

06/22/2023 9:47:31 AM

### NYLOPLAST 18" DRAIN BASIN: 2818AG\_X

(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.  
 (3) VARIABLE INVERT HEIGHTS AVAILABLE ACCORDING TO PLANS/TAKE OFF  
 (4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:  
 4" - 18" FOR CORRUGATED HOPE ADS IN 1/2" MANHOLE DUAL WALL ADS/HANDOR SINGLE WALL N-12 HP, PVC SEWER EX: SCR 30, PVC DWV (EX: SCH 40), PVC CR/CR/CA, CORRUGATED & RIBBED PVC

TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 700-110-111 FOR NON TRAFFIC INSTALLATION.

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PERFORATED	WEETS 1-10	1899CGS	700-110-219
SLANTCOVER	WEETS 1-10	1899CGS	700-110-219
DUCTILE	WEETS 1-10	1899CGS	700-110-219
SMOOTH	WEETS 1-10	1899CGS	700-110-219

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### 1899CGS

APPROX. DRAIN AREA = 116.72 SQ IN  
 APPROX. WEIGHT WITH FRAME = 66.50 LBS

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PERFORATED	WEETS 1-10	1899CGS	700-110-219
SLANTCOVER	WEETS 1-10	1899CGS	700-110-219
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SMOOTH	WEETS 1-10	1899CGS	700-110-219

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SLANTCOVER	WEETS 1-10	1899CGS	700-110-219
DUCTILE	WEETS 1-10	1899CGS	700-110-219
SMOOTH	WEETS 1-10	1899CGS	700-110-219

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### NYLOPLAST 24" DRAIN BASIN: 2824AG\_X

(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.  
 (3) VARIABLE INVERT HEIGHTS AVAILABLE ACCORDING TO PLANS/TAKE OFF  
 (4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:  
 4" - 24" FOR CORRUGATED HOPE ADS IN 1/2" MANHOLE DUAL WALL ADS/HANDOR SINGLE WALL N-12 HP, PVC SEWER EX: SCR 30, PVC DWV (EX: SCH 40), PVC CR/CR/CA, CORRUGATED & RIBBED PVC

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GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PERFORATED	WEETS 1-10	2499CGS	700-110-219
SLANTCOVER	WEETS 1-10	2499CGS	700-110-219
DUCTILE	WEETS 1-10	2499CGS	700-110-219
SMOOTH	WEETS 1-10	2499CGS	700-110-219

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### 2499CGS

APPROX. DRAIN AREA = 184.80 SQ IN  
 APPROX. WEIGHT WITH FRAME = 124.00 LBS

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PERFORATED	WEETS 1-10	2499CGS	700-110-219
SLANTCOVER	WEETS 1-10	2499CGS	700-110-219
DUCTILE	WEETS 1-10	2499CGS	700-110-219
SMOOTH	WEETS 1-10	2499CGS	700-110-219

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### Full Cantilever Slide Gate

Note: Diagonal Braces can be Truss wires, Truss Rods or Tension Bars.

Project: \_\_\_\_\_ Date: \_\_\_\_\_  
 Site Location: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Drawing # CL-38

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GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PERFORATED	WEETS 1-10	1899CGS	700-110-219
SLANTCOVER	WEETS 1-10	1899CGS	700-110-219
DUCTILE	WEETS 1-10	1899CGS	700-110-219
SMOOTH	WEETS 1-10	1899CGS	700-110-219

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### Section 2721

#### Engineered Surface Drainage Products

**GENERAL**  
 PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc. or prior approved equal.

**MATERIALS**  
 The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermofforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a water-tight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F427. The pipe bell spigot shall be joined to the main body of the drain basin of catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-03. Grates and covers shall be provided painted black.

**INSTALLATION**  
 The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PERFORATED	WEETS 1-10	1899CGS	700-110-219
SLANTCOVER	WEETS 1-10	1899CGS	700-110-219
DUCTILE	WEETS 1-10	1899CGS	700-110-219
SMOOTH	WEETS 1-10	1899CGS	700-110-219

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Note: Diagonal Braces can be Truss wires, Truss Rods or Tension Bars.

Project: \_\_\_\_\_ Date: \_\_\_\_\_  
 Site Location: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Drawing # CL-38

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REVISION	DATE	DESCRIPTION

P+Z No. 22-010078  
 Approval Date 3-2-2023  
 Permit No. \_\_\_\_\_  
 Page No. C11

PROJECT TITLE  
**StorCo Self Storage  
 New Buildings and Drive  
 O'Fallon, Mo.**

LAND PLANNING • CIVIL ENGINEERING  
 4053 North St. Peters, Plwy. Ste D  
 St. Peters, MISSOURI 63304  
 Ph: (636) 477-6466

MO. CERT. OF AUTHORITY  
 FOR ENGINEERING  
 LIC. NO. 2019001202

**LDC**  
 ENGINEERING LLC.

SEAL  
 WILLIAM AUGUST HEYSE, P.E.  
 PROFESSIONAL ENGINEER C-4297

Developer  
**StorCo LLC**  
 24 O'Fallon Sq.  
 O'Fallon, Missouri 63366

Owner Information  
**Greater Midwest Builder LTD**  
 1551 Wall St. Ste. 220  
 St. Charles, Missouri 63303

City of O'Fallon Site Plan

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American Fence Association

SITE DETAILS