

**AWWU PLAN SET
NO. 11173**

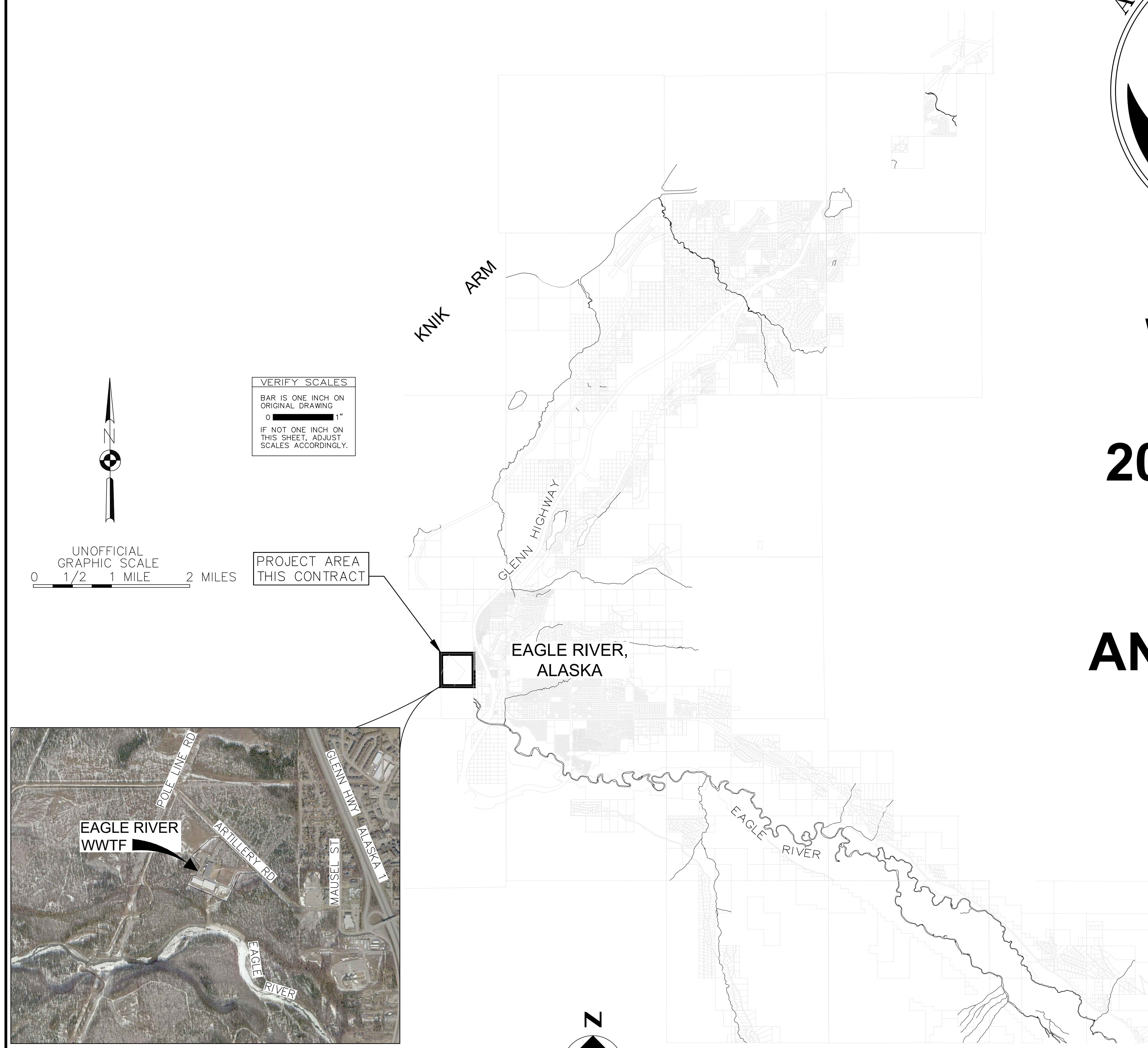
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

2022 SEWER IMPROVEMENTS ERWWTF EARTHQUAKE REPAIRS AND STRUCTURAL RETROFITS

PROJECT IDENTIFICATION No. WM.00151

JUNE 2022

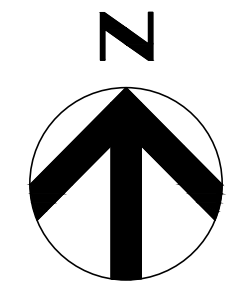
100% SUBMITTAL



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

UNOFFICIAL GRAPHIC SCALE
0 1/2 1 MILE 2 MILES

PROJECT AREA THIS CONTRACT



VICINITY MAP
1" = 5000'

LOCATION MAP
NO SCALE

SHEET INDEX

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GENERAL NOTES

- ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN THE MOST CURRENT EDITION OF THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (MASS).
- WORK SCOPE INVOLVING DEMOLITION, RELOCATION, AND/OR INSTALLATION OF MECHANICAL AND ELECTRICAL INFRASTRUCTURE TO BE COMPLETED BY BUILDING TRADE RESOURCES LICENSED AND CERTIFIED TO EXECUTE THAT WORK IN ACCORDANCE WITH ALASKA STATUTES.

**AWWU PLAN SET
NO. 11173**

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 DATE: _____ TITLE: _____
 BY: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
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 COMPANY: _____
 DATE: _____ TITLE: _____
 BY: _____

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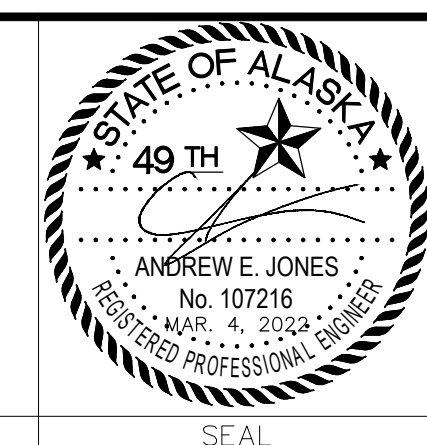
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GV Jones & Associates, Inc.
WATER AND WASTEWATER PROCESS ENGINEERS

1200 E. 76th Ave., Unit 1207
 Anchorage, Alaska 99503
 Phone: (907) 346-4123

PRIME CONSULTANT

CONSULTANT



MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

ERWWTF EARTHQUAKE REPAIRS
 AND STRUCTURAL RETROFITS

BUILDING 1
 PROJECT CONSTRAINTS

DATE: MARCH 2022 GRID: NE 1902

PROJ. ID.: WM.00151

DWG IND.1

SHEET 2 of 29

SUBMITTALS: In accordance with MASS & section 01 13 00 Submittals, submit the following documents to the SER for review:

- (1) SHOP DRAWINGS complying with AISC 360 Sections M1 and N3 and AISC 303 Section 4.
(2) ERECTION DRAWINGS complying with AISC 360 Sections M1 and N3 and AISC 303 Section 4.
(3) Weld Procedure Specifications (WPS's) for shop and field welding.
(4) Manufacturers Certificates of Conformance for electrodes, fluxes and gases (welding consumables).

Make copies of the following documents available to the SER or Owner's Inspection Agency in electronic or printed form prior to fabrication per AISC 360 Section N3.2 requirements:

- (1) Fabricator's written Quality Control Manual that includes, as a minimum:
a. Material Control Procedures
b. Inspection Procedures
c. Non-conformance Procedures
(2) Steel & Anchor Rod suppliers' Material Test Reports (MTR's) indicating the compliance with specifications.
(3) Fabricator's manufacturer's Certification documenting conformance with the specification.
(4) Filler metal manufacturer's product data for Shielded Metal Arc Welding (SMAW), Flux-Cored Arc Welding (FCAW) and Gas Metal Arc Welding (GMAW) indicating:
a. Product specification compliance
b. Recommended welding parameters
c. Recommended storage and exposure requirements including baking
d. Limitations of use
(5) Procedure Qualification Records (PQR's) for WPS's that are not prequalified in accordance with AWS.
(6) Welding personnel Performance Qualification Records (WPQR) and continuity records conforming to AWS standards.

MATERIALS: Structural steel materials shall conform to materials and requirements listed in AISC 360 section A3 including, but not limited to:

- Angle (L) ShapesASTM A36, Fy (Yield Stress) = 36 ksi
Structural Plate (PL)ASTM A36, Fy = 36 ksi
Hollow Structural Section - Square/Rect (HSS), ASTM A500, Grade B Fy = 46 ksi
Washers (Hardened Flat or Beveled)ASTM F436, Grade and Finish per RCSC Table 2.1
High Strength Threaded RodsASTM A449, Fy = 50 ksi

FABRICATION:

- 1) Conform to AISC 360 Section M2 "Fabrication" and AISC 303 Section 6 "Shop Fabrication".
2) Quality Control (QC) shall conform to:
a. AISC 360 Chapter N "Quality Control and Quality Assurance" and
b. AISC 303 Section 8 "Quality Control".
c. Fabricator and Erector shall establish and maintain written Quality Control (QC) procedures per AISC 360 section N3.
d. Fabricator shall perform self-inspections per AISC 360 section N5 to ensure that their work is performed in accordance with Code of Standard Practice, the AISC Specification, Contract Documents and the Applicable Building Code.
e. QC inspections may be coordinated with Quality Assurance inspections per Section N5.3 where fabricators QA procedures provide the necessary basis for material control, inspection, and control of the workmanship expected by the Special Inspector.

WELDING:

- 1) Welding shall conform to AWS D1.1 and D1.8 as applicable for Seismic elements with Prequalified Welding Processes except as modified by AISC 360 section J2 and AISC 341 as applicable. Welders shall be qualified in accordance with AWS D1.1 (and D1.8 for Demand Critical Welds where applicable) requirements.
2) Use 70ksi strength, low-hydrogen type electrodes (E7018) or E71T as appropriate for the process selected.
3) Welding of high strength anchor rods is prohibited unless approved by Engineer.
4) Welding of headed stud anchors shall be in accordance with AWS D1.1 Chapter 7 "Stud Welding".

ERECTION:

- 1) Conform to AISC 360 Section M4 "Erection" and AISC 303 Section 7 "Erection".
2) Conform to AISC 360 Chapter N "Quality Control and Quality Assurance" and AISC 303 Section 8.
a. The Erector/Contractor shall maintain detailed erection quality control procedures that ensure that the work is performed in accordance with these requirements and the Contract Documents.
3) Steel work shall be carried up true and plumb within the limits defined in AISC 303 Section 7.13.
4) High strength bolting shall comply with the RCSC requirements including RCSC Section 7.2 "Required Testing", as applicable and AISC 360 Chapter J, Section M2.5 and Section N5.6.
5) The contractor shall provide temporary bracing and safety protection required by AISC 360 Section M4.2 and AISC 303 Section 7.10 and 7.11.
6) All bolts and threaded rods shall be tightened to "Snug-tight" condition per RCSC, unless noted otherwise.

STRUCTURAL STEEL - SEISMIC PROVISIONS

REFERENCE STANDARDS: Conform to the standards in the STRUCTURAL STEEL section and the following:

- 1) ANSI/AISC 341-16 - "Seismic Provisions for Structural Steel Buildings"
2) AWS D1.8:2009 - "Structural Welding Code - Seismic Supplement"

SCOPE: In addition to the standards specified in the STRUCTURAL STEEL Section of these GENERAL REQUIREMENTS, Structural Steel that is part of or that transfers seismic loads to the designated Seismic Force Resisting System (SFRS) defined in the DESIGN CRITERIA AND LOADS section of these GENERAL REQUIREMENTS, shall comply with the applicable SEISMIC PROVISIONS below.

SEISMIC FORCE RESISTING SYSTEM (SFRS): The SFRS is an assemblage of beams, columns, and bracing that have been specially proportioned into vertical frame systems to resist lateral seismic forces. Beyond the frames are typically other horizontal members connecting to the vertical shear-resisting frames that collect and deliver concentrated seismic forces to the vertical shear elements. These elements include "collectors", "drags", and "diaphragms" (such as the floor slab and roof deck), which also form part of the SFRS and are subject to the "Seismic Provisions" of AISC 341.

DESIGNATION of the primary SFRS Framing System for this project is provided in the DESIGN CRITERIA AND LOADS section of these GENERAL REQUIREMENTS. In addition to the primary steel SFRS, Stability of the structure under seismic loads is reliant upon structural steel collectors, drag struts, and diaphragm chords which are also governed by the Seismic Provisions.

Lowest Anticipated Service Temperature (LAST): The primary SFRS framing for this project is to be enclosed and expected to be maintained with the LAST of 50 degrees Fahrenheit.

Structural members and their connections considered in the design of the SFRS are subject to the special Seismic Provisions of this section. Subject elements require special attention to detailing, material control, documentation, fabrication, inspection, and protections from all trades. Special requirements include but are not limited to:

- 1) Identification of SFRS Members and their Connections on shop and erection drawings: include special detailing, welding and inspection requirements.

QUALITY CONTROL and QUALITY ASSURANCE PLAN: Quality Control (QC) (by Contractor) and Quality Assurance (QA) (by an approved Special Inspection Agency) for members of the SFRS shall be provided in accordance with AISC 341, Chapter J and coordinated per Section J6.4:

- 1) Fabricator and Erector shall have Quality Control Program per AISC 360 Section N2.
a. Fabricator and Erector shall provide access to the Quality Assurance/Special Inspection Agency, prior to the start of work, for purposes of review of the Quality Control Program required per AISC 360 Section N2 per IBC 1704.2.5.
2) Special Inspections required per IBC sections 1705.2.1 and 1705.12.1 and the STATEMENT OF SPECIAL INSPECTIONS section of these GENERAL REQUIREMENTS.

SUBMITTALS:

- (1) Submit Fabricator and Erector Documents per AISC 360 Section N3 and AISC 341 Section J2.1.
(2) Shop drawings of the SFRS shall be prepared in accordance with AISC 303 Section 4, AISC 341 Sections A4.1, A4.2, and I1 and shall include the following:
a. DESIGNATION OF THE SFRS
b. MEMBER AND CONNECTIONS OF THE SFRS clearly identified.
(3) Weld Procedure Specifications (WPS's).
(4) Bolt Installation Procedures.
(5) Material Data For Demand Critical Welds per AISC 341 J2.1(3).

SFRS MATERIALS: Structural steel part of the SFRS shall meet the requirements of AISC 341, Section A3.1. Reference the MATERIALS section of the STRUCTURAL STEEL for specific ASTM specifications.

SFRS WELDING REQUIREMENTS: All welding of the SFRS shall conform to the Structural Welding Code, AWS D1.1 and the Seismic Supplement, AWS D1.8, including, both shop fabrication and field erection welding.

- 1) WELDING PROCEDURE SPECIFICATIONS (WPS): Welding shall be done with appropriate Weld Procedures prepared in accordance with AWS D1.1, AWS D1.8 clause 6.1. Submit for review per AISC 341 Section I2.3.
2) FILLER METAL: Welds of members of the SFRS shall be made with filler metal conforming to the requirements of AISC 341 Section A3.4 and AWS D1.8 clause 6.3, which can produce welds that have a minimum Charpy V-Notch toughness of 20 foot-pounds at 0 degrees Fahrenheit. Submit evidence of compliance.

NONSTRUCTURAL SEISMIC REPAIR ITEMS

Drywall Crack Repair:

Repair drywall cracks in Building 1 (shop area, admin area, HVAC rooms and pipe penetrations between the process area and admin area) and Building 2. Quantities on Bid Proposal are approximate and actual extents of repairs will be identified by Engineer. Repair drywall cracks as follows:

- 1) Cracks less than 1/4-inch:
a. Trim any loose pieces from the cracked area and wipe clean.
b. Fill with joint compound, using a putty knife.
c. Let harden and add second coat if necessary.
d. Sand when dry.
e. Prime and paint entire wall to match existing, to nearest corner or as otherwise specified.
f. Paint shall be latex acrylic; submit for approval.
2) Cracks 1/4-inch and greater:
a. Trim any loose pieces from the cracked area with a utility knife and wipe clean
b. Use a utility knife to widen the crack and cut it into a "V" to help the drywall compound adhere
c. Test the strength of the wall by pushing on the crack with your hands. If the wall moves, use the dry-wall screws and drill to attach it to the closest stud
d. Apply drywall compound over the crack with a 5-inch joint knife, embed tape in compound to bridge crack. Draw knife firmly over crack to tightly embed tape. Let compound harden. Apply compound over tape with knife. Let harden and apply second coat of compound if necessary. Feather to adjacent surface.
e. When dry, use sandpaper and hand sander or a sanding sponge to create a smooth surface and apply texture, as needed, to match adjacent surface.
f. Prime and paint entire wall to match existing, to nearest corner or as otherwise specified.
g. Paint shall be latex acrylic; submit for approval

Pipe Insulation Repair:

Reference Specifications for repair of pipe insulation where required.

DRAWING LEGEND table with columns MARK, DESCRIPTION, MARK, DESCRIPTION. Includes symbols for F2.0, 2W4, revision triangles, roof/floor diaphragm nailing, elevation symbols, stud bubbles, ledgers, section cuts, concrete walls, and bearings.

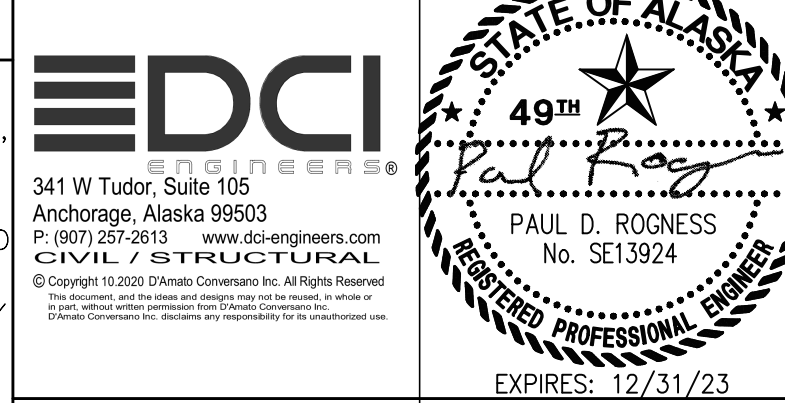
ABBREVIATIONS table with columns L, EXT, PJP, etc. Lists abbreviations for materials, construction, and structural elements with their full names.

VERIFY SCALE table with columns DATA, DRAWN BY, CHECKED BY, DATE, REV, DESCRIPTION, BY.

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING table with columns DATA, DRAWN BY, CHECKED BY, DATE, REV, DESCRIPTION, BY.

RECORD DRAWING Note: To be filled out on original drawings upon project completion. 1. DATA PROVIDED BY: ... 2. DATA TRANSFERRED BY: ... 3. Based on periodic field observations by the Engineer...

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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY. ERWWTF SCHED A EARTHQUAKE REPAIRS. DWG SO.2. STRUCTURAL GENERAL NOTES CONTINUED, LEGEND AND ABBREVIATIONS. DATE: JUNE 2022, GRID: NW0150, SHEET 4 of 24, PROJ. ID.: WM.00151

SPECIAL INSPECTIONS

The following Statement and Schedules of Inspections are those Special Inspections and Tests that shall be performed for this project. Special Inspectors shall reference these plans and IBC Chapter 17 for all special inspection requirements.

STATEMENT OF SPECIAL INSPECTIONS: This statement of Special Inspections has been written with the understanding that the Building Official will:

- Review and approve the qualifications of the Special Inspectors
- Monitor the special inspection activity on the project site to assure that Special Inspectors are qualified and performing their duty as stated within this statement.
- Review all Special Inspection Reports submitted to them by the Special Inspector
- Perform inspections as required by IBC Section 110.3.

The following Special Inspections are applicable to this project:
- Special Inspections for Standard Buildings (per IBC 1705.1) REQUIRED
- Special Inspections for Seismic Resistance (per IBC 1705.12) REQUIRED
- Testing for Seismic Resistance (per IBC 1705.12) REQUIRED

STRUCTURAL STEEL per IBC 1705.2.1, 1705.12.2, 1705.13.1

A qualified Special Inspector of an "approved agency" providing Quality Assurance (QA) Special Inspections for the project shall review and confirm the Fabricator and Erector's Quality Control (QC) procedures for completeness and adequacy relative to AISC 360-16 Chapter N, AISC 303-16 Code of Standard Practice, AWS D1.1-2015 Structural Welding Code, AISC 341-16 Seismic Provisions Chapter J, AWS D1.8-2009 Seismic Supplement and 2018 IBC code requirements for the fabricator's scope of work.

- o QA Agency providing Special Inspections shall provide personnel meeting the minimum qualification requirements for Inspection and Nondestructive Testing NDT per AISC 360 Section N4.
o For Special Inspections of Steel Seismic Force Resisting Systems, QA Agency personnel shall meet the minimum qualification requirements for Inspection and Nondestructive Testing NDT per AISC 341 Sections J3 and J4.
o QC Agency shall submit qualification documents per AISC 341 section J2 on projects subject to Special Inspections on Seismic Force Resisting Systems with R >3.
o NDT personnel shall be qualified per AISC 341 Section J4.
o Provide QC and QA Inspections per AISC 341 Section J5 through J10 as applicable.
o Verify Fabricator and Erector QC Program per AISC 360 Section N2.
o Inspection of welds and bolts by both QC and QA personnel shall be per the Schedule of Special Inspections below. All provisions of AWS D1.1 Structural Welding Code for statically loaded structures shall apply. Additional Weld and Bolt Inspections shall be performed by both QC and QA personnel on SFRS elements in accordance with the Schedule of Special Inspections below. Welding inspection and nondestructive testing shall also satisfy AISC 360 and AWS D1.8 Seismic Supplement.
o Nondestructive Testing (NDT) of welds:
- Non-Destructive Testing (NDT) of welded joints per AISC 360 N5.5 and AISC 341 J6.2 for elements of the SFRS.
- Risk Category for determination of extent of NDT per AISC 360 N5.5b is noted in the Design Criteria and Loads section of these General Requirements.
- NDT performed shall be documented and reports shall identify the tested weld by piece mark and location of the piece.
- For field work, the NDT report shall identify the tested weld by location in the structure, piece mark and location of the piece.
o Additional Inspection tasks per AISC 360 Section N5.8.
o Inspection for Composite Construction shall be done per AISC 360 Section N6.

POST-INSTALLED ANCHORS TO CONCRETE; shall comply with IBC Section 1703. Inspections shall be in accordance with the requirements set forth in the approved ICC Evaluation Report and as indicated by the design requirements specified on the drawings. Refer to the POST INSTALLED ANCHORS section of these notes for anchors that are the basis of the design. Special inspector shall verify anchors are as specified in the POST INSTALLED ANCHORS section of these notes or as otherwise specified on the drawings. Substitutions require approval by the SER and require substantiating calculations and current 2018 IBC recognized ICC Evaluation Services (ES) Report. Special Inspector shall document in their Special Inspection Report compliance with each of the elements required within the applicable ICC Evaluation Services (ES) Report.

SCHEDULES OF SPECIAL INSPECTIONS:

MINIMUM REQUIREMENTS FOR INSPECTIONS OF STRUCTURAL STEEL CONSTRUCTION

Table with 4 columns: INSPECTION TASKS, QC, QA, REFERENCED STANDARD. Rows include inspection tasks prior to welding, during welding, and after welding, covering various steel construction details.

O - Observe these items on a random basis. Operations need not be delayed pending these inspections
P - Perform these tasks for each welded joint or member, each bolted connection, or each steel element

MINIMUM REQUIREMENTS SPECIAL INSPECTION OF STRUCTURAL STEEL SEISMIC FORCE RESISTING SYSTEM (SFRS)

Table with 6 columns: INSPECTION TASK, QC, QC, QA, QA, REFERENCED STAND-ARD. Rows include visual inspection tasks prior to welding, during welding, and after welding, and repair activities.

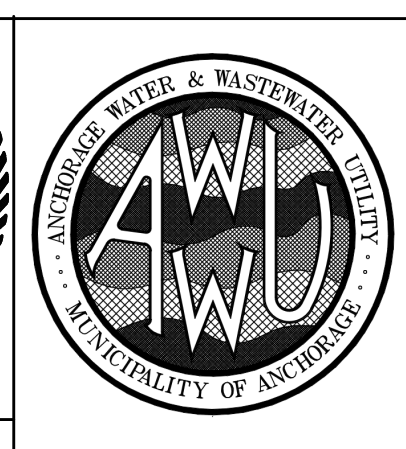
O - The Inspector shall observe these functions on a random, daily basis. Operations need not be delayed pending observations.
P - These inspections shall be performed prior to the final acceptance of the item.
D - The Inspector shall prepare reports indicating that the work has been performed in accordance with the contract documents. The report need not provide detailed measurements for joint fit-up, WPS settings, completed welds, or other individual items listed in the tables.

Table with 2 columns: PLAN CHECK, REVISIONS. Includes a revision table with columns for REV, DATE, DESCRIPTION, and BY.

RECORD DRAWING Note: To be filled out on original drawings upon project completion
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2. DATA TRANSFERRED BY: COMPANY: DATE:
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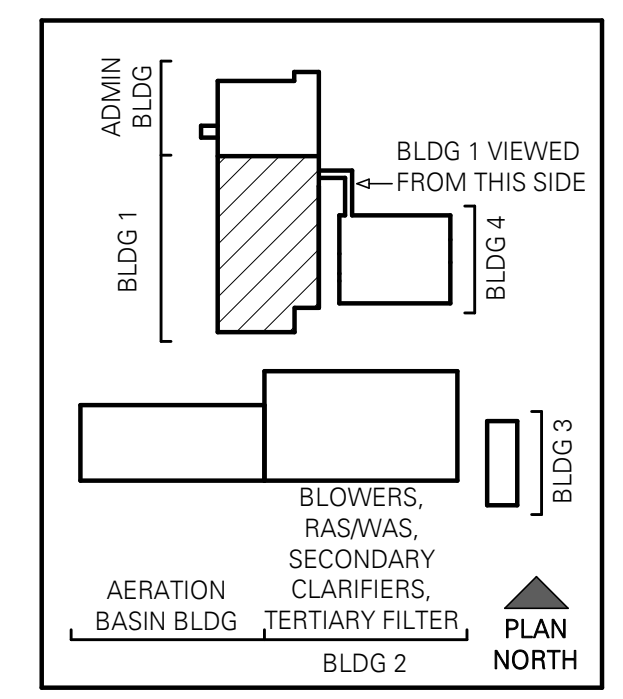
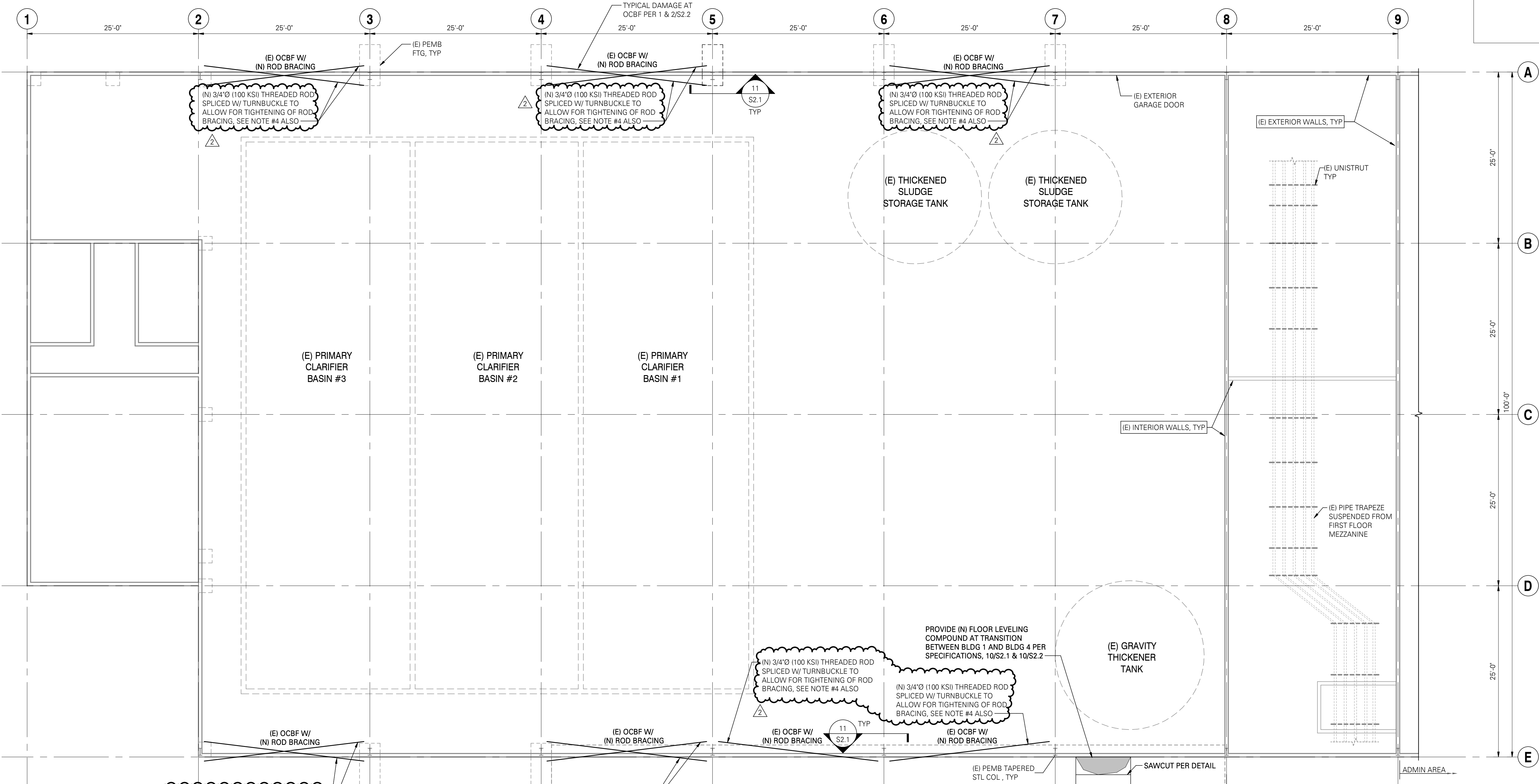
EDCI ENGINEERS CONSULTANTS INC. 341 W Tudor, Suite 105 Anchorage, Alaska 99503. Includes State of Alaska Professional Engineer seal for Paul D. Rogness, No. SE13924, expires 12/31/23.



MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY
ERWWTF SCHED A EARTHQUAKE REPAIRS
STRUCTURAL SPECIAL INSPECTIONS
DATE: JUNE 2022 GRID: NW0150 SHEET 5 of 24
PROJ. ID.: WM.00151

AWWU PLAN SET NO. 11173

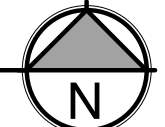
AWWU PLAN SET NO. 11173



- FOUNDATION PLAN NOTES:**
- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
 - ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
 - CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
 - AT ALL LOCATIONS WHERE NEW ROD BRACES ARE SHOWN, CONTRACTOR SHALL REMOVE EXISTING RODS AND HARDWARE, REPAIR EXISTING COATING ON PRIMARY STEEL MEMBERS, AND INSTALL NEW RODS AND HARDWARE.

BUILDING 1 FOUNDATION AND FIRST FLOOR PLAN

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



VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY		FULL SIZE SCALE	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE
						1	05/2022
						2	6/24/22

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 BY: _____ DATE: _____
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 COMPANY: _____
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STATE OF ALASKA
 49th
 PAUL D. ROGNESS
 No. SE13924
 REGISTERED PROFESSIONAL ENGINEER
 EXPIRES: 12/31/23

ANCHORAGE WATER & WASTEWATER UTILITY
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 MUNICIPALITY OF ANCHORAGE

MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

ERWWTF SCHED A EARTHQUAKE REPAIRS

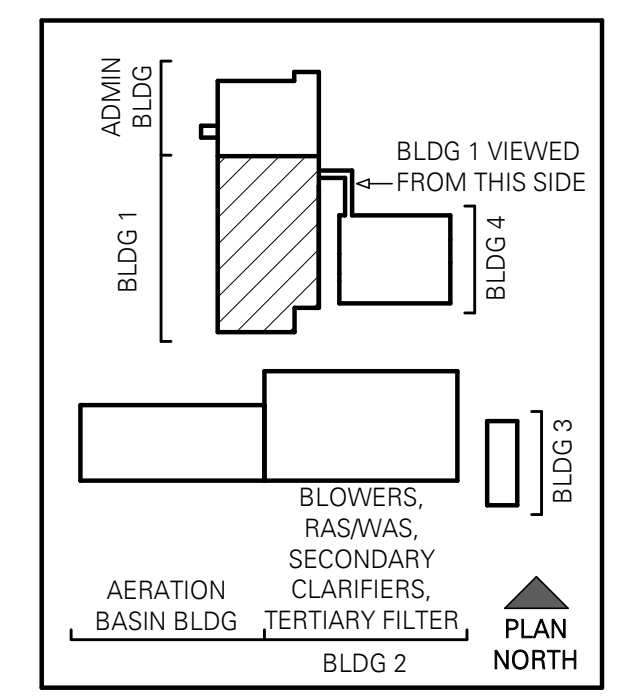
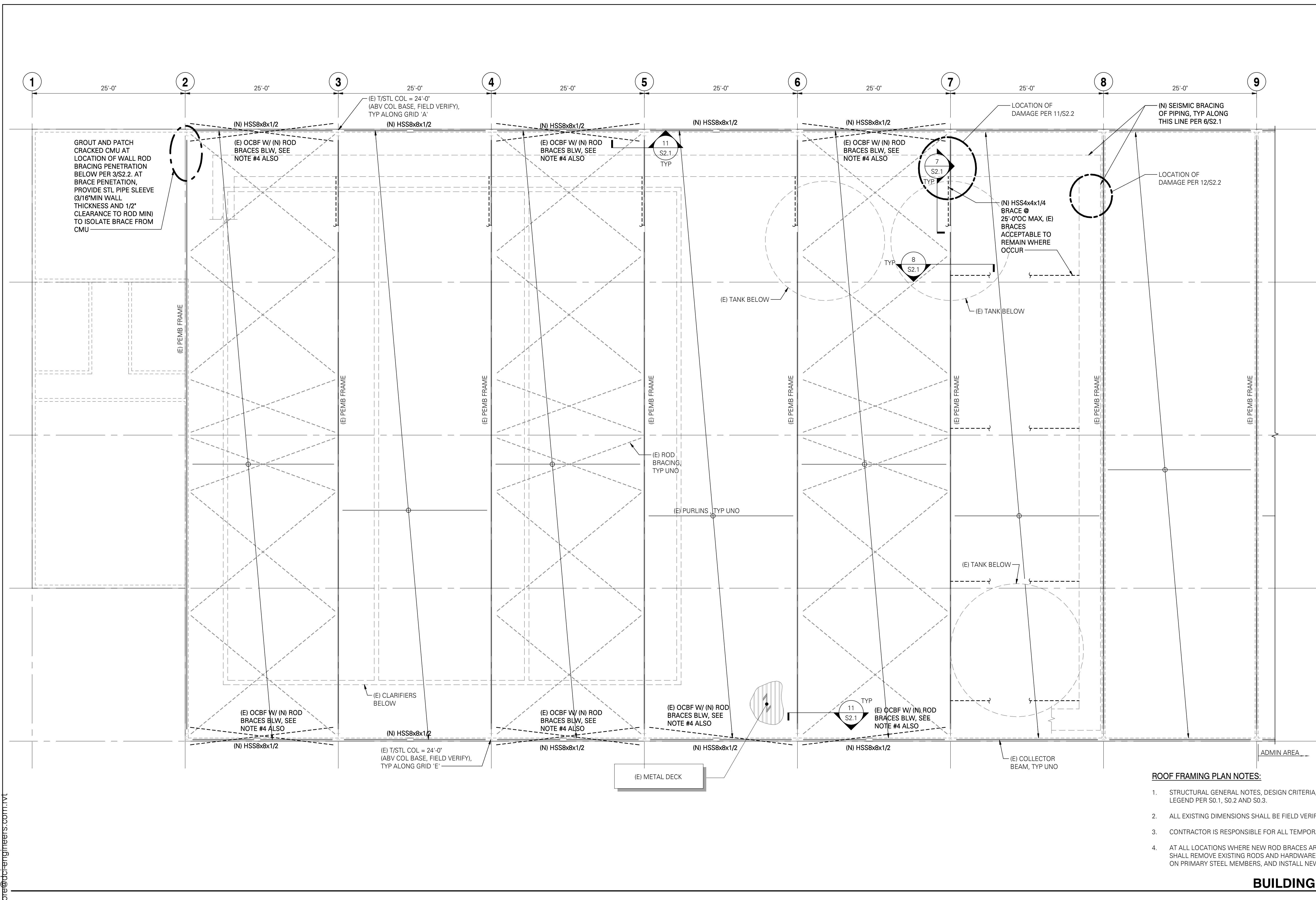
STRUCTURAL BUILDING 1 FOUNDATION AND FIRST FLOOR PLAN

DATE: JUNE 2022 GRID: NWO150

PROJ. ID.: WM.00151

DWG S1.0

SHEET 6 of 24



KEY PLAN

- ROOF FRAMING PLAN NOTES:**
- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
 - ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
 - CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
 - AT ALL LOCATIONS WHERE NEW ROD BRACES ARE SHOWN, CONTRACTOR SHALL REMOVE EXISTING RODS AND HARDWARE, REPAIR EXISTING COATING ON PRIMARY STEEL MEMBERS, AND INSTALL NEW RODS AND HARDWARE.

BUILDING 1 ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

DATA	DRAWN BY	CHECKED BY	DATE	DESCRIPTION	BY
1			05/2022	BDC RESPONSE RD 1	JLR
2			6/24/22	TENSION ROD SCOPE	JLR

REV	DATE	DESCRIPTION	BY

RECORD DRAWING Note: To be filled out on original drawings upon project completion

1. DATA PROVIDED BY: _____
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 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
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 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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STATE OF ALASKA
 49TH
 PAUL D. ROGNESS
 No. SE13924
 REGISTERED PROFESSIONAL ENGINEER
 EXPIRES: 12/31/23

ANCHORAGE WATER & WASTEWATER UTILITY
 AWWU
 MUNICIPALITY OF ANCHORAGE

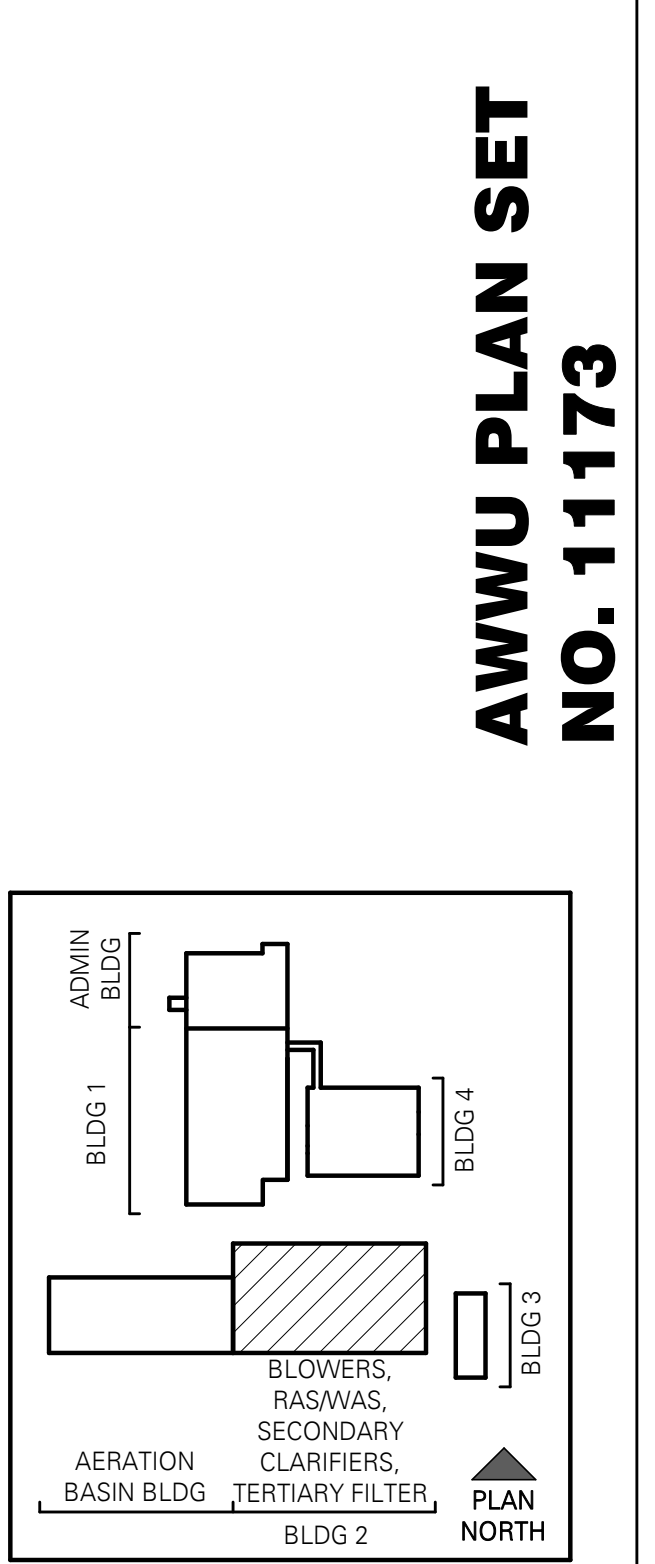
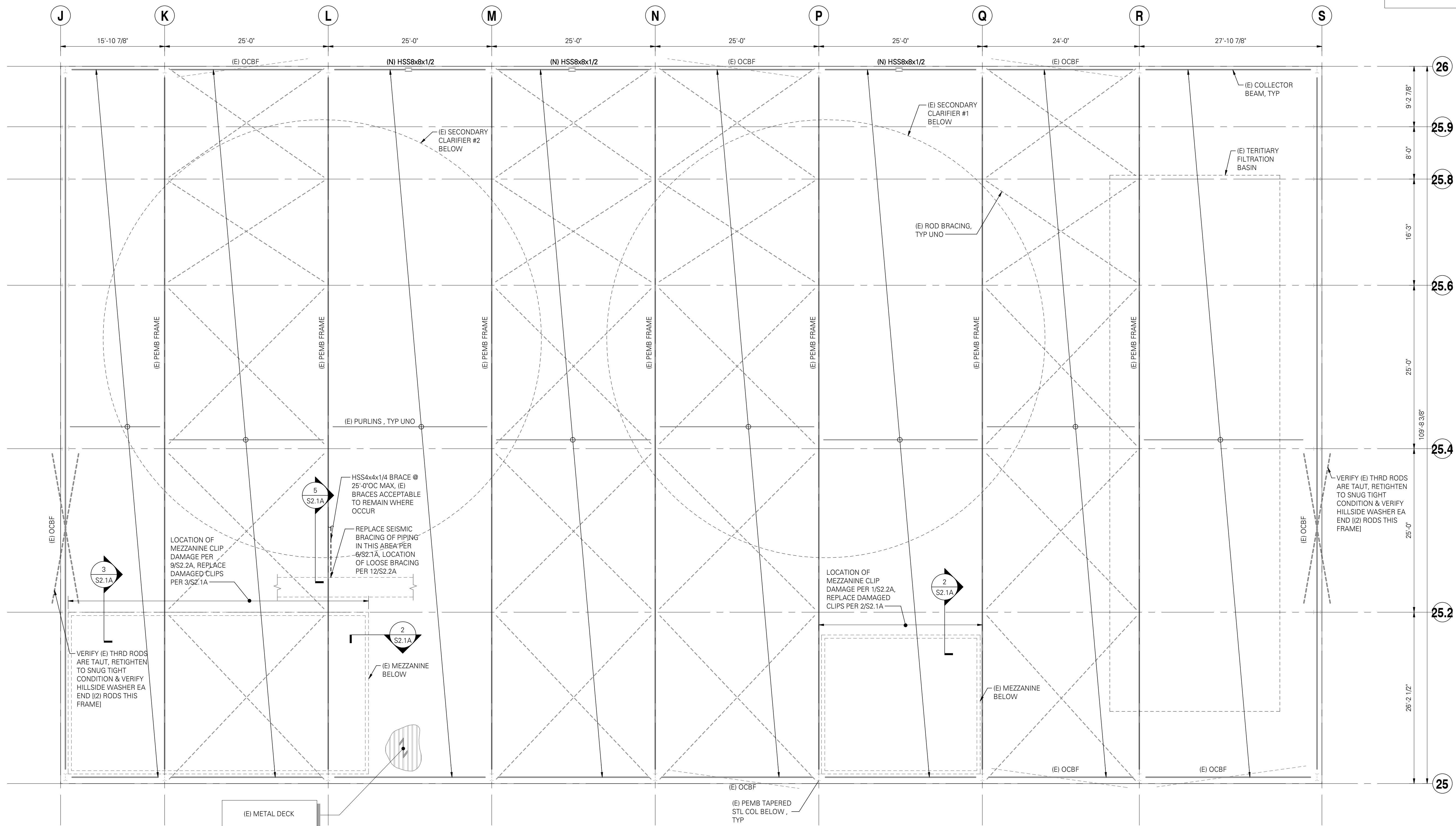
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY
 ERWWTF SCHED A EARTHQUAKE REPAIRS
 STRUCTURAL BUILDING 1 ROOF FRAMING PLAN
 DATE: JUNE 2022 GRID: NW0150
 PROJ. ID.: WM.00151

DWG S1.1
 SHEET 7 of 24

**AWWU PLAN SET
NO. 11173**

ROOF FRAMING PLAN NOTES:

- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
- ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
- CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.



AWWU PLAN SET NO. 11173

KEY PLAN

BUILDING 2 ROOF FRAMING PLAN SCALE: 1/8" = 1'-0"

VERIFY SCALE		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY		FULL SIZE SCALE	
DATA	BY	DATA	BY	DATA	BY
1	JLR	05/2022	BDC RESPONSE RD 1		
2	JLR	6/24/22	TENSION ROD SCOPE		

RECORD DRAWING Note: To be filled out on original drawings upon project completion

1. DATA PROVIDED BY: _____
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 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

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 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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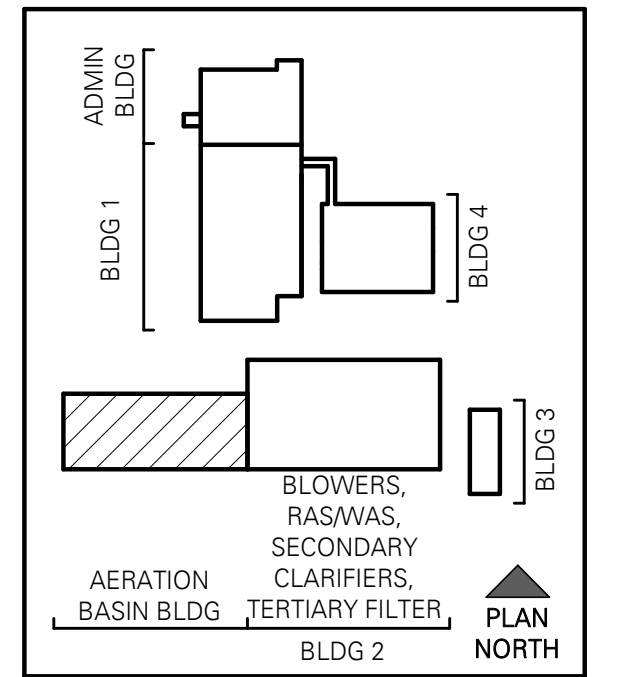
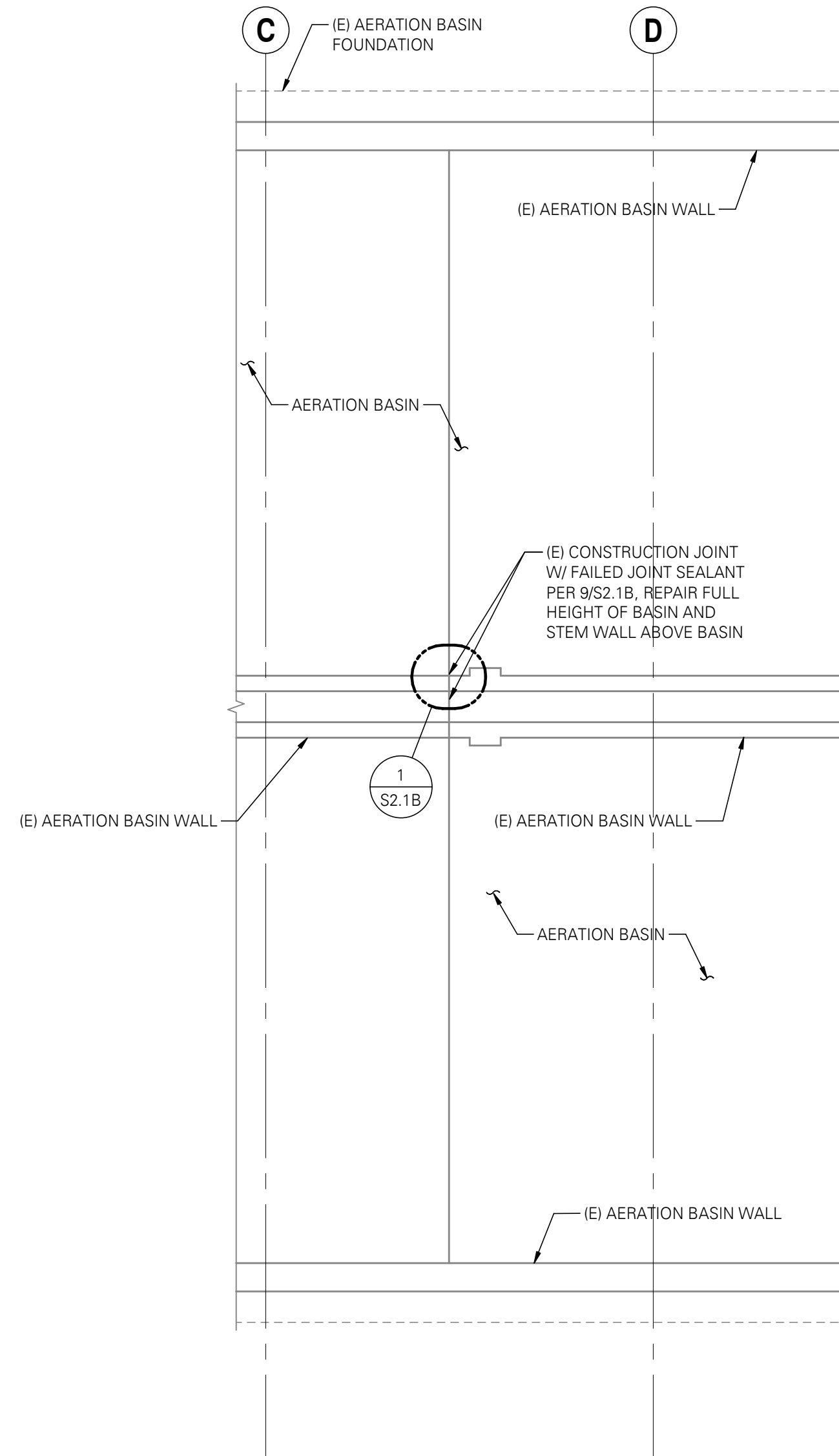
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 No. SE13924
 REGISTERED PROFESSIONAL ENGINEER
 EXPIRES: 12/31/23

ANCHORAGE WATER & WASTEWATER UTILITY
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY
 ERWWTF SCHED A EARTHQUAKE REPAIRS
 STRUCTURAL BUILDING 2 ROOF FRAMING PLAN
 DATE: JUNE 2022 GRID: NW0150
 PROJ. ID.: WM.00151

DWG S1.1A
 SHEET 8 of 24



KEY PLAN

FOUNDATION PLAN NOTES:

- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
- ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
- CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.

AERATION BASIN PLAN

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

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY		FULL SIZE SCALE	
DATA	BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION	BY
		05/2022	BDC RESPONSE RD 1	JLR			
		6/24/22	TENSION ROD SCOPE	JLR			
PLAN CHECK				REVISIONS			

RECORD DRAWING Note: To be filled out on original drawings upon project completion

1. DATA PROVIDED BY: _____
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 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____ DATE: _____

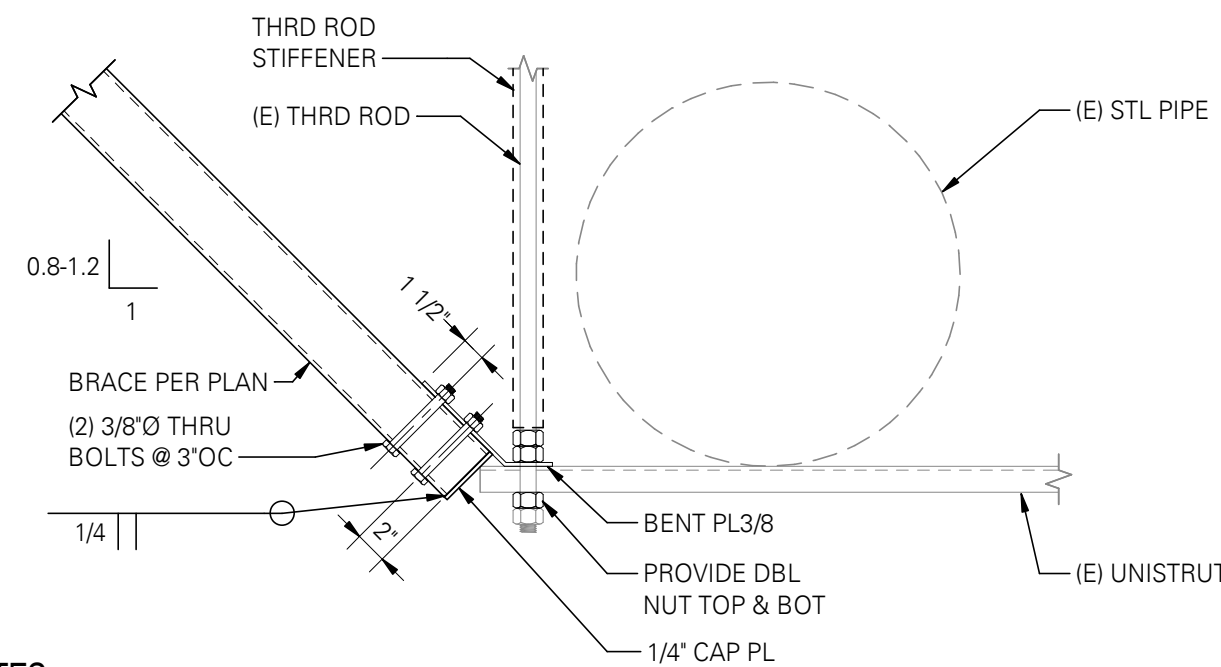
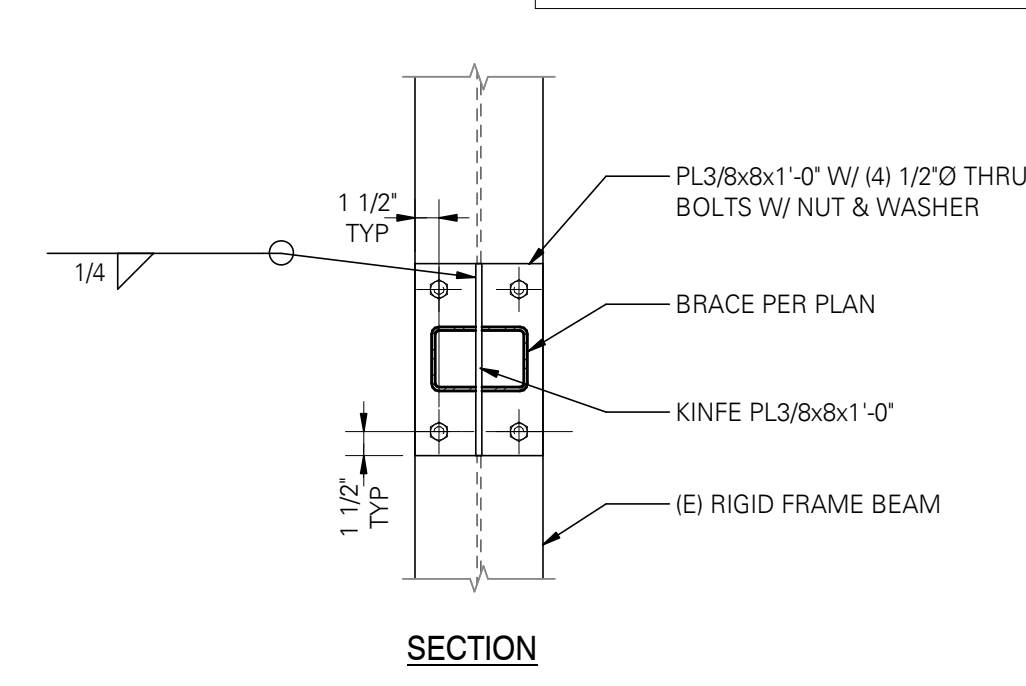
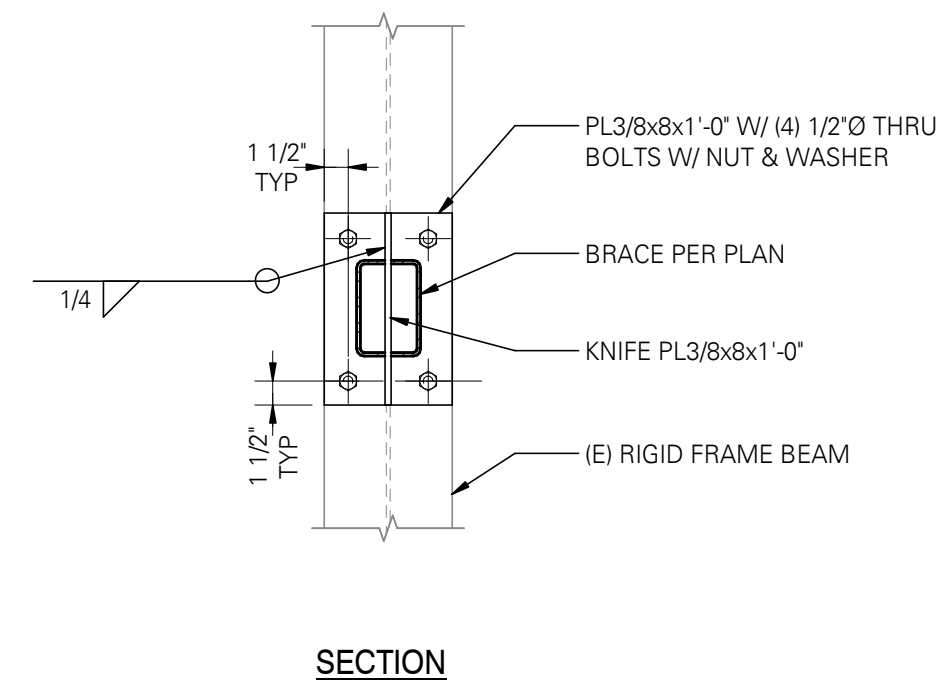
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
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 COMPANY: _____
 BY: _____ TITLE: _____
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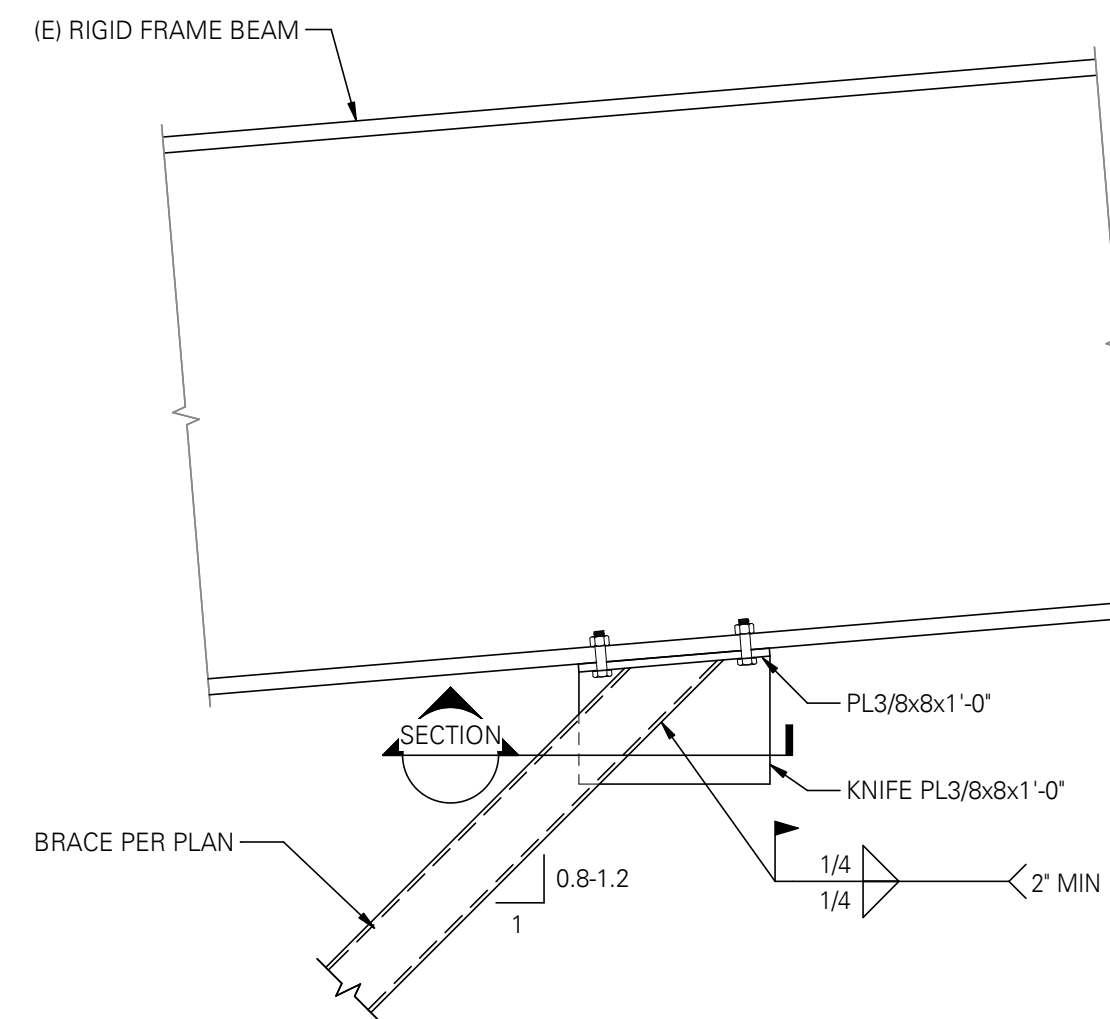
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG
ERWWTF SCHED A EARTHQUAKE REPAIRS		S1.1B
STRUCTURAL AERATION BUILDING AERATION BASIN PLAN		
DATE: JUNE 2022	GRID: NW0150	SHEET 9 of 24
PROJ. ID.: WM.00151		



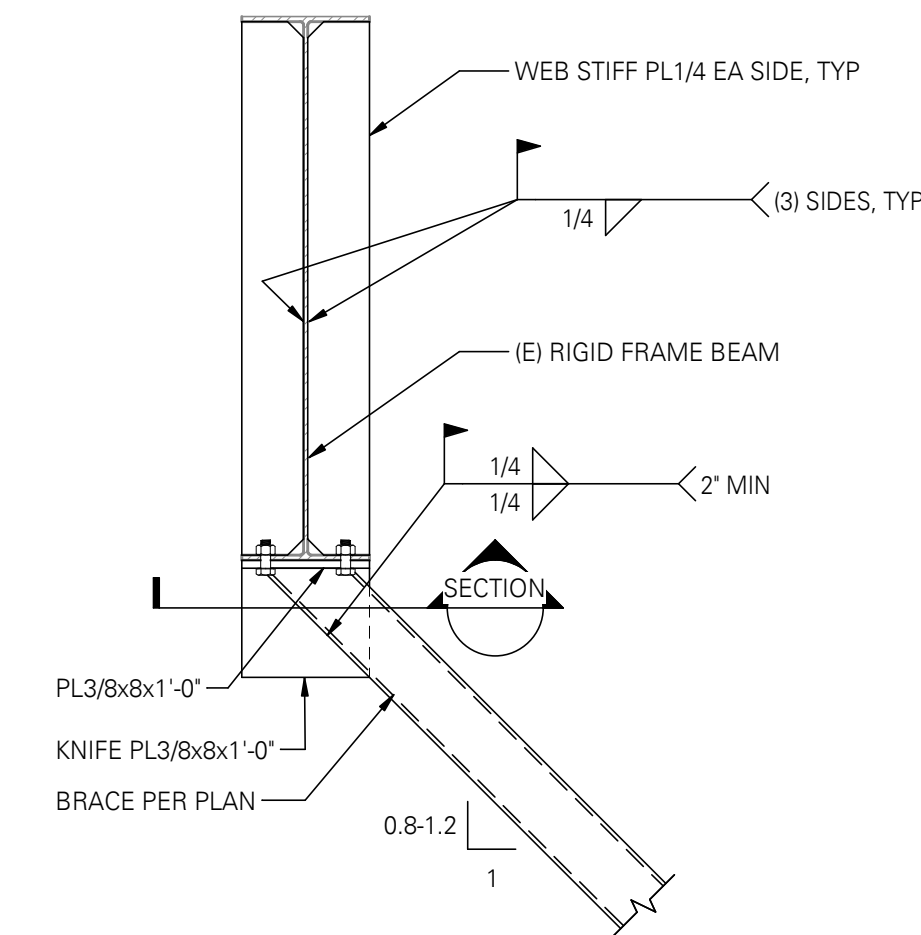
NOTES:

1. MATCH SPACING OF (E) PIPE SUPPORTS (25'-0" MAX)
2. REFERENCE 7 & 8/S2.1 FOR BRACE CONNECTION TO EXISTING STRUCTURE.

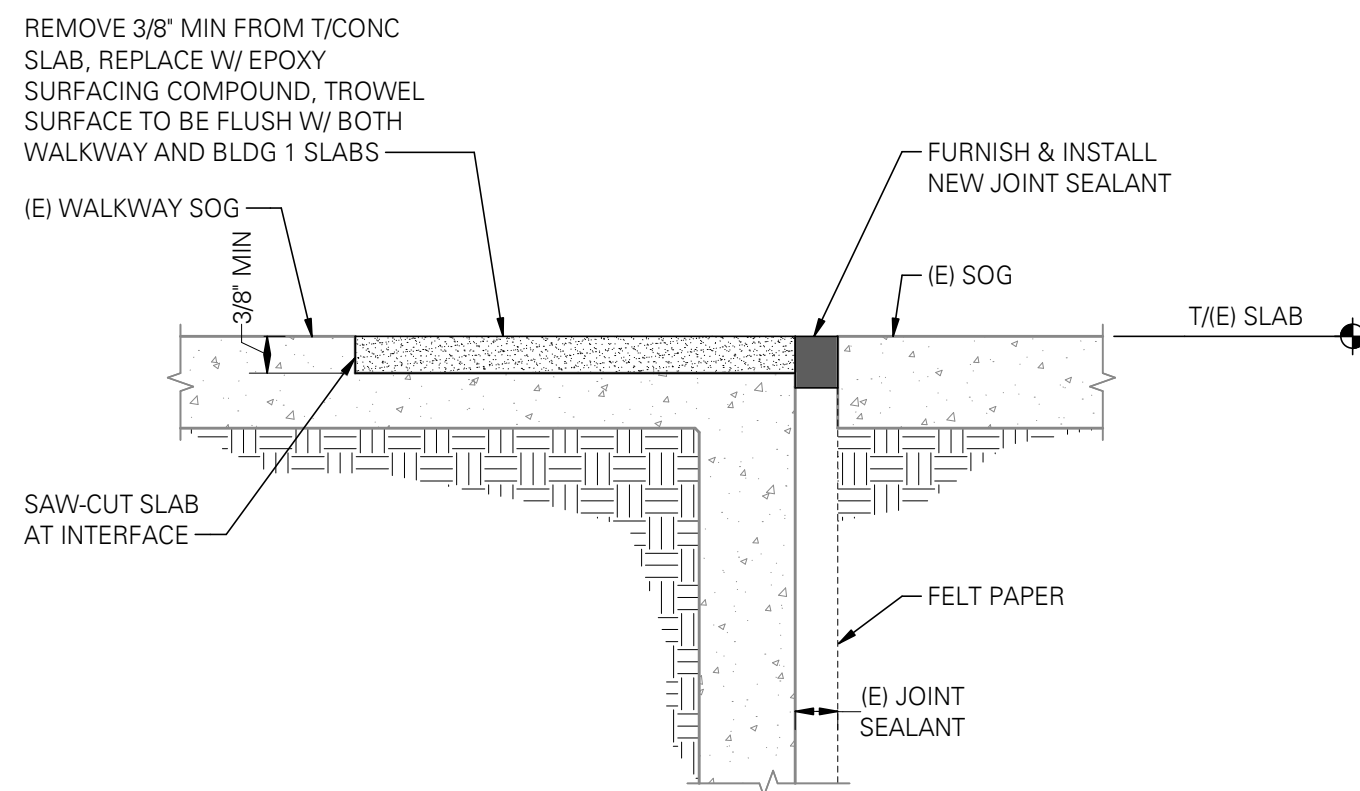
6 SUSPENDED PIPE BRACING
SCALE: 1" = 1'-0"



7 SUSPENDED PIPE BRACING TO EXISTING RIGID FRAME
SCALE: 1" = 1'-0"



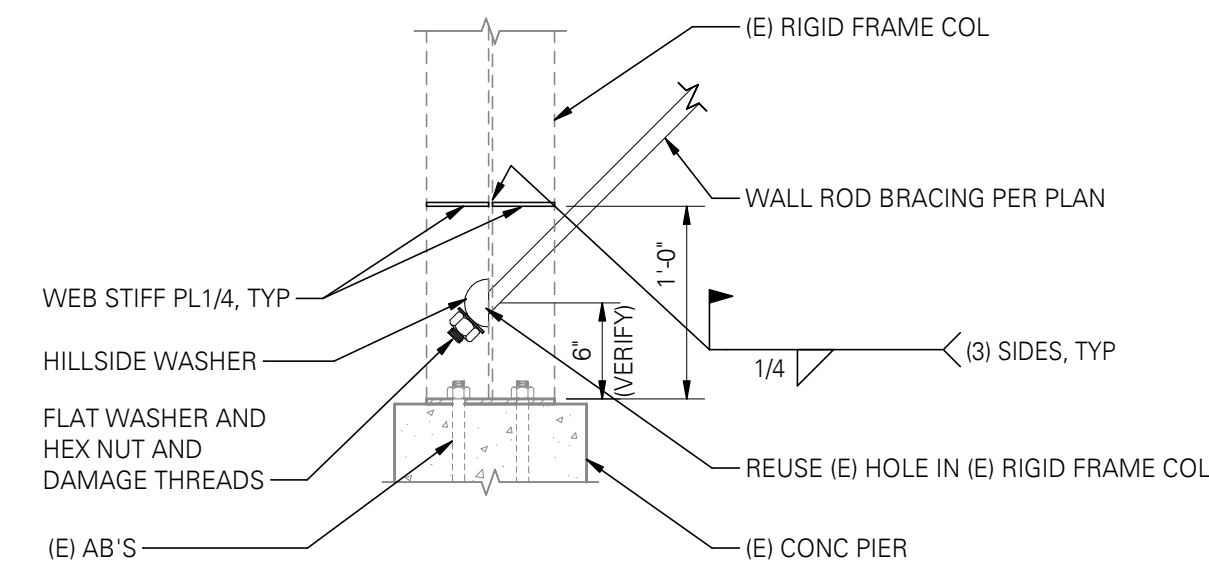
8 SUSPENDED PIPE BRACING TO EXISTING RIGID FRAME
SCALE: 1" = 1'-0"



NOTE:

EPOXY SURFACING COMPOUND TO BE SHERWIN WILLIAMS STEEL-SEAM FT-910.

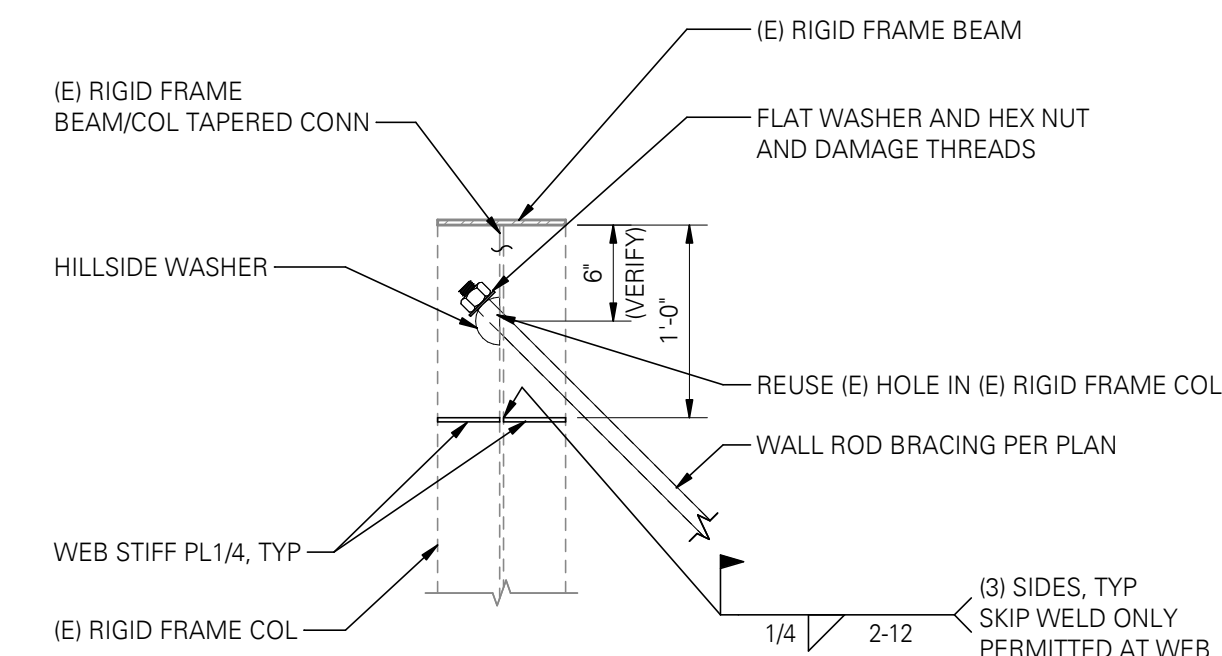
10 WALKWAY SLAB RE-LEVELING DETAIL
SCALE: 3/4" = 1'-0"



NOTE:

CONTRACTOR SHALL REMOVE EXISTING RODS AND HARDWARE, REPAIR EXISTING COATING ON PRIMARY STEEL MEMBER, AND INSTALL NEW RODS AND HARDWARE

11 WALL ROD BRACING TO EXISTING RIGID FRAME
SCALE: 1" = 1'-0"



AT TOP OF COLUMN

DATA	DRAWN BY	CHECKED BY	DATE	DESCRIPTION	BY
			05/2022	BDC RESPONSE RD 1	JLR
			6/24/22	TENSION ROD SCOPE	JLR

PLAN CHECK	REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion

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 CONTRACTOR: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
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 DATE: _____

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 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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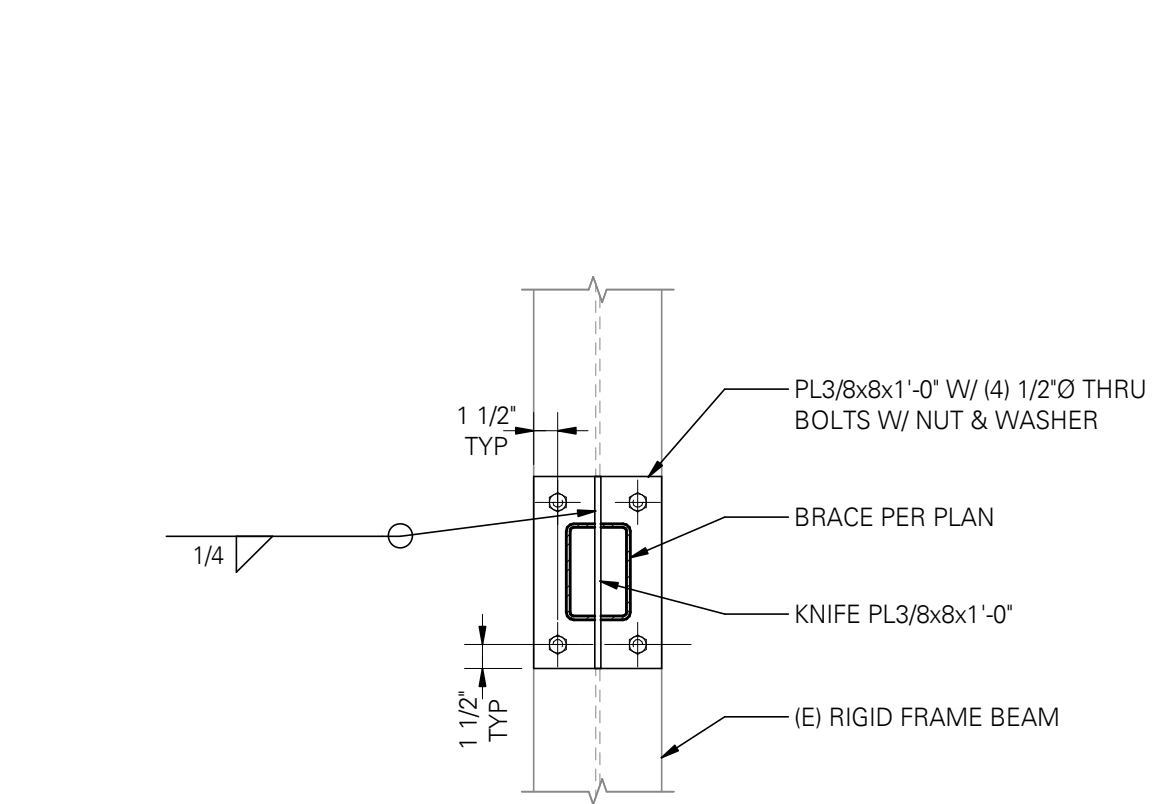
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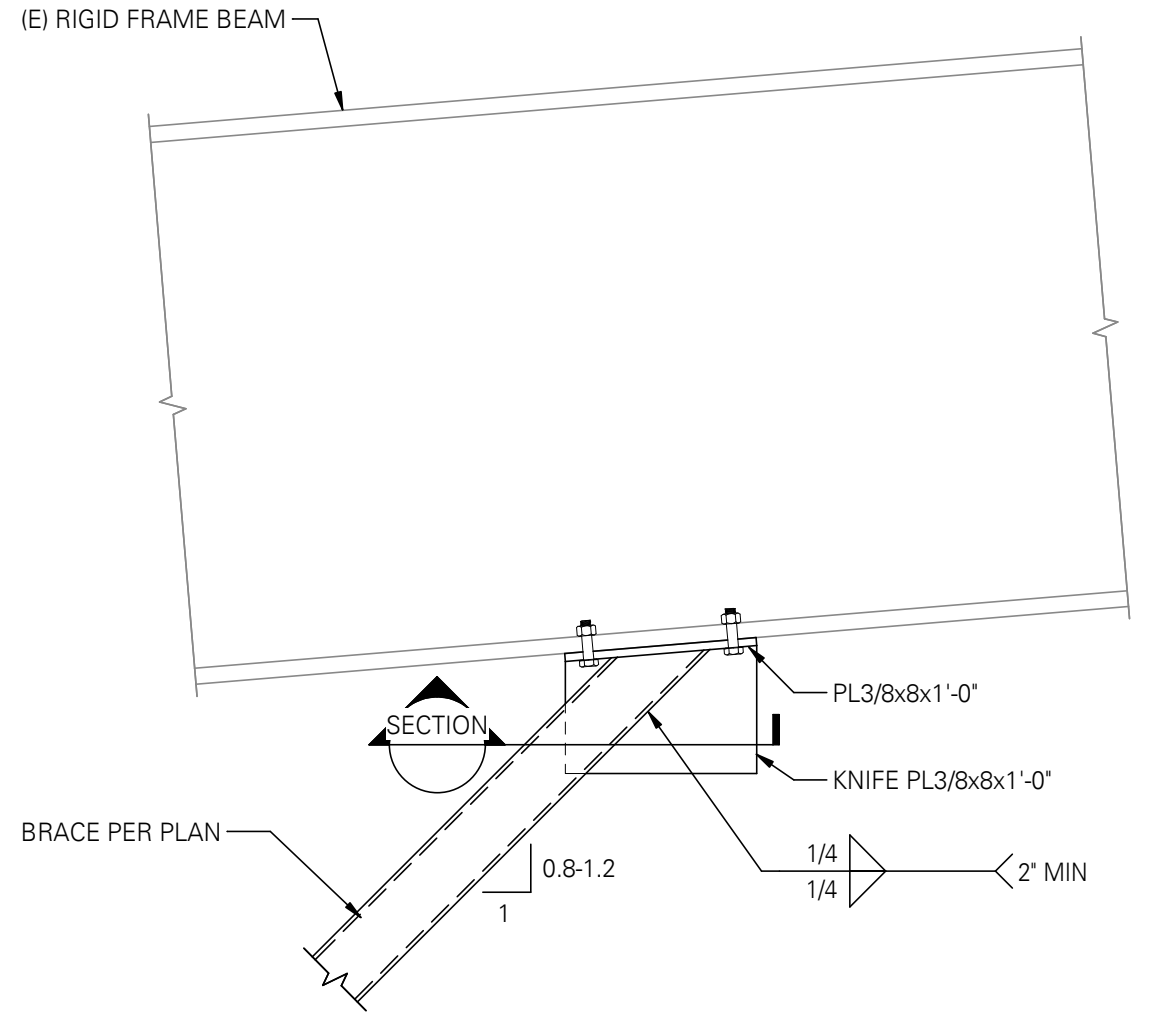
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 49TH
 PAUL D. ROGNESS
 No. SE13924
 REGISTERED PROFESSIONAL ENGINEER
 EXPIRES: 12/31/23
 SEAL

ANCHORAGE WATER & WASTEWATER UTILITY
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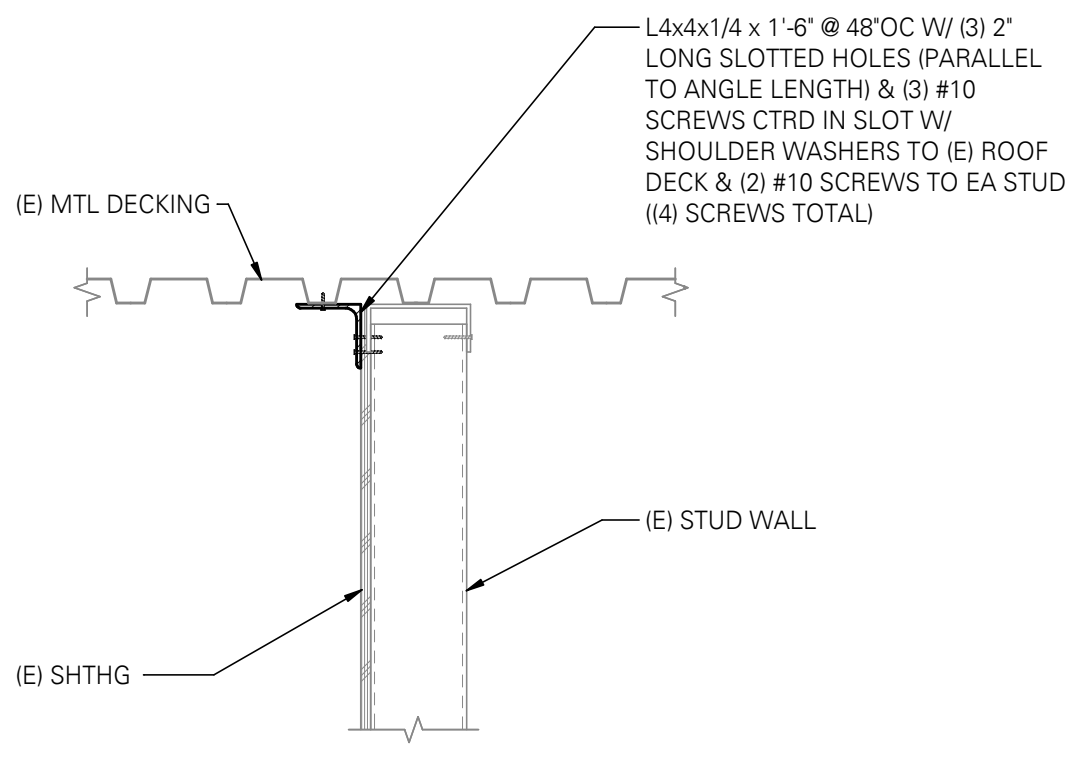
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
 ERWWTF SCHED A EARTHQUAKE REPAIRS
 STRUCTURAL BUILDING 1 DETAILS
 DWG S2.1
 DATE: JUNE 2022 GRID: NW0150
 PROJ. ID.: WM.00151
 SHEET 10 of 24



SECTION

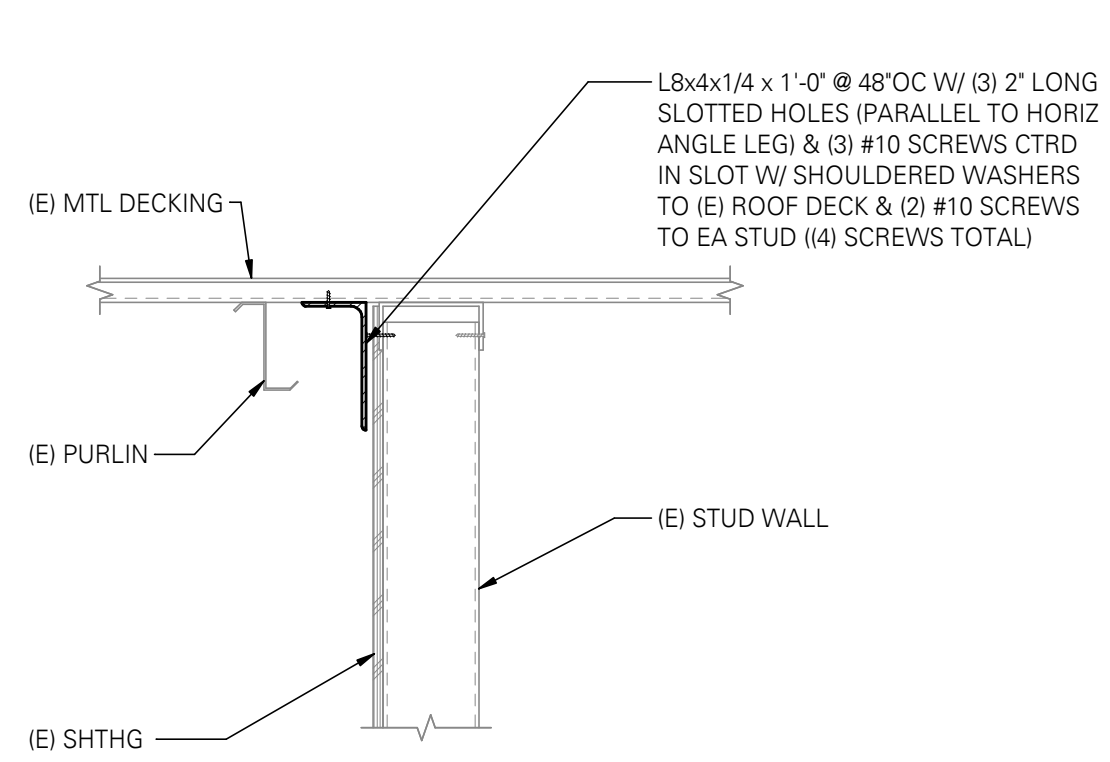


5 SUSPENDED PIPE BRACING TO EXISTING RIGID FRAME
SCALE: 1" = 1'-0"



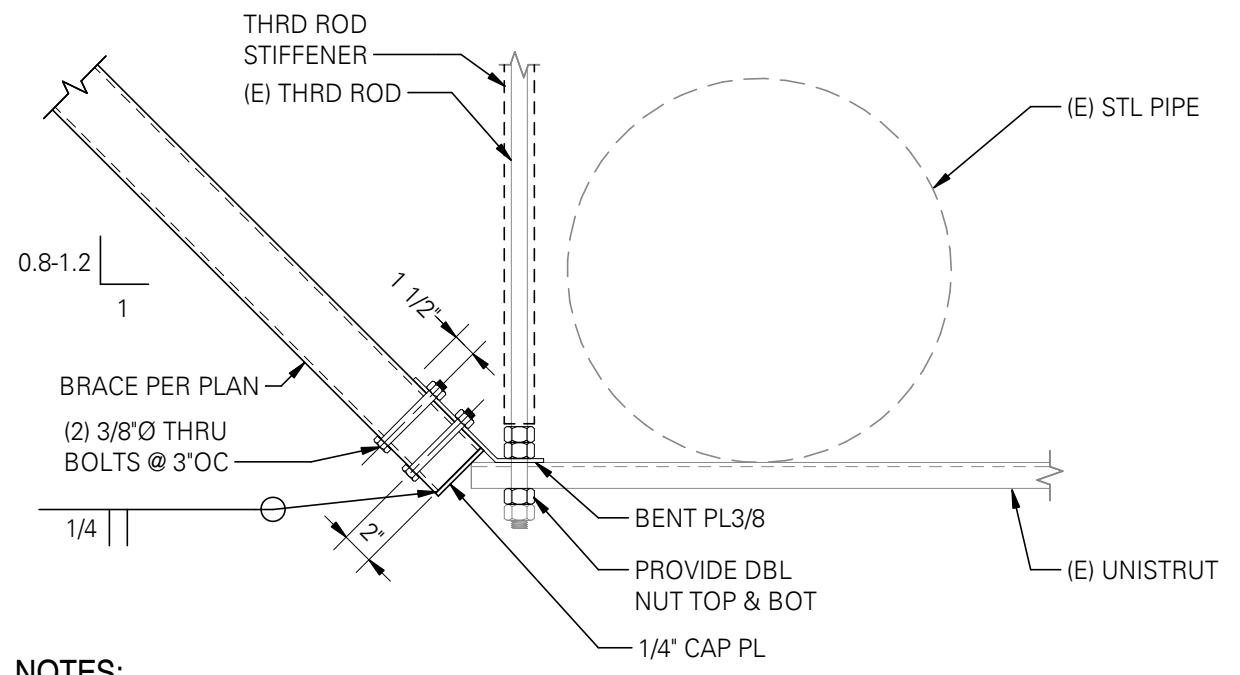
2 STEEL ANGLE CLIP AT MEZZANINE WALL
SCALE: 1" = 1'-0"

NOTE:
CONTRACTOR TO CONFIRM SCREWS WILL NOT PENETRATE THROUGH ROOF MEMBRANE .



3 STEEL ANGLE CLIP AT MEZZANINE WALL
SCALE: 1" = 1'-0"

NOTE:
CONTRACTOR TO CONFIRM SCREWS WILL NOT PENETRATE THROUGH ROOF MEMBRANE .



NOTES:
1. MATCH SPACING OF (E) PIPE SUPPORTS (25'-0" MAX)
2. REFERENCE 5/S2.1 FOR BRACE CONNECTION TO EXISTING STRUCTURE.

6 SUSPENDED PIPE BRACING
SCALE: 1" = 1'-0"

NO.	DATE	DESCRIPTION	BY
1	05/2022	BDC RESPONSE RD 1	JLR
2	6/24/22	TENSION ROD SCOPE	JLR

RECORD DRAWING Note: To be filled out on original drawings upon project completion

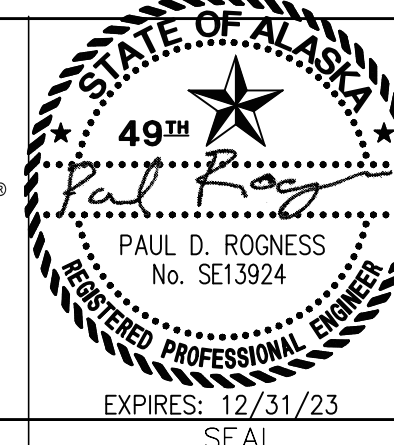
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 BY: _____ DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

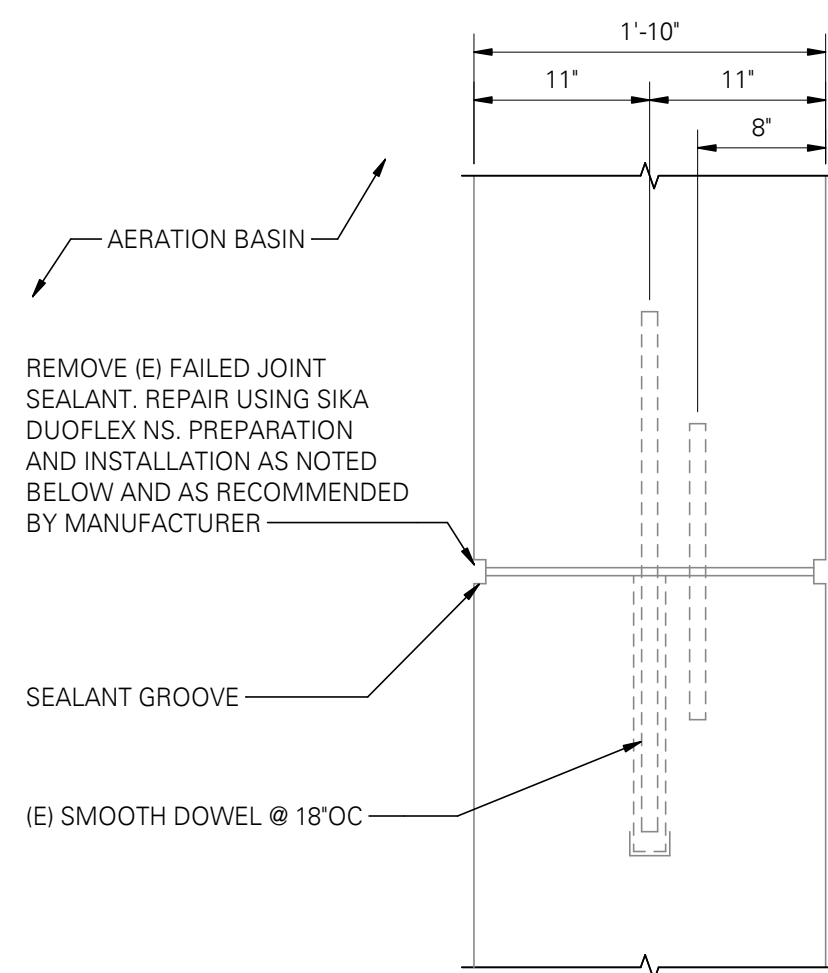
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
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ERWWTF SCHED A EARTHQUAKE REPAIRS		S2.1A
STRUCTURAL BUILDING 2 DETAILS		
DATE: JUNE 2022	GRID: NW0150	SHEET 11 of 24
PROJ. ID.: WM.00151		



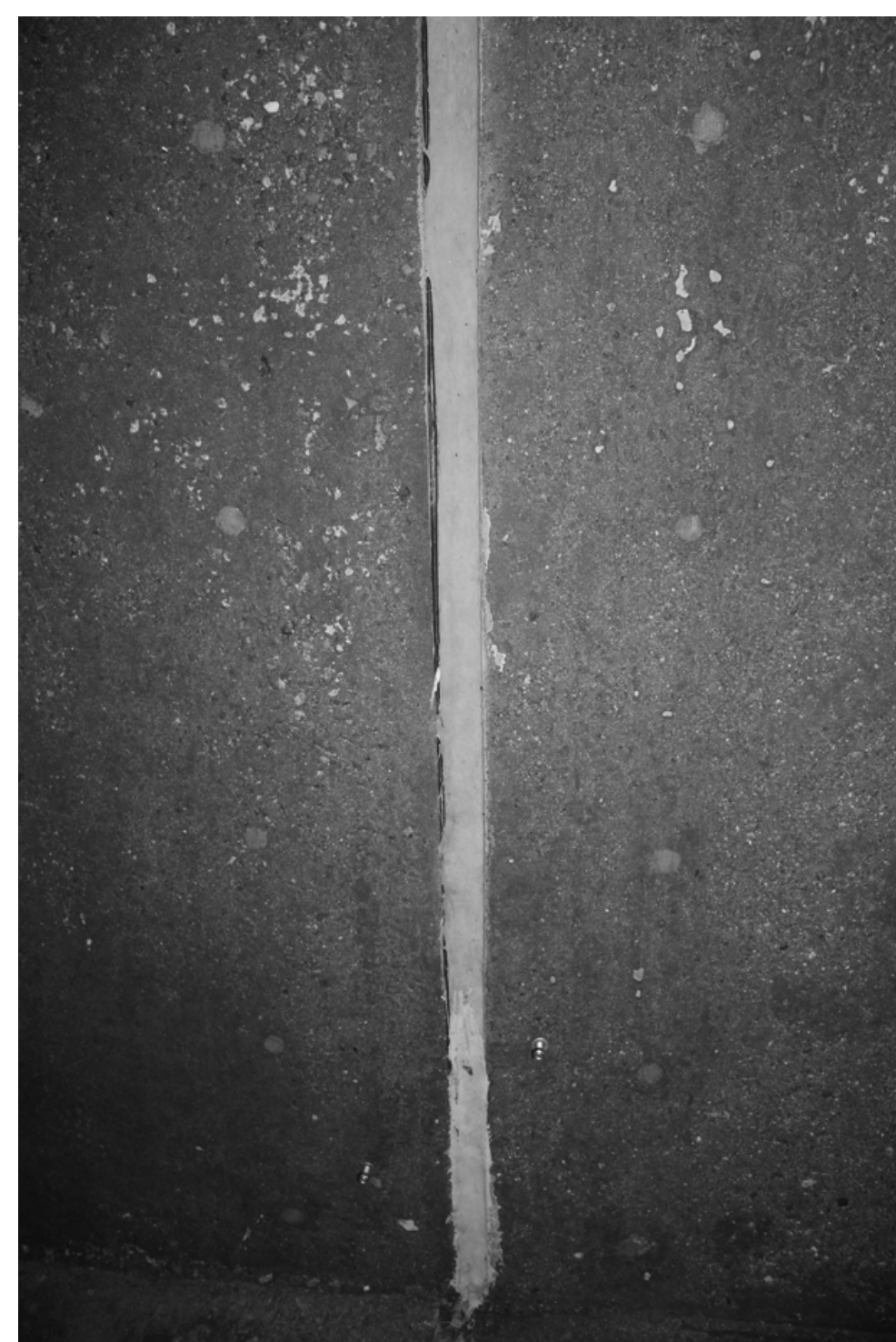
PLAN VIEW

NOTES:

1. CLEAN ALL SURFACES AND ENSURE THEY ARE THOROUGHLY DRY PRIOR TO PRODUCT APPLICATION.
2. ROUGHENED SURFACE TO 1/4" MIN AMPLITUDE TO ENHANCE BONDING.
3. USE DUOFLEX PRIMER-5050 AS RECOMMENDED BY MANUFACTURER.
4. FOR CRACKS LARGER THAN 1/4" WIDE, REFER TO CONTROL JOINT/EXPANSION JOINT REPAIR.
5. FOR CRACKS LESS THAN 1/4", PREPARATION BY NOTCHING OPEN/GROOVING OUT MAY BE REQUIRED. REFER TO MFR RECOMMENDATIONS.
6. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.

1 CONTROL JOINT/EXPANSION JOINT REPAIR

SCALE: 1" = 1'-0"



ELEVATION VIEW

9 AERATION BASIN EXPANSION JOINT

SCALE: 1" = 1'-0"

VERIFY SCALE

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING

IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY

FULL SIZE SCALE
 HORZ SCALE: N/A
 VERT SCALE: N/A

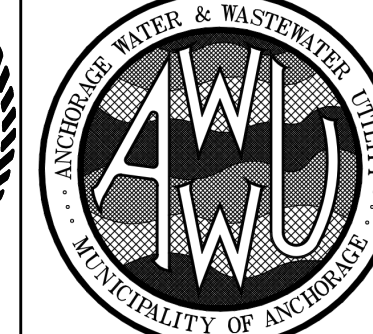
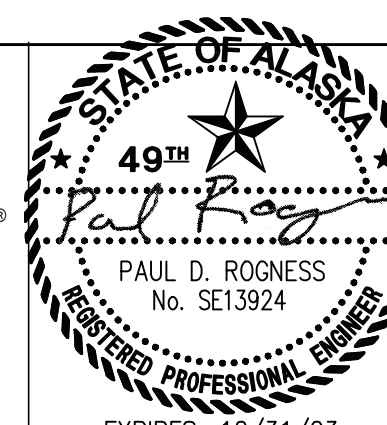
DATA	DRAWN BY	CHECKED BY	DATE	DESCRIPTION	BY

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2. DATA TRANSFERRED BY: _____ COMPANY: _____ DATE: _____	

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ERWWTF SCHED A EARTHQUAKE REPAIRS		
STRUCTURAL AERATION BUILDING AERATION BASIN DETAILS		
DATE: JUNE 2022	GRID: NW0150	SHEET 12 of 24
PROJ. ID.: WM.00151		

**AWWU PLAN SET
NO. 11173**



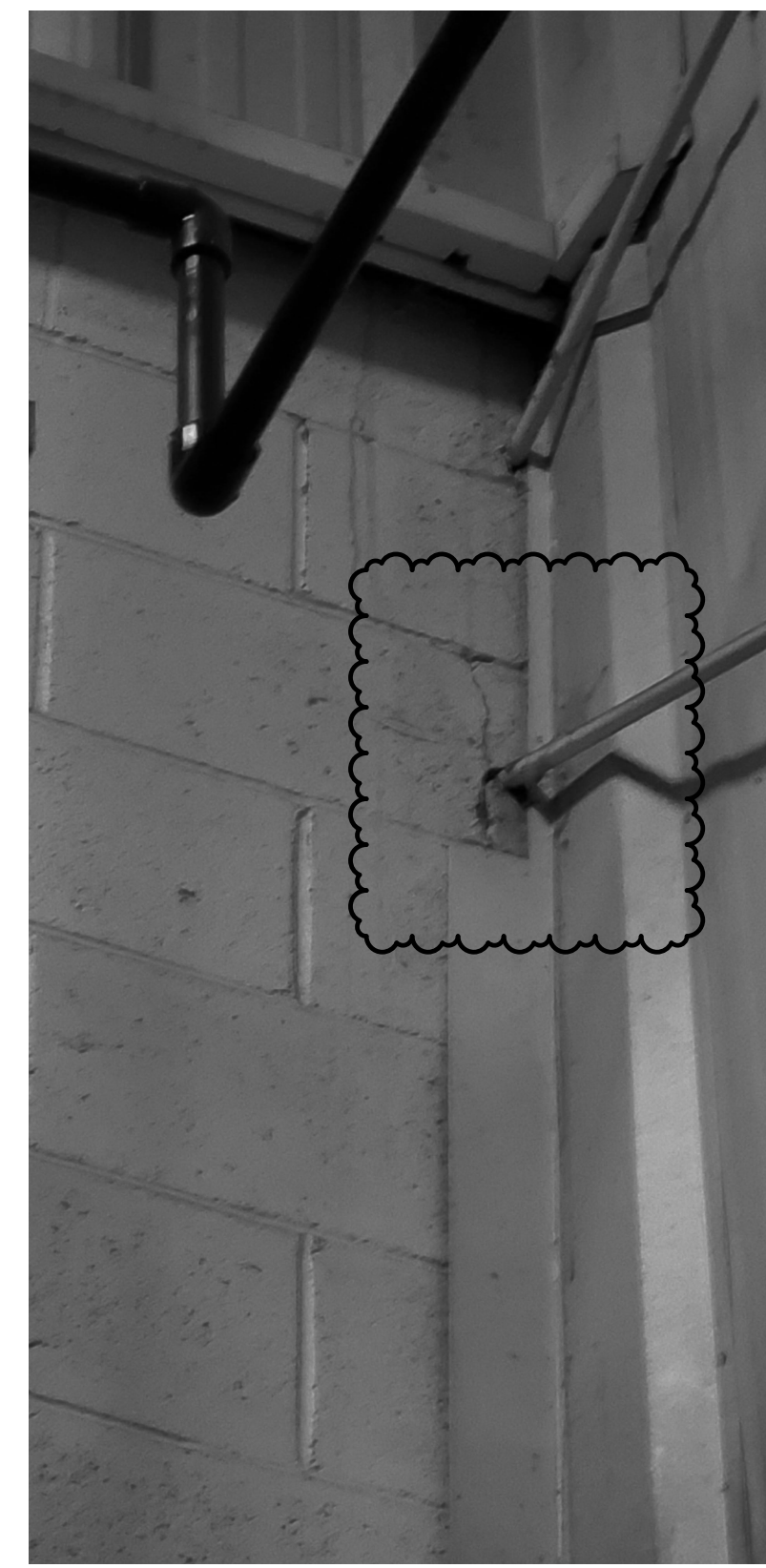
1 ELONGATED BRACES AT OCBF
SCALE: NO SCALE



2 BUILT UP PLATE WASHERS DUE TO ELONGATED BRACES AT OCBF
SCALE: NO SCALE



3 DAMAGED CMU WALL AT STEEL BRACE PENETRATION
SCALE: NO SCALE



10 FLOOR SETTLEMENT
SCALE: NO SCALE



11 DAMAGED PIPE BRACING
SCALE: NO SCALE



12 DAMAGED PIPE BRACING
SCALE: NO SCALE

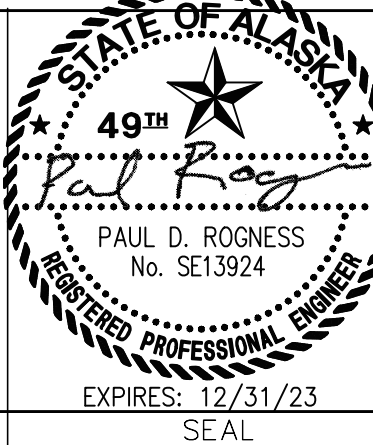
**AWWU PLAN SET
NO. 11173**

VERIFY SCALE			THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING			IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY			FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A			
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY			
						1	05/2022	BDC RESPONSE RD 1	JLR			
						2	6/24/22	TENSION ROD SCOPE	JLR			
PLAN CHECK				REVISIONS								

RECORD DRAWING Note: To be filled out on original drawings upon project completion
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 BY: _____ DATE: _____
 2. DATA TRANSFERRED BY: _____
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 DATA TRANSFER CHECKED BY: _____
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ERWWTF SCHED A EARTHQUAKE REPAIRS			S2.2
STRUCTURAL BUILDING 1 DETAILS			
DATE: JUNE 2022	GRID: NW0150	SHEET 13 of 24	
PROJ. ID.: WM.00151			



1

DAMAGED CLIPS AT MEZZANINE WALL

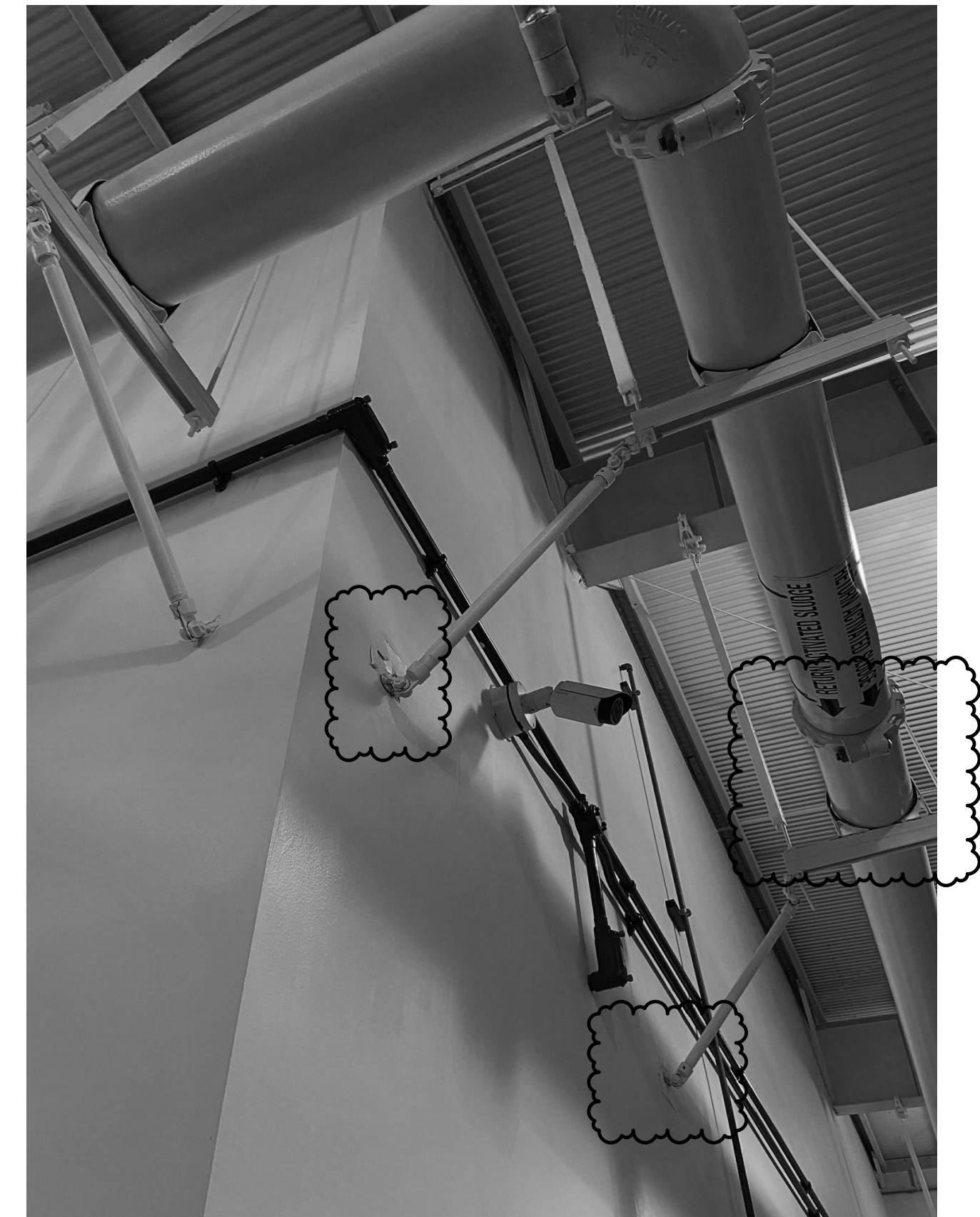
SCALE: NO SCALE



9

DAMAGED CLIPS AT MEZZANINE WALL

SCALE: NO SCALE



12

DAMAGED PIPE BRACING

SCALE: NO SCALE

VERIFY SCALE

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATE	DESCRIPTION	BY
			1 05/2022	BDC RESPONSE RD 1	JLR
			2 6/24/22	TENSION ROD SCOPE	JLR

RECORD DRAWING Note: To be filled out on original drawings upon project completion

1. DATA PROVIDED BY: _____

2. DATA TRANSFERRED BY: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.

DATA TRANSFER CHECKED BY: _____

DATE: _____

BY: _____ TITLE: _____

DATE: _____

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CONSULTANT

PAUL D. ROGNESS
No. SE13924
EXPIRES: 12/31/23
SEAL

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG
ERWWTF SCHED A EARTHQUAKE REPAIRS		S2.2A
STRUCTURAL BUILDING 2 DETAILS		
DATE: JUNE 2022	GRID: NW0150	SHEET 14 of 24
PROJ. ID.: WM.00151		

**AWWU PLAN SET
NO. 11173**

SUBMITTALS: In accordance with MASS & section 01 13 00 Submittals, submit the following documents to the SER for review:

- (1) SHOP DRAWINGS complying with AISC 360 Sections M1and N3 and AISC 303 Section 4.
(2) ERECTION DRAWINGS complying AISC 360 Sections M1and N3 and AISC 303 Section 4.
(3) Weld Procedure Specifications (WPS's) for shop and field welding.
(4) Manufacturers Certificates of Conformance for electrodes, fluxes and gases (welding consumables).

Make copies of the following documents available to the SER or Owner's Inspection Agency in electronic or printed form prior to fabrication per AISC 360 Section N3.2 requirements:

- (1) Fabricator's written Quality Control Manual that includes, as a minimum:
a. Material Control Procedures
b. Inspection Procedures
c. Non-conformance Procedures
(2) Steel & Anchor Rod suppliers' Material Test Reports (MTR's) indicating the compliance with specifications.
(3) Fastener manufacturer's Certification documenting conformance with the specification.
(4) Filler metal manufacturer's product data for Shielded Metal Arc Welding (SMAW), Flux-Cored Arc Welding (FCAW) and Gas Metal Arc Welding (GMAW) indicating:
a. Product specification compliance
b. Recommended welding parameters
c. Recommended storage and exposure requirements including baking
d. Limitations of use
(5) Procedure Qualification Records (PQR's) for WPS's that are not prequalified in accordance with AWS.
(6) Welding personnel Performance Qualification Records (WPQR) and continuity records conforming to AWS standards.

MATERIALS:

Structural steel materials shall conform to materials and requirements listed in AISC 360 section A3 including, but not limited to:
Angle (L) ShapesASTM A36, Fy (Yield Stress) = 36 ksi
Structural Plate (PL)ASTM A36, Fy = 36 ksi
Hollow Structural Section - Square Rect (HSS), ASTM A500, Grade B Fy = 46 ksi
Washers (Hardened Flat or Beveled)ASTM F436, Grade and Finish per RCSC Table 2.1
High Strength Threaded RodsASTM A449, Fy = 50 ksi
High Strength Threaded RodsASTM A193, Grade B7, Fy = 100 ksi

FABRICATION:

- 1) Conform to AISC 360 Section M2 "Fabrication" and AISC 303 Section 6 "Shop Fabrication".
2) Quality Control (QC) shall conform to:
a. AISC 360 Chapter N "Quality Control and Quality Assurance" and
b. AISC 303 Section 8 "Quality Control".
c. Fabricator and Erector shall establish and maintain written Quality Control (QC) procedures per AISC 360 section N3.
d. Fabricator shall perform self-inspections per AISC 360 section N5 to ensure that their work is performed in accordance with Code of Standard Practice, the AISC Specification, Contract Documents and the Applicable Building Code.
e. QC inspections may be coordinated with Quality Assurance inspections per Section N5.3 where fabricators QA procedures provide the necessary basis for material control, inspection, and control of the workmanship expected by the Special Inspector.

WELDING:

- 1) Welding shall conform to AWS D1.1 and D1.8 as applicable for Seismic elements with Prequalified Welding Processes except as modified by AISC 360 section J2 and AISC 341 as applicable. Welders shall be qualified in accordance with AWS D1.1 (and D1.8 for Demand Critical Welds where applicable) requirements.
2) Use 70ksi strength, low-hydrogen type electrodes (E7018) or E71T as appropriate for the process selected.
3) Welding of high strength anchor rods is prohibited unless approved by Engineer.
4) Welding of headed stud anchors shall be in accordance with AWS D1.1 Chapter 7 "Stud Welding".

ERECTION:

- 1) Conform to AISC 360 Section M4 "Erection" and AISC 303 Section 7 "Erection".
2) Conform to AISC 360 Chapter N "Quality Control and Quality Assurance" and AISC 303 Section 8.
a. The Erector/Contractor shall maintain detailed erection quality control procedures that ensure that the work is performed in accordance with these requirements and the Contract Documents.
3) Steel work shall be carried up true and plumb within the limits defined in AISC 303 Section 7.13.
4) High strength bolting shall comply with the RCSC requirements including RCSC Section 7.2 "Required Testing", as applicable and AISC 360 Chapter J, Section M2.5 and Section N5.6.
5) The contractor shall provide temporary bracing and safety protection required by AISC 360 Section M4.2 and AISC 303 Section 7.10 and 7.11.
6) All bolts and threaded rods shall be tightened to "Snug-tight" condition per RCSC, unless noted otherwise.

STRUCTURAL STEEL - SEISMIC PROVISIONS

REFERENCE STANDARDS: Conform to the standards in the STRUCTURAL STEEL section and the following:

- 1) ANSI/AISC 341-16 - "Seismic Provisions for Structural Steel Buildings"
2) AWS D1.8:2009 - "Structural Welding Code - Seismic Supplement"

SCOPE: In addition to the standards specified in the STRUCTURAL STEEL Section of these GENERAL REQUIREMENTS, Structural Steel that is part of or that transfers seismic loads to the designated Seismic Force Resisting System (SFRS) defined in the DESIGN CRITERIA AND LOADS section of these GENERAL REQUIREMENTS, shall comply with the applicable SEISMIC PROVISIONS below.

SEISMIC FORCE RESISTING SYSTEM (SFRS): The SFRS is an assemblage of beams, columns, and braces that have been specially proportioned into vertical frame systems to resist lateral seismic forces. Beyond the frames are typically other horizontal members connecting to the vertical shear-resisting frames that collect and deliver concentrated seismic forces to the vertical shear elements. These elements include "collectors", "drags", and "diaphragms" (such as the floor slab and roof deck), which also form part of the SFRS and are subject to the "Seismic Provisions" of AISC 341.

DESIGNATION of the primary SFRS Framing System for this project is provided in the DESIGN CRITERIA AND LOADS section of these GENERAL REQUIREMENTS. In addition to the primary steel SFRS, Stability

of the structure under seismic loads is reliant upon structural steel collectors, drag struts, and diaphragm chords which are also governed by the Seismic Provisions.

Lowest Anticipated Service Temperature (LAST): The primary SFRS framing for this project is to be enclosed and expected to be maintained with the LAST of 50 degrees Fahrenheit.

Structural members and their connections considered in the design of the SFRS are subject to the special Seismic Provisions of this section. Subject elements require special attention to detailing, material control, documentation, fabrication, inspection, and protections from all trades. Special requirements include but are not limited to:

- 1) Identification of SFRS Members and their Connections on shop and erection drawings; include special detailing, welding and inspection requirements.

QUALITY CONTROL and QUALITY ASSURANCE PLAN: Quality Control (QC) by Contractor and Quality Assurance (QA) by an approved Special Inspection Agency for members of the SFRS shall be provided in accordance with AISC 341, Chapter J and coordinated per Section J6.4.

- 1) Fabricator and Erector shall have Quality Control Program per AISC 360 Section N2.
a. Fabricator and Erector shall provide access to the Quality Assurance/Special Inspection Agency, prior to the start of work, for purposes of review of the Quality Control Program required per AISC 360 Section N2 per IBC 1704.2.5.
2) Special Inspections required per IBC sections 1705.2.1 and 1705.12.1 and the STATEMENT OF SPECIAL INSPECTIONS section of these GENERAL REQUIREMENTS.

SUBMITTALS:

- (1) Submit Fabricator and Erector Documents per AISC 360 Section N3 and AISC 341 Section J2.1.
(2) Shop drawings of the SFRS shall be prepared in accordance with AISC 303 Section 4, AISC 341 Sections A4.1, A4.2, and I1 and shall include the following:
• DESIGNATION of the SFRS.
• MEMBER and CONNECTIONS of the SFRS clearly identified.
(3) Weld Procedure Specifications (WPS's).
(4) Bolt Installation Procedures.
(5) Material Data For Demand Critical Welds per AISC 341 J2.1(3).

SFRS MATERIALS: Structural steel part of the SFRS shall meet the requirements of AISC 341, Section A3.1. Reference the MATERIALS section of the STRUCTURAL STEEL for specific ASTM specifications.

SFRS WELDING REQUIREMENTS: All welding of the SFRS shall conform to the Structural Welding Code, AWS D1.1 and the Seismic Supplement, AWS D1.8, including, both shop fabrication and field erection welding.

- 1) WELDING PROCEDURE SPECIFICATIONS (WPS): Welding shall be done with appropriate Weld Procedures prepared in accordance with AWS D1.1, AWS D1.8 clause 6.1. Submit for review per AISC 341 Section I2.3.
2) FILLER METAL: Welds of members of the SFRS shall be made with filler metal conforming to the requirements of AISC 341 Section A3.4 and AWS D1.8 clause 6.3, which can produce welds that have a minimum Charpy V-Notch toughness of 20 foot-pounds at 0 degrees Fahrenheit. Submit evidence of compliance.

DRAWING LEGEND

Table with columns: MARK, DESCRIPTION, MARK, DESCRIPTION. Includes symbols for F2.0 FOOTING SYMBOL, 2W4 SHEAR WALL SYMBOL, REVISION TRIANGLE, ROOF/FLOOR DIAPHRAGM NAILING SYMBOL, STUD BUBBLE, etc.

ABBREVIATIONS

Table listing abbreviations and full names, including: L Angle, AB Anchor Bolt, ADDL Additional, ADH Adhesive, ALT Alternate, ARCH Architectural, etc.

Table for drawing scale verification with columns: DATA, DRAWN BY, CHECKED BY, REV, DATE, DESCRIPTION, BY. Includes rows for BDC RESPONSE RD 1 and TENSION ROD SCOPE.

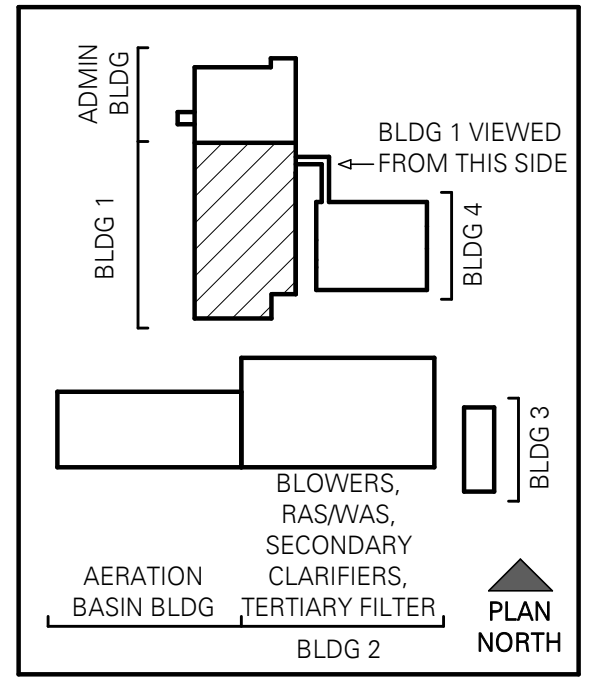
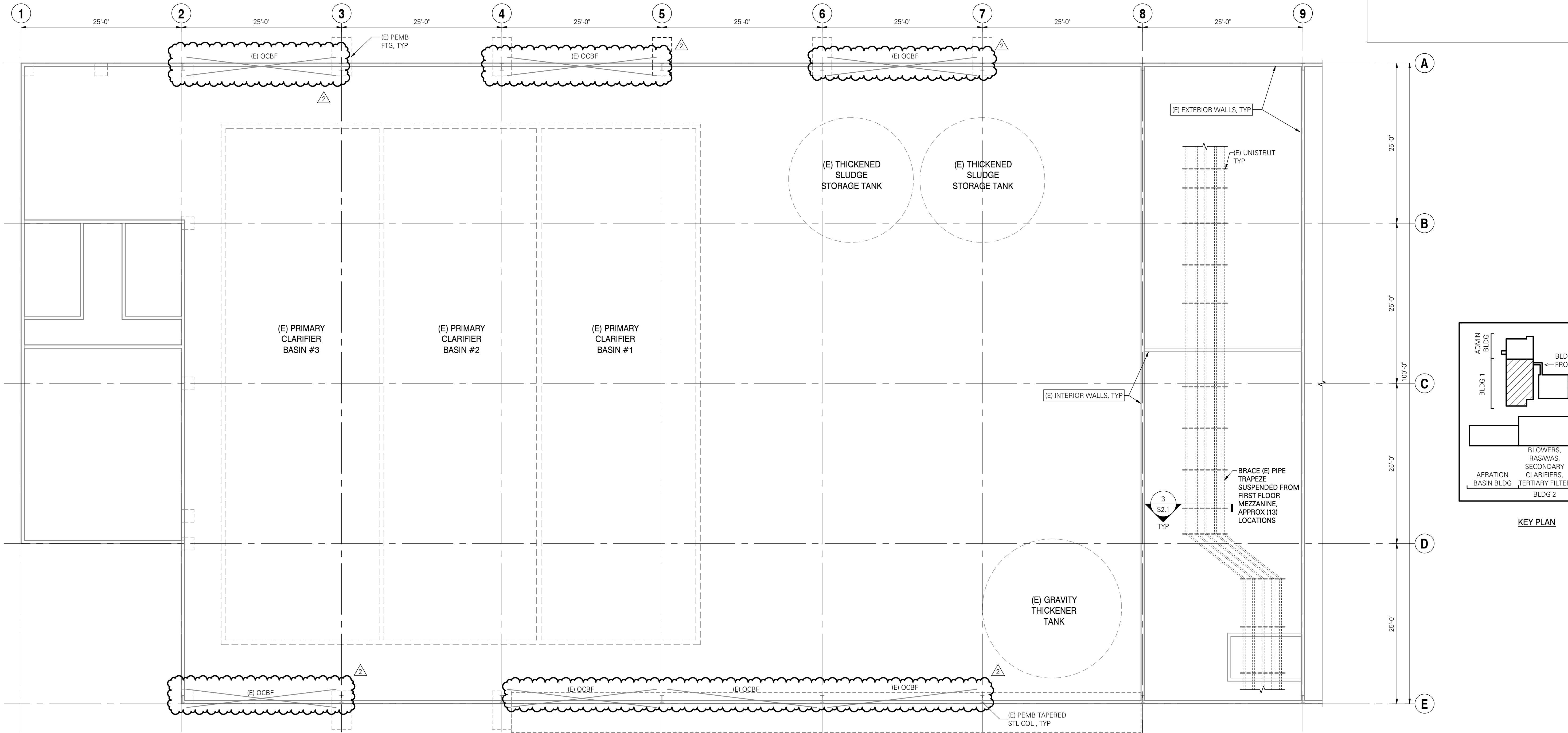
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FOUNDATION PLAN NOTES:

- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
- ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
- CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.

BUILDING 1 FOUNDATION AND FIRST FLOOR STUD WALL PLAN
SCALE: 1/8"=1'-0"

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY		FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A			
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
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						2	6/24/22	TENSION ROD SCOPE	JLR
PLAN CHECK					REVISIONS				

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COMPANY: _____
DATE: _____

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COMPANY: _____
BY: _____ TITLE: _____
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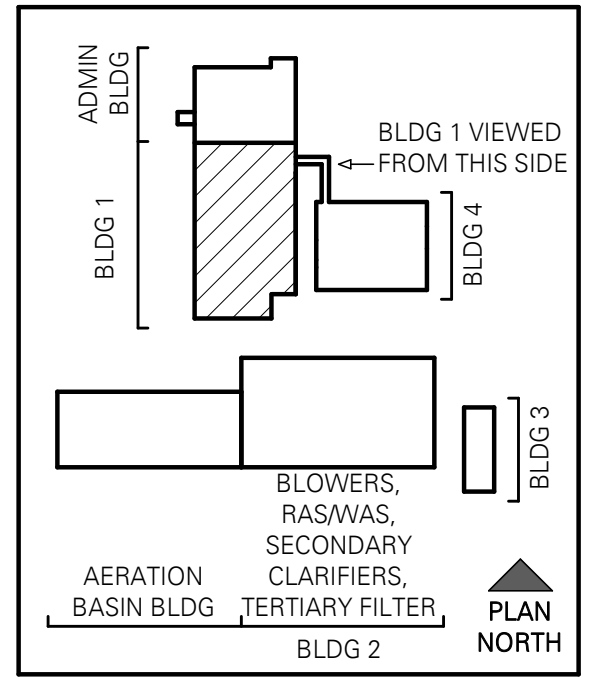
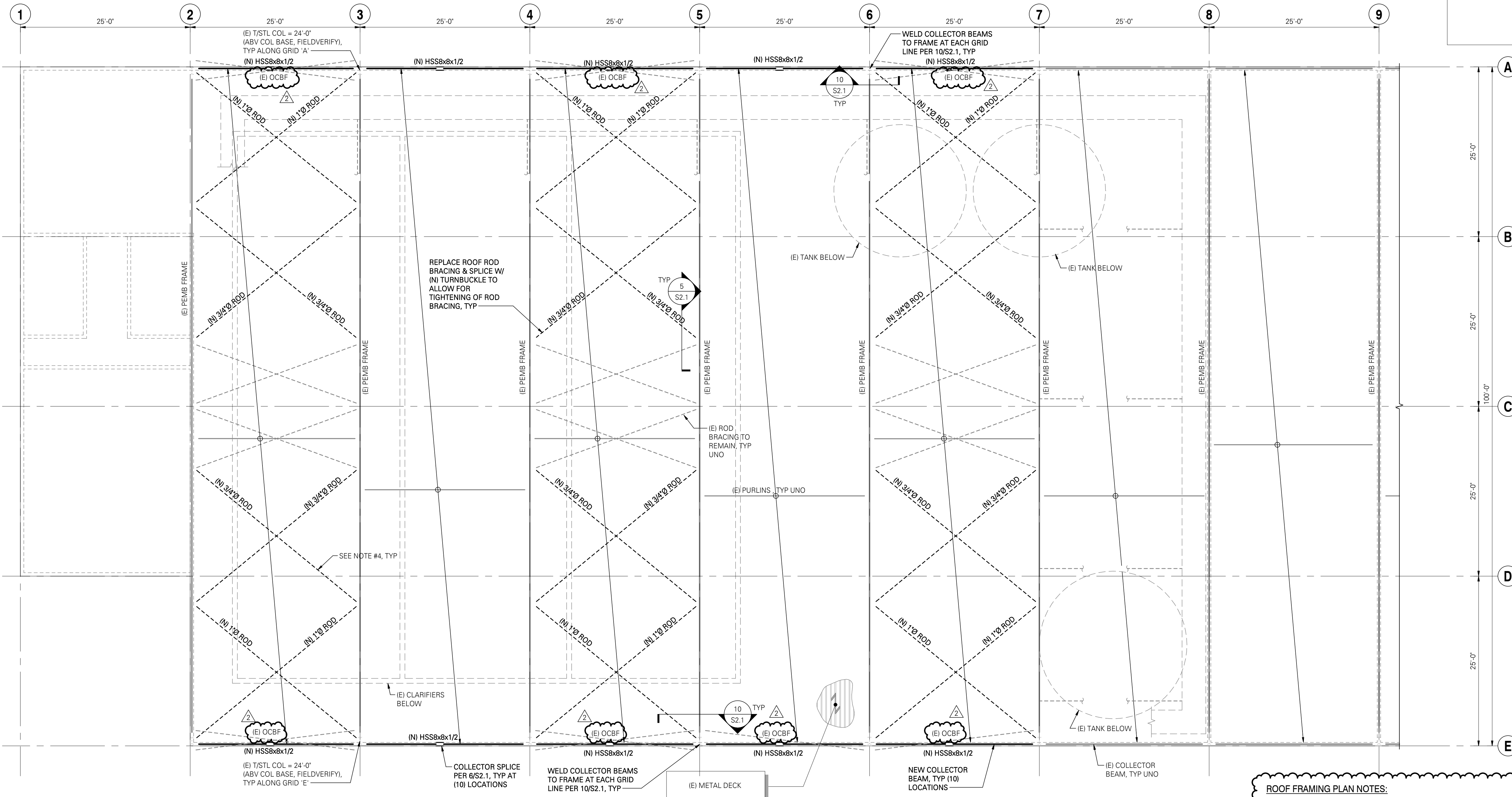
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49TH
PAUL D. ROGNESS
No. SE13924
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 12/31/23

ANCHORAGE WATER & WASTEWATER UTILITY
AWWU
MUNICIPALITY OF ANCHORAGE

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WATER & WASTEWATER UTILITY
ERWWTF SCHED B STRUCTURAL RETROFITS
STRUCTURAL BUILDING 1 FOUNDATION AND FIRST FLOOR STUD WALL PLAN
DATE: JUNE 2022 GRID: NW0150
PROJ. ID.: WM.00151

DWG
S1.0
SHEET 18 of 24



**AWWU PLAN SET
NO. 11173**

ROOF FRAMING PLAN NOTES:

- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
- ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
- CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
- REPLACE SUSPENDED CEILING IN ADMINISTRATION PORTION OF BUILDING 1 PER MOA HANDOUT A.04 AND 7/S2.1.
- TYPICAL DETAILS PER:
4/S2.1 ROOF DECK TO RIGID FRAME

BUILDING 1 ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

VERIFY SCALE			IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY			FULL SIZE SCALE		
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION
						1	05/2022	BDC RESPONSE RD 1
						2	6/24/22	TENSION ROD SCOPE
PLAN CHECK			REVISIONS					

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COMPANY: _____
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DATA TRANSFER CHECKED BY: _____
COMPANY: _____
BY: _____ TITLE: _____
DATE: _____

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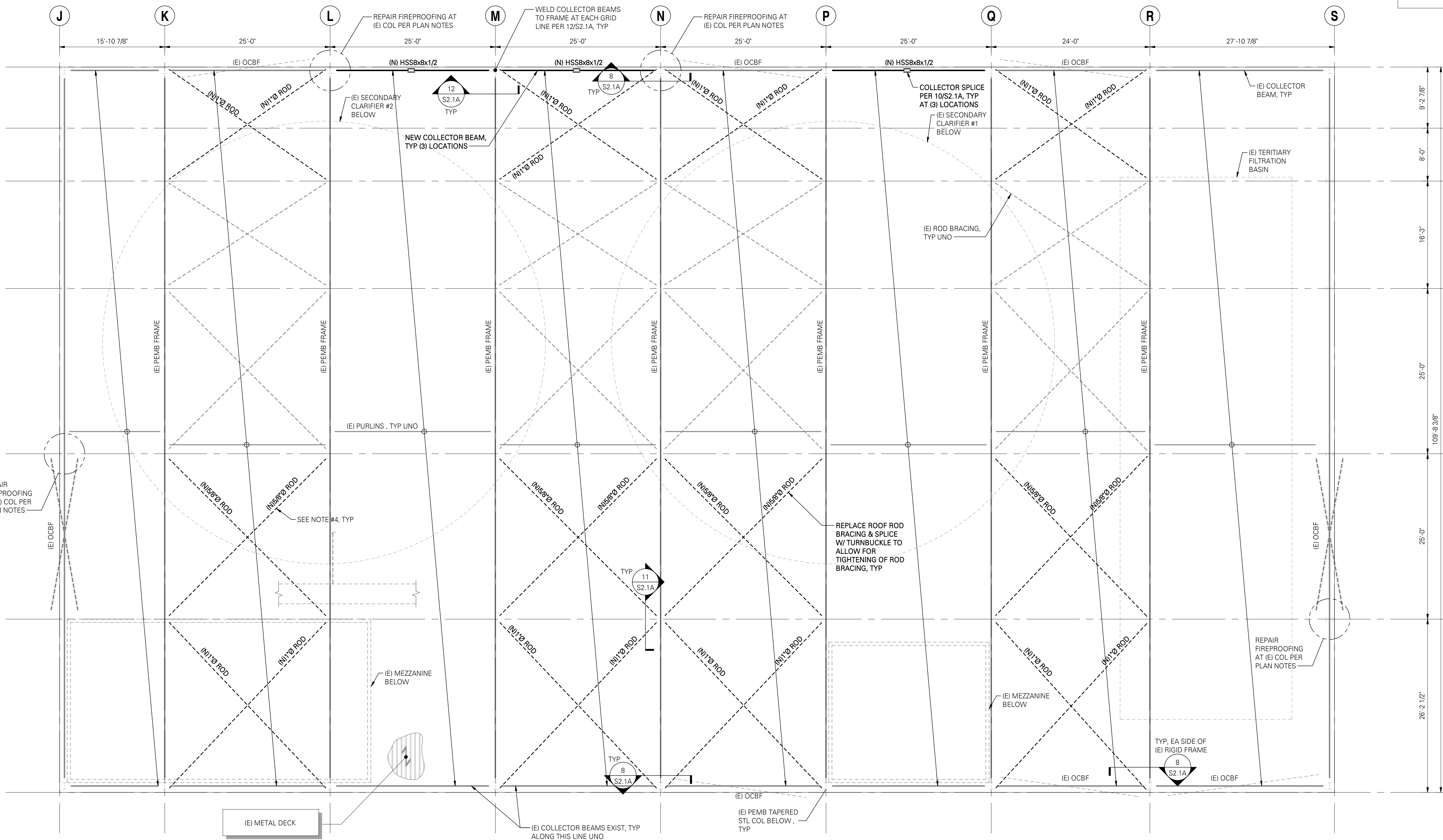
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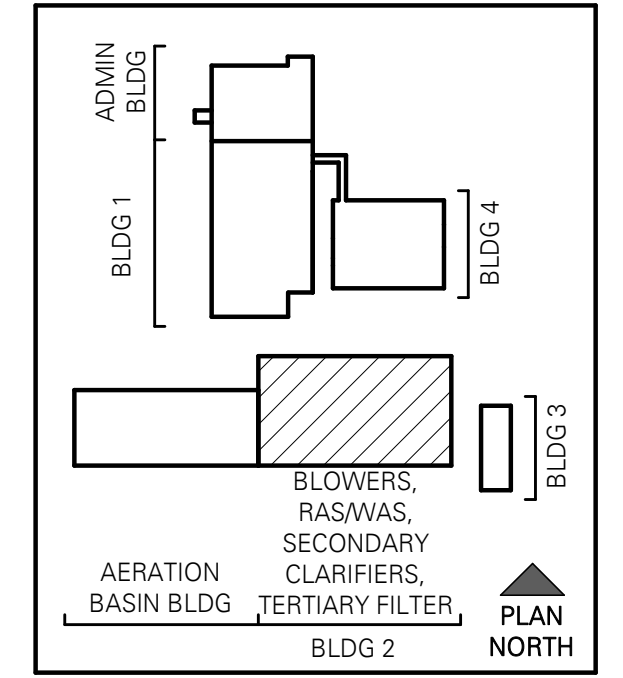
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ERWWTF SCHED B STRUCTURAL RETROFITS		S1.1
STRUCTURAL BUILDING 1 ROOF FRAMING PLAN		
DATE: JUNE 2022	GRID: NW0150	SHEET 19 of 24
PROJ. ID.: WM.00151		



- ROOF FRAMING PLAN NOTES:**
- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
 - ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
 - CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
 - AT ALL LOCATIONS WHERE NEW ROD BRACES ARE SHOWN, CONTRACTOR SHALL REMOVE EXISTING RODS AND HARDWARE, REPAIR EXISTING COATING ON PRIMARY STEEL MEMBERS, AND INSTALL NEW RODS AND HARDWARE.
 - PREPARE EXISTING COLUMNS WITH CHIPPED/DAMAGED SPRAY-APPLIED FIRE-RESISTIVE MATERIAL (SFRM) AND FURNISH AND APPLY NEW FIRE RESISTIVE MATERIALS PER APPLICATION SCHEDULE IN SPECIFICATION SECTION 07 81 00 APPLIED FIRE RESISTIVE MATERIALS. SFRM REQUIRES SPECIAL INSPECTION PER IBC SECTION 1705.14.
 - TYPICAL DETAILS PER:
4/S2.1A ROOF DECK TO RIGID FRAME

**AWWU PLAN SET
NO. 11173**



BUILDING 2 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

VERIFY SCALE			IF BAR IS NOT ONE INCH ON ORIGINAL DRAWING			FULL SIZE SCALE		
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION
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						2	06/24/22	TENSION ROD SCOPE
PLAN CHECK			REVISIONS					

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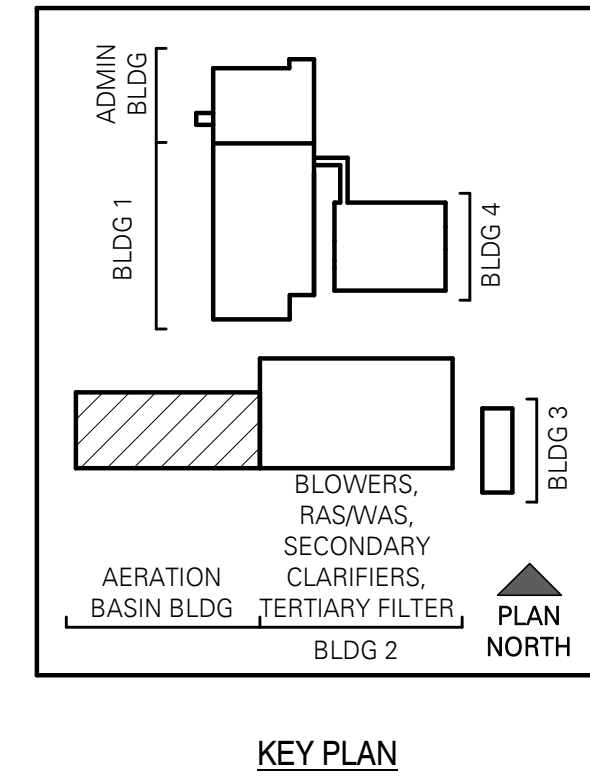
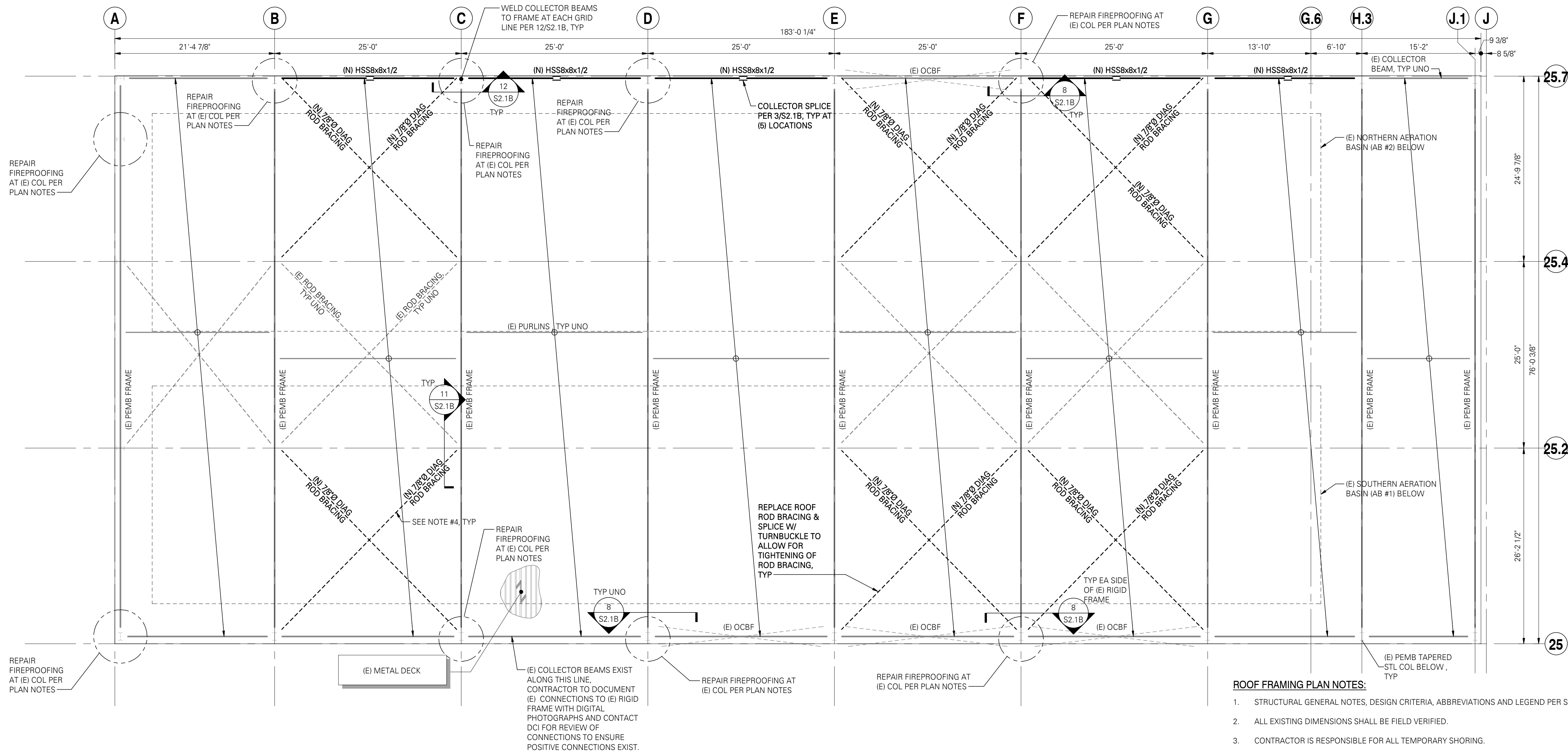
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 No. SE13924
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 EXPIRES: 12/31/23

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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY
 ERWWTF SCHED B STRUCTURAL RETROFITS
 STRUCTURAL BUILDING 2 ROOF FRAMING PLAN
 DATE: JUNE 2022 GRID: NW0150
 PROJ. ID.: WM.00151
 SHEET 20 of 24
 DWG S1.1A

**AWWU PLAN SET
NO. 11173**



- ROOF FRAMING PLAN NOTES:**
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 - TYPICAL DETAILS PER:

4/S2.1B ROOF DECK TO RIGID FRAME
AERATION BUILDING ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

VERIFY SCALE				IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY				FULL SIZE SCALE			
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			06/24/22	TENSION ROD SCOPE	JLR						
PLAN CHECK				REVISIONS							

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COMPANY: _____
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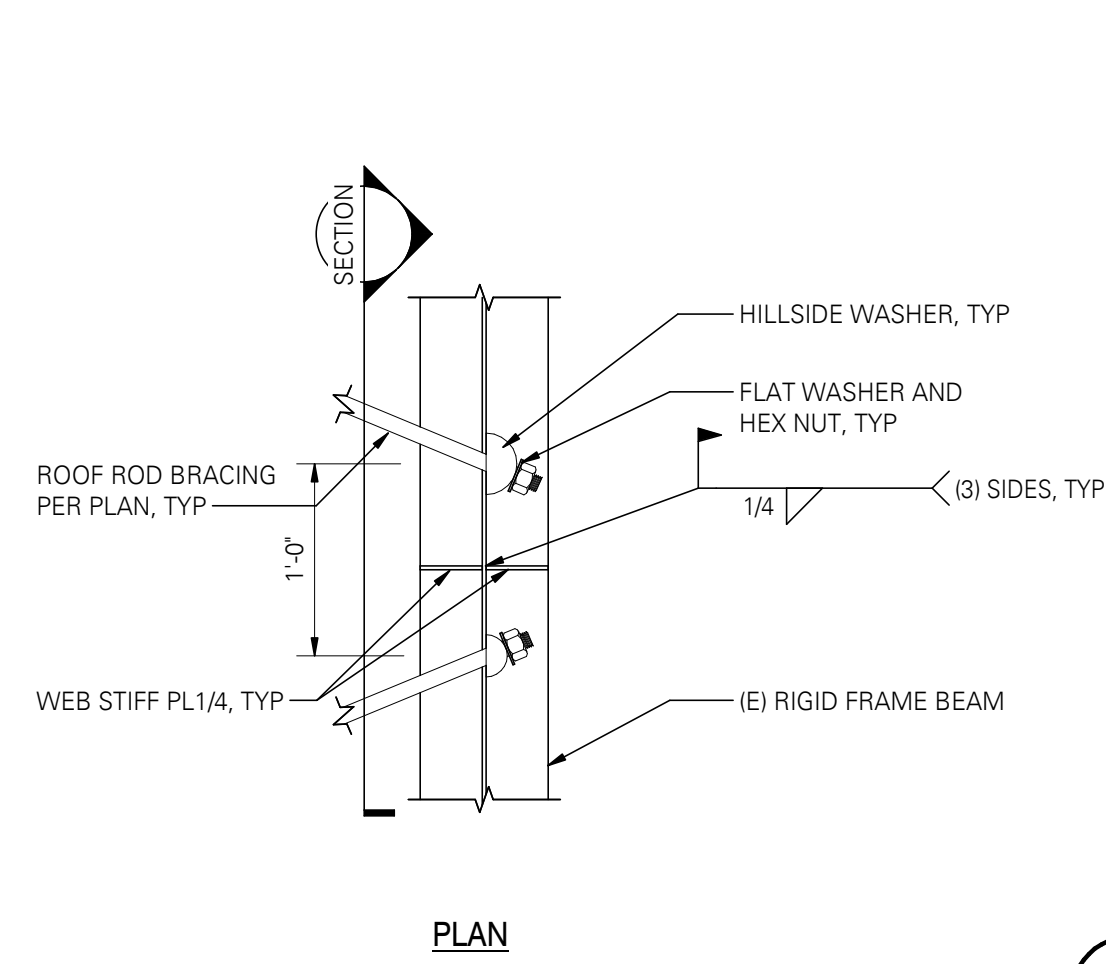
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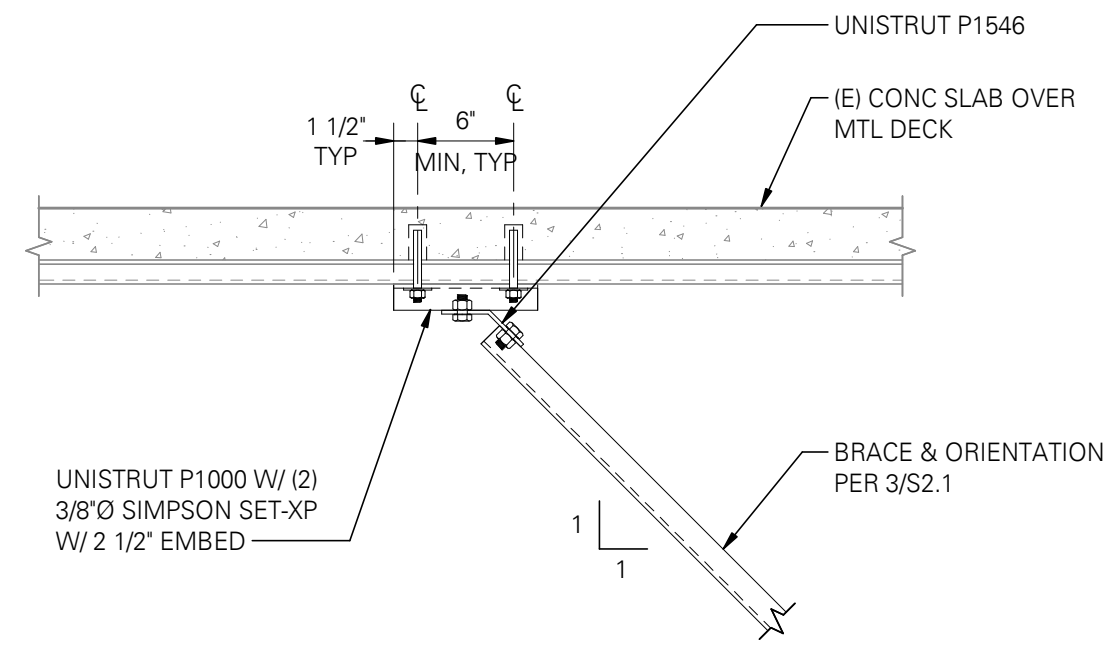
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ERWWTF SCHED B STRUCTURAL RETROFITS
STRUCTURAL AERATION BUILDING ROOF FRAMING PLAN
DATE: JUNE 2022 GRID: NW0150
PROJ. ID.: WM.00151
SHEET 21 of 24
DWG S1.1B

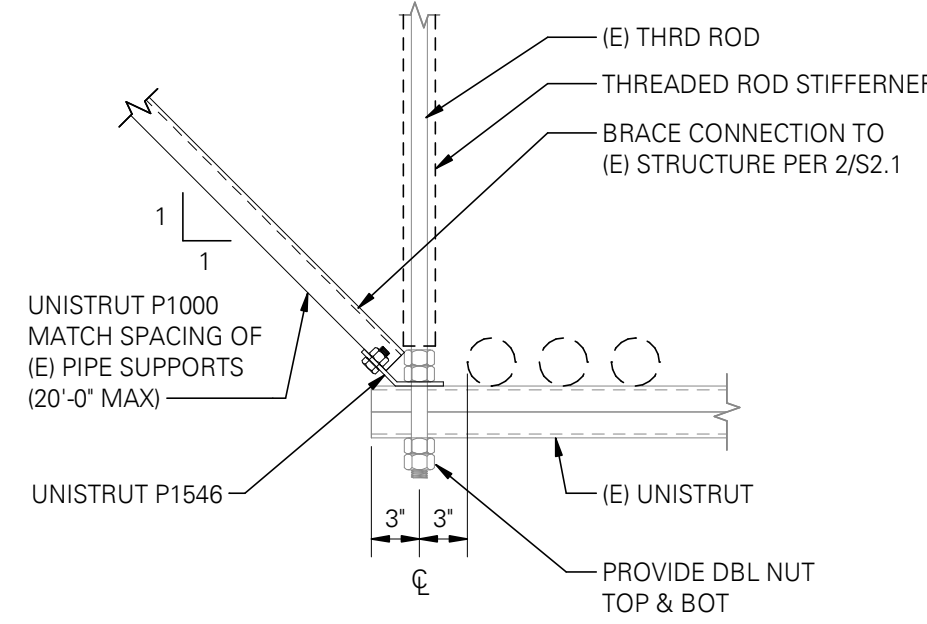


NOTE:
ALL STRUT NUTS, BOLTS AND FITTINGS TO BE PROVIDED BY MANUFACTURER.

2 BRACE CONNECTION TO EXISTING STRUCTURE
SCALE: 1" = 1'-0"

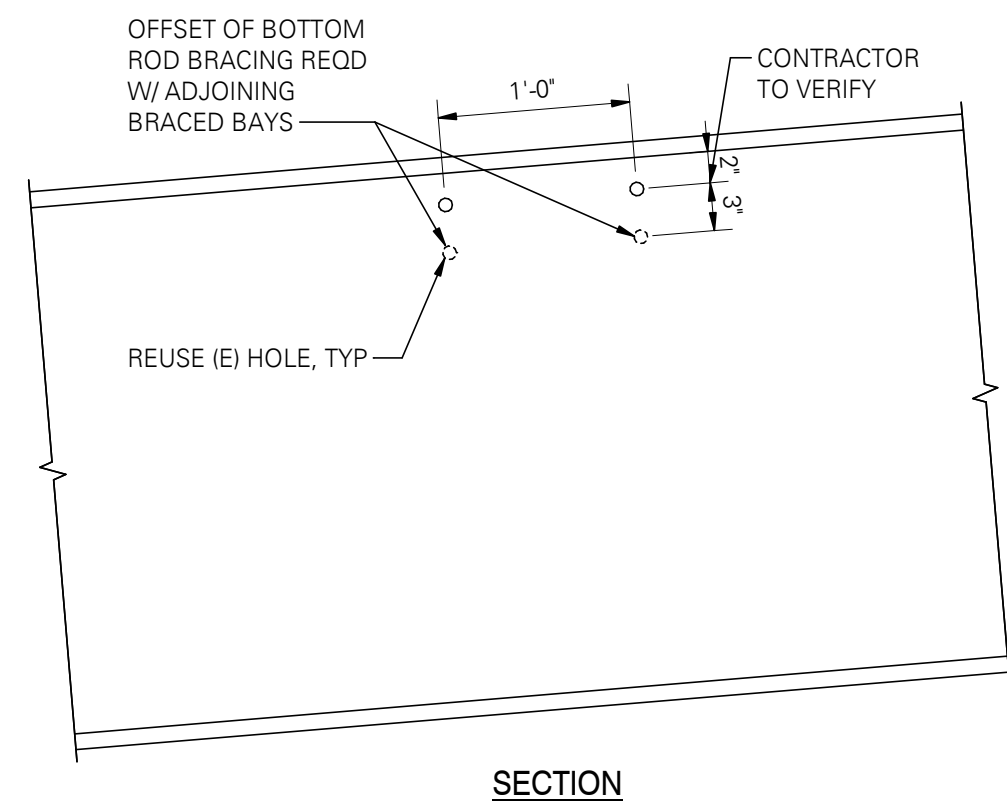
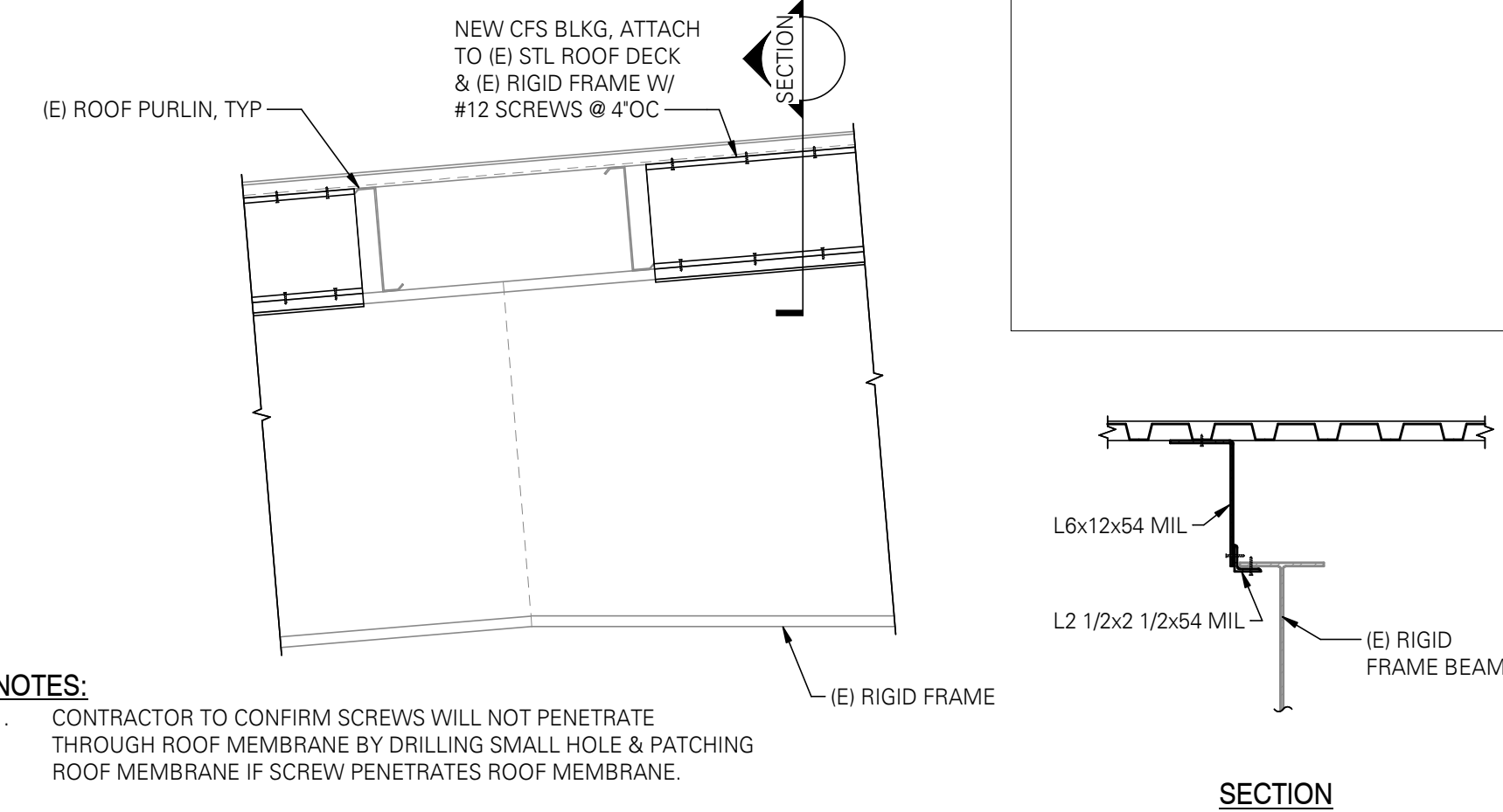


3 SUSPENDED PIPE TRAPEZE CONNECTION
SCALE: 1" = 1'-0"



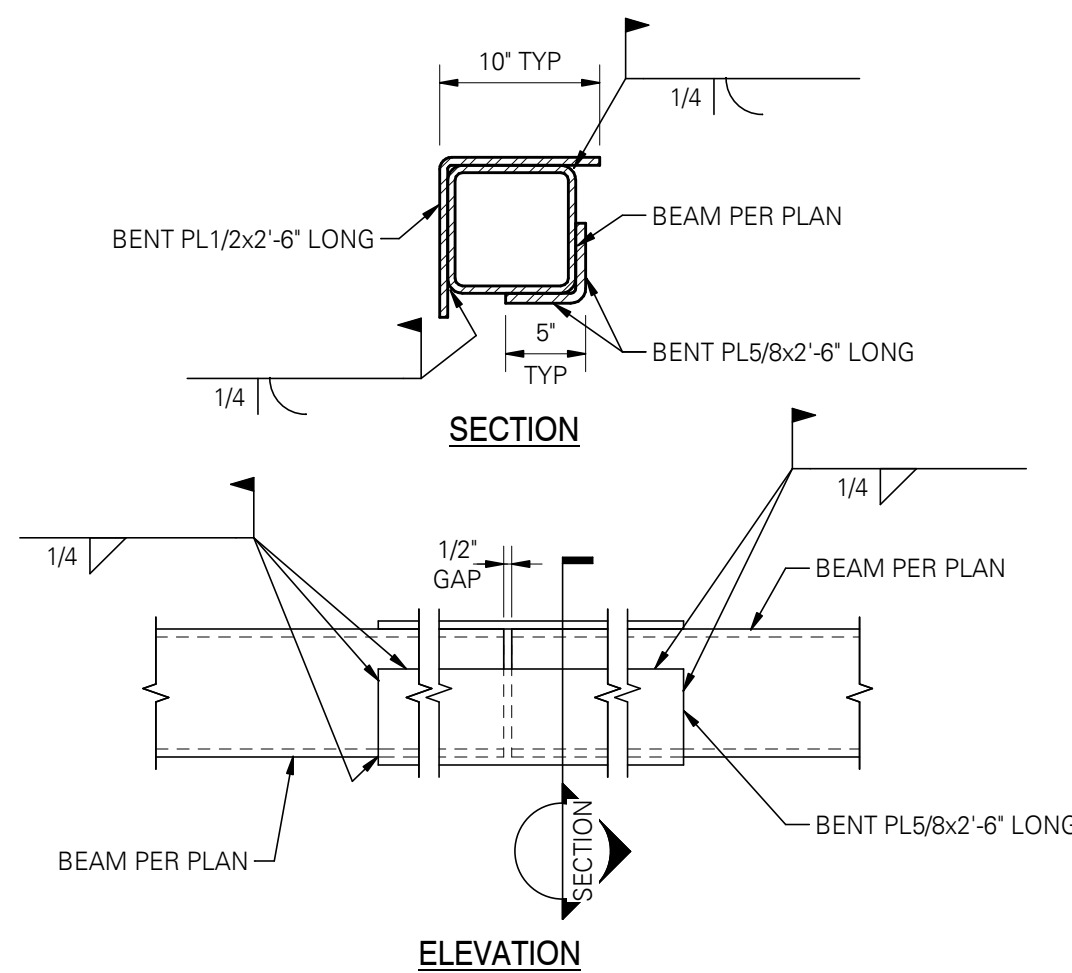
NOTES:
1. CONTRACTOR TO CONFIRM SCREWS WILL NOT PENETRATE THROUGH ROOF MEMBRANE BY DRILLING SMALL HOLE & PATCHING ROOF MEMBRANE IF SCREW PENETRATES ROOF MEMBRANE.
2. BLOCKING TYPICAL EVERY OTHER BAY.

4 ROOF DECK TO RIGID FRAME LATERAL LOAD PATH RETROFIT
SCALE: 3/4" = 1'-0"



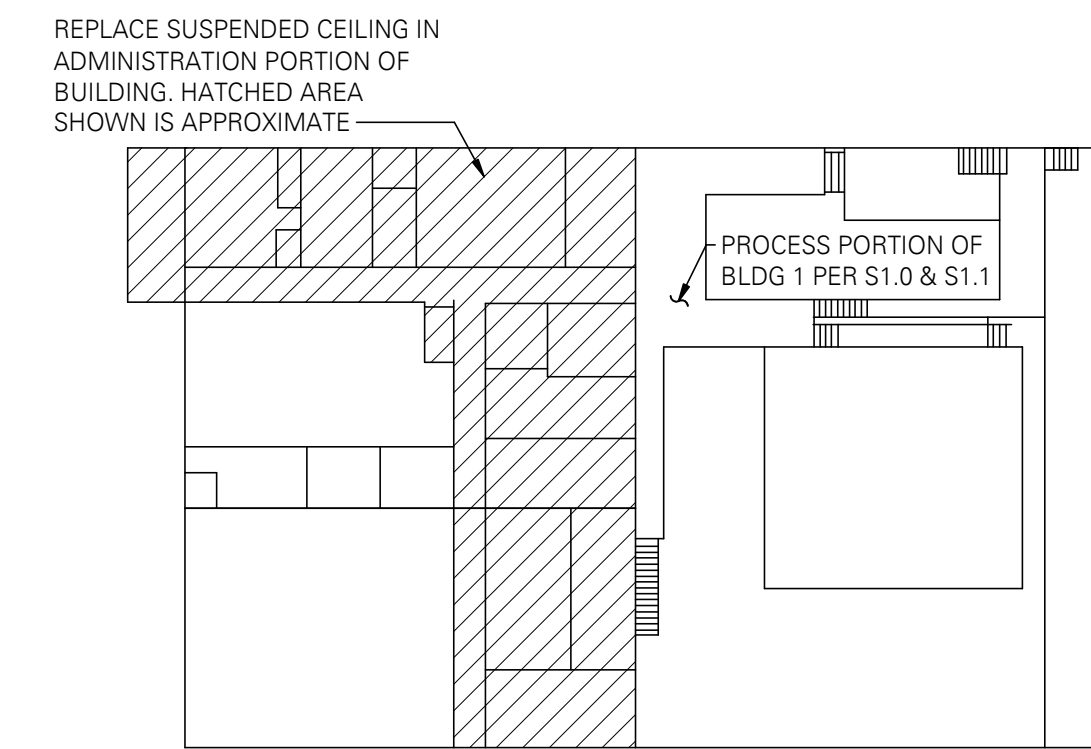
NOTE:
1. CONTRACTOR TO DRILL HOLES TO ENLARGE FOR LARGER ROD BRACING WHERE REQD, TORCH CUTTING NOT ALLOWED.
2. CONTRACTOR SHALL REMOVE EXISTING RODS AND HARDWARE, REPAIR EXISTING COATING ON PRIMARY STEEL MEMBERS, AND INSTALL NEW RODS AND HARDWARE.

5 ROOF ROD BRACING TO EXISTING RIGID FRAME
SCALE: 1" = 1'-0"

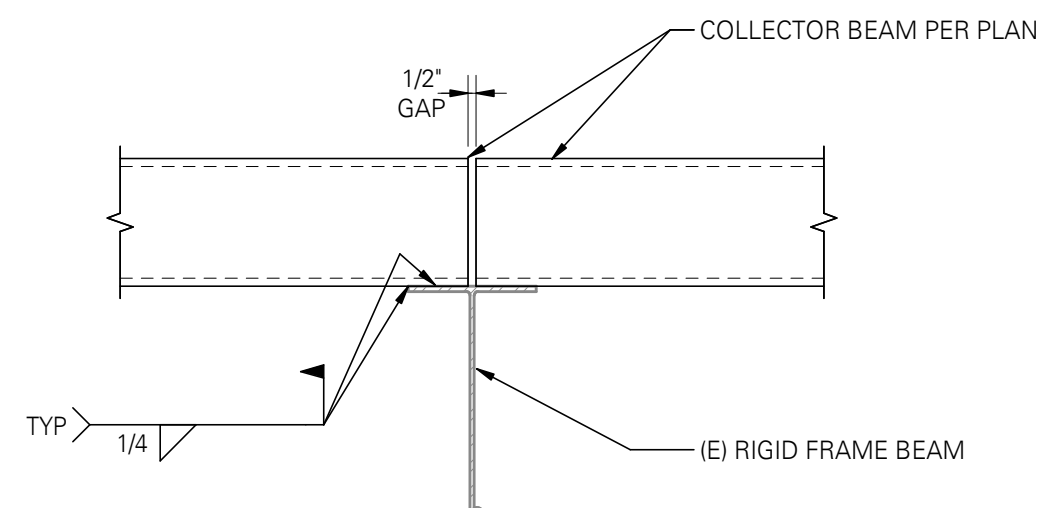


NOTE:
LOCATION OF SPLICE TO BE DETERMINED BY CONTRACTOR AS REQUIRED.

6 COLLECTOR BEAM SPLICE DETAIL
SCALE: 1" = 1'-0"



7 CEILING AT ADMIN AREA
SCALE: 1/32" = 1'-0"



10 COLLECTOR BEAM TO EXISTING RIGID FRAME BEAM
SCALE: 1" = 1'-0"

VERIFY SCALE			THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING			IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY			FULL SIZE SCALE		
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
						1	05/2022	BDC RESPONSE RD 1	JLR		
						2	6/24/22	TENSION ROD SCOPE	JLR		
PLAN CHECK			REVISIONS								

RECORD DRAWING Note: To be filled out on original drawings upon project completion

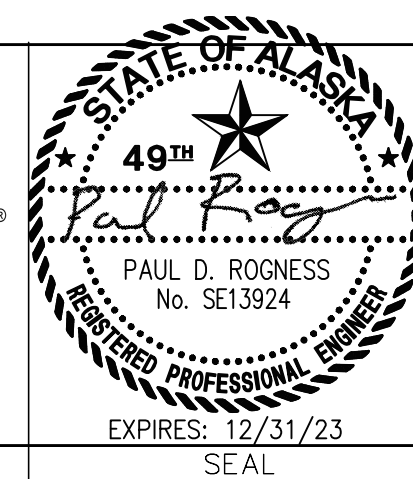
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CONTRACTOR: _____ TITLE: _____
DATE: _____

2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

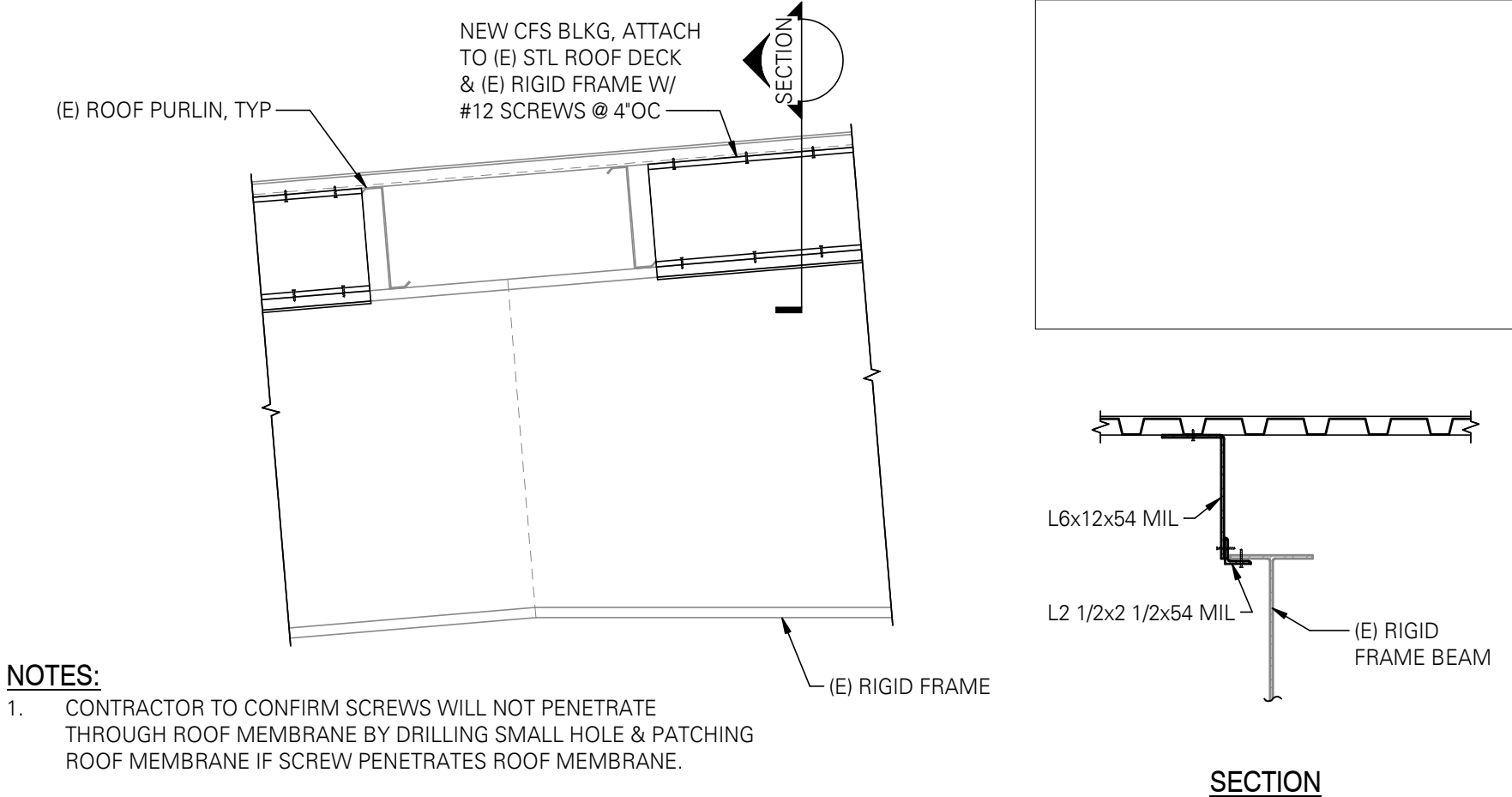
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____
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BY: _____ TITLE: _____
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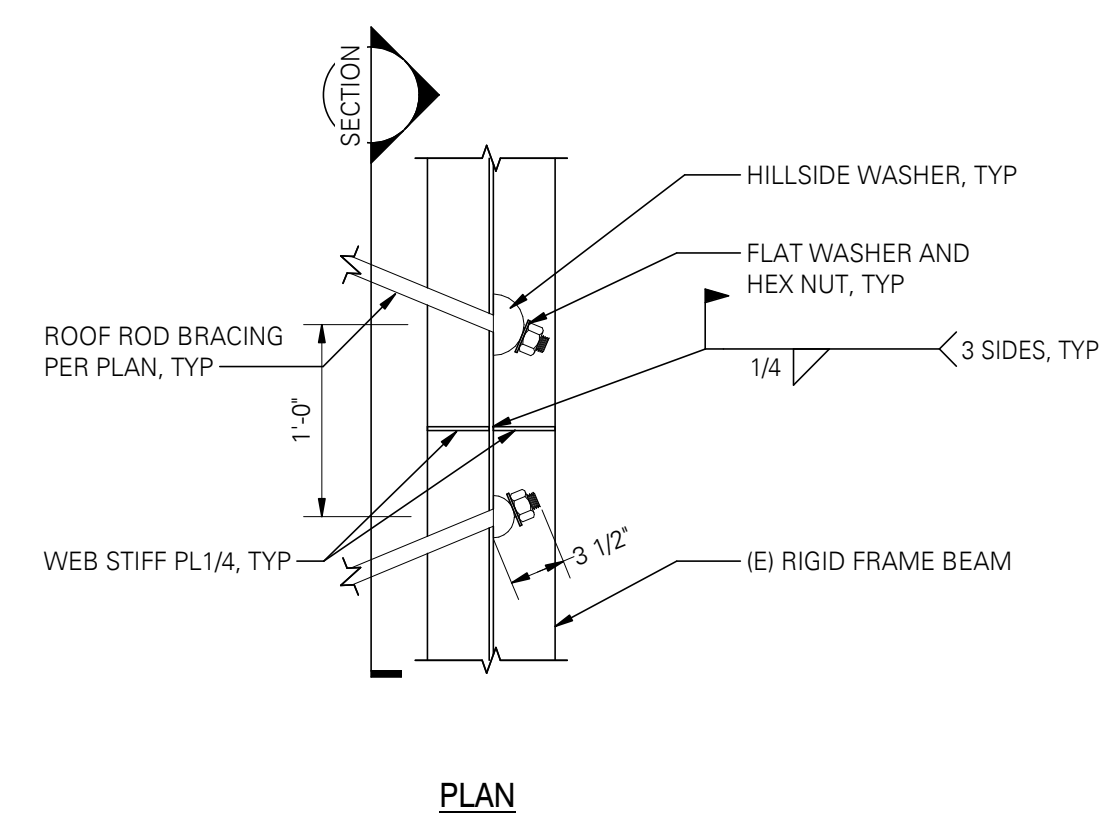


MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		ERWWTF SCHED B STRUCTURAL RETROFITS		DWG	
STRUCTURAL BUILDING 1 DETAILS		S2.1			
DATE: JUNE 2022		GRID: NW0150		SHEET 22 of 24	
PROJ. ID.: WM.00151					



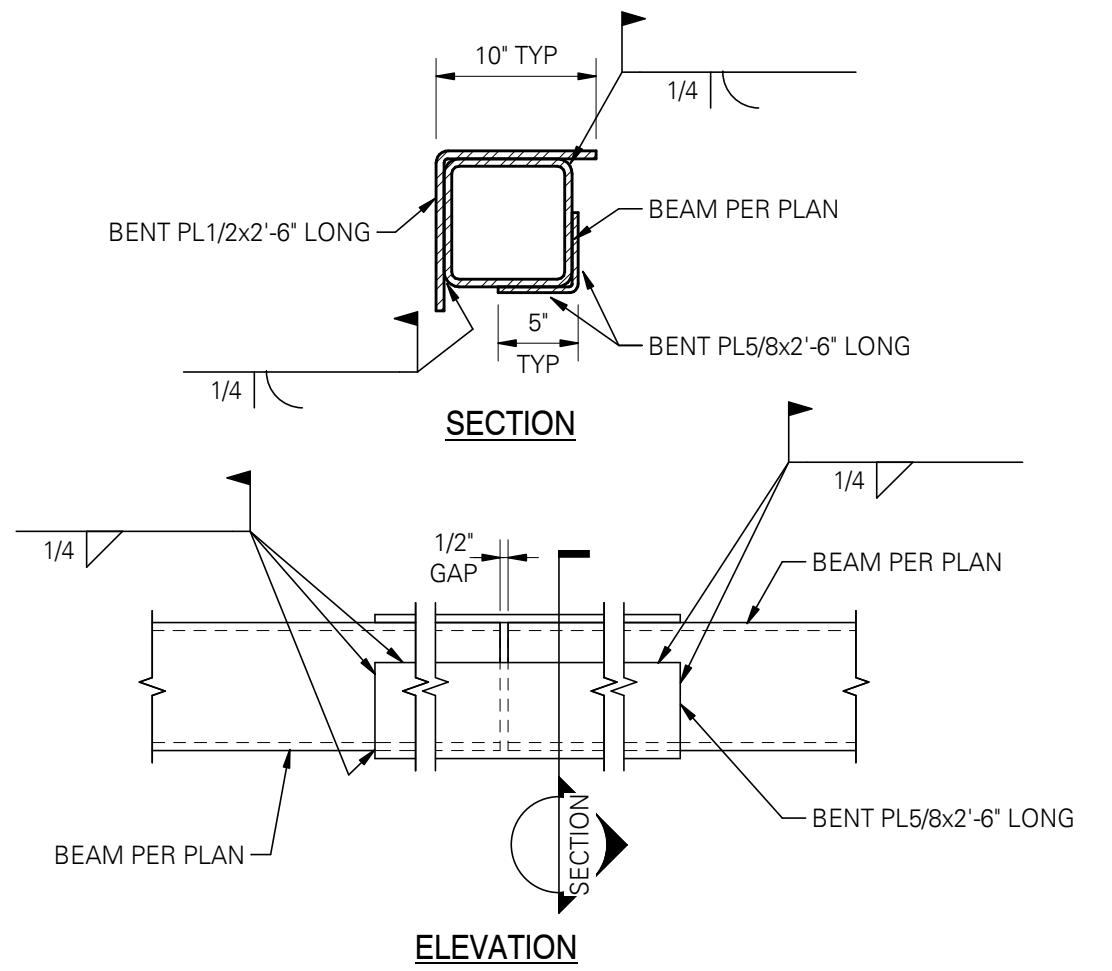
NOTES:
 1. CONTRACTOR TO CONFIRM SCREWS WILL NOT PENETRATE THROUGH ROOF MEMBRANE BY DRILLING SMALL HOLE & PATCHING ROOF MEMBRANE IF SCREW PENETRATES ROOF MEMBRANE.
 2. BLOCKING TYPICAL EVERY OTHER BAY.

4 ROOF DECK TO RIGID FRAME LATERAL LOAD PATH RETROFIT
 SCALE: 3/4" = 1'-0"



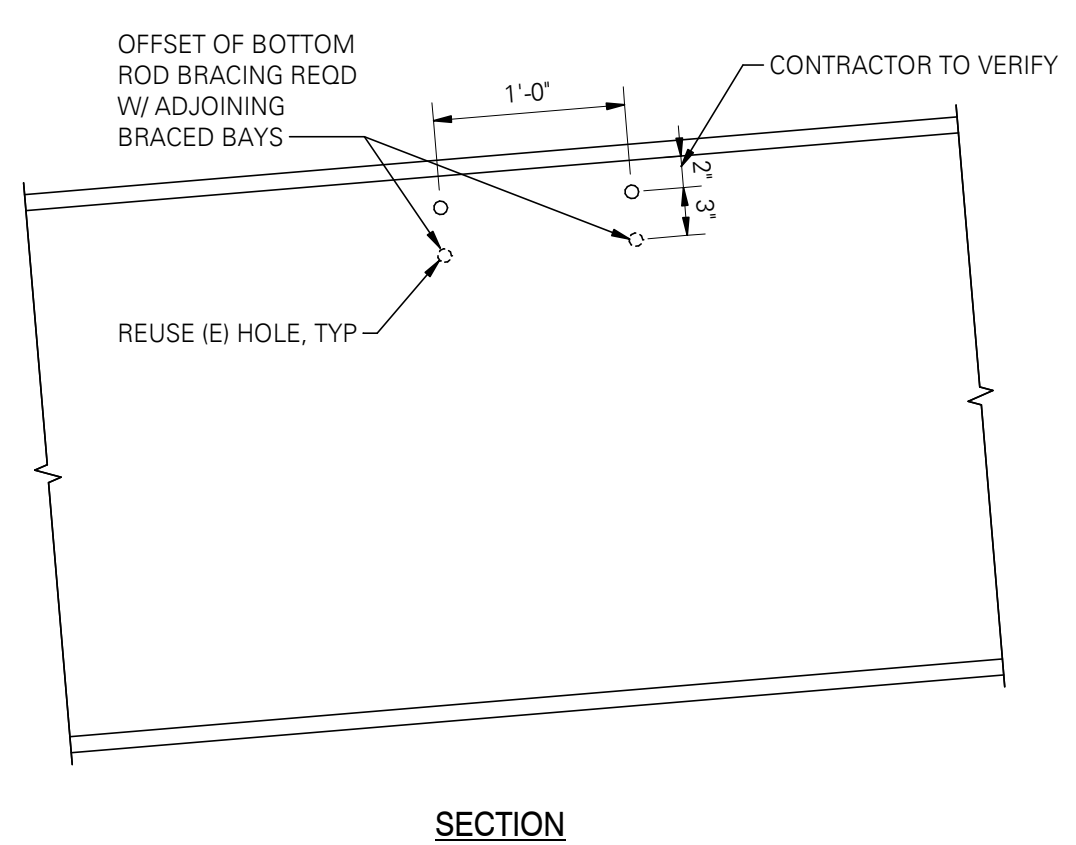
NOTE:
 VERIFY CONNECTION SIM AT BASE OF (E) STL BRACE. RETROFIT SIM AT BASE.

8 BRACED FRAME CONNECTION RETROFIT
 SCALE: 3/4" = 1'-0"



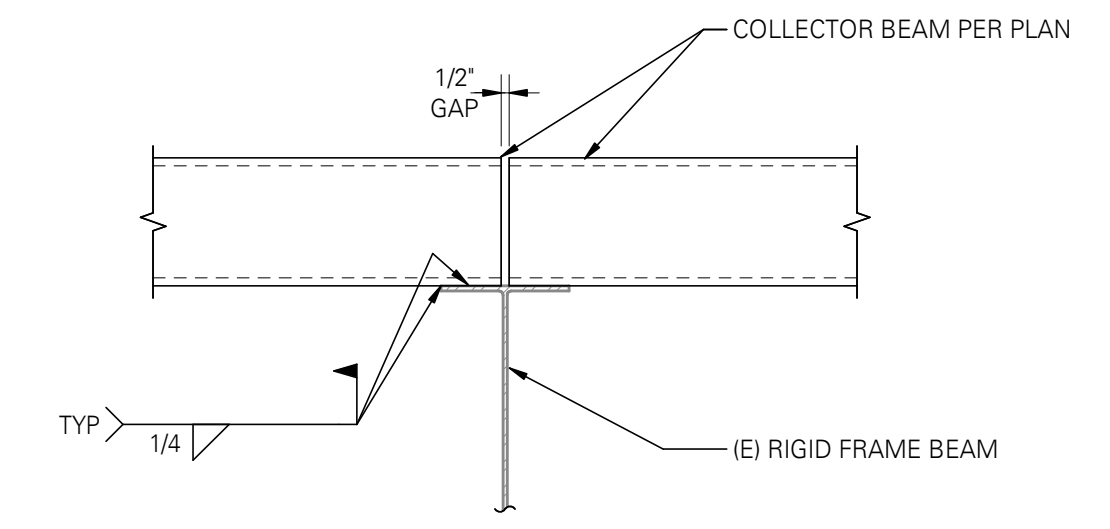
NOTE:
 LOCATION OF SPLICE TO BE DETERMINED BY CONTRACTOR AS REQUIRED.

10 COLLECTOR BEAM SPLICE DETAIL
 SCALE: 1" = 1'-0"



NOTE:
 CONTRACTOR TO DRILL HOLES TO ENLARGE FOR LARGER ROD BRACING WHERE REQD. TORCH CUTTING NOT ALLOWED.

11 ROOF ROD BRACING TO EXISTING RIGID FRAME
 SCALE: 1" = 1'-0"



12 COLLECTOR BEAM TO EXISTING RIGID FRAME BEAM
 SCALE: 1" = 1'-0"

VERIFY SCALE			THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING			IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY			FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A		
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
						1	05/2022	BDC_RESPONSE_R0.1	JLR		
						2	06/24/22	TENSION ROD SCOPE	JLR		
PLAN CHECK						REVISIONS					

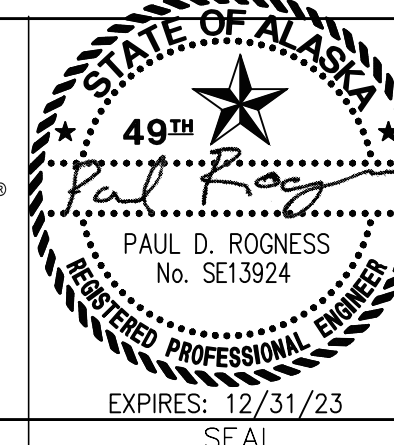
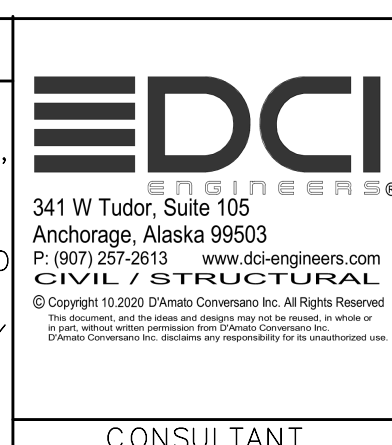
RECORD DRAWING Note: To be filled out on original drawings upon project completion

1. DATA PROVIDED BY: _____
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 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

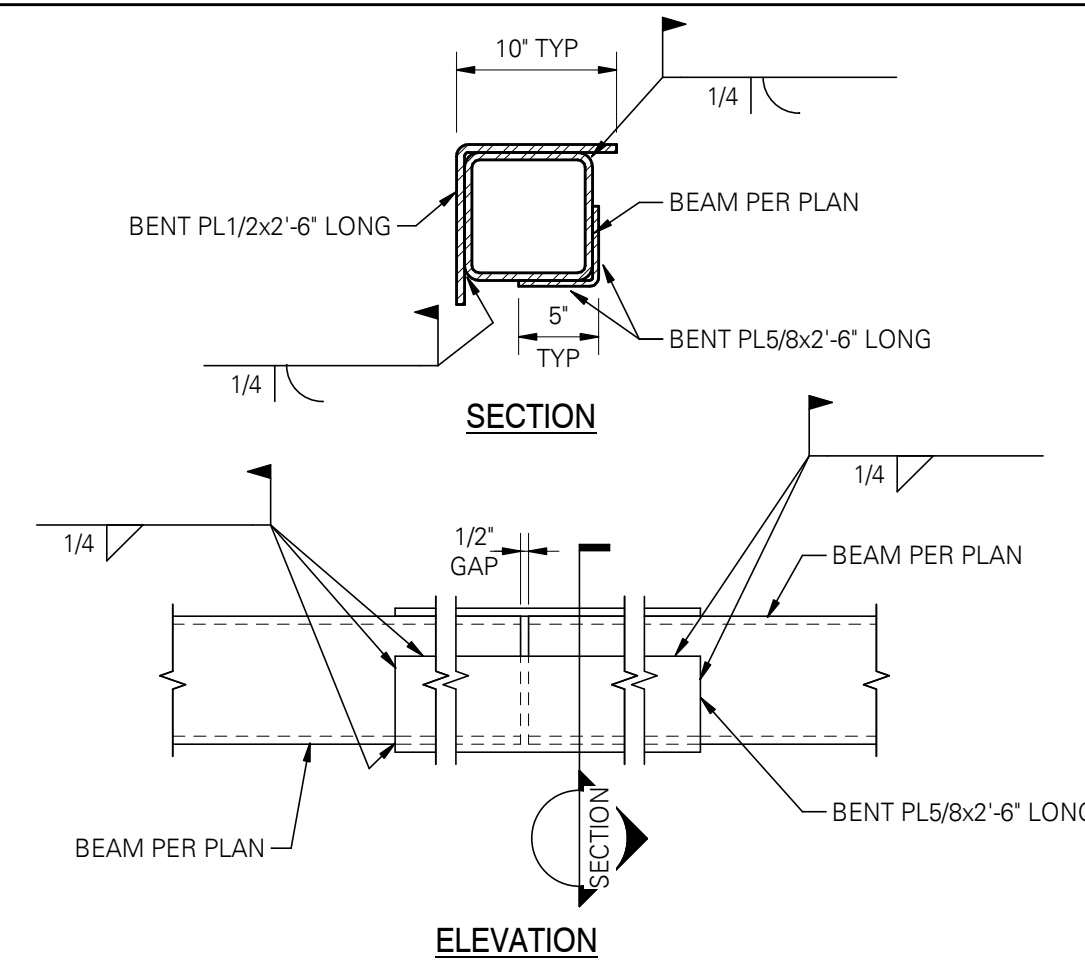
2. DATA TRANSFERRED BY: _____
 COMPANY: _____ DATE: _____

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 DATA TRANSFER CHECKED BY: _____
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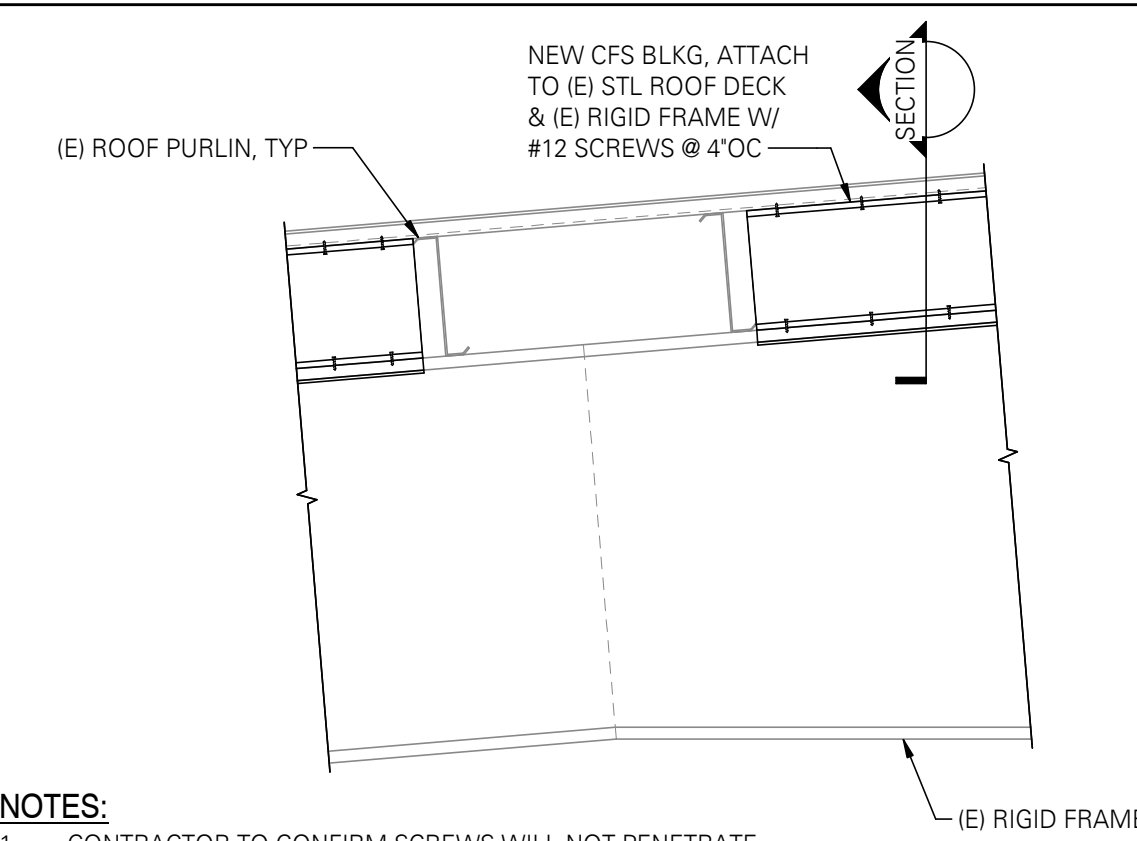
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG
ERWWTF SCHED B STRUCTURAL RETROFITS		S2.1A
STRUCTURAL BUILDING 2 DETAILS		
DATE: JUNE 2022	GRID: NW0150	SHEET 23 of 24
PROJ. ID.: WM.00151		



NOTE:

LOCATION OF SPLICE TO BE DETERMINED BY CONTRACTOR AS REQUIRED.

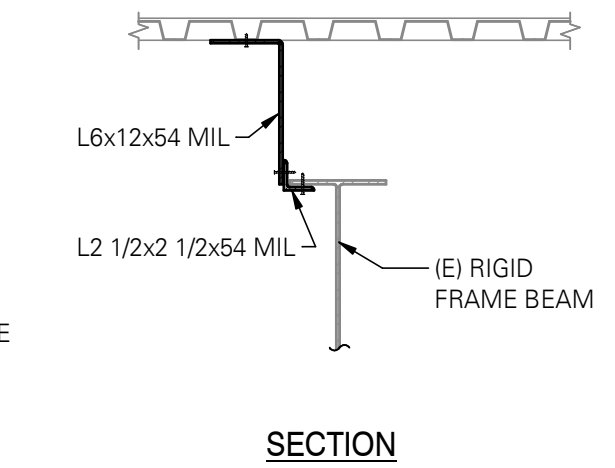
3 COLLECTOR BEAM SPLICE DETAIL
SCALE: 1" = 1'-0"



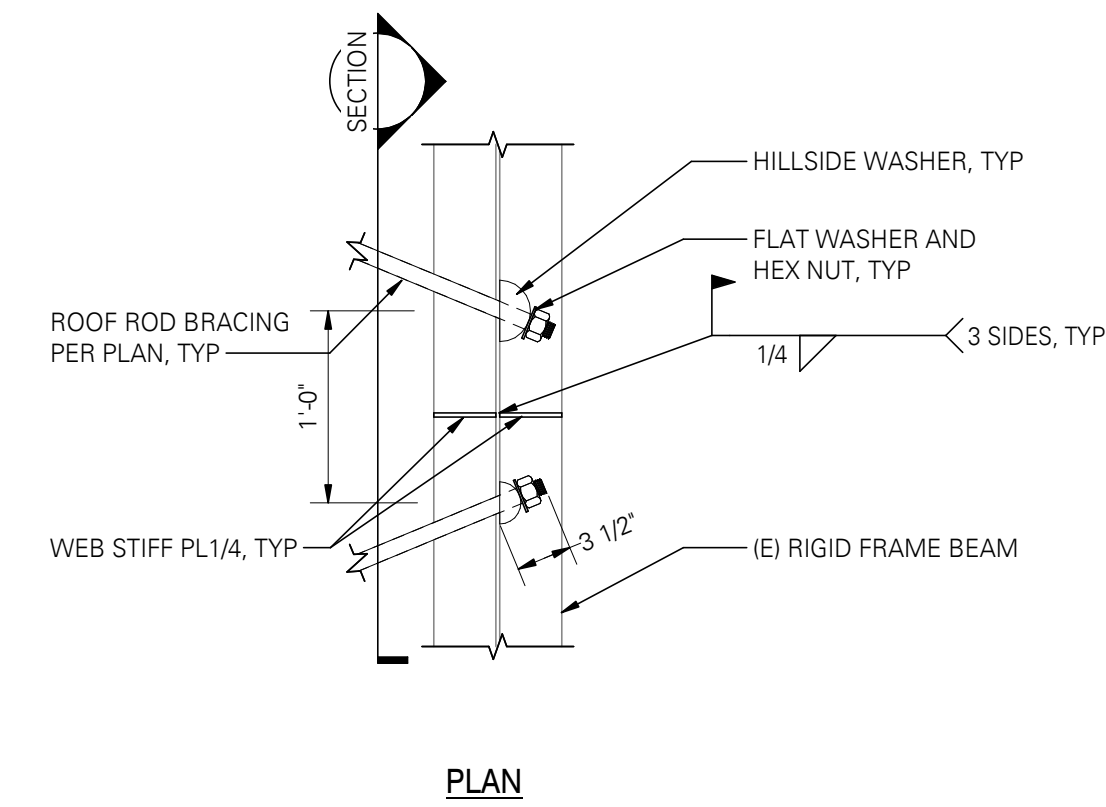
NOTES:

- CONTRACTOR TO CONFIRM SCREWS WILL NOT PENETRATE THROUGH ROOF MEMBRANE BY DRILLING SMALL HOLE & PATCHING ROOF MEMBRANE IF SCREW PENETRATES ROOF MEMBRANE.
- BLOCKING TYPICAL EVERY OTHER BAY.

4 ROOF DECK TO RIGID FRAME LATERAL LOAD PATH RETROFIT
SCALE: 3/4" = 1'-0"



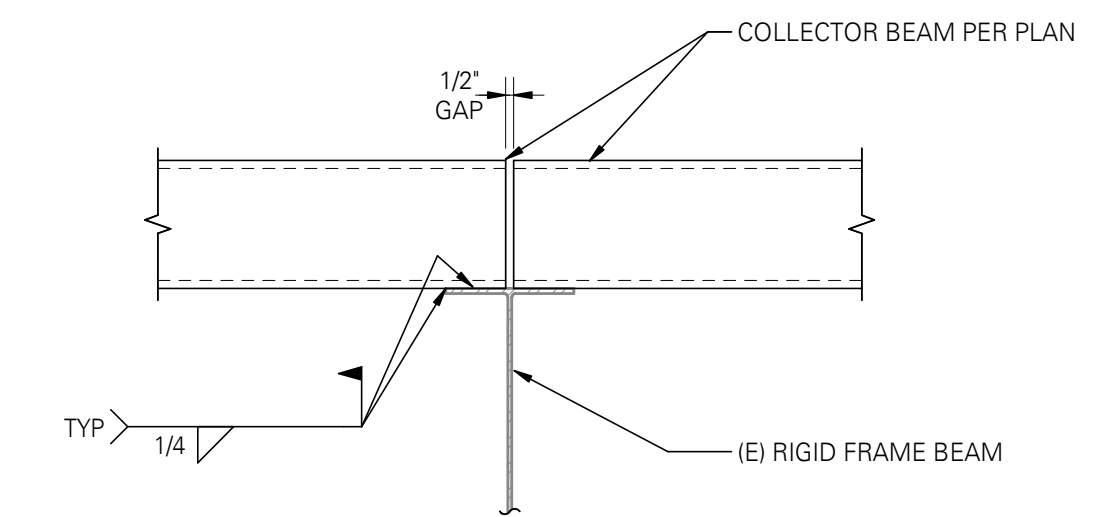
8 BRACED FRAME CONNECTION RETROFIT
SCALE: 3/4" = 1'-0"



NOTE:

CONTRACTOR TO DRILL HOLES TO ENLARGE FOR LARGER BRACING WHERE REQD, TORCH CUTTING NOT ALLOWED

11 ROOF ROD BRACING TO EXISTING RIGID FRAME
SCALE: 1" = 1'-0"



12 COLLECTOR BEAM TO EXISTING RIGID FRAME BEAM
SCALE: 1" = 1'-0"

VERIFY SCALE			THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING			IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY			FULL SIZE SCALE		
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
						1	05/2022	BDC RESPONSE RD 1	JLR		
						2	05/24/22	TENSION ROD SCOPE	JLR		
PLAN CHECK						REVISIONS					

RECORD DRAWING Note: To be filled out on original drawings upon project completion

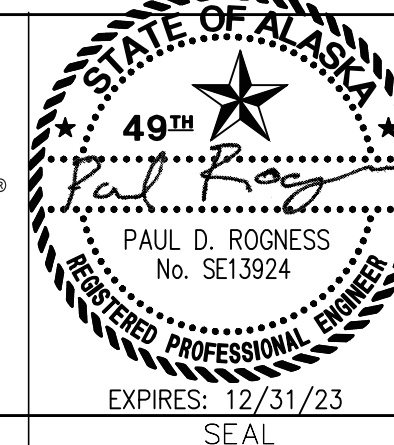
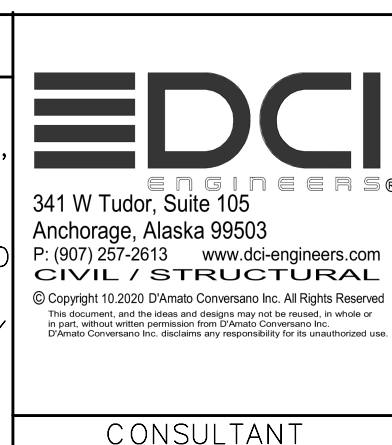
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 CONTRACTOR: _____ TITLE: _____
 BY: _____
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG
ERWWTF SCHED B STRUCTURAL RETROFITS		S2.1B
STRUCTURAL AERATION BUILDING DETAILS		
DATE: JUNE 2022	GRID: NW0150	SHEET 24 of 24
PROJ. ID.: WM.00151		

**AWWU PLAN SET
NO. 11173**

GENERAL NOTES:
 FOR A FULL DESCRIPTION OF SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES AND PROCEDURES, SEE SPECIFICATION SECTION 01 14 00 - PROJECT CONSTRAINTS
 REFER TO THE APPLICABLE RECORD DRAWINGS FOR ADDITIONAL INFORMATION ON EXISTING EQUIPMENT CONFIGURATIONS



CONDUCT THE WORK OF GRIDS 4 AND 5 PURLIN BLOCKING, GRID A COLLECTOR BEAMS BETWEEN GRIDS 4 AND 5, GRID E COLLECTOR BEAMS BETWEEN GRIDS 4 AND 5, AND DIAGONAL ROOF ROD BRACING BETWEEN GRIDS 4 AND 5 PER SPEC SECTION 011400 1.6 B.3.g AND STRUCTURAL DRAWINGS

CONDUCT THE WORK OF GRIDS 2 AND 3 PURLIN BLOCKING, GRID A COLLECTOR BEAMS BETWEEN GRIDS 2 AND 3, GRID E COLLECTOR BEAMS BETWEEN GRIDS 2 AND 3, AND DIAGONAL ROOF ROD BRACING BETWEEN GRIDS 2 AND 3 PER SPEC SECTION 011400 1.6 B.3.h AND STRUCTURAL DRAWINGS

1 CONDUCT CMU REPAIRS PER SPEC SECTION 011400 1.6 B.1.b

CONDUCT WORK ABOVE PRIMARY CLARIFIERS PER SPEC SECTION 011400 1.6 B.3.f

CONDUCT GRID 6 PURLIN BLOCKING WORK PER SPEC SECTION 011400 1.6 B.3.e AND STRUCTURAL DRAWINGS

CONDUCT GRID 7 PURLIN BLOCKING WORK BETWEEN GRIDS A AND D AND ON GRID A COLLECTOR BEAMS BETWEEN GRIDS 6 AND 7 PER SPEC SECTION 011400 1.6 B.3.c AND STRUCTURAL DRAWINGS

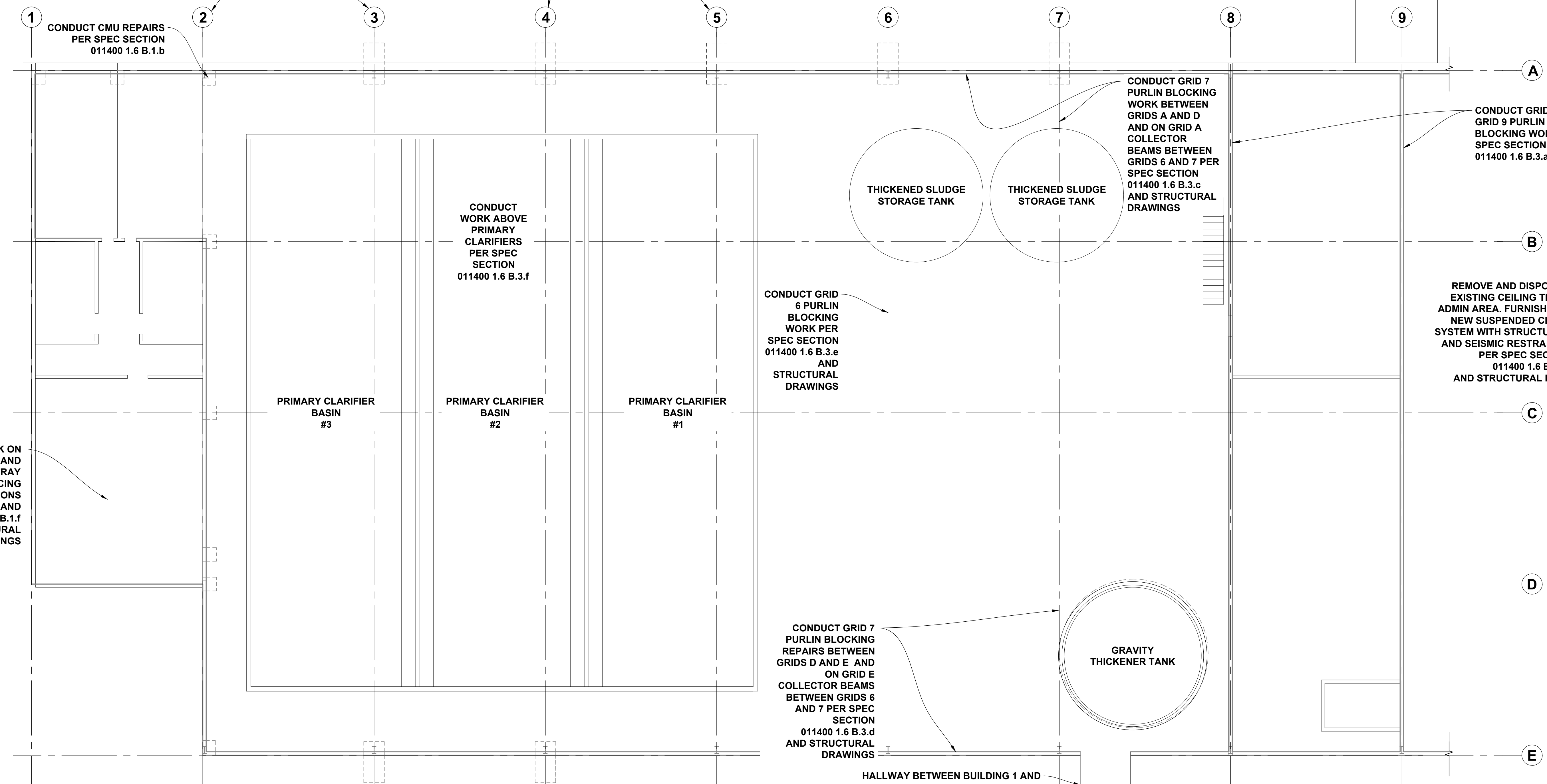
CONDUCT GRID 8 AND GRID 9 PURLIN BLOCKING WORK PER SPEC SECTION 011400 1.6 B.3.a

REMOVE AND DISPOSE OF ALL EXISTING CEILING TILES IN THE ADMIN AREA. FURNISH AND INSTALL NEW SUSPENDED CEILING TILE SYSTEM WITH STRUCTURAL BRACING AND SEISMIC RESTRAINT SYSTEMS PER SPEC SECTION 011400 1.6 B.5 AND STRUCTURAL DRAWINGS

CONDUCT WORK ON UNIT HEATER AND CABLE TRAY BRACING PER SPEC SECTIONS 011400 1.6 B.1.d AND 011400 1.6 B.1.f AND STRUCTURAL DRAWINGS

CONDUCT GRID 7 PURLIN BLOCKING REPAIRS BETWEEN GRIDS D AND E AND ON GRID E COLLECTOR BEAMS BETWEEN GRIDS 6 AND 7 PER SPEC SECTION 011400 1.6 B.3.d AND STRUCTURAL DRAWINGS

HALLWAY BETWEEN BUILDING 1 AND BUILDING 4 CONDUCT REPAIR PER SPEC SECTION 011400 1.6 B.1.a AND STRUCTURAL DETAILS



VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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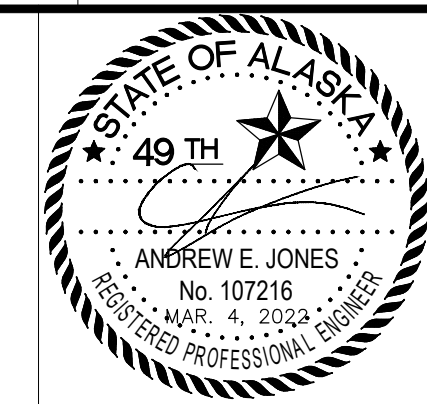
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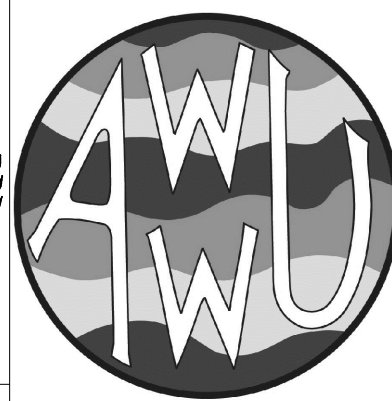


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 Anchorage, Alaska 99503
 Phone: (907) 346-4123

PRIME CONSULTANT



SEAL



MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

ERWWTF EARTHQUAKE REPAIRS AND STRUCTURAL RETROFITS

BUILDING 1
 PROJECT CONSTRAINTS

DATE: MARCH 2022 GRID: NE 1902

PROJ. ID.: WM.00151

DWG G.1

SHEET 25 of 29

GENERAL NOTES:
 FOR A FULL DESCRIPTION OF SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES AND PROCEDURES, SEE SPECIFICATION SECTION 01 14 00 - PROJECT CONSTRAINTS
 REFER TO THE APPLICABLE RECORD DRAWINGS FOR ADDITIONAL INFORMATION ON EXISTING EQUIPMENT CONFIGURATIONS

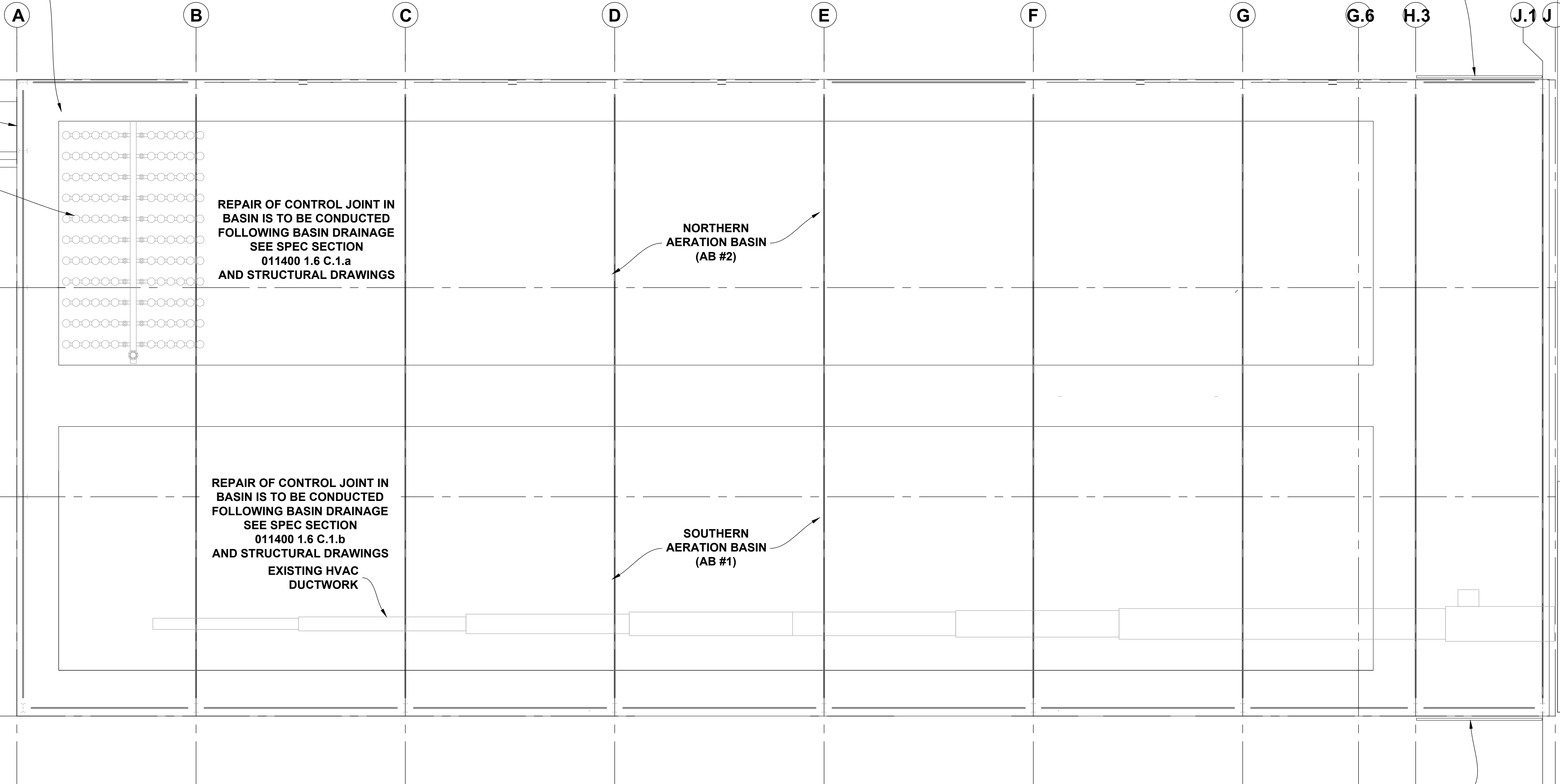
FOR DESCRIPTION OF WORK RELATED TO PURLIN BLOCKING, BRACED FRAME GUSSET RETROFITS, DIAGONAL ROD BRACING, AND COLLECTOR BEAM RETROFITS ON NORTHERN SIDE OF BUILDING
 COLUMN LINES A THROUGH J
 SEE SPEC SECTION 011400 1.6 C.4.a AND STRUCTURAL DRAWINGS

EXISTING GARAGE BAY DOOR
 BUILDING 2

REPAIR W3 PIPING INSULATION THIS VICINITY
 SEE 011400 1.6 C.2

EXISTING MAN DOOR

EXISTING AERATION DIFFUSER GRID BELOW WATER SURFACE. FULL FLOOR OF BASIN IS COVERED IN A SIMILAR MANNER (TYPICAL OF BOTH BASINS). SEE PROJECT CONSTRAINTS SPEC FOR PHOTO. 011400 1.6 C.1.a AND STRUCTURAL DRAWINGS



REPAIR OF CONTROL JOINT IN BASIN IS TO BE CONDUCTED FOLLOWING BASIN DRAINAGE SEE SPEC SECTION 011400 1.6 C.1.a AND STRUCTURAL DRAWINGS

NORTHERN AERATION BASIN (AB #2)

REPAIR OF CONTROL JOINT IN BASIN IS TO BE CONDUCTED FOLLOWING BASIN DRAINAGE SEE SPEC SECTION 011400 1.6 C.1.b AND STRUCTURAL DRAWINGS
 EXISTING HVAC DUCTWORK

SOUTHERN AERATION BASIN (AB #1)

FOR DESCRIPTION OF WORK RELATED TO PURLIN BLOCKING, BRACED FRAME GUSSET RETROFITS, DIAGONAL ROD BRACING, AND COLLECTOR BEAM RETROFITS ON SOUTHERN SIDE OF BUILDING
 COLUMN LINES A THROUGH J
 SEE SPEC SECTION 011400 1.6 C.4.b AND STRUCTURAL DRAWINGS

EXISTING GARAGE BAY DOOR

**AWWU PLAN SET
 NO. 11173**

REV	DATE	DESCRIPTION	BY

REVISIONS

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 BY: _____

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 WATER AND WASTEWATER PROCESS ENGINEERS
 1200 E. 76th Ave., Unit 1207
 Anchorage, Alaska 99503
 Phone: (907) 346-4123

PRIME CONSULTANT

CONSULTANT

STATE OF ALASKA
 49 TH
 ANDREW E. JONES
 No. 107216
 MAR. 4, 2024
 REGISTERED PROFESSIONAL ENGINEER

SEAL



MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

ERWWTF EARTHQUAKE REPAIRS AND STRUCTURAL RETROFITS
 AERATION BUILDING
 PROJECT CONSTRAINTS

DATE: MARCH 2022 GRID: NE 1902

PROJ. ID.: WM.00151

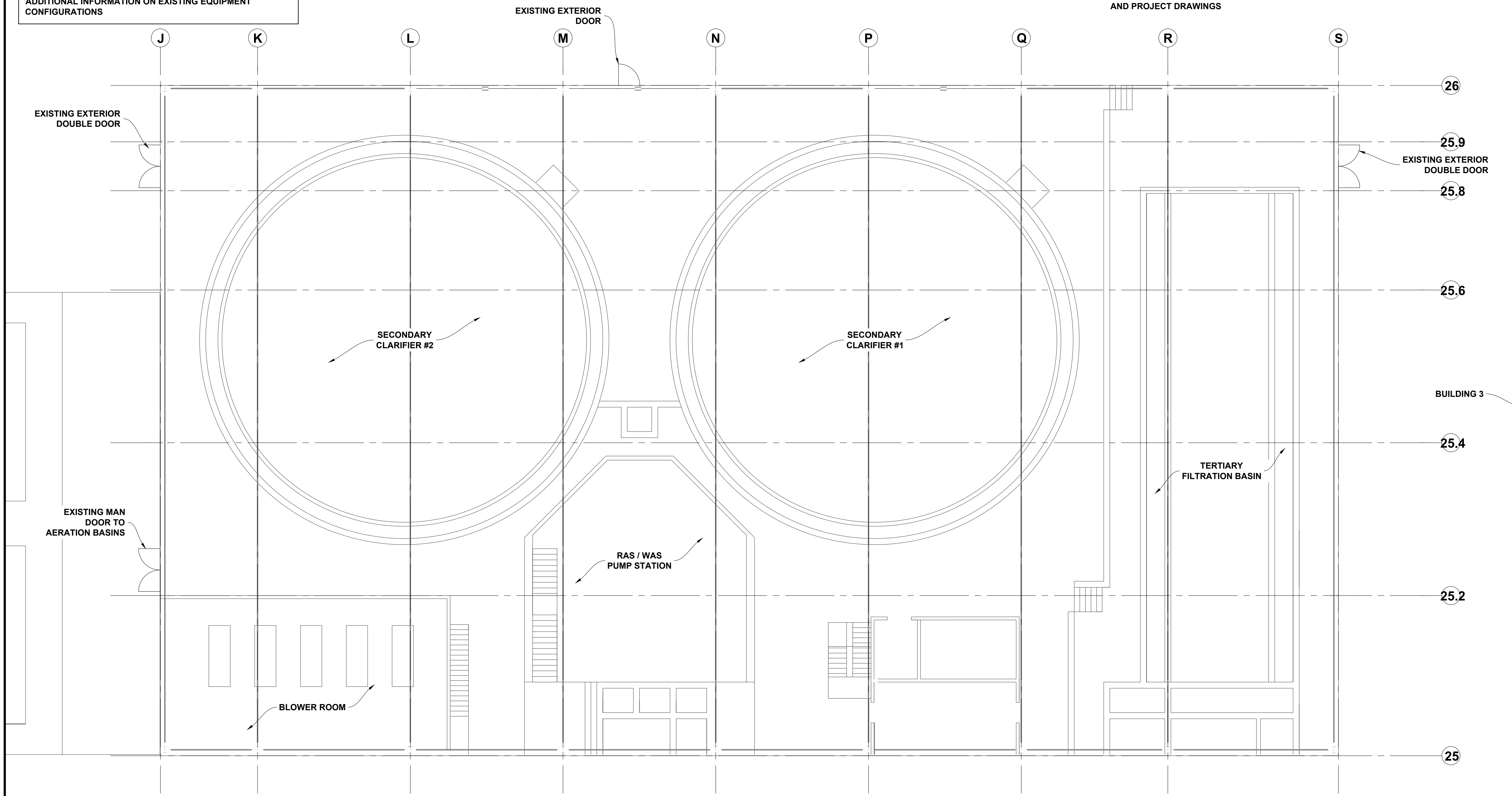
DWG G.2

SHEET 26 of 29

GENERAL NOTES:
 FOR A FULL DESCRIPTION OF THE SUGGESTED SEQUENCE OF CONSTRUCTION ACTIVITIES AND PROCEDURES, SEE SPECIFICATION SECTION 01 14 00 - PROJECT CONSTRAINTS
 REFER TO THE APPLICABLE RECORD DRAWINGS FOR ADDITIONAL INFORMATION ON EXISTING EQUIPMENT CONFIGURATIONS

FOR WORK RELATED TO PURLIN BLOCKING, BRACED FRAME GUSSET RETROFITS, DIAGONAL ROD BRACING, AND COLLECTOR BEAM RETROFITS ON COLUMN LINES K THROUGH S
 SEE SPEC SECTION 011400 1.6 D.2 AND STRUCTURAL DRAWINGS

REMOVE AND REPLACE DAMAGED W3 PIPING INSULATION AND REPAIR DRYWALL CRACKING THROUGHOUT BUILDING 2 PER SPEC SECTION 011400 1.6 D.1 AND PROJECT DRAWINGS



**AWWU PLAN SET
NO. 11173**

VERIFY SCALE IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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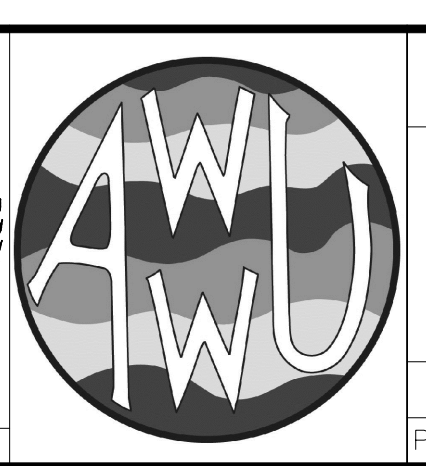
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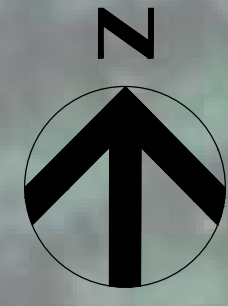
ERWWTF EARTHQUAKE REPAIRS AND STRUCTURAL RETROFITS
 BUILDING 2
 PROJECT CONSTRAINTS

DATE: MARCH 2022 GRID: NE 1902

PROJ. ID.: WM.00151

DWG G.3

SHEET 27 of 29



CONTRACTOR
ACCESS
ROUTE

BUILDING 1

CONTRACTOR
STAGING AND
PARKING
AREA

**AWWU PLAN SET
NO. 11173**

AERATION BASIN
BUILDING

CONTRACTOR
ACCESS
ROUTE

BUILDING 2

VERIFY SCALE			
REV	DATE	DESCRIPTION	BY
REVISIONS			

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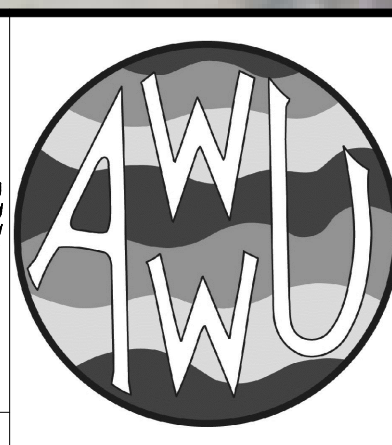
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ERWWTF EARTHQUAKE REPAIRS
 AND STRUCTURAL RETROFITS

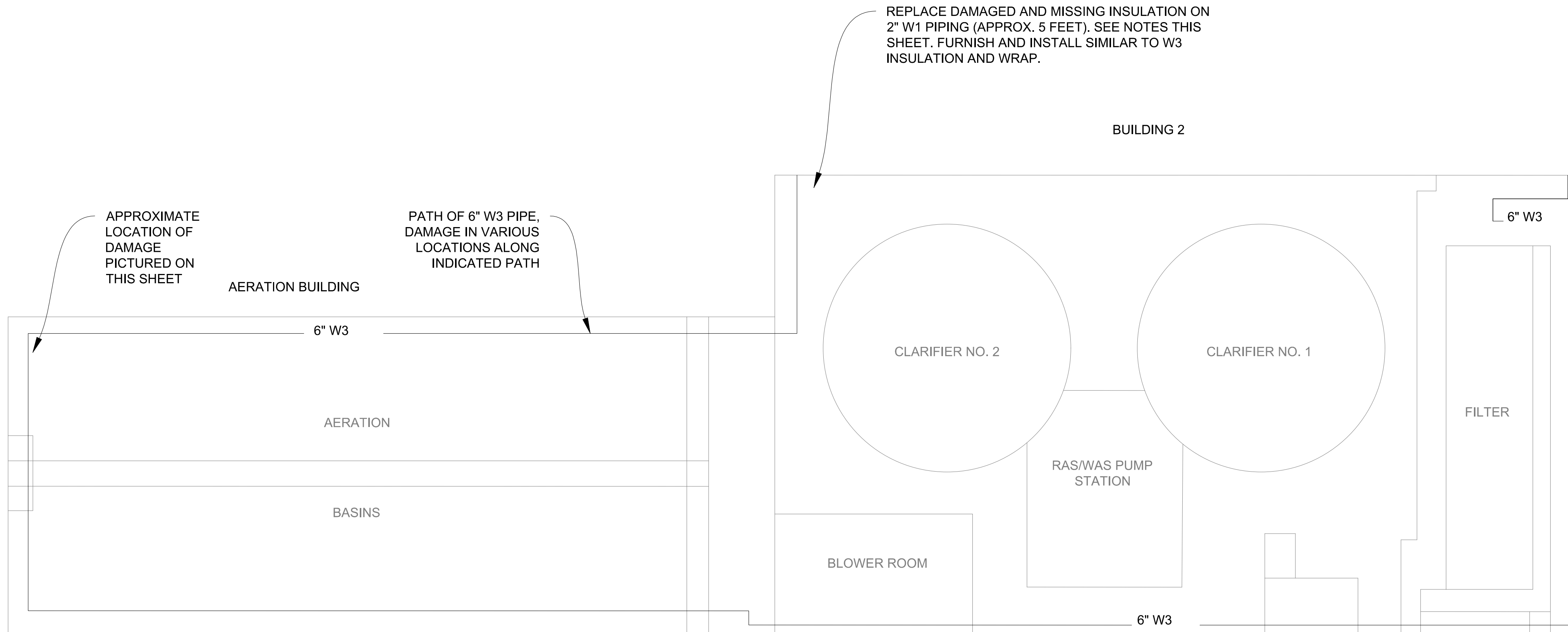
EXISTING SITE PLAN AND
 CONTRACTOR STAGING AREA

DATE: MARCH 2022 GRID: NE 1902

PROJ. ID.: WM.00151

DWG G.4

SHEET 28 of 29



NOTES:
 PER QUANTITIES IDENTIFIED ON THE BID PROPOSAL, AND AT LOCATIONS IDENTIFIED BY THE OWNER ON THE 6-INCH W3 PIPELINE IN THE AERATION BUILDING AND BUILDING 2, REMOVE SECTIONS OF INSULATION AND WRAP DAMAGED BY CHAFFING OF THE PIPE SUPPORTS AND REPLACE WITH NEW INSULATION AND WRAP AS FOLLOWS:

- 1) FURNISH AND INSTALL NEW INSTALLATION OF THICKNESS AND WRAP TYPE TO MATCH THE EXISTING INSULATION THICKNESS AND WRAP TYPE.
- 2) CUT THE EXISTING WRAP AND INSULATION STRAIGHT AND PERPENDICULAR TO THE W3 PIPELINE TO REMOVE THE DAMAGED SECTION WITHOUT CONTACTING THE EXISTING W3 PIPING WITH CUTTING TOOLS.
- 3) CUT A NEW SECTION OF INSULATION AND WRAP STRAIGHT AND TO THE LENGTH REQUIRED TO SNUGGLY FIT THE AREA OF THE REMOVED SECTION.
- 4) INSTALL THE NEW SECTION OF INSULATION AND WRAP IN ACCORDANCE WITH THE MANUFACTURER'S PIPE INSULATION, INCLUDING LAP JOINT SEALING AND BUTT STRAP INSTALLATION.
- 5) PREFORMED FIBERGLASS PIPE INSULATION AND WRAP, COMPLYING WITH:
 - a) ASTM C547, CLASS 3
 - b) ASTM C518 THERMAL CONDUCTIVITY ("K"): 0.23 BTUIN/ (HRFT2 °F) AT 75°F MEAN TEMPERATURE
 - c) MAXIMUM SERVICE TEMPERATURE: 850°F
 - d) ASTM E84 RATED 25/50
 - e) ASTM C 1136, TYPE I WRAP: WHITE, KRAFT-PAPER, FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING; WITH SELF-SEALING, PRESSURE-SENSITIVE, ACRYLIC-BASED ADHESIVE COVERED BY A REMOVABLE PROTECTIVE STRIP.
 - 6) MANUFACTURER AND PRODUCT: JOHNS MANVILLE; MICRO-LOK. OR APPROVED EQUAL.



EXAMPLE OF DAMAGE TO BE REPAIRED IN THE AERATION BASIN BUILDING ALONG THE WEST WALL



VERIFY SCALE
 IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY

REVISIONS

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REUSE OF DOCUMENTS

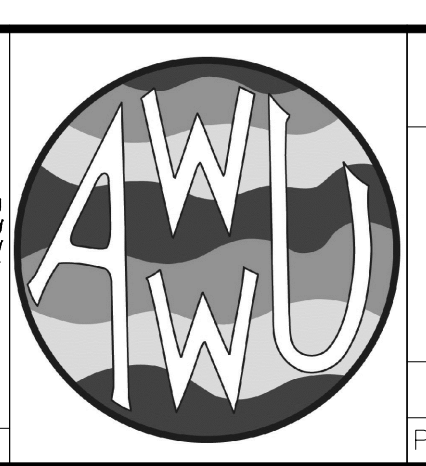
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 WATER AND WASTEWATER PROCESS ENGINEERS
 1200 E. 76th Ave., Unit 1207
 Anchorage, Alaska 99503
 Phone: (907) 346-4123

PRIME CONSULTANT

STATE OF ALASKA
 49 TH
 ANDREW E. JONES
 No. 107216
 MAR. 4, 2024
 REGISTERED PROFESSIONAL ENGINEER

SEAL



MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

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