File No. EA2022-135

CITY OF RICHLAND
Determination of Non-Significance

Description of Proposal: An estimated 140,000 cubic yards of combined filling and grading are proposed in preparation for expanded and new metal recycling and processing facilities (42,000 s.f. melting plant, 15,000 s.f. maintenance facility and approximately 3,000 s.f. of additions to material storage and processing facilities).

Proponent: Patrick Lundstrum
4024 S. Grove Road
Spokane, WA 99224

Location of Proposal: The site address is 3101 and 3193 Kingsgate Way, Richland, WA 99354. The project is located at SW 1/4 SEC. 16 TWN. 10 N. RNG. 28 E. W.M., City of Richland, Benton County, WA.

Lead Agency: City of Richland

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request.

( ) There is no comment for the DNS.

(**X**) This DNS is issued under WAC 197-11-340(2); the lead agency will not act on this proposal for fourteen days from the date of issuance.

( ) This DNS is issued after using the optional DNS process in WAC 197-11-355. There is no further comment period on the DNS.

Responsible Official: Mike Stevens
Position/Title: Planning Manager
Address: 625 Swift Blvd., MS #35, Richland, WA 99352 **Date:** February 16, 2023
Comments Due: March 3, 2023

Signature_____

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background

1. Name of proposed project, if applicable:

ATI Inc –Plant Expansion

2. Name of applicant:

Patrick Lundstrum, Fisher Construction Group

3. Address and phone number of applicant and contact person:

4024 S. Grove Rd, Spokane, WA 99224

4. Date checklist prepared:

December 23, 2022

5. Agency requesting checklist:

City of Richland

6. Proposed timing or schedule (including phasing, if applicable):

Project start is currently scheduled for February 2023 and run will through June of 2024

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

NO

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

See attached soils report, Archeology report and explosion report.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

None

10. List any government approvals or permits that will be needed for your proposal, if known.

Building, Right of Way, Mechanical, Electrical, Plumbing, Grading, Foundation, and associated permits for building and sitework construction

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

Building and sitework construction to expand and add facilities to an existing metal recycling and processing facility. Buildings include a melting plant of approximately 42,000 sf, a maintenance

facility of approximately 15,000 sf and small additions to a material storage and processing facility of approximately 3,000 sf.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

3101 Kingsgate Way, Richland, WA 99354

B. Environmental Elements

1. *Earth*

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____

Rolling & Flat terrain

b. What is the steepest slope on the site (approximate percent slope)?

The Slopes on the site vary from relatively flat 1%-2% in the interior of the site and 2:1 in the cut slopes along the perimeter of the site.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Generally the soils on the site can be classified as poorly graded cobbly sand.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

The purpose for the filling and grading of this project is to and two additional processing building to the current facility at ATI in Richmond. This project will result in the following grading items;

- Total affected area 18.03 acres- This total affected area includes the 7.28 acres on the project site to develop the property for the two new buildings, the other 11.75 acres is

the affected area for the fill area on the adjacent property to accept all of the excavation spoils to develop the project site.

- Total Cut =70,000 cy (project Site)
- Total Fill = 70,000 cy (project fill area)

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Some erosion could occur primarily from wind erosion of the native sands on the site

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Approximately 75% of the site will be covered with impervious surface after project construction.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

We will use water trucks to keep the native sands moist and less likely for wind erosion. Additionally, the site is graded to direct all stormwater runoff into the site, no stormwater runoff will leave the site.

2. Air

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

None

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

None

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

N/A

3. Water

a. Surface Water

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

No

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No

b. Ground Water:

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None

I

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

The stormwater runoff from this site will be collected via storm drainage pipes or drainage ditches and then directed into infiltration ponds to be infiltrated back into the ground. Now stormwater runoff will leave the site.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

No

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

N/A

4. Plants

a. Check the types of vegetation found on the site:

____deciduous tree: alder, maple, aspen, other
____evergreen tree: fir, cedar, pine, other
____shrubs
__x__grass
____pasture
____crop or grain
____ Orchards, vineyards or other permanent crops.
____ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
____water plants: water lily, eelgrass, milfoil, other
____other types of vegetation

b. What kind and amount of vegetation will be removed or altered?

Approximately 6 acres of existing landscape area will be removed.

c. List threatened and endangered species known to be on or near the site.

None

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

N/A - we are planning on protecting the existing landscape buffer on the frontage of Kingsgate Way.

e. List all noxious weeds and invasive species known to be on or near the site.

None

5. Animals

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

birds: hawk, heron, eagle, songbirds, other:
mammals: deer, bear, elk, beaver, other:
fish: bass, salmon, trout, herring, shellfish, other _____

None

b. List any threatened and endangered species known to be on or near the site.

None

c. Is the site part of a migration route? If so, explain.

No

d. Proposed measures to preserve or enhance wildlife, if any:

N/A

e. List any invasive animal species known to be on or near the site.

None

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Electric for the processing equipment
Propane for heating the buildings.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

None at this time

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal?
If so, describe.

The principle of the vacuum arc remelting (VAR) process consists in melting a consumable metallic electrode of the required grade under a high vacuum in order to produce an ingot of a desired quality. During the remelting process, the consumable electrode is connected to a low voltage, high current source. The current passes through the electrode where an arc is maintained between the electrode and the top of the secondary ingot resulting in the melting of the electrode. The metal droplets fall through the arc plasma region and gradually build up the ingot. The molten metal is cooled and solidified through its contact with the water-cooled copper crucible. At the end of the process, the new ingot is removed from the crucible. Under certain circumstances, if the electrode is not aligned appropriately, the electric arc could arc to the copper wall. Over time, this arcing will create a small hole in the crucible allowing water to enter the vacuum chamber. When this water comes into contact with high temperature molten titanium, it will flash to steam as well as react to form hydrogen gas. This creates a potential explosion hazard in this process.

1) Describe any known or possible contamination at the site from present or past uses.

None

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating

life of the project.

None

4) Describe special emergency services that might be required.

None

5) Proposed measures to reduce or control environmental health hazards, if any:

None

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Noise from construction equipment during construction 7am-5pm Monday - Friday
Noise from trucks brining raw product to the site and leaving with finished products, it should be noted that this project is located in an industrial zoned are of the City with other companies shipping and receiving products in the area so there should be no new noise impacts caused by this project.

3) Proposed measures to reduce or control noise impacts, if any:

None

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

Currently this site is an industrial site and all neighboring properties are the same so this project will not affect current land uses for the adjacent properties.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to

other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

No

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No

c. Describe any structures on the site.

Currently this is a manufacturing facility so there are multiple buildings on the site that serve different function of the manufacturing.

d. Will any structures be demolished? If so, what?

No

e. What is the current zoning classification of the site?

Light Industrial

f. What is the current comprehensive plan designation of the site?

Same as current zoning

g. If applicable, what is the current shoreline master program designation of the site?

N/A

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

No

i. Approximately how many people would reside or work in the completed project?

approximately 100 employees over two shifts

j. Approximately how many people would the completed project displace?

None

k. Proposed measures to avoid or reduce displacement impacts, if any:

N/A

L. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

N/A

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

N/A

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None

c. Proposed measures to reduce or control housing impacts, if any:

N/A

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

75', Metal Building Siding and Construction with some concrete walls

b. What views in the immediate vicinity would be altered or obstructed?

None

b. Proposed measures to reduce or control aesthetic impacts, if any:

N/A

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None this project is currently located behind the existing facility.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No

c. What existing off-site sources of light or glare may affect your proposal?

None

d. Proposed measures to reduce or control light and glare impacts, if any:

None

12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

No

b. Would the proposed project displace any existing recreational uses? If so, describe.

No

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None

13. Historic and cultural preservation

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers ? If so, specifically describe.

No

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

No

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

An Archaeological survey has been performed on this site, see attachment.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

N/A

14. Transportation

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

This site fronts Kingsgate Way which is currently an industrial road.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

No

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

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d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

NO

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates?

Not known at this time

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No

h. Proposed measures to reduce or control transportation impacts, if any:

None

15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No

b. Proposed measures to reduce or control direct impacts on public services, if any.

None

16. Utilities

a. Circle utilities currently available at the site:
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other _____

Electric, Water, Sanitary Sewer, Natural Gas

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

Electric, Water, Sanitary Sewer

C. Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: ___*Travis Moxley*_

Name of signee _____Travis Moxley_____

Position and Agency/Organization __Manager, Operations ATI Richland Operations_

Date Submitted: _____12/23/2022_____

ATI RICHLAND

CIVIL SITE IMPROVEMENTS PLANS

OWNER

OREGON METALURGICAL CORP
PO BOX 460
ALBANY, OR 97321
PHONE:

CONTRACTOR

FISHER CONSTRUCTION GROUP
4024 S. GROVE RD.
SPOKANE, WA 99224
PHONE: 360.757.4094

ARCHITECT

FISHER CONSTRUCTION GROUP
625 FISHER LANE
BURLINGTON, WA 98233
PHONE: 360.757.4094

CIVIL ENGINEER

FISHER CONSTRUCTION GROUP
625 FISHER LANE
BURLINGTON, WA 98233
PHONE: 360.757.409 4

PROPERTY INFORMATION

PROPERTY ID: 44869

PARCEL # / GEO ID: 116083000001003

ZONING: M-2 INDUSTRIAL USE

PROPERTY ADDRESS: 3101 KINGSGATE WAY
RICHLAND, WA 99352

PROPERTY DESCRIPTON

REAL PROPERTY SITUATED IN THE SOUTHWEST QUARTER OF SECTION 16, TOWNSHIP 10 NORTH, RANGE 28 EAST, W.M., CITY OF RICHLAND, BENTON COUNTY, WASHINGTON DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTH ONE QUARTER CORNER OF SAID SECTION 16; THENCE S 89°25'06" W ALONG THE SOUTH LINE THEROF, 188.42 FEET TO THE CENTERLINE OF KINGSGATE WAY; THENCE N 00°00'00" W ALONG SAID CENTERLINE, 899.82 FEET; THENCE N 90°00'00" W 40.00 FEET TO THE WESTERLY MARGIN OF KINGSGATE WAY AND THE SOUTHEAST CORNER OF TRACT "D" AS SHOWN ON RECORD OF SURVEY, RECORDED IN VOLUME 1 OF SURVEYS, PAGE 2284, RECORDS OF BENTON COUNTY, WASHIINGTON; SAID POINT BEING THE TRUE POINT OF BEGINNING; THENCE N 89°43'34" W ALONG THE SOUTH LINE OF SAID TRACT "D", 1089.00 FEET TO THE SOUTHWEST CORNER OF SAID TRACT "D"; THENCE S 00°00'00" E PARALLEL WITH THE CENTERLINE OF KINGSGATE WAY, 876.49 FEET TO THE NORTHERLY MARGIN OF PROPOSED BATTELLE BOULEVARD; SAID MARGIN BEING 40.00 FEET NORTHERLY OF (WHEN MEASURED AT RIGHT ANGLES) AND PARALLEL WITH THE SOUTH LINE OF SAID SOUTHWEST QUARTER; THENCE NORTH 89°25'06" EAST, ALONG SAID NORTHERLY MARGIN, 1039.55 FEET TO A POINT OF CURVE CONCAVE TO THE NORTHWEST HAVING A RADIUS OF 50.00 FEET; THENCE NORTHEASTERLY, 78.03 FEET ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 89°25'06" TO A POINT OF TANGENCY ON THE WESTERLY MARGIN OF KINGSGATE WAY AFOREMENTIONED; THENCE N 00°00'00" E, ALONG SAID MARGIN 810.73 FEET TO THE TRUE POINT OF BEGINNING.

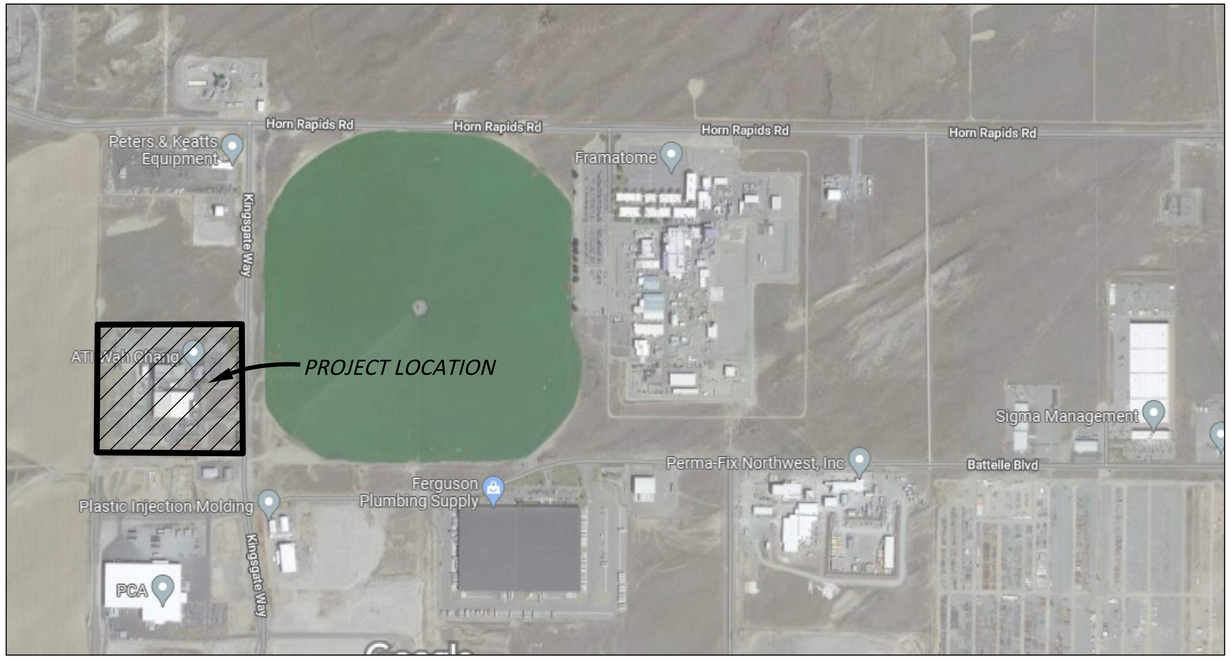
TOGETHER WITH THE SOUTH 132.14 FEET OF SAID TRACT "D" RECORDED IN VOLUME 1 OF SURVEYS PAGE 2284, RECORDS OF BENTON COUNTY, WASHINGTON.

CONTAINS 25 ACRES AND SUBJECT TO AN EASEMENT FOR SLOPE AND UTILITIES ALONG THE EASTERLY 35.00 FEET AS RECORDED UNDER A.F. #97-3366.

TOGETHER WITH AND SUBJECT TO EASEMENTS, RESERVATIONS, COVENANTS AND RESTRICTIONS, OF RECORD AND IN VIEW.

CITY OF RICHLAND STANDARD NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMCNCE WITH THE LATEST REVISION OF THE CITY OF RICHLAND STANDARD SPECIFICATIONS AND DETAILS AND THE CURRENT EDITION OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION. PLEASE CONFIRM THAT YOU HAVE THE LATEST SET OF STANDARD SPECS AND DETAILS BY VISITING THE CITY'S WEB PAGE.
2. ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, UTILITY EASEMENT, OR INVOLVING THE CONSTRUCTION OF PUBLIC INFRASTRUCTURE WILL REQUIRE THE APPLICANT TO OBTAIN A RIGHT-OF-WAY PERMIT PRIOR TO CONSTRUCTION. A PLAN REVIEW AND INSPECTION FEE IN THE AMOUNT EQUAL TO 5% OF THE CONSTRUCTION COSTS OF THE WORK THAT WILL BE ACCEPTED AS PUBLIC INFRASTRUCTURE OR IS WITHIN THE RIGHT-OF-WAY OR EASEMENT WILL BE COLLECTED AT THE TIME THE PERMIT IS ISSUED. A STAMPED, ITEMIZED ENGINEERS ESTIMATE (OPINION OF PROBABLE COST) SHALL BE USED TO CALCULATE THE 5% FEE.
3. ONCE THE PLANS HAVE BEEN ACCEPTED BY THIS DEPARTMENT, A PRE--CONSTRUCTION CONFERENCE WILL BE REQUIRED PRIOR TO THE START OF ANY WORK Within THE PUBLIC RIGHT-OF-WAY OR EASEMENT. CONTACT THE PUBLIC WORKS ENGINEERING DIVISION AT 942--7500 OR 942--7742 TO SCHEDULE A PRE--CONSTRUCTION CONFERENCE.
4. WHEN THE CONSTRUCTION IS SUBSTANTIALLY COMPLETE A PAPER SEI OF "RECORD DRAWINGS" SHALL BE PREPARED BY A LICENSED SURVEYOR AND INCLUDE ALL CHANGES AND DEVIATIONS. PLEASE REFERENCE THE PUBLIC WORKS DOCUMENT "RECORD DRAWING REQUIREMENTS & PROCEDURES" FOR A COMPLETE DESCRIPTION OF THE RECORD DRAWING PROCESS. AFTER APPROVAL BY THE CITY OF THE PAPER COPY, A MYLAR COPY OF THE RECORD DRAWINGS SHALL BE SUBMITTED ALONG WITH A CAD COPY OF THEM.
5. NO WORK ON THIS PROJECT SHALL COMMENCE UNTIL A CITY OF RICHLAND RIGHT-OF-WAY CONSTRUCTION PERMIT HAS BEEN ISSUED.
6. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS."
7. THE CONTRACTOR AND ALL SUB--CONTRACTORS SHALL BE LICENSED BE THE STATE OF WASHINGTON AND BE BONDED TO DO WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL PROVIDE THE CITY A CERTIFICATE OE INSURANCE PRIOR TO ISSUANCE OF THE RIGHT-OF-WAY CONSTRUCTION PERMIT. THE MINIMUM COVERAGES SHALL COMPLY WITH THE CITY'S INSURANCE REQUIREMENTS.
8. THE CONTRACTOR AND ALL SUB--CONTRACTORS SHALL HAVE A CURRENT CITY OF RICHLAND BUSINESS LICENSE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CONSTRUCTION DEFICIENCIES FOR A PERIOD OF ONE-YEAR FROM THE DATE OF ACCEPTANCE BY THE CITY OF RICHLAND.
10. THE CONTRACTOR SHALL BE REQUIRED TO CALL 1-800-424-5555 OR "811" A MINIMUM OF TWO WORKING DAYS PRIOR TO COMMENCING ANY EXCAVATION ACTIVITIES TO DETERMINE FIELD LOCATIONS OF ALL UNDERGROUND UTILITIES.
11. ANY CHANGES OR MODIFICATIONS TO THE PROJECT PLANS SHALL FIRST BE APPROVED BY THE CITY ENGINEER OR HIS REPRESENTATIVE.
12. THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED WITH THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.



VICINITY MAP

13. THE FACE OF CURB SHALL BE STAMPED AT ALL UTILITY CROSSINGS, MAIN LINES AND SERVICE LINES AS FOLLOWS:

"S" - SANITARY SEWER "I" - IRRIGATION "G" - GAS
"W" - WATER "C" - CONDUITS "D" - STORM DRAIN

14. ALL FIRE HYDRANTS AND GUARD POSTS SHALL BE PAINTED OSHA SAFETY YELLOW, QUICKSET ENAMEL N0. 5472 HYDRANT YELLOW AS MANUFACTURED BY FARWEST PAINT MANUFACTURING COMPANY OR APPROVED EQUAL.
15. FIRE HYDRANTS AND STREET LIGHTS SHALL BE INSTALLED AT 2--FEET BEHIND THE BACK OF SIDEWALK TO THE FACE OF EQUIPMENT WHERE THE SIDEWALK IS ADJACENT TO THE CURB AND 6--FEET BEHIND THE BACK OF CURB WHERE THE SIDEWALK IS NOT ADJACENT TO THE CURB UNLESS OTHER WISE NOTED ON THE PLANS.
16. ANY DAMAGED OR BADLY DETERIORATED CONCRETE CURB, GUTTER AND SIDESWALK WITHIN PUBLIC RIGHT -OF- WAY SHALL BE REMOVED AND REPLACED. THIS INCLUDES ANY CURB DAMAGED BY CONSTRUCTION EQUIPMENT DURING THE PROJECT.
17. 2-INCHES OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED BENEATH ALL SIDEWALKS PRIOR TO PLACEMENT OF CONCRETE.
18. ALL STORM DRAINAGE MANHOLES WITH A GRATED LID SHALL BE CONSTRUCTED WITH A" SUMP" IN THE BOTTOM OF THEM, AND ALL STORM MANHOLES WITH SOLID LIDS SHALL HAVE CHANNELED BASES, IN ACCORDANCE WITH THE STANDARD DETAILS.
19. IRRIGATION VALVE BOXES OR LIDS WITHIN THE ROADWAY OR PUBLIC RIGHT-OF-WAY NEED T0 BE PER CITY OF RICHLAND SPEC:" RICH 931" CAST IRON LID SHALL HAVE "IRR" CAST INTO TOP.
20. A MINIMUM HORIZONTAL SEPARATION OF TEN FEET SHALL BE MAINTAINED BETWBEEN WATER MAINS AND SEWER MAINS AND SERVICE LINES. WATER MAINS SHOULD CROSS OVER THE TOP OF SEWER MAINS WITH A MINIMUM VERTICAL SEPARATION OF 18-INCHES. ANY CROSSING WITH A VERTICAL SEPARATION OF LESS THAN 18 ' OR ANY CROSSING IN WHICH THE WATER MAIN CROSSES BELOW THE SEWER MAIN SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF ECOLOGY STANDARDS. PRESSURIZED SEWER MAINS SHALL NOT CROSS OVER POTABLE WATER MAINS IN ANY CASE. IF A MINIMUM VERTICAL SEPARATION OF 12" CANNOT BE MAINTAINED BETWEEN MAINLINE PIPES, CDF OR CONCRETE SHALL BE USED AS BACKFILL IN PLACE OF NATIVE SOILS OR GRAVEL.
21. THE CONTRACTOR SHALL TAKE ANY NECESSARY MEANS TO KEEP FROM TRACKING MUD AND DEBRIS OUT ONTO THE EXISTING STREETS AND SHALL ALSO KEEP MUD AND ANY OTHER DEBRIS FROM HIS SITE FROM ENTERING THE EXISTING PUBLIC STORM DRAINAGE SYSTEM.
22. THE CONTRACTOR SHALL SUPPLY A DUST CONTROL PLAN PRIOR TO STARTING WORK IN ACCORDANCE WTH RMC CHAPTER 9.16.046, SECTION J.
23. ALL DISTURBED AREAS SHALL BE HYDRO-SEEDED AT THE COMPLETION OF THE PROJECT.
24. THE CONTRACTOR SHALL TAKE CARE TO PREVENT CONSTRUCTION SITE RUNOFF FROM THE ENTERING INTO THE CITY'S STORMWATER SYSTEM, IN ACCORDANCE WITH RMC CHAPTER 16.05. CONSTRUCTION MATERIALS THAT MAY INTRODUCE SEDIMENT INTO THE STORMWATER SYSTEM MAY NOT BE STOCKPILED IN THE STREET. SUCH MATERIALS MAY INCLUDE BUT NOT BE LIMITED TOO CONSTRUCTION MATERIALS, SOIL, SAND, GRAVELS, ETC.

SHEET INDEX

To be included with the full building permit submittal

PARKING REQUIREMENTS

EXISTING INDUSTRIAL FACILITY PARKING

TOTAL EMPLOYEES (LARGEST SHIFT): 85
REQUIRED SPACES

(1 PER EMPLOYEE):	85
EXISTING SPACES PROVIDED:	76
NEW SPACES PROVIDED:	17
REQUIRED EV SPACES:	2
EXISTING EV SPACES PROVIDED:	1
NEW EV SPACE TO PROVIDE:	1

3101 Kingsgate Way

22-02978

FISHER CONSTRUCTION GROUP
Design > Build > Equip > Perform
www.fishergi.com
625 FISHER LANE, BURLINGTON, WA 98233

ROBERT BADGETT, PE CIUL ENGINEER
IN CONSULTATION WITH
FISHER CONSTRUCTION GROUP, INC.
ROBERT K. BADGETT STATE OF WASHINGTON 57539 REGISTERED PROFESSIONAL ENGINEER

ASI	DATE	NO.	REVISIONS

DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REQ'D)
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:

DWG. NO. REFERENCE DRAWING

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TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
1PL ±0.05 | 3PL ±0.005 | FRACTION ± 1/16
2PL ±0.010 | 4PL ±0.0005 | ANGLE ± 1/2°

SPECIAL SIGNATURES

DEPT. NO. | LOCATION
DEPT. NAME
PROJECT NO.
APPROVED BY
DEPT.
DESIGNER
OPERATION ENG.
PROJECT ENG.
PLANT ENG.

ATI Richland Operations
3101 Kingsgate Way
Richland, WA 99354

COVER / INDEX SHEET

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE: CIVIL	DWG. NO.: C001	REV.: 0
CHK'D BY: RKB			

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE WDOT STANDARDS SPECIFICATIONS FOR CONSTRUCITON AND THE STANDARDS AND THE CITY OF RICHLAND HAVING JURISDICTION OVER THIS PROJECT.
2. PRIOR TO DIGGING VERIFY LOCATION AND DEPTH OF UTILITIES AND ANY OTHER UNDERGROUND INTERFERENCE. CALL TWO BUSINESS DAYS BEFORE YOU DIG AT 811.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF SITE CONDITIONS, INSTALLATION STANDARDS AND CONSTRUCTION CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO SHOP FABRICATION AND/OR FIELD ERECTION. DISCREPANCIES BETWEEN SITE CONDITIONS AND THE CONSTRUCTION DRAWINGS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. WORK DONE WITHOUT THE ENGINEERS APPROVAL IS THE RESPONSIBILITY OF THE CONTRACTOR. LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT OCCUR TO EXISTING UTILITIES.
4. CONTRACTOR IS TO PROVIDE A METHOD OF CONSTRUCTION WHICH WILL ALLOW FOR OWNER TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION WITH AS LITTLE DISRUPTION AS POSSIBLE.
5. CONTRACTOR IS TO PROVIDE A METHOD OF CONSTRUCTION OF OFF--SITE WORK THAT WILL ALLOW MINIMAL DISTURBANCE TO TRAFFIC FLOWS ON PUBLIC AND PRIVATE WAYS.
6. ALL SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY HIRED BY THE CONTREACTOR. CONTRACTOR TO COORDINATE WITH INSPECTION AND TESTING AGENCY FOR REQUIRED CONSTRUCTION INSPECTIONS AND MATERIAL TESTING.
7. HANDICAPPED SIGNS, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH THE 2010 ISSUE OF THE OREGON STATE RULES AND REGULATIONS IN CHAPTER 11 OF THE OREGON STRUCTURAL SPECIALTY CODE.

EARTHWORK

1. ALL FILL OR BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557 FOR COHESIVE SOILS, OR 75 OF RELATIVE DENSITY IN ACCORDANCE WITH ASTM D44254 FOR COHESIONLESS SOILS.
2. REMOVE ALL DEBRIS FROM THE AREA TO BE BACKFILLED PRIOR TO BACKFILLING.
3. PLACE LOAD BEARING BACKFILL IN LAYERS NOT MORE THAN 8" THICK, LOOSE MEASUREMENT. SPREAD AND COMPACT EACH LAYER UNIFORMLY TO THE REQUIRED DENSITY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE IN KIND ANY UTILITIES AND OR IRRIGATION PIPING DISTURBED AND OR DAMAGED DURING THE WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE SOD AND LANDSCAPE FEATURES REMOVED OR DAMAGED DURING THE WORK.

CONTRACTOR TO REFER TO THE GEOTECHNICAL REPORT BY SHANNON AND WILSON

SITE UTILITIES

1. A PRE-- CONSTRUCTION CONFERENCE SHALL BE SCHEDULED WITH THE CONTRACTOR, ENGINEER, ARCHITECT, CITY PERSONNEL, AND ANY AFFECTED UTILITIES PRIOR TO START OF UTILITY WORK.
2. MAINTAIN A MINIMUM OF 5' HORIZONTAL SEPARATION OF WATER LINE FROM BURIED POWER LINES. MAINTAIN 1' HORIZONTAL SEPARATION OF GAS LINES FROM BURIED POWER LINES.
3. FOR BUILDING SERVICES MAINTAIN A MINIMUM OF 1' HORIZONTAL AND VERTICAL SEPARATION OF WATER SERVICE AND SANITARY SEWER SERVICE LINES. WATER SERVICE SHALL BE PLACED ABOVE SANITARY SEWER SERVICE.
4. MAINTAIN A MINIMUM OF 10' HORIZONTAL AND 1.5' VERTICAL SEPARATION OF WATER AND SANITARY SEWER MAIN LINES. WATER MAINS SHALL BE PLACED ABOVE SANITARY SEWER MAIN.
5. POLYVINYL CHLORIDE (PVC) WATER PIPE SHALL BE CLASS 235 DR18. PIPE SHALL BE PUSH ON JOINTS CONFORMING TO ASTM D1784 CLASS 1 2454. PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C900. THE PIPE SHALL HAVE FLEXIBLE RUBBER GASKETED JOINTS.
6. DUCTILE IRON (DI) WATER PIPE SHALL BE CLASS 50, UNLESS NOTED OTHERWISE. PIPE SHALL BE CEMENT MORTAR LINED PER AWWA C104. PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C1 51 WITH AN ASPHALTIC COATING.
7. FIRE LINES SHALL BE DUCTILE IRON, CLASS 50 OR PVC, CLASS 235 DR 18.
8. PIPE FITTINGS FOR PVC AND DI PIPE SHALL BE MORTAR LINED CAST OR DUCTILE IRON AND SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C1 10 OR C153. FITTING CLASS AND JOINTS SHALL BE COMPATIBLE TO CONNECTING PIPE.
9. COPPER WATER SERVICE LINE SHALL BE SEAMLESS SOFT TYPE K CONFORMING TO ASTM B88.
10. POLYETHYLENE TUBING (PE) WATER SERVICE LINE SHALL BE RATED AT 200 PSI WITH COPPER TUBING OUTSIDE DIAMETER AND SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM D2737.
11. GATE VALVES 2" TO 8" SHALL CONFORM TO AWWA C515. VALVES SHALL BE DESIGNED FOR A MINIMUM OF 200 PSI, WITH IRON BODY, RESILIENT WEDGES, NRS 2" SQUARE WRENCH NUT WITH O--RING SEALS AND SHALL OPEN WHEN THE STEM IS ROTATED COUNTERCLOCKWISE. APPROVED VALVE MANUFACTURES ARE CLOW, KENNEDY, MUELLER, MAH, WATEROUS OR UTILITY DEPARTMENT APPROVED EQUAL.
12. VALVE BOXES SHALL BE ADJUSTABLE CAST IRON SLIDING TYPE. VALVE BOXES SHALL BE IN ACCORDANCE WITH AWWA C600, SECTION 10.3. VALVE BOXES SHALL BE TYLER DOMESTIC §6855 OR UTILITY DEPARTMENT APPROVED EQUAL.
13. FIRE HYDRANTS SHALL CONFORM TO AWWA C502. HYDRANTS SHALL HAVE 5 1/4"MAIN OPERATING VALVE WITH TWO 2 1/2" NST NOZZLES AND ONE 4 NST PUMPER NOZZLE. HYDRANT OPERATING NUT SHALL BE A 1 1/2" PENTAGON. FIRE HYDRANTS SHALL BE MUELLER CENTURION, MAH RELIANT, OR CLOW 2500. HYDRANTS SHALL HAVE A MINIMUM BURY DEPTH OF 48"AND SHALL BE PAINTED SAFETY YELLOW.
14. CONCRETE FOR THRUST BLOCKS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
15. SANITARY SEWER LINES SHALL BE PLACED WITH A CONSISTENT SLOPE OF 2 PERCENT OR MORE WITH AT LEAST 12" OF COVER, UNLESS NOTED OTHERWISE
16. SANITARY SEWER PIPE SHALL BE PVC MANUFACTURED TO ASTM D3034-- SDR 35 WITH RUBBER GASKETED JOINTS
17. STORM DRAINAGE PIPE SHALL BE PVC OR CORRUGATED POLYETHYLENE (PE). PVC PIPE SHALL BE MANUFACTURED TO ASTM D3034-- SDR 35 WITH RUBBER GASKETED JOINTS. PE PIPE SHALL BE MANUFACTURED TO ASTM F405 AND/OR F667 WITH SMOOTH INTERIOR AND WATERTIGHT JOINTS
18. PERFORATED STORM DRAINAGE PIPE SHALL BE CORRUGATED POLYETHYLENE (PE) TUBING AND FITTINGS WITH SMOOTH INTERIOR MANUFACTURED TO ASHTO M--252 AND M--294.
19. ALL BEDDING AND BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557. REMOVE ALL DEBRIS FROM THE AREA TO BE BACK FILLED PRIOR TO BACKFILLING. PLACE BACKFILL IN LAYERS NOT MORE THAN 12" THICK, LOOSE MEASUREMENT. SPREAD AND COMPACT EACH LAYER UNIFORMILY TO THE REQUIRED DENSITY.
20. CONTRACTOR'S SURVEYOR TO SUBMIT SURVEYED AS BUILTS FOR THE WATER MAIN LINE, FIRE HYDRANTS AS WELL AS LEGAL DESCRIPTIONS REQUIRED TO RECORD NEW WATER EASEMENT BENEFITING THE CITY. CONTRACTOR'S SURVEYOR TO PREPARE LEGAL DESCRIPTION FOR MAIN POWER TO TRANSFORMER TO BE RECORDED BY UTILITY PRIOR TO COMMENCEMENT OF ANY UTILITY WORK.

ASPHALT PAVEMENT

1. PRIOR TO BEGINNING WORK, CONTACT THE OWNER/CITY OR COUNTY OFFICIAL TO COORDINATE TRAFFIC FLOW, WORK SCHEDULES AND UTILITY INTERFACES.
2. PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE 2008 EDITION OF THE ODOT STANDARD SPECIFICATIONS. CONTRACTOR SHALL USE SOLVENT-- BORNE, READY-- MIXED TRAFFIC PAINT MEETING AASHTO M248 STANDARDS. PREPARE THE SURFACES, APPLY THE PAINT, AND BE WITHIN THE TOLERANCES AS SPECIFIED IN THE ODOT STANDARD SPECIFICATIONS.
3. WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT SHALL BE CUT TO A VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS--1. THE NEW ASPHALT SHALL BE FEATHERED BACK OVER THE EXISTING TO SEAL THE JOINT.
4. ASPHALT PAVING MATERIALS AND CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH SECTION 00745 HOT MIXED ASPHALT CONCRETE, OF THE 2008 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION. HMAC SHALL BE LEVEL 2,1/2" DENSE PG 64--28.
5. ALL ASPHALT AND BASE THICKNESSESS NOTED ARE COMPACTED THICKNESES.

FOUNDATIONS

1. FOR SLAB ON GRADE AND FOUNDATION SUBGRADE PREPARATION THE CONTRACTOR SHALL REFERENCE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERS SOILS REPORT.
2. SEE STRUCTURAL DRAWINGS FOR FOUNDATION EXCAVATION REQUIREMENTS. UNLESS NOTED OTHERWISE EXCAVATE FOOTING TRENCHES AND AREA BELOW SLABS TO BOTTOM OF GRAVEL BASE OR FOOTING. COMPACT THE TOP 1 '-0 OF SUBGRADE TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D--1557.

CONCRETE

1. CONCRETE FOR WALKS, CURBS AND GUTTERS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS.
2. REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED. FABRICATE REINFORCEMENT PER ACI 318--02, CLASS "B" SPLICES UNLESS NOTED OTHERWISE.
3. WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A 185.
4. TOOL ALL EXPOSED EDGES WITH A CONCAVE TOOLING DEVICE.
5. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 305 OR 306 FOR HOT AND COLD WEATHER CONCRETING.
6. TOLERANCES FOR CONCRETE CONSTRUCTION SHALL BE BASED ON A 1 0'--0 STRAIGHT EDGE. GRADE MORE THAN 1/4"

EROSION CONTROL

1. PROVIDE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE ODOT STANDARD SPECIFICATIONS AND ROADWAY DRAWINGS TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS ACCORDING TO REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
2. ESTABLISH CONSTRUCTION ACCESS.

A. CONSTRUCTION VEHICLE ACCESS AND EXIT SHALL BE LIMITED TO ONLY NECESSARY LOCATIONS AND SHALL BE IN ACCORDANCE WITH ODOT STANDARD ROADWAY DRAWING RD1000. ACCESS POINTS SHALL BE STABILIZED WITH QUARRY SPALL OR CRUSHED ROCK TO MINIMIZE THE TRACKING OF SEDIMENT ONTO PUBLIC ROADS.

B. WHEEL WASH OR TIRE BATHS SHOULD BE LOCATED ON--SITE, IF NEEDED TO PREVENT EXCESSIVE TRACKING OF SEDIMENT ON ROADS AND SHALL BE IN ACCORDANCE WITH ODOT STANDARD ROADWAY DRAWING RD1060.

C. PUBLIC ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.

D. STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON--SITE, OR OTHERWISE BE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO STATE SURFACE WATERS.

E. A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:

I. GRAB TENSILE STRENGTH (ASTM D4751) 200 PSI MINIMUM.

II. GRAB TENSILE ELONGATION (ASTM D4632) 30% MAXIMUM.

III. MULLEN BURST STRENGTH (ASTM D3786-- 80A) 400 PSI MINIMUM.

IV. AOS (ASTM D4751) 20 TO 45 (US STANDARD SIEVE SIZE)

F. CONSIDER EARLY INSTALLATION OF THE FIRST LIFT OF ASPHALT IN AREAS THAT WILL BE PAVED; THIS CAN BE USED AS A STABILIZED ENTRANCE. ALSO CONSIDER THE INSTALLATION OF EXCESS CONCRETE AS A STABILIZED ENTRANCE. DURING LARGE CONCRETE POURS, EXCESS CONCRETE IS OFTEN AVAILABLE FOR THIS PURPOSE.

G. WHENEVER POSSIBLE, THE ENTRANCE SHALL BE CONSTRUCTED ON A FIRM, COMPACTED SUBGRADE. THIS CAN SUBSTANTIALLY INCREASE THE EFFECTIVENESS OF THE PAD AND REDUCE THE NEED FOR MAINTENANCE.

H. QUARRY SPALLS SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.

I. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH.

J. ANY QUARRY SPALLS THAT ARE LOOSENED FROM THE PAD, WHICH END UP ON THE ROADWAY, SHALL BE REMOVED IMMEDIATELY.

K. UNTIL PROJECT COMPLETION AND SITE STABILIZATION, ALL CONSTRUCTION ACCESSES INTENDED AS PERMANENT ACCESS FOR MAINTENANCE SHALL BE PERMANENTLY STABILIZED.

3. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SILT FENCING IN ACCORDANCE WITH ODOT STANDARD ROADWAY DRAWING RD1040 TO PREVENT ANY WATER RUNOFF FROM ANY DISTURBED AREAS. AT A MINIMUM, SILT FENCE WILL BE ALONG THE DOWN SLOPE PROPERTY LINES. THE SILT FENCES SHALL BE CONSTRUCTED IN THE AREAS OF CLEARING, GRADING, OR DRAINAGE PRIOR TO STARTING THOSE ACTIVITIES. THE SILT FENCE SHALL PREVENT SOIL CARRIED BY RUNOFF WATER FROM GOING BENEATH, THROUGH, OR OVER THE TOP OF THE SILT FENCE, BUT SHALL ALLOW THE WATER TO PASS THROUGH THE FENCE.
4. INSPECT, REPAIR, AND MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION UNTIL PERMANENT VEGETATION HAS BEENN ESTABLISHED.
5. REMOVE EROSION AND SEDIMENTATION CONTROLS ONCE THEY ARE NO LONGER NEEDED AND RESTORE AND STABILIZE AREAS DISTURBED DURING REMOVAL.
6. ALL CONSTRUCTION SITE THAT WILL DISTRURB OVER 1-ACRE OF EXISTING GROUND WILL HAVE TO PREPARE A ESCP PER THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALTINTY AND APPLY FOR EITHER A 1200C OR 1200CN PERMIT PRIOR TO PERFORMING ANDY EARTH DISTRUBING ACTIVITIES.

SPECIAL INSPECTION

1. PER IBC 1704.7, PRIOR TO PLACEMENT OF PREPARED FILL, THE SPECIAL INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT.
2. PER IBC 1704.7, WHERE LOAD BEARING FILL EXCEEDS 12" IN DEPTH, THE SPECIAL INSPECTOR SHALL HAVE CONTINUOUS INSPECTION OF FILL PLACEMENT AND COMPACTION.
3. TESTING AGENCY WILL TEST COMPACTION OF SOILS IN PLACE ACCORDING TO ASTM D 1557, ASTM D 2167, ASTM D 2922, AND ASTM D 2937, AS APPLICABLE. TESTS WILL BE PERFORMED AT THE FOLLOWING LOCATIONS AND FREQUENCIES:

   A. FOUNDATION, PAVING, AND ADJACENT: AT SUBGRADE AND AT EACH COMPACTED FILL AND BACKFILL LAYER, AT LEAST 3 TESTS FOR EVERY 5,000 SQ. FT. OR LESS OF PAVED AREA OR BUILDING SLAB.

   B. TRENCH BACKFILL: AT EACH COMPACTED INITIAL AND FINAL BACKFILL LAYER, AT LEAST 3 TESTS FOR EACH 150 FEET OR LESS OF TRENCH LENGTH.

4. COMPACTION TESTING IS REQUIRED AT THE ABOVE SCHEDULE UNLESS GREATER TESTING IS RECOMMENDED BY STRUCTURAL DRAWINGS. LESS TESTING WOULD BE ACCEPTABLE IF APPROVED IN WRITING BY GEOTECHNICAL ENGINEER, SPECIAL INSPECTOR, FOUNDATION ENGINEER, AND ENGINEER OF RECORD.

STORMWATER SYSTEM OPERATION AND MAINTENANCE

1. CATCH BASINS

   A. REMOVE SEDIMENT, TRASH AND DEBRIS WHEN GRATE BECOMES CLOGGED MORE THAN 10%.

   B. REMOVE SEDIMENT, TRASH AND DEBRIS IN SUMP THAT EXCEEDS 60% OF SUMP DEPTH AS MEASURED FROM BOTTOM OF BASIN TO INVERT OF LOWEST PIPE, BUT IN NO CASE SHAL THE CLEARANCE FROM TOP OF DEBRIS TO INVERT OF LOWEST PIPE BE LESS THAN 6". NO VEGETATION SHALL BE ALLOWED TO GROW IN SUMP. AT A MINIMUM, REMOVED SEDIMENT, TRASH AND DEBRIS IN SUMP ANNUALLY.

   C. STRUCTURAL DAMAGE TO FRAME, GRATE, TOP SLAB, OR SUMP, SHALL BE REPAIRED OR REPLACED. STRUCTURAL DAMAGE INCLUDES CRACKS GREATER THAN 1/4" OR HOLES GREATER THAN 2" IN TOP SLAB, FRAME NOT SITTING FLUSH ON TOP SLAB (MORE THAN 3/4" SEPARATION) OR NOT SECURELY ATTACHED, CRACKS GREATER THAN 1/4" IN SUMP WALLS, SOIL ENTERING SUMP, CRACKS AT GROUT FILLET AROUND PIPES IN EXCESS OF 1/2", SETTLEMENT OF ENTIRE BASIN SUCH THAT IT CREATES AS SAFETY, FUNCTION OR DESIGN PROBLEM.

   D. REPLACE AN MISSING GRATE OR REPAIR IF GRATE IS DIFFICULT TO REMOVE. REPLACE GRATE IF OPENINGS GREATER THAN 7/8" OR GREATER HAS MISSING OR BROKEN BARS.

2. INFILTRATION BASINS

   A. REMOVE TRASH AND DEBRIS AT LEAST 2 TIMES PER YEAR AND WHEN ACCUMULATION EXCEEDS 1 CUBIC FOOT PER 1000 SQUARE FEET OF POND.

   B. REMOVE SEDIMENT ACCUMULATION IN POND IN EXCESS OF 2" AND AT LEAST ONCE PER YEAR.

   C. IF EROSION OR SETTLEMENT OF BOND SIDE SLOPES OCCURS, REPAIR TO MATCH ORIGINAL DESIGN CONDITIONS. IF POND SIDE SLOPES CONTINUE TO SETTLE, CONSULT A REGISTERED ENGINEER SINCE THIS COULD INDICATE A SEVER UNDERLYING PROBLEM.

   D. TREES ARE NOT ALLOWED IN POND AREAS INCLUDING POND SIDE SLOPES. IF POOR VEGETATION COVER OCCURS OVER GREATER THAN 10% OF THE POND AREA, REPLACE VEGETATION AND DETERMINE WHY. CUT VEGETATION SUCH THAT IT DOES NOT EXCEED 10".

   E. IF RODENT HOLES OCCUR OR IF ANY EVIDENCE OF WATER PIPING OCCURS, REMOVE RODENTS AND COMPLETELY FILL VOIDS WITH BENTONITE CLAY, LEAN MIX CONCRETE, OR CONSOLIDATED DENSITY FILL.

   F. IF WATER REMAINS MORE THAN 72 HOURS AFTER CESSATION OF RAINFALL, A PERCOLATION TEST MUST BE DONE AND A REGISTERED ENGINEER CONSULTED.

STORMWATER PREVENTION POLLUTION PLAN

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND IMPLEMENTING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE STORMWATER MANAGEMENT MANUAL FOR EASTERN WASHINGTON (SWMMEW).
2. WHENEVER INSPECTION AND OR MONITORING REVEALS THAT THE BMP'S IDENTIFIED IN THE CONSTRUCTION SWPPP ARE INADEQUATE, DUE TO THE ACTUAL DISCHARGE OF OR POTENTIAL TO DISCHARGE A SIGNIFICATNT AMOUNT OF ANY POLLUTANT, THE SWPPP SHALL BE MODIFIED, AS APPROPRIATE AND IN A TIMELY MANNER.

FISHER CONSTRUCTION GROUP
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www.fishercgi.com
625 FISHER LANE, BURLINGTON, WA 98233

ROBERT BADGETT, PE CIVIL ENGINEER
IN CONSULTATION WITH
FISHER CONSTRUCTION GROUP, INC.
ROBERT K. BADGETT — STATE OF WASHINGTON — 57539 — REGISTERED PROFESSIONAL ENGINEER

ASI	DATE	NO.	REVISIONS
			DEPARTMENT / OPERATIONS ENG. / PLANT ENG. / REQUESTOR (REQ'D) — DESCRIPTION: — PROJECT No: — BY:

DWG. NO. | REFERENCE DRAWING

TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
1PL ±0.05 | 2PL ±0.010 | 3PL ±0.005 | 4PL ±0.0005 | FRACTION ± 1/16 | ANGLE ± 1/2°

SPECIAL SIGNATURES

DEPT. NO. | LOCATION
DEPT. NAME
PROJECT NO.
APPROVED BY
DEPT.
DESIGNER
OPERATION ENG.
PROJECT ENG.
PLANT ENG.

ATI Richland Operations
3101 Kingsgate Way
Richland, WA 99354

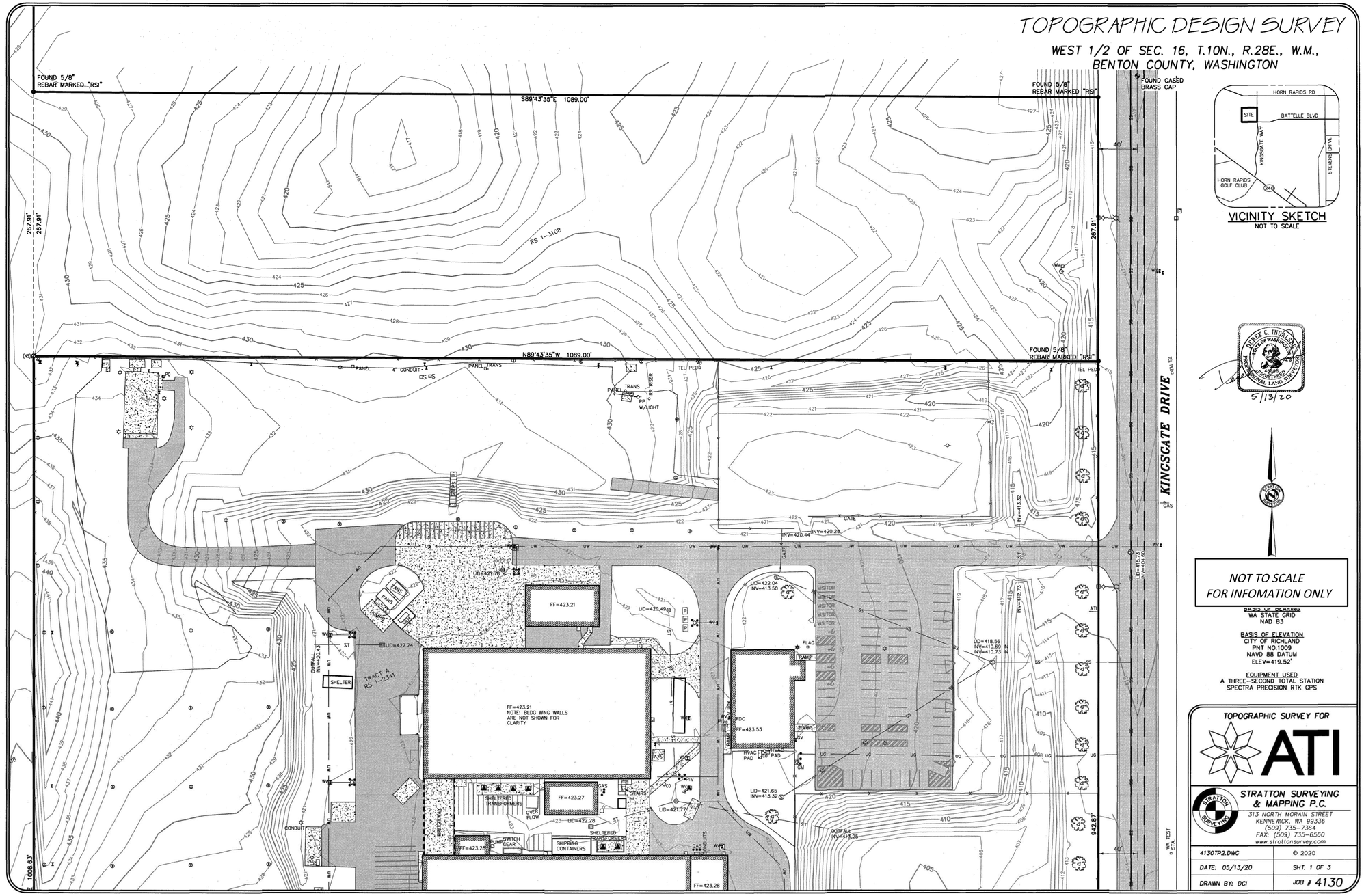
GENERAL NOTES

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.

DRAWN BY: RKB | CHK'D BY: RKB | DISCIPLINE: CIVIL | DWG. NO.: C002 | REV.: 0

TOPOGRAPHIC DESIGN SURVEY

WEST 1/2 OF SEC. 16, T.10N., R.28E., W.M.,
BENTON COUNTY, WASHINGTON



VICINITY SKETCH
NOT TO SCALE

DEREK C. INGALSBE
STATE OF WASHINGTON
21991
REGISTERED PROFESSIONAL LAND SURVEYOR

5/13/20

NOT TO SCALE
FOR INFOMATION ONLY

BASIS OF BEARING
WA STATE GRID
NAD 83

BASIS OF ELEVATION
CITY OF RICHLAND
PNT NO.1009
NAVD 88 DATUM
ELEV=419.52'

EQUIPMENT USED
A THREE-SECOND TOTAL STATION
SPECTRA PRECISION RTK GPS

TOPOGRAPHIC SURVEY FOR

ATI

STRATTON SURVEYING & MAPPING P.C.
313 NORTH MORAIN STREET
KENNEWICK, WA 99336
(509) 735-7364
FAX: (509) 735-6560
www.strattonsurvey.com

4130TP2.DWG	© 2020
DATE: 05/13/20	SHT. 1 OF 3
DRAWN BY: DCI	JOB # 4130

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ROBERT BADGETT, PE CIVIL ENGINEER
IN CONSULTATION WITH
FISHER CONSTRUCTION GROUP, INC.

ROBERT K. BADGETT
STATE OF WASHINGTON
57539
REGISTERED PROFESSIONAL ENGINEER

ASI	DATE	NO.	REVISIONS

DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REQ'D)
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:

DWG. NO. | REFERENCE DRAWING

COMPANY CONFIDENTIAL

TOLERANCE ON DIMENSIONS
UNLESS OTHERWISE SPECIFIED
1PL ±0.05 | 2PL ±0.010 | 3PL ±0.005 | 4PL ±0.0005 | FRACTION ± 1/16 | ANGLE ± 1/2°

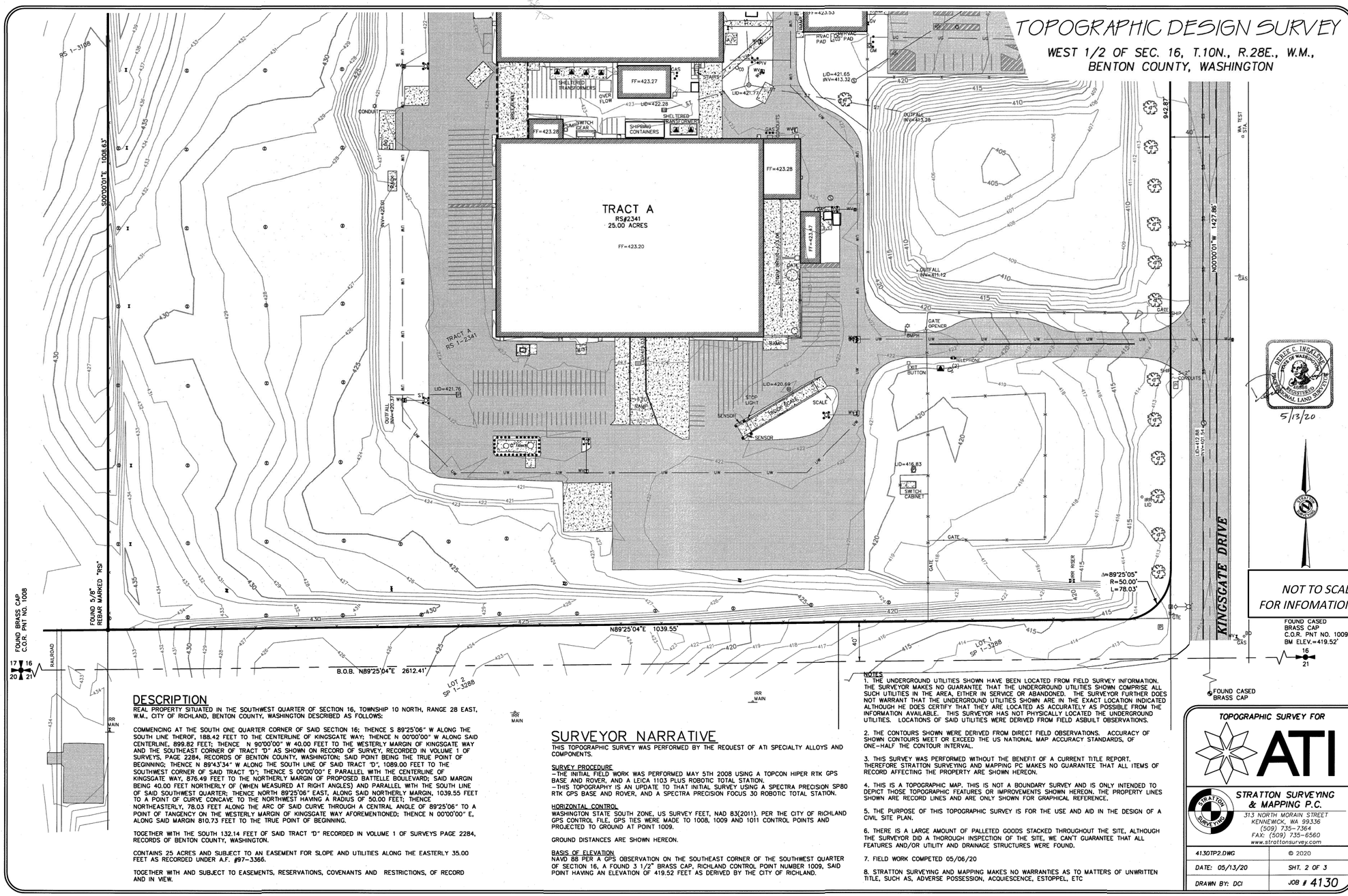
SPECIAL SIGNATURES

DEPT. NO.	LOCATION
DEPT. NAME	
PROJECT NO.	
APPROVED BY	
DEPT:	
DESIGNER	
OPERATION ENG.	
PROJECT ENG.	
PLANT ENG.	

ATI Richland Operations
3101 Kingsgate Way
Richland, WA 99354

ALTA SURVEY SHEET 1 / EXISTING CONDITIONS

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE: CIVIL	DWG. NO.: C003	REV.: 0
CHK'D BY: RKB			



TOPOGRAPHIC DESIGN SURVEY

WEST 1/2 OF SEC. 16, T.10N., R.28E., W.M.,
BENTON COUNTY, WASHINGTON

DEREK C. INGALSBE
46886
5/13/20

NOT TO SCALE
FOR INFOMATION ONLY

DESCRIPTION

REAL PROPERTY SITUATED IN THE SOUTHWEST QUARTER OF SECTION 16, TOWNSHIP 10 NORTH, RANGE 28 EAST, W.M., CITY OF RICHLAND, BENTON COUNTY, WASHINGTON DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTH ONE QUARTER CORNER OF SAID SECTION 16; THENCE S 89°25'06" W ALONG THE SOUTH LINE THEROF, 188.42 FEET TO THE CENTERLINE OF KINGSGATE WAY; THENCE N 00°00'00" W ALONG SAID CENTERLINE, 899.82 FEET; THENCE N 90°00'00" W 40.00 FEET TO THE WESTERLY MARGIN OF KINGSGATE WAY AND THE SOUTHEAST CORNER OF TRACT "D" AS SHOWN ON RECORD OF SURVEY, RECORDED IN VOLUME 1 OF SURVEYS, PAGE 2284, RECORDS OF BENTON COUNTY, WASHINGTON; SAID POINT BEING THE TRUE POINT OF BEGINNING; THENCE N 89°43'34" W ALONG THE SOUTH LINE OF SAID TRACT "D", 1089.00 FEET TO THE SOUTHWEST CORNER OF SAID TRACT "D"; THENCE S 00°00'00" E PARALLEL WITH THE CENTERLINE OF KINGSGATE WAY, 876.49 FEET TO THE NORTHERLY MARGIN OF PROPOSED BATTELLE BOULEVARD; SAID MARGIN BEING 40.00 FEET NORTHERLY OF (WHEN MEASURED AT RIGHT ANGLES) AND PARALLEL WITH THE SOUTH LINE OF SAID SOUTHWEST QUARTER; THENCE NORTH 89°25'06" EAST, ALONG SAID NORTHERLY MARGIN, 1039.55 FEET TO A POINT OF CURVE CONCAVE TO THE NORTHWEST HAVING A RADIUS OF 50.00 FEET; THENCE NORTHEASTERLY, 78.03 FEET ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 89°25'06" TO A POINT OF TANGENCY ON THE WESTERLY MARGIN OF KINGSGATE WAY AFOREMENTIONED; THENCE N 00°00'00" E, ALONG SAID MARGIN 810.73 FEET TO THE TRUE POINT OF BEGINNING.

TOGETHER WITH THE SOUTH 132.14 FEET OF SAID TRACT "D" RECORDED IN VOLUME 1 OF SURVEYS PAGE 2284, RECORDS OF BENTON COUNTY, WASHINGTON.

CONTAINS 25 ACRES AND SUBJECT TO AN EASEMENT FOR SLOPE AND UTILITIES ALONG THE EASTERLY 35.00 FEET AS RECORDED UNDER A.F. #97-3366.

TOGETHER WITH AND SUBJECT TO EASEMENTS, RESERVATIONS, COVENANTS AND RESTRICTIONS, OF RECORD AND IN VIEW.

SURVEYOR NARRATIVE

THIS TOPOGRAPHIC SURVEY WAS PERFORMED BY THE REQUEST OF ATI SPECIALTY ALLOYS AND COMPONENTS.

SURVEY PROCEDURE
-THE INITIAL FIELD WORK WAS PERFORMED MAY 5TH 2008 USING A TOPCON HIPER RTK GPS BASE AND ROVER, AND A LEICA 1103 PLUS ROBOTIC TOTAL STATION.
-THIS TOPOGRAPHY IS AN UPDATE TO THAT INITIAL SURVEY USING A SPECTRA PRECISION SP80 RTK GPS BASE AND ROVER, AND A SPECTRA PRECISION FOCUS 30 ROBOTIC TOTAL STATION.

HORIZONTAL CONTROL
WASHINGTON STATE SOUTH ZONE, US SURVEY FEET, NAD 83(2011). PER THE CITY OF RICHLAND GPS CONTROL FILE, GPS TIES WERE MADE TO 1008, 1009 AND 1011 CONTROL POINTS AND PROJECTED TO GROUND AT POINT 1009.

GROUND DISTANCES ARE SHOWN HEREON.

BASIS OF ELEVATION
NAVD 88 PER A GPS OBSERVATION ON THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER OF SECTION 16, A FOUND 3 1/2" BRASS CAP, RICHLAND CONTROL POINT NUMBER 1009, SAID POINT HAVING AN ELEVATION OF 419.52 FEET AS DERIVED BY THE CITY OF RICHLAND.

NOTES
1. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. THIS SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. LOCATIONS OF SAID UTILITIES WERE DERIVED FROM FIELD ASBUILT OBSERVATIONS.

2. THE CONTOURS SHOWN WERE DERIVED FROM DIRECT FIELD OBSERVATIONS. ACCURACY OF SHOWN CONTOURS MEET OR EXCEED THE US NATIONAL MAP ACCURACY STANDARDS, OF ONE-HALF THE CONTOUR INTERVAL.

3. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT. THEREFORE STRATTON SURVEYING AND MAPPING PC MAKES NO GUARANTEE THAT ALL ITEMS OF RECORD AFFECTING THE PROPERTY ARE SHOWN HEREON.

4. THIS IS A TOPOGRAPHIC MAP. THIS IS NOT A BOUNDARY SURVEY AND IS ONLY INTENDED TO DEPICT THOSE TOPOGRAPHIC FEATURES OR IMPROVEMENTS SHOWN HEREON. THE PROPERTY LINES SHOWN ARE RECORD LINES AND ARE ONLY SHOWN FOR GRAPHICAL REFERENCE.

5. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR THE USE AND AID IN THE DESIGN OF A CIVIL SITE PLAN.

6. THERE IS A LARGE AMOUNT OF PALLETED GOODS STACKED THROUGHOUT THE SITE, ALTHOUGH THE SURVEYOR DID A THOROUGH INSPECTION OF THE SITE, WE CAN'T GUARANTEE THAT ALL FEATURES AND/OR UTILITY AND DRAINAGE STRUCTURES WERE FOUND.

7. FIELD WORK COMPETED 05/06/20

8. STRATTON SURVEYING AND MAPPING MAKES NO WARRANTIES AS TO MATTERS OF UNWRITTEN TITLE, SUCH AS, ADVERSE POSSESSION, ACQUIESCENCE, ESTOPPEL, ETC

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DRAWN BY: DCI	JOB # 4130

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ROBERT K. BADGETT
57539

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			DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REQ'D)
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			DESCRIPTION:			PROJECT No: BY:
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			DESCRIPTION:			PROJECT No: BY:
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			DWG. NO.	REFERENCE DRAWING		

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2PL ±0.010 | 4PL ±0.0005 | ANGLE ± 1/2°

SPECIAL SIGNATURES

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DEPT. NAME
PROJECT NO.
APPROVED BY
DEPT.
DESIGNER
OPERATION ENG.
PROJECT ENG.
PLANT ENG.

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Richland Operations

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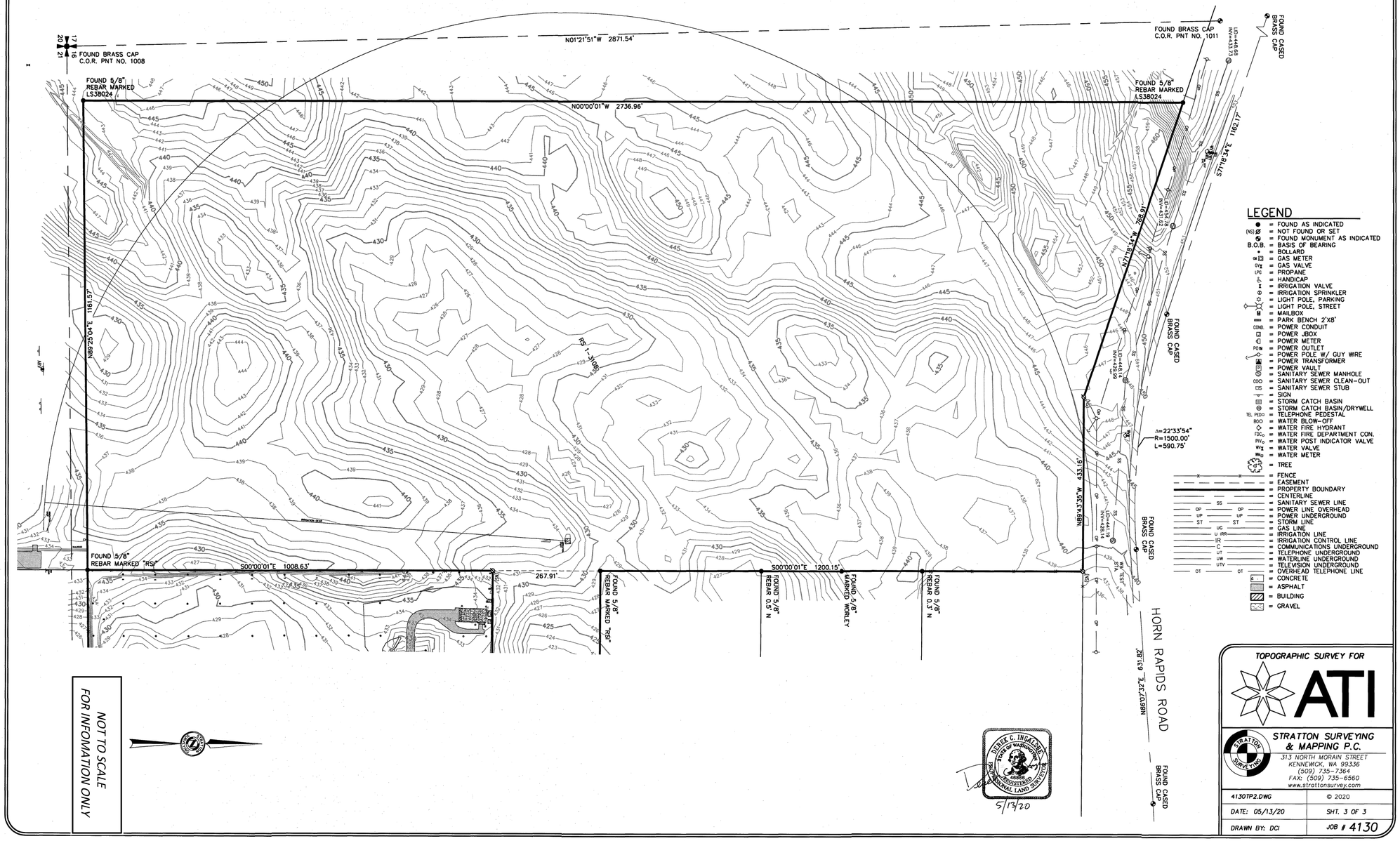
Richland, WA 99354

ALTA SURVEY SHEET 2 / EXISTING CONDITIONS

DATE	SCALE: AS SHOWN		MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE	DWG. NO.		REV.
CHK'D BY: RKB	CIVIL	C004		0

TOPOGRAPHIC DESIGN SURVEY

WEST 1/2 OF SEC. 16, T.10N., R.28E., W.M.,
BENTON COUNTY, WASHINGTON



LEGEND

- = FOUND AS INDICATED
- (NS) = NOT FOUND OR SET
- = FOUND MONUMENT AS INDICATED
- B.O.B. = BASIS OF BEARING
- = BOLLARD
- = GAS METER
- = GAS VALVE
- LPG = PROPANE
- = HANDICAP
- = IRRIGATION VALVE
- = IRRIGATION SPRINKLER
- = LIGHT POLE, PARKING
- = LIGHT POLE, STREET
- = MAILBOX
- = PARK BENCH 2'X8'
- COND. = POWER CONDUIT
- = POWER JBOX
- = POWER METER
- POB = POWER OUTLET
- = POWER POLE W/ GUY WIRE
- = POWER TRANSFORMER
- = POWER VAULT
- = SANITARY SEWER MANHOLE
- CCO = SANITARY SEWER CLEAN-OUT
- CIS = SANITARY SEWER STUB
- = SIGN
- = STORM CATCH BASIN
- = STORM CATCH BASIN/DRYWELL
- TEL PEDO = TELEPHONE PEDESTAL
- WBO = WATER BLOW-OFF
- = WATER FIRE HYDRANT
- FDC = WATER FIRE DEPARTMENT CON.
- PIV = WATER POST INDICATOR VALVE
- WV = WATER VALVE
- WM = WATER METER
- = TREE
- = FENCE
- = EASEMENT
- = PROPERTY BOUNDARY
- = CENTERLINE
- SS = SANITARY SEWER LINE
- OP = POWER LINE OVERHEAD
- UP = POWER UNDERGROUND
- ST = STORM LINE
- UG = GAS LINE
- U IRR = IRRIGATION LINE
- IR = IRRIGATION CONTROL LINE
- C = COMMUNICATIONS UNDERGROUND
- UT = TELEPHONE UNDERGROUND
- UW = WATERLINE UNDERGROUND
- UTV = TELEVISION UNDERGROUND
- OT = OVERHEAD TELEPHONE LINE
- = CONCRETE
- = ASPHALT
- = BUILDING
- = GRAVEL

NOT TO SCALE
FOR INFOMATION ONLY

DEREK C. INGALLS
STATE OF WASHINGTON
46585
REGISTERED PROFESSIONAL LAND SURVEYOR
5/13/20

TOPOGRAPHIC SURVEY FOR

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DRAWN BY: DCI	JOB # 4130

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ROBERT K. BADGETT
STATE OF WASHINGTON
57539
REGISTERED PROFESSIONAL ENGINEER

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			DESCRIPTION:			PROJECT No: BY:
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			DESCRIPTION:			PROJECT No: BY:
			DWG. NO.	REFERENCE DRAWING		

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TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
1PL ±0.05 | 2PL ±0.010 | 3PL ±0.005 | 4PL ±0.0005 | FRACTION ± 1/16 | ANGLE ± 1/2°

SPECIAL SIGNATURES

DEPT. NO.	LOCATION
DEPT. NAME	
PROJECT NO.	
APPROVED BY	
DEPT.	
DESIGNER	
OPERATION ENG.	
PROJECT ENG.	
PLANT ENG.	

ATI Richland Operations
3101 Kingsgate Wyay
Richland, WA 99354

ALTA SURVEY SHEET 3 / EXISTING CONDITIONS

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE: CIVIL	DWG. NO.: C005	REV.: 0
CHK'D BY: RKB			

EXISTING SPRINKLER VALVE TO BE REMOVED TYP.

NOTE :
1) PRIOR TO REMOVAL OF THE EXISTING SECURITY FENCING TEMPORARY / PERMANENT FENCING SHALL BE IN PLACE PER THE FENCING PLAN SHEET C010

2) CONTRACTOR TO RECONNECT EXITING IRRIGATION SYSTEM IN AREAS NOT AFFECTED BY CONSTRUCIONT.

REMOVE ALL ABANDONED ELECTRICAL PADS, TRANSFORMERS, AND PANELS FROM THE OUTLINED AREA

REMOVE ALL EXISTING IRRIGATION SYSTEM PIPING, VALVES, AND SPRINKLER HEADS WITHIN THE HATCHED AREA

EXISTING ASPHALT RAMP TO BE REMOVED

EXISTING STAIRS TO BE REMOVED

EXISTING SPRINKLER HEAD TO BE REMOVED TYP.

EXISTING FIRE WATER LINE TO REMAIN

REMOVE ALL EXISTING ASPHALT,, CONCRETE, AND ELECTRICAL ITEMS WITHIN THE HATCHED AREA

EXISTING FENCE TO REMAIN TYP.

MATCH LINE SEE SHEET C008

MATCH LINE SEE SHEET C007

ASI	DATE	NO.	REVISIONS		
			DEPARTMENT	OPERATIONS ENG.	PLANT ENG.
			DESCRIPTION:		
			DESCRIPTION:		
			DESCRIPTION:		
			DESCRIPTION:		
			DESCRIPTION:		
			DWG. NO.	REFERENCE DRAWING	

REQUESTOR (REQ'D) / PROJECT No: / BY:

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ROBERT K. BADGETT STATE OF WASHINGTON 57539 REGISTERED PROFESSIONAL ENGINEER

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DEPT. NAME
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OPERATION ENG.
PROJECT ENG.
PLANT ENG.

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NORTHERN SITE PORTION DEMOLITION PLAN

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE: CIVIL	DWG. NO.: C006	REV.: 0
CHK'D BY: RKB			

MATCH LINE SEE SHEET C006

MATCH LINE SEE SHEET C008

BUILDING B

0 30 60 Feet

RACK

REMOVE ALL EXISTING IRRIGATION SYSTEM PIPING, VALVES, AND SPRINKLER HEADS WITHIN THE HATCHED AREA

REMOVE ALL EXISTING ASPHALT,, CONCRETE, AND ELECTRICAL ITEMS WITHIN THE HATCHED AREA

EXISTING STORM LINE TO BE REMOVED

NOTE PRIOR TO REMOVAL OF THE EXISTING SECURITY FENCING TEMPORARY / PERMANENT FENCING SHALL BE IN PLACE PER THE FENCING PLAN SHEET C010

EXISTING FIRE WATER LINE TO REMAIN

EXISTING FENCE TO BE REMOVED

EXISTING FENCE TO BE REMAIN

N 89°25'03.76" E 1039.55'

DUST

RAMP

RAMP

GAS

GATE

STOP LIGHT

SENSOR

SENSOR

SCALE

EXISTING SCALE AND SENSORS TO BE RELOCATED

GATE OPENER

8MPH

EXIT BUTTON

LID=416.83

SWITCH CABINET

EXISTING FENCE TO BE REMAIN

GATE

EXISTING FENCE TO BE REMAIN

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DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REQ'D)
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DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:

DWG. NO. | REFERENCE DRAWING

TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
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SPECIAL SIGNATURES

DEPT. NO. | LOCATION
DEPT. NAME
PROJECT NO.

APPROVED BY
DEPT.
DESIGNER
OPERATION ENG.
PROJECT ENG.
PLANT ENG.

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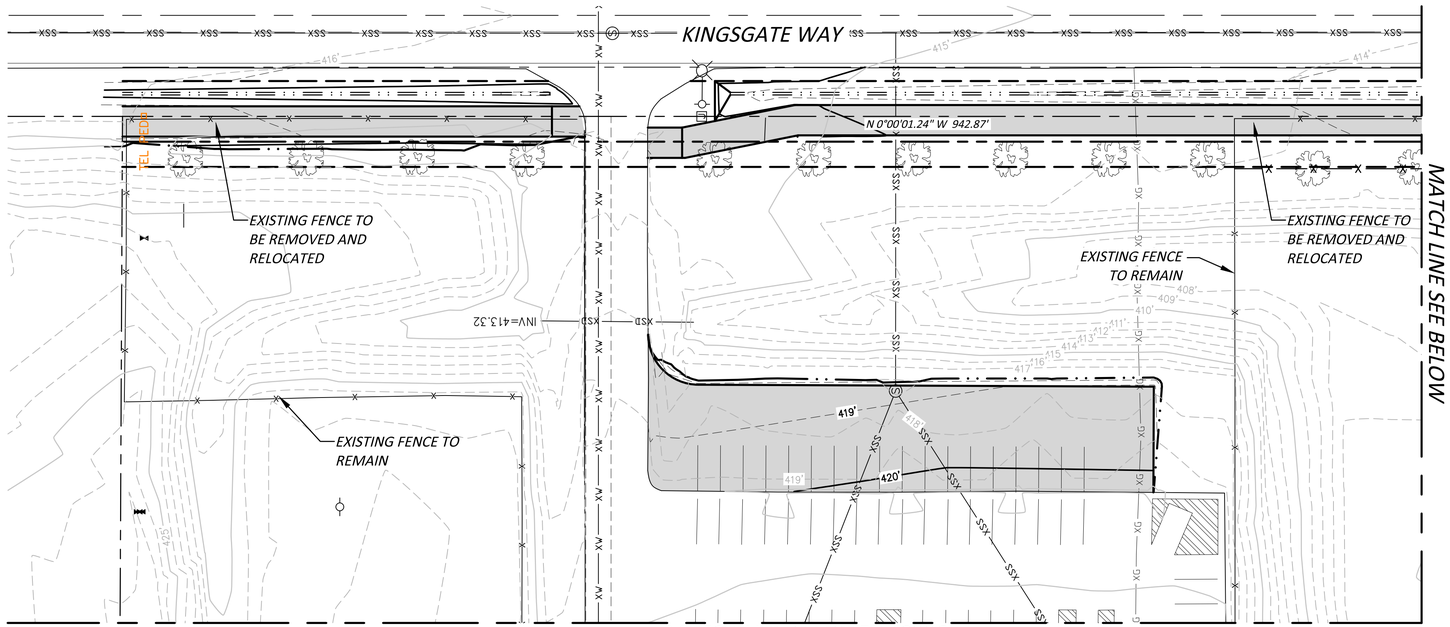
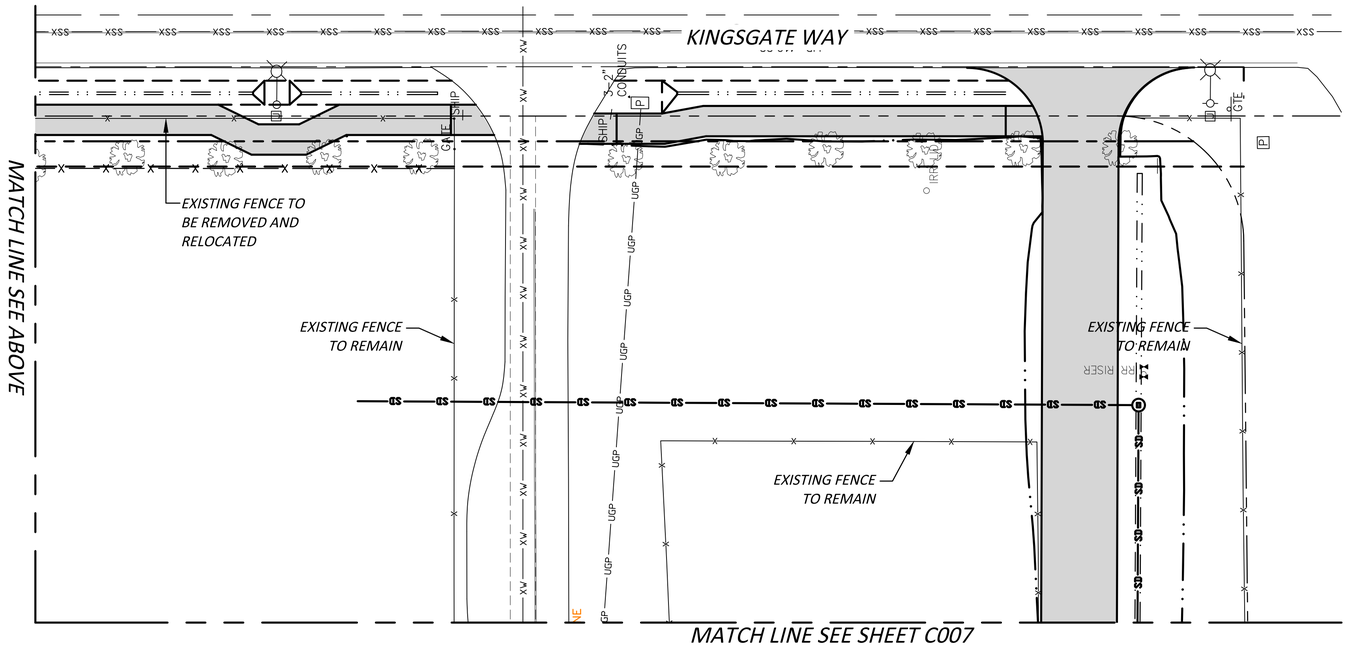
SOUTHER SITE PORTION DEMOLITION PLAN

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE: CIVIL	DWG. NO.: C007	REV.: 0
CHK'D BY: RKB			



0 30 60 Feet

NOTE PRIOR TO REMOVAL OF THE EXISTING SECURITY FENCING TEMPORARY / PERMANENT FENCING SHALL BE IN PLACE PER THE FENCING PLAN SHEET C010



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ASI	DATE	NO.

REVISIONS

DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REQ'D)
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DWG. NO. REFERENCE DRAWING

SPECIAL SIGNATURES

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UNLESS OTHERWISE SPECIFIED
1PL ±0.05 | 3PL ±0.005 | FRACTION ± 1/16
2PL ±0.010 | 4PL ±0.0005 | ANGLE ± 1/2°

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DEPT. NAME	
PROJECT NO.	
APPROVED BY	
DEPT.	
DESIGNER	
OPERATION ENG.	
PROJECT ENG.	
PLANT ENG.	

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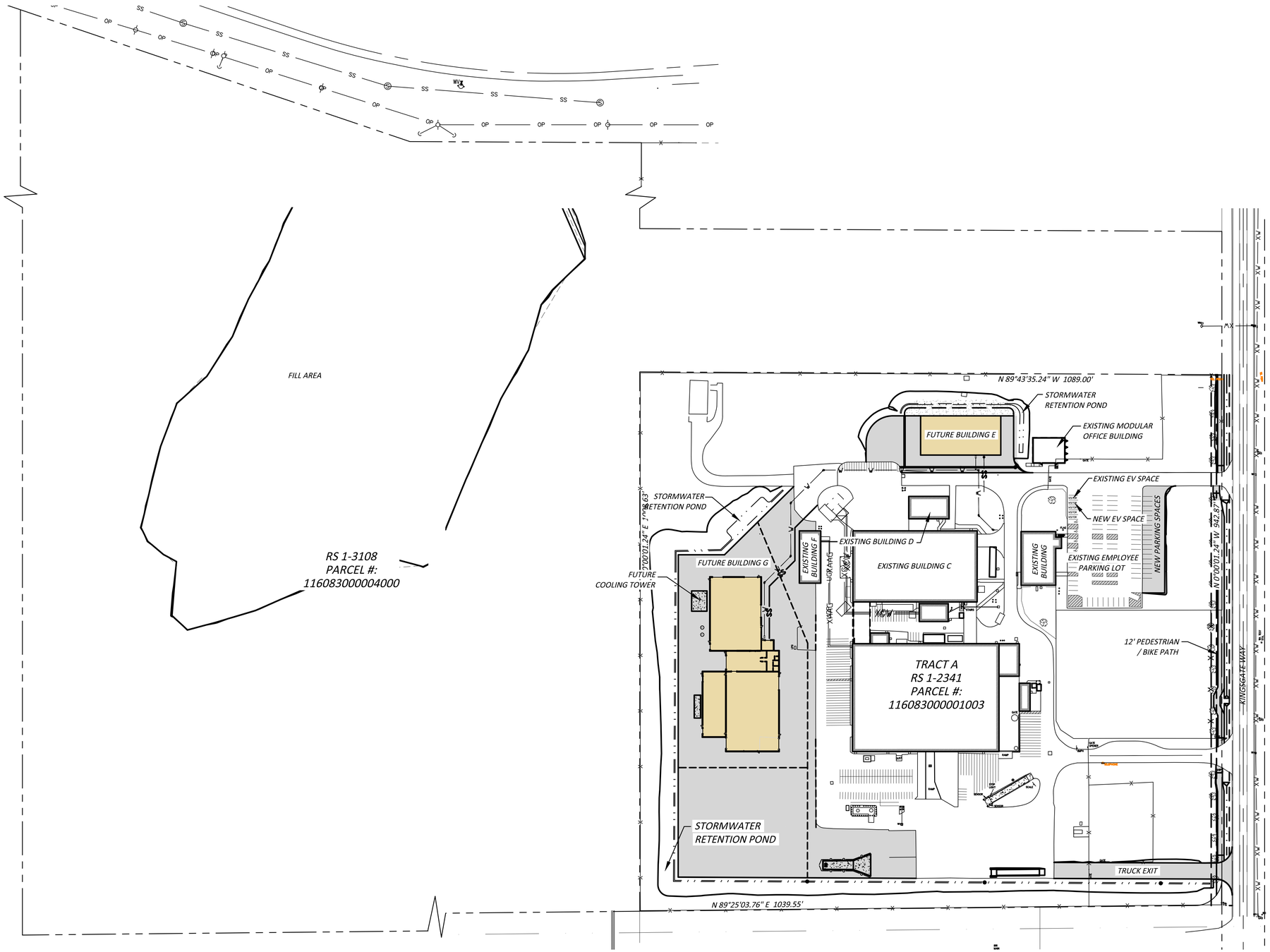
KINGSGATE WAY FRONTAGE DEMOLITION PLAN

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE: CIVIL	DWG. NO.: C008	REV.: 0
CHK'D BY: RKB			



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PLANT ENG.

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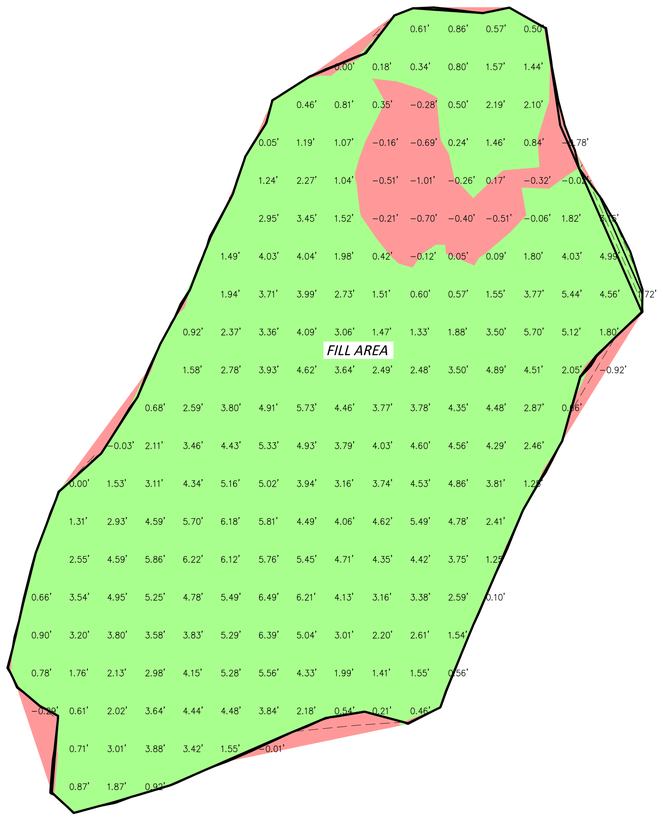
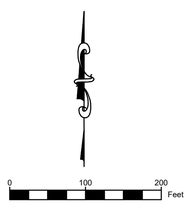
Richland Operations
3101 Kingsgate Way
Richland, WA 99354

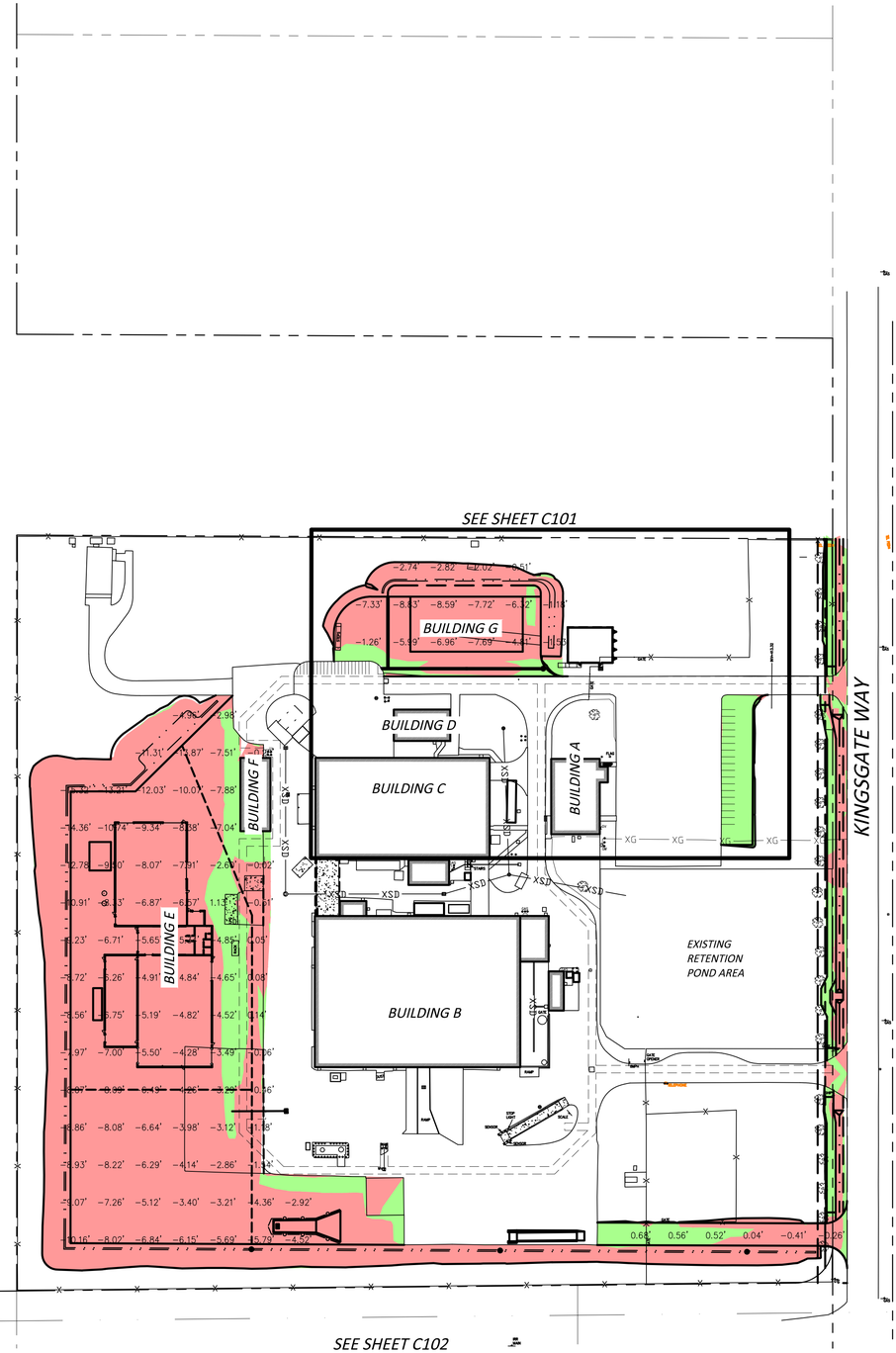
OVERALL SITE PLAN

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE: CIVIL	DWG. NO.: C009	REV.: 0
CHK'D BY: RKB			



SEE SHEET C103





SEE SHEET C102

EROSION CONTROL NOTES

1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
   (a) CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMPS;
   (b) INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING;
   (c) CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;
   (d) STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP;
   (e) CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS;
   (f) TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;
   (g) CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.);
   (h) PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS;
   (i) INSTALL PERMANENT ESC CONTROLS, WHEN APPLICABLE; AND,
   (j) REMOVE TEMPORARY ESC CONTROLS WHEN:
2. PERMANENT ESC CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
3. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION OR SEDIMENTATION PROBLEMS HAVE CEASED; AND,
4. VEGETATION HAD BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED ESC PLAN ON FILE WITH THE LOCAL JURISDICTION.
5. INSPECT ALL ROADWAYS, AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROUTE. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED.
6. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
7. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
8. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
9. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
10. INSPECT SEDIMENT CONTROL BMPS WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT, AND AFTER ANY DISCHARGE FROM THE SITE (STORMWATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.
11. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA.
12. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THIS TIME LIMIT MAY ONLY BE ADJUSTED BY A LOCAL JURISDICTION WITH A "QUALIFIED LOCAL PROGRAM," IF IT CAN BE DEMONSTRATED THAT THE RECENT PRECIPITATION JUSTIFIES A DIFFERENT STANDARD AND MEETS THE REQUIREMENTS SET FOURTH IN THE CONSTRUCTION STORMWATER GENERAL PERMIT.
13. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
14. KEEP ROADS ADJACENT TO INLETS CLEAN.
15. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.
16. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERATIONAL BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
17. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
18. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON- INERT WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 WAC FOR THE DEFINITION OF INERT WASTE), USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.
19. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM REPAIRS, SOLVENT AND DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. IF RAINING OVER EQUIPMENT OR VEHICLE, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE.
20. CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY.
21. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS. NOTE THAT INLET PROTECTION DEVICES SHALL BE CLEANED OR REMOVED AND REPLACE BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.
22. REMOVE TEMPORARY ESC BMPS WITHIN 30 DAYS AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.

GRADING QUANTITIES

TOTAL CUT (SITE): 66,600 CY
TOTAL CUT(FILL AREA): 230 CY
TOTAL FILL (SITE): 185 CY
TOTAL FILL (FILL AREA: 70,300

NOTE: EARTHWORK QUANTITIES SHOWN ARE CALCULATED TO SUBGRADE WHICH WAS ASSUMED TO BE 1' BELOW FINISHED GRADE SURFACE WITH NO SHRINKAGE OR SWELL ACCOUNTED FOR IN THIS CALCULATION.

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ROBERT BADGETT, PE CIVIL ENGINEER IN CONSULTATION WITH FISHER CONSTRUCTION GROUP, INC.
ROBERT K. BADGETT STATE OF WASHINGTON 57539 REGISTERED PROFESSIONAL ENGINEER

AS/	DATE	NO.	REVISIONS

DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REQ'D)
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:

DWG. NO. REFERENCE DRAWING

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TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
1PL ±0.05 | 2PL ±0.010 | 3PL ±0.005 | 4PL ±0.0005 | FRACTION ± 1/16 | ANGLE ± 1/2°

SPECIAL SIGNATURES

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DEPT. NAME
PROJECT NO.
APPROVED BY
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DESIGNER
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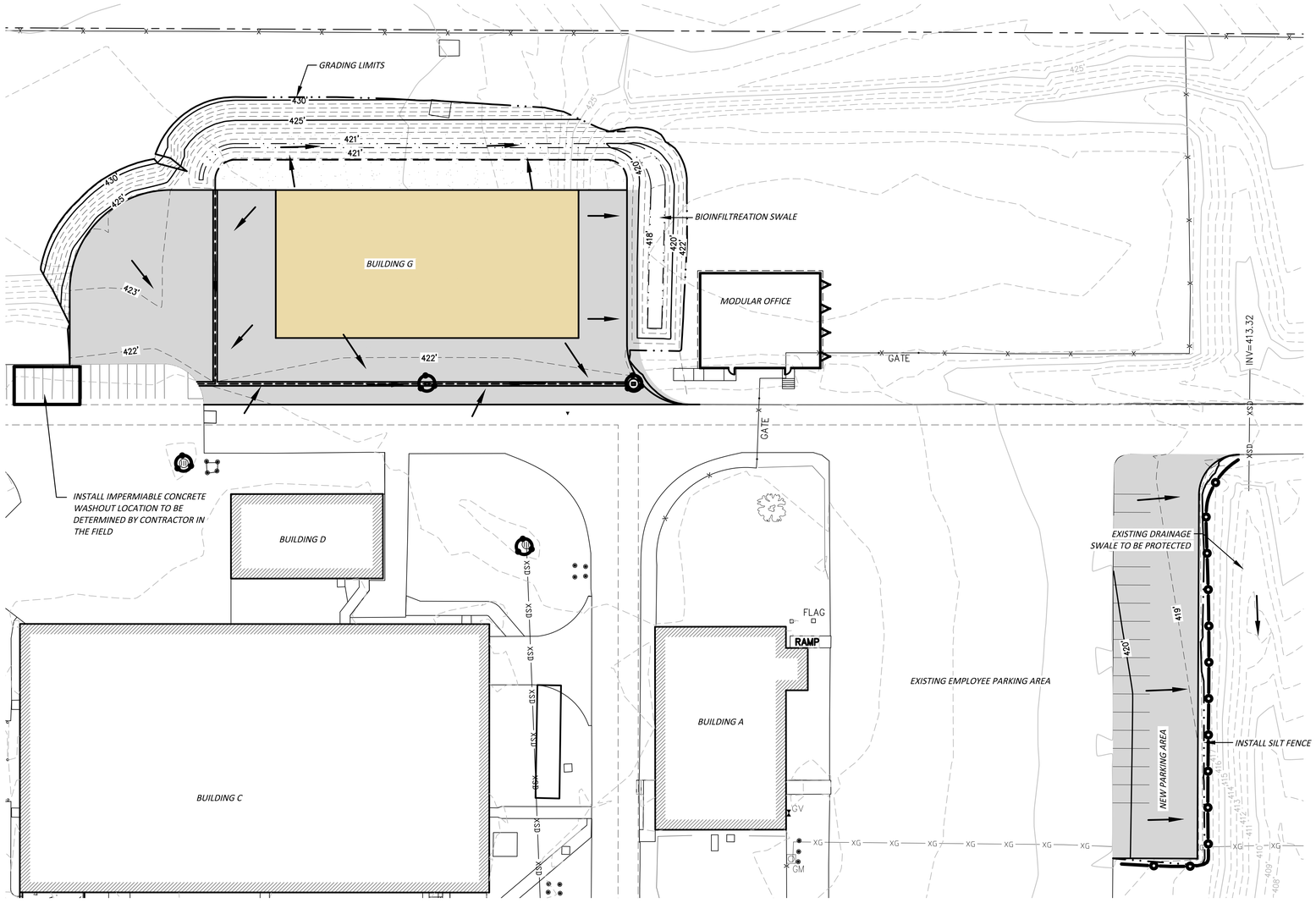
OVERALL EROSION CONTROL PLAN AND SHEET NOTES

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE: CIVIL	DWG. NO.: C100	REV.: 0
CHK'D BY: RKB			

EROSION CONTROL PLAN LEGEND

- INSTALL FILTER BAG INSERT IN STORM STRUCTURE PER DETAIL
- INSTALL SILT FENCE
- XX EXISTING MINOR CONTOUR
- XX EXISTING MAJOR CONTOUR
- XX FINISHED GRADE MINOR CONTOUR
- XX FINISHED GRADE MAJOR CONTOUR
- GRADING LIMITS
- RUNNOFF FLOW DIRECTION ARROW



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ASI	DATE	NO.	REVISIONS			
			DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REC'D)
			DESCRIPTION:			PROJECT No: BY:
			DESCRIPTION:			PROJECT No: BY:
			DESCRIPTION:			PROJECT No: BY:
			DESCRIPTION:			PROJECT No: BY:
			DESCRIPTION:			PROJECT No: BY:
			DWG. NO.	REFERENCE DRAWING		

TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
1PL ±0.05 | 2PL ±0.010 | 3PL ±0.005 | 4PL ±0.0005 | FRACTION ± 1/16 | ANGLE ± 1/2°

SPECIAL SIGNATURES

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PROJECT NO.	
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PLANT ENG.	

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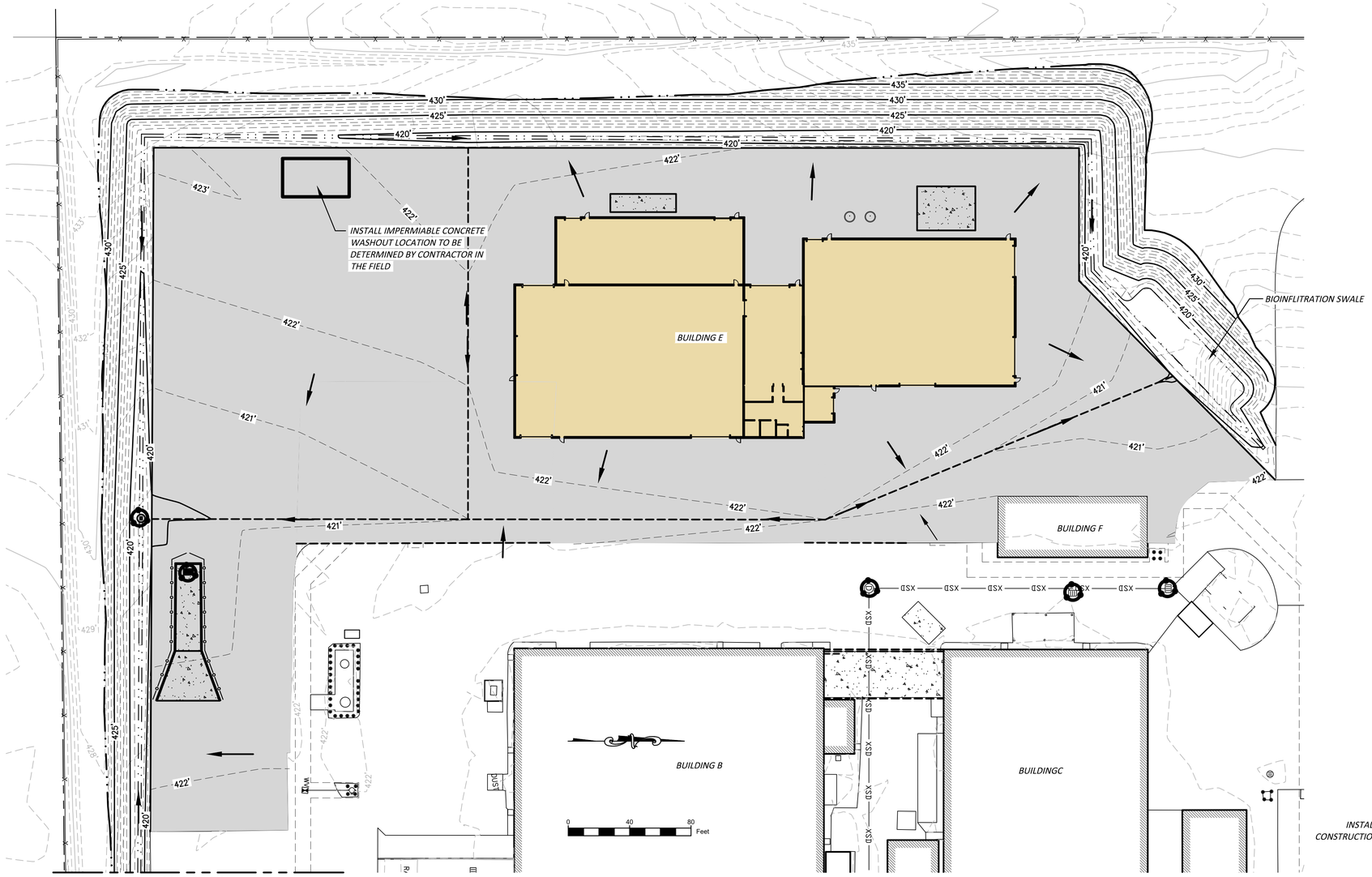
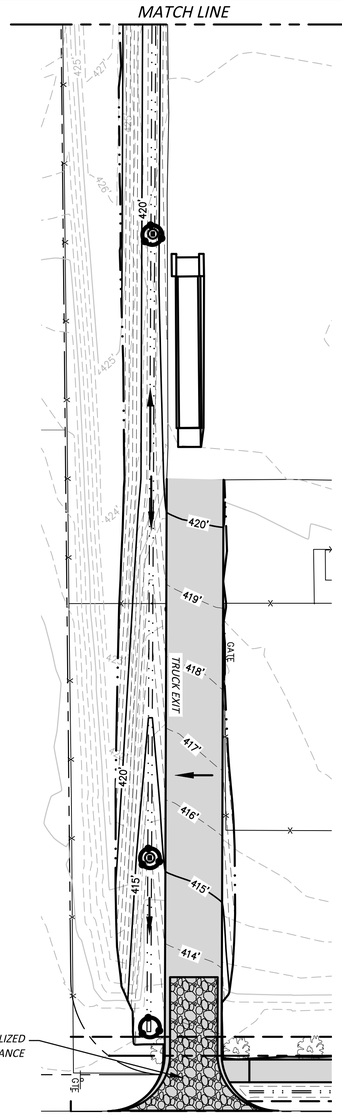
NORTH SITE PORTION EROSION CONTROL PLAN

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE: CIVIL	DWG. NO.: C101	REV.: 0
CHK'D BY: RKB			





EROSION CONTROL PLAN LEGEND

- INSTALL FILTER BAG INSERT IN STORM STRUCTURE PER DETAIL
- INSTALL SILT FENCE
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- FINISHED GRADE MINOR CONTOUR
- FINISHED GRADE MAJOR CONTOUR
- GRADING LIMITS
- RUNNOFF FLOW DIRECTION ARROW

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DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REQ'D)
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:

DWG. NO. | REFERENCE DRAWING

TOLERANCE ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
1PL ±0.05 | 3PL ±0.005 | FRACTION ± 1/16
2PL ±0.010 | 4PL ±0.0005 | ANGLE ± 1/2°

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PROJECT ENG.
PLANT ENG.

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EASTERN & SOUTHER SITE PORTION EROSION CONTROL PLAN

DATE | SCALE: AS SHOWN | MATERIAL | PREVIOUS DWG. NO.
DRAWN BY: RKB
CHK'D BY: RKB
DISCIPLINE: CIVIL | DWG. NO.: C102 | REV.: 0

EROSION CONTROL PLAN LEGEND

- INSTALL FILTER BAG INSERT IN STORM STRUCTURE PER DETAIL
- INSTALL SILT FENCE
- XX — EXISTING MINOR CONTOUR
- XX — EXISTING MAJOR CONTOUR
- XX — FINISHED GRADE MINOR CONTOUR
- XX — FINISHED GRADE MAJOR CONTOUR
- GRADING LIMITS
- RUNNOFF FLOW DIRECTION ARROW

0 60 120 Feet

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DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REQ'D)
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:

DWG. NO. | REFERENCE DRAWING

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1PL ±0.05 | 2PL ±0.010 | 3PL ±0.005 | 4PL ±0.0005 | FRACTION ± 1/16 | ANGLE ± 1/2°

SPECIAL SIGNATURES

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FILL AREA EROSION CONTROL PLAN

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
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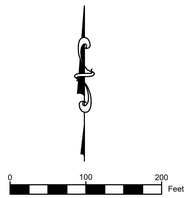
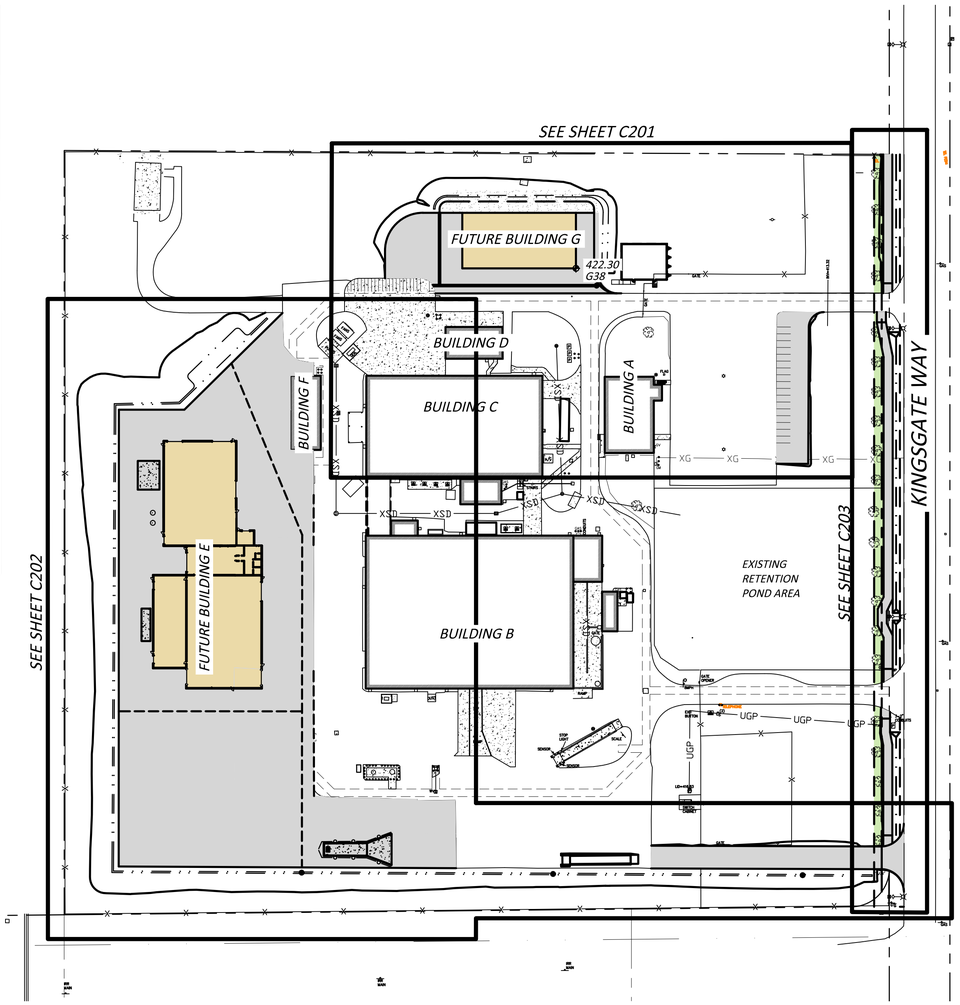
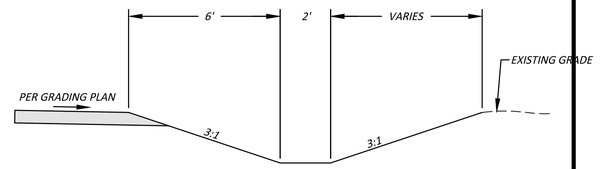
CHK'D BY: RKB			

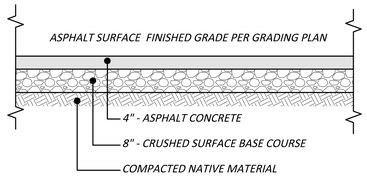






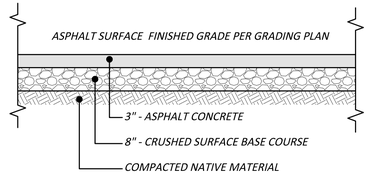
2 / C200 — TYPICAL ROADSIDE SWALE SECTION

NOT TO SCALE



3 / C200 — TYPICAL HEAVY PAVEMENT SECTION

NOT TO SCALE



4 / C200 — TYPICAL LIGHT PAVEMENT SECTION

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TOLERANCE ON DIMENSIONS
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2PL ±0.010 | 4PL ±0.0005 | ANGLE ± 1/2°

SPECIAL SIGNATURES

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OPERATION ENG. / DATE
PROJECT ENG. / DRAWN BY: RKB
PLANT ENG. / CHK'D BY: RKB

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OVERALL GRADING PLAN / STANARD SECTIONS /SHEET MPA

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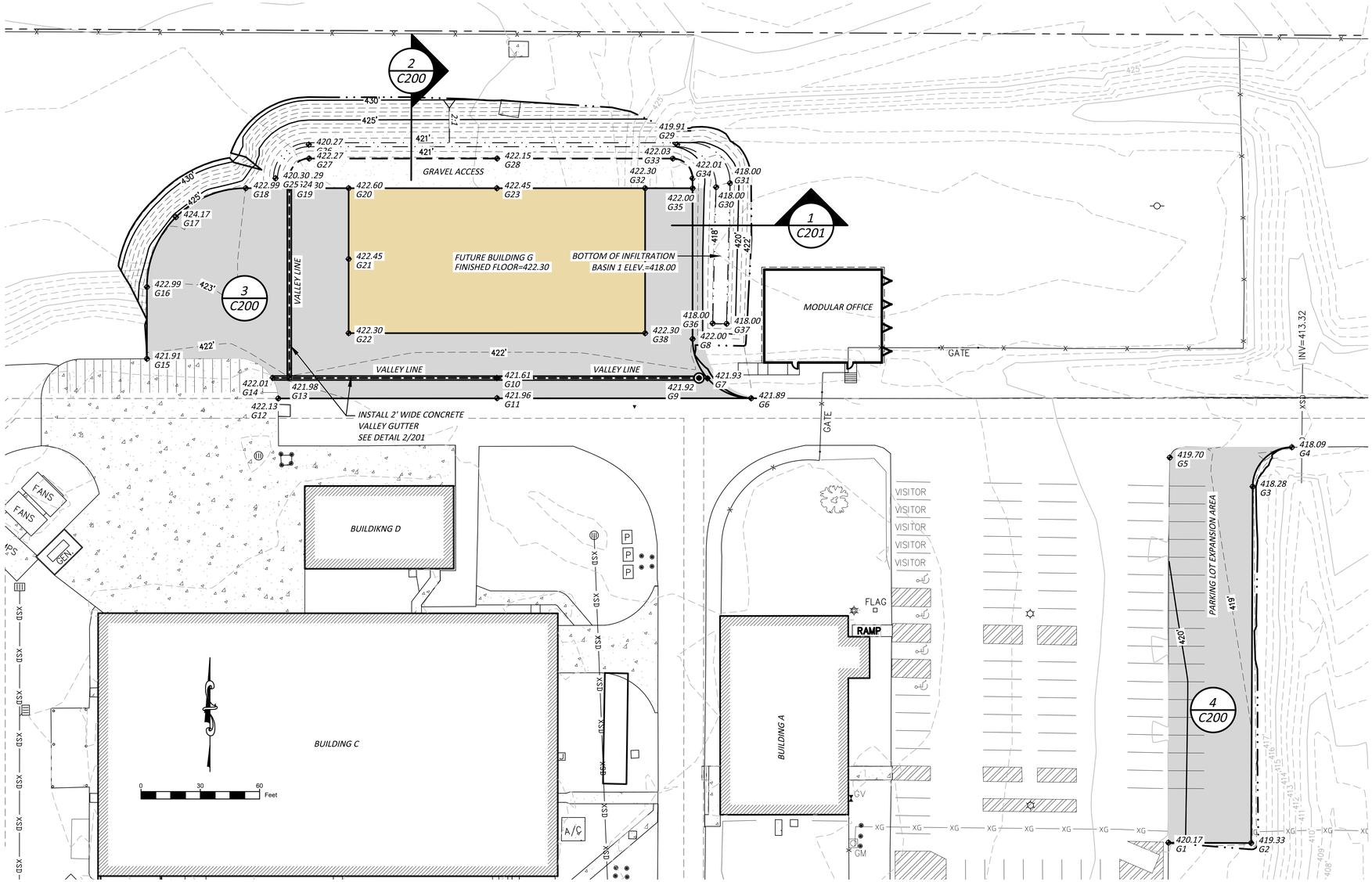
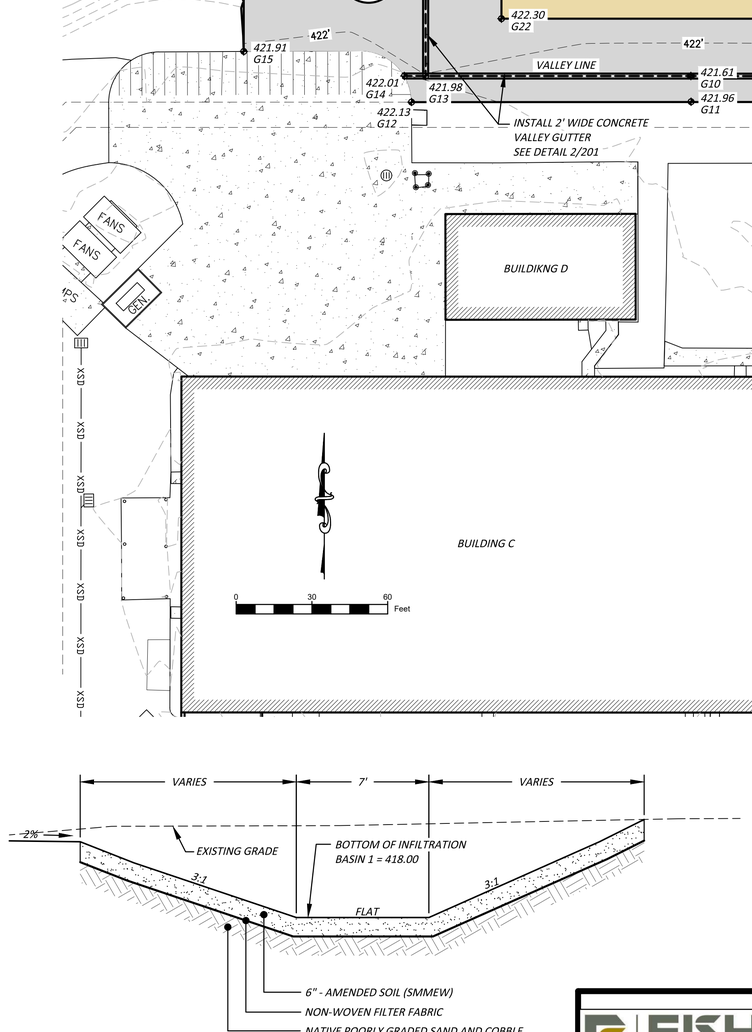
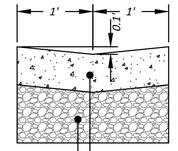
DISCIPLINE: CIVIL | DWG. NO.: C200 | REV.: 0





1 C201 — INFILTRATION BASIN 1 SECTION
NOT TO SCALE



2 C201 — CONCRETE VALLEY GUTTER SECTION
NOT TO SCALE

GRADING POINT TABLE

POINT #	NORTHING	EASTING	ELEV.
G1	371387.82	1939364.94	420.17
G2	371387.64	1939406.80	419.33
G3	371567.96	1939407.57	418.28
G4	371587.88	1939427.39	418.09
G5	371582.67	1939365.63	419.70
G6	371612.66	1939153.86	421.89
G7	371622.72	1939131.79	421.93
G8	371642.65	1939124.21	422.00
G9	371622.88	1939127.45	421.92
G10	371622.90	1939025.21	421.61
G11	371612.71	1939025.28	421.96
G12	371612.55	1938914.60	422.13
G13	371622.92	1938920.20	421.98
G14	371622.92	1938911.77	422.01
G15	371632.64	1938848.17	421.91
G16	371668.95	1938848.17	422.99
G17	371704.30	1938862.82	424.17
G18	371718.95	1938898.17	422.99
G19	371718.95	1938920.21	422.30
G20	371718.95	1938950.21	422.60
G21	371683.11	1938950.21	422.45
G22	371645.61	1938950.21	422.30
G23	371718.91	1939025.21	422.45
G24	371723.95	1938920.21	422.29
G25	371723.95	1938913.21	420.30
G26	371740.96	1938930.04	420.27
G27	371733.95	1938930.21	422.27
G28	371733.95	1939025.34	422.15
G29	371741.01	1939116.40	419.91
G30	371719.45	1939136.10	418.00
G31	371721.45	1939143.15	418.00
G32	371718.91	1939100.21	422.30
G33	371733.95	1939114.21	422.03
G34	371723.95	1939124.21	422.01
G35	371718.91	1939124.21	422.00
G36	371650.54	1939134.39	418.01
G37	371650.36	1939141.42	418.01
G38	371645.59	1939100.21	422.30

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STATE OF WASHINGTON
57539
REGISTERED
PROFESSIONAL ENGINEER

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DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REQ'D)
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DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:

DWG. NO. REFERENCE DRAWING

TOLERANCE ON DIMENSIONS
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SPECIAL SIGNATURES

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PLANT ENG.

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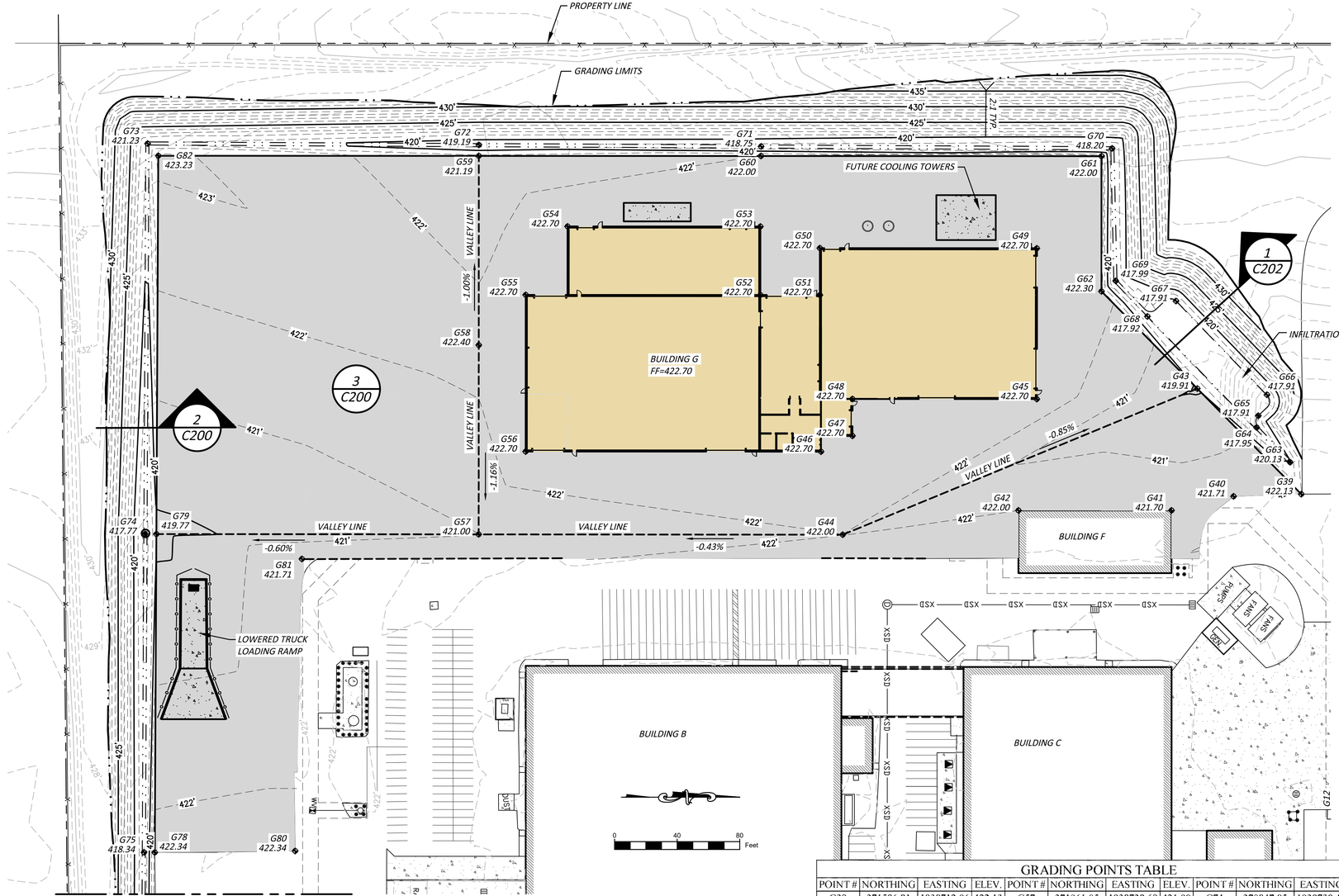
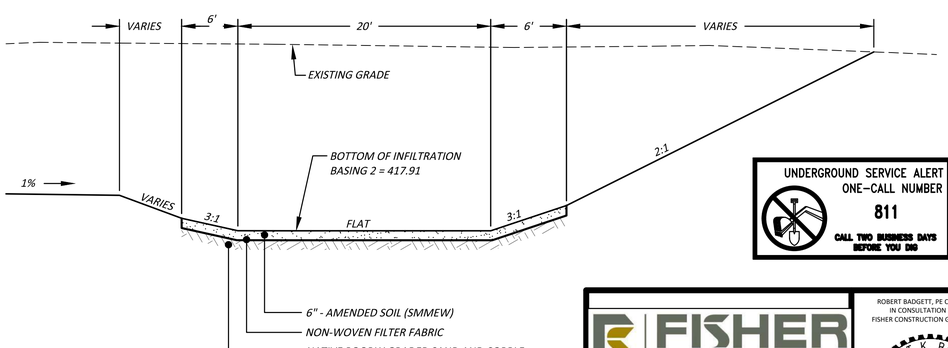
NORTH SITE PORTION GRADING PLAN

DATE | SCALE: AS SHOWN | MATERIAL | PREVIOUS DWG. NO.
DRAWN BY: RKB
CHK'D BY: RKB
DISCIPLINE: CIVIL | DWG. NO.: C201 | REV.: 0





1 C202 **INFILTRATION BASIN 2 SECTION**
NOT TO SCALE

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ONE-CALL NUMBER
811
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GRADING POINTS TABLE

POINT #	NORTHING	EASTING	ELEV.	POINT #	NORTHING	EASTING	ELEV.	POINT #	NORTHING	EASTING	ELEV.
G39	371586.81	1938712.96	422.13	G57	371061.05	1938738.69	421.00	G74	370847.85	1938738.43	417.77
G40	371543.54	1938714.36	421.71	G58	371061.10	1938617.72	422.40	G75	370847.14	1938941.97	418.34
G41	371503.87	1938723.39	421.70	G59	371061.15	1938496.76	421.19	G76	370845.72	1939198.92	418.46
G42	371406.05	1938723.39	422.00	G60	371241.50	1938496.83	422.00	G77	370844.26	1939491.04	410.45
G43	371520.37	1938645.52	419.91	G61	371459.10	1938496.92	422.00	G78	370854.05	1938942.00	422.34
G44	371293.76	1938738.91	422.00	G62	371459.10	1938583.33	422.30	G79	370855.07	1938738.49	419.77
G46	371279.84	1938685.81	422.70	G63	371579.66	1938692.57	420.13	G80	370943.76	1938941.07	422.34
G47	371299.95	1938675.71	422.70	G64	371558.27	1938670.34	417.95	G81	370948.08	1938754.42	421.71
G48	371299.96	1938652.16	422.70	G65	371559.37	1938662.85	417.91	G82	370856.28	1938496.67	423.23
G45	371417.79	1938652.20	422.70	G66	371564.87	1938649.44	417.91	G83	370853.76	1939199.39	420.46
G49	371417.83	1938555.86	422.70	G67	371506.76	1938589.51	417.91	G84	370883.67	1939199.82	420.58
G50	371279.13	1938555.70	422.70	G68	371488.50	1938599.38	417.92	G85	370883.23	1939351.27	417.06
G51	371279.11	1938585.70	422.70	G69	371468.21	1938576.63	417.99	G86	370853.23	1939351.25	416.46
G52	371241.11	1938585.69	422.70	G70	371465.90	1938491.99	418.20	G87	370882.71	1939502.73	412.71
G53	371241.13	1938541.90	422.70	G71	371241.56	1938490.71	418.75	G88	370852.89	1939504.15	412.55
G54	371117.87	1938541.85	422.70	G72	371061.19	1938489.75	419.19	G89	370822.74	1939533.01	412.72
G55	371091.11	1938585.63	422.70	G73	370849.47	1938488.88	421.23	G90	370912.71	1939532.84	412.51
G56	371091.07	1938685.73	422.70								

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ROBERT K. BADGETT STATE OF WASHINGTON 57539 REGISTERED PROFESSIONAL ENGINEER

ASI	DATE	NO.	REVISIONS

DEPARTMENT | OPERATIONS ENG. | PLANT ENG. | REQUESTOR (REQ'D)
DESCRIPTION: PROJECT No: BY:

DWG. NO. REFERENCE DRAWING

TOLERANCE ON DIMENSIONS
UNLESS OTHERWISE SPECIFIED
1PL ±0.05 | 3PL ±0.005 | FRACTION ± 1/16
2PL ±0.010 | 4PL ±0.0005 | ANGLE ± 1/2°

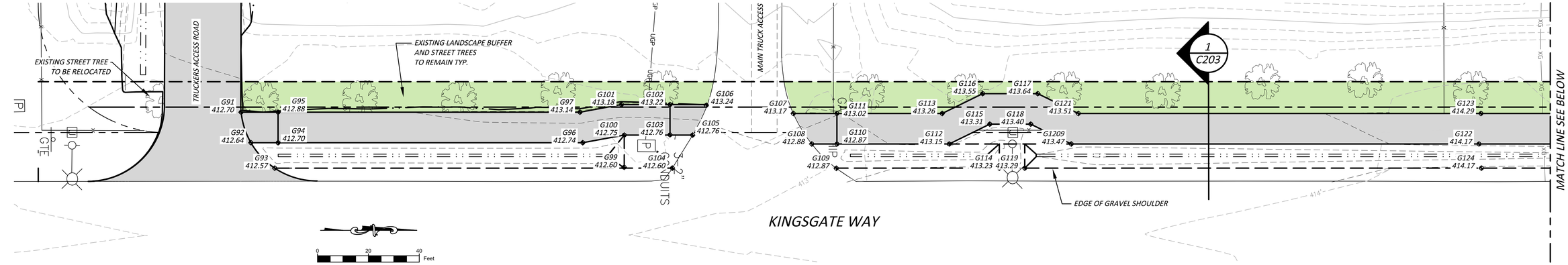
SPECIAL SIGNATURES

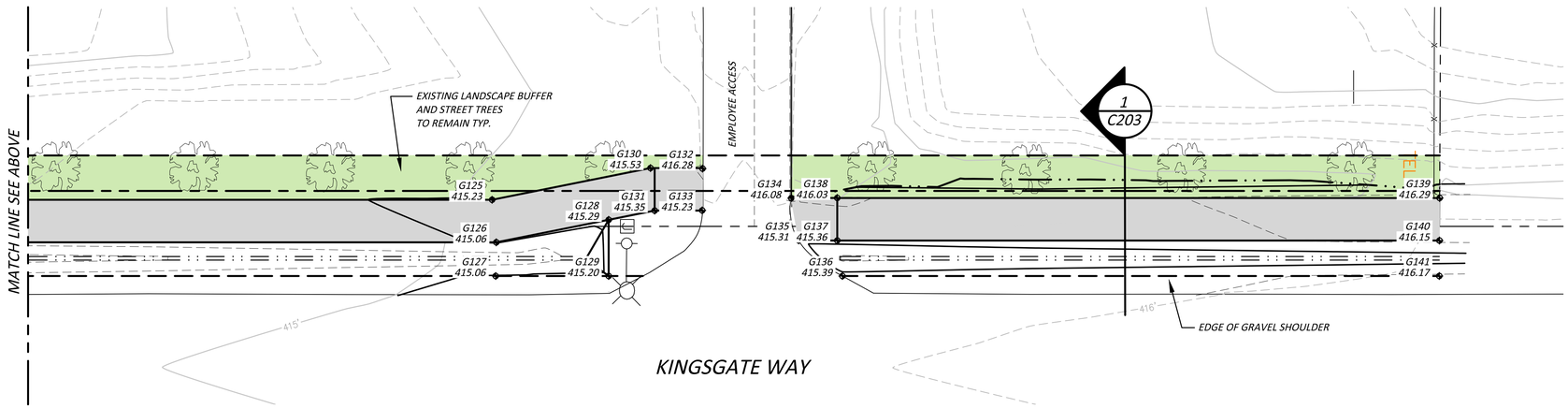
DEPT. NO. | LOCATION
DEPT. NAME
PROJECT NO.
APPROVED BY
DEPT.
DESIGNER
OPERATION ENG.
PROJECT ENG.
PLANT ENG.

ATI Richland Operations
3101 Kingsgate Way
Richland, WA 99354

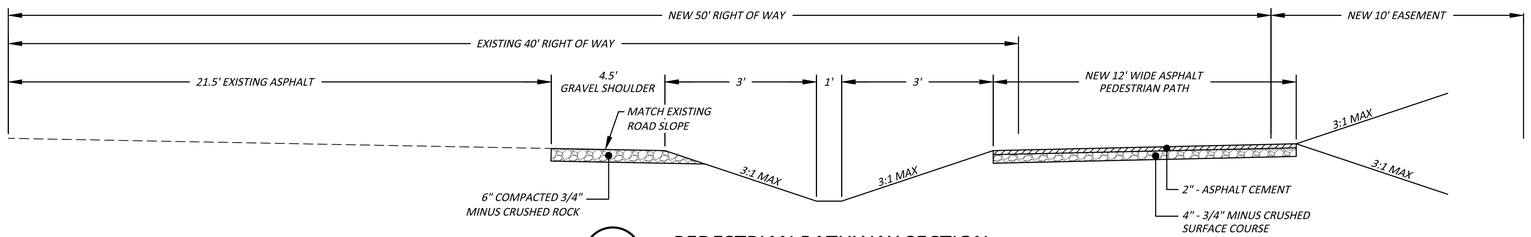
EAST AND SOUTH SITE PORTION GRADING PLAN

DATE | SCALE: AS SHOWN | MATERIAL | REVISION DWG. NO.
DRAWN BY: RKB
CHK'D BY: RKB
DISCIPLINE: CIVIL | DWG. NO.: C202 | REV.: 0





GRADING POINTS TABLE							
POINT #	NORTHING	EASTING	ELEV.	POINT #	NORTHING	EASTING	ELEV.
G91	370882.85	1939505.80	412.70	G117	371196.02	1939498.50	413.64
G92	370886.71	1939517.80	412.64	G118	371193.25	1939510,50	413.40
G93	370896.07	1939527.80	412.57	G119	371190.90	1939527.80	413.29
G94	370897.38	1939517.81	412.70	G120	371209.18	1939518.30	413.47
G95	370897.38	1939505.80	412.88	G121	371211.95	1939506.30	413.51
G96	371017.15	1939517.80	412.74	G122	371369.43	1939518.30	414.17
G97	371016.05	1939505.80	413.14	G123	371370.23	1939506.30	414.29
G99	371033.41	1939527.46	412.60	G124	371370.42	1939527.80	414.17
G100	371033.27	1939502.24	413.00	G125	371528.51	1939506.30	415.23
G101	371032.36	1939502.80	413.18	G126	371529.69	1939518.30	415.06
G102	371051.44	1939502.80	413.22	G127	371529.53	1939527.80	415.06
G103	371051.44	1939514.68	412.76	G128	371561.42	1939511.95	415.29
G104	371052.37	1939527.80	412.60	G129	371561.42	1939527.80	415.20
G105	371060.33	1939514.80	412.76	G130	371573.22	1939497.35	415.53
G106	371065.73	1939503.06	413.24	G131	371574.41	1939509.35	415.35
G107	371099.92	1939506.30	413.17	G132	371587.93	1939497.50	416.28
G108	371107.19	1939518.30	412.88	G133	371587.81	1939509.29	415.23
G109	371116.83	1939527.85	412.87	G134	371612.98	1939505.83	416.08
G110	371117.05	1939518.31	412.87	G135	371615.08	1939517.75	415.31
G111	371117.05	1939506.26	413.02	G136	371627.41	1939527.79	415.39
G112	371161.22	1939518.30	413.15	G137	371625.95	1939517.79	415.36
G113	371158.44	1939506.30	413.26	G138	371625.95	1939505.78	416.03
G114	371180.90	1939527.80	413.23	G139	371796.02	1939505.79	416.29
G115	371177.15	1939510.50	413.31	G140	371795.97	1939517.79	416.15
G116	371174.37	1939498.50	413.55	G141	371795.92	1939527.79	416.17



1 C203 **PEDESTRIAN PATHWAY SECTION**

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ASI	DATE	NO.	REVISIONS

DEPARTMENT	OPERATIONS ENG.	PLANT ENG.	REQUESTOR (REQ'D)
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:

DWG. NO. REFERENCE DRAWING

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SPECIAL SIGNATURES

APPROVED BY
DEPT.
DESIGNER
OPERATION ENG.
PROJECT ENG.
PLANT ENG.

DEPT. NO. LOCATION
DEPT. NAME
PROJECT NO.

ATI Richland Operations
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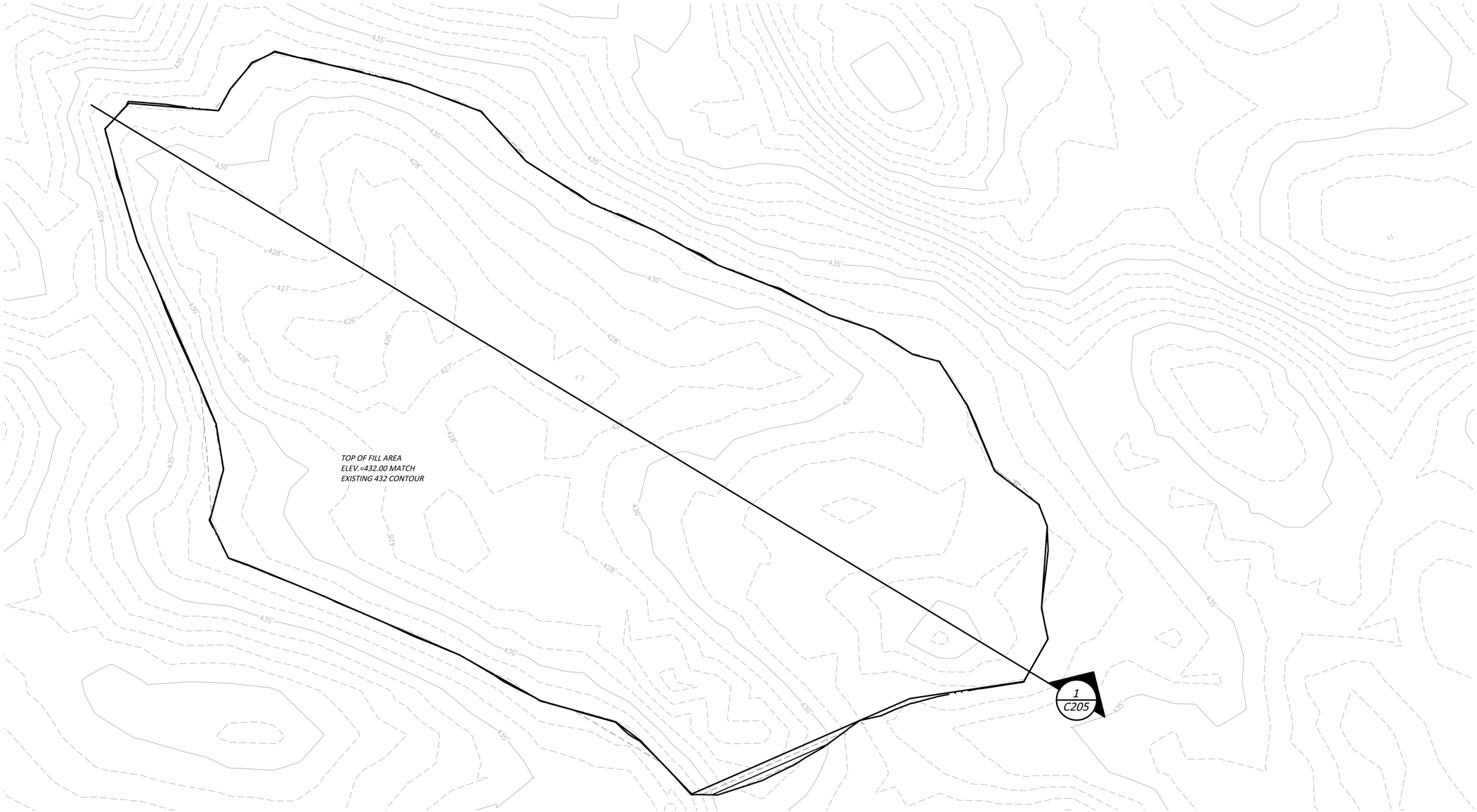
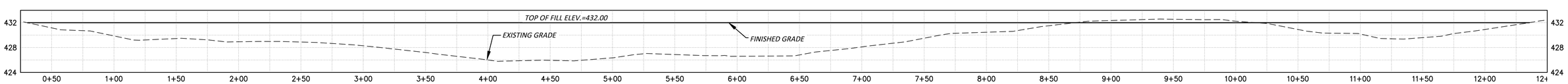
KINGSWAY FRONTAGE IMPROVEMENTS / GRADING PLAN

DATE
SCALE: AS SHOWN
MATERIAL
PREVIOUS DWG. NO.
DRAWN BY: RKB
CHK'D BY: RKB
DISCIPLINE: CIVIL
DWG. NO.: C203
REV.: 0





1 C205 **FILL AREA GRADING SECTION**

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DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:

DWG. NO. REFERENCE DRAWING

TOLERANCE ON DIMENSIONS
UNLESS OTHERWISE SPECIFIED
1PL ±0.05 | 3PL ±0.005 | FRACTION ± 1/16
2PL ±0.010 | 4PL ±0.0005 | ANGLE ± 1/2°

SPECIAL SIGNATURES

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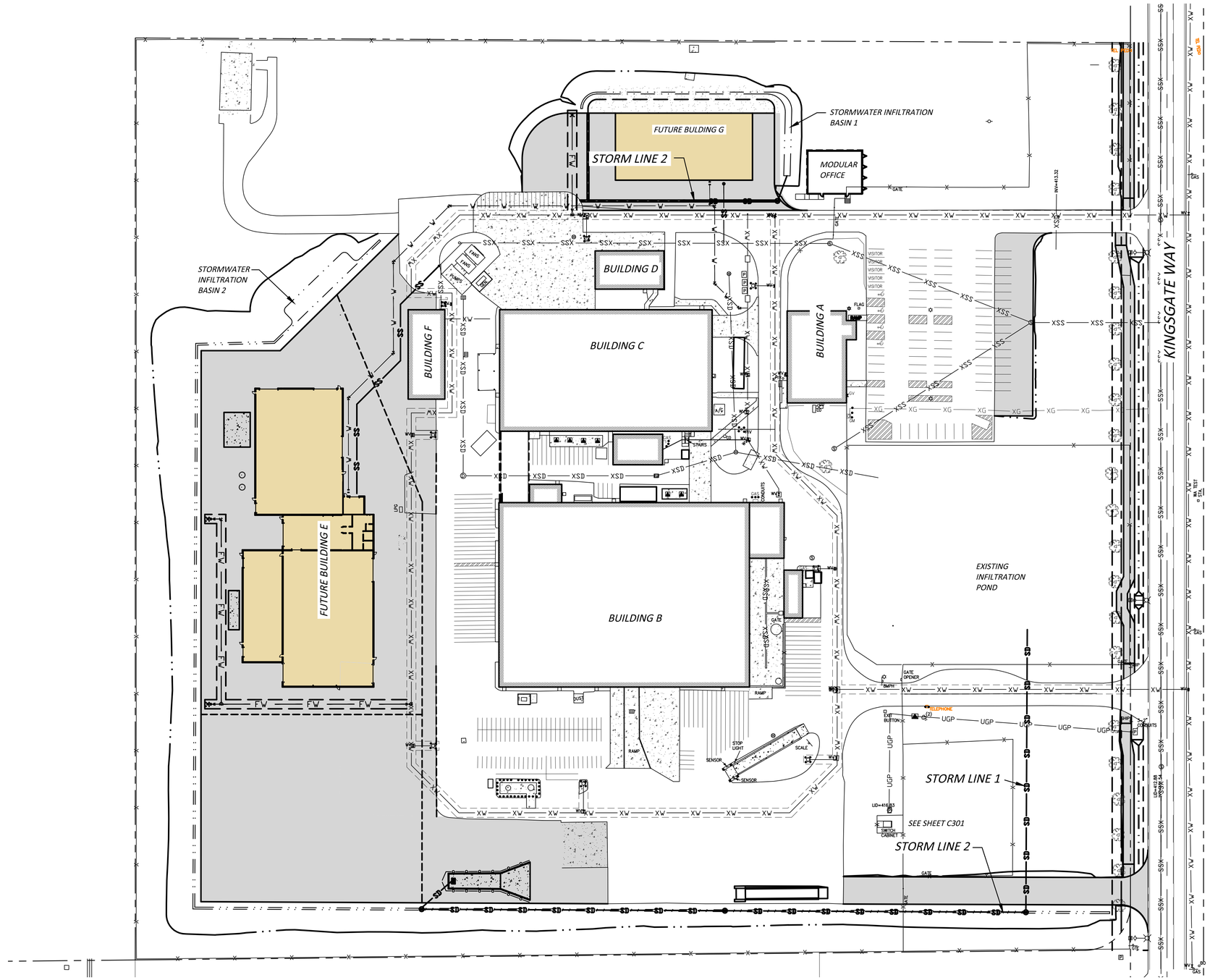
FILL AREA GRADING PLAN

DATE | SCALE: AS SHOWN | MATERIAL | PREVIOUS DWG. NO.
DRAWN BY: RKB
CHK'D BY: RKB
DISCIPLINE: CIVIL | DWG. NO.: C204 | REV.: 0



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DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:
DESCRIPTION:			PROJECT No: BY:

DWG. NO. | REFERENCE DRAWING

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PROJECT NO.	
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PLANT ENG.	

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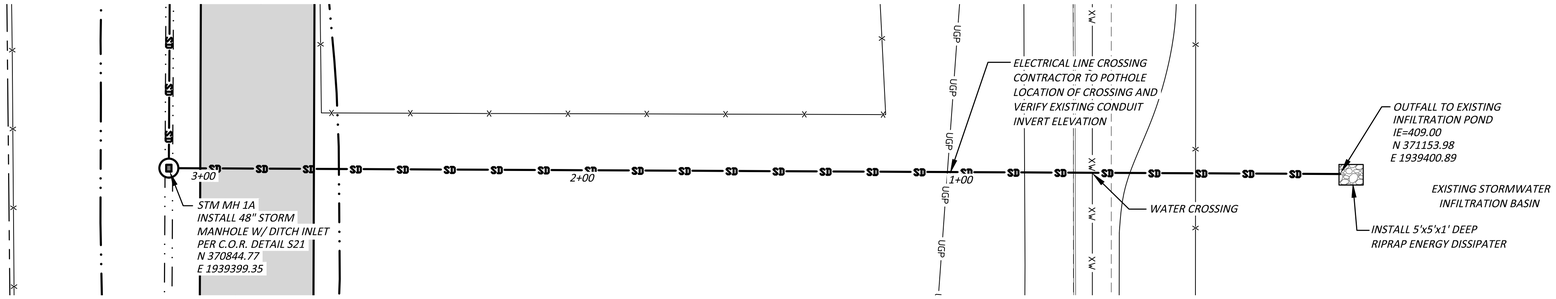
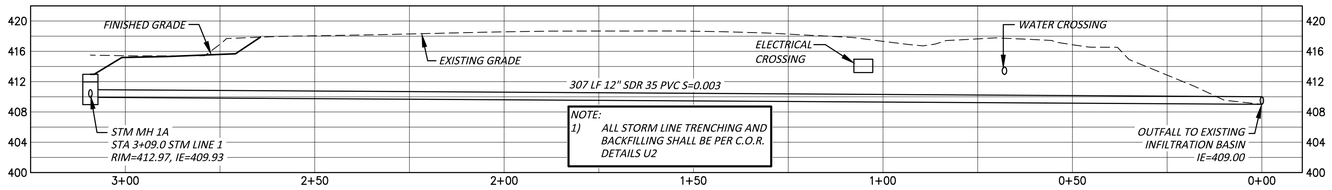
OVERALL STORM DRAINAGE PLAN

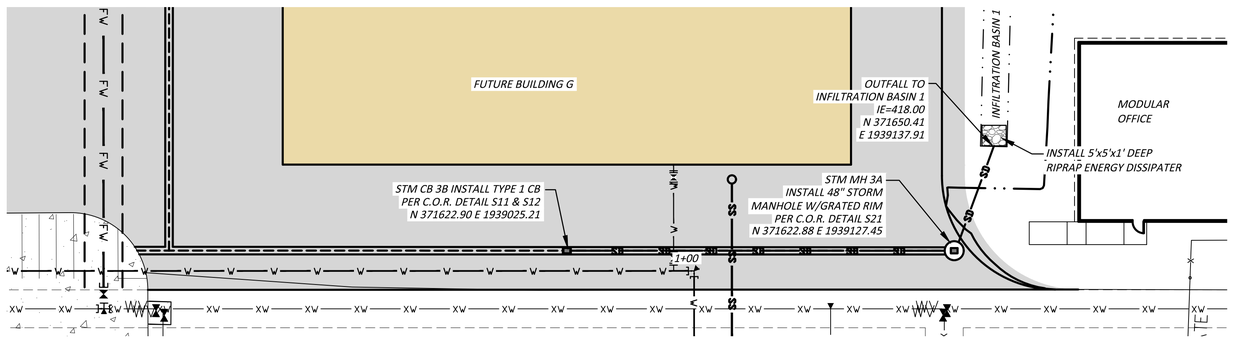
DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
DRAWN BY: RKB	DISCIPLINE: CIVIL	DWG. NO.: C300	REV.: 0
CHK'D BY: RKB			



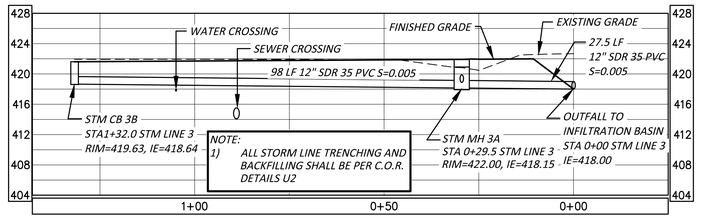
STORM LINE 1 PLAN



STORM LINE 1 PROFILE



STORM LINE 3 PLAN



STORM LINE 3 PROFILE

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1PL ±0.05 | 3PL ±0.005 | FRACTION ± 1/16
2PL ±0.010 | 4PL ±0.0005 | ANGLE ± 1/2°

SPECIAL SIGNATURES

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PROJECT NO.
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OPERATION ENG.
PROJECT ENG.
PLANT ENG.

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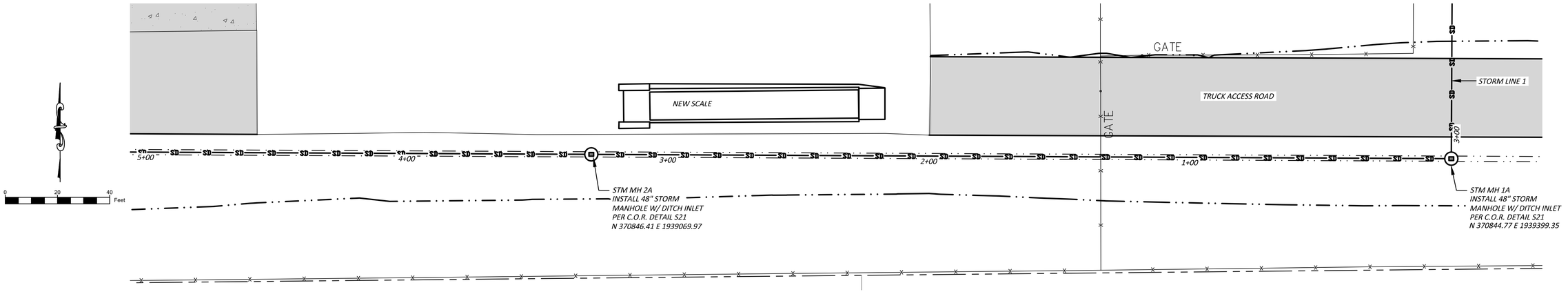
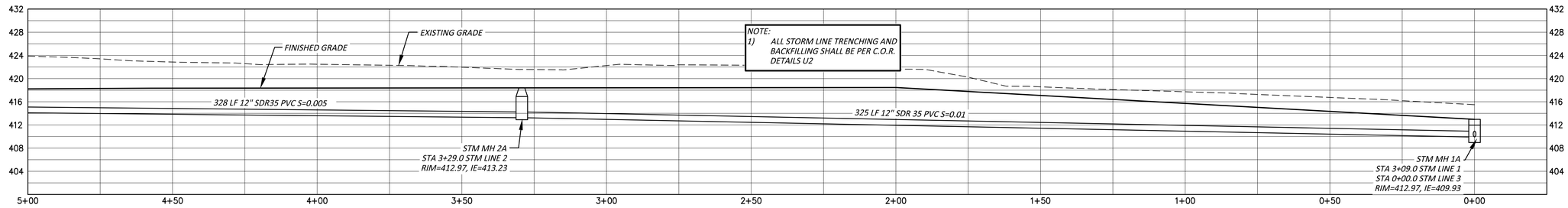
STORM LINE 1 AND 3 PLAN AND PROFILE

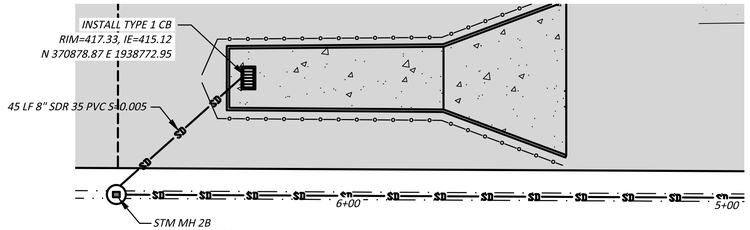
DATE | SCALE: AS SHOWN | MATERIAL | PREVIOUS DWG. NO.
DRAWN BY: RKB
CHK'D BY: RKB
DISCIPLINE: CIVIL | DWG. NO.: C301 | REV.: 0



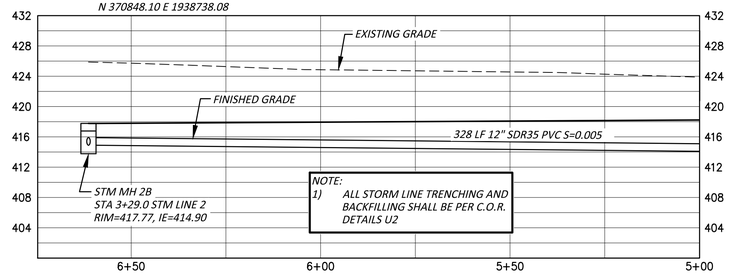
STORM LINE 2 PLAN



STORM LINE 2 PROFILE



STORM LINE 2 PLAN



STORM LINE 2 PROFILE

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DESCRIPTION:			PROJECT No: BY:
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DESCRIPTION:			PROJECT No: BY:

DWG. NO. | REFERENCE DRAWING

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2PL ±0.010 | 4PL ±0.0005 | ANGLE ± 1/2°

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STORM LINE 2 PLAN AND PROFILE

DATE	SCALE: AS SHOWN	MATERIAL	PREVIOUS DWG. NO.
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CHK'D BY: RKB			