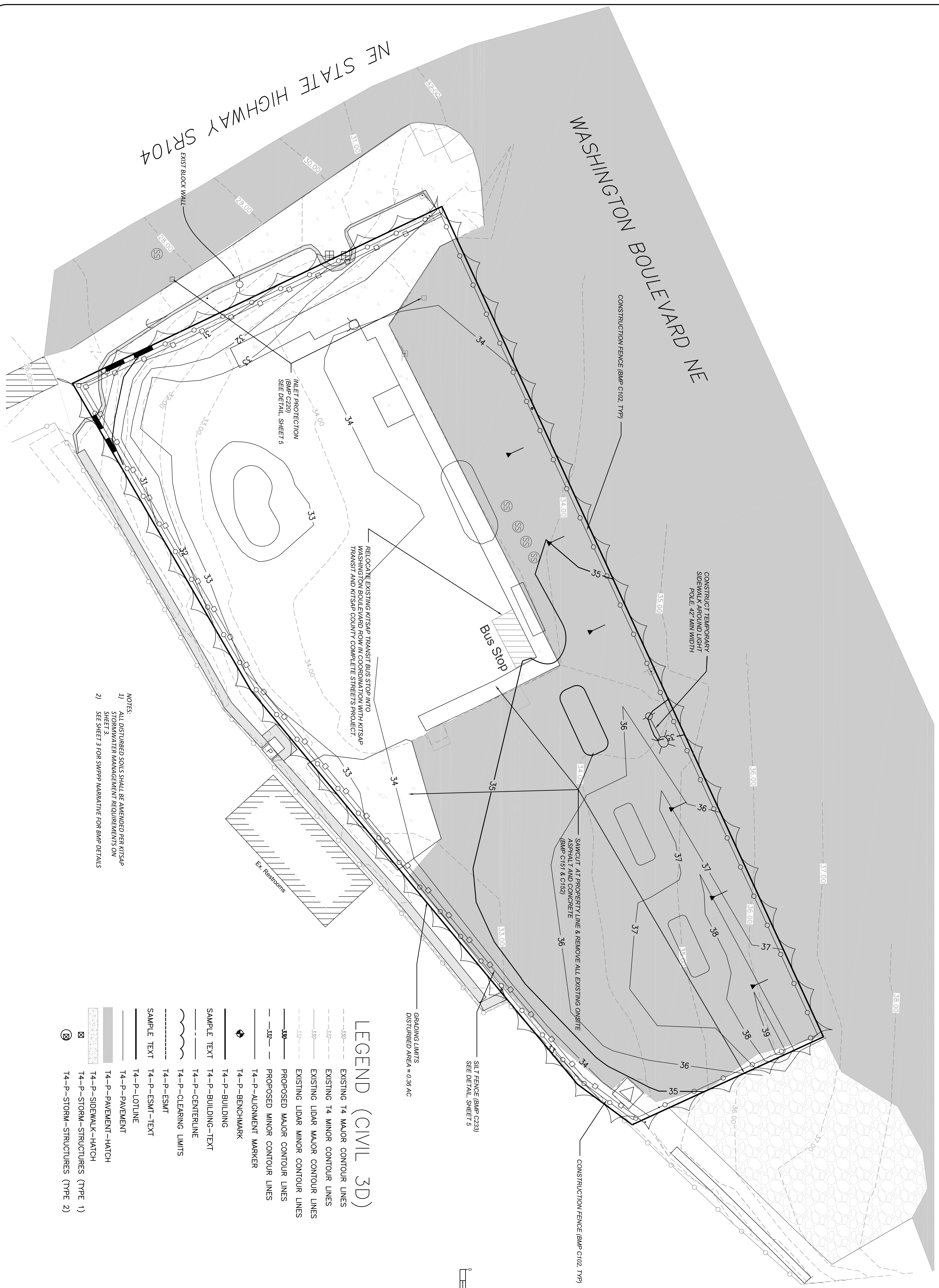


WASHINGTON PARK

TESC & DEMOLITION PLAN

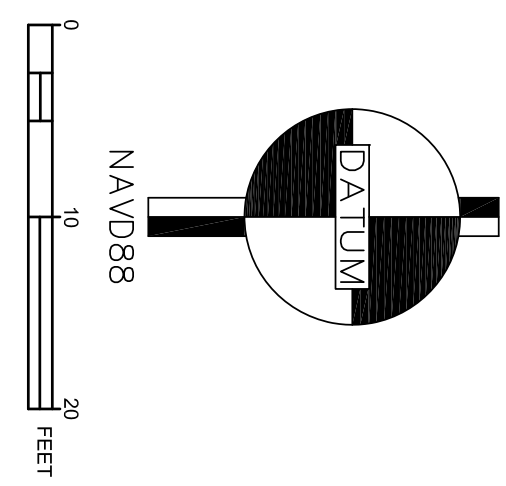


NOTES:
 1) ALL DISTURBED SOILS SHALL BE AMENDED PER KITSAP STORMWATER MANAGEMENT REQUIREMENTS ON SHEET 3.
 2) SEE SHEET 3 FOR SWPPP NARRATIVE FOR BMP DETAILS

LEGEND (CIVIL 3D)

	EXISTING T4 MAJOR CONTOUR LINES
	EXISTING T4 MINOR CONTOUR LINES
	EXISTING LIDAR MAJOR CONTOUR LINES
	EXISTING LIDAR MINOR CONTOUR LINES
	PROPOSED MAJOR CONTOUR LINES
	PROPOSED MINOR CONTOUR LINES
	T4-P-ALIGNMENT MARKER
	T4-P-BENCHMARK
	T4-P-BUILDING
	T4-P-BUILDING-TEXT
	T4-P-CENTERLINE
	T4-P-CLEARING LIMITS
	T4-P-ESMT
	T4-P-ESMT-TEXT
	T4-P-LOTLINE
	T4-P-PAVEMENT
	T4-P-PAVEMENT-HATCH
	T4-P-SIDEWALK-HATCH
	T4-P-STORM-STRUCTURES (TYPE 1)
	T4-P-STORM-STRUCTURES (TYPE 2)

GRADING LIMITS
 DISTURBED AREA = 0.36 AC



Wash. Grid Sys., North Zone (NAD83)

PROJECT MANAGER: BERNI KENWORTHY, PE

TEAM 4 ENGINEERING
 5819 NE MINDER RD
 POULSBO, WA. 98370
 (360) 297-5560
 (360) 297-7951 (FAX)

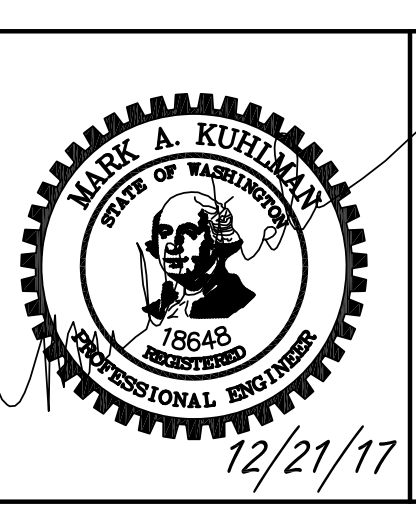
SHEET 2 OF 7
 FILE NO 975



SIGNATURE:

TITLE: WASHINGTON PARK
 TESC & DEMOLITION PLAN

CLIENT: PORT OF KINGSTON
 JIM PIVARNIK
 PO BOX 559
 KINGSTON, WA
 (360) 297-3545



REV NO	REVISION DESCRIPTION	DATE	BY
1	REVISIONS PER COUNTY COMMENTS	10-20-17	DJB
2	REVISIONS PER COUNTY COMMENTS	12-21-17	DJB

DESIGN	BRK
DRAWN	JKA
CHECKED	BRK
SEC 25	T 27N R 2E
DISC NO	DATE 12/18/16
SCALE	1" = 10'

Standard Plan Notes

Construction Sequence

1. Apply for and pick up any right of way permits from Kitsap County Department of Public Works.
2. Construct stabilized construction entrance(s).
3. Construct temporary erosion control.
4. Install catch basins, filter socks.
5. Construct temporary sediment trap.
6. Construct runoff interception swales.
7. Clear and grade the minimum site area required for construction of the various phases of work.
8. Provide temporary hydroseeding or other source control stabilization measures on all disturbed soils.
9. Maintain all erosion and sedimentation control facilities to prevent erosion and sedimentation.
10. All work required prior to construction of final site shall be completed prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.
11. Provide permanent site stabilization.
12. Erosion and sedimentation control facilities shall not be removed until construction is complete and accepted by Kitsap County.

Drainage Notes

1. The contractor shall ensure that the drainage is installed and operational prior to commencement of paving work.
2. All steel pipe and parts shall be galvanized. All submerged steel pipes and parts shall be galvanized and have asphalt treatment #1 or better.
3. Drainage stubouts on individual lots shall be located with a five foot high 2" x 4" stake marked "STORM". The stubout shall extend above surface level and be to the stake.
4. All existing drainage shall be replaced with new drainage existing grade, prepared and seeded.
5. Temporary Erosion and Sedimentation Control facilities shall be maintained by THE CONTRACTOR

Grading Notes

1. The contractor shall notify the engineer in the event of discovery of poor soils, groundwater or discrepancies in the existing conditions as noted on the plans.
2. Minimum slope steepness shall be 2:1 (Horizontal to Vertical).
3. Unless otherwise specified all embankments in the Plan Set shall be constructed in accordance with Section 2-03.3(4)B of the WSOT Standard Specifications. Embankment compactions shall conform to Section 2-03.3(4)C, Method B of said Standard Specifications.
4. Embankments designed to impound water shall be compacted to 95% maximum density per section 2-03.3(4)C, Method C of WSOT Standard Specifications.
5. All areas receiving fill material shall be prepared by removing vegetation, non-complying fill, topsoil and other undesirable material, by scarifying the surface to provide a bond with the underlying soil.
6. All areas receiving fill material shall be prepared by removing vegetation, non-complying fill, topsoil and other undesirable material, by scarifying the surface to provide a bond with the underlying soil.
7. The height of the embankment shall be greater than 5 ft. by extending into sound competent material as determined by a soils engineer.
8. Grading to be performed in compliance with KCSDM Chapter 11.

General Notes

1. All workmanship and materials shall conform to the MOST MILESTANDARD Specifications for Road, Bridge and Utility Construction, published by WSOT, and adopted by the Kitsap County Department of Public Works (KCPW).
2. Any revisions to the accepted construction plans shall be reviewed and approved by the County prior to implementation in the field.
3. The contractor shall maintain a set of the accepted construction drawings on-site at all times while construction is in progress.
4. It shall be the responsibility of the contractor to obtain all work within County right-of-way.
5. The contractor shall be responsible for providing adequate traffic control at all times during construction alongside or within all public roadways. Traffic flow on existing public roadways shall be maintained at all times, unless permission is obtained from the KCPW for road closure and/or detours.
6. The location of existing utilities on this plan is approximate only. The contractor shall contact the Underground Locate Center at 811, and non-subscribing individual utility companies in advance of the commencement of any construction activity. The contractor shall be responsible for identifying utilities from damage caused by the contractor's operations.
7. Rockeries or other retaining facilities exceeding 4 ft. in height require a separate permit.
8. A "Forestry Practices" permit may be required prior to clearing of the site.

Inspection Schedule

1. Clearing limits.
2. Implementation of the various phases of the Erosion and Sedimentation control Plan.
3. After rough grading
4. Inspection of sidewalks, curb and gutter prior to paving operations
5. Inspection of ADA ramps
6. Final inspection.

General Erosion and Sedimentation Control Notes

1. The following erosion and sedimentation control notes apply to all construction site activities at all times, unless otherwise specified on these plans:
2. Approval of this erosion and sedimentation control plan does not constitute an acceptance of the permanent road or drainage design.

WASHINGTON PARK

TESC & AMENDED SOILS NOTES

convergence systems.

3. The owner and his/her contractor shall be responsible at all times for preventing silt-laden runoff from discharging from the project site. Failure by the owner and/or contractor can result in a fine. The designated temporary contact person noted on this plan must be available for contact by telephone for all work. The designated temporary contact person noted on this plan shall be responsible for ensuring that the contractor project has been approved and accepted by the utility.
4. The implementation of these ESC plans and the construction, maintenance, replacement and upgrading of these facilities is the responsibility of the owner and/or contractor from the beginning of construction until all construction is completed and accepted by the county and the site is stabilized.
5. Prior to beginning any work on the project site, a preconstruction conference must be held, and shall be attended by the contractor, the project engineer, representatives from the utility, and a representative of Kitsap County.
6. The erosion and sedimentation control facilities shown on this plan are to be considered adequate basic requirements for the anticipated site conditions. During construction, deviations from this plan may be necessary in order to maintain water quality. Minor departures from this plan are permitted subject to the approval of the county inspector. However, except for those deviations that are approved by the county inspector, the contractor shall be responsible for the design, construction, and maintenance of the erosion and sedimentation control measures shall be inspected by the owner and/or contractor on a frequent basis and immediately after each rainfall, and maintained as necessary to insure their continued functioning. All sediment ponds, etc. prior to the sediment reaching 1/3 its maximum potential depth.
8. At no time shall concrete, concrete by-products, vehicle wash water, oil, grease, or other pollutants be allowed to discharge to the temporary or permanent drainage system, or to discharge from the project site.
9. Permanent detention/retention ponds, pipes, tanks or vaults may only be used for sediment containment when specifically indicated on these plans.

Minimum Erosion and Sedimentation Control Requirements

1. Stabilization and sediment trapping. All exposed and unworked soils, including soil stockpiles, shall be stabilized by the use of straw mulch, straw wattles, straw bales, erosion control blankets, mulching, plastic covering, and the early application of gravel base on areas to be paved. From October 1 to April 30, no soils shall remain unstabilized for more than 2 days. From May 1 to September 30, no soils shall remain unstabilized for more than 7 days.
2. At all times of the year, the contractor shall have a site and present erosion from all denuded areas within 12-hours of site and weather conditions dictate.
3. From October 1st to April 30th, the Project Engineer shall visit the development site a minimum of once per week for the purpose of inspecting the erosion and sedimentation control facilities, reviewing the progress of construction, and verifying the effectiveness of the erosion control measures being undertaken. The Project Engineer shall immediately inform the contractor of any deficiencies. The contractor shall be responsible for the design, construction, and maintenance of the erosion control measures to be undertaken. When requested by the County, the Project Engineer shall provide the County with written records of said weekly site visits, including dates of visits and noted site observations.
4. In the event that ground on a project site is left bare after September 30th, the County may issue a Stop Work Order for the entire project until satisfactory controls are provided. In addition, the County may suspend the contractor's permit for the project site.
5. In the event that ground on a project site is left bare after September 30th, and the County is unsuccessful in contacting the Owner or his/her designated emergency contact person, the County may enter the project site and install temporary ground cover measures and bill the Owner for all expenses incurred by the County. These costs will be in addition to any monetary penalties levied against the Owner.
6. Detention of clearing and easement limits. Clearing limits shall be established in accordance with the Building Soil Manual in the field and inspected by Kitsap County Department of Community Development prior to commencement of land clearing activities. During the construction period, no disturbance beyond the flagged clearing limits shall be permitted. The flagging shall be maintained by the applicant/contractor for the duration of construction.
7. Protection of adjacent properties. Adjacent properties shall be protected from sediment deposition by appropriate use of mulching, or by a combination of these measures and other appropriate BMPs.
8. Timing and stabilization of sediment trapping measures. Sediment ponds and traps, perimeter dikes, sediment barriers and other BMPs intended to trap sediment on-site shall be constructed as a first step in grading. These BMPs shall be functional before land disturbing activities take place. Earth structures such as dams, dikes, and diversions shall be stabilized according to the timing indicated in Item (1) above in this section.
9. Protection of adjacent properties. Adjacent properties shall be protected from sediment deposition by appropriate use of mulching, or by a combination of these measures and other appropriate BMPs.
10. Timing and stabilization of sediment trapping measures. Sediment ponds and traps, perimeter dikes, sediment barriers and other BMPs intended to trap sediment on-site shall be constructed as a first step in grading. These BMPs shall be functional before land disturbing activities take place. Earth structures such as dams, dikes, and diversions shall be stabilized according to the timing indicated in Item (1) above in this section.
11. Control of off-site erosion. Properties and waterways downstream from development sites shall be protected from erosion due to increases in the volume, velocity, and peak flow rate of stormwater runoff from the development site by the implementation of appropriate BMPs to minimize adverse downstream impacts.
12. Temporary on-site conveyance channels shall be designed to convey stormwater runoff from the development site to the waterway. Slopes shall be stabilized in accordance with Item (1) above.
13. Control of off-site erosion. Properties and waterways downstream from development sites shall be protected from erosion due to increases in the volume, velocity, and peak flow rate of stormwater runoff from the development site by the implementation of appropriate BMPs to minimize adverse downstream impacts.
14. Temporary on-site conveyance channels shall be designed to convey stormwater runoff from the development site to the waterway. Slopes shall be stabilized in accordance with Item (1) above.
15. Stabilization of temporary conveyance channels and outlets. Temporary on-site conveyance channels shall be designed to convey stormwater runoff from the development site to the waterway. Slopes shall be stabilized in accordance with Item (1) above.
16. Temporary on-site conveyance channels shall be designed to convey stormwater runoff from the development site to the waterway. Slopes shall be stabilized in accordance with Item (1) above.
17. Temporary on-site conveyance channels shall be designed to convey stormwater runoff from the development site to the waterway. Slopes shall be stabilized in accordance with Item (1) above.
18. Temporary on-site conveyance channels shall be designed to convey stormwater runoff from the development site to the waterway. Slopes shall be stabilized in accordance with Item (1) above.
19. Temporary on-site conveyance channels shall be designed to convey stormwater runoff from the development site to the waterway. Slopes shall be stabilized in accordance with Item (1) above.
20. Temporary on-site conveyance channels shall be designed to convey stormwater runoff from the development site to the waterway. Slopes shall be stabilized in accordance with Item (1) above.

convergence systems.

12. Storm drain inlet protection. All storm drain inlets made of concrete shall be protected so that stormwater runoff shall not enter the conveyance system without first being filtered or otherwise treated to remove sediment. After proper written application, the requirement for inlet protection may be waived by the County on a site-specific basis when the conveyance system downstream of the inlet discharges to an appropriate sediment containment facility. Inlet protection shall be adequately cleaned following site stabilization.
13. Underground utility construction. The construction of underground utility lines shall be limited, where feasible, to no more than 500 feet of open trench at any one time. Where material shall be placed on the uphill side of the trench. Dewatering devices shall discharge to an appropriate sediment trap or pond, protected by adequate energy dissipation, prior to discharge to the stormwater conveyance system.
14. Constructed access roads. Wherever construction vehicle access routes intersect paved roads, provisions must be made to minimize the transport of sediment (mud) into the paved road by use of appropriate BMPs such as a Stabilized Construction Entrance. If sediment is transported onto a road surface, the roads shall be cleaned thoroughly, as a minimum, at the end of each day. Sediment shall be removed from roads by shoveling or sweeping and be transported to a controlled sediment disposal area. Street washing shall be allowed only after approval of the County.
15. Removal of temporary BMPs. All temporary erosion and sediment control BMPs shall be removed within 30 days after final site stabilization is achieved or after the temporary BMPs re no longer needed. Trapped sediment shall be removed or stabilized on-site. Disturbed soil areas resulting from removal of temporary BMPs shall be permanently stabilized. The removal of temporary erosion and sediment control BMPs may not be required for those projects, such as single family plots, that are permitted in these circumstances, the need for removing or retaining the measures will be evaluated on a site-specific basis.
16. Dewatering construction sites. Dewatering devices shall discharge into an appropriate sediment trap or pond, designed to accept such a discharge, preceded by adequate energy dissipation, prior to runoff leaving the site.
17. Control of pollutants other than sediment on construction sites. Control of pollutants other than sediment on construction sites shall be the responsibility of the contractor. The contractor shall be responsible for the design, construction, and maintenance of the erosion control measures to be undertaken. When requested by the County, the Project Engineer shall provide the County with written records of said weekly site visits, including dates of visits and noted site observations.
18. Maintenance. All temporary and permanent erosion and sediment control BMPs shall be maintained and repaired as needed to assure continued performance of their intended purpose. The contractor shall be responsible for the design, construction, and maintenance of the erosion control measures to be undertaken. When requested by the County, the Project Engineer shall provide the County with written records of said weekly site visits, including dates of visits and noted site observations.
19. Financial liability. A performance covenant or performance surety, shall be required for all projects to ensure compliance with the approved erosion and sediment control plan, as outlined in Section 12.12 of the Kitsap County Code.

Design Standard: Amendment of Disturbed Soils

- Amend existing or imported soils to provide flow control (quantity) and water quality treatment. Use in new construction where soils have been disturbed, renovations where light health is poor and near runoff source where pesticides would cause contamination. This technique can be used under conventional stormwater ponds, filter strips, bioretention area, or dispersion areas.
- Naturally occurring (undisturbed) soil and vegetation provide the most effective stormwater management and infiltration. Water infiltration, sedimentation and pollution abatement, water treatment, and pollutant biodeposition. These functions are lost when development strips away native soil and vegetation and replaces it with minimal soil and sod. Not only are these important stormwater management functions lost, but such landscapes themselves become pollution-generating pervious surfaces due to increased use of pesticides/fertilizers and other landscaping and maintenance materials/pollutants that accompany roadside litter.
- Establishing a minimum soil quality and depth is not the same as preservation of naturally occurring soil and vegetation. However, establishing a minimum soil quality and depth by amending disturbed soils with compost, regions greater than 100 sq. ft. in area, shall be required. The Building Soil Manual provides increased treatment of pollutants and nutrients in the soil, and provides guidelines for amending soils, and reducing pollution through prevention.
- Application rates and techniques for incorporating amendments will vary with the use and plant requirements of the area. Landscapes with high pedestrian traffic (notably lawns) during wet months will require specific amendments to prevent spongy soils.
- Post construction soil quality and depth restoration is required on all sites wherever existing soil or vegetation is disturbed. Areas of sites where existing vegetation and soil are not compacted or disturbed do not have to be restored.

Advantages

- Reduced stormwater runoff / increased moisture retention;
 - Improved irrigation needs;
 - Improved water quality through pollutant adsorption and biotiltration;
 - Plant establishment and health;
 - Improved infiltration;
 - Reduced sediment filtration;
 - Reduced erosion;
 - Reduced fertilizer/pesticide use.
- Disadvantages**
- Increased cost;
 - Disrupting an area for staging materials and amending soils;
 - Increased export and import costs;
 - Foot-traffic issues associated with slow-draining soils.

Data Requirements

Determine soil quality, including organic material; hydrologic characteristics; soil depth; and data. Be careful using soils that will have the potential to become compacted.

Schematic

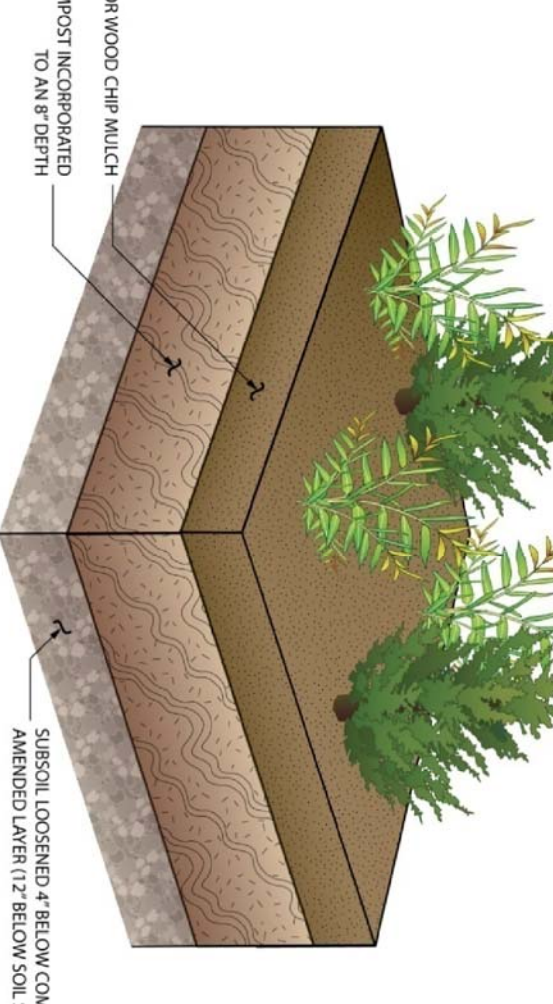


Figure 6.1: Cross Section of Planting Bed Soil Amendment. (Source: Seattle Public

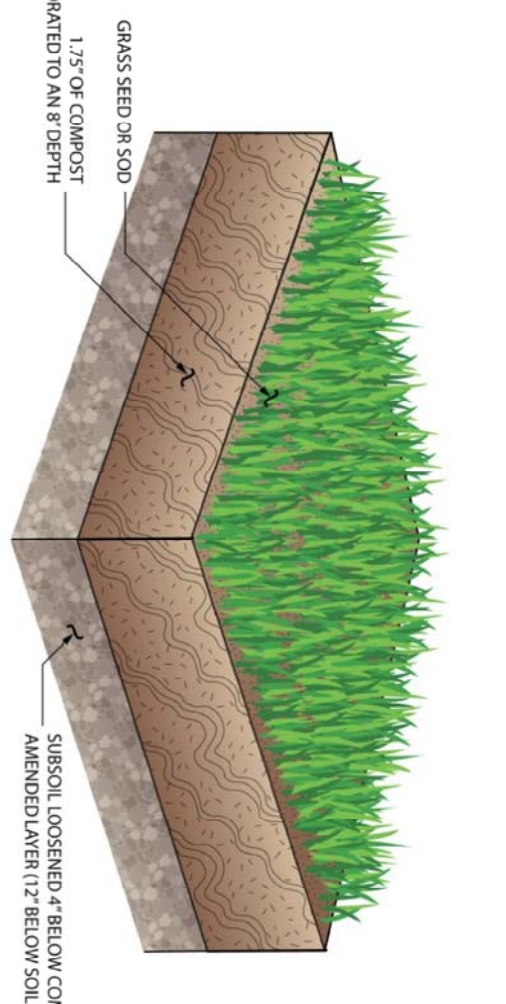


Figure 6.2: Cross Section of Turf Soil Amendment. (Source: Seattle Public Utilities/Seattle Department of Planning and Development)

- Specification**
- It is important that the compost or other organic materials used to meet the soil quality and depth necessary be appropriate and beneficial to the plant cover to be established. Likewise, it is important that imported topsoils improve soil conditions and do not have an excessive percent of clay or silt fines that might restrict stormwater infiltration.
- Soil Retention**
- Soil depth and native topsoil should be retained in an undisturbed state and protected from compaction to the maximum extent practical. In any areas requiring grading, remove and stockpile the duff layer and topsoil on site in a designated, controlled area, not adjacent to public resources and critical areas, to be reapplied to other portions of the site where feasible.
- Soil Quality**
- All areas subject to clearing and grading that have not been tested or impeded as structures, concrete, or drainage facilities shall be tested and amended to meet the maximum depth and quality of the original undisturbed soil. (Note: The Building Soil Manual provides the most current version of ASTM D2974 Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils and TMECC 05.07A Loss-On-Ignition Organic Matter Method.)
- o The topsoil layer shall have a minimum depth of 8 inches;
 - o Where tree roots limit the depth of incorporation of amendments, those root zones are exempted from the minimum depth requirement, and amended and protected from stripping of soil through grading or compaction to the maximum extent practical;
- A topsoil layer meeting these requirements:
- o Topsoil shall have a minimum organic matter content by the loss-on-ignition test of 8 percent dry weight in planting beds, or 4 percent organic matter content in turf areas, and a pH from 6.0 to 8.0 or more;
 - o The topsoil shall be amended to meet the maximum depth and quality of the original undisturbed soil.
- (Note: The Building Soil Manual provides the most current version of ASTM D2974 Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils and TMECC 05.07A Loss-On-Ignition Organic Matter Method.)
- o The topsoil layer shall have a minimum depth of 8 inches;
 - o Where tree roots limit the depth of incorporation of amendments, those root zones are exempted from the minimum depth requirement, and amended and protected from stripping of soil through grading or compaction to the maximum extent practical;

- Subsoils below the topsoil layer should be scarified at least 4 inches, for a finished minimum depth of 12 inches of uncompacted soil, with some incorporation of the upper material to avoid stratified layers, where feasible;
 - Planting beds must be mulched after planting with 2 inches of organic material such as wood chips, shredded leaves, compost, etc.;
 - Quality of compost and other materials used to meet the organic content requirements:
 - o The organic content for pre-approved amendment rates can be met only using compost that meets the definition of composted materials in WAC 173-350 section 220. This code is available at the Dept. of Ecology's website: <http://www.ecy.wa.gov/programs/swr/compost/>.
 - o The compost must also have an organic matter content of 40 percent to 65 percent dry weight, as determined by the method described in WAC 173-350 section 220, to the Puget Sound Lowlands region;
 - o Calculated amendment rates may be met through use of composted materials as defined above; or other organic materials amended to meet the carbon to nitrogen ratio requirements, and meeting the contaminant standards of specified in WAC 173-350 section 220. The method for calculating custom amendment rates is established in the Building Soil Manual referenced below.
- The resulting soil should be conducive to the type of vegetation to be established.

General Installation Requirements

Implementation Options

- These soil quality design guidelines listed above can be met by using one of the four methods listed below:
- Leave undisturbed vegetation and soil, protect from compaction by fencing and keeping materials storage and equipment off these areas during construction;
 - Amend existing site topsoil or subsoil either at default pre-approved rates, or at custom calculated rates to meet the soil quality guidelines above based on specifiers' tests of the soil and amendment. The default pre-approved rates are:
 - o In planting beds, place 3 inches of compost and fill in to an 8 inch depth;
 - o For turf areas, place 1.5 inches of compost and fill in to an 8 inch depth;
 - Stockpile existing topsoil in 12-inch depth piles and stockpile in a designated area. Topsoil must also be amended if needed to meet the organic matter or depth requirements, either at the default pre-approved rate or at a custom calculated rate. (See Building Soil manual or website below for custom calculation method). Import topsoil mix of sufficient organic content and depth to meet the requirements. Imported soils should not contain excessive clay or silt fines (excessive is defined as more than 5% passing the No. 200 sieve) because that could restrict stormwater infiltration. The default pre-approved rates for imported topsoils are:
 - o For planting beds, a mix by volume of 35 percent compost with 65 percent mineral soil is pre-approved to achieve the requirement of 8 percent organic matter by loss-on-ignition test;
 - o For turf areas, a mix by volume of 20 percent compost with 80 percent mineral soil is pre-approved to achieve the requirement of 4 percent organic matter by loss-on-ignition test.
- More than one method may be used on different portions of the same site. Soil that already meets the depth and organic matter quality standards, and is not compacted, does not need to be amended.

Soil Management Plan

- A Soil Management Plan is required, including:
- A site map showing areas to be fenced and left undisturbed during construction, and areas that will be amended at the turf or planting bed rates;
 - Calculations of the amounts of compost, compost amended topsoil, and mulch to be used on the site;
 - Sample forms for the Soil Management Plan, and more guidance on these procedures, can be found in the Building Soil manual, available on the www.soilstoastomn.org website.

Construction Specifications and Criteria

- Minimum construction requirements include the following:
- Soil quality and depth should be established toward the end of construction and once established, should be protected from compaction, such as from large machinery use, and from erosion;
 - Soil should be planted and mulched after installation;
 - Inspection and verification procedures will include:
 - o Inspection of delivery tickets for material; amended soil and mulch to verify types and quantities match those specified on the Soil Management Plan;
 - o Digging or coring several holes to verify appearance of compost-amended soil to a minimum 12-inch depth;
 - o Use of a rod penetrometer (3/8 inch rod with handle), every 20 feet across site to verify that the rod can be pushed into the soil at least 12 inches by the inspector's weight;
 - o Use of a shovel to scrape aside mulch on planting beds in several places to verify a minimum 2-inch mulch depth;
 - o Sample forms for Field Verification, can be found in the Building Soil manual or on the www.soilstoastomn.org website.
- Operations & Maintenance Requirement**
- Soil depth and native topsoil should be retained in the soil surface through mulch-mowing of turf areas, and blowing shredded fall leaves into beds or annual mulching to replenish organic matter.
- It should be possible to reduce use of irrigation, fertilizers, herbicides and pesticides. These activities should be adjusted where possible, rather than continuing to implement formerly established practices. In particular, regular use of soluble fertilizers, broadcast herbicides and insecticides degrades soil life and composts soils. Instead, fertilization can be reduced, using slow-release or organic products, and integrated pest management techniques will minimize the need for pesticides.

Enhanced Treatment

- Dispersion BMPs – see relevant Standards Sheets.
- Flow Credit**
- This standard is a required BMP for construction impacted soils, therefore there are no flow credits for implementing this standard.

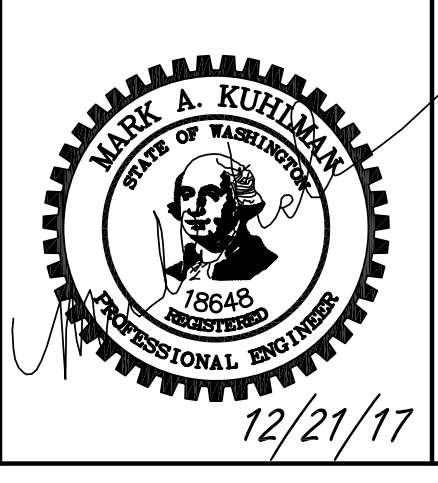
Permit Requirements – Refer to Jurisdiction Addenda in Appendix J

References

- Material for this section was taken directly from Seattle Public Utilities BMP for Post-Construction Soil Quality and Depth.

DESIGN	BRK
DRAWN	JKA
CHECKED	BRK
SEC	25 T 27N R 2E
DISC NO	DATE 12/18/16
SCALE	AS NOTED

REV NO	REVISION DESCRIPTION	DATE	BY
1	REVISIONS PER COUNTY COMMENTS	10-20-17	DJB
2	REVISIONS PER COUNTY COMMENTS	12-21-17	DJB



SIGNATURE _____

TITLE WASHINGTON PARK
TESC & AMENDED SOILS NOTES

CLIENT PORT OF KINGSTON
JIM PIVARNIK
PO BOX 559
KINGSTON, WA
(360) 297-3545



PROJECT MANAGER BERNI KENWORTHY, PE

TEAM 4 ENGINEERING
5819 NE MINDER RD
POULSBO, WA. 98370
(360) 297-5560
(360) 297-7951 (FAX)

SHEET 3 **OF** 7
FILE NO 975

WASHINGTON PARK

DETAILS

DRAWN BY: FERN LIDDELL

PARALLEL CURB RAMP
STANDARD PLAN F-40,12-03
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
DATE: 12/21/2016 9:19 AM
DESIGNED BY: FERN LIDDELL
CHECKED BY: FERN LIDDELL
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

NOTES

- At marked crosswalks, the connection between the landing and the roadway must be continued within the width of the crosswalk markings.
- When "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
- Minor or any part of the Curb Ramp or Landing, or in the depressed Curb and Gutter where the Landing connects to the roadway.
- See Contract Plans for the curb design specified. See Standard Plan F-40,12 for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
- See Standard Plan F-20,10 for Concrete Concrete Sidewalk Details.
- The bid item "Concrete Curb Ramp, Type..." does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb or Sidewalks.
- The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landings in the 15-foot max. measurement. When a ramp is constructed on a radius, the sidewalk length is measured on the radius (along the back of the curb/walkway).
- Curb Ramps and landings shall receive a broom finish. See Standard Specifications 8-14.
- Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing. Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb will be in accordance with the following:

LEGEND

- * SLOPE IN EITHER DIRECTION
- ** 7.5% OR FLATTER RECOMMENDED FOR DESIGN FOREWORK (8.5% MAX) - SEE NOTE 7

DRAWN BY: LISA CYFORD

RECTANGULAR ADJUSTMENT SECTION

PIPE ALLOWANCES

PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
EMERGENCY OR FLOW CONCRETE	12"
ALL METAL PIPE	16"
CONCRETE (SECT. 4-9.20)	12"
SOIL WALL PVC (SD-1 WALL SECT. 1-9.4.1(1))	16"
PROFILE WALL PVC (SD-1 WALL SECT. 1-9.4.1(2))	16"

NOTES

- As acceptable alternatives to the detail shown in the PRECAST BASE SECTION, (bars placed according to the Standard Specifications) or (bars placed according to the Standard Specifications) or (bars placed according to the Standard Specifications) may be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
- The knockout diameter shall not be greater than 20" (6). Knockouts shall have a wall thickness of 2" (6) minimum to 2.8" (6) maximum. Provide a 1.5" (4) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.
- The maximum depth from the finished grade to the lowest pipe invert shall be 8" (8).
- The frame and grate may be installed with the flange down, or inappropriately cast into the adjustment section with flange up.
- The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.
- The opening shall be measured at the top of the Precast Base Section.
- All pickup holes shall be grouted full after the basin has been placed.

PARALLEL CURB RAMP
STANDARD PLAN F-40,12-03
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
DATE: 12/21/2016 9:19 AM
DESIGNED BY: LISA CYFORD
CHECKED BY: LISA CYFORD
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

DRAWN BY: FERN LIDDELL

TRUNCATED DOME GRATE
STANDARD PLAN F-45,10-02
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
DATE: 12/21/2016 9:19 AM
DESIGNED BY: FERN LIDDELL
CHECKED BY: FERN LIDDELL
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

NOTES

- The Detectable Warning Surface (DWS) shall extend the full width of the curb ramp. The DWS requires a concrete border around the DWS, a variation of up to 2 inches on each side of the DWS is permitted.
- The Detectable Warning Surface (DWS) shall be placed at the back of curb, with the two leading corners of the DWS panel placed adjacent to the back of curb, and extend to the center of the DWS panel. Exception: If the manufacturer of the selected DWS requires a concrete border around the DWS, a variation of up to 2 inches from the back of the curb is permitted (measured at the leading corners of the DWS panel).
- The rows of truncated domes shall be aligned to be perpendicular to the grade break at the back of curb.
- The rows of truncated domes shall be aligned to be parallel to the direction of travel. LANDING CUT-THROUGH OR MATCH TO WIDTH OF CURB RAMP.
- If curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
- See Standard Plans for sidewalk and curb ramp details.
- If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail.
- When the grade break between the curb ramp and the stable Warning Surface on the bottom of the curb ramp directly above the grade break.

CATCH BASIN TYPE 2
WSDOT STD PLAN B-1e - DETAIL

PIPE ALLOWANCES

CATCH BASIN DIAMETER	WALL THICKNESS	BASE THICKNESS	MINIMUM DISTANCE BETWEEN KNOCKOUTS	BASE REINFORCING STEEL
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"

NOTES

- No steps are required when height is 4' or less.
- The bottom of the precast catch basin may be sloped to facilitate cleaning.
- Frame and grate may be installed with flange down or cast into adjustment section.
- Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Std. Spec. 9-04.3.

PROJECT MANAGER: BERNI KENWORTHY, PE
SIGNATURE: _____
TITLE: WASHINGTON PARK DETAILS
CLIENT: PORT OF KINGSTON
JIM PIVARNIK
KINGSTON, WA
(360) 297-3545

DESIGN: BRK
DRAWN: JKA
CHECKED: BRK
SEC: 25 T 27N R 2E
DISC NO: _____ DATE: 12/18/16
SCALE: AS NOTED

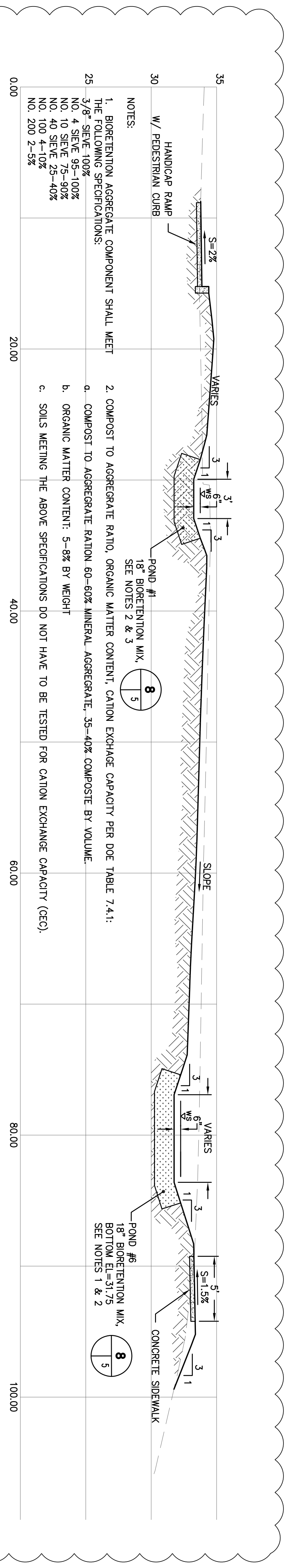
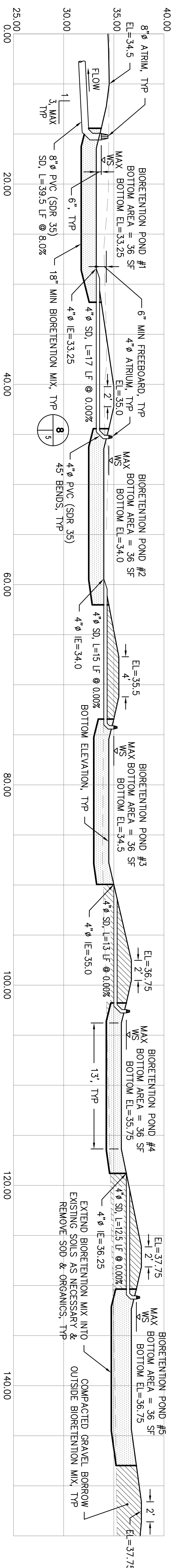
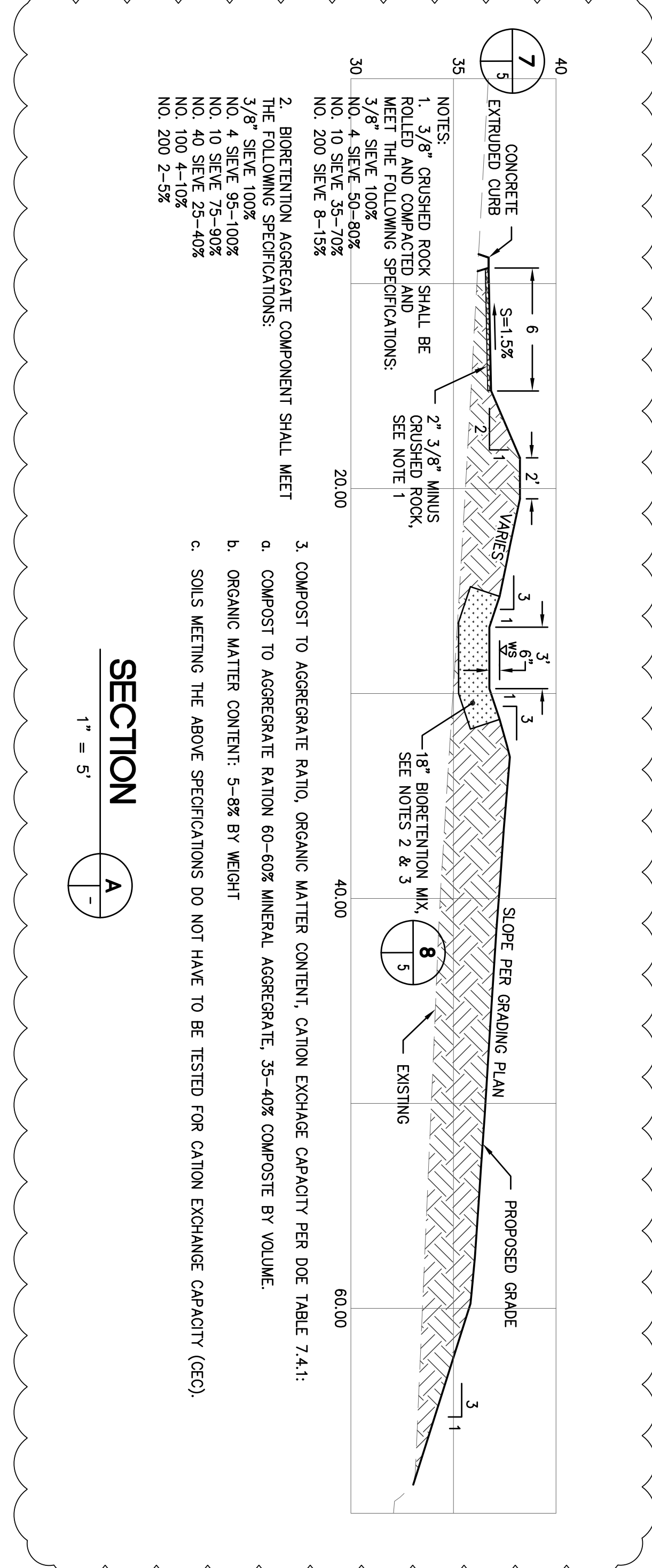
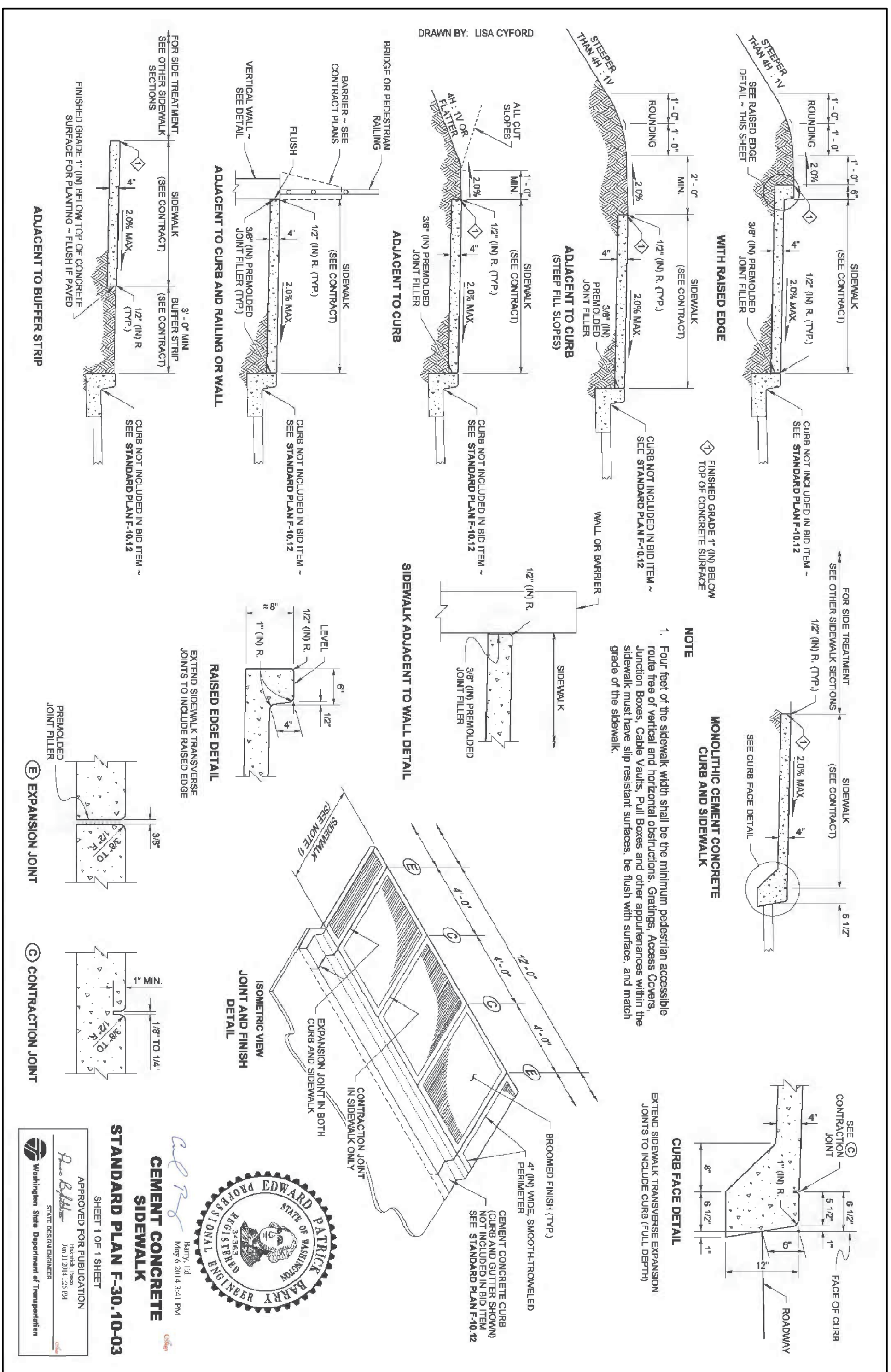
REV NO REVISION DESCRIPTION DATE BY
1 REVISIONS PER COUNTY COMMENTS 10-20-17 DJB
2 REVISIONS PER COUNTY COMMENTS 12-21-17 DJB

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MARK A. KUHLMANN
PROFESSIONAL ENGINEER
12/21/17

WASHINGTON PARK

DETAILS



PROJECT MANAGER: BERNI KENWORTHY, PE	SIGNATURE: _____	TITLE: WASHINGTON PARK DETAILS	CLIENT: PORT OF KINGSTON JIM PIVARNIK PO BOX 559 KINGSTON, WA (360) 297-3545		<table border="1"> <thead> <tr> <th>REV NO</th> <th>REVISION DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>REVISIONS PER COUNTY COMMENTS</td> <td>10-20-17</td> <td>DJB</td> </tr> <tr> <td>2</td> <td>REVISIONS PER COUNTY COMMENTS</td> <td>12-21-17</td> <td>DJB</td> </tr> </tbody> </table>	REV NO	REVISION DESCRIPTION	DATE	BY	1	REVISIONS PER COUNTY COMMENTS	10-20-17	DJB	2	REVISIONS PER COUNTY COMMENTS	12-21-17	DJB	<table border="1"> <tr> <td>DESIGN</td> <td>BRK</td> </tr> <tr> <td>DRAWN</td> <td>JKA</td> </tr> <tr> <td>CHECKED</td> <td>BRK</td> </tr> <tr> <td>SEC</td> <td>25 T 27N R 2E</td> </tr> <tr> <td>DISC NO</td> <td>DATE 12/18/16</td> </tr> <tr> <td>SCALE</td> <td>AS NOTED</td> </tr> </table>	DESIGN	BRK	DRAWN	JKA	CHECKED	BRK	SEC	25 T 27N R 2E	DISC NO	DATE 12/18/16	SCALE	AS NOTED
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SHEET 7 OF 7
FILE NO 975

12/21/17

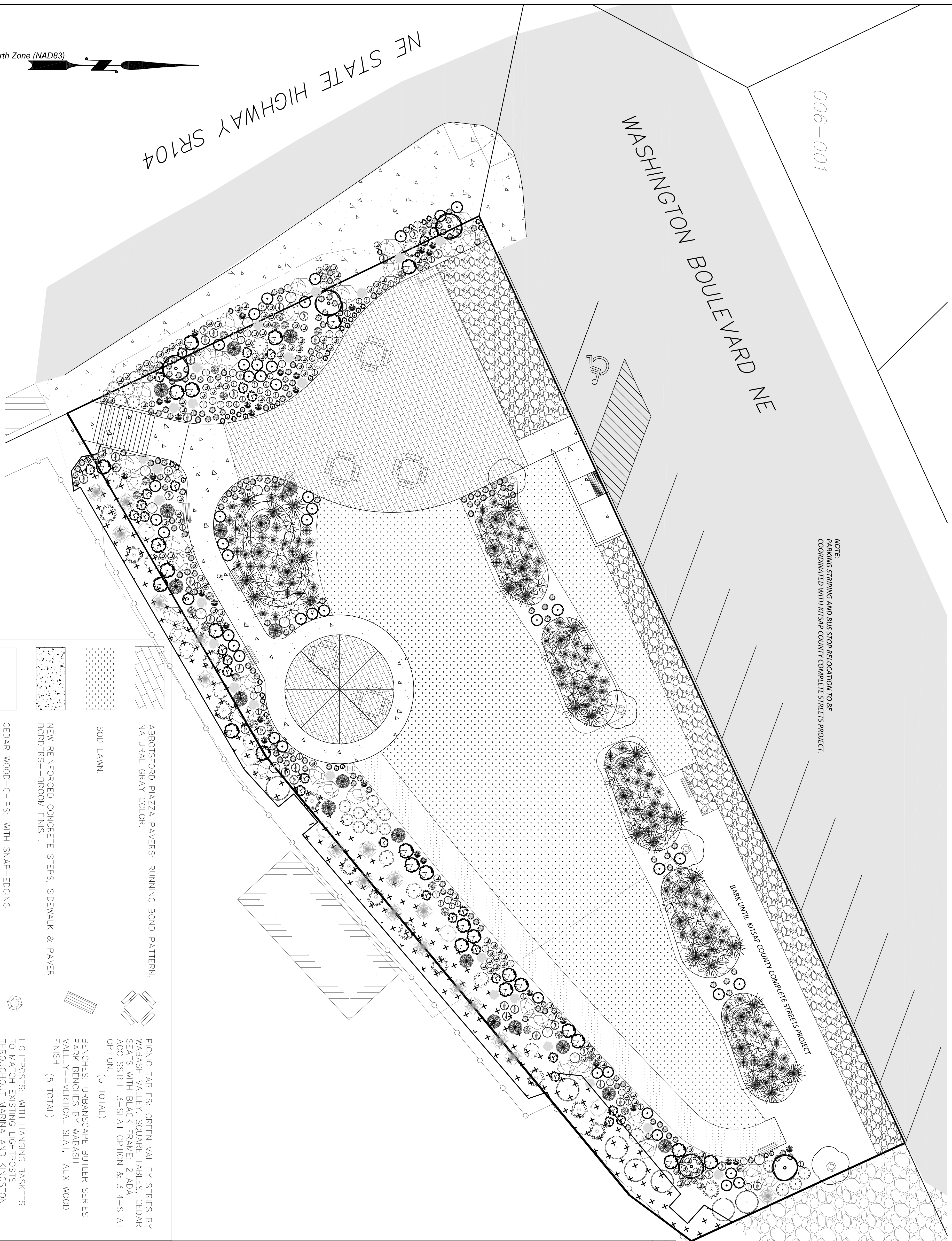
WASHINGTON PARK LANDSCAPING PLAN

006-001

WASHINGTON BOULEVARD NE

NE STATE HIGHWAY SR104

NOTE:
PARKING STRIPING AND BUS STOP RELOCATION TO BE
COORDINATED WITH KINGSP COUNTY COMPLETE STREETS PROJECT.



Wash. Grid Sys., North Zone (NAD83)



	ABBOTTFORD PIAZZA PAVERS: RUNNING BOND PATTERN, NATURAL GRAY COLOR.
	SOD LAWN.
	NEW REINFORCED CONCRETE STEPS, SIDEWALK & PAVER BORDERS--BROOM FINISH.
	CEDAR WOOD--CHIPS: WITH SNAP-EDGING.
	1-2 MAN SIZED ROUNDED WEATHERED GRANITE.
	2-4 MAN SIZED ANGULAR GRAY BASALT BOULDERS WITH FLAT TOPS. (ALSO USING EXISTING BOULDERS ON SITE)
	PICNIC TABLES: GREEN VALLEY SERIES BY WABASH VALLEY SQUARE TABLES, CEDAR SEATS WITH BLACK FRAME. 2 ADA ACCESSIBLE 3--SEAT OPTION & 3 4--SEAT OPTION. (5 TOTAL)
	BENCHES: URBANSCAPE BUTLER SERIES PARK BENCHES BY WABASH VALLEY--VERTICAL SLAT, FAUX WOOD FINISH. (5 TOTAL)
	LIGHTPOSTS: WITH HANGING BASKETS TO MATCH EXISTING LIGHTPOSTS THROUGHOUT MARINA AND KINGSTON STREETS--GARMIRE GRT-10 POSTS, HOLOPHANE HPS 100W FIXTURES. (7 TOTAL)
	TRASH RECEPTACLES: URBANSCAPE SERIES BY WABASH VALLEY--FAUX WOOD & SLAT WITH FLAT TOP. (2 TOTAL)
	BIKE RACK: URBANSCAPE SERIES BY WABASH VALLEY--SERPENTINE BIKERACK IN BLACK (1 TOTAL)

PLANT LIST

BOTANICAL NAME/COMMON NAME	QTY/SIZE	SPACING (ft/ county code)
MALUS JEMICOLE RED, JEMEL / DWARF CRABAPPLE	7 / 2" CAL.	25' O.C.
TAXUS BACCATA 'STANDISHII' / GOLDEN COLUMBIAN YEW	4 / 6' TALL	15' O.C.
MISCANTHUS SINENSIS 'MORNING LIGHT' / VAREGATED MANDEN GRASS	20 / 18"-24"	5' O.C.
CHAMAECYPARIS ORTUSA 'TEMPLEHOFF' / DWARF HINDI CYPRESS	7 / 18"-24"	5' O.C.
AGAPANTHUS ORIENTALIS 'STORM CLOUD' / Lily of the Nile	30 / 12"-18"	3' O.C.
SESLARIA AUTUMNALIS / AUTUMN MOOR GRASS	226 / 12"-18"	3' O.C.
BERBERIS THUNBERGII 'CONCORD' / DWARF BARBERRY	37 / 12"-18"	3' O.C.
BERBERIS 'CONSON RUBY' / COMPACT BARBERRY	41 / 12"-18"	3' O.C.
CAREX TENNILLIUS 'CAPPUCINO' / NEW ZEALAND HAIR SEDGE	61 / 12"-18"	3' O.C.
TAXUS BACCATA 'REPANDENS' / SPREADING ENGLISH YEW	12 / 18"-24"	5' O.C.
TAXUS X MEDIA 'DENSIFORMIS' / DENSE SPREADING YEW	14 / 18"-24"	5' O.C.
SPIRAEA 'MAGIC CARPET' / SPIREA	30 / 12"-18"	3' O.C.
LAVANDULA 'HICOCOTE' / ENGLISH LAVENDER	54 / 12"-18"	3' O.C.
RUBROCOCA RUGOSA 'GOLDSTRUM' / BLACK EYED SUSAN	21 / 12"-18"	3' O.C.
SALVIA X STYLVESTRA 'MAY NIGHT' / WOOD SAGE	37 / 12"-18"	3' O.C.
PINUS MUGO 'MOPS' / DWARF MUGO PINE	23 / 18"-24"	5' O.C.
SEDUM 'AUTUMN JOY' / STONECROP	54 / 12"-18"	3' O.C.
SEDUM 'VERA JAMESON' / DWARF STONECROP	52 / 12"-18"	3' O.C.
NEPETA 'WALKERS LOW' / CATMINT	32 / 12"-18"	3' O.C.
CALLUNA VULGARIS 'WINTER CHOCOLATE' / HEATH	144 / 12"-18"	3' O.C.
FESTUCA GLAUCA 'BEYOND BLUE' / BLUE FESCUE	76 / 12"-18"	3' O.C.
ARUNCUS AETHUSIFOLIUS / DWARF GOATS BEARD	3 / 12"-18"	3' O.C.
JUNCUS EFFRUSUS / SOFT RUSH	7 / 12"-18"	3' O.C.
CORNUS SERICEA 'KELESIW' / KELESY DOGWOOD	7 / 18"-24"	5' O.C.
DESCHAMPSIA CESPIGOSA / TUFTED HAREGRASS	32 / 12"-18"	3' O.C.
COTONEASTER DAMMERI / CREEPING COTONEASTER	50 / 10"	24" O.C.

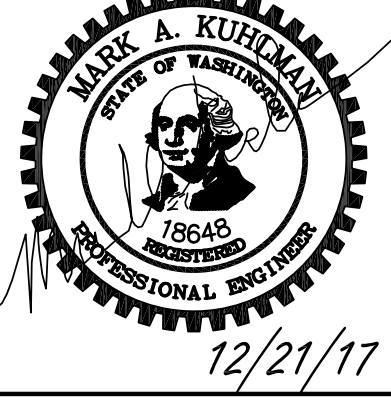
NOTES:
1. 17500.00.D.1 - PLANT QUANTITIES TO BE DETERMINED BY REQUIRED SPACING.
2. 17500.00.D.2 - ALL BEDS ARE TO RECEIVE GROUND COVER THROUGHOUT EXCEPT AS NOTED.

PROJECT MANAGER: BERNI KENWORTHY, PE

SIGNATURE

TITLE: WASHINGTON PARK LANDSCAPING PLAN

CLIENT: PORT OF KINGSTON
JIM PIVARNIK
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KINGSTON, WA
(360) 297-3545



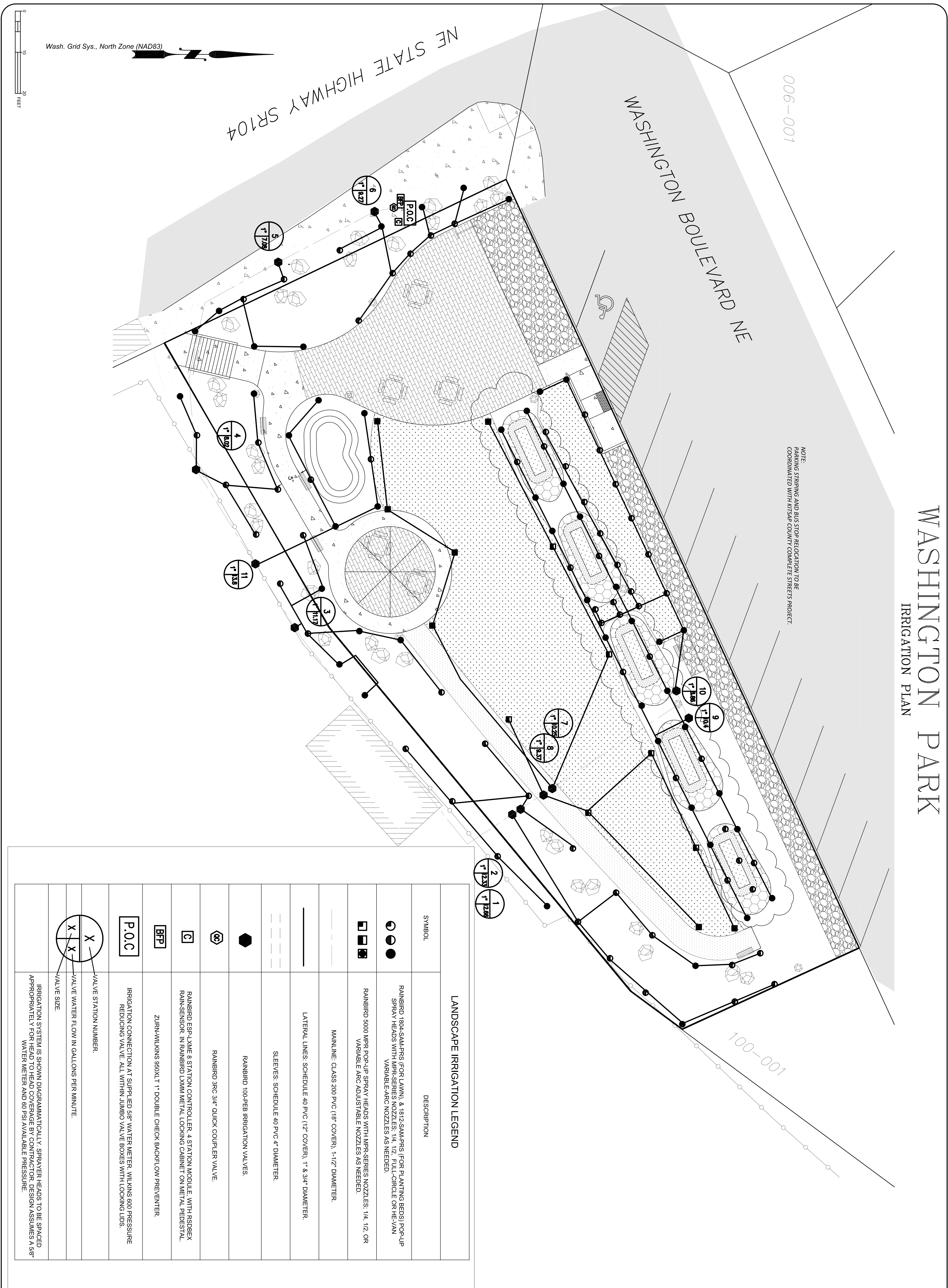
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SEC 25	T 27N R 2E
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SCALE	1" = 10'

SHEET 11 OF 16
FILE NO 975

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WASHINGTON PARK

IRRIGATION PLAN

NOTE:
PARKING STRIPING AND BUS STOP RELOCATION TO BE
COORDINATED WITH KINGSTON COUNTY COMPLETE STREETS PROJECT.

LANDSCAPE IRRIGATION LEGEND

SYMBOL	DESCRIPTION
	RAINBIRD 1804-SAM-PRS (FOR LAWN), & 1812-SAM-PRS (FOR PLANTING BEDS) POP-UP SPRAY HEADS WITH MFR-SERIES NOZZLES: 1/4, 1/2, FULL-CIRCLE OR HE-VAN VARIABLE-ARC NOZZLES AS NEEDED.
	RAINBIRD 5000 MPR POP-UP SPRAY HEADS WITH MFR-SERIES NOZZLES: 1/4, 1/2, OR VARIABLE-ARC ADJUSTABLE NOZZLES AS NEEDED.
	MAINLINE: CLASS 200 PVC (18" COVER), 1-1/2" DIAMETER.
	LATERAL LINES: SCHEDULE 40 PVC (12" COVER), 1" & 3/4" DIAMETER.
	SLEEVES: SCHEDULE 40 PVC 4" DIAMETER.
	RAINBIRD 100-FEB IRRIGATION VALVES.
	RAINBIRD 3RC 3/4" QUICK COUPLER VALVE.
	RAINBIRD ESP-LXME 8 STATION CONTROLLER, 4 STATION MODULE WITH RS08X RAIN-SENSOR. IN RAINBIRD LXMM METAL LOCKING CABINET ON METAL PEDESTAL.
	ZURN-WILKINS 9690X 1" DOUBLE CHECK BACKFLOW PREVENTER.
	IRRIGATION CONNECTION AT SUPPLIED 5/8" WATER METER, WILKINS 600 PRESSURE REDUCING VALVE. ALL WITHIN JUMBO VALVE BOXES WITH LOCKING LIDS.
	VALVE STATION NUMBER.
	VALVE WATER FLOW IN GALLONS PER MINUTE.
	VALVE SIZE.

PROJECT MANAGER: BERNI KENWORTHY, PE

SIGNATURE: _____

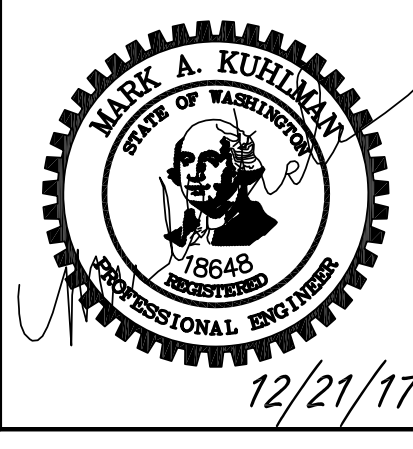
TITLE: **WASHINGTON PARK**
IRRIGATION PLAN

CLIENT: PORT OF KINGSTON
JIM PIVARNIK
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SHEET 12 OF 16
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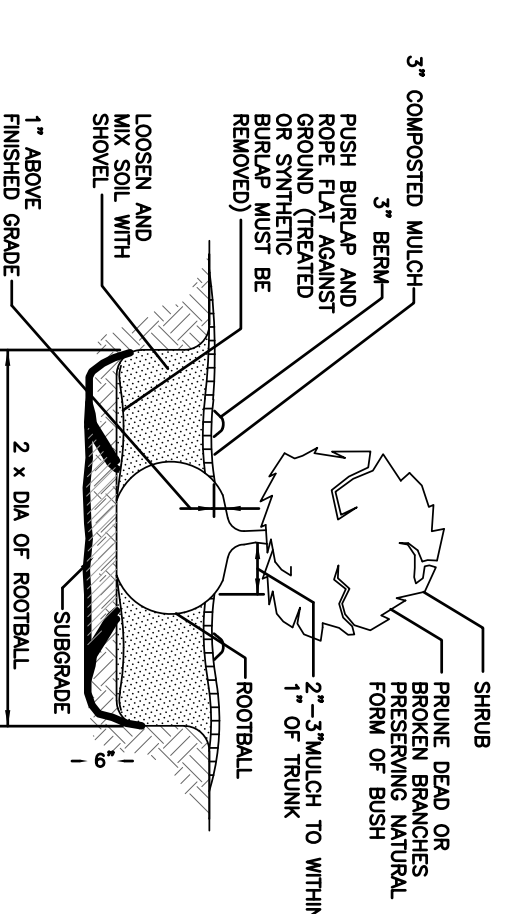
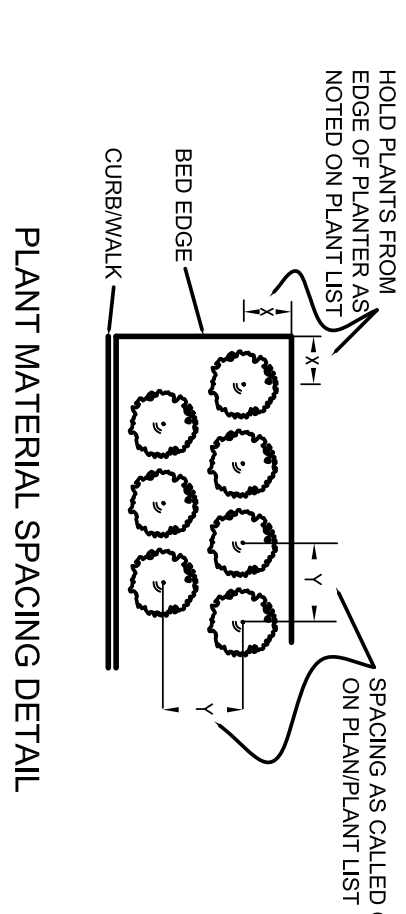
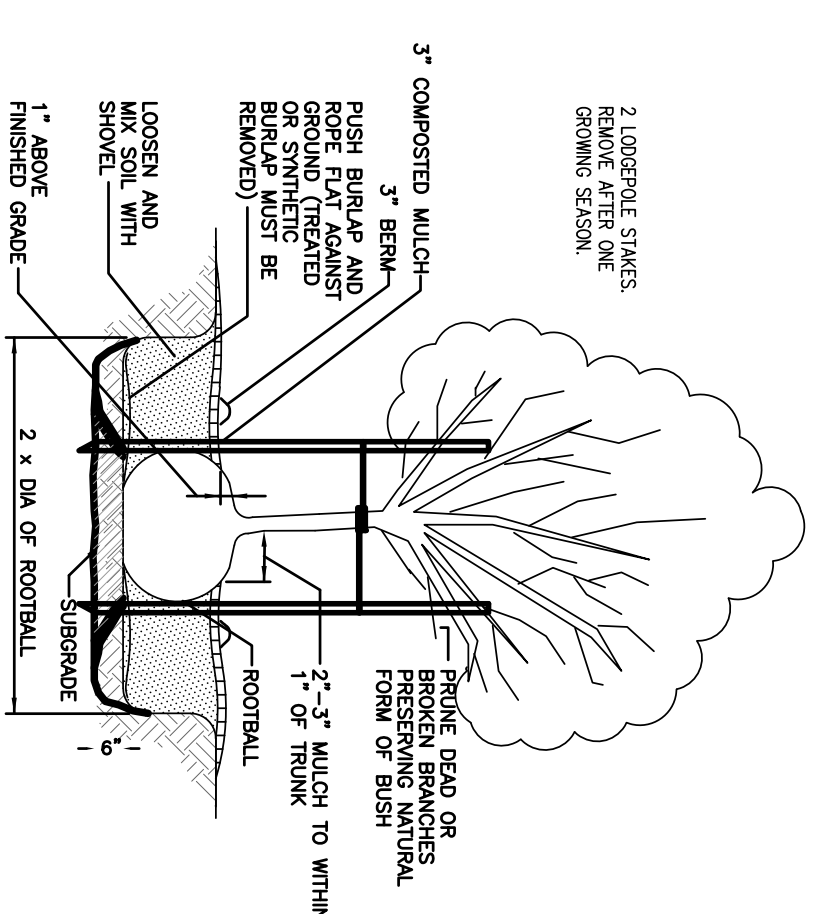
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DRAWN: JKA
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DISC NO: DATE 12/18/16
SCALE: 1" = 10'

WASHINGTON PARK

LANDSCAPING NOTES & DETAILS

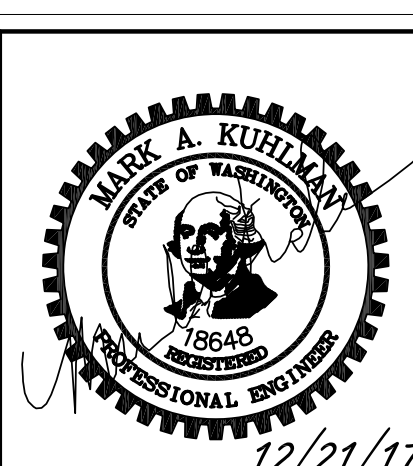
GENERAL NOTES

- A. PLANT MATERIAL
ALL PLANT MATERIAL SUPPLIED FOR THE PROJECT SHALL BE WASHINGTON GRADE NO. 1 AS PER STATE OF WASHINGTON DEPARTMENT OF AGRICULTURE ORDERS NUMBER 1229, 1230, AND 1272. PLANT MATERIAL QUALITY SIZE AND CONDITION SHALL BE DETERMINED BY STANDARDS SET FORTH IN THE AFOREMENTIONED STANDARDS AND THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARD ANSI Z602.1-1975.
 - B. PLANT PROTECTION
FOLLOWING DELIVERY OF PLANT MATERIAL CONTRACTOR SHALL PROTECT PLANTS, ROOTS, BALLS, AND TIPS AT ALL TIMES FROM INJURY IN HANDLING OR FROM SUN AND DRYING WINDS ON SITE UNTIL FINAL PLANTING. DELIVERED PLANTS NEED TO BE WELL WATERED DURING WAITING PERIOD PRIOR TO INSTALLATION.
 - C. SOILS
TILL ORGANIC MATERIAL (i.e. EMU COMPOST) INTO EXISTING SOIL. SPREAD 3-6 INCHES DEEP, TILLED TO A DEPTH OF 12 INCHES TO IMPROVE SOIL FERTILITY AND LOOSEN DIRT COMPACTED BY CONSTRUCTION ACTIVITY.
 - D. PLANTING/SPACING
PLANTING HOLES SHOULD BE APPROXIMATELY TWICE THE DIAMETER OF THE ROOTBALL AND DEEP ENOUGH TO CONTAIN ROOTBALL BUT NOT TOO DEEP TO ALLOW SETTLING. MIXING APPROX. 25% COMPOST WITH 75% NATIVE SOILS. TAMP SOIL LIGHTLY TO REMOVE AIR POCKETS AND WATER THOROUGHLY.
 - E. FERTILIZER
ALL FERTILIZER SHALL BE UNIFORM IN COMPOSITION, DRY, FREE FLOWING, AND DELIVERED TO THE SITE IN ORIGINAL, UNOPENED CONTAINERS, BARRING THE MANUFACTURERS GUARANTEED ANALYSIS RATES.
AS NEEDED BASED ON SOIL ANALYSIS.
 - F. TREE STAKING
STAKE TREES USING TWO STAKES SET PERPENDICULAR TO PREVAILING WIND AND THE LOOSELY TO TREE TRUNK LOW TO THE GROUND. REMOVE AFTER FIRST GROWING SEASON.
 - G. MULCHING
APPLY COMPOST TOPDRESSING TO ALL PLANTING BEDS 3" THICK MINIMUM IMMEDIATELEY AFTER PLANTING.
 - H. MAINTENANCE
NEW LANDSCAPING SHALL BE MAINTAINED. BEDS WEEDED, PLANT MATERIAL PRUNED AND KEPT FREE OF PESTS, AND REPLACED AS NECESSARY. RESETTING PLANTS TO PROPER GRADES THROUGH INSTALLATION AND UNTIL ACCEPTANCE OF LANDSCAPE INSTALLATION.
- ### IRRIGATION NOTES
1. SYSTEM HAS BEEN DESIGNED ASSUMING WATER PRESSURE OF BETWEEN 55-60 PSI AND A 5/8" WATER METER.
 2. ALL WORK TO BE DONE PER LOCAL CODES AND PER MANUFACTURER'S WRITTEN SPECIFICATIONS.
 3. ALL VALVES TO BE PLACED IN IRRIGATION VALVE BOXES WITH LOCKING LIDS. SET BOXES 2 INCHES HIGHER THAN FINISH GRADE TO ENSURE THEY ARE NOT BURIED. DOUBLE BOX VALVES, WITH ADDITIONAL BOX BELOW LEVEL OF VALVE, AND FILL BOTTOM WITH APPROX. 4-6" LAYER OF PEA GRAVEL TO KEEP VALVES CLEAN AND EASY TO MAINTAIN.
 4. MAINLINE PIPE TO BE BURIED 18" AND LATERALS TO BE BURIED 12". DRIP LINES AND DRIP-RINGS TO BE PLACED ON GRADE, AND BURIED BELOW MULCH LAYER (SEE DETAIL).
 5. MAIN AND LATERAL LINES AS WELL AS SPRAYER HEADS ARE DRAWN DIAGRAMMATICALLY ON PLAN. ADJUST LOCATIONS AND SPACING AS NEEDED IN THE FIELD.
 6. BACKFLOW PREVENTER TO BE TESTED BY CERTIFIED TESTER AT INSTALLATION. OWNER IS RESPONSIBLE FOR ANNUAL TESTS AFTER THE INITIAL INSPECTION.
 7. SYSTEM WILL NEED TO BE WINTERIZED TO PREVENT BREAKAGE DURING FREEZING TEMPERATURES.
 8. EACH VALVE BOX TO CONTAIN A MINIMUM OF 2 SPARE CONTRL WIRES. ROUTE SPARE WIRES FROM THE CONTROLLER TO THE LAST VALVE OF EACH MAINLINE BRANCH FOR FUTURE ADDITIONS AND/OR REPAIRS.
 9. PROVIDE OWNER WITH 2 SETS OF 'AS-BUILT' DRAWINGS AND 2 SETS OF OPERATOR'S MANUALS UPON COMPLETION. INSTRUCT OWNER AS TO PROPER OPERATION OF IRRIGATION SYSTEM, CONTROLLER PROGRAMMING, AND MAINTENANCE REQUIREMENTS.
 10. SYSTEM DESIGN IS DIAGRAMATIC. SYSTEM LAYOUT AND COMPONENTS WILL NEED TO BE FIELD VERIFIED AND ADJUSTED TO ON-SITE CONDITIONS BY INSTALLATION CONTRACTOR.



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WASHINGTON PARK
LANDSCAPING NOTES & DETAILS

TITLE

CLIENT PORT OF KINGSTON
JIM PIVARNIK
PO BOX 559
KINGSTON, WA
(360) 297-3545



PROJECT MANAGER: BERNI KENWORTHY, PE

SIGNATURE

SHEET 13 OF 16

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