

STORMVAULT COALESCING PLATE SEPARATOR

MODEL: SVCPS-3/8-75

SYSTEM AND TREATMENT FLOW DESIGN:

WATER QUALITY TREATMENT FLOWRATE (WQTF)	75-GPM (0.17-CFS)
TARGET EFFLUENT CONCENTRATION	15-MG/L
TARGET MINIMUM PARTICLE SIZE TO BE REMOVED	43.75- μ m (MICRONS)
SPACING BETWEEN LAMELLA PLATES	3/8"
NUMBER OF 14" WIDE x 28.8" LONG ALUMINUM PLATES	270
NUMBER OF LAMELLA PLATE STACKS	3
NUMBER OF LAMELLA PLATES PER STACK	90

LAMELLA PLATES TREATMENT PERFORMANCE NOTES:

- THE STORMVAULT COALESCING PLATE SEPARATOR SYSTEM (LAMELLA) IS EFFECTIVE IN REDUCING OIL DROPLETS DOWN TO 15 MG/L AND TSS CONCENTRATION DOWN TO 50 MG/L IN THE EFFLUENT FLOW

LAMELLA PLATE DESIGN ASSUMPTIONS:

MEAN OIL DROP SIZE	130- μ m
INFLUENT CONCENTRATION	200-MG/L
SPECIFIC GRAVITY OF SEDIMENT PARTICLE	2.65
TEMPERATURE OF OPERATION	60°F
SEDIMENT PARTICLE SIZE DISTRIBUTION	LOG-NORMAL DISTRIBUTION WITH STANDARD DEVIATION 2.0

- THE STORMVAULT COALESCING PLATE SEPARATOR SYSTEM (LAMELLA) IS MANUFACTURED USING HIGH GRADE ALUMINUM.
- FOR WATER QUALITY DISCHARGE TO STORM SYSTEM UNIT REQUIRING DIVERSION/BYPASS VAULT/MANHOLE, SEE JENSEN DIVERTER STRUCTURE.

GENERAL NOTES:

- SOME INTERNAL COMPONENTS NOT SHOWN FOR CLARITY
- EACH VAULT SECTION HAS AN ACCESS LID UNLESS SHOWN OTHERWISE
- ALL INTERNAL COMPONENTS INSTALLED BY JENSEN UNLESS OTHERWISE SPECIFIED.
- FOR UNITS REQUIRING WATER QUALITY DIVERSION/BYPASS SYSTEM, SEE JENSEN DIVERTER STRUCTURE
- PANEL DETAILS AND PANEL WIRING DRAWINGS AVAILABLE TO SUPPORT OPTIONAL LEVEL ALARM SENSOR SYSTEM INSTALLATION.

CONSTRUCTION NOTES:

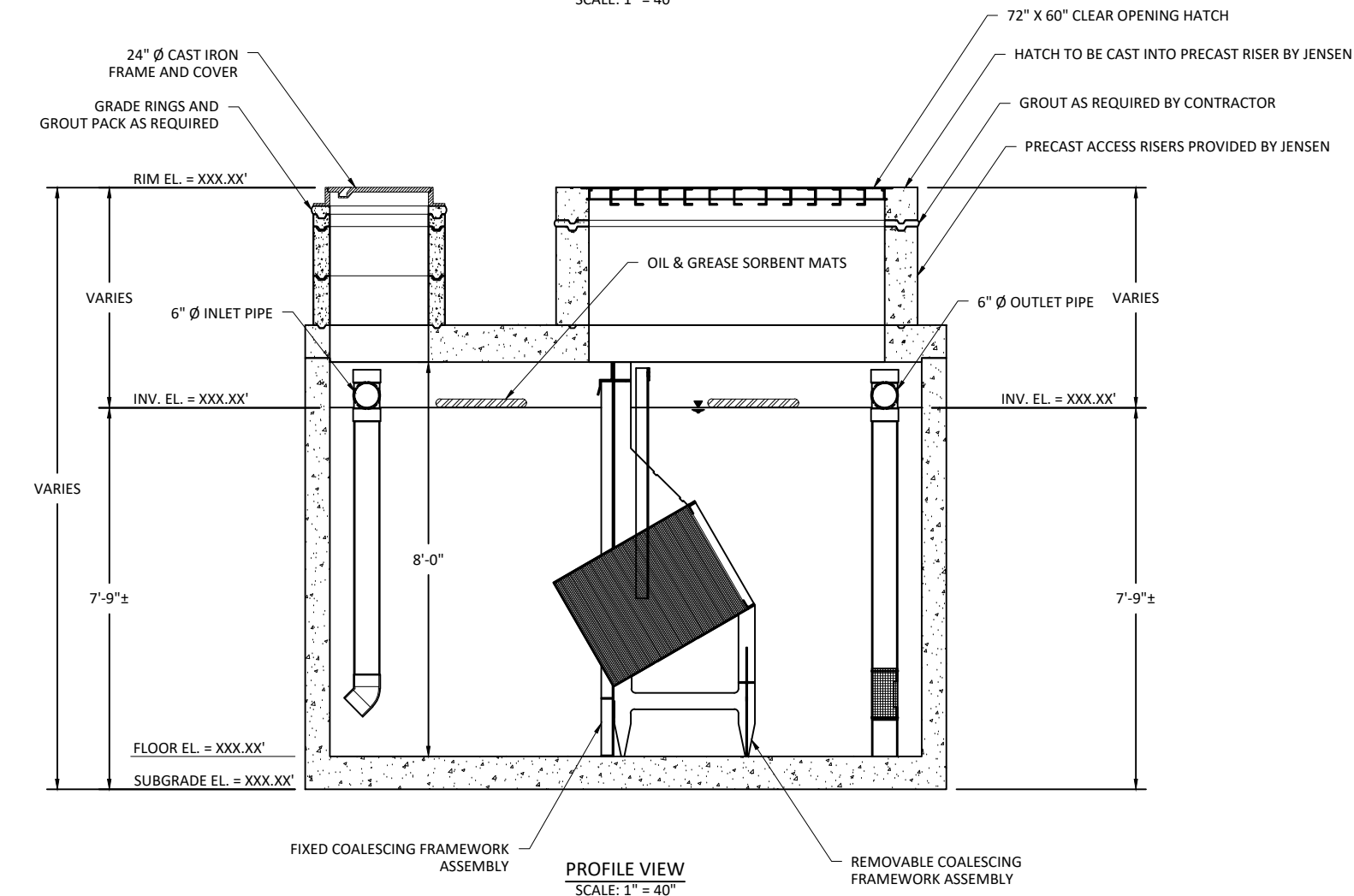
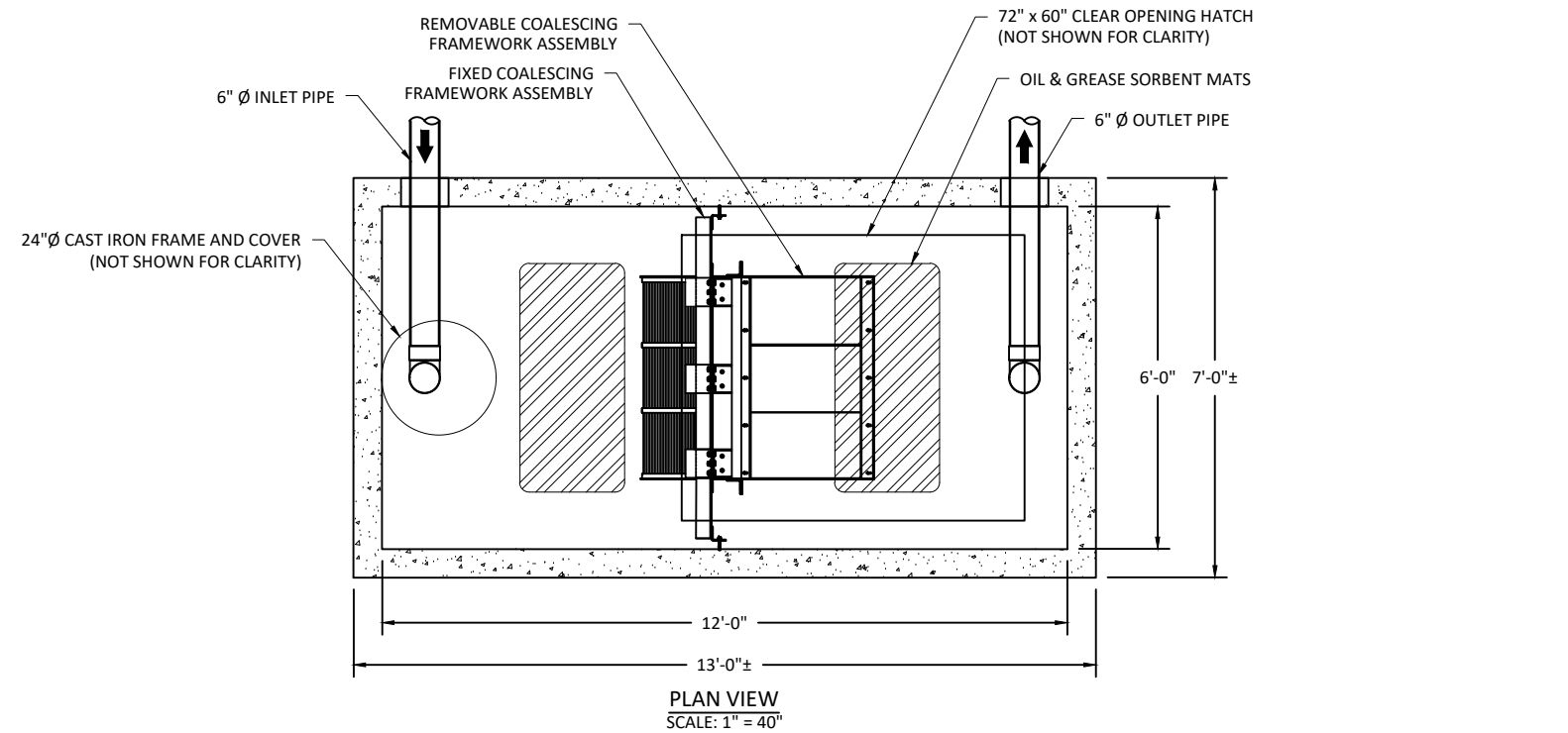
- ALL DIMENSIONS ARE IN FRACTIONAL INCHES.
- CONTRACTOR TO VERIFY ALL DIMENSIONS OF ALL PRECAST PIECES IN FIELD.
- VERIFY DIMENSION AND CONDITION OF REMOVABLE ALUMINUM FRAME AND MEDIA-PACKS BEFORE INSTALLATION.
- VERIFY SUBBASE/SUBGRADE ELEVATION BEFORE PLACING PRECAST COMPONENTS OR BACKFILLING.
- APPLY BUTYL MASTIC AND/OR GROUT TO SEAL JOINTS OF STRUCTURE.
- APPLY LOAD TO MASTIC SEAL IN JOINTS OF VAULT TO COMPRESS SEALANT IF NECESSARY. UNIT MUST BE WATER TIGHT, HOLDING WATER UP TO FLOWLINE INVERT (MINIMUM).
- CONTRACTOR TO GROUT SEAL INLET AND DISCHARGE PIPES TO VAULT/MANHOLE WALL IF NO BOOT CONNECTION SPECIFIED.
- BLOCK AND/OR GROUT PACK BENEATH FRAMES AND COVERS TO MATCH FINISHED GRADE.
- TOP & BOTTOM SLABS AND WALL THICKNESS SHALL BE DESIGNED FOR SPECIFIC PROJECT INSTALLATION DEPTHS.


MATERIALS:

- PRECAST VAULT MATERIALS AND MANUFACTURING METHODS SHALL CONFORM TO ALL APPLICABLE ASTM AND ASSHTO SPECIFICATIONS.

MATERIAL LIST - PROVIDED WITH UNIT:

QTY	COMPONENT DESCRIPTION	MATERIAL PROVIDER	RESPONSIBLE INSTALLER
1	6" ϕ INLET AND OUTLET STUB PIPES	JENSEN	CONTRACTOR
1	6" ϕ INLET 45° ELBOW	JENSEN	CONTRACTOR
2	6" ϕ INLET AND OUTLET VERTICAL PIPE AND TEE	JENSEN	CONTRACTOR
1	REMOVABLE COALESCING FRAMEWORK ASSEMBLY	JENSEN	CONTRACTOR
1	FIXED COALESCING FRAMEWORK ASSEMBLY	JENSEN	JENSEN
2	OIL & GREASE SORBENT MATS OR PADS	JENSEN	CONTRACTOR
1	24" ϕ CAST IRON FRAME AND COVER	JENSEN	CONTRACTOR
1	72" x 60" ACCESS HATCH,	JENSEN	CONTRACTOR
AS RQD.	24" ϕ GRADE RINGS	JENSEN	CONTRACTOR
AS RQD.	72" x 60" ACCESS RISER	JENSEN	CONTRACTOR



TITLE SHEET: SVCPS-3/8-75 PLAN AND PROFILE		PROJECT: PROJECT NAME CITY, STATE		 521 DUNN CIRCLE, SPARKS, NV 89431-6312 (877) 649-0095 FAX (775) 440-2013 www.jensenengineeredsystems.com	
ENHANCED GRAVITY SEPARATION					
ORIG. DWG. DATE: 7/29/2019	REV. DWG. DATE: XX/XX/XXXX	SCALE: 1 : 40	SHEET SIZE: 11 X 17	DRAWN BY: S.T.	SHEET NUMBER: SHEET NO. 3 OF 4