



# PUYALLUP 2ND STREET APARTMENTS

A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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**AHBL**  
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2215 North 30th Street, Suite 300, Tacoma, WA 98403  
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Project Title:  
**PUYALLUP 2ND STREET APARTMENTS**

## PUYALLUP 2ND STREET APARTMENTS

Client:  
**SPP MANUFACTURING**

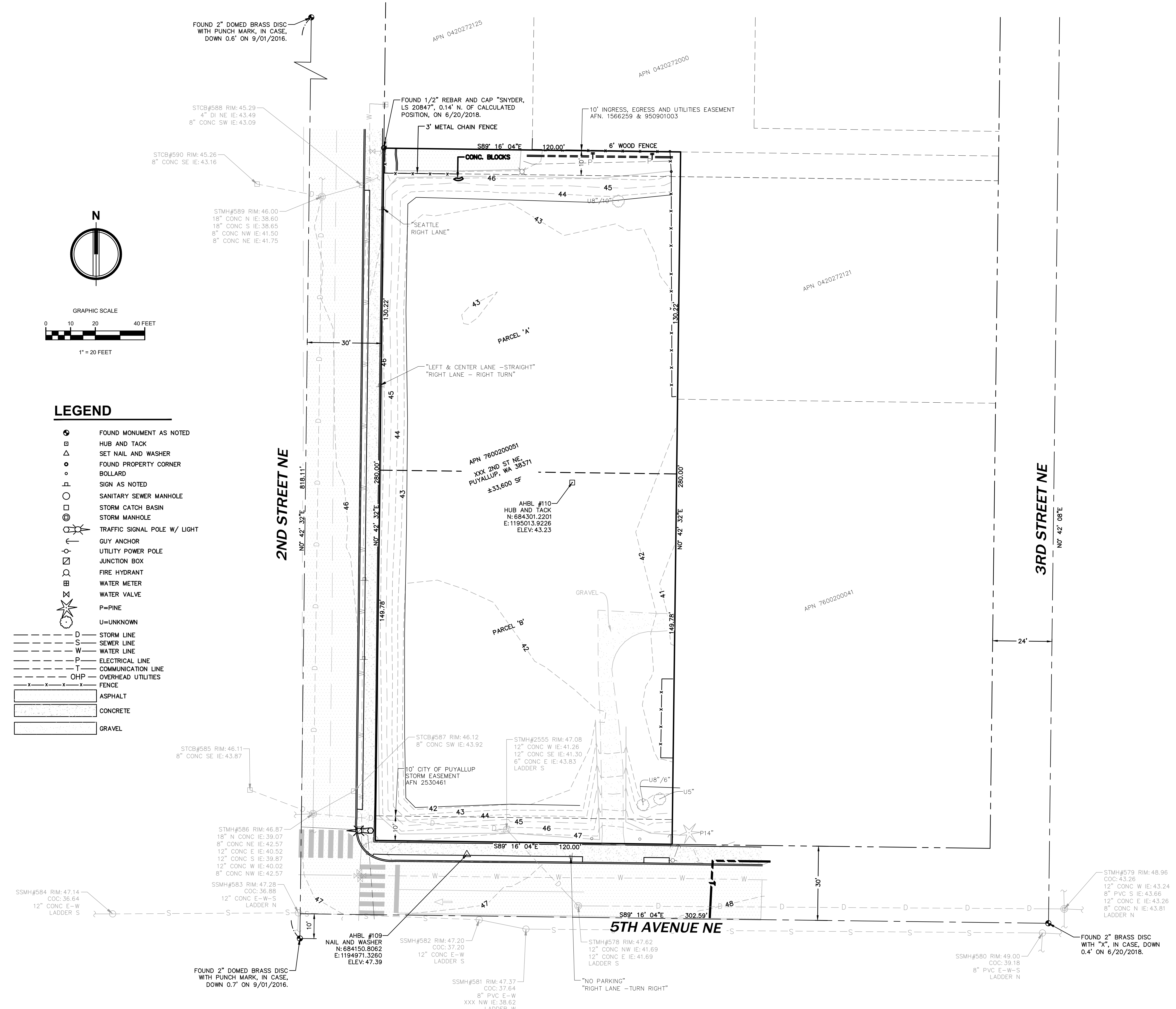
P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No.  
2190606.10

Issue Set & Date:  
**SITE DEVELOPMENT PERMIT SET**  
2/7/2024



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### LEGEND

- FOUND MONUMENT AS NOTED
- HUB AND TACK
- SET NAIL AND WASHER
- FOUND PROPERTY CORNER
- BOLLARD
- SIGN AS NOTED
- SANITARY SEWER MANHOLE
- STORM CATCH BASIN
- STORM MANHOLE
- TRAFFIC SIGNAL POLE W/ LIGHT
- GUY ANCHOR
- UTILITY POWER POLE
- JUNCTION BOX
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- P=PINE
- U=UNKNOWN
- D STORM LINE
- S SEWER LINE
- W WATER LINE
- E ELECTRICAL LINE
- T COMMUNICATION LINE
- OHP OVERHEAD UTILITIES
- FENCE
- ASPHALT
- CONCRETE
- GRAVEL

- \_\_\_\_\_
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  - \_\_\_\_\_
- Revisions:

Sheet Title:  
**EXISTING CONDITIONS MAP**

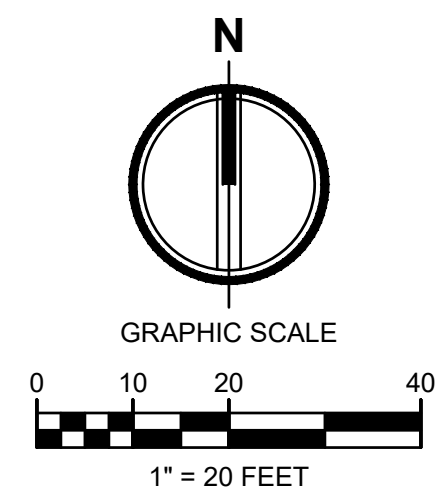
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MW MW BB

Sheet No.  
**C0.2**  
2 of 26 Sheets



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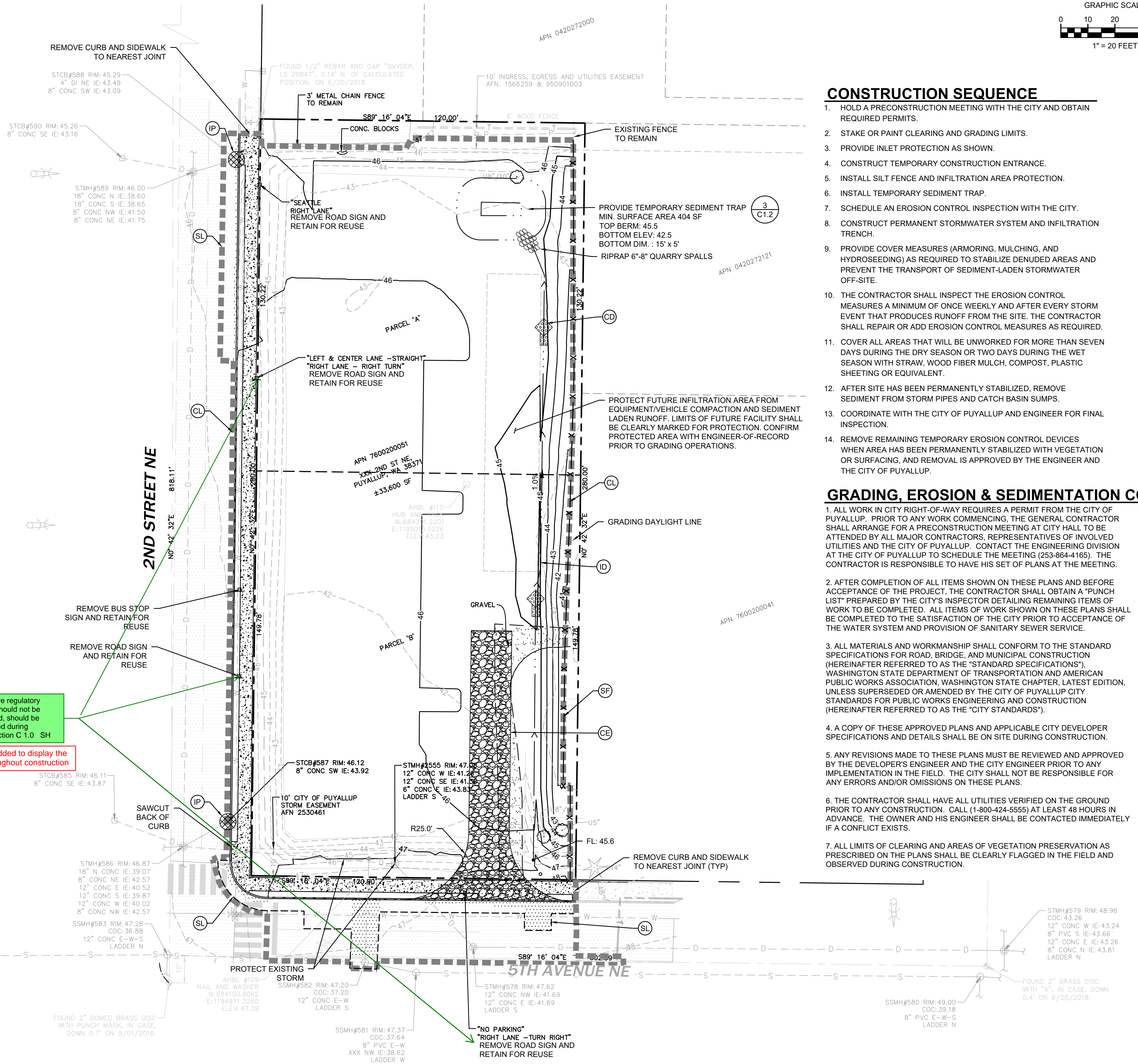
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### CONSTRUCTION SEQUENCE

1. HOLD A PRECONSTRUCTION MEETING WITH THE CITY AND OBTAIN REQUIRED PERMITS.
2. STAKE OR PAINT CLEARING AND GRADING LIMITS.
3. PROVIDE INLET PROTECTION AS SHOWN.
4. CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE.
5. INSTALL SILT FENCE AND INFILTRATION AREA PROTECTION.
6. INSTALL TEMPORARY SEDIMENT TRAP.
7. SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY.
8. CONSTRUCT PERMANENT STORMWATER SYSTEM AND INFILTRATION TRENCH.
9. PROVIDE COVER MEASURES (ARMORING, MULCHING, AND HYDROSEEDING) AS REQUIRED TO STABILIZE DENUDED AREAS AND PREVENT THE TRANSPORT OF SEDIMENT-LADEN STORMWATER OFF-SITE.
10. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL MEASURES A MINIMUM OF ONCE WEEKLY AND AFTER EVERY STORM EVENT THAT PRODUCES RUNOFF FROM THE SITE. THE CONTRACTOR SHALL REPAIR OR ADD EROSION CONTROL MEASURES AS REQUIRED.
11. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
12. AFTER SITE HAS BEEN PERMANENTLY STABILIZED, REMOVE SEDIMENT FROM STORM PIPES AND CATCH BASIN SUMPS.
13. COORDINATE WITH THE CITY OF PUYALLUP AND ENGINEER FOR FINAL INSPECTION.
14. REMOVE REMAINING TEMPORARY EROSION CONTROL DEVICES WHEN AREA HAS BEEN PERMANENTLY STABILIZED WITH VEGETATION OR SURFACING, AND REMOVAL IS APPROVED BY THE ENGINEER AND THE CITY OF PUYALLUP.

### LEGEND

(CE)	CONSTRUCTION ENTRANCE		1 C1.1
	ASPHALT TO BE REMOVED		
	CONCRETE TO BE REMOVED		
(SF)	SILTATION FENCE		3 C1.1
(CL)	CLEARING/PROJECT LIMITS		
(SL)	SAWCUT LINE		
(ID)	INTERCEPTOR DITCH		2 C1.2
(IP)	INLET SEDIMENT PROTECTION		1 C1.2
(CD)	ROCK CHECK DAM		4 C1.2
	TREE TO BE REMOVED		
	TREE TO REMAIN		
	EXISTING MAJOR CONTOUR		
	EXISTING MINOR CONTOUR		
	PROPOSED MAJOR CONTOUR		
	PROPOSED MINOR CONTOUR		
	EXISTING STORM MANHOLE		
	EXISTING CATCH BASIN		

### 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 CITY HALL TO BE ATTENDED BY ALL MAJOR CONTRACTORS, REPRESENTATIVES OF INVOLVED UTILITIES AND THE CITY OF PUYALLUP. CONTACT THE ENGINEERING DIVISION AT THE CITY OF PUYALLUP TO SCHEDULE THE MEETING (253-864-4165). THE CONTRACTOR IS RESPONSIBLE TO HAVE HIS 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 (1-800-424-5555) AT LEAST 48 HOURS IN ADVANCE. THE OWNER AND HIS ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
8. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
9. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
10. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
11. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
12. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.
13. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.
14. AT ANY TIME DURING CONSTRUCTION IT IS DETERMINED BY THE CITY THAT MUD AND DEBRIS ARE BEING TRACKED ONTO PUBLIC STREETS WITH INSUFFICIENT CLEANUP, ALL WORK SHALL CEASE ON THE PROJECT UNTIL THIS CONDITION IS CORRECTED. THE CONTRACTOR AND/OR THE OWNER SHALL IMMEDIATELY TAKE ALL STEPS NECESSARY TO PREVENT FUTURE TRACKING OF MUD AND DEBRIS INTO THE PUBLIC ROW, WHICH MAY INCLUDE THE INSTALLATION OF A WHEEL WASH FACILITY ON-SITE.
15. CONTRACTOR SHALL DESIGNATE A WASHINGTON DEPARTMENT OF ECOLOGY CERTIFIED EROSION AND SEDIMENT CONTROL LEAD PERSON, AND SHALL COMPLY WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THEIR PROJECT.
16. SEDIMENT-LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE PROJECT'S NPDES GENERAL STORMWATER PERMIT.

these are regulatory signs, should not be removed, should be displayed during construction C 1.0 SH

Callouts added to display the signs throughout construction



Know what's below.  
Call before you dig.

# C1.0

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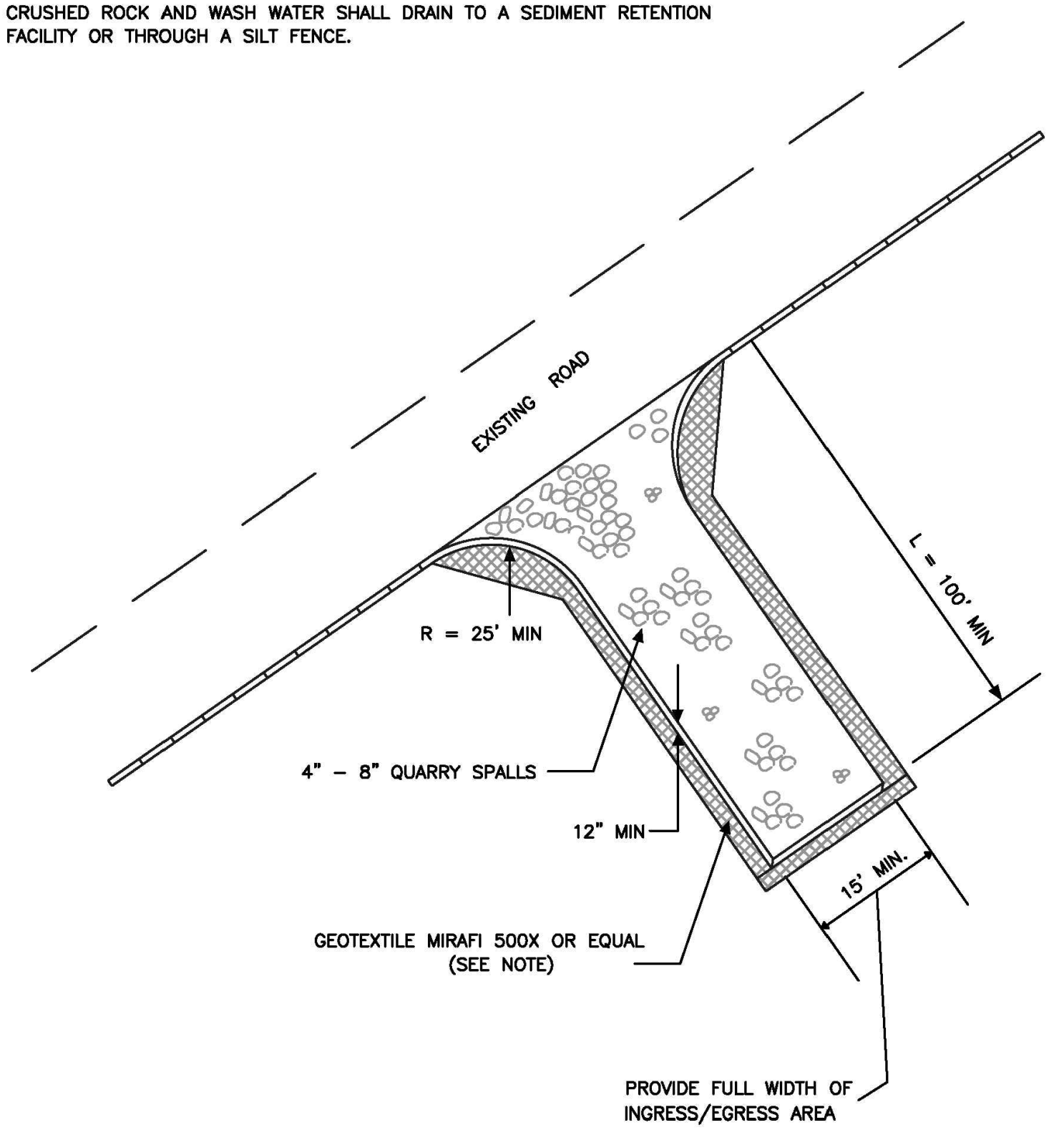
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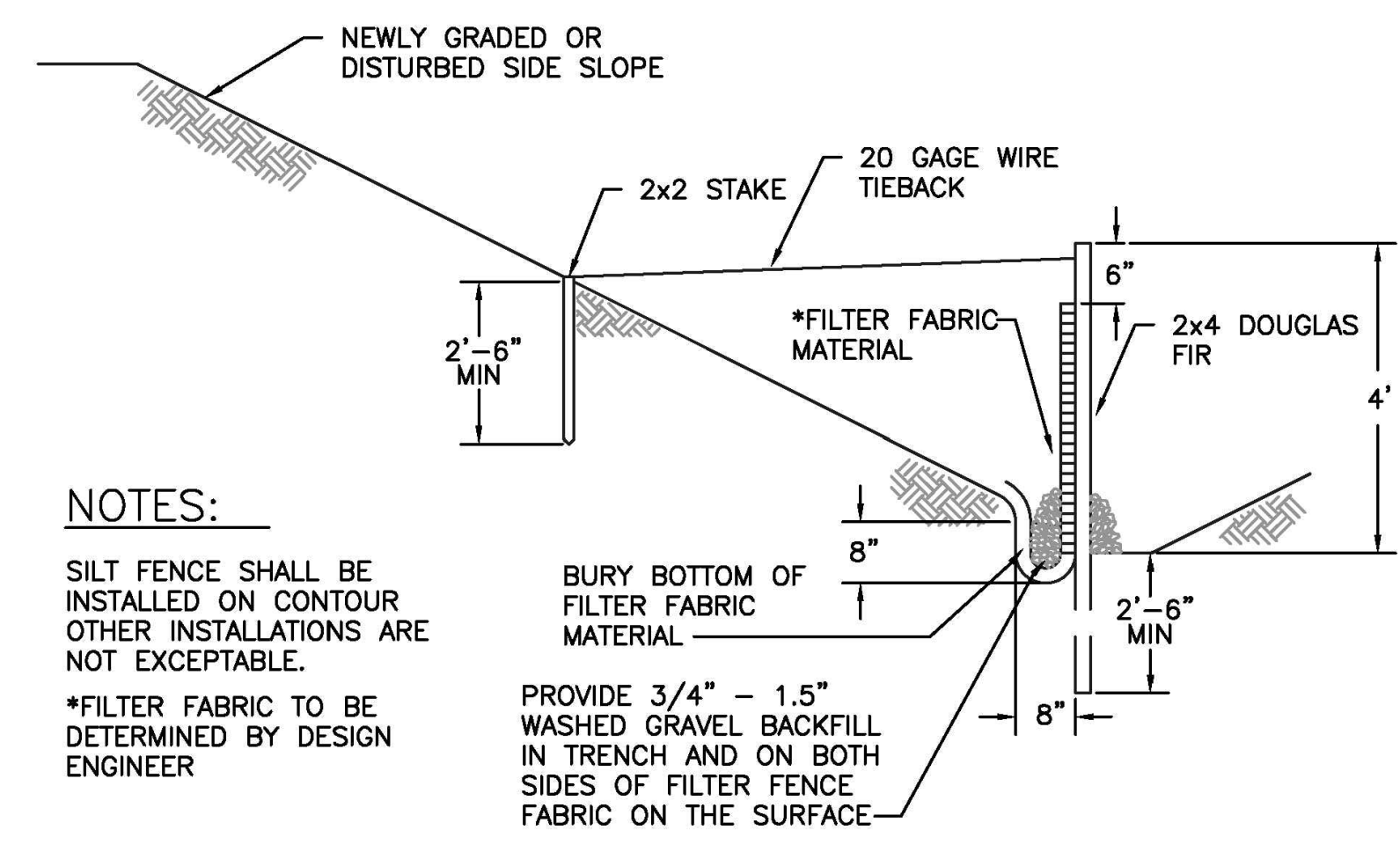
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**NOTE:**

- GEOTEXTILE MIRAFI 500 X OR APPROVED EQUAL SHALL BE PLACED UNDER THE ENTIRETY OF THE TEMPORARY ENTRANCE.
- ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
- IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE'S WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.



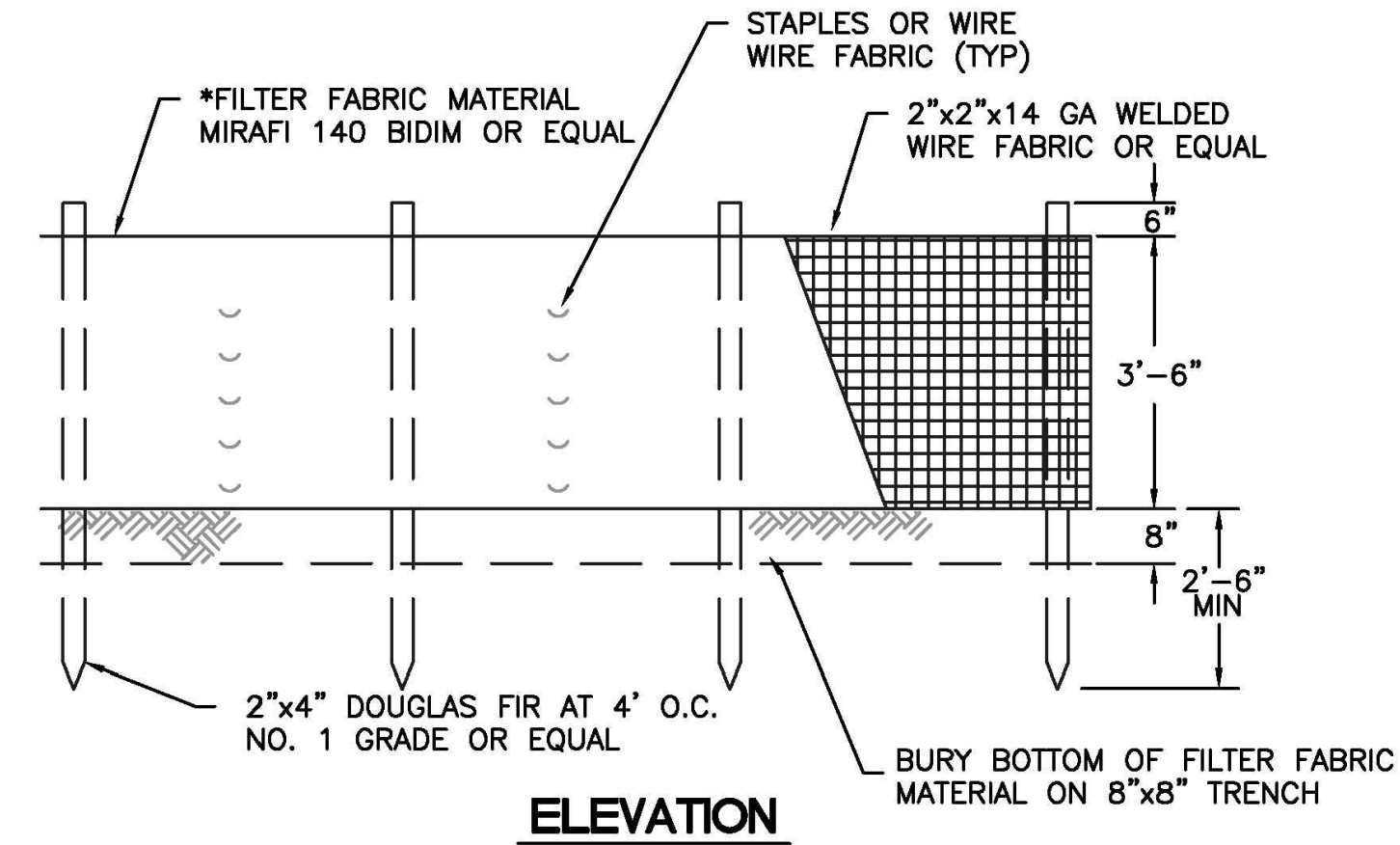
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**NOTES:**

- SILT FENCE SHALL BE INSTALLED ON CONTOUR OTHER INSTALLATIONS ARE NOT EXCEPTABLE.
- \*FILTER FABRIC TO BE DETERMINED BY DESIGN ENGINEER

**TYPICAL CROSS SECTION**



**ELEVATION**

<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>TEMPORARY CONSTRUCTION ENTRANCE</b>				<p>CITY STANDARD 05.01.01</p>
	DRAWN BY JIM SWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX	

<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES</b>				<p>CITY STANDARD 05.02.01</p>
	DRAWN BY JIM SWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN	

<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>SILTATION FENCE</b>				<p>CITY STANDARD 02.03.02</p>
	DRAWN BY LINDA LANSING	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX	

**1 TEMPORARY CONSTRUCTION ENTRANCE**  
NOT TO SCALE

**2 GRADING AND T.E.S.C. NOTES**  
NOT TO SCALE

**3 SILTATION FENCE**  
NOT TO SCALE



Revisions:

Sheet Title:  
**TESC NOTES AND DETAILS**

Designed by: MW    Drawn by: MW    Checked by: BB

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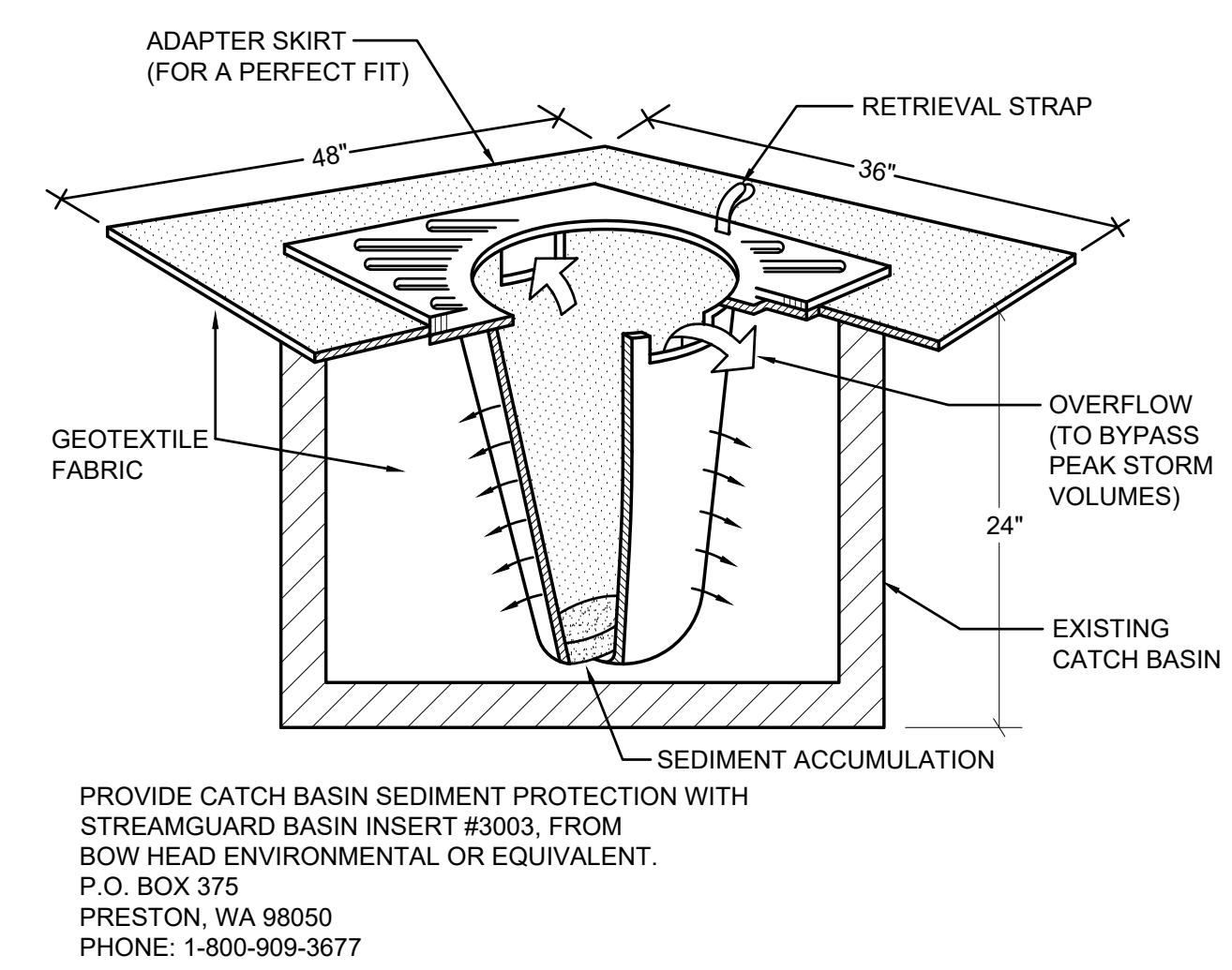
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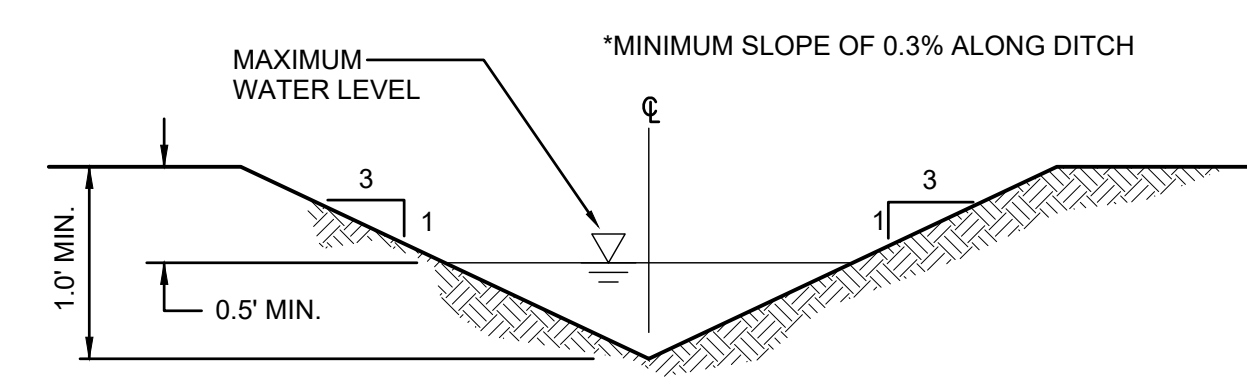
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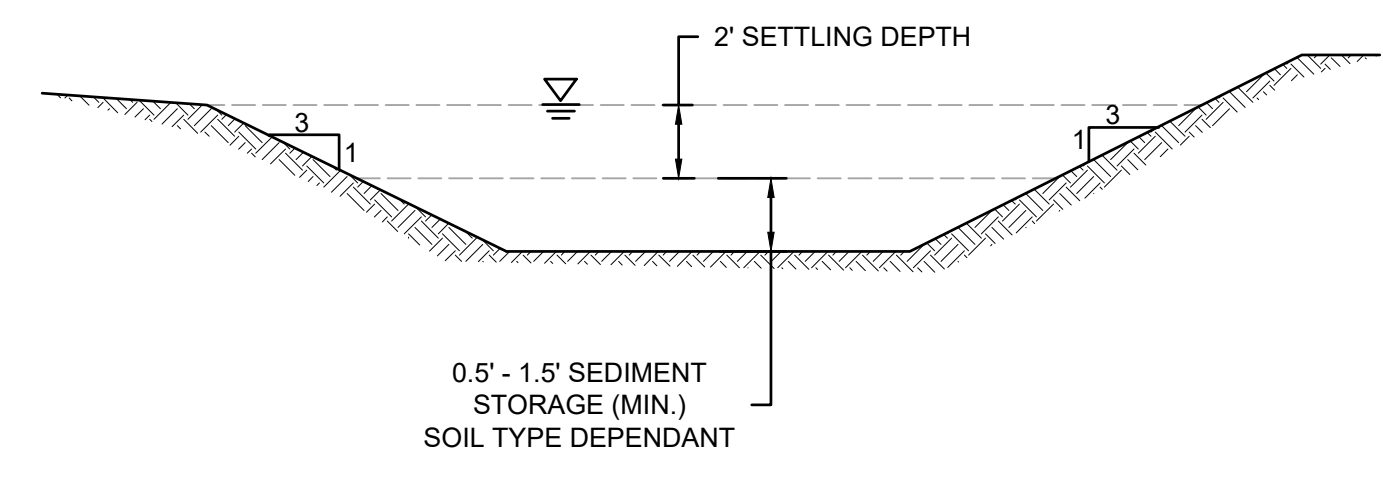
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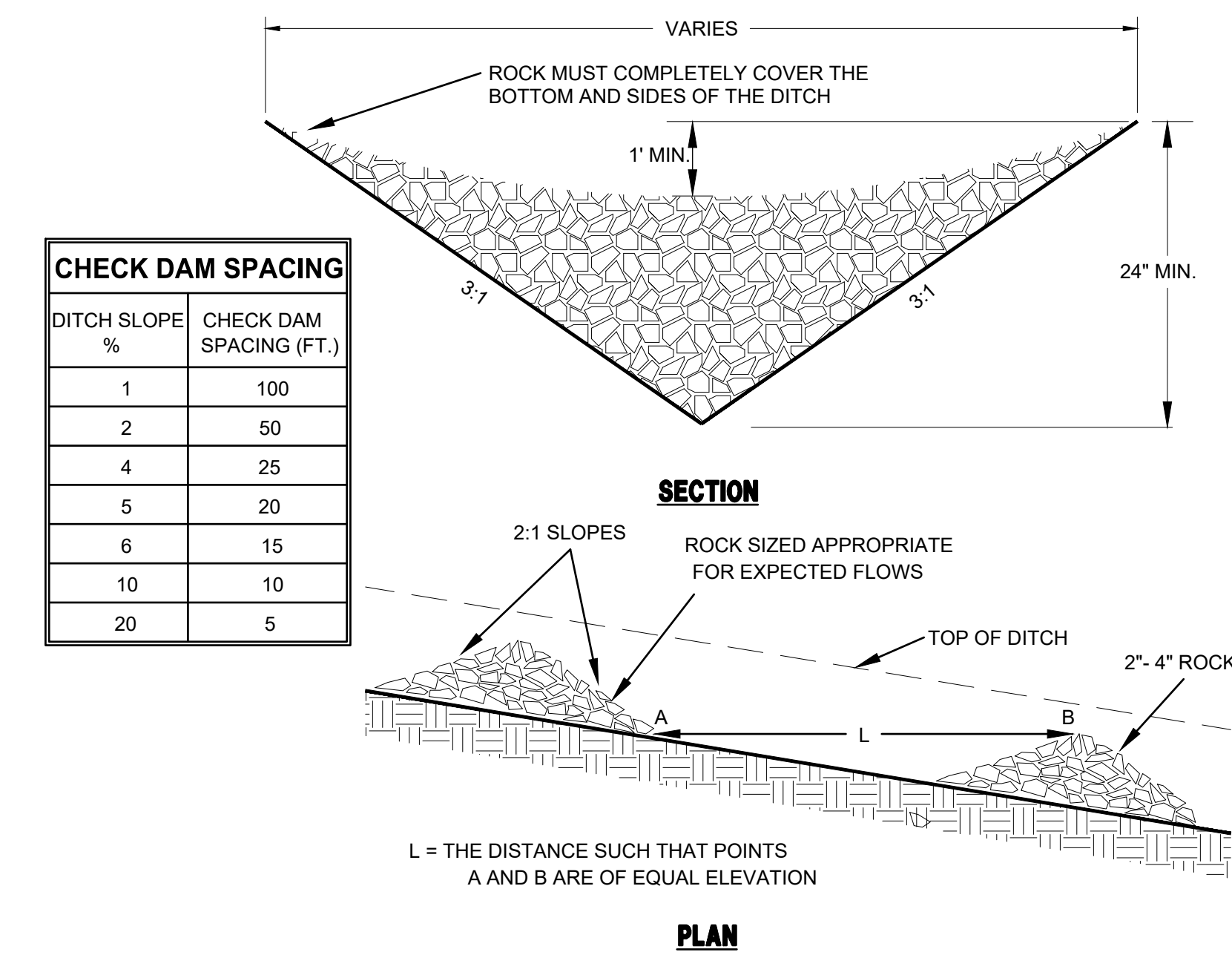
**1 INLET PROTECTION**  
NOT TO SCALE



**2 INTERCEPTOR DITCH**  
NOT TO SCALE



**3 SEDIMENT TRAP**  
NOT TO SCALE



**CHECK DAM NOTES:**

- THE MAXIMUM SPACING BETWEEN THE DAMS SHALL BE SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
- ROCK CHECK DAMS SHALL BE CONSTRUCTED OF 2- TO 4- INCH DIAMETER QUARRY SPALLS. THE QUARRY SPALLS MUST BE PLACED BY HAND OR MECHANICAL PLACEMENT (NO DUMPING OF SPALLS TO FORM DAM) TO ACHIEVE COMPLETE COVERAGE OF THE DITCH OR SWALE AND TO INSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
- LOG CHECK DAMS SHALL BE CONSTRUCTED OF 4- TO 6- INCH DIAMETER LOGS. THE LOGS SHALL BE EMBEDDED INTO THE SOIL AT LEAST 18 INCHES.
- IN THE CASE OF GRASS-LINED DITCHES AND SWALES, CHECK DAMS SHALL BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE. THE AREA BENEATH THE CHECK DAMS SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER DAM REMOVAL.
- CHECK DAMS SHALL BE CHECKED FOR SEDIMENT ACCUMULATION AFTER EACH SIGNIFICANT RAINFALL. SEDIMENT SHALL BE REMOVED WHEN IT REACHES ONE HALF OF THE ORIGINAL DAM HEIGHT OR BEFORE.

**4 CHECK DAM**  
NOT TO SCALE



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Sheet Title:

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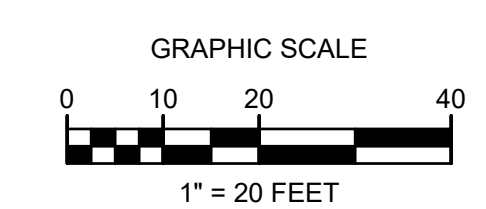
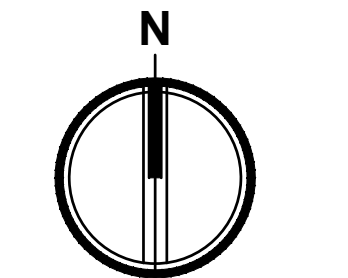
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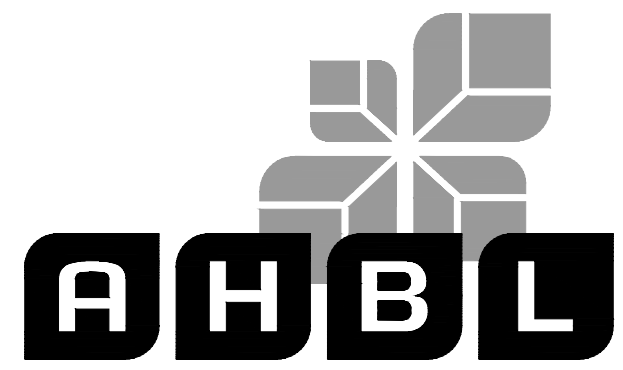


**APPROVED**

BY: CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE: \_\_\_\_\_

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2215 North 30th Street, Suite 300, Tacoma, WA 98403  
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title:

## PUYALLUP 2ND STREET APARTMENTS

Client:  
SPP MANUFACTURING

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No.  
2190606.10

Issue Set & Date:

## SITE DEVELOPMENT PERMIT SET

2/7/2024



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**LEGEND**

	ASPHALT PAVEMENT	6 C2.1
	CONCRETE SIDEWALK	5 C2.1
	PERMEABLE CONCRETE	1 C3.3
VC	VERTICAL CURB	1 C2.1
NC	NO CURB	
C	COMPACT PARKING STALL	
(X)	CHANGE IN CURB TYPE	
	"NO PARKING FIRE LANE" SIGN	
	CONCRETE WHEELSTOP	4 C2.1

**FIRE NOTES**

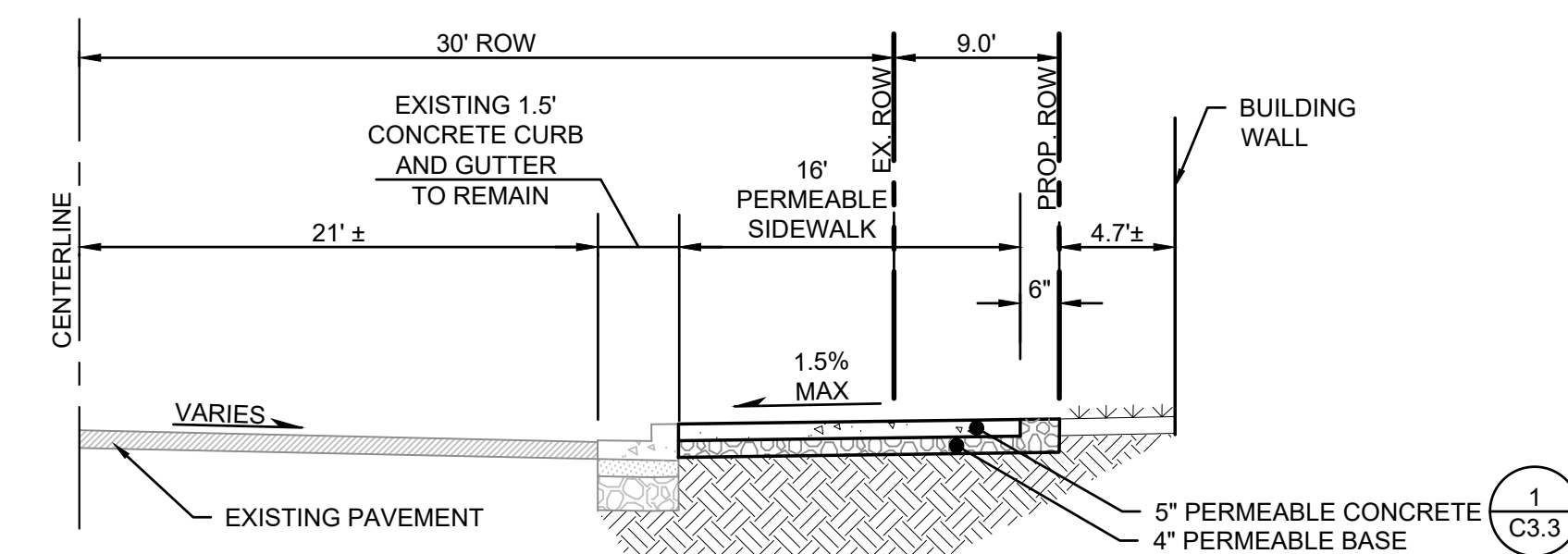
- "NO PARKING FIRE LANE" SIGNS TO MEET INTERNATIONAL FIRE CODE D103.6 STANDARDS. 12"x18" WITH RED LETTERS ON WHITE REFLECTIVE BACKGROUND.
- PROVIDE YELLOW PAINTED CURBS ALONG FIRE ACCESS ROUTE.

**STREETLIGHT NOTES**

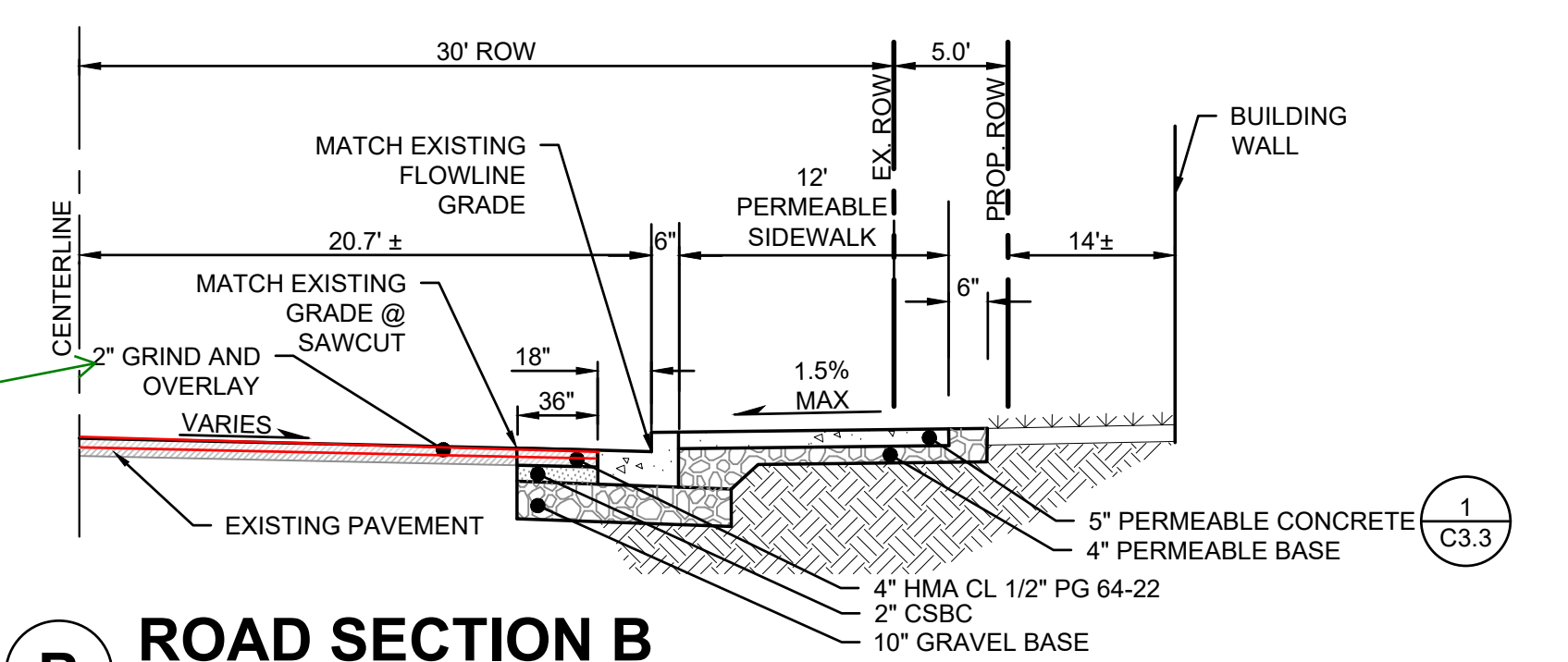
- MAINTAIN 36-INCHES CLEAR BETWEEN EXISTING WATER MAIN AND STREET LIGHT FOUNDATION (TYP.)

**SITE DATA**

NUMBER OF DWELLING UNITS	24
PROPOSED PARKING	
COMPACT	20
STANDARD (INCLUDING 2 ACCESSIBLE)	12
TOTAL	32



**A ROAD SECTION A**  
NOT TO SCALE



**B ROAD SECTION B**  
NOT TO SCALE

Benched moved, refer to updated landscape plans C.2.0 SH

with this very wide sidewalk why is there one bench right next to the curb, should be moved, this impedes pedestrian flow, shows more in the middle in the landscape plans C.2.0 SH

WSDOT Field guide states when pedestrian path crosses a curb ramp from the side a flared side is needed C.2.0 SH. WSDOT examples show a non walking surface or buffer

Curb design changed, traffic signal no longer in curb ramp

expand the grind/overlay to encompass this area C.2.0 SH  
Grind and overlay expanded to include crosswalk

Hatching changed to show dense concrete along driveway

driveway should be dense concrete, this appears to show the ramps dense but not the driving surface C.2.0 SH

should be clear the grind/overlay goes to the curb & gutter C.2.0 SH  
Outline darkened to distinguish grind and overlay section

remove C curb C.2.0 SH  
C curb to remain



Know what's below.  
Call before you dig.

Revisions:


Sheet Title:

## HORIZONTAL CONTROL AND SURFACING PLAN

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No.

# C2.0

6 of 26 Sheets



# PUYALLUP 2ND STREET APARTMENTS

A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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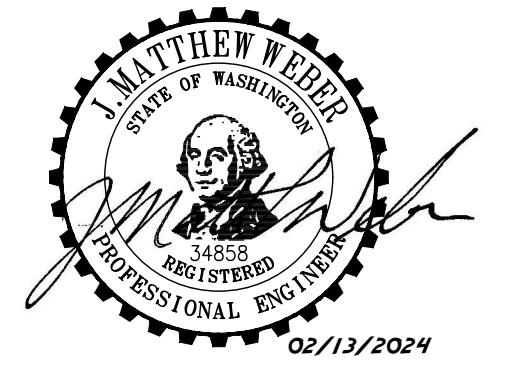
Project Title:  
**PUYALLUP 2ND STREET APARTMENTS**

Client:  
SPP MANUFACTURING

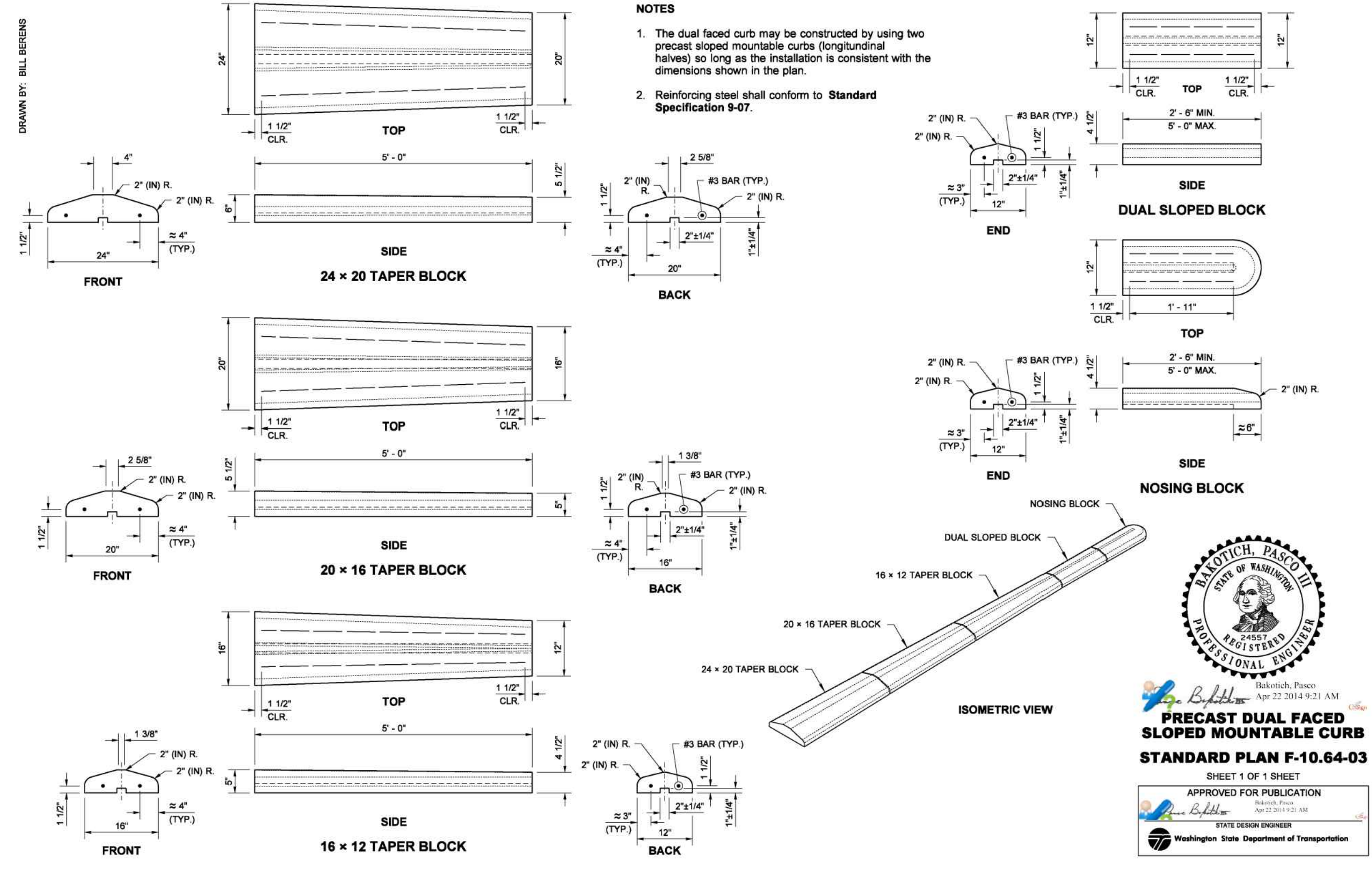
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DON HUBER

Project No.  
2190606.10

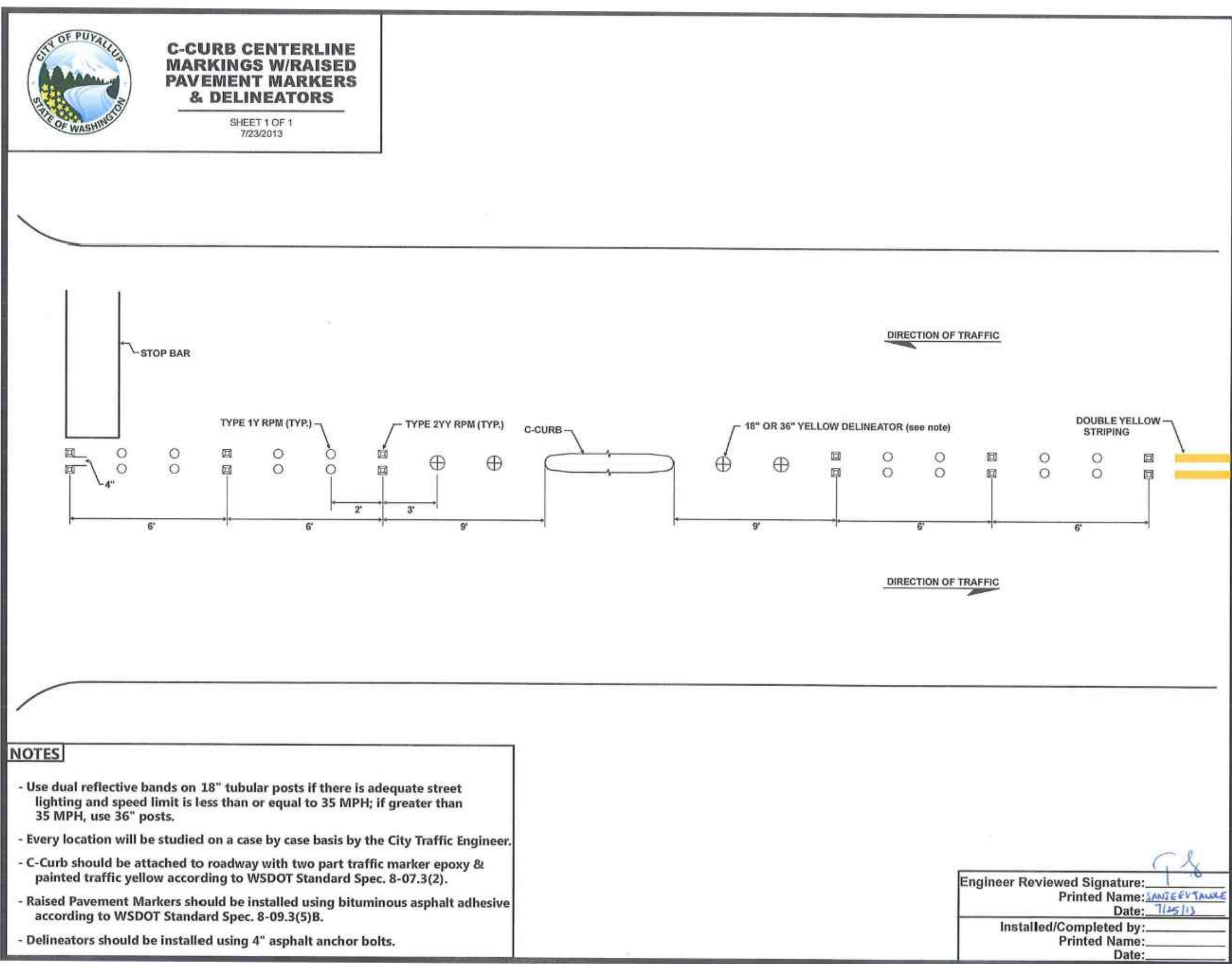
Issue Set & Date:  
**SITE DEVELOPMENT PERMIT SET**  
2/7/2024



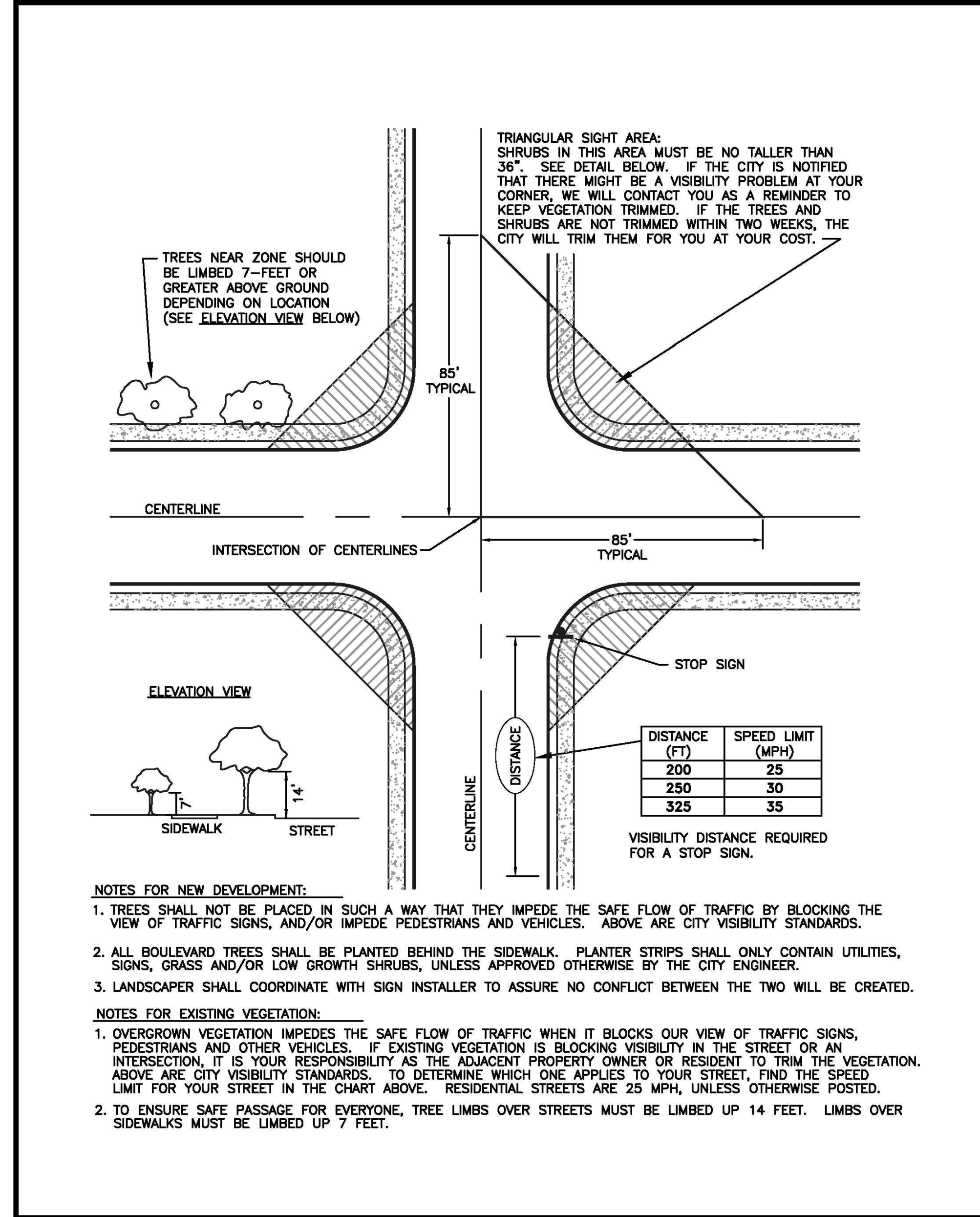
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**1 WSDOT MOUNTABLE CURB**  
NOT TO SCALE



**2 C-CURB DETAIL**  
NOT TO SCALE



**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

**APPROACH SIGHT DISTANCE**

DRAWN BY JIM ERWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX	CITY STANDARD
FILE NAME F:\DWG\COMMON\STDS\CITY\200901_STR\01.01\01.01.11	DATE APPROVED 07/01/2009	DATE REVISED XX/XX/XX	SCALE 1:40	01.01.11

**3 APPROACH SIGHT DISTANCE**  
NOT TO SCALE



Revisions:

Sheet Title:  
**SURFACING NOTES AND DETAILS**

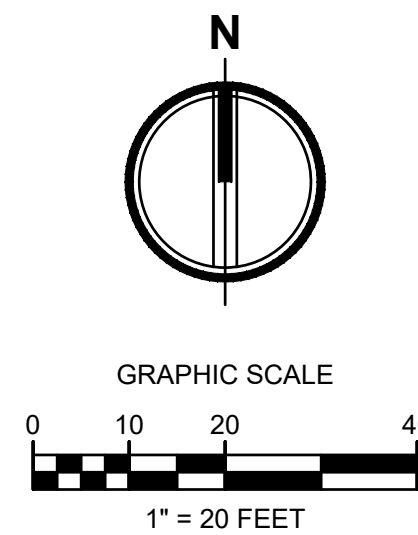
Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No.  
**C2.2**  
8 of 26 Sheets



# PUYALLUP 2ND STREET APARTMENTS

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CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

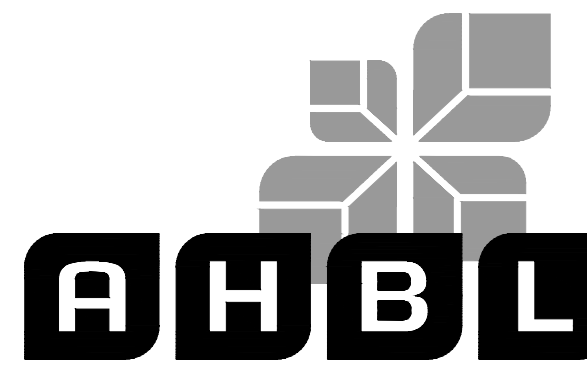


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**Project Title:**  
**PUYALLUP 2ND STREET APARTMENTS**

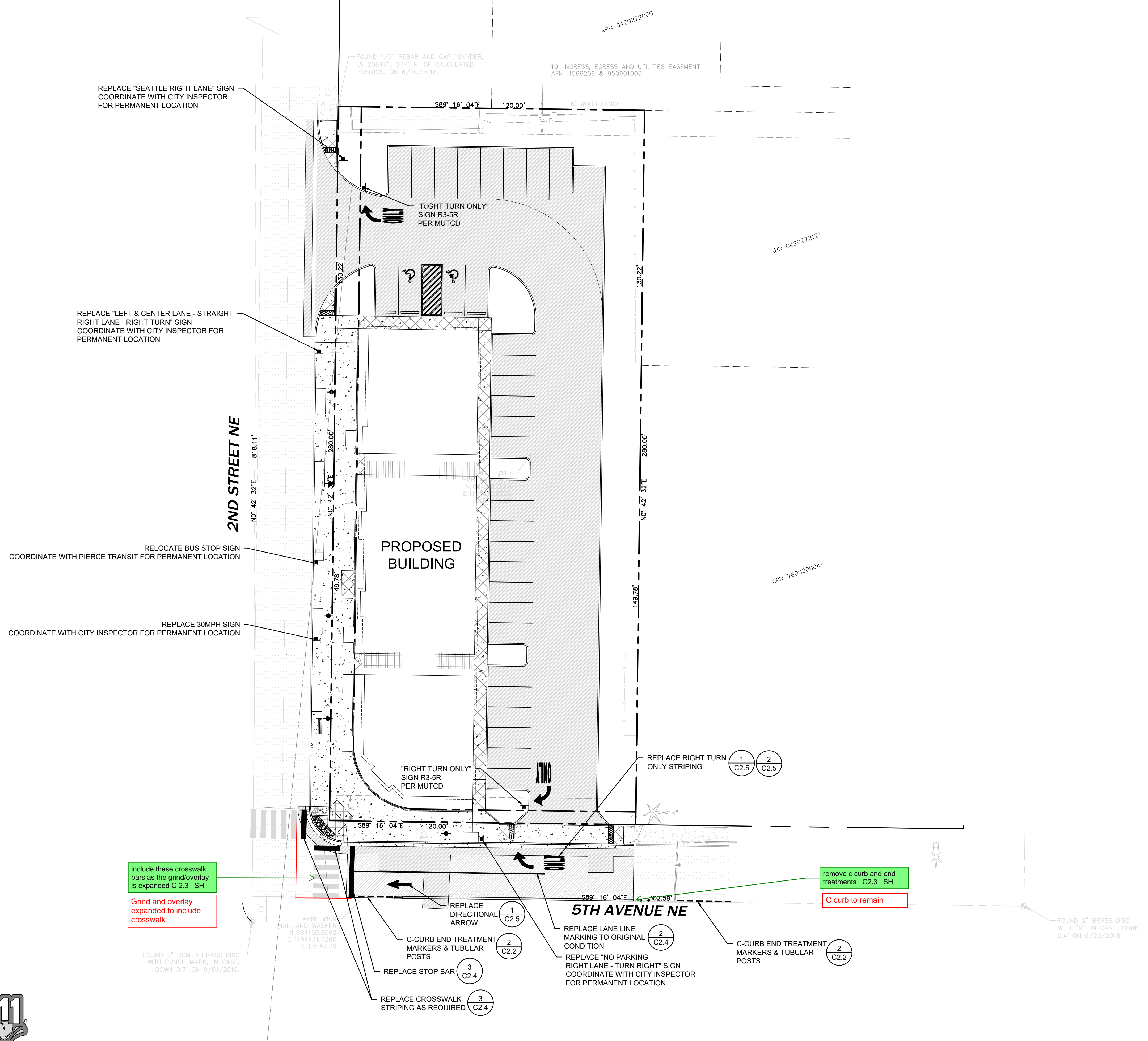
**Client:**  
SPP MANUFACTURING

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

**Project No.:**  
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2/7/2024

- FIRE NOTES**
- "NO PARKING FIRE LANE" SIGNS TO MEET INTERNATIONAL FIRE CODE D103.6 STANDARDS. 12"x18" WITH RED LETTERS ON WHITE REFLECTIVE BACKGROUND.
  - PROVIDE YELLOW PAINTED CURBS ALONG FIRE ACCESS ROUTE.



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Revisions:


**Sheet Title:**  
**CHANNELIZATION PLAN**

**Designed by:** MW    **Drawn by:** MW    **Checked by:** BB

**Sheet No.:**  
**C2.3**  
9 of 26 Sheets



# PUYALLUP 2ND STREET APARTMENTS

A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

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BY \_\_\_\_\_  
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DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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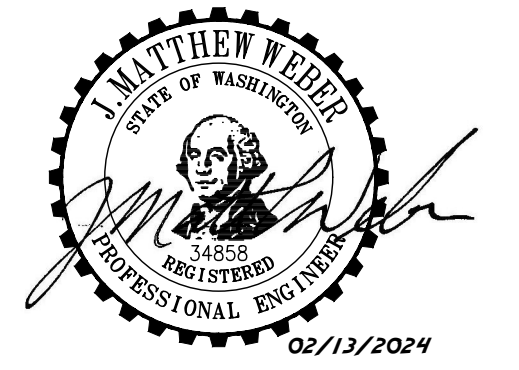
## PUYALLUP 2ND STREET APARTMENTS

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SPP MANUFACTURING

P.O. BOX 64160  
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DON HUBER

Project No.  
2190606.10

Issue Set & Date:  
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2/7/2024



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Revisions:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Sheet Title:

**CHANNELIZATION NOTES AND DETAILS**

Designed by: \_\_\_\_\_ Drawn by: \_\_\_\_\_ Checked by: \_\_\_\_\_  
MW MW BB

Sheet No.  
**C2.4**  
10 of 26 Sheets

### CROSSWALK DETAIL

SPACING SHALL NOT EXCEED 60"

(see note 2)

SCALE: 1:4

SCALE: 1:20

**NOTES:**

- FOR ALL ROADWAYS, THE LONGITUDINAL LINES SHALL BE CENTERED ON THE LANE LINES AND IN THE CENTER OF THE TRAVELED PORTION OF THE LANE TO MINIMIZE TIRE WEAR. THE SPACING BETWEEN THE LONGITUDINAL LINES SHALL NOT EXCEED 60".
- THE LENGTH OF A CROSSWALK SHALL BE 8' ACROSS RESIDENTIAL STREETS, 10' ACROSS COLLECTORS AND MINOR ARTERIALS AND 12' ACROSS PRINCIPAL ARTERIALS. HOWEVER, THE LENGTH OF A CROSSWALK SHALL BE 8' ACROSS SIDE STREETS ALONG COLLECTORS AND MINOR ARTERIALS AND 12' ACROSS SIDE STREETS ALONG PRINCIPAL ARTERIALS.
- STOP BAR WHEN USED WITH A CROSSWALK SHALL BE PLACED FOUR FEET IN ADVANCE OF AND PARALLEL TO THE CROSSWALK ALL STOP BARS SHALL BE 24" WIDE.
- PAVEMENT MARKINGS, INCLUDING CROSSWALKS, SHALL BE TYPE A LIQUID HOT APPLIED THERMOPLASTIC, PER STANDARD SPECIFICATIONS, SECTION 9-34 PAVEMENT MARKING MATERIAL, 9-34.1 GENERAL.

**1** TURN POCKET MARKING  
NOT TO SCALE

### PAVEMENT MARKING DETAILS

**NOTES:**

- CENTERLINE STRIPE FOR CHANNELIZATION SHALL BE DETAIL B OR DETAIL C AS DIRECTED BY CITY. CENTERLINE STRIPE FOR ALL COLLECTORS SHALL BE DETAIL D WITH TYPE 2YY RPM SPACED AT 80' INTERVALS ON TANGENTS AND HORZ. CURVES WITH A RADIUS OF 5000' OR MORE AND 40' INTERVALS ON HORZ. CURVES LESS THAN 5000'. CENTERLINE STRIPE FOR ARTERIALS SHALL BE DETAIL E WITH RPM SPACING AS PREVIOUSLY DEFINED.
- ROADS, UNLESS OTHERWISE DETERMINED BY THE CITY, (ARTERIALS & COLLECTORS) LONGITUDINAL LINES SHALL BE PAINTED, APPLIED 14 MILS WHEN WET.
- NO PASSING ZONES IN ONE DIRECTION OR BOTH SHALL BE CLEARLY MARKED WITH CENTERLINE STRIPE, DETAIL B OR DETAIL C OR COMBINATION OF DETAIL D AND DETAIL E.
- ON WIDE INTERSECTIONS SPACE TYPE 1 OR 2 RPM 4 FEET ON CENTER.

**RAISED PAVEMENT MARKERS**

TYPE 2 RPM (REFLECTIVE)  
RAISED FACE COLORS

TYPE 2WR	WHITE AND RED
TYPE 2YR	YELLOW AND RED
TYPE 2W	YELLOW AND YELLOW
TYPE 2Y	WHITE - ONE SIDE ONLY
TYPE 2Y	YELLOW - ONE SIDE ONLY

TYPE 1 RPM COLORS

TYPE 1W	WHITE
TYPE 1Y	YELLOW

\*TYPE 3 RPM COLORS

TYPE 3W	8" RUMBLE BAR - WHITE
TYPE 3Y	8" RUMBLE BAR - YELLOW

\* CITY MAY REQUIRE REFLECTIVE.

TYPE 2YY @ 20' O.C.  
DIRECTION OF TRAVEL IN TURNING LANE  
DOUBLE YELLOW CENTERLINE STRIPE  
DETAIL "C"

TYPE 2W @ 10' O.C.  
FIRST 100'  
20' O.C. REMAINDER  
DETAIL "A"

WHITE GORE STRIPE

TYPE 2YY @ 20' O.C.  
INSIDE EDGE OF LANE  
DIRECTION OF TRAVEL IN TURNING LANE  
DOUBLE YELLOW CENTERLINE STRIPE  
DETAIL "B"

FOR RPM SPACING SEE NOTE #1 ABOVE.

4" YELLOW STRIPE  
CENTERLINE STRIPE FOR ARTERIALS  
DETAIL "E"

SCALE: 1:4

SCALE: 1:20

SKIP STRIPE PATTERN FOR CENTERLINES AND LANE LINES.  
DETAIL "D"

**2** PAVEMENT MARKING DETAILS  
NOT TO SCALE

### LEFT/RIGHT TURN POCKET ARROW AND ONLY LAYOUT

**CASE 1**  
WHEN LEFT TURN POCKET IS 100' OR LESS

**CASE 2**  
WHEN LEFT TURN POCKET IS 101' - 200'

**CASE 3**  
WHEN LEFT TURN POCKET IS 201' - 275'

24" WIDE STOP BAR TYP. SEE NOTE 3

12" MIN.

100'

15'

24'

100'\*

275'\*

100'\*

DOUBLE YELLOW W/TYPE 2YY 20' O.C. SEE CITY STANDARD DETAIL NO. 01.03.10

8" WHITE GORE STRIPE W/TYPE 2W RPM'S @ 10' O.C. SEE CITY STANDARD DETAIL NO. 01.03.10

8" WHITE GORE STRIPE W/TYPE 2W RPM'S @ 20' O.C. SEE CITY STANDARD DETAIL NO. 01.03.10

\* THE PLACEMENT AND NUMBER OF ARROW/ONLY MARKINGS FOR LANES EXCEEDING 275' WILL BE APPROVED ON AN INDIVIDUAL BASIS BY THE CITY OF PUYALLUP

\*\* DISTANCES SHALL BE EQUAL WHEN LESS THAN 100'

**NOTES:**

- PAINT FOR LANES STRIPES SHALL COMPLY WITH SPECIFICATIONS FOR NO HEAT, INSTANT DRY PAVEMENT MARKING. GLASS BEADS SHALL COMPLY WITH SPECIFICATIONS FOR TYPE II WATERPROOF OVERLAY GLASS SPHERES. INSTALLATION SHALL MEET CONSTRUCTION REQUIREMENTS 8-22.3 OF 2002 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION. SEE PAVEMENT MARKING DETAILS FOR EXCEPTIONS WHEN PAINT CAN NOT BE USED.
- PAVEMENT MARKINGS SHALL BE TYPE A - LIQUID HOT APPLIED THERMOPLASTIC, PER STANDARD SPECIFICATIONS, SECTION 9-34 PAVEMENT MARKING MATERIAL, 9-34.1 GENERAL.
- STOP BAR IS TO BE INSTALLED ONLY WHERE A TRAFFIC STUDY DETERMINES THEY ARE WARRANTED.

**3** CROSSWALK DETAIL  
NOT TO SCALE

**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

DRAWN BY JIM ERWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN	CITY STANDARD
FILE NAME F:\DWG\COMMON\STD\DCITY\2009\01_STR01.03\01.03.06	DATE APPROVED 07/01/2009	DATE REVISION 09/11/2013	SCALE 1:4	01.03.06

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FILE NAME F:\DWG\COMMON\STD\DCITY\2009\01_STR01.03\01.03.10	DATE APPROVED 07/01/2009	DATE REVISION XXXXXX	SCALE VARIES	01.03.10

DRAWN BY JIM ERWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN	CITY STANDARD
FILE NAME F:\DWG\COMMON\STD\DCITY\2009\01_STR01.03\01.03.11	DATE APPROVED 07/01/2009	DATE REVISION 09/11/2013	SCALE 1:4	01.03.11



# PUYALLUP 2ND STREET APARTMENTS

A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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Project Title:

## PUYALLUP 2ND STREET APARTMENTS

Client:  
SPP MANUFACTURING

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No.  
2190606.10

Issue Set & Date:  
**SITE DEVELOPMENT PERMIT SET**  
2/7/2024



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PER WSDOT STANDARD PLAN M-24.20.01

**TYPE 4**

**TYPE 1**  
ALSO USED AS MERGING ARROW

**TYPE 3L (LEFT) SHOWN**  
**TYPE 3R (RIGHT)**

NOTE:  
PAVEMENT MARKINGS, INCLUDING CROSSWALKS, SHALL BE TYPE A LIQUID HOT APPLIED THERMOPLASTIC, PER STANDARD SPECIFICATIONS, SECTION 9-34.1 PAVEMENT MARKING MATERIAL, 9-34.1 GENERAL.

<b>CITY OF PUYALLUP</b> <small>DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</small>	<b>PAVEMENT ARROWS</b>				<small>CITY STANDARD</small>
	<small>DRAWN BY</small> JIM ERWIN-SVORODA	<small>CHECKED BY</small> LINDA LIAN	<small>APPROVED BY</small> COLLEEN HARRIS	<small>REVISED BY</small> LINDA LIAN	<small>DATE APPROVED</small> 07/01/2009
<small>FILE NAME</small> F:\DWG\CAD\COMMON\STD\DCITY\2009\01_STR01.0241.03.14	<small>DATE APPROVED</small> 07/01/2009	<small>DATE REVISED</small> 06/11/2013	<small>SCALE</small> 1/4	<b>01.03.14</b>	

**1 PAVEMENT ARROWS**  
NOT TO SCALE

NOTE:  
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<b>CITY OF PUYALLUP</b> <small>DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</small>	<b>PAVEMENT MARKER "ONLY"</b>				<small>CITY STANDARD</small>
	<small>DRAWN BY</small> JIM ERWIN-SVORODA	<small>CHECKED BY</small> LINDA LIAN	<small>APPROVED BY</small> COLLEEN HARRIS	<small>REVISED BY</small> LINDA LIAN	<small>DATE APPROVED</small> 07/01/2009
<small>FILE NAME</small> F:\DWG\CAD\COMMON\STD\DCITY\2009\01_STR01.0241.03.15	<small>DATE APPROVED</small> 07/01/2009	<small>DATE REVISED</small> 06/11/2013	<small>SCALE</small> 1/2	<b>01.03.15</b>	

**2 PAVEMENT MARKER "ONLY"**  
NOT TO SCALE

NOTE:  
ALL SIGN ASSEMBLIES SHALL USE A TELESPEAR POST, SLEEVE AND PARTS.

<b>CITY OF PUYALLUP</b> <small>DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</small>	<b>STREET SIGN DETAIL</b>				<small>CITY STANDARD</small>
	<small>DRAWN BY</small> JIM ERWIN-SVORODA	<small>CHECKED BY</small> LINDA LIAN	<small>APPROVED BY</small> COLLEEN HARRIS	<small>REVISED BY</small> XXXXXX	<small>DATE APPROVED</small> 07/01/2009
<small>FILE NAME</small> F:\DWG\CAD\COMMON\STD\DCITY\2009\01_STR01.0401.04.01	<small>DATE APPROVED</small> 07/01/2009	<small>DATE REVISED</small> XXXXXX	<small>SCALE</small> 1/1	<b>01.04.01</b>	

**3 STREET SIGN DETAIL**  
NOT TO SCALE

Revisions:

Sheet Title:

### CHANNELIZATION NOTES AND DETAILS

Designed by: MW    Drawn by: MW    Checked by: BB

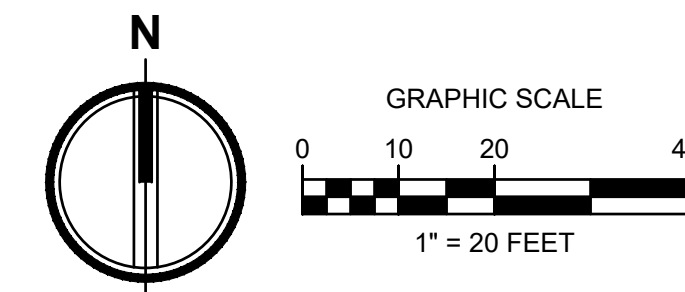
Sheet No.  
**C2.5**  
11 of 26 Sheets



# PUYALLUP 2ND STREET APARTMENTS

## A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.

### CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

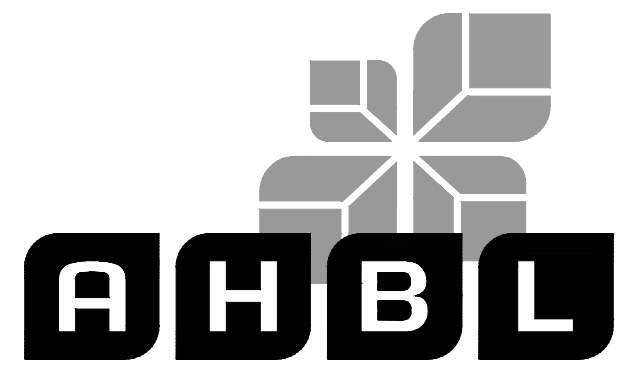


**APPROVED**

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DEVELOPMENT ENGINEERING

DATE: \_\_\_\_\_

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### LEGEND

- EG EXISTING GRADE
- FG FINISH GRADE
- TC TOP OF CURB
- PROPOSED TYPE 1 CATCH BASIN
- RD PROPOSED ROOF DRAIN
- ROOF DRAIN CLEANOUT
- ⊙ INFILTRATION DITCH

### GENERAL NOTES

- CONTRACTOR SHALL CONTACT UTILITY PURVEYORS PRIOR TO CONSTRUCTION.
- FOR BEDDING AND BACKFILL SEE CITY STD NO. 06.01.01 ON SHEET C3.2.
- SEE STORMWATER NOTES ON SHEET C3.2.
- FOR STORM CLEANOUT, SEE DETAIL 3, SHEET C3.1.
- ALL STORM DRAINS SHALL HAVE "NO DUMPING, DRAINS TO RIVER" STENCILED ADJACENT TO THEM. MARKINGS TO BE PRE-CUT 90MM TORCH DOWN HEAVY-DUTY INTERSECTION GRADE PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL.
- PROVIDE FOUNDATION DRAINS PER STRUCTURAL PLANS. CONTRACTOR TO COORDINATE FOUNDATION DRAIN CONNECTIONS TO STORM SYSTEM. FOUNDATION DRAINS SHALL NOT CONNECT TO ROOF DRAINS. FOUNDATION DRAIN CONNECTIONS SHALL BE 6" MIN. PVE @ 0.5% MIN. SLOPE. PROVIDE CLEANOUTS AT JUNCTIONS.

### EARTHWORK QUANTITIES

CUT = 24 CUBIC YARDS  
FILL = 3,487 CUBIC YARDS  
NET = 3,463 CUBIC YARDS (IMPORT)

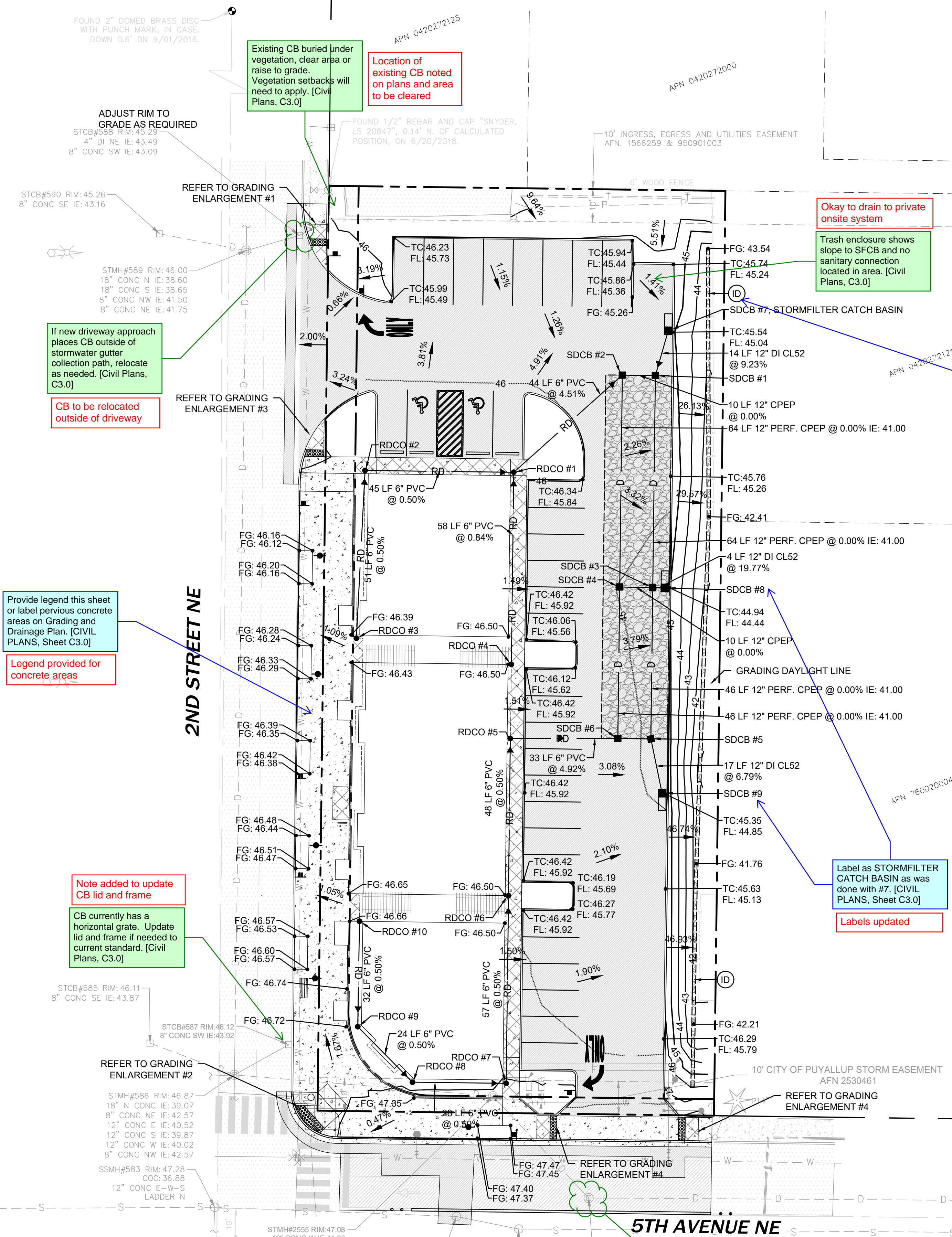
NOTES:  
1. THE ABOVE QUANTITIES ARE ESTIMATES ONLY INTENDED FOR THE PERMITTING PROCESS. DO NOT USE FOR BID PURPOSES. THE QUANTITIES DO NOT HAVE STRIPPING, COMPACTION, OR CUT OR FILL ADJUSTMENT FACTORS APPLIED TO THEM, NOR DO THEY ACCOUNT FOR PAVEMENT, SIDEWALK OR BUILDING SECTIONS.

### STORM STRUCTURE TABLE

SDCB #1 N 684379.01 E 1195036.57	RIM = 45.14 IE = 41.00 (12" W) IE = 41.00 (12" N) IE = 41.00 (12" S)
SDCB #2 N 684379.14 E 1195026.57	RIM = 45.34 IE = 41.50 (6" SW) IE = 41.00 (12" E) IE = 41.00 (12" S)
SDCB #3 N 684314.79 E 1195035.78	RIM = 44.61 IE = 41.00 (12" S) IE = 41.00 (12" N) IE = 41.00 (12" E) IE = 41.00 (12" W)
SDCB #4 N 684315.00 E 1195025.78	RIM = 44.96 IE = 41.00 (12" S) IE = 41.00 (12" N) IE = 41.00 (12" E) IE = 41.00 (12" W)
SDCB #5 N 684269.02 E 1195035.21	RIM = 44.91 IE = 41.00 (12" W) IE = 41.00 (12" N) IE = 41.00 (12" E) IE = 41.00 (12" S)
SDCB #6 N 684269.15 E 1195025.21	RIM = 45.21 IE = 41.00 (12" E) IE = 41.00 (12" N) IE = 41.00 (12" W) IE = 41.00 (12" S)
SDCB #7 N 684392.55 E 1195040.45	RIM = 45.05 IE = 42.30 (12" S)
SDCB #8 N 684314.72 E 1195039.47	RIM = 44.48 IE = 41.73 (12" W)
SDCB #9 N 684252.59 E 1195038.60	RIM = 44.89 IE = 42.14 (12" N)

### STORM STRUCTURE TABLE

RDCO #1 N 684349.72 E 1194993.71	RIM = 46.48 IE = 43.49 (6" W) IE = 43.49 (6" S) IE = 43.49 (6" NE)
RDCO #2 N 684350.28 E 1194948.71	RIM = 46.44 IE = 43.72 (6" E) IE = 43.72 (6" S)
RDCO #3 N 684299.48 E 1194946.08	RIM = 46.46 IE = 43.97 (6" N)
RDCO #4 N 684291.57 E 1194992.99	RIM = 46.4 IE = 43.98 (6" S)
RDCO #5 N 684269.14 E 1194992.66	RIM = 46.4 IE = 43.10 (6" S) IE = 43.10 (6" E)
RDCO #6 N 684221.58 E 1194992.12	RIM = 46.48 IE = 43.34 (6" S) IE = 43.34 (6" N)
RDCO #7 N 684164.74 E 1194991.42	RIM = 47.11 IE = 43.62 (6" W) IE = 43.62 (6" N)
RDCO #8 N 684165.09 E 1194963.06	RIM = 46.65 IE = 43.76 (6" NW) IE = 43.76 (6" E)
RDCO #9 N 684181.90 E 1194946.50	RIM = 46.55 IE = 43.88 (6" SE) IE = 43.88 (6" N)
RDCO #10 N 684213.79 E 1194947.02	RIM = 46.54 IE = 44.04 (6" S)



Clarify intent of infiltration/gravel ditch. Is this just for the run off from the slope east of the curbing? [CIVIL PLANS, Sheet C3.0]

Note added to clarify infiltration ditch only for run off from the slope

If new driveway approach places CB outside of stormwater gutter collection path, relocate as needed. [CIVIL PLANS, C3.0]

CB to be relocated outside of driveway

Provide legend this sheet or label previous concrete areas on Grading and Drainage Plan. [CIVIL PLANS, Sheet C3.0]

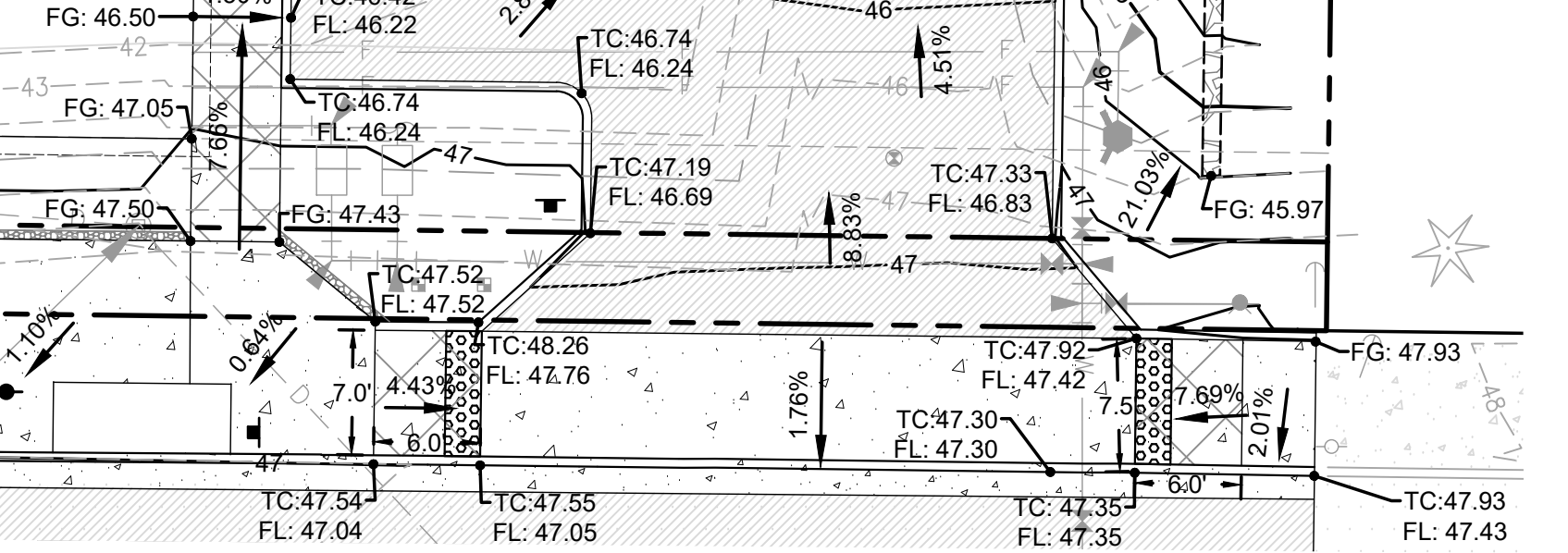
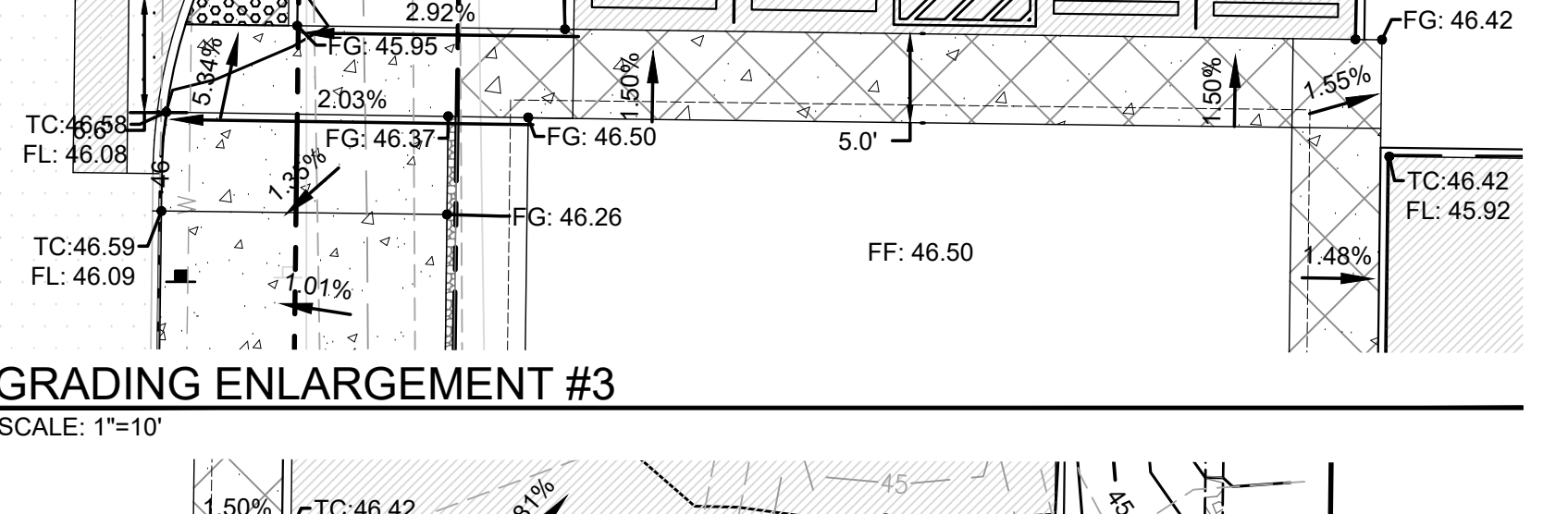
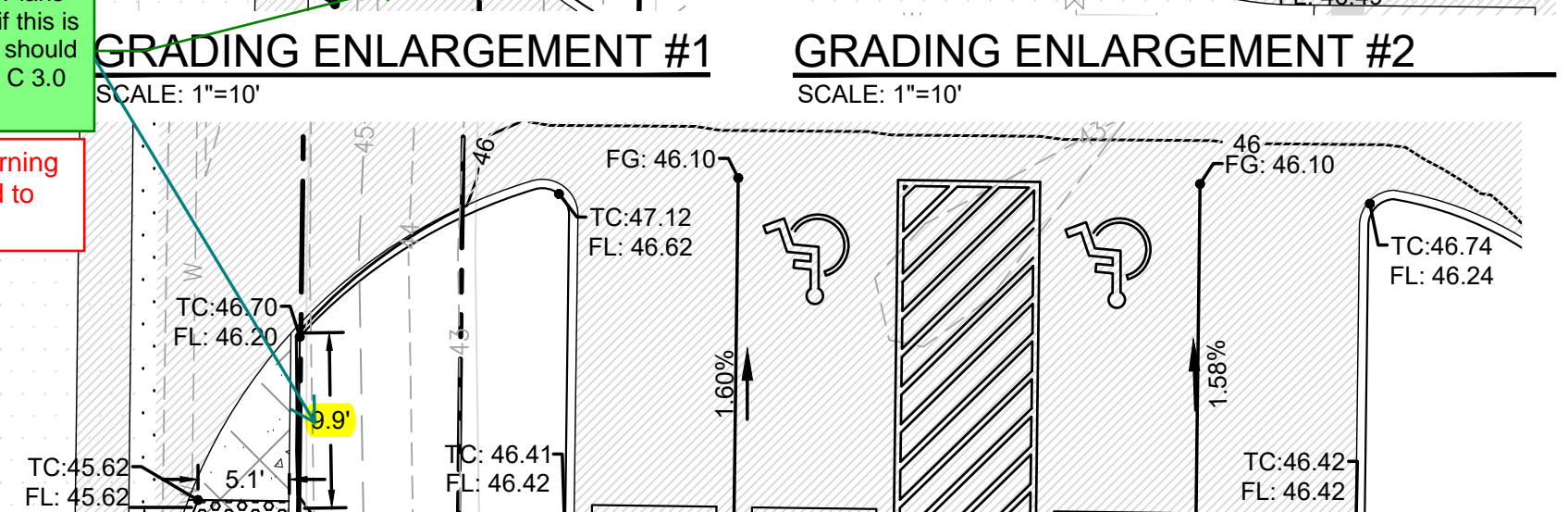
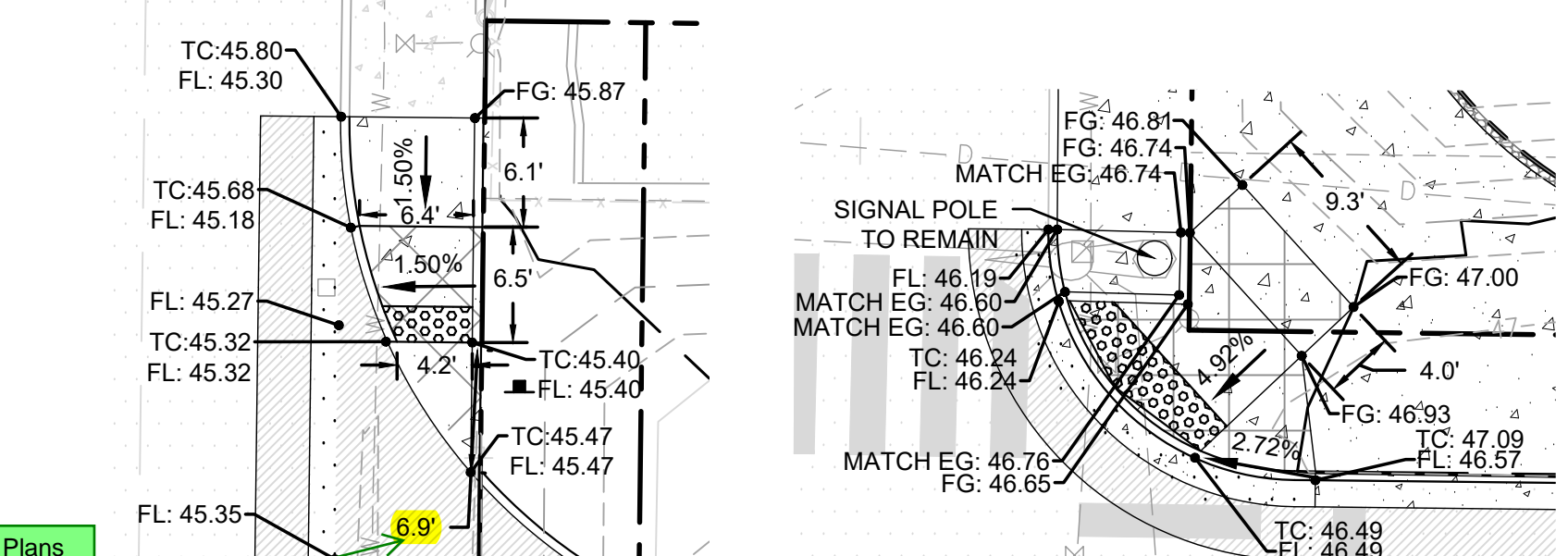
Legend provided for concrete areas

Note added to update CB lid and frame

CB currently has a horizontal grate. Update lid and frame if needed to current standard. [CIVIL PLANS, C3.0]

From this point, it is the preference of the collections division that the 12 inch stormwater piping be relocated to the right of way and discharged, continuing west to 2nd St NE, to a new structure. The ability to repair, replace or maintain the existing stormwater system in its current location would be greatly impacted with the proposed building structure so close. The then abandoned, existing pipes and manhole should be removed. [CIVIL PLANS, C3.0]

Storm main relocated to right-of-way



Project Title:

## PUYALLUP 2ND STREET APARTMENTS

Client:  
SPP MANUFACTURING

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No.

2190606.10

Issue Set & Date:

## SITE DEVELOPMENT PERMIT SET

2/7/2024



NOTICE: ALTERATION OF THIS DOCUMENT SHALL INVALIDATE THE PROFESSIONAL SEAL AND SIGNATURE. PUBLICATION OF THIS DOCUMENT DOES NOT CONSTITUTE PROFESSIONAL REVIEW OF THE DOCUMENT BY THE ENGINEER. THIS SEAL IS ONLY FOR THE PROJECT IDENTIFIED IN THE BLOCK AND IS NOT TO BE USED FOR ANY OTHER PROJECT.

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Revisions:

Sheet Title:

## GRADING AND DRAINAGE PLAN

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No.

# C3.0

12 of 26 Sheets



Know what's below.  
Call before you dig.

# PUYALLUP 2ND STREET APARTMENTS

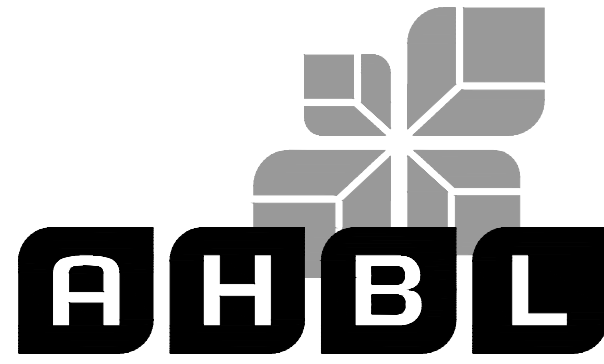
## A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

APPROVED

BY: CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE:

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



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2215 North 30th Street, Suite 300, Tacoma, WA 98403  
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title:

### PUYALLUP 2ND STREET APARTMENTS

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#### STORMFILTER CONCRETE CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 1 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF ONE CARTRIDGE. SYSTEM IS SHOWN WITH A 18" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 27" CARTRIDGE.

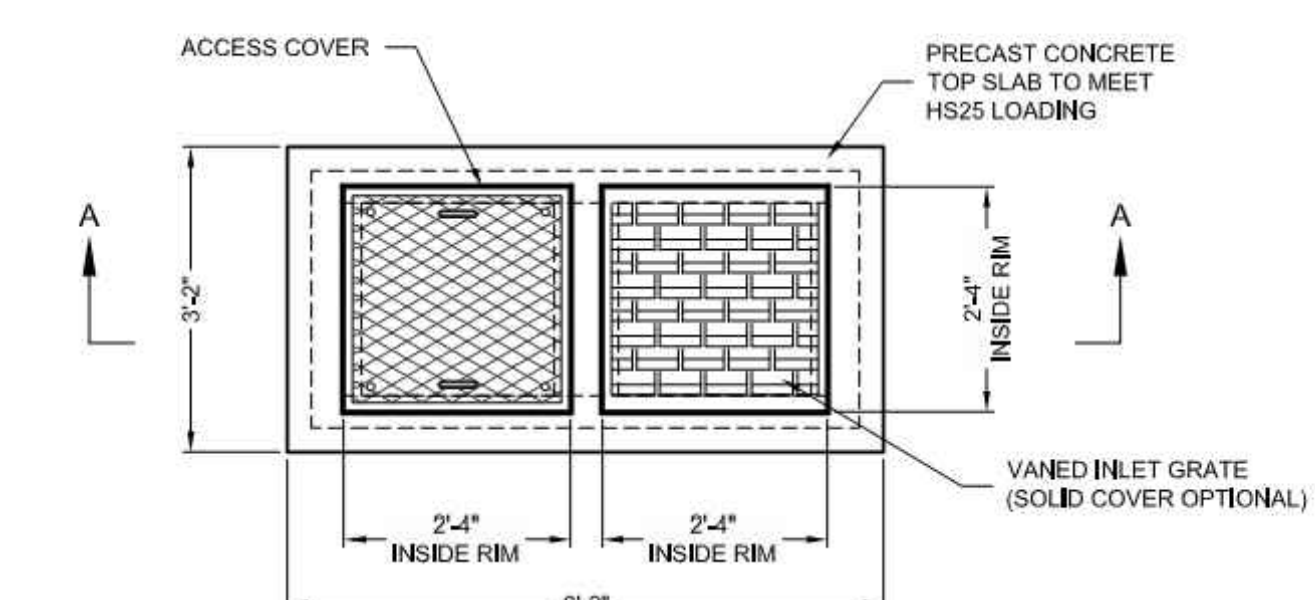
PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, A DOWNSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE HEIGHT	27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.3'			3.5'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67 gpm/sf	1 gpm/sf	2 gpm/sf	1.67 gpm/sf	1 gpm/sf	2 gpm/sf	1.67 gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY	1.0			1.0			1.2		
INLET PERMANENT POOL LEVEL (A)	1'-7"			1'-7"			2'-4"		
OVERALL STRUCTURE HEIGHT (B)	5'-0"			4'-0"			5'-0"		

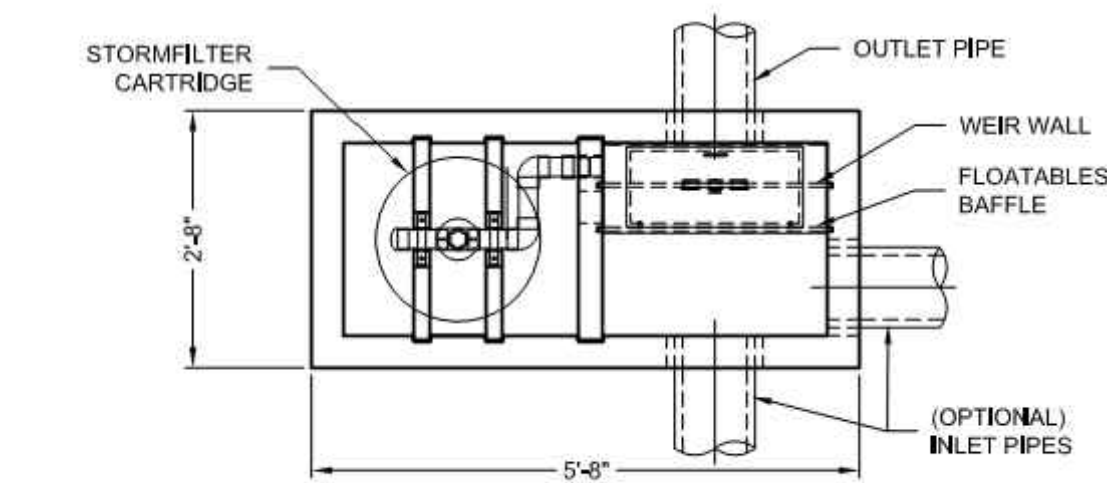
\* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

- GENERAL NOTES:**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
  - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE, [www.ContechES.com](http://www.ContechES.com)
  - STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
  - INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
  - CONCRETE STRUCTURE TO BE MANUFACTURED OF PRECAST CONCRETE TO MEET HS25 LOAD RATING. CASTINGS SHALL MEET AASHTO M306 LOAD RATING.
  - FILTER CARTRIDGES SHALL BE MEDIA FILLED, PASSIVE SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7" MIN. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
  - SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

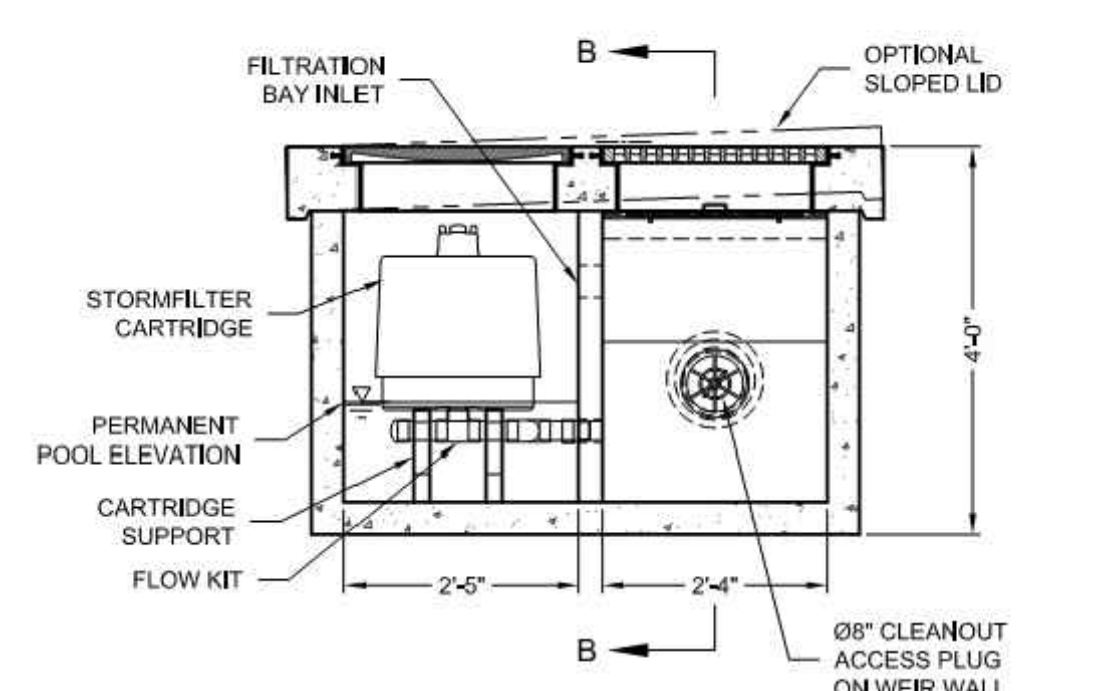
- INSTALLATION NOTES:**
- ANY SUBBASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
  - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES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



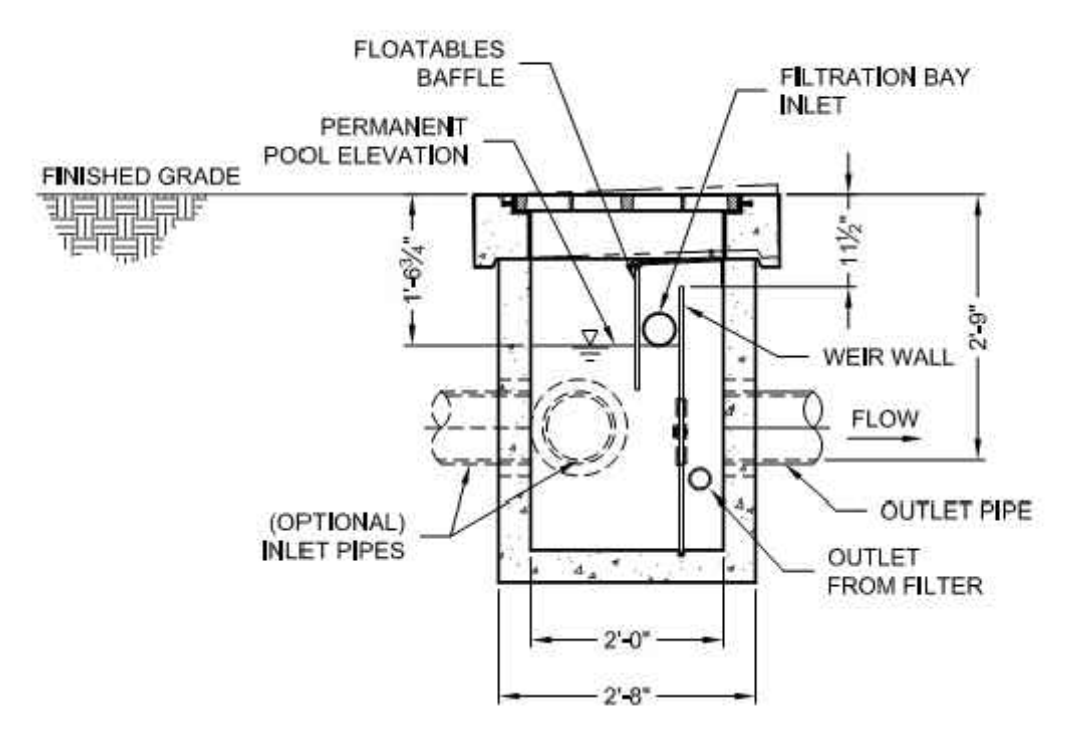
PLAN VIEW



PLAN VIEW WITHOUT TOP SLAB



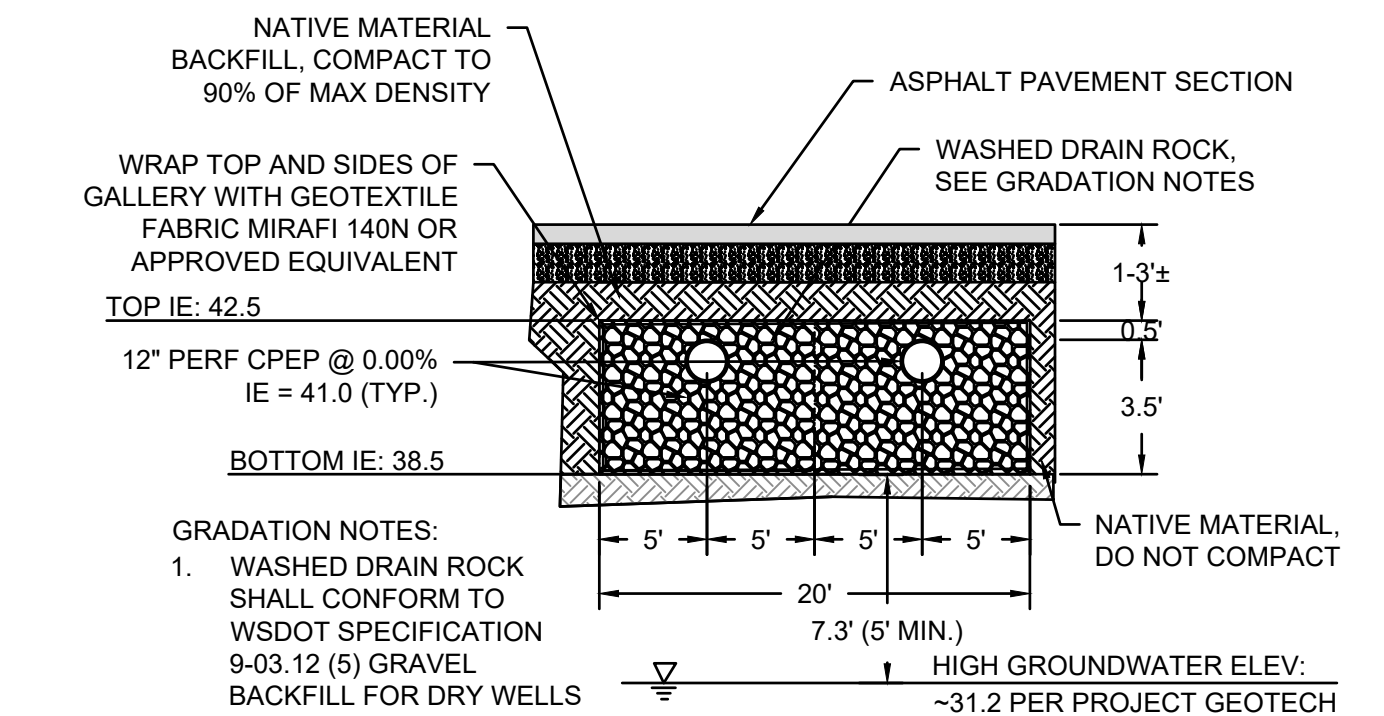
SECTION A-A



SECTION B-B

#### 1-CARTRIDGE CATCHBASIN STORMFILTER DATA

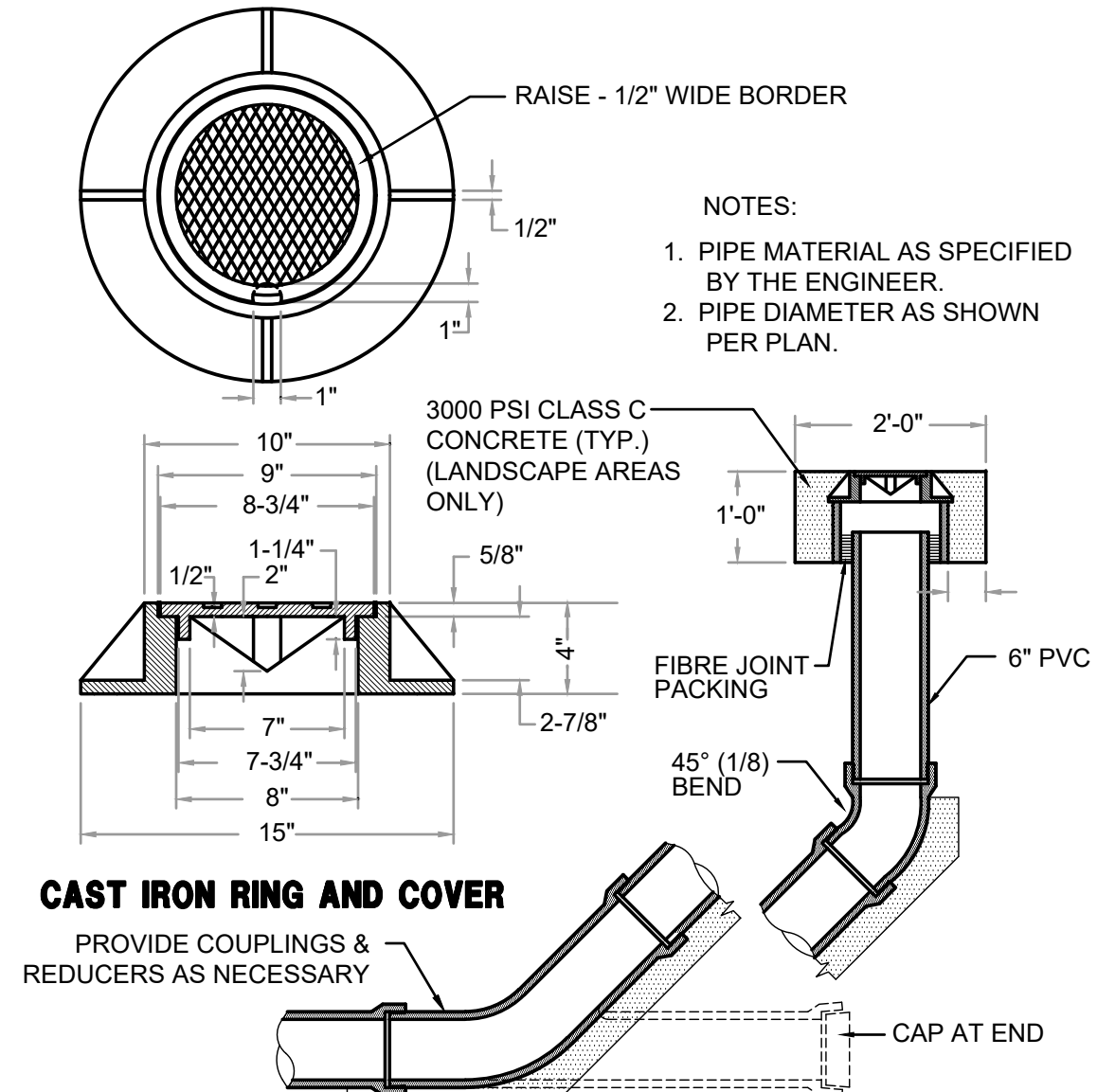
STRUCTURE ID	CB#7, CB#8, CB#9
WATER QUALITY FLOW RATE (cfs)	0.01, 0.01, 0.01
PEAK FLOW RATE (<1 cfs)	0.14, 0.09, 0.09
RETURN PERIOD OF PEAK FLOW (yrs)	100
CARTRIDGE HEIGHT (27", 18", 18" DEEP)	18"
CARTRIDGE FLOW RATE (gpm)	7.5
MEDIA TYPE (PERLITE, ZPG, PSORB)	ZPG
RIM ELEVATION	45.05, 45.13, 45.58
PIPE DATA:	I.E. DIAMETER
INLET STUB	NA
OUTLET STUB	42.05, 42.13, 42.55 12"
CONFIGURATION	OUTLET INLET
SLOPED LID	YES/NO
SOLID COVER	YES/NO
NOTES/SPECIAL REQUIREMENTS:	



**PROTECTION:**  
EXCAVATE INFILTRATION TRENCHES TO FINAL GRADE ONLY AFTER ALL DISTURBED AREAS IN THE UPGRADIENT PROJECT DRAINAGE AREA HAVE BEEN PERMANENTLY STABILIZED. THE SIDEWALLS AND BOTTOM OF THE INFILTRATION FACILITY EXCAVATION SHALL BE RAKED OR SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES AFTER FINAL EXCAVATION TO RESTORE INFILTRATION RATES.

**VERIFICATION:**  
PRIOR TO BACKFILL OF INFILTRATION TRENCH WITH GRAVEL, CONTRACTOR SHALL COORDINATE INFILTRATION VERIFICATION TESTING WITH GEOTECHNICAL ENGINEER. INFILTRATION VERIFICATION REPORT SHALL BE PROVIDED TO ENGINEER AND CITY OF PUYALLUP. VERIFICATION TESTING FOR INFILTRATION TRENCH SHALL CONSIST OF A MINIMUM OF 1 MODIFIED FALLING-HEAD PERCOLATION TEST. TESTING SHALL BE IN ACCORDANCE WITH ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.

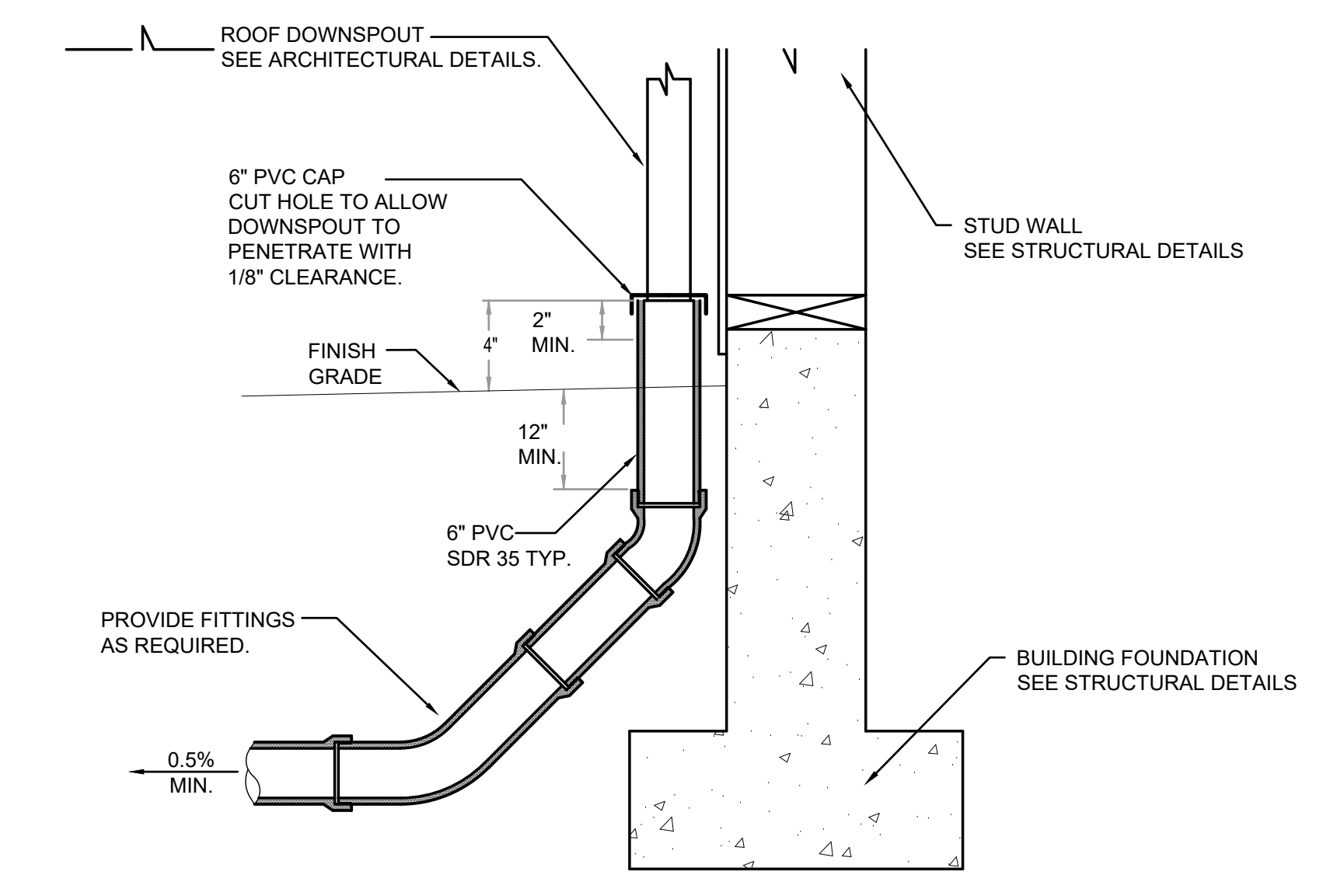
### 1 STORMFILTER NOT TO SCALE



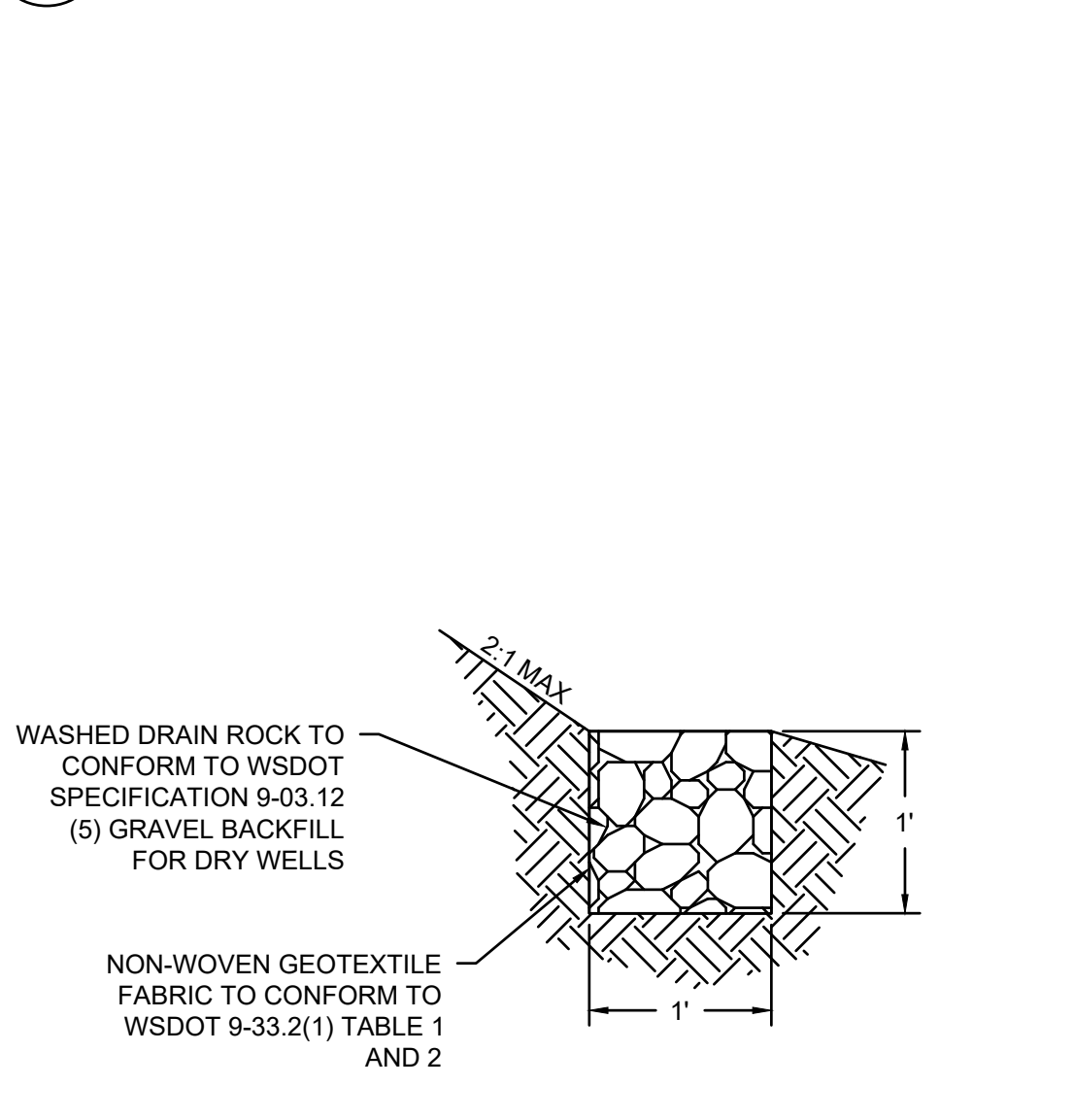
### 3 STORM CLEANOUT NOT TO SCALE

#### CONTECH ENGINEERED SOLUTIONS LLC 1 CARTRIDGE CONCRETE CATCHBASIN STORMFILTER STANDARD DETAIL

### 4 DOWNSPOUT CONNECTION NOT TO SCALE



### 2 INFILTRATION TRENCH DETAIL NOT TO SCALE



### 4 INFILTRATION DITCH NOT TO SCALE



Revisions:

Sheet Title:

### DRAINAGE NOTES AND DETAILS

Designed by: MW  
Drawn by: MW  
Checked by: BB

Sheet No.

# C3.1

13 of 26 Sheets

# PUYALLUP 2ND STREET APARTMENTS

## A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.

### CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

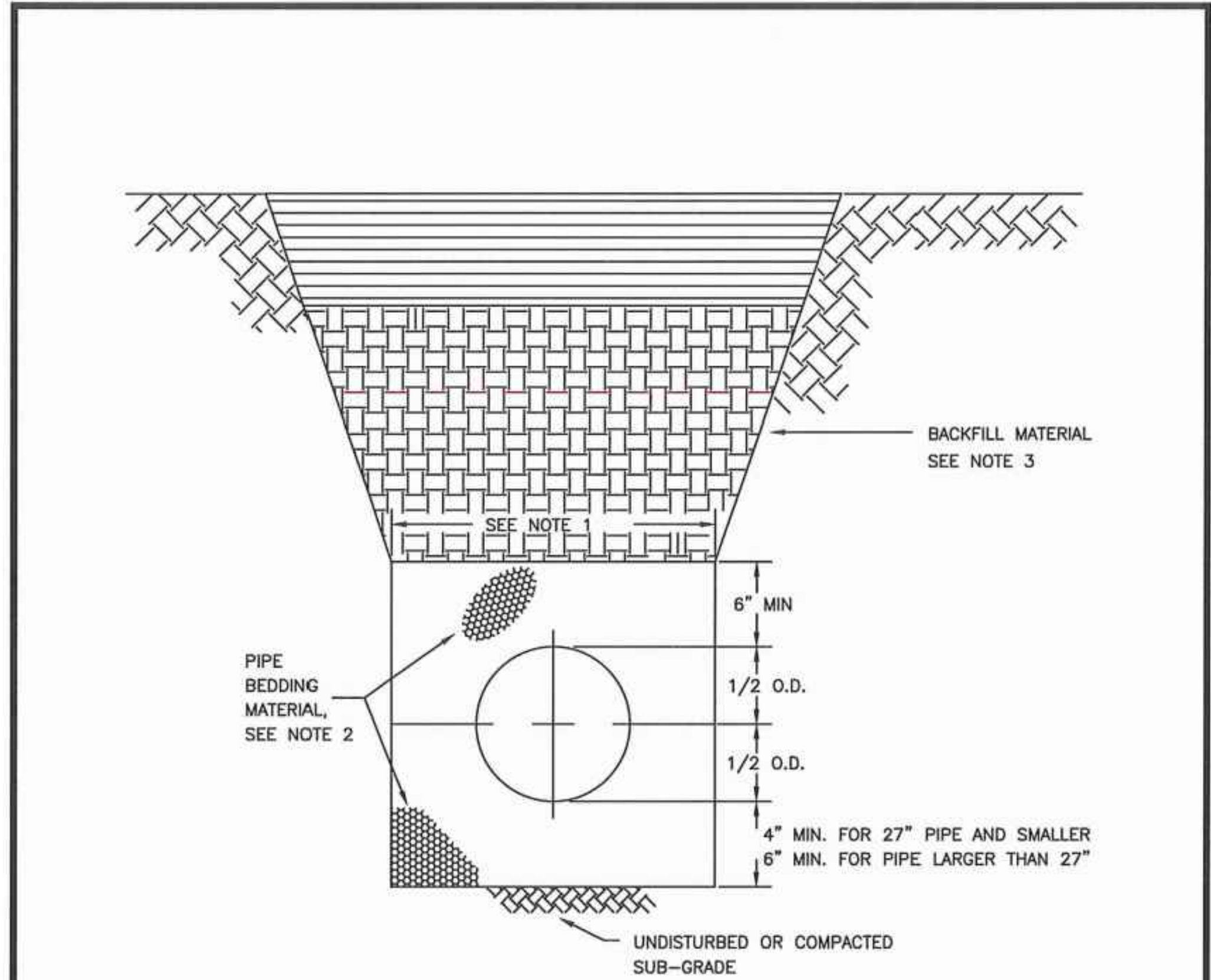
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253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title:



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.

#### STORMWATER NOTES:


1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
9. ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND 02.01.07.
10. MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL 06.01.02.
11. CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
12. CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE. CITY OF PUYALLUP - CITY STANDARDS STORM REVISED 10/2019
13. CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO.02.01.05. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-30.20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
14. STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE PIPE.
  - a. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
  - b. PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
  - c. CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT LESS THAN 3.0 FEET.
  - d. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
  - e. POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(1). 12-INCH THROUGH 30-INCH PIPE SHALL MEET OR EXCEED ASTM F2736 AND AASHTO M330, TYPE S, OR TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3- FEET.
15. TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
16. STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
17. ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
18. ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.

#### ILLUMINATION NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH CITY OF PUYALLUP PUBLIC WORKS STANDARDS AND WSDOT STANDARDS AND SPECIFICATIONS.
2. THE LOCATIONS OF FEATURES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION START.
3. UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ANY ILLUMINATION WORK.
4. ALL WORK SHALL BE CONSISTENT WITH UTILITY AGENCY REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE WITH AFFECTED UTILITY AGENCIES THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.
5. CONDUIT LOCATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD.
6. CONTRACTOR SHALL COORDINATE WITH THE CITY SIGNAL/ILLUMINATION TECHNICIAN AT 253.405.4390 PRIOR TO CONSTRUCTION.
7. THE LOCATION OF ALL CONDUITS, JUNCTION BOXES, POLES, AND CABINETS SHOWN ON THIS PLAN MAY BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS AND MEET ADA REQUIREMENTS. ALL FINAL LOCATIONS SHALL BE APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO CONSTRUCTION.
8. JUNCTION BOX LOCATIONS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. JUNCTION BOXES SHALL BE FIELD LOCATED BY THE CONTRACTOR WITH DIRECTION FROM THE CITY.
9. CONTRACTOR SHALL ADJUST JUNCTION BOX LIDS TO BE FLUSH WITH TOP OF SIDEWALK.
10. ANY NEW JUNCTION BOX WHICH WILL BE LOCATED WITHIN OR PARTIALLY WITHIN SIDEWALK SHALL HAVE LIDS AND FRAMES WITH A NON-SLIP COATING ON THE TOP SURFACE EQUAL TO MEBAC1 OR SLIPNOT#3.

#### ROADWAY NOTES:

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
3. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
4. A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
5. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
6. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRES REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. MONUMENTS SHALL BE INSTALLED AT ALL STREET INTERSECTIONS, AT ANGLE POINTS, AND POINTS OF CURVATURE IN EACH STREET. ALL BOUNDARY MONUMENTS MUST BE INSTALLED ACCORDING TO THE WASHINGTON STATE SUBDIVISION LAWS.
9. CURB AND GUTTER INSTALLATION SHALL CONFORM TO CITY STANDARD DETAIL 01.02.09.
10. SIDEWALKS AND DRIVEWAYS SHALL BE INSTALLED AS LOTS ARE BUILT ON. SIDEWALKS AND DRIVEWAYS SHALL CONFORM TO CITY STANDARD DETAIL 01.02.01, 01.02.02 AND 01.02.12. IF ASPHALT IS DAMAGED DURING REPLACEMENT OF CURB AND GUTTER, THE REPAIR SHALL CONFORM TO CITY STANDARD DETAIL 01.02.10.
11. THE SURROUNDING GROUND (5 FEET BEYOND THE BASE) FOR ALL POWER TRANSFORMERS, TELEPHONE/TV PEDESTALS, AND STREET LIGHT MAIN DISCONNECTS SHALL BE GRADED TO A POSITIVE 2 PERCENT SLOPE FROM TOP OF CURB.
12. SIGNAGE AND TRAFFIC CONTROL DEVICES ARE SAFETY ITEMS AND SHALL BE INSTALLED PRIOR TO ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY OR PLAT APPROVAL. HOWEVER, IN LARGER DEVELOPMENTS, EXACT LOCATIONS OF STOP AND YIELD SIGNS MAY NEED TO BE DETERMINED AFTER FULL BUILDOUT WHEN TRAFFIC PATTERNS HAVE BEEN ESTABLISHED. IN THIS CASE, CONTRACTOR SHALL PROVIDE INDICATED "CITY-PLACED" SIGNS, SIGNPOSTS, AND BRACKETS TO THE CITY SIGN SPECIALIST (253) 841-5471 FOR LATER INSTALLATION BY THE CITY. ALL SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
13. PRIOR TO ANY SIGN OR STRIPING INSTALLATION OR REMOVAL THE CONTRACTOR SHALL CONTACT THE CITY SIGN SPECIALIST (253) 841-5471 TO ARRANGE FOR AN ON-SITE MEETING TO DISCUSS PLACEMENT AND UNIFORMITY.
14. NEW OR REVISED STOP SIGNS OR YIELD SIGNS SHALL BE ADVANCE WARNED USING THE PROCEDURE OUTLINED IN THE MUTCD. ADVANCE WARNING SIGNS AND FLAGS SHALL BE MAINTAINED BY INSTALLER FOR 30 DAYS AND THEN REMOVED.



**CITY OF PUYALLUP**  
OFFICE  
of  
THE CITY ENGINEER

**PIPE TRENCHING  
BEDDING AND BACKFILL**

DRAWN BY JIM ERWIN-SVOBODA	CHECKED BY TED HILL	APPROVED BY MARK PALMER	REVISED BY V STOCKMAN	DATE REVISED: 03/21/11 02/15/17 XXXXXX XXXXXX	CITY STANDARD <b>06.01.01</b>
FILE NAME: F:\DWG\COMMON\STD\CI\TYSTD\06_MISC\06.0106.01.01	DATE APPROVED: 07/01/2009	SCALE: 1:1			

**1** PIPE TRENCHING BEDDING AND BACKFILL  
NOT TO SCALE



### PUYALLUP 2ND STREET APARTMENTS

Client:  
**SPP MANUFACTURING**

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No.  
2190606.10

Issue Set & Date:  
**SITE DEVELOPMENT PERMIT SET**  
2/7/2024



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Revisions:

Sheet Title:

### DRAINAGE NOTES AND DETAILS

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No.  
**C3.2**  
14 of 26 Sheets

# PUYALLUP 2ND STREET APARTMENTS

A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY: CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE: \_\_\_\_\_

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

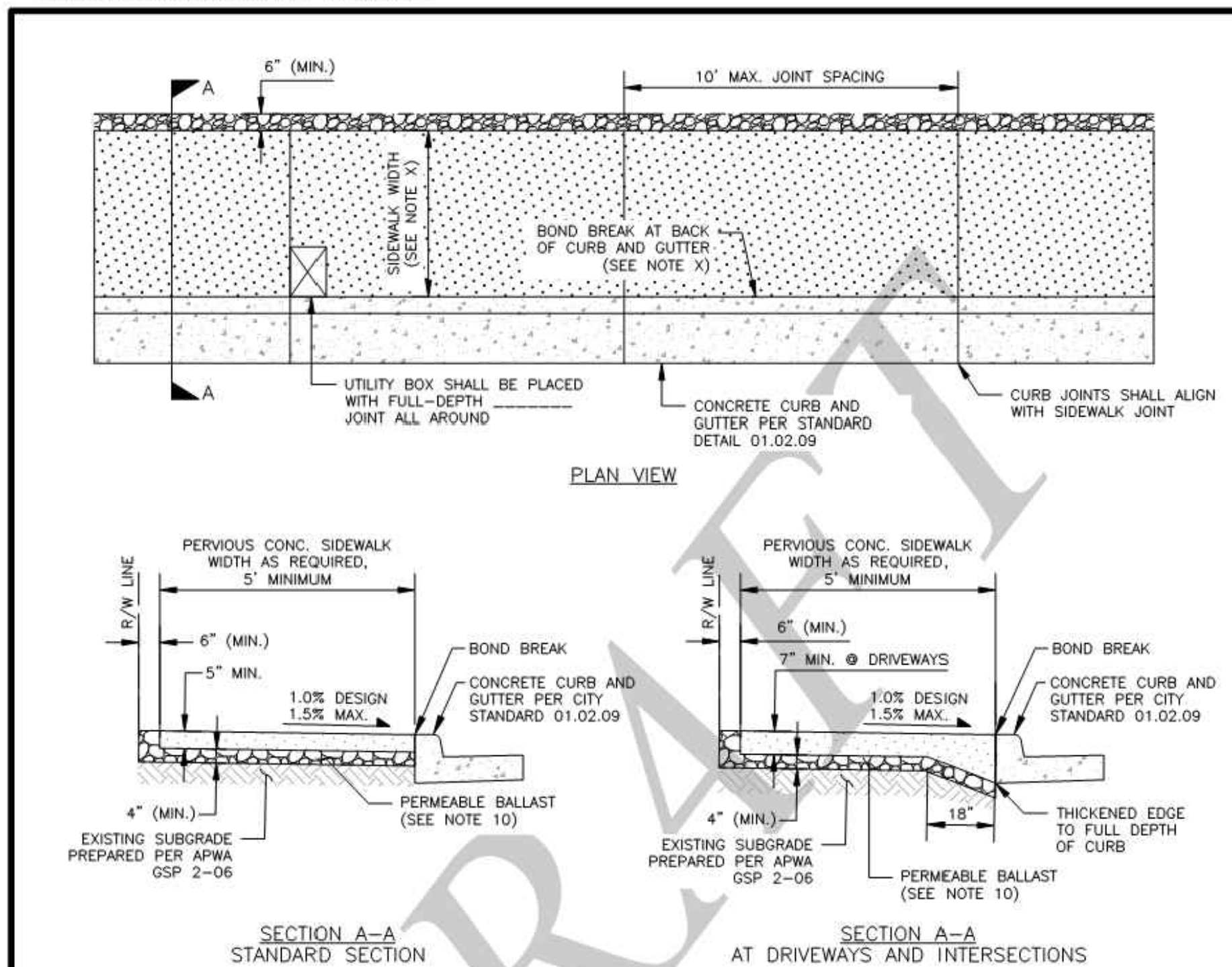


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2215 North 30th Street, Suite 300, Tacoma, WA 98403  
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Project Title: \_\_\_\_\_

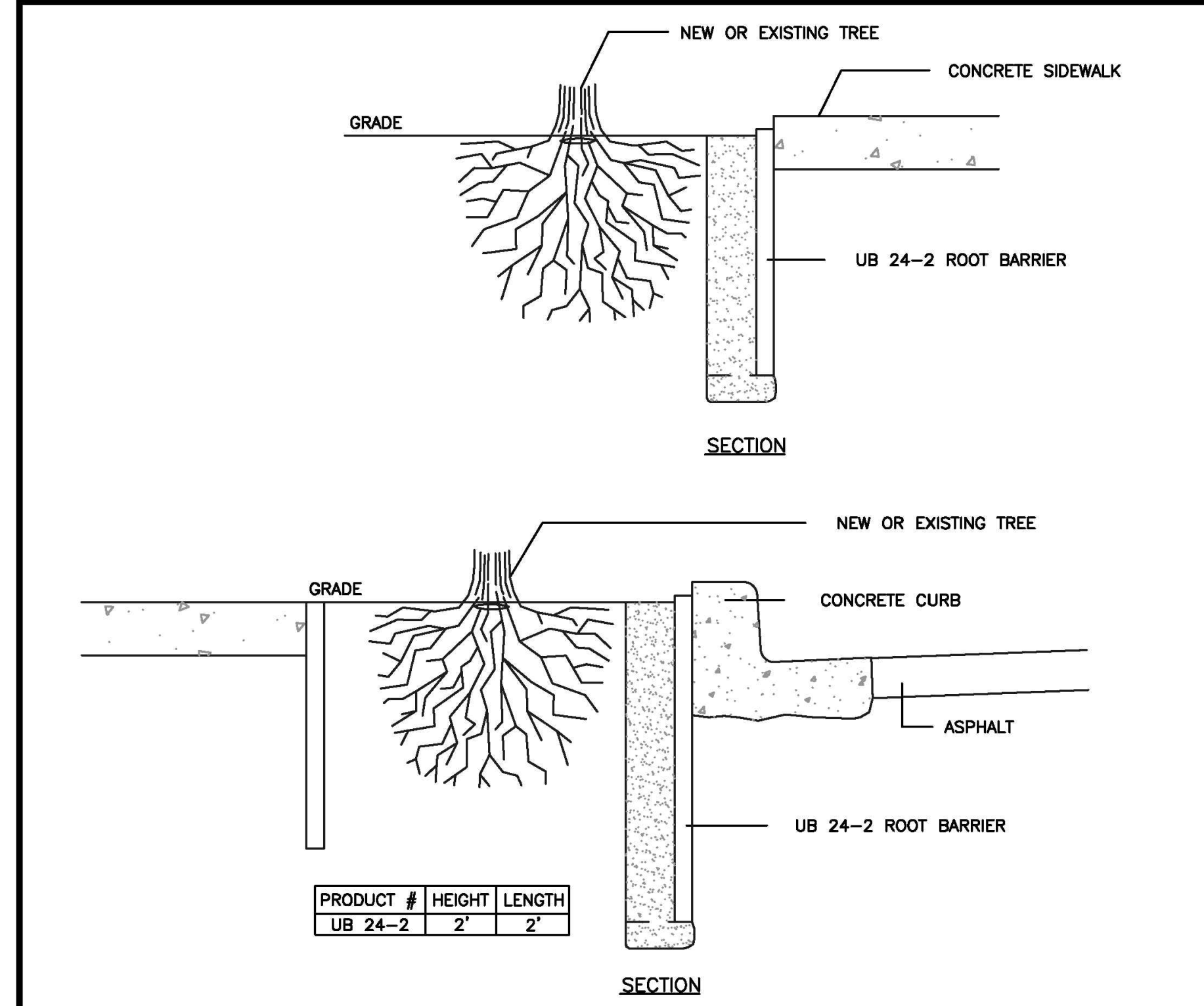
DRAFT REVISION DATE: 06/04/2018



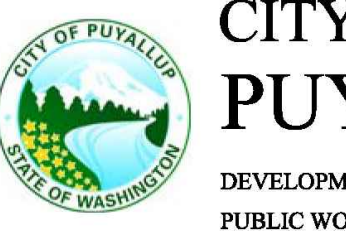
- NOTES:**
- CONTRACTION JOINTS SHALL HAVE A MINIMUM THICKNESS, SOFF-CUT/EARLY ENTRY SAW CUTS, PLACED AT 10' O.C., MAXIMUM.
  - EXPANSION JOINTS SHALL BE 3/8" FULL-DEPTH, ASPHALT SATURATED FELT PLACED AT DRIVEWAYS AND ALLEY RETURNS.
  - ALL HAND-TOOLED JOINTS SHALL BE CLEAN AND EDGED TO A 1/4" RADIUS. JOINTS SHALL BE FLUSH WITH THE FINISHED SURFACE.
  - ALL UTILITY POLES AND STREET SIGN POSTS IN SIDEWALK AREA NOT REQUIRED TO BE RELOCATED SHALL HAVE A SQUARE OR CIRCULAR SECTION OF COMMERCIAL 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.
  - FORMS SHALL BE STEEL AND SHALL MEET ALL REQUIREMENTS OF THESE SPECIFICATIONS.
  - PERVIOUS CONCRETE SHALL BE PER CITY OF PUYALLUP STANDARD REQUIREMENTS.
  - REQUIRED SIDEWALK WIDTH SHALL BE DICTATED BY ROADWAY CLASSIFICATION OR SECTION 101.8, WHICHEVER IS GREATER. SIDEWALK MINIMUM UNOBSTRUCTED CLEAR WIDTH SHALL BE 4', EXCLUSIVE OF THE WIDTH OF THE CURB.
  - GRATINGS, ACCESS COVERS, JUNCTION BOXES, CABLE VAULTS, PULL BOXES AND OTHER APPURTENANCES WITHIN THE SIDEWALK (RIGHT-OF-WAY) MUST HAVE AN ADA COMPLIANT, SLIP RESISTANT (NON-SLIP) SURFACE AND MATCH THE GRADE OF THE SIDEWALK.
  - CURB RAMP 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.
  - PERMEABLE BALLAST SHALL MEET THE REQUIREMENTS OF APWA GSP 4-04. DEPTH SHALL BE 4" MINIMUM, BUT ADDITIONAL DEPTH MAY BE REQUIRED BASED ON THE STORMWATER DESIGN REQUIREMENTS.
  - INSTALL SUBGRADE CHECK DAMS OR TERRACE SUBGRADE WHEN LONGITUDINAL SLOPE EXCEEDS 2%.

 <b>CITY OF PUYALLUP</b> OFFICE OF THE CITY ENGINEER	 APPROVED FOR PUBLICATION [Signature]	<b>SIDEWALK WITHOUT PLANTER STRIP (PERMEABLE OPTION)</b> (NOT TO SCALE) DATE: 01.02.01A
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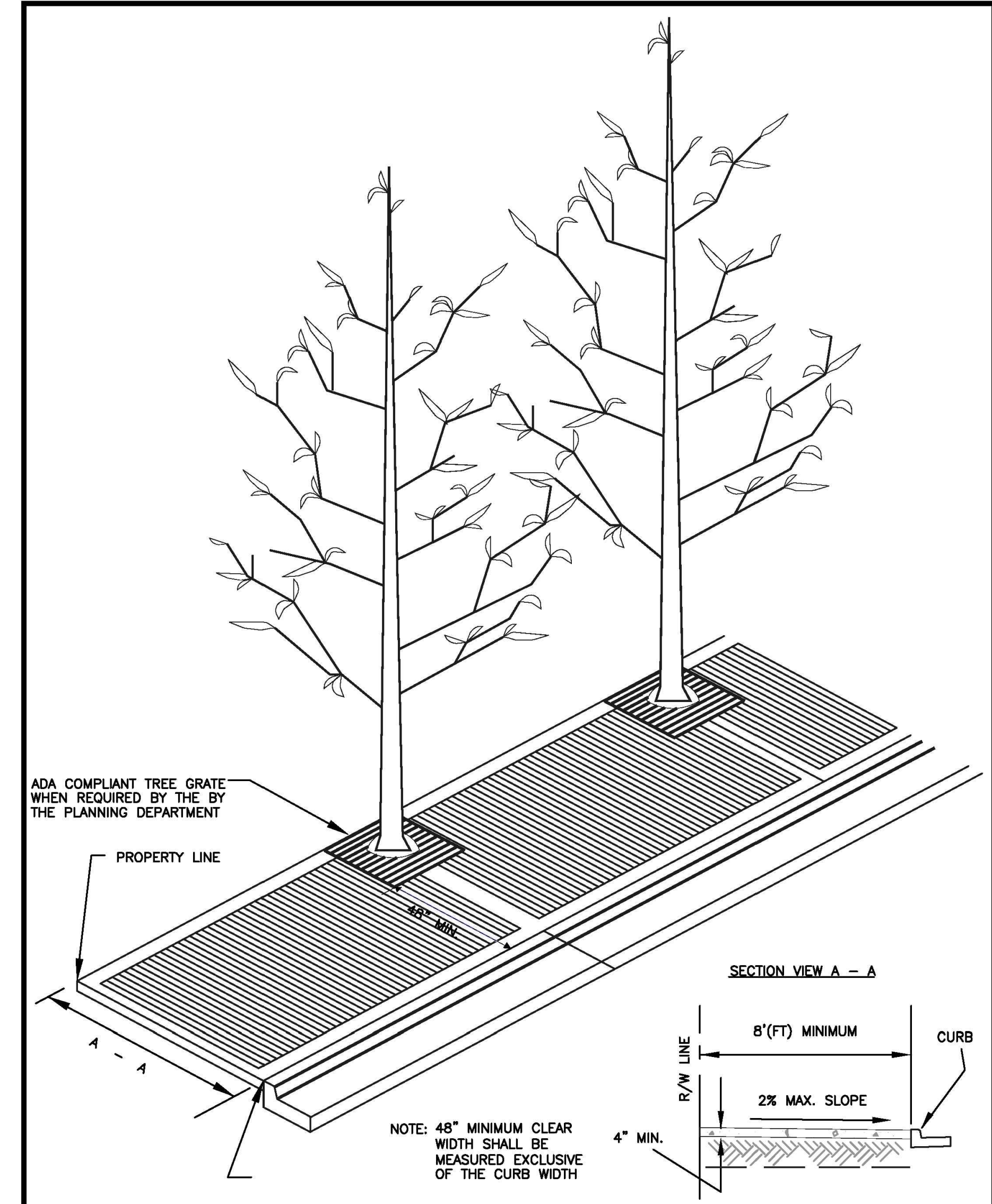
**1 SIDEWALK WITHOUT PLANTING STRIP**  
NOT TO SCALE




- NOTES:**
- ROOT BARRIERS SHALL BE REQUIRED IN ALL STREET TREE PLANTING INSTALLATIONS WHETHER NEW OR EXISTING, WHEN STREET TREES ARE INSTALLED IN RIGHT-OF-WAY OR IN A PLANTING EASEMENT\*.
  - ROOT BARRIERS USED SHALL BE DeepRoot ROOT BARRIERS OR EQUIVALENT.
  - UB - 24 SHALL BE USED
  - ROOT BARRIERS SHALL BE INSTALLED IF REQUIRED BY THE CITY.
  - INSTALLATION OF ROOT BARRIERS TO BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
  - THE PANEL SHALL BE INSTALLED SO THE VERTICAL RIBS FACE THE ROOTS OF THE TREE. A MINIMUM OF FOUR (4) PANELS SHALL BE INSTALLED ON EACH SIDE OF ROOT BALL FOR 8' OF PROTECTION.
  - FOR PRODUCT INFORMATION VISIT:  
[http://www.deeproot.com/template.php?sec=products&nov=treeRoot&content=rb\\_app&sub=2&is=1](http://www.deeproot.com/template.php?sec=products&nov=treeRoot&content=rb_app&sub=2&is=1)
- \*"PLANTING EASEMENT" SHALL MEAN THAT PORTION OF LAND MADE AVAILABLE AS A PUBLIC EASEMENT FOR THE PURPOSE OF PLANTING AND MAINTAINING CITY STREET TREES. ALL STREET TREES PLANTED WITHIN A PLANTING EASEMENT SHALL BE PLANTED WITHIN THREE FEET OF RIGHT-OF-WAY.

 <b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	<b>ROOT BARRIER DETAIL</b>
DRAWN BY: JIM ERWIN-SVOBODA CHECKED BY: CHRIS BEALE APPROVED BY: COLLEEN HARRIS REVISION BY: LINDA LIAN CITY STANDARD FILE NAME: P:\DWG\CAD\COMMON\STD\CITY\2009\01_STR\01.02\01.02.03 DATE APPROVED: 07/01/2009 DATE REVISED: 06/01/2015 SCALE: 1"=0' 01.02.03	

**2 ROOT BARRIER DETAIL**  
NOT TO SCALE



 <b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	<b>STREET TREE PLANTER BLOCKOUTS FOR SIDEWALKS</b>
DRAWN BY: JIM ERWIN-SVOBODA CHECKED BY: LINDA LIAN APPROVED BY: COLLEEN HARRIS REVISION BY: LINDA LIAN CITY STANDARD FILE NAME: P:\DWG\CAD\COMMON\STD\CITY\2009\01_STR\01.02\01.02.04 DATE APPROVED: 07/01/2009 DATE REVISED: 02/11/11 SCALE: 1"=0' 01.02.04	

**3 STREET TREE PLANTER BLOCKOUTS FOR SIDEWALKS**  
NOT TO SCALE

## PUYALLUP 2ND STREET APARTMENTS

Client: SPP MANUFACTURING

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No. 2190606.10

Issue Set & Date: SITE DEVELOPMENT PERMIT SET  
2/7/2024



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Revisions:

Sheet Title: \_\_\_\_\_

### DRAINAGE NOTES AND DETAILS

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Sheet No. **C3.3**  
15 of 26 Sheets



# PUYALLUP 2ND STREET APARTMENTS

A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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Project Title:

## PUYALLUP 2ND STREET APARTMENTS

Client:  
SPP MANUFACTURING

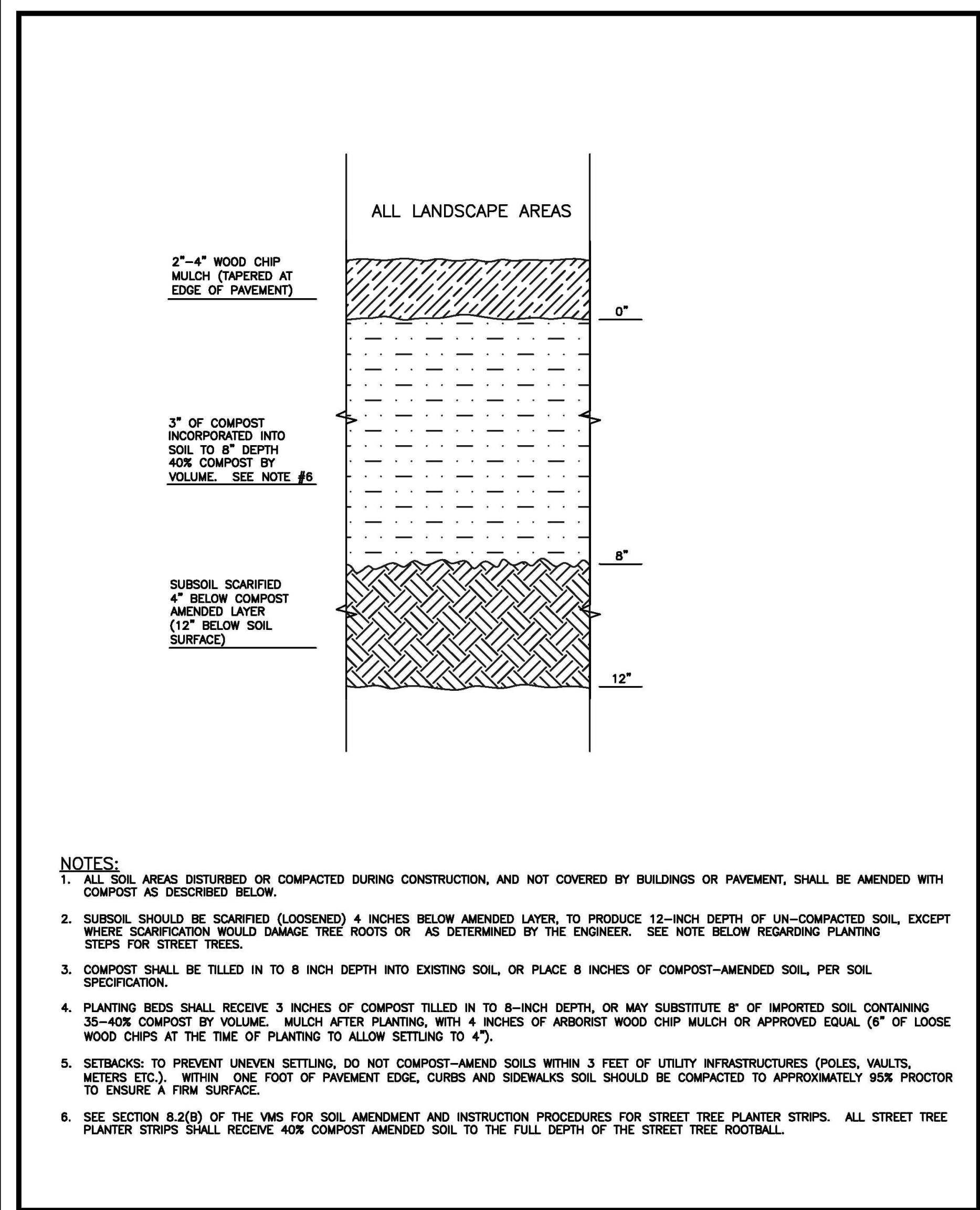
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DON HUBER

Project No.  
2190606.10

Issue Set & Date:  
**SITE DEVELOPMENT PERMIT SET**  
2/7/2024



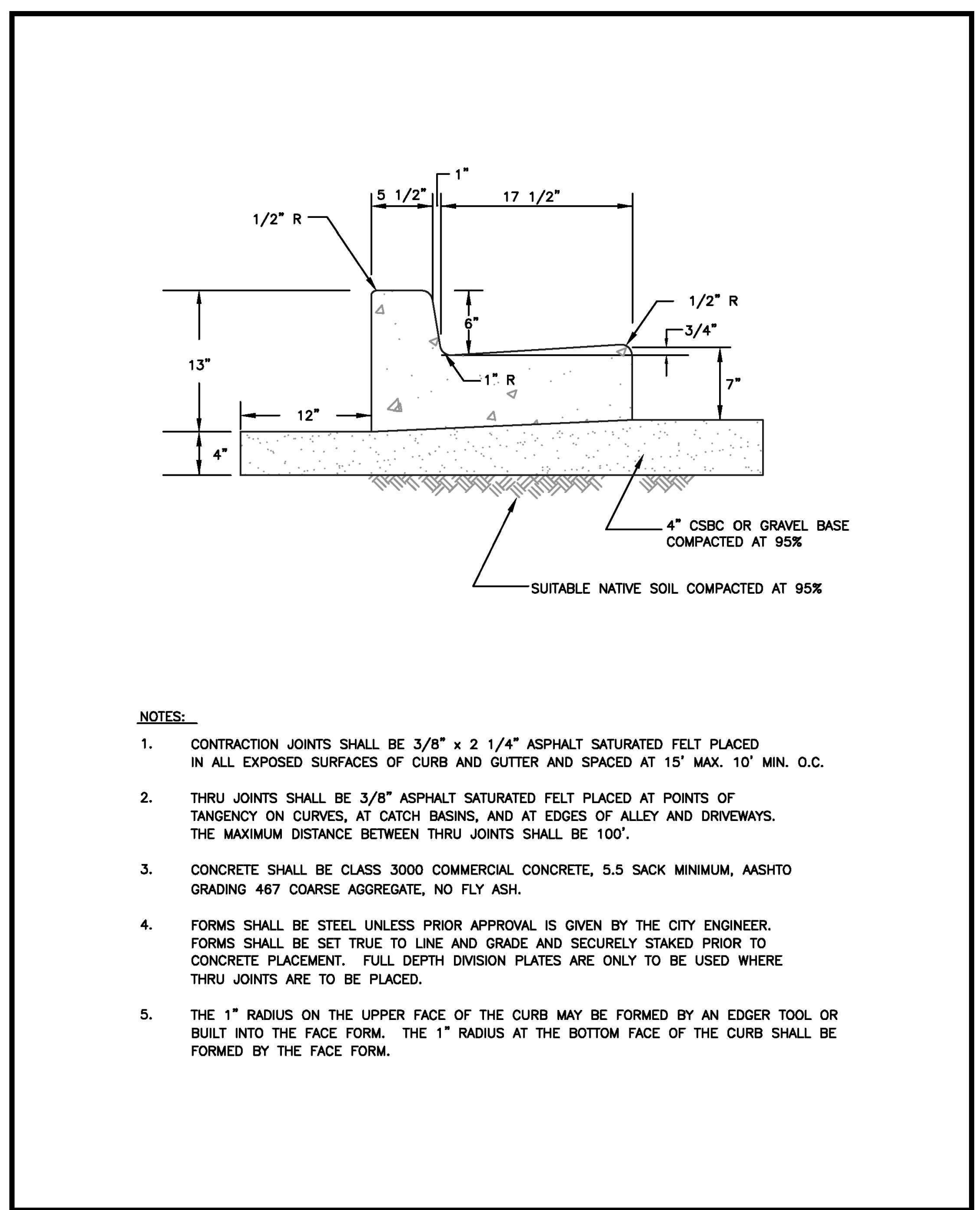
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- NOTES:**
- ALL SOIL AREAS DISTURBED OR COMPACTED DURING CONSTRUCTION, AND NOT COVERED BY BUILDINGS OR PAVEMENT, SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.
  - SUBSOIL SHOULD BE SCARIFIED (LOOSENED) 4 INCHES BELOW AMENDED LAYER, TO PRODUCE 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.
  - COMPOST SHALL BE TILLED IN TO 8 INCH DEPTH INTO EXISTING SOIL, OR PLACE 8 INCHES OF COMPOST-AMENDED SOIL, PER SOIL SPECIFICATION.
  - PLANTING BEDS SHALL RECEIVE 3 INCHES OF COMPOST TILLED IN TO 8-INCH DEPTH, OR MAY SUBSTITUTE 8\"/>

<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>SOIL AMENDMENT AND DEPTH</b>			
	DRAWN BY LINDA LIAN	CHECKED BY CHRIS BEALE	APPROVED BY COLLEEN HARRIS	REVISION BY XXXX
	FILE NAME F:\DWG\COMMON\STD\STR01.02.08	DATE APPROVED 08/01/2015	DATE REVISION XX/XX/XX	SCALE 1:1

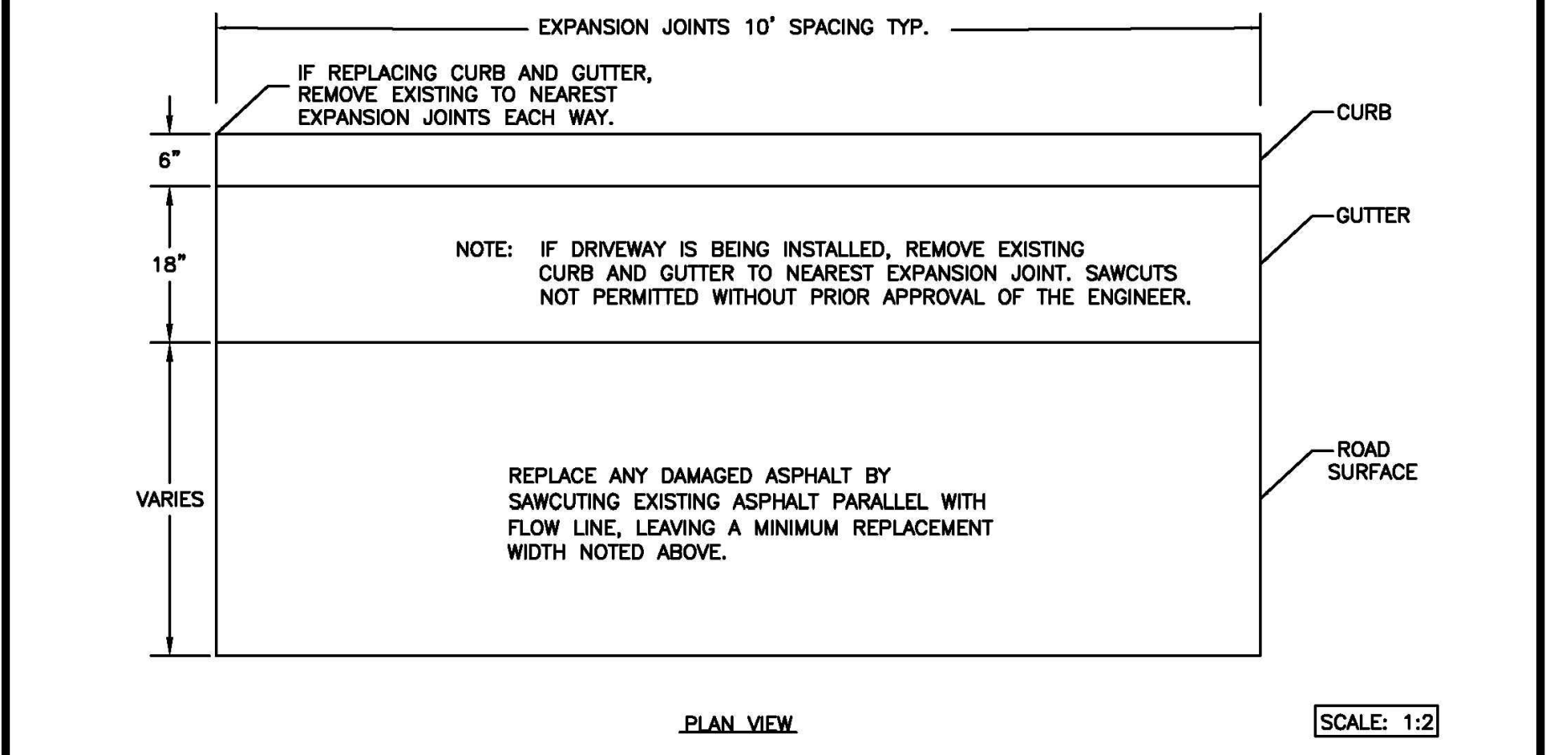
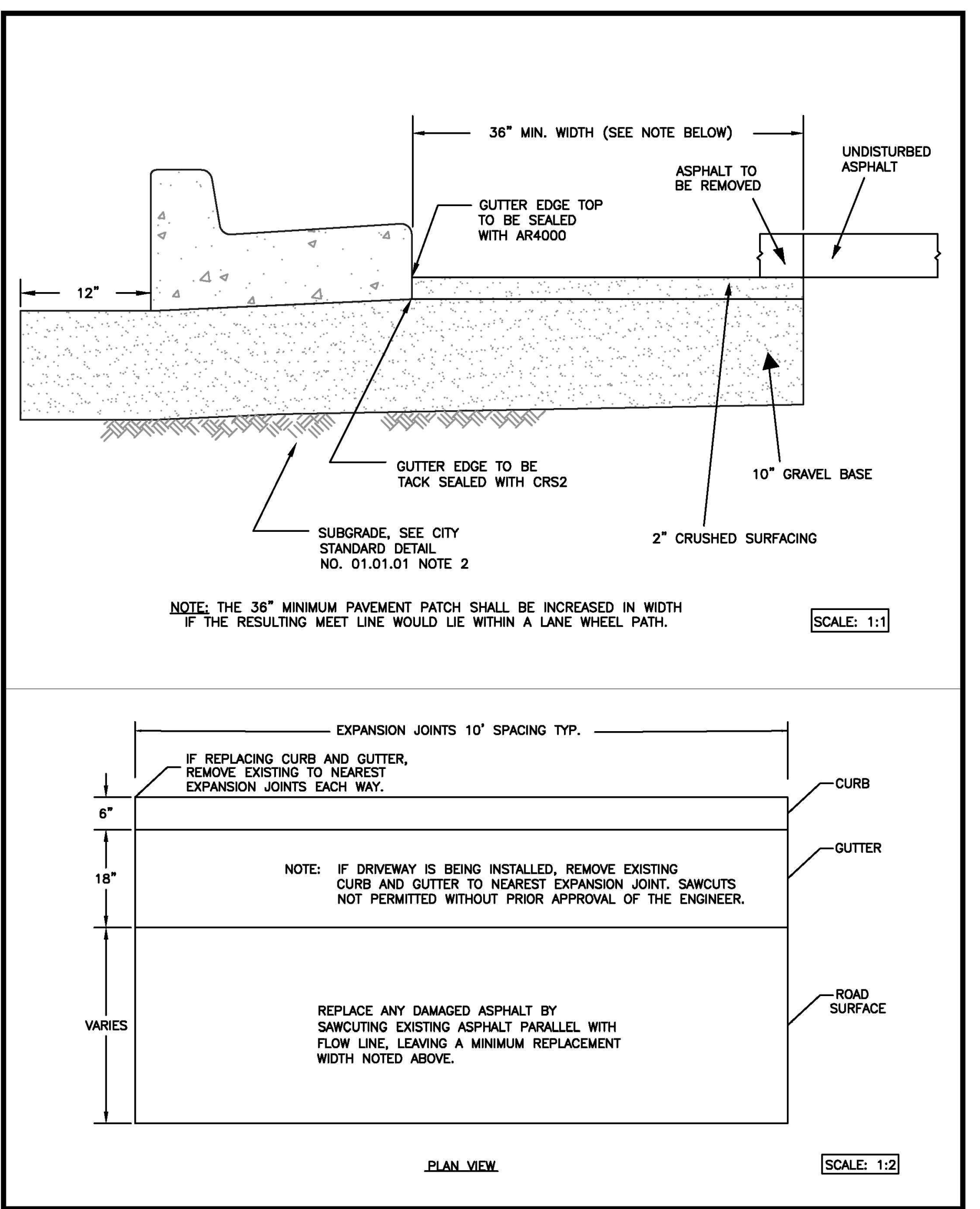
**1 SOIL AMENDMENT AND DEPTH**  
NOT TO SCALE



- NOTES:**
- 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.
  - 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'.
  - CONCRETE SHALL BE CLASS 3000 COMMERCIAL CONCRETE, 5.5 SACK MINIMUM, AASHTO GRADING 467 COARSE AGGREGATE, NO FLY ASH.
  - 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.
  - 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.

<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>CURB AND GUTTER</b>			
	DRAWN BY JIM ERWIN-SVOBODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISION BY Linda Lian
	FILE NAME F:\DWG\COMMON\STD\STR00901_STR01.02.01.02.09	DATE APPROVED 07/01/2009	DATE REVISION 05/23/12	SCALE 1:1

**2 CURB AND GUTTER**  
NOT TO SCALE



<p><b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS</p>	<b>CURB CUT</b>			
	DRAWN BY JIM ERWIN-SVOBODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISION BY XXXX
	FILE NAME F:\DWG\COMMON\STD\STR00901_STR01.02.01.02.10	DATE APPROVED 07/01/2009	DATE REVISION XX/XX/XX	SCALE VARIES

**3 CURB CUT**  
NOT TO SCALE



### DRAINAGE NOTES AND DETAILS

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No.

C3.4

16 of 26 Sheets



# PUYALLUP 2ND STREET APARTMENTS

A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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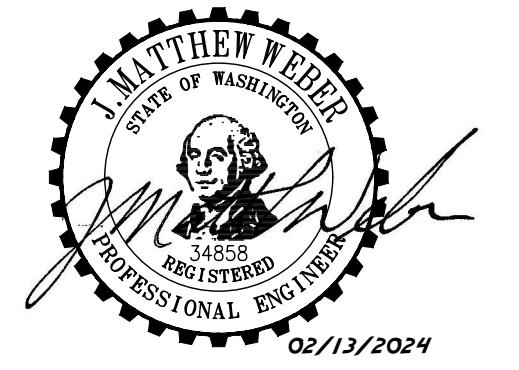
## PUYALLUP 2ND STREET APARTMENTS

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SPP MANUFACTURING

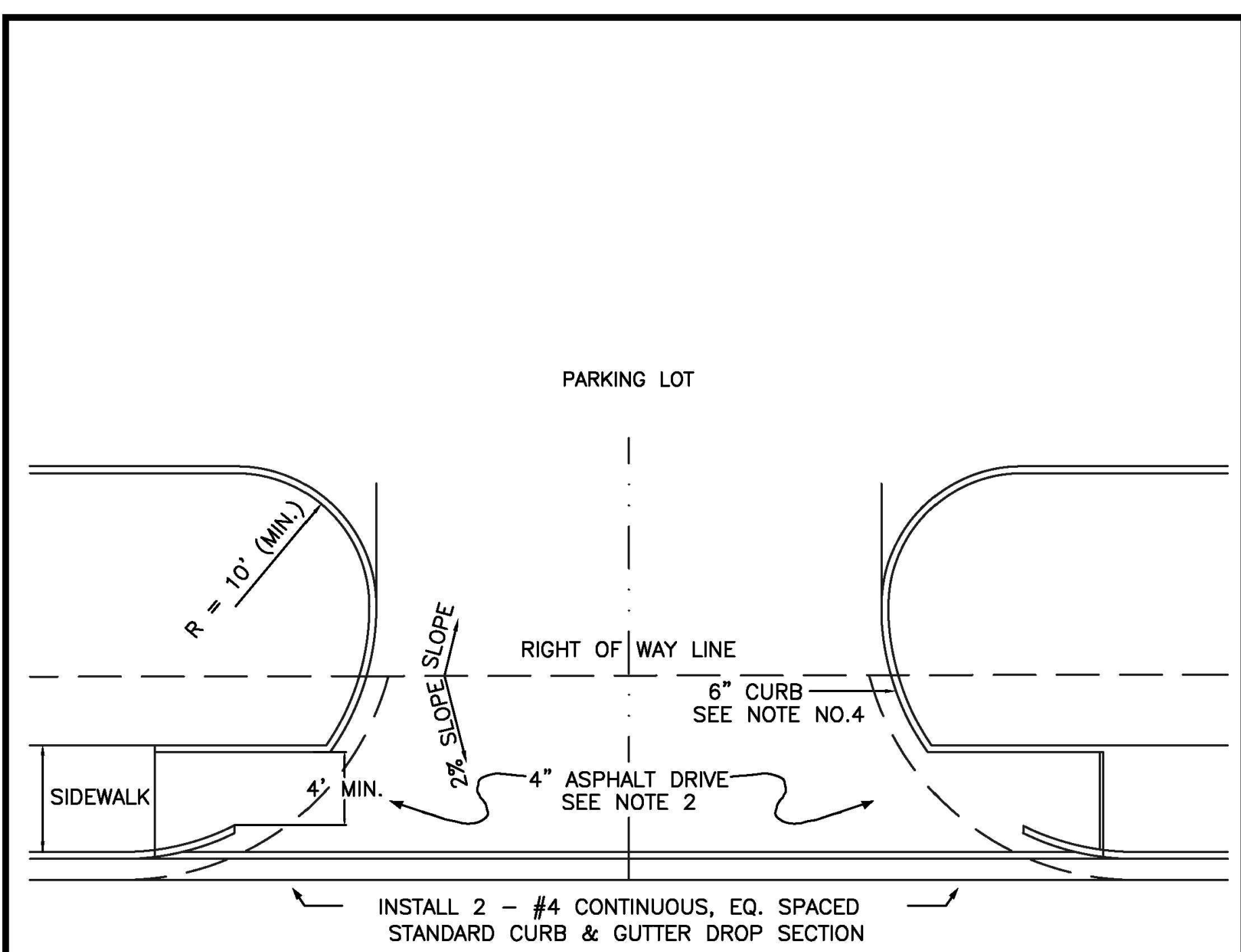
P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No.  
2190606.10

Issue Set & Date:  
**SITE DEVELOPMENT PERMIT SET**  
2/7/2024



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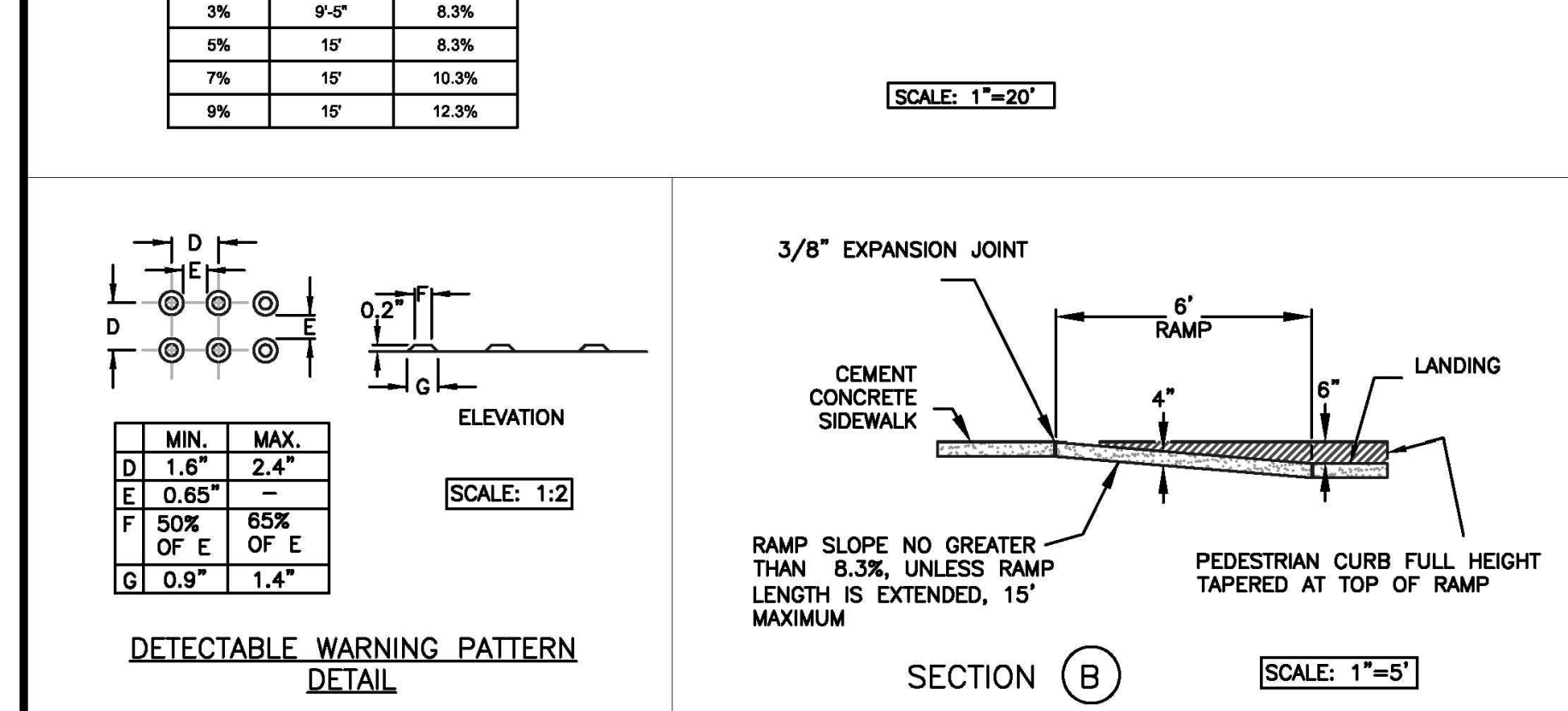
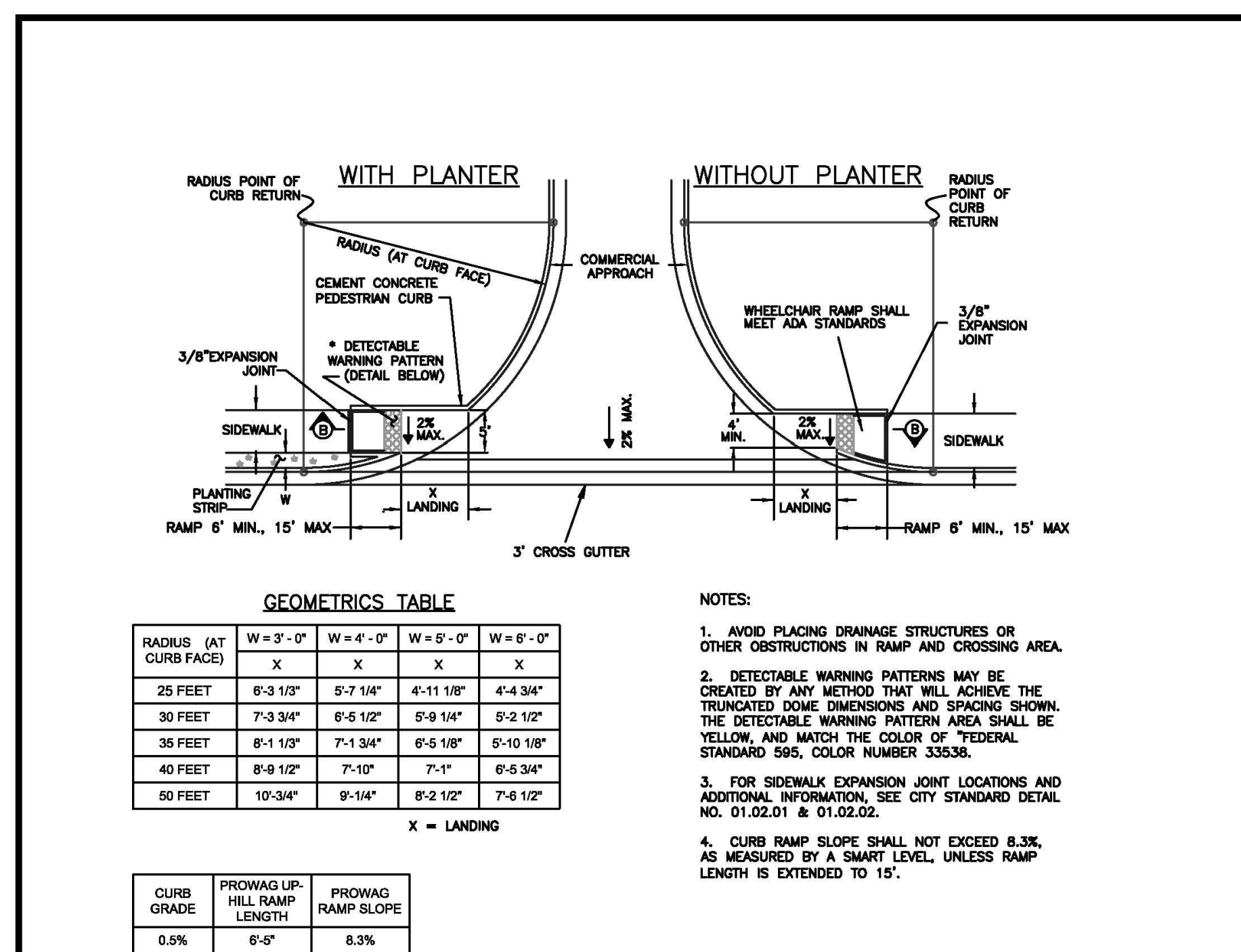


- NOTES:**
- TYPICAL COMMERCIAL APPROACHES SHALL BE 30' WIDE AND INCLUDE 35' CURB RADI. IF TRUCKS ARE EXPECTED TO USE THE APPROACH, DRIVEWAY WIDTH, CHANNELIZATION, AND CURB RADII SHALL BE BASED ON AN APPROVED TURNING MOVEMENT ANALYSIS.
  - ALL ASPHALT PAVEMENT MUST CONFORM TO CITY STANDARD NO. 01.01.01.
  - APPROACH SHALL BE ASPHALT WITH STANDARD CURB AND GUTTER PLACED ON EACH SIDE OF THE APPROACH.
  - WHEEL CHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE TO ALL APPLICABLE STANDARDS. DETECTABLE WARNING PATTERNS SHALL BE CONSTRUCTED AT A DRIVEWAY ONLY WHEN IT WILL BE SIGNALIZED. CURB RAMP SLOPE SHALL NOT EXCEED 8.3%, AS MEASURED BY A SMART LEVEL, UNLESS RAMP LENGTH IS EXTENDED TO 15'. SEE DETAIL 01.02.19 FOR ADDITIONAL ADA RAMP INFORMATION.
  - SPACING OF COMMERCIAL APPROACHES ON PRINCIPAL AND MINOR ARTERIALS SHALL BE MINIMUM 300' AND SPACING ON COLLECTORS SHALL BE MINIMUM 150', MEASURED BETWEEN THE CLOSEST EDGES OF EACH DRIVEWAY. THIS REQUIREMENT IS ALSO APPLICABLE TO THE DRIVEWAYS THAT ARE ACROSS THE STREET.
  - SPACING OF COMMERCIAL APPROACHES FROM PRINCIPAL AND MINOR ARTERIALS SHALL BE MINIMUM 300' AND SPACING FROM A COLLECTOR SHALL BE MINIMUM 150', MEASURED FROM NEAREST ROW LINE TO APPROACH PAVEMENT EDGE. THE CITY MAY BE MORE RESTRICTIVE THAN SPECIFIED HEREIN IF DEEMED NECESSARY BASED ON TRAFFIC VOLUMES, CHANNELIZATION AND SIGNALIZATION.
  - THIS COMMERCIAL APPROACH STANDARD SHALL BE USED ON ARTERIALS AND COLLECTORS WITH SPEED LIMITS OF 35 MPH OR GREATER, AND/OR WHEN TRUCK TRAFFIC WILL BE USING THE APPROACH.

**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and  
PUBLIC WORKS DEPARTMENTS

**STANDARD COMMERCIAL APPROACH**

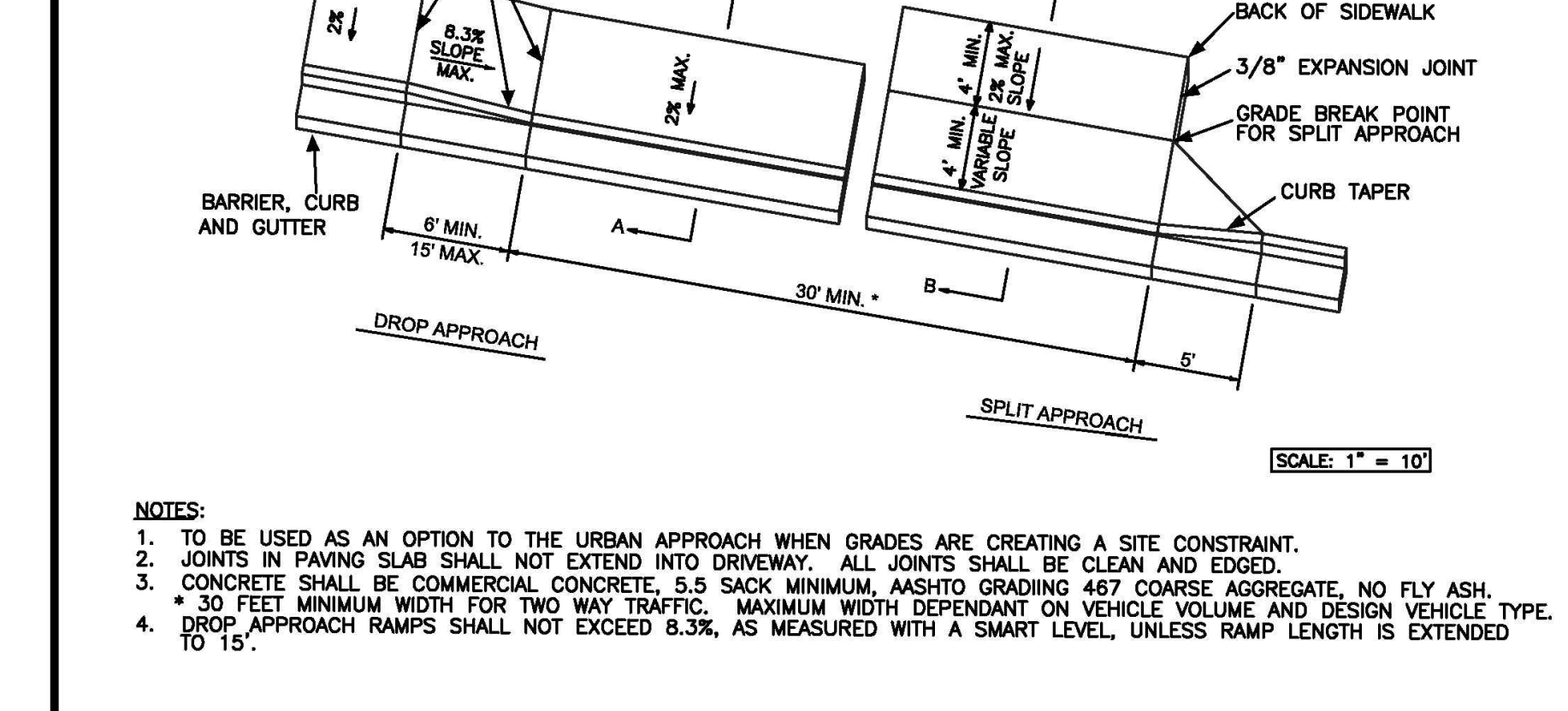
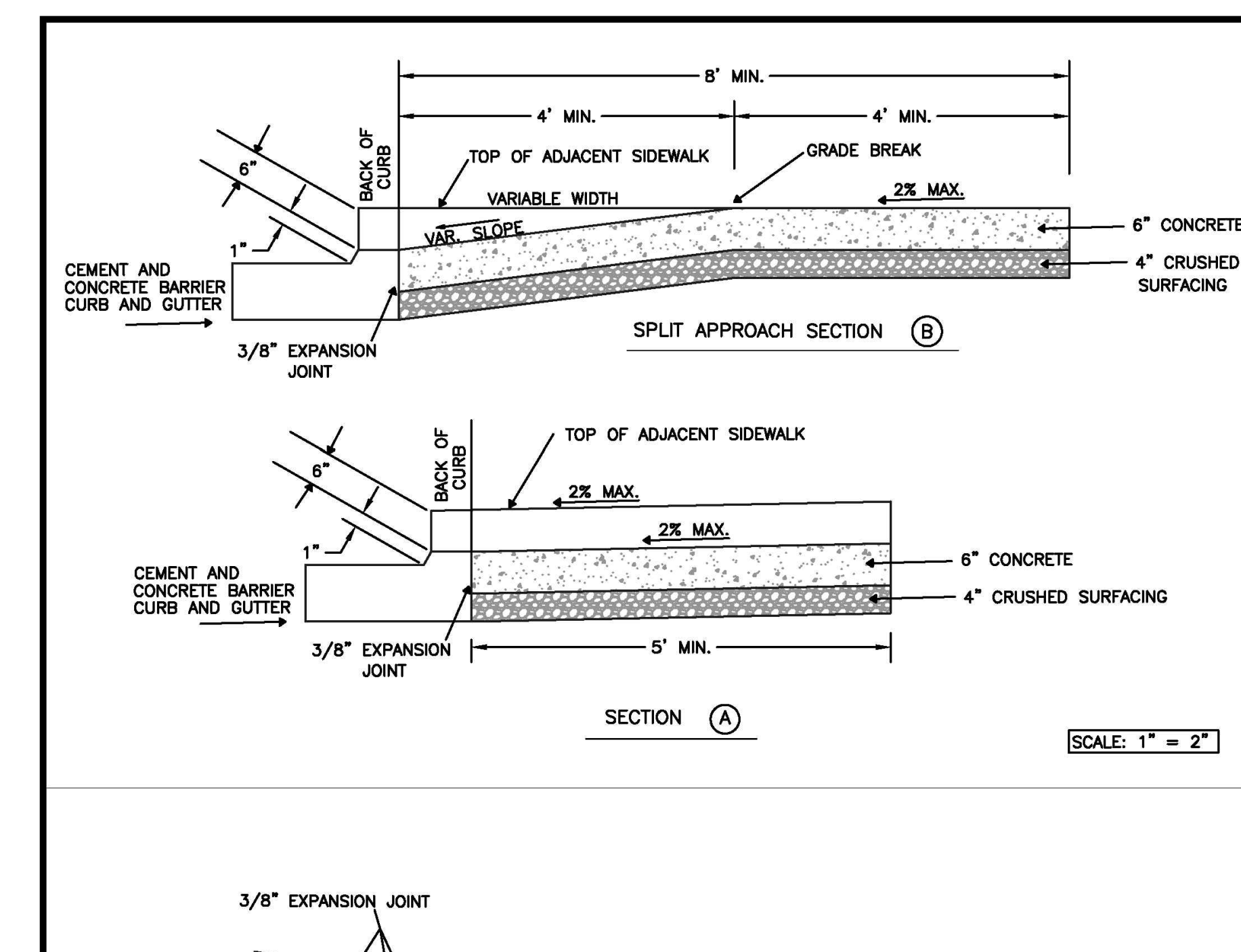
DRAWN BY JIM ERWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN	CITY STANDARD
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02.01.02.16	DATE APPROVED 07/01/2009	DATE REVISED 02/19/14	SCALE 1" = 20'	01.02.16



**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and  
PUBLIC WORKS DEPARTMENTS

**SIDEWALK RAMP WITH COMMERCIAL APPROACHES**

DRAWN BY JIM ERWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN	CITY STANDARD
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02.01.02.19	DATE APPROVED 07/01/2009	DATE REVISED 08/09/12	SCALE VARIES	01.02.19



**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and  
PUBLIC WORKS DEPARTMENTS

**URBAN COMMERCIAL APPROACH ALTERNATE 2**

DRAWN BY JIM ERWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN	CITY STANDARD
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02.01.02.18	DATE APPROVED 07/01/2009	DATE REVISED 02/11/11	SCALE VARIES	01.02.18

**1 STANDARD COMMERCIAL APPROACH**  
NOT TO SCALE

**2 SIDEWALK RAMP WITH COMMERCIAL APPROACH**  
NOT TO SCALE

**3 URBAN COMMERCIAL APPROACH 2**  
NOT TO SCALE



Sheet Title:  
**DRAINAGE NOTES AND DETAILS**

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No.  
**C3.5**  
17 of 26 Sheets

# PUYALLUP 2ND STREET APARTMENTS

A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

<p style="text-align: center;"><b>FIRE HYDRANT/FDC LOCATION/ACCESS APPROVED</b></p> <p>BY: CITY OF PUYALLUP FIRE CODE OFFICIAL</p> <p>DATE: _____</p> <p><small>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 FIRE CODE OFFICIAL.</small></p>	<p style="text-align: center;"><b>APPROVED</b></p> <p>BY: CITY OF PUYALLUP DEVELOPMENT ENGINEERING</p> <p>DATE: _____</p> <p><small>NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.</small></p>
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2215 North 30th Street, Suite 300, Tacoma, WA 98403  
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title: \_\_\_\_\_

## PUYALLUP 2ND STREET APARTMENTS

Client: SPP MANUFACTURING

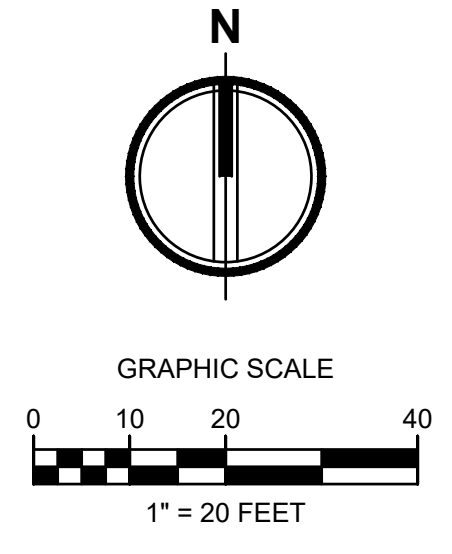
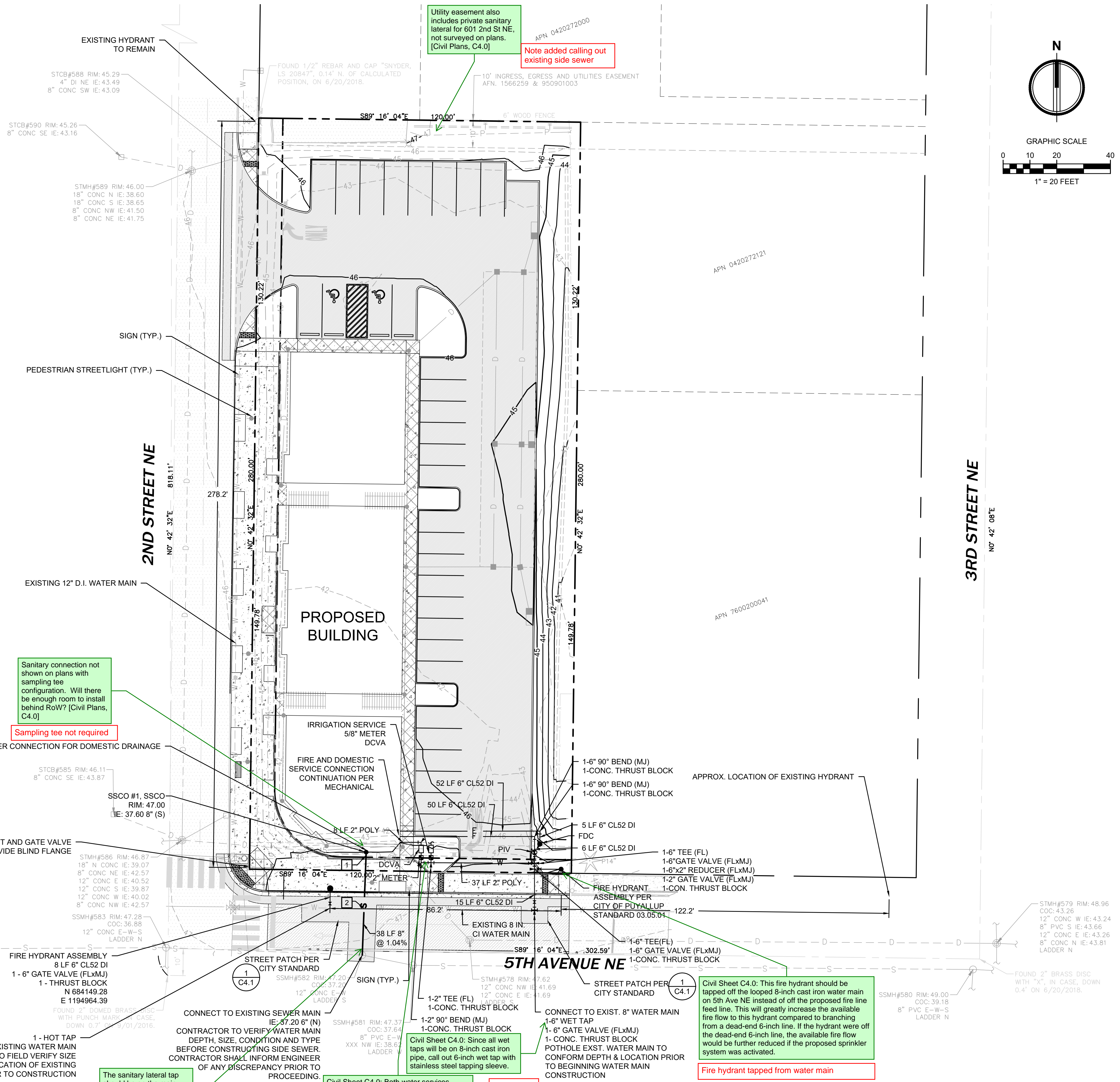
P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No. 2190606.10

Issue Set & Date: **SITE DEVELOPMENT PERMIT SET**  
2/7/2024



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**LEGEND**

•	SANITARY SEWER CLEANOUT
S	SANITARY SEWER PIPING
+	FIRE HYDRANT
+	FIRE DEPARTMENT CONNECTION (FDC)
M	METER AS NOTED
+	POST INDICATOR VALVE (PIV)
+	GATE VALVE
+	THRUST BLOCKING
+	FITTINGS AS NOTED
W	WATER PIPING

**FIRE PROTECTION NOTES**

THE FIRE PROTECTION SYSTEM INCLUDING MATERIALS, SIZING, AND CONFIGURATION IS SUBJECT TO A CONTRACTOR PROVIDED DESIGN BY A FIRE PROTECTION ENGINEER, AND AS SUCH, THE FINAL DESIGN OF THE FIRE PROTECTION SYSTEM MAY DEVIATE FROM THE SYSTEM SHOWN. THE FINAL DESIGN SHALL BE SUBMITTED TO AND APPROVED BY THE FIRE MARSHALL. CONTRACTOR'S BID SHALL REFLECT THE CONDITIONS OF THE FIRE PROTECTION ENGINEER'S DESIGN. CONTRACTOR SHALL COMPLY WITH ALL NATIONAL FIRE PROTECTION ASSOCIATION REQUIREMENTS AS SET FORTH BY "NFPA 13", ITS AMENDMENTS, AND LOCAL REQUIREMENTS, INCLUDING BUT NOT LIMITED TO ACQUISITION OF ALL PERMITS.

Sanitary connection not shown on plans with sampling tee configuration. Will there be enough room to install behind RoW? [Civil Plans, C4.0]

Sampling tee not required

APPROX. LOCATION OF EXISTING HYDRANT

Civil Sheet C4.0: This fire hydrant should be tapped off the looped 8-inch cast iron water main on 5th Ave NE instead of the proposed fire line feed line. This will greatly increase the available fire flow to this hydrant compared to branching from a dead-end 6-inch line. If the hydrant were off the dead-end 6-inch line, the available fire flow would be further reduced if the proposed sprinkler system was activated.

Fire hydrant tapped from water main

The sanitary lateral tap should be on the main and not to the manhole. [Civil Plans, C4.0]

Tap moved to main

Civil Sheet C4.0: Both water services should be tapped off the 8-inch cast iron water main on 5th Ave NE, and the meters should be placed at back of sidewalk out of a hard surface. Both backflow assemblies should be placed out of city right of way.

Water services tapped from water main

6" wet tap called out



A	_____
A	_____
A	_____
A	_____
Revisions:	_____

Sheet Title: \_\_\_\_\_

## UTILITY PLAN

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No. \_\_\_\_\_

# C4.0

# PUYALLUP 2ND STREET APARTMENTS

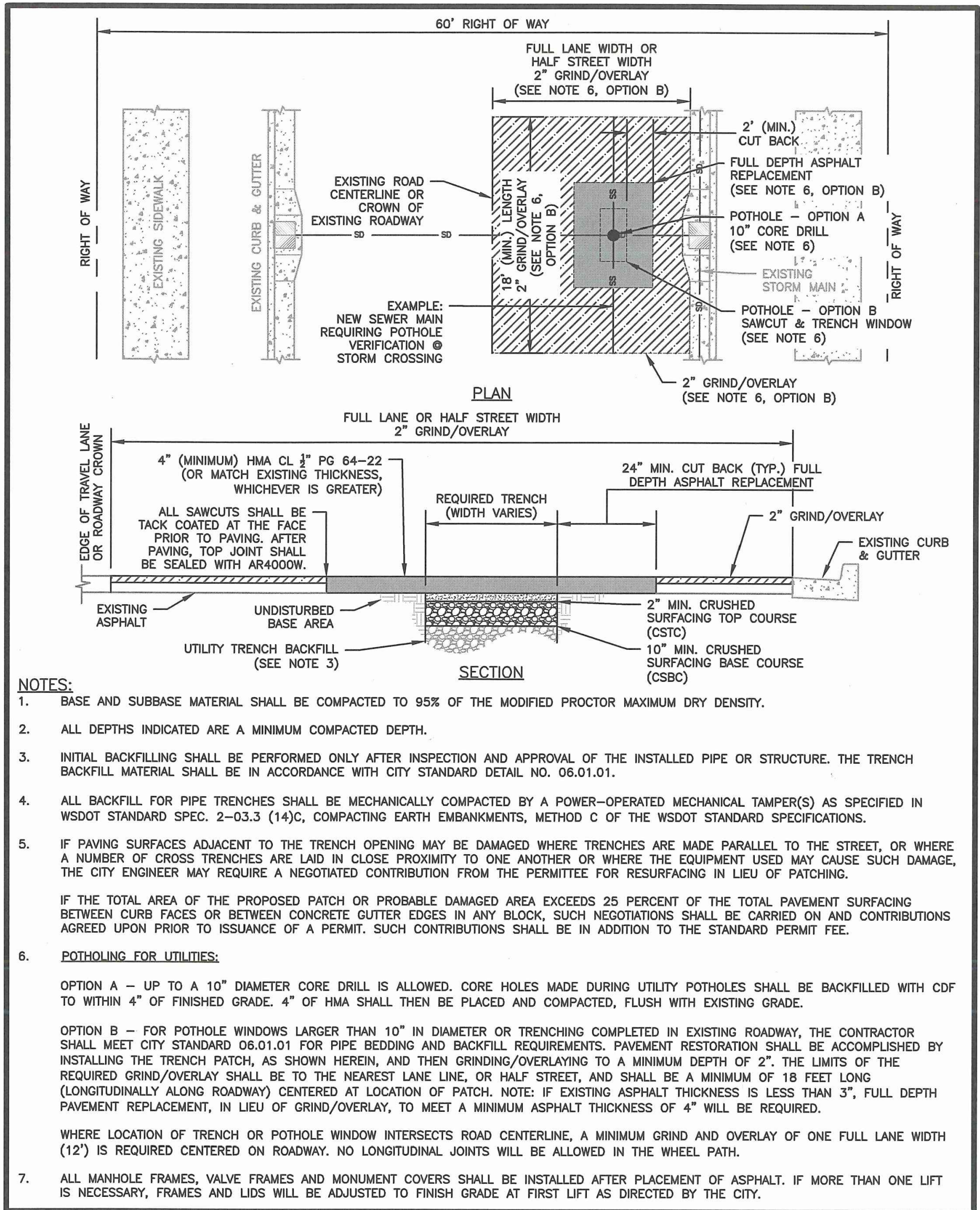
## A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

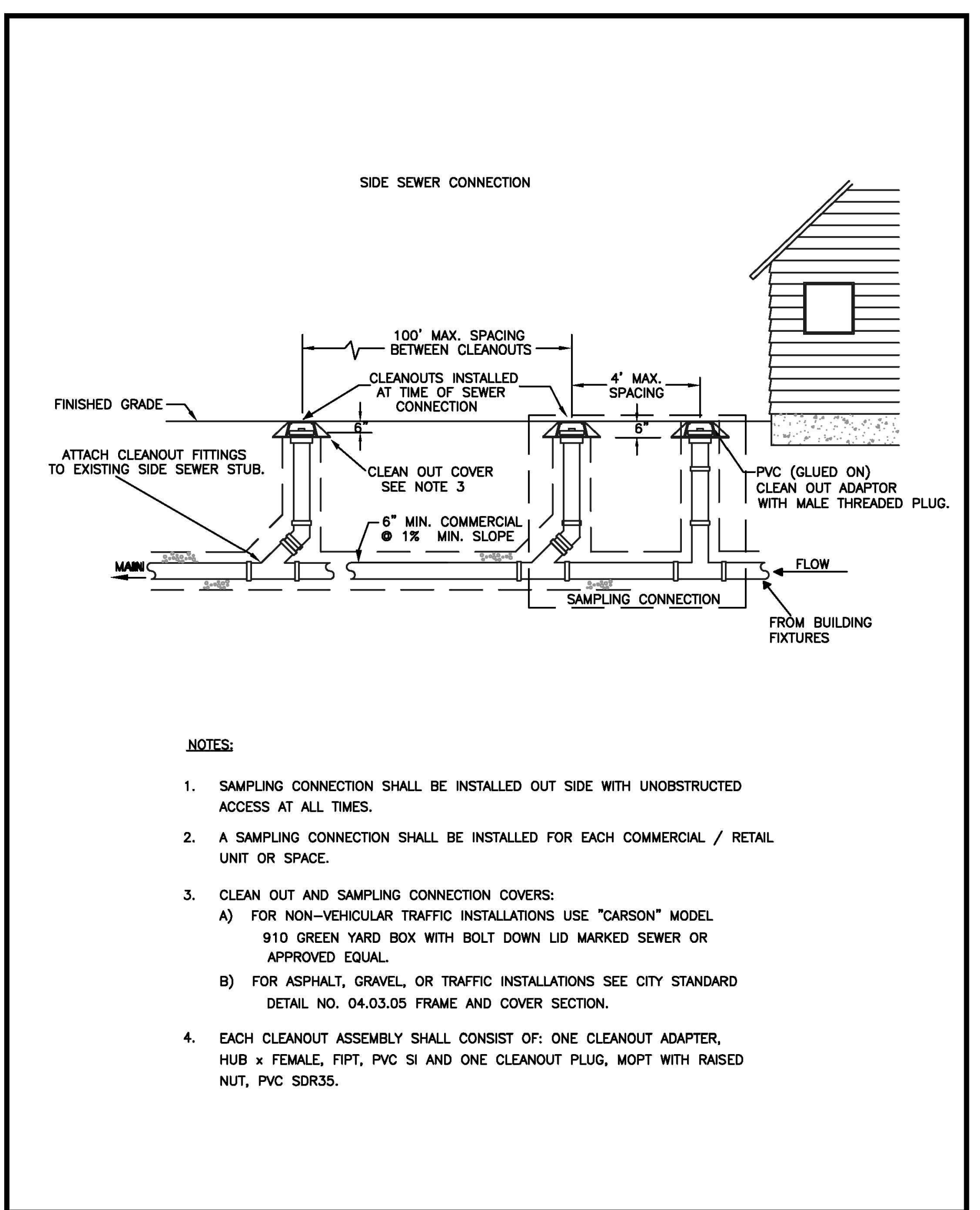
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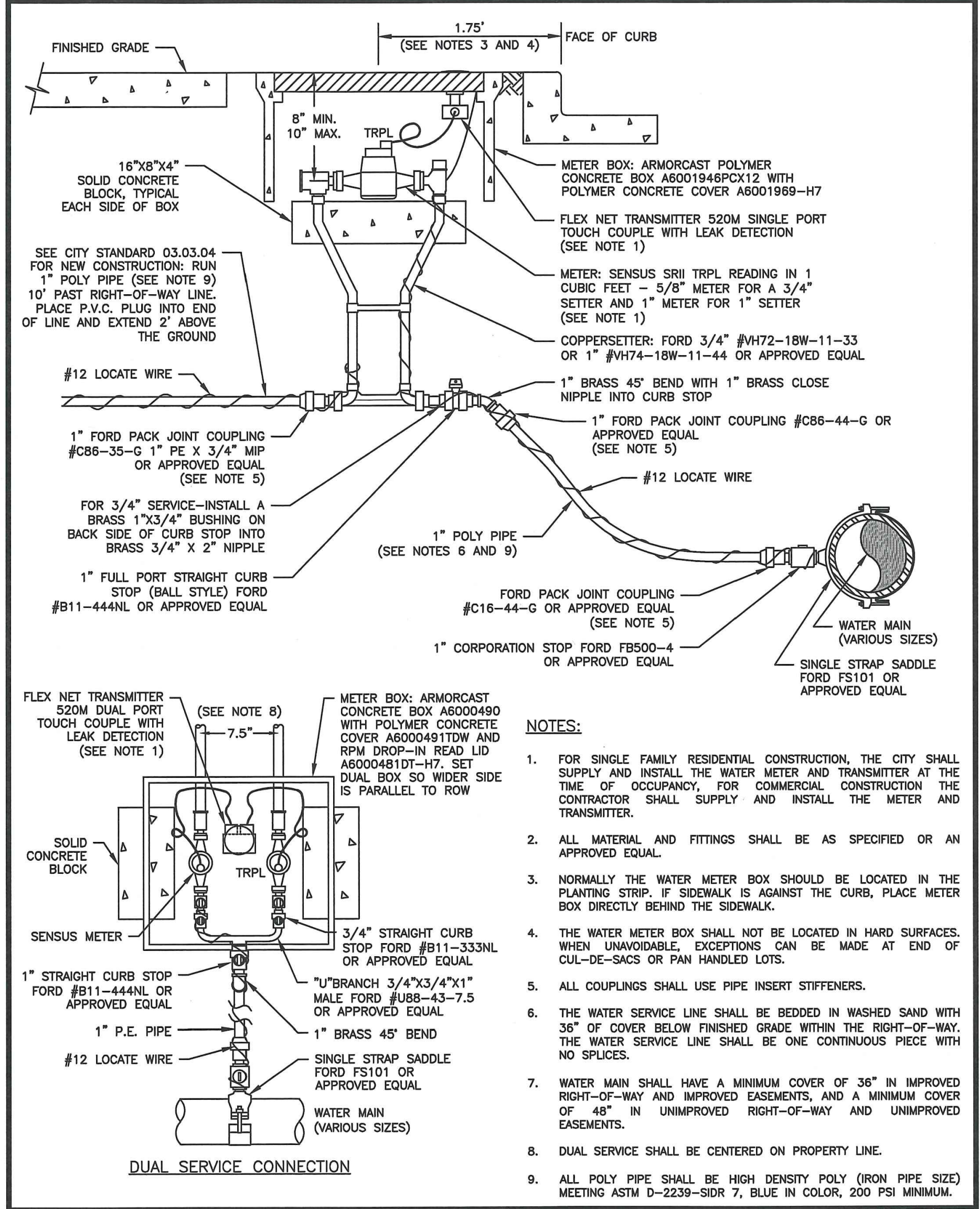
 <b>CITY OF PUYALLUP</b> OFFICE OF THE CITY ENGINEER	 <b>APPROVED FOR PUBLICATION</b> DATE SEALED: 2/15/18 FILE NAME: P:\DWG\COM\INSTR\SH\2190606-10_CIVCADL_Final Design\2190606-SH-SSWR-WATR-DETL.dwg	<b>STREET PATCH</b> <small>(NOT TO SCALE)</small> CITY STANDARD 01.01.20
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**1 STREET PATCH**  
NOT TO SCALE



 <b>CITY OF PUYALLUP</b> DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	<b>COMMERCIAL SIDE SEWER CONNECTION WITH SAMPLING CONNECTION</b>	 <b>APPROVED FOR PUBLICATION</b> DATE SEALED: 2/15/2019
<small>DRAWN BY: JIM ERWIN-SVOBODA CHECKED BY: LINDA LIAN APPROVED BY: COLLEEN HARRIS DATE APPROVED: 02/01/2019</small>	<small>REVISED BY: LINDA LIAN DATE REVISED: 02/21/11 SCALE: 1/4 CITY STANDARD: 04.03.04</small>	<small>(NOT TO SCALE) CITY STANDARD: 03.03.01 FILE NAME: P:\DWG\COM\INSTR\SH\2190606-10_CIVCADL_Final Design\2190606-SH-SSWR-WATR-DETL.dwg</small>

**2 COMMERCIAL SIDE SEWER CONNECTION WITH SAMPLING CONNECTION**  
NOT TO SCALE



 <b>CITY OF PUYALLUP</b> OFFICE OF THE CITY ENGINEER	<b>3/4" OR 1" WATER SERVICE CONNECTION</b>	 <b>APPROVED FOR PUBLICATION</b> DATE SEALED: 2/15/2019
<small>DRAWN BY: JIM ERWIN-SVOBODA CHECKED BY: LINDA LIAN APPROVED BY: COLLEEN HARRIS DATE APPROVED: 02/01/2019</small>	<small>REVISED BY: LINDA LIAN DATE REVISED: 02/21/11 SCALE: 1/4 CITY STANDARD: 04.03.04</small>	<small>(NOT TO SCALE) CITY STANDARD: 03.03.01 FILE NAME: P:\DWG\COM\INSTR\SH\2190606-10_CIVCADL_Final Design\2190606-SH-SSWR-WATR-DETL.dwg</small>

**3 3-4 INCH OR 1 INCH WATER SERVICE CONNECTION**  
NOT TO SCALE

### PUYALLUP 2ND STREET APARTMENTS

Client: SPP MANUFACTURING

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No. 2190606.10

Issue Set & Date: 2/7/2024

**SITE DEVELOPMENT PERMIT SET**



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Revisions:

Sheet Title:

### WATER AND SEWER NOTES AND DETAILS

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No.

# C4.1

19 of 26 Sheets



# PUYALLUP 2ND STREET APARTMENTS

## A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.

### CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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Project Title: \_\_\_\_\_

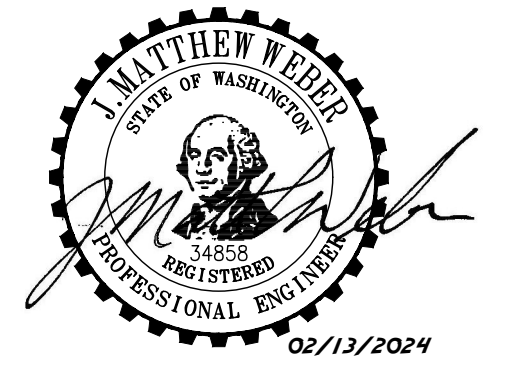
### PUYALLUP 2ND STREET APARTMENTS

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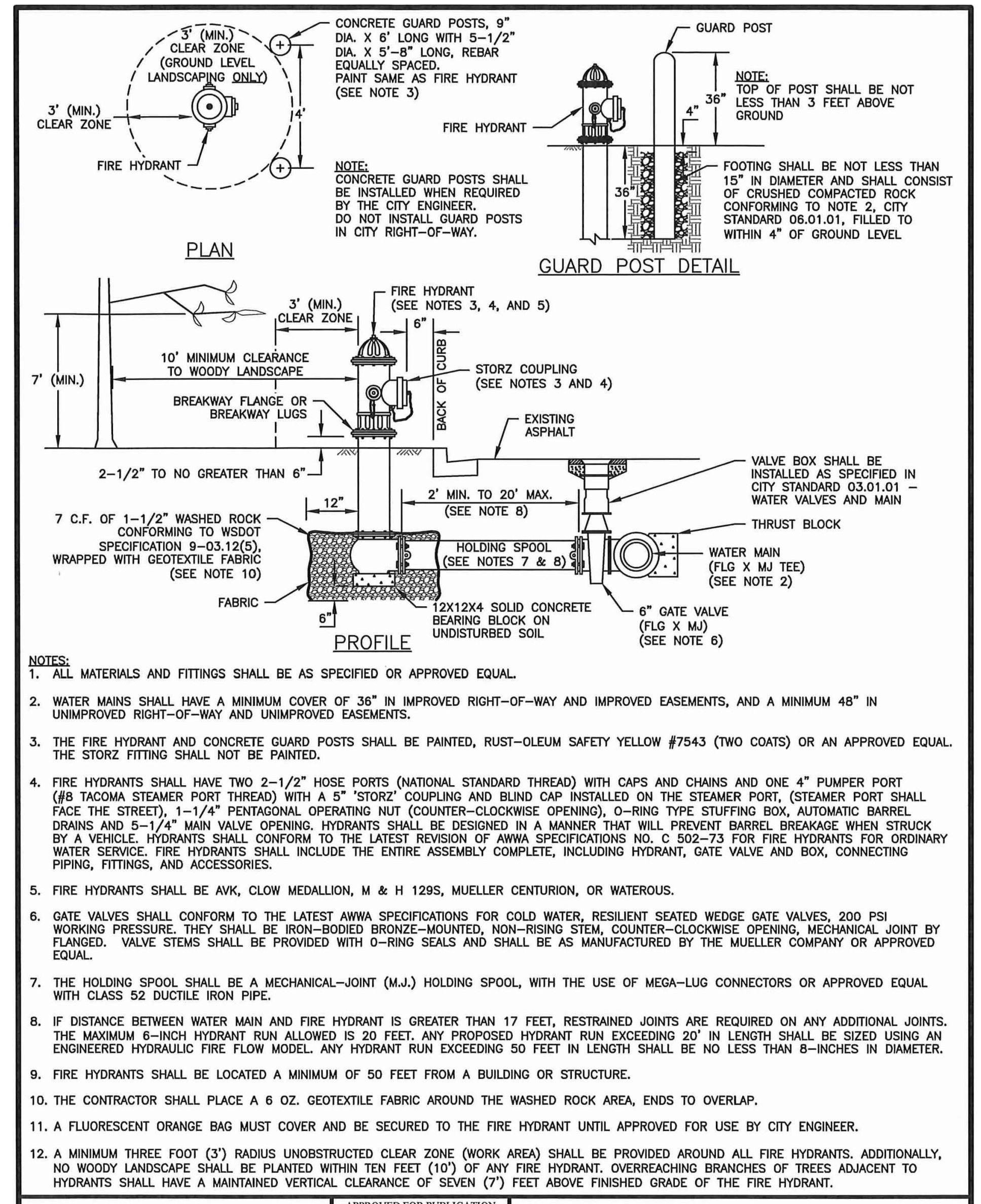
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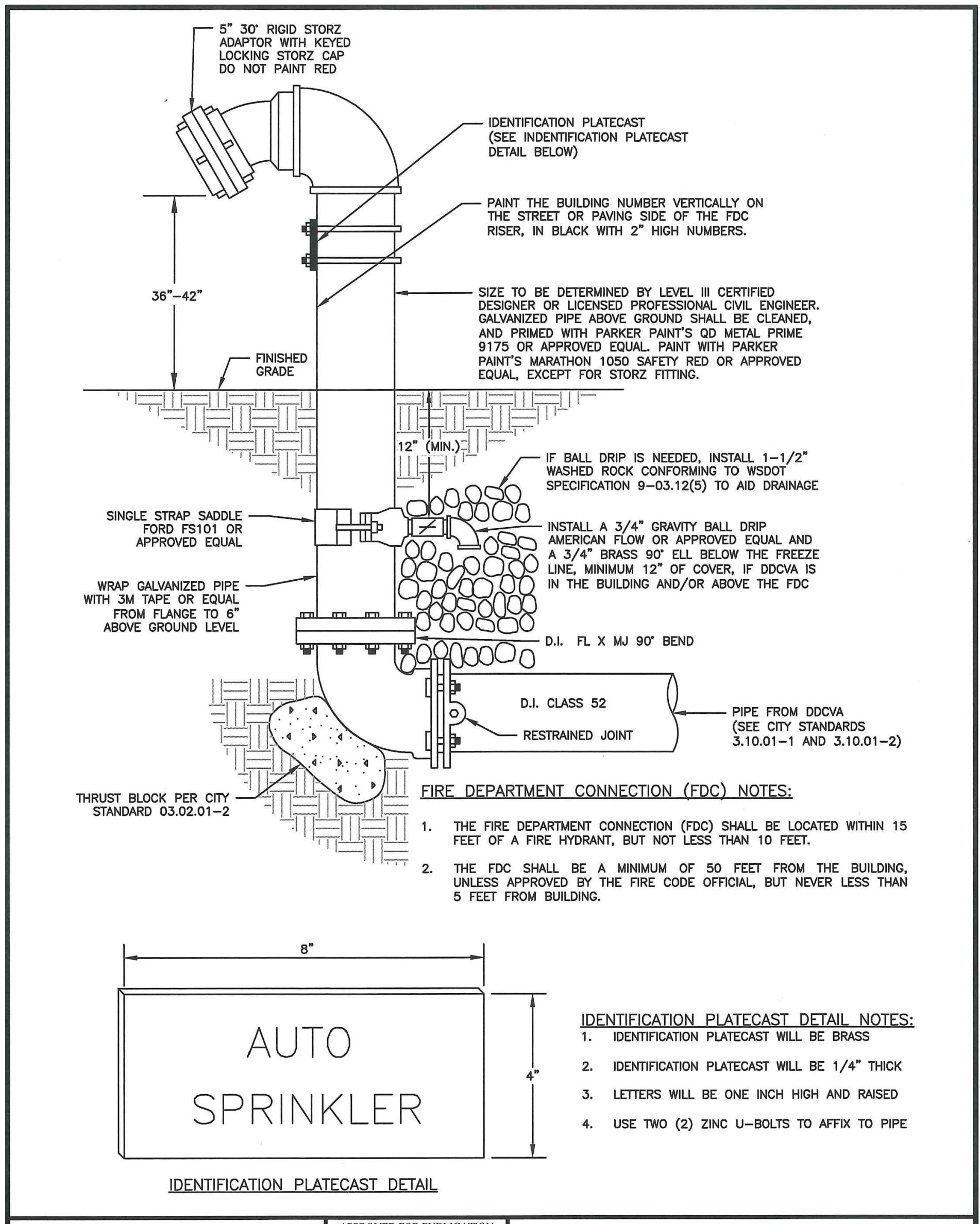




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 <b>CITY OF PUYALLUP</b> OFFICE of THE CITY ENGINEER	APPROVED FOR PUBLICATION  <b>FIRE HYDRANT ASSEMBLY</b> <small>(NOT TO SCALE)</small> CITY STANDARD <b>03.05.01</b>	DATE SEALED: 1/17/2020 <small>FILE NAME: F:\SHARED\DWG\2020\CITY ST AND ABO\2019-2020-PART 3-STANDARD DETAILS\C-03-05.01.dwg</small>
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**1 FIRE HYDRANT ASSEMBLY**  
NOT TO SCALE



 <b>CITY OF PUYALLUP</b> OFFICE of THE CITY ENGINEER	APPROVED FOR PUBLICATION  <b>FIRE DEPARTMENT CONNECTION (FDC)</b> <small>(NOT TO SCALE)</small> CITY STANDARD <b>03.10.02</b>	DATE SEALED: 2/6/2018 <small>FILE NAME: F:\SHARED\DWG\2018\CITY ST AND ABO\2018-PART 3-STANDARD DETAILS\C-03-10.02.dwg</small>
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**2 FIRE DEPARTMENT CONNECTION (FDC)**  
NOT TO SCALE

Revisions:

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Sheet Title: \_\_\_\_\_

### WATER AND SEWER NOTES AND DETAILS

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No. \_\_\_\_\_

C4.2

20 of 26 Sheets



# PUYALLUP 2ND STREET APARTMENTS

## A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

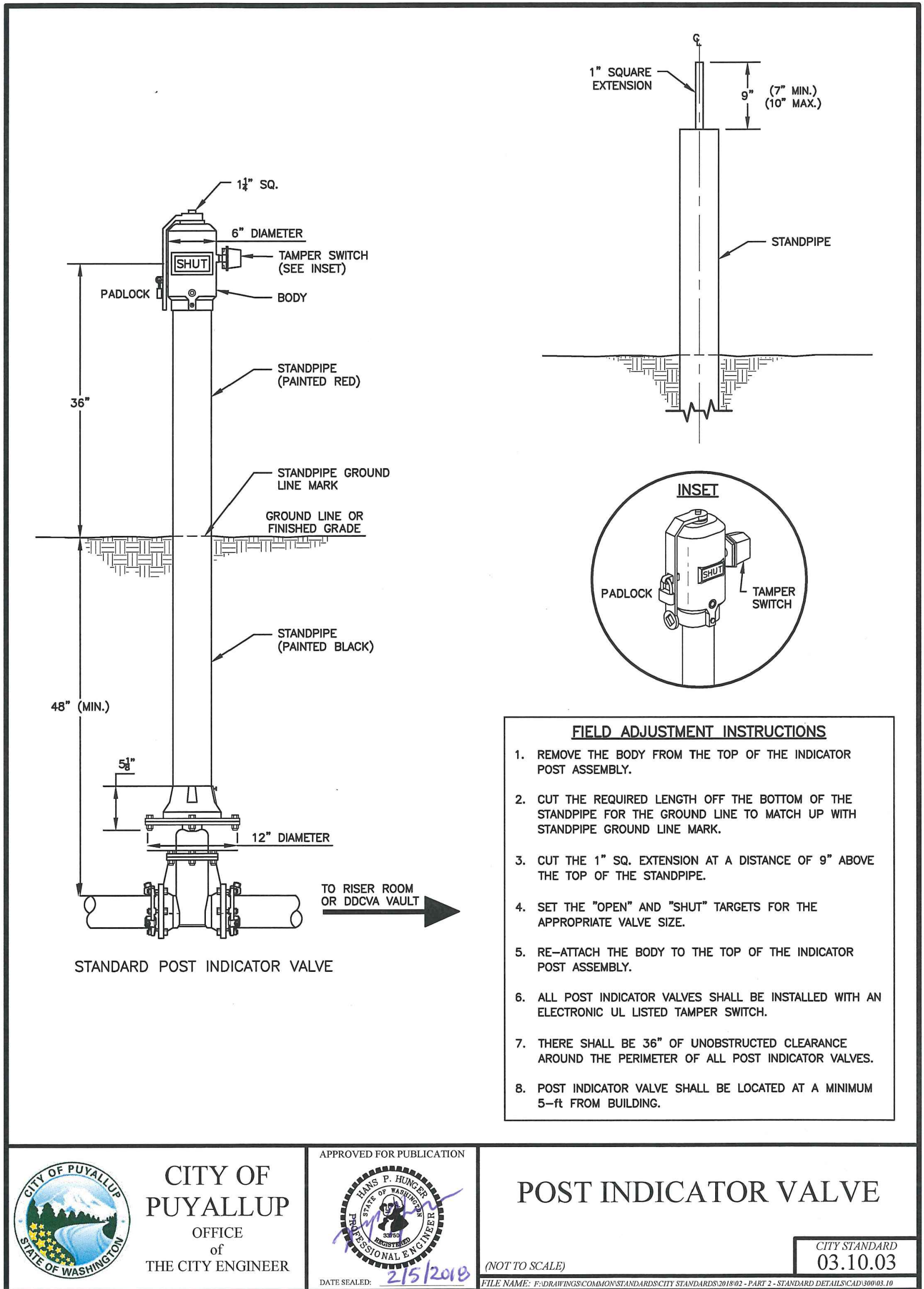
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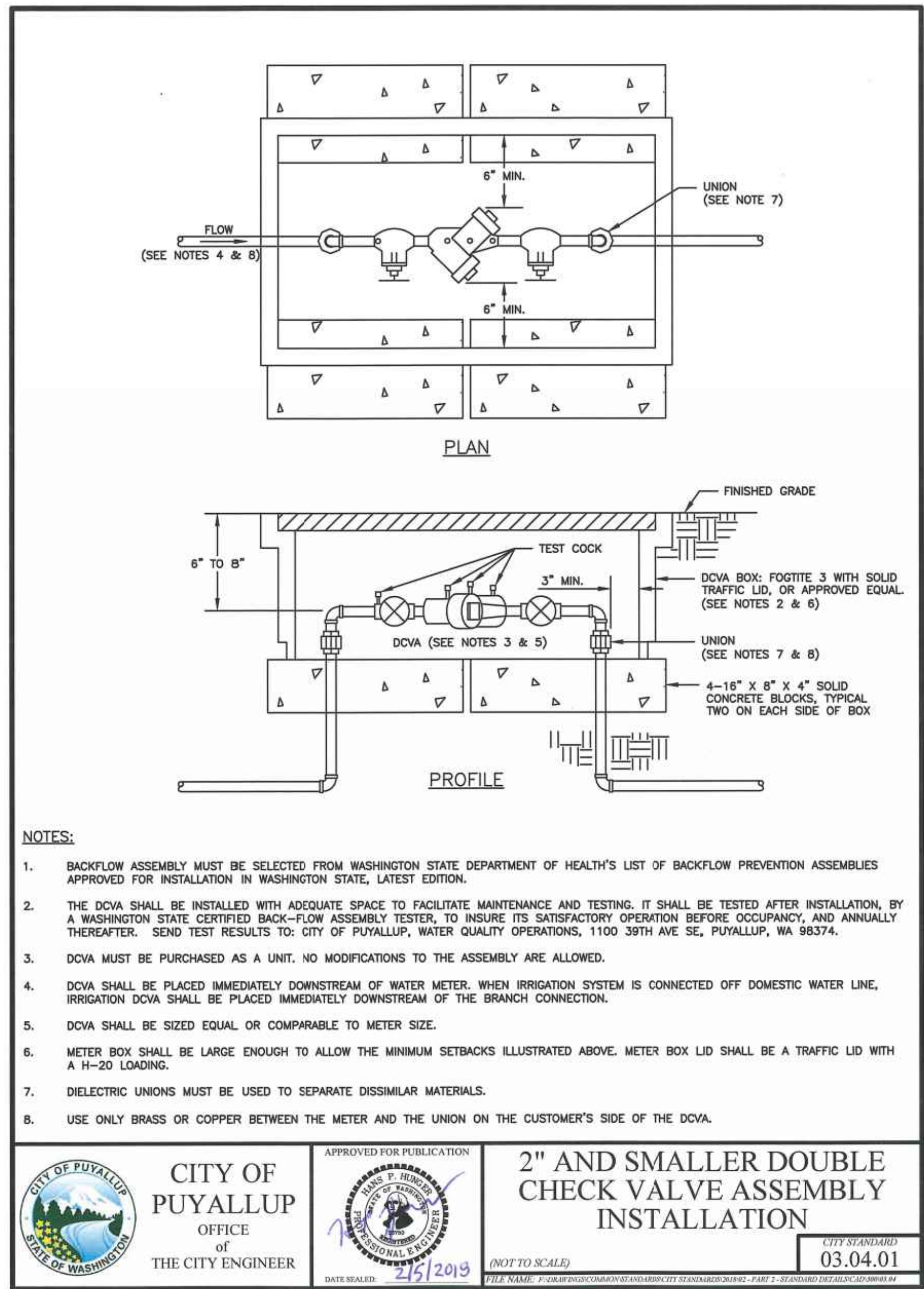
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Project Title:



**1 POST INDICATOR VALVE (PIV)**  
NOT TO SCALE



**2 2 INCH AND SMALLER DCVA**  
NOT TO SCALE

### SANITARY SEWER NOTES:

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTORS 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.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE 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.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- MINIMUM GRADE ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 2 PERCENT AND 6 INCH COMMERCIAL SIDE SEWERS SHALL BE 1 PERCENT; MAXIMUM SHALL BE 8 PERCENT. ALL SIDE SEWERS SHALL BE 6 INCHES WITHIN CITY RIGHT-OF-WAY.
- SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD NOS. 04.03.01, 04.03.02, 04.03.03 AND 04.03.04. SIDE SEWER INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WISHA).
- 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. PP SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PI 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.
- SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NO. 06.01.02.
- 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.
- 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.
- 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.
- 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.
- 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.

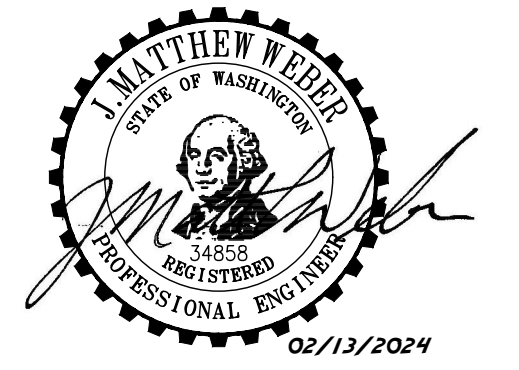
### PUYALLUP 2ND STREET APARTMENTS

Client:  
**SPP MANUFACTURING**

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No.  
2190606.10

Issue Set & Date:  
**SITE DEVELOPMENT PERMIT SET**  
2/7/2024



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Revisions:

Sheet Title:

**WATER AND SEWER NOTES AND DETAILS**

Designed by: MW  
Drawn by: MW  
Checked by: BB

Sheet No.

C4.3

21 of 26 Sheets



# PUYALLUP 2ND STREET APARTMENTS

A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title: \_\_\_\_\_

## PUYALLUP 2ND STREET APARTMENTS

Client: **SPP MANUFACTURING**

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No. **2190606.10**

Issue Set & Date: **SITE DEVELOPMENT PERMIT SET**  
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NOTE: DRAWINGS DEPICT BLOCK LOCATION, NOT SIZE. FOR SIZE SEE NOTES 3, 4, 5, AND CITY STD. 03.02.01-3

**45° BEND**  
(COLUMN C)

**90° BEND**  
(COLUMN B)

**DEAD END**  
(COLUMN A)

**OFFSET**  
(COLUMNS B TO E)

**THRU LINE CONNECTION, TEE**  
(COLUMN A)

**DIRECTION CHANGE, TEE USED AS ELBOW**  
(COLUMN B)

**THRU LINE CONNECTION, TEE**  
(COLUMN C)

**TEE**  
(COLUMN B)

**WYE**  
(COLUMN C)

**THRU LINE CONNECTION, CROSS USED AS TEE**  
(COLUMN A)

**DIRECTION CHANGE, CROSS USED AS ELBOW**  
(COLUMN B)

**UNBALANCED CROSS**  
(COLUMN A)

**PLUGGED CROSS**  
(COLUMN B)

**NOTES:**

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

A LENGTH OF 3/8" (MINIMUM - SEE TABLE BELOW) GALVANIZED CHAIN WRAPPED TIGHTLY TWO TIMES AROUND FITTING WITH A #4 BAR PLACED THROUGH THE CHAIN ENDS EMBEDDED INTO THE CONCRETE THRUST BLOCKING.

RESTRAINED JOINTS SHALL BE INSTALLED WITH ALL VERTICAL THRUST BLOCKING.

**11-1/4° TO 45° BEND**

**TABLE 1: CONCRETE BLOCKING FOR VERTICAL BENDS**

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

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

**TABLE 2: THRUST AT FITTINGS AT 200 PSI**

SIZE	TEST PRESSURE (PSI)	THRUST FITTINGS AT 200 PSI				
		TEE AND DEAD ENDS	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4"	200	3,140	4,440	2,405	1,225	615
6"	200	7,070	9,995	5,410	2,760	1,385
8"	200	12,565	17,770	9,620	4,905	2,465
10"	200	19,835	27,770	15,030	7,660	3,850
12"	200	28,275	39,985	21,640	11,030	5,545
14"	200	38,485	54,425	29,455	15,015	7,545
16"	200	50,265	71,085	38,470	19,615	9,855

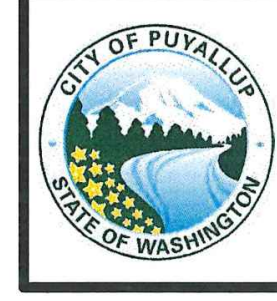
**TABLE 3: BEARING VALUE OF SOIL**

SOIL TYPE	SAFE BEARING LOAD LBS/SF
MUCK, PEAT, ETC.	0
SOFT CLAY/ALLUVIAL SOIL	1,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL CEMENTED WITH CLAY	4,000
HARD SHALE	10,000

SEE CITY STANDARDS 03.02.01-1 AND 03.02.01-2 FOR ADDITIONAL INFORMATION.


**NOTES:**

- TO DETERMINE THRUST AT PRESSURES OTHER THAN PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.  
EXAMPLE: THE THRUST ON A 12 INCH, 90° BEND AT 300 PSI.  
 $39,985 \times \frac{300}{200} = 59,978$  LBS
- TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF):  
SEE TABLE 3, BEARING VALUE OF SOIL.  
EXAMPLE: FOR SAND AND GRAVEL BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF.  
 $59,978 \text{ LBS} \div 3000 \text{ LB/SF} = 20 \text{ SF OF AREA}$
- CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE
- AREAS SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
- NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL JOINT (M.J.) PLUG OR CAP.



**CITY OF PUYALLUP**  
OFFICE of THE CITY ENGINEER

APPROVED FOR PUBLICATION



**HORIZONTAL THRUST BLOCKING**

(NOT TO SCALE)

CITY STANDARD 03.02.01-1

DATE SEALED: 2/5/2018



**CITY OF PUYALLUP**  
OFFICE of THE CITY ENGINEER

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**VERTICAL THRUST BLOCKING**

(NOT TO SCALE)

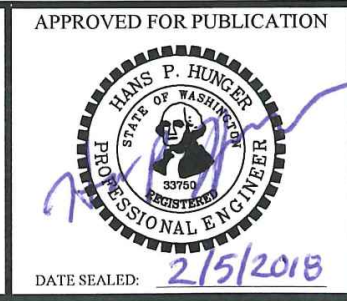
CITY STANDARD 03.02.01-2

DATE SEALED: 2/5/2018



**CITY OF PUYALLUP**  
OFFICE of THE CITY ENGINEER

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**THRUST BLOCKING TABLE**

(NOT TO SCALE)

CITY STANDARD 03.02.01-3

DATE SEALED: 2/5/2018

### 1 HORIZONTAL THRUST BLOCKING

NOT TO SCALE

### 2 VERTICAL THRUST BLOCKING

NOT TO SCALE

### 3 THRUST BLOCKING TABLE

NOT TO SCALE

Sheet Title: \_\_\_\_\_

## WATER AND SEWER NOTES AND DETAILS

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No. \_\_\_\_\_

# C4.4

22 of 26 Sheets



# PUYALLUP 2ND STREET APARTMENTS

## A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.

### CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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



Project Title:

## PUYALLUP 2ND STREET APARTMENTS

Client:  
SPP MANUFACTURING

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

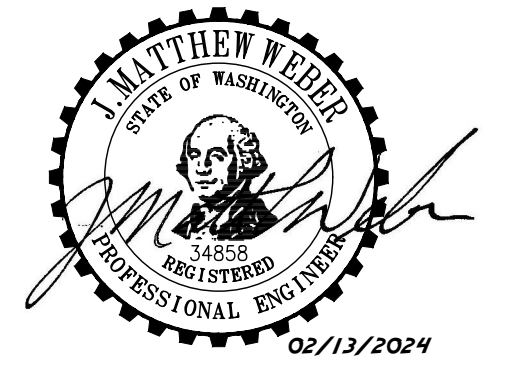
Project No.

2190606.10

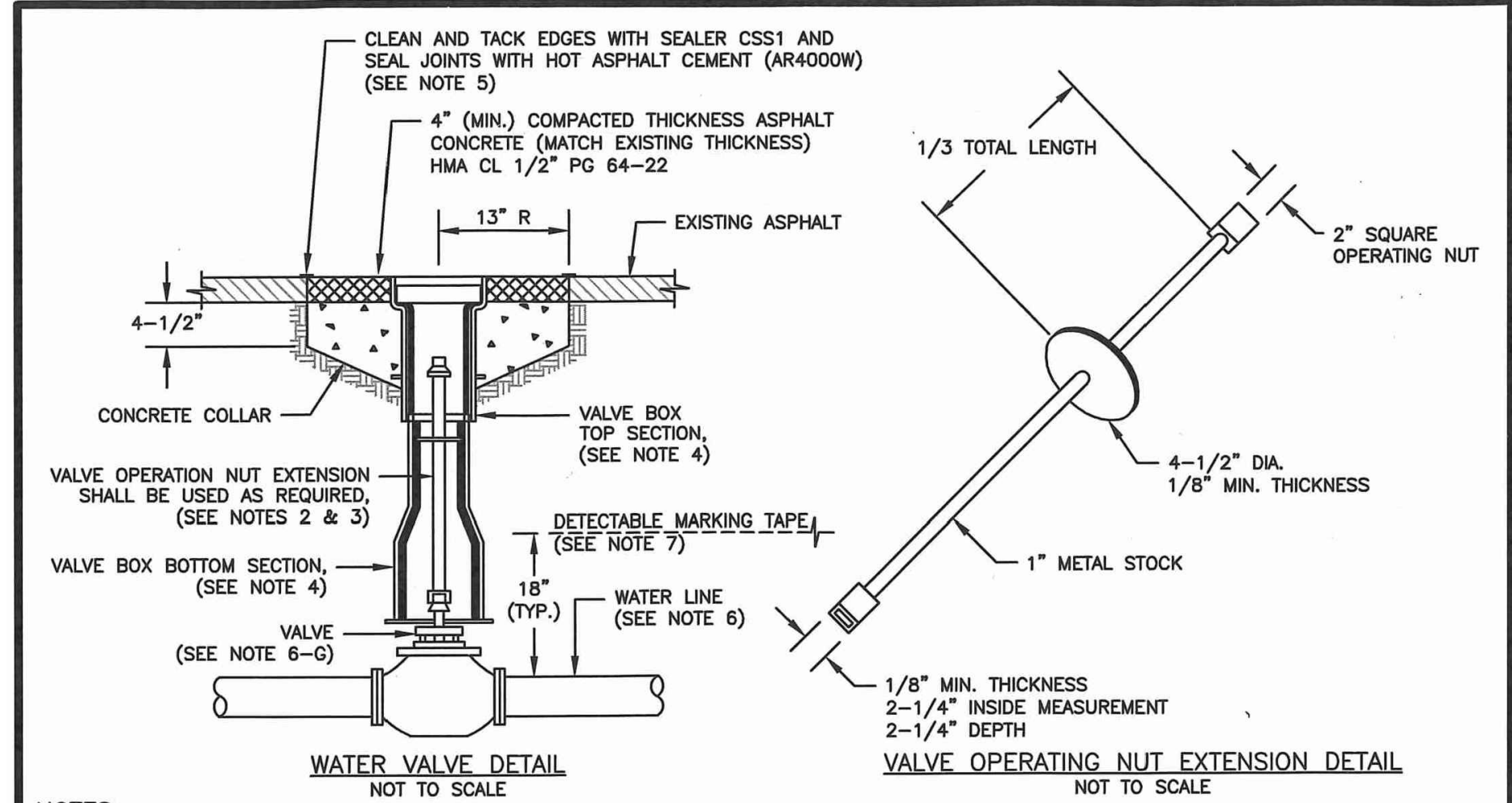
Issue Set & Date:

## SITE DEVELOPMENT PERMIT SET

2/7/2024



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- NOTES:**
- 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.
  - 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.
  - ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.
  - VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE VANRICH #940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER. VALVE BOX TOPS INSTALLED IN ARTERIAL ROADWAYS SHALL BE MANUFACTURED BY EAST JORDAN (EJ) IRONWORKS MODEL 8555 WITH LOCKING VALVE BOX COVER MODEL 6800 (PART# 06800025U) OR APPROVED EQUAL.
  - NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
  - WATER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING:
    - 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 MORTAR 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.
    - 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.
    - 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 8M 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.
    - BOLTS USED IN FLANGE INSTALLATION SETS SHALL CONFORM TO ASTM B 193, GRADE B7. NUTS SHALL COMPLY WITH ASTM A 194, GRADE 2H.
    - PROVIDE A WASHER FOR EACH NUT, WHERE NEEDED. WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.
    - ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 110 AND AWWA C 111.
    - 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.
      - RESILIENT SEATED WEDGE GATE VALVE: GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE IRON-BODIED, BRONZE MOUNTED, NON-RISING STEM, WITH TWO (2) INCH SQUARE NUT, COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT AND / OR FLANGED ENDS (6" VALVES ON FIRE HYDRANT LINES WHICH SHALL BE MECHANICAL JOINTS BY FLANGED). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
      - BUTTERFLY VALVES: BUTTERFLY VALVES CONFORMING WITH AWWA C 504, CLASS 150 AND SHALL HAVE STANDARD AWWA TWO (2) INCH SQUARE NUT.
    - DETECTABLE MARKING TAPE SHALL BE INSTALLED 18" ABOVE PIPE, BE BLUE IN COLOR, AND READ "CAUTION WATER LINE BELOW" MEETING WSDOT SPEC. 9-15.1B.

**CITY OF PUYALLUP**  
OFFICE OF THE CITY ENGINEER

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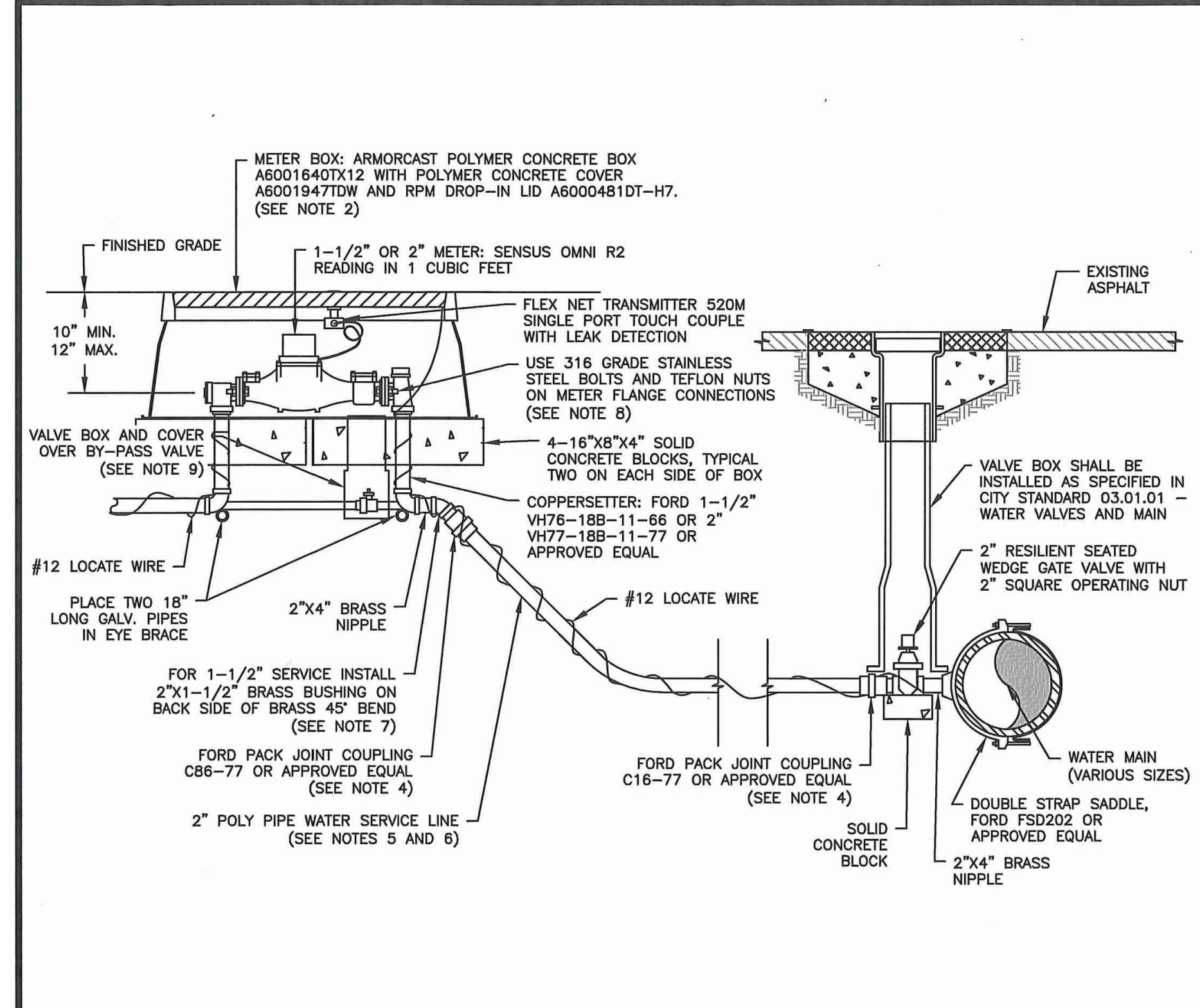
**WATER VALVES AND MAINS**

(NOT TO SCALE)

CITY STANDARD 03.01.01

## 1 WATER VALVES AND MAINS

NOT TO SCALE



- NOTES:**
- ALL MATERIALS AND FITTINGS SHALL BE AS SPECIFIED OR AN APPROVED EQUAL.
  - 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 HANDED LOTS.
  - 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.
  - ALL POLY PIPE COUPLINGS SHALL USE PIPE INSERT STIFFENERS.
  - 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.
  - ALL POLY PIPE SHALL BE HIGH DENSITY POLY (IRON PIPE SIZE) MEETING ASTM D-2239-SIDR 7, BLUE IN COLOR, 200 PSI MINIMUM.
  - 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.
  - 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.
  - 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

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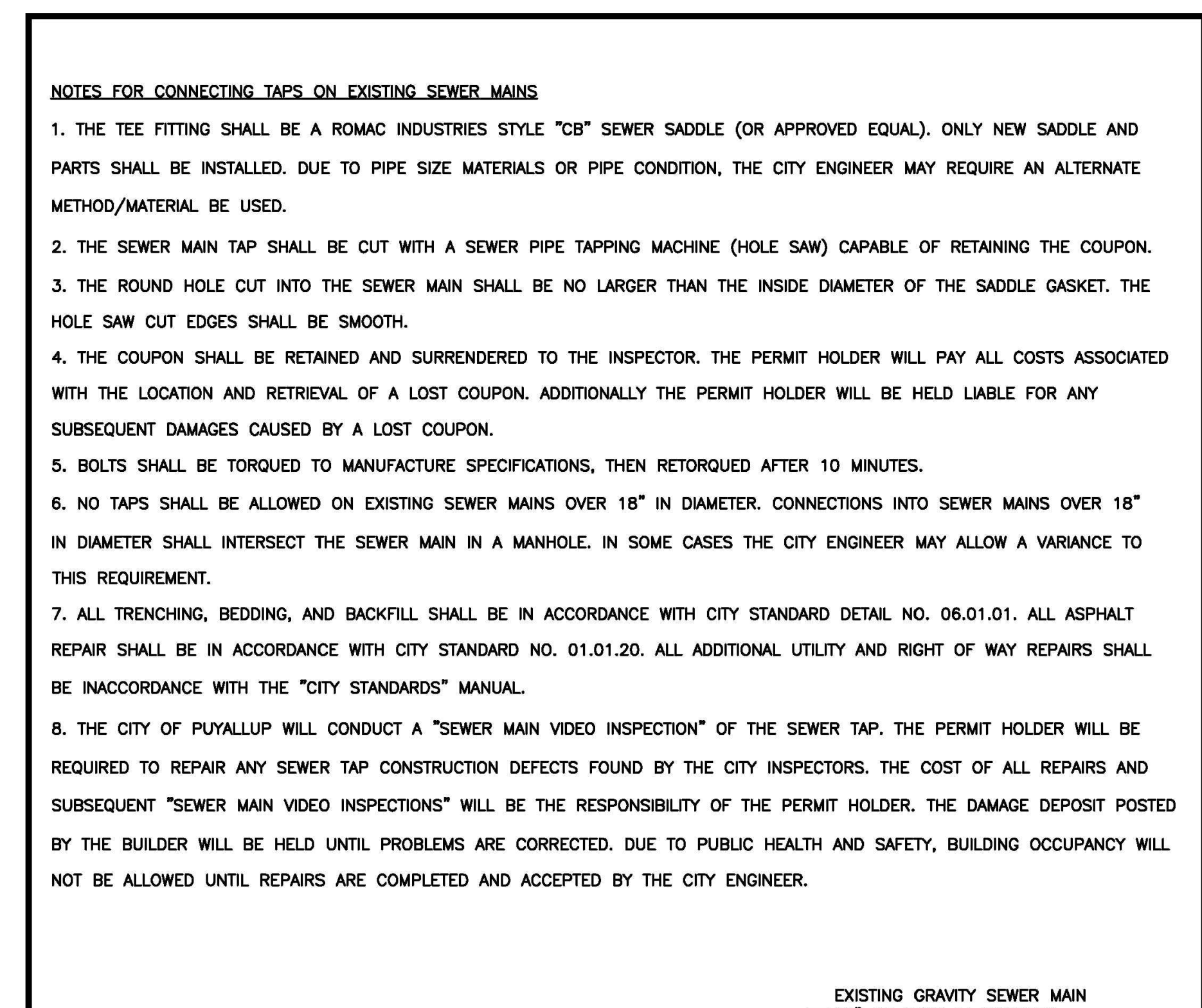
**1-1/2" AND 2" WATER SERVICE CONNECTION**

(NOT TO SCALE)

CITY STANDARD 03.03.02

## 2 1.5 INCH AND 2 INCH WATER SERVICE CONNECTION

NOT TO SCALE



- NOTES FOR CONNECTING TAPS ON EXISTING SEWER MAINS**
- THE TEE FITTING SHALL BE A ROMAC INDUSTRIES STYLE "CB" SEWER SADDLE (OR APPROVED EQUAL). ONLY NEW SADDLE AND PARTS SHALL BE INSTALLED. DUE TO PIPE SIZE MATERIALS OR PIPE CONDITION, THE CITY ENGINEER MAY REQUIRE AN ALTERNATE METHOD/MATERIAL BE USED.
  - THE SEWER MAIN TAP SHALL BE CUT WITH A SEWER PIPE TAPPING MACHINE (HOLE SAW) CAPABLE OF RETAINING THE COUPON.
  - THE ROUND HOLE CUT INTO THE SEWER MAIN SHALL BE NO LARGER THAN THE INSIDE DIAMETER OF THE SADDLE GASKET. THE HOLE SAW CUT EDGES SHALL BE SMOOTH.
  - THE COUPON SHALL BE RETAINED AND SURRENDERED TO THE INSPECTOR. THE PERMIT HOLDER WILL PAY ALL COSTS ASSOCIATED WITH THE LOCATION AND RETRIEVAL OF A LOST COUPON. ADDITIONALLY THE PERMIT HOLDER WILL BE HELD LIABLE FOR ANY SUBSEQUENT DAMAGES CAUSED BY A LOST COUPON.
  - BOLTS SHALL BE TORQUED TO MANUFACTURE SPECIFICATIONS, THEN RETORQUED AFTER 10 MINUTES.
  - NO TAPS SHALL BE ALLOWED ON EXISTING SEWER MAINS OVER 18" IN DIAMETER. CONNECTIONS INTO SEWER MAINS OVER 18" IN DIAMETER SHALL INTERSECT THE SEWER MAIN IN A MANHOLE. IN SOME CASES THE CITY ENGINEER MAY ALLOW A VARIANCE TO THIS REQUIREMENT.
  - ALL TRENCHING, BEDDING, AND BACKFILL SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL NO. 06.01.01. ALL ASPHALT REPAIR SHALL BE IN ACCORDANCE WITH CITY STANDARD NO. 01.01.20. ALL ADDITIONAL UTILITY AND RIGHT OF WAY REPAIRS SHALL BE IN ACCORDANCE WITH THE "CITY STANDARDS" MANUAL.
  - THE CITY OF PUYALLUP WILL CONDUCT A "SEWER MAIN VIDEO INSPECTION" OF THE SEWER TAP. THE PERMIT HOLDER WILL BE REQUIRED TO REPAIR ANY SEWER TAP CONSTRUCTION DEFECTS FOUND BY THE CITY INSPECTORS. THE COST OF ALL REPAIRS AND SUBSEQUENT "SEWER MAIN VIDEO INSPECTIONS" WILL BE THE RESPONSIBILITY OF THE PERMIT HOLDER. THE DAMAGE DEPOSIT POSTED BY THE BUILDER WILL BE HELD UNTIL PROBLEMS ARE CORRECTED. DUE TO PUBLIC HEALTH AND SAFETY, BUILDING OCCUPANCY WILL NOT BE ALLOWED UNTIL REPAIRS ARE COMPLETED AND ACCEPTED BY THE CITY ENGINEER.

**CITY OF PUYALLUP**  
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

**SEWER MAIN TAP**

DRAWN BY: JIM ERWIN-SVORODA  
CHECKED BY: LINDA LIAN  
APPROVED BY: COLLEEN HARRIS  
REVISION: XXXX  
FILE NAME: P:\DWG\CMM\CON\STD\CITY\200904\_SS04.0204.02.01  
DATE APPROVED: 07/01/2009  
DATE REVISED: XXXXXX  
SCALE: 1:2  
CITY STANDARD: 04.02.01

## 3 SEWER MAIN TAP

NOT TO SCALE



## WATER AND SEWER NOTES AND DETAILS

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No.

# C4.5

23 of 26 Sheets

# PUYALLUP 2ND STREET APARTMENTS

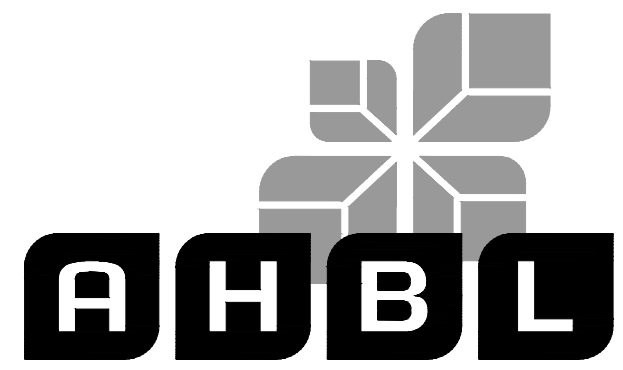
## A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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



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2215 North 30th Street, Suite 300, Tacoma, WA 98403  
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title:  
**PUYALLUP 2ND STREET APARTMENTS**

Client:  
SPP MANUFACTURING

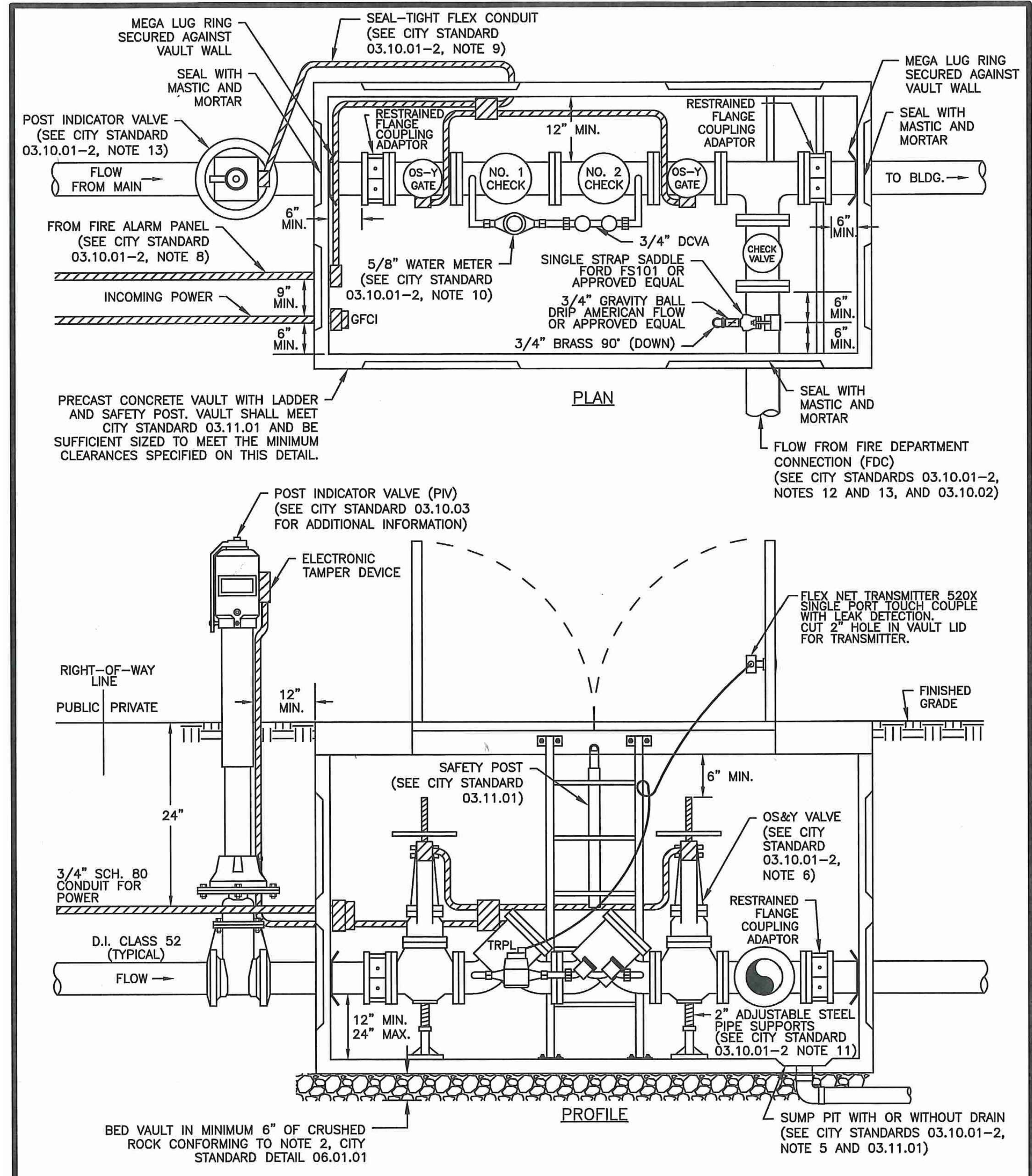
P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No.  
2190606.10

Issue Set & Date:  
**SITE DEVELOPMENT PERMIT SET**  
2/7/2024



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**INSTALLATION LOCATION NOTE:**  
DOUBLE DETECTOR-CHECK VALVE ASSEMBLY (DDCVA) MAY BE INSTALLED WITHIN A BUILDING. THE PLAN AND PROFILE VIEW OF THIS DETAIL SHOWS ALTERNATIVE EXTERIOR VAULT INSTALLATION.  
CITY STANDARD 03.10.01-2 COVERS ADDITIONAL NOTES FOR THIS DETAIL.

 <b>CITY OF PUYALLUP</b> OFFICE of THE CITY ENGINEER	 APPROVED FOR PUBLICATION <b>DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION</b> (NOT TO SCALE) CITY STANDARD <b>03.10.01-1</b>	 <b>CITY OF PUYALLUP</b> OFFICE of THE CITY ENGINEER	 APPROVED FOR PUBLICATION <b>DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION (NOTES)</b> (NOT TO SCALE) CITY STANDARD <b>03.10.01-2</b>
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**1 DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION**  
NOT TO SCALE

- NOTES FOR: DOUBLE DETECTOR CHECK VALVE ASSEMBLY (DDCVA) INSTALLATION CITY STANDARD 03.10.01-1**
- 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.
  - THE DDCVA 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.
  - DDCVA MUST BE PURCHASED AS A UNIT. NO MODIFICATIONS TO THE ASSEMBLY ARE ALLOWED.
  - DDCVA IS ALLOWED TO BE LOCATED WITHIN A BUILDING AS APPROVED BY THE FIRE CODE OFFICIAL. WHEN THE DDCVA IS LOCATED WITHIN A BUILDING, THE FIRE DEPARTMENT CONNECTION (FDC) BALL DRIP SHALL DRAIN TO THE NEAREST APPROVED ON-SITE STORM DRAINAGE STRUCTURE.
  - IN A VAULT INSTALLATION, IF VAULT CANNOT BE DRAINED TO DAYLIGHT, A 1/4 HP SUMP PUMP SHALL BE INSTALLED IN THE SUMP PIT OF THE VAULT. IT SHALL BE WIRED PER WASHINGTON STATE ELECTRICAL CODE, AND INSPECTED BY A STATE ELECTRICAL INSPECTOR. THE DISCHARGE PIPE SHALL BE CONNECTED TO THE NEAREST APPROVED ON-SITE STORM DRAINAGE STRUCTURE.
  - DDCVA OUTSIDE STEM AND YOKE (OS&Y) GATE VALVES, AND THE POST INDICATOR VALVE (PIV), SHALL HAVE SUPERVISED TAMPER SWITCHES.
  - ALL ELECTRICAL SHALL BE INSPECTED BY A WASHINGTON STATE ELECTRICAL INSPECTOR.
  - IN A VAULT INSTALLATION, RUN TWO 3/4" SCHEDULE 80 P.V.C. CONDUITS TO THE VAULT. ONE WILL BE USED FOR A GFCI PROTECTED OUTLET, AND ONE WILL BE FOR LOW VOLTAGE COMING FROM THE FIRE ALARM PANEL. INSTALL AN APPLETON FSCA OR FDCA CAST DEVICE BOX OR APPROVED EQUAL ON THE VAULT WALL AT THE CONDUIT PENETRATION.
  - IN A VAULT INSTALLATION, RUN LOW VOLTAGE WIRE INSIDE VAULT AND TO PIV THROUGH SEAL-TIGHT FLEX CONDUIT. CONDUIT SHALL BE SECURELY FASTENED PERPENDICULAR OR HORIZONTALLY TO THE WALLS OF THE VAULT.
  - WATER METER SHALL BE A SENSUS SRII TRPL READING IN 1 CUBIC FEET.
  - PIPE SUPPORTS SHALL BE RUST-PROTECTED WITH ALUMINUM PAINT.
  - THE FDC SHALL BE LOCATED WITHIN 15 FEET OF A FIRE HYDRANT, BUT NOT LESS THAN 10 FEET.
  - THE FDC AND PIV SHALL BE A MINIMUM OF 50 FEET FROM A BUILDING, UNLESS APPROVED BY THE CITY OF PUYALLUP FIRE CODE OFFICIAL, BUT NEVER LESS THAN 5 FEET FROM BUILDING.
  - A DDCVA INSTALLED MORE THAN 5 FEET ABOVE THE 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.

 <b>CITY OF PUYALLUP</b> OFFICE of THE CITY ENGINEER	 APPROVED FOR PUBLICATION <b>DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION</b> (NOT TO SCALE) CITY STANDARD <b>03.10.01-1</b>	 <b>CITY OF PUYALLUP</b> OFFICE of THE CITY ENGINEER	 APPROVED FOR PUBLICATION <b>DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION (NOTES)</b> (NOT TO SCALE) CITY STANDARD <b>03.10.01-2</b>
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**2 DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION (NOTES)**  
NOT TO SCALE

Revisions:

Sheet Title:

**WATER AND SEWER NOTES AND DETAILS**

Designed by: MW  
Drawn by: MW  
Checked by: BB

Sheet No.

C4.6

24 of 26 Sheets





# PUYALLUP 2ND STREET APARTMENTS

## A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M.

### CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

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



2215 North 30th Street, Suite 300, Tacoma, WA 98403  
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

**304 Water System Plan Notes**

The following notes shall also be shown on the plans.

**WATER SYSTEM NOTES:**

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting (253) 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.
2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.
3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards"), or as directed by Fruitland Mutual Water Company (FMWC), Valley Water (VW), or Tacoma City Water (TCW) is the purveyor.
4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.
5. Any revisions made to these plans must be reviewed and approved by the developer's engineer, the Engineering Services Staff, and the FMWC, VW or TCW when served by that purveyor, prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.
6. The contractor shall have all utilities verified on the ground prior to any construction. Call (811) at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.
7. Any structure and/or obstruction which requires removal or relocation relating to this project shall be done so at the developer's expense.
8. Bacteriological (Coliform and Iron Bacteria) test samples will be taken by the City (or FMWC, VW or TCW when served by that purveyor) and paid for by the contractor, except for Capital Improvement Projects (CIP) which shall be paid for by the City.
9. Water mains shall have a minimum cover of 36 inches from paved final grade in improved right-of-way and improved easements, and a minimum of 48 inches in unimproved right-of-way and unimproved easements.
10. Pipe for water mains shall be ductile iron conforming to Section 7-09 of the Standard Specifications, Class 52 with tyton or approved equal joints. Pipe shall be cement lined in accordance with A.S.A. Specification A 21.4-1964.
11. Connections to existing water mains typically shall be wet taps through a tapping tee and tapping valve and shall be made by a city approved contractor. The tapping sleeve shall be Romac SST all stainless steel tapping sleeve or approved equal. A two-piece epoxy coated or ductile iron tapping sleeve may be used on ductile iron pipe, when the tap is smaller than the water main size i.e. 6-inch tap on 8-inch pipe. The City (or FMWC, VW or TCW when served by that purveyor) shall approve the time and location for these connections.
12. All water mains and appurtenances shall be hydrostatically tested at 200 psi in accordance with Standard Specification 7-09.3(23). Pressure testing shall not be performed until satisfactory purity samples have been received, except when new water mains are installed independently from the water system piping.
13. Fire hydrants shall be installed in accordance with City Standard Detail 03.05.01 and as directed by the City of Puyallup Fire Code Official.
14. Valve marker posts shall be installed where valve boxes are hidden from view or in unpaired areas. The installation shall be in accordance with City Standard Detail 03.01.02.
15. Resilient seated wedge gate valves shall be used for 10-inch mains and smaller. Butterfly valves shall be used for mains greater than 10 inches.
16. Pipe fitting for water mains shall be ductile iron and shall be mechanical joint conforming to AWWA Specification C111-72.
17. Water main pipe and service connections shall be a minimum of 10 feet away from building foundations and/or roof lines.
18. Where a water main crosses the Northwest Gas pipeline, the water line shall be cased with PVC pipe a minimum of 10 feet beyond each side of the gas line easement. Contact Williams Northwest Pipeline before the crossing is made.
19. Trenching, bedding, and backfill for water mains shall be installed in accordance with City Standard Detail 06.01.01.
20. All commercial and industrial developments, irrigation systems, and multi-family water service connections shall be protected by a double check valve assembly or a reduced pressure backflow assembly as directed by the City (or FMWC, VW or TCW when served by that purveyor) conforming to City Standard Details 03.04.01, 03.04.02, and 03.04.03.
21. Any lead joint fitting disturbed during construction shall be replaced with a mechanical joint fitting at the contractor's expense.
22. When hydraulic fire flow modeling is required for a project, the City will issue a permit. The hydraulic modeling criteria is based on the projected 2030 water demand, while maintaining a minimum system pressure of 20 pounds per square inch and a maximum velocity of 10 feet per second.

23. When using a fire hydrant for non-firefighting purposes, a city hydrant meter must be used. Coordinate the acquisition of the hydrant meter with the City's Utility Billing Division at Puyallup City Hall. A city approved backflow protection assembly shall be installed by the person requesting use of a fire hydrant. The assembly shall be accompanied by a current backflow assembly test report. The test report shall be available at the site for the duration of the hydrant use.
24. Should a break occur on any City water main, the Contractor shall follow the City's adopted "Water Main Break Procedure" issued to them at the Pre-Construction Meeting and notify those connected to the system in the impacted area as outlined in the Procedure.
25. Water Main Repairs (References: AWWA C651-14 and WSDOT Standard Specification Section 7-09)

(Note: A planned water main repair shall be approved by the City Inspector and/or Water Division Supervisor prior to commencing work.)

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

**26. New Water Main Installation:**

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

**65% Calcium Hypochlorite Addition per Pipe Section**

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

- b. New water mains shall be filled using an approved backflow prevention assembly. The water main shall be filled from the lower elevation end so that as the water main is filled, the chlorine 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 water 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.



**1 WATER SYSTEM NOTES**  
NOT TO SCALE

Project Title:

**PUYALLUP 2ND STREET APARTMENTS**

Client:  
SPP MANUFACTURING

P.O. BOX 64160  
TACOMA, WA 98464  
DON HUBER

Project No.

2190606.10

Issue Set & Date:

**SITE DEVELOPMENT PERMIT SET**

2/7/2024



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Revisions:

Sheet Title:

**WATER AND SEWER NOTES AND DETAILS**

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No.

**C4.7**  
25 of 26 Sheets

# PUYALLUP 2ND STREET APARTMENTS

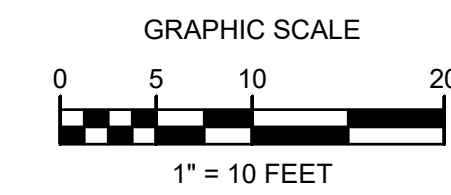
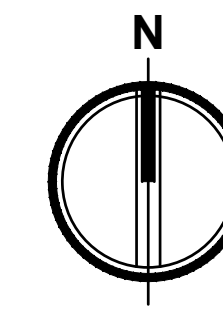
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CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

APPROVED

BY CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

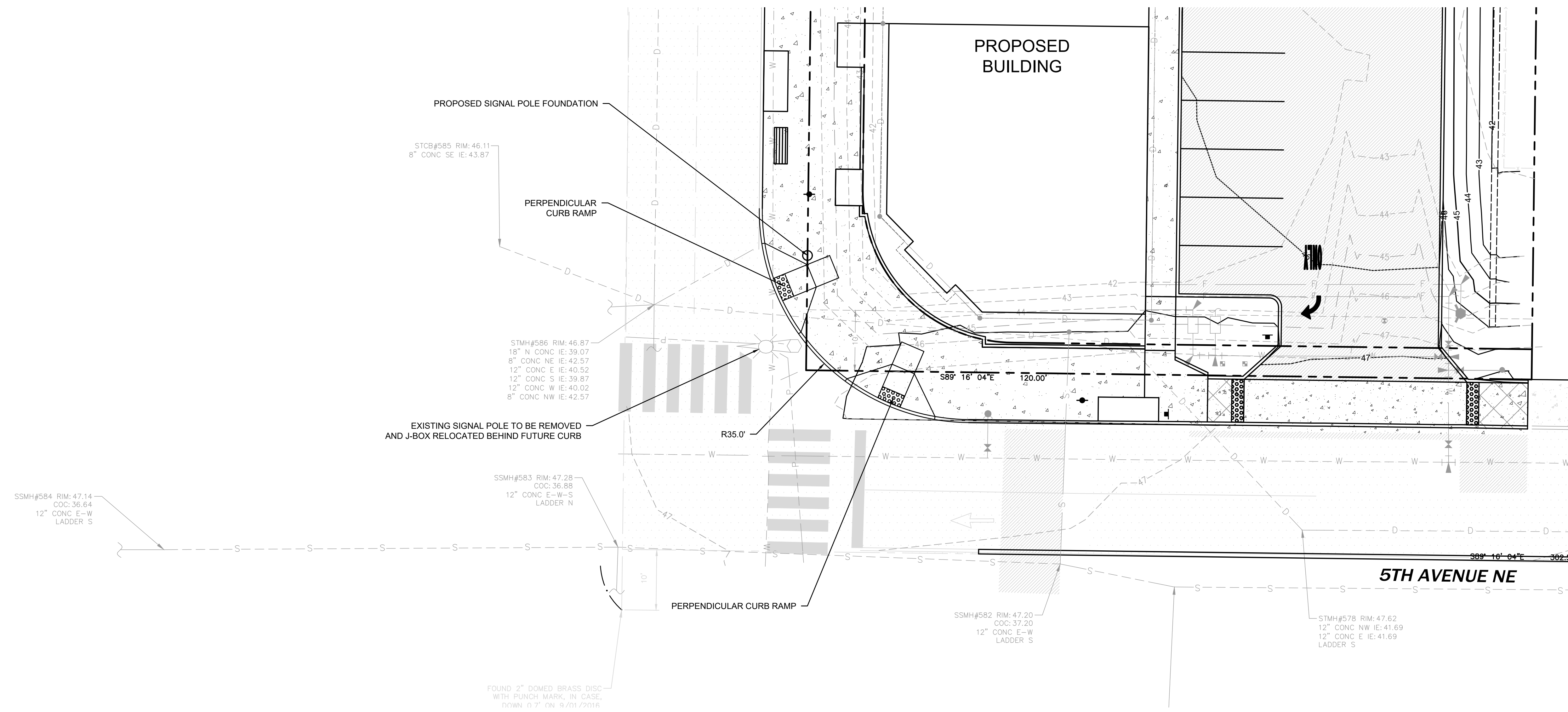
DATE

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Project Title:

**PUYALLUP 2ND STREET APARTMENTS**

Client:  
SPP MANUFACTURING

P.O. BOX 64160  
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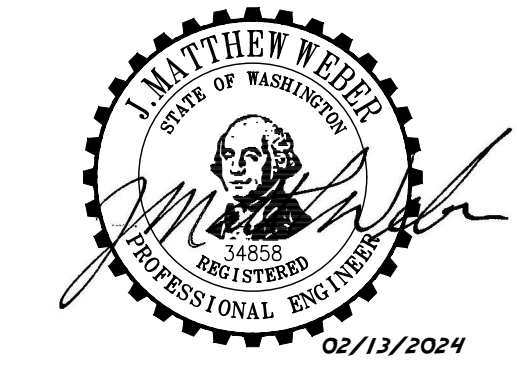
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2/7/2024



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Revisions:

Sheet Title:

**FUTURE CONCEPTUAL INTERSECTION DESIGN**

Designed by: MW    Drawn by: MW    Checked by: BB

Sheet No.

**C5.0**

26 of 26 Sheets

