

Indicate City-established benchmark (BM) used with number and elevation. [Civil Plans, C1]

Provide cut and fill quantities [Civil Plans, C1]

Provide construction sequence on TESDC Plan per Section 501.6 [Civil Plans, C1]

Provide soil stabilization note based on City Standard Section 501.5 [Civil Plans, C1]

Confirm correct Project Name. The permit was submitted as Keimig Self Storage. Remove "Conditional Use Permit" from project name. [Civil Plans, C1]

A PORTION OF THE SE ¼ OF SEC 27, TWP 20 N, RGE 04 E

5TH STREET CONDITIONAL USE PERMIT

IMPERVIOUS SURFACING

OFFSITE:
NEW: 338 SF
REPLACED: 0 SF
TOTAL (OFFSITE): 338 SF

ON-SITE:
NEW (PLAZA/WALK): 829 SF
NEW (PARKING): 2,087 SF
NEW (BUILDING): 4,028 SF
REPLACED: 0 SF
TOTAL (ON-SITE): 6,944 SF
TOTAL IMPERVIOUS: 7,282 SF

BUILDING DATA

FAR - GROSS FLOOR AREA - ZONING CODE
LEVEL 1 = 3,233.78 SF
LEVEL 2 - MEZZANINE = 888.59 SF
TOTAL = 4,122.36 SF

OCCUPANCY - GROSS FLOOR AREA - BUILDING CODE
TOTAL = 3,599.94 SF
GROUND LEVEL: 3,082.85 SF OF S-1 OCCUPANCY
MEZZANINE: 517.09 SF OF B OCCUPANCY

TYPE OF CONSTRUCTION
PER IBC: V-B

SITE DATA

SITE ADDRESS: 111 5TH ST SE
PUYALLUP WA, 98372

PARCEL NUMBER: 7285000112

SITE AREA GROSS: 10,000 SF = 0.23 AC

ZONING: CG - GENERAL COMMERCIAL

Add Other permits note referring to the conditional use permit and other related permits: Preapp, CUP, building, AMRs etc. [Civil Plans, C1]

PARKING

PARKING STALLS REQUIRED PER PMC 20.55.010(16) MANUFACTURING AND INDUSTRIAL USE:

EMPLOYEE WORK AREA (NET): 563.75 SF
STORAGE AREA (NET): 2,811.27 SF

(563.75 SF) X (1 SPACE/500 SF OF EMPLOYEE WORK AREA)
= 1.13 = 1 SPACE
(2,811.27 SF) X (1 SPACE/1000 SF OF STORAGE)
= 2.81 = 3 SPACES

PARKING PROVIDED: 4 SPACES

Replace PRELIMINARY SITE PLAN with CIVL PLANS. [Civil Plans, C1]

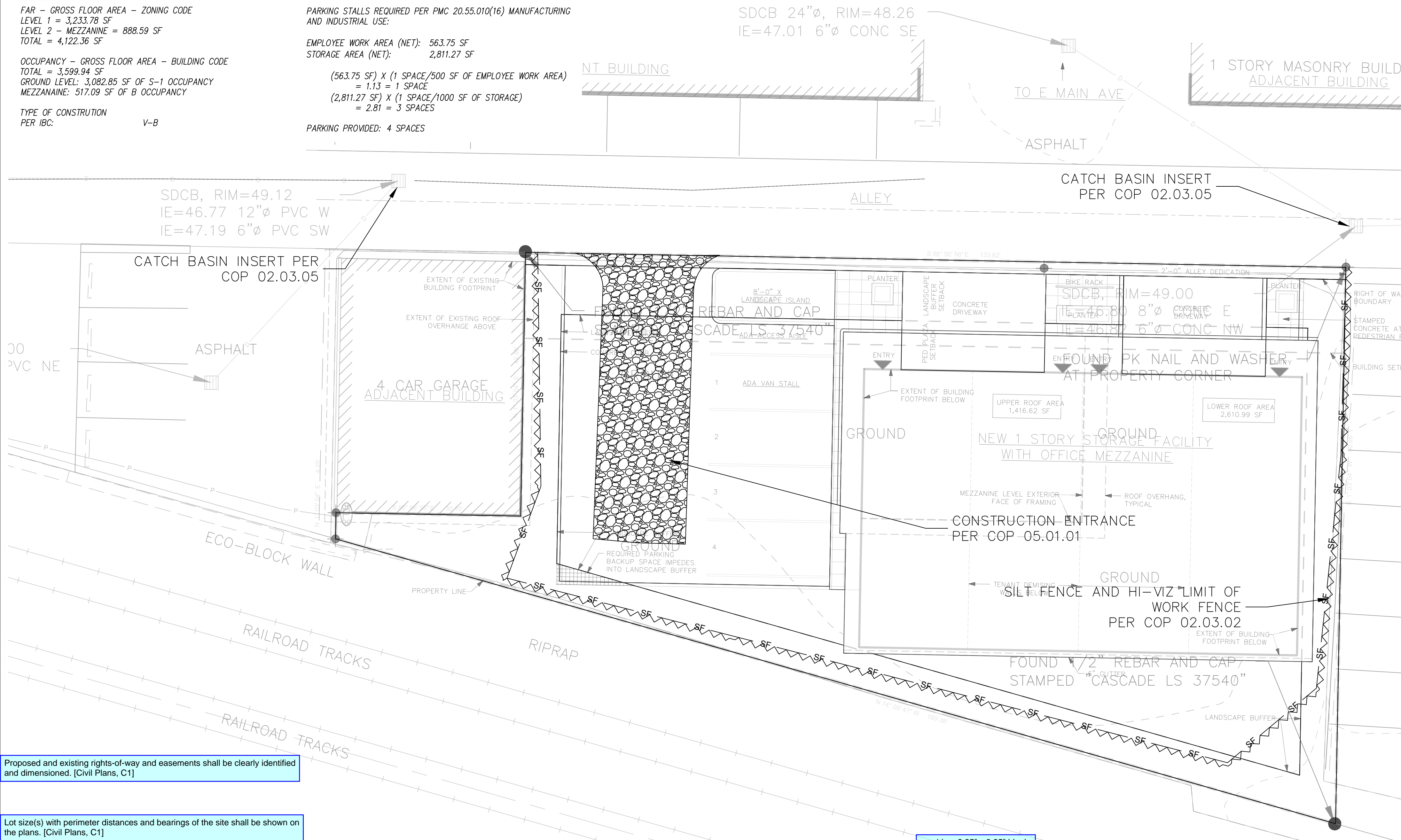
Copy of CUP conditions with responses to how and where they are being met. [Civil Plans, C1]

PRELIMINARY SITE PLAN

Add City General notes from City Standards Section 2.0 [Civil Plans, C1]

Submit stamped survey with Civil Plans [Civil Plans, C1]

Provide sheet index [Civil Plans, C1]



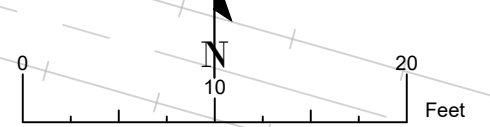
Proposed and existing rights-of-way and easements shall be clearly identified and dimensioned. [Civil Plans, C1]

Lot size(s) with perimeter distances and bearings of the site shall be shown on the plans. [Civil Plans, C1]

Show current zoning of site and of adjacent properties [Civil Plans, C1]

All plan sets shall reference the City of Puyallup Standard Details applicable for the project. Where a particular item is called out on the plans, a note shall be included on the drawing identifying the applicable City Standard Detail referencing the plan sheet the detail is located on and the City Standard number (i.e., for a fire hydrant located on the plans, the note should read "SEE CITY STANDARD NO. 03.05.01 ON SHEET 3 OF 3"). All other required details not standardized by the City of Puyallup shall be shown on a separate detail sheet.

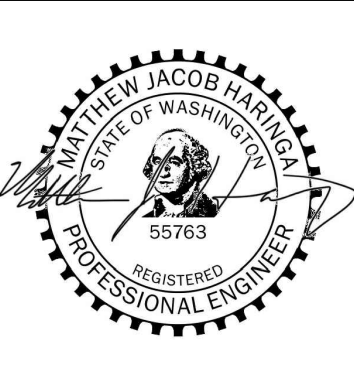
provide a 2.25" x 3.25" blank block for placeholder on each sheet in or next to title block for City approval stamp [Civil Plans, C1]



KEIMIG 5TH ST

Site Address: 111 5TH ST SE
Jurisdiction: Puyallup
Parcel No.: 728500-0112
Applicant: Samantha Keimig
Permit No.: PLCUP20220162
Interlaken Project No.: SEA-24-068

Interlaken Engineering and Design, PLLC
Seattle, WA | (206) 470-9572
www.interlakenengineering.com



Revisions:

C1

COVER/TESC

Scale: 1" = 10'

Add date to engineer stamp [Civil Plans, C1]

This is not the permit number for this project [Civil Plans, C1]

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.
2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.
3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards").
4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.
5. Any revisions made to these plans must be reviewed and approved by the developer's engineer and the city engineer prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.
6. The contractor shall have all utilities verified on the ground prior to any construction. Call at least two working days hours in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.
7. All limits of clearing and areas of vegetation preservation as prescribed on the plans shall be clearly flagged in the field and observed during construction.
8. All required sedimentation and erosion control facilities must be constructed and in operation prior to any land clearing and/or other construction to ensure that sediment laden water does not enter the natural drainage system. The contractor shall schedule an inspection of the erosion control facilities PRIOR to any land clearing and/or other construction. All erosion and sediment facilities shall be maintained in a satisfactory condition as determined by the City, until such time that clearing and/or construction is completed and the potential for on-site erosion has passed. The implementation, maintenance, replacement, and additions to the erosion and sedimentation control systems shall be the responsibility of the permittee.
9. The erosion and sedimentation control system facilities depicted on these plans are intended to be minimum requirements to meet anticipated site conditions. As construction progresses and unexpected or seasonal conditions dictate, facilities will be necessary to ensure complete siltation control on the site. During the course of construction, it shall be the obligation and responsibility of the permittee to address any new conditions that may be created by his activities and to provide additional facilities, over and above the minimum requirements, as may be needed to protect adjacent properties, sensitive areas, natural water courses, and/or storm drainage systems.
10. Approval of these plans is for grading, temporary drainage, erosion and sedimentation control only. It does not constitute an approval of permanent storm drainage design, size or location of pipes, restrictors, channels, or retention facilities.
11. Any disturbed area which has been stripped of vegetation and where no further work is anticipated for a period of 30 days or more, must be immediately stabilized with mulching, grass planting, or other approved erosion control treatment applicable to the time of year in question. Grass seeding alone will be acceptable only during the months of April through September inclusive. Seeding may proceed outside the specified time period whenever it is in the interest of the permittee but must be augmented with mulching, netting, or other treatment approved by the City.
12. In case erosion or sedimentation occurs to adjacent properties, all construction work within the development that will further aggravate the situation must cease, and the owner/contractor will immediately commence restoration methods. Restoration activity will continue until such time as the affected property owner is satisfied.
13. No temporary or permanent stockpiling of materials or equipment shall occur within critical areas or associated buffers, or the critical root zone for vegetation proposed for retention.



CITY OF PUYALLUP

STANDARD NOTES FOR DRAINAGE PLANS

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting (253) 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.
2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.
3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards").
4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.
5. Any revisions made to these plans must be reviewed and approved by the developer's engineer and the Engineering Services Staff prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.
6. The contractor shall have all utilities verified on the ground prior to any construction. Call 811 at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.
7. Any structure and/or obstruction which require removal or relocation relating to this project, shall be done so at the developer's expense.
8. During construction, all existing and newly installed drainage structures shall be protected from sediments.
9. All storm manholes shall conform to City Standard Detail No. 02.01.01. Flow control manhole/oil water separator shall conform to City Standard Detail No. 02.01.06 and 02.01.07.
10. Manhole ring and cover shall conform to City Standard Detail 06.01.02.
11. Catch basins Type I shall conform to City Standard Detail No.02.01.02 and 02.01.03 and shall be used only for depths less than 5 feet from top of the grate to the invert of the storm pipe.
12. Catch basins Type II shall conform to City Standard Detail No.02.01.04 and shall be used for depths greater than 5 feet from top of the grate to the invert of the storm pipe.
13. Cast iron or ductile iron frame and grate shall conform to City Standard Detail No.02.01.05. Grate shall be marked with "drains to stream". Solid catch basin lids (square unless noted as shall conform to WSDOT Standard Plan B-30.20-04 (Olympic Foundry No. SM60 or equal). Vaned grates shall conform to WSDOT Standard Plan B-30.30-03 (Olympic Foundry No. SM60V or equal).
14. Stormwater pipe shall be only PVC, concrete, ductile iron, or dual walled Polypropylene pipe.
 - a. The use of any other type shall be reviewed and approved by the Engineering Services Staff prior to installation.
 - b. PVC pipe shall be per ASTM D3034, SDR 35 for pipe size 15-inch and smaller and F679 for pipe sizes 18 to 27 inch. Minimum cover on PVC pipe shall be 3.0 feet.
 - c. Concrete pipe shall conform to the WSDOT Standard Specifications for concrete underdrain pipe. Minimum cover on concrete pipe shall not less than 3.0 feet. Ductile iron pipe shall be Class 50, conforming to AWWA C151. Minimum cover on ductile iron pipe shall be 1.0 foot.
 - d. Polypropylene Pipe (PP) shall be dual walled, have a smooth interior and exterior corrugations and meet WSDOT 9-05.24(1). 12-inch through 30-inch pipe shall meet or exceed ASTM F2736 and AASHTO M330, Type S, or Type D. 36-inch through 60-inch pipe shall meet or exceed ASTM F2881 and AASHTO M330, Type S, or Type D. Testing shall be per ASTM F1417. Minimum cover over Polypropylene pipe shall be 3-feet.
15. Trenching, bedding, and backfill for pipe shall conform to City Standard Detail No. 06.01.01.
16. Storm pipe shall be a minimum of 10 feet away from building foundations and/or roof lines.
17. All storm drain mains shall be tested and inspected for acceptance as outlined in Section 406 of the City of Puyallup Sanitary Sewer System Standards.
18. All temporary sedimentation and erosion control measures, and protective measures for critical areas and significant trees shall be installed prior to initiating any construction activities.

SEE C1 FOR TESC/NOTES
SEE C3 FOR UTILITY EXTENSION

KEIMIG 5TH ST

Site Address: 111 5TH ST SE

Jurisdiction: Puyallup

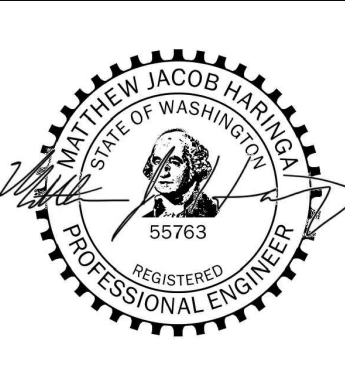
Parcel No.: 728500-0112

Applicant: Samantha Keimig

Permit No.: PLCUP20220162

Interlaken Project No.: SEA-24-068

Interlaken Engineering and Design, PLLC
Seattle, WA | (206) 470-9572
www.interlakenengineering.com

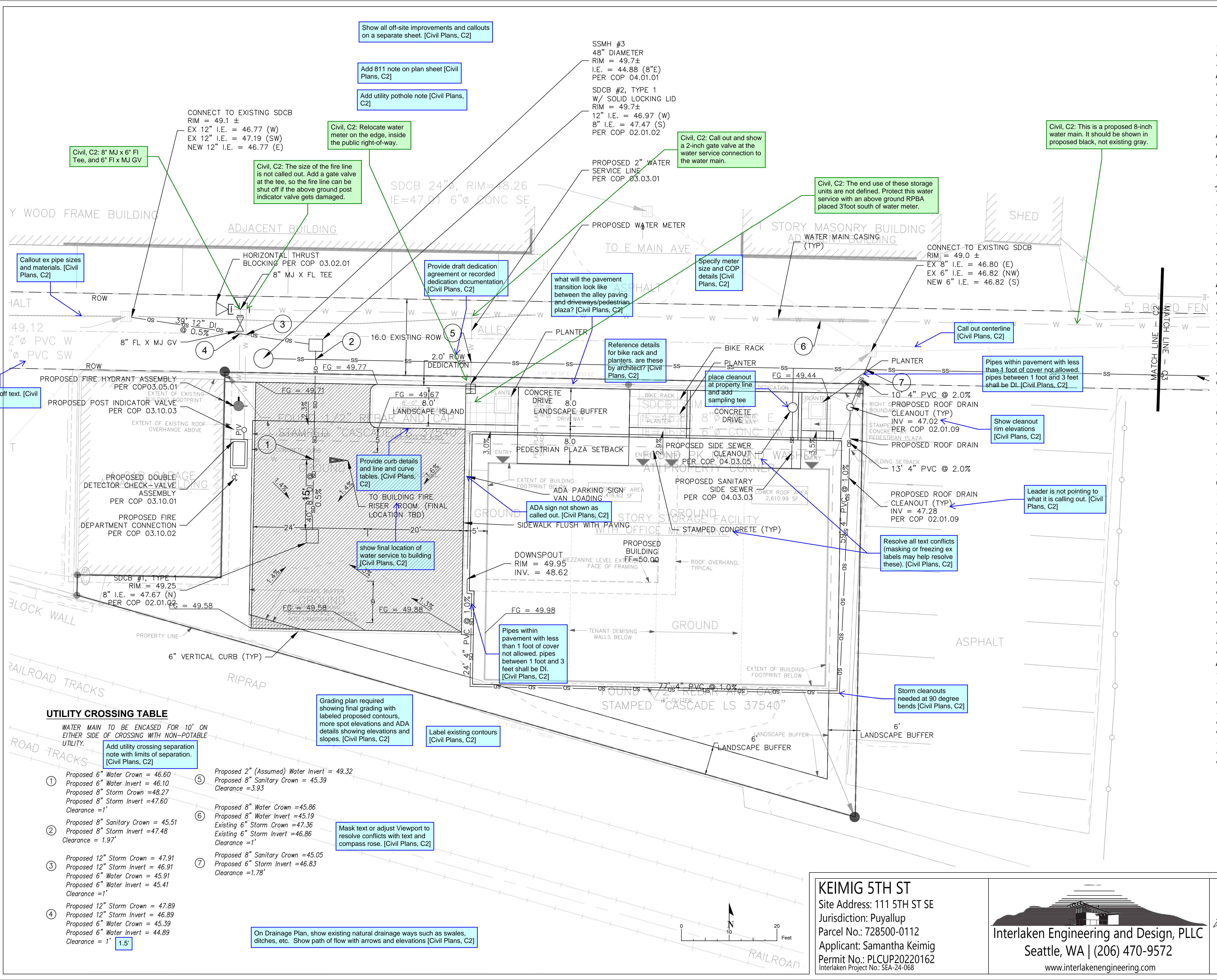


Revisions:

C2

Utility Site Plan

Scale: 1" = 10'



UTILITY CROSSING TABLE

WATER MAIN TO BE ENCASED FOR 10' ON EITHER SIDE OF CROSSING WITH NON-POTABLE UTILITY.

Add utility crossing separation note with limits of separation. [Civil Plans, C2]

1. Proposed 6" Water Crown = 46.60
Proposed 6" Water Invert = 46.10
Proposed 8" Storm Crown = 48.27
Proposed 8" Storm Invert = 47.60
Clearance = 1'
2. Proposed 8" Sanitary Crown = 45.51
Proposed 8" Storm Invert = 47.48
Clearance = 1.97'
3. Proposed 12" Storm Crown = 47.91
Proposed 12" Storm Invert = 46.91
Proposed 6" Water Crown = 45.91
Proposed 6" Water Invert = 45.41
Clearance = 1'
4. Proposed 12" Storm Crown = 47.89
Proposed 12" Storm Invert = 46.89
Proposed 6" Water Crown = 45.39
Proposed 6" Water Invert = 44.89
Clearance = 1'

5. Proposed 2" (Assumed) Water Invert = 49.32
Proposed 8" Sanitary Crown = 45.39
Clearance = 3.93
6. Proposed 8" Water Crown = 45.86
Proposed 8" Water Invert = 45.19
Existing 6" Storm Crown = 47.36
Existing 6" Storm Invert = 46.86
Clearance = 1'
7. Proposed 8" Sanitary Crown = 45.05
Proposed 6" Storm Invert = 46.83
Clearance = 1.78'

Mask text or adjust Viewport to resolve conflicts with text and compass rose. [Civil Plans, C2]

On Drainage Plan, show existing natural drainage ways such as swales, ditches, etc. Show path of flow with arrows and elevations [Civil Plans, C2]

Label existing contours [Civil Plans, C2]

Grading plan required showing final grading with labeled proposed contours, more spot elevations and ADA details showing elevations and slopes. [Civil Plans, C2]

Pipes within pavement with less than 1 foot of cover not allowed. pipes between 1 foot and 3 feet shall be DL [Civil Plans, C2]

ADA sign not shown as called out [Civil Plans, C2]

ADA sign not shown as called out [Civil Plans, C2]

Provide curb details and line and curve tables. [Civil Plans, C2]

Provide draft dedication agreement or recorded dedication documentation. [Civil Plans, C2]

what will the pavement transition look like between the alley paving and driveways/pedestrian plaza? [Civil Plans, C2]

Reference details for bike rack and planters, are these by architect? [Civil Plans, C2]

place cleanout at property line and add sampling tee

Specify meter size and COP details [Civil Plans, C2]

Civil, C2: Call out and show a 2-inch gate valve at the water service connection to the water main.

Civil, C2: The end use of these storage units are not defined. Protect this water service with an above ground RPBA placed 3' south of water meter.

Civil, C2: This is a proposed 8-inch water main. It should be shown in proposed black, not existing gray.

Civil, C2: Relocate water meter on the edge, inside the public right-of-way.

Civil, C2: The size of the fire line is not called out. Add a gate valve at the tee, so the fire line can be shut off if the above ground post indicator valve gets damaged.

Civil, C2: 8" MJ x 6" FI Tee, and 6" FI x MJ GV

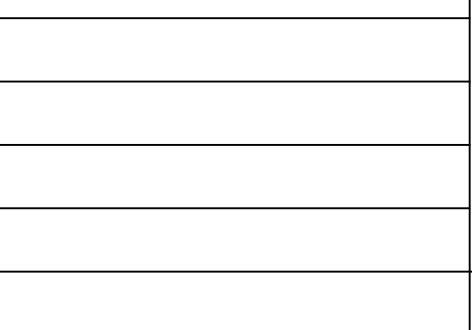
Show all off-site improvements and callouts on a separate sheet. [Civil Plans, C2]

Add 811 note on plan sheet [Civil Plans, C2]

Add utility pothole note [Civil Plans, C2]

Callout ex pipe sizes and materials. [Civil Plans, C2]

Remove cut off text. [Civil Plans, C2]



CITY OF PUYALLUP
STANDARD NOTES FOR WATER SYSTEM PLANS

General Notes:

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the Project owner and appropriate City staff. Contact Engineering Services to schedule the meeting (253) 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.
2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a “punch list” prepared by the City’s inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.
3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the “Standard Specifications”), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the “City Standards”), or as directed by Fruitland Mutual Water Company (FMWC), Valley Water (VW), or Tacoma City Water (TCW) is the purveyor.
4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.
5. Any revisions made to these plans must be reviewed and approved by the developer’s engineer, the Engineering Services Staff, and the FMWC, VW or TCW when served by that purveyor, prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.
6. The contractor shall have all utilities verified on the ground prior to any construction. Call (811) at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.
7. Any structure and/or obstruction which requires removal or relocation relating to this project shall be done so at the developer’s expense.
8. Bacteriological (Coliform and Iron Bacteria) test samples will be taken by the City (or FMWC, VW or TCW when served by that purveyor) and paid for by the contractor, except for Capital Improvement Projects (CIP) which shall be paid for by the City.
9. Water mains shall have a minimum cover of 36 inches from paved final grade in improved right-of-way and improved easements, and a minimum of 48 inches in unimproved right-ofway and unimproved easements.
10. Pipe for water mains shall be ductile iron conforming to Section 7-09 of the Standard Specifications, Class 52 with tyton or approved equal joints. Pipe shall be cement lined in accordance with A.S.A. Specification A 21.4-1964.
11. Connections to existing water mains typically shall be wet taps through a tapping tee and tapping valve and shall be made by a city approved contractor. The tapping sleeve shall be Romac SST all stainless steel tapping sleeve or approved equal. A two-piece epoxy coated or ductile iron tapping sleeve may be used on ductile iron pipe, when the tap is smaller than the water main size i.e. 6-inch tap on 8-inch pipe. The City (or FMWC, VW or TCW when served by that purveyor) shall approve the time and location for these connections.
12. All water mains and appurtenances shall be hydrostatically tested at 200 psi in accordance with Standard Specification 7-09.3(23). Pressure testing shall not be performed until satisfactory purity samples have been received, except when new water mains are installed independently from the water system piping.
13. Fire hydrants shall be installed in accordance with City Standard Detail 03.05.01 and as directed by the City of Puyallup Fire Code Official.
14. Valve marker posts shall be installed where valve boxes are hidden from view or in unpaved The installation shall be in accordance with City Standard Detail 03.01.02.
15. Resilient seated wedge gate valves shall be used for 10-inch mains and smaller. Butterfly valves shall be used for mains greater than 10 inches.
16. Pipe fitting for water mains shall be ductile iron and shall be mechanical joint conforming to AWWA Specification C111-72.
17. Water main pipe and service connections shall be a minimum of 10 feet away from building foundations and/or roof lines.
18. Where a water main crosses the Northwest Gas pipeline, the water line shall be cased with PVC pipe a minimum of 10 feet beyond each side of the gas line easement. Contact Williams Northwest Pipeline before the crossing is made.
19. Trenching, bedding, and backfill for water mains shall be installed in accordance with City Standard Detail 06.01.01.
20. All commercial and industrial developments, irrigation systems, and multi-family water service connections shall be protected by a double check valve assembly or a reduced pressure backflow assembly as directed by the City (or FMWC, VW or TCW when served by that purveyor) conforming to City Standard Details 03.04.01, 03.04.02, and 03.04.03.
21. Any lead joint fitting disturbed during construction shall be replaced with a mechanical joint fitting at the contractor’s expense.
22. Hydraulic fire flow modeling shall be required for formal plats within or to be annexed into the City of Puyallup’s water service area. The developer shall be responsible to apply for a hydraulic model permit prior to plat review. The hydraulic modeling criteria is based on the projected water demand while maintaining a minimum system pressure of 20 pounds per square inch (PSI) and a maximum velocity of 10 feet per second.
23. When using a fire hydrant for non-firefighting purposes, a city hydrant meter must be used. Coordinate the acquisition of the hydrant meter with the City’s Utility Billing Division at Puyallup City Hall. A city approved backflow protection assembly shall be installed by the person requesting use of a fire hydrant. The assembly shall be accompanied by a current backflow assembly test report. The test report shall be available at the site for the duration of the hydrant use.
24. Should a break occur on any City water main, the Contractor shall follow the City’s adopted “Water Main Break Procedure” issued to them at the Pre-Construction Meeting and notify those connected to the system in the impacted area as outlined in the Procedure.

25. Water Main Repairs (References: AWWA C651-14 and WSDOT Standard Specification Section 7-09) (Note: A planned water main repair shall be approved by the City Inspector and/or Water Division Supervisor prior to commencing work.)
 - a. Repair without depressurization – Small leaks shall be repaired using repair bands while maintaining positive pressure in the water main. Valves surrounding the leak will be partially shut by the City Water Department to reduce the flow and pressure to the area. Blowoffs and hydrants in the reduced pressure area may be opened as needed to further reduce the pressure. The water main trench shall be over-excavated to allow water in the trench to be pumped out and maintained below the level of the water main. The repair shall be completed with the water main pressure remaining positive. After the repair is made, the system shall be fully pressurized and a visual leak inspection will be completed. The water main in the affected area shall be flushed to achieve three pipe volumes pulled from the pipe (distance measured from valve opened for flushing to the exit hydrant or blowoff).
 - b. Repair/cut-in with depressurization – Trench shall be over excavated and dewatered below the water main. Flush water from pipe from each direction until it runs clear. Immediately prior to installation of a new pipe section for repair or cut in tee, all new fittings and pipe spools shall be swabbed with a five percent (5%) chlorine solution (minimum). The interior of the existing pipe shall be swabbed with a five percent (5%) chlorine solution at least 6 feet in each direction from exposed cut ends. The water main in the affected area shall be flushed to achieve three pipe volumes pulled from the pipe (distance measured from the valve opened for flushing to the exit hydrant or blowoff). Customers shall be notified after the water main is flushed and repairs have been completed, as outlined in the “Water Main Break Procedure.”
26. New Water Main Installation:
 - a. Each new water main section shall be delivered, stacked and stored onsite with ends plugged. The plugs shall remain in the pipe until each particular section is installed. National Sanitation Foundation (NSF) approved sixty-five percent (65%) calcium hypochlorite shall be added to the upstream end of each pipe section, and at each hydrant tee in the amount given in the table below (or per approved manufacturer specifications). The minimum amount of calcium hypochlorite added should be sufficient to achieve a 50 mg/L concentration within the impacted area.

Pipe Diameter (Inches)	Pipe Volume per 18 feet (gal)	5-gram tablets per pipe section	Hypochlorite Granules Ounces per 500 feet	Teaspoons per 18 feet	Maximum Fill Rate (gpm)
4	35	1	1.7	0.2	40
6	53	1	3.8	0.4	90
8	70	2	6.7	0.7	150
12	106	4	15.1	1.4	350
16	141	6	27	2.5	600
 - b. New water mains shall be filled using an approved backflow prevention assembly. The water main shall be filled from the lower elevation end so that as the water main is filled, the chorine is contacted, dissolved and spread relatively uniform through the length of the new water main. The fill rate shall be minimized so that the velocity of the water is less than 1 ft/sec (see table above). Successful pressure test and bacteriological tests shall be completed and provided to the City prior to any new mater main connection to the existing water system.
 - c. The chlorinated water will be allowed to remain in contact with the new water main system for 24 to 72 hours. After 24 hours, water may be added to the water main for the purposes of pressure testing. The water in the main used for pressure testing must remain in the water main until pressure test is completed. If necessary, liquid chlorine shall be injected into the water main with fill water to maintain a concentration in the water main above 50 mg/L. Under no circumstance shall “super” chlorinated water be allowed to sit within a new water main for more than 5 days.
 - d. Pressure testing includes testing against new valves and hydrants. Each valve shall be tested by closing each in turn and reducing the pressure beyond the valve. The pressure on the back side of the valve should not be eliminated. Care must be taken that, during this process, positive pressure remains throughout the system being tested at all times. All hydrant foot valves shall be open during pressure testing so that the pressure test is against the hydrant valve. Pressure testing will not be allowed against any existing valves.
 - e. After successful pressure testing, the water main shall be thoroughly flushed to remove all “super” chlorinated water from the new water main. Flushing of new or extended water mains shall be conducted per WSDOT Specification 7-09.3(24)A with a minimum velocity developed within the pipe while flushing of 2.5 feet per second (fps). All flushed water shall be dechlorinated prior to disposal. The Contractor shall be responsible for disposal of all chlorinated water flushed from mains. The City shall approve the disposal method prior to implementation in the field. The Contractor shall utilize onsite disposal methods, if available. Disposal of flush water to the sanitary sewer system shall not be allowed without written permission from the Water Pollution Control Plant Supervisor. Any planned discharge to a stormwater system shall be dechlorinated to a concentration of 0.1 ppm or less, pH adjusted (if necessary) to be between 6.5 and 8.5, and volumetrically and velocity controlled to prevent any resuspension of sediments. The City will require independent testing throughout the water discharge process to ensure compliance of these standards are met.
 - f. Samples for bacteriological analysis shall be collected after flushing and again 24 hours after the first set of samples.
 - g. All closure/final connection fittings shall be sprayed clean and then swabbed with a five percent (5%) chlorine solution immediately prior to installation per AWWA Standard C651. Additional samples for bacteriological analysis shall be collected from the immediate vicinity of the new or replaced water main and analyzed after the final connections are made. If necessary, additional flushing shall be conducted and additional samples shall be collected until satisfactory results are obtained.

CITY OF PUYALLUP
STANDARD NOTES FOR SEWER PLANS

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.
2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a “punch list” prepared by the City’s inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the sewer system and provision of sanitary sewer service.
3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the “Standard Specifications”), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the “City Standards”).
4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.
5. Any revisions made to these plans must be reviewed and approved by the developer’s engineer and the Engineering Services Staff prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.
6. The contractor shall have all utilities verified on the ground prior to any construction. Call at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.
7. Any structure and/or obstruction which require removal or relocation relating to this project shall be done so at the developer’s expense.
8. Minimum grade on all 4 inch residential side sewers shall be 2 percent and 6 inch commercial side sewers shall be 1 percent; maximum shall be 8 percent. All side sewers shall be 6 inches within City right-of-way.
9. Side sewers shall be installed in accordance with City Standard Nos. 04.03.01, 04.03.02, 04.03.03 and 04.03.04. Side sewer installation work shall be done in accordance with the Washington Industrial Safety and Health Act (WISHA).
10. All sewer pipe shall be PVC, Polypropylene, or Ductile Iron. PVC sewer pipe shall conform to ASTM D-3034, SDR35 for pipe sizes 15-inch and smaller and ASTM F679 for pipe sizes 18- to 27-inch, ductile iron pipe shall be Class 51 or greater, lined with Protecto 401TM epoxy lining or equivalent, unless otherwise noted. 12-inch through 30-inch Polypropylene Pipe (PP) shall be dual walled, have a smooth interior and exterior corrugations and meet WSDOT 9-05.24(2). It shall meet or exceed ASTM F2764. 36-inch through 60-inch PP pipe shall be triple walled and meet WSDOT 9-05.24(2). It shall meet or exceed ASTM F2764. PP shall have a minimum pipe stiffness of 46 pii when tested in accordance with ASTM D2412. Testing shall be per ASTM F1417. Trenching, bedding, and backfill shall be in accordance with City Standard No. 06.01.01. Minimum cover on PVC and PP pipe shall be 3.0 feet. Minimum cover on ductile iron pipe shall be 1.0 foot.
11. Sanitary sewer manhole frames and covers shall conform to City Standard No. 06.01.02.
12. Sanitary sewer manholes shall conform to City Standard Nos. 04.01.01, 04.01.02, 04.01.03 and 04.01.04. All manholes shall be channeled for future lines as specified on these plans. Manhole steps and ladder shall conform to Standard No. 06.01.03.
13. Sanitary sewer pipe and side sewers shall be 10 feet away from building foundations and/or roof lines with the exception of side sewers that provide service to a single-family residence. At the discretion of the review engineer, a Licensed Professional Engineer will be required to stamp the design to account for depth or proximity to foundation, steep slopes, or other factors.
14. No side sewers shall be connected to any house or building until all manholes are adjusted to the finished grade of the completed asphalt roadway and the asphalt patch and seal around the ring are accepted.
15. For commercial developments in which sources of grease and/or oils may be introduced to the City sanitary sewer system, a City approved grease interceptor shall be installed downstream from the source.
16. Once sewer and all other utility construction is completed, all sanitary sewer mains and side sewers shall be tested per Section 406 of the City Standards.

SEE C1 FOR TESC/NOTES
SEE C2 FOR UTILITY SITE PLAN
SEE C3 FOR UTILITY EXTENSION PLAN

KEIMIG 5TH ST

Site Address: 111 5TH ST SE
Jurisdiction: Puyallup
Parcel No.: 728500-0112
Applicant: Samantha Keimig
Permit No.: PLCUP20220162
Interlaken Project No.: SEA-24-068

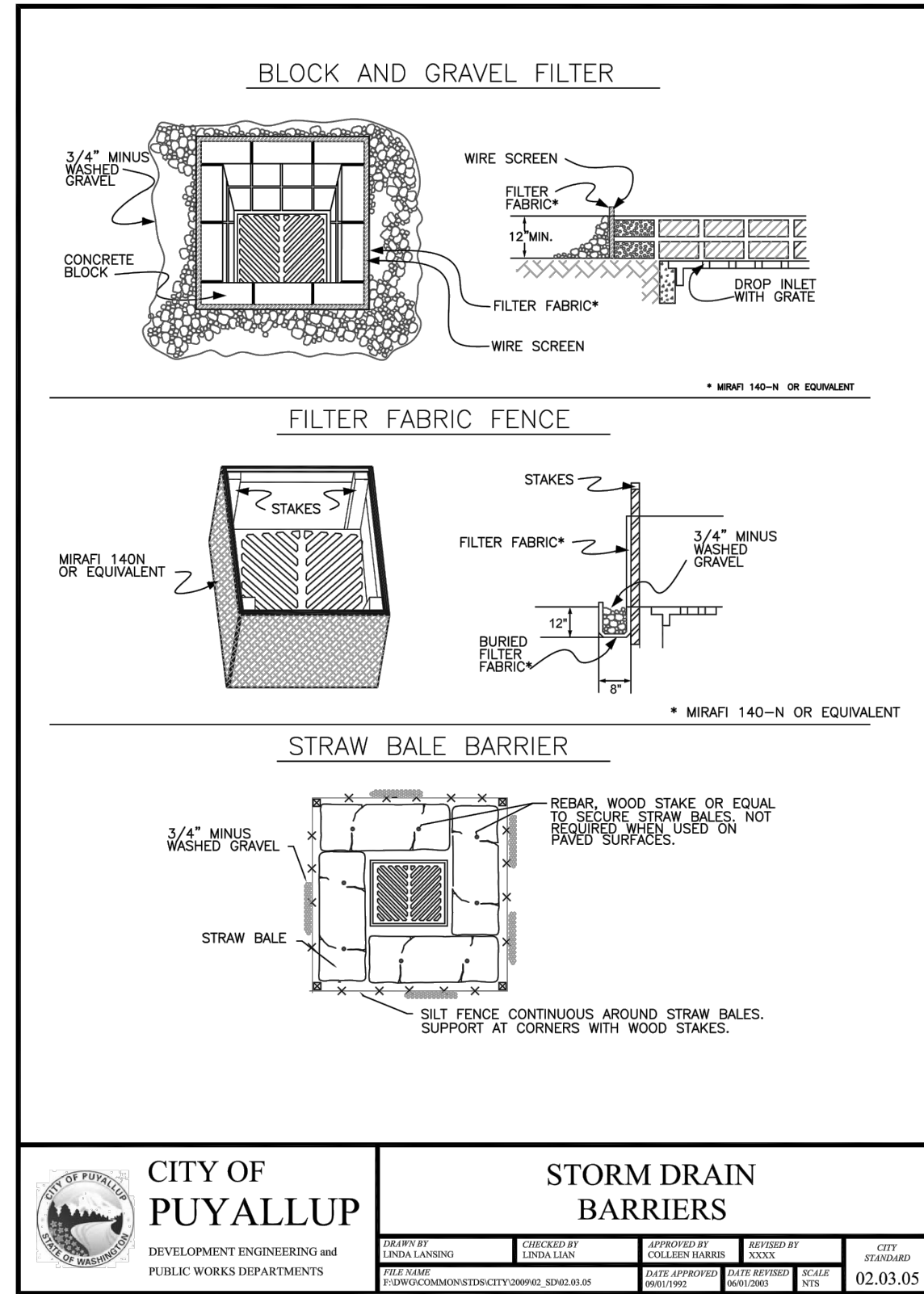
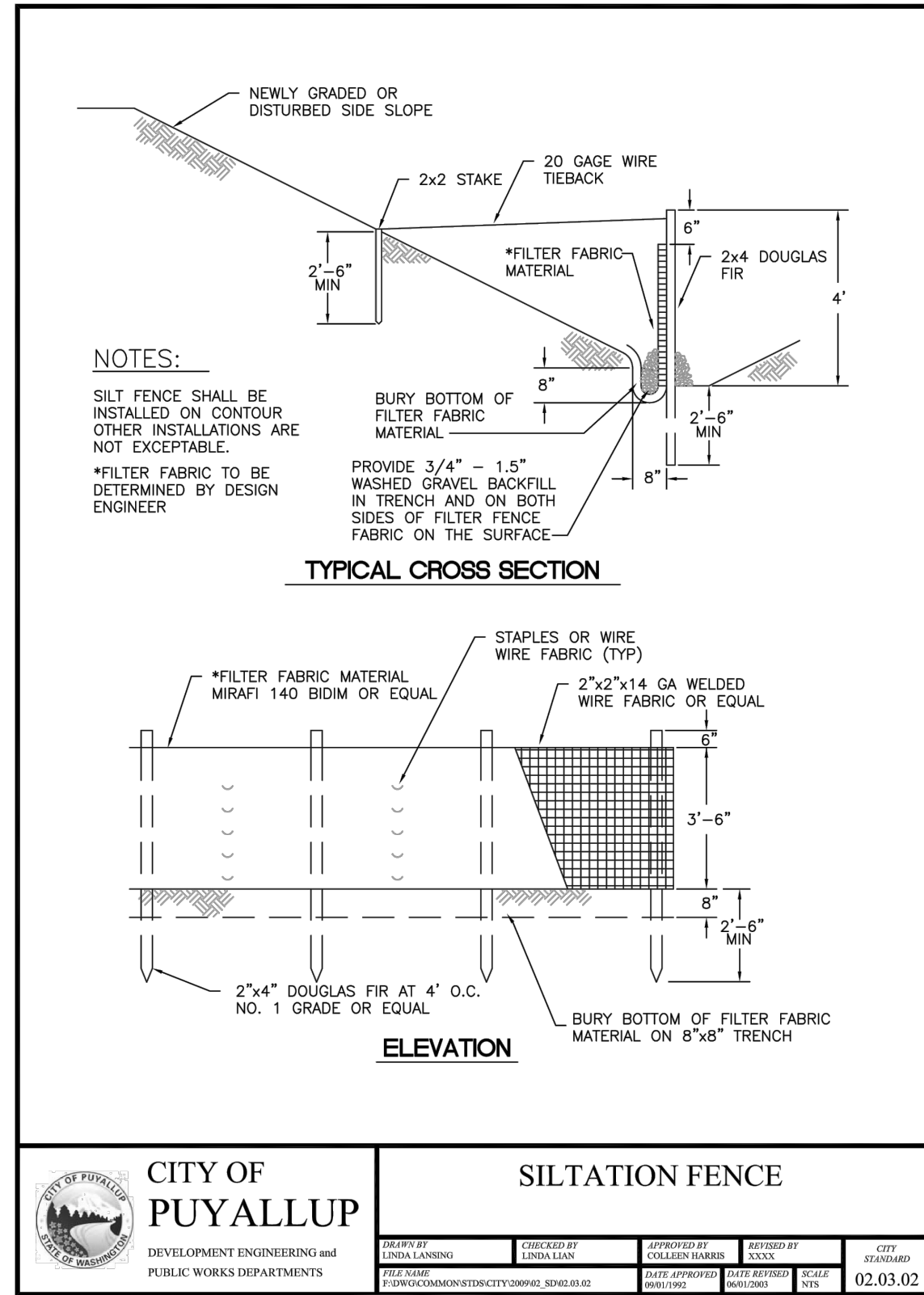
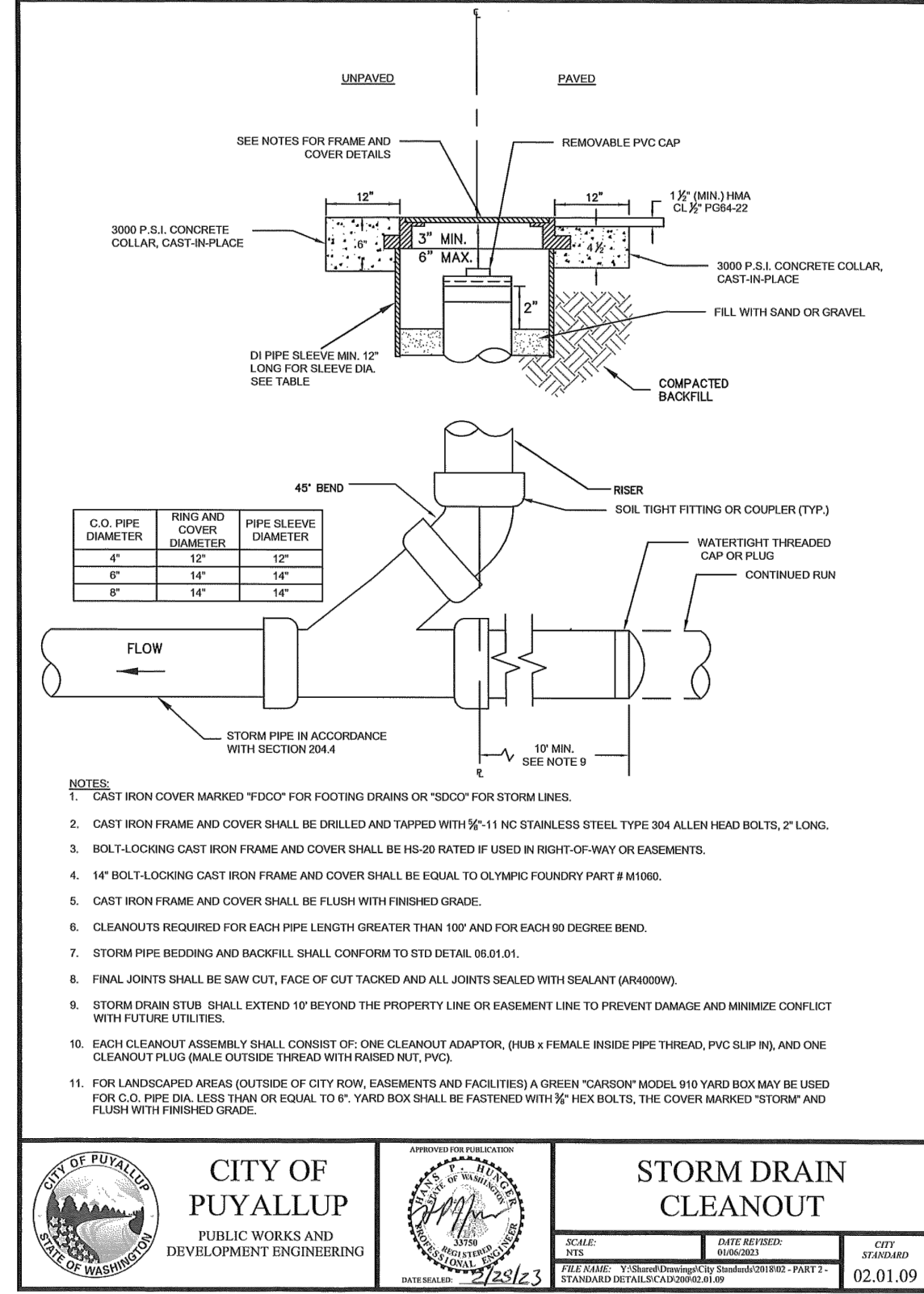
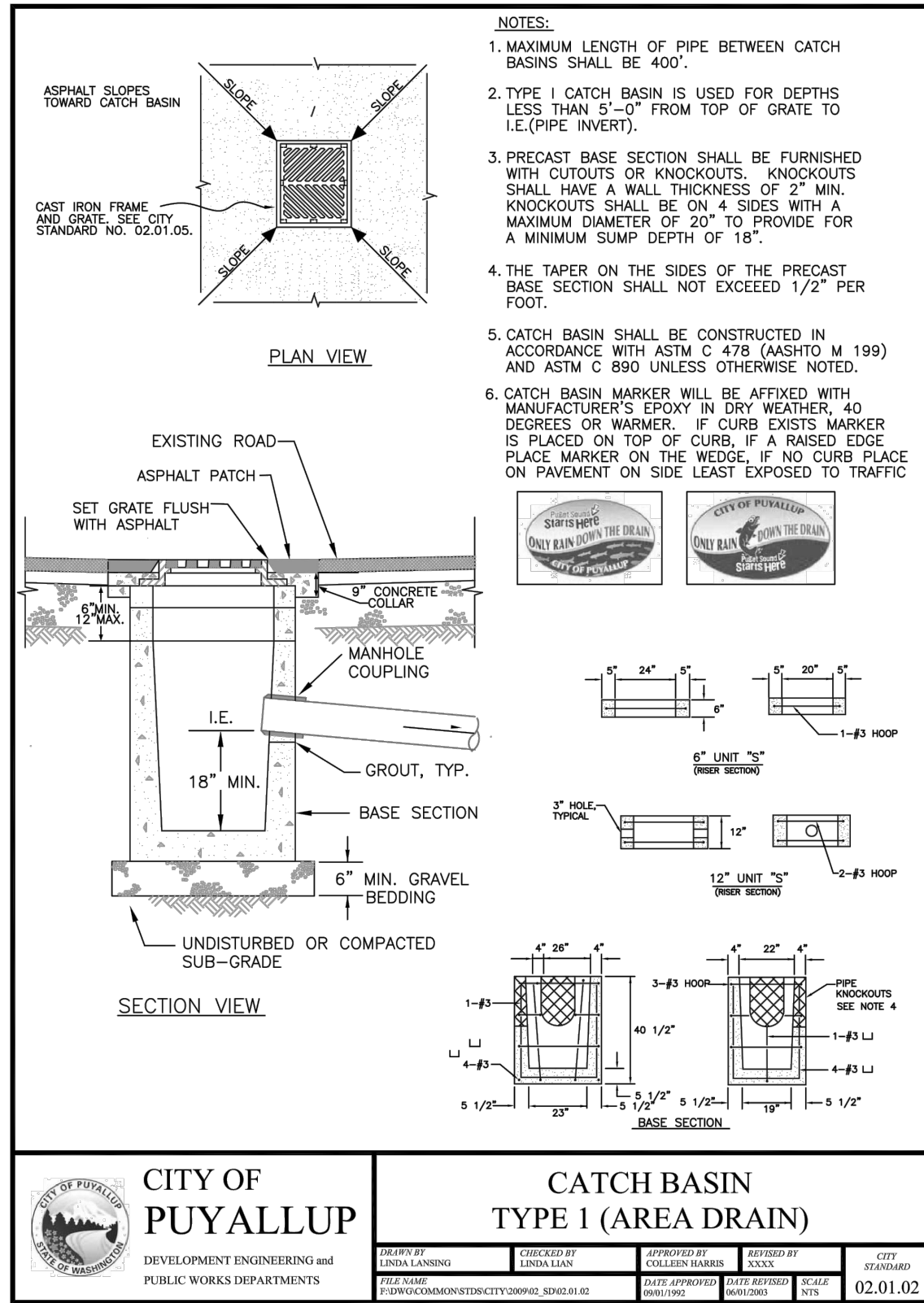


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Revisions:	

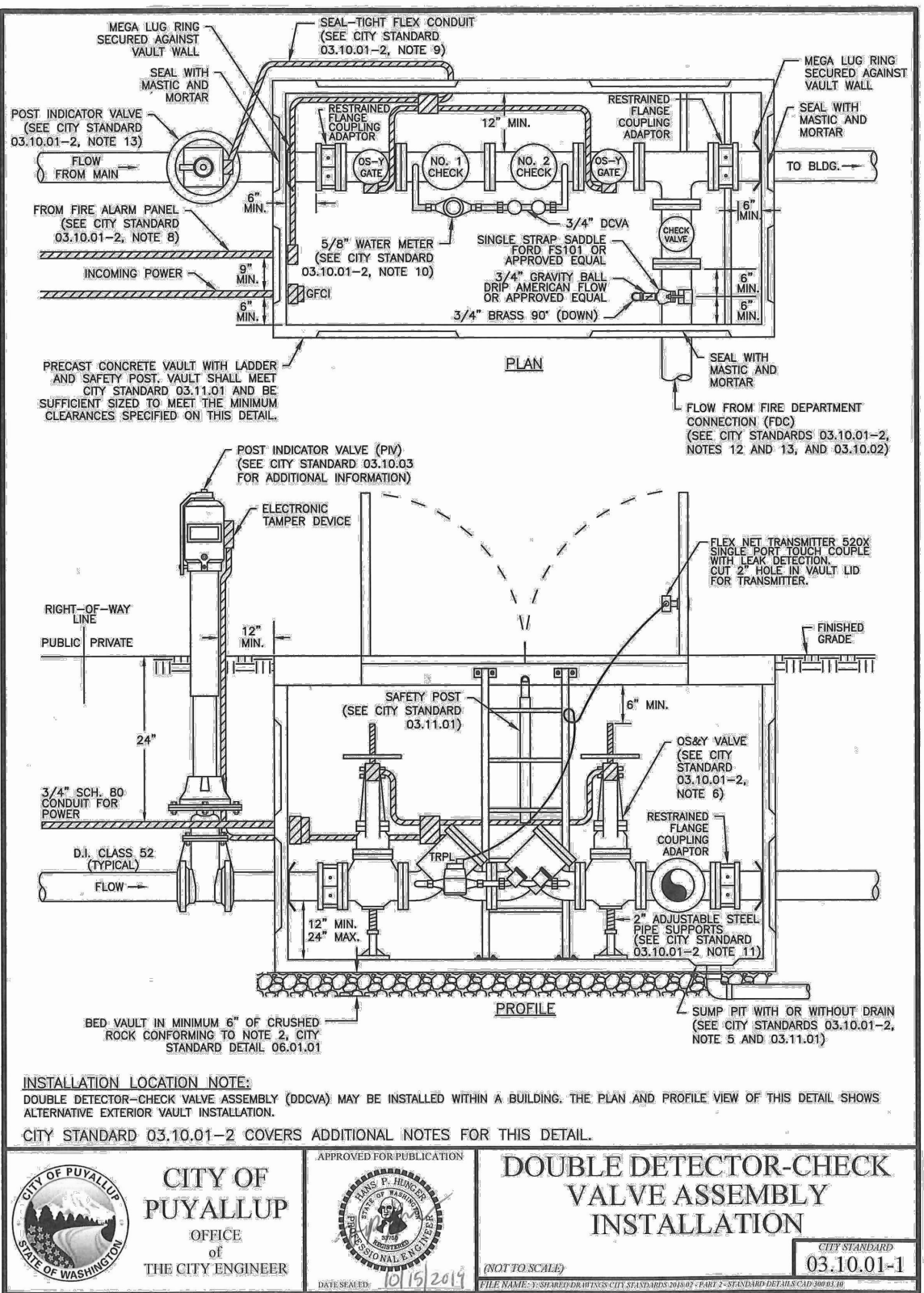
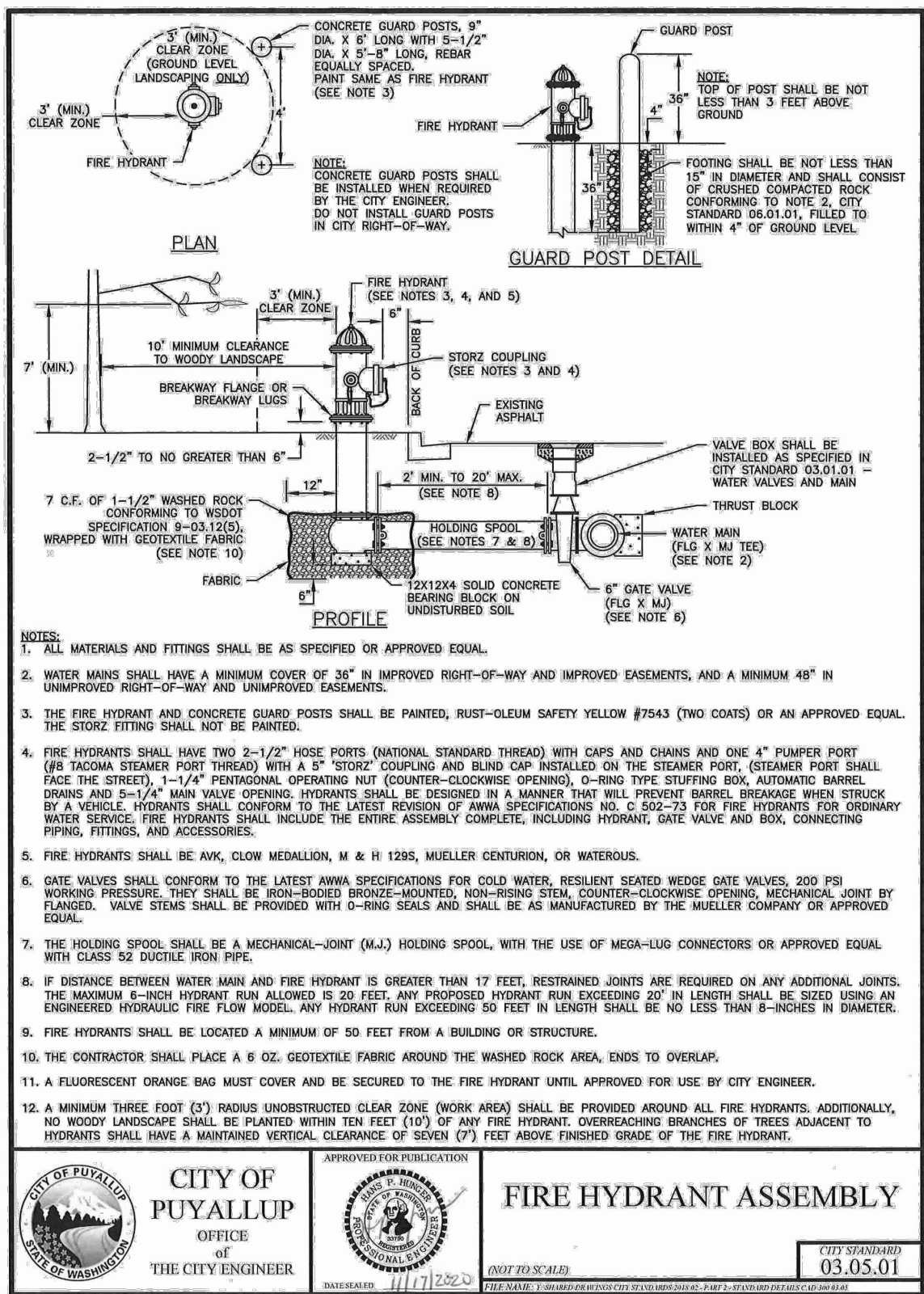
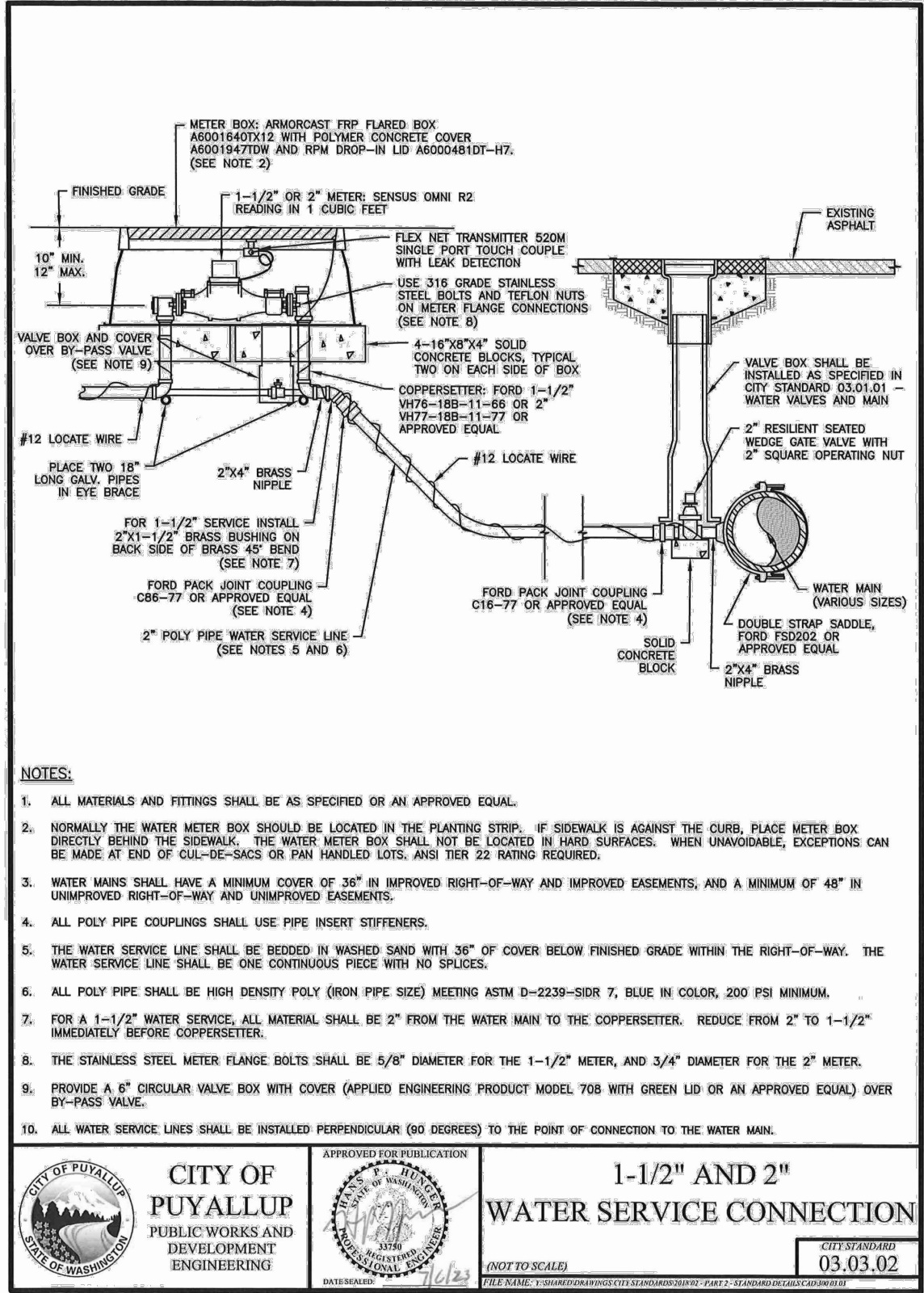
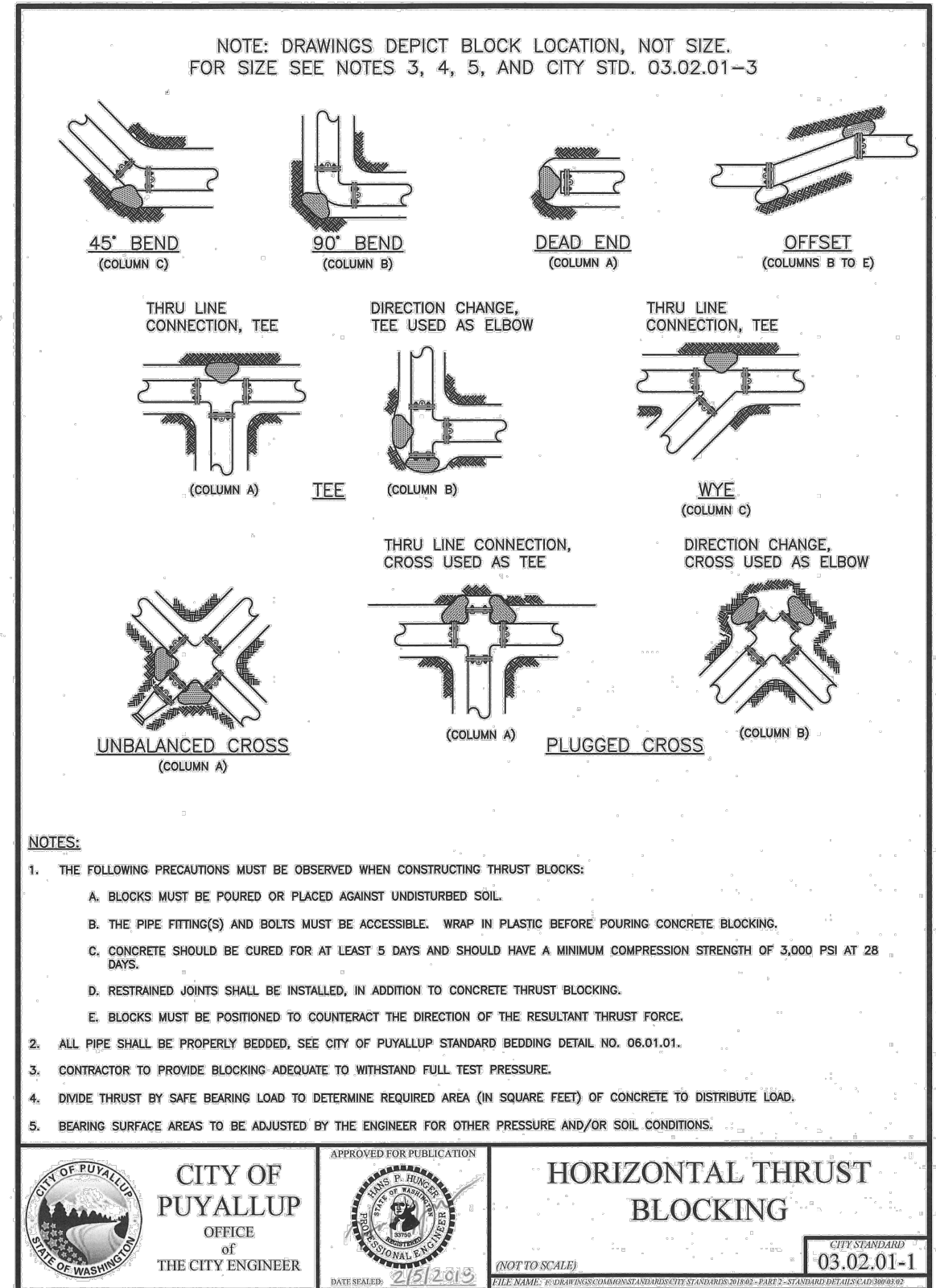
C4
Utility Extension Notes
Scale: Not to Scale



Provide the following details and any others that apply:

- alley cross section
- half street improvement
- street patch
- utility crossing
- utility locations
- approach site distance
- catch basin frame and grate
- monument
- water valves
- trust blocking table
- vertical blocking if applicable
- water vault
- utility trench bedding and backfill
- Manhole ring and cover
- Manhole step and ladder [Civil Plans, C5]

Civil, C5: Add City Standard details 03.01.01 and 03.04.02 to this plan set.



SEE C1 FOR TESC/NOTES
SEE C2 FOR UTILITY SITE PLAN

KEIMIG 5TH ST

Site Address: 111 5TH ST SE
Jurisdiction: Puyallup
Parcel No.: 728500-0112
Applicant: Samantha Keimig
Permit No.: PLCUP20220162
Interlaken Project No.: SEA-24-068

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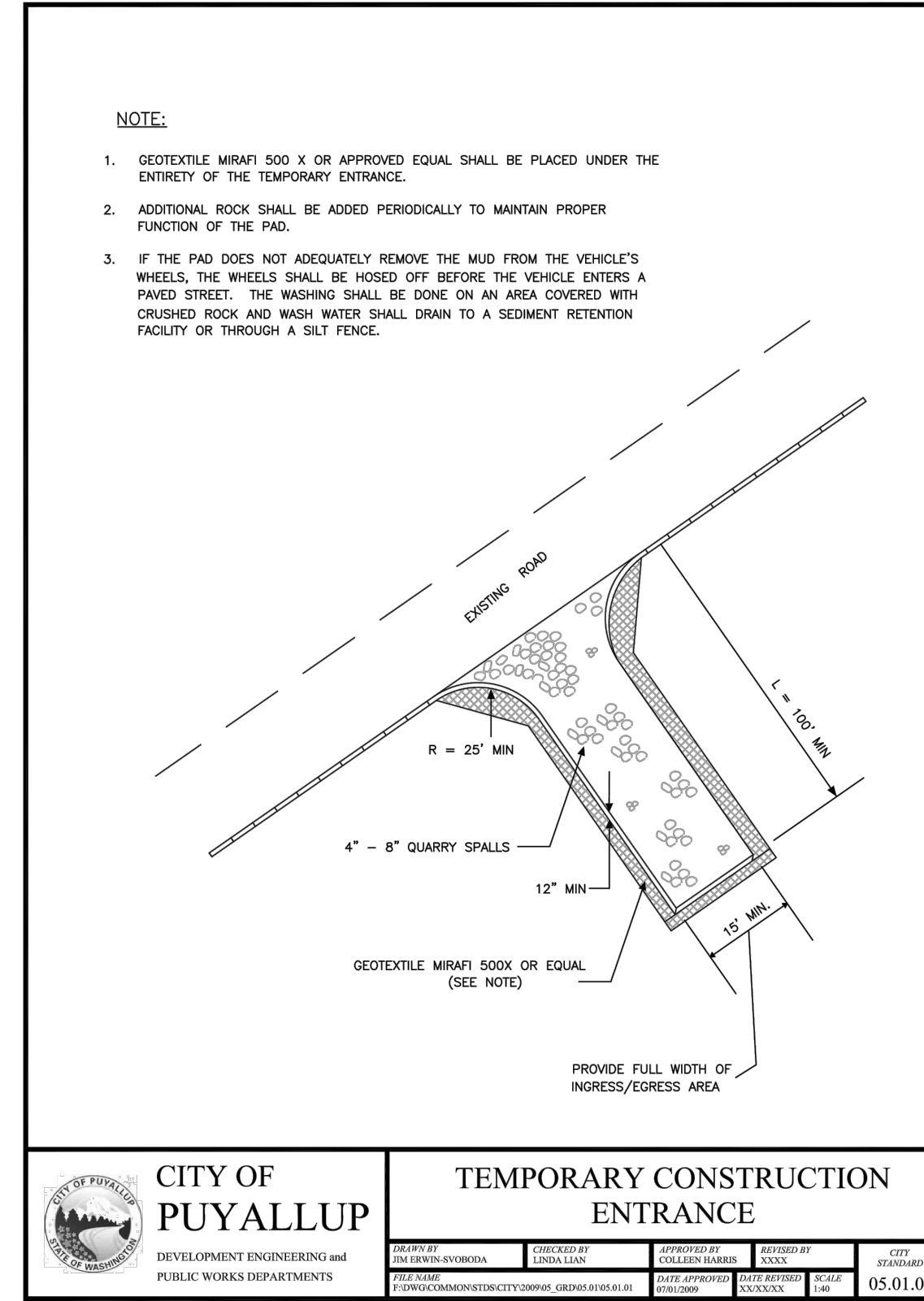
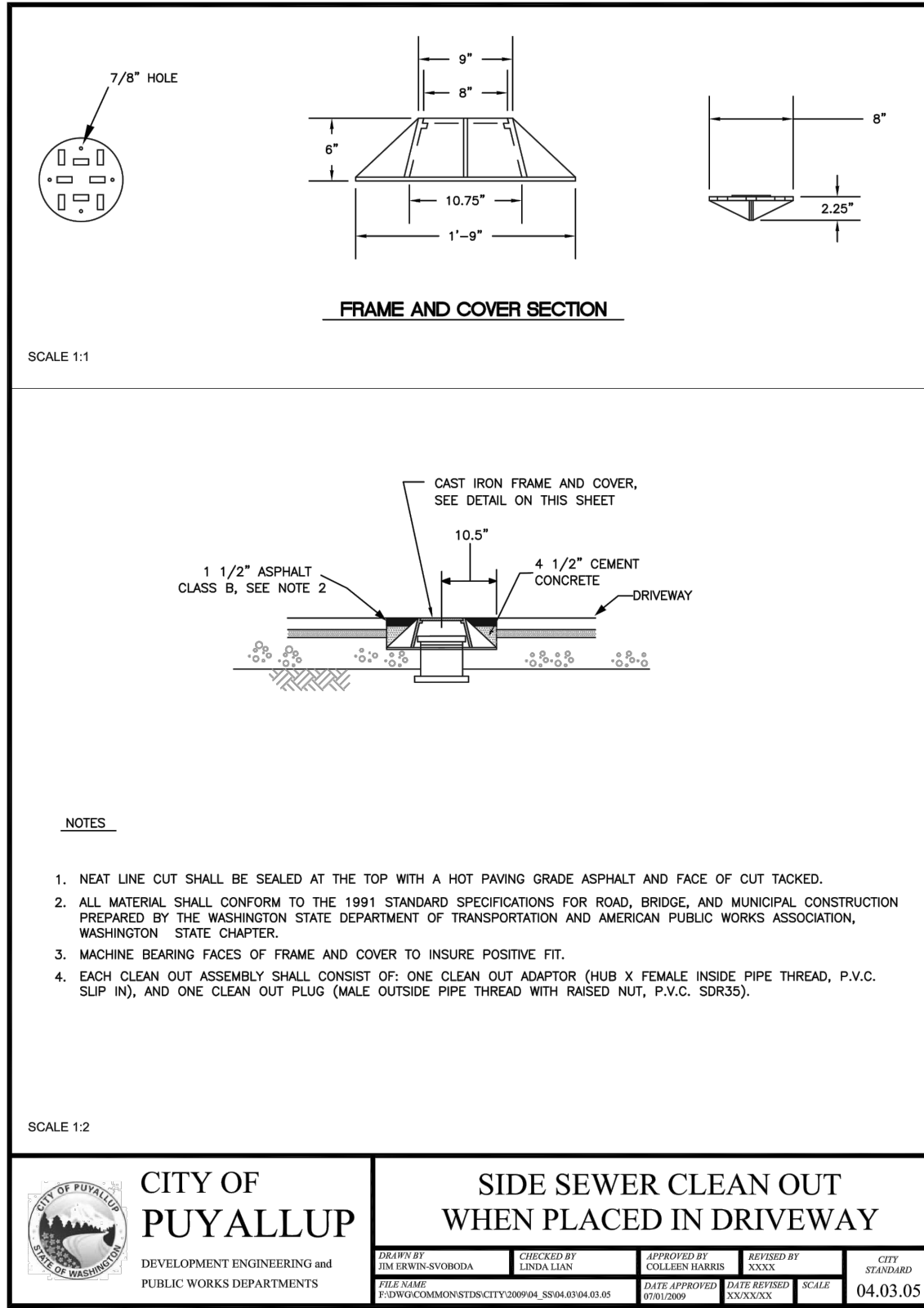
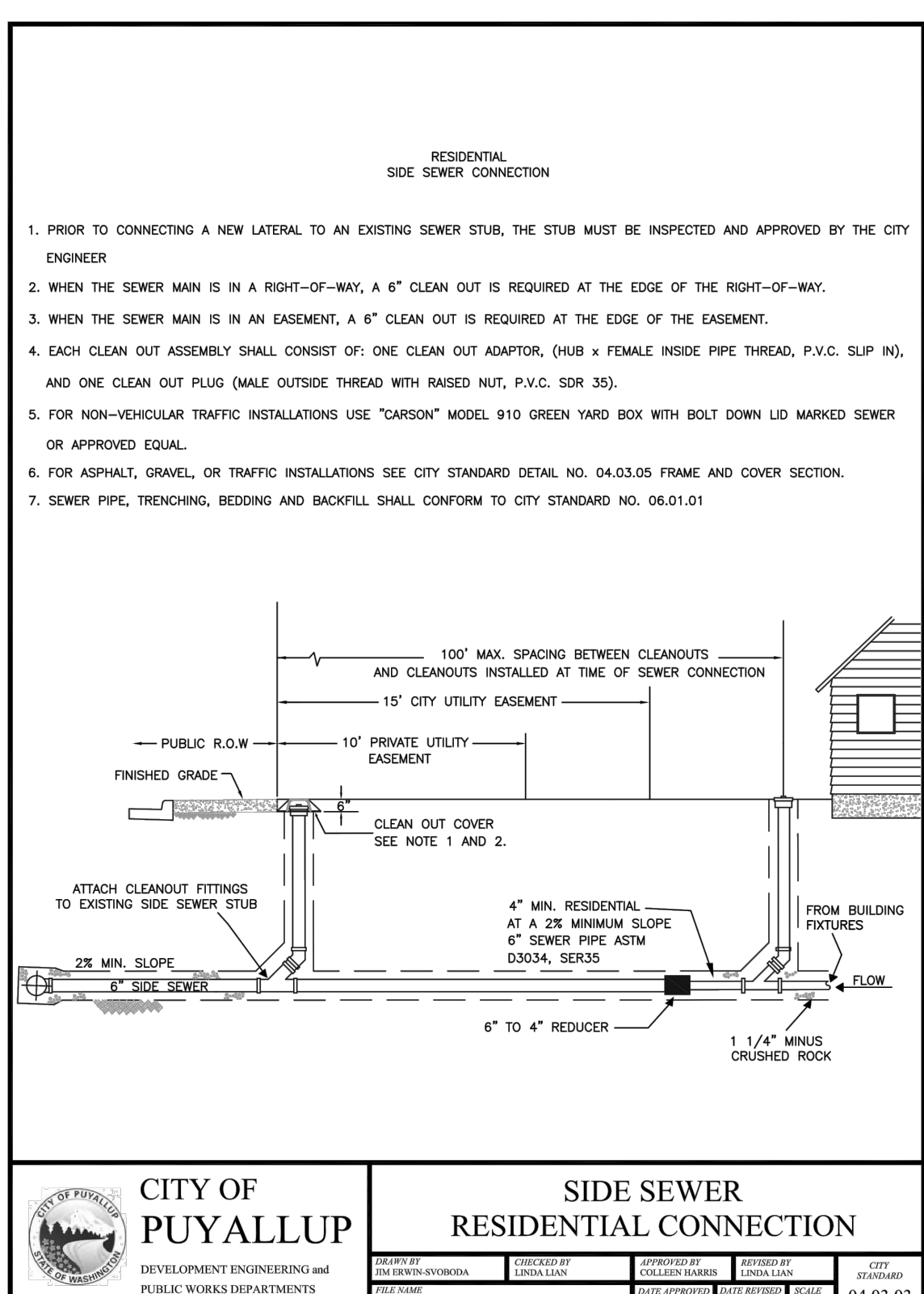
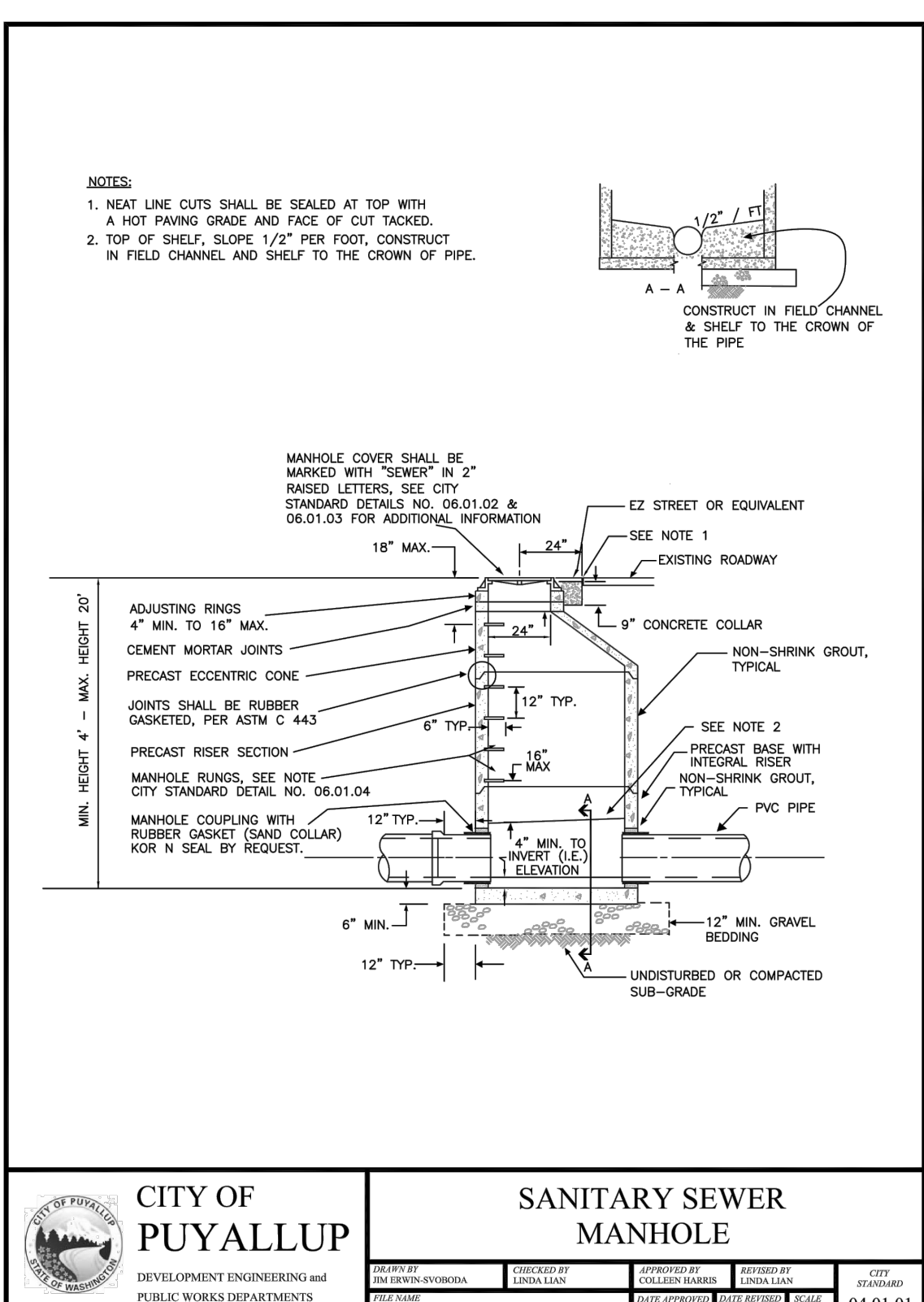
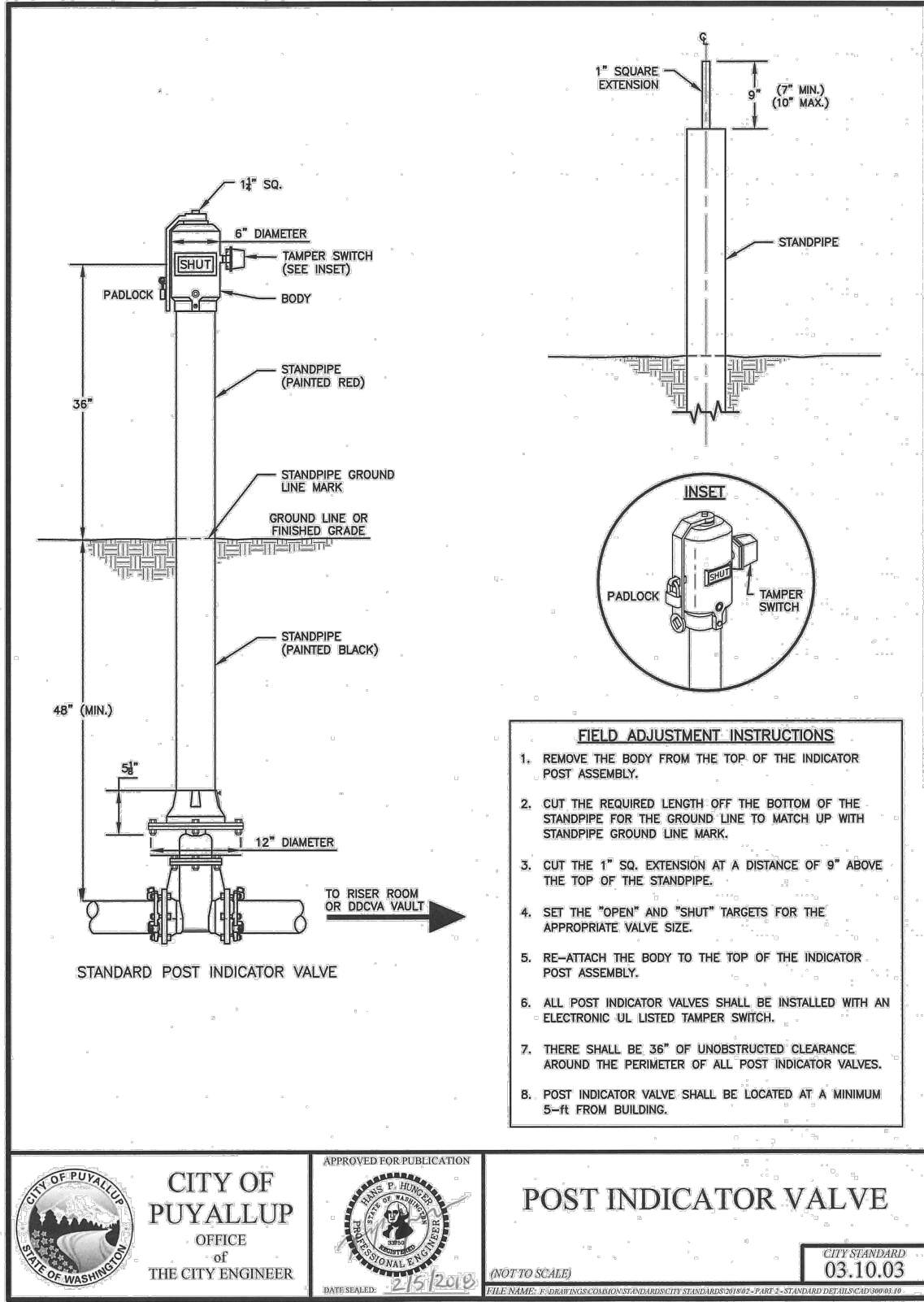
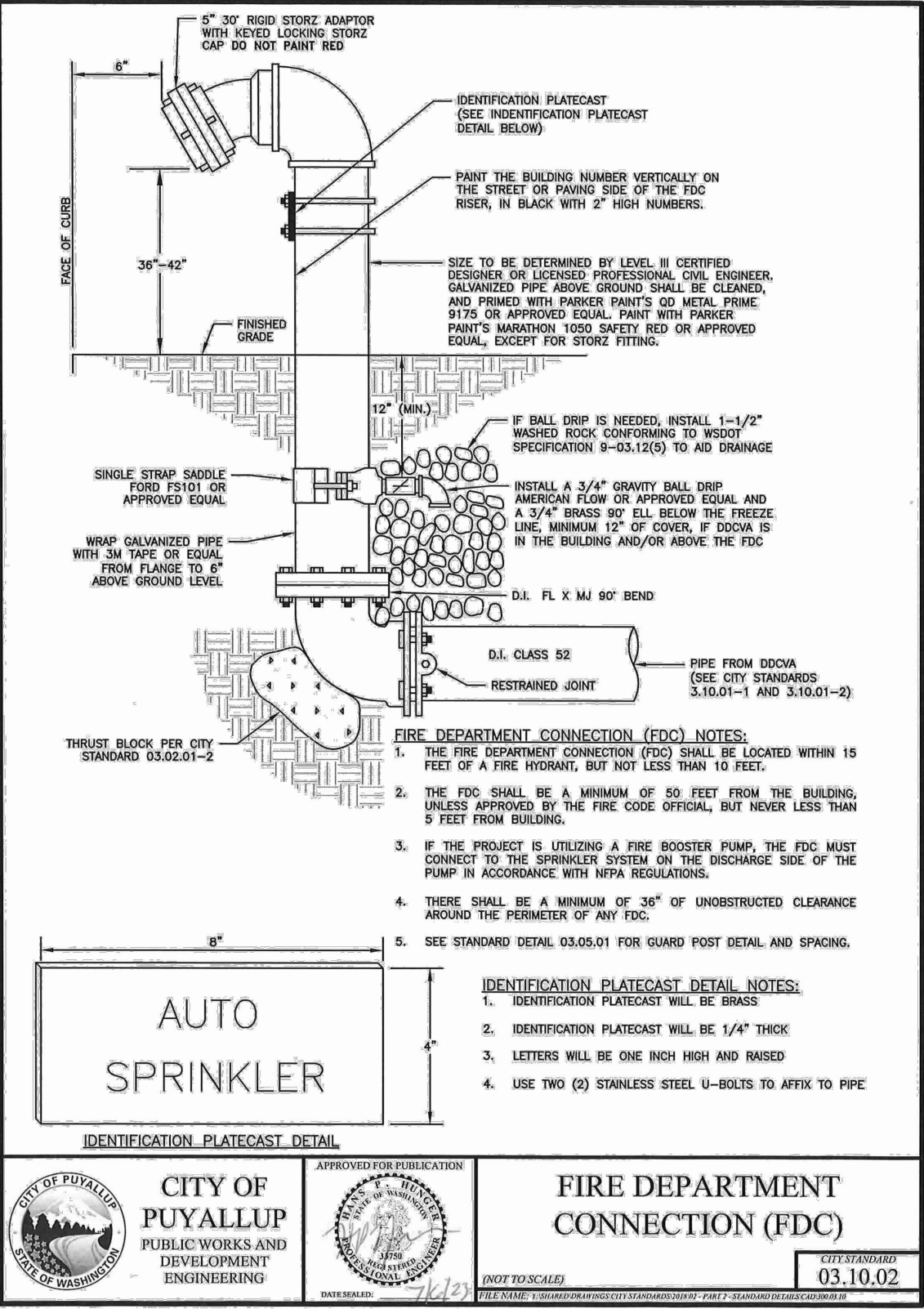


Revisions:

C5

Details 1

Scale: As Noted



SEE C1 FOR TESC/NOTES
SEE C2 FOR UTILITY SITE PLAN

KEIMIG 5TH ST

Site Address: 111 5TH ST SE

Jurisdiction: Puyallup

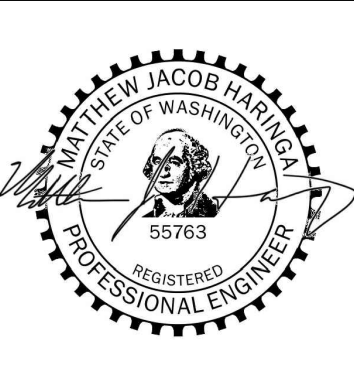
Parcel No.: 728500-0112

Applicant: Samantha Keimig

Permit No.: PLCUP20220162

Interlaken Project No.: SEA-24-068

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Revisions:

C6

Details 2

Scale: As Noted