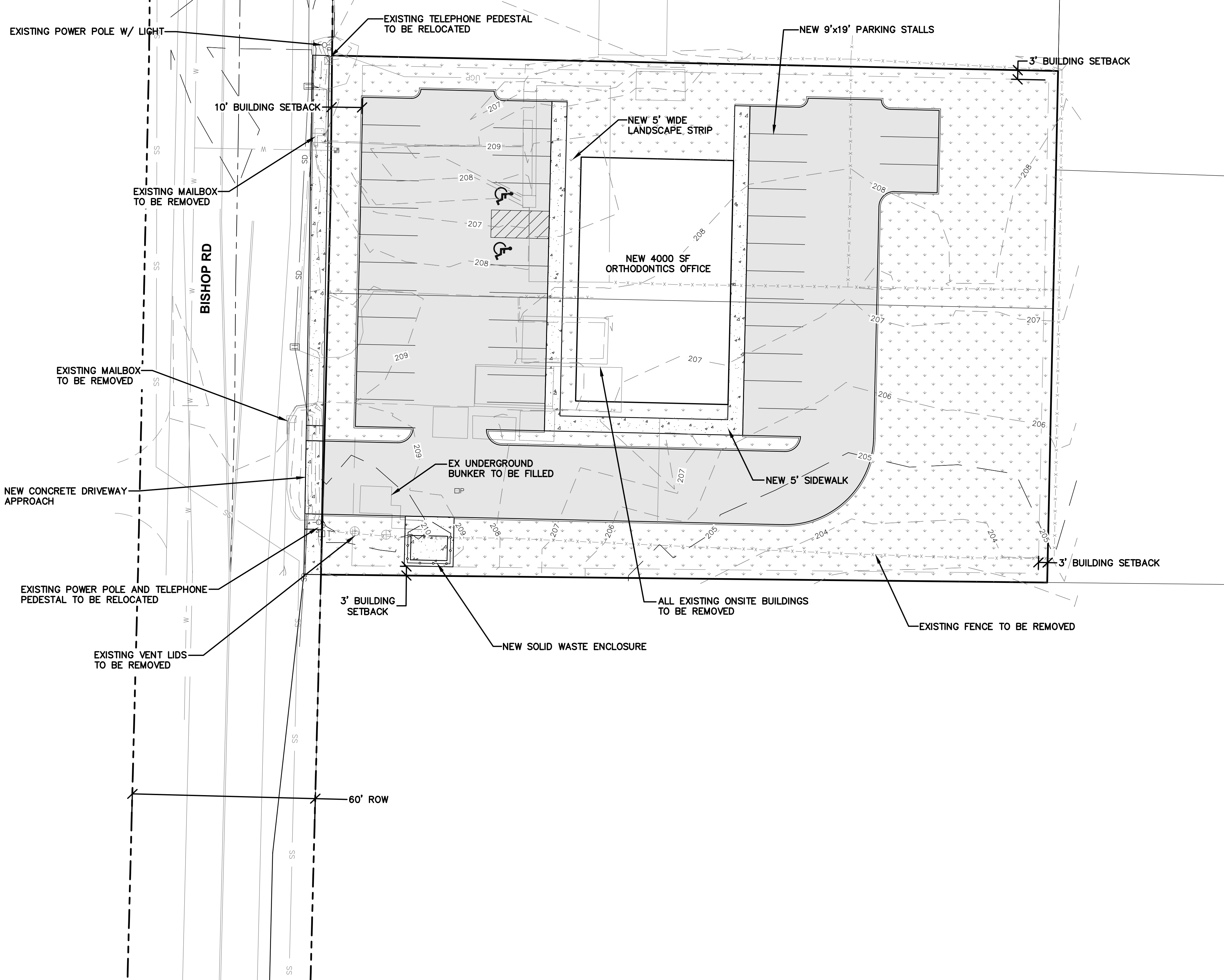
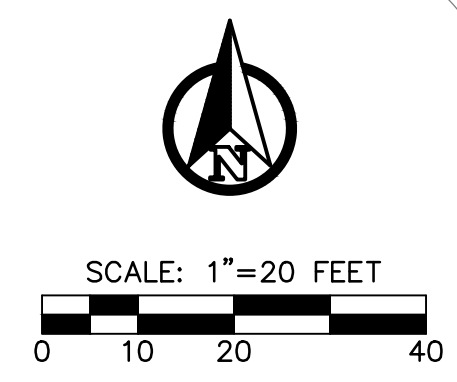
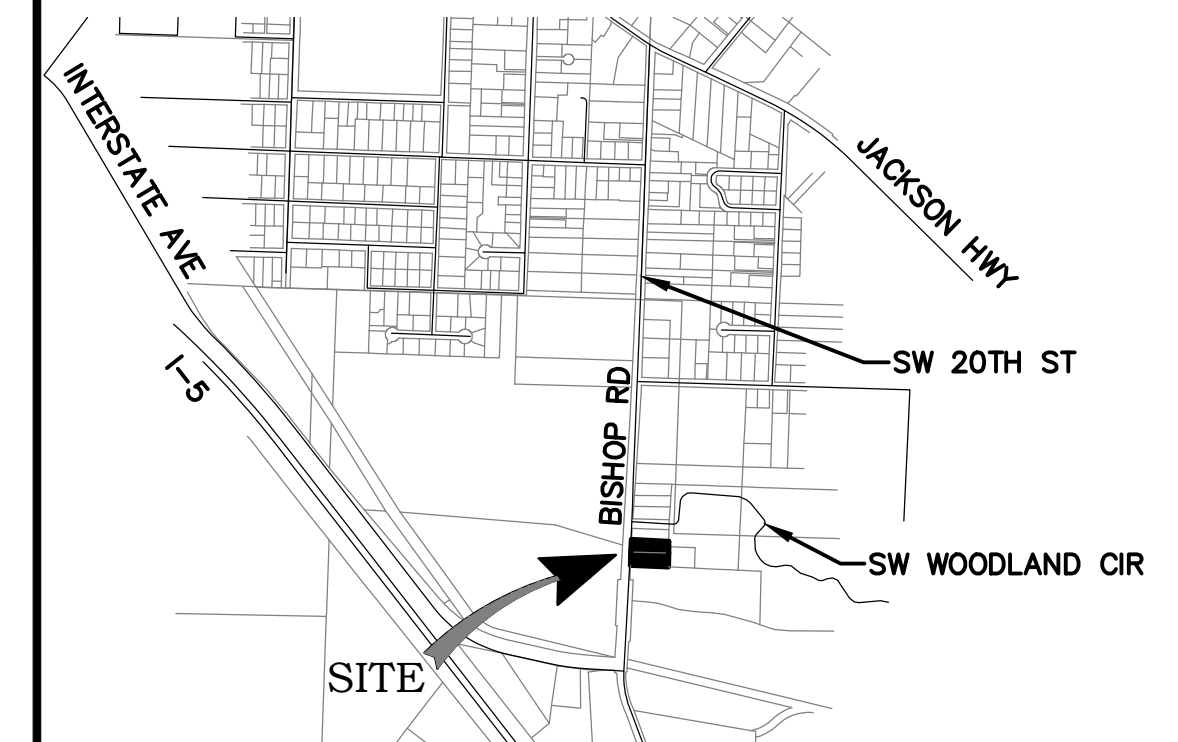


WAGNER ORTHODONTICS

SECTION 04, TOWNSHIP 13 NORTH, RANGE 02 WEST, W.M.
LEWIS COUNTY, WASHINGTON

VICINITY MAP



PROJECT INFORMATION

APPLICANT: PETER WAGNER
(360) 269 6993
PETER_WAGNER3@HOTMAIL.COM

PARCEL NOS: 01048000000
01047900000

SITE ADDRESS: 1319 & 1327 BISHOP RD
CHEHALIS, WA 98532

ZONING: CG - GENERAL COMMERCIAL

SITE AREA: 0.44 ACRES EACH

GRADING: XX± CY FILL

SOILS: LACAMAS SILT LOAM
PRATHER SILTY CLAY LOAM

SANITARY SEWER: CITY OF CHEHALIS

WATER: CITY OF CHEHALIS

FIRE DISTRICT: LEWIS COUNTY

SHEET INDEX

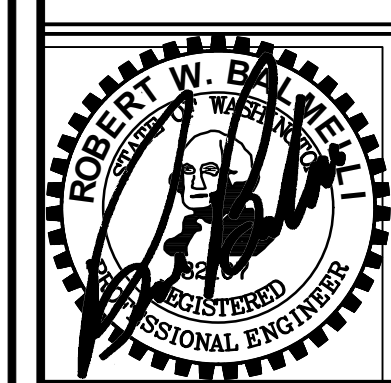
- P0.1 PRELIMINARY SITE PLAN
- P1.1 PRELIMINARY GRADING AND DRAINAGE PLAN
- P1.2 PRELIMINARY UTILITY PLAN
- P1.3 PRELIMINARY FRONTAGE IMPROVEMENT PLAN
- P1.4 PRELIMINARY DETAILS AND CROSS SECTIONS
- LS1.1 PRELIMINARY LANDSCAPE PLAN

NO.	DATE	REVISION

DESIGNED BY: ZRW
 DRAWN BY: ZRW
 CHECKED BY: RWB
 DATE: 7/6/22
 SCALE: WA.

WAGNER ORTHODONTICS
 CHEHALIS

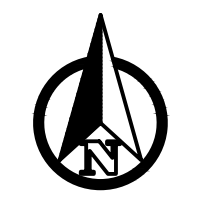
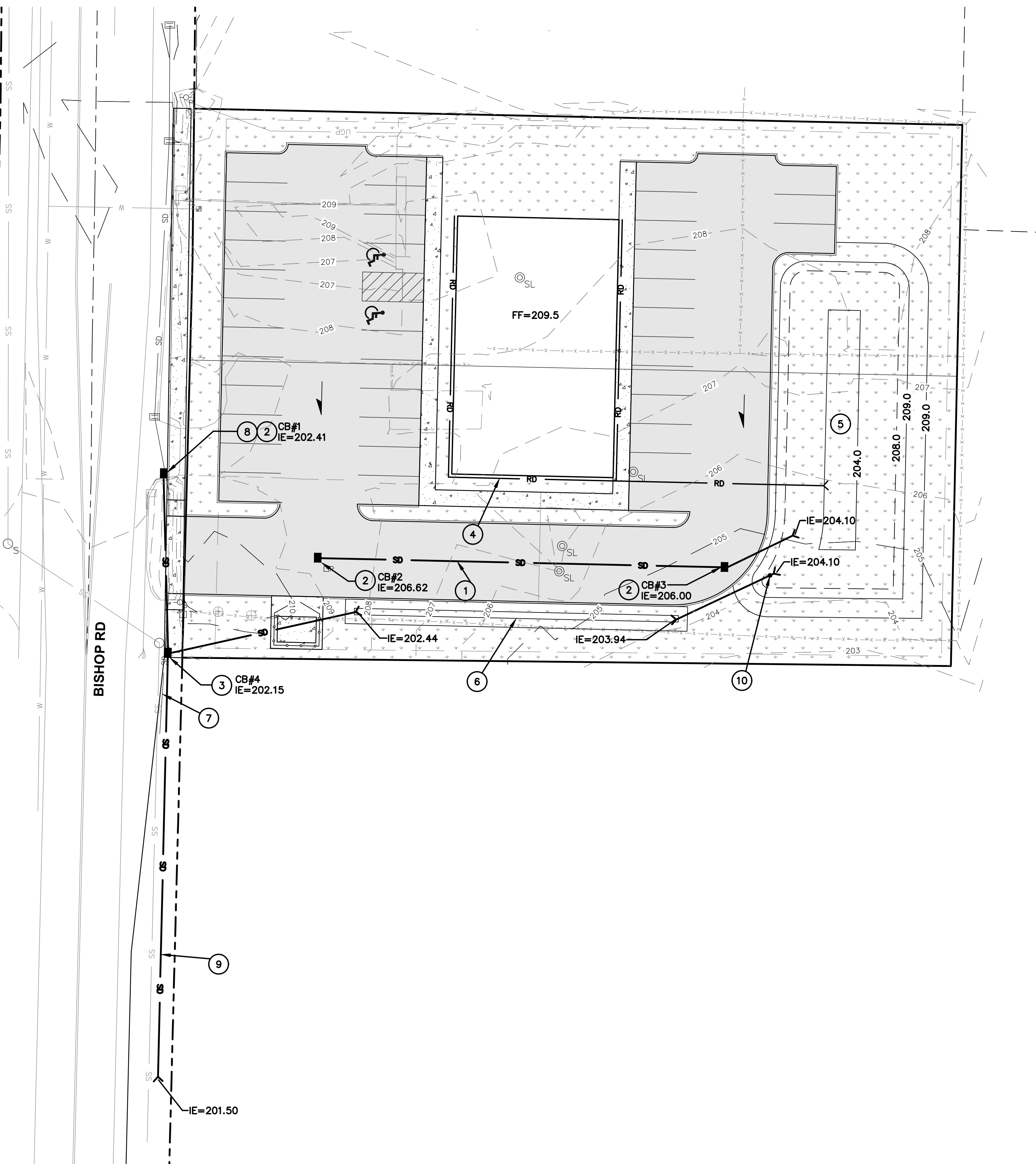
PRELIMINARY SITE PLAN



RB Engineering
 DESIGN → PERMIT → MANAGE
 P.O. Box 923
 CHEHALIS, WA 98532
 OFF: (360) 740-8919
 EMAIL: CarlProse@RBEngineers.com

811 Know what's below. Call 811 before you dig.

JOB NUMBER: 21140
 DRAWING NAME: 21140_PSP
P0.1
 1 OF 6



SCALE: 1"=20 FEET
 0 10 20 40

GRADING AND DRAINAGE CONSTRUCTION NOTES:

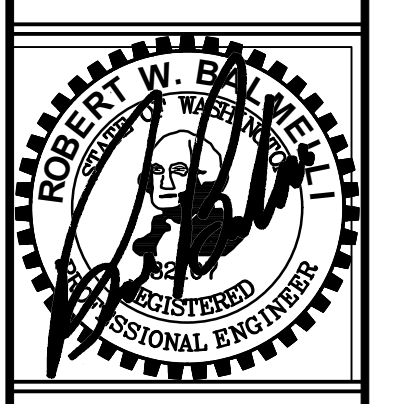
- ① INSTALL ADS N-12 OR EQUAL STORM DRAIN PIPE PER PLAN.
- ② INSTALL TYPE 1 CATCHBASINS PER PLAN AND DETAIL ON SHEET P1.4.
- ③ INSTALL NEW CURB INLET CATCH BASIN PER PLAN AND DETAIL ON SHEET P1.4.
- ④ INSTALL 6 INCH SDR 35 PVC ROOF DRAIN.
- ⑤ GRADE NEW DETENTION POND PER PLAN AND CROSS SECTION ON SHEET P1.4.
- ⑥ GRADE NEW 2' WIDE BIO-SWALE PER PLAN AND DETAIL ON SHEET P1.4.
- ⑦ REMOVE EXISTING STORM CULVERT.
- ⑧ CONNECT EXISTING STORM PIPE TO NEW CATCH BASIN.
- ⑨ DAYLIGHT NEW STORM PIPE TO EXISTING DITCH ROUGHLY 130' SOUTH OF PROPERTY.
- ⑩ INSTALL FLOW CONTROL STRUCTURE IN POND PER PLAN AND DETAIL ON SHEET P1.4.

NO.	DATE	REVISION

DESIGNED BY: ZRW
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 CHECKED BY: RWB
 DATE: 7/6/22
 SCALE: WA.

WAGNER ORTHODONTICS
 CHEHALIS WA.

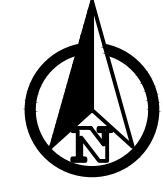
PRELIMINARY GRADING AND DRAINAGE PLAN



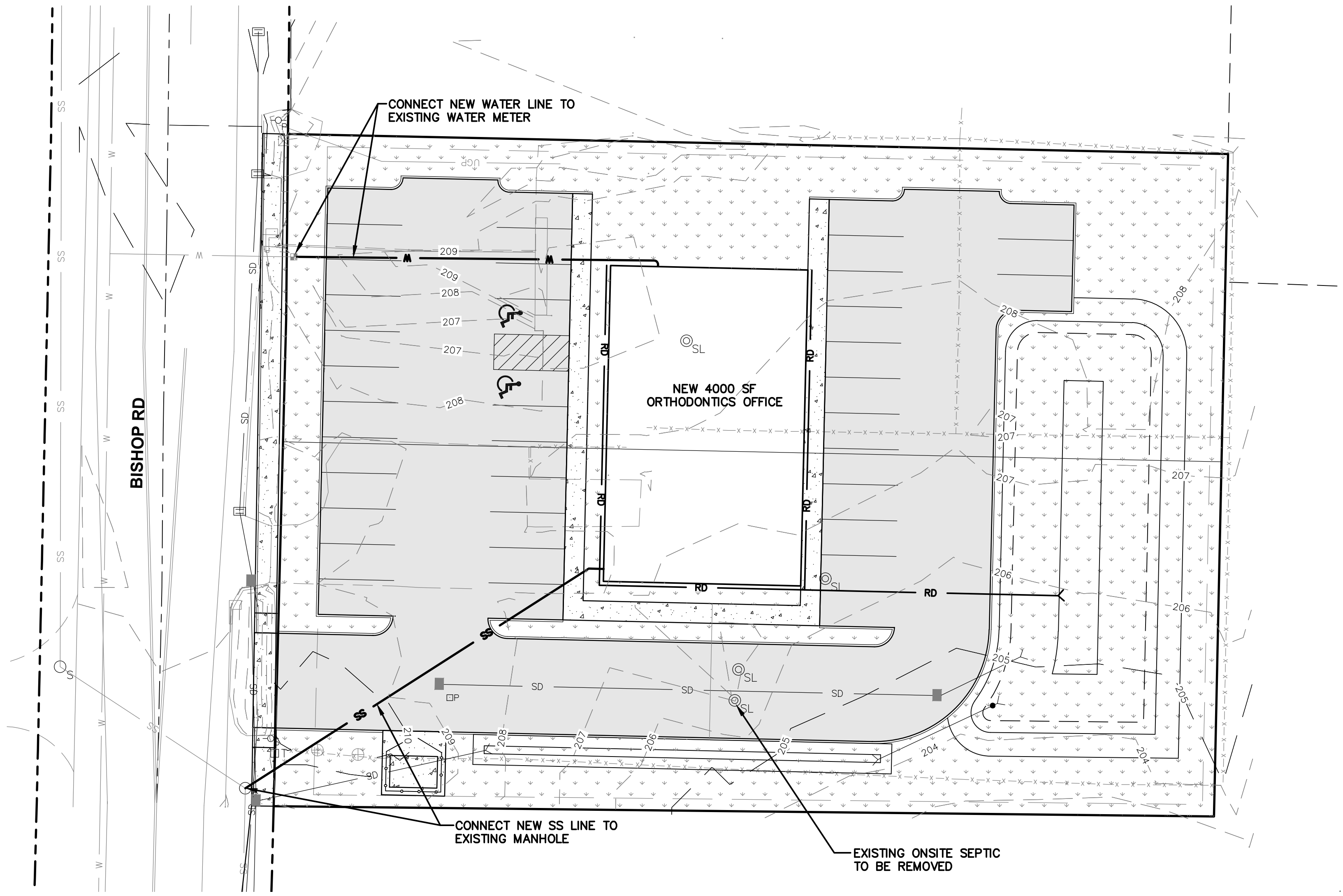
RB Engineering
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 CHEHALIS, WA 98532
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 EMAIL: CarlPross@RBEngineers.com

811 Know what's below. Call 811 before you dig.

JOB NUMBER
 21140
 DRAWING NAME
 21140_PGDP
P1.1
 2 OF 6



SCALE: 1"=20 FEET
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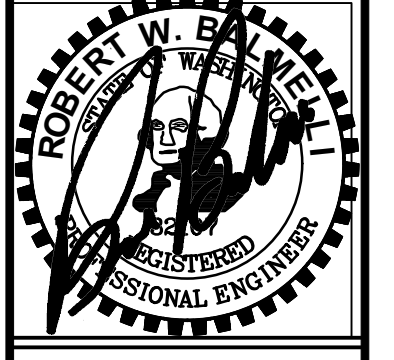


NO.	DATE	REVISION

DESIGNED BY: ZRW
 DRAWN BY: ZRW
 CHECKED BY: RWB
 DATE: 7/6/22
 SCALE: WA.

WAGNER ORTHODONTICS
 CHEHALIS

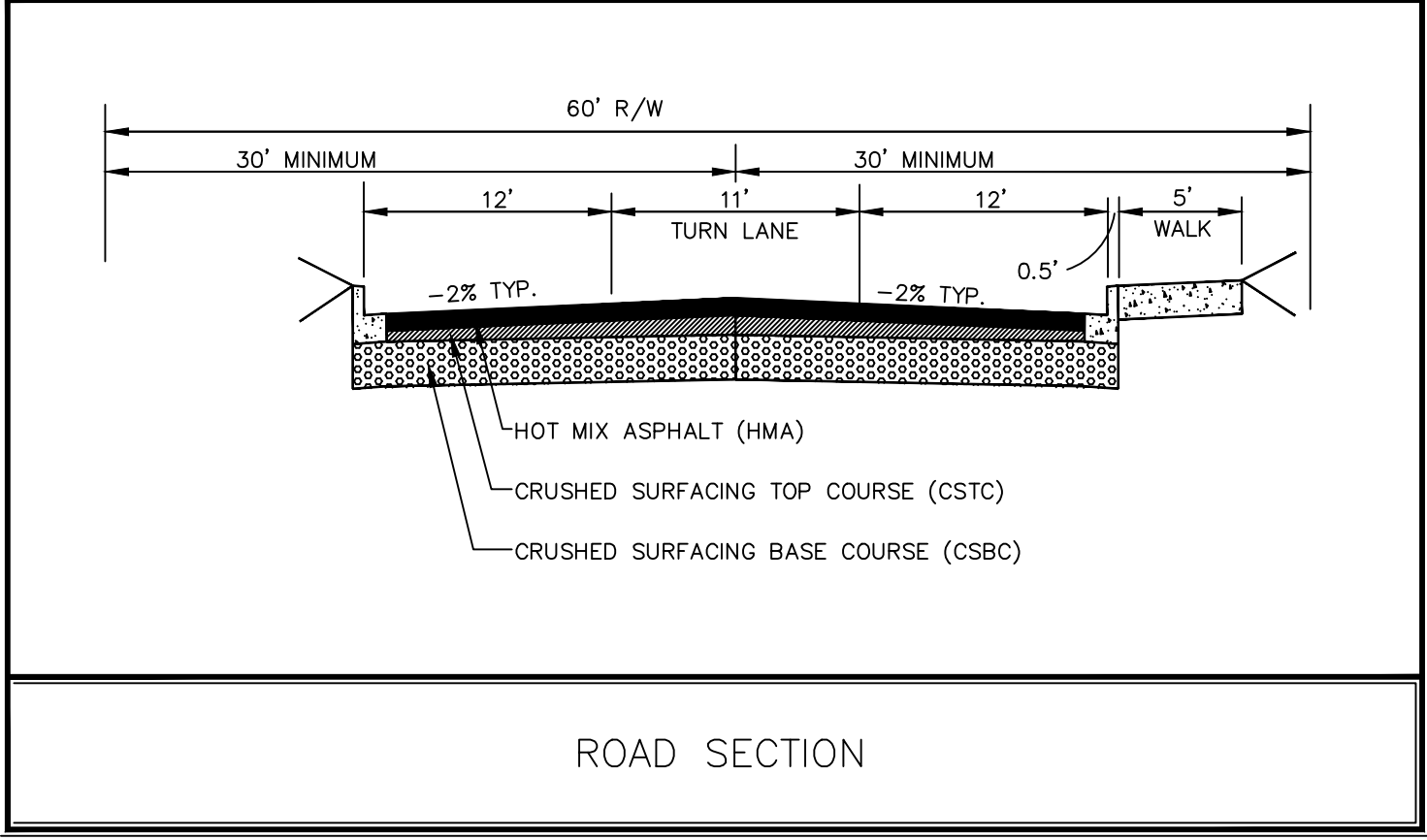
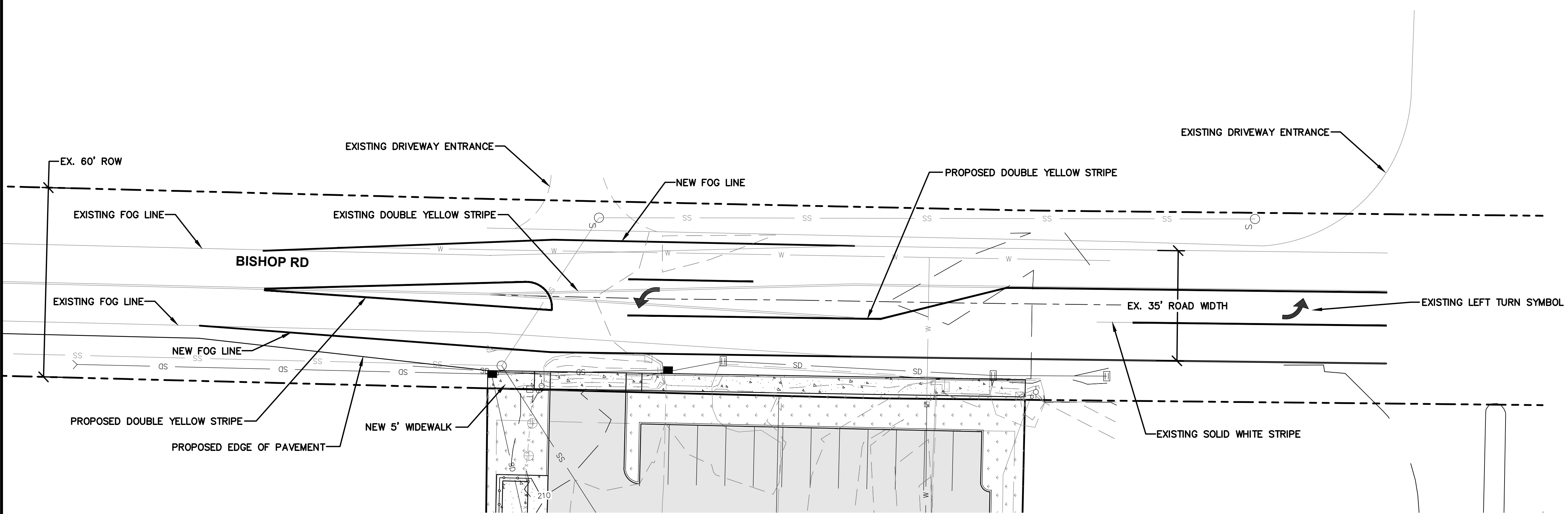
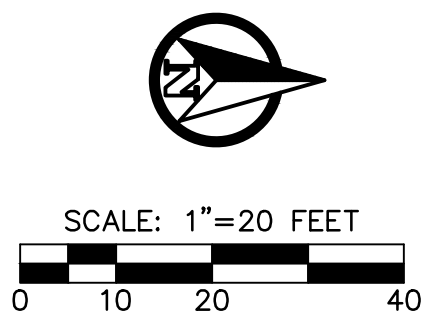
PRELIMINARY UTILITY PLAN



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 P.O. Box 923
 CHEHALIS, WA 98532
 OFF: (360) 740-8819
 EMAIL: CmdPro@RBEngineers.com

811 Know what's below. Call 811 before you dig.

JOB NUMBER
 21140
 DRAWING NAME
 21140_PUP
P1.2
 3 OF 6

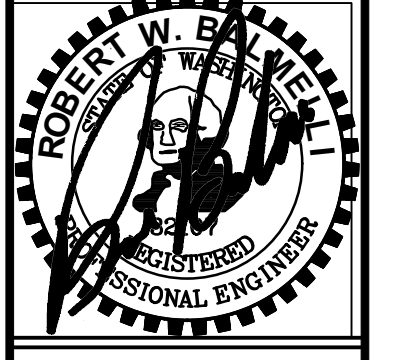


NO.	DATE	REVISION

DESIGNED BY: ZRW
 DRAWN BY: ZRW
 CHECKED BY: RWB
 DATE: 7/6/22
 SCALE:

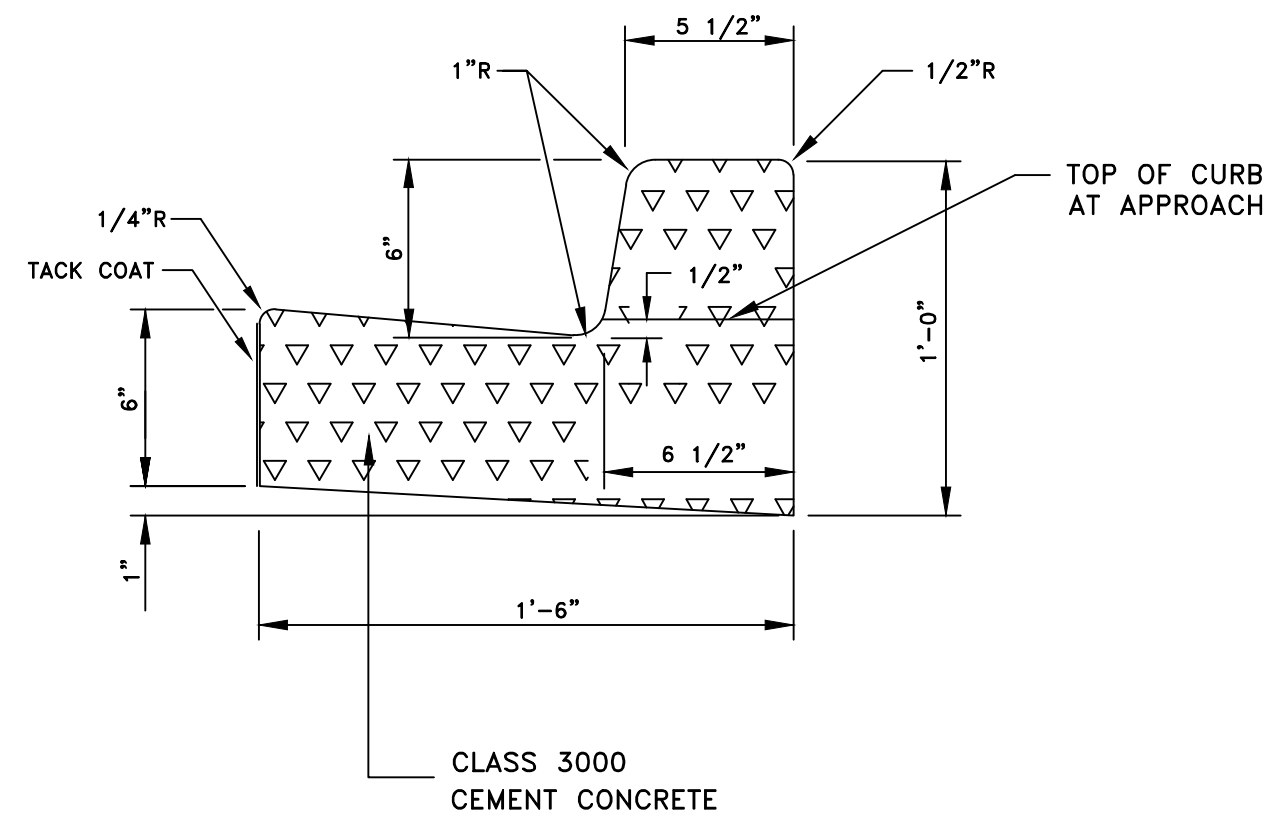
WAGNER ORTHODONTICS
 CHEHALIS WA.

**PRELIMINARY FRONTAGE
 IMPROVEMENT PLAN**



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 CHEHALIS, WA 98532
 OFF: (360) 740-8919
 EMAIL: info@rbengineers.com

811 Know what's below. Call 811 before you dig.
 JOB NUMBER: 21140
 DRAWING NAME: 21140_PFI
P1.3
 4 OF 6

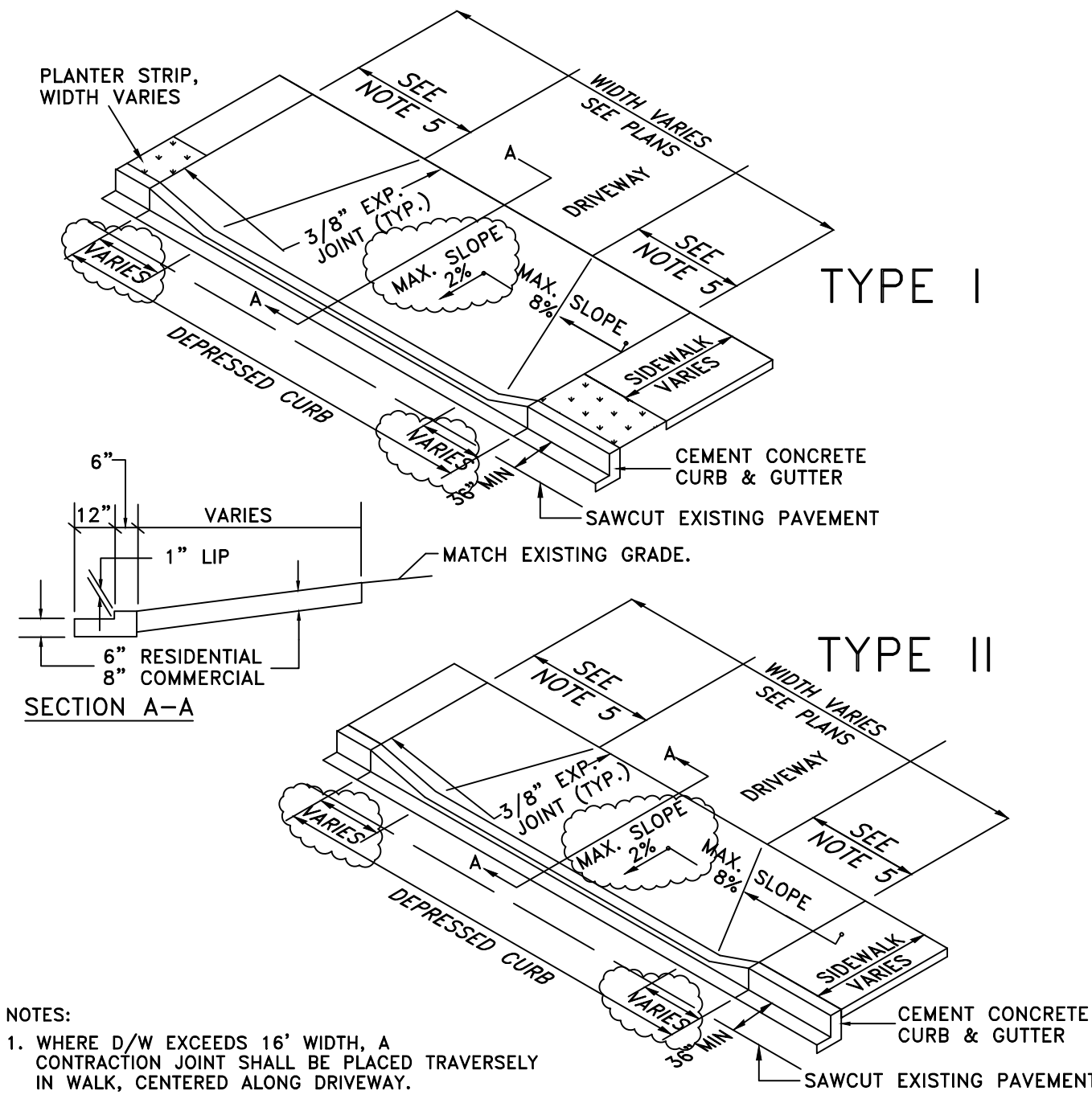


GENERAL NOTES:

1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. SUBGRADE AND BASE REQUIREMENTS SHALL BE THE SAME AS FOR PAVEMENT RESTORATION.

<i>City of Chehalis</i>	
CEMENT CONCRETE CURB & GUTTER	
APPROVED BY	DWG. NO.
	2-7
	REVISED DATE
	1/02/2003
CITY ENGINEER	

Drawing Not to Scale

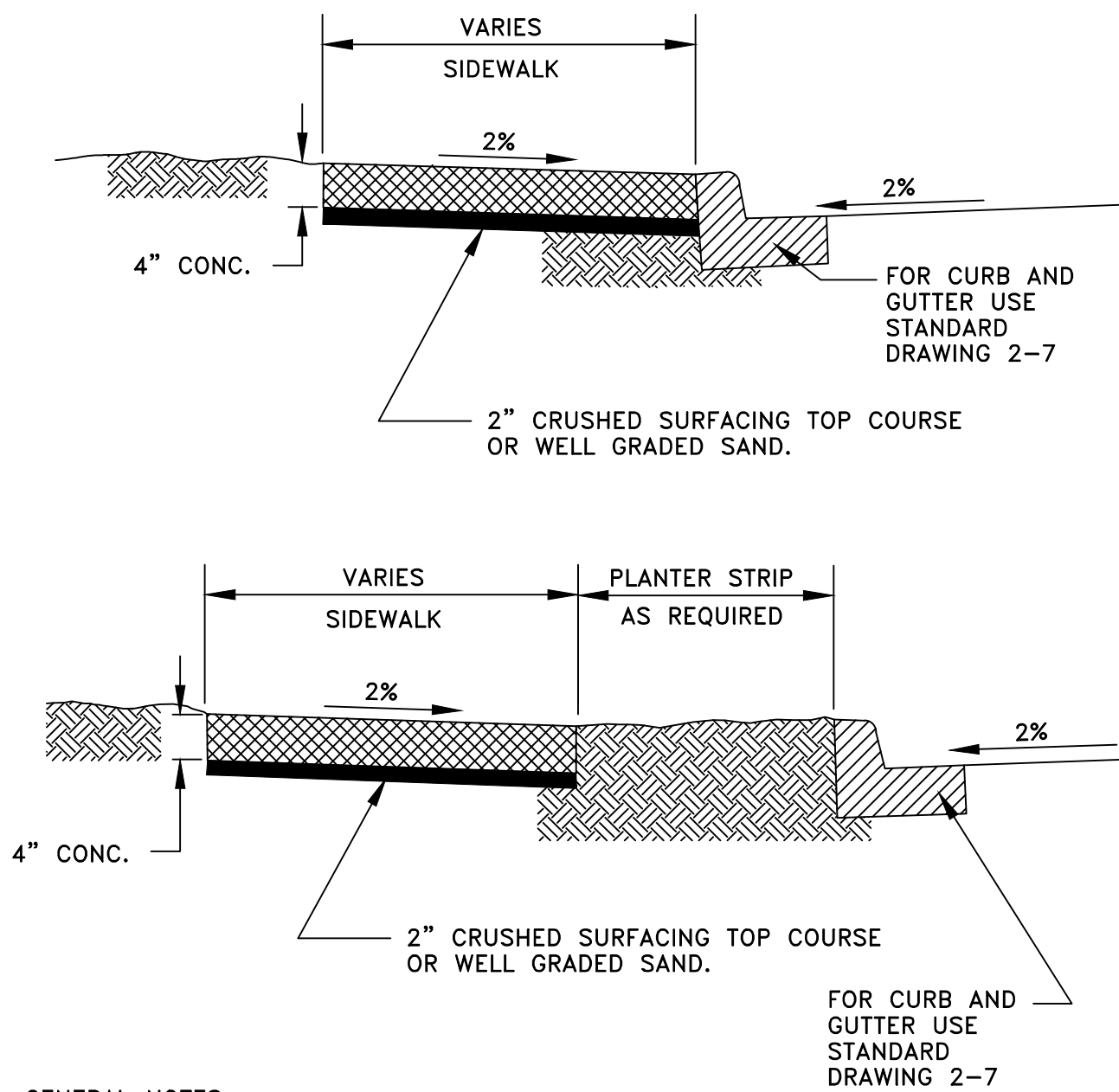


NOTES:

1. WHERE D/W EXCEEDS 16' WIDTH, A CONTRACTION JOINT SHALL BE PLACED TRAVERSELY IN WALK, CENTERED ALONG DRIVEWAY.
2. EXPANSION JOINTS ARE REQUIRED TO ENSURE ISOLATION WHEN NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE OR EXISTING FEATURES.
3. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS.
4. FORM AND SUBGRADE INSPECTION ARE REQUIRED BEFORE PLACING CONCRETE.
5. TRANSITION WIDTH WILL VARY DEPENDING ON DRIVEWAY SLOPE. MAINTAIN MAXIMUM 12:1 TRANSITION SLOPE.
6. WHEN CHECKED WITH A 10 FOOT STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8 INCH & ALIGNMENT SHALL NOT VARY MORE THAN 1/4 INCH.
7. BROOM FINISH LONGITUDINALLY WITH LIGHT BROOM FINISH.

<i>City of Chehalis</i>	
CEMENT CONCRETE DRIVEWAY	
APPROVED BY	DWG. NO.
	2-8
	REVISED DATE
	4/14/2010
CITY ENGINEER	

Drawing Not to Scale

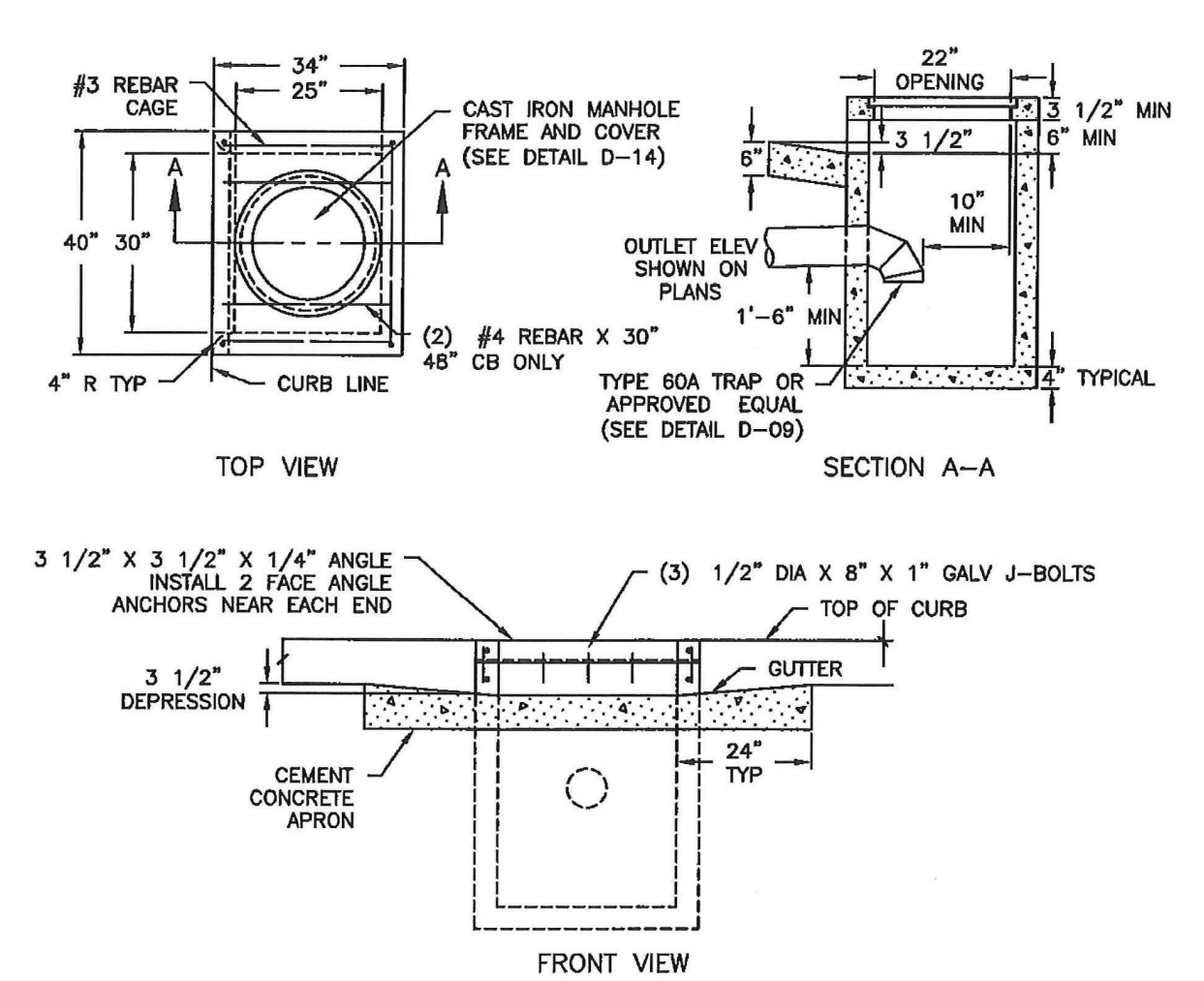


GENERAL NOTES:

1. REFER TO STANDARD DRAWING 2-10 FOR INFORMATION ON JOINTS AND SCORING.
2. SIDEWALK ACROSS CONCRETE DRIVEWAYS REQUIRE A MINIMUM DEPTH OF 6" FOR RESIDENTIAL DRIVES & 8" FOR ALL OTHER DRIVES.
3. WHEN CHECKED WITH A 10' STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8 INCH & ALIGNMENT SHALL NOT VARY MORE THAN 1/4 INCH.

<i>City of Chehalis</i>	
SIDEWALK	
APPROVED BY	DWG. NO.
	2-9
	REVISED DATE
	1/02/2003
CITY ENGINEER	

Drawing Not to Scale



NOTES:

1. LATERALS WILL BE CONSTRUCTED TO ENTER THE BASIN PERPENDICULAR TO THE BASIN WALL. THE LATERAL WILL ENTER ONLY AT THE FRONT OR SIDE OF THE BASIN WITH NO LATERALS ALLOWED TO ENTER THE CATCH BASIN AT THE CORNERS. IF NEEDED, A BEND MAY BE USED AS THE FIRST SECTION OF PIPE OUTSIDE THE BASIN WALL. THE MAXIMUM BEND ALLOWED IS 45 DEGREES.
2. ALL REINFORCED STEEL SHALL HAVE A 1-1/2" CLEAR COVER UNLESS OTHERWISE NOTED, AND SHALL BE GRADE 40 OR GRADE 60 (ASTM A-615).
3. ANY PROTRUDING ENDS OF PIPES SHALL BE TRIMMED FLUSH WITH THE INSIDE WALLS AND GROUTED.
4. THE METAL FRAME AND GRATE SHALL BE SET TO A SLOPE TO CONFORM TO THE PARTICULAR DRAINAGE AREA (SEE DETAIL D-08).
5. ELBOW SECTION SHALL BE REMOVABLE FOR MAINTENANCE PURPOSES USING A BELL AND SPIGOT JOINT.
6. ALL PRECAST OR CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.

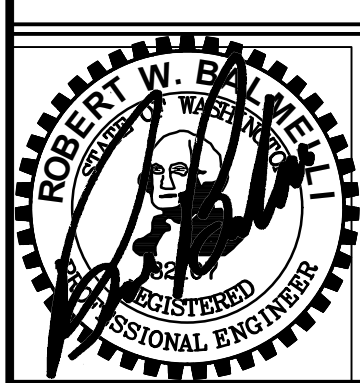
<i>City of Chehalis</i>	
CURB INLET	
APPROVED BY	DWG. NO.
	2-9
	REVISED DATE
	1/02/2003
CITY ENGINEER	

Drawing Not to Scale

NO.	DATE	REVISION
DESIGNED BY:	ZRW	
DRAWN BY:	ZRW	
CHECKED BY:	RWB	
DATE:	7/6/22	
SCALE:		

WAGNER ORTHODONTICS
 WA.
 CHEHALIS

PRELIMINARY DETAILS AND CROSS SECTIONS



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 OFF: (360) 740-8919
 EMAIL: info@rbengineers.com
 P.O. Box 923
 CHEHALIS, WA 98532

811 Know what's below. Call 811 before you dig.
 JOB NUMBER: 21140
 DRAWING NAME: 21140_PDCS
P1.4
 5 OF 6

<p>EFFECTIVE: August 5, 2018 TO September 2, 2019</p> <p>RECTANGULAR ADJUSTMENT SECTION</p> <p>PRECAST BASE SECTION</p> <p>EFFECTIVE: August 5, 2018 TO September 2, 2019</p>	<p>EFFECTIVE: August 5, 2018 TO September 2, 2019</p> <table border="1"> <thead> <tr> <th colspan="2">PIPE ALLOWANCES</th> </tr> <tr> <th>PIPE MATERIAL</th> <th>MAXIMUM INSIDE DIAMETER (INCHES)</th> </tr> </thead> <tbody> <tr> <td>REINFORCED OR PLAIN CONCRETE</td> <td>12"</td> </tr> <tr> <td>ALL METAL PIPE</td> <td>15"</td> </tr> <tr> <td>CPRESE # (STD. SPEC. SECT. 9-05.23)</td> <td>12"</td> </tr> <tr> <td>SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))</td> <td>15"</td> </tr> <tr> <td>PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))</td> <td>15"</td> </tr> </tbody> </table> <p>* CORRUGATED POLYETHYLENE STORM SEWER PIPE</p> <p>NOTES:</p> <ol style="list-style-type: none"> 1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts. 2. The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3. 3. The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft). 4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up. 5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper. 6. The opening shall be measured at the top of the Precast Base Section. 7. All pickup holes shall be grouted full after the basin has been placed. <p style="text-align: center;"> Jake Heilman PROFESSIONAL ENGINEER STANDARD PLAN B-5.20-02 SHEET 1 OF 1 SHEET APPROVED FOR PUBLICATION DATE: 06/26/2018 4:44 AM WASHINGTON STATE DEPARTMENT OF TRANSPORTATION </p> <p>EFFECTIVE: August 5, 2018 TO September 2, 2019</p>	PIPE ALLOWANCES		PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)	REINFORCED OR PLAIN CONCRETE	12"	ALL METAL PIPE	15"	CPRESE # (STD. SPEC. SECT. 9-05.23)	12"	SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	15"	PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	15"
PIPE ALLOWANCES															
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)														
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SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	15"														
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	15"														

NOTES:

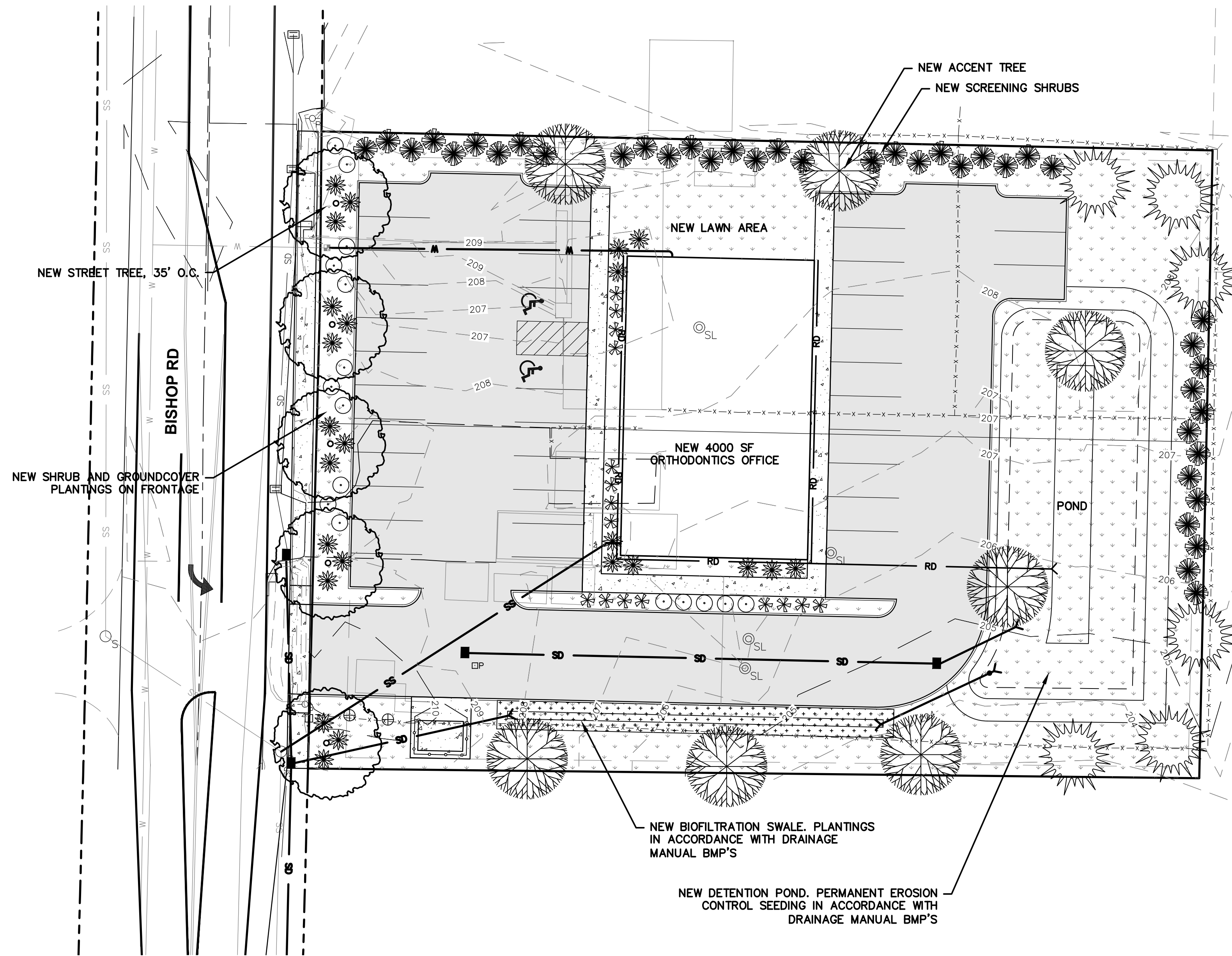
1. THE UNCOMPACTED SAND LAYING COURSE SHALL BE SPREAD EVENLY OVER THE SUBGRADE, SCREEDED LEVEL AND COMPACTED.
2. ONCE SCREEDED, LEVELED, AND COMPACTED TO THE DESIRED ELEVATION THIS SAND LAYING COURSE SHALL NOT BE DISTURBED IN ANY WAY.
3. MATURE SOD (6 MONTHS OLD)
 40% TALL FESCUE
 40% PERENNIAL RYE
 20% CREEPING FESCUE
 10% HIGHLAND BENT

 BIOFILTRATION SWALE DETAIL N.T.S.	RB ENGINEERING BIOFIL_SWALE.2.dwg
---	--------------------------------------

 DETENTION POND N.T.S.	RB ENGINEERING DTN_PND.dwg
-------------------------------------	-------------------------------



SCALE: 1"=20 FEET
0 10 20 40



36 ** PERIMETER BUFFER SHRUBS
Photinia x fraseri
Myrica californica
Evergreen Photinia
Pacific Wax Myrtle
5 GAL. 10' O.C.

PRELIMINARY PLANT SCHEDULE

SYMBOL	QTY*	BOTANICAL NAME	COMMON NAME	SIZE	SPACING (NOTES)
	9	SHADE & STREET TREE <i>Acer rubrum 'Franksred'</i> <i>Liquidambar styraciflua</i> <i>Pyrus calleryana</i> <i>Tilia cordata</i>	Red Sunset Maple American Sweetgum Flowering Pear Little-leaf Linden	2.0" CAL. MIN.	B&B/cont.
	18	DECIDUOUS ACCENT TREE <i>Cercis canadensis</i> <i>Cerciphyllum japonicum</i> <i>Fraxinus oxycarpa 'Aureofolia'</i> <i>Betula jacquemontii</i>	Eastern Redbud Katsura Tree Golden Desert Ash Whitebark Himalayan Birch	2" CAL. MIN.	B&B/cont.
	37	EVERGREEN BUFFER TREE <i>Chamaecyparis nootkatensis</i> <i>Pinus nigra</i> <i>Calocedrus decurrens</i> <i>Cedrus decurrens</i>	Alaskan Weeping Cedar Austrian Pine Incense Cedar Deodar Cedar	7-8' HT. MIN.	B&B/cont.
	45 **	SCREENING SHRUBS <i>Thuja occidentalis</i> <i>Euonymus alata 'Compacta'</i> <i>Ilex crenata</i> <i>Prunus lusitanica</i>	Emerald Green Arborvitae Dwarf Burning Bush Japanese Holly Portugese Laurel	5 GAL.	5' O.C.
	* 25	ORNAMENTAL PLANTINGS <i>Nandina domestica</i> <i>Prunus laurocerasus</i> <i>Spirea x bumalda</i> <i>Pieris japonica</i>	Heavenly Bamboo 'Otto Luyken' Laurel Gold Mound Spirea 'Lilly Of The Valley' Shrub	3 GAL.	(3)/800SF
		LOW GROWING SHRUB/GROUNDCOVERS <i>Viburnum davidii</i> <i>Euonymus fortunei</i> <i>Archostaphylos uva-ursi</i> <i>Erica</i> <i>Spirea japonica</i> <i>Azalea</i> <i>Cotoneaster dammerii</i> <i>Gaultheria shallon</i>	David's Viburnum 'Emerald Gaiety' Euonymus Kinnickinnick Heather asstd. 'Little Princess' Spirea Azalea spp. Bearberry Salal		
		SEEDED TURF AREA			
		BIOFILTRATION SEED MIX Seed or specie mix as required by the Drainage Manual			

* PRELIMINARY QUANTITY BASED ON MINIMUM CODE REQUIREMENTS. THE FINAL LANDSCAPE PLAN SHALL BE REVIEWED AND APPROVED ILLUSTRATING THE ACTUAL LANDSCAPE PLANT MATERIALS PROPOSED FOR CONSTRUCTION.
** SOME SCREENING MATERIAL IS NOT REQUIRED BY CODE
FINAL LANDSCAPE PLANTING PLANS SHALL ILLUSTRATE LANDSCAPE INSTALLATION DETAILS.
AREA TAKE OFF ESTIMATE:
SHRUB/GC AREA: 10,920 S.F. ORNAMENTAL/BUFFER INCL. LAWN AREAS & PARKING ISLANDS
POND AREA (EST): 7,775 S.F.
BIOFILTRATION AREA: 850 S.F.
TOTAL LANDSCAPE AREA TO PREP: 19,545 SQUARE FEET
EDGING: (TO BE DETERMINED)
SAFETY SURFACE: N/A

NO.	DATE	REVISION
DESIGNED BY:	CLA	
DRAWN BY:	CLA	
CHECKED BY:	RWB	
DATE:	X/XX/XX	
SCALE:		
PRELIMINARY LANDSCAPE PLAN		WAGNER ORTHODONTICS
PRELIMINARY LANDSCAPE PLAN		CHEHALIS
		WA.
		OFF: (360) 746-8919 FAX: (360) 746-8912 P.O. Box 923 CHEHALIS, WA 98532
CIVIL ENGINEERING - LAND PLANNING - UTILITIES JOB NUMBER: 21140 DRAWING NAME: 21140_PLSP LS1.1 6 OF 5		