

## GIG HARBOR FIRE AND MEDIC ONE

### GIG HARBOR STATION 51

#### ADDENDUM #01

September 5, 2025

#### TO ALL BIDDERS:

The Bid Documents issued August 15, 2025, for the Project noted above are amended by this Addendum #01. This Addendum serves to clarify, revise, and supersede information in the Project Manual and Drawings.

The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

#### PROJECT MANUAL REVISIONS

##### Division 00 Procurement

- ITEM 1** Section 00113, INVITATION TO BID
- a) Page 1, paragraph starting with "Sealed bids.....": **Revise** link to the district's website to read as "<https://www.gigharborfire.org/about/bids/>
- ITEM 2** Section 003100, INFORMATION AVAILABLE TO BIDDERS (see attached revised section)
- a) Page 1, Part 1 GENERAL, 1.2 REPORTS AND DOCUMENTS, Paragraph A.: **Add** "A.5 Drawing: GHFMO STATION 51, TOPOGRAPHIC SURVEY, SITE CONDITIONS AS OF 7/28/2023", Sheet 1 of 1, dated 8/16/23 by MacKay Sposito".
- b) Page 1, Part 1 GENERAL, 1.2 REPORTS AND DOCUMENTS, Paragraph A.: **Add** "A.6 Report: Construction Stormwater Pollution Prevention Plan, Gig Harbor Fire & Medic One, Station 51, Gig Harbor, WA., by MacKay Sposito, dated September 4, 2025.

##### Architectural

- ITEM 3** Section 095400, SPECIALTY CEILINGS
- a) **Replace** 095400 SPECIALTY CEILINGS in its entirety (see attached).
- ITEM 4** Section 095426, SUSPENDED WOOD CEILINGS
- a) **Replace** 095426 SUSPENDED WOOD CEILINGS in its entirety (see attached).
- ITEM 5** Section 112000, COMMERCIAL EQUIPMENT
- a) **Replace** 112000, COMMERCIAL EQUIPMENT in its entirety (see attached).

#### DRAWING REVISIONS

- ITEM 6** A00.01 – PROJECT INFORMATION, VICINITY MAP, PROJECT DESIGN TEAM: Revise "PROJECT DESIGN TEAM, ELECTRICAL ENGINEER" to "CHUCK HEATON, [caheaton@gftinc.com](mailto:caheaton@gftinc.com)," and "OLEG CHEROV, [okcherov@gftin.com](mailto:okcherov@gftin.com)." Note, phone number remains as listed.
- ITEM 7** C0.00 – COVER SHEET: **Added** sheet C03.03 to sheet index, **revision** to instructions for pre-construction meeting, revision to legend, and **revision** to site plan (see attached).
- ITEM 8** L01.00 – PLANTING PLAN: **Revision** to plant layout at NW and SE corners, revisions to notation along frontage (see attached).
- ITEM 9** L03.00 – IRRIGATION PLAN: **Revision** to irrigation layout at NW corner (see attached).
- ITEM 10** A28.01 – ENLARGED REFLECTED CEILING PLANS

- ITEM 11** A72.01 – CEILING DETAILS  
**ITEM 12** P00.03 – SCHEDULES: **Revise** schedule per PSK-1  
**ITEM 13** E11.01 – ELECTRICAL SITE PLAN: **Revise** the flagpole light location; lighting fixture layout at the fuel canopy; and j-box location for hot box (see attached).  
**ITEM 14** E61.00 – ONE-LINE DIAGRAM: **Revise** feeder and circuit breaker size for the elevator and add feeder size to the feeder schedule (see attached).

## ATTACHMENTS

### 1. DOCUMENTS

- a. Pre-bid Conference sign-in sheet (3 pages)
- b. Section 000010 - Table of Contents (4 pages)
- c. Construction Stormwater Pollution Prevention Plan, Gig Harbor Fire & Medic One, Station 51, Gig Harbor, WA., by MacKay Sposito, dated September 4, 2025. (21 pages)
- d. Section 031000 INFORMATION AVAILABLE TO BIDDERS (1 page)
- e. Section 095400 SPECIALTY CEILINGS (5 pages)
- f. Section 095426 SUSPENDED WOOD CEILINGS (4 pages)
- g. Section 112000 COMMERCIAL EQUIPMENT (3 pages)

### 2. DRAWINGS

- a. Drawing GHFMO STATION 51, TOPOGRAPHIC SURVEY SITE CONDITIONS AS OF 7/28/2023 dated 8/16/23, Sheet 1 of 1, by MacKay Sposito. (1 page)
- b. Sheet C0.00 - COVER SHEET (1 page)
- c. Sheet L01.00 – PLANTING PLAN (1 page)
- d. Sheet L03.00 – IRRIGATION PLAN (1 page)
- e. Sheet A28.01 – ENLARGED REFLECTED CEILING PLANS
- f. Sheet A72.01 – CEILING DETAILS
- g. Sketch PSK-1 – Reference Sheet P00.03 (1 page)
- h. Sheet E11.01 – ELECTRICAL SITE PLAN (1 page)
- i. Sheet E61.00 – ONE-LINE DIAGRAM (1 page)

END OF ADDENDUM

PRE-BID MEETING SIGN-IN SHEET

|                               |                          |
|-------------------------------|--------------------------|
| Project: GHFMO Station 51     | Date: September 4, 2025  |
| Architect: Rice Fergus Miller | Location: Gig Harbor, WA |

| Name / Company                   | Phone          | Email                                     |
|----------------------------------|----------------|-------------------------------------------|
| JOE ALDRICH HARBOR ELECT.        | 360 470 3828   | BIDS@HARBORELECTRIC.NET                   |
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| JAMES ATTERBURY / PEASE CONST.   | 253-584-6606   | estimating@peaseinc.com                   |
| DARWIN CLARKE                    | 253 384 0586   | DARWIN@INSULATION4LESSWA.COM              |
| Jon Lindberg/Bayley Const.       | 206-621-8884   | bidswa@bayley.net                         |
| Sten-Erik Andreassen/Auburn Mech | 253-389-4147   | sten-erik.andreassen@auburnmechanical.com |
| ROTSCH, INC. - GARY DANFORTH     | 360-334-3100   | ESTIMATOR@ROTSCHINC.COM                   |
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| ASSA ABLOY                       | 206 665 1888   | david.hoel@assaabloy.com                  |
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## SECTION 003100 - INFORMATION AVAILABLE TO BIDDERS

### PART 1 GENERAL

#### 1.1 PIERCE COUNTY PREVAILING WAGE RATES:

- A. The following documents are not bound into this Project Manual as an attachment to this Section, for reference only:

1. Prevailing Wage Rates:

Contractor to verify current Prevailing Wage Rates and Benefit Code Key as required per RCW 39.12 and as furnished by the State of Washington Department of Labor and Industries (Employment Standards Section) Department of Labor & Industries website is <http://www.lni.wa.gov/tradeslicensing/prevwage/wagerates/> Contractor to verify apprenticeship requirements as required by Contract Documents. Department of Labor and Industries website is:

<https://fortress.wa.gov/lni/wagelookup/ApprenticeWageLookup.aspx>

Section 2 of WAC 296-127-011 states that for all contracts, except Building Service Maintenance Contracts, the prevailing Wage Rates which are in effect on the date when the bids by the Prime Contractor are required to be submitted to the Contract Awarding Public Agency are the prevailing wage rates which must be paid for the duration of the contract.

#### 1.2 REPORTS AND DOCUMENTS

- A. The following survey reports and documents that include information on existing conditions at the Project site are bound into this Project Manual as an attachment to this Section.

1. Report: Geotechnical Evaluation, proposed Fire Station 51, by Cobalt Geosciences LLC, dated October 30, 2023.
2. Report: Geotechnical Addendum, proposed Fire Station 51, by Cobalt Geosciences LLC, dated July 9, 2024.
3. Report: Regulated Material Survey, Gig Harbor Fire & Medic One Fire Station 51, by Migizi Group, Inc, dated November 28, 2023.
4. Report: 2024 Asarco Tacoma Smelter Plume Soil Investigation, Gig Harbor Fire & Medic One Fire Station 51, 6711 Kimball Dr Gig Harbor, Washington, by Pioneer Technologies Corporation, dated July 25, 2024.
5. Drawing: GHFMO STATION 51, TOPOGRAPHIC SURVEY SITE CONDITIONS AS OF 7/28/2023 dated 8/16/23, Sheet 1 of 1, by MacKay Sposito.
6. Report: Construction Stormwater Pollution Prevention Plan, Gig Harbor Fire & Medic One, Station 51, Gig Harbor, WA., by MacKay Sposito, dated September 4, 2025.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION



# **Construction Stormwater Pollution Prevention Plan**

Gig Harbor Fire & Medic One  
Station 51  
Gig Harbor, WA

September 4, 2025

**PREPARED FOR:**

Gig Harbor Fire & Medic One  
Pierce County Fire District 5  
Contact: John Johnson  
Phone: (253) 851-3111

**CLIENT:**

Gig Harbor Fire & Medic One  
Pierce County Fire District 5  
10222 Bujacich Rd NW  
Gig Harbor, WA 98332

**MacKay Sposito**  
**Project Number: 18174**

**Prepared by:**  
Eric Pilcher, PE

**Project Engineer's Certification:**

"I hereby state that this Construction Stormwater Pollution Prevention Plan for Gig Harbor Fire & Medic Station 51 has been prepared by me or under my supervision and meets the standard of care and expertise which is usual and customary in this community for professional engineers. I understand that the City of Gig Harbor does not and will not assume liability for the sufficiency, suitability, or performance of Construction SWPPP BMPs prepared by me."



# Construction Stormwater Pollution Prevention Plan (SWPPP)

**FOR:**

Gig Harbor Fire & Medic One

**PREPARED FOR:**

Gig Harbor Fire & Medic One  
Pierce County Fire District 5  
10222 Bujacich Rd NW  
Gig Harbor, WA 98332

**PROJECT SITE LOCATION:**

Quarter 33, Section 8, Township 21 North, Range 2 East, Willamette Meridian, Pierce County,  
Washington

**CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL):**

TBD

**SWPPP PREPARED BY:**

Eric Pilcher, PE  
Mackay Sposito  
33810 Weyerhaeuser Way S, Ste. 130  
Federal Way, WA 98001  
(253) 205-8700

**SWPPP PREPARATION DATE:**

January 22, 2025

**APPROXIMATE PROJECT CONSTRUCTION DATES:**

July 2025 through October 2026

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## 1.0 PROPOSED PROJECT DESCRIPTION

This Construction Stormwater Pollution Prevention Plan has been prepared to support redevelopment of Gig Harbor Fire & Medic One Station 51. The project is located at 6711 Kimball Drive, Gig Harbor, Washington 98332. The site contains 3.79 acres of land on tax parcel 0221083129 located in Section 8, Township 21 North, Range 2 East, Quarter 33, Willamette Meridian. See Figure 1: Vicinity Map. A field survey was prepared in August 2023.

Proposed improvements include the demolition of all existing buildings and pavement and construction of a new 17,700 square foot fire station<sup>1</sup> and construction and/or replacement of 53,880 square feet of asphalt and concrete pavement. The total new plus replaced hard surface area is 71,580 square feet, resulting in a net decrease of 6,420 square feet of new hard surfaces over existing conditions. The total disturbed area is expected to be approximately 2.13 acres.

Under proposed conditions the developed western half of the site is divided into three sub-basins. Basin B-01 encompasses the northwest quarter of the fire station and paved areas. Stormwater runoff is collected and routed through a media filtration system for water quality treatment and then routed to a stormwater chamber system for flow control. The collected runoff will primarily infiltrate; however, an outlet control structure will regulate discharge from larger storms to the existing drainage system within the Kimball Drive right-of-way.

Basin B-02 encompasses the northeast quarter of the fire station and paved areas. Stormwater runoff is collected and routed through a media filtration system for water quality treatment and then routed to a stormwater chamber system for flow control. The collected runoff will primarily infiltrate; however, an outlet control structure will regulate discharge from larger storms to Basin B-03.

Basin B-03 encompasses the south half of the fire station and paved areas. Stormwater runoff is collected and routed through a media filtration system for water quality treatment and then routed to a stormwater chamber system for flow control. The collected runoff will primarily infiltrate; however, an outlet control structure will regulate discharge from larger storms to the existing drainage system within the Kimball Drive right-of-way.

Earthwork activities associated with the new construction are expected to require 1,500 cubic yards of excavated cut and 600 cubic yards of fill. Any surplus of excavated material will be removed from the site. The source of import material is not yet determined.

## 2.0 EXISTING CONDITION

The site contains an existing 12,000 square foot fire station building and 66,000 square feet of asphalt and concrete paving. The total existing onsite hard surface area is 78,000 square feet, which accounts for 47 percent of the site. There is existing landscaping along the frontage with Kimball Drive and both northern and southern boundaries are lined with coniferous trees. The eastern half of the site is undeveloped and is vegetated with coniferous trees, grasses, and ferns.

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<sup>1</sup> Based on building footprint area. The total building area is roughly 21,500 square feet.

The property is bounded by Kimball Drive to the west; tax parcels 0221087001, 0221087013, 0221087014, and 02210870015 to the north; McDonald Avenue to the east; and tax parcel 0221087016 to the south. All bordering tax parcels contain commercial properties.

The existing fire station floor is at elevation 310.33. The site is mostly flat with gentle grades and low spots at existing catch basin locations. The northern boundary has a 3- to 7-foot-tall rockery wall, and the southern boundary has a moderate slope resulting in a 3-foot drop to the adjacent property. The undeveloped eastern half of the site is generally flat with gentle grades and a few depressions. The site does not appear to receive runoff from adjacent properties.

Cobalt Geosciences, LLC has performed subsurface field investigations on the project site and prepared a Geotechnical Report for the project (see Appendix C). Per this report, soils within the project are relatively dense glacial till composed of silt, sand, gravel, and clay which may become impermeable below a certain depth. Groundwater was not observed; however, this may fluctuate with seasonal precipitation and other factors.

### **Wetlands**

There are no wetlands or water bodies noted on the site. The site is not within a 100-year floodplain (per FEMA FIRM Panel No. 53053 C0129 E, eff. 3/7/2017).



**MacKay Sposito**

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FEDERAL WAY, WA 98001  
PHONE (253) 205-8700  
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GIG HARBOR FIRE & MEDIC ONE STATION 51

## VICINITY MAP

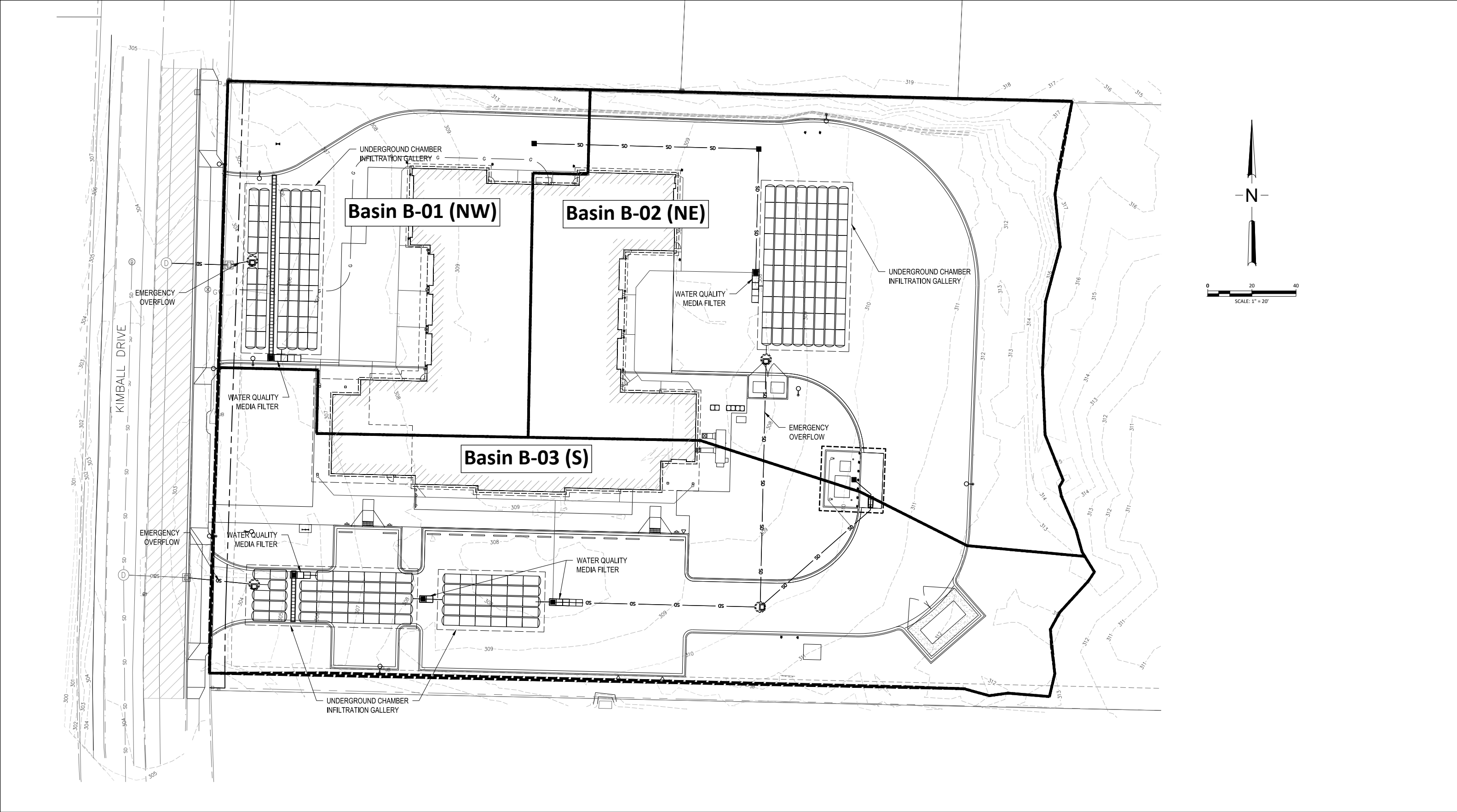
PROJECT NO.: 18174

DRAWN BY: TAS

CHECKED BY: ELP

DATE: AUGUST 2024

SHEET NO. FIGURE 1



### 3.0 THIRTEEN ELEMENTS

The following are standard elements of the Construction SWPPP addressed as relevant to the work to be performed.

#### **Element #1: Preserve Vegetation/Mark Clearing Limits**

Natural vegetation outside of the limit of work shall remain protected during all construction activities (BMP C101). The limit of work shall be marked with a High Visibility Fence (BMP C103). A Silt Fence (BMP C233) shall be provided in areas of fill to reduce the possibility of sediment flowing offsite during construction. High visibility silt fence may be used in place of high visibility fence, provided it meets the criteria for both purposes.

Best Management Practices (BMPs) to be deployed include:

- BMP C101: Preserving Natural Vegetation
- BMP C103: High Visibility Fence
- BMP C233: Silt Fence

#### **Element #2: Establish Construction Access**

The site will be accessed via Kimball Drive. A Stabilized Construction Entrance/Exit (BMP C105) will prevent erosion and keep sediment from being tracked onto the road. If a construction entrance is not providing adequate sediment removal, a Wheel Wash (BMP C106) may be provided. The decision to install a wheel wash shall be made by the contractor responsible for construction activities.

BMPs to be deployed include:

- BMP C105: Stabilized Construction Entrance/Exit

#### **Element #3: Control Flow Rates**

An underground detention system will be constructed as part of the proposed redevelopment. The tributary drainage area for this project is less than 3 acres; therefore, a Sediment Trap (BMP C240) shall be constructed to collect and store sediment during construction.

The sediment trap shall be placed in a non-driveway area along the lower, western edge of the site. Accumulated runoff in all three sub-basins will be channeled, siphoned, or pumped to the sediment trap.

BMPs to be deployed include:

- BMP C240: Sediment Trap

Table 1: Sediment Trap Sizing

|                                                          |              |
|----------------------------------------------------------|--------------|
| <b>Sediment Trap #</b>                                   | <b>ST-01</b> |
| <b>Basin Area (Ac.)</b>                                  | 2.335        |
| <b>Untouched Area (Ac.)</b>                              | 0.205        |
| <b>Construction Area (Ac.)</b>                           | 2.130        |
| <b>Q2 (cfs)</b>                                          | 0.71         |
| <b>Required Water Surface Area<sup>1</sup> (sq. ft.)</b> | 1,477        |
| <b>Design Length (ft.)</b>                               | 58           |
| <b>Design Width (ft.)</b>                                | 26           |
| <b>Design Water Surface Area<sup>1</sup> (sq. ft.)</b>   | 1,508        |
| <b>Design Water Depth (ft)</b>                           | 3.5          |
| <b>Design Freeboard</b>                                  | 1.0          |

**Notes:**

1. Design water surface area is measured at the top of the settling depth for sediment traps.

**Element #4: Install Sediment Controls**

Sediment control BMPs shall be constructed as one of the first steps during clearing and grading. A Silt Fence (BMP C233) shall be provided in areas of fill to reduce the possibility of sediment flowing offsite during construction. A Sediment Trap (BMP C240) shall be constructed to collect and store sediment during construction.

BMPs to be deployed include:

- BMP C233: Silt Fence
- BMP C240: Sediment Trap

**Element #5: Stabilize Soils**

Exposed and unworked soils, including stockpiles, shall be stabilized within 7 days during the dry season (i.e., May 1 – September 30) and within 2 days during the wet season (i.e., October 1 – April 30). In addition, soils shall be stabilized at the end of the shift before a holiday or weekend if needed based on the weather forecast.

All temporary erosion control measures shall remain in place until permanent erosion control measures, such as pavement or asphalt, quarry spalls used as ditch lining, application of thick layers of gravel or mulch, or vegetative cover have been established.

BMPs to be deployed include:

- BMP C120: Temporary and Permanent Seeding
- BMP C121: Mulching
- BMP C123: Plastic Covering
- BMP C125: Topsoiling/Composting
- BMP C130: Surface Roughening
- BMP C140: Dust Control

**Element #6: Protect Slopes**

---

The site is mostly flat with few gentle to moderate slopes. All slopes are designed at 2H:1V slopes or flatter. Velocities produced from slopes will be minimal.

Excavated material shall be placed on the uphill side of trenches, consistent with safety and space considerations.

BMPs to be deployed include:

- BMP C120: Temporary and Permanent Seeding
- BMP C121: Mulching
- BMP C123: Plastic Covering
- BMP C130: Surface Roughening

**Element #7: Protect Drain Inlets**

---

All existing storm drain inlets to remain within and immediately downstream of the construction area shall be protected from sediment-laden runoff. Sediment shall be cleaned and washed from paved areas that are upstream of inlets as needed. Inlets shall be inspected at least weekly and immediately following a storm event. Inlet protection devices shall be removed and replaced in the event that sediment has filled one-third of the available storage.

BMPs to be deployed:

- BMP C220: Storm Drain Inlet Protection

**Element #8: Stabilize Channels and Outlets**

---

No direct discharges to swales are planned; therefore, no BMPs are believed to be necessary. Downstream discharge points shall be monitored after heavy rain events and additional BMPs shall be employed if deemed necessary by the contractor, engineer, or owner.

**Element #9: Control Pollutants**

---

All pollutants including waste material and demolition debris that occur onsite shall be handled and disposed of in a manner that does not cause contamination of stormwater. Woody debris may be chopped and spread onsite. The project does not propose the use of any chemicals, liquid products, petroleum products, or any other materials that have the potential to pose a threat to human health or the environment. The existing onsite fueling tank will be removed and disposed. The project does not propose any application of agricultural chemicals, including fertilizer and/or pesticides.

The project does not propose any maintenance and repair of heavy equipment and vehicles involving oil changes, hydraulic system drain down, solvent and de-greasing cleaning operation, fuel tank drain down and removal, and/or any other activities which may result in discharge or spillage of pollutants to the ground or into the stormwater runoff. Emergency repairs may be performed onsite using temporary plastic placed underneath and, if raining, over the vehicle.

If deployed, wheel wash or tire bath wastewater shall be collected and discharged offsite at an approved treatment facility or discharged to sanitary sewer at an approved location. The site does not propose the use of a wheel wash unless the contractor finds it necessary. If one is required, the contractor shall coordinate with Pierce County Environmental Services prior to installation.

BMPs shall be used to prevent or treat contamination of stormwater runoff by pH modifying sources including, but not limited to, bulk cement, cement kiln dust, fly ash, new concrete washing and curing waters, waste streams generated from concrete grinding and sawing, exposed aggregate processes, and concrete pumping and mixer without washout waters. Stormwater discharge shall not cause or contribute to a violation of the water quality standard for pH in the receiving water.

Construction sites shall adjust pH of stormwater if necessary to prevent violation of water quality standards. Project must obtain written approval from the Department of Ecology prior to using chemical treatment other than CO<sub>2</sub>, dry ice, or food grade vinegar to adjust pH.

BMPs to be deployed include:

- BMP C151: Concrete Handling
- BMP C152: Sawcutting and Surfacing Pollution Prevention
- BMP C153: Material Delivery, Storage and Containment
- BMP C154: Concrete Washout Area

---

**Element #10: Control Dewatering**

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Dewatering may be controlled by one or more of the following options:

- Dewatering water that has characteristics similar to stormwater runoff at the site may be discharged into a controlled conveyance system before discharge to a BMP sediment trap or temporary sediment pond.
- Clean, non-turbid dewatering water may be discharged to systems tributary to or directly into surface water of the state, as specified in Element #8, provided the dewatering flow does not cause erosion or flooding of receiving waters. Do not route clean dewatering waters through BMP sediment traps or temporary sediment ponds.
- Highly turbid or contaminated dewatering water from construction equipment operation, clamshell digging, concrete tremie pour, or work inside a cofferdam, shall be handled separately from stormwater.
- Other dewatering treatment or disposal options may include:
  - Infiltration.
  - Transport offsite in a vehicle, such as a vacuum flush truck, for legal disposal in a manner that does not pollute waters of the state.
  - Ecology-approved onsite chemical treatment or other suitable treatment technologies.
  - Sanitary or combined sewer discharge with local sewer authority approval, if there is no other option.
  - Use of a sedimentation bag with discharge to a ditch or swale for small volumes of localized dewatering.

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**Element #11: Maintain BMPs**

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All temporary and permanent erosion and sediment control BMPs shall be maintained and repaired as needed to assure continued performance of their intended function. Maintenance and repair shall be conducted in accordance with BMP specifications.

All temporary erosion and sediment control BMPs shall be removed within 30 days after final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment shall be

removed or stabilized onsite. Disturbed soil resulting from removal of BMPs or vegetation shall be permanently stabilized.

BMPs to be deployed include:

- BMP C150: Materials on Hand
- BMP C160: Certified Erosion and Sediment Control Lead

#### **Element #12: Manage the Project**

GHFMO Station 51 shall be constructed in a single phase. Revegetation of exposed areas and maintenance of that vegetation shall be an integral part of the clearing and grading activities.

More than 1 acre of total area will be disturbed; therefore, site inspection must be conducted by a Certified Erosion and Sediment Control Lead (CESCL). The CESCL shall:

- Examine stormwater visually for the presence of suspended sediment, turbidity, discoloration, and oil sheen.
- Evaluate the effectiveness of BMPs and determine if it is necessary to install, maintain, or repair BMPs to improve the quality of stormwater discharges.
- Review the SWPPP for compliance with the 13 construction SWPPP elements and make appropriate revisions within 7 days of an inspection, if necessary.
- Immediately begin the process of fully implementing and maintaining appropriate source control and/or treatment BMPs as soon as possible, addressing the problems within 10 days of an inspection, if necessary. If installation of necessary treatment BMPs is not feasible within 10 days, the inspector may request an extension within the initial 10-day response period.
- Document BMP implementation and maintenance in the site logbook.
- Inspect all areas disturbed by construction activities, all BMPs, and all stormwater discharge points at least once every calendar week and within 24 hours of any discharge from the site. The inspector may reduce the inspection frequency for temporary stabilized, inactive sites to once every calendar month during the dry season.

Clearing and grading activities for developments shall be permitted only if conducted pursuant to an approved site development plan that establishes permitted area of clearing, grading, cutting, and filling. When the permitted clearing and grading areas are established, consideration shall be given to minimizing removal of existing trees and minimizing disturbance/compaction of native soils except as needed for construction purposes. Critical or sensitive areas, buffers, native growth protection easements, and/or tree detention areas may be required by local jurisdiction and shall be delineated prior to land disturbance.

Seasonal Work Limitations:

- From October 1 through April 30, clearing, grading, and other soil disturbing activities shall only be permitted if shown to the satisfaction of the county that silt-laden runoff will be prevented from leaving the site through a combination of the following:
  - Site conditions, including existing vegetative coverage, slope, soil type, and proximity to receiving waters.
  - Limitations on activities and the extent of disturbed areas.
  - Proposed ESC measures.

- Based on the information provided and/or local weather conditions, the county may expand or restrict the seasonal limitation of onsite disturbance. The county will take enforcement action, such as a notice of violation, administrative order, penalty, or stop-work order under the following circumstances:
  - If, during any construction activity or soil disturbance during the seasonal limitation period, sediment leaves the construction site causing a violation of the surface water quality standard.
  - If clearing and grading limits or ESC measures shown in the approved plan are not maintained.

The primary project applicant shall evaluate, with input from utilities and other contractors, the stormwater management requirements for the entire project, including the utilities, when preparing the Construction SWPPP.

This SWPPP shall be maintained and updated as necessary to provide continued protection. If BMPs shown on the drawings or listed within this SWPPP are not sufficient, additional BMPs shall be deployed. If needed, additional BMPs may be selected from the 2023 Gig Harbor Stormwater Management and Site Development Manual or be site specific.

A copy of this SWPPP (modified as necessary) and copies of all monitoring and inspection logs shall be maintained onsite during construction activities and made available for review by the owner, tenant, engineer, County, and Ecology upon request.

BMPs to be deployed include:

- BMP C150: Materials on Hand
- BMP C160: Certified Erosion and Sediment Control Lead
- BMP C162: Scheduling

#### **Element #13: Protect Low Impact Development BMPs**

---

This project proposes on-site infiltration using stormwater detention chambers. Care shall be taken to prevent sediment fines from entering chamber excavation area, or from underlying soils being overburdened from construction equipment and material storage. The following precautions and measures shall be taken:

- Protect all infiltration galleries from sedimentation through installation and maintenance of erosion and sediment control BMPs on portions of the site that drain into the chamber systems. Restore the BMPs to their fully functioning condition if they accumulate sediment during construction. Restoring the BMP must include removal of sediment and any sediment-laden soils and replacing the removed soils with soils meeting the design specification.
- Maintain the infiltration capabilities of the infiltration galleries by protecting against compaction by construction equipment and foot traffic.
- Protect completed lawn and landscaped areas from compaction due to construction equipment.
- Keep all heavy equipment off existing soils under LID facilities that have been excavated to final grade to retain the infiltration rate of the soils.

BMPs to be deployed include:

- BMP C103: High Visibility Fence

- BMP C200: Interceptor Dike and Swale
- BMP C233: Silt Fence

#### 4.0 CONSTRUCTION PHASING

GHFMO Station 51 shall be constructed in a single phase.

#### 5.0 CONSTRUCTION SCHEDULE

The following schedule is tentative. It is subject to change upon execution of a formal construction contract. The contractor's critical path management schedule and associated updates shall apply and this SWPPP shall be modified as necessary.

Table 2: Construction Schedule

| Construction Activity         | Start Date     | End Date       |
|-------------------------------|----------------|----------------|
| Install TESC BMPs             | October 2025   | October 2025   |
| Clearing/Demolition           | October 2025   | September 2025 |
| Grading                       | September 2025 | January 2025   |
| Utility Installation          | December 2025  | March 2026     |
| Base Course Placement         | May 2026       | June 2026      |
| Form, Pour, & Strip Concrete  | June 2026      | June 2026      |
| Asphalt Placement             | July 2026      | July 2026      |
| Striping & Signage            | September 2026 | September 2026 |
| Landscaping/Permanent Seeding | September 2026 | October 2026   |
| Maintain TESC BMPs            | October 2025   | March 2027     |

#### 6.0 FINANCIAL/OWNERSHIP RESPONSIBILITIES

Gig Harbor Fire & Medic One is responsible for Station 51.

#### 7.0 REFERENCES

*2023 Gig Harbor Stormwater Management and Site Development Manual. Ordinance No. 1511. Gig Harbor Public Works – Engineering. Gig Harbor, WA. May 3, 2023.*

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## Appendix A Figures

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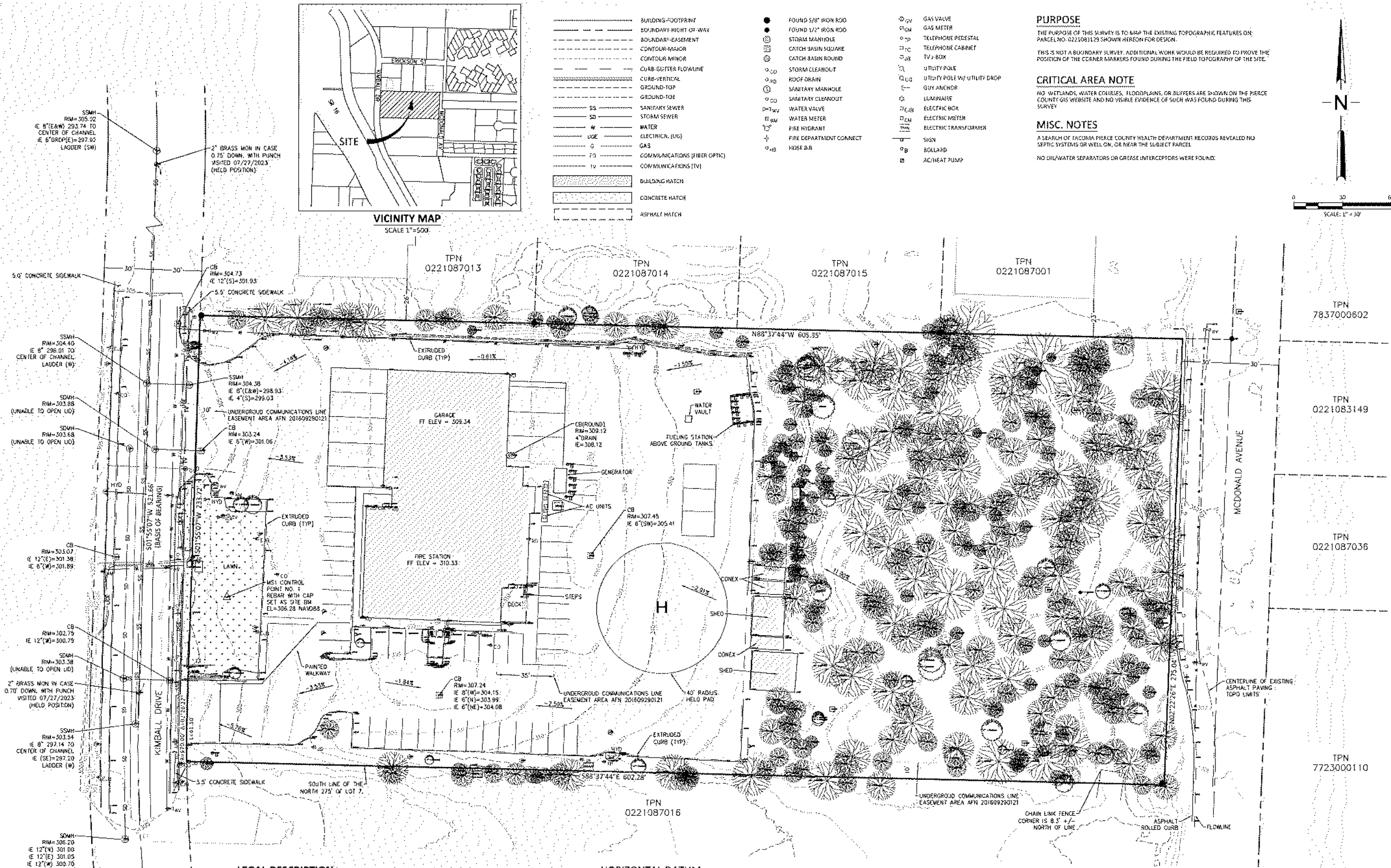
**Figure 3: Existing Conditions Plan**

**Figure 4: Soils Map**

**Figure 5: Clearing & Erosion Control Plan**

**Figure 6: Erosion Control Notes & Details**

FILE: J:\18174 - GHFMO STATION 51\600 SURVEY\602 DWG\18174TP1.DWG 6/27/2024 11:40 AM



#### LEGAL DESCRIPTION

PER CHICAGO TITLE INSURANCE COMPANY GUARANTEE/CERTIFICATE NO. 0259410-16, DATED: JULY 23, 2023:

THE NORTHERLY 275 FEET IN WIDTH OF THAT PORTION OF LOT 7, BEING THAT PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 8, TOWNSHIP 21 NORTH, RANGE 2 EAST, W.M., IN PIERCE COUNTY, WASHINGTON, ACCORDING TO THE PLAT OF THE SUBDIVISION OF GIG HARBOR ABANDONED MILITARY RESERVE, WHICH PLAT IS APPROVED BY THE U.S. SURVEYOR GENERAL'S OFFICE AT OLYMPIA, WASHINGTON, LYING EASTERLY OF A LINE DRAWN PARALLEL WITH AND 30 FEET EASTERLY, WHEN MEASURED AT RIGHT ANGLES AND/OR RADIIALLY, FROM THE FR 3 LINE SURVEY OF STATE HIGHWAY ROUTE 16, NARROWS BRIDGE TO OLYMPIC DRIVE;

EXCEPT THE EAST 30 FEET THEREOF CONVEYED TO THE CITY OF GIG HARBOR BY DEED RECORDED UNDER RECORDING NO. 9406010222, RECORDS OF PIERCE COUNTY, WASHINGTON.

SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON;

#### HORIZONTAL DATUM

THE HORIZONTAL DATUM FOR THIS SURVEY IS WASHINGTON SOUTH STATE PLANE COORDINATE SYSTEM NAD83/93.

#### VERTICAL DATUM

THE ELEVATIONS SHOWN ON THIS MAP ARE NAVD83 DATUM DERIVED FROM AN OPUS SOLUTION.

#### BENCHMARK

THE SITE BENCHMARK IS A 1/2" REBAR W/CAP MARKED "MSI CONTROL". CONTROL POINT 1 = 306.28 NAVD83

#### BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS WASHINGTON SOUTH STATE PLANE COORDINATE SYSTEM NAD83/93. AS MEASURED ON THE CENTERLINE OF KIMBALL DRIVE BETWEEN FOUND MONUMENTS AS SHOWN ON RECORD OF SURVEY, APN: 20059315003

#### PURPOSE

THE PURPOSE OF THIS SURVEY IS TO MAP THE EXISTING TOPOGRAPHIC FEATURES ON PARCEL NO. 0221083129 SHOWN HEREON FOR DESIGN.

THIS IS NOT A BOUNDARY SURVEY. ADDITIONAL WORK WOULD BE REQUIRED TO PROVE THE POSITION OF THE CORNER MARKERS FOUND DURING THE FIELD TOPOGRAPHY OF THE SITE.

#### CRITICAL AREA NOTE

NO WETLANDS, WATER COURSES, FLOODPLAINS, OR BUFFERS ARE SHOWN ON THE PIERCE COUNTY GIS WEBSITE AND NO VISIBLE EVIDENCE OF SUCH WAS FOUND DURING THIS SURVEY.

#### MISC. NOTES

A SEARCH OF TACOMA PIERCE COUNTY HEALTH DEPARTMENT RECORDS REVEALED NO SEPTIC SYSTEMS OR WELL ON, OR NEAR THE SUBJECT PARCEL.

NO OIL/WATER SEPARATORS OR GREASE INTERCEPTORS WERE FOUND.

GHFMO STATION 51  
GIG HARBOR, WASHINGTON

TOPOGRAPHIC SURVEY  
SITE CONDITIONS AS OF 7/28/2023

#### REVISIONS:

JOB NO.: 18174  
DATE: 6/27/2024  
SCALE: AS SHOWN  
DESIGNED BY:  
DRAWN BY: PAK  
CHECKED BY:

## TOPOGRAPHIC SURVEY

A PORTION OF LOT 7 WITHIN THE SW1/4 OF THE SW1/4  
OF SECTION 8, TOWNSHIP 21 NORTH, RANGE 2 EAST, W.M.  
CITY OF GIG HARBOR, COUNTY OF PIERCE, STATE OF WASHINGTON

SHEET

NO. 1 OF 1



Mackay Sposito

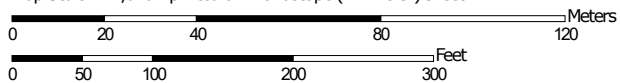
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# Custom Soil Resource Report

## Soil Map



Map Scale: 1:1,640 if printed on A landscape (11" x 8.5") sheet.

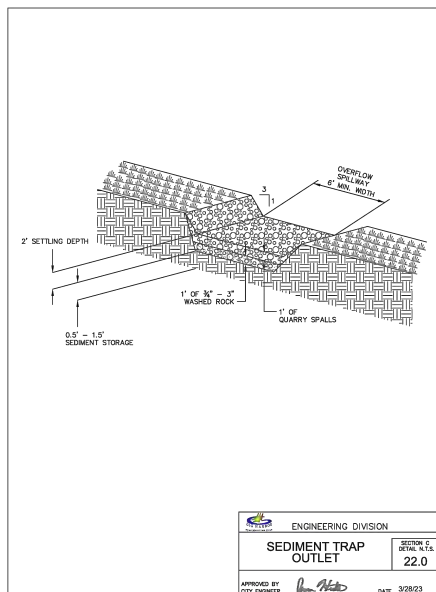
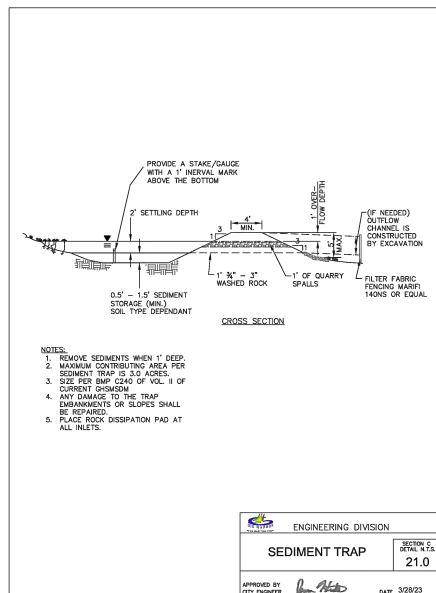


Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 10N WGS84

| Map Unit Symbol                    | Map Unit Name                                             | Acres in AOI | Percent of AOI |
|------------------------------------|-----------------------------------------------------------|--------------|----------------|
| 16B                                | Harstine gravelly ashly sandy loam, 0 to 6 percent slopes | 13.1         | 100.0%         |
| <b>Totals for Area of Interest</b> |                                                           | <b>13.1</b>  | <b>100.0%</b>  |

THESE PLANS REFLECT THE MINIMUM LEVEL OF TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) AS NEEDED FOR PERMITTING PURPOSES. THE CONTRACTOR IS RESPONSIBLE FOR ALL TESC MEASURES, MAINTENANCE, AND CLEANUP AS NEEDED TO PREVENT SEDIMENT FROM BEING TRACKED FROM THE SITE. THIS MAY INCLUDE STREET SWEEPING ON AN AS-NEEDED BASIS AND/OR DEPLOYMENT OF A WHEEL WASH.

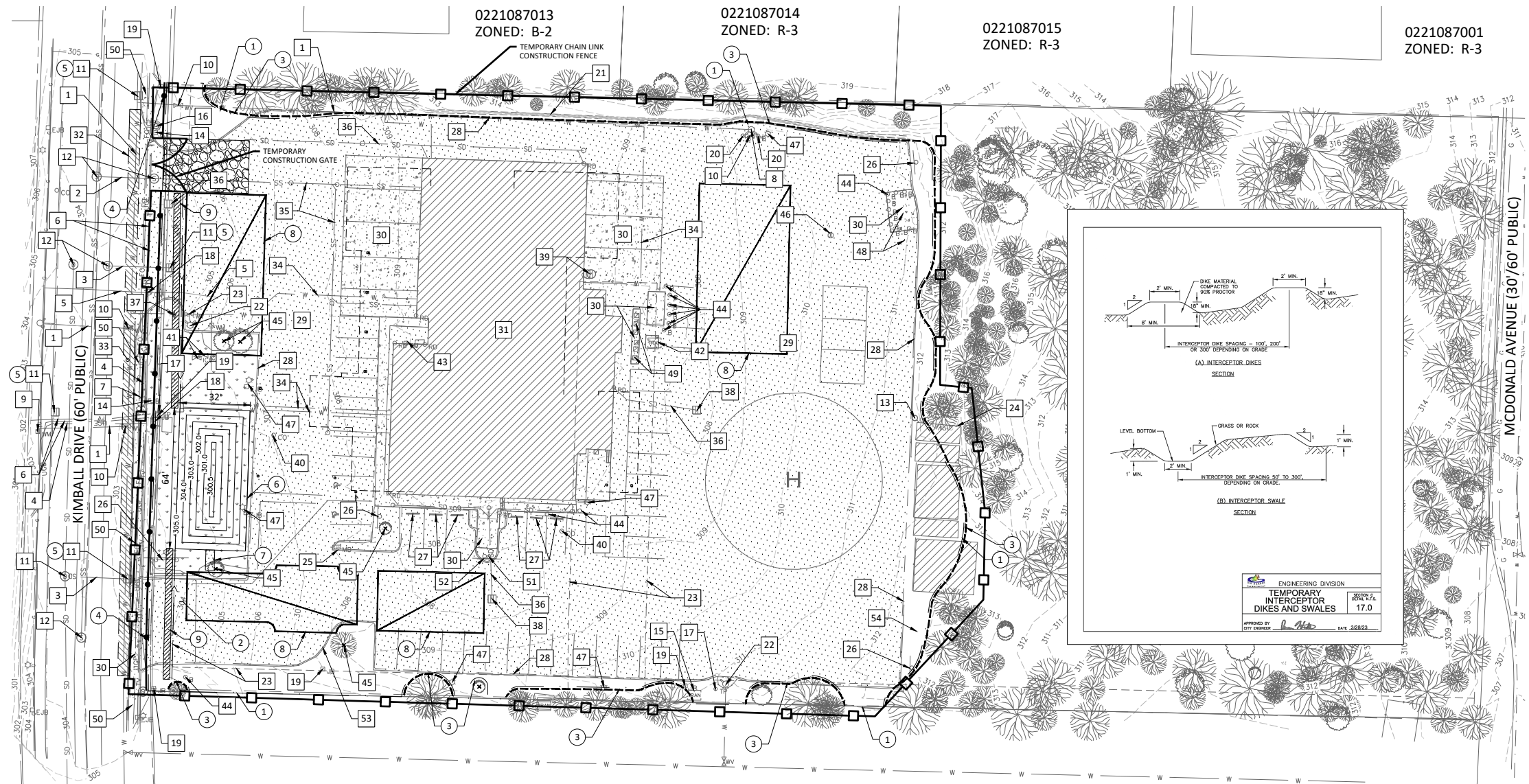
THE OWNER HAS APPLIED FOR COVERAGE UNDER WA DEPT. OF ECOLOGY'S CONSTRUCTION STORMWATER GENERAL PERMIT. COVERAGE WILL BE TRANSFERRED TO THE CONTRACTOR, WHO SHALL SERVE AS THE OPERATOR. THE CONTRACTOR SHALL SUBMIT MONTHLY DISCHARGE MONITORING REPORTS AS REQUIRED BY ECOLOGY.



- 1 LIMIT OF DISTURBANCE
- 2 CONSTRUCTION ENTRANCE. SEE DETAIL 1 ON SHEET C01.02
- 3 TREE PROTECTION FENCE. SEE DETAIL 2 ON SHEET C01.02
- 4 SILT FENCE. SEE DETAIL 3 ON SHEET C01.02
- 5 INLET PROTECTION. SEE DETAIL 4 ON SHEET C01.02
- 6 TEMPORARY SEDIMENT TRAP. SEE DETAIL 21.0, THIS SHEET. RUNOFF FROM ALL SUB-BASINS SHALL BE DIRECTED TO SEDIMENT TRAP THROUGH THE USE OF BERMS, SWALES, AND OTHER MEASURES AS NEEDED.
- 7 SEDIMENT TRAP OUTLET. SEE DETAIL 22.0, THIS SHEET.

EXCAVATIONS FOR STORMWATER CHAMBERS SHALL BE PROTECTED FROM SEDIMENT LADEN RUNOFF AND SOIL OVER-COMPACTON.

- 8 DO NOT PARK CONSTRUCTION EQUIPMENT OR STOCKPILE MATERIALS WITHIN STORMWATER CHAMBER EXCAVATIONS.
- 9 TEMPORARY INTERCEPTOR DIKE AND SWALE. SEE DETAIL 17.0, THIS SHEET.

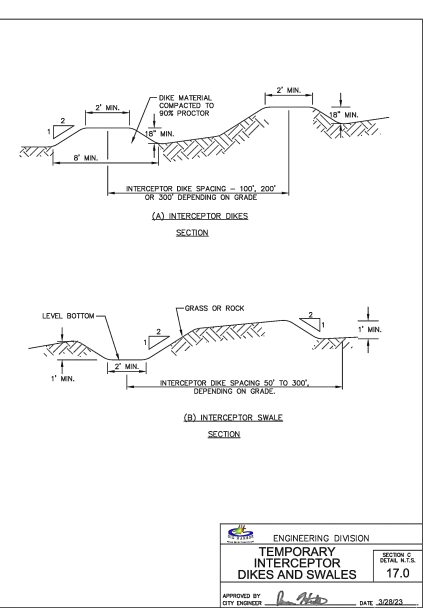


- 1 PRESERVE & PROTECT WATER LINE
- 2 PRESERVE & PROTECT SEWER PIPE
- 3 PRESERVE & PROTECT STORM PIPE
- 4 PRESERVE & PROTECT UNDERGROUND ELECTRIC LINE
- 5 PRESERVE & PROTECT UNDERGROUND GAS LINE
- 6 PRESERVE & PROTECT UNDERGROUND TV LINE
- 7 PRESERVE & PROTECT UNDERGROUND FIBER OPTIC LINE
- 8 REPLACE FIRE HYDRANT WITH NEW
- 9 PRESERVE & PROTECT WATER METER
- 10 PRESERVE & PROTECT WATER VALVE
- 11 PRESERVE & PROTECT STORM CATCHBASIN
- 12 PRESERVE & PROTECT SEWER MANHOLE
- 13 REMOVE AND DISPOSE POWER POLE
- 14 PRESERVE & PROTECT ELECTRIC BOX
- 15 PRESERVE & PROTECT ELECTRIC TRANSFORMER

- |    |                                                                                            |                                                                                       |
|----|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 16 | RELOCATE LIGHT POST/REPLACE FIXTURE<br>AND REMOVE BLOCK WALL. SEE ELEC.                    |                                                                                       |
| 17 | PRESERVE & PROTECT TELEPHONE PEDESTAL                                                      |                                                                                       |
| 18 | PRESERVE & PROTECT GAS VALVE                                                               |                                                                                       |
| 19 | PRESERVE & PROTECT JUNCTION BOX                                                            |                                                                                       |
| 20 | PRESERVE & PROTECT BOLLARD                                                                 |                                                                                       |
| 21 | PRESERVE & PROTECT ROCKERY                                                                 |                                                                                       |
| 22 | REMOVE & DISPOSE FIRE HYDRANT                                                              |                                                                                       |
| 23 | EXISTING UNDERGROUND COMMUNICATIONS<br>EASEMENT (AFN 201609290121) TO BE MODIFIED          |                                                                                       |
| 24 | OWNER WILL REMOVE 2 OF 3 CONEX BOXES. REMOVE<br>REMAINING CONEX BOX AND ENCLOSURES. (TYP.) |                                                                                       |
| 25 | SALVAGE MAILBOX. CONFIRM REINSTALLATION WITH OWNER.                                        |                                                                                       |
| 26 | SALVAGE SIGN. CONFIRM REINSTALLATION WITH OWNER.                                           |                                                                                       |
| 27 | REMOVE AND DISPOSE WHEELSTOP                                                               |                                                                                       |
| 28 | DEMOLISH & DISPOSE CURB                                                                    |                                                                                       |
| 29 | DEMOLISH & DISPOSE ASPHALT PAVEMENT                                                        |  |

|    |                                                                                                                                                                                             |                                                                                       |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 30 | OWNER SHALL REMOVE GENERATOR.                                                                                                                                                               |  |
| 31 | DEMOLISH & DISPOSE CONCRETE PAVEMENT                                                                                                                                                        |  |
| 32 | SAWCUT ASPHALT PAVEMENT                                                                                                                                                                     |                                                                                       |
| 33 | GRIND & OVERLAY ASPHALT PAVEMENT.<br>SEE DETAIL PC.A10.1 ON SHEET RW4.1                                                                                                                     |  |
| 34 | REMOVE & DISPOSE WATER LINE                                                                                                                                                                 |                                                                                       |
| 35 | REMOVE & DISPOSE SEWER PIPE                                                                                                                                                                 |                                                                                       |
| 36 | REMOVE & DISPOSE STORM PIPE                                                                                                                                                                 |                                                                                       |
| 37 | REMOVE & DISPOSE FIRE DEPARTMENT CONNECTION<br>IN ACCORDANCE WITH AWWA STANDARD.<br>DECOMMISSIONING SHALL OCCUR AT THE MAIN IN<br>KIMBALL. CALL CITY INSPECTOR PRIOR TO<br>DECOMMISSIONING. |                                                                                       |
| 38 | REMOVE & DISPOSE CATCH BASIN                                                                                                                                                                |                                                                                       |
| 39 | REMOVE & DISPOSE AREA DRAIN AND ASSOCIATED PIPING                                                                                                                                           |                                                                                       |
| 40 | REMOVE & DISPOSE CLEANOUT                                                                                                                                                                   |                                                                                       |
| 41 | REMOVE & DISPOSE IRRIGATION CONTROL VALVE                                                                                                                                                   |                                                                                       |
| 42 | REMOVE & DISPOSE TRANSFORMER                                                                                                                                                                |                                                                                       |

- 43 REMOVE & DISPOSE GAS METER AND ASSOCIATED PIPING
- 44 REMOVE & DISPOSE BOLLARD
- 45 REMOVE & DISPOSE TREE
- 46 DECOMMISSION, REMOVE & DISPOSE UNDERGROUND PUMP TANK AND VALVE.
- 47 REMOVE & DISPOSE LIGHT POLE & JUNCTION BOX
- 48 SALVAGE & PROTECT EXISTING 1,000-GALLON FUEL TANK. REINSTALL AT NEW LOCATION PER C02.01 AND ARCH. COORDINATE TIMING OF SALVAGE & RELOCATION WITH OWNER. THE OWNER WILL REMOVE EXISTING FUEL AND 200-GALLON DEF TANK.  
IF CONTAMINATED SOILS ARE DISCOVERED RELATED TO THIS TANK (OR PREVIOUSLY REMOVED TANKS), THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE WASHINGTON DEPT. OF ECOLOGY.
- 49 REMOVE & DISPOSE OUTDOOR HVAC UNITS
- 50 PRESERVE & PROTECT CONCRETE SIDEWALK
- 51 REMOVE & DISPOSE FLAG POLE
- 52 SALVAGE IN-GROUND MEMORIAL MARKER. PROVIDE TO OWNER.
- 53 REMOVE & DISPOSE WOODEN POST
- 54 FOOD BACKPACKS 4 KIDS SHED TO BE REMOVED BY OTHERS.



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**STATION 51**  
**GIG HARBOR FIRE AND MEDIC ONE**  
**GIG HARBOR, WASHINGTON**

[illegible]

## DEMOLITION &amp; TESC

SHEET #

# C01.01

1. APPROVAL OF THIS CONSTRUCTION SWPPP DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION/ DETENTION/INFILTRATION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THIS CONSTRUCTION SWPPP AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE CONSTRUCTION SWPPP FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE CONSTRUCTION SWPPP FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE CONSTRUCTION SWPPP FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE CONSTRUCTION SWPPP FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
6. THE CONSTRUCTION SWPPP FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. THE CONSTRUCTION SWPPP FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.
8. AT NO TIME SHALL MORE THAN 1-FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTEAM SYSTEM.
9. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

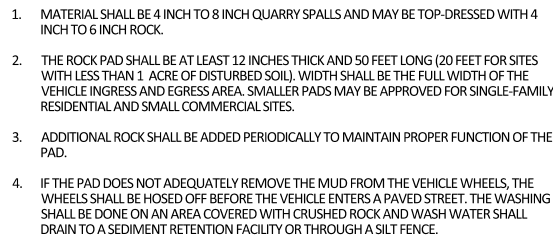
1. CALL CITY OF GIG HARBOR INSPECTOR TO ARRANGE A PRE-CONSTRUCTION MEETING.
2. IDENTIFY LIMITS OF CLEARING.
3. INSTALL FILTER FABRIC FENCE AND TREE PROTECTION FENCE.
4. INSTALL ROCK-LINED CONSTRUCTION ENTRANCE(S).
5. CLEAR TO LIMITS SHOWN ON PLAN.
6. SAWCUT AND DEMOLISH EXISTING PAVEMENTS TO LIMITS SHOWN ON THE PLANS.
7. ROUGH GRADE SITE AS DESIGNED.
8. INSTALL BUILDING FOUNDATION.
9. INSTALL SANITARY SEWER SYSTEM.
10. INSTALL STORM DRAINAGE.
11. INSTALL SEDIMENT BARRIERS OVER NEW CATCH BASINS.
12. PAVE FLOOR SLABS AND BEGIN VERTICAL CONSTRUCTION.
13. FINE GRADE FOR CURB AND GUTTER, AND SIDEWALKS.
14. INSTALL CURB AND GUTTER.
15. PAVE SITE.
16. INSTALL SIDEWALKS.
17. HYDROSEED ALL SLOPES NOT LANDSCAPED OR ANTICIPATED FOR ADDITIONAL WORK WITHIN 6 MONTHS.
18. COMPLETE LANDSCAPING.
19. REMOVE SEDIMENT BARRIERS.

1. SEED MIXTURE SHALL BE AS SHOWN BELOW, AND SHALL BE APPLIED AT THE RATE OF 120 POUNDS PER ACRE.

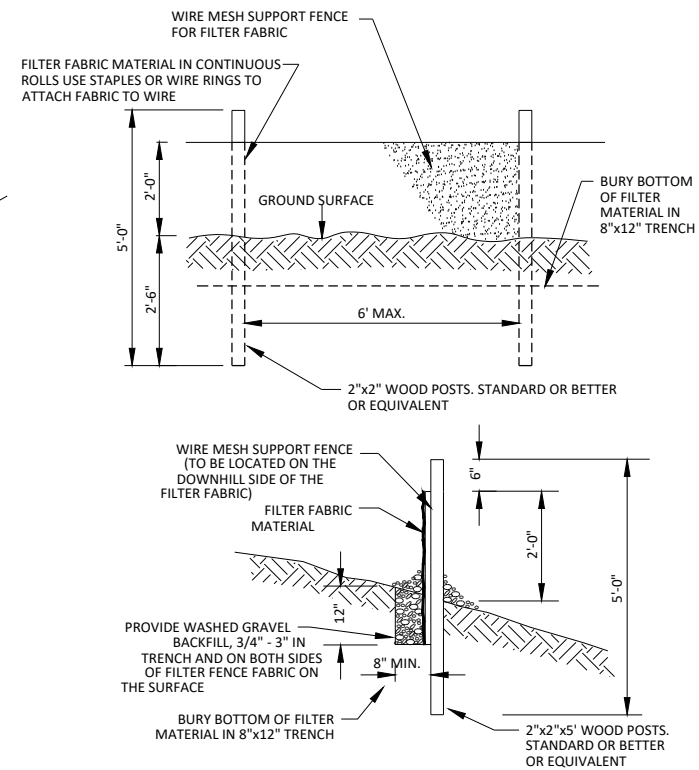
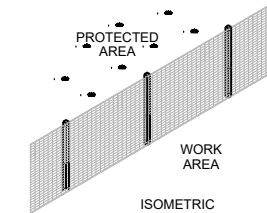
| NAME               | PROPORTION<br>BY WEIGHT | PERCENT<br>PURITY | PERCENT<br>GERMINATION |
|--------------------|-------------------------|-------------------|------------------------|
| RED TOP            | 5%                      | 92                | 85                     |
| PERENNIAL RYE      | 50%                     | 98                | 90                     |
| CHEWING FESCUE     | 40%                     | 98                | 90                     |
| WHITE DUTCH CLOVER | 5%                      | 98                | 90                     |
2. SEED BEDS PLANTED BETWEEN MAY 1 AND OCTOBER 31 WILL REQUIRE IRRIGATION AND OTHER MAINTENANCE AS NECESSARY TO FOSTER AND PROTECT THE ROOT STRUCTURE.
3. FOR SEED BEDS PLANTED BETWEEN OCTOBER 31 AND APRIL 30, ARMORING OF THE SEED BED WILL BE NECESSARY. (E.G., GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).
4. BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES, SWALES, LEVEL SPREADERS AND SEDIMENT BASINS.
5. THE SEEDBED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING. PERFORM ALL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPE.
6. FERTILIZERS ARE TO BE USED ACCORDING TO SUPPLIERS RECOMMENDATIONS. AMOUNTS USED SHOULD BE MINIMIZED, ESPECIALLY ADJACENT TO WATER BODIES AND WETLANDS.

1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, SO THAT THE OPEN ENDS FACE OUTWARD, NOT UPWARD. THE ENDS OF ADJACENT BLOCKS SHALL ABUT. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF BLOCKS THAT ARE 4 INCHES, AND 12 INCHES WIDE. THE ROW OF BLOCKS SHALL BE AT LEAST 12 INCHES BUT NO GREATER THAN 24 INCHES HIGH.
2. PLACE WIRE MESH OVER THE OUTSIDE VERTICAL FACE (OPEN END) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE BLOCKS. USE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS.
3. PILE STONE AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS. USE 3/4 TO 3 INCH GRAVEL.
4. PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. USE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC OVER WIRE MESH.
5. PLACE 3/4 INCH GRAVEL OVER THE WIRE MESH. THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. EXTEND THE STONE BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
6. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, THE STONES MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED.

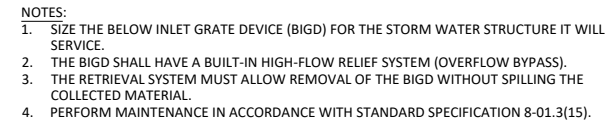
1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SILT FENCES AT THE LOCATION SHOWN IN THE PLANS.
2. CONSTRUCT SILT FENCES IN AREAS OF CLEARING, GRADING, OR DRAINAGE PRIOR TO STARTING THOSE ACTIVITIES.
3. THE SILT FENCE SHALL HAVE A 2-FEET MIN. AND 2.5-FEET MAX. HEIGHT ABOVE THE ORIGINAL GROUND SURFACE.
4. THE FILTER FABRIC SHALL BE SEWN TOGETHER AT THE POINT OF MANUFACTURE TO FORM FILTER FABRIC LENGTHS AS REQUIRED. LOCATE ALL SEWN SEAMS AT SUPPORT POSTS. ALTERNATIVELY, TWO SECTIONS OF SILT FENCE CAN BE OVERLAPPED, PROVIDED THE CONTRACTOR CAN DEMONSTRATE, TO THE SATISFACTION OF THE ENGINEER, THAT THE OVERLAP IS LONG ENOUGH AND THAT THE ADJACENT FENCE SECTIONS ARE CLOSE ENOUGH TOGETHER TO PREVENT SILT-LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP.
5. ATTACH THE FILTER FABRIC ON THE UP-SLOPE SIDE OF THE POSTS AND SECURE WITH STAPLES, WIRE, OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ATTACH THE FILTER FABRIC TO THE POSTS IN A MANNER THAT REDUCES THE POTENTIAL FOR TEARING.
6. SUPPORT THE FILTER FABRIC WITH WIRE OR PLASTIC MESH, DEPENDENT ON THE PROPERTIES OF THE GEOTEXTILE SELECTED FOR USE. IF WIRE OR PLASTIC MESH IS USED, FASTEN THE MESH SECURELY TO THE UP-SLOPE SIDE OF THE POSTS WITH THE FILTER FABRIC UP-SLOPE OF THE MESH.
7. MESH SUPPORT, IF USED, SHALL CONSIST OF STEEL WIRE WITH A MAXIMUM MESH SPACING OF 2-INCHES, OR A PREFABRICATED POLYMERIC MESH. THE STRENGTH OF THE WIRE OR POLYMERIC MESH SHALL BE EQUIVALENT TO OR GREATER THAN 180 POUNDS GRAB TENSILE STRENGTH. THE POLYMERIC MESH MUST BE AS RESISTANT TO THE SAME LEVEL OF ULTRAVIOLET RADIATION AS THE FILTER FABRIC IT SUPPORTS.
8. BURY THE BOTTOM OF THE FILTER FABRIC 8-INCHES MIN. BELOW THE GROUND SURFACE. BACKFILL AND TAMP SOIL IN PLACE OVER THE BURIED PORTION OF THE FILTER FABRIC, SO THAT NO FLOW CAN PASS BENEATH THE FENCE AND SCOURING CANNOT OCCUR. THE WIRE OR POLYMERIC MESH SHALL EXTEND INTO THE GROUND 3-INCHES MIN.
9. DRIVE OR PLACE THE FENCE POSTS INTO THE GROUND 18-INCHES MINIMUM. A 12-INCH DEEP MESH SUPPORT ALLOWED IF TOPSOIL OR OTHER SOFT SUBGRADE SOIL IS NOT PRESENT AND 18-INCHES CANNOT BE REACHED. INCREASE FENCE POST MIN. DEPTHS BY 6-INCHES IF THE FENCE IS LOCATED ON SLOPES OF 3H:1V OR STEEPER AND THE SLOPE IS PERPENDICULAR TO THE FENCE IF REQUIRED POST DEPTHS CANNOT BE OBTAINED. THE POSTS SHALL BE ADEQUATELY SECURED BY BRACING OR GUYING TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT LOADING.
10. USE WOOD, STEEL, OR EQUIVALENT POSTS. THE SPACING OF THE SUPPORT POSTS SHALL BE A MAXIMUM OF 6-FEET. POSTS SHALL CONSIST OF EITHER:
  - WOOD WITH DIMENSIONS OF 2-INCHES BY 2-INCHES WIDE MIN. AND A 3-FEET MIN. LENGTH. WOOD POSTS SHALL BE FREE OF DEFECTS SUCH AS KNOTS, SPLITS, OR GOUGES.
  - NO. 6 STEEL REINFORCEMENT BAR OR LARGER.
  - ASTM A 120 STEEL PIPE WITH A MINIMUM DIAMETER OF 1-INCH.
  - U, T, L, OR C SHAPE STEEL POSTS WITH A MINIMUM WEIGHT OF 1.35 POUNDS/FEET.
  - OTHER STEEL POSTS HAVING EQUIVALENT STRENGTH AND BENDING RESISTANCE TO THE POST SIZES LISTED ABOVE.
11. LOCATE SILT FENCES ON CONTOUR AS MUCH AS POSSIBLE, EXCEPT AT THE ENDS OF THE FENCE, WHERE THE FENCE SHALL BE TURNED UPHILL SUCH THAT THE SILT FENCE CAPTURES THE RUNOFF WATER AND PREVENTS WATER FROM FLOWING AROUND THE END OF THE FENCE.
12. THE FENCE MUST CROSS CONTOURS, WITH THE EXCEPTION OF THE ENDS OF THE FENCE, PLACE GRAVEL CHECK DAMS PERPENDICULAR TO THE BACK OF THE FENCE TO MINIMIZE CONCENTRATED FLOW AND EROSION. THE SLOPE OF THE FENCE LINE WHERE CONTOURS MUST BE CROSSED SHALL NOT BE STEEPER THAN 3H:1V.
  - GRAVEL CHECK DAMS SHALL BE APPROXIMATELY 1-FOOT DEEP AT THE BACK OF THE FENCE. GRAVEL CHECK DAMS SHALL BE CONTINUED PERPENDICULAR TO THE FENCE AT THE SAME ELEVATION UNTIL THE TOP OF THE CHECK DAM INTERCEPTS THE GROUND SURFACE BEHIND THE FENCE.
  - GRAVEL CHECK DAMS SHALL CONSIST OF CRUSHED SURFACING BASE COURSE, GRAVEL BACKFILL FOR WALLS, OR SHOULDER BALLAST. GRAVEL CHECK DAMS SHALL BE LOCATED EVERY 10-FEET ALONG THE FENCE WHERE THE FENCE MUST CROSS CONTOURS.



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



## SECTION 095400 - SPECIALTY CEILINGS

### PART 1 GENERAL

#### 1.1 SUMMARY

- A. Section includes:
  - 1. Sound absorptive planks
- B. Related sections
  - 1. Section 095100 – Acoustical Ceilings
  - 2. Section 092116 – Gypsum Board Assemblies

#### 1.2 REFERENCE STANDARDS

- A. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2023.
- B. ASTM D1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials; 2012 (Reapproved 2020).
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2024.

#### 1.3 SUBMITTALS

- A. Comply with Section 013300 – Submittal Procedures
- B. Product Data: Manufacturer's technical data and installation instructions for each type of plank required.
- C. Certifications: Certified test reports showing compliance with performance requirements specified.
- D. Samples: Submit a minimum of three (3) samples of each panel type and finish type required. Include samples that show the range of variation expected in grain, texture and color.
- E. Shop Drawings: Submit shop drawings, including details, for all surfaces. Coordinate plank layout, installation, and suspension system components. Show overall layout with dimensions and details of penetrations and intersections with other materials or building components.
- F. Submit operation and maintenance data for installed products. Include precautions relating to harmful cleaning materials and methods that would affect the service life of the planks.

#### 1.4 QUALITY ASSURANCE

- A. A. Single Source Responsibility: Provide acoustic planks from a single manufacturer with at least 5 years of prior experience fabricating projects of similar size and complexity.
- B. Installer: Installation shall be done by qualified carpenters with at least 2 years experience in the installation of architectural woodwork or acoustical systems. Installers must receive training on handling, cutting, machining and field finishing the specified product prior to receiving materials on site.

- C. Fire Performance Characteristics: Class A as tested by an independent accredited testing facility. Tests: ASTM E84. Flame spread: 25 or less. Smoke developed: 450 or less as specified by state or local codes.
- D. Coordination of Work: Installing contractor shall organize and conduct a pre-installation survey of temperature, humidity and construction elements attaching, penetrating, or concealed behind the acoustic planks.
- E. A. Test Methods:
  - 1. ASTM C423 Sound absorption and sound absorption coefficients by the reverberation room method performed by an independent testing agency.
  - 2. ASTM E84 Standard test method for surface burning characteristics of building materials.
  - 3. ASTM D1037 Linear expansion with change in moisture content.
  - 4. Standard Method Version 1.2 for CDPH01350 Volatile organic compounds.
  - 5. DELIVERY, STORAGE AND HANDLING
- F. A. Deliver planks to the project in original, unopened packages. Inspect containers for visible damage and report any questionable condition to the shipper and manufacturer immediately.
- G. Store products in a fully enclosed, clean, dry space out of direct sunlight and protected from damage with temperature controlled between 50 and 86 degrees Fahrenheit (30 degrees Celsius).
- H. Handle products carefully to avoid damaging plank surfaces or chipping edges. Report any damage immediately. Installation of damaged planks is not covered by the manufacturer's warranty.

#### 1.5 PROJECT CONDITIONS

- A. Do not install acoustic planks until space is enclosed and weather-proofed, wet work is completely dry and ambient temperature and humidity conditions are maintained at the levels indicated for the project when occupied for its intended use.
- B. Permit planks to reach room temperature, 50 to 86 degrees Fahrenheit (30 degrees Celsius), and stabilized moisture content of 25% to 55% RH for at least 72 hours before installation per AWI standards. Building should be enclosed and HVAC systems functioning in continuous operation with relative humidity maintained between 25 and 55 percent.

#### 1.6 WARRANTY

- A. Provide manufacturer's standard one-year written product warranty per Section 01770 – Closeout Procedures
- B. Manufacturer's warranty is limited to decorative or acoustical materials only. Other components used in the acoustic system are excluded. Refer to the appropriate provisions in the related specification section.

#### 1.7 MAINTENANCE

- A. Maintenance Instructions: Provide manufacturer's standard maintenance and cleaning instructions for finishes provided.

## PART 2 – PRODUCTS

### 2.1 MANUFACTURERS

- A. Provide planks utilizing SoundPly® acoustic panels manufactured by Navy Island Inc., 275 Marie Avenue E, WeSt. Paul, MN 55118, Ph. (651) 451-4454, email soundply@navyisland.com
- B. Provide panels utilizing Quiespace Panels manufactured by Autex Acoustics, 1630 Dan Kipper Drive, Riverside, CA 92507, Ph. 1 (424) 203-1813, www.autexacoustics.com

### 2.2 MATERIAL - WOOD PLANK ACOUST

- A. (ACP-1) Basis of Design: SOUNDPLY® Lino RF-M Planks for Interior Installation:
  - 1. Lino RF-M51 (2") thick acoustical planks as follows: Real wood veneer laminated to a fiberglass reinforced polymer or a painted surface applied to an MDF skin. Surface skin thickness shall not be less than 1.5mm (0.060").
  - 2. The core of the planks shall be comprised of a Class A sintered resin- reinforced glass wool.
  - 3. Substitutions: See Section 016000 - Product Requirements
    - a. Substitution requests will not be considered after bids are opened.
- B. Planks Edge Treatment: Planks will be edge banded with the matching materials and finish, or as specified by the architect, to match or contrast with the plank face.
- C. Planks Spacing: Select Planks to be mounted per manufacturer's installation instructions for open reveal 1/4" closed reveal with matching wood spline or per architect's specification.
- D. Planks Weight: RFR-51 = 3.3 lbs./ft<sup>2</sup>
- E. Planks Sizes: Select Planks are available in the following sizes.
  - 1. Plank Width: See drawings
  - 2. Plank Length: 10'.
- F. Plank thickness: Select RF-M51 (2")
- G. Flame Resistance: Lino Planks are composed of SoundPly® RF panels which have a Class 1(A) rating based on ASTM E84 standard test method for surface burning characteristics in building materials. Depending on the use and the type of veneer selected, Lino Planks can be used in Class A environments (IBC Chapter 8 Section 803).
- H. Perforations: Planks will be furnished with perforated faces consisting of 0.5mm (0.02") diameter holes in an offset pattern. The perforations must be clean without rounded edges or grain pull out between perforations. A minimum of 99.5% of the perforations must be acoustically functional, providing unobstructed passage into the core. Perforations must maintain consistent diameter through the face material and backer with no tapering or roughness.
- I. Acoustic Performance: To generate the standing sound waves required for resistive absorption, each plank must have an acoustically reflective back surface that extends the plank's full length and width. Each plank must achieve a minimum NRC test value as stated without any cavity space or back loading: Select
  - 1. Lino RF-M51 (2" thick) 1.0 NRC
- J. Plank Stability: Linear contraction or expansion to not exceed 0.4% maximum variation in width or height per ASTM D1037.

- K. VOC Emissions: Planks must be third party certified to be in compliance with CDPH01350 for volatile organic compounds.
- L. Finish for Veneer Faced Planks: Select
  - 1. Species: Selected by the architect from manufacturer's full standard selection of species.
  - 2. Cut: Selected by architect from manufacturer's full standard selection of cuts: sliced, quartered/rift, or rotary.
  - 3. Matching veneer leaves: all planks will be book matched.
  - 4. Finishes shall be applied in the shop: clear, stained, or painted.

## 2.3 MATERIAL - ACOUSTIC PANEL

- A. (ACP-2) Basis of Design: QuietSpace Panels for interior installation:
  - 1. 4 ft by 8 ft by (2-inches) thickness acoustical panel made from 100% polyester fiber with a hard, compressed face and cushioned backing. Panel is high-performance acoustic treatment engineered to absorb a minimum of 85% of the sound energy it meets.
  - 2. Cut, fit and mount panel to ceiling between roof structure, see drawings.
  - 3. Panel made from thermally bonded polyester containing no less than 45% recycled material.
  - 4. Sound absorption (2-inch) thickness: Class A, NRC 1.00. Class B FS:50 - SD:130, ISO 9705.
  - 5. Classification (2-inch) thickness Group 1-S, AS ISO 9705 - 2003, Group 1, EN13501-1:2007+A1:2009: B - s2, d2.
  - 6. Substitutions: See Section 016000 - Product Requirements

## PART 3 – EXECUTION

### 3.1 EXAMINATION

- A. Inspect installation area and conditions under which work is to be performed for compliance with all manufacturer's environmental requirements. All wet work in the installation area must be complete, cured, and dry prior to installation. Do not proceed until all unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Installation must be done by qualified carpenters with 2 years experience in the installation of architectural woodwork or acoustic systems. The firm must demonstrate successful experience installing materials of similar type and quality of those required for this project. The use of proper carpentry tools and techniques will be required for the installation.
- B. Comply with manufacturer's instructions and recommendations for hanging planks.
  - 1. For a suspended grid, install using Plank Clips, which impale securely onto a plank's edge, then fasten to the 15/16" heavy duty suspended grid.
  - 2. For direct mount, install using Plank Clips, which are impaled securely onto a plank's edge and fastened to a pre-installed 15/16" hat channel or pre-installed level furring strips using self-tapping screws.
- C. Confirm all field dimensions are coordinated with shop drawings.

### 3.3 ADJUSTING AND CLEANING

- A. Clean soiled surfaces of planks per manufacturer's instructions.

- B. Remove and replace damaged or discolored materials not in compliance with manufacturer's tolerances.

END OF SECTION 095400

## SECTION 095426 - SUSPENDED WOOD CEILINGS

### PART 1 - GENERAL

#### 1.1 SECTION INCLUDES

- A. Acoustical wood ceiling systems.
- B. Suspension system and connectors.
- C. Accommodation for penetrations of HVAC and electrical items such as lighting and outlets.

#### 1.2 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene one week before starting work of this section in accordance with Section 01 31 00 - Project Management and Coordination.
  - 1. Review preparation and installation procedures and coordinating and scheduling required with related work.
- B. Related Sections:
  - 1. Section 095100 – Acoustical Ceilings.

#### 1.3 SUBMITTALS

- A. Qualification Data: For manufacturer and installer.
- B. Submit shop drawings prepared by the manufacturer showing all necessary details and dimension requirements field verified.
- C. Samples: Submit 8-inch X 5-inch sample panels of each type of product specified.
- D. Certification: Submit certificate of compliance to specified acoustical and fire performance criteria as stated below
- E. Test results: Submit independent laboratory test results for each product used. components must meet or exceed the specified requirements.
- F. Manufacturer's Approval of installer.
- G. Single Source: All wood ceiling panels shall be purchased from a single supplier.

#### 1.4 QUALITY ASSURANCE

- A. Manufacturer & Installer: Firm manufacturing shall have adequate capacity required for projects listed and have successfully completed similar projects for not less than five years.
- B. The Installer shall be approved by the manufacturer as qualified to perform work.
- C. Fire Performance Characteristics: Class A as tested by an independent accredited testing facility. Tests: ASTM E84. Flame spread: 25 or less. Smoke developed: 450 or less as specified by state or local codes.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Fire-Retardant-Treated Wood: Prevent exposure to precipitation during shipping, storage, or installation.
- B. Deliver fabricated units and related components to the site for installation in accordance with a reasonable schedule furnished by the contractor. On-site storage shall be such as to assure that all panels and associated materials are protected from damage.
- C. Do not deliver wood materials to project site until building is fully enclosed and interior temperature and humidity are in accordance with recommendations of AWI Quality Standards Illustrated.
- D. Store, install and maintain panels only in a secure ambient environment (humidity minimum 35 percent - maximum 55 percent, temperature not to exceed 80° F.
- E. Handle products carefully to avoid damaging plank surfaces or chipping edges. Report any damage immediately. Installation of damaged planks is not covered by the manufacturer's warranty.

1.6 PROJECT CONDITIONS

- A. Do not install acoustic planks until space is enclosed and weather-proofed, wet work is completely dry and ambient temperature and humidity conditions are maintained at the levels indicated for the project when occupied for its intended use.
- B. Permit planks to reach room temperature, 50 to 86 degrees F, and stabilized moisture content of 25% to 55% RH for at least 72 hours before installation per AWI standards. Building should be enclosed and HVAC systems functioning in continuous operation with relative humidity maintained between 25 and 55 percent.
- C. MAINTENANCE
  - 1. Maintenance Instructions: Provide manufacturer's standard maintenance and cleaning instructions for finishes provided.

PART 2 - PRODUCTS

2.1 DESCRIPTION

- A. Suspended wood ceiling systems with seismic edge clips and manufactured edge trim at changes in plane.

2.2 MANUFACTURERS

- A. Manufacturers:
  - 1. Armstrong World Industries; Armstrong Ceilings; [www.armstrongceilings.com](http://www.armstrongceilings.com).

2.3 MATERIALS

2.4 BASIS OF DESIGN REQUIREMENTS

- A. (WDC-1) Wood Slat Ceiling and Wood Fascia:
  - 1. Armstrong Woodworks Grille Forte 7098 Backer and Dowel
  - 2. Species and Finish: Red Oak (GRK)

3. Acoustic backing: 6657 BioAcoustic Infill Panel
  4. Cut to fit above ceiling and behind fascia
  5. Suspension Grid: Black
  6. Substitutions: See Section 016000 - Product Requirements
    - a. Substitution requests will not be considered after bids are opened.
- B. (WDC-2) Wood Tegular Ceiling Tile:
1. Armstrong Woodworks Tegular; 5404F018200T10; 24 inch x 24 inch x 3/4 inch
  2. Species and Finish: Rift White Oak (NRO)
  3. Acoustic backing: Fiberglass Infill
  4. Suspension Grid: Black
  5. Substitutions: See Section 016000 - Product Requirements
    - a. Substitution requests will not be considered after bids are opened.
- C. (WDC-3) WoodTegular Ceiling Tile:
1. Armstrong Woodworks Tegular; 6484F018200T10; 48 inch x 12 inch x 3/4 inch
  2. Species and Finish: Rift White Oak (NRO)
  3. Acoustic backing: Fiberglass Infill
  4. Suspension Grid: Black
  5. Substitutions: See Section 016000 - Product Requirements
    - a. Substitution requests will not be considered after bids are opened.

## 2.5 ACCESSORIES

- A. All accessory materials required by the manufacturer for a warrantable installation of the installed products in a manner that meets the Performance and Design Criteria.
- B. Woodworks Grille Solid End-Stain: to match ceiling tile finish.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Examine substrates and structural framing to which ceiling system attaches or abuts, with installer present, for compliance with requirements of this or other sections that affect installation and support of ceiling system.
- B. All wet work in the installation area must be complete, cured, and dry prior to installation.
- C. Do not proceed with installation until unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. General: Install all materials in accordance with manufacturer's instructions based on conditions present.
- B. Provide for shimming and adjustment to maintain consistent alignment of joints and finished panel faces.
- C. Coordinate location of framing and hangers with other work. Where components prevent regular spacing of framing or hangers, reinforce system to span the extra distance.
- D. Hang system independent of walls, columns, ducts, pipes, and conduit.

- E. Comply with manufacturer's instructions and recommendations for hanging planks.
  - 1. For a suspended grid, install using Plank Clips, which impale securely onto a plank's edge, then fasten to the 15/16" heavy duty suspended grid.
- F. Confirm all field dimensions are coordinated with shop drawings.

### 3.3 TOLERANCES

- A. Variation from Flat and Level Surface: 0.125 inch in 10 feet.

### 3.4 ADJUSTMENT AND REPLACEMENT

- A. The Owner shall inspect the installation and product on completion. The manufacturer shall provide repair or replace components not conforming to requirements.
- B. Installation labor for removal and replacement of product improperly installed and not conforming to specified installation instructions and shown on plans shall be the responsibility of the installing Contractor.
- C. Remove and replace damaged or discolored materials not in compliance with manufacturer's tolerances.

END OF SECTION

## SECTION 112000 - COMMERCIAL EQUIPMENT

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Bunker Gear Lockers.
- B. Bunker Gear Locker Support Frames.
- C. Gear Racks.
- D. Wire Wall Shelf
- E. SCBA (Self-Contained Breathing Apparatus) Compressor.
- F. Auto-Cascade Containment Fill Station.
- G. Washer Extractor.
- H. Gear Dryer.

#### 1.2 RELATED REQUIREMENTS

- A. See Division 220000, Plumbing connections for equipment.
- B. See Division 260000, Electrical connections for equipment.

#### 1.3 REFERENCE STANDARDS

- A. UL (DIR) - Online Certifications Directory; Current Edition.

#### 1.4 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's data indicating dimensions, capacity, and operating features of each piece of residential equipment specified.
- C. Copies of Warranties: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

### PART 2 PRODUCTS

#### 2.1 BUNKER GEAR LOCKERS, WALL MOUNTED

- A. (L-1) Basis of Design: Wall Mount Red Rack by Ready Rack. Provide locker layout as shown in drawings.
- B. Features:
  - 1. Size: 24-inches x 24-inches x 72-inches tall per each locker. See drawings for number of lockers.
  - 2. Each locker to include:
    - a. Security top shelf per each unit.

- b. Adjustable boot shelf; and adjustable helmet shelf per each locker.
- c. Hanging pole with (2) DRY KWIK open hangers; and (2) apparel hooks, per each locker.
- d. Nameplate & holder per each locker.
- 3. Finish: Powder coat.
- 4. Color: Red.

## 2.2 BUNKER GEAR LOCKERS, MOBILE:

- A. (L-2) Basis of Design: Mobile Red Rack; Double Sided Lockers (back to back), by Ready Rack, with Swivel Casters & Foot Operated Brakes. Provide locker layout as shown in drawings.
- B. Features:
  - 1. Size: Determined by number of lockers. See drawings for number of lockers.
  - 2. Size: 24-inches x 24-inches x 81-inches tall per each locker
  - 3. Each locker to include:
    - a. Security back frame panel; and security top shelf per each mobile unit.
    - b. Adjustable boot shelf; and adjustable helmet shelf per locker.
    - c. Hanging pole with (2) DRY KWIK open hangers; and (2) apparel hooks per each locker.
    - d. Nameplate & holder per each locker.
  - 4. Finish: Powder coat.
  - 5. Color: Red.

## 2.3 WIRE WALL SHELF (SHELF):

- A. Basis of Design: Eagle Group Wire Wall Shelf Kit GWB1436C
- B. Quantity: (4) total units. Each unit is 14-inches i width by 36-inches in length.
- C. Finish: stainless steel.

## 2.4 SCBA COMPRESSOR (SCBA):

- A. System Description: Provide/install C-ASME-7000 cylinder assembly (Qty 6); ASME cylinder clamp set (Qty12); 4 cylinder rack assembly (Qty 2); Hose 72-inch, 7000PSI with ends (Qty 4); Hose 120-inch, 7000PSI with ends (Qty 2); SCBA Fill Assembly (Qty 1) - no hose; High pressure hose reel assembly, 100' (Qty1) - hose not included; Hose, 100-feet, 7000PSI, with ends (Qty1); 1/4 NPT Plug (Qty 1); Two Cylinder Pipe Hoses (interconnecting piping for the first two cylinders using high pressure hose (Qty 2); and 5 year or 1000 hour Ace Silver Warranty.
  - 1. Basis of Design: Artic, Enclosed 2500 Series Compressor, E4-20-A6.
    - a. Motor: 20HP, 3-phase, 480V, NEMA L-16-30.
    - b. Air cooled with a high velocity, 12 bladed fan.
    - c. 4 Stage, 2500 Series.
    - d. 6000PSI, 24 CFM.

## 2.5 AUTO-CASCADE CONTAINMENT FILL STATION (BTL):

- A. Basis of Design: Artic, Auto-Cascade Series Containment Fill Station, C-FS3PA55
  - 1. Fill Positions: 3
  - 2. Maximum Inlet Pressure: 6000PSI

2.6 WASHER EXTRACTOR (EXTRCT):

- A. Owner furnished Contractor Installed.

2.7 GEAR DRYER (DRY-2):

- A. Owner furnished Contractor Installed.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify utility rough-ins are provided and correctly located.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Anchor built-in equipment in place per manufacturer's requirements

3.3 ADJUSTING

- A. Adjust equipment to provide efficient operation.

3.4 CLEANING

- A. Remove packing materials from equipment and properly discard.
- B. Wash and clean equipment.

3.5 STORAGE AND PROTECTION

- A. Store all equipment per manufacturer's written instructions, and protect equipment from damage during construction.

END OF SECTION 112000



1. SEE SHEET L01.00 FOR PLANTING PLAN, L01.01 FOR FRONT PLAZA PLAN
2. SEE SHEETS L02.00-L02.02 FOR LANDSCAPE NOTES & DETAILS
3. SEE SHEET L03.00 FOR IRRIGATION PLAN
4. SEE SHEETS L04.00, L04.01 FOR IRRIGATION NOTES & DETAILS
5. SEE SHEETS L05.00-L05.03 FOR TREE RETENTION PLANS

 LAWN AREA TYP. (HYDROSEEDED, SEE SPEC, SECTION 323113)

 TREE PROTECTION AREA, 2" DEPTH BARK MULCH ONLY. NO GROUND DISTURBANCE, ERADICATE EX. GRASSES PRIOR TO MULCHING, TYP. DO NOT BARK MULCH OR DISTURB AREAS BEYOND LIMIT OF WORK, TYP.

× PROPOSED REMOVED TREE, SEE TREE RETENTION SHEETS L05.00-L05.03

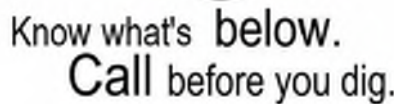
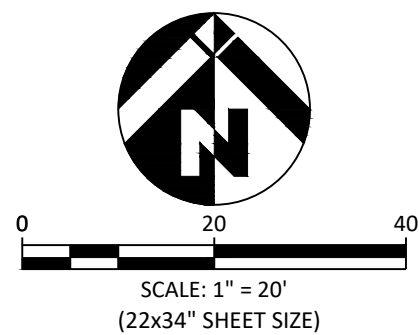
— — — — — PROPERTY LINE

PARCEL SIZE: 166,354 SF (3.814 ACRES)  
NATIVE VEGETATION RETAINED: 74,130 SF (44.6% OF PARCEL AREA)  
RETAINED SIGNIFICANT TREES: 95%+ (25% REQUIREMENT).  
OPEN SPACE GHMC 17.99.280: FRONT PLAZA 1,621 SF (7.5% OF FLOOR AREA)  
MODIFIED NORTH BUFFER: 40' WIDE P.L. BUFFER 130' x 40' = 5,200 SF (WHERE REQUIRED)  
BUFFER PROVIDED: 560 SF PROVIDED (PORTION OF 13 x 70). REST OF AREA RETAINED  
 EXISTING FEATURES OR REHABBED IN KIND (I.E. ASPHALT REPLACED W/ ASPHALT).

- 1 PROPOSED STREET TREE, SEE ROOT BARRIER DETAIL #4 SHEET L02.01, TYP.
- 2 MODIFIED GHMC 17.99.180 40' SCREENING BUFFER (MODIFIED PER GHMC SECTION 17.68.080, CONTINUITY OF PRIOR CONDITIONS).
- 3 HYDROSEED LAWN AREA, INSTALL A 6" DEPTH OF IMPORT TOPSOIL, TYP.
- 4 PRIOR TO PROJECT CLOSEOUT, THE OWNER SHALL SIGN AN AGREEMENT ASSUMING MAINTENANCE RESPONSIBILITIES FOR THE WALL
- 5 FORMAL LANDSCAPE BED AREA, INSTALL A 9" DEPTH OF IMPORT TOPSOIL TYP.
- 6 TREE PROTECTION FENCING. SEE PROTECTION DETAIL #1 SHEET L05.00, TYP.
- 7 BLOCK WALL, SEE DETAIL #1 SHEET L02.02. UTILITY VAULTS TO REMAIN, TYP.
- 8 ENTERING SIGHT DISTANCE TRIANGLE.
- 9 PARKING LOT LANDSCAPING BUFFER, 10' WIDTH. TYP.
- 10 NATIVE FORESTED VEGETATION, PRESERVE & PROTECT DURING CONSTRUCTION, TYP.
- 11 LIMIT OF LANDSCAPE WORK LINE, TYP.
- 12 SEE CIVIL/SURVEY FOR BACK PROPERTY LINE & TOTAL PARCEL AREA, TYP.
- 13 BIKE RACK, SEE DETAIL #1 SHEET L02.00.
- 14 BARK MULCH ONLY AROUND VAULTS AND OTHER UTILITIES THIS AREA.

| <u>SYMBOL</u>                                                                       | <u>BOTANICAL / COMMON NAME</u>                                 | <u>SIZE</u> | <u>CONTAINER</u> |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------|------------------|
| <u>TREES</u>                                                                        |                                                                |             |                  |
|  | ACER CIRCINATUM / VINE MAPLE                                   | 6-7' HT.    | B&B              |
|  | PINUS CONTORTA / SHORE PINE                                    | 6-7' HT.    | B&B              |
|  | PRUNUS SERRULATA 'KWANZAN' / KWANZAN JAPANESE FLOWERING CHERRY | 1.5" CAL.   | B&B              |
|  | PSEUDOTSUGA MENZIESII / DOUGLAS FIR                            | 6-7' HT.    | B&B              |
|  | STEWARTIA PSEUDOCAMELLIA / JAPANESE STEWARTIA                  | 1.5" CAL.   | B&B              |
|  | ULMUS X 'FRONTIER' / FRONTIER ELM                              | 2" CAL.     | B&B              |

|                                                                                     |                                                                 |        |     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------|-----|
|   | ABELIA X GRANDIFLORA 'KALIDOSCOPE' / GLOSSY ABELIA              | 2 GAL. | POT |
|  | AZALEA X 'HINO CRIMSON' / HINO CRIMSON AZALEA                   | 2 GAL. | POT |
|  | BERBERIS THUNBERGII 'GOLDEN RING' / BARBERRY                    | 2 GAL. | POT |
|  | CEANOTHUS 'VICTORIA' / VICTORIA CEANOTHUS                       | 5 GAL. | POT |
|  | CORNUS STOLONIFERA 'CARDINAL' / CARDINAL RED TWIG DOGWOOD       | 2 GAL. | POT |
|  | CORNUS STOLONIFERA 'FLAVIRAMEA' / YELLOWTWIG DOGWOOD            | 2 GAL. | POT |
|  | ILEX CRENATA 'HELLERI' / HELER JAPANESE HOLLY                   | 5 GAL. | POT |
|  | MISCANTHUS SINENSIS 'MORNING LIGHT' / EULALIA GRASS             | 1 GAL. | POT |
|  | NANDINA DOMESTICA 'TUSCAN FLAME' / TUSCAN FLAME HEAVENLY BAMBOO | 2 GAL. | POT |
|  | OSMANthus HETEROPHYLLUS 'GOSHIKI' / GOSHIKI HOLLY OLIVE         | 5 GAL. | POT |
|  | PENNISETUM ALOPECUROIDES 'HAEMEL' / HAEMEL FOUNTAIN GRASS       | 1 GAL. | POT |
|  | POLYSTICHUM MUNITUM / WESTERN SWORD FERN                        | 1 GAL. | POT |
|  | RHODODENDRON X 'PURPLE GEM' / RHODODENDRON                      | 2 GAL. | POT |
|  | RHODODENDRON X 'RAMAPO' / RAMAPO RHODODENDRON                   | 2 GAL. | POT |
|  | ROSA RUGOSA / RUGOSA ROSE                                       | 2 GAL. | POT |
|  | SPIRAEA JAPONICA 'WALBUMA' / MAGIC CARPET SPIREA                | 2 GAL. | POT |
|  | VACCINIUM OVATUM / EVERGREEN HuckleBERRY                        | 2 GAL. | POT |
|  | VIBURNUM PlicATUM 'DOUBLEFILE' / DOUBLEFILE VIBURNUM            | 5 GAL. | POT |

[illegible]

1. SEE SHEET L01.00 FOR PLANTING PLAN, L01.01 FOR FRONT PLAZA PLAN
2. SEE SHEETS L02.00/L02.01 FOR LANDSCAPE DETAILS
3. SEE SHEET L03.00 FOR IRRIGATION PLAN
4. SEE SHEETS L04.00/L04.01 FOR IRRIGATION NOTES & DETAILS
5. SEE SHEETS L05.00-L05.03 FOR TREE RETENTION PLANS

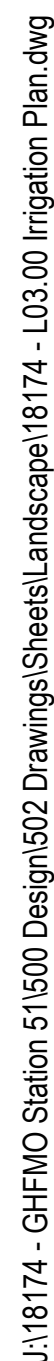

 LAWN AREA TYP. (HYDROSEEDING, SEE SPEC. SECTION 329200)


 TREE PROTECTION AREA, 2" DEPTH BARK MULCH ONLY. NO GROUND DISTURBANCE. ERADICATE EX. GRASSES PRIOR TO MULCHING, TYP. DO NOT BARK MULCH OR DISTURB AREAS BEYOND LIMIT OF WORK, TYP.

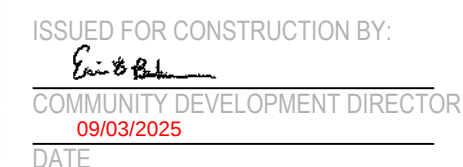
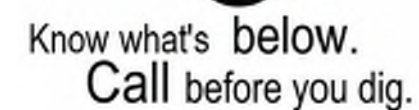
×  
 PROPOSED REMOVED TREE, SEE TREE RETENTION SHEETS L05.00-L05.03.

- - - - -  
 PROPERTY LINE

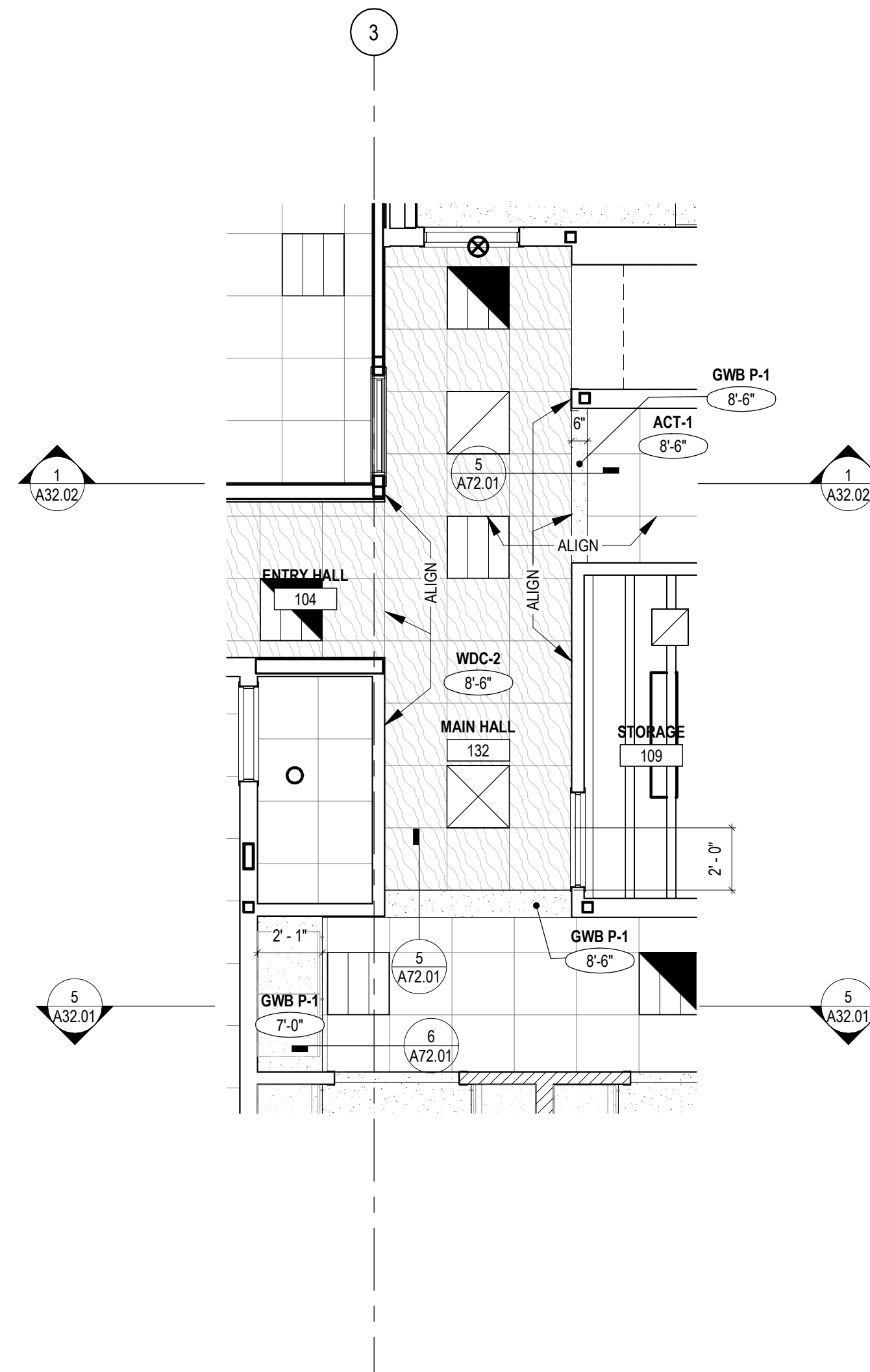
- 1 PROPOSED NEW 1" DEDICATED IRRIGATION WATER METER USING EX. METER STUBOUTS, SEE SHEET C05.11.
- 2 POINT OF CONNECTION AT NEW 1" METER, SEE LEGEND AND DETAIL #1 SHEET L04.01.
- 3 AUTOMATIC CONTROLLER MOUNTED ON OUTSIDE WALL , INSTALL RAIN SENSOR IN A WEATHER EXPOSED LOCATION. COORDINATE POWER w/ ELECTRICAL CONTRACTOR & OWNER'S REPRESENTATIVE.
- 4 SCH. 40 SLEEVE UNDER HARDSCAPES. SIZE AS SHOWN, SEE DETAIL #2 SHEET L04.00, TYP.
- 5 AUTOMATIC CONTROL VALVE, SEE DETAIL #7 SHEET L04.01, TYP.
- 6 MANUAL DRAIN VALVE (MAINLINE). SEE DETAIL #1 SHEET L04.01.
- 7 LIMIT OF WORK LINE, TYP.
- 8 SYSTEM DESIGN IS DIAGRAMMATIC, LOCATE PIPING AND OTHER IRRIGATION EQUIPMENT IN SLEEVES, LAWN OR BED AREAS (BED AREAS PREFERABLE), TYP.
- 9 PRESERVE AND PROTECT EX. VEGETATION TO REMAIN DURING CONSTRUCTION, TYP.
- 10 EX. FRONTAGE UTILITIES TO REMAIN, SURROUND WALL ADDED. SEE SHEET L01.00 & DETAIL SHEET L02.02, TYP.



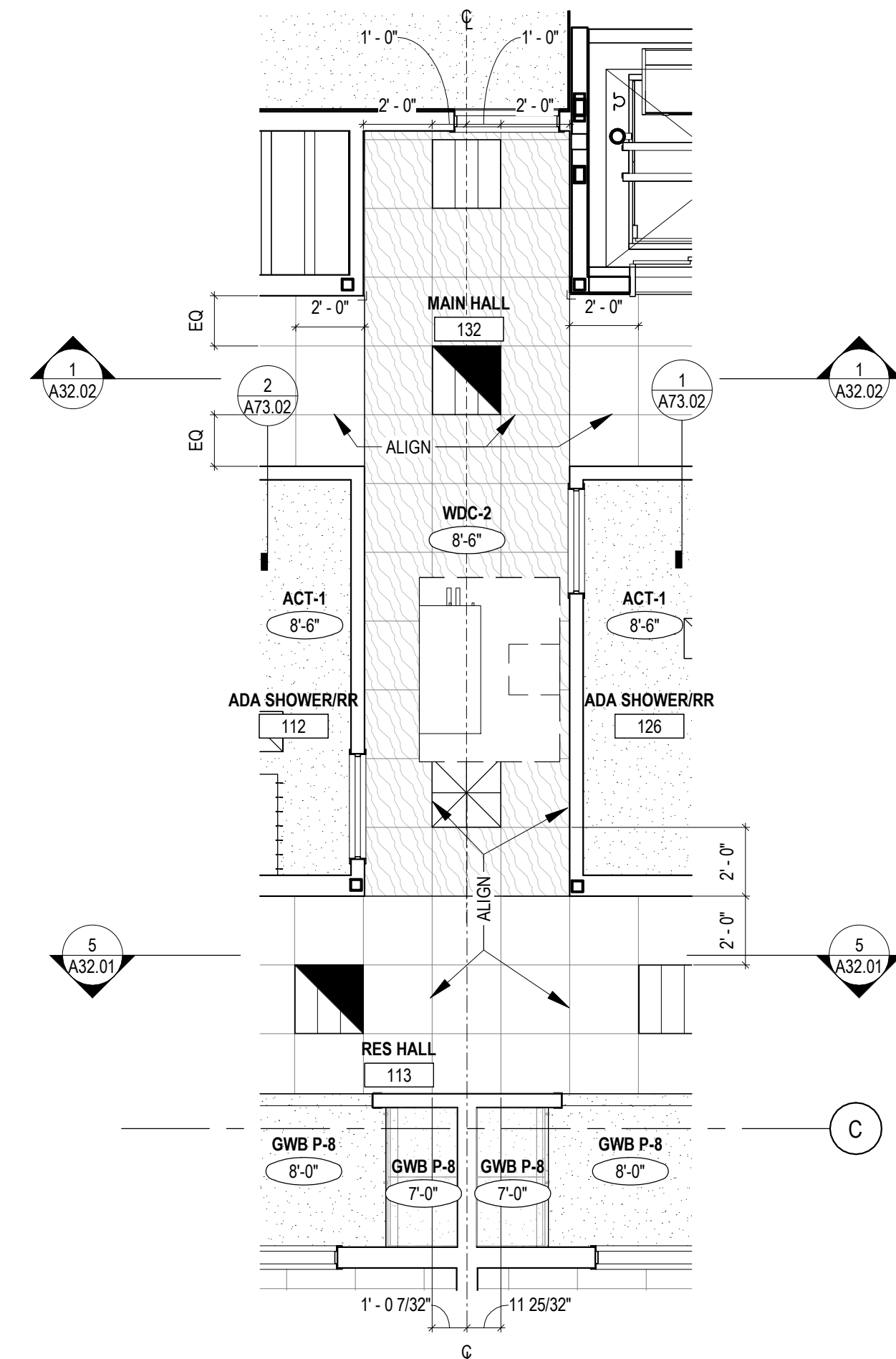
| SYMBOL                                                                                | DESCRIPTION           | GPM  | PSI | RADIUS | SHEET # |
|---------------------------------------------------------------------------------------|-----------------------|------|-----|--------|---------|
|                                                                                       | SPRAY HEADS           |      |     |        |         |
|    | RAINBIRD 1800-SAM-5Q  | .10  | 30  | 5'     | L04.01  |
|    | RAINBIRD 1800-SAM-5H  | .20  | 30  | 5'     | L04.01  |
|    | RAINBIRD 1800-SAM-5F  | .41  | 30  | 5'     | L04.01  |
|    | RAINBIRD 1800-SAM-8Q  | .26  | 30  | 8'     | L04.01  |
|    | RAINBIRD 1800-SAM-8H  | .52  | 30  | 8'     | L04.01  |
|    | RAINBIRD 1800-SAM-8F  | 1.05 | 30  | 8'     | L04.01  |
|    | RAINBIRD 1800-SAM-10Q | .39  | 30  | 10'    | L04.01  |
|    | RAINBIRD 1800-SAM-10H | .79  | 30  | 10'    | L04.01  |
|    | RAINBIRD 1800-SAM-10F | 1.58 | 30  | 10'    | L04.01  |
|    | RAINBIRD 1800-SAM-12Q | .65  | 30  | 12'    | L04.01  |
|    | RAINBIRD 1800-SAM-12H | 1.30 | 30  | 12'    | L04.01  |
|    | RAINBIRD 1800-SAM-12F | 2.60 | 30  | 12'    | L04.01  |
|    | RAINBIRD 1800-SAM-15Q | .92  | 30  | 15'    | L04.01  |
|    | RAINBIRD 1800-SAM-15H | 1.85 | 30  | 15'    | L04.01  |
|    | RAINBIRD 1800-SAM-15F | 3.70 | 30  | 15'    | L04.01  |
|    | RAINBIRD 15-EST       | .61  | 30  | 4X15'  | L04.01  |
|   | RAINBIRD 15-SST       | 1.21 | 30  | 4X30'  | L04.01  |
| ROTARY NOZZLES (ON SPRAY HEADS)                                                       |                       |      |     |        |         |
|  | RAINBIRD 1800-RVAN14  | .32  | 45  | 8-14'  | L04.01  |
|  | RAINBIRD 1800-RVAN14  | .63  | 45  | 8-14'  | L04.01  |
|  | RAINBIRD 1800-RVAN14  | 1.27 | 45  | 8-14'  | L04.01  |
|  | RAINBIRD 1800-RVAN18  | .50  | 45  | 13-18' | L04.01  |
|  | RAINBIRD 1800-RVAN18  | 1.01 | 45  | 13-18' | L04.01  |
|  | RAINBIRD 1800-RVAN18  | 1.85 | 45  | 13-18' | L04.01  |
|  | RAINBIRD 1800-RVAN24  | .84  | 45  | 17-24' | L04.01  |
|  | RAINBIRD 1800-RVAN24  | 1.68 | 45  | 17-24' | L04.01  |
|  | RAINBIRD 1800-RVAN24  | 3.48 | 45  | 17-24' | L04.01  |



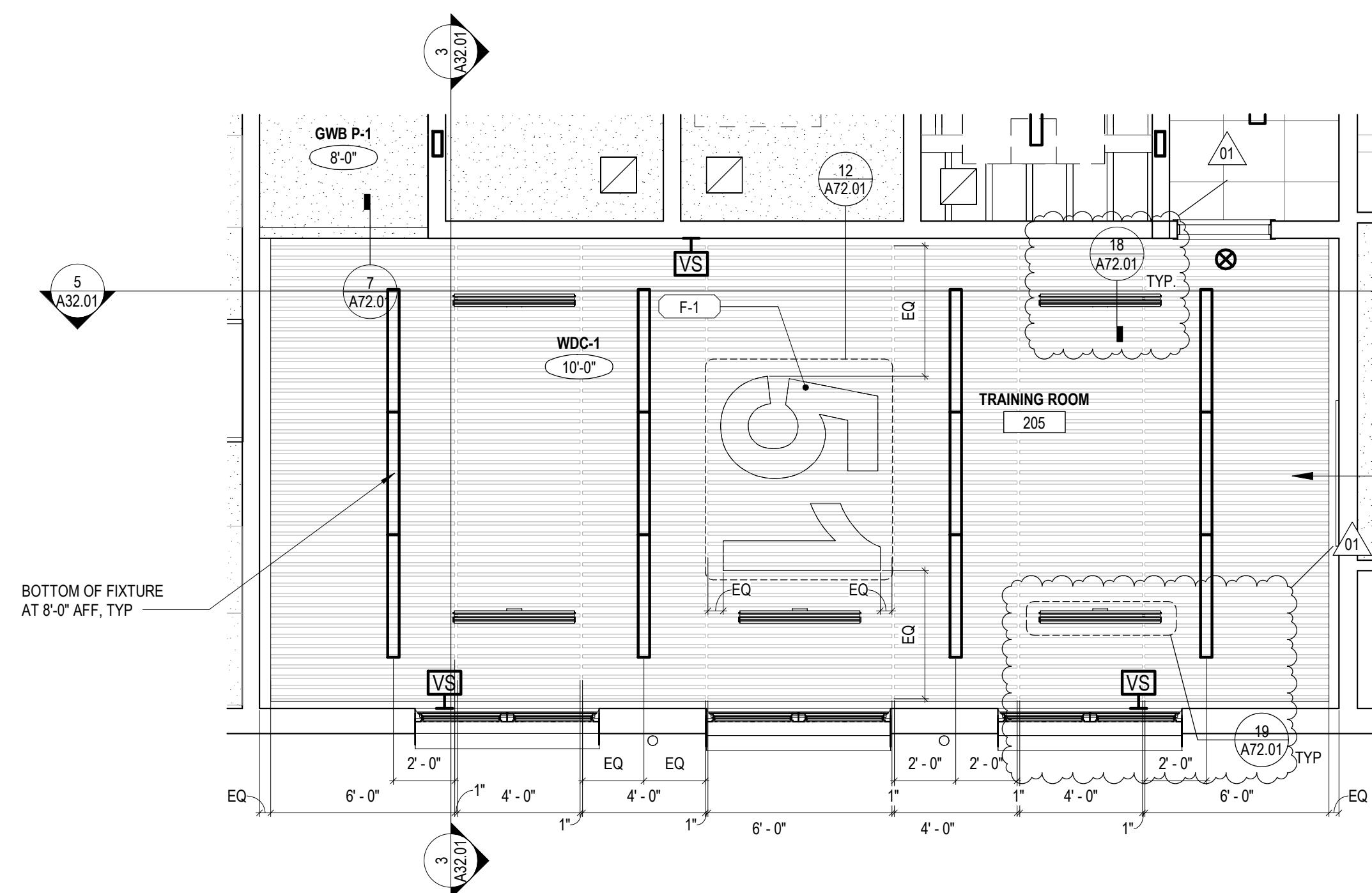
# L03.00



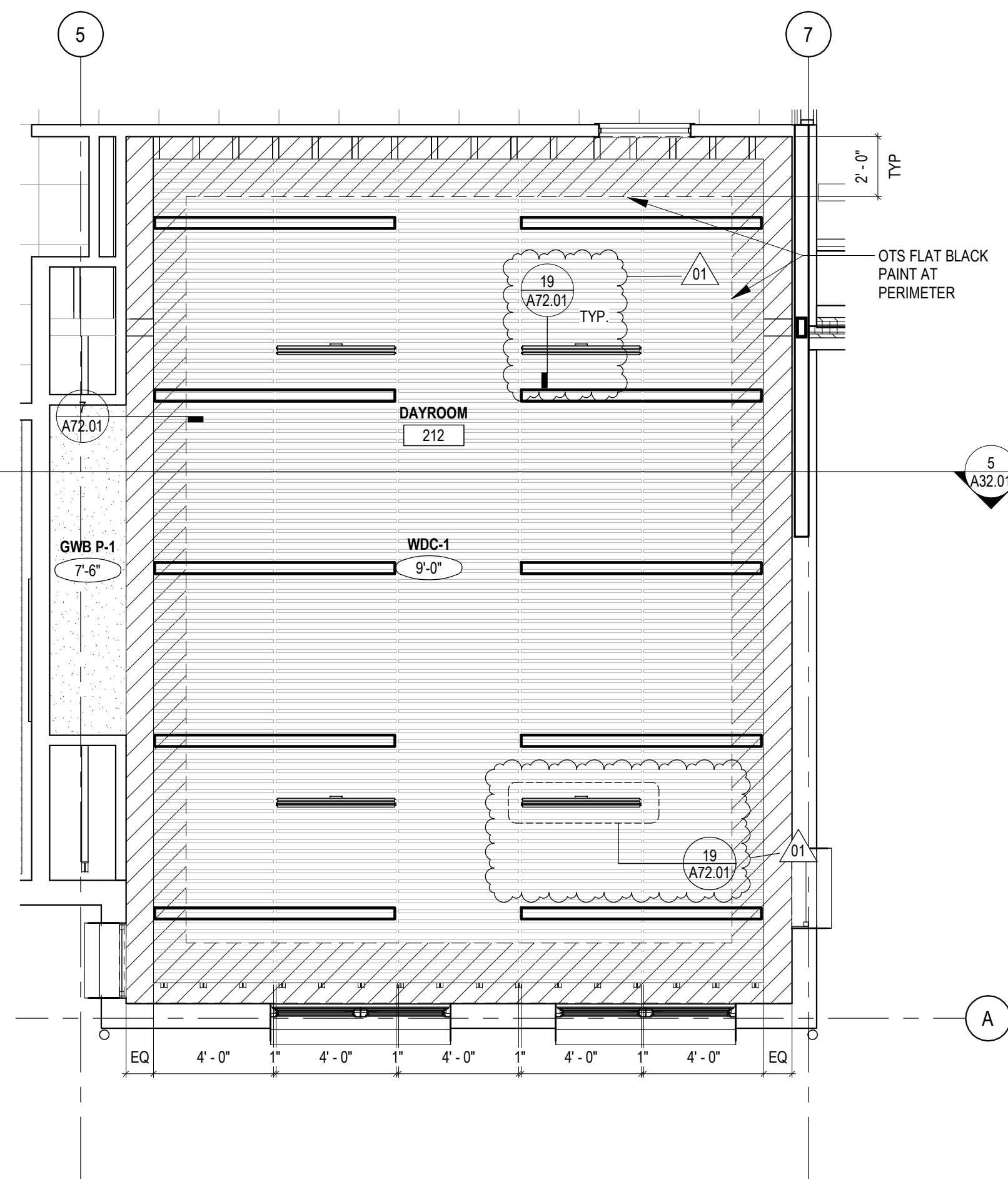
4 ENLARGED RCP - MAIN/RES HALL WEST  
1/4" = 1'-0"



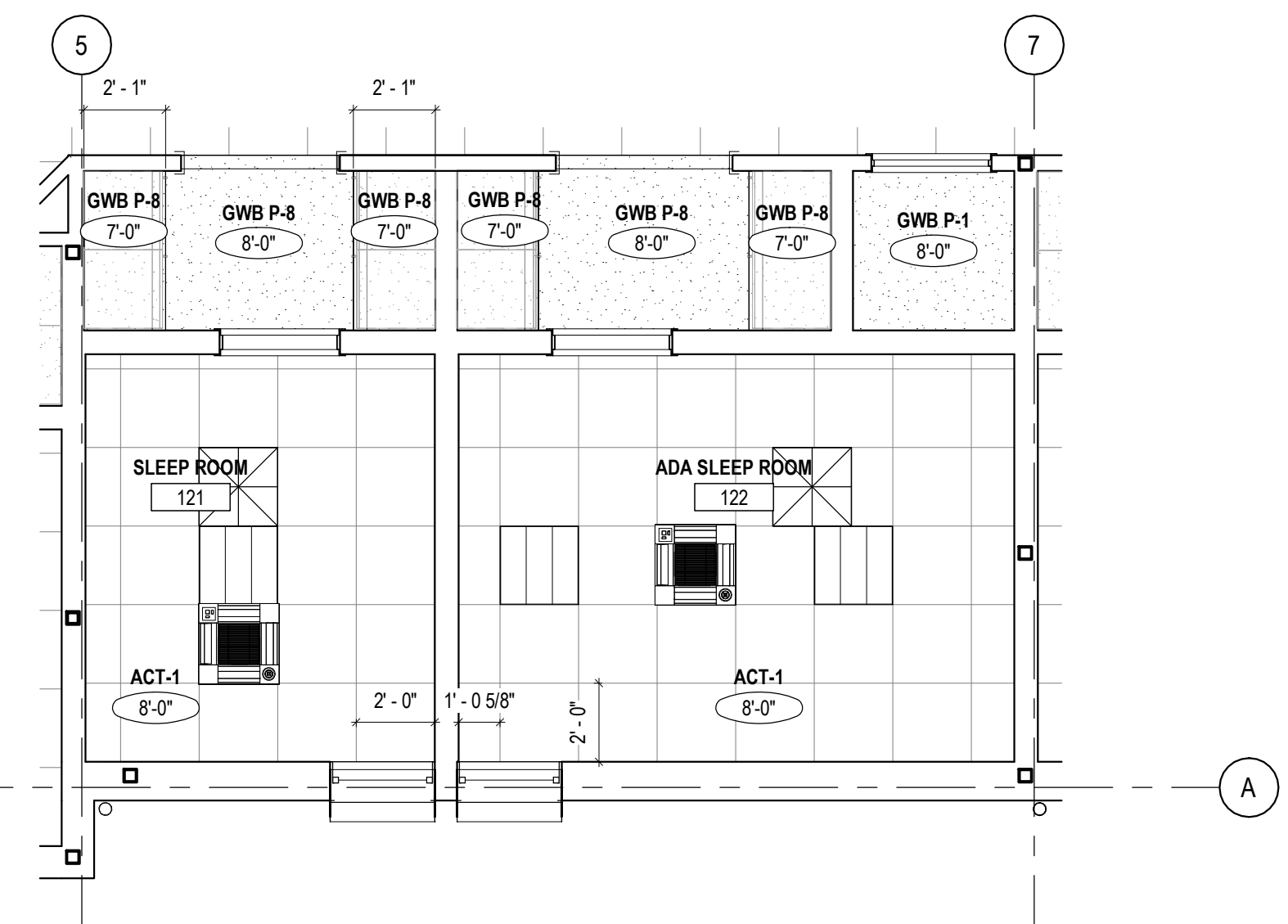
2 ENLARGED RCP - MAIN/RES HALL CENTER  
1/4" = 1'-0"



5 ENLARGED RCP - TRAINING ROOM  
1/4" = 1'-0"



3 ENLARGED RCP - DAYROOM  
1/4" = 1'-0"



1 ENLARGED RCP - TYP SLEEP ROOM  
1/4" = 1'-0"

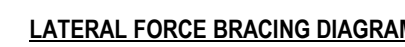
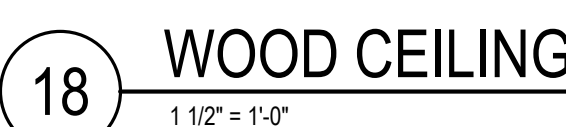
|                   |              |                 |
|-------------------|--------------|-----------------|
| PROJECT #         |              | 2022011         |
| BID SET           |              |                 |
| ISSUE DATE        |              | AUGUST 15, 2025 |
| REVISION SCHEDULE |              |                 |
| 01                | ADDENDUM #01 | 9/5/2025        |
|                   |              |                 |
|                   |              |                 |
|                   |              |                 |
|                   |              |                 |
|                   |              |                 |
|                   |              |                 |
|                   |              |                 |
|                   |              |                 |

AHJ APPROVAL STAMP

ENLARGED  
REFLECTED CEILING  
PLANS

SHEET #

**A28.01**



| <u>MARK</u> | <u>ITEM</u> | <u>MFR: MODEL</u>                                                                                                                        | <u>DESCRIPTION</u>                                                                                |
|-------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| S-3         | SINK        | <div>            ELKAY:<br/>ELUHAD141450         </div> | 16-1/2"X16-1/2"X4-7/8" (14"X14"X4-7/8 BOWL DIM.) UNDERMOUNT, 304 STAINLESS STEEL, 18 GAUGE, ADA.  |
|             | FAUCET      | <div>           GERBER:<br/>G0049372         </div>                                                                                      | 9-13/16" SPOUT HEIGHT, 4-9/16" SPOUT REACH, 3-HOLE, 4" CENTERSET, GOOSNECK FAUCET, 1.75 GPM, ADA. |
|             | DRAIN       |                                                                                                                                          | PERFORATED STRAINER.                                                                              |
| PF-1        | POT FILLER  | <div>           CHICAGO:<br/>332-DJ24ABCP         </div>                                                                                 | 24" DOUBLE-JOINTED SWING SPOUT, VANDAL PROOF 2-3/8" LEVER HANDLE, 1/2" CW CONNECTION, ADA.        |



**SIDER + BYERS**

MECHANICAL + ELECTRICAL ENGINEERS

150 Nickerson, Suite #305  
Seattle, Washington 98109  
Phone: 206.285.2966

## GIG HARBOR FS 51

|                 |        |        |
|-----------------|--------|--------|
| Project number  | 23023  | PSK-1  |
| Date            | 9.5.25 |        |
| Reference Sheet | P00.03 |        |
| Scale           |        | N.T.S. |

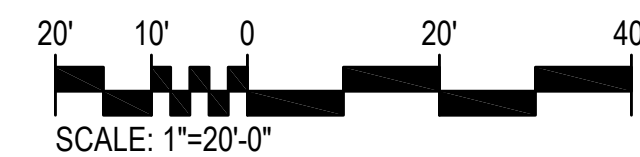
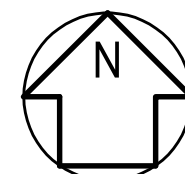
1. ALL HANDHOLES SHALL BE FOG-TITE TYPE 1 WITH GALVANIZED LIDS.
2. E.C. TO PROVIDE ALL TRENCHING, BACKFILL AND COMPACTION FOR INSTALLATION OF ALL CONDUITS
3. E.C. TO COORDINATE WITH PENINSULA LIGHT FOR INSTALLATION OF SERVICE AND INSTALL PER PENINSULA LIGHT REQUIREMENTS.
4. PROVIDE #10 AWG MINIMUM FOR ALL EXTERIOR 120 VOLT CIRCUITS.

- ① POWER AND SYSTEMS HANDHOLE FOR FUTURE MOTORIZED GATE
- ② EV CHARGING STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH IN. PROVIDE DUAL PORT 208V, 10, 40A WEATHERPROOF CONNECTION AND INSTALL OWNER PROVIDED CHARGING STATION. PROVIDE 1" CONDUIT WITH (3) #8 CU. AND (1) #10 CU. GND. BACK TO PANEL AND CIRCUIT INDICATED.
- ③ EV READY PARKING SPACE. PROVIDE (2) NEMA 14-50R RECEPTACLES AND (2) 1" CONDUIT WITH (3) #8 CU. AND (1) #10 CU. GND. BACK TO PANEL AND CIRCUIT INDICATED. INSTALL IN METALLIC, PAD LOCKABLE, WHILE-IN-USE WEATHER RESISTANT ENCLOSURE ON CEDAR POST ABOVE FINISHED GRADE. SEE DETAIL 7 ON SHEET E7.01.
- ④ EV CAPABLE PARKING SPACE. PROVIDE WEATHER RESISTANT BELL BOX 3" ABOVE GRADE AND (1) 1" CONDUIT WITH PULLSTRING BACK TO PANEL. EV FOR FUTURE EV CHARGER.
- ⑤ (3) 4" CONDUITS TO RIGHT-OF-WAY WITH PULL ROPE IN EACH FOR INTERNET SERVICE PROVIDER, PHONE, AND SPARE. COORDINATE WITH GH&M ID DEPT FOR BACK PULLING EXISTING SERVICE. EXACT SERVICE LOCATION(S) FOR NEW POINT OF CONNECTION, AND NEW ROUTE(S) PRIOR TO SITE DEMOLITION.

- 6 LIGHTING FIXTURE RECESSED IN CONCRETE. SEE SHEET L02.02. COORDINATE LIGHT FIXTURE EXACT LOCATION WITH LANDSCAPE CONTRACTOR PRIOR TO ROUGH-IN.
- 7 UNDERGROUND STORM WATER SYSTEM. ALL CONDUITS TO BE ROUTED AROUND THE DETENTION SYSTEM. COORDINATE WITH CIVIL SHOP DRAWINGS FOR EXACT LAYOUT.
- 8 1" C.O. WITH PULL STRING TO ELECTRICAL ROOM FOR THE FUTURE MOTORIZED GATE.
- 9 POWER PEDESTAL. PROVIDE LEGRAND WIREMOLD MODEL XCSP2P2RGR-BK.
- 10 FUEL MANAGEMENT SYSTEM. COORDINATE EXACT LOCATION WITH FUEL MANAGEMENT SYSTEM INSTALLER. ELECTRICAL CONTRACTOR SHALL COORDINATE AND PROVIDE ADDITIONAL WIRING AND CONDUITS BETWEEN THE FUEL DISPENSERS AND MANAGEMENT SYSTEM.
- 11 OFCI FUEL DISPENSER. VERIFY EXACT POWER REQUIREMENTS PRIOR TO ROUGH-IN.
- 12 ALL INSTALLATION AND WIRING SHALL COMPLY WITH NEC514 MOTOR FUEL DISPENSING FACILITIES. PROVIDE REQUIRED SEALS AND FITTING S PER CODE AND INSTALLATION MANUAL.
- 13 OFCI DEF DISPENSER. VERIFY EXACT POWER REQUIREMENTS PRIOR TO ROUGH-IN.

- 14 4P-800A AUTOMATIC TRANSFER SWITCH SERVICE ENTRANCE RATED. PROVIDE A CONCRETE HOUSEKEEPING PAD.
- 15 (2) 1" C.O. WITH PULL STRING TO ELECTRICAL ROOM /MDF FOR FUTURE MOTORIZED GATE.
- 16 (1) 1" C.O. WITH PULL STRING TO FIRE ALARM CONTROL PANEL FOR PIV MONITORING. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- 17 (1) 1" C.O. WITH PULL STRING TO FUEL MANAGEMENT SYSTEM FROM ELECTRICAL ROOM/MDF. COORDINATE EXACT LOCATION WITH FUEL MANAGEMENT SYSTEM INSTALLER.
- 18 PROVIDE 4'X6'10" GALVANIZED SQUARE TUBING AND UNISTRUT FOR METER MOUNTING. PROVIDE A CONCRETE HOUSEKEEPING PAD.
- 19 EMERGENCY FUEL SHUT-OFF BUTTON. PROVIDE CONNECTION TO THE FUEL PUMP.
- 20 PROVIDE CONNECTION TO GENERATOR BATTERY CHARGER.
- 21 PROVIDE CONNECTION TO GENERATOR BLOCK HEATER. VERIFY EXACT POWER REQUIREMENTS WITH GENERATOR SUBMITTALS PRIOR TO ROUGH-IN.
- 22 PROVIDE CONDUIT AND WIRING FOR ATS CONTACT TO ELEVATOR CONTROL PANEL. CONTACT TO CLOSE 20 SECONDS PRIOR TO TRANSFER IN EITHER DIRECTION AND OPEN WHEN TRANSFER IS COMPLETE.

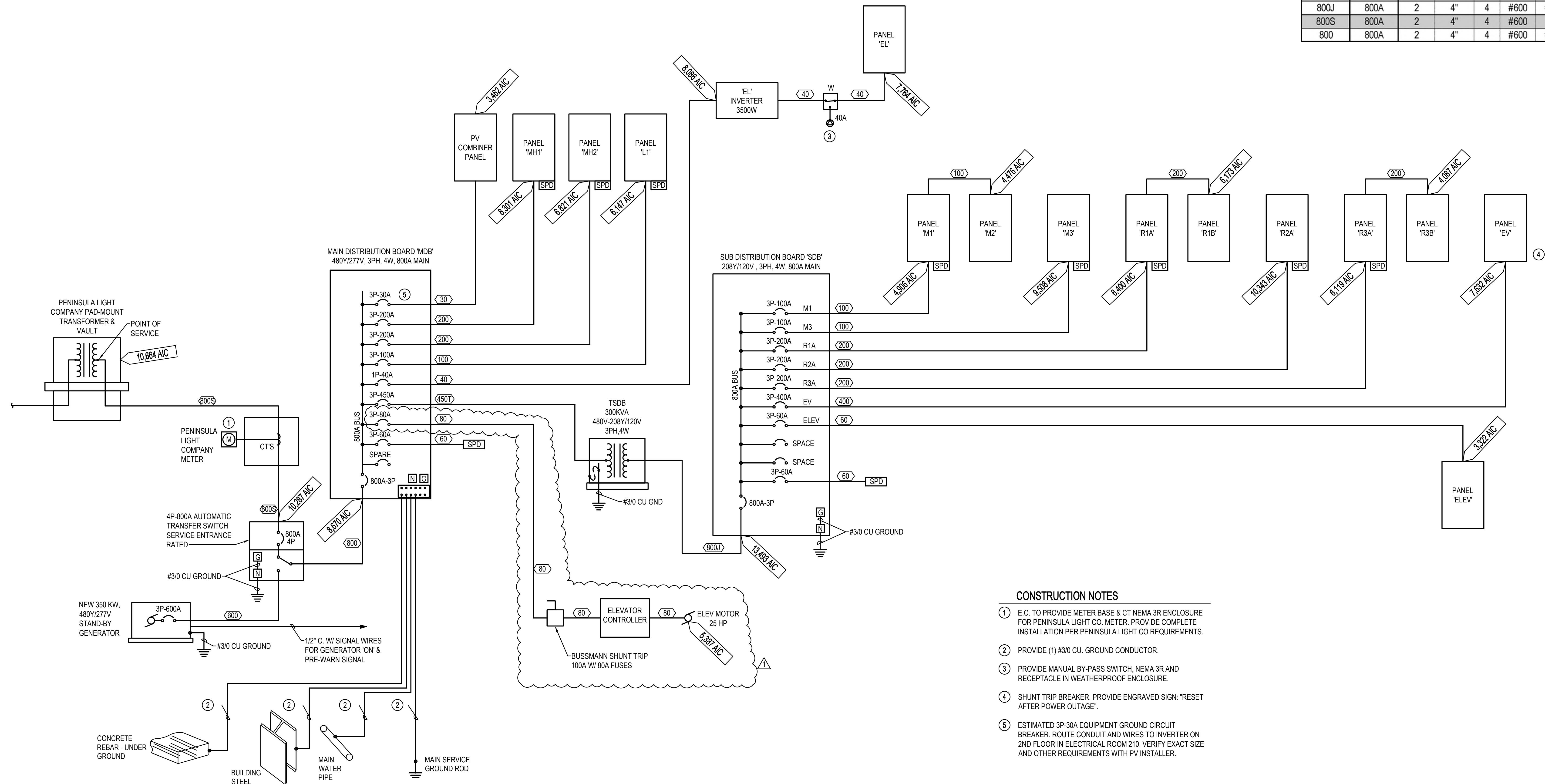
- (23) PROVIDE SERVICE CONDUITS. SEE ONE-LINE DIAGRAM ON SHEET E61.00.
- (24) PROPOSED PENINSULA LIGHT TRANSFORMER AND VAULT LOCATION. COORDINATE FINAL TRANSFORMER LOCATION WITH PENINSULA LIGHT PRIOR TO ROUGH-IN. PROVIDE EXCAVATION FOR UTILITY VAULT.
- (25) PROVIDE TRENCHING, SAND-BEDDING, AND BACKFILL FROM UTILITY PRIMARY JUNCTION BOX TO UTILITY PAD-MOUNT TRANSFORMER. COORDINATE ALL WORK, INCLUDING TRENCHING ROUTE AND ASSOCIATED EARTHWORK WITH PENINSULA LIGHT PRIOR TO STARTING CONSTRUCTION. PENINSULA LIGHT TO SUPPLY AND INSTALL CONDUIT AND WIRES.
- (26) PROVIDE 1" CONDUIT FROM ATS TO PANEL "EV" IN ELECTRICAL ROOM 150 FOR SHUNT TRIP BREAKER.
- (26) POWER FOR HOTBOX ON THE RPZA BACKFLOW PREVENTOR. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS WITH CIVIL PRIOR TO ROUGH-IN.
- (27) EV READY PARKING SPACE. PROVIDE A NEMA 14-50R RECEPTACLE AND 1" CONDUIT WITH (3) #6 CU. AND (1) #10 CU. GND BACK TO PANEL AND CIRCUIT INDICATED. INSTALL IN METALLIC, PAD LOCKABLE, WHEEL-IN-USE WEATHER RESISTANT ENCLOSURE ON CEDAR POST ABOVE FINISHED GRADE. SEE DETAIL 8 ON SHEET E71.07.





**GIG HARBOR FIRE STATION 51**  
**GIG HARBOR FIRE & MEDIC ONE**  
6711 KIMBALL DRIVE  
GIG HARBOR, WA 98335

| FEEDER SCHEDULE |          |        |         |   |      |      |
|-----------------|----------|--------|---------|---|------|------|
|                 |          |        | Copper  |   |      |      |
| ID              | Ampacity | # Each | Conduit | # | AWG  | GND  |
| 20              | 20A      | 1      | 3/4"    | 2 | #12  | #12  |
| 40              | 40A      | 1      | 1"      | 2 | #8   | #10  |
| 60              | 60A      | 1      | 1 1/4"  | 4 | #4   | #10  |
| 70              | 70A      | 1      | 1 1/4"  | 4 | #4   | #8   |
| 80              | 80A      | 1      | 1 1/2"  | 4 | #3   | #8   |
| 100             | 100A     | 1      | 1 1/2"  | 4 | #1   | #8   |
| 150             | 150A     | 1      | 1 1/2"  | 4 | #1/0 | #6   |
| 200             | 200A     | 1      | 2"      | 4 | #3/0 | #6   |
| 400             | 400A     | 1      | 4"      | 4 | #600 | #3   |
| 450T            | 450      | 2      | 2 1/2"  | 3 | #4/0 | #2   |
| 600             | 600A     | 2      | 3"      | 4 | #350 | #1   |
| 800J            | 800A     | 2      | 4"      | 4 | #600 | #3/0 |
| 800S            | 800A     | 2      | 4"      | 4 | #600 |      |
| 800             | 800A     | 2      | 4"      | 4 | #600 | #1/0 |



① E.C. TO PROVIDE METER BASE & CT NEMA 3R ENCLOSURE FOR PENINSULA LIGHT CO. METER. PROVIDE COMPLETE INSTALLATION PER PENINSULA LIGHT CO REQUIREMENTS.

- ② PROVIDE (1) #3/0 CU. GROUND CONDUCTOR.
- ③ PROVIDE MANUAL BY-PASS SWITCH, NEMA 3R AND RECEPTACLE IN WEATHERPROOF ENCLOSURE.
- ④ SHUNT TRIP BREAKER, PROVIDE ENGRAVED SIGN: "RESET AFTER POWER OUTAGE".
- ⑤ ESTIMATED 3P-30A EQUIPMENT GROUND CIRCUIT BREAKER, ROUTE CONDUIT AND WIRES TO INVERTER ON 2ND FLOOR IN ELECTRICAL ROOM 210. VERIFY EXACT SIZE AND OTHER REQUIREMENTS WITH PV INSTALLER.

1 ONE-LINE DIAGRAM  
SCALE: DIAGRAMMATIC

[illegible]

### ONE-LINE DIAGRAM

SHEET #

**€61.00**