Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington

PROJECT DESCRIPTION
CONSTRUCTION OF NEW RESTAURANT BUILDING, EXPANSION OF EXISTING PARKING LOT WITH ASSOCIATED CIVIL IMPROVEMENTS.

SITE ADDRESS:
1115 E MAIN

PARCEL NUMBERS
7845100032, 042027-1-171 & -172

ZONING
CG

ENGINEER/SURVEYOR
AZURE GREEN CONSULTANTS
409 EAST PIONEER
PUYALLUP, WA 98372
PHONE: 253.770.3144

OWNER:
Puyallup TT, LLC
3401 Lind Ave SW
Renton, WA 98057
Phone 206.255.3633
rtonkin@tacotimenw.com

APPLICANT
Puyallup TT, LLC
3401 Lind Ave SW
Renton, WA 98057
Phone 206.255.3633
rtonkin@tacotimenw.com

DATUM
NAVD88

BENCHMARK
BM 2409 SW-5-16, EL. = 30.50 NGVD29
CONVERTED TO NAVD88 +3.49 PER VERTCON
CONVERTED ELEVATION = 33.99'

TOPOGRAPHIC INFORMATION
ONSITE AND FRONTAGE TOPOGRAPHICAL DATA ARE PER FIELD SURVEY PERFORMED BY AZURE GREEN CONSULTANTS IN APRIL 2022.

100-YEAR FLOOD
THE SITE IS LOCATED IN A FLOODPLAIN PER FEMA FIRM PANEL 53053C0329E EFFECTIVE MARCH 7, 2017.
100-YEAR FLOOD ELEVATION = 28.7 (NGVD29) = 30.2 (NAVD88)

BROKEN CURB, GUTTER, OR SIDEWALK
ANY PUBLIC CURB, GUTTER, OR SIDEWALK BROKEN NOW OR DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED PER CITY STANDARDS.

TRASH ENCLOSURE NOTE
A SEPARATE BUILDING PERMIT IS REQUIRED FOR THE TRASH ENCLOSURE.

GENERAL NOTES

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the 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 revisions 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 at (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.

SURVEY MONUMENTS
Contractor is responsible for protecting all survey monuments within the area of work. If it is necessary to disturb a survey monument, a permit must be requested in advance from the Department of Natural Resources. The developer must pay the cost of repairing or replacing the survey monument and is responsible for all contractors working for them. Reference WAC 332-120.

IMPERVIOUS AREAS

Developed	POC 1	POC 2
	Area (sf)	Area (sf)
Onsite		
New Roof	648	3941
New Paving	11758	1956
New Walk	720	2713
Offsite		
Replaced Driveway	0	859
Total New + Replaced Imp.	15126	9479
Total New + Replaced PGHS	11758	2825

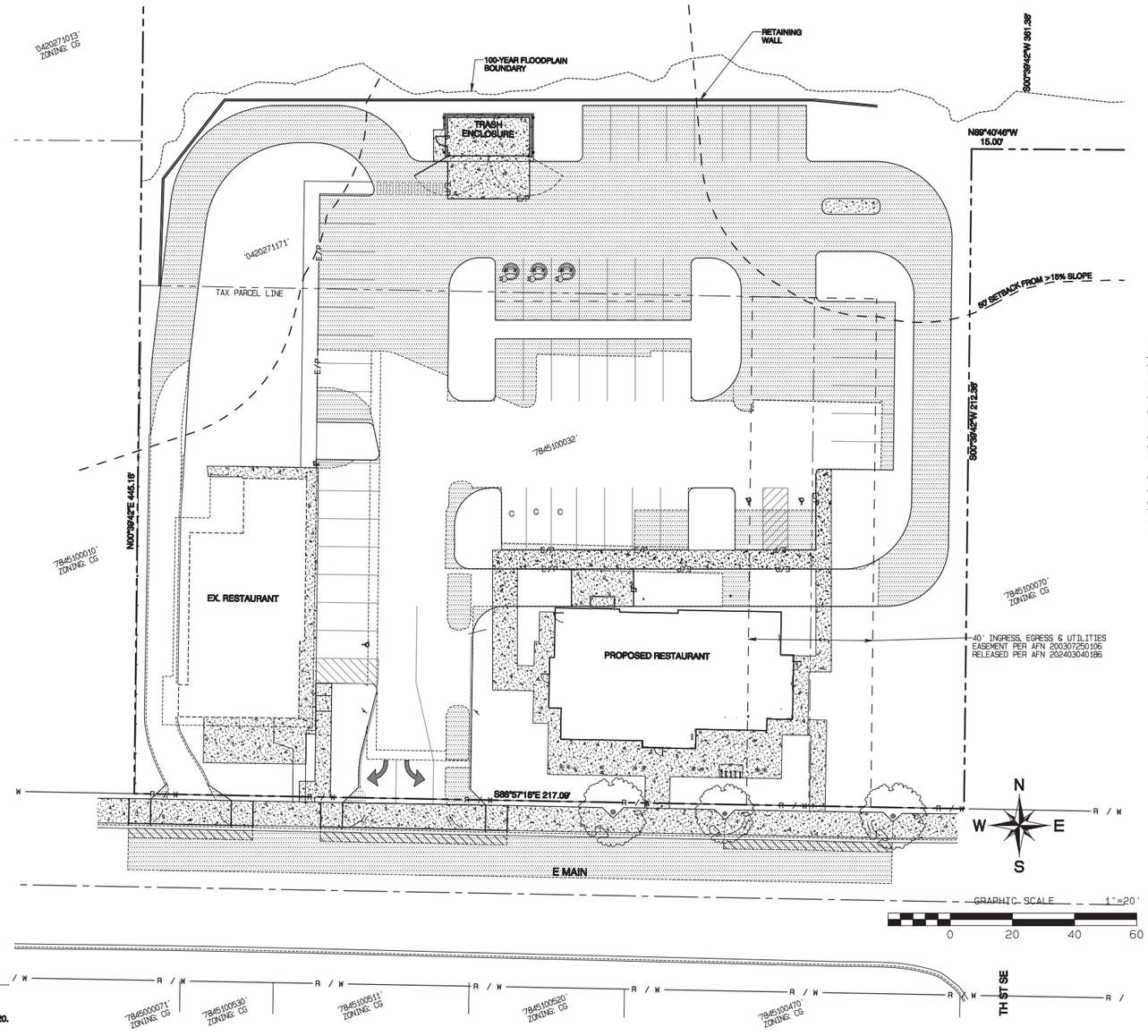
LEGEND

EXISTING	PROPOSED	
S S	S S	SANITARY SEWER LINE & MH
SD SD	SD SD	STORM LINE & TYPE 1 CB
		TYPE 2 CB/SDMH
W W	W W	WATER LINE
		FIRE HYDRANT
G G	G G	GAS LINE
R / W	R / W	RIGHT-OF-WAY LINE
		STREELIGHT
		POWER POLE W/GUY ANCHOR
		PROPERTY LINE
E/P	E/P	EDGE OF ASPHALT

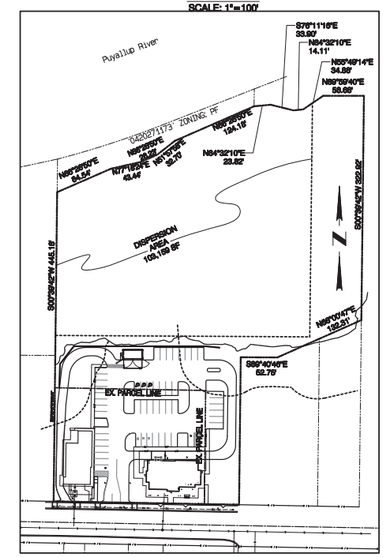
SHEET INDEX

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

CALL BEFORE YOU DIG
IT IS THE LAW
CALL 811
OR
800-424-5555



FULL SITE
SCALE: 1"=100'



EARTH WORK QUANTITIES
AREA WITHIN GRADING LIMITS = 0.9 ACRE
EXCAVATION (CUT) : 106 CY
EMBANKMENT (FILL) : 1,889 CY

THESE QUANTITIES ARE FOR THE ESTABLISHMENT OF CLEARING AND GRADING PERMIT ONLY AND SHALL NOT BE CONSTRUED TO INDICATE A BALANCED SITE.

GRADING VOLUMES ARE FROM EXISTING GRADE TO FINISHED GRADE AND MAKE NO ALLOWANCE FOR STRIPPINGS, GRAVEL, OR PAVING SECTION MATERIALS.

ADD'L EXCAVATION REQUIRED FOR INFILTRATION SYSTEMS: 119 CY

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING HIS OWN QUANTITIES FOR BIDDING PURPOSES AND SHALL NOT HOLD THE ENGINEER OR OWNER/DEVELOPER RESPONSIBLE FOR ANY ERRORS IN HIS BID QUANTITIES FOR EXCAVATION.

APPROVED
BY: _____
CITY OF PUYALLUP
DEVELOPMENT SERVICES
DATE: 12/13/2024

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 ENGINEERING SERVICES MANAGER.

VICINITY MAP
SCALE: 1"=1000'

SITE ADDRESS:
1115 E MAIN

PARCEL NUMBERS
784510-003-2, 042027-1-171 & -172

LEGAL DESCRIPTION
PARCEL 1 AND PARCEL 2, CITY OF PUYALLUP BOUNDARY LINE REVISION NO. 03-84-004, ACCORDING TO MAP RECORDED MAY 28, 2003, UNDER RECORDING NO. 200305285004, RECORDS OF PIERCE COUNTY AUDITOR.

SITUATE IN THE CITY OF PUYALLUP, COUNTY OF PIERCE, STATE OF WASHINGTON.

Section 27, Township 20 N, Range 4 E, Willamette Meridian

ROBERT A. TRAVITT — 43715 — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — 12/3/2024

BY	DESCRIPTION	DATE
1	Revised per City review.	1/9/24
2	Revised per City review, switch to permeable pavement.	6/18/24
3	Revised per City review	10/31/24
4	Revised to full dispersion.	12/3/24
5	Add to tree protects, clarify type 2, update infil. details.	
6		
7		
8		
9		
10		

JOB NO. 2935
DATE: July 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Rob Travitt
APPROVED BY: Paul Green

AZURE GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone 253.770.3144 fax 253.770.3142

Cover Sheet

Taco Time

Puyallup TT, LLC
3401 Lind Ave SW
Renton, WA 98057
Phone 206.255.3633
Fax rtonkin@tacotimenw.com

DRAWING
C-1
SHEET 1
OF 16

Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington

FIRE LANE SIGNS

NO PARKING	3 INCH LETTERS - CLASS C WIDTH 3 INCH LETTERS - CLASS B WIDTH
FIRE LANE	2 INCH LETTERS - CLASS B WIDTH 2 INCH LETTERS - CLASS C WIDTH

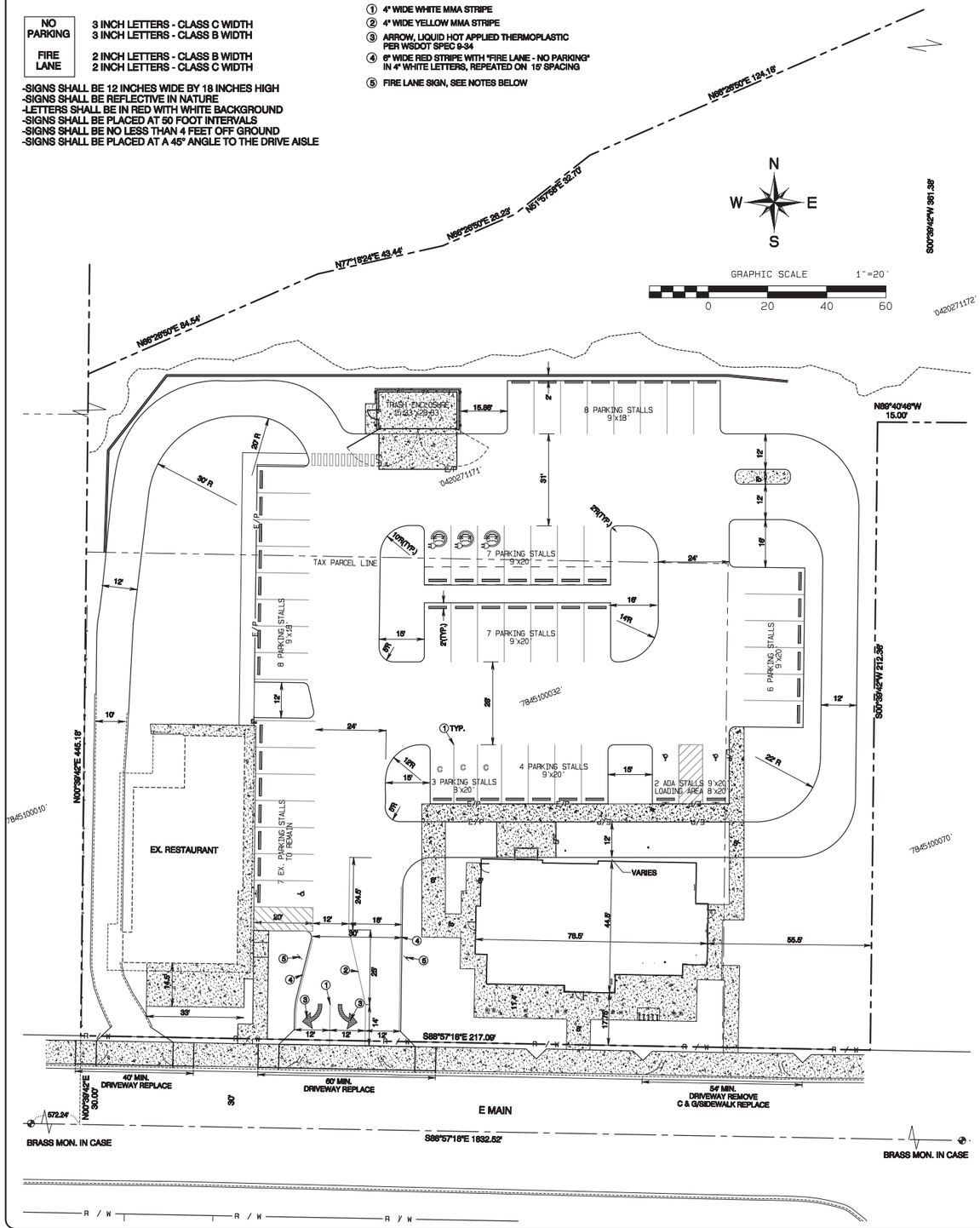
-SIGNS SHALL BE 12 INCHES WIDE BY 18 INCHES HIGH
-SIGNS SHALL BE REFLECTIVE IN NATURE
-LETTERS SHALL BE IN RED WITH WHITE BACKGROUND
-SIGNS SHALL BE PLACED AT 50 FOOT INTERVALS
-SIGNS SHALL BE NO LESS THAN 4 FEET OFF GROUND
-SIGNS SHALL BE PLACED AT A 45° ANGLE TO THE DRIVE AISLE

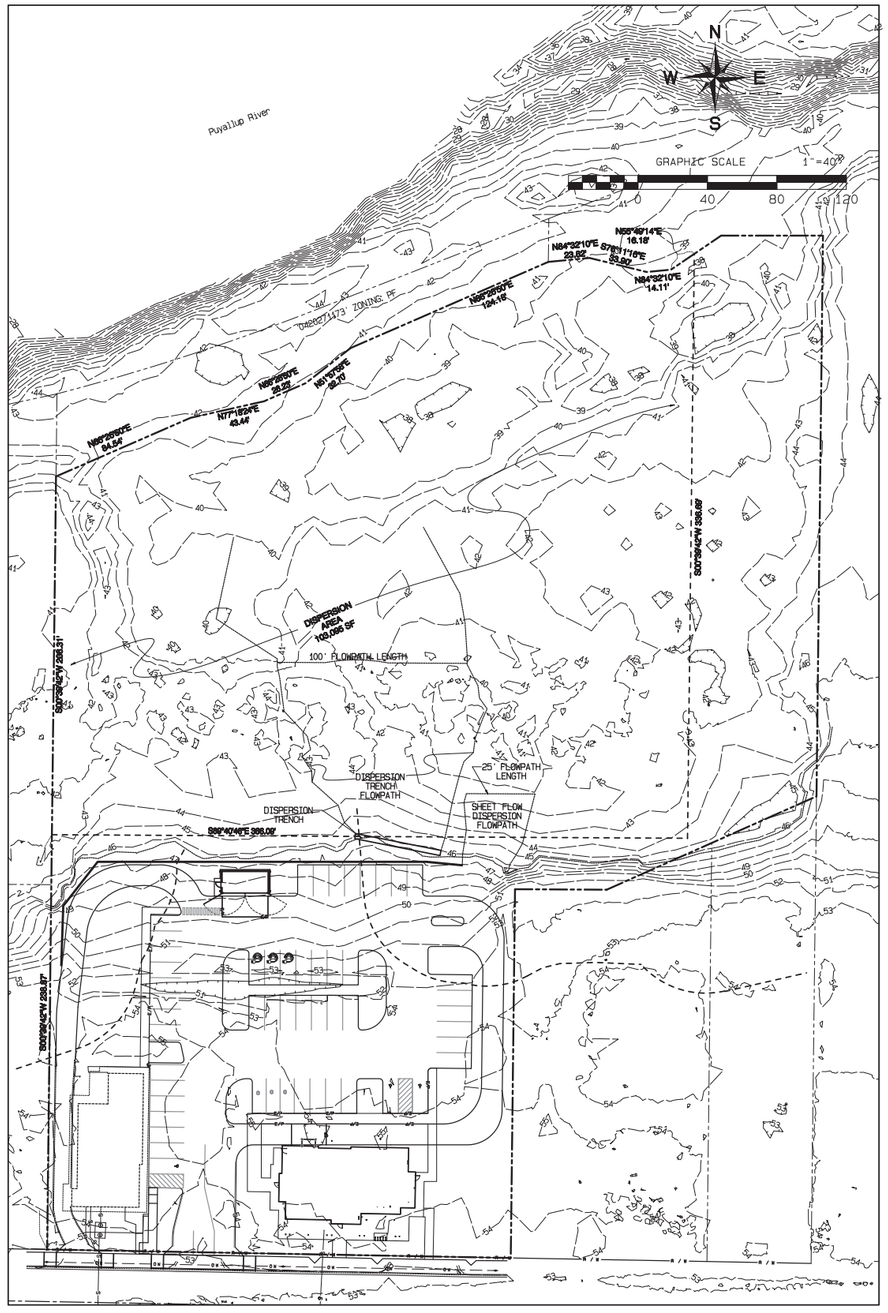
CHANNELIZATION CALLOUTS

① 4" WIDE WHITE MMA STRIPE
② 4" WIDE YELLOW MMA STRIPE
③ ARROW, LIQUID HOT APPLIED THERMOPLASTIC PER WSDOT SPEC 9-34
④ 6" WIDE RED STRIPE WITH "FIRE LANE - NO PARKING" IN 4" WHITE LETTERS, REPEATED ON 15' SPACING
⑤ FIRE LANE SIGN, SEE NOTES BELOW

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic





APPROVED

BY: _____
CITY OF PUYALLUP
DEVELOPMENT SERVICES

DATE: 12/13/2024

NOTE:

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11/2/2024
ROBERT A. TRAVITT
STATE OF WASHINGTON
43715
REGISTERED PROFESSIONAL ENGINEER

DIVISION	DATE
1 Revised per City review.	1/9/24
2 Revised per City review. Switch to permeable pavement.	6/18/24
3 Revised per City review.	9/17/24
4 Revised to full dispersion.	10/31/24
5	
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JOB NO: 2935
DATE: July 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Bill Lindquist
APPROVED BY: Paul Green

Exhibit

(Horizontal Control/Channelization Plan & Dispersion Area Exhibit)

Taco Time

Puyallup TT, LLC
3401 Lind Ave SW
Renton, WA 98057
Phone 206.255.3633
Fax rtonkin@tacotimenw.com

AZURE GREEN CONSULTANTS
+Landfalley +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3142

DRAWING
C-2
SHEET 2
OF 16

Project Desc:: Taco Time Path: P:\Jobs\2935 - Taco Time\Twin\taco 2024 1102.pro Plot Date/Time: 11/2/2024/5:17:47PM

Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington

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

LEGEND

- EX. 24" FORCE MAIN
- EX. SEWER LINE
- EX. STORM LINE
- EX. CB
- EX. WATER LINE
- EX. FIRE HYDRANT
- EX. GAS LINE
- EX. RIGHT-OF-WAY LINE
- EX. EXTRUDED CURB
- EX. CURB & GUTTER
- EX. PLAIN EDGE OF ASPHALT
- EX. POWER BOXES
- EX. POWER POLE WITH GUY ANCHOR
- EX. PHONE LINE
- EX. U.G. POWER LINE
- GRADING LIMITS
- SILT FENCE
- CONSTRUCTION FENCE
- EX. PARKING LOT LIGHT
- EX. TREE TO REMAIN-NUMBERED PER TABLE TO RIGHT
- EX. TREE TO REMOVE-NUMBERED PER TABLE TO RIGHT
- EX. STREETTREE TO REMAIN

EX. TREE TABLE

NO.	SPECIES	DBH
RETAIN		
1	DOUG-FIR	32"
REMOVE		
2	FREEMAN MAPLE	17
3	FREEMAN MAPLE	19
4	FREEMAN MAPLE	17
5	FREEMAN MAPLE	17
6	FREEMAN MAPLE	16
7	FREEMAN MAPLE	15
8	FREEMAN MAPLE	22
9	BLACK LOCUST	15

N / W / E / S

GRAPHIC SCALE 1"=20'
0 20 40 60

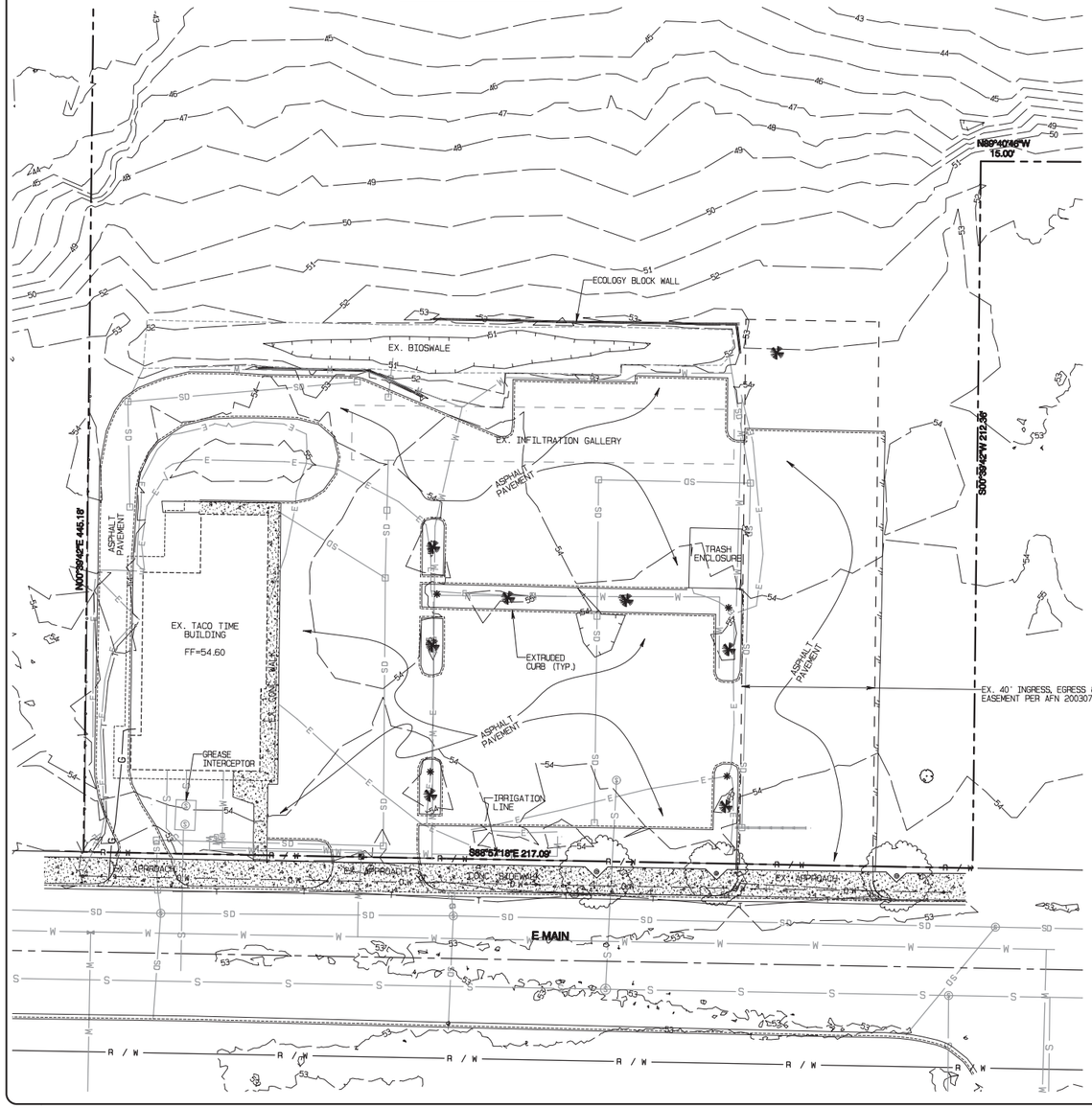
DEMO KEY NOTES

- (A) REMOVE DRIVEWAY APPROACH EXTEND REMOVAL TO FULL SIDEWALK PANEL BOTH ENDS
- (B) REMOVE APPROX. 10LF 8" SS PIPE
- (C) REMOVE 62LF OF STORM PIPE
- (D) REMOVE 8LF OF STORM PIPE
- (E) SAWCUT 2" DEPTH FOR GRIND
- (F) REMOVE AND REPLACE FULL SIDEWALK PANEL(S) AS NEEDED FOR WATER SERVICE
- (G) REMOVE SS MANHOLE
- (H) REMOVE CB
- (I) PLUG OPENING ON SOUTH SIDE OF CB
- (J) REMOVE TRENCH DRAIN
- (K) REMOVE 104LF OF STORM PIPE
- (L) PLUG OPENING ON SOUTH SIDE OF CB
- (M) INSTALL ORANGE CONSTRUCTION FENCING AROUND EXISTING AND PROPOSED INFILTRATION TRENCHES TO LIMIT CONSTRUCTION VEHICLE ACCESS
- (N) 2" SAWCUT ON TWLTL LINE FOR GRIND
- (O) EX. LIGHT TO BE REMOVED
- (P) SAWCUT & REMOVE PAVEMENT PER CITY STD 01.02.10, SHEET C-13
- (Q) REMOVE EXTRUDED CURB
- (R) INSTALL ORANGE CONSTRUCTION FENCING, 13' RAD. AROUND EXISTING FIR TREE. NO DISTURBANCE IN THIS AREA.
- (S) INSTALL ORANGE CONSTRUCTION FENCING, ALONG BACK OF WALK & MIN. 6' BEYOND EX. STREET TREES. NO DISTURBANCE IN THIS AREA.

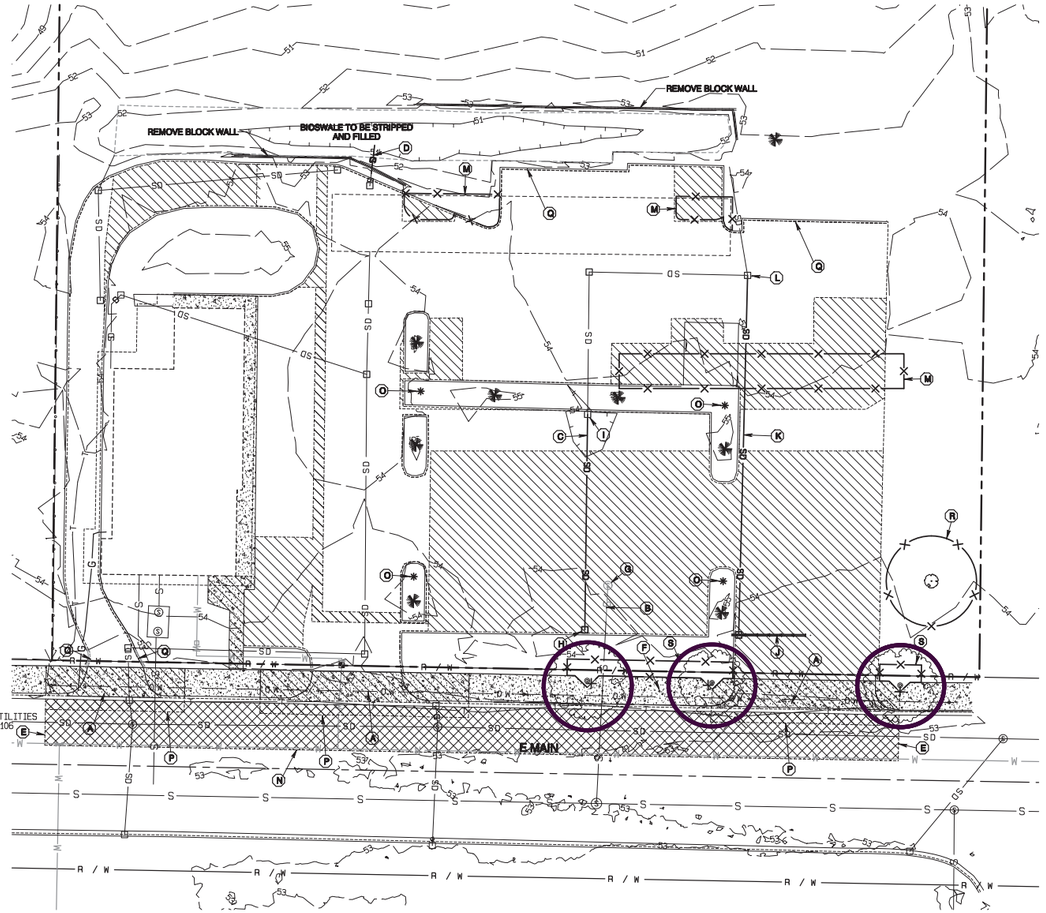
=SAWCUT AND REMOVE PAVEMENT OR SIDEWALK

=SAWCUT AND 2" GRIND FOR PAVEMENT OVERLAY

EXISTING CONDITIONS



DEMO PLAN



APPROVED

BY: CITY OF PUYALLUP DEVELOPMENT SERVICES

DATE: 12/13/2024

NOTE:

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CALL BEFORE YOU DIG
IT IS THE LAW
CALL 811
OR
800-424-5555

12/3/2024 ROBERT A. TRAVITT STATE OF WASHINGTON 43715 REGISTERED PROFESSIONAL ENGINEER

REVISION	DATE
1 Revised per City review.	1/9/24
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4 Revised to full dimension.	10/31/24
5 Add to tree protects, clarify type 2 update infil. details.	12/3/24
6	
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JOB NO: 2935
DATE: JULY 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Rob Travitt
APPROVED BY: Paul Green

AZURE GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3142

Existing Conditions & Demolition Plan

Taco Time

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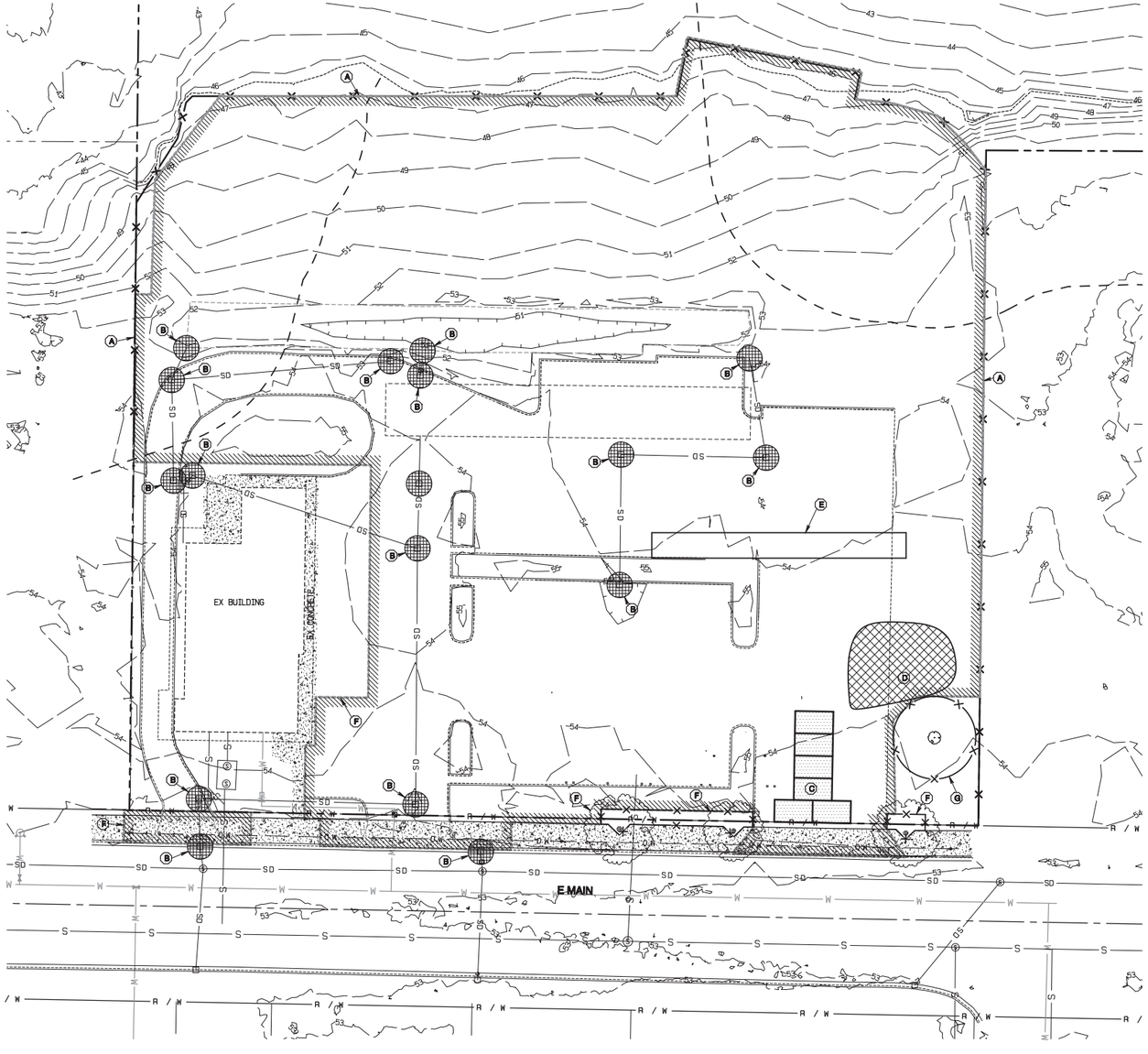
Renton, WA, 98057
Phone 206.255.3833
Fax rtonkin@tacottmenw.com

DRAWING
C-3
SHEET 3
OF 16

Project Desc:: Taco Time Path: F:\Jobs\2935 - Taco Time\Tmain\taco 2024 1203.pro Plot Date/Time: 12/3/2024/4:08:32PM

Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

N
W E
S

GRAPHIC SCALE 1"=20'
0 20 40 60

ESC KEY NOTES

- (A) INSTALL SILT FENCE PER STD 02.03.02, SHEET C-5
- (B) INSTALL BAG FILTER SEE DETAIL SHEET C-5
- (C) INSTALL TRACKOUT CONTROL MAT - FODS OR APPROVED EQUAL AT EXISTING APPROACH. SEE DETAIL SHEET C-5
- (D) STOCKPILE AREA
- (E) PROPOSED INFILTRATION AREA. MINIMIZE WORK IN THIS AREA TO LIMIT COMPACTION. PRIOR TO PLACING FABRIC, BOTTOM SHALL BE SCARIFIED A MIN. OF 4 INCHES IN DEPTH
- (F) INSTALL ORANGE CONSTRUCTION FENCING, ALONG BACK OF WALK & MIN. 6' BEYOND EX. STREET TREES. NO DISTURBANCE IN THIS AREA.
- (G) INSTALL ORANGE CONSTRUCTION FENCING, 15' RAD. AROUND EXISTING FIR TREE. NO DISTURBANCE IN THIS AREA.

▨ =CLEARING LIMITS/PROJECT LIMITS

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APPROVED
BY: CITY OF PUYALLUP DEVELOPMENT SERVICES
DATE: 12/13/2024

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ROBERT A. TRAVITT — STATE OF WASHINGTON — 43715 — REGISTERED PROFESSIONAL ENGINEER — 12/3/2024

BY/DSGN	DATE
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4 Revised to full dimension.	10/31/24
5 Add to tree protects, clarify type 2, update infil. details. C-3,4,4A-12 & 13.	12/3/24
6	
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JOB NO. 2935
DATE: JULY 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Jeff Hobart
APPROVED BY: Paul Green

AZURE GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3142

TESC Plan

Taco Time

Puyallup TT, LLC
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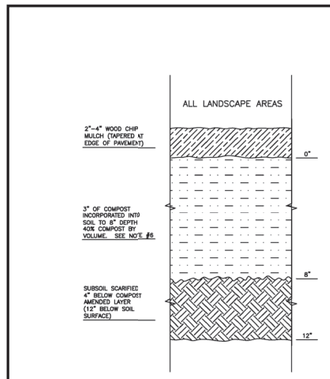
Renton, WA, 98057
Phone 206.255.3833
Fax rtonkin@tacotimenw.com

DRAWING
C-4
SHEET 4
OF 16

Project Desc.: Taco Time Path: F:\Jobs\2935 - Taco Time\Twin\taco 2024 1203.pro Plot Date/Time: 12/3/2024/4:08:56PM

Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington



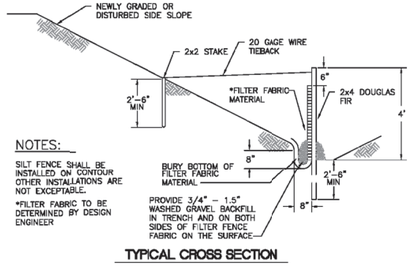
NOTES:

1. ALL SOIL AREAS DISTURBED OR COMPACTED DURING CONSTRUCTION, AND NOT COVERED BY BUILDINGS OR PAVEMENT, SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.
2. SUBSOIL SHOULD BE SCARIFIED (LOOSENED) 4 INCHES BELOW AMENDED LAYER, TO PRODUCE 12-INCH DEPTH OF UN-COMPACTED SOIL, EXCEPT WHERE SCARIFICATION WOULD DAMAGE TREE ROOTS OR AS DETERMINED BY THE ENGINEER. SEE NOTE BELOW REGARDING PLANTING STEPS FOR STREET TREES.
3. COMPOST SHALL BE TILLED IN TO 8 INCH DEPTH INTO EXISTING SOIL, OR PLACE 8 INCHES OF COMPOST-AMENDED SOIL, PER SOIL SPECIFICATION.
4. PLANTING BEDS SHALL RECEIVE 3 INCHES OF COMPOST TILLED IN TO 8-INCH DEPTH, OR MAY SUBSTITUTE 8" OF IMPORTED SOIL CONTAINING 35-40% COMPOST BY VOLUME. MULCH AFTER PLANTING, WITH 4 INCHES OF ARBORIST WOOD CHIP MULCH OR APPROVED EQUAL (6" OF LOOSE WOOD CHIPS AT THE TIME OF PLANTING TO ALLOW SETTLING TO 4").
5. SETBACKS: TO PREVENT UNEVEN SETTLING, DO NOT COMPOST-AMEND SOILS WITHIN 3 FEET OF UTILITY INFRASTRUCTURES (POLES, VAULTS, METERS ETC.). WITHIN ONE FOOT OF PAVEMENT EDGE, CURBS AND SIDEWALKS SOIL SHOULD BE COMPACTED TO APPROXIMATELY 95% PROCTOR TO ENSURE A FIRM SURFACE.
6. SEE SECTION 8.2(D) OF THE VMS FOR SOIL AMENDMENT AND INSTRUCTION PROCEDURES FOR STREET TREE PLANTER STRIPS. ALL STREET TREE PLANTER STRIPS SHALL RECEIVE 40% COMPOST AMENDED SOIL TO THE FULL DEPTH OF THE STREET TREE ROOTBALL.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SOIL AMENDMENT AND DEPTH

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LUKENS	CHRIS WALLS	XXXX	XXXX	01.02.08a
FILE NAME: F:\PWCOMMON\STDS\CITYSTDS\STD01.02.18		DATE APPROVED: 08/01/2015	DATE REVISED: XX/XX/XX	SCALE: NO.

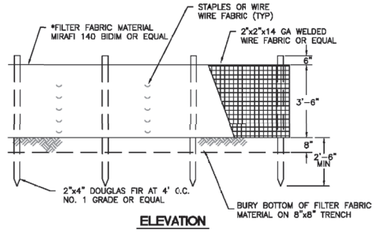


NOTES:

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

*FILTER FABRIC TO BE DETERMINED BY DESIGN ENGINEER

TYPICAL CROSS SECTION



ELEVATION

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SILTATION FENCE

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LUKENS	COLLEEN HASSE	XXXX	XXXX	02.03.02
FILE NAME: F:\PWCOMMON\STDS\CITYSTDS\MISC_DWGS\STD.02.03		DATE APPROVED: 08/01/2015	DATE REVISED: 08/01/2015	SCALE: NTS

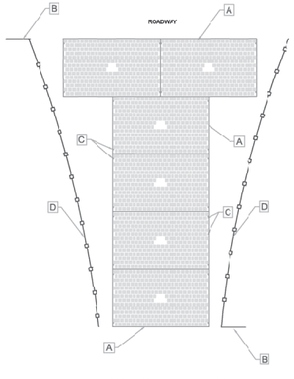
FODS TRACKOUT CONTRO_ SYSTEM INSTALLATION GUIDE

FODS

THE PURPOSE AND DESIGN OF THE FODS TRACKOUT CONTROL SYSTEM IS TO EFFECTIVELY REMOVE MOS" SEDIMENT FROM VEHICLE TIRES AS THEY EXIT A DISTURBED LAND AREA ONTO A PAVED STREET. THIS MANUAL IS A PLATFORM FROM WHICH TO INSTALL A FODS TRACKOUT CONTROL SYSTEM (NOTE: THIS IS NOT A ONE SIZE FITS ALL GUIDE.) THE INSTALLATION MAY NEED TO BE MODIFIED TO MEET THE EXISTING CONDITIONS, EXPECTATIONS, OR DEMANDS OF A PARTICULAR SITE. THIS IS A GUIDELINE. ULTIMATELY THE FODS TRACKOUT CONTROL SYSTEM SHOULD BE INSTALLED SAFELY WITH PROPER SIGNAGING AND SIGNS PLACED AT THE ENTRANCE AND EXIT TO CAUTION USERS AND OTHERS.

KEY NOTES

A. FODS TRACKOUT CONTROL SYSTEM MAT.
B. FODS SAFETY SIGN
C. ANCHOR POINT.
D. SILT OR ORANGE CONSTRUCTION FENCE.



TYPICAL ONE-LANE LAYOUT

INSTALLATION:

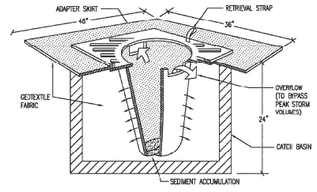
1. THE SITE WHERE THE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED SHOULD CORRESPOND TO BEST MANAGEMENT PRACTICES AS MUCH AS POSSIBLE. THE SITE WHERE FODS TRACKOUT CONTROL SYSTEM IS PLACED SHOULD ALSO MEET OR EXCEED THE LOCAL JURISDICTION OR STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.
2. CALL FOR UTILITY LOCATES 3BUSINESS DAYS IN ADVANCE OF THE OF FODS TRACKOUT CONTROL SYSTEM INSTALLATION FOR THE MARKING OF UNDERGROUND UTILITIES. CALL THE UTILITY NOTIFICATION CENTER AT 811.
3. ONCE THE SITE IS ESTABLISHED WHERE FODS TRACKOUT CONTROL SYSTEM IS TO BE PLACED, ANY EXCESSIVE UNEVEN TERRAIN SHOULD BE LEVELED OUT OR REMOVED SUCH AS LARGE ROCKS, LANDSCAPING MATERIALS, OR SUDDEN ABRUPT CHANGES IN ELEVATION.
4. THE INDIVIDUAL MATS CAN START TO BE PLACED INTO POSITION. THE FIRST MAT SHOULD BE PLACED NEXT TO THE CLOSEST POINT OF EGRESS. THIS WILL ENSURE THAT THE VEHICLE WILL EXIT STRAIGHT FROM THE SITE ONTO THE PAVED SURFACE.
8. AFTER THE FIRST MAT IS PLACED DOWN IN THE PROPER LOCATION, MATS SHOULD BE ANCHORED TO PREVENT THE POTENTIAL MOVEMENT WHILE THE ADJOINING MATS ARE INSTALLED. ANCHORS SHOULD BE PLACED AT EVERY ANCHOR POINT (IF FEASIBLE) TO HELP MAINTAIN THE MAT IN ITS CURRENT POSITION.
9. AFTER THE FIRST MAT IS ANCHORED IN ITS PROPER PLACE, AN H BRACKET SHOULD BE PLACED AT THE END OF THE FIRST MAT BEFORE ANOTHER MAT IS PLACED ADJACENT TO (BELOW) IT.
10. ONCE THE SECOND MAT IS PLACED ADJACENT TO THE FIRST MAT, MAKE SURE THE H BRACKET IS CORRECTLY SITUATED BETWEEN THE TWO MATS, AND SLIDE MATS TOGETHER.
11. NEXT THE CONNECTOR STRAPS SHOULD BE INSTALLED TO CONNECT THE TWO MATS TOGETHER.
12. UPON PLACEMENT OF EACH NEW MAT IN THE SYSTEM, THAT MAT SHOULD BE ANCHORED AT EVERY ANCHOR POINT TO HELP STABILIZE THE MAT AND ENSURE THE SYSTEM IS CONTINUOUS WITH NO GAPS IN BETWEEN THE MATS.
13. SUCCESSIVE MATS CAN THEN BE PLACED TO CREATE THE FODS TRACKOUT CONTROL SYSTEM REPEATING THE ABOVE STEPS.

USE AND MAINTENANCE

1. VEHICLES SHOULD TRAVEL DOWN THE LENGTH OF THE TRACKOUT CONTROL SYSTEM AND NOT CUT ACROSS THE MATS.
2. DRIVERS SHOULD TURN THE WHEEL OF THEIR VEHICLES SUCH THAT THE VEHICLE WILL MAKE A SHALLOW S-TURN ROUTE DOWN THE LENGTH OF THE FODS TRACKOUT CONTROL SYSTEM.
3. MATS SHOULD BE CLEANED ONCE THE VOIDS BETWEEN THE PYRAMIDS BECOME FULL OF SEDIMENT. TYPICALLY THIS WILL NEED TO BE PERFORMED WITHIN TWO WEEKS AFTER A STORM EVENT. BRUSHING IS THE PREFERRED METHOD OF CLEANING, EITHER MANUALLY OR MECHANICALLY.
4. THE USE OF ICE MELT, ROCK SALT, SNOW MELT, DE-ICER, ETC. SHOULD BE UTILIZED AS NECESSARY DURING THE WINTER MONTHS AND AFTER A SNOW EVENT TO PREVENT ICE BUILDUP.

REMOVAL

1. REMOVAL OF FODS TRACKOUT CONTROL SYSTEM IS REVERSE ORDER OF INSTALLATION.
2. STARTING WITH THE LAST MAT, THE MAT THAT IS PLACED AT THE INNERMOST POINT OF THE SITE OR THE MAT FURTHEST FROM THE EXIT OR PAVED SURFACE SHOULD BE REMOVED FIRST.
3. THE ANCHORS SHOULD BE REMOVED.
4. THE CONNECTOR STRAPS SHOULD BE UNBOLTED AT ALL LOCATIONS IN THE FODS TRACKOUT CONTROL SYSTEM.
5. STARTING WITH THE LAST MAT IN THE SYSTEM, EACH SUCCESSIVE MAT SHOULD THEN BE MOVED AND STACKED FOR LOADING BY FORKLIFT OR EXCAVATOR ONTO A TRUCK FOR REMOVAL FROM THE SITE.



INLET PROTECTION NOTES:

1. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN 1/3 FULL.

BAG FILTER

NOT TO SCALE

Figure 2 - 20. Catchbasin Filter

GRADING, EROSION & SEDIMENTATION CONTROL 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 city engineer prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.

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

7. All limits of clearing and areas of vegetation preservation as prescribed on the plans shall be clearly flagged in the field and observed during construction.

8. All required sedimentation and erosion control facilities must be constructed and in operation prior to any land clearing and/or other construction to ensure that sediment laden water does not enter the natural drainage system. The contractor shall schedule an inspection of the erosion control facilities PRIOR to any land clearing and/or other construction. All erosion and sediment facilities shall be maintained in a satisfactory condition as determined by the City, until such time that clearing and/or construction is completed and the potential for on-site erosion has passed. The implementation, maintenance, replacement, and additions to the erosion and sedimentation systems shall be the responsibility of the permitee.

9. The erosion and sedimentation control system facilities depicted on these plans are intended to be minimum requirements to meet anticipated site conditions. As construction progresses and unexpected or seasonal conditions dictate, facilities will be necessary to ensure complete siltation control on the site. During the course of construction, it shall be the obligation and responsibility of the permittee to address any new conditions that may be created by his activities and to provide additional facilities, over and above the minimum requirements, as may be needed to protect adjacent properties, sensitive areas, natural water courses, and/or storm drainage systems.

10. Approval of these plans is for grading, temporary drainage, erosion and sedimentation control only. It does not constitute an approval of permanent storm drainage design, size or location of pipes, restrictors, channels, or retention facilities.

11. Any disturbed area which has been stripped of vegetation and where no further work is anticipated for a period of 30 days or more, must be immediately stabilized with mulching, grass planting, or other approved erosion control treatment applicable to the time of year in question. Grass seeding alone will be acceptable only during the months of April through September inclusive. Seeding may proceed outside the specified time period whenever it is in the interest of the permittee but must be augmented with mulching, netting, or other treatment approved by the City.

12. In case erosion or sedimentation occurs to adjacent properties, all construction work within the development that will further aggravate the situation must cease, and the owner/contractor will immediately commence restoration methods. Restoration activity will continue until such time as the affected property owner is satisfied.

13. No temporary or permanent stockpiling of materials or equipment shall occur within critical areas or associated buffers, or the critical root zone for vegetation proposed for retention.

PLASTIC COVERING NOTES:

1. Plastic sheeting shall have a minimum thickness of 6 mils and shall meet the requirements of the STATE STANDARD SPECIFICATIONS Section 9-14.5.
2. Covering shall be installed and maintained tightly in place by using sandbags or tires on ropes with a maximum 10-foot grid spacing in all directions. All seams shall be taped or weighted down full length and there shall be a least a 12 inch overlap of all seams.
3. Clear plastic covering shall be installed immediately on areas seeded between November 1 and March 31 and remain until vegetation is firmly established.
4. When the covering is used on un-seeded slopes, it shall be kept in place until the next seeding period.
5. Plastic covering sheets shall be buried two feet at the top of slopes in order to prevent surface water flow beneath sheets.
6. Proper maintenance includes regular checks for rips and dislodged ends.

CONSTRUCTION SEQUENCE

1. OBTAIN REQUIRED PERMITS AND HOLD A PRECONSTRUCTION MEETING WITH THE CITY.
2. ESTABLISH CLEARING AND GRADING LIMITS.
3. INSTALL SILT FENCE IF REQUIRED.
4. INSTALL CB INLET PROTECTION.
5. INSTALL TRACKOUT MAT.
6. SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY.
7. IDENTIFY EROSION CONTROL MEASURES WHICH REQUIRE REGULAR MAINTENANCE. ENSURE EROSION CONTROL MEASURES IN PLACE ARE ADEQUATE, INSTALL ADDITIONAL MEASURES IF NECESSARY TO PREVENT SEDIMENT LADEN RUNOFF FROM LEAVING SITE.
8. CLEAR AND REMOVE ORGANIC MATERIAL, PREP SUBGRADE FOR FOUNDATION AND PARKING LOT CONSTRUCTION.
9. INSTALL DISPERSION TRENCH AND DI STORM LINE PAST WALL LOCATION.
10. MASS GRADE SITE, AND CONSTRUCT RETAINING WALL.
11. INSTALL INFILTRATION TRENCH.
11. INSTALL STORM AND SEWER & WATER SERVICES.
12. INSTALL BUILDING FOUNDATION.
13. INSTALL OTHER UTILITIES.
14. INSTALL TREATMENT SAND AND RESERVOIR COURSE.
15. CONSTRUCT SIDEWALKS
16. INSTALL GRAVEL BASE.
17. CONSTRUCT BUILDING.
18. PAVE PARKING LOT
19. BRING UTILITIES TO FINAL GRADE.
20. VEGETATE EXPOSED AREAS AND STABILIZE STOCKPILES AS SOON AS PRACTICAL AND AS NEEDED TO PREVENT EROSION.
21. HYDROSEED AND/OR INSTALL PERMANENT LANDSCAPING TO PROVIDE PERMANENT EROSION CONTROL.
22. REMOVE TEMPORARY EROSION CONTROL MEASURES WHEN SITE IS STABLE.

TEMPORARY ESC MEASURES REQUIRED

1. Temporary Siltation Fencing.
2. Vegetation and Stabilization of exposed surfaces
3. Catch Basin Inlet Protection
4. Additional measures may be required, see note 9 of Grading, Erosion & Sedimentation Control notes and Stormwater Pollution Prevention Plan (SWPPP) prepared for this project.

PERMANENT ESC MEASURES REQUIRED

1. Seeding and/or Landscaping of non-impervious surfaces

SPECIAL NOTES:

1. Contractor shall designate an erosion and sediment control leadperson, and shall comply with the stormwater pollution prevention plan prepared for the project.
2. Sediment-laden runoff shall not be allowed to discharge beyond the construction limits.
3. Exposed areas and soil stockpiles must be stabilized according to the following schedule:
   1. From April 1 to October 31 all disturbed areas at final grade and all exposed areas that are scheduled to remain unworked for more than 30 days shall be stabilized within 10 days.
   2. 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 greater than 5,000 square feet that are scheduled to remain unworked for more than 24 hours and exposed areas of less than 5,000 square feet that will remain unworked for more than seven (7) days shall be stabilized immediately.

   All disturbed areas which are not planned to be constructed on within 90 days from time of clearing and grading shall be revegetated with the native vegetation.
4. No clearing, filling, grading or other alteration occurs within any critical areas or associated buffer unless specifically authorized pursuant to Chapter 21.06 Environmentally Critical Areas Management of the Puyallup Municipal Code.
5. If dewatering of excavations is required, dewatering must conform to the requirements of Section 504 of Puyallup City Standards.

MULCHING NOTES

1. Mulch materials used shall be hay or straw and shall be applied at a rate of 75-100 pounds per 1000 square feet, or 90-120 bales per acre to a min. depth of 2 inches.
2. Mulches shall be applied in all areas with exposed slopes greater than 2:1.
3. Mulching shall be used immediately after seeding or in areas which cannot be seeded because of the season.
4. All areas needed mulch shall be covered by November 1.

SEEDING NOTES (Erosion control seeding):

1. Seed mixture shall be 10% Redtop (92% purity, 90% germination); 40% Annual Rye (98% purity, 90% germination); 40% Chewing Fescue (97% purity, 80% germination); and 10% White dutch clover (96% purity, 90% germination) and shall be applied at the rate of 120 pounds per acre.
2. Seed beds planted between May 1 and October 31 will require irrigation and other maintenance as necessary to foster and protect the root structure.
3. For seed beds planted between October 31 and April 30, armoring of the seed bed will be necessary. (e.g., geotextiles, jute mat, clear plastic covering).
4. Before seeding, install needed surface runoff control measures such as gradient terraces, interceptor dikes, swales, level spreaders and sediment basins.
5. The seedbed shall be firm with a fairly fine surface, following surface roughening. Perform all operation across or at right angles to the slope.
6. Fertilizers are to be used according to suppliers recommendations. Amounts used should be minimized, especially adjacent to water bodies and wetlands.
7. Erosion control seeding shall not be used in areas subject to wear by construction traffic.
8. Erosion control seeding may be used in all areas of 5% or less slope. In areas between 5 and 10% slope, erosion control seeding may be used for a maximum horizontal distance of 100 feet. Use mulch or netting or other treatments for steeper and longer slopes.

SOIL STOCKPILE NOTES:

1. Stockpiles shall be stabilized (with plastic covering or other approved device) daily between November 1 and March 31.
2. In any season, sediment leaching from stock piles must be prevented.
3. Topsoil shall not be placed while in a frozen or muddy condition, when the subgrade is excessively wet, or when conditions exist that may otherwise be detrimental to proper grading or proposed sodding or seeding.
4. Previously established grades on the areas to be topsoiled shall be maintained according to the approved plan.
5. Stockpiles must be located more than 50 feet from all drainage features.

City of Puyallup
Development & Permitting Services
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BY: _____
CITY OF PUYALLUP
DEVELOPMENT SERVICES

DATE: 12/13/2024

NOTE:

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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 ENGINEERING SERVICES MANAGER.

ROBERT A. TRAVITT — 43715 — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — 11/1/2024

REVISION	DATE
1 Revised per City review.	1/9/24
2 Revised per City review. Switch to permeable pavement.	6/4/2024
3 Revised per City review.	9/17/24
4 Revised to full dispersion.	10/31/24
5	
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9	
10	

JOB NO. 2935
DATE: JULY 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Rob Travitt
APPROVED BY: Paul Green

AZURE GREEN CONSULTANTS
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TESC Notes & Details

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3401 Lind Ave SW
Renton, WA, 98057
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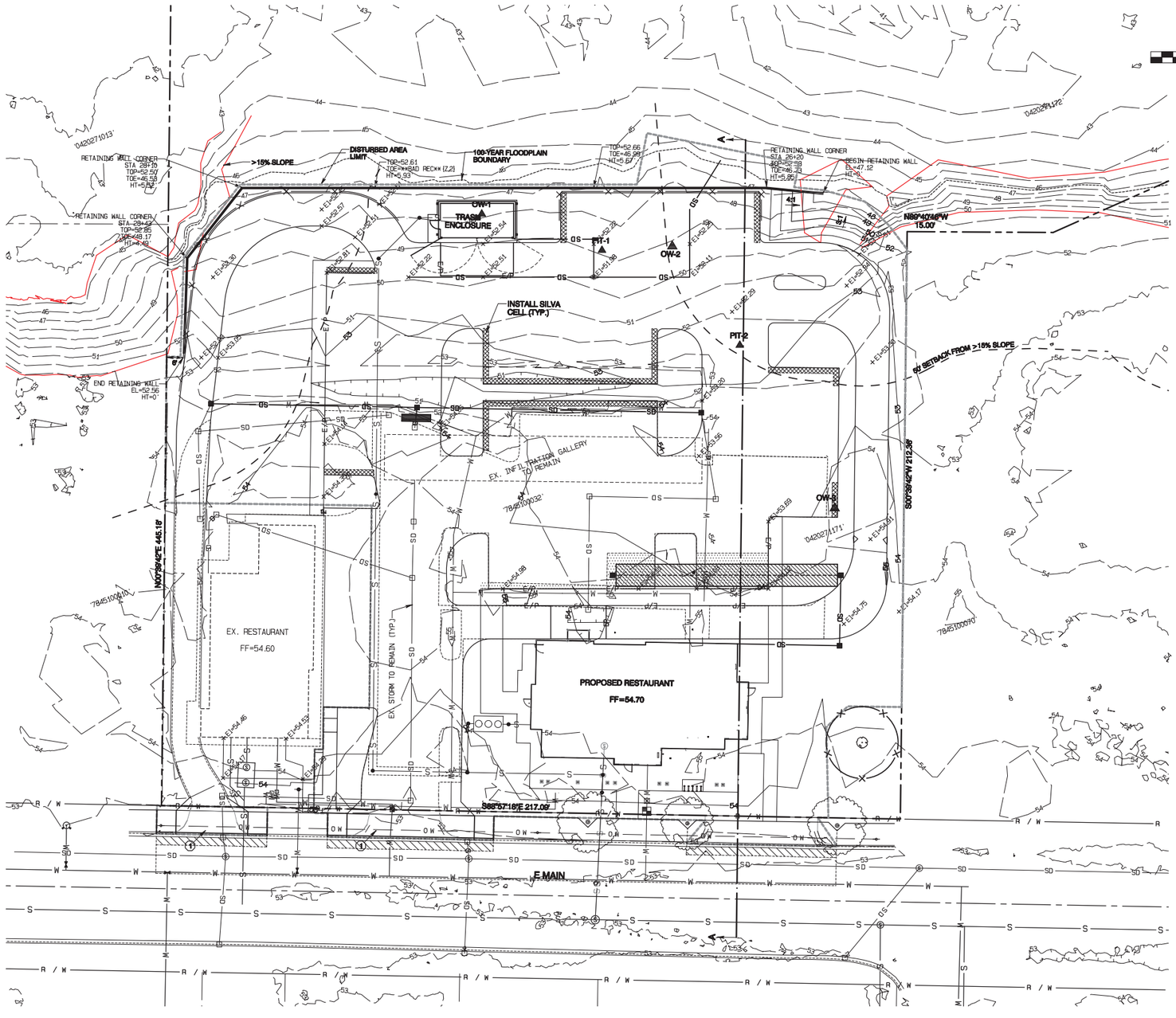
DRAWING
C-5
SHEET 5 OF 16

Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington



SEE SHEET C-16 FOR GRADING/ ADA ROUTE DETAILS

FILL NOTES:

1. UNLESS OTHERWISE SHOWN ON DETAILS WITHIN THESE PLANS, ALL FILL PLACED UNDER PROPOSED BUILDINGS OR PAVED AREAS WILL BE CONSIDERED STRUCTURAL FILL.
2. SUITABILITY OF ONSITE MATERIAL AS STRUCTURAL FILL SHALL BE DETERMINED BY AN ONSITE GEOTECHNICAL ENGINEER. PLACEMENT, LIFTS, AND COMPACTION REQUIREMENTS SHALL BE AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
3. ANY IMPORTED MATERIAL FOR STRUCTURAL FILL SHALL MEET REQUIREMENTS OF WSDOT SPECIFICATION 9-03.14(1) OR 9-03.9(1). INSTALLATION SHALL BE PER WSDOT SPECIFICATION 4-04, UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL ENGINEER.
4. PRIOR TO PLACEMENT OF ANY FILL FOR THIS PROJECT, VEGETATION SHALL BE STRIPPED.

CUT/FILL NOTES:

1. TYPICAL MAXIMUM CUT AND FILL SLOPES ARE 2:1.
2. TEMPORARY CUT SLOPES LESS THAN 4 FEET TALL MAY BE STEEPER THAN 2:1.
3. ANY CUT SLOPE, INCLUDING TRENCHING, 4 FEET OR DEEPER, STEEPER THAN 4:1 SHALL REQUIRE SHORING/CRIBBING.

City of Puyallup Development & Permitting Services ISSUED PERMIT	
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Fire	Traffic

APPROVED

BY: _____ CITY OF PUYALLUP DEVELOPMENT SERVICES

DATE: 12/13/2024

NOTE:

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CALL BEFORE YOU DIG IT IS THE LAW
CALL 811
OR
800-424-5555

11/2/2024
ROBERT A. TRAVITT
STATE OF WASHINGTON
43715
REGISTERED PROFESSIONAL ENGINEER

REVISION	DATE
1 Revised per City review. Switch to permeable pavement.	1/9/24
2 Revised per City review.	6/18/24
3 Revised per City review.	9/11/24
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JOB NO. 2935
DATE: July 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Ron Klink
APPROVED BY: Paul Green

AZURE GREEN CONSULTANTS
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Grading Plan

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Fax rtonkin@tacotimenw.com

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C-6

SHEET 6
OF 16

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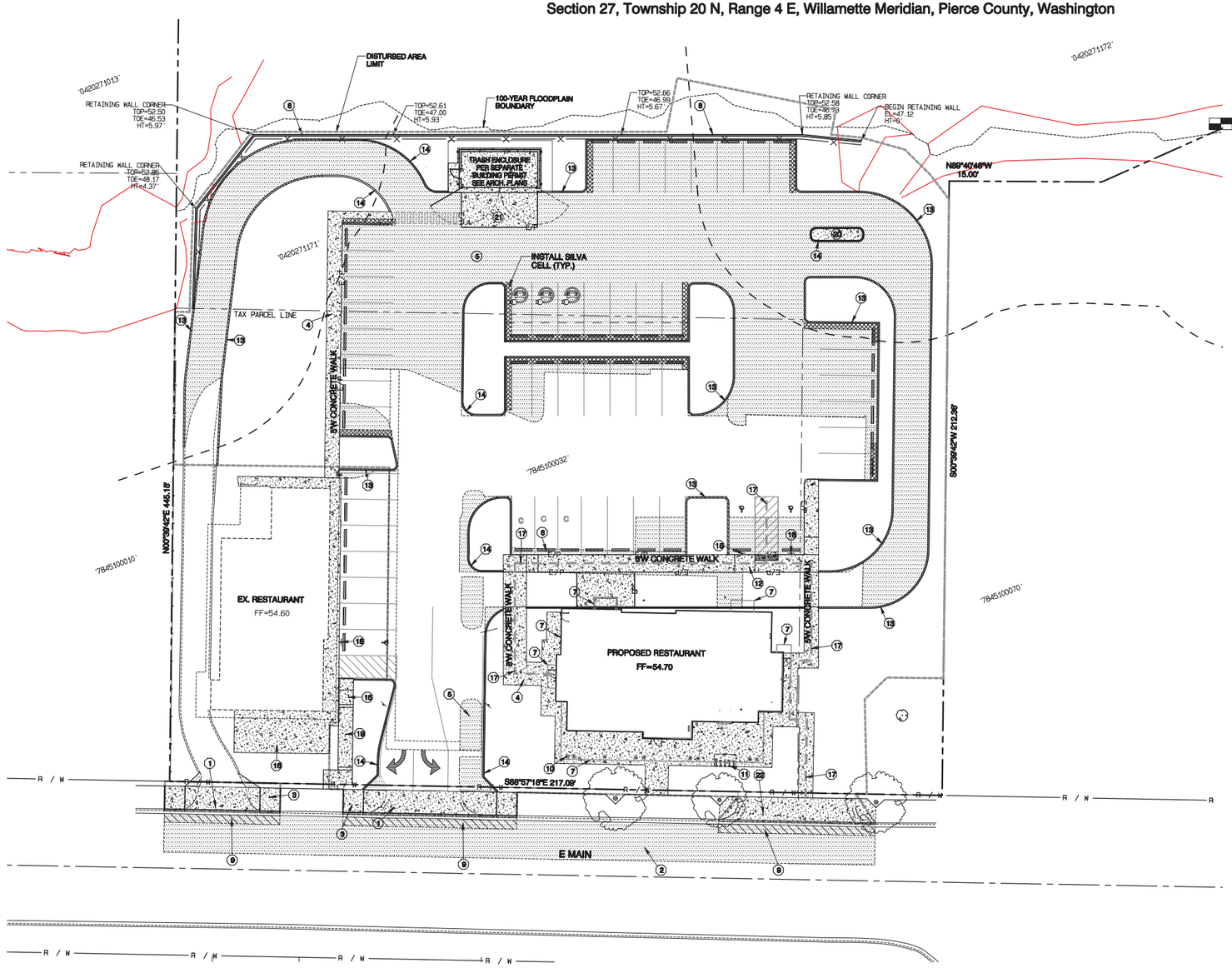
Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington



KEY NOTES

1. CONSTRUCT DRIVEWAY APPROACH PER STD 01.02.16, SHEET C-11
2. 2" HMA OVERLAY
3. REPLACE SIDEWALK, MIN. 1 FULL PANEL SEE STD 01.02.01, SHEET C-11 (TYP)
4. ONSITE CONCRETE WALK, 4" THICK REFERENCE STD 01.02.01, SHEET C-11, FOR CONSTRUCTION REQUIREMENTS
5. NEW HMA PAVEMENT (TYP) SEE SHEET C-11 FOR SECTION
6. WHEELSTOP (TYP.) SEE SHEET C-13
7. ROOF OVERHANG
8. CONCRETE BLOCK RETAINING WALL, SEE SHEET C-9 FOR PROFILE OVER 4 FEET, THEREFORE SEPARATE BUILDING PERMIT REQUIRED. FENCE REQUIRED WHERE HEIGHT 3' OR GREATER.
9. PAVING RESTORATION PER CURB CUT STD DWG 01.02.10, SHEET C-11
10. COLUMN FOR OVERHEAD CANOPY, TYP.
11. BIKE RACK, MEET OR EXCEED FAIRWEATHER BR-1.5
12. 6' WIDE CONCRETE SIDEWALK WITH INTEGRAL CURB, BOTH SIDES SEE DETAIL SHEET C-11
13. EXTRUDED CURB, SEE DETAIL SHEET C-11
14. CEMENT CONCRETE TRAFFIC CURB, SEE DETAIL SHEET C-11
15. CEMENT CONCRETE CURB RAMP, SEE DETAIL BELOW
16. CONCRETE PATIO - 4" THICK, 14.6'x33'
17. ADA ROUTE (SEE SHEET C-16)
18. ADA PARKING SIGN, SEE DETAIL SHEET C-16
19. ADA RAMP WITH RAILINGS, SEE DETAIL SHEET C-16
20. CONCRETE FILL, 4" MIN THICKNESS
21. 8" THICK CEMENT CONCRETE, SEE SHEET C-16 FOR GRADING DETAIL
22. INSTALL SIDEWALK TO REPLACE DRIVEWAY APPROACH SEE CITY STD 01.02.01, SHEET C-11

SEE SHEET C-16 FOR GRADING/ ADA ROUTE DETAILS

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Site Plan

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Phone 206.255.3833
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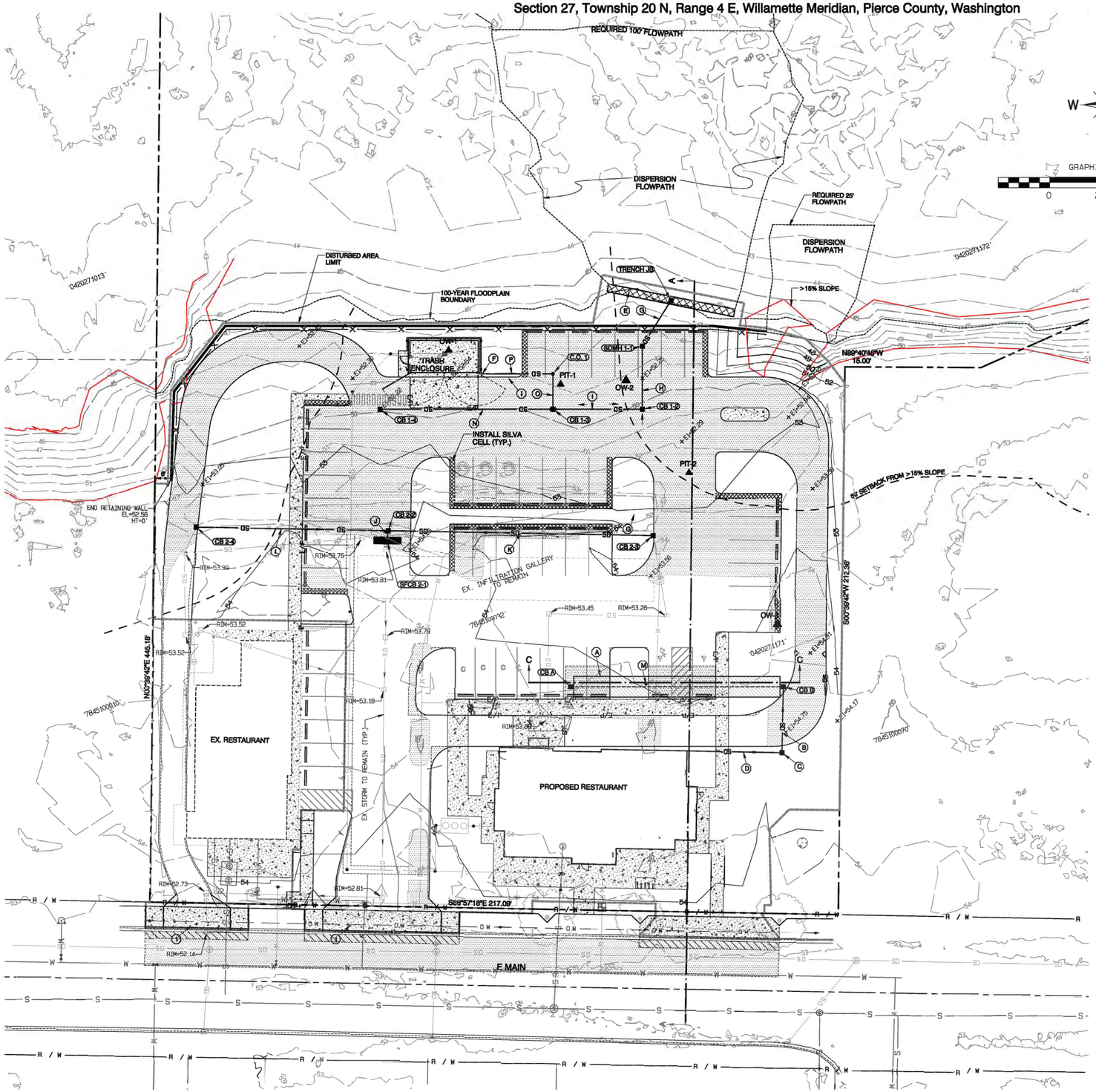

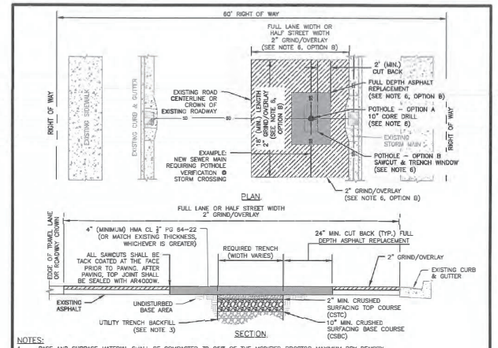

NOTES:

1. BASE AND SUBBASE MATERIAL SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
2. ALL DEPTHS INDICATED ARE A MINIMUM COMPACTED DEPTH.
3. INITIAL BACKFILLING SHALL BE PERFORMED ONLY AFTER INSPECTION AND APPROVAL OF THE INSTALLED PIPE OR STRUCTURE. THE TRENCH BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL NO. 06.01.01.
4. ALL BACKFILL FOR PIPE TRENCHES SHALL BE MECHANICALLY COMPACTED BY A POWER-OPERATED MECHANICAL TAMPER(S) AS SPECIFIED IN WSDOT STANDARD SPEC. 2-03.3 (14)C, COMPACTING EARTH EMBANKMENTS, METHOD C OF THE WSDOT STANDARD SPECIFICATIONS.
5. IF PAVING SURFACES ADJACENT TO THE TRENCH OPENING MAY BE DAMAGED WHERE TRENCHES ARE MADE PARALLEL TO THE STREET, OR WHERE A NUMBER OF CROSS TRENCHES ARE LAID IN CLOSE PROXIMITY TO ONE ANOTHER OR WHERE THE EQUIPMENT USED MAY CAUSE SUCH DAMAGE, THE CITY ENGINEER MAY REQUIRE A NEGOTIATED CONTRIBUTION FROM THE PERMITTEE FOR RESURFACING IN LIEU OF PATCHING.

   IF THE TOTAL AREA OF THE PROPOSED PATCH OR PROBABLE DAMAGED AREA EXCEEDS 25 PERCENT OF THE TOTAL PAVEMENT SURFACING BETWEEN CURB FACES OR BETWEEN CONCRETE GUTTER EDGES IN ANY BLOCK, SUCH RESURFACING SHALL BE CARRIED ON AND CONTRIBUTIONS AGREED UPON PRIOR TO ISSUANCE OF A PERMIT. SUCH CONTRIBUTIONS SHALL BE IN ADDITION TO THE STANDARD PERMIT FEE.
6. POTHOLING FOR UTILITIES:

   OPTION A - UP TO A 10" DIAMETER CORE DRILL IS ALLOWED. CORE HOLES MADE DURING UTILITY POTHOLES SHALL BE BACKFILLED WITH CDF TO WITHIN 4" OF FINISHED GRADE, 4" OF HMA SHALL THEN BE PLACED AND COMPACTED, FLUSH WITH EXISTING GRADE.

   OPTION B - FOR POTHOLE WINDOWS LARGER THAN 10" IN DIAMETER OR TRENCHING COMPLETED IN EXISTING ROADWAY, THE CONTRACTOR SHALL MEET CITY STANDARD 06.01.01 FOR PIPE BEDDING AND BACKFILL REQUIREMENTS. PAVEMENT RESTORATION SHALL BE ACCOMPLISHED BY INSTALLING THE TRENCH PATCH, AS SHOWN HEREIN, AND THEN GRINDING/OVERLAYING TO A MINIMUM DEPTH OF 2". THE LIMITS OF THE REQUIRED GRIND/OVERLAY SHALL BE TO THE NEAREST LANE, OR HALF STREET, AND SHALL BE A MINIMUM OF 15 FEET LONG (LONGITUDINALLY ALONG ROADWAY) CENTERED AT LOCATION OF PATCH. NOTE: IF EXISTING ASPHALT THICKNESS IS LESS THAN 3", FULL DEPTH PAVEMENT REPLACEMENT, IN LIEU OF GRIND/OVERLAY, TO MEET A MINIMUM ASPHALT THICKNESS OF 4" WILL BE REQUIRED.

   WHERE LOCATION OF TRENCH OR POTHOLE WINDOW INTERSECTS ROAD CENTERLINE, A MINIMUM GRIND AND OVERLAY OF ONE FULL LANE WIDTH (12') IS REQUIRED CENTERED ON ROADWAY. NO LONGITUDINAL JOINTS WILL BE ALLOWED IN THE WHEEL PATH.
7. ALL MANHOLE FRAMES, VALVE FRAMES AND MONUMENT COVERS SHALL BE INSTALLED AFTER PLACEMENT OF ASPHALT. IF MORE THAN ONE LIFT IS NECESSARY, FRAMES AND LIDS WILL BE ADJUSTED TO FINISH GRADE AT FIRST LIFT AS DIRECTED BY THE CITY.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

APPROVED FOR PUBLIC ACCESS
5/15/18

STREET PATCH

CITY STANDARD 01.01.20

DRIFT I.D. SCALE:

STORM STRUCTURES

- CB A — CB A TYPE 1 W/SOLID LID RI M=53.96 I .E.8" E=50.27
- CB B — CB B TYPE 1 W/SOLID LID RI M=54.52 I .E.8" W,S=50.27
- C — SED CONTROL TYPE 1 SEE CITY STD 02.05.02, SHEET C-12 RI M=54.77 I .E.8" N,W=50.78
- TRENCH JB — TRENCH JB TYPE 1L W/SOLID LID RI M=48.00 I .E.12" SW=43.50 I .E.8" NW,SE=43.50
- SDMH 1-1 — SDMH 1-1 48" W/SOLID LID RI M=52.38 I .E.12" NE,S=43.64
- CB 1-2 — CB 1-2 TYPE 1 W/DUAL VANED GRATE RI M=52.11 I .E.12" N,W=47.50
- CB 1-3 — CB 1-3 TYPE 1 W/DUAL VANED GRATE RI M=51.96 I .E.12" E,W=47.78 I .E.4" E,W=48.45
- CB 1-4 — CB 1-4 TYPE 1 W/DUAL VANED GRATE RI M=52.22 I .E.12" E=48.12
- SFCB 2-1 — SFCB 2-1 2-CARTRIDGE STORMFILTER CB SEE DETAIL SHEET C-13 CUT EXISTING 12" AND CONNECT RI M=53.81 I .E.12" S,N=50.29
- CB 2-2 — CB 2-2 TYPE 1 W/DUAL VANED GRATE RI M=53.75 I .E.12" S,E,W=50.31
- CB 2-3 — CB 2-3 TYPE 1 W/SOLID LID CUT AND CONNECT TO EX. 8" RI M=53.27 I .E.12" W=51.12 I .E.EX. 8" S=51.45
- CB 2-4 — CB 2-4 TYPE 1 W/DUAL VANED GRATE CONNECT TO EX. 8" RI M=53.24 I .E.12" E=51.07 I .E.EX. 8" S=51.40
- C.O. 1 — C.O. 1 RI M=52.26 1-4" 90° BEND I .E=48.59

STORM PIPES

- B — 26LF 8" PVC SDR-35 S=1.96%
- D — 37LF 8" PVC SDR-35 S=0.51%
- G — 21LF 12" DI S=0.67%
- H — 26LF 12" CPEP S=16.16%
- I — 35LF 12" CPEP S=0.52%
- J — 4LF 12" DI S=0.53%
- K — 103LF 12" DI S=0.79%
- L — 74LF 12" DI S=1.02%
- N — 87LF 12" CPEP S=0.51%
- O — 14LF 4" CPEP S=1.0%
- P — 27LF 4" CPEP S=1.9%

STORM KEY NOTES

- A — ROOF DOWNSPOUT I NFILTRATION TRENCH SEE DETAI LSHEET C-12 8'W×80'Lx2D 80LF 8" PERF. PVC SDR-35 BOTTOM ELEV=49.80
- E — 50LF DISPERSION TRENCH GRADE BOARD ELEV=47.00 SEE DETAIL SHEET C-13
- F — CONNECT TO BUI LDINGROOF DRAIN
- M — I NSPECTION PORT PER CITY STD. 02.01.10, SHEET C-12

City of Puyallup
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OR
800-424-5555

APPROVED
BY: CITY OF PUYALLUP DEVELOPMENT SERVICES
DATE: 12/13/2024

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 ENGINEERING SERVICES MANAGER.

12/4/2024
ROBERT A. TRAVITT
STATE OF WASHINGTON
43715
REGISTERED PROFESSIONAL ENGINEER

REVISION	DATE
1 Revised per City review.	1/9/24
2 Revised per City review. Switch to permeable pavement.	6/19/24
3 Revised per City review.	9/3/24
4 Revised to full dispersion.	10/31/24
5 Add to tree protector, clarify Type A update infil. details.	12/3/24
6	
7	
8	
9	
10	

JOB NO: 2935
DATE: July 14, 2023
DESIGNED By: Paul Green
DRAWN By: Rob Travitt
CHECKED By: Rob Travitt
APPROVED By: Paul Green

AZURE GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3142

Storm Plan

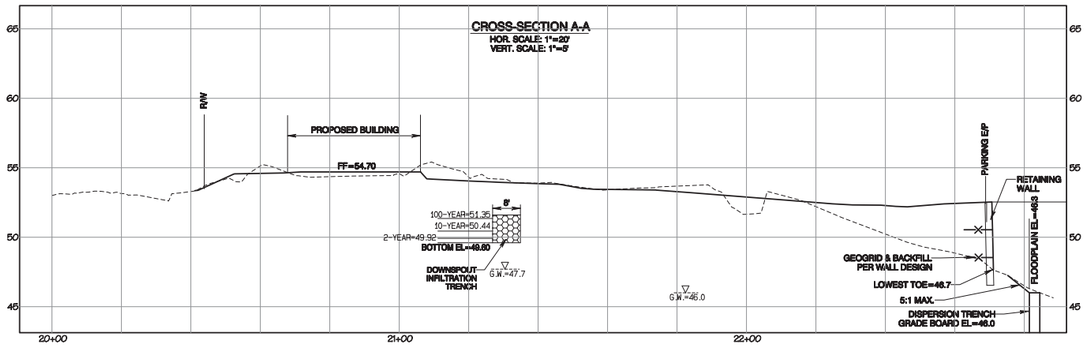
Taco Time
Puyallup TT, LLC
3401 Lind Ave SW
Renton, WA. 98057
Phone 206.255.3639
Fax rtonkin@tacotimenw.com

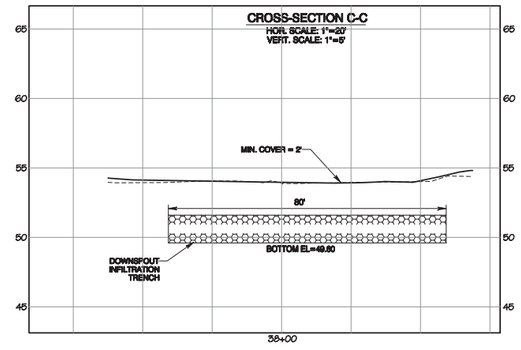
DRAWING
C-8
SHEET 8 OF 16

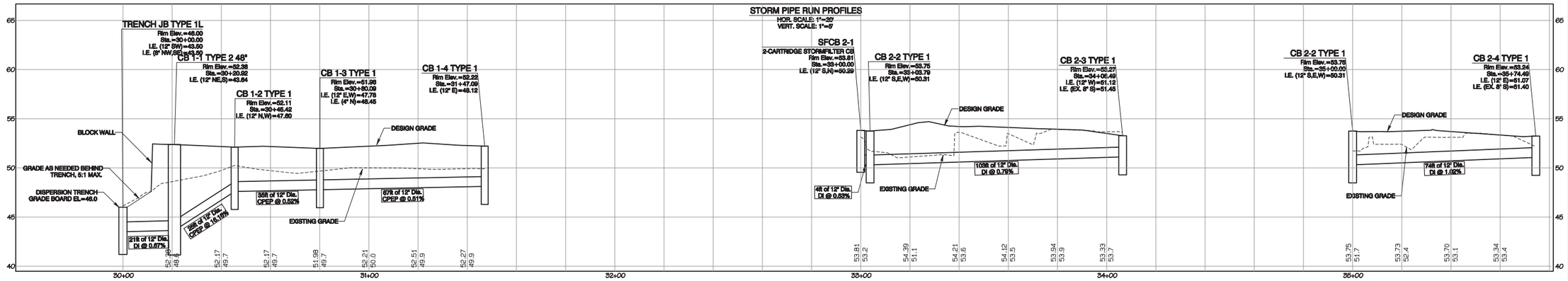
Project Desc: Taco Time Path: F:\Jobs\2935 - Taco Time\Tenant\Taco 2024 12Ad.pro Plot Date/Time: 12/4/2024/10:01:26AM

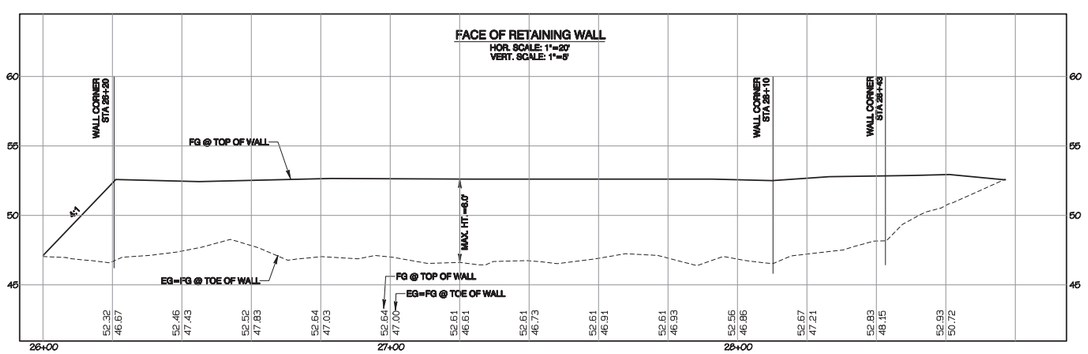
Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington









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OR
800-424-5555

APPROVED

BY: _____
CITY OF PUYALLUP
DEVELOPMENT SERVICES

DATE: 12/13/2024

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 ENGINEERING SERVICES MANAGER.

ROBERT A. TRAVITT — STATE OF WASHINGTON — 43715 — REGISTERED PROFESSIONAL ENGINEER — 11/2/2024

	DATE
1 Revised per City review.	1/9/24
2 Revised per City review, switch to permeable pavement.	6/18/24
3 Revised per City review.	9/17/24
4 Revised to full dispersion.	10/31/24

JOB NO. 2535
DATE: JULY 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Ron Klink
APPROVED BY: Paul Green

AZURE GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3142

Cross-Sections & Storm Profiles

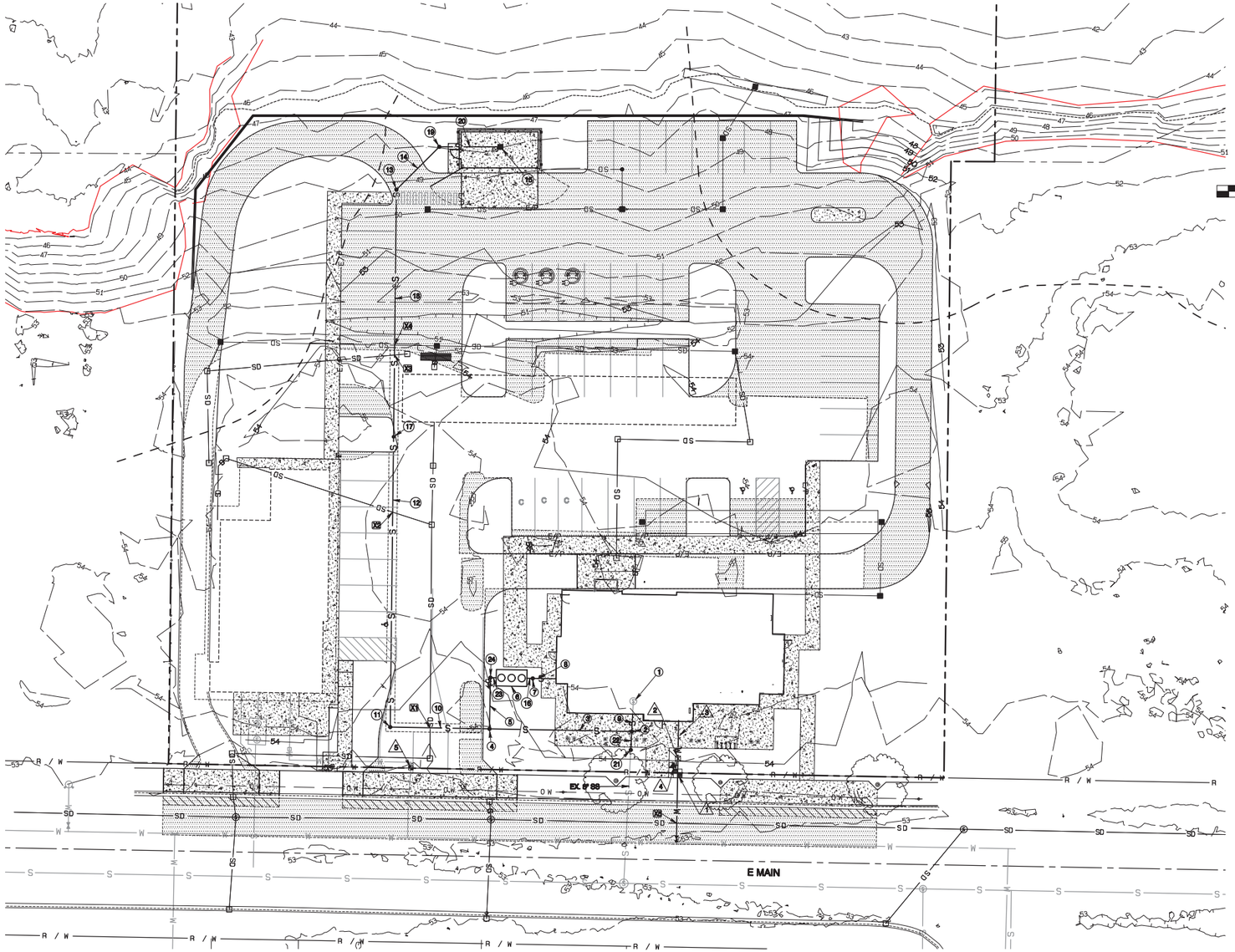
Taco Time

Puyallup TT, LLC
3401 Lind Ave SW
Renton, WA, 98057
Phone 206.255.3839
Fax rtonkin@tacotimenw.com

DRAWING
C-9
SHEET 9
OF 16

Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington



N

W E

S

GRAPHIC SCALE 1"=20'

0 20 40 60

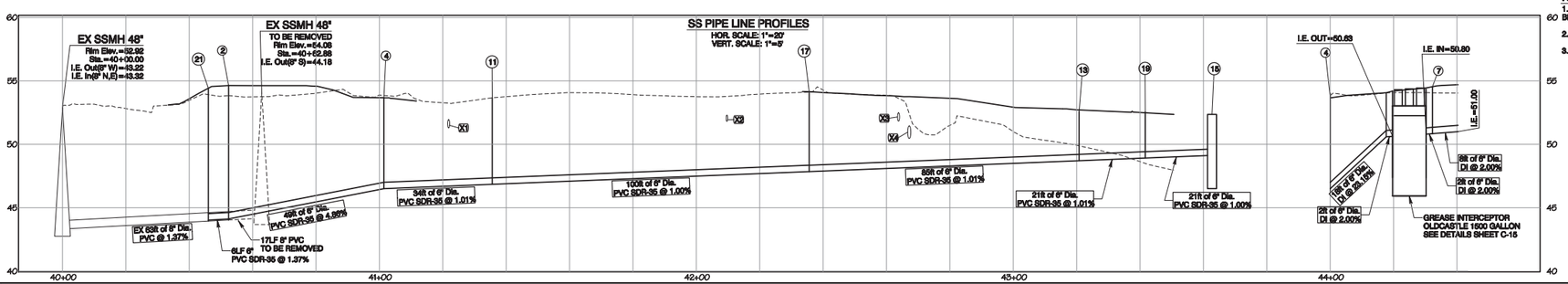
KEY NOTES

1. REMOVE EX. MANHOLE AND 10LF EX. 8" PIPE
2. 1-8" TEE
   1-C.O.
   RIM=54.84
   I.E. 6"=44.12
3. 49LF 6" PVC SDR-35 S=4.9%
4. 1-6" TEE
   1-C.O.
   RIM=53.85
   I.E. 6"=48.50
5. 18LF 6" DI S=21%
6. GREASE INTERCEPTOR
   1,500 GAL.
   SEE DETAIL SHEET C-15
7. 1-C.O.
   RIM=54.54
   I.E. 6"=50.84
8. 6LF 6" DI S=2.0%
9. 6LF 6" PVC SDR-35 S=88%
10. 34LF 6" PVC SDR-35 S=1.0%
11. 1-6" 90° BEND
    1-C.O.
    RIM=53.67
    I.E.=46.85
12. 100LF 6" PVC SDR-35 S=1.0%
13. 1-8" 45° BEND
    1-C.O.
    RIM=52.58
    I.E.=48.71
14. 21LF 6" PVC SDR-35 S=1.0%
15. TRASH ENCLOSURE
    SUMP STRUCTURE
    SEE DETAIL SHEET C-13
    RIM=52.26
    I.E.=48.13
16. 2LF 6" DI S=2.0%
17. 1-C.O.
    RIM=54.15
    I.E.=47.85
18. 85LF 6" PVC SDR-35 S=1.0%
19. 1-8" 45° BEND
    1-C.O.
    RIM=52.54
    I.E.=48.92
20. 21LF 6" PVC SDR-35 S=1.0%
21. CONNECT TO EX. 8"
    1-C.O.
    1-SAMPLING TEE
    1-8x6 REDUCER
    RIM=54.49
    I.E. 6"=44.03
22. REPLACE 6 LF EX. 8" WITH 8" PVC SDR-35
23. 2LF 6" DI S=2.0%
24. 1-8" 90° BEND
    1-C.O.
    RIM=54.06
    I.E.=50.59

1. 1-1/2" WATER SERVICE & METER PER 03.03.02, SHEET C-14
   24LF
2. 1-1/2" RPBA PER 03.04.02, SHEET C-14
3. 1-1/2" WATER SERVICE TO BUILDING PER 03.03.04, SHEET C-14
   18LF
4. 1-1/2" TEE TO IRRIGATION
   1-1/2" BALL VALVE, 1-1/2" DCVA, SEE DETAIL 03.04.01 SHEET C-14
   SEE IRRIGATION PLAN
5. EXISTING WATER SERVICE/METER
   INSTALL ARMORCAST METER BOX
   AND RAISE BOX AND METER SETTER
   TO MATCH BACK OF WALK

CROSSINGS

- X1 BOTTOM 8" SD=51.25
  TOP 6" SS = 47.25
  CLEARANCE = 4.00'
- X2 BOTTOM 8" SD=51.76
  TOP 6" SS = 48.13
  CLEARANCE = 3.63'
- X3 BOTTOM 8" SD=51.78
  TOP 6" SS = 48.68
  CLEARANCE = 3.10'
- X4 BOTTOM 12" SD=50.42
  TOP 6" SS = 48.71
  CLEARANCE = 1.71'
- X5 BOTTOM 12" SD=48.74
  INSTALL WATER SERVICE BELOW
  EX. STORM, 12" MIN. CLEARANCE
  TOP WATER = 47.74 OR LOWER



NOTES:

1. ALL PIPE TO BE INSTALLED PER PIPE TRENCHING, BEDDING, AND BACKFILL DETAIL, STD 08.01.01, SHEET C-11.
2. SEE SHEET C-14 FOR STANDARD WATER NOTES.
3. SEE SHEET C-15 FOR STANDARD SS NOTES.

City of Puyallup
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Engineering	Public Works
Fire	Traffic

FIRE HYDRANT/FDC
LOCATION/ACCESS APPROVED
BY _____
CITY OF PUYALLUP
FIRE CODE OFFICIAL
DATE 12/17/2024

NOTE: THE APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
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FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

APPROVED
BY: _____
CITY OF PUYALLUP
DEVELOPMENT SERVICES
DATE: 12/13/2024

NOTE:
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ROBERT A. TRAVITT — STATE OF WASHINGTON — 43715 — REGISTERED PROFESSIONAL ENGINEER — 11/1/2024

REVISION	DATE
1 Revised per City review.	1/9/24
2 Revised per City review, switch to permeable pavement.	6/18/24
3 Revised per City review.	8/1/24
4 Revised to full dimension.	10/31/24
5	
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JOB NO. 2535
DATE: July 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Bill Hobbs
APPROVED BY: Paul Green

AZURE GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA. 98372 phone: 253.770.3144 fax: 253.770.3142

SS & Water Plan

Taco Time

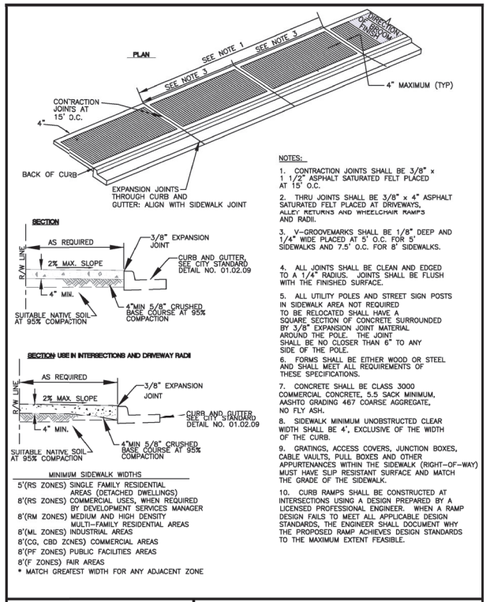
Taco Time NW
3401 Lind Ave SW
Renton, WA. 98057
Phone 206.255.3833
Fax rtonklin@tacotimenw.com

DRAWING
C-10
SHEET 10
OF 16

Project Desc.: Taco Time Path: F:\Jobs\2535 - Taco Time\Tmain\taco 2024 101.pro Plot Date/Time: 11/1/2024/7:14:22AM

Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington

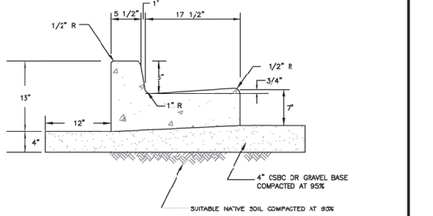


NOTES:

1. CONTRACTION JOINTS SHALL BE 3/8" x 1 1/2" ASPHALT SATURATED FELT PLACED AT 15' O.C.
2. THRU JOINTS SHALL BE 3/8" x 4" ASPHALT SATURATED FELT PLACED AT DRIVEWAYS, ALLEY RETURNS AND WHEELCHAIR RAMPS AND RADII.
3. V-GROOVEMARKS SHALL BE 1/8" DEEP AND 1/4" WIDE PLACED AT 5' O.C. FOR 5' SIDEWALKS AND 7.5' O.C. FOR 8' SIDEWALKS.
4. ALL JOINTS SHALL BE CLEAN AND EDGED TO A 1/4" RADIUS. JOINTS SHALL BE FLUSH WITH THE FINISHED SURFACE.
5. ALL UTILITY POLES AND STREET SIGN POSTS IN SIDEWALK AREA NOT REQUIRED TO BE RELOCATED SHALL HAVE A SQUARE SECTION OF CONCRETE SURROUNDED BY 3/8" EXPANSION JOINT MATERIAL AROUND THE POLE. THE JOINT SHALL BE NO CLOSER THAN 6" TO ANY SIDE OF THE POLE.
6. FORMS SHALL BE EITHER WOOD OR STEEL AND SHALL MEET ALL REQUIREMENTS OF THESE SPECIFICATIONS.
7. CONCRETE SHALL BE CLASS 3000 COMMERCIAL CONCRETE, 5.5 SACK MINIMUM, AASHTO GRADING 467 COARSE AGGREGATE, NO FLY ASH.
8. SIDEWALK MINIMUM UNOBSTRUCTED CLEAR WIDTH SHALL BE 4', EXCLUSIVE OF THE WIDTH OF THE CURB.
9. GRATINGS, ACCESS COVERS, JUNCTION BOXES, CABLE VAULTS, PULL BOXES AND OTHER APPURTENANCES WITHIN THE SIDEWALK (RIGHT-OF-WAY) MUST HAVE SLIP RESISTANT SURFACE AND MATCH THE GRADE OF THE SIDEWALK.
10. CURB RAMPS SHALL BE CONSTRUCTED AT INTERSECTIONS USING A DESIGN PREPARED BY A LICENSED PROFESSIONAL ENGINEER. WHEN A RAMP DESIGN FAILS TO MEET ALL APPLICABLE DESIGN STANDARDS, THE ENGINEER SHALL DOCUMENT WHY THE PROPOSED RAMP ACHIEVES DESIGN STANDARDS TO THE MAXIMUM EXTENT FEASIBLE.

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SIDEWALK WITHOUT PLANTING STRIP — CITY STANDARD 01.02.01

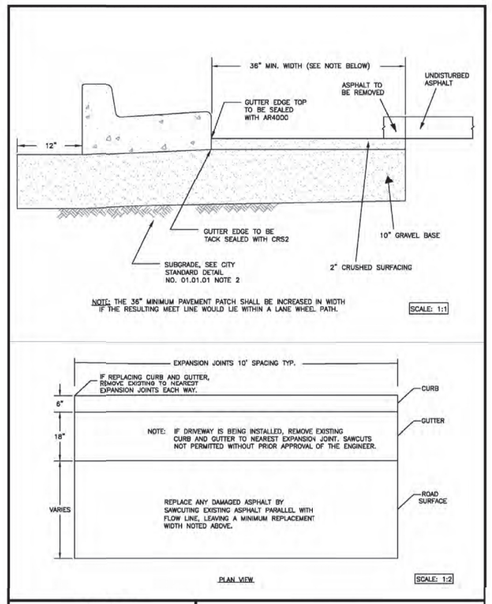


NOTES:

1. CONTRACTION JOINTS SHALL BE 3/8" x 2 1/4" ASPHALT SATURATED FELT PLACED IN ALL EXPOSED SURFACES OF CURB AND GUTTER AND SPACED AT 15' MAX. 10' MIN. O.C.
2. THRU JOINTS SHALL BE 3/8" ASPHALT SATURATED FELT PLACED AT POINTS OF TANGENCY ON CURVES, AT CATCH BASINS, AND AT EDGES OF ALLEY AND DRIVEWAYS THE MAXIMUM DISTANCE BETWEEN THRU JOINTS SHALL BE 100'.
3. CONCRETE SHALL BE CLASS 3000 COMMERCIAL CONCRETE, 5.5 SACK MINIMUM, AASHTO GRADING 467 COARSE AGGREGATE, NO FLY ASH.
4. FORMS SHALL BE STEEL. UNLESS PRIOR APPROVAL IS GIVEN BY THE CITY ENGINEER. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND SECURELY STAKED PRIOR TO CONCRETE PLACEMENT. FULL DEPTH DIVISION PLATES ARE ONLY TO BE USED WHERE THRU JOINTS ARE TO BE PLACED.
5. THE 1" RADIUS ON THE UPPER FACE OF THE CURB MAY BE FORMED BY AN EDGER TOOL OR BUILT INTO THE FACE FORM. THE 1" RADIUS AT THE BOTTOM FACE OF THE CURB SHALL BE FORMED BY THE FACE FORM.

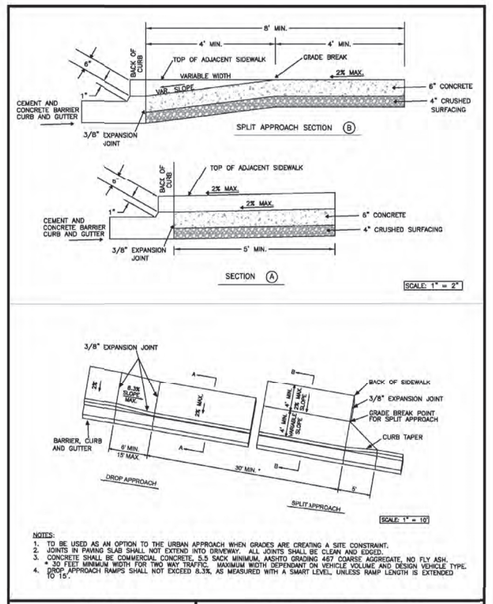
CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CURB AND GUTTER — CITY STANDARD 01.02.09



CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

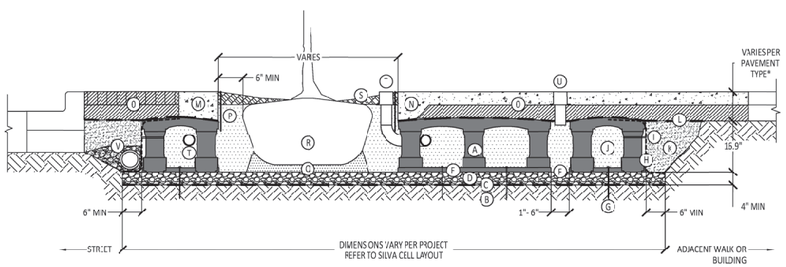
CURB CUT — CITY STANDARD 01.02.10



NOTES:
1. TO BE USED AS AN OPTION TO THE URBAN APPROACH WHEN GRADES ARE CREATING A SITE CONSTRAINT.
2. JOINTS IN PAVING SLAB SHALL NOT EXTEND INTO DRIVEWAY. ALL JOINTS SHALL BE CLEAN AND EDGED.
3. CONCRETE SHALL BE COMMERCIAL CONCRETE, 5.5 SACK MINIMUM, AASHTO GRADING 467 COARSE AGGREGATE, NO FLY ASH.
4. * 30 FEET MINIMUM WIDTH FOR TWO WAY TRAFFIC. MAXIMUM WIDTH DEPENDANT ON VEHICLE VOLUME AND DESIGN VEHICLE TYPE.
5. DROP APPROACH RAMPS SHALL NOT EXCEED 8.3%, AS MEASURED WITH A SMART LEVEL, UNLESS RAMP LENGTH IS EXTENDED TO 15'.

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

URBAN COMMERCIAL APPROACH ALTERNATE 2 — CITY STANDARD 01.02.18



SILVA CELL SYSTEM 1X

NOT TO SCALE

KEY PLAN

(A) SILVA CELL SYSTEM (DECK, BASE, AND POSTS)
(B) SUBGRADE, COMPACTED
(C) GEOTEXTILE FABRIC, PLACED ABOVE SUBGRADE
(D) 4" MIN AGGREGATE SUB BASE, COMPACTED TO 95% PROCTOR
(E) SILVA CELL BASE SLOPE, 10% MAX
(F) 1" TO 6" SPACING BETWEEN SILVA CELLS AT BASE
(G) ANCHORING SPIKES, CONTACT DEEPROOT FOR ALTERNATIVE
(H) GEOGRID, WRAPPED AROUND PERIMETER OF SYSTEM, WITH 6" TOE (OUTWARD FROM BASE) AND 12" EXCESS (OVER TOP OF DECK)
(I) CABLE TIE ATTACHING GEOGRID TO SILVA CELL AT BASE OF UPPER LEG FLARE, AS NEEDED
(J) PLANTING SOIL, PER PROJECT SPECIFICATIONS, PLACED IN LIFTS AND WALK-IN COMPACTED TO 75-85% PROCTOR
(K) COMPACTED BACKFILL PER PROJECT SPECIFICATIONS
(L) GEOTEXTILE FABRIC TO EDGE OF EXCAVATION
(M) RIBBON CURB AT TREE OPENING (TO BE USED WITH PAVERS OR ASPHALT)
(N) THICKENED EDGE AT TREE OPENING (TO BE USED WITH CONCRETE)
(O) PAVEMENT AND AGGREGATE BASE PER PROJECT *
(P) DEEPROOT ROOT BARRIER, 12" OR 18", DEPTH DETERMINED BY THICKNESS OF PAVEMENT SECTION, INSTALL DIRECTLY ADJACENT TO CONCRETE EDGE RESTRAINT
(Q) PLANTING SOIL BELOW ROOT BALL, COMPACTED WELL TO PREVENT SETTLING
(S) ROOT BALL
(T) TREE OPENING TREATMENT, PER PROJECT SPECIFICATIONS
~~(U) DEEPROOT WATER AND AIR VENT, ROOTBALL, WHEN REQUIRED~~
~~(V) DEEPROOT WATER AND AIR VENT, WHEN REQUIRED~~
(W) UNDERDRAIN SYSTEM, WHEN REQUIRED (LOCATION AND DETAILS BY OTHERS)

*MINIMUM PAVEMENT PROFILE OPTIONS TO MEET H-20 LOADING

PAVEMENT	+ AGGREGATE BASE COURSE
4" CONCRETE	+4" AGGREGATE
3" PAVER	+12" AGGREGATE
4" ASPHALT	+12" AGGREGATE
2.6" PAVER	+5" CONCRETE

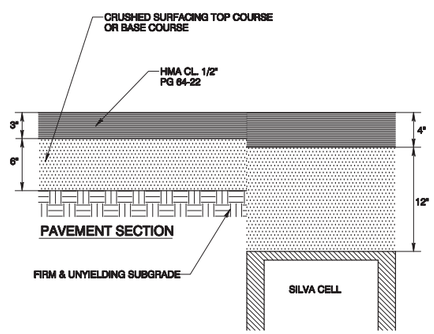
NOTES
1. EXCAVATION SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE HEALTH AND SAFETY REGULATIONS
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
3. PROVIDE SUPPLEMENTAL IRRIGATION
4. DO NOT SCALE DRAWINGS

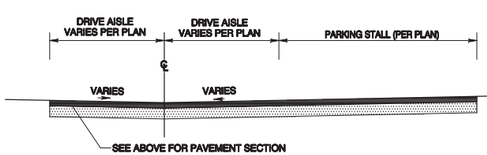
deeproot
DeepRoot Green Infrastructure
www.deeproot.com
T 415 781 9700
F 415 781 9191

SILVA CELL SYSTEM 1X

NOT TO SCALE
INCHES

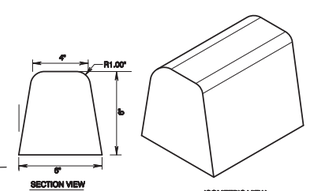
STANDARD — OVER SILVA CELL





PAVING CROSS-SECTION
(NOT TO SCALE)

NOTES:
1. ALL DEPTHS ARE MINIMUM COMPACTED DEPTHS.
2. SUBGRADE PREPARATION SHALL MEET THE REQUIREMENTS OF WSDOT STANDARD SPEC. 2-06.3(1). IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MEET THE COMPACTION REQUIREMENTS AND CONTROL ALL WORK. THE CITY OF PUYALLUP RESERVES THE RIGHT TO REQUIRE COMPLIANCE TESTS AT THE CONTRACTOR'S EXPENSE.
3. SUBBASE MATERIAL SHALL BE GRAVEL BORROW MEETING THE REQUIREMENTS OF WSDOT STANDARD SPEC. OR CRUSHED BALLAST MEETING THE REQUIREMENTS OF WSDOT STANDARD SPEC. 9-03.9(3). CRUSHED SURFACING SHALL MEET THE GRADATION REQUIREMENTS OF WSDOT STANDARD SPEC. 9-03.9(3). THE SUBBASE AND BASE MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT STANDARD SPEC. 4-04.
4. SOIL STABILIZATION FABRIC MAY BE REQUIRED BY THE DEVELOPMENT REVIEW ENGINEER TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE BASE MATERIAL. WHEN REQUIRED, THE CONTRACTOR SHALL PLACE A GEOTEXTILE FABRIC OVER THE PREPARED SUBGRADE WITH A 2 FOOT MINIMUM OVERLAP. THE FABRIC SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
5. ASPHALT CONCRETE PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH WSDOT STANDARD SPEC. 5-04. DESIGN ENGINEER SHALL SUBMIT A STATE APPROVED HMA MIX FOR APPROVAL.
6. TEMPERATURE SHALL NOT EXCEED 325° F AT DISCHARGE OF THE PLANT NOR BE LESS THAN 185° F LEAVING THE SPREADER BOX.
7. THE MAXIMUM COMPACTED THICKNESS OF ANY SINGLE LIFT SHALL MEET WSDOT STANDARD SPEC. 5-04.3(9) TO A MINIMUM AVERAGE COMPACTED DRY DENSITY OF 91 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY WSDOT TEST METHOD SPECIFIED IN STANDARD SPEC. 5-04.3(10)B. PERIODIC COMPLIANCE TESTS SHALL BE MADE BY A CERTIFIED TESTING AGENCY AT THE EXPENSE OF THE CONTRACTOR.
8. THE FACE OF THE GUTTER LIP AND EDGES OF EXISTING ASPHALT MEET LINES SHALL BE TACK COATED PRIOR TO PAVEMENT PLACEMENT. WHEN SUCCESSIVE LIFTS OF ASPHALT ARE REQUIRED, A TACK COAT SHALL BE DISTRIBUTED UNIFORMLY OVER THE PREVIOUS LIFT AT A RATE OF 0.06-0.08 GALLONS PER SQUARE YARD AT A TEMPERATURE OF 100A° F AND SHALL BE ALLOWED TO SET TO A TACKY STATE PRIOR TO THE PLACEMENT OF THE NEXT LIFT.
9. ALL MEET LINES BETWEEN LIFTS OF ASPHALT SHALL BE UNIFORM AND VERTICAL. THE MEET LINES SHALL BE CLEANED AND TACK COATED.
10. ANY CHANGES TO THE STANDARD PAVEMENT SECTION SHALL REQUIRE APPROVAL BY THE DEVELOPMENT REVIEW ENGINEER. A STRUCTURAL PAVEMENT CROSS SECTION DESIGN WITH CALCULATIONS SHALL BE REQUIRED.
11. ALL MANHOLE FRAMES, VALVE FRAMES AND MONUMENT COVERS SHALL BE INSTALLED AFTER PLACEMENT OF ASPHALT. IF MORE THAN ONE LIFT IS NECESSARY, FRAMES AND LIDS WILL BE ADJUSTED TO FINISH GRADE AT FIRST LIFT AS DIRECTED BY THE CITY.



NOTES:
1. CONCRETE SHALL BE CLASS 3000 OR COMMERCIAL WITH AIR-ENTRAINMENT.
2. CONCRETE TO BE ANCHORED WITH ADHESIVE MEETING REQUIREMENTS OF SECTION 9-20 OF THE WSDOT/APWA STANDARD SPECIFICATIONS FOR TYPE II EPOXY RESIN.
3. CONTROL JOINTS SHALL BE PLACED NOT TO EXCEED 10' CLS.

EXTRUDED CURB DETAIL

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY: _____
CITY OF PUYALLUP
DEVELOPMENT SERVICES

DATE: 12/13/2024

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 ENGINEERING SERVICES MANAGER.

11/1/2024
ROBERT A. TRAVITT
STATE OF WASHINGTON
43715
REGISTERED PROFESSIONAL ENGINEER

REVISION	DATE
1 Revised per City review. Switch to permeable pavement.	1/9/24
2 Revised per City review.	6/18/24
3 Revised per City review.	7/1/24
4 Revised to full dimension.	10/31/24
5	
6	
7	
8	
9	
10	

JOB NO: 2505
DATE: JULY 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: JT
APPROVED BY: Paul Green

Details

Taco Time

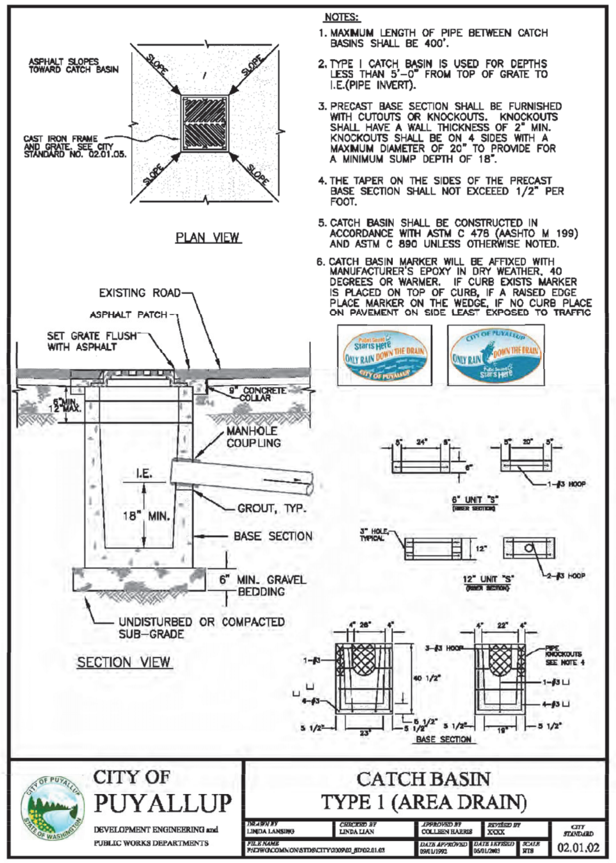
Taco Time NW
3401 Lind Ave SW
Renton, WA, 98057
Phone 206.255.3839
Fax rtonkin@tacotimenw.com

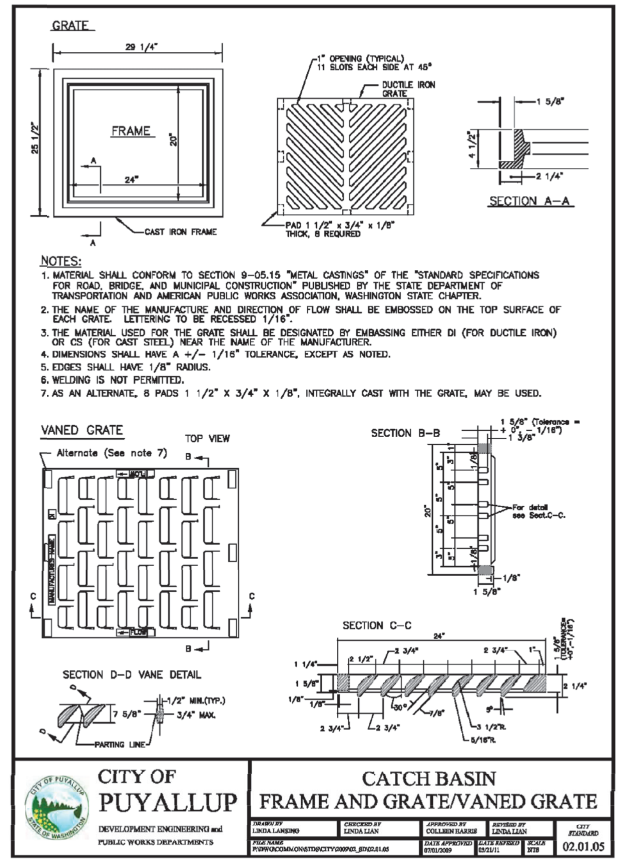
AZURE GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3142

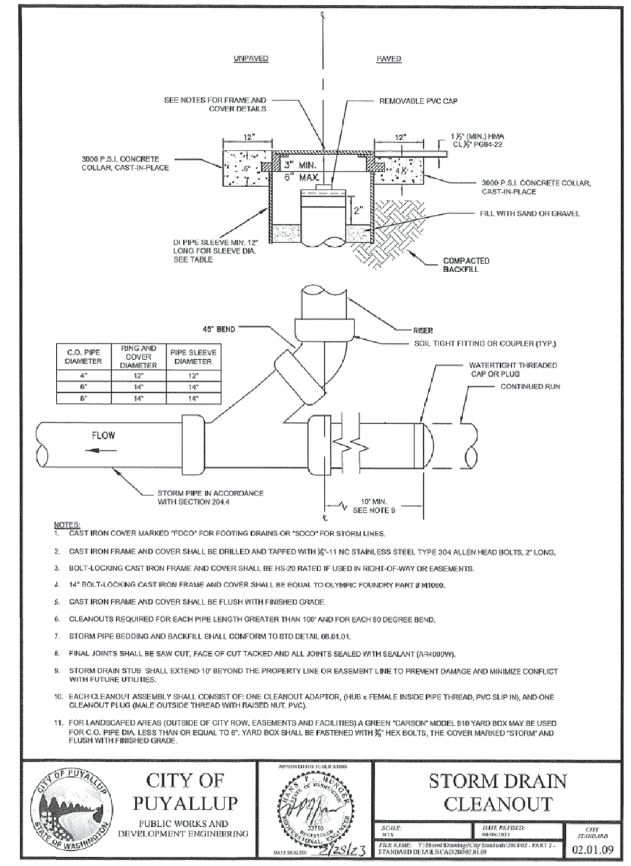
DRAWING
C-11
SHEET 11
OF 16

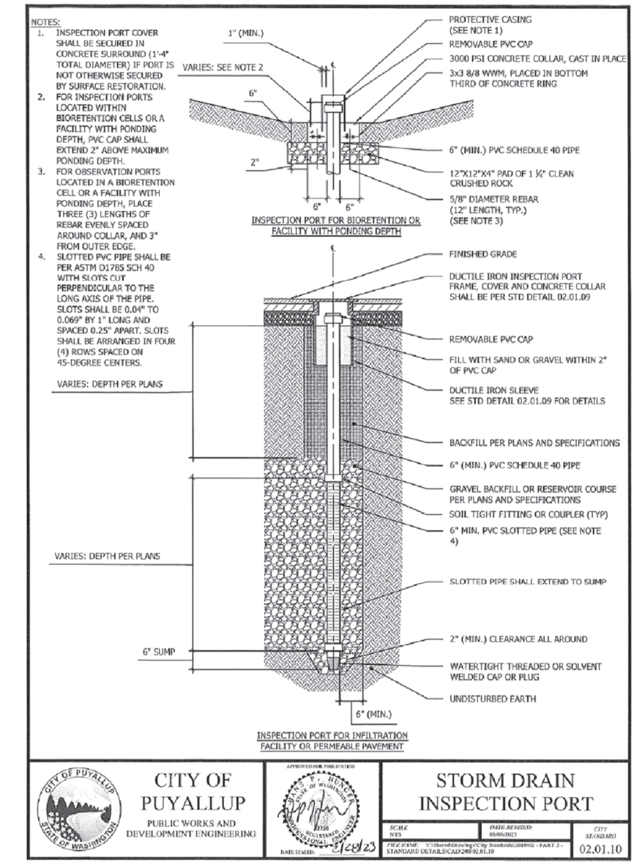
Taco Time

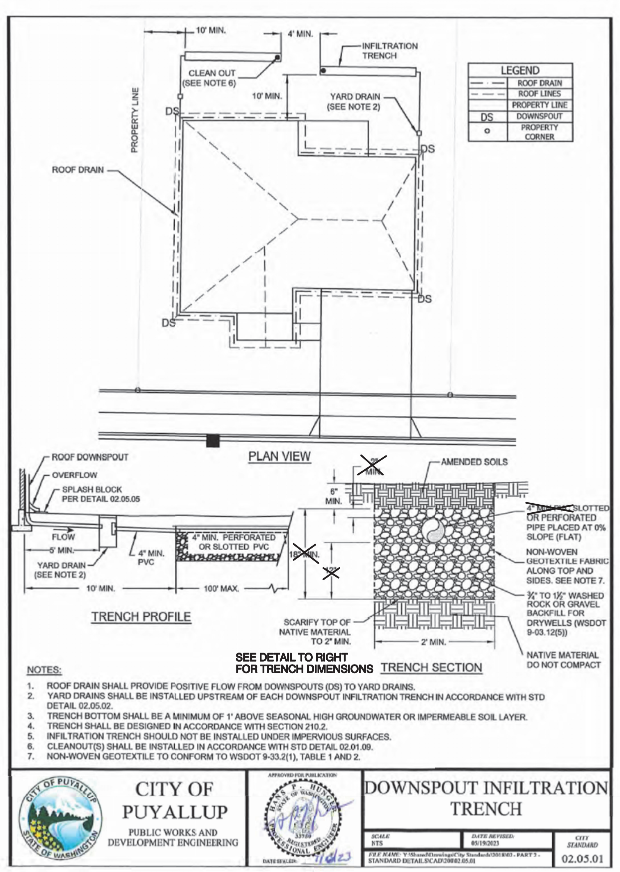
Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington

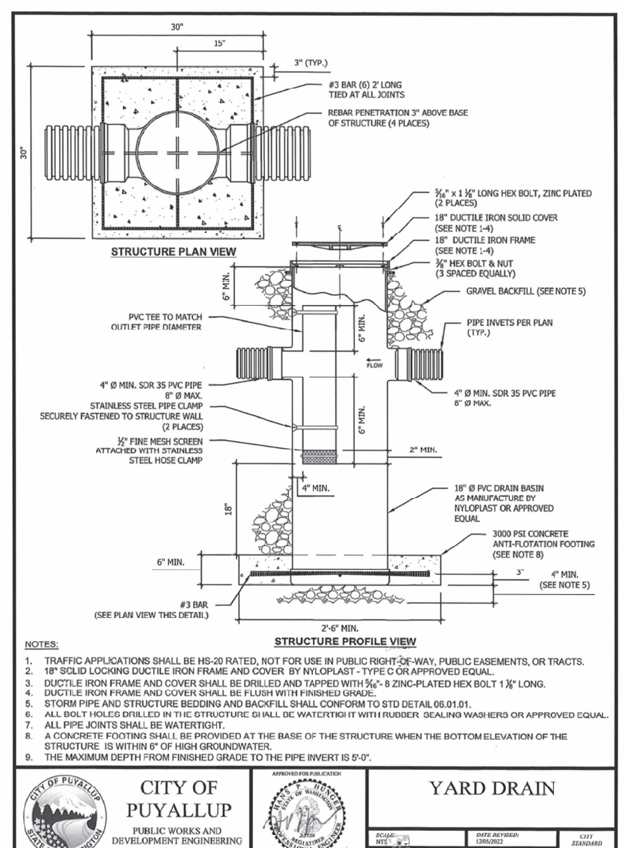


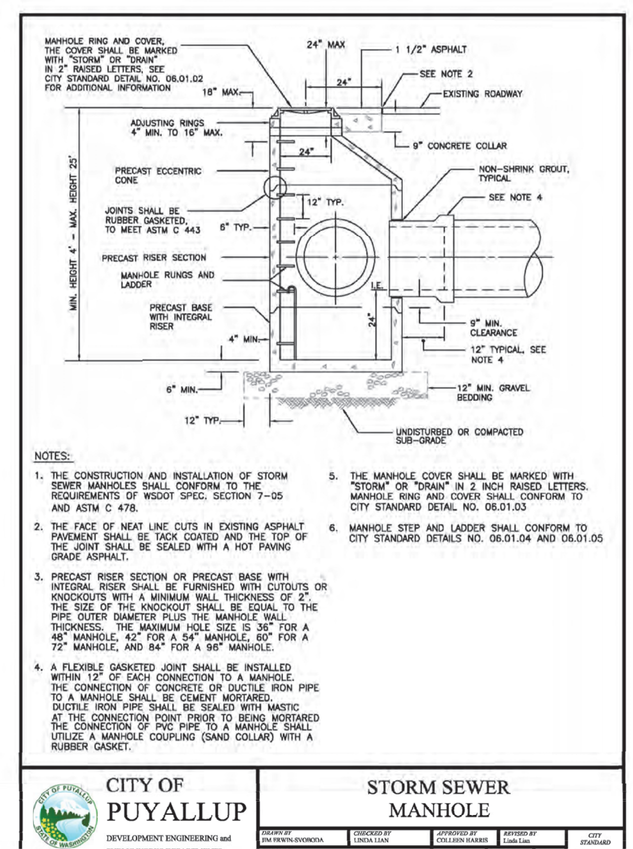


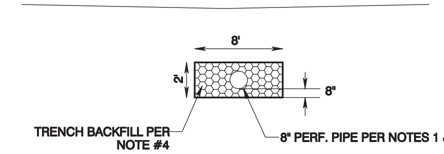












NOTES:

1. PERF. PIPE MATERIAL SHALL BE: HDPE, SPSSP, OR APPROVED EQUAL.
2. PERFORATIONS MUST BE DOWNWARD FACING.
3. TRENCH SHALL BE LINED WITH AMOCCO #4553, GEOTEX 801 OR EQUAL, FILTER FABRIC. ALL SIDES SHALL BE WRAPPED. OVERLAP MINIMUM 18".
4. BACKFILL TRENCH WITH 3/4" TO 1-1/2" DRAIN ROCK EQUIVALENT TO WSDOT SPEC. 9-03.12(5).

INFILTRATION TRENCH
NOT-TO-SCALE

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY: CITY OF PUYALLUP DEVELOPMENT SERVICES

DATE: 12/13/2024

NOTE:

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ROBERT A. TRIVITT — STATE OF WASHINGTON — 43715 — REGISTERED PROFESSIONAL ENGINEER — 12/3/2024

REVISION	DATE
1 Revised per City review.	1/9/24
2 Revised per City review, switch to permeable pavement.	6/18/24
3 Revised per City review.	9/11/24
4 Revised to full dispersion.	10/31/24
5 Add to tree protectin, clarify Type 2, update infil. details. C-3,-4,-8,-12, &-13.	12/3/24
6	
7	
8	
9	
10	

JOB NO: 2935
DATE: July 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Trivitt
CHECKED BY: Jim Job
APPROVED BY: Paul Green

AZURE | GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3142

Storm Details

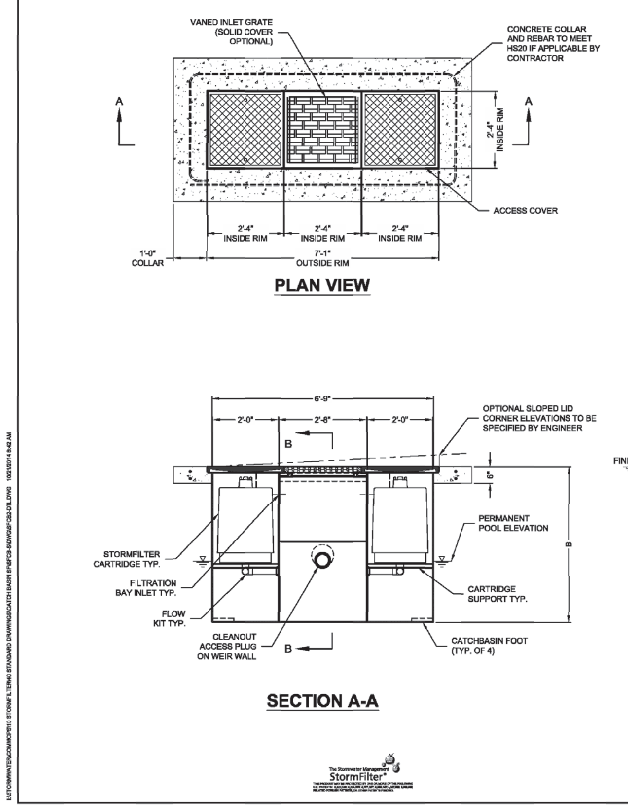
Taco Time

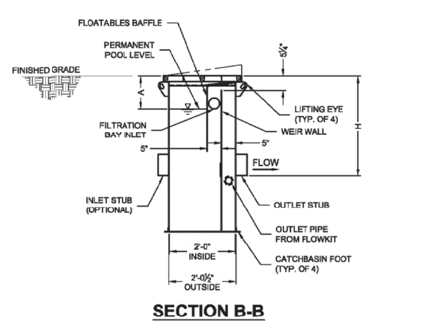
Puyallup TT, LLC
3401 Lind Ave SW
Renton, WA, 98057
Phone 206.255.3633
Fax rtonkin@tacotimenw.com

DRAWING
C-12

Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington





STORMFILTER CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 2 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF TWO CARTRIDGES. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL.
PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"		18"		18" DEEP	
MINIMUM HYDRAULIC DROP (H)	3.05'		2.3'		3.3'	
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²	2 gpm/ft²	1 gpm/ft²
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15	7.5	15	7.5
PEAK HYDRAULIC CAPACITY	1.0		1.0		1.8	
INLET PERMANENT POOL LEVEL (A)	1'-0"		1'-0"		2'-0"	
OVERALL STRUCTURE HEIGHT (B)	4'-9"		3'-9"		4'-9"	

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
5. STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
6. STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH QUANTITY (2) #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
7. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 37 SECONDS.
8. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

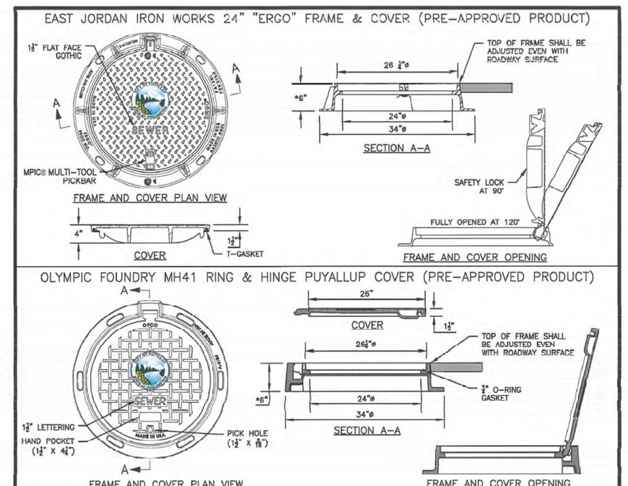
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

2-CARTRIDGE DEEP CATCHBASIN STORMFILTER DATA

STRUCTURE ID		XXX
WATER QUALITY FLOW RATE (cfs)		X.XX
PEAK FLOW RATE (<1.8 cfs)		X.XX
RETURN PERIOD OF PEAK FLOW (yrs)		XXX
CARTRIDGE FLOW RATE (gpm)		XX
MEDIA TYPE (CSF, PERLITE, ZPG, GAC, PHS)		XXXXX
RIM ELEVATION		XXX.XX'
PIPE DATA:	I.E.	DIAMETER
INLET STUB	XXX.XX'	XX"
OUTLET STUB	XXX.XX'	XX"
CONFIGURATIONS		
SLOPED LID		YES\NO
SOLID COVER		YES\NO
NOTES/SPECIAL REQUIREMENTS:		

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com

2 CARTRIDGE CATCHBASIN STORMFILTER STANDARD DETAIL



NOTES:
1. EAST JORDAN IRON WORKS 24" "ERGO" AND OLYMPIC FOUNDRY MH41 RING & HINGE PUYALLUP COVER ARE PRE-APPROVED PRODUCTS AND SHALL BE USED FOR PUBLICLY-OWNED INFRASTRUCTURE. ALL OTHERS REQUIRE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION.
2. MANHOLE FRAME AND COVERS SHOULD NOT BE LOCATED IN PEDESTRIAN PATHWAYS (E.G. SIDEWALKS, CROSSWALKS, ETC.). WHERE EXISTING OR PROPOSED CONDITIONS REQUIRE A MANHOLE FRAME AND COVER TO BE INSTALLED WITHIN A PEDESTRIAN PATHWAY, THE MANHOLE FRAME AND COVER SHALL BE ADA COMPLIANT.
3. NON-ROCKING FIT FOR MANHOLE COVERS.
4. CASTING TO BE SHOT BLASTED AND FREE FROM SURFACE SAND AND SCALE.
5. CASTING TO BE SMOOTH, TRUE TO PATTERN, FREE FROM BLOWHOLES, POROSITY HARD SPOTS, SHRINK HOLES, WARP, OR ANY OTHER DEFECTS WHICH COULD IMPAIR SERVICEABILITY.
6. CASTINGS SHALL BE UNCOATED.
7. FOR STORM APPLICATIONS CAST LETTERS SHALL READ "STORM".
8. INSTALL FRAME AND COVER IN ROADWAY WITH HINGED SIDE OF ASSEMBLY POINTED TOWARD ONCOMING TRAFFIC.
9. THE CITY SHALL HAVE THE RIGHT TO REQUIRE INSPECTION AND APPROVAL OF ALL CASTINGS PRIOR TO PAINTING.
10. REPAIR OR DEFECTS BY WELDING, OR BY THE USE OF "SMOOTH-ON" OR SIMILAR MATERIAL WILL NOT BE PERMITTED.
11. MANHOLE RING AND COVER SHALL BE FREE OF POROSITY, SHRINK CAVITIES, COLD SHUTS OR CRACKS OR ANY SURFACE DEFECTS WHICH WOULD IMPAIR SERVICEABILITY.

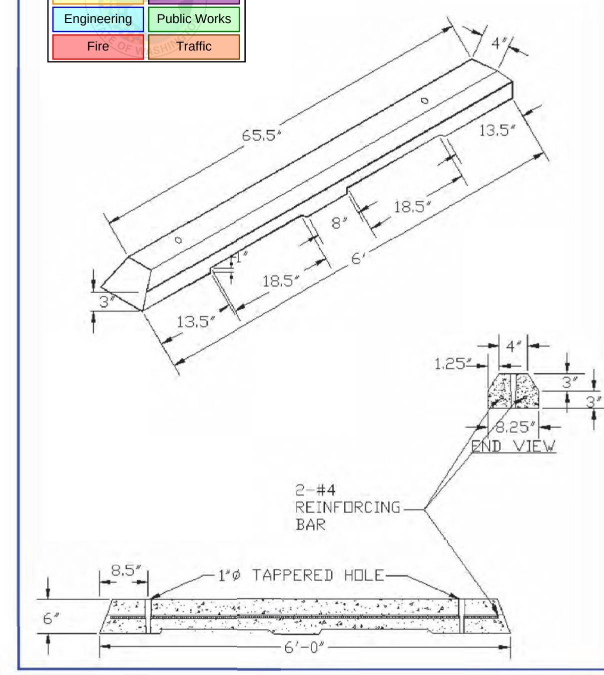
* FRAME HEIGHT MAY BE 4" FOR OVERLAYS AND PAVEMENT REHABILITATION PROJECTS, WITH WRITTEN APPROVAL BY THE CITY ENGINEER.

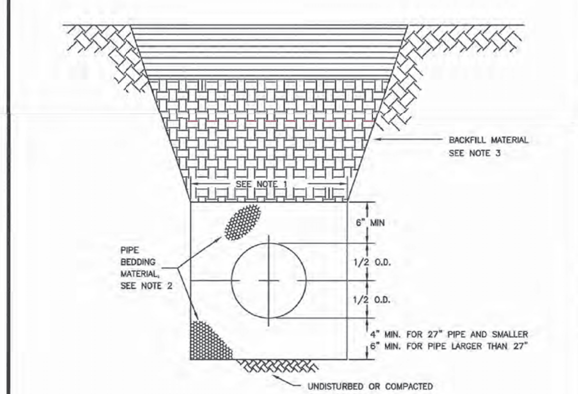
CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER
APPROVED FOR PUBLICATION
DATE SEALED: 2/5/2018
MANHOLE FRAME AND COVER
(NOT TO SCALE)
CITY STANDARD 06.01.02

PARKING LOT WHEEL STOPS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic





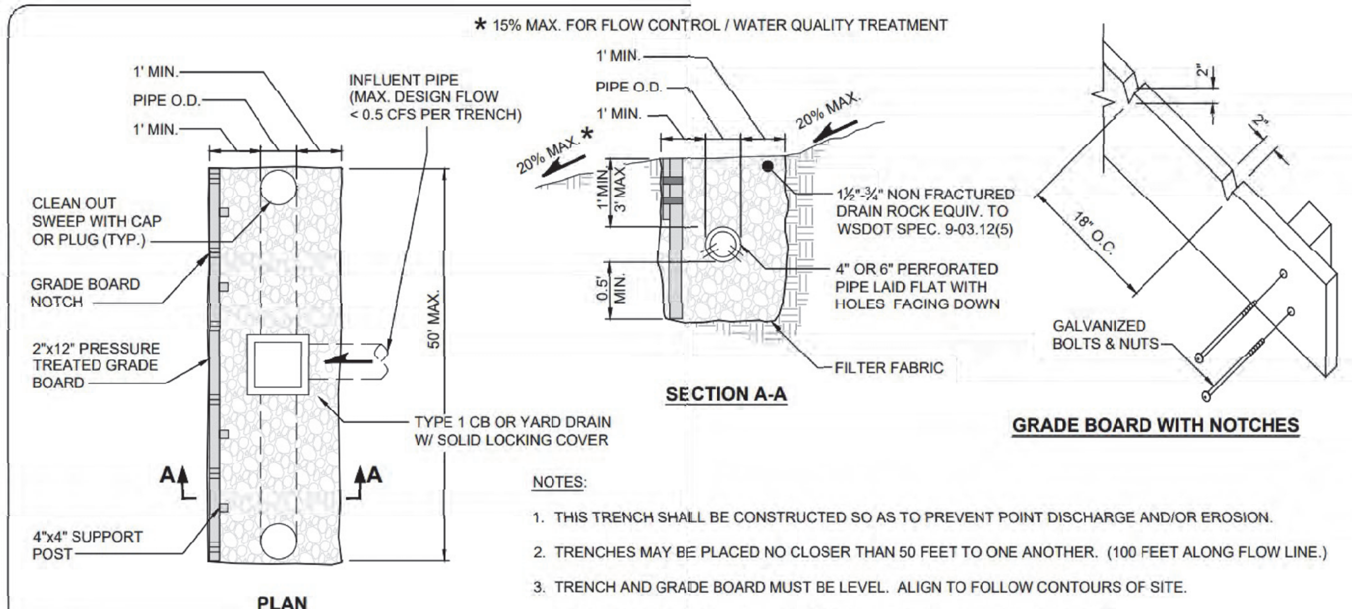
1. TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(1)A AND 2-06.3(1) OF THE WSDOT SPECIFICATIONS.
2. BEDDING MATERIAL SHALL CONFORM TO 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
3. GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR FOUNDATIONS, CLASS A.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER
PIPE TRENCHING BEDDING AND BACKFILL

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	DATE REVISED:	CITY STANDARD
JIM ERWIN-SVOBODA	TED HILL	MARK PALMER	V STOCKMAN	03/21/11 02/15/17 XX/XX/XX XX/XX/XX	06.01.01
FILE NAME F:\DWG\COMMON\STDS\CITYSTDS\06_MISC\06.01\06.01.01		DATE APPROVED 07/01/2009	SCALE 1:1		

DATE SEALED: 2/17/17

* 15% MAX. FOR FLOW CONTROL / WATER QUALITY TREATMENT



NOTES:
1. THIS TRENCH SHALL BE CONSTRUCTED SO AS TO PREVENT POINT DISCHARGE AND/OR EROSION.
2. TRENCHES MAY BE PLACED NO CLOSER THAN 50 FEET TO ONE ANOTHER. (100 FEET ALONG FLOW LINE.)
3. TRENCH AND GRADE BOARD MUST BE LEVEL. ALIGN TO FOLLOW CONTOURS OF SITE.
4. GRADE BOARD SUPPORT POST SPACING AS REQUIRED BY SOIL CONDITIONS.
5. THE END OF EACH PIPE RUN SHALL HAVE AN ACCESSIBLE CLEAN OUT SWEEP. PIPE END SHOULD BE VISIBLE OR THE LOCATION STAKED.

Pierce County
Planning and Public Works
2401 S 35th St.
Tacoma, Washington 98409

FLOW DISPERSION TRENCH
SECTION A - 1.0

ORDINANCE: 2021-45
EFFECTIVE DATE: 7/1/2021

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 Depatiment of Transpoliation 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 inveli 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 pipe, 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 I5-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.

APPROVED
BY: CITY OF PUYALLUP DEVELOPMENT SERVICES
DATE: 12/13/2024

NOTE:
THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
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FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

ROBERT A. TRIVITT
STATE OF WASHINGTON
43715
REGISTERED PROFESSIONAL ENGINEER
12/3/2024

REVISION	DATE
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JOB NO: 2935
DATE: July 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Trivitt
CHECKED BY: Jim Job
APPROVED BY: Paul Green

AZURE|GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3142

Storm & Water Details

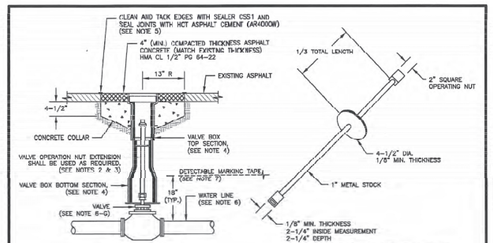
Taco Time

Puyallup TT, LLC
3401 Lind Ave SW
Renton, WA, 98057
Phone 206.255.3633
Fax rtonkin@tacotimenw.com

DRAWING
C-13
SHEET 13 OF 16

Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington



WATER VALVE DETAIL
NOT TO SCALE

VALVE OPERATING NUT EXTENSION DETAIL
NOT TO SCALE

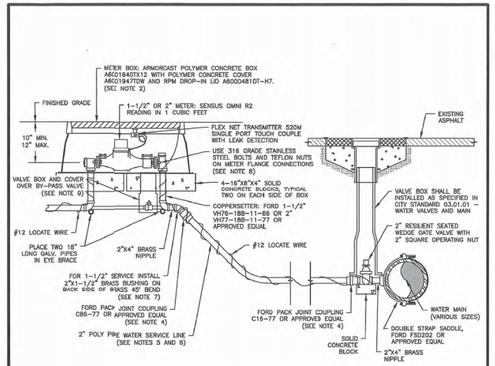
NOTES:

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 GRADE.
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 WARREN #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 AS MODIFIED 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 MORTER 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 (IF 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.
7. DETECTABLE MARKING TAPE SHALL BE INSTALLED 18" ABOVE PIPE, BE BLUE IN COLOR, AND READ "CAUTION WATER LINE BELOW" MEETING WSDOT SPEC. 9-15.1R.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

APPROVED FOR PUBLICATION
DATE MAILED: 2/5/2019

WATER VALVES AND MAINS
CITY STANDARD 03.01.01



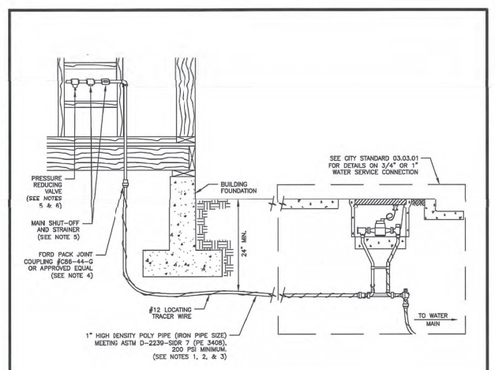
NOTES:

1. ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR AN APPROVED EQUAL.
2. NORMALLY THE WATER METER BOX SHOULD BE LOCATED IN THE PLANTING STRIP. IF SIDEWALK IS AGAINST THE CURB, PLACE METER BOX DIRECTLY BEHIND THE SIDEWALK. THE WATER METER BOX SHALL NOT BE LOCATED IN HARD SURFACES. WHEN UNAVOIDABLE, EXCEPTIONS CAN BE MADE AT END OF CUL-DE-SACS OR PAN HANDLED LOTS.
3. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
4. ALL POLY PIPE COUPLINGS SHALL USE PIPE INSERT STIFFENERS.
5. THE WATER SERVICE LINE SHALL BE BEDDED IN WASHED SAND WITH 36" OF COVER BELOW FINISHED GRADE WITHIN THE RIGHT-OF-WAY. THE WATER SERVICE LINE SHALL BE ONE CONTINUOUS PIECE WITH NO SPLICES.
6. ALL POLY PIPE SHALL BE HIGH DENSITY POLY (IRON PIPE SIZE) MEETING ASTM D-2239-SIDR 7, BLUE IN COLOR, 200 PSI MINIMUM.
7. FOR A 1-1/2" WATER SERVICE, ALL MATERIAL SHALL BE 2" FROM THE WATER MAIN TO THE COPPERSETTER. REDUCE FROM 2" TO 1-1/2" IMMEDIATELY BEFORE COPPERSETTER.
8. THE STAINLESS STEEL METER FLANGE BOLTS SHALL BE 5/8" DIAMETER FOR THE 1-1/2" METER, AND 3/4" DIAMETER FOR THE 2" METER.
9. PROVIDE A 6" CIRCULAR VALVE BOX WITH COVER (APPLIED ENGINEERING PRODUCT MODEL 708 WITH GREEN LID OR AN APPROVED EQUAL) OVER BY-PASS VALVE.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

APPROVED FOR PUBLICATION
DATE MAILED: 10/6/2021

1-1/2" AND 2" WATER SERVICE CONNECTION
CITY STANDARD 03.03.02



NOTES

1. SERVICE LINE MAY BE 200 PSI POLY PIPE IN UNCONTAMINATED SOILS. IN SOILS THAT MAY CONTAIN HYDROCARBONS USE 1" "K" COPPER PIPE.
2. PIPE TO BE BEDDED WITH MATERIAL FREE OF ROCKS.
3. POLY PIPE SHOULD BE PLACED IN THE TRENCH IN A SNAKELIKE FASHION (NOT STRAIGHT WITHOUT SLACK). THIS WILL ACCOMMODATE GROUND MOVEMENT AND KEEP PRESSURE OFF THE FITTINGS.
4. PLASTIC WATER SERVICE PIPING MAY TERMINATE WITHIN A BUILDING, PROVIDED THE CONNECTION TO THE POTABLE WATER DISTRIBUTION SYSTEM SHALL BE ACCESSIBLE. SEE THE CURRENT UNIFORM PLUMBING CODE FOR MORE INFORMATION.
5. THE MAIN SHUT-OFF VALVE, PRESSURE REDUCING VALVE, AND STRAINER SHALL BE LOCATED INSIDE THE BUILDING IN AN ACCESSIBLE LOCATION. THEY SHOULD BE LOCATED BEFORE ANY BRANCH CONNECTIONS, AND PROTECTED FROM FREEZING. THE MAIN SHUT-OFF VALVE SHALL BE BRASS.
6. ALL PROPERTIES WITH WATER SERVICE CONNECTIONS LOCATED SOUTH OF 15TH AVE SE AND SOUTH OF 15TH AVE SW SHALL HAVE AN APPROVED PRIVATELY OWNED AND PRIVATELY MAINTAINED PRESSURE REDUCING VALVE (PRV) LOCATED ON THEIR WATER SERVICE LINE.
7. ALL PROPERTIES WITH IRRIGATION BRANCH CONNECTIONS LOCATED SOUTH OF 15TH AVE SE AND SOUTH OF 15TH AVE SW SHALL HAVE AN APPROVED PRIVATELY OWNED AND PRIVATELY MAINTAINED PRESSURE REDUCING VALVE (PRV) LOCATED ON THEIR IRRIGATION BRANCH LINE.
8. ALL INSTALLATIONS WITHIN TWO (2') FEET OF THE BUILDING SHALL COMPLY WITH THE CURRENT UNIFORM PLUMBING CODE.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

APPROVED FOR PUBLICATION
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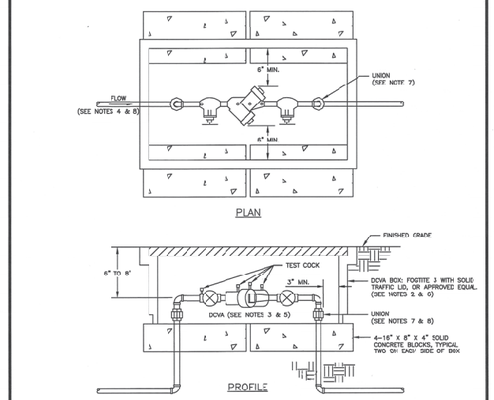
PRIVATE WATER SERVICE LINES
CITY STANDARD 03.03.04



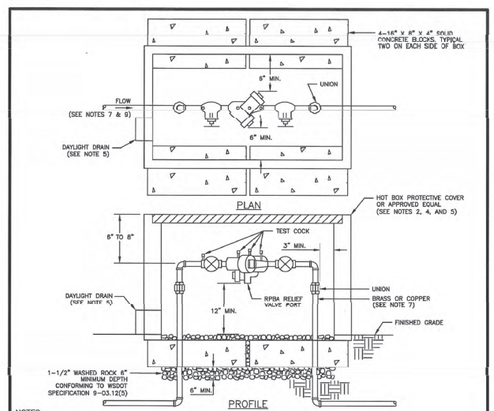
NOTES:

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 DCVA 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. DCVA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.
4. DCVA SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF WATER METER. WHEN IRRIGATION SYSTEM IS CONNECTED OFF DOMESTIC WATER LINE, IRRIGATION DCVA SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF THE BRANCH CONNECTION.
5. DCVA SHALL BE SIZED EQUAL OR COMPARABLE TO METER SIZE.
6. METER BOX SHALL BE LARGE ENOUGH TO ALLOW THE MINIMUM SETBACKS ILLUSTRATED ABOVE. METER BOX LID SHALL BE A TRAFFIC LID WITH A H-20 LOADING.
7. DIELECTRIC UNIONS MUST BE USED TO SEPARATE DISSIMILAR MATERIALS.
8. USE ONLY BRASS OR COPPER BETWEEN THE METER AND THE UNION ON THE CUSTOMER'S SIDE OF THE DCVA.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

APPROVED FOR PUBLICATION
DATE MAILED: 2/5/2019

2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLY INSTALLATION
CITY STANDARD 03.04.01



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 MAILED: 2/5/2019

2" AND SMALLER REDUCED PRESSURE BACKFLOW ASSEMBLY INSTALLATION
CITY STANDARD 03.04.02

WATER SYSTEM 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 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, in addition, as 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. Hydraulic fire flow modeling shall be required for formal plats within or to be annexed into the City of Puyallup's water service area. The developer shall be responsible to apply for a hydraulic model permit prior to plat review. The hydraulic modeling criteria is based on the projected water demand while maintaining a minimum system pressure of 20 pounds per square inch (PSI) and a maximum velocity of 10 feet per second.

23. When using a fire hydrant for non-firefighting purposes, a city hydrant meter must be used. Coordinate the acquisition of the hydrant meter with the City s Utility Billing Division at Puyallup City Hall. A city approved backflow protection assembly shall be installed by the person requesting use of a fire hydrant. The assembly shall be accompanied by a current backflow assembly test report. The test report shall be available at the site for the duration of the hydrant use.

24. Should a break occur on any City water main, the Contractor shall follow the City s adopted Water Main Break Procedure issued to them at the Pre-Construction Meeting and notify those connected to the system in the impacted area as outlined in the Procedure.

25. Water Main Repairs (References: AWWA C651-14 and WSDOT Standard Specification Section 7-09) (Note: A planned water main repair shall be approved by the City Inspector and/or Water Division Supervisor prior to commencing work.)
   a. Repair without depressurization Small leaks shall be repaired using repair bands while maintaining positive pressure in the water main. Valves surrounding the leak will be partially shut by the City Water Department to reduce the flow and pressure to the area. Blowoffs and hydrants in the reduced pressure area may be opened as needed to further reduce the pressure. The water main trench shall be over-excavated to allow water in the trench to be pumped out and maintained below the level of the water main. The repair shall be completed with the water main pressure remaining positive. After the repair is made, the system shall be fully pressurized and a visual leak inspection will be completed. The water main in the affected area shall be flushed to achieve three pipe volumes pulled from the pipe (distance measured from valve opened for flushing to the exit hydrant or blowoff).
   b. Repair/cut-in with depressurization Trench shall be over excavated and dewatered below the water main. Flush water from pipe from each direction until it runs clear. Immediately prior to installation of a new pipe section for repair or cut in tee, all new fittings and pipe spools shall be swabbed with a five percent (5%) chlorine solution (minimum). The interior of the existing pipe shall be swabbed with a five percent (5%) chlorine solution at least 6 feet in each direction from exposed cut ends. The water main in the affected area shall be flushed to achieve three pipe volumes pulled from the pipe (distance measured from the valve opened for flushing to the exit hydrant or blowoff). Customers shall be notified after the water main is flushed and repairs have been completed, as outlined in the Water Main Break Procedure.

26. New Water Main Installation:
   a. Each new water main section shall be delivered, stacked and stored onsite with ends plugged. The plugs shall remain in the pipe until each particular section is installed. National Sanitation Foundation (NSF) approved sixty-five percent (65%) calcium hypochlorite shall be added to the upstream end of each pipe section, and at each hydrant tee in the amount given in the table below (or per approved manufacturer specifications). The minimum amount of calcium hypochlorite added should be sufficient to achieve a 50 mg/L concentration within the impacted area.

Pipe Diameter (Inches)	Pipe Volume per 18 feet (gal)	5-gram tablets per pipe section	Hypochlorite Granules Ounces per 500 feet	Teaspoons per 18 feet	Maximum Fill Rate (gpm)
4	35	1	1.7	0.2	40
6	53	1	3.8	0.4	90
8	70	2	6.7	0.7	150
12	106	4	15.1	1.4	350
16	141	6	27	2.5	600

   b. New water mains shall be filled using an approved backflow prevention assembly. The water main shall be filled from the lower elevation end so that as the water main is filled, the chorine is contacted, dissolved and spread relatively uniform through the length of the new water main. The fill rate shall be minimized so that the velocity of the water is less than 1 ft/sec (see table above). Successful pressure test and bacteriological tests shall be completed and provided to the City prior to any new mater main connection to the existing water system.
   c. The chlorinated water will be allowed to remain in contact with the new water main system for 24 to 72 hours. After 24 hours, water may be added to the water main for the purposes of pressure testing. The water in the main used for pressure testing must remain in the water main until pressure test is completed. If necessary, liquid chlorine shall be injected into the water main with fill water to maintain a concentration in the water main above 50 mg/L. Under no circumstance shall super chlorinated water be allowed to sit within a new water main for more than 5 days.
   d. Pressure testing includes testing against new valves and hydrants. Each valve shall be tested by closing each in turn and reducing the pressure beyond the valve. The pressure on the back side of the valve should not be eliminated. Care must be taken that, during this process, positive pressure remains throughout the system being tested at all times. All hydrant foot valves shall be open during pressure testing so that the pressure test is against the hydrant valve. Pressure testing will not be allowed against any existing valves.
   e. After successful pressure testing, the water main shall be thoroughly flushed to remove all super chlorinated water from the new water main. Flushing of new or extended water mains shall be conducted per WSDOT Specification 7-09.3 (24)A with a minimum velocity developed within the pipe while flushing of 2.5 feet per second (fps). All flushed water shall be dechlorinated prior to disposal. The Contractor shall be responsible for disposal of all chlorinated water flushed from mains. The City shall approve the disposal method prior to implementation in the field. The Contractor shall utilize 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.

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

APPROVED
BY: _____
CITY OF PUYALLUP
DEVELOPMENT SERVICES
DATE: 12/13/2024

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 ENGINEERING SERVICES MANAGER.

11/1/2024
ROBERT A. TRAVITT
STATE OF WASHINGTON
43715
REGISTERED PROFESSIONAL ENGINEER

REVISION	DATE
1 Revised per City review.	1/9/24
2 Revised per City review. Switch to permeable pavement.	6/18/24
3 Revised to full dimension.	10/31/24
4 Revised to full dimension.	
5	
6	
7	
8	
9	
10	

JOB NO: 2515
DATE: July 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Rob Travitt
APPROVED BY: Paul Green

AZURE | GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3142

Water Details

Taco Time

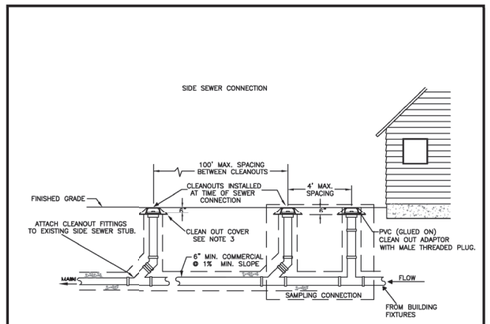
Taco Time NW
3401 Lind Ave SW
Renton, WA, 98057
Phone 206.255.3833
Fax rtonkin@tacotimenw.com

DRAWING
C-14
SHEET 14 OF 16

Project Desc.: Taco Time Path: F:\Jobs\2515 - Taco Time\Travis\taco 2024 101.pro Plot Date/Time: 11/1/2024 7:21:20AM

Taco Time

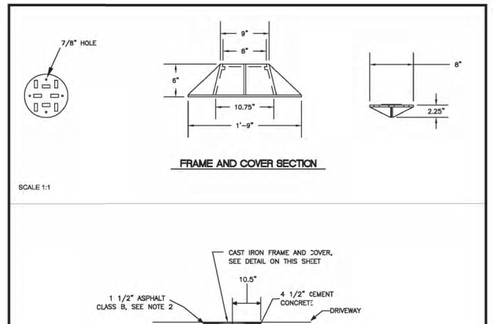
Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington



NOTES:

1. SAMPLING CONNECTION SHALL BE INSTALLED OUT SIDE WITH UNOBSTRUCTED ACCESS AT ALL TIMES.
2. A SAMPLING CONNECTION SHALL BE INSTALLED FOR EACH COMMERCIAL / RETAIL UNIT OF SPACE.
3. CLEAN OUT AND SAMPLING CONNECTION COVERS:
   A) FOR NON-VEHICULAR TRAFFIC INSTALLATIONS USE "CARSON" MODEL #1010 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 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 — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	COMMERCIAL SIDE SEWER CONNECTION WITH SAMPLING CONNECTION					
DRAWN BY: DOMINIK SYOKODA	CHECKED BY: LINDA LUAN	APPROVED BY: COLLEEN HARKER	REVISED BY: LINDA LUAN		CITY STANDARD	
FILE NAME: P:\DWG\CAD\DESIGNSTDS\CITYSTDS\04_SS\04.03.04.dwg	DATE APPROVED: 07/01/2009	DATE REVISED: 03/31/11	SCALE: 1:1		04.03.04	

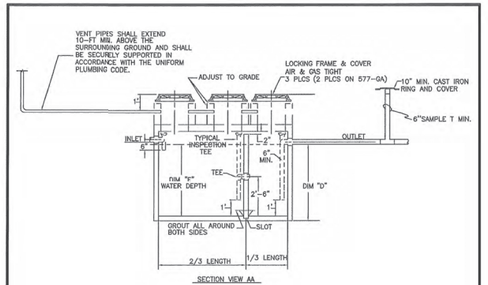


NOTES

1. NEAT LINE CUT SHALL BE SEALED AT THE TOP WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
2. ALL MATERIAL SHALL CONFORM TO THE 1991 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER.
3. MACHINE BEARING FACES OF FRAME AND COVER TO INSURE POSITIVE FIT.
4. EACH CLEAN OUT ASSEMBLY SHALL CONSIST OF: ONE CLEAN OUT ADAPTOR (HUB X FEMALE INSIDE PIPE THREAD, P.V.C. SLIP IN), AND ONE CLEAN OUT PLUG (MALE OUTSIDE PIPE THREAD WITH RAISED NUT, P.V.C. SDR35).

SCALE 1:2

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	SIDE SEWER CLEAN OUT WHEN PLACED IN DRIVEWAY					
DRAWN BY: LINDA LUAN	CHECKED BY: LINDA LUAN	APPROVED BY: COLLEEN HARKER	REVISED BY: LINDA LUAN		CITY STANDARD	
FILE NAME: P:\DWG\CAD\DESIGNSTDS\CITYSTDS\04_SS\04.03.05.dwg	DATE APPROVED: 07/01/2009	DATE REVISED: XX/XX/XX	SCALE: 1:1		04.03.05	



CAPACITY	DIM "A"	DIM "B"	DIM "C"	DIM "D"	WATER DEPTH DIM "X"
750 (Min. Size)	7'-0"	4'-8"	7'-0"	4'-3"	3'-11"
1000	9'-0"	5'-0"	7'-2"	4'-0"	3'-10"
1500	11'-2"	5'-8"	7'-2"	4'-3"	3'-11"
2000	12'-8"	6'-8"	8'-0"	4'-2"	3'-10"
2500	12'-8"	6'-8"	8'-0"	5'-6"	4'-9"
3000	13'-1"	8'-0"	8'-7"	5'-1"	4'-8"
4000	13'-1"	8'-0"	8'-7"	6'-6"	6'-3"
5000	15'-7"	9'-7"	10'-0"	7'-4"	6'-1"
6000	19'-11"	9'-11"	10'-5"	7'-1"	5'-8"
7000	19'-11"	9'-11"	10'-5"	8'-0"	6'-7"

NOTES:

1. CONCRETE: 28 DAY COMPRESSIVE STRENGTH f'c = 4500 psi
2. REBAR: ASTM A-615 GRADE 60
3. MESH: ASTM A-185 GRADE 65
4. DESIGN: ACI-318-83 BUILDING CODE
   ASTM C-857 "MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES"
5. MINIMUM VAULT DIMENSIONS BASED ON UTILITY VAULT. OTHER MANUFACTURER'S SIZING MAY VARY.

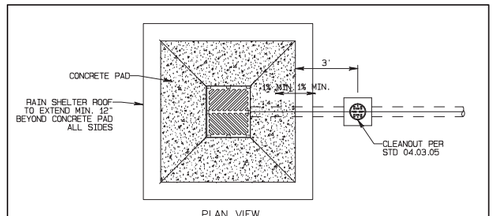
* SEE CITY STANDARD DETAIL NO. 04.06.02 FOR ADDITIONAL NOTES

CITY OF PUYALLUP — OFFICE of THE CITY ENGINEER	GREASE INTERCEPTOR					
DRAWN BY: LINDA LUAN	CHECKED BY: LINDA LUAN	APPROVED BY: SHANE BATESON	REVISED BY: LINDA LUAN	DATE: 11/30/16	SCALE: NONE	
FILE NAME: P:\DWG\CAD\DESIGNSTDS\CITYSTDS\04_SS\04.06.01.dwg	DATE APPROVED: 07/01/2009	DATE REVISED: XX/XX/XX	SCALE: 1:1		04.06.01	

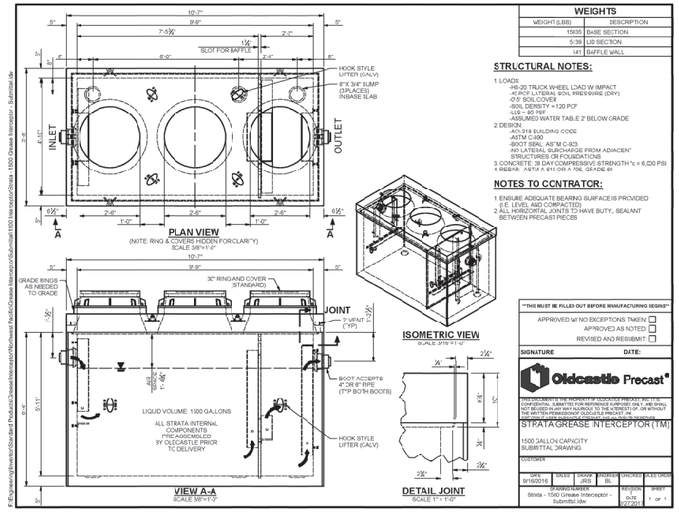
NOTES FOR GREASE INTERCEPTORS:

1. THE PLANS & SPECIFICATIONS SHALL ILLUSTRATE PROPERTY BOUNDARIES, PIPING/DRAINAGE DETAILS AND CONNECTIONS TO THE SANITARY SEWER. DETAIL AND ELEVATION DRAWINGS OF THE GREASE INTERCEPTOR SHALL INCLUDE SIZING CALCULATIONS IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE CURRENTLY ADOPTED BY THE CITY OF PUYALLUP.
2. VENTING OF THE INTERCEPTOR SHALL BE IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE CURRENTLY ADOPTED BY THE CITY OF PUYALLUP.
3. EFFLUENT FROM GREASE INTERCEPTORS SHALL NOT EXCEED 100 mg/L FAT, OIL, AND/OR GREASE DISCHARGED TO THE DOWNSTREAM SANITARY SEWER SYSTEM.
4. GREASE INTERCEPTORS INSTALLED IN PAVED AREAS SHALL COMPLY WITH H-20 LOADING CRITERIA.
5. THE GREASE INTERCEPTOR SHALL BE INSTALLED AND CONNNECTED SUCH THAT IT SHALL BE EASILY ACCESSIBLE FOR INSPECTION, CLEANING, AND REMOVAL AT ALL TIMES. MANHOLE COVERS SHALL BE GAS TIGHT AND HAVE A MINIMUM OPENING OF 24-INCHES IN DIAMETER.
6. NO SANITARY WASTEWATER SHALL BE CONVEYED TO THE SEPARATOR. A SEPARATE SIDE SEWER SHALL BE REQUIRED TO CARRY SANITARY WASTEWATER TO THE SEWER MAIN AND SHALL BE PLACED AS CLOSE TO THE SERVICE AREA AS PRACTICAL.
7. PLUMBING/PIPING SHALL BE CONSTRUCTED TO ESTABLISH "PARALLEL FLOW" (90-DEGREES TO THE TANK BAFFLE) THROUGH THE GREASE INTERCEPTOR. NO RADIUS, BEND, OR ELBOW SHALL BE ALLOWED IN THE INLET PIPE UPSTREAM OF THE INTERCEPTOR FOR A MINIMUM OF 10-FEET, OR 20-PIPE DIAMETERS, WHICHEVER IS GREATER.
8. ANY PUMP MECHANISM SHALL BE INSTALLED DOWNSTREAM OF THE INTERCEPTOR TO PREVENT FAT, OIL AND GREASE EMULSIFICATION. A "TEE" CONNECTION SHALL BE INSTALLED IN THE DISCHARGE PIPING TO PROVIDE FOR SAMPLE COLLECTION
9. ALL GREASE INTERCEPTORS SHALL BE FILLED WITH CLEAN WATER BEFORE USE.
10. THE DESIGN ENGINEER SHALL PROVIDE ENGINEERING SERVICES STAFF WITH A LETTER OF INSPECTION CERTIFYING THAT THE INSTALLATION WAS PERFORMED IN ACCORDANCE WITH ALL REGULATIONS AND THE APPROVED PLAN.
11. FINAL INSPECTION IS REQUIRED BY ENGINEERING SERVICES STAFF PRIOR TO CONNECTING TO THE SANITARY SEWER.
12. THE PROPERTY OWNER SHALL RETAIN OWNERSHIP OF THE GREASE INTERCEPTOR AND SIDE SEWER LINES AND SHALL BE RESPONSIBLE FOR THEIR OPERATION AND MAINTENANCE. A SERVICE/MAINTENANCE RECORD SHALL BE KEPT ON THE PREMISES AT ALL TIMES AND SHALL BE IMMEDIATELY AVAILABLE TO CITY OF PUYALLUP STAFF UPON REQUEST.
13. THE PROPERTY OWNER SHALL REPORT IMMEDIATELY TO THE CITY'S INDUSTRIAL PRETREATMENT SPECIALIST ANY SPILL, SURCHARGE, BYPASS, OR MECHANICAL FAULT AND/OR FAILURE WHICH INTERRUPTS, OR OTHERWISE REDUCES THE CAPACITY OR REMOVAL EFFICIENCY OF THE GREASE INTERCEPTOR BY CALLING (253) 841-5523.

CITY OF PUYALLUP — OFFICE of THE CITY ENGINEER	GREASE INTERCEPTOR (NOTES)					
DRAWN BY: LINDA LUAN	CHECKED BY: COLLEEN HARKER	APPROVED BY: SHANE BATESON	REVISED BY: LINDA LUAN	DATE: 11/30/16	SCALE: NONE	
FILE NAME: P:\DWG\CAD\DESIGNSTDS\CITYSTDS\04_SS\04.06.01.dwg	DATE APPROVED: 07/01/2009	DATE REVISED: XX/XX/XX	SCALE: 1:1		04.06.02	



TRASH ENCLOSURE PAD DRAIN DETAIL



GREASE INTERCEPTOR SIZING

FIXTURE	QTY.	DFU/EA	TOTAL
MOP SINK	1	3	3
HAND SINK	2	2	4
3-COMP SINK	1	3	3
2" FLOOR SINK	2	4	8
3" FLOOR SINK	2	6	12
FLOOR DRAIN	2	2	4
TOTAL DFUS			40

PER TABLE 1014.2.3, 1250 GAL REQUIRED

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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 psi 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 SERVICES
DATE: 12/13/2024

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 ENGINEERING SERVICES MANAGER.

ROBERT A. TRAVITT — STATE OF WASHINGTON — 4315 — REGISTERED PROFESSIONAL ENGINEER — 11/1/2024

REVISION	DATE
1 Revised per City review.	1/9/24
2 Revised per City review, switch to permeable pavement.	6/18/24
3 Revised per City review	9/3/24
4 Revised to full dimension.	10/31/24
5	
6	
7	
8	
9	
10	

JOB NO: 2505
DATE: JULY 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Rob Travitt
APPROVED BY: Paul Green

AZURE GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3142

SS Details

Taco Time

Taco Time NW
3401 Lind Ave SW
Renton, WA, 98057
Phone 206.255.3833
Fax rtonklin@tacotimenw.com

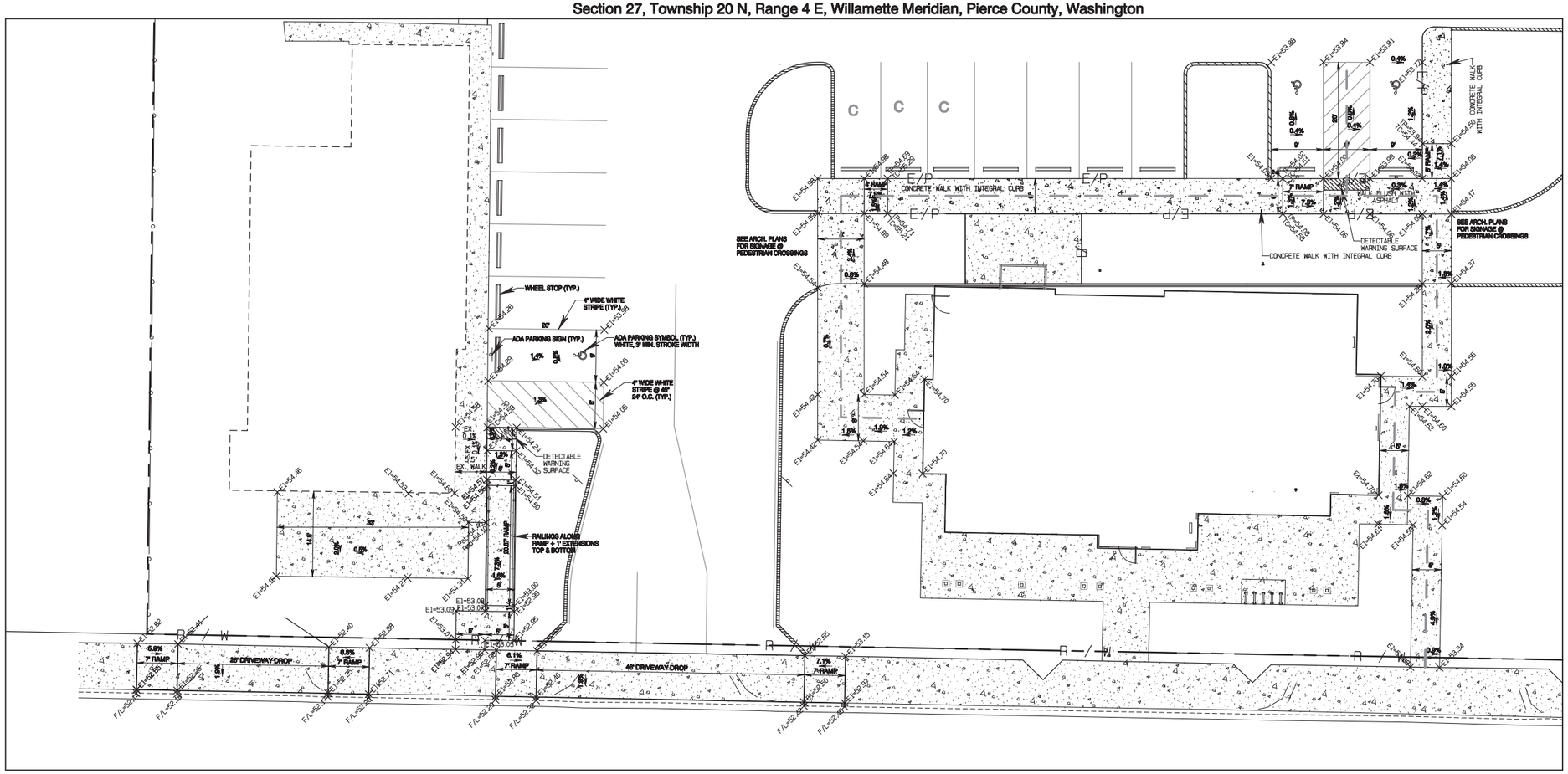
DRAWING
C-15
SHEET 15
OF 16

Project Desc.: Taco Time Path: F:\Jobs\2505 - Taco Time\Tim\Taco 2024 1101.pro Plot Date/Time: 11/1/2024/7:19:37AM

F:\Engineering\Standard Details\Precast Products\Grease Interceptor\Oldcastle Precast\Submittal\1500 Gallon\1500 Grease Interceptor - Submittal.dw

Taco Time

Section 27, Township 20 N, Range 4 E, Willamette Meridian, Pierce County, Washington



TRASH ENCLOSURE PAD DETAIL

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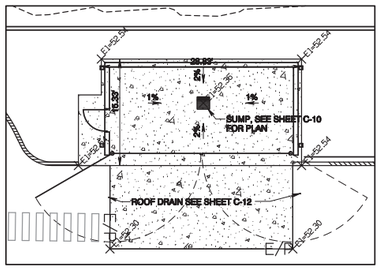

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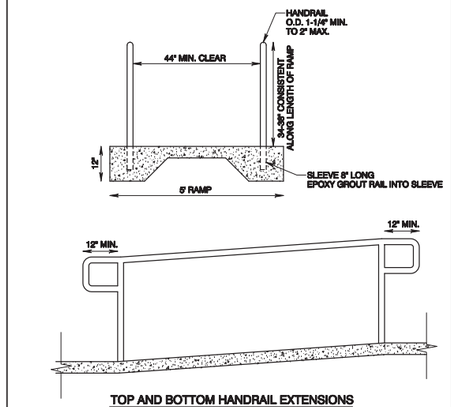
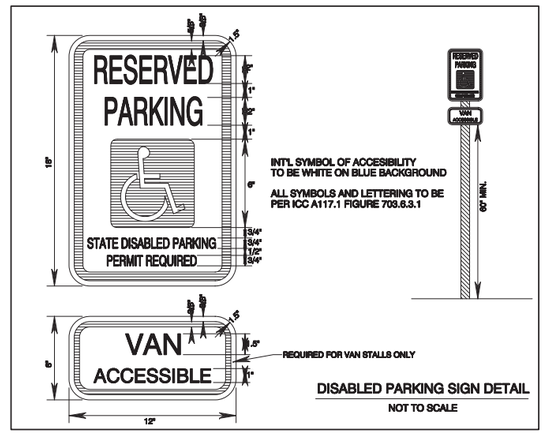


RAILING DETAILS

NOT-TO-SCALE



DISABLED PARKING SIGN DETAIL

NOT TO SCALE

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY: CITY OF PUYALLUP DEVELOPMENT SERVICES

DATE: 12/13/2024

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 ENGINEERING SERVICES MANAGER.

ROBERT A. TRAVITT — 43715 — REGISTERED PROFESSIONAL ENGINEER — STATE OF WASHINGTON — 11/1/2024

DIVISION	DATE
1 Revised per City review.	1/9/24
2 Revised per City review, switch to permeable pavement.	6/18/24
3 Revised per City review.	8/1/24
4 Revised to full dispersion.	10/31/24

JOB NO. 2935
DATE: July 14, 2023
DESIGNED BY: Paul Green
DRAWN BY: Rob Travitt
CHECKED BY: Rob Travitt
APPROVED BY: Paul Green

AZURE GREEN CONSULTANTS
+feasibility +planning +engineering +surveying
409 East Pioneer, Suite A - Puyallup, WA 98372 phone: 253.770.3144 fax: 253.770.3145

Grading/ADA Route Details

Taco Time

Taco Time NW
3401 Lind Ave SW
Renton, WA, 98057
Phone 206.255.3833
Fax rtonkin@tacotimenw.com

DRAWING
C-16
SHEET 16
OF 16

Project Desc.: Taco Time Path: F:\Jobs\2935 - Taco Time\Tmain\taco 2024 101.pro Plot Date/Time: 11/1/2024/7:24:37AM