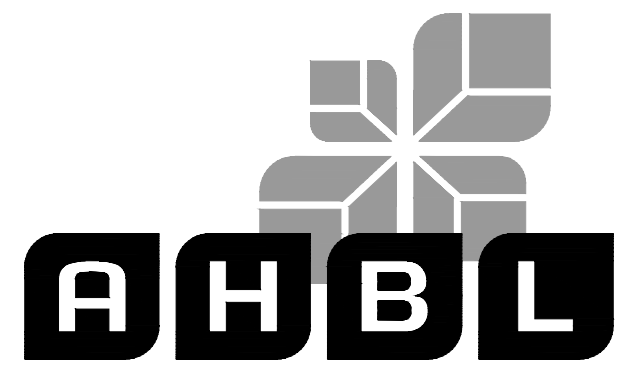


PUYALLUP 2ND STREET APARTMENTS

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: 11/20/2024

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



TACOMA · SEATTLE · SPOKANE · TRI-CITIES
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

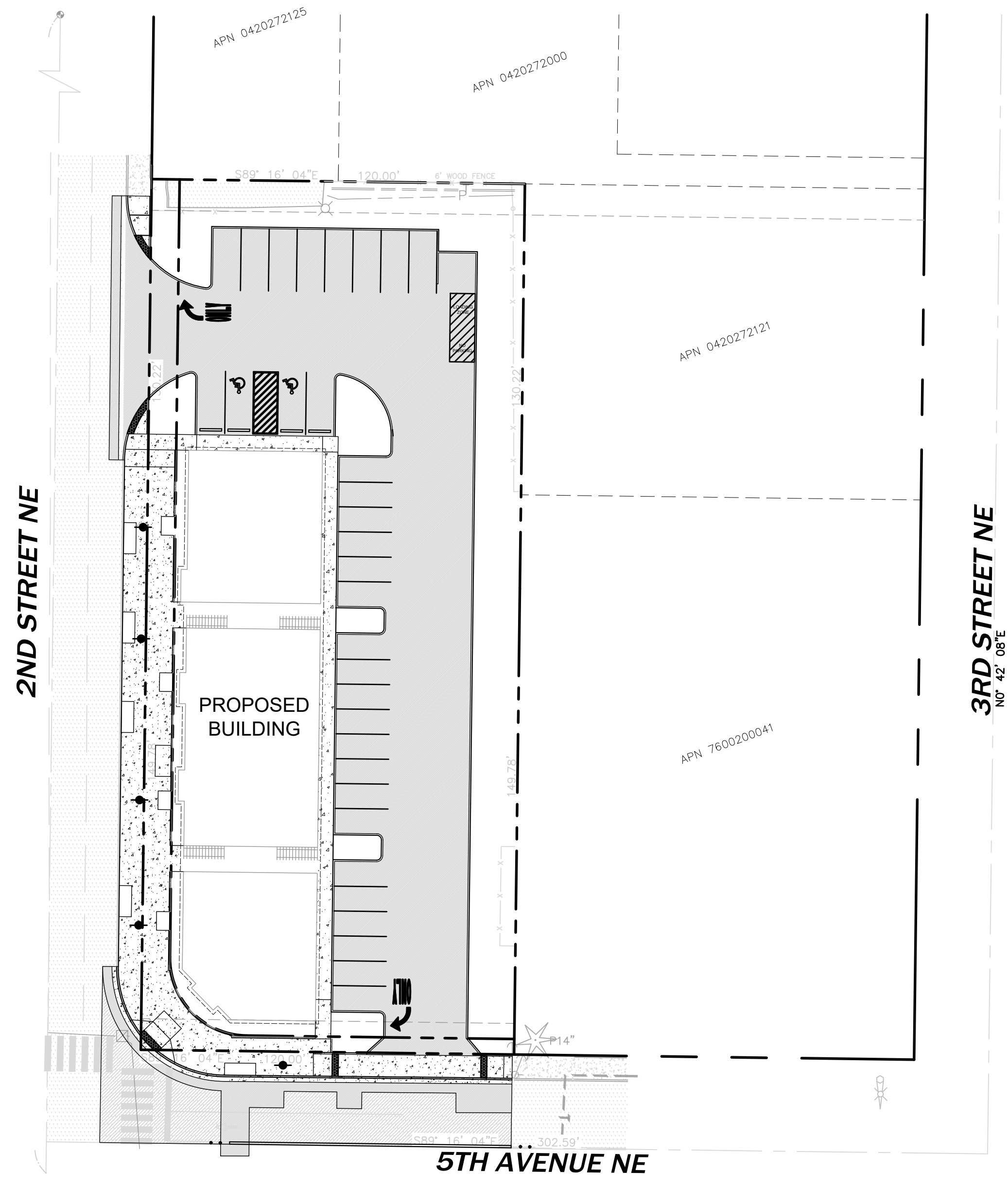
Issue Set & Date:
SITE DEVELOPMENT PERMIT SET
10/8/2024



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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

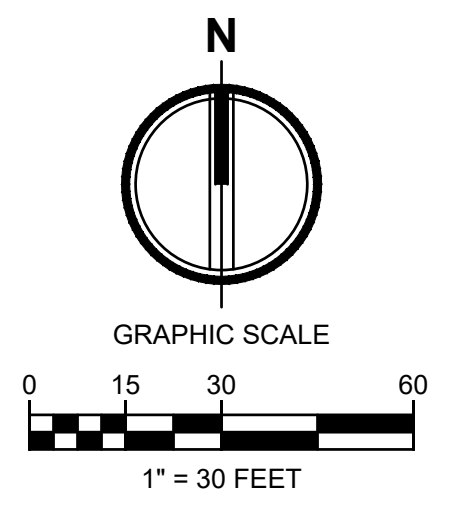


OWNER
DOCE LLC
P.O. BOX 64160
TACOMA, WA 98464
CONTACT: DON HUBER

SURVEYOR
AHBL, INC
2215 NORTH 30TH STREET,
SUITE 300 TACOMA, WA 98403
PH. (253) 383-2422
CONTACT: DAVE FOLLANSBEE, PLS

CIVIL ENGINEER
AHBL, INC.
2215 NORTH 30TH STREET,
SUITE 300 TACOMA, WA 98403
PH. (253) 383-2422
CONTACT: MATT WEBER, PE

ARCHITECT
JAMES GUERRERO ARCHITECTS
7520 BRIDGEPORT WAY W
LAKEWOOD, WA 98499
PH. (253) 851-6000
CONTACT: JAMES GUERRERO, AIA



EXISTING	PROPOSED
	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
	STORM LINE
	SEWER LINE
	WATER LINE
	ELECTRICAL LINE
	COMMUNICATION LINE
	OVERHEAD UTILITIES
	FENCE
	ASPHALT
	CONCRETE
	GRAVEL

TOPOGRAPHIC NOTE

THE EXISTING CULTURAL AND TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, AHBL CANNOT ENSURE ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

FILL SPECIFICATION

FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR SUBSTANCES WHICH ARE HAZARDOUS, DANGEROUS, TOXIC, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL, OR LOCAL LAW, ORDINANCE, CODE, REGULATION, RULE, ORDER, OR STANDARD.

TRENCH NOTE

IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR OR MORE FEET IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.3(3)B, IT SHALL BE SHORED AND CRIBBED. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY AND AHBL ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW.

UTILITY NOTE

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT HAPPEN DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. AHBL ASSUMES NO LIABILITY FOR THE LOCATION OF UNDERGROUND UTILITIES.

UTILITIES

WATER - CITY OF PUYALLUP
SANITARY SEWER - CITY OF PUYALLUP
ELECTRICITY - PUGET SOUND ENERGY
NATURAL GAS - PUGET SOUND ENERGY
TELEPHONE - CENTURY LINK

SITE

SITE ADDRESS - XXX 2ND STREET NE
PUYALLUP WA 98371
PARCEL - 7600200051
SITE AREA - 33,600 SF (0.77 ACRES)
ZONING- CBD

VERTICAL DATUM

NAVD 1988 VERTICAL DATUM ON ORTHOMETRICALLY CORRECTED GPS OBSERVATION USING WSRN AND GEOID 2012A.

BASIS OF BEARING

NAD 1983 WASHINGTON STATE PLANE SOUTH PROJECTION, BASED ON GPS OBSERVATIONS USING WSRN AND GEOID 2012A. UNITS OF MEASUREMENT ARE US SURVEY FEET.

AMR NOTE

REFER TO APPROVED AMR E21-570 AND APPROVED AMR E21-0571 FOR APPROVED MODIFICATIONS TO PUYALLUP ROAD STANDARDS.

SHEET INDEX

Sheet Number	Sheet Title
C0.1	COVER SHEET
C0.2	EXISTING CONDITIONS MAP
C1.0	TESC AND DEMOLITION PLAN
C1.1	TESC NOTES AND DETAILS
C1.2	TESC NOTES AND DETAILS
C2.0	HORIZONTAL CONTROL AND SURFACING PLAN
C2.1	SURFACING NOTES AND DETAILS
C2.2	SURFACING NOTES AND DETAILS
C2.3	CHANNELIZATION PLAN
C2.4	CHANNELIZATION NOTES AND DETAILS
C2.5	CHANNELIZATION NOTES AND DETAILS
C3.0	GRADING AND DRAINAGE PLAN
C3.1	DRAINAGE NOTES AND DETAILS
C3.2	DRAINAGE NOTES AND DETAILS
C3.3	DRAINAGE NOTES AND DETAILS
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C4.0	UTILITY PLAN
C4.1	WATER AND SEWER NOTES AND DETAILS
C4.2	WATER AND SEWER NOTES AND DETAILS
C4.3	WATER AND SEWER NOTES AND DETAILS
C4.4	WATER AND SEWER NOTES AND DETAILS
C4.5	WATER AND SEWER NOTES AND DETAILS
C4.6	WATER AND SEWER NOTES AND DETAILS
C4.7	WATER AND SEWER NOTES AND DETAILS

LEGAL DESCRIPTION

(PER OLD REPUBLIC TITLE, LTD., ORDER NUMBER 5217024093-CB, EFFECTIVE DATE MAY 23, 2018, AT 8:00 A.M.):

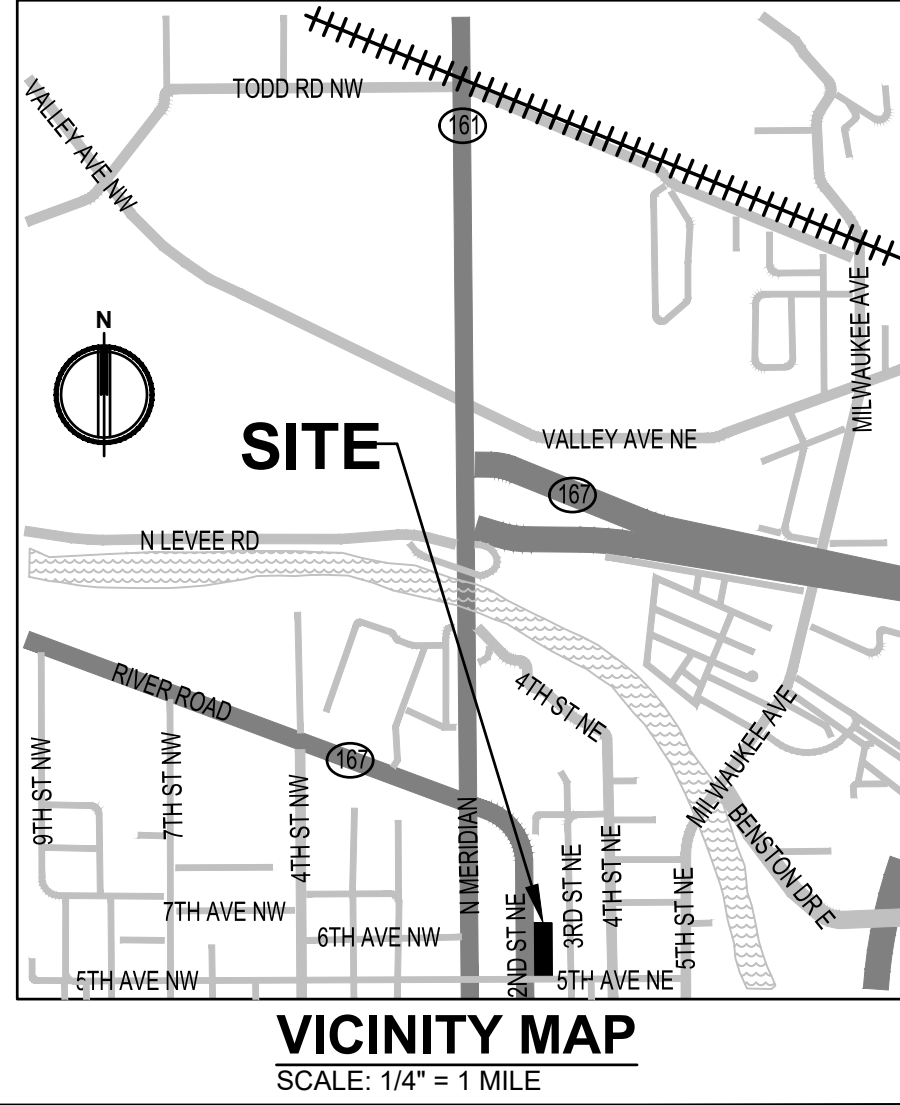
PARCEL A:
THAT PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 27, TOWNSHIP 20 NORTH, RANGE 4 EAST, W.M., DESCRIBED AS FOLLOWS:

BEGINNING ON THE EAST BOUNDARY OF 2ND STREET N.E. IN THE CITY OF PUYALLUP, 149.78 FEET NORTH OF THE SOUTHWEST CORNER OF BLOCK 4, SHUMAN'S ADDITION TO PUYALLUP, PIERCE COUNTY, WASHINGTON, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 5 OF PLATS, PAGE 99, RECORDS OF PIERCE COUNTY, WASHINGTON;

THENCE CONTINUE NORTH ON SAID BOUNDARY, 130.22 FEET; THENCE EAST PARALLEL WITH THE SOUTH LINE OF SAID BLOCK 4, 120 FEET; THENCE SOUTH PARALLEL WITH SAID EAST BOUNDARY OF 2ND STREET N.E., 130.22 FEET TO THE NORTH LINE OF SAID BLOCK 4; THENCE WEST 120 FEET TO THE POINT OF BEGINNING.

PARCEL B:
LOTS 1, 2 AND 3, BLOCK 4, SHUMAN'S SECOND ADDITION TO PUYALLUP, PIERCE COUNTY, WASHINGTON, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 5 OF PLATS, PAGE 99, RECORDS OF PIERCE COUNTY, WASHINGTON.

BOTH SITUATE IN THE COUNTY OF PIERCE, STATE OF WASHINGTON.



GENERAL 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 CENTER TO BE ATTENDED BY ALL MAJOR CONTRACTORS, REPRESENTATIVES OF INVOLVED UTILITIES, AND THE CITY OF PUYALLUP. CONTACT ENGINEERING SERVICES AT (253-841-5568) TO SCHEDULE THE MEETING. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN SET OF PLANS AT THE MEETING.
- 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.
- 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 CITY PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST 48 HOURS 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.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE TRUE ELEVATIONS AND LOCATIONS OF HIDDEN UTILITIES. ALL VISIBLE ITEMS SHALL BE THE ENGINEER'S RESPONSIBILITY.
- THE CONTRACTOR SHALL INSTALL, REPLACE, OR RELOCATE ALL SIGNS, AS SHOWN ON THE PLANS OR AS AFFECTED BY CONSTRUCTION, PER CITY STANDARDS.
- POWER, STREET LIGHT, CABLE, AND TELEPHONE LINES SHALL BE IN A TRENCH LOCATED WITHIN A 10-FOOT UTILITY EASEMENT ADJACENT TO PUBLIC RIGHT-OF-WAY. RIGHT-OF-WAY CROSSINGS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION FROM OTHER UTILITIES (SEWER, WATER, STORM) OF 5 FEET.
- ALL CONSTRUCTION SURVEYING FOR EXTENSIONS OF PUBLIC FACILITIES SHALL BE DONE UNDER THE DIRECTION OF A WASHINGTON STATE LICENSED LAND SURVEYOR OR A WASHINGTON STATE LICENSED PROFESSIONAL CIVIL ENGINEER.
- DURING CONSTRUCTION, ALL PUBLIC STREETS ADJACENT TO THIS PROJECT SHALL BE KEPT CLEAN OF ALL MATERIAL DEPOSITS RESULTING FROM ON-SITE CONSTRUCTION, AND EXISTING STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE CITY.
- CERTIFIED RECORD DRAWINGS ARE REQUIRED PRIOR TO PROJECT ACCEPTANCE.
- AN NPDES STORMWATER GENERAL PERMIT MAY BE REQUIRED BY THE DEPARTMENT OF ECOLOGY FOR THIS PROJECT. FOR INFORMATION CONTACT THE DEPARTMENT OF ECOLOGY AT (360)407-6300.
- ANY DISTURBANCE OR DAMAGE TO CRITICAL AREAS AND ASSOCIATED BUFFERS, OR SIGNIFICANT TREES DESIGNATED FOR PRESERVATION AND PROTECTION SHALL BE MITIGATED IN ACCORDANCE WITH A MITIGATION PLAN REVIEWED AND APPROVED BY THE CITY'S PLANNING DIVISION. PREPARATION AND IMPLEMENTATION OF THE MITIGATION PLAN SHALL BE AT THE DEVELOPER'S EXPENSE.



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 *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 11/20/2024

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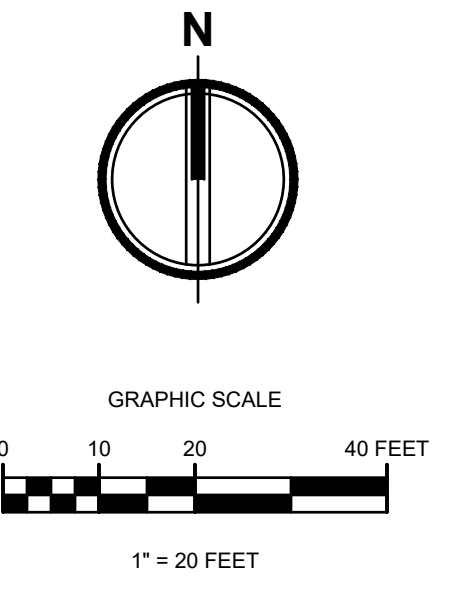
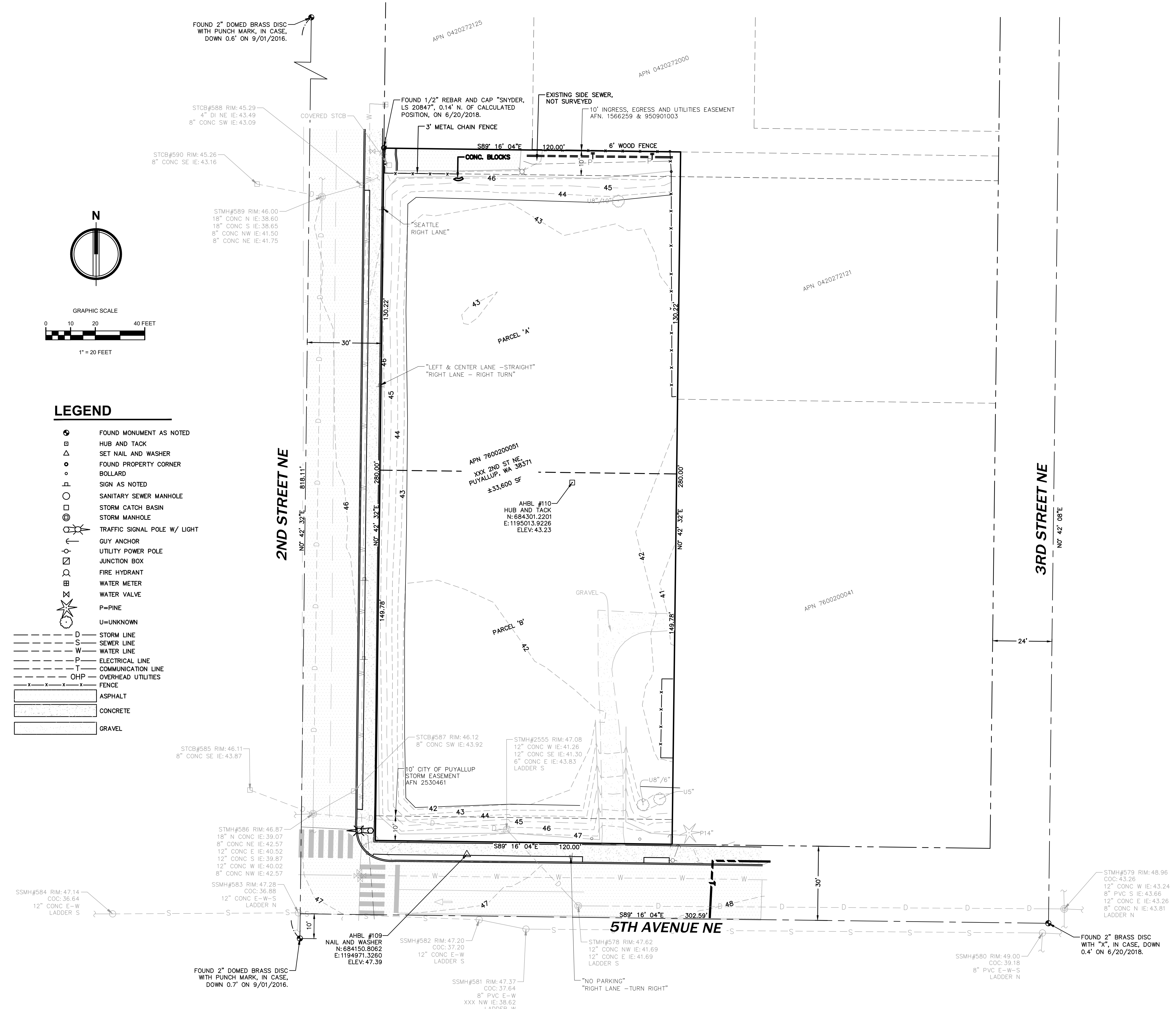
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**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



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
- P ELECTRICAL LINE
- T COMMUNICATION LINE
- OHP OVERHEAD UTILITIES
- FENCE
- ASPHALT
- CONCRETE
- GRAVEL



Revisions:

Sheet Title:

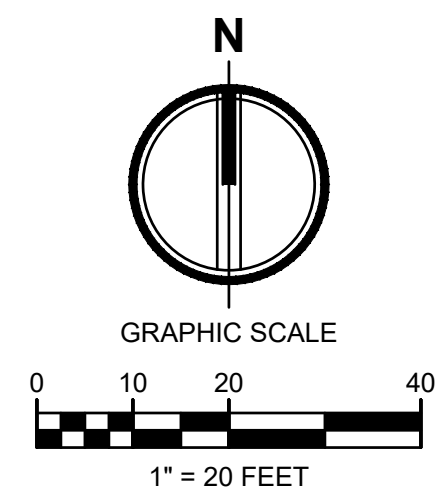
EXISTING CONDITIONS MAP

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

Sheet No.
C0.2
2 of 25 Sheets

PUYALLUP 2ND STREET APARTMENTS

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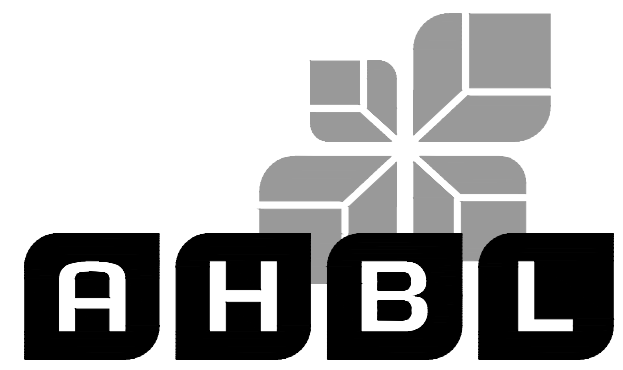


APPROVED

BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 11/20/2024

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Issue Set & Date: SITE DEVELOPMENT PERMIT SET

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**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Revisions:

Sheet Title:

TESC AND DEMOLITION PLAN

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

Sheet No.

C1.0

3 of 25 Sheets

CONSTRUCTION SEQUENCE

- HOLD A PRECONSTRUCTION MEETING WITH THE CITY AND OBTAIN REQUIRED PERMITS.
- STAKE OR PAINT CLEARING AND GRADING LIMITS.
- PROVIDE INLET PROTECTION AS SHOWN.
- CONSTRUCT TEMPORARY CONSTRUCTION ENTRANCE.
- INSTALL SILT FENCE AND INFILTRATION AREA PROTECTION.
- INSTALL TEMPORARY SEDIMENT TRAP.
- SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY.
- CONSTRUCT PERMANENT STORMWATER SYSTEM AND INFILTRATION TRENCH.
- PROVIDE COVER MEASURES (ARMORING, MULCHING, AND HYDROSEEDING) AS REQUIRED TO STABILIZE DENUDED AREAS AND PREVENT THE TRANSPORT OF SEDIMENT-LADEN STORMWATER OFF-SITE.
- 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.
- 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.
- AFTER SITE HAS BEEN PERMANENTLY STABILIZED, REMOVE SEDIMENT FROM STORM PIPES AND CATCH BASIN SUMPS.
- COORDINATE WITH THE CITY OF PUYALLUP AND ENGINEER FOR FINAL INSPECTION.
- 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.

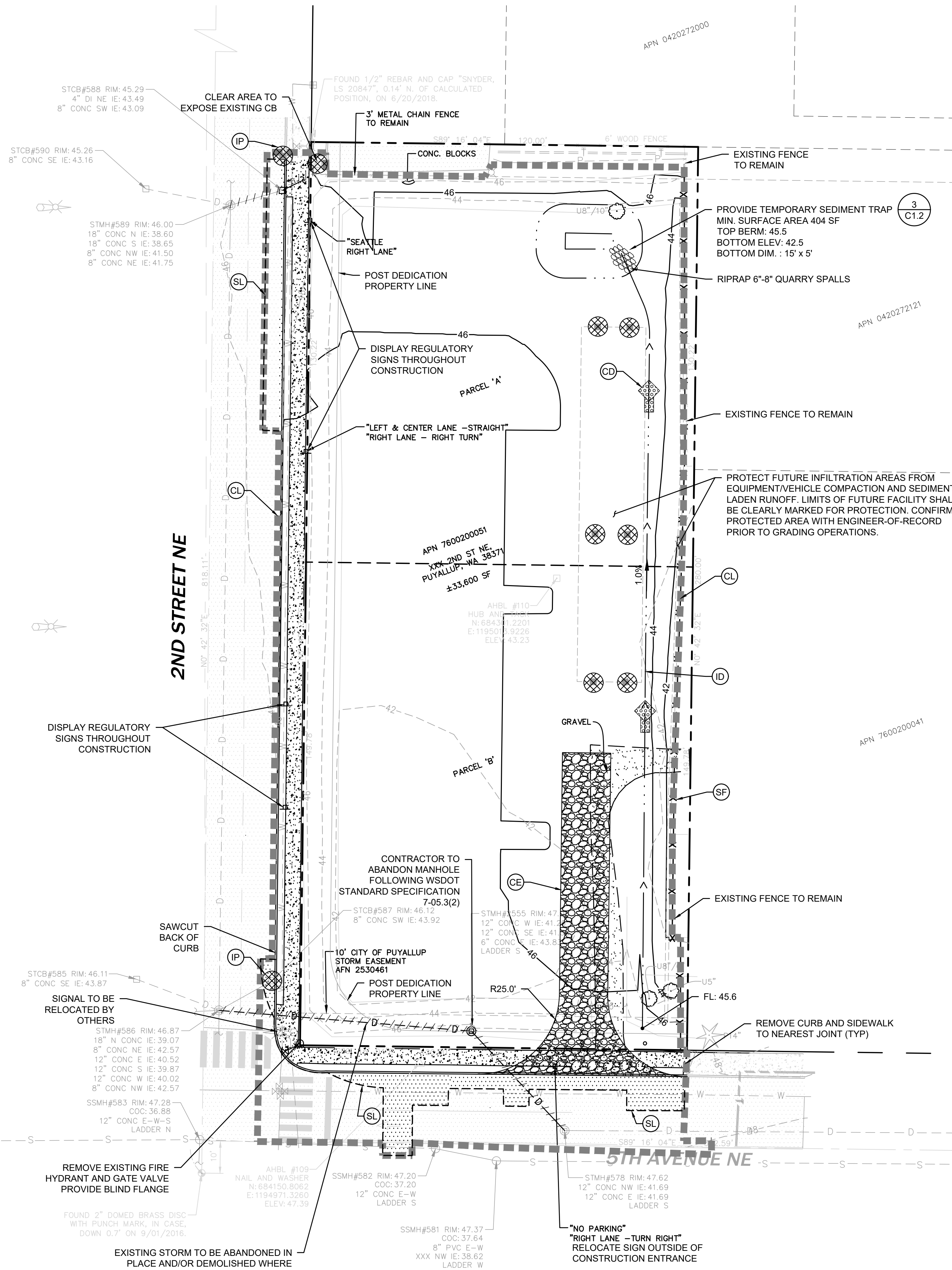
LEGEND

- CE** CONSTRUCTION ENTRANCE
- ASPHALT TO BE REMOVED
- CONCRETE TO BE REMOVED
- SF** SILTATION FENCE
- CL** CLEARING/PROJECT LIMITS
- SL** SAWCUT LINE
- ID** INTERCEPTOR DITCH
- DEMOLISH/ABANDON EXISTING UTILITY
- IP** INLET SEDIMENT PROTECTION
- CD** ROCK CHECK DAM
- 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
- PROPOSED CATCH BASIN

GRADING, EROSION & SEDIMENTATION CONTROL 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 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.
- 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.
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- 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.
- 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- SEDIMENT-LADEN RUNOFF SHALL NOT BE ALLOWED TO DISCHARGE BEYOND THE CONSTRUCTION LIMITS IN ACCORDANCE WITH THE PROJECT'S NPDES GENERAL STORMWATER PERMIT.



Know what's below.
Call before you dig.

PUYALLUP 2ND STREET APARTMENTS

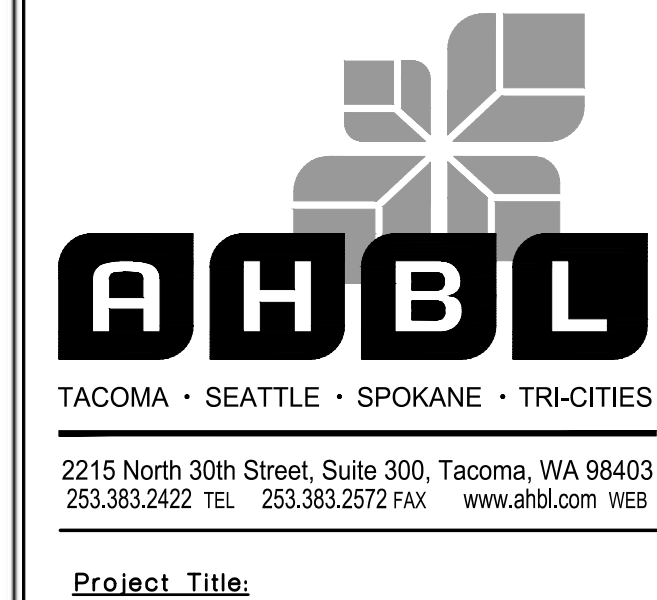
A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 27, TWN. 20 N., RGE. 04 E. W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

APPROVED

BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 11/20/2024

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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

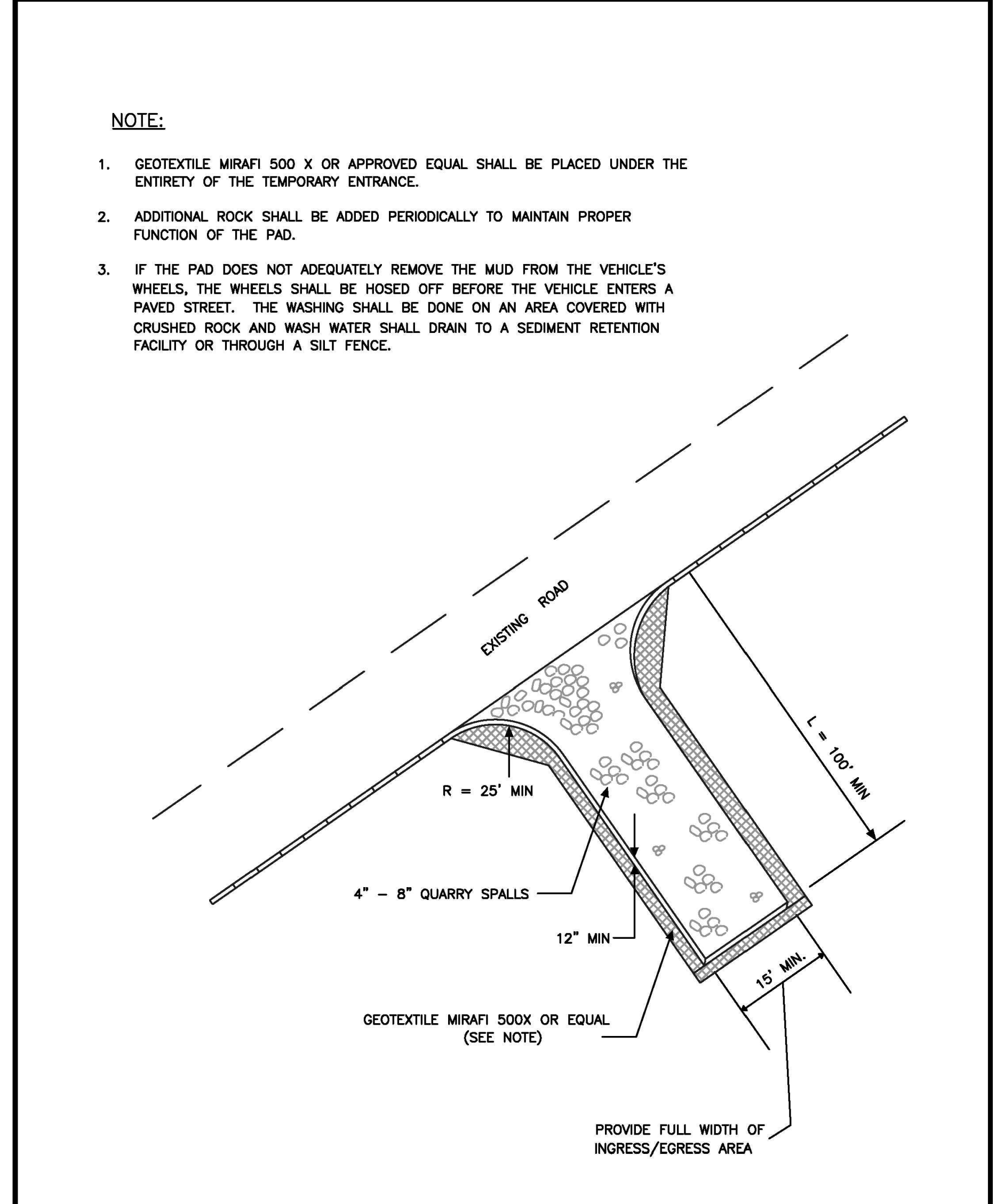
Issue Set & Date:
SITE DEVELOPMENT PERMIT SET
10/8/2024



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**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



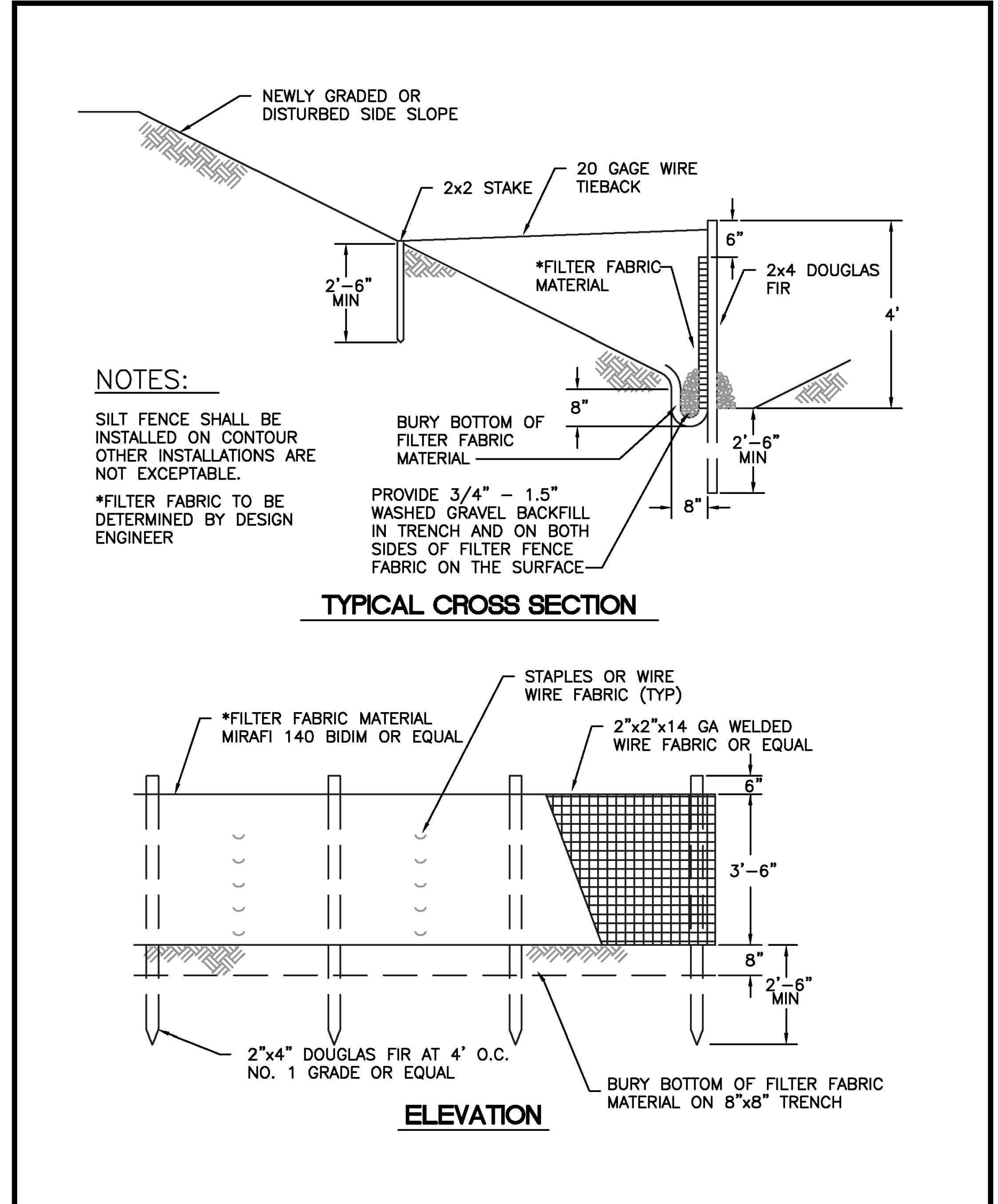
CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	TEMPORARY CONSTRUCTION ENTRANCE				CITY STANDARD 05.01.01
	DRAWN BY JIM SWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX	
FILE NAME F:\DWG\COMMON\STD\DCITY\2009\05_GRI\05.01.05.01.01		DATE APPROVED 07/01/2009		DATE REVISION XX/XX/XX	SCALE 1:40

1 TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE

1. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
2. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITEE.
3. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITEE TO ADDRESS ANY NEW CONDITIONS THAT MAY 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.
4. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
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7. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES				CITY STANDARD 05.02.01
	DRAWN BY JIM SWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN	
FILE NAME F:\DWG\COMMON\STD\DCITY\2009\05_GRI\05.01.05.02.01		DATE APPROVED 07/01/2009		DATE REVISION 11/15/2014	SCALE 1:1

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



CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	SILTATION FENCE				CITY STANDARD 02.03.02
	DRAWN BY LINDA LANSING	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX	
FILE NAME F:\DWG\COMMON\STD\DCITY\2009\02_SIV\02.03.02		DATE APPROVED 08/01/02		DATE REVISION 06/01/03	SCALE N/A

3 SILTATION FENCE
NOT TO SCALE



PUYALLUP 2ND STREET APARTMENTS

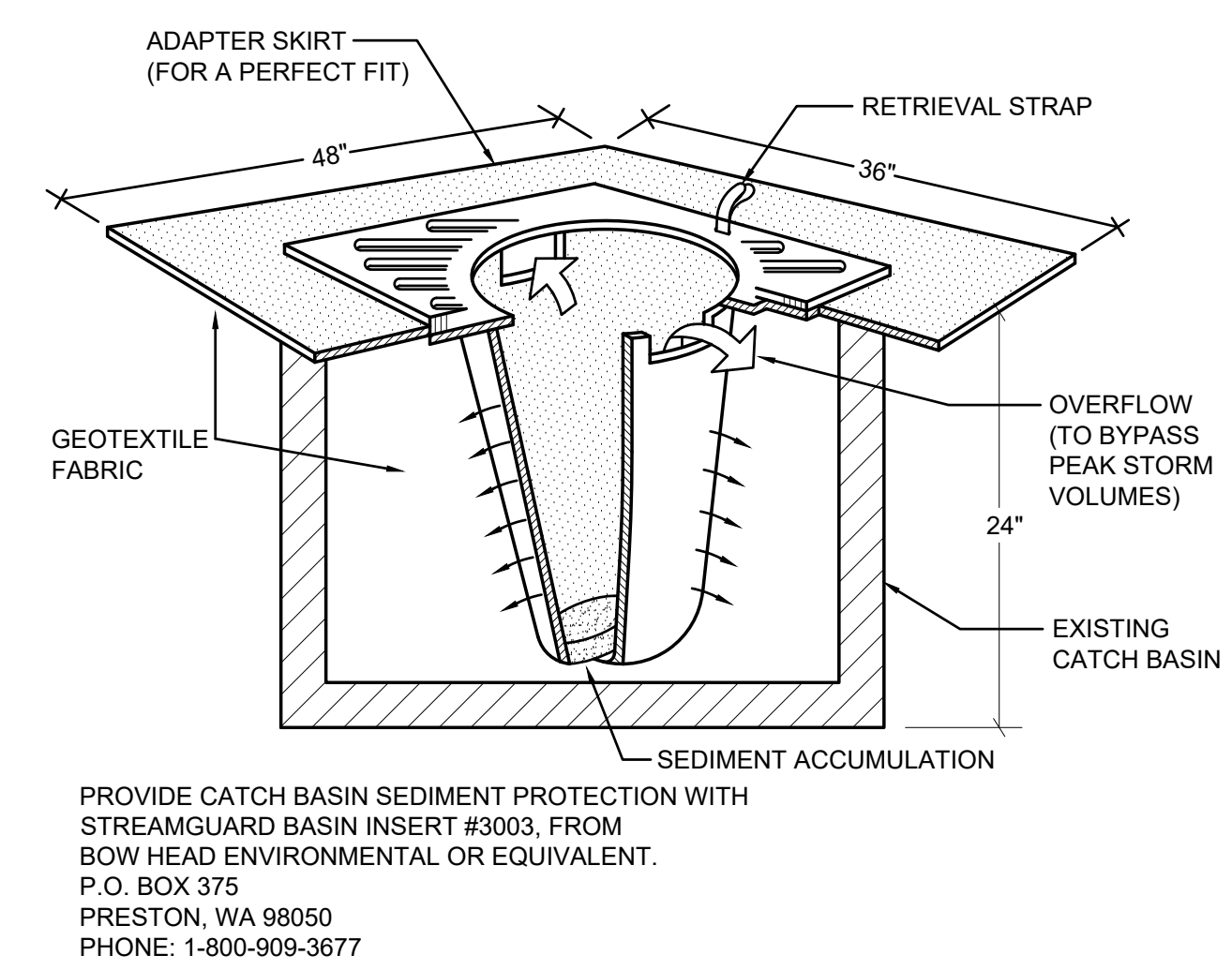
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CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

APPROVED

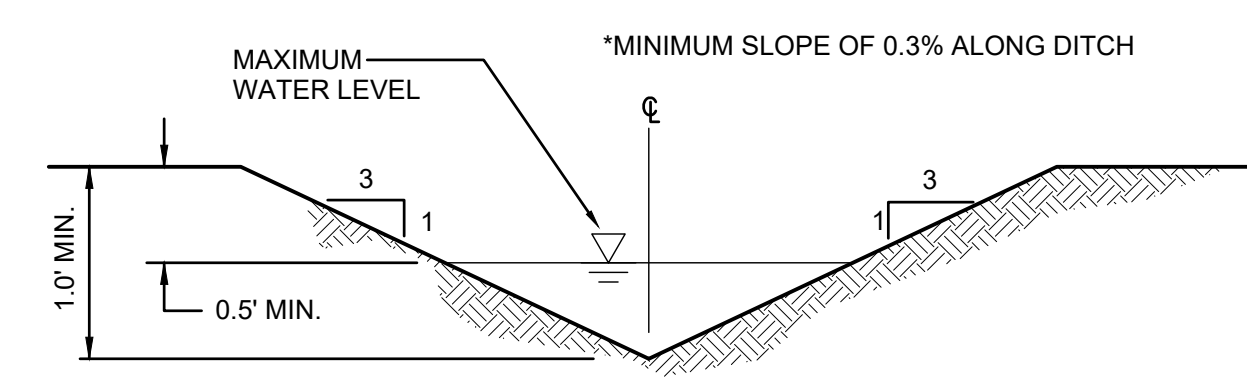
BY *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 11/20/2024

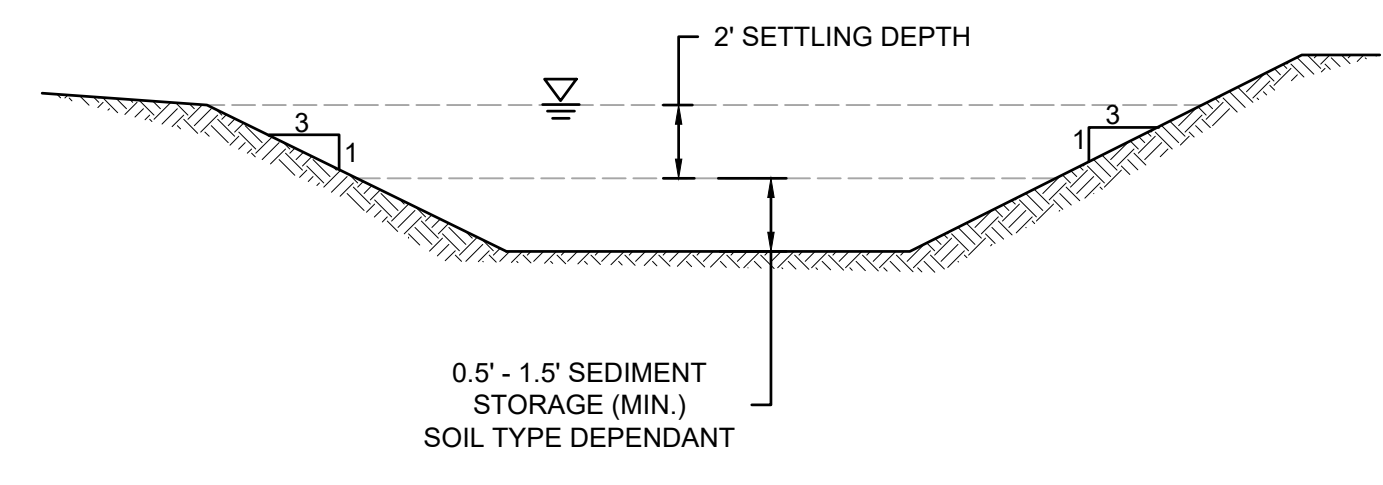
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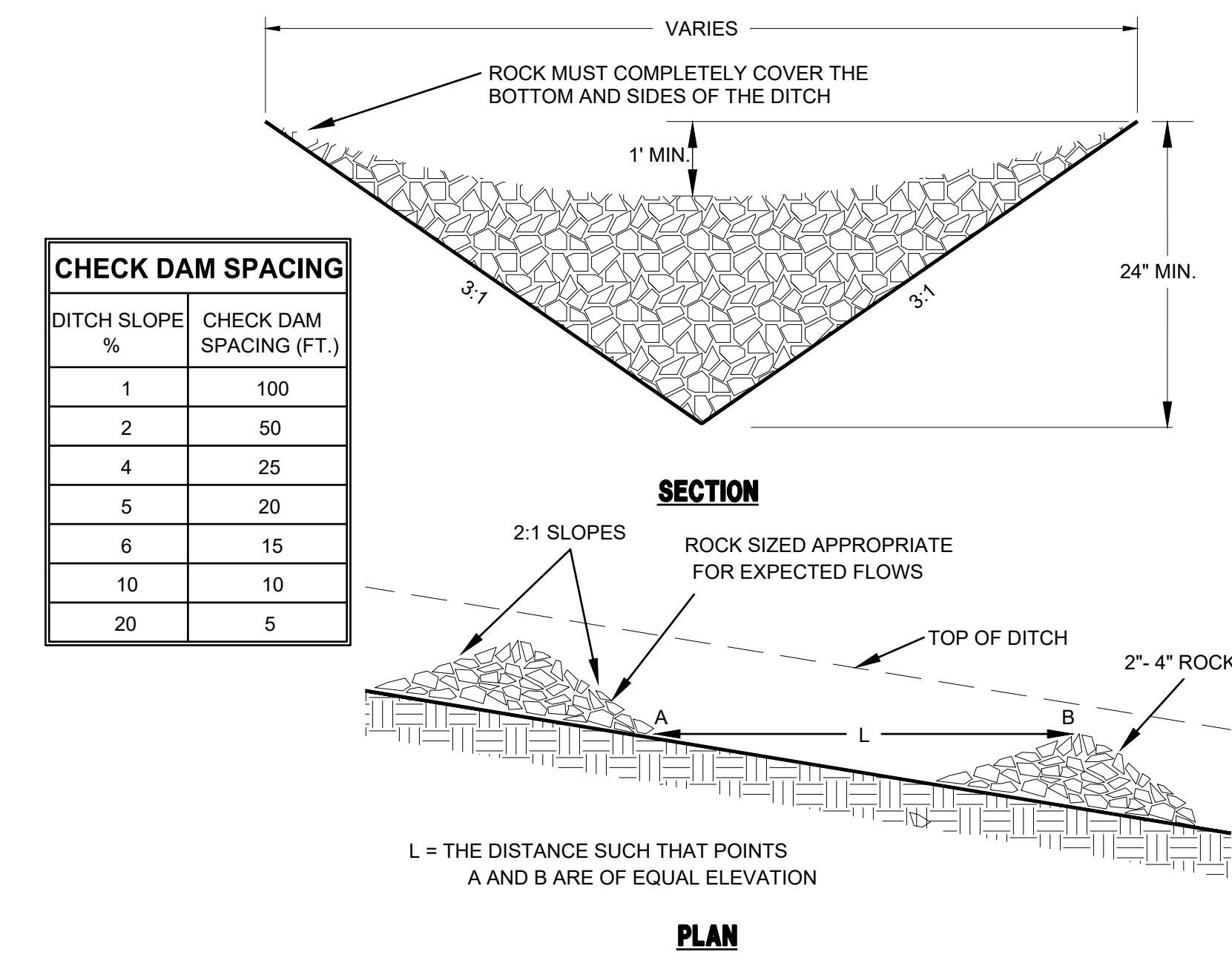
1 INLET PROTECTION
NOT TO SCALE



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

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
10/8/2024



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**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Revisions:

Sheet Title:

TESC NOTES AND DETAILS

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

Sheet No.

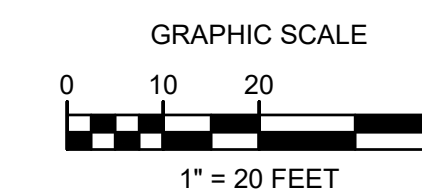
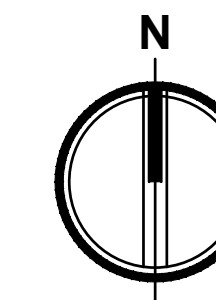
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5 of 25 Sheets



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.

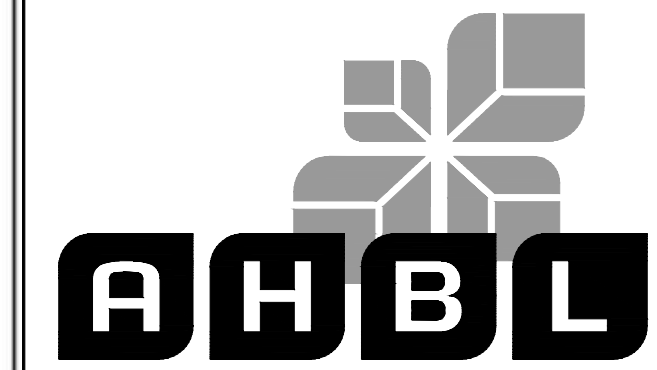


APPROVED

BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

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TACOMA · SEATTLE · SPOKANE · TRI-CITIES

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

Project Title:
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**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
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LEGEND

	ASPHALT PAVEMENT	
	CONCRETE SIDEWALK	
	PERMEABLE CONCRETE	
VC	VERTICAL CURB	
EC	EXTRUDED CURB	
NC	NO CURB	
C	COMPACT PARKING STALL	
	CHANGE IN CURB TYPE	
	PROPOSED SIGN	
	CONCRETE WHEELSTOP	

FIRE NOTES

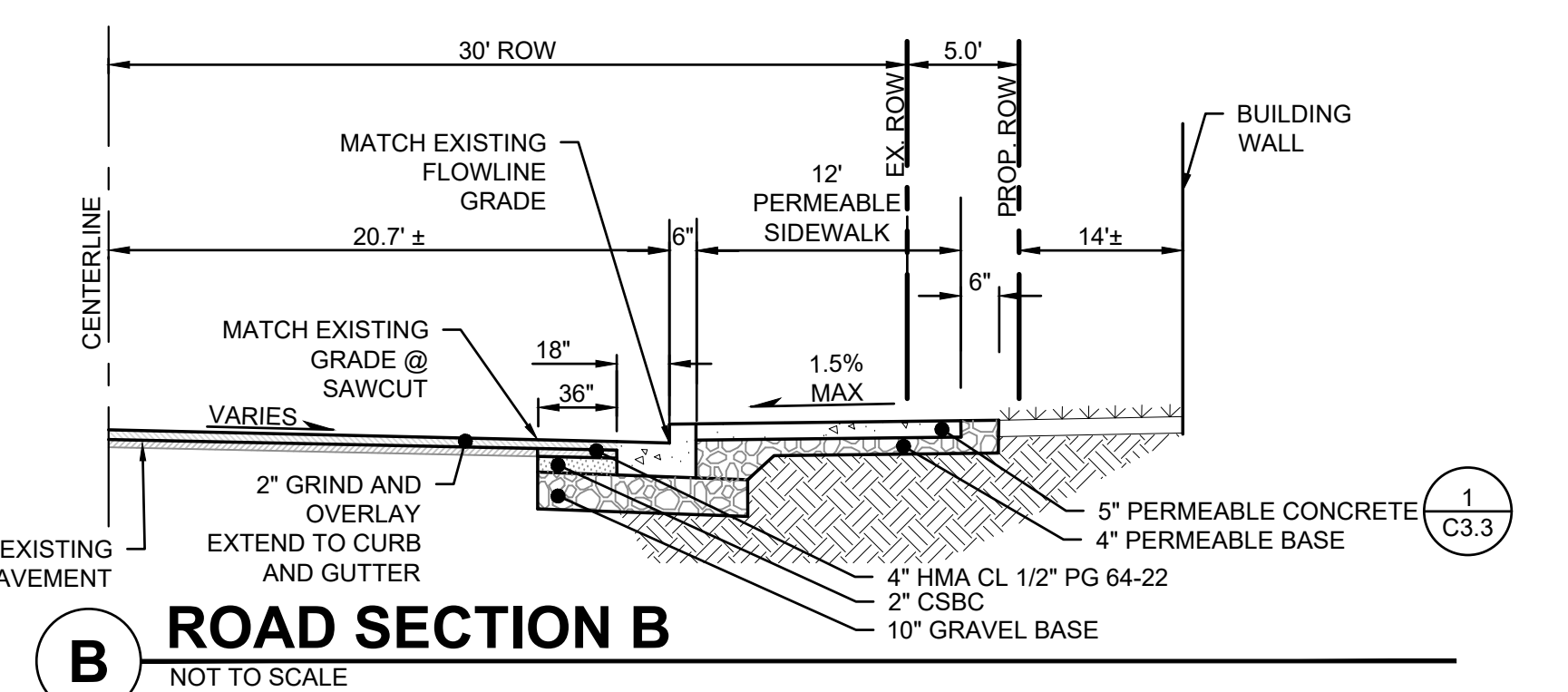
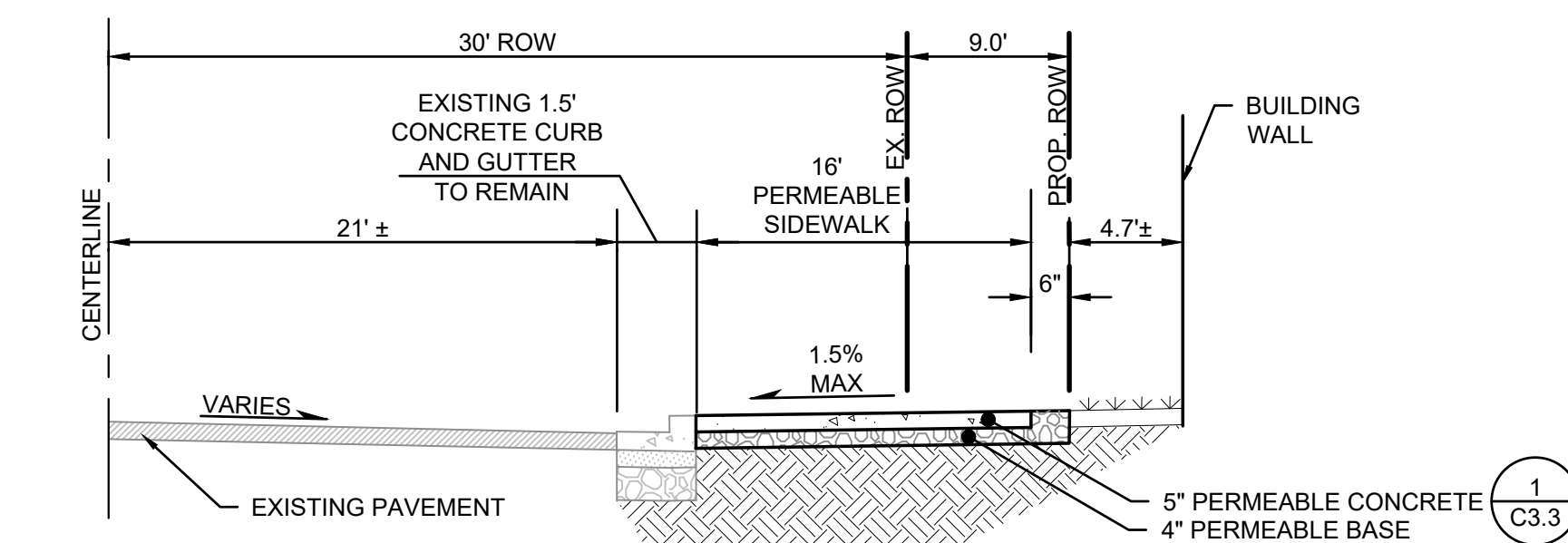
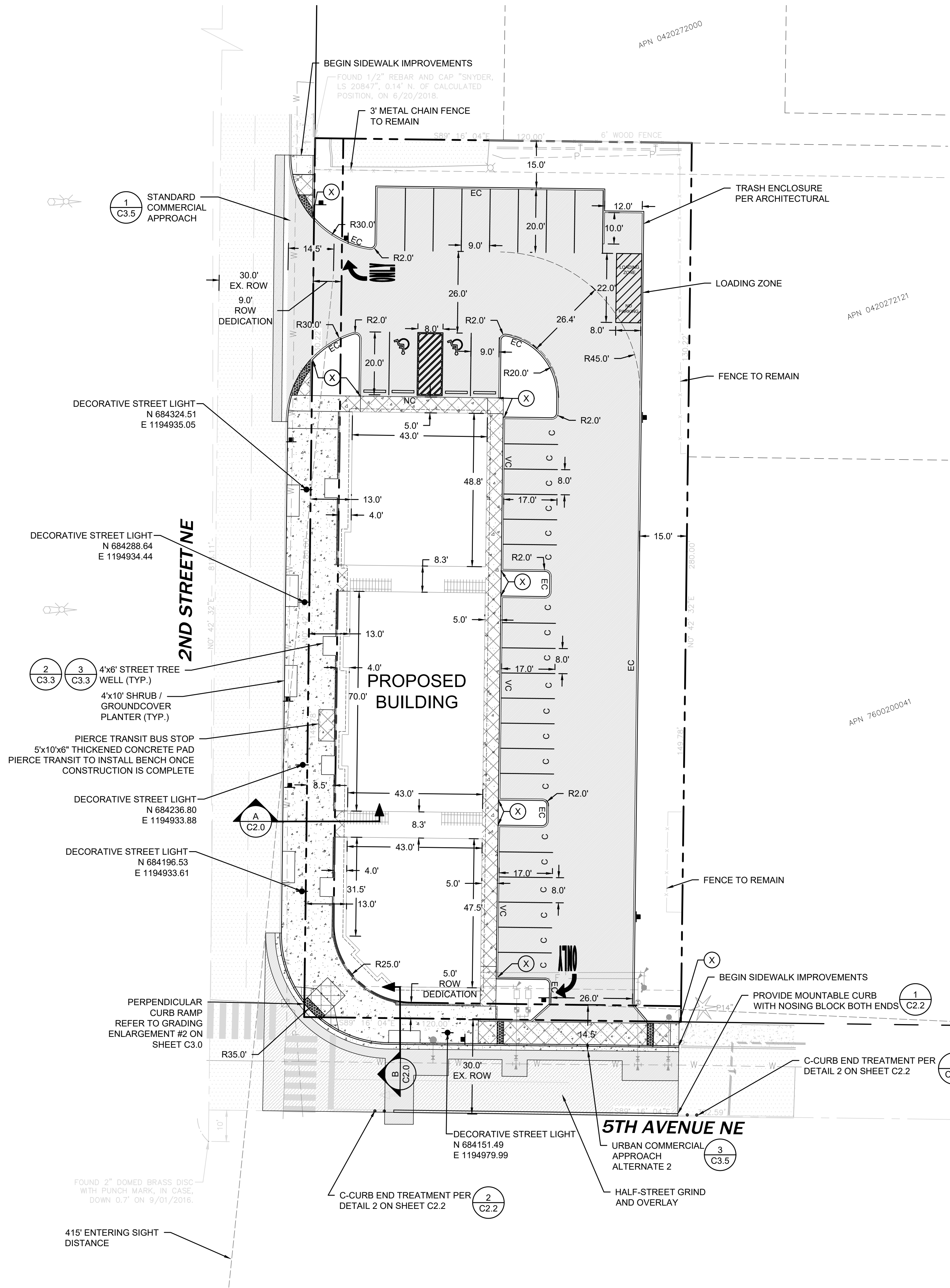
- "NO PARKING FIRE LANE" SIGNS TO MEET INTERNATIONAL FIRE CODE D103.6 STANDARDS. 12"x18" WITH RED LETTERS ON WHITE REFLECTIVE BACKGROUND.
- PROVIDE YELLOW PAINTED CURBS ALONG FIRE ACCESS ROUTE.

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



Revisions:

Sheet Title:
HORIZONTAL CONTROL AND SURFACING PLAN

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

Sheet No.
C2.0
6 of 25 Sheets

PUYALLUP 2ND STREET APARTMENTS

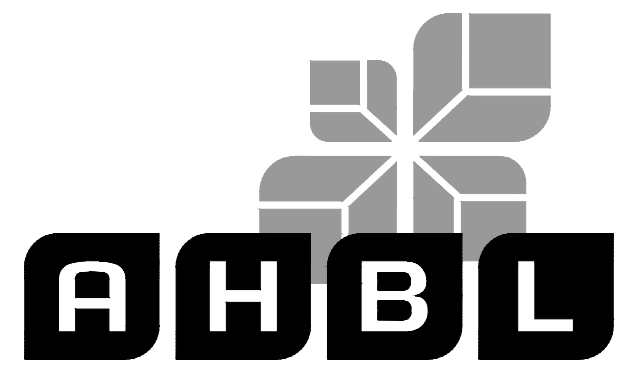
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BY: *[Signature]*
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DEVELOPMENT ENGINEERING

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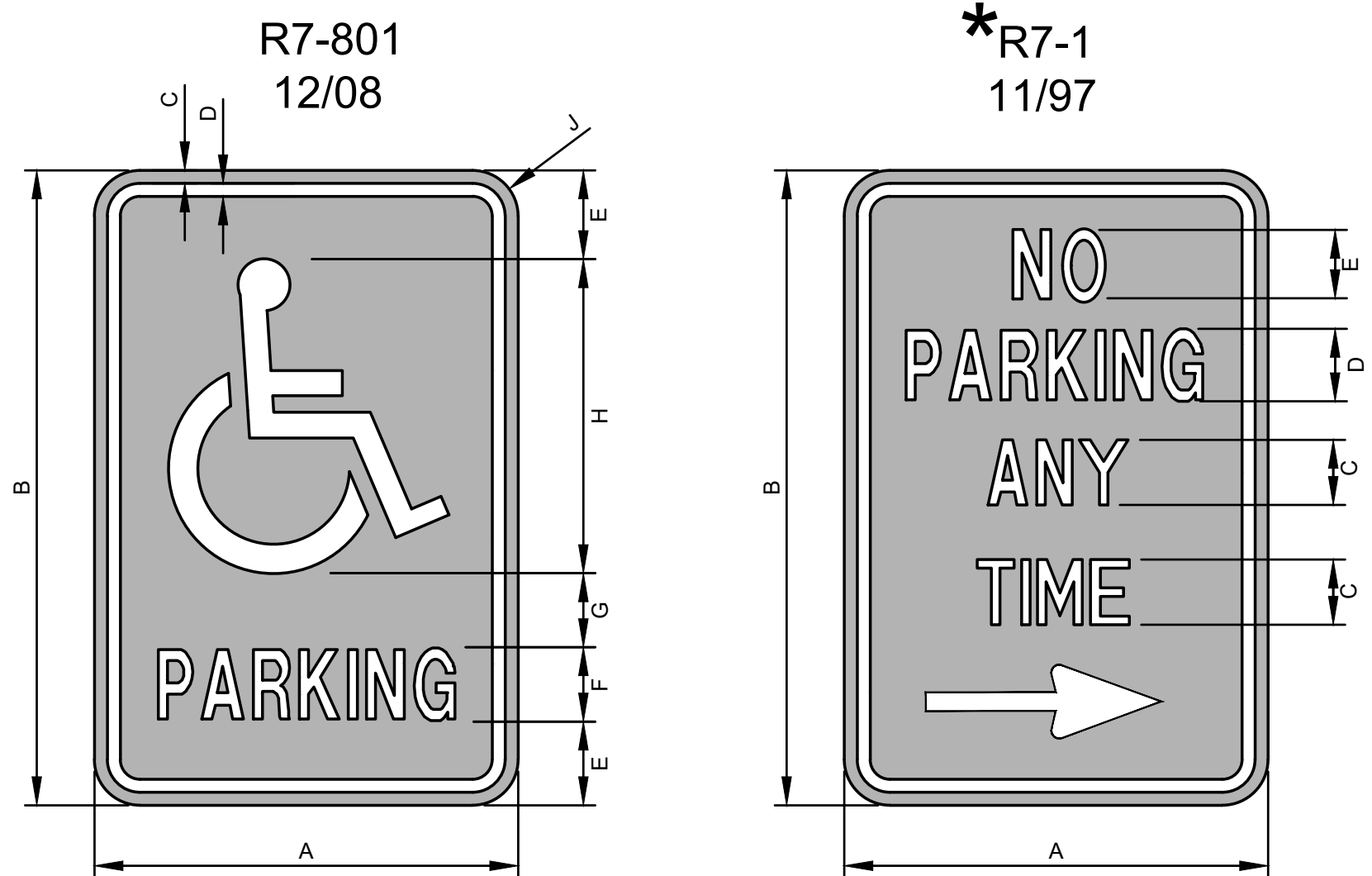
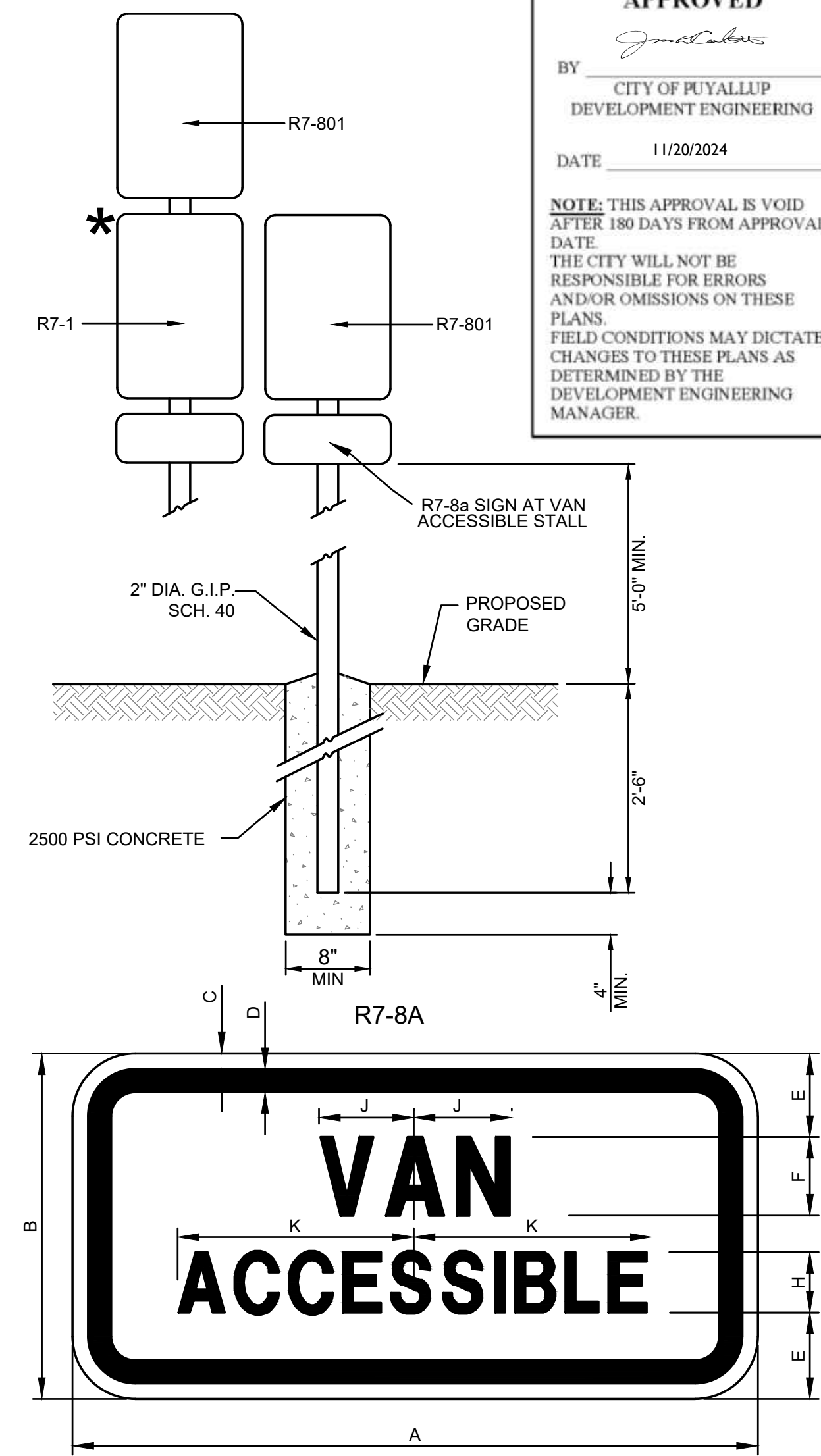
Revisions:

Sheet Title:

SURFACING NOTES AND DETAILS

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

Sheet No.
C2.1
7 of 25 Sheets



COLORS
LEGEND & BORDER - WHITE (REFL)
SYMBOL - WHITE (REFL)
BACKGROUND - BLUE (REFL)

DIMENSIONS (INCHES)									
A	B	C	D	E	F	G	H	J	
12	18	3/8	3/8	2 1/2	2C	2	9	1 1/2	

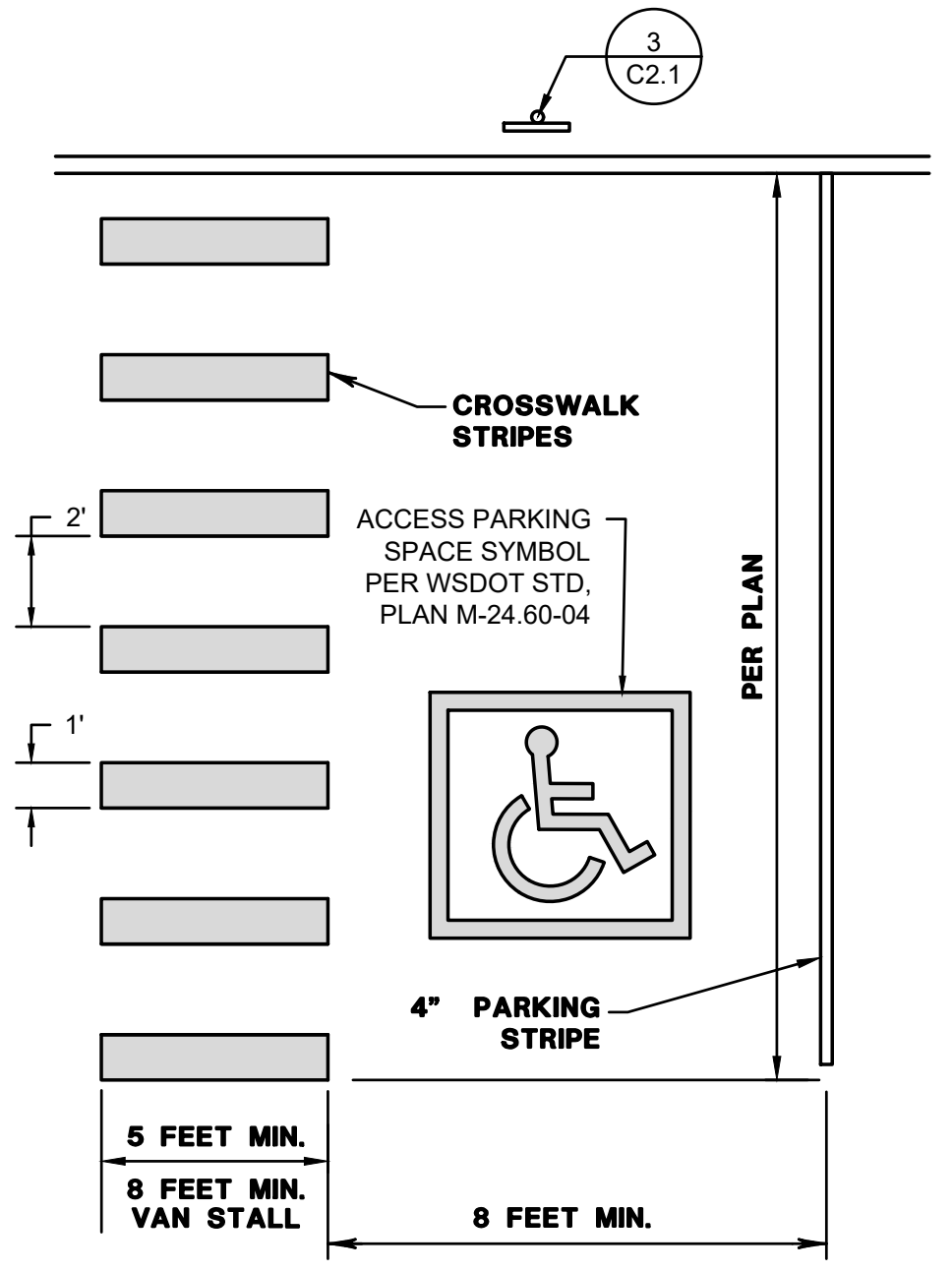
NOTE:
1. PROVIDE VAN ACCESSIBLE STALL SIGN ON STALLS IDENTIFIED AS VAN STALLS.
2. PLACE NO PARKING SIGN 12 INCHES BEHIND CURB AT OUTSIDE EDGE OF AISLES
3. PROVIDE NO PARKING SIGN ON STALL POST IF AISLE LEADS TO RAMP

SEE PLANS FOR DESIGNATED LEFT, RIGHT, OR BOTH ARROW

COLORS
LEGEND - RED
BACKGROUND - WHITE (REFL)

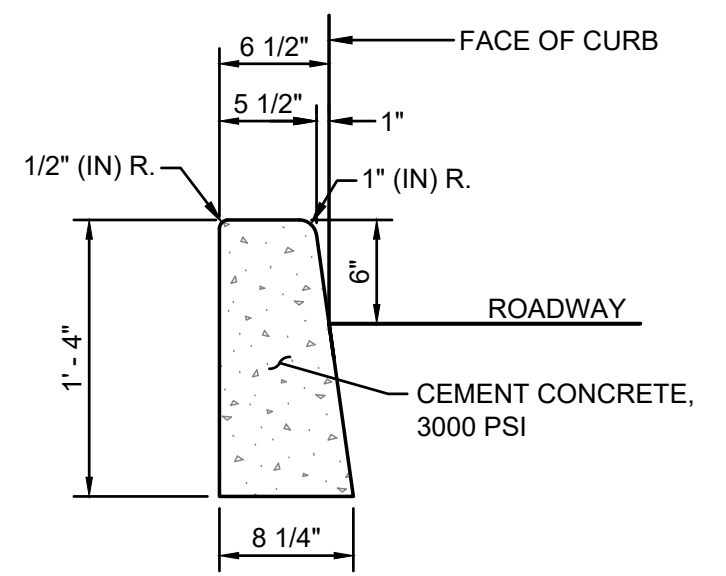
DIMENSIONS (INCHES)				
A	B	C	D	E
12	18	2C	3B	2C

NOTE:
1. PLACE NO PARKING SIGN 12 INCHES BEHIND CURB AT OUTSIDE EDGE OF AISLES

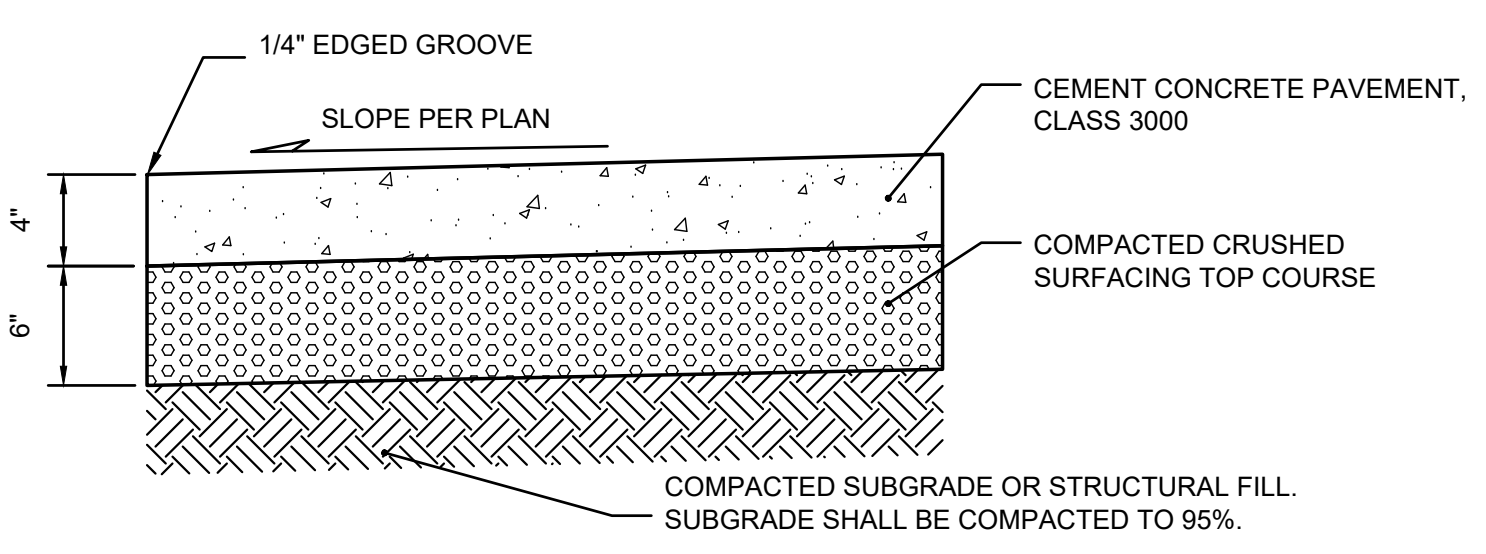


2 ACCESSIBLE PARKING
NOT TO SCALE

3 ACCESSIBLE SIGNAGE
NOT TO SCALE

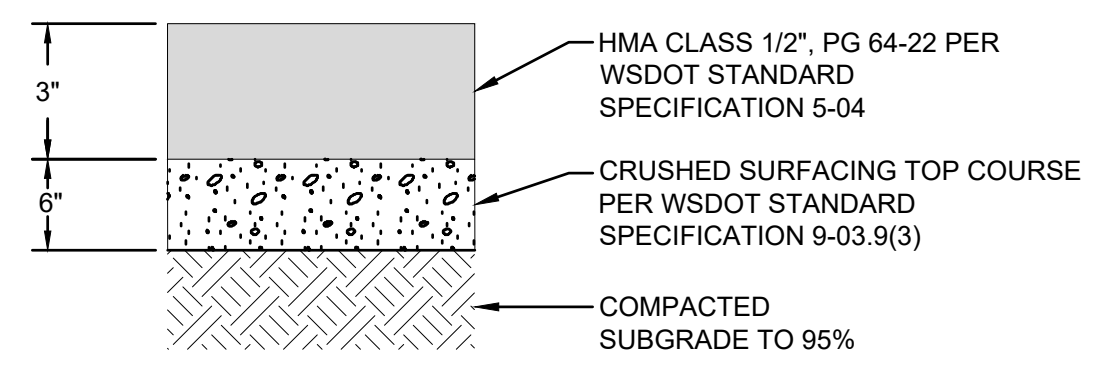


1 VERTICAL CURB
NOT TO SCALE



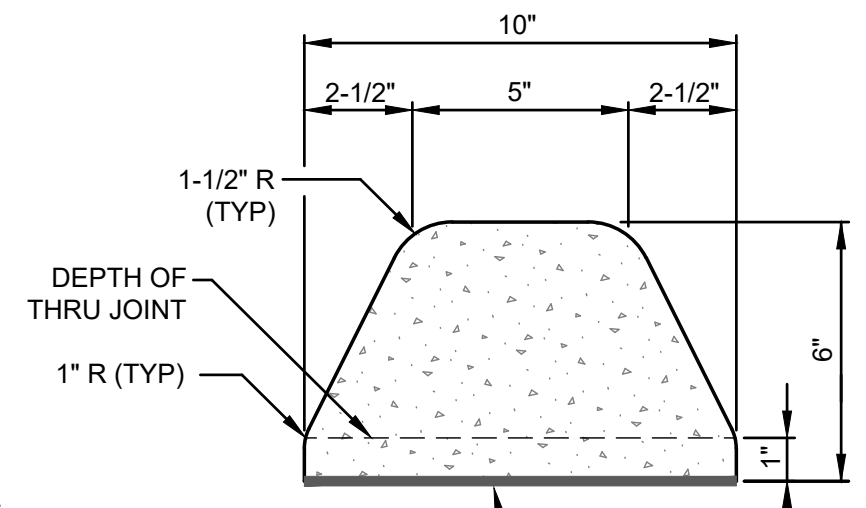
- EXPANSION JOINT NOTES:**
- EXPANSION JOINTS CONSISTING OF 3/16" BY 2" PREMOLDED JOINT MATERIAL SHALL BE PLACED AT 15 FOOT INTERVALS.
 - CONTRACTION JOINTS SHALL BE INSTALLED EVERY 5'. EXPANSION JOINTS SHALL BE PLACED AT EVERY THIRD JOINT. ALL JOINTS SHALL BE CLEAN AND EDGED WITH AN EDGE HAVING 1/4" RADIUS. JOINTS SHALL BE FLUSH WITH THE FINISHED SURFACE.
 - PREMOLDED JOINT FILLER SHALL BE PER THE SPECIFICATIONS AT 21 FOOT MAX SPACING.
 - FORMS SHALL BE EITHER WOOD OR STEEL.
 - CONCRETE SIDEWALK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS.
 - A BROOMED FINISH SHALL BE PROVIDED IN TRANSVERSE DIRECTION UNLESS OTHERWISE INDICATED.

5 CONCRETE SIDEWALK
NOT TO SCALE



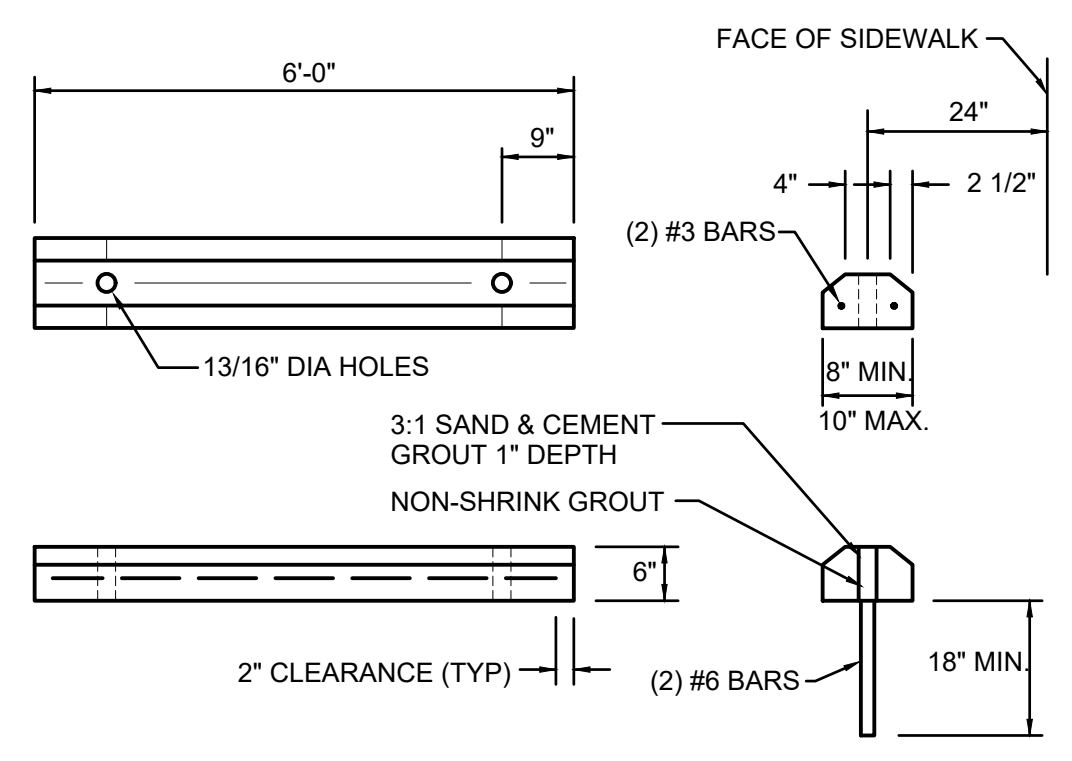
- NOTE:
1. ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
2. RECOMPACT EXISTING STRUCTURAL FILL.

6 PAVEMENT SECTION
NOT TO SCALE



- NOTE:
THE ADHESIVE SHALL MEET THE REQUIREMENTS OF SECTION 9-26.1 FOR TYPE-II EPOXY BONDING AGENT

7 EXTRUDED CURB
NOT TO SCALE



4 WHEELSTOP
NOT TO SCALE



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 *Jim Erwin*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 11/20/2024

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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

10/18/2024



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Revisions:

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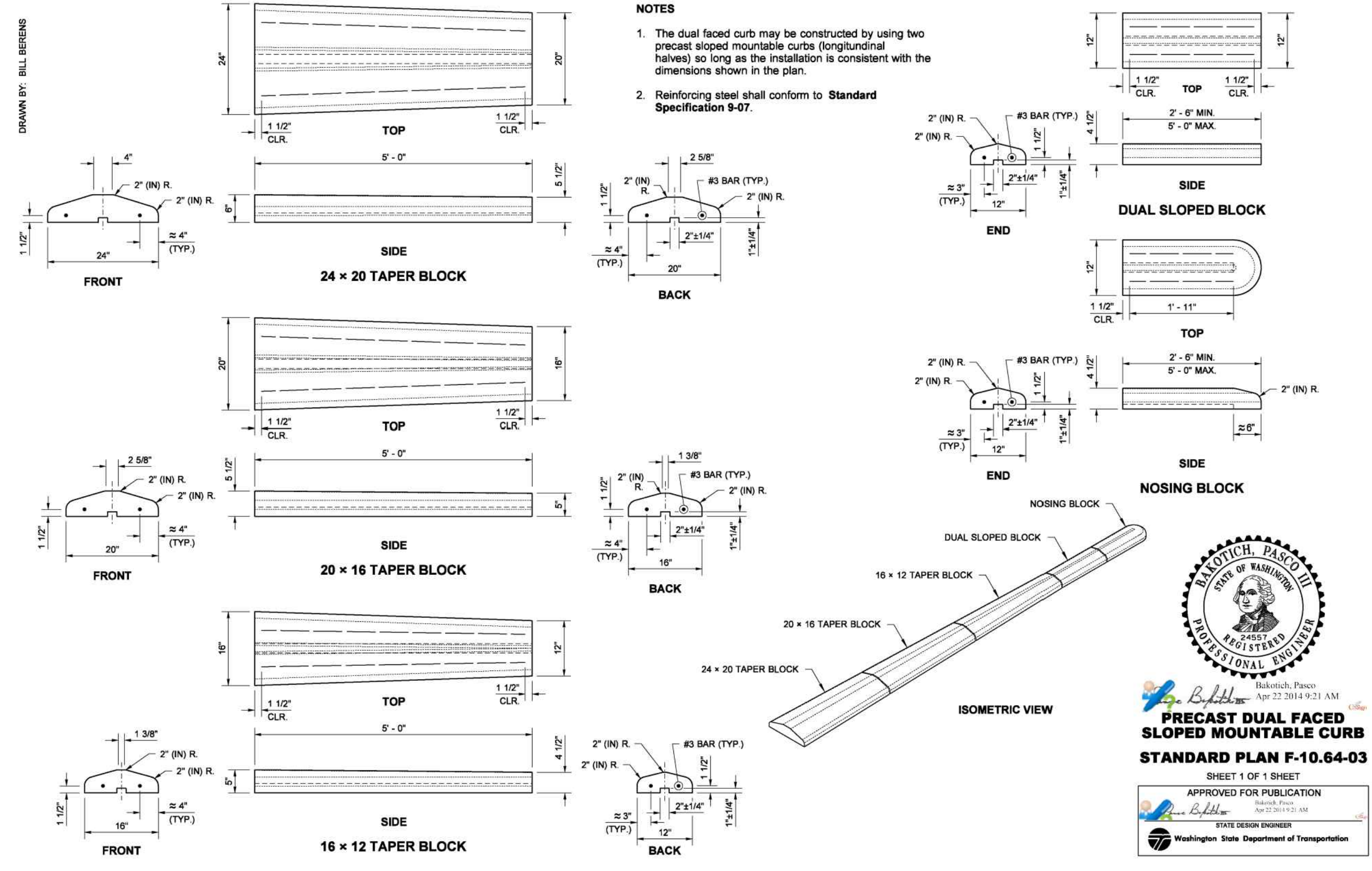
SURFACING NOTES AND DETAILS

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

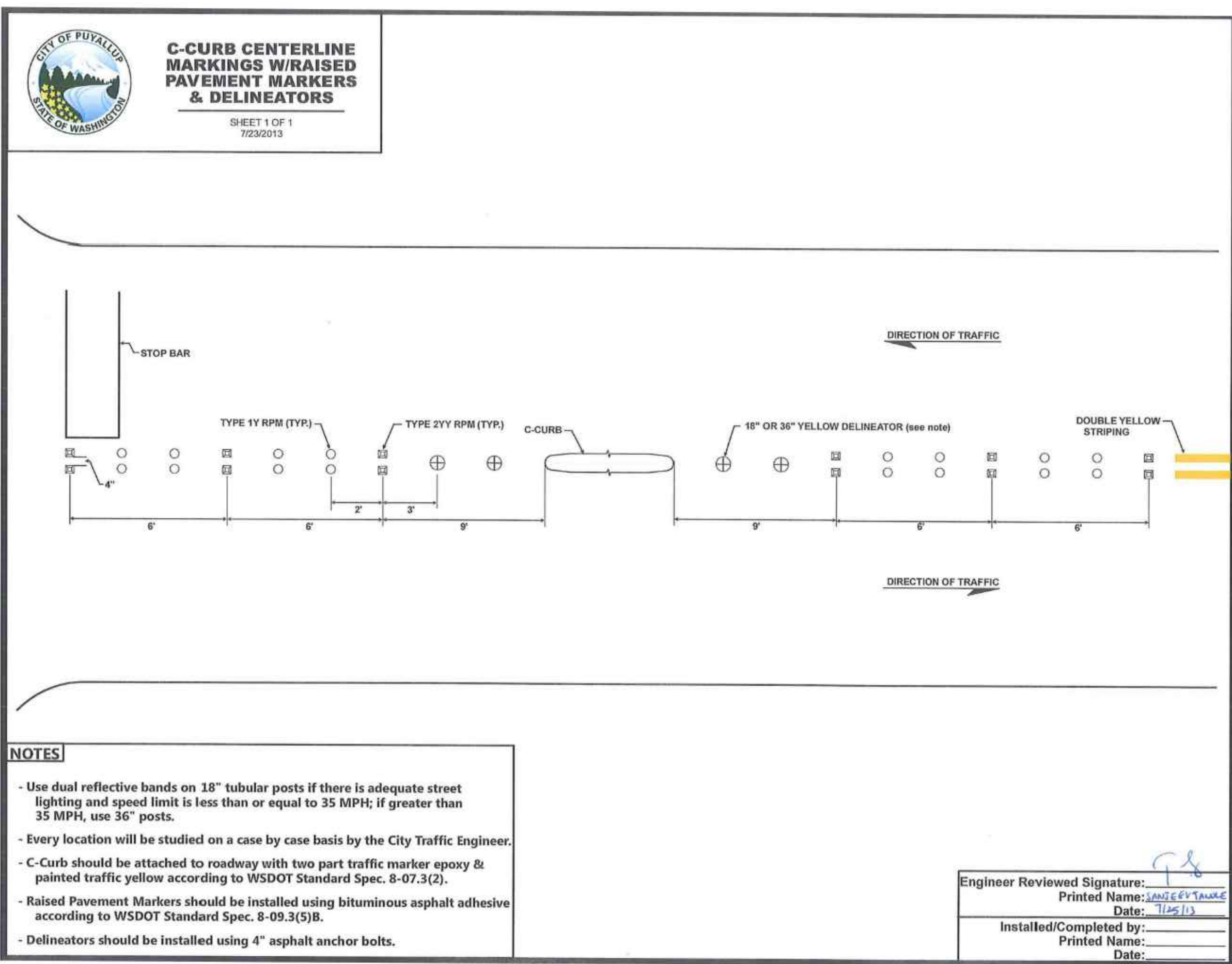
Sheet No.

C2.2

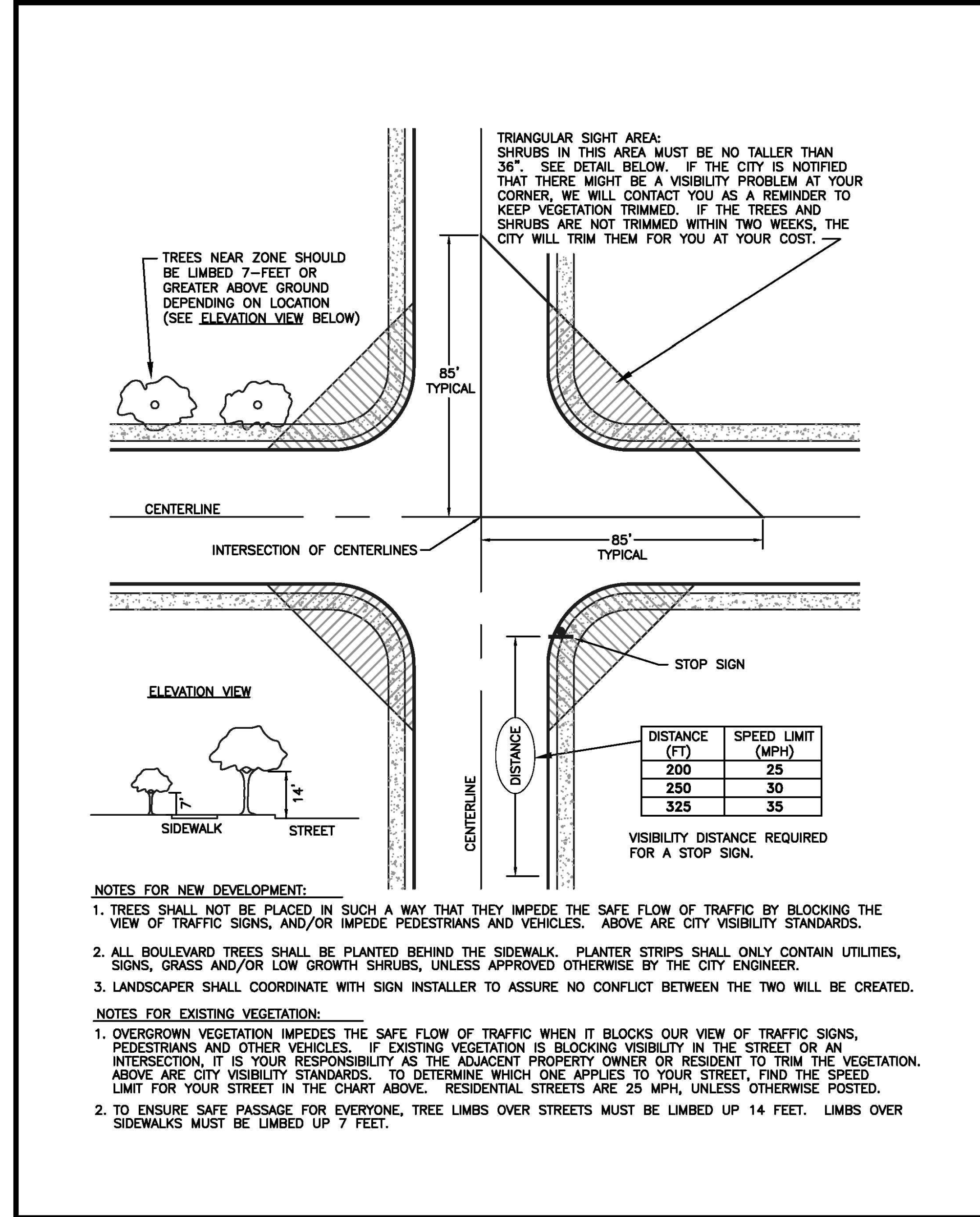
8 of 25 Sheets



1 WSDOT MOUNTABLE CURB NOT TO SCALE



2 C-CURB DETAIL NOT TO SCALE



- NOTES FOR NEW DEVELOPMENT:**
- TREES SHALL NOT BE PLACED IN SUCH A WAY THAT THEY IMPEDE THE SAFE FLOW OF TRAFFIC BY BLOCKING THE VIEW OF TRAFFIC SIGNS, AND/OR IMPEDE PEDESTRIANS AND VEHICLES. ABOVE ARE CITY VISIBILITY STANDARDS.
 - ALL BOULEVARD TREES SHALL BE PLANTED BEHIND THE SIDEWALK. PLANTER STRIPS SHALL ONLY CONTAIN UTILITIES, SIGNS, GRASS AND/OR LOW GROWTH SHRUBS, UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
 - LANDSCAPER SHALL COORDINATE WITH SIGN INSTALLER TO ASSURE NO CONFLICT BETWEEN THE TWO WILL BE CREATED.
- NOTES FOR EXISTING VEGETATION:**
- OVERGROWN VEGETATION IMPEDES THE SAFE FLOW OF TRAFFIC WHEN IT BLOCKS OUR VIEW OF TRAFFIC SIGNS, PEDESTRIANS AND OTHER VEHICLES. IF EXISTING VEGETATION IS BLOCKING VISIBILITY IN THE STREET OR AN INTERSECTION, IT IS YOUR RESPONSIBILITY AS THE ADJACENT PROPERTY OWNER OR RESIDENT TO TRIM THE VEGETATION. ABOVE ARE CITY VISIBILITY STANDARDS. TO DETERMINE WHICH ONE APPLIES TO YOUR STREET, FIND THE SPEED LIMIT FOR YOUR STREET IN THE CHART ABOVE. RESIDENTIAL STREETS ARE 25 MPH, UNLESS OTHERWISE POSTED.
 - TO ENSURE SAFE PASSAGE FOR EVERYONE, TREE LIMBS OVER STREETS MUST BE LIMBED UP 14 FEET. LIMBS OVER SIDEWALKS MUST BE LIMBED UP 7 FEET.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and
PUBLIC WORKS DEPARTMENTS

APPROACH SIGHT DISTANCE

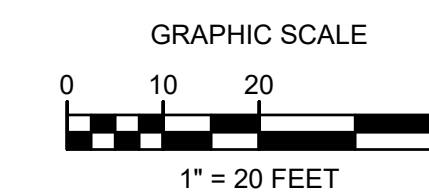
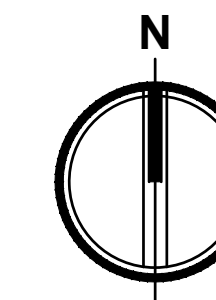
DRAWN BY JIM ERWIN-SVORODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX	CITY STANDARD
FILE NAME F:\DWG\COMMON\STDS\CITY\200901_STR\01.0101.01.11	DATE APPROVED 07/01/2009	DATE REVISED XX/XX/XX	SCALE 1:40	01.01.11

3 APPROACH SIGHT DISTANCE NOT TO SCALE



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 *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 11/20/2024

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



TACOMA · SEATTLE · SPOKANE · TRI-CITIES

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
10/8/2024



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**City of Puyallup
Development & Permitting Services
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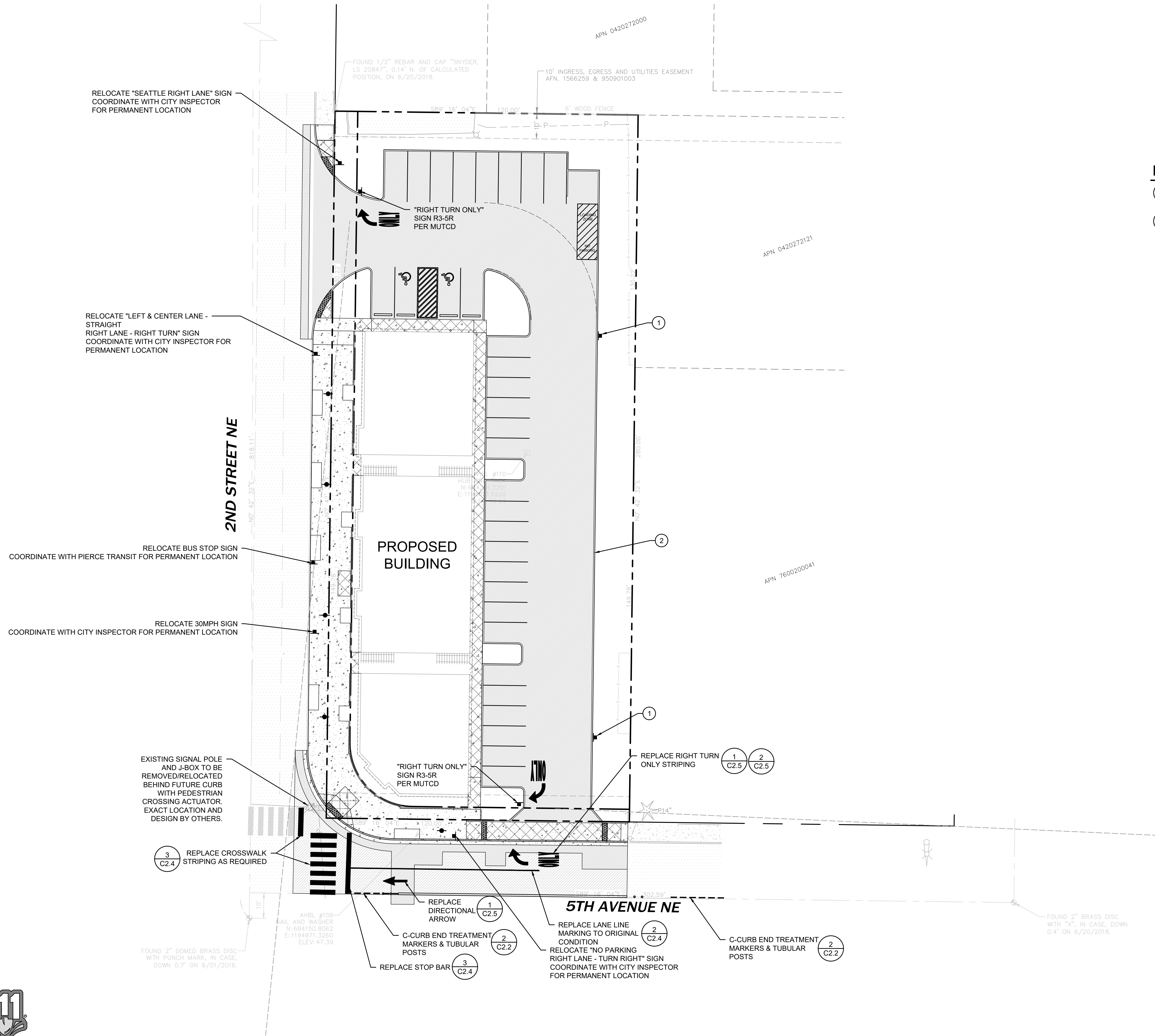
Building	Planning
Engineering	Public Works
Fire	Traffic

Revisions:

Sheet Title:
CHANNELIZATION PLAN

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

Sheet No.
C2.3
9 of 25 Sheets



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



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CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

APPROVED

BY: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

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**City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

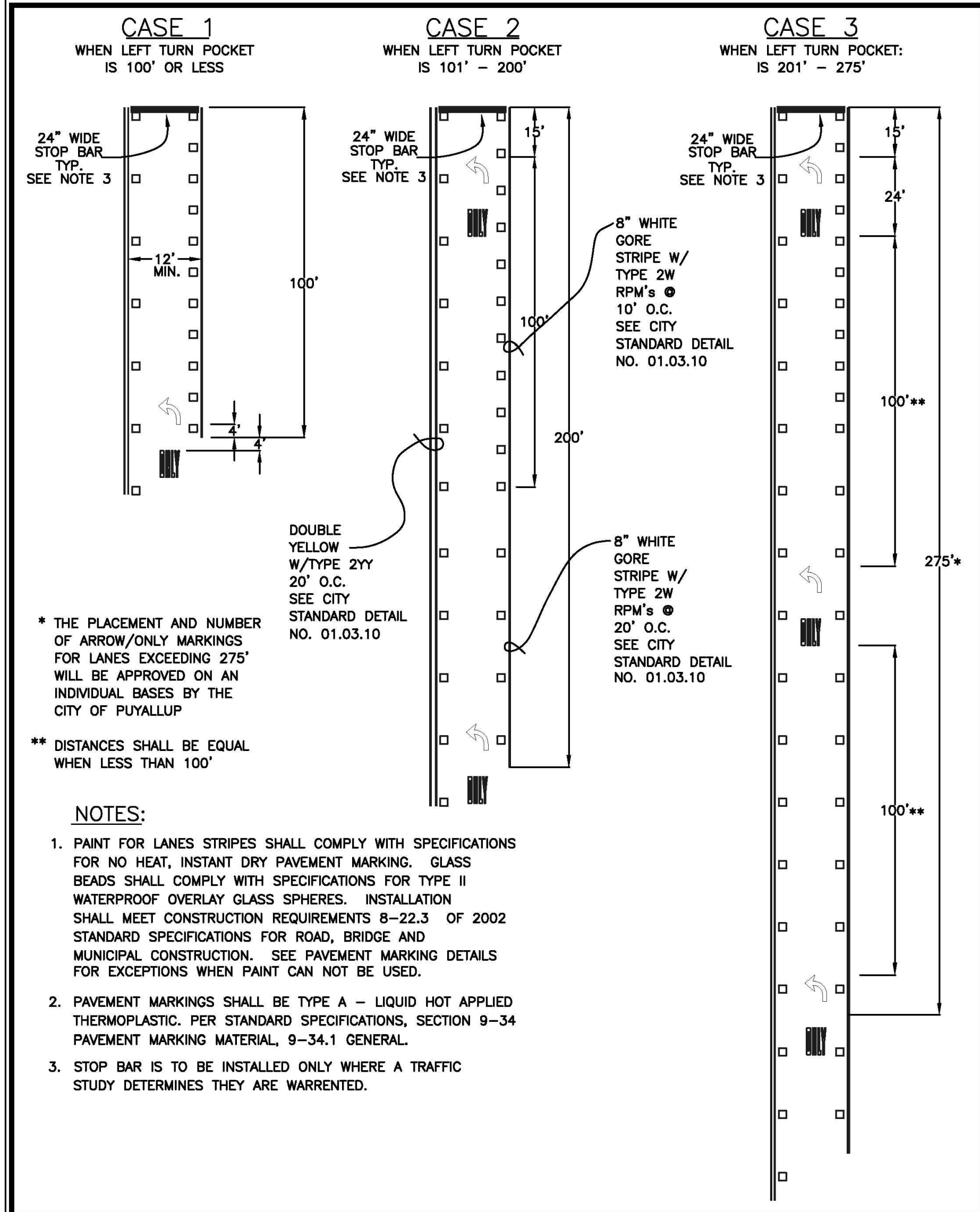
Revisions:

Sheet Title:

CHANNELIZATION NOTES AND DETAILS

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

Sheet No.
C2.4
10 of 25 Sheets

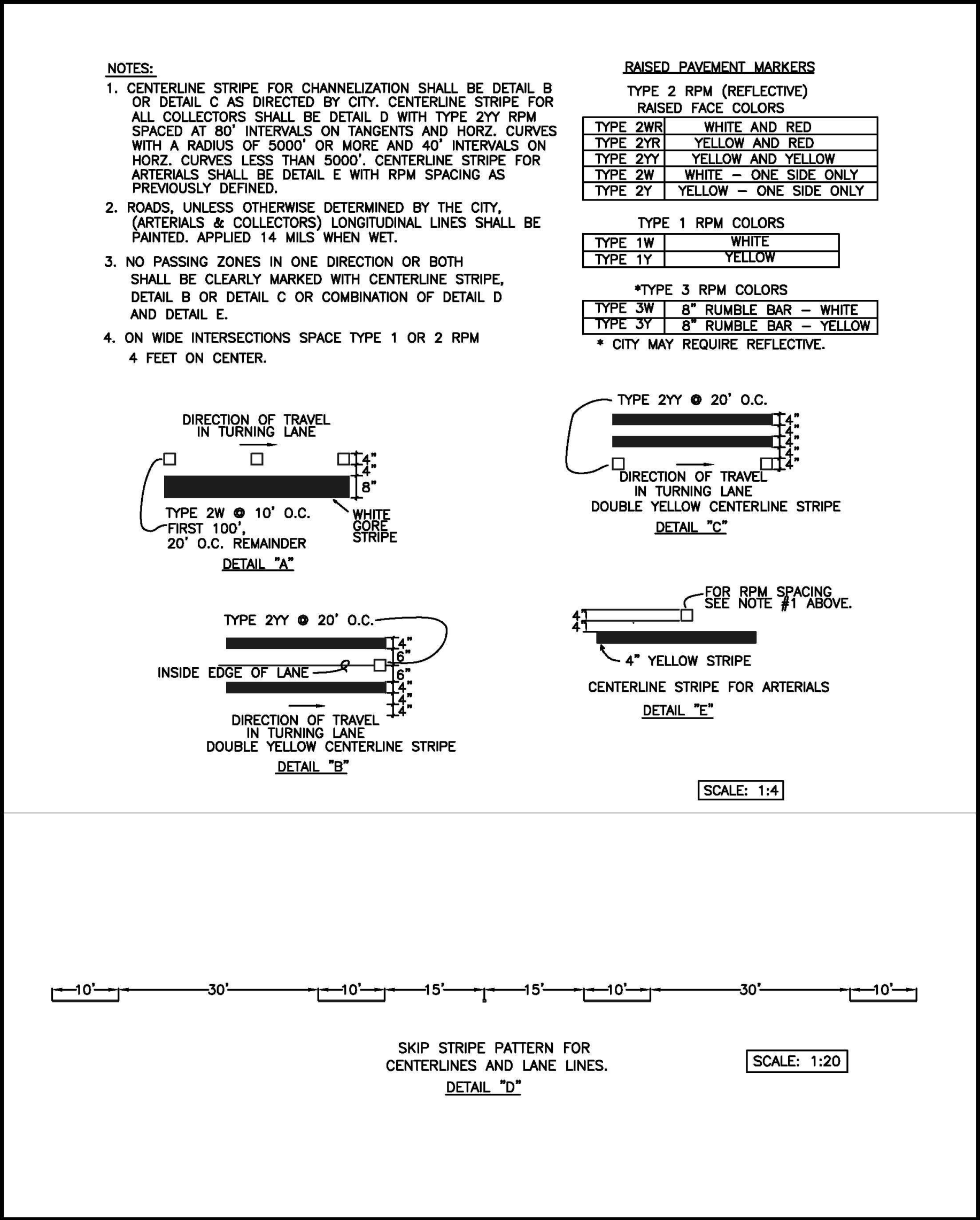


CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and
PUBLIC WORKS DEPARTMENTS

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

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_STR01.03\01.03.06	DATE APPROVED: 07/01/2009	DATE REVISED: 09/11/2013	SCALE: 1/4"	01.03.06

1 TURN POCKET MARKING
NOT TO SCALE

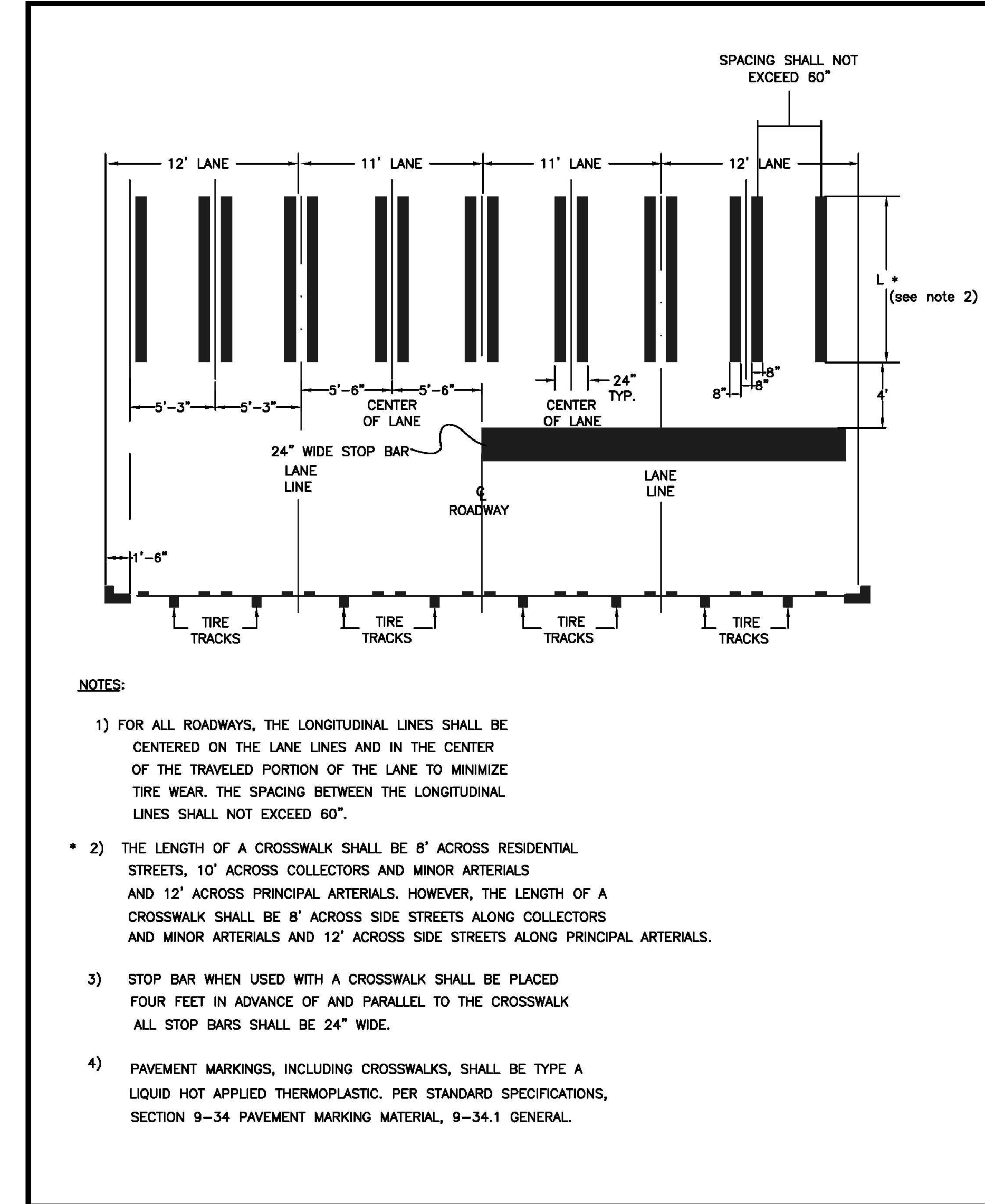


CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and
PUBLIC WORKS DEPARTMENTS

PAVEMENT MARKING DETAILS

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\2009\01_STR01.03\01.03.10	DATE APPROVED: 07/01/2009	DATE REVISED: XXXXXX	SCALE: VARIES	01.03.10

2 PAVEMENT MARKING DETAILS
NOT TO SCALE



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and
PUBLIC WORKS DEPARTMENTS

CROSSWALK DETAIL

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_STR01.03\01.03.11	DATE APPROVED: 07/01/2009	DATE REVISED: 09/11/2013	SCALE: 1/4"	01.03.11

3 CROSSWALK DETAIL
NOT TO SCALE



PUYALLUP 2ND STREET APARTMENTS

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CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

APPROVED

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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

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Client:
SPP MANUFACTURING

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

Project No.
2190606.10

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10/8/2024



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**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

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 PAVEMENT MARKING MATERIAL, 9-34.1 GENERAL.

CITY OF PUYALLUP	PAVEMENT ARROWS			CITY STANDARD
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	DRAWN BY: JIM ERWIN-SVORODA FILE NAME: F:\DWG\CORPORATE\STDS\CITY\2009\01_STR01.03.14	CHECKED BY: LINDA LIAN DATE APPROVED: 07/01/2009	APPROVED BY: COLLEEN HARRIS DATE REVISION: 06/11/2013	REVISION BY: LINDA LIAN SCALE: 1/4 01.03.14

PAVEMENT MARKER "ONLY"

NOTE: 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.

CITY OF PUYALLUP	PAVEMENT MARKER "ONLY"			CITY STANDARD
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	DRAWN BY: JIM ERWIN-SVORODA FILE NAME: F:\DWG\CORPORATE\STDS\CITY\2009\01_STR01.03.15	CHECKED BY: LINDA LIAN DATE APPROVED: 07/01/2009	APPROVED BY: COLLEEN HARRIS DATE REVISION: 06/11/2013	REVISION BY: LINDA LIAN SCALE: 1/2 01.03.15

STREET SIGN DETAIL

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

CITY OF PUYALLUP	STREET SIGN DETAIL			CITY STANDARD
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	DRAWN BY: JIM ERWIN-SVORODA FILE NAME: F:\DWG\CORPORATE\STDS\CITY\2009\01_STR01.04.01	CHECKED BY: LINDA LIAN DATE APPROVED: 07/01/2009	APPROVED BY: COLLEEN HARRIS DATE REVISION: XXX/XXX/XX	REVISION BY: LINDA LIAN SCALE: 1/1 01.04.01

1 PAVEMENT ARROWS
NOT TO SCALE

2 PAVEMENT MARKER "ONLY"
NOT TO SCALE

3 STREET SIGN DETAIL
NOT TO SCALE

Revisions:

Sheet Title:

CHANNELIZATION NOTES AND DETAILS

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

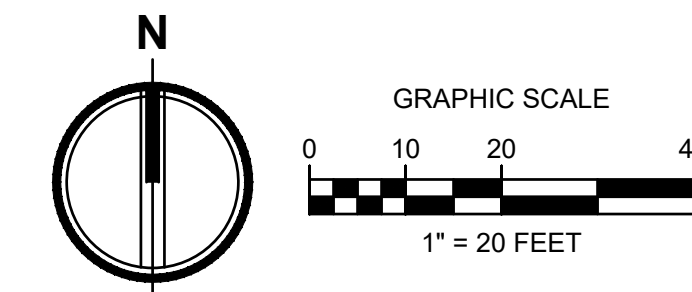
Sheet No.
C2.5
11 of 25 Sheets



PUYALLUP 2ND STREET APARTMENTS

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CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON.

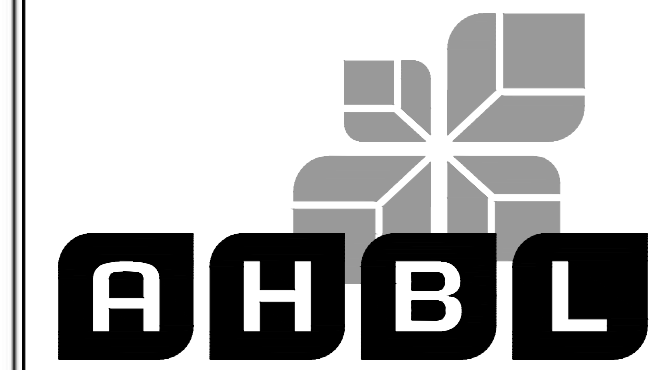


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BY *[Signature]*
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DEVELOPMENT ENGINEERING

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

Project No.

2190606.10

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SITE DEVELOPMENT PERMIT SET

10/8/2024



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**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Revisions:

Sheet Title:

GRADING AND DRAINAGE PLAN

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

Sheet No.

C3.0

12 of 25 Sheets

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)
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" S)
SDCB #6 N 684269.15 E 1195025.21	RIM = 45.22 IE = 41.00 (12" E) IE = 41.00 (12" N) IE = 41.50 (6" W)
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)
SDCB #10 N 684432.07 E 1194928.92	RIM = 45.30 IE = 43.09 (8" SW) IE = 43.09 (8" E)

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, FOR INFILTRATING RUNOFF FROM THE SITES EAST SLOPE
- ▨ PERMEABLE CONCRETE
- ▩ CONCRETE
- ▭ ASPHALT

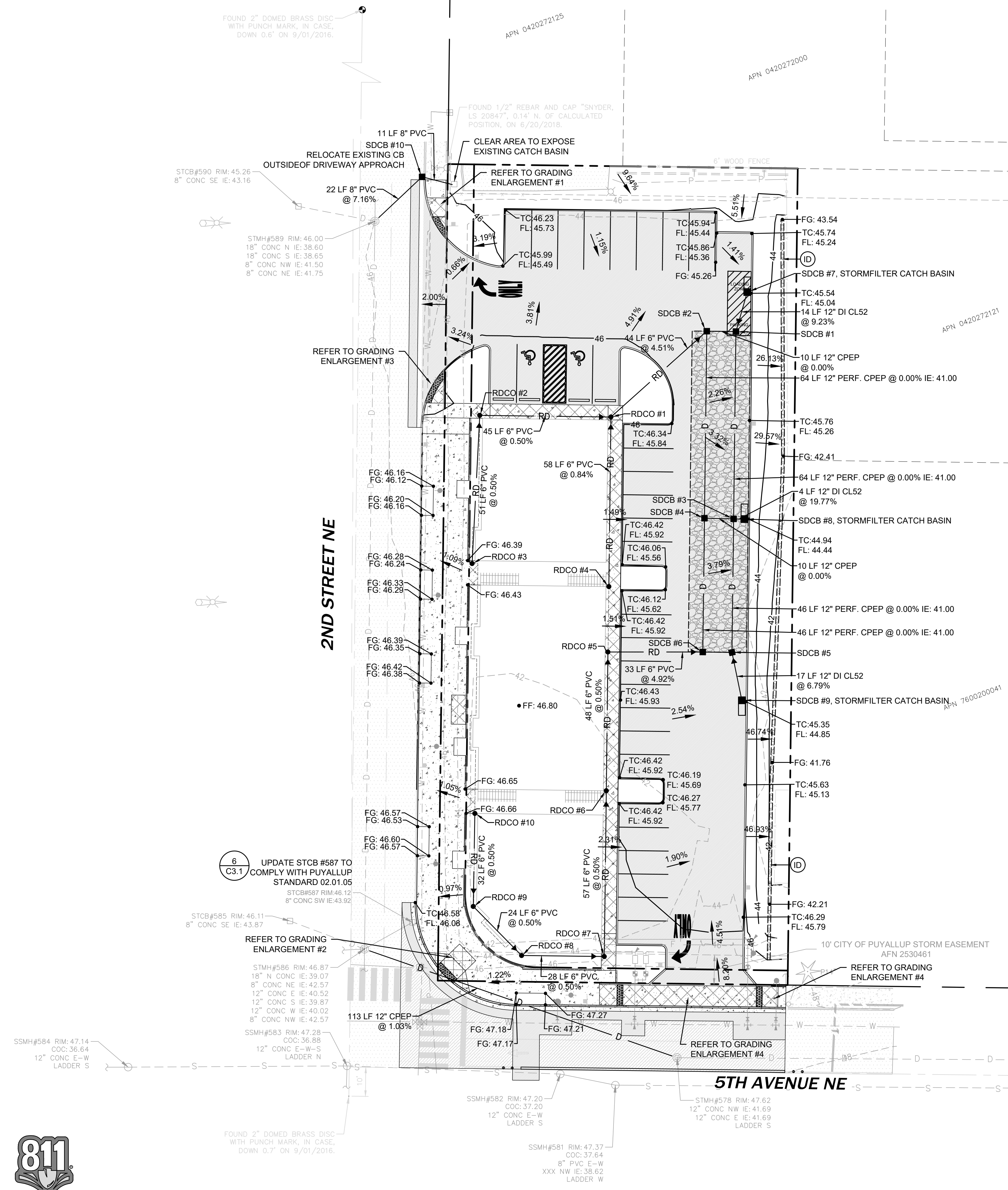
GENERAL NOTES

1. CONTRACTOR SHALL CONTACT UTILITY PURVEYORS PRIOR TO CONSTRUCTION.
2. FOR BEDDING AND BACKFILL SEE CITY STD NO. 06.01.01 ON SHEET C3.2.
3. SEE STORMWATER NOTES ON SHEET C3.2.
4. FOR STORM CLEANOUT, SEE DETAIL 3, SHEET C3.1.
5. ALL STORM DRAINS SHALL HAVE "NO DUMPING, DRAINS TO RIVER" STENCILED ADJACENT TO THEM. MARKINGS TO BE PRE-CUT 90ML TORCH DOWN HEAVY-DUTY, INTERSECTION GRADE PREFORMED THERMOPLASTIC PAVEMENT MARKING MATERIAL.
6. 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 = 30 CUBIC YARDS
FILL = 3,490 CUBIC YARDS
NET = 3,460 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.



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: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 11/20/2024

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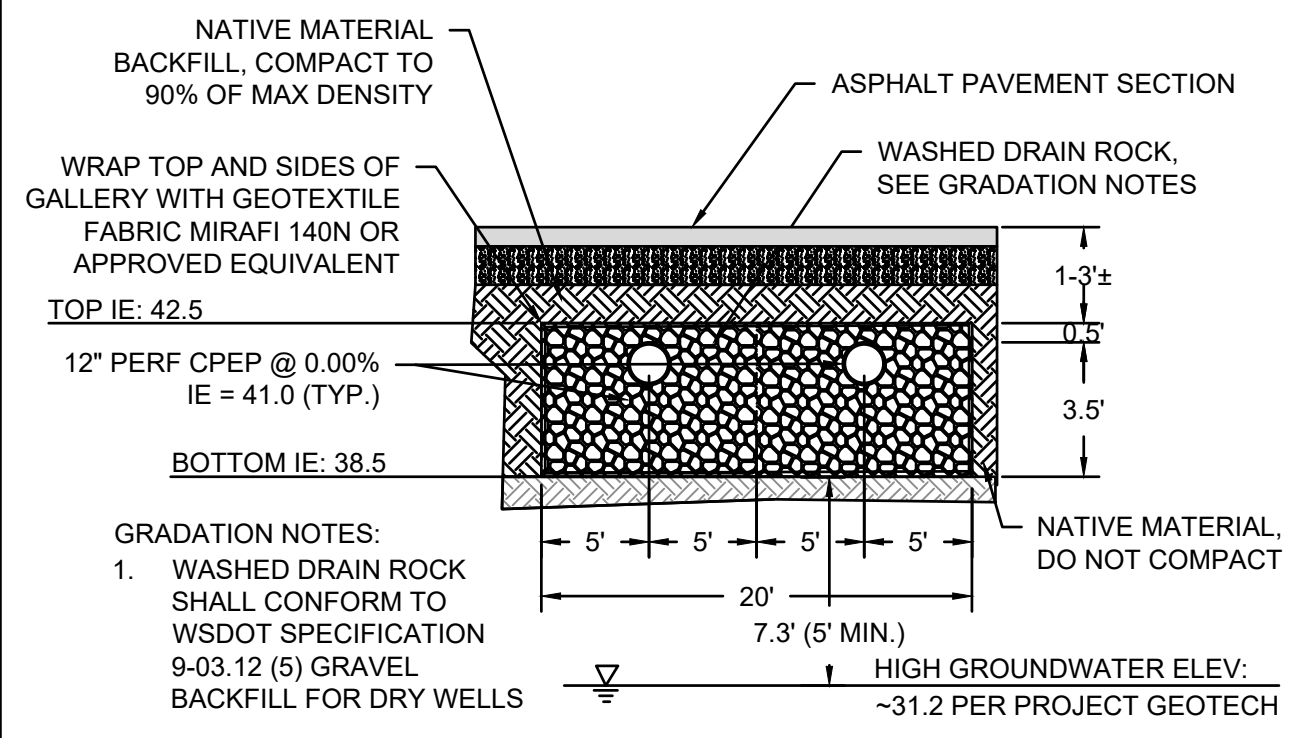
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SITE DEVELOPMENT PERMIT SET
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City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

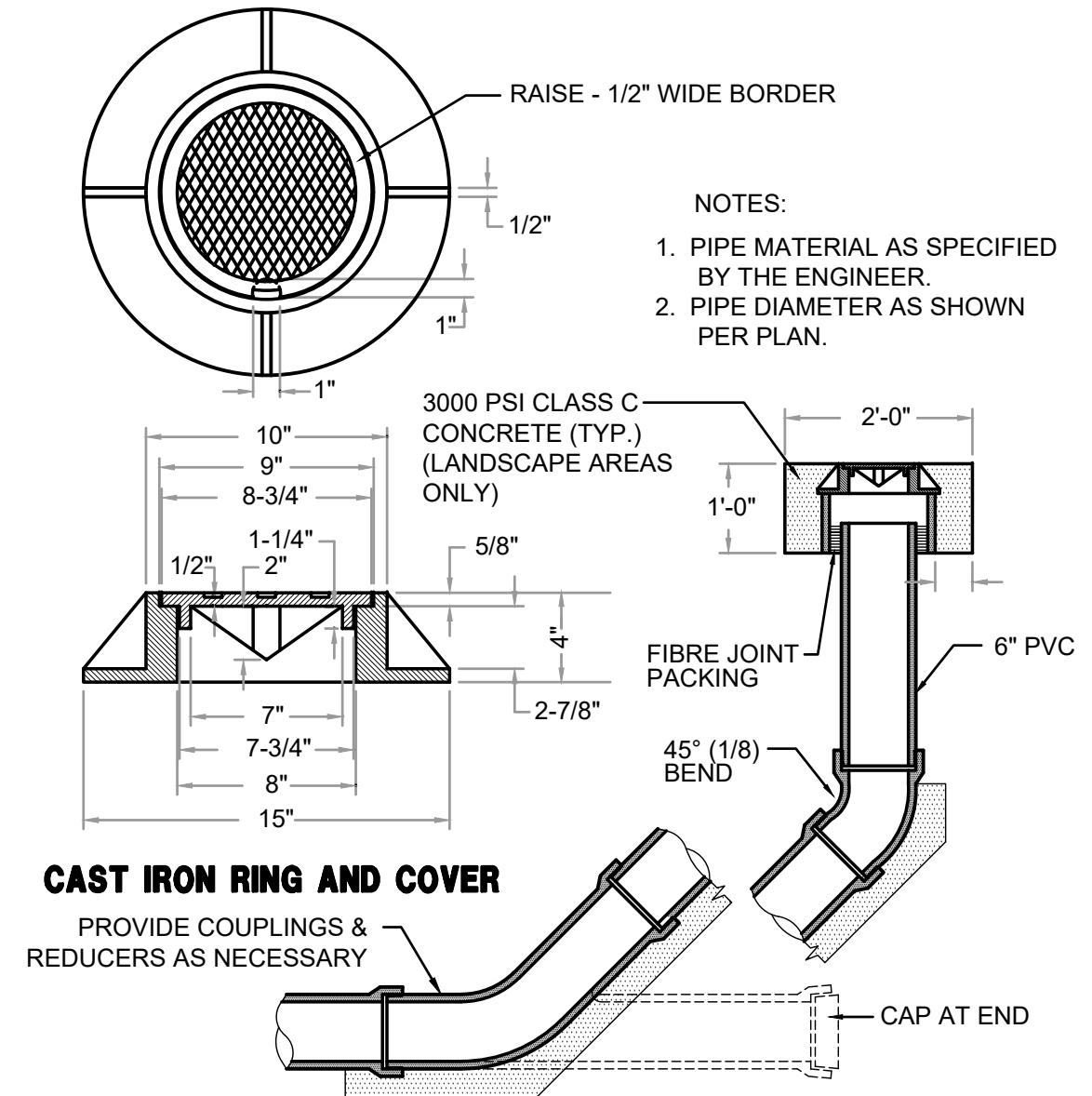


GRADATION NOTES:
1. WASHED DRAIN ROCK SHALL CONFORM TO WSDOT SPECIFICATION 9-03.12 (5) GRAVEL BACKFILL FOR DRY WELLS

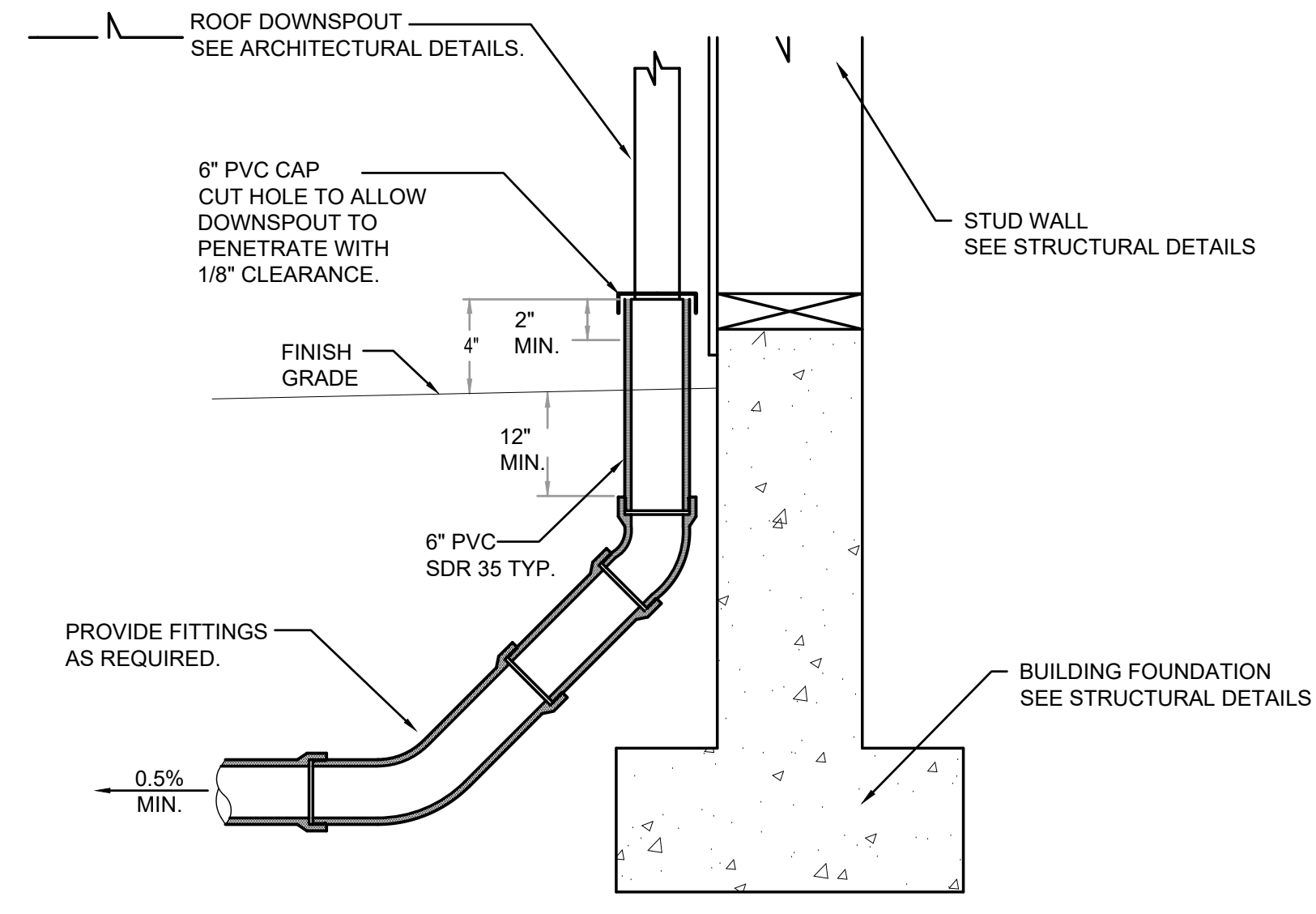
PROTECTION:
EXCAVATE INFILTRATION TRENCHES TO FINAL GRADE ONLY AFTER ALL DISTURBED AREAS IN THE UPGRADE PROJECT DRAINAGE AREA HAVE BEEN PERMANENTLY STABILIZED. THE SIDEWALLS AND BOTTOM OF THE INFILTRATION FACILITY EXCAVATION SHALL BE RAKED OR SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES AFTER FINAL EXCAVATION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

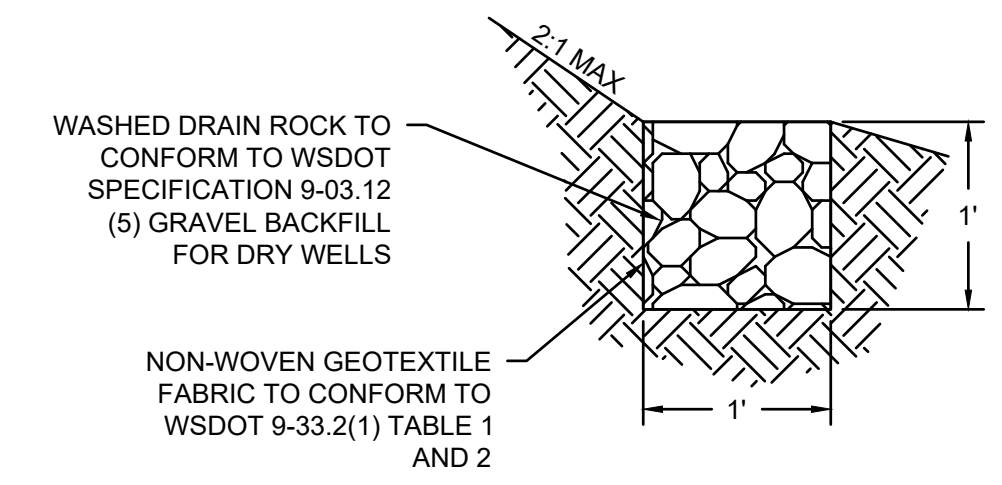
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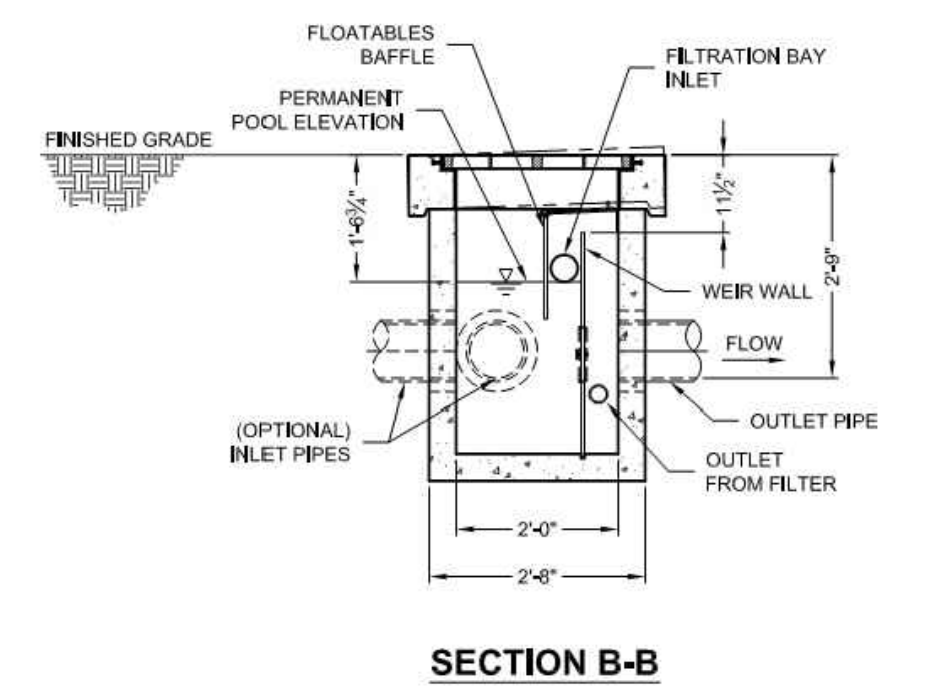
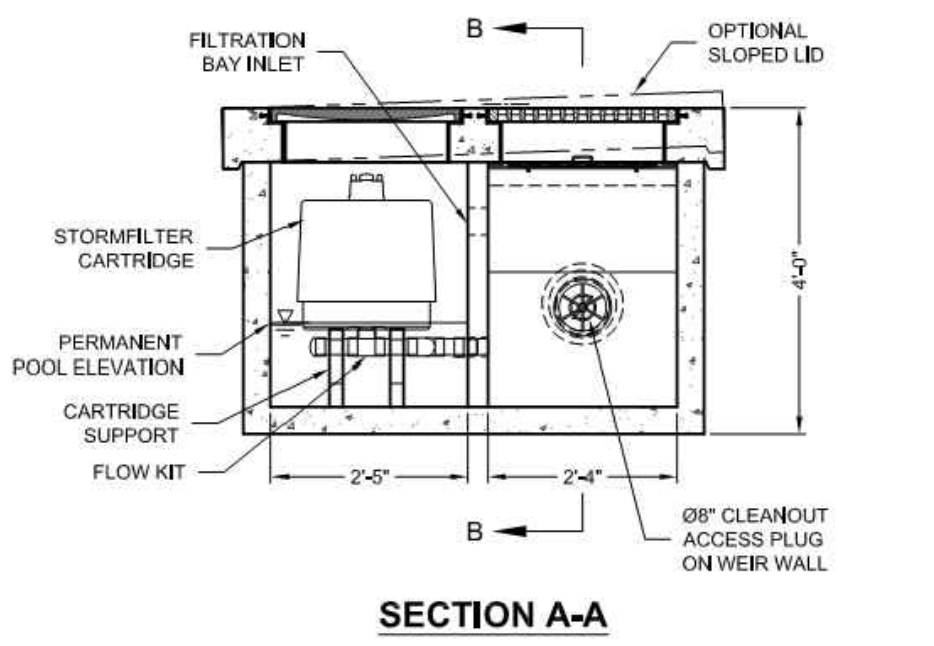
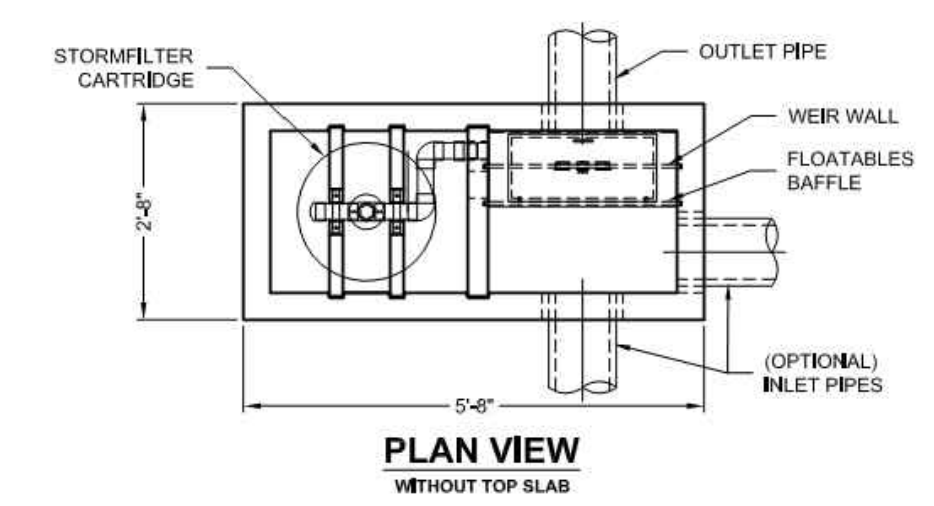
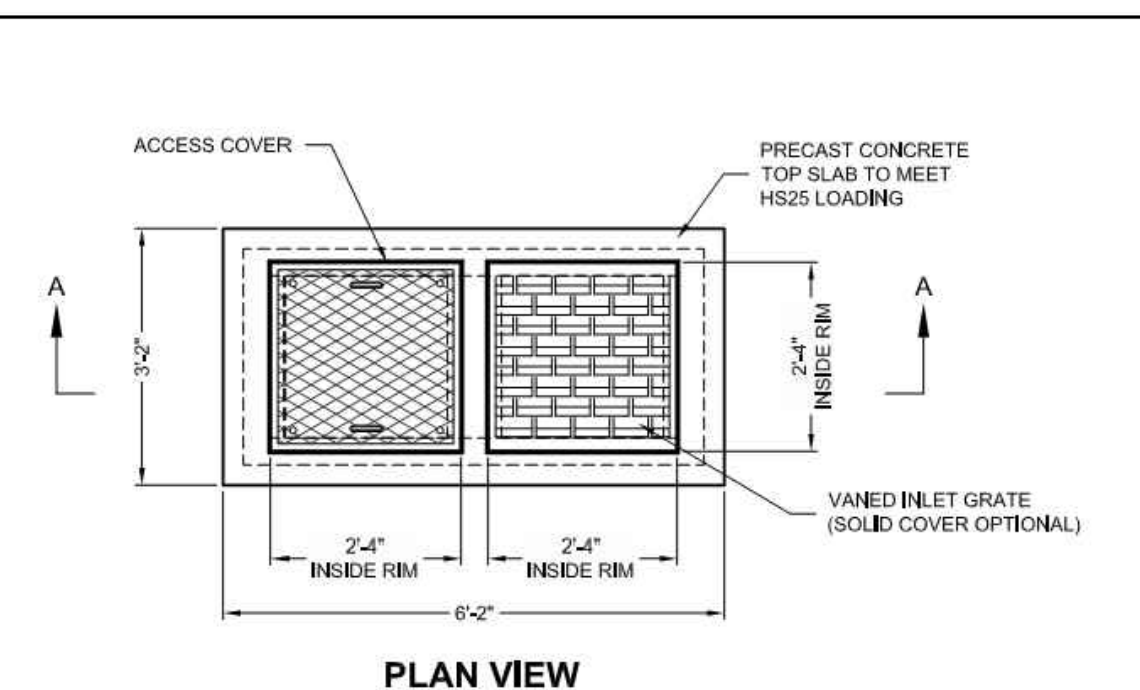
2 STORM CLEANOUT
NOT TO SCALE



3 DOWNSPOUT CONNECTION
NOT TO SCALE



4 INFILTRATION DITCH
NOT TO SCALE



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 SELECTION	27"			18"			18" DEEP		
	RECOMMENDED HYDRAULIC DROP (H)	2.3'	3.0'	2.3'	3.0'	3.5'	2.3'	3.0'	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	18.75	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
INLET PERMANENT POOL LEVEL (A)	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"	1'-7"
OVERALL STRUCTURE HEIGHT (B)	5'-0"	5'-0"	5'-0"	4'-0"	4'-0"	4'-0"	5'-0"	5'-0"	5'-0"

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

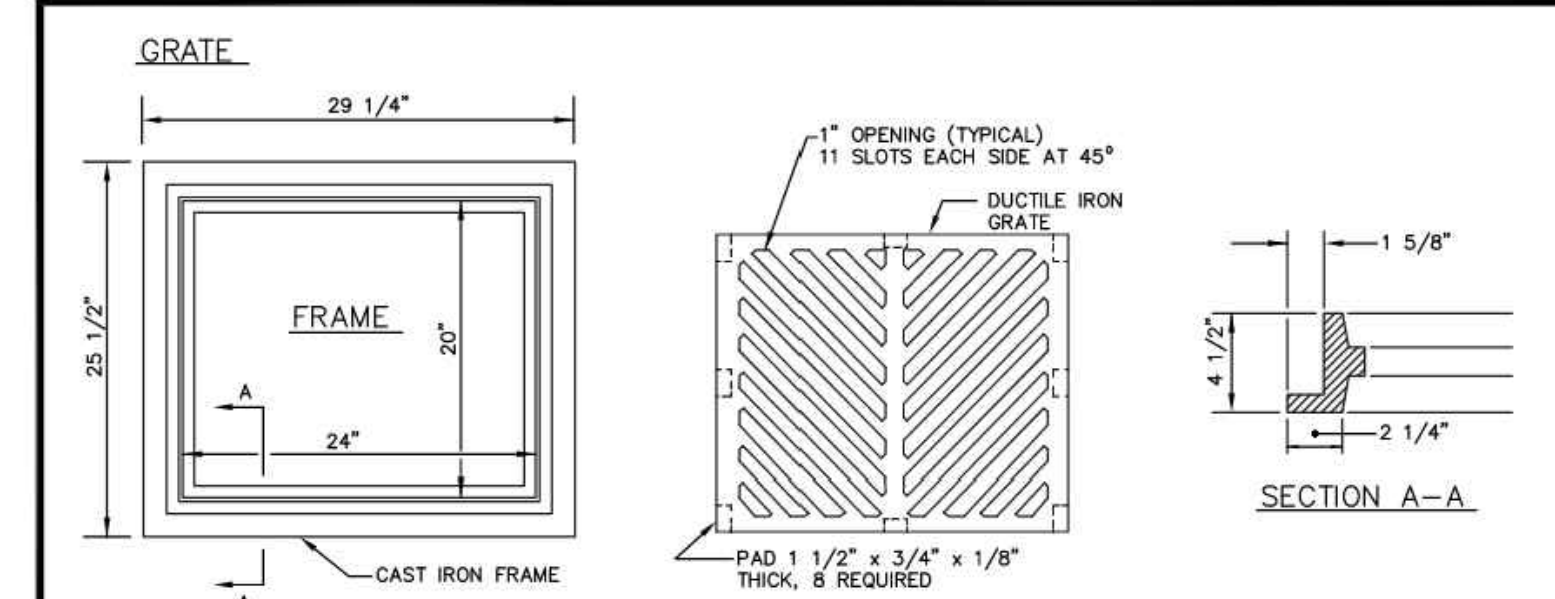
GENERAL NOTES:
1. CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. STORMFILTER CATCHBASIN WATER QUALITY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

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

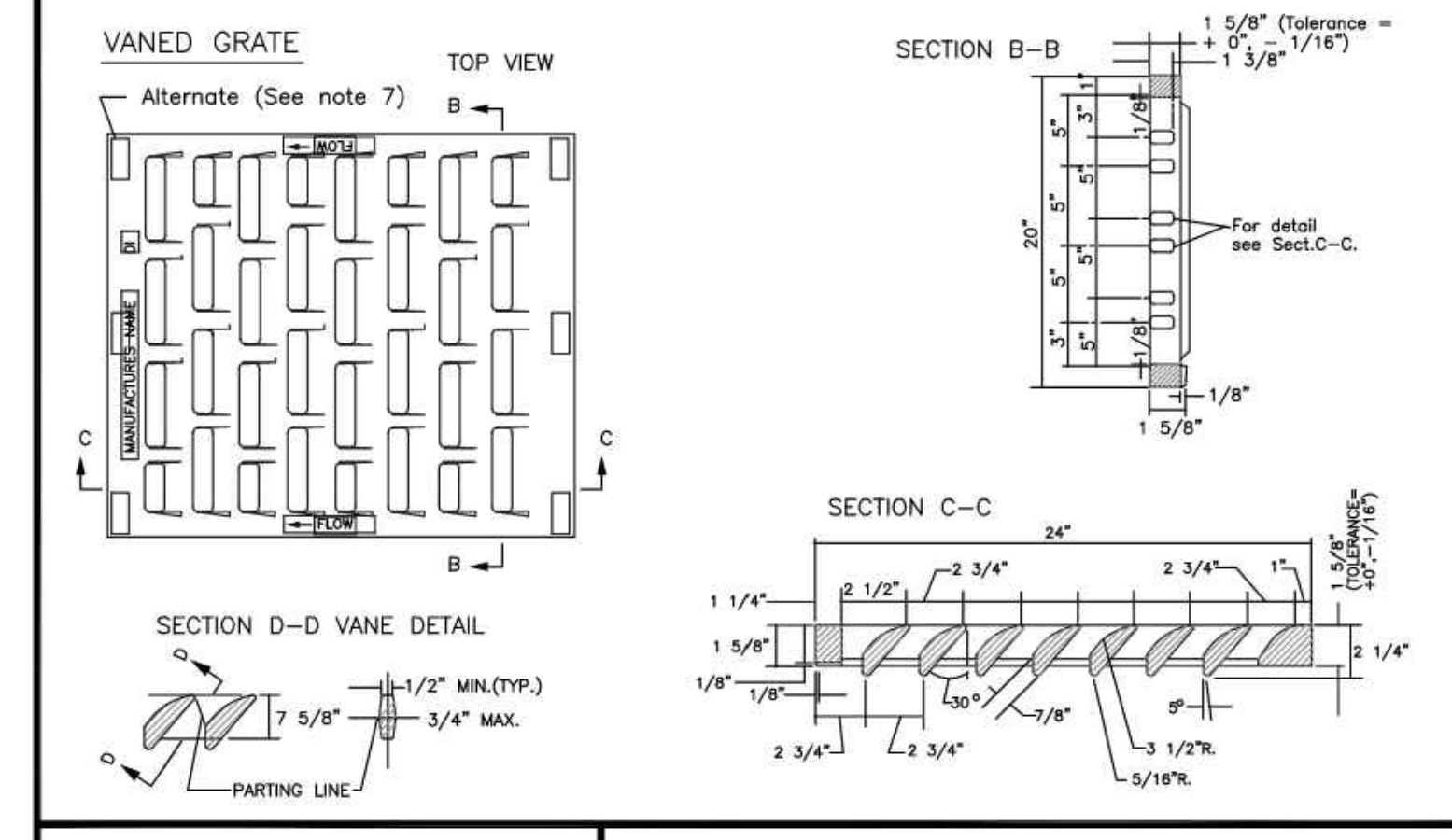
1-CARTRIDGE CATCHBASIN STORMFILTER DATA

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	INLET, OUTLET, INLET
SLOPED LID	YES/NO
SOLID COVER	YES/NO
NOTES/SPECIAL REQUIREMENTS:	

1 CARTRIDGE CONCRETE CATCHBASIN STORMFILTER STANDARD DETAIL



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



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

CATCH BASIN FRAME AND GRATE/VANED GRATE

DESIGNED BY: LINDA LANNING	CHECKED BY: COLLEEN BARBER	APPROVED BY: LINDA LANNING	CITY STANDARD
FILE NAME: C:\CONTECH\ENGINEERING\CITY\2190606\SH-STRM-DETL.dwg	DATE APPROVED: 10/11/2024	DATE REVISION: 11/20/2024	SCALE: 1/8" = 1'-0"



5 STORMFILTER
NOT TO SCALE

6 CATCH BASIN FRAME AND GRATE
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 25 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 *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 11/20/2024

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



Project Title:

PUYALLUP 2ND STREET APARTMENTS

Client:
SPP MANUFACTURING

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

Project No.
2190606.10

SITE DEVELOPMENT PERMIT SET

10/8/2024



NOTICE: ALTERATION OF THIS DOCUMENT SHALL INVALIDATE THE PROFESSIONAL SEAL AND SIGNATURE. PUBLICATION OF THIS DOCUMENT DOES NOT WARRANT THAT THE ENGINEER HAS BEEN ADVISED OF ANY CHANGES TO THE PROJECT. THE ENGINEER IS NOT RESPONSIBLE FOR ANY CHANGES TO THE PROJECT OR FOR ANY OTHER PROJECT.

**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Revisions:

Sheet Title:

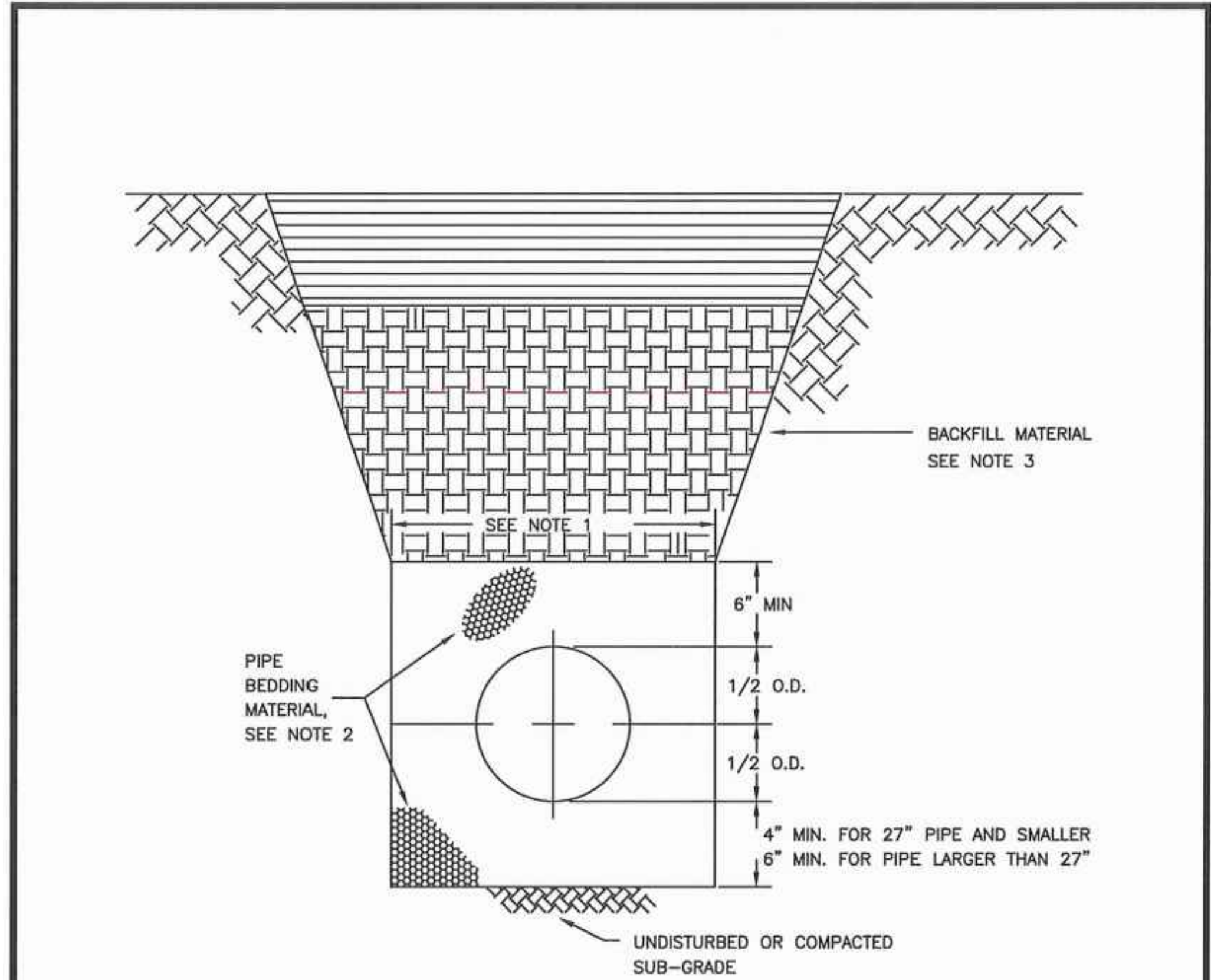
DRAINAGE NOTES AND DETAILS

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

Sheet No.

C3.2

14 of 25 Sheets



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.

<p>CITY OF PUYALLUP OFFICE of THE CITY ENGINEER</p>	PIPE TRENCHING BEDDING AND BACKFILL				CITY STANDARD 06.01.01
	DRAWN BY JM ERWIN-SVOBODA	CHECKED BY TED HILL	APPROVED BY MARK PALMER	REVISED BY V STOCKMAN	
DATE SEAL: 2/1/17	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

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: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 11/20/2024

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



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
10/8/2024



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City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

DRAFT REVISION DATE: 06/04/2018

PLAN VIEW

SECTION A-A STANDARD SECTION

SECTION A-A AT DRIVEWAYS AND INTERSECTIONS

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 RAMPS SHALL BE CONSTRUCTED AT INTERSECTIONS USING A DESIGN PREPARED BY A LICENSED PROFESSIONAL ENGINEER. WHEN A RAMP DESIGN FAILS TO MEET ALL APPLICABLE DESIGN STANDARDS, THE ENGINEER SHALL DOCUMENT WHY THE PROPOSED RAMP ACHIEVES DESIGN STANDARDS TO THE MAXIMUM EXTENT FEASIBLE.
- 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%.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER

APPROVED FOR PUBLICATION

PROFESSIONAL ENGINEER

SIDEWALK WITHOUT PLANTING STRIP (PERMEABLE OPTION)

(NOT TO SCALE)

CITY STANDARD
01.02.01A

1 SIDEWALK WITHOUT PLANTING STRIP
NOT TO SCALE

SECTION

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

*"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.

PRODUCT #	HEIGHT	LENGTH
UB 24-2	2'	2'

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

ROOT BARRIER DETAIL

DRAWN BY: JIM ERWIN-SVOBODA	CHECKED BY: CHRIS BEALE	APPROVED BY: COLLEEN HARRIS	REVISED BY: LINDA LIAN	CITY STANDARD
FILE NAME: P:\DWG\CAD\COMMON\STD\STDCITY\2009\01_STR01.02.01.02.03	DATE APPROVED: 07/01/2009	DATE REVISED: 06/01/2015	SCALE: 1/2"	01.02.03

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

2 ROOT BARRIER DETAIL
NOT TO SCALE

SECTION VIEW A - A

NOTES:

- ADA COMPLIANT TREE GRATE WHEN REQUIRED BY THE BY THE PLANNING DEPARTMENT
- PROPERTY LINE
- 8'(FT) MINIMUM
- 2% MAX. SLOPE
- 4" MIN.
- NOTE: 48" MINIMUM CLEAR WIDTH SHALL BE MEASURED EXCLUSIVE OF THE CURB WIDTH

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STREET TREE PLANTER BLOCKOUTS FOR SIDEWALKS

DRAWN BY: JIM ERWIN-SVOBODA	CHECKED BY: LINDA LIAN	APPROVED BY: COLLEEN HARRIS	REVISED BY: LINDA LIAN	CITY STANDARD
FILE NAME: P:\DWG\CAD\COMMON\STD\STDCITY\2009\01_STR01.02.01.02.04	DATE APPROVED: 07/01/2009	DATE REVISED: 03/21/11	SCALE: 1/4"	01.02.04

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

3 STREET TREE PLANTER BLOCKOUTS FOR SIDEWALKS
NOT TO SCALE

Revisions:

Sheet Title:

DRAINAGE NOTES AND DETAILS

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

Sheet No.

C3.3

15 of 25 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 *Jim Erwin*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 11/20/2024

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



Project Title:

PUYALLUP 2ND STREET APARTMENTS

Client:
SPP MANUFACTURING

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

Project No.
2190606.10

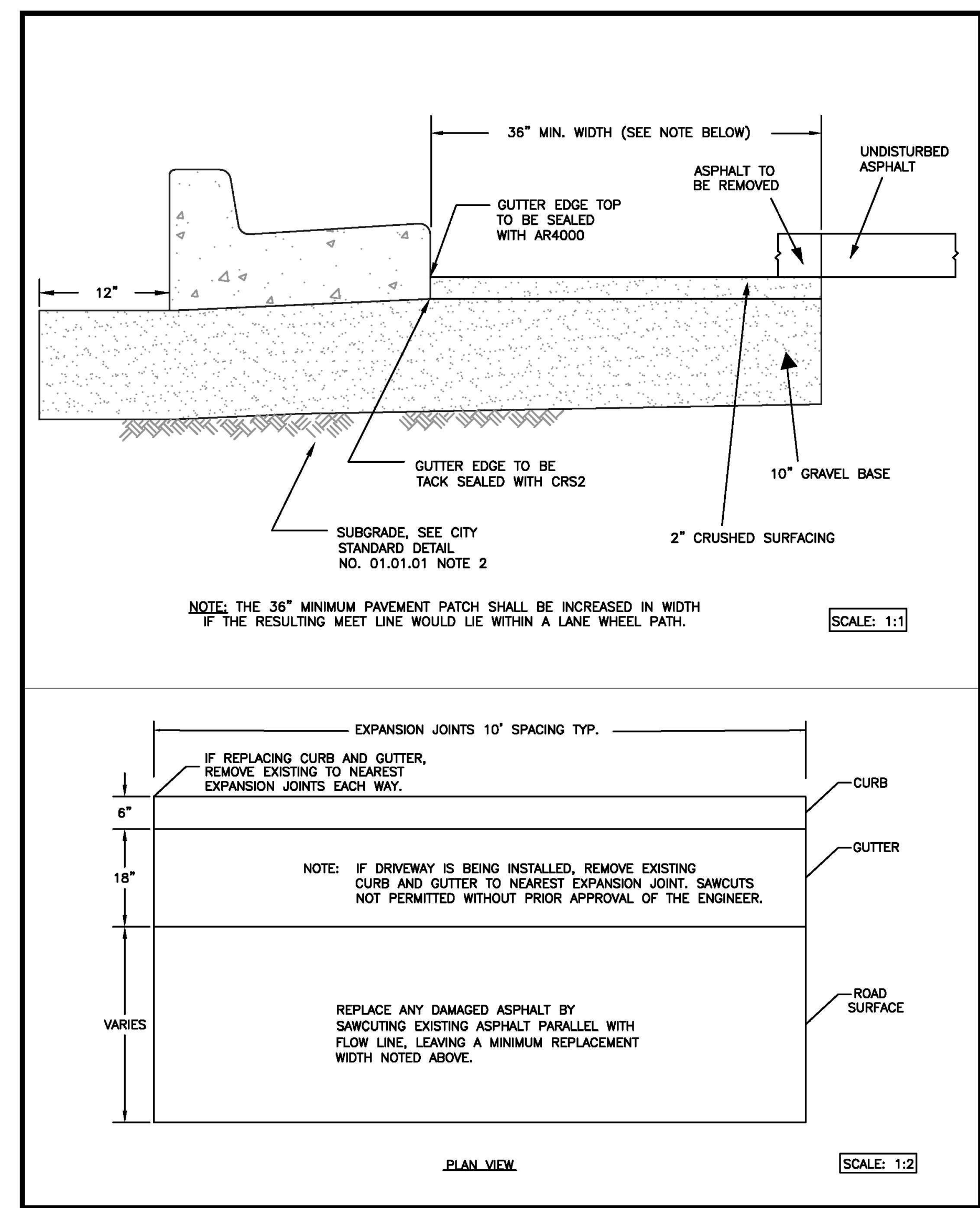
Issue Set & Date:
SITE DEVELOPMENT PERMIT SET
10/8/2024



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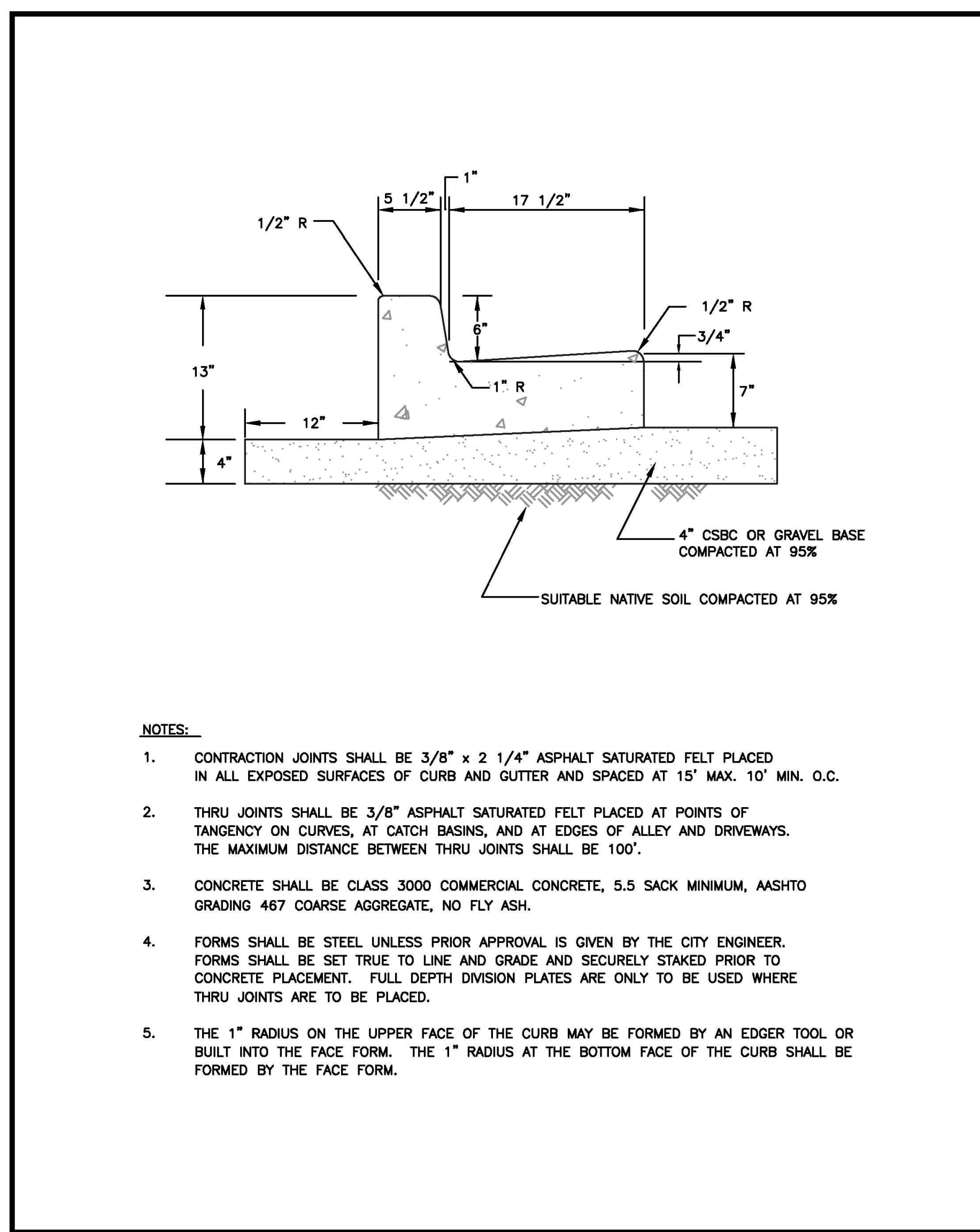
**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



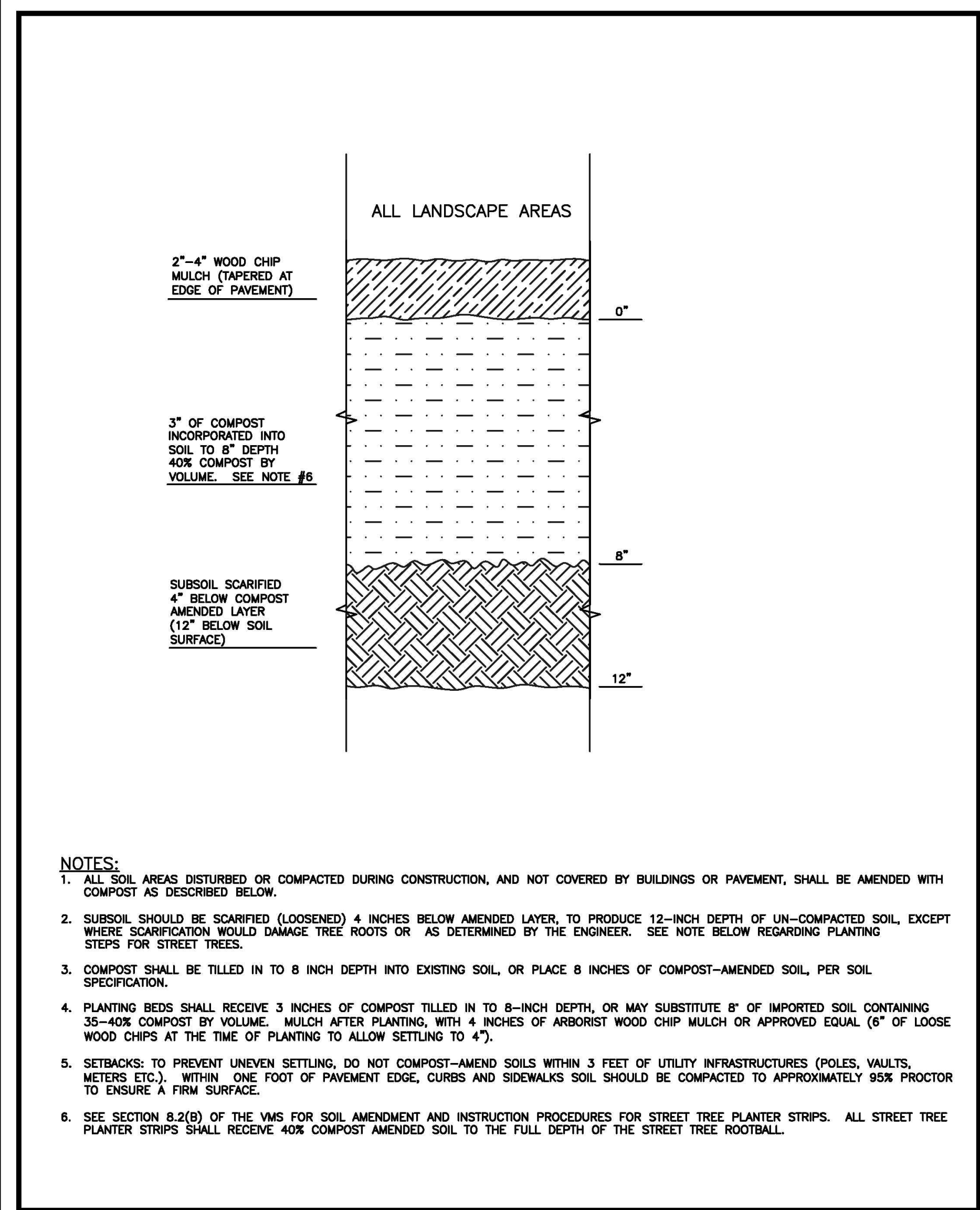
CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	CURB CUT			
	DRAWN BY JIM ERWIN-SVOBODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISIONS XXXX
FILE NAME F:\DWG\COMMON\STDS\CITY\STR01_02.01.02.09	DATE APPROVED 07/01/2009	DATE REVISION 05/23/12	SCALE 1:1	CITY STANDARD 01.02.10

3 CURB CUT
NOT TO SCALE



CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	CURB AND GUTTER			
	DRAWN BY JIM ERWIN-SVOBODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISIONS XXXX
FILE NAME F:\DWG\COMMON\STDS\CITY\STR01_02.01.02.09	DATE APPROVED 07/01/2009	DATE REVISION 05/23/12	SCALE 1:1	CITY STANDARD 01.02.09

2 CURB AND GUTTER
NOT TO SCALE



CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	SOIL AMENDMENT AND DEPTH			
	DRAWN BY LINDA LIAN	CHECKED BY CHRIS BEALE	APPROVED BY COLLEEN HARRIS	REVISIONS XXXX
FILE NAME F:\DWG\COMMON\STDS\CITY\STR01_02.01.02.08	DATE APPROVED 08/01/2015	DATE REVISION XX/XX/XX	SCALE 1:1	CITY STANDARD 01.02.08a

1 SOIL AMENDMENT AND DEPTH
NOT TO SCALE



DRAINAGE NOTES AND DETAILS

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

Sheet No.
C3.4
16 of 25 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 *Jim Erwin*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 11/20/2024

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PUYALLUP 2ND STREET APARTMENTS

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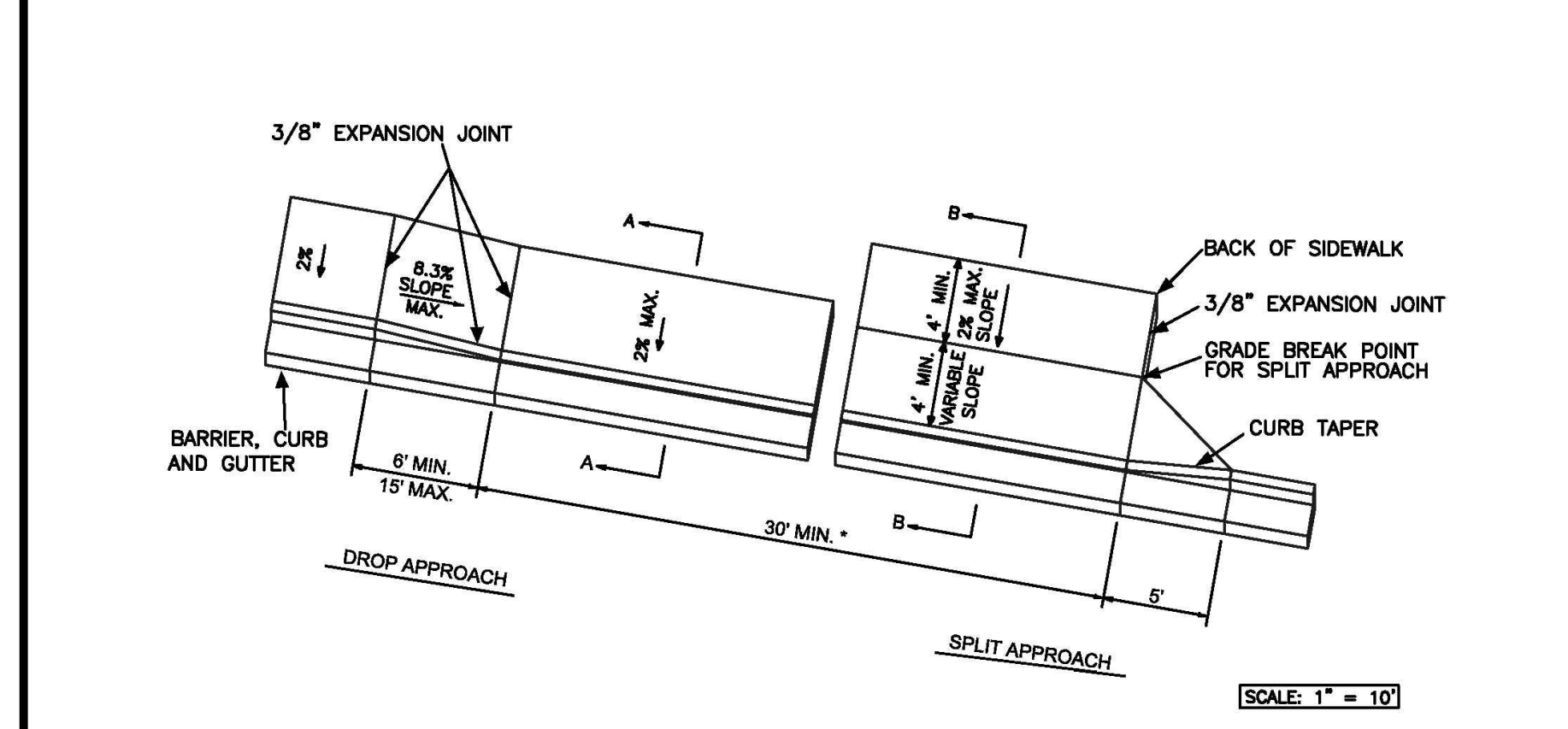
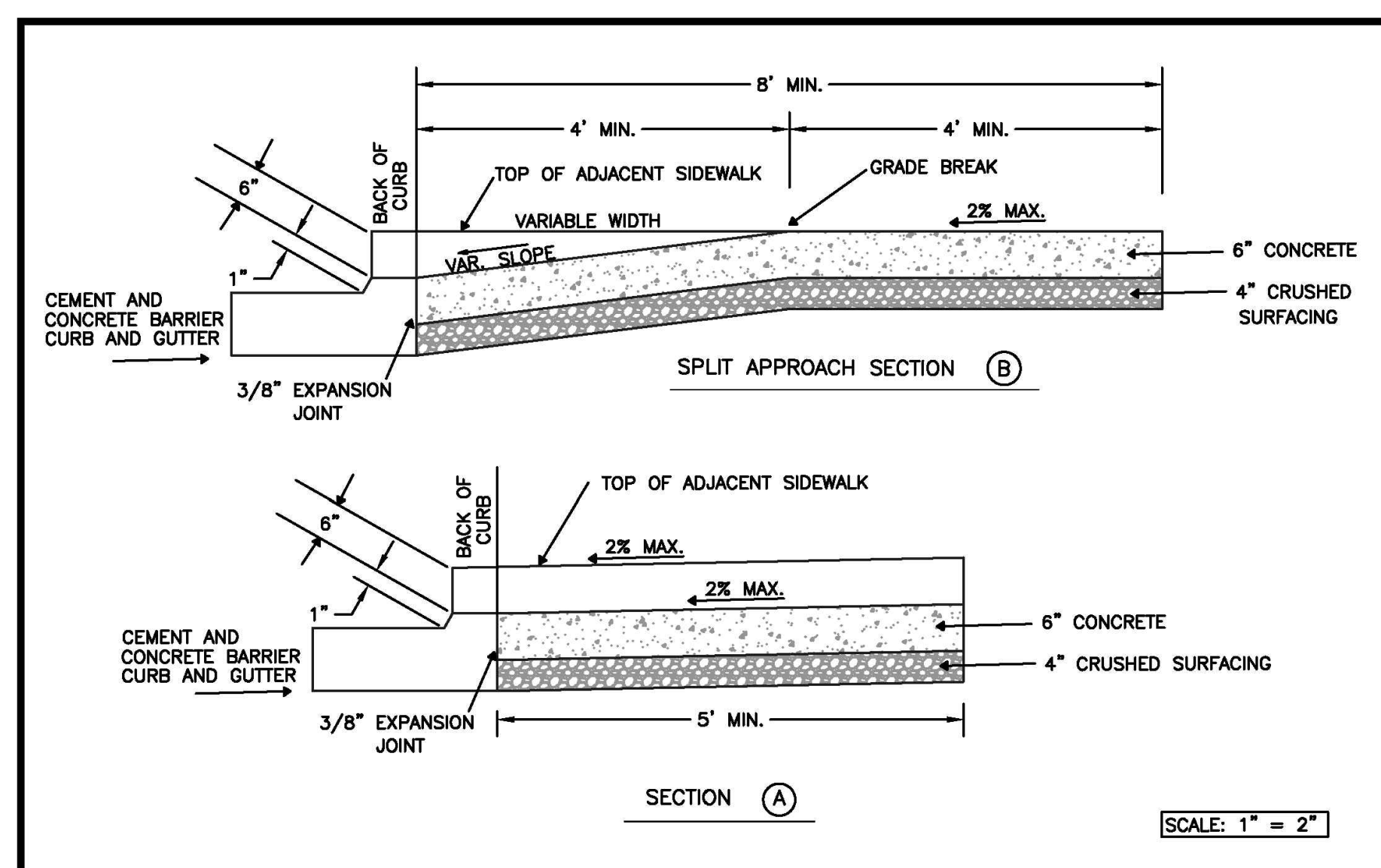
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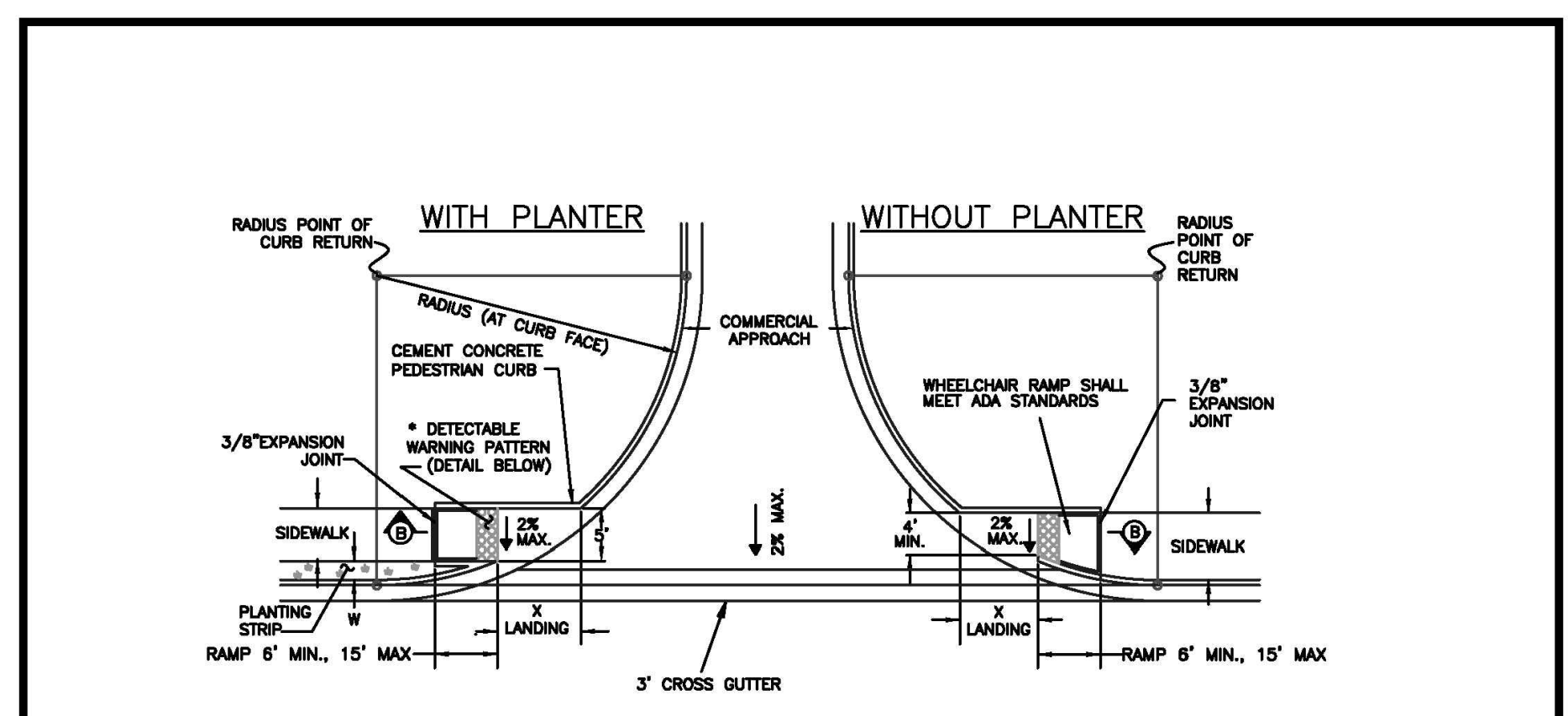


NOTES:

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

CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	URBAN COMMERCIAL APPROACH ALTERNATE 2	<table border="1" style="font-size: x-small;"> <tr> <td>DRAWN BY</td> <td>CHECKED BY</td> <td>APPROVED BY</td> <td>REVISED BY</td> <td>CITY STANDARD</td> </tr> <tr> <td>JIM ERWIN-SVORODA</td> <td>LINDA LIAN</td> <td>COLLEEN HARRIS</td> <td>LINDA LIAN</td> <td></td> </tr> <tr> <td>FILE NAME</td> <td>DATE APPROVED</td> <td>DATE REVISED</td> <td>SCALE</td> <td></td> </tr> <tr> <td>F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02.01.02.18</td> <td>07/01/2009</td> <td>02/11/11</td> <td>VARIAS</td> <td>01.02.18</td> </tr> </table>	DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD	JIM ERWIN-SVORODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN		FILE NAME	DATE APPROVED	DATE REVISED	SCALE		F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02.01.02.18	07/01/2009	02/11/11	VARIAS	01.02.18
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3 URBAN COMMERCIAL APPROACH 2
NOT TO SCALE



GEOMETRICS TABLE

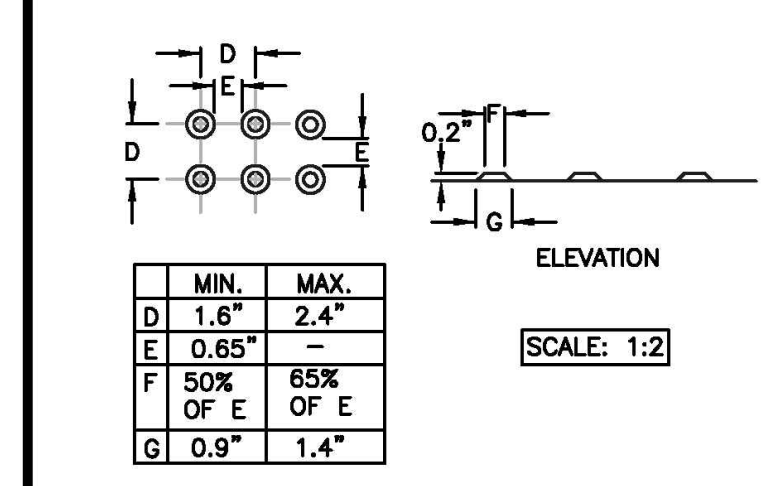
RADIUS (AT CURB FACE)	W=3'-0"	W=4'-0"	W=5'-0"	W=6'-0"
25 FEET	8'-3 3/4"	8'-7 1/4"	4'-11 1/8"	4'-4 3/4"
30 FEET	7'-3 3/4"	8'-5 1/2"	8'-9 1/4"	5'-2 1/2"
35 FEET	8'-1 1/2"	7'-1 3/4"	8'-5 1/8"	5'-10 1/8"
40 FEET	8'-9 1/2"	7'-10"	7'-1"	6'-5 3/4"
50 FEET	10'-3/4"	8'-1 1/4"	8'-2 1/2"	7'-8 1/2"

X = LANDING

NOTES:

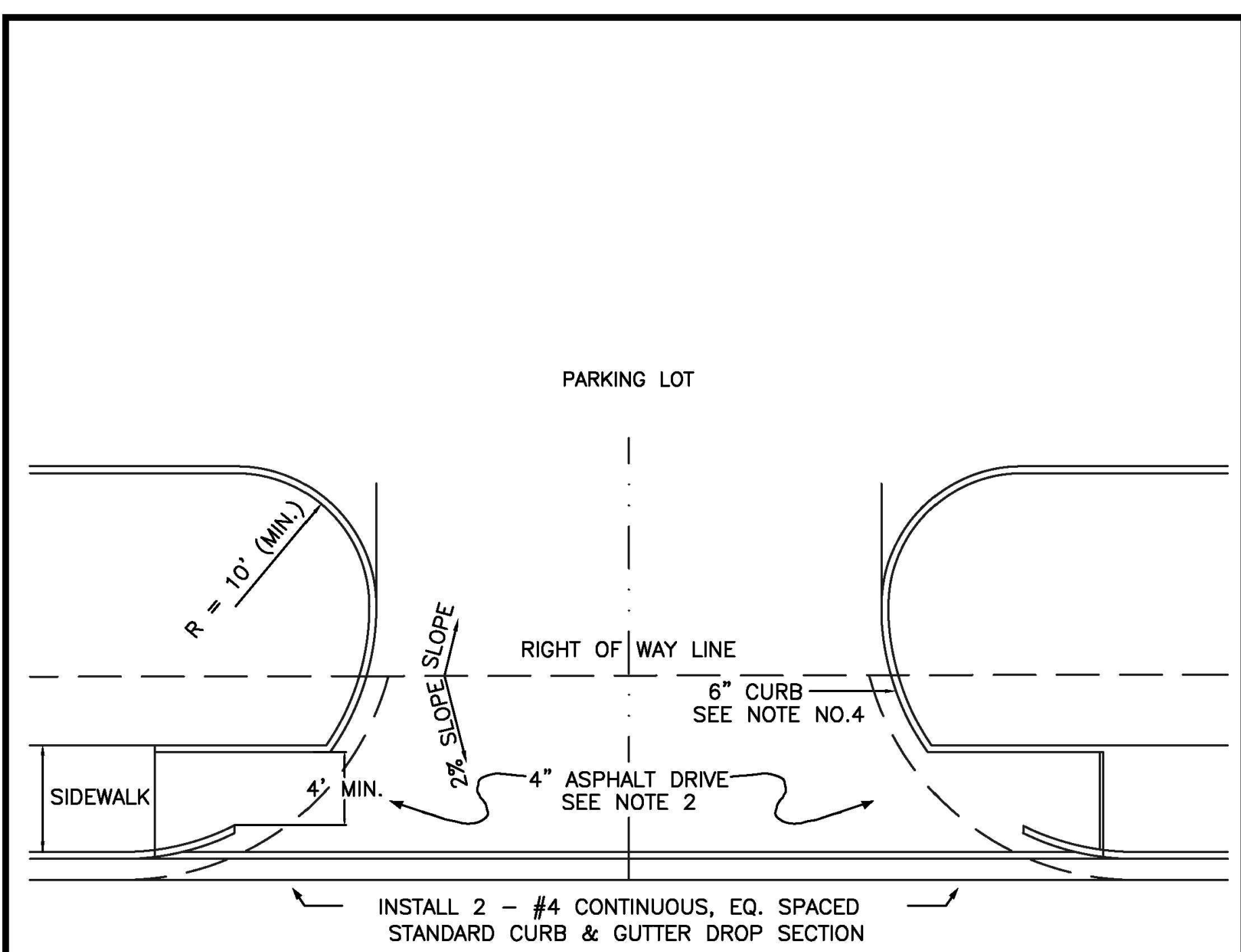
- AVOID PLACING DRAINAGE STRUCTURES OR OTHER OBSTRUCTIONS IN RAMP AND CROSSING AREA. CREATED BY ANY METHOD THAT WILL ACHIEVE THE TRUNCATED DOME DIMENSIONS AND SPACING SHOWN. THE DETECTABLE WARNING PATTERN AREA SHALL BE YELLOW, AND MATCH THE COLOR OF FEDERAL STANDARD 595, COLOR NUMBER 3353B.
- FOR SIDEWALK EXPANSION JOINT LOCATIONS AND ADDITIONAL INFORMATION, SEE CITY STANDARD DETAIL NO. 01.02.01 & 01.02.02.
- CURB RAMP SLOPE SHALL NOT EXCEED 8.3%, AS MEASURED BY A SMART LEVEL, UNLESS RAMP LENGTH IS EXTENDED TO 15'.

CURB GRADE	PROWAG UP-HILL RAMP LENGTH	PROWAG RAMP SLOPE
0.5%	6'-0"	8.3%
1.5%	7'-0"	8.3%
3%	8'-0"	8.3%
5%	15'	8.3%
7%	15'	10.3%
9%	15'	12.3%



CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	SIDEWALK RAMP WITH COMMERCIAL APPROACHES	<table border="1" style="font-size: x-small;"> <tr> <td>DRAWN BY</td> <td>CHECKED BY</td> <td>APPROVED BY</td> <td>REVISED BY</td> <td>CITY STANDARD</td> </tr> <tr> <td>JIM ERWIN-SVORODA</td> <td>LINDA LIAN</td> <td>COLLEEN HARRIS</td> <td>LINDA LIAN</td> <td></td> </tr> <tr> <td>FILE NAME</td> <td>DATE APPROVED</td> <td>DATE REVISED</td> <td>SCALE</td> <td></td> </tr> <tr> <td>F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02.01.02.19</td> <td>07/01/2009</td> <td>06/09/12</td> <td>VARIAS</td> <td>01.02.19</td> </tr> </table>	DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD	JIM ERWIN-SVORODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN		FILE NAME	DATE APPROVED	DATE REVISED	SCALE		F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02.01.02.19	07/01/2009	06/09/12	VARIAS	01.02.19
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2 SIDEWALK RAMP WITH COMMERCIAL APPROACH
NOT TO SCALE



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 RADI 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	<table border="1" style="font-size: x-small;"> <tr> <td>DRAWN BY</td> <td>CHECKED BY</td> <td>APPROVED BY</td> <td>REVISED BY</td> <td>CITY STANDARD</td> </tr> <tr> <td>JIM ERWIN-SVORODA</td> <td>LINDA LIAN</td> <td>COLLEEN HARRIS</td> <td>LINDA LIAN</td> <td></td> </tr> <tr> <td>FILE NAME</td> <td>DATE APPROVED</td> <td>DATE REVISED</td> <td>SCALE</td> <td></td> </tr> <tr> <td>F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02.01.02.16</td> <td>07/01/2009</td> <td>02/19/14</td> <td>1"=20'</td> <td>01.02.16</td> </tr> </table>	DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD	JIM ERWIN-SVORODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN		FILE NAME	DATE APPROVED	DATE REVISED	SCALE		F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02.01.02.16	07/01/2009	02/19/14	1"=20'	01.02.16
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F:\DWG\COMMON\STDS\CITY\2009\01_STR\01.02.01.02.16	07/01/2009	02/19/14	1"=20'	01.02.16																		

1 STANDARD COMMERCIAL APPROACH
NOT TO SCALE



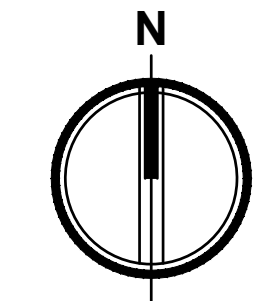
DRAINAGE NOTES AND DETAILS

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

Sheet No.
C3.5
17 of 25 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.



FIRE HYDRANT/FDC LOCATION/ACCESS APPROVED

BY: *David D. Dale*
CITY OF PUYALLUP
FIRE CODE OFFICIAL

DATE: 11/21/2024

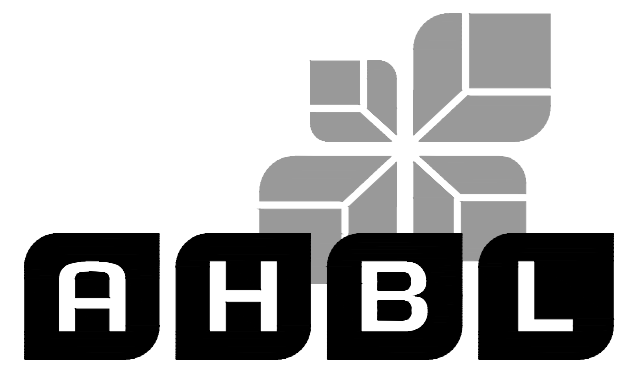
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APPROVED

BY: *James C. Huber*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 11/20/2024

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TACOMA · SEATTLE · SPOKANE · TRI-CITIES

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

10/8/2024



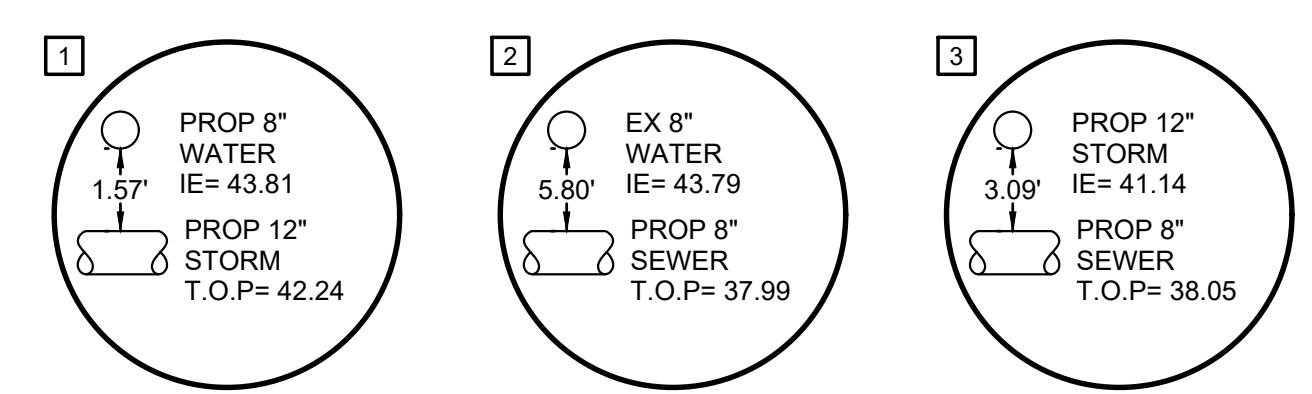
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LEGEND

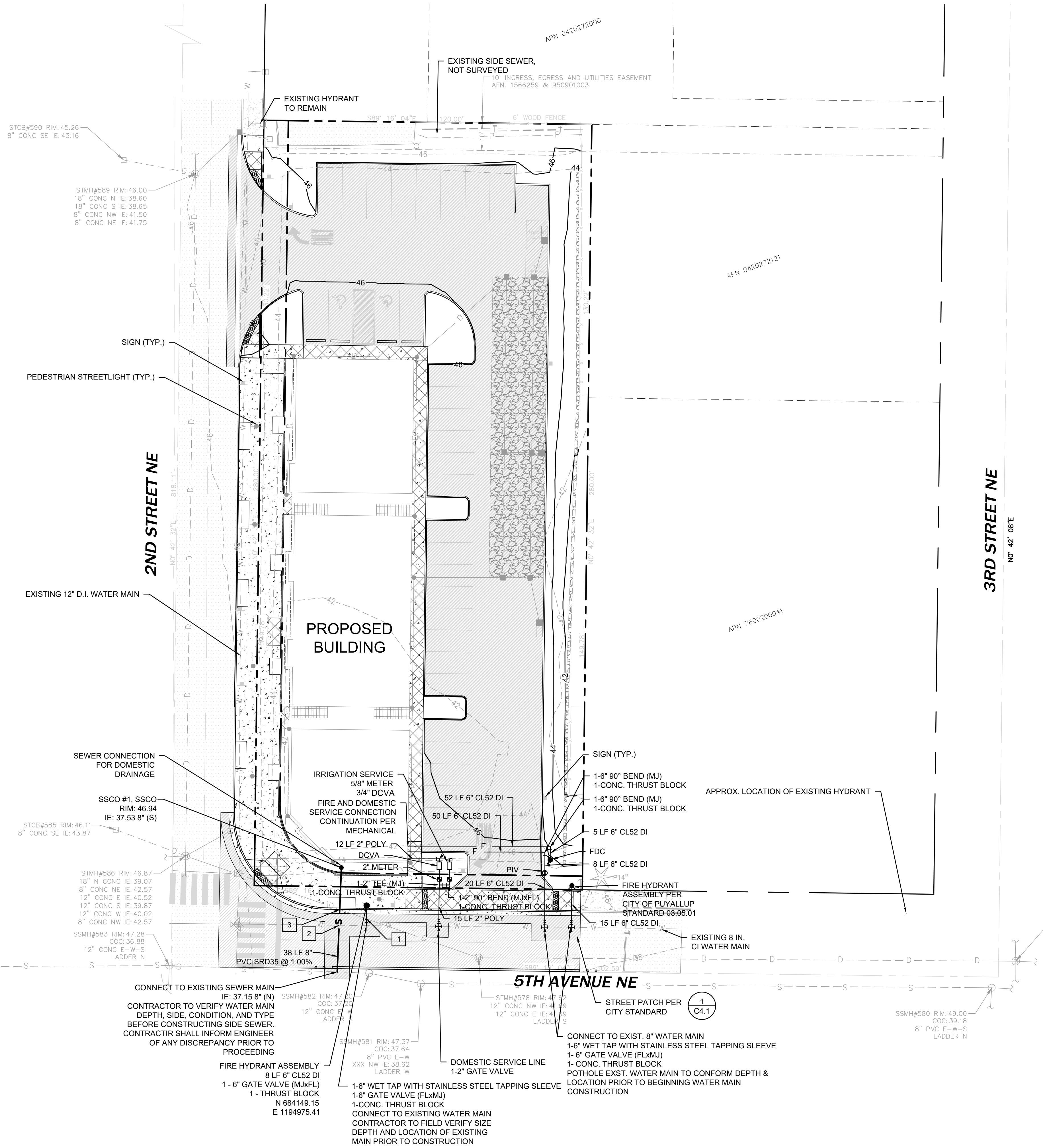
•	SANITARY SEWER CLEANOUT
— S —	SANITARY SEWER PIPING
•	FIRE HYDRANT
•	FIRE DEPARTMENT CONNECTION (FDC)
•	METER AS NOTED
•	POST INDICATOR VALVE (PIV)
•	GATE VALVE
•	THRUST BLOCKING
•	FITTINGS AS NOTED
— W —	WATER PIPING

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.



WATER NOTE: EXISTING WATER DEPTH IS ASSUMED BASED ON STANDARD COVER. CONTRACTOR TO POT HOLE AND VERIFY PRIOR TO SEWER CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCY.



**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

Revisions:

Sheet Title:

UTILITY PLAN

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

Sheet No.

C4.0

18 of 25 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: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

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SITE DEVELOPMENT PERMIT SET

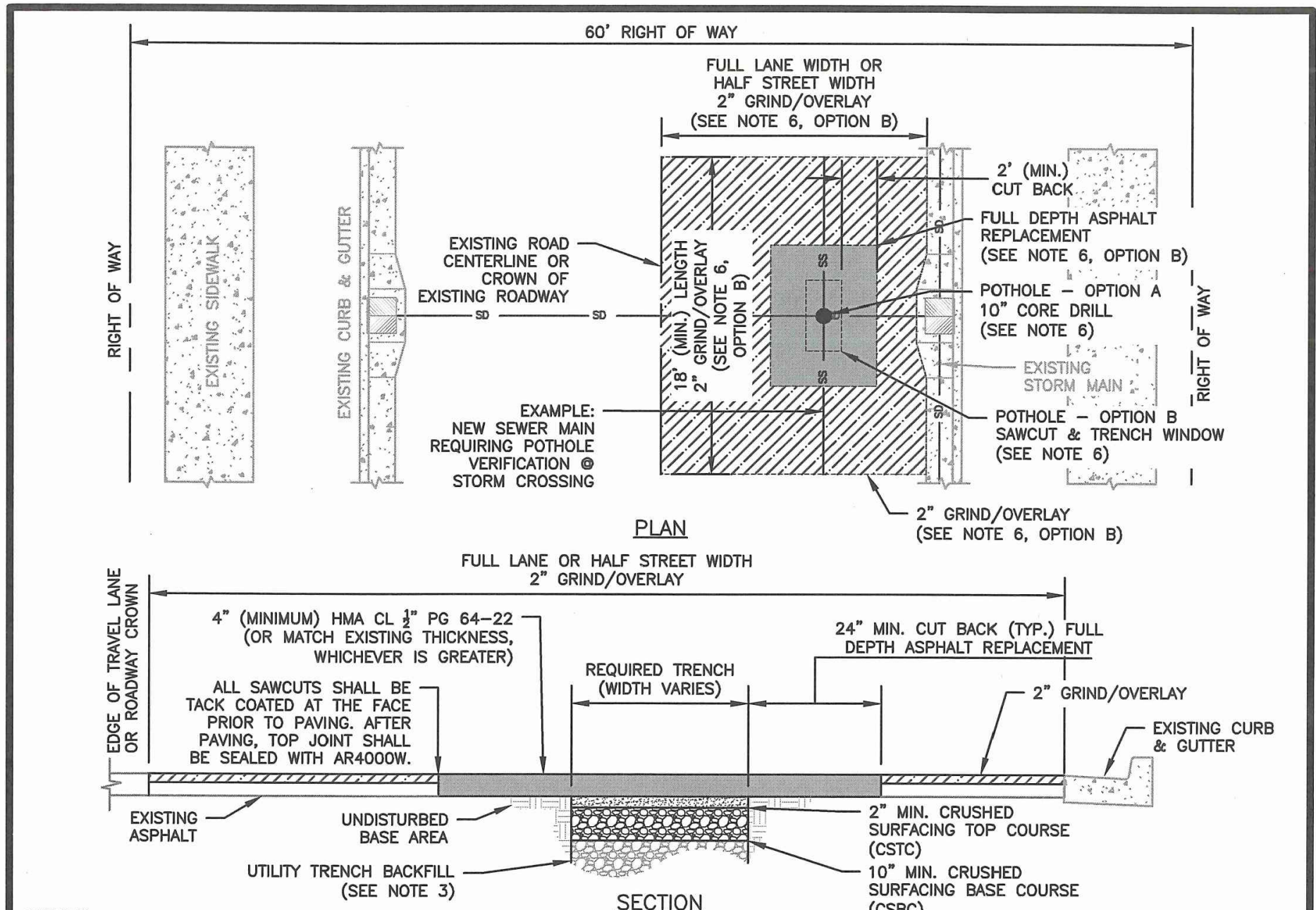
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**City of Puyallup
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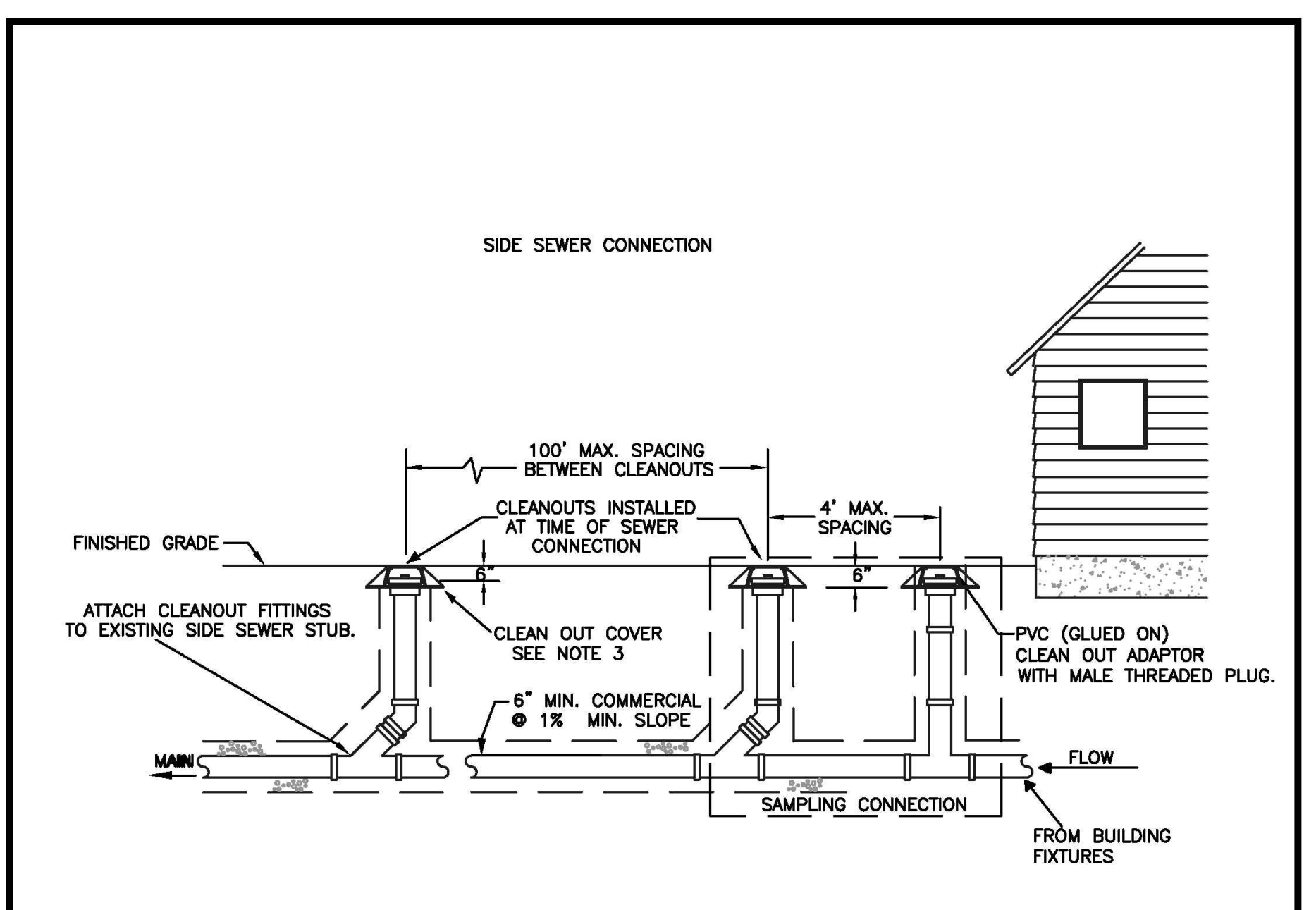
Building	Planning
Engineering	Public Works
Fire	Traffic



- NOTES:**
- BASE AND SUBBASE MATERIAL SHALL BE COMPACTED TO 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
 - ALL DEPTHS INDICATED ARE A MINIMUM COMPACTED DEPTH.
 - INITIAL BACKFILLING SHALL BE PERFORMED ONLY AFTER INSPECTION AND APPROVAL OF THE INSTALLED PIPE OR STRUCTURE. THE TRENCH BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH CITY STANDARD DETAIL NO. 06.01.01.
 - ALL BACKFILL FOR PIPE TRENCHES SHALL BE MECHANICALLY COMPACTED BY A POWER-OPERATED MECHANICAL TAMPER(S) AS SPECIFIED IN WSDOT STANDARD SPEC. 2-03.3 (14)C, COMPACTING EARTH EMBANKMENTS, METHOD C OF THE WSDOT STANDARD SPECIFICATIONS.
 - IF PAVING SURFACES ADJACENT TO THE TRENCH OPENING MAY BE DAMAGED WHERE TRENCHES ARE MADE PARALLEL TO THE STREET, OR WHERE A NUMBER OF CROSS TRENCHES ARE LAID IN CLOSE PROXIMITY TO ONE ANOTHER OR WHERE THE EQUIPMENT USED MAY CAUSE SUCH DAMAGE, THE CITY ENGINEER MAY REQUIRE A NEGOTIATED CONTRIBUTION FROM THE PERMITTEE FOR RESURFACING IN LIEU OF PATCHING.
 - IF THE TOTAL AREA OF THE PROPOSED PATCH OR PROBABLE DAMAGED AREA EXCEEDS 25 PERCENT OF THE TOTAL PAVEMENT SURFACING BETWEEN CURB FACES OR BETWEEN CONCRETE GUTTER EDGES IN ANY BLOCK, SUCH NEGOTIATIONS SHALL BE CARRIED ON AND CONTRIBUTIONS AGREED UPON PRIOR TO ISSUANCE OF A PERMIT. SUCH CONTRIBUTIONS SHALL BE IN ADDITION TO THE STANDARD PERMIT FEE.
- POTHOLING FOR UTILITIES:**
- OPTION A - UP TO A 10" DIAMETER CORE DRILL IS ALLOWED. CORE HOLES MADE DURING UTILITY POTHOLES SHALL BE BACKFILLED WITH CDF TO WITHIN 4" OF FINISHED GRADE. 4" OF HMA SHALL THEN BE PLACED AND COMPACTED, FLUSH WITH EXISTING GRADE.
- OPTION B - FOR POT HOLE WINDOWS LARGER THAN 10" IN DIAMETER OR TRENCHING COMPLETED IN EXISTING ROADWAY, THE CONTRACTOR SHALL MEET CITY STANDARD 06.01.01 FOR PIPE BEDDING AND BACKFILL REQUIREMENTS. PAVEMENT RESTORATION SHALL BE ACCOMPLISHED BY INSTALLING THE TRENCH PATCH, AS SHOWN HEREIN, AND THEN GRINDING/OVERLAYING TO A MINIMUM DEPTH OF 2". THE LIMITS OF THE REQUIRED GRIND/OVERLAY SHALL BE TO THE NEAREST LANE LINE, OR HALF STREET, AND SHALL BE A MINIMUM OF 18 FEET LONG (LONGITUDINALLY ALONG ROADWAY) CENTERED AT LOCATION OF PATCH. NOTE: IF EXISTING ASPHALT THICKNESS IS LESS THAN 3", FULL DEPTH PAVEMENT REPLACEMENT, IN LIEU OF GRIND/OVERLAY, TO MEET A MINIMUM ASPHALT THICKNESS OF 4" WILL BE REQUIRED.
- WHERE LOCATION OF TRENCH OR POT HOLE WINDOW INTERSECTS ROAD CENTERLINE, A MINIMUM GRIND AND OVERLAY OF ONE FULL LANE WIDTH (12') IS REQUIRED CENTERED ON ROADWAY. NO LONGITUDINAL JOINTS WILL BE ALLOWED IN THE WHEEL PATH.
- ALL MANHOLE FRAMES, VALVE FRAMES AND MONUMENT COVERS SHALL BE INSTALLED AFTER PLACEMENT OF ASPHALT. IF MORE THAN ONE LIFT IS NECESSARY, FRAMES AND LIDS WILL BE ADJUSTED TO FINISH GRADE AT FIRST LIFT AS DIRECTED BY THE CITY.

 CITY OF PUYALLUP OFFICE OF THE CITY ENGINEER	 APPROVED FOR PUBLICATION DATE SEALED: 5/15/18 FILE NAME: P:\06\PROJ\2190606\10_CIV\CAD\Final Design\2190606-SH-SSWR-WATR-DETL.dwg	STREET PATCH <small>(NOT TO SCALE)</small> CITY STANDARD 01.01.20
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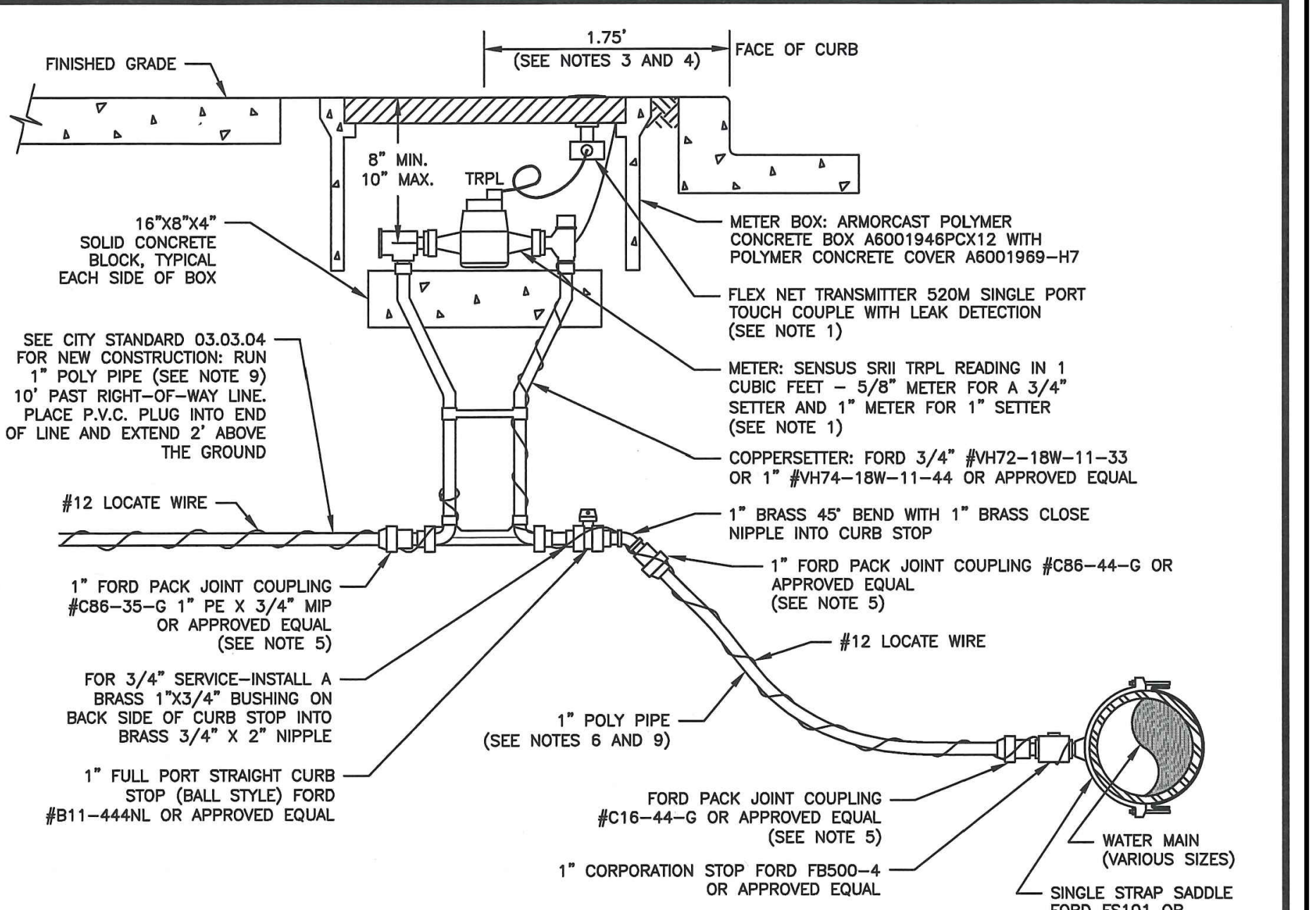
1 STREET PATCH NOT TO SCALE



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

 CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	COMMERCIAL SIDE SEWER CONNECTION WITH SAMPLING CONNECTION	 APPROVED FOR PUBLICATION DATE SEALED: 2/15/2019
DRAWN BY: JIM ERWIN-SVOBODA CHECKED BY: LINDA LIAN APPROVED BY: COLLEEN HARRIS DATE APPROVED: 09/01/2009 FILE NAME: P:\06\PROJ\2190606\10_CIV\CAD\Final Design\2190606-SH-SSWR-WATR-DETL.dwg	REVISED BY: LINDA LIAN DATE REVISED: 05/21/11 SCALE: 1/4 CITY STANDARD: 04.03.04	(NOT TO SCALE) CITY STANDARD 03.03.01

2 COMMERCIAL SIDE SEWER CONNECTION WITH SAMPLING CONNECTION NOT TO SCALE



- NOTES:**
- FOR SINGLE FAMILY RESIDENTIAL CONSTRUCTION, THE CITY SHALL SUPPLY AND INSTALL THE WATER METER AND TRANSMITTER AT THE TIME OF OCCUPANCY. FOR COMMERCIAL CONSTRUCTION THE CONTRACTOR SHALL SUPPLY AND INSTALL THE METER AND TRANSMITTER.
 - ALL MATERIAL 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.
 - ALL 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.
 - WATER MAIN SHALL HAVE A MINIMUM COVER OF 36" IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM COVER OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
 - DUAL SERVICE SHALL BE CENTERED ON PROPERTY LINE.
 - ALL POLY PIPE SHALL BE HIGH DENSITY POLY (IRON PIPE SIZE) MEETING ASTM D-2239-SIDR 7, BLUE IN COLOR, 200 PSI MINIMUM.

 CITY OF PUYALLUP OFFICE OF THE CITY ENGINEER	3/4" OR 1" WATER SERVICE CONNECTION <small>(NOT TO SCALE)</small> CITY STANDARD 03.03.01	 APPROVED FOR PUBLICATION DATE SEALED: 2/15/2019
DRAWN BY: JIM ERWIN-SVOBODA CHECKED BY: LINDA LIAN APPROVED BY: COLLEEN HARRIS DATE APPROVED: 09/01/2009 FILE NAME: P:\06\PROJ\2190606\10_CIV\CAD\Final Design\2190606-SH-SSWR-WATR-DETL.dwg	REVISED BY: LINDA LIAN DATE REVISED: 05/21/11 SCALE: 1/4 CITY STANDARD: 04.03.04	(NOT TO SCALE) CITY STANDARD 03.03.01

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



WATER AND SEWER NOTES AND DETAILS

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

Sheet No.

C4.1

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: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 11/20/2024

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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

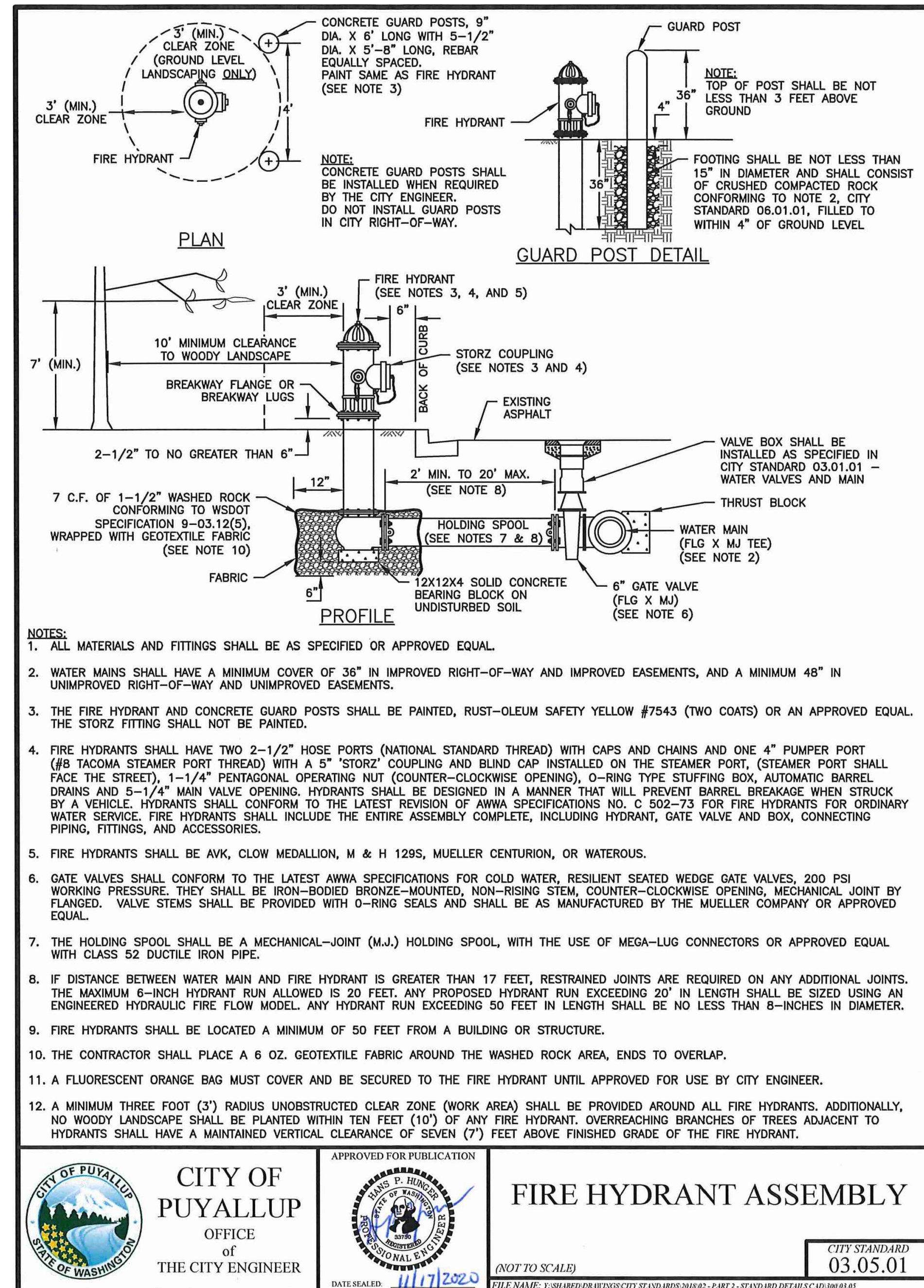
Issue Set & Date:
SITE DEVELOPMENT PERMIT SET
10/18/2024






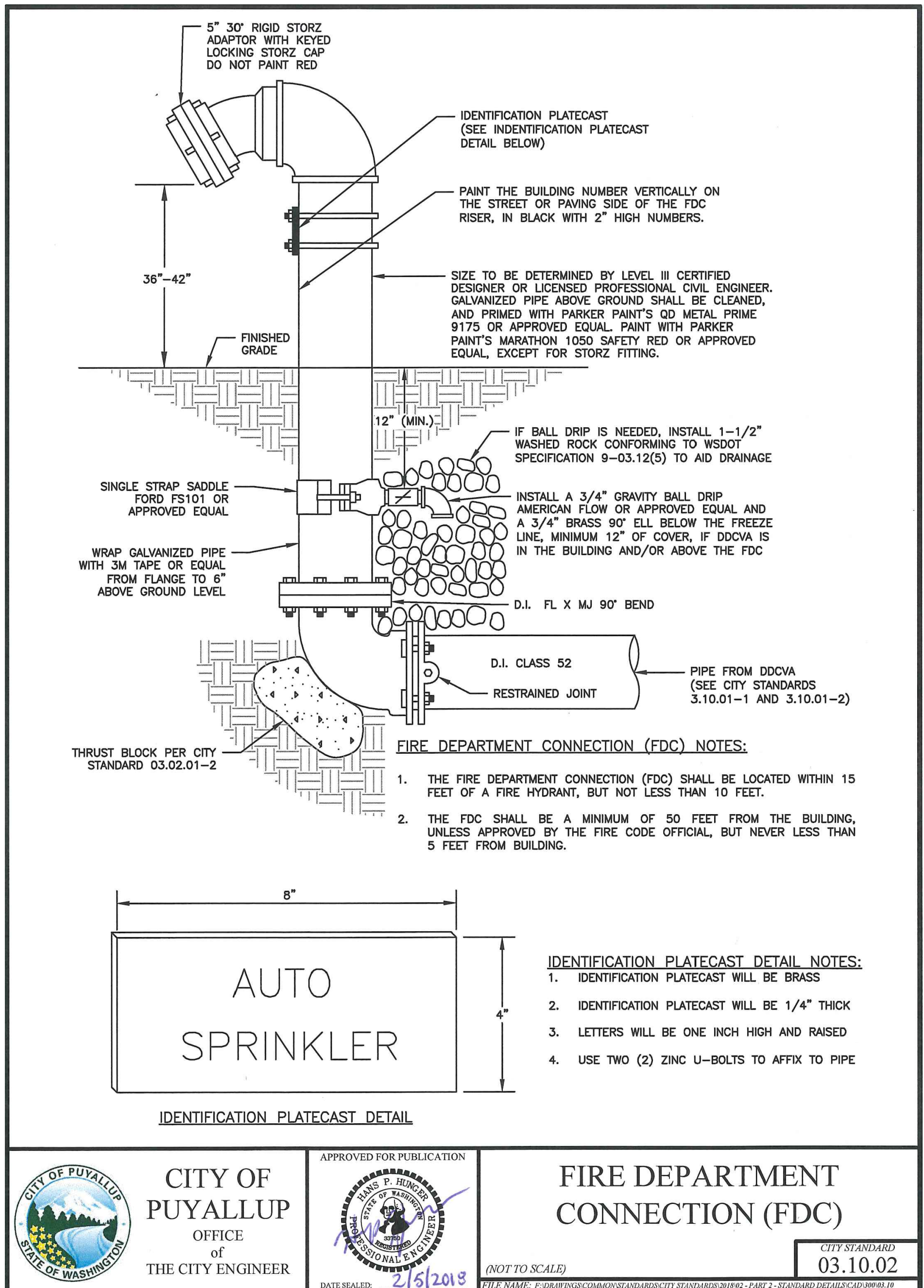
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**City of Puyallup
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Building	Planning
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 CITY OF PUYALLUP OFFICE of THE CITY ENGINEER	 FIRE HYDRANT ASSEMBLY <small>(NOT TO SCALE)</small> CITY STANDARD 03.05.01	APPROVED FOR PUBLICATION  FIRE HYDRANT ASSEMBLY <small>(NOT TO SCALE)</small> CITY STANDARD 03.05.01
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 CITY OF PUYALLUP OFFICE of THE CITY ENGINEER	 FIRE DEPARTMENT CONNECTION (FDC) <small>(NOT TO SCALE)</small> CITY STANDARD 03.10.02	APPROVED FOR PUBLICATION  FIRE DEPARTMENT CONNECTION (FDC) <small>(NOT TO SCALE)</small> CITY STANDARD 03.10.02
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WATER AND SEWER NOTES AND DETAILS

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

Sheet No.
C4.2
20 of 25 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 *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 11/20/2024

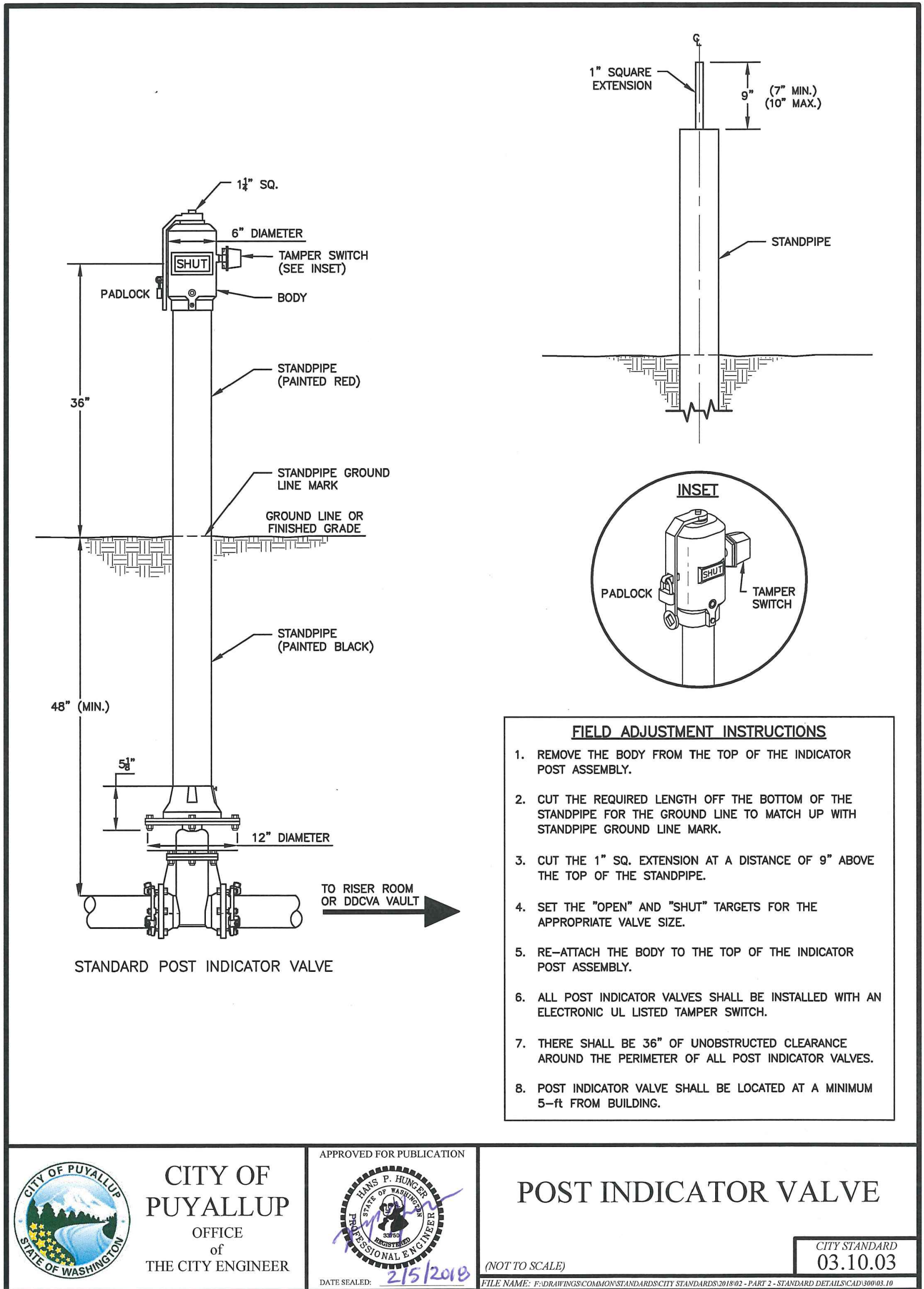
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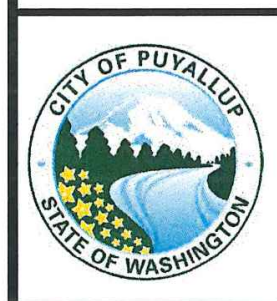


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DATE SEALED: 2/5/2019

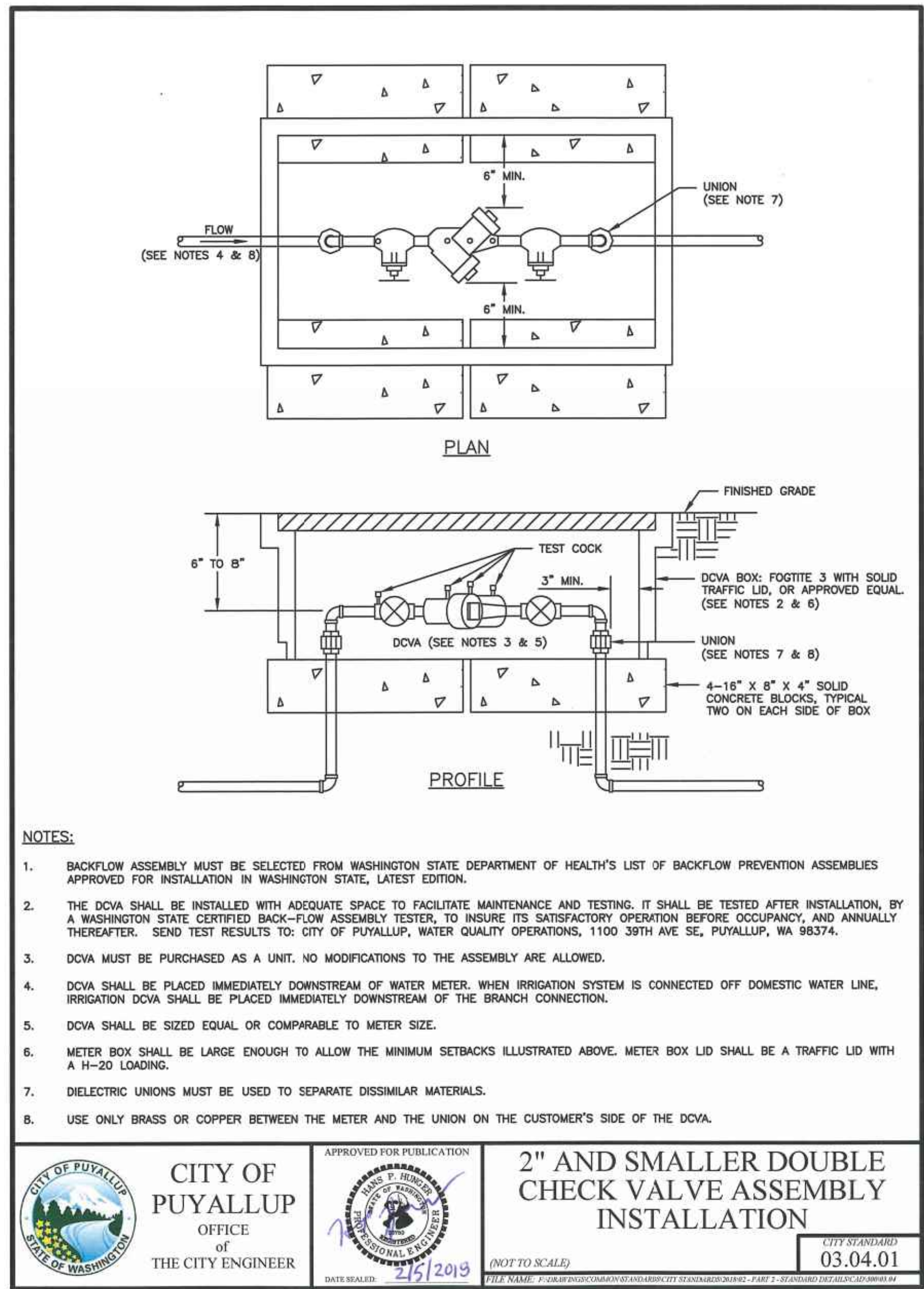
POST INDICATOR VALVE


CITY STANDARD
03.10.03

(NOT TO SCALE)

FILE NAME: P:\GIS\INTEGRATION\STANDARDS\CITY STANDARDS\201901 - PART 1 - STANDARD DETAILS\CD\PIV01.DWG


1 POST INDICATOR VALVE (PIV)
NOT TO SCALE





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DATE SEALED: 2/5/2019

2" AND SMALLER DOUBLE CHECK VALVE ASSEMBLY INSTALLATION

CITY STANDARD
03.04.01

(NOT TO SCALE)

FILE NAME: P:\GIS\INTEGRATION\STANDARDS\CITY STANDARDS\201901 - PART 1 - STANDARD DETAILS\CD\DCVA01.DWG

2 2 INCH AND SMALLER DCVA
NOT TO SCALE

SANITARY SEWER NOTES:

1. ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
2. AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE 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.
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 UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
7. ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
8. MINIMUM GRADE ON ALL 4 INCH RESIDENTIAL SIDE SEWERS SHALL BE 2 PERCENT AND 6 INCH COMMERCIAL SIDE SEWERS SHALL BE 1 PERCENT; MAXIMUM SHALL BE 8 PERCENT. ALL SIDE SEWERS SHALL BE 6 INCHES WITHIN CITY RIGHT-OF-WAY.
9. SIDE SEWERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY STANDARD NOS. 04.03.01, 04.03.02, 04.03.03 AND 04.03.04. SIDE SEWER INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT (WISHA).
10. ALL SEWER PIPE SHALL BE PVC, POLYPROPYLENE, OR DUCTILE IRON. PVC SEWER PIPE SHALL CONFORM TO ASTM D-3034, SDR35 FOR PIPE SIZES 15-INCH AND SMALLER AND ASTM F679 FOR PIPE SIZES 18- TO 27-INCH, DUCTILE IRON PIPE SHALL BE CLASS 51 OR GREATER, LINED WITH PROTECTO 401TM EPOXY LINING OR EQUIVALENT, UNLESS OTHERWISE NOTED. 12-INCH THROUGH 30-INCH POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(2). IT SHALL MEET OR EXCEED ASTM F2764. 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.
11. SANITARY SEWER MANHOLE FRAMES AND COVERS SHALL CONFORM TO CITY STANDARD NO. 06.01.02.
12. SANITARY SEWER MANHOLES SHALL CONFORM TO CITY STANDARD NOS. 04.01.01, 04.01.02, 04.01.03 AND 04.01.04. ALL MANHOLES SHALL BE CHanneled FOR FUTURE LINES AS SPECIFIED ON THESE PLANS. MANHOLE STEPS AND LADDER SHALL CONFORM TO STANDARD NO. 06.01.03.
13. SANITARY SEWER PIPE AND SIDE SEWERS SHALL BE 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES WITH THE EXCEPTION OF SIDE SEWERS THAT PROVIDE SERVICE TO A SINGLE-FAMILY RESIDENCE. AT THE DISCRETION OF THE REVIEW ENGINEER, A LICENSED PROFESSIONAL ENGINEER WILL BE REQUIRED TO STAMP THE DESIGN TO ACCOUNT FOR DEPTH OR PROXIMITY TO FOUNDATION, STEEP SLOPES, OR OTHER FACTORS.
14. NO SIDE SEWERS SHALL BE CONNECTED TO ANY HOUSE OR BUILDING UNTIL ALL MANHOLES ARE ADJUSTED TO THE FINISHED GRADE OF THE COMPLETED ASPHALT ROADWAY AND THE ASPHALT PATCH AND SEAL AROUND THE RING ARE ACCEPTED.
15. FOR COMMERCIAL DEVELOPMENTS IN WHICH SOURCES OF GREASE AND/OR OILS MAY BE INTRODUCED TO THE CITY SANITARY SEWER SYSTEM, A CITY APPROVED GREASE INTERCEPTOR SHALL BE INSTALLED DOWNSTREAM FROM THE SOURCE.
16. ONCE SEWER AND ALL OTHER UTILITY CONSTRUCTION IS COMPLETED, ALL SANITARY SEWER MAINS AND SIDE SEWERS SHALL BE TESTED PER SECTION 406 OF THE CITY STANDARDS.

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**
10/18/2024



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City of Puyallup
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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 25 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 11/20/2024

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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

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**City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

Revisions:

Sheet Title:

WATER AND SEWER NOTES AND DETAILS

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

Sheet No.

C4.4

22 of 25 Sheets

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)

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.

 CITY OF PUYALLUP OFFICE of THE CITY ENGINEER <small>DATE SEALED: 2/15/2018</small>	APPROVED FOR PUBLICATION HORIZONTAL THRUST BLOCKING <small>(NOT TO SCALE)</small> CITY STANDARD 03.02.01-1 <small>FILE NAME: P:\04\03\CONCRETE\STANDARD\03.02.01-1-STD.DWG</small>	 CITY OF PUYALLUP OFFICE of THE CITY ENGINEER <small>DATE SEALED: 2/15/2018</small>
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1 HORIZONTAL THRUST BLOCKING

NOT TO SCALE

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.

11-1/4" TO 45° BEND

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 (FT³)	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		
		45°	200	5.8		
14"	200	11.25°	75	4.2	3/8"	17"
		22.5°	147	5.3		
		45°	272	6.5		
16"	200	11.25°	98	4.6	3/8"	17"
		22.5°	192	5.8		
		45°	355	7.1		

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

 CITY OF PUYALLUP OFFICE of THE CITY ENGINEER <small>DATE SEALED: 2/15/2018</small>	APPROVED FOR PUBLICATION VERTICAL THRUST BLOCKING <small>(NOT TO SCALE)</small> CITY STANDARD 03.02.01-2 <small>FILE NAME: P:\04\03\CONCRETE\STANDARD\03.02.01-2-STD.DWG</small>	 CITY OF PUYALLUP OFFICE of THE CITY ENGINEER <small>DATE SEALED: 2/15/2018</small>
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2 VERTICAL THRUST BLOCKING

NOT TO SCALE

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 <small>DATE SEALED: 2/15/2018</small>	APPROVED FOR PUBLICATION THRUST BLOCKING TABLE <small>(NOT TO SCALE)</small> CITY STANDARD 03.02.01-3 <small>FILE NAME: P:\04\03\CONCRETE\STANDARD\03.02.01-3-STD.DWG</small>	 CITY OF PUYALLUP OFFICE of THE CITY ENGINEER <small>DATE SEALED: 2/15/2018</small>
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3 THRUST BLOCKING TABLE

NOT TO SCALE



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 11/20/2024

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PUYALLUP 2ND STREET APARTMENTS

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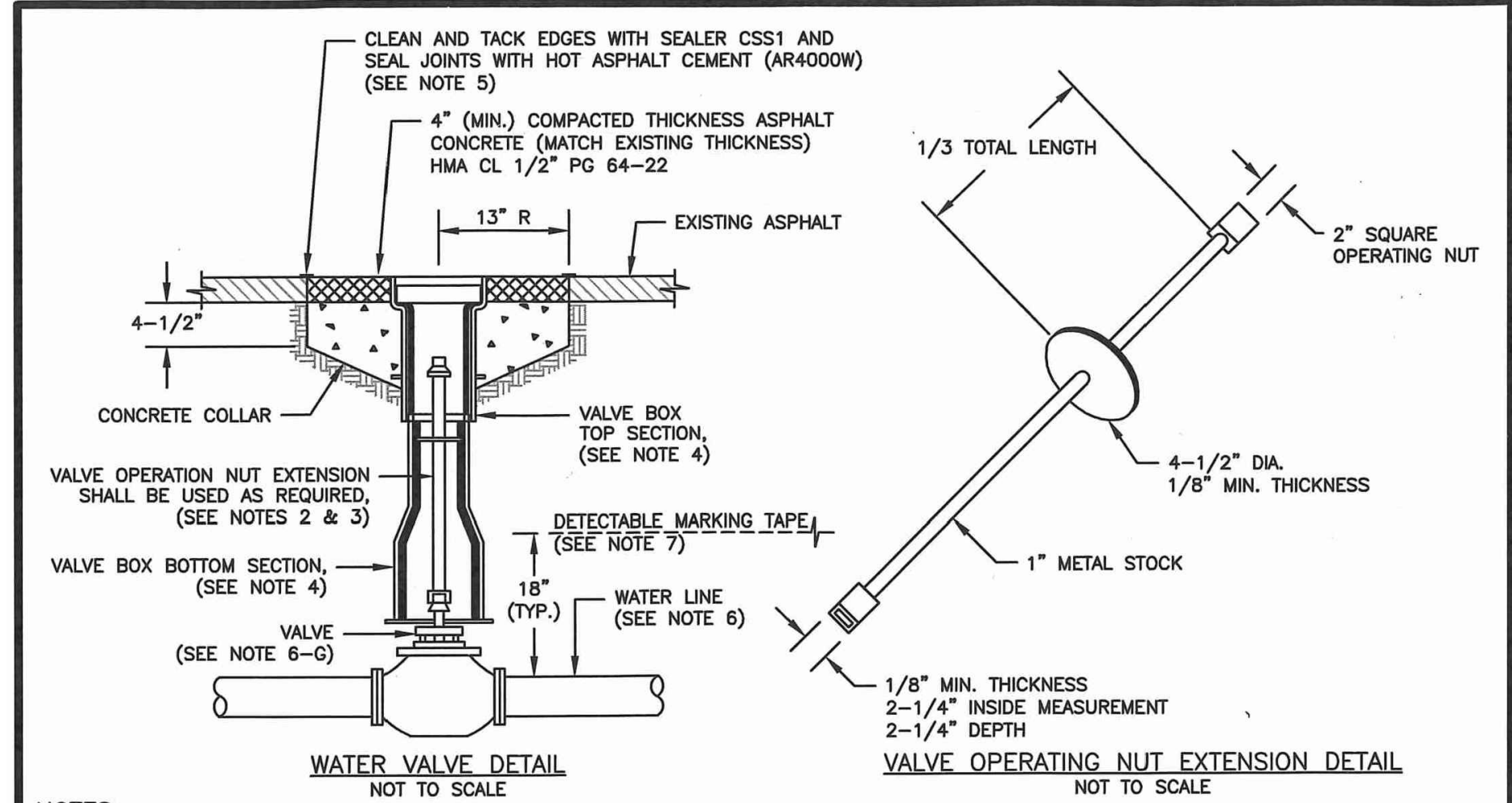
Issue Set & Date:
SITE DEVELOPMENT PERMIT SET
10/8/2024





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**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

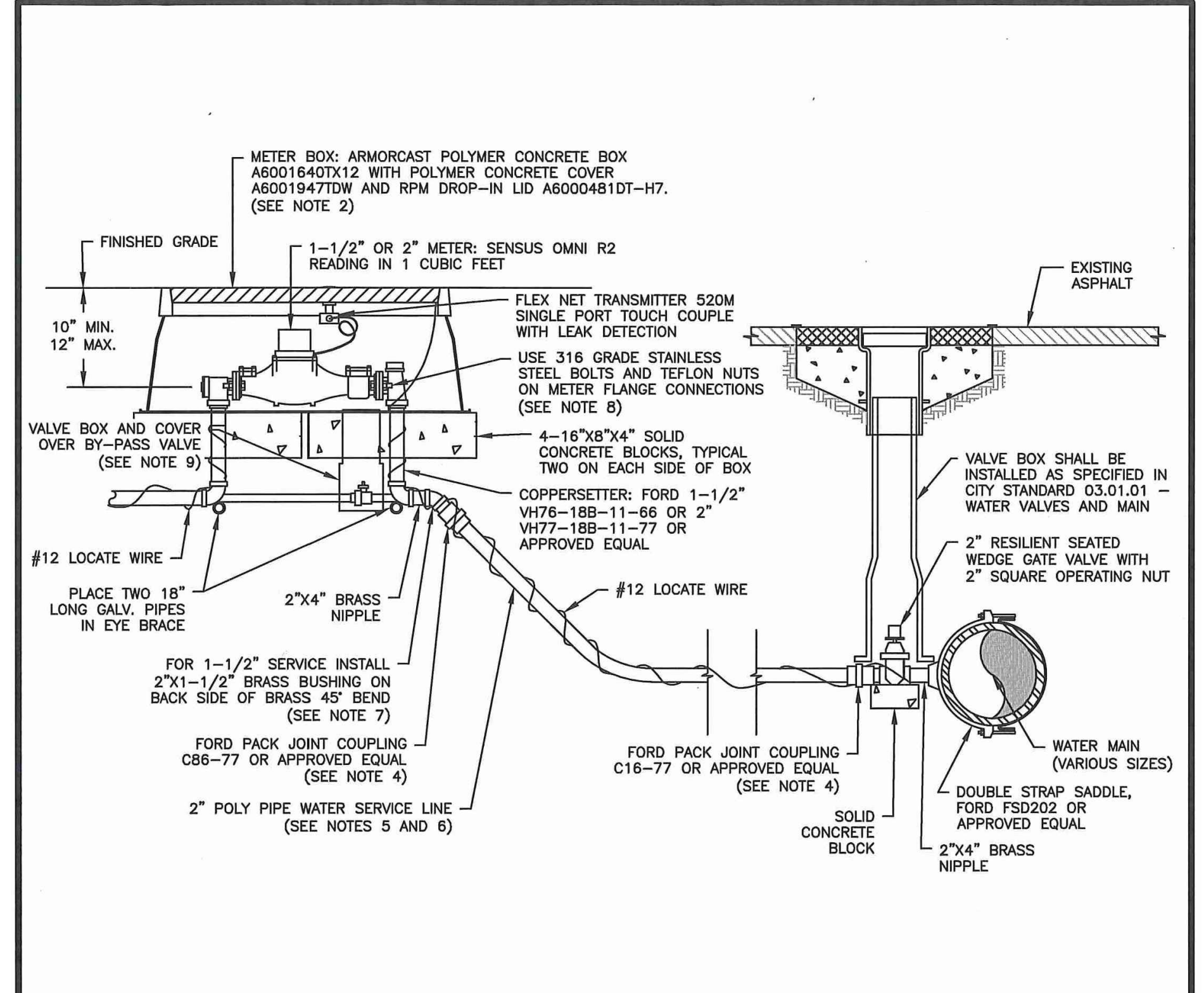
Building	Planning
Engineering	Public Works
Fire	Traffic



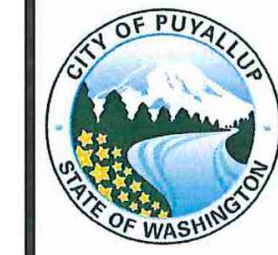
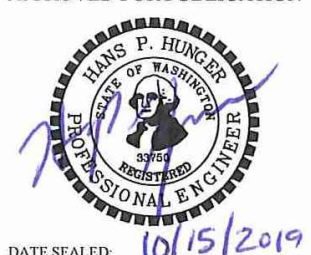
- NOTES:**
- WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
 - VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FIVE (5) FEET BELOW 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# D680002SU) 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	 APPROVED FOR PUBLICATION DATE SEALED: 10/15/2024	WATER VALVES AND MAINS <small>(NOT TO SCALE)</small> CITY STANDARD 03.01.01
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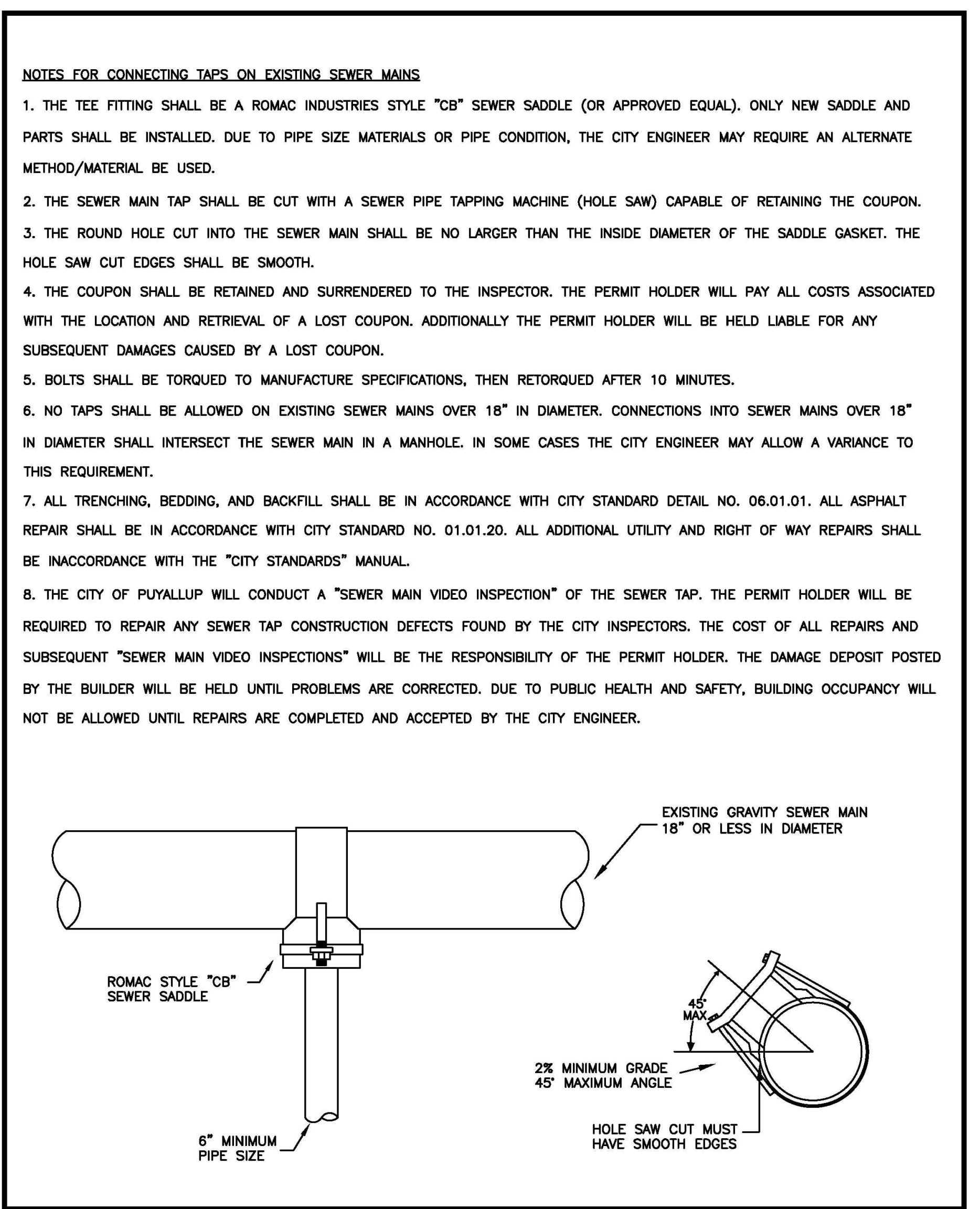
1 WATER VALVES AND MAINS
NOT TO SCALE




- 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	 APPROVED FOR PUBLICATION DATE SEALED: 10/15/2024	1-1/2" AND 2" WATER SERVICE CONNECTION <small>(NOT TO SCALE)</small> CITY STANDARD 03.03.02
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2 1.5 INCH AND 2 INCH WATER SERVICE CONNECTION
NOT TO SCALE



 CITY OF PUYALLUP DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS	SEWER MAIN TAP										
<table border="1" style="width: 100%;"> <tr> <td>DRAWN BY JIM ERWIN-SVOBODA</td> <td>CHECKED BY LINDA LIAN</td> <td>APPROVED BY COLLEEN HARRIS</td> <td>REVISED BY XXXX</td> <td>CITY STANDARD</td> </tr> <tr> <td>FILE NAME F:\DWG\CCOMMON\STDS\CITY\200904_SS04.0204.02.01</td> <td>DATE APPROVED 07/01/2009</td> <td>DATE REVISED XXXXXX</td> <td>SCALE 1:2</td> <td>04.02.01</td> </tr> </table>	DRAWN BY JIM ERWIN-SVOBODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX	CITY STANDARD	FILE NAME F:\DWG\CCOMMON\STDS\CITY\200904_SS04.0204.02.01	DATE APPROVED 07/01/2009	DATE REVISED XXXXXX	SCALE 1:2	04.02.01	
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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 25 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: *[Signature]*
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE: 11/20/2024

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



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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

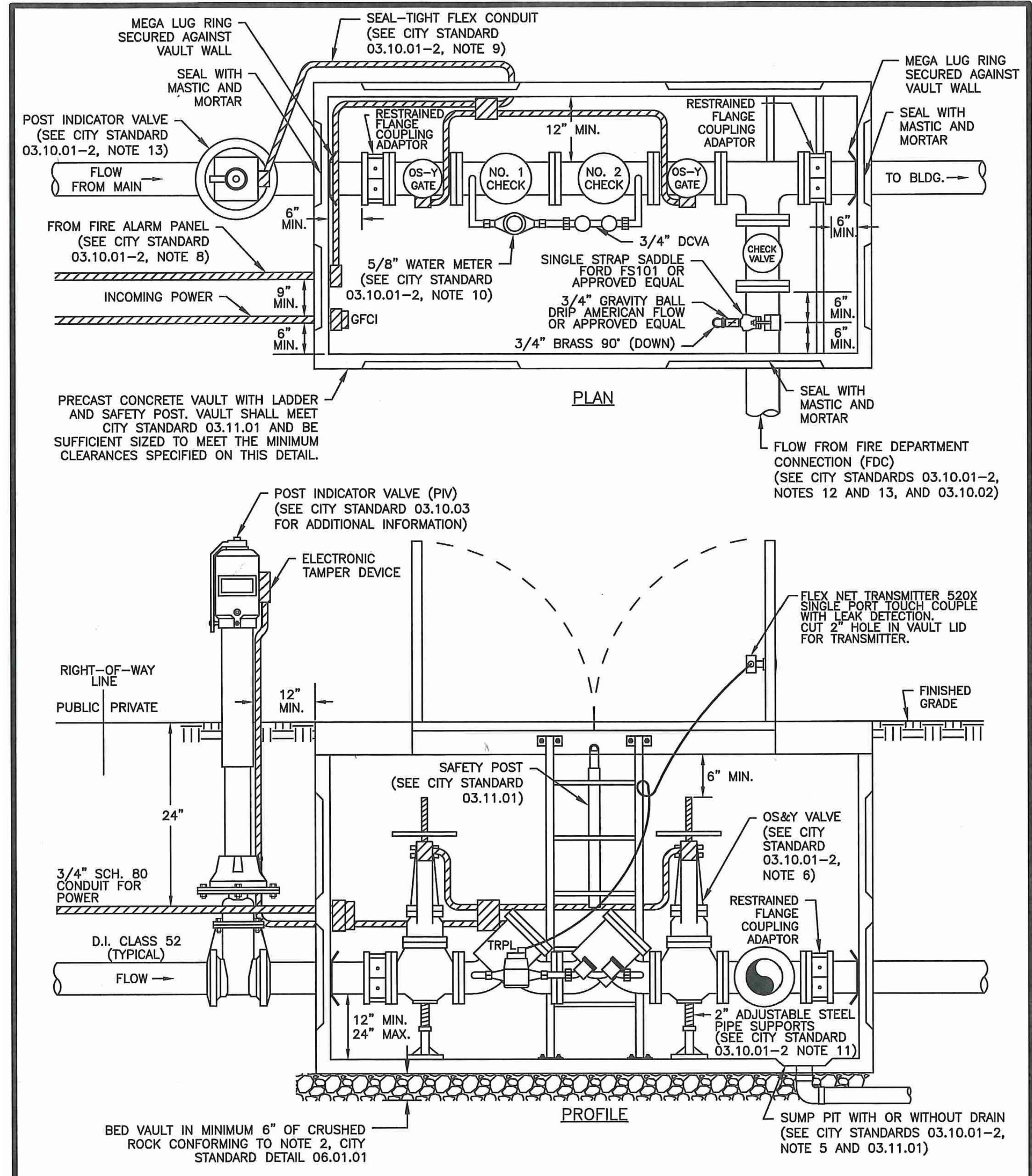
Issue Set & Date:
SITE DEVELOPMENT PERMIT SET
10/18/2024



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**City of Puyallup
Development & Permitting Services
ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



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.

 CITY OF PUYALLUP OFFICE of THE CITY ENGINEER	APPROVED FOR PUBLICATION HANS P. HUMBER REGISTERED PROFESSIONAL ENGINEER NO. 34535 DATE SEALED: 10/15/2019	DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION <small>(NOT TO SCALE)</small> CITY STANDARD 03.10.01-1
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- 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.

 CITY OF PUYALLUP OFFICE of THE CITY ENGINEER	APPROVED FOR PUBLICATION HANS P. HUMBER REGISTERED PROFESSIONAL ENGINEER NO. 34535 DATE SEALED: 2/15/2019	DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION (NOTES) <small>(NOT TO SCALE)</small> CITY STANDARD 03.10.01-2
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1 DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION
NOT TO SCALE

2 DOUBLE DETECTOR-CHECK VALVE ASSEMBLY INSTALLATION (NOTES)
NOT TO SCALE



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

Sheet No.
C4.6
24 of 25 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 11/20/2024

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



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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.

- f. Samples for bacteriological analysis shall be collected after flushing and again 24 hours after the first set of samples.
- g. All closure/final connection fittings shall be sprayed clean and then swabbed with a five percent (5%) chlorine solution immediately prior to installation per AWWA Standard C651. Additional samples for bacteriological analysis shall be collected from the immediate vicinity of the new or replaced water main and analyzed after the final connections are made. If necessary, additional flushing shall be conducted and additional samples shall be collected until satisfactory results are obtained.

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

10/8/2024



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**City of Puyallup
Development & Permitting Services
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Sheet Title:

WATER AND SEWER NOTES AND DETAILS

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

Sheet No.

C4.7

25 of 25 Sheets



1 WATER SYSTEM NOTES

NOT TO SCALE