## PRELIMINARY STORM WATER MANAGEMENT STUDY

## MCPL – LEE'S SUMMIT BRANCH REMODEL 150 NORTHWEST OLDHAM PARKWAY LEE'S SUMMIT, MISSOURI

PREPARED FOR MID-CONTINENT PUBLIC LIBRARY

> PREPARED BY OLSSON, INC. OVERLAND PARK, KANSAS

> > **JANUARY, 2021**

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OLSSON PROJECT NO. B18-0330.182

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#### TABLE OF CONTENTS

GENERAL INFORMATION	3
PROJECT LOCATION AND DESCRIPTION	3
STUDY PURPOSE	3
SOILS DESCRIPTIONS	4
METHODOLOGY	4
GENERAL CRITERIA AND REFERENCES	4
HYDROLOGIC/HYDRAULIC ANALYSES	5
EXISTING CONDITIONS ANALYSIS	5
PROPOSED CONDITIONS ANALYSIS	5
STORMWATER DETENTION REQUIREMENTS	6
STORMWATER TREATMENT REQUIREMENTS	6
CLEAN WATER ACT SECTION 404 PERMITTING REQUIREMENTS	6
FEMA/DWR PERMIT REQUIREMENTS	6
CONCLUSIONS AND RECOMMENDATIONS	6

#### TABLES

 Table 1 – Post-Development Curve Number Analysis

Table 2 – Proposed Peak Flows

#### APPENDICES

Appendix A: Maps Appendix B: FEMA Flood Classification Firms Appendix C: Soil Map

#### **GENERAL INFORMATION**

This Stormwater Management Study is being submitted on behalf of the Mid-Continent Public Library (MCPL) for the proposed remodel and expansion of the existing Lee's Summit Branch Library facility located at 150 Northwest Oldham Road in Lee's Summit, Missouri.

#### Project Location and Description

The site is located on a platted lot of land recorded as Mid-Continent Add Tract A in the Northeast ¼ of Section 1, Township 47 North, Range 32 West, in Jackson County, Lee's Summit, Missouri. Currently, the site is 1.6 acres, however, MCPL is exchanging property (approximately 0.1 acres) with the adjacent owner of the Summit Shopping to accommodate their branch expansion plans. The legal description for the adjacent property is Summit Shopping Center Lot 1 (See Exhibit 1 – Appendix A).

The Summit Shopping Center borders the library property on the north and east. Oldham Road (MoDOT Right of-Way) is to the east of the property. Residential properties border on the south. The proposed remodel plans anticipate the construction of a 6,100 sf building addition to the existing 16,500 sf. library facility. The improvements will also consist of the reconstruction of the existing parking lot, addition of a drive through service window and service area, and utility upgrades. To expand parking for the library site an agreement has been made with the owners of the Summit Shopping to construct new parking on their property.

The entirety of the existing and acquired sites are located outside of the 100-Year FEMA Floodplain (See Appendix B).

#### Study Purpose

The purpose of this study is to provide a Stormwater Management Plan for the proposed development in accordance with the American Public Works Association (APWA) *Standard Specifications and Design Criteria* Section 5600 "Storm Drainage Systems and Facilities",

APWA Manual of Best Management Practices (BMP) for Stormwater Quality, and applicable City of Lee's Summit, Missouri guidelines.

#### Soils Descriptions

Soil classifications were obtained from the Natural Resource Conservation Service's website by utilizing the Web Soil Survey feature. The site soil composition and classification are listed below:

10181 – Udarents-Urban Land-Sampsel Complex, 5 to 9 percent slopes – HSG Type C.

\*HSG – Hydrologic Soils Group

See Soils Map in Appendix C.

#### **METHODOLOGY**

#### **General Criteria and References**

Analytical and design criteria conform to those of Division V - Section 5600 – "Storm Drainage Systems and Facilities" of the Kansas City Metropolitan Chapter of the American Public Works Association's "Standard Specifications and Design Criteria". Based on these criteria's, Post-development discharge rates for the 1, 10, and 100-year storm events will be limited to provisions in section 5608.4-C1 Performance Criteria – "Comprehensive Control". Post-development discharge rates are limited to 0.5 cfs per acre for 2-Year, 2.0 cfs per acre for 10-year, and 3.0 cfs per acre for 100-year storm events. Pre and post-development flows from the site are shown below and were calculated using HEC-HMS for the 1, 10 and 100-year storm events. Existing and proposed hydrographs were calculated using the 24-hour SCS Type II rainfall distribution. Existing times of concentration were determined using Inlet Time and Travel Time equations found in Section 5602.7 of APWA Section 5600. A minimum inlet time of five minutes was utilized when calculating the times that were under five minutes. This method was also applied during the calculation of the proposed times of concentration.

#### HYDROLOGIC/HYDRAULIC ANALYSES

#### **Existing Conditions Analysis**

The existing site is currently functioning as a branch for MCPL. The Summit Shopping Center borders the library property on the north and east. Oldham Road (MoDOT Right of-Way) is to the east of the property. Residential properties border on the south. An agreement has been arranged with Summit Shopping Center to exchange property on the northern edge of the library property. The library will gain a portion of the shopping center property to enable the library to construct its expansion. The shopping center will gain ownership of the entrance. An access entrance will be granted to Library to maintain access.

Current runoff for the existing library is collected by existing storm infrastructure that drains to a ditch along Oldham Parkway and McClendon Drive on the east side of the property. Roof drains on the west side of the building daylight above ground. The runoff continues to the south and then turns to the east to an existing flume in the parking area. Approximately 4 acres to the north and west of the library drains from the existing shopping center parking across the northern edge of the library property. Almost the entirety of the studied area drains by pipe or ditch to a storm structure at the southeast corner of the site to an area inlet shown as Outfall "A" on the existing conditions exhibit. A turfed area on the south of the site drains to the backyards of the residences to the south. Approximately 0.02 acres drain directly to McClendon Drive.

Exhibit 1 in Appendix A shows the existing conditions for the site.

#### Proposed Conditions Analysis

A new 6.100 sf addition will be constructed on the north side of the existing library. The parking area will be rearranged to maximize parking for the larger building. Additional parking will also be constructed to the northeast of the proposed building on the shopping center property. This will serve as parking for both library and shopping center patrons.

City staff has noted that there has been flooding issues in the areas south of the site. In order to prevent an increase in runoff, asphaltic pavement will be removed south and west of the building to offset the increase in impervious areas for the building and new parking. Impervious area on the library site will decrease by approximately 3100 sf on the library site. Impervious area will decrease by approximately 100 sf on the shopping center site. Exhibit 2 in Appendix A shows proposed site plan.

The Stormwater Management Plan noted as Exhibit 3 in Appendix A shows the proposed improvements. The site drainage patterns will remain the same as existing. Site drainage will be improved with the addition of more efficiently placed drainage structures and enclosed storm sewer system. The decrease in impervious area will decrease runoff from the site. The system continues to drain to Outfall "A". The structure at Outfall "A" will be reconstructed as a portion of the site improvements.

Sub-Area	Area (AC)	Soil Group	Curve Number
Pavement, Buildings, Impervious	1.7	С	98
Turf (Good)	0.9	С	84

Table 1: Post-Development Curve Number Analysis

A peak flow analysis of the post-development site was conducted using HEC-HMS, the composite curve number, and rainfall and distribution information acquired from APWA section 5600. Post-development peak flows to the outfall are summarized in the Table 2. Exhibit 4 in Appendix A shows the drainage calculations for the proposed site.

#### **Table 2: Proposed Peak Flows**

Sub-Area / Outfall	Tributary Area	Q (1-Year Storm)	Q (10-Year Storm)	Q (100-Year Storm)
	(acres)	(cfs)	(cfs)	(cfs)
Outfall A	2.6	8.2	16.2	23.1

Existing offsite drainage patterns on the south side of the property and at the entrance will remain the same as pre construction.

#### Stormwater Detention Requirements

As stated previously, impervious areas will decrease on the site. Therefore, detention will not be required. The decrease in impervious area is below the 5000 sf increase threshold, and therefore exempt from the requirements Section 5601.3.

#### STORMWATER TREATMENT REQUIREMENTS

The decrease in impervious area is below the 5000 sf increase threshold, and therefore exempt from the requirements Section 5601.3

#### **CLEAN WATER ACT SECTION 404 PERMITTING REQUIREMENTS**

No jurisdictional Waters of the United States have been identified on the study site. Therefore, a Section 404 permit is not required.

#### FEMA/DWR PERMIT REQUIREMENTS

No FEMA permitting or submittals will be required on this site because there are no FEMA delineated floodplains on the site. A copy of the FIRM map for this area has been included in Appendix B.

#### CONCLUSIONS AND RECOMMENDATIONS

As outlined in the preceding report, removal of existing pavement south and west of the library building will result in a net decrease in impervious areas on the site. Therefore, runoff rates in the post-development condition will decrease, protecting downstream properties. Based on these facts and other information provided herein, we request approval of this stormwater study.

# Appendix A Map Exhibits





2.  $73.0' \pm$  East to the East end of parking stripes. 3. 99.50' Southeast to the center of a light pole on a concrete base.

CONTROL NOTES

<u>OA CPT #101:</u> Set 1/2" Rebar w/ "Olsson Survey Control Point Cap", 162' NNE of the NE corner of the Mid—Continent Public Library, 75' East of the South corner of Goodyear Tire Store. N: 1001147.681 2817007.371

ELEV. = 960.98' (NAVD'88)Reference Ties:

1. 48.50' Southwest to the Northeast edge of asphalt. 2. 48.55' Northwest to the Southwest corner of Midwest Auto Clinic (Goodyear Tire).

3. 25.30' East-Southeast to the center of a 4" Twin tree.

<u>OA CPT #102</u> Set 1/2" Rebar w∕ "Olsson Survey Control Point Cap", 229' East of the SE corner of the Mid—Continent Public Library, 28' East of the ♀ of McClendon Drive. N: 1000824.707 2817124.980

ELEV. = 947.35' (NAVD'88)Reference Ties:

3.00' West to the mid point of a back of curb. 9.97' Northeast to a found chiseled "X" cut on concrete curb.

3. 11.45' East to the center of a power pole.

Elevations Datum: NAVD 1988

<u>OA Bench Mark #1:</u> Elevation=973.75' (NAVD'88)

Set punch mark in chiseled "..." cut on the top East side of a concrete base for a light pole, First light pole East of the entrance to Genesis Gym. 205'± WNW of the NW corner of the Mid-Continent Public Library, 340' ENE of the South corner of Goodyear Tire Store.

<u>OA Bench Mark #2:</u> Elevation=952.38' (NAVD'88) Set chiseled "X" cut on top of curb on the North side of a concrete curb island, West of Equity Bank building. 213'± East of the East face of the Mid−Continent Public Library, 22' East of the ♀ of McClendon Drive.

#### UTILITY NOTES

Utilities shown have been located from field survey information, together with obtained records. The Surveyor makes no guarantee that the utilities shown comprise all such utilities in the area, either in-service or abandoned. The Surveyor further does not warrant that the utilities shown are in the "B", and were through the Missouri One–Call System. Private utilities were located by Echo GPR Services, 24564 Lackman Road, Paola, Kansas, 66071, Phone Number 913-879-2200.

Utilities were ordered to be located through Missouri One Call per One—Call Ticket #200691141. The companies listed on the ticket are: AT&T Distribution; City of Lee's Summit Sewer; City of Lee's Summit Storm Sewer; City of Lee's Summit Water; Evergy (Formerly Kansas City Power & Light); Google Fiber; Spire Missouri West and Spectrum (Formerly Time Warner Cable).

LEGEND

7	SET 1/2"x24" REBAR W/ OLSSON CONTROL CAP	٢	TREE STUMP
)	FOUND REBAR	GA	GUY ANCHOR WIRE
	FOUND CHISELED "X" CUT		BUILDING LINE
)	SET CHISELED "X" CUT	ACU	AIR CONDITIONING UNIT
FH	FIRE HYDRANT	ASPH.	ASPHALT
WV	WATER VALVE	AT&T	AMERICAN TELEPHONE &
	WATER METER	BCL	BRICK SUPPORT COLUMN
)	WATER MANHOLE	BK.	BOOK
DC	FIRE DEPARTMENT CONNECTION	BLDG.	BUILDING
R	GAS REGULATOR	BMK	BENCHMARK
<i>sv</i>	GAS VALVE	CLF	CHAIN LINK FENCE
)	SANITARY SEWER MANHOLE	CMP	CORRUGATED METAL PIPE
)	SANITARY SEWER MANHOLE	CONC.	CONCRETE
	ELECTRIC BOX	CP	CONTROL POINT
	ELECTRIC METER	CTL	CONTROL
RF	TRANSFORMER BREAKER BOX	ELEV.	ELEVATION
, ]	ELECTRIC RISER	ELR	ELECTRIC RISER
 D	ROOF DRAIN	ESMT.	EASEMENT
	STEEL PIPE BOLLARD	_ЗМ1. Г	FLOW LINE
	GAS LINE	'L FES	FLARED END SECTION
/	WATER LINE	FF	FINISH FLOOR ELEVATION
UG—	UNDERGROUND POWER LINE	FND	FOUND
ОН—	OVERHEAD POWER LINE	LSA	LANDSCAPE AREA
) —	UNDERGROUND FIBER OPTIC LINE	MHR	METAL HANDRAIL
s —	SANITARY SEWER LINE	PG.	
- D —	STORM LINE	PTP	PAGE
2	TELEPHONE PEDESTAL	PVC	PEDESTRIAN TRACTION PA
]	TELEPHONE RISER		POLYVINYL CHLORIDE PIPE
-	CABLE TELEVISION BOX	R/W	RIGHT-OF-WAY
, BCL	BRICK SUPPORT COLUMN	RBCP	REBAR WITH CAP
MLB	MAILBOX	RCP	REINFORCED CONCRETE PI
\	RADIO TOWER	TD	TELEPHONE DROP
<u>,</u>	WATER FAUCET	TEP	TELEPHONE PEDESTAL
3	GRATE INLET	TER	TELEPHONE RISER
-	SIGN	VCP	VITRIFIED CLAY PIPE
- APS	ACCESSIBLE PARKING SIGN	W/	WITH
- PP	POWER POLE	(M)	MEASURED DIMENSION -
- LPPP	LIGHT POLE/POWER POLE	(P)	PLATTED DIMENSION
ТРСВ	LIGHT POLE ON CONCRETE BASE	(D)	DEED DIMENSION
	GUY ANCHOR		FLARED END SECTION
5	AIR CONDITIONER	9	NUMBER OF PARKING STA
	DECIDUOUS TREE	Ġ.	ACCESSIBLE PARKING SPO
, } ви	BUSH	*	DENOTES OA BENCHMARK
		-	

## CERTIFICATION

---P-1

-P-C

—\_FO

I hereby certify that the within Topographic Survey is based on an actual survey made by me or under my direct supervision and that survey meets or exceeds the current standards for "Urban" Class Property Surveys, as defined by the Department of Natural Resources 10 CSR 30–2.030 General Land Surveying Requirements. I further certify that the distances shown on this Survey are grid distances, based on the State Plane Coordinate System of Missouri, Western Zone of the North American Datum of 1983; that the subdivision corner monuments and Survey control monuments were either found or set as indicated on this plat; and that I have complied with all State and Clay County statutes, ordinances, and regulations governing the practice of Surveying to the best of my professional knowledge and belief.



Timothy Blair Wiswell, MO PLS No. 2009000067 Olsson Associates LC-366 twiswell@olssonassociates.com

Summit **Shopping Center** 

Lot 2

# -L=135.33' R=207.30' 0.02 AC

C = 0.90

EXISTING 24"

CULVERT TO

REMAIN

— 3.6'x3.6' Area Inlet #50083 Top Rim=054.27' (Lid has shifted) [] Out(SVI) 24"CMP=947.47'

SET CHISELED "X" CUT ON NW BONNET BOLT OF FIRE HYDRANT ELEV.=952.38'

←FND CHISELED "X" CUT

(POOR CONDITION)

CTL SET 1/2 RBCP

-FND COTTON GIN SPINDLE

FND COTTON GIN SPINDLE

-LPPP w/ (2)

(CP-102)

TER's & TÈP

ELEV.=947.35'

Summit

Shopping Center

Lot 1

5.90 AC TO

OUTFALL "A"

Cum "C" = 0.74





UNDERGROUND FIBER OPTIC



TYPE CG-1 CONCRETE CURB &

PROPOSED CONCRETE PAVEMENT

PROPOSED HEAVY DUTY ASPHALT

PROPOSED LIGHT DUTY ASPHALT

PROPOSED MILL & OVERLAY

ADA PATH - SIDEWALKS NOT

NOT BE ADA COMPLIANT.

DELINEATED AS ADA PATHS MAY

ASPHALT PAVEMENT

ACCESSIBLE RAMP

PARKING COUNT

GUTTER

PAVEMENT

PAVEMENT







\_\_\_\_\_



• DIMENSIONS ARE TO BACK OF CURB • EDGE PARKING STALLS ARE 9.5'X17' • CENTRAL PARKING STALLS ARE 9.5'X19'

1 CONSTRUCT ADA ACCESSIBLE RAMP

- 2 ADA PARKING STALL LAYOUT
- 3 PROPOSED DROP OFF ZONE
- 4 INSTALL PAVEMENT STRIPING TYPICAL.
- 5 INSTALL CONCRETE SIDEWALK
- 6 PROPOSED DRIVE THRU WINDOW AND LANE
- 9 PROPOSED BOOK DROP-OFF
- 10 PROPOSED BOLLARD (TYPICAL)
- 11 ADDITIONAL GREEN SPACE
- 12 RELOCATED DRIVE LANE
- 13 REVISED STRIPING IN EXISTING LOT
- 14 10' ACCESS ASPHALT LANE FOR TRANSFORMER
- 16 PROPOSED CONCRETE ISLAND

SITE DATA											
	PRE (	CONSTRUC	TION	POST	CONSTRUC	CTION					
	TOTAL	LIB	SC	TOTAL	LIB	SC					
SITE AREA (AC) - ZONING CP-2											
AREA:	2.6	1.6	0.9	2.6	1.7	0.9					
S:	1.8	1.2	0.5	1.7	1.2	0.5					
	0.8	0.4	0.4	0.9	0.5	0.4					
US:	69%	76%	58%	66%	72%	56%					
<b>`</b>	31%	24%	42%	34%	28%	44%					
		BUILDING	AREA (SF)								
REA	16500	16500	0	22600	22600	0					
AX):		23%			31%						
		PAR	KING								
ACES	83	53	30*	96	68**	28					
	3	3	0	4	4***	0					
- LIBRAF	RY PROPER	TY, SC - SH	OPPING CE	NTER PRO	PERTY)						
REMOV	ED WEST C	OF EXISTING	G LIBRARY,	28 SPACES	WILL BE						
0 SF = 66	5										
ACES AF	RE REQUIRE	D PER CITY	' TABLE								



yright 2019 - Sapp Design Associates, Architects, P.C.



PERVIOUS AREA CALCULATION IN STUDY AREA

# STORMWATER MANAGEMENT PLAN



ORM SEV	VER PIPE AN	D STRUCTU	RE TABLE														1911-0-0
LE: LEES	SUMMIT LIBF						2000/03111111111111111111111111111111111										
B #: B18- ESIGN (	CONDITION	S: 10 YE	AR STOR		ENT		An and a second and a										
	TURES				NOFF C	ALCUL						DESIGN					
FROM	то	DIRECT AREA (ACRES)	TOTAL AREA (ACRES)	С	KC (K=1.00)	Tc (MIN)	FLOW TIME (MIN)	INTENSITY (IN/HR)	DESIGN Q (CFS)	DESCRIPTION	PIPE LENGTH (L.F.)	PIPE SLOPE (%)	PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT.)	V FULL (F/S)	DES
A5		0.30		0.90	0.90	5.0	-	7.35	1.98	EXISTING STRUCTURE	64349755553339933993993993993993939393939393						
A4	A4	0.43	1.36	0.75 0.89	0.75	5.0 5.0	-	7.35	7.50	30 in. HDPE 6X4 CURB INLET OF EX. PIPE	81.00	4.00	30	82.26	4.91	16.76	10.
	A3		1.79	0.78	0.78	5.0	-	7.35	10.26	30 in. HDPE	92.00	4.00	30	82.26	4.91	16.76	11.
A3	A2	0.04	2.21	0.30 0.75	0.30	5.0 5.0	-	7.35 7.35	0.09	4X4 AREA INLET OF EX. PIPE 30 in. HDPE	202.00	4.00	30	82.26	4.91	16.76	11
A2	A1	0.45	5.65	0.70 0.70	0.70	5.0 5.0	-	7.35 7.35	2.32 29.07	6X4 CURB INLET OF EX. PIPE 30 in. HDPE	27.00	4.00	30	82.26	4.91	16.76	15
A1		0.12		0.30	0.30	5.0	-	7.35	0.26	RECONS EX AREA INLET							
	A0		5.77	0.67	0.67	5.0	-	7.35	28.41	36 in. HDPE	118.00	1.60	36	84.59	7.07	11.97	10
B4		0.30		0.72	0.72	5.0	-	7.35	1.59	6x4 CURB INLET			45		4.00	5.00	
B3	B3	0.81	0.30	0.72 0.40	0.72	5.0 5.0	-	7.35	1.59 2.38	15 in. HDPE RECONS EX. AREA INLET	110.00	1.00	15	6.48	1.23	5.28	4
<b>D</b> 0	B3	0.00	1.11	0.42	0.42	5.0	-	7.35	3.43	24 in. HDPE	55.00	1.50	24	27.78	3.14	8.84	6
B2	B1	0.00	2.85	0.30 0.67	0.30	5.0 5.0	-	7.35 7.35	0.00	JUNCTION BOX 30 in. HDPE	67.00	2.40	30	63.71	4.91	12.98	10
B1	A1	0.14	2.99	0.42 0.67	0.42	5.0 5.0	-	7.35	0.43	5x5 AREA INLET 36 in. HDPE	69.00	2.40	36	103.61	7.07	14.66	10
			2.33				-	7.35			03.00	2.40		100.01	1.01		
C1	A2	0.38	0.38	0.68 0.68	0.68	5.0 5.0	-	7.35 7.35	1.90 1.90	6x4 CURB INLET 15 in. HDPE	98.00	1.00	15	6.48	1.23	5.28	4
		-	0.00											VTV	1.20	0.20	
D2	D2	0.63	0.63	0.58 0.58	0.58	5.0 5.0	-	7.35 7.35	2.69 2.69	4x4 AREA INLET 15 in. HDPE	71.00	1.00	15	6.48	1.23	5.28	5
D1		0.43		0.89	0.89	5.0	-	7.35	2.81	6x4 CURB INLET			45	0.40			
	A4		1.06	0.71	0.71	5.0	-	7.35	5.53	15 in. HDPE	47.00	1.00	15	6.48	1.23	5.28	5
E2		0.19	0.10	0.52	0.52	5.0	-	7.35	0.73	TRENCH DRAIN 15 in. HDPE	70.00	1.50	15	7.93	1.02	6.46	
E1	E1	4.55	0.19	0.33	0.33	5.0	-	7.35	0.46		79.00	1.50	15	7.93	1.23	6.46	3
		1.55		0.87	0.87	5.0	-	7.35	9.91	6x4 CURB INLET							
RM SEV	B2 VER PIPE AN	D STRUCTU	1.74 RE TABLE	0.87	0.87	5.0 5.0		7.35	9.91 10.61	18 in. HDPE	148.00	1.50	18	12.90		7.30	
DRM SEV _E: LEES B #: B18-	VER PIPE AN SUMMIT LIBF 0330	D STRUCTU RARY	RE TABLE	0.83	0.83												
DRM SEV E: LEES 3 #: B18-0 SIGN (	VER PIPE AN SUMMIT LIBF 0330 CONDITION	D STRUCTU RARY	RE TABLE	0.83	0.83			7.35				1.50					
ORM SEV E: LEES #: B18- SIGN ( STRU(	VER PIPE AN SUMMIT LIBF 0330	D STRUCTU RARY S: 100 YI DIRECT AREA	RE TABLE	0.83	0.83		- ATIONS FLOW TIME	7.35				PE DESIC PIPE SLOPE	SN PIPE DIA	Q FULL (CFS)		7.30	
ORM SEV E: LEES #: B18-0 SIGN ( STRU(	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES	D STRUCTU RARY S: 100 YI DIRECT	RE TABLE	0.83 RM E\ RU	0.83 VENT NOFF C.	5.0 ALCUI Tc	- ATIONS FLOW	7.35	10.61	18 in. HDPE		PE DESIC PIPE	GN PIPE				
RM SEV E: LEES #: B18-0 SIGN C STRUC	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30	RE TABLE	0.83 RME\ RU C 0.90 0.75	0.83 VENT NOFF C/ KC (K=1.25) 1.00 0.94	5.0 ALCUI Tc (MIN) 5.0 5.0	- ATIONS FLOW TIME (MIN) - -	7.35 INTENSITY (IN/HR) 10.32 10.32	10.61 DESIGN Q (CFS) 3.10 13.16	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE		PE DESIC PIPE SLOPE	SN PIPE DIA				
RM SEV E: LEES #: B18-0 SIGN C SIGN C STRUC ROM A5 A4	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43	RE TABLE EAR STO TOTAL AREA (ACRES)	0.83 RME\ RU C 0.90 0.75 0.89 0.78	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98	5.0 ALCUI Tc (MIN) 5.0 5.0 5.0 5.0 5.0	- ATIONS FLOW TIME (MIN) -	7.35 INTENSITY (IN/HR) 10.32 10.32 10.32 10.32	10.61 DESIGN Q (CFS) 3.10 13.16 4.94 18.01	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE	PIPE LENGTH (L.F.)	PE DESIC PIPE SLOPE (%)	<b>GN</b> PIPE DIA (IN)	Q FULL (CFS)	PIPE AREA (SQ.FT.)	V FULL (F/S)	
ORM SEV E: LEES #: B18-0 SIGN ( STRU(	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO TO	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30	RE TABLE EAR STO TOTAL AREA (ACRES) 1.36	0.83 <b>RME\</b> <b>RU</b> 0.90 0.75 0.89 0.78 0.30	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11	5.0 ALCUI Tc (MIN) 5.0 5.0 5.0	- ATIONS FLOW TIME (MIN) - - - -	7.35 INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32	10.61 DESIGN Q (CFS) 3.10 13.16 4.94 18.01 0.15	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE	PIPE LENGTH (L.F.) 81.00 92.00	PE DESIC PIPE SLOPE (%) 4.00	SN PIPE DIA (IN) 30	Q FULL (CFS) 82.26 82.26	PIPE AREA (SQ.FT.) 4.91	V FULL (F/S) 16.76	
RM SEV E: LEES #: B18-0 SIGN C SIGN C STRUC ROM A5 A4	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3 A2	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21	0.83 <b>RME\</b> <b>RU</b> 0.90 0.75 0.89 0.78 0.30 0.75 0.30 0.75 0.70	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.88	5.0 ALCUI Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- ATIONS FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	7.35 INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	10.61 DESIGN Q (CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00	PE DESIC PIPE SLOPE (%) 4.00 4.00	<b>SN</b> PIPE DIA (IN) 30 30 30	Q FULL (CFS) 82.26 82.26 82.26	PIPE AREA (SQ.FT.) 4.91 4.91 4.91	V FULL (F/S) 16.76 16.76	
RM SEV E: LEES #: B18-0 SIGN C SIGN C STRUC ROM A5 A4 A3	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43	RE TABLE EAR STO TOTAL AREA (ACRES) 1.36 1.79	0.83 <b>RME\</b> <b>RU</b> 0.90 0.75 0.89 0.78 0.30 0.75	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94	5.0 ALCUI Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- ATIONS FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	7.35 INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32	10.61 DESIGN Q (CFS) 3.10 13.16 4.94 18.01 0.15 21.38	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00	PE DESIC PIPE SLOPE (%) 4.00 4.00	SN PIPE DIA (IN) 30 30	Q FULL (CFS) 82.26 82.26	PIPE AREA (SQ.FT.) 4.91 4.91	V FULL (F/S) 16.76	
RM SEV E: LEES #: B18-0 SIGN C SIGN C STRUC ROM A5 A4 A3 A2	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3 A2	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21	0.83 <b>RME\</b> <b>RU</b> <b>C</b> 0.90 0.75 0.89 0.75 0.89 0.78 0.30 0.75 0.70 0.70	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.38 0.94 0.88 0.88	5.0 ALCUI Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- ATIONS FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	7.35 INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	10.61 DESIGN Q (CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00	PE DESIC PIPE SLOPE (%) 4.00 4.00	<b>SN</b> PIPE DIA (IN) 30 30 30	Q FULL (CFS) 82.26 82.26 82.26	PIPE AREA (SQ.FT.) 4.91 4.91 4.91	V FULL (F/S) 16.76 16.76	
RM SEV E: LEES #: B18-0 SIGN C SIGN C STRUC ROM A5 A4 A3 A2 A1	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3 A2 A1 A0	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43	RE TABLE EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77	0.83 <b>RME</b> <b>RU</b> <b>C</b> 0.90 0.75 0.89 0.75 0.89 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	5.0 ALCUI TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- - - - - - - - - - - - - - - - - - -	7.35 INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	10.61 DESIGN Q (CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46 49.87 2.79	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 1118.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76	
RM SEV E: LEES #: B18-0 SIGN C STRUC ROM A5 A4 A3 A2 A1 B4	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3 A2 A1	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.12 0.12	RE TABLE EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65	0.83 <b>RME</b> <b>RU</b> <b>C</b> 0.90 0.75 0.89 0.75 0.89 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.72 0.72	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.38 0.94 0.88 0.38 0.88 0.38 0.88 0.38 0.38 0.38	5.0 <b>ALCUI</b> TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- - - - - - - - - - - - - - - - - - -	7.35 7.35 INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	10.61 10.61 DESIGN Q (CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46 49.87 2.79 2.79 2.79	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 27.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91	V FULL (F/S) 16.76 16.76 16.76	
RM SEV E: LEES #: B18-0 SIGN 0 STRU0 ROM A5 A4 A3 A2 A1 B4 B3	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3 A2 A1 A0	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.43 0.43 0.43	RE TABLE EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77	0.83 <b>RME</b> <b>R</b> <b>C</b> 0.90 0.75 0.89 0.75 0.89 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.72 0.40 0.42	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.38 0.38 0.38 0.38 0.38 0.84 0.88 0.88 0.38 0.38 0.94 0.90 0.90 0.90 0.50 0.50 0.53	5.0 ALCUI Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- - - - - - - - - - - - - - - - - - -	7.35 <b>INTENSITY</b> (IN/HR) 10.32 10.	10.61 10.61 DESIGN Q (CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46 49.87 2.79 2.79 2.79 4.18 6.01	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 1118.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76	
RM SEV E: LEES #: B18-0 SIGN C STRUC ROM A5 A4 A3 A2 A1 B4	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3 A2 A1 A1 A0 B3	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.12 0.12	RE TABLE <b>EAR STO</b> TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30	0.83 RME\ RU C 0.90 0.75 0.89 0.75 0.89 0.75 0.70 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.72 0.40	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.88 0.38 0.94 0.88 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38	5.0 ALCUI TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- - - - - - - - - - - - - - - - - - -	7.35 7.35 INTENSITY (IN/HR) 10.32	10.61 10.61 DESIGN Q (CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46 49.87 2.79 2.79 2.79 4.18 6.01 0.00	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 15 in. HDPE RECONS EX. AREA INLET	PIPE LENGTH (L.F.) 92.00 92.00 202.00 202.00 118.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30 15	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 4.91 7.07 1.23	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76 16.76 5.28 8.84	DE V 12 12 12 12 12 12 12 12 12 12 12 12 12
RM SEV E: LEES #: B18-0 SIGN C SIGN C STRUC ROM A5 A4 A3 A2 A1 B4 B3	VER PIPE AN SUMMIT LIBF 0330 CONDITION TO A4 A3 A2 A1 A1 A1 A1 B3 B3 B3 B1	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.43 0.43 0.43	RE TABLE <b>EAR STO</b> TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85	0.83 0.83 <b>RME</b> <b>R</b> 0.90 0.75 0.90 0.75 0.89 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.72 0.72 0.40 0.42 0.30 0.67 0.42	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.98 0.38 0.94 0.88 0.38 0.94 0.88 0.38 0.94 0.90 0.90 0.90 0.50 0.53 0.38 0.84 0.84 0.53	5.0 <b>ALCUI</b> TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- - - - - - - - - - - - - - - - - - -	7.35 INTENSITY (IN/HR) 10.32	10.61 10.61 10.61 10.61 10 10 10 10 10 10 10 10 10 1	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE RECONS EX. AREA INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET	PIPE LENGTH (L.F.) 92.00 92.00 202.00 202.00 118.00 118.00 1110.00 555.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.50 2.40	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 7.07 1.23 3.14 4.91	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76 16.76 5.28 8.84 8.84	DE V ( 12 12 12 12 12 12 12 12 12 12
RM SEV E: LEES #: B18-0 SIGN C SIGN C STRUC A1 A2 A1 B4 B3 B2 B1	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3 A2 A1 A1 A0 B3 B3 B3	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.45 0.12 0.12 0.30 0.30 0.81 0.81	RE TABLE <b>EAR STO</b> TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11	0.83 0.83 0.75 0.90 0.75 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.72	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.50 0.53 0.38 0.38 0.38 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.38 0.50 0.53 0.38 0.50 0.50 0.53 0.53 0.53 0.53 0.53 0.54 0.53 0.54 0.53 0.54 0.53 0.54 0.53 0.54 0.54 0.553 0.54 0.553 0.54 0.553 0.54 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.553 0.584 0.555 0.	5.0 <b>ALCUI</b> TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- - - - - - - - - - - - - - - - - - -	7.35 7.35 INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	10.61 10.61 10.61 10.61 10 10 10 10 10 10 10 10 10 1	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE	PIPE LENGTH (L.F.) 92.00 92.00 202.00 202.00 1118.00 1118.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.50	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 4.91 7.07 1.23 3.14	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76 16.76 5.28 8.84	DE: V ( 12 12 13 12 17 12 12 17 12
RM SEV E: LEES #: B18-0 SIGN 0 STRU0 ROM A5 A4 A3 A2 A1 B4 B3 B2	VER PIPE AN SUMMIT LIBF 0330 CONDITION TO A4 A3 A2 A1 A1 A1 A1 B3 B3 B3 B1	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.45 0.12 0.12 0.30 0.30 0.81	RE TABLE <b>EAR STO</b> TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85	0.83 0.83 <b>RME</b> <b>R</b> 0.90 0.75 0.90 0.75 0.89 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.72 0.72 0.40 0.42 0.30 0.67 0.42	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.98 0.38 0.94 0.88 0.38 0.94 0.88 0.38 0.94 0.90 0.90 0.90 0.50 0.53 0.38 0.84 0.84 0.53	5.0 <b>ALCUI</b> TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- - - - - - - - - - - - - - - - - - -	7.35 INTENSITY (IN/HR) 10.32	10.61 10.61 10.61 10.61 10 10 10 10 10 10 10 10 10 1	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE RECONS EX. AREA INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET	PIPE LENGTH (L.F.) 92.00 92.00 202.00 202.00 118.00 118.00 1110.00 555.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.50 2.40	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 7.07 1.23 3.14 4.91	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76 16.76 5.28 8.84 8.84	
RM SEV E: LEES #: B18-0 SIGN C SIGN C STRUC A1 A2 A1 B4 B3 B2 B1 C1	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3 A2 A1 A1 B3 B3 B3 B3 B3 B1 A1	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.45 0.45 0.12 0.12 0.30 0.30 0.12 0.12	RE TABLE <b>EAR STO</b> TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85 2.99	0.83 RME RU C 0.90 0.75 0.90 0.75 0.89 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.70 0.70 0.70 0.72 0.70 0.72 0.75 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.70 0.75 0.70 0.75 0.70 0.75 0.70 0.72 0.72 0.72 0.40 0.42 0.30 0.67 0.42 0.67 0.42 0.67 0.42 0.67 0.42 0.67 0.68 0.68 0.68	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.50 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.50 0.53 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.53 0.38 0.38 0.53 0.38 0.53 0.38 0.53 0.38 0.53 0.38 0.53 0.38 0.53 0.85 0.85 0.85 0.85	5.0 <b>ALCUI</b> TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- - - - - - - - - - - - - -	7.35         INTENSITY (IN/HR)         10.32	10.61 10.61 10.61 10.61 10 10 10 10 10 10 10 10 10 1	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX PIPE 30 in. HDPE 4X4 AREA INLET OF EX PIPE 30 in. HDPE 6X4 CURB INLET OF EX PIPE 30 in. HDPE RECONS EX AREA INLET 36 in. HDPE RECONS EX AREA INLET 15 in. HDPE RECONS EX AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE CURB INLET 36 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 92.00 202.00 202.00 118.00 118.00 55.00 67.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.60 1.50 2.40	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 6.48 6.48 6.48 6.48	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76 16.76 18.84 12.98 14.66	DE V ( 12 12 13 14 17 17 12 17 12 12 12 12
RM SEV         E: LEES         #: B18-0         SIGN C         SIGN C         STRUC         ROM         A5         A4         A3         A2         A1         B4         B3         B2         B1	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3 A2 A1 A1 B3 B3 B3 B3 B3 B1 A1	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.45 0.12 0.12 0.30 0.30 0.81 0.81	RE TABLE <b>EAR STO</b> TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85 2.99	0.83 0.83 0.73 0.90 0.75 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.70 0.70 0.72	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.53 0.38 0.53 0.84 0.53 0.85 0.	5.0 <b>ALCUI</b> TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	- - - - - - - - - - - - - - - - - - -	7.35         INTENSITY (IN/HR)         10.32	10.61 10.61 10.61 10.61 10 10 10 10 10 10 10 10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46 49.87 2.79 2.79 2.79 2.79 2.79 2.79 2.79 4.18 6.01 0.00 24.63 0.76 25.84 3.33	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE RECONS EX. AREA INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE CURB INLET 36 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 92.00 202.00 202.00 118.00 118.00 55.00 67.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.60 1.50 2.40	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 6.48 6.48 6.48 6.48	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76 16.76 18.84 12.98 14.66	
RM SEV         E: LEES         #: B18-0         SIGN C         SIGN C         STRUC         ROM         A5         A4         A3         A2         A1         B4         B3         B2         B1         C1	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TO A4 A3 A3 A2 A1 A1 B3 B3 B3 B3 B3 B1 A1 A1 A0 A1 A1 A0 A1	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.43 0.45 0.45 0.45 0.12 0.12 0.30 0.30 0.12 0.12	RE TABLE <b>EAR STO</b> TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85 2.99 0.38 0.38	0.83 <b>RME</b> <b>R</b> <b>R</b> <b>R</b> <b>R</b> <b>R</b> <b>R</b> <b>R</b> <b>R</b>	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.50 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.38 0.50 0.50 0.53 0.38 0.38 0.53 0.38 0.50 0.50 0.53 0.38 0.53 0.38 0.73 0.73 0.73	5.0 <b>ALCUI</b> TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0		7.35         INTENSITY (IN/HR)         10.32	10.61 10.61 10.61 10.61 10 10 10 10 10 10 10 10 10 1	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE RECONS EX. AREA INLET 24 in. HDPE QUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE CURB INLET 36 in. HDPE CURB INLET 36 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 92.00 202.00 202.00 1118.00 1118.00 67.00 69.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 1.60 1.60 1.60 2.40 2.40 1.00	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 6.48 6.48 103.61	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07 1.23 3.14	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76 16.76 18.84 12.98 8.84 12.98 14.66	DE: V ( 12 13 13 14 17 12 5 7 12 5 7 12 5 5
RM SEV         E: LEES         #: B18-0         SIGN C         SIGN C         A1         A2         A1         B4         B3         B2         B1         C1         D2         D1	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TURES A4 A4 A3 A2 A1 A1 B3 B3 B3 B3 B1 A1 A1 A0 A1 A1 A0 A1 A1 A0 A1 A1 A0 A1 A1 A1 A2 A1 A1 A1 A2 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.45 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	RE TABLE         TOTAL         AREA         (ACRES)         1.36         1.79         2.21         5.65         5.77         0.30         1.11         2.85         2.99         0.38         0.38	0.83 0.83 0.83 0.75 0.90 0.75 0.90 0.75 0.89 0.78 0.78 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.70 0.70 0.72	0.83 VENT NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.53 0.38 0.38 0.53 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.38 0.53 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.38 0.53 0.53 0.38 0.84 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.85 0.89 0.85 0.89 0.89 0.89 0.85 0.89 0.89 0.85 0.89 0.89 0.85 0.89 0.89 0.85 0.89 0.89 0.85 0.89 0.85 0.89 0.89 0.85	5.0 <b>ALCUI</b> TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0		7.35         INTENSITY (IN/HR)         10.32	10.61 10.61 10.61 10.61 10 10 10 10 10 10 10 10 10 1	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE CURB INLET 36 in. HDPE 6x4 CURB INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE 6x4 CURB INLET 15 in. HDPE 6x4 CURB INLET 15 in. HDPE	PIPE LENGTH (L.F.) 92.00 92.00 202.00 118.00 1118.00 1118.00 67.00 67.00 69.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 1.60 1.60 1.60 2.40 1.50 1.00 1.00	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 6.48 6.48 6.48 6.48	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07 1.23	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76 16.76 18.84 12.98 8.84 12.98 14.66	DES V (1 12 13 13 14 17 12 5. 7. 12 5. 7. 12 12 5. 5. 5.
DRM SEV         E: LEES         #: B18-0         SIGN C         SIGN C         A4         A3         A2         A1         B4         B3         B2         B1         C1         D2         D1         E2	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES TURES A4 A4 A3 A2 A1 A1 B3 B3 B3 B3 B1 A1 A1 A0 A1 A1 A0 A1 A1 A0 A1 A1 A0 A1 A1 A1 A2 A1 A1 A1 A2 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1	D STRUCTU ARY  S: 100 YI  ARY  DIRECT AREA (ACRES) 0.30  0.43  0.43  0.43  0.45  0.12  0.12  0.12  0.12  0.12  0.12  0.12  0.14  0.30  0.30  0.14  0.00  0.14  0.00  0.14  0.00  0.14  0.01  0.14  0.00  0.14  0.14  0.00  0.14  0.14  0.00 0.14  0.00  0.14  0.0	RE TABLE         TOTAL         AREA         (ACRES)         1.36         1.79         2.21         5.65         5.77         0.30         1.11         2.85         2.99         0.38         0.38	0.83 0.83 0.83 0.75 0.90 0.75 0.90 0.75 0.70 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.70 0.72 0.70 0.72 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72	0.83 0.83 0.83 0.83 0.84 0.94 1.00 0.94 1.11 0.98 0.38 0.94 0.98 0.38 0.94 0.88 0.38 0.84 0.88 0.88 0.88 0.38 0.53 0.38 0.38 0.38 0.53 0.55	5.0 <b>ALCUI</b> TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0		7.35         INTENSITY (IN/HR)         10.32	10.61 10.61 10.61 10.61 10 10 10 10 10 10 10 10 10 1	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX PIPE 30 in. HDPE 4X4 AREA INLET OF EX PIPE 30 in. HDPE 6X4 CURB INLET OF EX PIPE 30 in. HDPE 6X4 CURB INLET OF EX PIPE 30 in. HDPE RECONS EX AREA INLET 36 in. HDPE 6X4 CURB INLET 15 in. HDPE RECONS EX AREA INLET 24 in. HDPE CURB INLET 36 in. HDPE 6X4 CURB INLET 15 in. HDPE	PIPE LENGTH (L.F.) 92.00 92.00 202.00 118.00 1118.00 1118.00 67.00 67.00 69.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 2.40 1.50 1.00 1.00	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 6.48 6.48 6.48 6.48	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07 1.23	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76 16.76 18.84 12.98 8.84 12.98 14.66	8. 8. DES V (I 12 13 14 17 12 13 14 17 12 12 5. 7. 12 5. 6. 6. 4.
DRM SEV E: LEES 3 #: B18-0 SIGN C STRUC FROM A5 A4 A3 A2 A1 B4 B3 B2 B1 C1 C1	VER PIPE AN SUMMIT LIBF 0330 CONDITION TURES A4 A3 A2 A1 A1 A0 B3 B3 B3 B3 B3 B3 B3 B1 A1 A1 A0 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1	D STRUCTU RARY S: 100 YI DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43 0.45 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	RE TABLE         RE TABLE         TOTAL         AREA         (ACRES)         1.36         1.79         2.21         5.65         5.77         0.30         1.11         2.85         0.30         1.11         0.30         1.11         2.85         0.30         1.106	0.83 0.83 0.83 0.75 0.90 0.75 0.90 0.75 0.89 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.70 0.70 0.72 0.72 0.70 0.72 0.70 0.72 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.58 0.58 0.58 0.52	0.83 0.83 0.83 0.83 0.94 0.94 1.11 0.98 0.94 1.11 0.98 0.38 0.94 0.88 0.38 0.94 0.88 0.38 0.94 0.88 0.38 0.94 0.88 0.38 0.94 0.53 0.38 0.84 0.53 0.50 0.53 0.55	5.0 <b>ALCUI</b> TC (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0		7.35         INTENSITY (IN/HR)         10.32	10.61 10.61 10.61 10.61 10 10 10 10 10 10 10 10 10 1	18 in. HDPE DESCRIPTION EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE CURB INLET 24 in. HDPE GX4 CURB INLET 15 in. HDPE 6x4 CURB INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE 6x4 CURB INLET 15 in. HDPE 6x4 CURB INLET 15 in. HDPE	PIPE LENGTH (L.F.) 92.00 92.00 92.00 202.00 202.00 1118.00 1118.00 67.00 67.00 67.00	PE DESIC PIPE SLOPE (%) 4.00 4.00 4.00 1.60 1.60 1.60 1.50 2.40 1.00 1.00 1.00	<b>SN</b> PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30	Q FULL (CFS) 82.26 82.26 82.26 82.26 82.26 82.26 82.26 82.26 6.48 6.48 6.48 6.48 6.48	PIPE AREA (SQ.FT.) 4.91 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07 1.23 1.23 1.23	V FULL (F/S) 16.76 16.76 16.76 16.76 16.76 16.76 16.76 12.98 8.84 12.98 14.66 5.28 5.28	DE: V ( 12 13 14 17 12 12 12 12 12 12 5 7 12 5 5 7 7 12 5 5 5 5 6

	SUMMIT LIBF																
B #: B18-0	330 ONDITION	S. 10 VE			=NT												
STRUC				\$74700-04587400-04587400-04566-055996-04592222222222222222	In a second second second second second point of the second s	ALCUI		99999999999999999999999999999999999999			PIPE	DESIGN	99 000/000/00/00/00/00/00/00/00/00/00/00/0	99999999999999999999999999999999999999			
FROM	ТО	DIRECT AREA	TOTAL AREA	с	KC	TC	FLOW TIME			DESCRIPTION	PIPE LENGTH	PIPE SLOPE	PIPE DIA	Q FULL	PIPE AREA		
<u>^</u>		(ACRES)	(ACRES)	0.00	(K=1.00)	、 <i>,</i>	(MIN)	(IN/HR)	(CFS)		(L.F.)	(%)	(IN)	(CFS)	(SQ.FT.)	(F/S)	V (F/S
A5	A4	0.30	1.36	0.90	0.90	5.0 5.0	-	7.35	1.98 7.50	EXISTING STRUCTURE 30 in. HDPE	81.00	4.00	30	82.26	4.91	16.76	10.4
A4		0.43		0.89	0.89	5.0	-	7.35	2.81	6X4 CURB INLET OF EX. PIPE							
A3	A3	0.04	1.79	0.78	0.78	5.0 5.0	-	7.35 7.35	10.26 0.09	30 in. HDPE 4X4 AREA INLET OF EX. PIPE	92.00	4.00	30	82.26	4.91	16.76	11.4
	A2		2.21	0.75	0.75	5.0	-	7.35	12.18	30 in. HDPE	202.00	4.00	30	82.26	4.91	16.76	11.9
A2	A1	0.45	5.65	0.70	0.70	5.0 5.0	-	7.35 7.35	2.32 29.07	6X4 CURB INLET OF EX. PIPE 30 in. HDPE	27.00	4.00	30	82.26	4.91	16.76	15.28
A1	,,,,	0.12	0.00	0.30	0.30	5.0	-	7.35	0.26	RECONS EX AREA INLET	27.00	4.00		02.20	4.01	10.70	10.2
	A0		5.77	0.67	0.67	5.0	-	7.35	28.41	36 in. HDPE	118.00	1.60	36	84.59	7.07	11.97	10.7
B4		0.30		0.72	0.72	5.0	-	7.35	1.59	6x4 CURB INLET							
B3	B3	0.81	0.30	0.72	0.72	5.0 5.0	-	7.35	1.59 2.38	15 in. HDPE RECONS EX. AREA INLET	110.00	1.00	15	6.48	1.23	5.28	4.36
53	B3	0.01	1.11	0.40	0.40	5.0	-	7.35 7.35	3.43	24 in. HDPE	55.00	1.50	24	27.78	3.14	8.84	6.00
B2	D4	0.00	0.95	0.30	0.30	5.0	-	7.35	0.00		67.00	0.40	20	00.74	4.01	10.00	10.4
B1	B1	0.14	2.85	0.67 0.42	0.67 0.42	5.0 5.0	-	7.35 7.35	14.03 0.43	30 in. HDPE 5x5 AREA INLET	67.00	2.40	30	63.71	4.91	12.98	10.4
	A1		2.99	0.67	0.67	5.0	-	7.35	14.72	36 in. HDPE	69.00	2.40	36	103.61	7.07	14.66	10.3
C1		0.38		0.68	0.68	5.0	-	7.35	1.90	6x4 CURB INLET							
	A2		0.38	0.68	0.68	5.0	-	7.35	1.90	15 in. HDPE	98.00	1.00	15	6.48	1.23	5.28	4.58
D2		0.63		0.58	0.58	5.0	-	7.35	2.69	4x4 AREA INLET							
	D2		0.63	0.58	0.58	5.0	-	7.35	2.69	15 in. HDPE	71.00	1.00	15	6.48	1.23	5.28	5.02
D1	A4	0.43	1.06	0.89 0.71	0.89	5.0 5.0	-	7.35 7.35	2.81 5.53	6x4 CURB INLET 15 in. HDPE	47.00	1.00	15	6.48	1.23	5.28	5.92
			1.00	0.71	0.71	0.0		1.55	0.00		47.00	1.00		0.40	1.20	0.20	0.02
E2	E1	0.19	0.19	0.52	0.52	5.0 5.0	-	7.35 7.35	0.73 0.46	TRENCH DRAIN 15 in. HDPE	79.00	1.50	15	7.93	1.23	6.46	3.5
E1		1.55	0.19	0.33	0.33	5.0	-	7.35	9.91	6x4 CURB INLET	79.00	1.50	15	7.85	1.23	0.40	0.0
	B2		1.74	0.83	0.83	5.0	-	7.35	10.61	18 in. HDPE	148.00	1.50	18	12.90	1.77	7.30	8.14
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LE: LEES	SUMMIT LIBF		IRE TABLE														
LE: LEES B #: B18-0	SUMMIT LIBF	RARY		RMEV	/ENT												
LE: LEES B #: B18-0	SUMMIT LIBF 330 ONDITION	RARY I <b>S: 100 Y</b>	EAR STO			ALCUI					-	PEDESIC					
LE: LEES B #: B18-0 ESIGN C STRUC	SUMMIT LIBF 330 ONDITION	RARY			NOFF C. кс	Тс	ATIONS FLOW TIME	INTENSITY		DESCRIPTION		PE DESIC PIPE SLOPE	<b>SN</b> PIPE DIA		PIPE		DESIG
LE: LEES B #: B18-0 <b>ESIGN C</b> STRUC FROM	SUMMIT LIBF 330 ONDITION TURES	RARY S: 100 Y DIRECT AREA (ACRES)	E <b>AR STO</b>	RU C	NOFF C/ KC (K=1.25)	Tc (MIN)	FLOW	INTENSITY (IN/HR)	(CFS)		PIPE	PIPE	PIPE	Q FULL (CFS)			DESIC V (F/S
LE: LEES B #: B18-0 ESIGN C STRUC	SUMMIT LIBF 330 ONDITION TURES	RARY S: 100 Y DIRECT AREA	EAR STO TOTAL AREA	RU	NOFF C. кс	Тс	FLOW TIME	INTENSITY		DESCRIPTION EXISTING STRUCTURE 30 in. HDPE	PIPE LENGTH	PIPE SLOPE	PIPE DIA		AREA		
LE: LEES B #: B18-0 ESIGN C STRUC FROM	SUMMIT LIBF 330 ONDITION TURES TO A4	RARY S: 100 Y DIRECT AREA (ACRES)	EAR STO TOTAL AREA (ACRES) 1.36	RU C 0.90 0.75 0.89	NOFF C KC (K=1.25) 1.00 0.94 1.11	Tc (MIN) 5.0 5.0 5.0	FLOW TIME	INTENSITY (IN/HR) 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE	PIPE LENGTH (L.F.) 81.00	PIPE SLOPE (%) 4.00	PIPE DIA (IN) 30	(CFS) 82.26	AREA (SQ.FT.) 4.91	(F/S) 16.76	V (F/S
_E: LEES 3 #: B18-0 SIGN C STRUC FROM A5 A4	SUMMIT LIBF 330 ONDITION TURES TO	RARY DIRECT AREA (ACRES) 0.30 0.43	EAR STO TOTAL AREA (ACRES)	RU C 0.90 0.75 0.89 0.78	NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98	Tc (MIN) 5.0 5.0 5.0 5.0 5.0	FLOW TIME	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94 18.01	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE	PIPE LENGTH (L.F.)	PIPE SLOPE (%)	PIPE DIA (IN)	(CFS)	AREA (SQ.FT.)	(F/S)	V (F/-
LE: LEES B #: B18-0 ESIGN C STRUC FROM A5 A4 A3	SUMMIT LIBF 330 ONDITION TURES TO A4	RARY <b>S: 100 Y</b> DIRECT AREA (ACRES) 0.30 0.43 0.04	EAR STO TOTAL AREA (ACRES) 1.36	RU C 0.90 0.75 0.89 0.78 0.30 0.75	NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94	Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME (MIN) - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94 18.01 0.15 21.38	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE	PIPE LENGTH (L.F.) 81.00	PIPE SLOPE (%) 4.00	PIPE DIA (IN) 30	(CFS) 82.26	AREA (SQ.FT.) 4.91	(F/S) 16.76	V (F/- 12.2 13.4
LE: LEES B #: B18-0 <b>ESIGN C</b> <b>STRUC</b> FROM A5 A4	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2	RARY DIRECT AREA (ACRES) 0.30 0.43	EAR STO TOTAL AREA (ACRES) 1.36 1.79	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70	NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.88	Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME (MIN) - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00	PIPE SLOPE (%) 4.00 4.00 4.00	PIPE DIA (IN) 30 30	(CFS) 82.26 82.26 82.26	AREA (SQ.FT.) 4.91 4.91 4.91	(F/S) 16.76 16.76 16.76	V (F/ 12.2 13.4 14.0
LE: LEES 3 #: B18-0 ESIGN C STRUC FROM A5 A4 A3	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1	RARY <b>S: 100 Y</b> DIRECT AREA (ACRES) 0.30 0.43 0.04	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.30	NOFF C/ KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.88 0.88 0.88 0.38	Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME (MIN) - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET	PIPE LENGTH (L.F.) 81.00 92.00 202.00 27.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00	PIPE DIA (IN) 30 30 30 30 30	(CFS) 82.26 82.26 82.26 82.26 82.26	AREA (SQ.FT.) 4.91 4.91 4.91 4.91	(F/S) 16.76 16.76 16.76 16.76	V (F/ 12.2 13.4 14.0 17.6
LE: LEES B #: B18-0 <b>ESIGN C</b> <b>STRUC</b> FROM A5 A4 A3 A2	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2	RARY DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43	TOTAL AREA (ACRES) 1.36 1.79 2.21	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70	NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.88 0.88	Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME (MIN) - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00	PIPE SLOPE (%) 4.00 4.00 4.00	PIPE DIA (IN) 30 30 30 30	(CFS) 82.26 82.26 82.26	AREA (SQ.FT.) 4.91 4.91 4.91	(F/S) 16.76 16.76 16.76	V (F/- 12.2 13.4 14.0 17.6
LE: LEES B #: B18-0 <b>ESIGN C</b> <b>STRUC</b> FROM A5 A4 A3 A2	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1	RARY DIRECT AREA (ACRES) 0.30 0.43 0.43 0.43	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.30	NOFF C/ KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.88 0.88 0.88 0.38	Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME (MIN) - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET	PIPE LENGTH (L.F.) 81.00 92.00 202.00 27.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00	PIPE DIA (IN) 30 30 30 30 30	(CFS) 82.26 82.26 82.26 82.26 82.26	AREA (SQ.FT.) 4.91 4.91 4.91 4.91	(F/S) 16.76 16.76 16.76 16.76	V (F/ 12.2 13.4 14.0 17.6
E: LEES 3 #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>STRUC</b> FROM A5 A4 A3 A2 A1 B4	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1	RARY <b>S: 100 Y</b> DIRECT AREA (ACRES) 0.30 0.43 0.43 0.44 0.45 0.12 0.30	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.30 0.67 0.72 0.72	NOFF C/ KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.38 0.94 0.88 0.88 0.88 0.38 0.38 0.84	Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46 49.87 2.79 2.79 2.79	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 27.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00	PIPE DIA (IN) 30 30 30 30 30	(CFS) 82.26 82.26 82.26 82.26 82.26	AREA (SQ.FT.) 4.91 4.91 4.91 4.91	(F/S) 16.76 16.76 16.76 16.76	V (F/ 12.2 13.4 14.0 17.6 12.4
LE: LEES 3 #: B18-0 <b>SIGN C</b> <b>STRUC</b> FROM A5 A4 A3 A2 A1	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A0	RARY <b>S: 100 Y</b> DIRECT AREA (ACRES) 0.30 0.43 0.43 0.45 0.12	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.30 0.67	NOFF C/ KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.94 0.88 0.88 0.88 0.38 0.38 0.38	Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46 49.87 2.79	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 27.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60	PIPE DIA (IN) 30 30 30 30 30 30 30 30	(CFS) 82.26 82.26 82.26 82.26 82.26 82.26	AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07	(F/S) 16.76 16.76 16.76 16.76 11.97	V (F/ 12.2 13.4 14.0 17.6 12.4
LE: LEES B #: B18-0 ESIGN C STRUC FROM A5 A4 A3 A2 A1 B4	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A1 A0 B3 B3	RARY <b>S: 100 Y</b> DIRECT AREA (ACRES) 0.30 0.43 0.43 0.44 0.45 0.12 0.30	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.30 0.67 0.72 0.72 0.72 0.72 0.40 0.42 0.30	NOFF C/ KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.38 0.38 0.88 0.88 0.38 0.38 0.3	Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS)         3.10         13.16         4.94         18.01         0.15         21.38         4.06         51.02         0.46         49.87         2.79         2.79         4.18         6.01         0.00	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 27.00 118.00 118.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.00	PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	(CFS) 82.26 82.26 82.26 82.26 82.26 82.26 6.48 27.78	AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23 3.14	(F/S) 16.76 16.76 16.76 16.76 11.97 5.28 8.84	V (F/3 12.2 13.4 14.0 17.6 12.4 5.07 7.05
LE: LEES B #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>STRUC</b> FROM A5 A4 A3 A2 A1 B4 B3 B2	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A0 B3	RARY  S: 100 Y  DIRECT AREA (ACRES) 0.30  0.43  0.43  0.43  0.45  0.12  0.12  0.30  0.30  0.81  0.00	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30	RU C 0.90 0.75 0.89 0.78 0.70 0.70 0.70 0.70 0.70 0.70 0.70	KC         (K=1.25)         1.00         0.94         1.11         0.98         0.38         0.94         0.38         0.94         0.94         0.98         0.38         0.94         0.950         0.90         0.50         0.53         0.38         0.38	Tc (MIN)         5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS)         3.10         13.16         4.94         18.01         0.15         21.38         4.06         51.02         0.46         49.87         2.79         2.79         4.18         6.01         0.00         24.63	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 118.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60	PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 15	(CFS) 82.26 82.26 82.26 82.26 82.26 82.26 84.59 6.48	AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23	(F/S) 16.76 16.76 16.76 16.76 16.76 11.97 5.28	V (F/- 12.2 13.4 14.0 17.6 12.4 5.07
LE: LEES 3 #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>STRUC</b> FROM A5 A4 A3 A2 A1 B4 B3	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A1 A0 B3 B3	RARY  S: 100 Y  DIRECT AREA (ACRES)  0.30  0.43  0.43  0.45  0.12  0.30  0.30  0.81	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.30 0.67 0.72 0.72 0.72 0.72 0.40 0.42 0.30	NOFF C/ KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.38 0.38 0.88 0.88 0.38 0.38 0.3	Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS)         3.10         13.16         4.94         18.01         0.15         21.38         4.06         51.02         0.46         49.87         2.79         2.79         4.18         6.01         0.00	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 27.00 118.00 118.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.00	PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	(CFS) 82.26 82.26 82.26 82.26 82.26 84.59 6.48 27.78	AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23 3.14	(F/S) 16.76 16.76 16.76 16.76 11.97 5.28 8.84	V (F/ 12.2 13.4 14.0 17.6 12.4 5.0 7.0 12.1
LE: LEES 3 #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>STRUC</b> <b>A</b> 1 A3 A2 A1 B4 B3 B2 B1 C	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A1 A0 B3 B3 B3 B1	RARY  S: 100 Y  DIRECT AREA (ACRES)  0.30  0.43  0.43  0.45  0.12  0.12  0.30  0.30  0.81  0.81  0.00  0.14	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.70 0.70 0.72 0.72 0.72 0.72 0.72 0.40 0.42 0.30 0.67 0.42 0.30 0.67 0.42 0.30	KC         (K=1.25)         1.00         0.94         1.11         0.98         0.38         0.94         0.38         0.94         0.38         0.94         0.38         0.94         0.58         0.38         0.38         0.38         0.38         0.90         0.90         0.50         0.53         0.38         0.84         0.53         0.84	Tc         (MIN)         5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46 49.87 2.79 2.79 2.79 4.18 6.01 0.00 24.63 0.76 25.84	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE RECONS EX. AREA INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 27.00 118.00 118.00 55.00 67.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.50 2.40	PIPE DIA (IN) 30 30 30 30 30 30 30 30 15 15 24 30 30	(CFS) 82.26 82.26 82.26 82.26 82.26 84.59 6.48 6.48 6.48 63.71	AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91	(F/S) 16.76 16.76 16.76 16.76 16.76 5.28 5.28 8.84 12.98	V (F/ 12.2 13.4 14.0 17.6 12.4 5.07 7.05
LE: LEES B #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>STRUC</b> FROM A5 A4 A3 A2 A1 B4 B3 B2	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A1 A0 B3 B3 B3 B1	RARY  S: 100 Y  DIRECT AREA (ACRES) 0.30  0.43  0.43  0.43  0.45  0.12  0.12  0.30  0.30  0.81  0.00	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85	RU C 0.90 0.75 0.89 0.78 0.78 0.70 0.70 0.70 0.70 0.70 0.70	KC         (K=1.25)         1.00         0.94         1.11         0.98         0.38         0.94         0.38         0.94         0.38         0.94         0.50         0.50         0.53         0.84	Tc (MIN) 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS)         3.10         13.16         4.94         18.01         0.15         21.38         4.06         51.02         0.46         49.87         2.79         2.79         4.18         6.01         0.00         24.63         0.76	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET	PIPE LENGTH (L.F.) 81.00 92.00 202.00 27.00 118.00 118.00 55.00 67.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.50 2.40	PIPE DIA (IN) 30 30 30 30 30 30 30 30 15 15 24 30 30	(CFS) 82.26 82.26 82.26 82.26 82.26 84.59 6.48 6.48 6.48 63.71	AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91	(F/S) 16.76 16.76 16.76 16.76 16.76 5.28 5.28 8.84 12.98	V (F/ 12.2 13.4 14.0 17.6 12.4 5.07 7.05 12.1 12.1
E: LEES 3 #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>STRUC</b> <b>A</b> 4 A3 A2 A1 B4 B3 B2 B1 C1	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A0 B3 B3 B3 B1 A1	RARY  S: 100 Y  DIRECT AREA (ACRES)  0.30  0.43  0.43  0.45  0.12  0.12  0.30  0.81  0.00  0.14  0.00  0.14  0.38  0.38  0.38	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85 2.99	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.72 0.40 0.42 0.40 0.42 0.30 0.67 0.42 0.30 0.67 0.42 0.30 0.67 0.42 0.68 0.68	NOFF C KC (K=1.25) 1.00 0.94 1.11 0.98 0.38 0.38 0.38 0.88 0.88 0.88 0.88 0.38 0.84 0.90 0.90 0.90 0.90 0.50 0.50 0.53 0.38 0.38 0.38 0.38 0.38	Tc         (MIN)         5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS)         3.10         13.16         4.94         18.01         0.15         21.38         4.06         51.02         0.46         49.87         2.79         2.79         4.18         6.01         0.00         24.63         0.76         25.84	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE 6x4 CURB INLET 36 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 27.00 118.00 118.00 55.00 67.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.50 2.40 2.40	PIPE DIA (IN) 30 30 30 30 30 30 30 30 36 4 24 30 30 30 36 30	(CFS) 82.26 82.26 82.26 82.26 82.26 84.59 6.48 27.78 63.71 103.61	AREA (SQ.FT.) 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07	(F/S) 16.76 16.76 16.76 16.76 11.97 5.28 8.84 12.98 14.66	V (F/ 12.2 13.4 14.0 17.6 12.4 5.0 7.0 12.1
E: LEES 3 #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>SIGN C</b> <b>SIGN C</b> <b>A</b> 1 A A A A A A A A A A A A A	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A0 B3 B3 B3 B1 A1	RARY  S: 100 Y  DIRECT AREA (ACRES)  0.30  0.43  0.43  0.45  0.12  0.12  0.30  0.30  0.81  0.81  0.00  0.14	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85 2.99	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.72 0.72 0.40 0.42 0.30 0.67 0.42 0.30 0.67 0.42 0.67	KC         (K=1.25)         1.00         0.94         1.11         0.98         0.38         0.94         0.38         0.94         0.38         0.94         0.950         0.90         0.50         0.53         0.38         0.84         0.53         0.84         0.85	Tc (MIN)         5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32 10.32	(CFS) 3.10 13.16 4.94 18.01 0.15 21.38 4.06 51.02 0.46 49.87 2.79 2.79 2.79 4.18 6.01 0.00 24.63 0.76 25.84 3.33	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE RECONS EX. AREA INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 27.00 118.00 118.00 55.00 67.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.50 2.40 2.40	PIPE DIA (IN) 30 30 30 30 30 30 30 30 36 4 24 30 30 30 36 30	(CFS) 82.26 82.26 82.26 82.26 82.26 84.59 6.48 27.78 63.71 103.61	AREA (SQ.FT.) 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07	(F/S) 16.76 16.76 16.76 16.76 11.97 5.28 8.84 12.98 14.66	V (F/ 12.2 13.4 14.0 17.6 12.4 5.0 7.0 7.0 12.1
E: LEES 3 #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>SIGN C</b> <b>A</b> 1 A3 A2 A1 B4 B3 B2 B1 C1	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A1 A0 B3 B3 B3 B1 A1 A1 A0 A1 A1 A0 A1 A2 A1 A2 A1 A2 A1	RARY  S: 100 Y  DIRECT AREA (ACRES)  0.30  0.43  0.43  0.45  0.12  0.12  0.30  0.81  0.00  0.14  0.00  0.14  0.38  0.38	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85 2.99 2.99 0.38 0.38	RU         C         0.90         0.75         0.89         0.75         0.70         0.70         0.70         0.70         0.70         0.70         0.70         0.72         0.72         0.40         0.42         0.30         0.67         0.42         0.67         0.42         0.67         0.42         0.58         0.58         0.58         0.89	KC         (K=1.25)         1.00         0.94         1.11         0.98         0.38         0.94         0.38         0.94         0.38         0.94         0.53         0.50         0.53         0.38         0.84         0.53         0.84         0.53         0.84         0.53         0.84         0.73         0.73         0.73         0.73	Tc (MIN)         5.0          5.0          5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32	(CFS)         3.10         13.16         4.94         18.01         0.15         21.38         4.06         51.02         0.46         49.87         2.79         2.79         4.18         6.01         0.00         24.63         0.76         25.84         3.33         3.33         3.33         3.33	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6X4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE 4x4 AREA INLET 15 in. HDPE 6x4 CURB INLET	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 202.00 10 202.00 10 55.00 67.00 67.00 67.00 67.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.60 2.40 2.40 1.00	PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	(CFS) 82.26 82.26 82.26 82.26 82.26 84.59 6.48 6.48 63.71 103.61 6.48 6.48	AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07 1.23	(F/S) 16.76 16.76 16.76 16.76 16.76 11.97 5.28 12.98 12.98 14.66 5.28 5.28	V (F/ 12.2 13.4 14.0 17.6 12.4 5.0 7.0 12.1 12.1 5.3
E: LEES 3 #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>SIGN C</b> <b>A</b> 1 A3 A2 A1 B4 B3 B2 B1 C1 C1 D2	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A1 A0 B3 B3 B3 B1 A1 A1 A0 A1 A0 A1 A1 A0 A1	RARY  S: 100 Y  DIRECT AREA (ACRES) 0.30  0.43  0.43  0.43  0.45  0.45  0.12  0.12  0.30  0.30  0.30  0.30  0.14  0.00  0.00 0	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85 2.99 0.38	RU         C         0.90         0.75         0.89         0.75         0.70         0.72         0.42         0.67         0.67         0.67         0.68         0.68         0.68         0.58	KC         (K=1.25)         1.00         0.94         1.11         0.98         0.38         0.94         0.38         0.94         0.53         0.50         0.53         0.38         0.38         0.90         0.90         0.90         0.50         0.53         0.84         0.53         0.84         0.53         0.84         0.73         0.73	Tc (MIN)         5.0          5.0          5.0          5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32	(CFS)         3.10         13.16         4.94         18.01         0.15         21.38         4.06         51.02         0.46         49.87         2.79         2.79         2.79         4.18         6.01         0.00         24.63         0.76         25.84         3.33         3.33         3.33	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE 4x4 AREA INLET 15 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 227.00 118.00 118.00 55.00 67.00 69.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.00 2.40 2.40	PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 36 4 30 30 36 4 30 30 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	(CFS) 82.26 82.26 82.26 82.26 82.26 84.59 6.48 6.48 63.71 103.61 6.48	AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07 7.07	(F/S) 16.76 16.76 16.76 16.76 11.97 5.28 8.84 12.98 14.66 5.28	V (F/ 12.2 13.4 14.0 17.6 12.4 5.0 7.09 12.1 12.1 5.3
E: LEES 3 #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>SIGN C</b> <b>SIGN C</b> <b>SIGN C</b> <b>SIGN C</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b> <b>S</b>	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A2 A1 A0 B3 B3 B3 B3 B1 A1 A1 A0 A0 A1 A0 A1 A2 A1 A2 A1 A1 A2 A1 A1 A2 A1 A1 A2 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1 A1	RARY  S: 100 Y  DIRECT AREA (ACRES) 0.30  0.43  0.43  0.43  0.45  0.45  0.12  0.12  0.30  0.30  0.30  0.30  0.14  0.00  0.00 0	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85 2.99 2.99 0.38 0.38	RU         C         0.90         0.75         0.89         0.75         0.70         0.71         0.68         0.68         0.58         0.58         0.71         0.52	KC         (K=1.25)         1.00         0.94         1.11         0.98         0.38         0.94         0.38         0.94         0.98         0.94         0.98         0.94         0.95         0.90         0.90         0.90         0.90         0.90         0.90         0.90         0.50         0.53         0.84         0.53         0.84         0.53         0.85         0.85         0.73         0.73         0.73         0.73         0.65	Tc (MIN)         5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32	(CFS)         3.10         13.16         4.94         18.01         0.15         21.38         4.06         51.02         0.46         49.87         2.79         2.79         2.79         4.18         6.01         0.00         24.63         0.76         25.84         3.33         3.33         3.33         3.33         1.27	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6X4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE 6X4 CURB INLET 15 in. HDPE 4X4 AREA INLET 15 in. HDPE 6X4 CURB INLET 15 in. HDPE 6X4 CURB INLET 15 in. HDPE 6X4 CURB INLET 15 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 202.00 10 202.00 55.00 67.00 67.00 67.00 67.00 67.00 71.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.60 2.40 2.40 1.00 1.00	PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 36 36 36 36 15 30 15 15 15 15 15	(CFS) 82.26 82.26 82.26 82.26 82.26 84.59 6.48 6.48 63.71 103.61 6.48 6.48 6.48	AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07 1.23 1.23	(F/S) 16.76 16.76 16.76 16.76 16.76 16.76 16.76 11.97 5.28 5.28 5.28 5.28 5.28	V (F/S
E: LEES 3 #: B18-0 <b>SIGN C</b> <b>SIGN C</b> <b>SIGN</b>	SUMMIT LIBF 330 ONDITION TURES TO A4 A3 A2 A1 A1 A0 B3 B3 B3 B1 A1 A1 A0 A1 A1 A0 A1 A2 A1 A2 A1 A2 A1	RARY  S: 100 Y  DIRECT AREA (ACRES) 0.30  0.43  0.43  0.45  0.45  0.12  0.12  0.30  0.81  0.30  0.81  0.00  0.14 0	EAR STO TOTAL AREA (ACRES) 1.36 1.79 2.21 5.65 5.77 0.30 1.11 2.85 2.99 2.99 0.38 0.38	RU C 0.90 0.75 0.89 0.78 0.30 0.75 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.72 0.72 0.72 0.72 0.72 0.72 0.40 0.42 0.30 0.67 0.42 0.30 0.67 0.42 0.30 0.67 0.42 0.30 0.67 0.42 0.30 0.58 0.58 0.58 0.89 0.71	KC         (K=1.25)         1.00         0.94         1.11         0.98         0.38         0.94         0.38         0.94         0.38         0.94         0.53         0.90         0.50         0.53         0.38         0.38         0.38         0.38         0.38         0.38         0.50         0.53         0.53         0.53         0.73         0.73         0.73         0.73         0.73         0.73	Tc (MIN)         5.0	FLOW TIME (MIN) - - - - - - - - - - - - - - - - - - -	INTENSITY (IN/HR) 10.32	(CFS)         3.10         13.16         4.94         18.01         0.15         21.38         4.06         51.02         0.46         49.87         2.79         2.79         4.18         6.01         0.00         24.63         0.76         25.84         3.33         3.33         3.33         3.33         3.71         4.71         4.71         4.71         4.71         4.71         4.71         4.71	EXISTING STRUCTURE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE 4X4 AREA INLET OF EX. PIPE 30 in. HDPE 6X4 CURB INLET OF EX. PIPE 30 in. HDPE RECONS EX. AREA INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE RECONS EX. AREA INLET 24 in. HDPE JUNCTION BOX 30 in. HDPE CURB INLET 36 in. HDPE 6x4 CURB INLET 15 in. HDPE 4x4 AREA INLET 15 in. HDPE 6x4 CURB INLET 15 in. HDPE 6x4 CURB INLET 15 in. HDPE	PIPE LENGTH (L.F.) 81.00 92.00 202.00 202.00 202.00 10 202.00 10 55.00 67.00 67.00 67.00 67.00	PIPE SLOPE (%) 4.00 4.00 4.00 4.00 1.60 1.60 1.60 2.40 2.40 1.00	PIPE DIA (IN) 30 30 30 30 30 30 30 30 30 30 30 30 30	(CFS) 82.26 82.26 82.26 82.26 82.26 84.59 6.48 6.48 63.71 103.61 6.48 6.48	AREA (SQ.FT.) 4.91 4.91 4.91 4.91 7.07 1.23 3.14 4.91 7.07 1.23	(F/S) 16.76 16.76 16.76 16.76 16.76 11.97 5.28 12.98 12.98 14.66 5.28 5.28	V (F/3



# EXHIBIT 4 **STORM SEWER** CALCULATIONS

**Appendix B** FEMA Flood Classification Firm

# National Flood Hazard Layer FIRMette



#### Legend



# Appendix C Soil Map



USDA Natural Resources

**Conservation Service** 



USDA

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
10181	Udarents-Urban land-Sampsel complex, 5 to 9 percent slopes	8.6	100.0%
Totals for Area of Interest		8.6	100.0%

