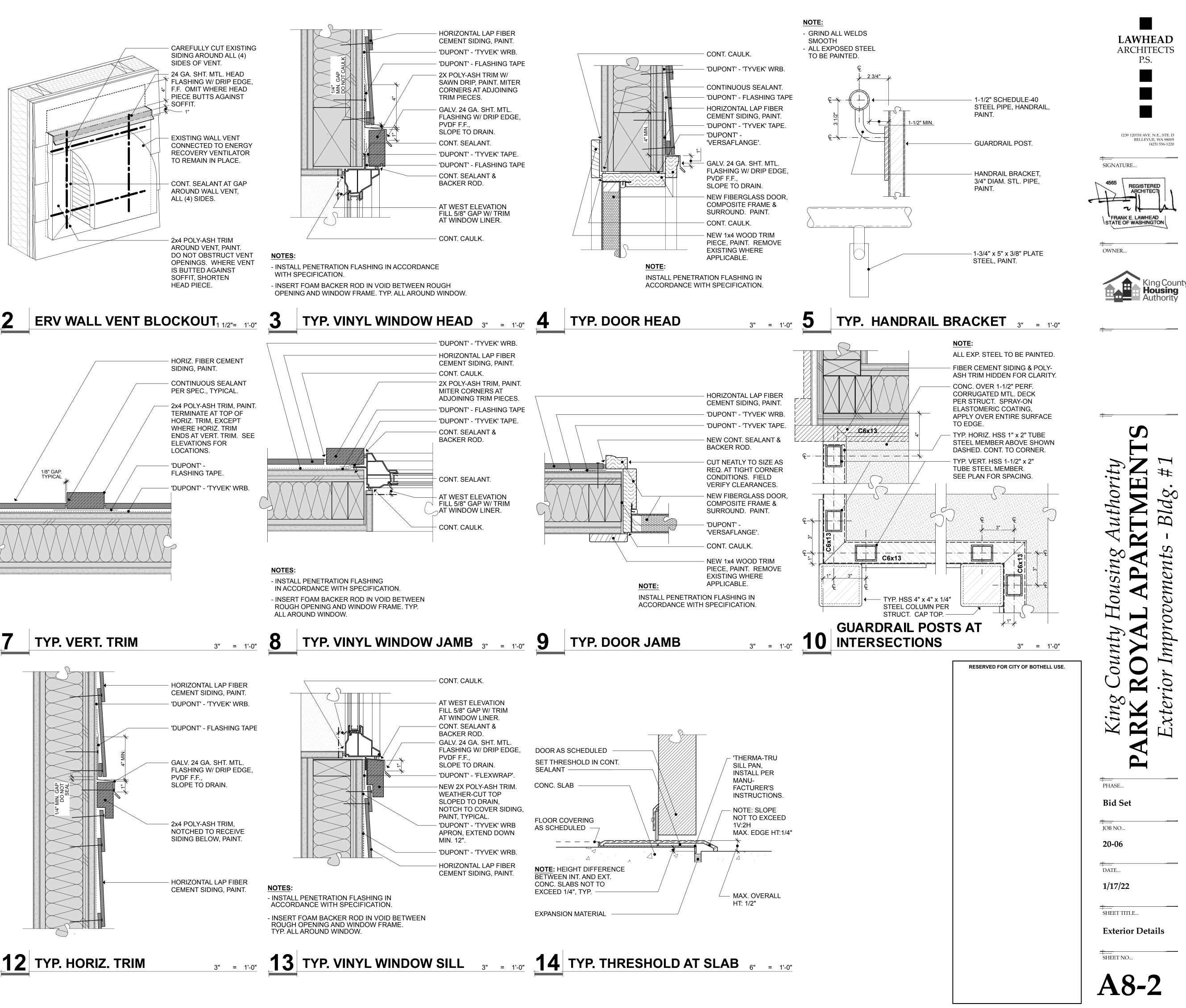
STARTING COURSE.

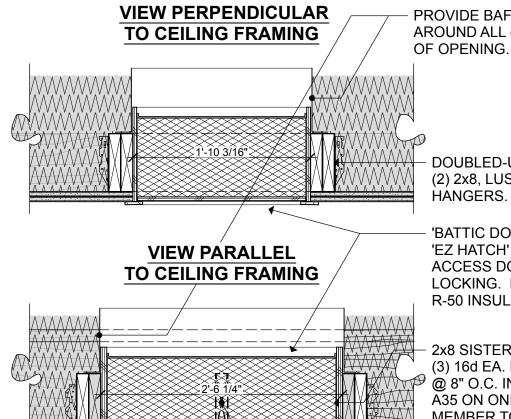








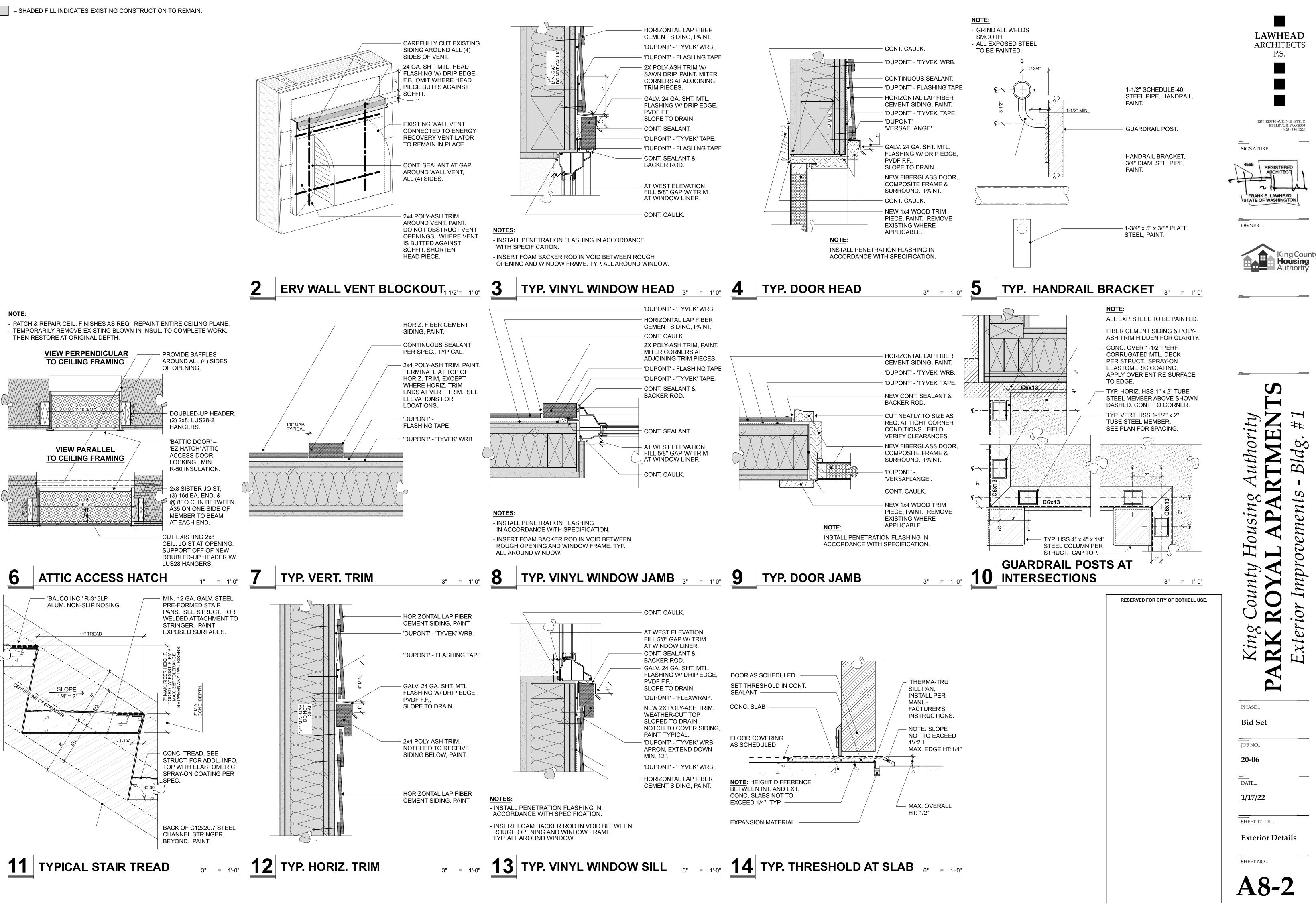




'EZ HATCH' ATTIC ACCESS DOOR. LOCKING. MIN. **R-50 INSULATION.**

- 2x8 SISTER JOIST, (3) 16d EA. END, & ⁹ @ 8" O.C. IN BETWEEN. A35 ON ONE SIDE OF MEMBER TO BEAM AT EACH END.

CUT EXISTING 2x8 CEIL. JOIST AT OPENING. SUPPORT OFF OF NEW



GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

<u>STANDARDS</u>

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

<u>STRUCTURAL DRAWINGS</u> SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD	PARTITION LOAD	CONCENTRATED LOADS
ROOF	15 PSF	25 PSF		300#
CORRIDORS (ABOVE 1ST FLR)	70 PSF	100 PSF		2,000#
CORRIDORS (1ST FLR)	70 PSF	100 PSF		2,000#
STAIRS	70 PSF	100 PSF		300#
LADDER	580 LB	600 LB		

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY SHEAR WALL ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH AND/OR SLIDING FRICTION. OVERTURNING IS RESISTED BY DEAD LOAD OF THE STRUCTURE.

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "ENCLOSED, PARTIALLY ENCLOSED, AND OPEN BUILDING OF ALL HEIGHTS PROCEDURE" PER ASCE 7-16.

- EXPOSURE CATEGORY = B

- BASIC WIND SPEED, (3 SEC. GUST), VULT = 110 MPH; VASD = 85 MPH

- RISK CATEGORY PER IBC TABLE 1604.5 = II

- TOPOGRAPHIC FACTOR K_{ZT} = 1.0

- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18 - COMPONENTS AND CLADDING LOADS, SEE THE FOLLOWING TABLES:

ROOF SURFACES 1								
	POSITIVE PRESSURES		Ν	EGATIVE PRE	ESSURES (PSI	=)		
EFFECTIVE WIND AREA	(PSF)		ZONE ³					
	ALL ZONES	1	2e	2n	2r	3e	3r	
10 SF	16.0	-40.2	-40.2	-58.6	-58.6	-58.6	-69.7	
20 SF	16.0	-40.2	-40.2	-50.7	-50.7	-50.7	-59.7	
50 SF	16.0	-24.4	-24.4	-40.2	-40.2	-40.2	-46.5	
100 SF	16.0	-16.0	-16.0	-32.2	-32.2	-32.2	-36.5	

WALL SURFACES AND ROOF OVERHANGS ¹						
	POSITIVE PRE	ESSURE (PSF)	NEGATIVE PRESSURE (PSF)			
EFFECTIVE WIND AREA		ZOM	NE ²			
,	4	5	4	5		
10 SF	21.7	21.7	-23.6	-29.1		
20 SF	20.8	20.8	-22.6	-27.2		
50 SF	19.5	19.5	-21.3	-24.6		
100 SF	18.5	18.5	-20.3	-22.6		
500 SF	16.2	16.2	-18.1	-18.1		

ROOF OVERHANGS ¹						
			NEGATIVE PR	ESSURE (PSF)		
EFFECTIVE WIND AREA			ZON	NE ³		
	1	2e	2n	2r	3e ¹	3r
10 SF	-49.4	-49.4	-67.8	-67.8	-78.9	-89.9
20 SF	-49.4	-49.4	-61.9	-61.9	-68.6	-76.6
50 SF	-38.9	-38.9	-54.0	-54.0	-54.9	-59.0
100 SF	-31.0	-31.0	-48.0	-48.0	-44.6	-45.7
500 SF	-31.0	-31.0	-40.2	-40.2	-31.0	-45.7

<u>SEISMIC:</u> (ASCE 7-16) V = $0.4S_{DS}I_Ew_p$

SPECTRAL RESPONSE ACCELERATIONS Ss = 1.275 & S1 = 0.448 SITE CLASS PER TABLE 20.3-1 = D SEISMIC DESIGN CATEGORY = D

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

FOUNDATION DESIGN CRITERIA

SOIL BEARING PRESSURE: 1500 PSF (ASSUMED)*

PASSIVE RESISTANCE: 200 PCF (INCLUDES F.O.S. ≥ 1.5) (ASSUMED) COEFFICIENT OF FRICTION: .35 (INCLUDES F.O.S. ≥ 1.5) (ASSUMED) *1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (f'c= 2000 PSI) OR "STRUCTURAL BACKFILL". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 4". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

CONCRETE

CAST-IN-PLACE CONCRETE

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS. WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES. AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT, UNLESS NOTED OTHERWISE.

SLAG: GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318. CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

AMOUNT.

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLYASH AND SLAG. AT THE CONTRACTORS OPTION FLYASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLYASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE. FOOTING MIXES SHALL CONTAIN NOT LESS THAN **5 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, ALL OTHER MIXES SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.

1. VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES.

2. WALL ZONES ARE AS DEFINED BY FIGURE 30.3-1 FOR ASCE 7-16 IN LOW RISE BUILDINGS.

3. ROOF ZONES ARE AS DEFINED BY FIGURES 30.3-2 THROUGH 30.3-7 IN ASCE 7-16 FOR LOW RISE BUILDINGS.

SEISMIC IMPORTANCE FACTOR, Ie = 1.0

RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 = II

DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 1.02 & S_{D1} = 0.538

RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1, R = 6.5

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F. MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

WATER: SHALL BE CLEAN AND POTABLE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED

ITEM	DESIGN f'c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO
SLAB ON GRADE	5000	0.40	100	57 OR 67
FOUNDATIONS	3000	0.50		57 OR 67
CONTROLLED DENSITY FILL (CDF)	200			SAND
ALL OTHER CONCRETE	4000	0.50		57 OR 67

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED

BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

FLOATING & FINISHING OPERATIONS

WATER SHALL NOT BE ADDED TO THE CONCRETE SURFACE DURING FLOATING & FINISHING OPERATIONS. PRE-APPROVED EVAPORATION RETARDER SPECIFICALLY DESIGNED FOR FLOATING & FINISHING OPERATIONS ARE ACCEPTABLE.

FORMED SURFACES:

FORMWORK CLASS OF SURFAC

ALL SURFACES EXPOSED TO PUBLIC VIEW, U.N.O.

ALL SURFACES RECEIVING A COURSE TEXTURED COATING STUCCO, UNLESS NOTED OTHERWISE

ALL OTHER SURFACES, UNLESS NOTED OTHERWISE

CONTROL AND CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. SPECIAL BONDING METHODS PER SECTION 5.3.2.6 SHALL BE SATISFIED BY ITEM 4 BELOW UNLESS OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN ON PLAN OR ADDITIONAL CONSTRUCTION JOINTS ARE REQUIRED SUBMIT PROPOSED JOINTING FOR STRUCTURAL ENGINEERS APPROVAL PROVIDE CONSTRUCTION JOINTS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS.

- 1. SLAB ON METAL DECK: PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AT 12'-4-1/2" O.C. MAXIMUM FOR EXPOSED SLAB AND ALIGN WITH COLUMNS.
- 2. ATTACHMENT OF NEW CONCRETE TO EXISTING: WHERE SHOWN, ROUGHEN CONCRETE TO A MINIMUM AMPLITUDE OF 1/4" USING IMPACT HAMMER. REMOVE ALL LOOSE OR DAMAGED CONCRETE. THOROUGHLY FLUSH ALL SURFACES WITH POTABLE WATER, AIR BLAST WITH OIL FREE COMPRESSED AIR TO REMOVE ALL WATER.

EMBEDDED ITEMS

- 1. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.
- 2. ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.
- 3. ALL EMBEDDED STEEL ITEMS EXPOSED TO EARTH SHALL BE GALVANIZED.
- 4. ALL EMBEDDED STEEL ITEMS EXPOSED TO WEATHER SHALL BE PAINTED UNLESS NOTED AS GALVANIZED. SEE DRAWINGS AND SPECIFICATIONS FOR PAINT, PRIMER, AND GALVANIZING REQUIREMENTS.

	STRUCTURAL DRAWING
SHEET NUMBER	SHEET DES
S0-1	GENERAL NOTES
S0-2	GENERAL NOTES
S0-3	GENERAL NOTES
S2-1	LEVEL 1 AND 2 FLOOR FRA
S2-2	LEVEL 1 FOUNDATION AND
S3-1	STRUCTURAL DETAILS
S3-2	STRUCTURAL DETAILS
S3-3	STRUCTURAL DETAILS
Grand total: 8	

CE PER ACI 347 TABLE 3.	1
	CLASS OF FINISH
	A
SUCH AS PLASTER OR	В
	С

INDEX SCRIPTION

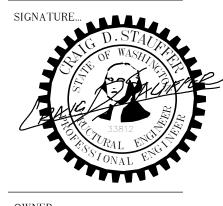
AMING PLANS D ROOF FRAMING PLANS





BELLEVUE, WA 9800

(425) 556-1220







RESERVED FOR CITY OF BOTHELL USE.



PHASE ...

BID SET

JOB NO...

20-06

DATE...

01-17-22

GENERAL NOTES

SHEET NO ...

S0-

SHEET TITLE ...

CONCRETE (CONTINUED) CONCRETE CURING AND SEALING

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. SLABS ARE DEFINED AS SLABS ON GRADE, CONCRETE ON METAL DECK, ELEVATED POST-TENSIONED OR MILD REINFORCED DECKS, AND TOPPING SLABS.

ITEM	CONCRETE CURING NOTES
SLABS	1, (2 OR 3 OR 4), 5

CONCRETE CURING NOTES:

- WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.
- PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
- APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS OR ASTM C1315 TYPE 1 CLASS A SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER FINAL FINISHING. CURING COMPOUND SHALL BE COMPATIBLE ARCHITECTURAL FLOOR COVERINGS AND SEALERS. WITH
- 4. PROVIDE 'ULTRACURE MAX' MOISTURE RETAINING COVER BY MCTECH GROUP, OR APPROVED EQUAL, FOR A MINIMUM OF 14 DAYS.
- APPLY A SILANE SEALER WITH MINIMUM SOLIDS CONTENT OF 40% PER MANUFACTURER'S RECOMMENDATIONS.

<u>GROUT</u>

NON-SHRINK GROUT: MASTER BUILDERS "MASTERFLOW 928" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING.

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

ASTM A706 GRADE 60 FOR ALL WELDED BARS.

DETAIL FABRICATE AND PLACE PER ACI 315 AND ACI 318.

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS: SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH REBAR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. INSTALLER SHALL BE QUALIFIED AND TRAINED BY THE MANUFACTURER. HOLES SHALL BE HAMMER DRILLED ONLY (ROTARY DRILLED ONLY AT UNREINFORCED MASONRY - NO HAMMER TOOLS)

SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO BID, ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER (LICENSED IN THE STATE IN WHICH THE PROJECT OCCURS) DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

CONCRETE ANCHORS:

- ADHESIVE ANCHORS: HILTI HIT-HY 200 (ICC-ESR-3187), HILTI HIT-RE 500 V3 (ICC-ESR-3814), DEWALT PURE 110+ (ICC-ESR-3298) OR SIMPSON SET-3G (ICC-ESR-4057) OR PRE-APPROVED EQUAL.

- *CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT TIME OF INSTALLATION.
- *CONCRETE SHALL BE IN THE TEMPERATURE RANGE AS REQUIRED BY THE CONCRETE MANUFACTURER.
- *HOLE SHALL BY HAMMER-DRILLED ONLY.
- ***DO NOT INSTALL IN WATER-FILLED HOLES**
- *INSTALLER OF HORIZONTAL OR UPWARDLY INCLINED (ANY POSITION EXCEPT DIRECTLY DOWNWARD) ANCHORS SHALL ALSO BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
- EXPANSION ANCHORS: KWIKBOLT TZ (ICC ESR-1917) BY HILTI, INC., OR PRE-APPROVED EQUAL. - SCREW ANCHORS: KWIK HUS-EZ (ICC ESR-3027) BY HILTI, INC., OR PRE-APPROVED EQUAL.

Ē	REINFORCING SPLICE	AND DEVELOPMENT LE	ENGTH SCHEDULE, Fy=	60 KSI (UNLESS NOTED	OTHERWISE)
BAR	MINIMUM LAP SPLI	CE LENGTHS ("Ls")	MINIMUM DEVELOPI	MENT LENGTHS ("Ld")	MINIMUM EMBEDMENT LENGTH FOR
SIZE	TOP BARS (1)	OTHER BARS	TOP BARS (1)	OTHER BARS	STANDARD END HOOKS ("Ldh")
#3	2'-0"	1'-6"	1'-6"	1'-3"	0'-7"
#4	2'-8"	2'-0"	2'-0"	1'-7"	0'-9"
#5	3'-4"	2'-7"	2'-7"	2'-0"	1'-0"

SPLICE TABLE NOTES

1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ------ 3" EXPOSED TO WEATHER OR EARTH ------ 2"

STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDES AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES. REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER

MATERIAL PROPERTIES

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE - ASTM A500 GRADE C (Fy = 50 KSI) ROUND - ASTM A500 GRADE C (Fy = 46 KSI)

INDICATED.

WELDING

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS) SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE.

RATINGS AS FOLLOWS:

WE

FILLET PARTIAL PENET COMPLETE PEN

D1.1.

PER SECTION 9.1.

ADHESIVE ANCHOR RODS: ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE.

COMPOSITE FLOOR DECK: SHALL CONTAIN THE MINIMUM PROPERTIES SHOWN ON THE STRUCTURAL DRAWINGS AND SHALL BE "FORMLOK" AS MANUFACTURED BY VERCO MANUFACTURING CO., "B COMPOSITE" AS MANUFACTURED BY ASC STEEL DECK, "EPICORE" AS MANUFACTURED BY EPIC METALS, OR PRE-APPROVED EQUAL. THE FLOOR UNITS SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A653, AND GALVANIZED PER ASTM A924. SUBMIT SHOP DRAWINGS SHOWING LAYOUT AND FASTENING PATTERN. ALL ACCESSORIES INCLUDING EDGE FORMS, CLOSURE, ETC. SHALL BE PROVIDED TO COMPLETE THE INSTALLATION OF THE COMPOSITE FLOOR.

CARPENTRY

NAILS: CONNECTION DESIGNS ARE BASED ON NAILS WITH THE FOLLOWING PROPERTIES:

PENNYWEIGHT	DIAMETER (INCHES)	LENGTH (INCHES)
8d 10d	0.131 0.148	2-1/2 3
16d	0.148	3-1/2
20d	0.192	4

ALL NAILS AND STAPLES SHALL CONFORM TO ASTM F1667 INCLUDING SUPPLEMENT 1 FOR DIAPHRAGM OR SHEAR WALL NAILING THE FOLLOWING FASTENER TYPES MAY BE USED AT EQUIVALENT SPACING TO THAT SPECIFIED ON PLANS.

FASTENER TYPE	DIAMETER (INCHES)	LENGTH (INCHES)	EQUIV	ALENT SF (INCHES)	
8d COMMON WIRE	0.131	2-1/2	6	4	3
8d "DIPPED GALV. BOX"	0.131	2-1/2	6	4	3
8d COOLER	0.113	2-1/2	4-1/2	3	2-1/2
14 GA. STAPLES	0.080	1-1/2*	6	4	3
16 GA. STAPLES	0.062	1-1/2*	4	3	-
10d COMMON WIRE	0.148	3	6	4	3
10d "HOT DIPPED GALV. BOX"	0.148	3	6	4	3
10d "SHINY BOX"	0.131	3	4-1/2	3	2-1/4
16d COMMON WIRE	0.162	3-1/2	6	4	3
16d SINKER NAIL	0.148	3-1/4	5	3-1/4	2-1/2

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS JULY 7, 2016, THE AISC CODE OF STANDARD PRACTICE, JUNE 15, 2016 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, JULY 12, 2016.

STEEL MEMBERS ARE EQUALLY SPACED BETWEEN COLUMNS AND/OR DIMENSION POINTS UNLESS NOTED

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 55, UNLESS NOTED OTHERWISE, ASTM F1554, GRADE 105 WHERE

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO/AWS CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE THE TENSILE STRENGTH AND CHARPY V-NOTCH

ELD TYPE	FILLER METAL TENSILE STRENGTH	CHARPY V-NOTCH (CVN) RATING
	70 KSI	
TRATION	70 KSI	
NETRATION	70 KSI	20 FT-LBS @ 40 DEG F

WELDED CONNECTIONS INSPECTION:

ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.

THE STANDARDS OF ACCEPTANCE FOR WELDS TESTED BY ULTRASONIC METHODS SHALL CONFORM TO AWS

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.

GENERAL REQUIREMENTS

BOLTED CONNECTIONS INSPECTION: CONNECTIONS MADE WITH BEARING TYPE BOLTS SHALL BE INSPECTED

FINISH: STRUCTURAL STEEL SHALL BE PRIMED, UNLESS NOTED OTHERWISE, AND SHALL BE CLEAN OF LOOSE RUST, LOOSE MILL SCALE, OIL, GREASE AND OTHER FOREIGN SUBSTANCES AND SHALL MEET THE REQUIREMENTS OF SSPC-SP1. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS. AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.

* BASED ON 15/32" PLYWOOD OR OSB.

WOOD SHEATHING (STRUCTURAL): SHEATHING ON ROOF SURFACES SHALL BE PLYWOOD ONLY. SHEATHING ON WALLS SHALL BE PLYWOOD OR ORIENTED STRAND BOARD (OSB). WOOD SHEATHING SHALL BE RATED CONFORMING TO PS1-09 AND/OR PS2-10. ALL PANELS SHALL BEAR THE STAMP OF AN APPROVED GRADING AGENCY. SPAN RATING SHALL BE PROVIDED AS FOLLOWS: ROOF FRAMING AT 24"O.C. (32/16); WALLS (32/16).

FRAMING LUMBER: STANDARDS. EACH PIECE SHALL BEAR THE GRADE TRADEMARK OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB), WESTERN WOOD PRODUCTS ASSOCIATION (WWPA), OR OTHER AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) TO GRADE UNDER ALSC CERTIFIED GRADING RULES.

<u>SPECIES AND GRADE</u> (BASE DESIGN VALUE)

- 6x BEAMS AND HEADERS. "DOUG FIR-LARCH" NO. 1 (Fb=1350 PSI, Fv=170 PSI) 2x TO 4x JOISTS, PURLINS AND HEADERS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI, Fv=180 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fv=150 PSI)
- 4x6 SLEEPER AT LADDER ALASKAN CEDAR NO. 2 OR BETTER (Fb=750 PSI, Fv=155 PSI).
- THE MINIMUM GRADE OF ALL OTHER STRUCTURAL FRAMING. "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc=1350 PSI), OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI).
- UTILITY & STANDARD GRADES NOT PERMITTED.

PRESERVATIVE TREATED WOOD REQUIREMENTS

TREATMENTS OTHER THAN THOSE LISTED BELOW ARE NOT PERMITTED

		APPLICATION	SPECIFIED MATERIAL	PRESERVATIVE TREATMENT (1)	CONNECTORS & FASTENERS (2)(3)
	۲۲	FOUNDATION SILL PLATES, TOP PLATES & LEDGERS ON	2x, 4x, 6x (FIR), OR GLULAM (SP)	SBX	GALV (G60)
JRE	DRY	CONCRETE OR MASONRY WALLS (4)		ACQ, CBA, CA	GALV (G185)
EXPOSURE		FRAMING, DECKING,	2x, & 4x (FIR)	ACQ, CBA, CA	GALV (G185)
EXF		POSTS & LEDGERS	2x, & 4x (CEDAR)	NONE	GALV (G90)
	ME	BEAMS & COLUMNS	6x (FIR), OR GLULAM (SP)	ACQ, CBA, CA	GALV (G185)
			6x OR GLULAM (CEDAR)	NONE	GALV (G90)

- CCA: CHROMATED COPPER ARSENATE NOT PERMITTED SBX: DOT SODIUM BORATE ACQ: ALKALINE COPPER QUAT CBA & CA: COPPER AZOLE
- CONNECTORS: JOIST HANGERS, STRAPS, FRAMING CONNECTORS, COLUMN CAPS AND BASES, ETC. NUTS. NAILS, SPIKES, WOOD SCREWS, ETC.
- G60, G90 & G185 PER ASTM A653 FOR COLD-FORMED STEEL CONNECTORS. BATCH/POST HOT-DIP B695, CLASS 55 OR GREATER.
- 4. AT CONTRACTORS OPTION, LEDGERS AND TOP PLATES A MINIMUM OF 8 FEET ABOVE GRADE ON CONCRETE OR MASONRY WALLS MAY BE UN-TREATED IF COMPLETELY SEPARATED FROM THE WALL BY A SELF ADHERING ICE & WATER SHIELD BARRIER (40 MIL MINIMUM).

GENERAL REQUIREMENTS: PROVIDE MINIMUM NAILING PER IBC TABLE 2304.10.1 OR MORE, AS OTHERWISE SHOWN. STAGGER ALL NAILING TO PREVENT SPLITTING OF WOOD MEMBERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED WITH THE EXCEPTION OF INTERIOR CONCRETE TOPPINGS ON WOOD FLOOR SYSTEMS. HOLES AND CUTS IN 3x OR 4x PLATES SHOULD BE TREATED WITH A 9% SOLUTION OF COPPER NAPHTHENATE. BOLT HOLES IN WOOD MEMBERS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE CUT WASHERS WHERE BOLT HEADS, NUTS AND LAG SCREW HEADS BEAR ON WOOD. PROVIDE A MINIMUM 3"x3"x0.229" PLATE WASHER ON ALL ANCHOR BOLTS WHICH CONNECT MUD SILLS TO FOUNDATION. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS ALLOWED BY IBC SECTIONS 2308.4.2.4, 2308.5.9, 2308.5.10 AND 2308.7.4 OR AS RESTRICTED BY PLANS OR DETAILS, OR AS APPROVED PRIOR TO INSTALLATION. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

FRAMING CONNECTORS: SHALL CONFORM TO CURRENT EVALUATION REPORT AND BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA., OR PRE-APPROVED EQUAL. PROVIDE MAXIMUM SIZE AND QUANTITY OF NAILS OR BOLTS PER MANUFACTURER, EXCEPT AS NOTED OTHERWISE. PROVIDE LEAD HOLES AS REQUIRED TO PREVENT SPLITTING OF WOOD MEMBERS. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

LAG SCREWS: SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. LAG SCREWS SHALL BE OF A DIAMETER INDICATED ON DRAWINGS WITH A MINIMUM OF 8x DIA. EMBEDMENT IN SUPPORTING MEMBER UNLESS NOTED OTHERWISE. CLEARANCE HOLE FOR THE SHANK SHALL BE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE UNTHREADED PORTION OF THE SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60 TO 75 PERCENT OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE THREADED PORTION OF THE SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH. SOAP OR OTHER LUBRICANT SHALL BE USED ON THE SCREWS OR IN THE LEAD HOLE TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE SCREW. LAG SCREWS SHALL NOT BE DRIVEN WITH A HAMMER. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

MISCELLANEOUS:

PRE-APPROVED SUBSTITUTIONS: SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES, IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.

SHOP DRAWINGS/SUBMITTALS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

		STRUCTURAL ENGR.	BLDG. DEPT.
1.	CONCRETE MIX DESIGNS	X	Х
2.	REINFORCING STEEL SHOP DRAWINGS	Х	
3.	STRUCTURAL STEEL	Х	Х
4.	MISCELLANEOUS STEEL	Х	Х
5.	STRUCTURAL COMPOSITE LUMBER	Х	Х
6.	CONTRACTOR'S STATEMENT OF RESPONSIBILITY	Х	Х

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

FIR: DOUG-FIR OR HEM-FIR **SP: SOUTHERN PINE**

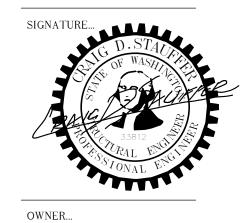
FASTENERS: MACHINE BOLTS, ANCHOR BOLTS AND LAG SCREWS WITH ASSOCIATED PLATE WASHERS AND

GALVANIZED PER ASTM A123 FOR CONNECTORS AND ASTM A153 STRUCTURAL STEEL CONNECTORS. HOT-DIP GALVANIZED PER ASTM A153 FOR FASTENERS OR MECHANICALLY GALVANIZED FASTENERS PER ASTM





(425) 556-122





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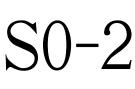
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GENERAL NOTES



STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
STEEL CONSTRUCTION	MATERIAL VERIFICATION OF STRUCTURAL STEEL A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS		x x	MANUFACTURER TO PROVIDE CERTIFIED MILL TEST REPORTS	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6
	MATERIAL VERIFICATION OF WELD FILLER MATERIALS A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		x x	MANUFACTURER TO PROVIDE CERTIFICATE OF COMPLIANCE	AISC 360 CHAPTER N5
	INSPECTION OF WELDING A. PLUG AND SLOT WELDS B. SINGLE-PASS FILLET WELDS ≤ 5/16" C. WELDING OF STAIRS AND RAILING SYSTEMS	X	X X	SPECIAL INSPECTIONS IN THIS SECTION ARE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6 AWS D1.1
STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL	INSPECTION OF WELDING A. REINFORCING STEEL: 1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706		х		AWS D1.3 AWS D1.4 ACI 318:26.6.4

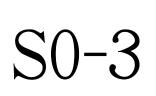
TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- » PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- » REVIEW OF TESTING AND INSPECTION REPORTS.
- » REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

ACHOR BOLT DITIONAL BOVE FINISH FLOOR TERNATE RCHITECTURAL ILDING OCKING AM DITOM OF FOOTING DITOM OF FOOTING DITOM ARING TWEEN ILT UP AMBER ANTILEVER DLD-FORMED STEEL DNTROL/CONSTRUCTION JOINT ENTERLINE EARANCE DNCRETE MASONRY UNIT DLUMN DNCRETE DNNECTION DNSTRUCTION DNTINUOUS DNTRACTOR DORDINATE DMPLETE PENETRATION ENTERED IBIC YARD DUBLE DISCLACE SID	HGR HORIZ. HSS HT INT. JST JT LL LLV LOC. LSL LVL MAX. MECH. MECH. MEZZ. MFR MIN. MISC. NTS OPN'G OPN'G OPP. P.A.F. PERP.	HANGER HORIZONTAL HOLLOW STRUCTURAL SECTION HEIGHT INTERIOR JOIST JOINT ANGLE LIVE LOAD LONG LEG HORIZONTAL LONG LEG VERTICAL LOCATION LAMINATED STRAND LUMBER MAXIMUM MACHINE BOLT MECHANICAL MEZZANINE MINIMUM MISCELLANEOUS METAL NEAR FACE NEAR SIDE ON CENTER OPPOSITE POWDER ACTUATED FASTENER PERPENDICULAR PLATE
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ENTERED IBIC YARD DUBLE	PERP.	PERPENDICULAR
IBIC YARD DUBLE	P	
DUBLE	-	PLATE
	pp	
		PARTIAL PENETRATION
DUGLAS FIR	P.P.T.	PRESERVATIVE PRESSURE TREATED
AMETER	P.S.F.	POUNDS PER SQUARE FOOT
AGONAL	PSL	PARALLAM
MENSION	P.T.	POST TENSION
EAD LOAD	РW.	PLYWOOD
RAWING	REINF.	REINFORCEMENT
OWEL		REQUIRED
	REQ'D	
KISTING	SCHED.	SCHEDULE
чСН	SCL	STRUCTURAL COMPOSITE LUMBE
ACH FACE	SHT'G	SHEATHING
EVATION	SIM.	SIMILAR
EVATOR	5.0.G.	SLAB ON GRADE
IGINEER	SQ.	SQUARE
QUAL	STD	STANDARD
АСН МАТ	STIFF.	STIFFENER
PANSION	STL	STEEL
TERIOR	STRUCT.	STRUCTURAL
DUNDATION	T₿B	TOP & BOTTOM
AR FACE	T ₿ G	TONGUE AND GROOVE
.00R	THR'D	THREADED
CE OF MASONRY	T.O.F.	TOP OF FOOTING
CE OF STUD		TOP OF STEEL
		TREATED
		TYPICAL
		UNLESS NOTED OTHERWISE
		ULTRASONIC TESTED
		VERTICAL
	М/	WITH
ULAM	W.P.	WORK POINT
	MT	WEIGHT
RADE	W.W.R.	WELDED WIRE REINFORCING
	IGINEER QUAL ACH WAY APANSIONA APANSIONA APA	EVATIONSIM.EVATORS.O.G.EVATORS.O.G.IGINEERSQ.QUALSTDACH WAYSTIFF.ACH WAYSTIFF.ACH WAYSTIFF.ACH WAYSTRUCT.ACH WAYSTRUCT.ACH WAYSTRUCT.ACH WAYSTRUCT.ACH WAYSTRUCT.ACH WAYSTRUCT.ACH WAYSTRUCT.ACH ORTt&BACE OF MASONRYT.O.F.ACE OF STUDT.O.S.ACE OF STUDT.O.S.AMINGTRT'DRE RETARDANT TREATEDTYP.ACE OF AUGEVERT.ACVANIZEDW/JULAMW.P.RADEMT



SHEET NO...

GENERAL NOTES

SHEET TITLE ...

01-17-22

_____ DATE...

20-06

JOB NO...

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LAWHEAD

ARCHITECTS P.S.

1239 120TH AVE. N.E., STE. D BELLEVUE, WA 98005 (425) 556-1220

SIGNATURE.

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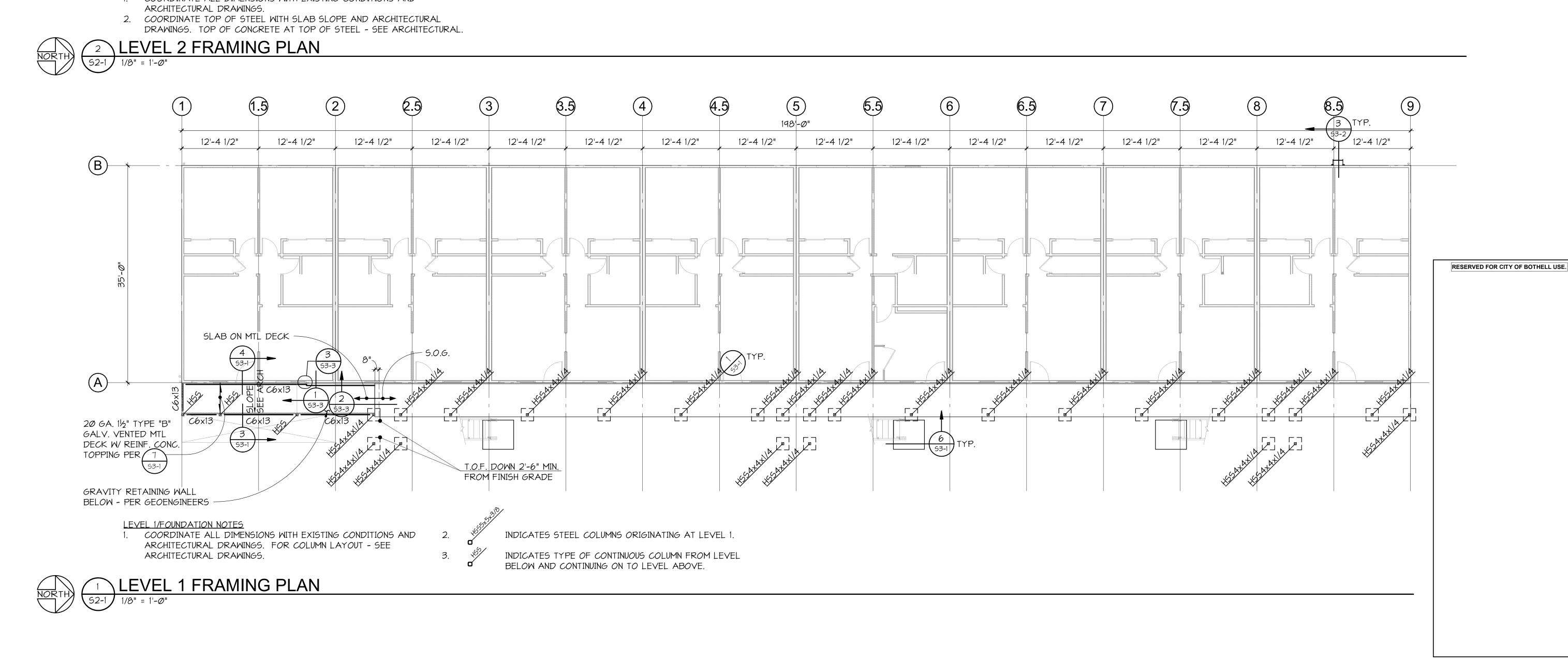
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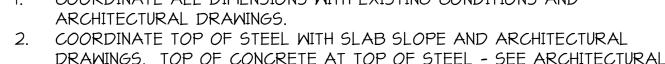
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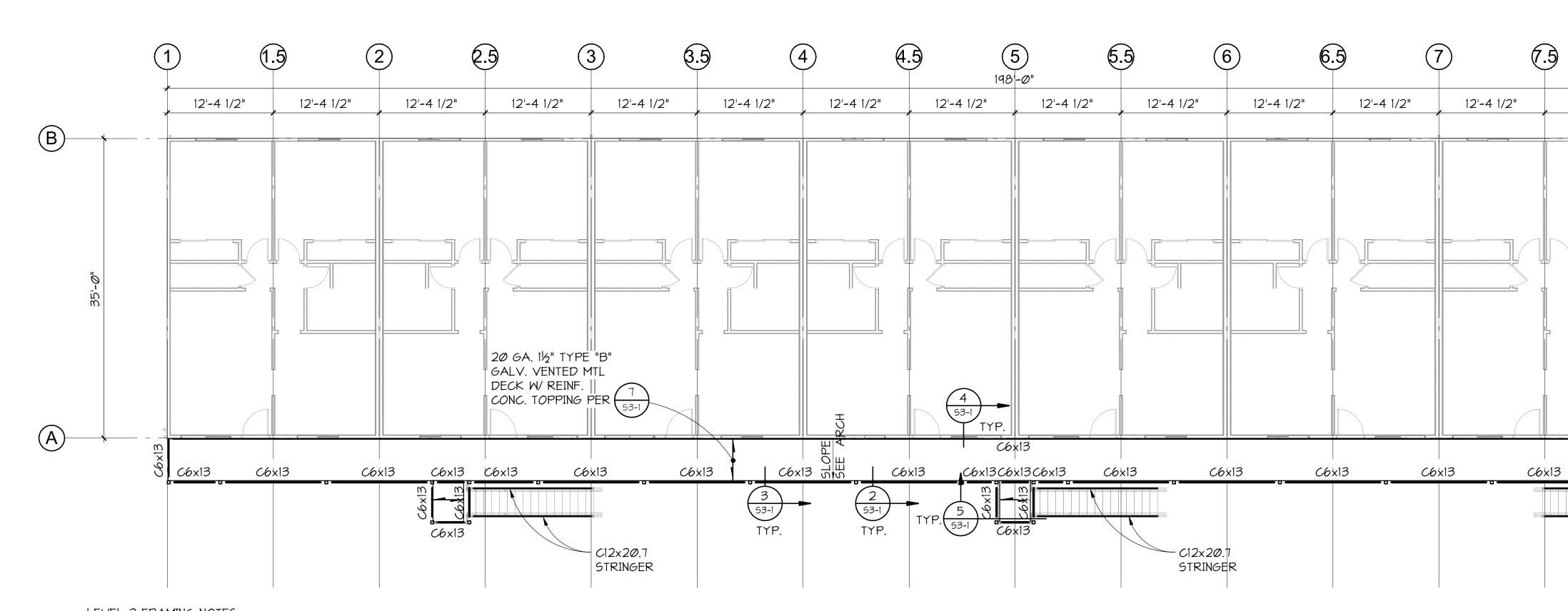
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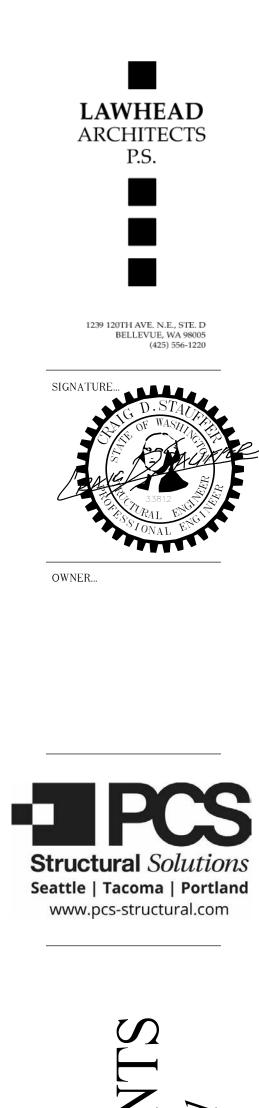
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(8)

C6x13 C6x13

C6x13

C12x2Ø.7

STRINGER

12'-4 1/2"

(9)

(8.5)

12'-4 1/2"

TYP

12'-4 1/2"

C6x13 ि

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JOB NO...

20-06

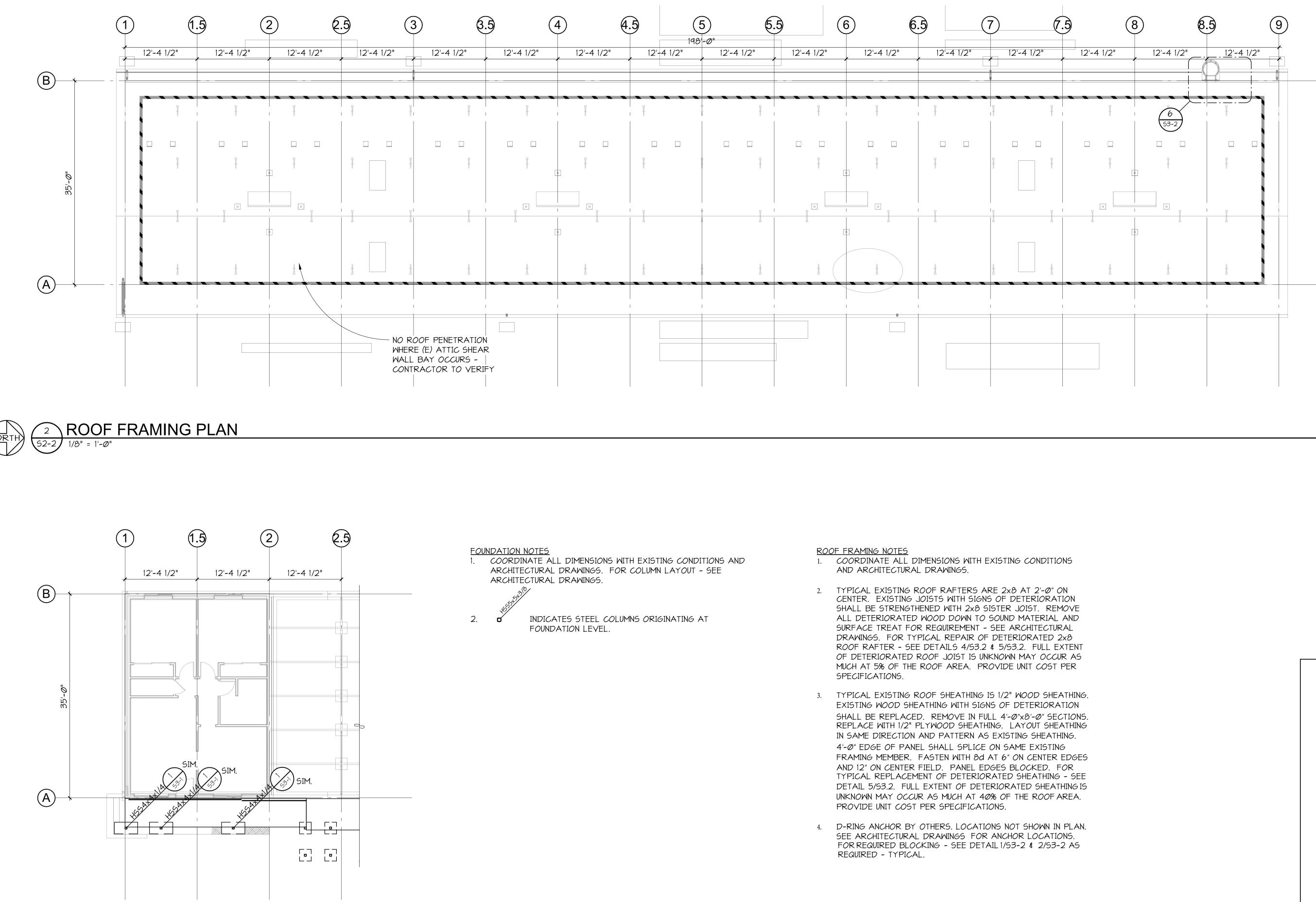
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01-17-22

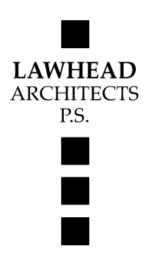
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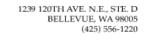
S2-

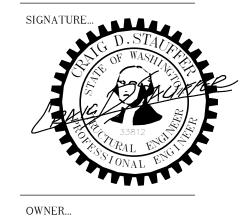
LEVEL 1 AND 2 FLOOR FRAMING PLANS SHEET NO ...















PHASE

BID SET

JOB NO...

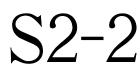
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DATE...

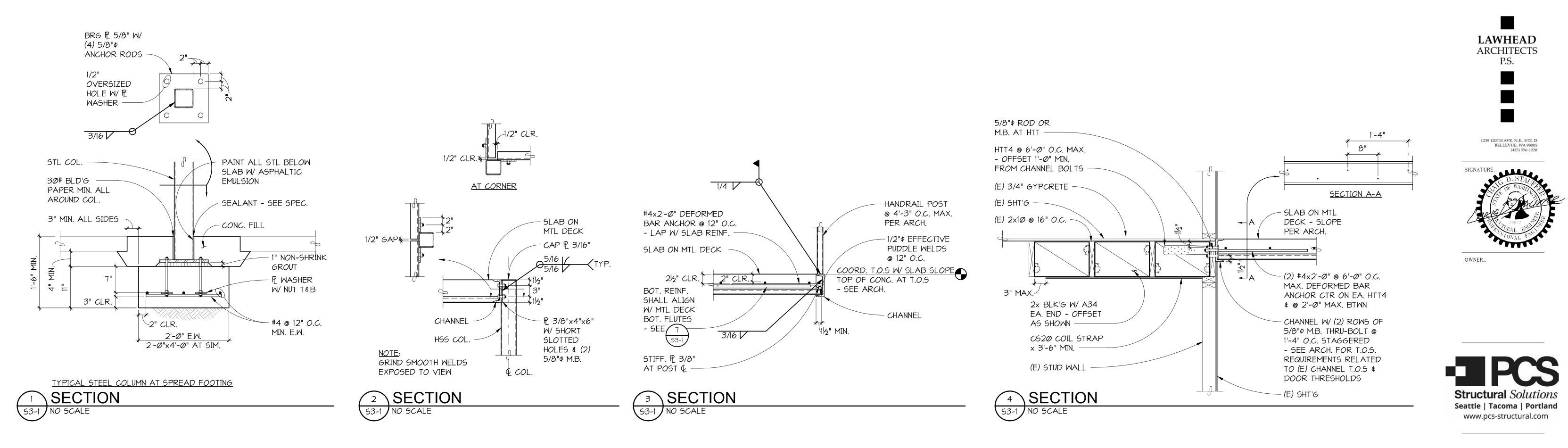
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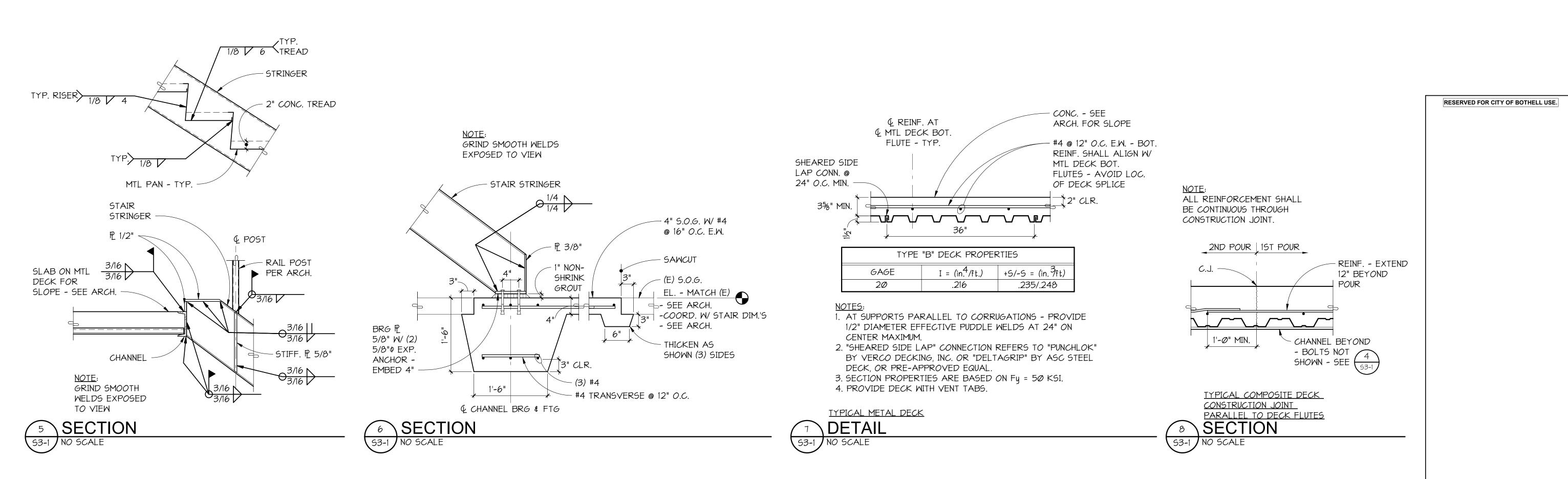
SHEET TITLE ...

LEVEL 1 FOUNDATION AND ROOF FRAMING PLANS



RESERVED FOR CITY OF BOTHELL USE.







PHASE

BID SET

JOB NO...

20-06

DATE...

01-17-22

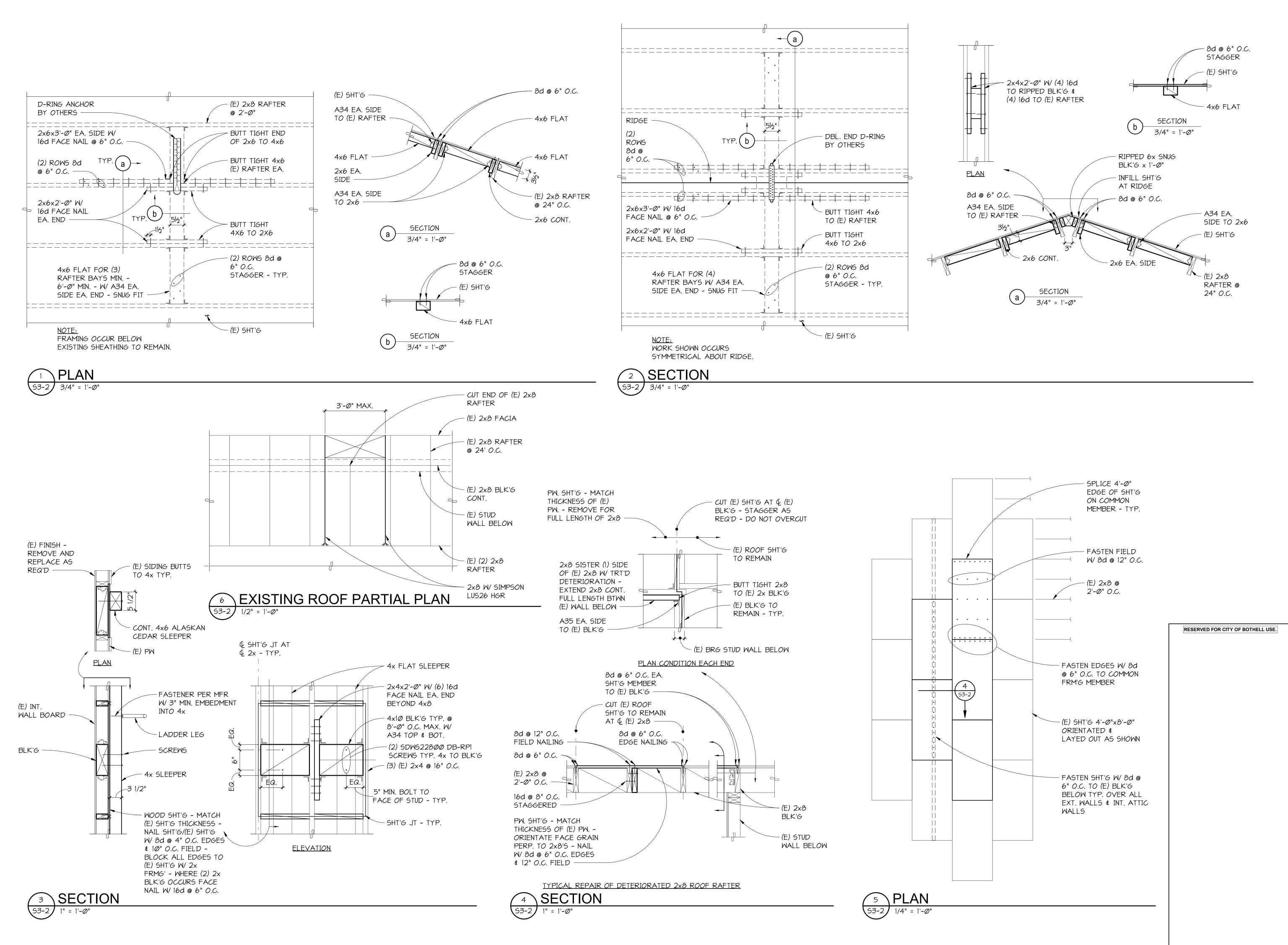
SHEET TITLE ...

DETAILS

SHEET NO ...

S3-

STRUCTURAL



C:_Revit Models\21034 KCHA Park Royal Bldg 1 R2020 (Central)_dmorfordPCS.r

0/14/2021 11:49:03 AM



LAWHEAD

ARCHITECTS

P.S.





PHASE ...

BID SET

JOB NO...

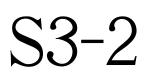
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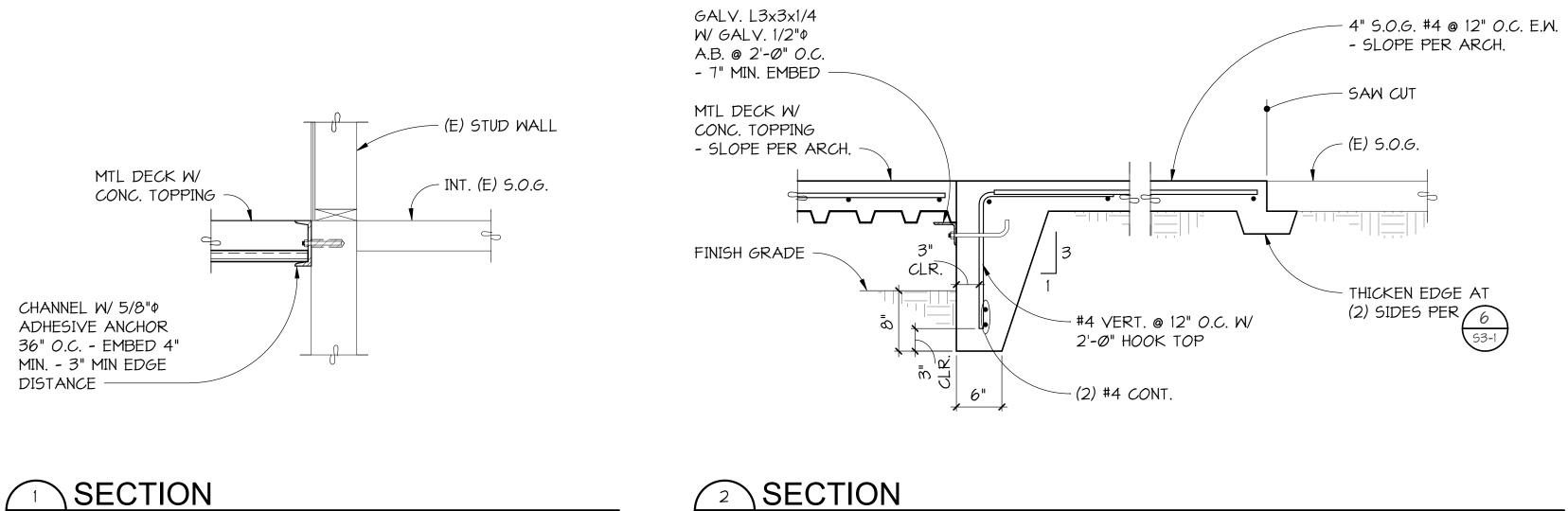
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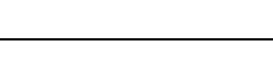
01-17-22

SHEET TITLE...

STRUCTURAL DETAILS

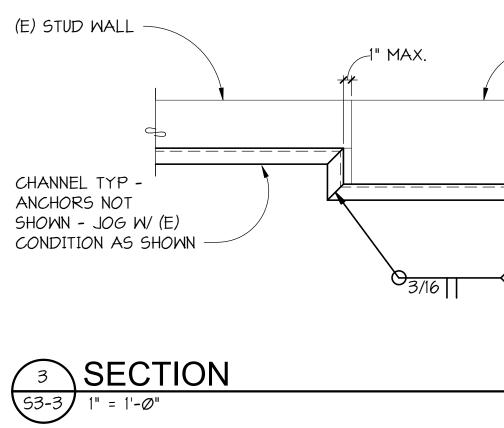




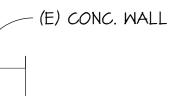


53-3 1" = 1'-Ø"



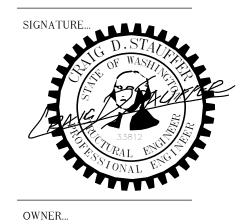






TYP. FLANGE & WEB - GRIND SMOOTH WHERE EXPOSED TO VIEW









PHASE ...

RESERVED FOR CITY OF BOTHELL USE.

BID SET

JOB NO...

20-06

DATE...

01-17-22

SHEET TITLE ...

SHEET NO ...

S3-3

STRUCTURAL DETAILS
