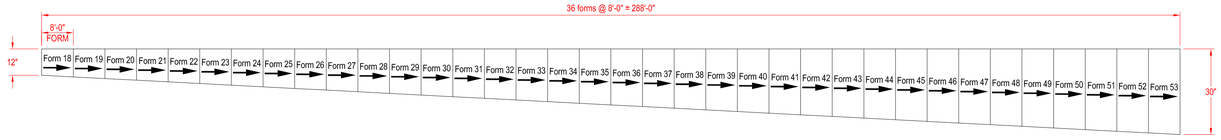
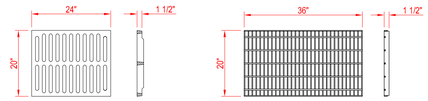


EconoDrain® Series #18
STANDARD EPS FORMS

	EPS FORM	DEPTH MIN	DEPTH MAX	FLOW GPM
SHALLOW EPS FORMS	18	12"	12 1/2"	2359
	19	12 1/2"	13"	2528
	20	13"	13 1/2"	2698
	21	13 1/2"	14"	2870
	22	14"	14 1/2"	3042
	23	14 1/2"	15"	3216
	24	15"	15 1/2"	3391
	25	15 1/2"	16"	3566
	26	16"	16 1/2"	3742
	27	16 1/2"	17"	3919
	28	17"	17 1/2"	4097
	29	17 1/2"	18"	4276
	30	18"	18 1/2"	4455
DEEP EPS FORMS	31	18 1/2"	19"	4634
	32	19"	19 1/2"	4814
	33	19 1/2"	20"	4995
	34	20"	20 1/2"	5176
	35	20 1/2"	21"	5357
	36	21"	21 1/2"	5539
	37	21 1/2"	22"	5721
	38	22"	22 1/2"	5904
	39	22 1/2"	23"	6087
	40	23"	23 1/2"	6270
	41	23 1/2"	24"	6453
	42	24"	24 1/2"	6637
	43	24 1/2"	25"	6821
	44	25"	25 1/2"	7005
	45	25 1/2"	26"	7190
	46	26	26 1/2"	7374
	47	26 1/2"	27"	7559
	48	27"	27 1/2"	7745
	49	27 1/2"	28"	7930
	50	28"	28 1/2"	8115

EPS FORM CHART



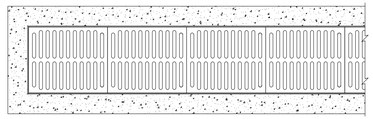
STANDARD

H-20 CAST IRON GRATE
EG-2024-CIA UNCOATED
37% OPEN AREA
88.9 SQ INCHES PER LINEAR FOOT

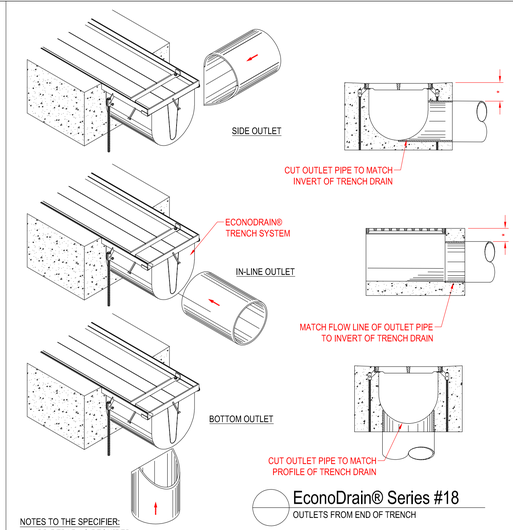
BANDED BAR GRATE
#EG-2036-HPBG - SHOP BLACK
#EG-2036-HGBG - GALVANIZED
#EG-2036-HSBG - STAINLESS
68.8% OPEN AREA
165.2 SQ INCHES PER LINEAR FOOT

LIGHT DUTY LOADING - CALL MULTIDRAIN SYSTEMS, INC. FOR HEAVY DUTY APPLICATIONS.

EconoDrain® Series #18
GRATE SELECTION



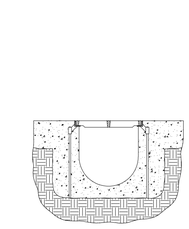
EconoDrain® Series #18
FINISHED PLAN VIEW
DO NOT SCALE



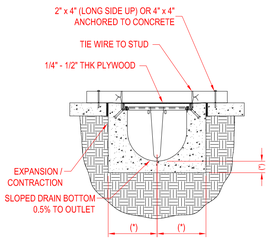
EconoDrain® Series #18
OUTLETS FROM END OF TRENCH

NOTES TO THE SPECIFIER:
1. ADD REBAR AS REQUIRED.
2. SPECIFY MINIMUM CONCRETE ENCASEMENT.
3. MINIMUM CONCRETE COVERAGE OF OUTLET PIPE MUST BE GREATER THAN 4 INCHES (LABELED WITH *).
4. FINAL CONCRETE THICKNESS PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES.

CONSTRUCTION NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. SECURE OUTLET PIPE PRIOR TO CONCRETING OPERATIONS.
3. FOR ILLUSTRATION ONLY - DO NOT SCALE

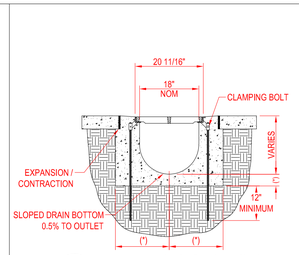


EconoDrain® Series #18
GRATE PLACEMENT ILLUSTRATION
No Locking Device Required



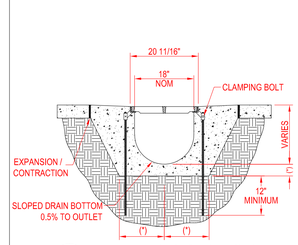
EconoDrain® Series #18
SUSPENDING FORMERS FROM EXISTING SLAB

NOTES TO THE SPECIFIER:
1. ADD REBAR AS REQUIRED
2. SPECIFY REQUIRED DIMENSIONS LABELED WITH (*) USING 6" EACH SIDE OF STEEL FRAME AND BELOW EPS FORM AS A RECOMMENDED MINIMUM.
3. SHOW TOP OF GRATE ELEVATION IN PLAN VIEW
4. EXPANSION / CONTRACTION JOINT PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES
5. STANDARD CHANNEL LENGTH IS 8'-0" (96")
6. STANDARD CHANNEL SLOPE IS 0.5%



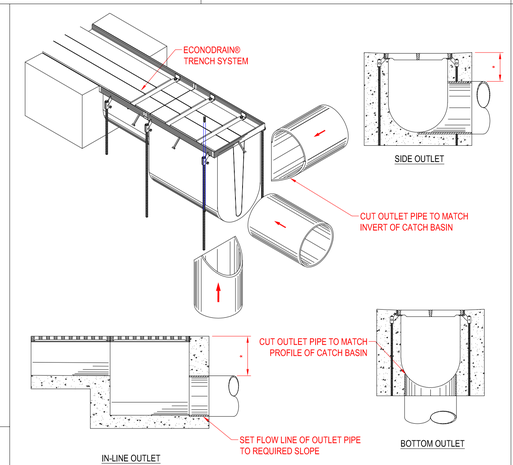
EconoDrain® Series #18
SAWCUT EXISTING SLAB INSTALLATION DETAIL

NOTES TO THE SPECIFIER:
1. ADD REBAR AS REQUIRED
2. SPECIFY REQUIRED DIMENSIONS LABELED WITH (*) USING 6" EACH SIDE OF STEEL FRAME AND BELOW EPS FORM AS A RECOMMENDED MINIMUM.
3. SHOW TOP OF GRATE ELEVATION IN PLAN VIEW
4. EXPANSION / CONTRACTION JOINT PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES
5. STANDARD CHANNEL LENGTH IS 8'-0" (96")
6. STANDARD CHANNEL SLOPE IS 0.5%



EconoDrain® Series #18
MONOLITHIC POUR INSTALLATION DETAIL

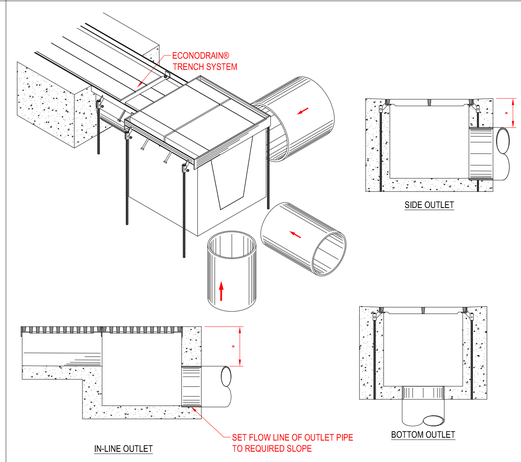
NOTES TO THE SPECIFIER:
1. ADD REBAR AS REQUIRED
2. SPECIFY REQUIRED DIMENSIONS LABELED WITH (*) USING 6" EACH SIDE OF STEEL FRAME AND BELOW EPS FORM AS A RECOMMENDED MINIMUM.
3. SHOW TOP OF GRATE ELEVATION IN PLAN VIEW
4. EXPANSION / CONTRACTION JOINT PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES
5. STANDARD CHANNEL LENGTH IS 8'-0" (96")
6. STANDARD CHANNEL SLOPE IS 0.5%



EconoDrain® Series #18
OUTLETS FROM IN-LINE CATCH BASIN

NOTES TO THE SPECIFIER:
1. ADD REBAR AS REQUIRED.
2. SPECIFY MINIMUM CONCRETE ENCASEMENT.
3. 4" MINIMUM CONCRETE COVERAGE OF OUTLET PIPE IS RECOMMENDED (LABELED WITH *).
4. FINAL CONCRETE THICKNESS PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES.

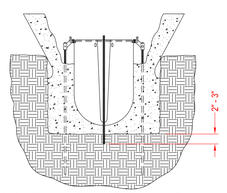
CONSTRUCTION NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. SECURE OUTLET PIPE PRIOR TO CONCRETING OPERATIONS.
3. FOR ILLUSTRATION ONLY - DO NOT SCALE DRAWINGS.



EconoDrain® Series #18
OUTLET FROM CATCH BASIN

NOTES TO THE SPECIFIER:
1. ADD REBAR AS REQUIRED.
2. SPECIFY MINIMUM CONCRETE ENCASEMENT.
3. 4" MINIMUM CONCRETE COVERAGE OF OUTLET PIPE IS RECOMMENDED (LABELED WITH *).
4. FINAL CONCRETE THICKNESS PER LOCAL ENGINEERING REGULATIONS AND GUIDELINES.

CONSTRUCTION NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. SECURE OUTLET PIPE PRIOR TO CONCRETING OPERATIONS.
3. FOR ILLUSTRATION ONLY - DO NOT SCALE.



EconoDrain® Series #18
INSTALLING FORMERS IN DEEPER PORTION OF SYSTEM

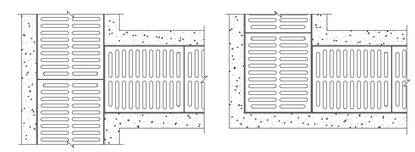
HOLES ARE PROVIDED THROUGH THE CENTER OF THE DEEPER EPS FORMS FOR INSERTION OF REBAR. THESE HOLES MAINTAIN VERTICAL ALIGNMENT DURING INITIAL CONCRETE PLACEMENT.

THE REBAR IS DRIVEN ONLY A FEW INCHES INTO THE GROUND OR SUB-BASE.

CONCRETE MUST BE FILLED ON BOTH SIDES OF THE FORM AS EVENLY AS POSSIBLE. MULTIPLE PASSES ON EITHER SIDE ARE PREFERABLE WHILE AVOIDING FILLING THE TRENCH FROM ONE SIDE.

SEE **INSTALLATION INSTRUCTIONS**, STEP 15: HOW TO POUR CONCRETE AROUND ECONODRAIN® TRENCH FORMING SYSTEM.

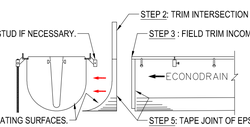
THE REBAR MUST BE REMOVED ONCE THE CONCRETE/FORM PRESSURE EQUALIZES BUT PRIOR TO THE CONCRETE SETTING UP.



STEP 1: REMOVE ANCHOR STAND OR STUD IF NECESSARY.

STEP 2: TRIM INTERSECTION EPS FORM TO THE HEIGHT OF BOTTOM FRAME.

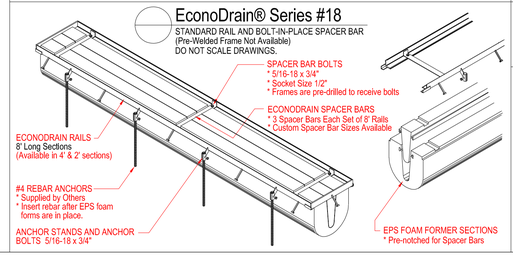
STEP 3 : FIELD TRIM INCOMING EPS FORMER AS NEEDED.



STEP 4: APPLY ADHESIVES TO MATING SURFACES.

STEP 5: TAPE JOINT OF EPS FORMERS AS NEEDED.

EconoDrain® Series #18
TEE & ELL INTERSECTION KITS



EconoDrain® Series #18
STANDARD RAIL AND BOLT-IN-PLACE SPACER BAR (Pre-Welded Frame Not Available)
DO NOT SCALE DRAWINGS.

GENERAL NOTES:
1. ALL DIMENSIONS SHOWN ARE NOMINAL.
2. THIS SYSTEM AVAILABLE ONLY WITH STANDARD RAILS AND BOLT-IN-PLACE SPACER BARS. (PRE-WELDED FRAMES NOT AVAILABLE)

EconoDrain® Series #18
ENGINEERING / CONSTRUCTION DETAIL TEMPLATE

A

File Name: ED18-DETAILS-20a