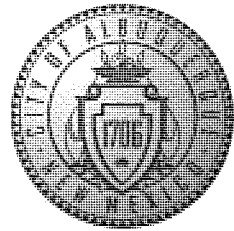


CITY OF ALBUQUERQUE



November 6, 2012

Mike Balaskovits, P.E.
Bohannon Huston, Inc.
7500 Jefferson NE
Albuquerque, NM 87109

**Re: Liberty Dialysis-Rio Rancho, Grading and Drainage Plan
Engineer's Stamp Date 11/05/2012 (A11/D013)**

Dear Mr. Balaskovits,

Based upon the information provided in your submittal received November 5, 2012, the above referenced plan is approved for Building Permit and SO-19 Permit.

A separate SO-19 permit is required for construction within City ROW. A copy of this approval letter must be on hand when applying for the excavation/barricading permit. The work in the City ROW must be inspected and accepted. Contractor must contact Jason Rodriguez at 235-8016 and Construction Coordination at 924-3416 to schedule an inspection.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit for storm water discharge for disturbing one acre or more and a Topsoil Disturbance Permit for disturbing $\frac{3}{4}$ of an acre or more. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque's MS4 Permit became effective March 1st, 2012. Grading and Drainage Plans and Drainage Reports will have to comply with the requirements of the new permit (<http://www.cabq.gov/planning/landcoord/Hydrology.html>).

If you have any questions, you can contact me at 924-3695.

Sincerely,

Shahab Biazar, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: e-mail

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(Rev. 12/2005)

PROJECT TITLE: Liberty Dialysis – Rio Rancho ZONE MAP/DRG. FILE # A-11/D013
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Liberty Dialysis – Rio Rancho
CITY ADDRESS: NW corner of Unser Blvd. & McMahon Blvd. Tract D-1

ENGINEERING FIRM: Bohannon Huston, Inc. CONTACT: Mike Balaskovits
ADDRESS: 7500 Jefferson St. NE Courtyard 1 PHONE: 823-1000
CITY, STATE: Albuquerque, NM ZIP CODE: 87109

OWNER: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

ARCHITECT: Christopher Kidd & Associates, LLC CONTACT: Sarah Less
ADDRESS: N48W16550 Lisbon Rd. PHONE: (262) 901-0505
CITY, STATE: Menomonee Falls, Wisconsin ZIP CODE: 53051

SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

☐ DRAINAGE REPORT
☐ DRAINAGE PLAN 1st SUBMITTAL
☒ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERT (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT
☐ ENGINEER CERT (TCL)
☐ ENGINEER CERT (DRB SITE PLAN)
☐ OTHER (SPECIFY) _____

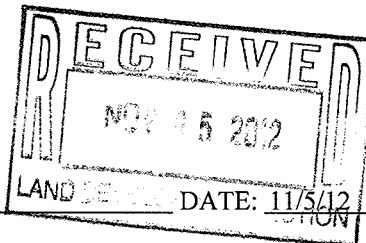
CHECK TYPE OF APPROVAL SOUGHT:

☐ SIA/FINANCIAL GUARANTEE RELEASE
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. FOR BLDG. PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY (PERM)
☐ CERTIFICATE OF OCCUPANCY (TEMP)
☒ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ WORK ORDER APPROVAL
☒ OTHER (SO-19 APPROVAL)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

☐ YES
☐ NO
☐ COPY PROVIDED

SUBMITTED BY: Mike Balaskovits



Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope to the proposed development define the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

Courtyard I
7500 Jefferson St. NE
Albuquerque, NM
87109-4335
www.bhinc.com
voice: 505.823.1000
facsimile: 505.798.7988
toll free: 800.877.5332

CLIENT/COURIER TRANSMITTAL

To: COA Hydrology
One Civic Plaza Room 301
Albuquerque, NM 87102

Requested by: Mike Balaskovits

Date: November 5, 2012

Time Due: ☐ This A.M.
☒ This P.M.
☐ Rush
☐ By Tomorrow

Phone: 924-3986

Job No.: 20130104.003.01.CDPABQ

Job Name: Liberty Dialysis Rio Rancho

DELIVERY VIA

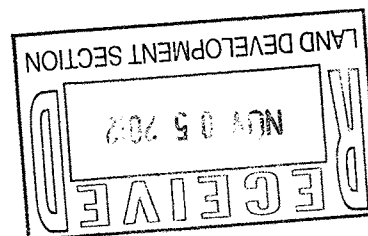
☒ Courier ☐ Federal Express
☐ Mail ☐ UPS
☐ Other

PICK UP

Item: _____

<u>ITEM NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
1	2	Drainage and Transportation Information Sheet
2	2	Liberty Dialysis Grading and Drainage Plan for Site Plan for Building Permit Approval

COMMENTS / INSTRUCTIONS



REC'D BY: _____ DATE: _____ TIME: _____

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(Rev. 12/2005)

PROJECT TITLE: Liberty Dialysis – Rio Rancho ZONE MAP/DRG. FILE # A-11/D013
DRB#: _____ EPC#: _____ WORK ORDER#: _____

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ADDRESS: _____ PHONE: _____
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CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
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TYPE OF SUBMITTAL:	CHECK TYPE OF APPROVAL SOUGHT:
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☐ DRAINAGE PLAN 1 st SUBMITTAL	☐ PRELIMINARY PLAT APPROVAL
☒ DRAINAGE PLAN RESUBMITTAL	☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ CONCEPTUAL G & D PLAN	☐ S. DEV. FOR BLDG. PERMIT APPROVAL
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☐ EROSION CONTROL PLAN	☐ FINAL PLAT APPROVAL
☐ ENGINEER'S CERT (HYDROLOGY)	☐ FOUNDATION PERMIT APPROVAL
☐ CLOMR/LOMR	☒ BUILDING PERMIT APPROVAL
☐ TRAFFIC CIRCULATION LAYOUT	☐ CERTIFICATE OF OCCUPANCY (PERM)
☐ ENGINEER CERT (TCL)	☐ CERTIFICATE OF OCCUPANCY (TEMP)
☐ ENGINEER CERT (DRB SITE PLAN)	☒ GRADING PERMIT APPROVAL
☐ OTHER (SPECIFY)	☐ PAVING PERMIT APPROVAL
	☐ WORK ORDER APPROVAL
	☒ OTHER (SO-19 APPROVAL)

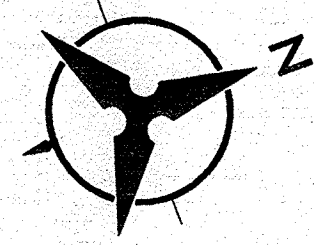
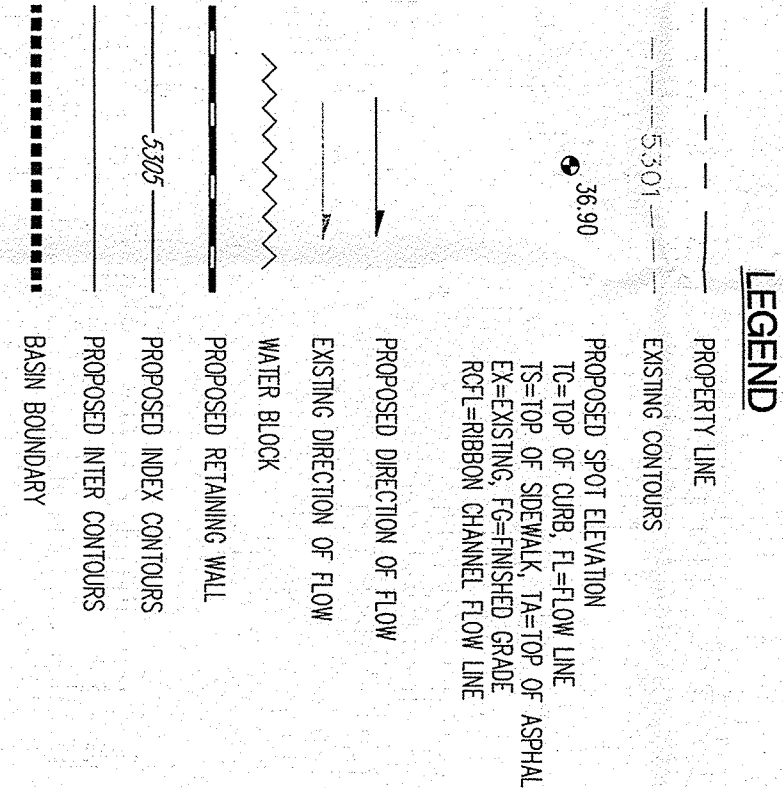
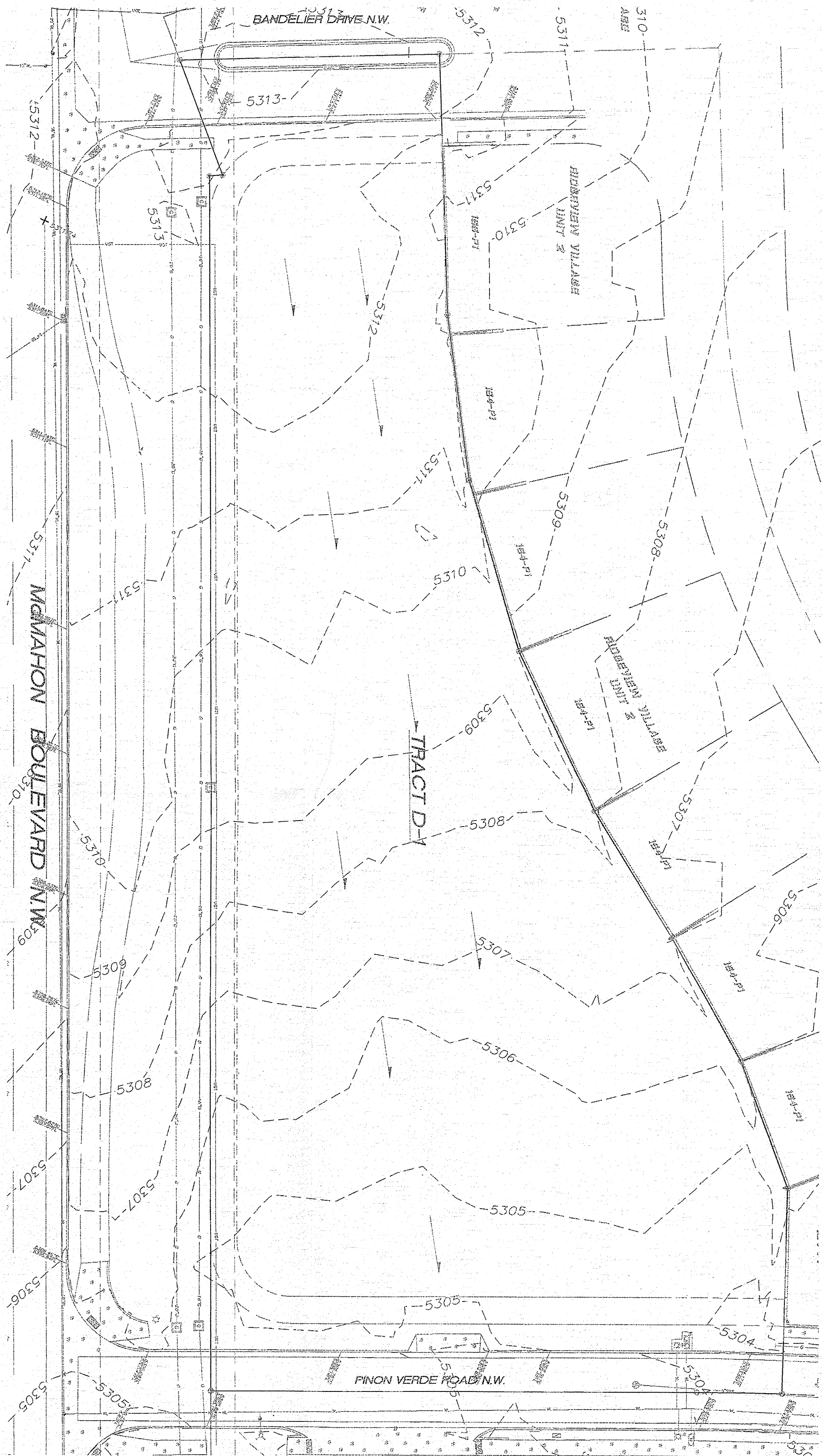
WAS A PRE-DESIGN CONFERENCE ATTENDED:

☐ YES
☐ NO
☐ COPY PROVIDED

SUBMITTED BY: Mike Balaskovits DATE: 11/5/12

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LIBERTY DIALYSIS											
Development Conditions Basin Data Table											
This table is based on the DPM Section 22.2, Zone 1											
Basin ID	Area (SQ. FT.)	Area (AC.)	A	B	C	D	Q _{10yr} (cfs)	Q _{100-yr} (cfs)	WT E (inches)	V _{100-yr} (cu ft)	CF
Existing											
EX	62,172	1.43	0.0%	50.0%	50.0%	0.0%	2.45	3.50	0.83	4300	4300
Proposed to Bandelier											
1	995	0.02	0.0%	0.0%	100.0%	4.37	0.10	1.97	163	285	
Proposed to McMahon Blvd											
2	25373	0.58	0.0%	0.0%	100.0%	4.37	2.55	1.97	4165	7274	
TOTAL	25373	0.58									
Proposed to Pinon Verde Rd.											
3	8645	0.20	0.0%	10.0%	90.0%	4.22	0.84	1.87	1349	2302	
4	22744	0.52	0.0%	25.0%	75.0%	3.41	1.40	2.653	4006		
5	450	0.01	0.0%	25.0%	75.0%	3.34	0.24	1.35	497	747	
TOTAL	35859	0.82									

PINON VERDE HYDRAULIC CALCULATIONS											
STREET SECTION 28 E-3											
MANNING'S N = 0.017 SLOPE = 1.0%											
POINT	DIST	ELEV	POINT	DIST	ELEV	POINT	DIST	ELEV	POINT	DIST	ELEV
1.0	0.0	5.07	4.0	14.0	0.85	7.0	28.0	0.67			
2.0	0.0	5.07	5.0	14.0	0.85						
3.0	2.0	0.75	6.0	28.0	0.0						
WSL	DEPTH	FLOW AREA	FLOW RATE	PER. LOSS	NETTED FLOW	VELOCITY	HEAD LOSS	TRUNK FLOW	PLUS	TOTAL FLOW	ENERGY LOSS
FT.	INCH	SQ. FT.	CFS	FEET	CFS	FEET	FEET	CFS	FEET	CFS	FEET
0.050	0.050	0.040	0.029	1.703	0.177	1.800	0.028	0.177		0.177	0.028
0.100	0.100	0.080	0.058	1.410	0.177	1.800	0.028	0.177		0.177	0.028
0.150	0.150	0.120	0.087	1.222	0.177	1.800	0.028	0.177		0.177	0.028
0.200	0.200	0.160	0.116	1.099	1.462	11.500	0.234	1.462		1.462	0.234
0.250	0.250	0.200	0.145	0.988	17.010	17.56	0.288	17.56		17.56	0.288
0.300	0.300	0.240	0.174	0.868	22.111	20.024	0.334	20.024		20.024	0.334
0.350	0.350	0.280	0.203	0.750	27.111	21.500	0.380	21.500		21.500	0.380
0.400	0.400	0.320	0.232	0.633	32.111	22.976	0.426	22.976		22.976	0.426
0.450	0.450	0.360	0.261	0.517	37.111	24.452	0.472	24.452		24.452	0.472
0.500	0.500	0.400	0.290	0.400	42.111	25.928	0.518	25.928		25.928	0.518
0.550	0.550	0.440	0.319	0.283	47.111	27.404	0.564	27.404		27.404	0.564
0.600	0.600	0.480	0.348	0.167	52.111	28.880	0.610	28.880		28.880	0.610
0.650	0.650	0.520	0.377	0.050	57.111	30.356	0.656	30.356		30.356	0.656
0.700	0.700	0.560	0.406	0.000	62.111	31.832	0.702	31.832		31.832	0.702
0.750	0.750	0.600	0.435	0.000	67.111	33.308	0.748	33.308		33.308	0.748
0.800	0.800	0.640	0.464	0.000	72.111	34.784	0.794	34.784		34.784	0.794
0.850	0.850	0.680	0.493	0.000	77.111	36.260	0.840	36.260		36.260	0.840
0.900	0.900	0.720	0.522	0.000	82.111	37.736	0.886	37.736		37.736	0.886
0.950	0.950	0.760	0.551	0.000	87.111	39.212	0.932	39.212		39.212	0.932
1.000	1.000	0.800	0.580	0.000	92.111	40.688	0.978	40.688		40.688	0.978
1.050	1.050	0.840	0.609	0.000	97.111	42.164	1.024	42.164		42.164	1.024
1.100	1.100	0.880	0.638	0.000	102.111	43.640	1.070	43.640		43.640	1.070
1.150	1.150	0.920	0.667	0.000	107.111	45.116	1.116	45.116		45.116	1.116
1.200	1.200	0.960	0.696	0.000	112.111	46.592	1.162	46.592		46.592	1.162
1.250	1.250	1.000	0.725	0.000	117.111	48.068	1.208	48.068		48.068	1.208
1.300	1.300	1.040	0.754	0.000	122.111	49.544	1.254	49.544		49.544	1.254
1.350	1.350	1.080	0.783	0.000	127.111	51.020	1.300	51.020		51.020	1.300
1.400	1.400	1.120	0.812	0.000	132.111	52.496	1.346	52.496		52.496	1.346
1.450	1.450	1.160	0.841	0.000	137.111	53.972	1.392	53.972		53.972	1.392
1.500	1.500	1.200	0.870	0.000	142.111	55.448	1.438	55.448		55.448	1.438
1.550	1.550	1.240	0.899	0.000	147.111	56.924	1.484	56.924		56.924	1.484
1.600	1.600	1.280	0.928	0.000	152.111	58.400	1.530	58.400		58.400	1.530
1.650	1.650	1.320	0.957	0.000	157.111	59.876	1.576	59.876		59.876	1.576
1.700	1.700	1.360	0.986	0.000	162.111	61.352	1.622	61.352		61.352	1.622
1.750	1.750	1.400	0.101	0.000	167.111	62.828	1.668	62.828		62.828	1.668
1.800	1.800	1.440	0.101	0.000	172.111	64.304	1.714	64.304		64.304	1.714
1.850	1.850	1.480	0.101	0.000	177.111	65.780	1.760	65.780		65.780	1.760
1.900	1.900	1.520	0.101	0.000	182.111	67.256	1.806	67.256		67.256	1.806
1.950	1.950	1.560	0.101	0.000	187.111	68.732	1.852	68.732		68.732	1.852
2.000	2.000	1.600	0.101	0.000	192.111	70.208	1.898	70.208		70.208	1.898
2.050	2.050	1.640	0.101	0.000	197.111	71.684	1.944	71.684		71.684	1.944
2.100	2.100	1.680	0.101	0.000	202.111	73.160	1.990	73.160		73.160	1.990
2.150	2.150	1.720	0.101	0.000	207.111	74.636	2.036	74.636		74.636	2.036
2.200	2.200	1.760	0.101	0.000	212.111	76.112	2.082	76.112		76.112	2.082
2.250	2.250	1.800	0.101	0.000	217.111	77.588	2.128	77.588		77.588	2.128
2.300	2.300	1.840	0.101	0.000	222.111	79.064	2.174	79.064		79.064	2.174
2.350	2.350	1.880	0.101	0.000	227.111	80.540	2.220	80.540		80.540	2.220
2.400	2.400	1.920	0.101	0.000	232.111	82.016	2.266	82.016		82.016	2.266
2.450	2.450	1.960	0.101	0.000	237.111	83.492	2.312	83.492		83.492	2.312
2.500	2.500	2.000	0.101	0.000	242.111	84.968	2.358	84.968		84.968	2.358
2.550	2.550	2.040	0.101	0.000	247.111	86.444	2.404	86.444		86.444	2.404
2.600	2.600	2.080	0.101	0.000	252.111	87.920	2.450	87.920		87.920	2.450
2.650	2.650	2.120	0.101	0.000	257.111	89.396	2.496	89.396		89.396	2.496
2.700	2.700	2.160	0.101	0.000	262.111	90.872	2.542	90.872		90.872	2.542
2.750	2.750	2.200	0.101	0.000	267.111	92.348	2.588	92.348		92.348	2.588
2.800	2.800	2.240	0.101	0.000	272.111	93.824	2.634	93.824		93.824	2.634
2.850	2.850	2.280	0.101	0.000	277.111	95.300	2.680	95.300		95.300	2.680
2.900	2.900	2.320	0.101	0.000	282.111	96.776	2.726	96.776		96.776	2.726
2.950	2.950	2.360	0.101	0.000	287.111	98.252	2.772	98.252		98.252	2.772
3.000	3.000	2.400	0.101	0.000	292.111	99.728	2.818	99.728		99.728	2.818
3.050	3.050	2.440	0.101	0.000	297.111	101.204	2.864	101.204		101.204	2.864
3.100	3.100	2.480	0.101	0.000	302.111	102.680	2.910	102.680		102.680	2.910
3.150	3.150	2.520	0.101	0.000	307.111	104.156	2.956	104.156		104.156	2.956
3.200	3.200	2.560	0.101	0.000	312.111	105.632	3.002	105.632		105.632	3.002
3.250	3.250	2.600	0.101	0.000	317.111	107.108	3.048	107.108		107.108	3.048
3.300	3.300	2.640	0.101	0.000	322.111	108.584	3.094	108.584		108.584	3.094
3.350	3.350	2.680	0.101	0.000	327.111	110.060	3.140	110.060		110.060	3.140
3.400	3.400	2.720	0.101	0.000	332.111	111.536	3.186	111.536		111.536	3.186
3.450	3.450	2.760	0.101	0.000	337.111	113.012	3.232	113.012		113.012	3.232
3.500	3.500	2.800	0.101	0.000	342.111	114.488	3.278	114.488		114.488	3.278
3.550	3.550	2.840	0.101	0.000	347.111	115.964	3.324	115.964		115.964	3.324
3.600	3.600	2.880	0.101	0.000	352.111	117.440	3.370	117.440		117.440	3.370
3.650	3.650	2.920	0.101	0.000	357.111	118.916	3.416	118.916		118.916	3.416
3.700	3.700	2.960	0.101	0.000	362.111	120.392	3.462	120.392		120.392	3.462
3.750	3.750	3.000	0.101	0.000	367.111	121.868	3.508	121.868		121.868	3.508
3.800	3.800	3.040	0.101	0.000	372.111	123.344	3.554	123.344		123.344	3.554
3.850	3.850	3.080	0.101	0.000	377.111	124.820	3.600	124.820		124.820	3.600
3.900	3.900	3.120	0.101	0.000	382.111	126.296	3.646	126.296		126.296	3.646
3.950	3.950	3.160	0.101	0.000	387.111	127.772	3.692	127.772		127.772	3.692

