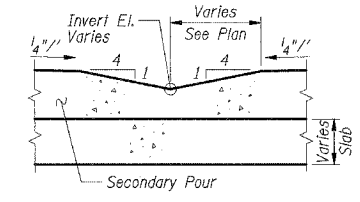
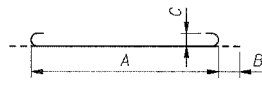


**ANNULAR GROUTING DETAIL**

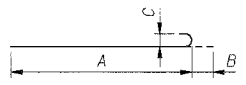


Note: Secondary pour following installation of storm sewers. Concrete Quantity included with Concrete Structures.

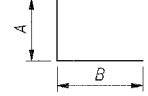
**SECONDARY POUR DETAIL**



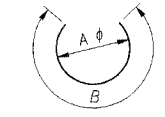
Bar	A	B	C
a351	9'-7"	11"	8"
a353	4'-6"	7"	5"
a354	4'-6"	11"	8"
a355	6'-6"	7"	5"
a356	6'-6"	11"	8"



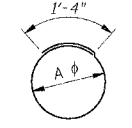
Bar	A	B	C
h367	2'-11"	6"	4"
h368	2'-11"	10"	7"
h369	3'-11"	6"	4"
h370	3'-11"	10"	7"



Bar	A	B
h358	1'-8"	1'-8"
v357	1'-5"	1'-4"
v358	4'-2"	1'-4"
v359	3'-6"	1'-4"
v360	1'-4"	1'-4"



Bar	A	B
h354	6'-10"	18'-5"
h355	6'-10"	6'-5"
h356	8'-0"	21'-6"
h357	8'-0"	7'-0"



Bar	A
h359	3'-8"
h360	2'-6"
h361	4'-3"
h362	3'-1"
h363	4'-10"
h364	3'-8"
h365	5'-6"
h366	4'-4"

**DRAINAGE STRUCTURE 6  
BAR LIST**

Bar	No.	Size	Length	Shape
a350	8	#5	9'-7"	—
a351	29	#8	11'-5"	—
a352	6	#4	9'-7"	—
a353	4	#5	5'-8"	—
a354	8	#8	6'-4"	—
h350	8	#4	10'-5"	—
h351	9	#7	10'-5"	—
h352	56	#5	10'-5"	—
h353	12	#5	9'-7"	—
h356	4	#5	21'-6"	—
h357	4	#5	7'-0"	—
h358	40	#5	3'-4"	—
h359	1	#4	12'-10"	—
h360	1	#4	9'-2"	—
h361	1	#4	14'-8"	—
h362	1	#4	11'-0"	—
h363	1	#4	16'-6"	—
h364	1	#4	12'-10"	—
h365	2	#4	18'-7"	—
h366	2	#4	15'-0"	—
h367	16	#4	3'-5"	—
h368	16	#7	3'-9"	—
h371	16	#5	6'-0"	—
h373	16	#5	4'-6"	—
v350	30	#7	8'-2"	—
v351	14	#5	8'-2"	—
v352	30	#7	4'-1"	—
v353	14	#5	3'-0"	—
v355	16	#4	2'-5"	—
v356	8	#4	2'-8"	—
v358	16	#4	5'-6"	—

**DRAINAGE STRUCTURE 9  
BAR LIST**

Bar	No.	Size	Length	Shape
a350	8	#5	9'-7"	—
a351	29	#8	11'-5"	—
a352	6	#4	9'-7"	—
a353	4	#5	5'-8"	—
a354	8	#8	6'-4"	—
h350	8	#4	10'-5"	—
h351	9	#7	10'-5"	—
h352	56	#5	10'-5"	—
h353	12	#5	9'-7"	—
h356	4	#5	21'-6"	—
h357	4	#5	7'-0"	—
h358	40	#5	3'-4"	—
h359	1	#4	12'-10"	—
h360	1	#4	9'-2"	—
h361	1	#4	14'-8"	—
h362	1	#4	11'-0"	—
h363	1	#4	16'-6"	—
h364	1	#4	12'-10"	—
h365	1	#4	18'-7"	—
h366	1	#4	15'-0"	—
h367	16	#4	3'-5"	—
h368	16	#7	3'-9"	—
h371	16	#5	6'-0"	—
h373	16	#5	4'-6"	—
v350	30	#7	8'-2"	—
v351	14	#5	8'-2"	—
v352	30	#7	4'-1"	—
v353	14	#5	3'-0"	—
v355	16	#4	2'-5"	—
v356	8	#4	2'-8"	—
v359	16	#4	4'-10"	—

**DRAINAGE STRUCTURE 22  
BAR LIST**

Bar	No.	Size	Length	Shape
a350	10	#5	9'-7"	—
a351	29	#8	11'-5"	—
a352	6	#4	9'-7"	—
a355	2	#5	7'-8"	—
a356	4	#8	8'-4"	—
h350	10	#4	10'-5"	—
h351	12	#7	10'-5"	—
h352	56	#5	10'-5"	—
h353	12	#5	9'-7"	—
h356	4	#5	21'-6"	—
h357	4	#5	7'-0"	—
h358	40	#5	3'-4"	—
h359	2	#4	12'-10"	—
h360	2	#4	9'-0"	—
h369	8	#4	4'-5"	—
h370	8	#7	4'-9"	—
h372	16	#5	4'-0"	—
h373	16	#5	4'-6"	—
v350	30	#7	8'-2"	—
v351	14	#5	8'-2"	—
v352	30	#7	4'-1"	—
v353	14	#5	3'-0"	—
v355	16	#4	2'-5"	—
v356	8	#4	2'-8"	—
v360	16	#4	2'-8"	—

**BILL OF MATERIAL**

Item	Unit	Total
Structure Excavation	Cu Yd	76
Rock Excavation for Structures	Cu Yd	5.8
Concrete Structures	Cu Yd	14.1
Reinforcement Bars	lbs	3,690
Frames, Type 1	Each	1
Lids, Type 1, Closed Lid	Each	1

**DRAINAGE STRUCTURE 25  
BAR LIST**

Bar	No.	Size	Length	Shape
a350	10	#5	9'-7"	—
a351	29	#8	11'-5"	—
a352	6	#4	9'-7"	—
a355	2	#5	7'-8"	—
a356	4	#8	8'-4"	—
h350	10	#4	10'-5"	—
h351	12	#7	10'-5"	—
h352	56	#5	10'-5"	—
h353	12	#5	9'-7"	—
h356	4	#5	21'-6"	—
h357	4	#5	7'-0"	—
h358	40	#5	3'-4"	—
h359	2	#4	12'-10"	—
h360	2	#4	9'-0"	—
h369	8	#4	4'-5"	—
h370	8	#7	4'-9"	—
h372	16	#5	4'-0"	—
h373	16	#5	4'-6"	—
v350	30	#7	8'-2"	—
v351	14	#5	8'-2"	—
v352	30	#7	4'-1"	—
v353	14	#5	3'-0"	—
v355	16	#4	2'-5"	—
v356	8	#4	2'-8"	—

**BILL OF MATERIAL**

Item	Unit	Total
Structure Excavation	Cu Yd	71
Rock Excavation for Structures	Cu Yd	5.6
Concrete Structures	Cu Yd	14.0
Reinforcement Bars	lbs	3,650
Frames, Type 1	Each	1
Lids, Type 1, Closed Lid	Each	1

**DRAINAGE STRUCTURE 37  
BAR LIST**

Bar	No.	Size	Length	Shape
a350	10	#5	9'-7"	—
a351	33	#8	11'-5"	—
a352	6	#4	9'-7"	—
a355	2	#5	7'-8"	—
a356	4	#8	8'-4"	—
h350	10	#4	10'-5"	—
h351	12	#7	10'-5"	—
h352	56	#5	10'-5"	—
h353	16	#5	9'-7"	—
h354	2	#5	18'-5"	—
h355	2	#5	6'-5"	—
h356	2	#5	21'-6"	—
h357	2	#5	7'-0"	—
h358	40	#5	3'-4"	—
h359	2	#4	12'-10"	—
h360	2	#4	9'-2"	—
h369	8	#4	4'-5"	—
h370	8	#7	4'-9"	—
h372	16	#5	4'-0"	—
h373	16	#5	4'-6"	—
v350	30	#7	8'-2"	—
v351	14	#5	8'-2"	—
v352	30	#7	4'-1"	—
v353	14	#5	3'-0"	—
v354	4	#4	8'-2"	—
v355	20	#4	2'-5"	—
v356	12	#4	2'-8"	—
v357	16	#4	2'-9"	—

**BILL OF MATERIAL**

Item	Unit	Total
Structure Excavation	Cu Yd	98
Concrete Structures	Cu Yd	14.2
Reinforcement Bars	lbs	3,880
Frames, Type 1	Each	1
Lids, Type 1, Closed Lid	Each	1

SHT. DS-7 OF DS-11

REVISIONS	
NAME	DATE

Notes:  
1. Work this Sheet with Sheets DS-1 and DS-6.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAI 55 AT FAP 338 ILLINOIS ROUTE 59  
SECTION: (26, 26HB-1 & 114) R-2

DRAINAGE STRUCTURES 6, 9, 22, 25 AND 37  
DETAILS AND BILLS OF MATERIAL

DRAWN BY: PA  
CHECKED BY: BGK

DATE: 03/14/08



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