WASHINGTON STATE FAIR SILLYVILLE TRAIN EXPANSION

APPLICANT

WASHINGTON STATE FAIR 110 9TH AVENUE SW PUYALLUP, WA 98371 (253) 841–5356 CONTACT: RENEE MCCLAIN, CFO

CIVIL ENGINEER

JMJ TEAM 905 MAIN ST SUITE. 200 SUMNER, WA 98390 (206) 596–2020 CONTACT: JUSTIN JONES, PE

SURVEYOR

PARAMETRIX – PUYALLUP OFFICE 1019 39th AVENUE SE PUYALLUP, WA 98374 (360) 459–3609 CONTACT: KATHLEEN CASSOU, PLS

SITE INFORMATION:

SITE ADDRESS:	110 9th AVENUE SW, PUYALLUP, WA 98371
TAX PARCEL NUMBER(S):	042033-1134
ZONING:	FAIR
TOTAL PROJECT AREA:	0.54 ACRES

CONTROL INFORMATION:

BASIS OF BEARING:	HORIZONTAL DATUM FOR THIS SURVEY IS NAD 1983(91), WASHINGTON STATE PLANE SOUTH ZONE COORDINATE SYSTEM, U.S. SURVEY FEET. THE HORIZONTAL DATUM IS BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATION GP27512-18AZ.
	POINT DESIGNATION: GP27512-18AZ NORTHING: 678467.150 EASTING: 1194300.731
VERTICAL DATUM:	VERTICAL DATUM IS NGVD29 BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATION GP27512−18AZ Conversion from NGVD29 to NAVD88: NAVD88≈NGVD29+3.6
	POINT DESIGNATION: GP27512-18AZ
	ELEVATION: 77.073

SURVEY DATE:

JANUARY, 2022

LEGAL DESCRIPTION:

ABBREVIATED:

Ptn NE1/4, 33-20-4

SERVICE PROVIDERS:

WATER:	CITY OF PUYALLUP
SEWER:	CITY OF PUYALLUP
POWER:	PUGET SOUND ENERGY
GAS:	PUGET SOUND ENERGY
COMMUNICATIONS:	CENTURYLINK
FIRE PROTECTION:	CENTRAL PIERCE FIRE & RESCUE

CIVIL CONSTRUCTION PERMIT



110 9th Ave SW, Puyallup, WA 98371



 $\frac{Puyallup Fair Map}{Scale: 1'' = 400'}$

THIS DRAWING AND/OR SPECIFICATION DOCUMENT HAS BEEN REVISED TO REFLECT INFORMATION PROVIDED BY THE CONSTRUCTION CONTRACTOR (AND OTHERS) DEFINING KNOWN DIFFERENCES BETWEEN THE FACILITIES SHOWN CONSTRU(CTION DOCUMENTS TO THOSE CONSTRUCTED. THE INFORMATION PROVIDE ON THESE RECORDS, HAS BEEN ASSUMED TO BE CORRECT AND HAS VERIFIED BY THE ENGINEER, WHO IS UNDER NO OBLIGATION SUCH ACCURACY AND/OR COMPL PROFESSIONAL SEAL ON THIS DRAWING, REVISION(S) TO VERIF THAT THE CHANGES AS DEFINED BY THESE ADVERSE TO THE PLANNED USE SIGN. THERI ASSURANCE THAT <u>ALL</u> DIFFERENCES TO THE ORIGINAL DRAWING AND/OR SPECIFICATION DOCUMENT HAVE BEEN IDENTIFIED.

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Project Disturbed Area

Existi	ing Surfac	es	Proposed	Surfaces	
Surface	Area (sf)	Area (ac)	Surface	Area (sf)	Area (ac)
Landscaping	4,169	0.096	Landscaping	112	0.003
Gravel	8,987	0.206	Gravel	1,593	0.037
Asphalt	4,021	0.092	Asphalt	854	0.020
Ballast	853	0.020	Permeable Asphalt	7,039	0.162
Total	18,030	0.414	Ballast	8,432	0.194
			Total	18,030	0.414

Project Cut and Fill Volumes

Cut		Fill	
Surface	Vol. (cyd)	Surface	Vol. (cyd)
Proposed Path	297	Proposed Path	216
Proposed Ballast	144	Proposed Ballast	133
Porposed Gravel	37	Proposed Gravel	34
Porposed Landscaping	2	Proposed Landscaping	4
Total	480	Total	387

APPROVED
BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING
DATE
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

CALL TWO BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555 UTILITIES UNDERGROUND LOCATION CENTER

	Washington STATE FAIR PUYALLUP	
T L D	Washington State Fair 110 9th Ave SW Puyallup, WA 98371 (253) 841-5356	
-γ	Architect:	
E	Engineer:	
	JUSTICAM Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020	
	Project: SillyVille Train Expansion	_
	ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY	
	These plans are record drawings , and the information shown accurately reflects existing field conditions as of this date: 08-24-2022.	
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	DWG. C1-001 01 OF 23	

Owner/Developer:

General Plan Notes

- 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 approved engineering plans, representatives from all applicable utility companies, the project owner and appropriate city staff. Contact Engineering Services at (253-841-5568) to schedule the meeting. The contractor is responsible to have their own set of approved 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 revision made to these plans must be reviewed and approved by the developer's engineer and the City 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 that requires removal or relocation relating to this project shall be done so at the developer's expense.
- 8. Locations of existing utilities are approximate. It shall be the contractor's responsibility to determine the true elevations and locations of hidden utilities. All visible items shall be the engineer's responsibility.
- 9. The contractor shall install, replace, or relocate all signs, as shown on the plans or as affected by construction, per City Standards.
- 10. Power, street light, cable, and telephone lines shall be in a trench located within a 10-foot utility easement adjacent to public right-of-way. Right-of-way crossings shall have a minimum horizontal separation from other utilities (sewer, water, and storm) of 5 feet.
- 11. All construction surveying for extensions of public facilities shall be done under the direction of a Washington State licensed land surveyor or a Washington State licensed professional civil engineer.
- 12. During construction, all public streets adjacent to this project shall be kept clean of all material deposits resulting from on-site construction, and existing structures shall be protected as directed by the City.
- 13. Certified record drawings are required prior to project acceptance.
- 14. A NPDES Stormwater General Permit may be required by the Department of Ecology for this project. For information contact the Department of Ecology, Southwest Region Office as (360) 407-6300.
- 15. Any disturbance or damage to Critical Areas and associated buffers, or significant trees designated for preservation and protection shall be mitigated in accordance with a Mitigation Plan reviewed and approved by the City's Planning Division. Preparation and implementation of the Mitigation Plan shall be at the developer's expense.

Stormwater Notes

- 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.
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- 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.
- 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 round) 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
- 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. d. Ductile iron pipe shall be Class 50, conforming to AWWA C151. Minimum cover on
- ductile iron pipe shall be 1.0 foot.
 e. 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 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.

- 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.

Sanitary Sewer 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 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").
- 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.
- 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. 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.
- 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.

Grading, Erosion, and Sediment Control Plan 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 approved engineering plans, representatives from all applicable utility companies, the project owner and appropriate city staff. Contact Engineering Services at (253-841-5568) to schedule the meeting. The contractor is responsible to have their own set of approved 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 revision made to these plans must be reviewed and approved by the developer's engineer and 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.
- 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. 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 situation 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.

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APPROVED

CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE _

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PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.



Water 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.
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- 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-of- way 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 areas. 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. When hydraulic fire flow modeling is required for a project, the City will issue a permit. The hydraulic modeling criteria is based on the projected 2030 water demand, while maintaining a minimum system pressure of 20 pounds per square inch 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 Volume	5-gram	Hypochlori	te Granules	Maximum
Pipe Diameter	per 18 feet	tablets per	Ounces per	Teaspoons	Fill Rate
(Inches)	(gal)	pipe section	500 feet	per 18 feet	(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 on- site 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 (WPCP) 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.

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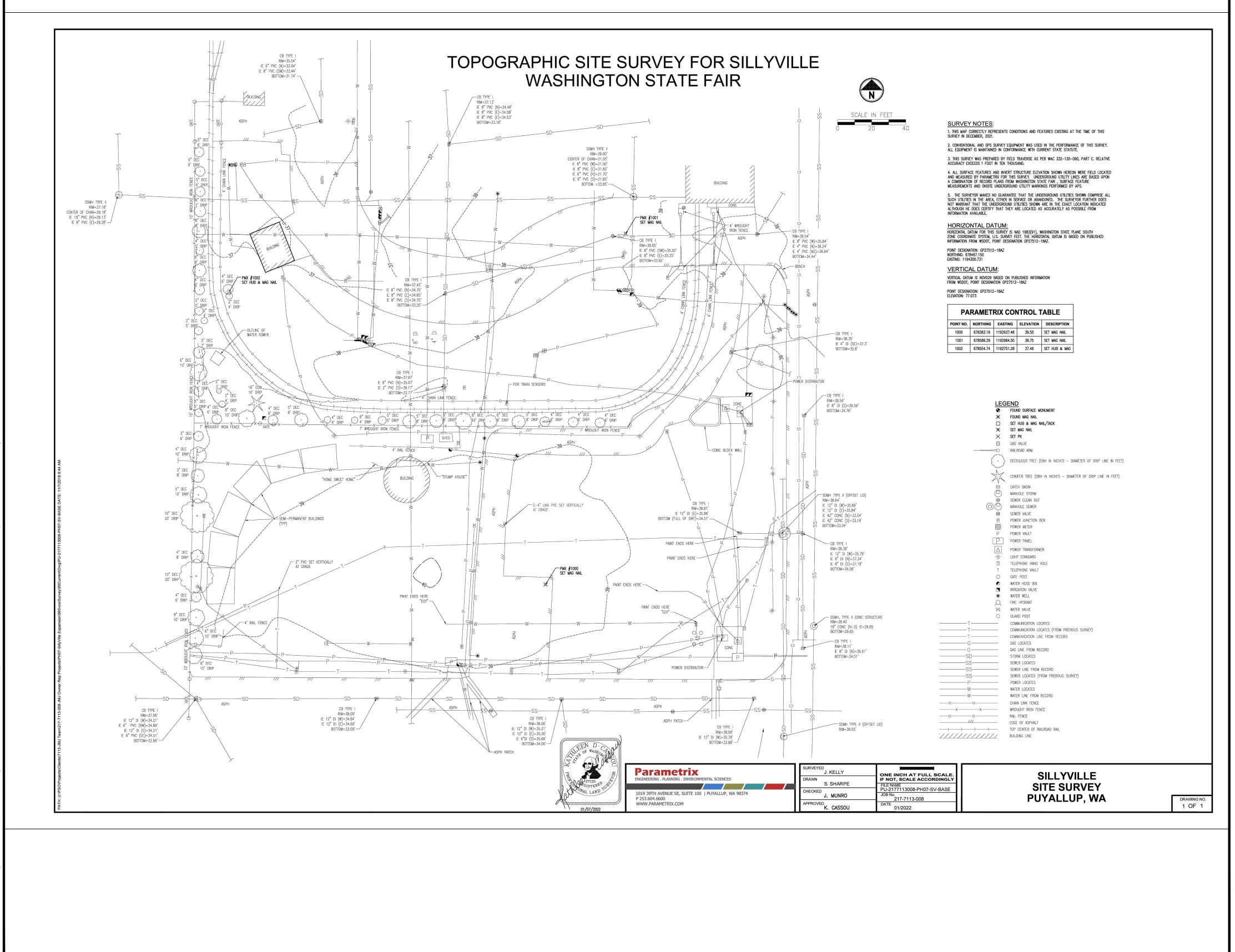
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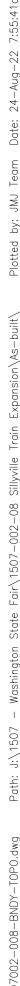
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NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

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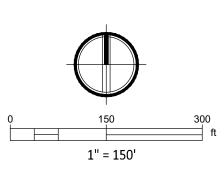
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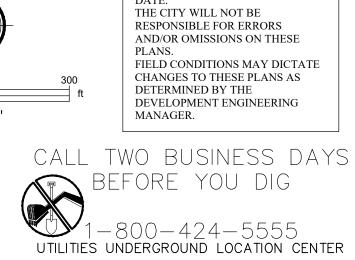
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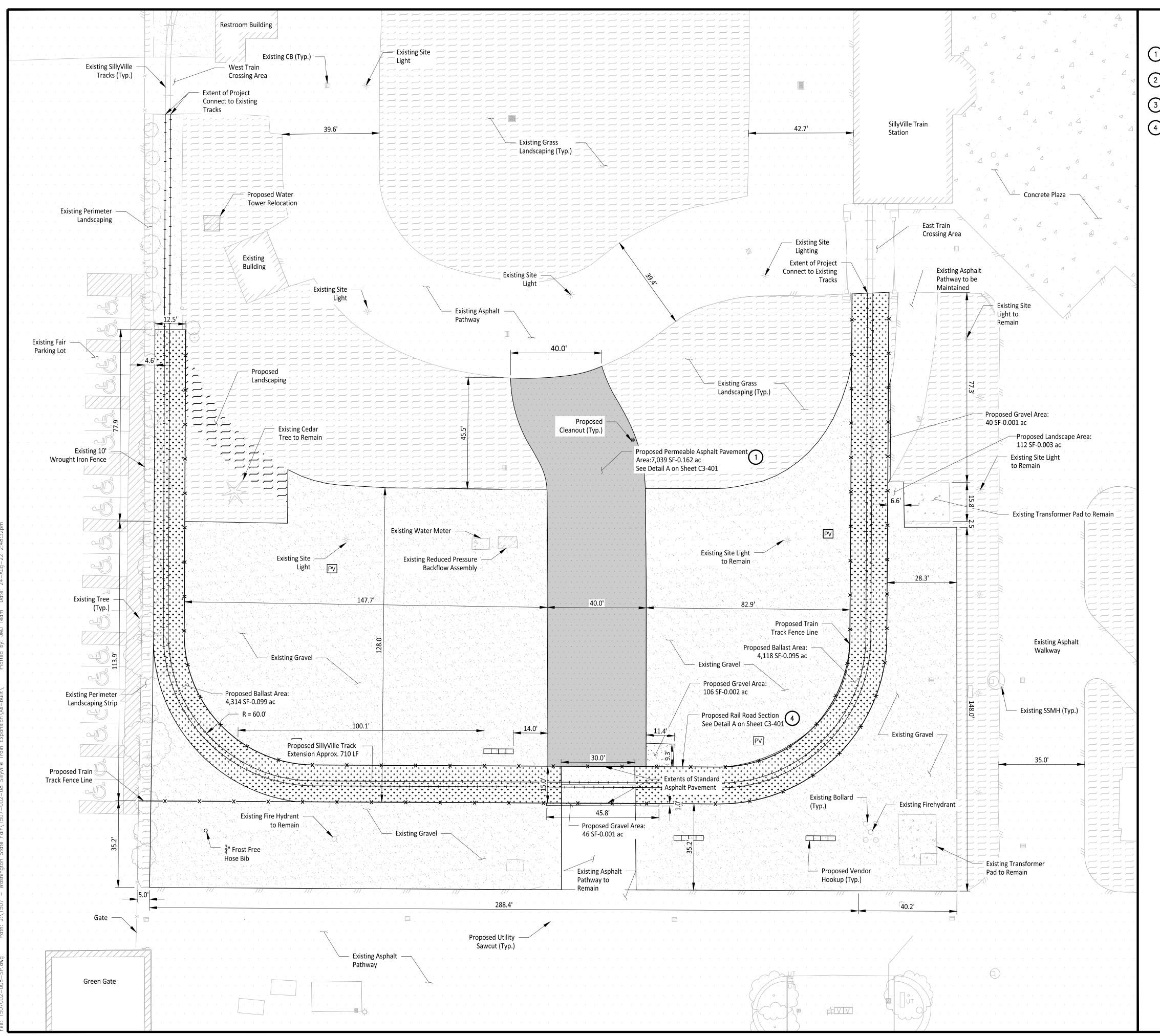


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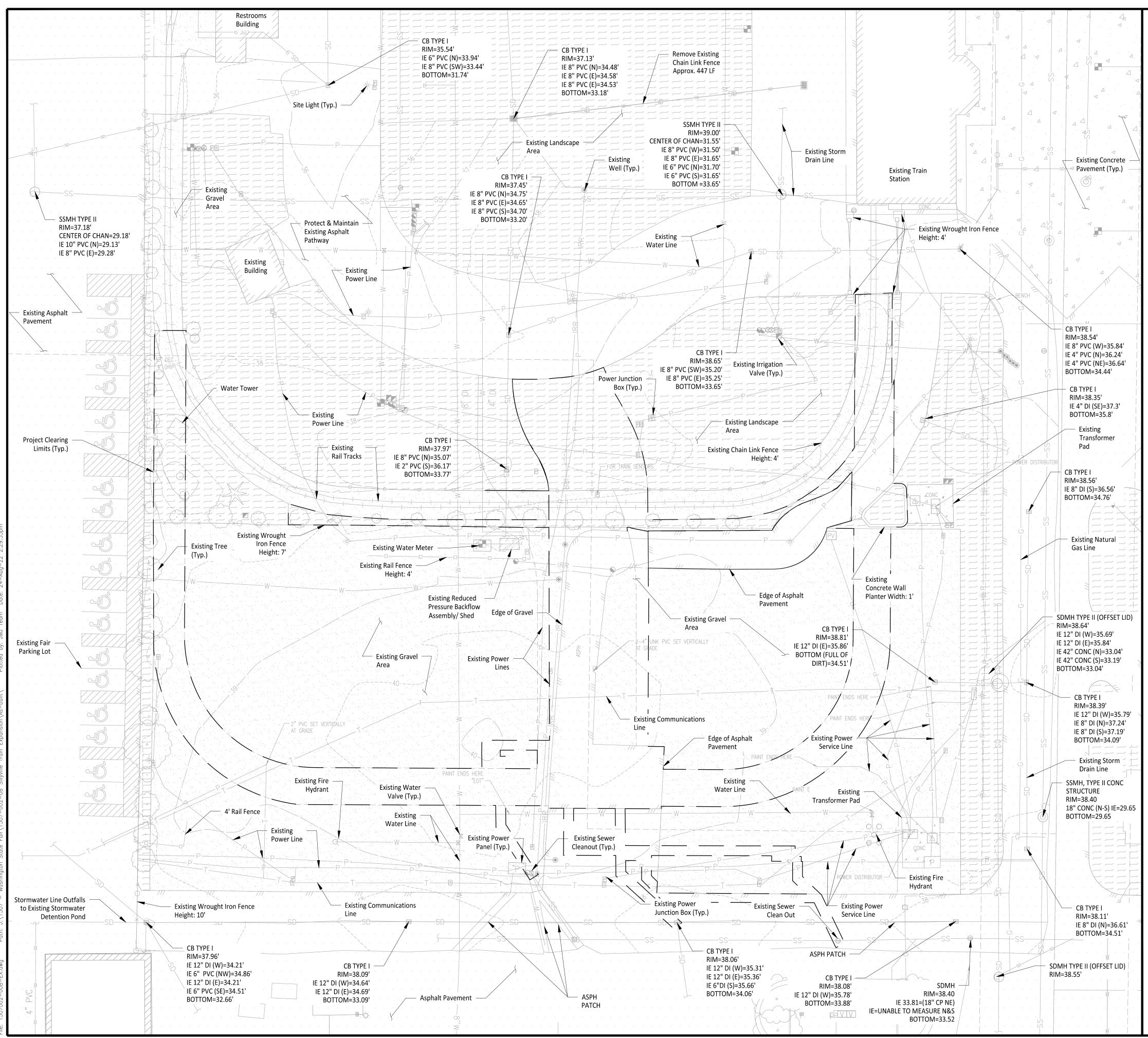
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			Owner/Developer:
CONSTRUCTIO)N NOTES		
Permable Asphalt Pavement to k		over 1" AASHTO #57 Stone and	Washington STATE FAIR
5" Permeable Ballast. See Detail	A on Sheet C3-401 for Se	ection.	PUYALLUP
Landscaped Areas to be installed Detail B on Sheet C3-401 for Sec		ndard Detail 01.02.08. See	Washington State Fair 110 9th Ave SW Puyallup, WA 98371
Install Permeable Asphalt Transit per Detail C on Sheet C3-401.	tion between Permeable	e Asphalt and Existing Asphalt	(253) 841-5356
Rail Road to be Shoulder Ballast See Detail D on Sheet C3-401 for		natching to grade on both sides.	Architect.
LEGEND			
· · · · · · · · · · · · · · · · · · ·	Existing Asphalt Pavemer	nt	
	Existing Landscaping Area	a	
	Existing Concrete Pavem	ent	Justin Jones, PE 905 Main St. Suite 200
in the second	Existing Gravel Area		Sumner, WA 98390 (206) 596-2020
	Existing Ballast Area		Project: SillyVille Train Expansion
· · · · · · · · · · · · ·	Proposed Permeable Asp	bhalt Area	
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GENERAL NOTES

1. Contractor to Pothole, Locate Horizontal and Vertical Utilities and Verify with Engineer prior to any Utility Work.

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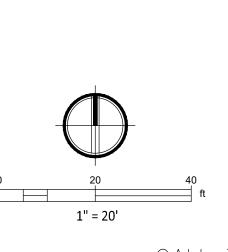
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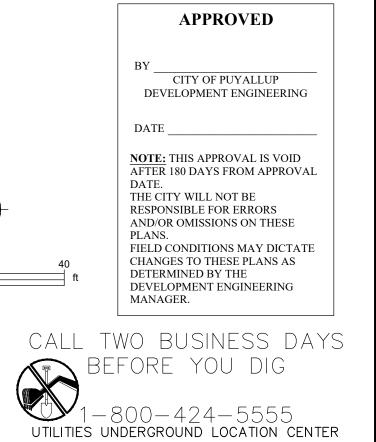
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Existing Landscaping Area Existing Asphalt Pavement **Existing Gravel Area** Existing Concrete Pavement **Existing Building** Existing Balast Existing Storm Drain Line Existing Sanitary Sewer Line Existing Water Line Line Existing Irrigation Line Existing Power Service Line Existing Site Lighting Circuit Existing Communication Line Existing Natural Gas Line Clearing Limits

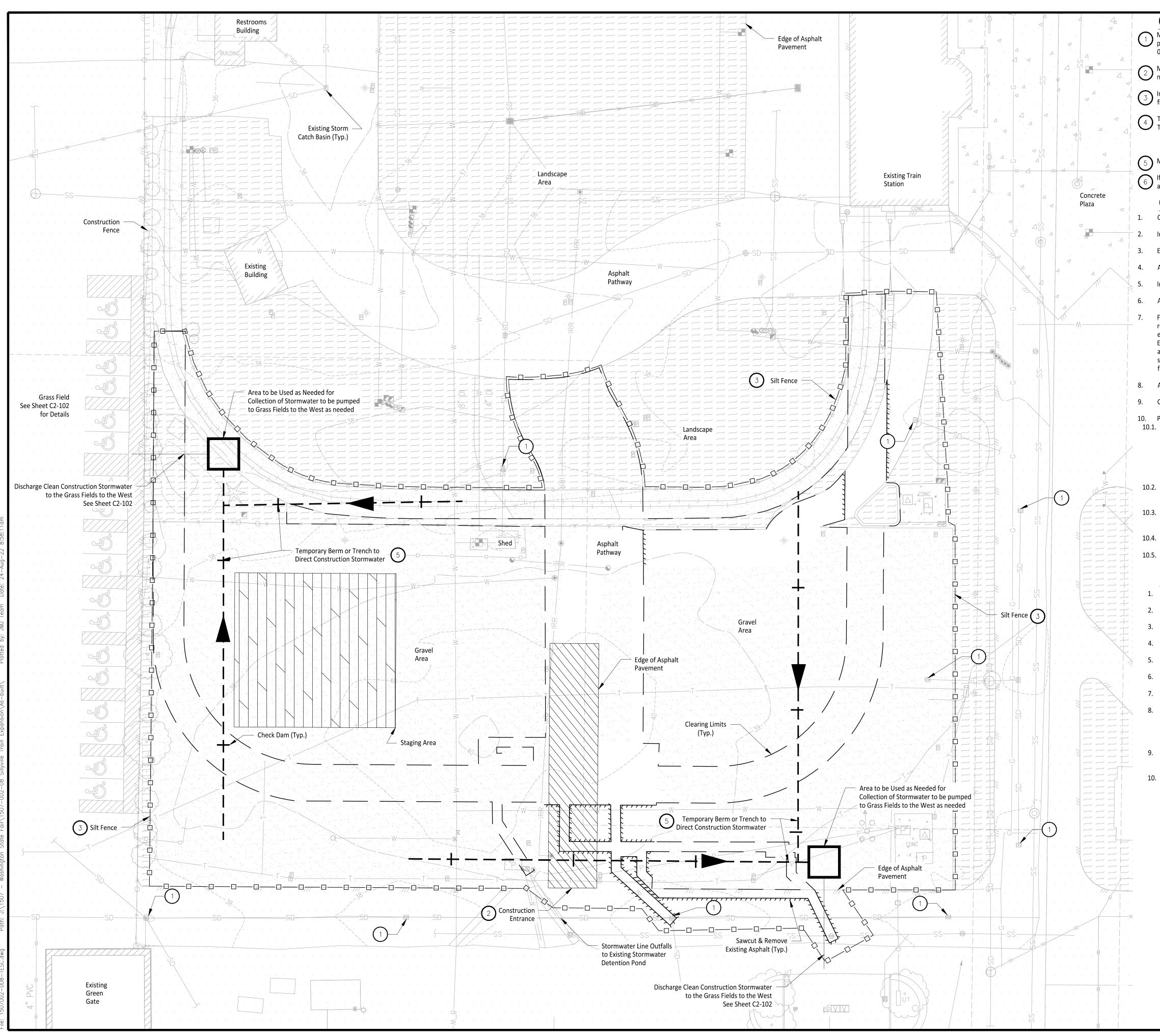




STATE FAIR PUYALLUP Washington State Fair 110 9th Ave SW Puyallup, WA 98371 (253) 841-5356 Architect: Engineer: Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020 Project: SillyVille Train Expansion ONE INCH AT FULL SCALE IF NOT, SCALE ACCORDINGLY These plans are record drawings, and the information shown accurately reflects existing field conditions as of this date: 08-24-2022. ALLA. PEGISTE BORTESSIONAL ENC 41829 08-24-22 REV DATE DESCRIPTION DRAWN BY: DESIGN BY: DM 1507-002-08 PROJ. NO: August 24, 2022 DATE: SHEET NAME **Existing Site Plan** DWG. C1-201

Owner/Developer:

Washington



Maintain and Install storm drain inlet protection in all existing catch basins within the project vicinity per WSDOT Standard Plan I-40.20-00 and storm drain barriers per City of Puyallup Standard Details 02.03.05 and 02.03.06.

2 Maintain construction entrance per City of Puyallup Standard Detail 05.01.01 and install wheel wash a needed per Washington DOE BMP C106.

Install silt fence per City of Puyallup Standard Detail 02.03.02. Silt Fence to mark clearing limits in the field.

Turbidity monitoring point. Additional treatment may be needed to meet stormwater discharge limits Treatment options include:

- Chemical Treatment per DOE BMP C250 - Filtration per DOE BMP C251

5 Maintain temporary ditch to gravity flow stormwater to Collection Area.

 \bigcirc If necessary, alternative sediment control methods shall be submitted by the contractor for review an approval prior to construction.

GENERAL NOTES

1. Construct Pipe trench bedding and backfill as necessary per City of Puyallup Standard Detail 06.01.01

Install straw bale barriers, wattles, and other necessary TESC measures as required.

Exposed soils shall be watered as necessary to prevent dust from leaving the site.

4. All concrete handling and equipment washing shall be in accordance with Washington DOE BMP C152

Install high visibility construction fence where silt fence is not required as shown per DOE BMP C103.

6. A CESCL shall be available on-site or on-call for the duration of construction operations.

7. From April 1 to October 31 all disturbed areas at final grade & all exposed areas that are scheduled to remain unworked for 30+ days shall be stabilized within 10 days. From November 1 to March 31 all exposed soils at final grade shall be stabilized immediately using permanent or temporary measures. Exposed soils with an area +5,000 sqft that are scheduled to remain unworked for more than 24 hrs and exposed areas of less than 5,000 sqft that will remain unworked for more than 7 days shall be stabilized immediately. All disturbed areas which are not planned to be constructed on within 90 day from time of clearing & grading shall be revegetated with the native vegetation.

All BMP's per City of Puyallup standards and protection CSWPPP.

Contractor to instill protection devices for trees proposed for retention

10. Protect Low Impact Development BMPs

- 10.1. Protect all Permeable Pavement and Infiltration Areas from sedimentation through installation and maintenance of erosion and sediment control BMPs on portions of the site that utilize infiltration BMPs. Leave infiltration areas high and/or place silt fence around the areas to ensure runoff will not accumulate silt within the subgrade. Restore the BMPs to their fully functioning condition if they accumulate sediment during construction. Restoring the BMP must include removal of sediment and any sediment-laden Bioretention/rain garden soils, and replacing the removed soils with soils meeting the design specification.
 - Prevent compacting Permeable Pavement and Infiltration BMPs by excluding construction equipment and foot traffic. Protect completed lawn and landscaped areas from compaction due to construction equipment.
 - Control erosion and avoid introducing sediment from surrounding land uses onto permeable pavements. Do not allow muddy construction equipment on the base material or pavement. Do not allow sediment-laden runoff onto permeable pavements or base materials.
 - Pavement fouled with sediments or no longer passing an initial infiltration test must be cleaned using procedures in accordance with this manual or the manufacturer's procedures. Keep all heavy equipment off existing soils under LID facilities that have been excavated to final grade to retain the infiltration rate of the soils.

CONSTRUCTION SEQUENCE

1. Hold a preconstruction meeting with the City and obtain required permits.

2. Establish clearing and grading limits.

3. Construct temporary construction entrance.

4. Construct perimeter ditches, silt fences, and other erosion control devices as shown.

5. Construct protection devices for critical areas and significant trees proposed for retention.

6. Schedule an erosion control inspection with the City.

7. Construct storm drainage retention/detention facilities. Provide emergency overflow as applicable.

All ditches and swales as shown shall be provided to direct all surface water to the retention/detention and sedimentation pond as clearing and grading progresses. No uncontrolled surface water shall be allowed to leave the site or be discharged to a critical area at any time during the grading operations.

9. Clearly state at what point grading activities can begin, usually only after all drainage and erosion control measures are in place.

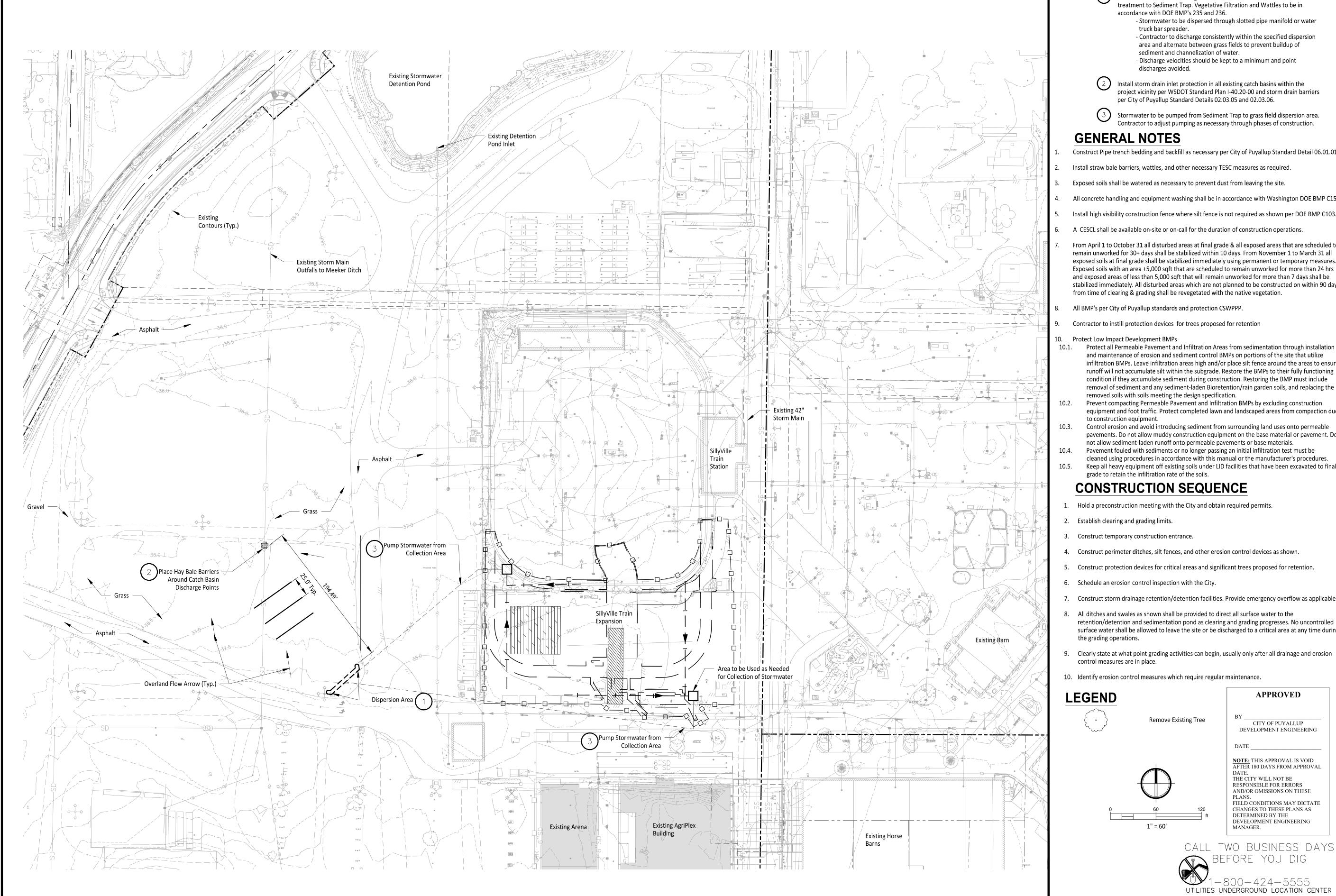
10. Identify erosion control measures which require regular maintenance.

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	Silt Fence	DEVELOPMENT ENGINEERING
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Owner/Developer:

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Grass fields to be used for Vegetative Filtration as additional or alternative

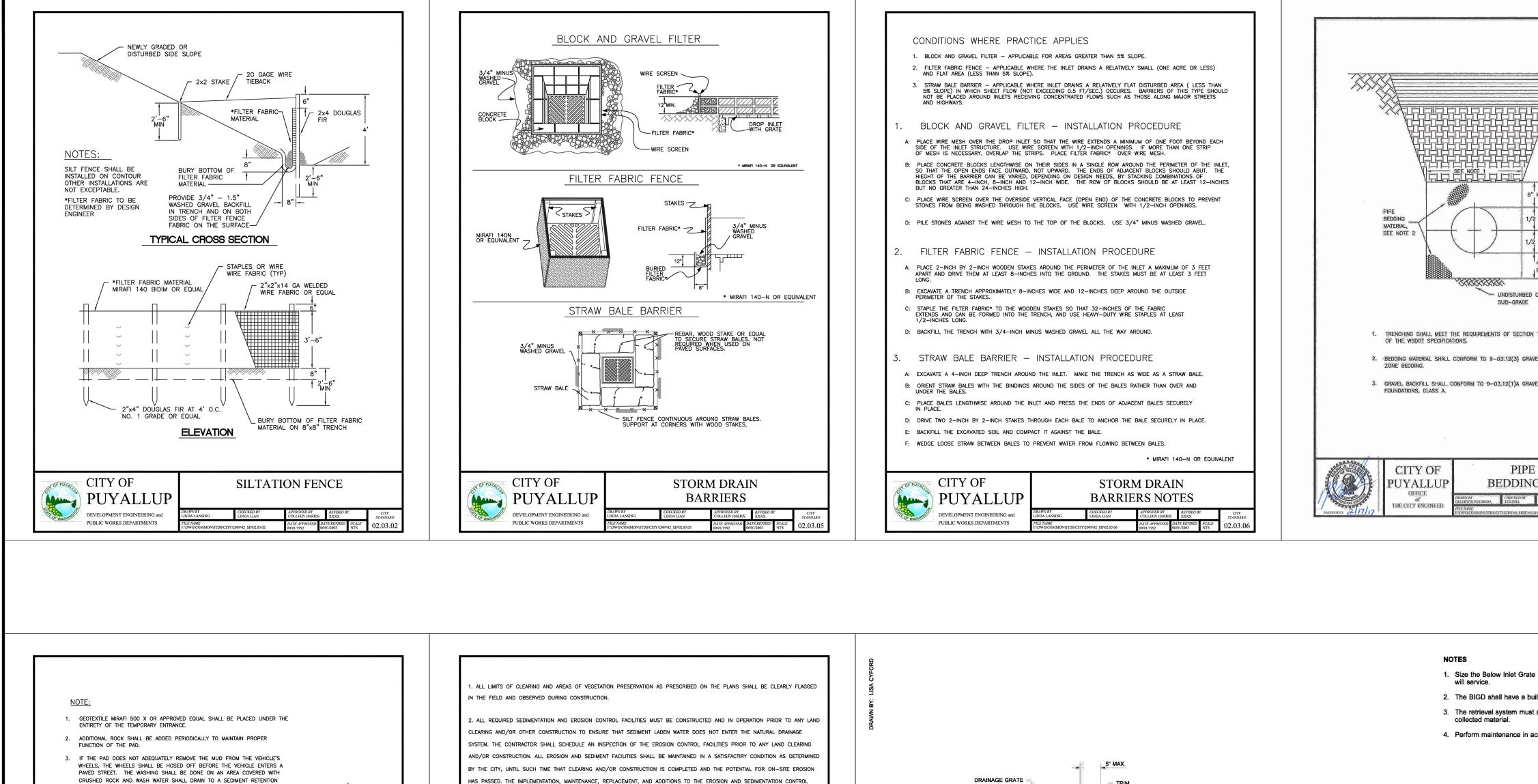


- runoff will not accumulate silt within the subgrade. Restore the BMPs to their fully functioning

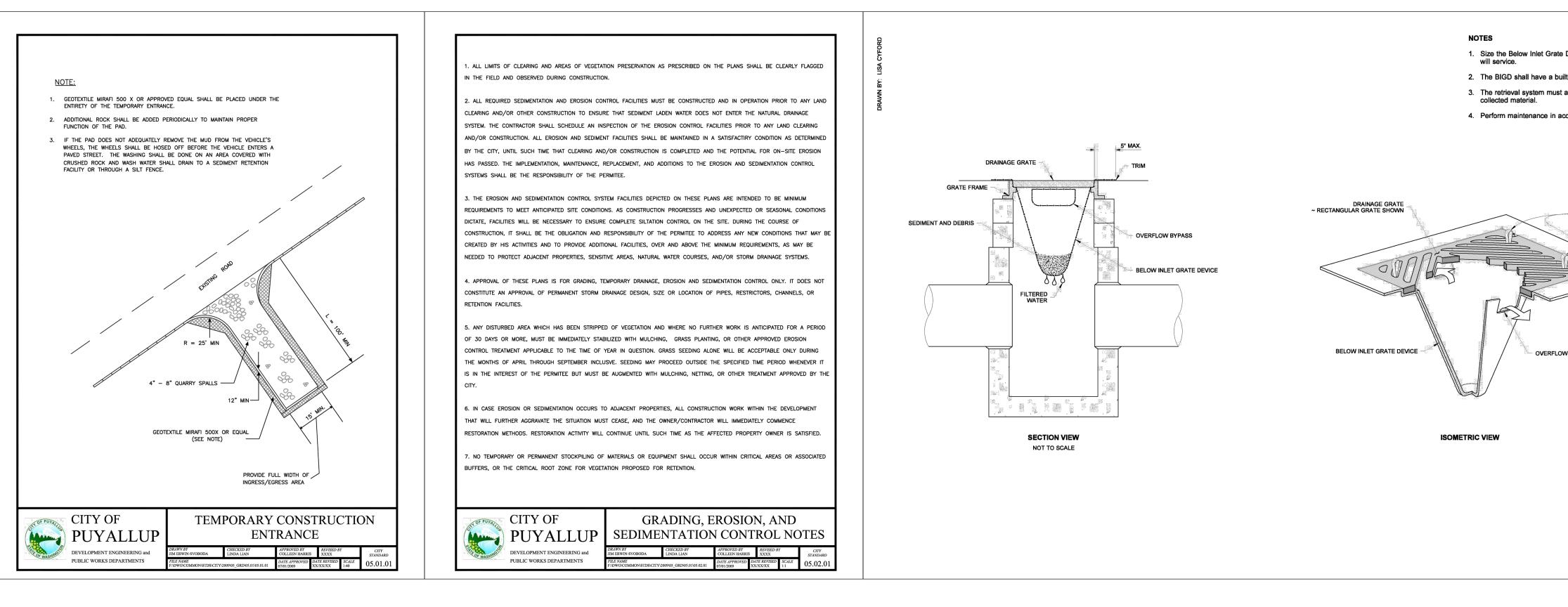
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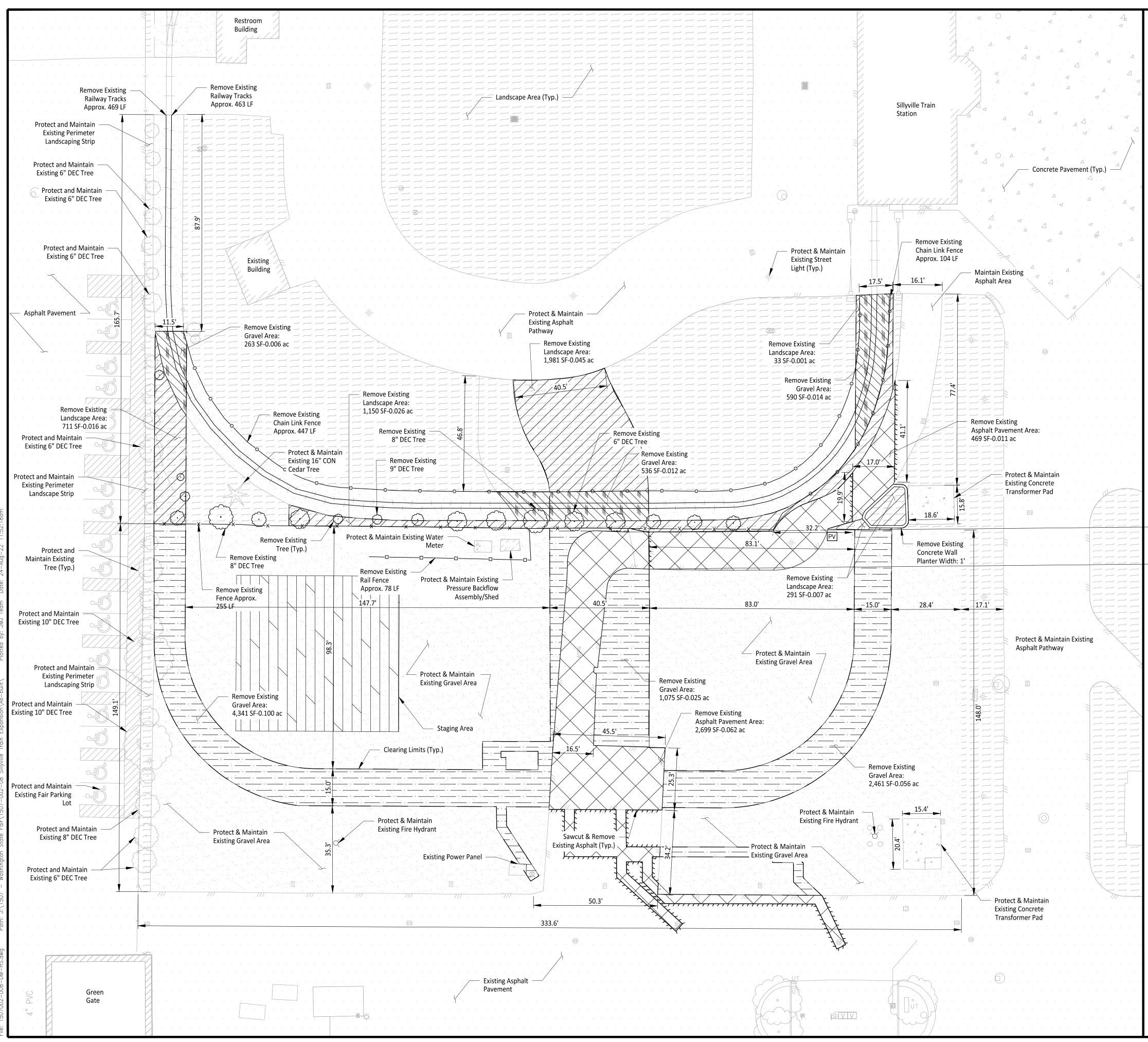
Owner/Developer







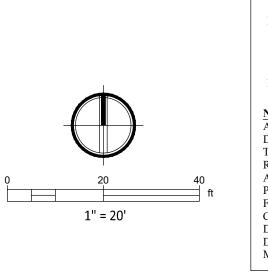
		Owner/Developer:
		Washington STATE FAIR
		PUYALLUP
		Washington State Fair 110 9th Ave SW Puyallup, WA 98371
		(253) 841-5356 Architect:
BACKFILL MATERIAL SEE NOTE 3		
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D.,		Engineer:
D. MIN. FOR 27" PIPE AND SMALLER		JMJTEAM
MIN. FOR PIPE LARGER THAN 27"		Justin Jones, PE 905 Main St. Suite 200
		Sumner, WA 98390 (206) 596-2020
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STORM DRAIN INLET PROTECTION STANDARD PLAN I-40.20-00	DEVELOPMENT ENGINEERING DATE	DRAWN BY: DM DESIGN BY: JJ
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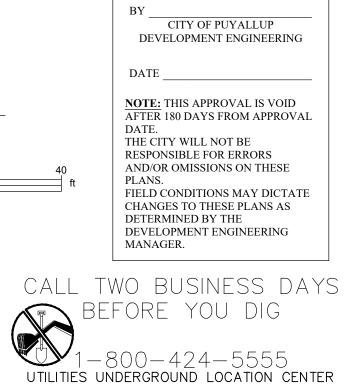


	GENERAL NOTES Contractor to instill protection devices for trees proposed for retention		
LEGEND		Washington State Fair 110 9th Ave SW Puyallup, WA 98371 (253) 841-5356	
	Remove Existing Asphalt Pavement	Architect:	
	Remove Existing Landscaping Area		
· · · · ·	Remove Existing Gravel Area		
	Remove Existing Concrete Pavement		
	Existing Landscaping Area		
	Existing Asphalt Pavement	Justin Jones, PE 905 Main St. Suite 200	
	Existing Gravel Area	Sumner, WA 98390 (206) 596-2020	
	Existing Concrete Pavement	Project: SillyVille Train Expar	
	Existing Building		
	Staging Area		
-00	Remove Existing Chain Link Fence		
XX	Remove Existing Fence		
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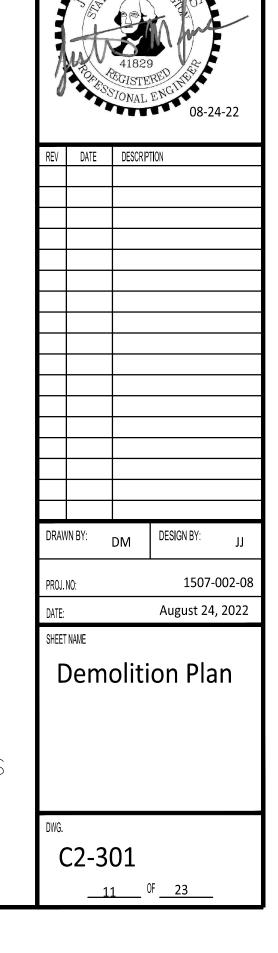
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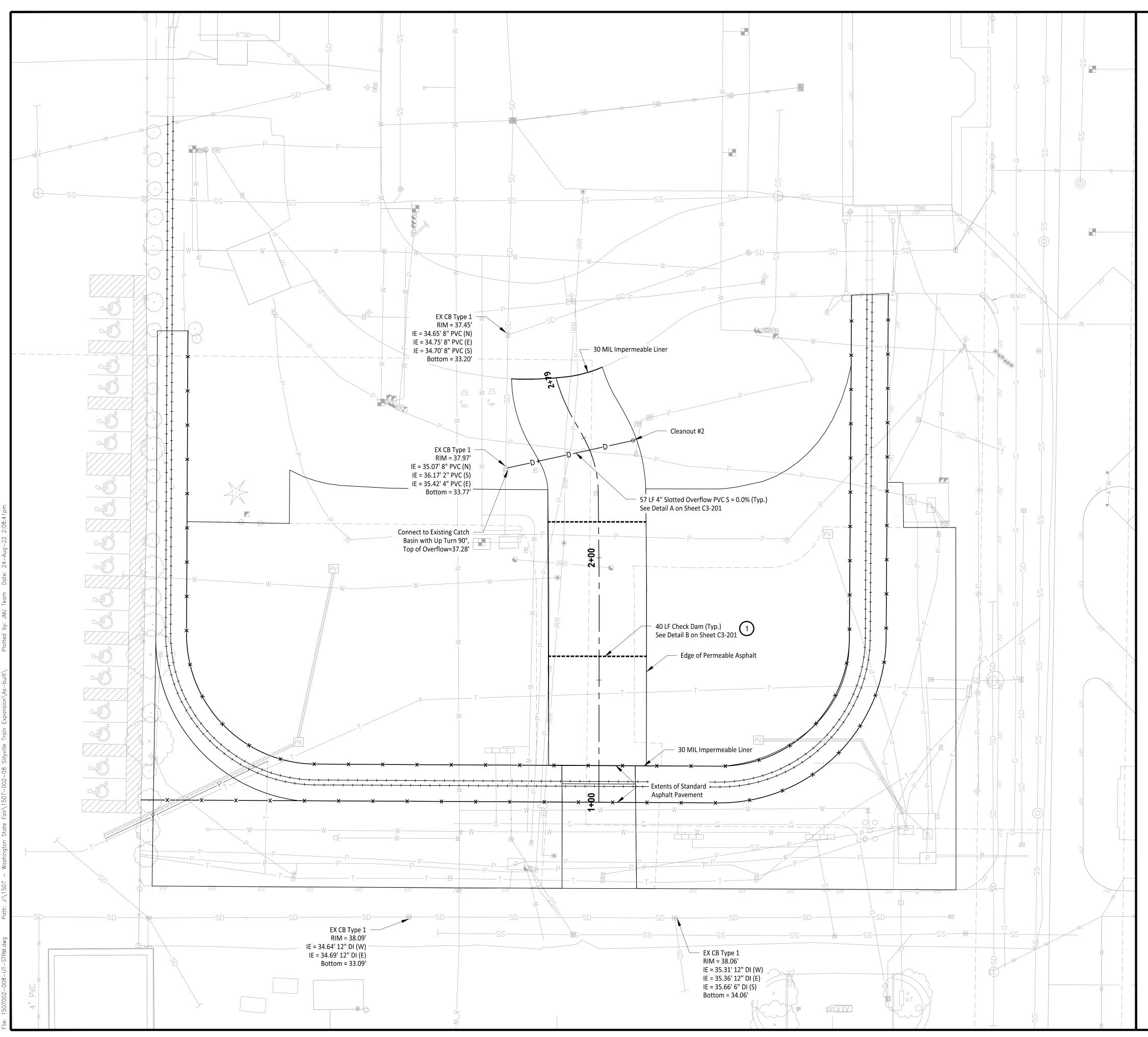
 Existing Surfaces to be Removed		
Surface	Area (sf)	Area (ac)
 Landscaping	4,169	0.096
Gravel	8,987	0.206
Asphalt	4,021	0.092
Ballast	853	0.020
Total	18,030	0.414





APPROVED





1 Check Dam to be installed under Permeable Pavement to maintain stormwater separation in pathways. See section B on Sheet C3-201.

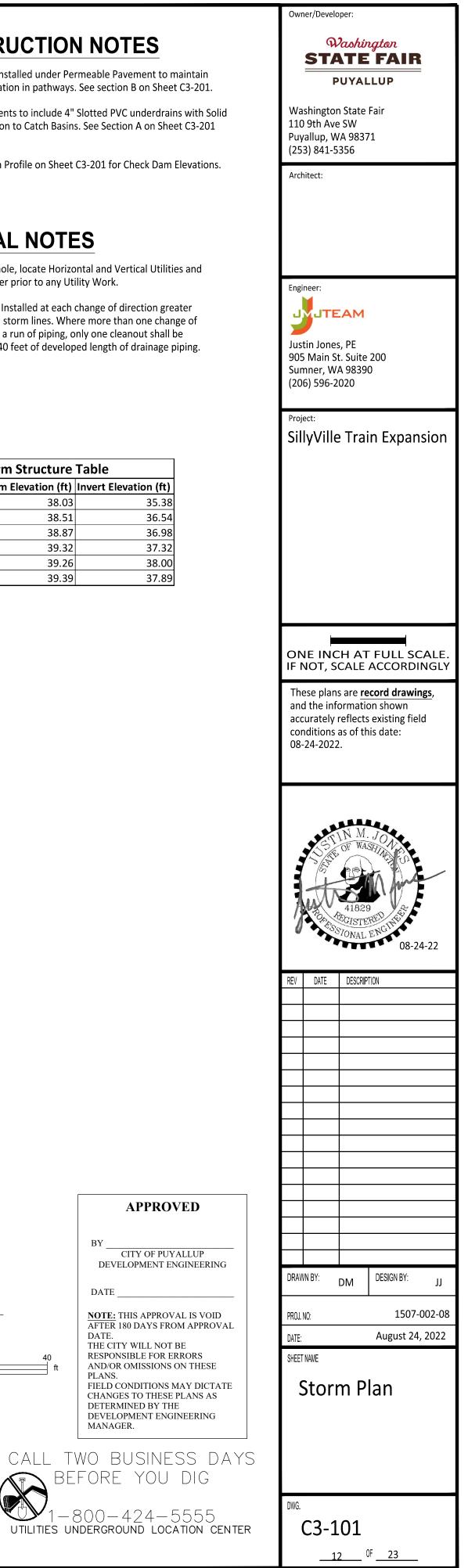
2 Permeable Pavements to include 4" Slotted PVC underdrains with Solid Wall PVC connection to Catch Basins. See Section A on Sheet C3-201 for Details.

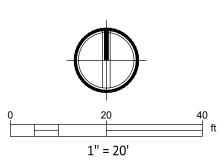
3 See Permable Path Profile on Sheet C3-201 for Check Dam Elevations.

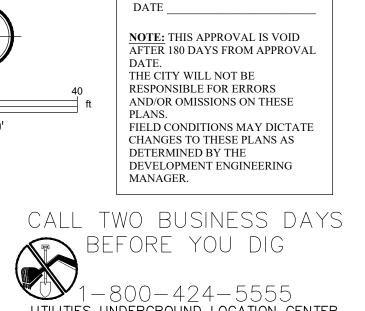
GENERAL NOTES

- 1. Contractor to Pothole, locate Horizontal and Vertical Utilities and Verify with Engineer prior to any Utility Work.
- 2. Cleanouts shall be Installed at each change of direction greater than 45 degrees in storm lines. Where more than one change of direction occurs in a run of piping, only one cleanout shall be required for each 40 feet of developed length of drainage piping.

Storm Structure Table				
Elevation Point	Rim Elevation (ft)	Invert Elevation (ft)		
Cleanout #1	38.03	35.38		
Cleanout #2	38.51	36.54		
Cleanout #3	38.87	36.98		
Cleanout #4	39.32	37.32		
Cleanout #5	39.26	38.00		
Cleanout #6	39.39	37.89		



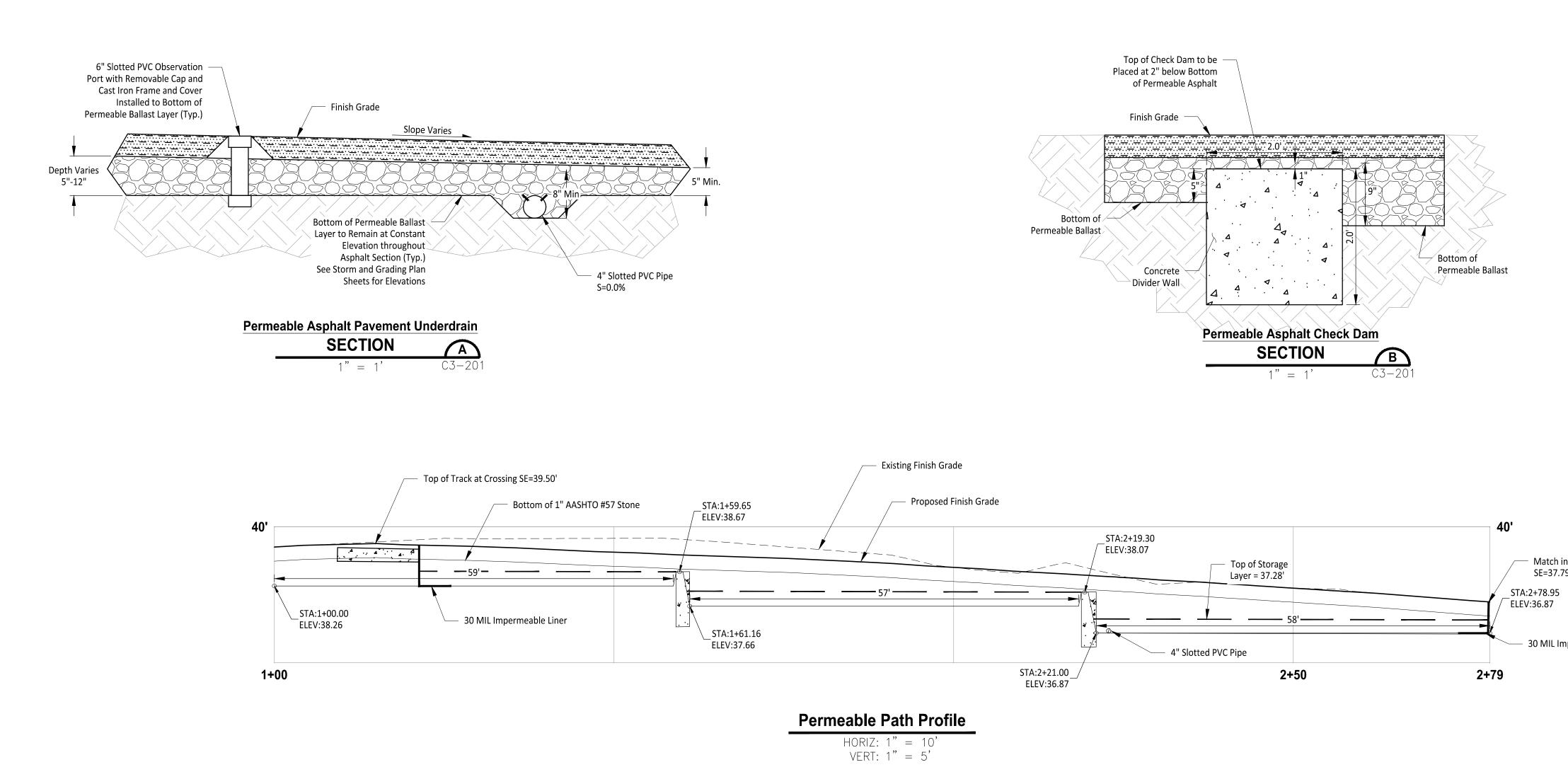




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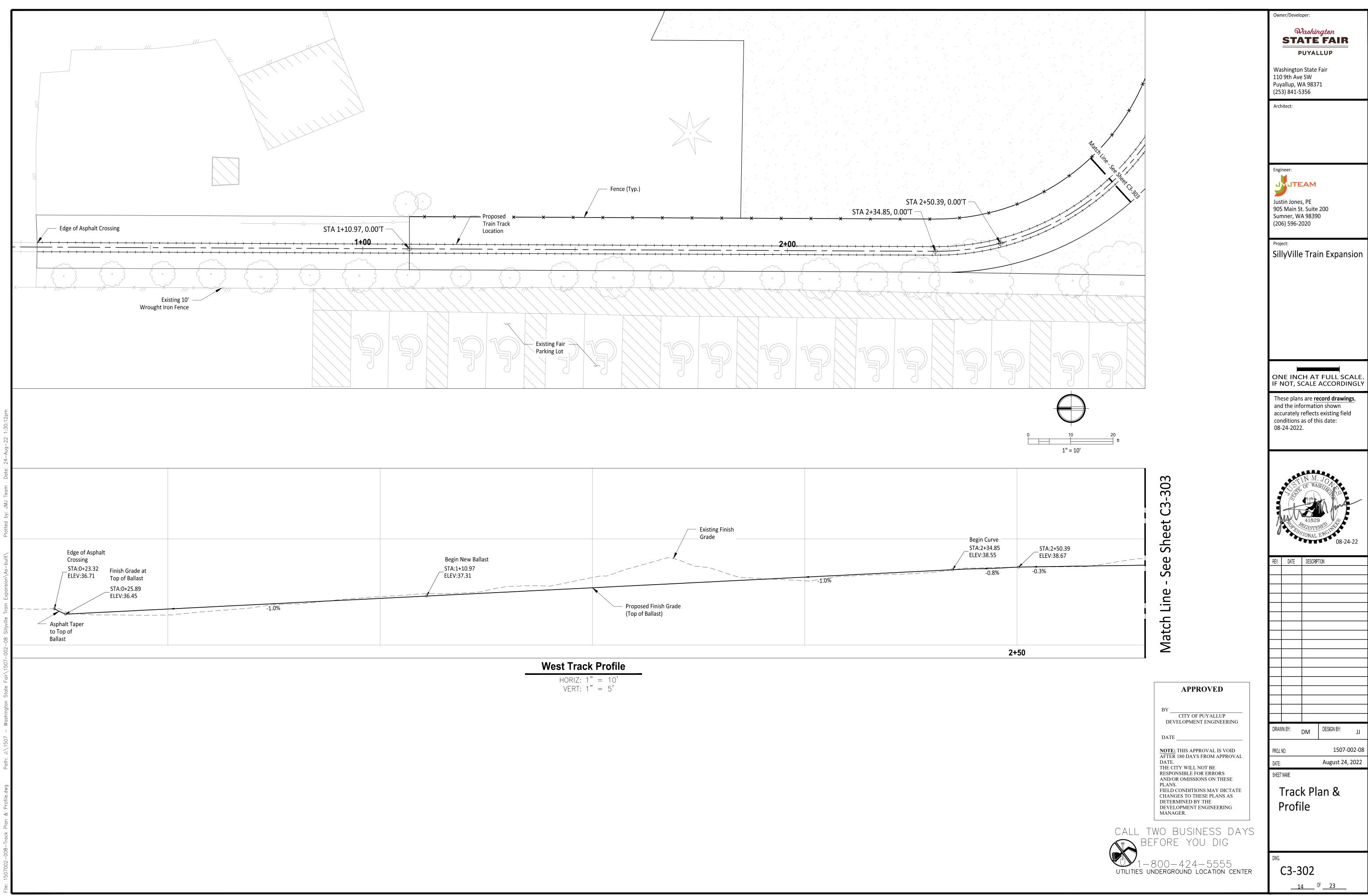
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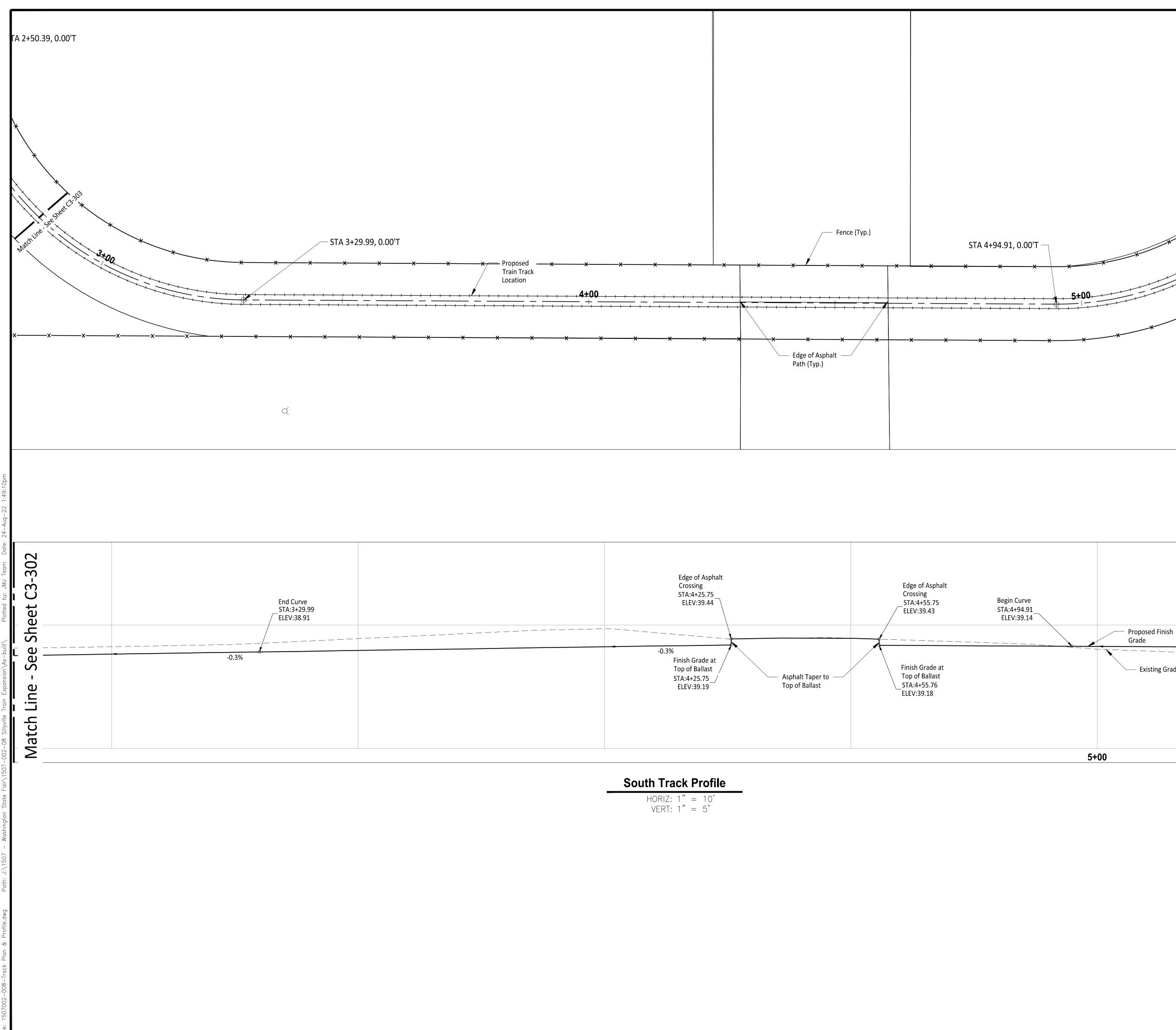
BY ______ CITY OF PUYALLUP



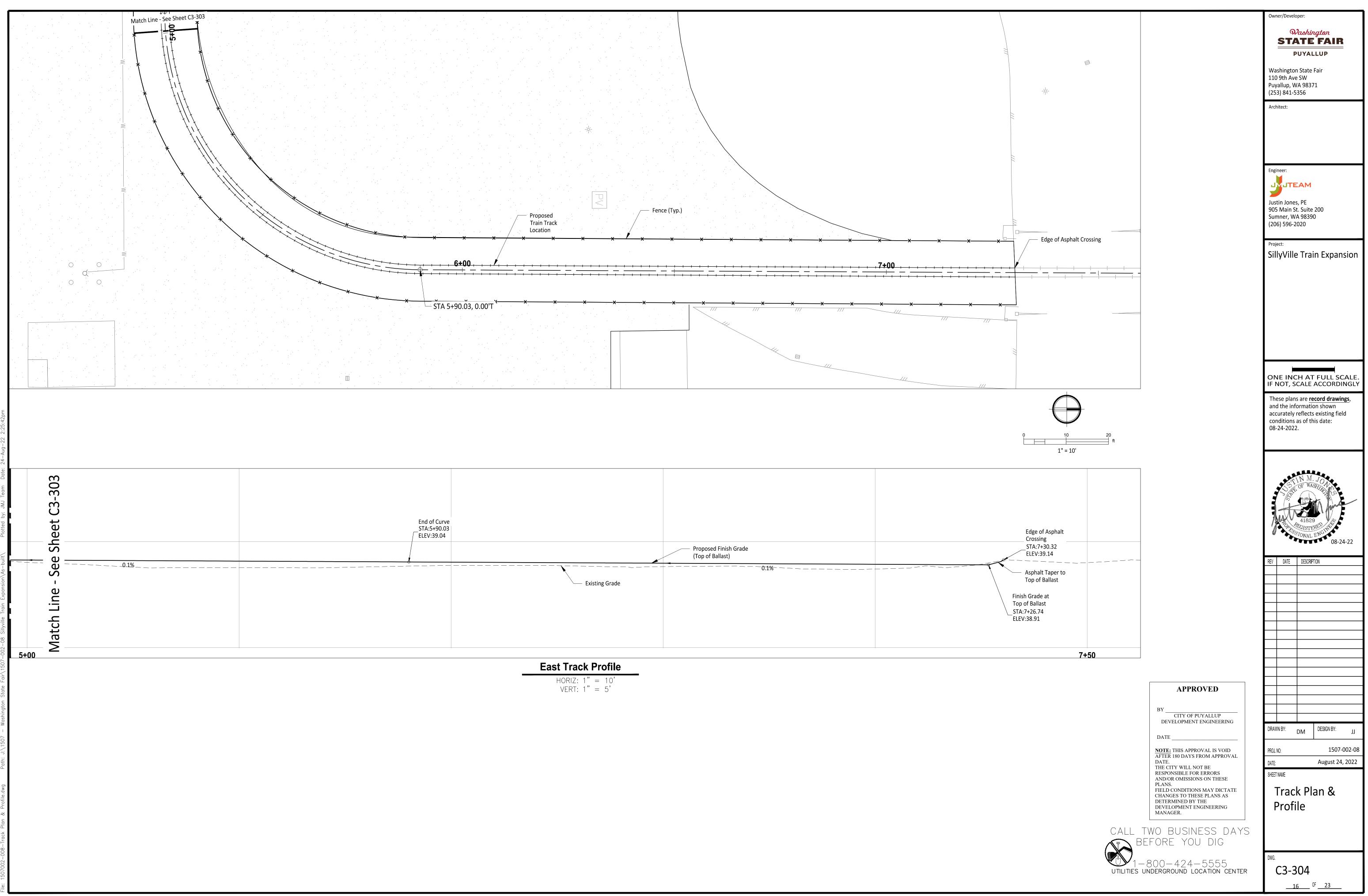
	Washington STATE FAIR PUYALLUP
	Washington State Fair 110 9th Ave SW Puyallup, WA 98371 (253) 841-5356
	Architect:
	Engineer: Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020 Project: SillyVille Train Expansion
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STA:2+78.95 ELEV:36.87 — 30 MIL Impermeable Liner	and the information shown accurately reflects existing field conditions as of this date: 08-24-2022.
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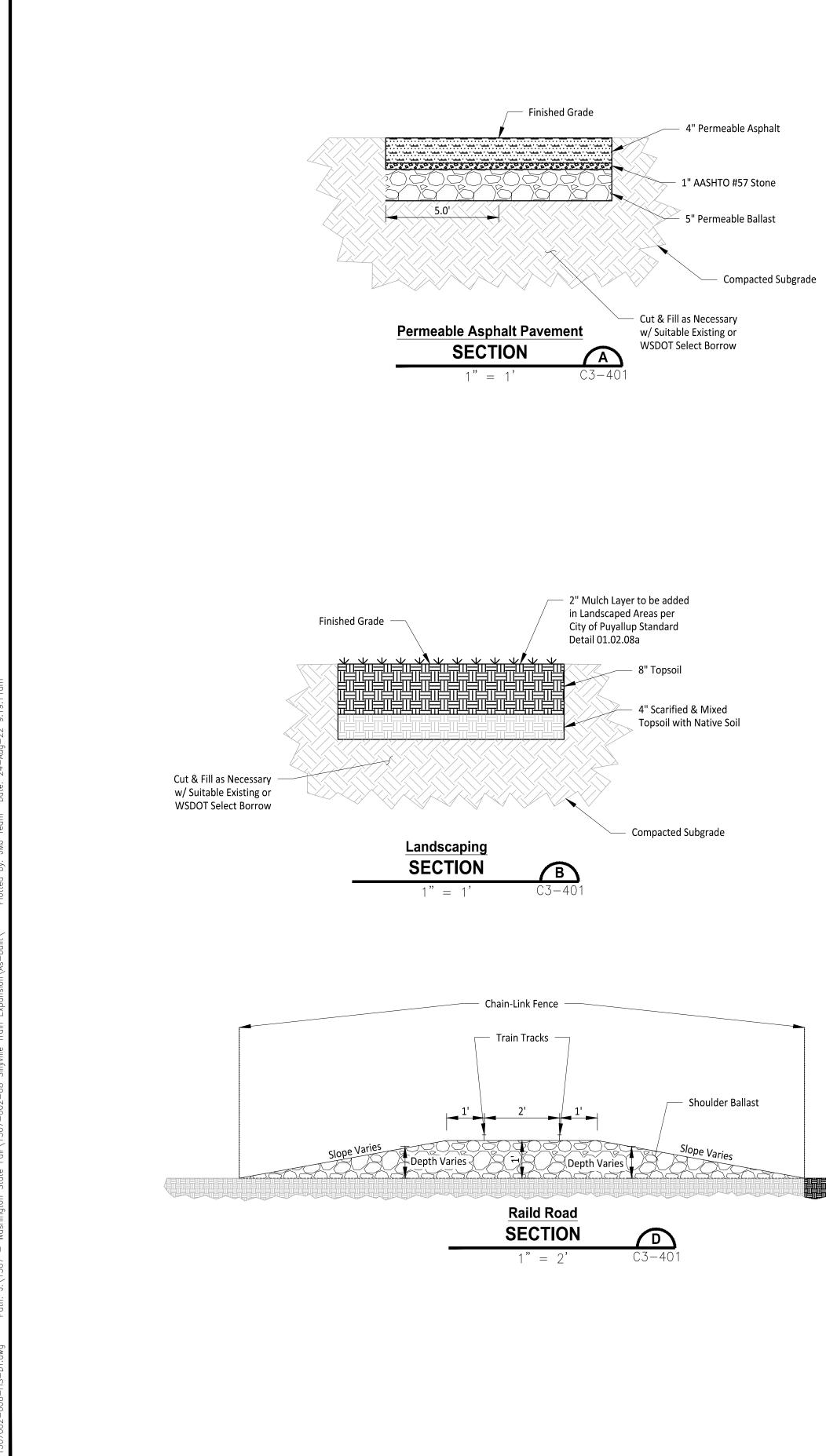
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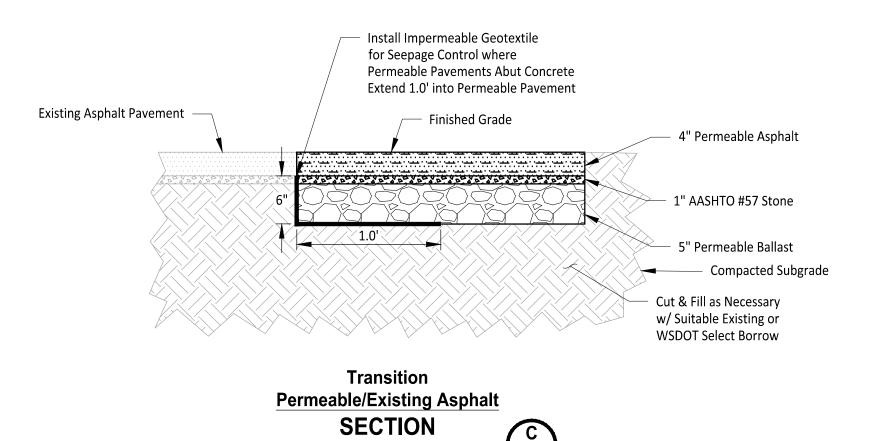


		Owner/Developer: STATE FAIR PUYALLUP Washington State Fair 110 9th Ave SW Puyallup, WA 98371 (253) 841-5356 Architect: Engineer: Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020 Project: SillyVille Train Expansion
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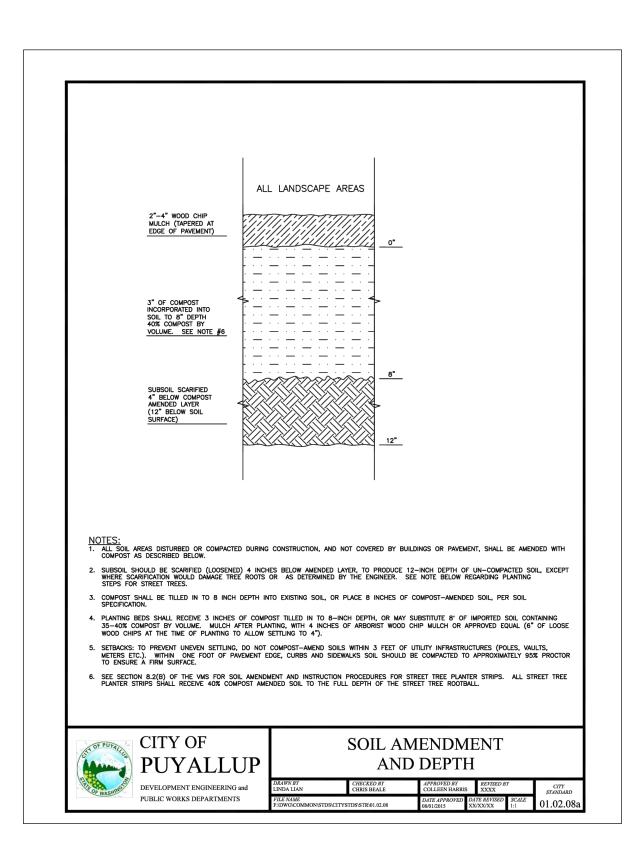


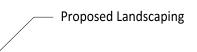
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C3-401





Owner/Developer:		
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Washington		
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PUYALLUP		
Washington State Fair		
110 9th Ave SW Puyallup, WA 98371		
(253) 841-5356		
Architect:		
Engineer:		
JTEAM		
Justin Jones, PE		
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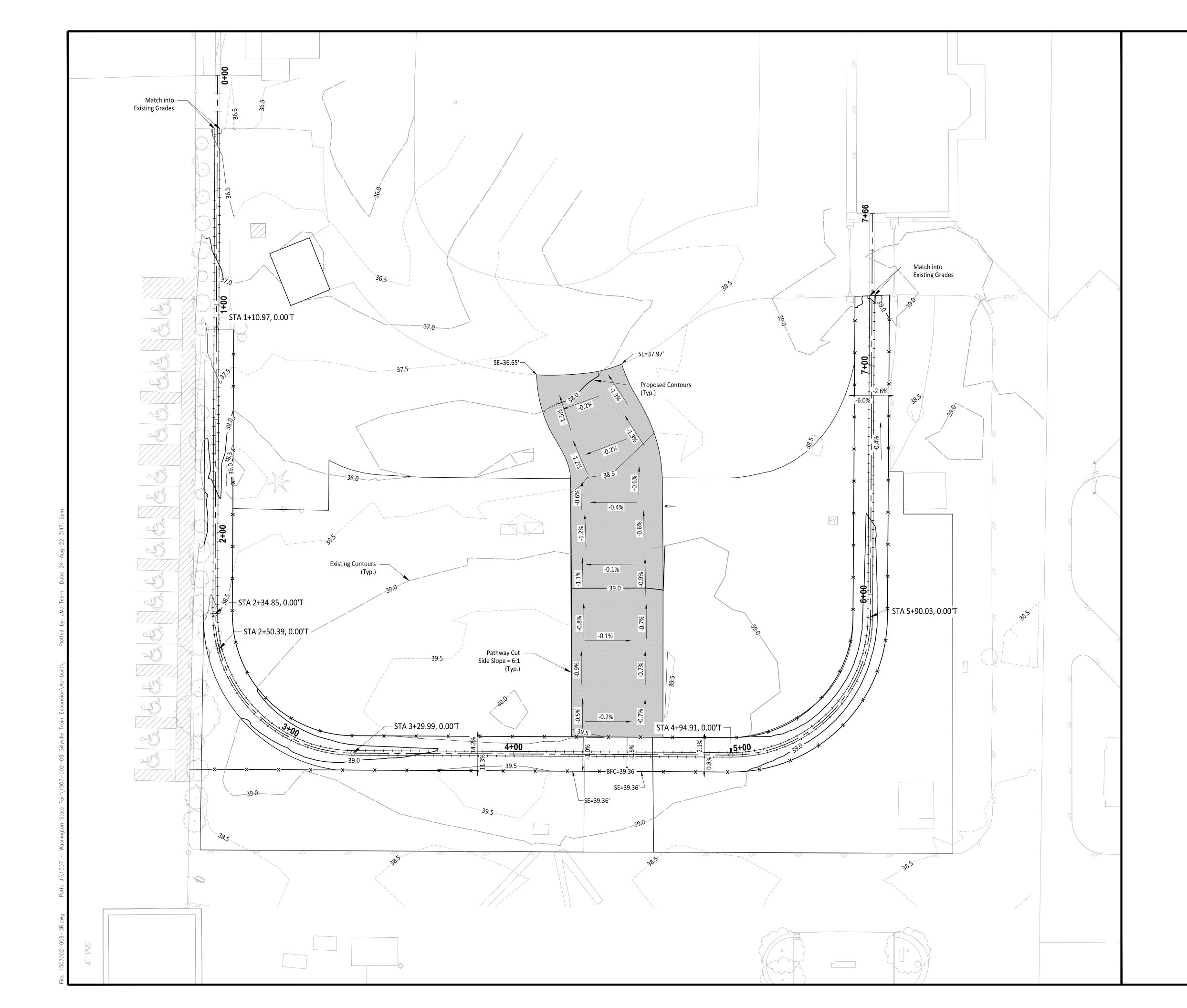
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BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING

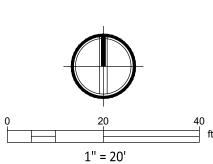
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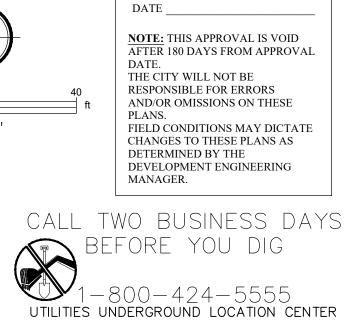
- NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE
- PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.



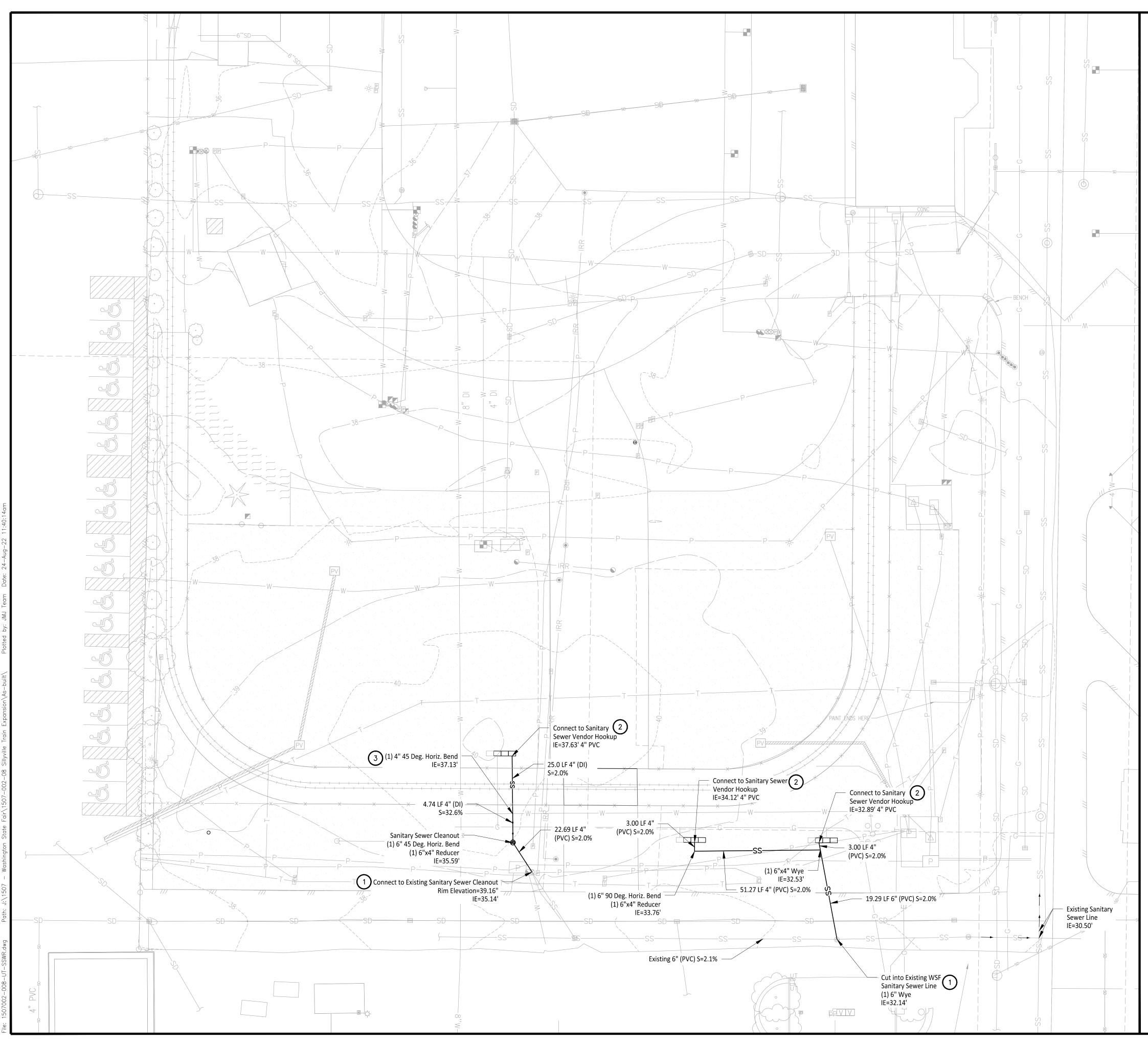


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PUYALLUP		
Washington State Fair		
110 9th Ave SW		
Puyallup, WA 98371 (253) 841-5356		
(253) 841-5356		
Architect:		
- ·		
Engineer:		
2		
Justin Jones, PE		
905 Main St. Suite 200 Sumner, WA 98390		
(206) 596-2020		
Project:		
SillyVille Train Expansion		
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BY _____ CITY OF PUYALLUP DEVELOPMENT ENGINEERING



- 1 Install Commercial Side Sewer Connection per City of Puyallup Standard Detail 04.03.04 on Sheet C4-201.
- 2 Domestic Water Service and Sanitary Sewer Vendor Hook Ups to be Installed per Detail A on Sheet C4-201.

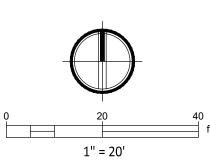
3 Contractor to install foam pad between pipe crossings with less than 18" of vertical clearance. The pad shall be O.D. x O.D. x 2.5 inches thick minimum or as required to protect the pipes. Above O.D. is equal to the outside diameter of the larger pipe. The pad shall be a polyethylene foam plank (Dow Plastics Ethafoam 220), or approved equal. See Detail B on Sheet C4-201 for detail, and Sheet C5-202 for City of Puyallup Utility Crossing Standard Details.

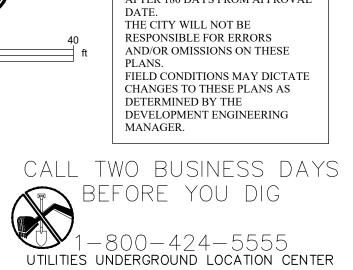
GENERAL NOTES

1. Contractor to Pothole, Locate Horizontal and Vertical Utilities and Verify with Engineer prior to any Utility Work.

Washington **STATE FAIR** PUYALLUP Washington State Fair 110 9th Ave SW Puyallup, WA 98371 (253) 841-5356 Architect: Engineer: Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020 Project: SillyVille Train Expansion ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY These plans are **record drawings**, and the information shown accurately reflects existing field conditions as of this date: 08-24-2022. 1 ALLA 41829 PORT VOIONAL P 08-24-22 REV DATE DESCRIPTION DRAWN BY: DESIGN BY: DM 1507-002-08 PROJ. NO: August 24, 2022 SHEET NAME Sanitary Sewer Plan DWG. C4-101 <u>19</u>^{0F} 23

Owner/Developer:





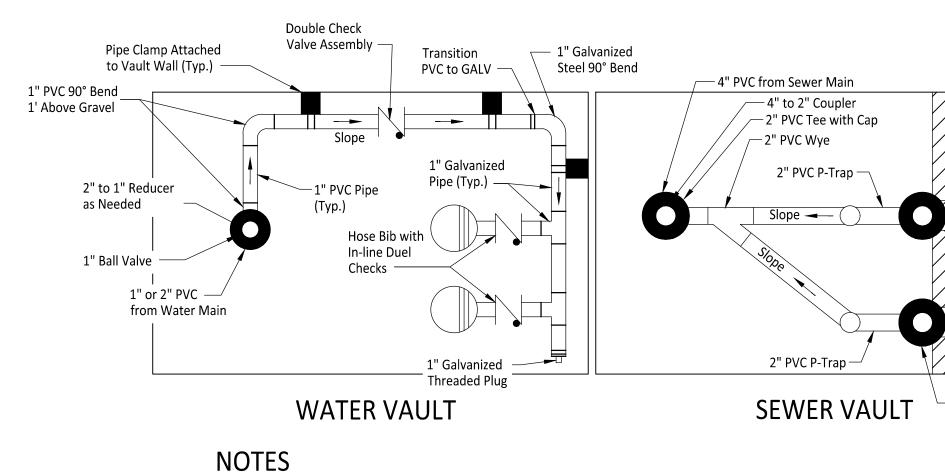
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BY _____ CITY OF PUYALLUP DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID

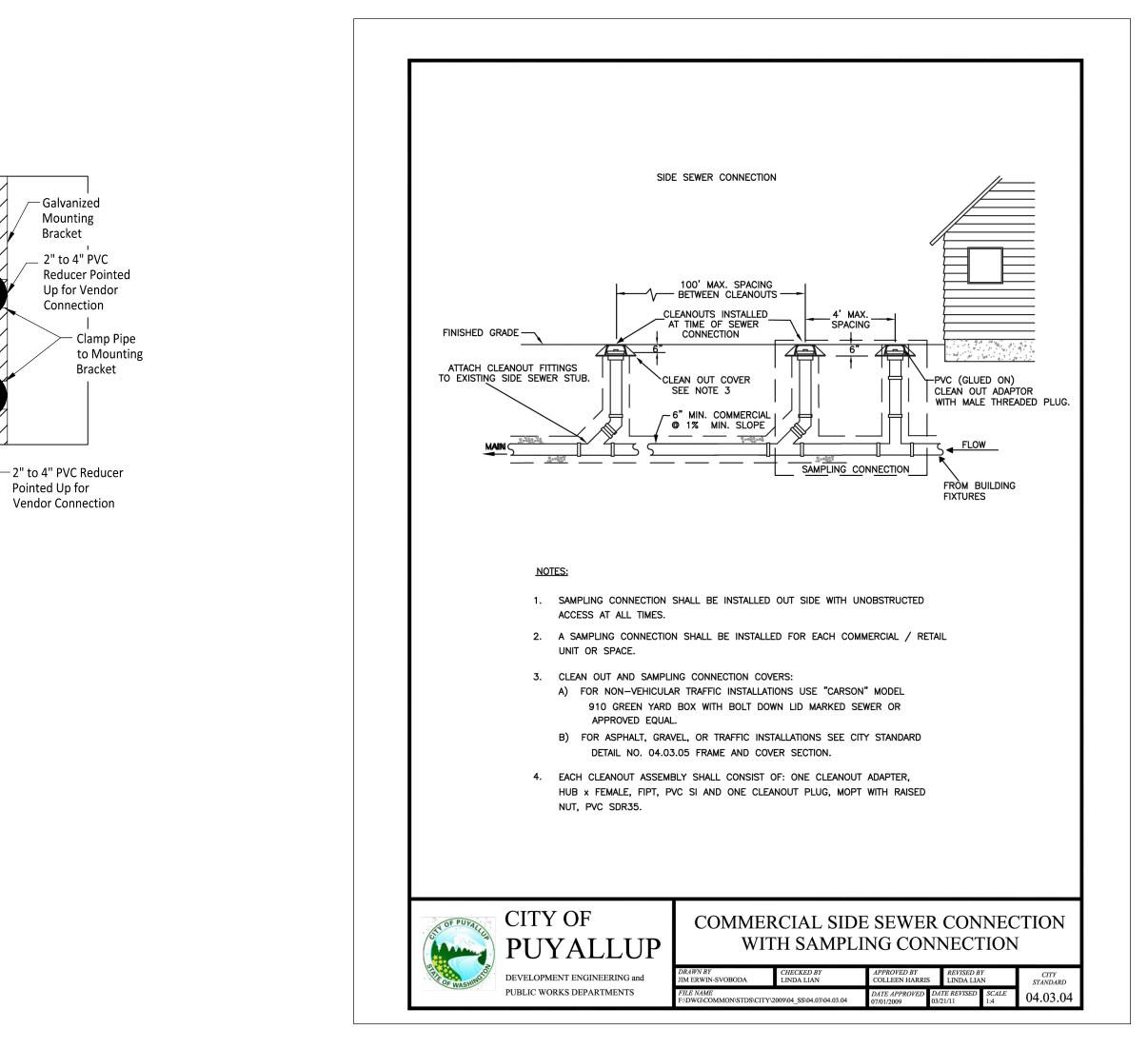
AFTER 180 DAYS FROM APPROVAL

DATE



- 1. Hose bibs and sewer connections to be no more than 6" below vault lid.
- 2. Water vault lid to have two inch hole above each hose bib.
- 3. Sewer vault lid to have to have four-inch hole directly above 2" to 4" PVC reducer.
- 4. Vault to be Type 3 24" by 36" with one 12" riser and two diamond plate double hinged H20 rated lids.
- 5. Bottom of vault to be backfilled with pea gravel.
- 6. All pipe clamps to be stainless steel.





Owner/Developer:			
Washington			
STATE FAIR			
PUYALLUP			
Washington State Fair			
Washington State Fair 110 9th Ave SW			
Puyallup, WA 98371 (253) 841-5356			
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Arch	nitect:		
Engi	ineer:		
905	Justin Jones, PE 905 Main St. Suite 200		
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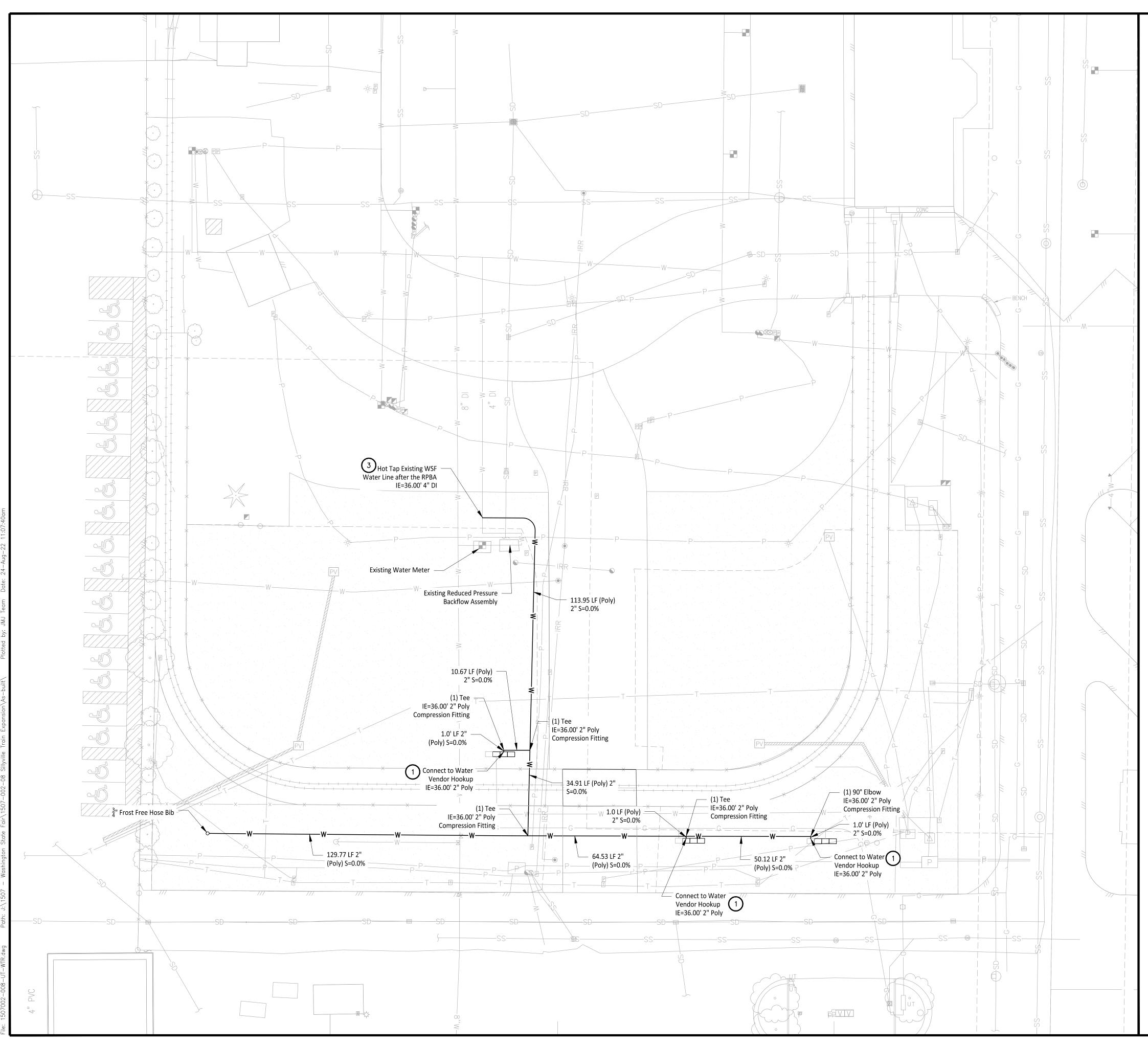
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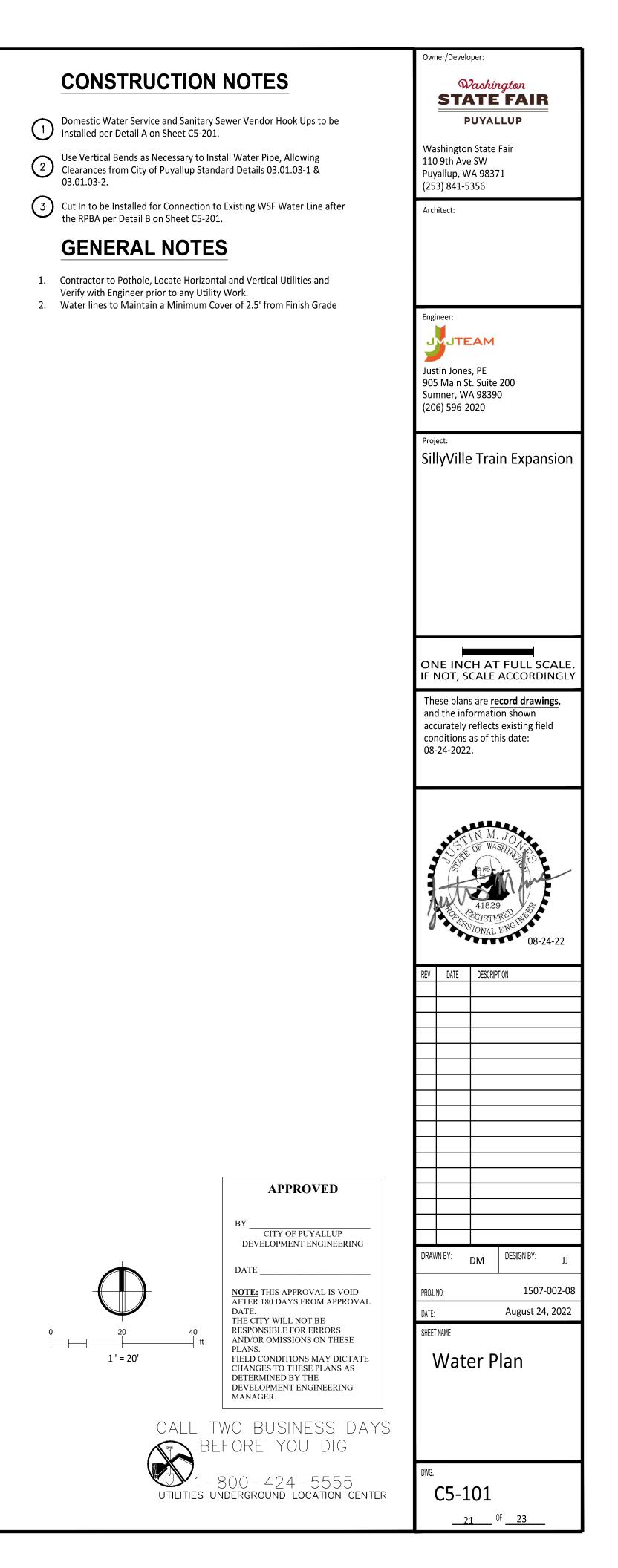
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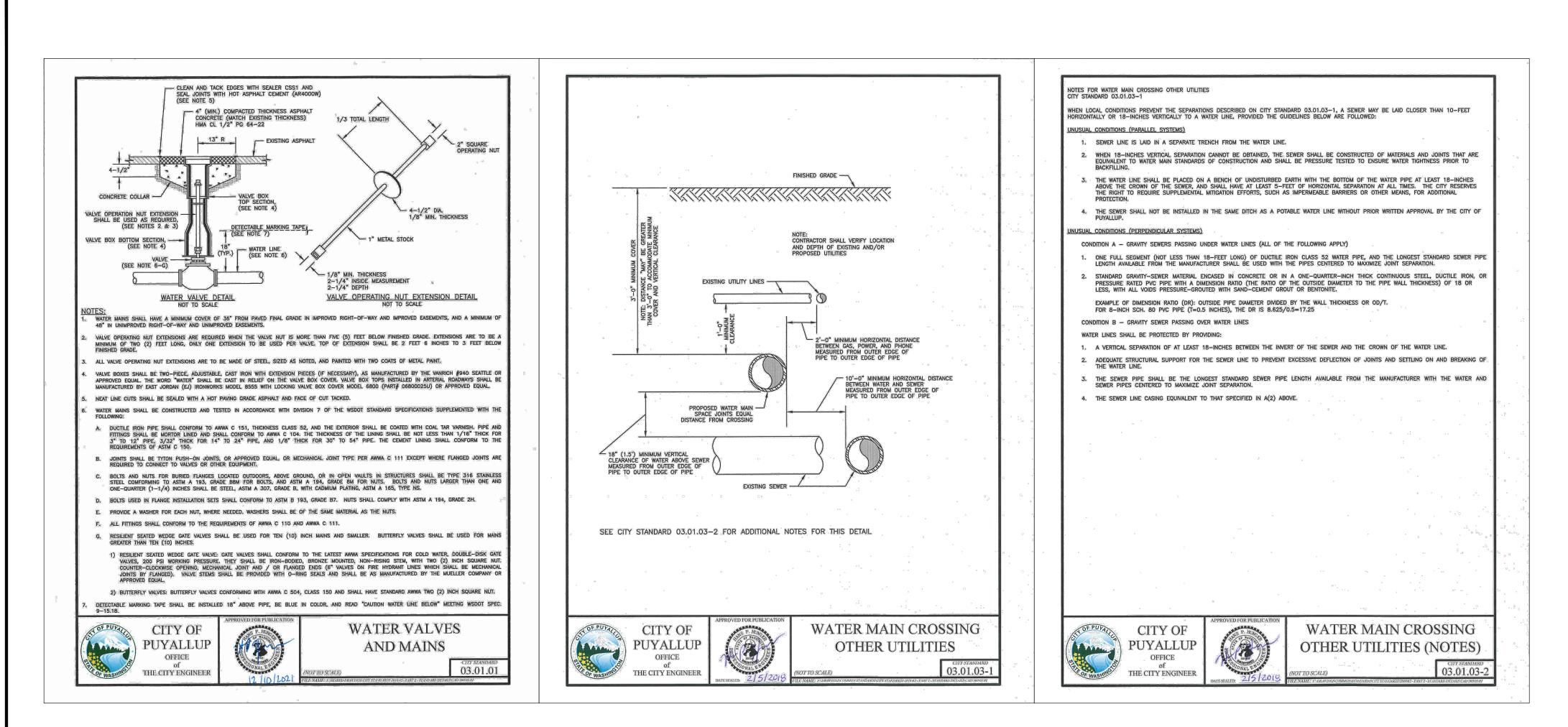
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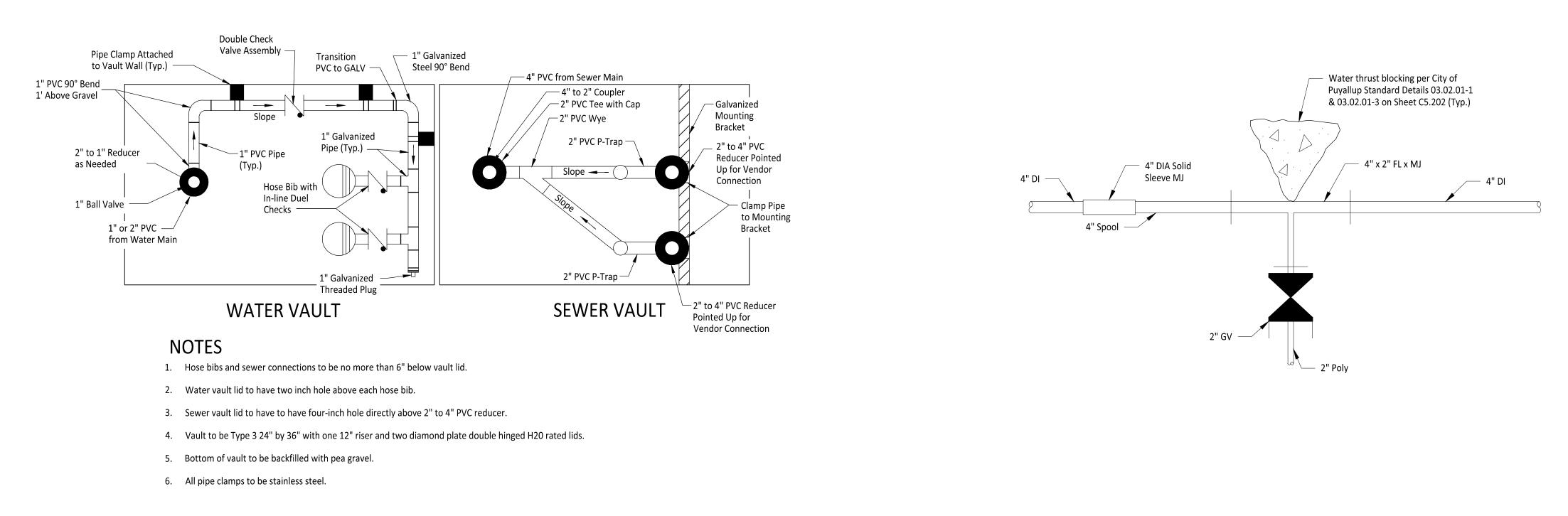
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.











WATER & SEWER VENDOR CONNECTIONDETAIL $\widehat{\mathbf{DETAIL}}$ 1" = 1'C5-201

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Washington STATE FAIR				
PUYALLUP				
Washington State Fair 110 9th Ave SW				
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Justin Jones, PE				
905 Main St. Suite 200				
	Sumner, WA 98390 (206) 596-2020			
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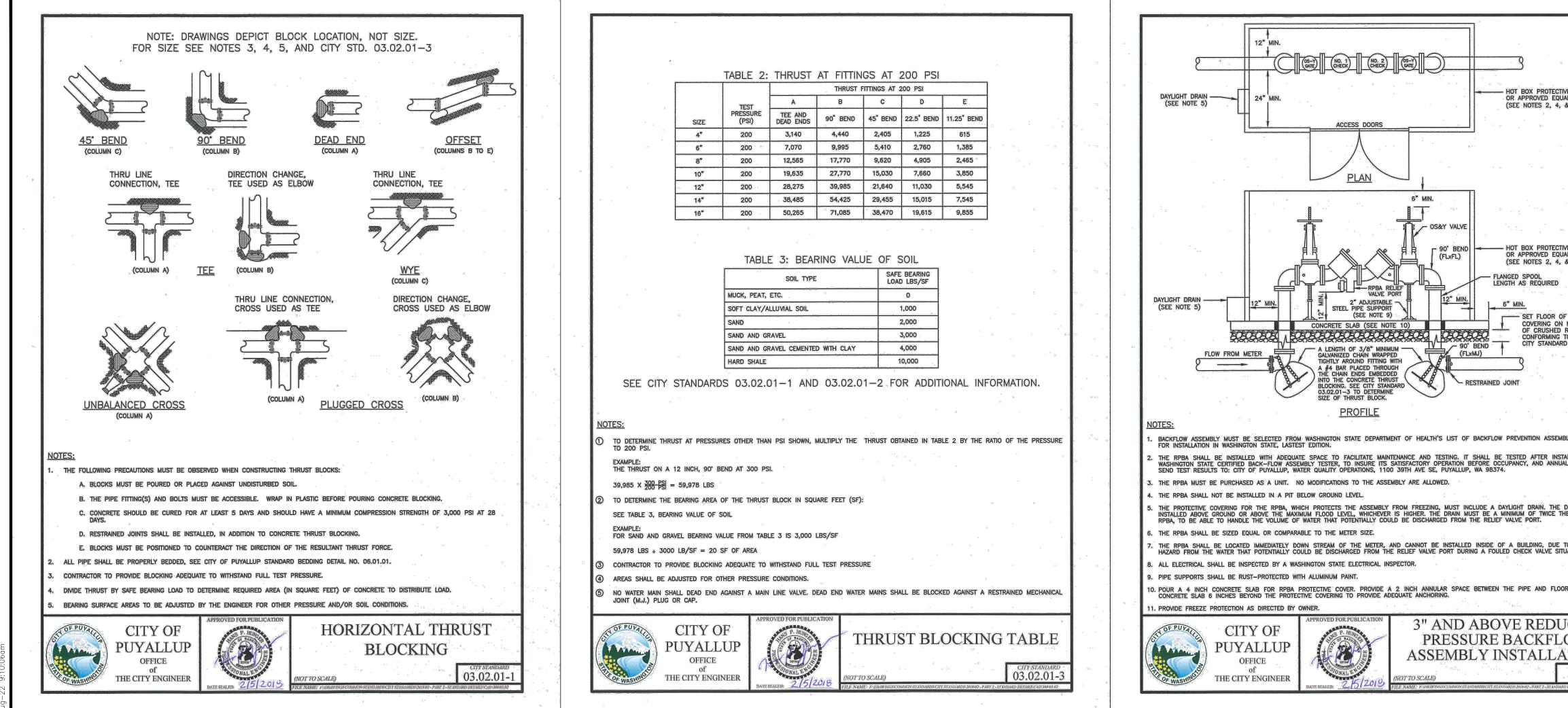
BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE _

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FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.





		Owner/Developer:
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		Washington State Fair
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		JUJTEAM
		Justin Jones, PE 905 Main St. Suite 200 Summer WA 08200
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