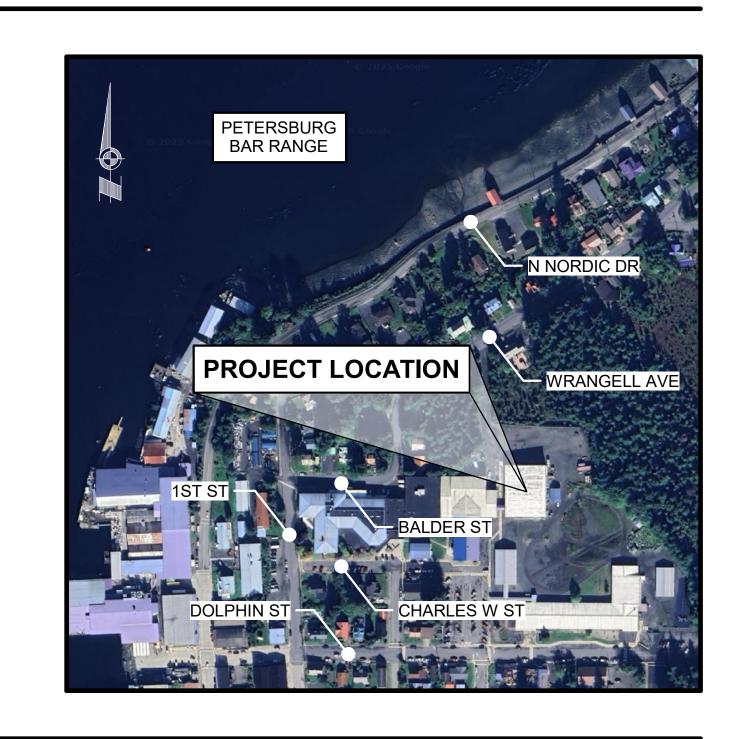
# DRAIN LINE REPAIRS

# BID DOCUMENTS

FOR:

# PETERSBURG AQUATIC CENTER PETERSBURG, ALASKA 99833



### PREPARED BY:



Juneau, AK

9109 Mendenhall Mall Rd, Ste 4 Juneau, AK 99801

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AECC163270

	SHEET INDEX
SHEET	SHEET TITLE
G-001	PROJECT COVER SHEET
A-001	LEGEND AND ABBREVIATIONS
A-101	REFERENCE PLAN
AD111	PARTIAL FIRST FLOOR PLAN - DEMOLITION
A-111	PARTIAL FIRST FLOOR PLAN
S-001	LEGEND AND ABBREVIATIONS
S-002	GENERAL NOTES
S-003	SPECIAL INSPECTIONS
S-101	TYPICAL DETAILS
S-201	REFERENCE PLAN
SD211	PARTIAL FOUNDATION AND SLAB PLAN - DEMOLITION
S-211	PARTIAL FOUNDATION AND SLAB PLAN
S-301	FOUNDATION DETAILS
S-302	FOUNDATION DETAILS
M-001	MECHANICAL SYMBOL LEGEND & ABBREVIATIONS
M-002	SPECIFICATIONS
M-111	OVERALL PLAN - RADIANT TUBING
MD111	FIRST FLOOR PLAN - PLUMBING - DEMOLITION
M-112	FIRST FLOOR PLAN - UNDERGROUND PLUMBING
M-511	PLUMBING DETAILS

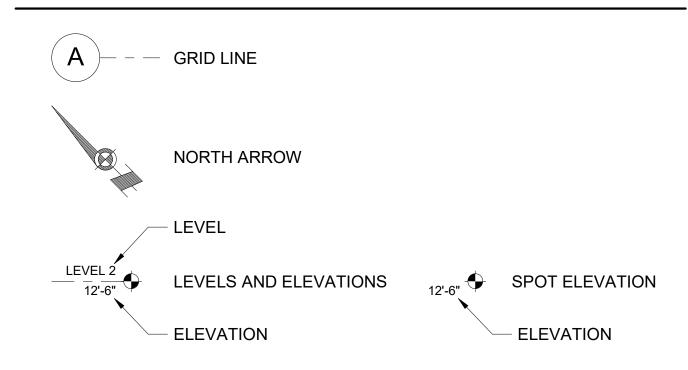
	EXHIBIT DRAWINGS
SHEET	SHEET TITLE
EX1	EXHIBIT DRAWING
EX2	EXHIBIT DRAWING
EX3	EXHIBIT DRAWING
EX4	EXHIBIT DRAWING
EX5	EXHIBIT DRAWING
EX6	EXHIBIT DRAWING

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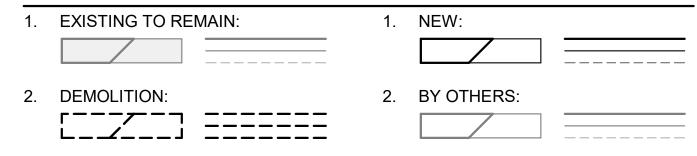
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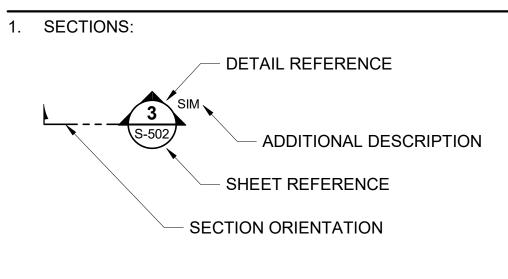




#### **LINEWORK**

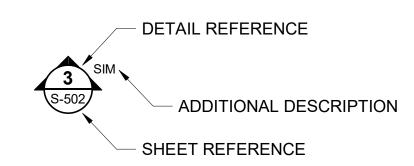


#### **REFERENCES**

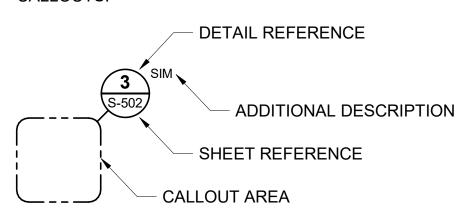


A LOCALLY REFERENCED SECTION

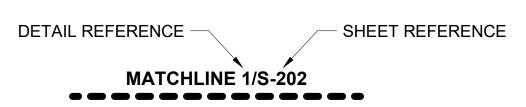
2. ELEVATIONS:



3. CALLOUTS:



4. MATCHLINES:



#### **CODE ANALYSIS**

- 1. PROJECT:
  - A. PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS
    PETERSBURG PARKS AND RECRECATION, PETERSBURG, AK 99833
- 2. CLIENT:
  - A. PETERSBURG PARKS AND RECREATIONS
- 3. CONTRACTOR:
  - A. TBD
- 4. SCOPE OF WORK:
- A. REPLACING/REPAIRING BROKEN SANITARY PIPING BELOW EXISTING SLAB FOUNDATION.
- 5. ORIGINAL CODES:
  - A. 2003 INTERNATIONAL FAMILY OF CODES
- 6. CURRENT CODES:
- A. 2021 INTERNATIONAL FAMILY OF CODES WHERE APPLICABLE, INCLUDING:
  - a. 2021 EXISTING BUILDING CODE, LEVEL 1 ALTERATION (SECTION 302)
- 7. CONSTRUCTION TYPE:
  - A. VB FULLY AUTOMATIC SPRINKLERED OCCUPANCY TYPE A-3

#### **GENERAL NOTES**

- . CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES IN ACCOMPLISHING NEW WORK.
- 2. REMOVE AND STORE ALL EXISTING FIXTURES, CABINETRY, CASEWORK INCLUDING LOCKERS, BENCHES, TOILETS, SINKS, TOILET/URINAL PARTITIONS, ACCESSORIES, UNLESS NOTED OTHERWISE. REFER TO EXHIBIT DRAWING EX1 FOR EXISTING LIST. REINSTALL TO COMPLETE WORK.
- 3. REFER TO STRUCTURAL DRAWINGS FOR EXTENT OF CONCRETE FLOOR AND CMU WALL SHORING OR DEMOLITION EXTENTS.
- 4. CONTRACTOR TO PROTECT ALL EXISTING FINISHES AND FURNISHINGS TO ACCOMPLISH THE WORK. DAMAGED FINISHES OR FURNISHINGS TO BE REPLACED AT CONTRACTOR'S EXPENSE.
- 5. ADDITIVE ALTERNATES:
  - A. ADD ALT 1 AND 2 ARE AREAS OF THE FIRST FLOOR SLAB WHICH MAY NEED TO BE REMOVED TO REPAIR THE EXISTING UTILITIES. SEE MECHANICAL AND STRUCTURAL FOR ADDITIONAL INFORMATION.







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LE: ND AND ABBREVIATIONS

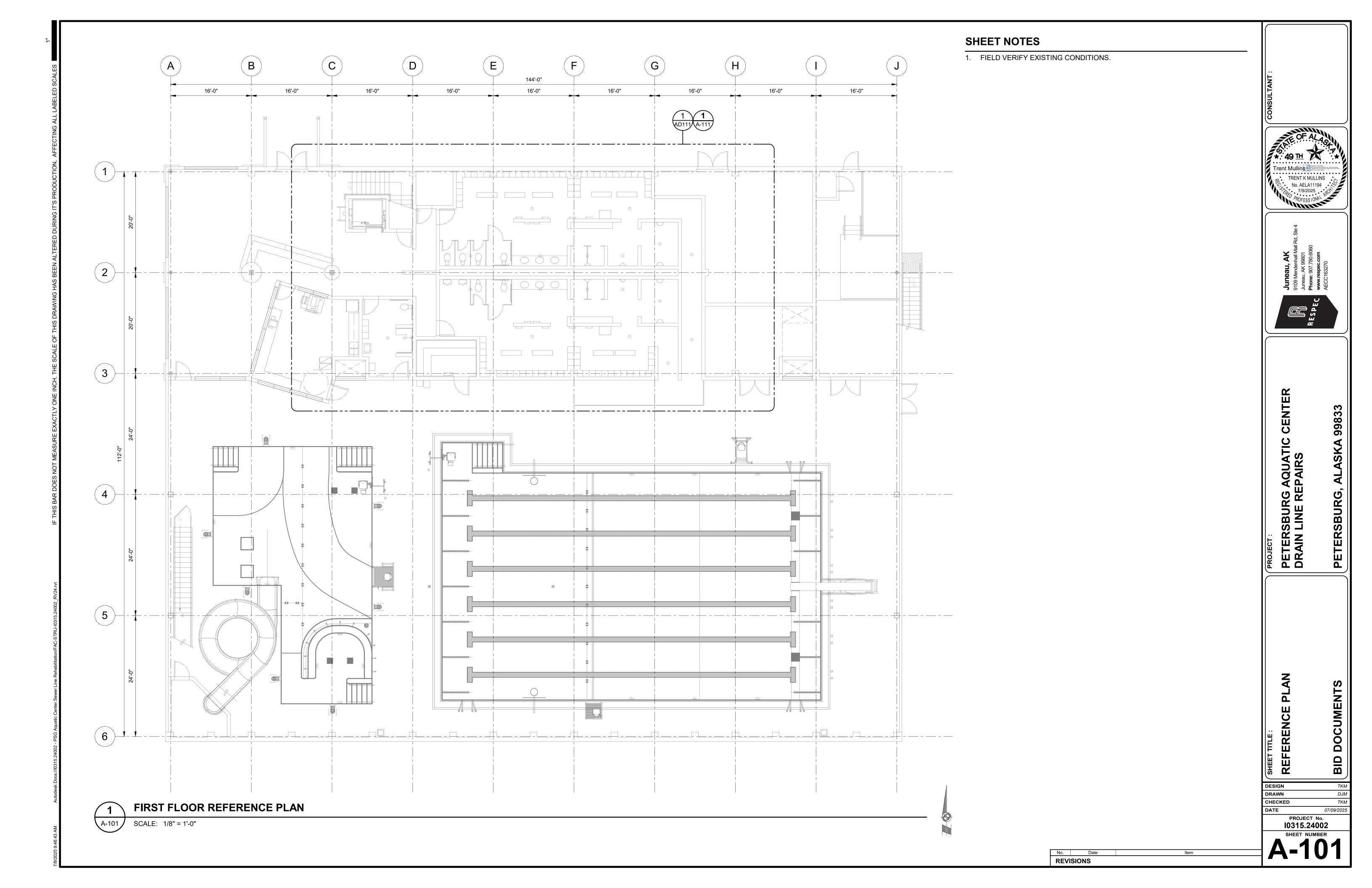
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PROJECT No.

No. Date Item

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2. EXISTING TILE:

3. EXISTING FINISHES TO REMAIN:

PARTIAL FIRST FLOOR PLAN - DEMOLITION

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

SHORING AND DEMOLITION LEGEND

1. 8" CMU PARTITION WALL SHORING: (SEE STRUCTURAL)

2. 8" CMU SHEAR WALL SHORING: (SEE STRUCTURAL)

3. CONCRETE FLOOR SLAB DEMOLITION: (SEE STRUCTURAL)

**DEMOLITION KEYNOTES** (#)

- 1. REMOVE DOOR, FRAME, HARDWARE, AND STORE FOR REINSTALL.
- 2. REMOVE EXISTING CABINETRY, LAVATORIES, TOILETS, PARTITIONS, ACCESSORIES, AND LOCKERS AS NEEDED TO ACCOMPLISH WORK. PROTECT AND STORE FOR REINSTALL.
- 3. REMOVE EXISTING BENCHES AS NEEDED TO ACCOMPLISH WORK. PROTECT AND STORE FOR REINSTALL
- 4. REMOVE ALL (E) TILE, TILE BASE, GROUT, AND MORTAR. PREPARE FOR NEW SEALED CONCRETE FINISH.
- 5. PEEL BACK (E) CARPET AND PROTECT TO ACCOMPLISH SLAB

**SHEET NOTES** 

- 1. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES IN ACCOMPLISHING NEW WORK.
- 2. REMOVE AND STORE ALL EXISTING FIXTURES, CABINETRY, CASEWORK INCLUDING LOCKERS, BENCHES, TOILETS, SINKS, TOILET/URINAL PARTITIONS, ACCESSORIES UNLESS NOTED OTHERWISE. REFER TO EXHIBIT DRAWING EX1 FOR EXISTING
- 3. REFER TO STRUCTURAL DRAWINGS FOR EXTENTS OF EXISTING CONCRETE FLOOR DEMOLITION AND CMU WALL SHORING. CONTRACTOR TO REPAIR/REPLACE EXISTING CMU WALL ASSEMBLIES AND REPAINT ENTIRE WALLS WHERE REQUIRED DUE TO DAMAGE TO EXISTING WALLS.

**REVISIONS** 

4. CONTRACTOR TO PROTECT ALL EXISTING FINISHES AND FURNISHINGS TO ACCOMPLISH THE WORK. DAMAGED FINISHES OR FURNISHINGS TO BE REPLACED AT CONTRACTOR'S EXPENSE.

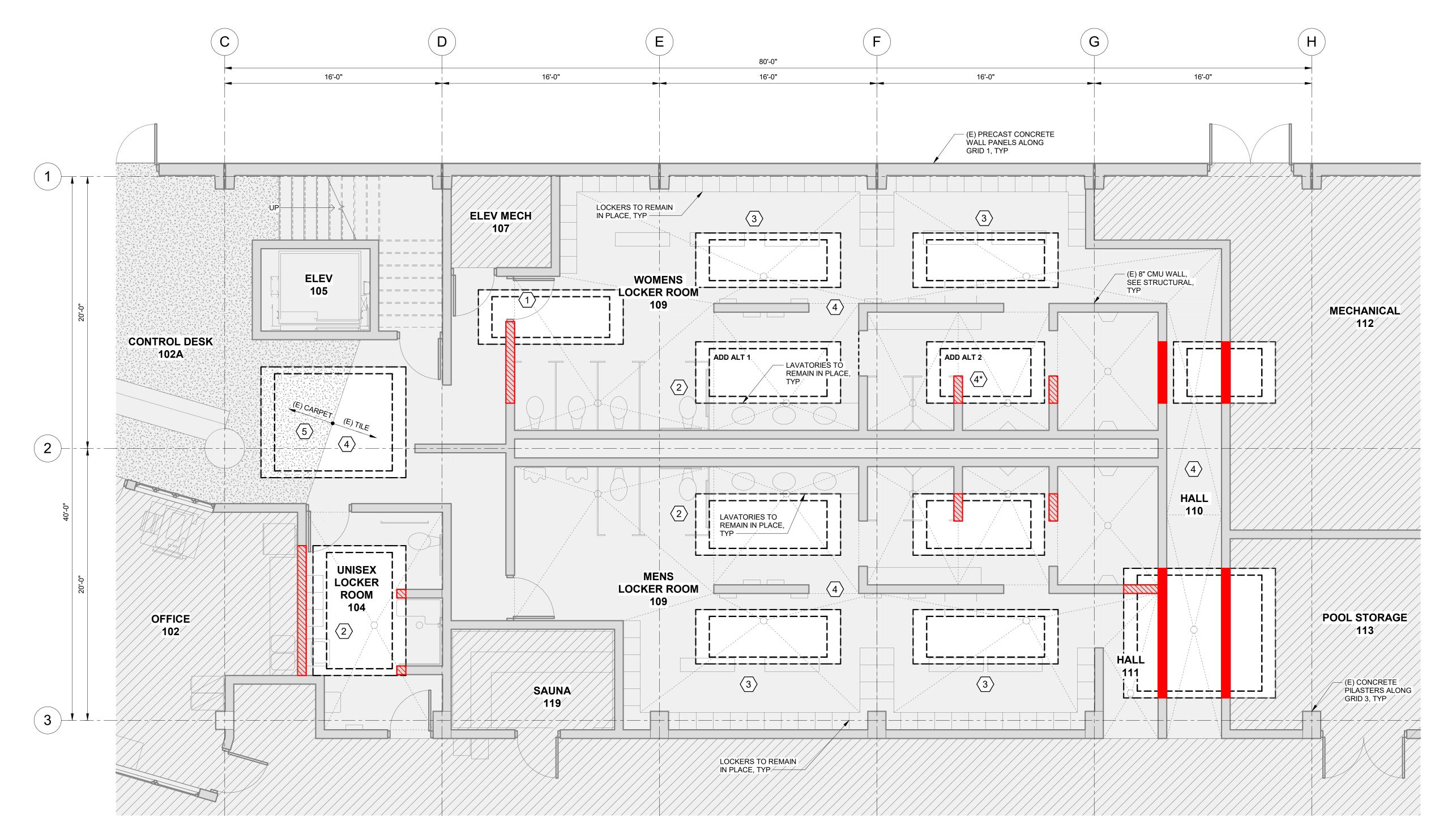
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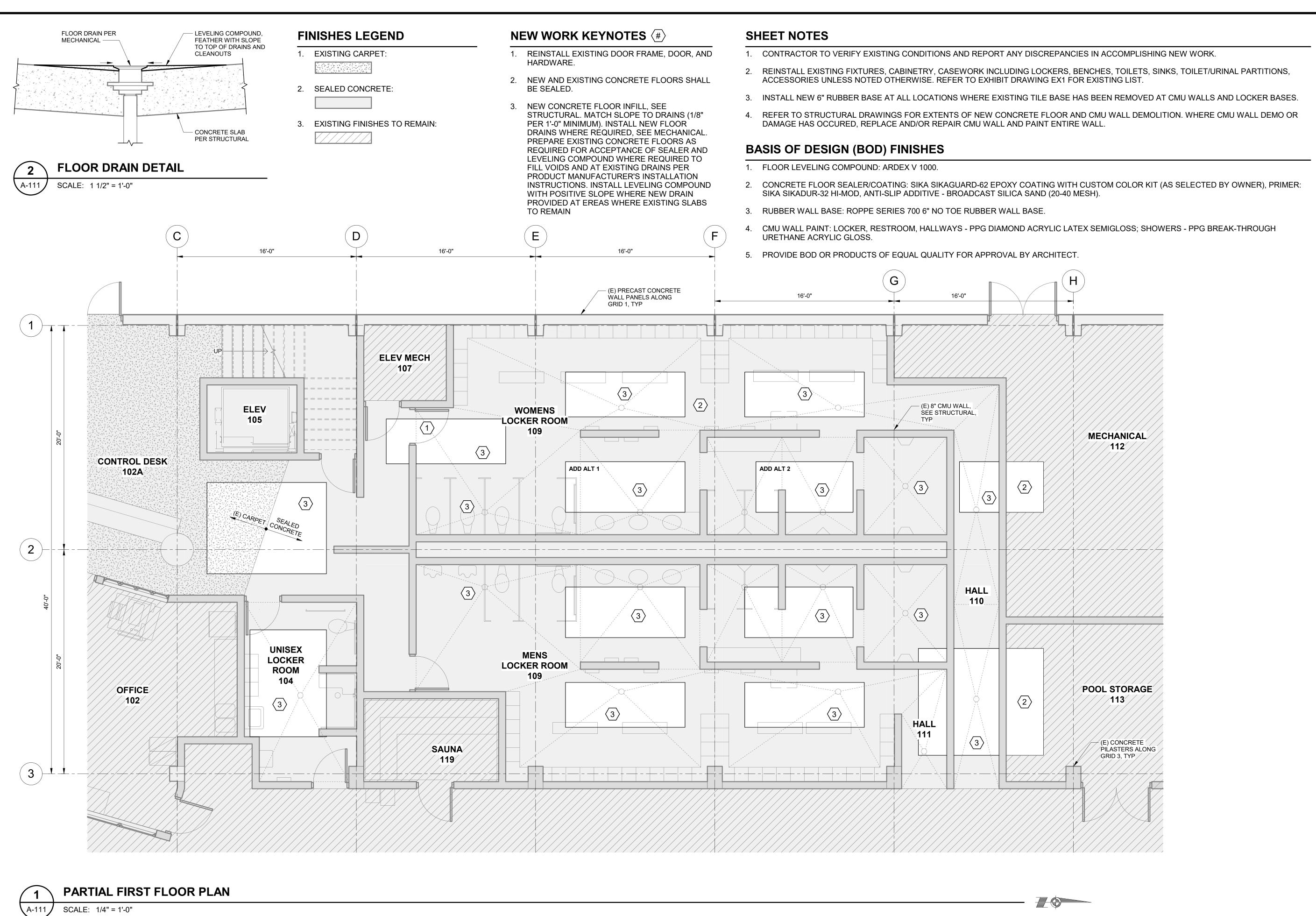


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**REVISIONS** 

TRENT K MULLINS

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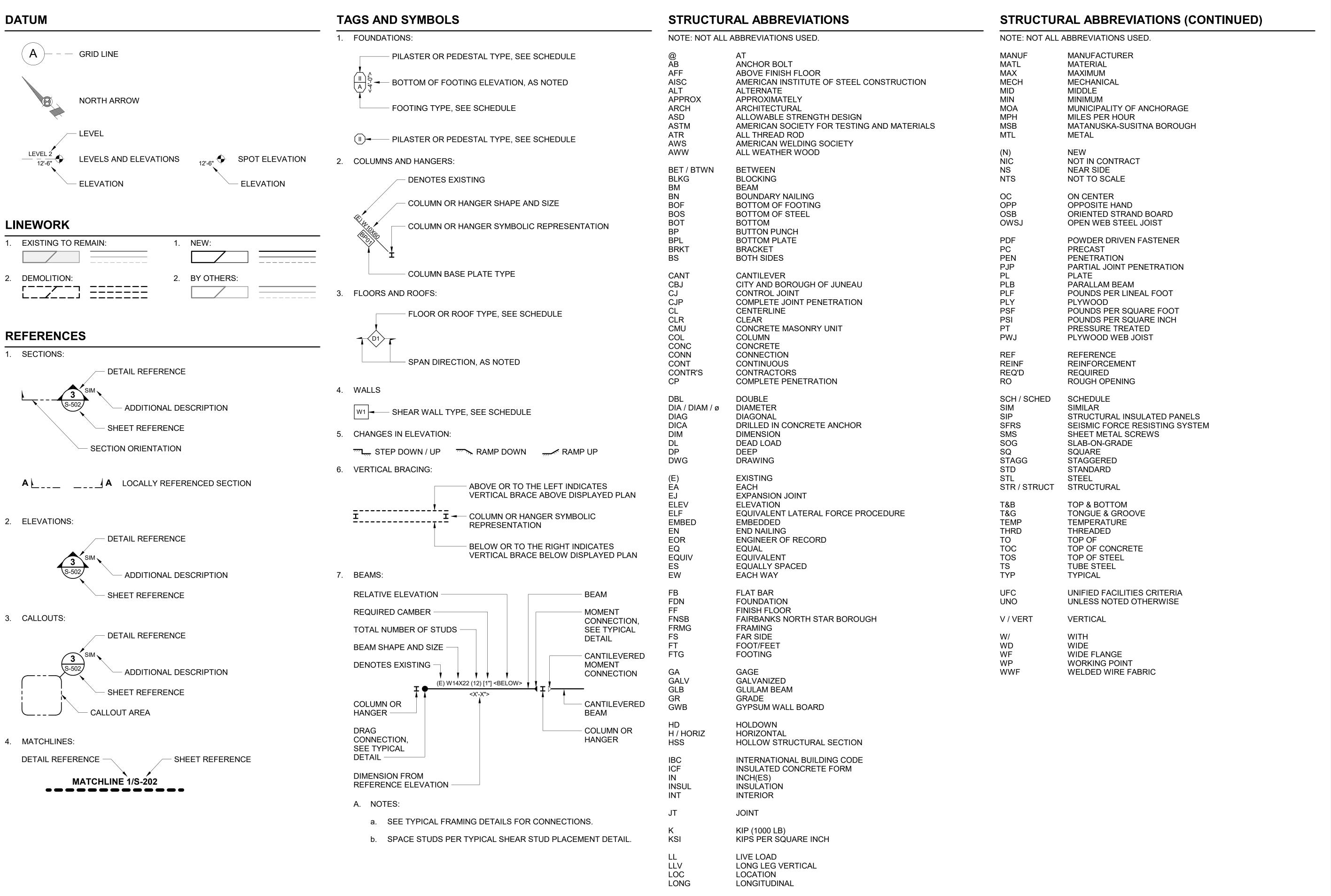
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D. MECHANICAL MEZZANINE

E. MECHANICAL MEZZANINE

1. RISK CATEGORY (PER RECORD DRAWINGS)

3. SNOW LOADS:

A. GROUND SNOW LOAD  $P_{g} = 65 \text{ PSF (ORIGINAL)} \\ 150 \text{ PSF (CURRENT)}$ B. EXPOSURE FACTOR  $C_{e} = 1.0$ 

125 PSF

170 PSF

C. THERMAL FACTOR  $C_t = 1.0$ D. IMPORTANCE FACTOR  $I_s = 1.1$ 

E. ROOF SNOW LOAD  $P_s = 50 \text{ PSF (ORIGINAL)}$ 116 PSF (CURRENT)

4. WIND LOADS:

A. WIND SPEED  $V_{ULT} = 147 \text{ MPH}$ 

B. WIND EXPOSURE CATEGORY C

C. IMPORTANCE FACTOR  $I_w = 1.00$ 

5. SEISMIC LOADS:

A. SEISMIC FORCE RESISTING SYSTEM

a. STEEL BRACED FRAMESb. CMU SHEAR WALLS

c. CONCRETE SHEAR WALLS

B. SEISMIC IMPORTANCE FACTOR  $I_e = 1.25$ 

C. SITE CLASS D (RECORD DOC'S)

D. MAPPED ACCELERATIONS

a. SHORT-PERIOD  $S_S = 0.29 g$ b. 1-SECOND  $S_1 = 0.28 g$ 

E. DESIGN ACCELERATIONS

F. SEISMIC DESIGN CATEGORY

a. SHORT-PERIOD  $S_{DS} = 0.30 \text{ g}$ b. 1-SECOND  $S_{D1} = 0.37 \text{ g}$ 

6. FOUNDATION DESIGN CRITERIA

A. THE BUILDING IS FOUNDED ON STEEL PILES, REFER TO THE EXISTING BUILDING DRAWINGS FOR MORE INFORMATION.

#### STRUCTURAL GENERAL NOTES

 THE SCOPE OF WORK IS TO REPAIR THE EXISTING SEWER PIPING. THE EXISTING UTILITIES ARE LOCATED BELOW THE FIRST FLOOR SLAB. THE FIRST FLOOR IS COMPOSED OF AN ELEVATED CONCRETE SLAB SUPPORTED BY CONCRETE BEAMS AND GIRDERS, WHICH ARE FOUNDED ON STEEL PILES.

A. THE EXISTING STRUCTURAL FLOOR SLAB MUST BE DEMOLISHED AND REPLACED AS INDICATED TO PROVIDE ACCESS TO THE UNDERFLOOR UTILITIES.

B. MULTIPLE INTERIOR CMU PARTITION WALLS MUST BE SHORED IN PLACE OR REMOVED AND RE-INSTALLED. MULTIPLE INTERIOR CMU SHEAR WALLS MUST BE SHORED IN PLACE. ALL SHORING OF EXISTING WALLS IS PART OF THE DELEGATED DESIGN, FOR MORE INFORMATION, SEE THE STRUCTURAL DELEGATED DESIGN NOTES.

2. PERFORM ALL WORK IN COMPLIANCE WITH THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

A. THE INTERNATIONAL BUILDING CODE (IBC) 2021 AND ITS REFERENCED STANDARDS, HEREIN REFERRED TO AS "THE CODE", AND OTHER REGULATORY CRITERIA WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.

3. THIS WORK INVOLVES EXISTING STRUCTURES, PERFORM THE FOLLOWING TASKS PRIOR TO STARTING CONSTRUCTION:

A. SURVEY AND FIELD VERIFY ALL EXISTING CONDITIONS ASSOCIATED WITH THE WORK.

B. INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS FOUNDATIONS, ETC.

C. ALL OMISSIONS OR CONFLICTS BETWEEN ELEMENTS OF THE CONTRACT DOCUMENTS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OF RECORD, PRIOR TO PROCEEDING WITH THE RELATED WORK.

4. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONSTRUCTION LOADS MUST NOT EXCEED THE DESIGN LIVE LOADS.

5. IF THE STRUCTURAL ENGINEER OF RECORD IS NOT RETAINED BY THE OWNER TO OVERSEE CONSTRUCTION ACTIVITIES, THE STRUCTURAL ENGINEER OF RECORD IS NOT IN RESPONSIBLE CHARGE OF THE CONSTRUCTION PER SECTION 107.3.4 OF THE CODE. CONSTRUCTION ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, REVIEW OF SPECIAL INSPECTION AND STRUCTURAL OBSERVATION REPORTS, REVIEW OF SUBMITTAL DOCUMENTS, AND REVIEW OF DELEGATED DESIGN SUBMITTALS.

6. THE FOLLOWING ITEMS ARE PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS):

A. PRECAST CONCRETE SHEAR WALLS, CMU SHEAR WALLS, STEEL BRACED FRAMES, DRAG BEAMS, CONCRETE FLOORS (AT MEZZANINE AND GROUND FLOORS), ROOF DECK, AND ALL ASSOCIATED CONNECTIONS.

#### STRUCTURAL DELEGATED DESIGN NOTES

- THE DESIGN OF THE FOLLOWING ELEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR:
- A. ALL SHORING OF EXISTING BUILDING ELEMENTS REQUIRED TO COMPLETE THE WORK, INCLUDING BUT NOT LIMITED TO:
  - a. INTERIOR CMU PARTITION WALLS
  - b. INTERIOR CMU SHEAR WALLS
- B. THE SHORING DESIGN MUST INCLUDE ALL ASPECTS NECESSARY TO SUPPORT THE EXISTING BUILDING ELEMENTS WITHOUT DAMAGE OR OVERLOAD.
- C. THE DESIGN OF ALL FORMWORK AND SHORING REQUIRED FOR THE NEW FLOOR SLAB.
- D. ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL EQUIPMENT BRACING AND ANCHORAGE TO THE STRUCTURE
- 2. PROVIDE SUBMITTALS TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW.
- 3. SUBMITTALS MUST INCLUDE DRAWINGS AND CALCULATIONS SEALED BY A CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF ALASKA.

#### STRUCTURAL CONCRETE NOTES

- I. PERFORM ALL CONCRETE WORK IN ACCORDANCE WITH CHAPTER 19 OF THE IBC, AND ALL REFERENCED STANDARDS.
- 2. USE NORMAL WEIGHT (150 PCF) CAST-IN-PLACE CONCRETE WITH 28 DAY COMPRESSIVE STRENGTHS (F'c) AS FOLLOWS:

CONDITION	MINIMUM STRENGTH (PSI)	EXPOSURE CATEGORY	MAX W/C RATIO	AIR ENTRAINMENT
FLOOR SLAB	5,000	F0, S0, W2, C2	0.50	0%

- 3. CONCRETE MATERIAL REQUIREMENTS:
- A. USE PORTLAND CEMENT CONFORMING TO ASTM STANDARD C-150 AND TYPE I, IL, OR III, UNLESS NOTED OTHERWISE.
- 3. USE NORMAL WEIGHT AGGREGATE OF NATURAL SAND AND ROCK CONFORMING TO THE REQUIREMENTS AND TESTS OF ASTM C-33.
- REINFORCING MATERIAL REQUIREMENTS:
- A. USE DEFORMED REINFORCING BARS CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60. WHERE WELDING OF REINFORCING BARS OCCURS, USE ASTM A706 GRADE 60.
- 5. PROVIDE DOWELS, WHERE REQUIRED, THAT MATCH THE SIZE AND NUMBER OF MAIN REINFORCING.
- 6. SPLICE REINFORCING BARS WHERE INDICATED ON THE DRAWINGS. LAP HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS. STAGGER ALL SPLICES UNLESS NOTED OTHERWISE. IF SPLICE LOCATIONS ARE NOT SPECIFICALLY INDICATED, VERIFY PLANNED LOCATION WITH THE EOR.
- 7. DETAIL, FABRICATE, LABEL, SUPPORT, AND SPACE ALL CONCRETE REINFORCEMENT CONFORMING TO THE PROCEDURES AND REQUIREMENTS OF THE LATEST EDITION OF CHAPTER 19 OF THE CODE, ACI 318, AND THE "ACI DETAILING MANUAL: DETAILS AND DETAILING CONCRETE REINFORCEMENT", ACI 315.
- 8. PROVIDE A MINIMUM CONCRETE COVER OVER REINFORCING OF:
  - A. 3" FOR CONCRETE CAST AGAINST THE EARTH.
  - B. 11/2" FOR BARS EXPOSED TO WEATHER AND BEAMS AND COLUMNS.
- C. 1 1/2" FOR INTERIOR SLABS.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF SHORING. THE DESIGN, REMOVAL, AND RESHORING OF FORMWORK MUST CONFORM TO ACI 318, THE CODE, AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 10. PROVIDE CONCRETE WITH A MAXIMUM SLUMP OF 8 INCHES ± 1 INCH WITH VERIFIED SLUMP OF 3 INCHES ± 1 INCH BEFORE ADDING HIGH-RANGE WATER REDUCING OR PLASTICIZING ADMIXTURES AT THE PROJECT SITE.
- 11. SUBMIT THE FOLLOWING TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL:
  - A. CONCRETE MIX DESIGN DATA FOR EACH TYPE AND COMPRESSIVE STRENGTH OF CONCRETE REQUIRED. BASE MIX DESIGNS ON FIELD EXPERIENCE, TRIAL MIXTURES, OR BOTH, IN CONFORMANCE WITH ACI 318. MIX DESIGNS MUST BE SIGNED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER.
- B. REINFORCING BAR SHOP DRAWINGS, CONTAINING ALL REINFORCING DETAILS, SPACING, PLACEMENT, COUPLERS, AND PLANNED CONSTRUCTION JOINTS. PREPARE SHOP DRAWINGS IN CONFORMANCE WITH ACI 315.
- 12. MAINTAIN CONCRETE ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF SEVEN DAYS AFTER PLACEMENT.

#### STRUCTURAL MASONRY NOTES

- 1. PERFORM ALL MASONRY WORK IN ACCORDANCE WITH CHAPTER 21 OF THE IBC, AND ALL REFERENCED STANDARDS.
- 2. USE MASONRY COMPONENT AND DESIGN COMPRESSIVE STRENGTHS AS SHOWN BELOW:

COMPONENT	REQUIRED STRENGTH	MATERIAL NOTES
CMU BLOCKS	F' <sub>cmu</sub> = 3,250 PSI (MIN)	ASTM C-90, NORMAL WEIGHT
MORTAR	F' <sub>m</sub> = 1,800 PSI (MIN)	ASTM C-270, TYPE S OR M
GROUT	F' <sub>g</sub> = 2,500 PSI (MIN)	ASTM C-476
MASONRY ASSEMBLY	F' <sub>m</sub> = 2,500 PSI	NET AREA COMPRESSIVE STRENGTH

- A. USE CLEAN, ANGULAR, WELL-GRADED SAND AGGREGATES FREE FROM DETRIMENTAL AMOUNTS OF DUSTS, LUMPS, SHALE AND ALKALI OR ORGANIC MATERIAL. REFER TO ASTM C144 FOR MORTARS AND ASTM C404 FOR GROUTS.
- B. VERIFY THE SPECIFIED COMPRESSIVE STRENGTH OF MASONRY WITH THE UNIT STRENGTH METHOD OR THE PRISM TESTING METHOD IN ACCORDANCE WITH TMS 602.
- 3. USE REINFORCING STEEL CONFORMING TO ASTM A615 OR A706, GR 60. DETAIL REINFORCING IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI STANDARD OF PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES.
- 4. SPLICE REINFORCING STEEL WHERE INDICATED. LAP REINFORCING STEEL AT SPLICES A MINIMUM OF (48) BAR DIAMETERS, UNLESS NOTED OTHERWISE. WHERE CLEAR DISTANCE BETWEEN BARS AT ADJACENT SPLICES IS 3 INCHES OR LESS, INCREASE LAP LENGTH BY 30 PERCENT UNLESS SPLICES ARE STAGGERED AT LEAST (24) BAR DIAMETERS.
- 5. ENSURE A MINIMUM OF 1" OF GROUT COVER AROUND REINFORCING STEEL, ANCHOR BOLTS, AND INSERTS PENETRATING THE MASONRY SHELL.
- 6. PROVIDE NOT LESS THAN 1/2" OF GROUT BETWEEN MASONRY UNITS AND REINFORCING STEEL, AND BETWEEN PARALLEL REINFORCING NOT LESS THAN 1 INCH OR ONE BAR DIAMETER, WHICHEVER IS LARGER.
- 7. GROUT ALL CELLS SOLID, UNLESS NOTED OTHERWISE
- CLEANOUTS ARE REQUIRED AT ALL CELLS TO RECEIVE GROUT TO THOROUGHLY INSPECT FOR AND CLEAR DEBRIS.
- 9. CONSOLIDATE ALL GROUT POURS WITH MECHANICAL VIBRATION.
- 10. LIMIT ALL GROUT LIFTS TO 5' 4" IN 4 HOUR INCREMENTS, UNLESS THE CONDITIONS OF TMS 602-16 SECTION 3.5D HAVE BEEN MET.
- 11. PROVIDE ADEQUATE TEMPORARY BRACING, AS REQUIRED, DURING CONSTRUCTION TO WITHSTAND LATERAL LOADS AND THE HYDROSTATIC PRESSURES OF FLUID GROUT.
- 12. PROVIDE CONTROL JOINTS IN CMU WALLS, MATCH EXISTING LOCATIONS.
- 13. PLACE ALL MASONRY IN A ½ UNIT RUNNING BOND PATTERN, UNLESS NOTED OTHERWISE. PLACE CELLS IN VERTICAL ALIGNMENT. USE CLOSED-END UNITS AT CORNERS. OPENINGS AND END-WALLS.

#### STRUCTURAL CONCRETE ANCHOR NOTES

- 1. USE THE FOLLOWING POST INSTALLED ANCHORS OR APPROVED EQUALS:
- A. ADHESIVE ANCHORS: HILTI HIT-RE 500 V3 EPOXY

B. REBAR EMBED: HILTI HIT-RE 500 V3 EPOXY, OR

HILTI HIT-HY-200

C. EXPANSION ANCHORS: HILTI KWIK BOLT-TZ SS304 OR 316

D. THE SIZE, ORIENTATION, SPACING, AND ADDITIONAL REQUIREMENTS AS INDICATED ON THE DRAWINGS.

- 2. MEET THE MINIMUM EMBEDMENT, EDGE DISTANCE AND SPACING REQUIREMENTS OF THE APPLICABLE ICC-ES REPORT FOR POST INSTALLED CONCRETE ANCHORS AND INSERTS.
- 3. DO NOT CUT OR DAMAGE EXISTING REINFORCING STEEL WHEN PLACING POST INSTALLED ANCHORS INTO EXISTING CONCRETE.
- 4. DO NOT SUBSTITUTE CAST-IN-PLACE BOLTS AND RODS WITH POST-INSTALLED ANCHORS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
- 5. USE HOT-DIPPED GALVANIZED OR STAINLESS ANCHORS WHEN EXPOSED TO EXTERIOR OR DAMP CONDITIONS, IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- 6. INSTALL AND TEST POST INSTALLED ANCHORS IN ACCORDANCE WITH CHAPTER 17 OF THE CURRENT IBC CODE AND THE APPLICABLE ICC-ES REPORT

**REVISIONS** 

7. PERFORM ALL TESTING IN THE PRESENCE OF THE PROJECT INSPECTOR OF RECORD.

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PROJECT No. 10315.24002

S-002

#### **SPECIAL INSPECTION NOTES**

- 1. ALL SPECIAL INSPECTIONS AND REPORTING REQUIREMENTS PER SECTION 1704 OF THE IBC AND REFERENCED STANDARDS, INCLUDING THE TASKS OUTLINED IN THE TABLES ON THIS SHEET, SHALL BE PROVIDED.
- 2. THE OWNER OR OWNER'S AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY QUALIFIED AGENCIES TO PROVIDE SPECIAL INSPECTION AND TESTS FOR THE WORK SPECIFIED IN SECTION 1705 OF THE IBC. SPECIAL INSPECTION AGENCIES SHALL BE QUALIFIED PER 1704.2.1 OF THE IBC.
- 3. THE SPECIAL INSPECTORS SHALL, AT A MINIMUM, PROVIDE SPECIAL INSPECTION REPORTS TO THE BUILDING OFFICIAL, OWNER OR OWNER'S AUTHORIZED AGENT, ARCHITECT, AND THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE NOTICE OF THE CONTRACTOR, OWNER OR OWNER'S AUTHORIZED AGENT, ARCHITECT, AND THE ENGINEER OF RECORD.
- 4. THE SPECIAL INSPECTORS SHALL SUBMIT A FINAL SIGNED REPORT DOCUMENTING ALL SPECIAL INSPECTIONS AND TESTS, AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS OR TESTS.
- 5. QUALITY ASSURANCE AS REQUIRED BY TABLES ON THIS SHEET SHALL BE THE RESPONSIBILITY OF THE OWNER'S REPRESENTATIVE. QUALITY CONTROL AS REQUIRED BY THE SPECIAL INSPECTION SCHEDULES SHALL BE PROVIDED BY THE FABRICATOR AND/OR ERECTOR.
- 6. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS OF ADVANCE NOTICE PRIOR TO A REQUIRED SPECIAL INSPECTION AND PROVIDE ACCESS TO THE SITE AS REQUIRED FOR THE SPECIAL INSPECTOR TO COMPLETE THEIR WORK.
- 7. THE COST OF ANY REINSPECTION REQUIRED DUE TO CONSTRUCTION ERROR IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 8. DEFINITIONS:
- A. QC QUALITY CONTROL, TO BE PROVIDED BY THE FABRICATOR AND ERECTOR, PER AISC 360 CHAPTER N.1.
- B. QA QUALITY ASSURANCE, TO BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION, BUILDING CODE, PURCHASER, OWNER, OR ENGINEER OF RECORD, PER AISC 360 CHAPTER N.1
- C. O OBSERVE THESE ITEMS ON A RANDOM BASIS, OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
- D. P PERFORM THESE TASKS FOR EACH JOINT OR MEMBER
- E. D DOCUMENT INSPECTION ACTIVITIES.
- F. FREQUENCY
  - a. P PERIODIC
  - b. C CONTINUOUS

#### STRUCTURAL OBSERVATION NOTES

- THE OWNER OR OWNER'S AUTHORIZED AGENT SHALL EMPLOY A STRUCTURAL ENGINEER, REGISTERED IN THE STATE OF ALASKA, TO PERFORM STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH SECTION 1704.6 OF THE IBC.
- 2. PRIOR TO THE COMMENCEMENT OF OBSERVATIONS THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL, A WRITTEN STATEMENT IDENTIFYING THE FREQUENCY AND EXTENT OF STRUCTURAL OBSERVATIONS.
- 3. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

	TABLE 1 - REQUIRED SPECIAL INSPECTIONS AND TEST CONCRETE CONSTRUCTION	S OF
	REFERENCE IBC TABLE 1705.3 AND ASSOCIATED SECTIONS FROM ACI318-19	9
	REQUIRED VERIFICATION AND INSPECTION	FREQUENCY
1.	INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	Р
2.	REINFORCING BAR WELDING:	
	<ul> <li>A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;</li> <li>B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND</li> <li>C. INSPECT ALL OTHER WELDS.</li> </ul>	P P C
3.	INSPECT ANCHORS CAST IN CONCRETE.	Р
4.	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	
	<ul> <li>A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.</li> <li>B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.</li> </ul>	C P
5.	VERIFY USE OF REQUIRED DESIGN MIX.	Р
6.	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	С
7.	INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	С
8.	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	Р
9.	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	Р

	REFERENCE IBC SECTION 1705.4 AND TMS 602 SECTION 1.6	
	REQUIRED VERIFICATION AND INSPECTION	FREQUE
1.	AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COM	IPLIANCE
	A. PROPORTIONS OF SITE-PREPARED MORTAR	Р
	B. GRADE, TYPE, AND SIZE OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS.	Р
2.	PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE	
	A. GROUT SPACE	С
	B. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	С
3.	VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION	
	A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	С
	B. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	Р
	C. SIZE AND LOCATION OF STRUCTURAL MEMBERS	Р
	D. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF	
	ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	С
	E. WELDING OF REINFORCEMENT	С
	F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COL WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE	
	OVER 90°F) OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND PRISM	AS C

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SHEET TITLE:
SPECIAL IN

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DATE

PROJECT No.
10315.24002

S-003

No. Date Item

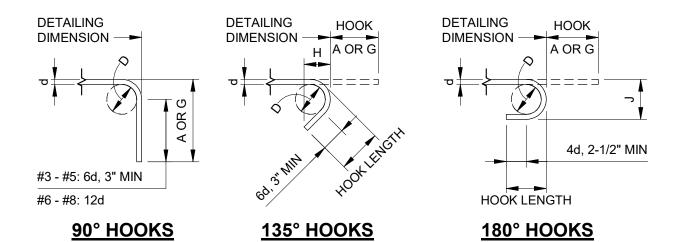
NOTES:

- 1. SCHEDULE VALUES ARE VALID FOR NORMAL WEIGHT CONCRETE WITH REBAR LAYOUTS MEETING THE REQUIREMENTS OF EITHER A, B, OR C:
- A. CLEAR SPACING AND CLEAR COVER OF BARS BEING DEVELOPED OR LAP SPLICED IS NOT LESS THAN (1) BAR DIAMETER AND WITHIN STIRRUPS OR TIES THROUGHOUT.
- B. CLEAR SPACING OF BARS BEING DEVELOPED OR LAP SPLICED IS AT LEAST (2) BAR DIAMETERS AND CLEAR COVER IS AT LEAST (1) BAR DIAMETER.
- C. LAP SPLICE LENGTHS ARE INCREASED BY 1.5.
- 2. IF EPOXY COATED REINFORCING IS USED, INCREASE LAP SPLICE LENGTH BY 1.5.
- 3. TOP BAR REFERS TO HORIZONTAL REINFORCEMENT WITH MORE THAN 1'-0" OF FRESH CONCRETE PLACED BELOW THE BAR.
- 4. OTHER REFERS TO ALL OTHER CONDITIONS NOT DEFINED AS TOP BARS.



#### TYPICAL LAP SPLICE SCHEDULE

SCALE: NO SCALE



			BEND	DIME	NSIO	SCHE	DULE					
	90° ⊦	IOOKS		135°	HOOKS		180° HOOKS					
BAR SIZE	D	A OR G	D	A OR G	Н	HOOK LENGTH	D	A OR G	J	HOOK LENGTH		
#3	2"	4-1/2"	2"	4-1/2"	2-3/4"	4-1/4"	2"	5"	2-3/4"	3-3/4"		
#4	2-1/2"	4-3/4"	2-1/2"	5"	3"	4-3/4"	2-1/2"	5-1/2"	3-1/2"	4-1/4"		
#5	3-1/4"	6"	3-1/4"	6"	3-3/4"	6"	3-1/4"	6-1/2"	4-1/2"	4-3/4"		
#6	4-1/2"	1'-0"	4-1/2"	8"	4-1/2"	7-3/4"	4-1/2"	8-1/4"	6"	6"		
#7	5-1/4"	1'-2"	5-1/4"	9"	5-1/4"	8-3/4"	5-1/4"	9-3/4"	7"	7"		
#8	6"	1'-4"	6"	10-1/2"	6"	10"	6"	11"	8"	8"		

D = FINISHED INSIDE BEND DIAMETER (INCLUDES SPRING BACK), d = BAR DIAMETER, ACI 318 MINIMUM BEND DIAMETER: #3 - #5: 4d (5d USED IN TABLE), #6 - #8: 6d



#### TYPICAL STANDARD HOOK DIMENSIONS

SCALE: NO SCALE





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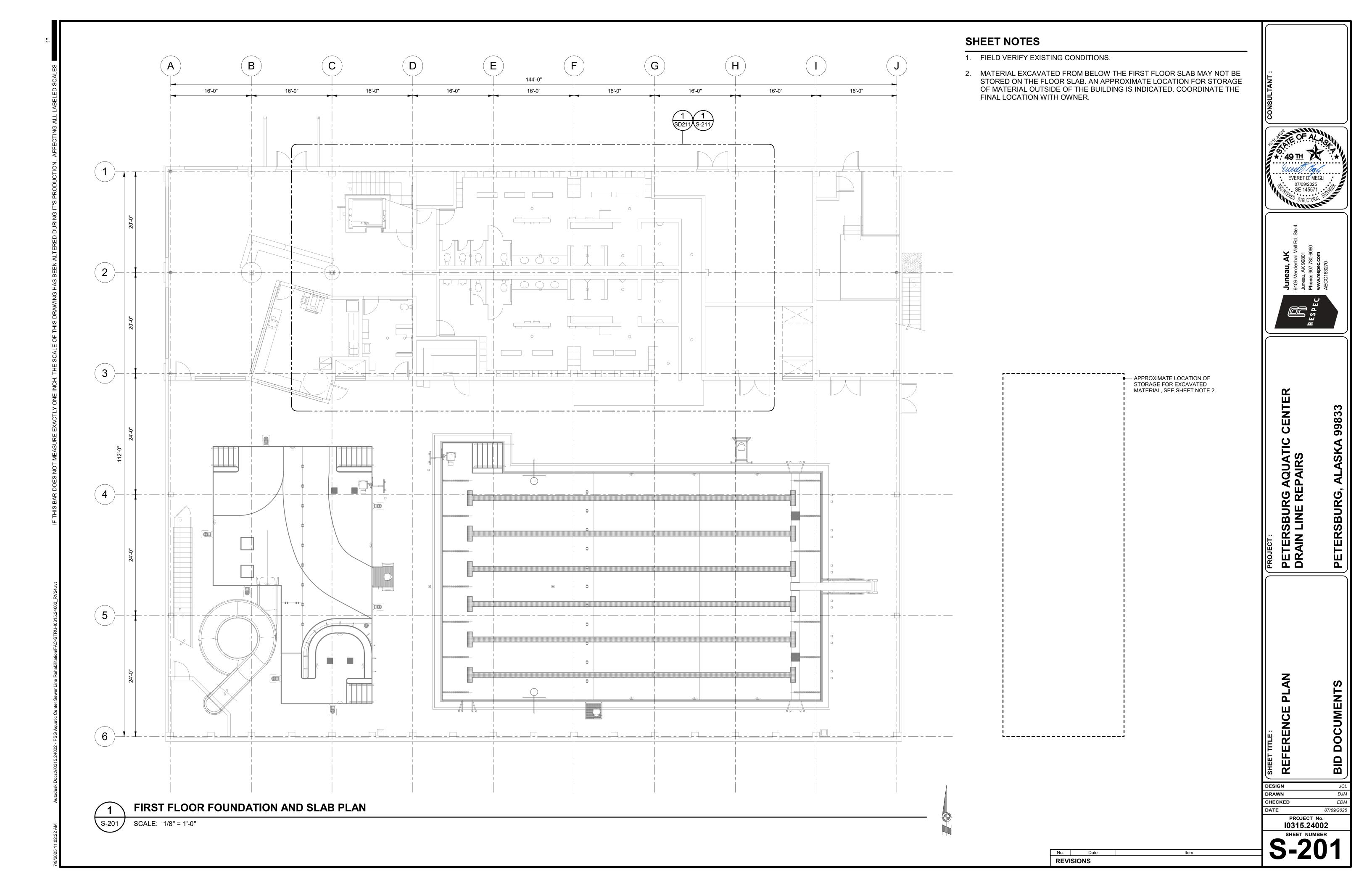
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PROJECT No. 10315.24002

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FLOOR DESCRIPTION

TYPE EXISTING 8" ELEVATED CONCRETE SLAB REINFORCED WITH #5 BARS AT 6" OC, TOP AND BOTTOM, IN SPAN DIRECTION AND #4 BARS AT 1'-6" OC IN PERPENDICULAR DIRECTION, TOP AND BOTTOM.

**SHORING AND DEMOLITION LEGEND** 

1. 8" CMU PARTITION WALL SHORING: 3. SAW CUT EXTENTS: (SEE SHEET NOTE 3)

2. 8" CMU SHEAR WALL SHORING: (SEE SHEET NOTE 4)

CHIP OUT EXTENTS: (SEE SHEET NOTE 2) 

**SHEET NOTES** 

1. FIELD VERIFY EXISTING CONDITIONS.

2. CHIP OUT EXTENTS ARE THE MAXIMUM EXTENT OF DAMAGE TO THE EXISTING FLOOR SLAB ALLOWED IN ORDER TO EXPOSE THE EXISTING SLAB REBAR FOR CONNECTION TO NEW SLAB REBAR.

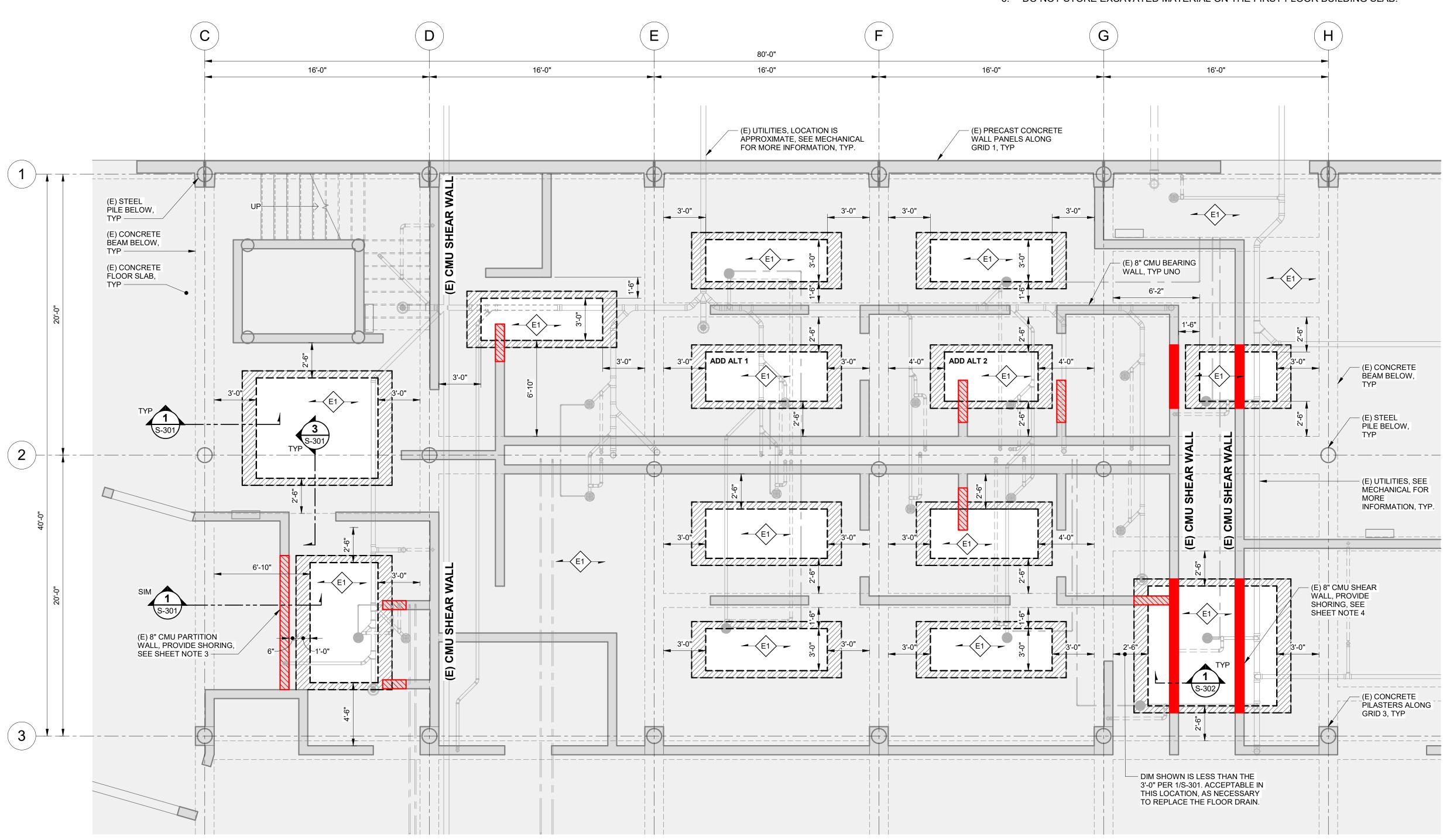
3. PROVIDE SHORING FOR ALL INDICATED EXISTING CMU WALLS AS NECESSARY TO PROTECT FROM DAMAGE. A. THE CMU WALLS MAY BE REMOVED AND REPLACED TO MATCH EXISTING AT THE CONTRACTOR'S OPTION. SEE REMOVAL AND REPAIR DETAILS ON SHEET S-302.

4. PROVIDE SHORING FOR ALL INDICATED EXISTING CMU SHEAR WALLS.

5. ADDITIVE ALTERNATES:

A. ADD-ALT 1 AND 2 ARE AREAS OF THE FIRST FLOOR SLAB WHICH MAY NEED TO BE REMOVED TO REPAIR THE EXISTING UTILITIES, SEE MECHANICAL FOR MORE DETAILS.

6. DO NOT STORE EXCAVATED MATERIAL ON THE FIRST FLOOR BUILDING SLAB.



FIRST FLOOR FOUNDATION AND SLAB PLAN - DEMOLITION

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

**REVISIONS** 



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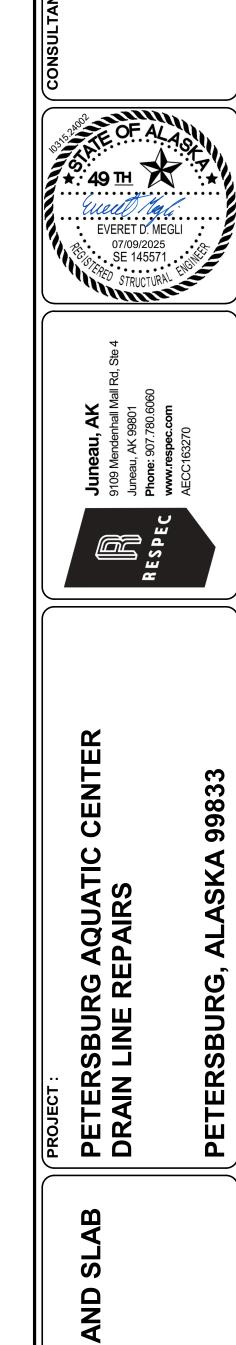
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1. FIELD VERIFY EXISTING CONDITIONS.

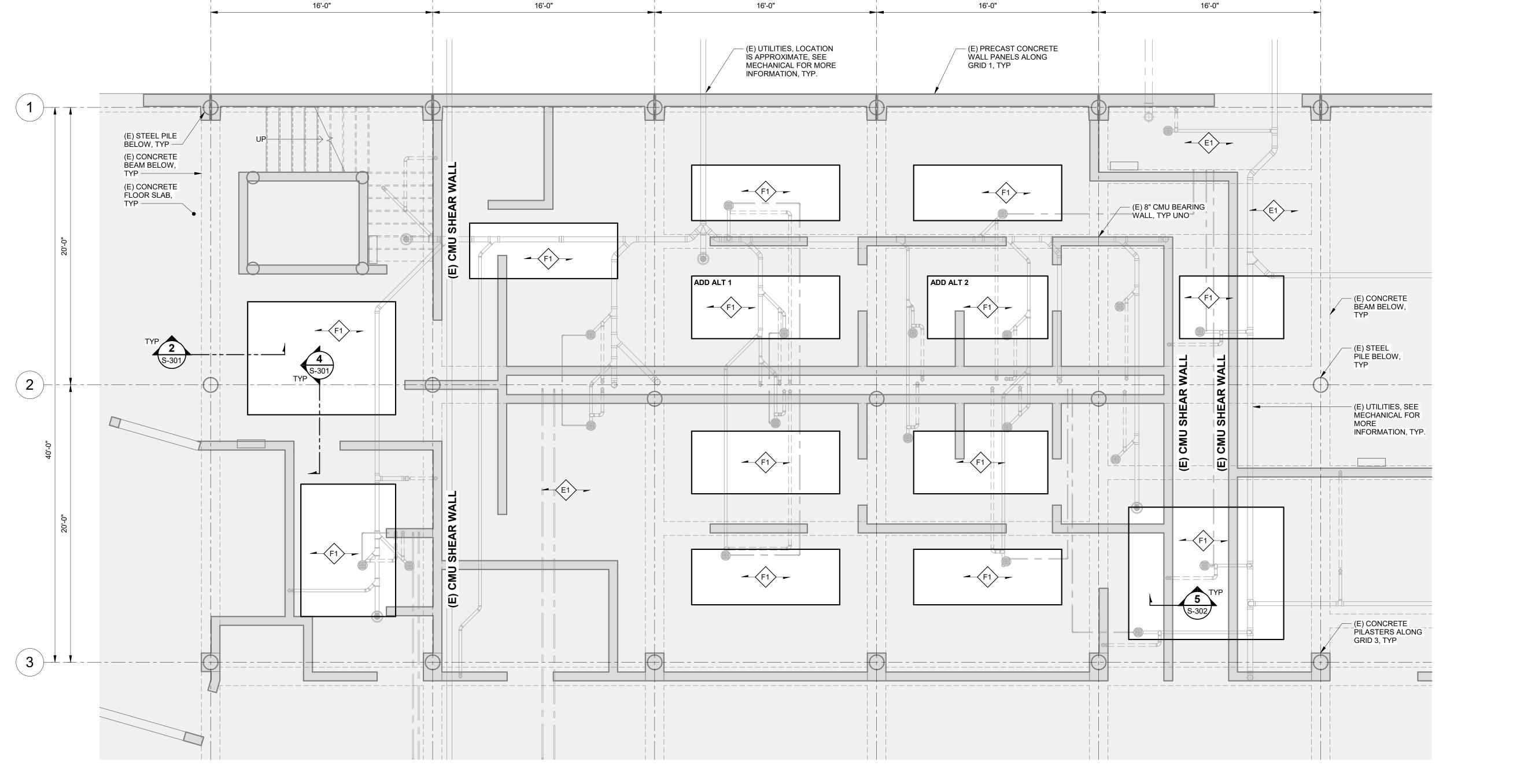
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- 2. DO NOT STORE EXCAVATED MATERIAL ON THE FIRST FLOOR BUILDING SLAB.
- 3. ADDITIVE ALTERNATES:
- A. ADD-ALT 1 AND 2 ARE AREAS WHICH MAY NEED TO BE REMOVED TO PROVIDE SUPPORT FOR THE EXISTING PIPING, SEE MECHANICAL FOR MORE DETAILS.

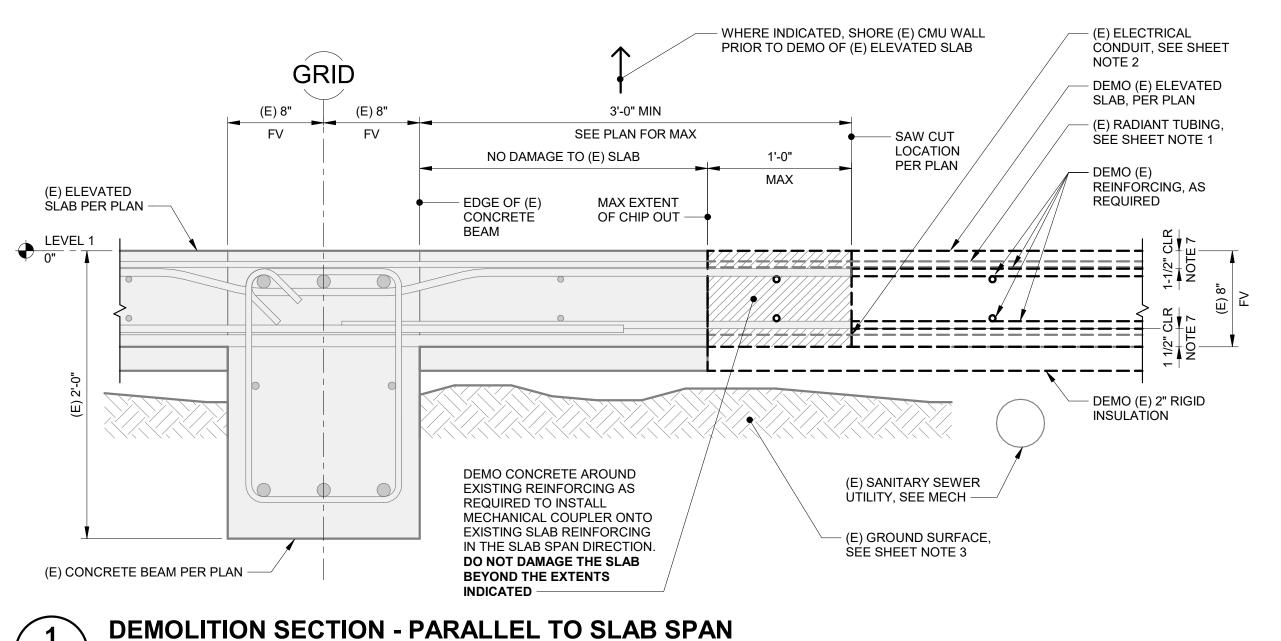
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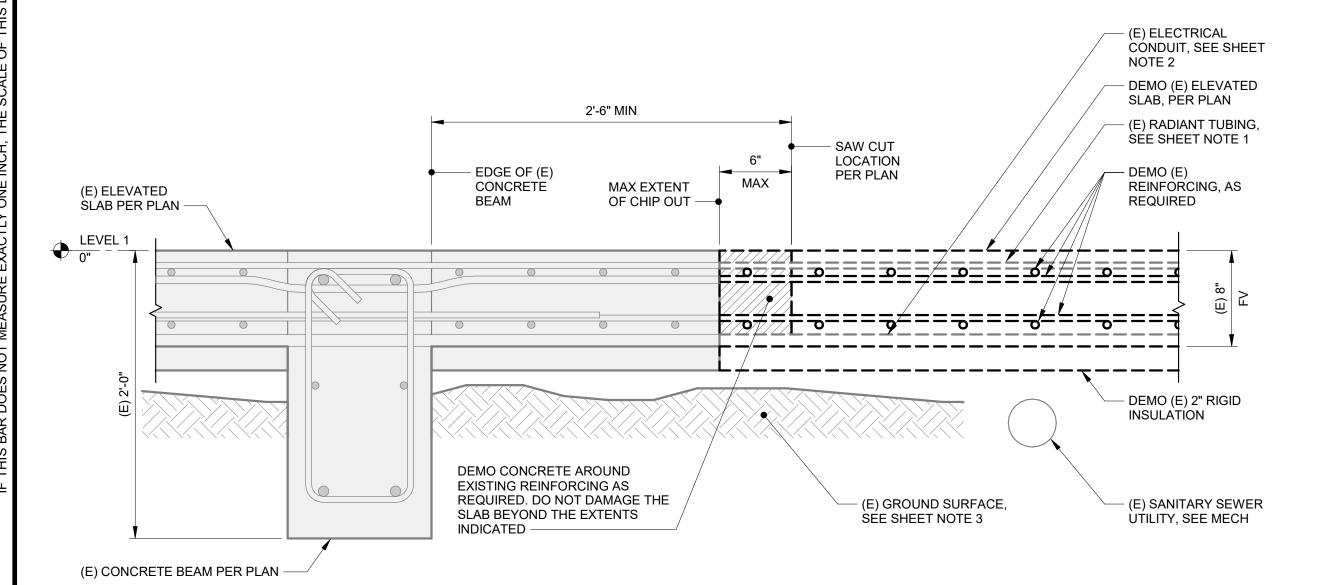
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FIRST FLOOR FOUNDATION AND SLAB PLAN SCALE: 1/4" = 1'-0"



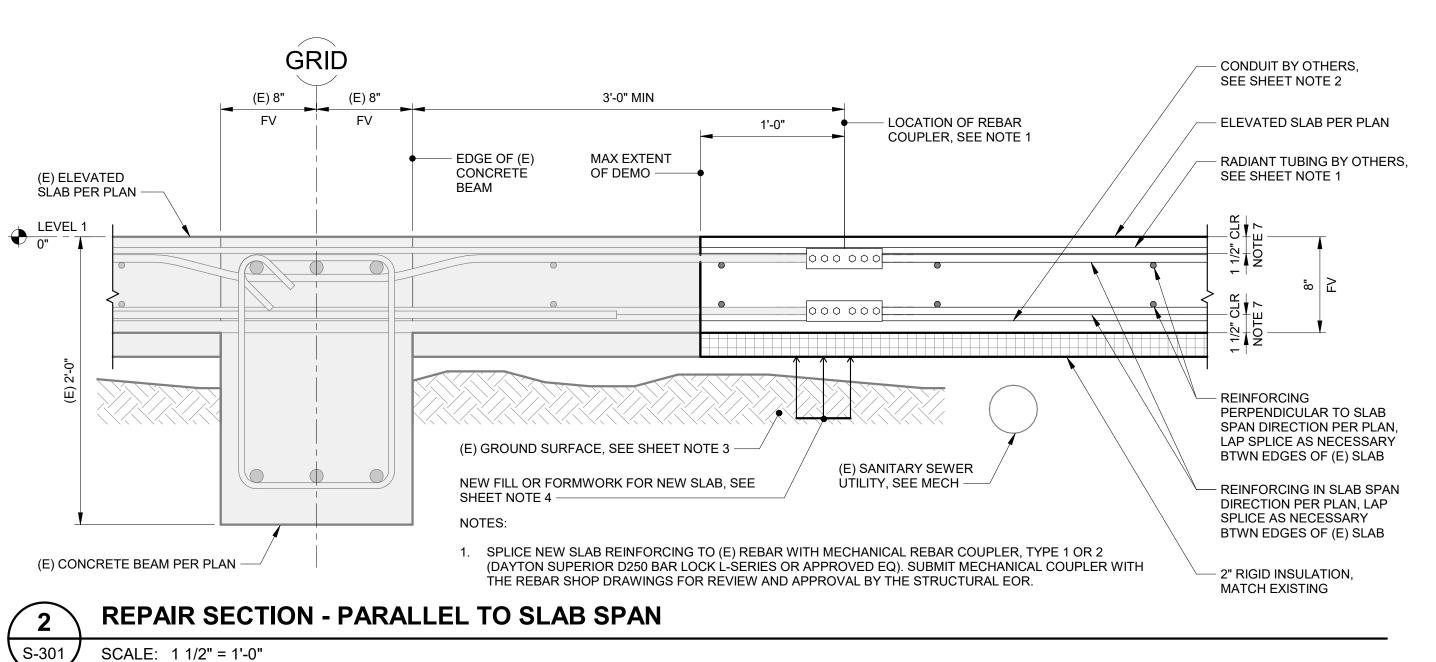
S-301 SCALE: 1 1/2" = 1'-0"



**3** S-301

#### **DEMOLITION SECTION - PERPENDICULAR TO SLAB SPAN**

SCALE: 1 1/2" = 1'-0"



3" MAX CONDUIT BY OTHERS, SEE SHEET NOTE 2 #4 DOWELS SEE TYPICAL SECTION FOR DOWEL PLACEMENT - ELEVATED SLAB PER PLAN TYPICAL LAP 8" 1 1/2" MAX - RADIANT TUBING BY OTHERS, (E) ELEVATED SEE SHEET NOTE 1 EPOXY EMBED SLAB PER PLAN -TYP SLAB SECTION AT EMBED LEVEL 1 - REINFORCING PERPENDICULAR TO SLAB SPAN DIRECTION PER PLAN, LAP SPLICE AS NECESSARY (E) GROUND SURFACE, SEE SHEET NOTE 3 — BTWN EDGES OF (E) SLAB - REINFORCING IN SLAB SPAN NEW FILL OR FORMWORK FOR NEW SLAB, SEE DIRECTION PER PLAN, LAP SHEET NOTE 4 -SPLICE AS NECESSARY (E) SANITARY SEWER BTWN EDGES OF (E) SLAB ÙŤILITY, SEE MECH —

**4** S-301

#### REPAIR SECTION - PERPENDICULAR TO SLAB SPAN

SCALE: 1 1/2" = 1'-0"

(E) CONCRETE BEAM PER PLAN

#### **SHEET NOTES**

- 1. RADIANT HEAT TUBING IS PRESENT WITHIN THE EXISTING FLOOR SLAB, SEE MECHANICAL FOR DEMO AND REPAIR DETAILS.
- 2. UTILITIES, INCLUDING BUT NOT LIMITED TO ELECTRICAL CONDUIT, ARE LOCATED IN THE EXISTING FLOOR SLAB. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES DURING DEMO AND REPAIR OPERATIONS. SEE ELECTRICAL AND MECHANICAL FOR DEMO AND REPAIR DETAILS IF UTILITES ARE ENCOUNTERED.
- 3. THE EXISTING GROUND SUFRACE MAY VARY. THE GRADE BELOW THE FLOOR SLAB MAY HAVE SETTLED SINCE IT'S ORIGINAL CONSTRUCTION. THE CONTRACTOR MUST TAKE ALL MEASURES NECESSARY TO ACCOUNT FOR THE VARIABLE SURFACE OF THE EXISTING SUBGRADE.
- . CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF FORMWORK TO SUPPORT THE NEW FLOOR SLAB.
- 5. AT EXISTING TO NEW SURFACES:
- AT EXISTING TO NEW SURFACES:

  A. ROUGHEN JOINT AND CLEAN ALL DEBRIS
- B. APPLY A BONDING AGENT BETWEEN ALL NEW AND EXISTING CONCRETE SURFACES, SIKA SIKADUR 32-HI-MOD OR APPROVED EQUAL.
- 6. EXISTING CMU WALLS NOT SHOWN IN TYPICAL DETAILS FOR CLARITY, SHEET S-301 ONLY.
- 7. MATCH EXISTING CLEAR DIMENSIONS. IF THE DIMENSION VARIES BY MORE THAN 1/2" FROM WHAT IS SHOWN, NOTIFY THE ENGINEER OF RECORD IN A TIMELY MANNER
- 8. DO NOT STORE EXCAVATED MATERIAL ON THE FIRST FLOOR SLAB.

EVERET D. MEGLI
07/09/2025
SE 145571
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Juneau, AK 99801
Phone: 907.780.6060
www.respec.com
AECC163270

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PETERSBURG DRAIN LINE R

- 2" RIGID INSULATION, MATCH EXISTING

**REVISIONS** 

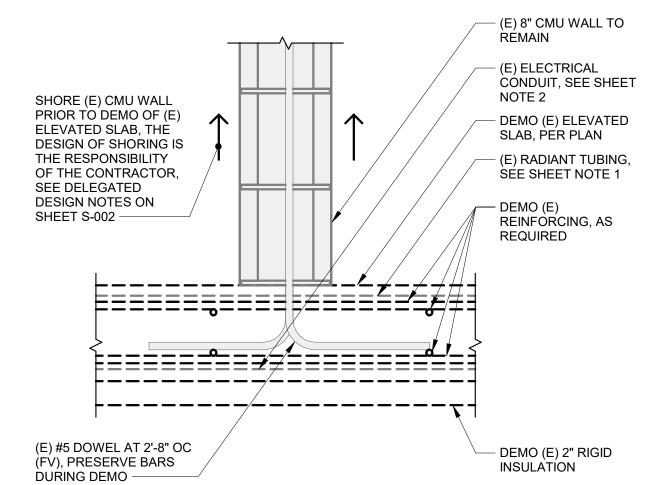
NDATION DETAILS

FOUNDATION

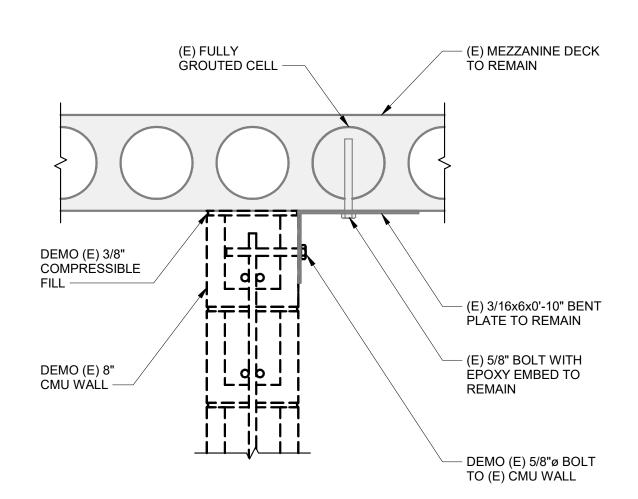
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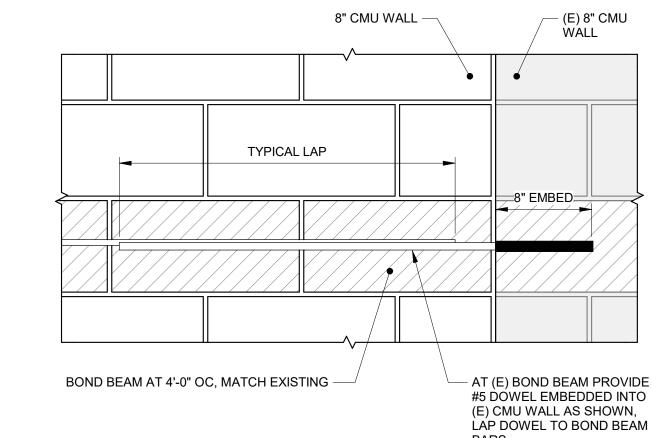
**DEMOLITION SECTION - CMU WALL SHORING** 



**DEMOLITION SECTION - CMU WALL TOP** S-302 SCALE: 1 1/2" = 1'-0"

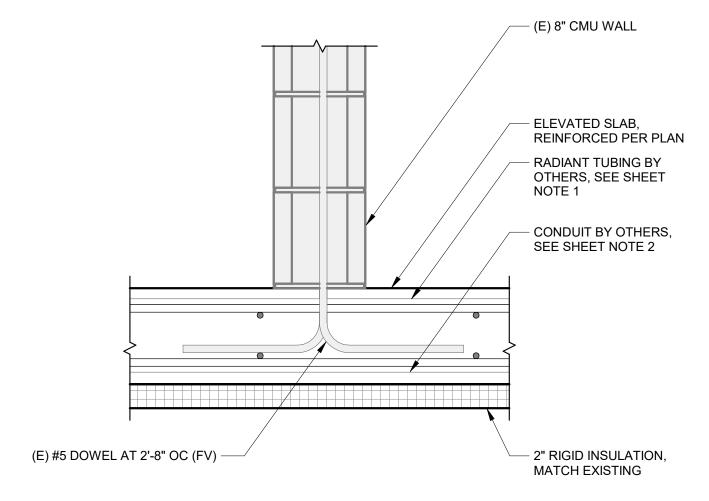
(E) FULLY (E) MEZZANINE DECK **GROUTED CELL** -COMPRESSIBLE FILL, MATCH EXISTING -- (E) 3/16x6x0'-10" BENT PLATE **BOND BEAM** WITH (2) #5 AT - (E) 5/8" BOLT WITH EPOXY TOP OF WALL EMBED AT 2'-8" OC – 5/8"ø x 6" THREADED ROD WITH EPOXY 8" CMU WALL EMBED AT 2'-8" OC, TO MATCH (E) SPACING

**REPAIR SECTION - CMU WALL TOP** S-302 SCALE: 1 1/2" = 1'-0"

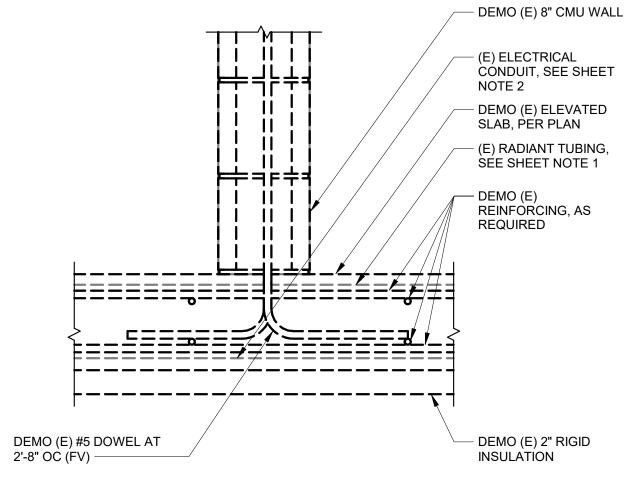


**REPAIR SECTION** 

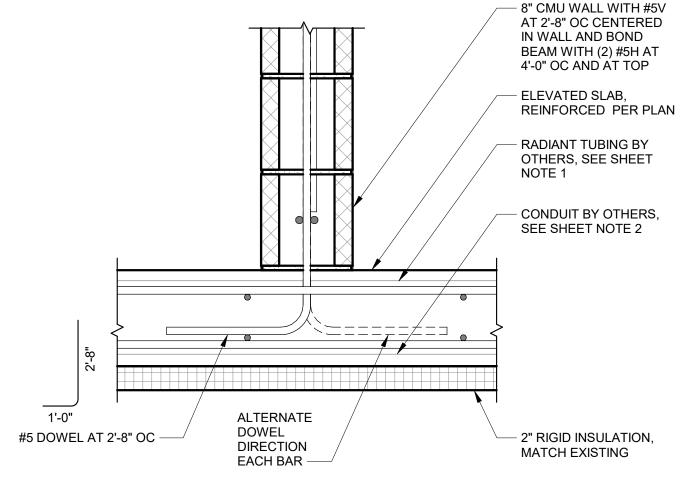
**NEW TO EXISTING CMU WALL JOINT** S-302 SCALE: 1 1/2" = 1'-0"



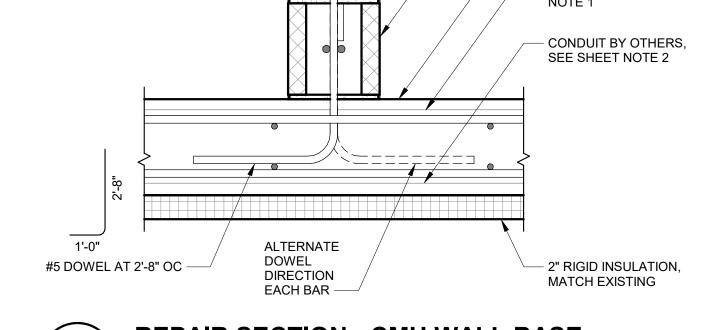
**REPAIR SECTION - CMU WALL SHORING** S-302



**DEMOLITION SECTION - CMU WALL BASE** S-302 SCALE: 1 1/2" = 1'-0"



**REPAIR SECTION - CMU WALL BASE** S-302 SCALE: 1 1/2" = 1'-0"



#### **SHEET NOTES**

- 1. RADIANT HEAT TUBING IS PRESENT WITHIN THE EXISTING FLOOR SLAB, SEE MECHANICAL FOR DEMO AND REPAIR DETAILS.
- 2. UTILITIES, INCLUDING BUT NOT LIMITED TO ELECTRICAL CONDUIT, ARE LOCATED IN THE EXISTING FLOOR SLAB. THE CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES DURING DEMO AND REPAIR OPERATIONS. SEE ELECTRICAL AND MECHANICAL FOR DEMO AND REPAIR DETAILS IF UTILITES ARE ENCOUNTERED.
- 3. THE EXISTING GROUND SUFRACE MAY VARY. THE GRADE BELOW THE FLOOR SLAB MAY HAVE SETTLED SINCE IT'S ORIGINAL CONSTRUCTION. THE CONTRACTOR MUST TAKE ALL MEASURES NECESSARY TO ACCOUNT FOR THE VARIABLE SURFACE OF THE EXISTING SUBGRADE.
- 4. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF FORMWORK TO SUPPORT THE NEW FLOOR SLAB.
- 5. AT EXISTING TO NEW SURFACES:
  - A. ROUGHEN JOINT AND CLEAN ALL DEBRIS
  - B. APPLY A BONDING AGENT BETWEEN ALL NEW AND EXISTING CONCRETE SURFACES, SIKA SIKADUR 32-HI-MOD OR APPROVED EQUAL.
- 6. EXISTING CMU WALLS NOT SHOWN IN TYPICAL DETAILS FOR CLARITY, SHEET S-301 ONLY.
- 7. MATCH EXISTING CLEAR DIMENSIONS. IF THE DIMENSION VARIES BY MORE THAN 1/2" FROM WHAT IS SHOWN, NOTIFY THE ENGINEER OF RECORD IN A TIMELY
- 8. DO NOT STORE EXCAVATED MATERIAL ON THE FIRST FLOOR SLAB.

EVERET D. MEGLI 07/09/2025 ERED STRUCTURAL ENGINEER SE 145571

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CHECKED PROJECT No.

SHEET NUMBER

10315.24002

S-302

SCALE: 1 1/2" = 1'-0"

SCALE: 1 1/2" = 1'-0"

**ROOM NAME** 

101

- DETAIL IDENTIFICATION

- DRAWING ON WHICH

SHOWN

CONTINUATION OF VIEW IS

ROOM NAME AND NUMBER DESIGNATION

SHEET KEYNOTE

GENERAL SHEET NOTE

POINT OF CONNECTION

NORTH ARROW

#### **CONSTRUCTION PHASE LINESTYLE**

TO BE DEMOLISHED -----OR RELOCATED EXISTING TO REMAIN

#### **MECHANICAL TAGS**

EQUIPMENT DESIGNATION, SEE EQUIPMENT SCHEDULE

PLUMBING FIXTURE DESIGNATION,

DESIGNATION

— EQUIPMENT

DESIGNATION

## **CODE NOTES**

SCHEDULE

- 1. ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH APPLICABLE BUILDING CODES INCLUDING THE 2021 INTERNATIONAL BUILDING CODES, 2021 INTERNATIONAL MECHANICAL CODE, 2018 UNIFORM PLUMBING CODE, NATIONAL ELECTRICAL CODE, STATE OF ALASKA, AND CITY OF PETERSBURG.
- 2. INSTALLATION OF PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH CROSS CONNECTIONS REQUIREMENTS OF CHAPTER 6 OF THE UNIFORM PLUMBING CODE AND LOCAL REQUIREMENTS.

#### **GENERAL CONSTRUCTION NOTES**

- 1. ALL PLUMBING CONSTRUCTION SHALL CONFORM TO PLUMBING & DRAINAGE INSTITUTE UNIVERSAL PLUMBING CODE STANDARDS.
- 2. PROVIDE TESTING AND BALANCING OF RADIANT HEATING SYSTEM AS INDICATED. MATCH EXISTING FLOW RATES. PROVIDE FIELD REPORT OF MANIFOLD ZONE FLOWS.
- 3. "EXHIBIT" SHEETS (EX-SERIES SHEETS) CONTAINING RECORD INFORMATION ARE PROVIDED FOR REFERENCE. FIELD VERIFY AS REQUIRED.

#### PIPE FITTINGS & VALVES

ELBOW, TURNED DOWN ELBOW, TURNED UP TEE, OUTLET DOWN TEE, OUTLET UP FLOW DIRECTION CONCENTRIC REDUCER ISOLATION VALVE BALL VALVE PRESSURE REDUCING VALVE CHECK VALVE STRAINER STRAINER W/ BLOWDOWN PRESSURE TEMPERATURE TAP ("PETE'S PLUG") AUTOMATIC FLOW CONTROL VALVE BALANCE VALVE RELIEF OR SAFETY VALVE DRAIN ISOLATION VALVE AND HOSE ADAPTOR DRAIN ISOLATION VALVE AND UNION FLANGE CONNECTION PIPE ANCHOR PIPE GUIDE METER THERMOMETER PRESSURE GAUGE W/ ISOLATION VALVE PUMP - CIRC

PUMP - INLINE

#### **ABBREVIATIONS**

ACTUAL CUBIC FEET PER MINUTE ABOVE FINISHED FLOOR AHAP AS HIGH AS POSSIBLE APPROX APPROXIMATE BRITISH THERMAL UNIT CFM CUBIC FEET PER MINUTE CIRC CIRCULATION CLNG CEILING CONT CONTINUATION, CONTINUED CIRCULATING PUMP CU COPPER CW COLD WATER (D) DIA DEMOLISH DIAMETER DN DOWN **EXISTING** (E) ÈŃT **ENTERING** EXTERNAL STATIC PRESSURE FCO FLOOR CLEANOUT FD FLOOR DRAIN GALLONS GALVANIZED GPM GALLONS PER MINUTE HW **HOT WATER** 

HWC HOT WATER CIRCULATION HWR HEATING WATER RETURN HWS HEATING WATER SUPPLY ΗZ HERTZ ID INSIDE DIAMETER INCHES LAVATORY LAV LF LINEAL FEET LEAVING

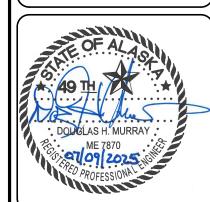
MAXIMUM THOUSAND BTU'S PER HOUR MBH MIN MINIMUM MISC NC MISCELLANEOUS NORMALLY CLOSED NO NORMALLY OPEN NO. OC NUMBER ON CENTER

PRESSURE DROP

PD PDI POC PSI PLUMBING & DRAINAGE INSTITUTE POINT OF CONNECTION POUNDS PER SQUARE INCH RAINLEADER RADIANT ZONE SA SUPPLY AIR SCH SQFT SCHEDULE SQUARE FEET SS STAINLESS STEEL **TEMP TEMPERATURE** TP TRAP PRIMER TYP **TYPICAL** 

UNDERWRITER'S LABORATORY UON UNLESS OTHERWISE NOTED VTR VENT THROUGH ROOF VR VENT RISER WASTE

WATER COLUMN WALL CLEANOUT



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DOCUMENTS

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10315.24002 SHEET NUMBER

A. COMPLETE WORK IN ACCORDANCE WITH THE 2021 EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL FUEL-GAS CODE, AND NATIONAL ELECTRICAL CODE (NEC) AND 2018 EDITIONS OF THE UNIFORM PLUMBING CODE (UPC), AS AMENDED BY THE STATE OF ALASKA, THEY CITY OF PETERSBURG, AND STANDARD APPROVED INDUSTRY PRACTICES.

- A. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW OFFSETS OR EXACT LOCATIONS OF PIPING UNLESS DIMENSIONED.
- B. REVIEW DRAWINGS AND SPECIFICATIONS FOR FEATURES AND EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION.
- C. BRING QUESTIONABLE OR CONFLICTING ITEMS TO THE IMMEDIATE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- D. CODES, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS, OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.

4. COORDINATION:

A. COORDINATE WORK UNDER THIS DIVISION WITH WORK OF OTHER TRADES TO AVOID CONFLICTS, ERRORS, AND DELAYS. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION.

5. <u>EQUIPMENT SUBSTITUTIONS:</u>

- A. SCHEDULED BASIS OF DESIGN EQUIPMENT IS REPRESENTATIVE OF THE STANDARD OF QUALITY AND PERFORMANCE REQUIRED.
- B. SUBSTITUTIONS WILL BE CONSIDERED IF THE CONTRACTOR DEMONSTRATES, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, THAT THE SUBSTITUTES ARE OF EQUAL OR BETTER QUALITY.

- A. PROVIDE PRODUCTS AND MATERIALS NEW AND UNUSED, UNLESS OTHERWISE NOTED. B. OBTAIN OWNER'S APPROVAL OF PRODUCTS AND MATERIALS PRIOR TO ORDERING OR
- INSTALLING PARTS OF SYSTEMS.

- A. PROVIDE PRODUCT SUBMITTALS FOR MATERIALS AND EQUIPMENT SHOWN ON THE DRAWINGS, DESCRIBED IN THE SPECIFICATIONS, AND REQUIRED FOR THE COMPLETION OF THE PROJECT.
- B. INCLUDE DIMENSIONS, WEIGHTS, CATALOG NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS, AND PERFORMANCE DATA FOR MATERIAL AND EQUIPMENT
- C. HIGHLIGHT DEVIATIONS FROM THESE SPECIFICATIONS OR BASIS OF DESIGN. INDEX AND IDENTIFY MATERIALS AND EQUIPMENT BY ITEM, NAME, OR DESIGNATION USED ON THE DRAWINGS.
- D. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT AND DOES NOT RELIEVE THE CONTRACTOR FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE SUBMITTAL REVIEW DOES NOT INCLUDE CHECKING FOR QUANTITY, DIMENSION, OR FOR PROPER OPERATION. PROVIDE SUBMITTALS ELECTRONICALLY IN PDF FORMAT WITH SECTIONS LABELED AND BOOKMARKED IN ALIGNMENT WITH SPECIFICATIONS.

8. RECORD DRAWINGS:

A. MAINTAIN A SET OF RECORD DRAWINGS ON THE CONSTRUCTION SITE. RECORD CHANGES ON FLOOR PLANS AND DIAGRAMS AS WORK IS COMPLETED.

**PART 2 - PRODUCTS** 

22 05 29 - HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT 1. MSS SP-58 COMPLIANT.

- 2. PIPE SUPPORT: 5/8" HILTI KWIK BOILT-TZ2 SS304 OR 316 WITH AN ATR COUPLER.
- A. PROVIDE STAINLESS STEEL SUPPORT FROM SLAB ABOVE. B. PROVIDE CONCRETE INSERTS IN NEW SLAB.
- C. PROVIDE IMPACT SCREW TYPE IN EXISTING SLAB.
- 3. PIPE HANGER TYPE: SPLIT RING.
- A. STAINLESS STEEL OR OTHER APPROVED CORROSION RESISTANT MATERIAL

22 11 00 - FACILITY WATER DISTRIBUTION

1. TRAP PRIMER PIPING:

- A. CROSSLINKED POLYETHYLENE (PEX) PIPING (INDIVIDUAL FIXTURES ONLY):
- a. PROVIDE PIPING MANUFACTURED IN ACCORDANCE WITH ASTM F876 AND ASTM F877; BY PEX-A OR ENGEL METHOD; WITH FIBER LAYER (FASER) TO RESTRICT THERMAL EXPANSION, MATCH EXISTING.
- b. PROVIDE ASTMF1960 TYPE PEX-A COLD EXPANSION FITTINGS.
- c. PROVIDE ASSEMBLY CONSISTING OF PROPEX INSERT AND CORRESPONDING PROPEX RING.
- d. PROVIDE TYPE L COPPER BODY WITH UNS 3600 SERIES BRASS PROPEX OUTLET CONNECTIONS MANIFOLDS.

22 13 00 - FACILITY SANITARY SEWER

- A. SANITARY WASTE AND VENT PIPING:
- B. PVC PIPE: ASTM D2665 OR ASTM D303, SCHEDULE 40.
- a. FITTINGS: PVC.
- b. JOINTS: ASTM D2855, SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.

<u>22 13 19.13 - SANITARY DRAINS</u>

1. FLOOR DRAIN, FD-1:

- A. PROVIDE OUTLET SAME AS CONNECTED PIPING. CAULKED OUTLET CONNECTION FOR UNDERGROUND OTHERWISE SCREWED OR CAULKED AS REQUIRED. SECURED BY COUNTER SUNK SCREWS. ANSI A1121.1; GALVANIZED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, AND ROUND, ADJUSTABLE POLISHED-BRONZE 6"X6" INCH STRAINER WITH SQUARE HOLES. WITH PRIMING LINE CONNECTION. BASIS OF DESIGN IS ZURN ZN-Z415S-G-P. PROVIDE TRAP PRIMER TAILPIECE ADAPTER.
- B. FLOOR DRAIN STRAINER TOP: SEE ABOVE.
- C. FLOOR CLEANOUT COVER: POLISHED BRONZE.
- D. CONTRACTOR TO VERIFY COMPATABILITY ONSITE.

23 83 00 - RADIANT HEATING FLOOR SYSTEMS

- 1. RADIANT FLOOR HEATING SYSTEM:
- A. SUPPLY 1/2-INCH DIAMETER UPONOR (WIRSBO) OR PEX COMPOSITE POLYETHYLENE PIPE, EXISTING TUBING IS WIRSBO HEPEX 1/2-INCH DIAMETER:
- a. LAYERED HIGH DENSITY CROSS-LINKED POLYETHYLENE, 125 PSIG OPERATING PRESSURE AT MAXIMUM 180 DEGREES F.
- b. JOINTS: ENGINEERED PLASTIC COUPLING FOR USE IN JOINING HEPEX TUBING. 210 DEGREES F MAX OPERATING TEMPERATURE.

PART 3 – EXECUTION

- A. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PER INDUSTRY STANDARDS.
- B. PROVIDE CLEARANCE IN HANGERS AND FROM STRUCTURE AND OTHER EQUIPMENT FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS. EXAMINE AREAS TO RECEIVE EQUIPMENT FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
- C. EXAMINE ROUGHING-IN FOR PIPING AND ELECTRICAL CONNECTIONS TO VERIFY ACTUAL LOCATIONS BEFORE EQUIPMENT INSTALLATION.
- D. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN

2. PIPING, VALVES, AND SPECIALTIES:

- A. PREPARE AND MAKE FUSION JOINTS ACCORDING TO MANUFACTURER'S REQUIREMENTS USING
- B. INSTALL SPECIALTIES IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

3. DRAINAGE PIPING:

- A. INSTALL SOIL, WASTE, AND FLOOR DRAINAGE PIPING RUN AS SHOWN AND WITH GRADES NOT LESS THAN 1/4 INCH PER 1 FOOT. PITCH VENT PIPING 1/4 INCH PER 10 FEET.
- B. SECURE HANGER TO CONCRETE SLAB ABOVE. COORDINATE LOCATION WITH REBAR AND RADIANT

- 4. <u>UNDERGROUND PIPING, VALVES, AND SPECIALTIES:</u>
  A. INSTALL PER MANUFACTURER WRITTEN INSTRUCTION WHERE SPECIFIC INSTALLATION IS NOT
- B. INSTALL BEGINNING AT LOW POINT OF EACH SYSTEM.
- C. INSTALL TRUE TO GRADES AND ALIGNMENTS INDICATED WITH UNBROKEN CONTINUITY OF INVERT.
- D. INSTALL REQUIRED GASKETS ACCORDING TO MANUFACTURER WRITTEN INSTRUCTION FOR USE OF LUBRICANTS, CEMENTS, AND OTHER INSTALLING REQUIREMENTS.
- E. INSTALL AT MINIMUM SLOPES UNLESS OTHERWISE NOTED AND IN ACCORDANCE WITH ASTM D2321.

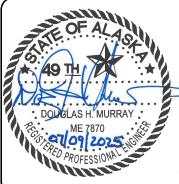
5. PIPING SYSTEM TEST AND START-UP:

- A. TEST AND CLEAN DOMESTIC WATER HEATING SYSTEMS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE AND UNIFORM PLUMBING CODE.
- B. TEST PIPING SYSTEMS IN THE PRESENCE OF THE OWNER OR OWNER'S REPRESENTATIVE.
- C. PROTECT EQUIPMENT, GAGES, CONTROLS, AND THERMOMETER WELLS DURING TESTS.
- D. TEST DRAINAGE, WASTE, AND VENT PIPING HYDROSTATICALLY BY FILLING PIPING WITH WATER TO THE HIGHEST POINT FOR A MINIMUM OF ONE HOUR.
- E. SYSTEMS SHALL REMAIN TIGHT WITHOUT LEAKS, DISPLACEMENT, OR STRAINING UNDER TESTING CONDITIONS. CORRECT DEFICIENT WORK RESULTING IN LEAKS, DISPLACEMENT, OR STRAINING AND RETEST THE SYSTEM UNTIL NO DEFICIENCIES REMAIN.

- A. SEAL WALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, AND CEILINGS WITH FIRE RATED SEALANT. INSTALL COVER PLATE WHERE EXPOSED.
- B. INSTALL INSULATED PIPES, DUCTS, OR CONDUIT WITH INSULATION BUTTED TO SURFACE.
- C. SEAL UNINSULATED PIPES, DUCTS, OR CONDUIT WITH SILICONE OR CEMENT D. FLASH AND SEAL PENETRATIONS THROUGH ROOF DECK WATERTIGHT.

7. RADIANT PIPING A. SEE SHEETS MD111 AND M111.

- B. ISOLATE AND DRAIN RESPECTIVE RADIANT MANIFOLD AND TUBING.
- C. AFTER SAW CUTTING OF SLAB COORDINATE WITH GENERAL CONTRACTOR TO CHIP AWAY CONCRETE TO EXPOSE ENOUGH EXISTING RADIANT TUBING FOR CONNECTION. CLEAN TUBING AND PREP FOR JOINING TO NEW RADIANT TUBING WITH APPROVED COUPLINGS.
- D. PROVIDE PRESSURE TESTING OF RADIANT TUBING, MAINTAIN 5 PSI DURING CONCRETE POURING







PROJECT No. 10315.24002

#### **SHEET NOTES**

1. EXISTING RADIANT TUBING IS WIRSBO HEPEX 1/2" TUBING, INSTALLED 12" OC. SHOP DRAWINGS OF THE TUBING ARE NOT AVAILABLE.

#### RADIANT PIPING RECONNECTION INSTRUCTIONS

- 1. OPEN THE MANIFOLD DRAIN VALVES TO RELEASE WATER FROM THE ZONES AS REQUIRED. FLUSH/PURGE THE TUBING SYSTEM OF WATER WITH COMPRESSED AIR. CHECK FOR DRAINAGE: MAKE SURE NO WATER IS LEFT IN THE TUBING. YOU WANT TO AVOID ANY LEFTOVER WATER DURING REPAIRS.
- 2. REMOVAL OF RADIANT TUBING: COORDINATE WITH GENERAL CONTRACTOR DURING CONCRETE SLAB REMOVAL FOR TUBING REMOVAL. SAWCUT SLAB FOR INITIAL DEMOLITION, IN AREA SHOWN. REMOVE CONCRETE, REBAR, AND TUBING. CAREFULLY CHIP CONCRETE OUT AROUND TUBING FOR APPROXIMATELY 8-12" FURTHER FROM SAW CUT FOR RECONNECTION TO EXISTING TUBING. SEE DETAIL 2 ON SHEET M-511.
- 3. USING REPAIR FITTINGS: IF THE LEAK IS AT A JOINT, CUT THE PEX TUBING ON EITHER SIDE OF THE CONNECTION. USE AN APPROVED PEX COUPLING TO CONNECT THE TUBING SECTIONS.
- 4. REPLACE DAMAGED OR REMOVED SECTIONS: IF THE TUBING SHOWS SIGNIFICANT WEAR OR DAMAGE, CUT OUT THE AFFECTED SECTION AND REPLACE IT WITH A NEW PIECE OF PEX TUBING.
- 5. TEST THE SYSTEM: ONCE REPAIRS ARE COMPLETE, REFILL THE SYSTEM WITH WATER, CHECK FOR LEAKS, AND ALLOW THE SYSTEM TO RETURN TO OPERATING TEMPERATURE. MONITOR THE AREA FOR SIGNS OF ISSUES.
- 6. MAINTAIN 3-5 PSI PRESSURE AND CONTINUOUSLY MONITOR DURING CONCRETE SLAB POUR. REPAIR TUBING AS NEEDED. PROVIDE FIELD REPORT OF TEST PRESSURES.
- 7. VERIFY PROPER OPERATION OF RADIANT TUBING HEATING SYSTEM AFTER COMPLETION AND CONTROL FROM ROOM THERMOSTAT.

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PROJECT No. 10315.24002

**OVERALL PLAN - PLUMBING** 

SCALE: 1/8" = 1'-0"

#### RADIANT PIPING RECONNECTION INSTRUCTIONS

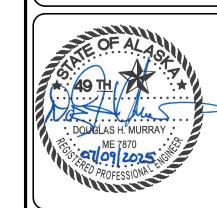
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- 3. USING REPAIR FITTINGS: IF THE LEAK IS AT A JOINT, CUT THE PEX TUBING ON EITHER SIDE OF THE CONNECTION. USE AN APPROVED PEX COUPLING TO CONNECT THE TUBING SECTIONS.
- 4. REPLACE DAMAGED OR REMOVED SECTIONS: IF THE TUBING SHOWS SIGNIFICANT WEAR OR DAMAGE, CUT OUT THE AFFECTED SECTION AND REPLACE IT WITH A NEW PIECE OF PEX TUBING.
- 5. TEST THE SYSTEM: ONCE REPAIRS ARE COMPLETE, REFILL THE SYSTEM WITH WATER, CHECK FOR LEAKS, AND ALLOW THE SYSTEM TO RETURN TO OPERATING TEMPERATURE. MONITOR THE AREA FOR SIGNS OF ISSUES.
- 6. MAINTAIN 3-5 PSI PRESSURE AND CONTINUOUSLY MONITOR DURING CONCRETE SLAB POUR. REPAIR TUBING AS NEEDED. PROVIDE FIELD REPORT OF TEST PRESSURES.
- 7. VERIFY PROPER OPERATION OF RADIANT TUBING HEATING SYSTEM AFTER COMPLETION AND CONTROL FROM ROOM THERMOSTAT.

#### **SHEET NOTES**

- 1. DEMO CONCRETE SLAB PER STRUCTURAL PLANS AS NECESSARY FOR WORK. EXCAVATE, BACKFILL, AND REPAIR CONCRETE SLAB PER STRUCTURAL DRAWINGS.
- 2. CONTRACTOR RESPONSIBLE FOR LOCATING EXISTING UNDERGROUND PIPING AND UNDERGROUND ELECTRIC. VERIFY INVERT ELEVATIONS OF PIPING AND CONNECTION POINTS PRIOR TO DEMOLITION.
- 3. UNDERGROUND PIPING IS EXISTING EXCEPT WHERE SHOWN AS DEMOLISHED OR NEW.
- 4. RADIANT TUBING SHOP DRAWINGS ARE NOT AVAILABLE. EXISTING RADIANT TUBING IS 1/2-INCH DIAMETER AND 12" ON CENTER.
- 5. ELECTRICAL CIRCUITING TO POWER OUTLETS IS LOCATED UNDERGROUND IN PLASTIC CONDUIT LIKELY AT BOTTOM OF SLAB. SEE ELECTRICAL REFERENCE DRAWINGS FOR CIRCUIT IDENTIFICATION. IDENTIFY AND DEENERGIZE RESPECTIVE CIRCUITS PRIOR TO DEMOLITION OF SLAB.
- 6. CONTRACTOR IS TO BE PREPARED TO REPAIR/REPLACE ANY DMAGED CONDUITS. THERE ARE NO AS-BUILT RECORDS OF ELECTRICAL ROUTES.

#### SHEET KEYNOTES (#)

- DEMO FLOOR DRAIN IN SLAB.
- ALTERNATE WORK: DEMOLISH IF NECESSARY TO COMPLETE BASE WORK.
- 3. WHERE DEMO OF CONCRETE NOT REQUIRED AND (E) DRAINS AND CLEANOUTS LEFT IN PLACE, PROVIDE SLOPED LEVELING COMPOUND PER DETAIL 2/A-111. REPLACE FLOOR DRAIN GRATE AND CLEAN OUT COVERS LEVEL WITH FLOOR.
- 4. DEMO SECTION OF WASTE PIPE AND CLEAR OUT GRAVEL BLOCKAGE.





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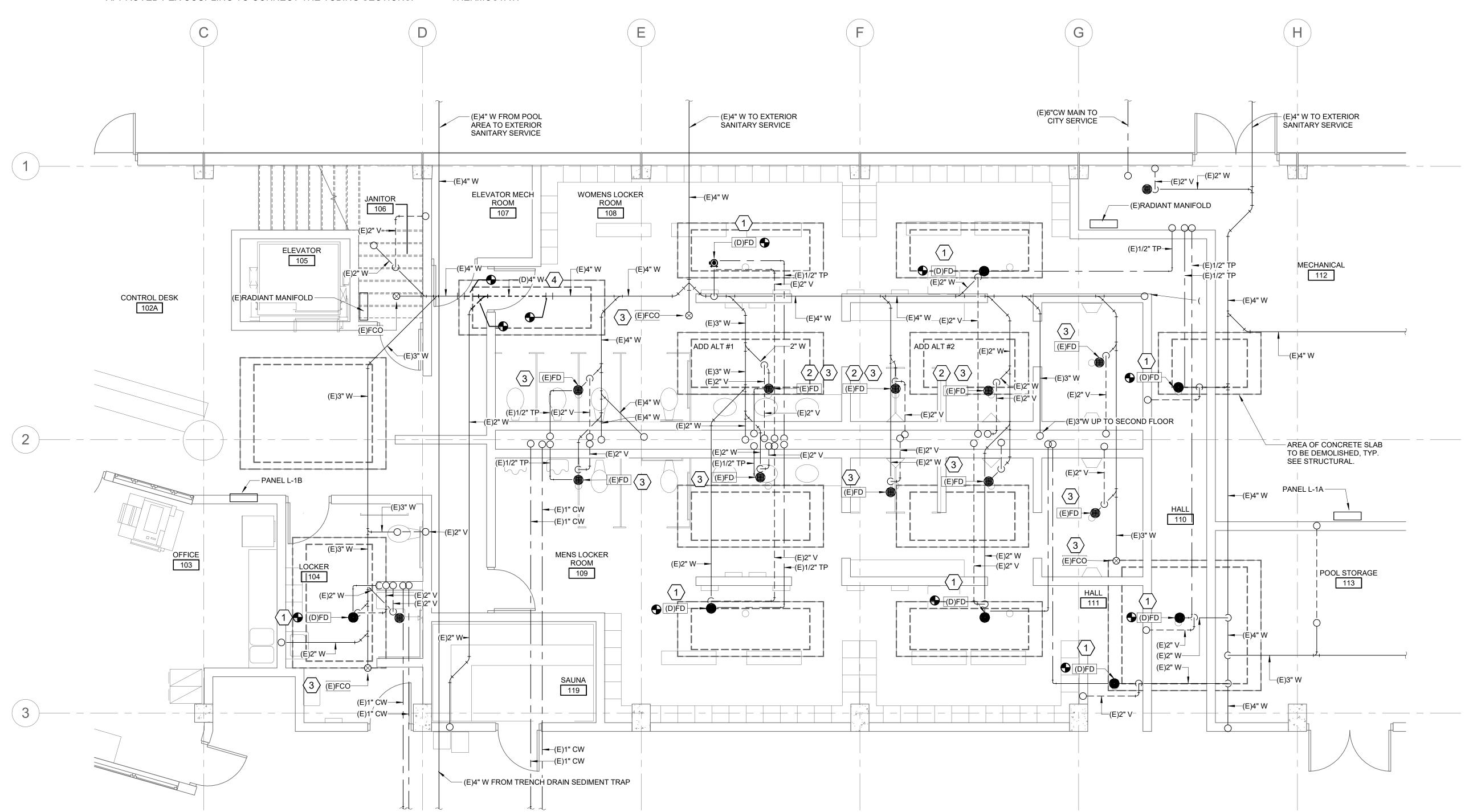
R PLAN - PLUMBING -

FIRST FLOOR PL DEMOLITION

DRAWN
CHECKED
DATE 07/
PROJECT No.
10315.24002

SHEET NUMBER

MD11'



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FIRST FLOOR PLAN - PLUMBING - DEMOLITION

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

No. Date REVISIONS

#### **SHEET NOTES** 1. REPLACE UNDERGROUND WASTE, VENT, AND TRAP 1. REPLACE FLOOR DRAIN CONNECT TO EXISTING PRIMER PIPING AS NECESSARY IN ORDER TO WASTE PIPING. SECURE EXISTING FLOOR CONNECT TO EXISTING FLOOR DRAINS. LOCATION DRAIN WASTE PIPING TO SLAB. SEE DETAIL ON OF UNDERGROUND PIPING SHOWN IS NOT AS-BUILT SHEET M-001. BUT IS TAKEN FROM ORIGINAL CONSTRUCTION DOCUMENTS AND SUBSEQUENT RECENT SITE 2. ALTERNATE WORK: REPLACE IF NECESSARY PICTURES. TO COMPLETE BASE BID WORK. 2. SEE SHEET M-111 FOR RELATED WORK REPLACING 3. WHERE DEMO OF CONCRETE NOT REQUIRED AND REPAIRING RADIANT TUBING IN CUT SLAB AND (E) DRAINS AND CLEANOUTS LEFT IN LOCATIONS. PLACE, PROVIDE SLOPED LEVELING COMPOUND PER DETAIL 2/A-111. REPLACE 3. PRESSURE TEST AND BALANCE MODIFIED RADIANT FLOOR DRAIN GRATE AND CLEAN OUT HEATING SYSTEM AS NEEDED FOR NEW WORK. COVERS LEVEL WITH FLOOR. C D Н G (E)6"CW MAIN TO - (E)4" W FROM POOL (E)4" W TO EXTERIOR (E)4" W TO EXTERIOR CITY SERVICE SANITARY SERVICE ÀREA TO EXTERIOR SÁNITARY SERVICE SANITARY SERVICE <del>----</del>(E)4" ₩<u>.</u> (E)2" W—**→ ELEVATOR MECH** WOMENS LOCKER ROOM \_\_108\_\_ (E)RADIANT MANIFOLD 107 \_106\_ (E)4" W-**ELEVATOR →**(E)4" W (1) FD-1 (E)4" W-**MECHANICAL** (E)1/2" TP-112 (E)2" V \_\_\_\_\_= =(E)1/2" TP CONTROL DESK $\left(3\right)$ (E)FCO (E)4" W<sup>⊥</sup> (E)4" W— —(E)4" W 102A (E)RADIANT MANIFOLD (E)2" W -(E)2" W-ADD ALT #1 ADD ALT #2 ├<del>-</del>-(E)1/2" TP (E)3" W─<del>-</del> (E)2" W (E)FD —(E)2" V $\langle 3 \rangle$ (E)FD —(E)2" W (E)FD $\left\langle 2\right\rangle \left\langle 3\right\rangle$ (E)2" W (E)3" W— ∕−(E)4" W \_\_\_\_(E)1/2" TP\_\_\_ -(E)3"W UP -(E)2" W ⁻(E)2" V─<sup>|</sup> <sup>−</sup>TÓ SECOND <sup>→</sup> <del>∜</del>FLOOR<sup>+</sup> (E)2" V (E)1/2" TP-(E)2" V—— - PANEL L-1B (E)2" W-\ (E)4" W PANEL L-1A -(E)FD (E)FD (3) <u></u>(E)3" W₁ (E)2" V LOCKER 104 -(E)1/2" TP (E)3" W—<del>-</del> MENS LOCKER ROOM 109 OFFICE 103 (E)2" V (E)2" V POOL STORAGE **─**(E)4" W FD-1 1 FD-1 HALL 111 NEW REINFORCED CONCRETE SLAB, TYP. SEE STRUCTURAL (E)3" W SAUNA 119 —(E)3" W 3 (E)2" V (E)1" CW—— (E)1" CW——— – (E)4" W FROM TRENCH DRAIN SEDIMENT TRAP FIRST FLOOR PLAN - PLUMBING SCALE: 1/4" = 1'-0"

SHEET KEYNOTES (#)

REVISIONS



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FIRST FLOOR PLAN -UNDERGROUND PLUMBING

DOCUMENTS

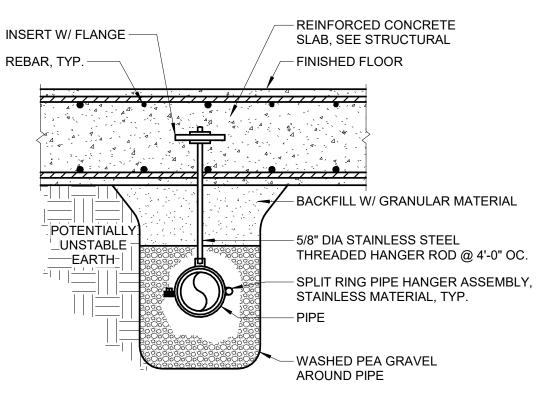
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PROJECT No. 10315.24002

NOTE: CONTRACTOR SHALL AVOID (E) STRUCTURAL REINFORCEMENT WITH POST INSTALLED ANCHOR INSTALLATION. COORDINATE LENGTH OF HANGER ROD TO MAINTAIN SLOPE OF PIPE AND CONTINUATION OF EXISTING CONNECTION POINTS.

#### **BELOW GRADE PIPE HANGER - EXISTING SLAB DETAIL**

SCALE: NOT TO SCALE

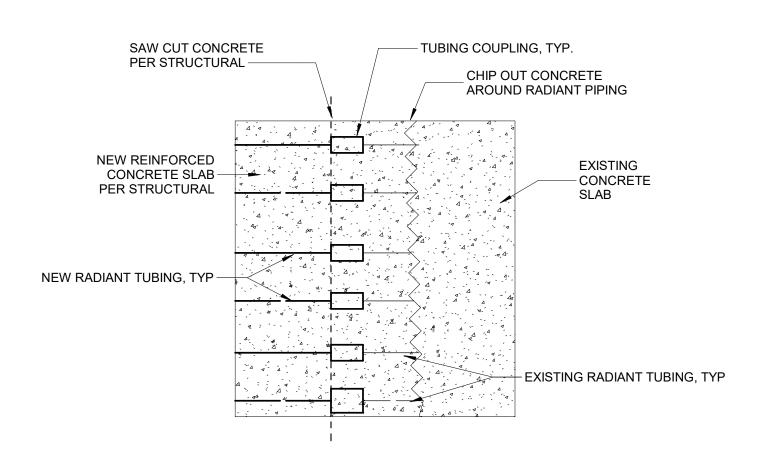


NOTE: CONTRACTOR SHALL AVOID (E) STRUCTURAL REINFORCEMENT WITH POST INSTALLED ANCHOR INSTALLATION. COORDINATE LENGTH OF HANGER ROD TO MAINTAIN SLOPE OF PIPE AND CONTINUATION OF EXISTING CONNECTION POINTS.



#### **BELOW GRADE PIPE HANGER - NEW SLAB DETAIL**

SCALE: NOT TO SCALE





#### **RADIANT PIPING CONNECTION DETAIL**

SCALE: NOT TO SCALE

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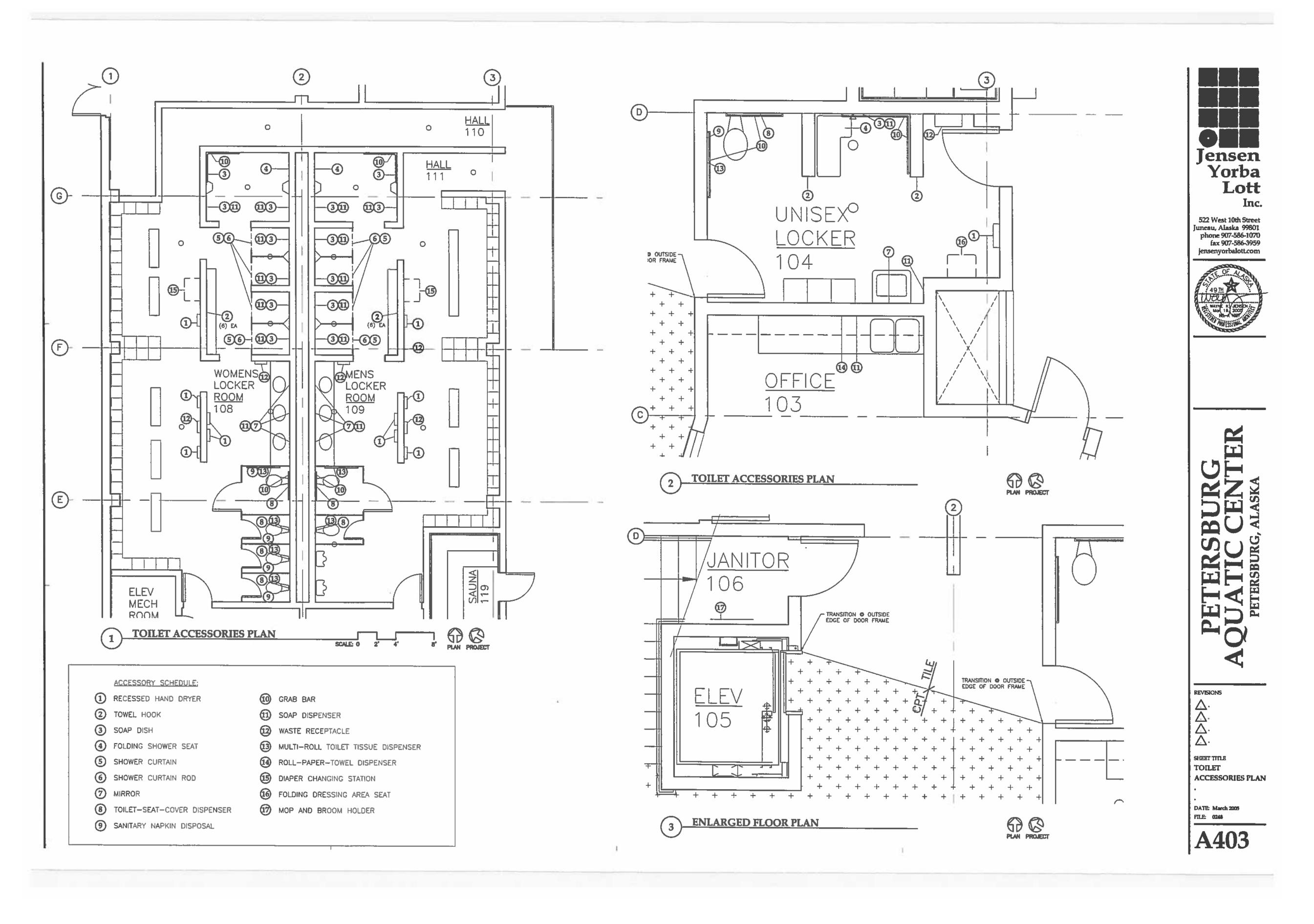
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PROJECT No. 10315.24002

SHEET NUMBER

10315.24011

No. Date REVISIONS

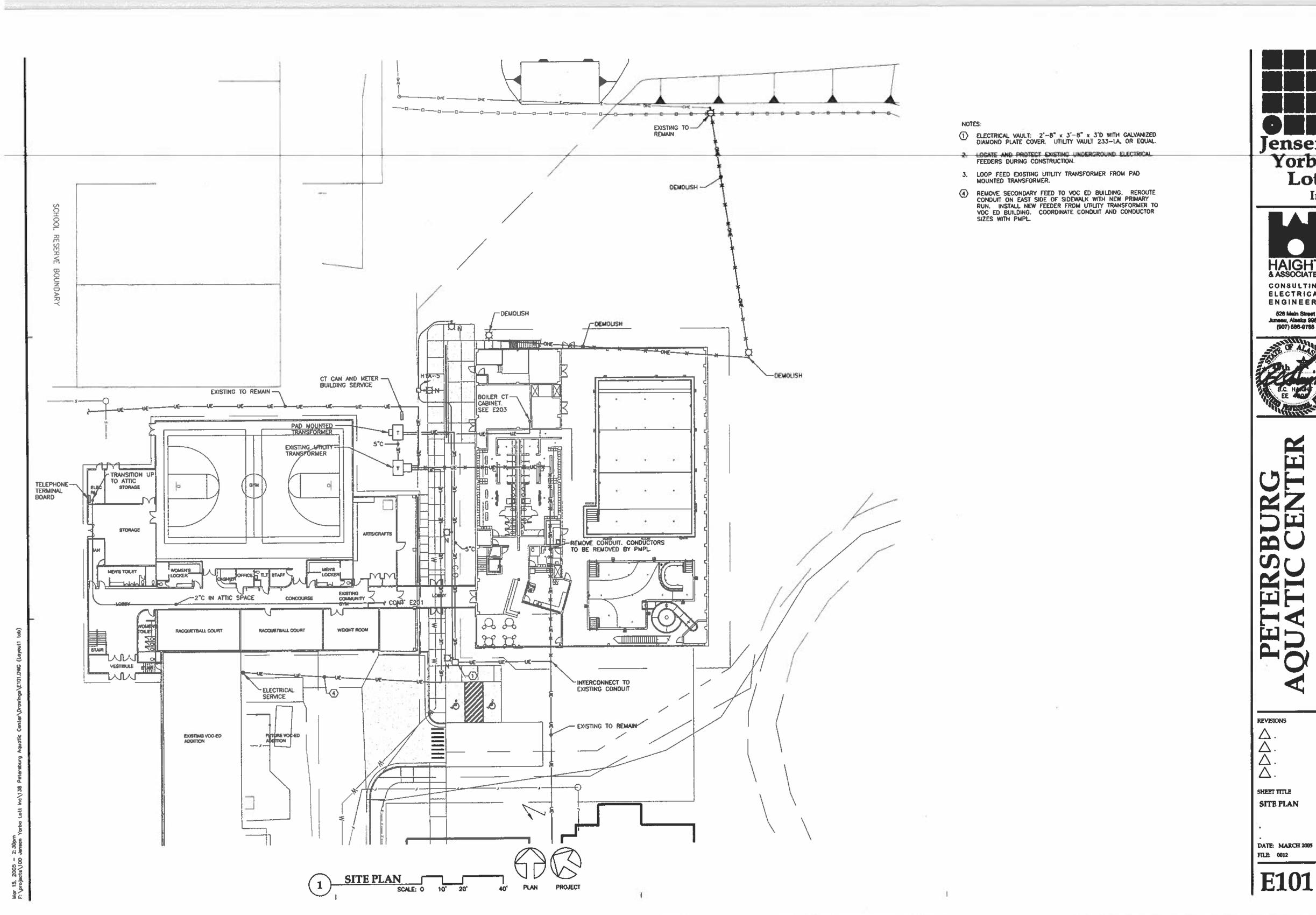


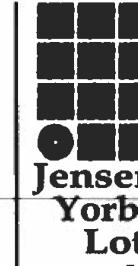
CENTER PETERSBURG AQUATIC DRAIN LINE REPAIRS

PETERSBURG,

DESIGN
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CHECKED

PROJECT No. 10315.24002 SHEET NUMBER





Jensen Yorba Lott



526 Mein Street Juneau, Alaska 99801 (907) 586-9765



**REVISIONS** 

CENTI PETERSBURG AQUATIC DRAIN LINE REPAIRS

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PETERSBURG,

DOCUMENTS

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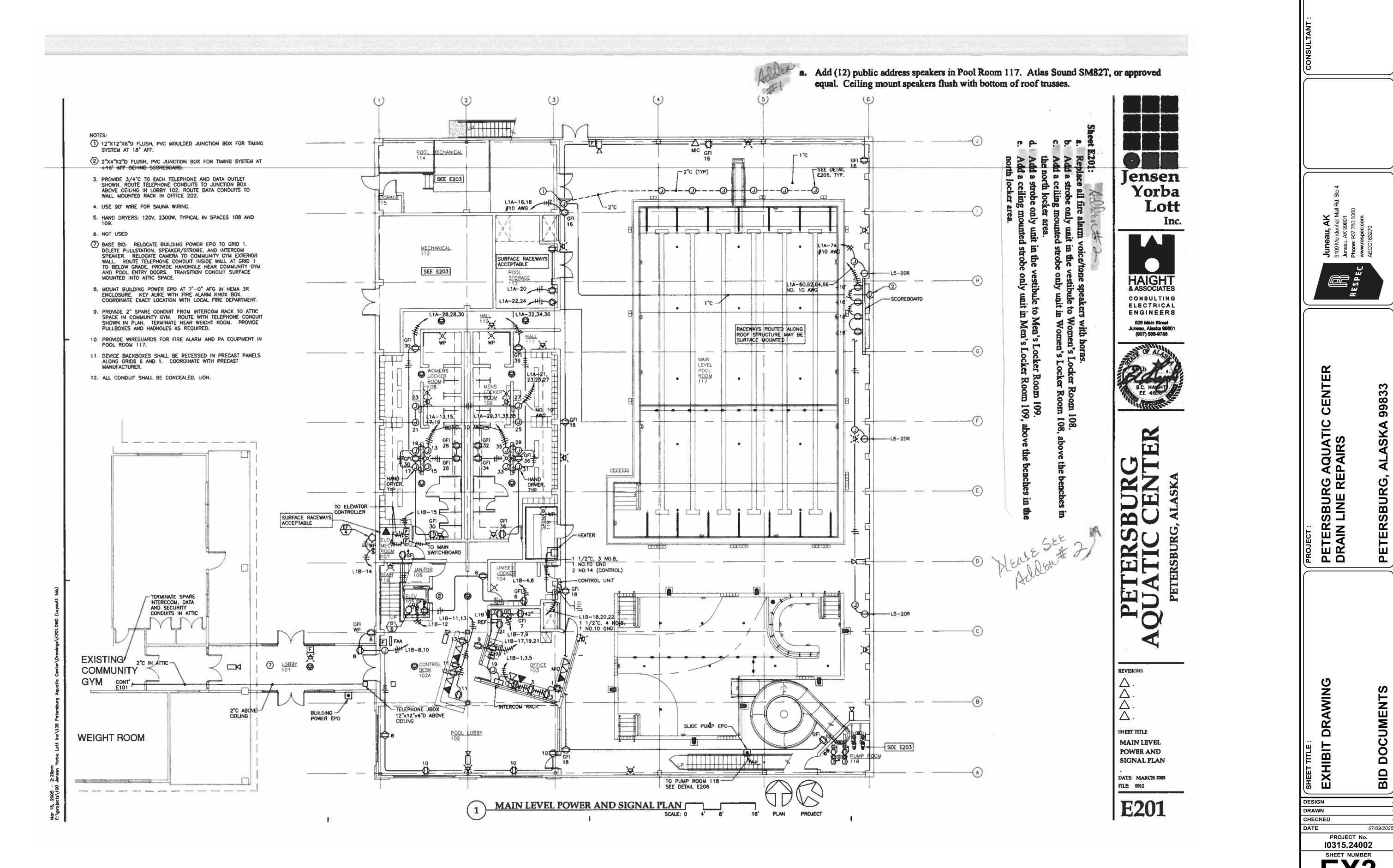
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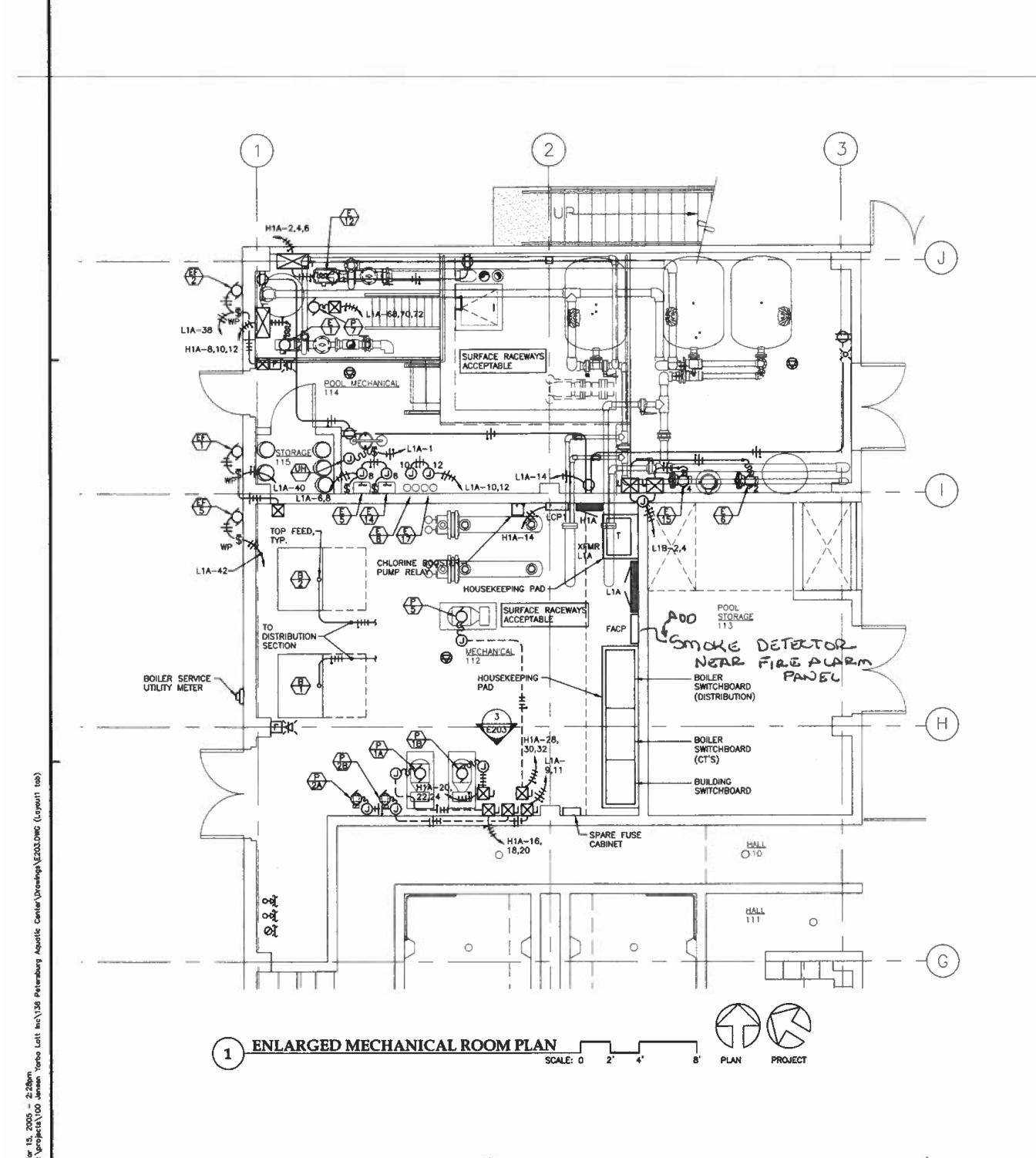
07/09/2025 PROJECT No. 10315.24002

SHEET NUMBER

EX2

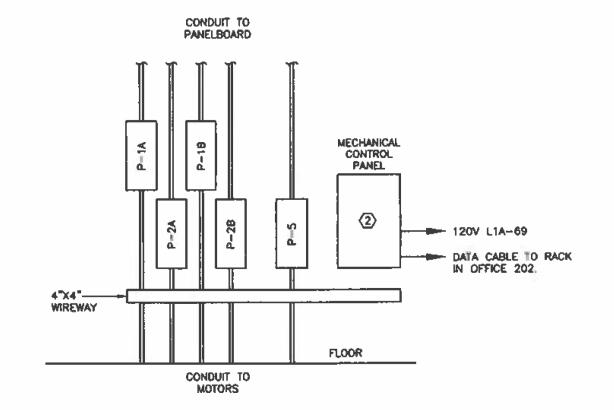


EX3

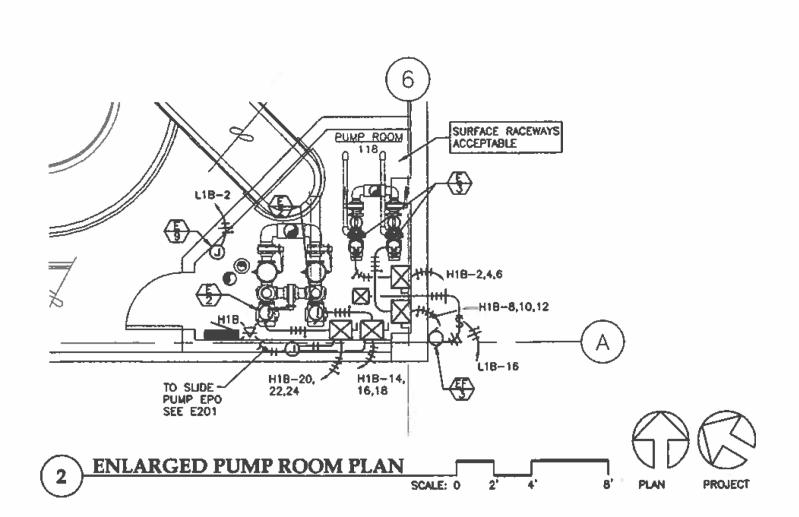


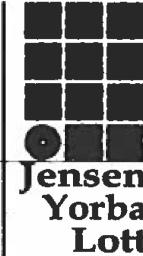
- PROVIDE CORROSION RESISTANT POLYESTER ENCLOSURES FOR ALL COMBINATION CONTROLLERS IN POOL MECHANICAL 114 AND PUMP ROOM 118.
- (2) MECHANICAL CONTROL PANEL NOT SHOWN IN PLAN.
- 3. PROVIDE (2) PHONE LINES AT FACP.

a. Replace all fire alarm voice/tone speakers with horns.



PARTIAL ELEVATION - SOUTH WALL





Jensen Yorba Lott

CONSULTING ELECTRICAL ENGINEERS





REPAIRS PETERSBUR DRAIN LINE

PETERSBURG

DESIGN
DRAWN
CHECKED
DATE

PROJECT No. 10315.24002

SHEET NUMBER

EX4

No. Da

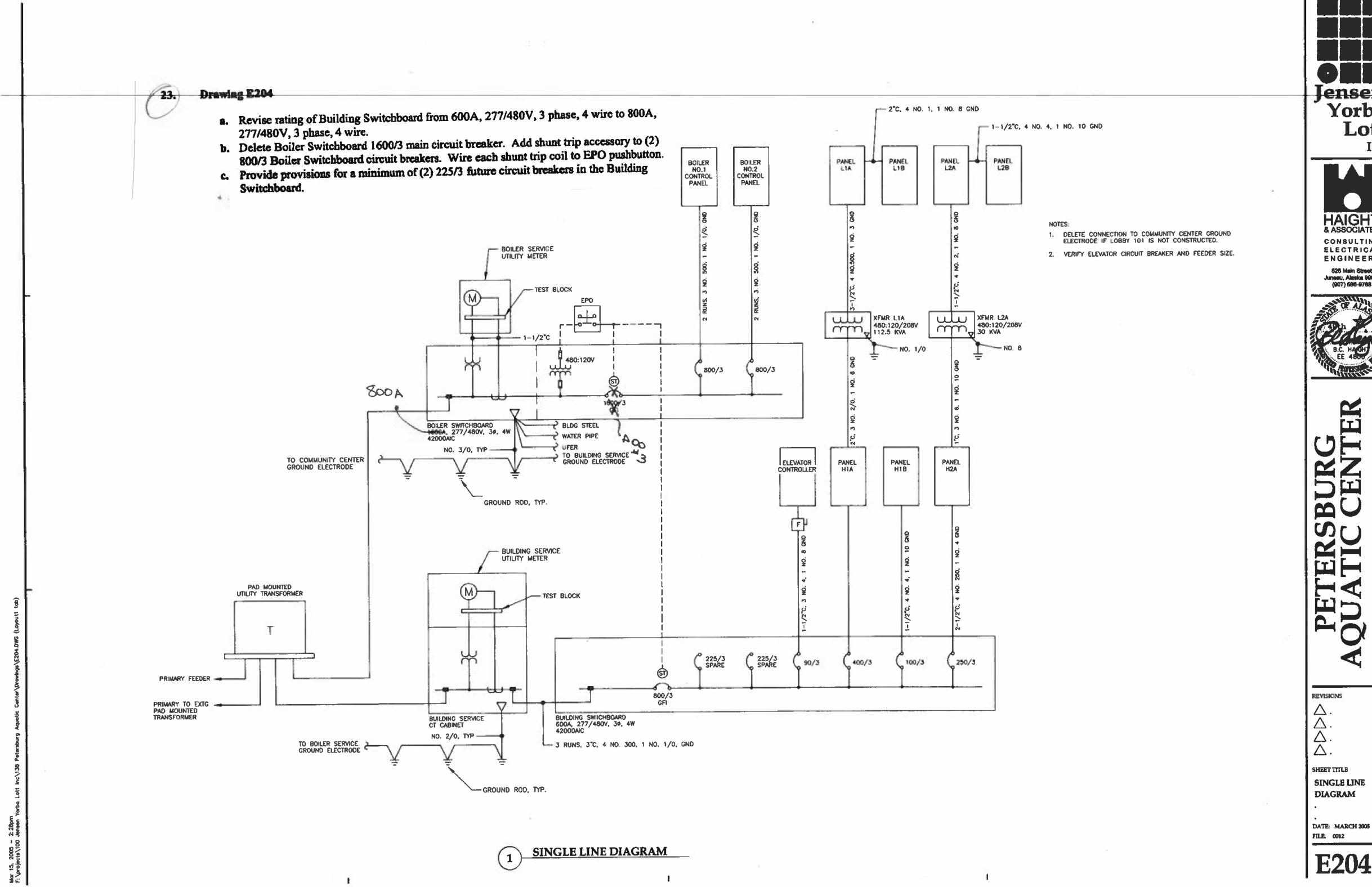
REVISIONS

SHEET TITLE

ENLARGED PLAN

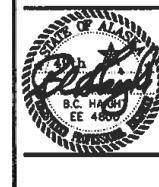
ELECTRICAL

DATE: MARCH 2005 FILE: 0012





HAIGHT & ASSOCIATES CONSULTING ELECTRICAL ENGINEERS 525 Main Street Juneau, Alaska 99601 (907) 585-9768



PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS

99833

DOCUMENTS

DESIGN DRAWN CHECKED

PROJECT No. 10315.24002

EX5

MAXIMUM CONNECTED LOAD = 31.2 KVA / 38 AMPS

DANIEL 114 A	SIZE		VOLTS	PHA:	SE		MAIN	LOCATION MO	UNT
PANEL H1A	400 AM	PS		BOV, 3		LU	GS ONLY	MECHANICAL 112 SUF	RFACE
C DESCRIPTION	BREAKER AMP/	-	AØ	KVA Bø	cø	СКТ	BREAKER AMP/	DESCRIPTION	C
NO	POLE	CKT		פנט	Cp		POLÉ		N.
1 POOL MECH 114, MECH 112, STORAGE 113 LTG	<u> </u>	1.3	10.7			9.4	70/3	FILTRATION PUMP	-   2
3 LOBBIES 101,102, OFFICE 103, LOCKER RMS,	20/1	3.8	ļ	13.2		9.4			4
5 EXTERIOR BUILDING, WALKWAY	20/1	0.7			10.1	9.4			6
7 POOL AREA STEPLIGHTS E. WALL, PUMP RM 118	<u> </u>	0.3	6.4			6.1	60/3	FILTRATION PUMP	
9 SPARE	20/1	0.0		6.1		6.1			11
11 SPARE	20/1	0.0			6.1	6.1			1
13 SPARE	20/1	0.0	0.2			0.2	20/1	LCP1	1-
15 SPARE	20/1	0.0		2.1		2.1	15/3	P-1A	1
17 SPARE	20/1	0.0			2.1	2.1			1
19 SPARE	20/1	0.0	2.1			2.1			2
21 SPARE	20/1	0.0		2.1		2.1	15/3	P-18	2
23 SPARE	20/1	0.0			2.1	2.1			2
25 HAND DRYER 109	15/2	1.2	3.3			2.1			2
27 SPARE	20/1	0.0		2.1		2.1	15/3	P-5	2
29 RECEPTACLES 117	20/1	0.5			2.6	2.1			3
31 SPARE	20/1	0.0	2.1			2,1			3
33 SPARE	20/1	0.0		0.0		0.0	20/1	SPARE	3
35 SPARE	20/1	0.0	1		0.0	0.0	20/1	SPARE	3
37 XFMR L1A	175/3	37.5	37.5			0.0	20/1	SPARE	3
39		37.5		37.5		0.0	20/1	SPARE	4
41		37.5			37.5	0.0	20/1	SPARE	4
BALANCED CONNECTED LOAD = 185.9 KVA / 224 /	MPS		62.3	63.1	60.5		507		DO AMP
MAXIMUM CONNECTED LOAD = 185.9 KVA / 228 /			02.5	00.1	00.0				DO AMP
* GFI CIRCUIT BREAKER	wra							AND DEMONS CONTRACT C	TO PORT

	FI CIRCUIT BREAKER	T			. /0		1		T AGATION NO.	
	PANEL H1B	SIZE	-		PHA:			MAIN	LOCATION MOUNT	
	ANEE IIIO	60 AMF	'S		80V, 3	PH	·	GS ONLY	PUMP ROOM 118 SURFACE	
C <sub>K</sub> _	DESCRIPTION	BREAKER AMP/			<u>KVA</u>			BREAKER AMP/	DESCRIPTION	C <sub>K</sub>
T NO	DESCRIPTION	POLÉ	СКТ	AØ	Bø	CØ	CKT	POLÉ	DESCRIPTION	NO
1	SPARE	20/1	0.0	1.3			1.3	15/3	JET PUMP (	2
3	SPARE	20/1	0.0		1.3		1.3			4
5	SPARE	20/1	0.0		27.5	1.3	1.3			6
7	SPARE	20/1	0,0	1.3	5.3		1.3	15/3	JET PUMP	8
9	SPARE	20/1	0.0		1.3		1.3			10
11	SPARE	20/1	0.0			1.3	1.3		<u> </u>	12
13	SPARE	20/1	0.0	3.9	,		3,9	25/3	SLIDE PUMP	14
15	SPARE	20/1	0.0		3.9		3.9	-00		16
17	SPARE	20/1	0.0		[	3.9	3.9			18
19	SPARE	20/1	0.0	3.9			3,9	25/3	SLIDE PUMP	20
21	SPARE	20/1	0.0		3.9		3.9		2.002	22
23	SPARE	20/1	0.0		100.0	3.9	3.9			24
25	SPARE	20/1	0.0	0.0	274		0.0	20/1	SPARE	26
27	SPARE	20/1	0.0		0.0		0.0	20/1	SPARE	28
29	SPARE	20/1	0.0	2346		0.0	0.0	20/1	SPARE	30
31	SPARE	20/1	0.0	0.0		874.74	0.0	20/1	SPARE	32
33	SPARE	20/1	0.0		0.0		0.0	20/1	SPARE	34
35	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	36
37	SPARE	20/1	0.0	0.0			0.0	20/1	SPARE	38
39	SPARE	20/1	0.0		0.0		0.0	20/1	SPARE	40
41	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	42
BA	ANCED CONNECTED LOAD = 31.2 KVA / 38	AMP\$		10.4	10.4	10.4			BALANCED DEMAND LOAD = 0.0 KVA / 00 /	AMPS

	PANEL L1B	SIZE		VOLT:	S/PHA	SE		MAIN	LOCATION MOUN	T
	FANEL LID	100 AMI	PS	120/2	08V, 3	PH	LU	GS ONLY	CONTROL DESK 102A FLUSH	
K NO	DESCRIPTION	BREAKER AMP/ POLE	СКТ	AØ	KVA BØ	cø	скт	BREAKER AMP/ POLE	DESCRIPTION	
_	RECEPTACLE OFFICE 103	20/1	0.4	0.6			0.2	20/1	RECEPTACLE 118	_
3	RECEPTACLE OFFICE 103	20/1	0.4		0.8		0.4	20/1	RECEPTACLES 107,105	_
5	RECEPTACLE OFFICE 103	20/1	0.4		12.5	0.8	0.4	20/1	RECEPTACLES 102A,104	_
7	RECEPTACLE OFFICE 103	20/1	0.4	0.9			0.5	20/1	RECEPTACLES 101,102	
9	COPY MACHINE OFFICE 103	20/1	1,2		1.7		0.5	20/1	RECEPTACLES 102	
11	RECEPTACLE 102A	20/1	0.4			1.3	0.9	15/1	P-6	
13	RECEPTACLE 102A	20/1	0.4	1.6			1.2	20/1	€F-4	
15	ELEVATOR LIGHTING	20/1	1.0		2.2		1.2	20/1	EF-3	
17	COPY MACHINE	20/1	1.8		T T	5.8	4.0	45/3	SAUNA HEATER/CONTROLS	
19	INTERCOM RACK	20/1	0.7	4.7			4.0	-	=-=	
21	REFER	20/1	0.7		4.7		4.0			
23	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	
25	SPARE	20/1	0.0	0.0			0.0	20/1	SPARE	
27	SPARE	20/1	0.0		0.0		0.0	20/1	SPARE	
29	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	
31	SPARE	20/1	0.0	0.0	1		0.0	20/1	SPARE	
33	SPARE	20/1	0.0		0.0	. 1-3010	0.0	20/1	SPARE	
35	SPARE	20/1	0.0		2	0.0	0.0	20/1	SPARE	
37	SPARE	20/1	0.0	0.0			0.0	20/1	SPARE	
39	SPARE	20/1	0.0	les)	0.0		0.0	20/1	SPARE	
41	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	
BA	ANCED CONNECTED LOAD = 25.1 KVA / 70	AMPS		7.8	9.4	7.9			BALANCED DEMAND LOAD = 0.0 KVA / 00	A

•	PANEL LIA (SECTION 1)	SIZE	$\perp$		PHA:		-	MAIN	LOCATION MOU	
	ANEL LIA (SECTION 1)		PS	120/2	08V, 3	PH	40	0/3 MCB	MECHANICAL 112 SURF	
K	DESCRIPTION	BREAKER AMP/			KVA			BREAKER AMP/	DESCRIPTION	Ç
10		POLÉ	CKT	AØ.	ВØ	cø	СКТ	POLÉ		N
1	UNIT HEATER	20/1	1.3	3.0			1.7	25/1	CHLORINE BOOSTER PUMP	:
3	SPARE	20/1	0.0		1.9		1.9	30/1	CHLORINE BOOSTER PUMP	
5	SPARE	20/1	0.0			0.1	0.1	20/1*	CHEMICAL CONTROLLER	
7]	SPARE	20/1	0.0	0.1			0.1	20/1•	CHEMICAL CONTROLLER	
9	P-2A	15/1	0.5		0.6		0.1	20/1	CO2 FOOD SYSTEM	1
П	P-28	15/1	0.5	-		0.6	0.1	20/1	CO2 FOOD SYSTEM	1
3	HAND DRYER 108	30/1	2.3	0.9			0.9	20/1	RECEPTACLES 114	1
5	HAND DRYER 108	30/1	2.3		0.7		0.7	20/1	RECEPTACLES 117	1
7	HAND DRYER 108	30/1	2.3			0.5	0.5	20/1	RECEPTACLES 117	
9	HAND DRYER 108	30/1	2.3	1.4			1,4	20/1	WASHER/RECEPTACLE 113	2
21	HAND DRYER 108	30/1	2.3		2.5		2.5	30/2	DRYER 113	2
23	HAND DRYER 108	30/1	2.3			2.5	2.5			2
25	HAND DRYER 109	30/1	2.3	1.2			1.2	20/1	RECEPTACLES 108	2
27	HAND DRYER 109	30/1	2.3		1.2		1.2	20/1	RECEPTACLES 108	2
9	HAND DRYER 109	30/1	2.3			0.5	0.5	20/1	RECEPTACLES 108	3
31	HAND DRYER 109	30/1	2.3	1.2			1.2	20/1	RECEPTACLES 109	3
33	HAND DRYER 109	30/1	2.3		1.2		1.2	20/1	RECEPTACLES 109	3
35	HAND DRYER 109	30/1	2.3			0.5	0.5	20/1	RECEPTACLES 109	3
37	PANEL L18	100/3	7.8	9.0			1.2	20/1	EF-2	3
39			9.4		10.6	-	1.2	20/1	EF-1	4
41			7.9			9.1	1.2	20/1	EF-5	. 4
BAL	ANCED CONNECTED LOAD = 77.5 KVA / 215 /	WPS		27.1	27.0	23.4			BALANCED DEMAND LOAD = 0.0 KVA / 00	MA
	XIMUM CONNECTED LOAD = 77.5 KVA / 226 /								MAXIMUM DEMAND LOAD = 0.0 KVA / 00	AM

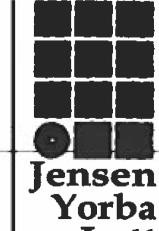
GFI	CIRCUIT	BREAKER

PAN	EL L1A	_		SIZE			S/PHA		_	MAIN	LOCATION MOUN	
	<u> </u>	(SECTION		OO AME	PS	120/2	08V, 3	PH	1.0	GS ONLY	MECHANICAL 112 SURFAC	CE C <sub>K</sub>
CKT DESCRIPTION				AKER		KVA			<del></del>	BREAKER AMP/	DESCRIPTION	
NO	510		PC	OLĖ	CKT	AØ	9ø	CØ	СКТ	POLÉ		NO
43 LAP POO	. N. UNDERWATER		G 2	0/1 •	1.0	2.0			1.0			G 44
45 LAP POO	. N. UNDERWATER		2	0/1 •	1.0		2.0		1.0		LEISURE POOL S. & E. UNDERWATER	46
47 LAP POO	. E. UNDERWATER		2	0/1 •	1.0	į	<u> </u>	2.0	1.0	20/1•	LEISURE POOL E. UNDERWATER	48
49 LAP POO	E. UNDERWATER		2	0/1 -	1.0	2.0			1.0	20/1*	LEISURE POOL E. UNDERWATER	50
51 LAP POO	E. UNDERWATER		2	0/1 •	1.0		1.0		0.0		SPACE	52
53 LAP POO	, E. UNDERWATER		2	0/1 •	1.0			1.0	0.0		SPACE	54
55 LAP POO	. W. UNDERWATER		2	0/1 •	1.0	1.0			0.0		SPACE	56
57 LAP POO	. W. UNDERWATER		2	0/1 •	1.0		1.0		0.0		SPACE	58
59 LAP POO	W. UNDERWATER		2	0/1 +	1.0			2.8	1.8	20/1	SCOREBOARD	60
61 LAP POO	. W. UNDERWATER		2	0/1 •	1.0	2.8			1.8	20/1	SCOREBOARD	62
63 LAP POO	. S. UNDERWATER		2	:0/1 •	1.0		2.8		1.6	20/1	SCOREBOARD	64
65 LAP POO	s. Underwater	•	2	0/1 •	1.0			2.6	1.6	20/1	SCOREBOARD	66
67 LAP POO	. S. UNDERWATER	ı	2	0/1 •	1.0	2.0			1.0	15/3	P-7	68
69 CONTROL	PANEL 112		2	0/1	0.5		1.5		1.0			70
71 SPACE					0.0			1.0	1.0			72
73 SPACE					0.0	0.5			0.5	20/1+	REC 117	74
75 SPACE		_			0.0		0.0		0.0		SPACE	76
77 SPACE			1		0.0			0.0	0.0		SPACE	78
79 SPACE			$\neg$		0.0	0.0			0.0		SPACE	80
81 SPACE					0.0		0.0		0.0		SPACE	82
83 SPACE					0.0			0.0	0.0		SPACE	84
BALANCED C	ONNECTED LOAD = 77.5	KVA / 215	AMPS	5		27.1	27.0	23.4			BALANCED DEMAND LOAD = 0.0 KVA / 00	AMPS
MAXIMUM C	ONNECTED LOAD = 77.5	KVA / 226	AMPS	3							MAXIMUM DEMAND LOAD = 0.0 KVA / 00	AMPS

• GFI CIRCUIT BREAKE	٠	GFI	CIRCUIT	BREAKE
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MAXIMUM DEMAND LOAD = 0.0 KVA / 00 AMPS

- 1	PANEL H2A		SIZE		VOLTS/PHASE			MAIN	LOCATION	MOUNT
FANEL HZA		250 AMPS		277/480V, 3 PH			LUGS ONLY		MECHANICAL 203	SURFACE
Κ <sub>Τ</sub>	DESCRIPTION	BREAKER AMP/	CVT	AØ	KVA	cø′	скт	BREAKER AMP/	DESCRIPTION	
의	1000/ 100 001 VEGU 001 0VE 007 000 007 17/	POLE	CKT	_	ВØ	Cya	1	POLE	harma a	
	LOBBY 102,201,MECH 204,RMS 205,202,203 LTG	<del></del>	3.6	15.3		<del></del>	11.7	100/3	HRV-1	2
_	POOL ROOM LIGHTRUSS	20/1	2.0		13.7	12.55	11.7			
-	POOL ROOM LIGHTTRUSS	20/1	2.0			13.7	11.7			6
-	POOL ROOM LIGHTTRUSS	20/1	2.0	13.7		<u> </u>	11.7	100/3	HRV-2	8
-	POOL ROOM LIGHTTRUSS	20/1	2.0		13.7		11.7			10
-	POOL ROOM LIGHTRUSS	20/1	2.0			13.7	11.7			12
-	POOL ROOM LIGHTTRUSS	20/1	2.0	2.2		ļ <u>.</u>	0.2	20/1	LCP2	11
5	POOL ROOM LIGHTTRUSS	20/1	2.0		2.0		0.0	20/1	SPARE	10
7	POOL ROOM LIGHTTRUSS	20/1	2.0			2.0	0.0	20/1	SPARE	18
9	POOL ROOM LIGHTTRUSS	20/1	2.0	2.0			0.0	20/1	SPARE	20
21	POOL ROOM LIGHTTRUSS	20/1	2.0		2.0		0.0	20/1	SPARE	2:
23	POOL ROOM LIGHTTRUSS	20/1	2.0			2.0	0.0	20/1	SPARE	24
:5	POOL ROOM LIGHTTRUSS	20/1	2.0	2.0			0.0	20/1	SPARE	2
7	POOL ROOM LIGHTTRUSS	20/1	2.0		2.0		0.0	20/1	SPARE	-21
9	POOL ROOM LIGHTTRUSS	20/1	2.0			2.0	0.0	20/1	SPARE	34
<u> </u>	POOL ROOM LIGHTRUSS	20/1	2.0	2.0			0.0	20/1	SPARE	3:
13	POOL ROOM LIGHTTRUSS	20/1	2.0		2.0		0.0	20/1	SPARE	3-
55	POOL ROOM LIGHTTRUSS	20/1	2.0			2.0	0.0	20/1	SPARE	30
7	POOL ROOM SIDE WALLS	20/1	1.0	110			100	20/3	XFMR L2A	30
59	EXTERIOR BUILDING	20/1	0.5		10.5		10.0			40
-+	SPARE	20/1	0.0			10.0	10.0			4:
_	ANCED CONNECTED LOAD = 139.5 KVA / 168			48.2	45.9	45.4			BALANCED DEMAND LOAD =	0.0 KVA / 00 AMP



Jensen Yorba Lott Inc.





PETERSBURG,

PETERSBURG AQUATIC CENTER DRAIN LINE REPAIRS

PETERSBURG,

BID DOCUMENTS

DRAWING

EXHIBIT

DESIGN
DRAWN
CHECKED
DATE

07/09/2025 PROJECT No. 10315.24002

EX6

REVISIONS

SHEET TITLE

SCHEDULES

DATE: MARCH 2005 FD.E: 0012

No. Date REVISIONS