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Jefferson County Early Learning and Family Support Center

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CONTENTS

3 copies (full size)

- Survey
- Civil Drawings
- Landscape Drawings
- Architectural Site Plan

1 copy (letter sized)

- All drawings listed above.
- Critical Areas Permit Application
- Property Deed
- Geotech Report
- Vicinity Map

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DEEDS

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✓ Beg at a point on the east side line of Pierce St in P. T., distant 100 feet North from the NE corner of Pierce and Blaine Streets and running thence North along said Pierce St 150 feet; thence at a ra East 285.8 feet; thence at a ra South 250 feet to Blaine St; thence at a ra West along the North line of said Blaine Street 135.8 feet; thence at a ra North 100 feet and thence at a ra West 150 feet to the pob.

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GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

**GEOTECHNICAL ENGINEERING INVESTIGATION
JEFFERSON COUNTY EARLY LEARNING CENTER
1500 VAN NESS STREET
PORT TOWNSEND, WASHINGTON**

**PROJECT NO. 102-23021
OCTOBER 5, 2023
REVISED JANUARY 31, 2024**

Prepared for:

**OLYMPIC PENINSULA YMCA
ATTN: MS. WENDY BART
675 NORTH 5TH AVENUE, SUITE 3A
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Prepared by:

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GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

October 5, 2023
Revised January 31, 2024

KA Project No. 102-23021

Olympic Peninsula YMCA
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Sequim, Washington 98382

Attn: Ms. Wendy Bart
Email: wendy@olympicpeninsulaymca.org
Tel: (360) 504-0526

Reference: Geotechnical Engineering Services
Jefferson County Early Learning Center
1500 Van Ness Street
Port Townsend, Washington

Dear Ms. Bart,

In accordance with your request, we have completed a Geotechnical Engineering Investigation for the referenced site. The results of our investigation are presented in the attached report.

If you have any questions, or if we can be of further assistance, please do not hesitate to contact our office.

Respectfully submitted,
KRAZAN & ASSOCIATES, INC.



Vijay Chaudhary, P.E.
Project Engineer

AG:EA:VC:SEW

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October 5, 2023
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**GEOTECHNICAL ENGINEERING INVESTIGATION
JEFFERSON COUNTY EARLY LEARNING CENTER
1500 VAN NESS STREET
PORT TOWNSEND, WASHINGTON**

INTRODUCTION.

This report presents the results of our geotechnical engineering investigation for the Proposed Jefferson County Early Learning Center project located at 1500 Van Ness Street in Port Townsend, Washington, as shown on the Vicinity Map in Figure 1. Discussions regarding site conditions are presented in this report, together with conclusions and recommendations pertaining to site preparation, excavations, structural fill, utility trench backfill, foundations, pavement design, stormwater infiltration, drainage, and erosion control.

For our use in preparing this report, we have reviewed the plan sheet A100 titled “Jefferson County Early Learning Center”, prepared by Present Future Architects, dated May 25, 2023, a topographic survey, prepared by Van Aller Surveying, dated July 27, 2023.

A site plan showing approximate locations of the explorations is presented following the text of this report in Figure 2. A description of the field investigation and laboratory testing as well as the exploration logs are presented in Appendix A. Appendix B contains a guide to aid in the development of earthwork specifications. Pavement design guidelines are presented in Appendix C. The recommendations in the main text of the report have precedence over the more general specifications in the appendices

PURPOSE AND SCOPE.

This investigation was conducted to evaluate the subsurface soil and groundwater conditions at the subject property, to develop geotechnical engineering recommendations for use in the design of specific construction elements, and to provide criteria for site preparation and earthwork construction.

Our scope of services was performed in general accordance with our proposal for this project, dated August 2, 2023 (Proposal Number G23028WAP) and included the following:

- An exploration of the subsurface soil and groundwater conditions by advancing four (4) soil borings to a maximum depth of 31.5 feet below existing ground surface (bgs) using a subcontracted drill rig;

- An exploration of the subsurface soil and groundwater conditions by excavating two (2) test pits to a maximum depth of 7.5 feet bgs using a subcontracted excavator and operator;
- Provide a site plan showing the soil boring and test pit locations;
- Provide comprehensive boring and test pit logs including soil stratification and classification, and groundwater levels where applicable;
- Perform one (1) Large-Scale Pilot Infiltration Test (PIT) and provide opinions and recommendations regarding stormwater infiltration feasibility in accordance with Volume V, Chapter 5 of the 2019 Department of Ecology (DOE) Stormwater Management Manual for Western Washington (SWMMWW);
- Provide foundation recommendations for the proposed structures including foundation type, allowable bearing pressure, anticipated settlements (both total and differential), coefficient of horizontal friction, and frost penetration depth;
- Provide recommendations for seismic design considerations including site coefficient and ground acceleration based on the 2018 IBC;
- Provide recommendations for retaining wall design including lateral earth pressures (active and passive);
- Provide recommendations for structural fill materials, placement, and compaction;
- Provide recommendations regarding the suitability of on-site soils as structural fill;
- Discuss potential geological hazards and provide mitigation recommendations as applicable;
- Provide recommendations for temporary excavations;
- Provide recommendations for site drainage and erosion control;
- Provide recommendations for pavement design.

Environmental services, such as chemical analysis of soil and groundwater for possible environmental contaminants, are not included in our scope of services for this project.

PROPOSED DEVELOPMENT

We understand that the site development will include design and construction of one commercial buildings with an associated parking lot and driveway. We understand that development will also consist of design

and construction of associated utilities, bioswale, and landscape areas. We understand that onsite stormwater management is being considered.

SITE DESCRIPTION AND SURFACE CONDITIONS

The site is situated within the southeastern portion of a developed assessor parcel 001023006. The parcel covers an area of approximately 6.52 acres. The site is bordered by Harrison Street to the East, Blaine Street to the south, a paved access road to the west, ancillary school structures to the north. The site can be accessed via the paved road to the west.

The parcel is currently developed with school buildings, shed/ storage buildings, tennis courts, a gazebo, sidewalks, and paved parking and landscaped areas. The site is currently vacant field and appears to be previously graded. The site is generally flat at an elevation of approximately 192 feet with a steep, east-descending slope in the northeastern portion of the site. The steep slope is about 30 to 33 degrees (57 to 66 percent), with elevations ranging from approximately 190 feet to 165 feet. The slope along the eastern portion of the site is heavily vegetated with brush, brambles, and a few young to middle-aged trees. The remainder of the site is vegetated with grasses. There were two small concrete pads near the top of the slope in the northeastern portion of the site. We did not observe visual signs of shallow soil movement or soil creep along the slope, such as minor sloughing and curved tree trunks. We did not observe signs of significant erosion or accumulation of surface water during our site visit.

GEOLOGIC SETTING

The Geologic Map of Jefferson County Washington, (WA DNR Open File Report 2005-3, December 2005) indicates that the site vicinity is underlain by continental glacial till (Qgt) deposits. Glacial till is a compact deposit of clay, silt, sand, gravel, cobbles and boulders deposited at the base of the continental glacier. The soils exposed in our explorations were generally consistent with the mapped geology.

FIELD INVESTIGATION

Exploratory soil borings and test pits were completed to evaluate the subsurface soil and groundwater conditions at the site. The approximate locations of the explorations are shown on the Site Plan in Figure 2.

Soil Borings: Four (4) exploratory soil borings, designated B-1 through B-4 were completed on August 28, 2023 with a subcontracted drill rig. The soil borings were advanced to depths of approximately 9.0 to 31.5 feet bgs.

Test Pits: Test pits TP-1 and TP-2 was completed on August 28, 2023 with a subcontracted excavator and operator. The test pits were excavated to depths of about 6.0 to 7.5 feet bgs.

Large-Scale Pilot Infiltration Test (PIT): We performed one (1) Large-Scale PIT in accordance with the DOE 2019 SWMMWW, Volume V, Chapter 5. The PIT was performed at roughly 2 feet bgs in TP-1. The

area exposed for the PIT was at least 100 square feet. The testing included a pre-soak period, followed by determination of a steady-state infiltration rate and then a falling head infiltration rate testing. After the PIT was completed, the test pit was over-excavated to approximately 5.5 feet below the test elevation to document whether any restrictive layers or groundwater seepage were present.

A geologist from Krazan and Associates was present during the exploration, examined the soil and geologic conditions encountered, obtained samples of the different soil types, and maintained logs of the explorations. Representative samples of the subsurface soils encountered in the geotechnical explorations were collected and sealed in plastic bags. The soils encountered in the exploration were visually classified in general accordance with the Unified Soil Classification System (USCS). These samples were transported to our laboratory for further examination and testing.

SOIL PROFILE AND SUBSURFACE CONDITIONS

This section of the report is intended to provide a general description of the subsurface conditions. Detailed descriptions of the soils exposed in each of the explorations are presented in the exploration logs in Appendix A.

Undocumented Fill: Soil boring B-1, encountered moist, loose to medium dense brown to grayish brown silty sand with gravel to about 11.5 feet bgs, which was interpreted as undocumented fill.

Native Glacial Soils: Our explorations of the site generally encountered/exposed moist, medium dense to very dense, grayish brown to gray silty sand with gravel, brown to light brown sand with silt and gravel, and gray sand extending to the explored depths of 31.5 feet bgs. We interpreted these soils to be native glacial deposits. Cobbles and boulders were also encountered/exposed within this stratum.

Groundwater Observations: Groundwater seepage was not encountered during our explorations.

GEOLOGIC HAZARDS

Erosion Concern/Hazard

The Natural Resources Conservation Services (NRCS) map for the Jefferson County Area, Washington (WA635), classifies the site area as following:

- Townsend gravelly sandy loam (0 to 15 percent slopes), Hydrologic soil group C;

Hydrologic soil group C soils have moderate erosion potential when disturbed. These soils may erode rapidly if water is allowed to concentrate on steep slopes.

Based on our review of the City of Port Townsend Municipal Code, the existing slopes in the northeastern portion of the site would be considered erosion hazard area due to the steepness. During our site visit, we

did not observe signs of significant erosion along the slopes. Based on our explorations and visual site reconnaissance, it is our opinion that the proposed development will not adversely impact the erosion potential, provided that our recommendations are followed for both design and construction of the project. It has been our experience that soil erosion due to wind can be minimized by limiting the amount of stripped soil areas exposed during construction activities, frequently wetting the surface soils during construction, and with proper landscaping of the site following completion of construction. Typically, erosion of exposed soils will be most noticeable during periods of rainfall. The potential for erosion may be mitigated by the use of temporary erosion control measures, such as silt fences, hay bales, straw wattles, mulching, control ditches or diversion trenching, and contour furrowing. The walls of excavations should be covered with plastic sheeting, or other erosion control surfacing during periods of rainfall. Erosion control measures should be in place before the onset of wet weather. To minimize erosion concerns, the Erosion and Sediment Control section of this report should be followed. Stormwater runoff should not be allowed to flow over or concentrate on the steep slopes in the northeast portion of the site.

Landslide Hazard

We have reviewed the Washington State Department of Natural Resources (WADNR), Department of Energy (DOE), and Jefferson County published and interactive maps. The WADNR does not show any landslides mapped near the site vicinity. The DOE Coastal Zone Atlas map extends to the southern-half of the site and shows stable slopes. However, the steep slope along the northeastern portion of the site is not within the extent of the map. The Jefferson County Public Land Records online portal does not include any mapped landslide hazards on the project site.

We have reviewed the topographic map, prepared by Van Aller Surveying, dated July 27, 2023. Our review of the topographic map and surficial site reconnaissance indicate that there are east-descending steep slopes in the northeastern portion of the site. The slopes are inclined at about 19 to 33 degrees (35 to 66 percent), and the height ranges from 4 feet to 30 feet. The site slopes meet the City of Port Townsend *critical slopes* criteria, which is defined as any slope of 40 percent or steeper that exceeds a vertical height of 10 feet over a 25-foot horizontal run. As the referenced slope extends horizontally to the south, the slope becomes less than 40 percent or less than 10 feet in vertical height and is no longer considered a critical slope per the City of Port Townsend criteria. Please note that the extent of the critical slope depicted in Figure 2 is approximate. At the time of the site visit, the steep slope was heavily vegetated with brush, brambles, and a few young to middle-aged trees. During our site visit we did not observe signs of recent slide scarps, tension cracks, or slumps within the site that would indicate current deep-seated instability on the steep slopes within the property. Signs of shallow soil movement and soil creep, such as curved tree trunks, were not observed on the slopes of the property. However, it should be noted that soil creep is the gradual, imperceptible downslope movement of surficial soils under the effect of gravity, and is typical on steep slopes.

Our explorations generally exposed/encountered medium dense to very dense native glacial soils, which is interpreted to form the core of the site slopes and are considered to have good shear strength.

The final grading plan was not available at the time this report was prepared. Based on our communication with the design team and review of the preliminary civil plan sheets, prepared by Atwell, dated August 24, 2023, we understand that the grading will be minimal. Based on our explorations and our review of the available data, and provided that the recommendations of this report is followed for design and construction, it is our opinion that the proposed onsite and offsite development will not adversely impact the site slopes and associated buffers. In our opinion, a minimum of a 10-foot buffer from the top of the slope, and a 15-foot building setback will be adequate for this project.

This buffer should not to be disturbed or modified through placement of any fill or removal of the existing vegetation. No material of any kind should be placed permanently on the buffer or slope or be allowed to reach the slope, such as excavation spoils, lawn clippings and other yard waste, trash, and soil stockpiles. Replacement of vegetation in the undisturbed buffer area should be performed in accordance with the City of Port Townsend code. Under no circumstances should water be allowed to concentrate on the steep slopes. Any sloping areas disturbed during construction should be planted with vegetation as soon as practical to reduce the potential for erosion.

Seismic Hazard

The 2018 International Building Code (IBC), Section 1613.2.2, refers to Chapter 20 of ASCE 7-16 for seismic Site Class Definitions. It is our opinion that the overall soil profile corresponds to Site Class C as defined by Table 20.3-1 "Site Class Definitions," according to the ASCE 7-16 Standard. Site Class C applies to a "very dense soil and soft rock" profile. The seismic site class is based on a soil profile extending to a depth of 100 feet. The soil explorations on this site extended to a maximum depth of 31.5 feet and this seismic site class designation is based on the assumption that very dense conditions continue below the depth explored.

We referred to the Applied Technology Council (ATC) website and 2018 IBC to obtain values for S_S , S_{MS} , S_{DS} , S_I , S_{MI} , S_{DI} , F_a , and F_v . The ATC website utilizes the most updated published data on seismic conditions from the United States Geological Survey. The seismic design parameters for this site are presented in the following table:

Seismic Design Parameters
(Reference: 2018 IBC Section 1613.2.2, ASCE 7-16, and ATC)

Seismic Item	Value
Site Coefficient F_a	1.200
S_s	1.350
S_{MS}	1.620
S_{DS}	1.080
Site Coefficient F_v	1.500
S_1	0.493
S_{M1}	0.739
S_{D1}	0.493

Additional seismic considerations include liquefaction potential and amplification of ground motions by soft soil deposits. The liquefaction potential is highest for loose sand with a high groundwater table. The native soils primarily consisting of medium dense to very dense granular soils interpreted to underlie the site are considered to have a low potential for liquefaction and amplification of ground motion.

The Liquefaction Susceptibility Map of Jefferson County, Washington, by Stephen Palmer, et al. (WADNR, September 2004) indicates that the site is mapped in an area of very low liquefaction susceptibility. Based on our explorations and review of the above-mentioned map, it is our opinion that the site has a low liquefaction hazard, and the proposed development should not increase the liquefaction hazard provided that our recommendations are followed for both design and construction.

CONCLUSIONS AND RECOMMENDATIONS

General

It is our opinion from a geotechnical standpoint that the site is compatible with the planned development, provided that the geotechnical engineering recommendations presented in this report are included in the project design and implemented during construction. We recommended that Krazan review the final development design plans.

Soil Conditions: Our explorations were advanced in the proposed development areas. With the exception of B-1, competent native glacial soils were exposed/encountered near surface in our explorations, and extended to the maximum explored depths of 6.0 to 31.5 feet bgs. Competent native glacial soils were encountered at about 11.5 feet bgs in B-1.

Most of the soils exposed/encountered at this site are considered moisture-sensitive and will be easily disturbed and difficult to compact when wet. We recommend that construction take place during extended

periods of dry weather in the summer months, if possible. If construction is to take place during wet weather, additional expenses and delays should be expected due to the wet conditions. Additional expenses could include the need for placing a blanket of rock spalls to protect exposed subgrades and construction traffic areas. The on-site soils may be suitable for use as structural fill material, provided the moisture content is near optimum and the soil could be suitably compacted to specifications. *This will depend on the moisture content of the soils at the time of construction.* Krazan and Associates should be retained to determine if the on-site soils can be used as structural fill material at the time of construction.

Foundations: Based on our explorations, conventional spread footings supported on medium dense or firmer native soil, or on structural fill extending to medium dense or firmer native soil, should provide adequate support for the proposed structures. Detailed geotechnical engineering recommendations for foundation design are presented in this report.

Stormwater Drainage: Proper site grading and drainage should help maintain current stability conditions. A comprehensive drainage plan will be an important part of a successful development project at this site. Surface water runoff should not be allowed to develop concentrated flow over the steep slopes on this property during or after construction. Proper grading and functional drainage systems are important for maintaining the currently stable condition of the site slopes. We understand that a bioswale in the southwest portion of the site is being considered for stormwater management. Further discussion of stormwater management and infiltration rate is provided in the Stormwater Infiltration section of this report.

Site Preparation

In general, site clearing should include removal of any vegetation and associated root systems; wood; abandoned utilities; structures including foundations, rubble; and rubbish. After stripping of organic topsoil is completed, the building pad and pavement areas should be proof-rolled with a loaded tandem-axle dump truck and be visually inspected to identify any loose/soft areas.

Building Foundation Subgrade Preparation: In the building footprint, any loose/soft soils should be excavated to expose the underlying firm native soils. The resulting excavations should be filled to the planned bottom of the structure's subgrade elevations with suitable soils as per the **Structural Fill** section of this report. *Based on our soil explorations, we interpret the medium dense or firmer native load bearing soils at this site to be at about 1.0 to 2.0 feet bgs.*

Exterior Flatworks and Pavement subgrade preparation: Undocumented fill or loose/soft soils in the pavement areas should be removed to *at least 1-foot* below the planned subgrade elevation. We recommend that a high-strength woven geotextile separation fabric then be placed over the entire over excavated grade, such as Miraffi 600X or equivalent. After the fabric is placed, the area should be filled to the planned subgrade elevation with suitable soils as recommended in the **Structural Fill** section of this report. In the exterior flatwork (sidewalk) areas, any loose/soft soil should be removed to *at least 6-inches* below the planned subgrade. The geotextile separation fabric will not be needed for sidewalk areas. *Deeper*

excavation may be required, if yielding soil conditions and trash or debris are exposed during over-excavation.

During wet weather conditions, which typically occur from October through May, subgrade stability problems and grading difficulties may develop due to excess moisture, disturbance of moisture sensitive soils and/or the presence of perched groundwater. Earthwork construction during extended periods of wet weather could create the need to remove wet disturbed soils if they cannot be suitably compacted due to elevated moisture contents. Most of the soils exposed/encountered at this site are considered moisture-sensitive. If over-excavation is necessary, it should be confirmed through continuous monitoring and testing by a qualified geotechnical engineer or geologist. Soils that have become unstable may require drying to near their optimal moisture content before compaction is feasible. Selective drying may be accomplished by scarifying or windrowing surficial material during extended periods of dry, warm weather (typically during the summer months). If the soils cannot be dried back to a workable moisture condition, remedial measures may be required. Preparation of the site for wet weather conditions may consist of the placement of a layer of aggregate base for the protection of exposed soils during construction.

It should be understood that even if Best Management Practices (BMPs) for soil protection are implemented for the wet season, there is a significant chance that additional soil mitigation work will be needed.

Any buried structures encountered during construction should be completely removed and backfilled with structural fill. Excavations, depressions, or soft and pliant areas extending below the planned subgrade elevations should be excavated to expose medium dense or firmer soil, and be backfilled with structural fill. In general, any septic tanks, underground storage tanks, debris pits, cesspools, or similar structures and deleterious materials should be completely removed. Any concrete footings encountered in the planned foundation area should be removed to depth of at least 3 feet below proposed footing elevations or as recommended by the geotechnical engineer. The resulting excavations should be backfilled with structural fill.

All fill on the sloping areas should be placed as structural fill. Where fills greater than 8 feet are to be constructed on original ground that slopes at inclinations steeper than 6:1 (horizontal to vertical), benches should be cut into the existing slope as the filling operations proceed. Each bench should consist of a level terrace, a minimum of 4 to 8 feet wide (based on the width of the equipment utilized), with the rise to the next bench held to 4 feet or less. Where fills of comparable height will be constructed on ground that slopes at an inclination steeper than 4:1 (horizontal to vertical), a keyway should be provided along the toe of the fill slope in addition to the benches. Each keyway should consist of a level trench at least 8 feet wide and at least 2 feet deep, with side slopes not exceeding 1:1 (horizontal to vertical), cut into the existing slope.

Permanent fill slopes should be no steeper than 2 to 1 (horizontal to vertical). Fill materials should not be placed in any section of the slope until the subgrade for that section has been suitably prepared and evaluated by a representative of the geotechnical engineer. Brush, roots, sod or any other organic, perishable or unsuitable material should not be placed in the fill slope.

Site grading near the crowns of the reconstructed slopes should be accomplished, such that, excessive sheet run-off is prevented. The completed slopes should be seeded or otherwise vegetated to protect from future erosion. Well vegetated slopes at the recommended configuration should be reasonably protected from typical erosional effects. However, vegetation on the slopes may not provide protection from unusual flow conditions, such as flood events or concentrations of stormwater runoff occurring on the slopes.

A representative of our firm should be available on request during all grading operations to observe, test and evaluate earthwork construction. These testing and observation processes are an integral part of our service, as acceptance of earthwork construction is dependent upon compaction and stability of the material. The geotechnical engineer may reject any material that does not meet compaction and stability requirements. Further recommendations, contained in this report, are predicated upon the assumption that earthwork construction will conform to the recommendations set forth in this section and in the Structural Fill section of this report.

Structural Fill

Fill placed beneath foundations or other settlement-sensitive structures should be placed as structural fill. Structural fill, by definition, is placed in accordance with prescribed methods and standards, and is monitored by an experienced geotechnical professional. Field monitoring procedures would include the performance of a representative number of in-place density tests to document the attainment of the desired degree of relative compaction. A representative of the geotechnical engineer should evaluate the subgrade prior to structural fill placement.

BMP's should be followed when considering the suitability of the existing materials for use as structural fill. The on-site soils including the undocumented fill may be suitable for reuse as structural fill, provided the soil is free of organic material and debris, and it is within ± 2 percent of the optimum moisture content. Laboratory testing of some of the on-site soils indicated percentage of silt and clay (passing no. 200 sieve) to be greater than 5. It should be noted that the on-site soils with silt and clay content greater than 5 percent will be difficult to compact during the wet weather. Cobbles and boulders were noted at the time of our exploration. *Cobbles and boulders should be removed from the soil prior to use as structural fill.* If the on-site soils are stockpiled for later use as structural fill, the stockpiles should be covered to protect the soil from wet weather conditions. We recommend that a representative of Krazan & Associates be on site during the excavation work to determine which soils are suitable for placement as structural fill.

Imported, all weather granular structural fill material should consist of well-graded gravel or a sand and gravel mixture with a maximum grain size of 3 inches and less than 5 percent fines (material passing the U.S. Standard No. 200 Sieve). Structural fill can also consist crushed rock, rock spalls and controlled density fill (CDF). All structural fill material should be submitted for approval to the geotechnical engineer at least 48 hours prior to delivery to the site.

Structural fill soils should be placed in horizontal lifts not exceeding 8 inches in thickness prior to compaction, moisture-conditioned as necessary, (moisture content of soil shall not vary by more than ± 2 percent of optimum moisture) and the material should be compacted to at least 95 percent of the maximum dry density based on ASTM D1557 Test Method. In-place density tests should be performed on all structural fill to document proper moisture content and adequate compaction. Additional lifts should not be placed if the previous lift did not meet the compaction requirements or if soil conditions are not considered stable.

Temporary Excavations

The on-site soils have variable cohesion strengths, therefore the safe angles to which these materials may be cut for temporary excavations is limited, as the soils may be prone to caving and slope failures in temporary excavations deeper than 4 feet. Temporary excavations in the existing materials should be sloped no steeper than 1H:1V where room permits. Flatter inclinations may be necessary where caving conditions, and groundwater seepage are encountered.

All temporary cuts should be in accordance with Washington Administrative Code (WAC) Part N, Excavation, Trenching, and Shoring. The temporary slope cuts should be visually inspected daily by a qualified person during construction work activities and the results of the inspections should be included in daily reports. The contractor is responsible for maintaining the stability of the temporary cut slopes and minimizing slope erosion during construction. The temporary cut slopes should be covered with plastic sheeting to help minimize erosion during wet weather and the slopes should be closely monitored until the permanent retaining systems are complete. Materials should not be stored and equipment operated within 10 feet of the top of any temporary cut slope. A Krazan & Associates geologist or geotechnical engineer should observe the temporary cut slopes, at least periodically, during the excavation work. The reason for this is that all soil conditions may not be fully delineated by the limited sampling of the site from the geotechnical explorations. In the case of temporary slope cuts, the existing soil conditions may not be fully revealed until the excavation work exposes the soil. Typically, as excavation work progresses the maximum inclination of the temporary slope will need to be evaluated by the geotechnical engineer so that supplemental recommendations can be made. Soil and groundwater conditions can be highly variable. Scheduling for soil work will need to be adjustable, to deal with unanticipated conditions, so that the project can proceed smoothly and required deadlines can be met. If any variations or undesirable conditions are encountered during construction, Krazan & Associates should be notified so that supplemental recommendations can be made.

Shallow Foundations

General: The proposed structures may be supported on a conventional spread foundation system bearing on the medium dense or firmer native soils or on structural fill including granular soils, rock spalls or CDF extending to the medium dense or firmer native soils. Based on our soil explorations, we interpreted the

medium dense or firmer native load bearing soils at this site to be approximately 1.0 to 2.0 feet bgs in the proposed building area.

Soil Bearing: Footings supported as mentioned-above, may be designed using an allowable soil bearing pressure of **3,000 pounds per square foot (psf)** for dead plus live loads. This value may be increased by 1/3 for short duration loads such as wind or seismic loading. A representative of Krazan and Associates should evaluate the foundation bearing soil and observe structural fill placement, where utilized.

For frost protection and bearing capacity considerations, exterior footings should have a minimum embedment depth of 18 inches below pad subgrade (soil grade) or adjacent exterior grade, whichever is lower. Footing widths should be based on the anticipated loads and allowable soil bearing pressure. Footings should have a minimum width of at least 12 inches regardless of load. Water should not be allowed to accumulate in footing trenches. All loose or disturbed soils should be removed from the foundation excavations prior to placing concrete.

Structural Fill in Footing Areas: Structural fill placed for foundation support should follow these recommendations. If structural fill consisting of granular soils or rock spalls are used, then the foundation excavations would need to be widened on both sides of the footing a distance equal to one-half of the depth of the over-excavation below the bottom of the footing. Structural fill consisting of granular soils should be compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557. To reduce the volume of extra excavation needed for the footing trenches and to simplify structural fill placement, it may be practical to place CDF to fill the deeper footing trenches to the planned footing subgrade elevations. If CDF is used, the trench may be excavated only slightly wider (6 inches wider on each side) than the footing.

Potential Foundation Settlement: For foundations constructed as recommended, the total settlement is not expected to exceed 1-inch. Differential settlement should be less than 1/2-inch. Most settlement is expected to occur during construction, as the loads are applied. However, additional post-construction settlement may occur if the foundation soils are flooded or saturated. It should be noted that the risk of liquefaction is considered low, given the composition and density of the native glacial soils.

Design Parameters – Lateral Resistance: Resistance to lateral displacement can be computed using an allowable friction factor of 0.40 acting between the bases of foundations and the supporting subgrade soil. Lateral resistance for footings can alternatively be developed using an allowable equivalent fluid passive pressure of 300 pounds per cubic foot (pcf) acting against the appropriate vertical footing faces (neglecting the upper 12 inches). The allowable friction factor and allowable equivalent fluid passive pressure values include a factor of safety of 1.5. The frictional and passive resistance of the soil may be combined without reduction in determining the total lateral resistance.

Foundation Drainage: Seasonal rainfall, water run-off, and the normal practice of watering trees and landscaping areas around the proposed structures, should not be permitted to flood and/or saturate

foundation subgrade soils. To reduce the buildup of water within the footing areas, continuous footing drains (with cleanouts) should be provided at the bases of the footings. The footing drains should consist of a minimum 4-inch diameter rigid perforated PVC pipe, sloped to drain, with perforations placed near the bottom and enveloped in all directions by washed rock and wrapped with filter fabric to limit the migration of silt and clay into the drain.

Floor Slabs and Exterior Flatwork

The floor slab and exterior flatwork subgrade should be prepared in accordance with the recommendations presented in the **Site Preparation** section of this report, and may be designed using a modulus of subgrade reaction value of $k = 200$ pounds per cubic inch (pci).

In areas where it is desired to reduce floor dampness, such as areas covered with moisture sensitive floor coverings, we recommend that concrete slab-on-grade floors be underlain by a water vapor retardant system. The system should consist of a vapor retardant sheeting underlain by a capillary break consisting of a minimum of 4-inches of compacted clean (less than 5 percent passing the U.S. Standard No. 200 Sieve), open-graded coarse rock of $\frac{3}{4}$ -inch maximum size. The vapor retardant sheeting should be protected from puncture damage. In addition, ventilation of the structure may be prudent to reduce the accumulation of interior moisture.

The exterior flatwork should be placed separately in order to act independently of the walls and foundation system.

Lateral Earth Pressures and Retaining Walls

We have developed criteria for the design of retaining or below grade walls. Our design parameters are based on retention of the native soils or structural fill. The parameters are also based on level, well-drained wall backfill conditions. Walls may be designed as “restrained” retaining walls based on “at-rest” earth pressures, plus any surcharge on top of the walls as described below, if the walls are braced to restrain movement and/or movement is not acceptable. Unrestrained walls may be designed based on “active” earth pressure, if the walls are not part of the buildings and some movement of the retaining walls is acceptable. Acceptable lateral movement equal to at least 0.2 percent of the wall height would warrant the use of “active” earth pressure values for design. The following table, titled **Wall Design Criteria**, presents the recommended soil related design parameters for retaining walls with well-drained level backfill.

Wall Design Criteria	
“At-rest” Conditions (Lateral Earth Pressure)	55 pcf (Equivalent Fluid Density) (Triangular Distribution)
“Active” Conditions (Lateral Earth Pressure)	35 pcf (Equivalent Fluid Density) (Triangular Distribution)
Seismic Increase for “Active” Conditions (Lateral Earth Pressure)	11 psf x H (Uniform Distribution) Where H is the height of the wall in feet
Passive Earth Pressure on Low Side of Wall (includes factor of safety of 1.5)	Neglect upper 1-foot, then 300 pcf (Equivalent Fluid Density)
Soil-Footing Coefficient of Sliding Friction (includes factor of safety of 1.5)	0.40

If vehicular loads are expected to act behind the wall within a horizontal distance of less than or equal to one-half of the wall height, then a live load surcharge should be applied for the design. In this case, we recommend the addition of vehicle surcharges of 70 psf and 100 psf to the active and at-rest earth pressures, respectively.

The stated lateral earth pressures **do not** include the effects of hydrostatic pressure generated by water accumulation behind the retaining walls or loads imposed by construction equipment, foundations or roadways adjacent to the wall (surcharge loads). To minimize the lateral earth pressure and reduce the buildup of water pressure against the walls, continuous footing drains (with cleanouts) should be provided at the bases of the walls. The footing drains should consist of a minimum 4-inch diameter rigid PVC perforated pipe, sloped to drain, with perforations placed near the bottom. The drainpipe should be enveloped by 6 inches of washed gravel in all directions wrapped in filter fabric to prevent the migration of silt and clay into the drain.

The wall fills adjacent to and extending a lateral distance of at least 2 feet behind the walls should consist of free-draining granular material. All free-draining backfill should contain less than 3 percent fines (passing the U.S. Standard No. 200 Sieve) based upon the fraction passing the U.S. Standard No. 4 Sieve with at least 30 percent of the material being retained on the U.S. Standard No. 4 Sieve. **Alternatively**, a drainage composite may be used. It should be realized that the primary purpose of the free-draining material is the reduction of hydrostatic pressure. Some potential for the moisture to contact the back face of the wall may exist, even with treatment, which may require that more extensive waterproofing be specified for walls, which require interior moisture sensitive finishes.

We recommend that the wall fill be compacted to at least 95 percent of the maximum dry density based on ASTM D1557 Test Method. In-place density tests should be performed to verify adequate compaction. Soil compactors place transient surcharges on the backfill. Consequently, only light hand operated equipment is recommended for fill compaction within 3 feet of walls so that excessive stress is not imposed on the walls.

Erosion and Sediment Control

Erosion and sediment control (ESC) is used to minimize the transportation of sediment to wetlands, streams, lakes, drainage systems, and adjacent properties. Erosion and sediment control measures should be taken and these measures should be in general accordance with local regulations. At a minimum, the following basic recommendations should be incorporated into the design of the erosion and sediment control features of the site:

- 1) Phase the soil, foundation, utility, and other work, requiring excavation or the disturbance of the site soils, to take place during the dry season (generally May through September). However, provided precautions are taken using Best Management Practices (BMPs), grading activities can be undertaken during the wet season (generally October through April). It should be noted that this typically increases the overall project cost.
- 2) All site work should be completed and stabilized as quickly as possible.
- 3) Additional perimeter erosion and sediment control features may be required to reduce the possibility of sediment entering the surface water. This may include additional silt fences, silt fences with a lower Apparent Opening Size (AOS), construction of a berm, or other filtration systems.
- 4) Any runoff generated by dewatering discharge should be treated through construction of a sediment trap if there is sufficient space. If space is limited other filtration methods will need to be incorporated.
- 5) Surface water runoff should not be allowed to develop concentrated flow over the steep slopes on this property during or after construction.

Groundwater Influence on Structures and Earthwork Construction

Groundwater seepage was not encountered in our explorations. It should be recognized that groundwater elevations may fluctuate with time. The groundwater level will be dependent upon seasonal precipitation, irrigation, land use, and climatic conditions, as well as other factors. Therefore, groundwater levels at the time of the field investigation may be different from those encountered during the construction phase of the project. The evaluation of such factors is beyond the scope of this report.

If groundwater seepage is encountered during construction, we should observe the conditions to determine if dewatering will be needed. Design of temporary dewatering systems to remove groundwater should be the responsibility of the contractor. If earthwork is performed during or soon after periods of precipitation, the subgrade soils may become saturated. These soils may “pump,” and the materials may not respond to densification techniques. Typical remedial measures include: disking and aerating the soil during dry weather; mixing the soil with drier materials; removing and replacing the soil with an approved fill material. A qualified geotechnical engineering firm should be consulted prior to implementing remedial measures to observe the unstable subgrade conditions and provide appropriate recommendations.

Drainage and Landscape

Special attention to the drainage and irrigation adjacent to the buildings is recommended. Grading should establish drainage away from the structures and this drainage pattern should be maintained. Water should not be allowed to collect adjacent to the structures. Excessive irrigation within landscaped areas adjacent to the structure should not be allowed to occur.

The ground surface should slope away from building pads and pavement areas, toward appropriate drop inlets or other surface drainage devices. It is recommended that adjacent exterior grades be sloped a minimum of 2 percent for a minimum distance of 5 feet away from structures. Roof drains should be tightlined away from foundations. Roof drains should not be connected to the footing drains.

Pavement areas should be inclined at a minimum of 1 percent and drainage gradients should be maintained to carry all surface water to collection facilities, and suitable outlets. These grades should be maintained for the life of the project.

Utility Trench Backfill

We recommend that utility trench backfill be placed in general accordance with typical recommendations for structural fill placement. A firm and unyielding subgrade should allow for the proper placement of subsurface utilities. This could include the placement of geotextile and quarry rock in the bottom of utility trenches prior to placement of pipe bedding, utilities and trench backfill.

Utility trenches should be excavated according to accepted engineering practices following OSHA (Occupational Safety and Health Administration) standards, by a contractor experienced in such work. The responsibility for the safety of open trenches should be borne by the contractor. Traffic and vibration adjacent to trench walls should be minimized; cyclic wetting and drying of excavation side slopes should be avoided. Depending upon the location and depth of some utility trenches, groundwater flow into open excavations could be experienced, especially during or shortly following periods of precipitation.

All utility trench backfill for this project should follow the recommendation as per the Structural Fill section of this report. Utility trench backfill placed in or adjacent to buildings and exterior slabs should be compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557. The

upper 5 feet of utility trench backfill placed in pavement areas should be compacted to at least 95 percent of the maximum dry density based on ASTM Test Method D1557. Below 5 feet, utility trench backfill in pavement areas should be compacted to at least 90 percent of the maximum dry density based on ASTM Test Method D1557.

Pipe bedding should be in accordance with the pipe manufacturer's recommendations. The contractor is responsible for removing all water-sensitive soils from the trenches regardless of the backfill location and compaction requirements. The contractor should use appropriate equipment and methods to avoid damage to the utilities and/or structures during fill placement and compaction.

Stormwater Infiltration

A Large-Scale PIT was performed in accordance with the DOE 2019 SWMMWW, Volume V, Chapter 5. The PIT was performed in TP-1 at a depth of about 2 feet bgs. The exposed soils at the test depth consisted of moist, gray silty sand with gravel and extended to the maximum explored depth of about 7.5 feet bgs, where refusal was encountered. The entire stratum was interpreted as native glacial till soils. The measured steady-state infiltration rate was 0.19 inches per hour. A total correction factor of 0.41 should be applied to the measured steady-state infiltration rate when evaluating the size of the stormwater management system.

Based on our explorations, and the Large-Scale PIT result, the on-site native glacial soils are not considered suitable for stormwater infiltration at this site.

Pavement Design

The pavement subgrade should be prepared in accordance with the recommendations presented in the **Site Preparation** section of this report. It should be noted that subgrade soils that have relatively high silt contents may be highly sensitive to moisture conditions. The subgrade strength and performance characteristics of a silty subgrade material may be dramatically reduced if it becomes wet. Therefore, we recommend that the pavement subgrade not be exposed for long periods, especially during wet weather.

Traffic loads were not provided, however, based on our knowledge of the proposed project, we expect the traffic to range from light duty (passenger automobiles) to heavy duty (firetrucks). The following tables show the minimum recommended pavement sections for both light duty and heavy-duty traffic loads.

**ASPHALTIC CONCRETE (FLEXIBLE) PAVEMENT
LIGHT DUTY**

Asphaltic Concrete	Aggregate Base*
3.0 in.	6.0 in.

HEAVY DUTY

Asphaltic Concrete	Aggregate Base*
4.0 in.	6.0 in.

**PORTLAND CEMENT CONCRETE (RIGID) PAVEMENT
LIGHT DUTY**

Min. PCC Depth	Aggregate Base*
6.0 in.	6.0 in.

HEAVY DUTY

Min. PCC Depth	Aggregate Base*
8.0 in.	6.0 in.

* 95% compaction based on ASTM Test Method D1557

The pavement specification in Appendix C provides additional recommendations. The asphaltic concrete depth in the flexible pavement tables should be a surface course type asphalt, such as Washington Department of Transportation (WSDOT) ½ inch HMA. The rigid pavement design is based on a Portland Cement Concrete (PCC) mix that has a 28-day compressive strength of 4,000 pounds per square inch (psi) with a fiber mesh. The design is also based on a concrete flexural strength or modulus of rupture of 575 psi.

Testing and Inspection

A representative of Krazan & Associates, Inc. should be present at the site during the earthwork activities to confirm that actual subsurface conditions, including foundation bearing soils, are consistent with those exposed during our exploratory field work. This activity is an integral part of our services as acceptance of earthwork construction is dependent upon compaction testing and stability of the material. This representative can also verify that the intent of our recommendations has been incorporated into the project design and construction. Krazan & Associates, Inc. will not be responsible for grades or staking, since this is the responsibility of the Prime Contractor. Furthermore, Krazan & Associates is not responsible for the contractor’s procedures, methods, scheduling, or management of the work site.

LIMITATIONS

This report has been prepared for the exclusive use of the Olympic Peninsula YMCA and their assigns, for the specific application to the subject site. Geotechnical engineering is one of the newest divisions of Civil Engineering. This branch of Civil Engineering is constantly improving as new technologies and understanding of earth sciences improves. Although your site was analyzed using the most appropriate current techniques and methods, undoubtedly there will be substantial future improvements in this branch of engineering. In addition to improvements in the field of geotechnical engineering, physical changes in the site either due to excavation or fill placement, new agency regulations, or possible changes in the proposed structure after the time of completion of the soils report may require the soils report to be professionally reviewed. In light of this, the owner should be aware that there is a practical limit to the usefulness of this report without critical review. Although the time limit for this review is strictly arbitrary, it is suggested that three years be considered a reasonable time for the usefulness of this report.

Foundation and earthwork construction are characterized by the presence of a calculated risk that soil and groundwater conditions have been fully revealed by the original geotechnical investigation. This risk is derived from the practical necessity of basing interpretations and design conclusions on limited sampling of the earth. Our report, design conclusions, and interpretations should not be construed as a warranty of the subsurface conditions. Actual subsurface conditions may differ, sometimes significantly, from those indicated in this report.

The recommendations made in this report are based on the assumption that soil conditions do not vary significantly from those encountered during our field investigation. The findings and conclusions of this report can be affected by the passage of time, seasonal weather conditions, manmade influences such as construction on or adjacent to the site, and natural events such as earthquakes, slope instability, flooding, or groundwater fluctuations. If any variations or undesirable conditions are encountered during construction, the geotechnical engineer should be notified so that supplemental recommendations can be made.

The conclusions of this report are based on the information provided regarding the proposed construction. If the proposed construction is relocated or redesigned, the conclusions in this report may not be valid. The geotechnical engineer should be notified of any changes so that the recommendations can be reviewed and re-evaluated.

Misinterpretations of this report by other design team members can result in project delays and cost overruns. These risks can be reduced by having Krazan & Associates, Inc. involved in the design team's meetings and discussions prior to and following submission of the geotechnical report. Krazan & Associates, Inc. should also be retained to review pertinent elements of the design team's plans and specifications. To reduce the risk of contractors misinterpreting the recommendations of this report, Krazan & Associates should participate in pre-bid and preconstruction meetings, and provide construction observations and testing during the site work.

This report is a geotechnical engineering investigation with the purpose of evaluating the soil conditions in terms of foundation design. The scope of our geotechnical engineering services did not include any environmental site assessment for the presence or absence of hazardous and/or toxic materials in the soil, groundwater or atmosphere, or the presence of wetlands. Any statements, or absence of statements, in this report or on any boring log regarding odors, unusual or suspicious items, or conditions observed are strictly for descriptive purposes and are not intended to convey engineering judgment regarding potential hazardous and/or toxic assessments.

The geotechnical information presented herein is based upon professional interpretation utilizing standard engineering practices and a degree of conservatism deemed proper for this project. It is not warranted that such information and interpretation cannot be superseded by future geotechnical developments. We emphasize that this report is valid for this project as outlined above, and should not be used for any other site. Our report is prepared for the exclusive use of our client. No other party may rely on the product of our services unless we agree in advance to such reliance in writing.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (360) 598-2126.

Respectfully submitted,

KRAZAN & ASSOCIATES, INC.

01/31/24

Vijay Chaudhary, P.E
Project Engineer

AG:EA:VC:SEW

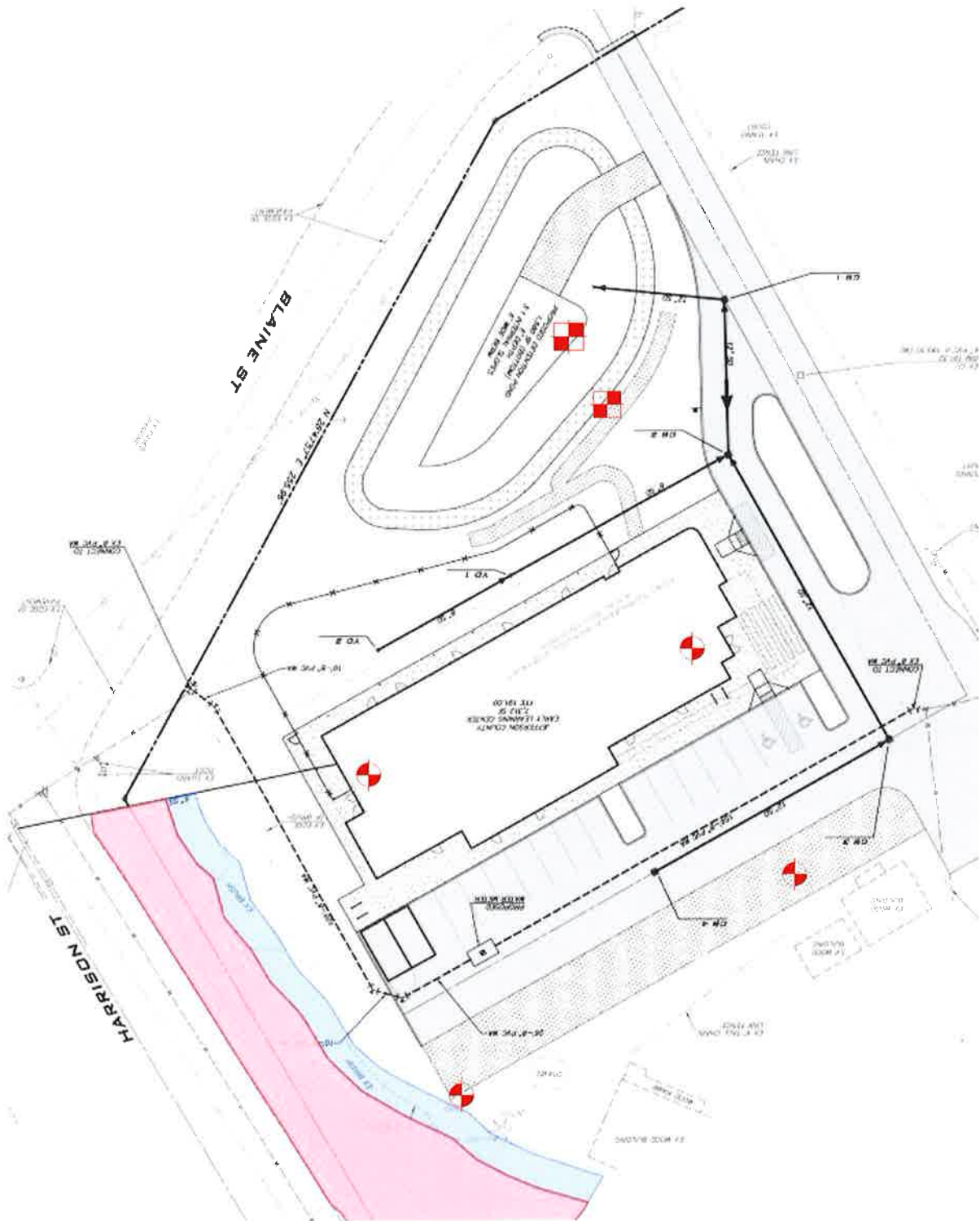
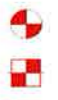


01/31/24

Shawn Williams, L.E.G.
Engineering Geologist



 **Krazan**



APPENDIX A

FIELD INVESTIGATION AND LABORATORY TESTING

Field Investigation

The field investigation consisted of a surface reconnaissance and a subsurface exploration program. Four (4) soil borings and two (2) test pits were conducted and sampled to evaluate the subsurface soil and groundwater conditions at the project site. The soil borings, designated B-1, B-2, B-3, and B-4 were drilled on August 28, 2023 using a subcontracted drill rig. The soil borings were advanced to depths between 9.0 feet and 31.5 feet bgs. The test pits, designated TP-1 and TP-2 were excavated on August 28, 2023 using an excavator subcontractor. The test pits were excavated to depths of about 6.0 and 7.5 feet bgs. The approximate boring and test pit locations are shown on the Site Plan (Figure 2). The depths shown on the attached boring and test pit logs are from the existing ground surface at the time of our exploration.

Soil boring samples were obtained by using the Standard Penetration Test (SPT) as described in ASTM Test Method D1586. The Standard Penetration Test and sampling method consists of driving a standard 2-inch outside-diameter, split barrel sampler into the subsoil with a 140-pound hammer free falling a vertical distance of 30 inches. The summation of hammer-blows required to drive the sampler the final 12-inches of an 18-inch sample interval is defined as the Standard Penetration Resistance, or N-value. The blow count is presented graphically on the boring log in this appendix. The resistance, or “N” value, provides a measure of the relative density of granular soils or of the relative consistency of cohesive soils.

Additionally, we performed one (1) Large-Scale PIT in accordance with the DOE 2019 SWMMWW, Volume V, Chapter 5. The PIT was performed at roughly 2 feet bgs in the TP-1. The area exposed for the PIT was at least 100 square feet. The testing included a pre-soak period, followed by determination of a steady-state infiltration rate and then a falling head infiltration rate testing. After the PIT was completed, the test pit was over-excavated to approximately 5.5 feet below the test elevation to document whether any restrictive layers or groundwater seepage were present.

A field geologist from Krazan and Associates was present during the explorations, continuously examined and visually classified the soils in general accordance with the Unified Soil Classification System (USCS), and maintained logs of the explorations, which are presented in this appendix. Representative samples of the soils encountered in the geotechnical explorations were collected and transported to our laboratory for further examination and testing.

Laboratory Testing

The laboratory testing program was developed primarily to determine the index properties of the soils. Test results were used for soil classification and as criteria for determining the engineering suitability of the surface and subsurface materials encountered. Sieve analysis and natural moisture content tests were performed on selected samples. The laboratory test results are included in this appendix.

Soil Classification

USCS Soil Classification				
Major Division			Group Description	
Coarse-Grained Soils < 50% passes #200 sieve	Gravel and Gravelly Soils < 50% coarse fraction passes #4 sieve	Gravel (with little or no fines)	GW	Well-Graded Gravel
			GP	Poorly Graded Gravel
		Gravel (with > 12% fines)	GM	Silty Gravel
			GC	Clayey Gravel
	Sand and Sandy Soils > 50% coarse fraction passes #4 sieve	Sand (with little or no fines)	SW	Well-Graded Sand
			SP	Poorly Graded Sand
		Sand (with > 12% fines)	SM	Silty Sand
			SC	Clayey Sand
Fine-Grained Soils > 50% passes #200 sieve	Silt and Clay Liquid Limit < 50		ML	Silt
			CL	Lean Clay
			OL	Organic Silt and Clay (Low Plasticity)
	Silt and Clay Liquid Limit > 50		MH	Inorganic Silt
			CH	Inorganic Clay
			OH	Organic Clay and Silt (Med. to High Plasticity)
			Highly Organic Soils	

Relative Density with Respect to SPT N-Value			
Coarse-Grained Soils		Fine-Grained Soils	
Density	N-Value (Blows/Ft)	Density	N-Value (Blows/Ft)
Very Loose	0 - 4	Very Soft	0 - 1
Loose	5 - 10	Soft	2 - 4
Medium Dense	11 - 30	Medium Stiff	5 - 8
Dense	31 - 50	Stiff	9 - 15
Very Dense	> 50	Very Stiff	16 - 30
		Hard	> 30



Proposed Jefferson County Early Learning Center

Date: Sep 2023

References: USCS

Drawn By: AG

Project Number: 102-23021

Krazan & Associates, Inc.

LOG OF BORING No. B-1

Date Drilled: 8/28/23

Project: Jefferson County Early Learning Center

Notes:

Location: Port Townsend, WA

Ground Elevation: ~190 ft.

Logged By: AG

Hammer Type: Manual Automatic Other

Water Level: Not encountered.

Drilling Method: HSA

Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample No. /Type	1st 6"	2nd 6"	3rd 6"	N Value	N VALUE GRAPH (Last 12")	
								10	50
0	Ground Surface								
0-1	Brown to grayish brown, silty sand with gravel (undocumented fill) (moist, loose to medium dense)	[Hatched Pattern]	S1/GB	-	-	-	-		
1-2	-Becomes grayish brown and medium dense.		S2/SS	19	15	12	27		
2-3			S3/SS	7	9	13	22		
3-4									
4-5									
5-6									
6-7									
7-8									
8-9									
9-10									
10-11			S4/SS	7	7	7	14		
11-12	Light brown, sand with silt and gravel (SP-SM) (moist, medium dense to dense)	[Dotted Pattern]							
12-13									
13-14									
14-15									
15-16	-Gravel no longer observed.		S5/SS	22	11	19	30		
16-17									
17-18									
18-19									
19-20									
20-21	-Becomes dense.	S6/SS	17	20	26	46			
21-22									
22-23									
23-24									
24-25									
25-26	Gray, sand (SP) (moist, very dense)		S7/SS	23	50/6"		50		
26-27									
27-28									
28-29									
29-30									
30-31			S8/SS	50/6"			50		
31-32	End of Exploratory Boring								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
ST - Shelby Tube	CU - Cuttings-	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	D C - Driving Casing	

Krazan & Associates, Inc.

LOG OF BORING No. B-2

Date Drilled: 8/28/23

Project: Jefferson County Early Learning Center

Notes:

Location: Port Townsend, WA

Ground Elevation: ~190 ft.

Logged By: AG

Hammer Type: Manual Automatic Other

Water Level: Not encountered.

Drilling Method: HSA

Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample No. /Type	1st 6"	2nd 6"	3rd 6"	N Value	N VALUE GRAPH (Last 12")						
								10	20	30	40	50		
0	Ground Surface													
0-1	Grayish brown to gray, silty sand with gravel and cobbles (SM) (moist, very dense)													
1-2			S1/GB											
2-3	-Becomes gray.		S2/SS	50/6"			50							
3-4														
4-5			S3/SS	50/6"			50							
5-6														
6-7														
7-8														
8-9														
9-10														
10-11	Gray, sand (SP) (moist, very dense) -0.3' silty sand lens was encountered.		S4/SS	23	25	50/5"	50							
11-12														
12-13														
13-14														
14-15														
15-16			S5/SS	50/6"			50							
16-17														
17-18														
18-19														
19-20														
20-21			S6/SS	28	50/6"		50							
21-22	End of Exploratory Boring													
22-23														
23-24														
24-25														
25-26														
26-27														
27-28														
28-29														
29-30														
30-31														
31-32														

LEGEND

SAMPLER TYPE

SS - Split Spoon
ST - Shelby Tube
AWG - Rock Core, 1-1/8"

NQ - Rock Core, 1-7/8"
CU - Cuttings-
CT - Continuous Tube

DRILLING METHOD

HSA - Hollow Stem Auger
CFA - Continuous Flight Augers
D C - Driving Casing

RW - Rotary Wash
RC - Rock Core

Krazan & Associates, Inc.	LOG OF BORING No. B-3
--------------------------------------	------------------------------

Date Drilled: 8/28/23	Project: Jefferson County Early Learning Center	Notes:	
Location: Port Townsend, WA	Ground Elevation: ~190 ft.		Logged By: AG
Hammer Type: Manual <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> Other <input type="checkbox"/>			
Water Level: Not encountered.			Drilling Method: HSA

Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample No. /Type	1st 6"	2nd 6"	3rd 6"	N Value	N VALUE GRAPH (Last 12")
0	Ground Surface							
1	Gray, silty sand with gravel (SM) (moist, very dense)							
2								
3			S1/SS	50/6"			50	
4								
5								
6			S2/SS	50/6"			50	
7								
8								
9			S3/SS	50/6"			50	
10	End of Exploratory Boring							
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
ST - Shelby Tube	CU - Cuttings-	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	D C - Driving Casing	

Krazan & Associates, Inc.

LOG OF BORING No. B-4

Date Drilled: 8/28/23

Project: Jefferson County Early Learning Center

Notes:

Location: Port Townsend, WA

Ground Elevation: ~190 ft.

Logged By: AG

Hammer Type: Manual Automatic Other

Water Level: Not encountered.

Drilling Method: HSA

Depth (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample No. /Type	1st 6"	2nd 6"	3rd 6"	N Value	N VALUE GRAPH (Last 12")												
								10	20	30	40	50								
0	Ground Surface																			
0-1	Gray, silty sand with gravel (SM) (moist, very dense)		S1/GB	-	-	-	-													
2-3			S2/SS	19	50/6"	-	50													
4-5			S3/SS	18	50/6"	-	50													
6-8			S4/SS	50/3"	-	-	50													
9	End of Exploratory Boring																			
10-32																				

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	NQ - Rock Core, 1-7/8"	HSA - Hollow Stem Auger	RW - Rotary Wash
ST - Shelby Tube	CU - Cuttings-	CFA - Continuous Flight Augers	RC - Rock Core
AWG - Rock Core, 1-1/8"	CT - Continuous Tube	D C - Driving Casing	

KRAZAN AND ASSOCIATES, INC.

LOG OF EXPLORATORY TEST PIT TP-1

PROJECT: JCELC DATE: 8/28/23
 PROJECT NO.: 102-23021 PAGE: 1 of 1
 CONTRACTOR: Bull's Eye Excavation SURFACE ELEV.: ~191 ft.
 SAMPLE METHOD: Grab LOCATION: Port Townsend, WA

DEPTH (ft)	USC SYMBOL	WATER LEVEL	MATERIAL DESCRIPTION	SAMPLE No.	SAMPLE TYPE	Moisture Content and Atterberg Limits
1			Brown to gray, silty sand with gravel and cobbles (SM) (moist, very dense)	S1		■ Moisture Content and Atterberg Limits ■ 10 20 30 40 50 60 70 80
2		-Becomes gray at 1.5 ft. -15" boulder noted at 2.0 ft.		S2		
3						
4						
5				S3		
6						
7			-Refusal at 7.5 ft.	S4		
8			End of Exploratory Test Pit			

Water Level Initial: ▾ Final: ▾

Water Observations: Groundwater seepage was not encountered.

Notes: Caving was not encountered. Pilot Infiltration Test performed at 2.0 ft.

Logged By: EA

KRAZAN AND ASSOCIATES, INC.

LOG OF EXPLORATORY TEST PIT TP-2

PROJECT: JCELC

DATE: 8/28/23

PROJECT NO.: 102-23021

PAGE: 1 of 1

CONTRACTOR: Bull's Eye Excavation

SURFACE ELEV.: ~191 ft.

SAMPLE METHOD: Grab

LOCATION: Port Townsend, WA

DEPTH (ft)	USC SYMBOL	WATER LEVEL	MATERIAL DESCRIPTION	SAMPLE No.	SAMPLE TYPE	Moisture Content and Atterberg Limits	
						10	20 30 40 50 60 70 80
1			Brown to gray, silty sand with gravel and cobbles (SM) (moist, very dense)				
2			-Becomes gray at 1.5 ft.	S1	□ □ □		
3							
4							
5				S2	□ □ □		
6			-Refusal at 6.0 ft.	S3	□ □ □		
7			End of Exploratory Test Pit				
8							

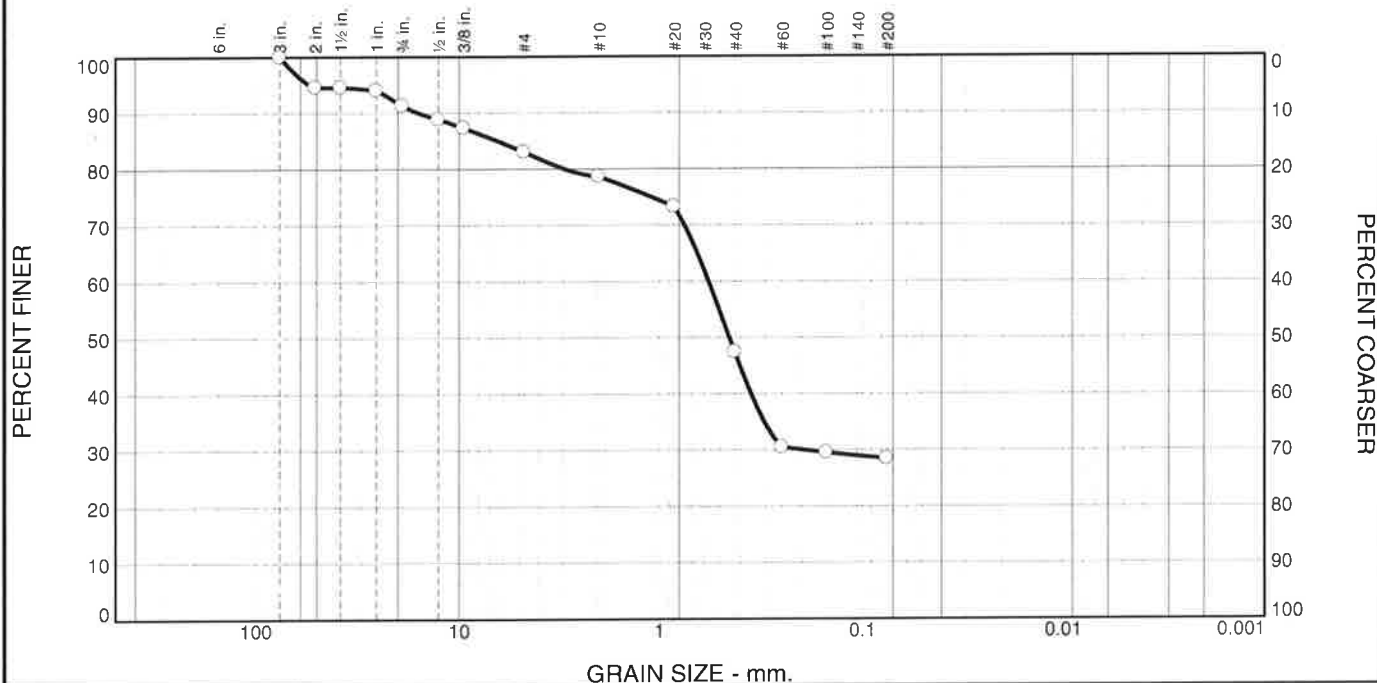
Water Level Initial: ∇ Final: ∇

Water Observations: Groundwater seepage was not encountered.

Notes: Caving was not encountered.

Logged By: EA

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	9	8	4	32	19	28	

Test Results (ASTM D6913 & ASTM D 1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
3	100		
2	95		
1.5	95		
1	94		
.75	91		
.5	89		
.375	87		
#4	83		
#10	79		
#20	73		
#40	47		
#60	31		
#100	30		
#200	28		

(no specification provided)

Material Description

Gray Silty Sand with Gravel

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI=

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-2-4(0)

Coefficients

D₉₀= 15.9353 D₈₅= 6.4387 D₆₀= 0.5721
D₅₀= 0.4514 D₃₀= 0.1930 D₁₅=
D₁₀= C_u= C_c=

Remarks

Sample Location: TP1 - S2
Moisture Content: 3.4%

Date Received: 8/29/23 **Date Tested:** 8/30/23

Tested By: AC

Checked By: Aaron Clyde

Title: Laboratory Manager

Source of Sample: TP-1 **Depth:** 2.0'
Sample Number: 1049

Date Sampled: 8/28/23

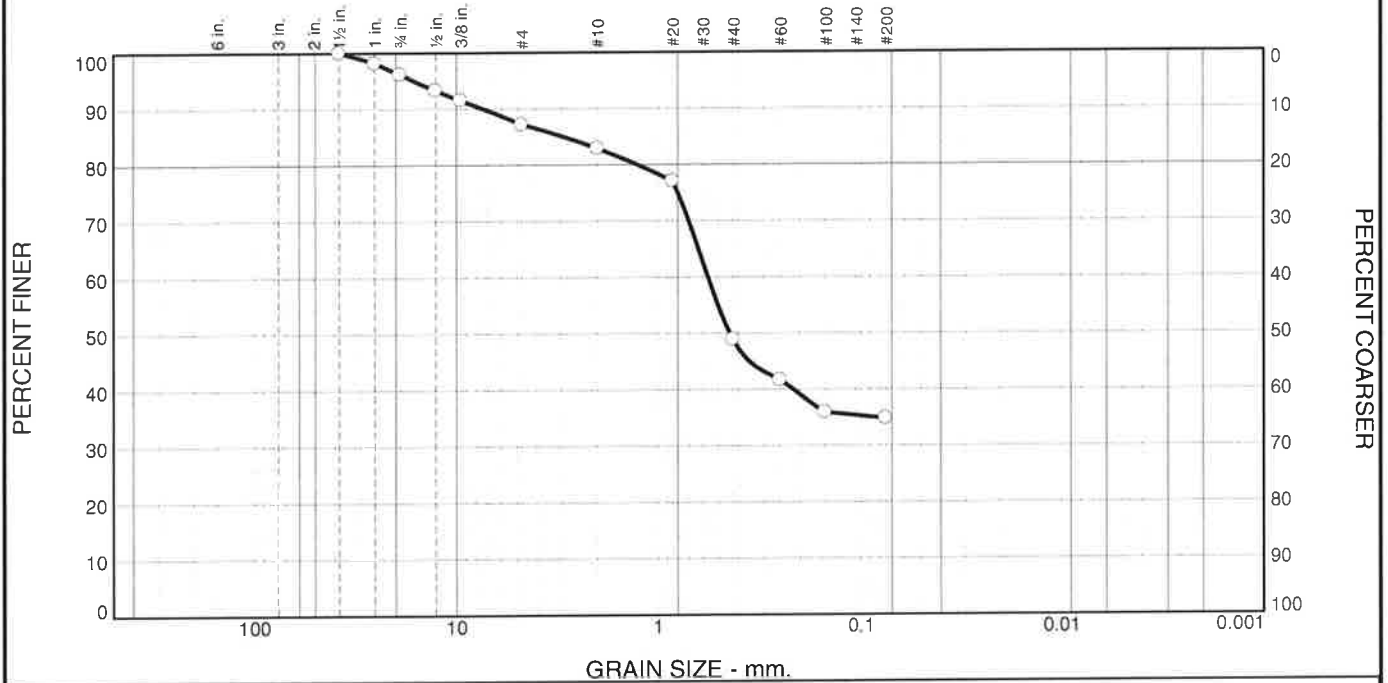


Client: Olympic Peninsula YMCA
Project: Jefferson County Early Learning Center

Project No: 10223021

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines		Clay
	Coarse	Fine	Coarse	Medium	Fine	Silt		
0	4	9	4	34	14	35		

Test Results (ASTM D6913 & ASTM D 1140)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1.5	100		
1	98		
.75	96		
.5	93		
.375	92		
#4	87		
#10	83		
#20	77		
#40	49		
#60	42		
#100	36		
#200	35		

* (no specification provided)

Material Description

Gray Silty Sand

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI= NP

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-2-4(0)

Coefficients

D₉₀= 7.3633 D₈₅= 2.9312 D₆₀= 0.5650
D₅₀= 0.4407 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Remarks

Sample Location: TP1 - S4
Moisture Content: 6.4%

Date Received: 8/29/23 Date Tested: 8/30/23

Tested By: JP

Checked By: Aaron Clyde

Title: Laboratory Manager

Source of Sample: TP-1 Depth: 7.5' Date Sampled: 8/28/23
Sample Number: 1048

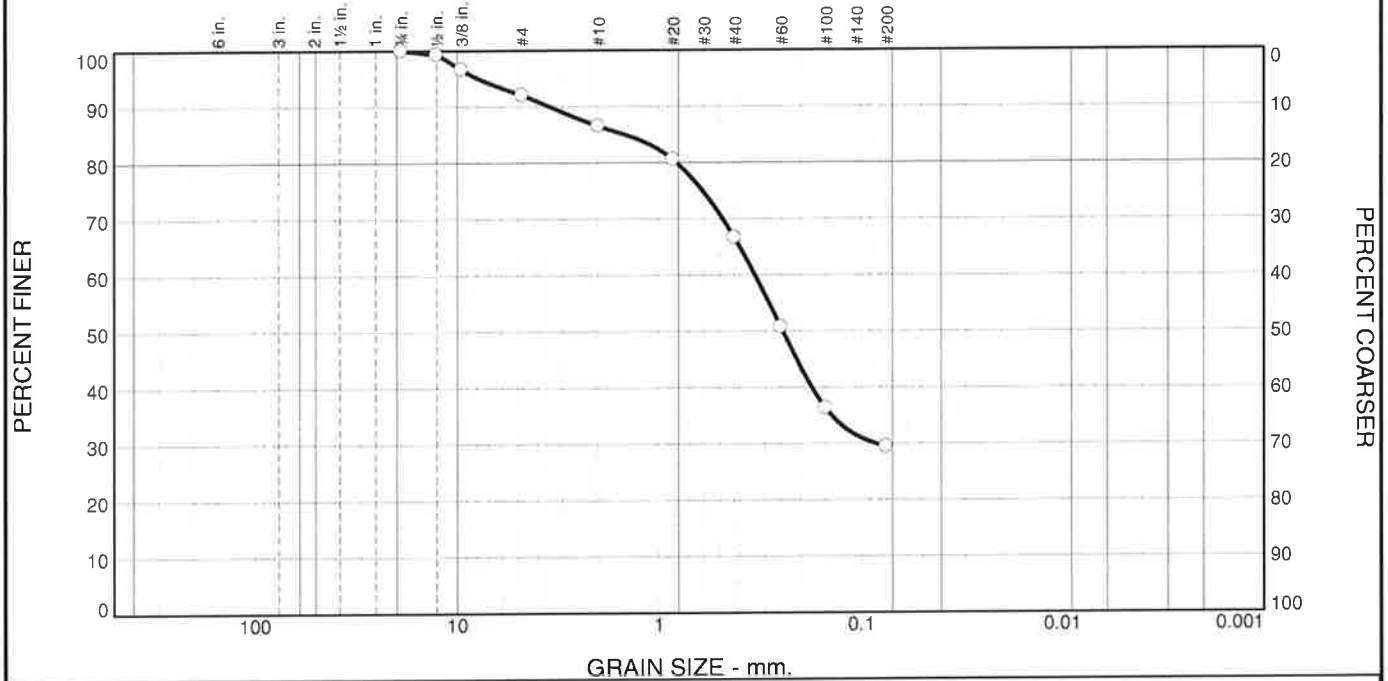


Client: Olympic Peninsula YMCA
Project: Jefferson County Early Learning Center

Project No: 10223021

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines		Clay
	Coarse	Fine	Coarse	Medium	Fine	Silt		
0	0	8	5	20	38	29		

Test Results (ASTM D6913 & ASTM D2216)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100		
.5	99		
.375	97		
#4	92		
#10	87		
#20	81		
#40	67		
#60	51		
#100	36		
#200	29		

* (no specification provided)

Material Description

Grayish Brown Silty Sand

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI=

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-2-4(0)

Coefficients

D₉₀= 3.4682 D₈₅= 1.4782 D₆₀= 0.3368
D₅₀= 0.2446 D₃₀= 0.0847 D₁₅=
D₁₀= C_u= C_c=

Remarks

Sample Location: B1-S3
Moisture Content: 3.5%

Date Received: 8/29/23 Date Tested: 8/30/23

Tested By: AC

Checked By: Aaron Clyde

Title: Laboratory Manager

Source of Sample: B-1 Depth: 5.0' Date Sampled: 8/28/23
Sample Number: 1050

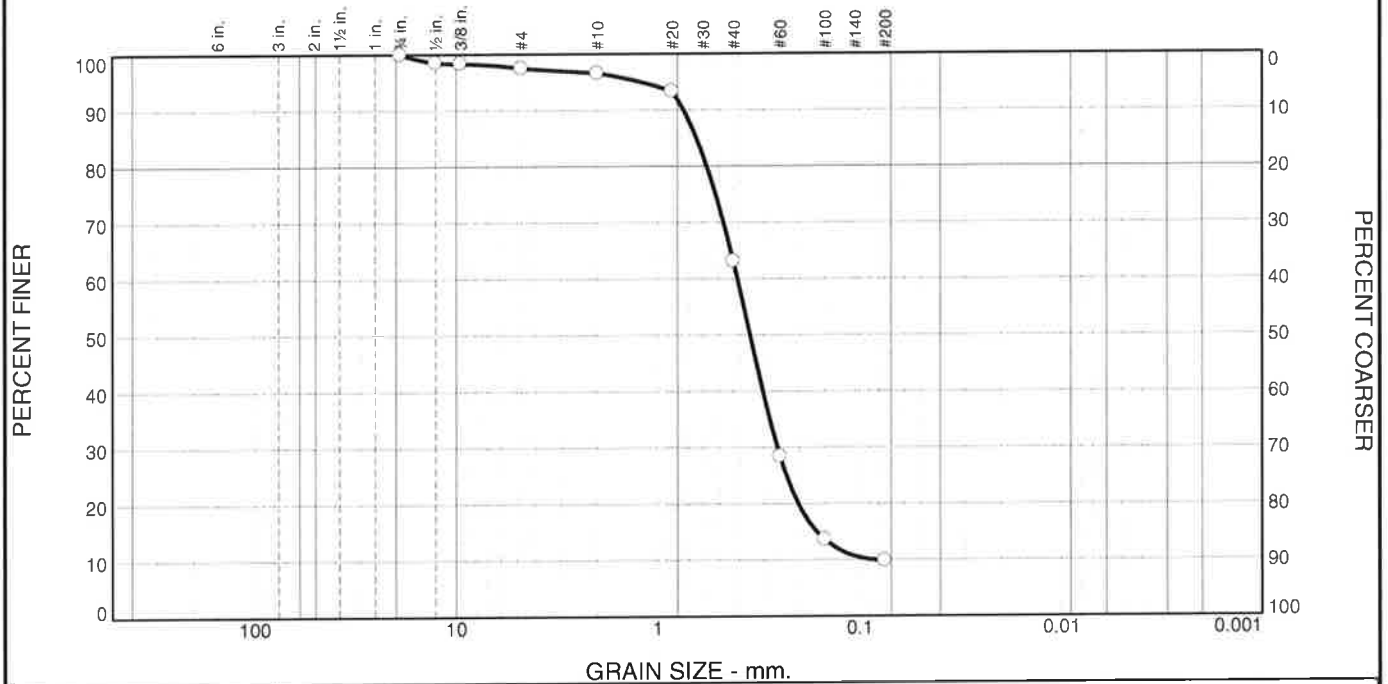


Client: Olympic Peninsula YMCA
Project: Jefferson County Early Learning Center

Project No: 10223021

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	3	0	34	53	10	

Test Results (ASTM D6913 & ASTM D2216)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100		
.5	99		
.375	98		
#4	97		
#10	97		
#20	93		
#40	63		
#60	28		
#100	14		
#200	9.8		

Material Description

Light Brown Poorly Graded Sand w/ Silt

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI=

Classification

USCS (D 2487)= SP-SM AASHTO (M 145)= A-3

Coefficients

D₉₀= 0.7456 D₈₅= 0.6456 D₆₀= 0.4054
D₅₀= 0.3510 D₃₀= 0.2578 D₁₅= 0.1644
D₁₀= 0.0856 C_u= 4.74 C_c= 1.91

Remarks

Sample Location: B1-S5
Moisture Content: 4.7%

Date Received: 8/30/23 Date Tested: 8/30/23

Tested By: AC

Checked By: Aaron Clyde

Title: Laboratory Manager

Source of Sample: B-1 Depth: 15.0' Date Sampled: 8/28/23
Sample Number: 1051

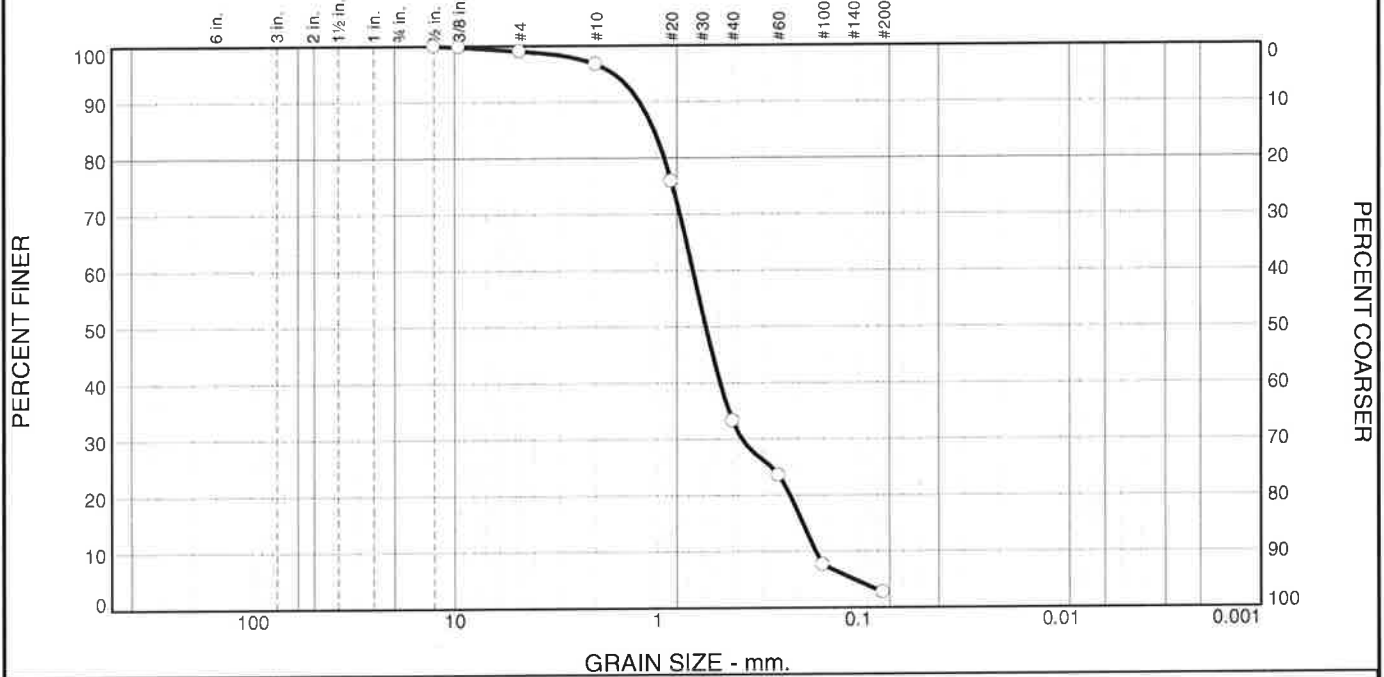


Client: Olympic Peninsula YMCA
Project: Jefferson County Early Learning Center

Project No: 10223021

Figure

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	0	1	2	64	30	3	3

Test Results (ASTM D6913 & ASTM D2216)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.5	100		
.375	100		
#4	99		
#10	97		
#20	76		
#40	33		
#60	24		
#100	8		
#200	2.7		

Material Description

Gray Poorly Graded Sand

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI=

Classification

USCS (D 2487)= SP AASHTO (M 145)= A-1-b

Coefficients

D₉₀= 1.2200 D₈₅= 1.0376 D₆₀= 0.6649
D₅₀= 0.5754 D₃₀= 0.3811 D₁₅= 0.1892
D₁₀= 0.1632 C_u= 4.08 C_c= 1.34

Remarks

Sample location: B2-S6
Moisture Content: 7.5%

Date Received: 8/30/23 Date Tested: 8/30/23

Tested By: AC _____

Checked By: Aaron Clyde _____

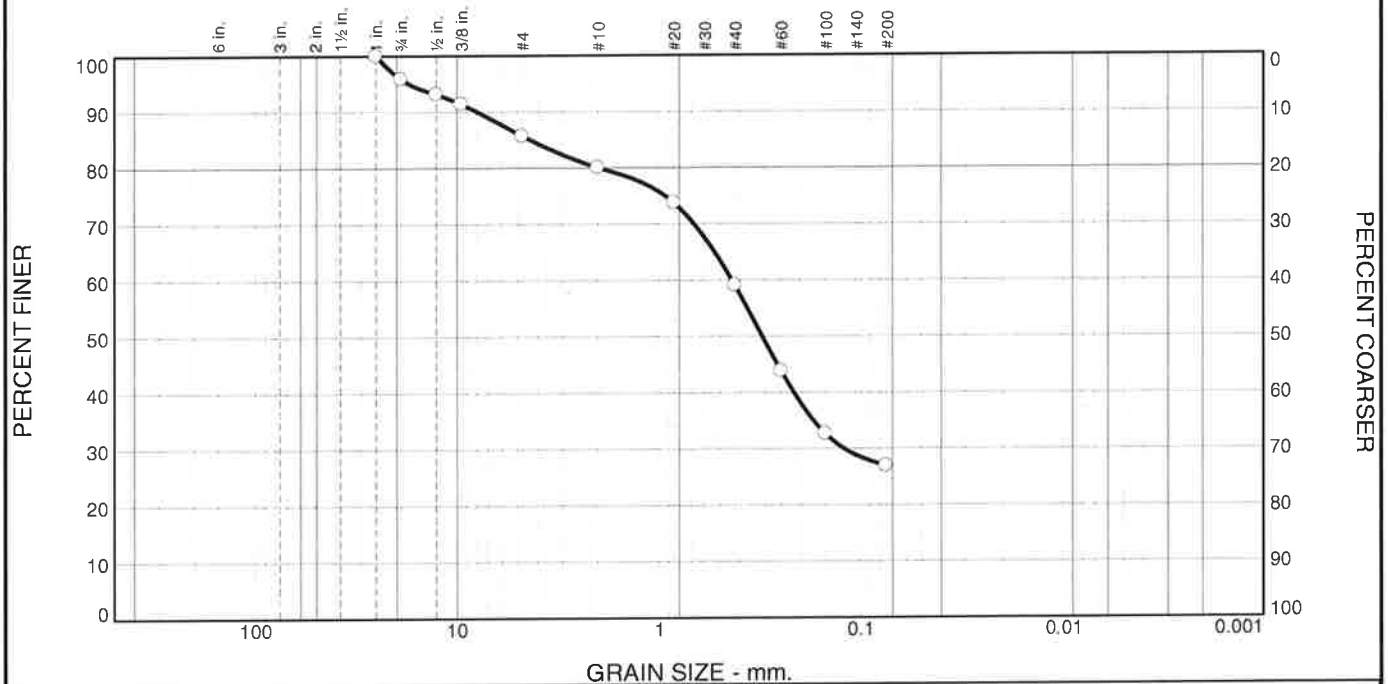
Title: Laboratory Manager _____

(no specification provided)

Source of Sample: B-2 Depth: 20.0' Date Sampled: 8/28/23
Sample Number: 1052

	Client: Olympic Peninsula YMCA Project: Jefferson County Early Learning Center Project No: 10223021
Figure	

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0	4	10	6	21	32	27	

Test Results (ASTM D 6913 & ASTM D 2216)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1	100		
.75	96		
.5	93		
.375	91		
#4	86		
#10	80		
#20	74		
#40	59		
#60	44		
#100	33		
#200	27		

(no specification provided)

Material Description

Gray Silty Sand

Atterberg Limits (ASTM D 4318)

PL= NP LL= NV PI=

Classification

USCS (D 2487)= SM AASHTO (M 145)= A-2-4(0)

Coefficients

D₉₀= 7.9287 D₈₅= 4.3373 D₆₀= 0.4396
D₅₀= 0.3104 D₃₀= 0.1211 D₁₅=
D₁₀= C_u= C_c=

Remarks

Sample Location: B3-S2
Moisture Content: 5.5%

Date Received: 8/30/23 Date Tested: 9/5/23

Tested By: AC

Checked By: Aaron Clyde

Title: Laboratory Manager

Source of Sample: B-3 Depth: 5.0' Date Sampled: 8/28/23
Sample Number: 1053



Client: Olympic Peninsula YMCA
Project: Jefferson County Early Learning Center

Project No: 10223021

Figure

APPENDIX B

EARTHWORK SPECIFICATIONS

GENERAL

When the text of the report conflicts with the general specifications in this appendix, the recommendations in the report have precedence.

SCOPE OF WORK: These specifications and applicable plans pertain to and include all earthwork associated with the site rough grading, including but not limited to the furnishing of all labor, tools, and equipment necessary for site clearing and grubbing, stripping, preparation of foundation materials for receiving fill, excavation, processing, placement and compaction of fill and backfill materials to the lines and grades shown on the project grading plans, and disposal of excess materials.

PERFORMANCE: The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications. This work shall be inspected and tested by a representative of Krazan and Associates, Inc., hereinafter known as the Geotechnical Engineer and/or Testing Agency. Attainment of design grades when achieved shall be certified to by the project Civil Engineer. Both the Geotechnical Engineer and Civil Engineer are the Owner's representatives. If the contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary readjustments until all work is deemed satisfactory as determined by both the Geotechnical Engineer and Civil Engineer. No deviation from these specifications shall be made except upon written approval of the Geotechnical Engineer, Civil Engineer or project Architect.

No earthwork shall be performed without the physical presence or approval of the Geotechnical Engineer. The Contractor shall notify the Geotechnical Engineer at least 2 working days prior to the commencement of any aspect of the site earthwork.

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineers harmless from any and all liability, real or alleged, in connection with the performance of work on this project, except for liability arising from the sole negligence of the Owner of the Engineers.

TECHNICAL REQUIREMENTS: All compacted materials shall be densified to a density not less than 95 percent of maximum dry density as determined by ASTM Test Method D1557 as specified in the technical portion of the Geotechnical Engineering Report. The results of these tests and compliance with these specifications shall be the basis upon which satisfactory completion of work will be judged by the Geotechnical Engineer.

SOIL AND FOUNDATION CONDITIONS: The Contractor is presumed to have visited the site and to have familiarized himself with existing site conditions and the contents of the data presented in the soil report. The Contractor shall make his own interpretation of the data contained in said report, and the Contractor shall not be relieved of liability under the contract for any loss sustained as a result of any variance between conditions indicated by or deduced from said report and the actual conditions encountered during the progress of the work.

DUST CONTROL: The work includes dust control as required for the alleviation or prevention of any dust nuisance on or about the site or the borrow area, or off-site if caused by the Contractor's operation either during the performance of the earthwork or resulting from the conditions in which the Contractor leaves the site. The Contractor shall assume all liability, including Court costs of codefendants, for all claims related to dust or windblown materials attributable to his work.

SITE PREPARATION

Site preparation shall consist of site clearing and grubbing and preparations of foundation materials for receiving fill.

CLEARING AND GRUBBING: The Contractor shall accept the site in this present condition and shall demolish and/or remove from the area of designated project earthwork all structures, both surface and subsurface, trees, brush, roots, debris, organic matter, and all other matter determined by the Geotechnical Engineer to be deleterious. Such materials shall become the property of the Contractor and shall be removed from the site.

Tree root systems in proposed building areas should be removed to a minimum depth of 3 feet and to such an extent which would permit removal of all roots larger than 1 inch. Tree root removed in parking areas may be limited to the upper 1½ feet of the ground surface. Backfill or tree root excavation should not be permitted until all exposed surfaces have been inspected and the Geotechnical Engineer is present for the proper control of backfill placement and compaction. Burning in areas which are to receive fill materials shall not be permitted.

SUBGRADE PREPARATION: Subgrade should be prepared as described in our site preparation section of this report.

EXCAVATION: All excavation shall be accomplished to the tolerance normally defined by the Civil Engineer as shown on the project grading plans. All over excavation below the grades specified shall be backfilled at the Contractor's expense and shall be compacted in accordance with the applicable technical requirements.

FILL AND BACKFILL MATERIAL: No material shall be moved or compacted without the presence of the Geotechnical Engineer. Material from the required site excavation may be utilized for construction site fills provided prior approval is given by the Geotechnical Engineer. All materials utilized for constructing site fills shall be free from vegetable or other deleterious matter as determined by the Geotechnical Engineer.

PLACEMENT, SPREADING AND COMPACTION: The placement and spreading of approved fill materials and the processing and compaction of approved fill and native materials shall be the responsibility of the Contractor. However, compaction of fill materials by flooding, ponding, or jetting shall not be permitted unless specifically approved by local code, as well as the Geotechnical Engineer.

Both cut and fill shall be surface compacted to the satisfaction of the Geotechnical Engineer prior to final acceptance.

SEASONAL LIMITS: No fill material shall be placed, spread, or rolled while it is frozen or thawing or during unfavorable wet weather conditions. When the work is interrupted by heavy rains, fill operations shall not be resumed until the Geotechnical Engineer indicates that the moisture content and density of previously placed fill are as specified.

APPENDIX C

PAVEMENT SPECIFICATIONS

1. DEFINITIONS – The term “pavement” shall include asphalt concrete surfacing, untreated aggregate base, and aggregate subbase. The term “subgrade” is that portion of the area on which surfacing, base, or subbase is to be placed.

2. SCOPE OF WORK – This portion of the work shall include all labor, materials, tools and equipment necessary for and reasonable incidental to the completion of the pavement shown on the plans and as herein specified, except work specifically noted as “Work Not Included.”

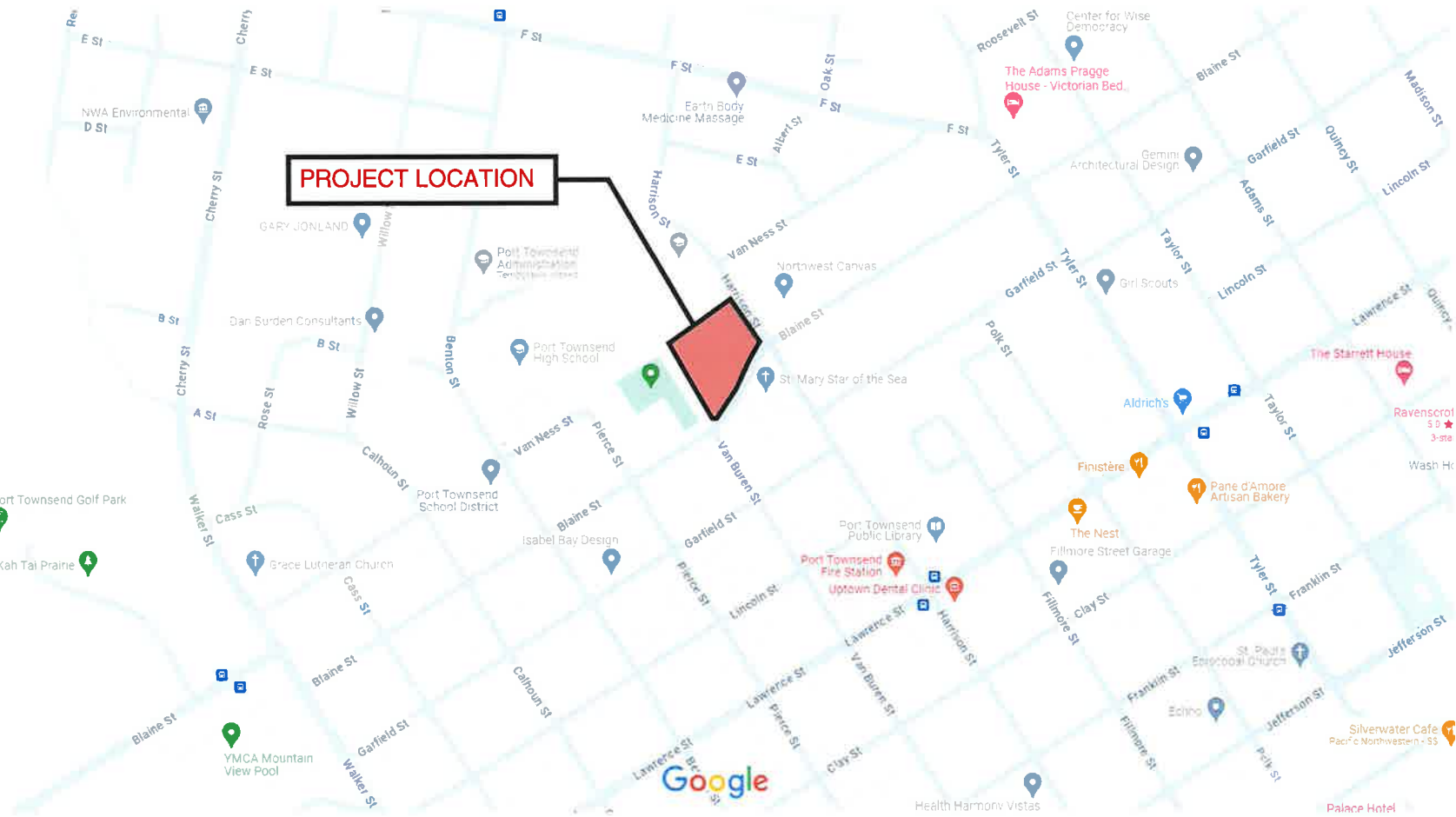
3. PREPARATION OF THE SUBGRADE – The Contractor shall prepare the surface of the various subgrades receiving subsequent pavement courses to the lines, grades, and dimensions given on the plans and as per the pavement design section of this report. The upper 12 inches of the soil subgrade beneath the pavement section shall be compacted to a minimum compaction of 95 percent of maximum dry density as determined by test method ASTM D1557. The finished subgrades shall be tested and approved by the Geotechnical Engineer prior to the placement of additional pavement of additional pavement courses.

4. AGGREGATE BASE – The aggregate base shall be spread and compacted on the prepared subgrade in conformity with the lines, grades, and dimensions shown on the plans. The aggregate base should conform to WSDOT Standard Specification for Crushed Surfacing Base Course or Top Course (Item 9-03.9(3)). The base material shall be compacted to a minimum compaction of 95 percent as determined by ASTM D1557. Each layer of subbase shall be tested and approved by the Geotechnical Engineer prior to the placement of successive layers.

5. ASPHALTIC CONCRETE SURFACING – Asphaltic concrete surfacing shall consist of a mixture of mineral aggregate and paving grade asphalt, mixed at central mixing plant and spread and compacted on a prepared base in conformity with the lines, grades, and dimensions shown on the plans. The drying, proportioning, and mixing of the materials shall conform to WSDOT Specifications.

The prime coat, spreading and compacting equipment, and spreading and compacting the mixture shall conform to WSDOT Specifications, with the exception that no surface course shall be placed when the atmospheric temperature is below 50 degrees F. The surfacing shall be rolled with combination steel-wheel and pneumatic rollers, as described in WSDOT Specifications. The surface course shall be placed with an approved self-propelled mechanical spreading and finishing machine.

6. TACK COAT – The tack (mixing type asphaltic emulsion) shall conform to and be applied in accordance with the requirements of WSDOT Specifications.

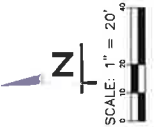
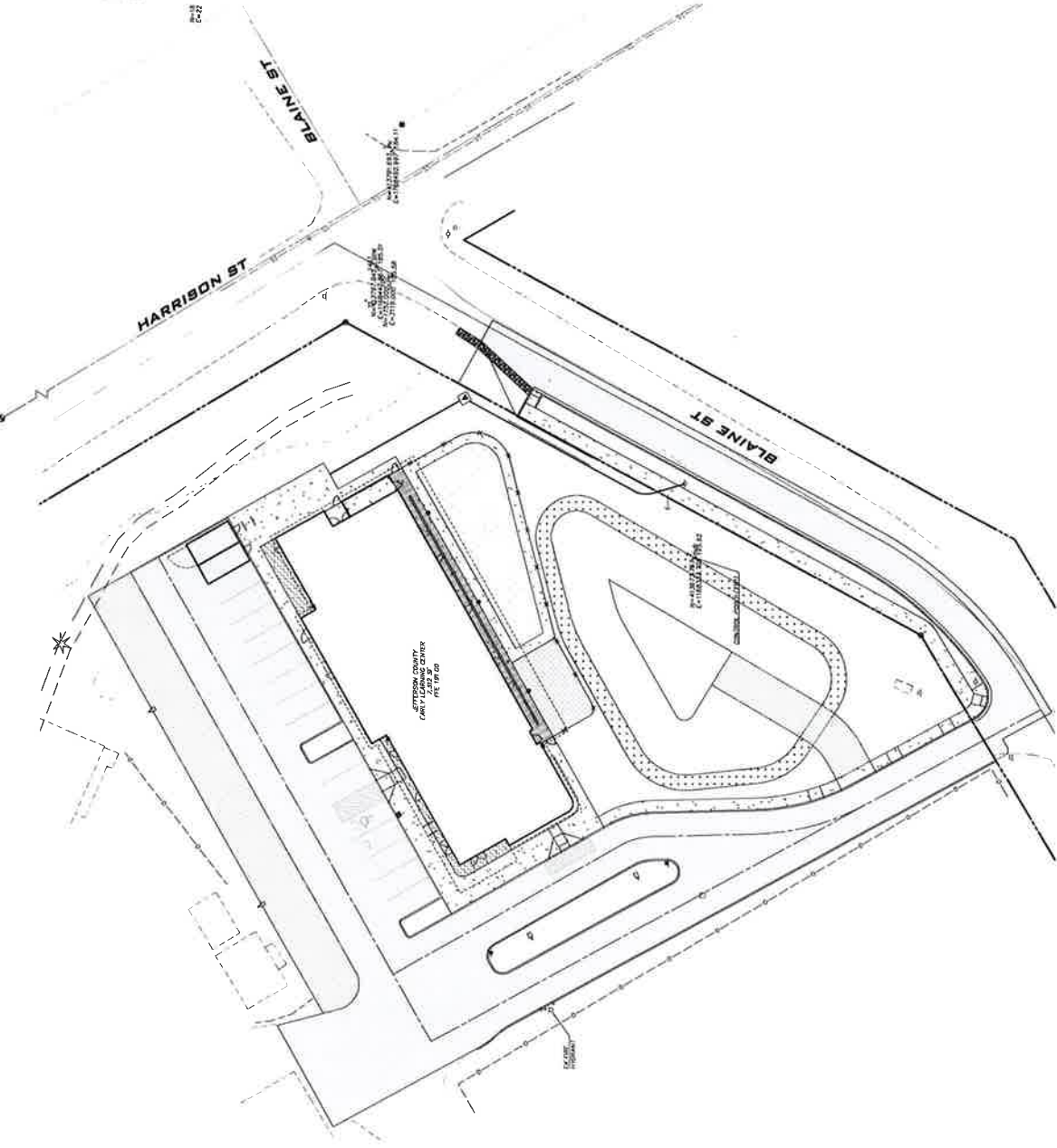


PROJECT LOCATION



SEC 2, TWP 30N, RGE 1W, W.M.

THE ALLIANCE GROUP, INC.
 CIVIL ENGINEERS AND SURVEYORS
 1100 HARRISON ST., SUITE 100
 WASHINGTON, DC 20004



BASIS OF BEARINGS

WASHINGTON COUNTY IS A SYSTEM OF TRUE ALTIMETER BEARS FROM FIELD MEASUREMENTS TO CITY OF PORT TOWNSEND. GEODETIC BEARINGS SHOWN HEREON ARE CORRECTED DISTANCES.

VERTICAL DATUM

VERTICAL DATUM IS THE MEAN SEA LEVEL OF PORT TOWNSEND GEODETIC CONTROL POINTS (PORTSDO AND PORTSDO1).

SURVEY NOTES

- 1) DRAWN AS SHOWN ON FIELD SURVEY CONDUCTED ON 02/28/2024.
- 2) IMPROVEMENTS UTILIZED SHOWN HEREON ARE BASED ON FIELD SURVEY CONDUCTED ON 02/28/2024.
- 3) PORT TOWNSEND GIS DATA AND PLAT BEARING DISTANCES WERE PROVIDED FOR THIS SURVEY. LOCATED WERE PROVIDED FOR THIS SURVEY.

PROJECT TEAM

ARCHITECT CIVIL ENGINEER
 ALLIANCE GROUP, INC.
 1100 HARRISON ST., SUITE 100
 WASHINGTON, DC 20004
 CONTACT: 202-546-1100

OWNER
 ALLIANCE GROUP, INC.
 1100 HARRISON ST., SUITE 100
 WASHINGTON, DC 20004
 CONTACT: BRUN VAN ALLER, PLS

SURVEYOR
 JACOB L. BRYAN, PLS
 1100 HARRISON ST., SUITE 100
 WASHINGTON, DC 20004
 CONTACT: BRUN VAN ALLER, PLS

SITE DATA

SITE ADDRESS: 1100 HARRISON ST, PORT TOWNSEND, WASHINGTON 98158
 ZONING: PD
 ZONING REGULATIONS (ZTA):
 CHANGING ZONING DISTRICTS ARE NOT ALLOWED USE WITHIN THE P-I ZONING DISTRICT.
 ZONING BOARD: PORT TOWNSEND PLANNING AND COMMUNITY DEVELOPMENT
 250 MARSH STREET
 PORT TOWNSEND, WA 98158
 (360) 378-5585

THE SQUARE FOOTAGE OF CONSTRUCTION BY THIS CONSTRUCTION SHALL BE COMPARED WITH THE SQUARE FOOTAGE OF CONSTRUCTION PERMITTED BY THE ZONING REGULATIONS.

SHEET INDEX

- 1 CV-01 COVER SHEET
- 2 GN-01 GENERAL NOTES
- 3 EC-01 EXISTING CONDITIONS
- 4 TP-01 TESC & DEMO PLAN
- 5 TP-02 TESC PHASE 2 PLAN
- 6 TD-01 TESC NOTES & DETAILS
- 7 HC-01 HORIZONTAL CONTROL PLAN
- 8 GP-01 GRADING PLAN
- 9 UP-01 UTILITY PLAN
- 10 RP-01 ROAD PROFILES
- 11 RD-01 DETAILS
- 12 WA-01 DETAILS
- 13 WT-01 DETAILS
- 14 DT-01 DETAILS
- 15 DT-02 DETAILS

EXISTING UTILITY NOTE

EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO WARRANTY AS TO THE ACCURACY OF THE LOCATION OF UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY CHANGES TO THE LOCATION OF UTILITIES SHALL BE MADE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF PORT TOWNSEND AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) PRIOR TO CONSTRUCTION.

ATWELL
 CIVIL ENGINEERS AND SURVEYORS
 1100 HARRISON ST., SUITE 100
 WASHINGTON, DC 20004

SCALE: 1" = 20'
 PROJECT MANAGER: JACOB L. BRYAN, PLS
 PROJECT ENGINEER: JACOB L. BRYAN, PLS
 SURVEYOR: JACOB L. BRYAN, PLS
 ISSUE DATE: 02/28/2024
 SURV: JACOB L. BRYAN, PLS

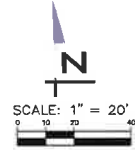
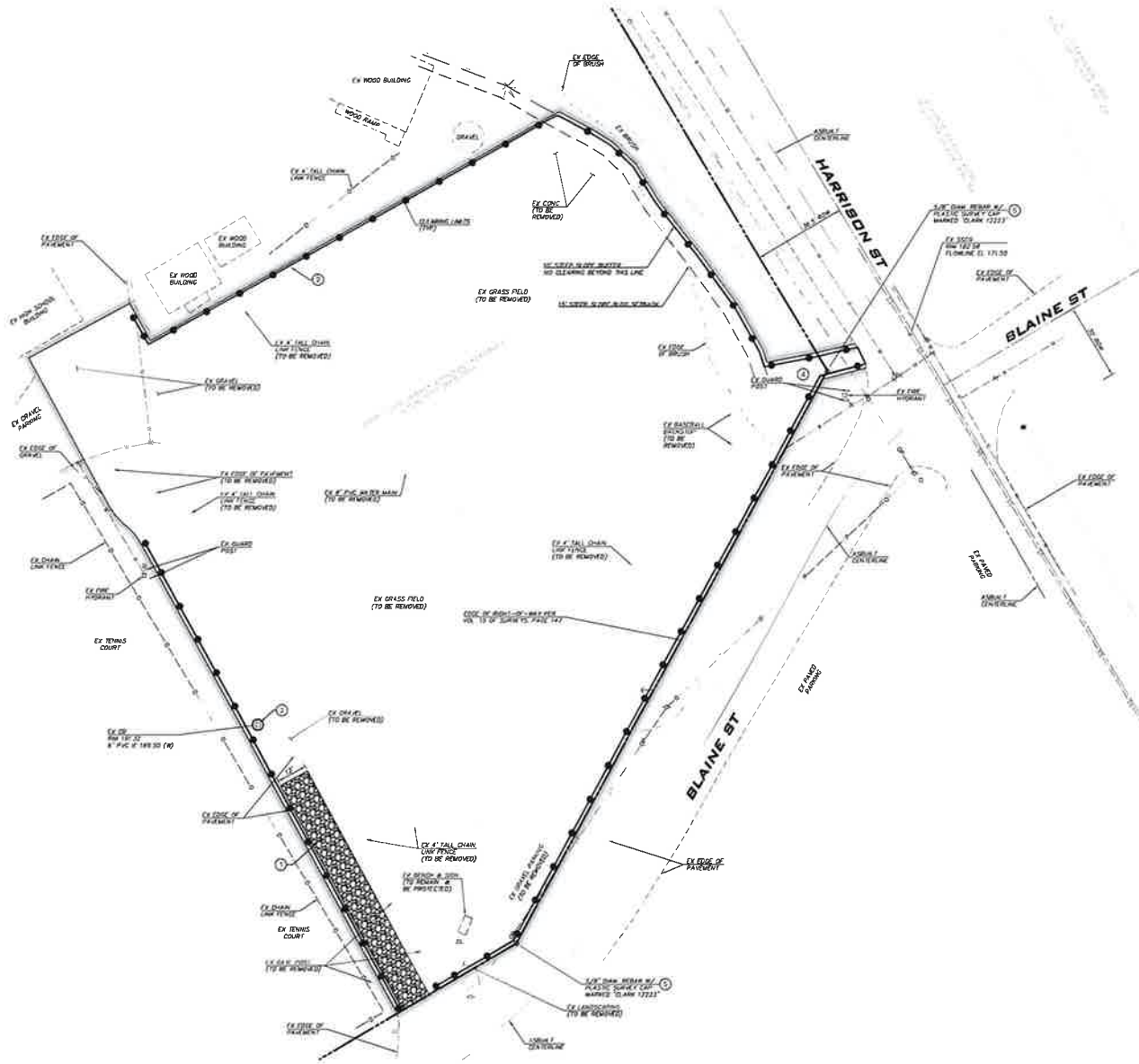
NO.	DATE	BY	REVISIONS

JCELC
 CIVIL PLANS
 02/28/2024
 CITY OF PORT TOWNSEND
 WASHINGTON

CITY OF PORT TOWNSEND

DATE: 02/28/2024
 SHEET NO: 23-157
 SHEET TITLE: CV-01
 SHEET OF: 1 OF 15

SEC 2, TWP 30N, RBE 1W, W.M.



KEY NOTES

- ① GRAVEL CONSTRUCTION ENTRANCE PER CITY DETAIL EC-6
- ② FILTER FABRIC INLET FENCE PER CITY DETAIL EC-7
- ③ FILTER FABRIC INLET FENCE PER CITY DETAIL EC-3
- ④ ON STEEP SLOPES FOR UTILITY TRENCHING, PLACE ALTE MAT OVER ROUGHENED SURFACE AND SEED AND MULCH WITH STRAW COVER.
- ⑤ PROTECT OR REFERENCE AND REPLACE PER STATE AND LOCAL REQUIREMENTS

EXISTING UTILITY NOTE
 EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL, THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 81-1-1 (WASHINGTON1.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



SCALE: AS NOTED
 PROJECT MANAGER: RICHARD MOHARR, P.E.
 PROJECT ENGINEER: BRADY BERRY, P.E.
 DESIGNER: NADIA KRUMHOLTZ
 ISSUE DATE: 02/28/2024

NO.	DATE	BY	REVISION

TEBG & DEMO PLAN
JCELC
 CIVIL PLANS
 02/28/2024
 CITY OF PORT TOWNSEND WASHINGTON



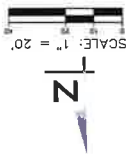
JOB NUMBER:
23-157
 SHEET NAME:
TP-01

SEC 2, TWP 30N, RGE 1W, W.M.

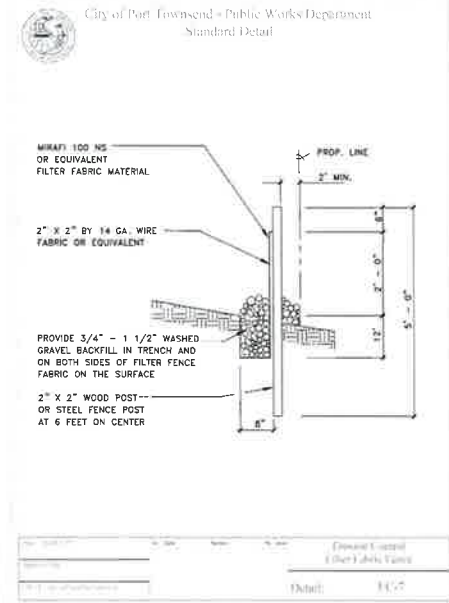
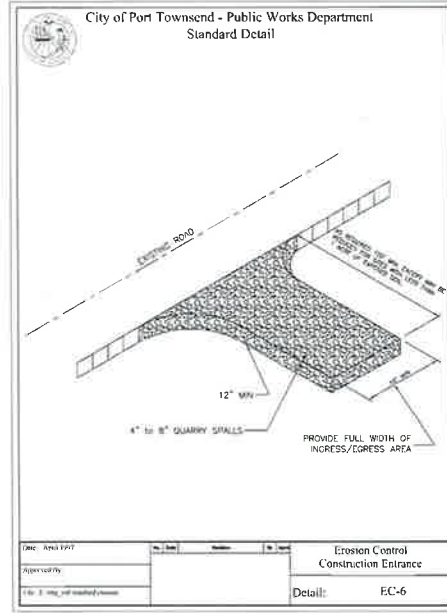
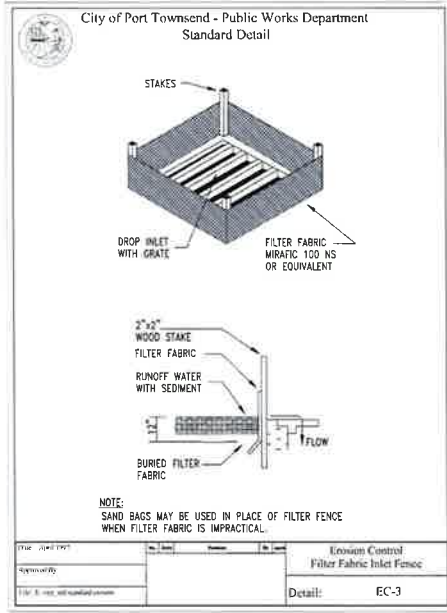
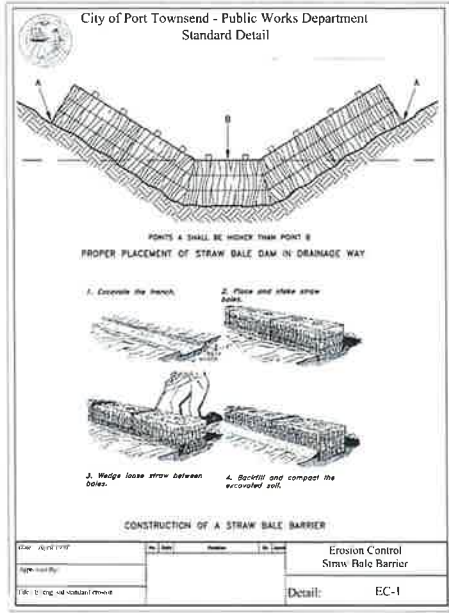


EXISTING UTILITY NOTE
 EXISTING UTILITIES ARE SHOWN IN THE APPROPRIATE LOCATION THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE DEPTH OR INTERFERENCE OCCURS PRIOR TO REMOVAL OR REPAIR. FOR ANY PIPE OR STRUCTURE TO BE REMOVED OR REPAIRED, THE CONTRACTOR SHALL MAKE THE ACTUAL LOCATION, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY AT 8-1-1 (WASHINGTON) AND THE APPLICABLE AGENCIES FOR PROTECTION OF SAID FACILITIES. THE ASSURANCE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

- KEY NOTES**
- 1) GRAVEL CONSTRUCTION ENTRANCE PER CITY DETAIL BOB WAINMAN UNTIL FINAL SURFACING
 - 2) FILTER FABRIC PER CITY DETAIL E.C.7 ADJUST AS NECESSARY TO ALLOW FOR COMPLETION OF THE WORK. INSTALL WOODSILS AS NECESSARY TO SUPPLEMENT FENCING WHEN PROTECTING NEW SLOPES
 - 3) FILTER FABRIC INLET FENCE PER CITY DETAIL E.C.3, PROTECT UNTIL FINAL SURFACING IN PLACE. INSTALL SLOPES AS NECESSARY TO PROTECT FINAL SURFACING
 - 4) ON SITE SLOPES FOR UTILITY TRENCHING, PLACE LITE AND OVER ROUNDHOLE SURFACE AND SEED AND MULCH WITH STRAW COVER
 - 5) INSTALL NEW FABRIC FENCING AT EXISTING CURBLINE AND 5' TO 10' FROM EXISTING ESTABLISHED LOCATION. PROTECTION UNTIL ALL WORK IS COMPLETED AND FINAL ESTABLISHMENT



	TESG PHASE 2 PLAN JCELC CIVIL PLANS 02/28/2024 WASHINGTON	NO.	DATE	BY	REVISION
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					



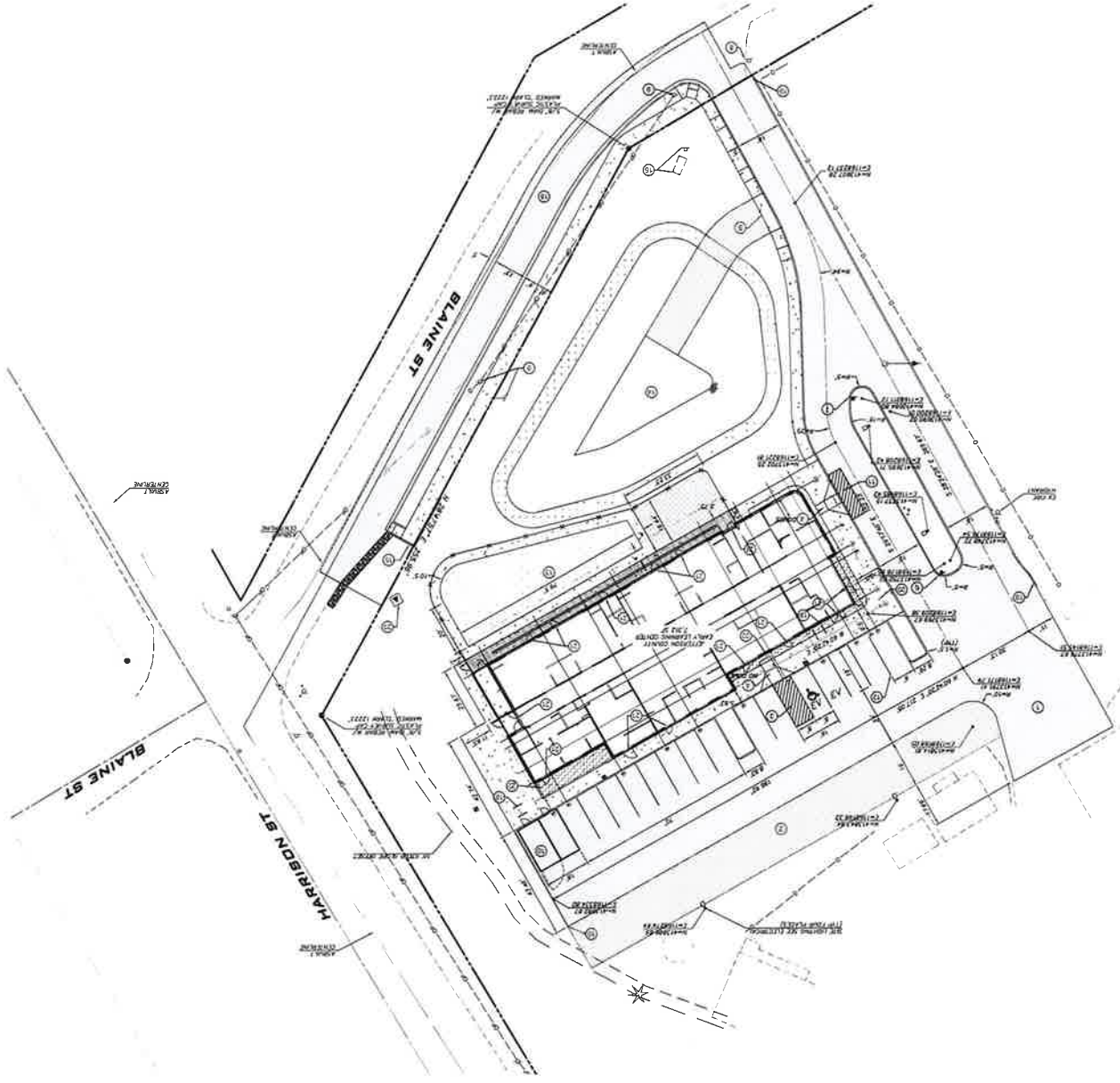
EXISTING UTILITY NOTE
EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL, THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 81-1-1 (WWW.ONECALL.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

 SCALE: AS SHOWN PROJECT MANAGER: RANDY MONAGHAN, PE PROJECT ENGINEER: BRADY BENTLEY, PE DESIGNER: NAOMI ANDERSON ISSUE DATE: 02/28/2024		REVISION#
NO	DATE	BY

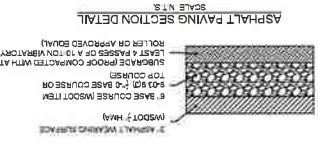
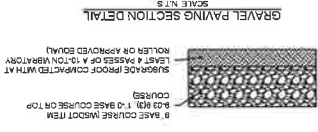
TESC NOTES & DETAILS
JCELC
 CIVIL PLANS
 02/28/2024
 WASHINGTON
 CITY OF PORT TOWNSEND



JOB NUMBER:
23-157
 SHEET NUMBER:
TD-01
 BHT 6 OF 15

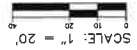


EXISTING UTILITY NOTE
 EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED UTILITIES FOR FIELD LOCATION OF EXISTING UTILITIES BEFORE CONSTRUCTION.



ENGINEERING INVESTIGATION FROM GRADEN & ASSOCIATES, INC. DATED JANUARY 31, 2024

- KEY NOTES**
- ASPHALT PAVING SEE DETAIL THIS SHEET
 - GRAVEL PAVING SEE DETAIL THIS SHEET
 - ACCESSIBLE STRIPING AND SIGNING SEE DETAIL SHEET 11
 - CURB RAMP SEE DETAIL 11
 - DRIVEWAY APRON SEE DETAIL 11
 - DO NOT ENTER SIGN 10
 - ONE WAY SIGN 10
 - EXISTING STOP SIGN TO REMAIN
 - POWER POLES AND OVER LINES TO REMAIN
 - TRASH ENCLOSURE AND FREEZER. SEE ARCHITECTURAL
 - YELLOW LOADING ZONE STRIPING
 - WHITE PARKING TRAFFIC PAVEMENT PAINT
 - OUTDOOR PLAY AREA. SEE LANDSCAPE PLANS
 - STORMWATER POND. SEE GRADING AND LANDSCAPE PLANS
 - DEBRIS BUILT UP KERSTON FOR RETAINING WALL. SEE RETAINING WALL AND CONCRETE WALL
 - EXISTING SIGN AND BENCH TO REMAIN
 - BANK STREET IMPROVEMENTS SEE SHEET 8
 - BIKE PARKING SEE ARCHITECTURAL
 - CURB SIGNING SEE DETAILS
 - SEE ARCHITECTURAL FOR SIDEWALK DETAILING AT EXISTING COLUMNS AND STRUCTURE FOR LOCATION
 - EXISTING DOORS (TYP) SEE STRUCTURAL FOR DETAILING OF SIDEWALK AT DOOR COLUMNS
 - PAINTED CONCRETE (TYP) SEE ARCHITECTURAL FOR PAVEMENT COLOR
 - TRANSPARENCY SEE UTILITY AND ELECTRICAL PLANS



SEC 2, TWP 30N, RBE 1W, W.M.

SHEET 7 OF 15
 HC-01
 23-157



HORIZONTAL CONTROL PLAN
JCELC
CIVIL PLANS
 02/28/2024
 CITY OF PORT TOWNSEND WASHINGTON

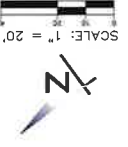
NO	DATE	BY	REVISION

SCALE: 1" = 20'
 AS NOTED
 PROJECT MANAGER:
 PROJECT ENGINEER:
 DESIGNER:
 CHECKED BY:
 ISSUE DATE:
 12/28/24



EXISTING UTILITIES ARE SHOWN IN THE APPROPRIATE LOCATION THERE IS NO GARANTTEE THAT ALL UTILITIES ARE SHOWN OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL VERIFY ALL INDICATED UTILITIES BY EXCAVATION FOR ANY PIPE OR IMPLICATIONS TO DETERMINE THE LOCATION, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAINTAIN THE APPROPRIATE PROTECTION FOR ANY EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY AT 8-1-1 (WASHINGTON COUNTY) AND MAINTAIN RECORD OF THE LOCATION OF ALL UTILITIES BEFORE CONSTRUCTION.

- 1 SAW CUT (APPARENT HIGH POINT)
- 2 CURB AND GUTTER SEE CITY DETAIL T-13
- 3 RIP-RAP AT END OF CURB AND GUTTER, MIN. 3' WIDE AND 18" DEEP SHAPE TO FORM SLOUGH SWALE.
- 4 TYPICAL SECTION SEE CITY DETAIL T-8 (MODIFIED)
- 5 CURB RAUP - TYPE A SEE DETAIL SHEET 13
- 6 CURB RAUP - TYPE B SEE DETAIL SHEET 13
- 7 DESIGN BUILD KERSTONE (OR EQUAL) MSE RETAINING/LANDSCAPE WALL
- 8 SEE UTILITY AND ELECTRICAL PLANS FOR SIZE AND NUMBER OF CONDUITS
- 9 EXISTING POWER EQUIPMENT TO REMAIN, PROTECT



DATE: 02/28/2024
PROJECT NUMBER: 23-157
SHEET NUMBER: R-P-01
SHT 10 OF 15

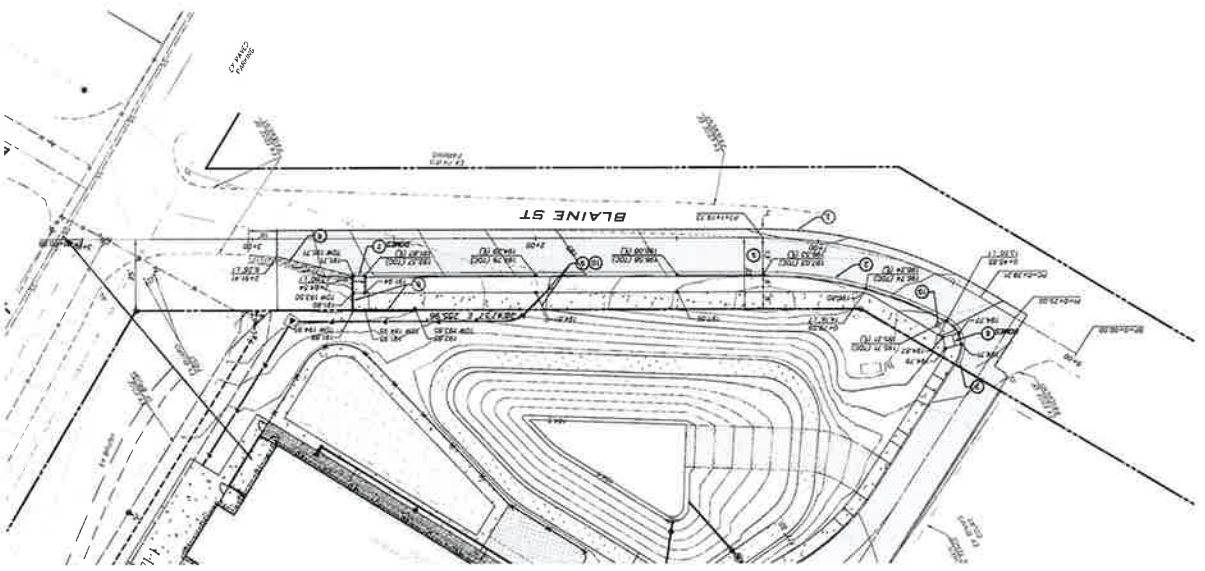
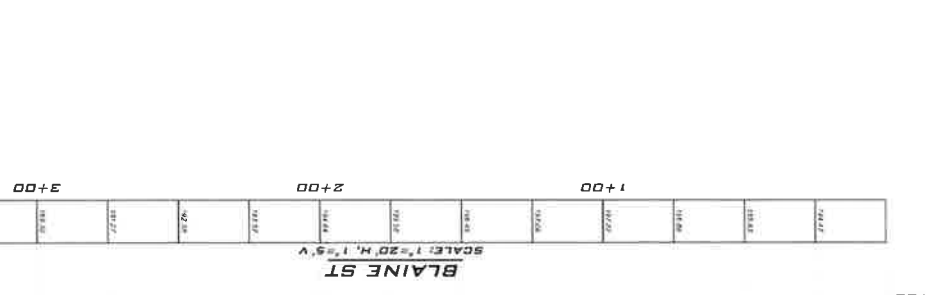


CITY OF PORT TOWNSEND

ROAD PROFILES
JCELC
CIVIL PLANS
02/28/2024 WASHINGTON

NO.	DATE	BY	REVISIONS

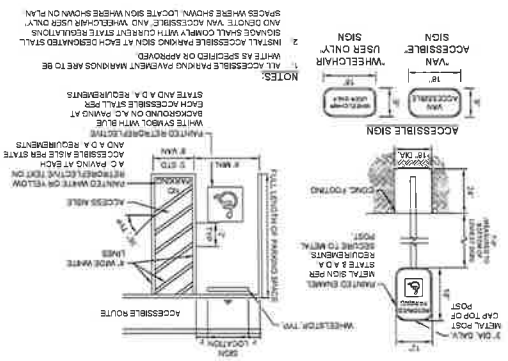
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DATE: 02/28/2024
PROJECT NUMBER: 23-157
SHEET NUMBER: R-P-01
CITY OF PORT TOWNSEND
ATWELL



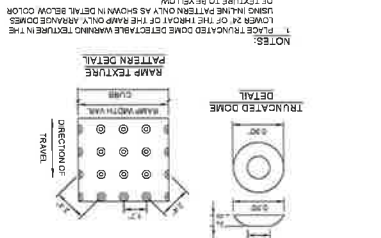
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DATE: 02/28/2024
PROJECT NUMBER: 23-157
SHEET NUMBER: R-P-01
SHT 10 OF 15

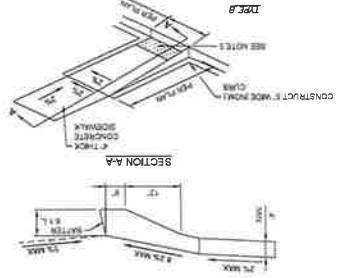
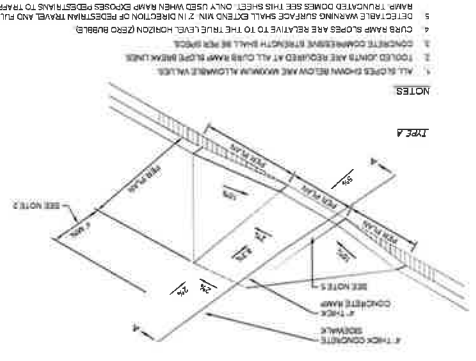
3 ACCESSIBLE STALL SIGNING AND MARKING
 SCALE: N.T.S.



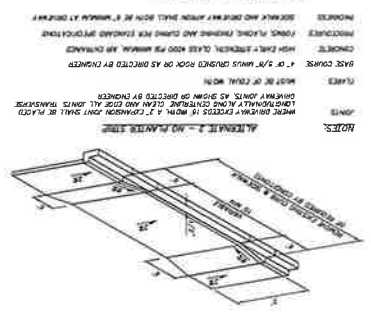
1 TRUNCATED DOMES
 SCALE: N.T.S.



3 CURB RAMPS
 SCALE: N.T.S.



3 DRIVEWAY APPROACH
 SCALE: N.T.S.



Standard Detail
 City of Port Townsend - Public Works Department

DOUBLE
 T-13
 (1) 1/4" and Thicker Type "A-1"

NOTES:

1. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
2. DRIVEWAY SHALL BE FINISHED TO 1/2" ABOVE FINISH DRIVEWAY SHALL BE 1/2" - 1/4" - 1/2" WITH 2" MIN. THICKNESS.
3. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
4. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
5. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
6. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
7. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
8. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
9. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
10. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.

TYPICAL SECTION

Standard Detail
 City of Port Townsend - Public Works Department

DOUBLE
 T-13
 (1) 1/4" and Thicker Type "A-1"

NOTES:

1. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
2. DRIVEWAY SHALL BE FINISHED TO 1/2" ABOVE FINISH DRIVEWAY SHALL BE 1/2" - 1/4" - 1/2" WITH 2" MIN. THICKNESS.
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6. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
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8. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
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TYPICAL SECTION

Standard Detail
 City of Port Townsend - Public Works Department

DOUBLE
 T-13
 (1) 1/4" and Thicker Type "A-1"

NOTES:

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6. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
7. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
8. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
9. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
10. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.

TYPICAL SECTION

1	2	3	4	5	6	7	8	9	10
1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"

Standard Detail
 City of Port Townsend - Public Works Department

DOUBLE
 T-13
 (1) 1/4" and Thicker Type "A-1"

NOTES:

1. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
2. DRIVEWAY SHALL BE FINISHED TO 1/2" ABOVE FINISH DRIVEWAY SHALL BE 1/2" - 1/4" - 1/2" WITH 2" MIN. THICKNESS.
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6. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
7. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
8. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
9. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.
10. FINISH SHALL BE THE FINISH OF THE EXISTING DRIVEWAY.

TYPICAL SECTION

ATWELL
 CIVIL ENGINEERS
 1234 5th Avenue
 Port Townsend, WA 98144
 (360) 335-1234

DETAILS
JCELC
CIVIL PLANS
 02/28/2024
 CITY OF PORT TOWNSEND
 WASHINGTON

NO.	DATE	BY	REVISION

ATWELL
 CIVIL ENGINEERS
 1234 5th Avenue
 Port Townsend, WA 98144
 (360) 335-1234



ATWELL
 CONSULTING ENGINEERS
 1100 10th Street, NW
 Seattle, WA 98101
 (206) 461-1100

SCALE: AS NOTED
 PROJECT MANAGER: KIMBERLY MCNABR, PE
 PROJECT ENGINEER: BRADY BERRY, PE
 DESIGNER: NADIA KROMOVA
 ISSUE DATE: 02/28/2024

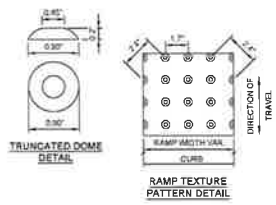
NO.	DATE	BY	REVISION

DETAILS
JGELC
 CIVIL PLANS
 02/28/2024
 CITY OF PORT TOWNSEND WASHINGTON



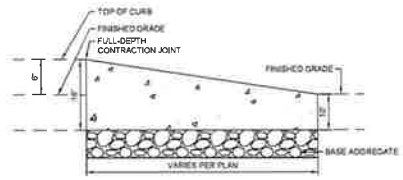
JOB NUMBER:
23-157
 SHEET NAME:
RD-02

ACCESSIBLE PAVEMENT STALL MARKINGS
 NOT TO SCALE



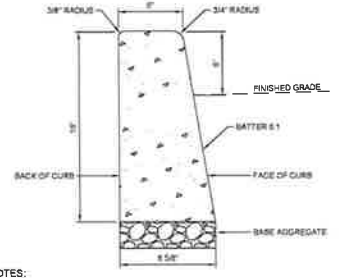
NOTES:
 1. PLACE TRUNCATED DOME DETECTABLE WARNING TEXTURE IN THE LOWER 24" OF THE THROAT OF THE RAMP ONLY. ARRANGE DOMES USING IN-LINE PATTERN ONLY AS SHOWN IN DETAIL BELOW. COLOR OF TEXTURE TO BE YELLOW.

① **TRUNCATED DOMES**
 SCALE: N.T.S.



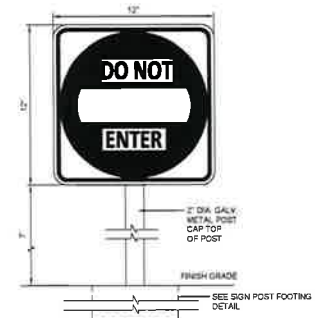
NOTES:
 1. CURB EXPOSURE IS 6". VARY STANDARD CURB ONLY AS DIRECTED.
 2. CONSTRUCT CONTRACTION JOINTS AT 15' MAXIMUM SPACING AND SPACING AND AT ENDS OF EACH INLET AND RAMP.
 3. TOPS OF ALL CURBS SHALL SLOPE TOWARD THE ROADWAY AT 1.2% MAX. (MAX 2.0% FINISHED SURFACE SLOPE), UNLESS OTHERWISE SHOWN OR AS DIRECTED.
 4. CONCRETE COMPRESSIVE STRENGTH SHALL BE PER SPECS.
 5. BASE AGGREGATE TO BE PLACED ON COMPACTED FILL PER SPECS.

② **CURB ENDING**
 SCALE: N.T.S.



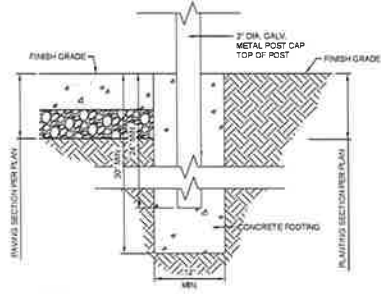
NOTES:
 1. CURB EXPOSURE IS 6". VARY CURB ONLY AS DIRECTED.
 2. CONSTRUCT CONTRACTION JOINTS AT 15' MAXIMUM SPACING AND AT ENDS OF EACH INLET AND RAMP.
 3. TOPS OF ALL CURBS SHALL SLOPE TOWARD THE FACE OF CURB AT 1.2% MAX. (MAX 2.0% FINISHED SURFACE SLOPE), UNLESS OTHERWISE SHOWN OR AS DIRECTED.
 4. CONCRETE COMPRESSIVE STRENGTH SHALL BE PER SPECS.
 5. BASE AGGREGATE TO BE PLACED ON COMPACTED FILL PER SPECS.

③ **STANDARD CURB**
 SCALE: N.T.S.



NOTES:
 1. SIGN SHALL HAVE WHITE LETTERS ON RED REFLECTIVE BACKGROUND. SIGN MUST COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

④ **"DO NOT ENTER" SIGN**
 SCALE: N.T.S.



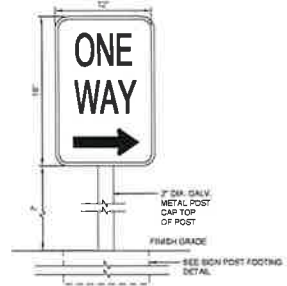
NOTES:
 1. FOR PIPE SIGN POST INSTALLATION IN LANDSCAPE OR PAVING SECTION.
 2. SIGN POST SHALL BE VERTICAL.
 3. FOR OTHER INSTALLATION DETAILS FOLLOW MANUFACTURER'S INSTRUCTIONS.

⑤ **SIGN POST FOOTING**
 SCALE: N.T.S.



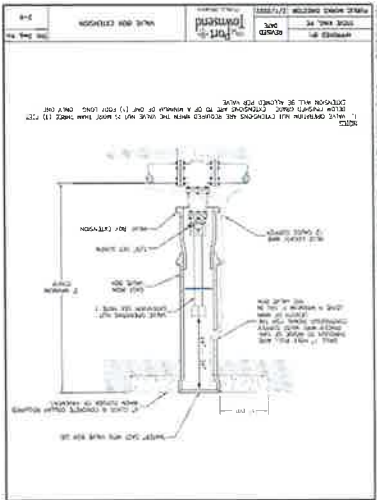
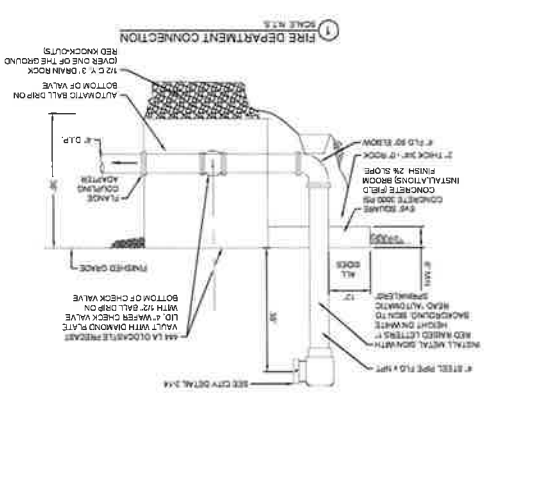
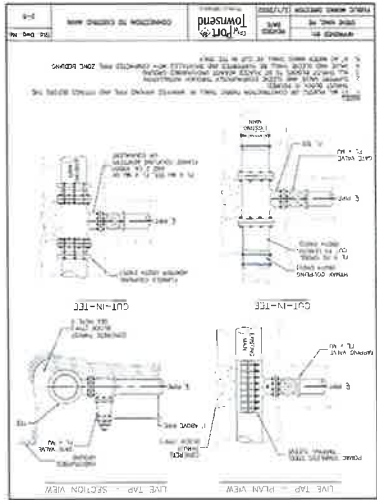
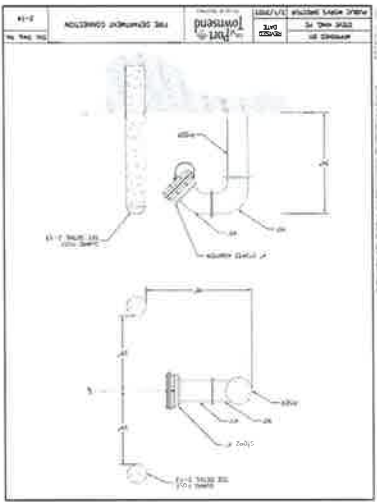
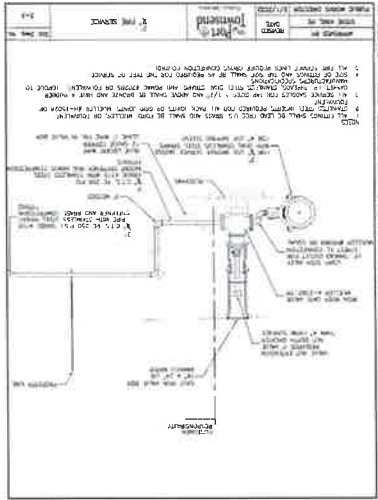
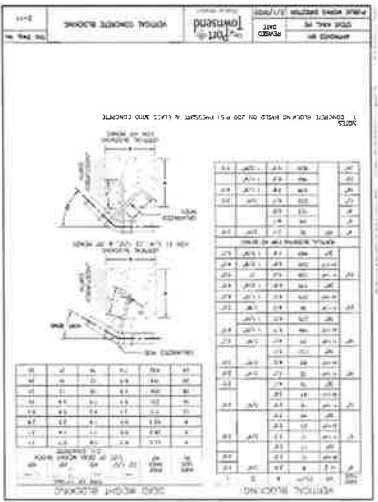
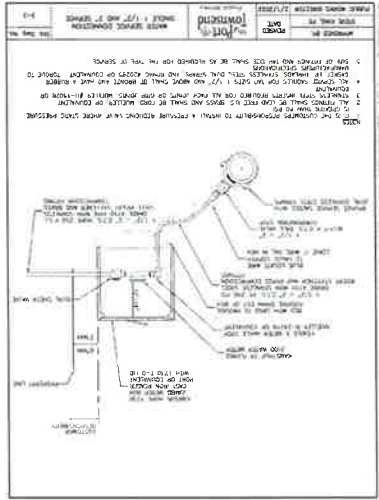
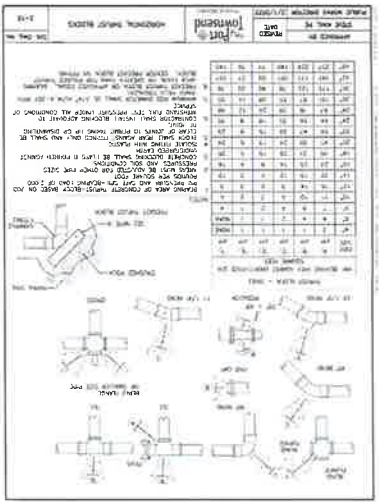
NOTES:
 1. SIGN SHALL HAVE WHITE LETTERS ON RED REFLECTIVE BACKGROUND. SIGN MUST COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

⑥ **"LOADING ZONE ONLY" SIGN**
 SCALE: N.T.S.



NOTES:
 1. SIGN SHALL HAVE WHITE LETTERS ON RED REFLECTIVE BACKGROUND. SIGN MUST COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

⑦ **"ONE WAY" SIGN**
 SCALE: N.T.S.

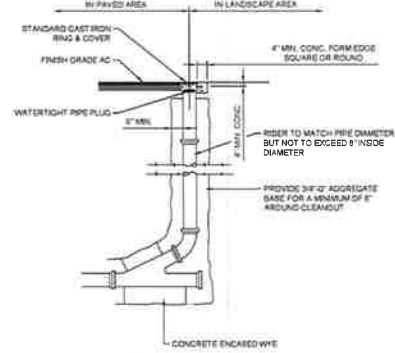
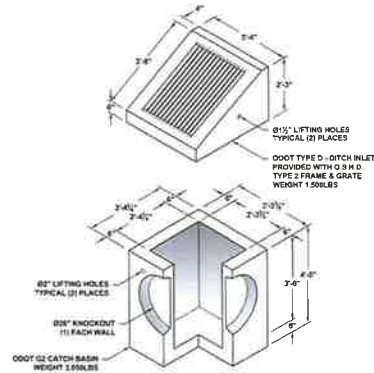


ATWELL
 PROJECT MANAGER: [Name]
 PROJECT ENGINEER: [Name]
 DESIGNER: [Name]
 DRAWING NO.: [Number]
 DATE: [Date]
 SCALE: [Scale]

JGELC
 CIVIL PLANS
 02/28/2024
 WASHINGTON
 CITY OF PORT TOWNSEND

DRAWINGS
 23-157
 SHEET NO. 1
 WA-01
 BHT 13 OF 15

O.D.O.T. - G2 CATCH BASIN WITH DITCH INLET



1 CLEAN OUT (C.O.) SCALE N.T.S.

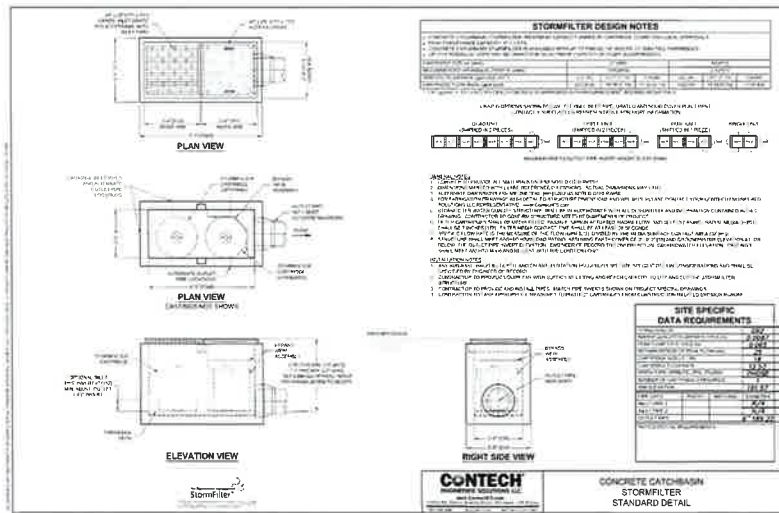
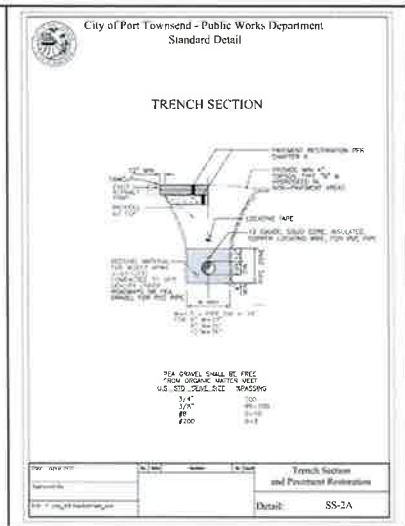
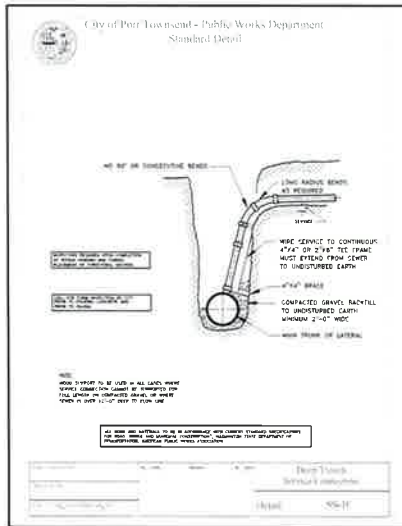
CPP Columbia logo and contact information for the design firm.



SCALE: AS SHOWN
PROJECT MANAGER: AMBERLY WAGNER, PE
PROJECT ENGINEER: BRADY BERRY, PE
DESIGNER: NADIA AHMEDNOR
ISSUE DATE: 02/29/2024

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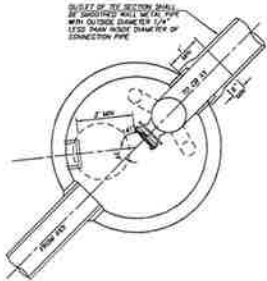
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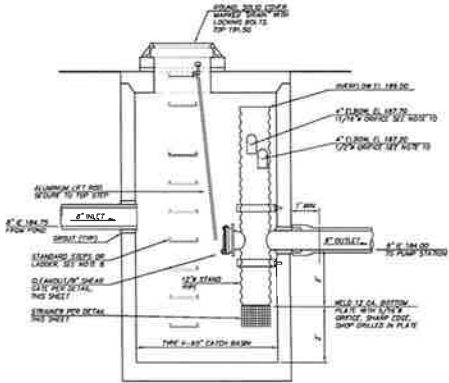
DETAILS
JOCELC
CIVIL PLANS
02/28/2024
CITY OF PORT TOWNSEND WASHINGTON



JOB NUMBER: 23-157
STREET CROSSING: DT-01
BHT 14 OF 15



PLAN VIEW



SECTION VIEW

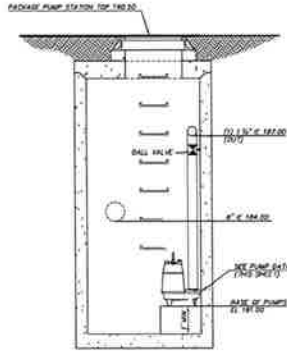
1 FLOW CONTROL STRUCTURE
TYPE II CS, 60
SCALE NTS

NOTES
ATTACH SCREEN TO OUR CROSS WY
5-1\"/>

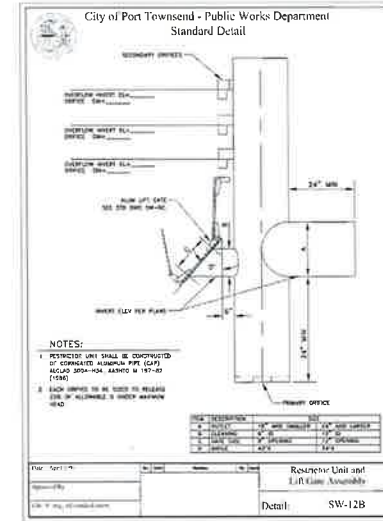


STRAINER

- NOTES:
1. PIPE SIZES AND SLOPES PER PLANS
 2. SILENT CAPACITY NOT LESS THAN COMBINED INLETS
 3. EXCEPT AS SHOWN OR NOTED, UNITS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS FOR CATCH BASIN TYPE 6, 60" MIN DIA
 4. PIPE SUPPORTS AND RESTRICTOR/SEPARATOR SHALL BE OF SAME MATERIAL, AND BE ANCHORED AT 3' MAX SPACING BY 3/8" STAINLESS STEEL EXPANSION BOLTS OR EMBEDDED 2" IN WALL
 5. THE RESTRICTOR/SEPARATOR SHALL BE FABRICATED FROM 0.080" ALUMINUM OR 0.084 ALUMINIZED STEEL, OR 0.064 GALVANIZED STEEL PIPE, IN ACCORDANCE WITH AASHTO M 36, M 78, M 127 AND M 274. GALVANIZED STEEL SHALL HAVE TREATMENT 1.
 6. OUTLET SHALL BE CONNECTED TO CULVERT OR SEWER PIPE WITH A STANDARD GASKETING BAND FOR CORRUGATED METAL PIPE, OR GROUTED INTO WELL FOR CONCRETE PIPE.
 7. THE VERTICAL RISER STEM OF THE RESTRICTOR/SEPARATOR SHALL BE THE SAME DIA AS THE HORIZONTAL OUTLET PIPE. WITH AN 8" MIN DIA.
 8. FRAME AND LADDER OR STEPS OFFSET SO THAT:
A. CLEARANCE AT TOP IS HOLE FROM TOP
B. CLIMB DOWN SPACE IS CLEAR OF RISER & CLEANOUT GATE
C. FRAME IS CLEAR OF CURB
 9. IF METAL OUTLET PIPE CONNECTS TO CONCRETE PIPE, OUTLET PIPE TO HAVE SMOOTH OUTSIDE DIAMETER EQUAL TO CONCRETE PIPE TO LESS 1/4".
 10. MULTI-OUTLET ELBOWS MAY BE LOCATED AS SHOWN OR ALL ON ONE SIDE OF RISER TO ASSURE LADDER CLEARANCE.
 11. PACKAGE PUMP STATION
 - 11.1. TWO 45 TONNING PUMPS
 - 11.2. PUMPS 30 DWP AT 10N TO FEET
 - 11.3. MINIMUM 36" DIAMETER MET WELL
 - 11.4. PUMP SWITCHING
100 SO ALARM
168 SO LAG PUMP ON
180 SO LAG PUMP OFF
184 SO LEAD PUMP ON
185 SO LEAD PUMP OFF
 - 11.5. LID WITH LOCKING CLASIP
 - 11.6. ALARM AND CONTROL PANEL AT THE PUMP STATION COORDINATE WITH ELECTRICAL FOR SERVICE FROM BUILDING.
 - 11.7. CONTRACTOR TO PROVIDE SUBMITTAL PACKAGE FOR APPROVAL.



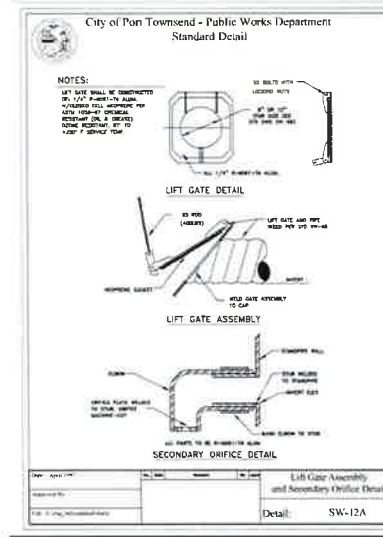
2 PACKAGE PUMP STATION
CONCRETE OR FIBERGLASS
SCALE NTS



NOTES:
1. RESTRICTOR UNIT SHALL BE CONSTRUCTED OF CORRUGATED ALUMINUM PIPE (GATE ACCORD 2024-1024 AASHTO M 147-20 (100)
2. EACH OFFICE TO BE SIZED TO HOLDING FOR AN ALLOWABLE 2 HOUR MAXIMUM 1800

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR BIDDING	02/28/2024	JCE/C
2	REVISED TO ADD SECONDARY OFFICE	03/14/2024	JCE/C

Author: JCE/C
Checked: JCE/C
Reviewed: JCE/C
Scale: 1" = 1'-0"
Detail: SW-12B



NOTES:
1. GATE SHALL BE CONSTRUCTED TO LIFT PUMPS WITH ALUM. ALUMINIZED STEEL W/REINFORCING BARS WITH 100#-40 CONCRETE REINFORCEMENT (CR. 60,000) USING REINFORCEMENT BY TO 2" DIA. 7" SPACING TOP.

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR BIDDING	02/28/2024	JCE/C
2	REVISED TO ADD SECONDARY OFFICE	03/14/2024	JCE/C

Author: JCE/C
Checked: JCE/C
Reviewed: JCE/C
Scale: 1" = 1'-0"
Detail: SW-12A

ATWELL
 1015 BROADWAY, SUITE 200
 PORTLAND, OREGON 97202
 PHONE: 503.255.1200
 FAX: 503.255.1201
 WWW.ATWELL.COM

SCALE:
AS NOTED

PROJECT MANAGER:
ANDREY MOKREAN, PE

PROJECT ENGINEER:
BRADY ADAMS, PE

DRAWN:
MARLA ANDERSON

ISSUE DATE:
02/28/2024

NO.	DATE	BY	REVISIONS

JCE/C
 CIVIL PLANS
 02/28/2024
 WASHINGTON
 CITY OF PORT TOWNSEND

02/21/23

JOB NUMBER:
23-157

SHEET NUMBER:
DT-02

BHT **15** OF **15**

2/28/24 10:50 AM - 11:15 AM - Used for...
 C:\Users\jce\Documents\2024\157\157-02\157-02-DT-02.rvt

TAG	DESCRIPTION	BASE OF DESIGN	FINISH/COLOR	REMARKS
WD-1	1/2" WOOD CLADDING	MONTANA TAPER ACQUA/FIR WESTERN RED CEDAR, TEX CAP 1/8"	T80 / T80	VERTICAL ORIENTED, NAIL FASTENED
EP-1	EXTERIOR PAINT	VARIES BY SUBSTRATE. SEE SPECS FOR ADD. INFO.	T80	PRIMARY COLOR
EP-2	EXTERIOR PAINT	VARIES BY SUBSTRATE. SEE SPECS FOR ADD. INFO.	T83	ACCENT COLOR
FD-1	CEMENT BOARD SIDING	HARDE SHINGLE SIDING	SMOOTH / EP-1	PRIMED FOR PAINT
FD-2	CEMENT BOARD PANELS	HARDE PANEL	SMOOTH / EP-2	PRIMED FOR PAINT
FD-3	CEMENT BOARD SIDING	HARDE PLANK LAP SIDING	SMOOTH / EP-1	PRIMED FOR PAINT
FD-4	CEMENT BOARD TRIM	1" HARDE TRIM	SMOOTH / EP-1	WIDTH VARIES (SEE DETAILS), PRIMED FOR PAINT
FD-5	CEMENT BOARD TRIM	1" HARDE TRIM	SMOOTH / EP-2	WIDTH VARIES (SEE DETAILS), PRIMED FOR PAINT

TAG	COMPOSITE R-VALUE	FIRE RESISTANCE	DESCRIPTION	ASSEMBLY
EW-1	R-21	NON-BEARING	SHINGLE SIDING FACADE OVER W/ STUD FRAMING W/ EXT INSUL.	CEMENT BO SIDING, SEE EXTERIOR FINISH MATERIAL SCHEDULE 1/2" FIRE TREATED VERTICAL W/ FLURRING DUPONT ARMORSEAL @ ALL FASTENERS AND BEAMS 3 3/4" (7" WHERE NOTED) DUPONT ARMORWALL PLUS 2X6 WOOD STUD FRAMING @ 16" OC MAX (LS) MINERAL WOOL INSULATION WHERE NOTED! 5/8" TYPE-X GYP BD. RE. ROOM FINISH SCHEDULES AND WALL GENERAL PARTITION NOTES
EW-2	R-21	NON-BEARING	WOOD CLADDING FACADE OVER W/ STUD FRAMING W/ EXT INSUL.	WOOD CLADDING, SEE FINISH SCHEDULE 1/2" VENTILATED INT. MIT CHANDEL DUPONT ARMORSEAL @ ALL FASTENERS AND SEAMS 3 3/4" DUPONT ARMORWALL PLUS 2X6 WOOD STUD FRAMING @ 16" OC MAX 5/8" TYPE-X GYP BD. RE. ROOM FINISH SCHEDULES AND WALL GENERAL PARTITION NOTES

ELEVATION KEYNOTES
E01 STEEL CANOPY SUPPORT SEE STRUCTURAL DWGS. PAINTED COLOR BY ARCH.
E04 EXPOSED WD ROOF JOIST PAINTED COLOR BY ARCH.
E05 STEEL BEAM SEE STRUCTURAL DWGS. PAINTED COLOR BY ARCH.
E06 WD-1 @ UNDERSIDE OF CANOPY
E07 STANDING SEAM MET. ROOF. SEE ROOF PLAN.
E08 PREFINISHED ALUMINUM LETTER SIGNAGE EXTERNALLY ILLUMINATED.
R02 PREFIN ALUMINUM SHOP FABRICATED BOX BUTTER W/ CONDENSATE PANCA. COLOR BY ARCH. SEE TA09A. SLOPE 1/8" PER FOOT TOWARDS DRAINAGE.
R03 PREFIN ALUMINUM ROOF RIDGE CAP BY ROOF MNFR. COLOR BY ARCH.
R04 PREFIN ALUMINUM PEAK FLASHING BY ROOF MNFR. COLOR BY ARCH.
R05 PREFIN ALUMINUM GABLE FLASHING BY ROOF MNFR. COLOR BY ARCH.
R10 PREFIN ALUMINUM COPING, COLOR BY ARCH.

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OWNER: OLYMPIA PENNSYLVANIA
870 N 7th AVE SUITE 2A
SEASIDE WA 98138
(360) 504-0256

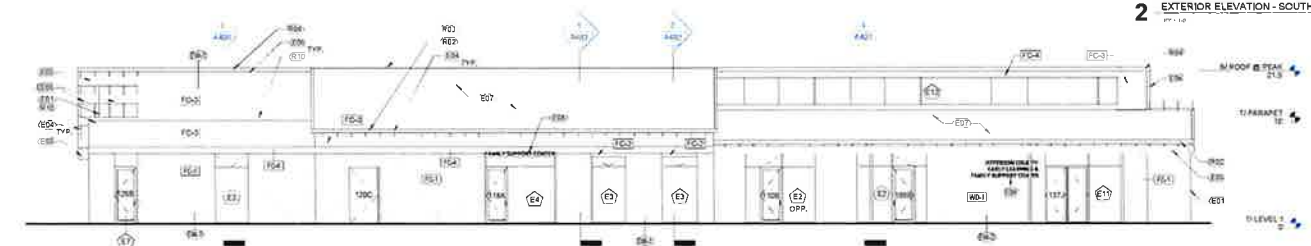
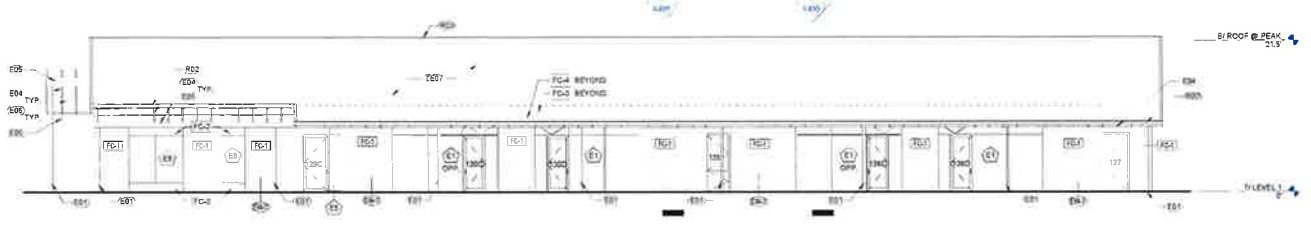
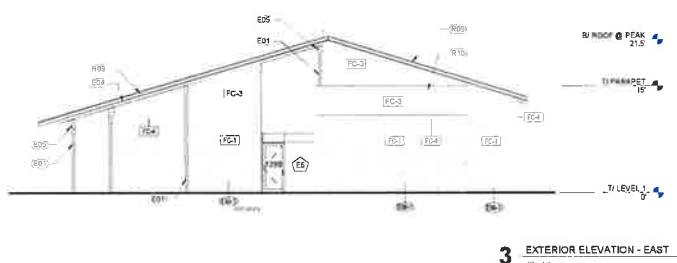
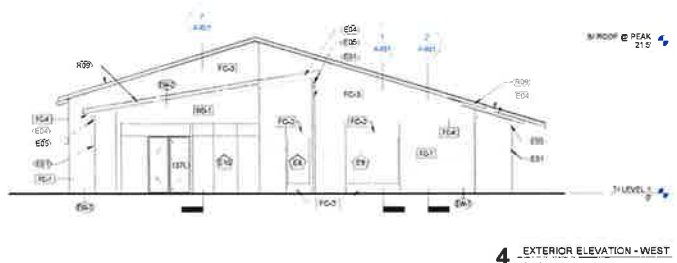
ARCHITECT: PREDENT FUTURE ARCHITECTS
1147 W 4th STREET 45th
CHICAGO, IL 60607
(312) 954-1322

DESIGNER: STUDIO ST.
104 LAWRENCE STREET
PORT TOWNSEND, WA 98341
(360) 548-8914

CBL: ATWELL, LLC
118 BROADWAY SUITE 210
TACOMA, WA 98402
(425) 252-7234

STRUCTURAL: MEYER BORGHAM JOHNSON
111 LAUREL STREET SUITE 1205
CHICAGO, IL 60607
(312) 671-4268

MFP: MCCOY ENGINEERS
225 S WENDELL PLAZA SUITE 202
CHICAGO, IL 60606
(312) 543-2477



JEFFERSON COUNTY EARLY
LEARNING CENTER
STREET,
PORT TOWNSEND, WA 98368

3	PERMIT	2023-02-09
2	DESIGN DEVELOPMENT	2023-10-20
1	SCHEMATIC DESIGN	2023-06-02
SHEET DESCRIPTION		DATE
ARCHITECT'S PROJECT NO.		2217



EXTERIOR ELEVATIONS

A200

EXISTING GRADE TO EXISTING AND PROPOSED



Sheet List Table		
Sheet Number	Sheet Title	Sheet Description
1	L0-00	LANDSCAPE COVER SHEET & SHEET INDEX
2	L1-00	MATERIALS SCHEDULE
3	L1-01	MATERIALS PLAN
4	L2-00	IRRIGATION SCHEDULE & NOTES
5	L2-01	IRRIGATION PLAN
6	L3-00	PLANTING SCHEDULE & NOTES
7	L3-01	PLANTING PLAN
8	L4-01	PLANTING DETAILS
9	L4-02	IRRIGATION DETAILS
10	L4-03	IRRIGATION DETAILS
11	L4-04	DETAILS

ATWELL

1110 EAST WASHINGTON STREET, SUITE 100
CHICAGO, IL 60601
TEL: (312) 467-1200
WWW.ATWELLDESIGN.COM

OWNER: DRYDEN PENINSULA TRICA
371 WYOMING STREET, SUITE 200
SEGLAN WA 98382
(360) 304-0500

ARCHITECT: PRESENT FUTURE ARCHITECTS
111 W OGDEN STREET, #104
CHICAGO, IL 60642
(312) 943-1200

DESIGNER: ATWELL LLC
1344 LAURENCE STREET
PORT TOWNSEND, WA 98368
(360) 342-8810

ENGINEER: ATWELL LLC
1344 LAURENCE STREET, SUITE 100
PORT TOWNSEND, WA 98368
(360) 342-8810

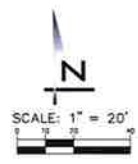
STRUCTURAL: KEVIN BURMAN JOHNSON
111 LAURENCE STREET, SUITE 200
CHICAGO, IL 60601
(312) 467-1200

MEP: MICHAEL BURMAN
300 S BOSTON STREET, SUITE 200
CHICAGO, IL 60601
(312) 467-1200

**JEFFERSON COUNTY EARLY
LEARNING CENTER**

PORT TOWNSEND, WA 98368

NO.	DESCRIPTION	DATE
1	ARCHITECT'S PROJECT NO.	2217



UNDERGROUND UTILITY NOTE

UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL, THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



01/23/2024

LANDSCAPE
COVER SHEET &
SHEET INDEX

L0-00

REFERENCE NOTES SCHEDULE

SYMBOL	Athletic & Recreational Special Construction DESCRIPTION	QTY
	PLAY STRUCTURE - SELECTION AND LOCATIONS TO BE DETERMINED BY VENDOR	1
	PLACE STRUCTURE - SELECTION AND LOCATIONS TO BE DETERMINED BY VENDOR	1
	PLAY STRUCTURE - SELECTION AND LOCATIONS TO BE DETERMINED BY VENDOR	1
SYMBOL	Fences & Gates DESCRIPTION	QTY
	FENCE - REFER TO A100 FOR SELECTION	228 lf
	GATE - REFER TO A100 FOR SELECTION	4
SYMBOL	Site Furnishings DESCRIPTION	QTY
	BICYCLE PARKING - PACIFIC OUTDOORS - STEEL- POWDER COAT BLACK	4
SYMBOL	Wood Decking DESCRIPTION	QTY
	DECKING - REFER TO A100 FOR SELECTION	664 sf
SYMBOL	Athletic & Recreational Special Construction DESCRIPTION	QTY
	RESILIENT PLAY SURFACE - POURED-IN-PLACE - REFER TO A100 FOR SELECTIONS	1,787 sf
SYMBOL	Rigid Paving DESCRIPTION	QTY
	PEDESTRIAN SURFACE - REFER TO CIVL	5,774 sf
	PEDESTRIAN SURFACE - PAVEMENTED CONCRETE - REFER TO CIVL	504 sf
SYMBOL	Aggregate Surfaces DESCRIPTION	QTY
	VEHICULAR SURFACE - 3/8-INCH MAXIMUM CRUSHED - 4-INCH DEPTH - AGGREGATE - LOCALLY SOURCED - COMPACT 90-PERCENT	4,554 sf
SYMBOL	Planting Preparations DESCRIPTION	QTY
	PLANTING FINISH - BARK MULCH - 3-INCH DEPTH	287 sf
	PLANTING FINISH - BLACK SLATE CHIP MULCH - 3-INCH DEPTH - COMMODITY BLACK SLATE 1-INCH AVAILABLE THROUGH THE HOME DEPOT - http://hom Depot.com	104 sf


ATWELL
 15 CENTRAL AVENUE, SUITE 400
 PORT TOWNSEND, WA 98368
 P 425.7446 F 425.7447
 WWW.ATWELL.COM

OWNER SILVER PINNACLES PACA
 875 STRONG, SUITE 4
 SECOLIA, WA 98301
 (360) 848-8814

ARCHITECT PRELUDY FUTURE ARCHITECTS
 1140 W. CHASE STREET, 451A
 CHICAGO, IL 60647
 (312) 831-1100

DESIGNER ATWELL, LLC
 1044 LAWRENCE STREET,
 PORT TOWNSEND, WA 98368
 (360) 848-8814

ENGINEER ATWELL, LLC
 1148 BROADWAY, SUITE 210
 TACOMA, WA 98402
 (253) 258-7334

STRUCTURAL MEYER BOROBIAN JOHNSON
 141 LABELLE STREET, SUITE 2000
 CHICAGO, IL 60611
 (312) 831-4100

VEP NICHOLE GREENBERG
 308 B RIVERSIDE PLAZA, SUITE 201
 CHICAGO, IL 60608
 (312) 930-2041

JEFFERSON COUNTY EARLY
 LEARNING CENTER
 PORT TOWNSEND, WA 98368

NO. #	DESCRIPTION	DATE
	ARCHITECT'S PROJECT NO.	2217



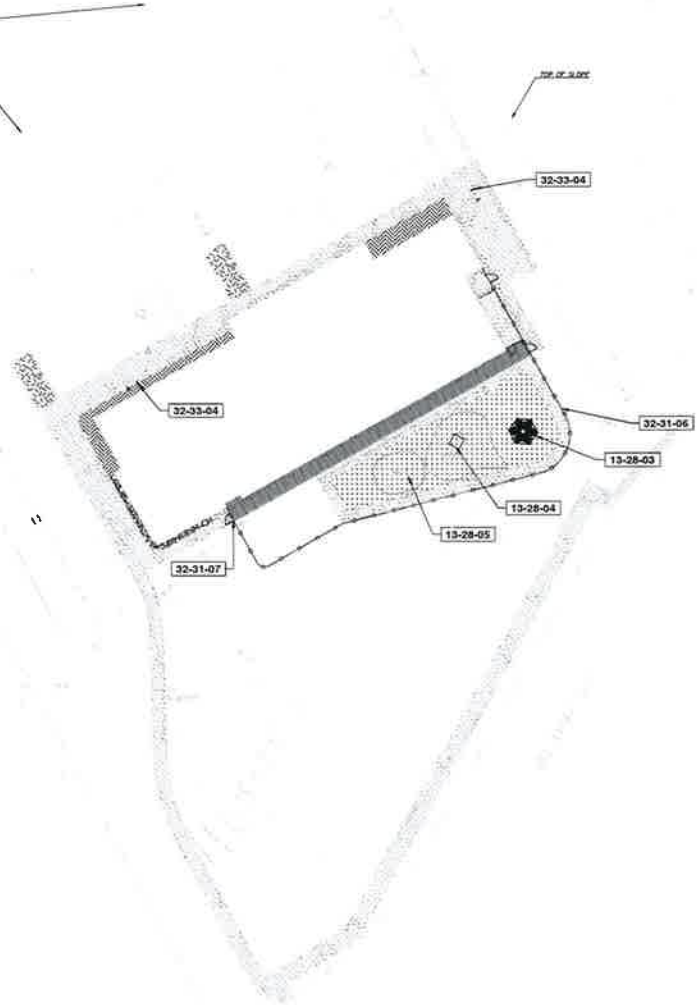
01/29/2024

MATERIALS
SCHEDULE

L1-00

UNDERGROUND UTILITY NOTE
 UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCE, OR CONFLICTS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL, THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON1.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

EXISTING BUILDING TO REMAIN AND PROJECT



REFERENCE NOTES SCHEDULE

SYMBOL	Altimatic & Recreational Special Construction DESCRIPTION	QTY
13-28-03	PLAY STRUCTURE - SELECTION AND LOCATIONS TO BE DETERMINED BY VENDOR	1
13-28-04	PLACE STRUCTURE - SELECTION AND LOCATIONS TO BE DETERMINED BY VENDOR	1
13-28-05	PLAY STRUCTURE - SELECTION AND LOCATIONS TO BE DETERMINED BY VENDOR	1
Fences & Gates DESCRIPTION		
33-31-06	FENCE - REFER TO A100 FOR SELECTION	228 #
33-31-07	GATE - REFER TO A100 FOR SELECTION	4
Site Furnishings DESCRIPTION		
32-33-04	BICYCLE PARKING - PACIFIC OUTDOORS - STEEL - POWDER COAT BLACK	4
Wood Decking DESCRIPTION		
	DECKING - REFER TO A100 FOR SELECTION	684 sf
Altimatic & Recreational Special Construction DESCRIPTION		
	RESILIENT PLAY SURFACE - POWDER-IN-PLACE - REFER TO A100 FOR SELECTIONS	1,787 sf
Road Paving DESCRIPTION		
	PEDESTRIAN SURFACE - REFER TO CIVIL	3,774 sf
	PEDESTRIAN SURFACE - POLISHED CONCRETE - REFER TO CIVIL	504 sf
Aggregate Surfaces DESCRIPTION		
	VEHICULAR SURFACE - 5/8-INCH MINUS CRUSHED - 4-INCH DEPTH - AGGREGATE - LOCALLY SOURCED - COMPACT 90-PERCENT	4,554 sf
Planting Preparations DESCRIPTION		
	PLANTING FINISH - BARK MULCH - 3-INCH DEPTH	287 sf
	PLANTING FINISH - BLACK SLATE CHIP MULCH - 3-INCH DEPTH - COMMODITY BLACK SLATE 1-INCH AVAILABLE THROUGH THE HOME DEPOT - homedepot.com	104 sf

OWNER: JEFFERSON COUNTY EARLY LEARNING CENTER
 1170 N. LA SALLE STREET, SUITE 2010
 CHICAGO, IL 60610
 (312) 938-7947

ARCHITECT: PRESIDENT FUTURE ARCHITECTS
 1148 W. OHIO STREET, #602
 CHICAGO, IL 60610
 (312) 837-0120

DESIGNER: STUDIO ILL
 1624 LAWRENCE STREET
 PORT TOWNSEND, WA 98158
 (206) 860-8111

CIVIL: ATWELL LLC
 1148 BROADWAY SUITE 210
 TACOMA, WA 98402
 (252) 304-0100

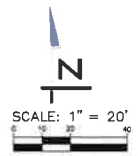
STRUCTURAL: MEYER BORMANN JOHNSON
 1170 LA SALLE STREET, SUITE 2010
 CHICAGO, IL 60610
 (832) 814-8289

MECHANICAL/ELECTRICAL: MOORE ENGINEERS
 3010 RIVERDALE PLAZA SUITE 204
 CHICAGO, IL 60608
 (312) 938-7947

JEFFERSON COUNTY EARLY LEARNING CENTER
 PORT TOWNSEND, WA 98368

REV #	DESCRIPTION	DATE
01	ISSUE FOR PERMIT	01/29/2024

ARCHITECT'S PROJECT NO. 2217



UNDERGROUND UTILITY NOTE

UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON911.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



01/29/2024
 MATERIALS PLAN

L1-01

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/TYPE/DESCRIPTION	QTY	PSI	UNIT		
●	Hunter PSU-06 10 Series Turf Spray, 6in. Pop-Up. Adjustable and Full Circle, Drain Check Valve.	19	30			
●	Hunter PSU-06 15 Series Turf Spray, 6in. Pop-Up. Adjustable and Full Circle, Drain Check Valve.	15	30			
●	Hunter PSU-06 17 Series Turf Spray, 6in. Pop-Up. Adjustable and Full Circle, Drain Check Valve.	9	30			
■	Hunter PRO-06 Strip Series Turf Spray, 6in. Pop-Up. Co-molded wiper seal with UV Resistant Material.	14	30			
SYMBOL	MANUFACTURER/MODEL/TYPE/DESCRIPTION	QTY	PSI	TEMP	WARRANTY	UNIT
1.5	Hunter POP-06 1.5 Turf Rotor, 6in. Pop-Up. Adjustable to Full Circle.	28	25	1.2	29"	
■	MANUFACTURER/MODEL/TYPE/DESCRIPTION	QTY	PSI	UNIT		
■	Netafim LVC210075-HFHP Pre-Assembled Control Zone Kit, with 1in. Series B0 Control Valve, 3/4in. Disc Filter, and High Flow Pressure Regulator 4.50PM to 17.60PM.	1				
■	Area to Receive Dripline Netafim IICV-06-12 Machine Pressure Compensating Landscape Dripline with Check Valve. 0.6 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 12mm.	389.2	11			
SYMBOL	MANUFACTURER/MODEL/TYPE/DESCRIPTION	QTY	PSI	UNIT		
●	Hunter ICV-G 1in., 1-1/2in., 2in. and 3in. Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	6				
■	Hunter HG-3RC Quick coupler valve, yellow rubber cover, red brass 1 and stainless steel, with 3/4in. NPT inlet, 1-piece body.	1				
■	Hunter IBV 1" 1in., 1-1/2in., 2in. and 3in. Brass Electric Master 1 Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	1				
○	Drain Valve	1				
BF	Feboa 825Y 1" Reduced Pressure Backflow Preventer	1				
C	Hunter DCC-0800-11 8 Station Outdoor Modular Controller, No Module Required, Commercial Use, Metal Cabinet.	1				
FC	Hunter FREEZE-CLK Freeze Sensor installs easily to shut system off to avoid dangerous, icy conditions. 5 year warranty.	1				
WS	Hunter MWS (2) Weather Station with rain sensor, wind sensor, 120 VAC, 5 amp, 5 year warranty.	1				
FL	Hunter W-40-FL-DW-R Wireless HC Flow Meter Kit, receiver only (domestic 500 MHz)	1				
M	Water Meter, 1"	1				
---	Irrigation Mainline: PVC Class 200 SDR 21	1,625	11			
---	Pipe Sleeve: PVC Schedule 40	504	7	11		
---	Pipe Sleeve: PVC Schedule 40	172	8	11		

Wave Detail
Wave Number
Wave Flow
Wave Size

VALVE SCHEDULE

NUMBER	MODEL	HAZ.	TYPE	GPM	WFR	PSI	PSI @ 100 GPM	PSI @ 150 GPM	PSI @ 200 GPM
C1	Netafim LVC210075-HFHP	1"	Area for Dripline	1.6	435.4	22.1	0.86	in/h	
C3	Hunter ICV-G	1"	Turf Spray	78.78	45.6	40.6	1.22	in/h	
C4	Hunter ICV-G	1"	Turf Rotor	14.4	103.7	29.6	0.32	in/h	
C5	Hunter ICV-G	1"	Turf Spray	16.9	148.9	37.7	1.53	in/h	
C6	Hunter ICV-G	1"	Turf Spray	8.24		35.6	1.44	in/h	
C7	Hunter ICV-G	1"	Turf Rotor	19.2	278.0	32.9	0.39	in/h	
C8	Hunter ICV-G Common Wire	1"	Turf Spray	15.85	336.0	33.8	1.67	in/h	

IRRIGATION NOTES:

- PRIOR TO COMMENCEMENT OF WORK CONTRACTOR TO VERIFY STATIC WATER PRESSURE AT POINT OF CONNECTION.
- PRIOR TO COMMENCEMENT OF WORK CONTRACTOR TO VERIFY THE AMOUNT OF WATER AVAILABLE AT POINT OF CONNECTION MEETS OR EXCEEDS PROJECT DEMANDS.
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR MARKING & PROTECTING ALL UTILITIES ENCOUNTERED THROUGHOUT THE SCOPE OF WORK.
- ALL PLANS ARE DIAGRAMMATIC & SCHEMATIC. ARCHITECT TO BE NOTIFIED IMMEDIATELY IF FIELD VARIANCES REQUIRING MODIFICATIONS TO PLAN SHALL BE REQUIRED.
- MAINLINE LAYOUT IS DIAGRAMMATIC AND HAS BEEN SHOWN OUTSIDE OF LANDSCAPE AREAS FOR PURPOSE OF CLARITY. ALL IRRIGATION PIPING AND COMPONENTS SHALL BE INSTALLED IN WITHIN PROJECT LANDSCAPED AREAS UNLESS SHOWN AS SLEEVED OR OTHERWISE NOTED ON PLAN.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY SLEEVING UNDER SIDEWALKS, ROADWAY OR ANY OTHER PROJECT PAVING OR HARDSCAPE FOR THE PROPER INSTALLATION OF THIS SYSTEM REGARDLESS OF PRESENCE ON PLAN. ARCHITECT TO BE NOTIFIED IMMEDIATELY IF ADDITIONAL SLEEVING IS REQUIRED.
- MAINLINE SLEEVES & WIRE CHASES TO HAVE CONTINUOUS DETECTABLE MARKING TAPE INSTALLED WITH PIPE AND/OR WIRE. ALL DRAIN SLEEVING TO BE MARKED WITH 1/2" X 3/4" STEEL REBAR PLACED AT EACH END OF SLEEVE & FLUSH TO SOIL GRADE LEVEL.
- SLEEVING TO EXTEND BEYOND PAVEMENT SUBGRADE MATERIALS & REMAIN COVERED UNTIL PIPE IS INSTALLED & LANDSCAPE AREA BACKFILLED.
- PIPING MAY BE INSTALLED IN COMMON TRENCHES - 3 PIPES MAXIMUM.
- SPRINKLER HEADS IN PLANTING AREAS SHALL BE A UNIFORM DISTANCE FROM HARDSCAPE EDGE - 4" MAXIMUM & TOP OF SPRINKLER BODY SHALL BE FLUSH WITH SOIL GRADE PRIOR TO ADDITION OF SEED, SOIL OR MULCH.
- CONTRACTOR IS RESPONSIBLE FOR ON-SITE ADJUSTMENTS TO SPRINKLER HEAD SPACING & NOZZLE CHOICE TO ENSURE COMPLETE COVERAGE & TO MINIMIZE OVERSPRAY. ADJUSTMENTS TO SPACING INCLUDE INSTALLING ADDITIONAL SPRINKLER HEADS IF NECESSARY.
- VERIFY CONTROLLER LOCATION WITH OWNER. VERIFY PROPER ELECTRICAL SERVICE IS PROVIDED PRIOR TO INSTALLATION OF ANY CONDUIT OR PEDESTAL BASE. ANY PENETRATIONS OF BUILDING WALLS OR SURFACES MUST BE APPROVED BY GENERAL CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR WINTERIZATION OF IRRIGATION SYSTEM WITH COMPRESSED AIR APPLIED AT THE WINTERIZATION VALVE. REFER TO PROJECT SPECIFICATIONS FOR MORE INFORMATION.
- THE LOCATION OR ANY PROJECT SPECIFIC SENSORS OR WEATHER STATIONS WILL BE COORDINATED WITH THE GENERAL CONTRACTOR & APPROVED BY LANDSCAPE ARCHITECT.
- NO SUBSTITUTIONS TO PLAN OR APPROVED MATERIALS IS ALLOWED WITHOUT APPROVAL OF LANDSCAPE ARCHITECT.
- ALL WORKMANSHIP WILL BE COMPLETE AND IN ACCORDANCE WITH THE LATEST ACCEPTED STANDARDS OF THE INDUSTRY.
- ALL WORK TO BE DONE IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION'S SPECIFICATIONS AND DESIGN STANDARDS.
- LEED WATER EFFICIENCY OUTDOOR WATER USE REDUCTION: PEAK WATERING MONTH (JULY) - AVERAGE MONTHLY REFERENCE ETa (4.68 INCH/MONTH) - LANDSCAPE WATER ALLOWANCE (LWA) (25.717 GALLONS/MONTH) = LANDSCAPE WATER BASELINE (110.688 GALLONS/MONTH) - LANDSCAPE WATER REQUIREMENT (LWR) (45,648 GALLONS/MONTH) = PERCENTAGE REDUCTION FROM BASELINE (38%).



OWNER BELLEPERE PENINSULA WOODS
871 BIRCHWAY SUITE 100
BELLEVUE WA 98003
(206) 844-9216

ARCHITECT PRESENT FUTURE ARCHITECTS
1415 PACIFIC STREET #604
CHICAGO, IL 60610
(312) 851-0330

DESIGNER STROUD JTL
134 LAWRENCE STREET
PORT TOWNSEND, WA 98159
(206) 848-8114

EIR ATWELL, LLC
114 BROADWAY, SUITE 210
TACOMA, WA 98402
(252) 551-1244

STRUCTURAL WEDER SCARBOROUGH JOHNSON
111 LAGALE STREET, SUITE 210
CHICAGO, IL 60612
(312) 811-4288

MEP MCGUIRE ENGINEERS
310 S RIVERSIDE PLAZA, SUITE 301
CHICAGO, IL 60606
(312) 924-2411

JEFFERSON COUNTY EARLY LEARNING CENTER
 PORT TOWNSEND, WA 98368

REV.	DESCRIPTION	DATE
1	ARCHITECT'S PROJECT NO.	2217



01/29/2024

IRRIGATION SCHEDULE & NOTES

L2-00

UNDERGROUND UTILITY NOTE
 UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCE, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL, THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

PLANT SCHEDULE

SYMBOL	QTY	SPECIES / COMMON NAME	ROOT COND.	SIZE	DEPTH
	17	<i>Acer campestre</i> 'Evelyn' / Queen Elizabeth™ Hedge Maple	B & B	2" Cal	
	#	<i>Ulmus x 'Homestead'</i> / Homestead Elm	B & B	2" Cal	
	10	<i>Berberis cordifolia</i> 'Red Beauty' / Red Beauty Heartleaf Berberis	1 Gal		
	17	<i>Imperata cylindrica</i> 'Red Baron' / Japanese Blood Grass	1 Gal	9" Ht	
	30	<i>Mahonia repens</i> / Creeping Mahonia	1 Gal	12" Ht	
SYMBOL	QTY	SPECIES / COMMON NAME	SIZE	W/SPRINK	DEPTH
	211 sf	<i>Aristostaphylos uva-ursi</i> / Kinnikinnick	4" Pot	18" O.C.	
	6,887 sf	<i>Festuca x 'Eco-Lawn'</i> / Eco-Lawn Fescue	Seed		
	13,112 sf	Wildflower Meadow Mix / Wildflower Meadow Mix	Seed		

GENERAL NOTES

- ALL LANDSCAPE INSTALLATION WILL COMPLY WITH STANDARD DETAILS AND SPECIFICATIONS.
- LANDSCAPE CONTRACTOR SHALL VERIFY LOCATION OF ALL SITE UTILITIES PRIOR TO LANDSCAPE IMPLEMENTATION. PLANT LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICT.
- LANDSCAPE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING SITE IMPROVEMENTS, FENCES, WALLS, AND UNDERGROUND UTILITIES. DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AND AT NO ADDITIONAL COST.
- PLANT COUNT IS FOR THE CONTRACTOR'S CONVENIENCE; IF THERE IS A DISCREPANCY, THE PLAN SHALL GOVERN. ACTUAL PLANT QUANTITIES TO BE DETERMINED BY REQUIRED PLANT SPACING.
- SUBSTITUTION OF PLANT VARIETIES DUE TO LACK OF AVAILABILITY SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT.
- DO NOT CUT LEADERS, PRUNE ALL DAMAGED OR DEAD WOOD AFTER PLANTING, STAKING, AND MULCHING. KEEP CROWN SHAPE TYPICAL OF SPECIES.
- REMOVE PLANTING LABELS AFTER FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT.
- FINISH GRADE OF MULCHED LANDSCAPE AREAS SHALL BE GRADED TO 1/2" MAX. BELOW CONCRETE OR OTHER PAVED SURFACES.
- ALL LANDSCAPE AREAS ARE TO BE MAINTAINED BY A LICENSED PROFESSIONAL LANDSCAPE MAINTENANCE COMPANY.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR MINIMUM FROM SUBSTANTIAL COMPLETION TO INCLUDE ONE FULL GROWING SEASON (THROUGH SEPT. 30).
- ALL AREAS LEFT UNPLANTED SHALL BE DRESSED WITH 3" DEPTH BARK MULCH.
- BARK MULCH SHALL BE MEDIUM BARK MULCH CONSISTING OF DOUGLAS FIR, PINE, OR HEMLOCK BARK. IT SHALL BE GROUND SO THAT ON A LOOSE VOLUME BASIS, A MINIMUM OF 95% PASSES A 2-INCH SIEVE AND NO MORE THAN 30 PERCENT PASSES A NO. 4 SIEVE. THE BARK MULCH SHALL NOT CONTAIN SALTS, RESIN, TANNIN, OR ANY OTHER DEleterIOUS MATERIAL IN QUANTITIES THAT WOULD BE DETRIMENTAL TO PLANT LIFE.
- ALL IMPROVED LANDSCAPE AREAS SHALL RECEIVE 12-INCH MIN. COMPACTED DEPTH (85% COMPACT) IMPORT TOPSOIL. FIRST TWO-INCH LIFT SHALL BE THOROUGHLY MIXED INTO EXISTING SUBSOIL TO A 4" MIN. DEPTH. FILL TO BE USED AS SUBSOIL IN RAISED PLANTERS SHALL BE CLEAN, WELL-DRAINED, NOT OVER-COMPACTED MATERIAL WITH NO DEleterIOUS MATERIAL POTENTIALLY HARMFUL TO PLANTS.
- IMPORT TOPSOIL FOR PLANTING BEDS SHALL CONSIST OF APPROX. 33-50% COMPOST AND 50-65% SAND OR SANDY LOAM AND MEET THE FOLLOWING SPECIFICATIONS:
 ORGANIC MATTER (DRY WEIGHT): 15-20%
 CONDUCTIVITY (MHMS/CM): <3
 pH: 6.0-7.5
 CEC: >10 meq/100g
 SOIL TEXTURE: SANDY LOAM
 WAG METALS: PASS
 IMPORTED TOPSOIL SHALL NOT INCLUDE SOILS DEFINED BY THE NATURAL RESOURCES CONSERVATION SERVICE WEB SURVEY AS PRIME FARMLAND, UNIQUE FARMLAND OR FARMLAND OF STATEWIDE OR LOCAL IMPORTANCE OR SOILS FROM OTHER GREENFIELD SITES UNLESS THE SOILS ARE A BYPRODUCT OF A CONSTRUCTION PROCESS
- WILDFLOWER MEADOW (PACIFIC NORTHWEST WILDFLOWER SEED MIX 800,769,030 plants@highcountrygardens.com) BY HIGH COUNTRY GARDENS SEED AT RATE OF 1-POUND PER 1,000 SF. SEED MIX INCLUDES: *Achillea millefolium* (White Yarrow), *Aquilegia vulgaris* (Blue Columbine), *Centaurium cyaneum* (Cyanus / Bachelor Buttons), *Oenanthe silaifolia* (Silphium Marsh-marigold), *Chrysanthemum maximum* (Sheets Daisy), *Clarkia amoena* (Cockle), *Ornithoglossum virginicum* (Crown-of-thorns), *Collinsia heterophylla* (Chinew. Hibiscus), *Coreopsis lanceolata* (Lance-leaf Coreopsis), *Coreopsis grandiflora* (Common Coreopsis), *Colymbium alpinum* (Ridgetop Lobelia), *Diarrhiza barbatula* (Sweet William), *Delphinium purpureum* (Purple), *Fuchsialoide californica* (Columbia Poppy), *Gelonicia angustata* (Whisker Flower), *Gelsemium elegans* (Bell's Belladonna), *Sisyrinchium umbellatum* (Campanula), *Linanthus grandiflorus* (Munition Flower), *Linum maritimum* (Blue Flax), *Linum grandiflorum rubrum* (Scarlet Flax), *Linum perenne lewisii* (Blue Flax), *Lebanon poppinum* (Sweet Alyssum), *Leptus succulentus* (Arrow Leaf), *Hemiphrasia monarda* (Baby Blue Eyes), *Shenostema simplicifolium* (Swamp Primrose), *Platanus minor* (Blue Poppy / Shiloh Poppy), *Rudbeckia hirta* (Black-eyed Susan), and *Silene aemula* (None-so-Fretty).
- LEED SS PROTECT OR RESTORE HABITAT: 4,631 SF UNDISTURBED VEGETATION ON-SITE. ALL IMPROVED LANDSCAPE AREAS ON SITE (20,390 SF) SHALL RECEIVE 12-INCH DEPTH IMPORTED TOPSOIL FOR INFILTRATION AND TO SUPPORT HEALTHY PLANT GROWTH. ALL PLANT MATERIALS ARE NATIVE OR ADAPTED FOR THE PACIFIC NORTHWEST.
- LEED SS OPEN SPACE: SITE AREA IS 34,040 SF - TOTAL OPEN SPACE IS 31,873 SF (93.6% PROVIDED OPEN SPACE) - ON-SITE LANDSCAPE OPEN SPACE IS 25,021 SF (73% LANDSCAPE OPEN SPACE) - 391 SF IS PLANTING AREAS WHICH INCLUDE TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUNDCOVERS (1.6%) - 6,887 SF IS ECO LAWN AREA WHICH INCLUDES DROUGHT TOLERANT ROUGH GRASS AND TWO SPECIES OF DECODIOUS TREE (27.5%) - 13,112 SF IS WILDFLOWER MEADOW WHICH INCLUDES SEEDCO WILDFLOWER MEADOW MIX WHICH INCLUDES 28 DIFFERENT WILDFLOWER SPECIES AND ONE TREE SPECIES (52.4%) - 4,631 SF IS UNDISTURBED EXISTING VEGETATION WHICH INCLUDE AT LEAST TWO TYPES OF VEGETATION (18.5%). 100% OF LANDSCAPE AREAS INCLUDE AT LEAST TWO TYPES OF VEGETATION.

UNDERGROUND UTILITY NOTE

UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

ATWELL

1125 UNIVERSITY AVENUE SUITE 200
 SEASIDE WA 98138
 (360) 884-8888

OWNER: ALTYRE PENINSULA TRIC
 115 NORTHEAST SUITE 200
 SEASIDE WA 98138
 (360) 884-8888

ARCHITECT: PRESENT FUTURE ARCHITECTS
 1150 6TH STREET #204
 CHICAGO IL 60612
 (312) 343-2222

DESIGNER: STRONG BTL
 1034 LAWRENCE STREET
 PORT TOWNSEND WA 98143
 (360) 884-8888

ENV: ATWELL LLC
 1144 BROADWAY SUITE 110
 TACOMA WA 98402
 (253) 463-8888

STRUCTURAL: WETTER BUILDING JOHNSON
 111 LAMARLE STREET SUITE 202
 CHICAGO IL 60602
 (312) 831-4800

MEP: WIGGINS ENGINEERS
 305 S RIVERSIDE PLAZA SUITE 110
 CHICAGO IL 60606
 (312) 843-8441

**JEFFERSON COUNTY EARLY
 LEARNING CENTER**

PORT TOWNSEND, WA 98368

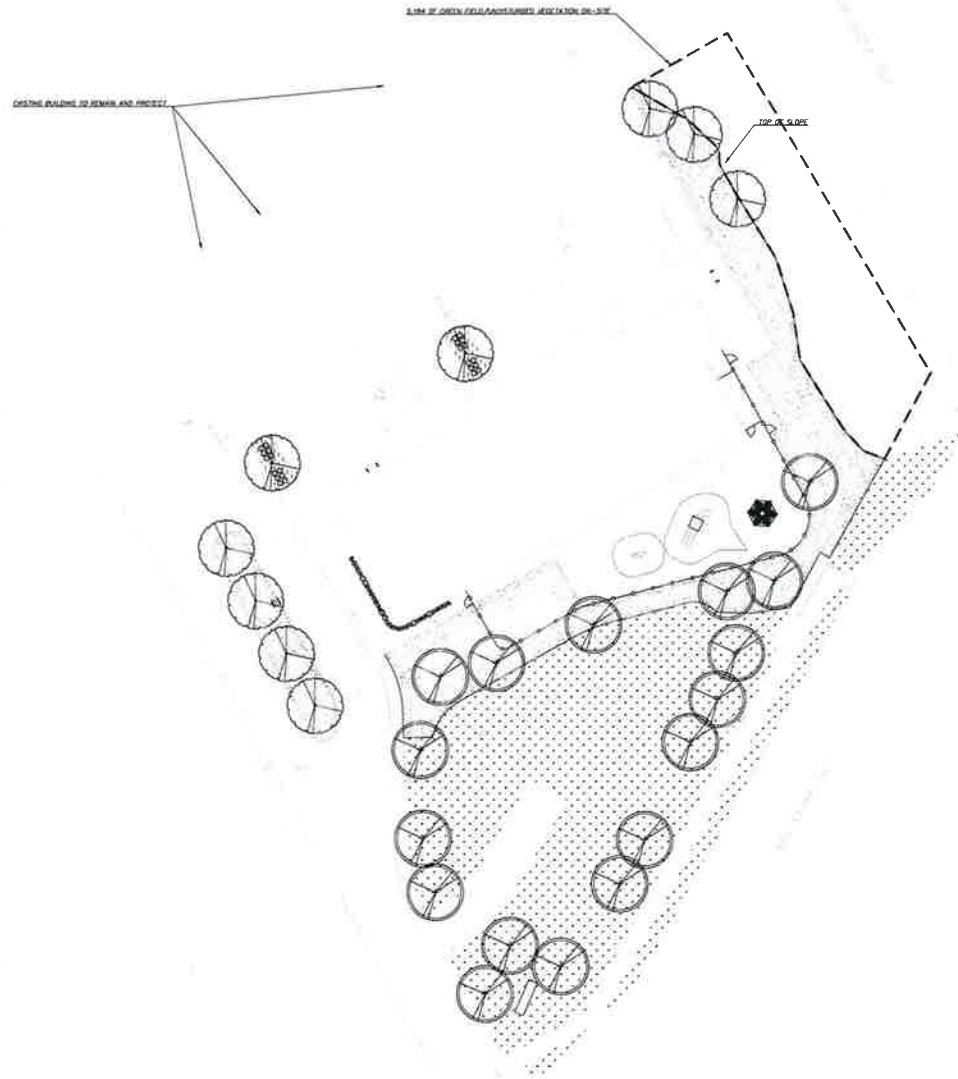
REV #	DESCRIPTION	DATE
ARCHITECT'S PROJECT NO.		2217



01/29/2024

**PLANTING
 SCHEDULE &
 NOTES**

L3-00



PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL / COMMON NAME
TREES		
	17	<i>Acer compestre</i> 'Evelyn' / Queen Elizabeth™ Hedge Maple
	9	<i>Ulmus</i> x 'Homestead' / Homestead Elm
SHRUBS		
	10	<i>Bergenia caraliola</i> 'Red Beauty' / Red Beauty Heartleaf Bergenia
	17	<i>Imperata cylindrica</i> 'Red Baron' / Japanese Blood Grass
	30	<i>Mahonia repens</i> / Creeping Mahonia
GROUND COVERS		
	211 sf	<i>Arctostaphylos uva-ursi</i> / Kinnikinnick
	6,987 sf	<i>Festuca</i> x 'Eco-Lawn' / Eco-Lawn Fescue
	13,112 sf	Wildflower Meadow Mix / Wildflower Meadow Mix

GENERAL NOTES

- ALL LANDSCAPE INSTALLATION WILL COMPLY WITH STANDARD DETAILS AND SPECIFICATIONS.
- LANDSCAPE CONTRACTOR SHALL VERIFY LOCATION OF ALL SITE UTILITIES PRIOR TO LANDSCAPE IMPLEMENTATION. PLANT LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICT.
- LANDSCAPE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING SITE IMPROVEMENTS, PAVING, WALLS, AND UNDERGROUND UTILITIES. DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AND AT NO ADDITIONAL COST.
- PLANT COUNT IS FOR THE CONTRACTOR'S CONVENIENCE; IF THERE IS A DISCREPANCY, THE PLAN SHALL GOVERN. ACTUAL PLANT QUANTITIES TO BE DETERMINED BY REQUIRED PLANT SPACING.
- SUBSTITUTION OF PLANT VARIETIES DUE TO LACK OF AVAILABILITY SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT.
- DO NOT CUT LEADER, PRUNE ALL DAMAGED OR DEAD WOOD AFTER PLANTING, STAKING, AND MULCHING. KEEP CROWN SHAPE TYPICAL OF SPECIES.
- REMOVE PLANTING LABELS AFTER FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT.
- FINISH GRADE OF MULCHED LANDSCAPE AREAS SHALL BE GRADED TO 1/2" MAX. BELOW CONCRETE OR OTHER PAVED SURFACES.
- ALL LANDSCAPE AREAS ARE TO BE MAINTAINED BY A LICENSED PROFESSIONAL LANDSCAPE MAINTENANCE COMPANY.
- ALL PLANT MATERIALS SHALL BE GUARANTEED FOR ONE YEAR MINIMUM FROM SUBSTANTIAL COMPLETION TO INCLUDE ONE FULL GROWING SEASON (THROUGH SEPT. 30).
- ALL AREAS LEFT UNPLANTED SHALL BE DRESSED WITH 3" DEPTH BARK MULCH.
- BARK MULCH SHALL BE MEDIUM BARK MULCH CONSISTING OF DOUGLAS FIR, PINE, OR HEMLOCK BARK. IT SHALL BE GRIND SO THAT ON A LOOSE VOLUME BASIS, A MINIMUM OF 55% PASSES A 2-INCH SIEVE AND NO MORE THAN 30 PERCENT PASSES A NO. 4 SIEVE. THE BARK MULCH SHALL NOT CONTAIN SALTS, RESIN, TANNIN, OR ANY OTHER DELETERIOUS MATERIAL IN QUANTITIES THAT WOULD BE DETRIMENTAL TO PLANT LIFE.
- ALL IMPROVED LANDSCAPE AREAS SHALL RECEIVE 12-INCH MIN. COMPACTED DEPTH (85% COMPACT) IMPORT TOPSOIL. FIRST TWO-INCH LIFT SHALL BE THOROUGHLY MIXED INTO EXISTING SUBSOIL TO A 4" MIN. DEPTH. FILL TO BE USED AS SUBSOIL IN RAISED PLANTERS SHALL BE CLEAN, WELL-DRAINED, NOT OVER-COMPACTED MATERIAL WITH NO DELETERIOUS MATERIAL POTENTIALLY HARMFUL TO PLANTS.
- IMPORT TOPSOIL FOR PLANTING BEDS SHALL CONSIST OF APPROX. 13-50% COMPOST AND 50-65% SAND OR SANDY LOAM AND MEET THE FOLLOWING SPECIFICATIONS:
 ORGANIC MATTER (DRY WEIGHT): 15-20%
 CONDUCTIVITY (MUMS/CM): < 3
 pH: 6.0-7.5
 CEC: 3-10 meq/100g
 USDA TEXTURE: SANDY LOAM
 MAC METALS: PASS
 IMPORTED TOPSOIL SHALL NOT INCLUDE SOILS DEFINED BY THE NATURAL RESOURCES CONSERVATION SERVICE WEB SURVEY AS PRIME FARMLAND, UNDUPE FARMLAND OR FARMLAND OF STATEWIDE OR LOCAL IMPORTANCE OR SOILS FROM OTHER GREENFIELD SITES UNLESS THE SOILS ARE A BYPRODUCT OF A CONSTRUCTION PROCESS.
- WILDFLOWER MEADOW (PACIFIC NORTHWEST) MIXTURE SEEDS MAY BE: 800-788-0000 seedmix@bluewinnyard.com.
 BY HIGH COUNTRY GARDENS SEED AT RATE OF 1 LBS/1000 SQ. FT. SEED MIX INCLUDES: *Adiantum matricaria* (White Fern), *Aquilegia vulgaris* (RR Columbine), *Campanula cymosa* (Cowflower / Bocharer Button), *Cheranthus alpinus* (Shamrock Bellflower), *Chrysanthemum maximum* (Shasta Daisy), *Clarkia amoena* (Sagelet), *Clarkia virginiana* (Forsythia-to-Spring), *Colinus heterophyllus* (Chinese Houses), *Coreopsis lanceolata* (Lance-Leaf Coreopsis), *Coreopsis tinctoria* (Plain Coreopsis), *Delphinium ajacis* (Rocket Larkspur), *Dianthus barbatus* (Sweet William), *Digitalis purpurea* (Foxglove), *Echinacea pallidus* (Columbia Poppy), *Gelone arvensis* (Blueseed Flower), *Gypsophila elegans* (Baby's Breath), *Isenis umbellata* (Candytuft), *Limonium grandiflorum* (Mountain Phlox), *Lupinus maroccanus* (Baby Snapdragon), *Lupinus grandiflorum* (Sweet Pea), *Lupinus perennis* (Blue Fly), *Lobelia cardinalis* (Sweet Kitty), *Lupinus succulentus* (Lampy Lupine), *Nemophila menziesii* (Baby Blue Eyes), *Oenothera lamarckiana* (Evening Primrose), *Popover* (Red Flaxy / Shirley Poppy), *Rubusida hirs* (Black Eyed Susan), and *Silene aemula* (Wine-ye-Preety).
- LEED SS PROTECT OR RESTORE HABITAT: 4.631 SF UNDISTURBED VEGETATION ON-SITE. ALL IMPROVED LANDSCAPE AREAS ON SITE (282,893 SF) SHALL RECEIVE 12-INCH DEPTH IMPORTED TOPSOIL FOR INFILTRATION AND TO SUPPORT HEALTHY PLANT GROWTH. ALL PLANT MATERIALS ARE NATIVE OR ADAPTED FOR THE PACIFIC NORTHWEST.
- LEED SS OPEN SPACE: SITE AREA IS 54,040 SF - TOTAL OPEN SPACE IS 31,873 SF (59.0% PROVIDED OPEN SPACE) - ON-SITE LANDSCAPE OPEN SPACE IS 25,021 SF (46% LANDSCAPE OPEN SPACE). 191 SF IS PLANTING AREAS WHICH INCLUDE TREES, SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND GROUNDCOVERS (1,630 - 6,987 SF IS ECO LAWN AREA WHICH INCLUDES DROUGHT TOLERANT BOUTER GRASS AND TWO SPECIES OF COCCULUS TREE (27,549) - 13,112 SF IS WILDFLOWER MEADOW WHICH INCLUDES SEEDED WILDFLOWER MEADOW MIX WHICH INCLUDES 28 DIFFERENT WILDFLOWER SPECIES AND ONE TREE SPECIES (52,436) - 4,631 SF IS UNDISTURBED WHICH INCLUDES AT LEAST TWO TYPES OF VEGETATION (18.5%). 100% OF LANDSCAPE AREAS INCLUDE AT LEAST TWO TYPES OF VEGETATION.

ATWELL
 CENTRAL AND SOUTHERN
 1000 1st Ave S
 98001-1100
 360-471-0000

OWNER
 JEFFERSON COUNTY EARLY
 LEARNING CENTER
 1000 1st Ave S
 98001-1100

ARCHITECT
 PRESENT FUTURE ARCHITECTS
 1400 1st Ave S, Box 100
 Bellingham, WA 98225
 360-861-0000

ESTIMATOR
 STUDIO STL
 1000 1st Ave S, Box 100
 Bellingham, WA 98225
 360-861-0000

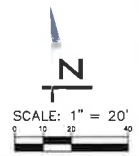
CONTRACTOR
 ATWELL LLC
 1000 1st Ave S, Box 100
 Bellingham, WA 98225
 360-861-0000

STRUCTURAL
 MEYER BORGMAN JOHNSON
 1700 1st Ave S, Box 100
 Bellingham, WA 98225
 360-861-0000

MECHANICAL/ELECTRICAL
 MEYER BORGMAN JOHNSON
 1700 1st Ave S, Box 100
 Bellingham, WA 98225
 360-861-0000

**JEFFERSON COUNTY EARLY
 LEARNING CENTER**

PORT TOWNSEND, WA 98368



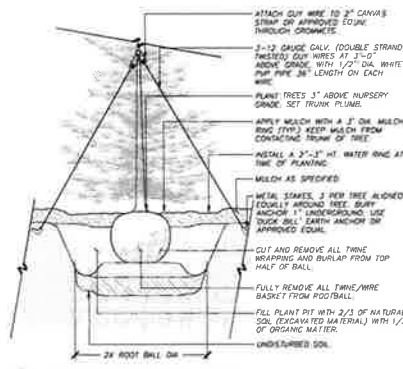
UNDERGROUND UTILITY NOTE
 UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSINGS, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON1.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



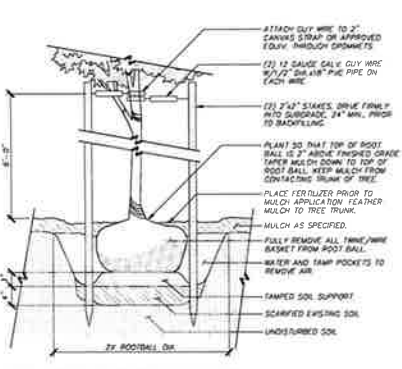
01/29/2024

PLANTING PLAN

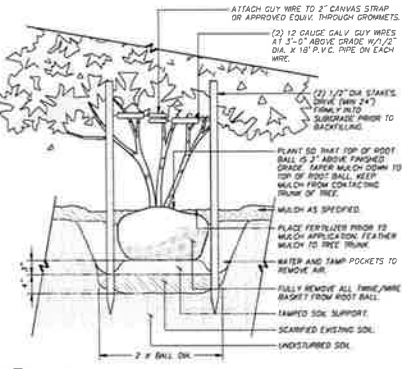
L3-01



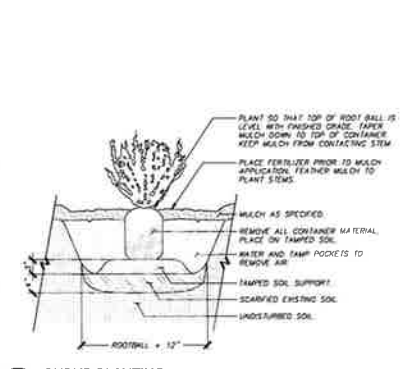
1 EVERGREEN TREE PLANTING
1" = 1'-0"



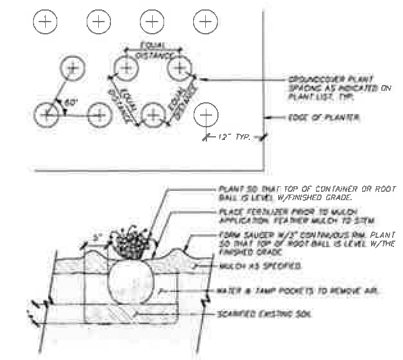
2 DECIDUOUS TREE PLANTING
1" = 1'-0"



3 MULTI STEM TREE PLANTING
1" = 1'-0"



4 SHRUB PLANTING
1" = 1'-0"



5 GROUND COVER PLANTING
1" = 1'-0"



COWNER
OLYMPIE PENINSULA YWCA
8750 N. 35TH ST. SE
SEGLAN WA 98131
(206) 835-0204

ARCHITECT
PROSOP FUTURE ARCHITECTS
118 W. 5TH STREET, 404
CHICAGO, IL 60601
(312) 531-0100

DESIGNER
STUDIO STL
104 LAWRENCE STREET,
PORT TOWNSEND WA 98368
(206) 866-8181

CON.
ATWELL LLC
1148 BROADWAY, SUITE 312
TACOMA WA 98402
(206) 798-7800

STRUCTURAL
MEYER ROBORIAN JOHNSON
1 N. LAUREL STREET, SUITE 2203
CHICAGO, IL 60602
(312) 531-4181

IRP
HUGHES ENGINEERS
301 S. RIVERVIEW PLAZA, SUITE 201
CHICAGO, IL 60606
(312) 330-2267

JEFFERSON COUNTY EARLY
LEARNING CENTER
PORT TOWNSEND, WA 98368

REV.	DESCRIPTION	DATE
1	ARCHITECT'S PROJECTING	2/17

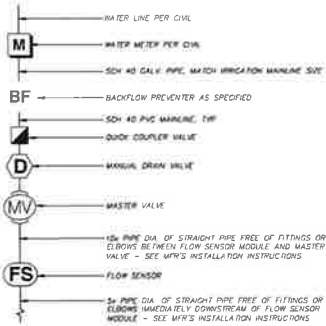


01/23/2024

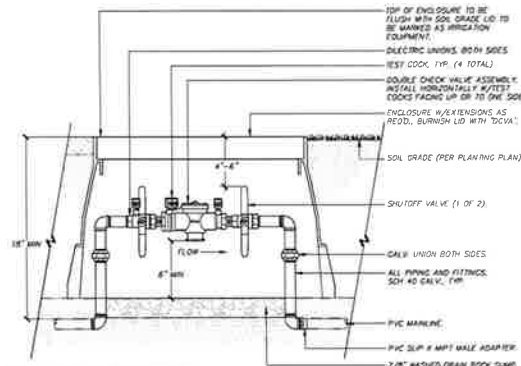
PLANTING
DETAILS

L4-01

UNDERGROUND UTILITY NOTE
UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL, THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON1.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

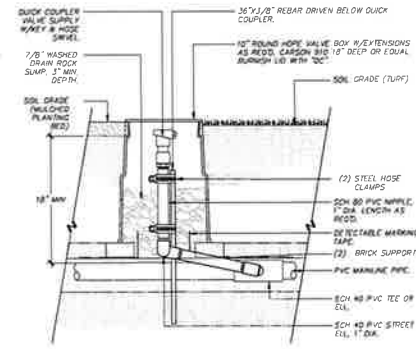


1 POC LAYOUT
1 1/2" = 1'-0"

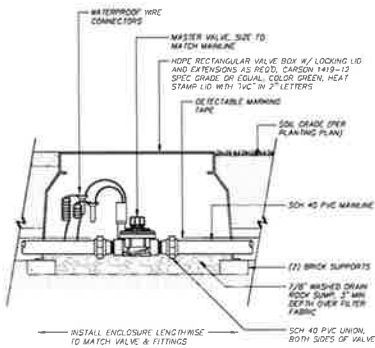


2 DOUBLE CHECK VALVE
1 1/2" = 1'-0"

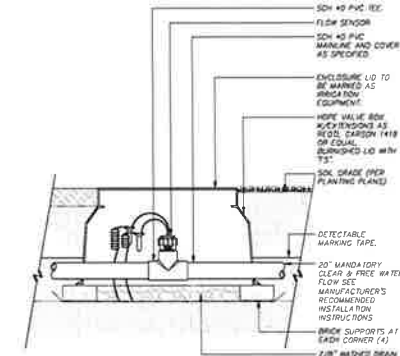
- NOTES:
- ENCLOSURE SHALL BE TWO STACKED METER BOXES OR ONE OVERSIZED METER BOX. METER BOX SHALL HAVE REMOVABLE RO-T-DOWN COVER. METER BOX AND LID SHALL BE PAIRED FOR ANTICIPATED LOAD CONDITIONS.
 - BOX SHALL BE SIZED TO PROVIDE 6" MIN. CLEARANCE BETWEEN SIDE WALLS AND UNIONS OR TEST COCKS IF FACING SIDEWAYS, AND 4" MIN./6" MAX. BETWEEN UNDERSIDE OF LID AND HIGHEST POINT OF CVLCE.
 - ENCLOSURE LOCATED IN SIDEWALK OR AREAS WITH VEHICULAR TRAFFIC SHALL BE METAL. OLYMPIC FOUNTAIN SAND METER BOX OR APPROVED EQUAL BOXES IN OTHER NON-TRAFFIC AREAS TO BE CARBON INDUSTRIES 1200 18" DEPTH HOLE METER BOX WITH 1200 SOLID FLUSH OR T-COVER, OR APPROVED EQUAL.
 - INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND MANUAL STANDARDS OF THE AMERICAN PLUMBING CODE (APC) AND WASHINGTON STATE DEPT. OF HEALTH (HSDOH) APPROVED INSTALLATION LIST.
 - TESTING TO BE PERFORMED BY HSDOH CERTIFIED BACKFLOW ASSEMBLY TESTER UPON INSTALLATION. MANUALLY INSERTED, AFTER ASSEMBLY IS REPAIRED OR MOVED, OR AFTER AN INCIDENT AT OWNER'S EXPENSE. THE SATISFACTORY TEST REPORT SHALL BE SUBMITTED TO THE AGENCY HAVING JURISDICTION PER HSDOH REQUIREMENTS.
 - DCVA IS TO BE OWNED, OPERATED, AND MAINTAINED BY PROPERTY OWNER.



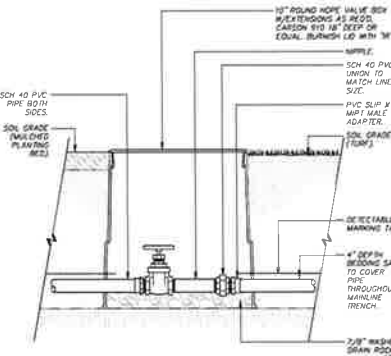
3 QUICK COUPLER VALVE
1 1/2" = 1'-0"



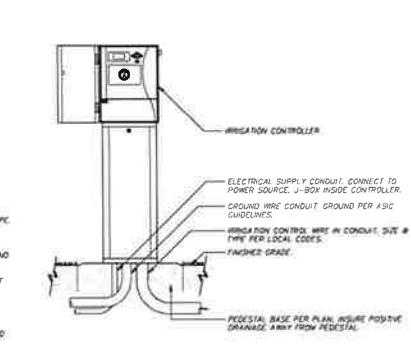
4 MASTER VALVE
1 1/2" = 1'-0"



5 FLOW SENSOR
1 1/2" = 1'-0"



6 MAINLINE ISOLATION VALVE
1 1/2" = 1'-0"



7 PEDESTAL MOUNT CONTROLLER
1" = 1'-0"

22100 15th Ave SW, Everett, WA 98201
 P.O. Box 2077, P.O. Box 100, Port Townsend, WA 98368
 (360) 203-1111

OWNER: JEFFERSON COUNTY AREA
 800 WESTHAY SUITE 3A
 STEWART WA 98148
 (360) 926-6788

ARCHITECT: PRESENT FUTURE ARCHITECTS
 102 W OAK STREET, 4024
 CHICAGO IL, 60641
 (312) 343-1330

DESIGNER: STUDIO STL
 1004 LAWRENCE STREET
 PORT TOWNSEND, WA 98368
 (360) 983-8144

DATE: ATWELL, L.L.
 1148 BROADWAY, SUITE 210
 TACOMA WA 98402
 (252) 754-7514

STRUCTURAL: MCKER NORBORN JOHNSON
 111 LAUREL STREET, SUITE 300
 CHICAGO IL, 60601
 (312) 931-4285

MEP: MCKEY ENGINEERS
 305 D PRUDHOM PLAZA, SUITE 300
 CHICAGO IL, 60604
 (312) 838-8247

**JEFFERSON COUNTY EARLY
 LEARNING CENTER**
 PORT TOWNSEND, WA 98368

REV #	DESCRIPTION	DATE
ARCHITECT'S PROJECT NO.		2217

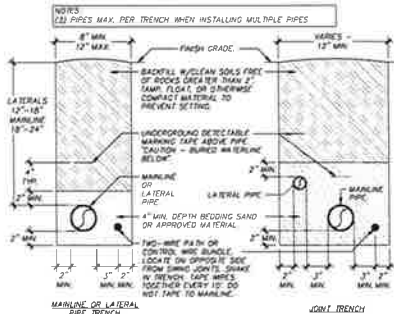


01/29/2024

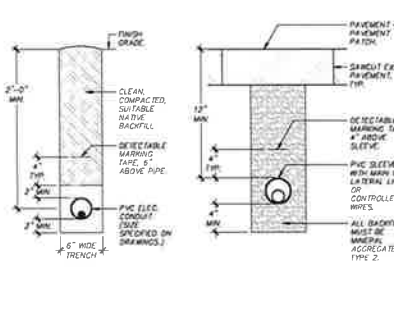
IRRIGATION DETAILS

L4-02

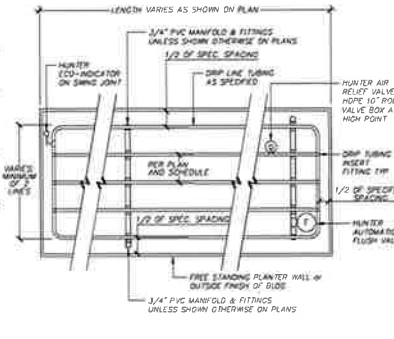
UNDERGROUND UTILITY NOTE
 UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL, THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.



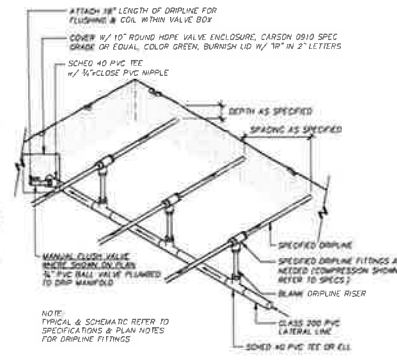
1 IRRIGATION TRENCHING AND BACKFILL
NOT TO SCALE



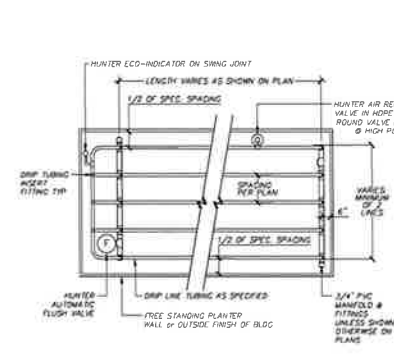
2 ELECTRICAL CONDUIT & SLEEVE TRENCHING
NOT TO SCALE



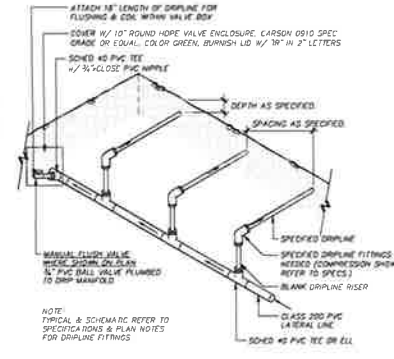
3 DRIPLINE LAYOUT: CENTER DISTRIBUTION
1/2" = 1'-0"



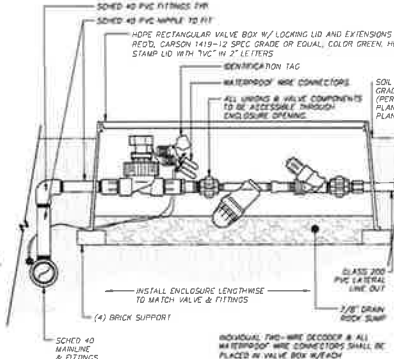
4 DRIP MANIFOLD: CENTER DISTRIBUTION
1/2" = 1'-0"



5 DRIPLINE LAYOUT: END DISTRIBUTION
1/2" = 1'-0"



6 DRIP MANIFOLD: END DISTRIBUTION
1/2" = 1'-0"



7 DRIP ZONE VALVE KIT
1/2" = 1'-0"

ATWELL
 13141 N. 14TH AVE. SUITE 104
 CHICAGO, IL 60642
 (773) 441-1000
 WWW.ATWELL.COM

OWNER: OLYMPIA PENINSULA TRICA
 8711 N. STATE ST. SUITE 1A
 SEULAM WA 98133
 (360) 544-0228

ARCHITECT: PMSBBY FUTURE ARCHITECTS
 11610 N. 20TH STREET, SUITE 104
 PORT TOWNSEND WA 98388
 (360) 846-1100

DESIGNER: STURDIE & ASSOCIATES
 1344 SPRUCE STREET
 PORT TOWNSEND WA 98388
 (360) 846-1100

ENR: ATWELL, LLC
 114 BROADWAY, SUITE 110
 TACOMA WA 98402
 (253) 841-4400

STRUCTURAL: WETTER ROSSMAN JOHNSON
 111 MADISON STREET, SUITE 2100
 CHICAGO IL 60602
 (312) 851-4500

MEP: WOODRUM ENGINEERS
 200 S. BROADWAY PLAZA, SUITE 300
 CHICAGO IL 60606
 (312) 939-2941

JEFFERSON COUNTY EARLY LEARNING CENTER
 PORT TOWNSEND, WA 98368

NO.	DESCRIPTION	DATE
ARCHITECT'S PROJECT NO.		2217



01/29/2024

IRRIGATION DETAILS

L4-03

UNDERGROUND UTILITY NOTE
 UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

SE-5585 BY PACIFIC OUTDOORS,
OR APPROVED EQUAL



DESCRIPTION
CONTINUOUS LOOP BIKE RACK, FABRICATED OUT OF 1-3/8" HEAVY DUTY STEEL TUBING. AVAILABLE IN STANDARD 3-13 BIKE CAPACITY, OR CAN BE MADE TO CUSTOM LENGTH. AVAILABLE GALVANIZED OR POWDER COATED IN A WIDE RANGE OF COLORS. IN-GROUND OR SURFACE MOUNT INSTALLATION.

1 BIKE RACK

10/20/2024



ATWELL

1001 N. 1ST AVE., SUITE 400
PORT TOWNSEND, WA 98368
P: 253.382.1111 F: 253.382.1112
WWW.ATWELLWA.COM

OWNER	OLYMPIC PENINSULA YMCA 875 16TH AVE, SUITE 3A SEALAH, WA 98281 (360) 344-0239
ARCHITECT	PREEDBY PUTINE ARCHITECTS 1101 W. ONE STREET #604 CHICAGO, IL 60602 (312) 981-1202
DESIGNER	STORIS STL 1044 LAWRENCE STREET PORT TOWNSEND, WA 98368 (253) 382-8111
CON.	ATWELL, LLC 1148 BROADWAY, SUITE 210 TACOMA, WA 98402 (253) 783-7738
STRUCTURAL	NEVER NERDNER JOHNSON 171 LAGALLE STREET, SUITE 220 CHICAGO, IL 60607 (312) 631-4388
MEP	MCCLURE ENGINEERS 201 S. RIVERSIDE PLAZA, SUITE 201 CHICAGO, IL 60604 (312) 938-2947

JEFFERSON COUNTY EARLY
LEARNING CENTER
PORT TOWNSEND, WA 98368

REV #	DESCRIPTION	DATE
1	PROJECT PROJECT NO.	2217



07/29/2024

DETAILS

L4-04

UNDERGROUND UTILITY NOTE
UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSINGS, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL, THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

SITE PLAN GENERAL NOTES

- 1. SEE CIVIL DWGS FOR ADD'L INFO
- 2. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AT ALL EXTERIOR FACADE LOCATIONS
- 3. VERIFY EXISTING CONDITIONS IN FIELD
- 4. SEE A101A FOR FENCE TYPES
- 5. SEE A101M FOR GATE INFORMATION

SITE PLAN LEGEND

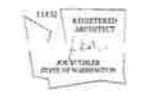
ASPHALT (PAVING)	GRASS	RUBBERIZED PLAY SURFACE (6 COLORS)	STONE
CONCRETE	COLOR PIGMENTED CONCRETE	DETENTION POND	NOT IN CONTRACT
COMPOSITE DECKING OVER INCREASED CONCRETE SLAB (TIMBERTECH ADVANCED PVC VINTAGE COLLECTION)			

OWNER	OLYMPIC PENNSYLVANIA 875 N 3TH AVE, SUITE 3A EGLON, WA 9326
ARCHITECT	PRESENT FUTURE ARCHITECTS 141 W 21ST STREET, #202 CHICAGO, IL 60604 (312) 961-0222
DESIGNER	STUBBS & CO. 104 LAWRENCE STREET PORT TOWNSEND, WA 98368 (360) 948-4914
CIVIL	ATWELL, LLC 1148 BROADWAY, SUITE 210 TACOMA, WA 98402 (425) 252-7234
STRUCTURAL	JAMES BROWN JOHNSTON 1 N LASKIE STREET, SUITE 200 CHICAGO, IL 60608 (312) 831-4288
MEP	MCQUINN ENGINEERS 305 S WINDSOR PLAZA, SUITE 300 CHICAGO, IL 60606 (312) 963-2247

JEFFERSON COUNTY EARLY LEARNING CENTER

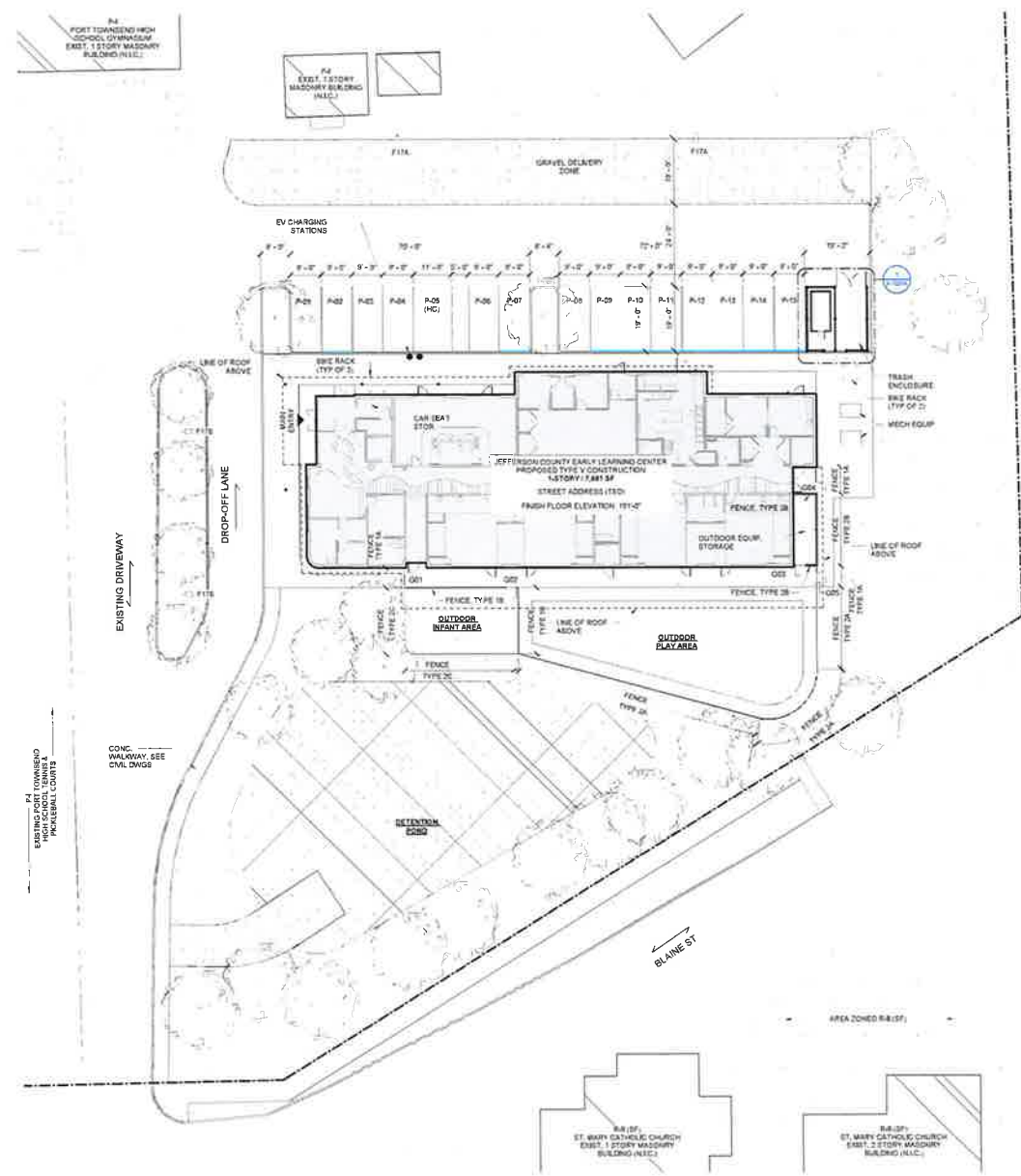
STREET,
PORT TOWNSEND, WA 98368

3	PERMIT	2025-02-28
2	DESIGN DEVELOPMENT	2024-10-30
1	SCHEMATIC DESIGN	2023-08-15
REV #	DESCRIPTION	DATE
ARCHITECT'S PROJECT NO.		2217



SITE PLAN

A100



SITE PLAN

TOPOGRAPHIC MAP
A PORTION OF PORT TOWNSEND HIGH SCHOOL
A.P.N. 001-023-00
CITY OF PORT TOWNSEND
JEFFERSON COUNTY, WASHINGTON
PREPARED FOR
STUDIO STL

PROCEDURES:
 THIS SURVEY IS BASED ON A GROUND SURVEY UTILIZING CONVENTIONAL TRAVERSE, BE TRIED WITH COLLIMATED THAT MEET OR EXCEED THE STANDARDS CONTAINED IN WAC 332-100-090

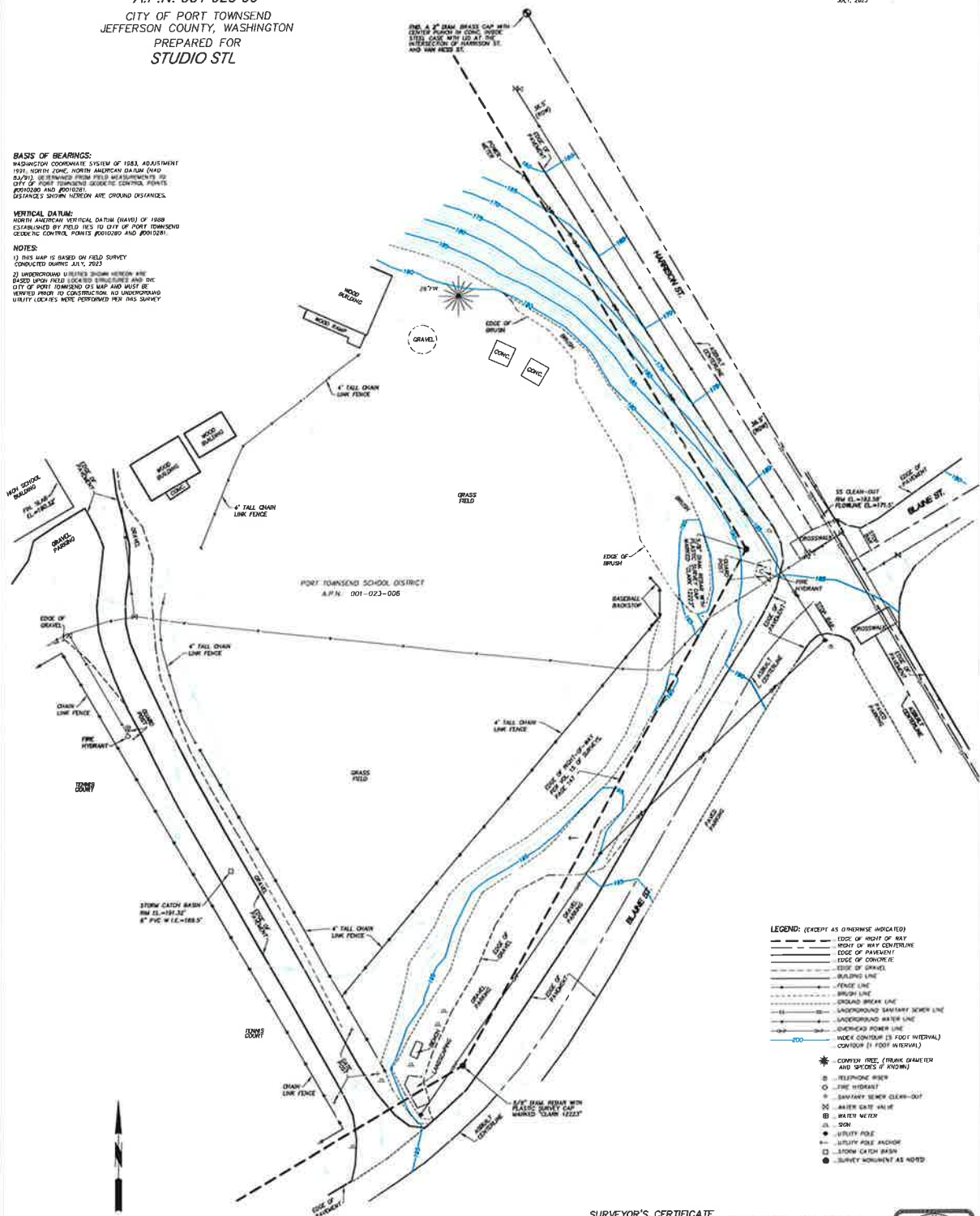
EQUIPMENT:
 TRIMBLE 5612 P ROBOTIC TOTAL STATION
 TRIMBLE 1502 DATA COLLECTOR

DATE OF FIELD SURVEY:
 JULY, 2023

BASIS OF BEARINGS:
 WASHINGTON COORDINATE SYSTEM OF 1983, ADJUSTMENT 1978, NORTH ZONE, NORTH AMERICAN DATUM (NAD 83/78). USE BEARINGS FROM FIELD MEASUREMENTS, SEE CITY OF PORT TOWNSEND GEODESIC CONTROL POINTS #P01000 AND #P01001. DISTANCES SHOWN HEREON ARE GROUND DISTANCES.

VERTICAL DATUM:
 NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 ESTABLISHED BY FIELD TIES TO CITY OF PORT TOWNSEND GEODESIC CONTROL POINTS #P01000 AND #P01001.

NOTES:
 1) THIS MAP IS BASED ON FIELD SURVEY CONDUCTED DURING JULY, 2023.
 2) UNDERGROUND UTILITIES SHOWN HEREON ARE BASED UPON FIELD LOCATED STRUCTURES AND THE CITY OF PORT TOWNSEND GIS DATA AND HAVE NOT BEEN VERIFIED PRIOR TO CONSTRUCTION. NO UNDERGROUND UTILITY LOCATIONS WERE DETERMINED FOR THIS SURVEY.

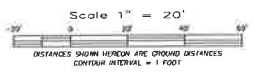


- LEGEND: (EXCEPT AS OTHERWISE INDICATED)**
- EDGE OF RIGHT OF WAY
 - FRONT OF CURVE CENTERLINE
 - EDGE OF PAVEMENT
 - EDGE OF CONCRETE
 - EDGE OF DRIVEWAY
 - BUILDING LINE
 - FENCE LINE
 - BRUSH LINE
 - ROAD BREAK LINE
 - UNDERGROUND SANITARY SEWER LINE
 - UNDERGROUND WATER LINE
 - OVERHEAD POWER LINE
 - INDEX CONTOUR (5 FOOT INTERVAL)
 - CONTOUR (1 FOOT INTERVAL)
- * CONCRETE PILE (PILING DIAMETER AND SPACES IF KNOWN)
 - TELEPHONE MARK
 - FIRE HYDRANT
 - SANITARY SEWER CLEAN-OUT
 - WATER GATE VALVE
 - WATER METER
 - SIGN
 - UTILITY POLE
 - UTILITY POLE ANCHOR
 - STORM CATCH BASIN
 - SURVEY MONUMENT AS NOTED

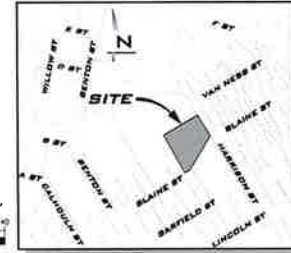
SURVEYOR'S CERTIFICATE
 I HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF WASHINGTON AND DECLARE THAT THIS MAP CORRECTLY REPRESENTS A TOPOGRAPHIC SURVEY PERFORMED IN JULY, 2023 UNDER MY SUPERVISION AND MEETS OR EXCEEDS INDUSTRY STANDARDS FOR TOPOGRAPHIC SURVEYS OF ITS CLASS, PERFORMED AT THE REQUEST OF THE PORT TOWNSEND SCHOOL DISTRICT IN JULY, 2023.



BRIAN L. VAN ALLER 7/27/23
 BRIAN L. VAN ALLER LS 35386 DATE



PROJECT	VAN ALLER SURVEYING	TITLE:	TOPOGRAPHIC MAP A PORTION OF P.T. HIGH SCHOOL A.P.N. 001-023-00	REVISIONS DATE MARK NOTE
		CLIENT:	STUDIO STL 1005 LAWRENCE ST. PORT TOWNSEND, WA 98368	
P.O. BOX 757 - CARLSBORG, WA - 98324 PHONE: (360) 683-3438 • FAX: (360) 683-3241				



VICINITY MAP
SCALE: 1"=20'

BASIS OF BEARINGS

WASHINGTON COORDINATE SYSTEM OF 1983, ADJUSTMENT 1991.
NORTH-SOUTH NORTH AMERICAN DATUM (NAD 83) DETERMINED FROM FIELD MEASUREMENTS TO CITY OF PORT TOWNSEND DEGREES CONTROL POINTS #001070 AND #001081. DISTANCES SHOWN HEREON ARE GROUND DISTANCES.

VERTICAL DATUM

NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988 ESTABLISHED BY FIELD TIES TO CITY OF PORT TOWNSEND DEGREES CONTROL POINTS #001070 AND #001081.

SURVEY NOTES

- 1) THIS MAP IS BASED ON FIELD SURVEY CONDUCTED DURING JULY, 2024.
- 2) UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON FIELD LOCATED STRUCTURES AND THE CITY OF PORT TOWNSEND GIS MAP AND MUST BE VERIFIED PRIOR TO CONSTRUCTION. NO UNDERGROUND UTILITY LOCATES WERE PERFORMED FOR THIS SURVEY.

PROJECT TEAM

ARCHITECT	CIVIL ENGINEER
ATWELL PRESENT FUTURE ARCHITECTS 1747 W OREGON STREET, #204 CHICAGO, IL 60617 CONTACT: BOB	ATWELL 20 CENTRAL WAY, SUITE 400 WAPATAWA, WA 98152 CONTACT: BRADY BERRY, PE
OWNER	SURVEYOR
OLYMPIA PENINSULA HUCA 824 N 5TH AVE, SUITE 2A SEQUIM WA 98242 CONTACT: BOB CONTACT: BOB	VAN ALLER SURVEYING P.O. BOX 757 CARLSBORO, WA 98324 CONTACT: BRIAN VAN ALLER, PLS

SITE DATA

DTL ADDRESS: 1500 VAN NESS ST, PORT TOWNSEND, WASHINGTON 98148
TAX ACCOUNT NO. 00000008
ZONING: P-3 - PUBLIC INFRASTRUCTURE (DTL)
CHILD DAY CARE CENTERS ARE AN ALLOWED USE WITHIN THE P-3 ZONING.
ZONING AGENCY: CITY OF PORT TOWNSEND PLANNING AND COMMUNITY DEVELOPMENT
200 MARSON STREET
PORT TOWNSEND, WA 98148
(360) 376-5096
THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE GOVERNING JURISDICTION INDICATES THAT STRUCTURES ON THIS PROPERTY COMPLIED WITH MINIMUM SETBACK AND HEIGHT REQUIREMENTS FOLLOWING CONSTRUCTION.

SHEET INDEX

- 1 CV-01 COVER SHEET
- 2 GN-01 GENERAL NOTES
- 3 EC-01 EXISTING CONDITIONS
- 4 TP-01 TESC & DEMO PLAN
- 5 TP-02 TESC PHASE 2 PLAN
- 6 TD-01 TESC NOTES & DETAILS
- 7 HC-01 HORIZONTAL CONTROL PLAN
- 8 GP-01 GRADING PLAN
- 9 UP-01 UTILITY PLAN
- 10 RP-01 ROAD PROFILES
- 11 RD-01 DETAILS
- 12 RD-02 DETAILS
- 13 WA-01 DETAILS
- 14 DT-01 DETAILS
- 15 DT-02 DETAILS

EXISTING UTILITY NOTE

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SCALE: AS NOTED
PROJECT MANAGER: JIMBERLY MCNABE, PE
PROJECT ENGINEER: BRADY BERRY, PE
DESIGNER: MARIA MORA-MOYA
ISSUE DATE: 02/26/2024

NO.	DATE	BY	REVISIONS

COVER SHEET
JC/ELC
CIVIL PLANS
02/26/2024
CITY OF PORT TOWNSEND WASHINGTON

JOB NUMBER: 23-157
SHEET NAME: CV-01
SHT 1 OF 15

2/26/24 10:24 AM - 11:20 AM - Issue Authority
C:\Users\jmcnabe\OneDrive\Documents\23-157\Drawings\Civil\23-157-CV-01.dwg
© 2024 ATWELL, INC.

GENERAL CONDITIONS

- 1. THE FOLLOWING GENERAL CONDITIONS AND THOSE CONTAINED IN THE SPECIFIC CHAPTERS DESCRIBED WITH THESE STANDARD SPECIFICATIONS... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL... 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL... 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL...

LEGAL NOTES

- 1. ALL LABOR MATERIALS WORKMANSHIP AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM... 2. THIS PLAN IS NOT VALID UNLESS IT BEARS THE SIGNATURE AND SEAL OF THE LICENSED PROFESSIONAL IDENTIFIED IN THIS PLAN... 3. THIS PLAN WAS PREPARED FOR THE EXCLUSIVE USE OF THE PERSON, PERSONS, OR ENTITY NAMED THEREIN... 4. THE LICENSED PROFESSIONAL SHALL NOT BE HELD LIABLE FOR ANY THIRD PARTY'S USE OF OR INTERPRETATION OF THE DRAWINGS... 5. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS... 6. CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR... 7. THE CONTRACTOR SHALL MAKE SURE RESPONSIBILITY FOR THE CONSTRUCTION MEANS METHODS AND TECHNIQUES OF EXECUTING ITS WORK... 8. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY CONTRACTOR'S ACTS OF OMISSIONS AND SHALL MAKE REPAIRS AS NECESSARY... 9. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE CONSTRUCTION... 10. THE EXISTING UTILITIES SHOWN ON THE PLANS HAVE BEEN LOCATED BASED ON THE INFORMATION AVAILABLE AND ARE SHOWN FOR THE CONVICTION OF THE CONTRACTOR...

WATER GENERAL NOTES

- 1. GENERAL REQUIREMENTS: WATER SYSTEMS MUST BE DESIGNED TO TRANSPORT, TREAT AND DISCHARGE WATER... 2. TREATMENT OF WATER SHALL COMPLY WITH WASHINGTON STATE DEPARTMENT OF HEALTH... 3. ANY EXTENSION OF THE PUBLIC TOWNSHIP WATER SYSTEM MUST BE APPROVED BY THE PUBLIC WORKS DEPARTMENT... 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL...

SEWER GENERAL NOTES

- 1. GENERAL REQUIREMENTS: SEWER SYSTEMS MUST BE DESIGNED TO TRANSPORT, TREAT AND DISCHARGE SEWAGE... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL...

STORM GENERAL NOTES

- 1. GENERAL: THE STANDARD ESTABLISHED BY THIS SPECIFICATION AND REFERRED TO HEREIN... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL... 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL...



SCALE: AS NOTED
PROJECT MANAGER: KIMBERLY MONAR, PE
PROJECT ENGINEER: BRADY BERRY, PE
DESIGNER: NADIA AROZAMBA
ISSUE DATE: 02/26/2024

Table with columns: NO, DATE, BY, REVIEWER

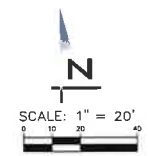
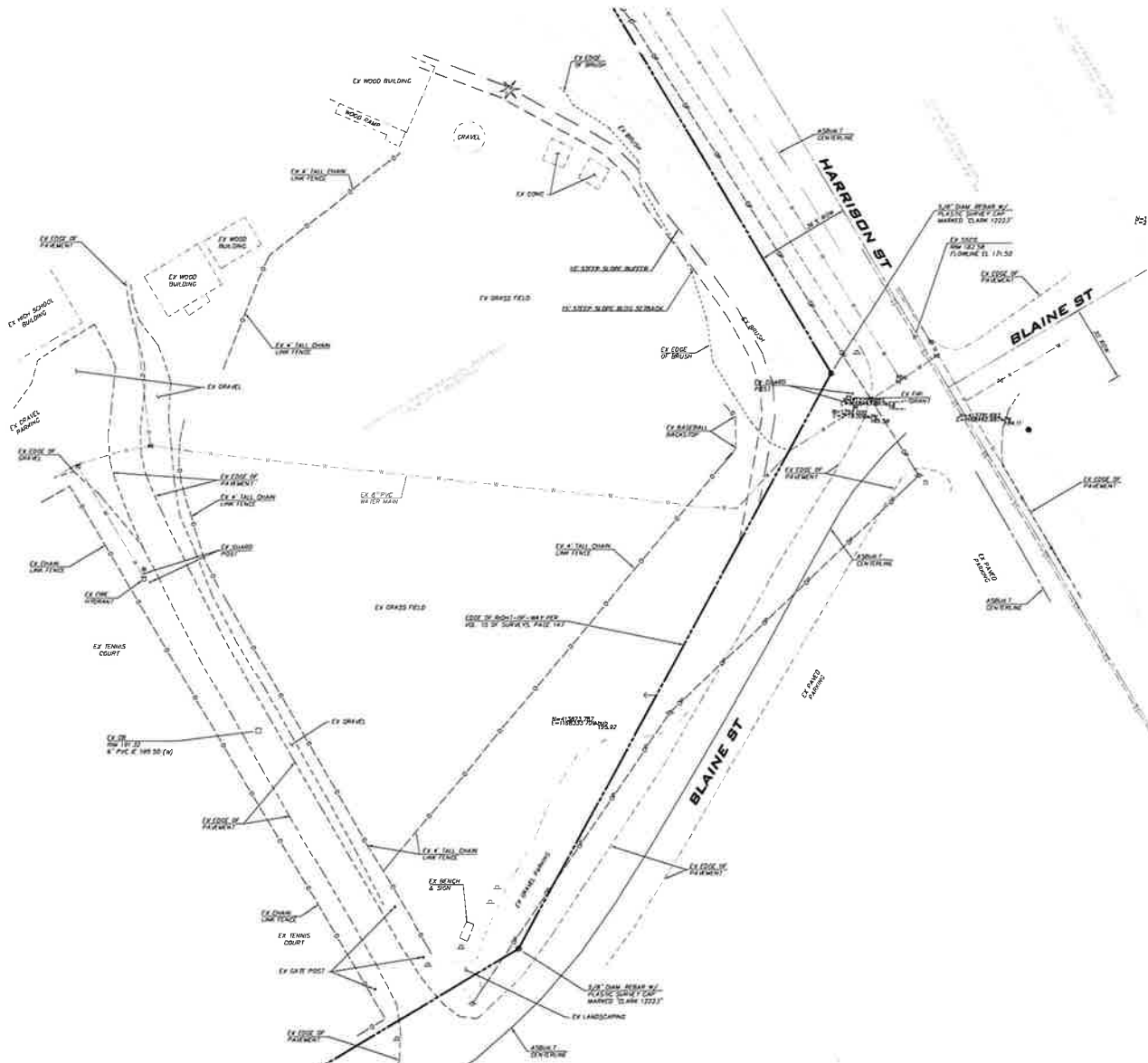
GENERAL NOTES
JCELC
CIVIL PLANS
02/26/2024



JOB NUMBER: 23-157
SHEET NAME: GN-01
BHT 2 OF 15

EXISTING UTILITY NOTE
EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES. TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF WASHINGTON (CITY) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

SEC 2, TWP 30N, RBE 1W, W.M.



- EXISTING FEATURES**
- | | |
|-------------------------------|-------------------------------|
| ADJACENT PLAT/PARCEL LINE | WATER MANHOLE |
| ADJACENT RIGHT-OF-WAY | AIR/VAC RELEASE VALVE |
| GENERAL LINE | BLOW OFF |
| EASEMENT | IRRIGATION METER |
| SURFACE FEATURES | IRRIGATION VALVE |
| BUILDING FOOTPRINT | WATER WELL |
| TOP OF AGE SLOPE | PODE BOX |
| STEEN SLOPE BUTTER | POWER P.O.C. |
| EDGE OF WETLAND | GUY ANCHOR |
| WETLAND BUTTER | STREET LIGHT |
| 10' CONTOURS | POLL LIGHT |
| SD - STORM DRAIN PIPE | POWER VAULT |
| SS - SEWER MAIN | TRANSFORMER |
| SSS - SANITARY SEWER SERVICE | POWER METER |
| TM - SEWER FORCE MAIN | JUNCTION BOX |
| WM - WATER MAIN | GAS METER |
| WP - AERIAL POWER LINE | GAS VALVE |
| WP - BURIED POWER LINE | FIBER OPTICS MANHOLE |
| WC - GAS MAIN | TV RIBST |
| WC - BURIED GAS | TELECOM VAULT |
| TM - BURIED TV | TELECOM RISER |
| QTV - AERIAL TV | TELECOM JUNCTION BOX |
| QTV - BURIED TELEPHONE LINE | TRAFFIC SIGNAL |
| DH1 - AERIAL TELEPHONE LINE | MAIL BOX |
| DH2 - BURIED TELEPHONE | SIGN |
| DH3 - AERIAL POWER/TELEPHONE | BOLLARD |
| DO - BURIED FIBER OPTIC CABLE | SOIL LOG TEST PIT |
| X - WIRE FENCE | CONFIDENTIAL TREE |
| CH - CHAIN LINK FENCE | CONFIDENTIAL TREE TO BE SAVED |
| DI - BOARD FENCE | CONFIDENTIAL TREE TO BE SAVED |
| OTEN OR SHALE | |
| RAILROAD | |
| GUARD RAIL | |
| RETAINING WALL | |
| ROCKERY | |
| GRASS BASIN TYPE 1 | |
| CATCH BASIN TYPE 2 | |
| SD PIPE FLOW | |
| FARD DRAIN | |
| STORM CLEANOUT | |
| STORM DRAIN STUB | |
| STORM CLEANOUT END | |
| SEWER MANHOLE | |
| SEWER CLEANOUT | |
| 28 PIPE FLOW | |
| SEWER STUB | |
| SEWER SIG | |
| FIRE HYDRANT | |
| WATER METER | |
| SALE VALVE | |

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ATWELL
 CONSULTING AND ENGINEERING
 1000 10TH AVENUE S.W.
 BURKE, WA 98148

SCALE: AS NOTED
 PROJECT MANAGER: AMBERLY WOODRIF, PE
 PROJECT ENGINEER: BRADY BENTY, PE
 DESIGNER: NASHA MCDONALD
 ISSUE DATE: 02/26/2024

NO.	DATE	BY	REVISIONS

EXISTING CONDITIONS
JCELC
CIVIL PLANS
 02/26/2024
 CITY OF PORT TOWNSEND WASHINGTON

CITY OF PORT TOWNSEND

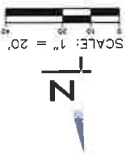
JOB NUMBER:
23-157
 "BEEBEE BAY"
EC-01
 BHT **3** OF 15



BEC 2, TWP 30N, RGE 1W, W.M.

EXISTING UTILITY NOTE
 EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED UTILITIES PRIOR TO CONSTRUCTION. ANY DISCREPANCIES OR INTERFERENCE SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF PORT TOWNSEND AT LEAST 48 HOURS BEFORE CONSTRUCTION.

- KEY NOTES**
- ① GRAVEL CONSTRUCTION ENTRANCE PER CITY DETAIL E01
 - ② FILTER FABRIC FABRIC PER CITY DETAIL E02
 - ③ FILTER FABRIC INLET PER CITY DETAIL E03
 - ④ SURFACE AND SEED AND MULCH WITH STRAW COVER
 - ⑤ PROTECT OR REPERCE AND REPAIR PER STATE AND LOCAL REQUIREMENTS



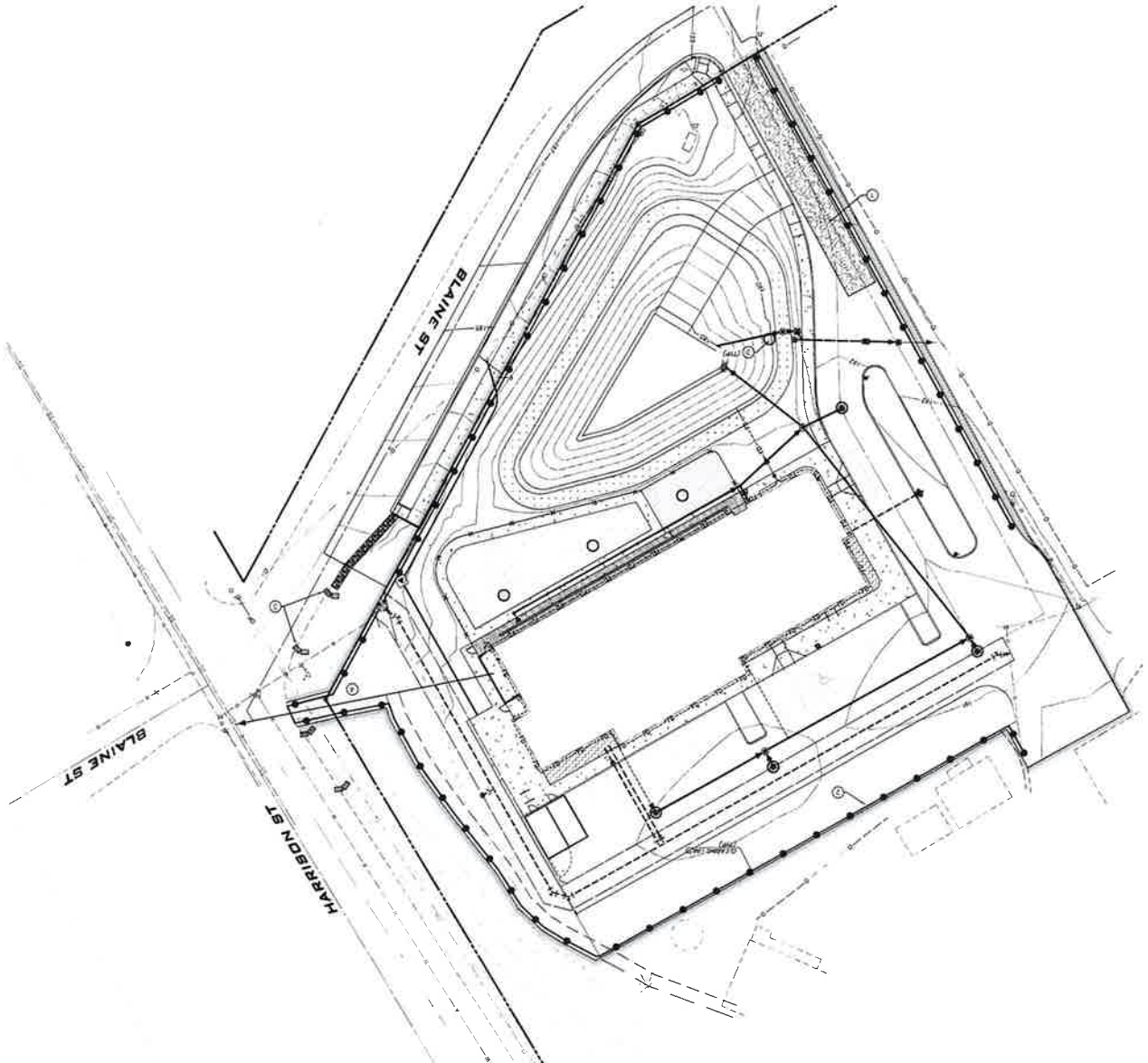
ATWELL

PROJECT MANAGER: [Name]
 PROJECT ENGINEER: [Name]
 DESIGNER: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

CITY OF PORT TOWNSEND

TEBC & DEMO PLAN
 JDELG CIVIL PLANS
 02/28/2024
 WASHINGTON

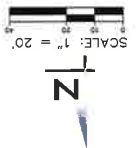
JOB NUMBER: 23-157
 SHEET: 4 OF 15
 TP-01





SEC 2, TWP 30N, RBE 1W, W.M.

EXISTING UTILITY NOTE
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- KEY NOTES**
1. CHANNEL CONSTRUCTION ENTRANCE PER CITY DETAIL. E.O.D. MAINTAIN UNTIL FINAL SUBMITTAL.
 2. FILTER FABRIC PER CITY DETAIL. E.C. 2. ADJUST AS NECESSARY TO ALLOW FOR COMPLETION OF THE WORK. INSTALL WOODS AS NECESSARY TO SUPPLEMENT FABRIC WHEN PROTECTING NEW SLOPES.
 3. FILTER FABRIC INLET BUILT PER CITY DETAIL. E.O. 3. PROTECT UNTIL FINAL SUBMITTAL. IN PLACE INSTALL BUILT FENCES AS NECESSARY TO PROTECT DRAINAGE FINAL SUBMITTAL.
 4. ON EEB SLOPES FOR UTILITY TRENCHING, PLACE LIME AND OVER ROUNDOFFED SURFACE AND SEED AND MULCH WITH STRAW COVER.
 5. INSTALL MAST BALES OR MATS AT EDGE OF PAVEMENT AT 25' O.C. TO PROVIDE EROSION PROTECTION UNTIL ALL WORK IS COMPLETE AND FINAL STABILIZATION ESTABLISHED.



	<p>TEGC PHASE 2 PLAN JCELC CIVIL PLANS 02/28/2024 WASHINGTON</p>	REV DATE BY	NO DATE BY
CITY OF PORT TOWNSEND			
23-157 SHEET NUMBER TP-02 SHEET NAME 5 OF 15			



ATWELL

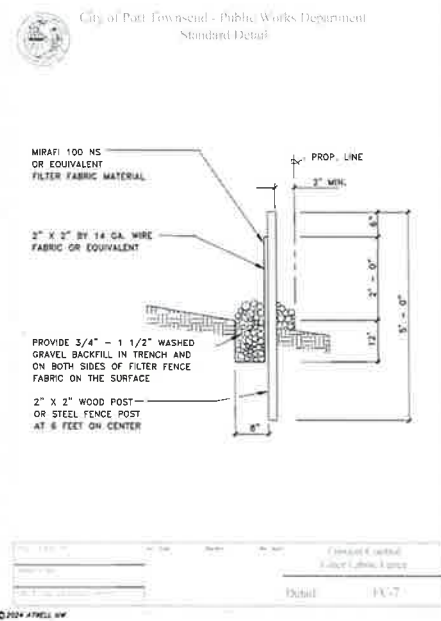
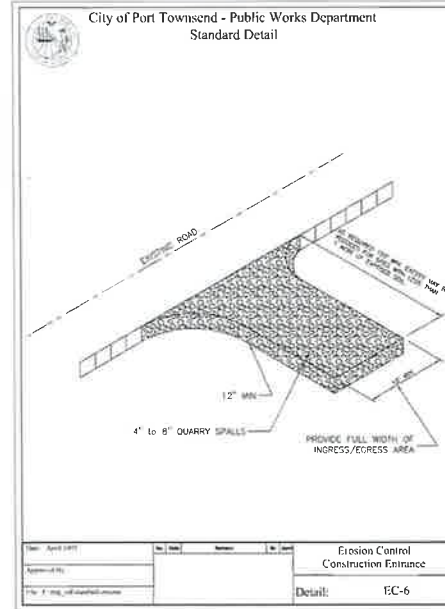
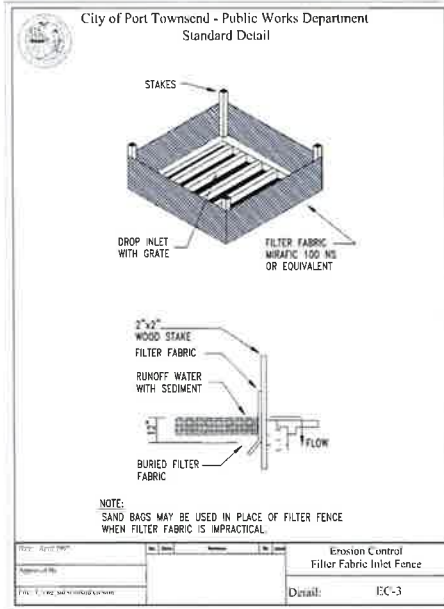
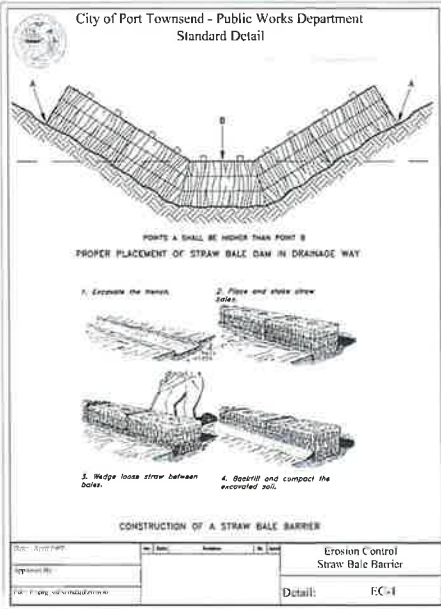
SCALE: 1" = 20'

PROJECT MANAGER: _____

DRAWN BY: _____

CHECKED BY: _____

DATE: 02/28/2024



ATWELL
 2211 17th Ave SW
 Seattle, WA 98149
 (206) 467-1200
 www.atwell.com

SCALE:
 AS SHOWN
 PROJECT MANAGER:
 KIMBERLY BONDAR, PE
 PROJECT ENGINEER:
 WENDY BONNY, PE
 DESIGNER:
 NADA ARJOUNI
 ISSUE DATE:
 02/28/2024

NO.	DATE	BY	REVISION

TESC NOTES & DETAILS
JCELC
 CIVIL PLANS
 02/28/2024
 WASHINGTON
 CITY OF PORT TOWNSEND



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JOB NUMBER:
23-157
 SHEET NAME:
TD-01
 BHT **6** OF **15**

2/28/24
 User: nadas@atwell.com
 Project: 23-157 - JCELC - CIVIL PLANS
 File: 23-157 - JCELC - CIVIL PLANS - TESC NOTES & DETAILS.DWG