QUARTER 11 OF SECTION 33, TOWNSHIP 20, RANGE 4

WASHINGTON STATE FAIR
GOLD GATE REDEVELOPMENT

CIVIL CONSTRUCTION PERMIT

RELATED PERMITS

BUILDING: PRCNC20231607
SEPA: PLSSP20230129

APPLICANT

WASHINGTON STATE FAIR
110 9TH AVE SW
PUYALLUP, WA 98371
(253) 841-5356
CONTACT: MARTY MATTES, CHIEF OPERATIONS OFFICER

ARCHITECT

JEFF BROWN ARCHITECTURE
12181 C STREET SOUTH
TACOMA, WA 98444
(253) 606-8324
CONTACT: JEFF BROWN, AIA

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:	110 9TH AVE SW PUYALLUP, WA 98371
TAX PARCEL NUMBER(S):	0420331121
ZONING:	FAIR
TOTAL PROJECT AREA:	0.79 ACRES

CONTROL INFORMATION:

HORIZONTAL DATUM & 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 (PMX #101) POINT DESIGNATION GP27512-18AZ (PMX #101) NORTHING: 678467.150 EASTING: 1194300.738
VERTICAL DATUM:	VERTICAL DATUM IS NGVD29 BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATION GP-27512-18AZ (PMX #101) POINT DESIGNATION GP-27512-18AZ (PMX #101) ELEVATION: 77.073
SURVEY DATE:	MARCH, 2023

LEGAL DESCRIPTION

NON-ABBREVIATED: Section 33 Township 20 Range 04 Quarter 11 : NE OF NE & N 1/2 OF SE OF NE LY ELY OF 5TH ST & W OF STATE HWY LESS RDS TOG/W 1/2 5TH ST SW ABUTT VAC BY ORD 2865 EASE OF RECORD PER ETN 527237 ALSO EXC POR CYD TO CY OF PUYALLUP FOR ADD'L R/W PER ETN 45

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

VICINITY MAP

110 9th Ave SW, Puyallup, WA 98371

Vicinity Map
Scale: 1" = 1/4 Mile

Puyallup Fair Map
Scale: 1" = 400'

SHEET INDEX

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5	C1-102	Building Control Plan
6	C1-201	Boundary & Topographic Survey
7	C1-202	Existing Site Plan
8	C2-101	Temporary Erosion & Sediment Control Plan
9	C2-201	Temporary Erosion & Sediment Control Details
10	C2-301	Hardscape Demolition Plan
11	C2-302	Utility Demolition Plan
12	C3-101	Composite Site Plan
13	C3-201	Fencing Plan
14	C3-301	Hardscape Details
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21	C4-202	Stormwater Details
22	C5-101	Sanitary Sewer Plan
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27	C7-101	Joint Utility Trench Plan

PROJECT CUT AND FILL VOLUMES

	Volume (CY)
Cut	2,113
Fill	132

PROJECT DISTURBED AREA

Description[a]	Onsite	Offsite	Total
Existing Conditions			
Total Project Area[b] (ft²)	34,840-0.80 ac	0-0 ac	34,840-0.80 ac
Existing hard surface (ft²)	34,840-0.80 ac	0-0 ac	34,840-0.80 ac
Existing vegetation area (ft²)	0-0 ac	0-0 ac	0-0 ac
Proposed Conditions			
Total Project Area[b] (ft²)	34,840-0.80 ac	0-0 ac	34,840-0.80 ac
Amount of new hard surface (ft²)	0-0 ac	0-0 ac	0-0 ac
Amount of new pollution generating hard surface (PGHS)[c] (ft²)	0-0 ac	0-0 ac	0-0 ac
Amount of replaced hard surface (ft²)	34,559-0.79 ac	0-0 ac	34,559-0.79 ac
Amount of replaced PGHS[d] (ft²)	0-0 ac	0-0 ac	0-0 ac
Amount of new plus replaced hard surface (ft²)	34,559-0.79 ac	0-0 ac	34,559-0.79 ac
Amount of new + replaced PGHS (ft²)	0-0 ac	0-0 ac	0-0 ac
Amount of existing hard surfaces converted to vegetation (ft²)	0-0 ac	0-0 ac	0-0 ac
Amount of Land Disturbed (ft²)	34,559-0.79 ac	0-0 ac	34,559-0.79 ac
Vegetation to Lawn/Landscaped (acres)	0-0 sf	0-0 sf	0-0 sf
Native Vegetation to Pasture (acres)	0-0 sf	0-0 sf	0-0 sf
Existing hard surface to remain unaltered (ft²)	278-0.01 ac	0-0 ac	278-0.01 ac
Existing vegetation area to remain unaltered (ft²)	0-0 ac	0-0 ac	0-0 ac

a. All terms are defined in the 2019 Ecology Manual glossary.
b. The total project area in the existing condition should typically match the total project area in the proposed condition.
c. The "amount of new PGHS" should be part of or all of "amount of new hard surfaces"
d. The "amount of replaced PGHS" should be part of or all of the "amount of replaced hard surfaces".

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 04/29/2024

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

Owner/Developer:
Washington State Fair
110 9th Ave SW
Puyallup, WA 98371
(253) 841-5356

Architect:
Jeff Brown Architecture
12181 C Street South
Tacoma, WA 98444
(253) 606-8324
Contact: Jeff Brown

Engineer:
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
WSF Gold Gate Redevelopment

Civil Construction Permit

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

JUSTIN M. JONES
STATE OF WASHINGTON
41629
REGISTERED PROFESSIONAL ENGINEER
04/18/2024

REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY: DM | DESIGN BY: JJ
PROJ. NO: 1507-012
DATE: April 18, 2024

SHEET NAME
Cover Sheet

DWG.
C1-001
01 OF 27

File: 1507012C- CV.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 18-Apr-24 9:59:25am

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.

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.

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 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.

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 30-inch pipe shall meet or exceed ASTM F2736 and AASHTO M330, Type S, or Type D. 36-inch through 60-inch pipe shall meet or exceed ASTM F2881 and AASHTO M330, Type S, or Type D. Testing shall be per ASTM F1417. Minimum cover over Polypropylene pipe shall be 3-feet.

15. Trenching, bedding, and backfill for pipe shall conform to City Standard Detail No. 06.01.01.

16. Storm pipe shall be a minimum of 10 feet away from building foundations and/or roof lines.

17. All storm drain mains shall be tested and inspected for acceptance as outlined in Section 406 of the City of Puyallup Sanitary Sewer System Standards.

18. All temporary sedimentation and erosion control measures, and protective measures for critical areas and significant trees shall be installed prior to initiating any construction activities.

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.

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 04/29/2024

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
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Washington State Fair
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Architect:
Jeff Brown Architecture
12181 C Street South
Tacoma, WA 98444
(253) 606-8324
Contact: Jeff Brown

Engineer:
JJUTEAM
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
WSF Gold Gate Redevelopment

Civil Construction Permit

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

JUSTIN M. JONES — STATE OF WASHINGTON — 41829 — REGISTERED PROFESSIONAL ENGINEER
04/18/2024

REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY: DM	DESIGN BY: JJ
PROJ.NO:	1507-012
DATE:	April 18, 2024

SHEET NAME
General Notes

DWG.
C1-002
02 OF 27

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.

2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.

3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards"), or as directed by Fruitland Mutual Water Company (FMWC), Valley Water (VW), or Tacoma City Water (TCW) is the purveyor.

4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.

5. Any revisions made to these plans must be reviewed and approved by the developer's engineer, the Engineering Services Staff, and the FMWC, VW or TCW when served by that purveyor, prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.

6. The contractor shall have all utilities verified on the ground prior to any construction. Call (811) at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.

7. Any structure and/or obstruction which requires removal or relocation relating to this project shall be done so at the developer's expense.

8. Bacteriological (Coliform and Iron Bacteria) test samples will be taken by the City (or FMWC, VW or TCW when served by that purveyor) and paid for by the contractor, except for Capital Improvement Projects (CIP) which shall be paid for by the City.

9. Water mains shall have a minimum cover of 36 inches from paved final grade in improved right-of-way and improved easements, and a minimum of 48 inches in unimproved right-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 Diameter (Inches)	Pipe Volume per 18 feet (gal)	5-gram tablets per pipe section	Hypochlorite Granules		Maximum Fill Rate (gpm)
			Ounces per 500 feet	Teaspoons per 18 feet	
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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BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 04/29/2024

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
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UTILITIES UNDERGROUND LOCATION CENTER

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Puyallup, WA 98371
(253) 841-5356

Architect:
Jeff Brown Architecture
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Tacoma, WA 98444
(253) 606-8324
Contact: Jeff Brown

Engineer:
JJWJTEAM
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
WSF Gold Gate Redevelopment

Civil Construction Permit

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning | Engineering | Public Works | Fire | Traffic

JUSTIN M. JONES STATE OF WASHINGTON 41829 REGISTERED PROFESSIONAL ENGINEER
04/18/2024

REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY: DM | DESIGN BY: JJ
PROJ. NO: 1507-012
DATE: April 18, 2024
SHEET NAME: General Notes
DWG. C1-003
03 OF 27

File: 1507012C- CV.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 18-Apr-24 10:00:13am

0 150 300 FEET
1" = 150'

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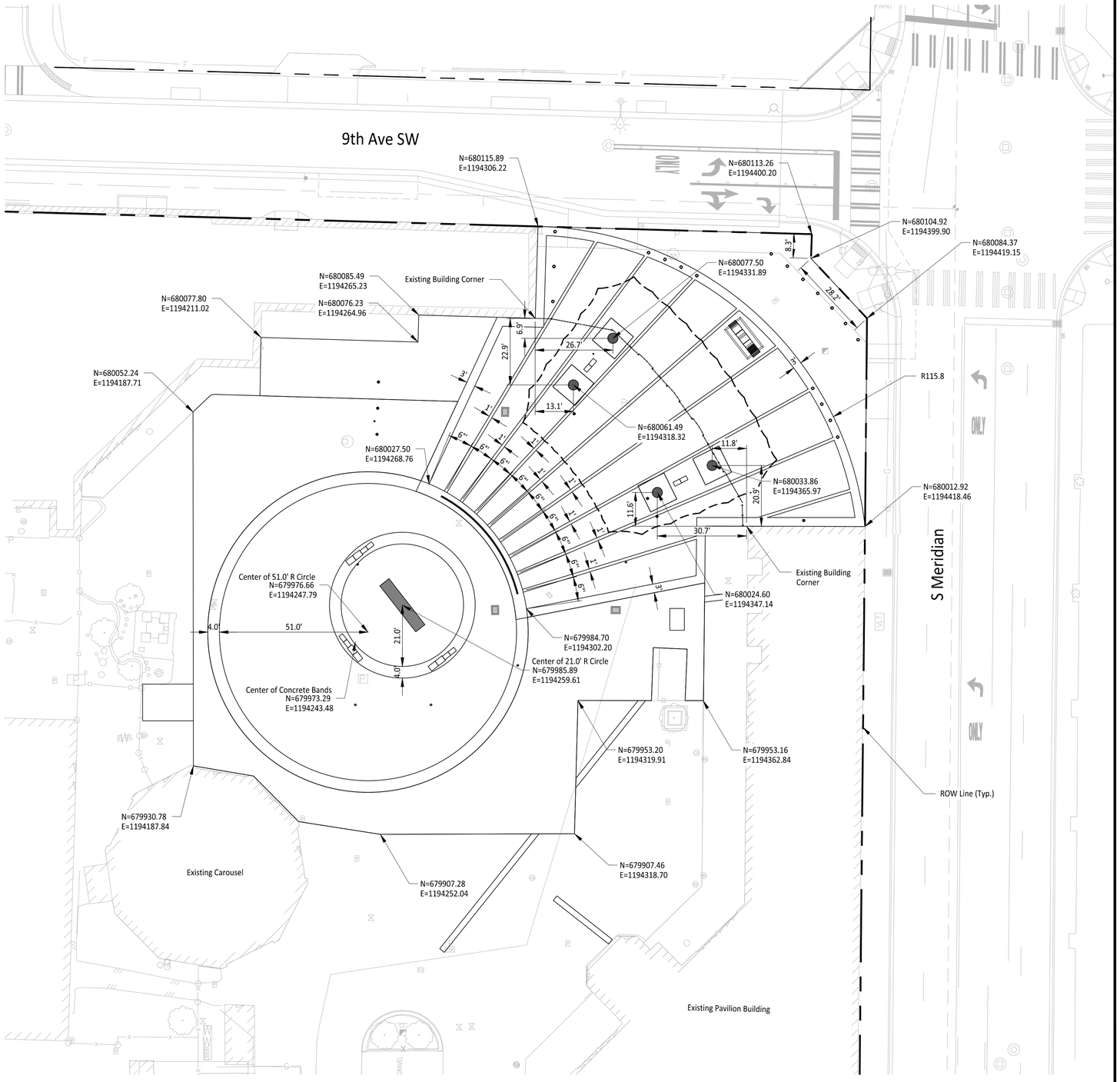
DRAWN BY:	DM	DESIGN BY:	JJ
PROJ. NO:	1507-012		
DATE:	April 18, 2024		

SHEET NAME
Washington State Fair Site Plan

DWG.
C1-101
04 OF 27

File: 1507012-SP-FAIR.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 18-Apr-24 11:06:16am



0 20 40 FEET
1" = 20'

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STATE OF WASHINGTON
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04/18/2024

REV	DATE	DESCRIPTION
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2	04-18-24	City Comment Revision #2

DRAWN BY: DM | DESIGN BY: JJ

PROJ.NO: 1507-012

DATE: April 18, 2024

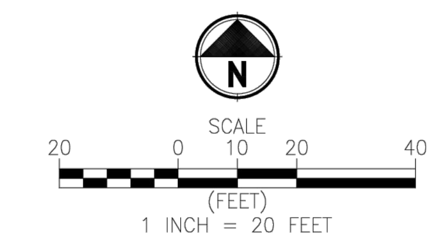
SHEET NAME
Building Control Plan

DWG.
C1-102
05 OF 27

File: 1507012C-CNTRL.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 18-Apr-24 10:05:43am

BOUNDARY & TOPOGRAPHIC SURVEY

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



HORIZONTAL DATUM:

HORIZONTAL DATUM FOR THIS SURVEY IS NAD 1983(91), WASHINGTON PLANE SOUTH ZONE COORDINATE SYSTEM, U.S. SURVEY FEET. THE HORIZONTAL DATUM IS BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATION GP27512-18AZ (PMX #101)

POINT DESIGNATION GP27512-18AZ (PMX #101)
NORTHING: 678467.150
EASTING: 1194300.738

VERTICAL DATUM:

VERTICAL DATUM IS NGVD29 BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATION GP-27512-18AZ (PMX #101)

POINT DESIGNATION GP-27512-18AZ (PMX #101)
ELEVATION: 77.073

SURVEY NOTES:

1. THIS MAP CORRECTLY REPRESENTS CONDITIONS AND FEATURES EXISTING AT THE TIME OF THIS SURVEY IN MARCH, 2023.

2. CONVENTIONAL AND GPS SURVEY EQUIPMENT WAS USED IN THE PERFORMANCE OF THIS SURVEY. ALL EQUIPMENT IS MAINTAINED IN CONFORMANCE WITH CURRENT STATE STATUTE.

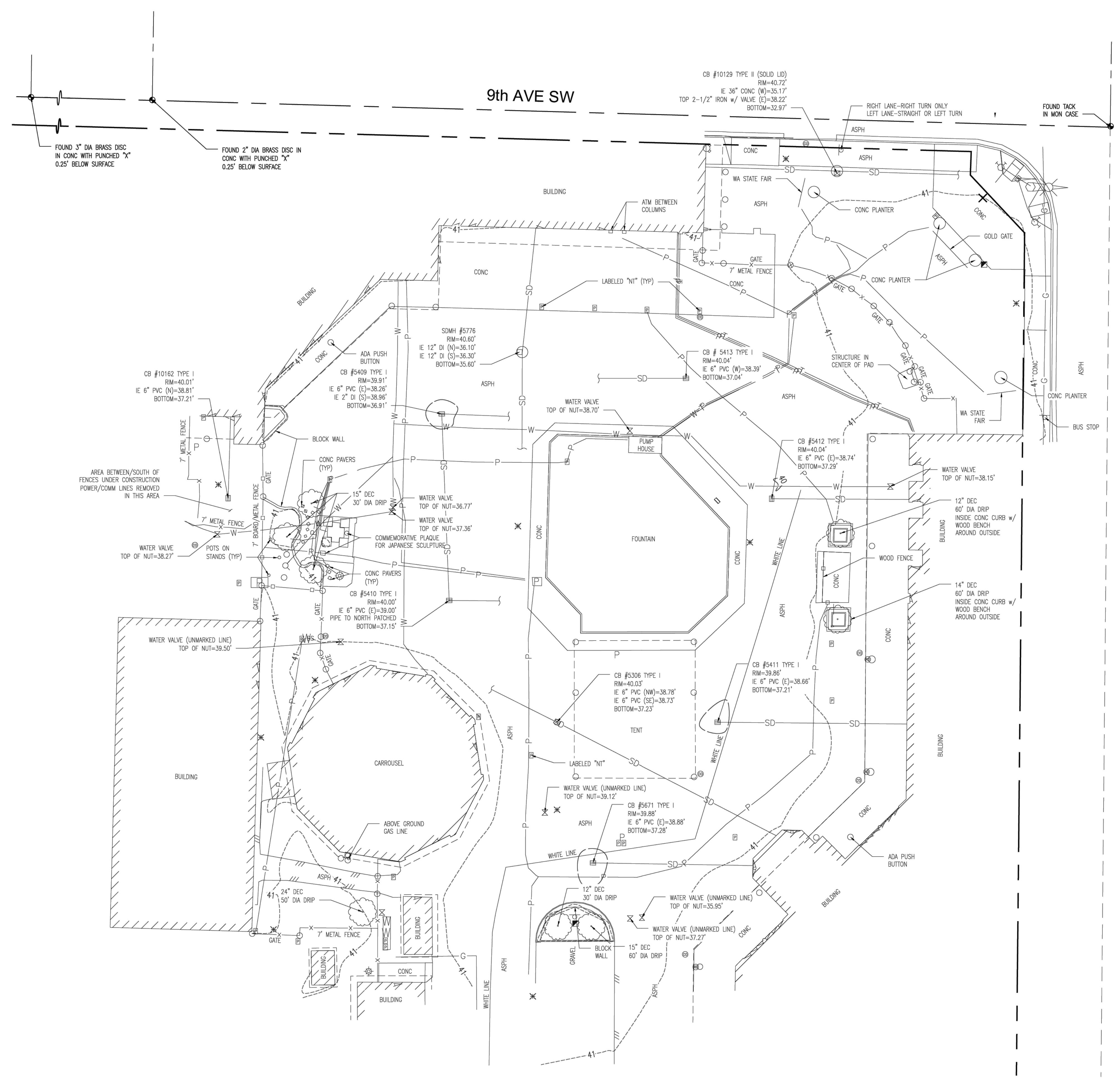
3. THIS SURVEY WAS PREPARED BY FIELD TRAVERSE AS PER WAC 332-130-090, PART C. RELATIVE ACCURACY EXCEEDS 1 FOOT IN TEN THOUSAND.

4. ALL SURFACE FEATURES AND INVERT STRUCTURE ELEVATION SHOWN HEREON WERE FIELD LOCATED AND MEASURED BY PARAMETRIX FOR THIS SURVEY. UNDERGROUND UTILITY LINES ARE BASED UPON A COMBINATION OF SURFACE FEATURE MEASUREMENTS AND ONSITE UNDERGROUND UTILITY MARKINGS PERFORMED BY OTHERS.

5. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

6. BOUNDARY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION. BOUNDARY LINES SHOWN ARE FOR REPRESENTATION PURPOSES ONLY AND SHOULD NOT BE USED FOR DESIGN ACTIVITIES THAT WILL RELY ON AN ACCURATE REPRESENTATION OF BOUNDARY INFORMATION.

7. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT, WHICH MAY REVEAL RESTRICTIONS OR EASEMENTS OF RECORD. ACCORDINGLY, NONE ARE SHOWN HEREON.



LEGEND

- FOUND CASED/SURFACE MONUMENT (AS NOTED)
- FOUND MAG NAIL
- SET MAG NAIL
- SET SCRIBE X
- DOOR
- SIGN
- BENCH
- COLUMN
- TRAFFIC SIGNAL-WALK POLE
- TRAFFIC SIGNAL POLE WITH LIGHT
- GAS METER
- DECIDUOUS TREE
- CATCH BASIN
- CATCH BASIN SOLID
- STORM CLEAN OUT
- MANHOLE STORM
- ROOF DRAIN
- SEWER VAULT
- POWER JUNCTION BOX
- POWER PANEL
- POWER VAULT
- GATE POST
- IRRIGATION VALVE
- FIRE HYDRANT
- WATER VAULT
- WATER VALVE
- LIGHT STANDARD
- BOLLARD/POST
- COMMUNICATION LOCATES
- GAS LOCATES
- STORM LOCATES
- POWER LOCATES
- WATER LOCATES
- WOOD FENCE
- FENCE (AS NOTED)
- BUILDING
- BUILDING EAVE
- EDGE OF ASPHALT
- SUBJECT PROPERTY LINE
- SECTION LINE
- SIXTEENTH LINE
- RIGHT OF WAY
- CENTERLINE

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FILE NAME 2473125013_PH01-SV-BA
JOB No. 247-3125-013-PH01
DATE 05/2023

GOLDEN GATE
WASHINGTON STATE FAIR
PUYALLUP, WA

DRAWING NO. 1 OF 1

APPROVED

BY [signature]
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 04/29/2024

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Project:
WSF Gold Gate Redevelopment

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Engineering	Public Works
Fire	Traffic

04/18/2024

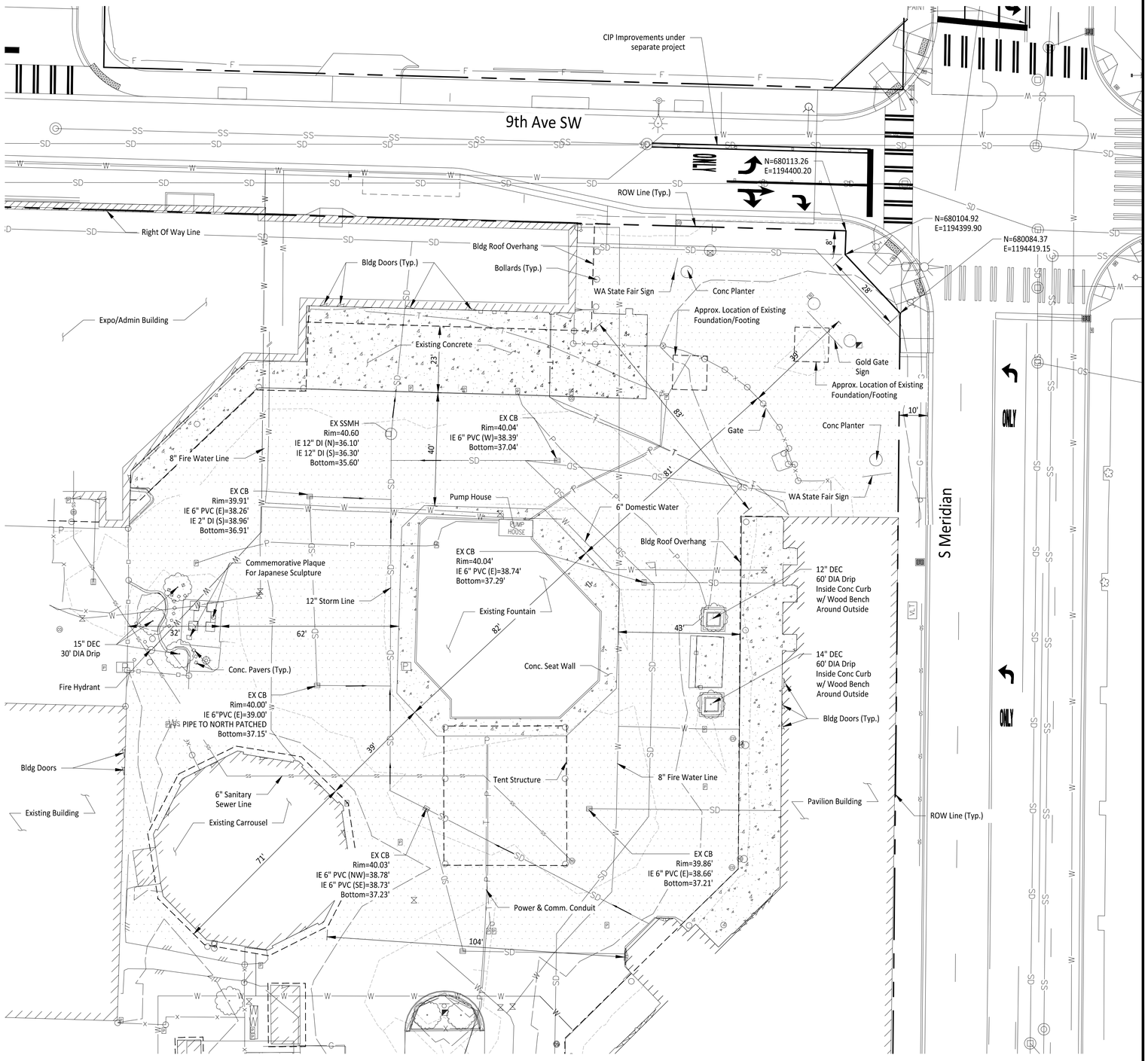
REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY:	DM	DESIGN BY:	JJ
PROJ. NO:	1507-012		
DATE:	April 18, 2024		

SHEET NAME
Boundary & Topographic Survey

DWG.
C1-201
06 OF 27

File: 1507012-BNDY-TOPO.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 18-Apr-24 10:01:26am



LEGEND

- Set Mag Nail
- Found Mag Nail
- Found Cased/Surface Monument
- Set Scribe X
- Door
- Sign
- Bench
- Column
- Traffic Signal- Walk Pole
- Traffic Signal Pole With Light
- Gas Meter
- Deciduous Tree
- Catch Basin
- Catch Basin Solid
- Storm Clean Out
- Manhole Storm
- Roof Drain
- SS Sewer Vault
- Power Junction Box
- Power Panel
- P Power Vault
- Gate Post
- Irrigation Valve
- Fire Hydrant
- W Water Vault
- Water Valve
- Light Standard
- Bollard/Post
- T Communication Locates
- G Gas Locates
- SD Storm Locates
- P Power Locates
- W Domestic Water Locates
- 8"W Fire Water Locates
- Wood Fence
- Fence
- Building
- Building Roof Overhang
- Edge Of Asphalt
- Subject Property Line
- Section Line
- Sixteenth Line
- Right Of Way
- Center Line
- Sanitary Sewer
- Existing Asphalt
- Existing Concrete

HORIZONTAL DATUM:

Horizontal Datum for this survey is NAD 1983(91), Washington plane south zone coordinate system, U.S. survey feer. The horizontal datum is based on published information from WSDOT, point designation GP27512-18AZ (PMX #101)

Point Designation GP27512-18AZ (PMX #101)
Northing: 678467.150
Easting: 1194300.738

VERTICAL DATUM:

Vertical Datum is NGVD29 based on published information from WSDOT, point designation GP-27512-18AZ (PMX #101)

Point Designation GP-27512-18AZ (PMX #101)
Elevation: 77.073

GENERAL NOTES

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

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 04/29/2024

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0 20 40 FEET
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JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED PROFESSIONAL ENGINEER
04/18/2024

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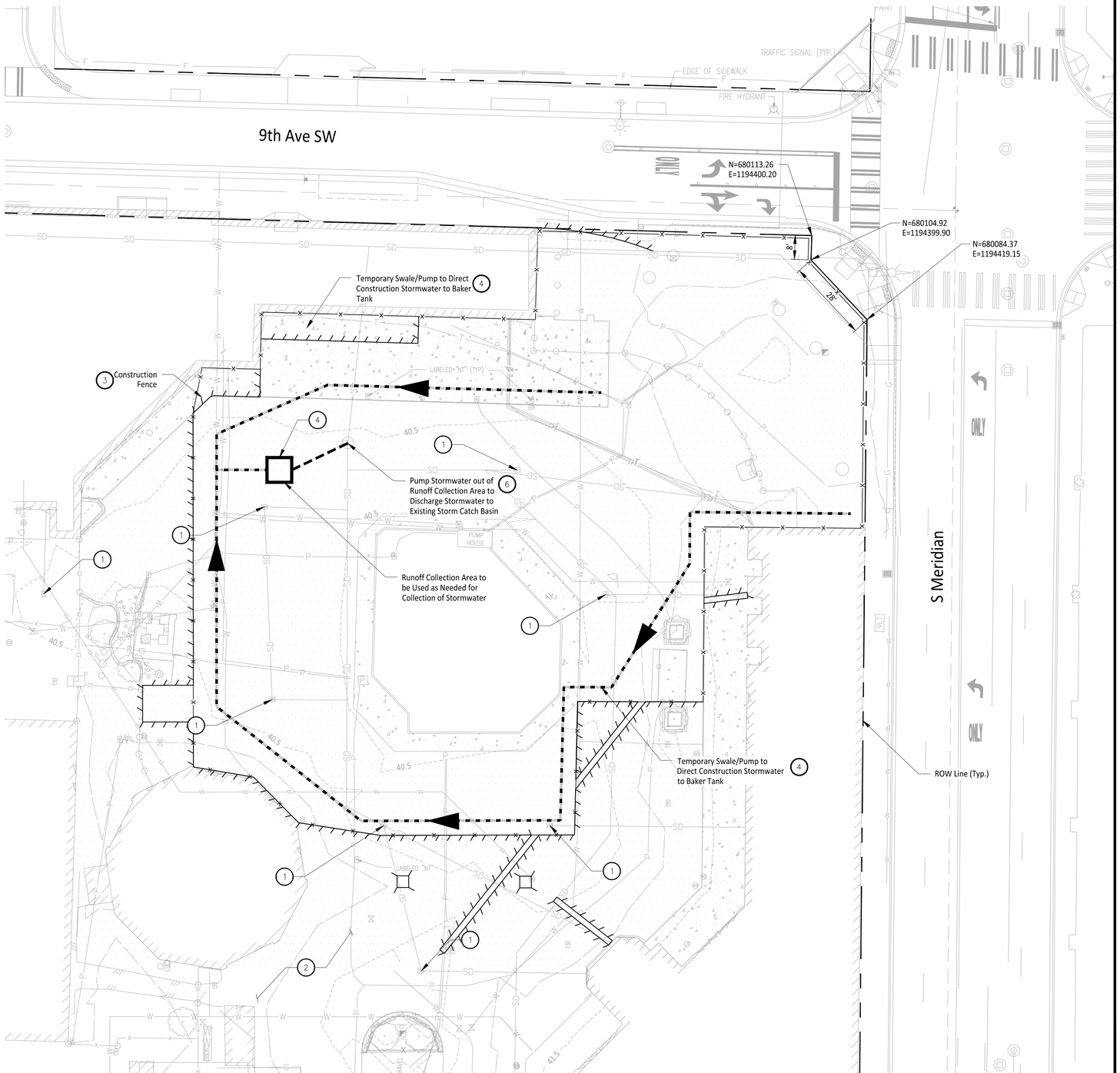
DRAWN BY: DM | DESIGN BY: JJ
PROJ.NO: 1507-012
DATE: April 18, 2024

SHEET NAME
Existing Site Plan

DWG.
C1-202
07 OF 27



CONSTRUCTION NOTES

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.
2. 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.
3. Install straw wattles in accordance with DOE BMP 235 around excavation limits.
4. Maintain temporary swale/ditch piping to gravity flow stormwater to Collection Area.
5. If necessary, alternative sediment control methods shall be submitted by the contractor for review and approval prior to construction.
6. 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

GENERAL NOTES

1. Construct Pipe trench bedding and backfill as necessary per City of Puyallup Standard Detail 06.01.01.
2. Install straw bale barriers, wattles, and other necessary TESC measures as required.
3. 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 C151.
5. 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 days from time of clearing & grading shall be revegetated with the native vegetation.
8. All BMP's per City of Puyallup standards and protection CSWPPP.
9. 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.
    - 10.2. 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.
    - 10.3. 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.
    - 10.4. 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.
    - 10.5. 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.
8. 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.

0 20 40 FEET
1" = 20'

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BY _____
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DEVELOPMENT ENGINEERING
DATE 04/29/2024
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Washington State Fair
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(253) 841-5356

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(253) 606-8324
Contact: Jeff Brown

Engineer:
JJ TEAM
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
WSF Gold Gate Redevelopment

Civil Construction Permit

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

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JUSTIN M. JONES STATE OF WASHINGTON 41829 REGISTERED PROFESSIONAL ENGINEER
04/18/2024

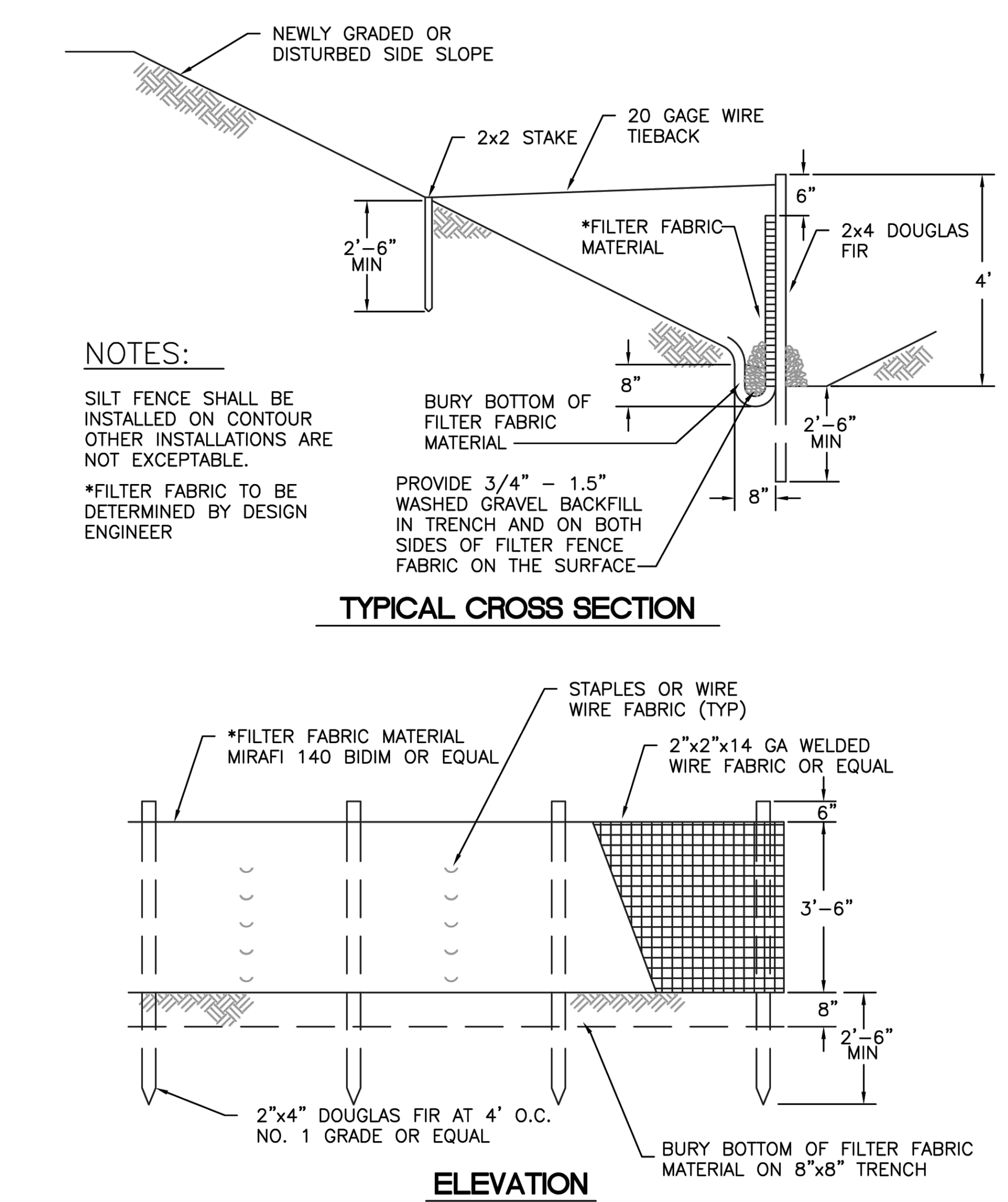
REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY: DM | DESIGN BY: JJ
PROJ. NO: 1507-012
DATE: April 18, 2024

SHEET NAME
TESC Plan

DWG.
C2-101
08 OF 27

File: 1507012C-TESC.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 18-Apr-24 10:16:32am



NOTES:

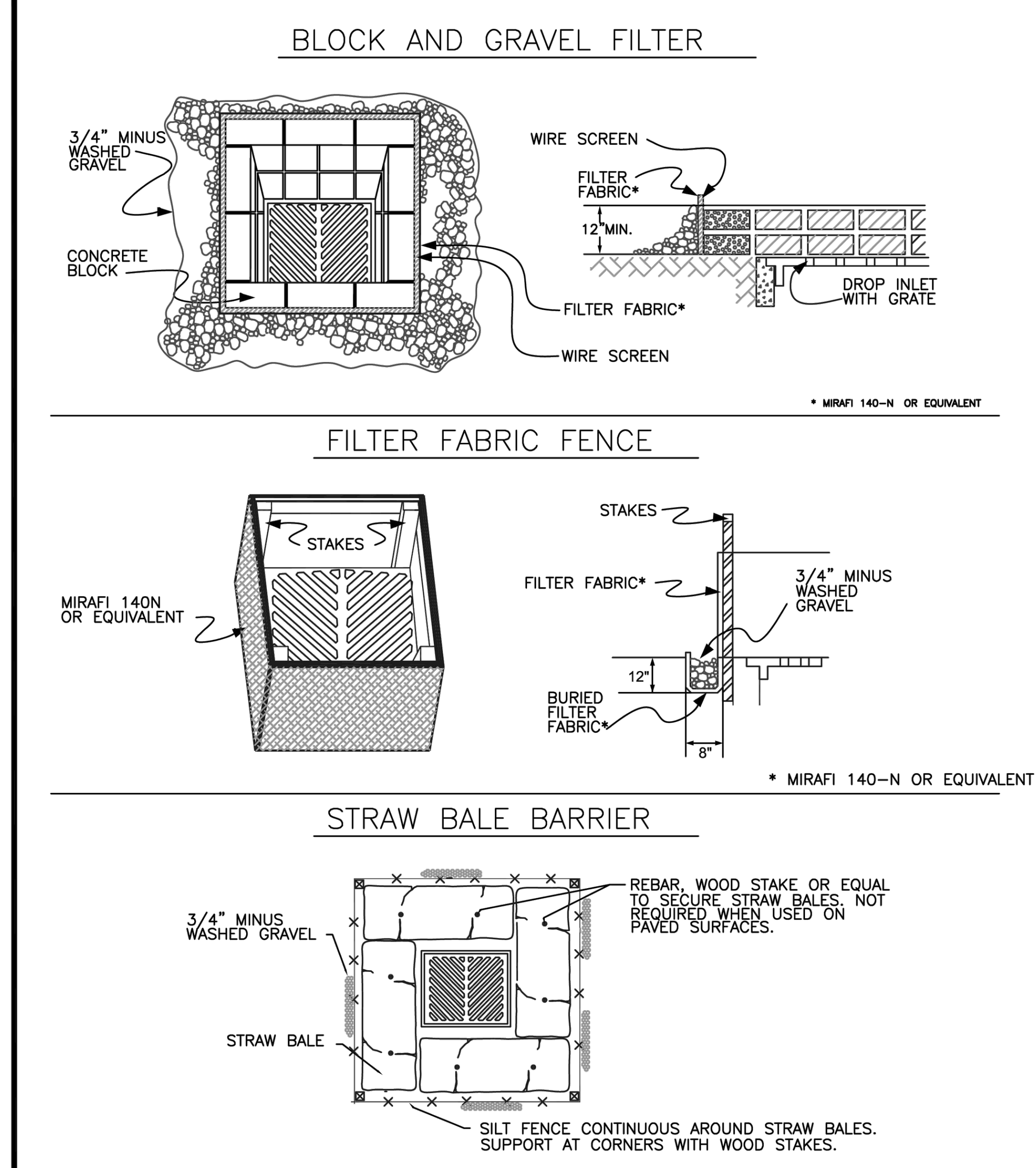
SILT FENCE SHALL BE INSTALLED ON CONTOUR OTHER INSTALLATIONS ARE NOT EXCEPTABLE.

*FILTER FABRIC TO BE DETERMINED BY DESIGN ENGINEER

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SILTATION FENCE

DRAWN BY LINDA LANSING | CHECKED BY LINDA LIAN | APPROVED BY COLLEEN HARRIS | REVISED BY XXXX | CITY STANDARD 02.03.02



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM DRAIN BARRIERS

DRAWN BY LINDA LANSING | CHECKED BY LINDA LIAN | APPROVED BY COLLEEN HARRIS | REVISED BY XXXX | CITY STANDARD 02.03.05

CONDITIONS WHERE PRACTICE APPLIES

1. BLOCK AND GRAVEL FILTER – APPLICABLE FOR AREAS GREATER THAN 5% SLOPE.
2. FILTER FABRIC FENCE – APPLICABLE WHERE THE INLET DRAINS A RELATIVELY SMALL (ONE ACRE OR LESS) AND FLAT AREA (LESS THAN 5% SLOPE).
3. STRAW BALE BARRIER – APPLICABLE WHERE INLET DRAINS A RELATIVELY FLAT DISTURBED AREA (LESS THAN 5% SLOPE) IN WHICH SHEET FLOW (NOT EXCEEDING 0.5 FT/SEC.) OCCURES. BARRIERS OF THIS TYPE SHOULD NOT BE PLACED AROUND INLETS RECEIVING CONCENTRATED FLOWS SUCH AS THOSE ALONG MAJOR STREETS AND HIGHWAYS.

1. BLOCK AND GRAVEL FILTER – INSTALLATION PROCEDURE

A: PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF ONE FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. USE WIRE SCREEN WITH 1/2-INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC* OVER WIRE MESH.

B: PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, SO THAT THE OPEN ENDS FACE OUTWARD, NOT UPWARD. THE ENDS OF ADJACENT BLOCKS SHOULD ABUT. THE HIEGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF BLOCKS THAT ARE 4-INCH, 8-INCH AND 12-INCH WIDE. THE ROW OF BLOCKS SHOULD BE AT LEAST 12-INCHES BUT NO GREATER THAN 24-INCHES HIGH.

C: PLACE WIRE SCREEN OVER THE OVERSIDE VERTICAL FACE (OPEN END) OF THE CONCRETE BLOCKS TO PREVENT STONES FROM BEING WASHED THROUGH THE BLOCKS. USE WIRE SCREEN WITH 1/2-INCH OPENINGS.

D: PILE STONES AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS. USE 3/4" MINUS WASHED GRAVEL.

2. FILTER FABRIC FENCE – INSTALLATION PROCEDURE

A: PLACE 2-INCH BY 2-INCH WOODEN STAKES AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVE THEM AT LEAST 8-INCHES INTO THE GROUND. THE STAKES MUST BE AT LEAST 3 FEET LONG.

B: EXCAVATE A TRENCH APPROXIMATELY 8-INCHES WIDE AND 12-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.

C: STAPLE THE FILTER FABRIC* TO THE WOODEN STAKES SO THAT 32-INCHES OF THE FABRIC EXTENDS AND CAN BE FORMED INTO THE TRENCH, AND USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2-INCHES LONG.

D: BACKFILL THE TRENCH WITH 3/4-INCH MINUS WASHED GRAVEL ALL THE WAY AROUND.

3. STRAW BALE BARRIER – INSTALLATION PROCEDURE

A: EXCAVATE A 4-INCH DEEP TRENCH AROUND THE INLET. MAKE THE TRENCH AS WIDE AS A STRAW BALE.

B: ORIENT STRAW BALES WITH THE BINDINGS AROUND THE SIDES OF THE BALES RATHER THAN OVER AND UNDER THE BALES.

C: PLACE BALES LENGTHWISE AROUND THE INLET AND PRESS THE ENDS OF ADJACENT BALES SECURELY IN PLACE.

D: DRIVE TWO 2-INCH BY 2-INCH STAKES THROUGH EACH BALE TO ANCHOR THE BALE SECURELY IN PLACE.

E: BACKFILL THE EXCAVATED SOIL AND COMPACT IT AGAINST THE BALE.

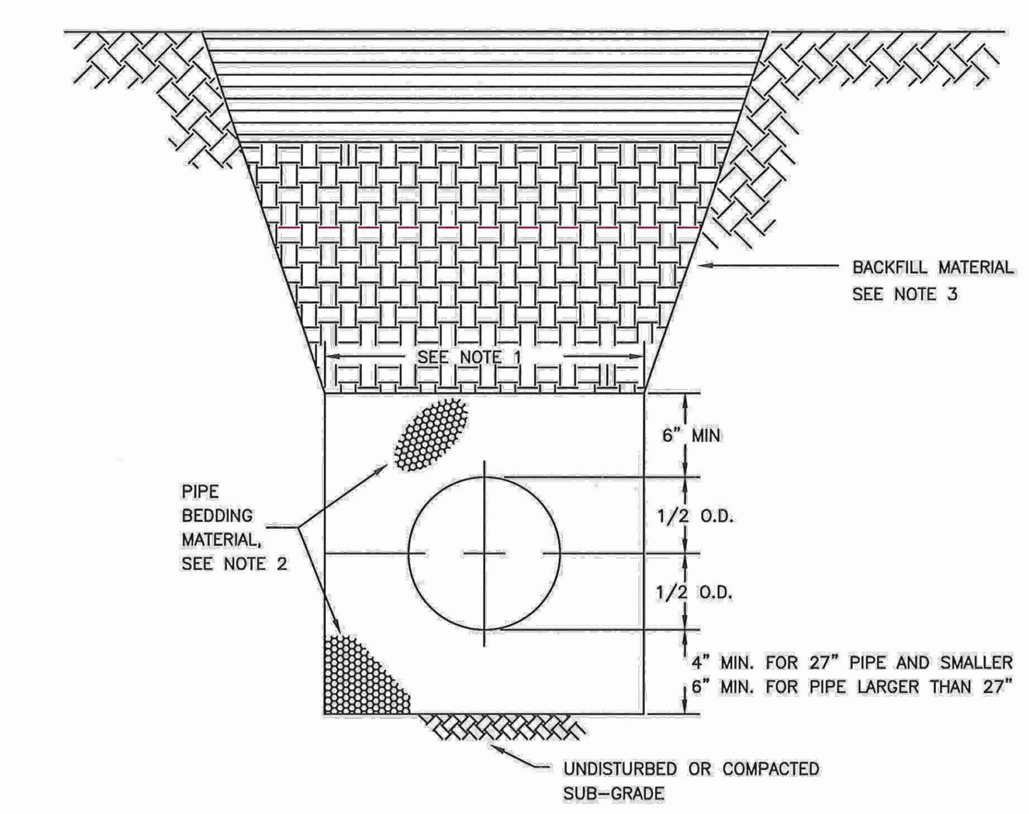
F: WEDGE LOOSE STRAW BETWEEN BALES TO PREVENT WATER FROM FLOWING BETWEEN BALES.

* MIRAFI 140-N OR EQUIVALENT

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM DRAIN BARRIERS NOTES

DRAWN BY LINDA LANSING | CHECKED BY LINDA LIAN | APPROVED BY COLLEEN HARRIS | REVISED BY XXXX | CITY STANDARD 02.03.06



1. TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(1)A AND 2-06.3(1) OF THE WSDOT SPECIFICATIONS.
2. BEDDING MATERIAL SHALL CONFORM TO 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
3. GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR FOUNDATIONS, CLASS A.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

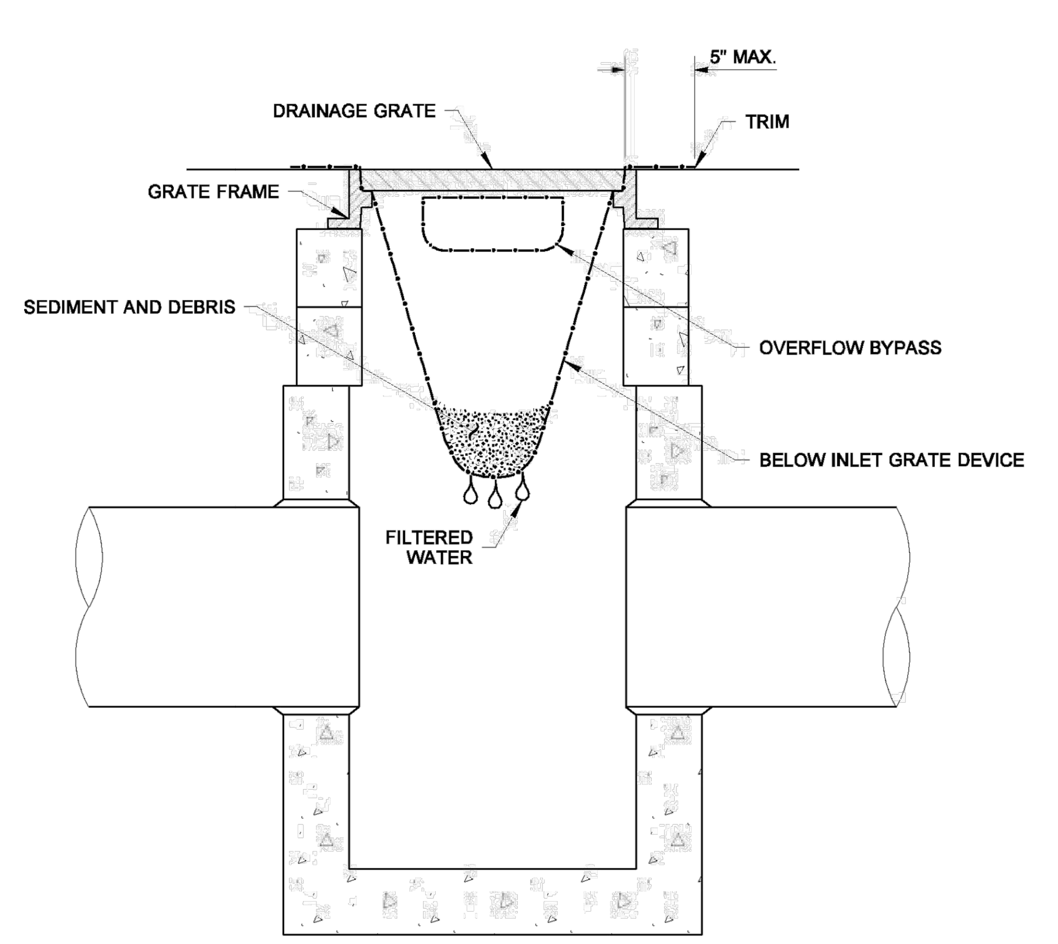
PIPE TRENCHING BEDDING AND BACKFILL

CITY STANDARD 06.01.01

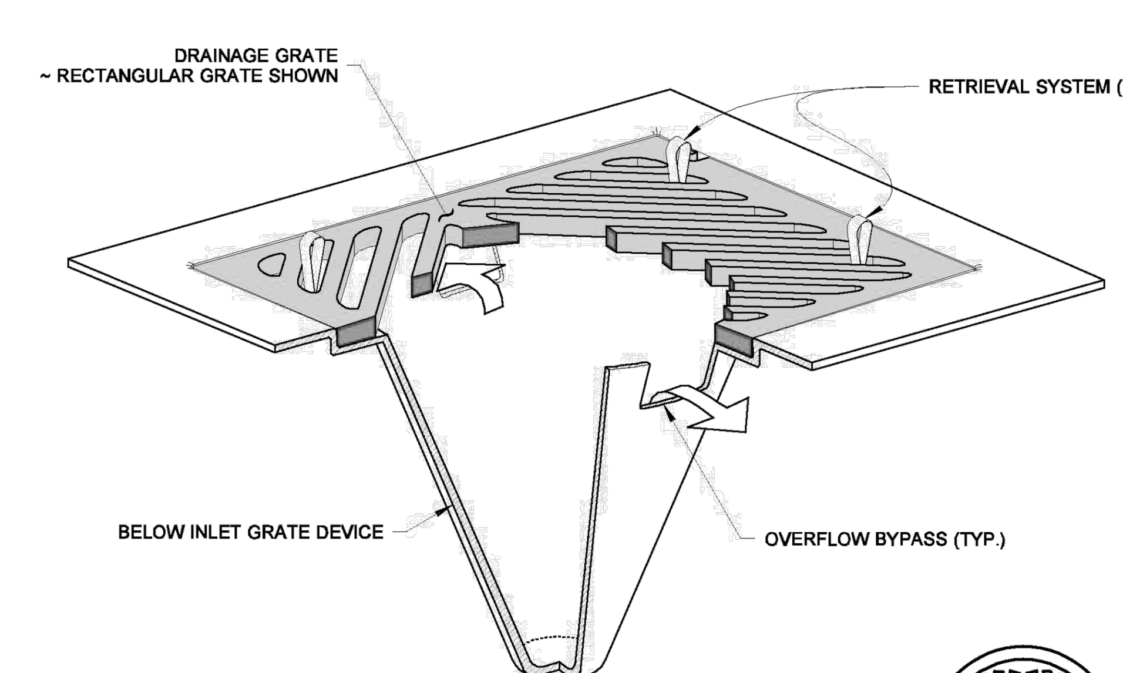
DRAWN BY: LISA CYFORD

NOTES

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



SECTION VIEW
NOT TO SCALE



ISOMETRIC VIEW

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
MARK W. MAURER
CERTIFICATE NO. 000598

STORM DRAIN INLET PROTECTION
STANDARD PLAN I-40.20-00
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Pasco Bakotich III 09-20-07
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

Plotted by: JMJ Date: 18-Apr-24 10:17:06am
Path: J:\1507 – Washington State Fair\1507-012 Gold Gate\CAD\
File: 1507012C-TESC-DT.dwg

APPROVED

BY *[signature]*
CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE 04/29/2024

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UTILITIES UNDERGROUND LOCATION CENTER

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JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED PROFESSIONAL ENGINEER
04/18/2024

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2	04-18-24	City Comment Revision #2

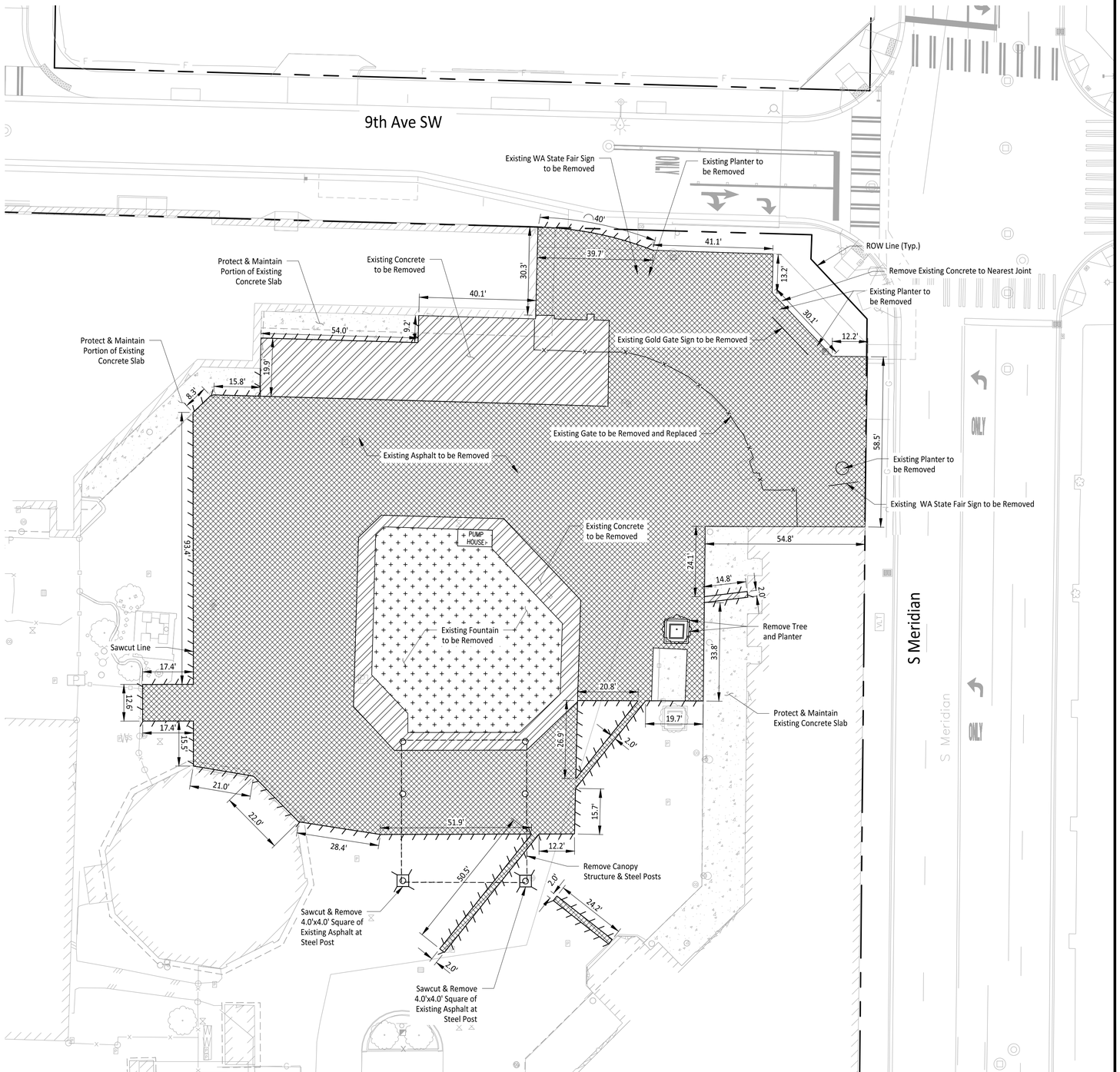
DRAWN BY: DM | DESIGN BY: JJ

PROJ. NO: 1507-012

DATE: April 18, 2024

SHEET NAME: TESC Details

DWG. C2-201



LEGEND

- Existing Asphalt to be Removed
- Existing Concrete to be Removed
- Existing Fountain to be Removed
- Sawcut

GENERAL NOTES

1. Total Asphalt Area to be Removed with Demolition = 24,875 SF
2. Total Concrete Area to be Removed with Demolition = 4,740 SF
3. Total Asphalt to be Sawcut = 780 LF
4. Total Fountain Area to be Removed = 3,800 SF

0 20 40 FEET
1" = 20'

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DRAWN BY: DM | DESIGN BY: JJ
PROJ.NO: 1507-012
DATE: April 18, 2024

SHEET NAME
Hardscape Demolition Plan

DWG.
C2-301
10 OF 27

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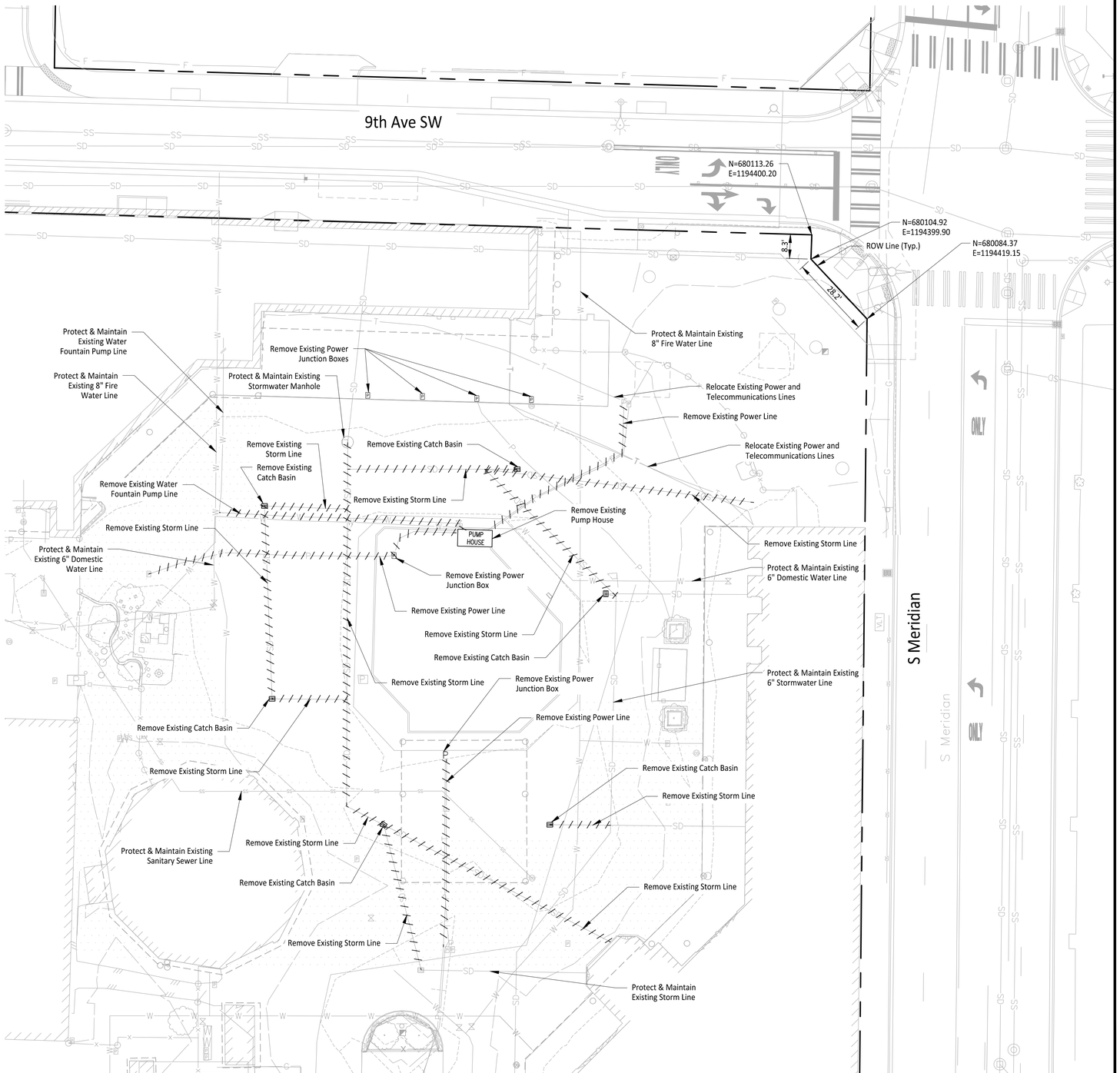

0 20 40 FEET
1" = 20'

GENERAL NOTES

1. Contractor to Pothole, Locate Horizontal and Vertical Utilities and Verify with Engineer prior to and Utility Work.
2. Existing Storm Lines to be removed = 685 LF
3. Existing Underground Power Conduit to be removed = 250 LF

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DEVELOPMENT ENGINEERING

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SHEET NAME
Utility Demolition Plan

DWG.
C2-302
11 OF 27

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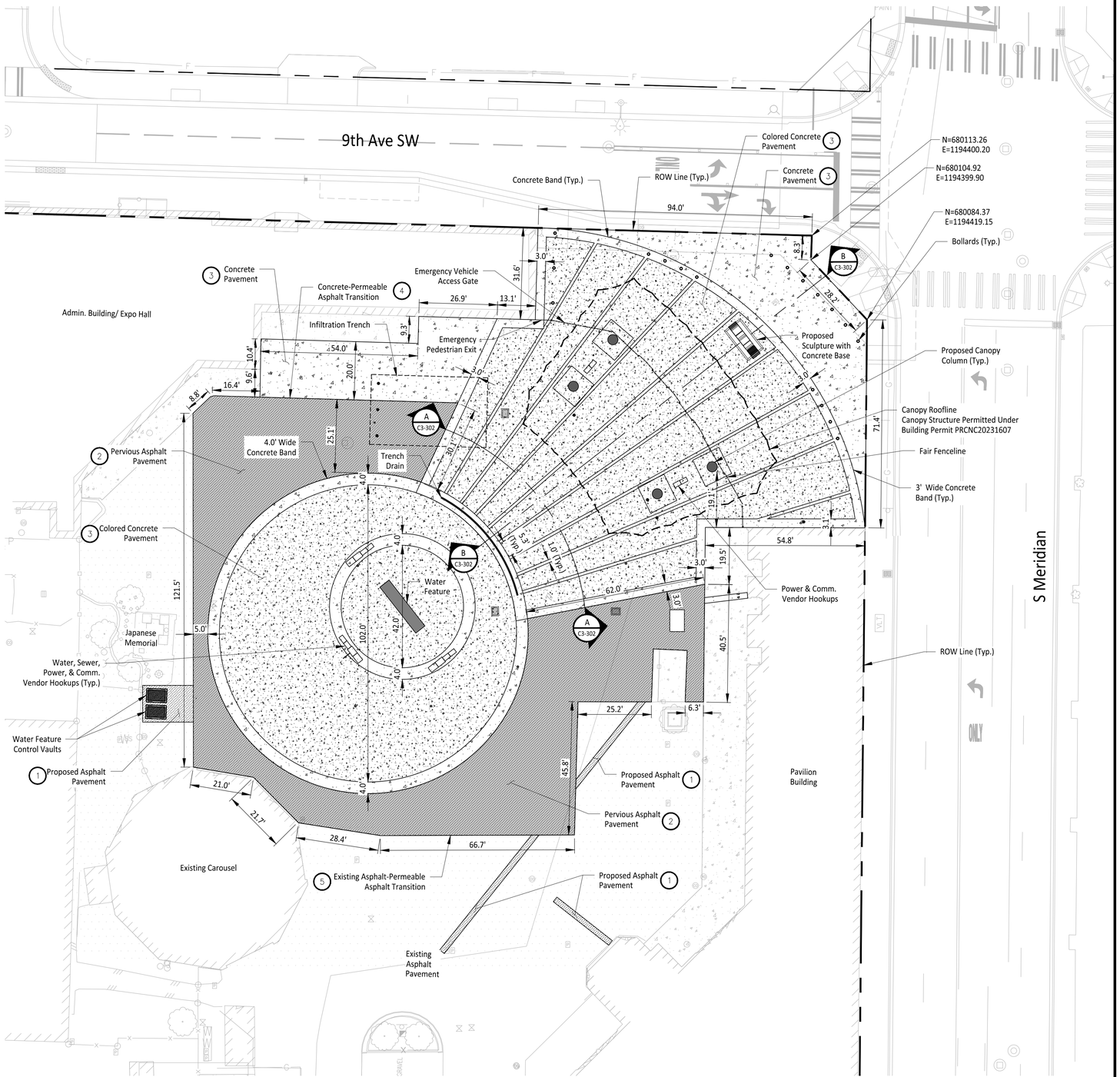

LEGEND

- Proposed Concrete Pavement
- Proposed Asphalt Pavement
- Proposed Pervious Asphalt Pavement
- Proposed Colored Concrete Pavement
- Proposed Canopy
- Proposed Bollard
- Proposed Canopy Column

CONSTRUCTION NOTES

1. Asphalt Pavement to be 3" HMA, Class ½" PG 58-22 over 4" Crushed Surfacing Base Course. See Detail A on Sheet C3-301 for section.
2. Permeable Asphalt Pavement to be 3" Permeable Asphalt over 1" AASHTO #57 Stone and 5" Permeable Ballast. See Detail B on Sheet C3-301 for section.
3. Concrete Pavement to be 4" concrete over 2" Crushed Surfacing Base Course. See Detail C on Sheet C3-301 for section.
4. Install transition between Concrete and Permeable Asphalt per Detail D on Sheet C3-301 for section.
5. Install transition between Permeable Asphalt and Existing Asphalt per Detail E on Sheet C3-301 for section.

0 20 40 FEET
1" = 20'

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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
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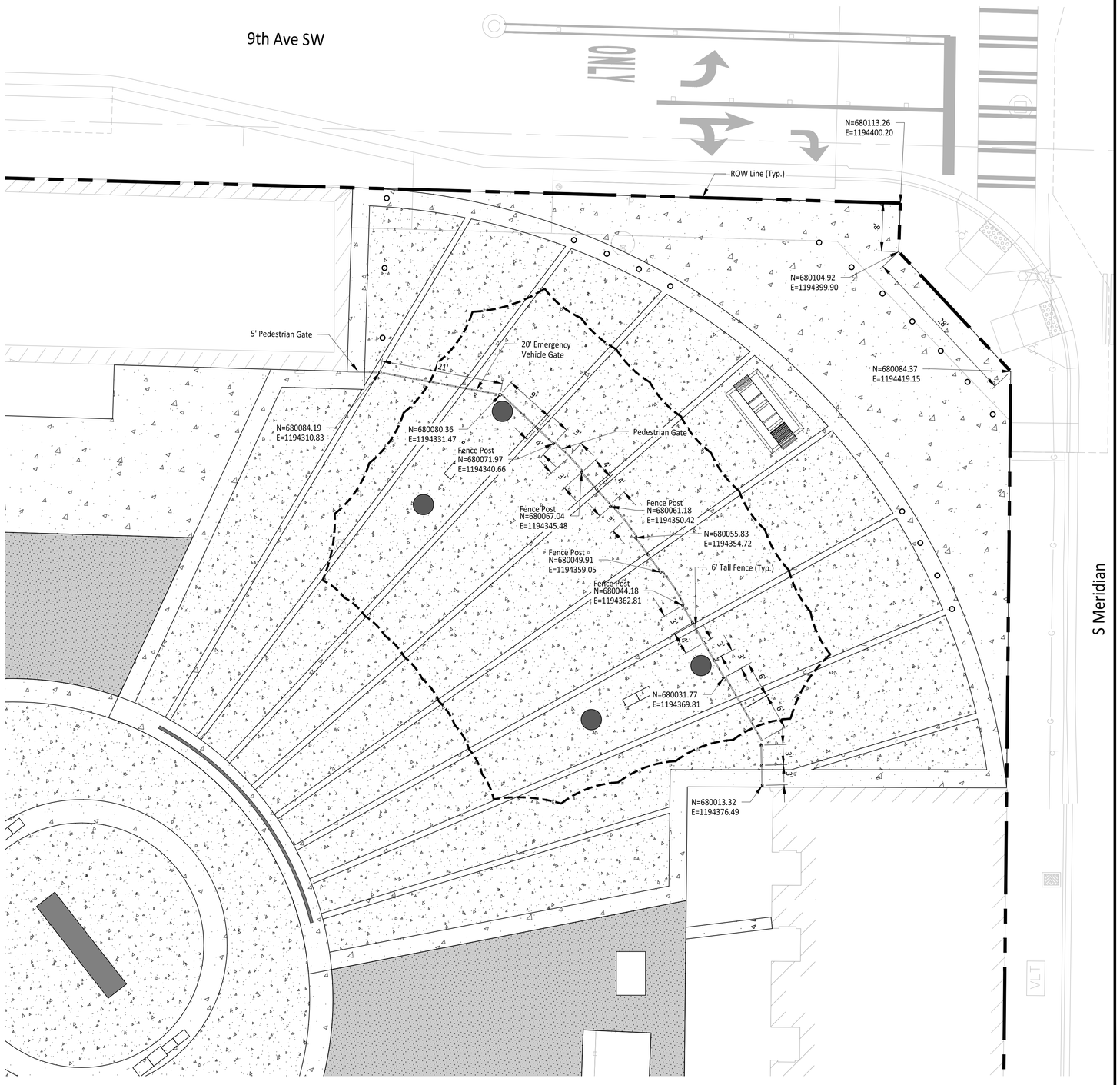
PROJ. NO: 1507-012
DATE: April 18, 2024

SHEET NAME
Composite Site Plan

DWG.
C3-101
12 OF 27

File: 1507012C-SP.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 18-Apr-24 10:31:52am



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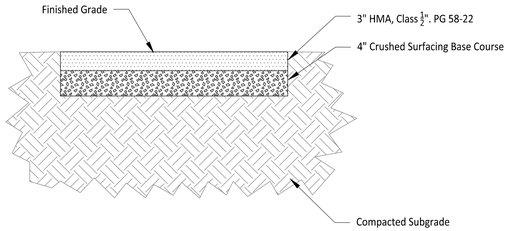
SHEET NAME

Fencing Plan

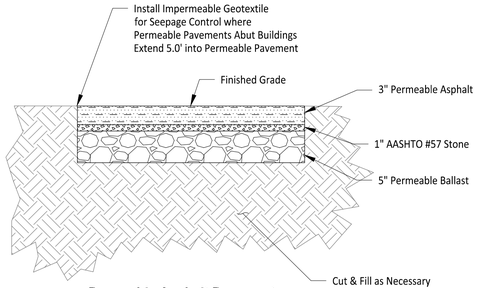
DWG.

C3-201

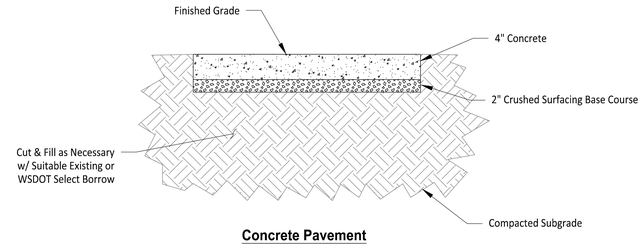
13 OF 27



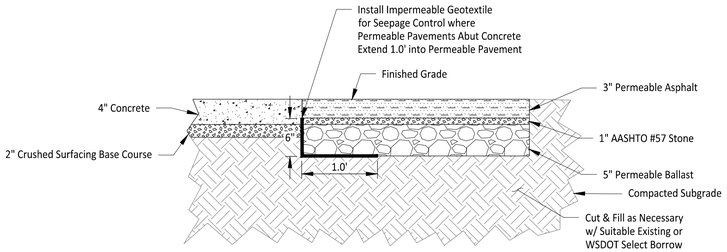
Asphalt Pavement
SECTION A
1" = 1' C3-301



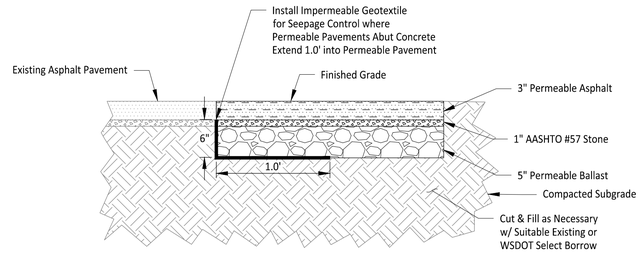
Permeable Asphalt Pavement
SECTION B
1" = 1' C3-301



Concrete Pavement
SECTION C
1" = 1' C3-301



Transition
Concrete-Permeable Asphalt
SECTION D
1" = 1' C3-301



Transition
Permeable/Existing Asphalt
SECTION E
1" = 1' C3-301

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DEVELOPMENT ENGINEERING

DATE 04/29/2024

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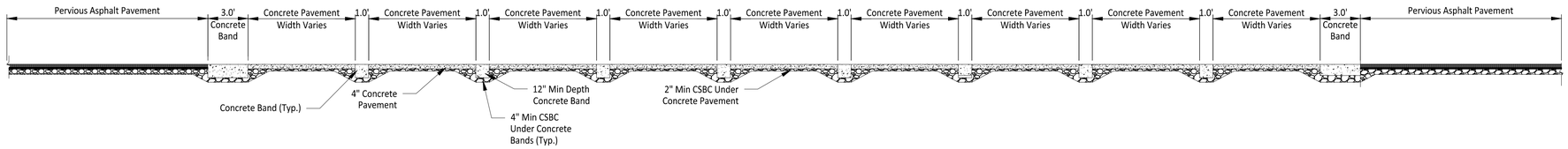
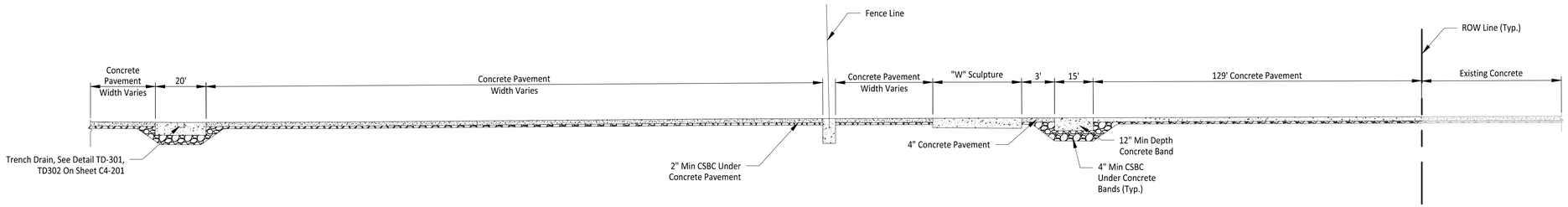
SHEET NAME: Hardscape Details
DWG: C3-301
14 OF 27

File: 1507012C-HS-DT.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 18-Apr-24 10:29:42am



SECTION A
1" = 5' C3-302



SECTION B
1" = 5' C3-302

APPROVED
BY Laurel D. Hillmyer
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 04/29/2024

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

Owner/Developer:
Washington State Fair
110 9th Ave SW
Puyallup, WA 98371
(253) 841-5356

Architect:
Jeff Brown Architecture
12181 C Street South
Tacoma, WA 98444
(253) 606-8324
Contact: Jeff Brown

Engineer:
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
WSF Gold Gate Redevelopment

Civil Construction Permit

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building | Planning
Engineering | Public Works
Fire | Traffic

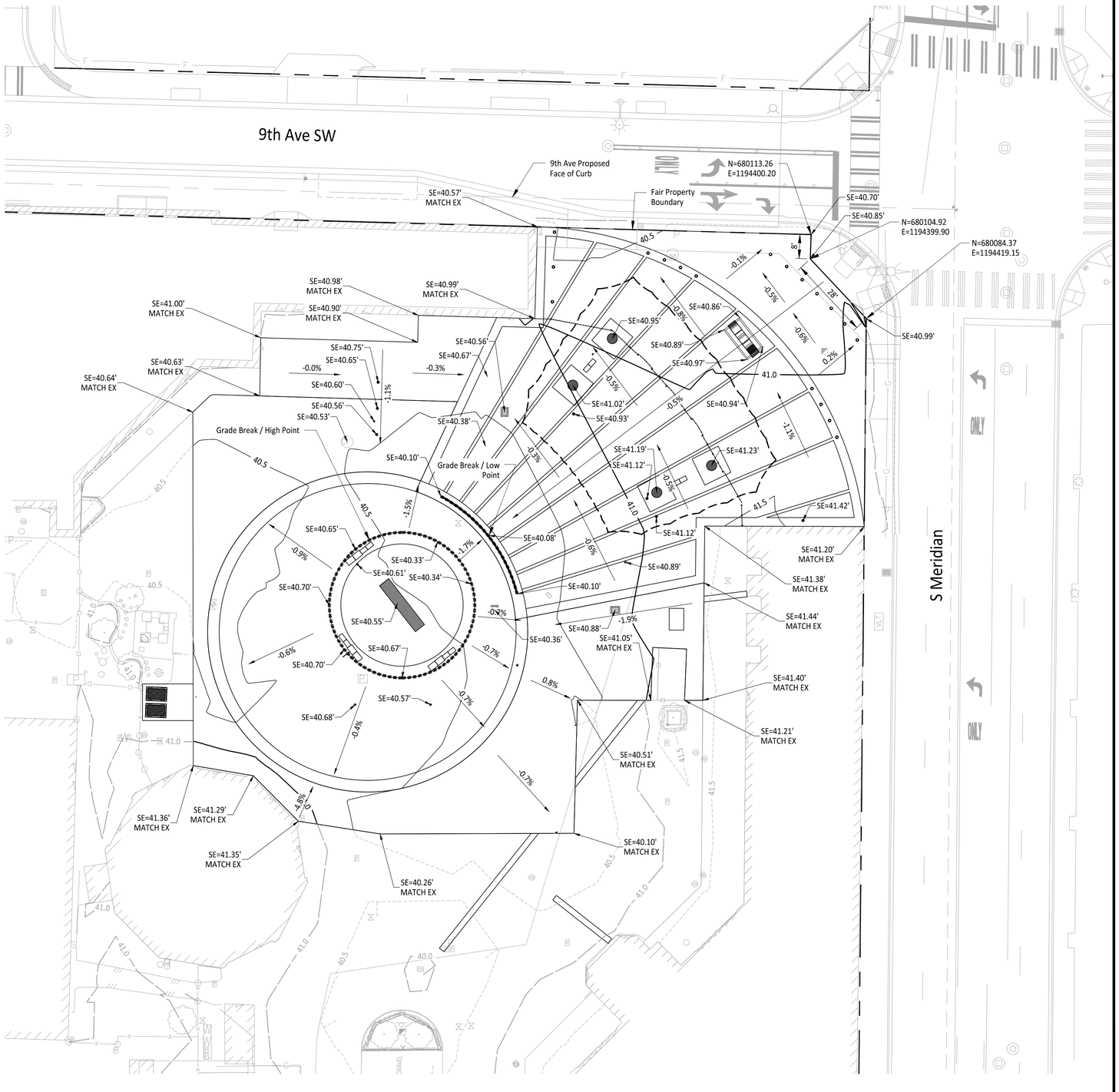
JUSTIN M. JONES
STATE OF WASHINGTON
41629
REGISTERED PROFESSIONAL ENGINEER
04/18/2024

REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY: DM | DESIGN BY: JJ
PROJ.NO: 1507-012
DATE: April 18, 2024

SHEET NAME
Hardscape Details

DWG.
C3-302
15 OF 27



0 20 40 FEET
1" = 20'

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DEVELOPMENT ENGINEERING

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DATE: April 18, 2024

SHEET NAME

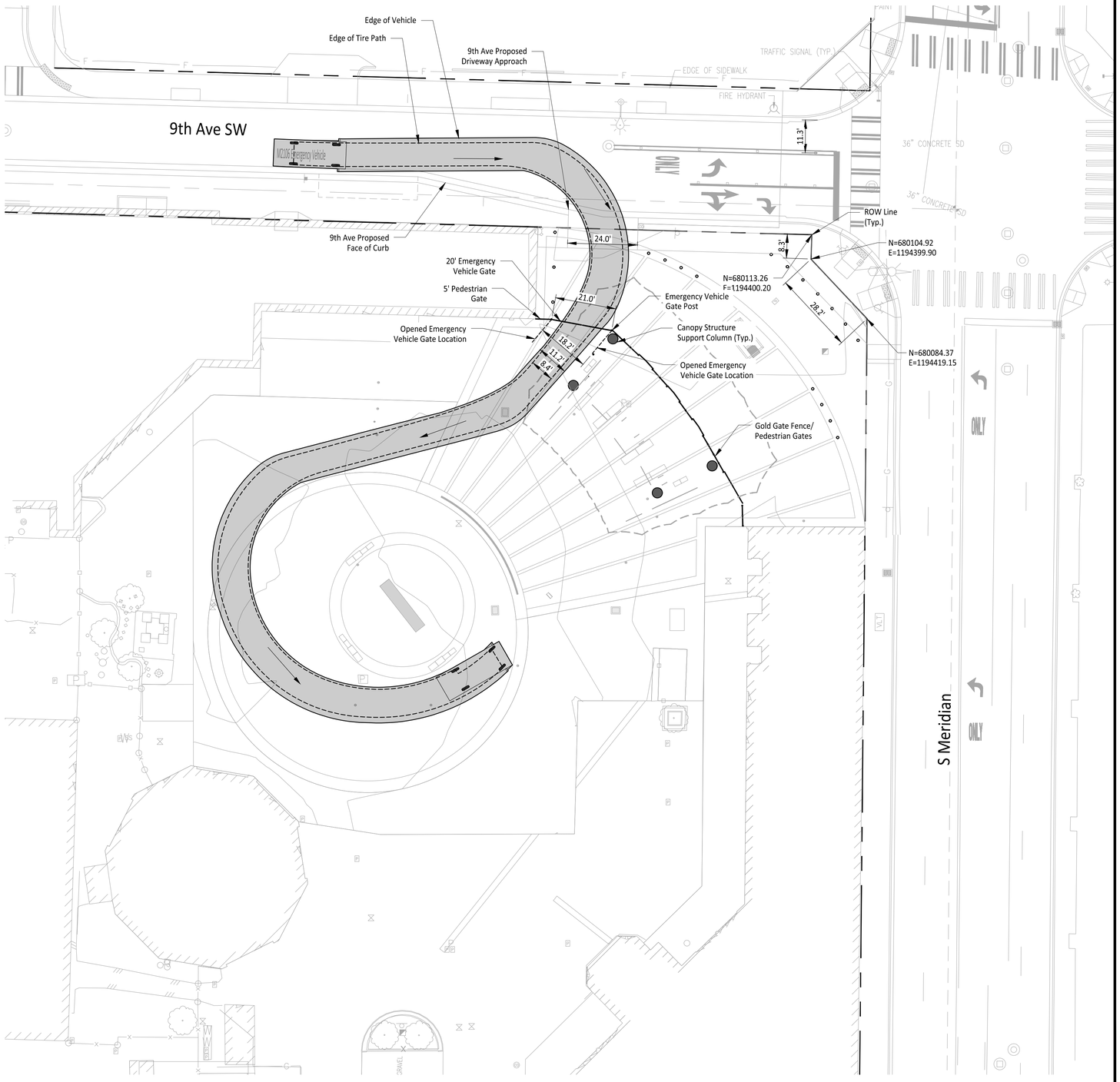
Grading Plan

DWG.

C3-401

16 OF 27

File: 1507012C-GR.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 18-Apr-24 10:27:14am



TURNING MOVEMENT NOTES:

1. Turning movements based upon M2106 Emergency Vehicle and information provided by Central Pierce Fire Department.

APPROVED

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DEVELOPMENT ENGINEERING

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PROJ. NO: 1507-012

DATE: April 18, 2024

SHEET NAME
Turning Movements -Entry

DWG.
C3-501

17 OF 27

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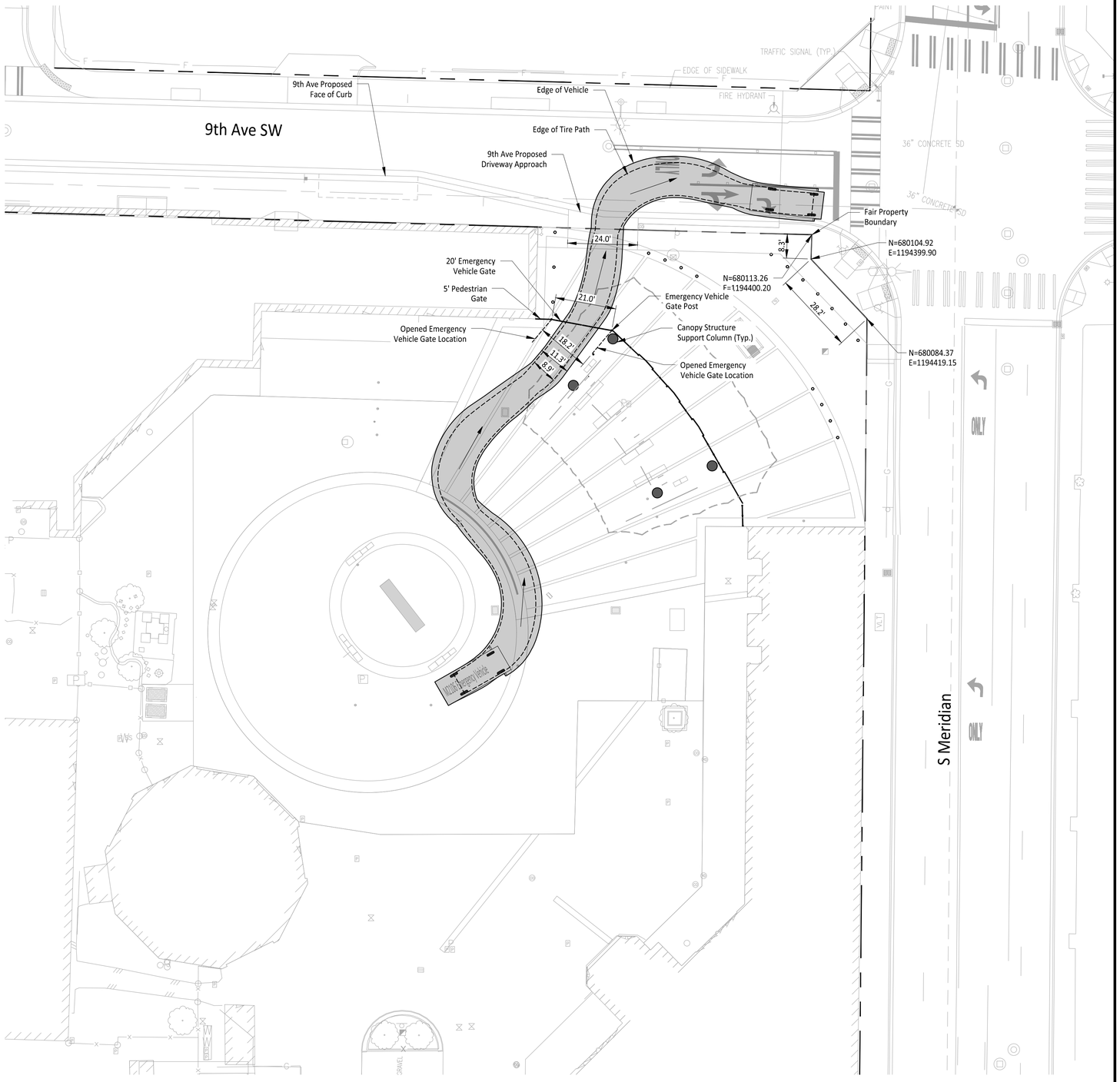

0 20 40 FEET
1" = 20'

TURNING MOVEMENT NOTES:

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PROJ.NO: 1507-012
DATE: April 18, 2024

SHEET NAME
Turning Movements -Exit

DWG.
C3-502
18 OF 27

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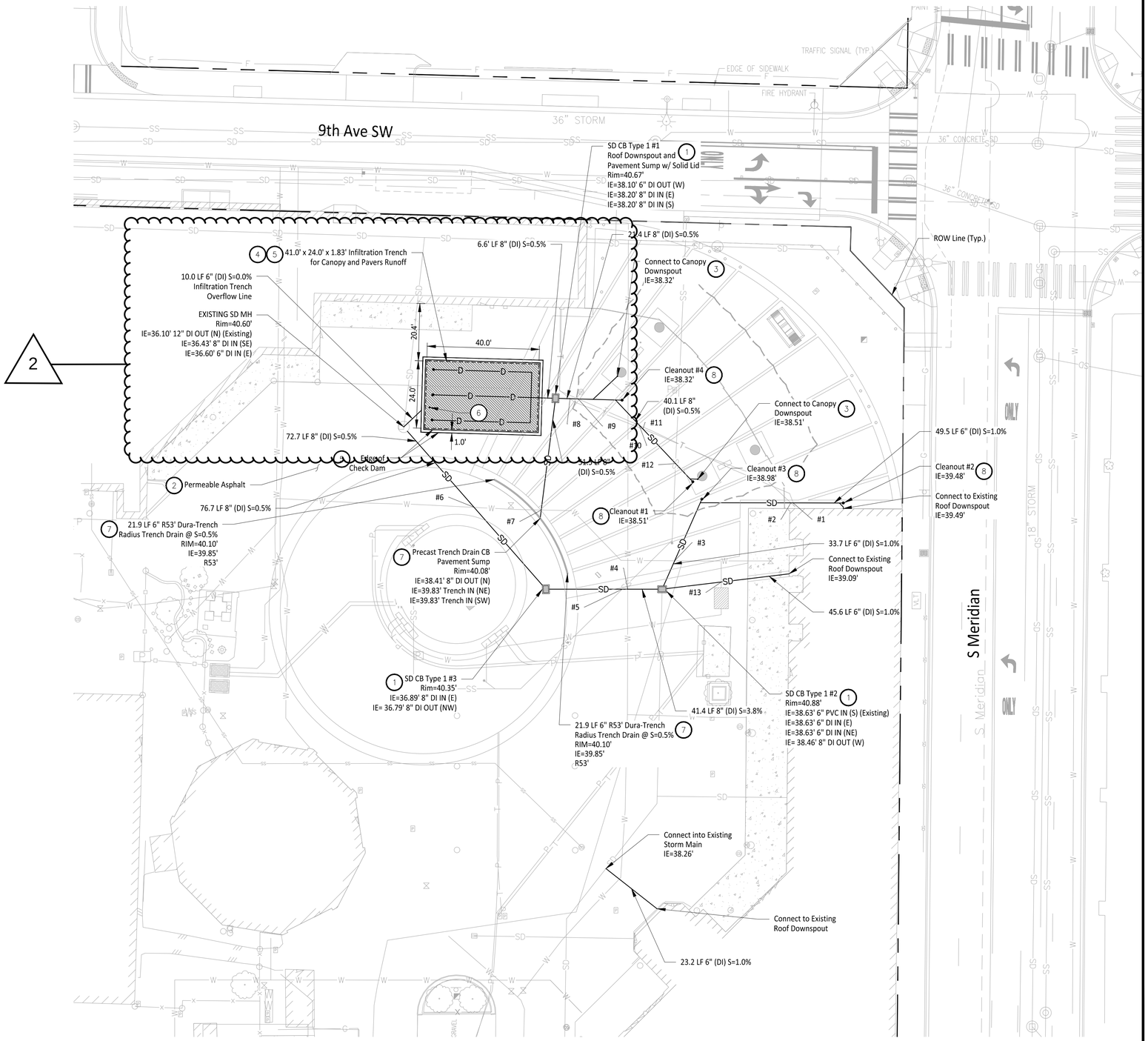

CONSTRUCTION NOTES

1. Install Solid Lid Catch Basin Type I per City of Puyallup Standard Details 02.01.02 and 02.01.05, on Sheet C4-202
2. Permeable Asphalt Pavement to be 3" Permeable Asphalt over 1" AASHTO #57 Stone and 5" Permeable Ballast. See Detail B on Sheet C4-201 for Section.
3. Canopy Downspout Location. See Architectural Plans for Details. Downspouts to be conveyed to Infiltration Basin with 8" DI Piping.
4. Infiltration Basin to collect proposed canopy runoff. Basin to include 8" Perforated DI pipe with 6" DI outfall to Catch Basins See Details A and B on Sheet C4-201 and City of Puyallup Standard Detail 02.05.01 on Sheet C4-202. Minimum 10' separation from Buildings.
5. Check Dam to be installed within the Permeable Pavement Layer around the Infiltration Basin Perimeter to maintain stormwater separation in pathways. See Sections B and C on Sheet C4-201.
6. Install Inspection Ports in the Infiltration Basin and Permeable Pavement Section. Inspection Ports to be 6" Slotted PVC Pipe with Removable Cap and Cast Iron Frame and Cover when located in Hardscape Areas. Inspection Ports shall be Installed to a depth equal to the bottom of the Permeable Ballast Storage Layer, see Details B and C on Sheet C4-201.
7. Install Trench Drain per Details E, F, and G on Sheet C4-201.
8. Install Storm Drain Cleanout per City of Puyallup Standard Detail 02.01.09, on Sheet C4-202.

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.
3. Soils below permeable pavement and infiltration gallery to be scarified, prior to installing each Stormwater Infiltration BMP.

Utility Crossing Table

Intersection #	Above Crossing Line	Below Crossing Line	Material Vertical Seperation (ft
#1	6" DI Stormwater Pipe	Telecommunications Line	0.50
#2	6" DI Stormwater Pipe	Telecommunications Line	0.50
#3	6" DI Stormwater Pipe	6" Cast Iron Water Pipe	0.81
#4	8" DI Stormwater Pipe	8" DI Water Pipe	0.50
#5	8" DI Stormwater Pipe	6" PVC Sanitary Sewer Pipe	2.10
#6	6" Cast Iron Water Pipe	8" DI Stormwater Pipe	0.15
#7	8" DI Stormwater Pipe	6" Cast Iron Water Pipe	0.57
#8	8" DI Stormwater Pipe	Telecommunications Line	0.50
#9	8" DI Stormwater Pipe	Telecommunications Line	0.50
#10	8" DI Stormwater Pipe	Telecommunications Line	0.50
#11	8" DI Stormwater Pipe	Telecommunications Line	0.50
#12	8" DI Stormwater Pipe	6" PVC Sanitary Sewer Pipe	3.16
#13	8" DI Stormwater Pipe	2" Poly Water Pipe	1.22

0 20 40 FEET
1" = 20'

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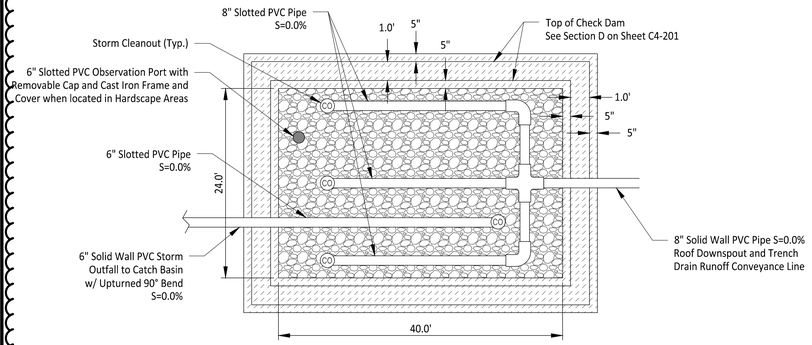
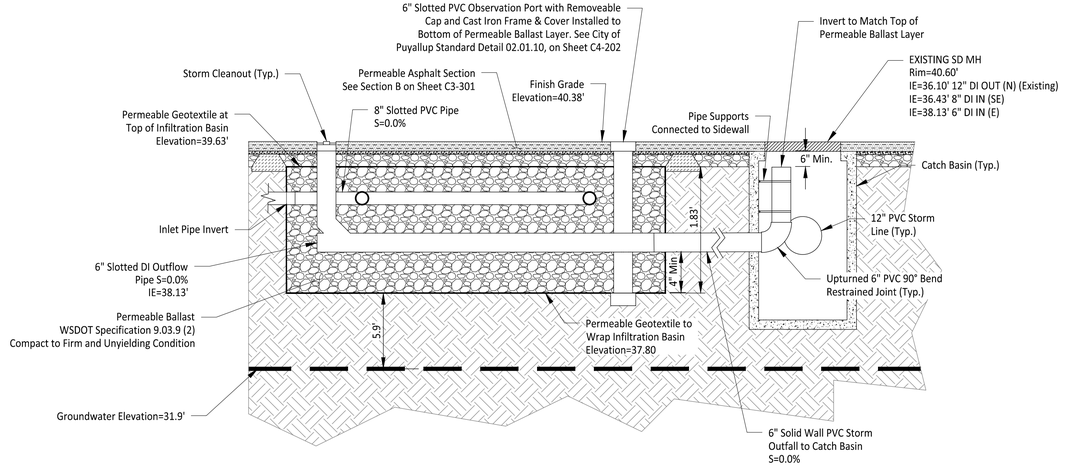
DRAWN BY: DM | DESIGN BY: JJ
PROJ. NO: 1507-012
DATE: April 18, 2024
SHEET NAME: Stormwater Plan
DWG. C4-101
19 OF 27

Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\
Plotted by: JMJ Date: 18-Apr-24 11:54:18am
File: 1507012C-UT-STRM.dwg

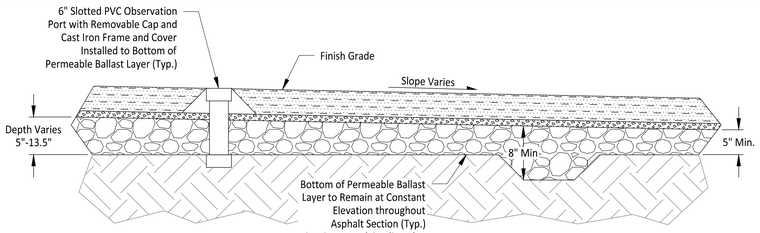


Infiltration Basin
PLAN VIEW A
NTS C4-201

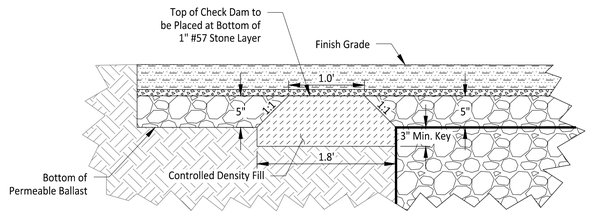


Infiltration Basin
SECTION B
NTS C4-201

2

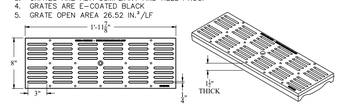


Permeable Asphalt Pavement Underdrain
SECTION C
1" = 1' C4-201



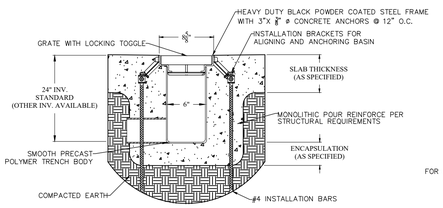
Permeable Asphalt Check Dam
SECTION D
1" = 1' C4-201

NOTES:
1. GRATE MATERIAL IS DUCTILE IRON
2. GRATES ARE LOAD CLASS D, EXCEEDS H-20 LOADING
3. GRATES ARE ADA COMPLIANT AND HEEL PROOF
4. GRATES ARE E-COATED BLACK
5. GRATE OPEN AREA 26.52 IN.²/LF



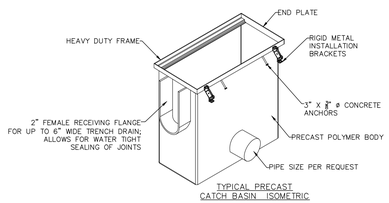
08C2401 DUCTILE IRON
ADA AND HEEL PROOF
GRATE

08C2401
ISOMETRIC VIEW

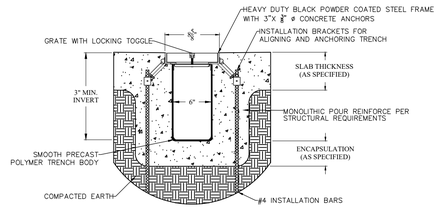


NOTES:
1. REINFORCE ACCORDING TO STRUCTURAL REQUIREMENTS
2. CATCH BASIN MUST BE ⅜" BELOW FINISHED CONCRETE GRADE

TYPICAL DTCBPF6-HDBP CATCH BASIN SECTION



TYPICAL PRECAST
CATCH BASIN ISOMETRIC



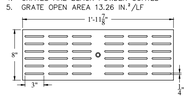
NOTES:
1. STANDARD SLOPE IS 0.5% UNLESS OTHERWISE SPECIFIED
2. REINFORCE ACCORDING TO STRUCTURAL REQUIREMENTS
3. TRENCH DRAIN MUST BE ⅜" BELOW FINISHED CONCRETE GRADE
4. STANDARD SECTION LENGTH IS 8'

TYPICAL DTRPF6-HDBPR15TSA (RADIUS) TRENCH SECTION

NOTES:
1. GRATE MATERIAL IS A36 CARBON STEEL
2. GRATES ARE LOAD CLASS C, EXCEEDS H-20 LOADING
3. GRATES ARE ADA COMPLIANT AND HEEL PROOF
4. GRATES ARE BLACK POWDER COATED
5. GRATE OPEN AREA 13.26 IN.²/LF

08CF248PC CARBON STEEL
ADA AND HEEL PROOF
GRATE

NOTES:
1. GRATE MATERIAL IS A36 CARBON STEEL
2. GRATES ARE LOAD CLASS E, EXCEEDS H-20 LOADING
3. GRATES ARE ADA COMPLIANT AND HEEL PROOF
4. GRATES ARE BLACK POWDER COATED
5. GRATE OPEN AREA 13.26 IN.²/LF



08CF248PE CARBON STEEL
ADA AND HEEL PROOF
GRATE

Trench Drain - Catch Basin
SECTION E
1' = 1' C4-201

Trench Drain
SECTION F
1' = 1' C4-201

Trench Drain - Catch Basin
PLAN VIEW G
1' = 1' C4-201

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BY _____
CITY OF PUYALLUP
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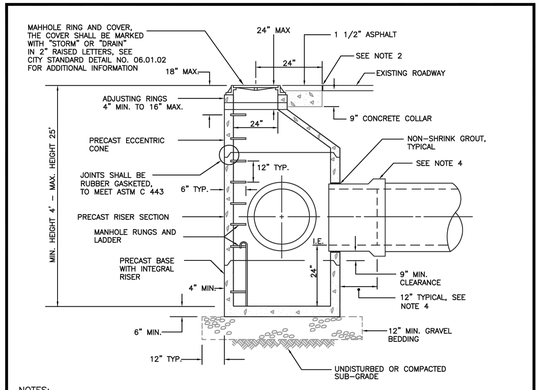
SHEET NAME
Stormwater Details

DWG.
C4-201
20 OF 27

Plotted by: JMJ Date: 18-Apr-24 11:02:46am
Path: z:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\
File: 1507012C-UT-STRM-DT.dwg



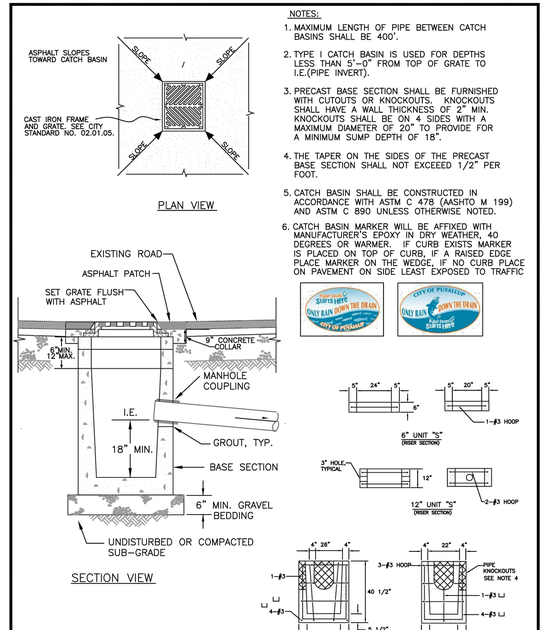
NOTES:

1. THE CONSTRUCTION AND INSTALLATION OF STORM SEWER MANHOLES SHALL CONFORM TO THE REQUIREMENTS OF WSDOT SPEC. SECTION 7-05 AND ASTM C 478.
2. THE FACE OF NEAT LINE CUTS IN EXISTING ASPHALT PAVEMENT SHALL BE TACK COATED AND THE TOP OF THE JOINT SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT.
3. PRECAST RISER SECTION OR PRECAST BASE WITH INTEGRAL RISER SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS WITH A MINIMUM WALL THICKNESS OF 2". THE SIZE OF THE KNOCKOUT SHALL BE EQUAL TO THE PIPE OUTER DIAMETER PLUS THE MANHOLE WALL THICKNESS. THE MAXIMUM HOLE SIZE IS 36" FOR A 48" MANHOLE, 42" FOR A 54" MANHOLE, 60" FOR A 72" MANHOLE, AND 84" FOR A 96" MANHOLE.
4. A FLEXIBLE GASKETED JOINT SHALL BE INSTALLED WITHIN 12" OF EACH CONNECTION TO A MANHOLE. THE CONNECTION OF CONCRETE OR DUCTILE IRON PIPE TO A MANHOLE SHALL BE CEMENT MORTARED. DUCTILE IRON PIPE SHALL BE SEALED WITH MASTIC AT THE CONNECTION POINT PRIOR TO BEING MORTARED. THE CONNECTION OF PVC PIPE TO A MANHOLE SHALL UTILIZE A MANHOLE COUPLING (SAND COLLAR) WITH A RUBBER GASKET.
5. THE MANHOLE COVER SHALL BE MARKED WITH "STORM" OR "DRAIN" IN 2 INCH RAISED LETTERS. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.03
6. MANHOLE STEP AND LADDER SHALL CONFORM TO CITY STANDARD DETAILS NO. 06.01.04 AND 06.01.05

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM SEWER MANHOLE

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
JIM ERWIN/SVOBODA	LINDA LIAN	COLLEEN HARRIS	Linda Lian	
FILE NAME: F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.01		DATE APPROVED: 09/01/1992	DATE REVISED: 04/1/2013	SCALE: NTS
				02.01.01



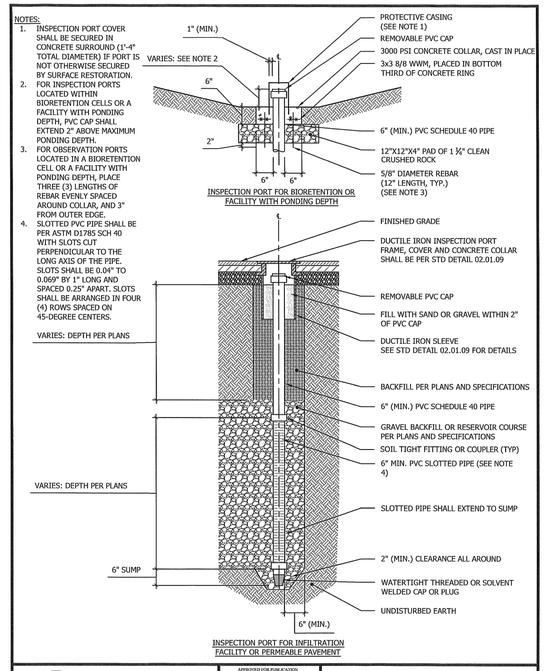
NOTES:

1. MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
2. TYPE I CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'-0" FROM TOP OF GRATE TO I.E.(PIPE INVERT).
3. PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUTS SHALL BE ON 4 SIDES WITH A MAXIMUM DIAMETER OF 20" TO PROVIDE FOR A MINIMUM SUMP DEPTH OF 18".
4. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION SHALL NOT EXCEEED 1/2" PER FOOT.
5. CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
6. CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OR WARMER. IF CURB EXISTS MARKER IS PLACED ON TOP OF CURB, IF A RAISED EDGE, PLACE MARKER ON THE WEDGE, IF NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN TYPE 1 (AREA DRAIN)

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LANSING	LINDA LIAN	COLLEEN HARRIS	XXXX	
FILE NAME: F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.02		DATE APPROVED: 09/01/1992	DATE REVISED: 06/01/2003	SCALE: NTS
				02.01.02

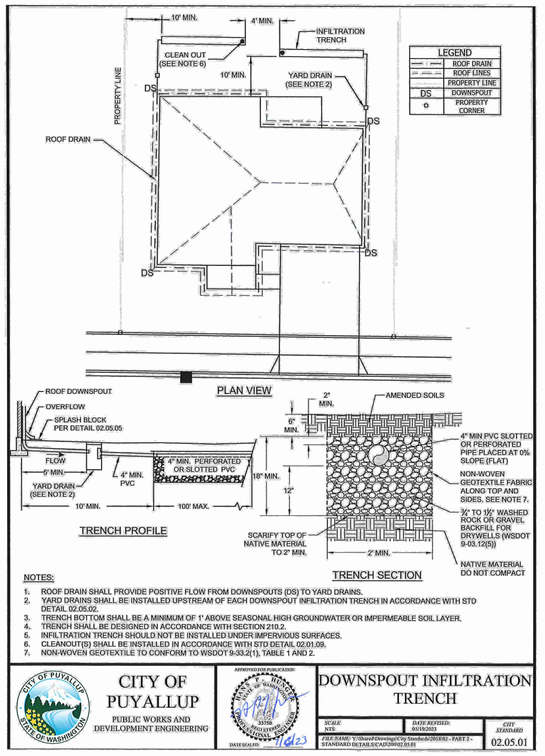


CITY OF PUYALLUP
PUBLIC WORKS AND DEVELOPMENT ENGINEERING

APPROVED FOR PUBLICATION — 23356 — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — DATE SEALED: 3/28/23

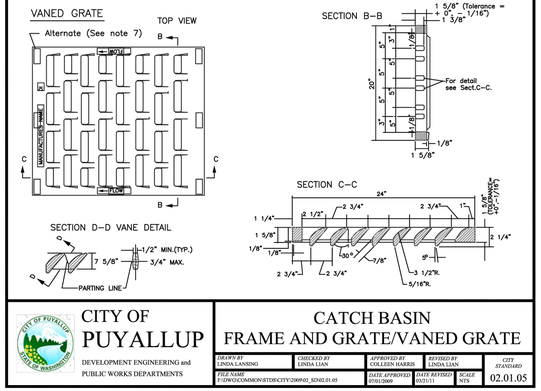
STORM DRAIN INSPECTION PORT

SCALE	DATE REVISED	CITY STANDARD
NTS	01/06/2023	02.01.10
FILE NAME: Y:\Shared\Drawings\City Standards\2018\02 - PART 2 - STANDARD DETAILS\CAD\2009\02.01.10		



NOTES:

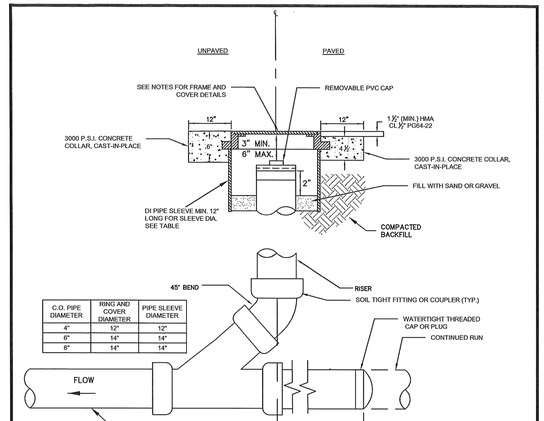
1. MATERIAL SHALL CONFORM TO SECTION 9-05.15 "METAL CASTINGS" OF THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" PUBLISHED BY THE STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER.
2. THE NAME OF THE MANUFACTURE AND DIRECTION OF FLOW SHALL BE EMBOSSED ON THE TOP SURFACE OF EACH GRATE. LETTERING TO BE RECESSED 1/16".
3. THE MATERIAL USED FOR THE GRATE SHALL BE DESIGNATED BY EMBASSING EITHER DI (FOR DUCTILE IRON) OR CS (FOR CAST STEEL) NEAR THE NAME OF THE MANUFACTURER.
4. DIMENSIONS SHALL HAVE A +/- 1/16" TOLERANCE, EXCEPT AS NOTED.
5. EDGES SHALL HAVE 1/8" RADIUS.
6. WELDING IS NOT PERMITTED.
7. AS AN ALTERNATE, 8 PADS 1 1/2" X 3/4" X 1/8", INTEGRALLY CAST WITH THE GRATE, MAY BE USED.



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN FRAME AND GRATE/VANED GRATE

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LANSING	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	
FILE NAME: F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.01.05		DATE APPROVED: 07/01/2009	DATE REVISED: 04/21/11	SCALE: NTS
				02.01.05



C.O. PIPE DIAMETER	RING AND COVER DIAMETER	PIPE SLEEVE DIAMETER
4"	12"	12"
6"	14"	14"
8"	14"	14"

NOTES:

1. CAST IRON COVER MARKED "FDCO" FOR FOOTING DRAINS OR "SDCO" FOR STORM LINES.
2. CAST IRON FRAME AND COVER SHALL BE DRILLED AND TAPPED WITH ¾"-11 NC STAINLESS STEEL TYPE 304 ALLEN HEAD BOLTS, 2" LONG.
3. BOLT-LOCKING CAST IRON FRAME AND COVER SHALL BE HS-20 RATED IF USED IN RIGHT-OF-WAY OR EASEMENTS.
4. 14" BOLT-LOCKING CAST IRON FRAME AND COVER SHALL BE EQUAL TO OLYMPIC FOUNDRY PART # M1060.
5. CAST IRON FRAME AND COVER SHALL BE FLUSH WITH FINISHED GRADE.
6. CLEANOUTS REQUIRED FOR EACH PIPE LENGTH GREATER THAN 100' AND FOR EACH 90 DEGREE BEND.
7. STORM PIPE BEDDING AND BACKFILL SHALL CONFORM TO STD DETAIL 06.01.01.
8. FINAL JOINTS SHALL BE SAW CUT, FACE OF CUT TACKED AND ALL JOINTS SEALED WITH SEALANT (AR4000W).
9. STORM DRAIN STUB SHALL EXTEND 10' BEYOND THE PROPERTY LINE OR EASEMENT LINE TO PREVENT DAMAGE AND MINIMIZE CONFLICT WITH FUTURE UTILITIES.
10. EACH CLEANOUT ASSEMBLY SHALL CONSIST OF: ONE CLEANOUT ADAPTOR, (HUB x FEMALE INSIDE PIPE THREAD, PVC SLIP IN), AND ONE CLEANOUT PLUG (MALE OUTSIDE THREAD WITH RAISED NUT, PVC).
11. FOR LANDSCAPED AREAS (OUTSIDE OF CITY ROW, EASEMENTS AND FACILITIES) A GREEN "CARSON" MODEL 910 YARD BOX MAY BE USED FOR C.O. PIPE DIA. LESS THAN OR EQUAL TO 6". YARD BOX SHALL BE FASTENED WITH ⅜" HEX BOLTS, THE COVER MARKED "STORM" AND FLUSH WITH FINISHED GRADE.

CITY OF PUYALLUP
PUBLIC WORKS AND DEVELOPMENT ENGINEERING

APPROVED FOR PUBLICATION — 23356 — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — DATE SEALED: 3/28/23

STORM DRAIN CLEANOUT

SCALE:	DATE REVISED:	CITY STANDARD
NTS	01/06/2023	02.01.09
FILE NAME: Y:\Shared\Drawings\City Standards\2018\02 - PART 2 - STANDARD DETAILS\CAD\2009\02.01.09		

NOTES:

1. ROOF DRAIN SHALL PROVIDE POSITIVE FLOW FROM DOWNSPOUTS (DS) TO YARD DRAINS.
2. YARD DRAINS SHALL BE INSTALLED UPSTREAM OF EACH DOWNSPOUT INFILTRATION TRENCH IN ACCORDANCE WITH STD DETAIL 02.05.02.
3. TRENCH BOTTOM SHALL BE A MINIMUM OF 1' ABOVE SEASONAL HIGH GROUNDWATER OR IMPERMEABLE SOIL LAYER.
4. TRENCH SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 210.2.
5. INFILTRATION TRENCH SHOULD NOT BE INSTALLED UNDER IMPERVIOUS SURFACES.
6. CLEANOUT(S) SHALL BE INSTALLED IN ACCORDANCE WITH STD DETAIL 02.01.09.
7. NON-WOVEN GEOTEXTILE TO CONFORM TO WSDOT 9-33.2(1), TABLE 1 AND 2.

CITY OF PUYALLUP
PUBLIC WORKS AND DEVELOPMENT ENGINEERING

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DOWNSPOUT INFILTRATION TRENCH

SCALE:	DATE REVISED:	CITY STANDARD
NTS	01/06/2023	02.05.01
FILE NAME: Y:\Shared\Drawings\City Standards\2018\02 - PART 2 - STANDARD DETAILS\CAD\2009\02.05.01		

Owner/Developer:
Washington State Fair
110 9th Ave SW
Puyallup, WA 98371
(253) 841-5356

Architect:
Jeff Brown Architecture
12181 C Street South
Tacoma, WA 98444
(253) 606-8324
Contact: Jeff Brown

Engineer:
JJ TEAM
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
WSF Gold Gate Redevelopment

Civil Construction Permit

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

JUSTIN M. JONES — STATE OF WASHINGTON — 41629 — REGISTERED PROFESSIONAL ENGINEER
04/18/2024

REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY: DM | DESIGN BY: JJ

PROJ.NO: 1507-012

DATE: April 18, 2024

SHEET NAME
Stormwater Details

DWG.
C4-202

21 OF 27

APPROVED

BY Laurel D. Hollingsworth

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 04/29/2024

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
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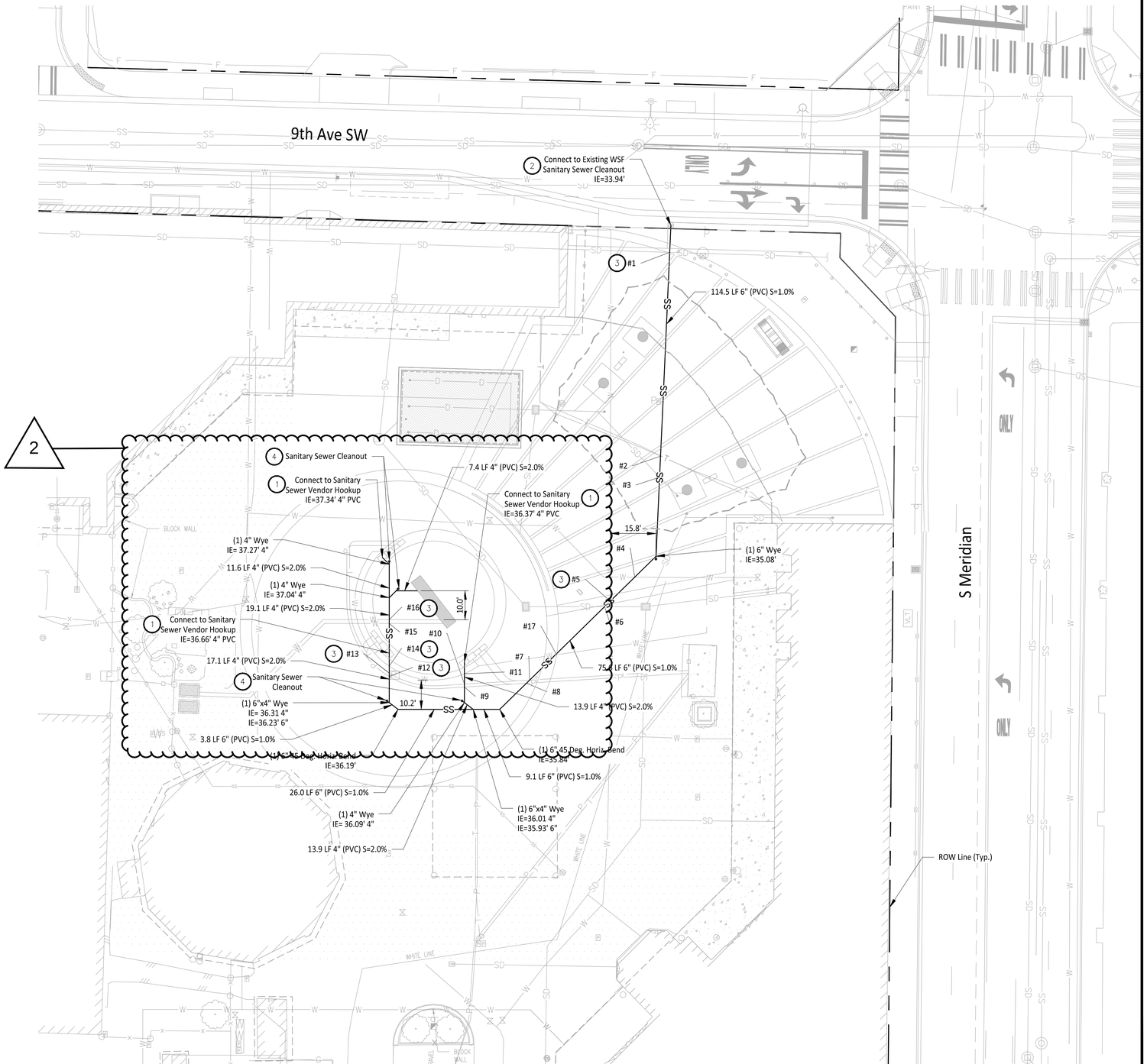
UTILITIES UNDERGROUND LOCATION CENTER



CONSTRUCTION NOTES

1. Domestic Water Service and Sanitary Sewer Vendor Hook Ups to be Installed per Detail A on Sheet C5-201
2. Install Commercial Side Sewer Connection per City of Puyallup Standard Detail 04.03.04 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 C5-201 for detail, and Sheet C6-201 for City of Puyallup Utility Crossing Standard Details.
4. Install Cleanout per City of Puyallup Standard Detail 04.03.04 on Sheet C4-201.

GENERAL NOTES

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

Utility Crossing Table

Intersection #	Above Crossing Line	Below Crossing Line	Material Vertical Seperation (ft
#1	36" Conc. Stormwater Pipe	6" PVC Sanitary Sewer Pipe	0.58
#2	Telecommunications Line	6" PVC Sanitary Sewer Pipe	3.64
#3	8" DI Stormwater Pipe	6" PVC Sanitary Sewer Pipe	3.16
#4	6" Cast Iron Water Pipe	6" PVC Sanitary Sewer Pipe	1.59
#5	6" Cast Iron Water Pipe	6" PVC Sanitary Sewer Pipe	1.17
#6	8" DI Stormwater Pipe	6" PVC Sanitary Sewer Pipe	2.10
#7	Telecommunications Line	6" PVC Sanitary Sewer Pipe	1.97
#8	Power Line	6" PVC Sanitary Sewer Pipe	1.95
#9	Power Line	6" PVC Sanitary Sewer Pipe	2.46
#10	Telecommunications Line	6" PVC Sanitary Sewer Pipe	2.44
#11	2" Poly Water Pipe	6" PVC Sanitary Sewer Pipe	2.00
#12	Power Line	6" PVC Sanitary Sewer Pipe	1.48
#13	Telecommunications Line	6" PVC Sanitary Sewer Pipe	1.45
#14	2" Poly Water Pipe	6" PVC Sanitary Sewer Pipe	1.56
#15	2" Poly Water Pipe	6" PVC Sanitary Sewer Pipe	1.26
#16	2" Poly Water Pipe	6" PVC Sanitary Sewer Pipe	1.23
#17	2" Poly Water Pipe	6" PVC Sanitary Sewer Pipe	1.37

0 20 40 FEET
1" = 20'

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 04/29/2024

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
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(206) 596-2020

Project:
WSF Gold Gate Redevelopment

Civil Construction Permit

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Engineering | Public Works
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JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED PROFESSIONAL ENGINEER
04/30/2024

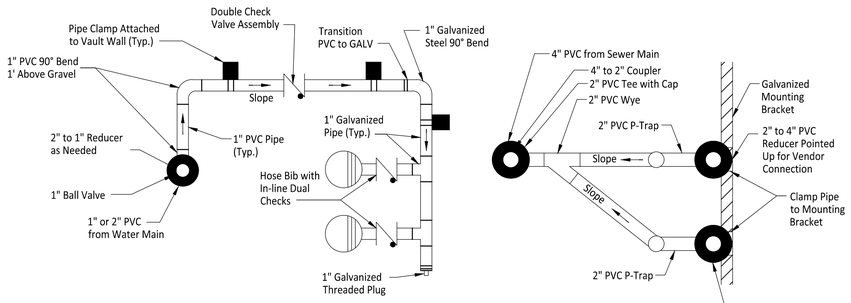
REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY: DM | DESIGN BY: JJ
PROJ. NO: 1507-012
DATE: April 30, 2024

SHEET NAME
Sanitary Sewer Plan

DWG.
C5-101
22 OF 27

File: 1507012C-UT-SSWR.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 30-Apr-24 1:20:44pm

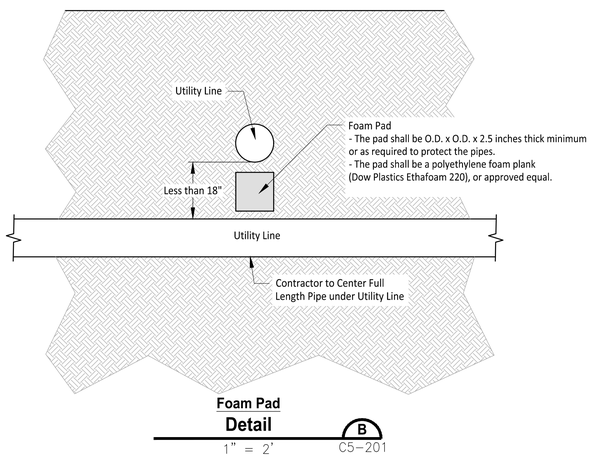


NOTES

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.

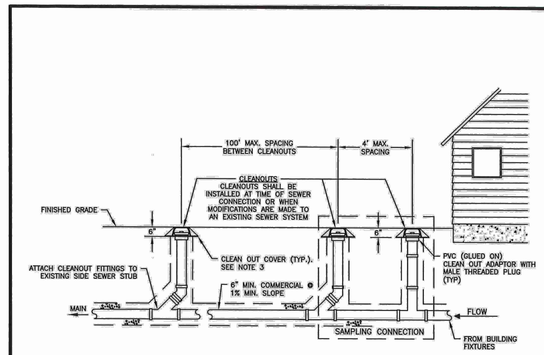
WATER & SEWER VENDOR CONNECTION DETAIL A

1" = 1' C5-201



Foam Pad Detail B

1" = 2' C5-201



NOTES:

1. SAMPLING CONNECTION SHALL BE INSTALLED OUTSIDE WITH UNOBSTRUCTED ACCESS AT ALL TIMES.
2. SAMPLING CONNECTION SHALL BE INSTALLED FOR EACH COMMERCIAL / RETAIL UNIT OR SPACE.
3. CLEAN OUT AND SAMPLING CONNECTION COVERS:
   A) FOR NON-VEHICULAR TRAFFIC INSTALLATIONS USE "CARSON" MODEL 910 GREEN YARD BOX WITH BOLT DOWN LID MARKED SEWER OR APPROVED EQUAL.
   B) FOR ASPHALT, GRAVEL, OR TRAFFIC INSTALLATIONS, SEE CITY STANDARD DETAIL NO. 04.03.05 FOR FRAME AND COVER SECTION.
4. EACH CLEANOUT ASSEMBLY SHALL CONSIST OF: ONE CLEANOUT ADAPTER, HUB x FEMALE. FIPT, PVC SI AND ONE CLEANOUT PLUG, MOPT WITH RAISED NUT, PVC SDR35.

CITY OF PUYALLUP
PUBLIC WORKS AND DEVELOPMENT ENGINEERING

APPROVED FOR PUBLICATION — DATE SIGNED: 7/6/23

COMMERCIAL SIDE SEWER CONNECTION WITH SAMPLING CONNECTION

(NOT TO SCALE) CITY STANDARD 04.03.04

FILE NAME: K:\SHARED\DRAWINGS\CITY STANDARDS\DETAILS - PART 2 - SEWER\04.03.04 COMMERCIAL.DWG

APPROVED

BY Lance D. Hollingsworth
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 04/29/2024

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
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AUSTIN M. JONES — STATE OF WASHINGTON — 41829 — REGISTERED PROFESSIONAL ENGINEER
04/18/2024

REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY: DM | DESIGN BY: JJ

PROJ.NO: 1507-012

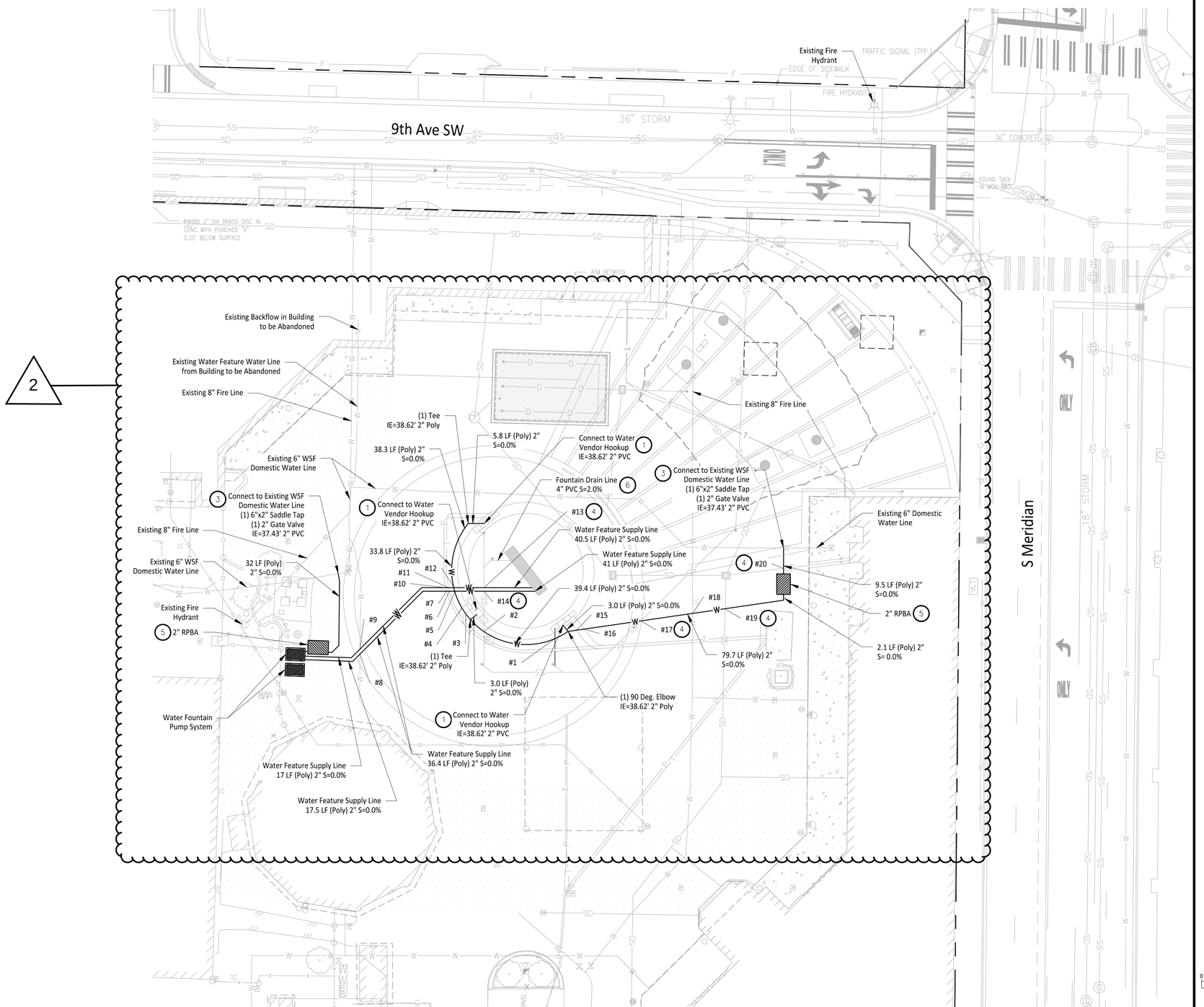
DATE: April 18, 2024

SHEET NAME
Sanitary Sewer Details

DWG.
C5-201

23 OF 27

File: 1507012C-UT-SSWR-DT.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 18-Apr-24 10:46:34am



CONSTRUCTION NOTES

1. Domestic Water Service and Sanitary Sewer Vendor Hook Ups to be Installed per Detail A on Sheet C6-201
2. Use Vertical Bends as Necessary to Install Water Pipe, Allowing Clearances from City of Puyallup Standard Details 03.01.03-1 & 03.01.03-2.
3. Wet Tap to be Installed for Connection to Existing WSF Domestic Water Line per Detail B on Sheet C6-201.
4. 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 C5-201 for detail, and Sheet C6-201 for City of Puyallup Utility Crossing Standard Details.
5. Reduced Pressure Backflow Assembly to be installed Per City of Puyallup Standard Detail 03.04.02 on Sheet C6-202.
6. Fountain to drain to Sewer

GENERAL NOTES

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

Utility Crossing Table

Intersection #	Above Crossing Line	Below Crossing Line	Material Vertical Seperation (ft)
#1	2" Poly Water Pipe	6" PVC Sanitary Sewer Pipe	2.00
#2	2" Poly Water Pipe	6" PVC Sanitary Sewer Pipe	1.56
#3	2" Poly Water Pipe	Power Line	0.50
#4	2" Poly Water Pipe	Telecommunications Line	0.50
#5	2" Poly Water Pipe	2" Poly Water Pipe	0.50
#6	Telecommunications Line	2" Poly Water Pipe	0.50
#7	Power Line	2" Poly Water Pipe	0.50
#8	6" Cast Iron Water Pipe	2" Poly Water Pipe	0.50
#9	8" DI Stormwater Pipe	2" Poly Water Pipe	0.50
#10	Power Line	2" Poly Water Pipe	0.50
#11	Telecommunications Line	2" Poly Water Pipe	0.50
#12	2" Poly Water Pipe	2" Poly Water Pipe	0.50
#13	2" Poly Water Pipe	6" PVC Sanitary Sewer Pipe	1.26
#14	2" Poly Water Pipe	6" PVC Sanitary Sewer Pipe	1.23
#15	Power Line	2" Poly Water Pipe	0.50
#16	Telecommunications Line	2" Poly Water Pipe	0.50
#17	2" Poly Water Pipe	6" PVC Sanitary Sewer Pipe	1.37
#18	2" Poly Water Pipe	8" DI Fire Water Line	0.50
#19	2" Poly Water Pipe	8" PVC Stormwater Line	0.66
#20	2" Poly Water Pipe	8" PVC Stormwater Line	1.22

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 04/29/2024

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0 20 40 FEET
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JUSTIN M. JONES STATE OF WASHINGTON 41829 REGISTERED PROFESSIONAL ENGINEER
04/30/2024

REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY: DM | DESIGN BY: JJ

PROJ. NO: 1507-012

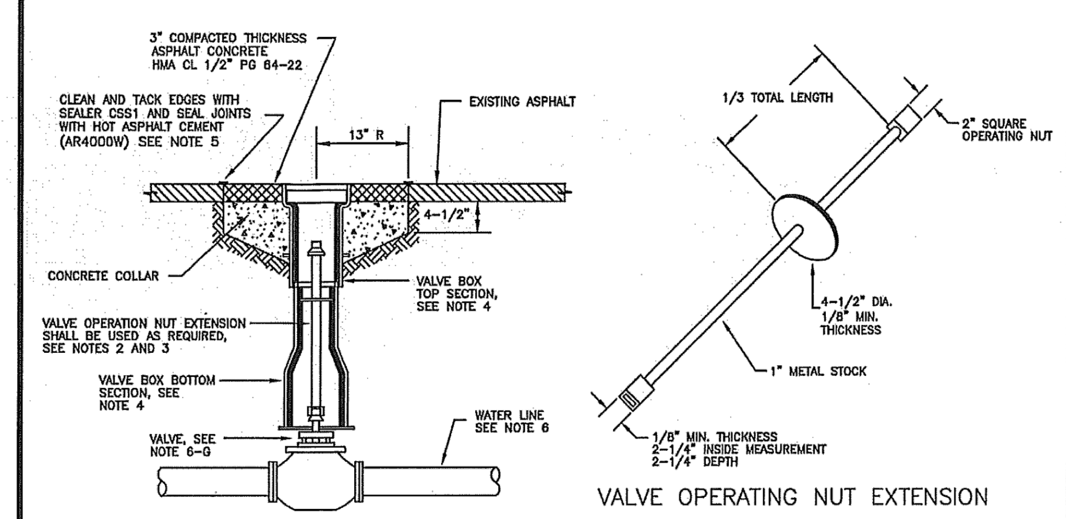
DATE: April 30, 2024

SHEET NAME
Water Plan

DWG.
C6-101

24 OF 27

File: 1507012C-UT-WTR.dwg Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: JMJ Date: 30-Apr-24 12:57:26pm



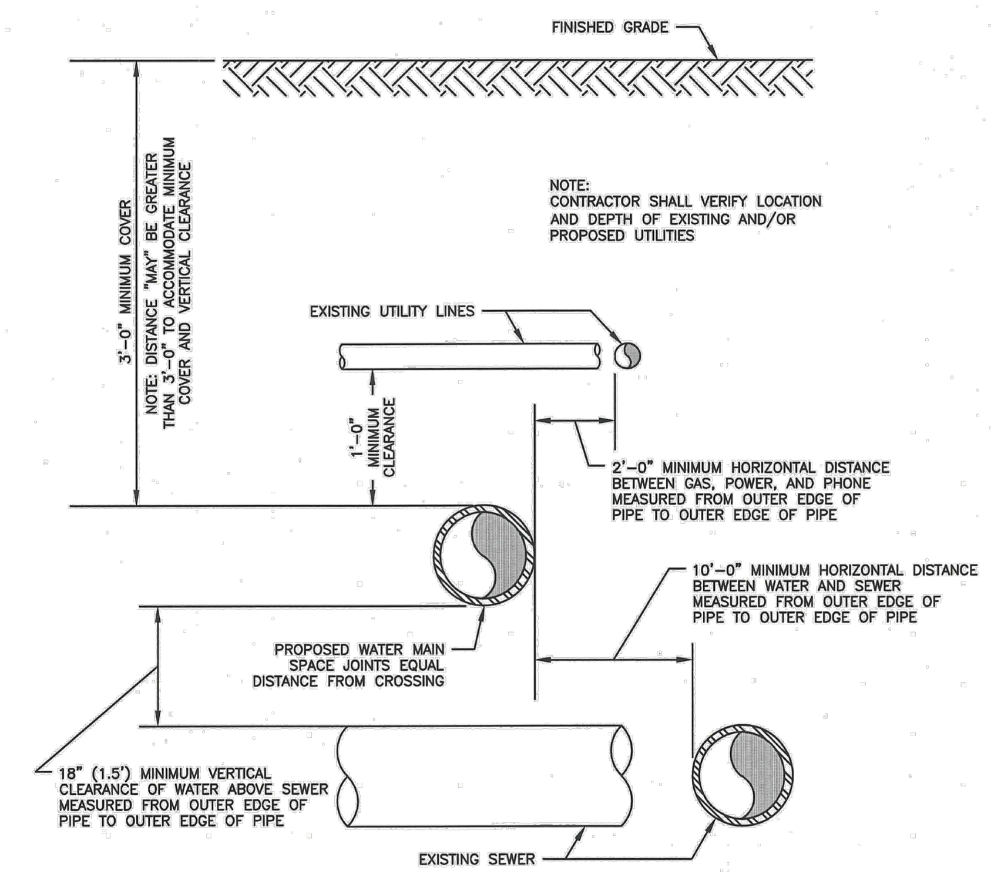
NOTES:

1. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
2. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FIVE (5) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A (MINIMUM OF TWO (2) FEET LONG, ONLY ONE EXTENSION TO BE USED PER VALVE. TOP OF EXTENSION SHALL BE 2 FEET 6 INCHES TO 3 FEET BELOW FINISHED GRATE.
3. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.
4. VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE VANRICH #940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER. VALVE BOX TOPS INSTALLED IN ARTERIAL ROADWAYS SHALL BE MANUFACTURED BY EAST JORDAN (EJ) IRONWORKS MODEL 8555 WITH VALVE BOX COVER MODEL 6800 OR APPROVED EQUAL.
5. NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
6. WATER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING:
   A. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C 151, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COAL TAR VARNISH. PIPE AND FITTINGS SHALL BE MORTOR LINED AND SHALL CONFORM TO AWWA C 104. THE THICKNESS OF THE LINING SHALL BE NOT LESS THAN 1/16" THICK FOR 3" TO 12" PIPE, 3/32" THICK FOR 14" TO 24" PIPE, AND 1/8" THICK FOR 30" TO 54" PIPE. THE CEMENT LINING SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 150.
   B. JOINTS SHALL BE TYTON PUSH-ON JOINTS, OR APPROVED EQUAL, OR MECHANICAL JOINT TYPE PER AWWA C 111 EXCEPT WHERE FLANGED JOINTS ARE REQUIRED TO CONNECT TO VALVES OR OTHER EQUIPMENT.
   C. BOLTS AND NUTS FOR BURIED FLANGES LOCATED OUTDOORS, ABOVE GROUND, OR IN OPEN VAULTS IN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A 193, GRADE B8M FOR BOLTS, AND ASTM A 194, GRADE 8M FOR NUTS. BOLTS AND NUTS LARGER THAN ONE AND ONE-QUARTER (1-1/4) INCHES SHALL BE STEEL, ASTM A 307, GRADE B, WITH CADMIUM PLATING, ASTM A 165, TYPE NS.
   D. BOLTS USED IN FLANGE INSTALLATION SETS SHALL CONFORM TO ASTM B 193, GRADE B7. NUTS SHALL COMPLY WITH ASTM A 194, GRADE 2H.
   E. PROVIDE A WASHER FOR EACH NUT, WHERE NEEDED. WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.
   F. ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 110 AND AWWA C 111.
   G. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR TEN (10) INCH MAINS AND SMALLER. BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN TEN (10) INCHES.
      1) RESILIENT SEATED WEDGE GATE VALVE: GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE MOUNTED, NON-RISING STEM, WITH TWO (2) INCH SQUARE NUT. COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT AND / OR FLANGED ENDS (6" VALVES ON FIRE HYDRANT LINES WHICH SHALL BE MECHANICAL JOINTS BY FLANGED). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
      2) BUTTERFLY VALVES: BUTTERFLY VALVES CONFORMING WITH AWWA C 504, CLASS 150 AND SHALL HAVE STANDARD AWWA TWO (2) INCH SQUARE NUT.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

WATER VALVES AND MAINS

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	DATE REVISED:	CITY STANDARD
JIM ERWIN-SVOBODA	LINDA LIAN	MARK PALMER	LINDA LIAN	11/17/16	03.01.01



SEE CITY STANDARD 03.01.03-2 FOR ADDITIONAL NOTES FOR THIS DETAIL

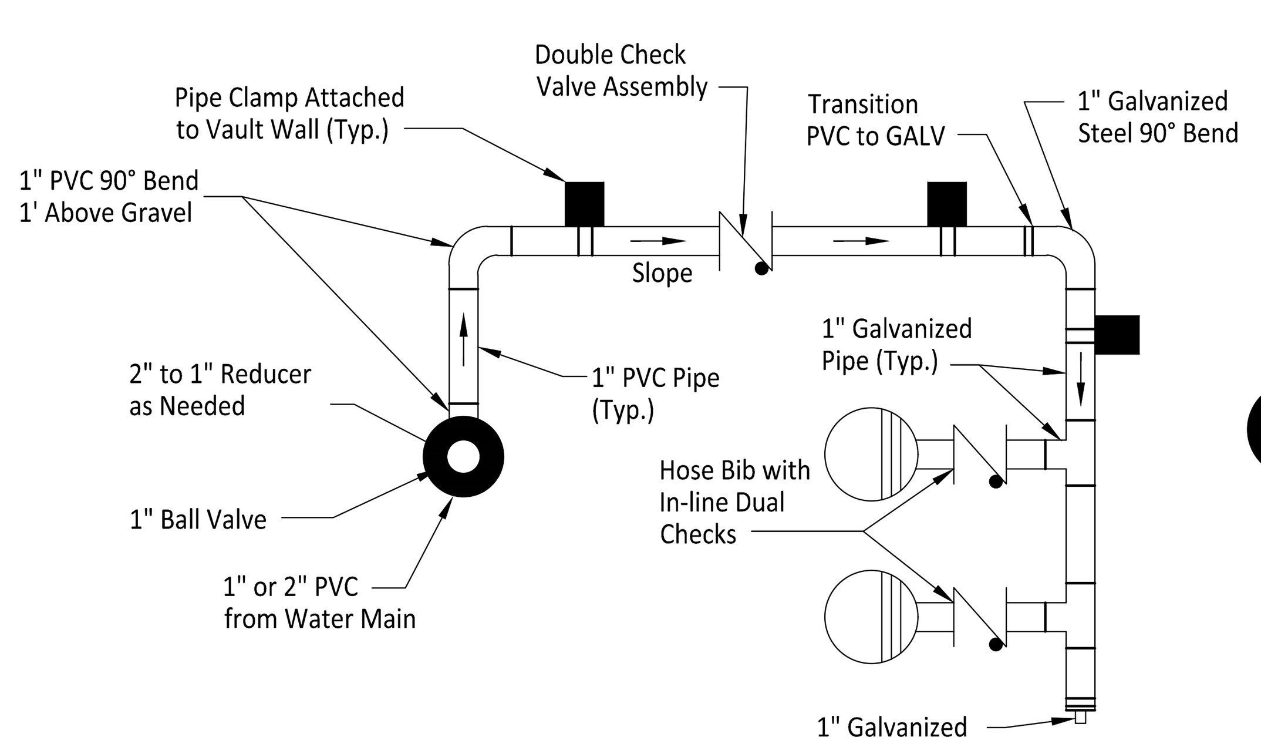
CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

APPROVED FOR PUBLICATION 2/5/2018

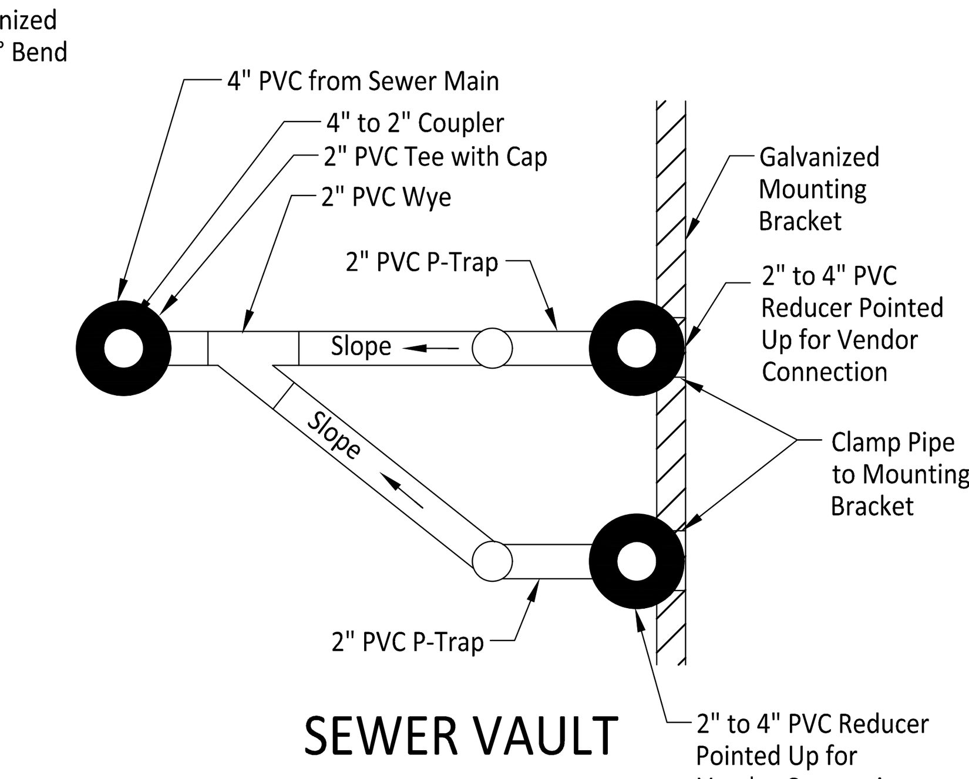
WATER MAIN CROSSING OTHER UTILITIES

(NOT TO SCALE)

CITY STANDARD 03.01.03-1



WATER VAULT

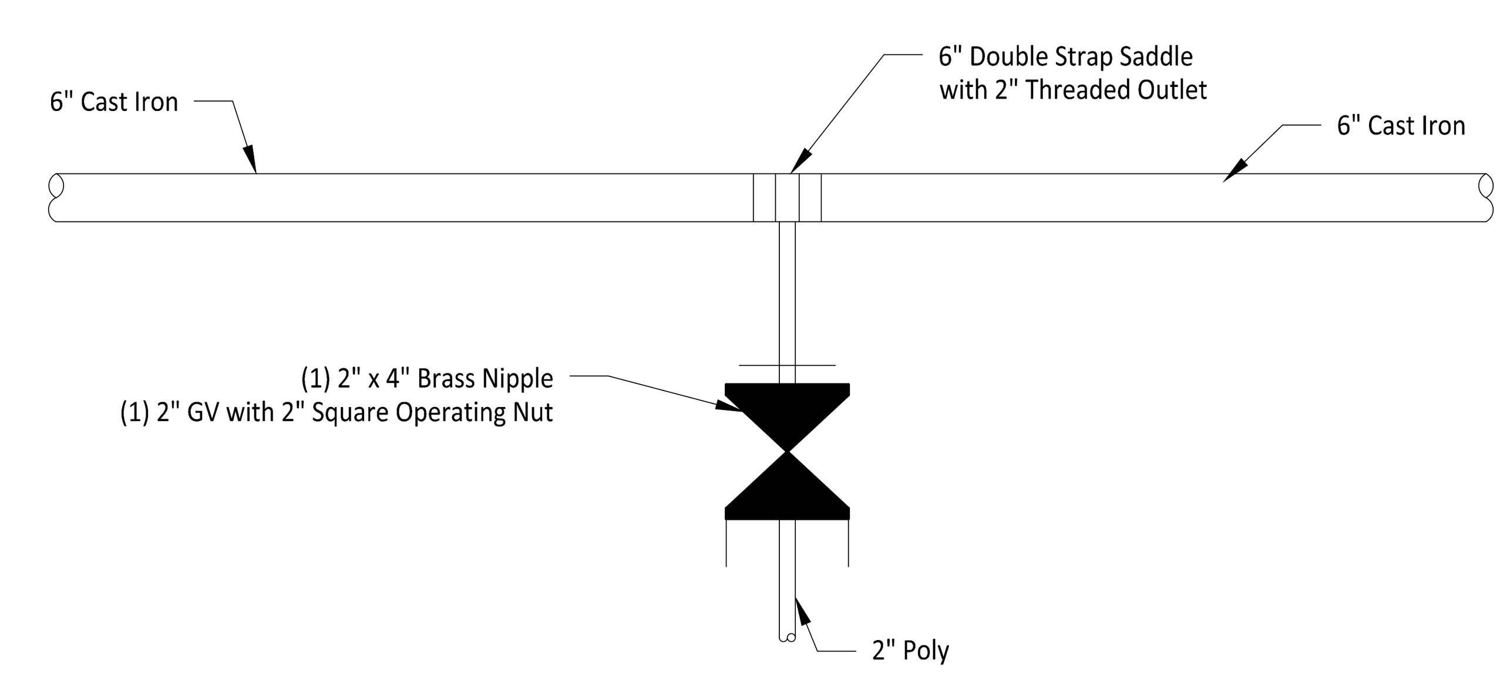


SEWER VAULT

NOTES

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.

WATER & SEWER VENDOR CONNECTION DETAIL (A)
1" = 1'   C6-201



WET TAP TO EXISTING MAIN DETAIL (B)
1" = 1'   C6-201

APPROVED
BY [signature]
CITY OF PUYALLUP DEVELOPMENT ENGINEERING
DATE 04/29/2024
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
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Project:
WSF Gold Gate Redevelopment

Civil Construction Permit

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
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Fire	Traffic

JUSTIN M. JONES STATE OF WASHINGTON 41829 REGISTERED PROFESSIONAL ENGINEER
04/18/2024

REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-18-24	City Comment Revision #2

DRAWN BY: DM   DESIGN BY: JJ
PROJ. NO: 1507-012
DATE: April 18, 2024
SHEET NAME: Water Details
DWG. C6-201
25 OF 27

File: 150701 2C-UT-WTR-DT.dwg   Path: J:\1507 - Washington State Fair\1507-012 Gold Gate\CAD\   Plotted by: JMJ   Date: 18-Apr-24 11:04:41am

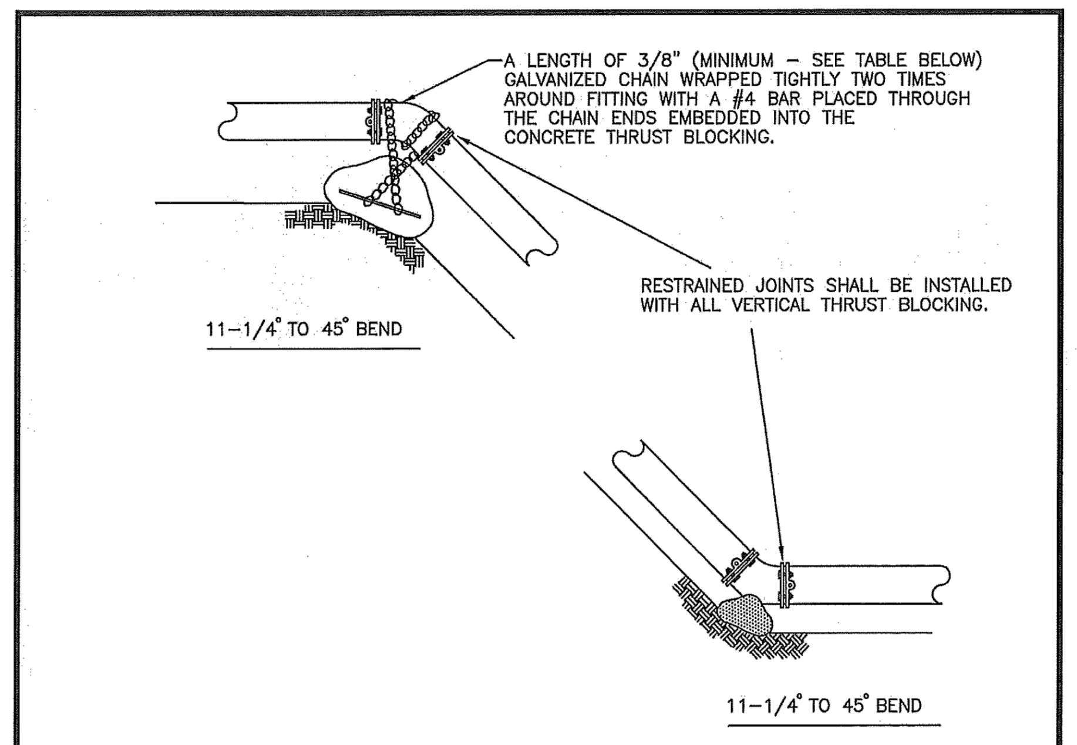


TABLE 1: CONCRETE BLOCKING FOR VERTICAL BENDS

PIPE DIA	TEST PRESSURE PSI	BEND ANGLE	CONCRETE VOLUME FT^3	CUBE SIZE FT	CHAIN SIZE	CHAIN EMBEDMENT
4"	200	11.25°	6	1.8	3/8"	17"
		22.5°	12	2.3		
		45°	22	2.8		
6"	200	11.25°	14	2.4	3/8"	17"
		22.5°	27	3.0		
		45°	50	3.7		
8"	200	11.25°	25	2.9	3/8"	17"
		22.5°	48	3.6		
		45°	89	4.5		
10"	200	11.25°	38	3.4	3/8"	17"
		22.5°	75	4.2		
		45°	139	5.2		
12"	200	11.25°	55	3.8	3/8"	17"
		22.5°	108	4.8		
		45°	200	5.8	1/2"	24"
14"	200	11.25°	75	4.2	3/8"	17"
		22.5°	147	5.3	1/2"	20"
		45°	272	6.5	1/2"	27"
16"	200	11.25°	98	4.6	3/8"	17"
		22.5°	192	5.8	1/2"	24"
		45°	355	7.1	3/4"	30"

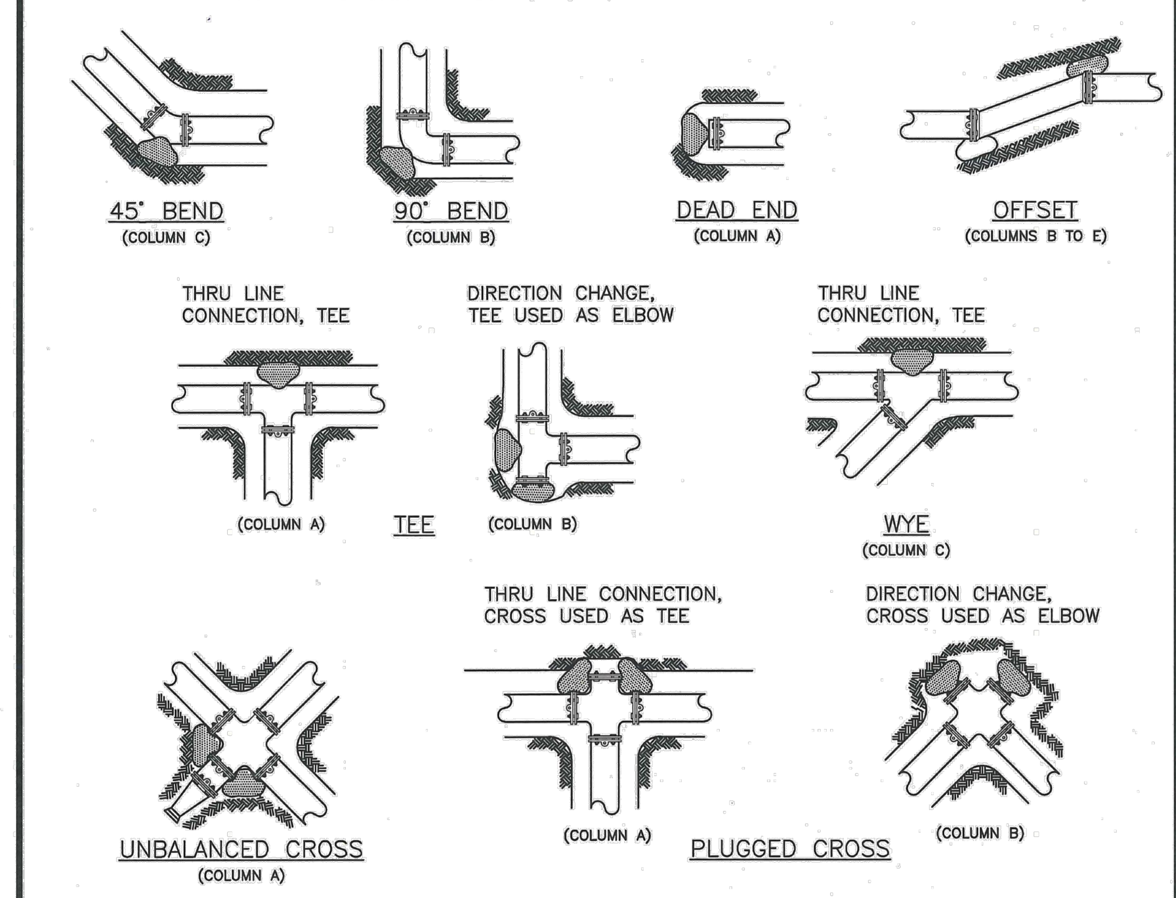
ALL NOTES ON CITY STANDARD 03.02.01–1 SHALL APPLY TO THIS DETAIL.
SEE CITY STANDARD 03.02.01–3 FOR ADDITIONAL INFORMATION.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

VERTICAL THRUST BLOCKING

CITY STANDARD 03.02.01-2

NOTE: DRAWINGS DEPICT BLOCK LOCATION, NOT SIZE.
FOR SIZE SEE NOTES 3, 4, 5, AND CITY STD. 03.02.01–3



NOTES:

1. THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN CONSTRUCTING THRUST BLOCKS:
   - A. BLOCKS MUST BE POURED OR PLACED AGAINST UNDISTURBED SOIL.
   - B. THE PIPE FITTING(S) AND BOLTS MUST BE ACCESSIBLE. WRAP IN PLASTIC BEFORE POURING CONCRETE BLOCKING.
   - C. CONCRETE SHOULD BE CURED FOR AT LEAST 5 DAYS AND SHOULD HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 DAYS.
   - D. RESTRAINED JOINTS SHALL BE INSTALLED, IN ADDITION TO CONCRETE THRUST BLOCKING.
   - E. BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE.
2. ALL PIPE SHALL BE PROPERLY BEDDED, SEE CITY OF PUYALLUP STANDARD BEDDING DETAIL NO. 06.01.01.
3. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
4. DIVIDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
5. BEARING SURFACE AREAS TO BE ADJUSTED BY THE ENGINEER FOR OTHER PRESSURE AND/OR SOIL CONDITIONS.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

APPROVED FOR PUBLICATION
DATE SEALED: 2/5/2019

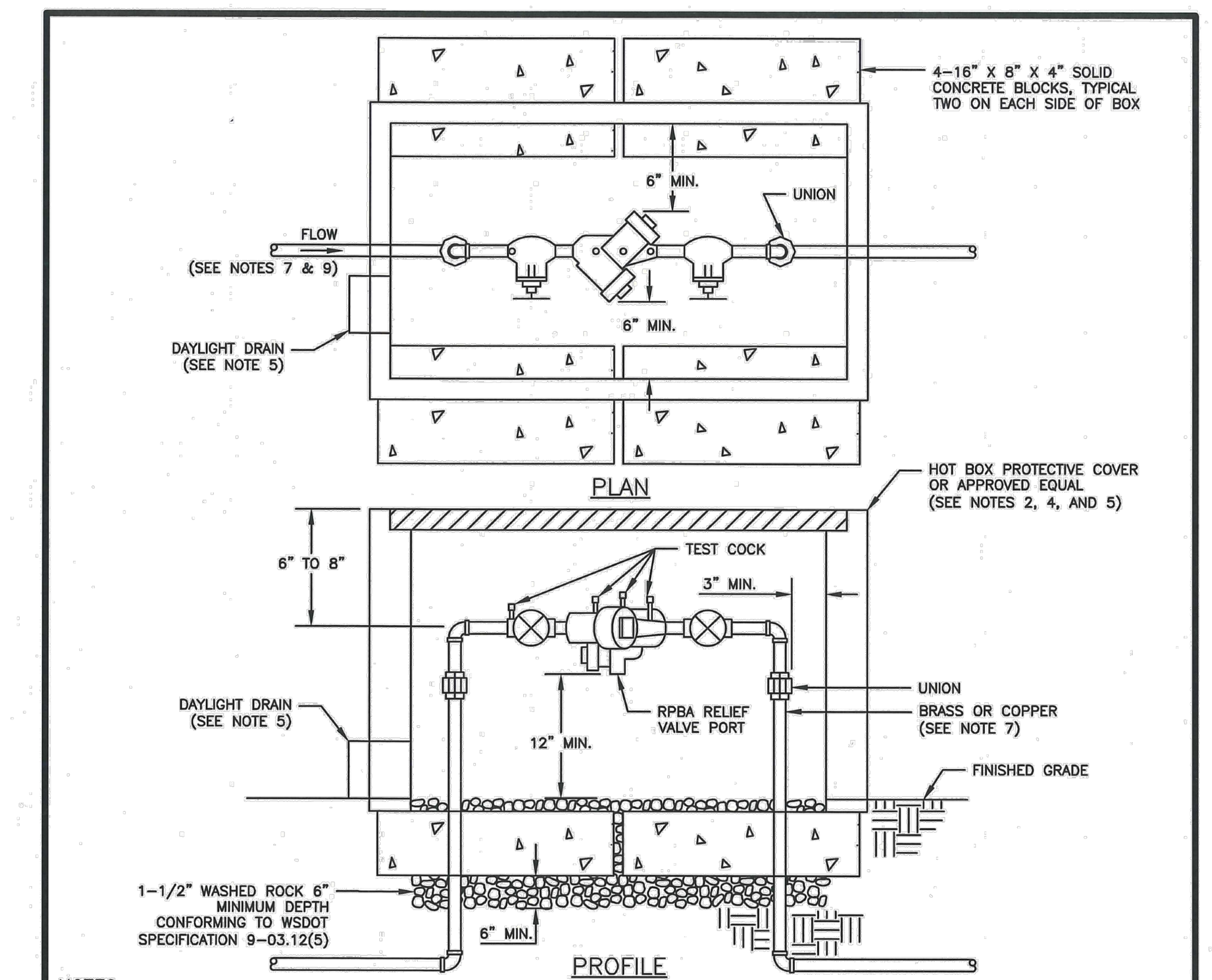
HORIZONTAL THRUST BLOCKING

(NOT TO SCALE)

CITY STANDARD 03.02.01-1

FILE NAME: F:\DRAWINGS\COMMON\STANDARDS\CITY STANDARDS\2018\02 - PART 2 - STANDARD DETAILS\CAD\300\03.02

2



NOTES:

1. BACKFLOW ASSEMBLY MUST BE SELECTED FROM WASHINGTON STATE DEPARTMENT OF HEALTH'S LIST OF BACKFLOW PREVENTION ASSEMBLIES APPROVED FOR INSTALLATION IN WASHINGTON STATE, LATEST EDITION.
2. THE RPBA SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. IT SHALL BE TESTED AFTER INSTALLATION, BY A WASHINGTON STATE CERTIFIED BACK–FLOW ASSEMBLY TESTER, TO INSURE ITS SATISFACTORY OPERATION BEFORE OCCUPANCY, AND ANNUALLY THEREAFTER. SEND TEST RESULTS TO: CITY OF PUYALLUP, WATER QUALITY OPERATIONS, 1100 39TH AVE SE, PUYALLUP, WA 98374.
3. THE RPBA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.
4. THE RPBA SHALL NOT BE INSTALLED IN A PIT BELOW GROUND LEVEL.
5. THE PROTECTIVE COVERING FOR THE RPBA, WHICH PROTECTS THE ASSEMBLY FROM FREEZING, MUST INCLUDE A DAYLIGHT DRAIN. THE DRAIN MUST BE INSTALLED ABOVE GROUND OR ABOVE THE MAXIMUM FLOOD LEVEL, WHICHEVER IS HIGHER. THE DRAIN MUST BE A MINIMUM OF TWICE THE SIZE OF THE RPBA, TO BE ABLE TO HANDLE THE VOLUME OF WATER THAT POTENTIALLY COULD BE DISCHARGED FROM THE RELIEF VALVE PORT.
6. THE RPBA SHALL BE SIZED EQUAL OR COMPARABLE TO THE METER SIZE.
7. USE ONLY BRASS OR COPPER BETWEEN THE METER AND THE BOTTOM VERTICAL 90 DEGREE BEND ON THE CUSTOMER'S SIDE OF THE RPBA.
8. DIELECTRIC UNIONS MUST BE USED TO SEPARATE DISSIMILAR MATERIALS.
9. THE RPBA SHOULD BE LOCATED IMMEDIATELY DOWN STREAM OF THE METER, AND SHOULD NOT BE INSTALLED INSIDE A BUILDING.
10. AN RPBA INSTALLED MORE THAN FIVE (5) FEET ABOVE FLOOR LEVEL MUST HAVE A PLATFORM UNDER IT FOR THE TESTER OR MAINTENANCE PERSON TO STAND ON. THE PLATFORM MUST BE OSHA APPROVED AND MEET ALL APPLICABLE SAFETY STANDARDS AND CODES.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

APPROVED FOR PUBLICATION
DATE SEALED: 2/5/2019

2" AND SMALLER REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION

(NOT TO SCALE)

CITY STANDARD 03.04.02

FILE NAME: F:\DRAWINGS\COMMON\STANDARDS\CITY STANDARDS\2018\02 - PART 2 - STANDARD DETAILS\CAD\300\03.04

APPROVED

BY ____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 04/29/2024

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Washington State Fair
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(253) 841-5356

Architect:
Jeff Brown Architecture
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Tacoma, WA 98444
(253) 606-8324
Contact: Jeff Brown

Engineer:
JYJ TEAM
Justin Jones, PE
905 Main St. Suite 200
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WSF Gold Gate Redevelopment

Civil Construction Permit

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Fire	Traffic

JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED PROFESSIONAL ENGINEER
03/04/2024

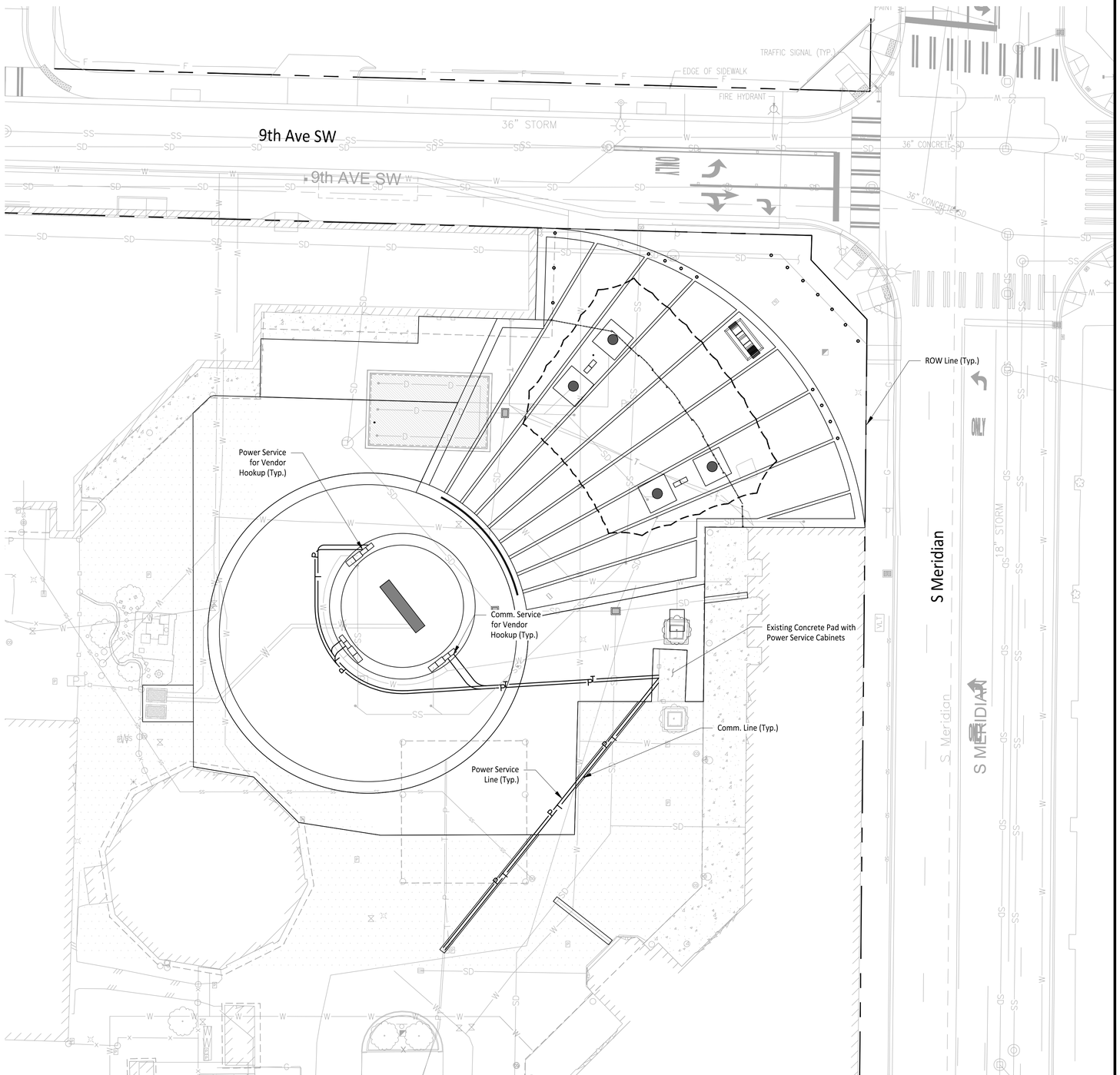
REV	DATE	DESCRIPTION
1	03-04-24	City Comment Revision #1
2	04-17-24	City Comment Revision #2

DRAWN BY: DM
DESIGN BY: JJ
PROJ. NO: 1507-012
DATE: March 04, 2024

SHEET NAME
Water Details

DWG.
C6-202

File: 150712C-UT-WTR-DT.dwg Path: J:\1507 – Washington State Fair\1507-012 Gold Gate\CAD\ Plotted by: MirissaOchoa Date: 17-Apr-24 2:58:40pm



LEGEND

———P——— Proposed Power Line

———T——— Proposed Communication Line

GENERAL NOTES

1. Proposed Power Services to be served from Existing Vaults on-site. Service Lines to maintain minimum 3' of cover from finish grade.
   1.1. Proposed Power Service = 320 LF.
2. Communication Data lines to be served from Existing Communication lines on-site. Communications lines to maintain minimum of 2' of cover from finish grade
   2.1. Proposed Communication Lines = 310 LF.

2

0 20 40 FEET
1" = 20'

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UTILITIES UNDERGROUND LOCATION CENTER

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2	04-18-24	City Comment Revision #2

DRAWN BY: DM | DESIGN BY: JJ

PROJ. NO. 1507-012

DATE: April 18, 2024

SHEET NAME
Joint Utility Trench Plan

DWG.
C7-101

27 OF 27

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