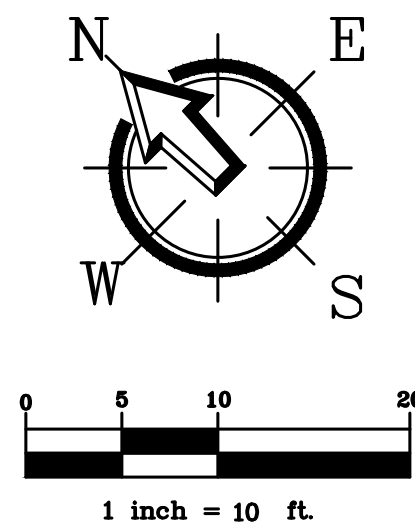


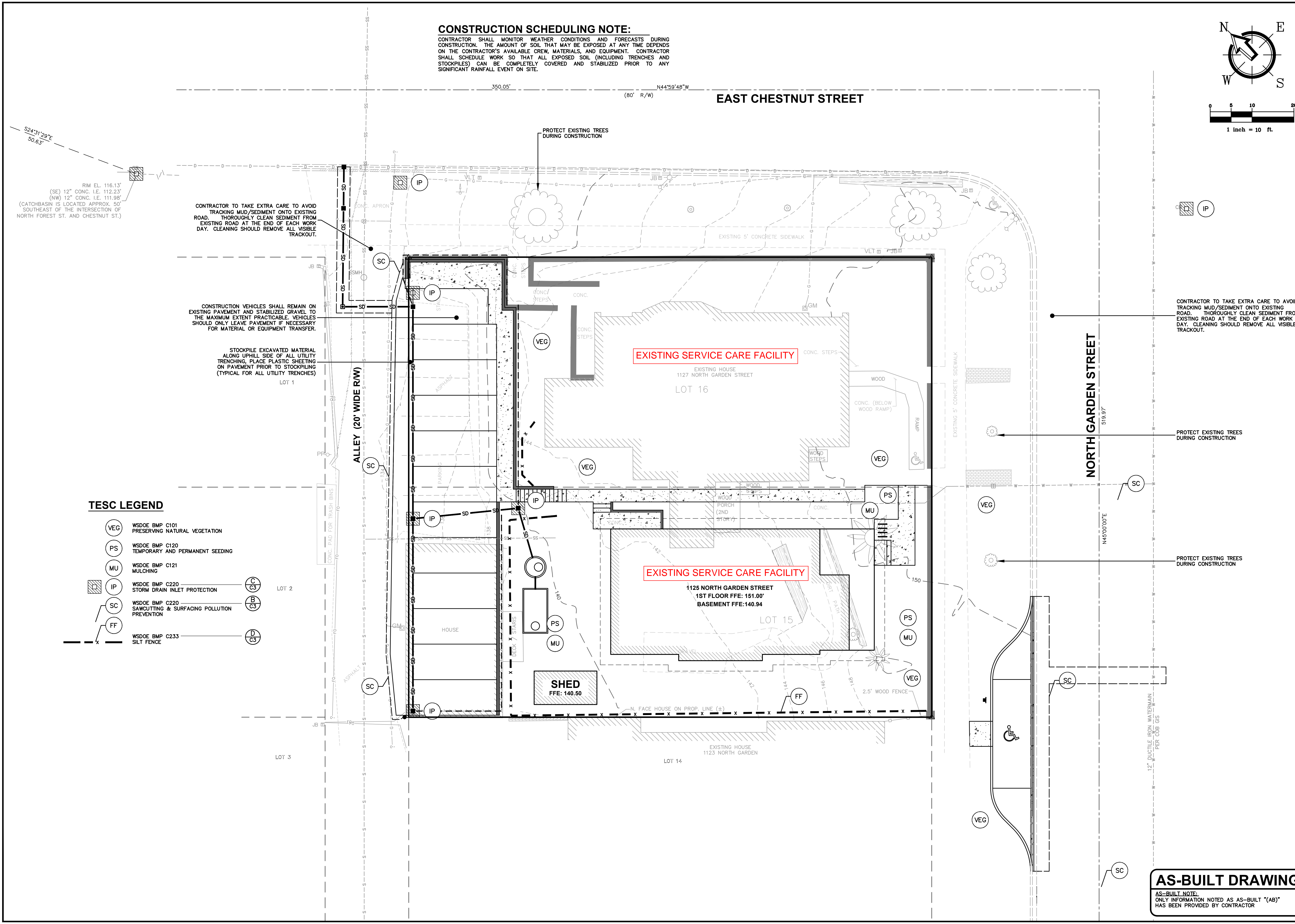
CONSTRUCTION SCHEDULING NOTE:

CONTRACTOR SHALL MONITOR WEATHER CONDITIONS AND FORECASTS DURING CONSTRUCTION. THE AMOUNT OF SOIL THAT MAY BE EXPOSED AT ANY TIME DEPENDS ON THE CONTRACTOR'S AVAILABLE CREW, MATERIALS, AND EQUIPMENT. CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL EXPOSED SOIL (INCLUDING TRENCHES AND STOCKPILES) CAN BE COMPLETELY COVERED AND STABILIZED PRIOR TO ANY SIGNIFICANT RAINFALL EVENT ON SITE.



220 West Commerce Street, Suite 200
Bellingham, WA 98225
T: 360.650.1409
F: 360.650.1401

**FREELAND
& ASSOCIATES**



TESC LEGEND

- WSDOE BMP C101 PRESERVING NATURAL VEGETATION
- WSDOE BMP C120 TEMPORARY AND PERMANENT SEEDING
- WSDOE BMP C121 MULCHING
- WSDOE BMP C220 STORM DRAIN INLET PROTECTION
- WSDOE BMP C220 SAWCUTTING & SURFACING POLLUTION PREVENTION
- WSDOE BMP C233 SILT FENCE
- C1
- B1
- D1

CONTRACTOR TO TAKE EXTRA CARE TO AVOID TRACKING MUD/SEDIMENT ONTO EXISTING ROAD. THOROUGHLY CLEAN SEDIMENT FROM EXISTING ROAD AT THE END OF EACH WORK DAY. CLEANING SHOULD REMOVE ALL VISIBLE TRACKOUT.

CONSTRUCTION VEHICLES SHALL REMAIN ON EXISTING PAVEMENT AND STABILIZED GRAVEL TO THE MAXIMUM EXTENT PRACTICABLE. VEHICLES SHOULD ONLY LEAVE PAVEMENT IF NECESSARY FOR MATERIAL OR EQUIPMENT TRANSFER.

STOCKPILE EXCAVATED MATERIAL ALONG UPHILL SIDE OF ALL UTILITY TRENCHING. PLACE PLASTIC SHEETING ON PAVEMENT PRIOR TO STOCKPILING (TYPICAL FOR ALL UTILITY TRENCHES)

CONTRACTOR TO TAKE EXTRA CARE TO AVOID TRACKING MUD/SEDIMENT ONTO EXISTING ROAD. THOROUGHLY CLEAN SEDIMENT FROM EXISTING ROAD AT THE END OF EACH WORK DAY. CLEANING SHOULD REMOVE ALL VISIBLE TRACKOUT.

PROTECT EXISTING TREES DURING CONSTRUCTION

PROTECT EXISTING TREES DURING CONSTRUCTION

12" DUCTILE IRON WATERMAIN PER COB 05

REV.	DATE	DESCRIPTION

CLIENT:
GARDEN STREET INVESTMENTS, LLC
5449 ALDRICH ROAD
BELLINGHAM, WA 98226
CALL BEFORE YOU DIG
FOR BURIED UTILITY LOCATIONS
1-800-424-5555

PROJECT LOCATION:
4 UNIT ROOMING HOUSE
1125 NORTH GARDEN STREET
BELLINGHAM, WA 98225
DRAWING #: 13197AB1.DWG
DESIGNED BY: JPS
DRAWN BY: ERP
CHECKED BY: MDB

SHEET CONTENTS:
TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN



AS-BUILT DRAWING

AS-BUILT NOTE:
ONLY INFORMATION NOTED AS AS-BUILT *(AB)* HAS BEEN PROVIDED BY CONTRACTOR

JOB #: 13197	DATE: 5-3-2017
SCALE: HORIZ: 1"=10' VERT: N/A	SHEET: C2

ELEMENT 1: MARK CLEARING LIMITS. THE SITE IS CURRENTLY UNDEVELOPED (LAWN/LANDSCAPING COVER), BUT IS LOCATED BETWEEN TWO MULTIFAMILY COMPLEXES. MINIMAL CLEARING WILL BE REQUIRED BECAUSE THE PROJECT SITE CONSISTS MAINLY OF GRASS.

- ELEMENT 2: ESTABLISH CONSTRUCTION ACCESS:
- CONSTRUCTION VEHICLES MAY ACCESS THE SITE THROUGH EXISTING PAVED ALLEY ADJACENT TO THE PROJECT. A TYPICAL CONSTRUCTION ENTRANCE DOES NOT APPEAR TO BE NECESSARY. IT IS ANTICIPATED THAT AN EXCAVATOR WILL BE BROUGHT ON SITE FROM THE ALLEY AND COMMENCE CLEARING, GRADING, AND EXCAVATING FOR FOOTINGS. SOIL WILL BE STOCKPILED AND TRANSFERRED TO HAUL VEHICLES PARKED ON THE STABILIZED ASPHALT PARKING AREA ADJACENT TO THE ALLEY. THE EXCAVATOR SHOULD REMAIN ON THE DISTURBED AREAS UNTIL ALL NECESSARY SOIL DISTURBANCE CONSTRUCTION ACTIVITIES ARE COMPLETE.
 - WHEEL WASHES OR TIRE BATHS DO NOT APPEAR TO BE NECESSARY SINCE CONSTRUCTION TRAFFIC WILL REMAIN ON THE EXISTING PAVED SURFACES OR ON THE EXPOSED SOILS. IF DEEMED NECESSARY DURING CONSTRUCTION, TIRE BATHS OR WHEEL WASHES WILL BE LOCATED ON SITE.
 - ANY SEDIMENT THAT IS TRACKED OR OTHERWISE DEPOSITED ONTO PAVED SURFACES SHALL BE THOROUGHLY CLEANED AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM PAVED AREAS BY SHOVELING OR VACUUM SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
 - STREET WASHING WILL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THE MANNER DESCRIBED IN PART d) ABOVE.

- ELEMENT 3: CONTROL FLOW RATES:
- THE PROPOSED DETENTION VAULT SHALL BE SCHEDULED TO BE INSTALLED AS EARLY IN THE CONSTRUCTION PROCESS AS POSSIBLE.
 - THE CITY OF BELLINGHAM HAS IDENTIFIED A CAPACITY ISSUE IN THE LAURAL STREET RIGHT OF WAY. THE CONSTRUCTION OF THE STORMWATER DETENTION SYSTEM SHALL BE COMPLETED PRIOR TO THE COMPLETION OF ANY INCREASE IN IMPERVIOUS SURFACE.
 - THE PROPOSED FLOW CONTROL FACILITY SHOULD BE INSTALLED PRIOR TO CONSTRUCTION OF THE NEW BUILDING AND PARKING IN THE ALLEY.
 - INFILTRATION FACILITIES ARE NOT PROPOSED AS A PART OF THIS PROJECT.

- ELEMENT 4: INSTALL SEDIMENT CONTROLS:
- THE PROJECT SITE IS LOCATED WITHIN A DEVELOPED GRASS LANDSCAPED AREA. EXISTING GROUND COVER SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE UNTIL CONSTRUCTION OF THE BUILDING.
 - THE PROPOSED PROJECT IS RELATIVELY SMALL WITH MINIMAL POTENTIAL FOR STORMWATER POLLUTION. HOWEVER, SEDIMENT CONTROLS SHOULD BE IMPLEMENTED DURING CONSTRUCTION WHERE FEASIBLE. EXCAVATED MATERIAL SHOULD BE PLACED UPHILL FROM TRENCHES AND EXCAVATED AREAS IF POSSIBLE. STRAW WATTLES AND SLOPE COVERINGS ARE ALSO RECOMMENDED FOR USE AREAS EXPOSED BY UTILITY TRENCHING. SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE CONTRACTOR MAY USE ANY OTHER APPLICABLE SEDIMENT CONTROLS AS NECESSARY FOR SITE CONDITIONS DURING CONSTRUCTION.
 - NO EARTHEN STRUCTURES ARE PROPOSED FOR THIS PROJECT.

- ELEMENT 5: STABILIZE SOILS:
- EXISTING SOIL AND GROUND COVER SHALL BE RETAINED AND SHALL REMAIN UNDISTURBED TO THE MAXIMUM EXTENT PRACTICABLE TO MINIMIZE THE EROSION POTENTIAL ON SITE. VEGETATED AREAS SHOULD BE RESTORED AS SOON AS POSSIBLE AFTER INSTALLATION OF THE STORMWATER FACILITIES. ALL EXPOSED AND UNWORKED SOIL SHALL BE STABILIZED BY APPLICATION OF BMPs THAT PROTECT SOIL FROM THE EROSION FORCES OF RAINFALL IMPACTS, FLOWING WATER, AND WIND EROSION. SOIL PILES SHOULD BE COVERED WITH PLASTIC OR ROLLED EROSION CONTROL PRODUCTS (RECP) WHEN NOT IN USE.
 - BETWEEN OCTOBER 1 AND APRIL 30, NO SOIL SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN TWO DAYS. FROM MAY 1 THROUGH SEPTEMBER 30, NO SOIL SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN SEVEN DAYS.
 - APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY OR PERMANENT SEEDING, SODDING, MULCHING, PLASTIC COVERING, SOIL APPLICATION OF POLYACRYLAMIDE (PAM), EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED, AND DUST CONTROL.
 - SOIL STABILIZATION MEASURES SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, ESTIMATED DURATION OF USE, AND POTENTIAL WATER QUALITY IMPACTS THAT STABILIZATION AGENTS MAY HAVE ON DOWNSIDE WATERS OR GROUNDWATER.
 - SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING MEASURES. AS RECOMMENDED IN ELEMENT 4, EXCAVATED SOIL MATERIAL SHOULD BE PLACED UPHILL FROM THE EXCAVATED AREAS.
 - PROPOSED WORK IS NON-LEAK AND WILL BE UNDER THE CONTROL OF ONE GENERAL CONTRACTOR.
 - AT THE DISCRETION OF CITY OF BELLINGHAM PUBLIC WORKS DIRECTOR, SITES THAT ARE UNABLE TO MAINTAIN ADEQUATE WATER QUALITY IN THEIR STORMWATER DISCHARGES MAY BE REQUIRED TO PROVIDE SOIL STABILIZATION TO ALL EXPOSED SOIL AREAS REGARDLESS OF THE WORKING STATUS OF THE AREA. UPON WRITTEN NOTIFICATION, THE PROPERTY OWNER SHALL PROVIDE FULL STABILIZATION OF ALL EXPOSED SOIL AREAS WITHIN 24 HOURS.

- ELEMENT 6: PROTECT SLOPES:
- THERE ARE AREAS ON THIS PROJECT THAT ARE DESIGNED AS SLOPES. ALL PROPOSED GRADE CHANGES ARE DESIGNED AS WALLS. THE EXISTING VEGETATED SLOPE SHALL BE PROTECTED DURING CONSTRUCTION AND ALL DISTURBANCES SHALL BE REVEGETATED AS SOON AS PRACTICAL.
 - ALL SOILS ON STEEP SLOPES CAN HAVE A HIGH DEGREE OF EROSION. EXTRA CARE SHALL BE TAKEN WHEN INSTALLING THE UTILITIES ON THE SLOPE ADJACENT TO THE ALLEY.
 - REDUCE THE VELOCITIES OF WATER RUNNING DOWN OPEN OR CLOSED UTILITY TRENCHES ALONG THE SLOPE AREA. INSTALL TEMPORARY DAMS IN THE TRENCHES IF RAIN IS FORECASTED AND THEY WILL BE OPEN FOR MORE THAN 48 HOURS. COVER ALL BACKFILLED TRENCHES WITH ROLLED EROSION CONTROL PRODUCTS AND BREAK SLOPES WITH STRAW WATTLES. REVEGETATE TRENCH CUT AS SOON AS PRACTICAL.
 - DIVERT ALL UPSLOPE WATER WITH INTERCEPTORS AT THE TOP OF THE SLOPE.
 - CONTAIN ALL TEMPORARY WATER IN PIPES THAT WILL BE CONVEYED DOWN THE SLOPED AREAS.
 - PROVIDE DRAINAGE TO REMOVE GROUND WATER INTERSECTING THE SLOPE SURFACE OF EXPOSED SOILS AREAS.

- ELEMENT 7: PROTECT DRAIN INLETS:
- ALL EXISTING AND PROPOSED CATCH BASINS THAT MAY RECEIVE RUNOFF FROM THE SITE, EITHER DURING OR AFTER CONSTRUCTION, SHALL BE PROTECTED WITH CATCH BASIN FILTRATION INSERTS. CATCH BASINS THAT REQUIRE PROTECTION ARE IDENTIFIED IN THE TEMPORARY EROSION CONTROL PLAN DRAWING WITHIN THE CIVIL SITE PLANS.
 - ALL APPROACH ROADS SHALL BE KEPT CLEAN AND ALL SEDIMENT AND STREET WASH WATER SHALL NOT BE ALLOWED TO ENTER STORM DRAINS WITHOUT PRIOR AND ADEQUATE TREATMENT UNLESS TREATMENT IS PROVIDED BEFORE THE STORM DRAIN DISCHARGES TO WATERS OF THE STATE.

- ELEMENT 8: STABILIZE CHANNELS AND OUTLETS:
- EXISTING DRAINAGE SYSTEMS APPEAR TO BE ADEQUATELY STABILIZED. ANY TEMPORARY CHANNELS THAT MAY BE REQUIRED DURING CONSTRUCTION SHALL BE DESIGNED AND BUILT TO PREVENT EROSION FROM THE EXPECTED VELOCITY FLOW FROM A 2-YEAR, 24-HOUR STORM EVENT FOR THE DEVELOPED CONDITION.
 - NO ADDITIONAL CHANNEL STABILIZATION IS REQUIRED OR PROPOSED FOR THIS PROJECT.

- ELEMENT 9: CONTROL POLLUTANTS:
- ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT CONTAMINATE STORMWATER.
 - COVER, CONTAINMENT, AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS, AND NON-INERT WASTES PRESENT ON THE SITE.
 - MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ON-SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
 - WHEEL WASH, OR TIRE BATH WASTEWATER, SHALL BE DISCHARGED TO A SEPARATE ON-SITE TREATMENT SYSTEM OR TO THE SANITARY SEWER.
 - AGRICULTURAL CHEMICALS WILL NOT BE APPLIED AT THIS SITE.
 - WASHOUT OF CONCRETE TRUCKS WILL ONLY BE ALLOWED WITHIN FORMED AREAS AWAITING INSTALLATION OF CONCRETE. IF SITE CONDITIONS PREVENT WASHOUT INTO FORMED AREAS, THEN ANY UNUSED CONCRETE IN THE TRUCK SHALL BE RETURNED TO THE BATCH PLANT FOR RECYCLING. HAND TOOLS, INCLUDING SCREEDS, SHOVELS, RAKES, FLOATS, OR TROWELS SHALL BE WASHED OFF ONLY INTO FORMED AREAS AWAITING INSTALLATION OF CONCRETE.

- ELEMENT 10: CONTROL DE-WATERING: NO DEWATERING IS PROPOSED AS A PART OF THIS PROJECT. THEREFORE, SUBSECTIONS OF ELEMENT 10 (AS IDENTIFIED IN BELLINGHAM MUNICIPAL CODE 15.42.060.F.2.e) DO NOT APPLY TO THIS PROJECT. IF DEWATERING BECOMES NECESSARY, THE DEWATERING ACTIVITIES WILL BE PERFORMED ACCORDING TO REQUIREMENTS IN CITY CODE AND THE DOE MANUAL.

- ELEMENT 11: MAINTAIN BMPs:
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE WITH BMP SPECIFICATIONS.
 - SEDIMENT CONTROL BMPs SHALL BE INSPECTED WEEKLY OR AFTER A RUNOFF-PRODUCING STORM EVENT DURING THE DRY SEASON AND DAILY DURING THE WET SEASON.
 - ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMPs SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL OF BMPs OR VEGETATION SHALL BE PERMANENTLY STABILIZED.

- ELEMENT 12: MANAGE THE PROJECT:
- THE PROPOSED IMPROVEMENTS WILL BE BUILT IN A SINGLE PHASE. NO FURTHER DEVELOPMENT IS PROPOSED AT THIS TIME. GRAVEL SURFACING SHALL BE RESTORED IMMEDIATELY AFTER INSTALLATION OF UTILITIES AND THE NEW BUILDING.
 - EXISTING GROUND COVER AND VEGETATION (IF ANY) SHOULD BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT FEASIBLE.
 - ALL UTILITIES SHALL BE TAKEN INTO ACCOUNT WHEN MODIFYING THE SWPPP.
 - ALL BMPs SHALL BE INSPECTED, MAINTAINED, AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
 - THIS PROJECT WILL NOT DISTURB MORE THAN ONE ACRE OF SOIL. A CERTIFIED EROSION AND SEDIMENTATION CONTROL LEAD (CESCL) IS NOT REQUIRED, BUT IS RECOMMENDED TO MONITOR AND INSPECT BMPs THAT WILL BE USED DURING CONSTRUCTION.
 - WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPs IDENTIFIED IN THE CONSTRUCTION SWPPP ARE INADEQUATE, DUE TO ACTUAL DISCHARGE OF OR POTENTIAL TO DISCHARGE A SIGNIFICANT AMOUNT OF ANY POLLUTANT, THE SWPPP SHALL BE MODIFIED AS APPROPRIATE, IN A TIMELY MANNER.
 - THIS CONSTRUCTION SWPPP SHALL BE RETAINED ON-SITE. THIS SWPPP SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP.

BMP C152: Sawcutting and Surfacing Pollution Prevention

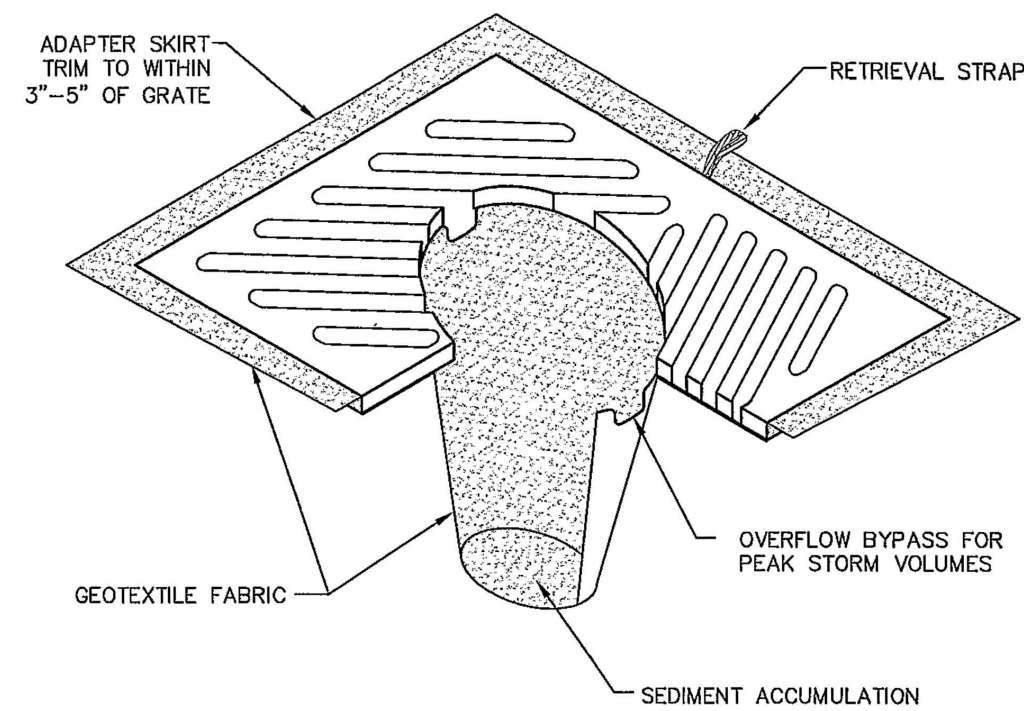
Purpose
Sawcutting and surfacing operations generate slurry and process water that contains fine particles and high pH (concrete cutting), both of which can violate the water quality standards in the receiving water. Concrete spillage or concrete discharge to surface waters of the State is prohibited. Use this BMP to minimize and eliminate process water and slurry created through sawcutting or surfacing from entering waters of the State.

Conditions of Use
Utilize these management practices anytime sawcutting or surfacing operations take place. Sawcutting and surfacing operations include, but are not limited to, the following:

- Sawing
- Coring
- Grinding
- Roughening
- Hydro-demolition
- Bridge and road surfacing
- Vacuum slurry and cuttings during cutting and surfacing operations.
- Slurry and cuttings shall not remain on permanent concrete or asphalt pavement overnight.
- Slurry and cuttings shall not drain to any natural or constructed drainage conveyance including stormwater systems. This may require temporarily blocking catch basins.
- Dispose of collected slurry and cuttings in a manner that does not violate ground water or surface water quality standards.
- Do not allow process water generated during hydro-demolition, surface roughening or similar operations to drain to any natural or constructed drainage conveyance including stormwater systems. Dispose process water in a manner that does not violate ground water or surface water quality standards.
- Handle and dispose cleaning waste material and demolition debris in a manner that does not cause contamination of water. Dispose of sweeping material from a pick-up sweeper at an appropriate disposal site.

Maintenance Standards
Continually monitor operations to determine whether slurry, cuttings, or process water could enter waters of the state. If inspections show that a violation of water quality standards could occur, stop operations and immediately implement preventive measures such as berms, barriers, secondary containment, and vacuum trucks.

Volume II - Construction Stormwater Pollution Prevention - August 2012
4-44

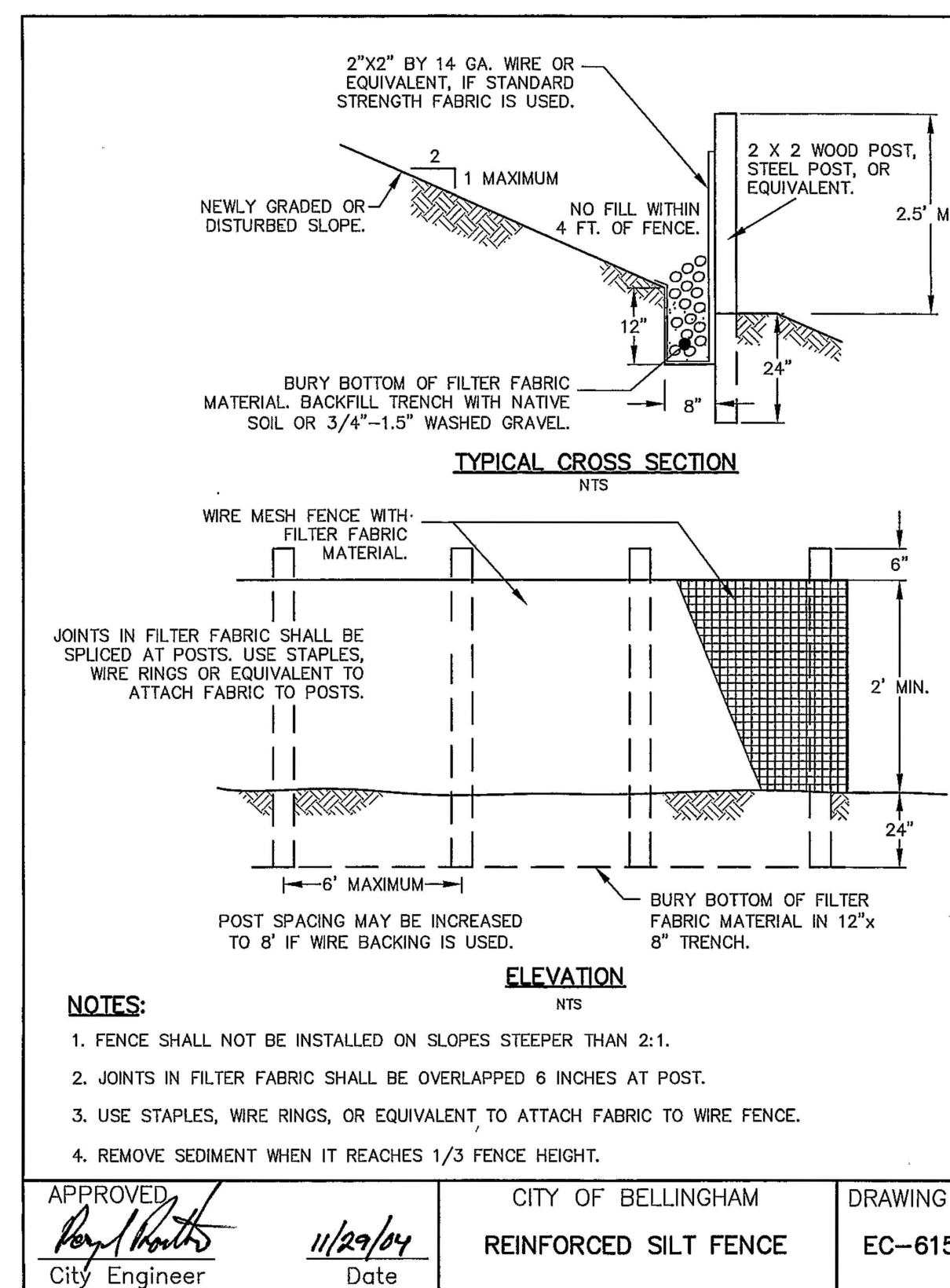


- NOTES:**
- INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
 - SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL.
 - SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.

APPROVED <i>David Smith</i> City Engineer	11/29/14 Date	CITY OF BELLINGHAM CATCH BASIN INSERT	DRAWING EC-620
---	------------------	--	-------------------

B nts SAWCUTTING & SURFACE POLLUTION

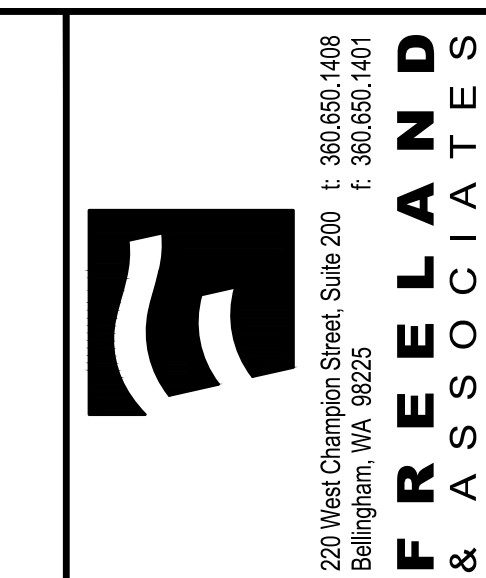
C nts INLET PROTECTION



APPROVED <i>David Smith</i> City Engineer	11/29/14 Date	CITY OF BELLINGHAM REINFORCED SILT FENCE	DRAWING EC-615
---	------------------	---	-------------------

A nts CONSTRUCTION STORMWATER PREVENTION PLAN

D nts REINFORCED SILT FENCE



REV.	DATE	DESCRIPTION

CLIENT: GARDEN STREET INVESTMENTS, LLC
5449 ALDRICH ROAD
BELLINGHAM, WA 98226
CALL BEFORE YOU DIG
FOR BURIED UTILITY LOCATIONS
1-800-424-5555

PROJECT LOCATION: 4 UNIT ROOMING HOUSE
1125 NORTH GARDEN STREET
BELLINGHAM, WA 98225
DRAWN BY: ERP
CHECKED BY: MDB
DESIGNED BY: JPS

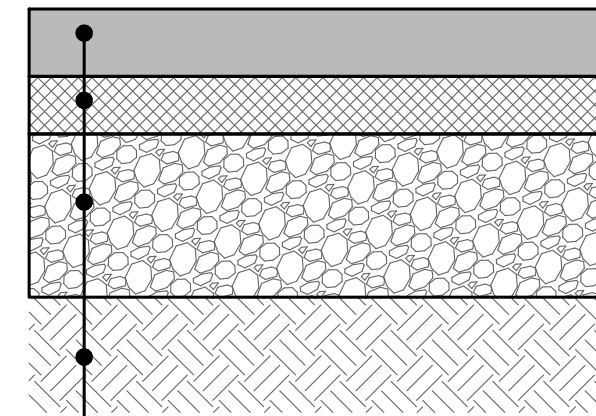
SHEET CONTENTS: TEMPORARY EROSION & SEDIMENTATION CONTROL DETAILS & SWPPP



AS-BUILT DRAWING
AS-BUILT NOTE:
ONLY INFORMATION NOTED AS AS-BUILT "(AB)" HAS BEEN PROVIDED BY CONTRACTOR

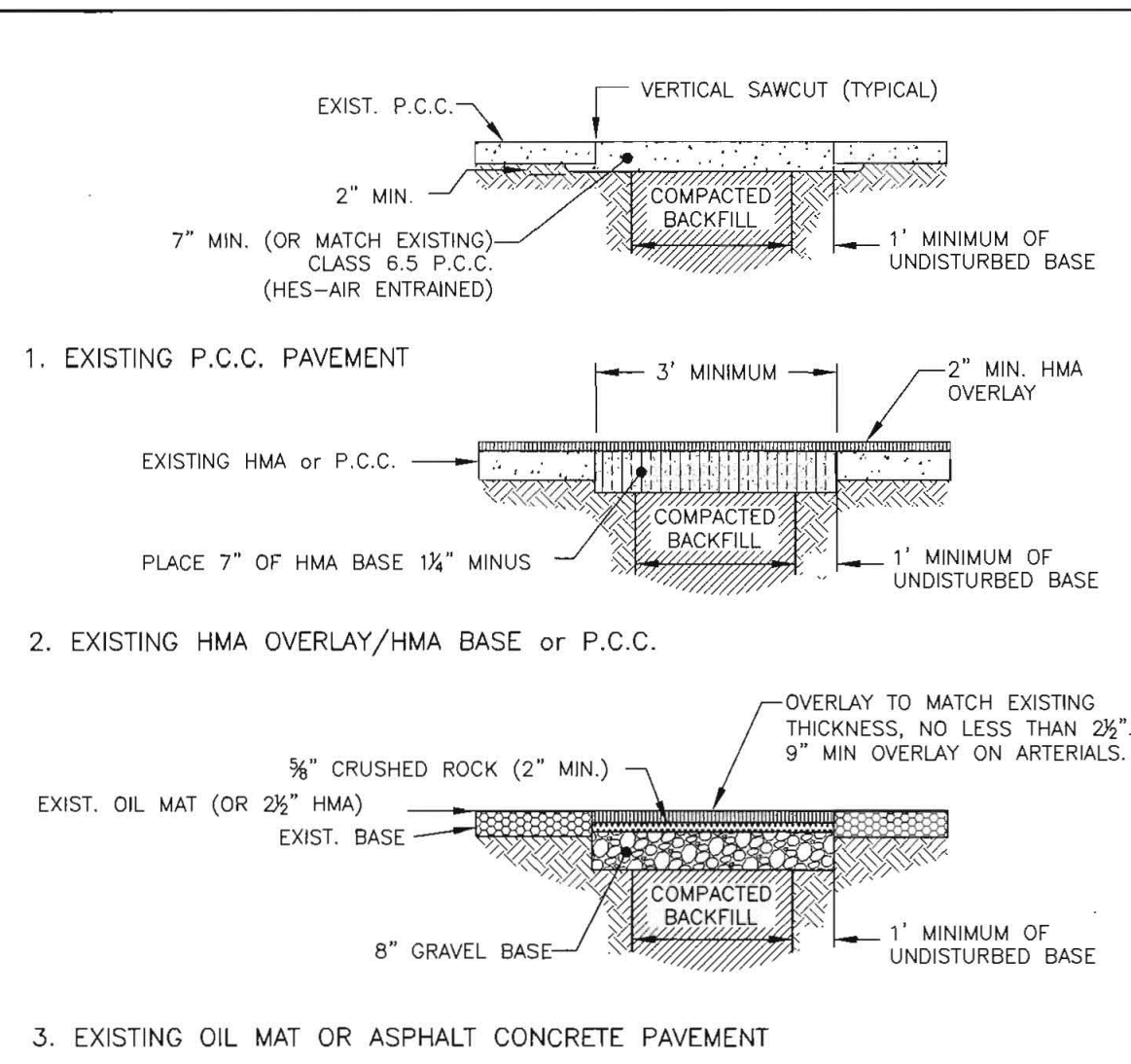
JOB #: 13197	DATE: 5-3-2017
SCALE: HORIZ: N/A VERT: N/A	SHEET: C3

- NOTES:
- ALL DEPTHS REPRESENT COMPACTED DEPTHS.
 - REMOVE ALL TOPSOIL AND UNSUITABLE NATIVE SOIL FROM THE ROAD AND SLOPE PRISM.
 - IN FILL SECTIONS EXTEND GRAVEL BASE TO UNYIELDING NATIVE SUBGRADE. PLACE GRAVEL BASE IN 12" MAX LIFTS AND COMPACT LIFT TO 95% MAX. DENSITY.



3" HOT MIX ASPHALT (HMA), CLASS $\frac{1}{2}$ ", PG 64-22
 2" CRUSHED SURFACING BASE COURSE
 12" GRAVEL BASE (MIN. DEPTH)
 EXISTING SUBGRADE OR COMPACTED FILL

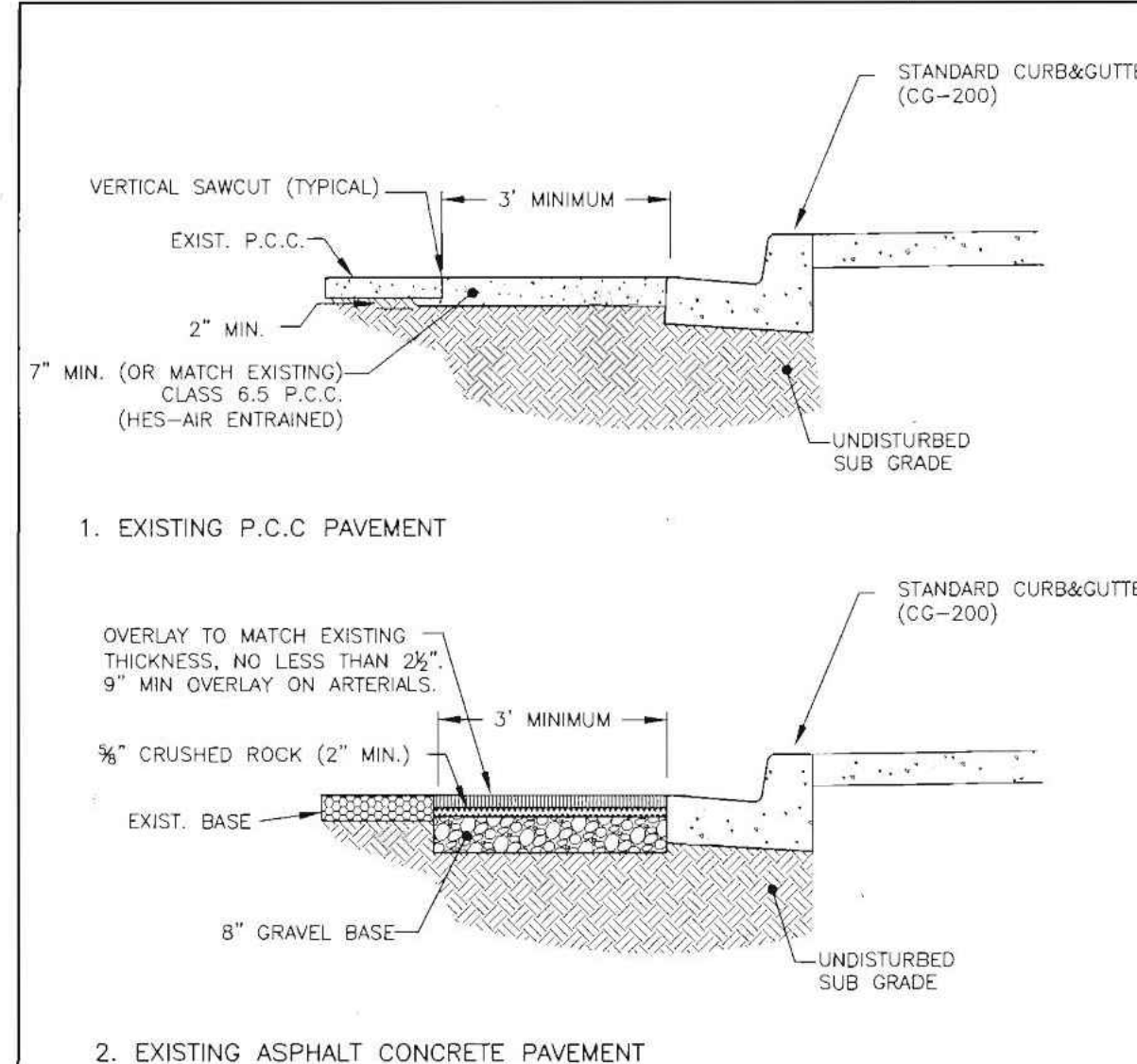
A ASPHALT PAVEMENT SECTION
nts



NOTES:
 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF BELLINGHAM'S STANDARD SPECIFICATIONS FOR UTILITY CUTS IN STREET AREA.
 PAVEMENT OVERLAYS No. 2 AND 3, TACK ALL EDGES AND HMA BASE SURFACE BEFORE PLACING HMA PAVEMENT. SEAL ALL JOINTS WITH HOT ASPHALT (AR-4000W) BETWEEN EXISTING AND NEW HMA PAVEMENT IMMEDIATELY AFTER FINISH ROLLING.
 CONTRACTOR SHALL MATCH EXISTING SURFACES THAT ARE COLORED, TEXTURED, STAMPED OR INLaid WITH BRICK.

APPROVED: [Signature] 12/10/09
 City Engineer Date
 CITY OF BELLINGHAM
 HORIZONTAL PAVEMENT REPAIR (STREET CROSSINGS)
 DRAWING ST-180

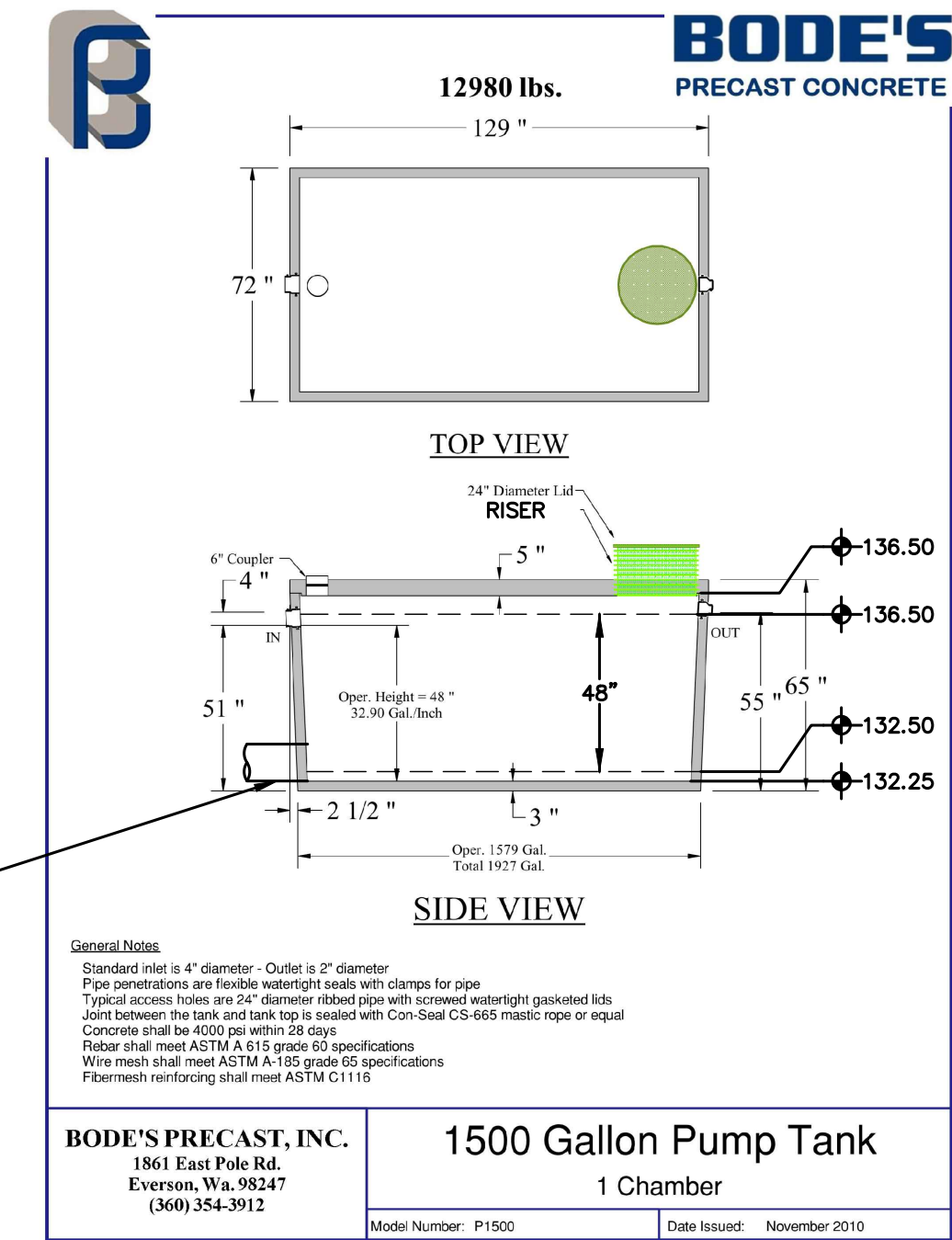
B PAVEMENT REPAIR
nts



NOTES:
 ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF BELLINGHAM'S STANDARD SPECIFICATIONS FOR UTILITY CUTS IN STREET AREA.
 FOR ASPHALT CONCRETE PAVEMENT, TACK ALL EDGES AND HMA BASE SURFACE BEFORE PLACING HMA PAVEMENT. SEAL ALL JOINTS WITH HOT ASPHALT (AR-4000W) BETWEEN EXISTING AND NEW HMA PAVEMENT IMMEDIATELY AFTER FINISH ROLLING.
 CONTRACTOR SHALL MATCH EXISTING SURFACES THAT ARE COLORED, TEXTURED, STAMPED OR INLaid WITH BRICK.

APPROVED: [Signature] 11/1/10
 City Engineer Date
 CITY OF BELLINGHAM
 PAVEMENT REPAIR (CURB REPLACEMENT)
 DRAWING CG-218

C PAVEMENT REPAIR
nts

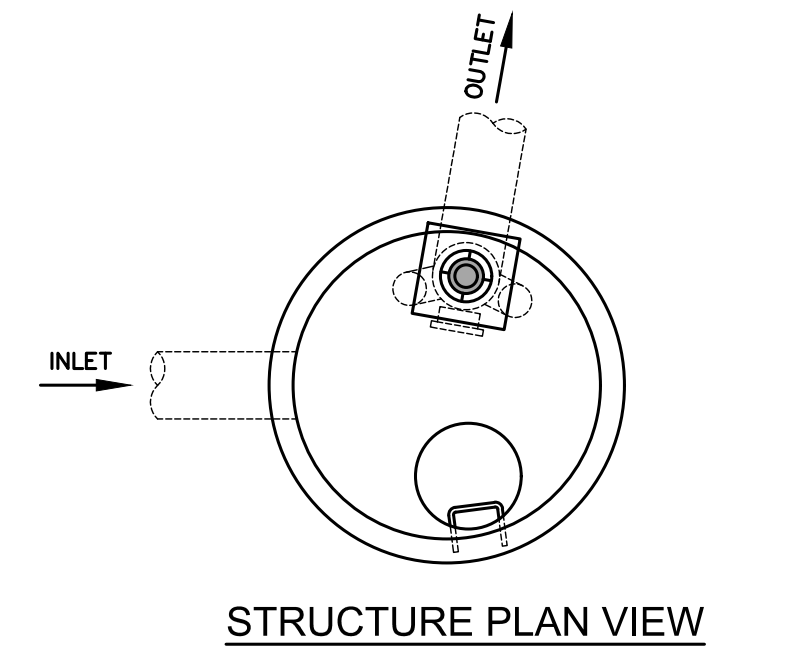
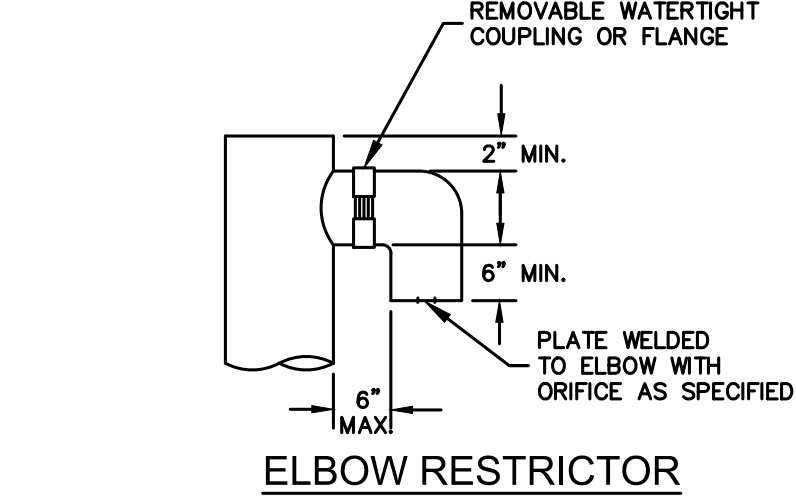
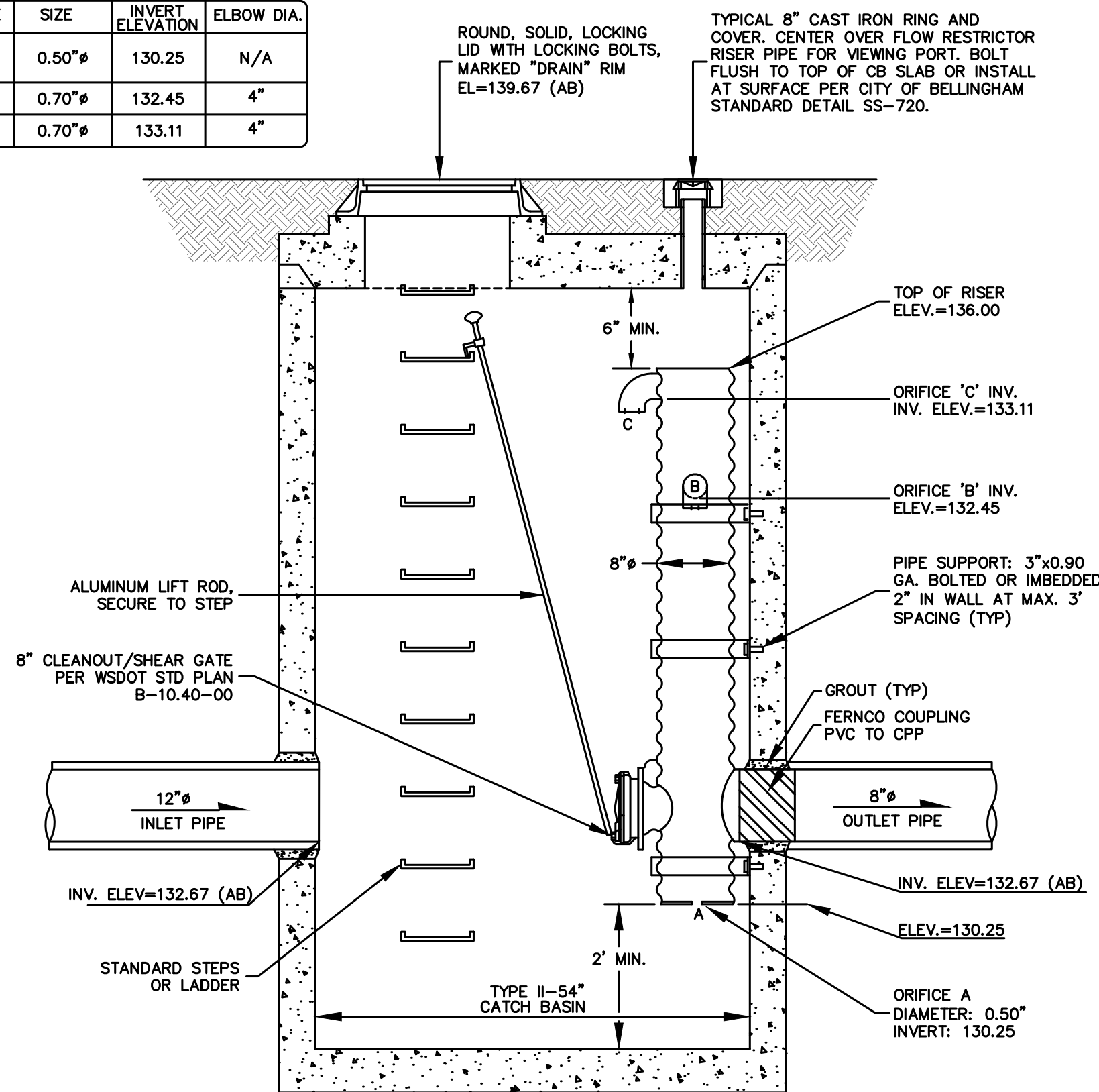


BODE'S PRECAST, INC.
 1861 East Park Rd.
 Everett, WA 98247
 (360) 354-3912
 Model Number: P1500
 Date Issued: November 2010
1500 Gallon Pump Tank
 1 Chamber

D DETENTION TANK
nts

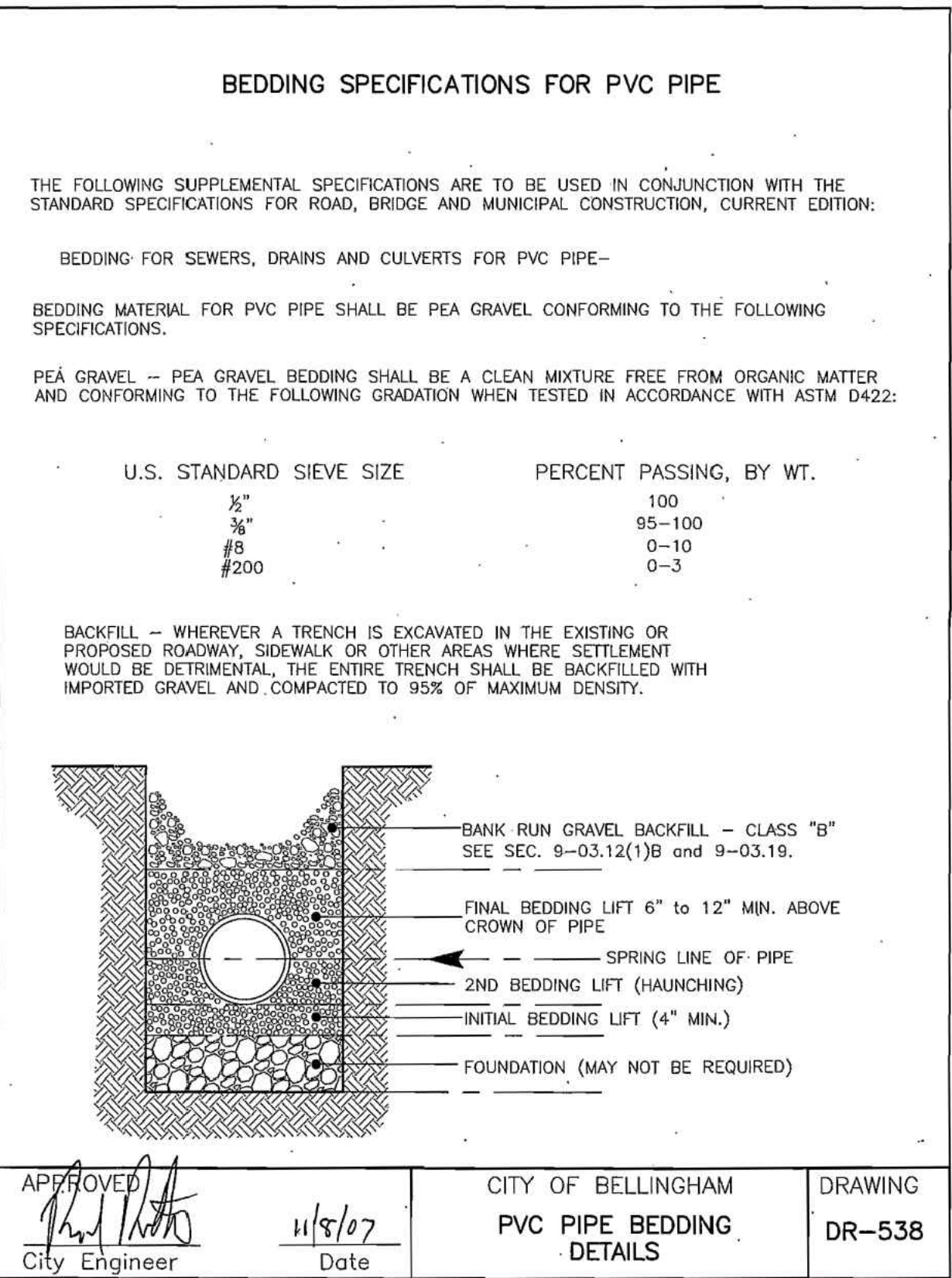
ORIFICE SIZING AND ELEVATIONS

ORIFICE	SIZE	INVERT ELEVATION	ELBOW DIA.
A	0.50"	130.25	N/A
B	0.70"	132.45	4"
C	0.70"	133.11	4"



- NOTES:
- ALL ORIFICES TO BE FABRICATED BY SHOP DRILLING HOLES OF APPROPRIATE DIAMETER IN METAL PLATE, AND WELDING IT INTO PLACE AT THE BOTTOM OF THE MAIN RISER AND THE TWO ELBOWS.
 - PIPE SUPPORT BRACKETS AND THE RESTRICTOR/SEPARATOR SHALL BE OF THE SAME MATERIAL, AND BE ANCHORED AT 3' MAXIMUM SPACING.
 - ALL METAL PARTS SHALL BE CORROSION RESISTANT. ALL GALVANIZED STEEL PARTS SHALL BE ASPHALT TREATMENT 1 COATED.
 - THE RESTRICTOR/SEPARATOR STANDPIPE SHALL BE FABRICATED FROM 0.060" ALUMINUM, 0.064" ALUMINIZED STEEL, OR 0.064" GALVANIZED STEEL, IN ACCORDANCE WITH AASHTO M36, M196, M197 AND M274. GALVANIZED STEEL SHALL BE ASPHALT TREATMENT 1 COATED.
 - IF A METAL OUTLET PIPE CONNECTS TO A CEMENT CONCRETE PIPE, THE OUTLET PIPE SHALL HAVE A SMOOTH OUTSIDE DIAMETER EQUAL TO THE INSIDE DIAMETER OF THE CONCRETE PIPE LESS 1/4".
 - THE FRAME AND LADDER (OR STEPS) SHALL OFFSET SO THAT:
 - THE CLEANOUT GATE IS VISIBLE FROM THE TOP.
 - THE CLIMB DOWN CLEAR SPACE OF 2 FEET IS BETWEEN THE RISER AND CLEANOUT GATE.
 - THE FRAME IS CLEAR OF THE CURB. (IF APPLICABLE)

E CONTROL STRUCTURE DETAILS
nts



APPROVED: [Signature] 11/5/07
 City Engineer Date
 CITY OF BELLINGHAM
 PVC PIPE BEDDING DETAILS
 DRAWING DR-538

F STORM DRAIN BEDDING
nts

PER BMC 15.42.06(F)1, PROJECT FACILITIES THAT ARE REQUIRED BY STATE LAW TO BE DESIGNED BY A PROFESSIONAL ENGINEER MUST BE CERTIFIED BY THE ENGINEER OF RECORD THAT FACILITIES HAVE BEEN CONSTRUCTED TO DESIGN SPECIFICATIONS. THIS SHALL BE ACCOMPLISHED BY PROVIDING CERTIFIED AS-BUILT DRAWINGS OF THE STORMWATER FACILITIES.
CERTIFIED AS-BUILT DRAWINGS OF THE STORMWATER FACILITIES
 [Signature]
 ENGINEER DATE 5-3-2017

AS-BUILT DRAWING
 AS-BUILT NOTE:
 ONLY INFORMATION NOTED AS AS-BUILT "(AB)" HAS BEEN PROVIDED BY CONTRACTOR

BY:	
DESCRIPTION:	
DATE:	
REV:	
CLIENT:	GARDEN STREET INVESTMENTS, LLC 5449 ALDRICH ROAD BELLINGHAM, WA 98226
PROJECT LOCATION:	4 UNIT ROOMING HOUSE 1125 NORTH GARDEN STREET BELLINGHAM, WA 98225
DRAWN BY:	ERP
CHECKED BY:	MDB
DESIGNED BY:	UPS
CALL BEFORE YOU DIG FOR BURIED UTILITY LOCATIONS	1-800-424-5655

PROJECT LOCATION:	4 UNIT ROOMING HOUSE 1125 NORTH GARDEN STREET BELLINGHAM, WA 98225
DRAWN BY:	ERP
CHECKED BY:	MDB
DESIGNED BY:	UPS



JOB #: 13197
 DATE: 5-3-2017
 SCALE: N/A
 SHEET: C5
 HORIZ: N/A
 VERT: N/A

BEDDING SPECIFICATIONS FOR DUCTILE IRON PIPE

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS ARE TO BE USED IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION:

BEDDING FOR SEWERS, DRAINS, CULVERTS AND WATERMANS FOR DUCTILE IRON PIPE-

BEDDING MATERIAL FOR DUCTILE IRON PIPE SHALL BE GRAVEL BACKFILL FOR PIPE ZONE BEDDING CONFORMING TO THE FOLLOWING SPECIFICATIONS.

PIPE ZONE GRAVEL - PIPE ZONE GRAVEL BEDDING SHALL BE A CLEAN MIXTURE FREE FROM ORGANIC MATTER AND CONFORMING TO THE FOLLOWING GRADATION WHEN TESTED IN ACCORDANCE WITH ASTM D422:

U.S. SIEVE SIZE	PERCENT PASSING
1 1/2"	100
1"	75-100
3/4"	50-100
No. 4	20-80
No. 40	3-24
No. 200	10.0 Max.
Sand Equivalent	35 Min.

BACKFILL - WHEREVER A TRENCH IS EXCAVATED IN THE EXISTING OR PROPOSED ROADWAY, SIDEWALK OR OTHER AREAS WHERE SETTLEMENT WOULD BE DETRIMENTAL, THE ENTIRE TRENCH SHALL BE BACKFILLED WITH IMPORTED GRAVEL AND COMPACTED TO 95% OF MAXIMUM DENSITY.

APPROVED: *[Signature]* 3/1/11
City Engineer Date

CITY OF BELLINGHAM
WATER PIPE BEDDING
DETAILS

DRAWING
WA-820

A WATER PIPE INSTALLATION DETAIL
nts

APPROVED: *[Signature]* 6/25/05
City Engineer Date

CITY OF BELLINGHAM
FIRELINE RESTRAINTS
AT PROPERTY LINE

DRAWING
WA-885

B FIRELINE RESTRAINTS
nts

APPROVED: *[Signature]* 1/16/05
City Engineer Date

CITY OF BELLINGHAM
THRUST BLOCK-ELBOW

DRAWING
WA-860

C CONCRETE THRUST BLOCK
nts

APPROVED: *[Signature]* 1/16/05
City Engineer Date

CITY OF BELLINGHAM
THRUST BLOCK-TEE

DRAWING
WA-862

D CONCRETE THRUST BLOCK
nts

APPROVED: *[Signature]* 3-12-11
FIRE MARSHAL DATE

CITY OF BELLINGHAM
REMOTE FIRE DEPARTMENT CONNECTION

DRAWING
FD-001

E FIRE DEPARTMENT CONNECTION DETAIL
nts

APPROVED: *[Signature]* 2/3/10
City Engineer Date

CITY OF BELLINGHAM
HYDRANT INSTALLATION

DRAWING
WA-802

F FIRE SERVICE DETAIL
nts

APPROVED: *[Signature]* 2/3/10
City Engineer Date

CITY OF BELLINGHAM
HYDRANT INSTALLATION

DRAWING
WA-802

G FIRE HYDRANT ASSEMBLY
nts

220 West Commercial Street, Suite 200
Bellingham, WA 98225
F: 360.650.1409
E: 360.650.1407

BY:		DESCRIPTION:	
REV:	DATE:		
GARDEN STREET INVESTMENTS, LLC 5449 ALDRICH ROAD BELLINGHAM, WA 98226		CALL BEFORE YOU DIG FOR BURIED UTILITY LOCATIONS 1-800-424-6555	
4 UNIT ROOMING HOUSE 1125 NORTH GARDEN STREET BELLINGHAM, WA 98225		DRAWN BY: ERP CHECKED BY: MJB DESIGNED BY: JPS	
WATER DETAILS			
AS-BUILT DRAWING <small>AS-BUILT NOTE: ONLY INFORMATION NOTED AS AS-BUILT (AB) HAS BEEN PROVIDED BY CONTRACTOR</small>		JOB #: 13197 DATE: 5-3-2017 SCALE: N/A SHEET: C6 VERT: N/A	