

Application for Administrative Site Plan Review

Municipality of Anchorage
 Planning Department
 PO Box 196650
 Anchorage, AK 99519-6650




| PETITIONER* | | PETITIONER REPRESENTATIVE (if any) | |
|--|---------|---|---------|
| Name (last name first) Trasky, Trevor | | Name (last name first) Leguineche, Michael | |
| Mailing Address 3900 Arctic Blvd. | | Mailing Address 3940 Arctic Blvd., Suite 300 | |
| Anchorage, AK 99503 | | Anchorage, AK 99503 | |
| Contact Phone – Day | Evening | Contact Phone – Day | Evening |
| 907-564-2751 | | 907-646-5615 | |
| E-mail Trevor.Trasky@awwu.biz | | E-mail mleguineche@crweng.com | |

*Report additional petitioners or disclose other co-owners on supplemental form. Failure to divulge other beneficial interest owners may delay processing of this application.


| PROPERTY INFORMATION | | | |
|--|-----------------|----------------|----------------------------|
| Property Tax #(000-000-00-000): 00408232000 | | | |
| Site Street Address: 3044 Mountain View Drive, PRV, Anchorage | | | |
| Current legal description: (use additional sheet if necessary) Mountain View Development TR 1A-1 Frag Lot 1 | | | |
| Zoning: B3SL | Acreeage: 197.9 | Grid #: SW1235 | Underlying plat #: 2014-77 |

| SITE PLAN APPROVAL REQUESTED | |
|---|---|
| Use: Facility substation to include PRV. | |
| <input checked="" type="radio"/> New SPR | <input type="radio"/> Amendment to approved site plan Original Case #: |

I hereby certify that (I am)(I have been authorized to act for) owner of the property described above and that I petition for an administrative site plan review in conformance with Title 21 of the Anchorage Municipal Code of Ordinances. I understand that payment of the application fee is nonrefundable and is to cover the costs associated with processing this application, and that it does not assure approval of the site plan.


9/17/2024
 Signature Owner Representative Date
(Representatives must provide written proof of authorization)

Print Name _____

| | | | |
|---|--------------------|---------------------------|------------------------------------|
| Accepted by:  | Fee: \$1,850.00 | Case Number: 2024-0115 | Decision Date admin: 11/27/2024 |
|---|--------------------|---------------------------|------------------------------------|

COMPREHENSIVE PLAN INFORMATION

Improvement Area (per AMC 21.08.050B.): Class A Class B

Anchorage 2040 Land Use Designation(s):

| | | |
|---|--|--|
| <input type="checkbox"/> Large Lot Residential | <input type="checkbox"/> Single and Two-family Residential | <input type="checkbox"/> Compact Mixed Residential – low |
| <input type="checkbox"/> Compact Mixed Residential–Medium | <input type="checkbox"/> Urban Residential – High | <input type="checkbox"/> Neighborhood Center |
| <input checked="" type="checkbox"/> Town Center | <input type="checkbox"/> Regional Commercial Center | <input type="checkbox"/> City Center |
| <input type="checkbox"/> Commercial Corridor | <input type="checkbox"/> Main Street Corridor | <input type="checkbox"/> Open Space |
| <input type="checkbox"/> Facilities and Institutions | <input type="checkbox"/> Industrial | |

Anchorage 2040 Growth Supporting Features:

| | |
|---|---|
| <input type="checkbox"/> Transit-supportive Development | <input type="checkbox"/> Residential Mixed-use Development |
| <input type="checkbox"/> Greenway-supported Development | <input type="checkbox"/> Traditional Neighborhood Development |

Chugiak-Eagle River Land Use Classification:

| | | | |
|---|--|---|--|
| <input type="checkbox"/> Commercial | <input type="checkbox"/> Industrial | <input type="checkbox"/> Parks | <input type="checkbox"/> Community Facility |
| <input type="checkbox"/> Town Center | <input type="checkbox"/> Transportation facility | <input type="checkbox"/> Special study area | <input type="checkbox"/> Development reserve |
| <input type="checkbox"/> Residential at _____ dwelling units per acre | | | |

Girdwood- Turnagain Arm Land Use Classification:

| | | | |
|---|--|---|--|
| <input type="checkbox"/> Commercial | <input type="checkbox"/> Industrial | <input type="checkbox"/> Parks/open space | <input type="checkbox"/> Public lands/institutions |
| <input type="checkbox"/> Resort | <input type="checkbox"/> Transportation facility | <input type="checkbox"/> Special study area | <input type="checkbox"/> Reserve |
| <input type="checkbox"/> Commercial/Residential | <input type="checkbox"/> Commercial Recreation | | |
| <input type="checkbox"/> Residential at _____ dwelling units per acre | | | |

Neighborhood, District or Other Area-Specific Plan: _____

ENVIRONMENTAL INFORMATION (All or portion of site affected)

| | | | | |
|--------------------------------|----------------------------|---------------------------------|--------------------------------|---|
| Wetland Classification: | <input type="radio"/> None | <input type="radio"/> "C" | <input type="radio"/> "B" | <input type="radio"/> "A" |
| Avalanche Zone: | <input type="radio"/> None | <input type="radio"/> Blue Zone | <input type="radio"/> Red Zone | |
| Floodplain: | <input type="radio"/> None | <input type="radio"/> 100 year | <input type="radio"/> 500 year | |
| Seismic Zone (Harding/Lawson): | <input type="radio"/> "1" | <input type="radio"/> "2" | <input type="radio"/> "3" | <input type="radio"/> "4" <input type="radio"/> "5" |

RECENT REGULATORY INFORMATION (Events that have occurred in last 5 years for all or portion of site)

Rezoning - Case Number: _____

Preliminary Plat Final Plat - Case Number(s): _____

Conditional Use - Case Number(s): _____

Zoning variance - Case Number(s): _____

Land Use Enforcement Action for _____

Building or Land Use Permit for C21-1727

Wetland permit: Army Corps of Engineers Municipality of Anchorage

SUBMITTAL REQUIREMENTS (Only one copy of applicable items is required for initial submittal)

1 copy required: Signed application (original)
 Watershed sign off form, completed
 8 1/2" by 11" copy of site plan/building plans submittal

4 copies required: Signed application (copies)
 Project narrative explaining:
 the project planning objectives
 addressing the site plan review criteria on page 3 of this application

Site plan to scale depicting, with dimensions:
 building footprints parking areas vehicle circulation and driveways
 pedestrian facilities lighting grading
 landscaping loading facilities freestanding sign location(s)
 required open space drainage snow storage area or alternative strategy

trash receptacle location and screening detail fences
 significant natural features easements project location

Building plans to scale depicting, with dimensions:
 building elevations floor plans exterior colors and textures

Assembly Ordinance enacting zoning special limitations, if applicable

(Additional information may be required.)

SITE PLAN REVIEW STANDARDS (21.03.180)

The Planning Director may only approve a site plan if the director finds that **all** of the following standards are satisfied. Each standard must have a response in as much detail as it takes to explain how your project satisfies the standard. The burden of proof rests with you.

1. The site plan is consistent with any previously approved subdivision plat, planned development master plan, or any other precedent plan or land use approval;
2. The site plan complies with all applicable development and design standards set forth in this title, including but not limited to the provisions in chapter 21.04, *Zoning Districts*, chapter 21.05, *Use Regulations*, chapter 21.06, *Dimensional Standards and Measurements*, and chapter 21.07, *Development and Design Standards*;
3. The site plan addresses any significant adverse impacts that can reasonably be anticipated to result from the use, by mitigating or offsetting those impacts to the maximum extent feasible; and
4. The development proposed in the site plan is consistent with the goals, objectives, and policies of the comprehensive plan.



September 16, 2024

Municipality of Anchorage
Planning Department
Anchorage, AK 99519

Re: Glenn Square PRV Facility Project
Administrative Site Plan

Project Narrative:

The purpose of the Glenn Square PRV Facility project is to decommission the failing Chrysler Vault and provide a new above grade facility to interconnect the 347 Pressure Zone (PZ) and the North 260 PZ.

The AWWU 2012 Water Master Plan indicates that the future daily flow through the existing Chrysler Vault is estimated at 28 million gallons per day (MGD). The Chrysler Vault provides flow to support the North sub-zone of the 260 PZ including the Port of Alaska and Kincaid, and currently has a normal operating capacity of 14 MGD. The below grade vault was designed for 28 MGD and includes two oversized 24-inch Ross PRVs. Since the Chrysler Vault has a much larger capacity than the current demand, it is difficult to maintain proper pressure in the Downtown and Port areas. The relatively high flows and pressures in the 260 PZ, combined with aging infrastructure, make the need for stable pressure control critical in these areas. Furthermore, existing hydraulic restrictions to Downtown Anchorage impact the fire demand capacities available to the Port and Kincaid.

The purpose of the Glenn Square PRV facility is as follows:

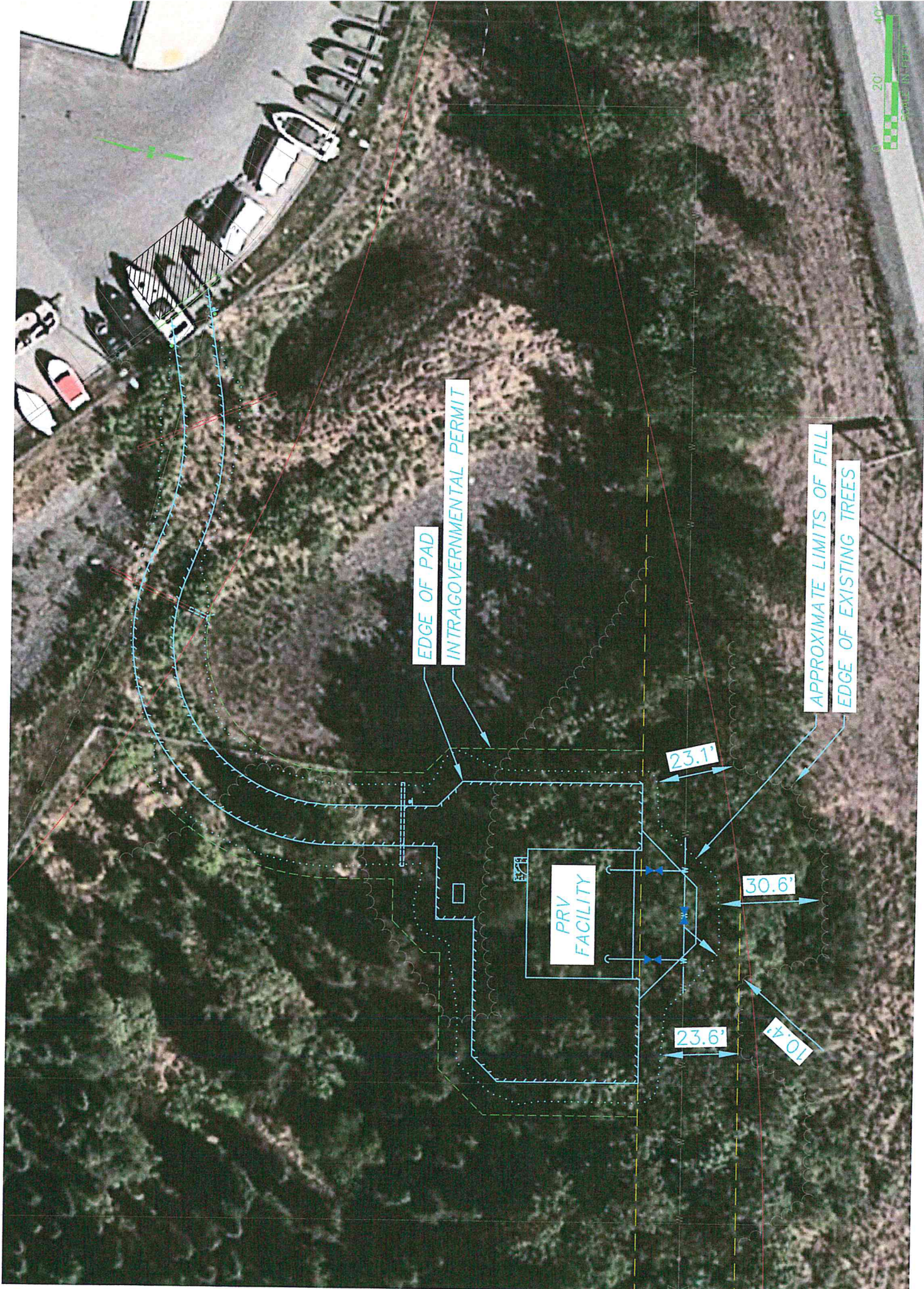
- Provide capacity for current average-day demands (14 MGD) to the North Sub-zone of the 260 PZ including Port of Alaska and Kincaid
- Provide improved pressure control from the 347 PZ to 260 PZ
- Replace aging infrastructure that cannot be easily maintained
- Provide better access for operations and maintenance with an above grade PRV facility
- Improve isolation capabilities of the 42-inch water transmission main
- Design facility to meet AWWU standards

Site Plan Review Standards:

1. The site plan is consistent with the underlying plat and all land use approvals. An intragovernmental permit was established for this project. The project is to install a new pressure regulating facility to replace the aging Chrysler Vault. Per the 2012 Water Master Plan, the Chrysler PRV Vault is one of the three major supplies to the largest pressure zone (260 Pressure Zone) in the Anchorage Bowl. The impact of losing one of these three vaults would

cause system water outages with large areas at reduced or below minimum pressures. Failure of the Chrysler Vault would have far-reaching impacts in the Anchorage Bowl and must be considered in planning future water infrastructure projects.

2. The site plan meets all provisions set forth in chapters 21.04 through 21.07 of Title 21. The property is zoned as B3 intended for general commercial uses in commercial centers and area exposed to heavy traffic. All dimensional setback requirements and maximum building height have been satisfied. The existing on-site vegetation is intended to provide facility screening and meet L2 buffer landscaping requirements. The attached site figure shows the proposed facility with dimensions to limits of existing landscaping.
3. There are no foreseen adverse impacts anticipated from the result of issuing this Conditional Use for a pressure reducing valve and support facilities on this site. All existing drainage patterns will remain upon completion of the project. The site will be accessed from the Bass Pro parking lot and will not impact pedestrian, bicycle, or vehicular traffic. Traffic to the site will be limited to AWWU personnel once or twice per week, except in the case of an emergency.
4. The project will provide public utility infrastructure to allow for increased water flows to the downtown service area while reducing water service pressure to meet AWWU's tariffs and is consistent with the 2020 and 2040 comprehensive plan.



EDGE OF PAD
INTRAGOVERNMENTAL PERMIT

APPROXIMATE LIMITS OF FILL
EDGE OF EXISTING TREES

PRV
FACILITY

23.1'

30.6'

23.6'

10.4'



WMS WATERCOURSE MAPPING SUMMARY

Per the requirements for watercourse verification outlined in Project Management and Engineering Operating Policy and Procedure #8 and Planning Department Operating Policy and Procedure #1 (effective June 18, 2007), MOA Watershed Management Services has inspected the following location for the presence or absence of stream channels or other watercourses, as defined in Anchorage Municipal Code (21.35).

- Project Case Number or Subdivision Name: Mountain View Development
- Project Location, Tax ID, or Legal Description: Mountain View Development TR 1A-1 Frag Lot 1 G:1235
(Parcel #00408232)
- Project Area (if different from the entire parcel or subdivision): *See attached figure for project area (pg. 2)

In accordance with the requirements and methods identified, WMS verifies that this parcel, project area, or application:

_____ **DOES NOT** contain stream channels and/or drainageways, as identified in WMS field or archival mapping information.*

X ~~_____~~ **DOES** contain ~~stream channels and/or drainageways~~ **AND** these are located and identified on submittal documents in general congruence with WMS field and archival mapping information.
*New or additional mapping **IS NOT REQUIRED**.**

_____ Contains stream channels and/or drainageways **BUT** one or more streams or other watercourses:

- are **NOT** shown on submittal documents, or
- are **NOT** depicted adequately on submittal documents for verification, or
- are **NOT** located or identified on submittal documents in general congruence with WMS field and archival mapping information.

*New or additional mapping **IS REQUIRED** and must be re-submitted for further review and verification.**

_____ Presence of stream channels and/or drainageways is unknown **AND** field verification is not possible at this time. WMS will verify as soon as conditions and prioritized resources allow.

* *Streams omitted in error by WMS or others remain subject to MOA Code and must be shown in new mapping upon identification of the error.*

ADDITIONAL INFORMATION:

- | | | | | |
|----------------------------|---------------------------------------|--|--------------------------------------|--------------------------------|
| <input type="checkbox"/> Y | <input checked="" type="checkbox"/> N | WMS written drainage recommendations are available. | <input type="checkbox"/> Preliminary | <input type="checkbox"/> Final |
| <input type="checkbox"/> Y | <input checked="" type="checkbox"/> N | WMS written field inspection report or map is available. | <input type="checkbox"/> Preliminary | <input type="checkbox"/> Final |
| <input type="checkbox"/> Y | <input checked="" type="checkbox"/> N | Field flagging and/or map-grade GPS data is available. | | |

Inspection Certified By:

Date:



9/6/24

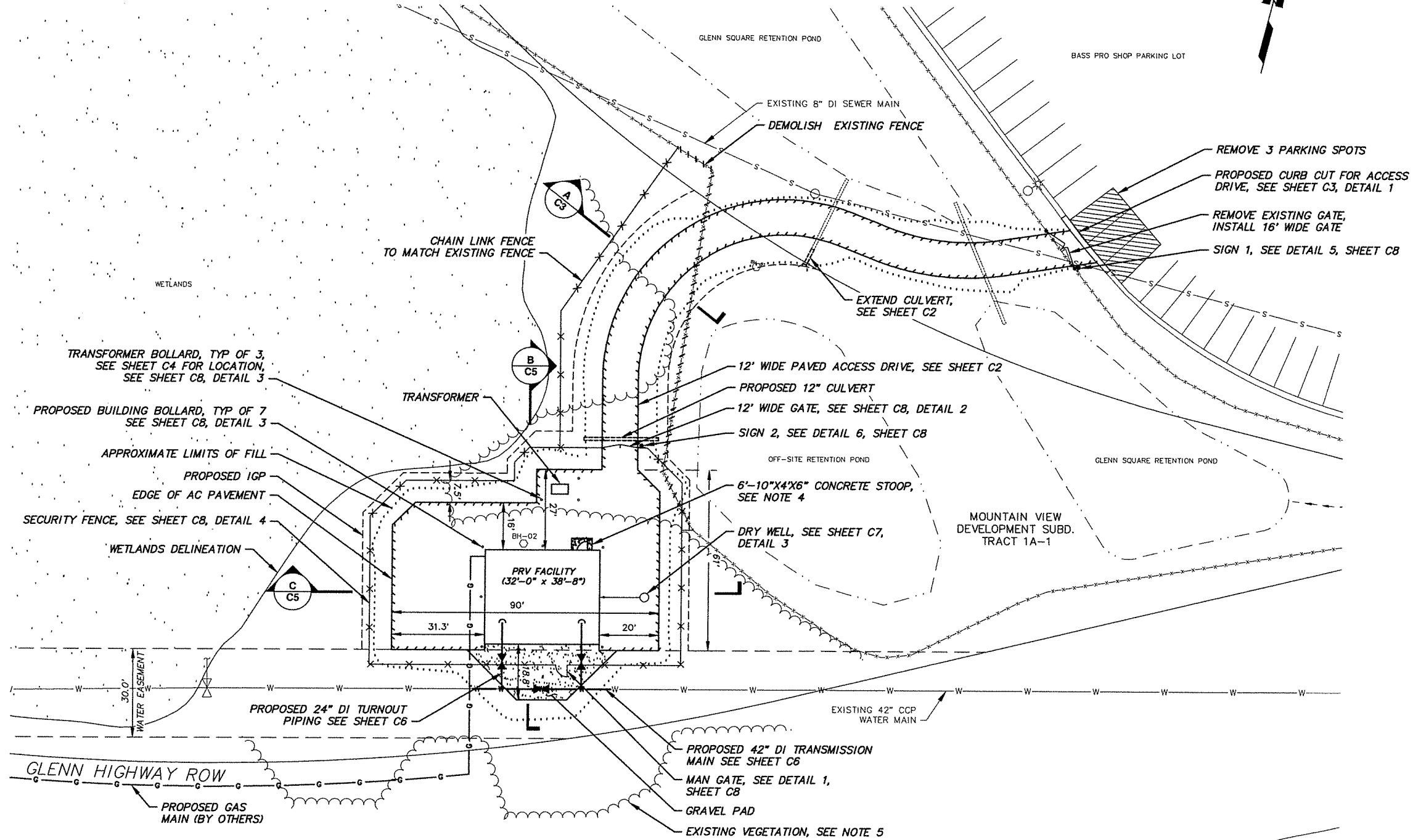
PLOT DATE: 10/2/2024 2:00 PM

PLOT SCALE:

ACAD FILE: J:\VegData\10337\00 Glenn Square PRV\00 CAD\01 Glenn Square PRV\00 CAD\01 Glenn Square PRV\00 CAD\01 Site Plan.dwg

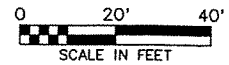
AWWU PLAN SET NO. 11131

SCHEDULE: A



NOTES:

- SEE GRADING PLAN ON SHEET C4 FOR GRADING AND PAVEMENT LIMITS.
- SEE SHEET C5 FOR SITE SECTIONS.
- TOPSOIL AND SEED ALL DISTURBED AREAS.
- CONCRETE LANDING SHALL BE SLOPED AWAY FROM DOOR AT 2%.
- PRESERVE A MINIMUM 10 FEET OF EXISTING VEGETATION ADJACENT TO DISTURBED AREAS AS NECESSARY TO MAINTAIN L2 BUFFER LANDSCAPING IN ACCORDANCE WITH "TITLE 21, LAND USE PLANNING, OF THE ANCHORAGE MUNICIPAL CODE OF ORDINANCES". ANY TREES REMOVED WITHIN THE 10 FOOT L2 BUFFER AREA, SHALL BE REPLACED WITH WHITE SPRUCE (PICEA GLAUCA) WITH A MINIMUM HEIGHT OF 8'.



| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE | |
|----------------|----------|---|------------------|---------|-----------|---|----|-----------------|-------------|
| DATA | DRAWN BY | CHECKED BY | DATE | REV | DATE | DESCRIPTION | BY | DATE | DESCRIPTION |
| BASE | TS | MJ | TELEPHONE | --- | --- | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | --- | --- | | | | |
| PLAN CHECK | | | | | REVISIONS | | | | |

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

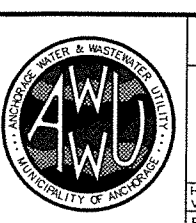
1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

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: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

REUSE OF DOCUMENTS

THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWWU AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF AWWU.



MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY
 GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY SITE PLAN

HORIZ SCALE: 1"=20'
 VERT SCALE: N/A
 PROJ. ID.: WW.00102

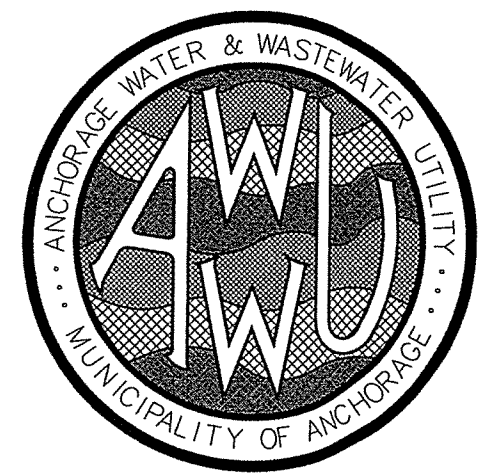
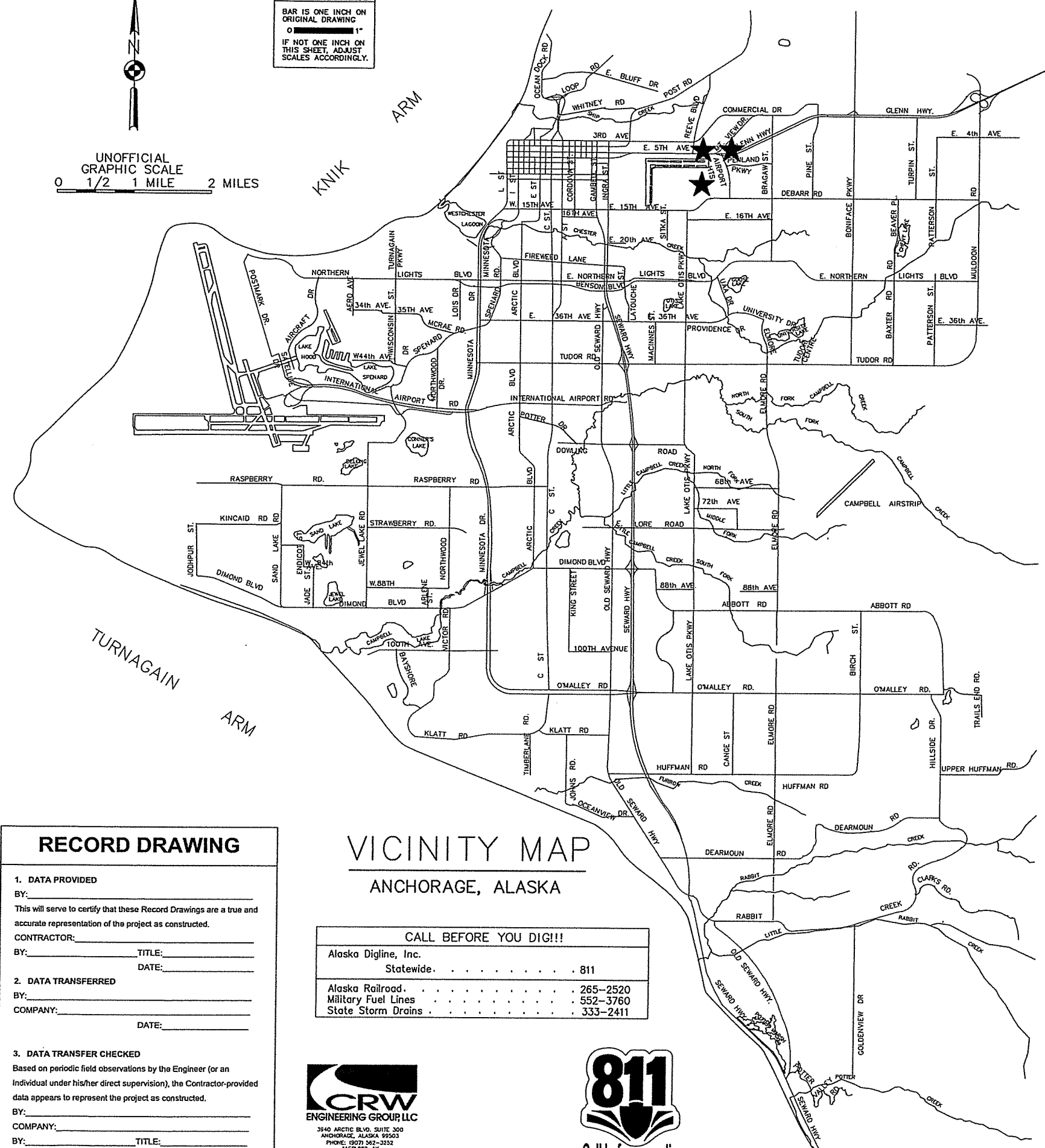
DATE: 5/19/21
 GRID: SW1234-35

SHEET C1 of C12



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

UNOFFICIAL GRAPHIC SCALE
 0 1/2 1 MILE 2 MILES



MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY
 PROJECT IDENTIFICATION No. WW.00102

MAY 2021

RECORD DRAWING

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: _____
 BY: _____ TITLE: _____
 DATE: _____

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

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

VICINITY MAP
 ANCHORAGE, ALASKA

CALL BEFORE YOU DIG!!!

| | |
|-------------------------------|-------------------------|
| Alaska Digline, Inc. | Statewide 811 |
| Alaska Railroad | 265-2520 |
| Military Fuel Lines | 552-3760 |
| State Storm Drains | 333-2411 |



LEGEND

| | |
|---|------------------|
| ★ | PROJECT LOCATION |
|---|------------------|

| SHEET INDEX | | |
|----------------|--|----------|
| DRAWING NO | SUBJECT | SCHEDULE |
| GENERAL | | |
| G1 | COVER SHEET | ALL |
| G2 | SHEET INDEX | ALL |
| G3 | GENERAL & WATER NOTES | ALL |
| G4 | LEGEND & ABBREVIATIONS | ALL |
| G5 | WATER & SEWER KEY MAPS | ALL |
| G6 | WATER SYSTEM SCHEMATIC | ALL |
| G7 | PRV STATION 9 TRAFFIC CONTROL PLAN | B |
| SURVEY CONTROL | | |
| V1 | GLENN SQUARE PRV FACILITY SURVEY CONTROL | A |
| V2 | PRV STATION 9 SURVEY CONTROL | B |
| CIVIL | | |
| C1 | GLENN SQUARE PRV FACILITY SITE PLAN | A |
| C2 | GLENN SQUARE PRV FACILITY ACCESS DRIVEWAY PLAN & PROFILE | A |
| C3 | GLENN SQUARE PRV FACILITY ACCESS DRIVEWAY SECTIONS & DETAILS | A |
| C4 | GLENN SQUARE PRV FACILITY GRADING PLAN | A |
| C5 | GLENN SQUARE PRV FACILITY SITE SECTION VIEWS | A |
| C6 | GLENN SQUARE PRV FACILITY WATER MAIN PLAN & PROFILE | A |
| C7 | GLENN SQUARE PRV FACILITY CIVIL DETAILS (1) | A |
| C8 | GLENN SQUARE PRV FACILITY CIVIL DETAILS (2) | A |
| C9 | GLENN SQUARE PRV FACILITY CIVIL DETAILS (3) | A |
| C10 | GLENN SQUARE PRV FACILITY CIVIL DETAILS (4) | A |
| C11 | PRV STATION 9 CHRYSLER VAULT SITE PLAN | B |
| C12 | PRV STATION 9 CHRYSLER VAULT PLAN & SECTION | B |
| ARCHITECTURAL | | |
| A1 | ARCHITECTURAL FLOOR PLAN & CODE SUMMARY | A |
| A2 | BUILDING ELEVATIONS | A |
| A3 | BUILDING SECTIONS | A |
| A4 | ARCHITECTURAL DETAILS | A |
| A5 | ARCHITECTURAL DETAILS | A |
| STRUCTURAL | | |
| S1 | GENERAL STRUCTURAL INFORMATION | A |
| S2 | GENERAL STRUCTURAL NOTES | A |
| S3 | SPECIAL INSPECTIONS TABLES | A |
| S4 | GLENN SQUARE PRV FACILITY FOUNDATION & ROOF FRAMING PLANS | A |
| S5 | GLENN SQUARE PRV FACILITY FRAMING SECTIONS | A |
| S6 | GLENN SQUARE PRV FACILITY TYPICAL DETAILS | A |
| S7 | GLENN SQUARE PRV FACILITY FOUNDATION & FRAMING DETAILS | A |
| S8 | GLENN SQUARE PRV FACILITY FRAMING DETAILS | A |
| MECHANICAL | | |
| M1 | MECHANICAL LEGEND AND ABBREVIATIONS | ALL |
| M2 | MECHANICAL SCHEDULES | A |
| M3 | GLENN SQUARE PRV FACILITY PIPING AND INSTRUMENTATIONS SCHEMATICS | A |
| M4 | GLENN SQUARE PRV FACILITY - FACILITY PLAN | A |
| M5 | GLENN SQUARE PRV FACILITY - SECTION VIEWS | A |
| M6 | MECHANICAL DETAILS | ALL |
| M7 | PRV STATION 10 ERA - PIPING AND INSTRUMENTATIONS SCHEMATICS | C |
| M8 | PRV STATION 10 ERA - FACILITY PLAN | C |
| M9 | PRV STATION 10 ERA - EXHIBIT PHOTOS | C |
| EX-M1 | GLENN SQUARE PRV FACILITY - CONTROL VALVE DETAILS I | A |
| EX-M2 | GLENN SQUARE PRV FACILITY - CONTROL VALVE DETAILS II | A |
| EX-M3 | PRV STATION 10 ERA - CONTROL VALVE DETAILS | C |

| SHEET INDEX | | |
|-------------|--|----------|
| DRAWING NO | SUBJECT | SCHEDULE |
| ELECTRICAL | | |
| EG1 | ELECTRICAL LEGEND AND NOTES | ALL |
| EG2 | SCHEMATIC LEGEND | ALL |
| EG3 | ELECTRICAL ABBREVIATIONS | ALL |
| E1 | GLENN SQUARE PRV FACILITY SITE PLAN | A |
| E2 | GLENN SQUARE PRV FACILITY ELECTRICAL PLAN | A |
| E3 | GLENN SQUARE PRV FACILITY INSTRUMENTATION PLAN | A |
| EC1 | GLENN SQUARE PRV FACILITY PLC RACK VIEW | A |
| EC2 | GLENN SQUARE PRV FACILITY SCADA WIRING | A |
| EC3 | GLENN SQUARE PRV FACILITY PLC PANEL VIEW | A |
| EC4 | GLENN SQUARE PRV FACILITY DIGITAL INPUTS (1 OF 2) | A |
| EC5 | GLENN SQUARE PRV FACILITY DIGITAL INPUTS (2 OF 2) | A |
| EC6 | GLENN SQUARE PRV FACILITY DIGITAL OUTPUTS (1 OF 3) | A |
| EC7 | GLENN SQUARE PRV FACILITY DIGITAL OUTPUTS (2 OF 3) | A |
| EC8 | GLENN SQUARE PRV FACILITY DIGITAL OUTPUTS (3 OF 3) | A |
| EC9 | GLENN SQUARE PRV FACILITY ANALOG INPUTS (1 OF 3) | A |
| EC10 | GLENN SQUARE PRV FACILITY ANALOG INPUTS (2 OF 3) | A |
| EC11 | GLENN SQUARE PRV FACILITY ANALOG INPUTS (3 OF 3) | A |
| EC12 | GLENN SQUARE PRV FACILITY ANALOG OUTPUTS | A |
| EC13 | GLENN SQUARE PRV FACILITY POWER MONITOR | A |
| E4 | PRV STATION 10 ERA INSTRUMENTATION DEMO PLAN | A |
| E5 | PRV STATION 10 ERA INSTRUMENTATION REMODEL PLAN | C |
| EC14 | PRV STATION 10 ERA PLC RACK VIEW | C |
| EC15 | PRV STATION 10 ERA SCADA WIRING | C |
| EC16 | PRV STATION 10 ERA PLC PANEL VIEW | C |
| EC17 | PRV STATION 10 ERA DIGITAL INPUTS (1 OF 2) | C |
| EC18 | PRV STATION 10 ERA DIGITAL INPUTS (2 OF 2) | C |
| EC19 | PRV STATION 10 ERA DIGITAL OUTPUTS | C |
| EC20 | PRV STATION 10 ERA ANALOG INPUTS (1 OF 2) | C |
| EC21 | PRV STATION 10 ERA ANALOG INPUTS (2 OF 2) | C |
| EC22 | PRV STATION 10 ERA ANALOG OUTPUTS (1 OF 2) | C |
| EC23 | PRV STATION 10 ERA ANALOG OUTPUTS (2 OF 2) | C |
| EC24 | PRV STATION 10 ERA SUMP PUMP CONTROLS | C |
| EC25 | PRV STATION 10 ERA DIGITAL INPUTS SPARE | C |
| EC26 | PRV STATION 10 ERA DIGITAL OUTPUTS SPARE (1 OF 2) | C |
| EC27 | PRV STATION 10 ERA DIGITAL OUTPUTS SPARE (2 OF 2) | C |
| EC28 | PRV STATION 10 ERA ANALOG INPUTS SPARE | C |
| ED1 | SCADA DETAIL (1 OF 2) | ALL |
| ED2 | SCADA DETAIL (2 OF 2) | ALL |
| ED3 | BATTERY CHARGER DETAIL | ALL |
| ED4 | ANTENNA DETAIL | ALL |

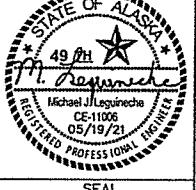
| PROJECT SCHEDULES | |
|-------------------|---------------------------|
| A | GLENN SQUARE PRV FACILITY |
| B | PRV STATION 9 CHRYSLER |
| C | PRV STATION 10 ERA |

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | 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 | REVISION | DATE | DESCRIPTION | BY | DATE | DESCRIPTION |
| BASE | TS | MJ | TELEPHONE | --- | --- | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | | | |
| GAS | RB | ML | MUL FINAL CHECK | --- | --- | | | | |
| PLAN CHECK | | | | | | | | | |
| REVISIONS | | | | | | | | | |

| RECORD DRAWING | | Note: To be filled out on original drawings upon project completion. | |
|---|-------|--|-------|
| 1. DATA PROVIDED 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. | _____ |
| This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed. | | | |
| CONTRACTOR: | _____ | DATA TRANSFER CHECKED BY: | _____ |
| BY: | _____ | COMPANY: | _____ |
| DATE: | _____ | BY: | _____ |
| 2. DATA TRANSFERRED BY: | _____ | DATE: | _____ |
| COMPANY: | _____ | | |
| DATE: | _____ | | |

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| MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY | | | |
|--|---------------|-----------------|-------|
| GLENN SQUARE PRV FACILITY | | | |
| SHEET INDEX | | | |
| HORZ SCALE: N/A | DATE: 5/19/21 | GRID: SW1234-35 | G2 |
| VERT SCALE: N/A | | | 67 |
| PROJ. ID.: WW.00102 | | | SHEET |

PLOT DATE: 5/19/2021 2:55 PM

PLOT SCALE:

ACAD FILE: J:_pob\pob\10337.dwg Glenn Square PRV\00 CAD\01 Working Set\01 Civil\10337.dwg Notes.dwg

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN THE 2015 EDITION OF THE MUNICIPALITY OF ANCHORAGE (MOA) STANDARD SPECIFICATIONS (HEREINAFTER REFERRED TO AS MASS); THE MOST RECENT VERSION OF THE AWWU DESIGN AND CONSTRUCTION PRACTICES MANUAL (DCPM); AND THE SPECIAL PROVISIONS.
2. MAINTAIN A MINIMUM OF TEN (10) FEET HORIZONTAL AND EIGHTEEN (18) INCHES VERTICAL SEPARATION BETWEEN WATER AND SANITARY OR STORM SEWER MAINS AND SERVICES.
3. SHRINK WRAP ALL WATER PIPE JOINTS WITHIN TEN (10) FEET HORIZONTAL OF SANITARY AND STORM SEWER CROSSINGS WITH CANUSAWRAP. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. IF ANY SANITARY OR STORM SEWER PIPE JOINTS ARE EXPOSED DURING EXCAVATION OF WATER MAIN, SHRINK WRAP SANITARY AND STORM SEWER PIPE JOINTS WITH CANUSAWRAP. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. MAINTAIN A MINIMUM OF 36 INCHES OF VERTICAL SEPARATION BETWEEN ANY STORM SEWER (STORM DRAIN OR FOOTING DRAIN) AND WATERLINE (MAINS OR SERVICES) OR SANITARY SEWER (MAINS OR SERVICES). IF 36 INCHES CANNOT BE MAINTAINED, PROVIDE A MINIMUM R-20 INSULATION. IF EIGHTEEN (18) INCHES CANNOT BE MAINTAINED, RELOCATE WATER MAIN.
6. CONSTRUCT WATER MAIN SO THAT JOINTS ARE EQUIDISTANT FROM EXISTING SANITARY SEWER AND EXISTING STORM SEWER PIPES.
7. HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
8. CONTRACTOR SHALL VERIFY AND RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND RECORD ANY CHANGES ON THE CONTRACTOR RECORD DRAWINGS.
9. THE CONTRACTOR SHALL RESTORE ALL DISTURBED PROPERTY, INCLUDING DRAINAGE SWALES, DISTURBED BY CONTRACT ACTIVITIES TO PRECONSTRUCTION CONDITION OR AS SHOWN ON THE PLANS.
10. IN CASE OF CONFLICT BETWEEN STATIONING OR DIMENSIONED LOCATION OF PIPE OR FITTINGS, USE DIMENSIONED LOCATIONS RELATIVE TO THE CENTERLINE AND PROPERTY LINE. THE DIMENSIONED LOCATIONS SHALL GOVERN.
11. THE CONTRACTOR SHALL RECORD SURVEY NOTES IN A FORMAT SIMILAR TO THAT SHOWN IN MASS DIVISION 65 FOR SUBMITTAL WITH RECORD DRAWING PLANS PRIOR TO CONTRACT FINAL PAYMENT.
12. ALL WATER PIPE INSULATION SHALL BE RIGID BOARD, HIGH DENSITY EXTRUDED POLYSTYRENE MIN. 60 P.S.I., FOR UNDERGROUND INSTALLATIONS EQUIVALENT TO R-20.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND MUNICIPAL LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IN PUBLIC RIGHT-OF-WAY WITHIN 24 HOURS OF THE TRACKING TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINS OR WATERWAYS.
14. WATER RESULTING FROM CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS UNLESS PERMITS ARE OBTAINED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO, THOSE REQUIRED BY THE MOA STORM WATER PLAN REVIEW OFFICE. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO DIVERT WATER FROM AN EXCAVATION ONTO ROADWAYS. CONTRACTOR SHALL PROVIDE A DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL PROVIDE COPIES OF NECESSARY PERMITS AND APPROVALS TO THE MOA RIGHT OF WAY PERMIT OFFICE.
15. "BOP" IS DEFINED AS THE OUTSIDE BOTTOM OF PIPE. INVERT "INV" IS DEFINED AS THE INSIDE BOTTOM OF PIPE.
16. ALL NUTS, BOLTS AND WASHERS USED TO CONSTRUCT VALVES SHALL BE STAINLESS STEEL (TYPE 316).
17. DAMAGE TO SEWER SERVICE CONNECTIONS MADE DURING WATERLINE CONSTRUCTION SHALL BE REPAIRED USING APPROVED MATERIALS WITH APPROVED COUPLINGS, AT CONTRACTOR'S EXPENSE.
18. CONTRACTOR SHALL INSTALL RESTRAINED FITTINGS ON ALL MECHANICAL JOINTS.

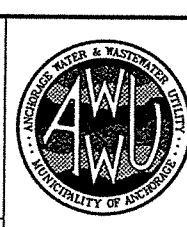
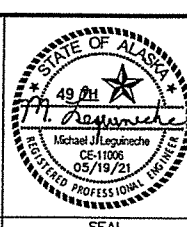
WATER NOTES

- 1. AWWU, ANCHORAGE FIRE DEPARTMENT (AFD) AND EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF WATER SERVICE INTERRUPTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY WATER SERVICE TO THE EXISTING CUSTOMERS IF THE OUTAGE EXCEEDS 6-HOURS OR IF DEEMED NECESSARY BY THE ENGINEER.
2. ALL WATER MAINS SHALL BE ZINC COATED DUCTILE IRON CLASS 52 PIPE AS SHOWN IN THE PLANS, CONFORMING TO THE REQUIREMENTS OF MASS SECTION 60.02 FURNISH AND INSTALL PIPE.
3. ALL PIPES, VALVES, BENDS, TEES, FIRE HYDRANTS AND DEAD-ENDS SHALL BE MECHANICALLY RESTRAINED, EBAA IRON MEGALUG SERIES 1100 OR APPROVED EQUAL UNLESS OTHERWISE NOTED. INSTALL THRUST BLOCKS AT ALL FITTINGS.
4. NO PIPE LENGTH LESS THAN EIGHT FEET (8') SHALL BE INCORPORATED IN THE WATER SYSTEM EXCEPT FOR THOSE NECESSARY FOR FIRE HYDRANTS OR VALVE LOCATIONS UNLESS RESTRAINED.
5. THE CONTRACTOR SHALL PROVIDE ALL SETUP AND TEAR DOWN REQUIRED TO OPEN BORE FLUSH NEWLY INSTALLED WATER PIPE. AWWU WILL PROVIDE FLUSH WATER FROM THE AWWU DISTRIBUTION SYSTEM. THE CONTRACTOR MUST REQUEST WATER AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO OPEN BORE FLUSHING. OPEN BORE FLUSHING MUST TAKE PLACE PRIOR TO INSTALLATION OF WATER SERVICES.
6. ALL WATER MAIN AND SERVICE TRENCH BACKFILL MATERIALS AND BEDDING SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY.
7. ALL WATER MAINS AND SERVICES SHALL HAVE A MINIMUM OF 10 FEET OF BURY AT ALL POINTS, UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING WATER SERVICES. INFORMATION HAS BEEN COMPILED FROM AS-BUILTS AND MAY VARY.
9. ALL PIPE BEDDING FOR DUCTILE IRON PIPE SHALL BE CLASS 'E' PER THE SPECIFICATIONS.
10. ALL DUCTILE IRON PIPE SHALL BE ENCASED IN 8-MIL V-BIO ENHANCED POLYETHYLENE ENCASEMENT PER MASS SECTION 60.02 FURNISH AND INSTALL PIPE.
11. MAXIMUM DEFLECTION OF PIPE PER JOINT SHALL NOT EXCEED 80% OF THE MANUFACTURERS RECOMMENDED DEFLECTION (4 DEGREES) FOR DIP.
12. FURNISH AND INSTALL ONE ANODE ON EACH VALVE AND FITTING.

VERIFY SCALE table with columns: DATA, DRAWN BY, CHECKED BY, DATE, DESCRIPTION, BY. Includes a graphical scale bar from 0 to 1 inch.

RECORD DRAWING form with fields for: DATA PROVIDED BY, DATE, TITLE, DATA TRANSFERRED BY, DATE, and a note: 'To be filled out on original drawings upon project completion.'

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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY, GLENN SQUARE PRV FACILITY, GENERAL & WATER NOTES. Includes project ID: WW.00102, date: 5/19/21, grid: SW1234-35, and sheet number 63 of 67.

AWWU PLAN SET NO. 11131

SCHEDULE: ALL

PLAN LEGEND

Table with 6 columns: SYMBOL, EXISTING, PROPOSED, SYMBOL, EXISTING, PROPOSED. Lists symbols for various infrastructure elements like manholes, junction boxes, vaults, poles, and valves.

Table with 6 columns: SYMBOL, EXISTING, PROPOSED, SYMBOL, EXISTING, PROPOSED. Lists symbols for electrical and utility infrastructure like transformers, pedestals, meters, and manholes.

PLAN LEGEND

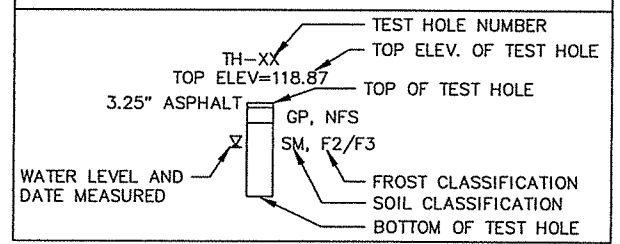
Table with 6 columns: SYMBOL, EXISTING, PROPOSED, SYMBOL, EXISTING, PROPOSED. Lists symbols for boundary lines, easements, pavement, water features, fences, vegetation, and other site features.

NOTE: THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

PROFILE LEGEND

Table with 6 columns: SYMBOL, EXISTING, PROPOSED, SYMBOL, EXISTING, PROPOSED. Lists symbols for profile views of grades, pipes, and soil types.

LEGEND - SOIL



COMMON ABBREVIATIONS

Table with 4 columns: ABBR., DESCRIPTION, ABBR., DESCRIPTION. Lists common abbreviations used in the drawing, such as AC for Asphalt Concrete, BM for Bench Mark, and various pipe and material codes.

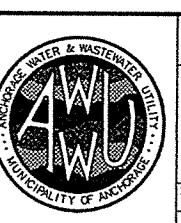
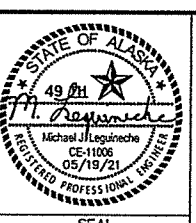


Table with 2 columns: CALL BEFORE YOU DIG!!!, Alaska Digline, Inc. Statewide. 811. Also lists contact info for Alaska Railroad, Military Fuel Lines, and State Storm Drains.

VERIFICATION SCALE table with columns for DATA, DRAWN, CHECKED, DATE, and DESCRIPTION. Includes a graphical scale bar from 0 to 1 inch.

RECORD DRAWING table with columns for DATA PROVIDED BY, DATA TRANSFERRED BY, and DATE. Includes a note about certifying the record drawings.

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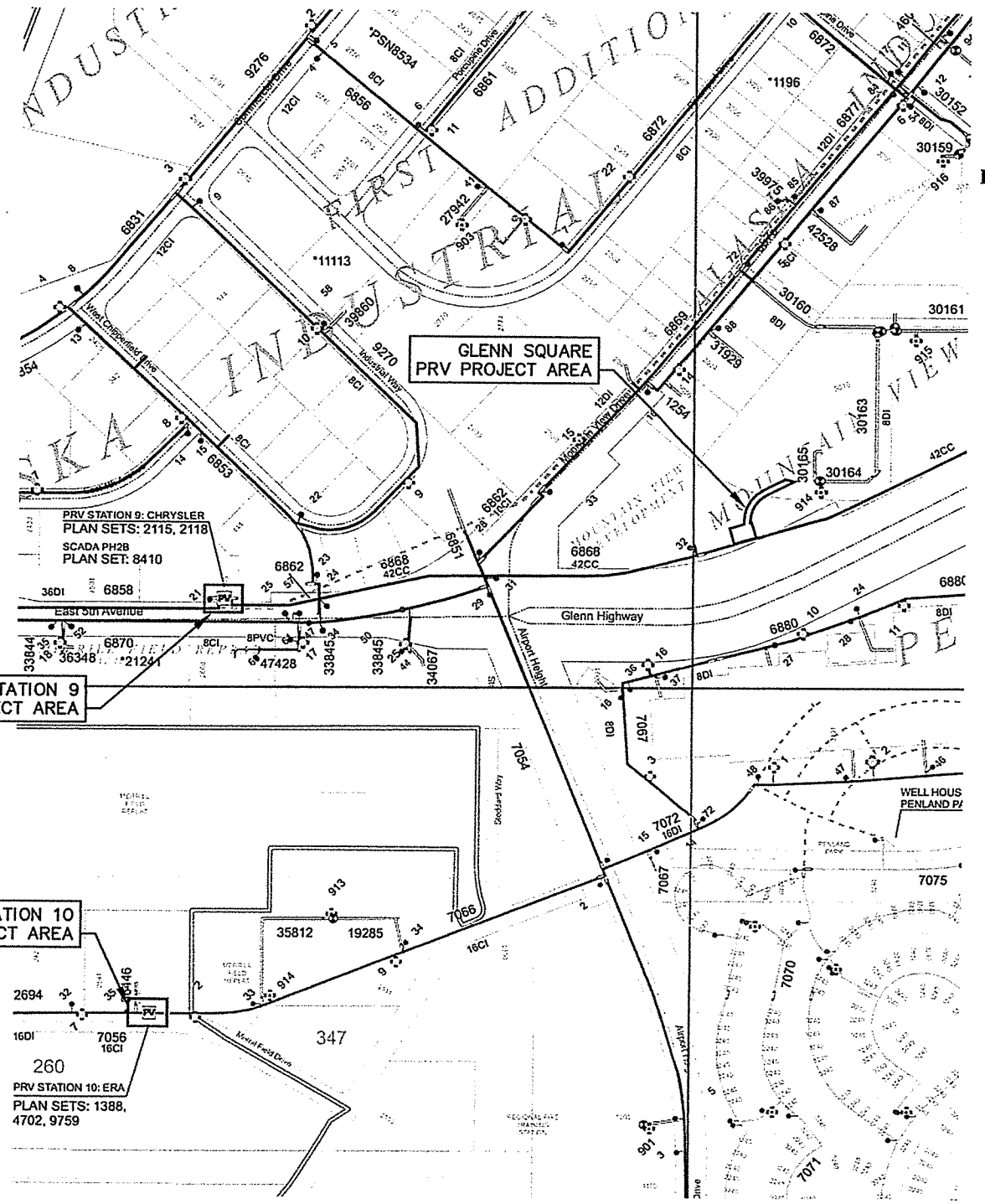
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY. GLENN SQUARE PRV FACILITY. LEGEND & ABBREVIATIONS. Includes project ID, date, grid, and sheet information.

AWWU PLAN SET NO. 11131 SCHEDULE: ALL

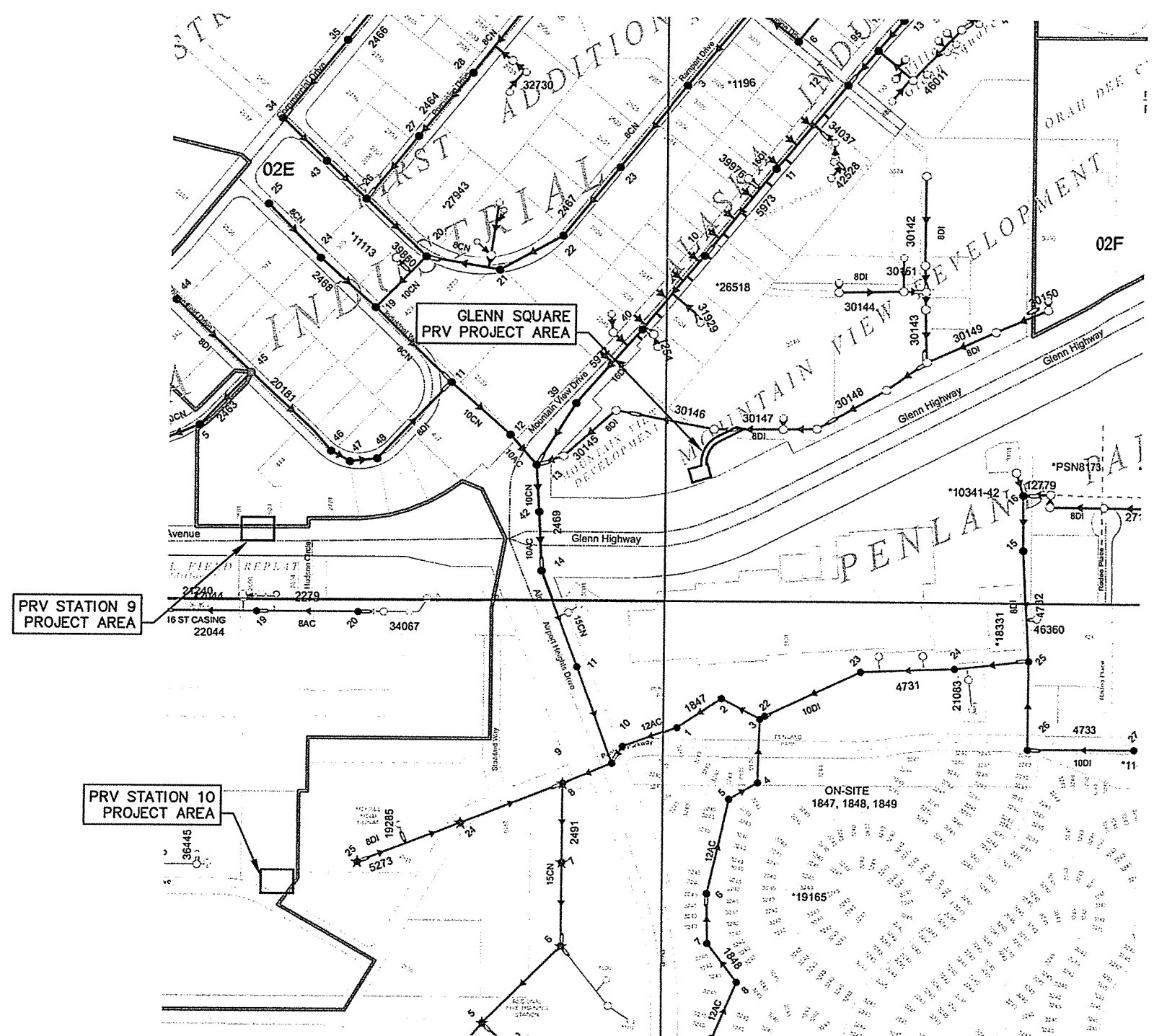
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PLOT SCALE:

ACAD FILE: J:\ssb\Info\10337.00 Glenn Square PRV\00 CAD\01 Working Set\00 General\10337.00 Wet Sew Key Maps.dwg



**WATER KEY MAP - GLENN SQUARE PRV
GRIDS - SW1234, SW1235 & SW 1334**



**SEWER KEY MAP - GLENN SQUARE PRV
GRIDS - SW1234 & SW1235**

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE HORIZ SCALE: N/A VERT SCALE: N/A | |
|----------------|------|---|------------------|----------|------------|---|------|--|----|
| DATA | DATE | DESIGNED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
| BASE | TS | MJ | TELEPHONE | --- | --- | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | --- | --- | | | | |
| PLAN CHECK | | | | | | | | | |
| REVISIONS | | | | | | | | | |

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

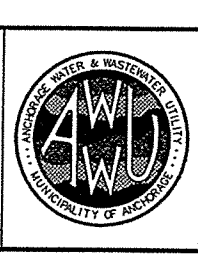
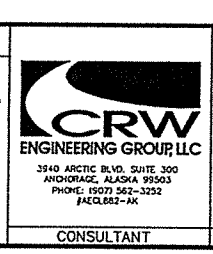
1. DATA PROVIDED BY: This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____ TITLE: _____
DATE: _____

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

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

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**MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY**

GLENN SQUARE PRV FACILITY

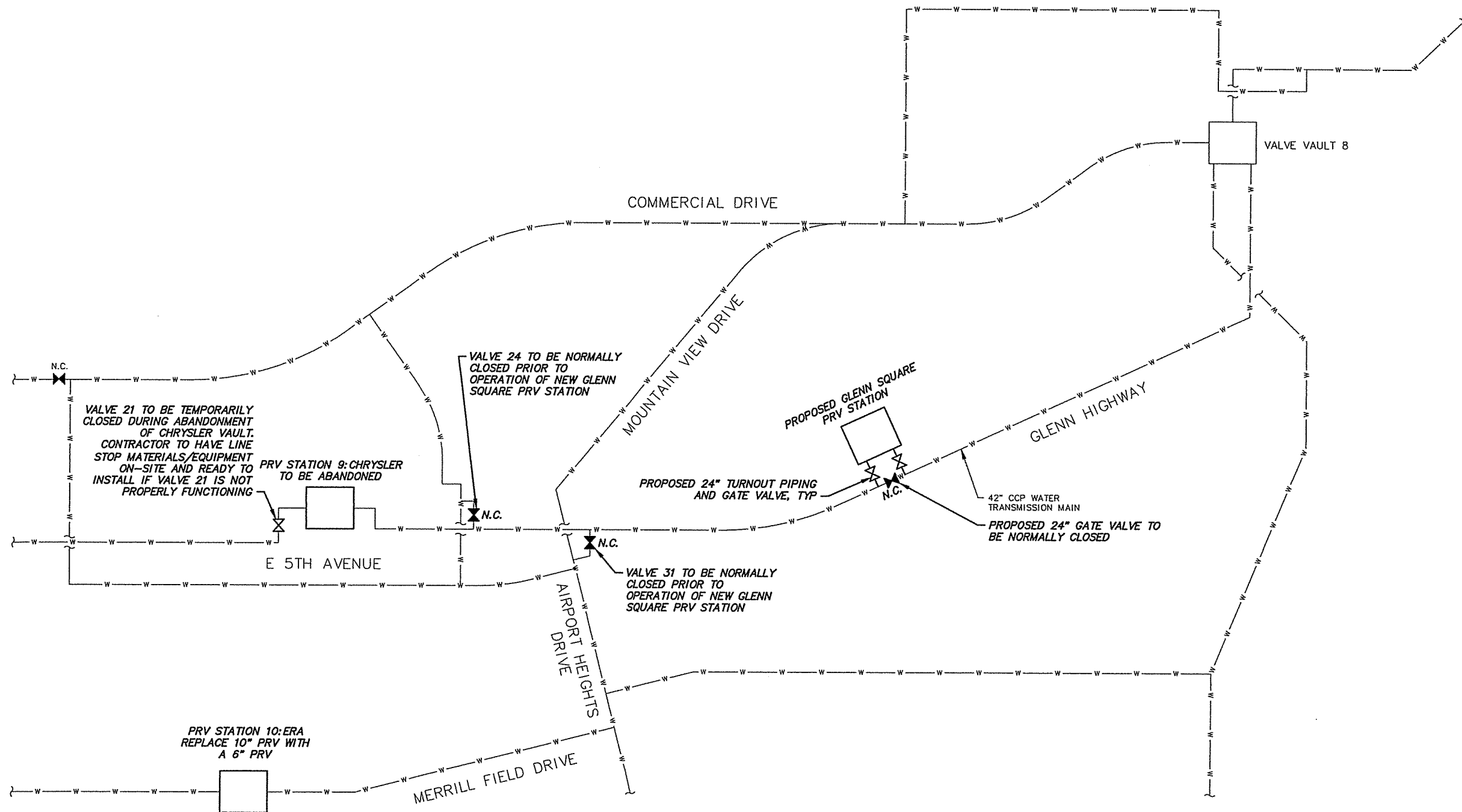
WATER & SEWER KEY MAPS

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: 5/19/21
GRID: SW1234-35
PROJ. ID.: WW.00102

SHEET 05 of 07

AWWU PLAN SET NO. 11131

SCHEDULE: ALL



| 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 | DATE | DESCRIPTION | BY | DATE | REVISIONS |
| BASE | TS | MJ | TELEPHONE | TS | MJ | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | |
| GAS | RB | ML | MIN. FINAL CHECK | --- | --- | | |
| PLAN CHECK | | | | REVISIONS | | | |

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

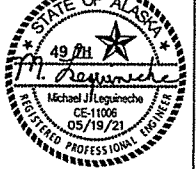
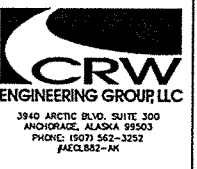
1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

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: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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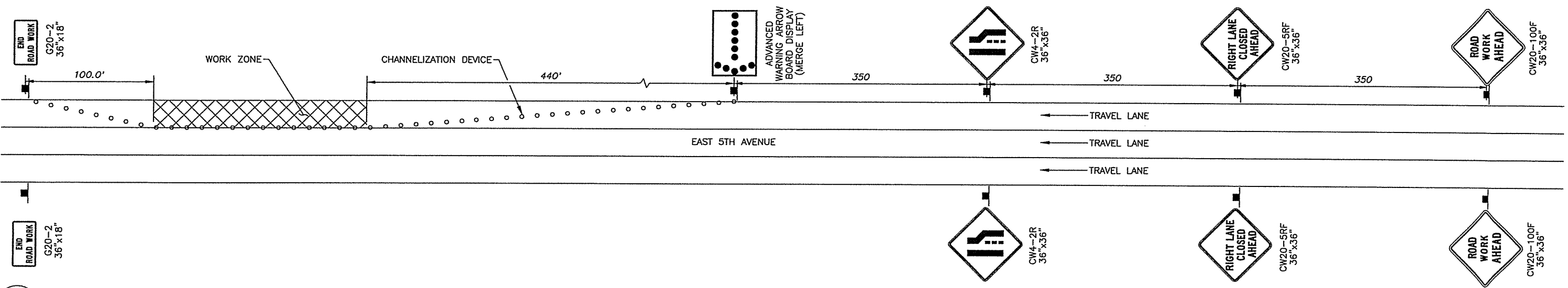
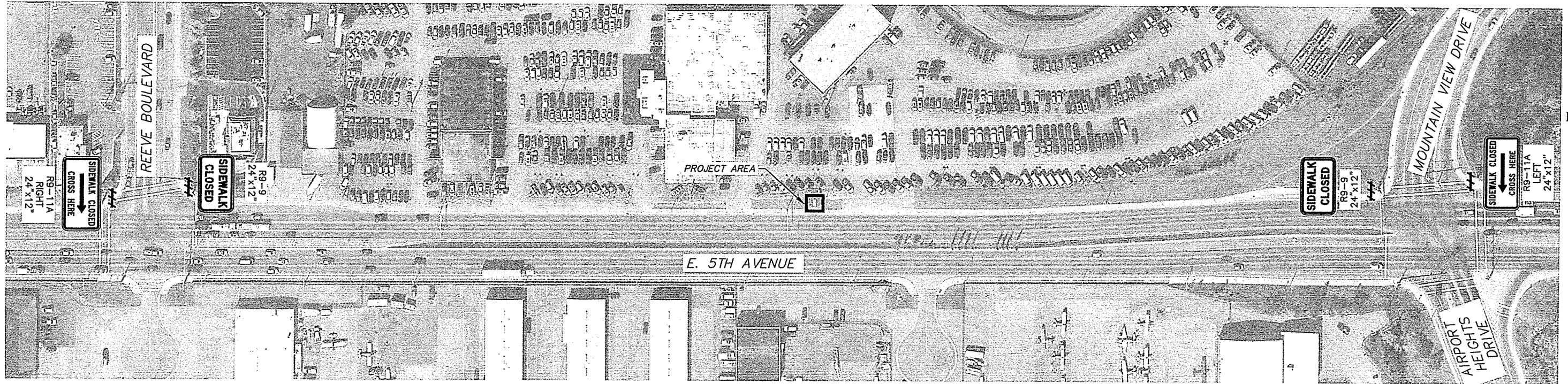
MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

WATER SYSTEM SCHEMATIC

HORIZ SCALE: N/A
 VERT SCALE: N/A
 DATE: 5/19/21
 GRID: SW1234-35
 PROJ. ID.: WW.00102

CONSULTANT SEAL SHEET 66 of 67



SINGLE LANE CLOSURE DETAIL

SCALE: NTS

GENERAL TRAFFIC CONTROL NOTES:

1. MAINTAIN TRAFFIC LANES, AND DRIVEWAYS OUTSIDE OF ACTIVE WORK.
2. PROVIDE HIGH LEVEL WARNING DEVICES (FLAG TREE) ATOP ALL SIGNS.
3. TYPE 'A' FLASHING WARNING LIGHTS SHALL BE USED TO MARK BARRICADES, LANE CLOSURES, AND TRAFFIC DETOUR SIGNS AT NIGHT.
4. ADJUST SIGN SPACING AS NECESSARY IN THE FIELD & AS DIRECTED BY THE ENGINEER.
5. THIS TRAFFIC CONTROL PLAN IS BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY. SUBMIT A COPY OF THE TRAFFIC CONTROL PLAN TO THE MUNICIPALITY OF ANCHORAGE AND THE ALASKA DEPARTMENT OF TRANSPORTATION (ADOT) FOR REVIEW AND APPROVAL. THE ADOT MAY LIMIT THE HOURS OF USE FOR THE SINGLE LANE CLOSURE ON EAST 5TH AVENUE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREPARE AND MODIFY THE TRAFFIC CONTROL PLAN FOR ADOT APPROVAL. PROVIDE A COPY OF APPROVAL TO THE ENGINEER PRIOR TO ANY WORK THAT IMPACTS TRAFFIC ON EAST 5TH AVENUE.

- LEGEND:**
- TRAFFIC CHANNELIZATION DEVICE
 - CONSTRUCTION SIGN
 - ▢ ARROW BOARD
 - ▬▬ TYPE II BARRICADE

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" — 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A | |
|----------------|--------|---|------------------|---------|------|---|------|---|-----------|
| DATA | DESIGN | CHECKED | DATE | BY | DATE | DESCRIPTION | DATE | BY | REVISIONS |
| BASE | TS | MJ | TELEPHONE | --- | --- | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | | | |
| GAS | RB | ML | WIR. FINAL CHECK | --- | --- | | | | |

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

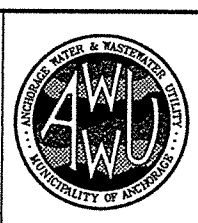
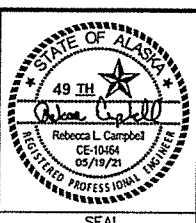
1. DATA PROVIDED BY: _____
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____ TITLE: _____
BY: _____ DATE: _____

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.
DATA TRANSFER CHECKED BY: _____
COMPANY: _____
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

PRV STATION 9 TRAFFIC CONTROL PLAN

HORZ SCALE: N/A
VERT SCALE: N/A
DATE: 5/19/21
GRID: SW1234-35
PROJ. ID.: WW.00102

CONSULTANT
SEAL

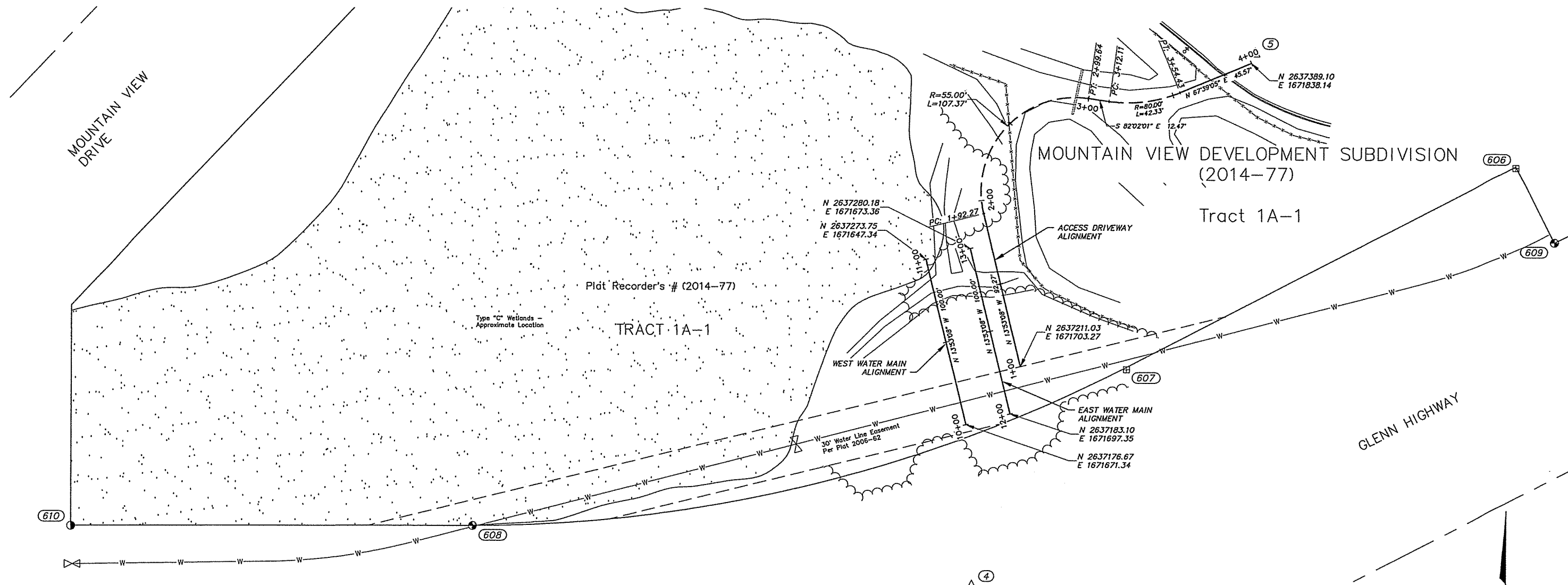
SHEET 67 of 67

PLOT DATE: 5/19/2021 11:18 AM

PLOT SCALE:

ACAD FILE: J:\subarea\10337000\Glen Square PRV\00 CAD\01 Working Set\02 Survey\03 Survey Control\000006721 Survey Control New PRV Site SPZ.dwg

AWWU PLAN SET NO. 11131



SURVEY NOTES:

1. The field survey was performed by CRW Engineering Group, LLC from February 25, 2016 to January 8, 2020. Field survey information for this project is located in the following CRW Engineering Group, LLC Field Book: No. 121, pages 53 through 60 and 66.
2. Underground street light lines exist within the project area.
3. A title search was not performed. Easements of record other than those shown on the recorded plats are not shown hereon.
4. All disturbed property corners shall be replaced by the contractor in accordance with Special Provision 65.02, Article 2.1 Project Control.
5. The Basis of Bearings is NAD83(2011) EPOCH: 2010 Alaska State Plane Zone 4 grid from GPS observations.
6. Coordinates are NAD83(2011) EPOCH: 2010 Alaska State Plane Zone 4, expressed in U.S. Survey Feet. The Basis of Coordinates is Point Number 1 per OPUS observations.
7. Elevations are based on the MOA Vertical Datum 1972 NGS adjustment. Bench Marks are CB-20 with Elev=143.83'. See MOA Bench Mark Book pages D-5.

| Horizontal Control | | | |
|--------------------|------------|------------|-----------------------------------|
| Point | Northing | Easting | Description |
| 4 | 2637081.67 | 1671675.39 | 2" Aluminum Cap on 5/8" Rebar |
| 5 | 2637394.72 | 1671840.57 | 1-1/8" Brass Survey Marker |
| 606 | 2637328.20 | 1671994.58 | 6"x6" Concrete R.O.W. Monument |
| 607 | 2637209.50 | 1671765.46 | 6"x6" Concrete R.O.W. Monument |
| 608 | 2637116.39 | 1671381.89 | 1-1/4" Brass Cap on Concrete Post |
| 609 | 2637284.63 | 1672017.42 | 2-1/4" Brass Cap on Iron Post |
| 610 | 2637116.09 | 1671145.00 | 2" Aluminum Cap |

LEGEND

- ⊕ Existing Brass Cap Monument
- ⊞ Existing Concrete R.O.W. Monument
- ⊙ Existing Aluminum Cap
- △ Control set by CRW
- ⑤ Control Point Number

VERIFY SCALE

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" = 1"

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

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

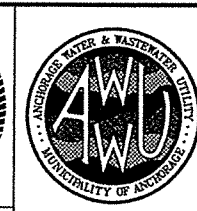
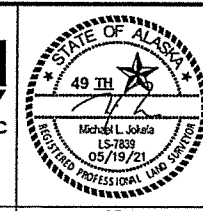
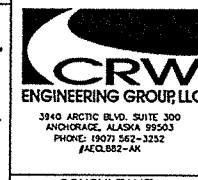
RECORD DRAWING

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: _____
BY: _____ 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: _____
COMPANY: _____
BY: _____ TITLE: _____
DATE: _____

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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY SURVEY CONTROL

HORIZ SCALE: 1"=30'
VERT SCALE: N/A
DATE: 5/19/21
GRID: SW1234-35
PROJ. ID: WW.00102
SHEET V1 of V2

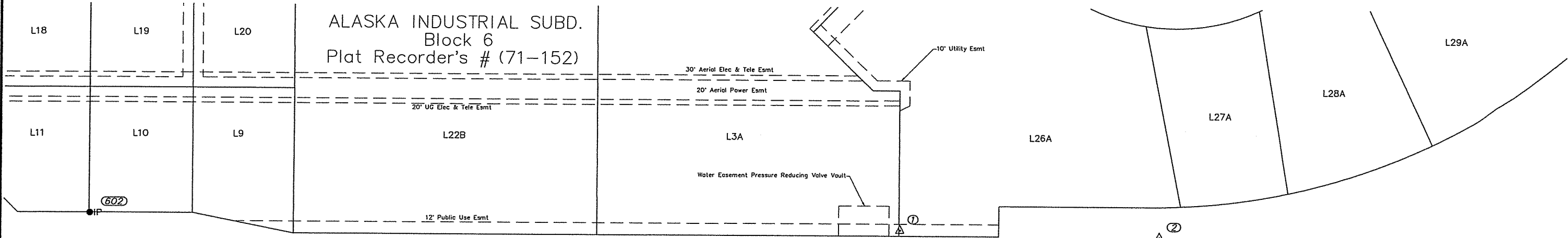
SCHEDULE: A

PLOT DATE: 5/19/2021 11:18 AM
PLOT SCALE:

ACAD FILE: J:_data\10337.00 Glenn Square PRV 00 CAD\01 Working Set\02 Survey\03 Survey Control\00000006721 Survey Control SP24.dwg

AWWU PLAN SET NO. 11131

SCHEDULE: B



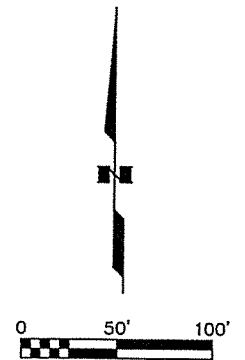
EAST 5TH AVENUE

MERRILL FIELD REPLAT ADDN. NO. 6
Block 2
Plat Recorder's # (2009-120)

L9C L10C L11C TRACT D L12C

SURVEY NOTES:

- The field survey was performed by CRW Engineering Group, LLC from Dec 4, 2015 to Jan 20, 2016. Field survey information for this project is located in the following CRW Engineering Group, LLC field books: No. 121, pages 44 through 51.
- Underground street light lines exist within the project area.
- A title search was not performed. Easements of record other than those shown on the recorded plats are not shown hereon.
- All disturbed property corners shall be replaced by the contractor in accordance with Special Provision 65.02, Article 2.1 Project Control.
- The Basis of Bearings is NAD83(2011) EPOCH: 2010 Alaska State Plane Zone 4 grid from GPS observations.
- Coordinates are NAD83(2011) EPOCH: 2010 Alaska State Plane Zone 4, expressed in U.S. Survey Feet. The Basis of Coordinates is Point Number 1 per OPUS observations.
- Elevations are based on the MOA Vertical Datum 1972 NGS adjustment. Bench Marks are CB-2D with Elev=143.83'. See MOA Bench Mark Book pages D-5.



| Horizontal Control | | | |
|--------------------|------------|------------|--------------------------------|
| Point | Northing | Easting | Description |
| 1 | 2637011.92 | 1670169.68 | Set 1 1/8" Brass Plug |
| 2 | 2637006.01 | 1670429.06 | Set 1 1/8" Brass Plug |
| 602 | 2637025.51 | 1669369.44 | Found 5/8" Rebar |
| 603 | 2636866.35 | 1670780.02 | Found 2" Aluminum Cap on Rebar |

LEGEND

- Existing Aluminum Cap
- Existing Rebar
- △ Control set by CRW
- (500) Control Point Number

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE | |
|----------------|----------|---|------|----------|------|---|-----------|-----------------|-------------|
| DATA | DRAWN BY | CHECKED BY | DATE | REVISION | DATE | DESCRIPTION | BY | DATE | DESCRIPTION |
| BASE | TS | MJ | | | | TELEPHONE | TS | MJ | |
| TOPOGRAPHY | TS | MJ | | | | ELECTRIC | TS | MJ | |
| PROFILE | --- | --- | | | | CABLE TV | --- | --- | |
| SANITARY SEWER | TS | MJ | | | | TRAFFIC SIGNAL | --- | --- | |
| STORM SEWER | TS | MJ | | | | DESIGN | RB | ML | |
| WATER | TS | MJ | | | | QUANTITIES | RB | ML | |
| GAS | RB | ML | | | | MIN. FINAL CHECK | --- | --- | |
| PLAN CHECK | | | | | | | REVISIONS | | |

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

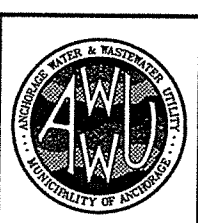
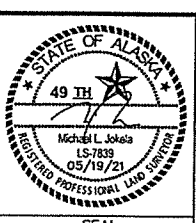
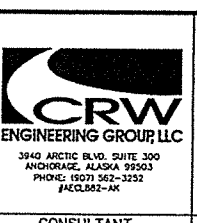
1. DATA PROVIDED BY: _____
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____ TITLE: _____
BY: _____ DATE: _____

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

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

PRV STATION 9 SURVEY CONTROL

HORIZ SCALE: 1"=50'
VERT SCALE: N/A
DATE: 5/19/21
GRID: SW1234-35
PROJ. ID.: WW.00102

SHEET V2 of V2

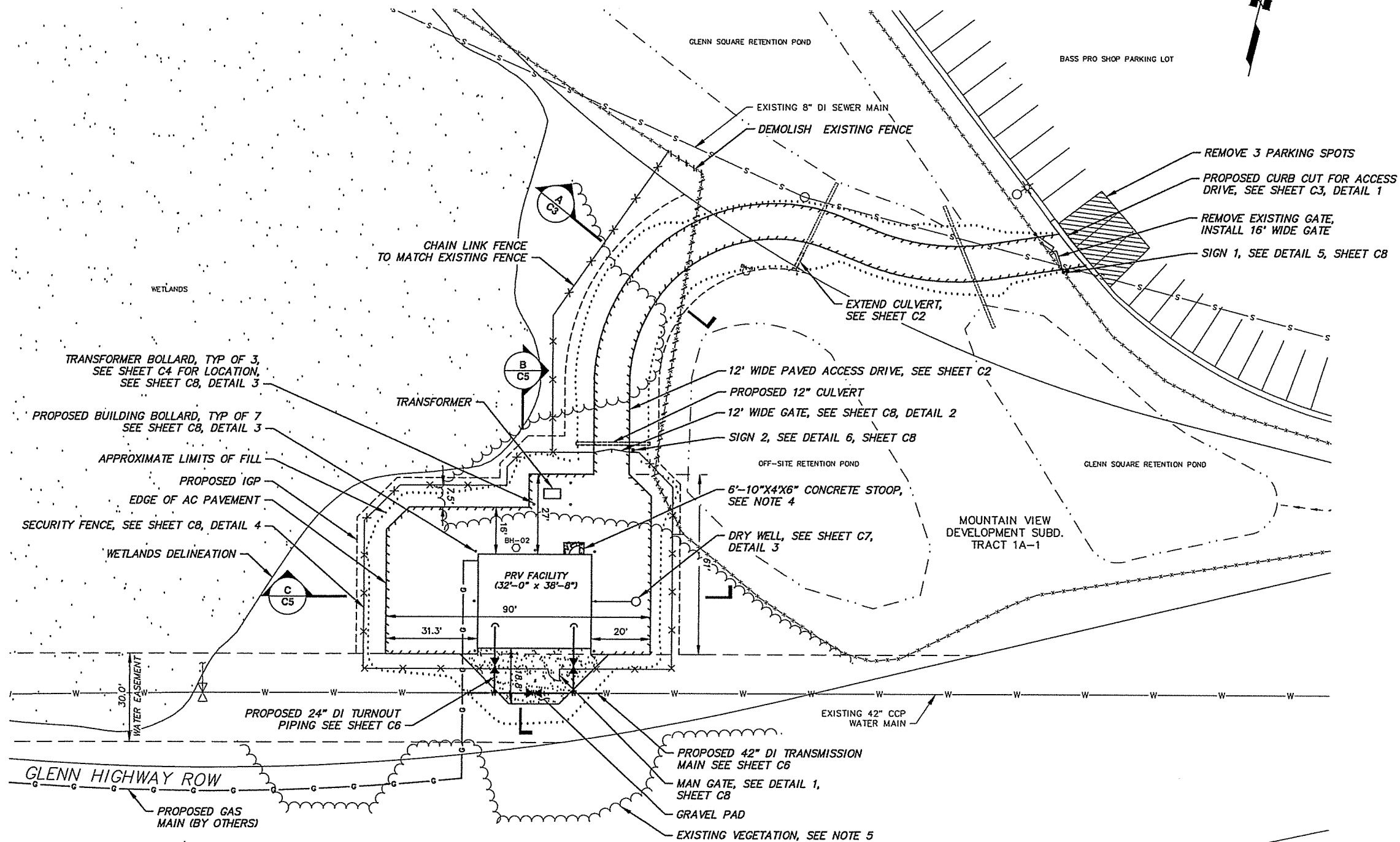
PLOT DATE: 10/2/2024 2:00 PM

PLOT SCALE:

ACAD FILE: J:\labdata\10337.00 Glenn Square PRV\00 CAD\01 Working Set\01 civil\10337.00 Site Plan.dwg

AWWU PLAN SET NO. 11131

SCHEDULE: A



NOTES:

- SEE GRADING PLAN ON SHEET C4 FOR GRADING AND PAVEMENT LIMITS.
- SEE SHEET C5 FOR SITE SECTIONS.
- TOPSOIL AND SEED ALL DISTURBED AREAS.
- CONCRETE LANDING SHALL BE SLOPED AWAY FROM DOOR AT 2%.
- PRESERVE A MINIMUM 10 FEET OF OF EXISTING VEGETATION ADJACENT TO DISTURBED AREAS AS NECESSARY TO MAINTAIN L2 BUFFER LANDSCAPING IN ACCORDANCE WITH "TITLE 21, LAND USE PLANNING, OF THE ANCHORAGE MUNICIPAL CODE OF ORDINANCES". ANY TREES REMOVED WITHIN THE 10 FOOT L2 BUFFER AREA, SHALL BE REPLACED WITH WHITE SPRUCE (PICEA GLAUCA) WITH A MINIMUM HEIGHT OF 8'.

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE HORIZ SCALE: N/A VERT SCALE: N/A | |
|----------------|----------|---|------------------|----------|------------|---|------|--|-----------|
| DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
| BASE | TS | MJ | TELEPHONE | --- | --- | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | | | |
| GAS | RB | ML | MIN. FINAL CHECK | --- | --- | | | | |
| PLAN CHECK | | | | | | | | | REVISIONS |

RECORD DRAWING

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

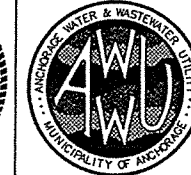
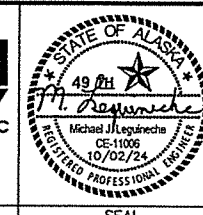
1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

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: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY
 GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY SITE PLAN

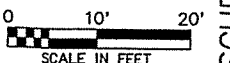
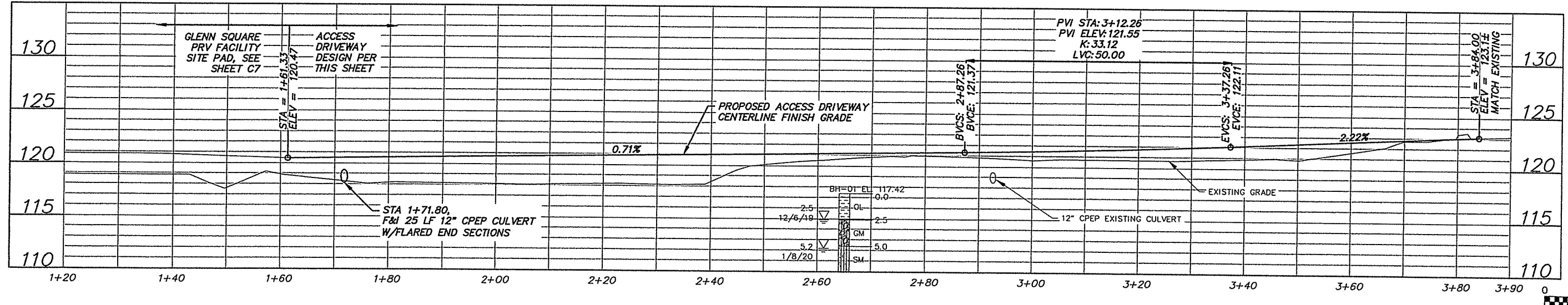
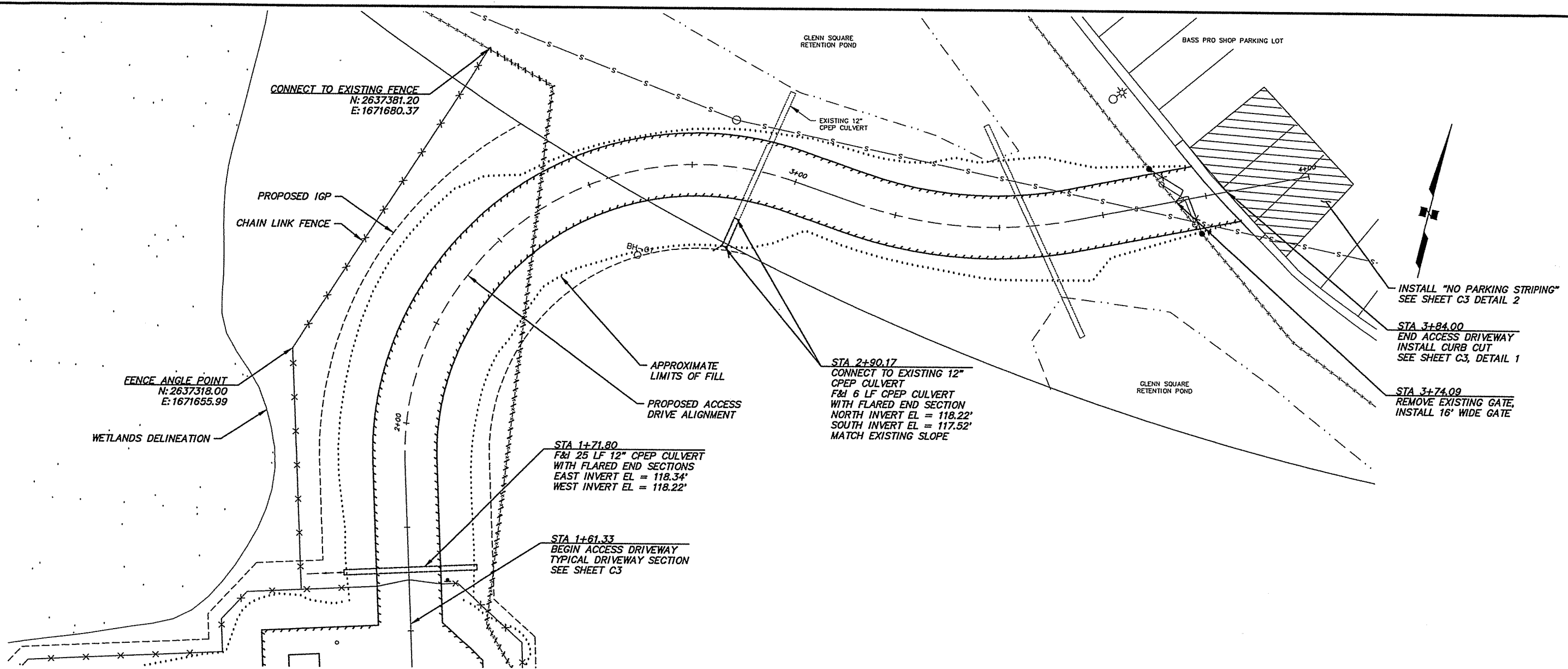
| | | | |
|---------------------|---------------------|-----------------|-----------|
| HORIZ SCALE: 1"=20' | DATE: 5/19/21 | GRID: SW1234-35 | C1 of C12 |
| VERT SCALE: N/A | PROJ. ID.: WW.00102 | SHEET | |

PLOT DATE: 5/18/2021 3:05 PM

PLOT SCALE:

ACAD FILE: I:\JobsData\10337.00 Glenn Square PRV\00 CAD\01 Working Set\01 Civil\10337.00 Plan And Profile - Roadway.dwg

AWWU PLAN SET NO. 11131



| 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 |
| BASE | TS | MJ | TELEPHONE | TS | MJ | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | |
| PROFILE | RB | ML | CABLE TV | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | | | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | |
| GAS | RB | ML | MUN. FINAL CHECK | | | | |
| PLAN CHECK | | | | REVISIONS | | | |

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

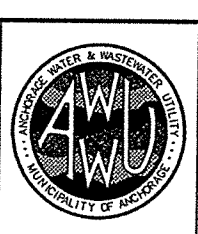
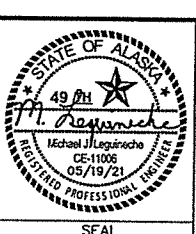
1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

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

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 COMPANY: _____ TITLE: _____
 BY: _____ DATE: _____

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MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY ACCESS DRIVEWAY PLAN & PROFILE

HORIZ SCALE: 1"=20'
 VERT SCALE: 1"=5'
 DATE: 5/19/21
 GRID: SM234-35
 PROJ. ID.: WW.00102
 SHEET C2 of C12

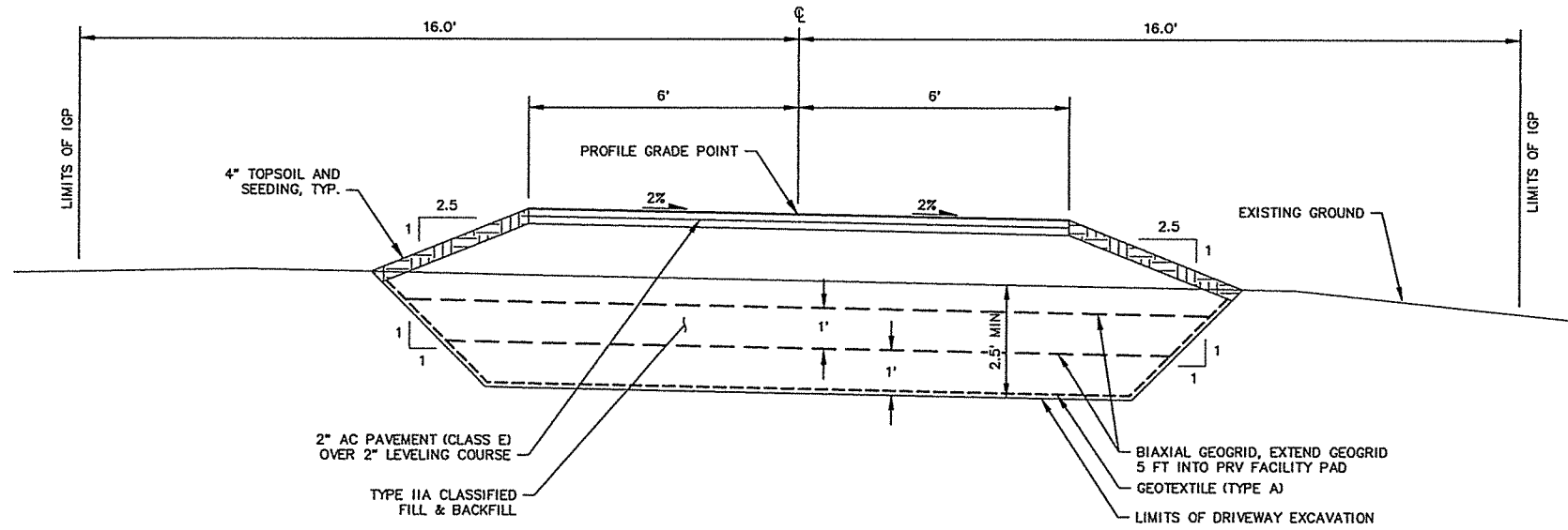
SCHEDULE: A

PLOT DATE: 5/19/2021 3:05 PM

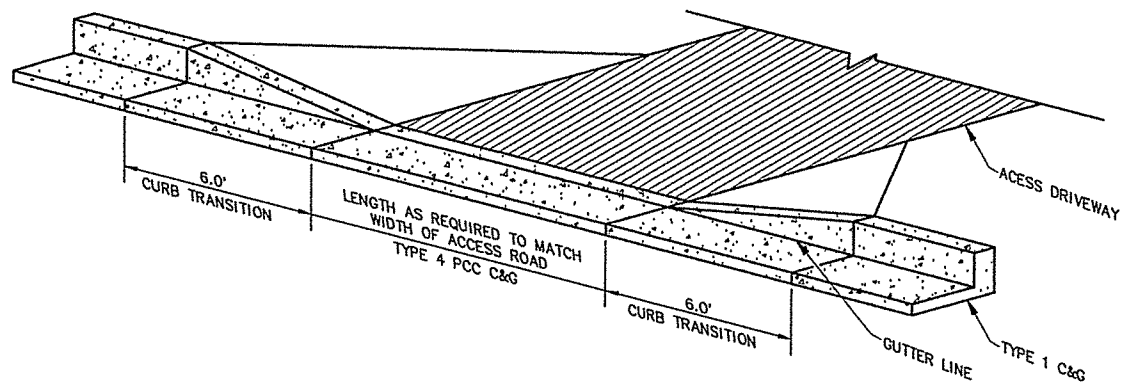
PLOT SCALE:

ACAD FILE: J:\ssbdata\10337.00 Glenn Square PRV\00 CADD\01 Civil\10337.00 Typical Section - Driveway.dwg

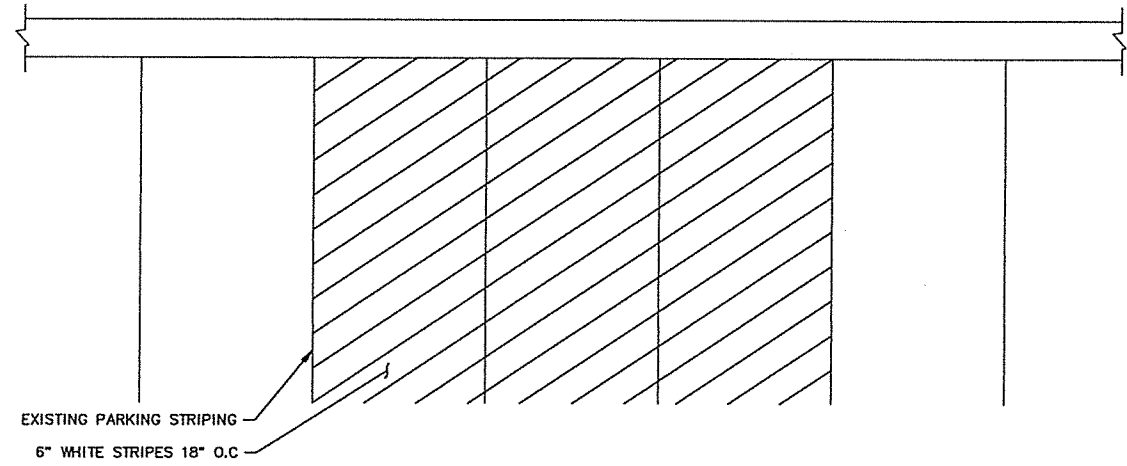
AWWU PLAN SET NO. 11131



A **TYPICAL SECTION "A" ACCESS DRIVEWAY**
STA 1+61 TO 3+84



1 **CURB CUT DETAIL**
SCALE: NTS



2 **PAVEMENT MARKING DETAIL**
SCALE: NTS

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" = 1"

| DATA | DRAWN BY | CHECKED BY | DATE | DESCRIPTION | BY |
|----------------|----------|------------|------|------------------|----|
| BASE | TS | MJ | | TELEPHONE | |
| TOPOGRAPHY | TS | MJ | | ELECTRIC | |
| PROFILE | --- | --- | | CABLE TV | |
| SANITARY SEWER | TS | MJ | | TRAFFIC SIGNAL | |
| STORM SEWER | TS | MJ | | DESIGN | |
| WATER | TS | MJ | | QUANTITIES | |
| GAS | RB | ML | | MUN. FINAL CHECK | |

PLAN CHECK

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

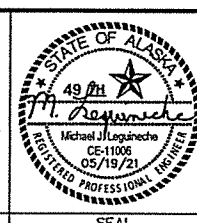
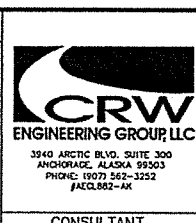
1. DATA PROVIDED BY: _____
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____ TITLE: _____
DATE: _____

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

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

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

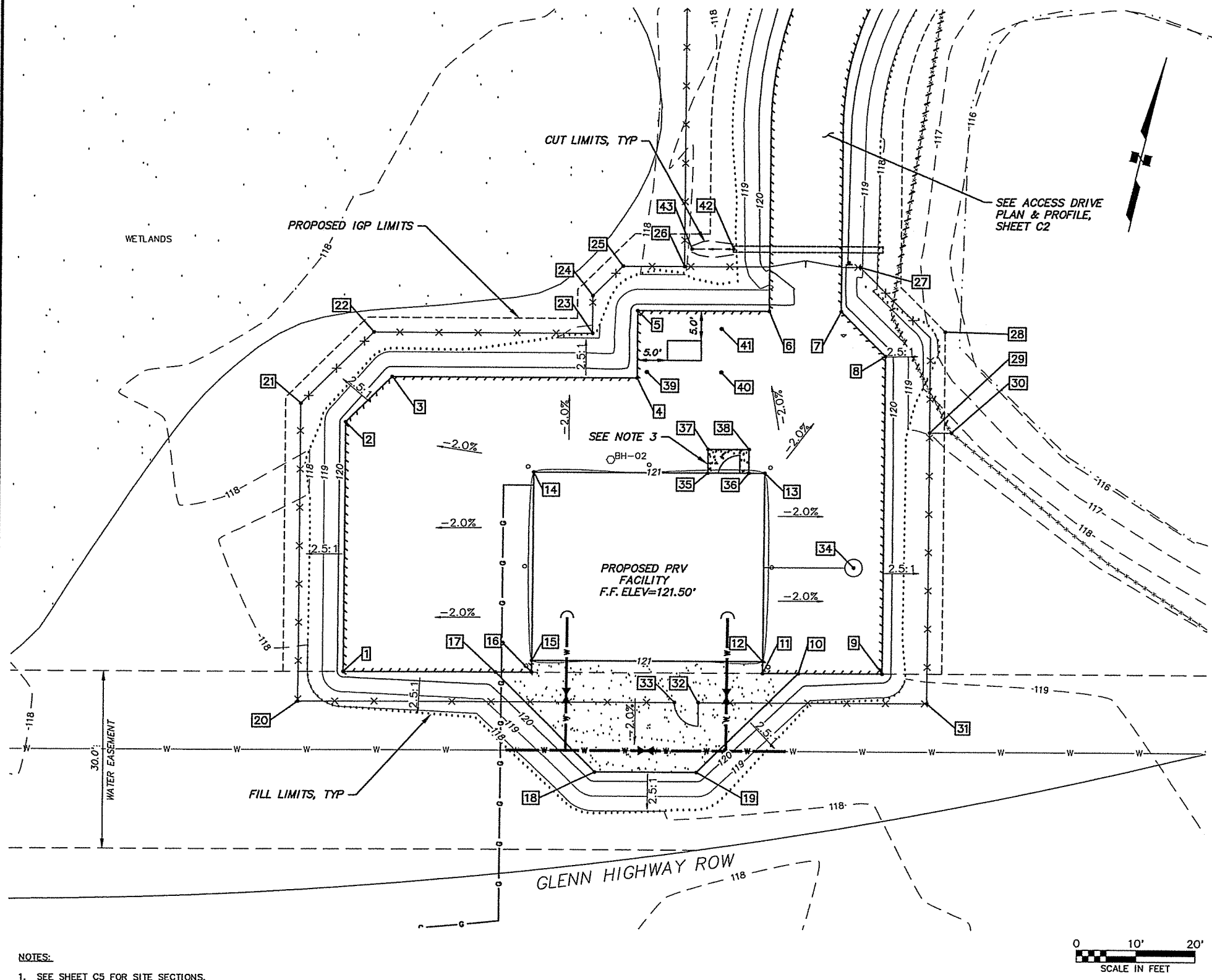
GLENN SQUARE PRV FACILITY ACCESS DRIVEWAY SECTIONS & DETAILS

| | | | |
|-----------------|---------------|-----------------|--------|
| HORZ SCALE: N/A | DATE: 5/19/21 | GRID: SW1234-35 | C3 |
| VERT SCALE: N/A | | | of C12 |

PROJ. ID.: WW.00102 SHEET

SCHEDULE: A

ACAD FILE: J:\webdata\10337.00 Glenn Square PRV\00 CAD\01 Working Set\01 Civil\10337.00 Grading Plan.dwg
 PLOT DATE: 5/19/2021 3:06 PM
 PLOT SCALE:



| POINT SUMMARY | | | | |
|---------------|------------|------------|-----------|-----------------------------------|
| POINT | NORTHING | EASTING | ELEVATION | DESCRIPTION |
| 1 | 2637192.67 | 1671629.01 | 120.37 | EDGE OF PAVEMENT |
| 2 | 2637233.77 | 1671618.85 | 120.37 | EDGE OF PAVEMENT |
| 3 | 2637243.05 | 1671624.45 | 120.68 | EDGE OF PAVEMENT |
| 4 | 2637252.85 | 1671664.11 | 120.68 | EDGE OF PAVEMENT |
| 5 | 2637263.85 | 1671661.39 | 120.45 | EDGE OF PAVEMENT |
| 6 | 2637269.13 | 1671682.73 | 120.45 | EDGE OF PAVEMENT |
| 7 | 2637272.01 | 1671694.38 | 120.50 | EDGE OF PAVEMENT |
| 8 | 2637266.53 | 1671703.46 | 120.53 | EDGE OF PAVEMENT |
| 9 | 2637214.27 | 1671716.38 | 120.60 | EDGE OF PAVEMENT |
| 10 | 2637210.91 | 1671702.79 | 120.87 | EDGE OF PAVEMENT / GRAVEL |
| 11 | 2637209.47 | 1671696.96 | 120.95 | EDGE OF PAVEMENT |
| 12 | 2637211.41 | 1671696.48 | 121.00 | BUILDING CORNER |
| 13 | 2637242.47 | 1671688.80 | 121.00 | BUILDING CORNER |
| 14 | 2637233.19 | 1671651.26 | 121.00 | BUILDING CORNER |
| 15 | 2637202.13 | 1671658.94 | 121.00 | BUILDING CORNER |
| 16 | 2637200.19 | 1671659.42 | 120.95 | EDGE OF PAVEMENT |
| 17 | 2637198.75 | 1671653.59 | 120.87 | EDGE OF PAVEMENT / GRAVEL |
| 18 | 2637186.43 | 1671673.99 | 120.62 | EDGE OF GRAVEL |
| 19 | 2637190.51 | 1671690.48 | 120.62 | EDGE OF GRAVEL |
| 20 | 2637186.02 | 1671622.93 | 117.96 | FENCE CORNER |
| 21 | 2637234.98 | 1671610.82 | 118.69 | FENCE CORNER |
| 22 | 2637249.58 | 1671619.64 | 118.70 | FENCE CORNER |
| 23 | 2637258.33 | 1671655.03 | 117.80 | FENCE CORNER |
| 24 | 2637264.48 | 1671653.51 | 118.69 | FENCE CORNER |
| 25 | 2637270.53 | 1671657.17 | 118.29 | FENCE CORNER |
| 26 | 2637272.99 | 1671667.11 | 117.95 | FENCE CORNER |
| 27 | 2637280.03 | 1671695.60 | 119.17 | FENCE CORNER |
| 28 | 2637272.95 | 1671712.17 | 116.58 | FENCE CORNER |
| 29 | 2637255.83 | 1671713.83 | 118.96 | FENCE CORNER |
| 30 | 2637256.71 | 1671717.41 | 118.41 | FENCE CORNER, CONNECT TO EXISTING |
| 31 | 2637211.21 | 1671724.86 | 118.84 | FENCE CORNER |
| 32 | 2637202.06 | 1671687.82 | 120.86 | GATE POST, MAN GATE |
| 33 | 2637201.10 | 1671683.94 | 120.86 | GATE POST, MAN GATE |
| 34 | 2637230.54 | 1671707.21 | 120.70 | DRY WELL |
| 35 | 2637240.19 | 1671679.58 | 121.50 | STOOP AT BUILDING FINISH FLOOR |
| 36 | 2637241.83 | 1671686.21 | 121.50 | STOOP AT BUILDING FINISH FLOOR |
| 37 | 2637244.08 | 1671678.62 | 121.42 | EDGE OF STOOP |
| 38 | 2637245.72 | 1671685.25 | 121.42 | EDGE OF STOOP |
| 39 | 2637254.21 | 1671665.43 | 120.66 | TRANSFORMER BOLLARD |
| 40 | 2637257.20 | 1671677.53 | 120.66 | TRANSFORMER BOLLARD |
| 41 | 2637264.32 | 1671675.77 | 120.51 | TRANSFORMER BOLLARD |
| 42 | 2637277.82 | 1671674.35 | 118.22 | DITCH |
| 43 | 2637276.15 | 1671667.60 | 118.18 | DITCH |

- NOTES:**
- SEE SHEET C5 FOR SITE SECTIONS.
 - TOPSOIL AND SEED ALL DISTURBED AREAS.
 - GRADE FROM EDGE OF STOOP AT A 4H:1V SLOPE TO PAD FINISHED GRADE.

| 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 | CHECKED BY | DATE | REV | DATE | DESCRIPTION | BY |
| BASE | TS | MJ | TELEPHONE | --- | --- | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | |
| GAS | RB | ML | MUN. FINAL CHECK | --- | --- | | |

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

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 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

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

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

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CRW ENGINEERING GROUP, LLC
 3540 ARCTIC BLVD, SUITE 300
 ANCHORAGE, ALASKA 99503
 PHONE: 907-562-3252
 FAX: 907-562-3252

STATE OF ALASKA
 49th
 Michael J. Leguineche
 CE-11006
 05/19/21
 REGISTERED PROFESSIONAL ENGINEER



MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY
GRADING PLAN

HORIZ SCALE: 1"=10'
 VERT SCALE: N/A
 DATE: 5/19/21
 GRID: SW1234-35
 PROJ. ID.: WW.00102

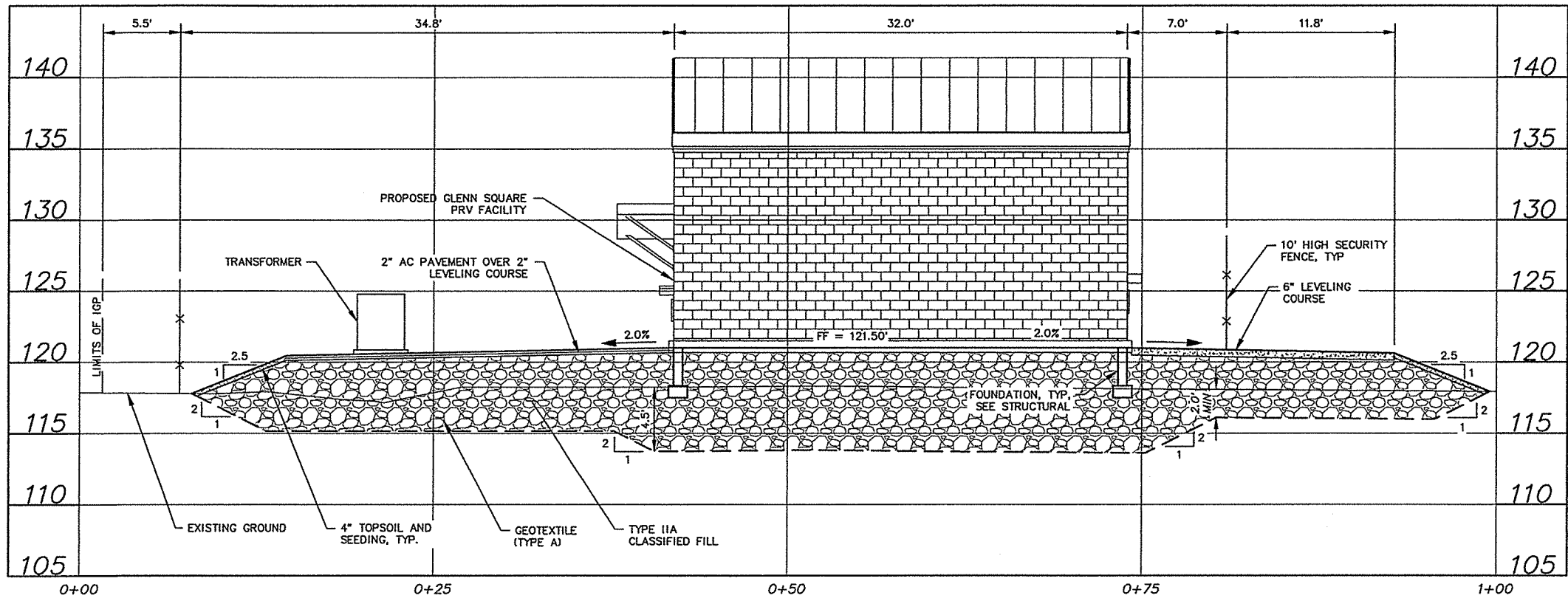
CONSULTANT SEAL SHEET C4 of C12

AWWU PLAN SET NO. 11131 SCHEDULE: A

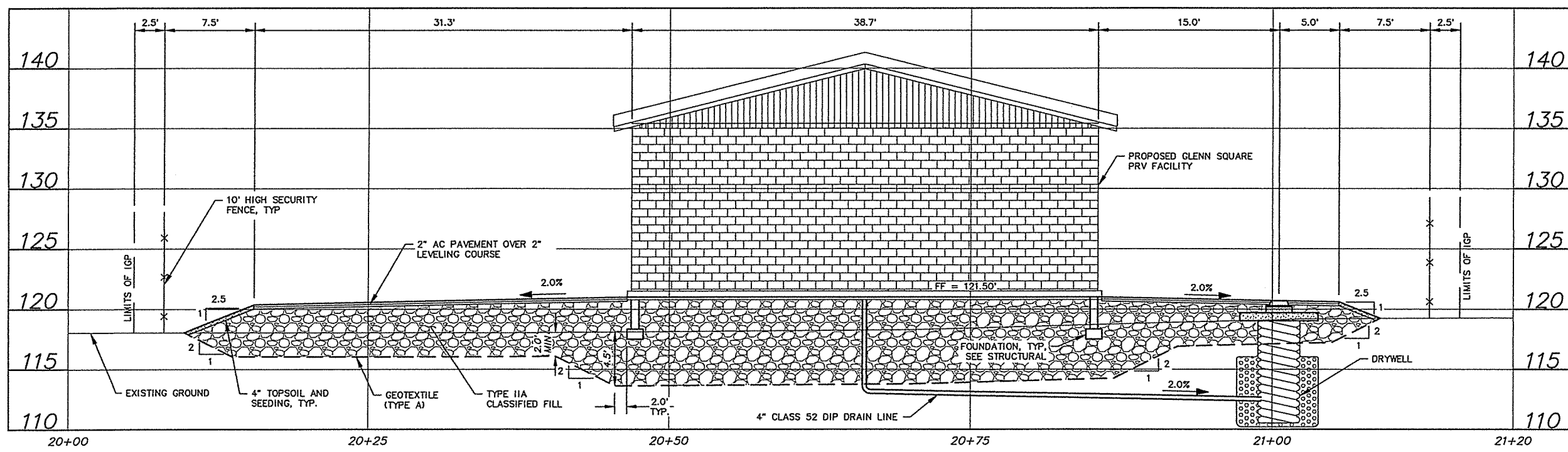
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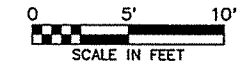
ACAD FILE: J:\JobsData\10337.00 Glenn Square PRV\00 CAD\01 Working Set\01 Civil\10337.00 Site Sections.dwg



B **GLENN SQUARE PRV FACILITY SECTION B**
SCALE: GRAPHIC



C **GLENN SQUARE PRV FACILITY SECTION C**
SCALE: GRAPHIC



| DATA | DRAWN BY | CHECKED BY | DATE | DESCRIPTION | BY |
|----------------|----------|------------|------------------|-------------|-----|
| BASE | TS | MJ | TELEPHONE | --- | --- |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ |
| PROFILE | --- | --- | CABLE TV | --- | --- |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- |
| STORM SEWER | TS | MJ | DESIGN | RB | ML |
| WATER | TS | MJ | QUANTITIES | RB | ML |
| GAS | RB | ML | MUR. FINAL CHECK | --- | --- |

| NO. | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |
| | | |
| | | |

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" = 1"

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

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CRW ENGINEERING GROUP LLC
3540 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 582-3332
FAC: 582-2626

CONSULTANT

STATE OF ALASKA
49/01
Michael J. Leguineche
CE-11008
05/19/21
REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY SITE SECTION VIEWS

HORIZ SCALE: 1"=5'
VERT SCALE: 1"=5'

DATE: 5/19/21 GRID: SW1234-35

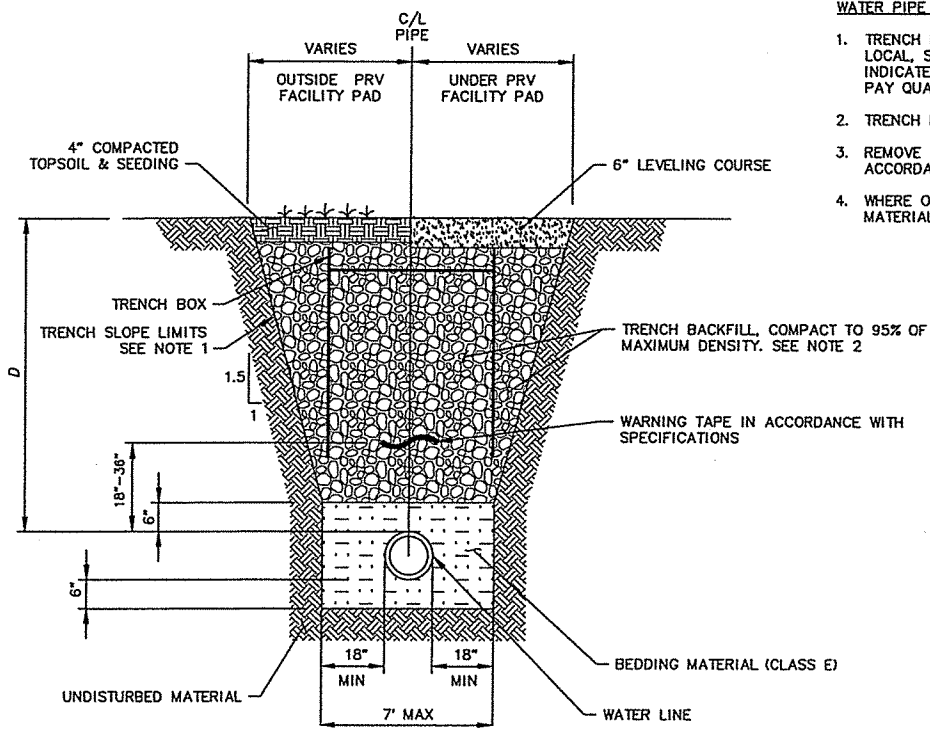
PROJ. ID.: WW.00102 SHEET C5 OF C12

AWWU PLAN SET NO. 11131

SCHEDULE: A

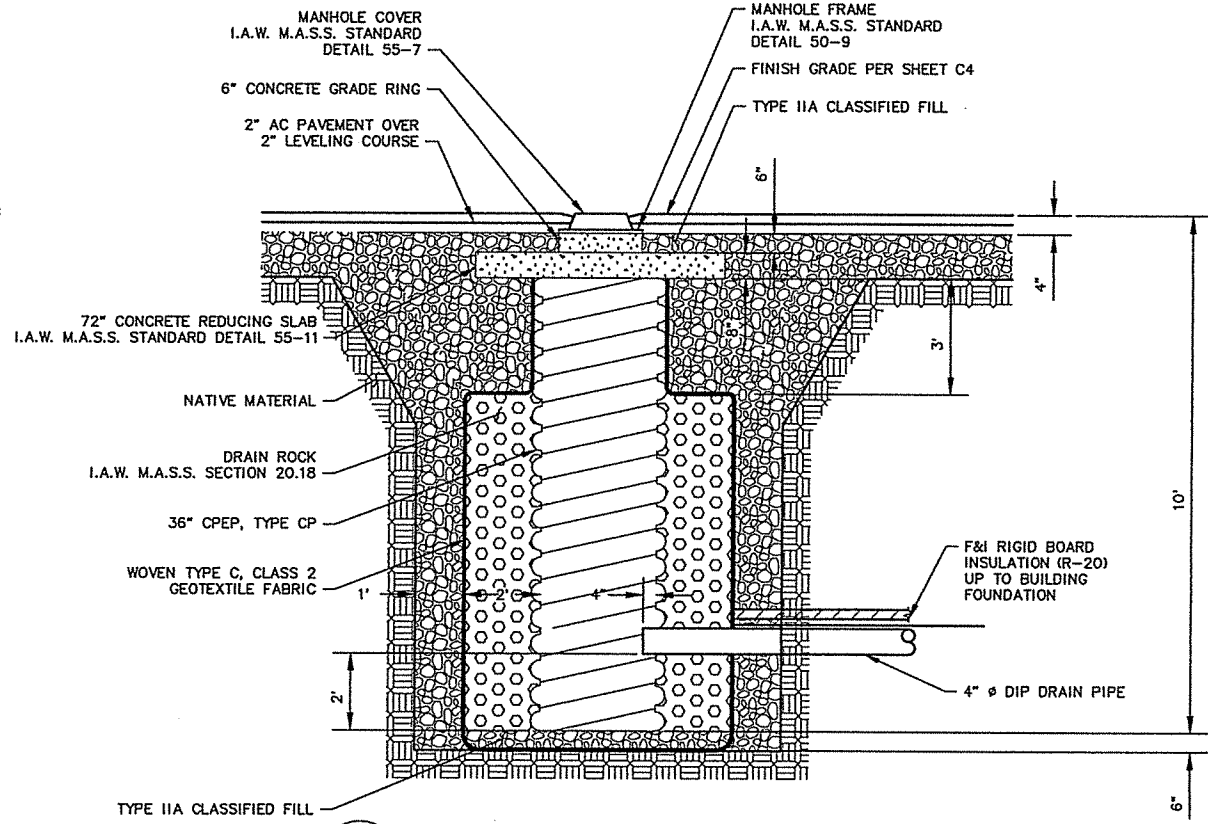
WATER PIPE TRENCH SECTIONS NOTES

1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED TRENCH WALL SLOPES AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATIONS ONLY.
2. TRENCH BACKFILL SHALL BE TYPE IIA CLASSIFIED FILL.
3. REMOVE AND DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.27.
4. WHERE OTHER UTILITIES ARE ENCOUNTERED, PROVIDE BEDDING MATERIAL AS SHOWN IN DETAIL 1.



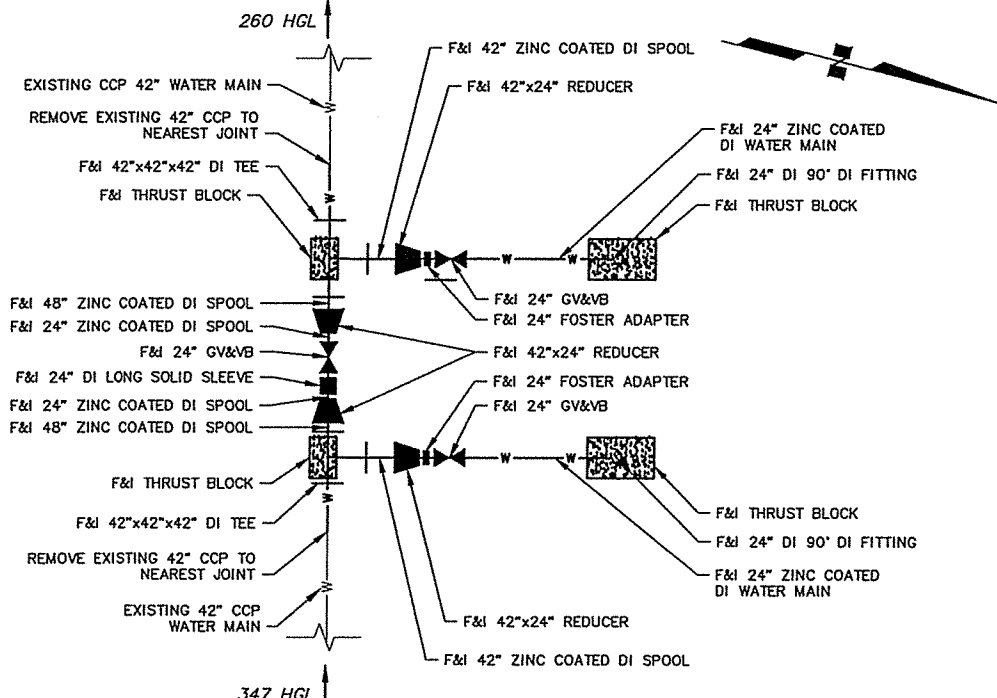
1 TYPICAL UTILITY TRENCH SECTION

SCALE: NTS



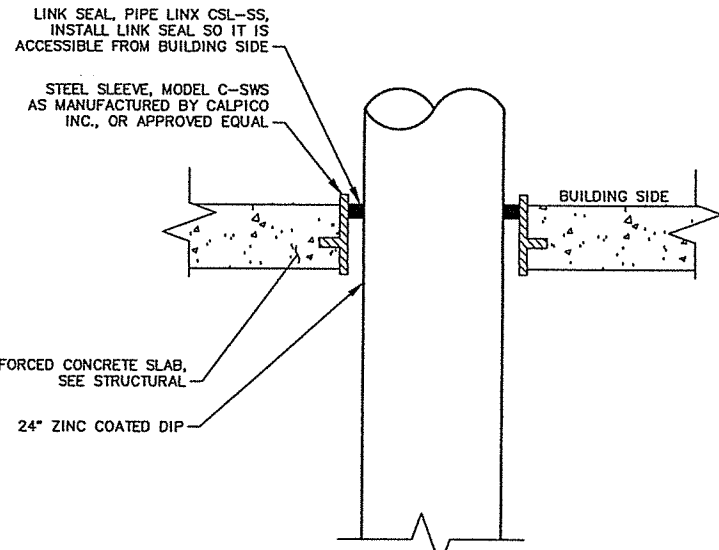
3 DRY WELL DETAIL

SCALE: NTS



2 WATER MAIN CONNECTION DETAIL

SCALE: NTS



4 WATER PIPE FLOOR PENETRATION

SCALE: NTS

VERIFY SCALE

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.

| DATA | DRAWN BY | CHECKED BY | DATE | DESCRIPTION |
|----------------|----------|------------|------|------------------|
| BASE | TS | MJ | | TELEPHONE |
| TOPOGRAPHY | TS | MJ | | ELECTRIC |
| PROFILE | | | | CABLE TV |
| SANITARY SEWER | TS | MJ | | TRAFFIC SIGNAL |
| STORM SEWER | TS | MJ | | DESIGN |
| WATER | TS | MJ | | QUANTITIES |
| GAS | RB | ML | | MUN. FINAL CHECK |

0" = 1"

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

RECORD DRAWING

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

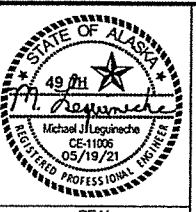
1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____ TITLE: _____
 DATE: _____

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

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

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MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY CIVIL DETAILS (1)

HORIZ SCALE: N/A
 VERT SCALE: N/A
 DATE: 5/19/21
 GRID: SW1234-35
 PROJ. ID.: WW.00102

CONSULTANT SEAL

SHEET C7 of C12

PLOT DATE: 5/19/2021 3:06 PM

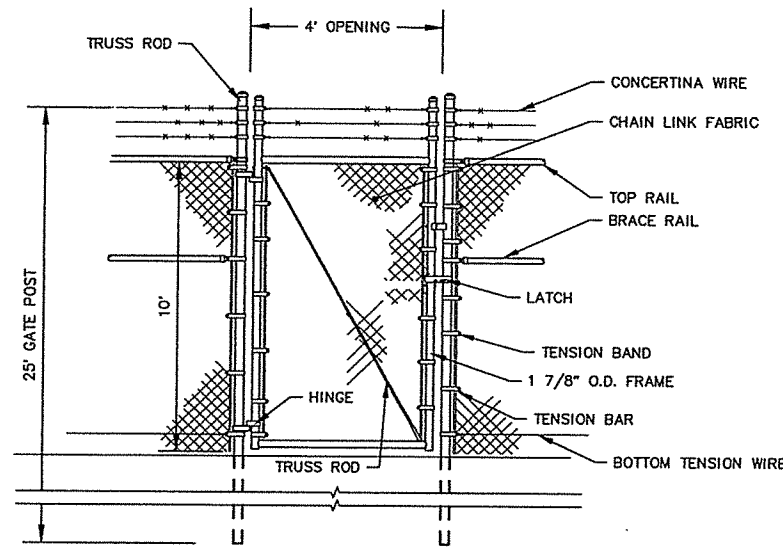
PLOT SCALE:

ACAD FILE: U:\JobsData\10337.00 Glenn Square PRV\00 CAD\01 Working Set\01 Civil\10337.00 Details.dwg

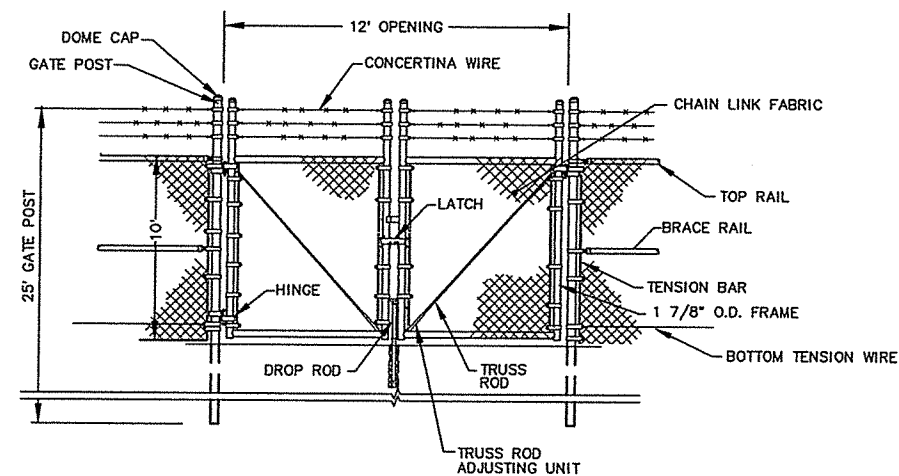
AWMU PLAN SET NO. 11131

SCHEDULE: A

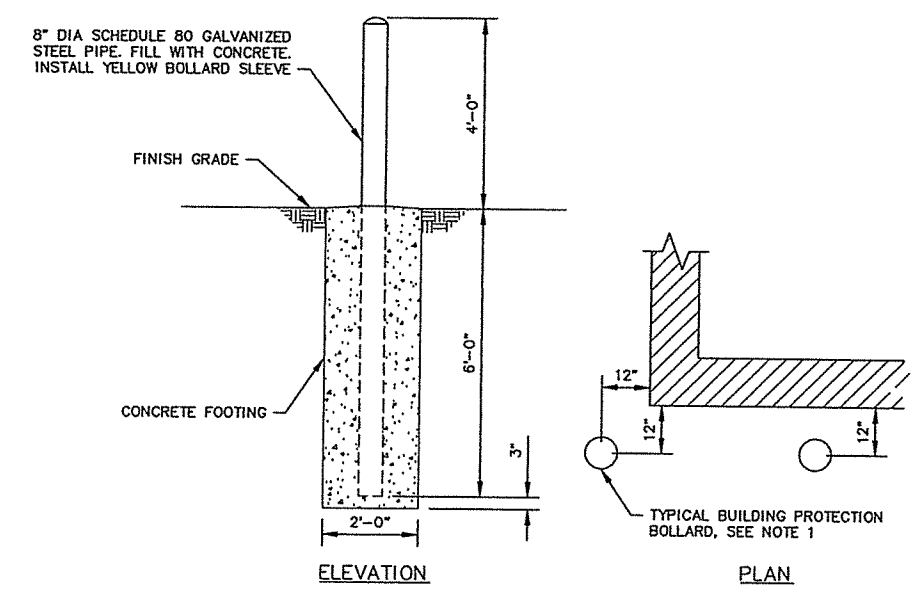
PLOT DATE: 5/18/2021 3:06 PM
PLOT SCALE:



1 **MAN GATE DETAILS**
SCALE: NTS

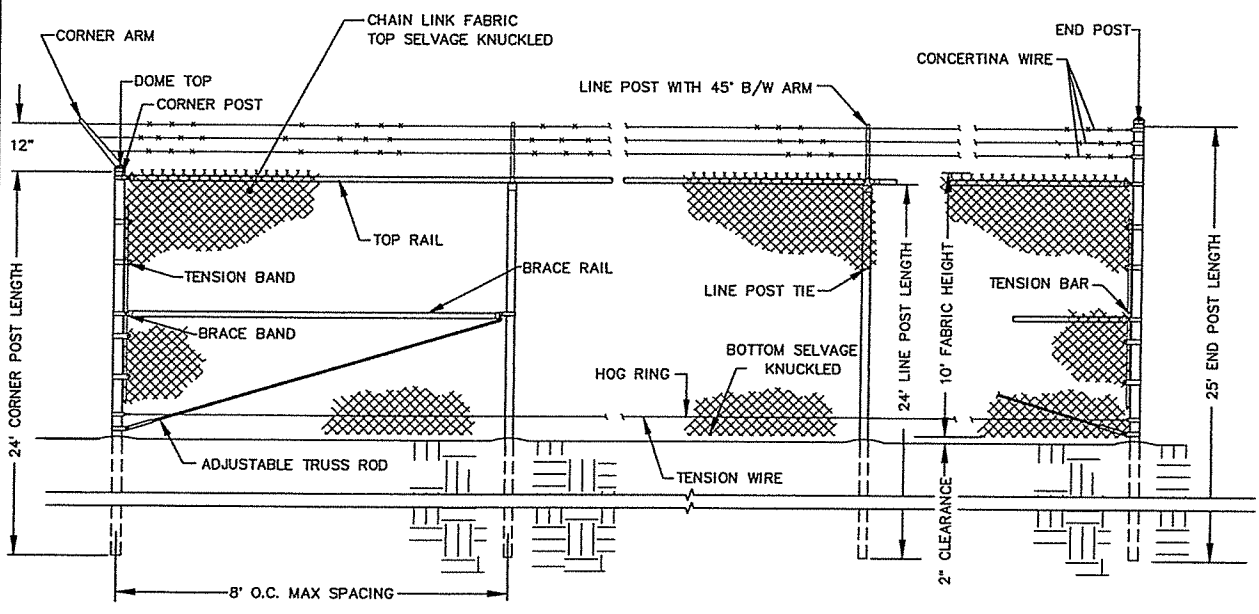


2 **VEHICLE GATE DETAILS**
SCALE: NTS

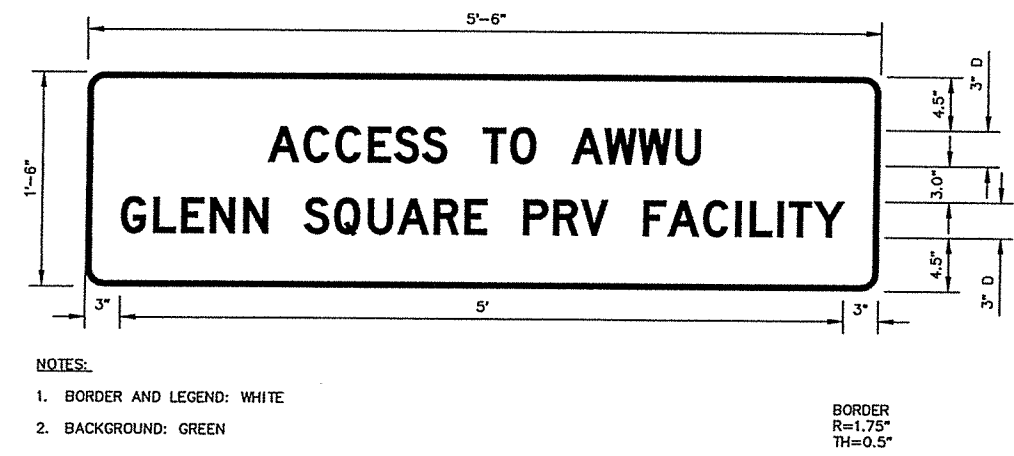


NOTES:
1. INSTALL BOLLARDS IN FRONT OF THE GLENN SQUARE PRV FACILITY PER THIS DETAIL AND AS SHOWN ON SHEET C1.

3 **BOLLARD DETAILS**
SCALE: NTS

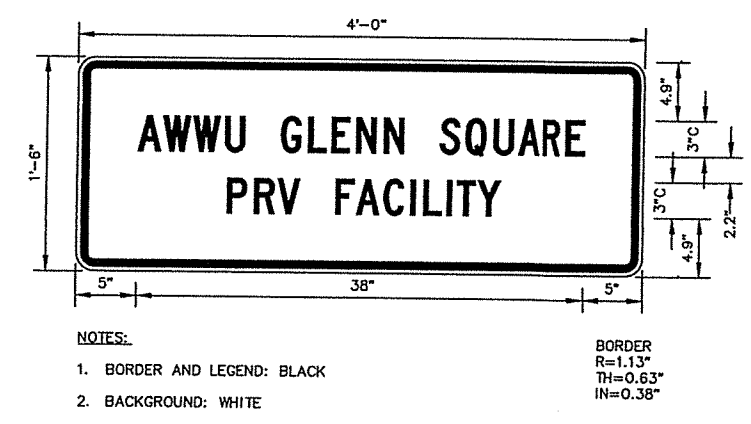


4 **FENCE DETAILS**
SCALE: NTS



NOTES:
1. BORDER AND LEGEND: WHITE
2. BACKGROUND: GREEN
BORDER R=1.75" TH=0.5"

5 **SIGN DETAIL 1**
SCALE: NTS



NOTES:
1. BORDER AND LEGEND: BLACK
2. BACKGROUND: WHITE
BORDER R=1.13" TH=0.63" IN=0.38"

6 **SIGN DETAIL 2**
SCALE: NTS

ACAD FILE: I:\Projects\10337.00 Glenn Square PRV\00 CAD\01 Working Set\01 Civil\10337.00 Details.dwg

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE | |
|----------------|-------------|---|-------------|-----------|------|---|----|-----------------|--|
| DATA | DESIGNED BY | DATA | DESIGNED BY | REV | DATE | DESCRIPTION | BY | | |
| BASE | TS | TELEPHONE | MJ | | | | | | |
| TOPOGRAPHY | TS | ELECTRIC | TS | | | | | | |
| PROFILE | | CABLE TV | | | | | | | |
| SANITARY SEWER | TS | TRAFFIC SIGNAL | | | | | | | |
| STORM SEWER | TS | DESIGN | RB | | | | | | |
| WATER | TS | QUANTITIES | RB | | | | | | |
| GAS | RB | MUN. FINAL CHECK | | | | | | | |
| PLAN CHECK | | | | REVISIONS | | | | | |

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

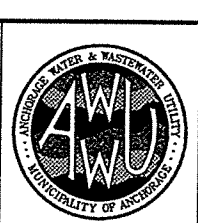
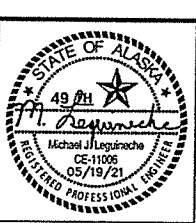
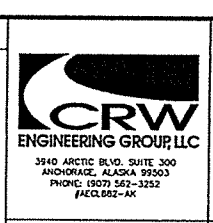
1. DATA PROVIDED BY: This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____ TITLE: _____
DATE: _____

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

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

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY CIVIL DETAILS (2)

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: 5/19/21
GRID: SW234-35
PROJ. ID.: WW.00102

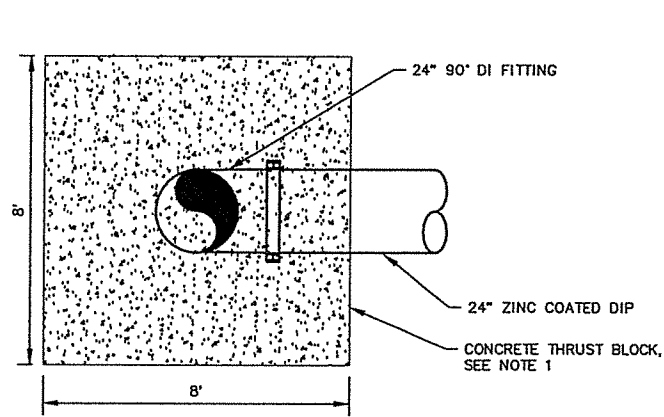
C8
C12

AWWU PLAN SET NO. 11131

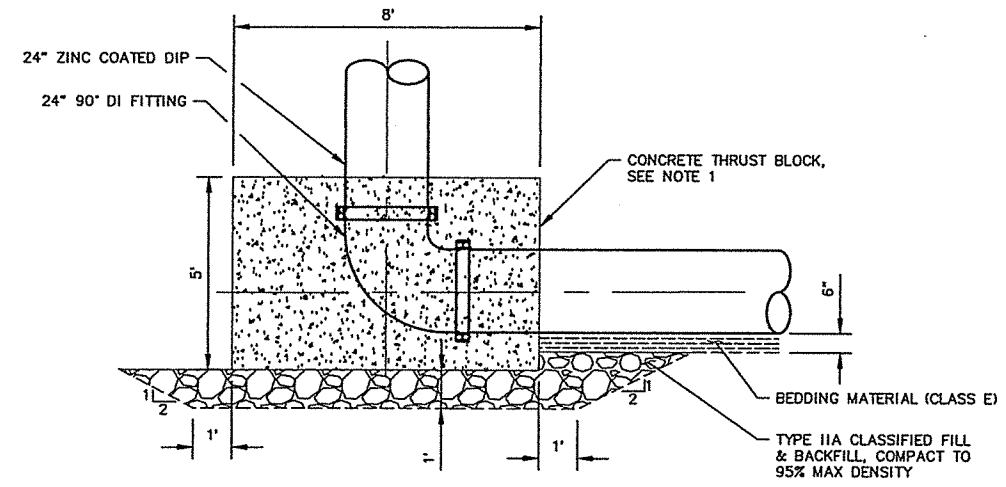
SCHEDULE: A

THRUST BLOCK NOTES

1. ALL CONCRETE WORK SHALL CONFORM WITH THE SPECIFICATIONS.
2. THRUST BLOCK CONCRETE SHALL REACH MINIMUM 75% OF DESIGN COMPRESSIVE STRENGTH BEFORE PLACED INTO SERVICE.

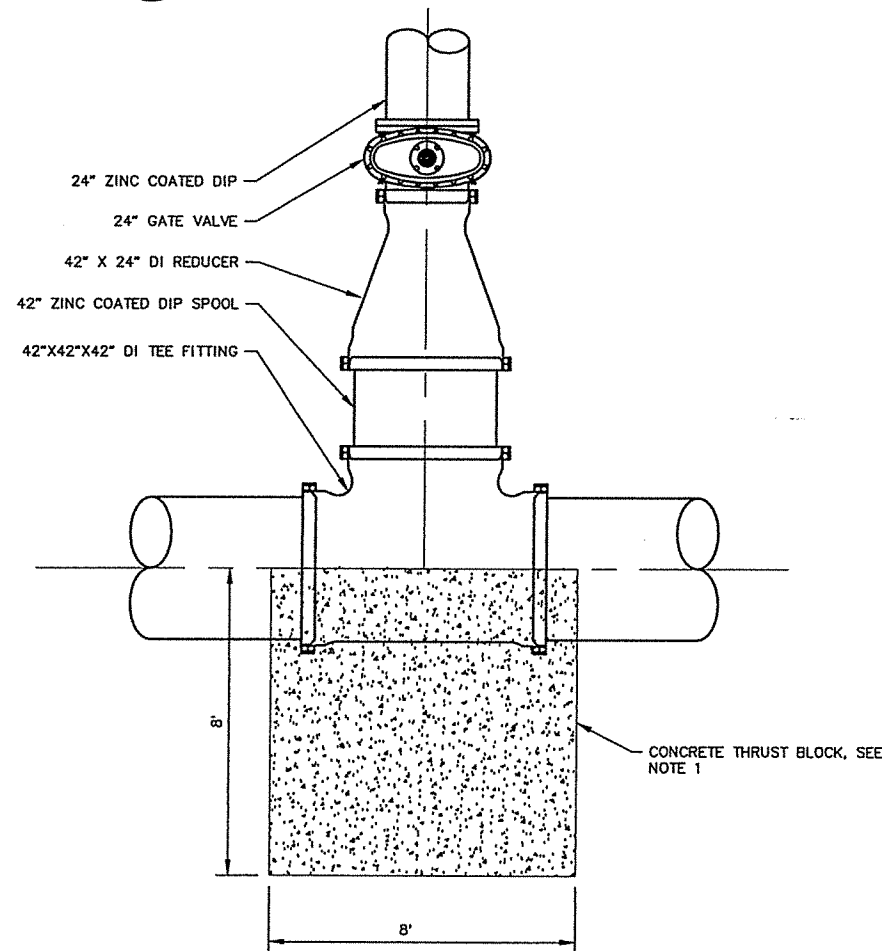


PLAN

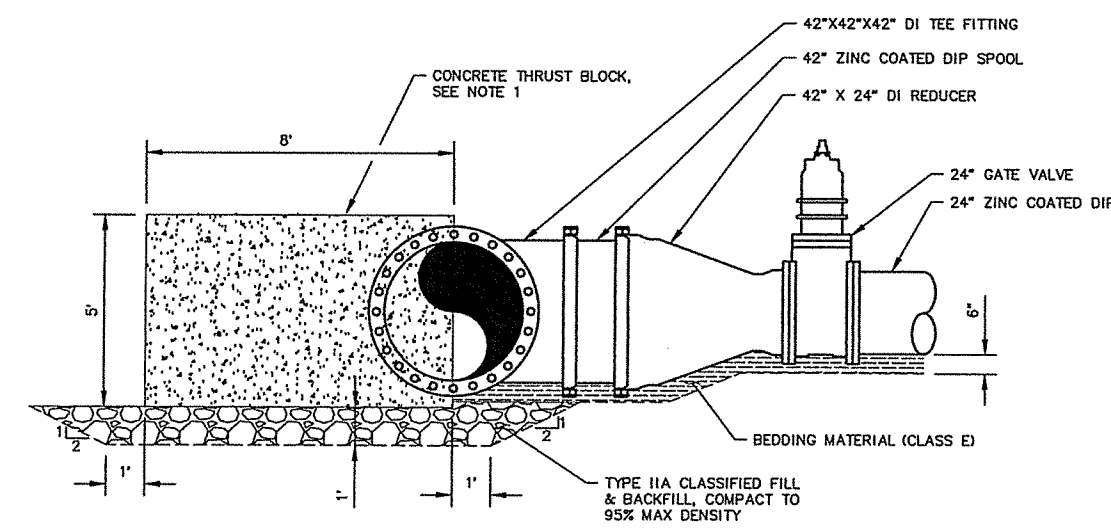


SECTION

1 **90 DEGREE DI FITTING THRUST BLOCK DETAIL**
SCALE: NTS



PLAN



SECTION

2 **DI TEE FITTING THRUST BLOCK DETAIL**
SCALE: NTS

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | 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 |
| BASE | TS | MJ | TELEPHONE | --- | --- | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | --- | --- | | | | |
| PLAN CHECK | | | | | REVISIONS | | | | |

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

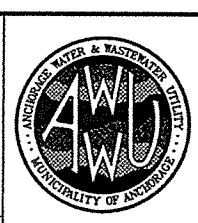
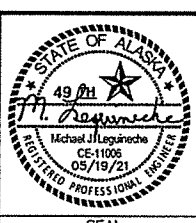
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MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY CIVIL DETAILS (3)

HORIZ SCALE: N/A
 VERT SCALE: N/A
 DATE: 5/19/21
 GRID: SW1234-35
 PROJ. ID.: WW.00102

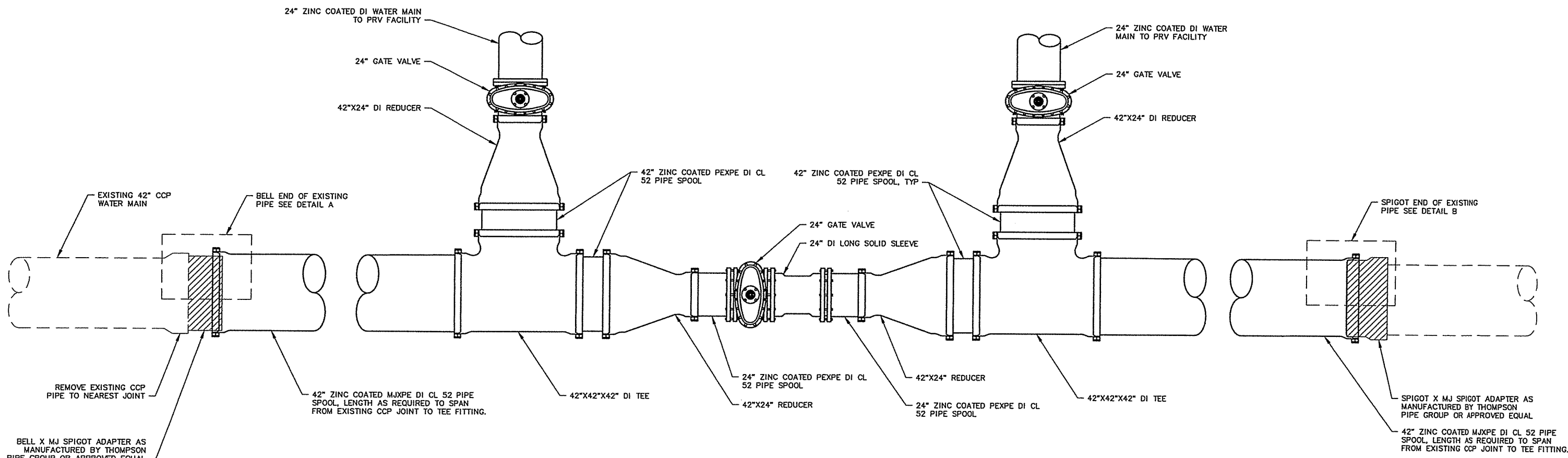
CONSULTANT SEAL SHEET C9 of C12

PLOT DATE: 5/18/2021 3:08 PM
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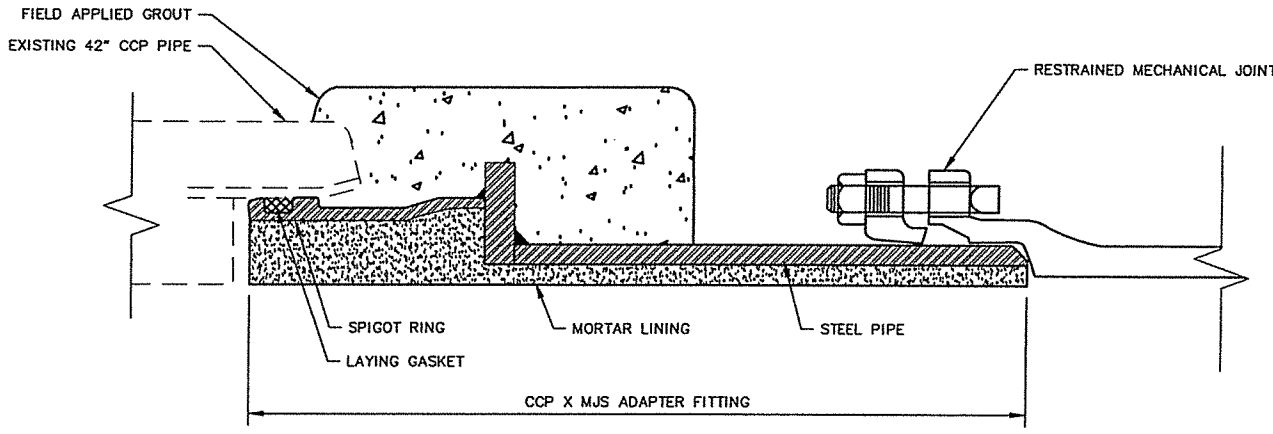
AWWU PLAN SET NO. 11131
 SCHEDULE: A

PLOT DATE: 5/19/2021 3:06 PM
PLOT SCALE:

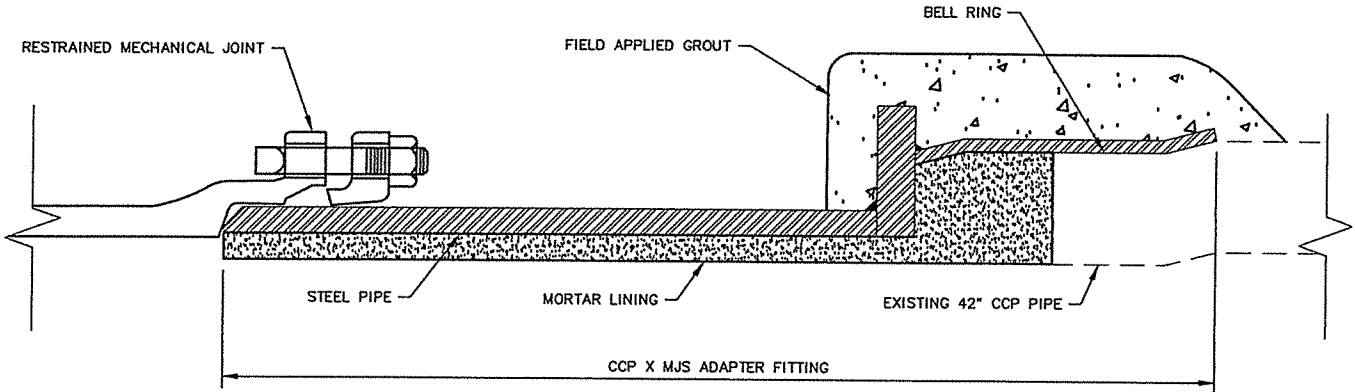
AWWU PLAN SET NO. 11131



1 **CCP TO DIP CONECTION DETAIL**
SCALE: NTS



A **BELL END CONNECTION DETAIL**
SCALE: NTS



B **SPIGOT END CONNECTION DETAIL**
SCALE: NTS

ACAD FILE: J:\Users\j10337\OneDrive\Work\01_Civil\10337\00_Details.dwg

SCHEDULE: A

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE | |
|----------------|-----|---|------------------|---------|-----------|---|----|-----------------|-------------|
| DATA | BY | DATE | DESCRIPTION | BY | DATE | DESCRIPTION | BY | DATE | DESCRIPTION |
| BASE | TS | MJ | TELEPHONE | TS | MJ | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | --- | --- | | | | |
| PLAN CHECK | | | | | REVISIONS | | | | |

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

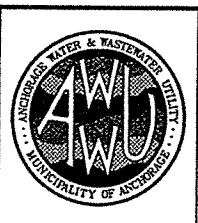
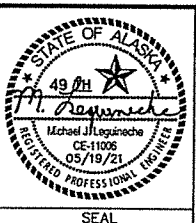
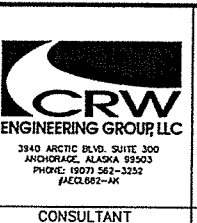
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CONTRACTOR: _____ TITLE: _____
DATE: _____

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COMPANY: _____
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY CIVIL DETAILS (4)

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: 5/19/21
GRID: SW1234-35
PROJ. ID.: WW.00102

CONSULTANT

SEAL

C10
SHEET
C12

PROJECT DESCRIPTION AND SEQUENCING:

PRV STATION 9 CHRYSLER VAULT WAS CONSTRUCTED IN 1971 AND IS LOCATED NORTH OF EAST 5TH AVENUE WITHIN A 30-FOOT BY 50-FOOT WATER EASEMENT. THE EXISTING VAULT UTILIZES TWO PRVS. DUE TO THE PLANNED CONSTRUCTION OF GLENN SQUARE PRV FACILITY, PRV STATION 9 WILL BE ABANDONED AND REPLACED WITH A 24" DI PIPE SPOOL.

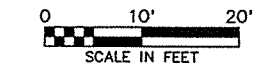
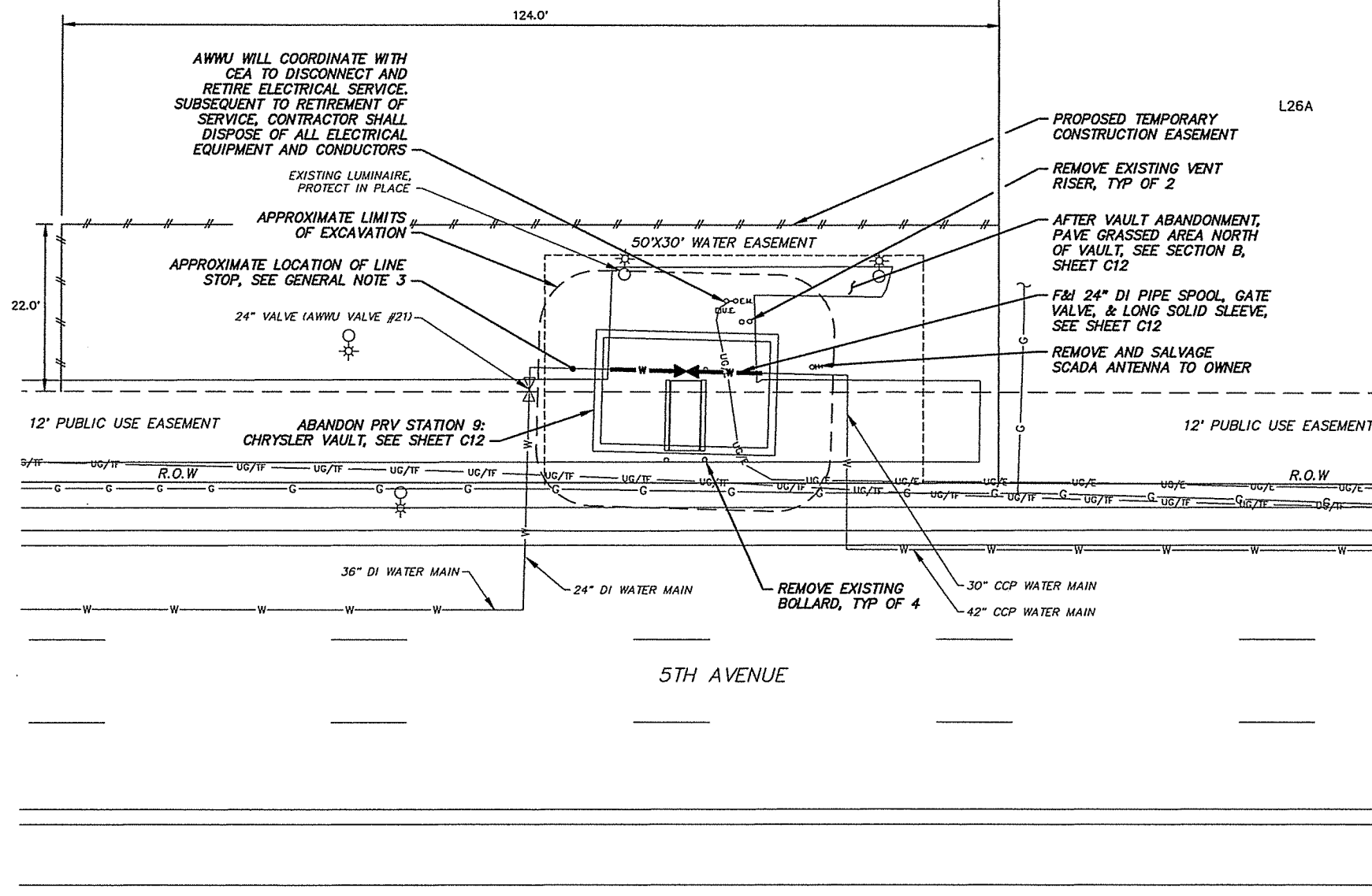
SEQUENCING:

1. NEW GLENN SQUARE PRV FACILITY MUST BE ON-LINE AND OPERATIONAL PRIOR TO ABANDONING PRV STATION 9.
2. ABANDONMENT OF PRV STATION 9 SHALL NOT OCCUR IN JULY DURING PEAK WATER DEMAND PERIODS. COORDINATE MAY TO AUGUST TIMING WITH AWWU.

GENERAL NOTES:

1. THE LOCATION OF EXISTING FEATURES AND UTILITIES WERE NOT SURVEYED AND ARE APPROXIMATE AS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE HORIZONTAL AND VERTICAL LOCATION OF ALL FEATURES AND UTILITIES.
2. IF ANY PORTION OF AC PAVEMENT IS DISTURBED WITHIN A LANE, REMOVE AND REPLACE AC PAVEMENT OVER ENTIRE LANE WIDTH. SKEW ALL ROAD ASPHALT JOINTS PER MASS SECTION 40.06.
3. CONTRACTOR SHALL HAVE LINE STOP MATERIALS/EQUIPMENT ON-SITE AND READY TO INSTALL IN THE EVENT THAT AWWU VALVE 21 DOES NOT PROPERLY FUNCTION AS NECESSARY TO ISOLATE WATER MAIN.

ALASKA INDUSTRIAL SUBD.
Block 6
ANCHORAGE CHRYSLER



PLOT DATE: 5/19/2021 3:07 PM

PLOT SCALE:

ACAD FILE: J:\asobota\10337.00 Glenn Square PRV\00 CADD\01 Working Set\01 Civil\10337.00 Site Plan - Chrysler Vault.dwg

AWWU PLAN SET NO. 11131

SCHEDULE: B

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | 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 |
| BASE | TS | MJ | TELEPHONE | --- | --- | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | --- | --- | | | | |
| PLAN CHECK | | | | | 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: _____ 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.

DATA TRANSFER CHECKED BY: _____

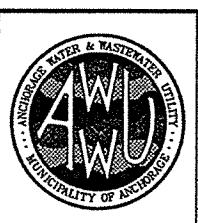
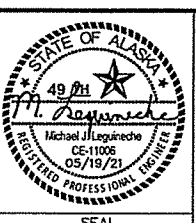
COMPANY: _____

BY: _____ TITLE: _____

DATE: _____

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

**PRV STATION 9 CHRYSLER VAULT
SITE PLAN**

HORIZ SCALE: 1"=10'
VERT SCALE: N/A

DATE: 5/19/21

GRID: SW1234-35

PROJ. ID.: WW.00102

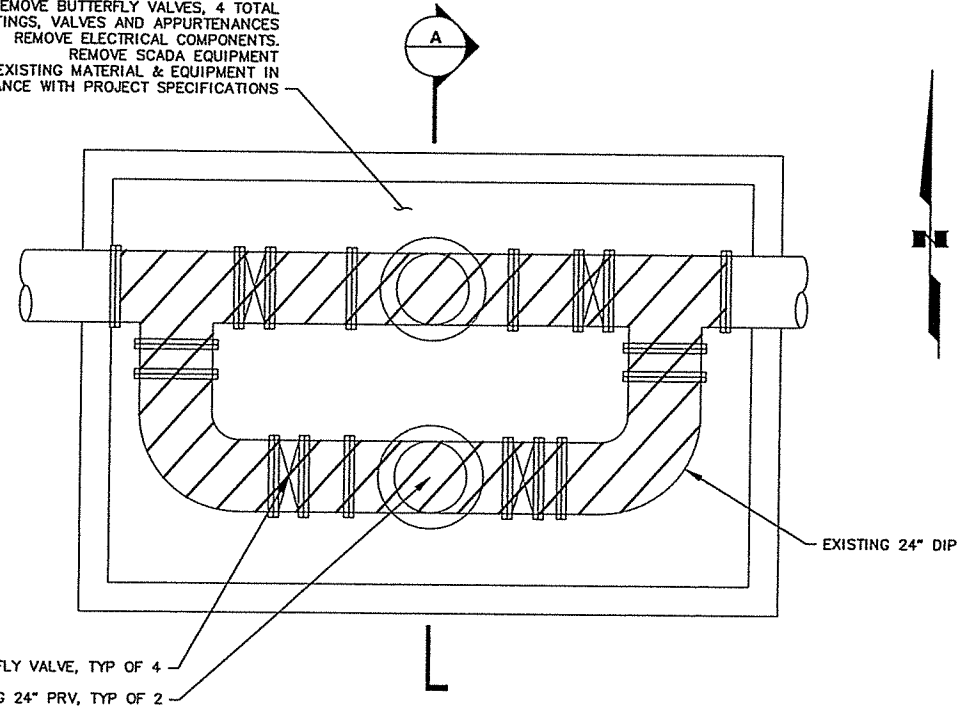
SHEET C11 OF C12

PLOT DATE: 5/18/2021 3:07 PM

PLOT SCALE:

ACAD FILE: F:\webData\10337.00 Glenn Square PRV\00 CADD\01 Working Set\01 Civil\10337.00 Chrysler Vault - Plan And Section.dwg

ABANDON CONCRETE PRV STATION
 REMOVE PRV VALVES, 2 TOTAL
 REMOVE TEES, 2 TOTAL
 REMOVE BUTTERFLY VALVES, 4 TOTAL
 REMOVE PIPING, FITTINGS, VALVES AND APPURTENANCES
 REMOVE ELECTRICAL COMPONENTS
 REMOVE SCADA EQUIPMENT
 SALVAGE EXISTING MATERIAL & EQUIPMENT IN ACCORDANCE WITH PROJECT SPECIFICATIONS

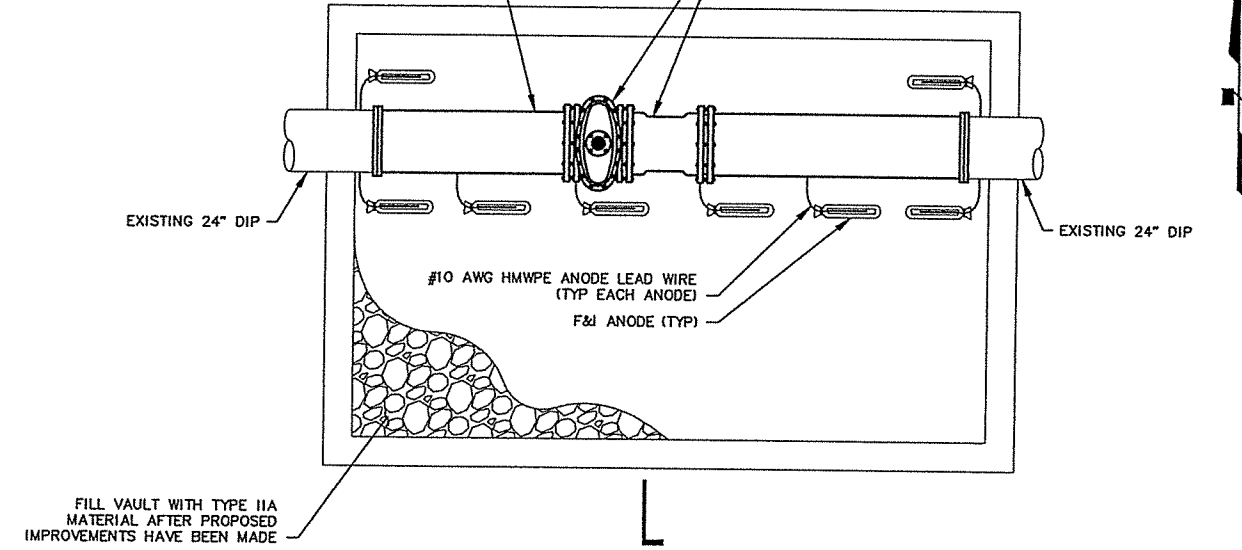


1 PRV STATION 9 DEMOLITION PLAN
 SCALE: NTS

24" ZINC COATED CL-52 V-BI0
 FILM WRAPPED DI, TYP

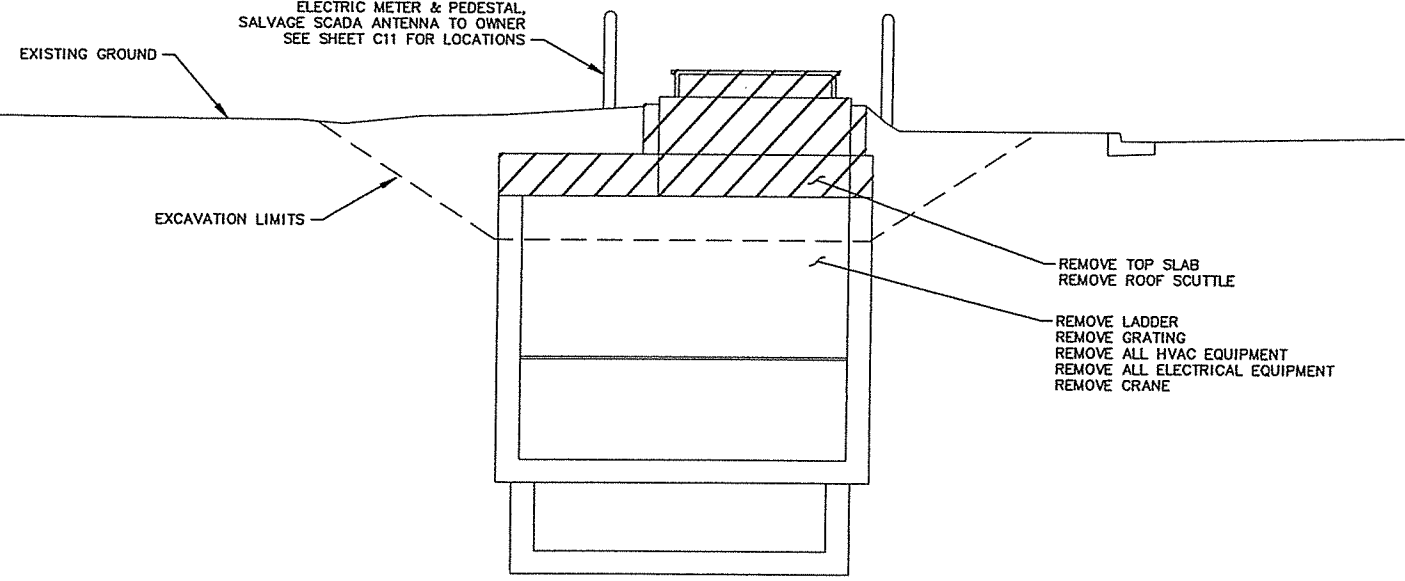
24" MJMJ GATE VALVE

24" DI LONG SOLID SLEEVE

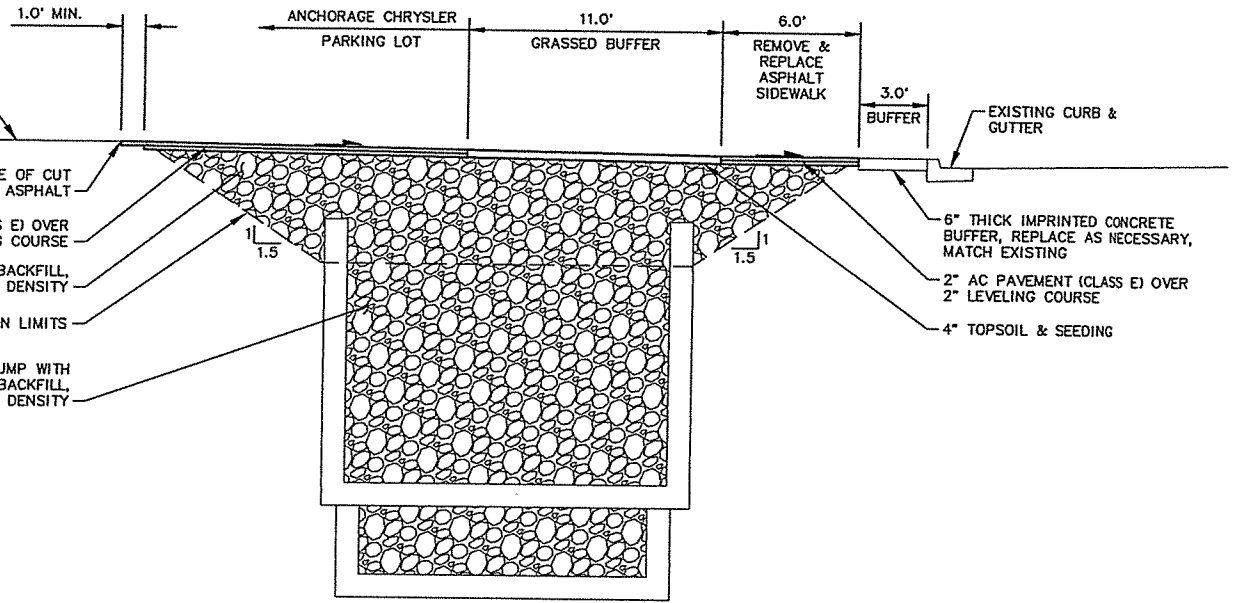


2 PRV STATION 9 PROPOSED IMPROVEMENTS
 SCALE: NTS

REMOVE BOLLARDS, VENT RISERS, ELECTRIC METER & PEDESTAL, SALVAGE SCADA ANTENNA TO OWNER SEE SHEET C11 FOR LOCATIONS



A PRV STATION 9 DEMOLITION SECTION
 SCALE: NTS



B PRV STATION 9 PROPOSED SECTION
 SCALE: NTS

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE | |
|----------------|---------|---|------------------|---------|------|---|----|-----------------|-------------|
| DATA | DRWN BY | CHKD BY | DATE | REV | DATE | DESCRIPTION | BY | DATE | DESCRIPTION |
| BASE | TS | MJ | TELEPHONE | --- | --- | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | | | |
| STORM SEWER | TS | MJ | DESIGN | RB | ML | | | | |
| WATER | TS | MJ | QUANTITIES | RB | ML | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | --- | --- | | | | |
| PLAN CHECK | | | | | | REVISIONS | | | |

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

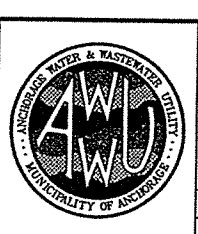
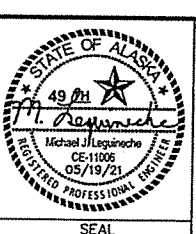
1. DATA PROVIDED BY: _____
 This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

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

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MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

**PRV STATION 9 CHRYSLER VAULT
 PLAN & SECTION**

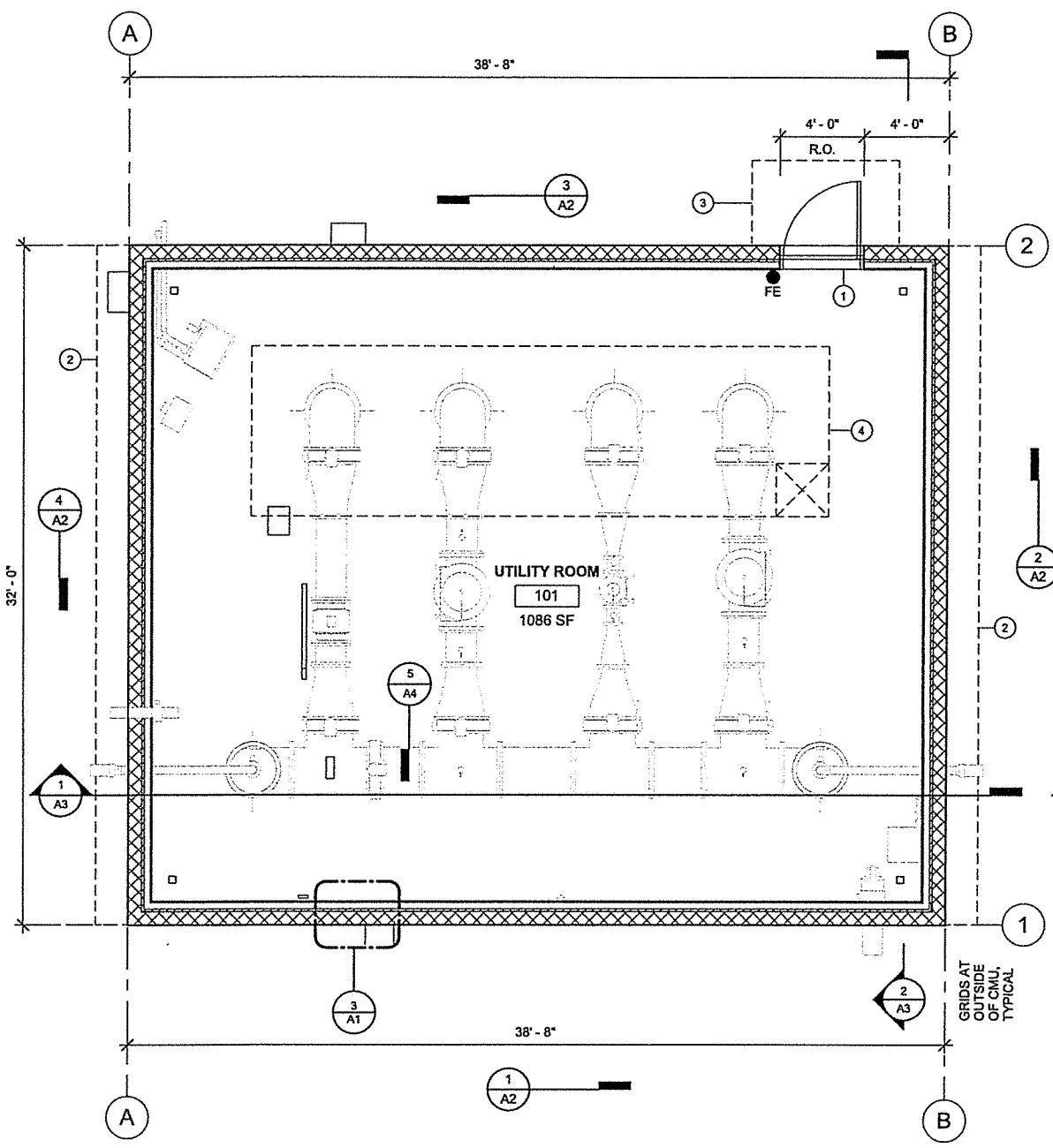
HORIZ SCALE: N/A
 VERT SCALE: N/A
 DATE: 5/19/21
 GRID: SW234-35
 PROJ. ID: WW.00102

C12 of C12
 SHEET

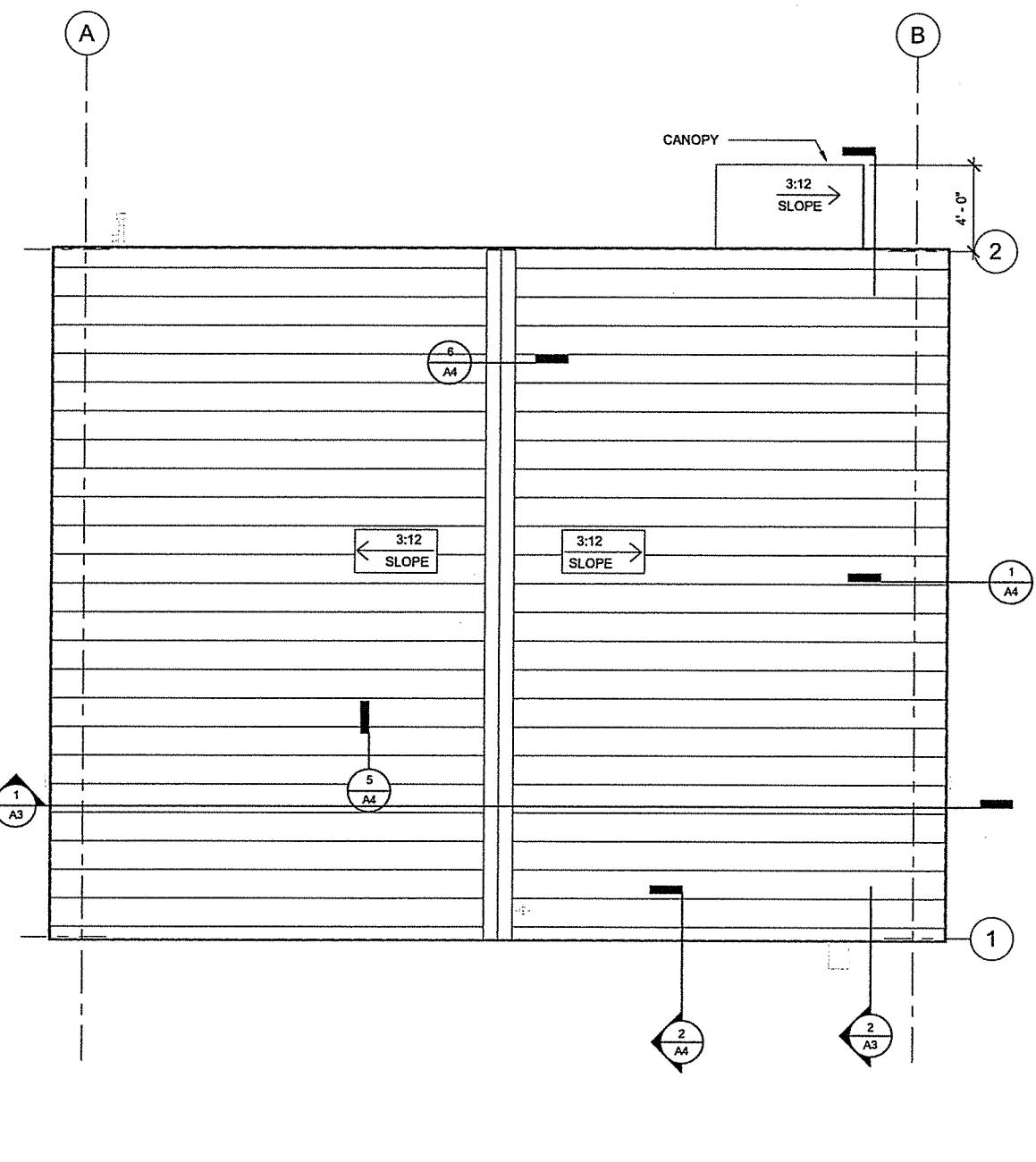
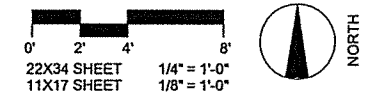
AWWU PLAN SET NO. 11131

SCHEDULE: B

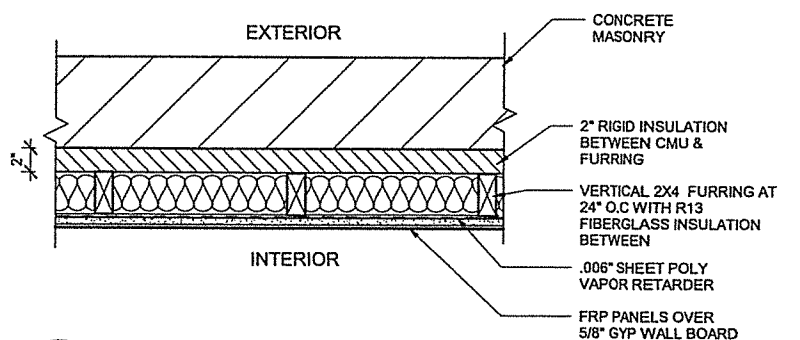
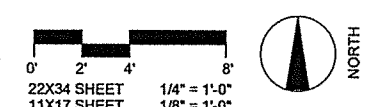
5/19/2021 5:16:33 PM



1 FLOOR PLAN
A1 1/4" = 1'-0"



2 ROOF PLAN
A1 1/4" = 1'-0"



3 TYPICAL EXTERIOR WALL
A1 1 1/2" = 1'-0"

CODE SUMMARY

WATER VALVE BUILDING
OCCUPANCY GROUP U UTILITY LOW HAZARD WATER DISTRIBUTION SHED (IBC 312)

CONSTRUCTION TYPE: TYPE V-B (IBC 602.5)

MINIMUM FIRE SEPARATION = 10' CLEAR WITHOUT FIRE RESISTIVE EXTERIOR WALL (IBC T 602)

FIRE SEPARATION DISTANCE = BUILDING FACE TO ONE OF FOLLOWING; LOT LINE, CENTER OF PUBLIC WAY OR IMAGINARY LINE BETWEEN 2 BUILDINGS ON SAME PROPERTY (IBC 202)

ALLOWABLE BUILDING AREA: U of VB = 5,500 SF. (IBC T 506.2)
PROPOSED BUILDING = 1086 SF = ok less

1086/300 = 4 OCCUPANTS (IBC T 1004.5)

SPACES WITH ONE EXIT: U = 75 OCCUPANTS MAX (IBC T 1006.2.1) = ok Less

ACCESSIBILITY:(ADA): EQUIPMENT SPACES NOT REQUIRED ACCESSIBLE (IBC 1103.2.9)

FOAM PLASTIC INSULATION SHALL BE SEPARATED FROM INTERIOR OF BUILDING BY THERMAL BARRIER OF GYP BOARD (IBC 2603.4)

● FE FIRE EXTINGUISHERS DRY CHEMICAL, WITH WALL HANGAR 2 - A : 10 - B : C (IBC 906)

SHEET NOTES

- ① 3'-8" WIDE X 7' HIGH FIBERGLASS DOOR AND FRAME; REFER 3/A4
- ② ROOF OVERHANG ABOVE
- ③ CANOPY ABOVE
- ④ FOUNDATION SLAB/ SINK REF MECHANICAL & STRUCTURAL

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE | |
|----------------|----------|---|------------------|---------|------|---|----|-----------------|-------------|
| DATA | DRAWN BY | CHECKED BY | DATE | REV | DATE | DESCRIPTION | BY | DATE | DESCRIPTION |
| BASE | TS | MJ | TELEPHONE | --- | --- | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | --- | --- | CABLE TV | --- | --- | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- | --- | | | | |
| STORM SEWER | TS | MJ | DESIGN | ABW | JEM | | | | |
| WATER | TS | MJ | QUANTITIES | ABW | JEM | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | --- | --- | | | | |

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

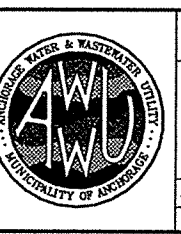
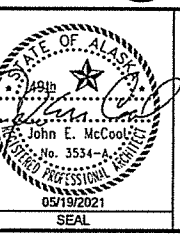
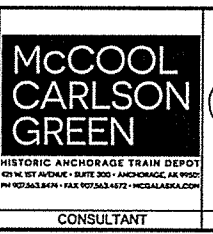
1. DATA PROVIDED BY: _____
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____
BY: _____ TITLE: _____
DATE: _____

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: _____
COMPANY: _____
BY: _____ TITLE: _____
DATE: _____

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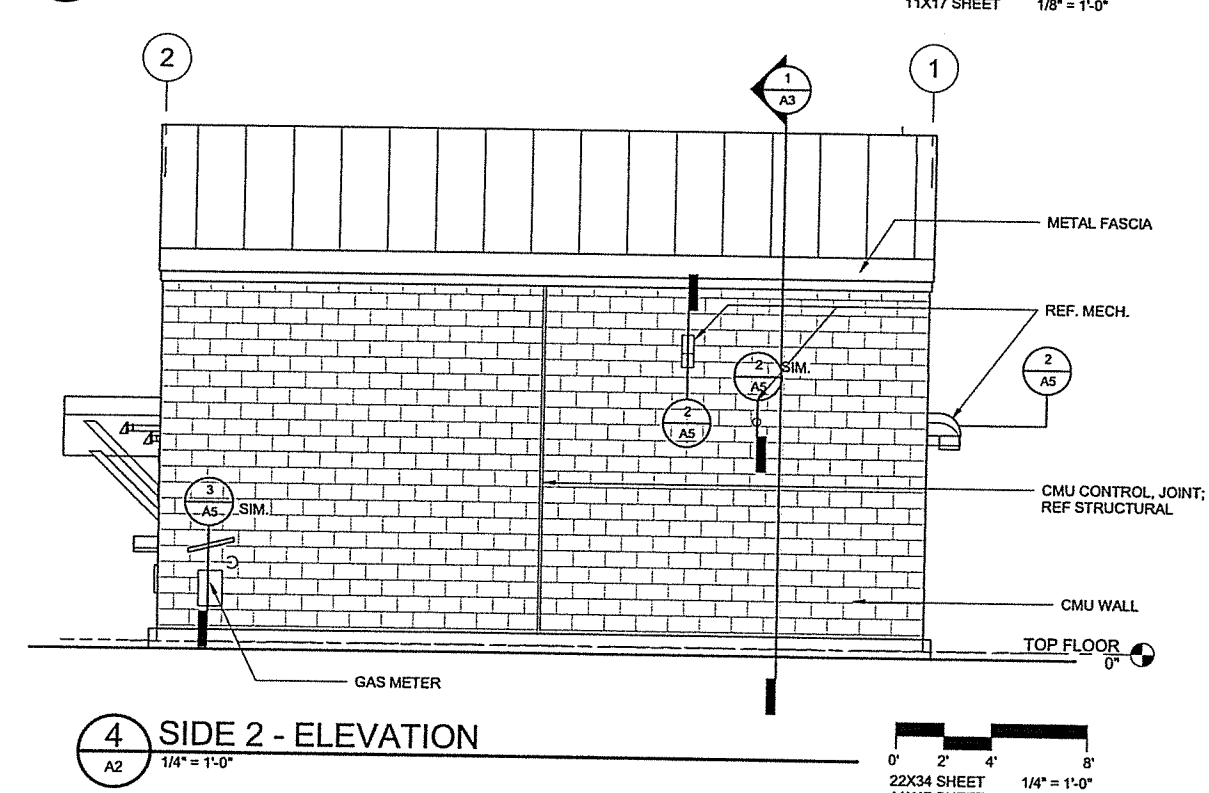
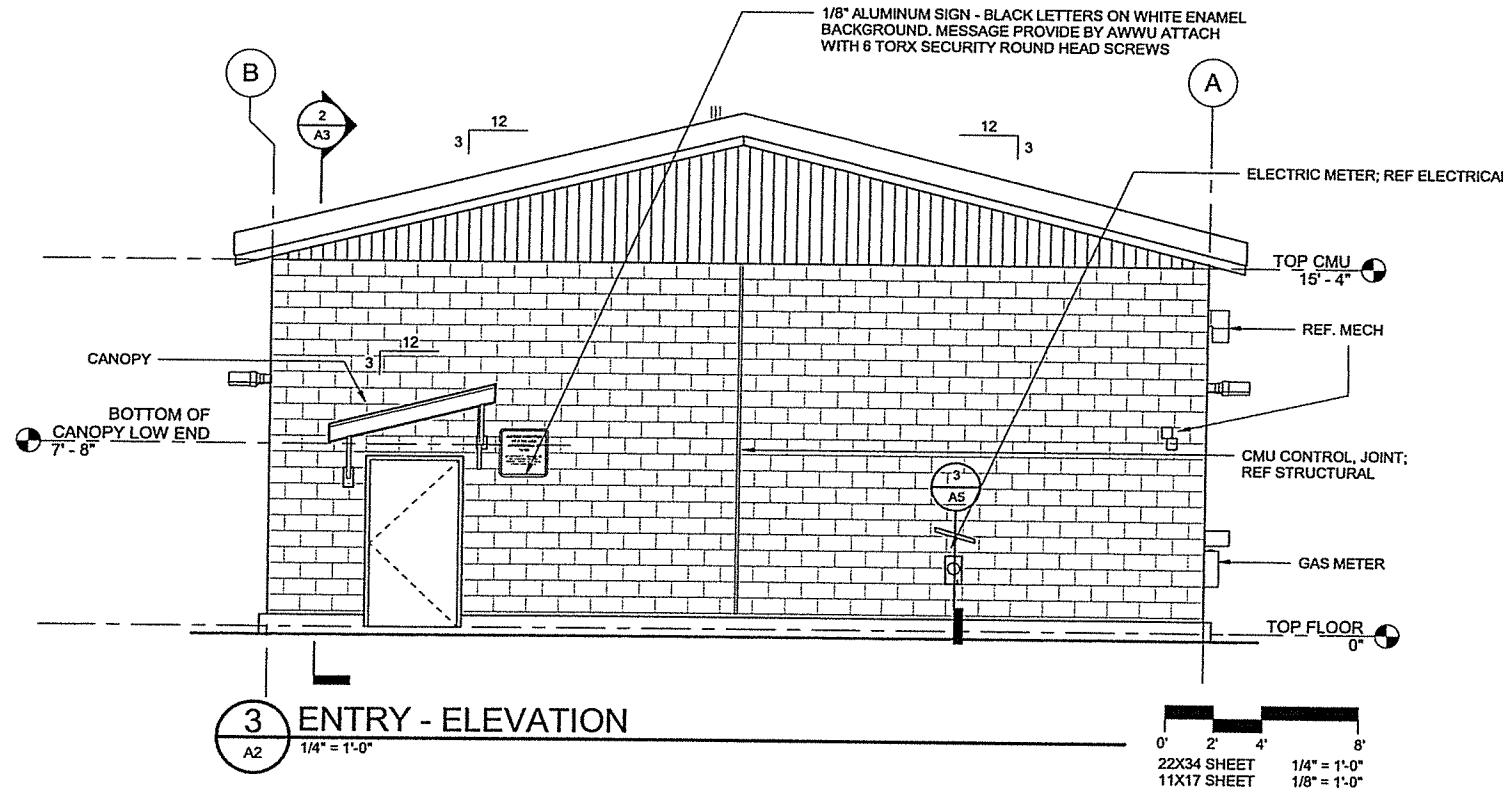
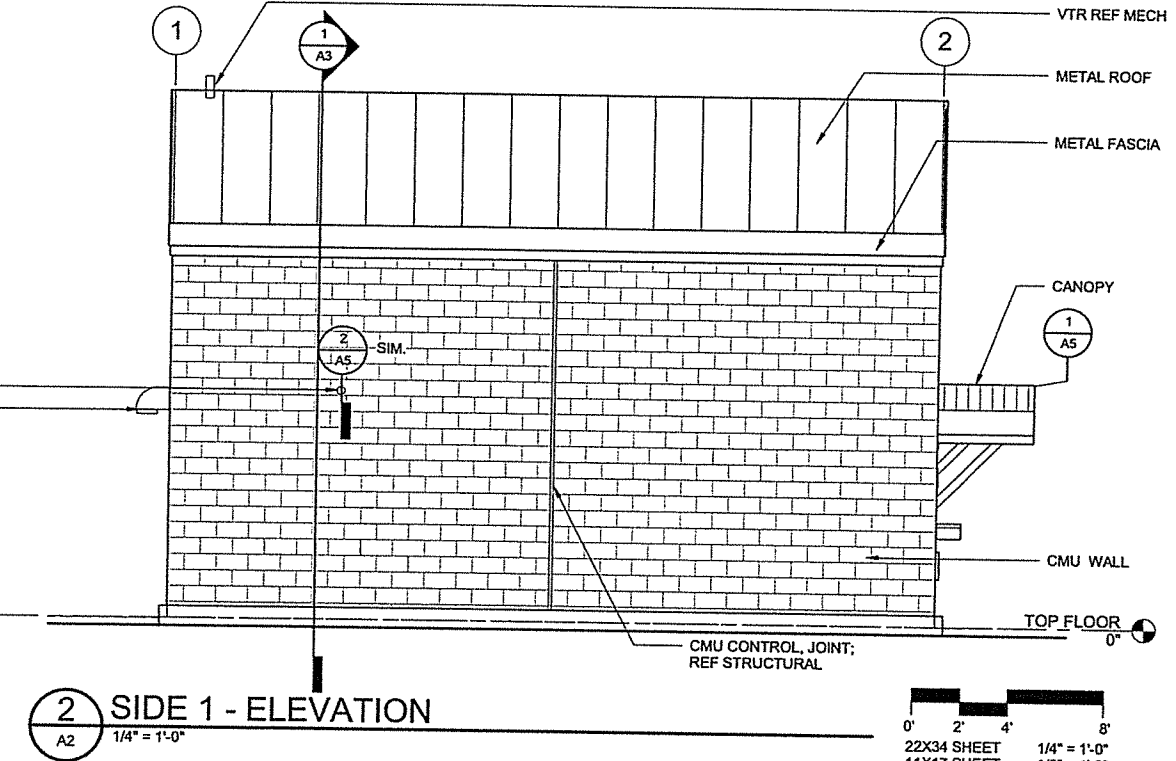
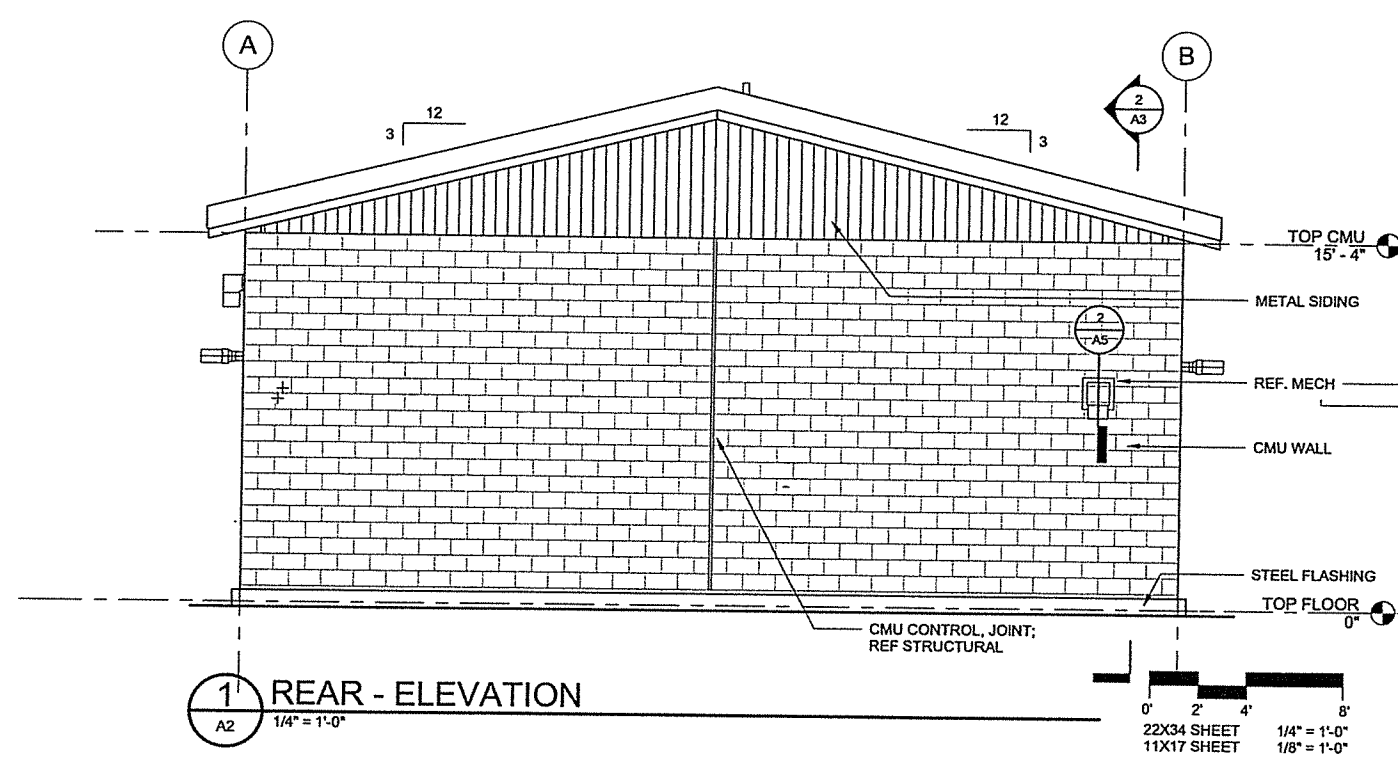
GLENN SQUARE PRV FACILITY

ARCHITECTURAL FLOOR PLAN & CODE SUMMARY

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: 05/19/2021
GRID: _____
PROJ. ID.: WW.00102

CONSULTANT
SEAL
2020026

SHEET A1 of A5



| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE HORIZ SCALE: N/A VERT SCALE: N/A | |
|----------------|----------|---|------------------|----------|------------|---|------|--|----|
| DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
| BASE | TS | MJ | TELEPHONE | TS | MJ | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | | | CABLE TV | | | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | | | | | | |
| STORM SEWER | TS | MJ | DESIGN | ABW | JEM | | | | |
| WATER | TS | MJ | QUANTITIES | ABW | JEM | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | | | | | | |
| PLAN CHECK | | | | | | | | | |
| REVISIONS | | | | | | | | | |

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

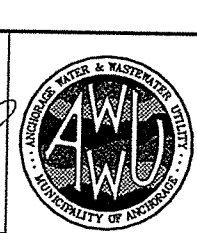
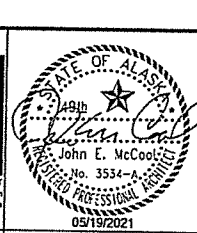
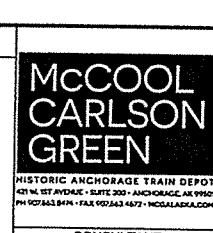
1. DATA PROVIDED BY: This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
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 BY: _____ DATE: _____

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

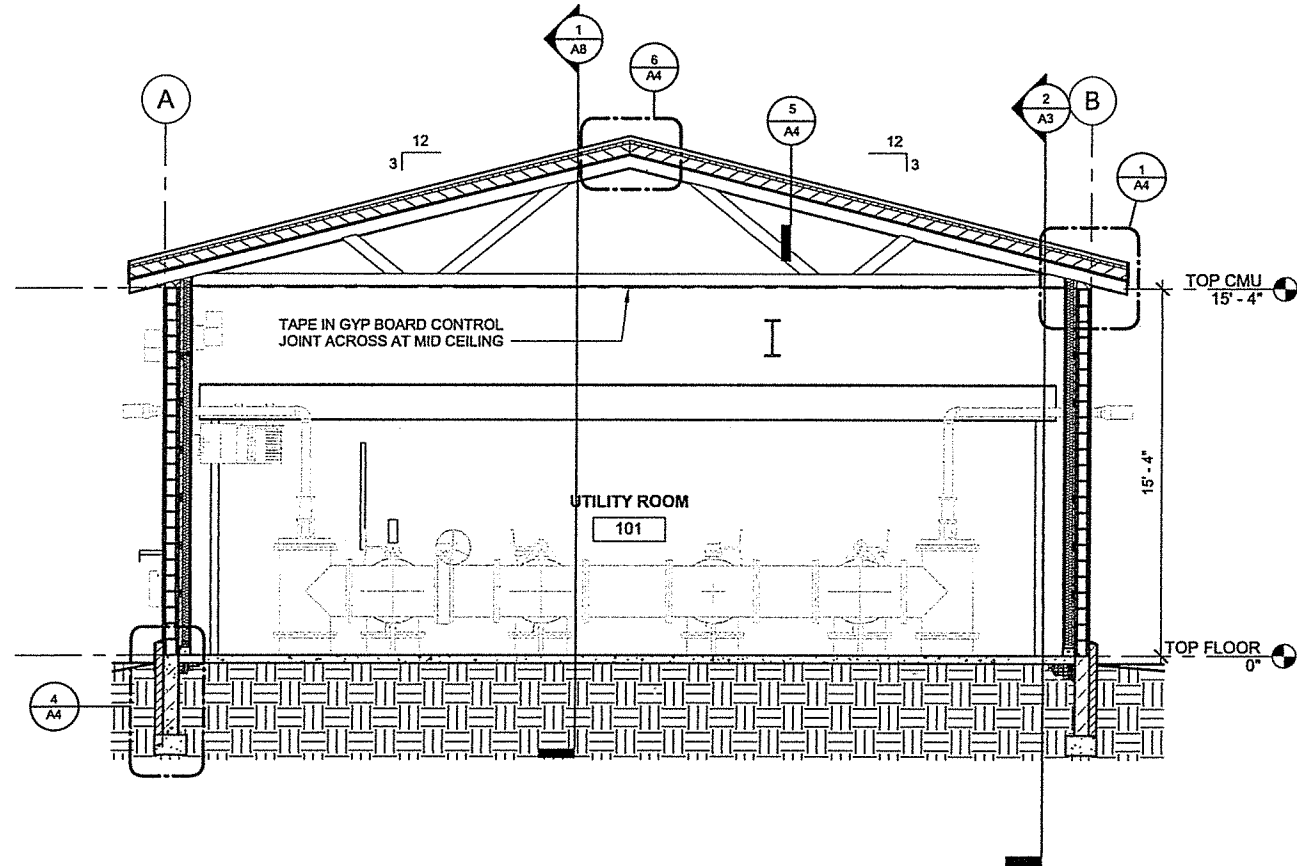
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 DATA TRANSFER CHECKED BY: _____ COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

REUSE OF DOCUMENTS

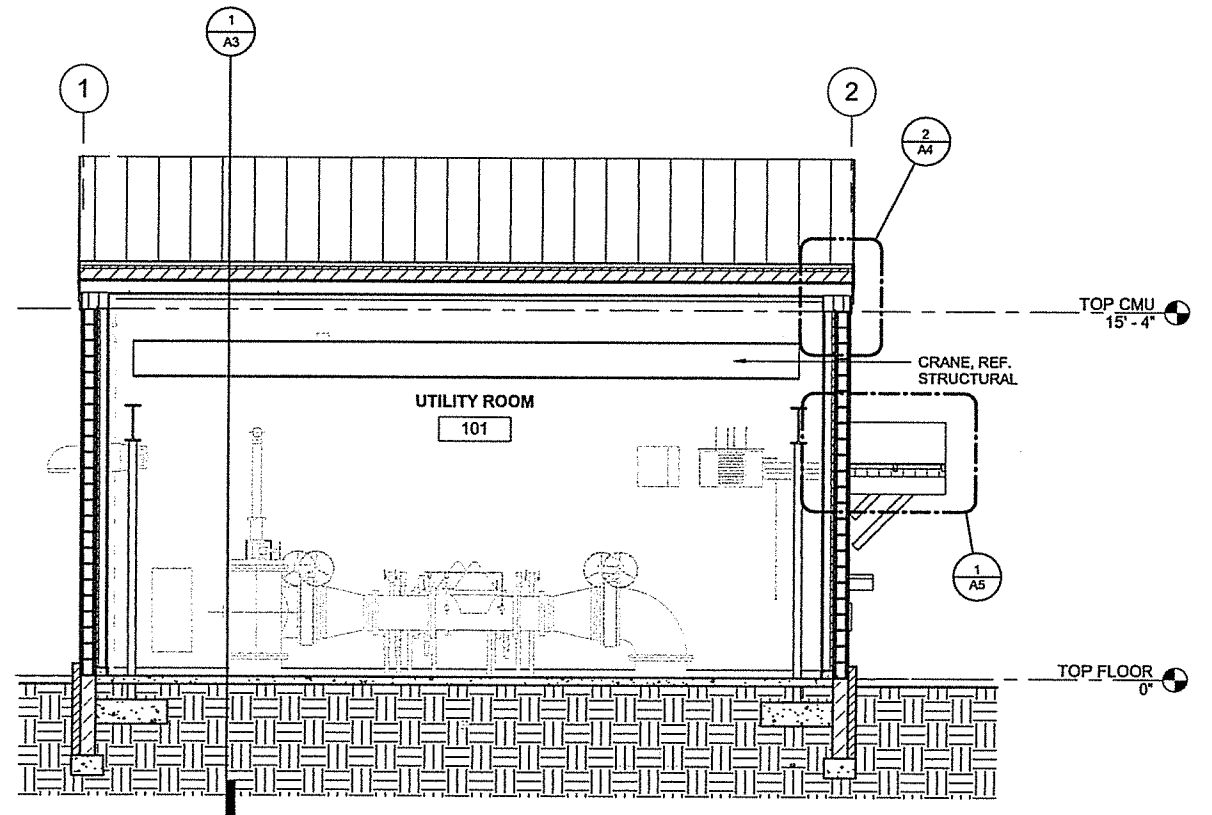
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| | | |
|--|------------------|-------|
| MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY | | |
| GLENN SQUARE PRV FACILITY | | |
| BUILDING ELEVATIONS | | |
| HORIZ SCALE: N/A VERT SCALE: N/A | DATE: 05/19/2021 | GRID: |
| PROJ. ID.: WW.00102 | SHEET A2 of A5 | |



1 SECTION A
A3 1/4" = 1'-0"



2 SECTION B
A3 1/4" = 1'-0"

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" — 1" | | 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 |
| BASE | TS | MJ | TELEPHONE | — | — | — | — | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | — | — | CABLE TV | — | — | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | — | — | | | | |
| STORM SEWER | TS | MJ | DESIGN | ABW | JEM | | | | |
| WATER | TS | MJ | QUANTITIES | ABW | JEM | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | — | — | | | | |
| PLAN CHECK | | | | | REVISIONS | | | | |

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

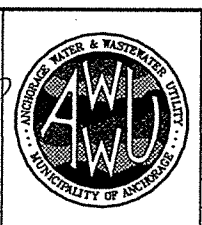
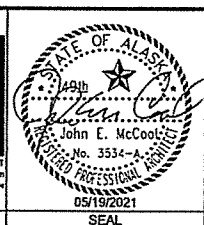
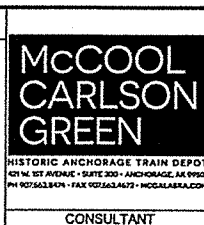
1. DATA PROVIDED BY: _____
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 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

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: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

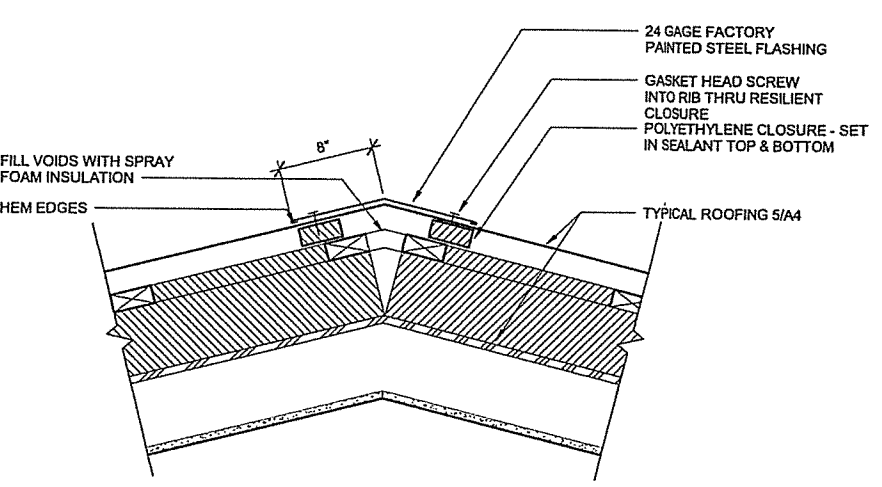
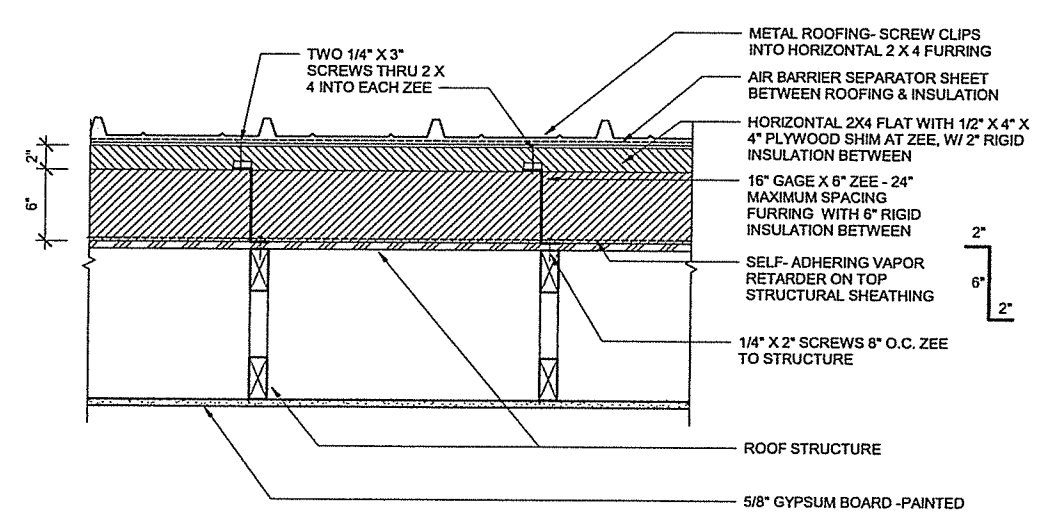
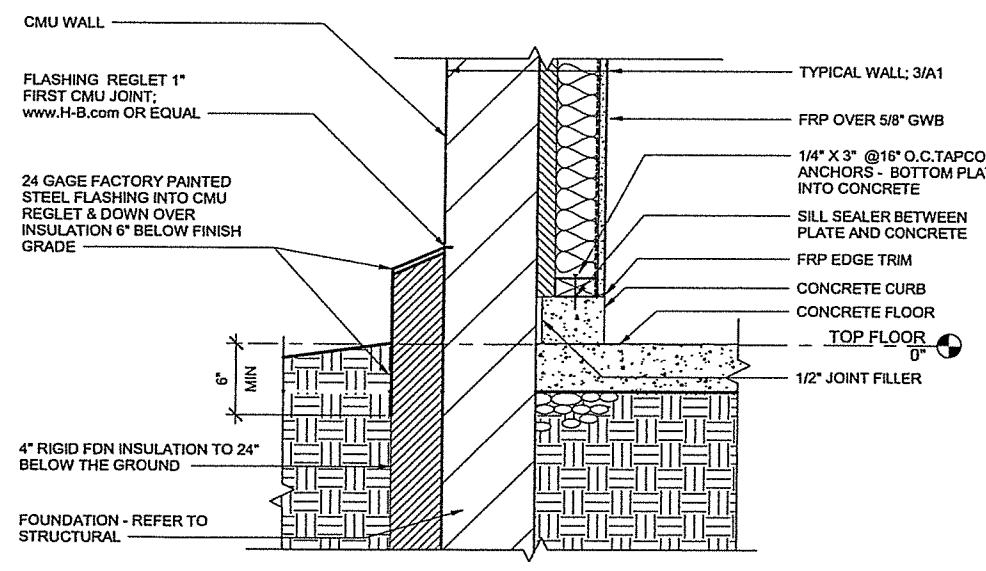
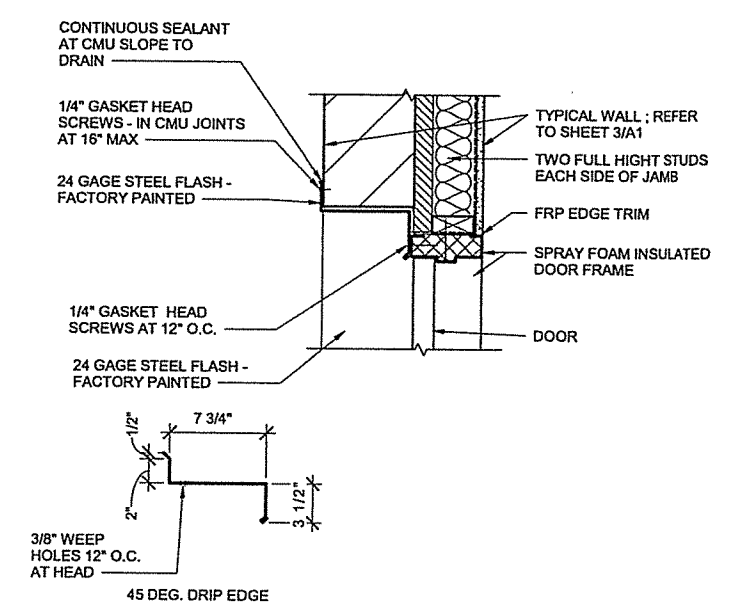
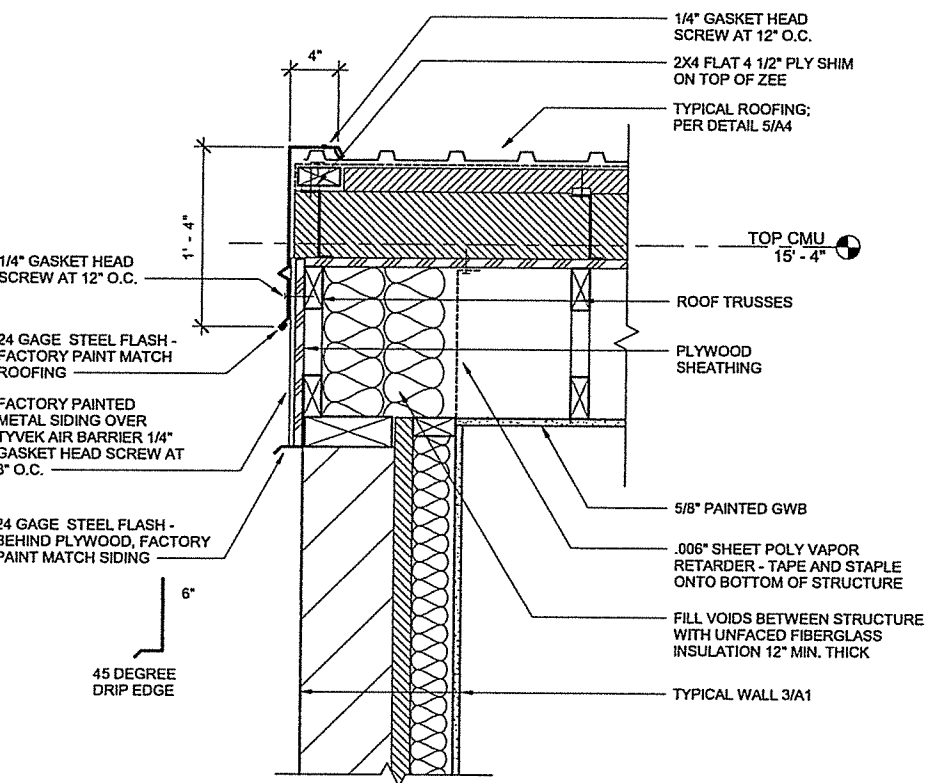
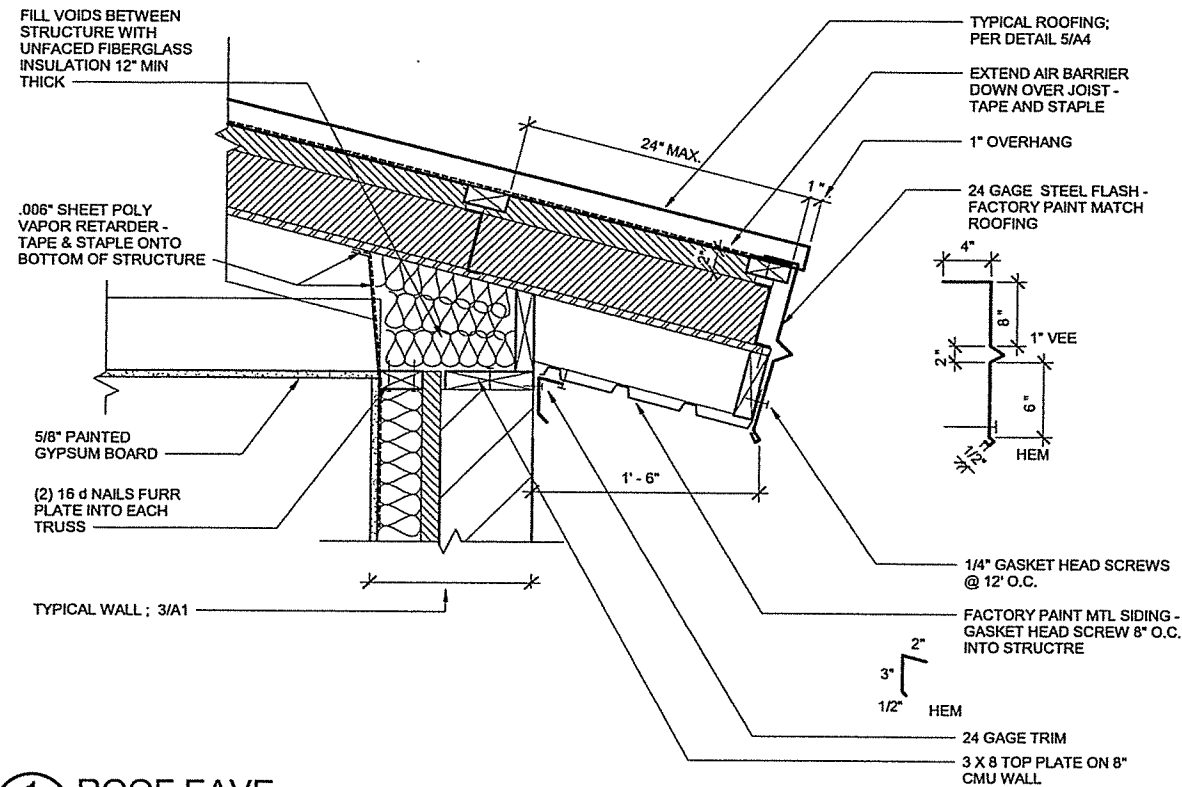
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| | | | |
|---|---------------------|-------|----------|
| MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY | | | |
| GLENN SQUARE PRV FACILITY | | | |
| BUILDING SECTIONS | | | |
| HORIZ SCALE: N/A | DATE: 05/19/2021 | GRID: | A3 of A5 |
| VERT SCALE: N/A | PROJ. ID.: WW.00102 | SHEET | |

5/19/2021 4:50:08 PM



VERIFY SCALE

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.

0" — 1"

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

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

| DATA | DRAWN BY | CHECKED BY | DATE | DESCRIPTION | BY |
|----------------|----------|------------|------|-------------|----|
| BASE | TS | MJ | | | |
| TOPOGRAPHY | TS | MJ | | | |
| PROFILE | — | — | | | |
| SANITARY SEWER | TS | MJ | | | |
| STORM SEWER | TS | MJ | | | |
| WATER | TS | MJ | | | |
| GAS | RB | ML | | | |

PLAN CHECK

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: _____ 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: _____

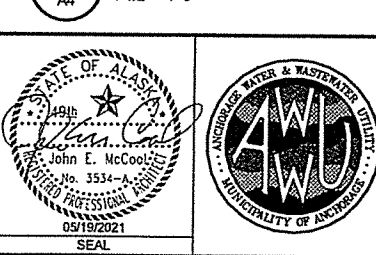
COMPANY: _____

DATE: _____

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CONSULTANT



MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

ARCHITECTURAL DETAILS

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: 05/19/2021
GRID: _____
PROJ. ID.: WW.00102

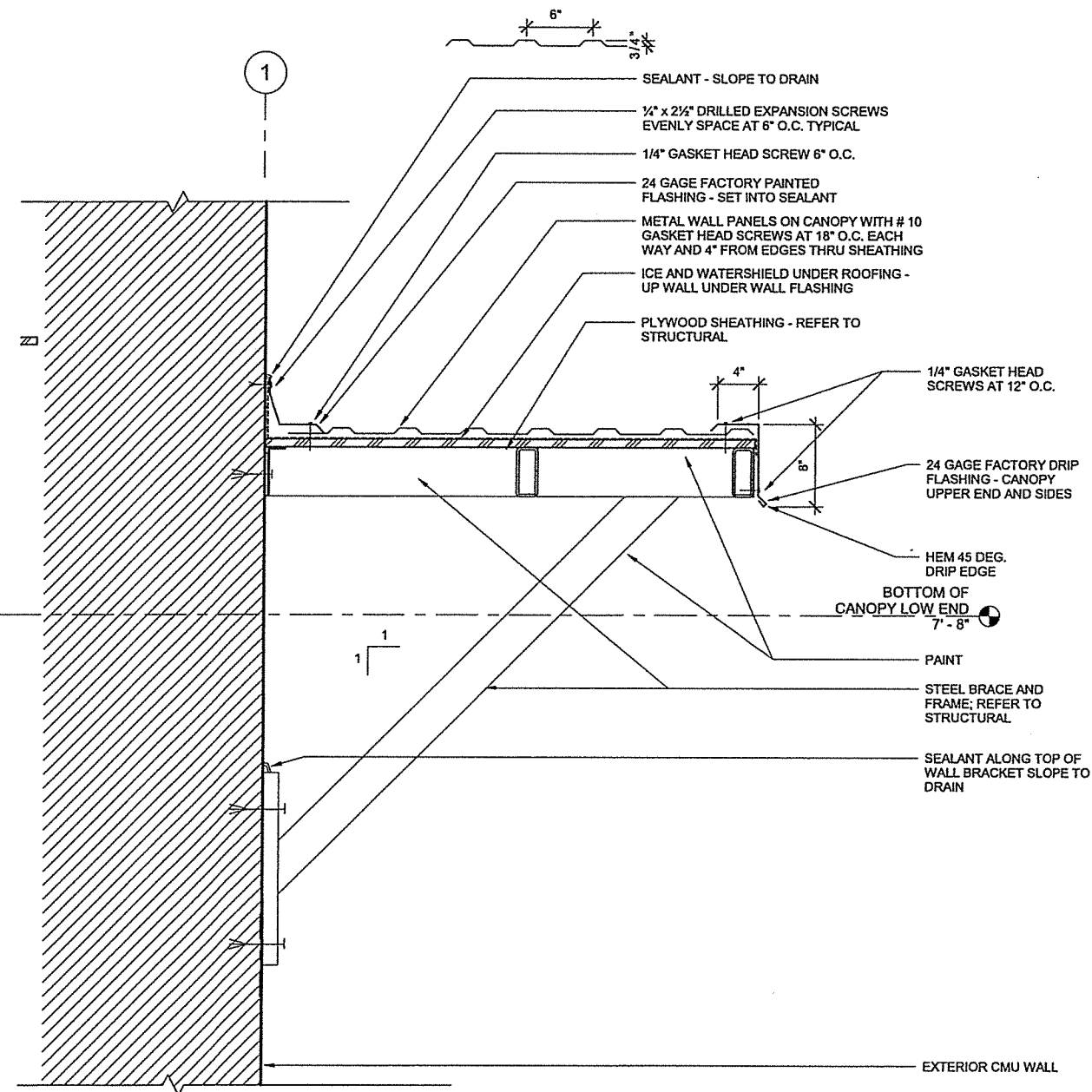
SHEET A4 of A5

AWWU PLAN SET NO. 11131

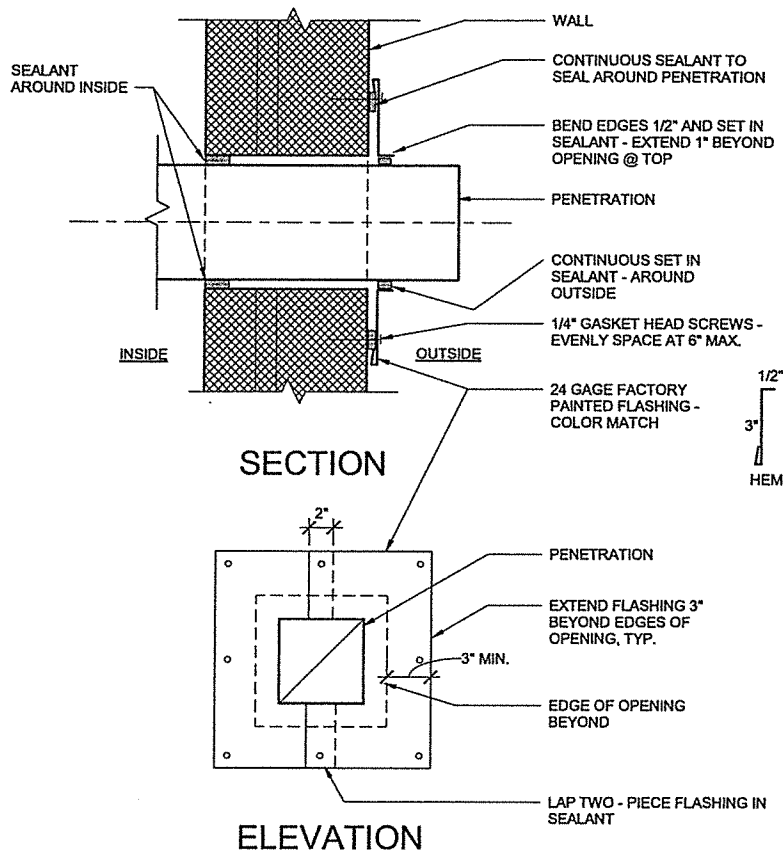
SCHEDULE: A

01/18/2021 4:50:09 PM

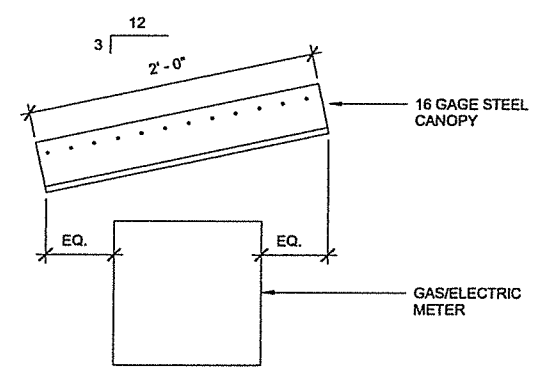
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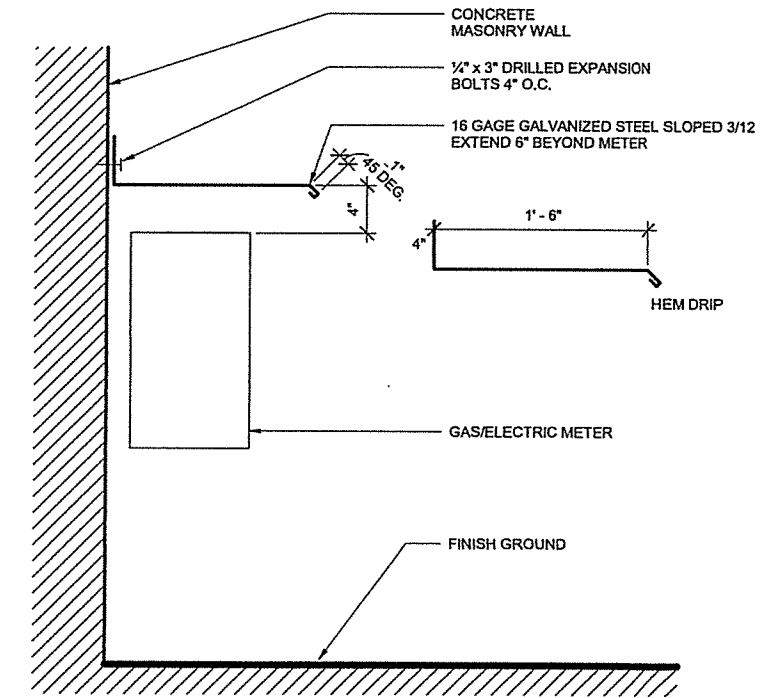
1 DOOR CANOPY SECTION
A5 1 1/2" = 1'-0"



2 WALL PENETRATION - FLASH / SEAL
A5 1 1/2" = 1'-0"



4 GAS & ELECTRIC METER CANOPY - ELEVATION
A5 1 1/2" = 1'-0"



3 GAS & ELECTRIC METER CANOPY
A5 1 1/2" = 1'-0"

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" ——— 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE HORIZ SCALE: N/A VERT SCALE: N/A | |
|----------------|----------|---|-------------------|-----------|------|---|----|--|-----------|
| DATA | DRAWN BY | CHECKED BY | DATE | REV | DATE | DESCRIPTION | BY | DATE | REVISIONS |
| BASE | TS | MJ | TELEPHONE | — | — | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | — | — | CABLE TV | — | — | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | — | — | | | | |
| STORM SEWER | TS | MJ | DESIGN | ABW | JEM | | | | |
| WATER | TS | MJ | QUANTITIES | ABW | JEM | | | | |
| GAS | FB | ML | MAJN. FINAL CHECK | — | — | | | | |

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DATE: _____

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

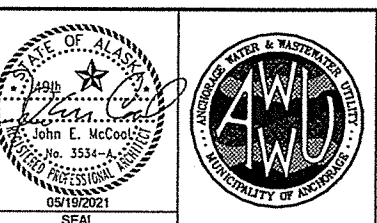
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____
COMPANY: _____
BY: _____ TITLE: _____
DATE: _____

REUSE OF DOCUMENTS

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CONSULTANT



MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

ARCHITECTURAL DETAILS

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: 05/19/2021
GRID: _____
PROJ. ID.: WW.00102

2020026

A5 of A5
SHEET

SCHEDULE: A

ABBREVIATIONS

Table of abbreviations for structural and construction terms, including AB (Anchor Bolt), AISI (American Iron and Steel Institute), and AWPA (American Wood Protection Association).

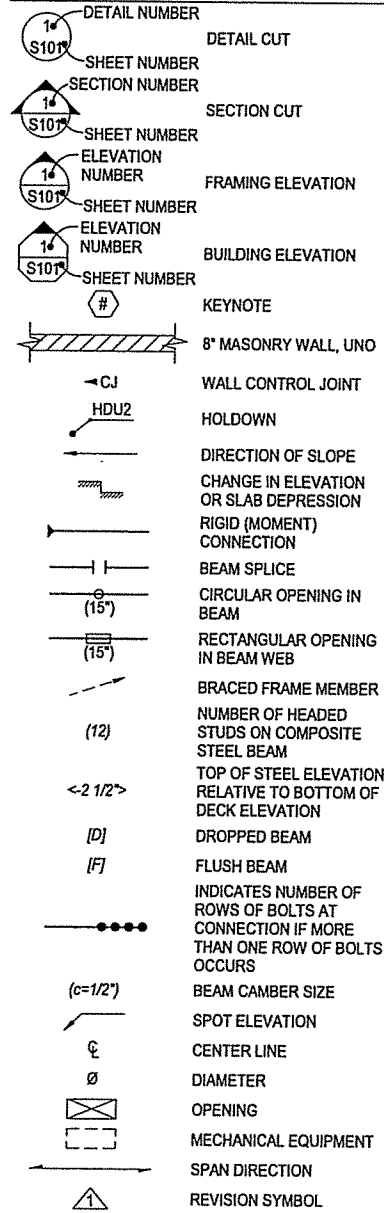
ABBREVIATIONS

Table of abbreviations for materials and construction terms, including GA (Gauge), GALV (Galvanized), and LVC (Light Weight Concrete).

ABBREVIATIONS

Table of abbreviations for quality and structural terms, including QA (Quality Assurance), QC (Quality Control), and R (Radius).

SYMBOLS



DESIGN CRITERIA

Table of design criteria including codes (IBC-12, ASCE/SEI 7-10), risk category, design dead loads, design live loads, design snow loads, design wind loads, design seismic loads, and earthwork requirements.

PROJECT SCHEDULES table with columns A, B, and C, listing project milestones like 'GLENN SQUARE PRV FACILITY' and 'PRV STATION 9 CHRYSLER'.

MATERIALS AND STRENGTH

Table of materials and strength specifications for concrete, structural steel, reinforcing steel, concrete masonry units, wood, and powder actuated fasteners.

VERIFY SCALE

Table for verifying scale, listing drawing types (BASE, TOPOGRAPHY, PROFILE, etc.) and their corresponding scales.

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" 1"

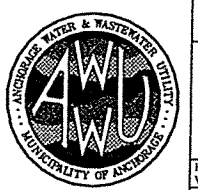
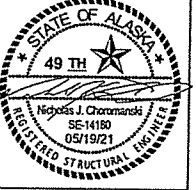
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

RECORD DRAWING

Text area for recording drawing information, including data provided by, data transferred by, and data checked by.

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Text area for reuse of documents, stating that the document is the property of AWWU and is not to be used in whole or in part without authorization.



MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY. GLENN SQUARE PRV FACILITY. GENERAL STRUCTURAL INFORMATION. Includes scale, date, grid, and sheet information.

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE)

GENERAL

THE STRUCTURAL ENGINEER AND/OR ARCHITECT HAVE NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM HIS WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ENGINEER SHALL NOT BE CONSTRUED AS SUPERVISION OF ACTUAL CONSTRUCTION NOR MAKE THEM RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR THEIR EMPLOYEES, OR FOR ACCESS, VISITS, USE, WORK, TRAVEL OR OCCUPANCY BY ANY PERSON.

DRAWINGS INDICATE STRUCTURE IN FINAL FORM CAPABLE OF SUPPORTING DESIGN LOADS. PROVIDE TEMPORARY SUPPORT DURING CONSTRUCTION AS REQUIRED, UNTIL STRUCTURAL ELEMENTS ARE PERMANENTLY INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES AND SEQUENCES OF PROCEDURES REQUIRED TO PERFORM THE WORK.

THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER IN WRITING OF ANY CONDITION WHICH IN THEIR OPINION MAY ENDANGER THE STABILITY OF THE STRUCTURE OR DISTRESS THE STRUCTURE.

CONSTRUCTION MATERIALS SHALL BE DISTRIBUTED APPROPRIATELY IF PLACED ON FRAMED CONSTRUCTION. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.

DO NOT SCALE DRAWINGS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IN WRITING OF ANY DISCREPANCIES.

COORDINATE DIMENSIONS, OPENINGS, EMBEDDED ITEMS AND CONDITIONS WITH ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL CONTRACT DOCUMENTS AND TRADES PRIOR TO CONSTRUCTION. NOT ALL ITEMS ARE INDICATED ON STRUCTURAL CONTRACT DOCUMENTS. NOTIFY STRUCTURAL ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES.

ALL DETAILS ARE TYPICAL. INCORPORATE INTO PROJECT AT APPROPRIATE LOCATIONS WHETHER SPECIFICALLY INDICATED OR NOT.

SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE THE NOTES, DRAWINGS, AND/OR SPECIFICATIONS DIFFER, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR SLABS AND WALLS.

NOTIFY STRUCTURAL ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.

THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF RED-LINE DRAWINGS ON SITE REFLECTING ALL DESIGN CHANGES TO THE ORIGINAL CONTRACT DOCUMENTS.

FOUNDATIONS AND EARTHWORK

REFERENCE GEOTECHNICAL REPORT NO. 10337.00, BY CRW ENGINEERING GROUP, LLC, DATED ____ FOR FOUNDATION AND EXCAVATION INFORMATION.

FOOTINGS AND SLABS ON GRADE SHALL BEAR ON ENGINEERED SOIL PER CIVIL DRAWINGS.

PROVIDE POSITIVE DRAINAGE SLOPES, BOTH DURING AND AFTER CONSTRUCTION, FOR SURFACE AND ROOF RUNOFF, MINIMUM 1/8" FROM BUILDING FOUNDATIONS.

ALL CONTINUOUS FOOTINGS SHALL BE CENTERED ON THE WALL UNO. ALL SPREAD FOOTINGS ARE CENTERED ON COLUMNS OR GRIDS UNO.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY GEOTECHNICAL ASPECTS OF THIS PROJECT. THE OWNER SHALL EMPLOY A REGISTERED GEOTECHNICAL ENGINEER TO PERFORM NECESSARY EARTHWORK INSPECTIONS, TESTING AND QUALITY CONTROL, AS REQUIRED.

REINFORCED CAST IN PLACE CONCRETE

DETAILING PER APPLICABLE ACI DETAILING MANUAL, UNO.

SIZE, SPACING AND MINIMUM LAP SPLICES OF REINFORCING STEEL SHALL BE PROVIDED AS SHOWN IN CONTRACT DOCUMENTS.

REINFORCEMENT SPACINGS INDICATED ON THE DRAWINGS AND DETAILS ARE GIVEN AS A MAXIMUM ON CENTER.

CONTRACTOR SHALL ACCURATELY PLACE, LOCATE, SECURE AND/OR SUPPORT ALL REINFORCING BARS, ANCHOR BOLTS/RODS, EMBEDDED ITEMS, AND WELDED WIRE FABRIC PRIOR TO PLACING CONCRETE. CONTRACTOR SHALL USE GALVANIZED METAL CHAIRS, SPACERS, DOBIES OR HANGERS FOR THE CLEAR CONCRETE COVERAGES.

MINIMUM CONCRETE COVER, UNO:

CONCRETE CAST AGAINST AND EXPOSED TO EARTH: 3"

CONCRETE EXPOSED TO EARTH OR WEATHER: 1-1/2"

SLABS: 3/4"

REINFORCED CAST IN PLACE CONCRETE (CONT.)

TACK WELDING OF REINFORCING BARS SHALL NOT BE ALLOWED WITHOUT PRIOR REVIEW OF THE PROCEDURE WITH THE STRUCTURAL ENGINEER.

SPLICE HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS.

MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED.

ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY CONTROL JOINTS (KEYED OR SAW CUT), SUCH THAT THE JOINT SPACING DOES NOT EXCEED 36 TIMES THE SLAB THICKNESS AND THE ASPECT RATIO OF THE ENCLOSED AREA DOES NOT EXCEED 1.5 TO 1.0. SAW CUTS SHALL BE 1/8" WIDE AND 1/4 TIMES THE SLAB THICKNESS IN DEPTH.

REINFORCED CONCRETE MASONRY UNITS (CMU)

DETAILING PER APPLICABLE ACI DETAILING MANUAL, UNO.

LAY UNITS IN RUNNING BOND.

CENTER REINFORCING IN CMU, UNO.

SOLID GROUT ALL CELLS.

EXTERIOR FACE OF CMU SHALL BE SPLIT FACE FINISH (BLOCKS THAT ARE ENTIRELY BELOW GRADE MAY BE SMOOTH FACE AT CONTRACTOR'S OPTION).

CMU BLOCKS SHALL BE COLORED. COLOR SHALL BE SELECTED BY THE OWNER OR OWNER'S REP FROM CMU MANUFACTURER'S COLOR OPTIONS.

SIZE, SPACING AND MINIMUM LAP SPLICES OF REINFORCING STEEL SHALL BE PROVIDED AS SHOWN IN CONTRACT DOCUMENTS. REINFORCEMENT SPACINGS INDICATED ON THE DRAWINGS AND DETAILS ARE GIVEN AS A MAXIMUM ON CENTER.

DOWEL ALL VERTICAL REINFORCING TO THE FOUNDATION WITH DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.

CONTRACTOR SHALL ACCURATELY PLACE, LOCATE, SECURE AND/OR SUPPORT ALL REINFORCING BARS, ANCHOR BOLTS/RODS, EMBEDDED ITEMS, AND WELDED WIRE FABRIC PRIOR TO PLACING GROUT.

REBAR SPLICES SHALL LAP 48 DIAMETERS UNO. SPLICE HORIZONTAL REINFORCING AT ALL CORNERS AND INTERSECTIONS.

PROVIDE (1) VERTICAL BAR (MATCH VERTICAL WALL REINFORCING SIZE) AT ALL CORNERS, INTERSECTIONS AND ENDS, UNO.

AT OPENINGS PROVIDE (2) #5 HORIZONTAL AT HEAD AND SILL, EXTEND 2'-0" BEYOND OPENING EACH SIDE. PROVIDE (2) #5 VERTICAL EACH SIDE AT JAMBS.

FABRICATE SLEEVES FOR UTILITY LINES THROUGH WALLS WITH STANDARD WEIGHT STEEL PIPE, UNO. NO LONGITUDINAL SLEEVES PERMITTED THROUGH BEAMS OR COLUMNS.

CONTROL JOINTS: SPACE AT 24'-0" OC MAX, UNO. CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 24" OF CONCENTRATED POINTS OF BEARING OR JAMBS OR OVER OPENINGS.

MAXIMUM GROUT LIFT IS 4'-8" WITHOUT CLEANOUTS, 8'-0" WITH CLEANOUTS.

MECHANICALLY VIBRATE GROUT IN VERTICAL SPACE IMMEDIATELY AFTER PLACEMENT AND AGAIN ABOUT FIVE MINUTES LATER. DO NOT INTERRUPT GROUTING FOR MORE THAN ONE HOUR.

STRUCTURAL STEEL

ALL STRUCTURAL STEEL CONSTRUCTION SHALL CONFORM WITH APPLICABLE AISC HANDBOOK.

BEAMS, COLUMNS AND BRACES SHALL NOT BE SPLICED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS INCLUDING ERECTION ANGLES AND LIFT HOLES.

ALL STEEL TO STEEL BOLTED CONNECTIONS SHALL BE WITH HIGH STRENGTH BOLTS, UNO. MIN OF (2) BOLTS PER CONNECTION.

ALL STRUCTURAL STEEL SHALL BE SURFACE PREPARED AND SHOP PAINTED AS NOTED. SURFACE PREPARATION SHALL CONFORM TO SSPC SP-3 POWER TOOL CLEANING TO REMOVE ALL SCALE AND RUST. SHOP PAINT SHALL BE SSPC PAINT 25, ALKYD PRIMER, GRAY COLOR, APPLIED TO A MINIMUM DRY THICKNESS OF 2 MILS. NO PAINT ON SURFACES EMBEDDED IN CONCRETE, SURFACES TO RECEIVE SPRAYED ON FIRE PROOFINGS, FAYING AREAS OF SLIP-CRITICAL HIGH STRENGTH BOLTED CONNECTIONS OR WITHIN 2 INCHES OF FIELD WELDING. OPTIONALLY, PROVIDED CLASS B COATING AT FAYING AREAS OF SLIP-CRITICAL JOINTS. STRUCTURAL STEEL EXPOSED TO WEATHER IN FINISHED WORK SHALL BE HOT-DIP GALVANIZED.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION. SHOP DRAWINGS SHALL INCLUDE PIECE MARKS, ERECTION PLANS SHOWING BEAM SIZES AND DETAILS WITH CORRESPONDING CONTRACTOR DOCUMENT INDICATORS. SHOP DRAWINGS SHALL MAKE A DISTINCTION BETWEEN SHOP WELDS AND FIELD WELDS.

STRUCTURAL STEEL WELDING

ALL STRUCTURAL WELDING SHALL BE PRE-QUALIFIED AND CONFORM TO AISC AND AWS SPECIFICATIONS.

ALL WELDING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AWS CODE. USE E70 SERIES LOW HYDROGEN ELECTRODES STORED AND MAINTAINED IN DRY CONDITION.

ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS HAVING CURRENT CERTIFICATES AND EXPERIENCE IN THE TYPE OF WELD BEING PERFORMED. WELDING CERTIFICATES SHALL BE THOSE ISSUED BY AN ACCEPTED TEST AGENCY.

STRUCTURAL CONSTRUCTION DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP WELDS AND FIELD WELDS. THE CONTRACTOR SHALL COORDINATE WELDING DESIGNATIONS BETWEEN FABRICATOR AND ERECTOR. ALL STEEL SHOP DRAWINGS SHALL MAKE DISTINCTION BETWEEN SHOP WELDS AND FIELD WELDS.

ROUGH CARPENTRY AND PLYWOOD

ALL FRAMING SHALL BE PROVIDED IN ACCORDANCE WITH IBC CHAPTER 23. FRAMING LUMBER SHALL COMPLY WITH THE APPLICABLE NDS CODE.

MAXIMUM MOISTURE CONTENT OF LUMBER SHALL NOT EXCEED 19 PERCENT.

ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY.

ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE-TREATED WOOD STAMPED BY AN APPROVED AGENCY. ALL UNTREATED LUMBER SHALL BE ISOLATED FROM DIRECT CONTACT WITH CONCRETE OR MASONRY WITH ICE AND WATER SHIELD.

ALL PLYWOOD SHALL CONFORM TO PS-1 OR APA PRP-108, SHALL HAVE AN EXTERIOR OR EXPOSURE 1 CLASSIFICATION AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY.

PLYWOOD SHALL BE INSTALLED WITH FACE GRAIN ORIENTED PERPENDICULAR TO SUPPORTS, STAGGER JOINTS. PLYWOOD NAILING SHALL BE PROVIDED ON ALL BOUNDARIES, EDGES AND INTERMEDIATE SUPPORTS.

METAL FRAMING CONNECTORS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INCORPORATED, OR OTHER APPROVED EQUIVALENT MANUFACTURER. ALL NAILS/SCREW HOLES IN CONNECTORS SHALL BE FILLED WITH NAILS/SCREWS OF THE LARGEST SIZE INDICATED IN THE MANUFACTURER'S CATALOG UNO.

NAILING SHALL CONFORM TO TABLE 2304.9.1 OF THE IBC. ALL NAILS SHALL BE COMMON SIZE IN ACCORDANCE WITH ASTM F1667.

PREFABRICATED WOOD TRUSSES

THE TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN, FABRICATION AND ERECTION PROCEDURES OF ALL TRUSSES, BRIDGING AND/OR BLOCKING PANELS, HANGERS, BRACING, ETC. FOR A COMPLETE INSTALLATION OF THE TRUSS SYSTEM. TRUSS CONFIGURATIONS ARE INDICATED ON THE DRAWINGS. ALL BRACING AND BRIDGING SIZES AND SPACINGS PER THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF THE TRUSS PLATE INSTITUTE.

TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH IBC CHAPTER 23 TO SUPPORT SELF WEIGHT PLUS LIVE LOAD, SUPERIMPOSED DEAD LOADS, AND LATERAL LOADS STATED IN THE GENERAL STRUCTURAL NOTES OR LOCATED ON PLANS. ROOF TRUSSES SHALL BE DESIGNED TO ACCOMMODATE A FUTURE TOP CHORD DEAD LOAD OF 300 POUNDS AT ANY LOCATION. THE UNIFORM LOADS DO NOT INCLUDE SPECIAL OR ADDITIONAL LOADS NOTED ON THE PLANS OR DETAILS. THE ROOF LOAD DURATION FACTOR IS 1.15.

LIMIT TOTAL LOAD DEFLECTIONS TO SPAN/240 AT SIMPLE SPANS UNO. LIMIT LIVE LOAD DEFLECTIONS TO SPAN/360 AT SIMPLE SPANS UNO. ALL TRUSSES SHALL BE CAMBERED FOR 1.5 TIMES THE DESIGN DEAD LOAD.

ALL CONNECTORS SHALL HAVE CURRENT ICC APPROVAL. ALL TRUSS TO TRUSS CONNECTORS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER. MULTIPLE TRUSS MEMBERS SHALL BE FASTENED TOGETHER TO ALLOW TRANSFER OF SHEAR AND TENSION FORCES (MINIMUM 200 PLF) AT PLYWOOD SHEATHING JOINTS AND TO PREVENT CROSS GRAIN BENDING OF TOP CHORDS. ATTACHMENT SHALL BE A CONTINUOUS 20 GAGE METAL PLATE OR OTHER APPROVED MEANS. METHOD OF ATTACHMENT SHALL BE INDICATED ON SHOP DRAWINGS FOR REVIEW.

WHERE PERMANENT BRACING OF TRUSS MEMBERS IS REQUIRED BY THE TRUSS DESIGN, IT SHALL BE ACCOMPLISHED BY THE FOLLOWING METHOD: THE TRUSSES SHALL BE DESIGNED SO THAT THE BUCKLING OF ANY INDIVIDUAL TRUSS MEMBER CAN BE RESISTED INTERNALLY BY THE STRUCTURE (E.G. BUCKLING MEMBER T-BRACING, L-BRACING, ETC.) OF THE INDIVIDUAL TRUSS. THE TRUSS INDIVIDUAL MEMBER BUCKLING REINFORCEMENT SHALL BE INSTALLED AS SHOWN ON THE TRUSS DESIGN DRAWING OR ON SUPPLEMENTAL TRUSS MEMBER BUCKLING REINFORCEMENT DIAGRAMS PROVIDED BY THE TRUSS DESIGNER.

THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ERECTION DRAWINGS AND DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW PRIOR TO MANUFACTURE. CALCULATIONS AND SHOP DRAWINGS SHALL SHOW ANY SPECIAL DETAILS REQUIRED AT BEARING POINTS.

ALL FABRICATION SHALL BE PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHOR EMBEDMENT SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS. ALL POST-INSTALLED ANCHORS AND DOWELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS INCLUDING DRILL BIT SIZE, HOLE DEPTH AND CLEANING, MINIMUM EMBEDMENT, EDGE DISTANCES, MATERIAL PLACEMENT, TEMPERATURE AND MOISTURE CONTROL AND FINAL TORQUING REQUIREMENTS.

CONTRACTOR MAY NOT USE SUBSTITUTES FOR POST-INSTALLED ANCHORS WITHOUT PRIOR WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

NO REINFORCING BARS SHALL BE CUT TO INSTALL ANCHORS. ALL DEFECTIVE ANCHOR HOLES SHALL BE GROUTED WITH EPOXY ADHESIVE AND A NEW HOLE DRILLED A MINIMUM OF (3) BOLT DIAMETERS AWAY.

SPECIAL INSPECTION OF POST-INSTALLED ANCHORS IS REQUIRED.

STEEL GRATING

STEEL GRATING SHALL BE MANUFACTURED FROM 3/8" THICK BEARING BAR SPACED AT 15/16" OC WITH CROSS RODS AT 4" OC, BAR DEPTH AS SPECIFIED IN CONSTRUCTION DOCUMENTS.

ALL STEEL GRATING SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 OR A153, G60 MINIMUM THICKNESS. BEARING BARS SHALL BE SMOOTH UNO.

STEEL GRATING SECTIONS SPECIFIED AS REMOVABLE SHALL BE DIMENSIONED SUCH THAT FINISHED PIECE WEIGHT DOES NOT EXCEED 100 LBS. REMOVABLE GRATING SHALL BE BANDED WITH FULL DEPTH BEARING BARS EACH SIDE.

STRUCTURAL SHOP DRAWINGS AND PRODUCT DATA SUBMITTALS

SUBMIT SHOP DRAWINGS AND/OR PRODUCT DATA FOR THE FOLLOWING ITEMS, PRIOR TO FABRICATION:

- CONCRETE MATERIALS
- CONCRETE REINFORCING STEEL
- MASONRY MATERIALS
- MASONRY REINFORCING STEEL
- STRUCTURAL STEEL FRAMING
- PREFABRICATED WOOD TRUSSES

CONTRACTOR SHALL REVIEW AND STAMP SUBMITTALS PRIOR TO SUBMISSION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS PLACED PRIOR TO RECEIPT OF REVIEWED SHOP DRAWINGS. CONTRACTOR SHALL ALLOW A MINIMUM OF (10) WORKING DAYS FOR REVIEW.

CONTRACT DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS. THE MANUFACTURER OR FABRICATOR SHALL CLOUD ANY CHANGES, SUBSTITUTIONS AND/OR DEVIATIONS FROM THE CONTRACT DOCUMENTS. ANY CHANGES, SUBSTITUTIONS AND/OR DEVIATIONS THAT ARE NOT CLOUDED OR FLAGGED SHALL NOT BE CONSIDERED ALLOWED AFTER THE ENGINEER'S REVIEW UNO.

THE ENGINEER'S REVIEW IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS. RESPONSIBILITY FOR CORRECTNESS AND COMPLETENESS SHALL REST WITH THE CONTRACTOR. SHOP DRAWINGS WILL BE RETURNED FOR RESUBMITTAL IF SIGNIFICANT ERRORS ARE FOUND DURING REVIEW.

THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. SHOP DRAWINGS PROCESSED BY THE ENGINEER SHALL NOT BE CONSIDERED CHANGE ORDERS. ITEMS THAT ARE OMITTED OR SHOWN INCORRECTLY AND THAT ARE NOT FLAGGED BY THE ENGINEER ARE NOT TO BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT ITEMS ACCORDING TO THE CONTRACT DOCUMENTS. SHOULD A DISCREPANCY EXIST BETWEEN THE PROCESSED SHOP DRAWINGS AND THE CONTRACT DOCUMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN.

THE ENGINEER RESERVES THE RIGHT TO MAKE CHANGES TO THE CONTRACT DOCUMENTS, AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW.

FOR HARD COPY SUBMITTALS, PROVIDE NO MORE THAN FOUR SETS FOR REVIEW (ONE COPY TO BE RETAINED BY THE ENGINEER OF RECORD). FOR ELECTRONIC SUBMITTALS, PROVIDE PDF FILES ONLY. ALL SUBMITTALS WITH A REQUESTED REVIEW TIME OF LESS THAN (10) WORKING DAYS MAY BE RETURNED WITHOUT REVIEW AT THE ENGINEER'S DISCRETION.

5/14/2021 6:20:58 PM

AWWU PLAN SET NO. 11131

SCHEDULE: A

VERIFY SCALE

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" 1"

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

| DATA | DRAWN BY | CHECKED BY | DATE | DESCRIPTION | BY |
|----------------|----------|------------|------------------|-------------|-----|
| BASE | TS | NJ | TELEPHONE | --- | --- |
| TOPOGRAPHY | TS | NJ | ELECTRIC | TS | NJ |
| PROFILE | --- | --- | CABLE TV | --- | --- |
| SANITARY SEWER | TS | NJ | TRAFFIC SIGNAL | --- | --- |
| STORM SEWER | TS | NJ | DESIGN | MEH | NJC |
| WATER | TS | NJ | QUANTITIES | MEH | NJC |
| GAS | RB | ML | MUN. FINAL CHECK | --- | --- |

PLAN CHECK

REVISIONS

FULL SIZE SCALE

HORIZ SCALE: N/A

VERT SCALE: N/A

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

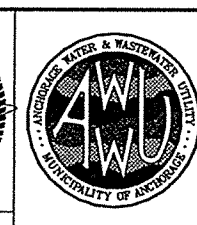
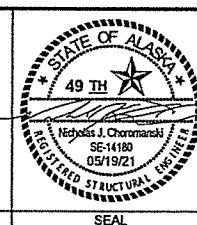
1. DATA PROVIDED BY: _____
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____
BY: _____ TITLE: _____
DATE: _____

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

REUSE OF DOCUMENTS

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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GENERAL STRUCTURAL NOTES

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: 05/19/21
GRID: N/A
PROJ. ID.: WW.00102

S2 of S8
SHEET

5/18/2021 5:28:59 PM

DEFERRED STRUCTURAL SUBMITTALS

THE FOLLOWING ITEMS ARE DESIGNED AND DETAILED BY THE CONTRACTOR USING THE LOADING AND CRITERIA SHOWN IN THE CONTRACT DOCUMENTS. DEFERRED SUBMITTALS SHALL INCLUDE CALCULATIONS AND DRAWINGS STAMPED BY AN ALASKA REGISTERED ENGINEER AND ARE TO BE SUBMITTED TO THE CONTRACTING OFFICER PRIOR TO FABRICATION:

MECHANICAL UNIT SEISMIC RESTRAINT
ROOFING ATTACHMENT
PREFABRICATED WOOD TRUSSES
BRIDGE CRANE AND SUPPORT FRAME

REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL FOR OTHER DEFERRED SUBMITTALS.

DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE PRIOR APPROVAL OF THE BUILDING OFFICIAL. THE ARCHITECT OR ENGINEER OF RECORD SHALL LIST THE DEFERRED SUBMITTALS ON THE CONTRACT DOCUMENTS AND THE CONTRACTOR SHALL SUBMIT THE DEFERRED SUBMITTAL DOCUMENTS FOR REVIEW BY THE BUILDING OFFICIAL.

SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE CONTRACTING OFFICIAL OR ENGINEER OF RECORD A MINIMUM OF 30 DAYS PRIOR TO FABRICATION. THE DOCUMENTS SHALL BE REVIEWED FOR GENERAL CONFORMANCE WITH THE DRAWINGS. A COPY OF THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

SPECIAL STRUCTURAL INSPECTIONS AND TESTING

THE OWNER (OR REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT) SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION AND TESTING DURING CONSTRUCTION OF THE TYPES OF WORK REQUIRING SPECIAL INSPECTION AS INDICATED ON THE DRAWINGS.

EACH SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND STRUCTURAL ENGINEER OF RECORD, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.

THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ENGINEER OR ARCHITECT OF RECORD. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THEN IF UNCORRECTED, TO THE ENGINEER OR ARCHITECT OF RECORD AND THE BUILDING OFFICIAL.

UPON COMPLETION OF THE ASSIGNED WORK, THE SPECIAL INSPECTOR SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT, TO THE BEST OF THEIR KNOWLEDGE, THE WORK IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

DEFINITIONS

CONTINUOUS SPECIAL INSPECTION: CONTINUOUS SPECIAL INSPECTION IS THE FULL TIME OBSERVATION OF THE WORK BY THE SPECIAL INSPECTOR PRESENT IN THE WORK AREA WHENEVER WORK IS BEING PERFORMED. PERFORM CONTINUOUS SPECIAL INSPECTION WHERE SPECIFIED AS INDICATED IN THE SPECIAL INSPECTION TABLES.

PERIODIC SPECIAL INSPECTION: PERIODIC SPECIAL INSPECTION IS THE INTERMITTENT OBSERVATION OF THE WORK BY A SPECIAL INSPECTOR PRESENT IN THE WORK AREA WHILE WORK IS BEING PERFORMED. THE INTERMITTENT OBSERVATION PERIODS SHALL BE AT TIME OF SIGNIFICANT WORK, RECURRENT OVER THE COMPLETE WORK PERIOD AND TOTAL AT LEAST 25 PERCENT OF THE TOTAL WORK TIME FOR A GIVEN TASK. PERFORM PERIODIC SPECIAL INSPECTION WHERE SPECIFIED FOR ITEMS AS INDICATED IN THE SPECIAL INSPECTION TABLES.

Table with 5 columns: SYSTEM OR MATERIAL, IBC CODE REFERENCE, CODE OR STANDARD REFERENCE, FREQUENCY (CONTINUOUS, PERIODIC), and REMARKS. Includes rows for POST-INSTALLED ANCHORS and SPECIAL INSPECTIONS APPLY TO ANCHOR PRODUCT NAME, TYPE, DIMENSIONS, HOLE DIMENSIONS, COMPLIANCE WITH DRILL BIT REQUIREMENTS, CLEANLINESS OF THE HOLE AND ANCHOR, ADHESIVE EXPIRATION DATE, ANCHOR/ADHESIVE INSTALLATION, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE.

Table with 5 columns: SYSTEM OR MATERIAL, IBC CODE REFERENCE, CODE OR STANDARD REFERENCE, FREQUENCY (CONTINUOUS, PERIODIC), and REMARKS. Includes rows for CONCRETE (REINFORCING STEEL AND PRESTRESSING TENDONS AND PLACEMENT, PLACEMENT OF CAST-IN-PLACE ANCHOR BOLTS, VERIFY USE OF REQUIRED MIX DESIGNS(S), SAMPLING OF CONCRETE FOR STRENGTH, SLUMP, AIR TESTS, AND TEMPERATURE DETERMINATION, CONCRETE AND SHOTCRETE PLACEMENT, CONCRETE AND SHOTCRETE CURING), MASONRY (LEVEL C) (VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. PROPORTIONS OF SITE-MIXED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS, B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES, C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS, D. PLACEMENT OF REINFORCEMENT, CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES, E. GROUT SPACE PRIOR TO GROUTING, F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS, G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS, H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION, J. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 F) OR HOT WEATHER (TEMPERATURE ABOVE 90 F), OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS).

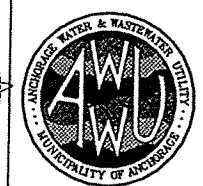
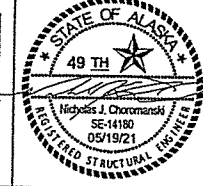
Table with 5 columns: SYSTEM OR MATERIAL, IBC CODE REFERENCE, CODE OR STANDARD REFERENCE, FREQUENCY (CONTINUOUS, PERIODIC), and REMARKS. Includes rows for SOILS (VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY, VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL, PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS, VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL, PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY SITE HAS BEEN PROPERLY PREPARED).

Table with 5 columns: SYSTEM OR MATERIAL, IBC CODE REFERENCE, CODE OR STANDARD REFERENCE, FREQUENCY (CONTINUOUS, PERIODIC), and REMARKS. Includes rows for TESTING FOR SPECIAL INSPECTIONS (GEOTECHNICAL: FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY, MATERIAL VERIFICATION; CONCRETE: CONCRETE STRENGTH, CONCRETE SLUMP, CONCRETE AIR CONTENT, CONCRETE TEMPERATURE, SHOTCRETE STRENGTH; MASONRY: UNIT STRENGTH METHOD, PRISM TEST METHOD).

VERIFY SCALE table with columns for DATA, DRAWN BY, CHECKED BY, REV, DATE, and DESCRIPTION. Includes rows for BASE, TOPOGRAPHY, PROFILE, SANITARY SEWER, STORM SEWER, WATER, GAS, and PLAN CHECK.

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: BY: 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: COMPANY: BY: TITLE: DATE:

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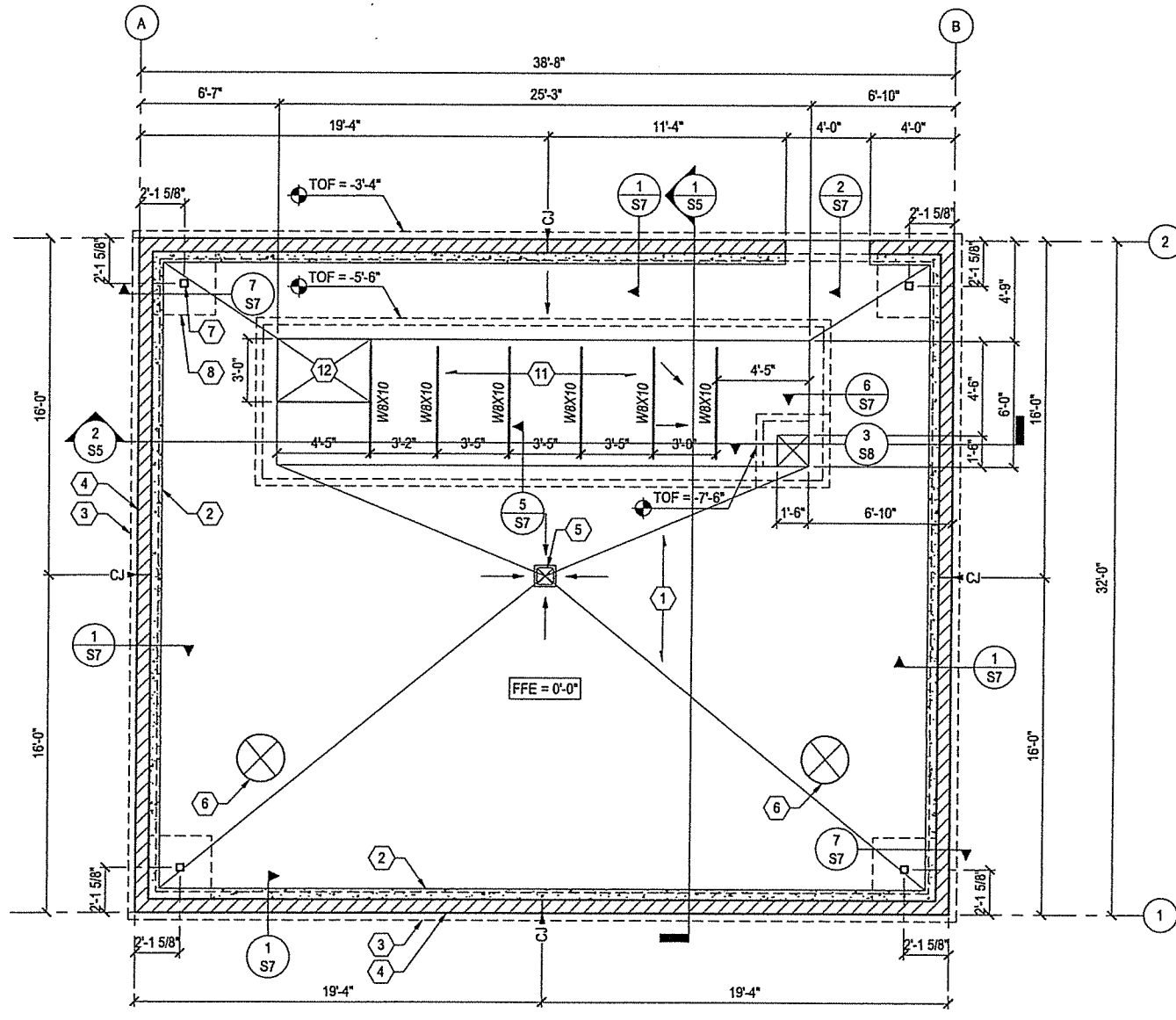
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY GLENN SQUARE PRV FACILITY SPECIAL INSPECTIONS TABLES HORIZ SCALE: N/A VERT SCALE: N/A DATE: 05/19/21 GRID: NA SHEET 53 of 58 PROJ. ID.: WW.00102

AWWU PLAN SET NO. 11131

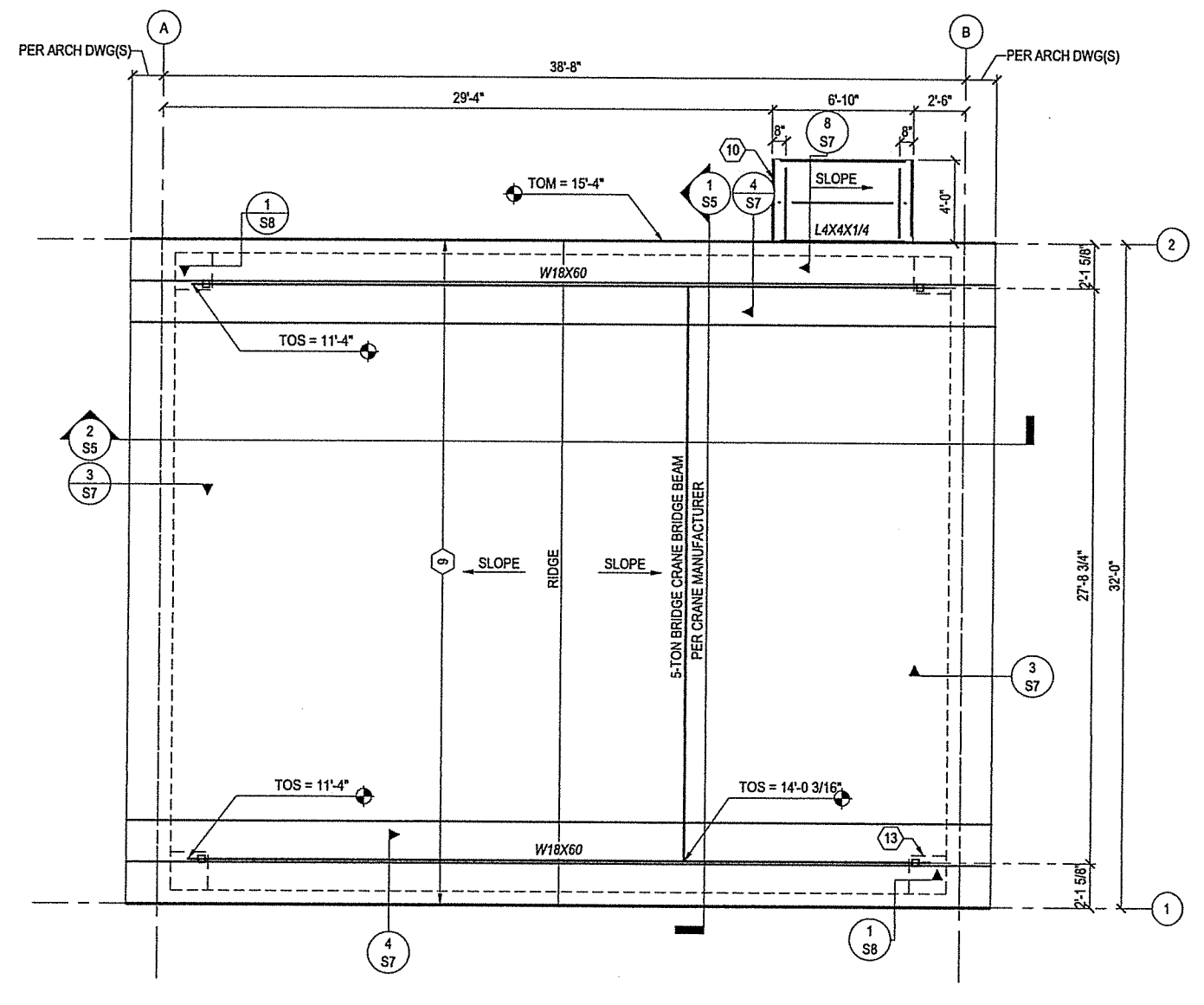
SCHEDULE: A

KEYNOTES:

- 1 4" CONC SLAB ON GRADE WITH #3 BARS AT 12" OC EACH WAY.
- 2 4" TALL CONC. CURB, FULL PERIMETER.
- 3 TYPICAL: 10" THICK x 1'-4" WIDE CONC FOOTING WITH (2) #5 BARS CONT.
- 4 TYPICAL: 8" CMU WALL, REINFORCED WITH (1) #5 VERT BAR AT 24" OC, AND (2) #5 HORIZ BARS AT 48" OC.
- 5 FLOOR DRAIN PER MECH.
- 6 TYPICAL: PIPE PENETRATION THRU FLOOR, LOCATION AND SIZE PER MECH.
- 7 TYPICAL OF (4): HSS4x4x1/4 STEEL COLUMN.
- 8 TYPICAL: 3'-0"x3'-0"x12" CONC FOOTING, REINFORCE W/ (3) #5 EACH WAY, BOTTOM.
- 9 ROOF SHEATHING OVER PREFAB WOOD TRUSSES AT 24" OC.
- 10 TYPICAL, UNO: HSS4x2x3/16.
- 11 2 1/4" STEEL BAR GRATING PER GSM.
- 12 REMOVABLE STEEL BAR GRATING SECTION.
- 13 TYPICAL: STEEL ANGLE BRACE PER DETAIL 2/S7.



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



2 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE HORIZ SCALE: N/A VERT SCALE: N/A | |
|----------------|----|---|------------------|---------|------|---|----|--|--|
| DATA | BY | CHECKED | DATE | REV | DATE | DESCRIPTION | BY | DATE | |
| BASE | TS | MJ | TELEPHONE | | | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | | | | | | |
| PROFILE | | | CABLE TV | | | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | | | | | | |
| STORM SEWER | TS | MJ | DESIGN | MEH | NJC | | | | |
| WATER | TS | MJ | QUANTITIES | MEH | NJC | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | | | | | | |

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

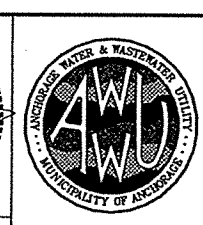
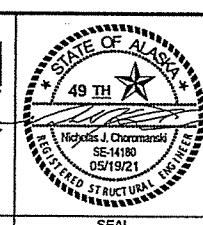
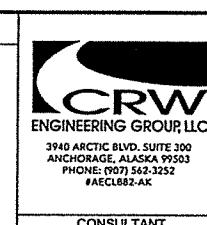
1. DATA PROVIDED BY: _____
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 BY: _____ TITLE: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
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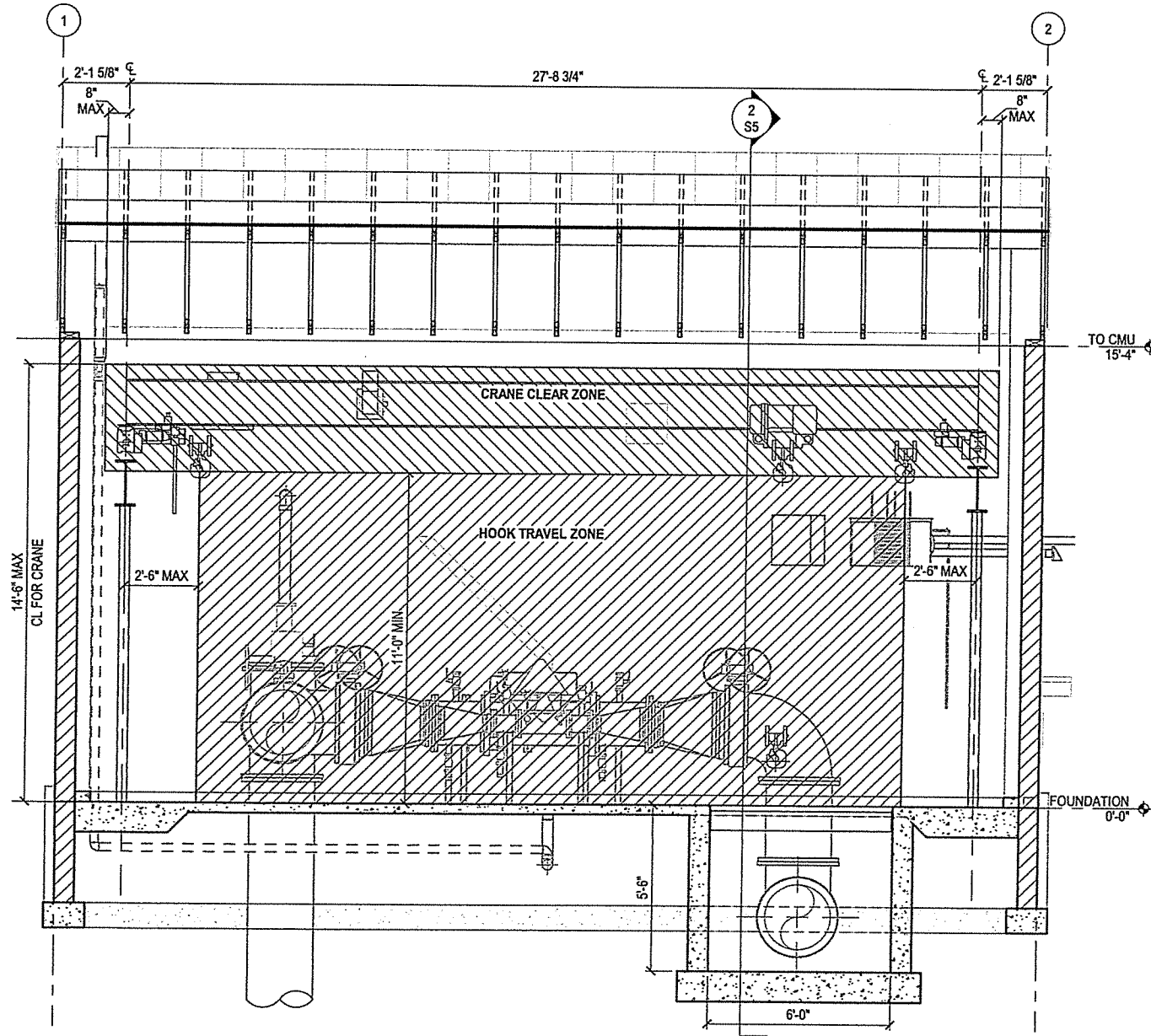
MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

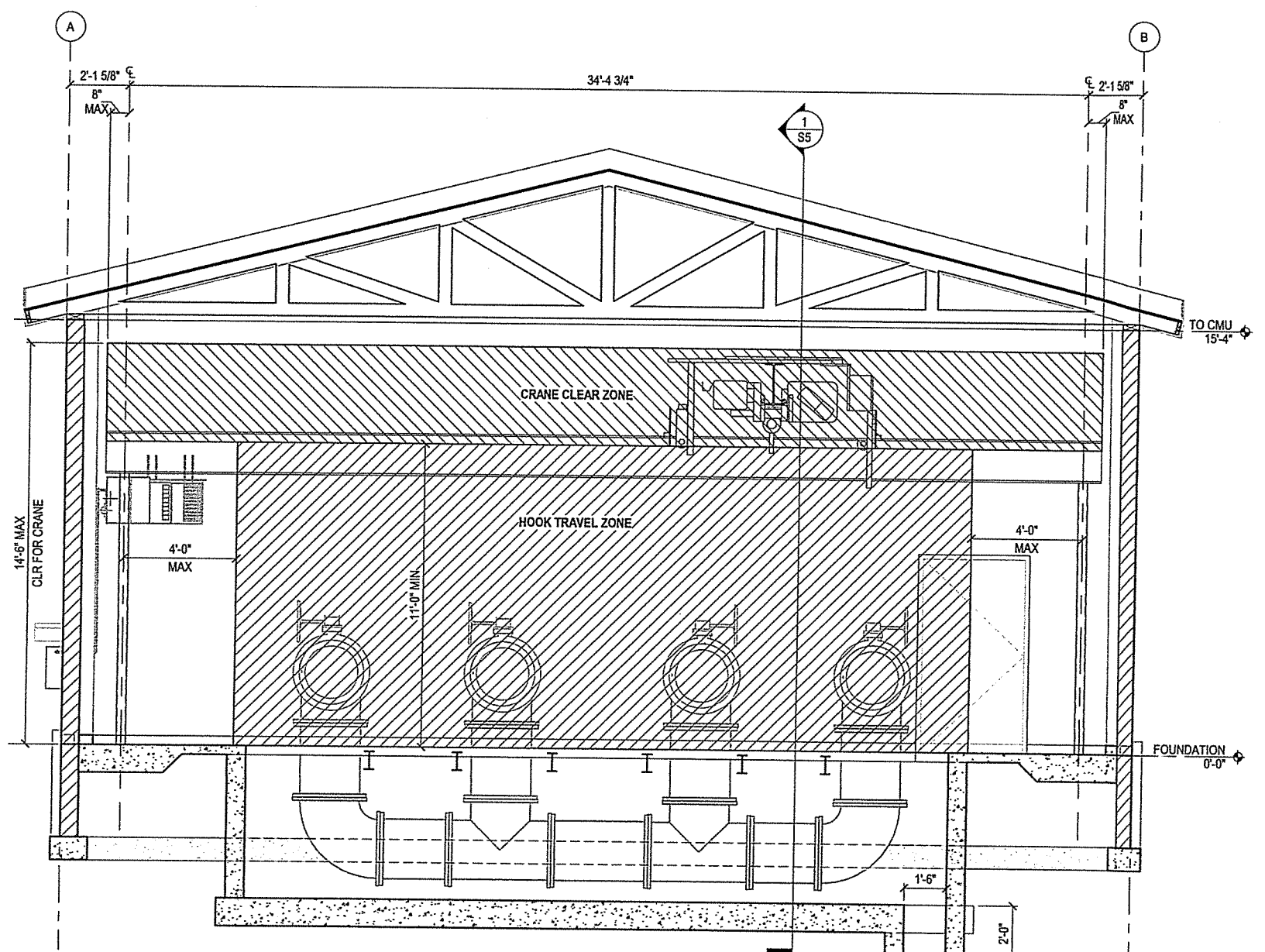
GLENN SQUARE PRV FACILITY
 FOUNDATION & ROOF FRAMING PLANS

HORIZ SCALE: N/A
 VERT SCALE: N/A
 DATE: 05/19/21
 GRID: N/A
 PROJ. ID.: WW.00102

S4 of S8
 SHEET



1 FRAMING SECTION
SCALE: 3/8" = 1'-0"



2 FRAMING SECTION
SCALE: 3/8" = 1'-0"

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE | |
|----------------|----|---|------------------|---------|------|---|----|-----------------|-------------|
| DATA | BY | CHECKED BY | DATE | REV | DATE | DESCRIPTION | BY | DATE | DESCRIPTION |
| BASE | TS | MJ | TELEPHONE | — | — | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | — | — | CABLE TV | — | — | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | — | — | | | | |
| STORM SEWER | TS | MJ | DESIGN | MEH | NJC | | | | |
| WATER | TS | MJ | QUANTITIES | MEH | NJC | | | | |
| GAS | RB | NIL | MUN. FINAL CHECK | — | — | | | | |

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

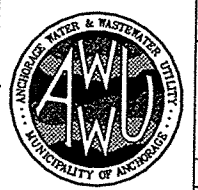
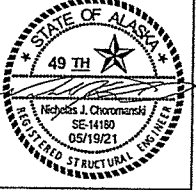
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 COMPANY: _____
 BY: _____ TITLE: _____
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REUSE OF DOCUMENTS

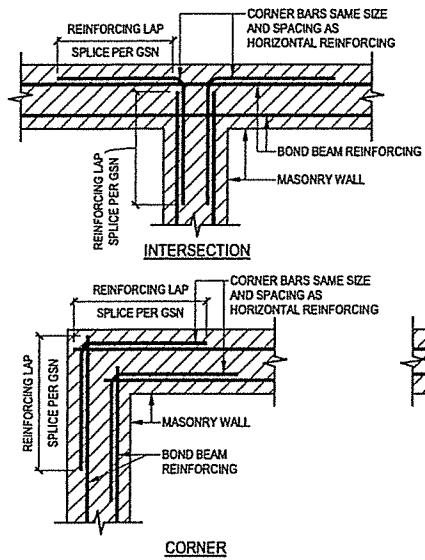
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY
 GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY FRAMING SECTIONS

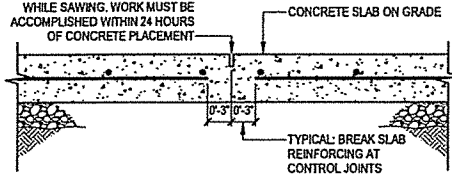
HORIZ SCALE: N/A DATE: 05/19/21 GRID: _____
 VERT SCALE: N/A
 PROJ. ID.: VV.00102 SHEET 55 of 58



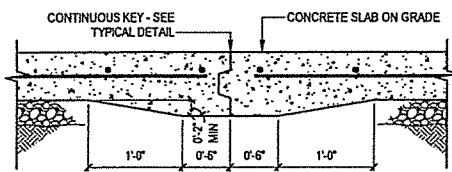
1 TYPICAL MASONRY REINFORCING AT WALLS
 SCALE: NTS

10332.00 - 1 - R18

GENERAL NOTES:
 A. KEYED JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING PLACEMENT UNLESS SPECIFICALLY NOTED ON THE PLANS. "TOOL WET JOINT", "SIP STRIP", ETC. SHALL MATCH SAWCUT REQUIREMENTS.
 B. SEE GSN FOR JOINT SPACING SPECIFICATIONS.



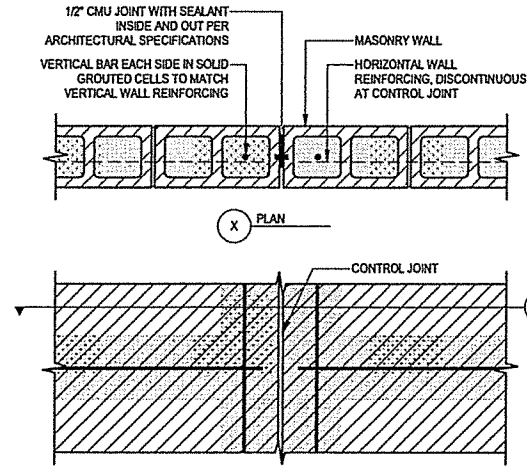
SAW CUT JOINT



KEYED JOINT

5 TYPICAL CONTROL JOINTS IN CONCRETE SLAB ON GRADE
 SCALE: NTS

10332.00 - 5 - R18

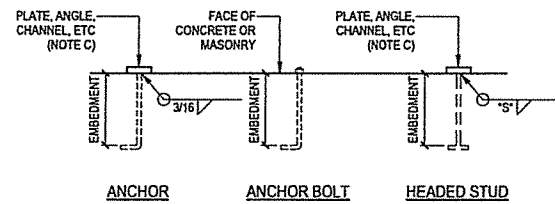


2 TYPICAL CONTROL JOINT IN MASONRY WALL
 SCALE: NTS

10332.00 - 2 - R18

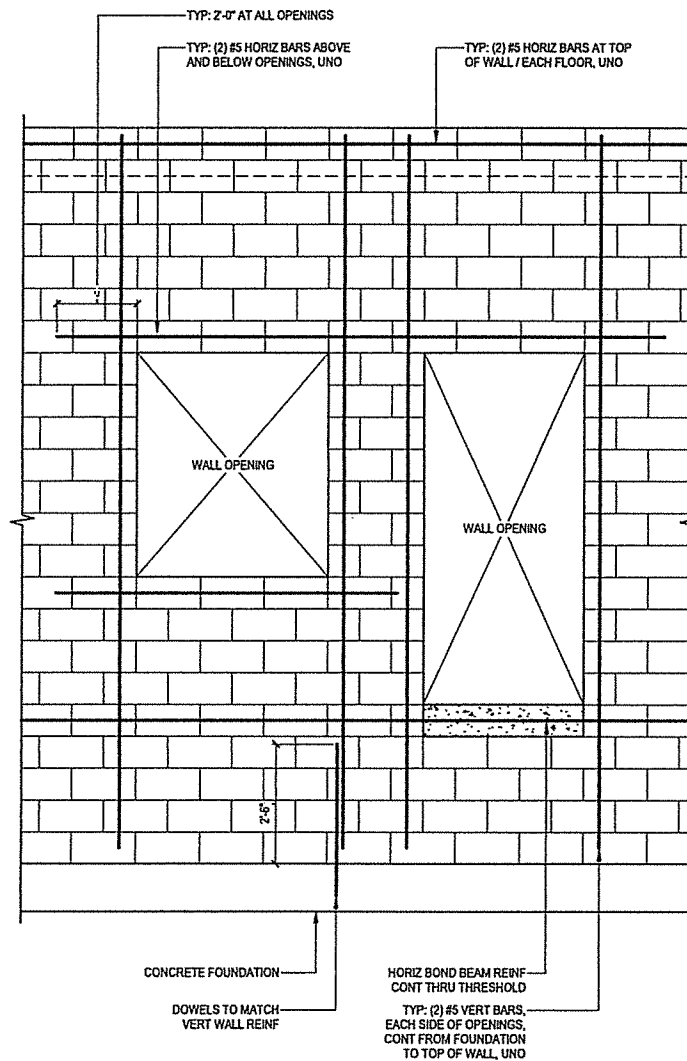
GENERAL NOTES:
 A. PROVIDE ANCHORS, ANCHOR BOLTS, AND HEADED STUDS PER THIS SCHEDULE, UNO ON PLANS OR DETAILS.
 B. SCHEDULE APPLIES TO ANCHORS IN CONCRETE AND MASONRY.
 C. THICKNESS OF DRYPACK DOES NOT APPLY TOWARDS EMBEDMENT.

| ANCHOR DIAMETER | VERT BOLT EMBEDMENT LENGTH | HORIZ BOLT EMBEDMENT LENGTH | HEADED STUD FILLET WELD SIZE, "S" |
|-----------------|----------------------------|-----------------------------|-----------------------------------|
| 1/2" | 7" | 4" | 1/4" |
| 5/8" | 7" | 4" | 5/16" |
| 3/4" | 7" | 5" | 5/16" |
| 7/8" | 8" | 6" | 5/16" |
| 1" | 9" | 7" | 3/8" |
| 1 1/8" | 10" | 8" | — |
| 1 1/4" | 11" | 9" | — |



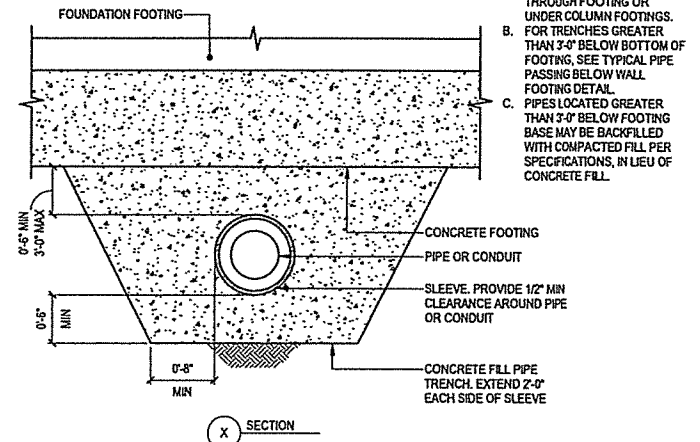
6 TYPICAL CAST-IN-PLACE ANCHOR, ANCHOR BOLT AND HEADED STUD SCHEDULE
 SCALE: NTS

10332.00 - 6 - R18



3 TYPICAL MASONRY WALL OPENING REINFORCING
 SCALE: NTS

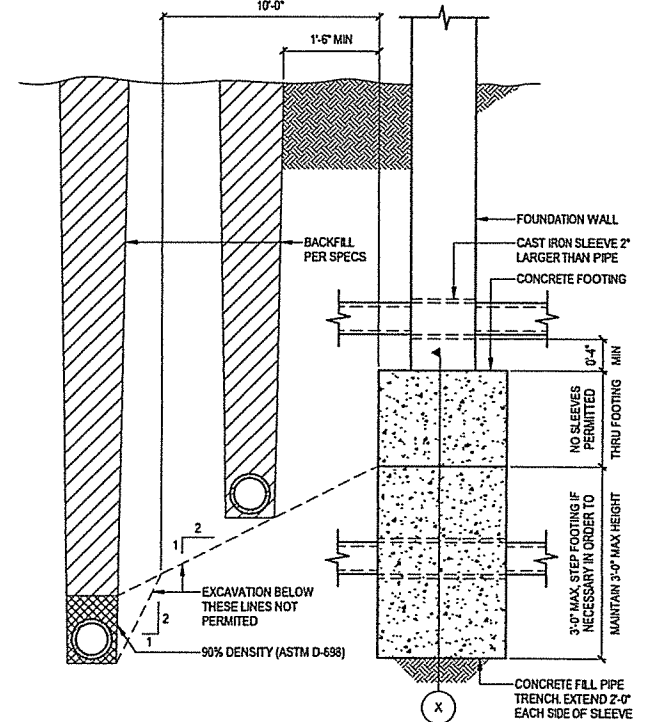
10332.00 - 3 - R18



4 TYPICAL PIPE THROUGH FOUNDATION WALL AND TRENCH
 SCALE: NTS

10332.00 - 4 - R18

GENERAL NOTES:
 A. NO PIPE SHALL PASS THROUGH FOOTING OR UNDER COLUMN FOOTINGS.
 B. FOR TRENCHES GREATER THAN 3'-0" BELOW BOTTOM OF FOOTING, SEE TYPICAL PIPE PASSING BELOW WALL FOOTING DETAIL.
 C. PIPES LOCATED GREATER THAN 3'-0" BELOW FOOTING BASE MAY BE BACKFILLED WITH COMPACTED FILL PER SPECIFICATIONS, IN LIEU OF CONCRETE FILL.



| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE HORIZ SCALE: N/A VERT SCALE: N/A | |
|----------------|----------|---|------------------|-------|------|---|----|--|-------------|
| DATA | DRAWN BY | CHECKED BY | DATE | REV | DATE | DESCRIPTION | BY | DATE | DESCRIPTION |
| BASE | TS | MJ | TELEPHONE | — | — | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | — | — | CABLE TV | — | — | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | — | — | | | | |
| STORM SEWER | TS | MJ | DESIGN | MEH | NJC | | | | |
| WATER | TS | MJ | QUANTITIES | MEH | NJC | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | — | — | | | | |

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

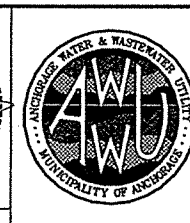
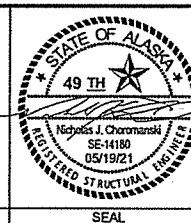
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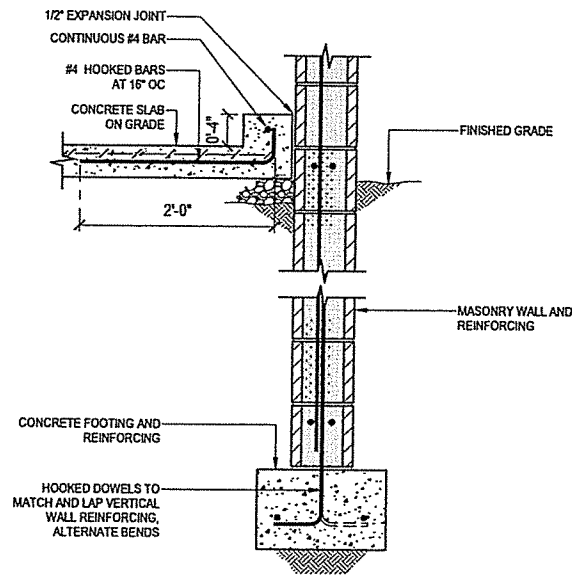


MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

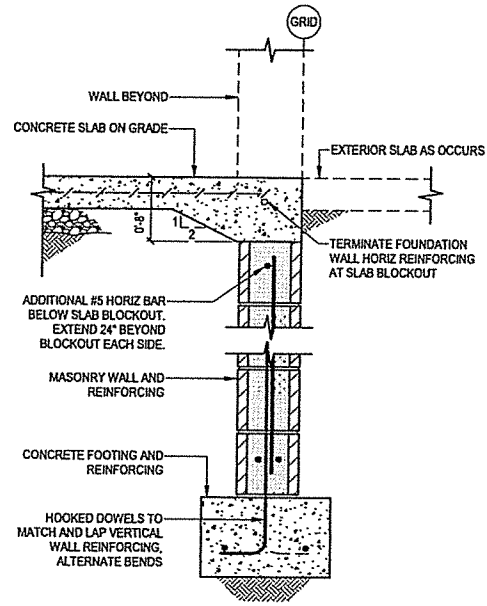
GLENN SQUARE PRV FACILITY TYPICAL DETAILS

HORIZ SCALE: N/A DATE: 05/19/21 GRID: N/A SHEET 56 of 58
 VERT SCALE: N/A PROJ. ID.: WW.00102 SHEET



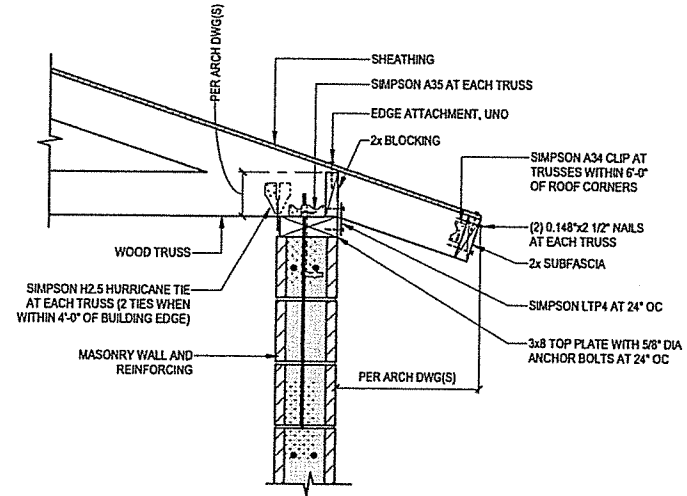
1 MASONRY WALL AT CONCRETE FOOTING
SCALE: NTS

10332.00 - 1 - R18



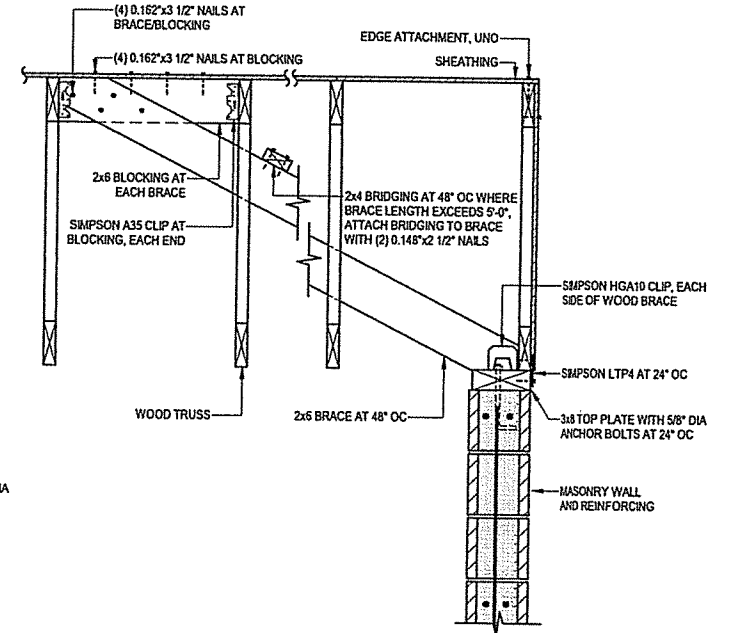
2 WALL OPENING AT CMU FOUNDATION
SCALE: NTS

10332.00 - 2 - R18



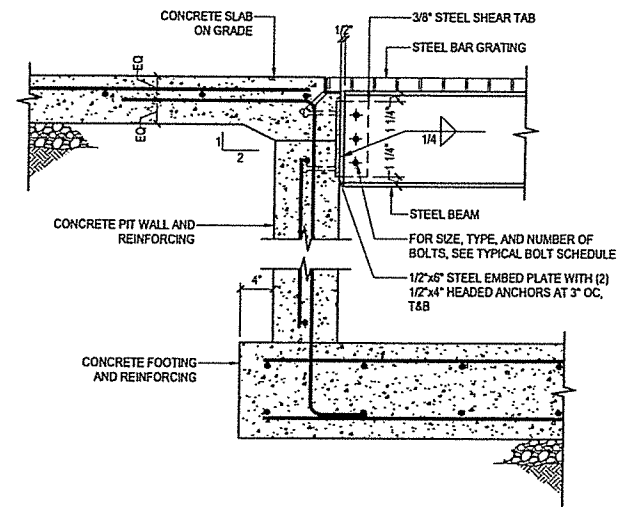
3 WOOD TRUSS AT MASONRY WALL
SCALE: NTS

10332.00 - 3 - R18

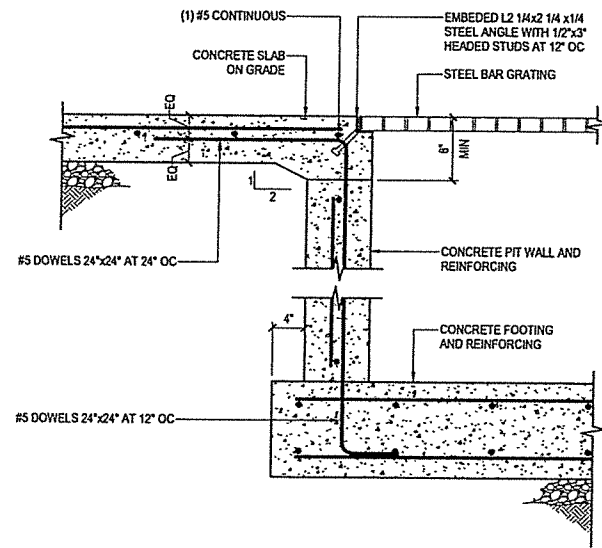


4 WOOD TRUSS AT MASONRY WALL
SCALE: NTS

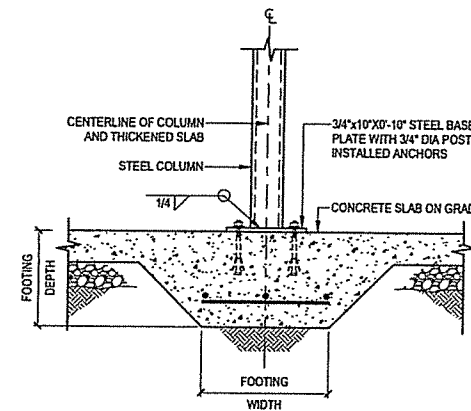
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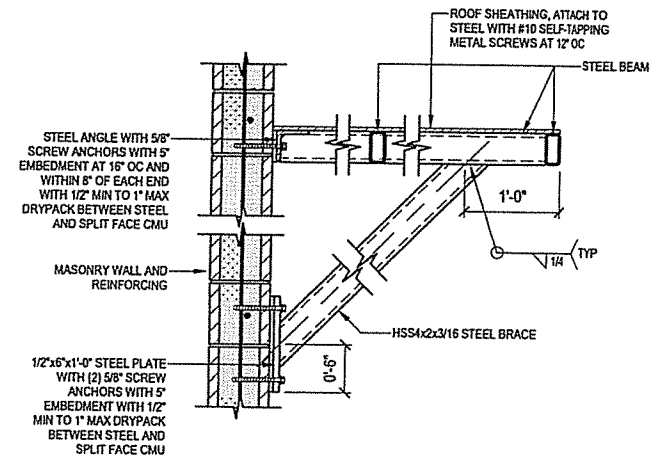
5 STEEL BEAM AT CONCRETE PIT
SCALE: NTS



6 CONCRETE PIT
SCALE: NTS



7 STEEL COLUMN AT THICKENED CONCRETE SLAB
SCALE: NTS



8 STEEL CANOPY AT MASONRY WALL
SCALE: NTS

10332.00 - 8 - R18

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" = 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE | |
|----------------|----------|---|------------------|---------|------|---|----|-----------------|-------------|
| DATA | DRAWN BY | CHECKED BY | DATE | REV | DATE | DESCRIPTION | BY | DATE | DESCRIPTION |
| BASE | TS | MJ | TELEPHONE | | | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | | | CABLE TV | | | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | | | | | | |
| STORM SEWER | TS | MJ | DESIGN | MEH | NJC | | | | |
| WATER | TS | MJ | QUANTITIES | MEH | NJC | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | | | | | | |
| PLAN CHECK | | | | | | | | | |
| REVISIONS | | | | | | | | | |

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

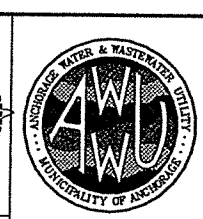
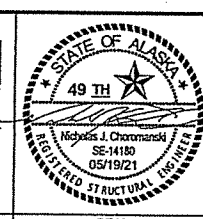
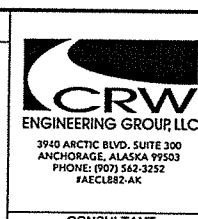
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BY: _____ DATE: _____

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

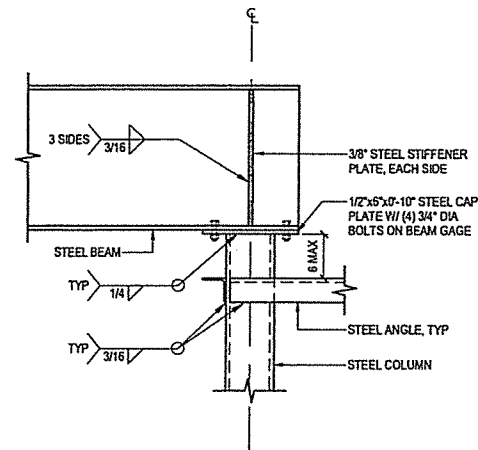
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COMPANY: _____
BY: _____ TITLE: _____
DATE: _____

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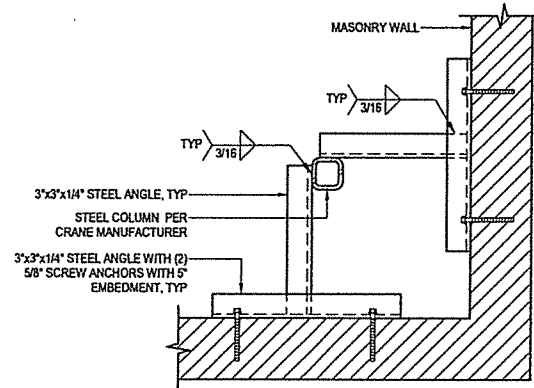
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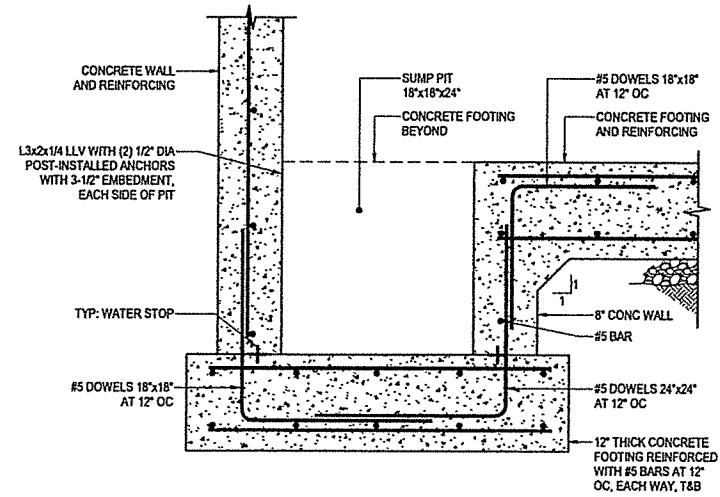
| | | | |
|--|----------------|----------|----------------|
| MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY | | | |
| GLENN SQUARE PRV FACILITY | | | |
| GLENN SQUARE PRV FACILITY FOUNDATION & FRAMING DETAILS | | | |
| HORIZ SCALE: N/A | DATE: 05/19/21 | GRID: NA | SHEET 57 of 58 |
| PROJ. ID.: WW.00102 | | | |



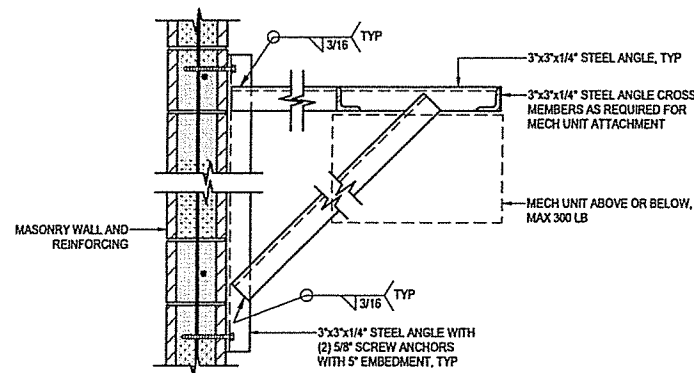
1 STEEL BEAM AT STEEL COLUMN
SCALE: NTS



2 STEEL BRACE AT STEEL COLUMN
SCALE: NTS



3 CONCRETE SUMP PIT
SCALE: NTS



4 TYP MECH UNIT SUPPORT AT MASONRY WALL
SCALE: NTS

| VERIFY SCALE | | THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. | | 0" — 1" | | IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. | | FULL SIZE SCALE | |
|----------------|------|---|------------------|---------|-----|---|------|-----------------|-------------|
| DATA | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| BASE | TS | MJ | TELEPHONE | — | — | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | MJ | | | | |
| PROFILE | — | — | CABLE TV | — | — | | | | |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | — | — | | | | |
| STORM SEWER | TS | MJ | DESIGN | MEH | NJC | | | | |
| WATER | TS | MJ | QUANTITIES | MEH | NJC | | | | |
| GAS | RB | ML | MUN. FINAL CHECK | — | — | | | | |

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

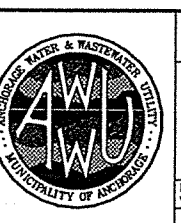
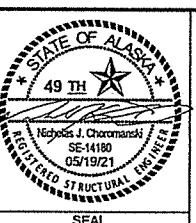
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 CONTRACTOR: _____
 BY: _____ TITLE: _____
 DATE: _____

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

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 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY
FRAMING DETAILS

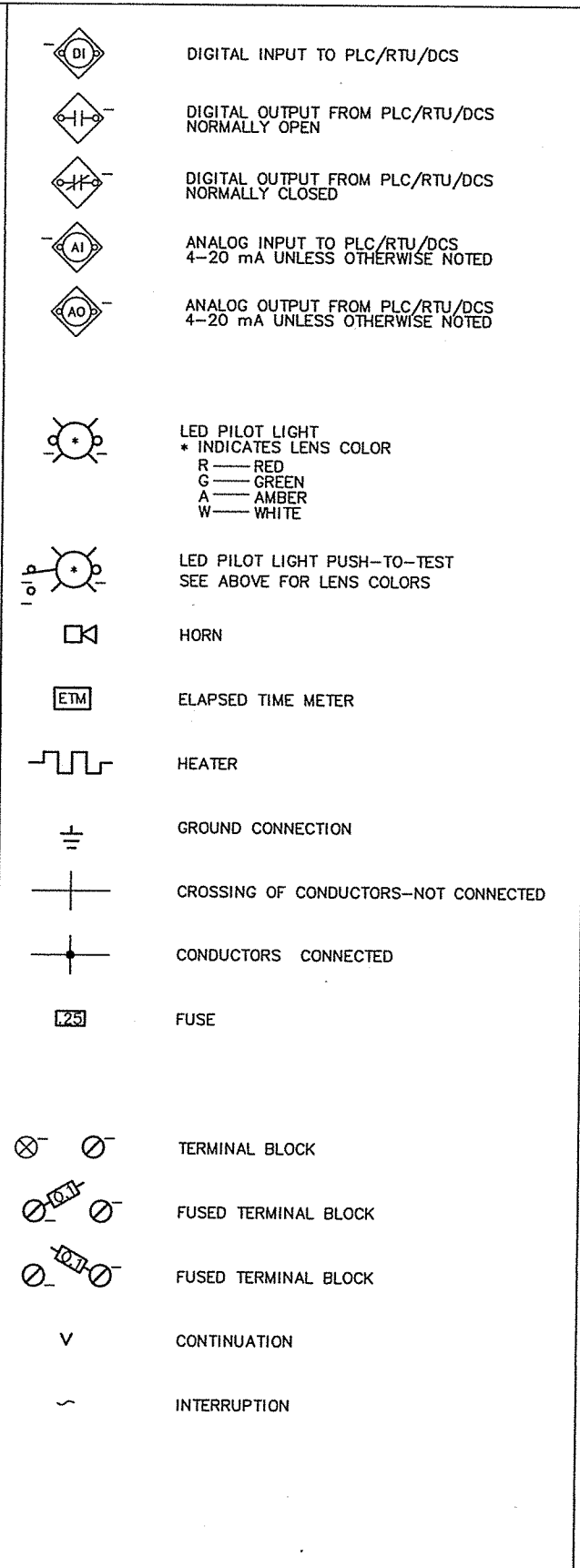
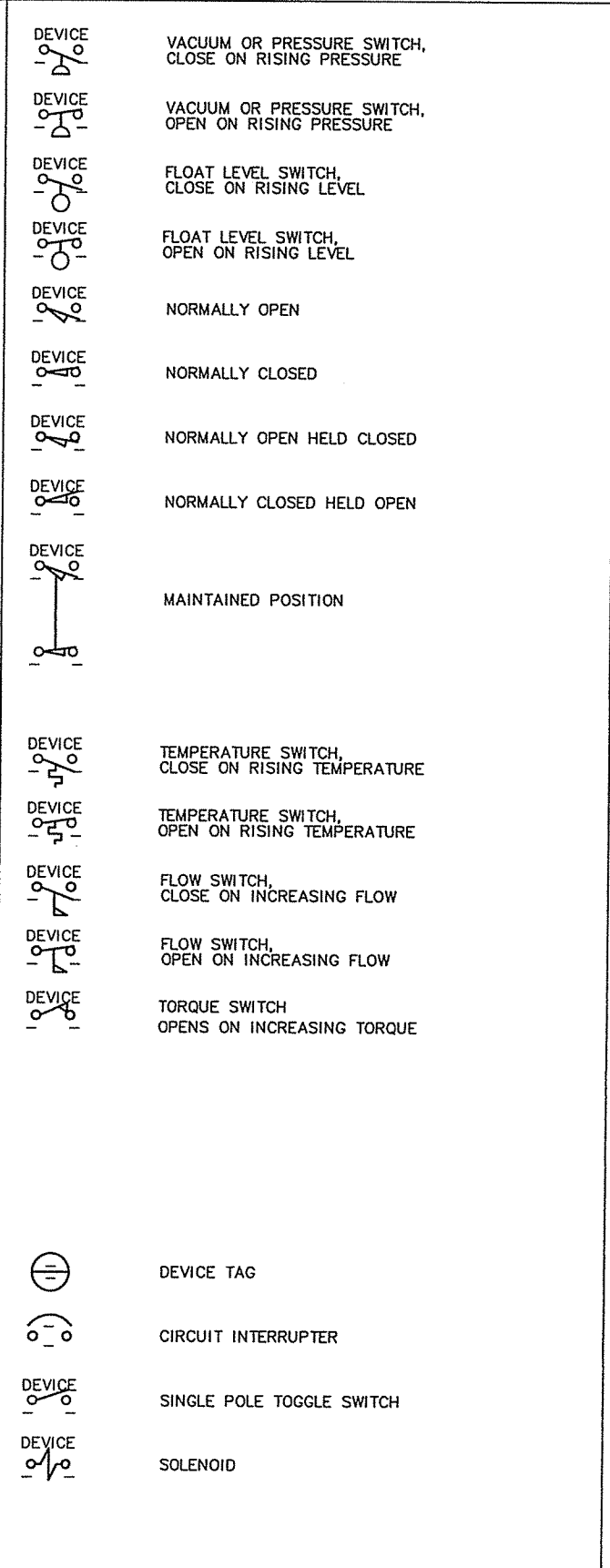
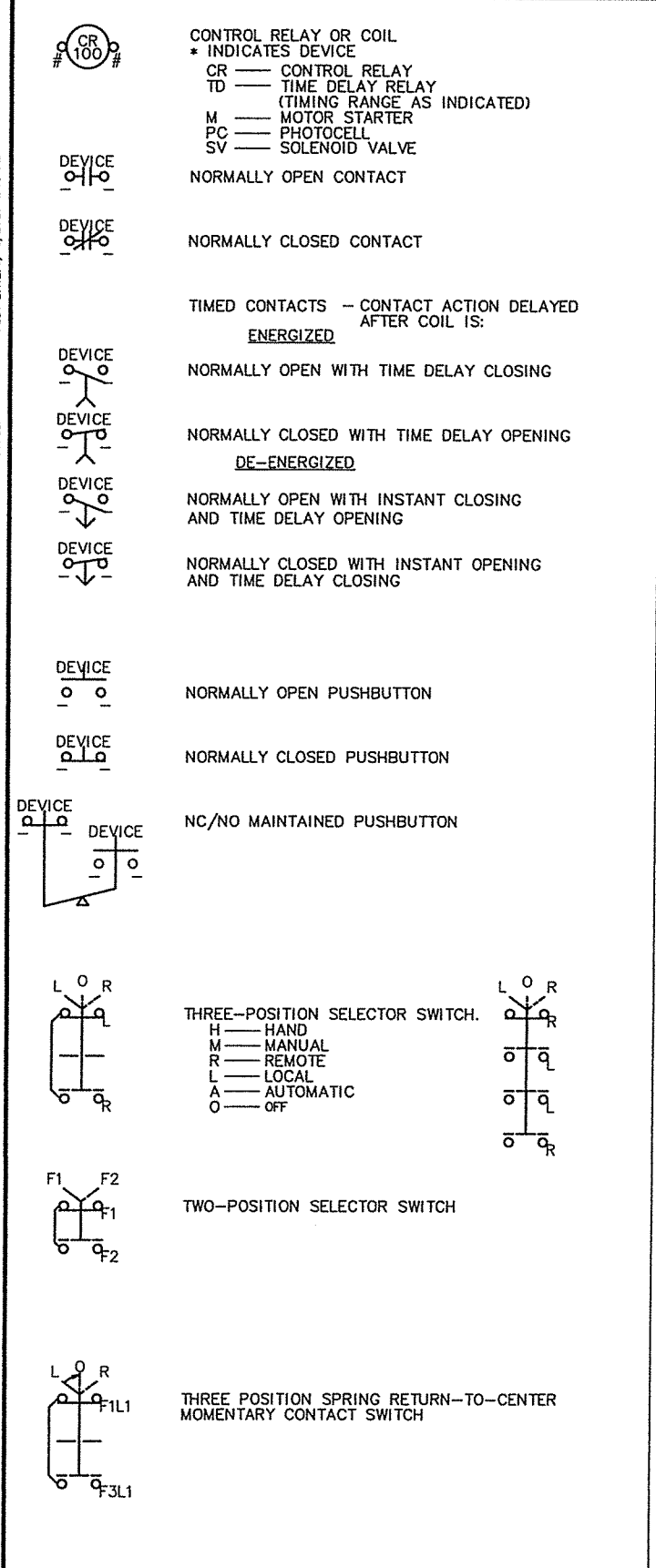
HORIZ SCALE: N/A DATE: 05/19/21 GRID: _____
 VERT SCALE: N/A PROJ. ID.: WW.00102 SHEET 58 of 58

SCHEMATIC DIAGRAM

PLOT DATE: 5/19/2021 4:40 PM

PLOT SCALE:

ACAD FILE: J:\Jobs\10337.00 Glenn Square PRV\00 CAD\01 Working Set\Electrical\10337.00 EGI - Electrical Legend.dwg



VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" — 1"

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

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

| DATA | DATE | BY | DESCRIPTION | BY |
|----------------|------|-----|------------------|-----|
| BASE | TS | MJ | TELEPHONE | --- |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS |
| PROFILE | --- | --- | CABLE TV | --- |
| SANITARY SEWER | TS | MJ | TRAFFIC SIGNAL | --- |
| STORM SEWER | TS | MJ | DESIGN | DJ |
| WATER | TS | MJ | QUANTITIES | DJ |
| GAS | RB | ML | MUN. FINAL CHECK | --- |

PLAN CHECK

REVISIONS

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

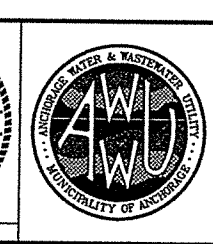
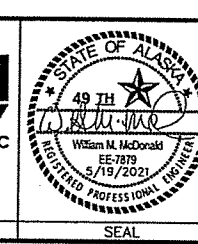
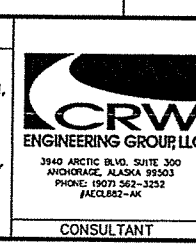
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 DATE: _____

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MUNICIPALITY OF ANCHORAGE
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GLENN SQUARE PRV FACILITY

SCHEMATIC LEGEND

HORZ SCALE: N/A
 VERT SCALE: N/A
 DATE: 5/19/21
 GRID: SW234-35
 PROJ. ID.: WW.00102

EG2 of EGS
 SHEET

AWWU PLAN SET NO. 11131

SCHEDULE: ALL

PLOT DATE: 5/18/2021 4:40 PM

PLOT SCALE:

ACAD FILE: J:\webData\10337.00\Gen Source PRV\00 CAD\01 Working Set\03 Electrical\10337.00 EGI - Electrical Legend.dwg

ABBREVIATIONS

A AMPERE, AUTOMATIC
AC ALTERNATING CURRENT
AF CIRCUIT BREAKER FRAME SIZE
AM AMMETER
ANN ANNUNCIATOR
AS ADJUSTABLE SPEED
ASCC AVAILABLE SHORT CIRCUIT CURRENT
AT AMPERE TRIP
ATS AUTOMATIC TRANSFER SWITCH
AUTO AUTOMATIC
AWG AMERICAN WIRE GAUGE

HID HIGH INTENSITY DISCHARGE
HOA HAND-OFF-AUTOMATIC
HPS HIGH PRESSURE SODIUM
HS HAND SWITCH
HZ HERTZ

PCV PRESSURE CONTROL VALVE
PL PILOT LIGHT
PLC PROGRAMMABLE LOGIC CIRCUIT
PNLBD PANELBOARD
PP POWER PANELBOARD
POS POSITION
POT POTENTIOMETER
PRI PRIMARY
PS POWER SUPPLY
PT POTENTIAL TRANSFORMER
PTZ PAN-TILT-ZOOM
PWR POWER

BATT BATTERY
BC BARE COPPER
BKR BREAKER

IMC INTERMEDIATE METALLIC CONDUIT
INCAND INCANDESCENT
IND INDICATION
INST INSTANTANEOUS
I/O INPUT/OUTPUT
Isc SHORT CIRCUIT CURRENT, AMPS
ISO ISOLATION

R REMOTE
RECPRT RECEPTACLE
RGS RIGID GALVANIZED STEEL
RMS ROOT MEAN SQUARE
RTU REMOTE TERMINAL UNIT
RVSS REDUCED VOLTAGE SOLID STATE

C CONDUIT, CLOSED
CAP CAPACITOR
CB CIRCUIT BREAKER
CGB CORD GRIP BOX CONNECTOR
CKT CIRCUIT
CLF CURRENT LIMITING FUSE
COM COMMON
COMP COMPARTMENT
CP CONTROL PANEL
CPT CONTROL POWER TRANSFORMER
CR CONTROL RELAY, CARD READER
CT CURRENT TRANSFORMER

J JUNCTION BOX

SCCA SHORT CIRCUIT CURRENT AVAIL.
SEL SW SELECTOR SWITCH
SEQ SEQUENCE
SHLD SHIELDED
SIG SIGNAL
SP SPARE
SPDT SINGLE POLE DOUBLE THROW
SSM SOLID STATE METER
SSMP SOLID STATE MOTOR PROTECTOR
SP HTR SPACE HEATER
SPST SINGLE POLE SINGLE THROW
ST, SH SHUNT TRIP
STR STARTER
SW SWITCH
SWBD SWITCHBOARD
SWGR SWITCHGEAR

DCS DISTRIBUTED CONTROL SYSTEM
DISC DISCONNECT
DISTR DISTRIBUTION
DPDT DOUBLE POLE DOUBLE THROW
DPST DOUBLE POLE SINGLE THROW

KA THOUSAND AMPERES
KAIC THOUSAND AMP INTERRUPTING CURRENT
KCMIL THOUSAND CIRCULAR MILS
KVA KILOVOLT AMPERE

TACH TACHOMETER
TB TERMINAL BOX
TERM TERMINAL
TM REPEAT CYCLE TIMER
TD TIME DELAY RELAY
TS TEMPERATURE SWITCH
TWSP TWISTED SHIELDED PAIR

E EMERGENCY
EM ELECTRIC (UTILITY) METER
EMT ELECTRICAL METALLIC TUBING
ENCL ENCLOSURE
ETM ELAPSED TIME METER

L LOCAL
LCP LOCAL CONTROL PANEL
LCS LOCAL CONTROL STATION
LOC LOCAL
LOR LOCAL-OFF-REMOTE
LOS STOP LOCKOUT PUSHBUTTON
LP LIGHTING PANEL
LRA LOCKED ROTOR AMPS
LS LEVEL SWITCH
LTFMC LIQUID TIGHT FLEXIBLE METAL CONDUIT
LTG LIGHTING
LTS LIGHTS

UPS UNINTERRUPTIBLE POWER SUPPLY

F FREQUENCY, FUSE, FIXED
FDR FEEDER
FLA FULL LOAD AMPS
FLUOR FLUORESCENT
FM FREQUENCY METER
FO FIBER OPTIC
FVR FULL VOLTAGE REVERSING
FVNR FULL VOLTAGE NON-REVERSING

M MOTOR CONTACTOR COIL
mA MILLIAMPERE
MCP MOTOR CIRCUIT PROTECTOR
MEA MAIN LUGS ONLY
MLO MUNICIPALITY OF ANCHORAGE
MOA MOTOR OPERATED VALVE
MOV MANUAL MOTOR STARTER
MS MANUAL TRANSFER SWITCH
MTS

GEN GENERATOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER
GND, G INTERRUPTER GROUND
GRC GALVANIZED RIGID METAL CONDUIT

N, NEUT NEUTRAL
NEC NATIONAL ELECTRIC CODE
NP NAMEPLATE
O OPEN, OFF
OL OVERLOAD
PA PUBLIC ADDRESS
PB PUSHBUTTON, PULLBOX
PC PHOTOCCELL
PCM PROCESS CONTROL MODULE
PF POWER FACTOR
PFM POWER FACTOR METER
PH PHASE

H HOT, HAND
HD HEAT DETECTOR
HDPE HIGH-DENSITY POLYETHYLENE
HH HAND HOLE

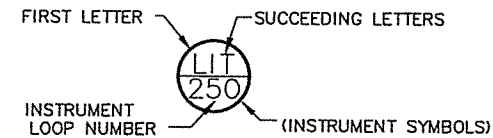
V VOLTAGE, VOLTS
VA VOLT AMPERE
VAR VOLT AMPERE REACTIVE
VFD VARIABLE FREQUENCY DRIVE
VM VOLTMETER
VP VAPOR PROOF
W WATTS, WIRE
WM WATT METER
WP WEATHERPROOF
XFMR TRANSFORMER
XMTR TRANSMITTER
XP EXPLOSION PROOF

DEVICE/INSTRUMENT IDENTIFICATION LETTERS

Table with columns: FIRST-LETTER, SUCCEEDING-LETTERS, MEASURED OR INITIATING VARIABLE, MODIFIER, READOUT OR PASSIVE FUNCTION, OUTPUT FUNCTION, MODIFIER. Includes entries for ANALYSIS, BURNER, COMBUSTION, CONDUCTIVITY, DENSITY, VOLTAGE, FLOW RATE, GAGE, HAND, CURRENT (ELECTRICAL), POWER, TIME, TIME SCHEDULE, LEVEL, MOTOR, TORQUE, PRESSURE, VACUUM, QUANTITY, RADIATION, SPEED, FREQ. SWITCH, TEMPERATURE, MULTI VARIABLE, VIBRATION, MECHANICAL ANALYSIS, WEIGHT, FORCE, INTRUSION, EVENT, STATE OR PRESENCE, POSITION, DIMENSION.

TAG NUMBERS

TYPICAL: LIT-250 - INSTRUMENT IDENTIFICATION OR TAG NUMBER
FORMAT LIT - FUNCTIONAL IDENTIFICATION
L - FIRST-LETTER
IT - SUCCEEDING-LETTERS)
250 - LOOP NUMBER



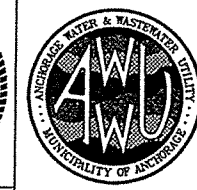
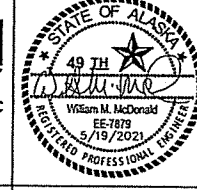
EXPANDED: LIT-250 - TAG NUMBER
FORMAT A - OPTIONAL SUFFIX

VERIFY SCALE table with columns: DATA, DRAWN BY, CHECKED BY, REV, DATE, DESCRIPTION, BY. Includes rows for BASE, TOPOGRAPHY, PROFILE, SANITARY SEWER, STORM SEWER, WATER, GAS, PLAN CHECK, REVISIONS.

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DATE: TITLE:

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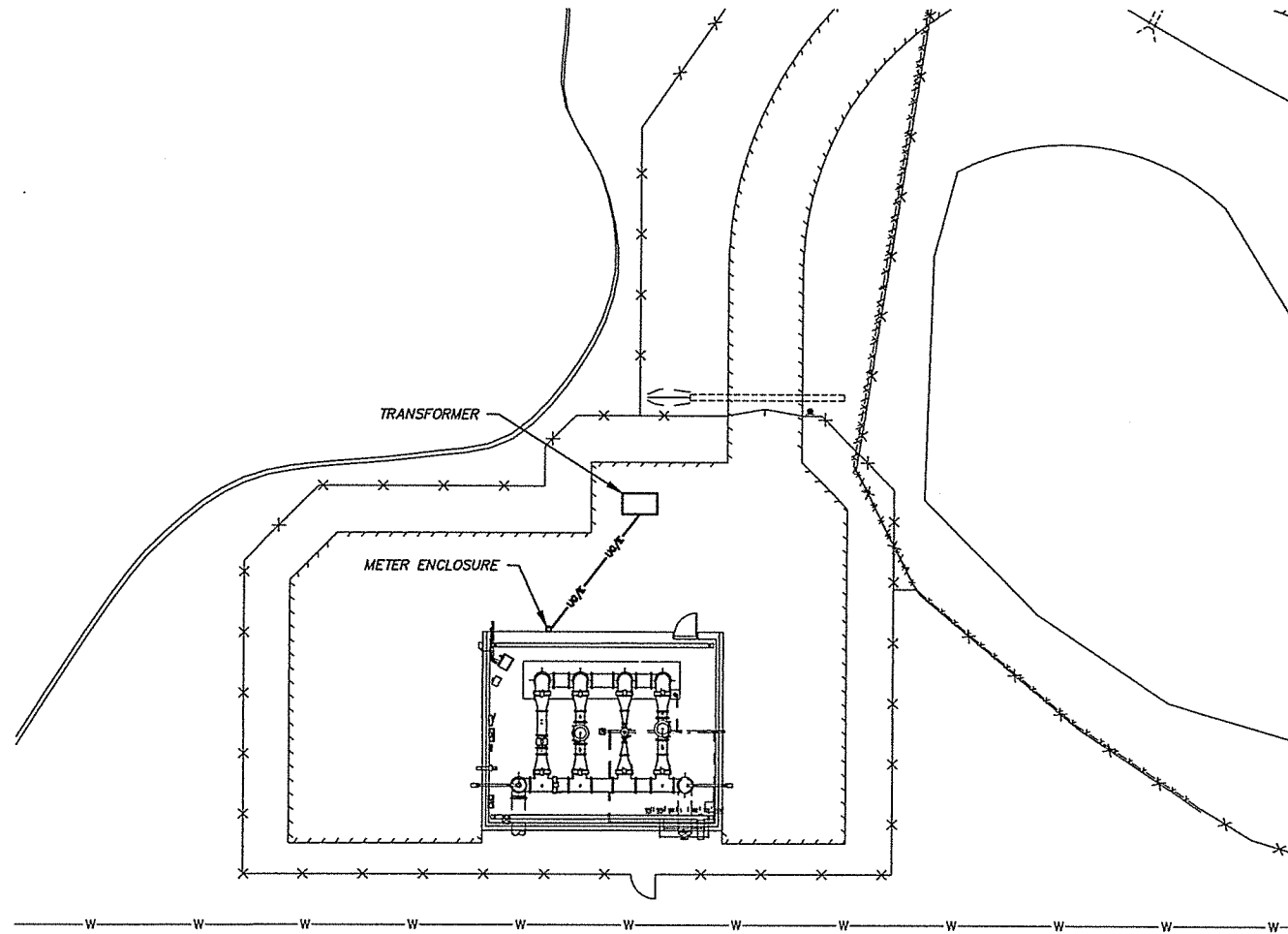
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GLENN SQUARE PRV FACILITY
ELECTRICAL ABBREVIATIONS
HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: 5/19/21
GRID: SW1234-35
PROJ. ID.: WW.00102
SHEET EGS OF EGS

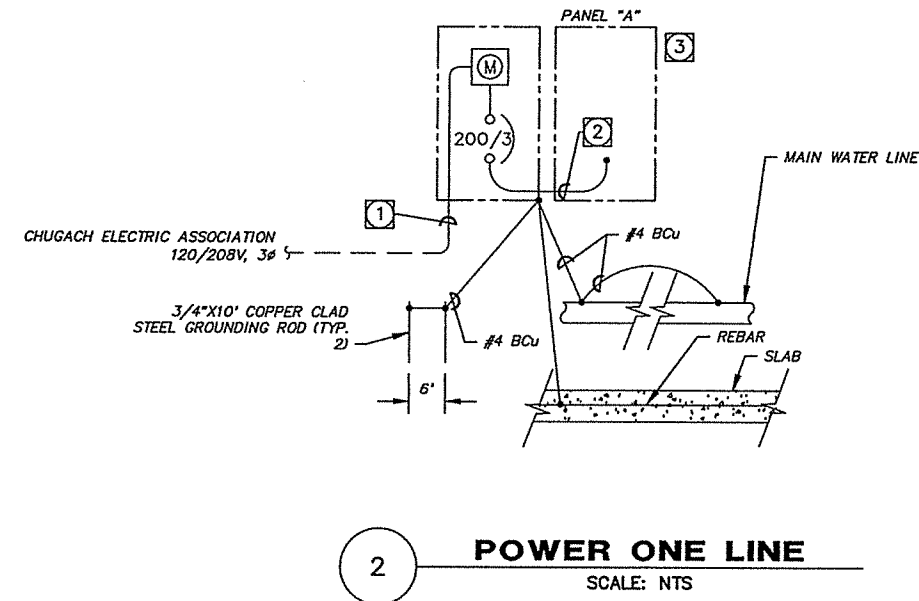
AWWU PLAN SET NO. 11131

SCHEDULE: ALL



1 **ELECTRICAL SITE PLAN**
SCALE: GRAPHIC

0 15 30
SCALE IN FEET



- NOTES**
- 1 COORDINATE SERVICE LATERAL WITH SERVING UTILITY.
 - 2 2" C, (4) #3/0, (1) #4G
 - 3 PROVIDE MAXIMUM AVAILABLE SHORT CIRCUIT AND ARC FLASH PLACARD PER AWWU STANDARDS.

2 **POWER ONE LINE**
SCALE: NTS

| PANEL "A" SCHEDULE | | | | | | | | | | |
|----------------------------|----------|---------------------------------|----------|-----------|------|-----|------------|----------------------------|------------|--------|
| LOCATION: GLENN SQUARE PRV | | | | 208Y/120V | | | 3φ, 4 WIRE | | 10,000 AIC | |
| SERVED FROM: MAIN BREAKER | | | | 200A MLO | | | | | NEMA 12 | |
| POLE # | AMP TRIP | LOAD DESCRIPTION | POLE kVA | Aφ | Bφ | Cφ | POLE Kva | LOAD DESCRIPTION | AMP TRIP | POLE # |
| 1 | 20/1 | LIGHTING, INTERIOR | 0.3 | 5.3 | | | 5.0 | ELECTRIC UNIT HEATER, EH-1 | 60/3 | 2 |
| 3 | 20/1 | RECEPTACLES - EAST SIDE | 0.5 | | 5.5 | | 5.0 | | 4 | |
| 5 | 20/1 | RECEPTACLES - WEST SIDE | 0.4 | | | 5.4 | 5.0 | | 6 | |
| 7 | 20/1 | SCADA PANEL | 0.6 | 0.6 | | | 0.0 | SPARE | | 8 |
| 9 | | SPARE | 0.0 | | 0.1 | | 0.1 | SUPPLY FAN, SF-1 | 20/1 | 10 |
| 11 | 20/1 | GAS UNIT HEATER, GUH-1 | 0.2 | | | 0.9 | 0.7 | DEHUMIDIFIER, DH-1 | 20/1 | 12 |
| 13 | | | 0.1 | 0.4 | | | 0.3 | LIGHTING, EXTERIOR | 20/1 | 14 |
| 15 | 15/3 | POWER RELAY/VENTILATION CONTROL | 0.1 | | 0.7 | | 0.6 | SUMP PUMP SP-1 | 20/1 | 16 |
| 17 | | | 0.1 | | | 0.1 | | | | 18 |
| 19 | | | 3.7 | 3.7 | | | | | | 20 |
| 21 | 80/3 | BRIDGE CRANE | 3.7 | | 3.7 | | | | | 22 |
| 23 | | | 3.7 | | | 3.7 | | | | 24 |
| | | | 10.0 | 10.0 | 10.1 | | | Total kVA = 30.1 kVA | | |
| | | | | | | | | Total Amps @ 208V = 83.5 A | | |

* = GFCI Circuit Breaker

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE: HORIZ SCALE: N/A VERT SCALE: N/A

| DATA | DRAWN BY | CHECKED BY | DATA | DRAWN BY | CHECKED BY | REV | DATE | DESCRIPTION | BY |
|----------------|----------|------------|------------------|----------|------------|-----|------|-------------|----|
| BASE | TS | MJ | TELEPHONE | TS | NJ | | | | |
| TOPOGRAPHY | TS | MJ | ELECTRIC | TS | NJ | | | | |
| PROFILE | | | CABLE TV | | | | | | |
| SANITARY SEWER | TS | NJ | TRAFFIC SIGNAL | | | | | | |
| STORM SEWER | TS | NJ | DESIGN | DJ | WM | | | | |
| WATER | TS | MJ | QUANTITIES | DJ | WM | | | | |
| GAS | RB | ML | WORK FINAL CHECK | | | | | | |

PLAN CHECK

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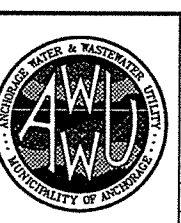
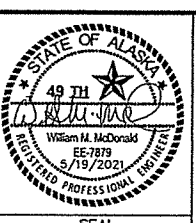
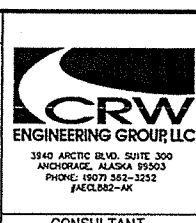
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

GLENN SQUARE PRV FACILITY

GLENN SQUARE PRV FACILITY SITE PLAN

HORIZ SCALE: N/A VERT SCALE: N/A DATE: 5/19/21 GRID: SW1234-35 PROJ. ID.: WW.00102 SHEET E1 of E5