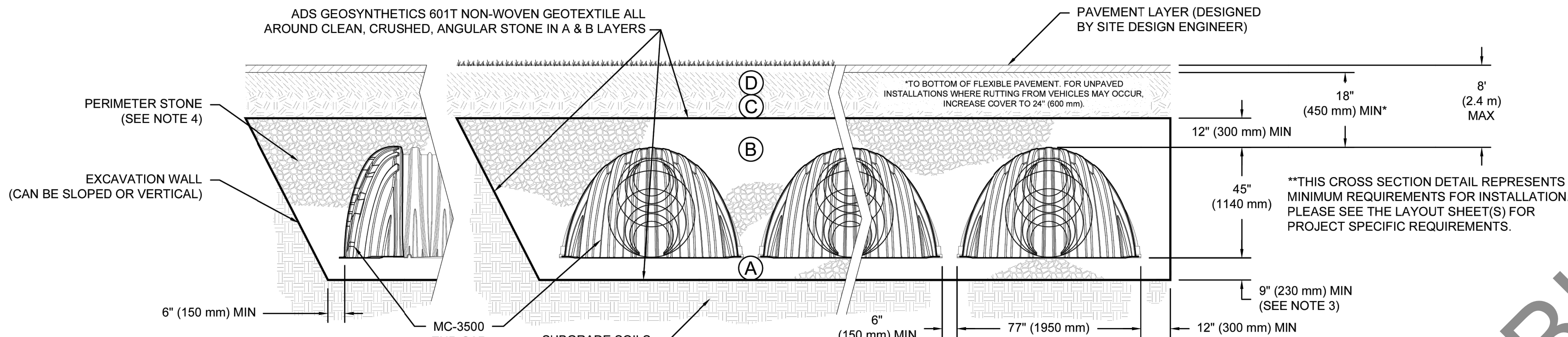


## ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

| MATERIAL LOCATION |                                                                                                                                                                                                                  | DESCRIPTION                                                                                                                                                | AASHTO MATERIAL CLASSIFICATIONS                                                                                           | COMPACTION / DENSITY REQUIREMENT                                                                                                                                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D                 | <b>FINAL FILL:</b> FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER  | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.                                            | N/A                                                                                                                       | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.                                                                                                                               |
| C                 | <b>INITIAL FILL:</b> FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.<br><br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145'<br>A-1, A-2-4, A-3<br><br>OR<br><br>AASHTO M43'<br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. |
| B                 | <b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.                                                                                              | CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE <sup>2</sup>                                                                                            | AASHTO M43'<br>3, 357, 4, 467, 5, 56, 57                                                                                  | NO COMPACTION REQUIRED.                                                                                                                                                                                                                               |
| A                 | <b>FOUNDATION STONE:</b> FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.                                                                                                           | CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE <sup>3</sup>                                                                                            | AASHTO M43'<br>3, 357, 4, 467, 5, 56, 57                                                                                  | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>                                                                                                                                                                                       |

## PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



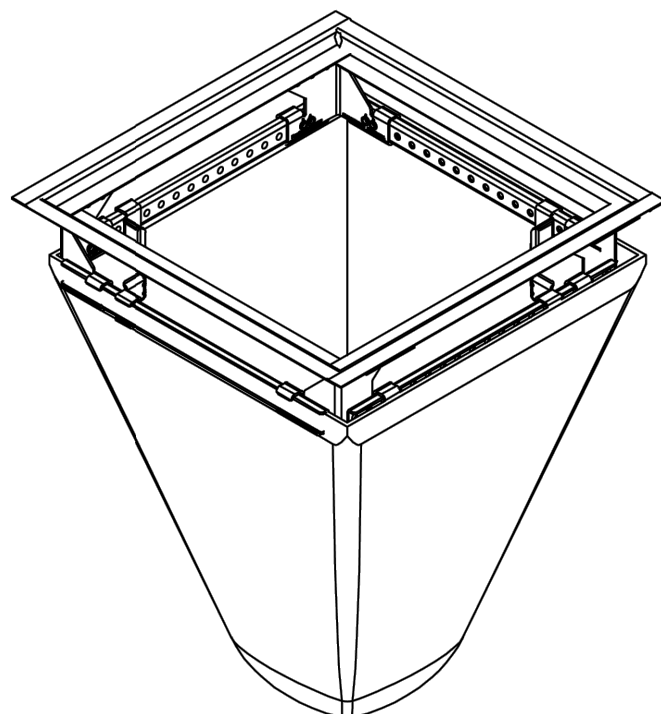
## NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT<sup>2</sup>%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

## UNDERGROUND INFILTRATION CHAMBER SYSTEM

SEE WQMP FOR FURTHER DETAILS

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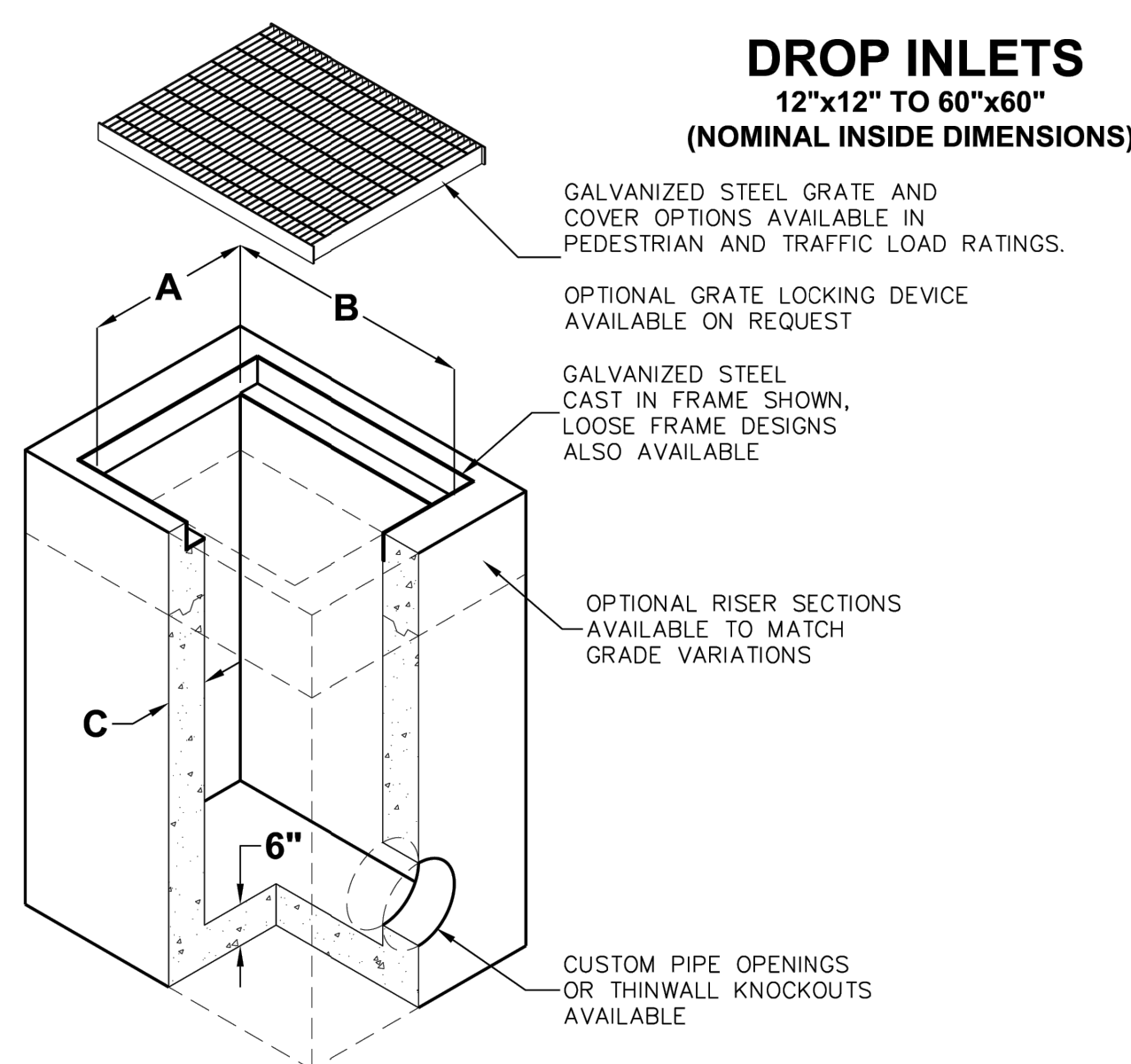
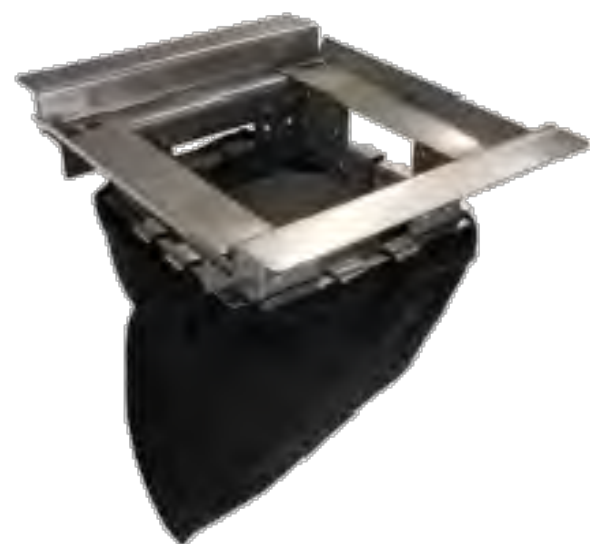
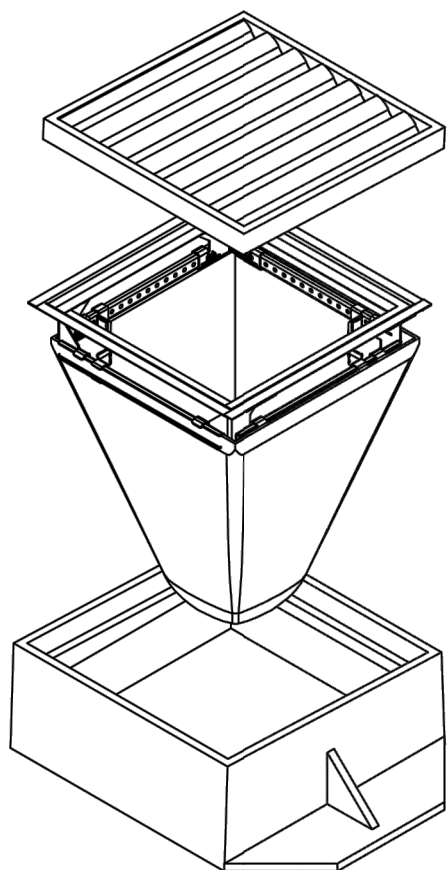
| SQUARE/RECTANGULAR INLET FILTER        |           |                                |
|----------------------------------------|-----------|--------------------------------|
| Clear Opening Size                     | Style P/N | Minimum Bypass Flow Rate (CFS) |
| Small: Up to 64" Perimeter             | 62SHD     | 2.4                            |
| Medium: 65" - 96" Perimeter            | 62MHD     | 3.5                            |
| Large: 97" - 120" Perimeter            | 62LHD     | 5.0                            |
| Extra-Large: 121" or Greater Perimeter | 62XLHD    | 7.2                            |

## NOTES:

- ALL FRAMING IS CONSTRUCTED OF 304 STAINLESS STEEL.
- TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZE DRAINAGE STRUCTURE. ADS DESIGN FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE.
- ALL FILTERS MEET ASTM D8057 SPECIFICATIONS.

ADS FLEXSTORM PURE INLET DETAIL  
FOR PRECAST CATCH BASIN

NTS

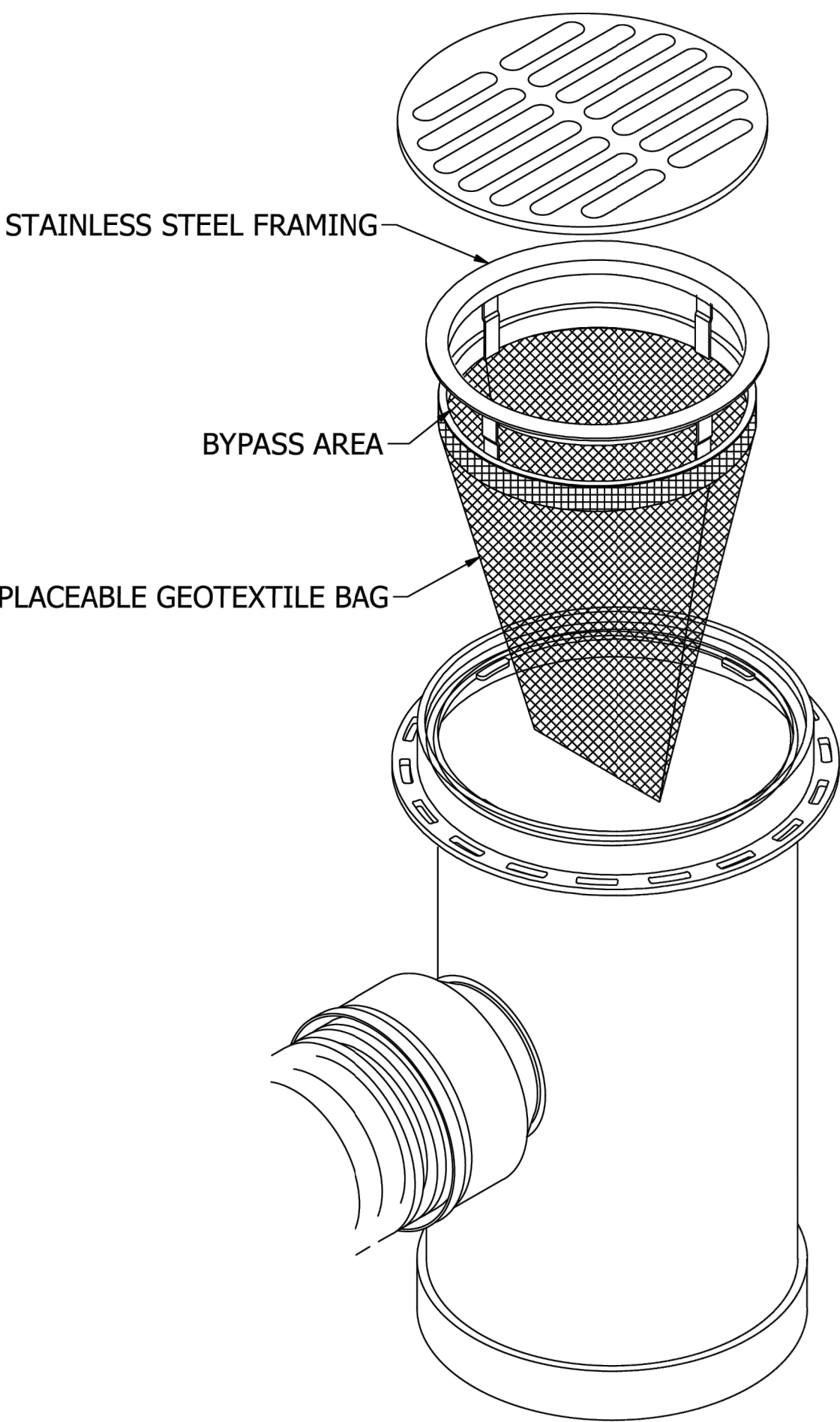


| MODEL | A  | B  | C | WEIGHT CALC - LBS.    |
|-------|----|----|---|-----------------------|
| 1212  | 12 | 12 | 4 | 208 (BASE) + 266 VF   |
| 1616  | 16 | 16 | 5 | 408 (BASE) + 480 VF   |
| 1818  | 18 | 18 | 5 | 602 (BASE) + 604 VF   |
| 2424  | 24 | 24 | 6 | 675 (BASE) + 750 VF   |
| 2436  | 24 | 36 | 6 | 900 (BASE) + 900 VF   |
| 2448  | 24 | 48 | 6 | 1500 (BASE) + 1050 VF |
| 3030  | 30 | 30 | 6 | 920 (BASE) + 900 VF   |
| 3636  | 36 | 36 | 6 | 1200 (BASE) + 1050 VF |
| 3648  | 36 | 48 | 6 | 1500 (BASE) + 1200 VF |
| 4848  | 48 | 48 | 6 | 1875 (BASE) + 1350 VF |
| 6060  | 60 | 60 | 6 | 2700 (BASE) + 1650 VF |

FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

12/20/2010  
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R2010

Jensen Precast reserves the right to make changes to product design and/or dimensions without notice. Please contact Jensen Precast whenever necessary for confirmation or advice on product design.

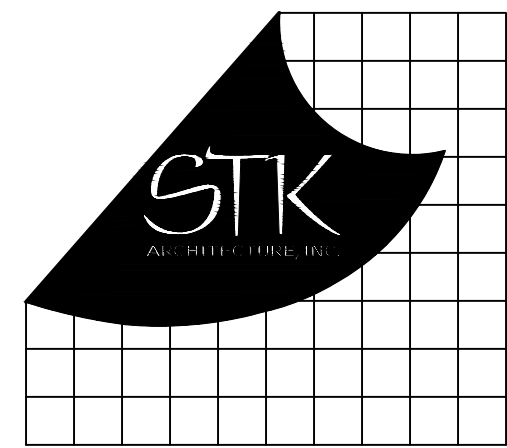
JENSEN  
PRECAST

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ADS FLEXSTORM PURE INLET DETAIL  
FOR NYLOPLAST INLET

NTS



CONSULTANT:

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F: (909) 890-0995PROJECT ADMINISTERED BY:  
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PROJECT & FACILITIES  
MANAGEMENT DEPARTMENT385 N. ARROWHEAD AVE.  
SAN BERNARDINO, CA 92415PROJECT NAME:  
SAN BERNARDINO  
COUNTY FIRE  
DEPARTMENT:  
FIRE STATION 227

PROJECT # 10.10.1202

CIP #22-105

APN: 0154-281-01

180 W. 38TH STREET  
SAN BERNARDINO,  
CA 92405

## ISSUE INFORMATION:

| DATE:    | INFORMATION:  |
|----------|---------------|
| 03-14-25 | Plan Check, 1 |
| 05-13-25 | Plan Check, 2 |

## SHEET INFORMATION:

STK PROJECT NO.: 374-193-24  
SCALE: AS NOTED  
DATE: DECEMBER 2024  
PLOT DATE:  
DRAWING NAME:

SEAL:



SHEET TITLE:

DETAILS SHEET

SHEET NO.:

C-3

SHT 3 OF 6