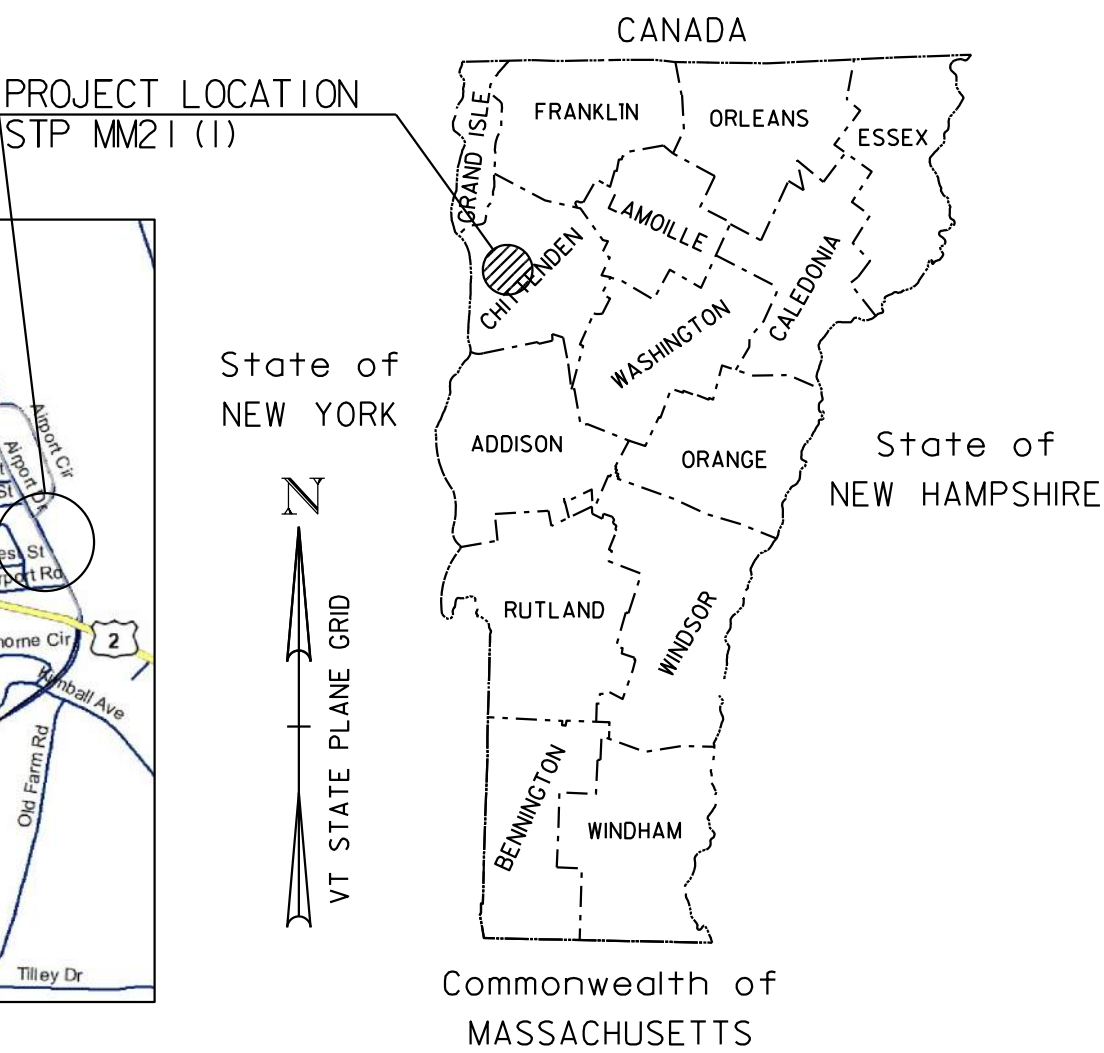
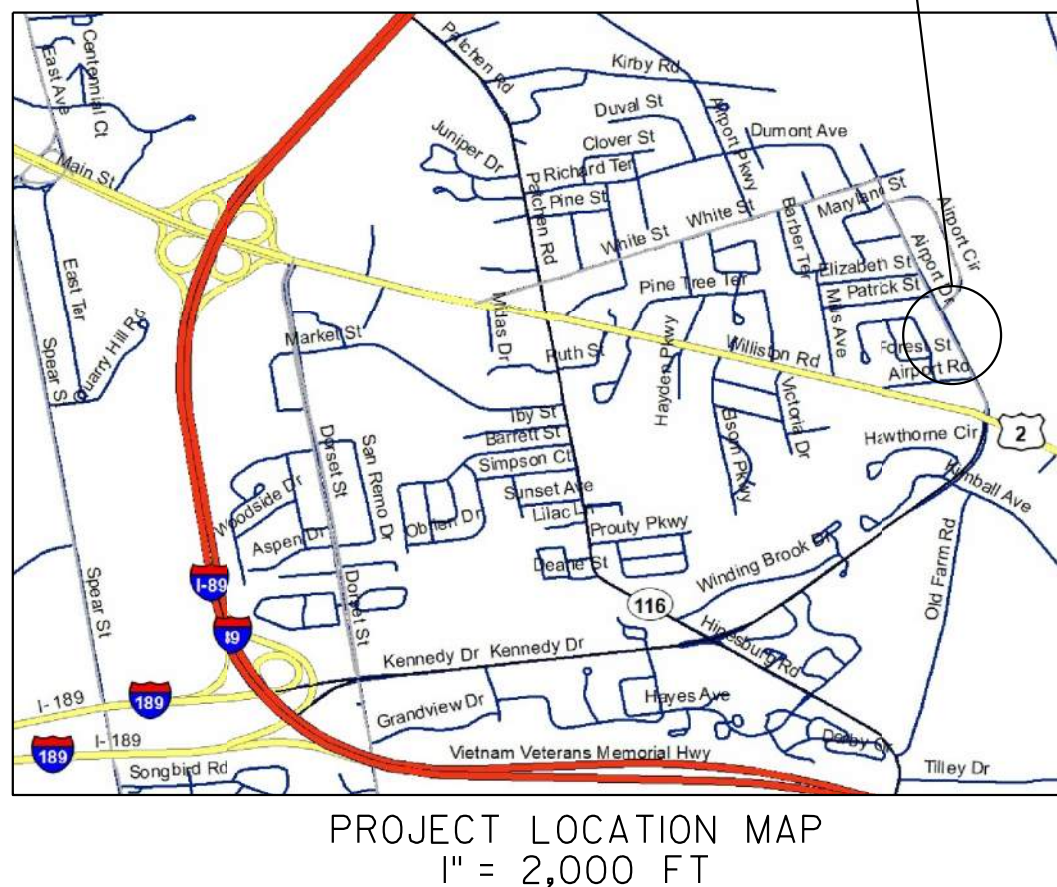


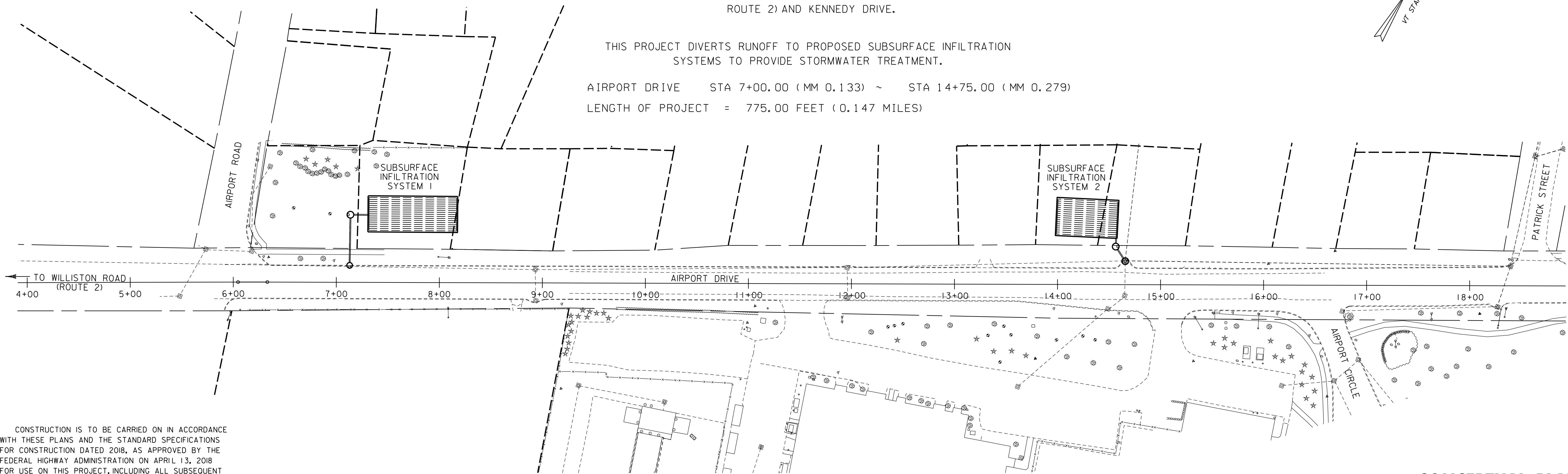
CITY OF SOUTH BURLINGTON  
PUBLIC WORKS  
  
PROPOSED IMPROVEMENT  
SOUTH BURLINGTON  
COUNTY OF CHITTENDEN  
AIRPORT DRIVE (MINOR ARTERIAL)



THIS PROJECT IS LOCATED ALONG THE WEST SIDE OF AIRPORT DRIVE,  
APPROXIMATELY 700 FEET NORTH OF THE INTERSECTION WITH WILLISTON ROAD (US  
ROUTE 2) AND KENNEDY DRIVE.

THIS PROJECT DIVERTS RUNOFF TO PROPOSED SUBSURFACE INFILTRATION  
SYSTEMS TO PROVIDE STORMWATER TREATMENT.

AIRPORT DRIVE STA 7+00.00 (MM 0.133) ~ STA 14+75.00 (MM 0.279)  
LENGTH OF PROJECT = 775.00 FEET (0.147 MILES)



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE  
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS  
FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE  
FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018  
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT  
REVISIONS AND SUCH REVISED SPECIFICATIONS AND  
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE  
PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY : VSE	
SURVEYED DATE : JUNE 2018	
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (2011)



**FUSS&O'NEILL**  
50 COMMERCIAL STREET  
MANCHESTER, NH 03101  
603.668.8223  
www.fando.com

CITY OF SOUTH BURLINGTON	
APPROVED _____	DATE _____
MUNICIPAL PROJECT MANAGER : CHRISTINE GINGRAS	
MUNICIPAL PROJECT NAME : SOUTH BURLINGTON STP MM21 (1)	
SHEET 1 OF 9 SHEETS	

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

TRAFFIC SIGN SYMBOLGY

SIGNS	DESCRIPTION
	NEW SIGN
	RETAIN SIGN
	RESETTING SIGN
	REMOVING SIGN OR POST
	REMOVING AND RESETTING SIGN

LANDSCAPE

POINT	DESCRIPTION
	TREE REMOVAL

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
	BNDNS	BOUND SET
	BNDNS	BOUND TO BE SET
	IPNS	IRON PIN SET
	IPNS	IRON PIN TO BE SET
	CALC	EXISTING ROW POINT
	PROW	PROPOSED ROW POINT
		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
	APL	BOUND APPARENT LOCATION
	BM	BENCHMARK
	BND	BOUND
	CB	CATCH BASIN
	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
	EL	ELECTRIC POWER POLE
	FPOLE	FLAGPOLE
	GASFIL	GAS FILLER
	GP	GUIDE POST
	GSO	GAS SHUT OFF
	GUY	GUY POLE
	GUYW	GUY WIRE
	GV	GATE VALVE
	H	TREE HARDWOOD
	HCTRL	CONTROL HORIZONTAL
	HVCTRL	CONTROL HORIZ. & VERTICAL
	HYD	HYDRANT
	IP	IRON PIN
	IPIPE	IRON PIPE
	LI	LIGHT - STREET OR YARD
	MB	MAILBOX
	MH	MANHOLE (MH)
	MM	MILE MARKER
	PM	PARKING METER
	PMK	PROJECT MARKER
	POST	POST STONE/WOOD
	RRSIG	RAILROAD SIGNAL
	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
	SAT	SATELLITE DISH
	SHRUB	SHRUB
	SIGN	SIGN
	STUMP	STUMP
	TEL	TELEPHONE POLE
	TIE	TIE
	TSIGN	SIGN W/DOUBLE POST
	VCTRL	CONTROL VERTICAL
	WELL	WELL
	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

	UTILITY (GENERIC-UNKNOWN)
	TELEPHONE
	ELECTRIC
	CABLE (TV)
	ELECTRIC+CABLE
	ELECTRIC+TELEPHONE
	CABLE+TELEPHONE
	ELECTRIC+CABLE+TELEP.
	GAS LINE
	WATER LINE
	SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

	UTILITY (GENERIC-UNKNOWN)
	TELEPHONE
	ELECTRIC
	CABLE (TV)
	ELECTRIC+CABLE
	ELECTRIC+TELEPHONE
	ELECTRIC+TELEPHONE
	CABLE+TELEPHONE
	ELECTRIC+CABLE+TELEP.
	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

	CLEAR ZONE
	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

	TOP OF CUT SLOPE
	TOE OF FILL SLOPE
	STONE FILL
	BOTTOM OF DITCH
	CULVERT PROPOSED
	STRUCTURE SUBSURFACE
	PROJECT DEMARCATION FENCE
	BARRIER FENCE
	TREE PROTECTION ZONE (TPZ)
	STRIPING LINE REMOVAL
	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLGY

BOUNDARY LINES

	TOWN BOUNDARY LINE
	COUNTY BOUNDARY LINE
	STATE BOUNDARY LINE
	PROPOSED STATE R.O.W. (LIMITED ACCESS)
	PROPOSED STATE R.O.W.
	STATE ROW (LIMITED ACCESS)
	STATE ROW
	TOWN ROW
	PERMANENT EASEMENT LINE (P)
	TEMPORARY EASEMENT LINE (T)
	SURVEY LINE
	PROPERTY LINE (P/L)
	SLOPE RIGHTS
	6F PROPERTY BOUNDARY
	4F PROPERTY BOUNDARY
	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLGY

EPSC MEASURES

	FILTER CURTAIN
	SILT FENCE
	SILT FENCE WOVEN WIRE
	CHECK DAM
	DISTURBED AREAS REQUIRING RE-VEGETATION
	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

ENVIRONMENTAL RESOURCES

	WETLAND BOUNDARY
	RIPARIAN BUFFER ZONE
	WETLAND BUFFER ZONE
	SOIL TYPE BOUNDARY
	THREATENED & ENDANGERED SPECIES
	HAZARDOUS WASTE AREA
	AGRICULTURAL LAND
	FISH & WILDLIFE HABITAT
	FLOOD PLAIN
	ORDINARY HIGH WATER (OHW)
	STORM WATER
	USDA FOREST SERVICE LANDS
	WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

	ARCHEOLOGICAL BOUNDARY
	HISTORIC DISTRICT BOUNDARY
	HISTORIC AREA
	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLGY

EXISTING FEATURES

	ROAD EDGE PAVEMENT
	ROAD EDGE GRAVEL
	DRIVEWAY EDGE
	DITCH
	FOUNDATION
	FENCE (EXISTING)
	FENCE WOOD POST
	FENCE STEEL POST
	GARDEN
	ROAD GUARDRAIL
	RAILROAD TRACKS
	CULVERT (EXISTING)
	STONE WALL
	WALL
	WOOD LINE
	BRUSH LINE
	HEDGE
	BODY OF WATER EDGE
	LEDGE EXPOSED

PROJECT NAME: SOUTH BURLINGTON

PROJECT NUMBER: STP MM2I(I)

FILE NAME: zSTP\_MM2I(I)frm.dgn

PROJECT LEADER: P. SHEDD

DESIGNED BY: A. VOMACKA

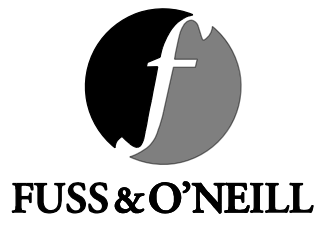
CONVENTIONAL SYMBOLGY LEGEND SHEET

PLOT DATE: 1/6/2022

DRAWN BY: A. VOMACKA

CHECKED BY: K. HAYDEN

SHEET 2 OF 9



FUSS&O'NEILL



GENERAL NOTES

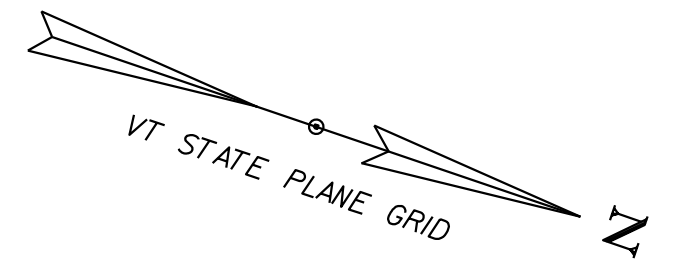
- 1. ALL UTILITIES SHOWN ARE APPROXIMATE AND BASED UPON BEST AVAILABLE INFORMATION AS PROVIDED BY UTILITY PROVIDERS, CITY OF SOUTH BURLINGTON AND FIELD SURVEY. PRIOR TO CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATIONS OF ALL UTILITIES (ABOVE AND BELOW GROUND) WITHIN THE PROJECT LIMITS, AND TO TAKE THE NECESSARY PRECAUTIONS TO PROTECT UTILITIES DURING CONSTRUCTION. CONTACT DIG-SAFE AT 1-800-DIG-SAFE (WWW.DIGSAFE.COM). PRIOR TO ANY EXCAVATION TO LOCATE UTILITIES WITHIN THE PROJECT AREA. IN THE CASE OF DAMAGE THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AT NO ADDITIONAL COST TO THE CITY OF SOUTH BURLINGTON.
- 2. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND THE EXISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE PROCEEDING WITH WORK.
- 5. THE CONTRACTOR SHALL PROVIDE A SITE-SPECIFIC EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLAN IN ACCORDANCE WITH SECTION 653 OF THE VERMONT AGENCY OF TRANSPORTATION (VTRANS) 2018 STANDARD SPECIFICATIONS FOR CONSTRUCTION. ESTIMATED QUANTITIES FOR EPSC WORK HAVE BEEN INCLUDED IN THE CONTRACT FOR BIDDING PURPOSES. IF THE CONTRACTOR'S EPSC PLAN REQUIRES ITEMS OF WORK THAT ARE NOT INCLUDED IN THE PLANS THEY WILL BE CONSIDERED INCIDENTAL TO ITEM 653.03 MAINTENANCE OF EPSC PLAN.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING, WATER DIVERSION AND DEWATERING REQUIRED FOR THE PROJECT. ALL WORK TO BE CONDUCTED IN THE DRY. THE CONTRACTOR IS RESPONSIBLE FOR DIVERTING, BYPASS PUMPING OR OTHERWISE ISOLATING THE WORK AREA FROM FLOWING WATER. THE CONTRACTOR IS TO SUBMIT A CONTROL OF WATER PLAN FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION. THERE WILL BE NO SEPARATE PAYMENT FOR TEMPORARY SHORING, WATER DIVERSION OR DEWATERING. THIS WORK SHALL BE INCIDENTAL TO ITEM 653.03 MAINTENANCE OF EPSC PLAN.
- 7. CARE SHALL BE TAKEN TO PROTECT AND PRESERVE EXISTING TREES OUTSIDE OF THE PROJECT AREA OF DISTURBANCE.
- 8. ALL STORMWATER TREATMENT PRACTICES AND PROCEDURES ARE REFERENCED FROM THE 2017 VERMONT STORMWATER MANAGEMENT MANUAL AND DESIGN GUIDANCE, BY THE VERMONT AGENCY OF NATURAL RESOURCES.
- 9. ALL WORK SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES, REGULATIONS AND STANDARDS. THE MORE STRINGENT SHALL APPLY.
- 10. CARE SHALL BE TAKEN TO ENSURE THE LIVING SOUNDWALL LOCATED ADJACENT TO SYSTEM 2 IS NOT IMPACTED BY INSTALLATION OF THE SUBSURFACE INFILTRATION SYSTEM.

PROJECT NAME: SOUTH BURLINGTON  
PROJECT NUMBER: STP MM2I(I)

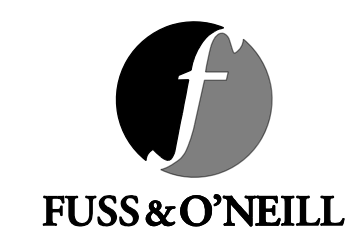
FILE NAME: zSTP_MM2I(I).typ.dgn	PLOT DATE: 1/6/2022
PROJECT LEADER: P. SHEDD	DRAWN BY: A. VOMACKA
DESIGNED BY: A. VOMACKA	CHECKED BY: K. HAYDEN
GENERAL NOTES	SHEET 3 OF 9





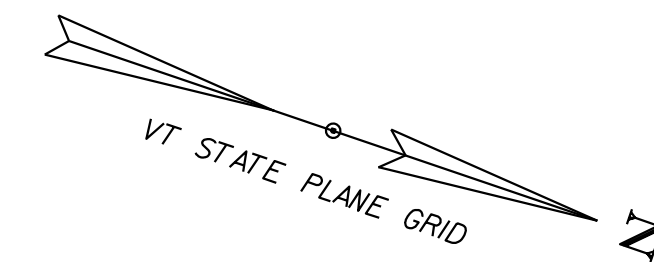


MATCH LINE PLAN SHEET 2

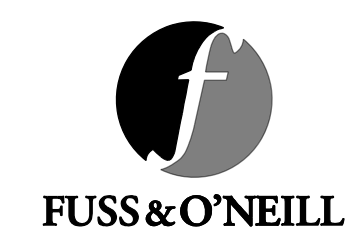
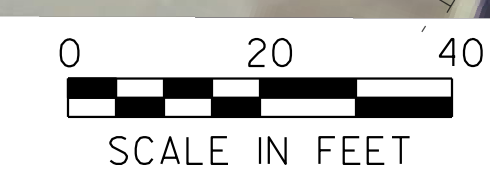


PROJECT NAME: SOUTH BURLINGTON	
PROJECT NUMBER: STP MM2I(I)	
FILE NAME: zSTP_MM2I(I)bdr.dgn	PLOT DATE: 1/6/2022
PROJECT LEADER: P. SHEDD	DRAWN BY: A. VOMACKA
DESIGNED BY: A. VOMACKA	CHECKED BY: K. HAYDEN
PLAN SHEET I	SHEET 4 OF 9



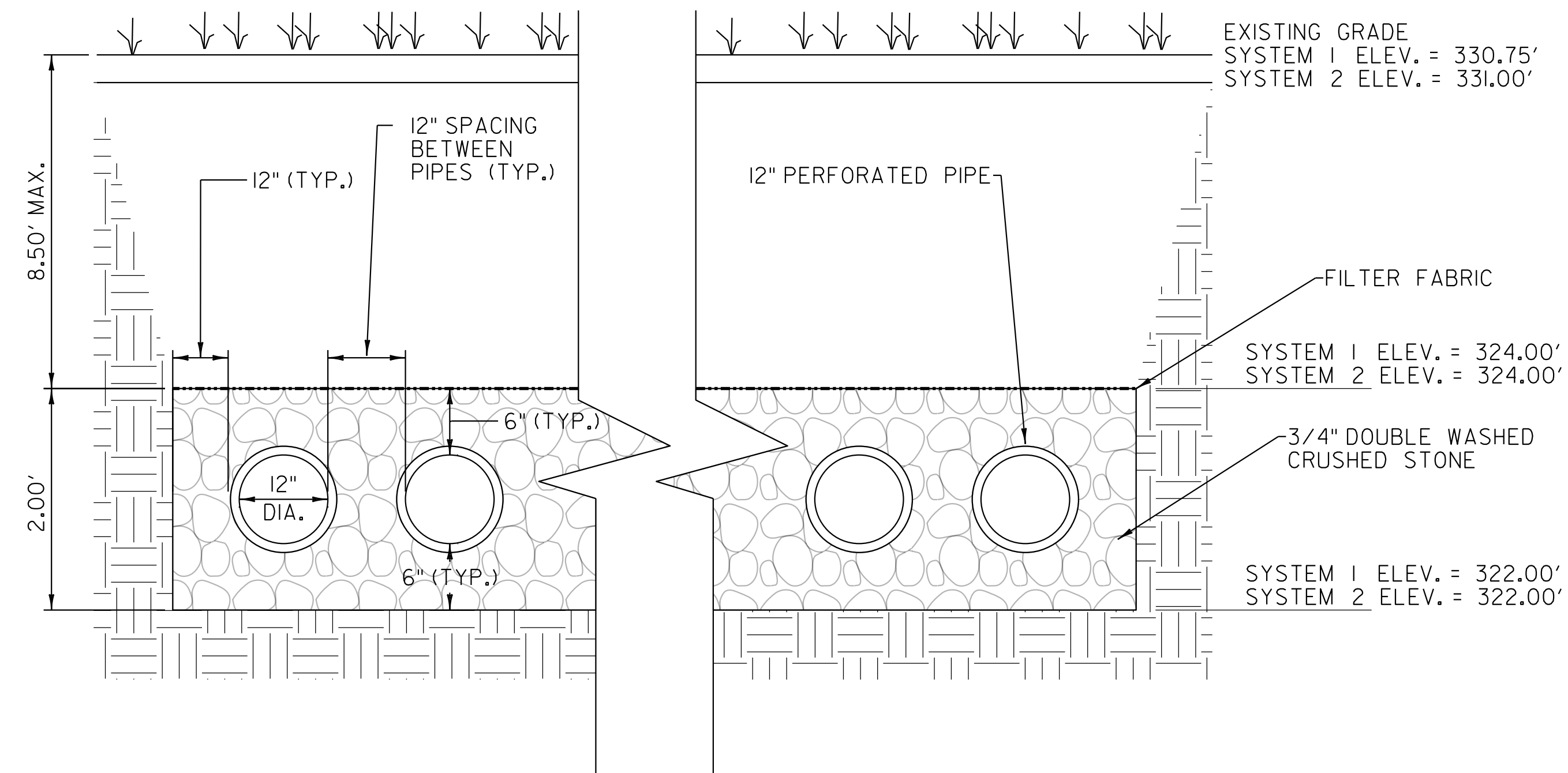


MATCH LINE PLAN SHEET 1



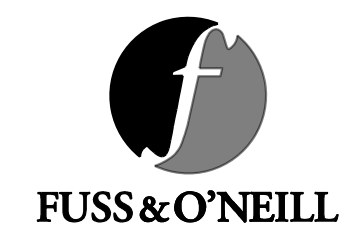
PROJECT NAME: SOUTH BURLINGTON	
PROJECT NUMBER: STP MM2I(I)	
FILE NAME: zSTP MM2I(I)bdr.dgn	PLOT DATE: 1/6/2022
PROJECT LEADER: P. SHEDD	DRAWN BY: A. VOMACKA
DESIGNED BY: A. VOMACKA	CHECKED BY: K. HAYDEN
PLAN SHEET 2	SHEET 5 OF 9



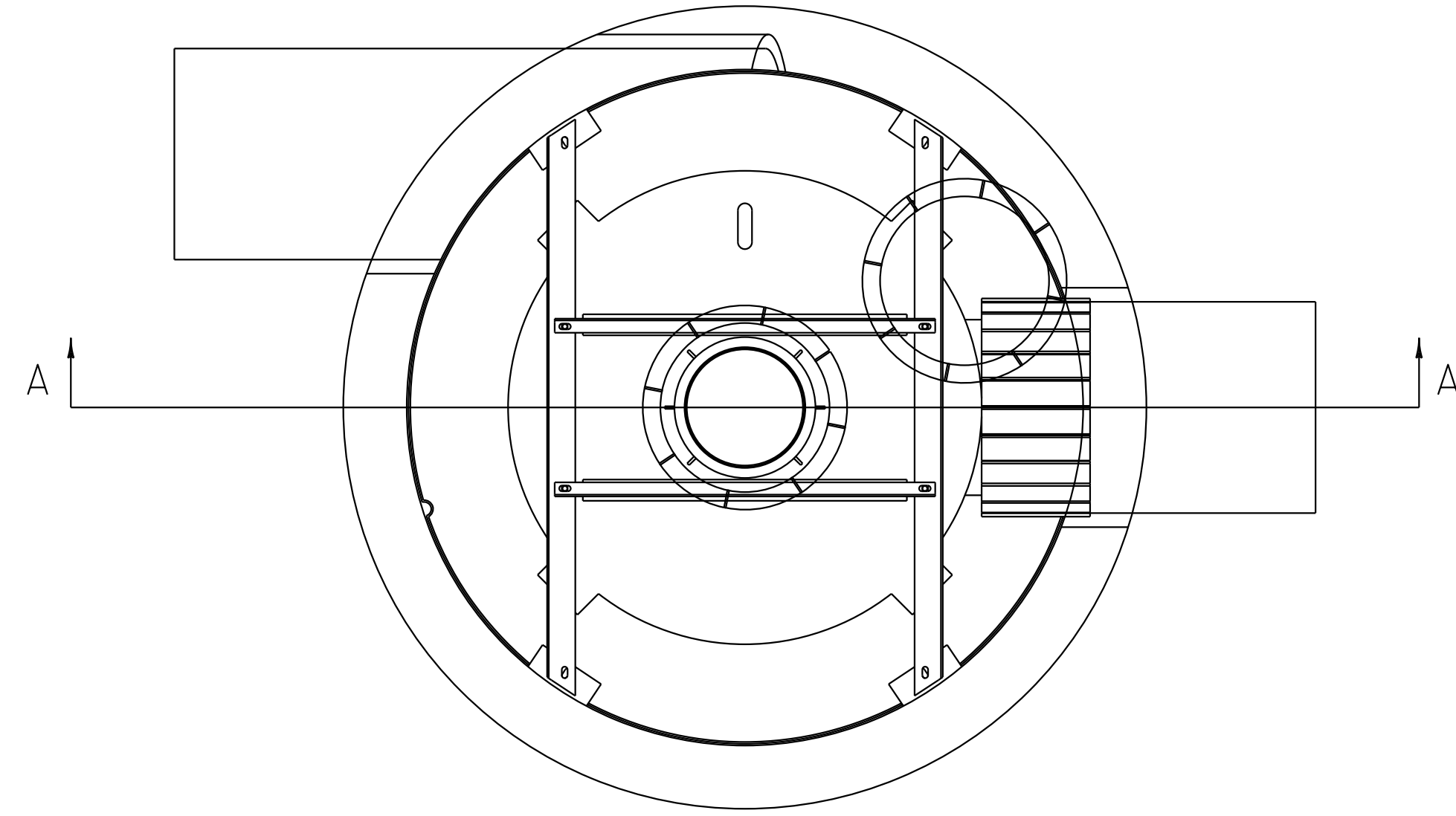


**SUBSURFACE INFILTRATION TYPICAL SECTION**

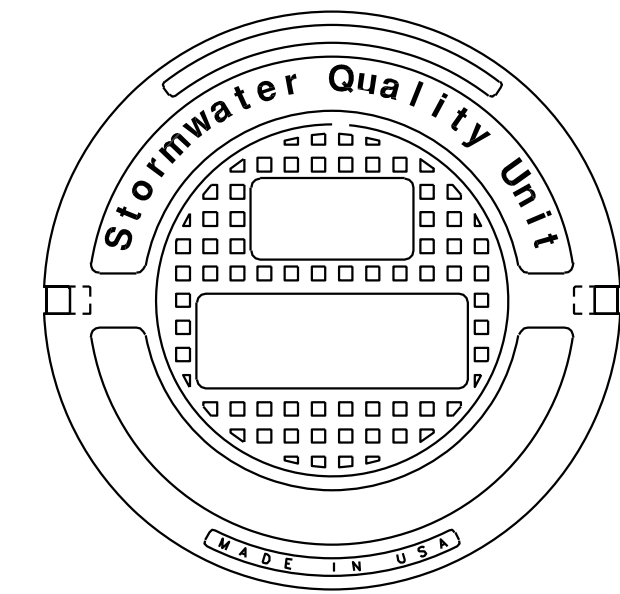
NOT TO SCALE



PROJECT NAME:	SOUTH BURLINGTON
PROJECT NUMBER:	STP MM2I(I)
FILE NAME: zSTP_MM2I(I).typ.dgn	PLOT DATE: 1/6/2022
PROJECT LEADER: P. SHEDD	DRAWN BY: A. VOMACKA
DESIGNED BY: A. VOMACKA	CHECKED BY: K. HAYDEN
UNDERGROUND INFILTRATION DETAIL SHEET	SHEET 6 OF 9

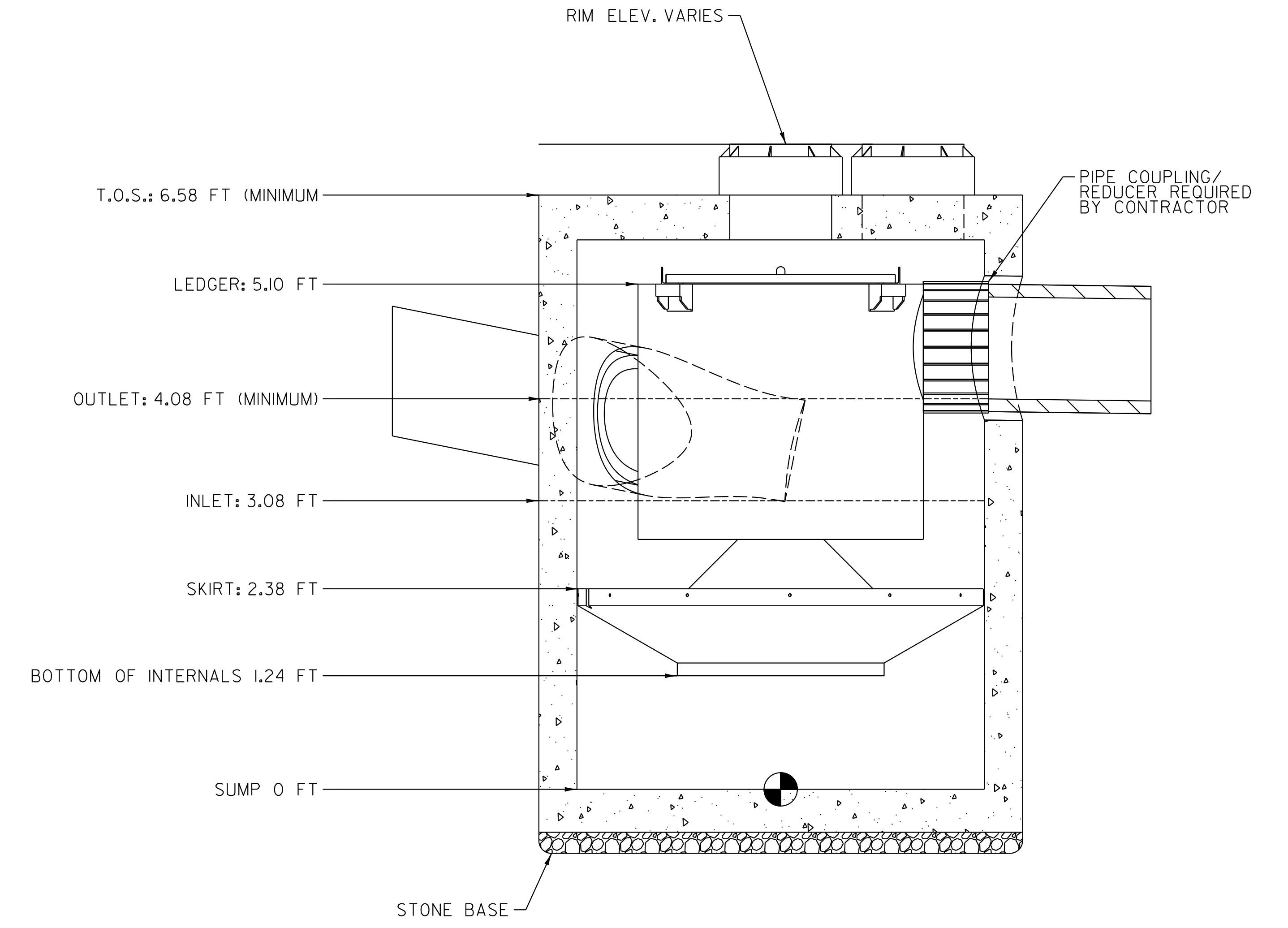


**PLAN**



**FRAME AND COVER**

GRADE RINGS BY OTHERS  
AS REQUIRED



**SECTION A-A**

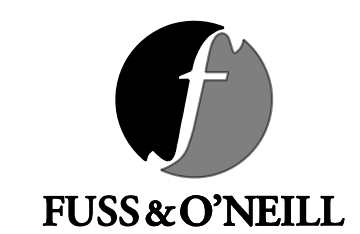
**FOR PRELIMINARY PURPOSES ONLY.  
A DETAILED STRUCTURE WILL BE PROVIDED  
WITH THE FINAL PLANS SUBMISSION.**

**EQUIPMENT PERFORMANCE**

THE STORMWATER TREATMENT UNIT SHALL PROVIDE THE REMOVAL EFFICIENCIES AND STORAGE CAPACITIES AS FOLLOWS:

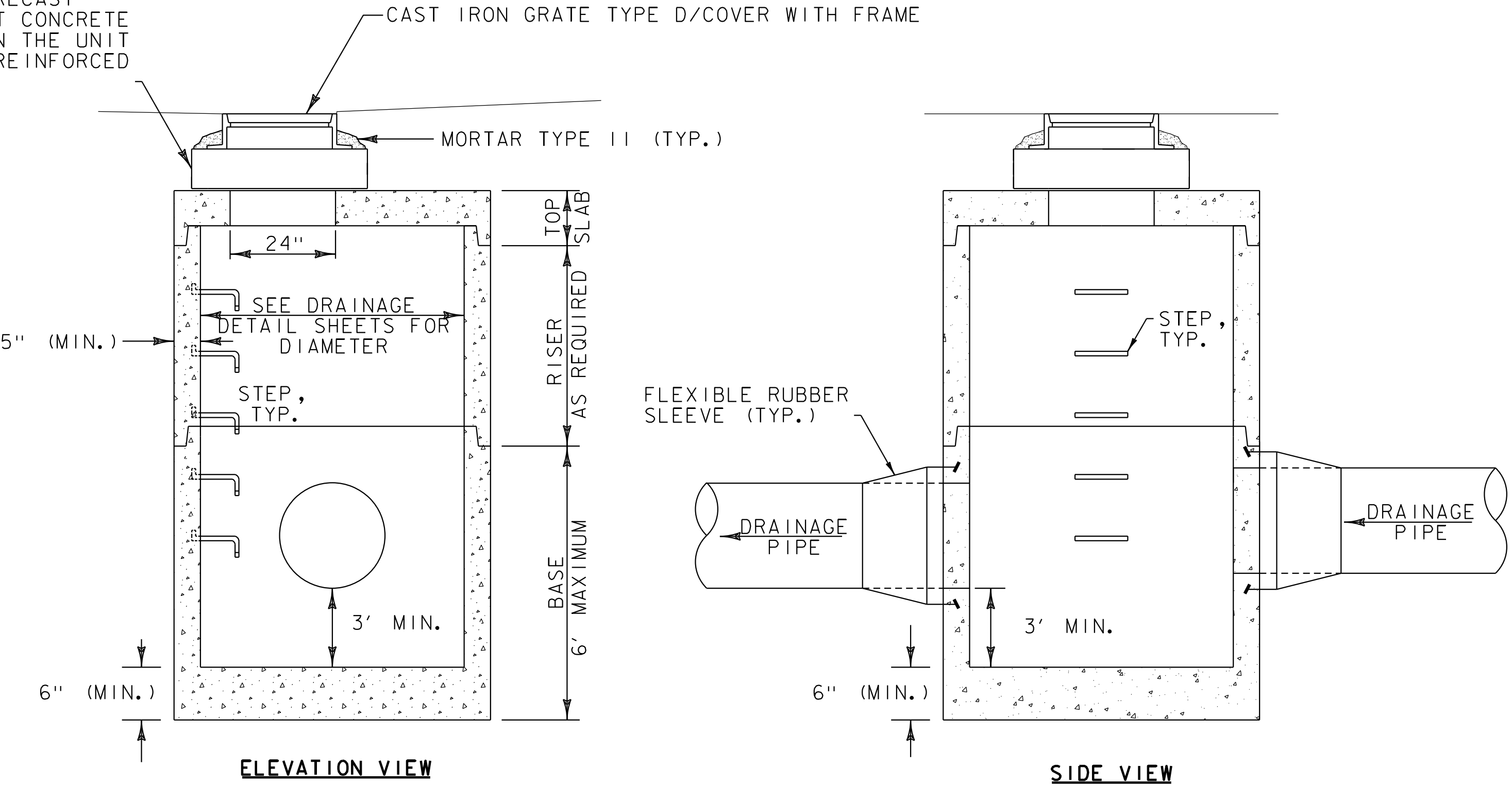
1. THE TREATMENT SYSTEM SHALL BE CAPABLE OF SEPARATING POLLUTANTS AND SEDIMENT FROM STORMWATER RUNOFF.
2. MUST BE CAPABLE OF A:
  - PEAK HYDRAULIC CAPACITY: 3.0 CFS 85 L/S)
  - SEDIMENT STORAGE CAPACITY: 0.70 CU. YD. (0.53 CU. M)
3. SEDIMENT SHALL BE STORED IN A ZONE THAT IS ISOLATED FROM THE MAIN FLOW PATH.

NOT TO SCALE

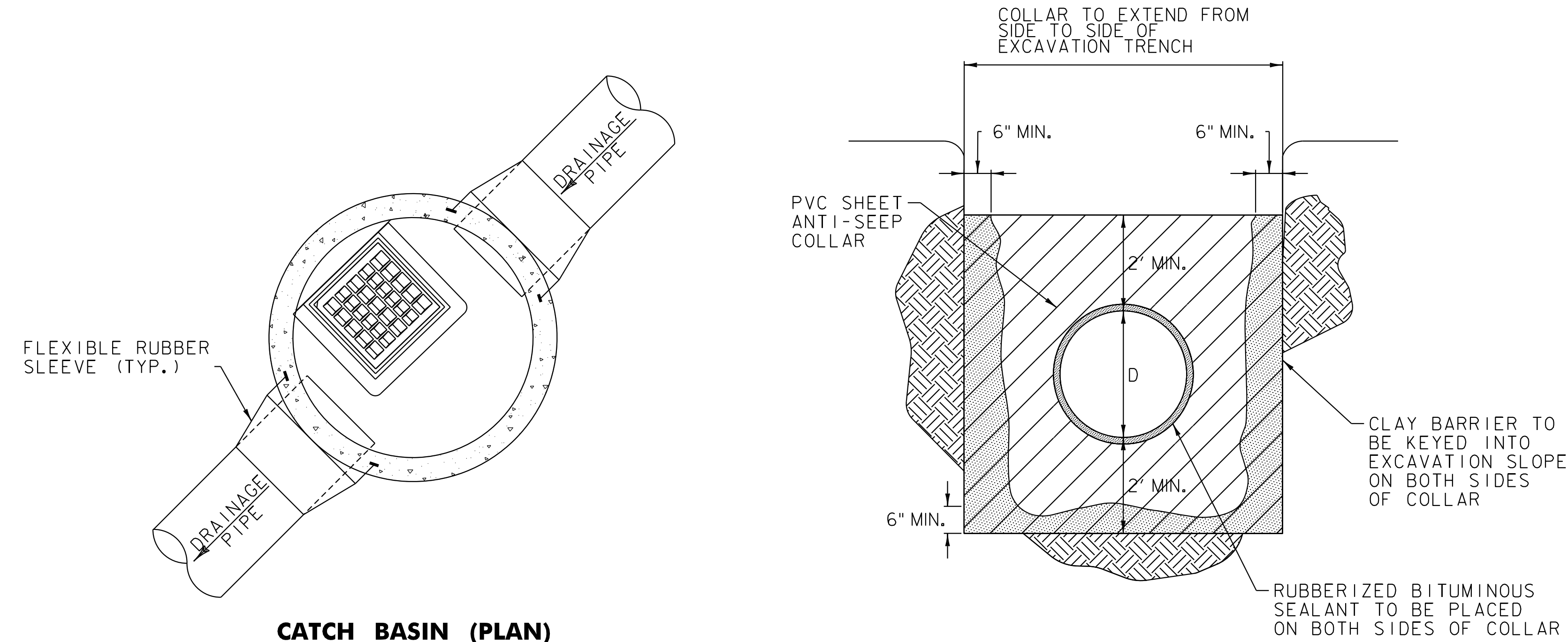


PROJECT NAME: SOUTH BURLINGTON	
PROJECT NUMBER: STP MM2I(I)	
FILE NAME: zSTP_MM2I(I).typ.dgn	PLOT DATE: 1/6/2022
PROJECT LEADER: P. SHEDD	DRAWN BY: A. VOMACKA
DESIGNED BY: A. VOMACKA	CHECKED BY: K. HAYDEN
PRE-TREATMENT CHAMBER DETAIL SHEET	SHEET 7 OF 9

ADJUST TO GRADE WITH PRECAST CONCRETE RINGS. PRECAST CONCRETE RINGS TO BE INCLUDED IN THE UNIT BID PRICE FOR PRECAST REINFORCED CONCRETE CATCH BASIN



**TYPICAL PRECAST CATCH BASIN OR MANHOLE**



**ANTI-SEEP COLLAR DETAIL**

**ANTI-SEEP COLLAR NOTES**

1. OPENING IN PVC SHEET FOR PIPE TO BE CUT TO ALLOW NO MORE THAN 1/4" SPACE BETWEEN COLLAR AND PIPE.
2. ALL MATERIALS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. ENGINEER TO BE ONSITE DURING SINSTALLATION OF ANTI-SEEP COLLARS.

**PRECAST REINFORCED CONCRETE CATCH BASIN NOTES**

1. PRECAST CONCRETE SECTIONS SHALL CONFORM TO SUBSECTION 705.04 OF THE STANDARD SPECIFICATIONS.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH: 5,000 PSI AT 28-DAYS.
3. STEEL REINFORCING SHALL CONFORM TO ASTM A185 OR A82 FOR HS-25 LOADING.
4. FACE OF PIPE SHALL NOT PROJECT MORE THAN TWO INCHES OR LESS THAN 1 INCH FROM INSIDE WALL OF STRUCTURE.
5. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF OUTSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN THREE INCHES TO JOINTS.
6. FITTING FRAME TO FINAL GRADE MAY BE DONE WITH PRECAST CONCRETE GRADE RINGS OF APPROPRIATE THICKNESS (THREE COURSES MAX.).
7. FLAT SLAB TOPS SHALL BE USED FOR ALL CATCH BASINS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. THE CONTRACTOR SHALL VERIFY ALL PIPE INVERTS AND PENETRATION ANGLES PRIOR TO PRECASTING.
9. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT AND BE ASSEMBLED USING A BUTYL RUBBER OR APPROVED EQUAL SEALANT.
10. PROVIDE FLEXIBLE RUBBER SLEEVES CONFORMING TO ASTM C-923, RESILIENT, OF SIZE REQUIRED, FOR EACH PIPE CONNECTING TO STRUCTURE. SLEEVES SHALL BE CAST INTO PRECAST STUCTURE BY THE MANUFACTURER FOR ALL PIPE PENETRATIONS.
11. PAYMENT FOR INSTALLATION OF THE CATCH BASINS SHALL BE MADE UNDER ITEM 604.20 PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE.
12. DEPTH AS SHOWN ON THE DRAINAGE DETAIL SHEET IS DEFINED AS THE VERTICAL DISTANCE BETWEEN RIM ELEVATION AND THE BOTTOM OF SUMP.
13. MANHOLE STEPS SHALL BE 14" WIDE STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC AND SHALL BE CAST INTO MANHOLE SECTIONS BY THE PRECAST CONCRETE MANUFACTURER. MANHOLE STEPS IN THE RISER SHALL ALIGN WITH THE MANHOLE STEPS IN BASE OF THE STRUCTURE.

NOT TO SCALE



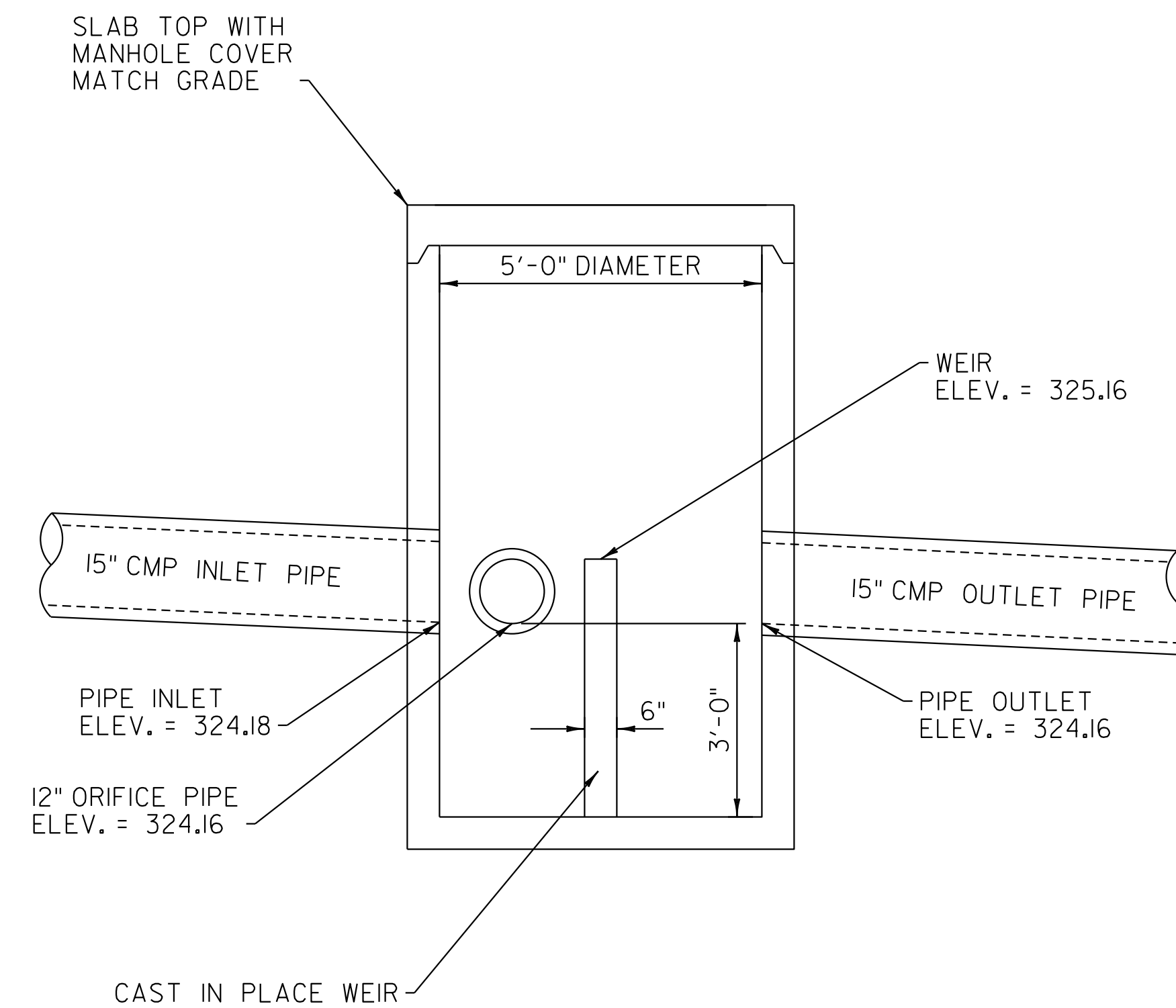
PROJECT NAME: SOUTH BURLINGTON

PROJECT NUMBER: STP MM2I(I)

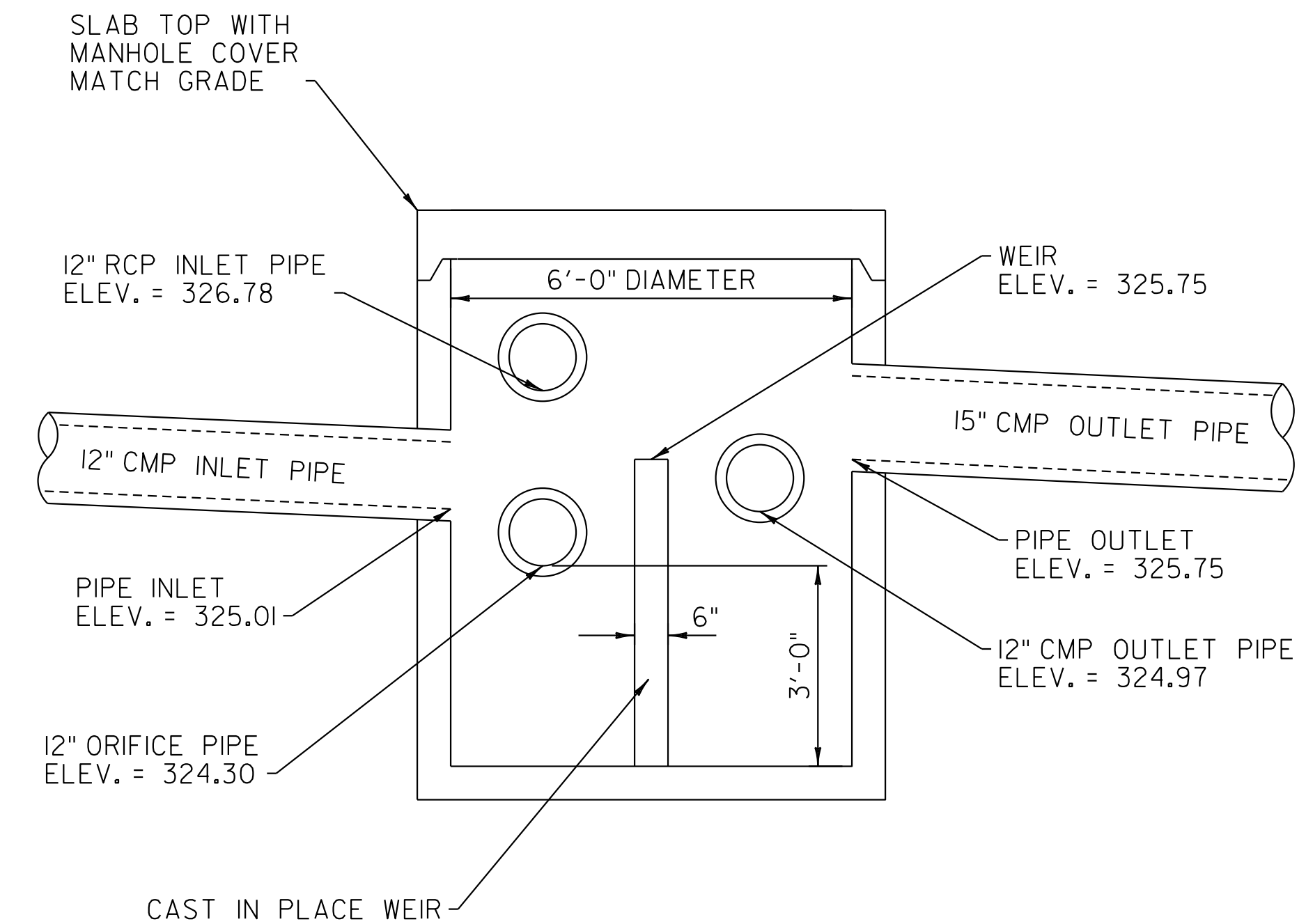
FILE NAME: zSTP MM2I(I)+yp.dgn  
PROJECT LEADER: P. SHEDD  
DESIGNED BY: A. VOMACKA  
DETAIL SHEET I

PLOT DATE: 1/6/2022  
DRAWN BY: A. VOMACKA  
CHECKED BY: K. HAYDEN  
SHEET 8 OF 9





**DIVERSION STRUCTURE 1**



**DIVERSION STRUCTURE 2**

**GENERAL NOTES**

1. STEEL REINFORCING: PER SECTION 507 STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018  
STRENGTH: 5000 PSI @ 28 DAYS  
CONSTRUCTION JOINT: SEALED WITH 1" DIAMETER BUTYL RUBBER OR EQUIVALENT
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR SPECIAL PROVISION(DIVERSION STRUCTURE) TO THE ENGINEER FOR APPROVAL.
3. ALL HARDWARE AND STEEL APPURTENANCES FOR THE OUTLET STRUCTURES SHALL BE HOT DIP GALVANIZED.

NOT TO SCALE



PROJECT NAME:	SOUTH BURLINGTON
PROJECT NUMBER:	STP MM2I(I)
FILE NAME: zSTP MM2I(I).typ.dgn	PLOT DATE: 1/6/2022
PROJECT LEADER: P. SHEDD	DRAWN BY: A. VOMACKA
DESIGNED BY: A. VOMACKA	CHECKED BY: K. HAYDEN
DETAIL SHEET 2	SHEET 9 OF 9