

Section 2722

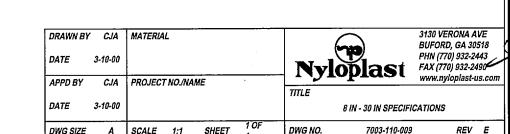
Engineered Surface Drainage Products

PVC surface drainage inlets shall be of the inline drain 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.

The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight 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 F477. The pipe bell spigot shall be joined to the inline drain body by use of a swage mechanical joint. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

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 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be 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 H-20 load rated installations, a concrete ring will 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.



FOR ADDITIONAL DETAILS REFER TO NCTCOG STANDARD DRAWINGS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION THIRD EDITION AND THE CITY OF ROCKWALL SPECIAL PROVISIONS (AVAILABLE FROM THE CITY'S WEBSITE)

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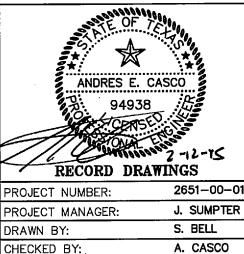
OAC SENIOR LIVING, LLC.

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mycoskie+mcinnis+associates ivil engineering surveying landscape architecture planning

ROCKWALL BY-PASS ADDN.

tbpe registration number: f - 2759 200 east abram arlington, texas 76010 817-469-1671 fax: 817-274-8757 www.mmatexas.com



04/30/2013 SSUE DATE: TO THE BEST OF OUR KNOWLEDGE MYCOSKIE MCINNIS ASSOCIATES, INC. HEREBY STATES THAT THIS PLAN IS AS-BUILT. THIS IS BASED ON SURVEY DATA, VISUAL POST-CONSTRUCTION FIELD OBSERVATIONS AND INFORMATION

PROVIDED BY THE CONTRACTOR. 02.12.15 RECORD DRAWINGS AE

REV. DATE DESCRIP.

SHEET CONTENT: DRAINAGE **DETAILS**

HECKED BY:

SHEET NO:

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