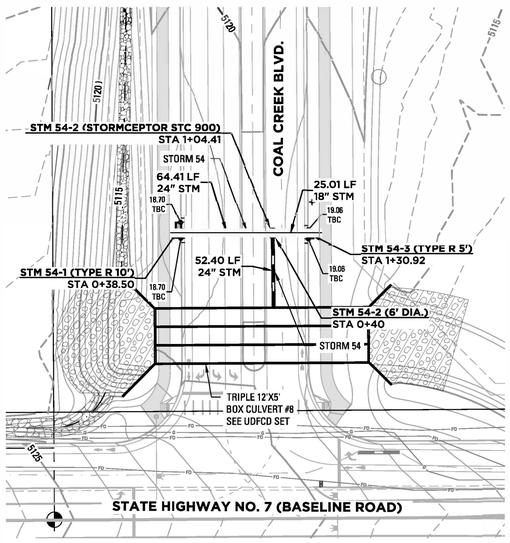
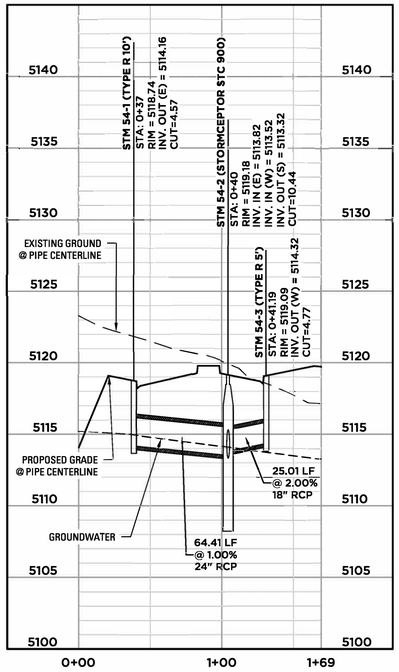
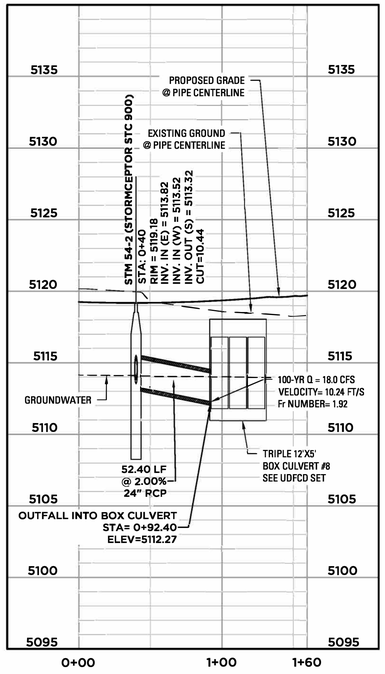


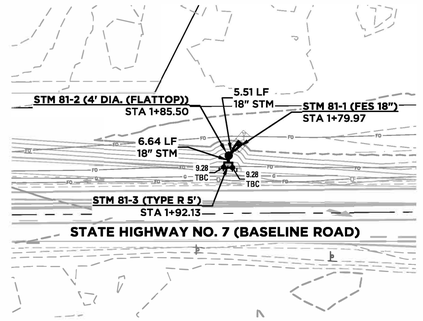
STORM 54 & 55 PLAN

STORM 54 PROFILE

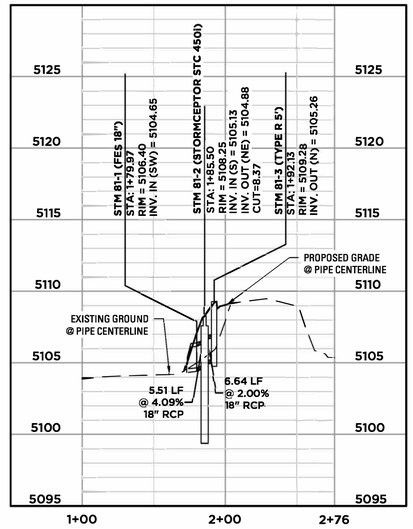


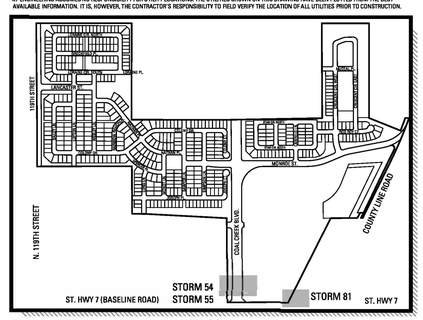
STORM 55 PROFILE





STORM 81 PLAN & PROFILE





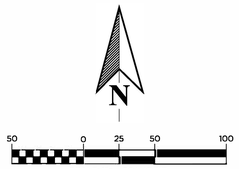
KEYMAP
NTS

PARKDALE SUBDIVISION STORMCEPTOR

OPERATIONS AND MAINTENANCE PLAN

THE TOWN OF ERIE IS RESPONSIBLE FOR INSPECTION AND MAINTENANCE

CDOT REGION 4, BOULDER COUNTY



GENERAL PROJECT INFORMATION

RECEIVING WATER: COAL CREEK

CDOT REGION 4 CONTACT: Nick Schipanski
CDOT Region 4 Environmental Project Manager
C: 970.631.3182
nicholaus.schipanski@state.co.us

MAINTAINING AGENCY: The Town of Erie Public Works Department
P: 303.926.2870
pubwks@erieco.gov

GENERAL FACILITY DESCRIPTION

THIS FACILITY CONSISTS OF TWO STORMCEPTORS UTILIZED TO TREAT RUNOFF FROM THE PAVED ACCELERATION AND DECELERATION LANES CONSTRUCTED WITH THE PARKDALE SUBDIVISION ON STATE HWY 7. STORMCEPTOR 81-2 IS WITHIN CDOT RIGHT OF WAY AND ACCEPTS FLOW FROM THE WIDENING EAST OF COAL CREEK BLVD. STORMCEPTOR 54-2 IS WITHIN THE TOWN OF ERIE RIGHT WAY AND ACCEPTS FLOW FROM THE WIDENING WEST OF COAL CREEK BLVD.

INSPECTION & MAINTENANCE FREQUENCY

POST-CONSTRUCTION INSPECTION IS REQUIRED PRIOR TO PUTTING THE STORMCEPTOR SYSTEM INTO SERVICE.

ROUTINE INSPECTIONS ARE RECOMMENDED DURING THE FIRST YEAR OF OPERATION TO ACCURATELY ASSESS THE SEDIMENT ACCUMULATION OVER TIME.

FOR THE FIRST YEAR THE STORMCEPTOR WILL BE INSPECTED A MINIMUM FOUR TIMES PER YEAR AND AFTER EVERY STORM WITH GREATER THAN ONE INCH OF RAINFALL.

INSPECTION FREQUENCY IN SUBSEQUENT YEARS IS BASED ON THE MAINTENANCE PLAN DEVELOPED IN THE FIRST YEAR.

FOR OPTIMUM PERFORMANCE, THE UNIT SHOULD BE CLEANED OUT ONCE THE SEDIMENT DEPTH REACHES 15% (8") OF THE UNIT'S TOTAL STORAGE CAPACITY. GENERALLY, THE MINIMUM CLEANING FREQUENCY IS ONCE ANNUALLY, ALTHOUGH THE FREQUENCY SHALL BE BASED ON HISTORICAL INSPECTION RESULTS.

INSPECTIONS SHOULD ALSO BE PERFORMED IMMEDIATELY AFTER AN OIL, FUEL OF OTHER CHEMICAL SPILL.

REVISIONS TO MAINTENANCE FREQUENCY:

SCHEDULED DATE	DESCRIPTION OF SERVICE

PROCEDURE, REQUIRED EQUIPMENT, MATERIALS, & RESPONSIBILITY

THE STORMCEPTOR SYSTEM IS INSPECTED AND MAINTAINED BY PROFESSIONAL VACUUM CLEANING SERVICE PROVIDERS WITH EXPERIENCE IN THE MAINTENANCE OF UNDERGROUND TANKS, SEWERS AND CATCH BASINS. FOR TYPICAL INSPECTION AND MAINTENANCE ACTIVITIES, NO SPECIFIC SUPPLEMENTAL TRAINING IS REQUIRED FOR THE STORMCEPTOR SYSTEM.

IN UNUSUAL CIRCUMSTANCES, SUCH AS IF A DAMAGED COMPONENT NEEDS REPLACEMENT OR SOME OTHER CONDITION REQUIRES MANNED ENTRY INTO THE VESSEL, CONFINED SPACE ENTRY PROCEDURES MUST BE FOLLOWED. ONLY PROFESSIONAL MAINTENANCE SERVICE PROVIDERS TRAINED IN THESE PROCEDURES SHOULD ENTER THE VESSEL. SERVICE PROVIDER COMPANIES TYPICALLY HAVE PERSONNEL WHO ARE TRAINED AND CERTIFIED IN CONFINED SPACE ENTRY PROCEDURES ACCORDING TO LOCAL, STATE, AND FEDERAL STANDARDS.

TYPICAL EQUIPMENT USED FOR INSPECTION:

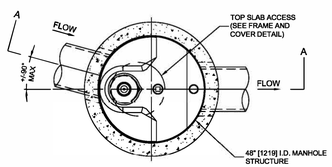
- MANHOLE ACCESS COVER LIFTING TOOL
- OIL DIPSTICK
- SEDIMENT PROBE
- FLASHLIGHT
- CAMERA
- DATA LOG
- SAFETY CONES ANO CAUTION TAPE
- HARD HAT, SAFETY SHOES, SAFETY GLASSES, AND CHEMICAL-RESISTANT GLOVES

INSPECTION PROCEDURE:

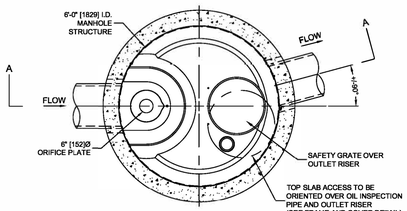
- THE STORMCEPTOR SYSTEM CAN BE INSPECTED THROUGH A STANDARD SURFACE MANHOLE ACCESS COVER.
- SEDIMENT AND OIL DEPTH INSPECTIONS ARE PERFORMED WITH A SEDIMENT PROBE AND OIL DIPSTICK. OIL DEPTH IS MEASURED THROUGH THE OIL INSPECTION PORT. SEDIMENT DEPTH CAN BE MEASURED THROUGH THE OIL INSPECTION PORT OR EXIT RISER PIPE.
- INSPECTIONS ALSO INVOLVE A VISUAL INSPECTION OF THE INTERNAL COMPONENTS OF THE SYSTEM.

MAINTENANCE RESPONSIBILITY:

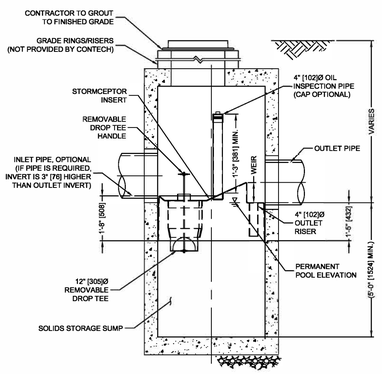
THE TOWN OF ERIE IS RESPONSIBLE FOR THE SCHEDULING OF INSPECTION AND MAINTEANCE OF STORMCEPTORS 81-2 AND STORMCEPTOR 54-2 AS SHOWN ON THIS OPERATIONS AND MAINTENANCE PLAN.



PLAN VIEW
TOP SLAB NOT SHOWN

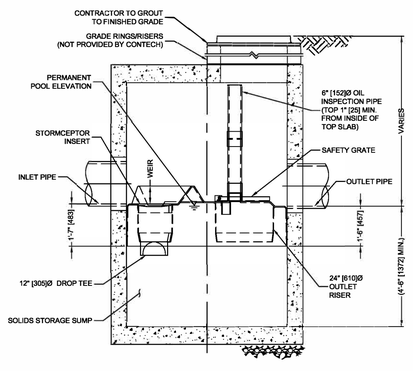


PLAN VIEW
TOP SLAB NOT SHOWN



SECTION A-A

STC 450i STORMCEPTOR STANDARD DETAIL



SECTION A-A

STC 900 STORMCEPTOR STANDARD DETAIL

Stormceptor®
FOR PATENT INFORMATION, GO TO www.ContechES.com/IP

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. STORMCEPTOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STORMCEPTOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], 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.
5. STORMCEPTOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].

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 STORMCEPTOR MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

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

STORMCEPTOR INSTALLATION
STANDARD DETAILS

J:\KBS\1532\CIVIL\EOI\BITS\STORMCEPTOR MAINTENANCE\1532-STORMCEPTOR-MAINTENANCE.dwg

KT
KT ENGINEERING
12500 W. 58TH AVE. #230
ARVADA, CO 80002
P: 720.638.5190
WWW.KTENG.NET

PREPARED FOR:
OEO, LLC

REVISIONS:

NO.	REVISION DESCRIPTION	DATE	BY
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			

STAMP:

SHEET INFO:
PARKDALE
STORM 54, 55 & 81 PLAN AND PROFILE
STORMCEPTOR OPERATION AND MAINTENANCE PLAN

PROJECT NO:
0043-1532
DRAWN BY:
KBS
DESIGNED BY:
BSS
SCALE:
1" = 50'
SUBMITTED ON:
02/01/2021

01
OF 01