

705-UNDERDRAIN NOTES:

THE PROPOSED UNDERDRAIN PIPE WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM 705 "PIPE UNDERDRAINS FOR AIRPORTS" AS STATED ON PAGE 109 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING 4" P.E. TUBING (WRAPPED) AND UNDERDRAIN INSPECTION HOLES AT THE LOCATIONS AND TO THE GRADES SHOWN ON THE CONSTRUCTION PLANS.

705-3.3 LAYING AND INSTALLING PIPE. REVISE THIS SECTION AS FOLLOWS:

"PIPE DRAINS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. THE PIPE SHALL BE BEDDED IN THE UNDERLYING MATERIAL TO A DEPTH NOT LESS THAN 10 PERCENT OF THE EXTERNAL DIAMETER OF THE PIPE, AND WHERE TRENCHING IS REQUIRED, THE TRENCH SHALL HAVE A WIDTH OF NOT LESS 12 IN. THE BOTTOM OF THE TRENCH SHALL BE COMPACTED IN A MANNER MEETING THE APPROVAL OF THE ENGINEER.

JOINTS AND FITTINGS MAY BE ASSEMBLED WITHOUT GASKETS OR SOLVENT CEMENT IF THE JOINT IS SAND TIGHT AND THE SPIGOT ENTERS THE SOCKET NOT LESS THAN 1/3 OF THE SOCKET DEPTH FOR SOLVENT CEMENT JOINTS AND FULL-DEPTH FOR ELASTOMERIC GASKET JOINTS.

NO PIPE SHALL BE PLACED IN THE TRENCH UNTIL IT AND THE PREPARED FOUNDATION HAVE BEEN APPROVED BY THE RESIDENT ENGINEER. THE PIPE SHALL BE LAID SO THAT THE FLOWLINE WILL BE AT THE GRADE SHOWN ON THE PLANS OR ESTABLISHED BY THE RESIDENT ENGINEER. THE PERMISSIBLE MINIMUM COVER OVER A PIPE SHALL BE 6 IN.

LAYING OF PIPES SHALL COMMENCE AT THE OUTLET END AND PROCEED TOWARD THE INLET END WITH THE PIPES TRUE TO LINE AND GRADE.

THE ENDS OF THE PIPE SHALL BE CAREFULLY CLEANED BEFORE THEY ARE PLACED, AND SHALL BE PLACED TO AVOID UNNECESSARY HANDLING ON THE FOUNDATION. AS EACH LENGTH OF PIPE IS LAID, THE ENDS OF THE PIPE SHALL BE PROTECTED TO PREVENT THE ENTRANCE OF ANY MATERIAL.

LONGITUDINAL LAPS SHALL BE PLACED AT THE SIDES AND SEPARATE SECTIONS OF PIPE SHALL BE JOINED WITH TIGHTLY-DRAWN, APPROVED CONNECTING BANDS.

THE TRENCH SHALL BE BACKFILLED WITH SELECT MATERIAL, MEETING THE APPROVAL OF THE ENGINEER, PLACED IN 8 IN. LAYERS, LOOSE MEASUREMENT, AND COMPACTED TO THE ENGINEER'S SATISFACTION. THE PIPE UNDER PROPOSED PAVEMENT, PLUS 10 FT ON EITHER SIDE, WILL BE BACKFILLED WITH POROUS BACKFILL TO THE ORIGINAL GROUND ELEVATIONS OR TO THE SUBGRADE ELEVATION IF THE FILL HAS BEEN CONSTRUCTED PRIOR TO THE INSTALLATION."

705-3.6 BACKFILLING; ADD THE FOLLOWING TO THIS SECTION:

"THE EDGE DRAIN TRENCH WILL BE BACKFILLED WITH POROUS BACKFILL NO. 1 IN ACCORDANCE WITH THE DETAIL ON THE CONSTRUCTION PLANS. THE POROUS BACKFILL WILL BE CONSOLIDATED TO THE SATISFACTION OF THE RESIDENT ENGINEER TO PREVENT FUTURE SETTLEMENT."

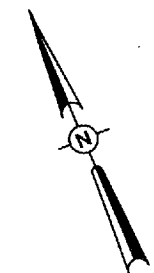
THE PROPOSED UNDERDRAIN PIPE WILL BE PAID FOR UNDER ITEMS:
 AR705411 POROUS BACKFILL NO. 1 _____ PER C.Y.
 AR705526 6" PERFORATED UNDERDRAIN W/SOCK _____ PER L.F.
 AR705530 UNDERDRAIN INSPECTION HOLE _____ PER EACH

INSPECTION HOLE NOTES:

THE INSPECTION HOLES LOCATED STA. 118+00 LT. & RT. ARE CONNECTED TO THE EXISTING RCP THAT WILL REMAIN IN PLACE. THESE INSPECTION HOLES ARE ±6 FEET TO THE TOP OF THE PIPE. THESE INSPECTION HOLES WILL BE REMOVED COMPLETELY AND THE HOLES REMAINING IN THE RCP CAPPED WITH CONCRETE TO PREVENT ANY SEEPAGE. ONCE CAPPED AND CONCRETE IS SET UP, THE HOLE WILL BE BACKFILLED AND COMPACTED TO THE SATISFACTION OF THE RESIDENT ENGINEER.

LEGEND

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- EXISTING DRAINAGE PIPE
- EXISTING 6" UNDERDRAINS
- EXISTING INSPECTION HOLE
- EXISTING FLARED END SECTION
- EXISTING UNDERDRAINS (TO BE REMOVED)
- EXISTING INSPECTION HOLE (TO BE REMOVED)
- PROPOSED UNDERDRAINS
- PROPOSED INSPECTION HOLE



0' 25' 50' 100'
 HALF SIZE SCALE: 1" = 100'
 FULL SIZE SCALE: 1" = 50'

DATE	REVISION	BY

**EFFINGHAM COUNTY
 MEMORIAL AIRPORT
 EFFINGHAM, ILLINOIS**

IL PROJ.: 1H2-3761 A.I.P. PROJ.: 3-17-0040-B11

Project No. 07A0143D_0800	11/28/07
File Name R-131DRN.DWG	11/28/07
Scale 1" = 50'	02/12/08
Date 02/12/08	
LAYOUT	KDM
DRAWN	BAK
REVIEWED	CAH



**WIDEN RUNWAY 11/29
 AND REPLACE MRL'S
 PROPOSED
 DRAINAGE PLAN
 STA. 123+00 TO STA. 109+00**

APR 08 2008 6:34 PM HAGI:000382 I:\AIRPORTS\EFFINGHAM\07A0143\CAD\SHEETS\R-131DRN.DWG - DRAIN 3