APPLICANT

WASHINGTON STATE FAIR 110 9TH AVE SW PUYALLUP, WA 98371

CIVIL ENGINEER

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

SURVEYOR

PARAMETRIX 1019 39TH AVENUE SE, SUITE 100 PUYALLUP, WA 98374 (253) 604-6600 CONTACT: JUSTIN EMERY, PLS

SITE INFORMATION:

SITE ADDRESS: TAX PARCEL NUMBER(S): ZONING: TOTAL PROJECT AREA:

HORIZONTAL DATUM

& BASIS OF BEARING:

110 9TH AVE SW PUYALLUP, WA 98371 0420331121 FAIR 2.04 ACRES

CONTROL INFORMATION:

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: 1194300.738

VERTICAL DATUM IS NAVD88

VERTICAL DATUM:

SURVEY DATE:

JUNE 19TH, 2023

SERVICE PROVIDERS:

WATER:	CITY OF PUYALLUP
SEWER:	CITY OF PUYALLUP
POWER:	PUGET SOUND ENERGY
GAS:	PUGET SOUND ENERGY



A PORTION OF THE NE 1/4 SECTION 33, T.20N., R.4E, W.M.

Washington State Fair

Barn M Improvements

Civil Construction Permit

VICINITY MAP

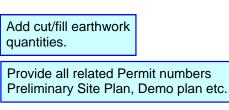


110 9th Ave SW, Puyallup, WA 98371

PROJECT MAP



110 9th Ave SW, Puyallup, WA 98371



SHEET INDEX

Drawing #	Sheet #	Sheet Name
1	C1-001	Cover Sheet
2	C1-002	General Notes
3	C1-003	General Notes
4	C1-004	General Notes
5	C1-101	Washington State Fair Map
6	C1-102	Existing Site Map
7	C1-201	Alignment Control Plan
8	C2-101	TESC Plan
9	C2-201	TESC Details
10	C2-301	Hardscape Demolition Plan
11	C2-401	Utility Demolition Plan
12	C3-101	Proposed Site Plan
13	C3-201	Grading Plan
14	C3-301	Hardscape Details
15	C4-101	Composite Stormwater Plan
16	C4-201	Stormwater Details
17	C5-101	Composite Sewer Plan
18	C5-201	Sewer Details
19	C6-101	Composite Water Plan
20	C6-201	Water Details
21	C6-202	Water Details

MRs.

PROJECT DISTURBED AREA

Total Disturbed Area:

88,672 SF

Clarify what the disturbed area is categorized as in relation to applicability to

	Owner/Developer:
	Washington STATE FAIR
	PUYALLUP
	Washington State Fair 110 9th Ave SW Puyallup, WA 98371
	(253) 841-5356
	Architect:
	Justin Jones, PE 905 Main St. Suite 200
	Sumner, WA 98390 (206) 596-2020
	Project:
	Washington State Fair Barn M Improvements
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72 SF	41829 4189 4189 4189 4189 4189 4189 4189 4189 4189 4189 4189
	REV DATE DESCRIPTION
APPROVED	
BY	
CITY OF PUYALLUP DEVELOPMENT ENGINEERING	DRAWN BY: EJK DESIGN BY: JJ
DATE	PROJ. NO: 1507-016
AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE	PROULNO: 1507-018 DATE: April 30, 2025
RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.	SHEET NAME
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING	Cover Sheet
$\square MANAGER.$	COVEL SHEEL
CALL TWO BUSINESS DAYS BEFORE YOU DIG	
1-800-424-5555 UTILITIES UNDERGROUND LOCATION CENTER	DWG. C1-001

GENERAL 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").
- 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

- 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 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 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.
- 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
- 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.

30-inch pipe shall meet or exceed ASTM F2736 and AASHTO M330, Type

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").
- 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. 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.

GRADING, EROSION, AND SEDIMENT CONTROL PLAN NOTES

- responsibility of the permittee.
- retention facilities.
- approved by the City.
- is satisfied.
- proposed for retention.

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.

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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 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.

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. 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

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

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

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

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

APPROVED	
BY CITY OF PUYALLUP	
DEVELOPMENT ENGINEERING	DRAW
DATE	
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.	PROJ. DATE:
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS	SHEET
DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.	
CALL TWO BUSINESS DAYS BEFORE YOU DIG	
1 - 800 - 424 - 5555	DWG.
UTILITIES UNDERGROUND LOCATION CENTER	

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	STA	TE FAIR
PUYALLUP		
Wa	shingtor	n State Fair
110 9th Ave SW Puyallup, WA 98371		
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WATER NOTES

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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.

- blowoff).

26. New Water Main Installation:

Main Break Procedure."

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	Hypochlorite 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

- connection to the existing water system.
- existing valves.
- again 24 hours after the first set of samples.
- satisfactory results are obtained.

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. <u>Repair without depressurization</u> — 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

b. <u>Repair/cut-in with depressurization</u> - 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

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

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

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

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

SANITARY SEWER TESTING REQUIREMENTS

1. Gravity sanitary sewer cleaning and testing requirements shall be as outlined in WSDOT Section 7-17.3(2). Sanitary sewer cleaning and testing shall be completed to the satisfaction of the Office of the City Engineer and/or Public Works Department prior to final acceptance. After completion of all project utility work (sewer, water, storm, etc.) and associated utility trench backfill and compaction, sewer lines shall be cleaned and tested by the Contractor prior to final project acceptance, as outlined in Section 406.1 through 406.4. At the end of the Maintenance and Warranty Period, the City will perform a final CCTV inspection per 406.4 to verify that the work performed conforms to City Standards prior to bond release.

1.1. <u>Cleaning</u>

Physical connection to the existing City sewer system shall not be allowed until all pipes have been thoroughly cleaned by jetting and/or pigging to remove any solids or construction debris that may have entered the pipe.

The Contractor shall arrange to have the water accumulated during construction and sanitary system cleaning operations removed from the sewer system by a Vactor truck. Water from the new sewer extension shall not be permitted to enter the existing City system until final project approval. Sediment or debris introduced to existing City sewers as a result of any construction activity shall be removed immediately by the Contractor in conformance with WSDOT Section 7-17.

1.2. <u>Deflection Testing</u>

Gravity sanitary sewers shall be tested for deflection prior to visual inspection. Thermoplastic pipe shall be tested for deflection not less than 30 days after the trench backfill and compaction has been completed. Deflection testing shall be conducted by pulling a mandrel (rigid or adjustable) with a diameter not less than 95 percent of the normal diameter of the pipe being tested. Mandrel testing shall be conducted in conformance with WSDOT Section 7-17.3(2)G.

1.3. <u>Leakage Testing</u>

All new gravity sanitary sewer mains and the right-of-way laterals shall be subject to a low-pressure air test per WSDOT Section 7-17.3(2)F. Low pressure air testing shall be conducted after backfilling is completed and the backfill material has been compacted in conformance with the approved plans. Conforming compaction shall be verified by nuclear gauge testing and/or proof rolling at the discretion of Engineering staff. The City Engineer or designee shall observe all testing to verify satisfactory completion. The City Engineer or designee may require that air test pressure be maintained at 4.0 psig with no drop for 15 minutes for a passing leakage test where groundwater pressure is deemed negligible, or at the City Engineer's or designee's discretion.

The Contractor shall furnish all necessary equipment and personnel for conducting the pressure test. The Contractor shall provide certification from a certified/accredited laboratory that testing equipment is accurate. All equipment and personnel shall be subject to approval by the City Engineer or designee.

If any portion of the sanitary system fails to meet the testing requirements, the Contractor shall determine, at their own expense, the source of leakage and shall repair or replace all defective materials or workmanship. The completed pipe installation shall meet the minimum testing requirements before being considered acceptable.

1.4. <u>Television Inspection</u>

All new gravity sanitary sewer extensions shall be visually inspected in conformance with WSDOT Section 7-17.3(2)H, following satisfactory trench compaction testing, flushing, low pressure air testing, and deflection testing. All manholes shall be channeled and grade rings set in place prior to sewer video inspection.

The remote camera used in sewer visual inspection shall be one specifically designed for such an application, with the ability to rotate the camera 180 degrees and lighting suitable to allow a clear picture of the entire periphery of the pipe. The camera shall proceed through the pipe at a sufficiently slow velocity to allow adequate inspection of all pipe All sewer lateral fittings and joints and suspect pipe joints shall be closely inspected by rotating the camera as needed to provide a clear view

The Contractor shall introduce water to the new sewer system immediately prior to the visual inspection by adding water to the upstream manhole until water is seen flowing in the lowest manhole. Video inspection of the line shall begin when flow in the lowest manhole has stopped. A 1-Inch sewer ball shall be attached to the front of the camera to provide a basis for estimating the depth of the ponding within the sewer pipe.

<u>Television Inspection Acceptance Criteria:</u>

1.4.1. Any ponding within a pipe shall be less than one-half inch (1/2") in depth.

1.4.2. The total accumulated ponding length, regardless of depth, from manhole to manhole shall be less than ten (10) percent of the total length from manhole to manhole.

Any sewer pipe that exceeds either of the above acceptance criteria will be rejected and require repair and/or replacement by the Contractor.

The Contractor shall bear all costs for the correction of any deficiencies found during TV inspection, including the costs for additional TV inspection and leakage testing needed to verify the deficiencies were corrected. All components of the video and recording equipment shall be sufficient to provide picture quality to the satisfaction of the City Engineer or designee.

Upon completion of the video inspection, the digital video, of common format, and written inspection report shall be submitted to the City for review. At a minimum, the inspection report shall contain the following information:

-Size, length, and material type of the sewer main.

-Location of all lateral connections.

- -Estimated depth and location of all ponding over 1/4 inch in depth
- -Manhole numbers that correspond to the approved plans
- -Street name and/or location of sewer main

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



TESTING AND INSPECTION

Stormwater system cleaning and testing requirements shall be as outlined in WSDOT Section 7–17.3(2) and the standards herein. Stormwater system cleaning and testing shall be completed to the satisfaction of the City Engineer, or designee, prior to final acceptance. After completion of all project utility work (sewer, water, storm, etc.) and associated utility trench backfill and compaction, stormwater lines shall be cleaned and tested by the Contractor prior to final project acceptance, as outlined in Section 209.1 through 209.4. At the end of the maintenance and warranty period, the developer/contractor is required to clean and flush the lines as outlined in the standards herein. Other testing may be required at the end of the maintenance and warranty period, as determined by the City Engineer.

<u>209.1 Cleaning/Flushing</u>

The Contractor shall arrange to have all water and debris accumulated during construction removed from the system. Stormwater cleaning operations shall consist of jetting all stormwater lines, both main lines and laterals. Jetting lines shall never result in pushing sediment or debris downstream and all sediment, debris and water shall be removed from the stormwater system by a vactor truck. Sediment or debris introduced to the City's stormwater system because of construction activity shall be removed immediately by the Contractor in conformance with WSDOT Section 7–04.

209.2 Deflection Testing

Stormwater pipes shall be tested for deflection prior to visual inspection. Thermoplastic pipe shall be tested for deflection not less than 30 days after the trench backfill and compaction has been completed. Deflection testing shall be conducted by pulling a mandrel (rigid or adjustable) with a diameter not less than 95 percent of the normal diameter of the pipe being tested. Mandrel testing shall be conducted in conformance with WSDOT Section 7-17.3(2)G.

<u>209.3 Pressure Testing</u>

All new stormwater pipes shall be subject to a low-pressure air test per WSDOT Section 7-17.3(2)F. Pressure testing shall be in accordance with the following, unless otherwise determined by the City Engineer, or designee.

- 1. Low pressure air testing shall be conducted after backfilling is completed. Backfill material shall be compacted in accordance with the approved plans.
- Conforming compaction shall be verified by nuclear gauge testing and/or proof rolling. The City Engineer, or designee, shall observe all testing to verify satisfactory completion.
- 3. The Contractor shall furnish all necessary equipment and personnel for conducting the pressure test. The Contractor shall provide certification from certified/accredited laboratory that testing equipment is accurate. All equipment and personnel shall be subject to approval.
- 4. The Contractor shall conduct a preliminary pressure test prior to City observation, any portions of the system that fail the preliminary test should be remedied prior to City observation.
- 5. If any portion of the stormwater system fails to meet the testing requirements, the Contractor shall determine, at their own expense, the source of leakage and shall repair or replace all defective materials or workmanship. The completed pipe installation shall meet the minimum testing requirements before being considered acceptable.

209.4 Television Inspection

All new stormwater pipes shall be visually inspected in conformance with WSDOT Section 7-17.3(2)H, following satisfactory trench compaction testing, flushing, low pressure air testing, and deflection testing. All manholes and catch basins shall be watertight with grade rings set in place prior to stormwater video inspection. The remote camera used in stormwater visual inspection shall be one specifically designed for such an application, with the ability to rotate the camera 180 degrees and lighting suitable to allow a clear high-quality picture of the entire periphery of the pipe. The camera shall proceed through the pipe at an appropriate velocity to allow adequate inspection of all pipe joints. All pipe joints shall be closely inspected by rotating the camera as needed to provide a clear view. The Contractor shall introduce water, with dye, to the stormwater system immediately prior to the visual inspection. The water shall be added to the upstream manhole until water is seen flowing in the downstream manhole. An incremented 1—inch sewer ball shall be attached to the front of the camera to provide a basis for estimating the depth of the ponding within the stormwater pipe.

All new stormwater pipes shall be inspected by television camera with the City Engineer, or designee, present. Video and inspection reports shall be submitted to the City and include the following:

- 1. An electronic report of the inspection and copy of the inspection video in electronic form on a flash drive.
- 2. Video shall be labeled with the date and time, street name or location, upstream/ downstream structure, pipe size, pipe length and pipe material type.
- 3. Location and depths of all ponding $\frac{1}{4}$ or greater.
- 4. Location of deflections, deformation, or structural defects.
- 5. One file should be submitted with all stormwater pipe runs for the project. One-by-one submittals will not be accepted.
- 6. Video or inspection reports failing to meet criteria 1-5 above will not be reviewed and will be returned to the contractor/developer.

209.5 Acceptance Criteria

All new storm pipe installed (public and private) shall be tested, in accordance with Section 209, and video shall be reviewed and approved by the City Engineer, or designee, prior to the placement of curb and gutter or pavement. Unless determined otherwise by the City Engineer, or designee, all repairs identified shall be completed as follows:

1. Any ponding within a pipe shall be less than one-half inch (1/2") in depth.

2. The total accumulated ponding length, regardless of depth, from manhole to manhole shall be less than ten (10) percent of the total length from manhole to manhole.

3. The use of couplers is prohibited.

4. If a pipe needs to be cut into for the repair, the storm pipe run shall be removed and reinstalled from the nearest bell to the nearest catch basin.

5. If removal and replacement of any section of storm pipe is required to make a repair, the entire length of mainline shall be required to be retested after repairs are made.

6. A new video shall be required after the required repairs have been completed, in accordance with Section 209.4.

Any stormwater pipe that exceeds any of the above acceptance criteria will be rejected and require repair and/or replacement by the Contractor.

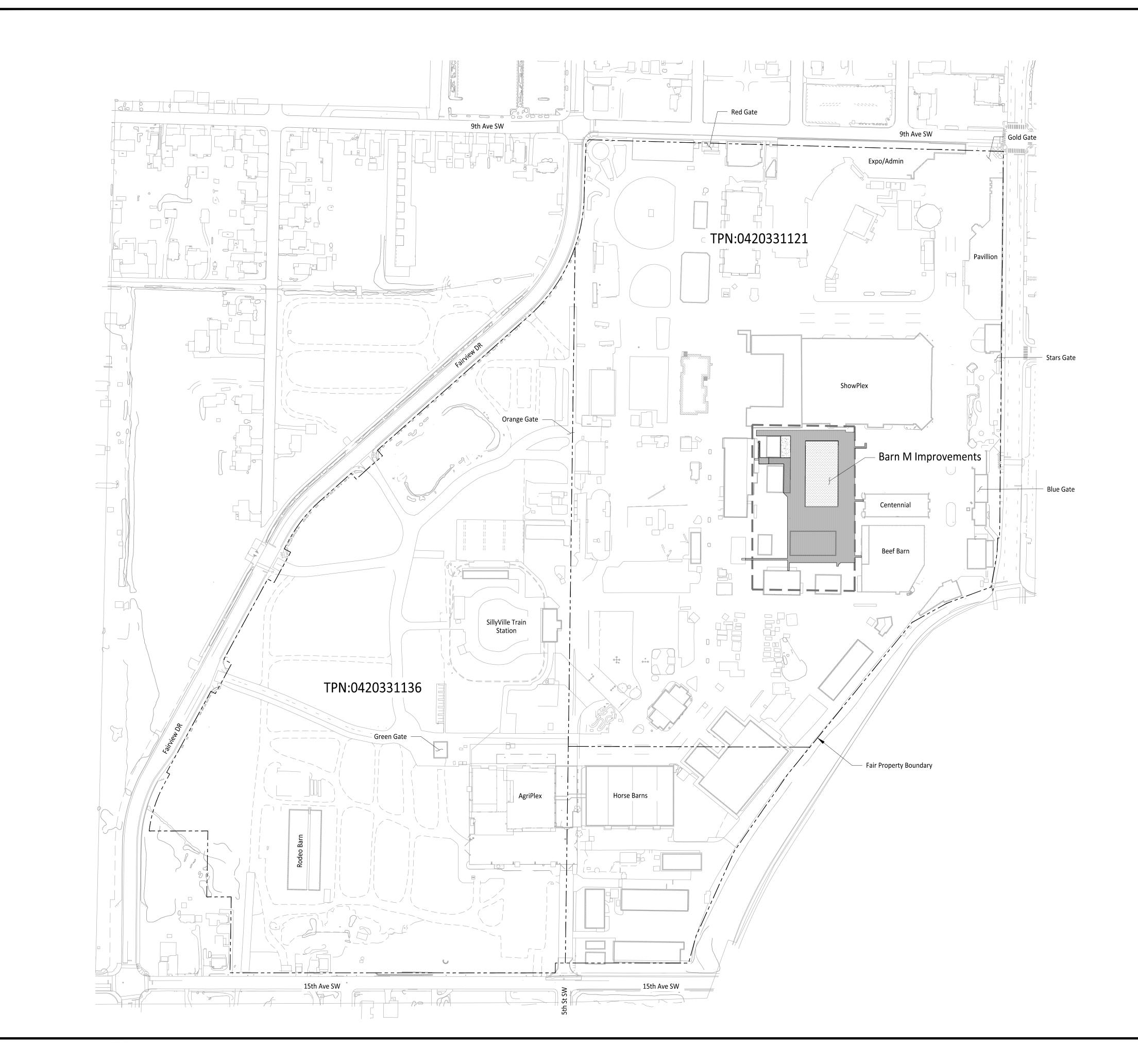
The Contractor shall bear all costs for the correction of any deficiencies found during TV inspection, including the costs for additional TV inspection and pressure testing needed to verify that the deficiencies were corrected. All components of the video and recording equipment shall be sufficient to provide picture quality to the satisfaction of the City Engineer, or designee.

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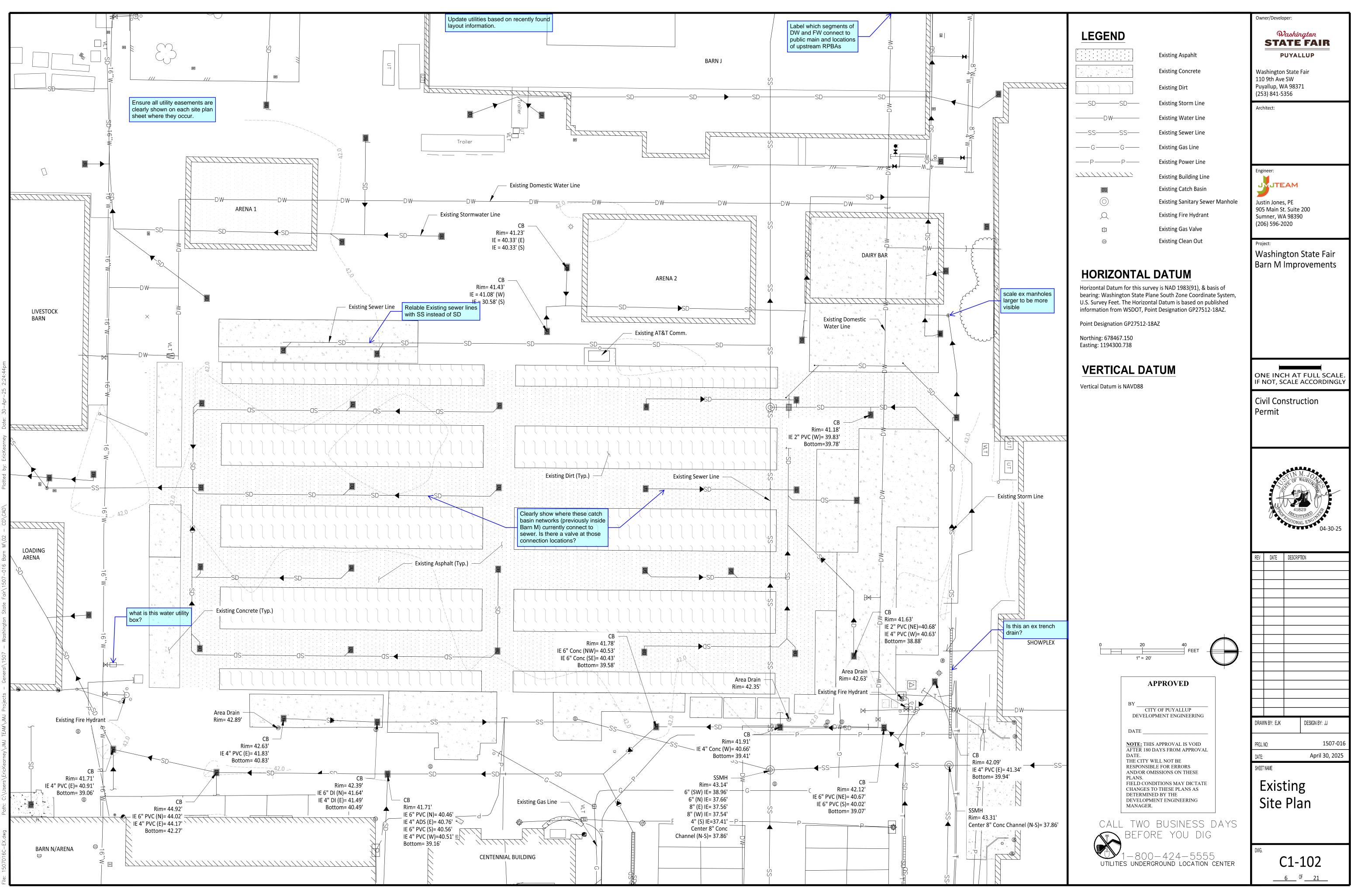
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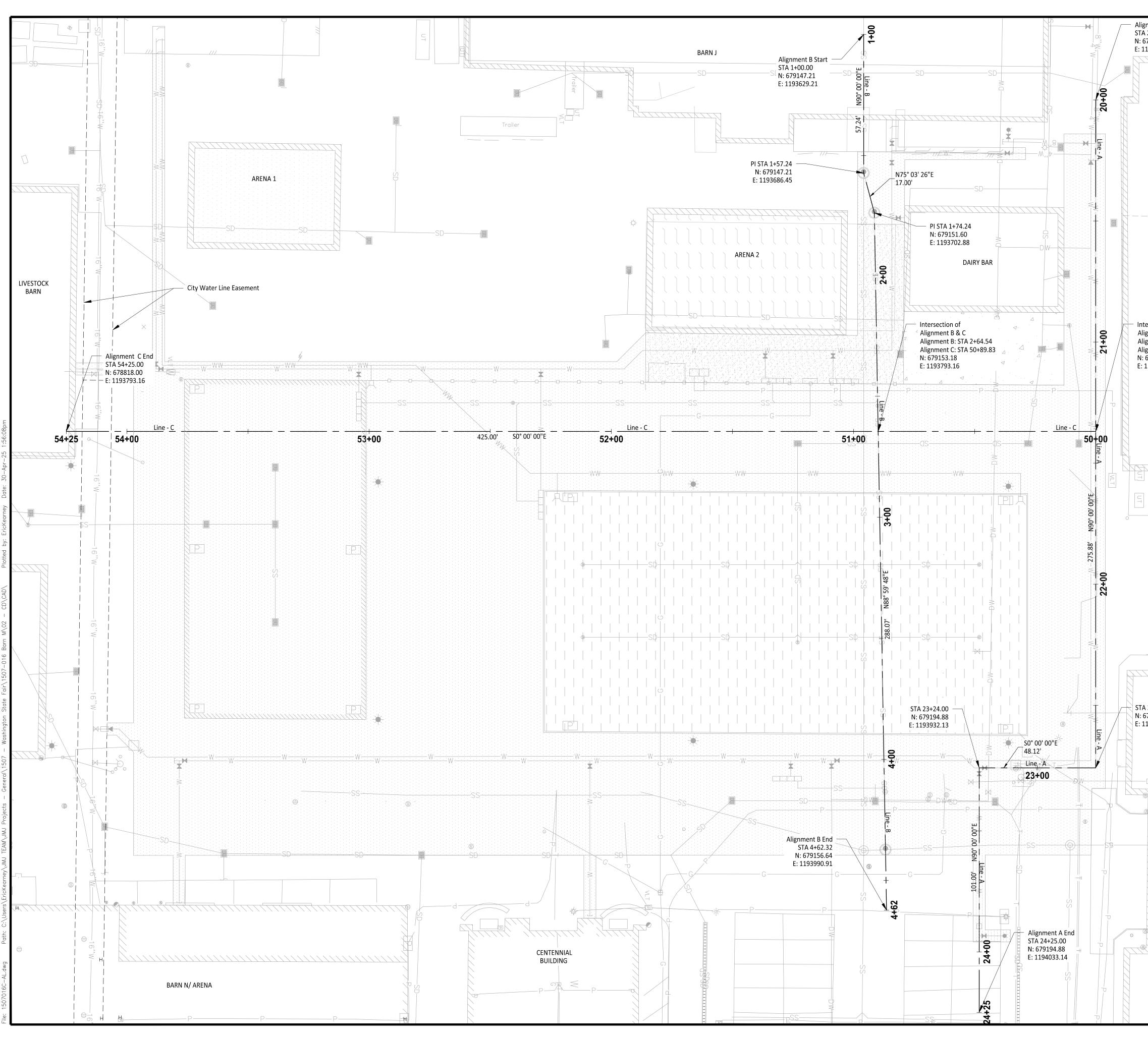
RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

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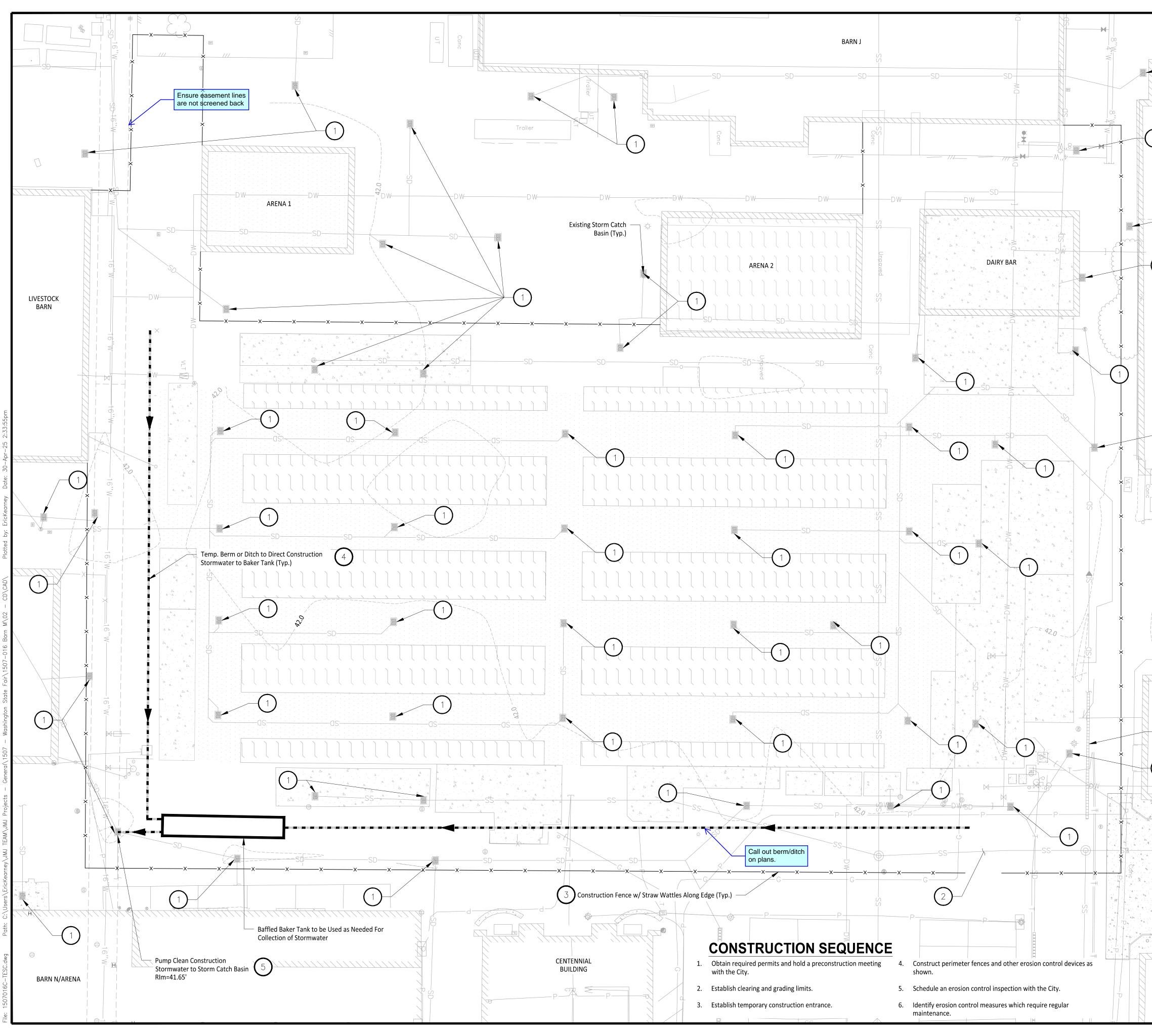


	Owner/Developer:
	Architect:
	Engineer: Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020
	Project: Washington State Fair Barn M Improvements
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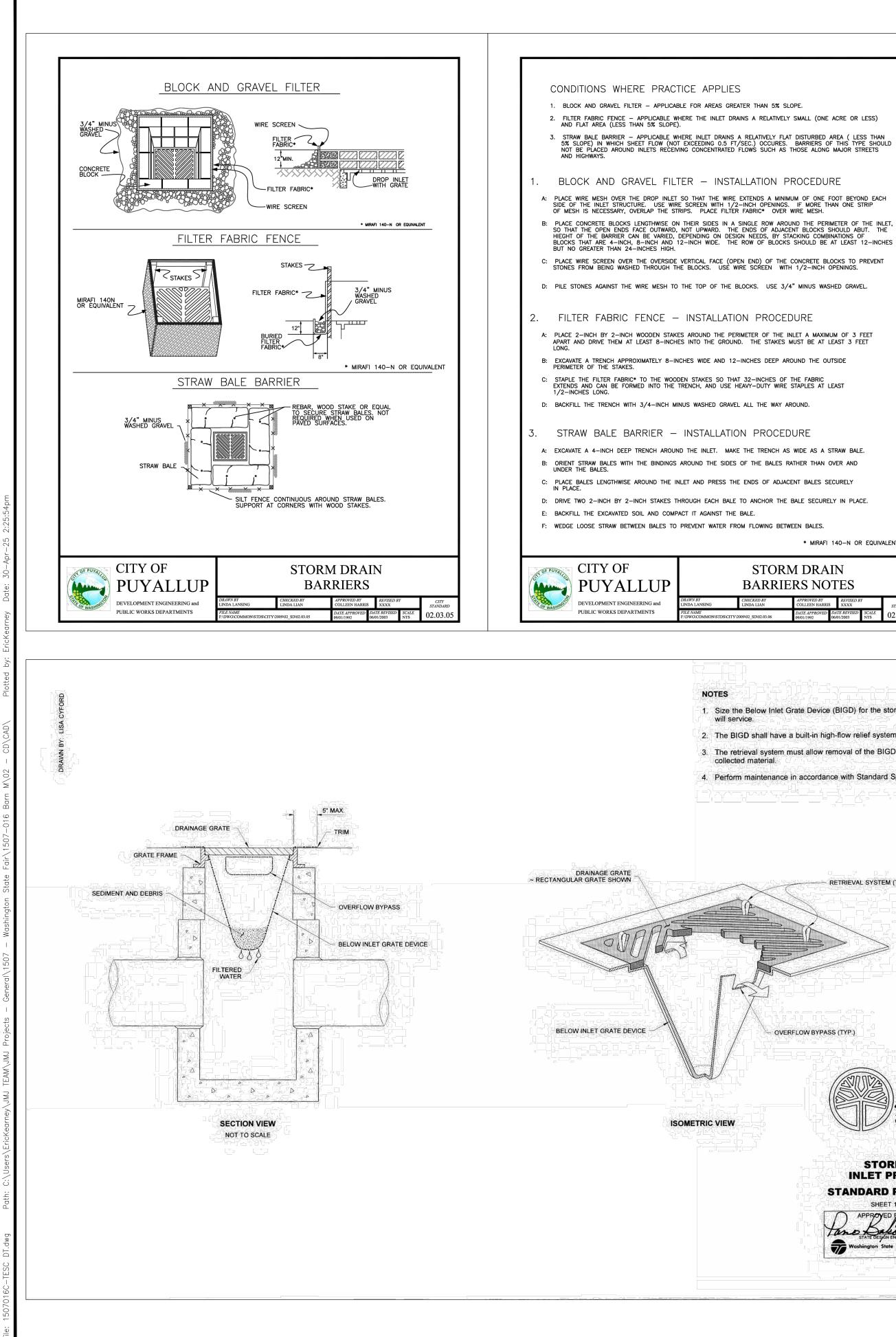




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		PUYALLUP Washington State Fair 110 9th Ave SW Puyallup, WA 98371 (253) 841-5356
		Architect:
		Engineer:
		Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020
		Project: Washington State Fair Barn M Improvements
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		Owner/Developer:
	LEGEND	Washington STATE FAIR
	Construction Fence	PUYALLUP
	Temp Berm or Ditch Line reference plan sheet number the details are located on. Ex:	Washington State Fair 110 9th Ave SW
	"SEE CITY STANDARD NO. 03.05.01 ON SHEET 3 OF 3".	Puyallup, WA 98371 (253) 841-5356
	GENERAL NOTES 1. Construct Pipe trench bedding and backfill as necessary	Architect:
1)	 2. Install straw bale barriers, wattles, and other necessary 	
	TESC measures as required.3. Exposed soils shall be watered as necessary to prevent	
\frown	dust from leaving the site.4. All concrete handling and equipment washing shall be in	Engineer:
	accordance with Washington DOE BMP C151.5. Install high visibility construction fence where silt fence	JUSTICAM
	is not required as shown per DOE BMP C103.6. A CESCL shall be available on-site or on-call for the	905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020
$\begin{pmatrix} 1 \end{pmatrix}$	duration of construction operations.	Project:
	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 days from time of clearing & grading shall be revegetated with the native vegetation.	Washington State Fair Barn M Improvements
	8. All BMP's per City of Puyallup standards and protection CSWPPP.	
	 If necessary, alternate sediment control methods shall be submitted by the contractor for review and approval prior to construction. 	ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
SHOWPLEX	CONSTRUCTION NOTES	Civil Construction
	1. 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.	Permit
	 Existing asphalt drive aisle will be used as construction entrance . Contractor to ensure construction entrance be maintained free of sediments and debris. DOE BMP C106 Wheel Wash to be used as necessary. 	STIN M. JOANS
	 Install straw wattles in accordance with DOE BMP 235 around excavation limits. 	
	 Maintain temp. berm or ditch to gravity flow stormwater to collection area. 	41829 ⁴¹⁸ CISTERED N ^G ¹⁰ SSIONAL ENGINE
	 Turbidity monitoring point. Additional treatment may be needed to meet sotrmwater discharge limits. Treatment options include: 	04-30-25
	- Chemical Treatment per DOE BMP C250 - Filtration per DOE BMP C251	REV DATE DESCRIPTION
	Include details for each BMP listed for use *	
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* MIRAFI 140-N OR EQUIVALENT

STORM DRAIN **BARRIERS NOTES** PROVED BY REVISED BY DLLEEN HARRIS XXXX ECKED BY DATE APPROVED DATE REVISED SCALE 09/01/1992 06/01/2003 NTS 02.03.06

OVERFLOW BYPASS (TYP.)

. 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.

2. 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 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 PERMITEE.

3. 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 PERMITEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BI 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.

4. 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

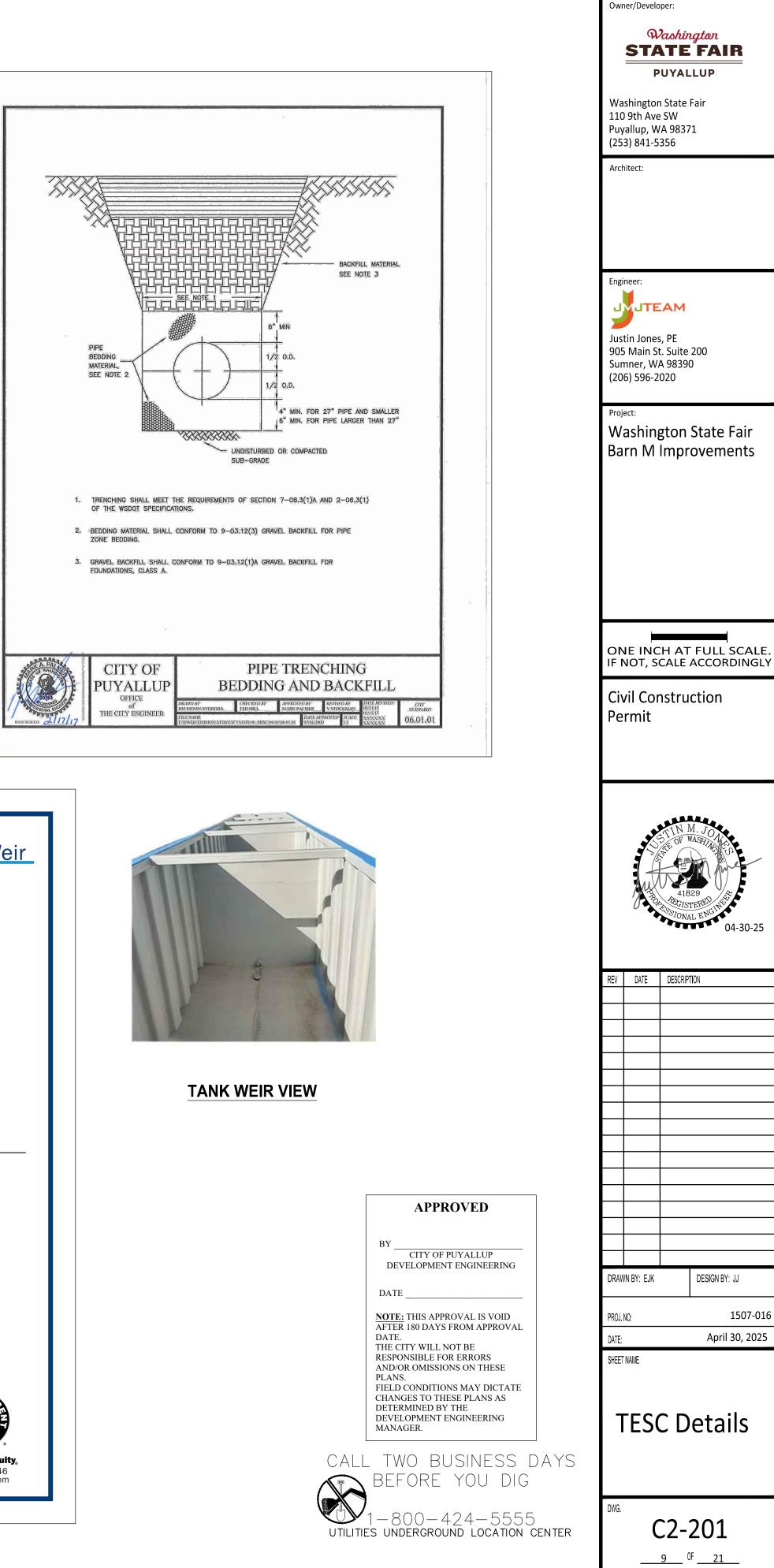
5. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY TH

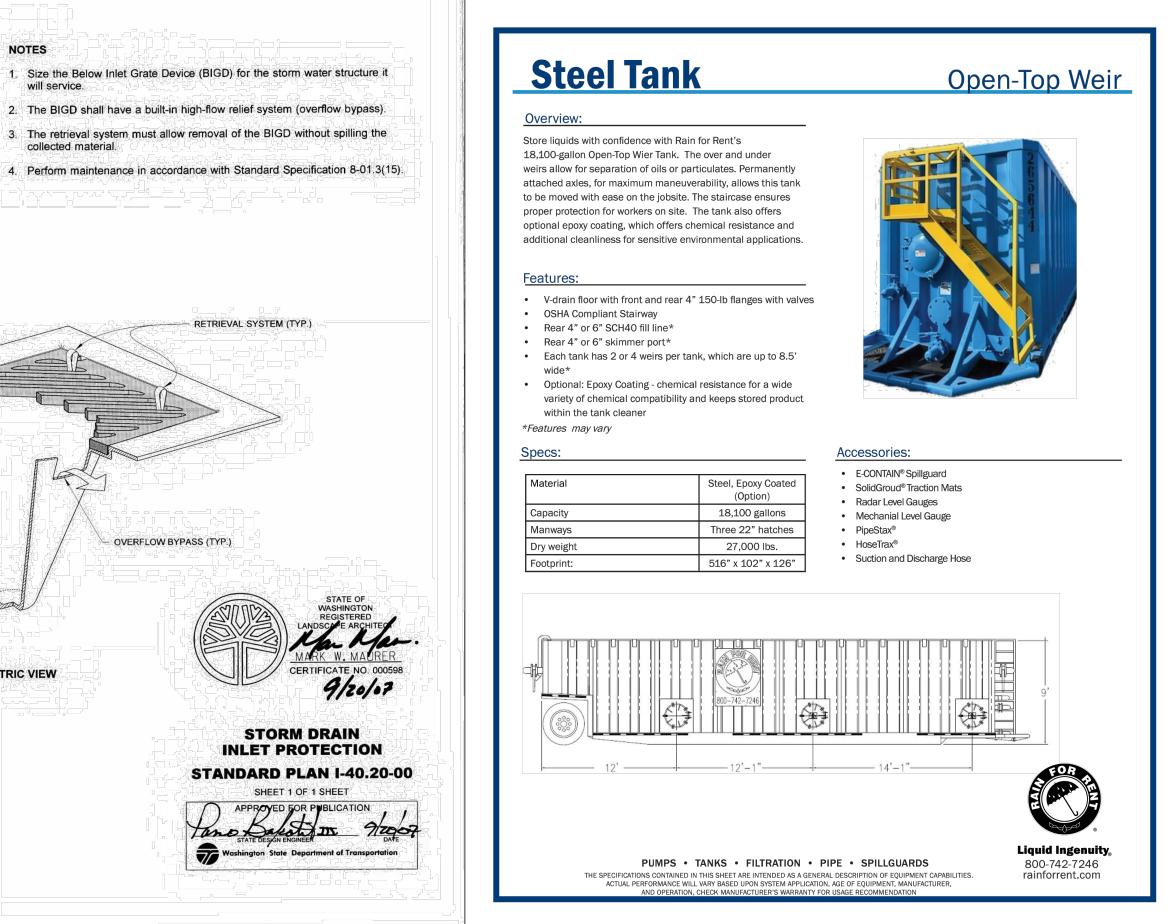
6. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.

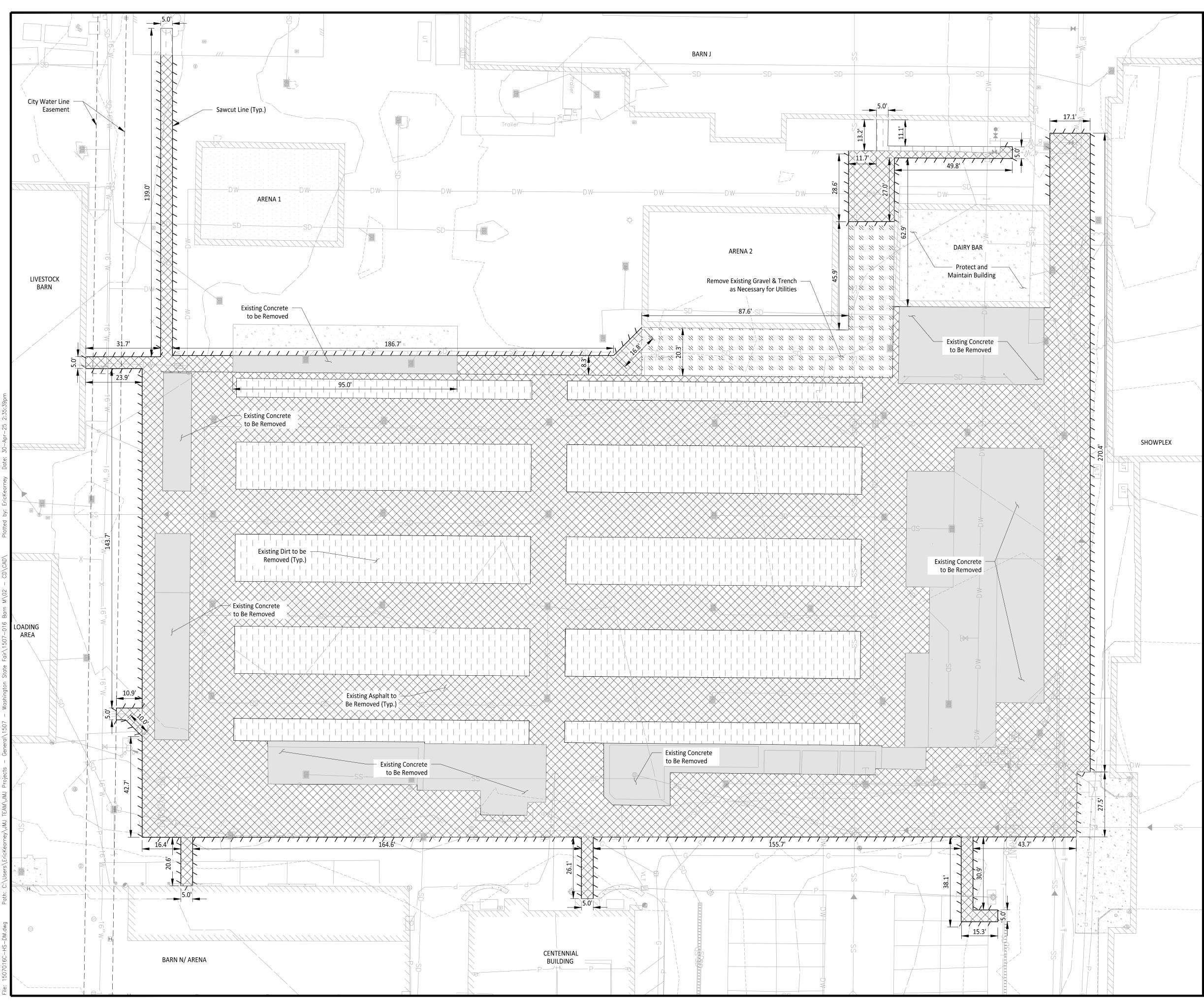
7. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.











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Existing Concrete to be Removed
Existing Asphalt to be Removed
Existing Dirt to be Removed
Existing Gravel to be Removed
Sawcut Line
Existing Storm Line
Existing Water Line
Existing Sewer Line
Existing Gas Line
Existing Power Line
Existing Building Line
Existing Catch Basin
Existing Sanitary Sewer Manhole

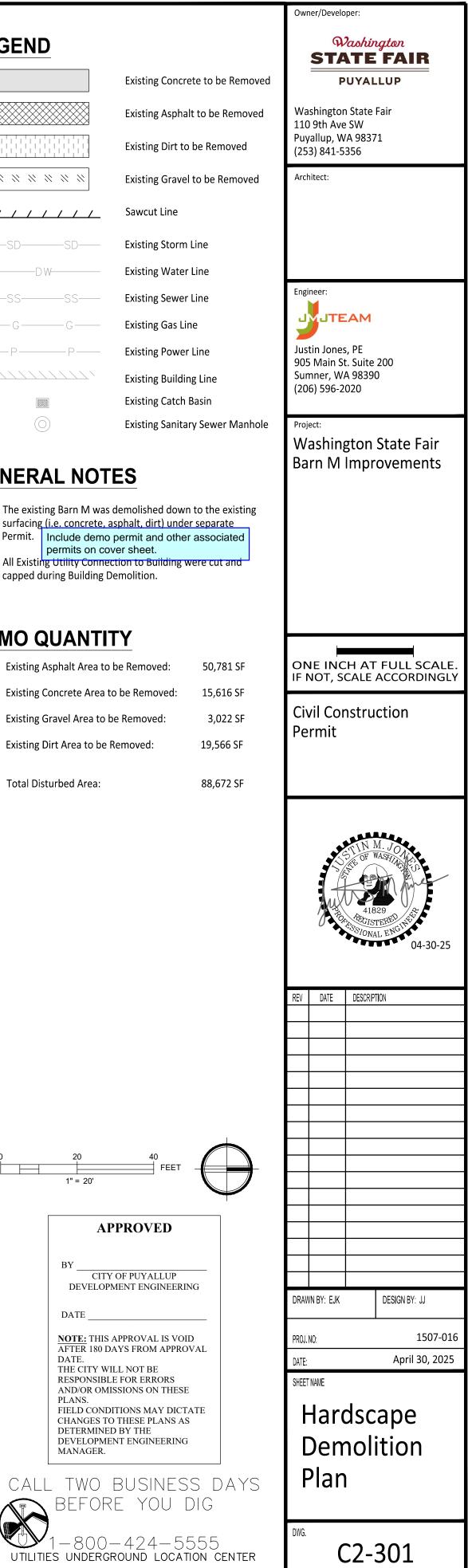
GENERAL NOTES

- 1. The existing Barn M was demolished down to the existing surfacing (i.e. concrete, asphalt, dirt) under separate Permit. Include demo permit and other associated permits on cover sheet.
- 2. All Existing Utility Connection to Building were cut and capped during Building Demolition.

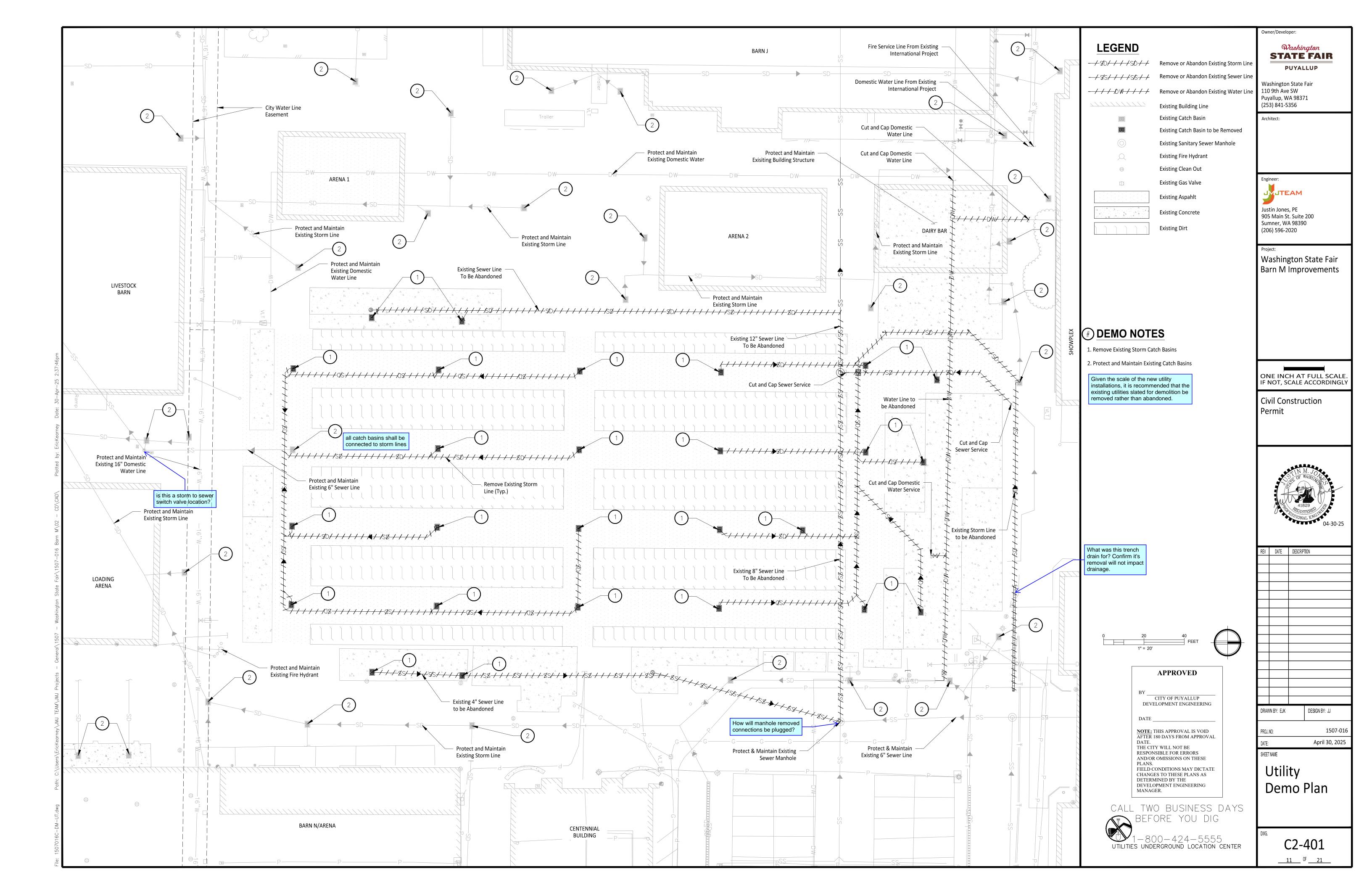
DEMO QUANTITY

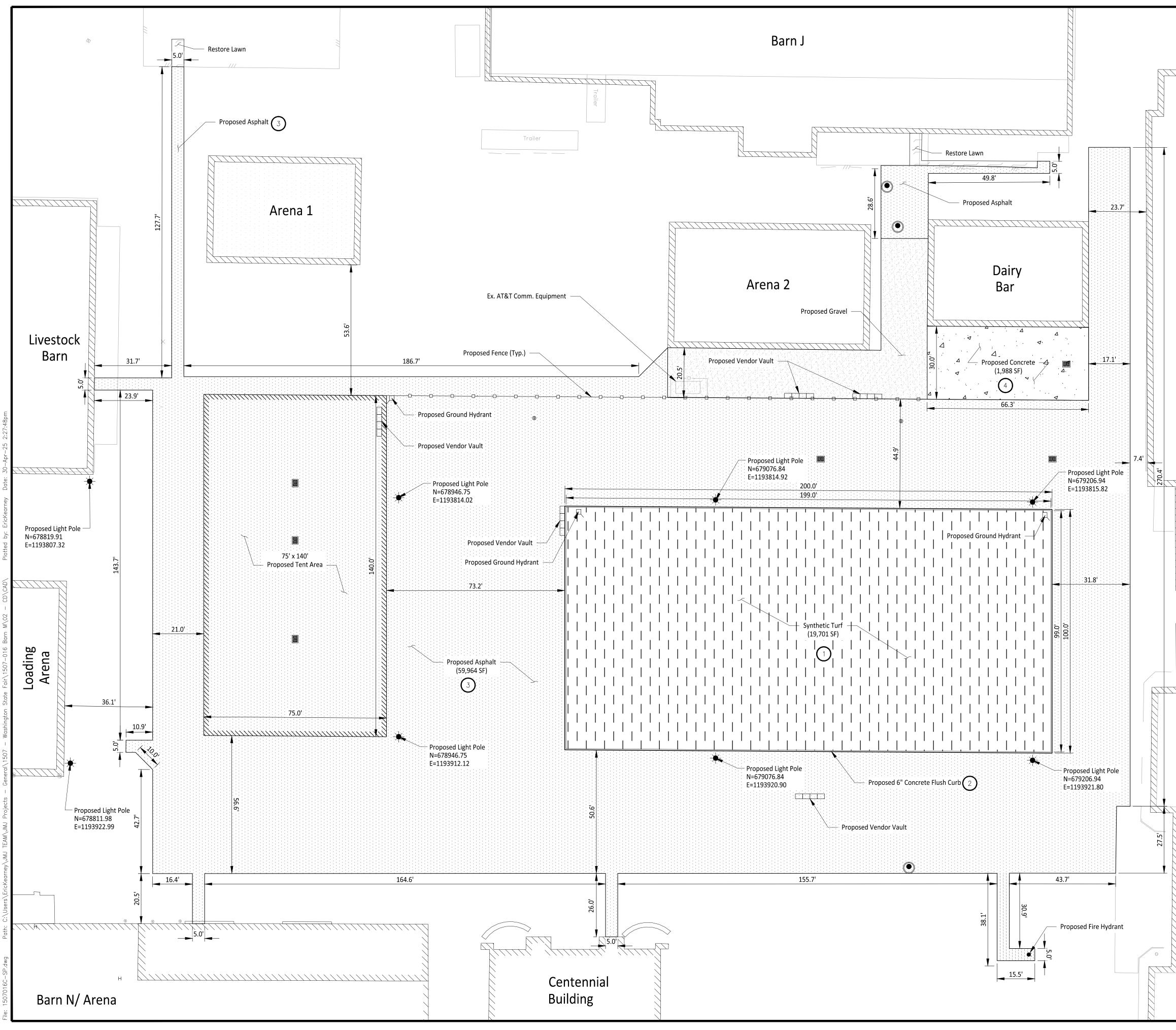
1.	Existing Asphalt Area to be Removed:	50,781 SF
2.	Existing Concrete Area to be Removed:	15,616 SF
3.	Existing Gravel Area to be Removed:	3,022 SF
3.	Existing Dirt Area to be Removed:	19,566 SF
F	Total Disturbed Areas	99 (72)
5.	Total Disturbed Area:	88,672 SF

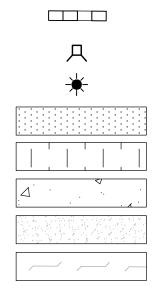
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BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING	
DATE	
AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE	
PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.	
CALL TWO BUSINESS D BEFORE YOU DIG	AYS
1-800-424-5555	



<u>10</u> ^{OF} <u>21</u>







Proposed Vendor Vault Proposed Ground Hydrant Proposed Light Pole Proposed Asphalt Proposed Synthetic Turf Proposed Concrete Proposed Gravel Proposed Lawn Restoration Owner/Developer:

Washington

STATE FAIR

PUYALLUP

Washington State Fair

110 9th Ave SW

Architect:

Engineer:

Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390

(206) 596-2020

Washington State Fair

Barn M Improvements

Project:

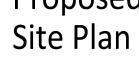
Puyallup, WA 98371 (253) 841-5356

(#) CONSTRUCTION NOTES

- 1. Install Synthetic Turf per Section D on Sheet C3-301.
- 2. Install Concrete Flush Curb per Detail C on Sheet C3-301.
- 3. Install Asphalt Pavement per Section A on Sheet C3-301.
- 4. Install Concrete Pavement per Section B on Sheet C3-301.

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PROJ.I	NO:		1507-01
DATE:			April 30, 2025

SHEET NAME Proposed



C3-101

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APPROVED

BY ______ CITY OF PUYALLUP DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

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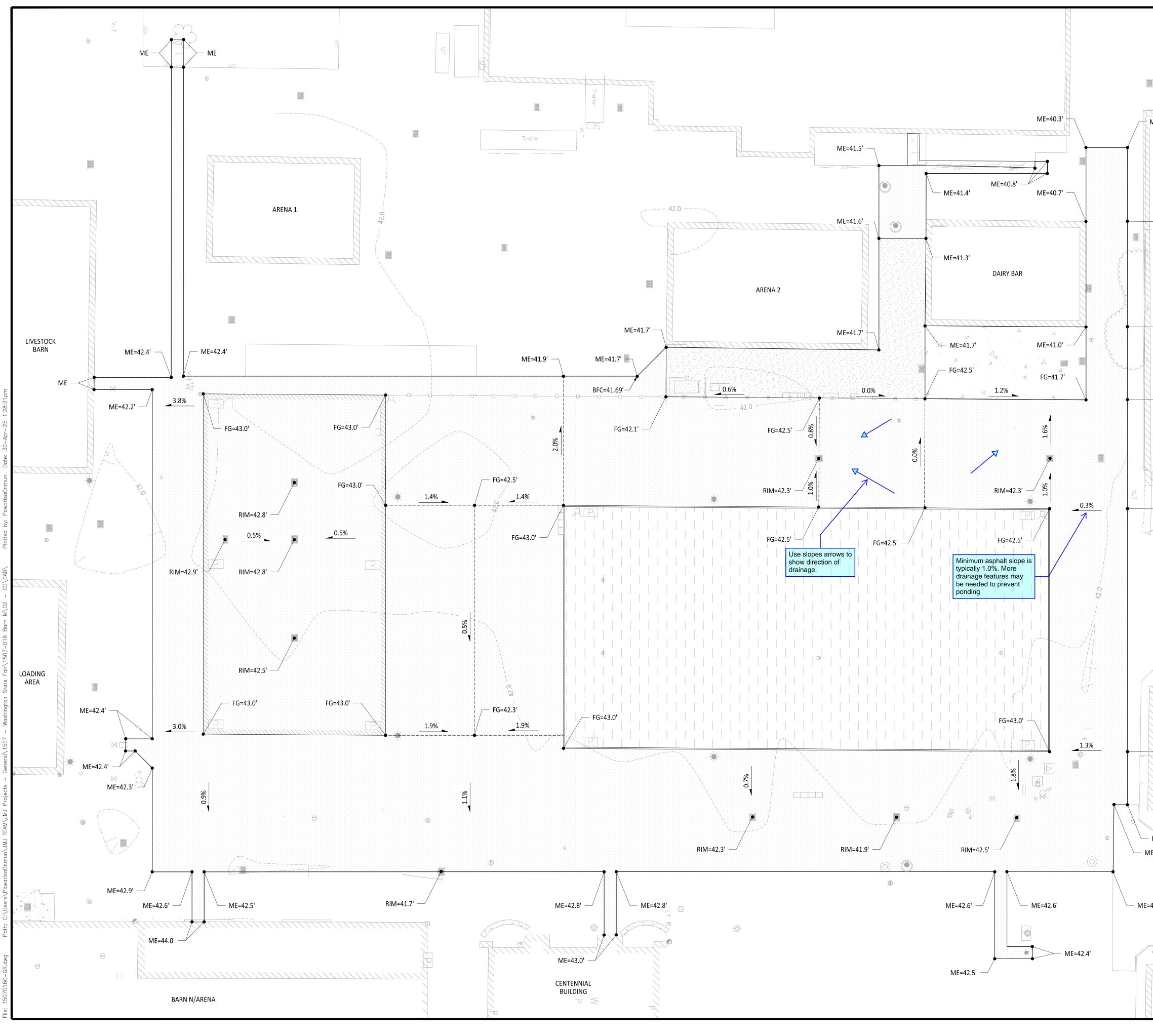
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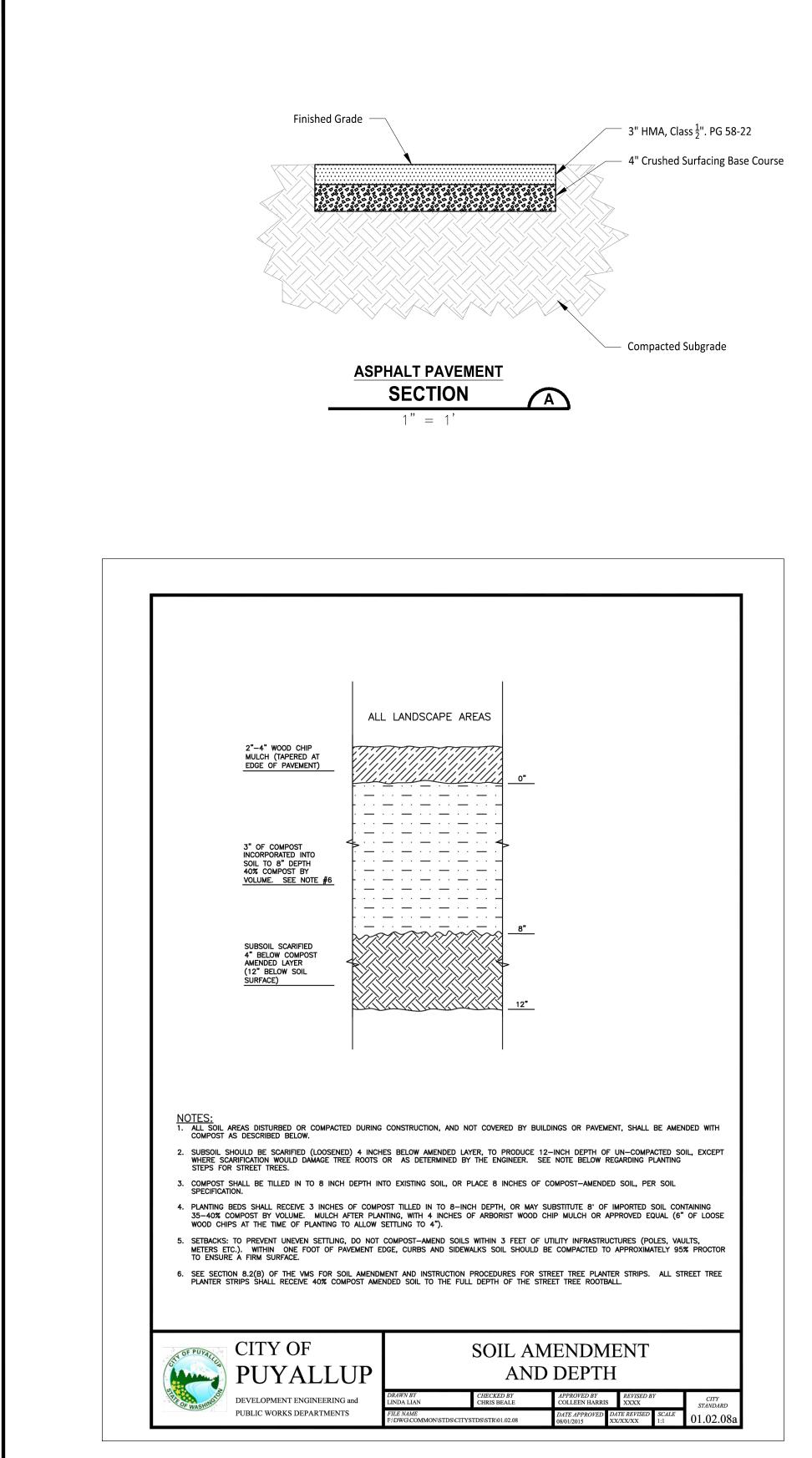
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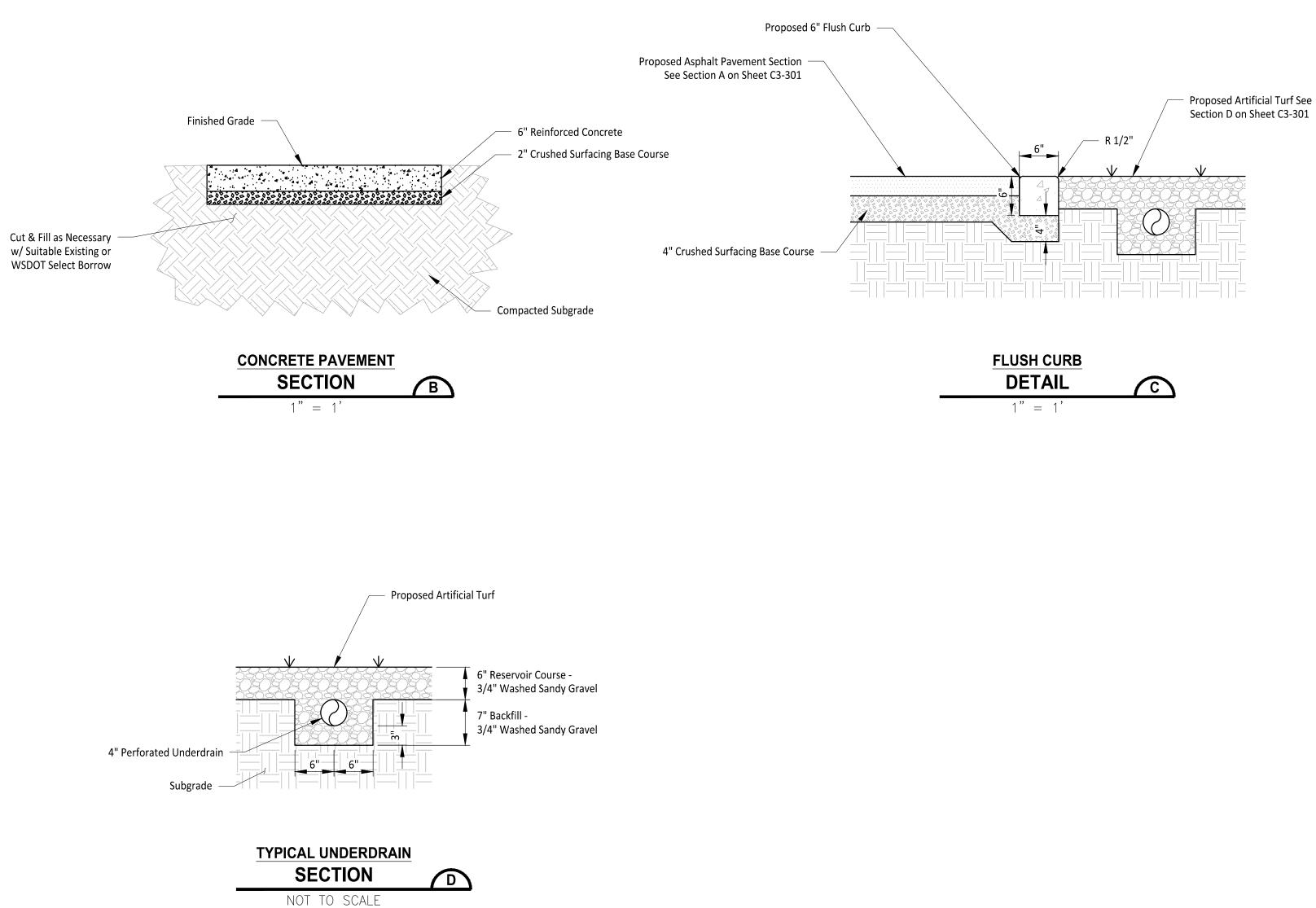
PLANS.

MANAGER.



ME=40.8'		Owner/Developer: STATE FAIR PUYALLUP Washington State Fair 110 9th Ave SW Puyallup, WA 98371 (253) 841-5356 Architect:
ME=40.7'		Engineer: Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020 Project: Washington State Fair
ME=41.1' ME=41.4' SHOWPLEX		Barn M Improvements
ME=42.6'		Civil Construction Permit
ME=43.4'	$0 \xrightarrow{20} \xrightarrow{40} FEET \qquad $	REV DATE DESCRIPTION Image: I
ME=43.2' 1E=42.7' =43.6'	APPROVED BY	DRAWN BY: EJK DESIGN BY: JJ PROJ. NO: 1507-016 DATE: April 30, 2025 SHEET NAME Grading Plan
	BEFORE YOU DIG 1-800-424-5555 UTILITIES UNDERGROUND LOCATION CENTER	DWG. C3-201 <u>13</u> OF <u>21</u>



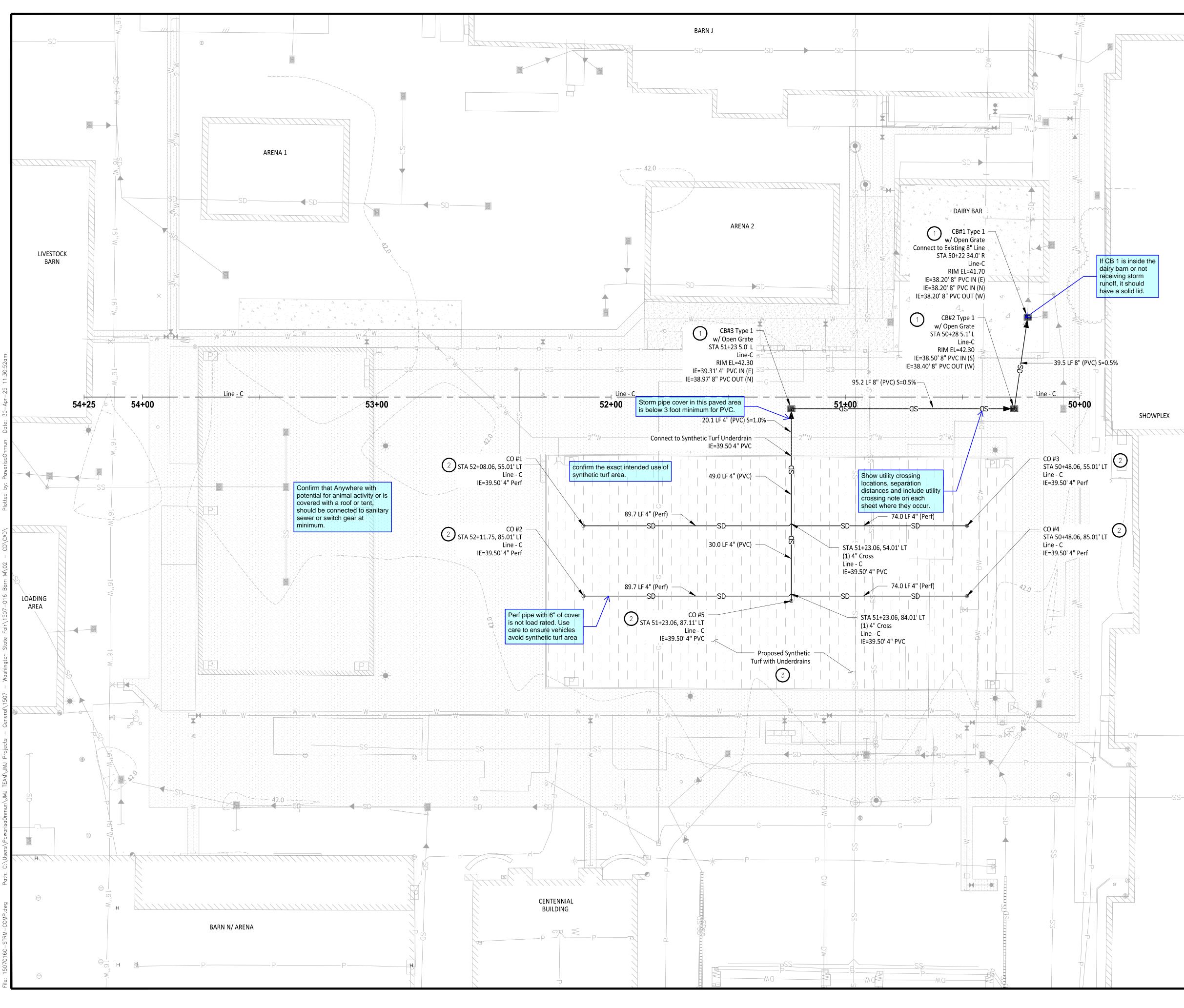


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	BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING	
	DATE	
	NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.	
CALL	TWO BUSINESS D BEFORE YOU DIG	AYS
	1-800-424-5555	

UTILITIES UNDERGROUND LOCATION CENTER



Proposed Storm Cleanout

- Proposed Storm Catch Basin
- Proposed Storm Line

(#) CONSTRUCTION NOTES

- 1. Install Catch Basin per City of Puyallup Standard Detail 02.01.02 on Sheet C4-201.
- 2. Install Clean out per City of Puyallup Standard Detail 02.01.09 on Sheet C4-201.
- 3. Install Synthetic Turf underdrain per Section C on Sheet C3-301.

GENERAL NOTES

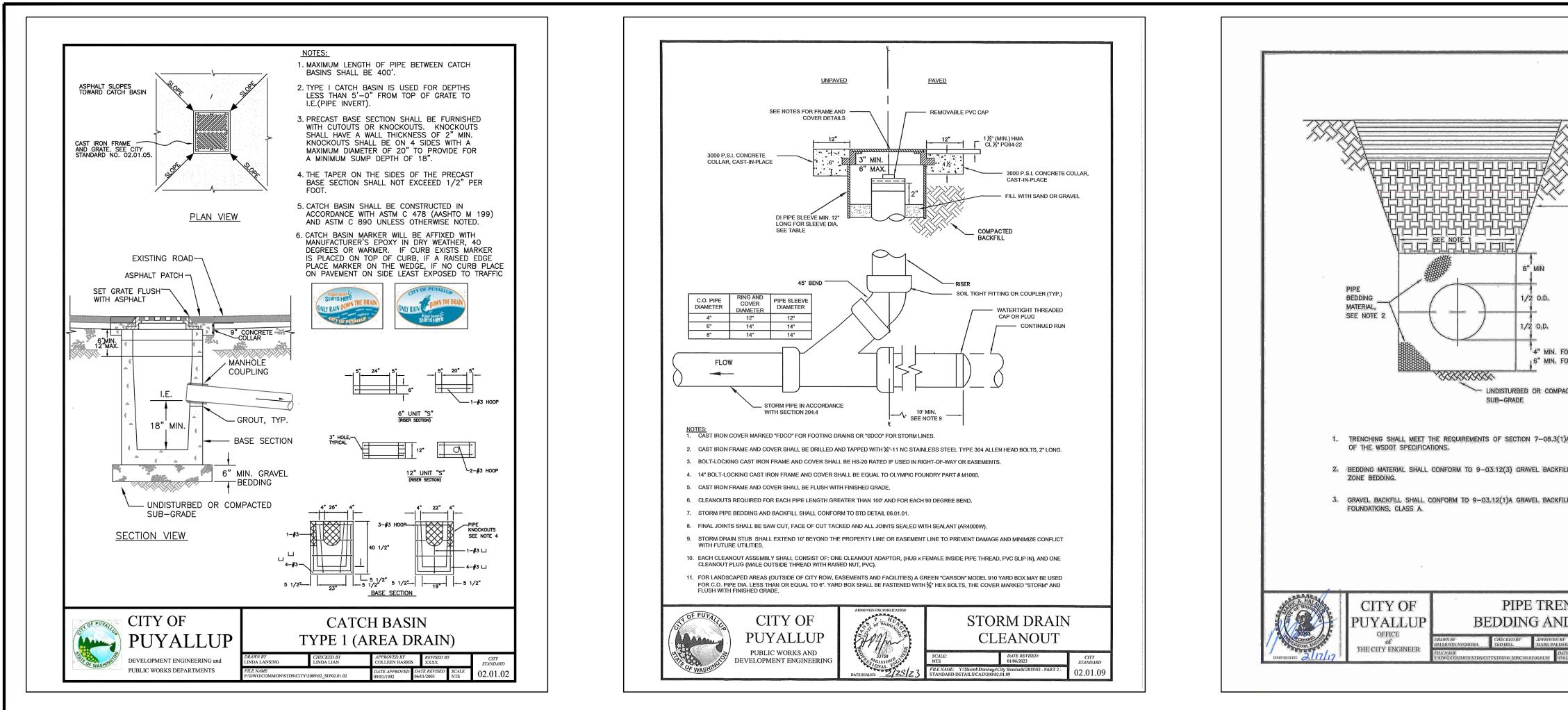
- 1. Storm Pipes shall be SDR 35 PVC.
- 2. Storm Line shall maintain 3-foot minimum cover from Finished Grade.
- 3. Contractor to pothole and verify elevations and pipe sizes at existing crossings and connection points and notify Engineer prior to construction.

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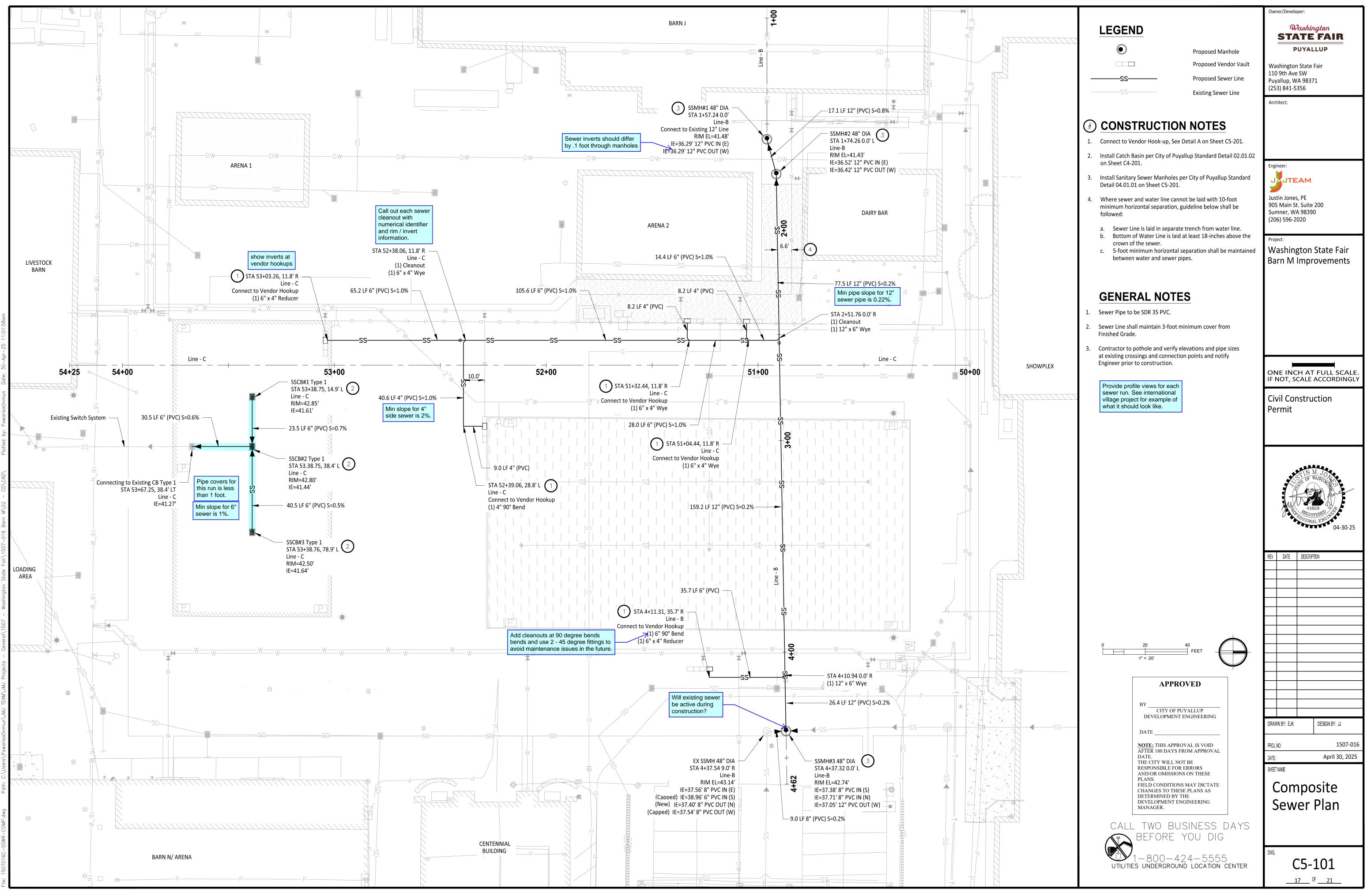
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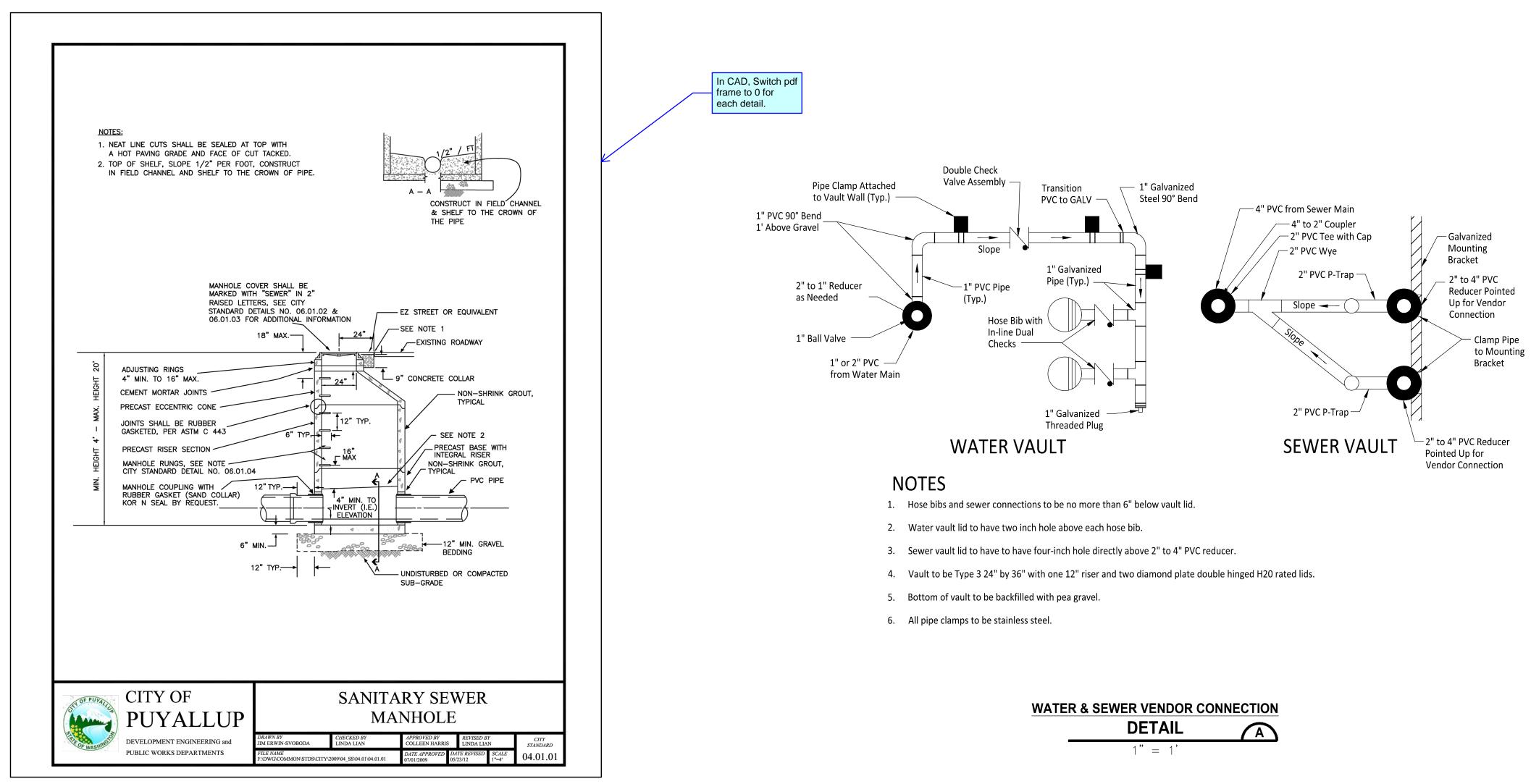


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		Owner/Developer: Constant of Constant Constant
BACKFILL MATERIAL SEE NOTE 3 6" MIN 1/2 O.D. 1/2 O.D. 4" MIN. FOR 27" PIPE AND SMALLER 16" MIN. FOR PIPE LARGER THAN 27"		Engineer: Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020
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	CALL TWO BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555 UTILITIES UNDERGROUND LOCATION CENTER	DWG. C4-201

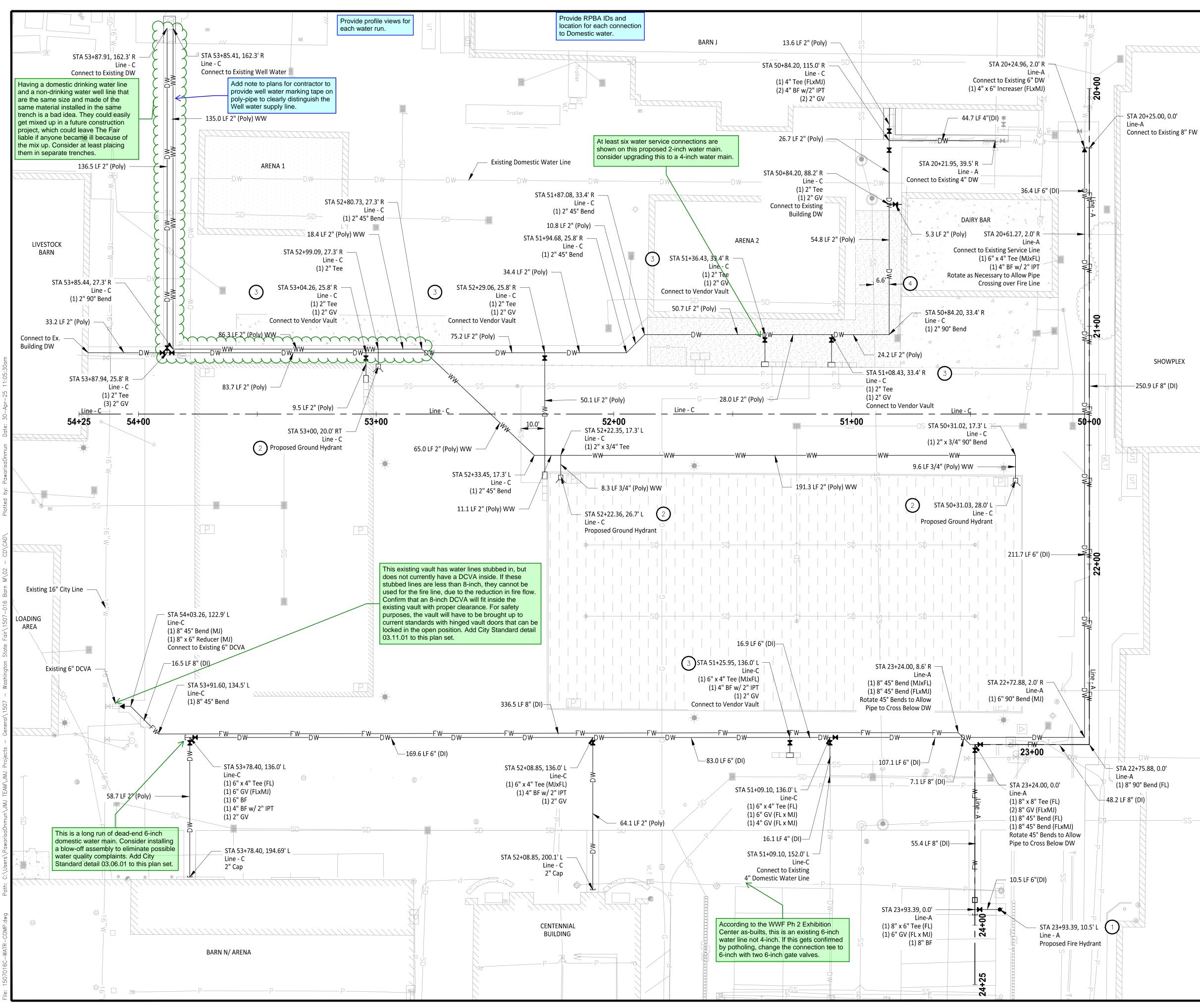




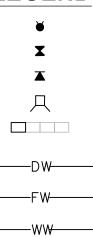
add sewer cleanout detail 04.03.05

	Owner/Developer:
	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:
	Washington State Fair Barn M Improvements
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BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING
DATE
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Proposed Fire Hydrant Proposed Water Valve **Proposed Water Increaser** Proposed Ground Hydrant Proposed Vendor Vaults Domestic Water Line

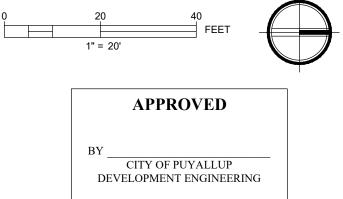
Fire Service Water Line —WW———— Well Water Line

(#) CONSTRUCTION NOTES

- 1. Install Fire Hydrant, per City of Puyallup Standard Detail 3.05.01 on Sheet C6-201.
- 2. Install Ground Hydrant, per Detail A on Sheet C6-201.
- Connect to Vendor Vault, per Detail B on Sheet C6-202.
- 4. Where sewer and water line cannot be laid with 10-foot minimum horizontal separation, guideline below shall be followed:
- a. Sewer Line is laid in separate trench from water line. b. Bottom of Water Line is laid at least 18-inches above the crown of the sewer.
- c. 5-foot minimum horizontal separation shall be maintained between water and sewer pipes.

GENERAL NOTES

- 1. All ductile iron pipes shall be Class 52.
- All POLY pipes shall be High Density Poly (iron pipe size) meeting ASTM D-2239-SIDR 7, blue in color, 200 PSI minimum.
- 3. All POLY pipes shall maintain 2-foot minimum cover from Finished Grade.
- 4. All Ductile Iron pipes shall maintain 3-foot minimum cover from Finished Grade.
- Contractor to pothole and verify elevations and pipe sizes at existing crossings and connection points and notify Engineer prior to construction.



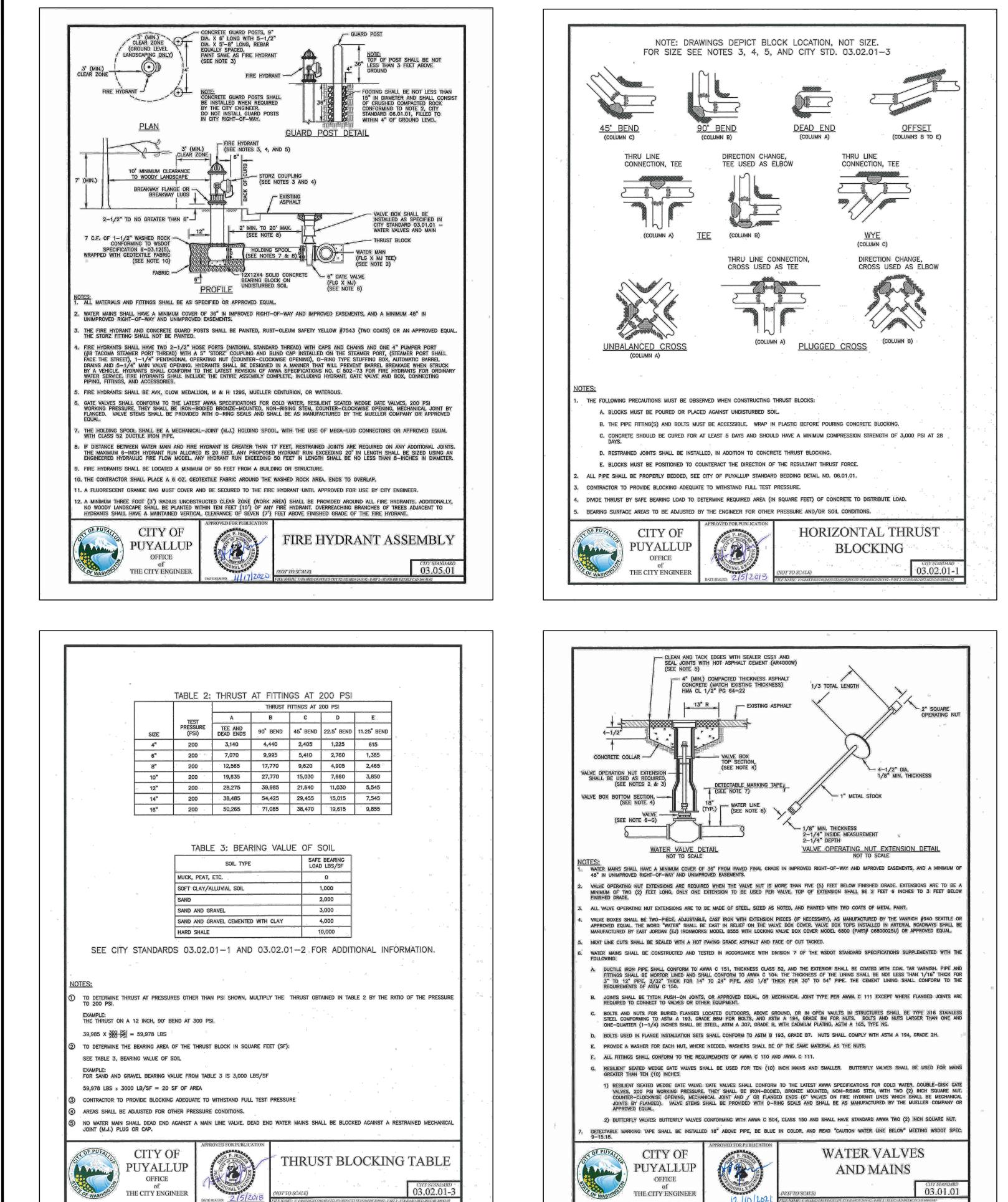
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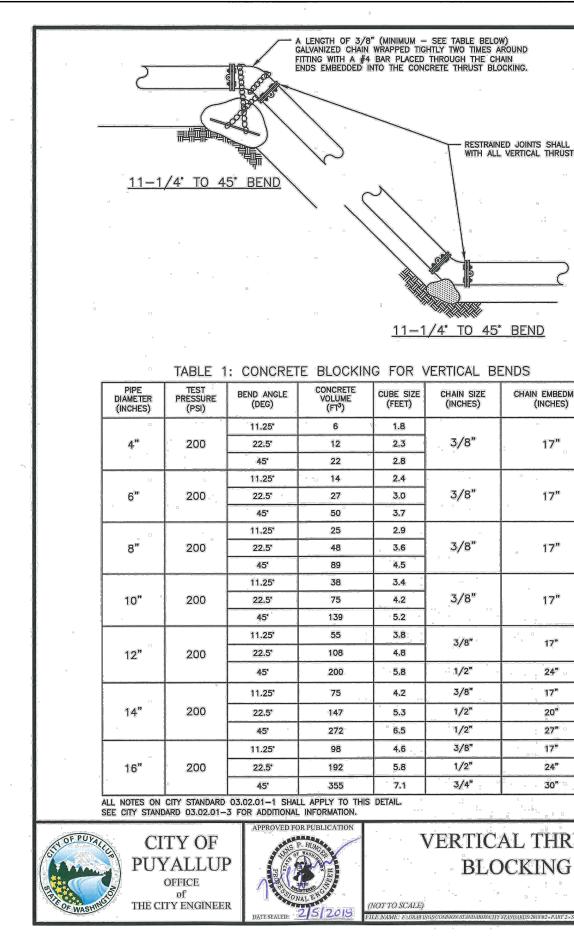


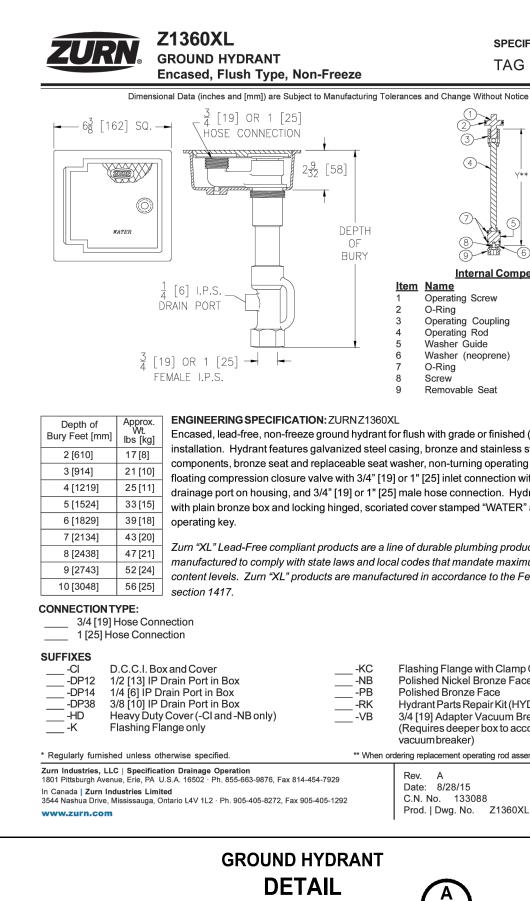
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PUYALLUP
Washington State Fair 110 9th Ave SW Puyallup, WA 98371 (253) 841-5356
Architect:
Engineer:
J
Justin Jones, PE 905 Main St. Suite 200
Sumner, WA 98390 (206) 596-2020
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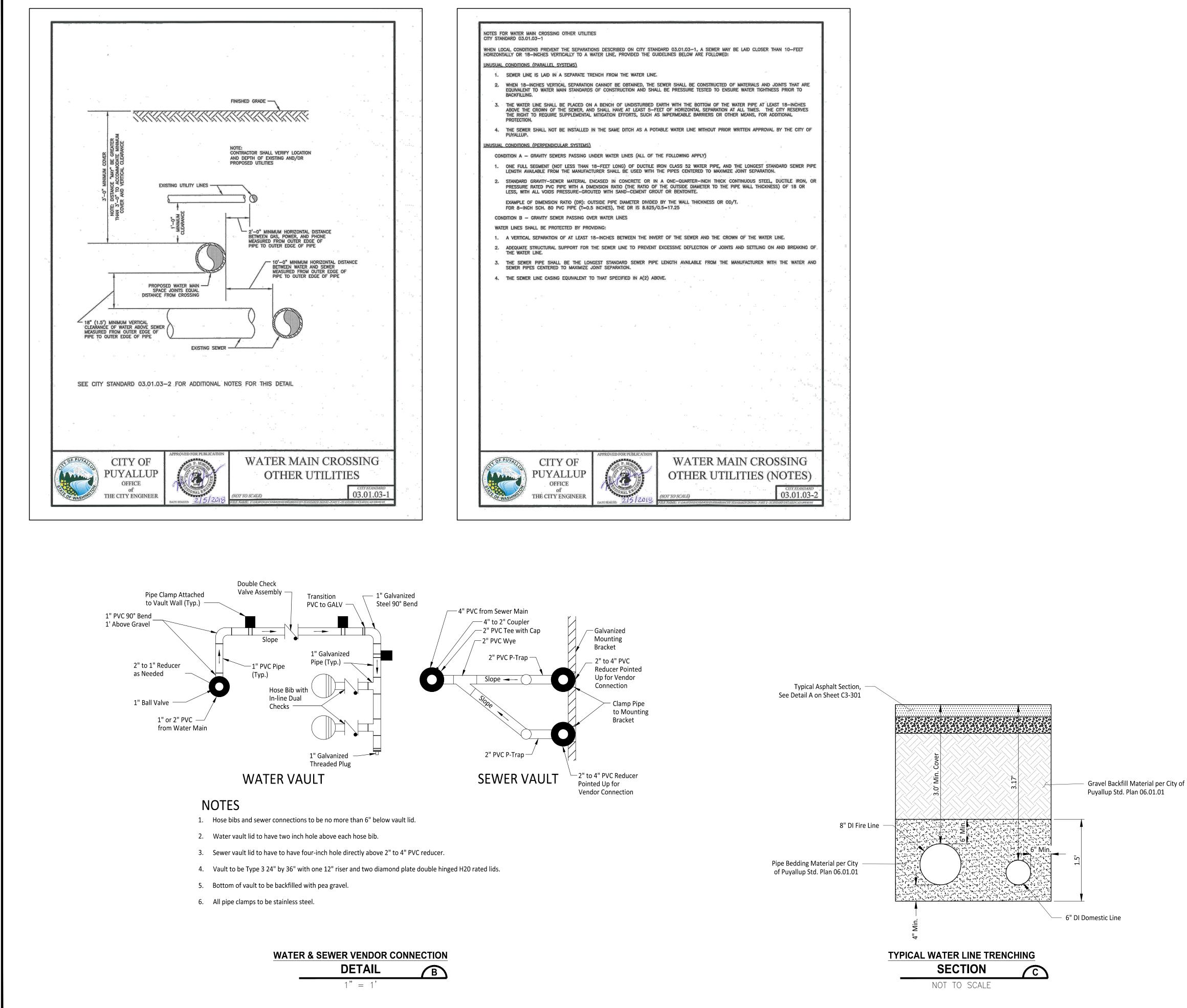






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		Washington State Fair
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		Engineer:
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		Justin Jones, PE
		905 Main St. Suite 200 Sumner, WA 98390
		(206) 596-2020
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HALL NOT BE INSTALLED I	n the same ditch as a pota	ABLE WATER LINE WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF
PERPENDICULAR SYSTEMS)	•	
AVITY SEWERS PASSING U	NDER WATER LINES (ALL OF TH	E FOLLOWING APPLY)
		RON CLASS 52 WATER PIPE, AND THE LONGEST STANDARD SEWER PIPE HE PIPES CENTERED TO MAXIMIZE JOINT SEPARATION.
TED PVC PIPE WITH A DIM		A ONE-QUARTER-INCH THICK CONTINUOUS STEEL, DUCTILE IRON, OR THE OUTSIDE DIAMETER TO THE PIPE WALL THICKNESS) OF 18 OR JT OR BENTONITE.
	JTSIDE PIPE DIAMETER DIVIDED 5 INCHES), THE DR IS 8.625/0.	BY THE WALL THICKNESS OR OD/T. .5=17.25
VAVITY SEWER PASSING OV	ER WATER LINES	а С (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
L BE PROTECTED BY PROV	/IDING:	a
EPARATION OF AT LEAST 1	8-INCHES BETWEEN THE INVER	RT OF THE SEWER AND THE CROWN OF THE WATER LINE.
RUCTURAL SUPPORT FOR 1	THE SEWER LINE TO PREVENT E	EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING OF
PIPE SHALL BE THE LON CENTERED TO MAXIMIZE J		LENGTH AVAILABLE FROM THE MANUFACTURER WITH THE WATER AND
INE CASING EQUIVALENT TO	0 THAT SPECIFIED IN A(2) ABO	ME.
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OFFICE of HE CITY ENGINEER	STONAL EN	(NOT TO SCALE)
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		Pashington TE FAIR
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Sur	nner, W	t. Suite 200 A 98390
(20	6) 596-2	020
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IF I	NOT, S	CALE ACCORDINGLY
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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

APPROVED

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

BY CITY OF PUYALLUP

DATE

DATE.

PLANS.