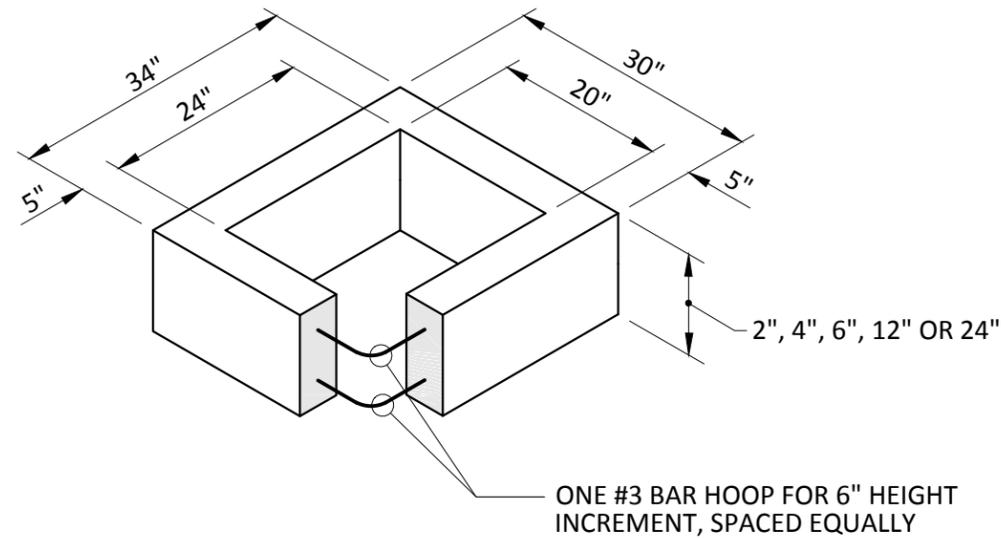
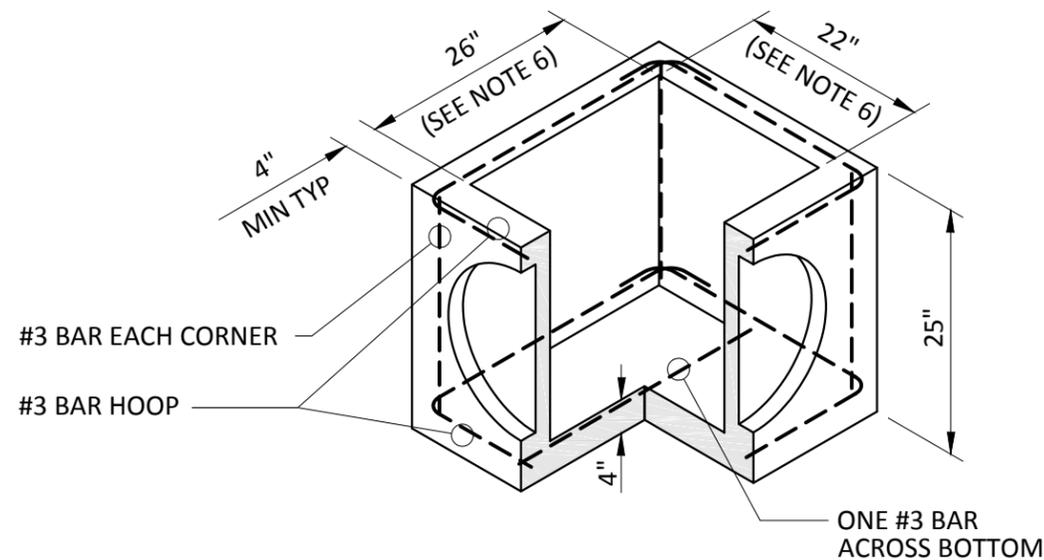


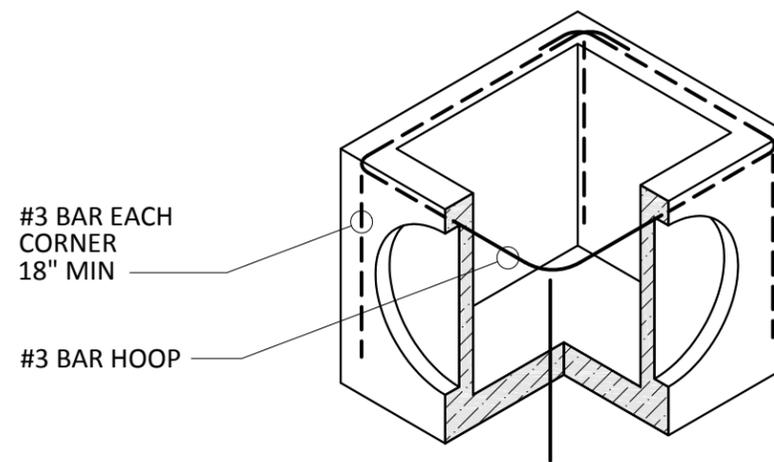
FRAME AND VANED GRATE



RECTANGULAR ADJUSTMENT SECTION



PRECAST BASE SECTION



ALTERNATIVE PRECAST BASE SECTION

(SEE NOTE 1)

DRAFT

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
*CPSSP (WSDOT STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (WSDOT STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (WSDOT STD. SPEC. 9-05.12(2))	15"

* CORRUGATED POLYETHYLENE STORM SEWER PIPE

NOTES

- AS ACCEPTABLE ALTERNATIVES TO THE REBAR SHOWN IN THE PRECAST BASE SECTION, FIBERS (PLACED ACCORDING TO THE WSDOT 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.
- THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 18". KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2.5" MAXIMUM. PROVIDE A 1.5" 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 WSDOT STANDARD SPECIFICATION 9-04.3.
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5'.
- THE FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE DOWN OR INTEGRALLY CAST INTO THE ADJUSTMENT SECTION WITH FLANGE UP.
- THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR, AND THE WALLS MAY BE SLOPED AT A RATE OF 1:24 OR STEEPER.
- THE OPENING SHALL BE MEASURED AT THE TOP OF THE PRECAST BASE SECTION.
- ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE INLET HAS BEEN PLACED.

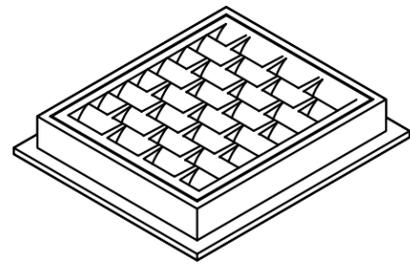
T:\ACAD\EPS-COE DESIGN & CONSTR SPECS FOR DEVELOPMENT\IN-WORK\STD01.DWG

WSDOT STD PLAN B-25.60-00 ACCEPTABLE SUBSTITUTE

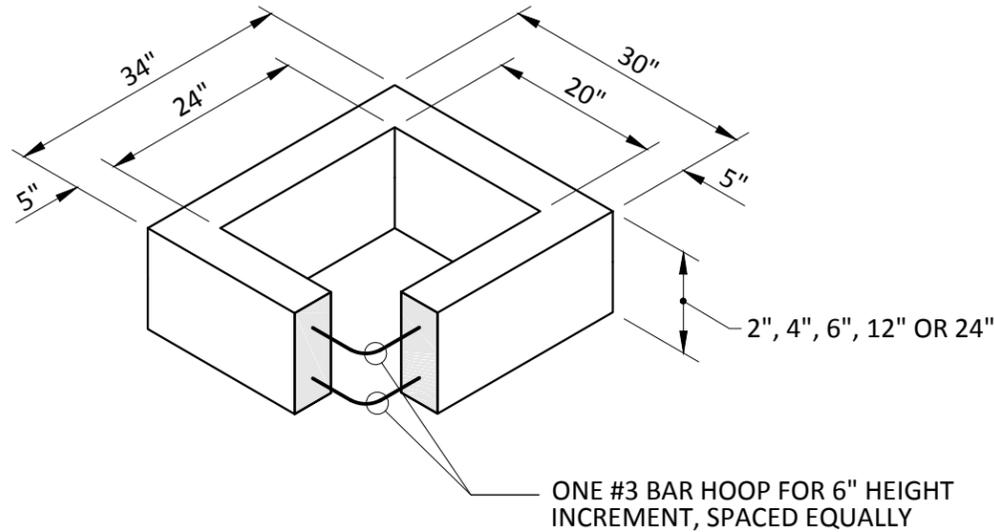


City Engineer: RYAN SASS | Section Manager: HEATHER GRIFFIN | CAD Manager: PAUL WILHELM | Drawn By: WRB | Current Rev Date: 12/30/2016

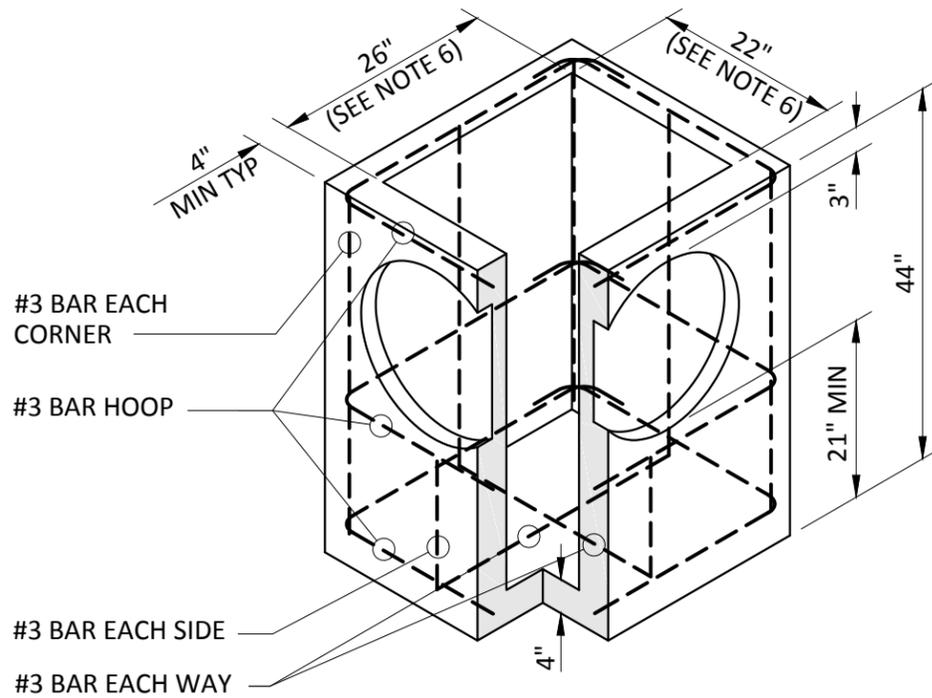
TITLE: CONCRETE INLET | STANDARD DRAWING No. 401



FRAME AND VANED GRATE



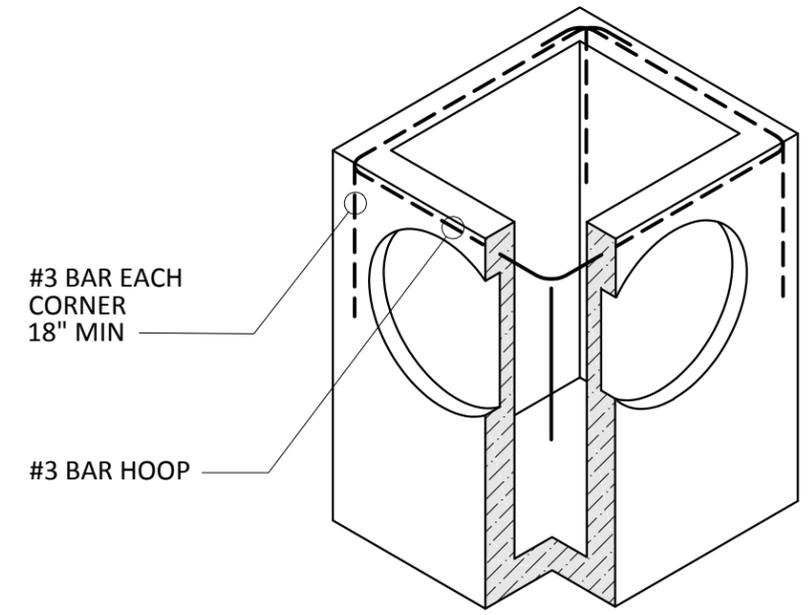
RECTANGULAR ADJUSTMENT SECTION



PRECAST BASE SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
*CPSSP (WSDOT STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (WSDOT STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (WSDOT STD. SPEC. 9-05.12(2))	15"

* CORRUGATED POLYETHYLENE STORM SEWER PIPE



ALTERNATIVE PRECAST BASE SECTION

(SEE NOTE 1)

NOTES

- AS ACCEPTABLE ALTERNATIVES TO THE REBAR SHOWN IN THE PRECAST BASE SECTION, FIBERS (PLACED ACCORDING TO THE WSDOT 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.
- THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 20". KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2.5" MAXIMUM. PROVIDE A 1.5" 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 WSDOT SPECIFICATION 9-04.3.
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5'.
- THE FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE DOWN, OR INTEGRALLY CAST INTO THE ADJUSTMENT SECTION WITH FLANGE UP.
- THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR, AND THE WALLS MAY BE SLOPED AT A RATE OF 1:24 OR STEEPER.
- THE OPENING SHALL BE MEASURED AT THE TOP OF THE PRECAST BASE SECTION.
- ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED.

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WSDOT STD PLAN B-5.20-01 ACCEPTABLE SUBSTITUTE

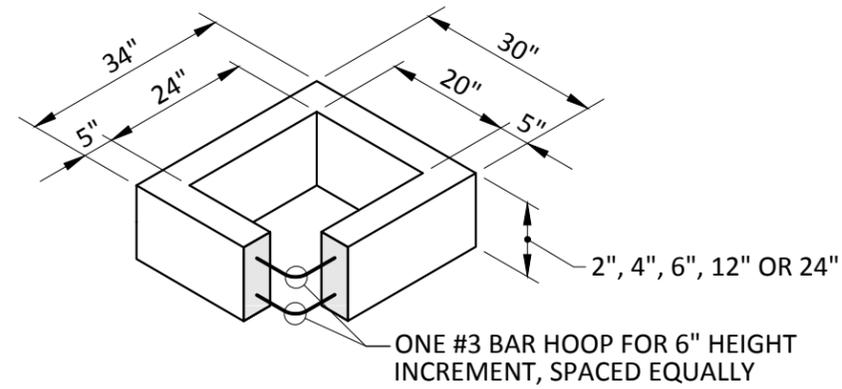


City Engineer: RYAN SASS | Section Manager: HEATHER GRIFFIN | CAD Manager: PAUL WILHELM | Drawn By: WRB | Current Rev Date: 12/30/2016

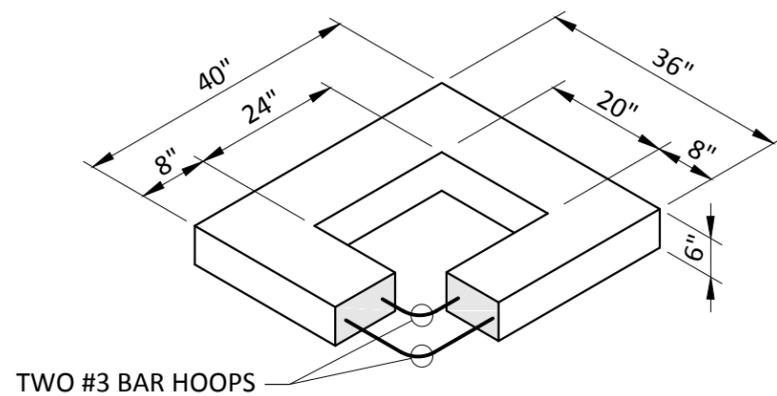
CATCH BASIN TYPE 1

402

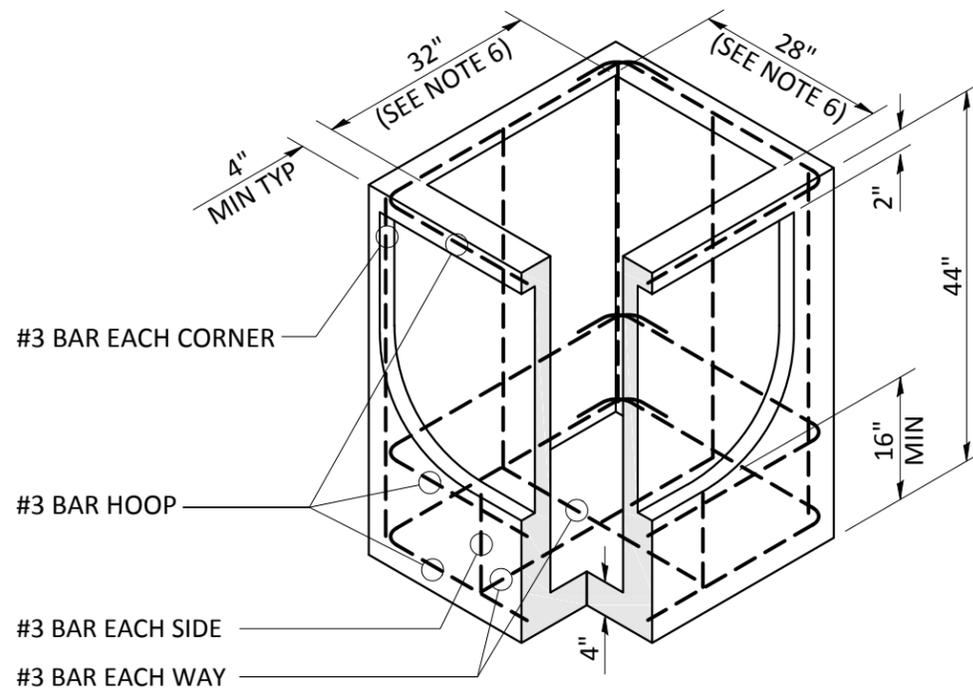
DRAFT



RECTANGULAR ADJUSTMENT SECTION



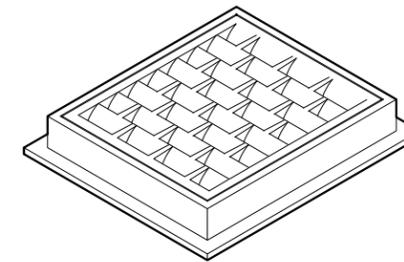
REDUCING SECTION



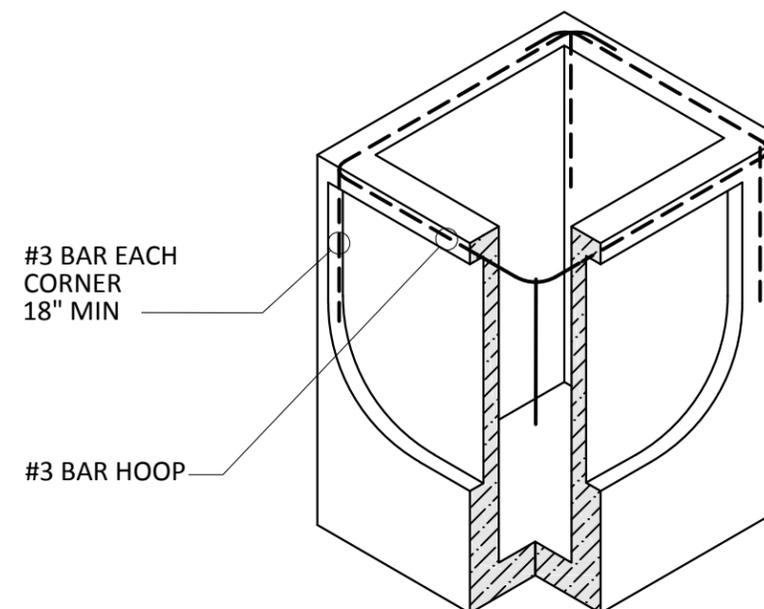
PRECAST BASE SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	18"
ALL METAL PIPE	21"
*CPSSP (WSDOT STD. SPEC. 9-05.20)	18"
SOLID WALL PVC (WSDOT STD. SPEC. 9-05.12(1))	21"
PROFILE WALL PVC (WSDOT STD. SPEC. 9-05.12(2))	21"

* CORRUGATED POLYETHYLENE STORM SEWER PIPE



FRAME AND VANED GRATE



ALTERNATIVE PRECAST BASE SECTION

(SEE NOTE 1)

DRAFT

NOTES

- AS ACCEPTABLE ALTERNATIVES TO THE REBAR SHOWN IN THE PRECAST BASE SECTION, FIBERS (PLACED ACCORDING TO THE WSDOT 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.
- THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 26". KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2.5" MAXIMUM. PROVIDE A 1.5" 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 WSDOT STANDARD SPECIFICATION 9-04.3.
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5'.
- THE FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE DOWN, OR INTEGRALLY CAST INTO THE ADJUSTMENT SECTION WITH FLANGE UP.
- THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR, AND THE WALLS MAY BE SLOPED AT A RATE OF 1:24 OR STEEPER.
- THE OPENING SHALL BE MEASURED AT THE TOP OF THE PRECAST BASE SECTION.
- ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED.

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WSDOT STD PLAN B-5.40-01 ACCEPTABLE SUBSTITUTE

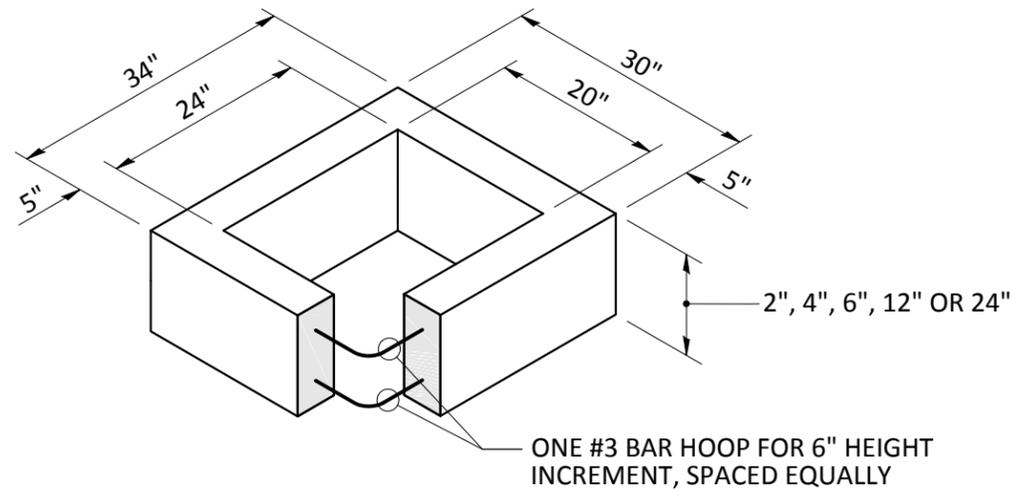


City Engineer: RYAN SASS | Section Manager: HEATHER GRIFFIN | CAD Manager: PAUL WILHELM | Drawn By: WRB | Current Rev Date: 12/30/2016

CATCH BASIN TYPE 1L

403

STANDARD DRAWING No.



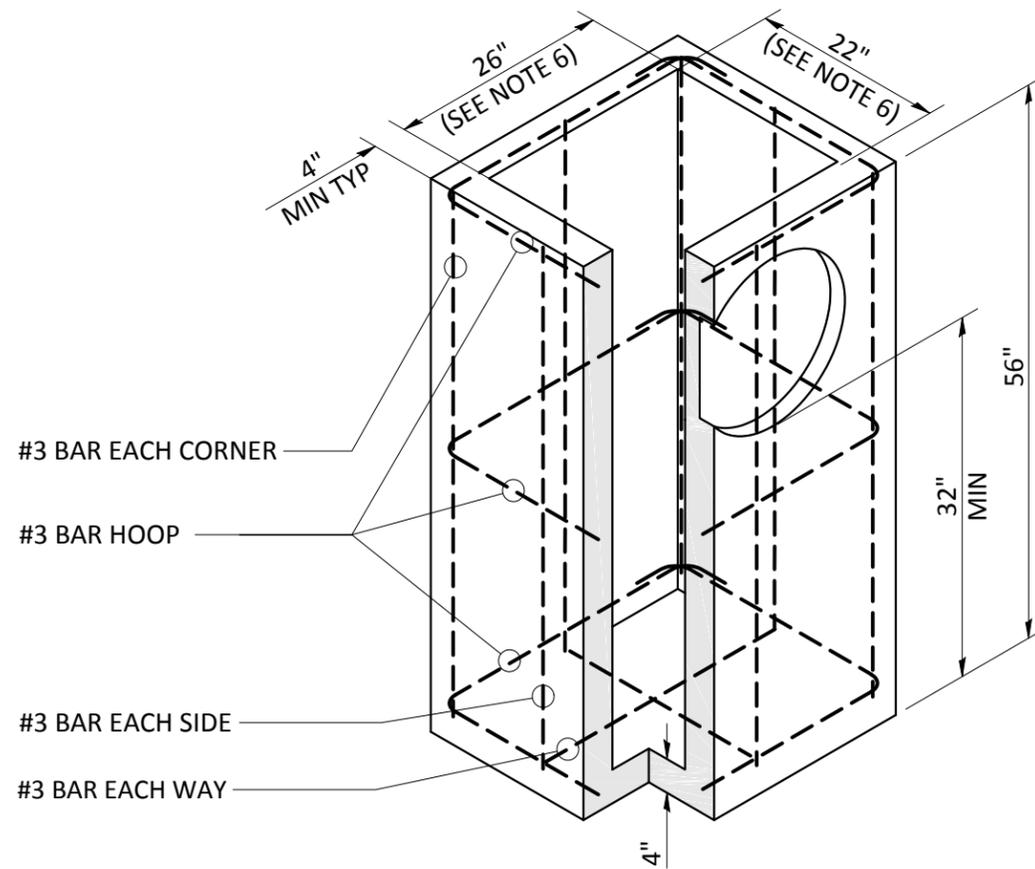
RECTANGULAR ADJUSTMENT SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
*CPSSP (WSDOT STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (WSDOT STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (WSDOT STD. SPEC. 9-05.12(2))	15"

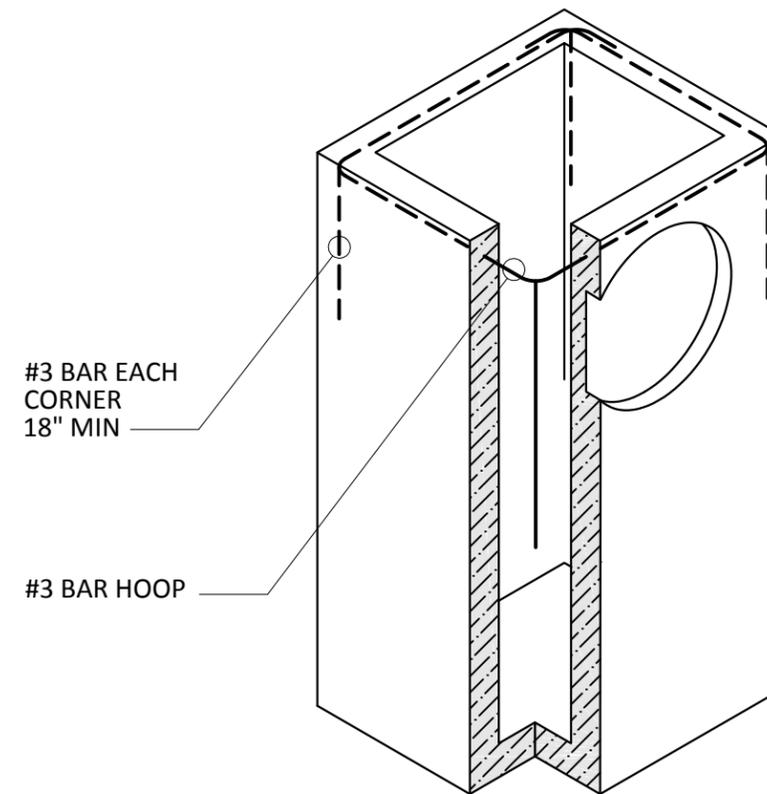
* CORRUGATED POLYETHYLENE STORM SEWER PIPE

NOTES

- AS ACCEPTABLE ALTERNATIVES TO THE REBAR SHOWN IN THE PRECAST BASE SECTION, FIBERS (PLACED ACCORDING TO THE WSDOT 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.
- THE KNOCKOUT DIAMETER SHALL NOT BE GREATER THAN 18". KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2.5" MAXIMUM. PROVIDE A 1.5" 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 WSDOT STANDARD SPECIFICATION 9-04.3.
- THE MAXIMUM DEPTH FROM THE FINISHED GRADE TO THE LOWEST PIPE INVERT SHALL BE 5'.
- THE FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE DOWN, OR INTEGRALLY CAST INTO THE ADJUSTMENT SECTION WITH FLANGE UP.
- THE PRECAST BASE SECTION MAY HAVE A ROUNDED FLOOR, AND THE WALLS MAY BE SLOPED AT A RATE OF 1:24 OR STEEPER.
- THE OPENING SHALL BE MEASURED AT THE TOP OF THE PRECAST BASE SECTION.
- ALL PICKUP HOLES SHALL BE GROUTED FULL AFTER THE BASIN HAS BEEN PLACED.

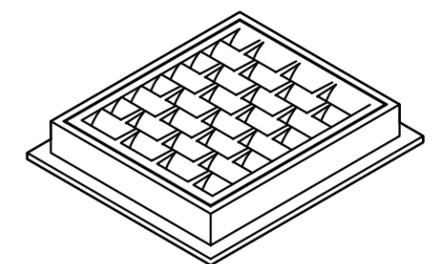


PRECAST BASE SECTION



ALTERNATIVE PRECAST BASE SECTION

(SEE NOTE 1)



FRAME AND VANED GRATE

WSDOT STD PLAN B-5.60-01 ACCEPTABLE SUBSTITUTE



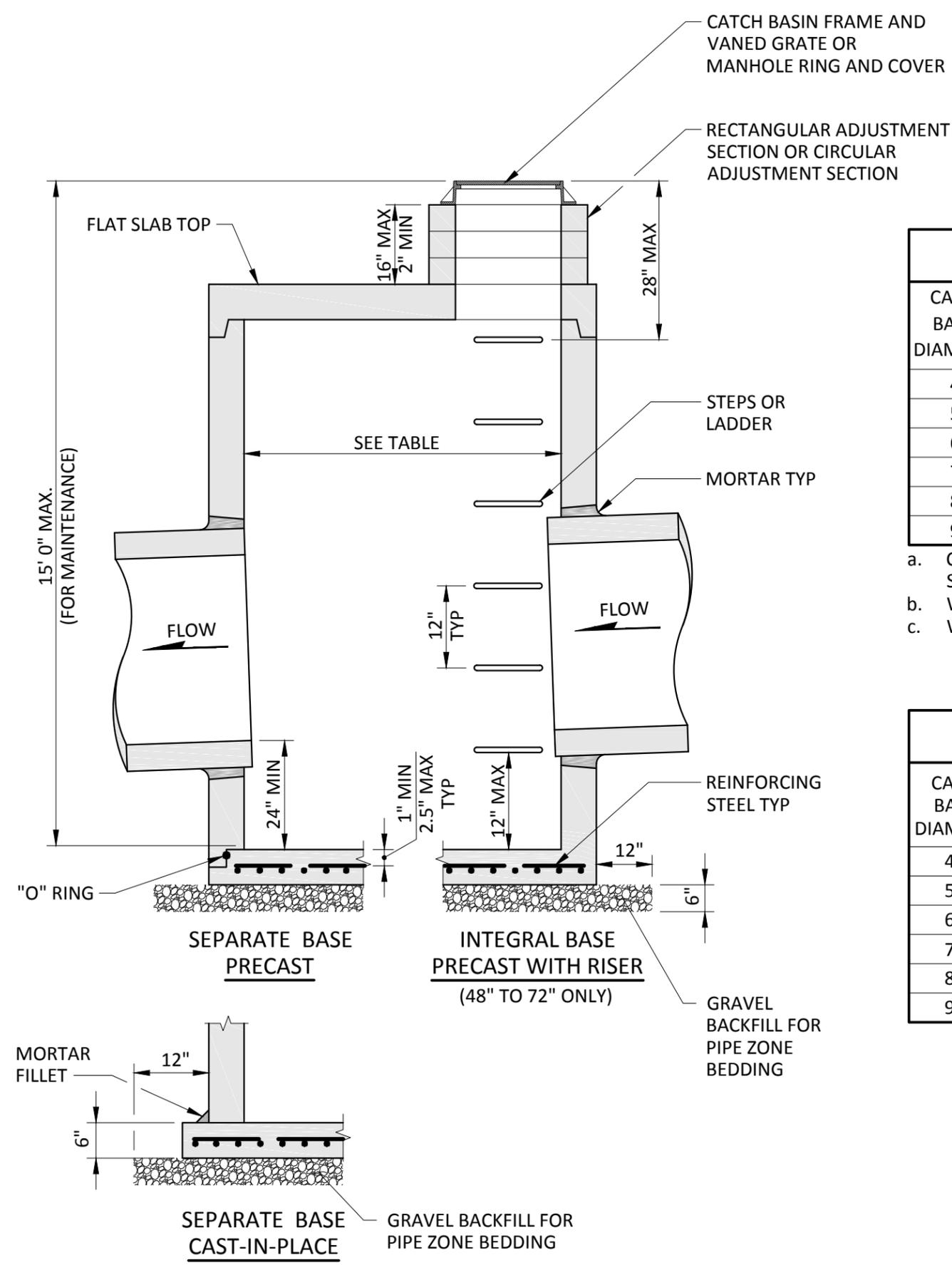
City Engineer: RYAN SASS | Section Manager: HEATHER GRIFFIN | CAD Manager: PAUL WILHELM | Drawn By: WRB | Current Rev Date: 12/30/2016

CATCH BASIN TYPE 1P
(FOR PARKING LOT)

STANDARD DRAWING No. 404

DRAFT

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PIPE ALLOWANCES					
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP (a)	SOLID WALL PVC (b)	PROFILE WALL PVC (c)
48"	24"	30"	24"	30"	30"
54"	30"	36"	30"	36"	36"
60"	36"	42"	36"	42"	42"
72"	42"	54"	42"	48"	48"
84"	54"	60"	54"	48"	48"
96"	60"	72"	60"	48"	48"

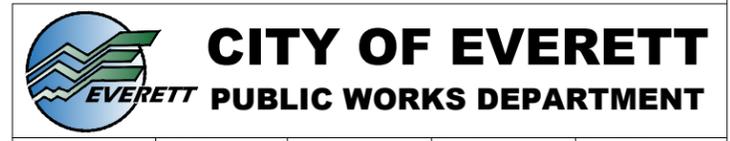
- a. CORRUGATED POLYETHYLENE STORM SEWER PIPE, WSDOT STANDARD PLAN 9-05.20.
- b. WSDOT STANDARD PLAN 9-05.12(1).
- c. WSDOT STANDARD PLAN 9-05.12(2).

CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	WALL THICKNESS	BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"

NOTES

1. NO STEPS ARE REQUIRED WHEN HEIGHT IS 4' OR LESS.
2. THE BOTTOM OF THE PRECAST CATCH BASIN MAY BE SLOPED TO FACILITATE CLEANING.
3. THE RECTANGULAR FRAME AND GRATE MAY BE INSTALLED WITH THE FLANGE UP OR DOWN. THE FRAME MAY BE CAST INTO THE ADJUSTMENT SECTION.
4. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2.5" MAXIMUM. PROVIDE A 1.5" 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 WSDOT STANDARD SPECIFICATION 9-04.3.
5. CONCRETE STRUCTURE SHALL MEET THE REQUIREMENTS OF AASHTO M199.
6. FOR MANHOLE COVER SEE STANDARD DRAWING 607A AND 607B. REFER TO DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS SECTION 4 FOR ADDITIONAL REQUIREMENTS.
7. STEPS PER STANDARD DRAWING 606.

WSDOT STD PLAN B-10.20-01 ACCEPTABLE SUBSTITUTE

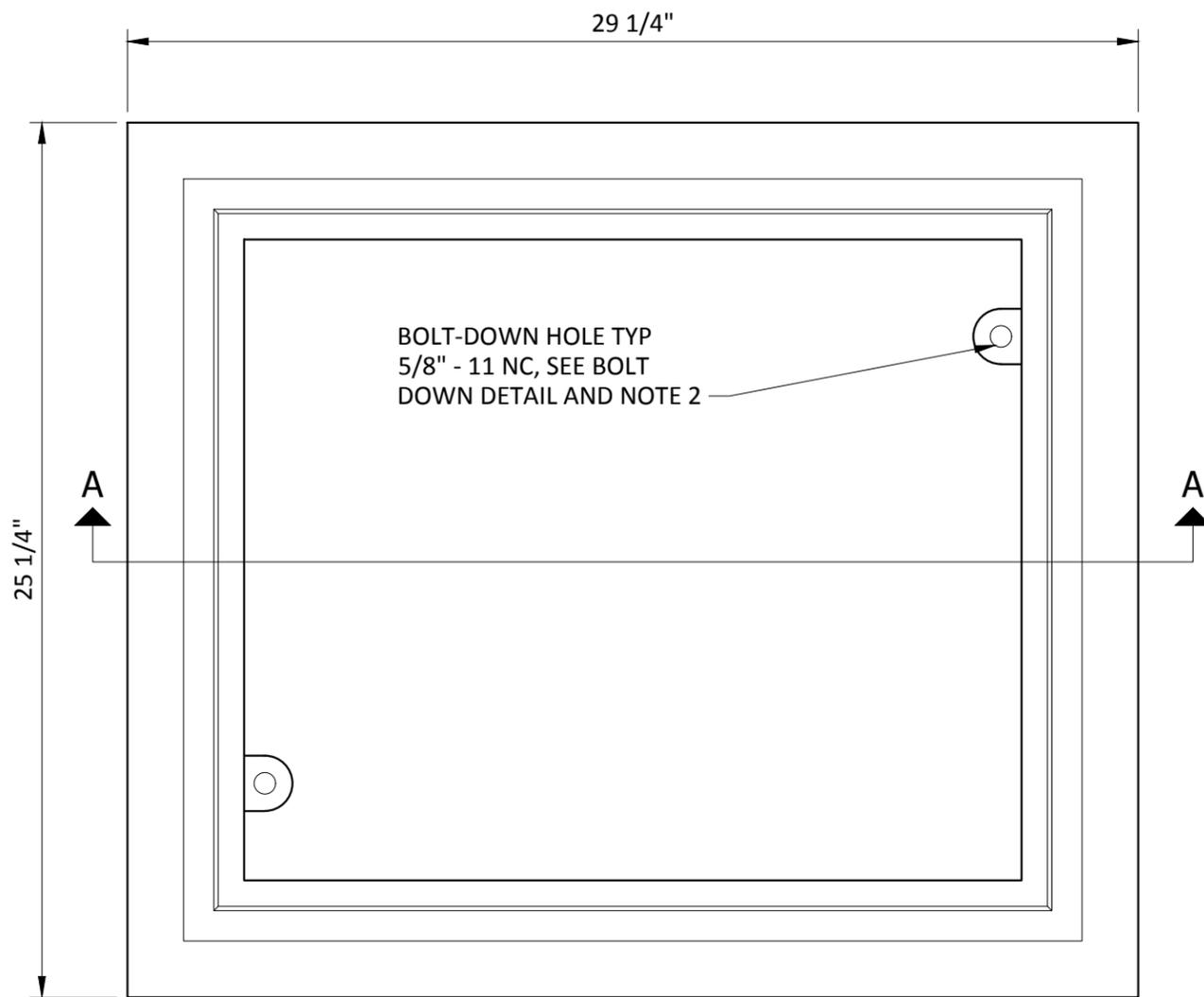


City Engineer: RYAN SASS | Section Manager: HEATHER GRIFFIN | CAD Manager: PAUL WILHELM | Drawn By: WRB | Current Rev Date: 12/30/2016

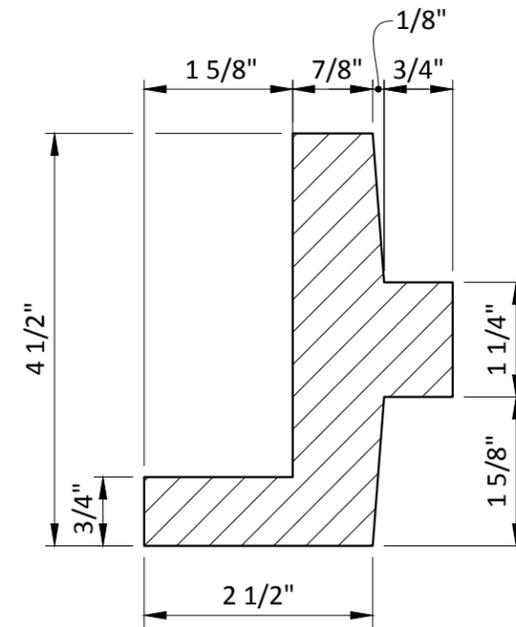
CATCH BASIN TYPE 2

405

DRAFT

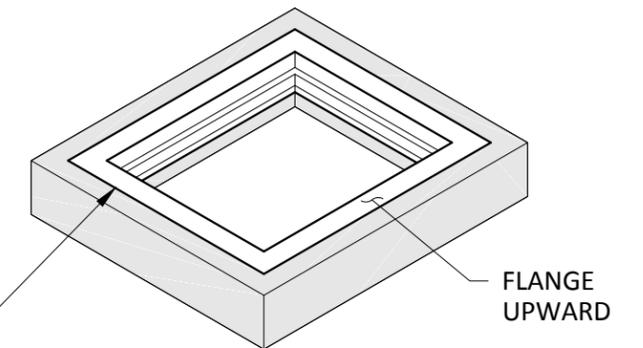


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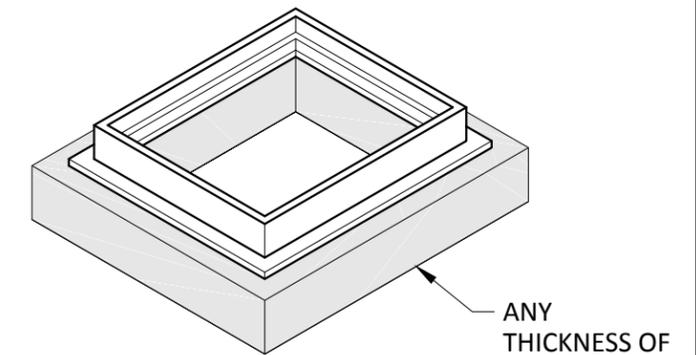


DETAIL B

FRAME CAST INTO
6" OR 12" PRECAST
ADJUSTMENT
SECTION.
SEE STANDARD
DRAWINGS 401,
402, 403 OR 404
FOR ADJUSTMENT
SECTION DETAILS



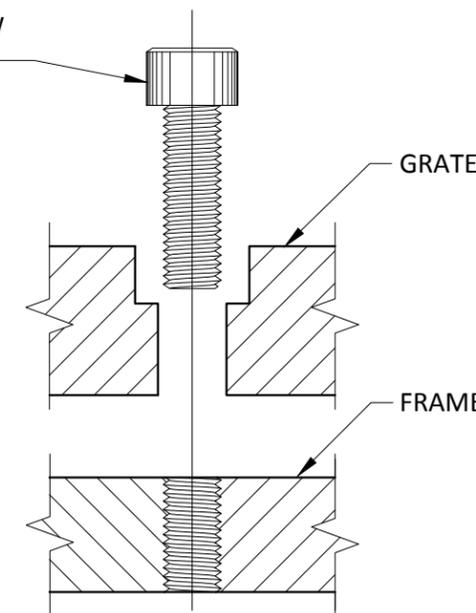
FLANGE UP



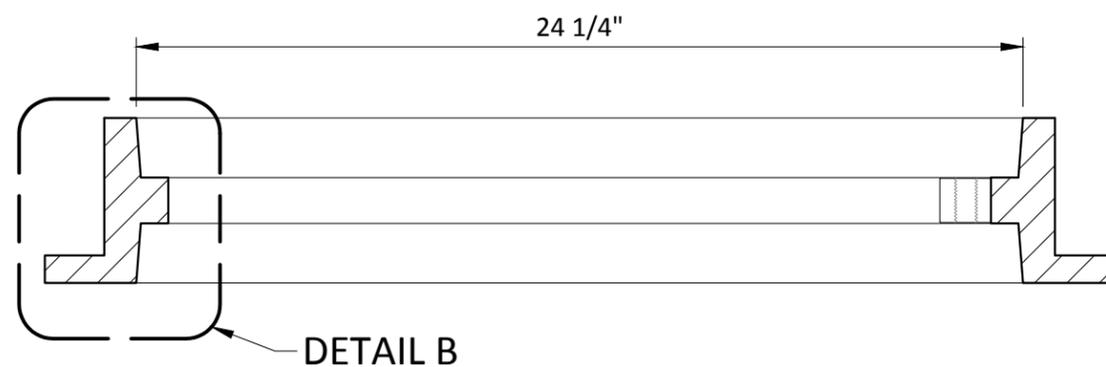
FLANGE DOWN

WSDOT STD PLAN B-30.10-01, ACCEPTABLE
SUBSTITUTE EXCEPT ALL STEEL RECESSED ALLEN
SCREWS MUST BE STAINLESS STEEL

STAINLESS STEEL
RECESSED ALLEN
HEAD CAP SCREW
5/8" - 11 NC x 2



BOLT-DOWN DETAIL
(SEE NOTE 2)



SECTION A-A

NOTES

1. THIS FRAME IS DESIGNED TO ACCOMMODATE 20"X24" GRATES OR COVERS AS SHOWN ON STANDARD DRAWINGS 409 , 410 AND 411.
2. BOLT-DOWN CAPABILITY IS REQUIRED ON ALL FRAMES, GRATES AND COVERS UNLESS SPECIFIED OTHERWISE IN THE CONTRACT. PROVIDE TWO HOLES IN THE FRAME THAT ARE VERTICALLY ALIGNED WITH THE GRATE OR COVER SLOTS. THE FRAME SHALL ACCEPT THE 5/8" - 11 NC X 2" STAINLESS STEEL RECESSED ALLEN HEAD CAP SCREW BEING TAPPED, OR OTHER APPROVED MECHANISM. LOCATION OF BOLT DOWN HOLES VARIES BY MANUFACTURER.
3. REFER TO WSDOT STANDARD SPECIFICATION 9-05.15(2) AND DESIGN CONSTRUCTION STANDARDS AND SPECIFICATIONS SECTION 4 FOR ADDITIONAL REQUIREMENTS.

DRAFT

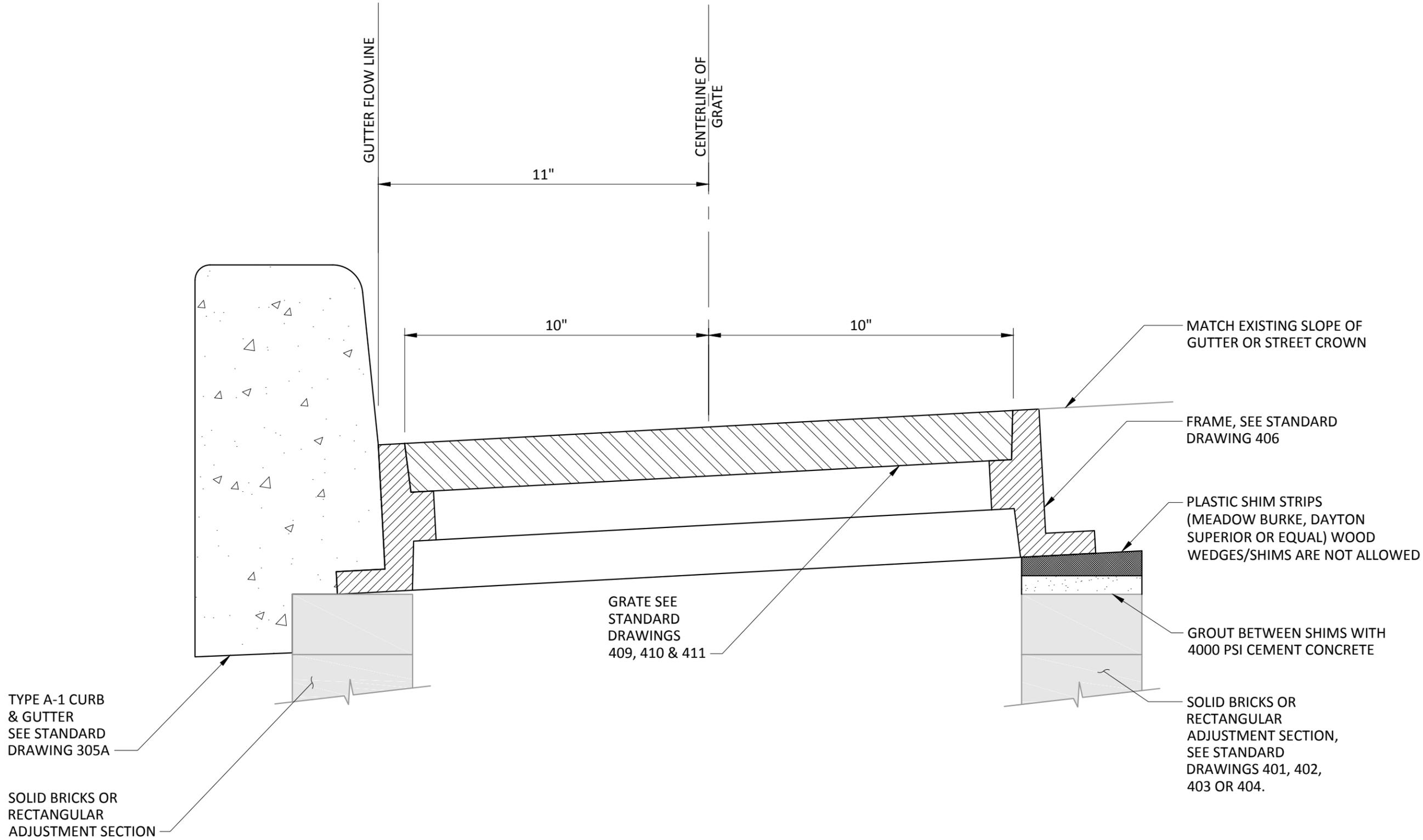
CITY OF EVERETT
EVERETT PUBLIC WORKS DEPARTMENT

City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
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RECTANGULAR FRAME
(REVERSIBLE)

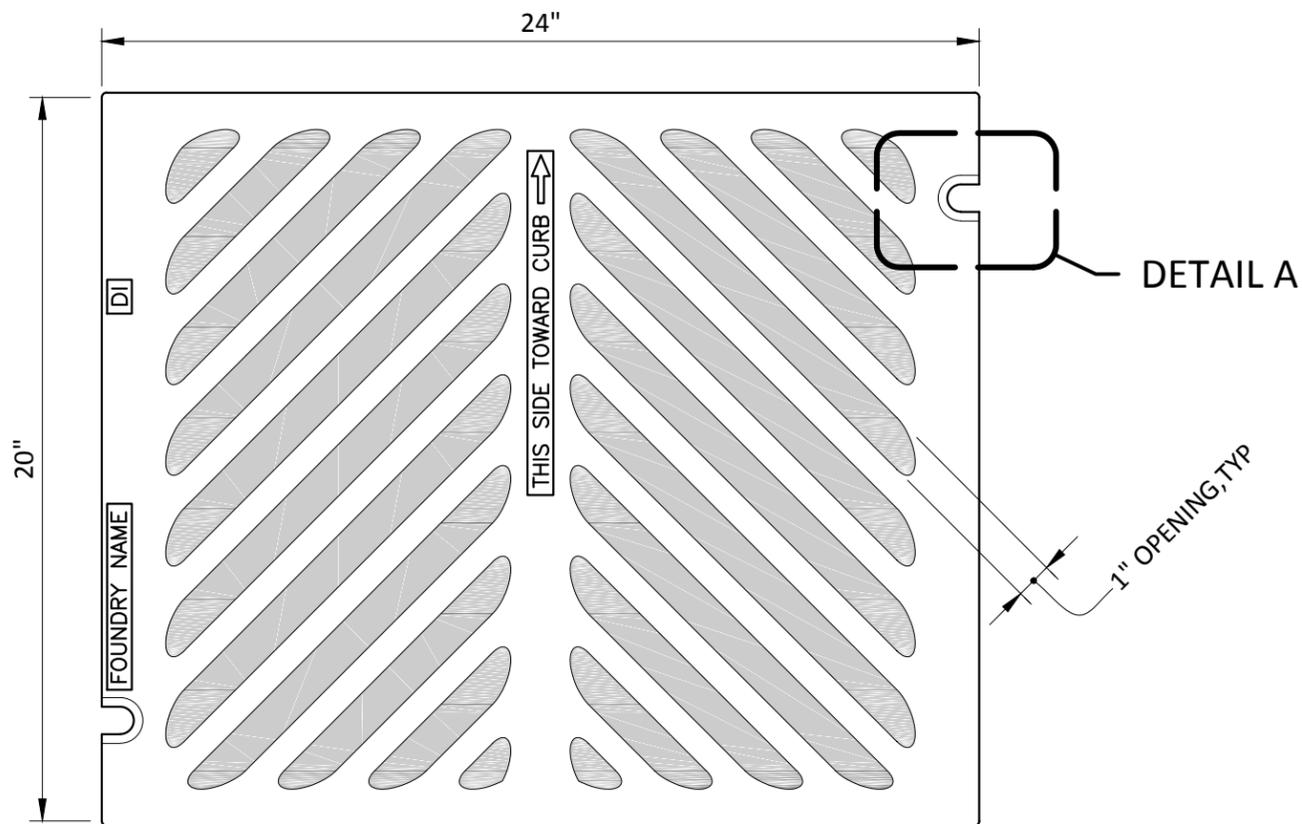
STANDARD DRAWING No.
406

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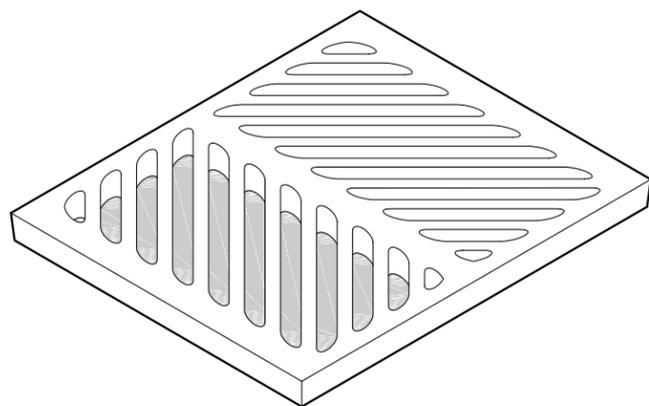


 CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT				
City Engineer R SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
TYPICAL FRAME AND GRATE INSTALLATION				STANDARD DRAWING No. 407

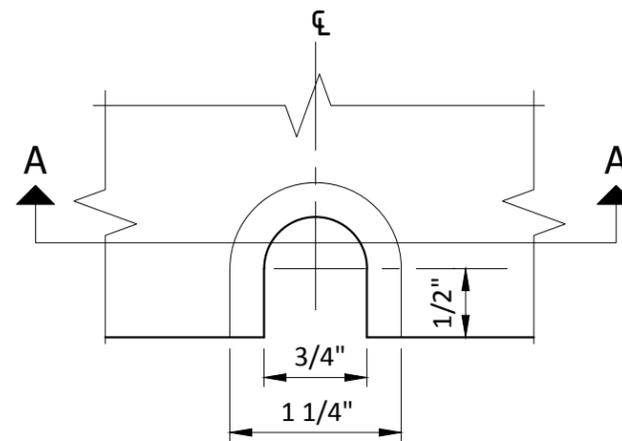
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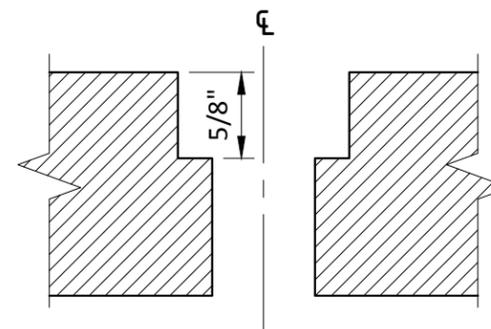
TOP



ISOMETRIC



BOLT-DOWN SLOT
DETAIL A



SECTION A-A
(SEE NOTE 1)

NOTES

1. BOLT-DOWN CAPABILITY IS REQUIRED ON ALL FRAMES, GRATES AND COVERS UNLESS SPECIFIED OTHERWISE IN THE CONTRACT. PROVIDE TWO HOLES IN THE FRAME THAT ARE VERTICALLY ALIGNED WITH THE GRATE OR COVER SLOTS. THE FRAME SHALL ACCEPT THE 5/8" - 11 NC X 2" STAINLESS STEEL RECESSED ALLEN HEAD CAP SCREW BEING TAPPED, OR OTHER APPROVED MECHANISM. LOCATION OF BOLT DOWN HOLES VARIES BY MANUFACTURER.
2. REFER TO WSDOT STANDARD SPECIFICATION 9-05.15(2) AND DESIGN CONSTRUCTION STANDARDS AND SPECIFICATIONS SECTION 4 FOR ADDITIONAL REQUIREMENTS.
3. FOR FRAME DETAILS, SEE STANDARD DRAWING 406.
4. THE THICKNESS OF THE GRATE SHALL NOT EXCEED 1 5/8".
5. VANED GRATES SHALL BE SPECIFIED, SEE STANDARD DRAWING 411 . THE CITY OF EVERETT SHALL GRANT THE USE OF A HERRINGBONE GRATE ON A CASE BY CASE BASIS.

WSDOT STD PLAN B-30.50-01, ACCEPTABLE SUBSTITUTE EXCEPT ALL STEEL RECESSED ALLEN SCREWS MUST BE STAINLESS STEEL

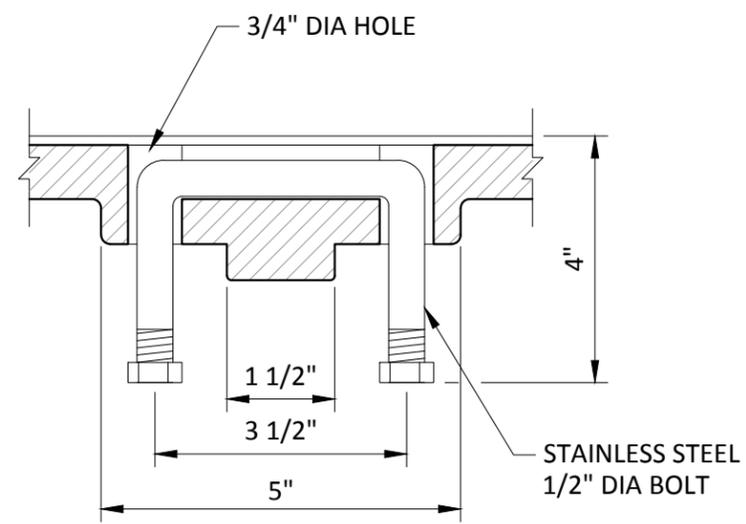
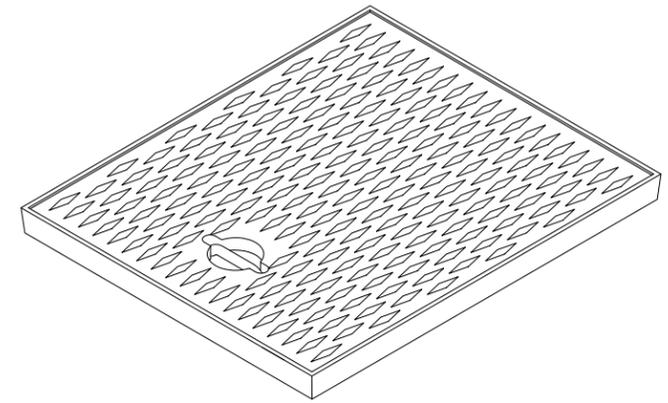
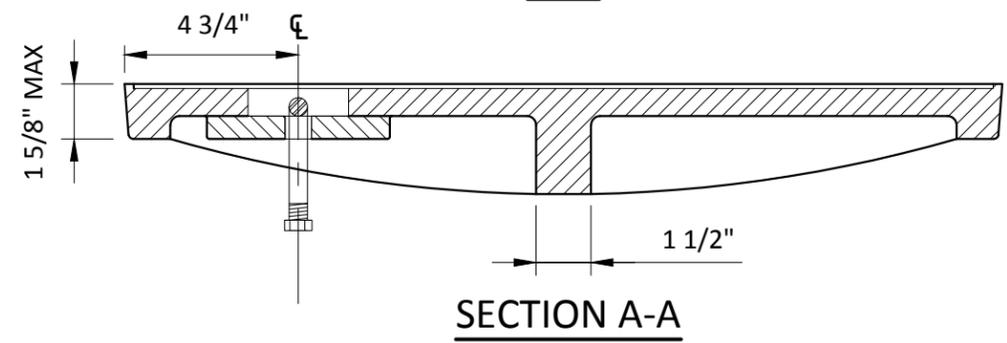
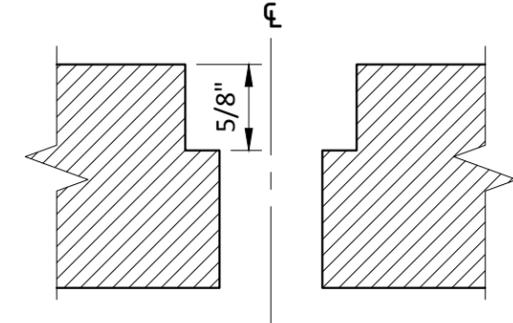
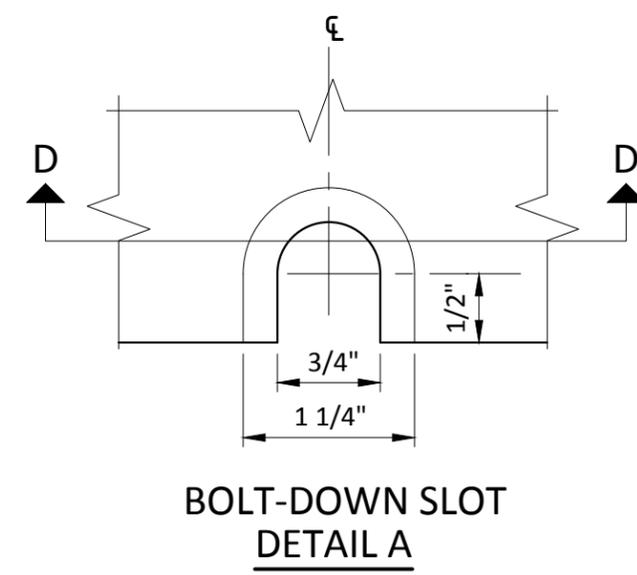
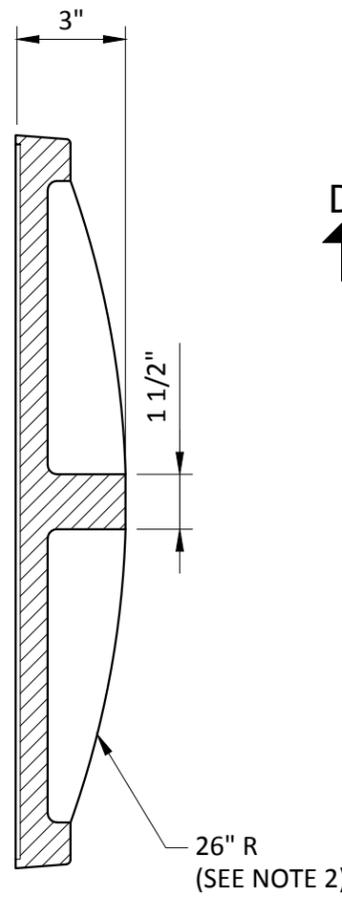
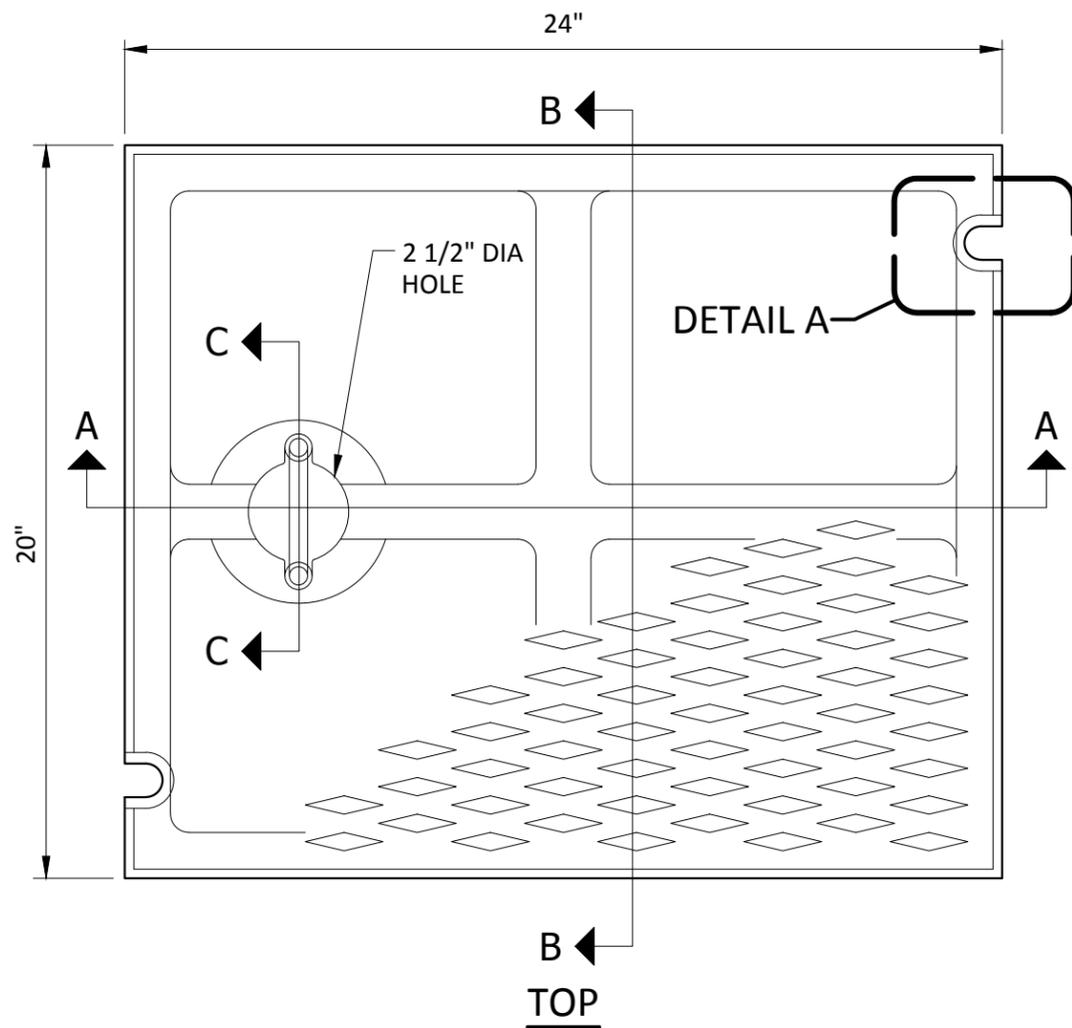


City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
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HERRINGBONE GRATE
FOR CATCH BASIN OR INLET

STANDARD DRAWING No.
409

DRAFT



LIFT HANDLE
SECTION C-C

NOTES

1. THIS FRAME IS DESIGNED TO ACCOMMODATE 20"X24" GRATES OR COVERS AS SHOWN ON STANDARD DRAWINGS 409 , 410 AND 411.
2. ALTERNATIVE REINFORCING DESIGNS ARE ACCEPTABLE IN LIEU OF THE RIB DESIGN.
3. REFER TO WSDOT STANDARD SPECIFICATION 9-05.15(2) AND DESIGN CONSTRUCTION STANDARDS AND SPECIFICATIONS SECTION 4 FOR ADDITIONAL REQUIREMENTS.
4. FOR FRAME DETAILS, SEE STANDARD DRAWING 406.

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 PLOTTED: 12/28/2016 1:39 PM

WSDOT STD PLAN B-30.20-02, ACCEPTABLE
 SUBSTITUTE EXCEPT ALL STEEL RECESSED ALLEN
 SCREWS MUST BE STAINLESS STEEL

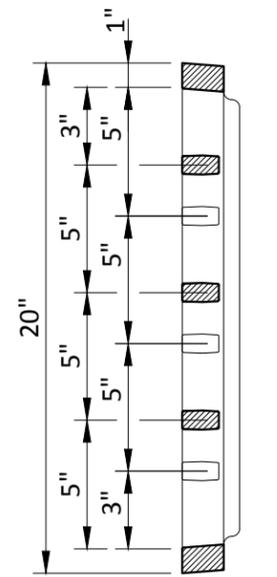
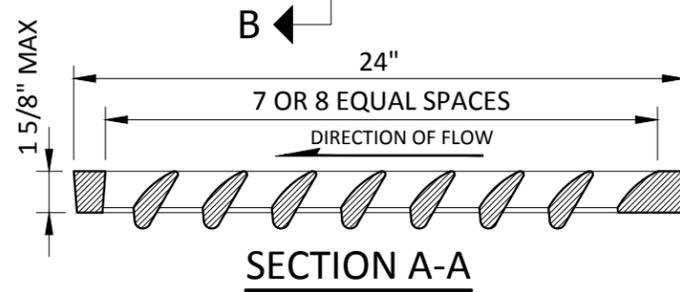
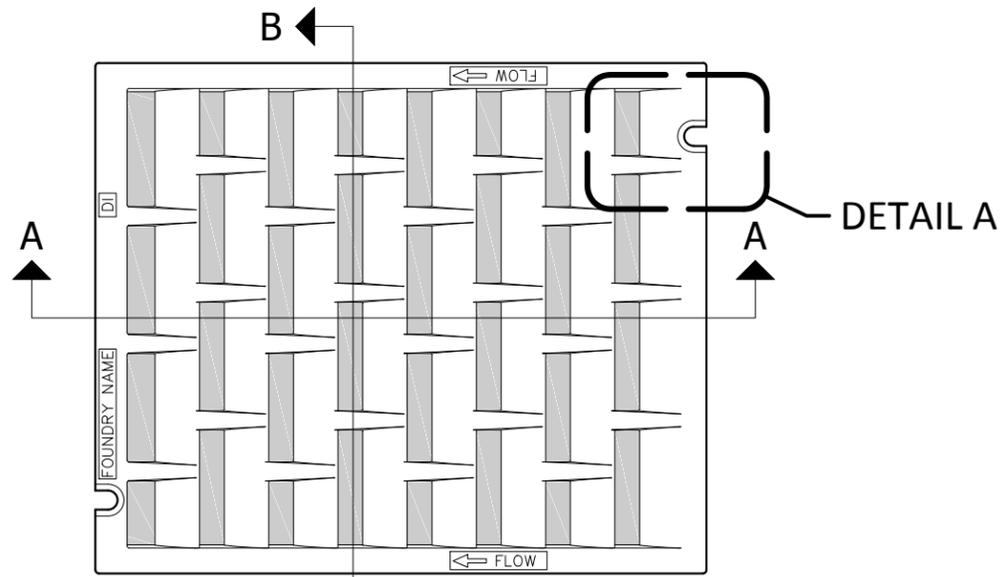
CITY OF EVERETT
EVERETT PUBLIC WORKS DEPARTMENT

City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
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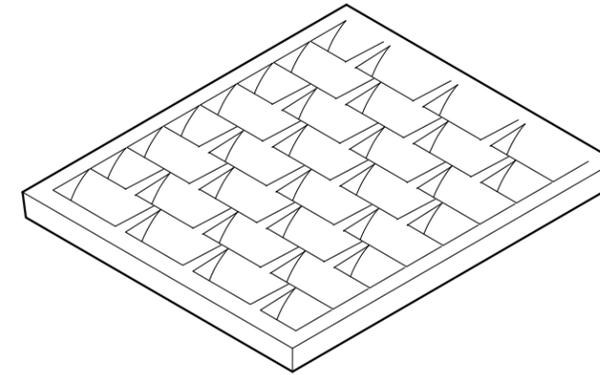
SOLID COVER
 FOR CATCH BASIN OR INLET

410

DRAFT



SECTION B-B

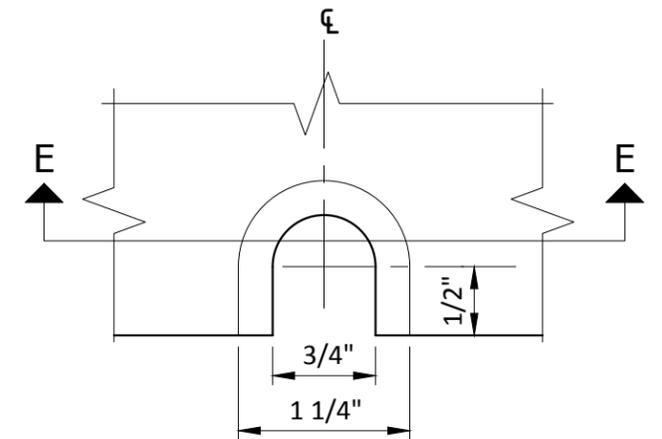


ISOMETRIC

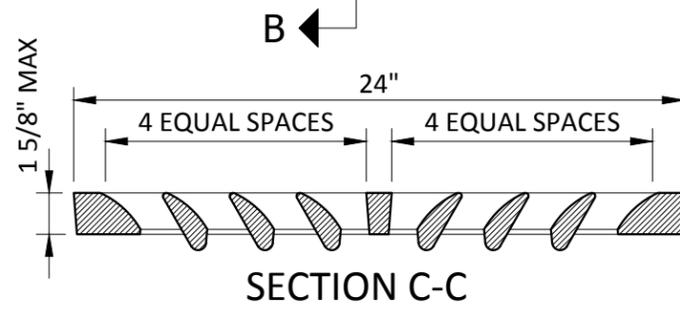
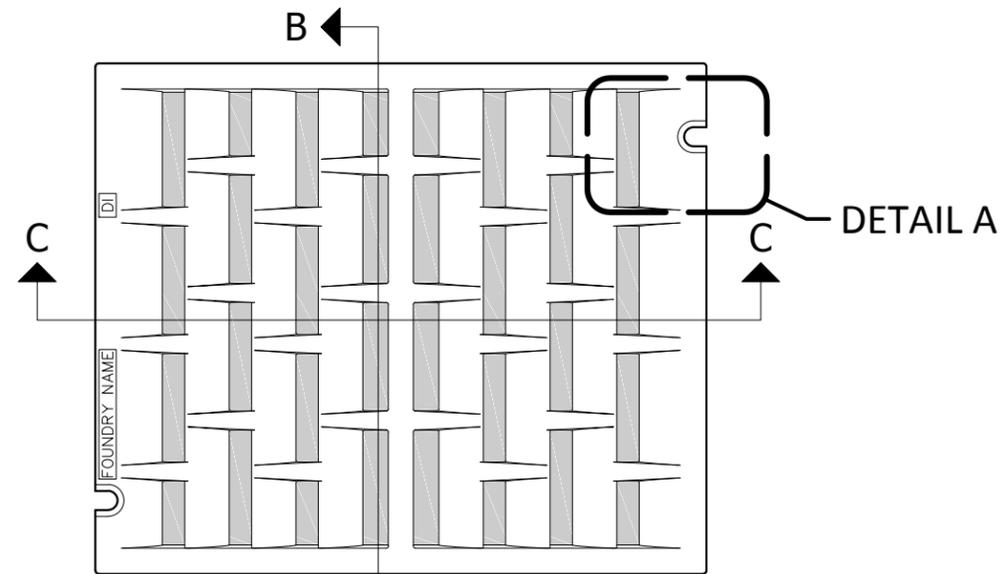
STANDARD DIRECTIONAL GRATE

NOTES

1. THIS FRAME IS DESIGNED TO ACCOMMODATE 20"X24" GRATES OR COVERS AS SHOWN ON STANDARD DRAWINGS 409 , 410 AND 411.
2. REFER TO WSDOT STANDARD SPECIFICATION 9-05.15(2) AND DESIGN CONSTRUCTION STANDARDS AND SPECIFICATIONS SECTION 4 FOR ADDITIONAL REQUIREMENTS.
3. FOR FRAME DETAILS, SEE STANDARD DRAWINGS 406 AND 407.

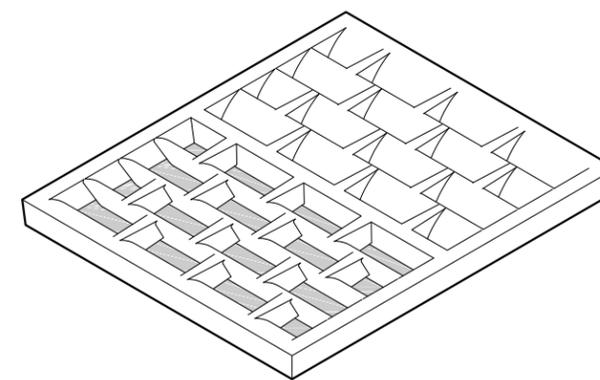


BOLT-DOWN SLOT
DETAIL A

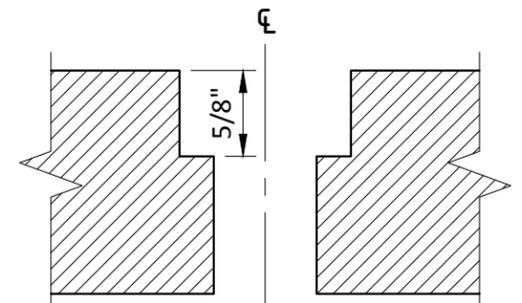


SECTION C-C

BI-DIRECTIONAL OPTION



ISOMETRIC



SECTION E-E
(SEE NOTE 1)

WSDOT STD PLAN B-30.30-01 AND B-30.40-01, ACCEPTABLE SUBSTITUTE EXCEPT ALL STEEL RECESSED ALLEN SCREWS MUST BE STAINLESS STEEL

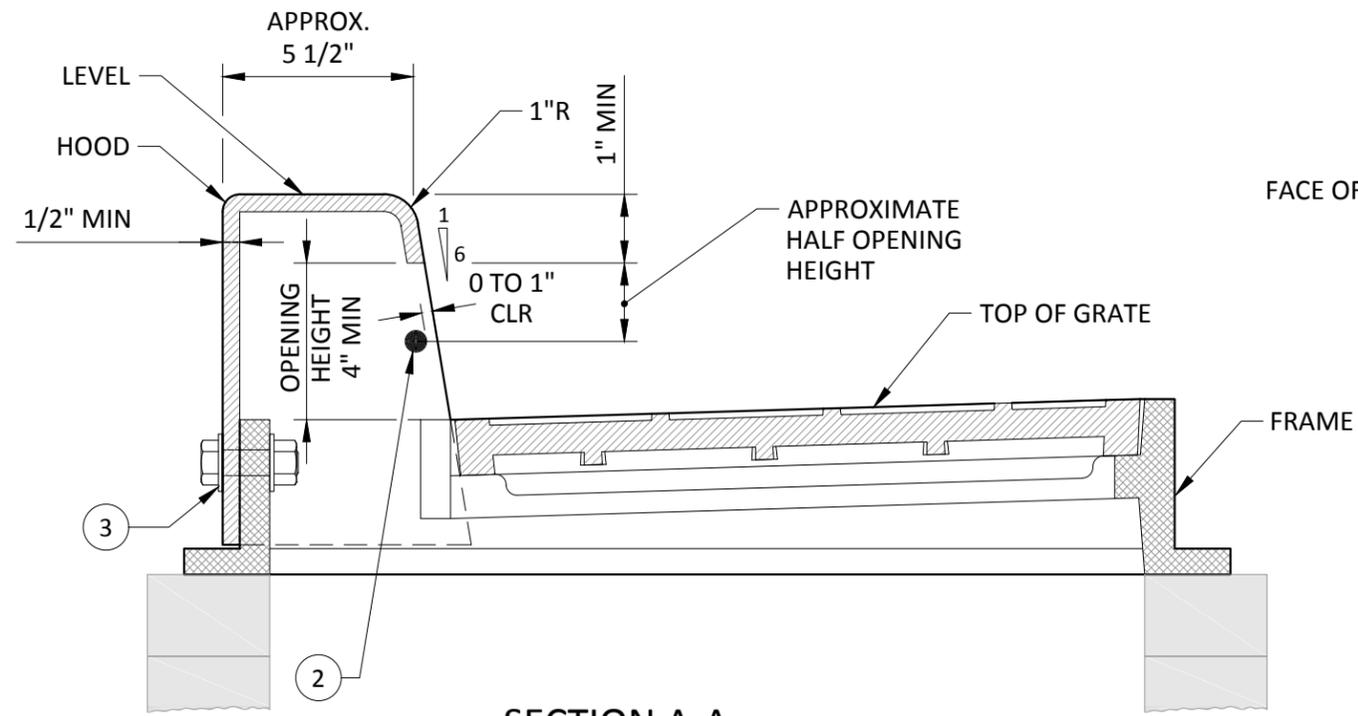


City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
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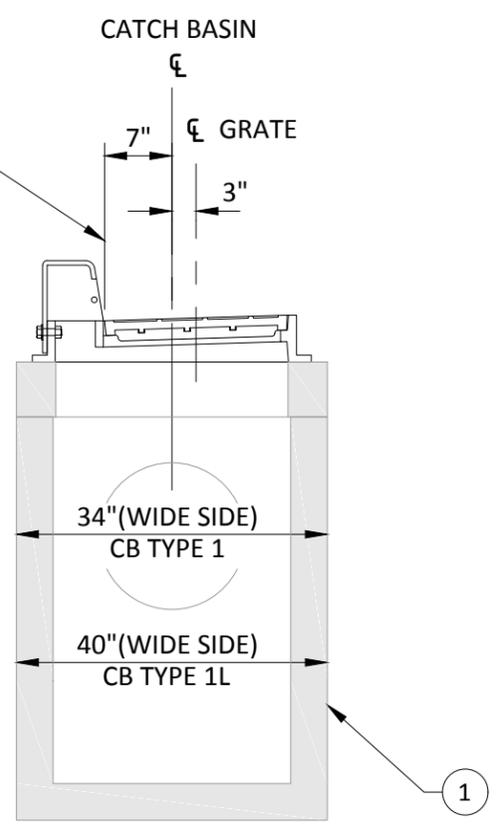
VANED GRATES
FOR CATCH BASIN OR INLET

411

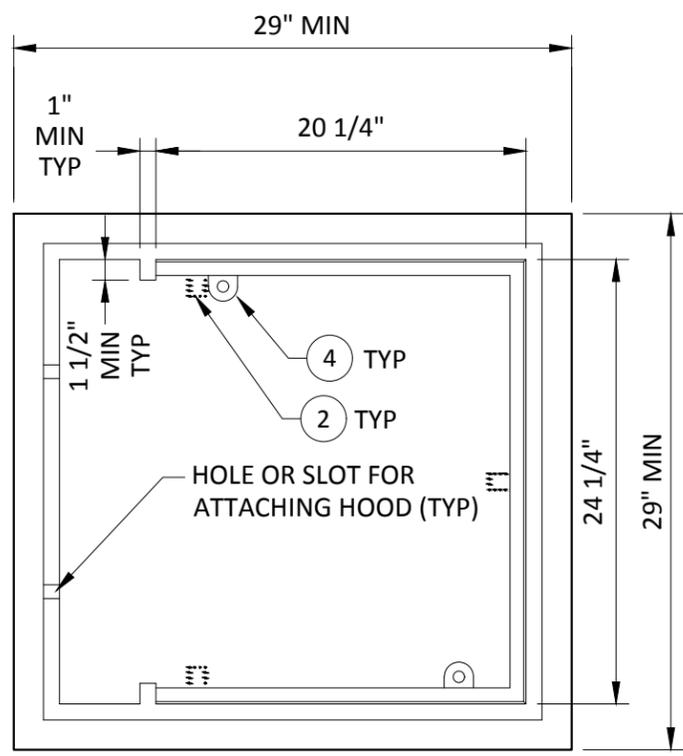
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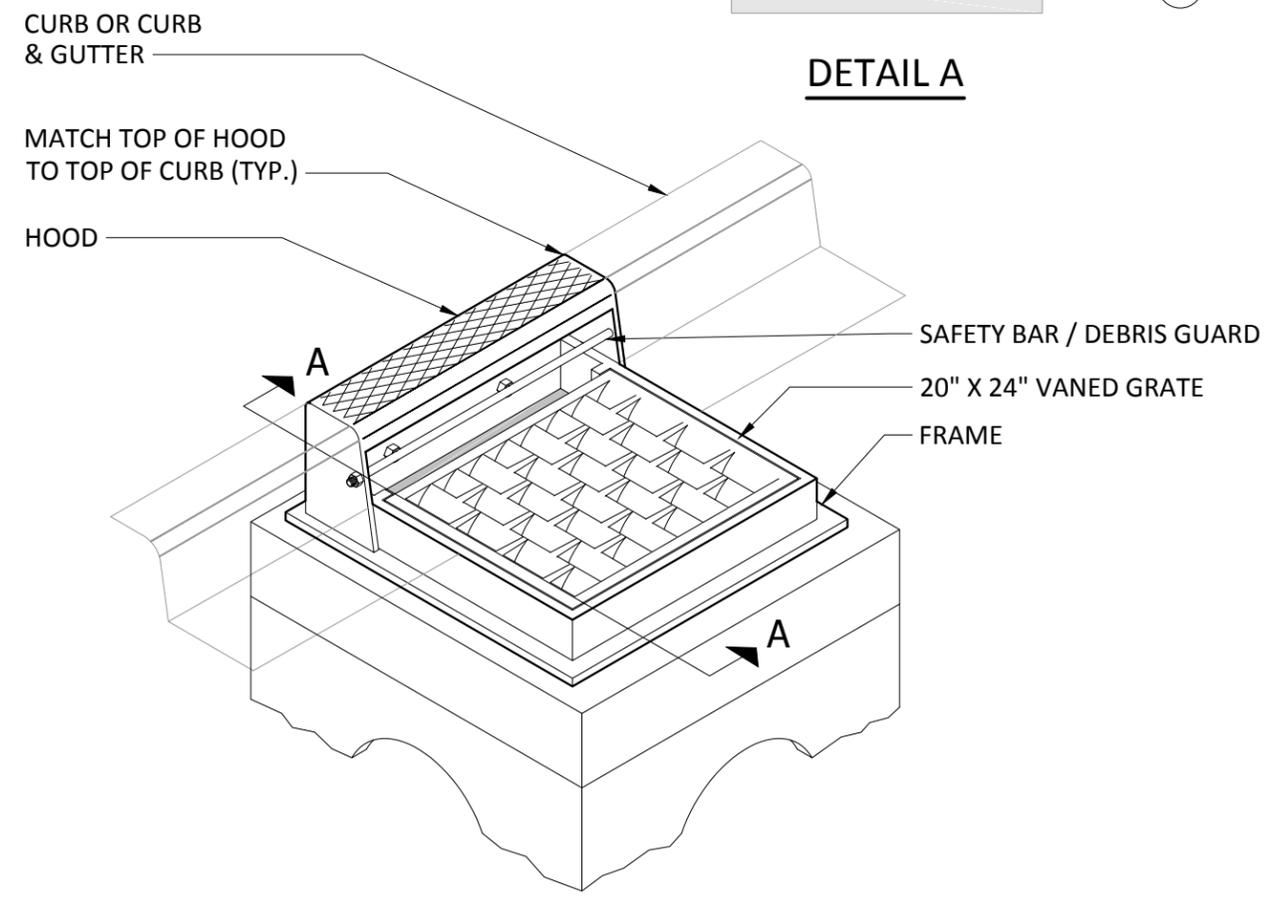
SECTION A-A



DETAIL A



TOP VIEW FRAME DETAIL



ISOMETRIC VIEW COMBINATION INLET FRAME, HOOD, AND VANED GRATE

NOTES

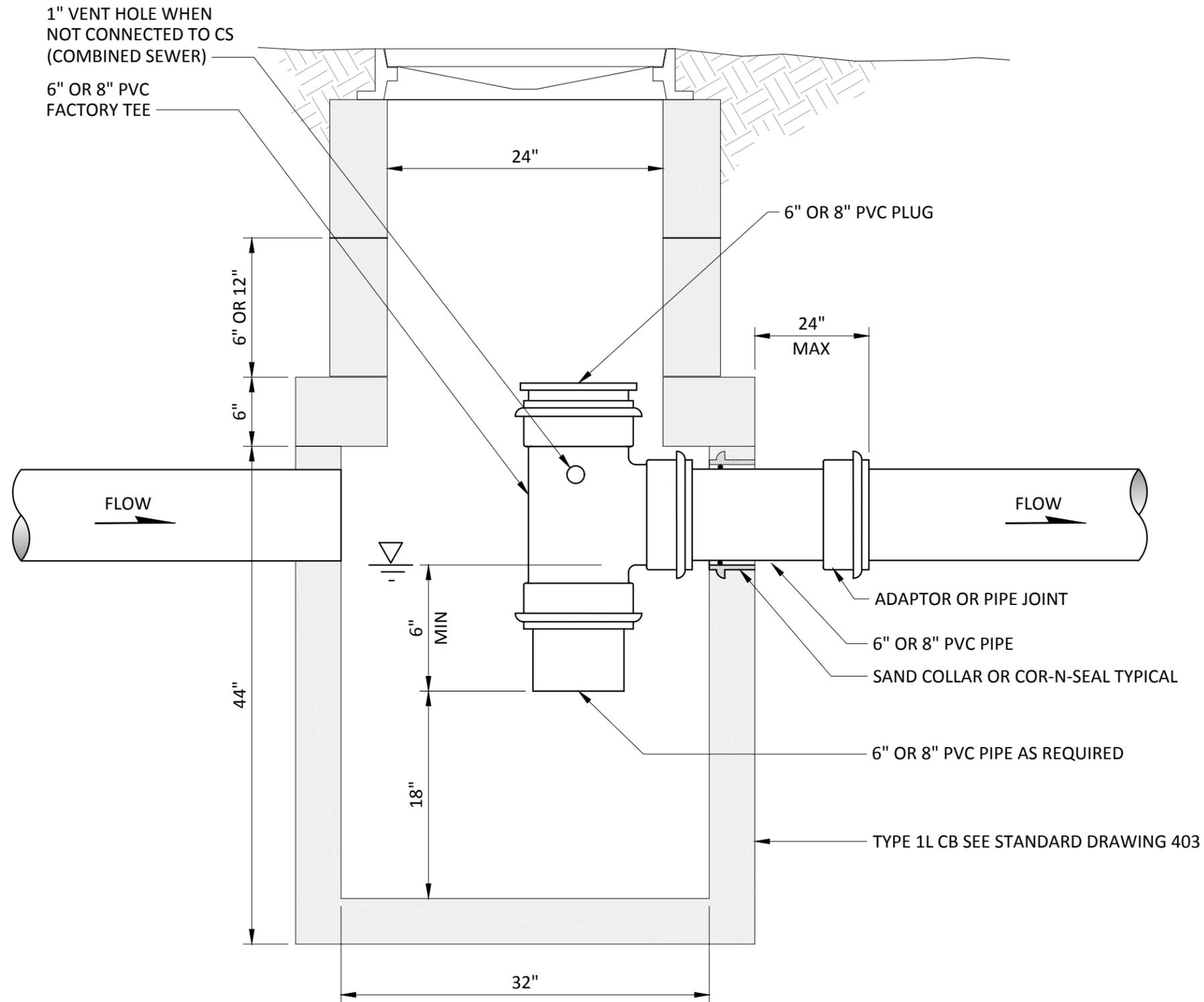
1. THIS INLET REQUIRES THE PRECAST CATCH BASIN UNIT TO BE ROTATED 90 DEGREES SO THAT THE NARROW SIDE IS PARALLEL TO THE CURB LINE. WHEN CALCULATING OFFSETS FROM CURB TO CENTERLINE OF THE PRECAST CATCH BASIN, PLEASE NOTE THAT THE CENTERLINE OF THE GRATE IS NOT THE CENTERLINE OF THE PRECAST CATCH BASIN. SEE SECTION A.
2. THE DIMENSIONS OF THE FRAME AND HOOD MAY VARY SLIGHTLY AMONG DIFFERENT MANUFACTURERS. THE FRAME MAY HAVE CAST FEATURES INTENDED TO SUPPORT A DEBRIS GUARD. HOOD UNITS MAY BE MOUNTED INSIDE OR OUTSIDE OF THE FRAME. THE METHODS FOR FASTENING THE SAFETY BAR / DEBRIS GUARD TO THE HOOD MAY VARY. THE HOOD MAY INCLUDE CASTING LUGS. THE TOP OF THE HOOD MAY BE CAST WITH A PATTERN.
3. ATTACH THE HOOD TO THE FRAME WITH TWO 3/4" x 2" STAINLESS STEEL HEX HEAD BOLTS, NUTS, AND OVERSIZE WASHERS. THE WASHERS SHALL HAVE DIAMETERS ADEQUATE TO ENSURE FULL BEARING ACROSS THE SLOTS.
4. BOLT-DOWN CAPABILITY IS REQUIRED ON ALL FRAMES, GRATES AND COVERS, UNLESS SPECIFIED IN THE CONTRACT. PROVIDE TWO HOLES IN THE FRAME THAT ARE VERTICALLY ALIGNED WITH THE GRATE SLOTS. THE FRAME SHALL ACCEPT THE 5/8" - 11 NC x 2" STAINLESS STEEL ALLEN HEAD CAP SCREW BY BEING TAPPED, OR OTHER APPROVED MECHANISM. THE LOCATION OF BOLT-DOWN HOLES VARIES AMONG DIFFERENT MANUFACTURERS. SEE BOLT-DOWN DETAIL, STANDARD DRAWING 406.
5. ONLY DUCTILE IRON VANED GRATES SHALL BE USED. SEE STANDARD DRAWING 411 FOR GRATE DETAILS. REFER TO WSDOT STANDARD SPECIFICATION 9-05.15(2) AND DESIGN CONSTRUCTION STANDARDS AND SPECIFICATIONS SECTION 4 FOR ADDITIONAL REQUIREMENTS.
6. THIS PLAN IS INTENDED TO SHOW THE INSTALLATION DETAILS OF A MANUFACTURED PRODUCT. THIS PLAN IS NOT INTENDED TO SHOW THE SPECIFIC DETAILS NECESSARY TO FABRICATE THE CASTINGS DEPICTED IN THIS DRAWING.

WSDOT STD PLAN B-25.20-01, ACCEPTABLE SUBSTITUTE EXCEPT ALL STEEL RECESSED ALLEN SCREWS MUST BE STAINLESS STEEL

City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
TITLE OPEN CURB FACE FRAME AND GRATE				STANDARD DRAWING No. 412

DRAFT

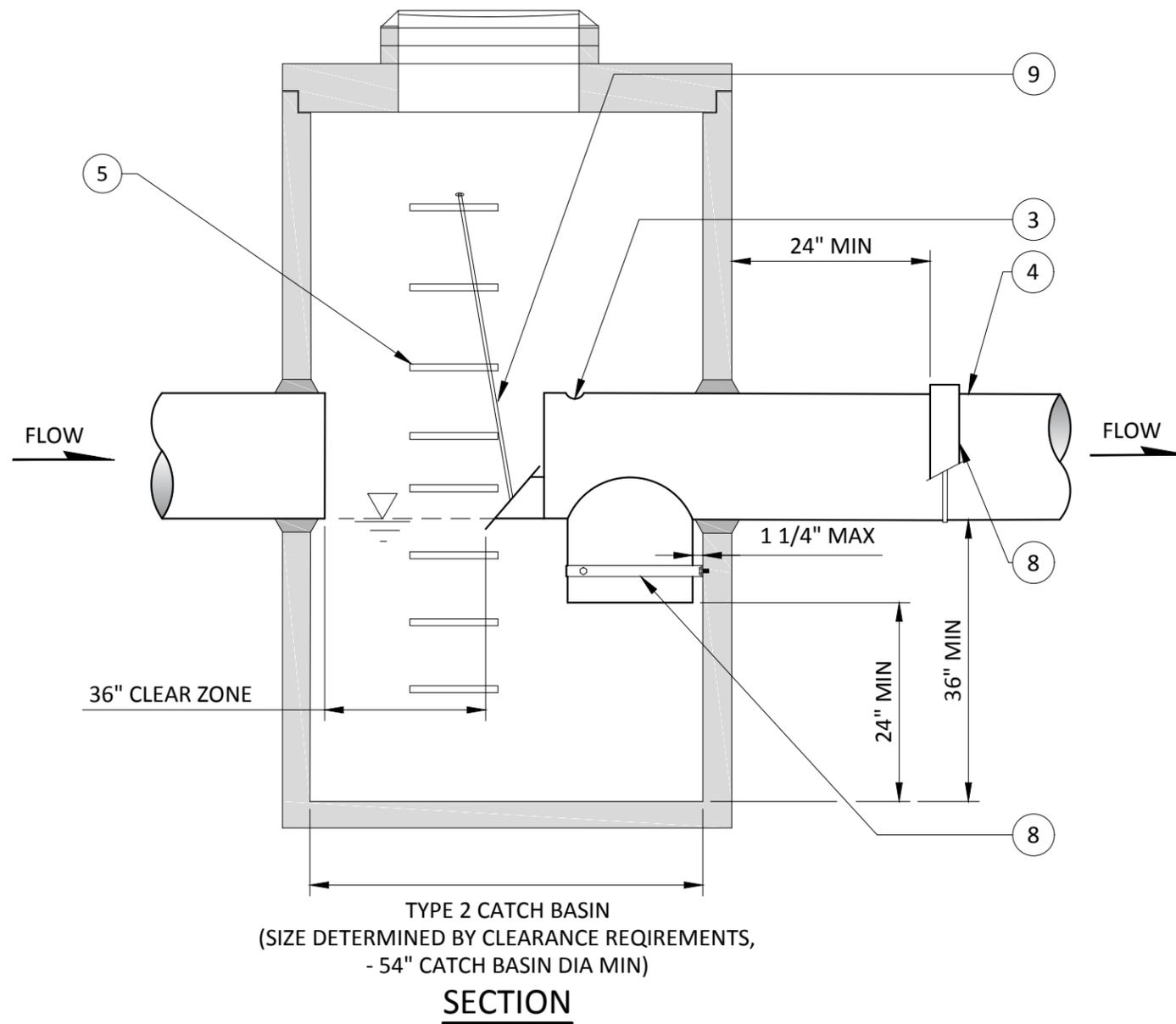
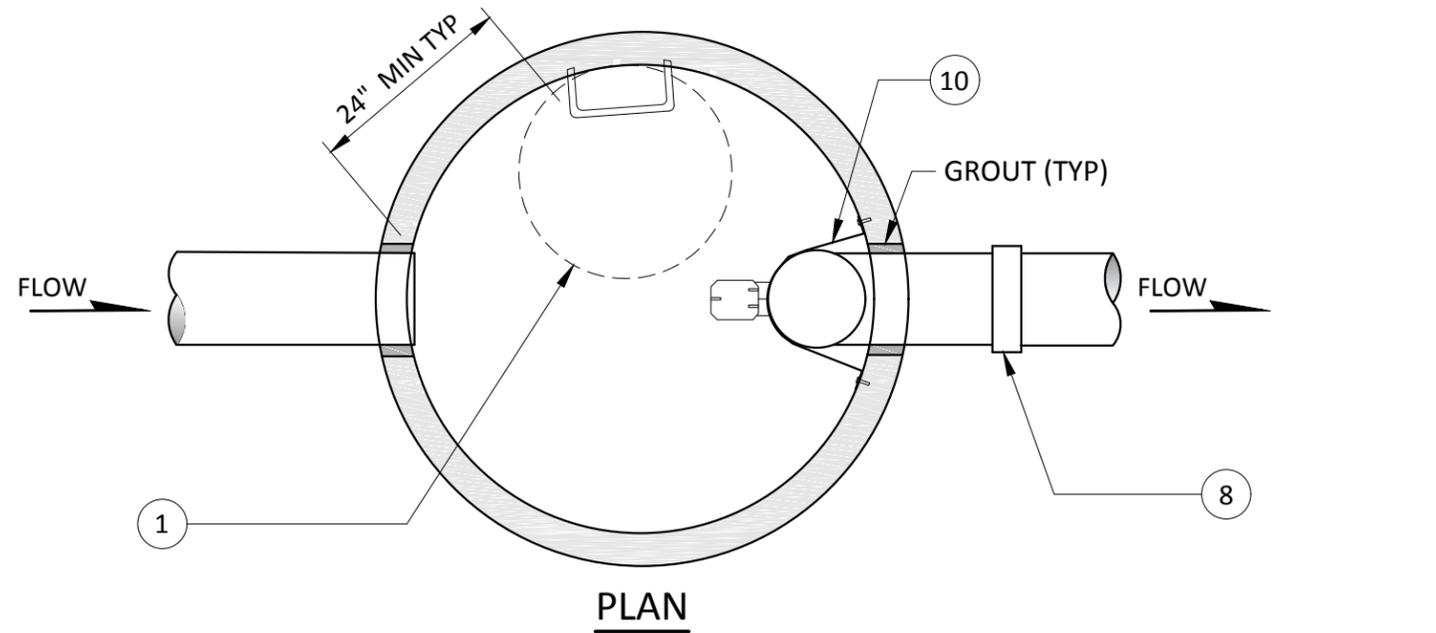
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 PLOTTED: 12/28/2016 1:40 PM

DRAFT

		CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT	
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB
TITLE FLOATABLE MATERIAL SEPARATOR & GAS TRAP FOR 6" OR 8" LINES			Current Rev Date 12/30/2016 STANDARD DRAWING No. 413



TYPE 2 CATCH BASIN
(SIZE DETERMINED BY CLEARANCE REQUIREMENTS,
- 54" CATCH BASIN DIA MIN)

SECTION

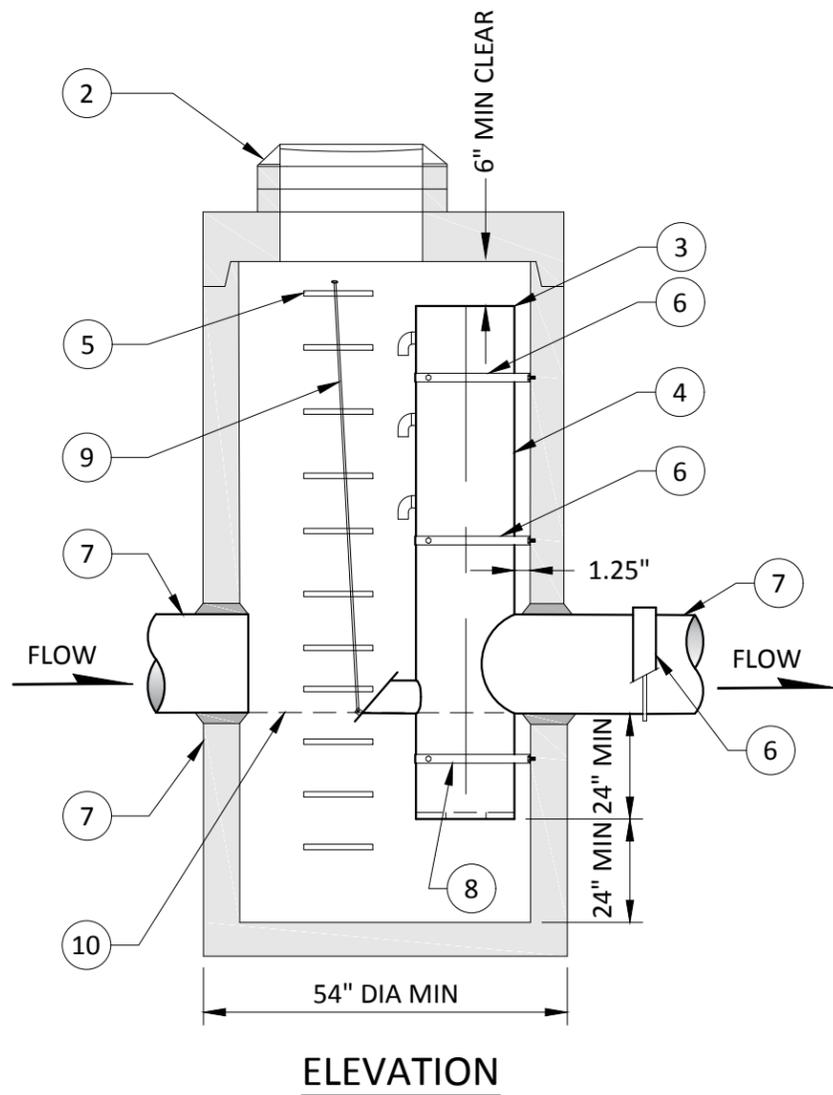
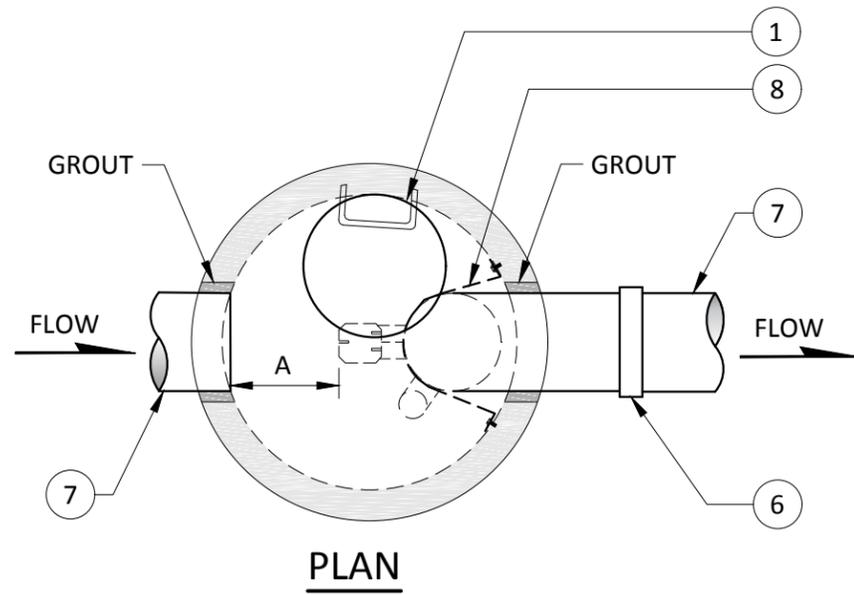
NOTES

1. INSTALL CATCH BASIN TOP, FRAME, GRATE AND SECTIONS SO THAT LIFT GATE IS VISIBLE THROUGH OPENING AND STEPS CLEAR INLET AND RESTRICTOR UNIT.
2. INSTALL LOCKING FRAME & GRATE OR COVER PER STANDARD DRAWINGS 406 AND 607. FRAME AND COVER PER STANDARD DRAWING 607 IS REQUIRED IF INSTALLATION IS NOT IN PAVED AREA OR IS NOT TO FUNCTION AS A CATCH BASIN.
3. 1" VENT HOLE WHEN NOT CONNECTED TO COMBINED SEWER SYSTEM.
4. SEPARATOR ASSEMBLY SEE STANDARD DRAWING 413 AS APPLICABLE.
5. STEPS PER STANDARD DRAWING 606.
6. MIN CLEARANCE: 36" FOR OUTLETS OF 24" AND LARGER 18", FOR OUTLETS OF 18" AND SMALLER
7. BAND STRAP WITH GASKET
8. SECURE SEPARATOR TO CATCH BASIN WITH 8 GA ALUMINUM STRAP. BOLT TO CATCH BASIN WALL WITH STAINLESS STEEL ANCHOR BOLTS AND TO SEPARATOR UNIT.
9. FOR LIFT GATE ASSEMBLY AND ALUMINUM ROD LIFT HANDLE ASSEMBLY SEE STANDARD DRAWING 416.

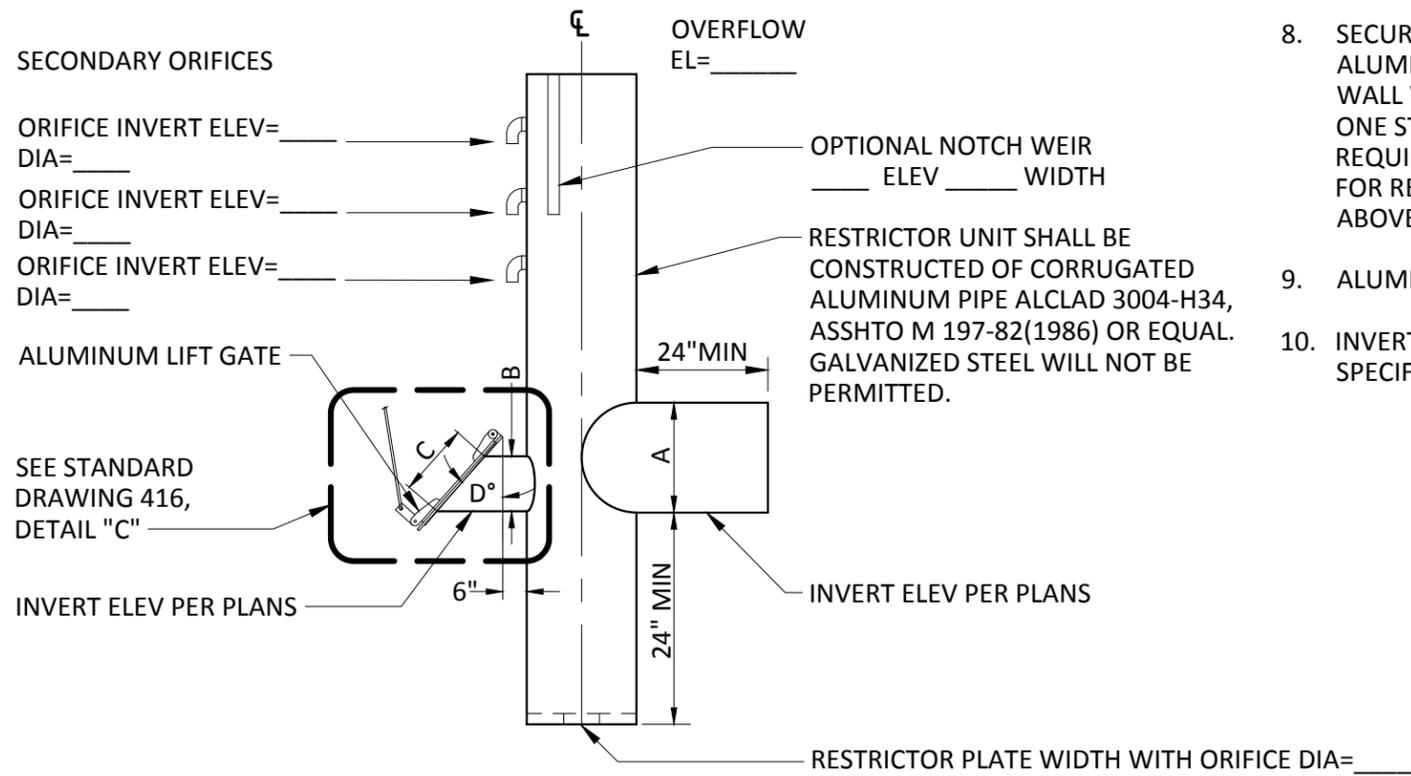
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City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
FLOATABLE MATERIAL SEPARATOR AND/OR GAS TRAP FOR 12" AND LARGER LINES				414



DETAIL "A" TYPICAL RESTRICTOR INSTALLATION



ITEM	DESCRIPTION	SIZE	
A	OUTLET	18" AND SMALLER	24" AND LARGER
B	CLEAN OUT	8" ID	
C	GATE SIZE	8" OPENING	12" OPENING
D	ANGLE	42°±	

DETAIL "B" TYPICAL RESTRICTOR ASSEMBLY

NOTES

1. INSTALL CB TOP, FRAME, GRATE AND SECTIONS SO THAT LIFT GATE IS VISIBLE THROUGH OPENING AND STEPS CLEAR INLET AND RESTRICTOR UNIT.
2. INSTALL LOCKING FRAME & GRATE OR LID SEE STANDARD DRAWINGS 405 OR 607. FRAME AND LID SEE STANDARD DRAWING 607 IS REQUIRED IF INSTALLATION IS NOT IN PAVED AREA OR IS NOT TO FUNCTION AS A CB.
3. OVERFLOW ELEVATION PER PLANS.
4. RESTRICTOR ASSEMBLY SEE DETAIL B AND STANDARD DRAWING 416, DETAIL C.
5. FOR STEPS SEE STANDARD DRAWING 606.
6. BAND STRAP WITH GASKET.
7. SEE PLAN AND SPECIFICATIONS FOR SIZE AND TYPE OF PIPE ENTERING AND EXITING CB.
8. SECURE RESTRICTOR TO CATCH BASIN WITH 8 GA ALUMINUM STRAPS AND BOLT TO CATCH BASIN WALL WITH STAINLESS STEEL ANCHOR BOLTS. ONE STRAP ABOVE AND BELOW OUTLET REQUIRED, INTERMEDIATE STRAPS REQUIRED FOR RESTRICTOR RISERS GREATER THAN 12' ABOVE OUTLET.
9. ALUMINUM ROD LIFT HANDLE ASSEMBLY
10. INVERT ELEVATION: SEE PLANS AND SPECIFICATIONS.

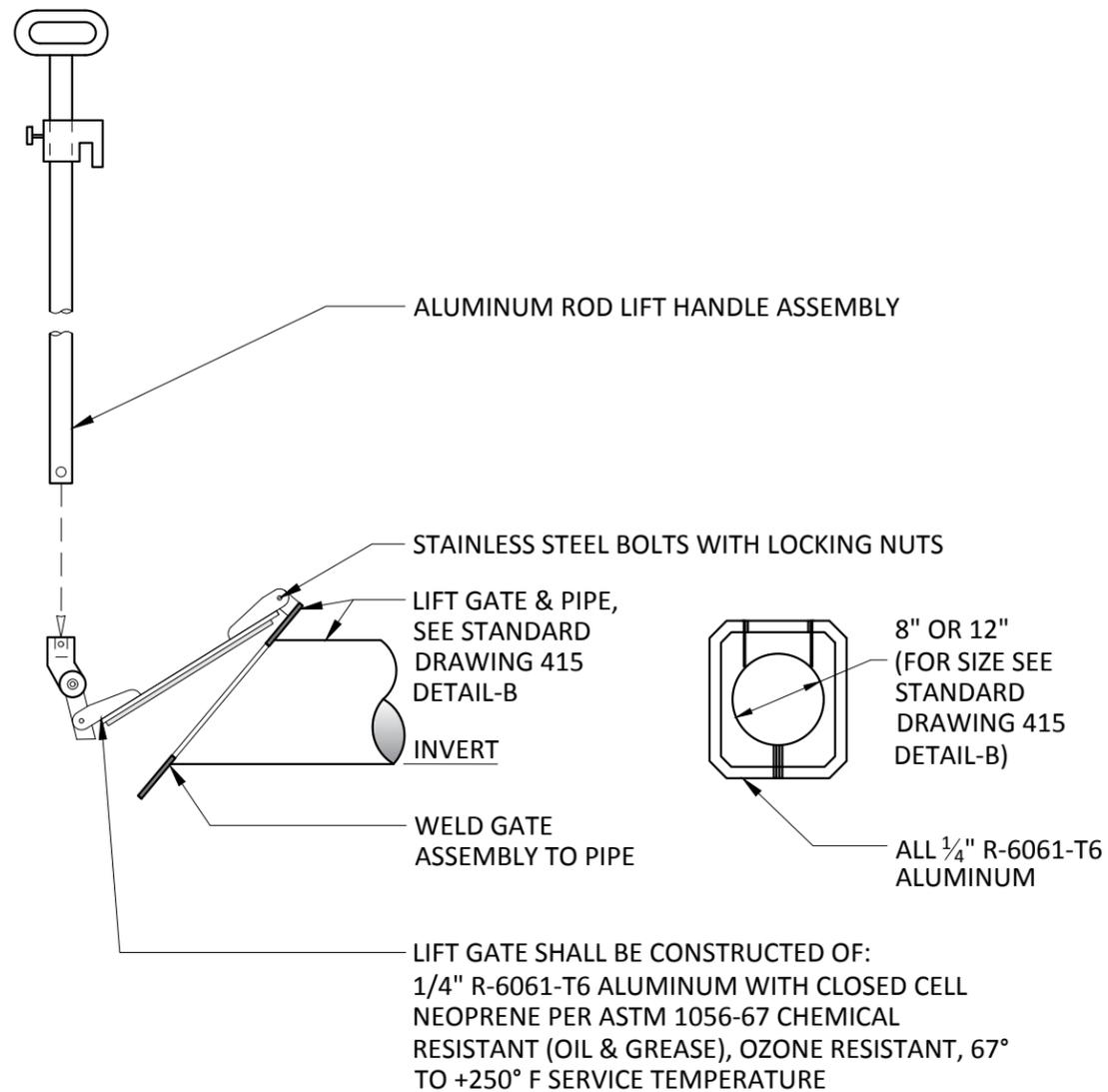
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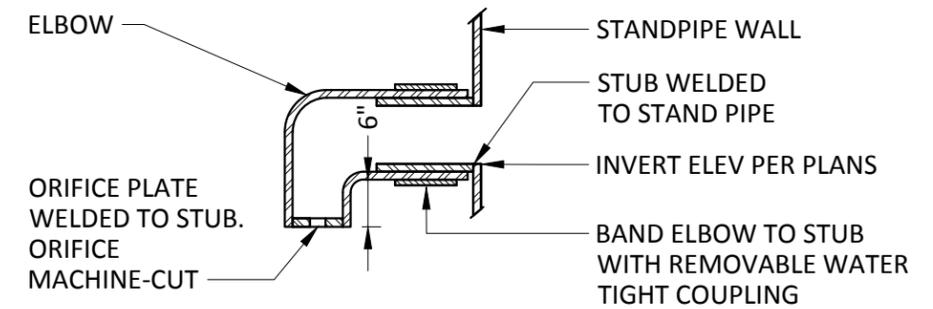


CITY OF EVERETT
PUBLIC WORKS DEPARTMENT

City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
TYPICAL RESTRICTOR INSTALLATION				415



DETAIL "C" LIFT GATE ASSEMBLY & GATE DETAIL



**ALL PARTS TO BE R-6061-T6 ALUMINUM
SECONDARY ORIFICE DETAIL**

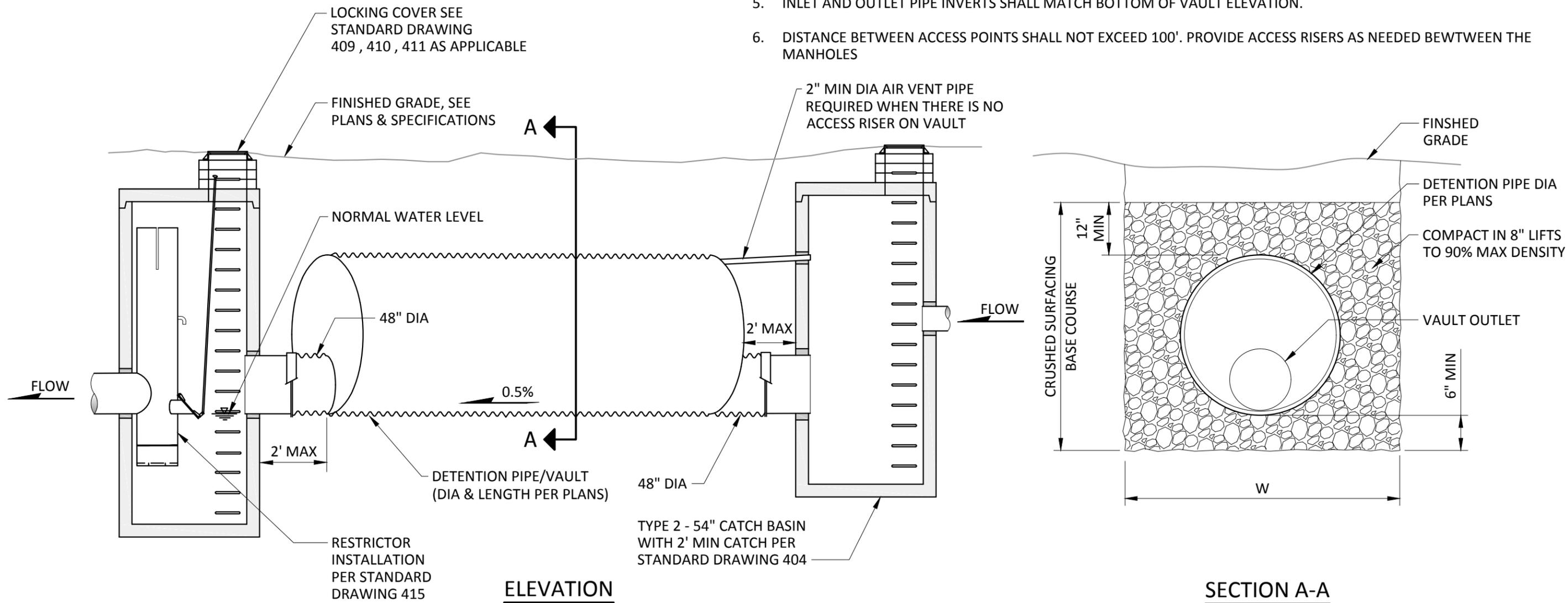
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 CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT				
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
LIFT GATE ASSEMBLY & SECONDARY ORIFICE DETAIL				STANDARD DRAWING No. 416

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NOTES

1. DETENTION STRUCTURE SHALL BE FABRICATED FROM ONE OF THE FOLLOWING:
 - A. CORRUGATED ALUMINUM PIPE 12 GAGE MIN.
 - B. HIGH DENSITY POLYETHYLENE PIPE.
2. ANNUAL INSPECTIONS AND CLEANING REQUIRED BY OWNER TO ENSURE PROPER OPERATION OF DETENTION SYSTEM.
3. W = MAXIMUM WIDTH OF TRENCH FOR PIPE/VAULT PER MANUFACTURER INSTALATION INSTRUCTIONS.
4. COMPACT IN 8" LIFTS TO 90% MAX DENSITY.
5. INLET AND OUTLET PIPE INVERTS SHALL MATCH BOTTOM OF VAULT ELEVATION.
6. DISTANCE BETWEEN ACCESS POINTS SHALL NOT EXCEED 100'. PROVIDE ACCESS RISERS AS NEEDED BEWTWEEN THE MANHOLES

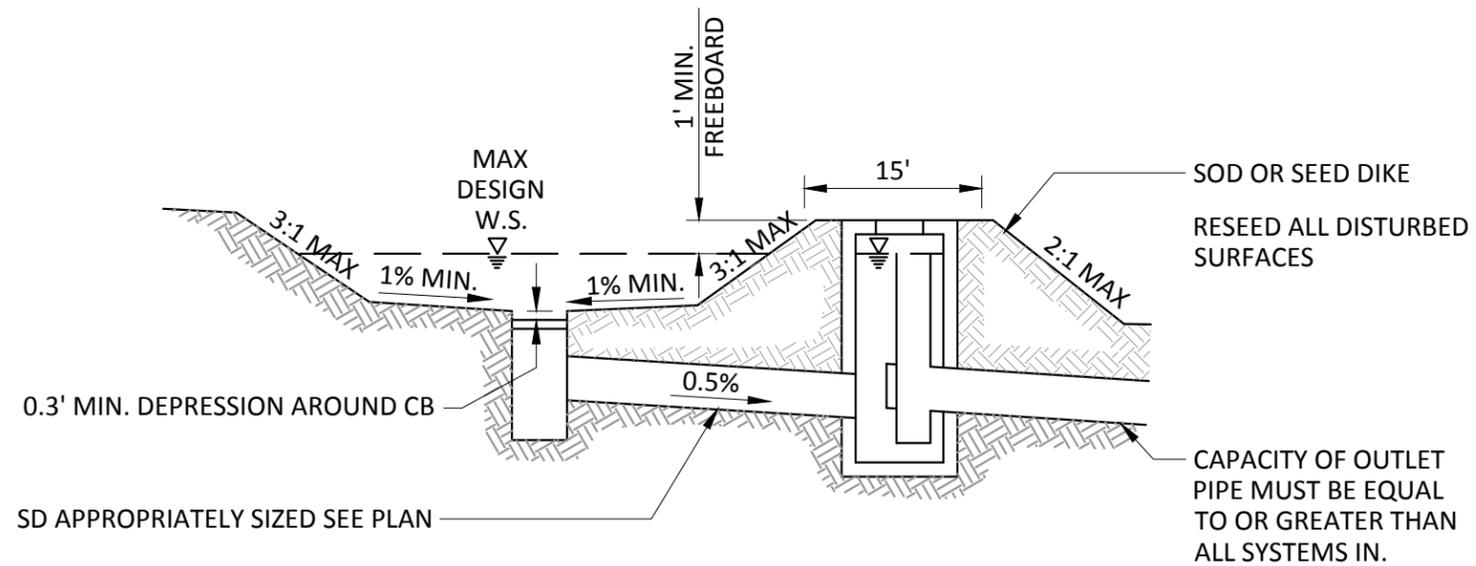
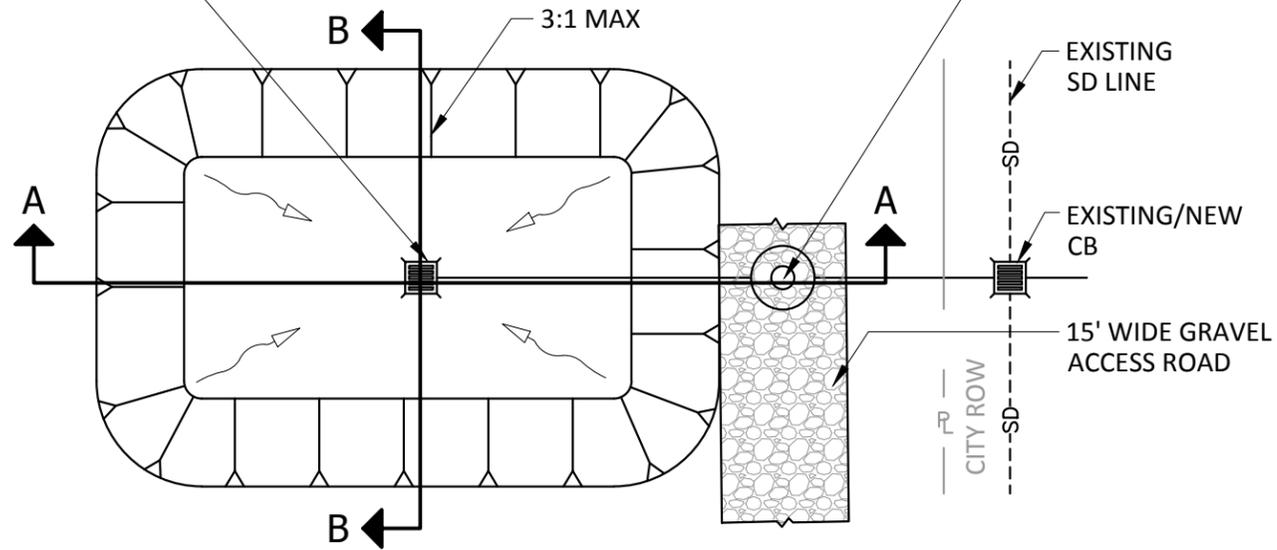


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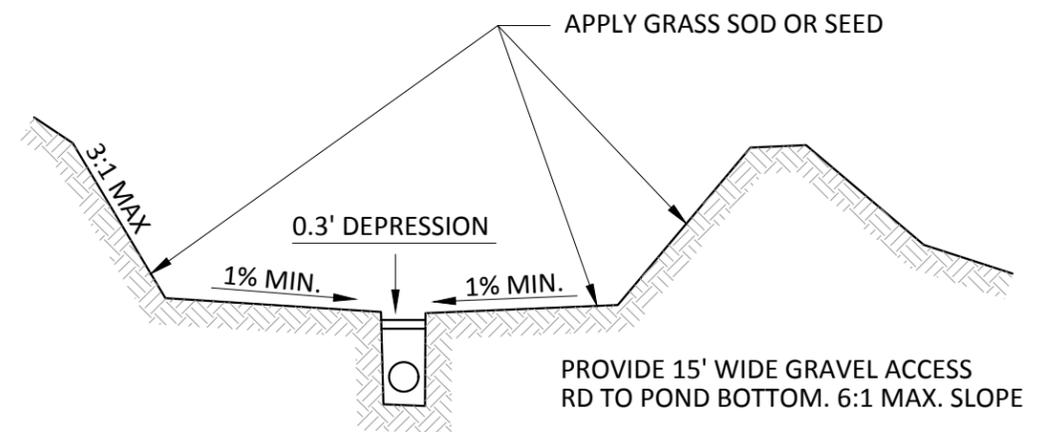
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		CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT	
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB
TITLE TYPICAL CLOSED UNDERGROUND DETENTION SYSTEM			Current Rev Date 12/30/2016 STANDARD DRAWING No. 418

CB ELEVATIONS PER PLAN



SECTION A-A



SECTION B-B

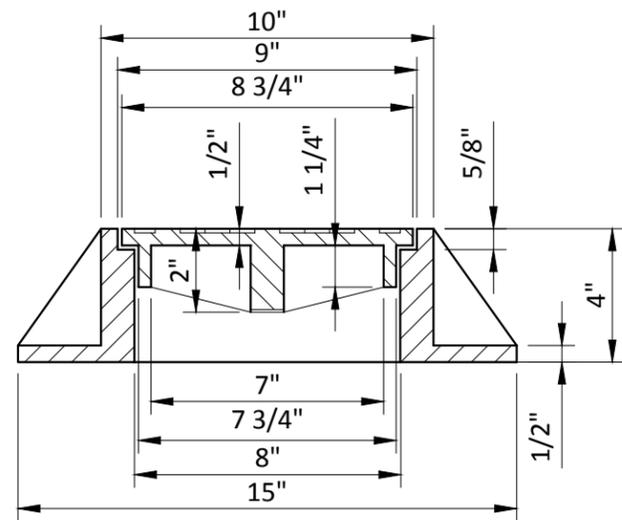
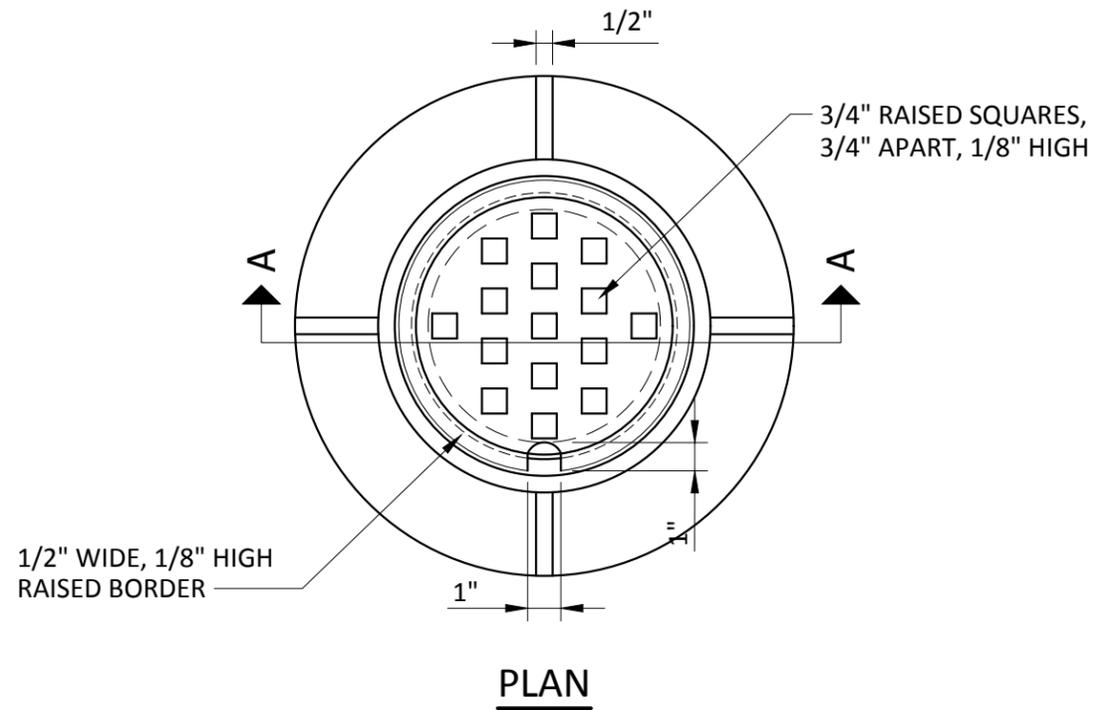
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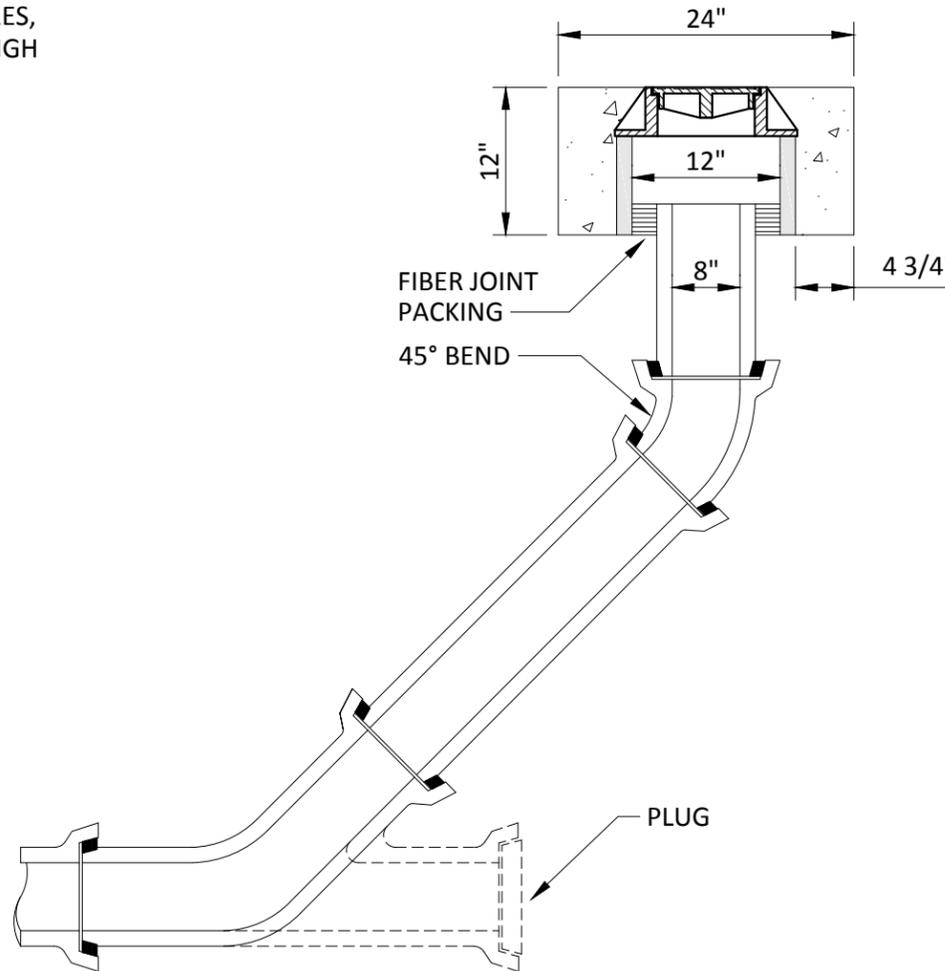
 CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT				
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
TYPICAL DRY TYPE DETENTION POND				STANDARD DRAWING No. 419

NOTES

1. 8" PVC THREADED PLUG MAYBE SUBSTITUTED FOR CAST IRON RING AND COVER IN LANDSCAPING AREA.



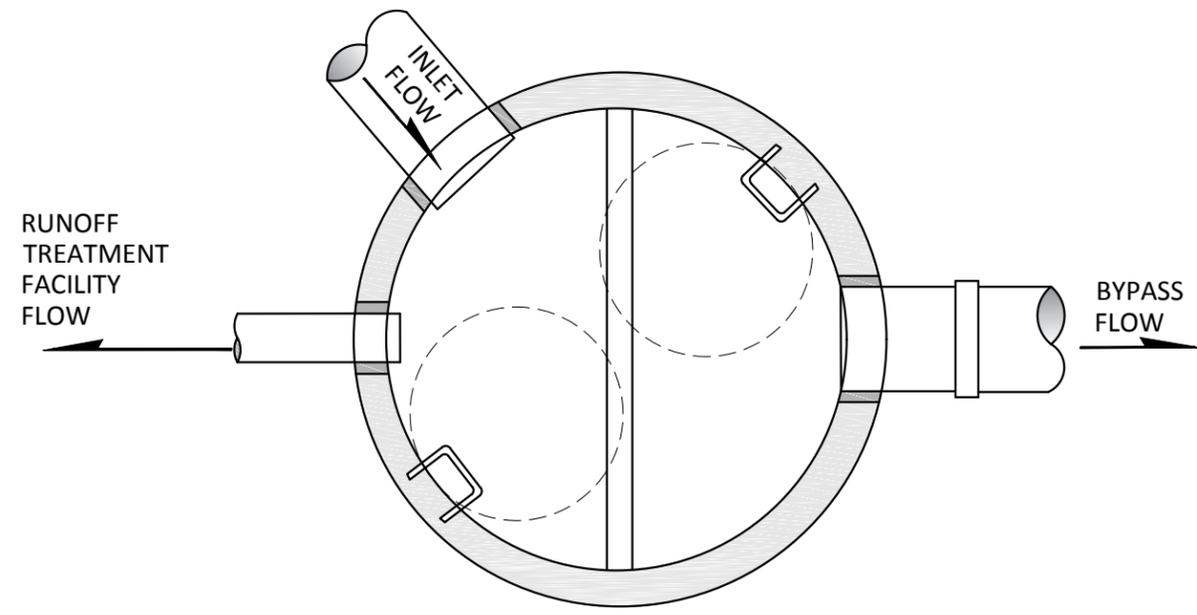
**SECTION A-A
CAST IRON RING AND COVER**



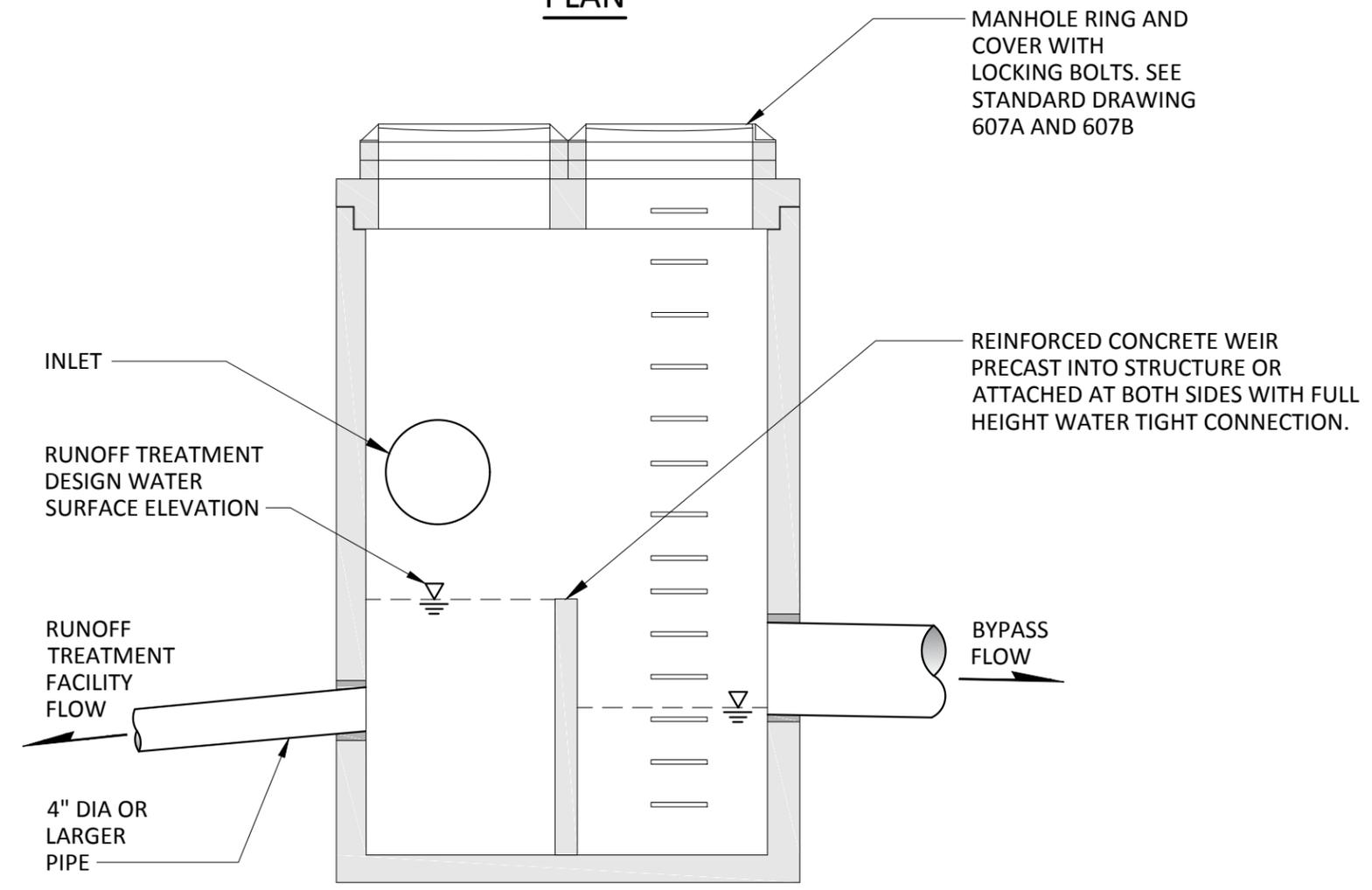
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		<p>CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT</p>		
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By ESH	Current Rev Date 12/30/2016
TITLE 8 INCH STORMWATER CLEAN-OUT				STANDARD DRAWING No. 421



PLAN



CONCRETE VAULT OR TYPE 2 CATCH BASIN
(SIZE DETERMINED BY CLEARANCE REQUIREMENTS,
- 60" CATCH BASIN MIN)

SECTION

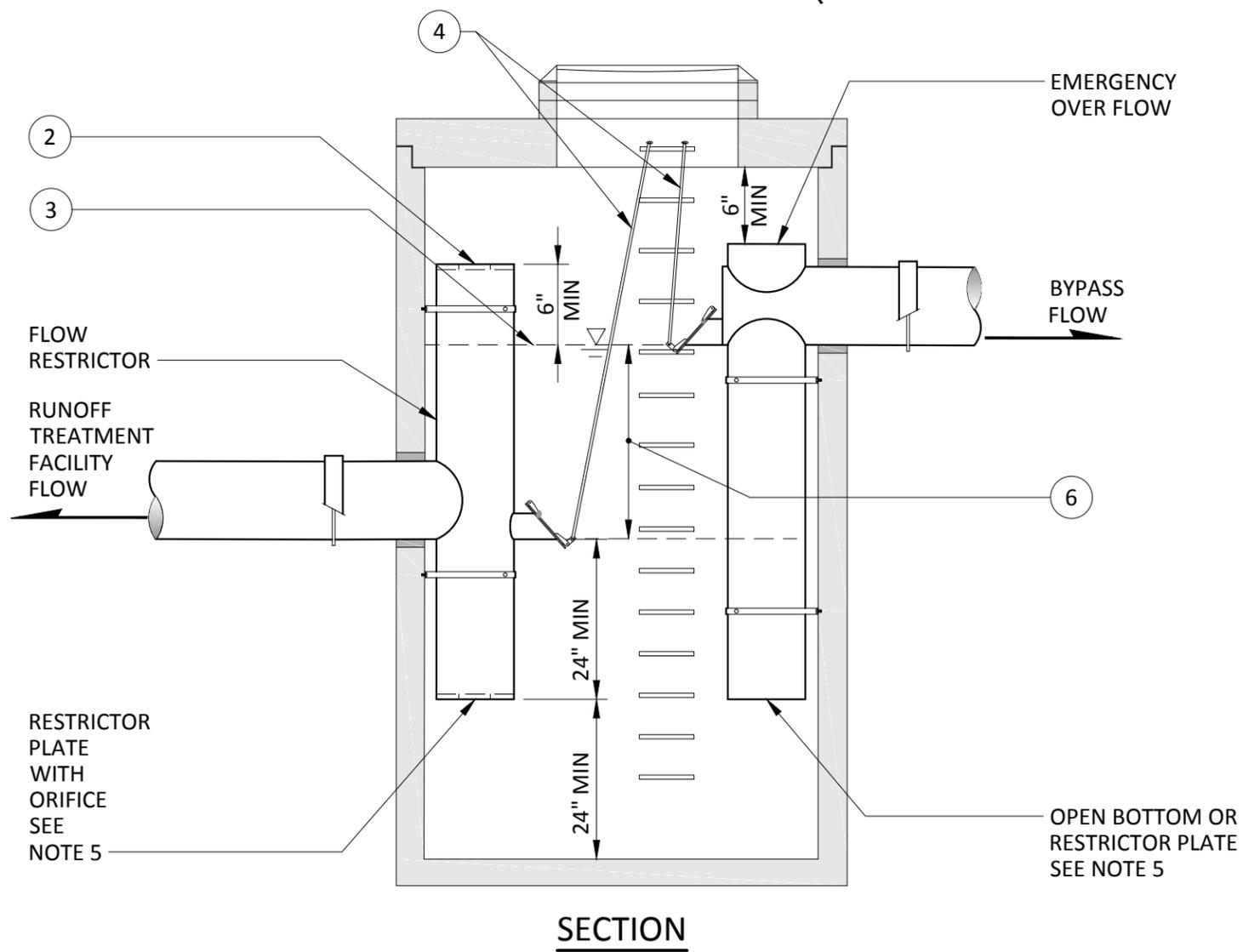
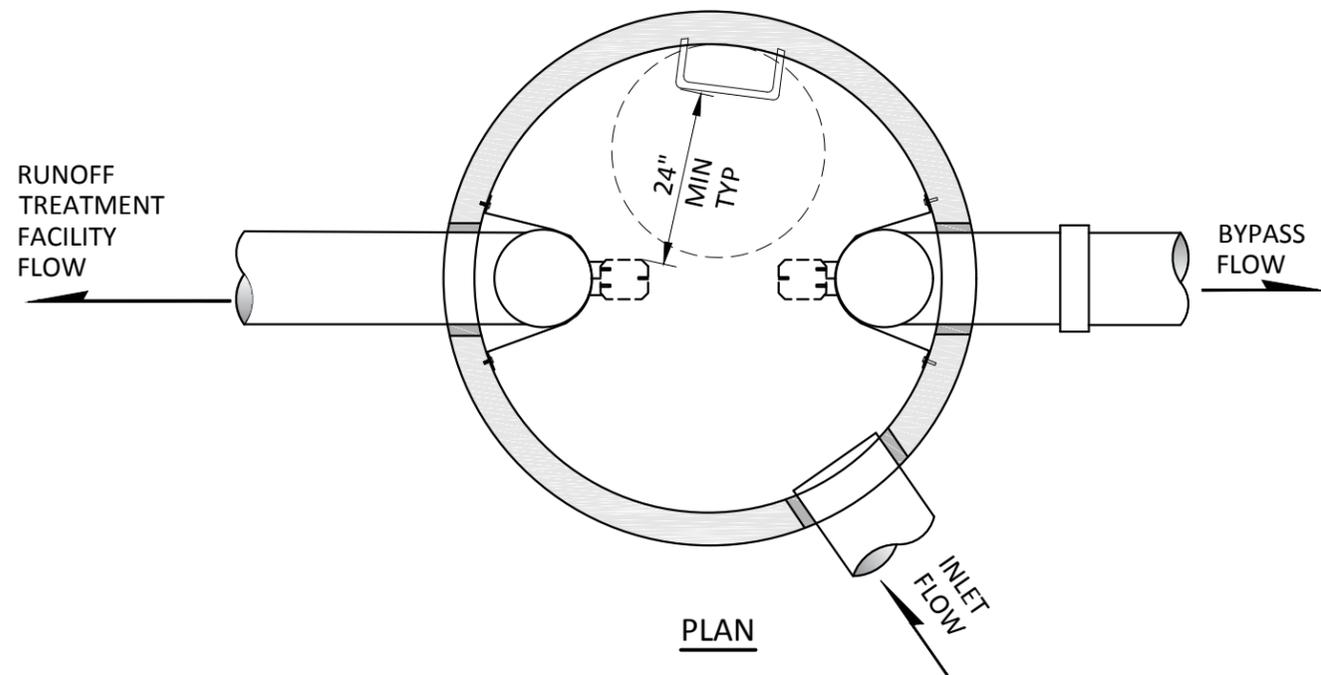
NOTES

1. WATER QUALITY OUTFLOW PIPE SIZED TO CONVEY THE WATER QUALITY FLOW RATE AT THE RUNOFF TREATMENT DESIGN WATER SURFACE ELEVATION.
2. THE RUNOFF TREATMENT DESIGN WATER SURFACE ELEVATION SHALL BE A MINIMUM OF 2x THE PIPE DIAMETER ABOVE THE PIPE INVERT. WEIR HEIGHT SHALL BE AT RUNOFF TREATMENT DESIGN WATER SURFACE ELEVATION.
3. INLET PIPE MAY BE AT OR BELOW THE RUNOFF TREATMENT DESIGN WATER SURFACE ELEVATION, BUT BACKWATER EFFECTS ON THE UPSTREAM SYSTEM MUST BE ACCOUNTED FOR.
4. WEIR SHALL HAVE #4 BAR AT 12" SPACING EACH WAY.
5. STEPS PER STANDARD DRAWING 606.

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 CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT				
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
TITLE BYPASS STRUCTURE TYPE A				STANDARD DRAWING No. 422

DRAFT



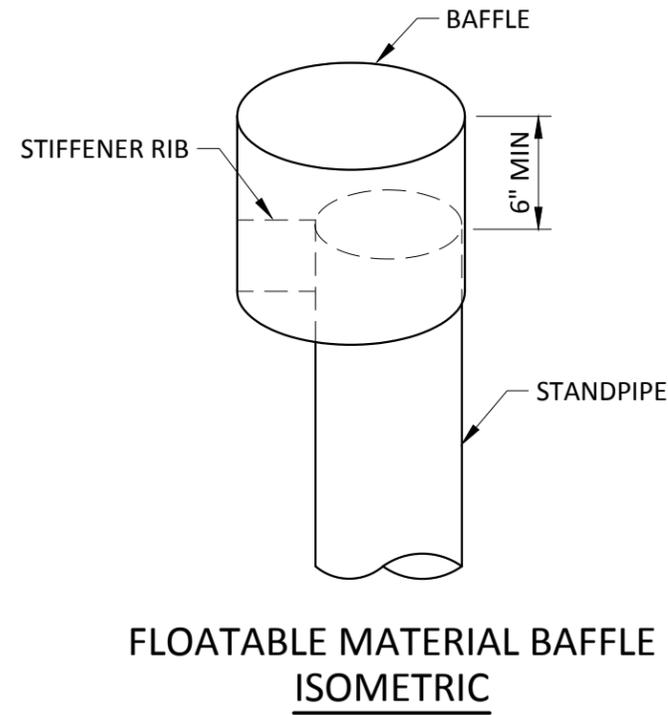
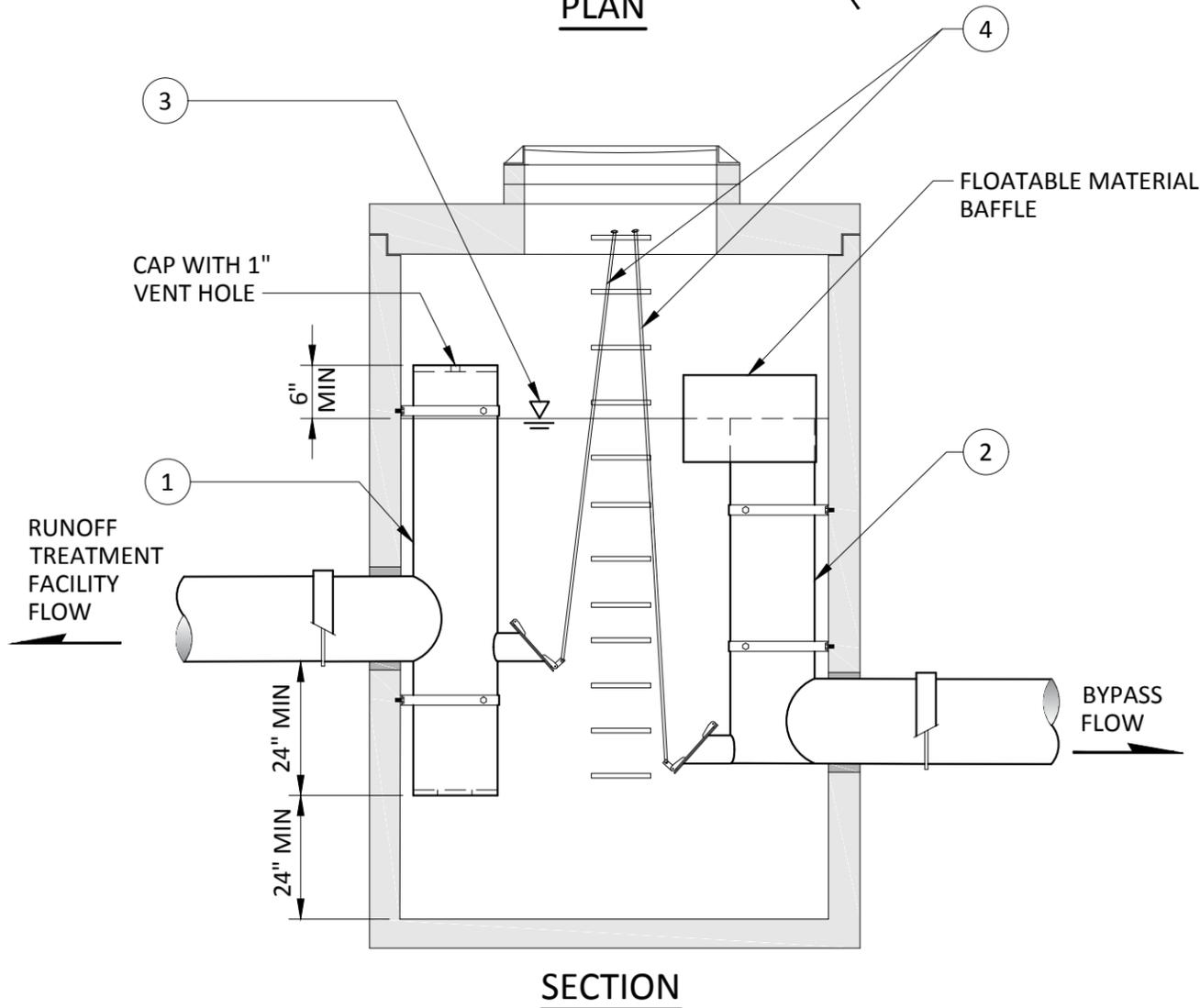
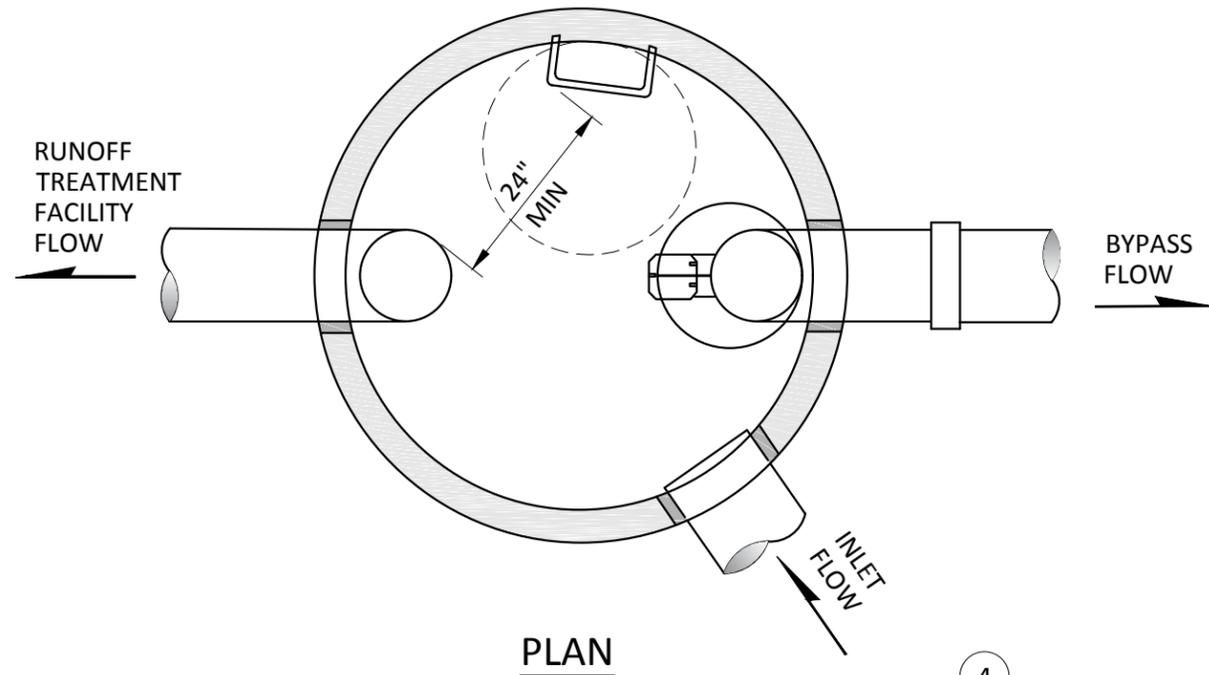
NOTES

1. FLOATABLE MATERIAL BAFFLE SEE STANDARD DRAWING 424, WITHOUT VENT HOLE.
2. CAP OR PLATE WITH 1" DIAMETER VENT HOLE (INSTALLATION SEE STANDARD DRAWING 413) FOR RESTRICTOR STANDPIPE WITHOUT SECONDARY OVERFLOW ORIFICE.
3. RUNOFF TREATMENT DESIGN STORM WATER SURFACE ELEVATION, PER PLANS.
4. FOR LIFT GATE ASSEMBLY AND ALUMINUM ROD LIFT HANDLE ASSEMBLY SEE STANDARD DRAWING 416.
5. WATER QUALITY OUTFLOW PIPE SIZED TO CONVEY THE WATER QUALITY FLOW RATE AT THE RUNOFF TREATMENT DESIGN WATER SURFACE ELEVATION. AN 8" DIAMETER MINIMUM ORIFICE PLATE MAY BE INSTALLED IN THE WATER QUALITY OUTFLOW PIPE TO FURTHER REDUCE DISCHARGE RATES.
6. THE RUNOFF TREATMENT DESIGN WATER SURFACE ELEVATION SHALL BE A MINIMUM OF 2X THE PIPE DIAMETER ABOVE THE PIPE INVERT.
7. INLET PIPE MAY BE AT OR BELOW THE RUNOFF TREATMENT DESIGN WATER SURFACE ELEVATION, BUT BACKWATER EFFECTS ON THE UPSTREAM SYSTEM MUST BE ACCOUNTED FOR.
8. FOR TYPICAL RESTRICTOR ASSEMBLY AND LIFT GATE ASSEMBLY SEE STANDARD DRAWINGS 415 AND 416.
9. STEPS PER STANDARD DRAWING 606.

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		CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT	
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB
TITLE BYPASS STRUCTURE TYPE B			Current Rev Date 12/30/2016 STANDARD DRAWING No. 423

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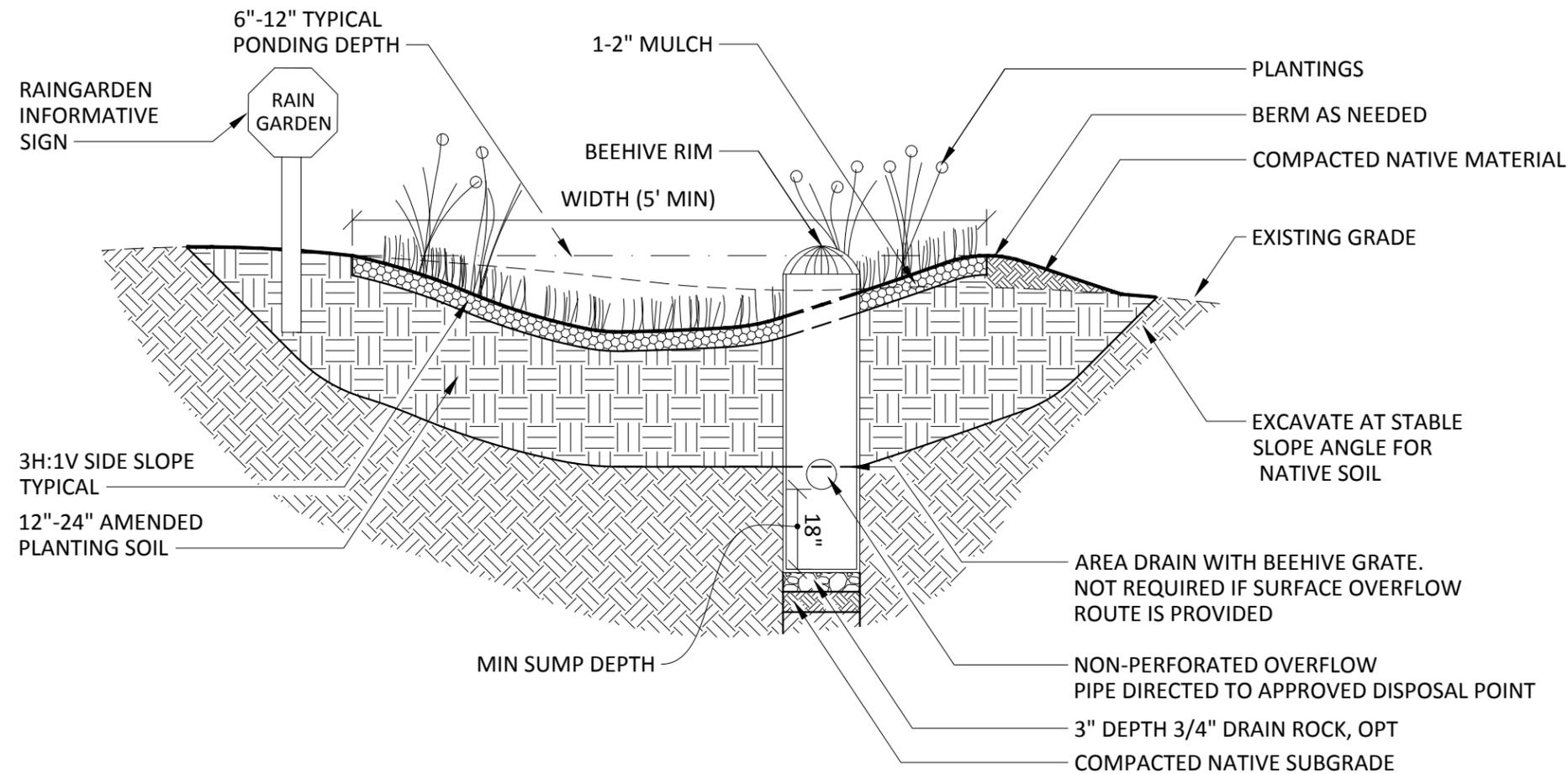
NOTES

1. CAP OR PLATE WITH 1" DIAMETER VENT HOLE (INSTALL SEE STANDARD DRAWING 413) FOR RESTRICTOR STANDPIPE WITHOUT SECONDARY OVERFLOW ORIFICE.
2. RESTRICTOR STANDPIPE WITHOUT ANY PRIMARY OR SECONDARY ORIFICES AND WITH FLOATABLE MATERIAL BAFFLE. INSTALLATION SEE STANDARD DRAWING 415.
3. RUNOFF TREATMENT DESIGN STORM WATER SURFACE ELEVATION, PER PLANS.
4. FOR LIFT GATE ASSEMBLY AND ALUMINUM ROD LIFT HANDLE ASSEMBLY SEE STANDARD DRAWING 416.
5. WATER QUALITY OUTFLOW PIPE SIZED TO CONVEY THE WATER QUALITY FLOW RATE AT THE RUNOFF TREATMENT DESIGN WATER SURFACE ELEVATION.
6. THE RUNOFF TREATMENT DESIGN WATER SURFACE ELEVATION SHALL BE A MINIMUM OF 2X THE PIPE DIAMETER ABOVE THE PIPE INVERT.
7. INLET PIPE MAY BE AT OR BELOW THE RUNOFF TREATMENT DESIGN WATER SURFACE ELEVATION, BUT BACKWATER EFFECTS ON THE UPSTREAM SYSTEM MUST BE ACCOUNTED FOR.
8. STEPS PER STANDARD DRAWING 606.

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City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By WRB	Current Rev Date 12/30/2016
BYPASS STRUCTURE TYPE C				STANDARD DRAWING No. 424



INFILTRATION RAIN GARDEN

NOTES

DESIGN:

1. SEE THE RAIN GARDEN HANDBOOK FOR WESTERN WASHINGTON FOR DESIGN AND PLANTING INSTRUCTIONS. NATIVE PLANTS ARE PREFERRED, BECAUSE NON-NATIVE AND INVASIVE SPECIES CAN MOVE DOWNSTREAM AND DAMAGE HABITAT. IF NON-NATIVES ARE CHOSEN, BE SURE THAT THEY WILL NOT DAMAGE DOWNSTREAM HABITAT.
2. RAIN GARDENS MAY BE USED TO MEET STORMWATER MINIMUM REQUIREMENT #5 FOR SITES WHICH ADD OR REPLACE LESS THAN 5000 SF OF NEW OR REPLACED HARD SURFACE.
3. PROVIDE RAIN GARDEN INFORMATIVE SIGNS FOR RAIN GARDEN ASSOCIATED WITH NEW CONSTRUCTION. SIGNS ARE AVAILABLE FROM PERMIT SERVICES.
4. MAINTENANCE AGREEMENTS ARE REQUIRED FOR RAIN GARDEN INSTALLATION USED TO MEET STORMWATER MINIMUM REQUIREMENTS.

CONSTRUCTION:

1. BUILD AND VEGETATE RAIN GARDEN AS EARLY AS POSSIBLE TO ESTABLISH PLANTINGS BEFORE DIRECTING STORMWATER RUNOFF TO IT.
2. INFILTRATION AREAS (THE AREA OF THE RAIN GARDEN AS DEFINED BY THE TOP ELEVATION OF THE FACILITY) SHALL BE FENCED OFF FROM THE FIRST DAY OF EARTH MOVING UNTIL PROJECT COMPLETION TO PREVENT COMPACTION OF THE SUBGRADE, DIRT TRACKING ONTO ANY LAYER OF THE FACILITY AND STOCKPILING OF CONSTRUCTION MATERIALS THAT MAY CLOG THE SURFACE.
3. DURING EXCAVATION OF NATIVE SOILS TO THE BOTTOM OF THE FACILITY, RAINFALL MAY CAUSE FINES TO CLOG THE SURFACE OF THE FACILITY. IF THE NATIVE SOIL HAS BEEN EXPOSED TO RAINFALL, HAND RAKE THE SURFACE TO A DEPTH OF 3" TO RESTORE INFILTRATION CAPACITY.
4. DURING AREA DRAIN INSTALLATION, DISTURB NATIVE SOILS AS LITTLE AS POSSIBLE.

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DRAFT

		<p>CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT</p>	
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By ESH
<p>TITLE RAIN GARDEN WITH OVERFLOW</p>			<p>Current Rev Date 12/30/2016 STANDARD DRAWING No. 426</p>

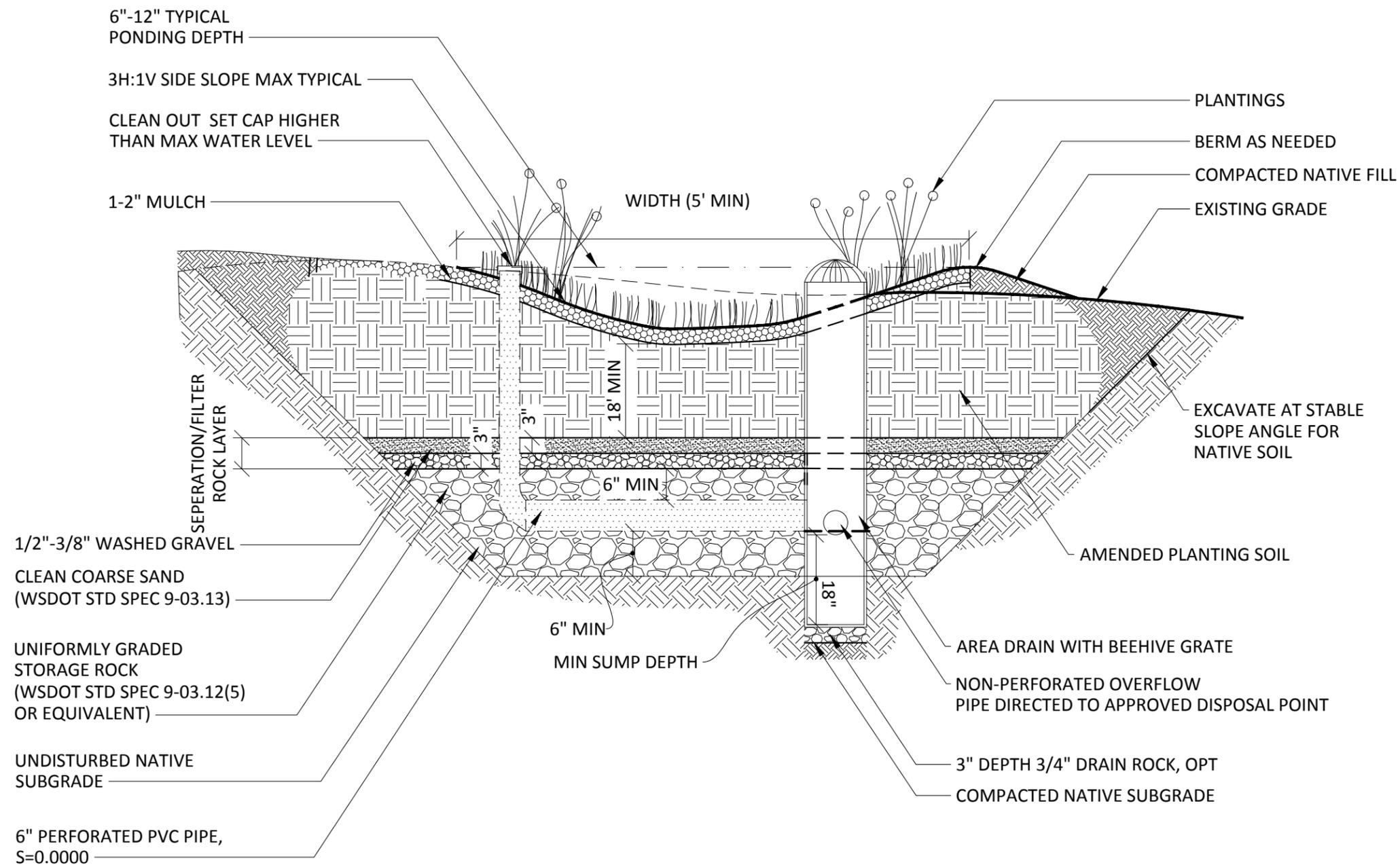
NOTES

DESIGN:

- SEE THE RAIN GARDEN HANDBOOK FOR WESTERN WASHINGTON FOR DESIGN AND PLANTING INSTRUCTIONS. NATIVE PLANTS ARE PREFERRED, BECAUSE NON-NATIVE AND INVASIVE SPECIES CAN MOVE DOWNSTREAM AND DAMAGE HABITAT. IF NON-NATIVES ARE CHOSEN, BE SURE THAT THEY WILL NOT DAMAGE DOWNSTREAM HABITAT.
- RAIN GARDENS MAY BE USED TO MEET STORMWATER MINIMUM REQUIREMENT #5 FOR SITES WHICH ADD OR REPLACE LESS THAN 5000 SF OF NEW OR REPLACED HARD SURFACE.
- PROVIDE RAIN GARDEN INFORMATIVE SIGNS FOR RAIN GARDEN ASSOCIATED WITH NEW CONSTRUCTION. SIGNS ARE AVAILABLE FROM PERMIT SERVICES.
- MAINTENANCE AGREEMENTS ARE REQUIRED FOR RAIN GARDEN INSTALLATION USED TO MEET STORMWATER MINIMUM REQUIREMENTS.

CONSTRUCTION:

- BUILD AND VEGETATE RAIN GARDEN AS EARLY AS POSSIBLE TO ESTABLISH PLANTINGS BEFORE DIRECTING STORMWATER RUNOFF TO IT.
- INFILTRATION AREAS (THE AREA OF THE RAIN GARDEN AS DEFINED BY THE TOP ELEVATION OF THE FACILITY) SHALL BE FENCED OFF FROM THE FIRST DAY OF EARTH MOVING UNTIL PROJECT COMPLETION TO PREVENT COMPACTION OF THE SUBGRADE, DIRT TRACKING ONTO ANY LAYER OF THE FACILITY AND STOCKPILING OF CONSTRUCTION MATERIALS THAT MAY CLOG THE SURFACE.
- DURING EXCAVATION OF NATIVE SOILS TO THE BOTTOM OF THE FACILITY, RAINFALL MAY CAUSE FINES TO CLOG THE SURFACE OF THE FACILITY. IF THE NATIVE SOIL HAS BEEN EXPOSED TO RAINFALL, HAND RAKE THE SURFACE TO A DEPTH OF 3" TO RESTORE INFILTRATION CAPACITY.
- DURING AREA DRAIN INSTALLATION, DISTURB NATIVE SOILS AS LITTLE AS POSSIBLE.



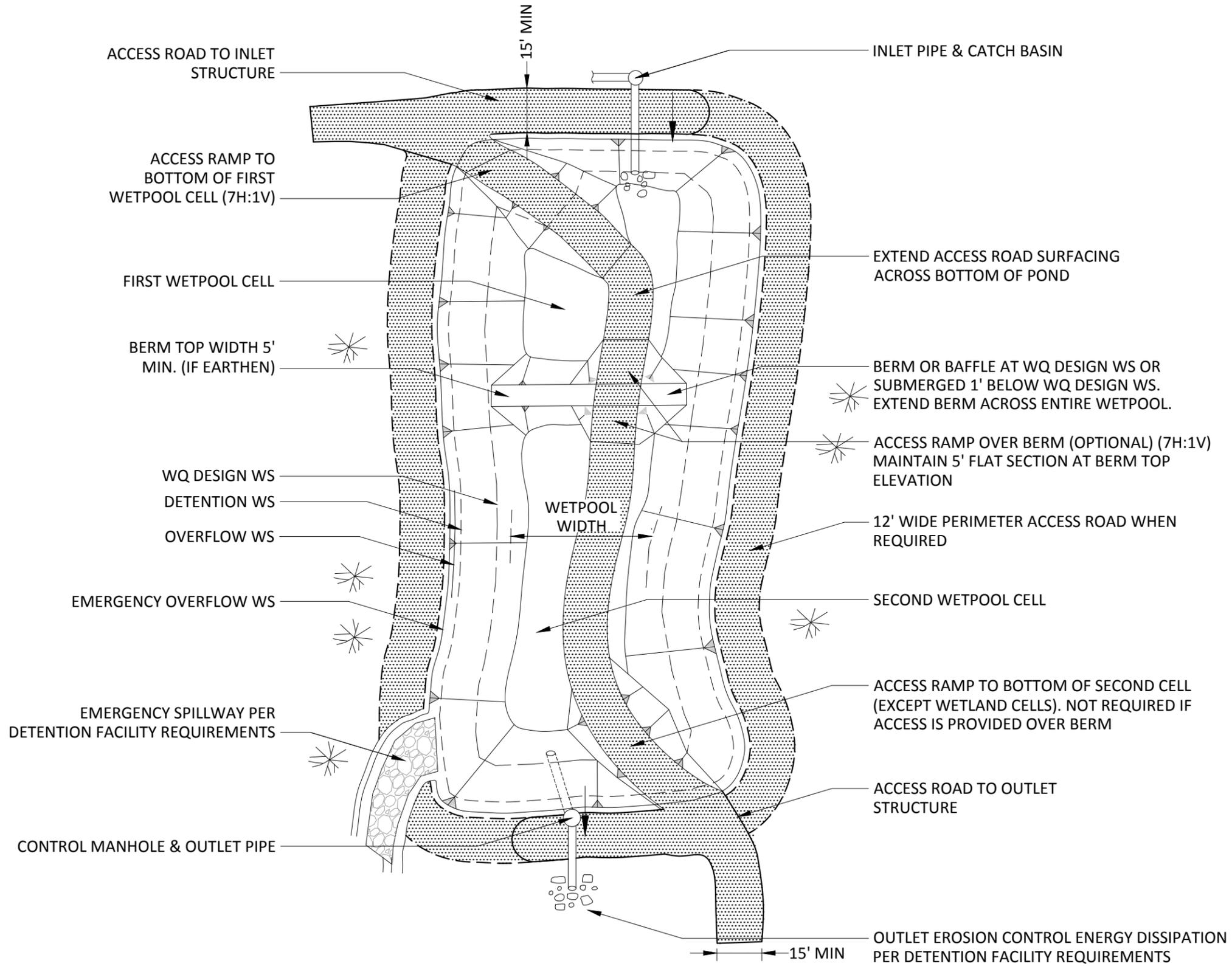
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DRAFT

		CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT	
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By ESH
TITLE			Current Rev Date 12/30/2016
RAIN GARDEN WITH UNDERDRAIN			STANDARD DRAWING No. 427

NOTES

1. FOR ALL PONDS WITHOUT AN INTERNAL BERM ONLY A SINGLE ACCESS RAMP IS REQUIRED. EXTEND ACCESS ROAD MATERIAL ALONG THE ENTIRE LENGTH OF THE POND BOTTOM.
2. SEE TEXT FOR ROAD SURFACING MATERIAL REQUIREMENTS.
3. REFER TO THE CITY OF EVERETT STORMWATER MANAGEMENT MANUAL FOR ADDITIONAL DESIGN REQUIREMENTS.



PLAN VIEW

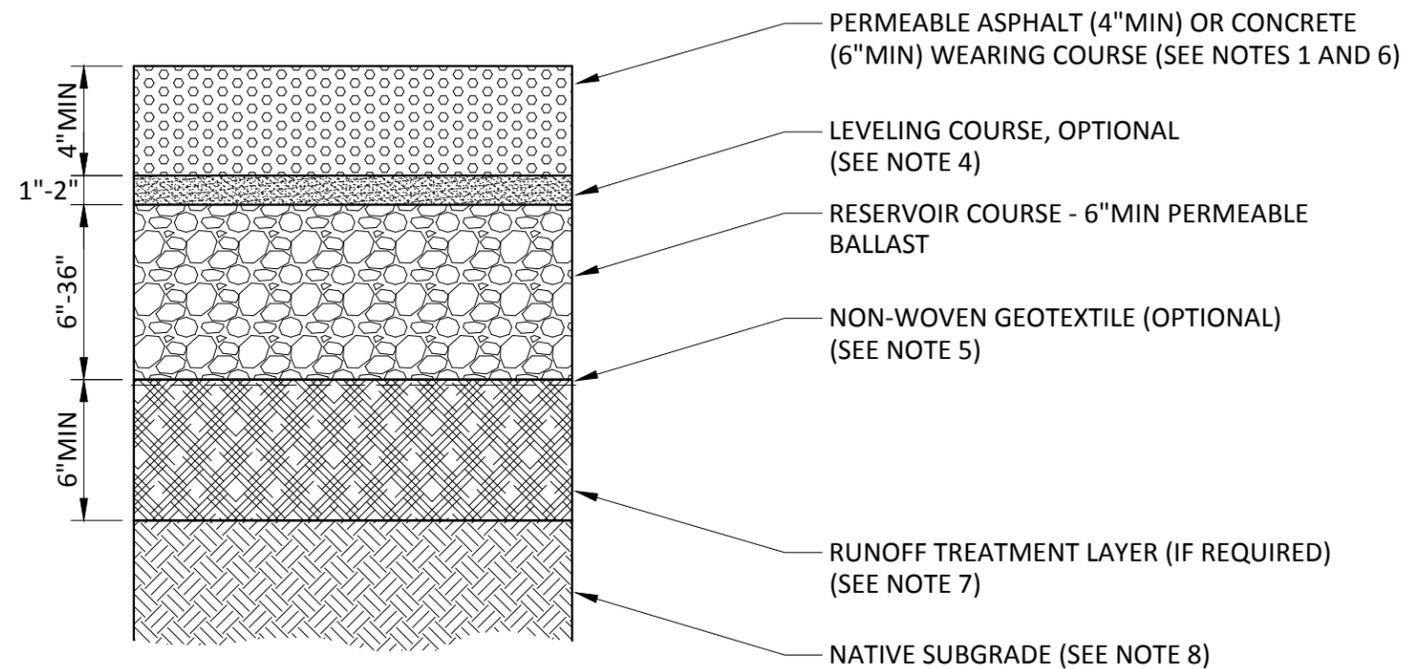
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		CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT	
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By ESH
TITLE			Current Rev Date 12/19/2016
TYPICAL DETENTION AND/OR WETPOND			STANDARD DRAWING No. 429

NOTES

- PERMEABLE PAVEMENT WITHIN CITY RIGHT-OF-WAY REQUIRES APPROVAL BY THE CITY ENGINEER WHEN PLACED BENEATH A TRAVELED WAY. THESE GUIDELINES PROVIDE A MINIMUM DEPTH FOR THE HYDROLOGIC PERFORMANCE OF THE PERMEABLE PAVEMENT. THE STRUCTURAL CAPACITY OF PAVEMENT SECTIONS WHEN SUBJECT TO VEHICULAR LOADS DEPENDS ON SEVERAL FACTORS AND MUST BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER.
- LONGITUDINAL SLOPE, 0 TO 5% MAX. FOR PERMEABLE ASPHALT, 8% MAX. FOR PERMEABLE CONCRETE.
- USE CHECK DAM OR OTHER METHODS TO MAXIMIZE PONDING IN THE SUBSURFACE FOR LONGITUDINAL SLOPES EXCEEDING 2%. SEE STANDARD DRAWING 431.
- LEVELING COURSE MATERIALS: 1.5" TO U.S. NO. 8 UNIFORMLY GRADED, CRUSHED (ANGULAR), THOROUGHLY WASHED STONE.
- GEOTEXTILE SHALL BE PROVIDED BETWEEN RUNOFF TREATMENT LAYER OR NATIVE SOIL AND PERMEABLE BALLAST WHEN RECOMMENDED BY GEOTECHNICAL PROFESSIONAL OR PAVEMENT DESIGNER. GEOTEXTILE SHALL BE PROVIDED WHEN FINES IN NATIVE SUBGRADE EXCEED 7% ON THE #200 SIEVE. GEOTEXTILE SHALL BE PLACED BETWEEN PERMEABLE BALLAST AND TREATMENT LAYER IF A TREATMENT LAYER IS USED. GEOTEXTILE SHALL BE GEOTEXTILE FOR SEPARATION PER WSDOT/APWA STANDARD SPECIFICATION 9-33.2, NON WOVEN, TABLE 3.
- PERMEABLE CONCRETE MUST BE INSTALLED BY A CERTIFIED PERMEABLE CONCRETE INSTALLER. PERMEABLE ASPHALT MUST BE INSTALLED BY AN EXPERIENCED PERMEABLE ASPHALT INSTALLER.
- RUNOFF TREATMENT LAYER SHALL BE REQUIRED FOR PAVEMENT WHICH IS SUBJECT TO VEHICULAR TRAFFIC OR OTHER POLLUTANTS WHERE NATIVE SOILS DO NOT MEET THE REQUIREMENTS FOR TREATMENT. SEE THE STORMWATER MANAGEMENT MANUAL.
- SUBGRADE SHALL BE COMPACTED TO A FIRM AND UN YIELDING CONDITION IN ACCORDANCE WITH THE PROJECT PAVEMENT DESIGN. DO NOT OVER COMPACT SUBGRADE. HEAVY TRUCK AND CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED FROM DRIVING ON THE SUBGRADE THROUGH OUT CONSTRUCTION.

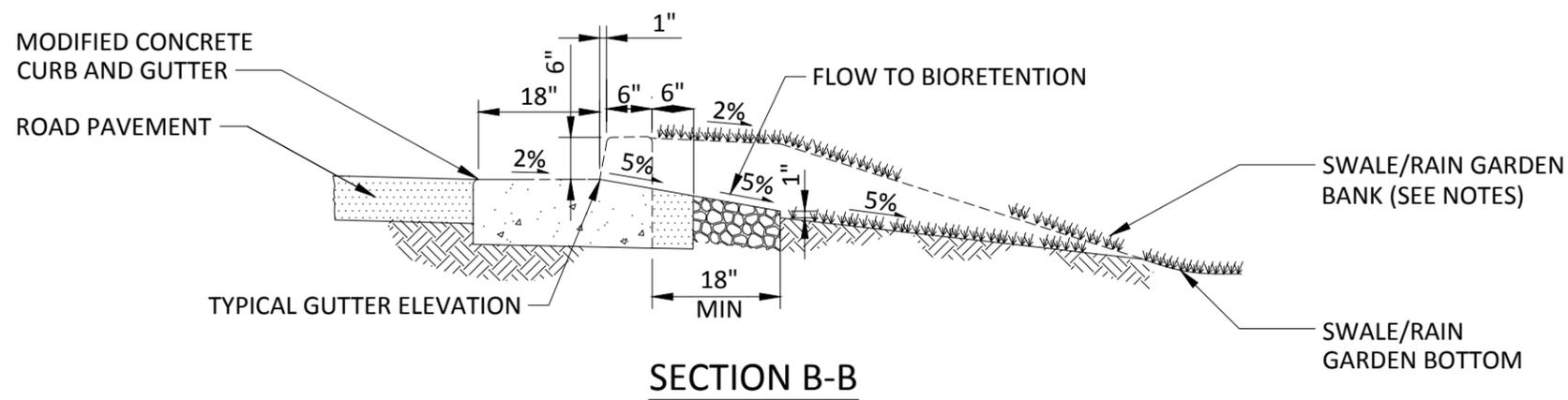
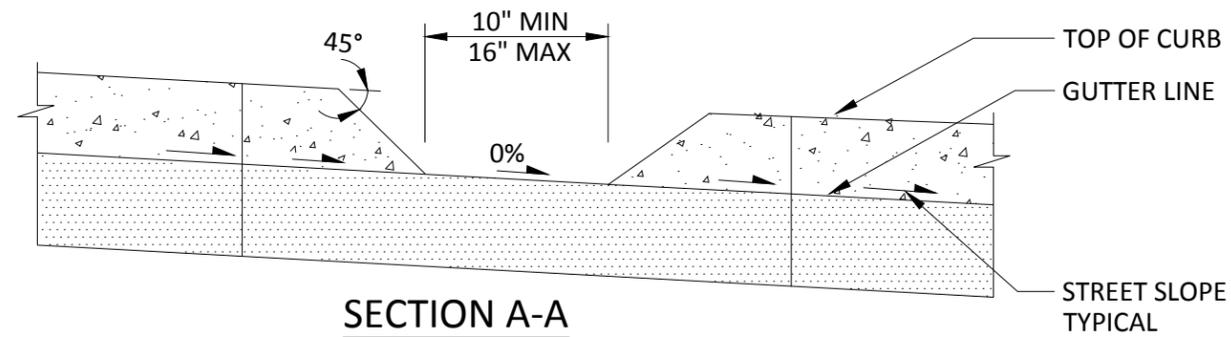
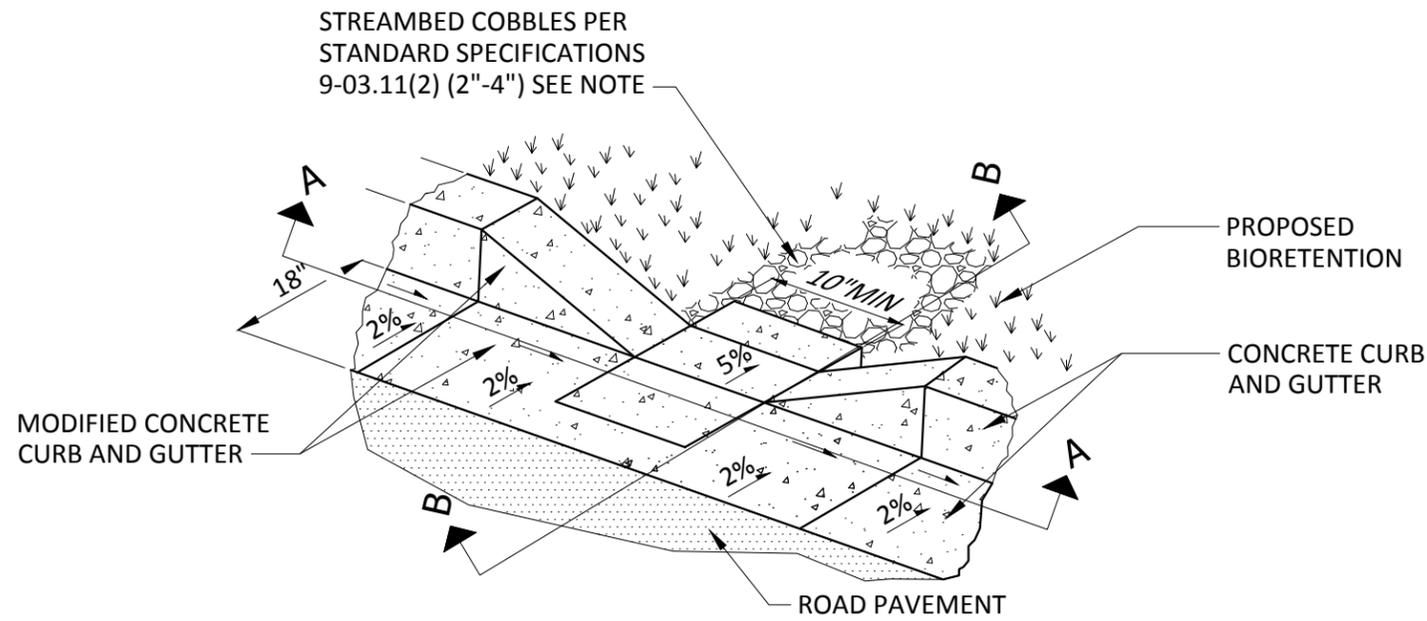


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		CITY OF EVERETT EVERETT PUBLIC WORKS DEPARTMENT	
City Engineer RYAN SASS	Section Manager HEATHER GRIFFIN	CAD Manager PAUL WILHELM	Drawn By ESH
TITLE PERMEABLE ASPHALT OR CONCRETE PAVEMENT SECTION			Current Rev Date 12/30/2016 STANDARD DRAWING No. 430

NOTES

1. MODIFY INLET TO BIORETENTION PLANTER AS NEEDED TO PREVENT EROSION. THE STREAMBED COBBLES ARE OPTIONAL UNLESS REQUIRED BY THE UTILITY REVIEWER OR THE ENGINEER.



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		<p>CITY OF EVERETT PUBLIC WORKS DEPARTMENT</p>		
<p>City Engineer RYAN SASS</p>	<p>Section Manager HEATHER GRIFFIN</p>	<p>CAD Manager PAUL WILHELM</p>	<p>Drawn By ESH</p>	<p>Current Rev Date 12/30/2016</p>
<p>TITLE</p> <p>CURB CUT OPENING FOR BIORETENTION</p>				<p>STANDARD DRAWING No. 432</p>