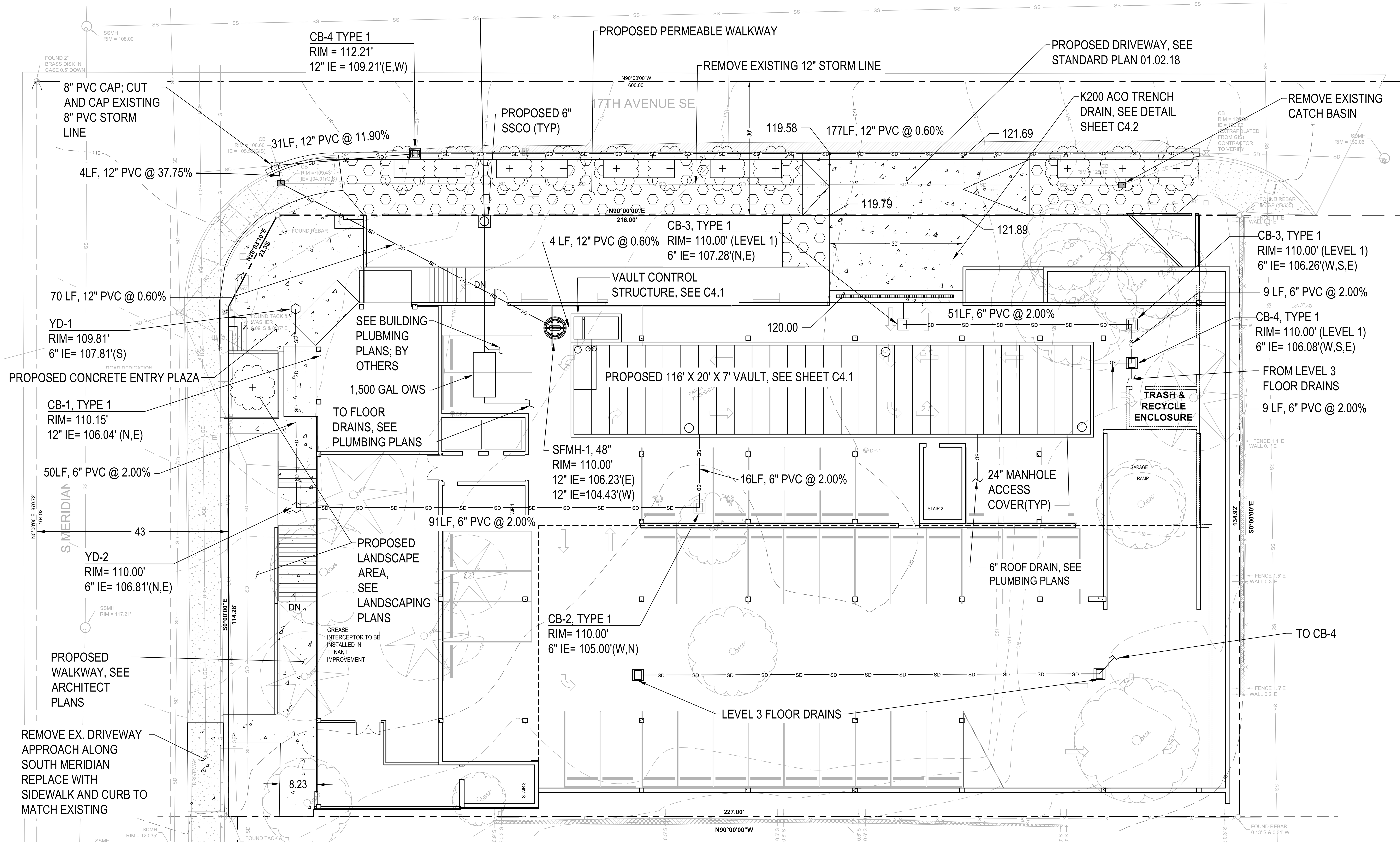
NW 1/4 OF THE SW 1/4 OF SEC. 34, TWP 20N, RNG 4E, W.M.

1617 S. MERIDIAN



PROPOSED LEGEND

(asphalt pattern)	ASPHALT PAVEMENT
(concrete pattern)	CONCRETE PAVEMENT
(permeable pattern)	PERMEABLE CONCRETE
— — — —	PROPERTY BOUNDARY
—FM—	FORCE MAIN
—SD—	STORM DRAIN LINE
☐	CATCH BASIN
⊕	PROPOSED TREE

DRAWING INDEX	
C4.0	STORMWATER PLAN
C4.1	STORMWATER DETENTION AND CONTROL VAULT DETAILS
C4.2	STORMWATER DETAILS
SD1.0	ENTERING SIGHT DISTANCES PLAN

TOPOGRAPHY, BOUNDARY, AND UTILITIES STATEMENT:
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N

10 5 0 10 20
SCALE: 1 INCH = 10 FEET

IHB ARCHITECTS

1617 S MERIDIAN
PUYALLUP, WA 98371

XXXX–XXXXXXX

XXX ____–____

Key Plan

Registration

DEAN A. FURR, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER 46937
2/10/2025

FURR ENGINEERING SERVICES
4715 142nd Pl. SW #B, Edmonds, WA 98026
ph 206.890.8291

Sheet Title

STORMWATER PLAN

Revisions

1	6/11/24	PER CITY COMMENTS
2	11/15/24	PER CITY COMMENTS
3	2/10/25	PER CITY COMMENTS

Scale:	
FES Project No:	23062
Date:	OCTOBER 20, 2023
Designed:	JV
Drawn:	TJW
Checked:	DAF

Sheet Number

C4.0

NW 1/4 OF THE SW 1/4 OF SEC. 34, TWP 20N, RNG 4E, W.M.

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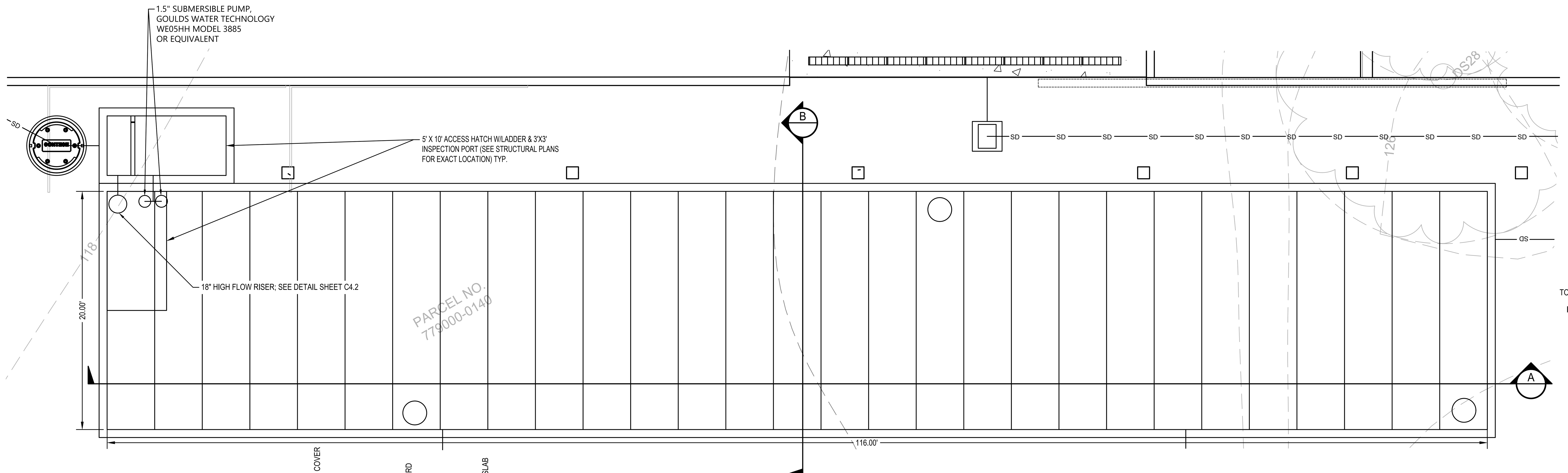

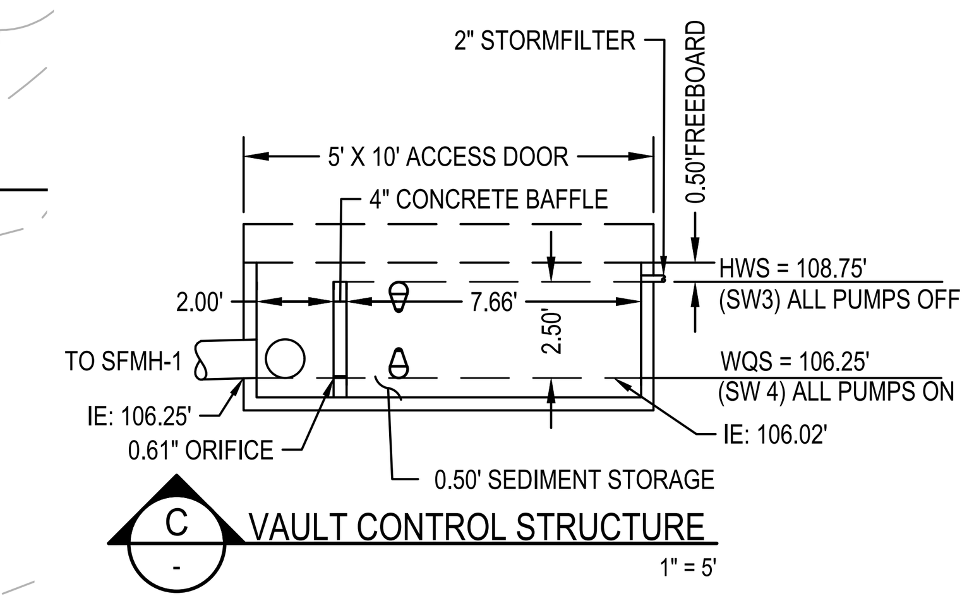

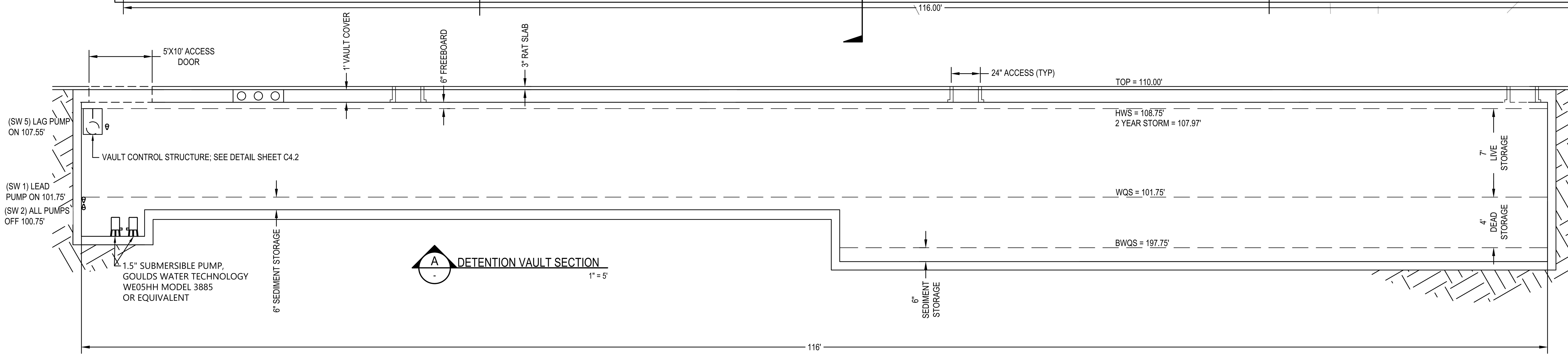

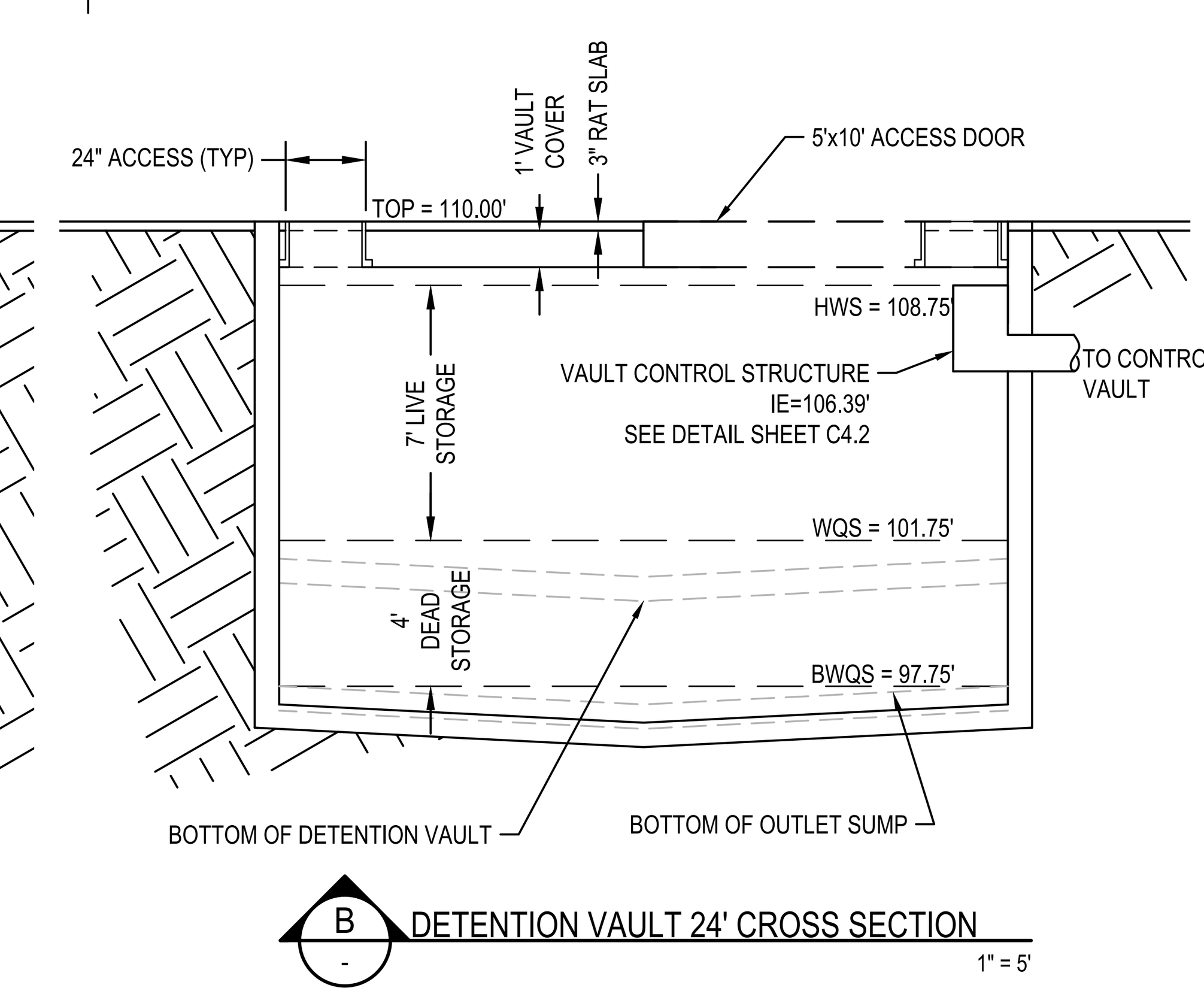

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Sheet Title

STORMWATER DETENTION AND CONTROL VAULTS

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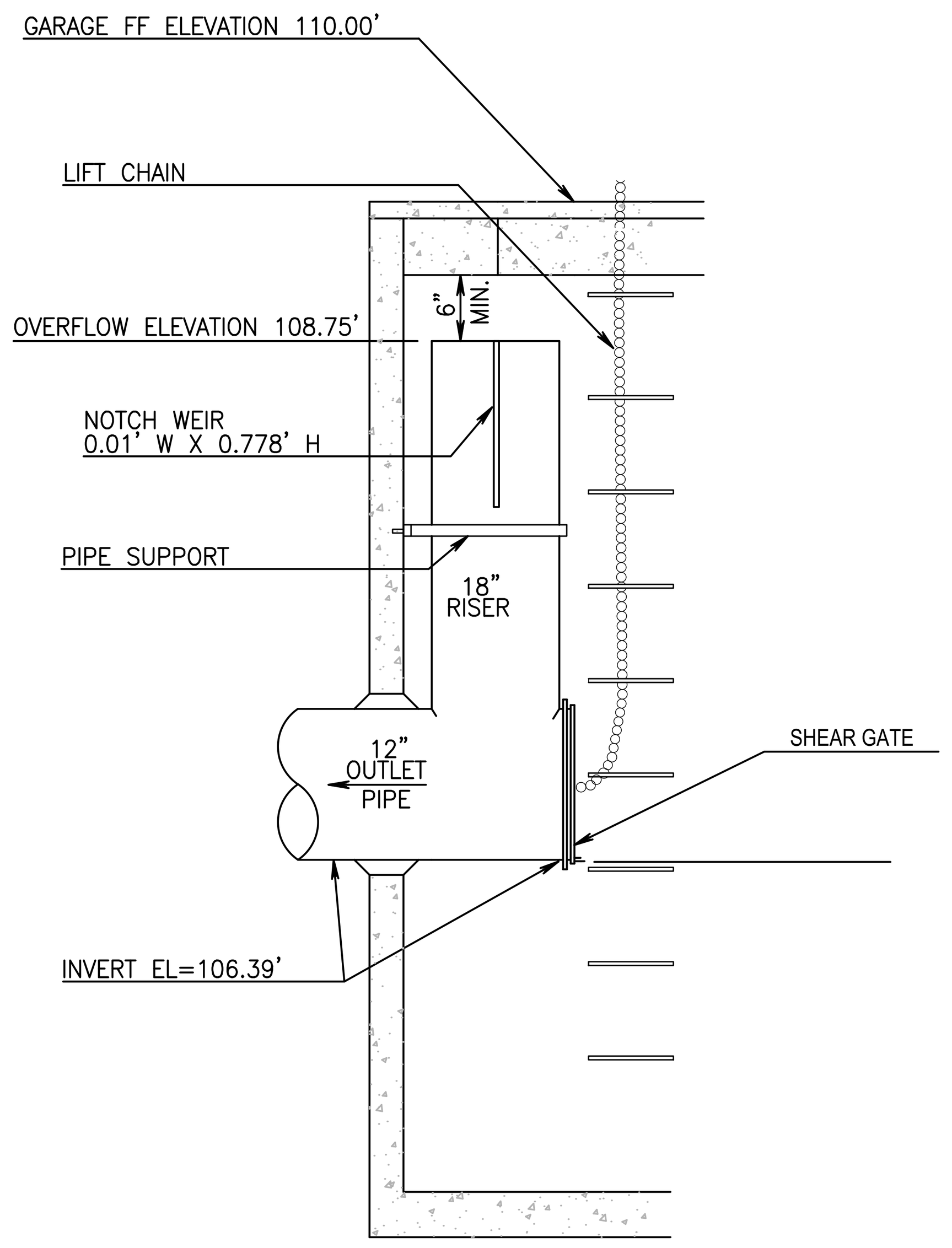
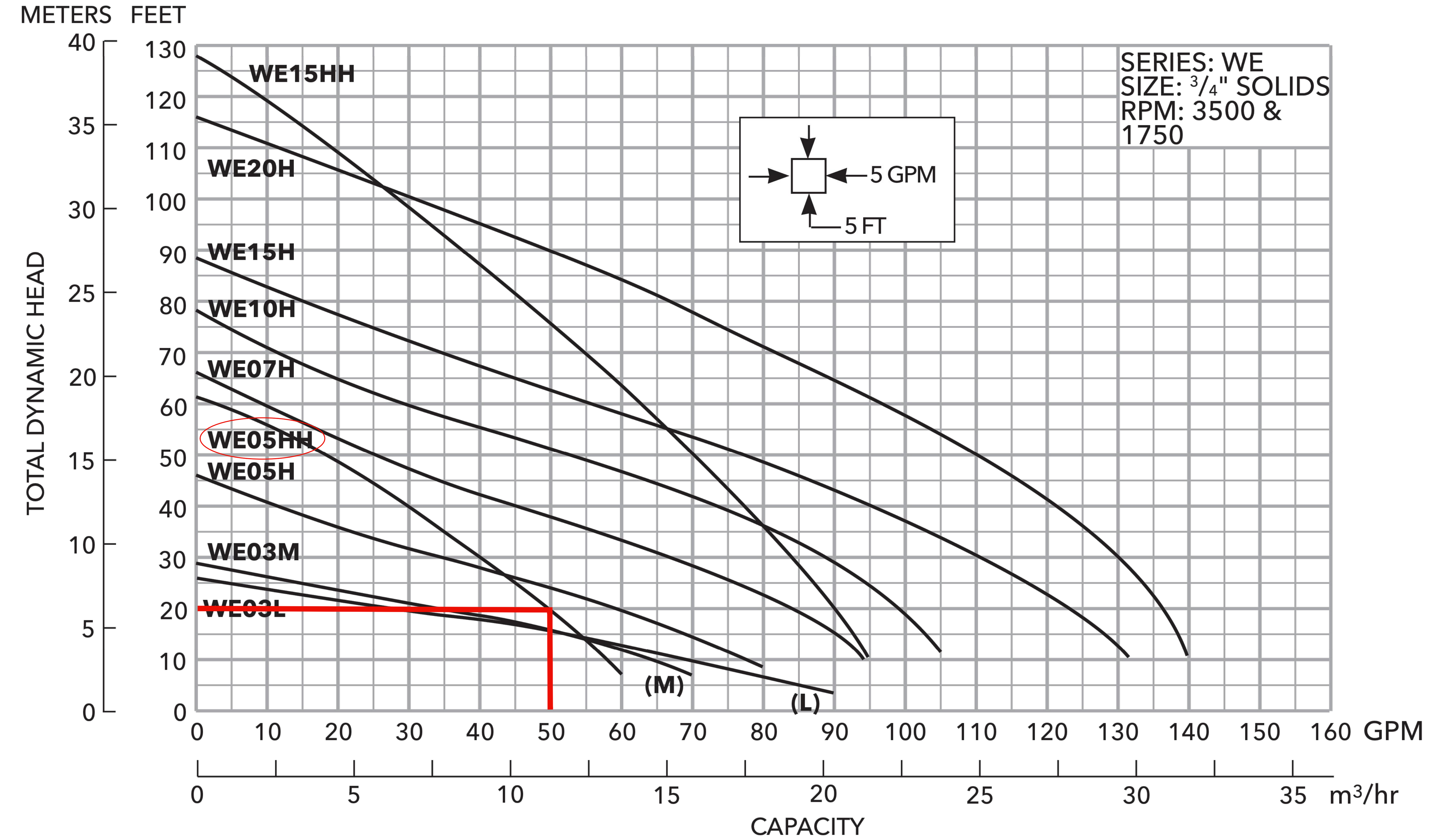


VAULT 1 CONTROL STRUCTURE
NO SCALE

NOTES:
1) PIPE SIZES & SLOPES, SEE PLANS.
2) OUTLET CAPACITY NOT LESS THAN COMBINED INLETS
3) METAL PARTS:
   A) CORROSION RESISTANT OR GALVANIZED OR ALUMINIZED TYPE II,
   B) IF GALVANIZED STEEL PIPE, HAVE ASPHALT TREATMENT I.
4) FRAME & LADDER OR STEPS OFFSET SO:
   A) CLEANOUT GATE IS VISIBLE FROM TOP.
   B) CLIMBDOWN SPACE IS CLEAR OF RISER & CLEANOUT GATE.
   C) FRAME IS CLEAR OF CURB.



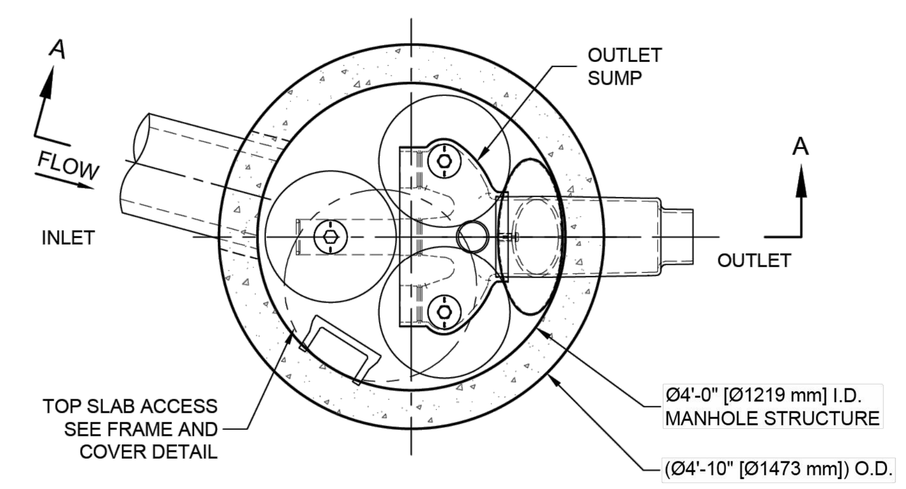
STORMFILTER DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (3). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 3 CARTRIDGES. Ø4 [1219 mm] MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.0 CFS [28.3 L/s] . IF THE SITE CONDITIONS EXCEED 1.0 CFS [28.3 L/s] AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

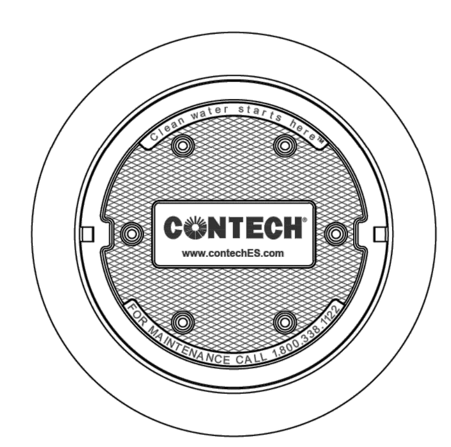
CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27" [686 mm]			18" [458 mm]			LOW DROP		
RECOMMENDED HYDRAULIC DROP (H)	3.05' [930 mm]			2.3' [700 mm]			1.8' [550 mm]		
SPECIFIC FLOW RATE (gpm/sf) [L/s/m²]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]
CARTRIDGE FLOW RATE (gpm) [L/s]	22.5 [1.42]	18.79 [1.19]	11.25 [0.71]	15 [0.95]	12.53 [0.79]	7.5 [0.44]	10 [0.63]	8.35 [0.54]	5 [0.32]

* 1.67 gpm/sf [1.08 L/s/m²] SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY



PLAN VIEW
STANDARD OUTLET RISER
FLOWKIT: 40A



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

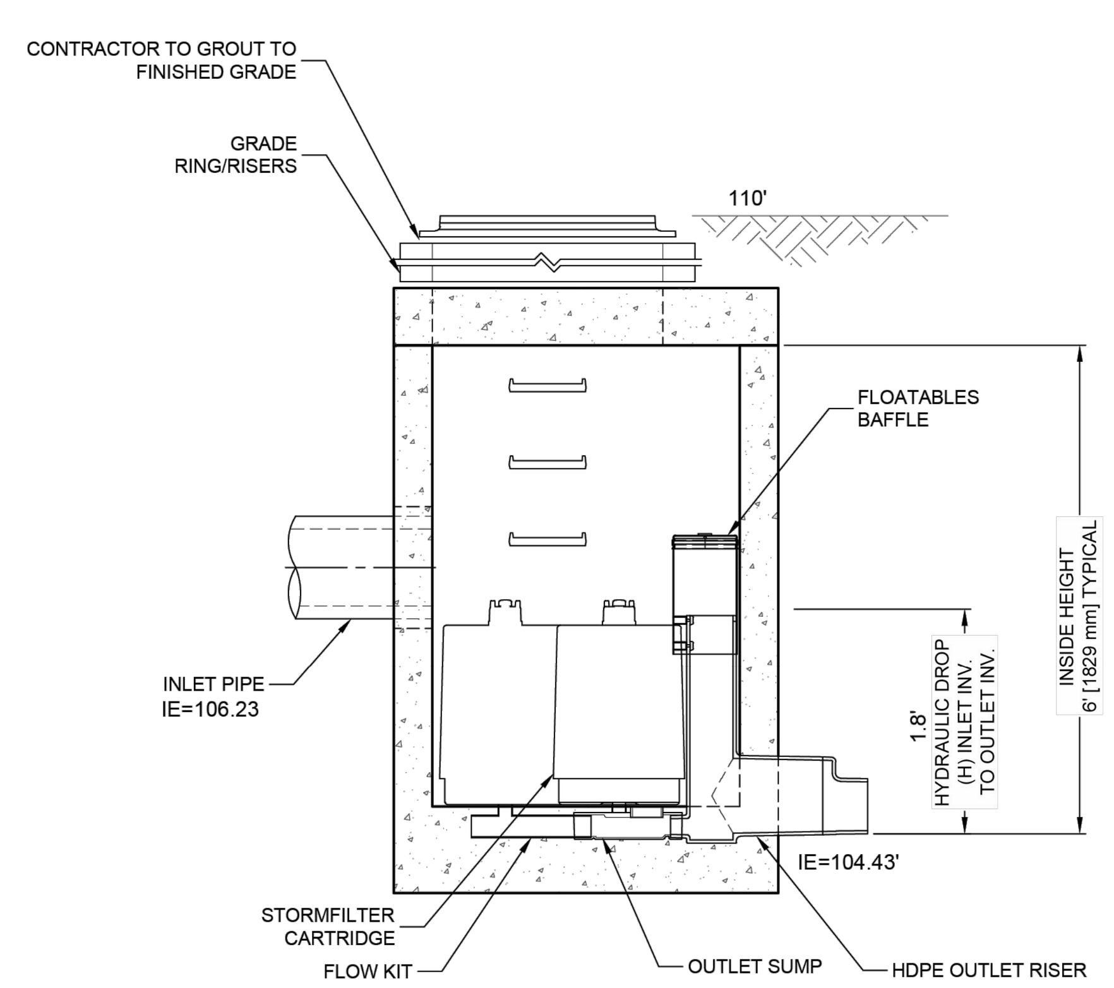
STRUCTURE ID	SFMH-1
WATER QUALITY FLOW RATE (cfs) [L/s]	0.0356
PEAK FLOW RATE (cfs) [L/s]	0.016
RETURN PERIOD OF PEAK FLOW (yrs)	100
CARTRIDGE HEIGHT (SEE TABLE ABOVE)	LD
NUMBER OF CARTRIDGES REQUIRED	1
CARTRIDGE FLOW RATE	8.53
MEDIA TYPE (PERLITE, ZPG, PSORB)	PSORB

PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	106.23'	PVC	12"
INLET PIPE #2			
OUTLET PIPE	104.43'	PVC	12"

RIM ELEVATION	110'

ANTI-FLOTATION BALLAST	WIDTH	HEIGHT

NOTES/SPECIAL REQUIREMENTS:



SECTION A-A

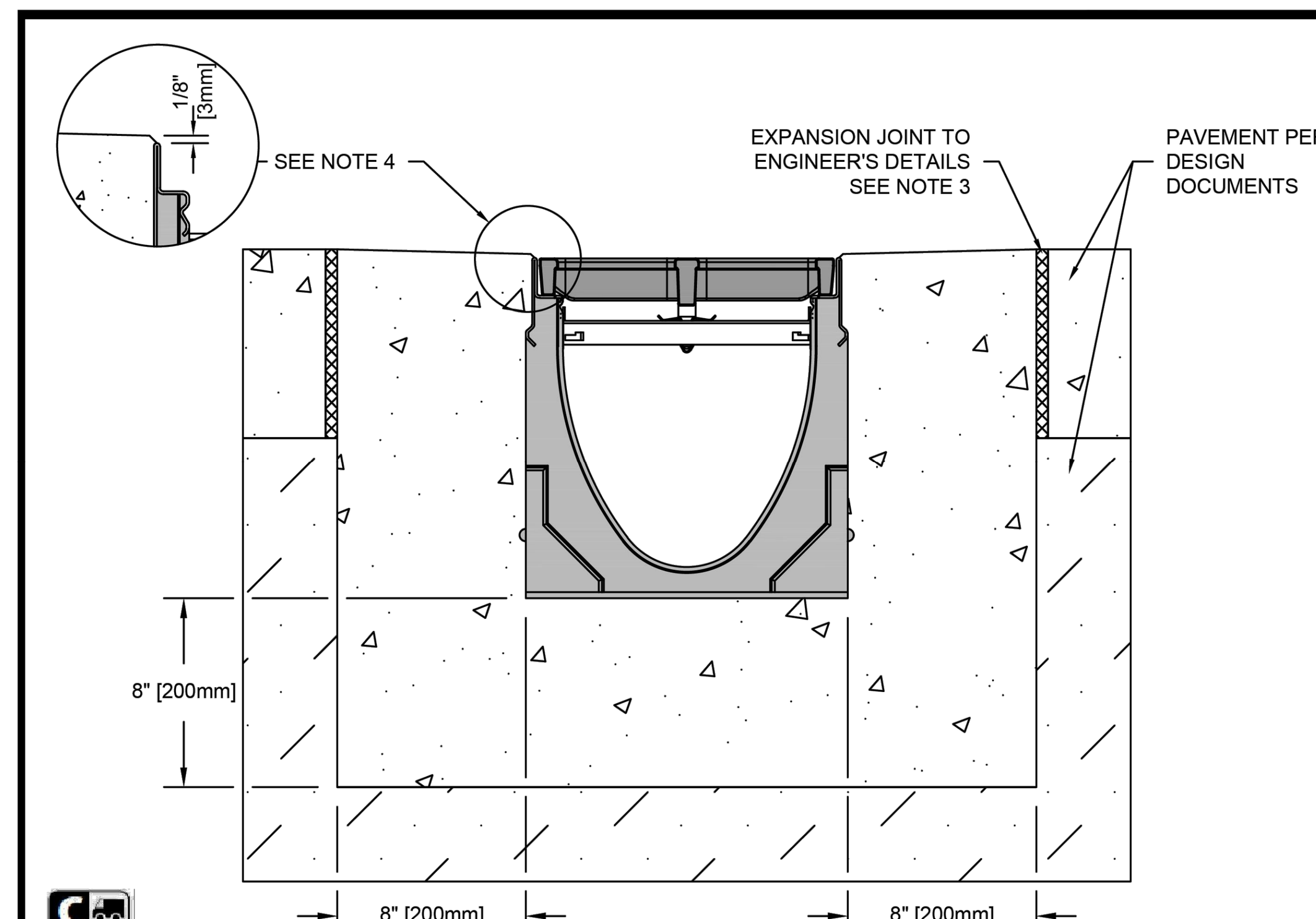
GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' [1524 mm] AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES [178 mm]. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) [L/s] DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft)[m²].
8. STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
E. CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES [200 mm], CONTRACTOR TO REMOVE THE 8 INCH [200 mm] OUTLET STUB AT MOLDED-IN CUT LINE. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.
F. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

The Stormwater Management StormFilter®

CONTECH ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

SFMH48
STORMFILTER
STANDARD DETAIL



NOTES:
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

K200 KLASSIKDRAIN 'QUICKLOK' LOAD CLASS C

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE K200 CHANNEL SYSTEM WITH GALVANIZED STEEL EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN GALVANIZED STEEL EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

THE SYSTEM SHALL BE 8" (200mm) NOMINAL INTERNAL WIDTH WITH A 10.2" (260mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'QUICKLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

K2Q-C-ECP
DATE: 08/17/16

K200 - KLASSIKDRAIN - LOAD CLASS: C
Exposed Concrete Pavement
INSTALLATION DRAWING - ACO DRAIN

ACO Polymer Products, Inc.

825 W. Beechcraft St Casa Grande, AZ 85122 Tel: 520-421-9988 Fax: 520-421-9899	9470 Pinecone Dr. Mentor, OH 44060 Tel: 440-639-7230 Fax: 440-639-7235	4211 Pleasant Rd. Fort Mill, SC 29708 Tel: 440-639-7230 Fax: 803-802-1063

Arizona Tel: 888-490-9552 e-mail: sales@acousa.com Ohio Tel: 800-543-4764 www.acousa.com South Carolina Tel: 800-543-4764

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Key Plan

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2/10/2025

FURR ENGINEERING SERVICES
4715 142nd Pl. SW #B, Edmonds, WA 98026
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Sheet Title

STORM DETAILS

Revisions

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3	2/10/25	PER CITY COMMENTS

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C4.2

NW 1/4 OF THE SW 1/4 OF SEC. 34, TWP 20N, RNG 4E, W.M.

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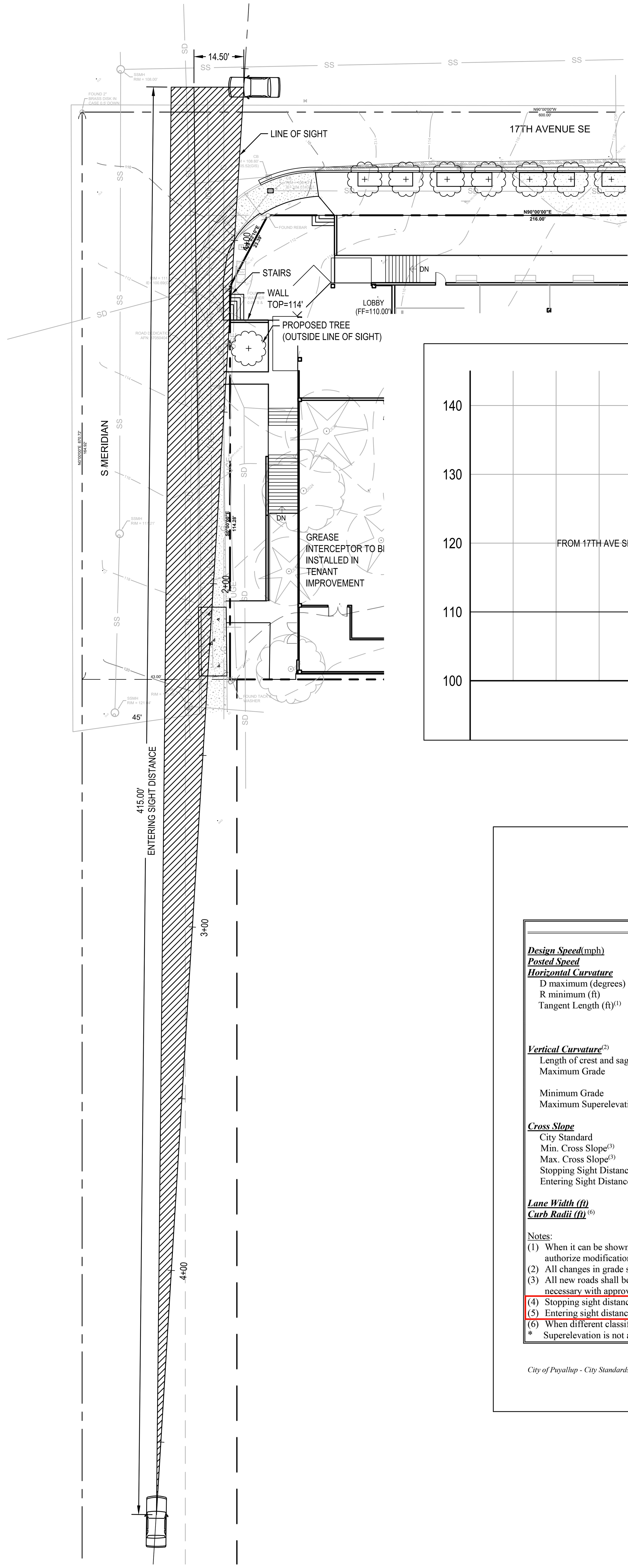

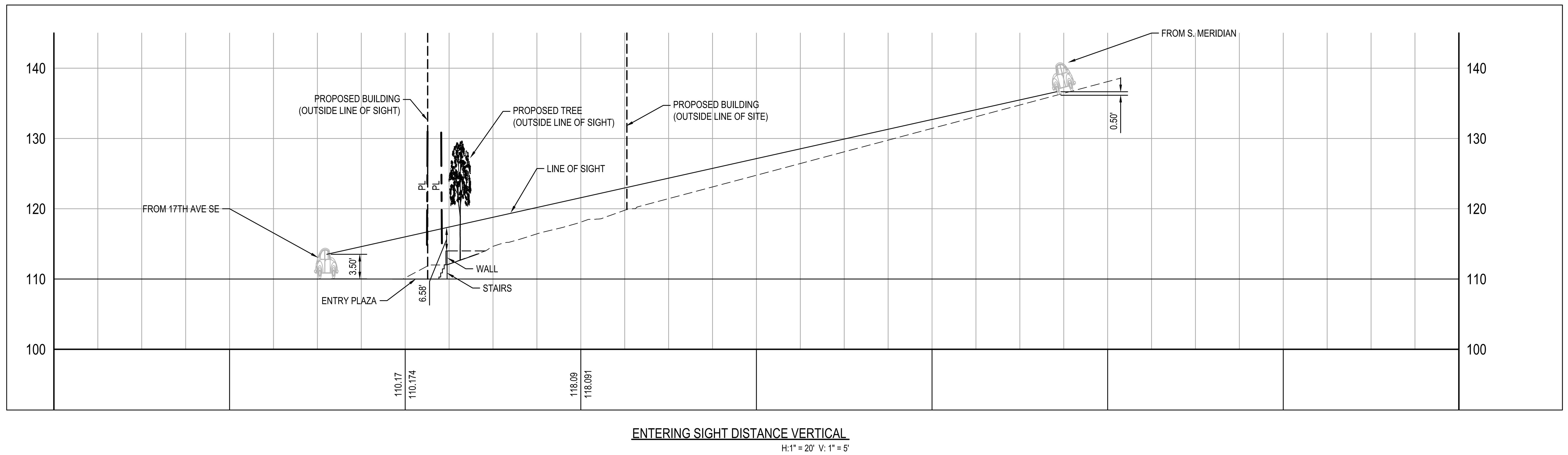

ENTERING SIGHT DISTANCE VERTICAL
H:1" = 20' V: 1" = 5'

Table 100-2
Roadway Geometric Design Criteria

		MAJOR/SECONDARY ARTERIAL			COLLECTOR			RESIDENTIAL
Design Speed(mph)		55	50	45	45	40	35	35
Posted Speed		45	40	35	35	30	25	25
Horizontal Curvature								
D maximum (degrees)		6.7°	9.6°	13.5°	13.5°	19.1°	25.5°	25.5°
R minimum (ft)		850	600	425	425	300	225	150
Tangent Length (ft)(1)		Minimum tangent length between reverse curves is dependent on superelevation runoff and entering sight distance. If none of these elements apply, the following minimum tangent lengths shall be used for Major/Secondary Arterials and Collectors: (2 lanes, 250 feet) (3 lanes, 300 feet) (4 lanes, 375 feet) (6 lanes, 450 feet)						100
Vertical Curvature(2)								
Length of crest and sag based on stopping sight distance specified for design speed								
Maximum Grade	(Major)	5.0%	5.0%	5.0%	10%	10%	10%	10%
	(Sec.)	8.0%	8.0%	8.0%				
Minimum Grade		0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Maximum Superelevation		5.0%	5.0%	5.0%	*	*	*	*
Cross Slope								
City Standard		3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Min. Cross Slope(3)		2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
Max. Cross Slope(3)		5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Stopping Sight Distance (ft)(4)		550	475	400	400	325	250	250
Entering Sight Distance (ft)(5)		530	470	415	415	350	300	300
Lane Width (ft)		11 (12 for turning lane)			11 (12 for turning lane)			9
Curb Radii (ft) (6)		35			35			25

Notes:
(1) When it can be shown that the minimum tangents would be impractical and where there would be no impact on traffic safety standards, the Engineering Services Staff may authorize modification of the requirement.
(2) All changes in grade shall be connected by vertical curves of a minimum length of 200 feet unless otherwise specified by the engineering department.
(3) All new roads shall be constructed with the city's standard cross slope. Existing roads to be widened may vary cross slope between minimum and maximum slopes as necessary with approval from the city engineer.
(4) Stopping sight distance based on: design speed, object height of 0.5 feet and a driver's eye height of 3.5 feet.
(5) Entering sight distance based on posted speed and shall apply to all intersections and driveways, commercial or residential.
(6) When different classifications of streets intersect, the lower classification curb radii shall be used.
* Superelevation is not allowed in these street classifications.

City of Puyallup - City Standards Road 100-18 *Revised 03/09/10*

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2/10/2025

FURR ENGINEERING SERVICES
4715 142nd Pl. SW #B, Edmonds, WA 98026
ph 206.890.8291

Sheet Title

ENTERING SIGHT DISTANCE PLAN

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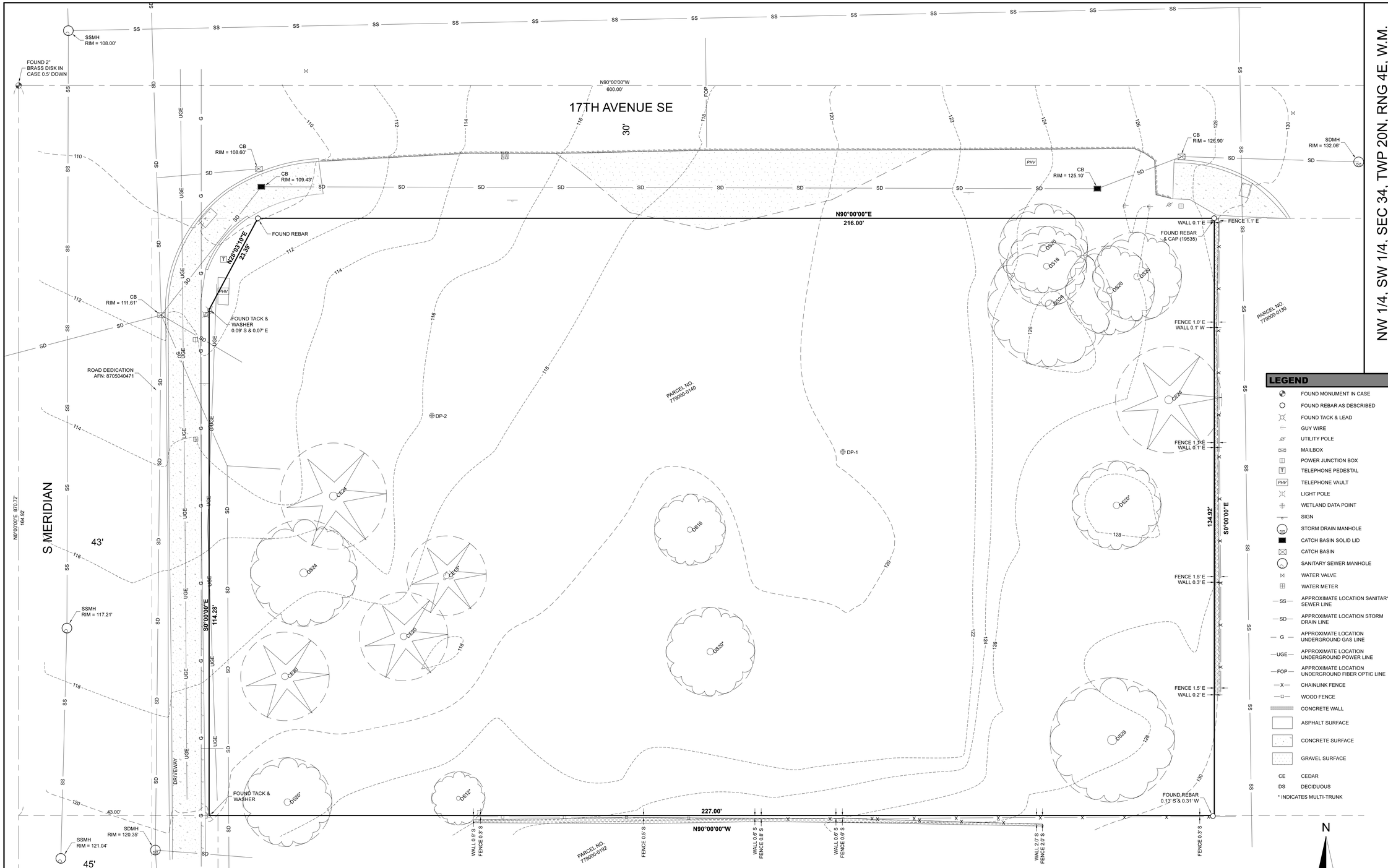
SD1.0



LEGEND

- FOUND MONUMENT IN CASE
- FOUND REBAR AS DESCRIBED
- FOUND TACK & LEAD
- GUY WIRE
- UTILITY POLE
- MAILBOX
- POWER JUNCTION BOX
- TELEPHONE PEDESTAL
- TELEPHONE VAULT
- LIGHT POLE
- WETLAND DATA POINT
- SIGN
- STORM DRAIN MANHOLE
- CATCH BASIN SOLID LID
- CATCH BASIN
- SANITARY SEWER MANHOLE
- WATER VALVE
- WATER METER
- APPROXIMATE LOCATION SANITARY SEWER LINE
- APPROXIMATE LOCATION STORM DRAIN LINE
- APPROXIMATE LOCATION UNDERGROUND GAS LINE
- APPROXIMATE LOCATION UNDERGROUND POWER LINE
- APPROXIMATE LOCATION UNDERGROUND FIBER OPTIC LINE
- CHAINLINK FENCE
- WOOD FENCE
- CONCRETE WALL
- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- CE CEDAR
- DS DECIDUOUS
- * INDICATES MULTI-TRUNK

LEGAL DESCRIPTION

A PORTION OF LOT 2, BLOCK 1, SOUTH SIDE ADDITION OF PUYALLUP, PIERCE COUNTY, WASH., ACCORDING TO PLAT RECORDED IN VOLUME 6 OF PLATS, PAGE 90, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF SAID LOT 2;
THENCE NORTH ALONG THE EAST LINE OF MERIDIAN STREET, 135.00 FEET;
THENCE EAST 240.00 FEET;
THENCE SOUTH 135.00 FEET TO SOUTH LINE OF LOT 2;
THENCE WEST 240.00 FEET TO THE POINT OF BEGINNING.

EXCEPT THE PORTION CONVEYED TO CITY OF PUYALLUP FOR RIGHT OF WAY PURPOSES AS RECORDED IN DEED UNDER RECORDING NO. 8705040471.

SITUATE IN THE CITY OF PUYALLUP, COUNTY OF PIERCE, STATE OF WASHINGTON.

BASIS OF BEARINGS

AN ASSUMED BEARING OF NORTH FOR THE CENTERLINE OF S MERIDIAN STREET BASED ON FOUND MONUMENTS.

PROJECT INFORMATION

PROPERTY OWNER:	PURITY MEDICAL SPA OF WASHINGTON, LLC 117 15TH AVENUE SE PUYALLUP, WA 98372
TAX PARCEL NUMBER:	PARCEL
PROJECT ADDRESS:	1617 S MERIDIAN PUYALLUP, WA 98371
ZONING:	CG
JURISDICTION:	CITY OF PUYALLUP
PARCEL ACREAGE:	30,513 S.F. (0.700 ACRES) AS SURVEYED

GENERAL NOTES

1. THIS SURVEY WAS COMPLETED WITHOUT BENEFIT OF A CURRENT TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.
2. INSTRUMENTATION FOR THIS SURVEY WAS A 3-SECOND SPECTRAPRECISION FOCUS 35 TOTAL STATION. PROCEDURES USED IN THIS SURVEY MEET OR EXCEED STANDARDS SET BY WAC 332-130-090.
3. THE INFORMATION ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN MAY 2023 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
4. UTILITIES SHOWN ON THIS SURVEY ARE BASED UPON ABOVE GROUND OBSERVATIONS AND AS-BUILT PLANS WHERE AVAILABLE. ACTUAL LOCATIONS OF UNDERGROUND UTILITIES MAY VARY AND UTILITIES NOT SHOWN ON THIS SURVEY MAY EXIST ON THIS SITE.
5. ALL MONUMENTS WERE LOCATED DURING THIS SURVEY UNLESS OTHERWISE NOTED.

VERTICAL DATUM & CONTOUR INTERVAL

DATUM

ELEVATIONS SHOWN ON THIS DRAWING WERE DERIVED FROM INFORMATION PROVIDED BY THE CITY OF PUYALLUP GIS.

2.0' CONTOUR INTERVAL - THE EXPECTED VERTICAL ACCURACY IS EQUAL TO 1/2 THE CONTOUR INTERVAL OR PLUS / MINUS 1.0' FOR THIS PROJECT.

N W E S

GRAPHIC SCALE
5 0 5 10 20
1 INCH = 10 FT.

NW 1/4, SW 1/4, SEC 34, TWP 20N, RNG 4E, W.M.

Site Surveying, Inc.
Phone: 425.298.4412
21923 NE 11th Street Sammamish, WA 98074
www.sitesurveymapping.com

WOLDENDORP WASHINGTON 38686 REGISTERED LAND SURVEYOR N. SWOHL PROFESSIONAL

DRN
REVISION
DATE

TOPOGRAPHIC SURVEY

PURITY MEDICAL SPA OF WASHINGTON, LLC
1617 S MERIDIAN
PUYALLUP, WA 98371

PROJECT NO. 23-181

DRAWN BY: MTS
CHECKED BY: TNW
DATE: 5/11/2023

SHEET 1 OF 1