

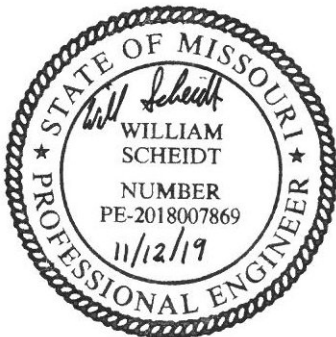
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# STORMWATER MANAGEMENT FACILITIES REPORT

For

## 199 Frontier Park Drive – Frontier Integrated Health Center

Prepared for:  
Frontier Integrated Health Center, Inc.  
2011 Highway K  
O'Fallon, MO 63366  
(630) 379-5934



PRS Project No. 82129.FRIN.02R  
November, 2019

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### PICKETT, RAY & SILVER, INC.

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## STORMWATER MANAGEMENT FACILITIES REPORT

### **EXECUTIVE SUMMARY**

This is a redevelopment of the site. There is an existing building pad and a concrete parking lot. The building pad and concrete parking will all be removed. The trees on the site are to be preserved. A new medical building and parking lot is to be constructed on this site. An underground detention system is proposed to detain water and filter a portion of the water through the bottom of the system.

## INTRODUCTION

Frontier Integrate Health Center, Inc, is proposing to remove the existing parking lot and building pad and build a standalone building with associated parking area in the City of O'Fallon, Missouri. The proposed site is a 0.98 Acre site located at 199 Frontier Park Drive.

### Evaluation of Existing Conditions

Existing on-site is a building pad and the associated parking lots. The existing improvements are going to be removed and the new Building and Parking Lot will have an increase in impervious area.

Therefore, a volume reduction Best Management Practice designed to manage the acreage of added imperviousness on the site will be necessary for this development.

#### Existing Runoff Calculations:

Impervious Area =	0.25 Ac @ 3.85 PI =	0.96 cfs
Pervious Area =	0.73 Ac @ 1.87 PI =	<u>1.37 cfs</u>
Total Runoff =	0.98 Ac @ 2.35 PI =	2.33 cfs

According to the USDA NRCS Soils map, included in the appendix, the soil classification for this site is 60124-Harvester-Urban land complex, 2 to 9 percent slopes. This classification is reserved for lands that are Developed and moderately well drained. (see Appendix E)

There are no water quality resources currently located on this site. (see Appendix C)

### Evaluation of Proposed Conditions

The proposed redevelopment plan includes the construction of a single building with adjacent parking and an underground detention system.

#### Proposed Runoff Calculations:

Impervious Area =	0.59 Ac @ 3.85 PI =	2.27 cfs
Pervious Area =	0.39 Ac @ 1.87 PI =	<u>0.73 cfs</u>
Total Runoff =	0.98 Ac @ 3.30 PI =	3.00 cfs

#### Redeveloped Differential

$$\Delta Q = 3.00 - 2.33 = 0.67 \text{ cfs}$$

We are proposing the use of an underground detention system to mitigate the runoff from the proposed site. See Appendix "A" for Water Quality Calculations. See Appendix "B" for detention details.

# APPENDIX “A”

## Water Quality Calculations

Drainage to proposed Underground Detention System			
Drainage Area (A)		0.39	Acres
Percent Impervious (I)		95.0	%
$R_v = 0.05 + 0.009 * (I)$		0.905	
Rainfall Depth (P) (.2in per Acre min.)		0.196	in
<b>WQv = <math>[P * R_v * A] / 12 * 43,560</math></b>		<b>251</b>	<b>Cu Ft Required</b>
<b>WQv = Depth * Length * Width</b>		<b>252</b>	<b>Cu Ft Provided</b>
Bedding Depth (Df)		0.5	ft
System Storage Depth		0.5	ft
System Length		42	ft
System width		6	ft

# **APPENDIX “B”**

## **Detention Details**

**KEY**



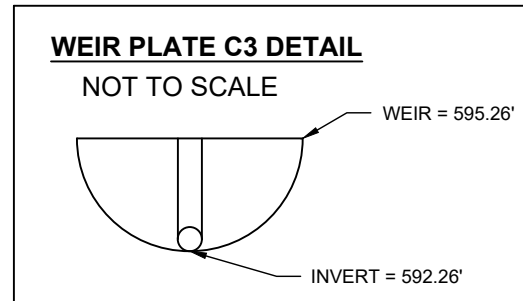
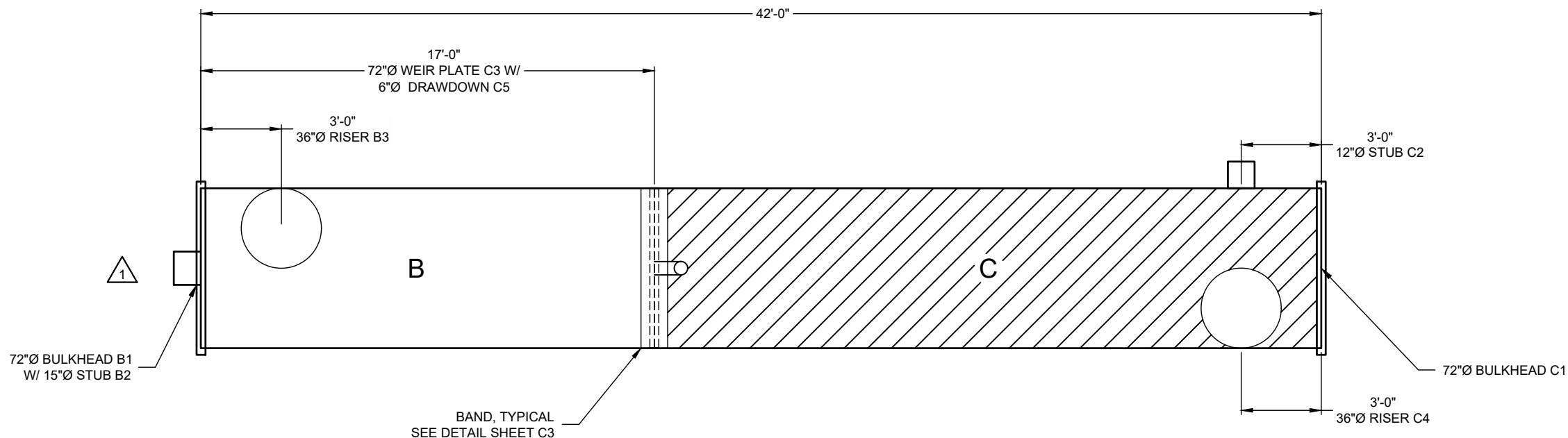
SOLID



PERFORATED

STUB INFORMATION		
PIECE	STUB INVERT	SYSTEM INVERT
24"Ø STUB B2	592.76	592.26
12"Ø STUB C2	597.24	592.26

RISER INFORMATION		
PIECE	RIM ELEV.	SYSTEM INVERT
36"Ø RISER C4	602.00	592.26
36"Ø RISER B3	601.00	592.26



THE UNDERSIGNED HEREBY APPROVES THE ATTACHED (C5) PAGES INCLUDING THE FOLLOWING:

- PIPE STORAGE = 1,188 CF
- MAINLINE PIPE GAGE = 16
- WALL TYPE = PERFORATED, SOLID
- DIAMETER = 72, 6"
- FINISH = ALT2
- CORRUGATION = 5x1

CUSTOMER \_\_\_\_\_

DATE \_\_\_\_\_

**ASSEMBLY**

SCALE: 1" = 5'

PIPE STORAGE: 1,188 CF  
 STRUCTURAL BACKFILL STORAGE: 233 CF  
 TOTAL STORAGE PROVIDED: 1421 CF  
 LOADING: H20  
 PIPE INV. = 592.26'±

**NOTES**

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE.
- ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD (EOR) PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE 2 2/3" x 1/2" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE AS REQUIRED, BY CONTRACTOR.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL ACCESS CASTINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE NOT SUPPLIED BY CONTECH.

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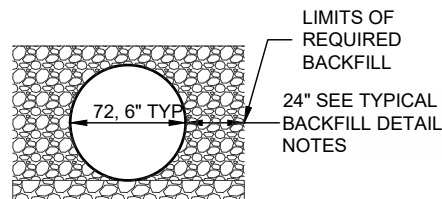
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1	11/11/19	STUB DIAMETER	NJC

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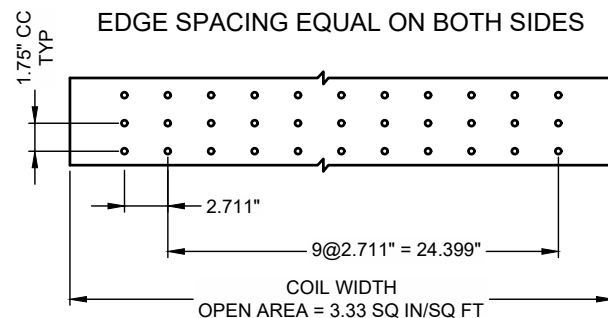
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 PROPOSAL  
 DRAWING

72"Ø UNDERGROUND DETENTION SYSTEM - 621186-020  
 FRONTIER INTEGRATED HEALTH CENTER  
 SAINT CHARLES, MO  
 SITE DESIGNATION: CMP SYSTEM

PROJECT No.: 621186	SEQ. No.: 020	DATE: 5/31/2019
DESIGNED: NJC	DRAWN: NJC	
CHECKED:	APPROVED:	
SHEET NO.: C1 OF C5		



**TYPICAL SECTION VIEW**  
NOT TO SCALE



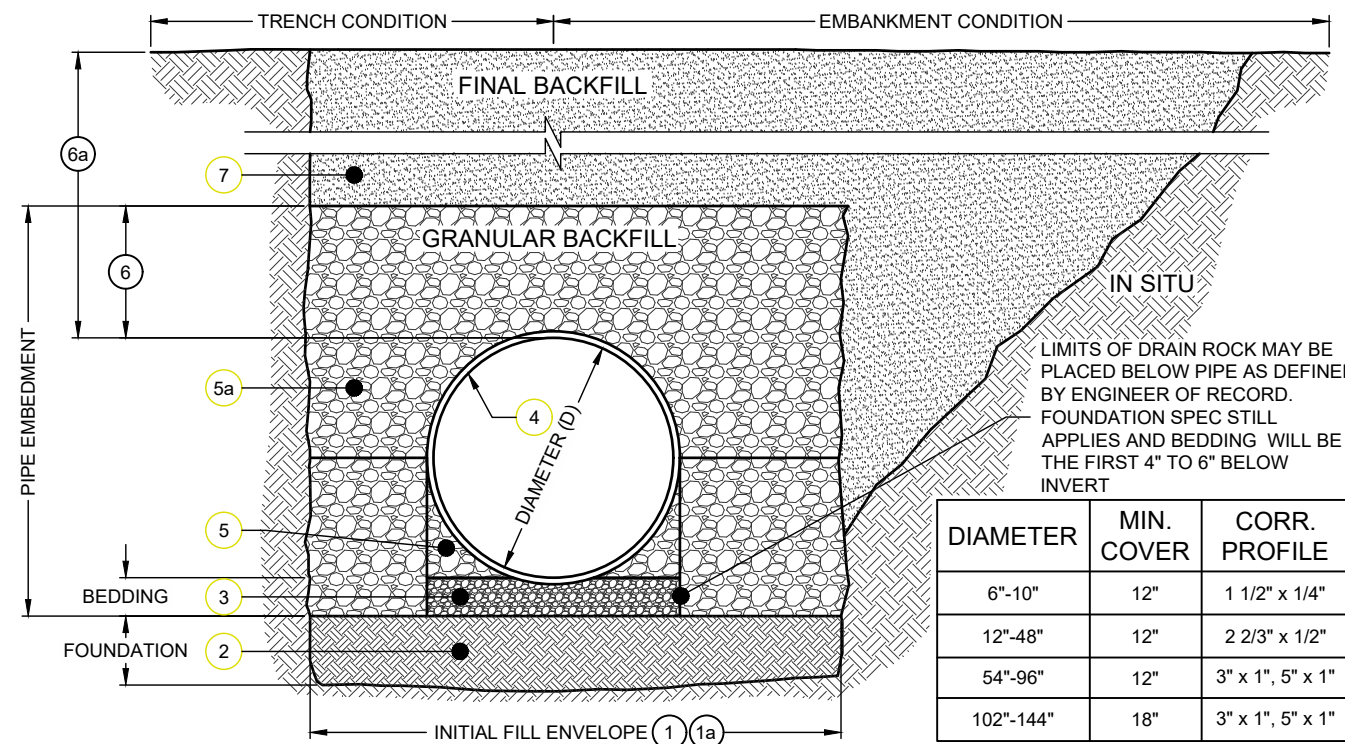
- NOTES:
- PERFORATIONS MEET AASHTO AND ASTM SPECIFICATIONS.
  - PERFORATION OPEN AREA PER SQUARE FOOT OF PIPE IS BASED ON THE NOMINAL DIAMETER AND LENGTH OF PIPE.
  - DIMENSIONS SUBJECT TO MANUFACTURER'S TOLERANCES.
  - ALL HOLES 3/8"Ø.

**EXFILTRATION AREA**  
STANDARD PERFORATION PATTERNS

APPROXIMATE AREA PER LINEAR FOOT OF PIPE				
PIPE	CORRUGATION PATTERN			
	2 2/3" x 1/2"	3" x 1"	5" x 1"	ULTRA FLO
72"Ø	73.3 SQ. IN.	77.4 SQ. IN.	75.3 SQ. IN.	

- NOTES:
- GAGE AND COATING LIMITATIONS APPLY. 5" x 1" IS NOT AVAILABLE IN ALUMINUM.
  - DIMENSIONS SUBJECT TO MANUFACTURER'S TOLERANCES.

**TYPICAL PERFORATION DETAIL**  
NOT TO SCALE



- MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE TRENCH WIDTH IS THE MINIMUM AMOUNT REQUIRED FOR PROPER INSTALLATION AND TO SUPPORT HORIZONTAL PRESSURE FROM THE PIPE. THE MANUFACTURER'S SUGGESTED MINIMUM VALUE IS: 1.5D + 12".
- MINIMUM EMBANKMENT WIDTH (IN FEET) FOR INITIAL FILL ENVELOPE: 3.0D BUT NO LESS THAN D + 4'0".
- FOUNDATION SHALL BE WELL CONSOLIDATED & STABLE, CAPABLE OF SUPPORTING FILL MATERIAL LOAD.
- OPEN-GRADED GRANULAR BEDDING MATERIAL SHALL BE A RELATIVELY LOOSE MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, 4" TO 6" IN DEPTH. SUGGESTED PARTICLE SIZE OF 1/2 CORRUGATION DEPTH.
- CORRUGATED STEEL PIPE (CSP / HEL-COR).
- HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION.
- THE BACKFILL MATERIAL SHALL BE A FREE-DRAINING, ANGULAR, WASHED-STONE PER AASHTO M 43 SIZE #3 WITH A 1/2" - 2" PARTICLE SIZE OR APPROVED EQUAL. MATERIAL SHALL BE PLACED IN 12" MAXIMUM LIFTS AND SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVEL-SLICING, RODDING, AIR-TAMPER, VIBRATORY PLATE OR OTHER EFFECTIVE METHODS. COMPACTION IS CONSIDERED ADEQUATE WHEN A DENSITY EQUIVALENT TO 90% STANDARD PROCTOR IS ACHIEVED OR WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR OR UNDER FOOT. THE PROJECT ENGINEER OR HIS REPRESENTATIVE MUST BE SATISFIED WITH THE LEVEL OF COMPACTION. INADEQUATE COMPACTION CAN LEAD TO EXCESSIVE PIPE DEFLECTIONS AND SETTLEMENT OF THE SOILS OVER THE SYSTEM. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO-LIFT DIFFERENTIAL BETWEEN THE SIDES OF ANY PIPE IN THE SYSTEM AT ALL TIMES DURING THE BACKFILL PROCESS. BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON ANY PIPES IN THE SYSTEM.
- INITIAL OPEN GRADED GRANULAR BACKFILL ABOVE PIPE MAY INCLUDE ROAD BASE MATERIAL (AND RIGID PAVEMENT IF APPLICABLE). SEE TABLE ABOVE.
- TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT.
- FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD.

- NOTES:
- GEOTEXTILE SHOULD BE CONSIDERED FOR USE TO PREVENT SOIL MIGRATION INTO VARYING SOIL TYPES (PROJECT ENGINEER).
  - FOR MULTIPLE BARREL INSTALLATIONS THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE PIPE DIA. / 2 BUT NO LESS THAN 12", OR 36" FOR PIPE DIAMETERS 72" AND LARGER.
  - CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING (TABLE C12.6.7-1).

**TYPICAL BACKFILL DETAIL**  
NOT TO SCALE

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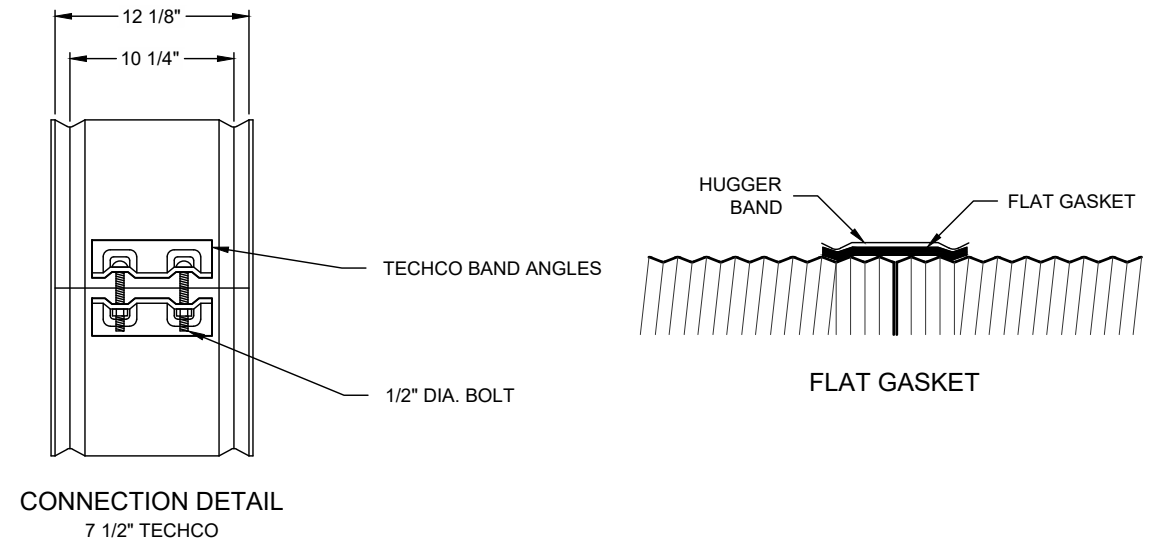
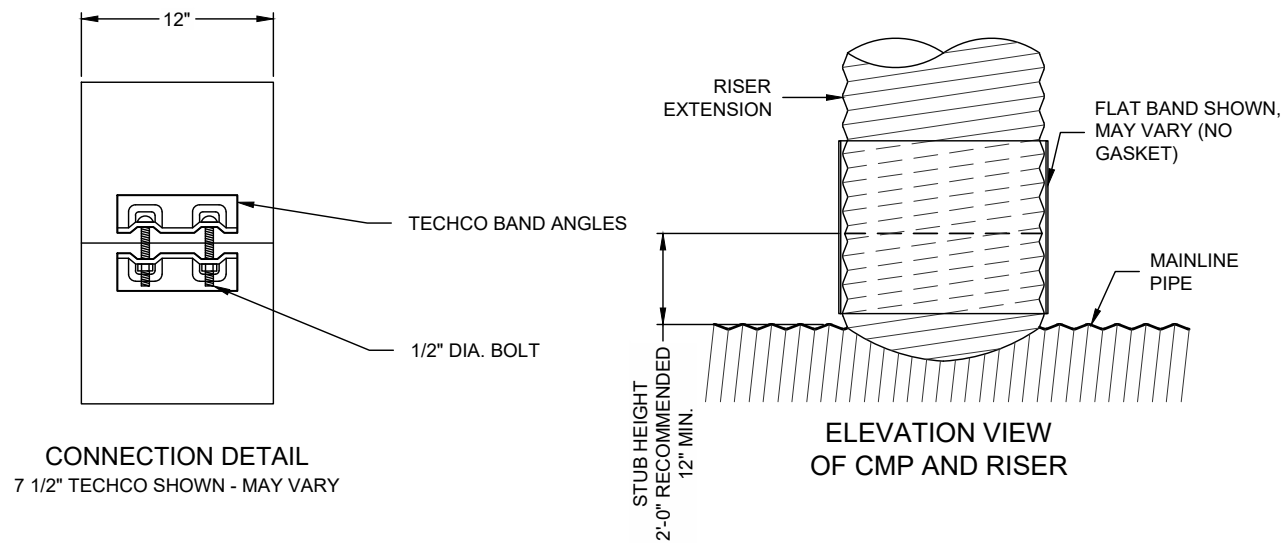
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PROPOSAL  
DRAWING

72"Ø UNDERGROUND DETENTION SYSTEM - 621186-020  
FRONTIER INTEGRATED HEALTH CENTER  
SAINT CHARLES, MO  
SITE DESIGNATION: CMP SYSTEM

PROJECT No.: 621186	SEQ. No.: 020	DATE: 5/31/2019
DESIGNED: NJC	DRAWN: NJC	
CHECKED:	APPROVED:	
SHEET NO.: C2 OF C5		



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### PLAIN END CMP RISER PIPE

**GENERAL NOTES:**

1. DELIVERED BAND STYLE AND FASTENER TYPE MAY VARY BY FABRICATION PLANT.
2. JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.
3. BAND MATERIAL AND GAGE TO BE SAME AS RISER MATERIAL.
4. IF RISER HAS A HEIGHT OF COVER OF 10' OR MORE, USE A SLIP JOINT.
5. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
  - 12" THRU 48" 1-PIECE
  - 54" 2-PIECES
6. ALL RISER JOINT COMPONENTS WILL BE FIELD ASSEMBLED.
7. MANHOLE RISERS IN APPLICATIONS WHERE TRAFFIC LOADS ARE IMPOSED REQUIRE SPECIAL DESIGN CONSIDERATIONS.
8. DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

#### 12" RISER BAND DETAIL NOT TO SCALE

### 2 2/3"x1/2" RE-ROLLED END HEL-COR PIPE

**GENERAL NOTES:**

1. JOINT IS TO BE ASSEMBLED PER AASHTO BRIDGE CONSTRUCTION SPECIFICATION SEC 26.4.2.4.
2. BAND MATERIALS AND/OR COATING CAN VARY BY LOCATION. CONTACT YOUR CONTECH REPRESENTATIVE FOR AVAILABILITY.
3. BANDS ARE SHAPED TO MATCH THE PIPE-ARCH WHEN APPLICABLE.
4. BANDS ARE NORMALLY FURNISHED AS FOLLOWS:
  - 12" THRU 48" 1-PIECE
  - 54" THRU 96" 2-PIECES
  - 102" THRU 144" 3-PIECES
5. BAND FASTENERS ARE ATTACHED WITH SPOT WELDS, RIVETS OR HAND WELDS.
6. ALL CMP IS REROLLED TO HAVE ANNULAR END CORRUGATIONS OF 2 2/3"x1/2"
7. DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
8. ORDER SHALL DESIGNATE GASKET OPTION, IF REQUIRED (SEE DETAILS ABOVE).

#### H-12 HUGGER BAND DETAIL NOT TO SCALE

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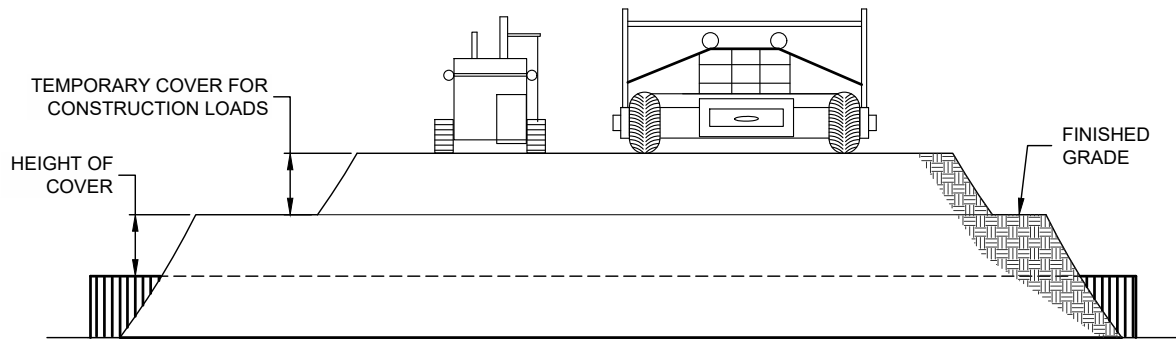
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72"Ø UNDERGROUND DETENTION SYSTEM - 621186-020  
FRONTIER INTEGRATED HEALTH CENTER  
SAINT CHARLES, MO  
SITE DESIGNATION: CMP SYSTEM

PROJECT No.: 621186	SEQ. No.: 020	DATE: 5/31/2019
DESIGNED: NJC	DRAWN: NJC	
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SHEET NO.: C3 OF C5		



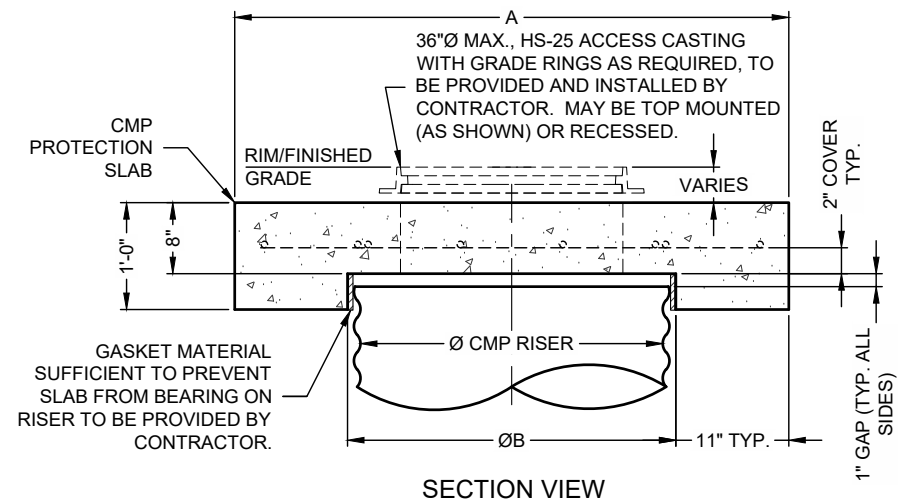
**CONSTRUCTION LOADS**

FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
	MINIMUM COVER (FT)			
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

\*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

**CONSTRUCTION LOADING DIAGRAM**  
NOT TO SCALE

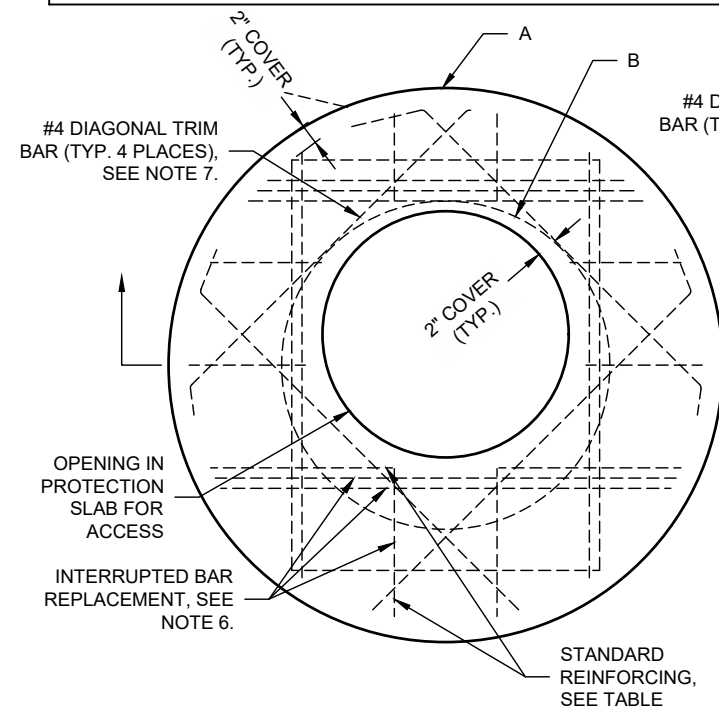


SECTION VIEW

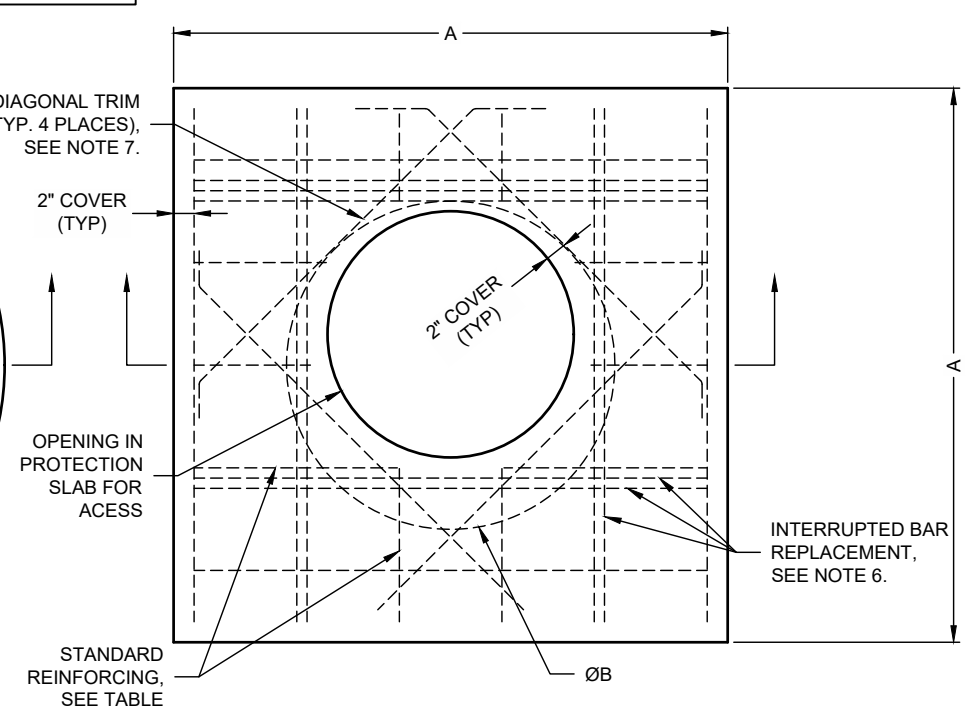
REINFORCING TABLE				
Ø CMP RISER	A	B Ø	REINFORCING	**BEARING PRESSURE (PSF)
24"	4'Ø 4'x4'	26"	#5 @ 10" OCEW #5 @ 10" OCEW	2,540 1,900
30"	4'-6"Ø 4'-6" x 4'-6"	32"	#5 @ 10" OCEW #5 @ 9" OCEW	2,260 1,670
36"	5'Ø 5' x 5'	38"	#5 @ 9" OCEW #5 @ 8" OCEW	2,060 1,500
42"	5'-6"Ø 5'-6" x 5'-6"	44"	#5 @ 8" OCEW #5 @ 8" OCEW	1,490 1,370
48"	6'Ø 6' x 6'	50"	#5 @ 7" OCEW #5 @ 7" OCEW	1,210 1,270

\*\* ASSUMED SOIL BEARING CAPACITY

**ACCESS CASTING NOT SUPPLIED BY CONTECH**



ROUND OPTION PLAN VIEW



SQUARE OPTION PLAN VIEW

NOTES:

- DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION AND ACI 350.
- DESIGN LOAD HS25.
- EARTH COVER = 1' MAX.
- CONCRETE STRENGTH = 4,000 psi
- REINFORCING STEEL = ASTM A615, GRADE 60.
- PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.

- TRIM OPENING WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING, BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
- PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
- DETAIL DESIGN BY DELTA ENGINEERS, ARCHITECTS AND LAND SURVEYORS, ENDWELL, NY.

**MANHOLE CAP DETAIL**  
NOT TO SCALE

**SPECIFICATION FOR CORRUGATED STEEL PIPE-ALUMINIZED TYPE 2 STEEL**

**SCOPE**

THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE CORRUGATED STEEL PIPE (CSP) DETAILED IN THE PROJECT PLANS.

**MATERIAL**

THE ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M274 OR ASTM A929.

**PIPE**

THE CSP SHALL BE MANUFACTURED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF AASHTO M36 OR ASTM A760. THE PIPE SIZES, GAGES AND CORRUGATIONS SHALL BE AS SHOWN ON THE PROJECT PLANS.

ALL FABRICATION OF THE PRODUCT SHALL OCCUR WITHIN THE UNITED STATES.

**HANDLING AND ASSEMBLY**

SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE NATIONAL CORRUGATED STEEL PIPE ASSOCIATION (NCSPA)

**INSTALLATION**

SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II OR ASTM A798 AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

**MATERIAL SPECIFICATION**  
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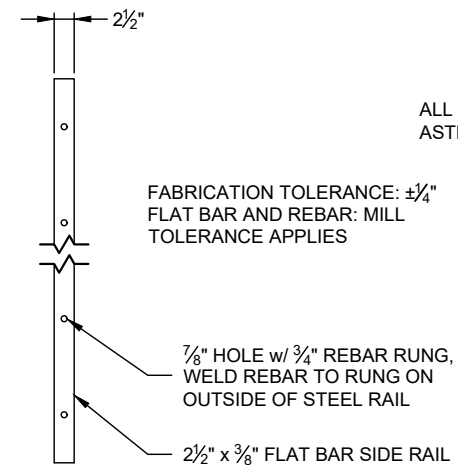
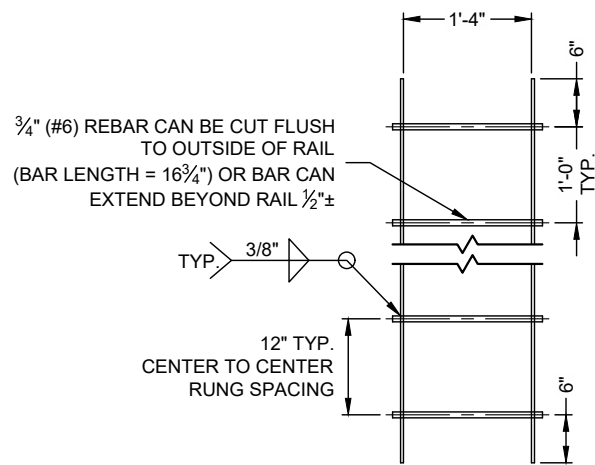
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72"Ø UNDERGROUND DETENTION SYSTEM - 621186-020  
FRONTIER INTEGRATED HEALTH CENTER  
SAINT CHARLES, MO  
SITE DESIGNATION: CMP SYSTEM

PROJECT No.: 621186	SEQ. No.: 020	DATE: 5/31/2019
DESIGNED: NJC	DRAWN: NJC	
CHECKED:	APPROVED:	
SHEET NO.: C4	OF C5	



3/4" (#6) REBAR CAN BE CUT FLUSH TO OUTSIDE OF RAIL (BAR LENGTH = 16 3/4") OR BAR CAN EXTEND BEYOND RAIL 1/2"±

TYP. 3/8"  
12" TYP. CENTER TO CENTER RUNG SPACING

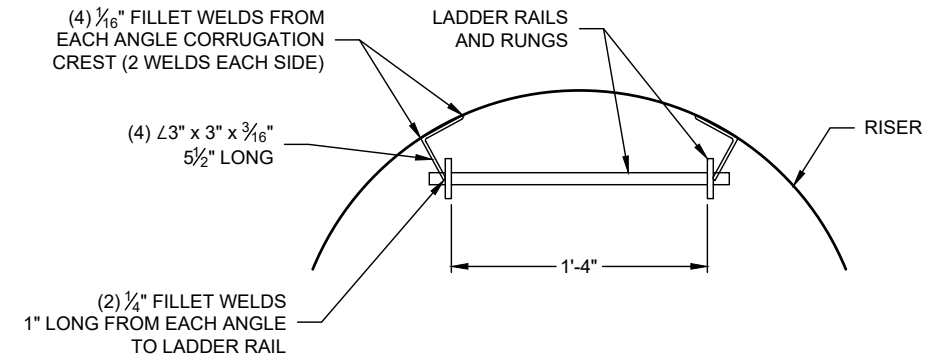
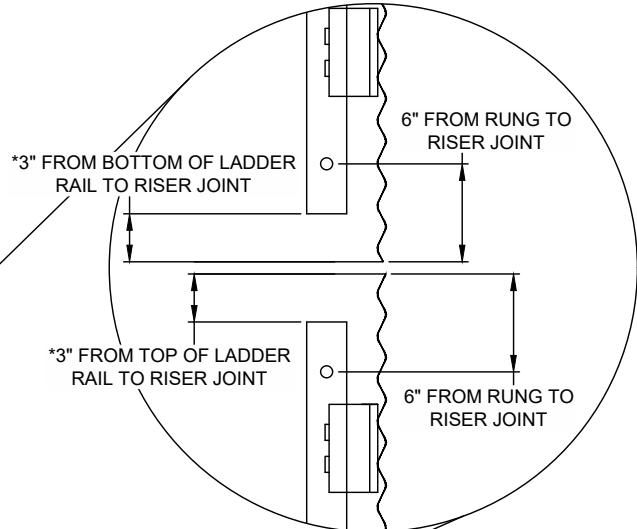
PLAN

SIDE

ALL STEEL PER ASTM A36

FABRICATION TOLERANCE: ±1/4" FLAT BAR AND REBAR: MILL TOLERANCE APPLIES

\*NOTE: WHEN RISER EXTENSIONS ARE USED, THE PLANT SHOULD CUT 3" FROM THE SIDE RAILS AS SHOWN



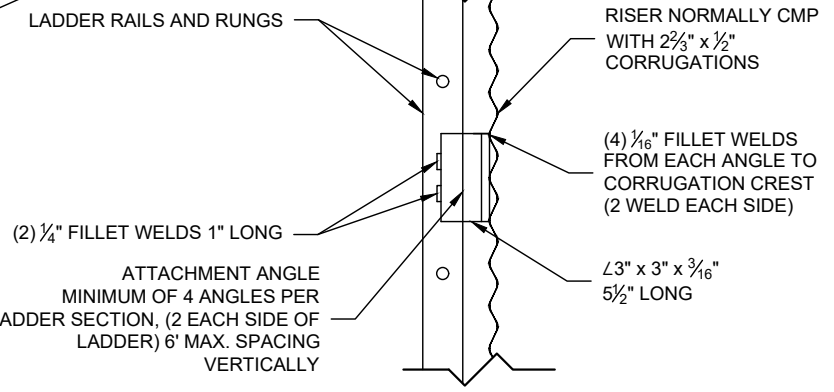
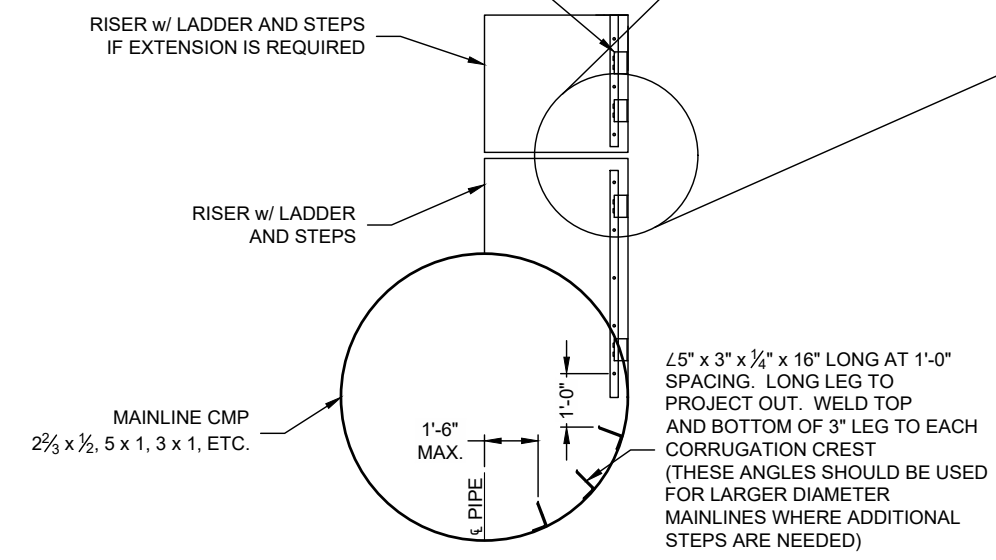
PLAN

- NOTES:
- LADDERS CAN BE MADE IN 20'-0" STANDARD LENGTHS AND CUT TO FIT
  - ALL MATERIAL TO MEET ASTM A36
  - LADDER TO BE HOT DIPPED GALVANIZED PER ASTM A-123 AFTER FABRICATION IS COMPLETE

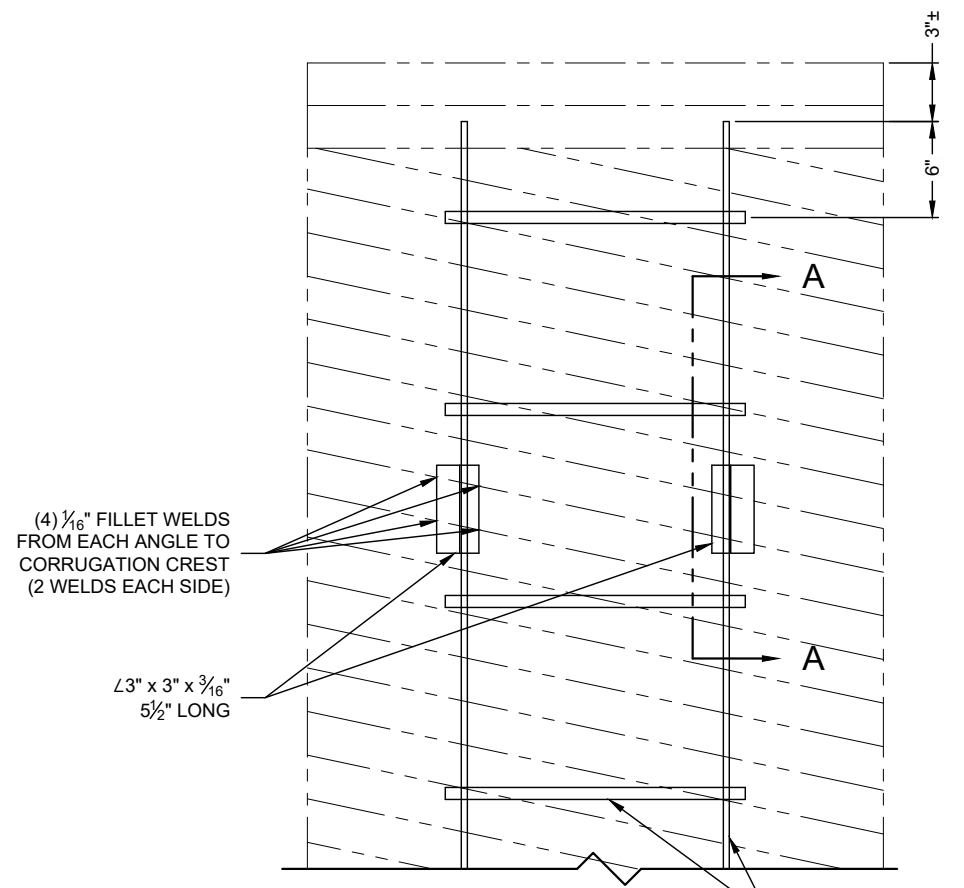
**STANDARD LADDER DETAIL**

NOT TO SCALE  
PART NO. HALAGVL16

PROVIDE MINIMUM OF 4 ATTACHMENT ANGLES (2 ON EITHER SIDE OF LADDER RAIL) TO CONNECT LADDER TO RISER EXTENSION



SECTION A-A



ELEVATION

**NOTE:**  
THIS DRAWING IS INTENDED TO APPLY TO LADDERS INSTALLED IN RISERS HAVING A DIAMETER OF 30" OR LARGER. DUE TO SPACE CONSTRAINTS AND LIMITED ACCESSIBILITY, THE PRACTICALITY AND SUITABILITY OF UTILIZING RISERS SMALLER THAN 30" DIAMETER AND/OR INCORPORATING LADDERS IN THESE SMALLER DIAMETER RISERS SHOULD BE ADDRESSED BY THE OWNER AND PROJECT ENGINEER

**RISER LADDER DETAIL**

NOT TO SCALE

MARK	DATE	REVISION DESCRIPTION	BY
1	11/11/19	STUB DIAMETER	NJC

**CONTECH**  
ENGINEERED SOLUTIONS LLC  
www.ContechES.com  
11815 NE Glenn Widing Drive, Portland, OR 97220  
800-548-4667 503-240-3393 800-561-1271 FAX

**CONTECH**  
CMP DETENTION SYSTEMS  
CONTECH PROPOSAL DRAWING

72"Ø UNDERGROUND DETENTION SYSTEM - 621186-020  
FRONTIER INTEGRATED HEALTH CENTER  
SAINT CHARLES, MO  
SITE DESIGNATION: CMP SYSTEM

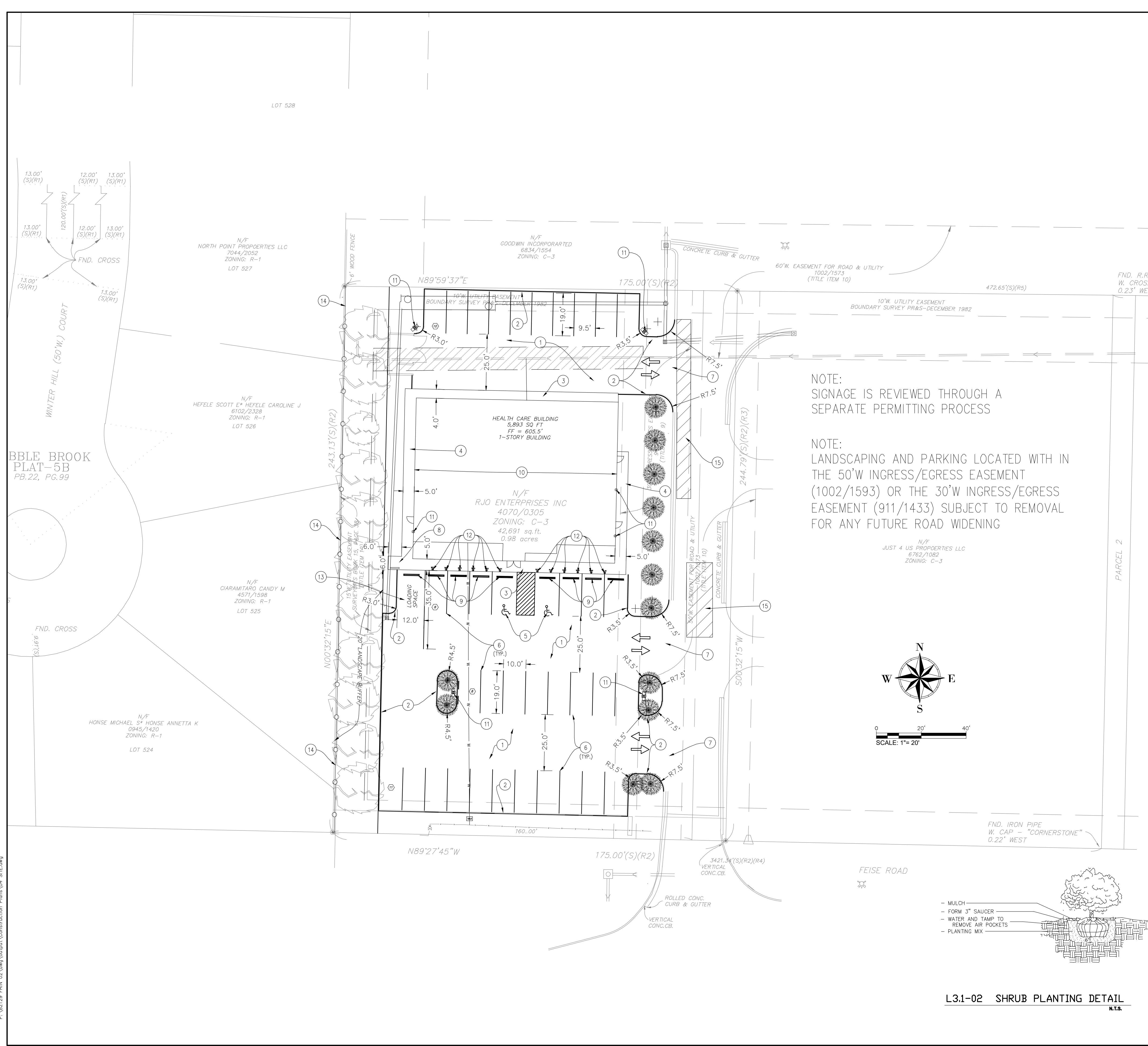
PROJECT No.: 621186	SEQ. No.: 020	DATE: 5/31/2019
DESIGNED: NJC	DRAWN: NJC	
CHECKED:	APPROVED:	
SHEET NO.: C5	OF	C5

I:\PROJECTS\72"Ø UNDERGROUND DETENTION SYSTEM\72"Ø UNDERGROUND DETENTION SYSTEM - 621186-020\72"Ø UNDERGROUND DETENTION SYSTEM - 621186-020.DWG 11/11/2019 1:28 PM

# **Appendix “C”**

## **Site Plan, Grading Plan, and Drainage Area Maps**





**UTILITIES NOTE**

UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UTILITIES LOCATED IN THE FIELD PRIOR TO EXCAVATION OR CONSTRUCTION.



**SITE PLAN NOTES**

- IT IS THE RESPONSIBILITY OF ALL CONTRACTORS CONTACT UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION ON OR RELATING TO THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE OR ARRANGE FOR THE RELOCATION OF ANY UTILITIES AFFECTED BY THE PROJECT CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF O'FALLON STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS SHOWN HEREON ARE AT FACE OF CURB, UNLESS NOTED OTHERWISE.
- WORK NOT SPECIFICALLY DETAILED OR CALLED OUT HEREON REQUIRED TO COMPLETE THE SITE CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE WORK WHICH IS CALLED OUT HEREON.
- REFER TO ARCHITECTURAL PLANS FOR EXTERIOR SITE LIGHTING, INTERIOR BUILDING UTILITIES AND BUILDING DETAILS.

**SITE PLAN KEYED NOTES**

- PROPOSED CONCRETE PAVEMENT
- PROPOSED 6" VERTICAL CURB
- PROPOSED SIDEWALK TO BE FLUSH WITH PAVEMENT, NO CURB OR RAMPS
- PROPOSED SIDEWALK
- PROPOSED HANDICAP SYMBOL, SIGN, AND STRIPING (ALL TO BE PAINTED BLUE)
- PROPOSED 4" WIDE PARKING STRIPE
- MATCH EXISTING PAVEMENT
- 6'X6' CONCRETE PAD WITH BIKE RACK
- PROPOSED PARKING STOPS
- PROPOSED MEDICAL BUILDING
- PROPOSED LIGHTING STANDARDS
- PROPOSED BOLLARDS
- PROPOSED LOADING SPACE
- PROPOSED 6.5' TALL SIGHT PROOF FENCE
- REMOVE AND REPLACE-IN-KIND ASPHALT PAVEMENT

**PARKING CALCULATIONS**

REQUIRED PARKING SPACES: MEDICAL - ONE (1) SPACE PER 200 SQ. FT. OF FLOOR AREA  
 BUILDING FLOOR AREA = 5,893 SQ. FT.  
 5,893 / 200 = 29 SPACES REQUIRED

PARKING SPACES SHOWN = 37 (INCLUDING 2 ADA SPACES)

**LANDSCAPING PLANS**

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	HEIGHT
	13	PLUM PURPLE-LEAF	PRUNUS CERASIFERA	15'

\*\*CONIFER TREES MUST BE A MINIMUM OF 6' IN HEIGHT.  
 \*\*DECIDUOUS TREES MUST BE A MINIMUM OF 2" IN CALIPER

**LANDSCAPE CALCULATIONS**

STREET TREES: 1 TREE PER EVERY 40.00' OF PUBLIC/Private STREET FRONTAGE.  
 TREES REQUIRED: 373' \* 1 TREE/EVERY 40.00' = 10 REQUIRED  
 SITE TREES: 1 PER 4,000 S.F. OPEN SPACE = 10,018 S.F. OPEN SPACE/4,000 = 3 TREES  
 TREES PROVIDED: 11 STREET TREES + 2 SITE TREES = 13 TREES plus 11 EXISTING TREES TO REMAIN

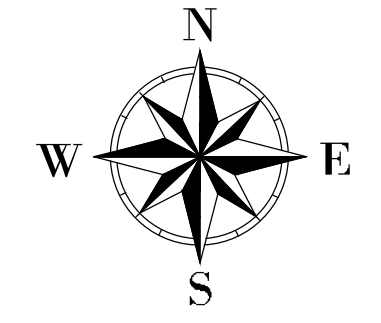
PARKING LOT LANDSCAPING:  
 NUMBER OF PROPOSED PARKING STALLS = 37  
 LANDSCAPING AREA REQUIRED = 37 \* 270 \* 6% = 599 SQ. FT.  
 LANDSCAPING PROVIDED = 1,001 SQ. FT.

**LANDSCAPE BUFFER**

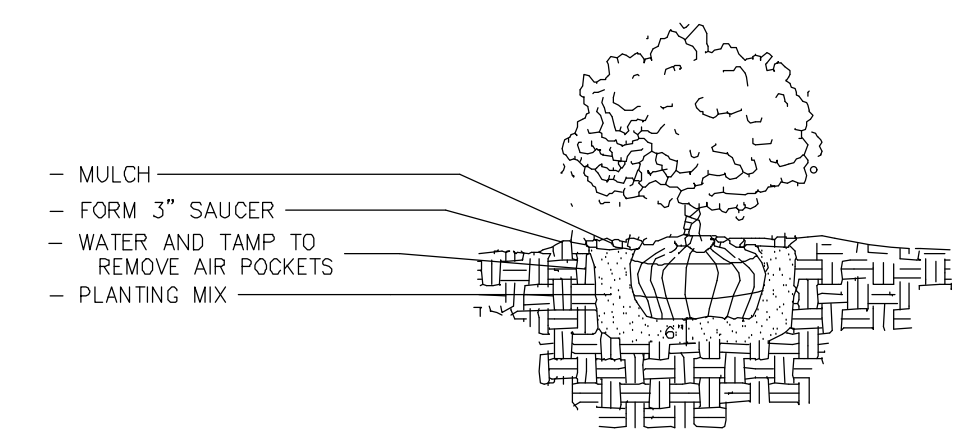
LANDSCAPE BUFFER REQUIRED: 2 PLANT UNITS AND 6 FOOT HIGH SIGHT PROOF FENCE PER 100 FEET OF FRONTAGE REQUIRING BUFFER  
 TREES REQUIRED: 243' \* 2 TREE/EVERY 100.00' = 5 REQUIRED  
 EXISTING TREES: 11 TREES EXISTING IN LANDSCAPE BUFFER

NOTE:  
SIGNAGE IS REVIEWED THROUGH A SEPARATE PERMITTING PROCESS

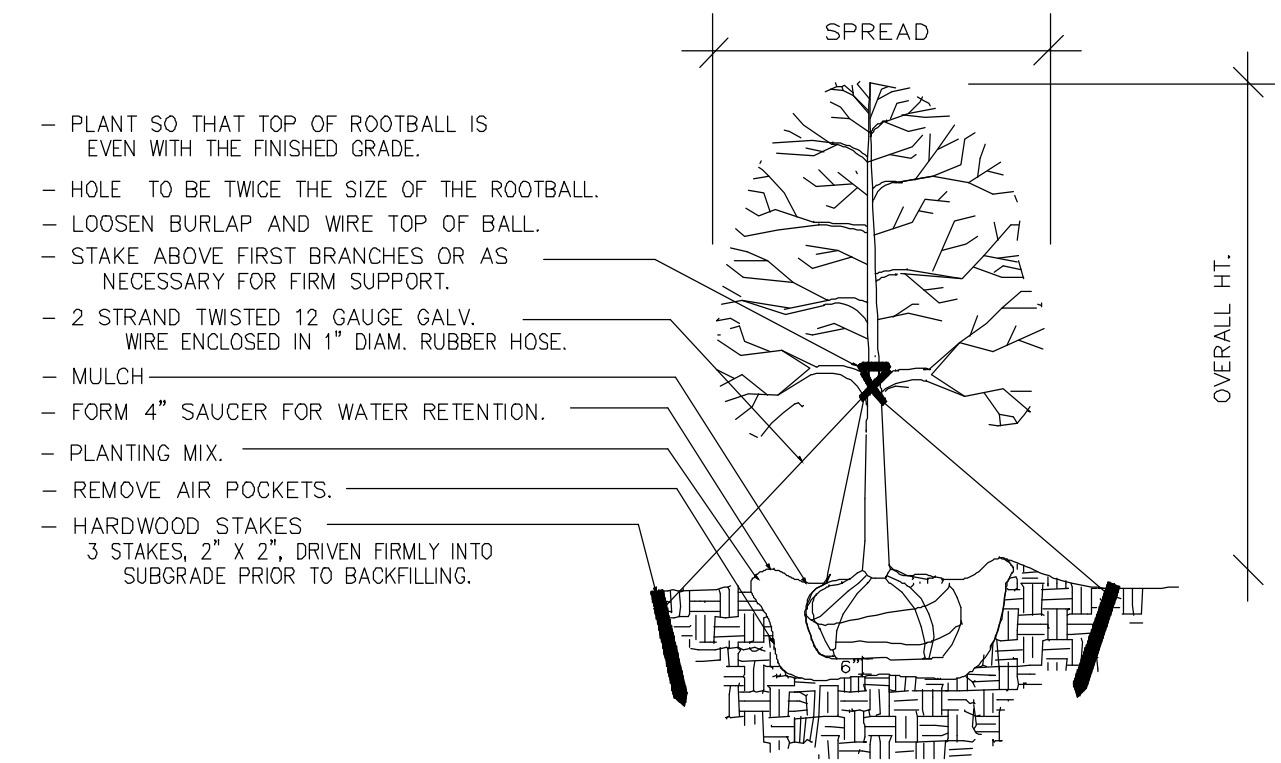
NOTE:  
LANDSCAPING AND PARKING LOCATED WITH IN THE 50'W INGRESS/EGRESS EASEMENT (1002/1593) OR THE 30'W INGRESS/EGRESS EASEMENT (911/1433) SUBJECT TO REMOVAL FOR ANY FUTURE ROAD WIDENING



SCALE: 1" = 20'



L3.1-02 SHRUB PLANTING DETAIL N.T.S.

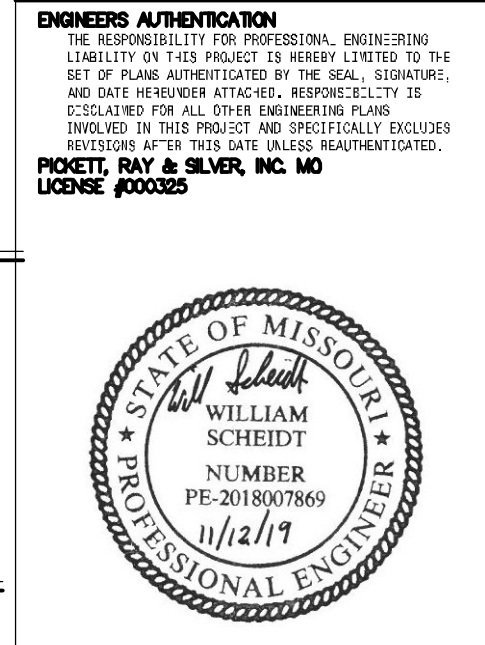


L3.1-01 TREE STAKING/PLANTING DETAIL N.T.S.

PROJECT TITLE  
**SITE PLAN**  
 FRONTIER INTEGRATED HEALTH  
 CENTER, INC  
 PRS No. 82129.FRIN.02R  
 TASK 002

St. Peters  
 22 Richmond Center Court  
 St. Peters, MO 65276  
 Phone (636) 397-1211  
 Fax (636) 397-1104  
 www.prs8.com

**Pickett Ray & Silver**  
 Civil Engineering & Land Surveying  
 Beyond Standard



WILL SCHREDT, P.E.  
 PROFESSIONAL ENGINEER LICENSE 2018007869

Developer / Owner Information  
**RJO Enterprises Inc.**  
 2011 Highway K  
 O'Fallon, Missouri 63366

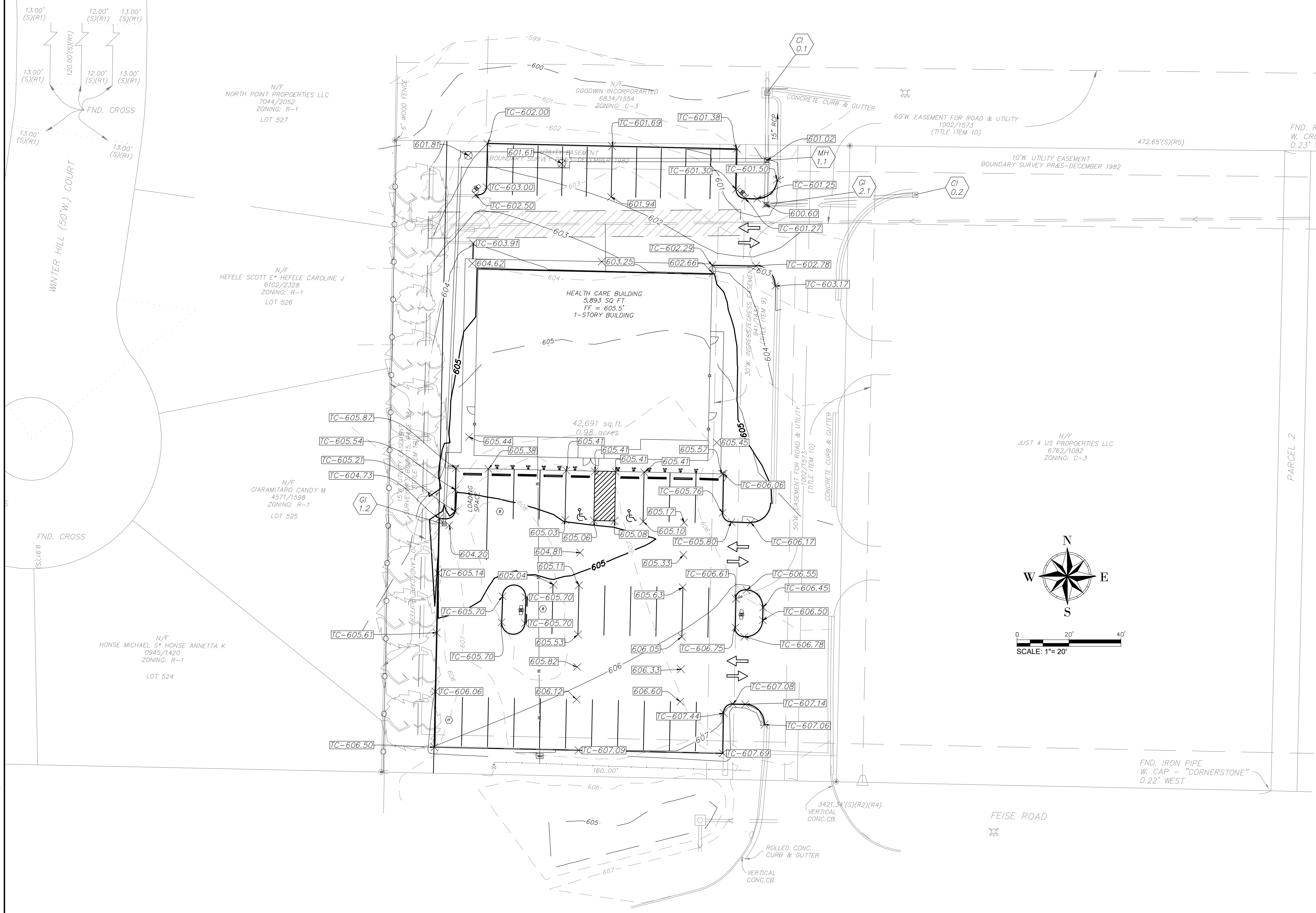
P+Z No. 19-000007  
 City No. 19-002258

SITE PLAN  
 Page No. 4 of 14

\*\*\* 11/12/2019 IMPROVEMENT PLAN SUBMITTAL - NOT APPROVED \*\*\*

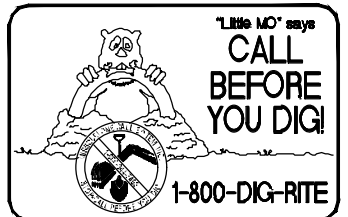


LOT 528



**UTILITIES NOTE**

UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UTILITIES LOCATED IN THE FIELD PRIOR TO EXCAVATION OR CONSTRUCTION.

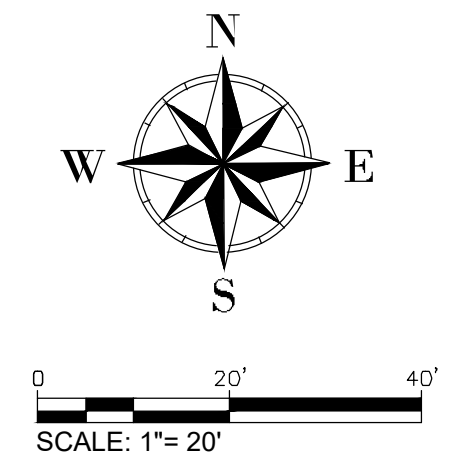


**GRADING AND EROSION CONTROL PLAN NOTES**

1. CONTRACTOR SHALL MAINTAIN EROSION CONTROL AND POSITIVE STORM WATER RUNOFF DURING CONSTRUCTION. ALL SILT AND OTHER DEBRIS SHOULD BE CONTAINED ON SITE AND THAT INCLUDES BUT NOT LIMITED TO MUD ON CITY STREETS.
2. ALL DISTURBED AREAS NOT PAVED SHALL BE FERTILIZED, SEED, AND MULCHED IN ACCORDANCE WITH THE CITY OF O'FALLON STANDARDS AT THE CONCLUSION OF THE GRADING OPERATIONS.
3. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT THE ADJOINING PROPERTIES FROM THE DELETERIOUS EFFECTS OF EROSION UNTIL PROJECT COMPLETION AND ACCEPTANCE.
4. SOIL UNDER PAVED AREAS SHALL BE COMPACTED IN ACCORDANCE WITH THE CITY OF FESTUS STANDARD SPECIFICATIONS FOR STREET CONSTRUCTION.
5. ALL FINISHED GRADE SPOT ELEVATIONS INDICATED HEREON AT CONCRETE CURB SECTIONS ARE THE PROPOSED FINISHED GUTTER ELEVATION, UNLESS OTHERWISE NOTED.
6. ALL FINISHED GRADE CONTOURS ARE TO THE TOP OF THE FINAL SURFACE COURSE OF CONCRETE OR EARTH.
7. 6" OF TOPSOIL SHALL BE STRIPPED UNDER ALL FILL AREAS.
8. REFER TO SHEET 11 FOR EROSION CONTROL NOTES AND DETAILS.
9. FULL TRENCH DEPTH COMPACTED GRANULAR BACKFILL AT ALL LOCATIONS WHERE PROPOSED UTILITIES CROSS UNDER PROPOSED PAVEMENT AREAS.
10. WHEN ROCK IS ENCOUNTERED IN PIPE TRENCHES, A MINIMUM 6" CUSHION OF CRUSHED AGGREGATE IS REQUIRED.
11. EROSION CONTROL BLANKET OR SOD SHALL BE PLACED ON SLOPES THAT ARE GREATER THAN 3:1.
12. EROSION CONTROL MEASURES WILL BE MAINTAINED BY THE CONTRACTOR UNTIL APPROVED PERMANENT VEGETATION IS ESTABLISHED.
13. ALL SIDEWALKS AND HANDICAPPED STALLS AND ACCESSIBLE ROUTES SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS.
14. ALL WALKS TO HAVE CROSS SLOPE DRAINING AWAY FROM BUILDING. MAXIMUM CROSS SLOPE GRADE TO BE 2.0%

**LEGEND**

E-Z W	XXX.XX	= SPOT ELEVATION (TOP OF PAVEMENT)
18.3	TC-XXX.XX	= TOP OF CURB ELEVATION
PAI	FF-XXX.XX	= FINISHED FLOOR ELEVATION
	xxx.xx	= EXISTING ELEVATION



**PROJECT TITLE**  
**SITE PLAN**  
**FRONTIER INTEGRATED HEALTH CENTER, INC**

**St. Peters**  
 22 Richmond Center Court  
 St. Peters, MO 65276  
 Phone (636) 397-1211  
 Fax (636) 397-1104  
 www.prs8.com



**ENGINEERS AUTHENTICATION**  
 WILLIAM S. SCHREDT  
 PROFESSIONAL ENGINEER  
 NUMBER PE-2018007869  
 11/21/19



WILL SO-6101, P.E.  
 PROFESSIONAL ENGINEER LICENSE 2018007869

**Developer / Owner Information**  
 RJO Enterprises Inc.  
 2011 Highway K  
 O'Fallon, Missouri 63366

**P+Z No.**  
19-000007  
**City No.**  
19-002258

**GRADING PLAN**  
**Page No.**  
6 of 14

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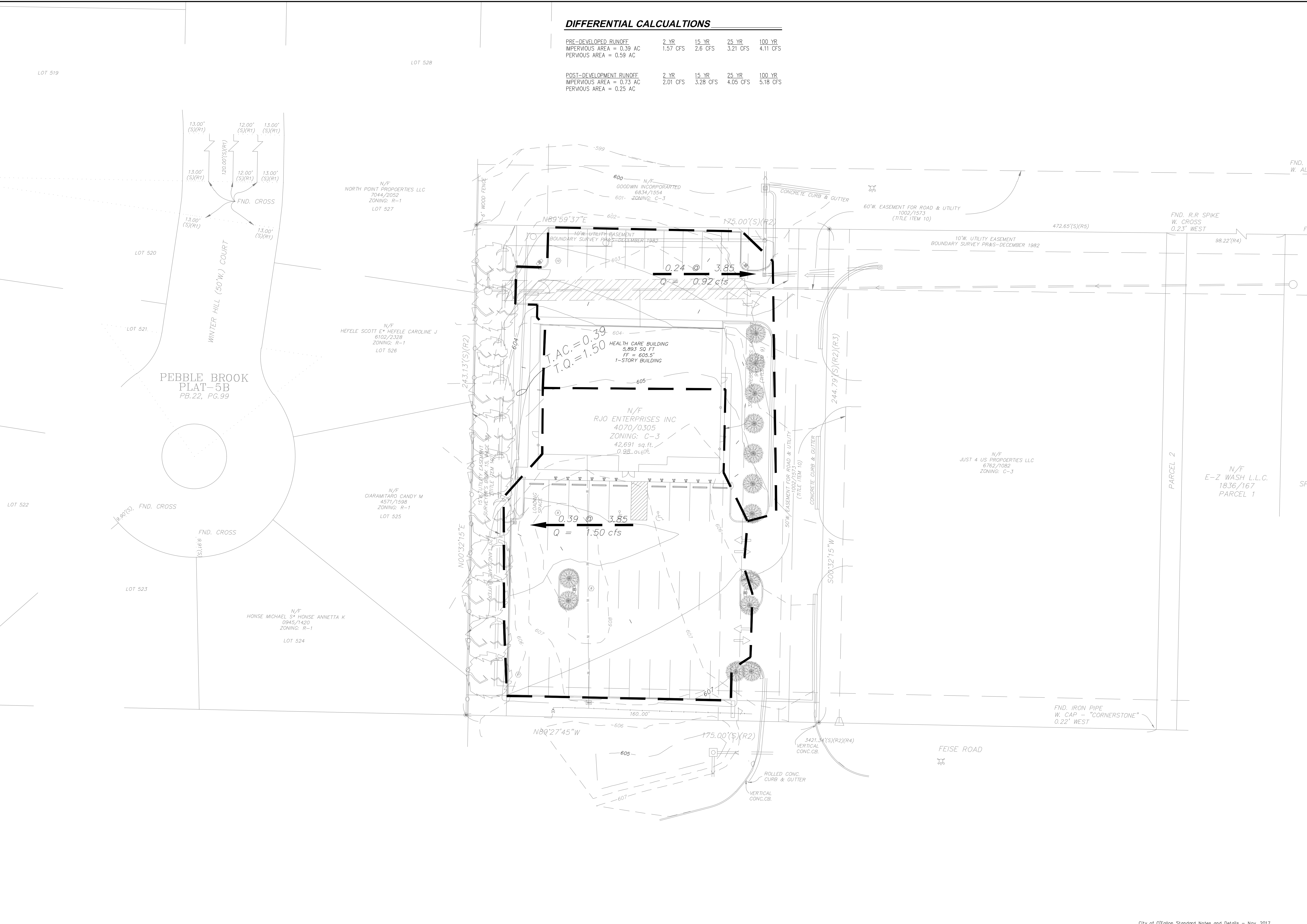
**DIFFERENTIAL CALCUALTIONS**

PRE-DEVELOPED RUNOFF  
 IMPERVIOUS AREA = 0.39 AC  
 PERVIOUS AREA = 0.59 AC

2 YR	15 YR	25 YR	100 YR
1.57 CFS	2.6 CFS	3.21 CFS	4.11 CFS

POST-DEVELOPMENT RUNOFF  
 IMPERVIOUS AREA = 0.73 AC  
 PERVIOUS AREA = 0.25 AC

2 YR	15 YR	25 YR	100 YR
2.01 CFS	3.28 CFS	4.05 CFS	5.18 CFS

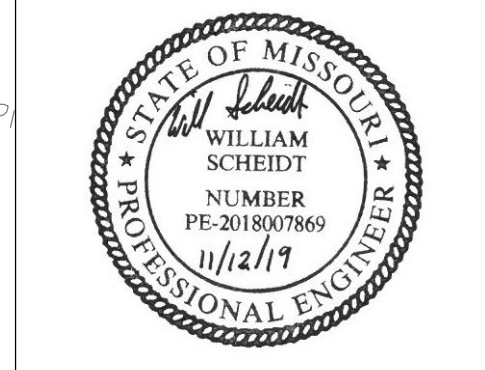


**PROJECT TITLE**  
**SITE PLAN**  
**FRONTIER INTEGRATED HEALTH**  
**CENTER, INC**

**St. Peters**  
 22 Richmond Center Court  
 St. Peters, MO 65276  
 Phone (636) 397-1211  
 Fax (636) 397-1104  
 www.prs.com



**ENGINEERS AUTHENTICATION**  
 THE RESPONSIBILITY FOR PROFESSIONAL ENGINEERING LIABILITY ON THIS PROJECT IS HEREBY LIMITED TO THE SET OF PLANS AUTHENTICATED BY THE SEAL, SIGNATURE, AND DATE HEREON ATTACHED. RESPONSIBILITY IS EXCLUDED FOR ALL OTHER ENGINEERING PLANS INVOLVED IN THIS PROJECT AND SPECIFICALLY EXCLUDED HEREON AS OF THIS DATE, UNLESS REAUTHENTICATED.  
**PICKETT, RAY & SILVER, P.C. MO 16**  
 LICENSE #0026



WILL SCHEIDT, P.E.  
 PROFESSIONAL ENGINEER LICENSE 2018007869

**Developer / Owner Information**  
**RJO Enterprises Inc.**  
 2011 Highway K  
 O'Fallon, Missouri 63366

**P+Z No.**  
 19-000007  
**City No.**  
 19-002258

**DRAINAGE AREA MAP**  
 Page No.  
 9 of 14

\*\*\* 11/12/2019 IMPROVEMENT PLAN SUBMITTAL - NOT APPROVED \*\*\*

# **Appendix “D”**

## **Soils Report**





United States  
Department of  
Agriculture

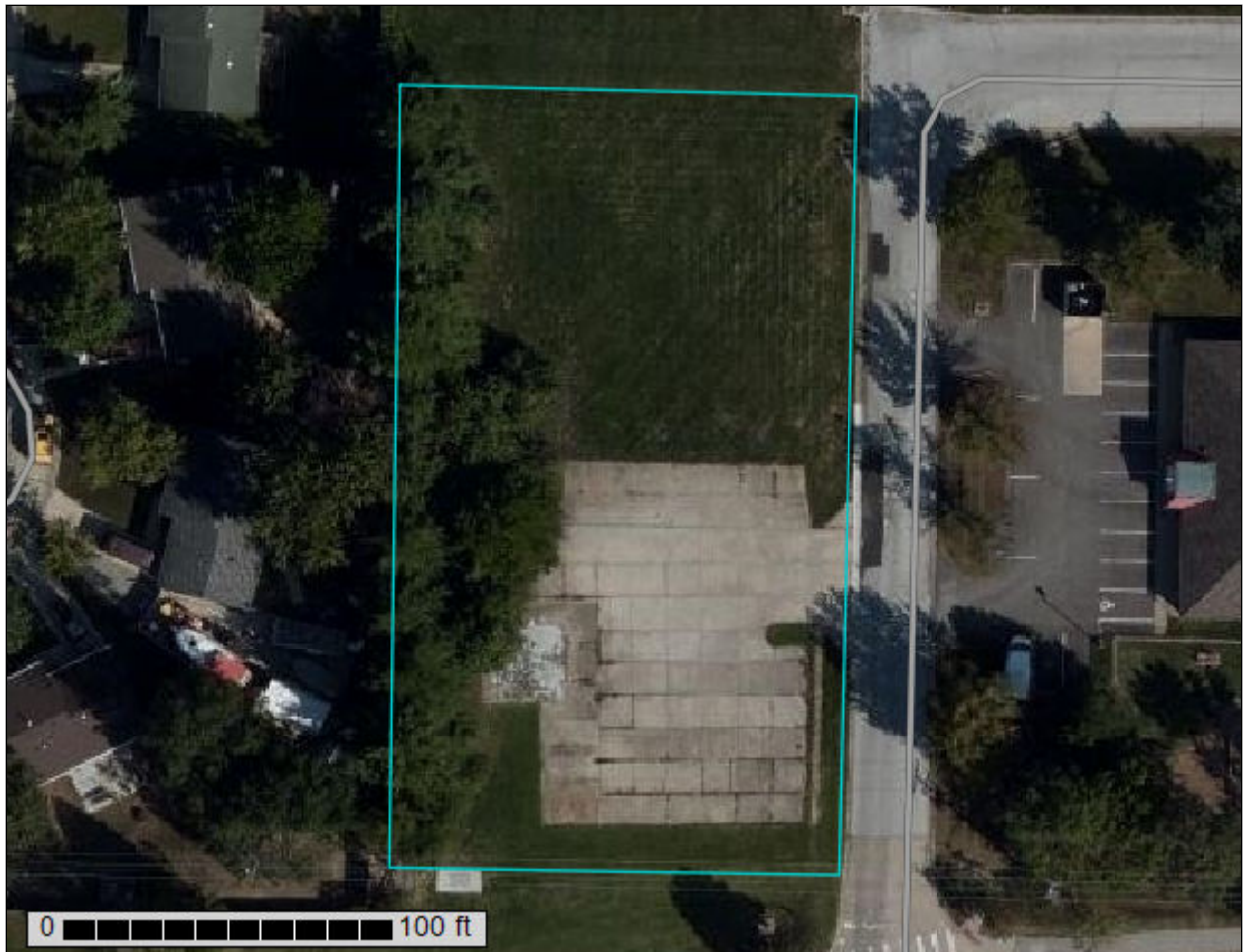
**NRCS**

Natural  
Resources  
Conservation  
Service

A product of the National  
Cooperative Soil Survey,  
a joint effort of the United  
States Department of  
Agriculture and other  
Federal agencies, State  
agencies including the  
Agricultural Experiment  
Stations, and local  
participants

# Custom Soil Resource Report for **St. Charles County, Missouri**

**199 Frontier Park Drive**



November 8, 2019

# Preface

---

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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# How Soil Surveys Are Made

---

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

## Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

## Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

---

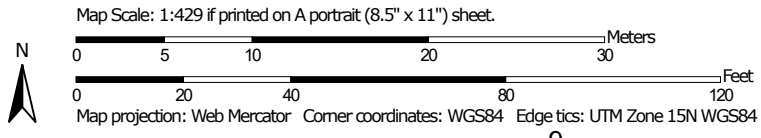
The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



# Custom Soil Resource Report Soil Map



Soil Map may not be valid at this scale.



### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)

**Soils**

 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

**Special Point Features**






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: St. Charles County, Missouri  
 Survey Area Data: Version 19, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 17, 2018—Oct 24, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
60124	Harvester-Urban land complex, 2 to 9 percent slopes	0.8	100.0%
<b>Totals for Area of Interest</b>		<b>0.8</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

## Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## St. Charles County, Missouri

### 60124—Harvester-Urban land complex, 2 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 6604  
*Mean annual precipitation:* 37 to 47 inches  
*Mean annual air temperature:* 52 to 57 degrees F  
*Frost-free period:* 184 to 228 days  
*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Harvester and similar soils:* 60 percent  
*Urban land:* 30 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Harvester

##### Setting

*Landform:* Ridges, hillslopes  
*Landform position (two-dimensional):* Summit, footslope, backslope  
*Landform position (three-dimensional):* Interfluve, base slope, side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex, linear  
*Parent material:* Loess

##### Typical profile

*C1 - 0 to 5 inches:* silt loam  
*C2 - 5 to 80 inches:* silty clay loam

##### Properties and qualities

*Slope:* 2 to 9 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Moderately well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.14 to 0.57 in/hr)  
*Depth to water table:* About 30 to 36 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* Moderate (about 9.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C  
*Ecological site:* Deep Loess Upland Woodland (F115BY001MO)  
*Other vegetative classification:* Trees/Timber (Woody Vegetation)  
*Hydric soil rating:* No

#### Description of Urban Land

##### Interpretive groups

*Land capability classification (irrigated):* None specified

## Custom Soil Resource Report

*Land capability classification (nonirrigated): 8*  
*Hydric soil rating: No*

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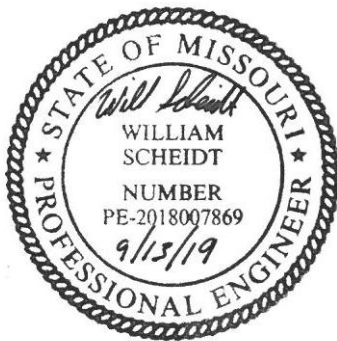
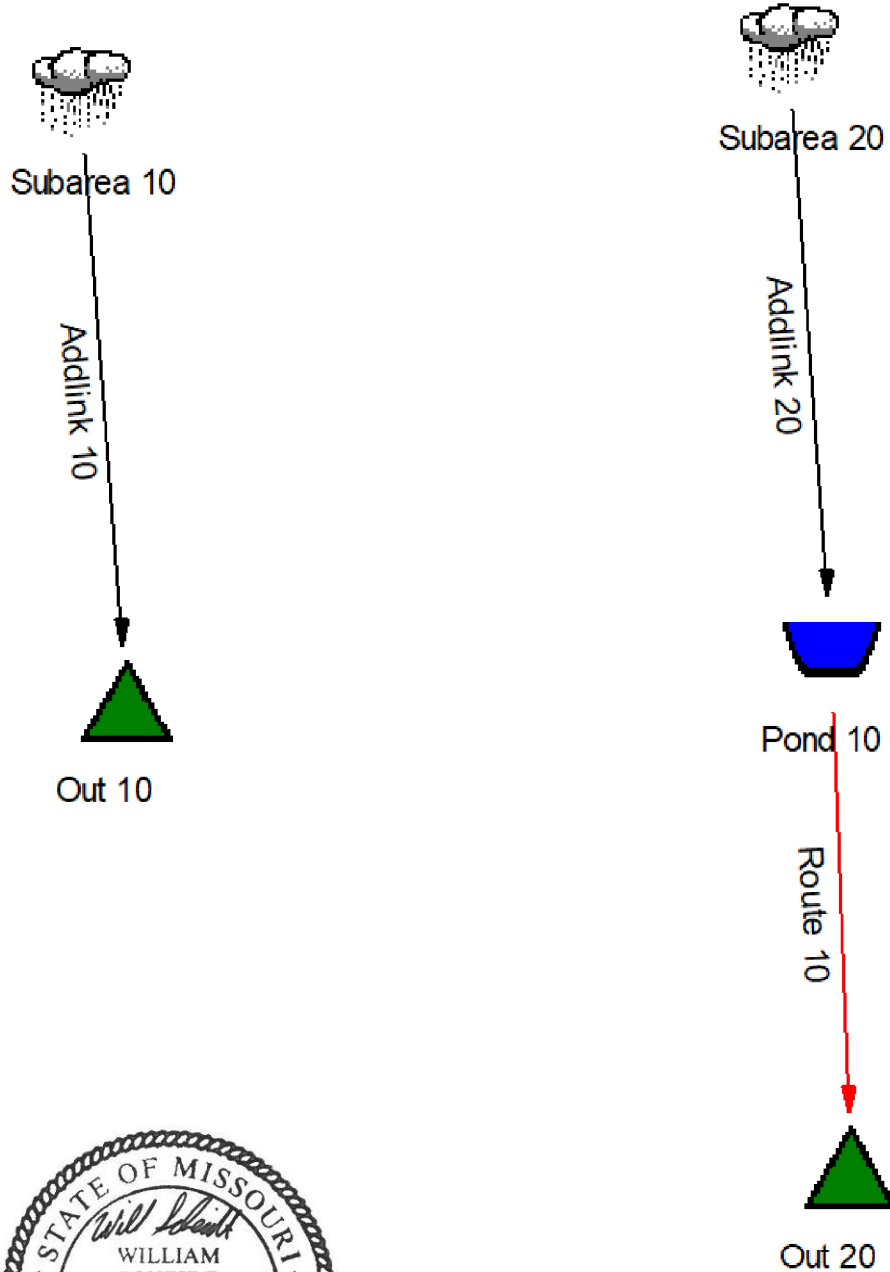


# **Appendix “E”**

## **PondPack Report**

# PondPack Analysis

Frontier Integrated Health Center



Job File: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
Rain Dir: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

=====  
JOB TITLE  
=====

Project Date: 3/19/2019  
Project Engineer: PRS\wscheidt  
Project Title: Watershed  
Project Comments:

S/N:  
PondPack Ver:                      Compute Time:                      Date:



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S/N: PondPack Ver: Compute Time: Date:

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\*\*\*\*\* TIME VS.VOL \*\*\*\*\*

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POND 10	OUT 15	Time vs. Volume .....	11.07
POND 10	OUT 25	Time vs. Volume .....	11.13
POND 10	OUT 50	Time vs. Volume .....	11.19
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ROUTE 10.....	100	Diverted Hydrograph .....	14.96

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Type.... WARNING MESSAGES

Page 1.01

Name.... WARNING

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

WARNING: Kr (Reverse Flow Entrance Loss Coefficient) was not specified.  
 Kr was set to same value as Ke= .2  
 Check data for..... Type: Outlet Input Data Name: Outlet 1

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Master Network Summary

Page 2.01

Name.... Watershed

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

MASTER DESIGN STORM SUMMARY

Network Storm Collection: Wentzville

Return Event	Total Depth in	Rainfall Type	RNF ID	
2	3.1000	Synthetic Curve	TypeII	24hr
15	5.0300	Synthetic Curve	TypeII	24hr
25	5.6000	Synthetic Curve	TypeII	24hr
50	6.3800	Synthetic Curve	TypeII	24hr
100	7.2100	Synthetic Curve	TypeII	24hr

MASTER NETWORK SUMMARY  
 SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversion;)  
 (Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Max

Pond Storage Node ID ac-ft	Return Type	Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft
*OUT 10	JCT	2	.069		11.9200	1.29	
*OUT 10	JCT	15	.130		11.9200	2.35	
*OUT 10	JCT	25	.149		11.9200	2.66	
*OUT 10	JCT	50	.174		11.9200	3.08	

*OUT 10	JCT	100	.201	11.9200	3.53
*OUT 20	JCT	2	.094	12.0200	1.17
*OUT 20	JCT	15	.159	11.9200	2.67
*OUT 20	JCT	25	.178	11.9000	2.90
*OUT 20	JCT	50	.204	11.9200	3.31
*OUT 20	JCT	100	.231	11.9200	3.74
POND 10	IN POND	2	.096	11.9200	1.59
POND 10	IN POND	15	.160	11.9200	2.61
POND 10	IN POND	25	.179	11.9200	2.91
POND 10	IN POND	50	.205	11.9200	3.31
POND 10	IN POND	100	.232	11.9200	3.75

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Master Network Summary

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Name.... Watershed

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

MASTER NETWORK SUMMARY  
SCS Unit Hydrograph Method

(\*Node=Outfall; +Node=Diversion;)  
(Trun= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left&Rt)

Max

Pond Storage Node ID ac-ft	Type	Return Event	HYG Vol ac-ft	Trun	Qpeak hrs	Qpeak cfs	Max WSEL ft
POND 10 .011	OUT POND	2	.094		12.0200	1.17	594.82
POND 10 .014	OUT POND	15	.159		11.9200	2.67	595.40
POND 10 .015	OUT POND	25	.178		11.9000	2.90	595.42
POND 10 .015	OUT POND	50	.204		11.9200	3.31	595.46
POND 10 .015	OUT POND	100	.231		11.9200	3.74	595.51
SUBAREA 10	AREA	2	.069		11.9200	1.29	

SUBAREA 10	AREA	15	.130	11.9200	2.35
SUBAREA 10	AREA	25	.149	11.9200	2.66
SUBAREA 10	AREA	50	.174	11.9200	3.08
SUBAREA 10	AREA	100	.201	11.9200	3.53
SUBAREA 20	AREA	2	.096	11.9200	1.59
SUBAREA 20	AREA	15	.160	11.9200	2.61
SUBAREA 20	AREA	25	.179	11.9200	2.91
SUBAREA 20	AREA	50	.205	11.9200	3.31
SUBAREA 20	AREA	100	.232	11.9200	3.75

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Executive Summary (Nodes)

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Name.... Watershed

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

NETWORK SUMMARY -- NODES

(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File, ID = Wentzville

Storm Tag Name = 2

-----  
 Data Type, File, ID = Synthetic Storm TypeII 24hr

Storm Frequency = 2 yr

Total Rainfall Depth= 3.1000 in

Duration Multiplier = 1

Resulting Duration = 24.0000 hrs

Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Node ID	Type	HYG Vol ac-ft	Qpeak Trun. hrs	Qpeak cfs	Max WSEL ft
-----	-----	-----	-----	-----	-----
Outfall OUT 10	JCT	.069	11.9200	1.29	
Outfall OUT 20	JCT	.094	12.0200	1.17	
POND 10 IN	POND	.096	11.9200	1.59	
POND 10 OUT	POND	.094	12.0200	1.17	594.82
SUBAREA 10	AREA	.069	11.9200	1.29	
SUBAREA 20	AREA	.096	11.9200	1.59	

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Executive Summary (Links)

Page 3.02

Name.... Watershed

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 2

NETWORK SUMMARY -- LINKS  
 (UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File, ID = Wentzville

Storm Tag Name = 2

-----  
 Data Type, File, ID = Synthetic Storm TypeII 24hr  
 Storm Frequency = 2 yr  
 Total Rainfall Depth= 3.1000 in  
 Duration Multiplier = 1  
 Resulting Duration = 24.0000 hrs  
 Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Link ID	Type		HYG Vol ac-ft	Trun.	Peak Time hrs	Peak Q cfs	End Points
ADDLINK 10	ADD	UN	.069		11.9200	1.29	SUBAREA 10
		DL	.069		11.9200	1.29	
		DN	.069		11.9200	1.29	OUT 10
ADDLINK 20	ADD	UN	.096		11.9200	1.59	SUBAREA 20
		DL	.096		11.9200	1.59	
		DN	.096		11.9200	1.59	POND 10 IN
ROUTE 10	PONDrt	UN	.096		11.9200	1.59	POND 10 IN
ROUTE 10			.094		12.0200	1.17	POND 10 OUT
		DL	.094		12.0200	1.17	
		DN	.094		12.0200	1.17	OUT 20

S/N:  
 PondPack Ver: Compute Time: Date:

↑  
 Type.... Executive Summary (Nodes) Page 3.03  
 Name.... Watershed Event: 15 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 15

NETWORK SUMMARY -- NODES  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File, ID = Wentzville

Storm Tag Name = 15

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 15 yr  
Total Rainfall Depth= 5.0300 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Node ID	Type	HYG Vol ac-ft	Qpeak Trun. hrs	Qpeak cfs	Max WSEL ft
-----	-----	-----	-----	-----	-----
Outfall OUT 10	JCT	.130	11.9200	2.35	
Outfall OUT 20	JCT	.159	11.9200	2.67	
POND 10 IN	POND	.160	11.9200	2.61	
POND 10 OUT	POND	.159	11.9200	2.67	595.40
SUBAREA 10	AREA	.130	11.9200	2.35	
SUBAREA 20	AREA	.160	11.9200	2.61	

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Executive Summary (Links)

Page 3.04

Name.... Watershed

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

NETWORK SUMMARY -- LINKS

(UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)

(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File, ID = Wentzville

Storm Tag Name = 15

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 15 yr  
Total Rainfall Depth= 5.0300 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Link ID	Type	HYG Vol ac-ft	Peak Time Trun. hrs	Peak Q cfs	End Points
-----	-----	-----	-----	-----	-----
ADDLINK 10	ADD	.130	11.9200	2.35	SUBAREA 10
	DL	.130	11.9200	2.35	
	DN	.130	11.9200	2.35	OUT 10

ADDLINK 20	ADD	UN	.160	11.9200	2.61	SUBAREA 20	
		DL	.160	11.9200	2.61		
		DN	.160	11.9200	2.61	POND 10	IN
ROUTE 10	PONDrt	UN	.160	11.9200	2.61	POND 10	IN
ROUTE 10			.159	11.9200	2.67	POND 10	OUT
		DL	.159	11.9200	2.67		
		DN	.159	11.9200	2.67	OUT 20	

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Executive Summary (Nodes) Page 3.05  
 Name.... Watershed Event: 25 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 25

NETWORK SUMMARY -- NODES

(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File, ID = Wentzville

Storm Tag Name = 25

-----  
 Data Type, File, ID = Synthetic Storm TypeII 24hr  
 Storm Frequency = 25 yr  
 Total Rainfall Depth= 5.6000 in  
 Duration Multiplier = 1  
 Resulting Duration = 24.0000 hrs  
 Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Node ID	Type	HYG Vol ac-ft	Qpeak Trun. hrs	Qpeak cfs	Max WSEL ft
-----					
Outfall OUT 10	JCT	.149	11.9200	2.66	
Outfall OUT 20	JCT	.178	11.9000	2.90	
POND 10	IN POND	.179	11.9200	2.91	
POND 10	OUT POND	.178	11.9000	2.90	595.42
SUBAREA 10	AREA	.149	11.9200	2.66	
SUBAREA 20	AREA	.179	11.9200	2.91	

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Executive Summary (Links) Page 3.06  
 Name.... Watershed Event: 25 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 25

NETWORK SUMMARY -- LINKS  
 (UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File, ID = Wentzville

Storm Tag Name = 25

-----  
 Data Type, File, ID = Synthetic Storm TypeII 24hr  
 Storm Frequency = 25 yr  
 Total Rainfall Depth= 5.6000 in  
 Duration Multiplier = 1  
 Resulting Duration = 24.0000 hrs  
 Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Link ID	Type		HYG Vol ac-ft	Trun.	Peak Time hrs	Peak Q cfs	End Points
ADDLINK 10	ADD	UN	.149		11.9200	2.66	SUBAREA 10
		DL	.149		11.9200	2.66	
		DN	.149		11.9200	2.66	OUT 10
ADDLINK 20	ADD	UN	.179		11.9200	2.91	SUBAREA 20
		DL	.179		11.9200	2.91	
		DN	.179		11.9200	2.91	POND 10 IN
ROUTE 10	PONDrt	UN	.179		11.9200	2.91	POND 10 IN
ROUTE 10			.178		11.9000	2.90	POND 10 OUT
		DL	.178		11.9000	2.90	
		DN	.178		11.9000	2.90	OUT 20

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Executive Summary (Nodes)

Page 3.07

Name.... Watershed

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

NETWORK SUMMARY -- NODES  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File, ID = Wentzville

Storm Tag Name = 50



Data Type, File, ID = Synthetic Storm    TypeII 24hr  
 Storm Frequency        = 50 yr  
 Total Rainfall Depth= 6.3800 in  
 Duration Multiplier = 1  
 Resulting Duration = 24.0000 hrs  
 Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Node ID	Type	HYG Vol ac-ft	Qpeak Trun. hrs	Qpeak cfs	Max WSEL ft
Outfall OUT 10	JCT	.174	11.9200	3.08	
Outfall OUT 20	JCT	.204	11.9200	3.31	
POND 10	IN POND	.205	11.9200	3.31	
POND 10	OUT POND	.204	11.9200	3.31	595.46
SUBAREA 10	AREA	.174	11.9200	3.08	
SUBAREA 20	AREA	.205	11.9200	3.31	

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Executive Summary (Links)

Page 3.08

Name.... Watershed

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

NETWORK SUMMARY -- LINKS

(UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)

(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File, ID = Wentzville

Storm Tag Name        =    50

-----  
 Data Type, File, ID = Synthetic Storm    TypeII 24hr  
 Storm Frequency        = 50 yr  
 Total Rainfall Depth= 6.3800 in  
 Duration Multiplier = 1  
 Resulting Duration = 24.0000 hrs  
 Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Link ID	Type	HYG Vol ac-ft	Peak Time Trun. hrs	Peak Q cfs	End Points
ADDLINK 10	ADD UN	.174	11.9200	3.08	SUBAREA 10
	DL	.174	11.9200	3.08	
	DN	.174	11.9200	3.08	OUT 10
ADDLINK 20	ADD UN	.205	11.9200	3.31	SUBAREA 20
	DL	.205	11.9200	3.31	

		DN	.205	11.9200	3.31	POND 10	IN
ROUTE 10	PONDrt	UN	.205	11.9200	3.31	POND 10	IN
ROUTE 10			.204	11.9200	3.31	POND 10	OUT
		DL	.204	11.9200	3.31		
		DN	.204	11.9200	3.31	OUT 20	

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Executive Summary (Nodes)

Page 3.09

Name.... Watershed

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

NETWORK SUMMARY -- NODES

(Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File,ID = Wentzville

Storm Tag Name = 100

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr

Storm Frequency = 100 yr

Total Rainfall Depth= 7.2100 in

Duration Multiplier = 1

Resulting Duration = 24.0000 hrs

Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Node ID	Type	HYG Vol ac-ft	Qpeak Trun. hrs	Qpeak cfs	Max WSEL ft
-----					
Outfall OUT 10	JCT	.201	11.9200	3.53	
Outfall OUT 20	JCT	.231	11.9200	3.74	
POND 10	IN POND	.232	11.9200	3.75	
POND 10	OUT POND	.231	11.9200	3.74	595.51
SUBAREA 10	AREA	.201	11.9200	3.53	
SUBAREA 20	AREA	.232	11.9200	3.75	

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Executive Summary (Links)

Page 3.10

Name.... Watershed

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

NETWORK SUMMARY -- LINKS

(UN=Upstream Node; DL=DNstream End of Link; DN=DNstream Node)  
 (Trun.= HYG Truncation: Blank=None; L=Left; R=Rt; LR=Left & Rt)

DEFAULT Design Storm File, ID = Wentzville

Storm Tag Name = 100

-----  
 Data Type, File, ID = Synthetic Storm TypeII 24hr  
 Storm Frequency = 100 yr  
 Total Rainfall Depth= 7.2100 in  
 Duration Multiplier = 1  
 Resulting Duration = 24.0000 hrs  
 Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Link ID	Type		HYG Vol ac-ft	Peak Time Trun. hrs	Peak Q cfs	End Points	
ADDLINK 10	ADD	UN	.201	11.9200	3.53	SUBAREA 10	
		DL	.201	11.9200	3.53		
		DN	.201	11.9200	3.53	OUT 10	
ADDLINK 20	ADD	UN	.232	11.9200	3.75	SUBAREA 20	
		DL	.232	11.9200	3.75		
		DN	.232	11.9200	3.75	POND 10	IN
ROUTE 10	PONDrt	UN	.232	11.9200	3.75	POND 10	IN
ROUTE 10			.231	11.9200	3.74	POND 10	OUT
		DL	.231	11.9200	3.74		
		DN	.231	11.9200	3.74	OUT 20	

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Network Calcs Sequence

Page 3.11

Name.... Watershed

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

NETWORK RUNOFF NODE SEQUENCE

Runoff Data	Apply to Node	Receiving Link
SCS UH SUBAREA 10	Subarea SUBAREA 10	Add Hyd SUBAREA 10
SCS UH SUBAREA 20	Subarea SUBAREA 20	Add Hyd SUBAREA 20

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Network Calcs Sequence Page 3.12  
 Name.... Watershed Event: 100 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 100

NETWORK ROUTING SEQUENCE

```

=====
Link Operation                UPstream Node                DNstream Node
=====
Add Hyd ADDLINK 20           Subarea SUBAREA 20           Pond POND 10 IN

POND ROUTE TOTAL OUTFLOW...
Total Pond Outflow          Pond POND 10 IN Outflow POND 10 OUT

SET POND ROUTING LINK TO TOTAL POND OUTFLOW...
Outlet ROUTE 10             Outflow POND 10 OUT Jct OUT 20

Add Hyd ADDLINK 10           Subarea SUBAREA 10           Jct OUT 10
  
```

S/N:  
 PondPack Ver: Compute Time: Date:



Type.... Design Storms Page 4.01  
 Name.... Wentzville  
  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Title... Project Date: 3/19/2019  
           Project Engineer: PRS\wscheidt  
           Project Title: Watershed  
           Project Comments:

DESIGN STORMS SUMMARY

Design Storm File, ID = Wentzville

Storm Tag Name = 2

```

-----
Data Type, File, ID = Synthetic Storm TypeII 24hr
Storm Frequency = 2 yr
Total Rainfall Depth= 3.1000 in
Duration Multiplier = 1
Resulting Duration = 24.0000 hrs
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs
  
```

Storm Tag Name = 15

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 15 yr  
Total Rainfall Depth= 5.0300 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 25

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 25 yr  
Total Rainfall Depth= 5.6000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 50

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 50 yr  
Total Rainfall Depth= 6.3800 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 100

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 100 yr  
Total Rainfall Depth= 7.2100 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Design Storms

Page 4.02

Name.... Wentzville

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
Storm... TypeII 24hr Tag: 2

#### DESIGN STORMS SUMMARY

Design Storm File, ID = Wentzville

Storm Tag Name = 2

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 2 yr  
Total Rainfall Depth= 3.1000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 15

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 15 yr  
Total Rainfall Depth= 5.0300 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 25

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 25 yr  
Total Rainfall Depth= 5.6000 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 50

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 50 yr  
Total Rainfall Depth= 6.3800 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

Storm Tag Name = 100

-----  
Data Type, File, ID = Synthetic Storm TypeII 24hr  
Storm Frequency = 100 yr  
Total Rainfall Depth= 7.2100 in  
Duration Multiplier = 1  
Resulting Duration = 24.0000 hrs  
Resulting Start Time= .0000 hrs Step= .1000 hrs End= 24.0000 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

Page 5.01

Name.... TypeII 24hr Tag: 2

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

CUMULATIVE RAINFALL FRACTIONS

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
.0000	.000	.001	.002	.003	.004
.5000	.005	.006	.007	.008	.009
1.0000	.011	.012	.013	.014	.015
1.5000	.016	.017	.018	.020	.021
2.0000	.022	.023	.024	.026	.027
2.5000	.028	.029	.031	.032	.033
3.0000	.035	.036	.037	.038	.040
3.5000	.041	.042	.044	.045	.047
4.0000	.048	.049	.051	.052	.054
4.5000	.055	.057	.058	.060	.061
5.0000	.063	.065	.066	.068	.070
5.5000	.071	.073	.075	.076	.078
6.0000	.080	.082	.084	.085	.087
6.5000	.089	.091	.093	.095	.097
7.0000	.099	.101	.103	.105	.107
7.5000	.109	.111	.113	.116	.118
8.0000	.120	.122	.125	.127	.130
8.5000	.132	.135	.138	.141	.144
9.0000	.147	.150	.153	.157	.160
9.5000	.163	.166	.170	.173	.177
10.0000	.181	.185	.189	.194	.199
10.5000	.204	.209	.215	.221	.228
11.0000	.235	.243	.251	.261	.271
11.5000	.283	.307	.354	.431	.568
12.0000	.663	.682	.699	.713	.725
12.5000	.735	.743	.751	.759	.766
13.0000	.772	.778	.784	.789	.794
13.5000	.799	.804	.808	.812	.816
14.0000	.820	.824	.827	.831	.834
14.5000	.838	.841	.844	.847	.850
15.0000	.854	.856	.859	.862	.865
15.5000	.868	.870	.873	.875	.878
16.0000	.880	.882	.885	.887	.889
16.5000	.891	.893	.895	.898	.900
17.0000	.902	.904	.906	.908	.910
17.5000	.912	.914	.915	.917	.919
18.0000	.921	.923	.925	.926	.928
18.5000	.930	.931	.933	.935	.936

19.0000	.938	.939	.941	.942	.944
19.5000	.945	.947	.948	.949	.951
20.0000	.952	.953	.955	.956	.957
20.5000	.958	.960	.961	.962	.964
21.0000	.965	.966	.967	.968	.970
21.5000	.971	.972	.973	.975	.976

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

Page 5.02

Name.... TypeII 24hr Tag: 2

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

CUMULATIVE RAINFALL FRACTIONS

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
-----	-----	-----	-----	-----	-----
22.0000	.977	.978	.979	.981	.982
22.5000	.983	.984	.985	.986	.988
23.0000	.989	.990	.991	.992	.993
23.5000	.994	.996	.997	.998	.999
24.0000	1.000				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

Page 5.03

Name.... TypeII 24hr Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 2

CUMULATIVE RAINFALL DEPTHS (in)

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
-----	-----	-----	-----	-----	-----
.0000	.0000	.0031	.0063	.0095	.0126
.5000	.0159	.0192	.0225	.0258	.0292
1.0000	.0326	.0360	.0394	.0429	.0464
1.5000	.0500	.0536	.0572	.0608	.0645
2.0000	.0682	.0720	.0757	.0795	.0833
2.5000	.0872	.0911	.0950	.0990	.1030
3.0000	.1070	.1110	.1151	.1192	.1233
3.5000	.1275	.1317	.1359	.1402	.1445
4.0000	.1488	.1532	.1576	.1621	.1667
4.5000	.1713	.1760	.1807	.1855	.1904
5.0000	.1953	.2003	.2053	.2105	.2156
5.5000	.2209	.2262	.2315	.2370	.2425
6.0000	.2480	.2536	.2593	.2650	.2708
6.5000	.2767	.2826	.2886	.2946	.3007



7.0000	.3069	.3131	.3194	.3258	.3322
7.5000	.3387	.3452	.3518	.3585	.3652
8.0000	.3720	.3790	.3863	.3939	.4018
8.5000	.4100	.4185	.4273	.4365	.4459
9.0000	.4557	.4656	.4755	.4855	.4954
9.5000	.5053	.5155	.5261	.5373	.5489
10.0000	.5611	.5739	.5874	.6016	.6167
10.5000	.6324	.6491	.6671	.6863	.7068
11.0000	.7285	.7523	.7791	.8089	.8416
11.5000	.8773	.9512	1.0985	1.3354	1.7604
12.0000	2.0553	2.1141	2.1658	2.2104	2.2480
12.5000	2.2785	2.3047	2.3292	2.3522	2.3735
13.0000	2.3932	2.4117	2.4293	2.4460	2.4619
13.5000	2.4769	2.4912	2.5048	2.5178	2.5302
14.0000	2.5420	2.5534	2.5645	2.5754	2.5861
14.5000	2.5967	2.6069	2.6170	2.6268	2.6365
15.0000	2.6459	2.6551	2.6640	2.6728	2.6813
15.5000	2.6897	2.6977	2.7056	2.7133	2.7208
16.0000	2.7280	2.7351	2.7421	2.7490	2.7559
16.5000	2.7627	2.7694	2.7760	2.7826	2.7890
17.0000	2.7954	2.8017	2.8080	2.8141	2.8202
17.5000	2.8262	2.8322	2.8380	2.8438	2.8495
18.0000	2.8551	2.8606	2.8661	2.8715	2.8768
18.5000	2.8820	2.8872	2.8923	2.8973	2.9022
19.0000	2.9070	2.9118	2.9165	2.9211	2.9256
19.5000	2.9301	2.9345	2.9388	2.9430	2.9471
20.0000	2.9512	2.9552	2.9592	2.9632	2.9672
20.5000	2.9712	2.9751	2.9790	2.9829	2.9869
21.0000	2.9907	2.9946	2.9984	3.0023	3.0061
21.5000	3.0099	3.0137	3.0175	3.0212	3.0250

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

Page 5.04

Name.... TypeII 24hr Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 2

CUMULATIVE RAINFALL DEPTHS (in)

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs	CUMULATIVE RAINFALL DEPTHS (in)				
22.0000	3.0287	3.0324	3.0361	3.0398	3.0435
22.5000	3.0471	3.0507	3.0544	3.0580	3.0616
23.0000	3.0651	3.0687	3.0722	3.0758	3.0793
23.5000	3.0828	3.0862	3.0897	3.0931	3.0966
24.0000	3.1000				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

Page 5.05

Name.... TypeII 24hr Tag: 15

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

CUMULATIVE RAINFALL FRACTIONS

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs	CUMULATIVE RAINFALL FRACTIONS				
	Output Time increment = .1000 hrs				
	Time on left represents time for first value in each row.				
.0000	.000	.001	.002	.003	.004
.5000	.005	.006	.007	.008	.009
1.0000	.011	.012	.013	.014	.015
1.5000	.016	.017	.018	.020	.021
2.0000	.022	.023	.024	.026	.027
2.5000	.028	.029	.031	.032	.033
3.0000	.035	.036	.037	.038	.040
3.5000	.041	.042	.044	.045	.047
4.0000	.048	.049	.051	.052	.054
4.5000	.055	.057	.058	.060	.061
5.0000	.063	.065	.066	.068	.070
5.5000	.071	.073	.075	.076	.078
6.0000	.080	.082	.084	.085	.087
6.5000	.089	.091	.093	.095	.097
7.0000	.099	.101	.103	.105	.107
7.5000	.109	.111	.113	.116	.118
8.0000	.120	.122	.125	.127	.130
8.5000	.132	.135	.138	.141	.144
9.0000	.147	.150	.153	.157	.160
9.5000	.163	.166	.170	.173	.177
10.0000	.181	.185	.189	.194	.199
10.5000	.204	.209	.215	.221	.228
11.0000	.235	.243	.251	.261	.271
11.5000	.283	.307	.354	.431	.568
12.0000	.663	.682	.699	.713	.725
12.5000	.735	.743	.751	.759	.766
13.0000	.772	.778	.784	.789	.794
13.5000	.799	.804	.808	.812	.816
14.0000	.820	.824	.827	.831	.834
14.5000	.838	.841	.844	.847	.850
15.0000	.854	.856	.859	.862	.865
15.5000	.868	.870	.873	.875	.878
16.0000	.880	.882	.885	.887	.889
16.5000	.891	.893	.895	.898	.900
17.0000	.902	.904	.906	.908	.910
17.5000	.912	.914	.915	.917	.919
18.0000	.921	.923	.925	.926	.928
18.5000	.930	.931	.933	.935	.936
19.0000	.938	.939	.941	.942	.944
19.5000	.945	.947	.948	.949	.951

20.0000	.952	.953	.955	.956	.957
20.5000	.958	.960	.961	.962	.964
21.0000	.965	.966	.967	.968	.970
21.5000	.971	.972	.973	.975	.976

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Synthetic Curve

Page 5.06

Name.... TypeII 24hr Tag: 15

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

CUMULATIVE RAINFALL FRACTIONS

Output Time increment = .1000 hrs  
Time on left represents time for first value in each row.

Time hrs					
22.0000	.977	.978	.979	.981	.982
22.5000	.983	.984	.985	.986	.988
23.0000	.989	.990	.991	.992	.993
23.5000	.994	.996	.997	.998	.999
24.0000	1.000				

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Synthetic Cumulative Depth

Page 5.07

Name.... TypeII 24hr Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 15

CUMULATIVE RAINFALL DEPTHS (in)

Output Time increment = .1000 hrs  
Time on left represents time for first value in each row.

Time hrs					
.0000	.0000	.0051	.0102	.0153	.0205
.5000	.0258	.0311	.0365	.0418	.0473
1.0000	.0528	.0584	.0640	.0697	.0753
1.5000	.0811	.0869	.0928	.0987	.1047
2.0000	.1107	.1167	.1228	.1290	.1352
2.5000	.1415	.1478	.1542	.1606	.1670
3.0000	.1735	.1801	.1867	.1934	.2001
3.5000	.2069	.2137	.2206	.2275	.2344
4.0000	.2414	.2485	.2557	.2630	.2704
4.5000	.2779	.2855	.2932	.3010	.3089
5.0000	.3169	.3250	.3332	.3415	.3499
5.5000	.3584	.3670	.3757	.3845	.3934
6.0000	.4024	.4115	.4207	.4300	.4394
6.5000	.4489	.4585	.4682	.4781	.4880
7.0000	.4980	.5081	.5183	.5286	.5390
7.5000	.5495	.5601	.5709	.5817	.5926

8.0000	.6036	.6149	.6267	.6391	.6519
8.5000	.6652	.6791	.6934	.7082	.7236
9.0000	.7394	.7555	.7716	.7877	.8038
9.5000	.8199	.8364	.8537	.8718	.8907
10.0000	.9104	.9312	.9531	.9762	1.0006
10.5000	1.0261	1.0533	1.0825	1.1136	1.1468
11.0000	1.1821	1.2207	1.2641	1.3124	1.3655
11.5000	1.4235	1.5434	1.7824	2.1669	2.8563
12.0000	3.3349	3.4303	3.5142	3.5866	3.6476
12.5000	3.6971	3.7395	3.7793	3.8166	3.8512
13.0000	3.8832	3.9131	3.9417	3.9689	3.9946
13.5000	4.0190	4.0421	4.0642	4.0854	4.1055
14.0000	4.1246	4.1431	4.1611	4.1789	4.1962
14.5000	4.2133	4.2299	4.2463	4.2622	4.2779
15.0000	4.2931	4.3080	4.3226	4.3368	4.3506
15.5000	4.3642	4.3773	4.3901	4.4026	4.4147
16.0000	4.4264	4.4379	4.4493	4.4606	4.4717
16.5000	4.4827	4.4936	4.5043	4.5149	4.5254
17.0000	4.5358	4.5461	4.5562	4.5662	4.5760
17.5000	4.5858	4.5954	4.6049	4.6143	4.6235
18.0000	4.6326	4.6416	4.6505	4.6592	4.6678
18.5000	4.6763	4.6847	4.6929	4.7010	4.7090
19.0000	4.7169	4.7246	4.7322	4.7397	4.7471
19.5000	4.7543	4.7614	4.7684	4.7752	4.7820
20.0000	4.7886	4.7951	4.8016	4.8081	4.8145
20.5000	4.8210	4.8273	4.8337	4.8401	4.8464
21.0000	4.8527	4.8590	4.8652	4.8715	4.8776
21.5000	4.8838	4.8900	4.8961	4.9022	4.9083

S/N:

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Compute Time:

Date:



Type.... Synthetic Cumulative Depth

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Name.... TypeII 24hr Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 15

CUMULATIVE RAINFALL DEPTHS (in)

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

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22.0000	4.9143	4.9203	4.9263	4.9323	4.9383
22.5000	4.9442	4.9501	4.9560	4.9618	4.9676
23.0000	4.9734	4.9792	4.9849	4.9907	4.9963
23.5000	5.0020	5.0077	5.0133	5.0189	5.0245
24.0000	5.0300				

S/N:

PondPack Ver:

Compute Time:

Date:



CUMULATIVE RAINFALL FRACTIONS

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
.0000	.000	.001	.002	.003	.004
.5000	.005	.006	.007	.008	.009
1.0000	.011	.012	.013	.014	.015
1.5000	.016	.017	.018	.020	.021
2.0000	.022	.023	.024	.026	.027
2.5000	.028	.029	.031	.032	.033
3.0000	.035	.036	.037	.038	.040
3.5000	.041	.042	.044	.045	.047
4.0000	.048	.049	.051	.052	.054
4.5000	.055	.057	.058	.060	.061
5.0000	.063	.065	.066	.068	.070
5.5000	.071	.073	.075	.076	.078
6.0000	.080	.082	.084	.085	.087
6.5000	.089	.091	.093	.095	.097
7.0000	.099	.101	.103	.105	.107
7.5000	.109	.111	.113	.116	.118
8.0000	.120	.122	.125	.127	.130
8.5000	.132	.135	.138	.141	.144
9.0000	.147	.150	.153	.157	.160
9.5000	.163	.166	.170	.173	.177
10.0000	.181	.185	.189	.194	.199
10.5000	.204	.209	.215	.221	.228
11.0000	.235	.243	.251	.261	.271
11.5000	.283	.307	.354	.431	.568
12.0000	.663	.682	.699	.713	.725
12.5000	.735	.743	.751	.759	.766
13.0000	.772	.778	.784	.789	.794
13.5000	.799	.804	.808	.812	.816
14.0000	.820	.824	.827	.831	.834
14.5000	.838	.841	.844	.847	.850
15.0000	.854	.856	.859	.862	.865
15.5000	.868	.870	.873	.875	.878
16.0000	.880	.882	.885	.887	.889
16.5000	.891	.893	.895	.898	.900
17.0000	.902	.904	.906	.908	.910
17.5000	.912	.914	.915	.917	.919
18.0000	.921	.923	.925	.926	.928
18.5000	.930	.931	.933	.935	.936
19.0000	.938	.939	.941	.942	.944
19.5000	.945	.947	.948	.949	.951
20.0000	.952	.953	.955	.956	.957
20.5000	.958	.960	.961	.962	.964

21.0000		.965	.966	.967	.968	.970
21.5000		.971	.972	.973	.975	.976

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

Page 5.10

Name.... TypeII 24hr Tag: 25

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

CUMULATIVE RAINFALL FRACTIONS

Output Time increment = .1000 hrs  
Time on left represents time for first value in each row.

Time hrs						
22.0000		.977	.978	.979	.981	.982
22.5000		.983	.984	.985	.986	.988
23.0000		.989	.990	.991	.992	.993
23.5000		.994	.996	.997	.998	.999
24.0000		1.000				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

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Name.... TypeII 24hr Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 25

CUMULATIVE RAINFALL DEPTHS (in)

Output Time increment = .1000 hrs  
Time on left represents time for first value in each row.

Time hrs						
.0000		.0000	.0057	.0113	.0171	.0228
.5000		.0287	.0346	.0406	.0466	.0527
1.0000		.0588	.0650	.0712	.0776	.0839
1.5000		.0903	.0968	.1033	.1099	.1165
2.0000		.1232	.1300	.1368	.1436	.1505
2.5000		.1575	.1645	.1716	.1788	.1860
3.0000		.1932	.2005	.2079	.2153	.2228
3.5000		.2303	.2379	.2456	.2532	.2610
4.0000		.2688	.2767	.2847	.2928	.3011
4.5000		.3094	.3179	.3264	.3351	.3439
5.0000		.3528	.3618	.3709	.3802	.3895
5.5000		.3990	.4086	.4183	.4281	.4380
6.0000		.4480	.4581	.4684	.4787	.4892
6.5000		.4998	.5105	.5213	.5322	.5433
7.0000		.5544	.5657	.5770	.5885	.6001
7.5000		.6118	.6236	.6355	.6476	.6597
8.0000		.6720	.6846	.6978	.7115	.7258
8.5000		.7406	.7560	.7720	.7885	.8056

9.0000	.8232	.8411	.8590	.8770	.8949
9.5000	.9128	.9312	.9504	.9706	.9916
10.0000	1.0136	1.0367	1.0611	1.0868	1.1140
10.5000	1.1424	1.1726	1.2051	1.2398	1.2768
11.0000	1.3160	1.3590	1.4074	1.4612	1.5203
11.5000	1.5848	1.7183	1.9844	2.4124	3.1800
12.0000	3.7128	3.8190	3.9124	3.9930	4.0609
12.5000	4.1160	4.1633	4.2076	4.2491	4.2876
13.0000	4.3232	4.3566	4.3884	4.4186	4.4473
13.5000	4.4744	4.5002	4.5248	4.5483	4.5707
14.0000	4.5920	4.6126	4.6327	4.6524	4.6717
14.5000	4.6907	4.7093	4.7275	4.7452	4.7626
15.0000	4.7796	4.7962	4.8124	4.8283	4.8437
15.5000	4.8587	4.8733	4.8876	4.9015	4.9150
16.0000	4.9280	4.9408	4.9535	4.9660	4.9784
16.5000	4.9907	5.0028	5.0147	5.0266	5.0383
17.0000	5.0498	5.0612	5.0725	5.0836	5.0946
17.5000	5.1055	5.1162	5.1267	5.1372	5.1475
18.0000	5.1576	5.1676	5.1775	5.1872	5.1968
18.5000	5.2063	5.2156	5.2247	5.2338	5.2427
19.0000	5.2514	5.2600	5.2685	5.2768	5.2850
19.5000	5.2931	5.3010	5.3087	5.3164	5.3239
20.0000	5.3312	5.3385	5.3457	5.3529	5.3601
20.5000	5.3673	5.3744	5.3815	5.3885	5.3956
21.0000	5.4026	5.4096	5.4165	5.4235	5.4304
21.5000	5.4373	5.4441	5.4509	5.4577	5.4645

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

Page 5.12

Name.... TypeII 24hr Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 25

CUMULATIVE RAINFALL DEPTHS (in)

OutputTime increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs	CUMULATIVE RAINFALL DEPTHS (in)				
22.0000	5.4712	5.4779	5.4846	5.4912	5.4979
22.5000	5.5045	5.5110	5.5176	5.5241	5.5306
23.0000	5.5370	5.5434	5.5498	5.5562	5.5625
23.5000	5.5689	5.5751	5.5814	5.5876	5.5938
24.0000	5.6000				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

Page 5.13

Name.... TypeII 24hr Tag: 50

CUMULATIVE RAINFALL FRACTIONS

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
.0000	.000	.001	.002	.003	.004
.5000	.005	.006	.007	.008	.009
1.0000	.011	.012	.013	.014	.015
1.5000	.016	.017	.018	.020	.021
2.0000	.022	.023	.024	.026	.027
2.5000	.028	.029	.031	.032	.033
3.0000	.035	.036	.037	.038	.040
3.5000	.041	.042	.044	.045	.047
4.0000	.048	.049	.051	.052	.054
4.5000	.055	.057	.058	.060	.061
5.0000	.063	.065	.066	.068	.070
5.5000	.071	.073	.075	.076	.078
6.0000	.080	.082	.084	.085	.087
6.5000	.089	.091	.093	.095	.097
7.0000	.099	.101	.103	.105	.107
7.5000	.109	.111	.113	.116	.118
8.0000	.120	.122	.125	.127	.130
8.5000	.132	.135	.138	.141	.144
9.0000	.147	.150	.153	.157	.160
9.5000	.163	.166	.170	.173	.177
10.0000	.181	.185	.189	.194	.199
10.5000	.204	.209	.215	.221	.228
11.0000	.235	.243	.251	.261	.271
11.5000	.283	.307	.354	.431	.568
12.0000	.663	.682	.699	.713	.725
12.5000	.735	.743	.751	.759	.766
13.0000	.772	.778	.784	.789	.794
13.5000	.799	.804	.808	.812	.816
14.0000	.820	.824	.827	.831	.834
14.5000	.838	.841	.844	.847	.850
15.0000	.854	.856	.859	.862	.865
15.5000	.868	.870	.873	.875	.878
16.0000	.880	.882	.885	.887	.889
16.5000	.891	.893	.895	.898	.900
17.0000	.902	.904	.906	.908	.910
17.5000	.912	.914	.915	.917	.919
18.0000	.921	.923	.925	.926	.928
18.5000	.930	.931	.933	.935	.936
19.0000	.938	.939	.941	.942	.944
19.5000	.945	.947	.948	.949	.951
20.0000	.952	.953	.955	.956	.957
20.5000	.958	.960	.961	.962	.964
21.0000	.965	.966	.967	.968	.970
21.5000	.971	.972	.973	.975	.976



S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

Page 5.14

Name.... TypeII 24hr Tag: 50

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

CUMULATIVE RAINFALL FRACTIONS

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
22.0000	.977	.978	.979	.981	.982
22.5000	.983	.984	.985	.986	.988
23.0000	.989	.990	.991	.992	.993
23.5000	.994	.996	.997	.998	.999
24.0000	1.000				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

Page 5.15

Name.... TypeII 24hr Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 50

CUMULATIVE RAINFALL DEPTHS (in)

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
.0000	.0000	.0064	.0129	.0195	.0260
.5000	.0327	.0394	.0463	.0531	.0600
1.0000	.0670	.0741	.0812	.0884	.0956
1.5000	.1029	.1102	.1177	.1252	.1328
2.0000	.1404	.1481	.1558	.1636	.1715
2.5000	.1795	.1874	.1955	.2036	.2119
3.0000	.2201	.2285	.2368	.2453	.2538
3.5000	.2624	.2710	.2798	.2885	.2974
4.0000	.3062	.3152	.3244	.3336	.3430
4.5000	.3525	.3621	.3719	.3818	.3918
5.0000	.4019	.4122	.4226	.4331	.4438
5.5000	.4546	.4655	.4765	.4877	.4990
6.0000	.5104	.5219	.5336	.5454	.5574
6.5000	.5694	.5816	.5939	.6064	.6189
7.0000	.6316	.6444	.6574	.6705	.6837
7.5000	.6970	.7105	.7241	.7378	.7516
8.0000	.7656	.7800	.7949	.8106	.8268
8.5000	.8438	.8613	.8795	.8983	.9178
9.0000	.9379	.9583	.9787	.9991	1.0195
9.5000	1.0399	1.0609	1.0828	1.1058	1.1298

10.0000	1.1548	1.1811	1.2089	1.2382	1.2691
10.5000	1.3015	1.3360	1.3730	1.4125	1.4546
11.0000	1.4993	1.5483	1.6034	1.6647	1.7320
11.5000	1.8055	1.9576	2.2608	2.7484	3.6229
12.0000	4.2299	4.3509	4.4573	4.5492	4.6265
12.5000	4.6893	4.7431	4.7937	4.8409	4.8848
13.0000	4.9254	4.9634	4.9996	5.0341	5.0667
13.5000	5.0976	5.1270	5.1550	5.1818	5.2074
14.0000	5.2316	5.2550	5.2779	5.3004	5.3225
14.5000	5.3441	5.3652	5.3859	5.4062	5.4260
15.0000	5.4453	5.4643	5.4827	5.5008	5.5183
15.5000	5.5355	5.5521	5.5684	5.5842	5.5995
16.0000	5.6144	5.6290	5.6434	5.6577	5.6718
16.5000	5.6858	5.6996	5.7132	5.7267	5.7400
17.0000	5.7532	5.7662	5.7790	5.7917	5.8042
17.5000	5.8166	5.8288	5.8408	5.8527	5.8644
18.0000	5.8760	5.8874	5.8986	5.9097	5.9206
18.5000	5.9314	5.9420	5.9525	5.9627	5.9729
19.0000	5.9828	5.9927	6.0023	6.0118	6.0211
19.5000	6.0303	6.0393	6.0482	6.0569	6.0654
20.0000	6.0738	6.0821	6.0903	6.0985	6.1067
20.5000	6.1148	6.1230	6.1311	6.1391	6.1471
21.0000	6.1551	6.1631	6.1710	6.1789	6.1868
21.5000	6.1946	6.2024	6.2102	6.2179	6.2256

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

Page 5.16

Name.... TypeII 24hr Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 50

CUMULATIVE RAINFALL DEPTHS (in)

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
22.0000	6.2333	6.2409	6.2485	6.2561	6.2636
22.5000	6.2712	6.2786	6.2861	6.2935	6.3009
23.0000	6.3082	6.3156	6.3228	6.3301	6.3373
23.5000	6.3445	6.3517	6.3588	6.3659	6.3730
24.0000	6.3800				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

Page 5.17

Name.... TypeII 24hr Tag: 100

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

CUMULATIVE RAINFALL FRACTIONS

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
.0000	.000	.001	.002	.003	.004
.5000	.005	.006	.007	.008	.009
1.0000	.011	.012	.013	.014	.015
1.5000	.016	.017	.018	.020	.021
2.0000	.022	.023	.024	.026	.027
2.5000	.028	.029	.031	.032	.033
3.0000	.035	.036	.037	.038	.040
3.5000	.041	.042	.044	.045	.047
4.0000	.048	.049	.051	.052	.054
4.5000	.055	.057	.058	.060	.061
5.0000	.063	.065	.066	.068	.070
5.5000	.071	.073	.075	.076	.078
6.0000	.080	.082	.084	.085	.087
6.5000	.089	.091	.093	.095	.097
7.0000	.099	.101	.103	.105	.107
7.5000	.109	.111	.113	.116	.118
8.0000	.120	.122	.125	.127	.130
8.5000	.132	.135	.138	.141	.144
9.0000	.147	.150	.153	.157	.160
9.5000	.163	.166	.170	.173	.177
10.0000	.181	.185	.189	.194	.199
10.5000	.204	.209	.215	.221	.228
11.0000	.235	.243	.251	.261	.271
11.5000	.283	.307	.354	.431	.568
12.0000	.663	.682	.699	.713	.725
12.5000	.735	.743	.751	.759	.766
13.0000	.772	.778	.784	.789	.794
13.5000	.799	.804	.808	.812	.816
14.0000	.820	.824	.827	.831	.834
14.5000	.838	.841	.844	.847	.850
15.0000	.854	.856	.859	.862	.865
15.5000	.868	.870	.873	.875	.878
16.0000	.880	.882	.885	.887	.889
16.5000	.891	.893	.895	.898	.900
17.0000	.902	.904	.906	.908	.910
17.5000	.912	.914	.915	.917	.919
18.0000	.921	.923	.925	.926	.928
18.5000	.930	.931	.933	.935	.936
19.0000	.938	.939	.941	.942	.944
19.5000	.945	.947	.948	.949	.951
20.0000	.952	.953	.955	.956	.957
20.5000	.958	.960	.961	.962	.964
21.0000	.965	.966	.967	.968	.970
21.5000	.971	.972	.973	.975	.976

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Curve

Page 5.18

Name.... TypeII 24hr Tag: 100

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

CUMULATIVE RAINFALL FRACTIONS

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
22.0000	.977	.978	.979	.981	.982
22.5000	.983	.984	.985	.986	.988
23.0000	.989	.990	.991	.992	.993
23.5000	.994	.996	.997	.998	.999
24.0000	1.000				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

Page 5.19

Name.... TypeII 24hr Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 100

CUMULATIVE RAINFALL DEPTHS (in)

Output Time increment = .1000 hrs

Time on left represents time for first value in each row.

Time hrs					
.0000	.0000	.0073	.0146	.0220	.0294
.5000	.0370	.0446	.0523	.0600	.0678
1.0000	.0757	.0837	.0917	.0999	.1080
1.5000	.1163	.1246	.1330	.1415	.1500
2.0000	.1586	.1673	.1761	.1849	.1938
2.5000	.2028	.2118	.2210	.2301	.2394
3.0000	.2487	.2582	.2676	.2772	.2868
3.5000	.2965	.3063	.3162	.3260	.3361
4.0000	.3461	.3562	.3666	.3770	.3876
4.5000	.3984	.4092	.4203	.4314	.4428
5.0000	.4542	.4658	.4776	.4895	.5015
5.5000	.5137	.5260	.5385	.5511	.5639
6.0000	.5768	.5899	.6030	.6164	.6299
6.5000	.6435	.6573	.6712	.6852	.6994
7.0000	.7138	.7283	.7429	.7577	.7726
7.5000	.7877	.8029	.8183	.8338	.8494
8.0000	.8652	.8814	.8984	.9160	.9344
8.5000	.9535	.9734	.9939	1.0152	1.0372
9.0000	1.0599	1.0829	1.1060	1.1291	1.1522
9.5000	1.1752	1.1989	1.2237	1.2496	1.2767
10.0000	1.3050	1.3347	1.3662	1.3993	1.4342
10.5000	1.4708	1.5098	1.5516	1.5963	1.6439

11.0000	1.6944	1.7497	1.8120	1.8812	1.9574
11.5000	2.0404	2.2123	2.5549	3.1060	4.0943
12.0000	4.7802	4.9169	5.0372	5.1410	5.2284
12.5000	5.2994	5.3602	5.4173	5.4707	5.5203
13.0000	5.5661	5.6091	5.6500	5.6890	5.7259
13.5000	5.7608	5.7940	5.8257	5.8560	5.8848
14.0000	5.9122	5.9387	5.9645	5.9900	6.0149
14.5000	6.0393	6.0632	6.0866	6.1095	6.1319
15.0000	6.1537	6.1751	6.1960	6.2164	6.2362
15.5000	6.2556	6.2744	6.2928	6.3106	6.3280
16.0000	6.3448	6.3613	6.3776	6.3938	6.4097
16.5000	6.4255	6.4411	6.4565	6.4717	6.4868
17.0000	6.5016	6.5163	6.5308	6.5452	6.5593
17.5000	6.5733	6.5871	6.6007	6.6141	6.6274
18.0000	6.6404	6.6533	6.6660	6.6786	6.6909
18.5000	6.7031	6.7150	6.7269	6.7385	6.7499
19.0000	6.7612	6.7723	6.7832	6.7939	6.8044
19.5000	6.8148	6.8250	6.8350	6.8448	6.8545
20.0000	6.8639	6.8733	6.8826	6.8919	6.9011
20.5000	6.9104	6.9195	6.9287	6.9378	6.9468
21.0000	6.9558	6.9649	6.9738	6.9827	6.9916
21.5000	7.0005	7.0093	7.0181	7.0268	7.0355

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Synthetic Cumulative Depth

Page 5.20

Name.... TypeII 24hr Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 100

CUMULATIVE RAINFALL DEPTHS (in)

Time hrs	Output Time increment = .1000 hrs				
	Time on left represents time for first value in each row.				
22.0000	7.0442	7.0528	7.0614	7.0700	7.0785
22.5000	7.0870	7.0954	7.1039	7.1122	7.1206
23.0000	7.1289	7.1372	7.1454	7.1536	7.1618
23.5000	7.1699	7.1780	7.1861	7.1941	7.2021
24.0000	7.2100				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Tc Calcs

Page 6.01

Name.... SUBAREA 10

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

.....

TIME OF CONCENTRATION CALCULATOR

.....

Segment #1: Tc: User Defined

Segment #1 Time: .0833 hrs

```

=====
Total Tc:      .0833 hrs

Calculated Tc < Min.Tc:
Use Minimum Tc...
Use Tc =      .0833 hrs
=====

```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Tc Calcs

Page 6.02

Name.... SUBAREA 10

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Tc Equations used...

==== User Defined =====

Tc = Value entered by user

Where: Tc = Time of concentration

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Tc Calcs

Page 6.03

Name.... SUBAREA 20

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

.....

TIME OF CONCENTRATION CALCULATOR

.....

-----

Segment #1: Tc: User Defined

Segment #1 Time: .0833 hrs

-----

```

=====
Total Tc:      .0833 hrs

Calculated Tc < Min.Tc:
Use Minimum Tc...
Use Tc =      .0833 hrs
=====

```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Tc Calcs

Page 6.04

Name.... SUBAREA 20

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

-----

Tc Equations used...

-----

==== User Defined =====

Tc = Value entered by user

Where: Tc = Time of concentration

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Runoff CN-Area

Page 7.01

Name.... SUBAREA 10

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

RUNOFF CURVE NUMBER DATA

.....





DEFINITION OF TERMS: -----

At = Total area (acres):  $A_t = A_i + A_p$   
 Ai = Impervious area (acres)  
 Ap = Pervious area (acres)  
 CNi = Runoff curve number for impervious area  
 CNp = Runoff curve number for pervious area  
 fLoss = f loss constant infiltration (depth/time)  
 gKs = Saturated Hydraulic Conductivity (depth/time)  
 Md = Volumetric Moisture Deficit  
 Psi = Capillary Suction (length)  
 hK = Horton Infiltration Decay Rate ( $\text{time}^{-1}$ )  
 fo = Initial Infiltration Rate (depth/time)  
 fc = Ultimate(capacity)Infiltration Rate (depth/time)  
 Ia = Initial Abstraction (length)  
 dt = Computational increment (duration of unit excess rainfall)  
 Default dt is smallest value of  $0.1333T_c$ ,  $r_{tm}$ , and  $t_h$   
 (Smallest dt is then adjusted to match up with  $T_p$ )  
 UDdt = User specified override computational main time increment  
 (only used if UDdt is  $\Rightarrow .1333T_c$ )  
 D(t) = Point on distribution curve (fraction of P) for time step t  
  
 K =  $2 / (1 + (T_r/T_p))$ : default K = 0.75: (for  $T_r/T_p = 1.67$ )  
 Ks = Hydrograph shape factor  
 = Unit Conversions \* K:  
 =  $((1\text{hr}/3600\text{sec}) * (1\text{ft}/12\text{in}) * ((5280\text{ft})^2/\text{sq.mi})) * K$   
 Default Ks =  $645.333 * 0.75 = 484$   
  
 Lag = Lag time from center of excess runoff (dt) to  $T_p$ :  $\text{Lag} = 0.6T_c$   
 P = Total precipitation depth, inches  
 Pa(t) = Accumulated rainfall at time step t  
 Pi(t) = Incremental rainfall at time step t  
 qp = Peak discharge (cfs) for 1in. runoff, for 1hr, for 1 sq.mi.  
 =  $(K_s * A * Q) / T_p$  (where Q = 1in. runoff, A=sq.mi.)  
 Qu(t) = Unit hydrograph ordinate (cfs) at time step t  
 Q(t) = Final hydrograph ordinate (cfs) at time step t  
 Rai(t) = Accumulated runoff (inches) at time step t for impervious area  
 Rap(t) = Accumulated runoff (inches) at time step t for pervious area  
 Rii(t) = Incremental runoff (inches) at time step t for impervious area  
 Rip(t) = Incremental runoff (inches) at time step t for pervious area  
 R(t) = Incremental weighted total runoff (inches)  
 Rtm = Time increment for rainfall table  
 Si = S for impervious area:  $S_i = (1000/CN_i) - 10$   
 Sp = S for pervious area:  $S_p = (1000/CN_p) - 10$   
 t = Time step (row) number  
 Tc = Time of concentration  
 Tb = Time (hrs) of entire unit hydrograph:  $T_b = T_p + T_r$   
 Tp = Time (hrs) to peak of a unit hydrograph:  $T_p = (dt/2) + \text{Lag}$

Tr = Time (hrs) of receding limb of unit hydrograph: Tr = ratio of Tp

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Unit Hyd. Equations

Page 8.02

Name....

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

SCS UNIT HYDROGRAPH METHOD  
(Computational Notes)

PRECIPITATION: -----

Column (1): Time for time step t

Column (2): D(t) = Point on distribution curve for time step t

Column (3): Pi(t) = Pa(t) - Pa(t-1): Col.(4) - Preceding Col.(4)

Column (4): Pa(t) = D(t) x P: Col.(2) x P

PERVIOUS AREA RUNOFF (using SCS Runoff CN Method) -----

Column (5): Rap(t) = Accumulated pervious runoff for time step t

If (Pa(t) is <= 0.2Sp) then use: Rap(t) = 0.0

If (Pa(t) is > 0.2Sp) then use:

$$\text{Rap}(t) = (\text{Col.}(4) - 0.2\text{Sp})^{**2} / (\text{Col.}(4) + 0.8\text{Sp})$$

Column (6): Rip(t) = Incremental pervious runoff for time step t

$$\text{Rip}(t) = \text{Rap}(t) - \text{Rap}(t-1)$$

Rip(t) = Col.(5) for current row - Col.(5) for preceding row.

IMPERVIOUS AREA RUNOFF -----

Column (7 & 8)... Did not specify to use impervious areas.

INCREMENTAL WEIGHTED RUNOFF: -----

Column (9): R(t) = (Ap/At) x Rip(t) + (Ai/At) x Rii(t)

$$\text{R}(t) = (\text{Ap}/\text{At}) \times \text{Col.}(6) + (\text{Ai}/\text{At}) \times \text{Col.}(8)$$

SCS UNIT HYDROGRAPH METHOD: -----

Column (10): Q(t) is computed with the SCS unit hydrograph method  
using R() and Qu().

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Unit Hyd. Summary

Page 8.03

Name.... SUBAREA 10

Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 24.0000 hrs Rain Depth = 3.1000 in  
Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
Rain File -ID = - TypeII 24hr  
Unit Hyd Type = Default Curvilinear  
HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
HYG File - ID = - SUBAREA 10 2  
Tc (Min. Tc) = .0833 hrs  
Drainage Area = .400 acres Runoff CN= 90

=====  
Computational Time Increment = .01111 hrs  
Computed Peak Time = 11.9175 hrs  
Computed Peak Flow = 1.29 cfs

Time Increment for HYG File = .0200 hrs  
Peak Time, Interpolated Output = 11.9201 hrs  
Peak Flow, Interpolated Output = 1.29 cfs  
=====

DRAINAGE AREA

-----  
ID:SUBAREA 10  
CN = 90  
Area = .400 acres  
S = 1.1111 in  
0.2S = .2222 in

Cumulative Runoff

-----  
2.0762 in  
.069 ac-ft

HYG Volume... .069 ac-ft (area under HYG curve)

\*\*\*\*\* SCS UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .08330 hrs (ID: SUBAREA 10)  
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)  
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))  
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.44 cfs  
Unit peak time Tp = .05553 hrs

Unit receding limb, Tr = .22213 hrs  
 Total unit time, Tb = .27767 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 8.04  
 Name.... SUBAREA 10 Tag: 2 Event: 2 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm  
 Duration = 24.0000 hrs Rain Depth = 3.1000 in  
 Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Rain File -ID = - TypeII 24hr  
 Unit Hyd Type = Default Curvilinear  
 HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 HYG File - ID = - SUBAREA 10 2  
 Tc (Min. Tc) = .0833 hrs  
 Drainage Area = .400 acres Runoff CN= 90  
 Calc.Increment= .01111 hrs Out.Incr.= .0200 hrs  
 HYG Volume = .069 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
6.0600	.00	.00	.00	.00	.00
6.1600	.00	.00	.00	.00	.00
6.2600	.00	.00	.00	.00	.00
6.3600	.00	.00	.00	.00	.00
6.4600	.00	.00	.00	.00	.00
6.5600	.00	.00	.00	.00	.00
6.6600	.00	.00	.00	.00	.00
6.7600	.00	.00	.00	.00	.00
6.8600	.00	.00	.00	.00	.00
6.9600	.00	.00	.00	.00	.00
7.0600	.00	.00	.00	.00	.00
7.1600	.00	.00	.00	.00	.00
7.2600	.00	.00	.00	.00	.00
7.3600	.00	.00	.00	.00	.00
7.4600	.00	.00	.00	.00	.00
7.5600	.00	.00	.00	.00	.00
7.6600	.01	.01	.01	.01	.01
7.7600	.01	.01	.01	.01	.01
7.8600	.01	.01	.01	.01	.01
7.9600	.01	.01	.01	.01	.01
8.0600	.01	.01	.01	.01	.01

8.1600	.01	.01	.01	.01	.01
8.2600	.01	.01	.01	.01	.01
8.3600	.01	.01	.01	.01	.01
8.4600	.01	.01	.01	.01	.01
8.5600	.01	.01	.01	.01	.01
8.6600	.01	.01	.01	.01	.01
8.7600	.01	.01	.01	.01	.01
8.8600	.01	.01	.01	.01	.01
8.9600	.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.05

Name.... SUBAREA 10 Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time hrs | Time on left represents time for first value in each row.

9.0600	.01	.01	.01	.01	.01
9.1600	.01	.01	.01	.01	.01
9.2600	.01	.01	.01	.01	.01
9.3600	.01	.01	.01	.01	.01
9.4600	.01	.01	.01	.01	.01
9.5600	.01	.01	.02	.02	.02
9.6600	.02	.02	.02	.02	.02
9.7600	.02	.02	.02	.02	.02
9.8600	.02	.02	.02	.02	.02
9.9600	.02	.02	.02	.02	.02
10.0600	.02	.02	.02	.02	.02
10.1600	.02	.02	.02	.02	.02
10.2600	.02	.02	.02	.03	.03
10.3600	.03	.03	.03	.03	.03
10.4600	.03	.03	.03	.03	.03
10.5600	.03	.03	.03	.03	.03
10.6600	.03	.03	.03	.04	.04
10.7600	.04	.04	.04	.04	.04
10.8600	.04	.04	.04	.04	.04
10.9600	.04	.04	.05	.05	.05
11.0600	.05	.05	.05	.05	.05
11.1600	.06	.06	.06	.06	.06
11.2600	.06	.07	.07	.07	.07
11.3600	.07	.07	.08	.08	.08
11.4600	.08	.08	.08	.09	.11
11.5600	.13	.16	.17	.19	.23
11.6600	.28	.33	.36	.39	.45
11.7600	.53	.60	.64	.70	.83

11.8600	1.01	1.15	1.25	1.29	1.25
11.9600	1.17	1.09	1.05	.99	.83
12.0600	.61	.44	.33	.27	.24
12.1600	.21	.20	.19	.18	.18
12.2600	.17	.16	.16	.16	.15
12.3600	.14	.14	.14	.13	.13
12.4600	.12	.11	.11	.11	.11
12.5600	.10	.10	.10	.09	.09
12.6600	.09	.09	.09	.09	.09
12.7600	.08	.08	.08	.08	.08
12.8600	.08	.08	.08	.08	.07
12.9600	.07	.07	.07	.07	.07
13.0600	.07	.07	.07	.07	.07
13.1600	.06	.06	.06	.06	.06
13.2600	.06	.06	.06	.06	.06
13.3600	.06	.06	.06	.06	.06
13.4600	.06	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.06

Name.... SUBAREA 10 Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
13.5600	.05	.05	.05	.05	.05
13.6600	.05	.05	.05	.05	.05
13.7600	.05	.05	.05	.05	.05
13.8600	.05	.05	.05	.04	.04
13.9600	.04	.04	.04	.04	.04
14.0600	.04	.04	.04	.04	.04
14.1600	.04	.04	.04	.04	.04
14.2600	.04	.04	.04	.04	.04
14.3600	.04	.04	.04	.04	.04
14.4600	.04	.04	.04	.04	.04
14.5600	.04	.04	.04	.04	.04
14.6600	.04	.04	.04	.04	.04
14.7600	.04	.04	.04	.04	.04
14.8600	.04	.04	.04	.04	.03
14.9600	.03	.03	.03	.03	.03
15.0600	.03	.03	.03	.03	.03
15.1600	.03	.03	.03	.03	.03
15.2600	.03	.03	.03	.03	.03
15.3600	.03	.03	.03	.03	.03
15.4600	.03	.03	.03	.03	.03

15.5600	.03	.03	.03	.03	.03
15.6600	.03	.03	.03	.03	.03
15.7600	.03	.03	.03	.03	.03
15.8600	.03	.03	.03	.03	.03
15.9600	.03	.03	.03	.03	.03
16.0600	.03	.03	.03	.03	.03
16.1600	.03	.03	.03	.03	.03
16.2600	.03	.03	.03	.03	.03
16.3600	.03	.03	.03	.03	.03
16.4600	.02	.02	.02	.02	.02
16.5600	.02	.02	.02	.02	.02
16.6600	.02	.02	.02	.02	.02
16.7600	.02	.02	.02	.02	.02
16.8600	.02	.02	.02	.02	.02
16.9600	.02	.02	.02	.02	.02
17.0600	.02	.02	.02	.02	.02
17.1600	.02	.02	.02	.02	.02
17.2600	.02	.02	.02	.02	.02
17.3600	.02	.02	.02	.02	.02
17.4600	.02	.02	.02	.02	.02
17.5600	.02	.02	.02	.02	.02
17.6600	.02	.02	.02	.02	.02
17.7600	.02	.02	.02	.02	.02
17.8600	.02	.02	.02	.02	.02
17.9600	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.07

Name.... SUBAREA 10 Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

---

Time hrs					
18.0600	.02	.02	.02	.02	.02
18.1600	.02	.02	.02	.02	.02
18.2600	.02	.02	.02	.02	.02
18.3600	.02	.02	.02	.02	.02
18.4600	.02	.02	.02	.02	.02
18.5600	.02	.02	.02	.02	.02
18.6600	.02	.02	.02	.02	.02
18.7600	.02	.02	.02	.02	.02
18.8600	.02	.02	.02	.02	.02
18.9600	.02	.02	.02	.02	.02
19.0600	.02	.02	.02	.02	.02
19.1600	.02	.02	.02	.02	.02

19.2600	.02	.02	.02	.02	.02
19.3600	.02	.02	.02	.02	.02
19.4600	.02	.02	.02	.02	.02
19.5600	.02	.02	.02	.02	.02
19.6600	.02	.02	.02	.02	.02
19.7600	.02	.02	.02	.02	.02
19.8600	.02	.02	.02	.02	.02
19.9600	.02	.02	.02	.02	.01
20.0600	.01	.01	.01	.01	.01
20.1600	.01	.01	.01	.01	.01
20.2600	.01	.01	.01	.01	.01
20.3600	.01	.01	.01	.01	.01
20.4600	.01	.01	.01	.01	.01
20.5600	.01	.01	.01	.01	.01
20.6600	.01	.01	.01	.01	.01
20.7600	.01	.01	.01	.01	.01
20.8600	.01	.01	.01	.01	.01
20.9600	.01	.01	.01	.01	.01
21.0600	.01	.01	.01	.01	.01
21.1600	.01	.01	.01	.01	.01
21.2600	.01	.01	.01	.01	.01
21.3600	.01	.01	.01	.01	.01
21.4600	.01	.01	.01	.01	.01
21.5600	.01	.01	.01	.01	.01
21.6600	.01	.01	.01	.01	.01
21.7600	.01	.01	.01	.01	.01
21.8600	.01	.01	.01	.01	.01
21.9600	.01	.01	.01	.01	.01
22.0600	.01	.01	.01	.01	.01
22.1600	.01	.01	.01	.01	.01
22.2600	.01	.01	.01	.01	.01
22.3600	.01	.01	.01	.01	.01
22.4600	.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.08

Name.... SUBAREA 10 Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
22.5600	.01	.01	.01	.01	.01
22.6600	.01	.01	.01	.01	.01
22.7600	.01	.01	.01	.01	.01
22.8600	.01	.01	.01	.01	.01



22.9600	.01	.01	.01	.01	.01
23.0600	.01	.01	.01	.01	.01
23.1600	.01	.01	.01	.01	.01
23.2600	.01	.01	.01	.01	.01
23.3600	.01	.01	.01	.01	.01
23.4600	.01	.01	.01	.01	.01
23.5600	.01	.01	.01	.01	.01
23.6600	.01	.01	.01	.01	.01
23.7600	.01	.01	.01	.01	.01
23.8600	.01	.01	.01	.01	.01
23.9600	.01	.01	.01	.01	.01
24.0600	.01	.00	.00	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 8.09

Name.... SUBAREA 10 Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm

Duration = 24.0000 hrs Rain Depth = 5.0300 in

Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Rain File -ID = - TypeII 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

HYG File - ID = - SUBAREA 10 15

Tc (Min. Tc) = .0833 hrs

Drainage Area = .400 acres Runoff CN= 90

=====  
Computational Time Increment = .01111 hrs

Computed Peak Time = 11.9175 hrs

Computed Peak Flow = 2.35 cfs

Time Increment for HYG File = .0200 hrs

Peak Time, Interpolated Output = 11.9201 hrs

Peak Flow, Interpolated Output = 2.35 cfs  
=====

DRAINAGE AREA

-----  
ID:SUBAREA 10

CN = 90

Area = .400 acres

S = 1.1111 in

0.2S = .2222 in

Cumulative Runoff

-----

3.9052 in  
.130 ac-ft

HYG Volume... .130 ac-ft (area under HYG curve)

\*\*\*\*\* SCS UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .08330 hrs (ID: SUBAREA 10)  
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)  
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))  
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.44 cfs  
Unit peak time Tp = .05553 hrs  
Unit receding limb, Tr = .22213 hrs  
Total unit time, Tb = .27767 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 8.10  
Name.... SUBAREA 10 Tag: 15 Event: 15 yr  
File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
Storm... TypeII 24hr Tag: 15

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm  
Duration = 24.0000 hrs Rain Depth = 5.0300 in  
Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
Rain File -ID = - TypeII 24hr  
Unit Hyd Type = Default Curvilinear  
HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
HYG File - ID = - SUBAREA 10 15  
Tc (Min. Tc) = .0833 hrs  
Drainage Area = .400 acres Runoff CN= 90  
Calc.Increment= .01111 hrs Out.Incr.= .0200 hrs  
HYG Volume = .130 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
4.0600	.00	.00	.00	.00	.00
4.1600	.00	.00	.00	.00	.00

4.2600	.00	.00	.00	.00	.00
4.3600	.00	.00	.00	.00	.00
4.4600	.00	.00	.00	.00	.00
4.5600	.00	.00	.00	.00	.00
4.6600	.00	.00	.00	.00	.00
4.7600	.00	.00	.00	.00	.00
4.8600	.00	.00	.00	.00	.00
4.9600	.00	.00	.00	.00	.00
5.0600	.00	.00	.01	.01	.01
5.1600	.01	.01	.01	.01	.01
5.2600	.01	.01	.01	.01	.01
5.3600	.01	.01	.01	.01	.01
5.4600	.01	.01	.01	.01	.01
5.5600	.01	.01	.01	.01	.01
5.6600	.01	.01	.01	.01	.01
5.7600	.01	.01	.01	.01	.01
5.8600	.01	.01	.01	.01	.01
5.9600	.01	.01	.01	.01	.01
6.0600	.01	.01	.01	.01	.01
6.1600	.01	.01	.01	.01	.01
6.2600	.01	.01	.01	.01	.01
6.3600	.01	.01	.01	.01	.01
6.4600	.01	.01	.01	.01	.01
6.5600	.01	.01	.01	.01	.01
6.6600	.01	.01	.01	.01	.01
6.7600	.01	.01	.01	.01	.01
6.8600	.01	.01	.01	.01	.01
6.9600	.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.11

Name.... SUBAREA 10 Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

7.0600	.01	.01	.01	.01	.01
7.1600	.02	.02	.02	.02	.02
7.2600	.02	.02	.02	.02	.02
7.3600	.02	.02	.02	.02	.02
7.4600	.02	.02	.02	.02	.02
7.5600	.02	.02	.02	.02	.02
7.6600	.02	.02	.02	.02	.02
7.7600	.02	.02	.02	.02	.02
7.8600	.02	.02	.02	.02	.02

7.9600	.02	.02	.02	.02	.02
8.0600	.02	.02	.02	.02	.02
8.1600	.02	.02	.02	.02	.02
8.2600	.02	.02	.02	.02	.02
8.3600	.02	.02	.02	.02	.02
8.4600	.03	.03	.03	.03	.03
8.5600	.03	.03	.03	.03	.03
8.6600	.03	.03	.03	.03	.03
8.7600	.03	.03	.03	.03	.03
8.8600	.03	.03	.03	.03	.03
8.9600	.03	.03	.03	.03	.03
9.0600	.03	.03	.03	.03	.04
9.1600	.04	.04	.04	.04	.04
9.2600	.04	.04	.04	.04	.04
9.3600	.04	.04	.04	.04	.04
9.4600	.04	.04	.04	.04	.04
9.5600	.04	.04	.04	.04	.04
9.6600	.04	.04	.04	.04	.04
9.7600	.04	.04	.04	.04	.04
9.8600	.04	.05	.05	.05	.05
9.9600	.05	.05	.05	.05	.05
10.0600	.05	.05	.05	.05	.05
10.1600	.05	.05	.06	.06	.06
10.2600	.06	.06	.06	.06	.06
10.3600	.06	.06	.06	.06	.06
10.4600	.07	.07	.07	.07	.07
10.5600	.07	.07	.07	.07	.07
10.6600	.08	.08	.08	.08	.08
10.7600	.08	.08	.09	.09	.09
10.8600	.09	.09	.09	.09	.09
10.9600	.10	.10	.10	.10	.10
11.0600	.11	.11	.11	.11	.12
11.1600	.12	.12	.13	.13	.13
11.2600	.14	.14	.14	.14	.15
11.3600	.15	.16	.16	.16	.16
11.4600	.17	.17	.18	.19	.23

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.12

Name.... SUBAREA 10 Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
Time on left represents time for first value in each row.					
11.5600	.28	.32	.35	.38	.47

11.6600	.57	.66	.72	.78	.89
11.7600	1.04	1.15	1.23	1.34	1.57
11.8600	1.88	2.13	2.29	2.35	2.27
11.9600	2.10	1.96	1.88	1.76	1.47
12.0600	1.08	.77	.58	.48	.42
12.1600	.37	.35	.33	.32	.31
12.2600	.30	.29	.28	.28	.27
12.3600	.25	.24	.24	.23	.22
12.4600	.21	.20	.19	.19	.18
12.5600	.18	.17	.17	.16	.16
12.6600	.16	.15	.15	.15	.15
12.7600	.15	.14	.14	.14	.14
12.8600	.14	.13	.13	.13	.13
12.9600	.13	.12	.12	.12	.12
13.0600	.12	.12	.12	.11	.11
13.1600	.11	.11	.11	.11	.11
13.2600	.11	.11	.10	.10	.10
13.3600	.10	.10	.10	.10	.10
13.4600	.10	.09	.09	.09	.09
13.5600	.09	.09	.09	.09	.09
13.6600	.09	.09	.09	.08	.08
13.7600	.08	.08	.08	.08	.08
13.8600	.08	.08	.08	.08	.08
13.9600	.08	.07	.07	.07	.07
14.0600	.07	.07	.07	.07	.07
14.1600	.07	.07	.07	.07	.07
14.2600	.07	.07	.07	.07	.07
14.3600	.07	.07	.07	.07	.07
14.4600	.07	.07	.07	.07	.07
14.5600	.06	.06	.06	.06	.06
14.6600	.06	.06	.06	.06	.06
14.7600	.06	.06	.06	.06	.06
14.8600	.06	.06	.06	.06	.06
14.9600	.06	.06	.06	.06	.06
15.0600	.06	.06	.06	.06	.06
15.1600	.06	.06	.06	.06	.06
15.2600	.06	.06	.05	.05	.05
15.3600	.05	.05	.05	.05	.05
15.4600	.05	.05	.05	.05	.05
15.5600	.05	.05	.05	.05	.05
15.6600	.05	.05	.05	.05	.05
15.7600	.05	.05	.05	.05	.05
15.8600	.05	.05	.05	.05	.05
15.9600	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Name.... SUBAREA 10

Tag: 15

Page 8.13

Event: 15 yr

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
16.0600	.04	.04	.04	.04	.04
16.1600	.04	.04	.04	.04	.04
16.2600	.04	.04	.04	.04	.04
16.3600	.04	.04	.04	.04	.04
16.4600	.04	.04	.04	.04	.04
16.5600	.04	.04	.04	.04	.04
16.6600	.04	.04	.04	.04	.04
16.7600	.04	.04	.04	.04	.04
16.8600	.04	.04	.04	.04	.04
16.9600	.04	.04	.04	.04	.04
17.0600	.04	.04	.04	.04	.04
17.1600	.04	.04	.04	.04	.04
17.2600	.04	.04	.04	.04	.04
17.3600	.04	.04	.04	.04	.04
17.4600	.04	.04	.04	.04	.04
17.5600	.04	.04	.04	.04	.04
17.6600	.04	.04	.04	.04	.04
17.7600	.04	.04	.04	.04	.04
17.8600	.04	.04	.04	.04	.04
17.9600	.04	.04	.04	.04	.04
18.0600	.04	.03	.03	.03	.03
18.1600	.03	.03	.03	.03	.03
18.2600	.03	.03	.03	.03	.03
18.3600	.03	.03	.03	.03	.03
18.4600	.03	.03	.03	.03	.03
18.5600	.03	.03	.03	.03	.03
18.6600	.03	.03	.03	.03	.03
18.7600	.03	.03	.03	.03	.03
18.8600	.03	.03	.03	.03	.03
18.9600	.03	.03	.03	.03	.03
19.0600	.03	.03	.03	.03	.03
19.1600	.03	.03	.03	.03	.03
19.2600	.03	.03	.03	.03	.03
19.3600	.03	.03	.03	.03	.03
19.4600	.03	.03	.03	.03	.03
19.5600	.03	.03	.03	.03	.03
19.6600	.03	.03	.03	.03	.03
19.7600	.03	.03	.03	.03	.03
19.8600	.03	.03	.03	.03	.03
19.9600	.03	.03	.03	.03	.03
20.0600	.03	.03	.03	.03	.03
20.1600	.03	.03	.03	.03	.03
20.2600	.03	.03	.03	.03	.03

20.3600		.03	.03	.03	.02	.02
20.4600		.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.14

Name.... SUBAREA 10 Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	-----				
20.5600	.02	.02	.02	.02	.02
20.6600	.02	.02	.02	.02	.02
20.7600	.02	.02	.02	.02	.02
20.8600	.02	.02	.02	.02	.02
20.9600	.02	.02	.02	.02	.02
21.0600	.02	.02	.02	.02	.02
21.1600	.02	.02	.02	.02	.02
21.2600	.02	.02	.02	.02	.02
21.3600	.02	.02	.02	.02	.02
21.4600	.02	.02	.02	.02	.02
21.5600	.02	.02	.02	.02	.02
21.6600	.02	.02	.02	.02	.02
21.7600	.02	.02	.02	.02	.02
21.8600	.02	.02	.02	.02	.02
21.9600	.02	.02	.02	.02	.02
22.0600	.02	.02	.02	.02	.02
22.1600	.02	.02	.02	.02	.02
22.2600	.02	.02	.02	.02	.02
22.3600	.02	.02	.02	.02	.02
22.4600	.02	.02	.02	.02	.02
22.5600	.02	.02	.02	.02	.02
22.6600	.02	.02	.02	.02	.02
22.7600	.02	.02	.02	.02	.02
22.8600	.02	.02	.02	.02	.02
22.9600	.02	.02	.02	.02	.02
23.0600	.02	.02	.02	.02	.02
23.1600	.02	.02	.02	.02	.02
23.2600	.02	.02	.02	.02	.02
23.3600	.02	.02	.02	.02	.02
23.4600	.02	.02	.02	.02	.02
23.5600	.02	.02	.02	.02	.02
23.6600	.02	.02	.02	.02	.02
23.7600	.02	.02	.02	.02	.02
23.8600	.02	.02	.02	.02	.02
23.9600	.02	.02	.02	.02	.02

24.0600 | .01 .01 .00 .00 .00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 8.15

Name.... SUBAREA 10

Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm

Duration = 24.0000 hrs Rain Depth = 5.6000 in

Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Rain File -ID = - TypeII 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

HYG File - ID = - SUBAREA 10 25

Tc (Min. Tc) = .0833 hrs

Drainage Area = .400 acres Runoff CN= 90

```

=====
Computational Time Increment = .01111 hrs
Computed Peak Time          = 11.9175 hrs
Computed Peak Flow          = 2.66 cfs

```

```

Time Increment for HYG File = .0200 hrs
Peak Time, Interpolated Output = 11.9201 hrs
Peak Flow, Interpolated Output = 2.66 cfs
=====

```

DRAINAGE AREA

-----  
ID:SUBAREA 10

CN = 90

Area = .400 acres

S = 1.1111 in

0.2S = .2222 in

Cumulative Runoff

-----  
4.4569 in

.149 ac-ft

HYG Volume... .149 ac-ft (area under HYG curve)

\*\*\*\*\* SCS UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .08330 hrs (ID: SUBAREA 10)



Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)  
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))  
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.44 cfs  
Unit peak time Tp = .05553 hrs  
Unit receding limb, Tr = .22213 hrs  
Total unit time, Tb = .27767 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.16

Name.... SUBAREA 10 Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm  
Duration = 24.0000 hrs Rain Depth = 5.6000 in  
Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
Rain File -ID = - TypeII 24hr  
Unit Hyd Type = Default Curvilinear  
HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
HYG File - ID = - SUBAREA 10 25  
Tc (Min. Tc) = .0833 hrs  
Drainage Area = .400 acres Runoff CN= 90  
Calc.Increment= .01111 hrs Out.Incr.= .0200 hrs  
HYG Volume = .149 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
3.7000	.00	.00	.00	.00	.00
3.8000	.00	.00	.00	.00	.00
3.9000	.00	.00	.00	.00	.00
4.0000	.00	.00	.00	.00	.00
4.1000	.00	.00	.00	.00	.00
4.2000	.00	.00	.00	.00	.00
4.3000	.00	.00	.00	.00	.00
4.4000	.00	.00	.00	.00	.00
4.5000	.00	.00	.00	.00	.00
4.6000	.00	.01	.01	.01	.01
4.7000	.01	.01	.01	.01	.01
4.8000	.01	.01	.01	.01	.01
4.9000	.01	.01	.01	.01	.01

5.0000	.01	.01	.01	.01	.01
5.1000	.01	.01	.01	.01	.01
5.2000	.01	.01	.01	.01	.01
5.3000	.01	.01	.01	.01	.01
5.4000	.01	.01	.01	.01	.01
5.5000	.01	.01	.01	.01	.01
5.6000	.01	.01	.01	.01	.01
5.7000	.01	.01	.01	.01	.01
5.8000	.01	.01	.01	.01	.01
5.9000	.01	.01	.01	.01	.01
6.0000	.01	.01	.01	.01	.01
6.1000	.01	.01	.01	.01	.01
6.2000	.01	.01	.01	.01	.01
6.3000	.01	.01	.01	.01	.01
6.4000	.01	.01	.01	.01	.01
6.5000	.02	.02	.02	.02	.02
6.6000	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.17

Name.... SUBAREA 10 Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
6.7000	.02	.02	.02	.02	.02
6.8000	.02	.02	.02	.02	.02
6.9000	.02	.02	.02	.02	.02
7.0000	.02	.02	.02	.02	.02
7.1000	.02	.02	.02	.02	.02
7.2000	.02	.02	.02	.02	.02
7.3000	.02	.02	.02	.02	.02
7.4000	.02	.02	.02	.02	.02
7.5000	.02	.02	.02	.02	.02
7.6000	.02	.02	.02	.02	.02
7.7000	.02	.02	.02	.02	.02
7.8000	.02	.02	.02	.02	.02
7.9000	.02	.02	.02	.02	.02
8.0000	.02	.02	.02	.02	.02
8.1000	.03	.03	.03	.03	.03
8.2000	.03	.03	.03	.03	.03
8.3000	.03	.03	.03	.03	.03
8.4000	.03	.03	.03	.03	.03
8.5000	.03	.03	.03	.03	.03
8.6000	.03	.03	.03	.03	.03

8.7000	.03	.04	.04	.04	.04
8.8000	.04	.04	.04	.04	.04
8.9000	.04	.04	.04	.04	.04
9.0000	.04	.04	.04	.04	.04
9.1000	.04	.04	.04	.04	.04
9.2000	.04	.04	.04	.04	.04
9.3000	.04	.04	.04	.04	.04
9.4000	.04	.04	.04	.04	.04
9.5000	.04	.04	.04	.05	.05
9.6000	.05	.05	.05	.05	.05
9.7000	.05	.05	.05	.05	.05
9.8000	.05	.05	.05	.05	.05
9.9000	.05	.05	.06	.06	.06
10.0000	.06	.06	.06	.06	.06
10.1000	.06	.06	.06	.06	.06
10.2000	.07	.07	.07	.07	.07
10.3000	.07	.07	.07	.07	.07
10.4000	.07	.08	.08	.08	.08
10.5000	.08	.08	.08	.08	.08
10.6000	.09	.09	.09	.09	.09
10.7000	.09	.09	.10	.10	.10
10.8000	.10	.10	.10	.10	.11
10.9000	.11	.11	.11	.11	.11
11.0000	.12	.12	.12	.12	.13
11.1000	.13	.13	.13	.14	.14

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.18

Name.... SUBAREA 10

Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
11.2000	.15	.15	.15	.16	.16
11.3000	.16	.17	.17	.18	.18
11.4000	.18	.19	.19	.20	.20
11.5000	.20	.22	.26	.32	.37
11.6000	.40	.44	.54	.66	.76
11.7000	.82	.89	1.02	1.19	1.32
11.8000	1.41	1.53	1.79	2.14	2.42
11.9000	2.60	2.66	2.56	2.38	2.22
12.0000	2.12	1.98	1.65	1.22	.87
12.1000	.66	.54	.47	.42	.39
12.2000	.37	.36	.35	.33	.32
12.3000	.32	.31	.30	.28	.27

12.4000	.27	.26	.25	.24	.23
12.5000	.22	.21	.21	.20	.19
12.6000	.19	.18	.18	.18	.17
12.7000	.17	.17	.17	.16	.16
12.8000	.16	.16	.16	.15	.15
12.9000	.15	.15	.15	.14	.14
13.0000	.14	.14	.14	.13	.13
13.1000	.13	.13	.13	.13	.12
13.2000	.12	.12	.12	.12	.12
13.3000	.12	.12	.12	.11	.11
13.4000	.11	.11	.11	.11	.11
13.5000	.11	.10	.10	.10	.10
13.6000	.10	.10	.10	.10	.10
13.7000	.10	.10	.09	.09	.09
13.8000	.09	.09	.09	.09	.09
13.9000	.09	.09	.09	.08	.08
14.0000	.08	.08	.08	.08	.08
14.1000	.08	.08	.08	.08	.08
14.2000	.08	.08	.08	.08	.08
14.3000	.08	.08	.08	.08	.08
14.4000	.08	.07	.07	.07	.07
14.5000	.07	.07	.07	.07	.07
14.6000	.07	.07	.07	.07	.07
14.7000	.07	.07	.07	.07	.07
14.8000	.07	.07	.07	.07	.07
14.9000	.07	.07	.07	.07	.07
15.0000	.07	.07	.07	.07	.06
15.1000	.06	.06	.06	.06	.06
15.2000	.06	.06	.06	.06	.06
15.3000	.06	.06	.06	.06	.06
15.4000	.06	.06	.06	.06	.06
15.5000	.06	.06	.06	.06	.06
15.6000	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.19

Name.... SUBAREA 10 Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
15.7000	.06	.06	.06	.05	.05
15.8000	.05	.05	.05	.05	.05
15.9000	.05	.05	.05	.05	.05
16.0000	.05	.05	.05	.05	.05

16.1000	.05	.05	.05	.05	.05
16.2000	.05	.05	.05	.05	.05
16.3000	.05	.05	.05	.05	.05
16.4000	.05	.05	.05	.05	.05
16.5000	.05	.05	.05	.05	.05
16.6000	.05	.05	.05	.05	.05
16.7000	.05	.05	.05	.05	.05
16.8000	.05	.05	.05	.05	.05
16.9000	.05	.05	.05	.05	.05
17.0000	.04	.04	.04	.04	.04
17.1000	.04	.04	.04	.04	.04
17.2000	.04	.04	.04	.04	.04
17.3000	.04	.04	.04	.04	.04
17.4000	.04	.04	.04	.04	.04
17.5000	.04	.04	.04	.04	.04
17.6000	.04	.04	.04	.04	.04
17.7000	.04	.04	.04	.04	.04
17.8000	.04	.04	.04	.04	.04
17.9000	.04	.04	.04	.04	.04
18.0000	.04	.04	.04	.04	.04
18.1000	.04	.04	.04	.04	.04
18.2000	.04	.04	.04	.04	.04
18.3000	.04	.04	.04	.04	.04
18.4000	.04	.04	.04	.04	.04
18.5000	.04	.04	.04	.04	.04
18.6000	.04	.04	.04	.04	.04
18.7000	.04	.04	.04	.04	.04
18.8000	.04	.04	.04	.03	.03
18.9000	.03	.03	.03	.03	.03
19.0000	.03	.03	.03	.03	.03
19.1000	.03	.03	.03	.03	.03
19.2000	.03	.03	.03	.03	.03
19.3000	.03	.03	.03	.03	.03
19.4000	.03	.03	.03	.03	.03
19.5000	.03	.03	.03	.03	.03
19.6000	.03	.03	.03	.03	.03
19.7000	.03	.03	.03	.03	.03
19.8000	.03	.03	.03	.03	.03
19.9000	.03	.03	.03	.03	.03
20.0000	.03	.03	.03	.03	.03
20.1000	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.20

Name.... SUBAREA 10 Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
20.2000	.03	.03	.03	.03	.03
20.3000	.03	.03	.03	.03	.03
20.4000	.03	.03	.03	.03	.03
20.5000	.03	.03	.03	.03	.03
20.6000	.03	.03	.03	.03	.03
20.7000	.03	.03	.03	.03	.03
20.8000	.03	.03	.03	.03	.03
20.9000	.03	.03	.03	.03	.03
21.0000	.03	.03	.03	.03	.03
21.1000	.03	.03	.03	.03	.03
21.2000	.03	.03	.03	.03	.03
21.3000	.03	.03	.03	.03	.03
21.4000	.03	.03	.03	.03	.03
21.5000	.03	.03	.03	.03	.03
21.6000	.03	.03	.03	.03	.03
21.7000	.03	.03	.03	.03	.03
21.8000	.03	.03	.03	.03	.03
21.9000	.03	.03	.03	.03	.03
22.0000	.03	.03	.03	.03	.03
22.1000	.03	.03	.03	.03	.03
22.2000	.03	.03	.03	.03	.03
22.3000	.03	.03	.03	.03	.03
22.4000	.03	.03	.03	.03	.03
22.5000	.03	.03	.03	.03	.03
22.6000	.03	.03	.03	.03	.03
22.7000	.03	.03	.03	.03	.03
22.8000	.03	.03	.03	.03	.03
22.9000	.03	.03	.03	.03	.03
23.0000	.03	.03	.03	.03	.03
23.1000	.03	.03	.03	.03	.03
23.2000	.03	.03	.02	.02	.02
23.3000	.02	.02	.02	.02	.02
23.4000	.02	.02	.02	.02	.02
23.5000	.02	.02	.02	.02	.02
23.6000	.02	.02	.02	.02	.02
23.7000	.02	.02	.02	.02	.02
23.8000	.02	.02	.02	.02	.02
23.9000	.02	.02	.02	.02	.02
24.0000	.02	.02	.02	.01	.01
24.1000	.00	.00	.00	.00	

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. Summary

Name.... SUBAREA 10

Tag: 50

Page 8.21

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
Storm... TypeII 24hr Tag: 50

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 50 year storm  
Duration = 24.0000 hrs Rain Depth = 6.3800 in  
Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
Rain File -ID = - TypeII 24hr  
Unit Hyd Type = Default Curvilinear  
HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
HYG File - ID = - SUBAREA 10 50  
Tc (Min. Tc) = .0833 hrs  
Drainage Area = .400 acres Runoff CN= 90

=====  
Computational Time Increment = .01111 hrs  
Computed Peak Time = 11.9175 hrs  
Computed Peak Flow = 3.09 cfs  
  
Time Increment for HYG File = .0200 hrs  
Peak Time, Interpolated Output = 11.9201 hrs  
Peak Flow, Interpolated Output = 3.08 cfs  
=====

DRAINAGE AREA

-----  
ID:SUBAREA 10  
CN = 90  
Area = .400 acres  
S = 1.1111 in  
0.2S = .2222 in

Cumulative Runoff

-----  
5.2165 in  
.174 ac-ft

HYG Volume... .174 ac-ft (area under HYG curve)

\*\*\*\*\* SCS UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .08330 hrs (ID: SUBAREA 10)  
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)  
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))  
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.44 cfs

Unit peak time Tp = .05553 hrs  
 Unit receding limb, Tr = .22213 hrs  
 Total unit time, Tb = .27767 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 8.22  
 Name.... SUBAREA 10 Tag: 50 Event: 50 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 50

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 50 year storm  
 Duration = 24.0000 hrs Rain Depth = 6.3800 in  
 Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Rain File -ID = - TypeII 24hr  
 Unit Hyd Type = Default Curvilinear  
 HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 HYG File - ID = - SUBAREA 10 50  
 Tc (Min. Tc) = .0833 hrs  
 Drainage Area = .400 acres Runoff CN= 90  
 Calc.Increment= .01111 hrs Out.Incr.= .0200 hrs  
 HYG Volume = .174 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
3.2800	.00	.00	.00	.00	.00
3.3800	.00	.00	.00	.00	.00
3.4800	.00	.00	.00	.00	.00
3.5800	.00	.00	.00	.00	.00
3.6800	.00	.00	.00	.00	.00
3.7800	.00	.00	.00	.00	.00
3.8800	.00	.00	.00	.00	.00
3.9800	.00	.00	.00	.00	.00
4.0800	.00	.01	.01	.01	.01
4.1800	.01	.01	.01	.01	.01
4.2800	.01	.01	.01	.01	.01
4.3800	.01	.01	.01	.01	.01
4.4800	.01	.01	.01	.01	.01
4.5800	.01	.01	.01	.01	.01
4.6800	.01	.01	.01	.01	.01
4.7800	.01	.01	.01	.01	.01
4.8800	.01	.01	.01	.01	.01
4.9800	.01	.01	.01	.01	.01
5.0800	.01	.01	.01	.01	.01
5.1800	.01	.01	.01	.01	.01



5.2800	.01	.01	.01	.01	.01
5.3800	.01	.01	.01	.01	.01
5.4800	.01	.01	.01	.01	.01
5.5800	.01	.01	.01	.01	.01
5.6800	.01	.01	.01	.01	.02
5.7800	.02	.02	.02	.02	.02
5.8800	.02	.02	.02	.02	.02
5.9800	.02	.02	.02	.02	.02
6.0800	.02	.02	.02	.02	.02
6.1800	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.23

Name.... SUBAREA 10 Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
6.2800	.02	.02	.02	.02	.02
6.3800	.02	.02	.02	.02	.02
6.4800	.02	.02	.02	.02	.02
6.5800	.02	.02	.02	.02	.02
6.6800	.02	.02	.02	.02	.02
6.7800	.02	.02	.02	.02	.02
6.8800	.02	.02	.02	.02	.02
6.9800	.02	.02	.02	.02	.02
7.0800	.02	.02	.02	.02	.02
7.1800	.02	.02	.03	.03	.03
7.2800	.03	.03	.03	.03	.03
7.3800	.03	.03	.03	.03	.03
7.4800	.03	.03	.03	.03	.03
7.5800	.03	.03	.03	.03	.03
7.6800	.03	.03	.03	.03	.03
7.7800	.03	.03	.03	.03	.03
7.8800	.03	.03	.03	.03	.03
7.9800	.03	.03	.03	.03	.03
8.0800	.03	.03	.03	.03	.03
8.1800	.03	.03	.03	.03	.03
8.2800	.04	.04	.04	.04	.04
8.3800	.04	.04	.04	.04	.04
8.4800	.04	.04	.04	.04	.04
8.5800	.04	.04	.04	.04	.04
8.6800	.04	.04	.04	.04	.05
8.7800	.05	.05	.05	.05	.05
8.8800	.05	.05	.05	.05	.05

8.9800	.05	.05	.05	.05	.05
9.0800	.05	.05	.05	.05	.05
9.1800	.05	.05	.05	.05	.05
9.2800	.05	.05	.05	.05	.05
9.3800	.05	.05	.05	.05	.05
9.4800	.05	.05	.05	.06	.06
9.5800	.06	.06	.06	.06	.06
9.6800	.06	.06	.06	.06	.06
9.7800	.06	.06	.06	.06	.07
9.8800	.07	.07	.07	.07	.07
9.9800	.07	.07	.07	.07	.07
10.0800	.07	.07	.08	.08	.08
10.1800	.08	.08	.08	.08	.08
10.2800	.08	.08	.09	.09	.09
10.3800	.09	.09	.09	.09	.09
10.4800	.09	.10	.10	.10	.10
10.5800	.10	.10	.10	.11	.11
10.6800	.11	.11	.11	.11	.12

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.24

Name.... SUBAREA 10

Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
10.7800	.12	.12	.12	.12	.13
10.8800	.13	.13	.13	.13	.14
10.9800	.14	.14	.14	.14	.15
11.0800	.15	.15	.16	.16	.17
11.1800	.17	.17	.18	.18	.19
11.2800	.19	.20	.20	.20	.21
11.3800	.21	.22	.22	.23	.23
11.4800	.24	.24	.26	.31	.38
11.5800	.44	.47	.52	.63	.78
11.6800	.90	.97	1.05	1.20	1.39
11.7800	1.54	1.65	1.79	2.09	2.49
11.8800	2.82	3.02	3.08	2.97	2.75
11.9800	2.56	2.45	2.29	1.91	1.41
12.0800	1.00	.76	.62	.54	.49
12.1800	.45	.43	.42	.40	.38
12.2800	.37	.36	.36	.34	.33
12.3800	.32	.31	.30	.29	.27
12.4800	.26	.25	.25	.24	.23
12.5800	.22	.21	.21	.21	.20

12.6800	.20	.20	.20	.19	.19
12.7800	.19	.19	.18	.18	.18
12.8800	.17	.17	.17	.17	.16
12.9800	.16	.16	.16	.16	.15
13.0800	.15	.15	.15	.15	.14
13.1800	.14	.14	.14	.14	.14
13.2800	.14	.14	.13	.13	.13
13.3800	.13	.13	.13	.13	.12
13.4800	.12	.12	.12	.12	.12
13.5800	.12	.12	.11	.11	.11
13.6800	.11	.11	.11	.11	.11
13.7800	.11	.11	.10	.10	.10
13.8800	.10	.10	.10	.10	.10
13.9800	.10	.10	.09	.09	.09
14.0800	.09	.09	.09	.09	.09
14.1800	.09	.09	.09	.09	.09
14.2800	.09	.09	.09	.09	.09
14.3800	.09	.09	.09	.09	.09
14.4800	.08	.08	.08	.08	.08
14.5800	.08	.08	.08	.08	.08
14.6800	.08	.08	.08	.08	.08
14.7800	.08	.08	.08	.08	.08
14.8800	.08	.08	.08	.08	.08
14.9800	.08	.08	.08	.08	.07
15.0800	.07	.07	.07	.07	.07
15.1800	.07	.07	.07	.07	.07

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.25

Name.... SUBAREA 10 Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
15.2800	.07	.07	.07	.07	.07
15.3800	.07	.07	.07	.07	.07
15.4800	.07	.07	.07	.07	.07
15.5800	.07	.07	.07	.06	.06
15.6800	.06	.06	.06	.06	.06
15.7800	.06	.06	.06	.06	.06
15.8800	.06	.06	.06	.06	.06
15.9800	.06	.06	.06	.06	.06
16.0800	.06	.06	.06	.06	.06
16.1800	.06	.06	.06	.06	.06
16.2800	.06	.06	.06	.06	.06

16.3800	.06	.06	.06	.06	.06
16.4800	.05	.05	.05	.05	.05
16.5800	.05	.05	.05	.05	.05
16.6800	.05	.05	.05	.05	.05
16.7800	.05	.05	.05	.05	.05
16.8800	.05	.05	.05	.05	.05
16.9800	.05	.05	.05	.05	.05
17.0800	.05	.05	.05	.05	.05
17.1800	.05	.05	.05	.05	.05
17.2800	.05	.05	.05	.05	.05
17.3800	.05	.05	.05	.05	.05
17.4800	.05	.05	.05	.05	.05
17.5800	.05	.05	.05	.05	.05
17.6800	.05	.05	.05	.05	.05
17.7800	.05	.05	.05	.05	.05
17.8800	.05	.05	.05	.05	.05
17.9800	.05	.05	.05	.05	.05
18.0800	.04	.04	.04	.04	.04
18.1800	.04	.04	.04	.04	.04
18.2800	.04	.04	.04	.04	.04
18.3800	.04	.04	.04	.04	.04
18.4800	.04	.04	.04	.04	.04
18.5800	.04	.04	.04	.04	.04
18.6800	.04	.04	.04	.04	.04
18.7800	.04	.04	.04	.04	.04
18.8800	.04	.04	.04	.04	.04
18.9800	.04	.04	.04	.04	.04
19.0800	.04	.04	.04	.04	.04
19.1800	.04	.04	.04	.04	.04
19.2800	.04	.04	.04	.04	.04
19.3800	.04	.04	.04	.04	.04
19.4800	.04	.04	.04	.04	.04
19.5800	.04	.04	.04	.04	.04
19.6800	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.26

Name.... SUBAREA 10 Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
19.7800	.03	.03	.03	.03	.03
19.8800	.03	.03	.03	.03	.03
19.9800	.03	.03	.03	.03	.03

20.0800	.03	.03	.03	.03	.03
20.1800	.03	.03	.03	.03	.03
20.2800	.03	.03	.03	.03	.03
20.3800	.03	.03	.03	.03	.03
20.4800	.03	.03	.03	.03	.03
20.5800	.03	.03	.03	.03	.03
20.6800	.03	.03	.03	.03	.03
20.7800	.03	.03	.03	.03	.03
20.8800	.03	.03	.03	.03	.03
20.9800	.03	.03	.03	.03	.03
21.0800	.03	.03	.03	.03	.03
21.1800	.03	.03	.03	.03	.03
21.2800	.03	.03	.03	.03	.03
21.3800	.03	.03	.03	.03	.03
21.4800	.03	.03	.03	.03	.03
21.5800	.03	.03	.03	.03	.03
21.6800	.03	.03	.03	.03	.03
21.7800	.03	.03	.03	.03	.03
21.8800	.03	.03	.03	.03	.03
21.9800	.03	.03	.03	.03	.03
22.0800	.03	.03	.03	.03	.03
22.1800	.03	.03	.03	.03	.03
22.2800	.03	.03	.03	.03	.03
22.3800	.03	.03	.03	.03	.03
22.4800	.03	.03	.03	.03	.03
22.5800	.03	.03	.03	.03	.03
22.6800	.03	.03	.03	.03	.03
22.7800	.03	.03	.03	.03	.03
22.8800	.03	.03	.03	.03	.03
22.9800	.03	.03	.03	.03	.03
23.0800	.03	.03	.03	.03	.03
23.1800	.03	.03	.03	.03	.03
23.2800	.03	.03	.03	.03	.03
23.3800	.03	.03	.03	.03	.03
23.4800	.03	.03	.03	.03	.03
23.5800	.03	.03	.03	.03	.03
23.6800	.03	.03	.03	.03	.03
23.7800	.03	.03	.03	.03	.03
23.8800	.03	.03	.03	.03	.03
23.9800	.03	.03	.03	.02	.01
24.0800	.01	.00	.00	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 8.27

Name.... SUBAREA 10 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 24.0000 hrs Rain Depth = 7.2100 in  
Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
Rain File -ID = - TypeII 24hr  
Unit Hyd Type = Default Curvilinear  
HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
HYG File - ID = - SUBAREA 10 100  
Tc (Min. Tc) = .0833 hrs  
Drainage Area = .400 acres Runoff CN= 90

=====  
Computational Time Increment = .01111 hrs  
Computed Peak Time = 11.9175 hrs  
Computed Peak Flow = 3.54 cfs  
  
Time Increment for HYG File = .0200 hrs  
Peak Time, Interpolated Output = 11.9201 hrs  
Peak Flow, Interpolated Output = 3.53 cfs  
=====

DRAINAGE AREA

-----  
ID:SUBAREA 10  
CN = 90  
Area = .400 acres  
S = 1.1111 in  
0.2S = .2222 in

Cumulative Runoff

-----  
6.0291 in  
.201 ac-ft

HYG Volume... .201 ac-ft (area under HYG curve)

\*\*\*\*\* SCS UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .08330 hrs (ID: SUBAREA 10)  
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)  
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))  
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.44 cfs  
Unit peak time Tp = .05553 hrs  
Unit receding limb, Tr = .22213 hrs  
Total unit time, Tb = .27767 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.28

Name.... SUBAREA 10 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 24.0000 hrs Rain Depth = 7.2100 in

Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Rain File -ID = - TypeII 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

HYG File - ID = - SUBAREA 10 100

Tc (Min. Tc) = .0833 hrs

Drainage Area = .400 acres Runoff CN= 90

Calc.Increment= .01111 hrs Out.Incr.= .0200 hrs

HYG Volume = .201 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
2.9400	.00	.00	.00	.00	.00
3.0400	.00	.00	.00	.00	.00
3.1400	.00	.00	.00	.00	.00
3.2400	.00	.00	.00	.00	.00
3.3400	.00	.00	.00	.00	.00
3.4400	.00	.00	.00	.00	.00
3.5400	.00	.00	.00	.00	.01
3.6400	.01	.01	.01	.01	.01
3.7400	.01	.01	.01	.01	.01
3.8400	.01	.01	.01	.01	.01
3.9400	.01	.01	.01	.01	.01
4.0400	.01	.01	.01	.01	.01
4.1400	.01	.01	.01	.01	.01
4.2400	.01	.01	.01	.01	.01
4.3400	.01	.01	.01	.01	.01
4.4400	.01	.01	.01	.01	.01
4.5400	.01	.01	.01	.01	.01
4.6400	.01	.01	.01	.01	.01
4.7400	.01	.01	.01	.01	.01
4.8400	.01	.01	.01	.01	.01
4.9400	.01	.01	.01	.01	.01
5.0400	.01	.01	.01	.01	.02
5.1400	.02	.02	.02	.02	.02

5.2400		.02	.02	.02	.02	.02
5.3400		.02	.02	.02	.02	.02
5.4400		.02	.02	.02	.02	.02
5.5400		.02	.02	.02	.02	.02
5.6400		.02	.02	.02	.02	.02
5.7400		.02	.02	.02	.02	.02
5.8400		.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.29

Name.... SUBAREA 10 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs					
	Time on left represents time for first value in each row.					
5.9400		.02	.02	.02	.02	.02
6.0400		.02	.02	.02	.02	.02
6.1400		.02	.02	.02	.02	.02
6.2400		.02	.02	.02	.02	.02
6.3400		.02	.02	.02	.02	.03
6.4400		.03	.03	.03	.03	.03
6.5400		.03	.03	.03	.03	.03
6.6400		.03	.03	.03	.03	.03
6.7400		.03	.03	.03	.03	.03
6.8400		.03	.03	.03	.03	.03
6.9400		.03	.03	.03	.03	.03
7.0400		.03	.03	.03	.03	.03
7.1400		.03	.03	.03	.03	.03
7.2400		.03	.03	.03	.03	.03
7.3400		.03	.03	.03	.03	.03
7.4400		.03	.03	.03	.03	.03
7.5400		.03	.03	.03	.03	.03
7.6400		.03	.04	.04	.04	.04
7.7400		.04	.04	.04	.04	.04
7.8400		.04	.04	.04	.04	.04
7.9400		.04	.04	.04	.04	.04
8.0400		.04	.04	.04	.04	.04
8.1400		.04	.04	.04	.04	.04
8.2400		.04	.04	.04	.04	.04
8.3400		.04	.05	.05	.05	.05
8.4400		.05	.05	.05	.05	.05
8.5400		.05	.05	.05	.05	.05
8.6400		.05	.05	.05	.05	.05
8.7400		.05	.05	.06	.06	.06
8.8400		.06	.06	.06	.06	.06



8.9400	.06	.06	.06	.06	.06
9.0400	.06	.06	.06	.06	.06
9.1400	.06	.06	.06	.06	.06
9.2400	.06	.06	.06	.06	.06
9.3400	.06	.06	.06	.07	.07
9.4400	.07	.07	.07	.07	.07
9.5400	.07	.07	.07	.07	.07
9.6400	.07	.07	.07	.07	.07
9.7400	.07	.07	.07	.08	.08
9.8400	.08	.08	.08	.08	.08
9.9400	.08	.08	.08	.08	.08
10.0400	.09	.09	.09	.09	.09
10.1400	.09	.09	.09	.09	.10
10.2400	.10	.10	.10	.10	.10
10.3400	.10	.10	.11	.11	.11

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.30

Name.... SUBAREA 10 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
10.4400	.11	.11	.11	.11	.11
10.5400	.12	.12	.12	.12	.12
10.6400	.12	.13	.13	.13	.13
10.7400	.14	.14	.14	.14	.14
10.8400	.15	.15	.15	.15	.15
10.9400	.16	.16	.16	.16	.17
11.0400	.17	.17	.18	.18	.18
11.1400	.19	.19	.20	.20	.21
11.2400	.21	.22	.23	.23	.23
11.3400	.24	.25	.25	.25	.26
11.4400	.26	.27	.28	.28	.30
11.5400	.36	.44	.51	.55	.61
11.6400	.74	.90	1.04	1.13	1.22
11.7400	1.39	1.61	1.78	1.90	2.06
11.8400	2.40	2.86	3.24	3.46	3.53
11.9400	3.40	3.15	2.93	2.80	2.61
12.0400	2.18	1.61	1.14	.87	.71
12.1400	.62	.55	.51	.49	.48
12.2400	.46	.44	.42	.41	.41
12.3400	.39	.37	.36	.35	.34
12.4400	.33	.31	.30	.29	.28
12.5400	.27	.26	.25	.24	.24

12.6400	.24	.23	.23	.23	.22
12.7400	.22	.22	.21	.21	.21
12.8400	.21	.20	.20	.20	.19
12.9400	.19	.19	.18	.18	.18
13.0400	.18	.17	.17	.17	.17
13.1400	.17	.16	.16	.16	.16
13.2400	.16	.16	.15	.15	.15
13.3400	.15	.15	.15	.15	.14
13.4400	.14	.14	.14	.14	.14
13.5400	.14	.13	.13	.13	.13
13.6400	.13	.13	.13	.13	.12
13.7400	.12	.12	.12	.12	.12
13.8400	.12	.12	.11	.11	.11
13.9400	.11	.11	.11	.11	.11
14.0400	.11	.11	.10	.10	.10
14.1400	.10	.10	.10	.10	.10
14.2400	.10	.10	.10	.10	.10
14.3400	.10	.10	.10	.10	.10
14.4400	.10	.10	.10	.10	.10
14.5400	.10	.09	.09	.09	.09
14.6400	.09	.09	.09	.09	.09
14.7400	.09	.09	.09	.09	.09
14.8400	.09	.09	.09	.09	.09

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.31

Name.... SUBAREA 10 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
14.9400	.09	.09	.09	.09	.09
15.0400	.09	.09	.08	.08	.08
15.1400	.08	.08	.08	.08	.08
15.2400	.08	.08	.08	.08	.08
15.3400	.08	.08	.08	.08	.08
15.4400	.08	.08	.08	.08	.08
15.5400	.08	.08	.07	.07	.07
15.6400	.07	.07	.07	.07	.07
15.7400	.07	.07	.07	.07	.07
15.8400	.07	.07	.07	.07	.07
15.9400	.07	.07	.07	.07	.07
16.0400	.07	.07	.07	.07	.07
16.1400	.06	.06	.06	.06	.06
16.2400	.06	.06	.06	.06	.06

16.3400	.06	.06	.06	.06	.06
16.4400	.06	.06	.06	.06	.06
16.5400	.06	.06	.06	.06	.06
16.6400	.06	.06	.06	.06	.06
16.7400	.06	.06	.06	.06	.06
16.8400	.06	.06	.06	.06	.06
16.9400	.06	.06	.06	.06	.06
17.0400	.06	.06	.06	.06	.06
17.1400	.06	.06	.06	.06	.06
17.2400	.06	.06	.06	.06	.06
17.3400	.06	.06	.06	.06	.06
17.4400	.06	.06	.06	.06	.06
17.5400	.05	.05	.05	.05	.05
17.6400	.05	.05	.05	.05	.05
17.7400	.05	.05	.05	.05	.05
17.8400	.05	.05	.05	.05	.05
17.9400	.05	.05	.05	.05	.05
18.0400	.05	.05	.05	.05	.05
18.1400	.05	.05	.05	.05	.05
18.2400	.05	.05	.05	.05	.05
18.3400	.05	.05	.05	.05	.05
18.4400	.05	.05	.05	.05	.05
18.5400	.05	.05	.05	.05	.05
18.6400	.05	.05	.05	.05	.05
18.7400	.05	.05	.05	.05	.05
18.8400	.05	.05	.05	.05	.05
18.9400	.05	.04	.04	.04	.04
19.0400	.04	.04	.04	.04	.04
19.1400	.04	.04	.04	.04	.04
19.2400	.04	.04	.04	.04	.04
19.3400	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.32

Name.... SUBAREA 10 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
19.4400	.04	.04	.04	.04	.04
19.5400	.04	.04	.04	.04	.04
19.6400	.04	.04	.04	.04	.04
19.7400	.04	.04	.04	.04	.04
19.8400	.04	.04	.04	.04	.04
19.9400	.04	.04	.04	.04	.04

20.0400	.04	.04	.04	.04	.04
20.1400	.04	.04	.04	.04	.04
20.2400	.04	.04	.04	.04	.04
20.3400	.04	.04	.04	.04	.04
20.4400	.04	.04	.04	.04	.04
20.5400	.04	.04	.04	.04	.04
20.6400	.04	.04	.04	.04	.04
20.7400	.04	.04	.04	.04	.04
20.8400	.04	.04	.04	.04	.04
20.9400	.04	.04	.04	.04	.04
21.0400	.04	.04	.04	.04	.04
21.1400	.04	.04	.04	.04	.04
21.2400	.04	.04	.04	.04	.04
21.3400	.04	.04	.04	.04	.04
21.4400	.04	.04	.04	.04	.04
21.5400	.03	.03	.03	.03	.03
21.6400	.03	.03	.03	.03	.03
21.7400	.03	.03	.03	.03	.03
21.8400	.03	.03	.03	.03	.03
21.9400	.03	.03	.03	.03	.03
22.0400	.03	.03	.03	.03	.03
22.1400	.03	.03	.03	.03	.03
22.2400	.03	.03	.03	.03	.03
22.3400	.03	.03	.03	.03	.03
22.4400	.03	.03	.03	.03	.03
22.5400	.03	.03	.03	.03	.03
22.6400	.03	.03	.03	.03	.03
22.7400	.03	.03	.03	.03	.03
22.8400	.03	.03	.03	.03	.03
22.9400	.03	.03	.03	.03	.03
23.0400	.03	.03	.03	.03	.03
23.1400	.03	.03	.03	.03	.03
23.2400	.03	.03	.03	.03	.03
23.3400	.03	.03	.03	.03	.03
23.4400	.03	.03	.03	.03	.03
23.5400	.03	.03	.03	.03	.03
23.6400	.03	.03	.03	.03	.03
23.7400	.03	.03	.03	.03	.03
23.8400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.33

Name.... SUBAREA 10 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time |

Output Time increment = .0200 hrs

hrs	Time on left represents time for first value in each row.				
23.9400	.03	.03	.03	.03	.03
24.0400	.02	.02	.01	.00	.00
24.1400	.00	.00			

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 8.34

Name.... SUBAREA 20

Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 24.0000 hrs Rain Depth = 3.1000 in

Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Rain File -ID = - TypeII 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

HYG File - ID = - SUBAREA 20 2

Tc (Min. Tc) = .0833 hrs

Drainage Area = .400 acres Runoff CN= 98

```
=====
Computational Time Increment = .01111 hrs
Computed Peak Time          = 11.9175 hrs
Computed Peak Flow          = 1.60 cfs
```

```
Time Increment for HYG File = .0200 hrs
Peak Time, Interpolated Output = 11.9201 hrs
Peak Flow, Interpolated Output = 1.59 cfs
=====
```

DRAINAGE AREA

-----  
ID:SUBAREA 20

CN = 98

Area = .400 acres

S = .2041 in

0.2S = .0408 in

Cumulative Runoff

-----  
2.8679 in  
.096 ac-ft

HYG Volume... .096 ac-ft (area under HYG curve)

\*\*\*\*\* SCS UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .08330 hrs (ID: SUBAREA 20)  
 Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)  
 K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))  
 Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.44 cfs  
 Unit peak time Tp = .05553 hrs  
 Unit receding limb, Tr = .22213 hrs  
 Total unit time, Tb = .27767 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.35

Name.... SUBAREA 20 Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 2 year storm

Duration = 24.0000 hrs Rain Depth = 3.1000 in  
 Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Rain File -ID = - TypeII 24hr  
 Unit Hyd Type = Default Curvilinear  
 HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 HYG File - ID = - SUBAREA 20 2  
 Tc (Min. Tc) = .0833 hrs  
 Drainage Area = .400 acres Runoff CN= 98  
 Calc.Increment= .01111 hrs Out.Incr.= .0200 hrs  
 HYG Volume = .096 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
1.5000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.7000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
1.9000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.1000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.3000	.00	.00	.00	.00	.00

2.4000	.00	.00	.00	.00	.00
2.5000	.01	.01	.01	.01	.01
2.6000	.01	.01	.01	.01	.01
2.7000	.01	.01	.01	.01	.01
2.8000	.01	.01	.01	.01	.01
2.9000	.01	.01	.01	.01	.01
3.0000	.01	.01	.01	.01	.01
3.1000	.01	.01	.01	.01	.01
3.2000	.01	.01	.01	.01	.01
3.3000	.01	.01	.01	.01	.01
3.4000	.01	.01	.01	.01	.01
3.5000	.01	.01	.01	.01	.01
3.6000	.01	.01	.01	.01	.01
3.7000	.01	.01	.01	.01	.01
3.8000	.01	.01	.01	.01	.01
3.9000	.01	.01	.01	.01	.01
4.0000	.01	.01	.01	.01	.01
4.1000	.01	.01	.01	.01	.01
4.2000	.01	.01	.01	.01	.01
4.3000	.01	.01	.01	.01	.01
4.4000	.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.36

Name.... SUBAREA 20 Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
4.5000	.01	.01	.01	.01	.01
4.6000	.01	.01	.01	.01	.01
4.7000	.01	.01	.01	.01	.01
4.8000	.01	.01	.01	.01	.01
4.9000	.01	.01	.01	.01	.01
5.0000	.01	.01	.01	.01	.01
5.1000	.01	.01	.01	.01	.01
5.2000	.01	.01	.01	.01	.01
5.3000	.01	.01	.01	.01	.01
5.4000	.01	.01	.01	.01	.01
5.5000	.02	.02	.02	.02	.02
5.6000	.02	.02	.02	.02	.02
5.7000	.02	.02	.02	.02	.02
5.8000	.02	.02	.02	.02	.02
5.9000	.02	.02	.02	.02	.02
6.0000	.02	.02	.02	.02	.02

6.1000	.02	.02	.02	.02	.02
6.2000	.02	.02	.02	.02	.02
6.3000	.02	.02	.02	.02	.02
6.4000	.02	.02	.02	.02	.02
6.5000	.02	.02	.02	.02	.02
6.6000	.02	.02	.02	.02	.02
6.7000	.02	.02	.02	.02	.02
6.8000	.02	.02	.02	.02	.02
6.9000	.02	.02	.02	.02	.02
7.0000	.02	.02	.02	.02	.02
7.1000	.02	.02	.02	.02	.02
7.2000	.02	.02	.02	.02	.02
7.3000	.02	.02	.02	.02	.02
7.4000	.02	.02	.02	.02	.02
7.5000	.02	.02	.02	.02	.02
7.6000	.02	.02	.02	.02	.02
7.7000	.02	.02	.02	.02	.02
7.8000	.02	.02	.02	.02	.02
7.9000	.02	.02	.02	.02	.02
8.0000	.02	.02	.02	.02	.02
8.1000	.02	.02	.02	.02	.02
8.2000	.03	.03	.03	.03	.03
8.3000	.03	.03	.03	.03	.03
8.4000	.03	.03	.03	.03	.03
8.5000	.03	.03	.03	.03	.03
8.6000	.03	.03	.03	.03	.03
8.7000	.03	.03	.03	.03	.03
8.8000	.03	.03	.03	.03	.03
8.9000	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.37

Name.... SUBAREA 20 Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

9.0000	.03	.03	.04	.04	.04
9.1000	.04	.04	.04	.04	.04
9.2000	.04	.04	.04	.04	.04
9.3000	.04	.04	.04	.04	.04
9.4000	.04	.04	.04	.04	.04
9.5000	.04	.04	.04	.04	.04
9.6000	.04	.04	.04	.04	.04
9.7000	.04	.04	.04	.04	.04



9.8000	.04	.04	.04	.04	.04
9.9000	.04	.04	.04	.04	.04
10.0000	.04	.05	.05	.05	.05
10.1000	.05	.05	.05	.05	.05
10.2000	.05	.05	.05	.05	.05
10.3000	.05	.05	.05	.05	.06
10.4000	.06	.06	.06	.06	.06
10.5000	.06	.06	.06	.06	.06
10.6000	.06	.06	.06	.07	.07
10.7000	.07	.07	.07	.07	.07
10.8000	.07	.07	.07	.08	.08
10.9000	.08	.08	.08	.08	.08
11.0000	.08	.08	.08	.09	.09
11.1000	.09	.09	.09	.10	.10
11.2000	.10	.10	.11	.11	.11
11.3000	.11	.11	.12	.12	.12
11.4000	.12	.13	.13	.13	.13
11.5000	.14	.15	.17	.21	.25
11.6000	.27	.29	.35	.43	.49
11.7000	.53	.57	.65	.75	.83
11.8000	.88	.95	1.10	1.31	1.47
11.9000	1.57	1.59	1.53	1.41	1.31
12.0000	1.25	1.16	.97	.71	.51
12.1000	.38	.32	.27	.24	.23
12.2000	.22	.21	.20	.19	.19
12.3000	.18	.18	.17	.17	.16
12.4000	.15	.15	.14	.14	.13
12.5000	.13	.12	.12	.11	.11
12.6000	.11	.11	.10	.10	.10
12.7000	.10	.10	.10	.10	.09
12.8000	.09	.09	.09	.09	.09
12.9000	.09	.09	.08	.08	.08
13.0000	.08	.08	.08	.08	.08
13.1000	.07	.07	.07	.07	.07
13.2000	.07	.07	.07	.07	.07
13.3000	.07	.07	.07	.07	.06
13.4000	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.38

Name.... SUBAREA 20 Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time | Output Time increment = .0200 hrs  
hrs | Time on left represents time for first value in each row.

-----

13.5000	.06	.06	.06	.06	.06
13.6000	.06	.06	.06	.06	.06
13.7000	.06	.05	.05	.05	.05
13.8000	.05	.05	.05	.05	.05
13.9000	.05	.05	.05	.05	.05
14.0000	.05	.05	.05	.05	.05
14.1000	.05	.05	.05	.05	.04
14.2000	.04	.04	.04	.04	.04
14.3000	.04	.04	.04	.04	.04
14.4000	.04	.04	.04	.04	.04
14.5000	.04	.04	.04	.04	.04
14.6000	.04	.04	.04	.04	.04
14.7000	.04	.04	.04	.04	.04
14.8000	.04	.04	.04	.04	.04
14.9000	.04	.04	.04	.04	.04
15.0000	.04	.04	.04	.04	.04
15.1000	.04	.04	.04	.04	.04
15.2000	.04	.04	.04	.04	.04
15.3000	.04	.04	.03	.03	.03
15.4000	.03	.03	.03	.03	.03
15.5000	.03	.03	.03	.03	.03
15.6000	.03	.03	.03	.03	.03
15.7000	.03	.03	.03	.03	.03
15.8000	.03	.03	.03	.03	.03
15.9000	.03	.03	.03	.03	.03
16.0000	.03	.03	.03	.03	.03
16.1000	.03	.03	.03	.03	.03
16.2000	.03	.03	.03	.03	.03
16.3000	.03	.03	.03	.03	.03
16.4000	.03	.03	.03	.03	.03
16.5000	.03	.03	.03	.03	.03
16.6000	.03	.03	.03	.03	.03
16.7000	.03	.03	.03	.03	.03
16.8000	.03	.03	.03	.03	.03
16.9000	.03	.03	.03	.03	.03
17.0000	.03	.03	.03	.03	.03
17.1000	.03	.03	.03	.03	.03
17.2000	.03	.03	.02	.02	.02
17.3000	.02	.02	.02	.02	.02
17.4000	.02	.02	.02	.02	.02
17.5000	.02	.02	.02	.02	.02
17.6000	.02	.02	.02	.02	.02
17.7000	.02	.02	.02	.02	.02
17.8000	.02	.02	.02	.02	.02
17.9000	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.39

Name.... SUBAREA 20                    Tag:            2                    Event: 2 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr    Tag:            2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	-----				
18.0000	.02	.02	.02	.02	.02
18.1000	.02	.02	.02	.02	.02
18.2000	.02	.02	.02	.02	.02
18.3000	.02	.02	.02	.02	.02
18.4000	.02	.02	.02	.02	.02
18.5000	.02	.02	.02	.02	.02
18.6000	.02	.02	.02	.02	.02
18.7000	.02	.02	.02	.02	.02
18.8000	.02	.02	.02	.02	.02
18.9000	.02	.02	.02	.02	.02
19.0000	.02	.02	.02	.02	.02
19.1000	.02	.02	.02	.02	.02
19.2000	.02	.02	.02	.02	.02
19.3000	.02	.02	.02	.02	.02
19.4000	.02	.02	.02	.02	.02
19.5000	.02	.02	.02	.02	.02
19.6000	.02	.02	.02	.02	.02
19.7000	.02	.02	.02	.02	.02
19.8000	.02	.02	.02	.02	.02
19.9000	.02	.02	.02	.02	.02
20.0000	.02	.02	.02	.02	.02
20.1000	.02	.02	.02	.02	.02
20.2000	.02	.02	.02	.02	.02
20.3000	.02	.02	.02	.02	.02
20.4000	.02	.02	.02	.02	.02
20.5000	.02	.02	.02	.02	.02
20.6000	.02	.02	.02	.02	.02
20.7000	.02	.02	.02	.02	.02
20.8000	.02	.02	.02	.02	.02
20.9000	.02	.02	.02	.02	.02
21.0000	.02	.02	.02	.02	.02
21.1000	.02	.02	.02	.02	.02
21.2000	.02	.02	.02	.02	.02
21.3000	.02	.02	.02	.02	.02
21.4000	.02	.02	.02	.02	.02
21.5000	.02	.02	.02	.02	.02
21.6000	.02	.02	.02	.02	.02
21.7000	.02	.02	.02	.02	.02
21.8000	.02	.02	.02	.02	.02
21.9000	.02	.02	.02	.02	.01
22.0000	.01	.01	.01	.01	.01
22.1000	.01	.01	.01	.01	.01

22.2000	.01	.01	.01	.01	.01
22.3000	.01	.01	.01	.01	.01
22.4000	.01	.01	.01	.01	.01

S/N:  
 PondPack Ver:                          Compute Time:                          Date:



Type.... Unit Hyd. (HYG output)                          Page 8.40  
 Name.... SUBAREA 20                          Tag:                          2                          Event: 2 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr                          Tag:                          2

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

---

Time hrs					
22.5000	.01	.01	.01	.01	.01
22.6000	.01	.01	.01	.01	.01
22.7000	.01	.01	.01	.01	.01
22.8000	.01	.01	.01	.01	.01
22.9000	.01	.01	.01	.01	.01
23.0000	.01	.01	.01	.01	.01
23.1000	.01	.01	.01	.01	.01
23.2000	.01	.01	.01	.01	.01
23.3000	.01	.01	.01	.01	.01
23.4000	.01	.01	.01	.01	.01
23.5000	.01	.01	.01	.01	.01
23.6000	.01	.01	.01	.01	.01
23.7000	.01	.01	.01	.01	.01
23.8000	.01	.01	.01	.01	.01
23.9000	.01	.01	.01	.01	.01
24.0000	.01	.01	.01	.01	.00
24.1000	.00	.00	.00		

S/N:  
 PondPack Ver:                          Compute Time:                          Date:



Type.... Unit Hyd. Summary                          Page 8.41  
 Name.... SUBAREA 20                          Tag:                          15                          Event: 15 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr                          Tag:                          15

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm  
 Duration                          = 24.0000 hrs                          Rain Depth = 5.0300 in  
 Rain Dir                          = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Rain File -ID = - TypeII 24hr  
 Unit Hyd Type = Default Curvilinear  
 HYG Dir                          = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 \

HYG File - ID = - SUBAREA 20 15  
Tc (Min. Tc) = .0833 hrs  
Drainage Area = .400 acres Runoff CN= 98

=====  
Computational Time Increment = .01111 hrs  
Computed Peak Time = 11.9175 hrs  
Computed Peak Flow = 2.62 cfs

Time Increment for HYG File = .0200 hrs  
Peak Time, Interpolated Output = 11.9201 hrs  
Peak Flow, Interpolated Output = 2.61 cfs  
=====

DRAINAGE AREA

-----  
ID:SUBAREA 20  
CN = 98  
Area = .400 acres  
S = .2041 in  
0.2S = .0408 in

Cumulative Runoff

-----  
4.7931 in  
.160 ac-ft

HYG Volume... .160 ac-ft (area under HYG curve)

\*\*\*\*\* SCS UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .08330 hrs (ID: SUBAREA 20)  
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)  
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))  
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.44 cfs  
Unit peak time Tp = .05553 hrs  
Unit receding limb, Tr = .22213 hrs  
Total unit time, Tb = .27767 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.42

Name.... SUBAREA 20 Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 15 year storm  
 Duration = 24.0000 hrs Rain Depth = 5.0300 in  
 Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Rain File -ID = - TypeII 24hr  
 Unit Hyd Type = Default Curvilinear  
 HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 HYG File - ID = - SUBAREA 20 15  
 Tc (Min. Tc) = .0833 hrs  
 Drainage Area = .400 acres Runoff CN= 98  
 Calc.Increment= .01111 hrs Out.Incr.= .0200 hrs  
 HYG Volume = .160 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
.9200	.00	.00	.00	.00	.00
1.0200	.00	.00	.00	.00	.00
1.1200	.00	.00	.00	.00	.00
1.2200	.00	.00	.00	.00	.00
1.3200	.00	.01	.01	.01	.01
1.4200	.01	.01	.01	.01	.01
1.5200	.01	.01	.01	.01	.01
1.6200	.01	.01	.01	.01	.01
1.7200	.01	.01	.01	.01	.01
1.8200	.01	.01	.01	.01	.01
1.9200	.01	.01	.01	.01	.01
2.0200	.01	.01	.01	.01	.01
2.1200	.01	.01	.01	.01	.01
2.2200	.01	.01	.01	.01	.01
2.3200	.01	.01	.01	.01	.01
2.4200	.01	.01	.01	.01	.01
2.5200	.01	.01	.01	.01	.01
2.6200	.01	.01	.01	.01	.01
2.7200	.01	.01	.02	.02	.02
2.8200	.02	.02	.02	.02	.02
2.9200	.02	.02	.02	.02	.02
3.0200	.02	.02	.02	.02	.02
3.1200	.02	.02	.02	.02	.02
3.2200	.02	.02	.02	.02	.02
3.3200	.02	.02	.02	.02	.02
3.4200	.02	.02	.02	.02	.02
3.5200	.02	.02	.02	.02	.02
3.6200	.02	.02	.02	.02	.02
3.7200	.02	.02	.02	.02	.02
3.8200	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.43

Name.... SUBAREA 20 Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
3.9200	.02	.02	.02	.02	.02
4.0200	.02	.02	.02	.02	.02
4.1200	.02	.02	.02	.02	.02
4.2200	.02	.02	.02	.02	.02
4.3200	.02	.02	.02	.02	.02
4.4200	.02	.02	.02	.02	.02
4.5200	.02	.02	.02	.02	.02
4.6200	.02	.02	.02	.02	.02
4.7200	.02	.02	.02	.03	.03
4.8200	.03	.03	.03	.03	.03
4.9200	.03	.03	.03	.03	.03
5.0200	.03	.03	.03	.03	.03
5.1200	.03	.03	.03	.03	.03
5.2200	.03	.03	.03	.03	.03
5.3200	.03	.03	.03	.03	.03
5.4200	.03	.03	.03	.03	.03
5.5200	.03	.03	.03	.03	.03
5.6200	.03	.03	.03	.03	.03
5.7200	.03	.03	.03	.03	.03
5.8200	.03	.03	.03	.03	.03
5.9200	.03	.03	.03	.03	.03
6.0200	.03	.03	.03	.03	.03
6.1200	.03	.03	.03	.03	.03
6.2200	.03	.03	.03	.03	.03
6.3200	.03	.03	.03	.03	.03
6.4200	.03	.03	.03	.03	.03
6.5200	.03	.03	.03	.03	.03
6.6200	.03	.03	.03	.03	.03
6.7200	.03	.04	.04	.04	.04
6.8200	.04	.04	.04	.04	.04
6.9200	.04	.04	.04	.04	.04
7.0200	.04	.04	.04	.04	.04
7.1200	.04	.04	.04	.04	.04
7.2200	.04	.04	.04	.04	.04
7.3200	.04	.04	.04	.04	.04
7.4200	.04	.04	.04	.04	.04
7.5200	.04	.04	.04	.04	.04
7.6200	.04	.04	.04	.04	.04

7.7200	.04	.04	.04	.04	.04
7.8200	.04	.04	.04	.04	.04
7.9200	.04	.04	.04	.04	.04
8.0200	.04	.04	.04	.04	.04
8.1200	.04	.04	.04	.04	.04
8.2200	.04	.04	.05	.05	.05
8.3200	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.44

Name.... SUBAREA 20 Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
8.4200	.05	.05	.05	.05	.05
8.5200	.05	.05	.05	.05	.05
8.6200	.05	.05	.05	.05	.05
8.7200	.05	.05	.06	.06	.06
8.8200	.06	.06	.06	.06	.06
8.9200	.06	.06	.06	.06	.06
9.0200	.06	.06	.06	.06	.06
9.1200	.06	.06	.06	.06	.06
9.2200	.06	.06	.06	.06	.06
9.3200	.06	.06	.06	.06	.06
9.4200	.06	.06	.06	.06	.06
9.5200	.06	.06	.06	.06	.06
9.6200	.06	.06	.07	.07	.07
9.7200	.07	.07	.07	.07	.07
9.8200	.07	.07	.07	.07	.07
9.9200	.07	.07	.07	.08	.08
10.0200	.08	.08	.08	.08	.08
10.1200	.08	.08	.08	.08	.08
10.2200	.09	.09	.09	.09	.09
10.3200	.09	.09	.09	.09	.09
10.4200	.09	.10	.10	.10	.10
10.5200	.10	.10	.10	.10	.11
10.6200	.11	.11	.11	.11	.11
10.7200	.11	.12	.12	.12	.12
10.8200	.12	.12	.13	.13	.13
10.9200	.13	.13	.13	.14	.14
11.0200	.14	.14	.15	.15	.15
11.1200	.15	.16	.16	.17	.17
11.2200	.17	.18	.18	.19	.19
11.3200	.19	.19	.20	.20	.21



11.4200	.21	.21	.22	.22	.23
11.5200	.24	.29	.35	.41	.44
11.6200	.48	.58	.71	.81	.88
11.7200	.95	1.07	1.24	1.37	1.45
11.8200	1.56	1.81	2.14	2.41	2.57
11.9200	2.61	2.50	2.31	2.14	2.04
12.0200	1.90	1.58	1.16	.83	.63
12.1200	.51	.44	.40	.37	.36
12.2200	.34	.33	.32	.30	.30
12.3200	.29	.28	.27	.26	.25
12.4200	.25	.24	.22	.21	.21
12.5200	.20	.19	.19	.18	.18
12.6200	.17	.17	.17	.16	.16
12.7200	.16	.16	.16	.15	.15
12.8200	.15	.15	.14	.14	.14

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.45

Name.... SUBAREA 20

Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
12.9200	.14	.14	.13	.13	.13
13.0200	.13	.13	.12	.12	.12
13.1200	.12	.12	.12	.12	.12
13.2200	.12	.11	.11	.11	.11
13.3200	.11	.11	.11	.11	.10
13.4200	.10	.10	.10	.10	.10
13.5200	.10	.10	.10	.09	.09
13.6200	.09	.09	.09	.09	.09
13.7200	.09	.09	.09	.09	.09
13.8200	.09	.08	.08	.08	.08
13.9200	.08	.08	.08	.08	.08
14.0200	.08	.08	.08	.08	.07
14.1200	.07	.07	.07	.07	.07
14.2200	.07	.07	.07	.07	.07
14.3200	.07	.07	.07	.07	.07
14.4200	.07	.07	.07	.07	.07
14.5200	.07	.07	.07	.07	.07
14.6200	.07	.07	.07	.07	.07
14.7200	.07	.07	.07	.06	.06
14.8200	.06	.06	.06	.06	.06
14.9200	.06	.06	.06	.06	.06
15.0200	.06	.06	.06	.06	.06

15.1200	.06	.06	.06	.06	.06
15.2200	.06	.06	.06	.06	.06
15.3200	.06	.06	.06	.06	.06
15.4200	.06	.06	.06	.05	.05
15.5200	.05	.05	.05	.05	.05
15.6200	.05	.05	.05	.05	.05
15.7200	.05	.05	.05	.05	.05
15.8200	.05	.05	.05	.05	.05
15.9200	.05	.05	.05	.05	.05
16.0200	.05	.05	.05	.05	.05
16.1200	.05	.05	.05	.05	.05
16.2200	.05	.05	.05	.05	.05
16.3200	.05	.05	.05	.04	.04
16.4200	.04	.04	.04	.04	.04
16.5200	.04	.04	.04	.04	.04
16.6200	.04	.04	.04	.04	.04
16.7200	.04	.04	.04	.04	.04
16.8200	.04	.04	.04	.04	.04
16.9200	.04	.04	.04	.04	.04
17.0200	.04	.04	.04	.04	.04
17.1200	.04	.04	.04	.04	.04
17.2200	.04	.04	.04	.04	.04
17.3200	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.46

Name.... SUBAREA 20 Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
17.4200	.04	.04	.04	.04	.04
17.5200	.04	.04	.04	.04	.04
17.6200	.04	.04	.04	.04	.04
17.7200	.04	.04	.04	.04	.04
17.8200	.04	.04	.04	.04	.04
17.9200	.04	.04	.04	.04	.04
18.0200	.04	.04	.04	.04	.04
18.1200	.04	.04	.04	.04	.04
18.2200	.04	.04	.04	.04	.04
18.3200	.04	.04	.03	.03	.03
18.4200	.03	.03	.03	.03	.03
18.5200	.03	.03	.03	.03	.03
18.6200	.03	.03	.03	.03	.03
18.7200	.03	.03	.03	.03	.03

18.8200	.03	.03	.03	.03	.03
18.9200	.03	.03	.03	.03	.03
19.0200	.03	.03	.03	.03	.03
19.1200	.03	.03	.03	.03	.03
19.2200	.03	.03	.03	.03	.03
19.3200	.03	.03	.03	.03	.03
19.4200	.03	.03	.03	.03	.03
19.5200	.03	.03	.03	.03	.03
19.6200	.03	.03	.03	.03	.03
19.7200	.03	.03	.03	.03	.03
19.8200	.03	.03	.03	.03	.03
19.9200	.03	.03	.03	.03	.03
20.0200	.03	.03	.03	.03	.03
20.1200	.03	.03	.03	.03	.03
20.2200	.03	.03	.03	.03	.03
20.3200	.03	.03	.03	.03	.03
20.4200	.03	.03	.03	.03	.03
20.5200	.03	.03	.03	.03	.03
20.6200	.03	.03	.03	.03	.03
20.7200	.03	.03	.03	.03	.03
20.8200	.03	.03	.03	.03	.03
20.9200	.03	.03	.03	.03	.03
21.0200	.03	.03	.03	.03	.03
21.1200	.03	.03	.03	.03	.03
21.2200	.03	.03	.03	.03	.03
21.3200	.03	.03	.03	.02	.02
21.4200	.02	.02	.02	.02	.02
21.5200	.02	.02	.02	.02	.02
21.6200	.02	.02	.02	.02	.02
21.7200	.02	.02	.02	.02	.02
21.8200	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.47

Name.... SUBAREA 20 Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
21.9200	.02	.02	.02	.02	.02
22.0200	.02	.02	.02	.02	.02
22.1200	.02	.02	.02	.02	.02
22.2200	.02	.02	.02	.02	.02
22.3200	.02	.02	.02	.02	.02
22.4200	.02	.02	.02	.02	.02

22.5200	.02	.02	.02	.02	.02
22.6200	.02	.02	.02	.02	.02
22.7200	.02	.02	.02	.02	.02
22.8200	.02	.02	.02	.02	.02
22.9200	.02	.02	.02	.02	.02
23.0200	.02	.02	.02	.02	.02
23.1200	.02	.02	.02	.02	.02
23.2200	.02	.02	.02	.02	.02
23.3200	.02	.02	.02	.02	.02
23.4200	.02	.02	.02	.02	.02
23.5200	.02	.02	.02	.02	.02
23.6200	.02	.02	.02	.02	.02
23.7200	.02	.02	.02	.02	.02
23.8200	.02	.02	.02	.02	.02
23.9200	.02	.02	.02	.02	.02
24.0200	.02	.02	.01	.01	.00
24.1200	.00	.00	.00		

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 8.48

Name.... SUBAREA 20

Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm

Duration = 24.0000 hrs Rain Depth = 5.6000 in

Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Rain File -ID = - TypeII 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

HYG File - ID = - SUBAREA 20 25

Tc (Min. Tc) = .0833 hrs

Drainage Area = .400 acres Runoff CN= 98

=====  
Computational Time Increment = .01111 hrs

Computed Peak Time = 11.9175 hrs

Computed Peak Flow = 2.92 cfs

Time Increment for HYG File = .0200 hrs

Peak Time, Interpolated Output = 11.9201 hrs

Peak Flow, Interpolated Output = 2.91 cfs  
=====

DRAINAGE AREA

-----

ID:SUBAREA 20  
CN = 98  
Area = .400 acres  
S = .2041 in  
0.2S = .0408 in

Cumulative Runoff

-----  
5.3623 in  
.179 ac-ft

HYG Volume... .179 ac-ft (area under HYG curve)

\*\*\*\*\* SCS UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .08330 hrs (ID: SUBAREA 20)  
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)  
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))  
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.44 cfs  
Unit peak time Tp = .05553 hrs  
Unit receding limb, Tr = .22213 hrs  
Total unit time, Tb = .27767 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.49

Name.... SUBAREA 20 Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 25 year storm

Duration = 24.0000 hrs Rain Depth = 5.6000 in

Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Rain File -ID = - TypeII 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

HYG File - ID = - SUBAREA 20 25

Tc (Min. Tc) = .0833 hrs

Drainage Area = .400 acres Runoff CN= 98

Calc.Increment= .01111 hrs Out.Incr.= .0200 hrs

HYG Volume = .179 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs Time on left represents time for first value in each row.					
.8400	.00	.00	.00	.00	.00	.00
.9400	.00	.00	.00	.00	.00	.00
1.0400	.00	.00	.00	.00	.00	.00
1.1400	.00	.00	.01	.01	.01	.01
1.2400	.01	.01	.01	.01	.01	.01
1.3400	.01	.01	.01	.01	.01	.01
1.4400	.01	.01	.01	.01	.01	.01
1.5400	.01	.01	.01	.01	.01	.01
1.6400	.01	.01	.01	.01	.01	.01
1.7400	.01	.01	.01	.01	.01	.01
1.8400	.01	.01	.01	.01	.01	.01
1.9400	.01	.01	.01	.01	.01	.01
2.0400	.01	.01	.01	.01	.01	.01
2.1400	.01	.01	.01	.01	.01	.01
2.2400	.01	.01	.01	.02	.02	.02
2.3400	.02	.02	.02	.02	.02	.02
2.4400	.02	.02	.02	.02	.02	.02
2.5400	.02	.02	.02	.02	.02	.02
2.6400	.02	.02	.02	.02	.02	.02
2.7400	.02	.02	.02	.02	.02	.02
2.8400	.02	.02	.02	.02	.02	.02
2.9400	.02	.02	.02	.02	.02	.02
3.0400	.02	.02	.02	.02	.02	.02
3.1400	.02	.02	.02	.02	.02	.02
3.2400	.02	.02	.02	.02	.02	.02
3.3400	.02	.02	.02	.02	.02	.02
3.4400	.02	.02	.02	.02	.02	.02
3.5400	.02	.02	.02	.02	.02	.02
3.6400	.02	.02	.02	.02	.02	.02
3.7400	.02	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.50

Name.... SUBAREA 20 Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

Time hrs	HYDROGRAPH ORDINATES (cfs) Output Time increment = .0200 hrs Time on left represents time for first value in each row.					
3.8400	.02	.02	.02	.02	.02	.02
3.9400	.02	.02	.02	.02	.02	.02
4.0400	.02	.02	.02	.02	.02	.02
4.1400	.02	.03	.03	.03	.03	.03

4.2400	.03	.03	.03	.03	.03
4.3400	.03	.03	.03	.03	.03
4.4400	.03	.03	.03	.03	.03
4.5400	.03	.03	.03	.03	.03
4.6400	.03	.03	.03	.03	.03
4.7400	.03	.03	.03	.03	.03
4.8400	.03	.03	.03	.03	.03
4.9400	.03	.03	.03	.03	.03
5.0400	.03	.03	.03	.03	.03
5.1400	.03	.03	.03	.03	.03
5.2400	.03	.03	.03	.03	.03
5.3400	.03	.03	.03	.03	.03
5.4400	.03	.03	.03	.03	.03
5.5400	.03	.03	.03	.03	.03
5.6400	.03	.03	.03	.03	.03
5.7400	.03	.03	.03	.03	.03
5.8400	.03	.03	.04	.04	.04
5.9400	.04	.04	.04	.04	.04
6.0400	.04	.04	.04	.04	.04
6.1400	.04	.04	.04	.04	.04
6.2400	.04	.04	.04	.04	.04
6.3400	.04	.04	.04	.04	.04
6.4400	.04	.04	.04	.04	.04
6.5400	.04	.04	.04	.04	.04
6.6400	.04	.04	.04	.04	.04
6.7400	.04	.04	.04	.04	.04
6.8400	.04	.04	.04	.04	.04
6.9400	.04	.04	.04	.04	.04
7.0400	.04	.04	.04	.04	.04
7.1400	.04	.04	.04	.04	.04
7.2400	.04	.04	.04	.04	.04
7.3400	.04	.04	.04	.04	.04
7.4400	.04	.04	.04	.04	.04
7.5400	.04	.04	.04	.04	.04
7.6400	.04	.04	.04	.04	.04
7.7400	.05	.05	.05	.05	.05
7.8400	.05	.05	.05	.05	.05
7.9400	.05	.05	.05	.05	.05
8.0400	.05	.05	.05	.05	.05
8.1400	.05	.05	.05	.05	.05
8.2400	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.51

Name.... SUBAREA 20 Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
8.3400	.05	.05	.05	.05	.05
8.4400	.05	.06	.06	.06	.06
8.5400	.06	.06	.06	.06	.06
8.6400	.06	.06	.06	.06	.06
8.7400	.06	.06	.06	.06	.06
8.8400	.06	.06	.07	.07	.07
8.9400	.07	.07	.07	.07	.07
9.0400	.07	.07	.07	.07	.07
9.1400	.07	.07	.07	.07	.07
9.2400	.07	.07	.07	.07	.07
9.3400	.07	.07	.07	.07	.07
9.4400	.07	.07	.07	.07	.07
9.5400	.07	.07	.07	.07	.07
9.6400	.07	.07	.07	.07	.07
9.7400	.08	.08	.08	.08	.08
9.8400	.08	.08	.08	.08	.08
9.9400	.08	.08	.08	.09	.09
10.0400	.09	.09	.09	.09	.09
10.1400	.09	.09	.09	.09	.10
10.2400	.10	.10	.10	.10	.10
10.3400	.10	.10	.10	.11	.11
10.4400	.11	.11	.11	.11	.11
10.5400	.11	.12	.12	.12	.12
10.6400	.12	.12	.13	.13	.13
10.7400	.13	.13	.13	.14	.14
10.8400	.14	.14	.14	.14	.15
10.9400	.15	.15	.15	.15	.16
11.0400	.16	.16	.17	.17	.17
11.1400	.17	.18	.19	.19	.19
11.2400	.20	.20	.21	.21	.21
11.3400	.22	.22	.23	.23	.23
11.4400	.24	.25	.25	.25	.27
11.5400	.32	.40	.45	.49	.54
11.6400	.65	.79	.91	.98	1.05
11.7400	1.20	1.38	1.52	1.61	1.74
11.8400	2.02	2.39	2.69	2.86	2.91
11.9400	2.79	2.57	2.39	2.27	2.12
12.0400	1.76	1.30	.92	.70	.57
12.1400	.50	.44	.41	.40	.38
12.2400	.37	.35	.34	.33	.33
12.3400	.31	.30	.29	.28	.27
12.4400	.26	.25	.24	.23	.22
12.5400	.22	.21	.20	.20	.19
12.6400	.19	.19	.18	.18	.18
12.7400	.18	.17	.17	.17	.17



S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.52

Name.... SUBAREA 20 Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
12.8400	.16	.16	.16	.16	.16
12.9400	.15	.15	.15	.15	.14
13.0400	.14	.14	.14	.14	.13
13.1400	.13	.13	.13	.13	.13
13.2400	.13	.12	.12	.12	.12
13.3400	.12	.12	.12	.12	.12
13.4400	.11	.11	.11	.11	.11
13.5400	.11	.11	.11	.10	.10
13.6400	.10	.10	.10	.10	.10
13.7400	.10	.10	.10	.10	.09
13.8400	.09	.09	.09	.09	.09
13.9400	.09	.09	.09	.09	.09
14.0400	.09	.08	.08	.08	.08
14.1400	.08	.08	.08	.08	.08
14.2400	.08	.08	.08	.08	.08
14.3400	.08	.08	.08	.08	.08
14.4400	.08	.08	.08	.08	.08
14.5400	.08	.08	.08	.07	.07
14.6400	.07	.07	.07	.07	.07
14.7400	.07	.07	.07	.07	.07
14.8400	.07	.07	.07	.07	.07
14.9400	.07	.07	.07	.07	.07
15.0400	.07	.07	.07	.07	.07
15.1400	.07	.07	.07	.07	.07
15.2400	.06	.06	.06	.06	.06
15.3400	.06	.06	.06	.06	.06
15.4400	.06	.06	.06	.06	.06
15.5400	.06	.06	.06	.06	.06
15.6400	.06	.06	.06	.06	.06
15.7400	.06	.06	.06	.06	.06
15.8400	.06	.06	.05	.05	.05
15.9400	.05	.05	.05	.05	.05
16.0400	.05	.05	.05	.05	.05
16.1400	.05	.05	.05	.05	.05
16.2400	.05	.05	.05	.05	.05
16.3400	.05	.05	.05	.05	.05
16.4400	.05	.05	.05	.05	.05
16.5400	.05	.05	.05	.05	.05

16.6400	.05	.05	.05	.05	.05
16.7400	.05	.05	.05	.05	.05
16.8400	.05	.05	.05	.05	.05
16.9400	.05	.05	.05	.05	.05
17.0400	.05	.05	.05	.05	.05
17.1400	.05	.05	.05	.05	.05
17.2400	.05	.05	.05	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.53

Name.... SUBAREA 20 Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
17.3400	.04	.04	.04	.04	.04
17.4400	.04	.04	.04	.04	.04
17.5400	.04	.04	.04	.04	.04
17.6400	.04	.04	.04	.04	.04
17.7400	.04	.04	.04	.04	.04
17.8400	.04	.04	.04	.04	.04
17.9400	.04	.04	.04	.04	.04
18.0400	.04	.04	.04	.04	.04
18.1400	.04	.04	.04	.04	.04
18.2400	.04	.04	.04	.04	.04
18.3400	.04	.04	.04	.04	.04
18.4400	.04	.04	.04	.04	.04
18.5400	.04	.04	.04	.04	.04
18.6400	.04	.04	.04	.04	.04
18.7400	.04	.04	.04	.04	.04
18.8400	.04	.04	.04	.04	.04
18.9400	.04	.04	.04	.04	.04
19.0400	.04	.03	.03	.03	.03
19.1400	.03	.03	.03	.03	.03
19.2400	.03	.03	.03	.03	.03
19.3400	.03	.03	.03	.03	.03
19.4400	.03	.03	.03	.03	.03
19.5400	.03	.03	.03	.03	.03
19.6400	.03	.03	.03	.03	.03
19.7400	.03	.03	.03	.03	.03
19.8400	.03	.03	.03	.03	.03
19.9400	.03	.03	.03	.03	.03
20.0400	.03	.03	.03	.03	.03
20.1400	.03	.03	.03	.03	.03
20.2400	.03	.03	.03	.03	.03

20.3400	.03	.03	.03	.03	.03
20.4400	.03	.03	.03	.03	.03
20.5400	.03	.03	.03	.03	.03
20.6400	.03	.03	.03	.03	.03
20.7400	.03	.03	.03	.03	.03
20.8400	.03	.03	.03	.03	.03
20.9400	.03	.03	.03	.03	.03
21.0400	.03	.03	.03	.03	.03
21.1400	.03	.03	.03	.03	.03
21.2400	.03	.03	.03	.03	.03
21.3400	.03	.03	.03	.03	.03
21.4400	.03	.03	.03	.03	.03
21.5400	.03	.03	.03	.03	.03
21.6400	.03	.03	.03	.03	.03
21.7400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.54

Name.... SUBAREA 20

Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
21.8400	.03	.03	.03	.03	.03
21.9400	.03	.03	.03	.03	.03
22.0400	.03	.03	.03	.03	.03
22.1400	.03	.03	.03	.03	.03
22.2400	.03	.03	.03	.03	.03
22.3400	.03	.03	.03	.03	.03
22.4400	.03	.03	.03	.03	.03
22.5400	.03	.03	.03	.03	.03
22.6400	.03	.03	.03	.03	.03
22.7400	.03	.03	.03	.03	.03
22.8400	.03	.03	.03	.03	.03
22.9400	.03	.03	.03	.03	.03
23.0400	.03	.03	.03	.03	.03
23.1400	.03	.03	.03	.03	.03
23.2400	.03	.03	.03	.03	.03
23.3400	.03	.03	.03	.03	.03
23.4400	.03	.03	.03	.03	.03
23.5400	.03	.03	.03	.03	.03
23.6400	.03	.03	.03	.03	.03
23.7400	.03	.03	.03	.03	.03
23.8400	.03	.03	.03	.03	.03
23.9400	.02	.02	.02	.02	.02

24.0400 | .02 .01 .01 .00 .00  
24.1400 | .00 .00

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Unit Hyd. Summary

Page 8.55

Name.... SUBAREA 20 Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 50 year storm

Duration = 24.0000 hrs Rain Depth = 6.3800 in

Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Rain File -ID = - TypeII 24hr

Unit Hyd Type = Default Curvilinear

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

HYG File - ID = - SUBAREA 20 50

Tc (Min. Tc) = .0833 hrs

Drainage Area = .400 acres Runoff CN= 98

=====  
Computational Time Increment = .01111 hrs  
Computed Peak Time = 11.9175 hrs  
Computed Peak Flow = 3.32 cfs

Time Increment for HYG File = .0200 hrs  
Peak Time, Interpolated Output = 11.9201 hrs  
Peak Flow, Interpolated Output = 3.31 cfs  
=====

DRAINAGE AREA

-----  
ID:SUBAREA 20

CN = 98

Area = .400 acres

S = .2041 in

0.2S = .0408 in

Cumulative Runoff

-----  
6.1415 in

.205 ac-ft

HYG Volume... .205 ac-ft (area under HYG curve)

\*\*\*\*\* SCS UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .08330 hrs (ID: SUBAREA 20)  
 Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)  
 K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))  
 Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.44 cfs  
 Unit peak time Tp = .05553 hrs  
 Unit receding limb, Tr = .22213 hrs  
 Total unit time, Tb = .27767 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.56

Name.... SUBAREA 20 Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 50 year storm

Duration = 24.0000 hrs Rain Depth = 6.3800 in  
 Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Rain File -ID = - TypeII 24hr  
 Unit Hyd Type = Default Curvilinear  
 HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 HYG File - ID = - SUBAREA 20 50  
 Tc (Min. Tc) = .0833 hrs  
 Drainage Area = .400 acres Runoff CN= 98  
 Calc.Increment= .01111 hrs Out.Incr.= .0200 hrs  
 HYG Volume = .205 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
.7200	.00	.00	.00	.00	.00
.8200	.00	.00	.00	.00	.00
.9200	.00	.00	.00	.00	.01
1.0200	.01	.01	.01	.01	.01
1.1200	.01	.01	.01	.01	.01
1.2200	.01	.01	.01	.01	.01
1.3200	.01	.01	.01	.01	.01
1.4200	.01	.01	.01	.01	.01
1.5200	.01	.01	.01	.01	.01
1.6200	.01	.01	.01	.01	.01
1.7200	.01	.01	.01	.01	.01
1.8200	.01	.01	.02	.02	.02

1.9200	.02	.02	.02	.02	.02
2.0200	.02	.02	.02	.02	.02
2.1200	.02	.02	.02	.02	.02
2.2200	.02	.02	.02	.02	.02
2.3200	.02	.02	.02	.02	.02
2.4200	.02	.02	.02	.02	.02
2.5200	.02	.02	.02	.02	.02
2.6200	.02	.02	.02	.02	.02
2.7200	.02	.02	.02	.02	.02
2.8200	.02	.02	.02	.02	.02
2.9200	.02	.02	.02	.02	.02
3.0200	.02	.02	.02	.02	.02
3.1200	.02	.02	.02	.02	.02
3.2200	.02	.02	.03	.03	.03
3.3200	.03	.03	.03	.03	.03
3.4200	.03	.03	.03	.03	.03
3.5200	.03	.03	.03	.03	.03
3.6200	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.57

Name.... SUBAREA 20

Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
3.7200	.03	.03	.03	.03	.03
3.8200	.03	.03	.03	.03	.03
3.9200	.03	.03	.03	.03	.03
4.0200	.03	.03	.03	.03	.03
4.1200	.03	.03	.03	.03	.03
4.2200	.03	.03	.03	.03	.03
4.3200	.03	.03	.03	.03	.03
4.4200	.03	.03	.03	.03	.03
4.5200	.03	.03	.03	.03	.03
4.6200	.03	.03	.03	.03	.03
4.7200	.03	.03	.03	.03	.03
4.8200	.03	.03	.03	.03	.03
4.9200	.03	.03	.04	.04	.04
5.0200	.04	.04	.04	.04	.04
5.1200	.04	.04	.04	.04	.04
5.2200	.04	.04	.04	.04	.04
5.3200	.04	.04	.04	.04	.04
5.4200	.04	.04	.04	.04	.04
5.5200	.04	.04	.04	.04	.04

5.6200	.04	.04	.04	.04	.04
5.7200	.04	.04	.04	.04	.04
5.8200	.04	.04	.04	.04	.04
5.9200	.04	.04	.04	.04	.04
6.0200	.04	.04	.04	.04	.04
6.1200	.04	.04	.04	.04	.04
6.2200	.04	.04	.04	.04	.04
6.3200	.04	.04	.04	.04	.04
6.4200	.04	.04	.04	.04	.04
6.5200	.04	.04	.05	.05	.05
6.6200	.05	.05	.05	.05	.05
6.7200	.05	.05	.05	.05	.05
6.8200	.05	.05	.05	.05	.05
6.9200	.05	.05	.05	.05	.05
7.0200	.05	.05	.05	.05	.05
7.1200	.05	.05	.05	.05	.05
7.2200	.05	.05	.05	.05	.05
7.3200	.05	.05	.05	.05	.05
7.4200	.05	.05	.05	.05	.05
7.5200	.05	.05	.05	.05	.05
7.6200	.05	.05	.05	.05	.05
7.7200	.05	.05	.05	.05	.05
7.8200	.05	.05	.05	.05	.05
7.9200	.05	.05	.05	.05	.05
8.0200	.05	.05	.05	.05	.05
8.1200	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.58

Name.... SUBAREA 20 Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
8.2200	.06	.06	.06	.06	.06
8.3200	.06	.06	.06	.06	.06
8.4200	.06	.06	.06	.06	.06
8.5200	.07	.07	.07	.07	.07
8.6200	.07	.07	.07	.07	.07
8.7200	.07	.07	.07	.07	.07
8.8200	.07	.07	.07	.07	.08
8.9200	.08	.08	.08	.08	.08
9.0200	.08	.08	.08	.08	.08
9.1200	.08	.08	.08	.08	.08
9.2200	.08	.08	.08	.08	.08

9.3200	.08	.08	.08	.08	.08
9.4200	.08	.08	.08	.08	.08
9.5200	.08	.08	.08	.08	.08
9.6200	.08	.08	.08	.08	.09
9.7200	.09	.09	.09	.09	.09
9.8200	.09	.09	.09	.09	.09
9.9200	.09	.10	.10	.10	.10
10.0200	.10	.10	.10	.10	.10
10.1200	.10	.10	.11	.11	.11
10.2200	.11	.11	.11	.11	.11
10.3200	.12	.12	.12	.12	.12
10.4200	.12	.12	.12	.13	.13
10.5200	.13	.13	.13	.13	.14
10.6200	.14	.14	.14	.14	.14
10.7200	.15	.15	.15	.15	.16
10.8200	.16	.16	.16	.16	.17
10.9200	.17	.17	.17	.17	.18
11.0200	.18	.18	.19	.19	.19
11.1200	.19	.20	.21	.21	.22
11.2200	.22	.22	.23	.24	.24
11.3200	.24	.25	.26	.26	.26
11.4200	.27	.27	.28	.29	.29
11.5200	.31	.37	.45	.52	.56
11.6200	.62	.74	.91	1.04	1.12
11.7200	1.20	1.37	1.57	1.74	1.84
11.8200	1.98	2.30	2.72	3.06	3.26
11.9200	3.31	3.18	2.93	2.72	2.59
12.0200	2.41	2.01	1.48	1.05	.80
12.1200	.65	.56	.51	.47	.45
12.2200	.44	.42	.40	.39	.38
12.3200	.37	.36	.34	.33	.32
12.4200	.31	.30	.28	.27	.26
12.5200	.26	.25	.24	.23	.22
12.6200	.22	.22	.21	.21	.21

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.59

Name.... SUBAREA 20 Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
12.7200	.20	.20	.20	.19	.19
12.8200	.19	.19	.18	.18	.18
12.9200	.18	.17	.17	.17	.17



13.0200	.16	.16	.16	.16	.15
13.1200	.15	.15	.15	.15	.15
13.2200	.15	.14	.14	.14	.14
13.3200	.14	.14	.14	.13	.13
13.4200	.13	.13	.13	.13	.13
13.5200	.12	.12	.12	.12	.12
13.6200	.12	.12	.12	.11	.11
13.7200	.11	.11	.11	.11	.11
13.8200	.11	.11	.11	.10	.10
13.9200	.10	.10	.10	.10	.10
14.0200	.10	.10	.10	.10	.09
14.1200	.09	.09	.09	.09	.09
14.2200	.09	.09	.09	.09	.09
14.3200	.09	.09	.09	.09	.09
14.4200	.09	.09	.09	.09	.09
14.5200	.09	.09	.09	.09	.09
14.6200	.09	.08	.08	.08	.08
14.7200	.08	.08	.08	.08	.08
14.8200	.08	.08	.08	.08	.08
14.9200	.08	.08	.08	.08	.08
15.0200	.08	.08	.08	.08	.08
15.1200	.08	.08	.08	.07	.07
15.2200	.07	.07	.07	.07	.07
15.3200	.07	.07	.07	.07	.07
15.4200	.07	.07	.07	.07	.07
15.5200	.07	.07	.07	.07	.07
15.6200	.07	.07	.07	.07	.07
15.7200	.07	.07	.06	.06	.06
15.8200	.06	.06	.06	.06	.06
15.9200	.06	.06	.06	.06	.06
16.0200	.06	.06	.06	.06	.06
16.1200	.06	.06	.06	.06	.06
16.2200	.06	.06	.06	.06	.06
16.3200	.06	.06	.06	.06	.06
16.4200	.06	.06	.06	.06	.06
16.5200	.06	.06	.06	.06	.06
16.6200	.06	.06	.06	.06	.06
16.7200	.05	.05	.05	.05	.05
16.8200	.05	.05	.05	.05	.05
16.9200	.05	.05	.05	.05	.05
17.0200	.05	.05	.05	.05	.05
17.1200	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.60

Name.... SUBAREA 20 Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
17.2200	.05	.05	.05	.05	.05
17.3200	.05	.05	.05	.05	.05
17.4200	.05	.05	.05	.05	.05
17.5200	.05	.05	.05	.05	.05
17.6200	.05	.05	.05	.05	.05
17.7200	.05	.05	.05	.05	.05
17.8200	.05	.05	.05	.05	.05
17.9200	.05	.05	.05	.05	.05
18.0200	.05	.05	.05	.05	.05
18.1200	.05	.05	.05	.05	.05
18.2200	.05	.05	.04	.04	.04
18.3200	.04	.04	.04	.04	.04
18.4200	.04	.04	.04	.04	.04
18.5200	.04	.04	.04	.04	.04
18.6200	.04	.04	.04	.04	.04
18.7200	.04	.04	.04	.04	.04
18.8200	.04	.04	.04	.04	.04
18.9200	.04	.04	.04	.04	.04
19.0200	.04	.04	.04	.04	.04
19.1200	.04	.04	.04	.04	.04
19.2200	.04	.04	.04	.04	.04
19.3200	.04	.04	.04	.04	.04
19.4200	.04	.04	.04	.04	.04
19.5200	.04	.04	.04	.04	.04
19.6200	.04	.04	.04	.04	.04
19.7200	.04	.04	.04	.04	.04
19.8200	.03	.03	.03	.03	.03
19.9200	.03	.03	.03	.03	.03
20.0200	.03	.03	.03	.03	.03
20.1200	.03	.03	.03	.03	.03
20.2200	.03	.03	.03	.03	.03
20.3200	.03	.03	.03	.03	.03
20.4200	.03	.03	.03	.03	.03
20.5200	.03	.03	.03	.03	.03
20.6200	.03	.03	.03	.03	.03
20.7200	.03	.03	.03	.03	.03
20.8200	.03	.03	.03	.03	.03
20.9200	.03	.03	.03	.03	.03
21.0200	.03	.03	.03	.03	.03
21.1200	.03	.03	.03	.03	.03
21.2200	.03	.03	.03	.03	.03
21.3200	.03	.03	.03	.03	.03
21.4200	.03	.03	.03	.03	.03
21.5200	.03	.03	.03	.03	.03
21.6200	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.61

Name.... SUBAREA 20 Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
21.7200	.03	.03	.03	.03	.03
21.8200	.03	.03	.03	.03	.03
21.9200	.03	.03	.03	.03	.03
22.0200	.03	.03	.03	.03	.03
22.1200	.03	.03	.03	.03	.03
22.2200	.03	.03	.03	.03	.03
22.3200	.03	.03	.03	.03	.03
22.4200	.03	.03	.03	.03	.03
22.5200	.03	.03	.03	.03	.03
22.6200	.03	.03	.03	.03	.03
22.7200	.03	.03	.03	.03	.03
22.8200	.03	.03	.03	.03	.03
22.9200	.03	.03	.03	.03	.03
23.0200	.03	.03	.03	.03	.03
23.1200	.03	.03	.03	.03	.03
23.2200	.03	.03	.03	.03	.03
23.3200	.03	.03	.03	.03	.03
23.4200	.03	.03	.03	.03	.03
23.5200	.03	.03	.03	.03	.03
23.6200	.03	.03	.03	.03	.03
23.7200	.03	.03	.03	.03	.03
23.8200	.03	.03	.03	.03	.03
23.9200	.03	.03	.03	.03	.03
24.0200	.03	.02	.01	.01	.00
24.1200	.00	.00	.00		

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. Summary

Page 8.62

Name.... SUBAREA 20 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm

Duration = 24.0000 hrs Rain Depth = 7.2100 in  
Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
Rain File -ID = - TypeII 24hr  
Unit Hyd Type = Default Curvilinear  
HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
HYG File - ID = - SUBAREA 20 100  
Tc (Min. Tc) = .0833 hrs  
Drainage Area = .400 acres Runoff CN= 98

=====  
Computational Time Increment = .01111 hrs  
Computed Peak Time = 11.9175 hrs  
Computed Peak Flow = 3.76 cfs

Time Increment for HYG File = .0200 hrs  
Peak Time, Interpolated Output = 11.9201 hrs  
Peak Flow, Interpolated Output = 3.75 cfs  
=====

DRAINAGE AREA

-----  
ID:SUBAREA 20  
CN = 98  
Area = .400 acres  
S = .2041 in  
0.2S = .0408 in

Cumulative Runoff

-----  
6.9708 in  
.232 ac-ft

HYG Volume... .232 ac-ft (area under HYG curve)

\*\*\*\*\* SCS UNIT HYDROGRAPH PARAMETERS \*\*\*\*\*

Time Concentration, Tc = .08330 hrs (ID: SUBAREA 20)  
Computational Incr, Tm = .01111 hrs = 0.20000 Tp

Unit Hyd. Shape Factor = 483.432 (37.46% under rising limb)  
K = 483.43/645.333, K = .7491 (also, K = 2/(1+(Tr/Tp))  
Receding/Rising, Tr/Tp = 1.6698 (solved from K = .7491)

Unit peak, qp = 5.44 cfs  
Unit peak time Tp = .05553 hrs  
Unit receding limb, Tr = .22213 hrs  
Total unit time, Tb = .27767 hrs

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output) Page 8.63  
 Name.... SUBAREA 20 Tag: 100 Event: 100 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 100

SCS UNIT HYDROGRAPH METHOD

STORM EVENT: 100 year storm  
 Duration = 24.0000 hrs Rain Depth = 7.2100 in  
 Rain Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Rain File -ID = - TypeII 24hr  
 Unit Hyd Type = Default Curvilinear  
 HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 HYG File - ID = - SUBAREA 20 100  
 Tc (Min. Tc) = .0833 hrs  
 Drainage Area = .400 acres Runoff CN= 98  
 Calc.Increment= .01111 hrs Out.Incr.= .0200 hrs  
 HYG Volume = .232 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
.6400	.00	.00	.00	.00	.00
.7400	.00	.00	.00	.00	.00
.8400	.00	.01	.01	.01	.01
.9400	.01	.01	.01	.01	.01
1.0400	.01	.01	.01	.01	.01
1.1400	.01	.01	.01	.01	.01
1.2400	.01	.01	.01	.01	.01
1.3400	.01	.01	.01	.01	.01
1.4400	.01	.01	.01	.01	.02
1.5400	.02	.02	.02	.02	.02
1.6400	.02	.02	.02	.02	.02
1.7400	.02	.02	.02	.02	.02
1.8400	.02	.02	.02	.02	.02
1.9400	.02	.02	.02	.02	.02
2.0400	.02	.02	.02	.02	.02
2.1400	.02	.02	.02	.02	.02
2.2400	.02	.02	.02	.02	.02
2.3400	.02	.02	.02	.02	.02
2.4400	.02	.02	.02	.02	.02
2.5400	.02	.03	.03	.03	.03
2.6400	.03	.03	.03	.03	.03
2.7400	.03	.03	.03	.03	.03
2.8400	.03	.03	.03	.03	.03
2.9400	.03	.03	.03	.03	.03
3.0400	.03	.03	.03	.03	.03
3.1400	.03	.03	.03	.03	.03

3.2400	.03	.03	.03	.03	.03
3.3400	.03	.03	.03	.03	.03
3.4400	.03	.03	.03	.03	.03
3.5400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

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Name.... SUBAREA 20 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
3.6400	.03	.03	.03	.03	.03
3.7400	.03	.03	.03	.03	.03
3.8400	.03	.03	.03	.03	.03
3.9400	.03	.03	.03	.03	.03
4.0400	.03	.03	.03	.03	.03
4.1400	.03	.03	.04	.04	.04
4.2400	.04	.04	.04	.04	.04
4.3400	.04	.04	.04	.04	.04
4.4400	.04	.04	.04	.04	.04
4.5400	.04	.04	.04	.04	.04
4.6400	.04	.04	.04	.04	.04
4.7400	.04	.04	.04	.04	.04
4.8400	.04	.04	.04	.04	.04
4.9400	.04	.04	.04	.04	.04
5.0400	.04	.04	.04	.04	.04
5.1400	.04	.04	.04	.04	.04
5.2400	.04	.04	.04	.04	.04
5.3400	.04	.04	.04	.04	.04
5.4400	.04	.04	.04	.04	.04
5.5400	.04	.04	.05	.05	.05
5.6400	.05	.05	.05	.05	.05
5.7400	.05	.05	.05	.05	.05
5.8400	.05	.05	.05	.05	.05
5.9400	.05	.05	.05	.05	.05
6.0400	.05	.05	.05	.05	.05
6.1400	.05	.05	.05	.05	.05
6.2400	.05	.05	.05	.05	.05
6.3400	.05	.05	.05	.05	.05
6.4400	.05	.05	.05	.05	.05
6.5400	.05	.05	.05	.05	.05
6.6400	.05	.05	.05	.05	.05
6.7400	.05	.05	.05	.05	.05
6.8400	.05	.05	.05	.05	.05

6.9400	.05	.05	.05	.05	.05
7.0400	.05	.05	.06	.06	.06
7.1400	.06	.06	.06	.06	.06
7.2400	.06	.06	.06	.06	.06
7.3400	.06	.06	.06	.06	.06
7.4400	.06	.06	.06	.06	.06
7.5400	.06	.06	.06	.06	.06
7.6400	.06	.06	.06	.06	.06
7.7400	.06	.06	.06	.06	.06
7.8400	.06	.06	.06	.06	.06
7.9400	.06	.06	.06	.06	.06
8.0400	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.65

Name.... SUBAREA 20 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time hrs | Time on left represents time for first value in each row.

8.1400	.06	.06	.06	.07	.07
8.2400	.07	.07	.07	.07	.07
8.3400	.07	.07	.07	.07	.07
8.4400	.07	.07	.07	.07	.07
8.5400	.08	.08	.08	.08	.08
8.6400	.08	.08	.08	.08	.08
8.7400	.08	.08	.08	.08	.08
8.8400	.08	.08	.09	.09	.09
8.9400	.09	.09	.09	.09	.09
9.0400	.09	.09	.09	.09	.09
9.1400	.09	.09	.09	.09	.09
9.2400	.09	.09	.09	.09	.09
9.3400	.09	.09	.09	.09	.09
9.4400	.09	.09	.09	.09	.09
9.5400	.09	.09	.09	.09	.09
9.6400	.09	.10	.10	.10	.10
9.7400	.10	.10	.10	.10	.10
9.8400	.10	.10	.11	.11	.11
9.9400	.11	.11	.11	.11	.11
10.0400	.11	.11	.12	.12	.12
10.1400	.12	.12	.12	.12	.12
10.2400	.13	.13	.13	.13	.13
10.3400	.13	.13	.14	.14	.14
10.4400	.14	.14	.14	.14	.15
10.5400	.15	.15	.15	.15	.15

10.6400	.16	.16	.16	.16	.17
10.7400	.17	.17	.17	.18	.18
10.8400	.18	.18	.19	.19	.19
10.9400	.19	.19	.20	.20	.20
11.0400	.21	.21	.22	.22	.22
11.1400	.23	.23	.24	.24	.25
11.2400	.25	.26	.27	.27	.28
11.3400	.28	.29	.30	.30	.30
11.4400	.31	.32	.32	.33	.35
11.5400	.42	.51	.59	.64	.70
11.6400	.84	1.03	1.18	1.27	1.36
11.7400	1.55	1.78	1.97	2.08	2.24
11.8400	2.60	3.08	3.47	3.69	3.75
11.9400	3.59	3.32	3.08	2.93	2.73
12.0400	2.27	1.67	1.19	.90	.74
12.1400	.64	.57	.53	.51	.49
12.2400	.47	.45	.44	.43	.42
12.3400	.41	.39	.37	.36	.35
12.4400	.34	.32	.31	.30	.29
12.5400	.28	.27	.26	.25	.25

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.66

Name.... SUBAREA 20 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
12.6400	.24	.24	.23	.23	.23
12.7400	.23	.22	.22	.22	.22
12.8400	.21	.21	.20	.20	.20
12.9400	.20	.19	.19	.19	.19
13.0400	.18	.18	.18	.17	.17
13.1400	.17	.17	.17	.17	.17
13.2400	.16	.16	.16	.16	.16
13.3400	.16	.15	.15	.15	.15
13.4400	.15	.14	.14	.14	.14
13.5400	.14	.14	.14	.13	.13
13.6400	.13	.13	.13	.13	.13
13.7400	.13	.13	.12	.12	.12
13.8400	.12	.12	.12	.12	.12
13.9400	.12	.11	.11	.11	.11
14.0400	.11	.11	.11	.11	.11
14.1400	.11	.11	.10	.10	.10
14.2400	.10	.10	.10	.10	.10



14.3400	.10	.10	.10	.10	.10
14.4400	.10	.10	.10	.10	.10
14.5400	.10	.10	.10	.10	.10
14.6400	.10	.10	.09	.09	.09
14.7400	.09	.09	.09	.09	.09
14.8400	.09	.09	.09	.09	.09
14.9400	.09	.09	.09	.09	.09
15.0400	.09	.09	.09	.09	.09
15.1400	.09	.09	.08	.08	.08
15.2400	.08	.08	.08	.08	.08
15.3400	.08	.08	.08	.08	.08
15.4400	.08	.08	.08	.08	.08
15.5400	.08	.08	.08	.08	.08
15.6400	.08	.07	.07	.07	.07
15.7400	.07	.07	.07	.07	.07
15.8400	.07	.07	.07	.07	.07
15.9400	.07	.07	.07	.07	.07
16.0400	.07	.07	.07	.07	.07
16.1400	.07	.07	.07	.07	.07
16.2400	.07	.07	.07	.07	.07
16.3400	.06	.06	.06	.06	.06
16.4400	.06	.06	.06	.06	.06
16.5400	.06	.06	.06	.06	.06
16.6400	.06	.06	.06	.06	.06
16.7400	.06	.06	.06	.06	.06
16.8400	.06	.06	.06	.06	.06
16.9400	.06	.06	.06	.06	.06
17.0400	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.67

Name.... SUBAREA 20 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
17.1400	.06	.06	.06	.06	.06
17.2400	.06	.06	.06	.06	.06
17.3400	.06	.06	.06	.06	.06
17.4400	.06	.06	.06	.06	.06
17.5400	.06	.06	.06	.06	.06
17.6400	.06	.06	.06	.06	.05
17.7400	.05	.05	.05	.05	.05
17.8400	.05	.05	.05	.05	.05
17.9400	.05	.05	.05	.05	.05

18.0400	.05	.05	.05	.05	.05
18.1400	.05	.05	.05	.05	.05
18.2400	.05	.05	.05	.05	.05
18.3400	.05	.05	.05	.05	.05
18.4400	.05	.05	.05	.05	.05
18.5400	.05	.05	.05	.05	.05
18.6400	.05	.05	.05	.05	.05
18.7400	.05	.05	.05	.05	.05
18.8400	.05	.05	.05	.05	.05
18.9400	.05	.05	.05	.05	.05
19.0400	.05	.05	.04	.04	.04
19.1400	.04	.04	.04	.04	.04
19.2400	.04	.04	.04	.04	.04
19.3400	.04	.04	.04	.04	.04
19.4400	.04	.04	.04	.04	.04
19.5400	.04	.04	.04	.04	.04
19.6400	.04	.04	.04	.04	.04
19.7400	.04	.04	.04	.04	.04
19.8400	.04	.04	.04	.04	.04
19.9400	.04	.04	.04	.04	.04
20.0400	.04	.04	.04	.04	.04
20.1400	.04	.04	.04	.04	.04
20.2400	.04	.04	.04	.04	.04
20.3400	.04	.04	.04	.04	.04
20.4400	.04	.04	.04	.04	.04
20.5400	.04	.04	.04	.04	.04
20.6400	.04	.04	.04	.04	.04
20.7400	.04	.04	.04	.04	.04
20.8400	.04	.04	.04	.04	.04
20.9400	.04	.04	.04	.04	.04
21.0400	.04	.04	.04	.04	.04
21.1400	.04	.04	.04	.04	.04
21.2400	.04	.04	.04	.04	.04
21.3400	.04	.04	.04	.04	.04
21.4400	.04	.04	.04	.04	.04
21.5400	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Unit Hyd. (HYG output)

Page 8.68

Name.... SUBAREA 20 Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
Time on left represents time for first value in each row.					
21.6400	.04	.04	.04	.04	.04

21.7400	.04	.04	.04	.04	.04
21.8400	.04	.04	.04	.04	.04
21.9400	.04	.04	.03	.03	.03
22.0400	.03	.03	.03	.03	.03
22.1400	.03	.03	.03	.03	.03
22.2400	.03	.03	.03	.03	.03
22.3400	.03	.03	.03	.03	.03
22.4400	.03	.03	.03	.03	.03
22.5400	.03	.03	.03	.03	.03
22.6400	.03	.03	.03	.03	.03
22.7400	.03	.03	.03	.03	.03
22.8400	.03	.03	.03	.03	.03
22.9400	.03	.03	.03	.03	.03
23.0400	.03	.03	.03	.03	.03
23.1400	.03	.03	.03	.03	.03
23.2400	.03	.03	.03	.03	.03
23.3400	.03	.03	.03	.03	.03
23.4400	.03	.03	.03	.03	.03
23.5400	.03	.03	.03	.03	.03
23.6400	.03	.03	.03	.03	.03
23.7400	.03	.03	.03	.03	.03
23.8400	.03	.03	.03	.03	.03
23.9400	.03	.03	.03	.03	.03
24.0400	.02	.02	.01	.00	.00
24.1400	.00	.00			

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.01

Name.... OUT 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: OUT 10

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
ADDLINK 10       SUBAREA 10           SUBAREA 10    2
=====

```

INFLOWS TO: OUT 10

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
ac-ft         hrs         cfs
-----

```

SUBAREA 10                    2                    .069                    11.9200                    1.29

TOTAL FLOW INTO: OUT 10

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
OUT 10		2	.069	11.9200	1.29

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.02

Name.... OUT 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = OUT 10  
 HYG Tag = 2

-----  
 Peak Discharge = 1.29 cfs  
 Time to Peak = 11.9200 hrs  
 HYG Volume = .069 ac-ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
6.0600	.00	.00	.00	.00	.00
6.1600	.00	.00	.00	.00	.00
6.2600	.00	.00	.00	.00	.00
6.3600	.00	.00	.00	.00	.00
6.4600	.00	.00	.00	.00	.00
6.5600	.00	.00	.00	.00	.00
6.6600	.00	.00	.00	.00	.00
6.7600	.00	.00	.00	.00	.00
6.8600	.00	.00	.00	.00	.00
6.9600	.00	.00	.00	.00	.00
7.0600	.00	.00	.00	.00	.00
7.1600	.00	.00	.00	.00	.00
7.2600	.00	.00	.00	.00	.00
7.3600	.00	.00	.00	.00	.00
7.4600	.00	.00	.00	.00	.00
7.5600	.00	.00	.00	.00	.00
7.6600	.01	.01	.01	.01	.01
7.7600	.01	.01	.01	.01	.01

7.8600	.01	.01	.01	.01	.01
7.9600	.01	.01	.01	.01	.01
8.0600	.01	.01	.01	.01	.01
8.1600	.01	.01	.01	.01	.01
8.2600	.01	.01	.01	.01	.01
8.3600	.01	.01	.01	.01	.01
8.4600	.01	.01	.01	.01	.01
8.5600	.01	.01	.01	.01	.01
8.6600	.01	.01	.01	.01	.01
8.7600	.01	.01	.01	.01	.01
8.8600	.01	.01	.01	.01	.01
8.9600	.01	.01	.01	.01	.01
9.0600	.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.03

Name.... OUT 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
9.1600	.01	.01	.01	.01	.01
9.2600	.01	.01	.01	.01	.01
9.3600	.01	.01	.01	.01	.01
9.4600	.01	.01	.01	.01	.01
9.5600	.01	.01	.02	.02	.02
9.6600	.02	.02	.02	.02	.02
9.7600	.02	.02	.02	.02	.02
9.8600	.02	.02	.02	.02	.02
9.9600	.02	.02	.02	.02	.02
10.0600	.02	.02	.02	.02	.02
10.1600	.02	.02	.02	.02	.02
10.2600	.02	.02	.02	.03	.03
10.3600	.03	.03	.03	.03	.03
10.4600	.03	.03	.03	.03	.03
10.5600	.03	.03	.03	.03	.03
10.6600	.03	.03	.03	.04	.04
10.7600	.04	.04	.04	.04	.04
10.8600	.04	.04	.04	.04	.04
10.9600	.04	.04	.05	.05	.05
11.0600	.05	.05	.05	.05	.05
11.1600	.06	.06	.06	.06	.06
11.2600	.06	.07	.07	.07	.07
11.3600	.07	.07	.08	.08	.08
11.4600	.08	.08	.08	.09	.11

11.5600	.13	.16	.17	.19	.23
11.6600	.28	.33	.36	.39	.45
11.7600	.53	.60	.64	.70	.83
11.8600	1.01	1.15	1.25	1.29	1.25
11.9600	1.17	1.09	1.05	.99	.83
12.0600	.61	.44	.33	.27	.24
12.1600	.21	.20	.19	.18	.18
12.2600	.17	.16	.16	.16	.15
12.3600	.14	.14	.14	.13	.13
12.4600	.12	.11	.11	.11	.11
12.5600	.10	.10	.10	.09	.09
12.6600	.09	.09	.09	.09	.09
12.7600	.08	.08	.08	.08	.08
12.8600	.08	.08	.08	.08	.07
12.9600	.07	.07	.07	.07	.07
13.0600	.07	.07	.07	.07	.07
13.1600	.06	.06	.06	.06	.06
13.2600	.06	.06	.06	.06	.06
13.3600	.06	.06	.06	.06	.06
13.4600	.06	.05	.05	.05	.05
13.5600	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.04

Name.... OUT 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
13.6600	.05	.05	.05	.05	.05
13.7600	.05	.05	.05	.05	.05
13.8600	.05	.05	.05	.04	.04
13.9600	.04	.04	.04	.04	.04
14.0600	.04	.04	.04	.04	.04
14.1600	.04	.04	.04	.04	.04
14.2600	.04	.04	.04	.04	.04
14.3600	.04	.04	.04	.04	.04
14.4600	.04	.04	.04	.04	.04
14.5600	.04	.04	.04	.04	.04
14.6600	.04	.04	.04	.04	.04
14.7600	.04	.04	.04	.04	.04
14.8600	.04	.04	.04	.04	.03
14.9600	.03	.03	.03	.03	.03
15.0600	.03	.03	.03	.03	.03
15.1600	.03	.03	.03	.03	.03

15.2600	.03	.03	.03	.03	.03
15.3600	.03	.03	.03	.03	.03
15.4600	.03	.03	.03	.03	.03
15.5600	.03	.03	.03	.03	.03
15.6600	.03	.03	.03	.03	.03
15.7600	.03	.03	.03	.03	.03
15.8600	.03	.03	.03	.03	.03
15.9600	.03	.03	.03	.03	.03
16.0600	.03	.03	.03	.03	.03
16.1600	.03	.03	.03	.03	.03
16.2600	.03	.03	.03	.03	.03
16.3600	.03	.03	.03	.03	.03
16.4600	.02	.02	.02	.02	.02
16.5600	.02	.02	.02	.02	.02
16.6600	.02	.02	.02	.02	.02
16.7600	.02	.02	.02	.02	.02
16.8600	.02	.02	.02	.02	.02
16.9600	.02	.02	.02	.02	.02
17.0600	.02	.02	.02	.02	.02
17.1600	.02	.02	.02	.02	.02
17.2600	.02	.02	.02	.02	.02
17.3600	.02	.02	.02	.02	.02
17.4600	.02	.02	.02	.02	.02
17.5600	.02	.02	.02	.02	.02
17.6600	.02	.02	.02	.02	.02
17.7600	.02	.02	.02	.02	.02
17.8600	.02	.02	.02	.02	.02
17.9600	.02	.02	.02	.02	.02
18.0600	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.05

Name.... OUT 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
18.1600	.02	.02	.02	.02	.02
18.2600	.02	.02	.02	.02	.02
18.3600	.02	.02	.02	.02	.02
18.4600	.02	.02	.02	.02	.02
18.5600	.02	.02	.02	.02	.02
18.6600	.02	.02	.02	.02	.02
18.7600	.02	.02	.02	.02	.02
18.8600	.02	.02	.02	.02	.02

18.9600	.02	.02	.02	.02	.02
19.0600	.02	.02	.02	.02	.02
19.1600	.02	.02	.02	.02	.02
19.2600	.02	.02	.02	.02	.02
19.3600	.02	.02	.02	.02	.02
19.4600	.02	.02	.02	.02	.02
19.5600	.02	.02	.02	.02	.02
19.6600	.02	.02	.02	.02	.02
19.7600	.02	.02	.02	.02	.02
19.8600	.02	.02	.02	.02	.02
19.9600	.02	.02	.02	.02	.01
20.0600	.01	.01	.01	.01	.01
20.1600	.01	.01	.01	.01	.01
20.2600	.01	.01	.01	.01	.01
20.3600	.01	.01	.01	.01	.01
20.4600	.01	.01	.01	.01	.01
20.5600	.01	.01	.01	.01	.01
20.6600	.01	.01	.01	.01	.01
20.7600	.01	.01	.01	.01	.01
20.8600	.01	.01	.01	.01	.01
20.9600	.01	.01	.01	.01	.01
21.0600	.01	.01	.01	.01	.01
21.1600	.01	.01	.01	.01	.01
21.2600	.01	.01	.01	.01	.01
21.3600	.01	.01	.01	.01	.01
21.4600	.01	.01	.01	.01	.01
21.5600	.01	.01	.01	.01	.01
21.6600	.01	.01	.01	.01	.01
21.7600	.01	.01	.01	.01	.01
21.8600	.01	.01	.01	.01	.01
21.9600	.01	.01	.01	.01	.01
22.0600	.01	.01	.01	.01	.01
22.1600	.01	.01	.01	.01	.01
22.2600	.01	.01	.01	.01	.01
22.3600	.01	.01	.01	.01	.01
22.4600	.01	.01	.01	.01	.01
22.5600	.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.06

Name.... OUT 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time  
hrs

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

-----



22.6600	.01	.01	.01	.01	.01
22.7600	.01	.01	.01	.01	.01
22.8600	.01	.01	.01	.01	.01
22.9600	.01	.01	.01	.01	.01
23.0600	.01	.01	.01	.01	.01
23.1600	.01	.01	.01	.01	.01
23.2600	.01	.01	.01	.01	.01
23.3600	.01	.01	.01	.01	.01
23.4600	.01	.01	.01	.01	.01
23.5600	.01	.01	.01	.01	.01
23.6600	.01	.01	.01	.01	.01
23.7600	.01	.01	.01	.01	.01
23.8600	.01	.01	.01	.01	.01
23.9600	.01	.01	.01	.01	.01
24.0600	.01	.00	.00	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.07

Name.... OUT 10

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: OUT 10

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
ADDLINK 10       SUBAREA 10           SUBAREA 10    15
=====

```

INFLOWS TO: OUT 10

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
-----      -----      -----      -----      -----      -----
              SUBAREA 10    15           .130        11.9200       2.35
-----

```

TOTAL FLOW INTO: OUT 10

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
-----      -----      -----      -----      -----      -----
              OUT 10       15           .130        11.9200       2.35
-----

```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.08

Name.... OUT 10

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

TOTAL NODE INFLOW...

HYG file =

HYG ID = OUT 10

HYG Tag = 15

-----  
Peak Discharge = 2.35 cfs

Time to Peak = 11.9200 hrs

HYG Volume = .130 ac-ft  
-----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time |  
hrs | Time on left represents time for first value in each row.

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
4.0600	.00	.00	.00	.00	.00
4.1600	.00	.00	.00	.00	.00
4.2600	.00	.00	.00	.00	.00
4.3600	.00	.00	.00	.00	.00
4.4600	.00	.00	.00	.00	.00
4.5600	.00	.00	.00	.00	.00
4.6600	.00	.00	.00	.00	.00
4.7600	.00	.00	.00	.00	.00
4.8600	.00	.00	.00	.00	.00
4.9600	.00	.00	.00	.00	.00
5.0600	.00	.00	.01	.01	.01
5.1600	.01	.01	.01	.01	.01
5.2600	.01	.01	.01	.01	.01
5.3600	.01	.01	.01	.01	.01
5.4600	.01	.01	.01	.01	.01
5.5600	.01	.01	.01	.01	.01
5.6600	.01	.01	.01	.01	.01
5.7600	.01	.01	.01	.01	.01
5.8600	.01	.01	.01	.01	.01
5.9600	.01	.01	.01	.01	.01
6.0600	.01	.01	.01	.01	.01
6.1600	.01	.01	.01	.01	.01
6.2600	.01	.01	.01	.01	.01
6.3600	.01	.01	.01	.01	.01
6.4600	.01	.01	.01	.01	.01
6.5600	.01	.01	.01	.01	.01
6.6600	.01	.01	.01	.01	.01
6.7600	.01	.01	.01	.01	.01

6.8600		.01	.01	.01	.01	.01
6.9600		.01	.01	.01	.01	.01
7.0600		.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.09

Name.... OUT 10

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
Time on left represents time for first value in each row.					
7.1600	.02	.02	.02	.02	.02
7.2600	.02	.02	.02	.02	.02
7.3600	.02	.02	.02	.02	.02
7.4600	.02	.02	.02	.02	.02
7.5600	.02	.02	.02	.02	.02
7.6600	.02	.02	.02	.02	.02
7.7600	.02	.02	.02	.02	.02
7.8600	.02	.02	.02	.02	.02
7.9600	.02	.02	.02	.02	.02
8.0600	.02	.02	.02	.02	.02
8.1600	.02	.02	.02	.02	.02
8.2600	.02	.02	.02	.02	.02
8.3600	.02	.02	.02	.02	.02
8.4600	.03	.03	.03	.03	.03
8.5600	.03	.03	.03	.03	.03
8.6600	.03	.03	.03	.03	.03
8.7600	.03	.03	.03	.03	.03
8.8600	.03	.03	.03	.03	.03
8.9600	.03	.03	.03	.03	.03
9.0600	.03	.03	.03	.03	.04
9.1600	.04	.04	.04	.04	.04
9.2600	.04	.04	.04	.04	.04
9.3600	.04	.04	.04	.04	.04
9.4600	.04	.04	.04	.04	.04
9.5600	.04	.04	.04	.04	.04
9.6600	.04	.04	.04	.04	.04
9.7600	.04	.04	.04	.04	.04
9.8600	.04	.05	.05	.05	.05
9.9600	.05	.05	.05	.05	.05
10.0600	.05	.05	.05	.05	.05
10.1600	.05	.05	.06	.06	.06
10.2600	.06	.06	.06	.06	.06
10.3600	.06	.06	.06	.06	.06
10.4600	.07	.07	.07	.07	.07

10.5600	.07	.07	.07	.07	.07
10.6600	.08	.08	.08	.08	.08
10.7600	.08	.08	.09	.09	.09
10.8600	.09	.09	.09	.09	.09
10.9600	.10	.10	.10	.10	.10
11.0600	.11	.11	.11	.11	.12
11.1600	.12	.12	.13	.13	.13
11.2600	.14	.14	.14	.14	.15
11.3600	.15	.16	.16	.16	.16
11.4600	.17	.17	.18	.19	.23
11.5600	.28	.32	.35	.38	.47

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.10

Name.... OUT 10

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
11.6600	.57	.66	.72	.78	.89
11.7600	1.04	1.15	1.23	1.34	1.57
11.8600	1.88	2.13	2.29	2.35	2.27
11.9600	2.10	1.96	1.88	1.76	1.47
12.0600	1.08	.77	.58	.48	.42
12.1600	.37	.35	.33	.32	.31
12.2600	.30	.29	.28	.28	.27
12.3600	.25	.24	.24	.23	.22
12.4600	.21	.20	.19	.19	.18
12.5600	.18	.17	.17	.16	.16
12.6600	.16	.15	.15	.15	.15
12.7600	.15	.14	.14	.14	.14
12.8600	.14	.13	.13	.13	.13
12.9600	.13	.12	.12	.12	.12
13.0600	.12	.12	.12	.11	.11
13.1600	.11	.11	.11	.11	.11
13.2600	.11	.11	.10	.10	.10
13.3600	.10	.10	.10	.10	.10
13.4600	.10	.09	.09	.09	.09
13.5600	.09	.09	.09	.09	.09
13.6600	.09	.09	.09	.08	.08
13.7600	.08	.08	.08	.08	.08
13.8600	.08	.08	.08	.08	.08
13.9600	.08	.07	.07	.07	.07
14.0600	.07	.07	.07	.07	.07
14.1600	.07	.07	.07	.07	.07

14.2600	.07	.07	.07	.07	.07
14.3600	.07	.07	.07	.07	.07
14.4600	.07	.07	.07	.07	.07
14.5600	.06	.06	.06	.06	.06
14.6600	.06	.06	.06	.06	.06
14.7600	.06	.06	.06	.06	.06
14.8600	.06	.06	.06	.06	.06
14.9600	.06	.06	.06	.06	.06
15.0600	.06	.06	.06	.06	.06
15.1600	.06	.06	.06	.06	.06
15.2600	.06	.06	.05	.05	.05
15.3600	.05	.05	.05	.05	.05
15.4600	.05	.05	.05	.05	.05
15.5600	.05	.05	.05	.05	.05
15.6600	.05	.05	.05	.05	.05
15.7600	.05	.05	.05	.05	.05
15.8600	.05	.05	.05	.05	.05
15.9600	.05	.05	.05	.05	.05
16.0600	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.11

Name.... OUT 10

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
16.1600	.04	.04	.04	.04	.04
16.2600	.04	.04	.04	.04	.04
16.3600	.04	.04	.04	.04	.04
16.4600	.04	.04	.04	.04	.04
16.5600	.04	.04	.04	.04	.04
16.6600	.04	.04	.04	.04	.04
16.7600	.04	.04	.04	.04	.04
16.8600	.04	.04	.04	.04	.04
16.9600	.04	.04	.04	.04	.04
17.0600	.04	.04	.04	.04	.04
17.1600	.04	.04	.04	.04	.04
17.2600	.04	.04	.04	.04	.04
17.3600	.04	.04	.04	.04	.04
17.4600	.04	.04	.04	.04	.04
17.5600	.04	.04	.04	.04	.04
17.6600	.04	.04	.04	.04	.04
17.7600	.04	.04	.04	.04	.04
17.8600	.04	.04	.04	.04	.04

17.9600	.04	.04	.04	.04	.04
18.0600	.04	.03	.03	.03	.03
18.1600	.03	.03	.03	.03	.03
18.2600	.03	.03	.03	.03	.03
18.3600	.03	.03	.03	.03	.03
18.4600	.03	.03	.03	.03	.03
18.5600	.03	.03	.03	.03	.03
18.6600	.03	.03	.03	.03	.03
18.7600	.03	.03	.03	.03	.03
18.8600	.03	.03	.03	.03	.03
18.9600	.03	.03	.03	.03	.03
19.0600	.03	.03	.03	.03	.03
19.1600	.03	.03	.03	.03	.03
19.2600	.03	.03	.03	.03	.03
19.3600	.03	.03	.03	.03	.03
19.4600	.03	.03	.03	.03	.03
19.5600	.03	.03	.03	.03	.03
19.6600	.03	.03	.03	.03	.03
19.7600	.03	.03	.03	.03	.03
19.8600	.03	.03	.03	.03	.03
19.9600	.03	.03	.03	.03	.03
20.0600	.03	.03	.03	.03	.03
20.1600	.03	.03	.03	.03	.03
20.2600	.03	.03	.03	.03	.03
20.3600	.03	.03	.03	.02	.02
20.4600	.02	.02	.02	.02	.02
20.5600	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.12

Name.... OUT 10

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

---

Time hrs					
20.6600	.02	.02	.02	.02	.02
20.7600	.02	.02	.02	.02	.02
20.8600	.02	.02	.02	.02	.02
20.9600	.02	.02	.02	.02	.02
21.0600	.02	.02	.02	.02	.02
21.1600	.02	.02	.02	.02	.02
21.2600	.02	.02	.02	.02	.02
21.3600	.02	.02	.02	.02	.02
21.4600	.02	.02	.02	.02	.02
21.5600	.02	.02	.02	.02	.02

21.6600	.02	.02	.02	.02	.02
21.7600	.02	.02	.02	.02	.02
21.8600	.02	.02	.02	.02	.02
21.9600	.02	.02	.02	.02	.02
22.0600	.02	.02	.02	.02	.02
22.1600	.02	.02	.02	.02	.02
22.2600	.02	.02	.02	.02	.02
22.3600	.02	.02	.02	.02	.02
22.4600	.02	.02	.02	.02	.02
22.5600	.02	.02	.02	.02	.02
22.6600	.02	.02	.02	.02	.02
22.7600	.02	.02	.02	.02	.02
22.8600	.02	.02	.02	.02	.02
22.9600	.02	.02	.02	.02	.02
23.0600	.02	.02	.02	.02	.02
23.1600	.02	.02	.02	.02	.02
23.2600	.02	.02	.02	.02	.02
23.3600	.02	.02	.02	.02	.02
23.4600	.02	.02	.02	.02	.02
23.5600	.02	.02	.02	.02	.02
23.6600	.02	.02	.02	.02	.02
23.7600	.02	.02	.02	.02	.02
23.8600	.02	.02	.02	.02	.02
23.9600	.02	.02	.02	.02	.02
24.0600	.01	.01	.00	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.13

Name.... OUT 10

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: OUT 10

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
ADDLINK 10       SUBAREA 10       SUBAREA 10       25
=====

```

INFLOWS TO: OUT 10

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
ac-ft         hrs         cfs
-----

```

SUBAREA 10                    25                    .149                    11.9200                    2.66

TOTAL FLOW INTO: OUT 10

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
OUT 10	OUT 10	25	.149	11.9200	2.66

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.14

Name.... OUT 10

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = OUT 10  
 HYG Tag = 25

-----  
 Peak Discharge = 2.66 cfs  
 Time to Peak = 11.9200 hrs  
 HYG Volume = .149 ac-ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
3.7000	.00	.00	.00	.00	.00
3.8000	.00	.00	.00	.00	.00
3.9000	.00	.00	.00	.00	.00
4.0000	.00	.00	.00	.00	.00
4.1000	.00	.00	.00	.00	.00
4.2000	.00	.00	.00	.00	.00
4.3000	.00	.00	.00	.00	.00
4.4000	.00	.00	.00	.00	.00
4.5000	.00	.00	.00	.00	.00
4.6000	.00	.01	.01	.01	.01
4.7000	.01	.01	.01	.01	.01
4.8000	.01	.01	.01	.01	.01
4.9000	.01	.01	.01	.01	.01
5.0000	.01	.01	.01	.01	.01
5.1000	.01	.01	.01	.01	.01
5.2000	.01	.01	.01	.01	.01
5.3000	.01	.01	.01	.01	.01
5.4000	.01	.01	.01	.01	.01



5.5000	.01	.01	.01	.01	.01
5.6000	.01	.01	.01	.01	.01
5.7000	.01	.01	.01	.01	.01
5.8000	.01	.01	.01	.01	.01
5.9000	.01	.01	.01	.01	.01
6.0000	.01	.01	.01	.01	.01
6.1000	.01	.01	.01	.01	.01
6.2000	.01	.01	.01	.01	.01
6.3000	.01	.01	.01	.01	.01
6.4000	.01	.01	.01	.01	.01
6.5000	.02	.02	.02	.02	.02
6.6000	.02	.02	.02	.02	.02
6.7000	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.15

Name.... OUT 10

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

---

6.8000	.02	.02	.02	.02	.02
6.9000	.02	.02	.02	.02	.02
7.0000	.02	.02	.02	.02	.02
7.1000	.02	.02	.02	.02	.02
7.2000	.02	.02	.02	.02	.02
7.3000	.02	.02	.02	.02	.02
7.4000	.02	.02	.02	.02	.02
7.5000	.02	.02	.02	.02	.02
7.6000	.02	.02	.02	.02	.02
7.7000	.02	.02	.02	.02	.02
7.8000	.02	.02	.02	.02	.02
7.9000	.02	.02	.02	.02	.02
8.0000	.02	.02	.02	.02	.02
8.1000	.03	.03	.03	.03	.03
8.2000	.03	.03	.03	.03	.03
8.3000	.03	.03	.03	.03	.03
8.4000	.03	.03	.03	.03	.03
8.5000	.03	.03	.03	.03	.03
8.6000	.03	.03	.03	.03	.03
8.7000	.03	.04	.04	.04	.04
8.8000	.04	.04	.04	.04	.04
8.9000	.04	.04	.04	.04	.04
9.0000	.04	.04	.04	.04	.04
9.1000	.04	.04	.04	.04	.04

9.2000	.04	.04	.04	.04	.04
9.3000	.04	.04	.04	.04	.04
9.4000	.04	.04	.04	.04	.04
9.5000	.04	.04	.04	.05	.05
9.6000	.05	.05	.05	.05	.05
9.7000	.05	.05	.05	.05	.05
9.8000	.05	.05	.05	.05	.05
9.9000	.05	.05	.06	.06	.06
10.0000	.06	.06	.06	.06	.06
10.1000	.06	.06	.06	.06	.06
10.2000	.07	.07	.07	.07	.07
10.3000	.07	.07	.07	.07	.07
10.4000	.07	.08	.08	.08	.08
10.5000	.08	.08	.08	.08	.08
10.6000	.09	.09	.09	.09	.09
10.7000	.09	.09	.10	.10	.10
10.8000	.10	.10	.10	.10	.11
10.9000	.11	.11	.11	.11	.11
11.0000	.12	.12	.12	.12	.13
11.1000	.13	.13	.13	.14	.14
11.2000	.15	.15	.15	.16	.16

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.16

Name.... OUT 10

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
11.3000	.16	.17	.17	.18	.18
11.4000	.18	.19	.19	.20	.20
11.5000	.20	.22	.26	.32	.37
11.6000	.40	.44	.54	.66	.76
11.7000	.82	.89	1.02	1.19	1.32
11.8000	1.41	1.53	1.79	2.14	2.42
11.9000	2.60	2.66	2.56	2.38	2.22
12.0000	2.12	1.98	1.65	1.22	.87
12.1000	.66	.54	.47	.42	.39
12.2000	.37	.36	.35	.33	.32
12.3000	.32	.31	.30	.28	.27
12.4000	.27	.26	.25	.24	.23
12.5000	.22	.21	.21	.20	.19
12.6000	.19	.18	.18	.18	.17
12.7000	.17	.17	.17	.16	.16
12.8000	.16	.16	.16	.15	.15

12.9000	.15	.15	.15	.14	.14
13.0000	.14	.14	.14	.13	.13
13.1000	.13	.13	.13	.13	.12
13.2000	.12	.12	.12	.12	.12
13.3000	.12	.12	.12	.11	.11
13.4000	.11	.11	.11	.11	.11
13.5000	.11	.10	.10	.10	.10
13.6000	.10	.10	.10	.10	.10
13.7000	.10	.10	.09	.09	.09
13.8000	.09	.09	.09	.09	.09
13.9000	.09	.09	.09	.08	.08
14.0000	.08	.08	.08	.08	.08
14.1000	.08	.08	.08	.08	.08
14.2000	.08	.08	.08	.08	.08
14.3000	.08	.08	.08	.08	.08
14.4000	.08	.07	.07	.07	.07
14.5000	.07	.07	.07	.07	.07
14.6000	.07	.07	.07	.07	.07
14.7000	.07	.07	.07	.07	.07
14.8000	.07	.07	.07	.07	.07
14.9000	.07	.07	.07	.07	.07
15.0000	.07	.07	.07	.07	.06
15.1000	.06	.06	.06	.06	.06
15.2000	.06	.06	.06	.06	.06
15.3000	.06	.06	.06	.06	.06
15.4000	.06	.06	.06	.06	.06
15.5000	.06	.06	.06	.06	.06
15.6000	.06	.06	.06	.06	.06
15.7000	.06	.06	.06	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.17

Name.... OUT 10

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
15.8000	.05	.05	.05	.05	.05
15.9000	.05	.05	.05	.05	.05
16.0000	.05	.05	.05	.05	.05
16.1000	.05	.05	.05	.05	.05
16.2000	.05	.05	.05	.05	.05
16.3000	.05	.05	.05	.05	.05
16.4000	.05	.05	.05	.05	.05
16.5000	.05	.05	.05	.05	.05

16.6000	.05	.05	.05	.05	.05
16.7000	.05	.05	.05	.05	.05
16.8000	.05	.05	.05	.05	.05
16.9000	.05	.05	.05	.05	.05
17.0000	.04	.04	.04	.04	.04
17.1000	.04	.04	.04	.04	.04
17.2000	.04	.04	.04	.04	.04
17.3000	.04	.04	.04	.04	.04
17.4000	.04	.04	.04	.04	.04
17.5000	.04	.04	.04	.04	.04
17.6000	.04	.04	.04	.04	.04
17.7000	.04	.04	.04	.04	.04
17.8000	.04	.04	.04	.04	.04
17.9000	.04	.04	.04	.04	.04
18.0000	.04	.04	.04	.04	.04
18.1000	.04	.04	.04	.04	.04
18.2000	.04	.04	.04	.04	.04
18.3000	.04	.04	.04	.04	.04
18.4000	.04	.04	.04	.04	.04
18.5000	.04	.04	.04	.04	.04
18.6000	.04	.04	.04	.04	.04
18.7000	.04	.04	.04	.04	.04
18.8000	.04	.04	.04	.03	.03
18.9000	.03	.03	.03	.03	.03
19.0000	.03	.03	.03	.03	.03
19.1000	.03	.03	.03	.03	.03
19.2000	.03	.03	.03	.03	.03
19.3000	.03	.03	.03	.03	.03
19.4000	.03	.03	.03	.03	.03
19.5000	.03	.03	.03	.03	.03
19.6000	.03	.03	.03	.03	.03
19.7000	.03	.03	.03	.03	.03
19.8000	.03	.03	.03	.03	.03
19.9000	.03	.03	.03	.03	.03
20.0000	.03	.03	.03	.03	.03
20.1000	.03	.03	.03	.03	.03
20.2000	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 10

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time  
hrs

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

-----

20.3000	.03	.03	.03	.03	.03
20.4000	.03	.03	.03	.03	.03
20.5000	.03	.03	.03	.03	.03
20.6000	.03	.03	.03	.03	.03
20.7000	.03	.03	.03	.03	.03
20.8000	.03	.03	.03	.03	.03
20.9000	.03	.03	.03	.03	.03
21.0000	.03	.03	.03	.03	.03
21.1000	.03	.03	.03	.03	.03
21.2000	.03	.03	.03	.03	.03
21.3000	.03	.03	.03	.03	.03
21.4000	.03	.03	.03	.03	.03
21.5000	.03	.03	.03	.03	.03
21.6000	.03	.03	.03	.03	.03
21.7000	.03	.03	.03	.03	.03
21.8000	.03	.03	.03	.03	.03
21.9000	.03	.03	.03	.03	.03
22.0000	.03	.03	.03	.03	.03
22.1000	.03	.03	.03	.03	.03
22.2000	.03	.03	.03	.03	.03
22.3000	.03	.03	.03	.03	.03
22.4000	.03	.03	.03	.03	.03
22.5000	.03	.03	.03	.03	.03
22.6000	.03	.03	.03	.03	.03
22.7000	.03	.03	.03	.03	.03
22.8000	.03	.03	.03	.03	.03
22.9000	.03	.03	.03	.03	.03
23.0000	.03	.03	.03	.03	.03
23.1000	.03	.03	.03	.03	.03
23.2000	.03	.03	.02	.02	.02
23.3000	.02	.02	.02	.02	.02
23.4000	.02	.02	.02	.02	.02
23.5000	.02	.02	.02	.02	.02
23.6000	.02	.02	.02	.02	.02
23.7000	.02	.02	.02	.02	.02
23.8000	.02	.02	.02	.02	.02
23.9000	.02	.02	.02	.02	.02
24.0000	.02	.02	.02	.01	.01
24.1000	.00	.00	.00	.00	

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.19

Name.... OUT 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

SUMMARY FOR HYDROGRAPH ADDITION

at Node: OUT 10

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
ADDLINK 10       SUBAREA 10    SUBAREA 10    50
=====

```

INFLOWS TO: OUT 10

```

----- Volume      Peak Time      Peak Flow
HYG file  HYG ID        HYG tag        ac-ft         hrs           cfs
-----
          SUBAREA 10    50             .174          11.9200      3.08

```

TOTAL FLOW INTO: OUT 10

```

----- Volume      Peak Time      Peak Flow
HYG file  HYG ID        HYG tag        ac-ft         hrs           cfs
-----
          OUT 10        50             .174          11.9200      3.08

```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.20

Name.... OUT 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = OUT 10  
 HYG Tag = 50

```

-----
Peak Discharge =      3.08 cfs
Time to Peak   =     11.9200 hrs
HYG Volume     =      .174 ac-ft
-----

```

HYDROGRAPH ORDINATES (cfs)

```

Time |
hrs  |
-----|-----
3.2800 | .00 .00 .00 .00 .00
3.3800 | .00 .00 .00 .00 .00
3.4800 | .00 .00 .00 .00 .00
3.5800 | .00 .00 .00 .00 .00

```

3.6800	.00	.00	.00	.00	.00
3.7800	.00	.00	.00	.00	.00
3.8800	.00	.00	.00	.00	.00
3.9800	.00	.00	.00	.00	.00
4.0800	.00	.01	.01	.01	.01
4.1800	.01	.01	.01	.01	.01
4.2800	.01	.01	.01	.01	.01
4.3800	.01	.01	.01	.01	.01
4.4800	.01	.01	.01	.01	.01
4.5800	.01	.01	.01	.01	.01
4.6800	.01	.01	.01	.01	.01
4.7800	.01	.01	.01	.01	.01
4.8800	.01	.01	.01	.01	.01
4.9800	.01	.01	.01	.01	.01
5.0800	.01	.01	.01	.01	.01
5.1800	.01	.01	.01	.01	.01
5.2800	.01	.01	.01	.01	.01
5.3800	.01	.01	.01	.01	.01
5.4800	.01	.01	.01	.01	.01
5.5800	.01	.01	.01	.01	.01
5.6800	.01	.01	.01	.01	.02
5.7800	.02	.02	.02	.02	.02
5.8800	.02	.02	.02	.02	.02
5.9800	.02	.02	.02	.02	.02
6.0800	.02	.02	.02	.02	.02
6.1800	.02	.02	.02	.02	.02
6.2800	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.21

Name.... OUT 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
6.3800	.02	.02	.02	.02	.02
6.4800	.02	.02	.02	.02	.02
6.5800	.02	.02	.02	.02	.02
6.6800	.02	.02	.02	.02	.02
6.7800	.02	.02	.02	.02	.02
6.8800	.02	.02	.02	.02	.02
6.9800	.02	.02	.02	.02	.02
7.0800	.02	.02	.02	.02	.02
7.1800	.02	.02	.03	.03	.03
7.2800	.03	.03	.03	.03	.03

7.3800	.03	.03	.03	.03	.03
7.4800	.03	.03	.03	.03	.03
7.5800	.03	.03	.03	.03	.03
7.6800	.03	.03	.03	.03	.03
7.7800	.03	.03	.03	.03	.03
7.8800	.03	.03	.03	.03	.03
7.9800	.03	.03	.03	.03	.03
8.0800	.03	.03	.03	.03	.03
8.1800	.03	.03	.03	.03	.03
8.2800	.04	.04	.04	.04	.04
8.3800	.04	.04	.04	.04	.04
8.4800	.04	.04	.04	.04	.04
8.5800	.04	.04	.04	.04	.04
8.6800	.04	.04	.04	.04	.05
8.7800	.05	.05	.05	.05	.05
8.8800	.05	.05	.05	.05	.05
8.9800	.05	.05	.05	.05	.05
9.0800	.05	.05	.05	.05	.05
9.1800	.05	.05	.05	.05	.05
9.2800	.05	.05	.05	.05	.05
9.3800	.05	.05	.05	.05	.05
9.4800	.05	.05	.05	.06	.06
9.5800	.06	.06	.06	.06	.06
9.6800	.06	.06	.06	.06	.06
9.7800	.06	.06	.06	.06	.07
9.8800	.07	.07	.07	.07	.07
9.9800	.07	.07	.07	.07	.07
10.0800	.07	.07	.08	.08	.08
10.1800	.08	.08	.08	.08	.08
10.2800	.08	.08	.09	.09	.09
10.3800	.09	.09	.09	.09	.09
10.4800	.09	.10	.10	.10	.10
10.5800	.10	.10	.10	.11	.11
10.6800	.11	.11	.11	.11	.12
10.7800	.12	.12	.12	.12	.13

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.22

Name.... OUT 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
10.8800	.13	.13	.13	.13	.14
10.9800	.14	.14	.14	.14	.15



11.0800	.15	.15	.16	.16	.17
11.1800	.17	.17	.18	.18	.19
11.2800	.19	.20	.20	.20	.21
11.3800	.21	.22	.22	.23	.23
11.4800	.24	.24	.26	.31	.38
11.5800	.44	.47	.52	.63	.78
11.6800	.90	.97	1.05	1.20	1.39
11.7800	1.54	1.65	1.79	2.09	2.49
11.8800	2.82	3.02	3.08	2.97	2.75
11.9800	2.56	2.45	2.29	1.91	1.41
12.0800	1.00	.76	.62	.54	.49
12.1800	.45	.43	.42	.40	.38
12.2800	.37	.36	.36	.34	.33
12.3800	.32	.31	.30	.29	.27
12.4800	.26	.25	.25	.24	.23
12.5800	.22	.21	.21	.21	.20
12.6800	.20	.20	.20	.19	.19
12.7800	.19	.19	.18	.18	.18
12.8800	.17	.17	.17	.17	.16
12.9800	.16	.16	.16	.16	.15
13.0800	.15	.15	.15	.15	.14
13.1800	.14	.14	.14	.14	.14
13.2800	.14	.14	.13	.13	.13
13.3800	.13	.13	.13	.13	.12
13.4800	.12	.12	.12	.12	.12
13.5800	.12	.12	.11	.11	.11
13.6800	.11	.11	.11	.11	.11
13.7800	.11	.11	.10	.10	.10
13.8800	.10	.10	.10	.10	.10
13.9800	.10	.10	.09	.09	.09
14.0800	.09	.09	.09	.09	.09
14.1800	.09	.09	.09	.09	.09
14.2800	.09	.09	.09	.09	.09
14.3800	.09	.09	.09	.09	.09
14.4800	.08	.08	.08	.08	.08
14.5800	.08	.08	.08	.08	.08
14.6800	.08	.08	.08	.08	.08
14.7800	.08	.08	.08	.08	.08
14.8800	.08	.08	.08	.08	.08
14.9800	.08	.08	.08	.08	.07
15.0800	.07	.07	.07	.07	.07
15.1800	.07	.07	.07	.07	.07
15.2800	.07	.07	.07	.07	.07

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
15.3800	.07	.07	.07	.07	.07
15.4800	.07	.07	.07	.07	.07
15.5800	.07	.07	.07	.06	.06
15.6800	.06	.06	.06	.06	.06
15.7800	.06	.06	.06	.06	.06
15.8800	.06	.06	.06	.06	.06
15.9800	.06	.06	.06	.06	.06
16.0800	.06	.06	.06	.06	.06
16.1800	.06	.06	.06	.06	.06
16.2800	.06	.06	.06	.06	.06
16.3800	.06	.06	.06	.06	.06
16.4800	.05	.05	.05	.05	.05
16.5800	.05	.05	.05	.05	.05
16.6800	.05	.05	.05	.05	.05
16.7800	.05	.05	.05	.05	.05
16.8800	.05	.05	.05	.05	.05
16.9800	.05	.05	.05	.05	.05
17.0800	.05	.05	.05	.05	.05
17.1800	.05	.05	.05	.05	.05
17.2800	.05	.05	.05	.05	.05
17.3800	.05	.05	.05	.05	.05
17.4800	.05	.05	.05	.05	.05
17.5800	.05	.05	.05	.05	.05
17.6800	.05	.05	.05	.05	.05
17.7800	.05	.05	.05	.05	.05
17.8800	.05	.05	.05	.05	.05
17.9800	.05	.05	.05	.05	.05
18.0800	.04	.04	.04	.04	.04
18.1800	.04	.04	.04	.04	.04
18.2800	.04	.04	.04	.04	.04
18.3800	.04	.04	.04	.04	.04
18.4800	.04	.04	.04	.04	.04
18.5800	.04	.04	.04	.04	.04
18.6800	.04	.04	.04	.04	.04
18.7800	.04	.04	.04	.04	.04
18.8800	.04	.04	.04	.04	.04
18.9800	.04	.04	.04	.04	.04
19.0800	.04	.04	.04	.04	.04
19.1800	.04	.04	.04	.04	.04
19.2800	.04	.04	.04	.04	.04
19.3800	.04	.04	.04	.04	.04
19.4800	.04	.04	.04	.04	.04
19.5800	.04	.04	.04	.04	.04
19.6800	.03	.03	.03	.03	.03

19.7800 | .03 .03 .03 .03 .03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	Output Time increment = .0200 hrs				
19.8800	.03	.03	.03	.03	.03
19.9800	.03	.03	.03	.03	.03
20.0800	.03	.03	.03	.03	.03
20.1800	.03	.03	.03	.03	.03
20.2800	.03	.03	.03	.03	.03
20.3800	.03	.03	.03	.03	.03
20.4800	.03	.03	.03	.03	.03
20.5800	.03	.03	.03	.03	.03
20.6800	.03	.03	.03	.03	.03
20.7800	.03	.03	.03	.03	.03
20.8800	.03	.03	.03	.03	.03
20.9800	.03	.03	.03	.03	.03
21.0800	.03	.03	.03	.03	.03
21.1800	.03	.03	.03	.03	.03
21.2800	.03	.03	.03	.03	.03
21.3800	.03	.03	.03	.03	.03
21.4800	.03	.03	.03	.03	.03
21.5800	.03	.03	.03	.03	.03
21.6800	.03	.03	.03	.03	.03
21.7800	.03	.03	.03	.03	.03
21.8800	.03	.03	.03	.03	.03
21.9800	.03	.03	.03	.03	.03
22.0800	.03	.03	.03	.03	.03
22.1800	.03	.03	.03	.03	.03
22.2800	.03	.03	.03	.03	.03
22.3800	.03	.03	.03	.03	.03
22.4800	.03	.03	.03	.03	.03
22.5800	.03	.03	.03	.03	.03
22.6800	.03	.03	.03	.03	.03
22.7800	.03	.03	.03	.03	.03
22.8800	.03	.03	.03	.03	.03
22.9800	.03	.03	.03	.03	.03
23.0800	.03	.03	.03	.03	.03
23.1800	.03	.03	.03	.03	.03
23.2800	.03	.03	.03	.03	.03
23.3800	.03	.03	.03	.03	.03

23.4800		.03	.03	.03	.03	.03
23.5800		.03	.03	.03	.03	.03
23.6800		.03	.03	.03	.03	.03
23.7800		.03	.03	.03	.03	.03
23.8800		.03	.03	.03	.03	.03
23.9800		.03	.03	.03	.02	.01
24.0800		.01	.00	.00	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.25

Name.... OUT 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: OUT 10

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
ADDLINK 10       SUBAREA 10          SUBAREA 10    100
=====

```

INFLOWS TO: OUT 10

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              ac-ft       hrs          cfs
-----
              SUBAREA 10    100          .201        11.9200       3.53

```

TOTAL FLOW INTO: OUT 10

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
              ac-ft       hrs          cfs
-----
              OUT 10        100          .201        11.9200       3.53

```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.26

Name.... OUT 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = OUT 10  
 HYG Tag = 100

-----  
 Peak Discharge = 3.53 cfs  
 Time to Peak = 11.9200 hrs  
 HYG Volume = .201 ac-ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
2.9400	.00	.00	.00	.00	.00
3.0400	.00	.00	.00	.00	.00
3.1400	.00	.00	.00	.00	.00
3.2400	.00	.00	.00	.00	.00
3.3400	.00	.00	.00	.00	.00
3.4400	.00	.00	.00	.00	.00
3.5400	.00	.00	.00	.00	.01
3.6400	.01	.01	.01	.01	.01
3.7400	.01	.01	.01	.01	.01
3.8400	.01	.01	.01	.01	.01
3.9400	.01	.01	.01	.01	.01
4.0400	.01	.01	.01	.01	.01
4.1400	.01	.01	.01	.01	.01
4.2400	.01	.01	.01	.01	.01
4.3400	.01	.01	.01	.01	.01
4.4400	.01	.01	.01	.01	.01
4.5400	.01	.01	.01	.01	.01
4.6400	.01	.01	.01	.01	.01
4.7400	.01	.01	.01	.01	.01
4.8400	.01	.01	.01	.01	.01
4.9400	.01	.01	.01	.01	.01
5.0400	.01	.01	.01	.01	.02
5.1400	.02	.02	.02	.02	.02
5.2400	.02	.02	.02	.02	.02
5.3400	.02	.02	.02	.02	.02
5.4400	.02	.02	.02	.02	.02
5.5400	.02	.02	.02	.02	.02
5.6400	.02	.02	.02	.02	.02
5.7400	.02	.02	.02	.02	.02
5.8400	.02	.02	.02	.02	.02
5.9400	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Name.... OUT 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	Time on left represents time for first value in each row.				
6.0400	.02	.02	.02	.02	.02
6.1400	.02	.02	.02	.02	.02
6.2400	.02	.02	.02	.02	.02
6.3400	.02	.02	.02	.02	.03
6.4400	.03	.03	.03	.03	.03
6.5400	.03	.03	.03	.03	.03
6.6400	.03	.03	.03	.03	.03
6.7400	.03	.03	.03	.03	.03
6.8400	.03	.03	.03	.03	.03
6.9400	.03	.03	.03	.03	.03
7.0400	.03	.03	.03	.03	.03
7.1400	.03	.03	.03	.03	.03
7.2400	.03	.03	.03	.03	.03
7.3400	.03	.03	.03	.03	.03
7.4400	.03	.03	.03	.03	.03
7.5400	.03	.03	.03	.03	.03
7.6400	.03	.04	.04	.04	.04
7.7400	.04	.04	.04	.04	.04
7.8400	.04	.04	.04	.04	.04
7.9400	.04	.04	.04	.04	.04
8.0400	.04	.04	.04	.04	.04
8.1400	.04	.04	.04	.04	.04
8.2400	.04	.04	.04	.04	.04
8.3400	.04	.05	.05	.05	.05
8.4400	.05	.05	.05	.05	.05
8.5400	.05	.05	.05	.05	.05
8.6400	.05	.05	.05	.05	.05
8.7400	.05	.05	.06	.06	.06
8.8400	.06	.06	.06	.06	.06
8.9400	.06	.06	.06	.06	.06
9.0400	.06	.06	.06	.06	.06
9.1400	.06	.06	.06	.06	.06
9.2400	.06	.06	.06	.06	.06
9.3400	.06	.06	.06	.07	.07
9.4400	.07	.07	.07	.07	.07
9.5400	.07	.07	.07	.07	.07
9.6400	.07	.07	.07	.07	.07
9.7400	.07	.07	.07	.08	.08
9.8400	.08	.08	.08	.08	.08
9.9400	.08	.08	.08	.08	.08
10.0400	.09	.09	.09	.09	.09
10.1400	.09	.09	.09	.09	.10

10.2400	.10	.10	.10	.10	.10
10.3400	.10	.10	.11	.11	.11
10.4400	.11	.11	.11	.11	.11

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
10.5400	.12	.12	.12	.12	.12
10.6400	.12	.13	.13	.13	.13
10.7400	.14	.14	.14	.14	.14
10.8400	.15	.15	.15	.15	.15
10.9400	.16	.16	.16	.16	.17
11.0400	.17	.17	.18	.18	.18
11.1400	.19	.19	.20	.20	.21
11.2400	.21	.22	.23	.23	.23
11.3400	.24	.25	.25	.25	.26
11.4400	.26	.27	.28	.28	.30
11.5400	.36	.44	.51	.55	.61
11.6400	.74	.90	1.04	1.13	1.22
11.7400	1.39	1.61	1.78	1.90	2.06
11.8400	2.40	2.86	3.24	3.46	3.53
11.9400	3.40	3.15	2.93	2.80	2.61
12.0400	2.18	1.61	1.14	.87	.71
12.1400	.62	.55	.51	.49	.48
12.2400	.46	.44	.42	.41	.41
12.3400	.39	.37	.36	.35	.34
12.4400	.33	.31	.30	.29	.28
12.5400	.27	.26	.25	.24	.24
12.6400	.24	.23	.23	.23	.22
12.7400	.22	.22	.21	.21	.21
12.8400	.21	.20	.20	.20	.19
12.9400	.19	.19	.18	.18	.18
13.0400	.18	.17	.17	.17	.17
13.1400	.17	.16	.16	.16	.16
13.2400	.16	.16	.15	.15	.15
13.3400	.15	.15	.15	.15	.14
13.4400	.14	.14	.14	.14	.14
13.5400	.14	.13	.13	.13	.13
13.6400	.13	.13	.13	.13	.12
13.7400	.12	.12	.12	.12	.12
13.8400	.12	.12	.11	.11	.11

13.9400	.11	.11	.11	.11	.11
14.0400	.11	.11	.10	.10	.10
14.1400	.10	.10	.10	.10	.10
14.2400	.10	.10	.10	.10	.10
14.3400	.10	.10	.10	.10	.10
14.4400	.10	.10	.10	.10	.10
14.5400	.10	.09	.09	.09	.09
14.6400	.09	.09	.09	.09	.09
14.7400	.09	.09	.09	.09	.09
14.8400	.09	.09	.09	.09	.09
14.9400	.09	.09	.09	.09	.09

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
15.0400	.09	.09	.08	.08	.08
15.1400	.08	.08	.08	.08	.08
15.2400	.08	.08	.08	.08	.08
15.3400	.08	.08	.08	.08	.08
15.4400	.08	.08	.08	.08	.08
15.5400	.08	.08	.07	.07	.07
15.6400	.07	.07	.07	.07	.07
15.7400	.07	.07	.07	.07	.07
15.8400	.07	.07	.07	.07	.07
15.9400	.07	.07	.07	.07	.07
16.0400	.07	.07	.07	.07	.07
16.1400	.06	.06	.06	.06	.06
16.2400	.06	.06	.06	.06	.06
16.3400	.06	.06	.06	.06	.06
16.4400	.06	.06	.06	.06	.06
16.5400	.06	.06	.06	.06	.06
16.6400	.06	.06	.06	.06	.06
16.7400	.06	.06	.06	.06	.06
16.8400	.06	.06	.06	.06	.06
16.9400	.06	.06	.06	.06	.06
17.0400	.06	.06	.06	.06	.06
17.1400	.06	.06	.06	.06	.06
17.2400	.06	.06	.06	.06	.06
17.3400	.06	.06	.06	.06	.06
17.4400	.06	.06	.06	.06	.06
17.5400	.05	.05	.05	.05	.05



17.6400	.05	.05	.05	.05	.05
17.7400	.05	.05	.05	.05	.05
17.8400	.05	.05	.05	.05	.05
17.9400	.05	.05	.05	.05	.05
18.0400	.05	.05	.05	.05	.05
18.1400	.05	.05	.05	.05	.05
18.2400	.05	.05	.05	.05	.05
18.3400	.05	.05	.05	.05	.05
18.4400	.05	.05	.05	.05	.05
18.5400	.05	.05	.05	.05	.05
18.6400	.05	.05	.05	.05	.05
18.7400	.05	.05	.05	.05	.05
18.8400	.05	.05	.05	.05	.05
18.9400	.05	.04	.04	.04	.04
19.0400	.04	.04	.04	.04	.04
19.1400	.04	.04	.04	.04	.04
19.2400	.04	.04	.04	.04	.04
19.3400	.04	.04	.04	.04	.04
19.4400	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.30

Name.... OUT 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
19.5400	.04	.04	.04	.04	.04
19.6400	.04	.04	.04	.04	.04
19.7400	.04	.04	.04	.04	.04
19.8400	.04	.04	.04	.04	.04
19.9400	.04	.04	.04	.04	.04
20.0400	.04	.04	.04	.04	.04
20.1400	.04	.04	.04	.04	.04
20.2400	.04	.04	.04	.04	.04
20.3400	.04	.04	.04	.04	.04
20.4400	.04	.04	.04	.04	.04
20.5400	.04	.04	.04	.04	.04
20.6400	.04	.04	.04	.04	.04
20.7400	.04	.04	.04	.04	.04
20.8400	.04	.04	.04	.04	.04
20.9400	.04	.04	.04	.04	.04
21.0400	.04	.04	.04	.04	.04
21.1400	.04	.04	.04	.04	.04
21.2400	.04	.04	.04	.04	.04

21.3400	.04	.04	.04	.04	.04
21.4400	.04	.04	.04	.04	.04
21.5400	.03	.03	.03	.03	.03
21.6400	.03	.03	.03	.03	.03
21.7400	.03	.03	.03	.03	.03
21.8400	.03	.03	.03	.03	.03
21.9400	.03	.03	.03	.03	.03
22.0400	.03	.03	.03	.03	.03
22.1400	.03	.03	.03	.03	.03
22.2400	.03	.03	.03	.03	.03
22.3400	.03	.03	.03	.03	.03
22.4400	.03	.03	.03	.03	.03
22.5400	.03	.03	.03	.03	.03
22.6400	.03	.03	.03	.03	.03
22.7400	.03	.03	.03	.03	.03
22.8400	.03	.03	.03	.03	.03
22.9400	.03	.03	.03	.03	.03
23.0400	.03	.03	.03	.03	.03
23.1400	.03	.03	.03	.03	.03
23.2400	.03	.03	.03	.03	.03
23.3400	.03	.03	.03	.03	.03
23.4400	.03	.03	.03	.03	.03
23.5400	.03	.03	.03	.03	.03
23.6400	.03	.03	.03	.03	.03
23.7400	.03	.03	.03	.03	.03
23.8400	.03	.03	.03	.03	.03
23.9400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.31

Name.... OUT 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
24.0400	.02	.02	.01	.00	.00
24.1400	.00	.00			

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.32

Name.... OUT 20

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: OUT 20

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
ROUTE 10         POND 10          IN            ROUTE 10      2
=====

```

INFLOWS TO: OUT 20

```

-----
HYG file      HYG ID        HYG tag      Volume      Peak Time    Peak Flow
ac-ft        hrs           cfs
-----
                ROUTE 10      2            .094        12.0200     1.17

```

TOTAL FLOW INTO: OUT 20

```

-----
HYG file      HYG ID        HYG tag      Volume      Peak Time    Peak Flow
ac-ft        hrs           cfs
-----
                OUT 20        2            .094        12.0200     1.17

```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.33

Name.... OUT 20

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

TOTAL NODE INFLOW...

```

HYG file =
HYG ID   = OUT 20
HYG Tag  = 2

```

```

-----
Peak Discharge = 1.17 cfs
Time to Peak   = 12.0200 hrs
HYG Volume     = .094 ac-ft
-----

```

HYDROGRAPH ORDINATES (cfs)

```

Time |
hrs  |   Output Time increment = .0200 hrs
-----|-----
3.8800 | .00 .00 .01 .01 .01

```

Time on left represents time for first value in each row.

3.9800	.01	.01	.01	.01	.01
4.0800	.01	.01	.01	.01	.01
4.1800	.01	.01	.01	.01	.01
4.2800	.01	.01	.01	.01	.01
4.3800	.01	.01	.01	.01	.01
4.4800	.01	.01	.01	.01	.01
4.5800	.01	.01	.01	.01	.01
4.6800	.01	.01	.01	.01	.01
4.7800	.01	.01	.01	.01	.01
4.8800	.01	.01	.01	.01	.01
4.9800	.01	.01	.01	.01	.01
5.0800	.01	.01	.01	.01	.01
5.1800	.01	.01	.01	.01	.01
5.2800	.01	.01	.01	.01	.01
5.3800	.01	.01	.01	.01	.01
5.4800	.01	.01	.01	.01	.02
5.5800	.02	.02	.02	.02	.02
5.6800	.02	.02	.02	.02	.02
5.7800	.02	.02	.02	.02	.02
5.8800	.02	.02	.02	.02	.02
5.9800	.02	.02	.02	.02	.02
6.0800	.02	.02	.02	.02	.02
6.1800	.02	.02	.02	.02	.02
6.2800	.02	.02	.02	.02	.02
6.3800	.02	.02	.02	.02	.02
6.4800	.02	.02	.02	.02	.02
6.5800	.02	.02	.02	.02	.02
6.6800	.02	.02	.02	.02	.02
6.7800	.02	.02	.02	.02	.02
6.8800	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time					
hrs					
6.9800	.02	.02	.02	.02	.02
7.0800	.02	.02	.02	.02	.02
7.1800	.02	.02	.02	.02	.02
7.2800	.02	.02	.02	.02	.02
7.3800	.02	.02	.02	.02	.02
7.4800	.02	.02	.02	.02	.02
7.5800	.02	.02	.02	.02	.02

7.6800	.02	.02	.02	.02	.02
7.7800	.02	.02	.02	.02	.02
7.8800	.02	.02	.02	.02	.02
7.9800	.02	.02	.02	.02	.02
8.0800	.02	.02	.02	.02	.02
8.1800	.02	.02	.02	.02	.03
8.2800	.03	.03	.03	.03	.03
8.3800	.03	.03	.03	.03	.03
8.4800	.03	.03	.03	.03	.03
8.5800	.03	.03	.03	.03	.03
8.6800	.03	.03	.03	.03	.03
8.7800	.03	.03	.03	.03	.03
8.8800	.03	.03	.03	.03	.03
8.9800	.03	.03	.03	.03	.03
9.0800	.03	.04	.04	.04	.04
9.1800	.04	.04	.04	.04	.04
9.2800	.04	.04	.04	.04	.04
9.3800	.04	.04	.04	.04	.04
9.4800	.04	.04	.04	.04	.04
9.5800	.04	.04	.04	.04	.04
9.6800	.04	.04	.04	.04	.04
9.7800	.04	.04	.04	.04	.04
9.8800	.04	.04	.04	.04	.04
9.9800	.04	.04	.04	.04	.04
10.0800	.05	.05	.05	.05	.05
10.1800	.05	.05	.05	.05	.05
10.2800	.05	.05	.05	.05	.05
10.3800	.05	.05	.05	.06	.06
10.4800	.06	.06	.06	.06	.06
10.5800	.06	.06	.06	.06	.06
10.6800	.06	.06	.07	.07	.07
10.7800	.07	.07	.07	.07	.07
10.8800	.07	.07	.08	.08	.08
10.9800	.08	.08	.08	.08	.08
11.0800	.08	.09	.09	.09	.09
11.1800	.09	.10	.10	.10	.10
11.2800	.10	.11	.11	.11	.11
11.3800	.12	.12	.12	.12	.12

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time | Output Time increment = .0200 hrs  
hrs | Time on left represents time for first value in each row.

11.4800	.13	.13	.13	.14	.16
11.5800	.18	.20	.23	.25	.30
11.6800	.35	.40	.44	.47	.52
11.7800	.58	.63	.68	.74	.81
11.8800	.88	.96	1.03	1.09	1.13
11.9800	1.15	1.16	1.17	1.16	1.13
12.0800	1.07	1.00	.93	.85	.76
12.1800	.68	.60	.52	.45	.39
12.2800	.33	.28	.25	.23	.21
12.3800	.20	.18	.17	.17	.16
12.4800	.15	.14	.14	.13	.13
12.5800	.12	.12	.12	.11	.11
12.6800	.11	.10	.10	.10	.10
12.7800	.10	.10	.10	.09	.09
12.8800	.09	.09	.09	.09	.09
12.9800	.08	.08	.08	.08	.08
13.0800	.08	.08	.08	.08	.07
13.1800	.07	.07	.07	.07	.07
13.2800	.07	.07	.07	.07	.07
13.3800	.07	.07	.07	.06	.06
13.4800	.06	.06	.06	.06	.06
13.5800	.06	.06	.06	.06	.06
13.6800	.06	.06	.06	.06	.06
13.7800	.05	.05	.05	.05	.05
13.8800	.05	.05	.05	.05	.05
13.9800	.05	.05	.05	.05	.05
14.0800	.05	.05	.05	.05	.05
14.1800	.05	.05	.05	.05	.04
14.2800	.04	.04	.04	.04	.04
14.3800	.04	.04	.04	.04	.04
14.4800	.04	.04	.04	.04	.04
14.5800	.04	.04	.04	.04	.04
14.6800	.04	.04	.04	.04	.04
14.7800	.04	.04	.04	.04	.04
14.8800	.04	.04	.04	.04	.04
14.9800	.04	.04	.04	.04	.04
15.0800	.04	.04	.04	.04	.04
15.1800	.04	.04	.04	.04	.04
15.2800	.04	.04	.04	.04	.04
15.3800	.04	.03	.03	.03	.03
15.4800	.03	.03	.03	.03	.03
15.5800	.03	.03	.03	.03	.03
15.6800	.03	.03	.03	.03	.03
15.7800	.03	.03	.03	.03	.03
15.8800	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary  
Name.... OUT 20  
File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
Storm... TypeII 24hr Tag: 2

Page 9.36  
Event: 2 yr

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

---

Time hrs					
15.9800	.03	.03	.03	.03	.03
16.0800	.03	.03	.03	.03	.03
16.1800	.03	.03	.03	.03	.03
16.2800	.03	.03	.03	.03	.03
16.3800	.03	.03	.03	.03	.03
16.4800	.03	.03	.03	.03	.03
16.5800	.03	.03	.03	.03	.03
16.6800	.03	.03	.03	.03	.03
16.7800	.03	.03	.03	.03	.03
16.8800	.03	.03	.03	.03	.03
16.9800	.03	.03	.03	.03	.03
17.0800	.03	.03	.03	.03	.03
17.1800	.03	.03	.03	.03	.03
17.2800	.03	.02	.02	.02	.02
17.3800	.02	.02	.02	.02	.02
17.4800	.02	.02	.02	.02	.02
17.5800	.02	.02	.02	.02	.02
17.6800	.02	.02	.02	.02	.02
17.7800	.02	.02	.02	.02	.02
17.8800	.02	.02	.02	.02	.02
17.9800	.02	.02	.02	.02	.02
18.0800	.02	.02	.02	.02	.02
18.1800	.02	.02	.02	.02	.02
18.2800	.02	.02	.02	.02	.02
18.3800	.02	.02	.02	.02	.02
18.4800	.02	.02	.02	.02	.02
18.5800	.02	.02	.02	.02	.02
18.6800	.02	.02	.02	.02	.02
18.7800	.02	.02	.02	.02	.02
18.8800	.02	.02	.02	.02	.02
18.9800	.02	.02	.02	.02	.02
19.0800	.02	.02	.02	.02	.02
19.1800	.02	.02	.02	.02	.02
19.2800	.02	.02	.02	.02	.02
19.3800	.02	.02	.02	.02	.02
19.4800	.02	.02	.02	.02	.02
19.5800	.02	.02	.02	.02	.02
19.6800	.02	.02	.02	.02	.02
19.7800	.02	.02	.02	.02	.02
19.8800	.02	.02	.02	.02	.02
19.9800	.02	.02	.02	.02	.02

20.0800	.02	.02	.02	.02	.02
20.1800	.02	.02	.02	.02	.02
20.2800	.02	.02	.02	.02	.02
20.3800	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.37

Name.... OUT 20

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
20.4800	.02	.02	.02	.02	.02
20.5800	.02	.02	.02	.02	.02
20.6800	.02	.02	.02	.02	.02
20.7800	.02	.02	.02	.02	.02
20.8800	.02	.02	.02	.02	.02
20.9800	.02	.02	.02	.02	.02
21.0800	.02	.02	.02	.02	.02
21.1800	.02	.02	.02	.02	.02
21.2800	.02	.02	.02	.02	.02
21.3800	.02	.02	.02	.02	.02
21.4800	.02	.02	.02	.02	.02
21.5800	.02	.02	.02	.02	.02
21.6800	.02	.02	.02	.02	.02
21.7800	.02	.02	.02	.02	.02
21.8800	.02	.02	.02	.02	.02
21.9800	.02	.02	.01	.01	.01
22.0800	.01	.01	.01	.01	.01
22.1800	.01	.01	.01	.01	.01
22.2800	.01	.01	.01	.01	.01
22.3800	.01	.01	.01	.01	.01
22.4800	.01	.01	.01	.01	.01
22.5800	.01	.01	.01	.01	.01
22.6800	.01	.01	.01	.01	.01
22.7800	.01	.01	.01	.01	.01
22.8800	.01	.01	.01	.01	.01
22.9800	.01	.01	.01	.01	.01
23.0800	.01	.01	.01	.01	.01
23.1800	.01	.01	.01	.01	.01
23.2800	.01	.01	.01	.01	.01
23.3800	.01	.01	.01	.01	.01
23.4800	.01	.01	.01	.01	.01
23.5800	.01	.01	.01	.01	.01
23.6800	.01	.01	.01	.01	.01



23.7800	.01	.01	.01	.01	.01
23.8800	.01	.01	.01	.01	.01
23.9800	.01	.01	.01	.01	.01
24.0800	.01	.01	.01	.00	.00
24.1800	.00				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.38

Name.... OUT 20

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

SUMMARY FOR HYDROGRAPH ADDITION

at Node: OUT 20

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ROUTE 10	POND 10	IN	ROUTE 10	15

INFLOWS TO: OUT 20

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
ROUTE 10		15	.159	11.9200	2.67

TOTAL FLOW INTO: OUT 20

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
OUT 20		15	.159	11.9200	2.67

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.39

Name.... OUT 20

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

TOTAL NODE INFLOW...

HYG file =

HYG ID = OUT 20  
 HYG Tag = 15

-----  
 Peak Discharge = 2.67 cfs  
 Time to Peak = 11.9200 hrs  
 HYG Volume = .159 ac-ft  
 -----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
2.5400	.00	.00	.01	.01	.01
2.6400	.01	.01	.01	.01	.01
2.7400	.01	.01	.01	.01	.01
2.8400	.02	.02	.02	.02	.02
2.9400	.02	.02	.02	.02	.02
3.0400	.02	.02	.02	.02	.02
3.1400	.02	.02	.02	.02	.02
3.2400	.02	.02	.02	.02	.02
3.3400	.02	.02	.02	.02	.02
3.4400	.02	.02	.02	.02	.02
3.5400	.02	.02	.02	.02	.02
3.6400	.02	.02	.02	.02	.02
3.7400	.02	.02	.02	.02	.02
3.8400	.02	.02	.02	.02	.02
3.9400	.02	.02	.02	.02	.02
4.0400	.02	.02	.02	.02	.02
4.1400	.02	.02	.02	.02	.02
4.2400	.02	.02	.02	.02	.02
4.3400	.02	.02	.02	.02	.02
4.4400	.02	.02	.02	.02	.02
4.5400	.02	.02	.02	.02	.02
4.6400	.02	.02	.02	.02	.02
4.7400	.02	.02	.02	.02	.02
4.8400	.03	.03	.03	.03	.03
4.9400	.03	.03	.03	.03	.03
5.0400	.03	.03	.03	.03	.03
5.1400	.03	.03	.03	.03	.03
5.2400	.03	.03	.03	.03	.03
5.3400	.03	.03	.03	.03	.03
5.4400	.03	.03	.03	.03	.03
5.5400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
5.6400	.03	.03	.03	.03	.03
5.7400	.03	.03	.03	.03	.03
5.8400	.03	.03	.03	.03	.03
5.9400	.03	.03	.03	.03	.03
6.0400	.03	.03	.03	.03	.03
6.1400	.03	.03	.03	.03	.03
6.2400	.03	.03	.03	.03	.03
6.3400	.03	.03	.03	.03	.03
6.4400	.03	.03	.03	.03	.03
6.5400	.03	.03	.03	.03	.03
6.6400	.03	.03	.03	.03	.03
6.7400	.03	.03	.04	.04	.04
6.8400	.04	.04	.04	.04	.04
6.9400	.04	.04	.04	.04	.04
7.0400	.04	.04	.04	.04	.04
7.1400	.04	.04	.04	.04	.04
7.2400	.04	.04	.04	.04	.04
7.3400	.04	.04	.04	.04	.04
7.4400	.04	.04	.04	.04	.04
7.5400	.04	.04	.04	.04	.04
7.6400	.04	.04	.04	.04	.04
7.7400	.04	.04	.04	.04	.04
7.8400	.04	.04	.04	.04	.04
7.9400	.04	.04	.04	.04	.04
8.0400	.04	.04	.04	.04	.04
8.1400	.04	.04	.04	.04	.04
8.2400	.04	.04	.04	.05	.05
8.3400	.05	.05	.05	.05	.05
8.4400	.05	.05	.05	.05	.05
8.5400	.05	.05	.05	.05	.05
8.6400	.05	.05	.05	.05	.05
8.7400	.05	.05	.05	.06	.06
8.8400	.06	.06	.06	.06	.06
8.9400	.06	.06	.06	.06	.06
9.0400	.06	.06	.06	.06	.06
9.1400	.06	.06	.06	.06	.06
9.2400	.06	.06	.06	.06	.06
9.3400	.06	.06	.06	.06	.06
9.4400	.06	.06	.06	.06	.06
9.5400	.06	.06	.06	.06	.06
9.6400	.06	.06	.06	.06	.07
9.7400	.07	.07	.07	.07	.07
9.8400	.07	.07	.07	.07	.07
9.9400	.07	.07	.07	.07	.07

10.0400 | .08 .08 .08 .08 .08

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
10.1400	.08	.08	.08	.08	.08
10.2400	.08	.08	.09	.09	.09
10.3400	.09	.09	.09	.09	.09
10.4400	.09	.09	.10	.10	.10
10.5400	.10	.10	.10	.10	.10
10.6400	.10	.11	.11	.11	.11
10.7400	.11	.11	.12	.12	.12
10.8400	.12	.12	.12	.12	.13
10.9400	.13	.13	.13	.13	.13
11.0400	.14	.14	.14	.14	.15
11.1400	.15	.15	.16	.16	.16
11.2400	.17	.17	.17	.18	.18
11.3400	.18	.19	.19	.20	.20
11.4400	.20	.21	.21	.22	.22
11.5400	.24	.26	.30	.34	.37
11.6400	.42	.47	.53	.60	.65
11.7400	.72	.78	.86	.92	.99
11.8400	1.07	1.16	1.26	2.10	2.67
11.9400	2.54	2.38	2.20	2.07	1.95
12.0400	1.71	1.32	1.28	1.24	1.17
12.1400	1.10	1.03	.96	.89	.81
12.2400	.74	.67	.61	.55	.49
12.3400	.45	.41	.37	.33	.31
12.4400	.29	.27	.25	.24	.23
12.5400	.22	.21	.20	.19	.19
12.6400	.18	.18	.17	.17	.17
12.7400	.17	.16	.16	.16	.16
12.8400	.15	.15	.15	.15	.14
12.9400	.14	.14	.14	.14	.13
13.0400	.13	.13	.13	.13	.13
13.1400	.12	.12	.12	.12	.12
13.2400	.12	.12	.11	.11	.11
13.3400	.11	.11	.11	.11	.11
13.4400	.11	.10	.10	.10	.10
13.5400	.10	.10	.10	.10	.10
13.6400	.09	.09	.09	.09	.09

13.7400	.09	.09	.09	.09	.09
13.8400	.09	.09	.08	.08	.08
13.9400	.08	.08	.08	.08	.08
14.0400	.08	.08	.08	.08	.08
14.1400	.08	.07	.07	.07	.07
14.2400	.07	.07	.07	.07	.07
14.3400	.07	.07	.07	.07	.07
14.4400	.07	.07	.07	.07	.07
14.5400	.07	.07	.07	.07	.07

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
14.6400	.07	.07	.07	.07	.07
14.7400	.07	.07	.07	.07	.06
14.8400	.06	.06	.06	.06	.06
14.9400	.06	.06	.06	.06	.06
15.0400	.06	.06	.06	.06	.06
15.1400	.06	.06	.06	.06	.06
15.2400	.06	.06	.06	.06	.06
15.3400	.06	.06	.06	.06	.06
15.4400	.06	.06	.06	.06	.06
15.5400	.05	.05	.05	.05	.05
15.6400	.05	.05	.05	.05	.05
15.7400	.05	.05	.05	.05	.05
15.8400	.05	.05	.05	.05	.05
15.9400	.05	.05	.05	.05	.05
16.0400	.05	.05	.05	.05	.05
16.1400	.05	.05	.05	.05	.05
16.2400	.05	.05	.05	.05	.05
16.3400	.05	.05	.05	.05	.05
16.4400	.04	.04	.04	.04	.04
16.5400	.04	.04	.04	.04	.04
16.6400	.04	.04	.04	.04	.04
16.7400	.04	.04	.04	.04	.04
16.8400	.04	.04	.04	.04	.04
16.9400	.04	.04	.04	.04	.04
17.0400	.04	.04	.04	.04	.04
17.1400	.04	.04	.04	.04	.04
17.2400	.04	.04	.04	.04	.04
17.3400	.04	.04	.04	.04	.04

17.4400	.04	.04	.04	.04	.04
17.5400	.04	.04	.04	.04	.04
17.6400	.04	.04	.04	.04	.04
17.7400	.04	.04	.04	.04	.04
17.8400	.04	.04	.04	.04	.04
17.9400	.04	.04	.04	.04	.04
18.0400	.04	.04	.04	.04	.04
18.1400	.04	.04	.04	.04	.04
18.2400	.04	.04	.04	.04	.04
18.3400	.04	.04	.04	.04	.03
18.4400	.03	.03	.03	.03	.03
18.5400	.03	.03	.03	.03	.03
18.6400	.03	.03	.03	.03	.03
18.7400	.03	.03	.03	.03	.03
18.8400	.03	.03	.03	.03	.03
18.9400	.03	.03	.03	.03	.03
19.0400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
19.1400	.03	.03	.03	.03	.03
19.2400	.03	.03	.03	.03	.03
19.3400	.03	.03	.03	.03	.03
19.4400	.03	.03	.03	.03	.03
19.5400	.03	.03	.03	.03	.03
19.6400	.03	.03	.03	.03	.03
19.7400	.03	.03	.03	.03	.03
19.8400	.03	.03	.03	.03	.03
19.9400	.03	.03	.03	.03	.03
20.0400	.03	.03	.03	.03	.03
20.1400	.03	.03	.03	.03	.03
20.2400	.03	.03	.03	.03	.03
20.3400	.03	.03	.03	.03	.03
20.4400	.03	.03	.03	.03	.03
20.5400	.03	.03	.03	.03	.03
20.6400	.03	.03	.03	.03	.03
20.7400	.03	.03	.03	.03	.03
20.8400	.03	.03	.03	.03	.03
20.9400	.03	.03	.03	.03	.03
21.0400	.03	.03	.03	.03	.03

21.1400	.03	.03	.03	.03	.03
21.2400	.03	.03	.03	.03	.03
21.3400	.03	.03	.03	.03	.03
21.4400	.02	.02	.02	.02	.02
21.5400	.02	.02	.02	.02	.02
21.6400	.02	.02	.02	.02	.02
21.7400	.02	.02	.02	.02	.02
21.8400	.02	.02	.02	.02	.02
21.9400	.02	.02	.02	.02	.02
22.0400	.02	.02	.02	.02	.02
22.1400	.02	.02	.02	.02	.02
22.2400	.02	.02	.02	.02	.02
22.3400	.02	.02	.02	.02	.02
22.4400	.02	.02	.02	.02	.02
22.5400	.02	.02	.02	.02	.02
22.6400	.02	.02	.02	.02	.02
22.7400	.02	.02	.02	.02	.02
22.8400	.02	.02	.02	.02	.02
22.9400	.02	.02	.02	.02	.02
23.0400	.02	.02	.02	.02	.02
23.1400	.02	.02	.02	.02	.02
23.2400	.02	.02	.02	.02	.02
23.3400	.02	.02	.02	.02	.02
23.4400	.02	.02	.02	.02	.02
23.5400	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
23.6400	.02	.02	.02	.02	.02
23.7400	.02	.02	.02	.02	.02
23.8400	.02	.02	.02	.02	.02
23.9400	.02	.02	.02	.02	.02
24.0400	.02	.02	.02	.01	.01
24.1400	.01	.01	.00	.00	

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.45

Name.... OUT 20

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 25

SUMMARY FOR HYDROGRAPH ADDITION  
 at Node: OUT 20

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
ROUTE 10          POND 10        IN              ROUTE 10       25
=====
  
```

INFLOWS TO: OUT 20

```

-----
HYG file      HYG ID        HYG tag      Volume      Peak Time    Peak Flow
ac-ft         hrs           cfs
-----
                ROUTE 10      25           .178        11.9000     2.90
  
```

TOTAL FLOW INTO: OUT 20

```

-----
HYG file      HYG ID        HYG tag      Volume      Peak Time    Peak Flow
ac-ft         hrs           cfs
-----
                OUT 20        25           .178        11.9000     2.90
  
```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.46

Name.... OUT 20

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = OUT 20  
 HYG Tag = 25

```

-----
Peak Discharge =      2.90 cfs
Time to Peak   =     11.9000 hrs
HYG Volume     =      .178 ac-ft
-----
  
```

HYDROGRAPH ORDINATES (cfs)

Time |  
 hrs |                    Output Time increment = .0200 hrs  
      |                    Time on left represents time for first value in each row.



2.3200	.00	.00	.01	.01	.01
2.4200	.01	.01	.01	.02	.02
2.5200	.02	.02	.02	.02	.02
2.6200	.02	.02	.02	.02	.02
2.7200	.02	.02	.02	.02	.02
2.8200	.02	.02	.02	.02	.02
2.9200	.02	.02	.02	.02	.02
3.0200	.02	.02	.02	.02	.02
3.1200	.02	.02	.02	.02	.02
3.2200	.02	.02	.02	.02	.02
3.3200	.02	.02	.02	.02	.02
3.4200	.02	.02	.02	.02	.02
3.5200	.02	.02	.02	.02	.02
3.6200	.02	.02	.02	.02	.02
3.7200	.02	.02	.02	.02	.02
3.8200	.02	.02	.02	.02	.02
3.9200	.02	.02	.02	.02	.02
4.0200	.02	.02	.02	.02	.02
4.1200	.02	.02	.02	.02	.03
4.2200	.03	.03	.03	.03	.03
4.3200	.03	.03	.03	.03	.03
4.4200	.03	.03	.03	.03	.03
4.5200	.03	.03	.03	.03	.03
4.6200	.03	.03	.03	.03	.03
4.7200	.03	.03	.03	.03	.03
4.8200	.03	.03	.03	.03	.03
4.9200	.03	.03	.03	.03	.03
5.0200	.03	.03	.03	.03	.03
5.1200	.03	.03	.03	.03	.03
5.2200	.03	.03	.03	.03	.03
5.3200	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.47

Name.... OUT 20

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
5.4200	.03	.03	.03	.03	.03
5.5200	.03	.03	.03	.03	.03
5.6200	.03	.03	.03	.03	.03
5.7200	.03	.03	.03	.03	.03
5.8200	.03	.03	.03	.03	.03

5.9200	.04	.04	.04	.04	.04
6.0200	.04	.04	.04	.04	.04
6.1200	.04	.04	.04	.04	.04
6.2200	.04	.04	.04	.04	.04
6.3200	.04	.04	.04	.04	.04
6.4200	.04	.04	.04	.04	.04
6.5200	.04	.04	.04	.04	.04
6.6200	.04	.04	.04	.04	.04
6.7200	.04	.04	.04	.04	.04
6.8200	.04	.04	.04	.04	.04
6.9200	.04	.04	.04	.04	.04
7.0200	.04	.04	.04	.04	.04
7.1200	.04	.04	.04	.04	.04
7.2200	.04	.04	.04	.04	.04
7.3200	.04	.04	.04	.04	.04
7.4200	.04	.04	.04	.04	.04
7.5200	.04	.04	.04	.04	.04
7.6200	.04	.04	.04	.04	.04
7.7200	.04	.04	.04	.04	.05
7.8200	.05	.05	.05	.05	.05
7.9200	.05	.05	.05	.05	.05
8.0200	.05	.05	.05	.05	.05
8.1200	.05	.05	.05	.05	.05
8.2200	.05	.05	.05	.05	.05
8.3200	.05	.05	.05	.05	.05
8.4200	.05	.05	.05	.05	.06
8.5200	.06	.06	.06	.06	.06
8.6200	.06	.06	.06	.06	.06
8.7200	.06	.06	.06	.06	.06
8.8200	.06	.06	.06	.06	.06
8.9200	.06	.07	.07	.07	.07
9.0200	.07	.07	.07	.07	.07
9.1200	.07	.07	.07	.07	.07
9.2200	.07	.07	.07	.07	.07
9.3200	.07	.07	.07	.07	.07
9.4200	.07	.07	.07	.07	.07
9.5200	.07	.07	.07	.07	.07
9.6200	.07	.07	.07	.07	.07
9.7200	.07	.07	.07	.08	.08
9.8200	.08	.08	.08	.08	.08

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
9.9200	.08	.08	.08	.08	.08
10.0200	.08	.08	.09	.09	.09
10.1200	.09	.09	.09	.09	.09
10.2200	.09	.09	.10	.10	.10
10.3200	.10	.10	.10	.10	.10
10.4200	.10	.10	.11	.11	.11
10.5200	.11	.11	.11	.11	.11
10.6200	.12	.12	.12	.12	.12
10.7200	.12	.13	.13	.13	.13
10.8200	.13	.13	.14	.14	.14
10.9200	.14	.14	.14	.15	.15
11.0200	.15	.15	.15	.16	.16
11.1200	.16	.17	.17	.17	.18
11.2200	.18	.19	.19	.19	.20
11.3200	.20	.21	.21	.22	.22
11.4200	.22	.23	.23	.24	.24
11.5200	.25	.26	.29	.33	.37
11.6200	.42	.46	.51	.59	.65
11.7200	.71	.78	.85	.93	1.00
11.8200	1.07	1.16	1.25	2.03	2.90
11.9200	2.88	2.84	2.65	2.45	2.31
12.0200	2.17	1.90	1.47	1.29	1.25
12.1200	1.19	1.13	1.06	.99	.92
12.2200	.86	.79	.72	.66	.60
12.3200	.55	.50	.46	.42	.38
12.4200	.35	.33	.30	.29	.27
12.5200	.26	.25	.24	.23	.22
12.6200	.21	.20	.20	.19	.19
12.7200	.19	.18	.18	.18	.18
12.8200	.17	.17	.17	.17	.16
12.9200	.16	.16	.16	.15	.15
13.0200	.15	.15	.15	.14	.14
13.1200	.14	.14	.14	.13	.13
13.2200	.13	.13	.13	.13	.13
13.3200	.13	.12	.12	.12	.12
13.4200	.12	.12	.12	.11	.11
13.5200	.11	.11	.11	.11	.11
13.6200	.11	.11	.10	.10	.10
13.7200	.10	.10	.10	.10	.10
13.8200	.10	.10	.10	.09	.09
13.9200	.09	.09	.09	.09	.09
14.0200	.09	.09	.09	.09	.09
14.1200	.08	.08	.08	.08	.08
14.2200	.08	.08	.08	.08	.08
14.3200	.08	.08	.08	.08	.08

S/N:

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Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
14.4200	.08	.08	.08	.08	.08
14.5200	.08	.08	.08	.08	.08
14.6200	.08	.08	.07	.07	.07
14.7200	.07	.07	.07	.07	.07
14.8200	.07	.07	.07	.07	.07
14.9200	.07	.07	.07	.07	.07
15.0200	.07	.07	.07	.07	.07
15.1200	.07	.07	.07	.07	.07
15.2200	.07	.07	.07	.07	.06
15.3200	.06	.06	.06	.06	.06
15.4200	.06	.06	.06	.06	.06
15.5200	.06	.06	.06	.06	.06
15.6200	.06	.06	.06	.06	.06
15.7200	.06	.06	.06	.06	.06
15.8200	.06	.06	.06	.06	.06
15.9200	.06	.05	.05	.05	.05
16.0200	.05	.05	.05	.05	.05
16.1200	.05	.05	.05	.05	.05
16.2200	.05	.05	.05	.05	.05
16.3200	.05	.05	.05	.05	.05
16.4200	.05	.05	.05	.05	.05
16.5200	.05	.05	.05	.05	.05
16.6200	.05	.05	.05	.05	.05
16.7200	.05	.05	.05	.05	.05
16.8200	.05	.05	.05	.05	.05
16.9200	.05	.05	.05	.05	.05
17.0200	.05	.05	.05	.05	.05
17.1200	.05	.05	.05	.05	.05
17.2200	.05	.05	.05	.05	.05
17.3200	.05	.05	.04	.04	.04
17.4200	.04	.04	.04	.04	.04
17.5200	.04	.04	.04	.04	.04
17.6200	.04	.04	.04	.04	.04
17.7200	.04	.04	.04	.04	.04
17.8200	.04	.04	.04	.04	.04
17.9200	.04	.04	.04	.04	.04
18.0200	.04	.04	.04	.04	.04
18.1200	.04	.04	.04	.04	.04
18.2200	.04	.04	.04	.04	.04

18.3200	.04	.04	.04	.04	.04
18.4200	.04	.04	.04	.04	.04
18.5200	.04	.04	.04	.04	.04
18.6200	.04	.04	.04	.04	.04
18.7200	.04	.04	.04	.04	.04
18.8200	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
18.9200	.04	.04	.04	.04	.04
19.0200	.04	.04	.04	.04	.04
19.1200	.03	.03	.03	.03	.03
19.2200	.03	.03	.03	.03	.03
19.3200	.03	.03	.03	.03	.03
19.4200	.03	.03	.03	.03	.03
19.5200	.03	.03	.03	.03	.03
19.6200	.03	.03	.03	.03	.03
19.7200	.03	.03	.03	.03	.03
19.8200	.03	.03	.03	.03	.03
19.9200	.03	.03	.03	.03	.03
20.0200	.03	.03	.03	.03	.03
20.1200	.03	.03	.03	.03	.03
20.2200	.03	.03	.03	.03	.03
20.3200	.03	.03	.03	.03	.03
20.4200	.03	.03	.03	.03	.03
20.5200	.03	.03	.03	.03	.03
20.6200	.03	.03	.03	.03	.03
20.7200	.03	.03	.03	.03	.03
20.8200	.03	.03	.03	.03	.03
20.9200	.03	.03	.03	.03	.03
21.0200	.03	.03	.03	.03	.03
21.1200	.03	.03	.03	.03	.03
21.2200	.03	.03	.03	.03	.03
21.3200	.03	.03	.03	.03	.03
21.4200	.03	.03	.03	.03	.03
21.5200	.03	.03	.03	.03	.03
21.6200	.03	.03	.03	.03	.03
21.7200	.03	.03	.03	.03	.03
21.8200	.03	.03	.03	.03	.03
21.9200	.03	.03	.03	.03	.03

22.0200	.03	.03	.03	.03	.03
22.1200	.03	.03	.03	.03	.03
22.2200	.03	.03	.03	.03	.03
22.3200	.03	.03	.03	.03	.03
22.4200	.03	.03	.03	.03	.03
22.5200	.03	.03	.03	.03	.03
22.6200	.03	.03	.03	.03	.03
22.7200	.03	.03	.03	.03	.03
22.8200	.03	.03	.03	.03	.03
22.9200	.03	.03	.03	.03	.03
23.0200	.03	.03	.03	.03	.03
23.1200	.03	.03	.03	.03	.03
23.2200	.03	.03	.03	.03	.03
23.3200	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
23.4200	.03	.03	.03	.03	.03
23.5200	.03	.03	.03	.03	.03
23.6200	.03	.03	.03	.03	.03
23.7200	.03	.03	.03	.03	.03
23.8200	.03	.03	.03	.03	.03
23.9200	.03	.03	.03	.02	.02
24.0200	.02	.02	.02	.02	.01
24.1200	.01	.01	.01	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: OUT 20

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

=====

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ROUTE 10	POND 10	IN	ROUTE 10	50

INFLOWS TO: OUT 20

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
ROUTE 10		50	.204	11.9200	3.31

TOTAL FLOW INTO: OUT 20

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
OUT 20		50	.204	11.9200	3.31

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.53

Name.... OUT 20

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = OUT 20  
 HYG Tag = 50

Peak Discharge = 3.31 cfs  
 Time to Peak = 11.9200 hrs  
 HYG Volume = .204 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs	Value 1	Value 2	Value 3	Value 4	Value 5
2.0600	.00	.00	.01	.01	.01
2.1600	.01	.02	.02	.02	.02
2.2600	.02	.02	.02	.02	.02
2.3600	.02	.02	.02	.02	.02
2.4600	.02	.02	.02	.02	.02
2.5600	.02	.02	.02	.02	.02
2.6600	.02	.02	.02	.02	.02
2.7600	.02	.02	.02	.02	.02

2.8600	.02	.02	.02	.02	.02
2.9600	.02	.02	.02	.02	.02
3.0600	.02	.02	.02	.02	.02
3.1600	.02	.02	.02	.02	.02
3.2600	.02	.02	.03	.03	.03
3.3600	.03	.03	.03	.03	.03
3.4600	.03	.03	.03	.03	.03
3.5600	.03	.03	.03	.03	.03
3.6600	.03	.03	.03	.03	.03
3.7600	.03	.03	.03	.03	.03
3.8600	.03	.03	.03	.03	.03
3.9600	.03	.03	.03	.03	.03
4.0600	.03	.03	.03	.03	.03
4.1600	.03	.03	.03	.03	.03
4.2600	.03	.03	.03	.03	.03
4.3600	.03	.03	.03	.03	.03
4.4600	.03	.03	.03	.03	.03
4.5600	.03	.03	.03	.03	.03
4.6600	.03	.03	.03	.03	.03
4.7600	.03	.03	.03	.03	.03
4.8600	.03	.03	.03	.03	.03
4.9600	.03	.03	.04	.04	.04
5.0600	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
5.1600	.04	.04	.04	.04	.04
5.2600	.04	.04	.04	.04	.04
5.3600	.04	.04	.04	.04	.04
5.4600	.04	.04	.04	.04	.04
5.5600	.04	.04	.04	.04	.04
5.6600	.04	.04	.04	.04	.04
5.7600	.04	.04	.04	.04	.04
5.8600	.04	.04	.04	.04	.04
5.9600	.04	.04	.04	.04	.04
6.0600	.04	.04	.04	.04	.04
6.1600	.04	.04	.04	.04	.04
6.2600	.04	.04	.04	.04	.04
6.3600	.04	.04	.04	.04	.04
6.4600	.04	.04	.04	.04	.04



6.5600	.04	.04	.04	.05	.05
6.6600	.05	.05	.05	.05	.05
6.7600	.05	.05	.05	.05	.05
6.8600	.05	.05	.05	.05	.05
6.9600	.05	.05	.05	.05	.05
7.0600	.05	.05	.05	.05	.05
7.1600	.05	.05	.05	.05	.05
7.2600	.05	.05	.05	.05	.05
7.3600	.05	.05	.05	.05	.05
7.4600	.05	.05	.05	.05	.05
7.5600	.05	.05	.05	.05	.05
7.6600	.05	.05	.05	.05	.05
7.7600	.05	.05	.05	.05	.05
7.8600	.05	.05	.05	.05	.05
7.9600	.05	.05	.05	.05	.05
8.0600	.05	.05	.05	.05	.05
8.1600	.06	.06	.06	.06	.06
8.2600	.06	.06	.06	.06	.06
8.3600	.06	.06	.06	.06	.06
8.4600	.06	.06	.06	.06	.06
8.5600	.07	.07	.07	.07	.07
8.6600	.07	.07	.07	.07	.07
8.7600	.07	.07	.07	.07	.07
8.8600	.07	.07	.07	.07	.07
8.9600	.08	.08	.08	.08	.08
9.0600	.08	.08	.08	.08	.08
9.1600	.08	.08	.08	.08	.08
9.2600	.08	.08	.08	.08	.08
9.3600	.08	.08	.08	.08	.08
9.4600	.08	.08	.08	.08	.08
9.5600	.08	.08	.08	.08	.08

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
9.6600	.08	.08	.08	.08	.08
9.7600	.09	.09	.09	.09	.09
9.8600	.09	.09	.09	.09	.09
9.9600	.09	.09	.10	.10	.10
10.0600	.10	.10	.10	.10	.10
10.1600	.10	.10	.11	.11	.11

10.2600	.11	.11	.11	.11	.11
10.3600	.12	.12	.12	.12	.12
10.4600	.12	.12	.12	.12	.13
10.5600	.13	.13	.13	.13	.13
10.6600	.14	.14	.14	.14	.14
10.7600	.15	.15	.15	.15	.15
10.8600	.16	.16	.16	.16	.16
10.9600	.17	.17	.17	.17	.17
11.0600	.18	.18	.18	.19	.19
11.1600	.19	.20	.20	.21	.21
11.2600	.22	.22	.23	.23	.24
11.3600	.24	.25	.25	.26	.26
11.4600	.27	.27	.28	.28	.30
11.5600	.33	.38	.42	.46	.51
11.6600	.58	.65	.72	.79	.86
11.7600	.93	1.02	1.10	1.18	1.27
11.8600	2.18	3.01	3.19	3.31	3.24
11.9600	3.02	2.79	2.63	2.48	2.17
12.0600	1.67	1.30	1.27	1.22	1.16
12.1600	1.10	1.04	.97	.91	.85
12.2600	.78	.73	.67	.62	.57
12.3600	.52	.48	.45	.42	.39
12.4600	.36	.33	.31	.30	.28
12.5600	.27	.26	.25	.24	.23
12.6600	.23	.22	.22	.21	.21
12.7600	.21	.20	.20	.20	.19
12.8600	.19	.19	.19	.18	.18
12.9600	.18	.18	.17	.17	.17
13.0600	.17	.16	.16	.16	.16
13.1600	.16	.15	.15	.15	.15
13.2600	.15	.15	.14	.14	.14
13.3600	.14	.14	.14	.14	.13
13.4600	.13	.13	.13	.13	.13
13.5600	.13	.12	.12	.12	.12
13.6600	.12	.12	.12	.12	.11
13.7600	.11	.11	.11	.11	.11
13.8600	.11	.11	.11	.11	.10
13.9600	.10	.10	.10	.10	.10
14.0600	.10	.10	.10	.10	.10

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time |

Output Time increment = .0200 hrs

hrs	Time on left represents time for first value in each row.				
14.1600	.10	.09	.09	.09	.09
14.2600	.09	.09	.09	.09	.09
14.3600	.09	.09	.09	.09	.09
14.4600	.09	.09	.09	.09	.09
14.5600	.09	.09	.09	.09	.09
14.6600	.09	.09	.08	.08	.08
14.7600	.08	.08	.08	.08	.08
14.8600	.08	.08	.08	.08	.08
14.9600	.08	.08	.08	.08	.08
15.0600	.08	.08	.08	.08	.08
15.1600	.08	.08	.08	.08	.07
15.2600	.07	.07	.07	.07	.07
15.3600	.07	.07	.07	.07	.07
15.4600	.07	.07	.07	.07	.07
15.5600	.07	.07	.07	.07	.07
15.6600	.07	.07	.07	.07	.07
15.7600	.07	.07	.06	.06	.06
15.8600	.06	.06	.06	.06	.06
15.9600	.06	.06	.06	.06	.06
16.0600	.06	.06	.06	.06	.06
16.1600	.06	.06	.06	.06	.06
16.2600	.06	.06	.06	.06	.06
16.3600	.06	.06	.06	.06	.06
16.4600	.06	.06	.06	.06	.06
16.5600	.06	.06	.06	.06	.06
16.6600	.06	.06	.06	.06	.06
16.7600	.06	.05	.05	.05	.05
16.8600	.05	.05	.05	.05	.05
16.9600	.05	.05	.05	.05	.05
17.0600	.05	.05	.05	.05	.05
17.1600	.05	.05	.05	.05	.05
17.2600	.05	.05	.05	.05	.05
17.3600	.05	.05	.05	.05	.05
17.4600	.05	.05	.05	.05	.05
17.5600	.05	.05	.05	.05	.05
17.6600	.05	.05	.05	.05	.05
17.7600	.05	.05	.05	.05	.05
17.8600	.05	.05	.05	.05	.05
17.9600	.05	.05	.05	.05	.05
18.0600	.05	.05	.05	.05	.05
18.1600	.05	.05	.05	.05	.05
18.2600	.05	.05	.05	.05	.04
18.3600	.04	.04	.04	.04	.04
18.4600	.04	.04	.04	.04	.04
18.5600	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	HYDROGRAPH ORDINATES (cfs)				
18.6600	.04	.04	.04	.04	.04
18.7600	.04	.04	.04	.04	.04
18.8600	.04	.04	.04	.04	.04
18.9600	.04	.04	.04	.04	.04
19.0600	.04	.04	.04	.04	.04
19.1600	.04	.04	.04	.04	.04
19.2600	.04	.04	.04	.04	.04
19.3600	.04	.04	.04	.04	.04
19.4600	.04	.04	.04	.04	.04
19.5600	.04	.04	.04	.04	.04
19.6600	.04	.04	.04	.04	.04
19.7600	.04	.04	.04	.04	.04
19.8600	.04	.03	.03	.03	.03
19.9600	.03	.03	.03	.03	.03
20.0600	.03	.03	.03	.03	.03
20.1600	.03	.03	.03	.03	.03
20.2600	.03	.03	.03	.03	.03
20.3600	.03	.03	.03	.03	.03
20.4600	.03	.03	.03	.03	.03
20.5600	.03	.03	.03	.03	.03
20.6600	.03	.03	.03	.03	.03
20.7600	.03	.03	.03	.03	.03
20.8600	.03	.03	.03	.03	.03
20.9600	.03	.03	.03	.03	.03
21.0600	.03	.03	.03	.03	.03
21.1600	.03	.03	.03	.03	.03
21.2600	.03	.03	.03	.03	.03
21.3600	.03	.03	.03	.03	.03
21.4600	.03	.03	.03	.03	.03
21.5600	.03	.03	.03	.03	.03
21.6600	.03	.03	.03	.03	.03
21.7600	.03	.03	.03	.03	.03
21.8600	.03	.03	.03	.03	.03
21.9600	.03	.03	.03	.03	.03
22.0600	.03	.03	.03	.03	.03
22.1600	.03	.03	.03	.03	.03
22.2600	.03	.03	.03	.03	.03
22.3600	.03	.03	.03	.03	.03
22.4600	.03	.03	.03	.03	.03
22.5600	.03	.03	.03	.03	.03

22.6600		.03	.03	.03	.03	.03
22.7600		.03	.03	.03	.03	.03
22.8600		.03	.03	.03	.03	.03
22.9600		.03	.03	.03	.03	.03
23.0600		.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs					
	Time on left represents time for first value in each row.					
23.1600	.03	.03	.03	.03	.03	.03
23.2600	.03	.03	.03	.03	.03	.03
23.3600	.03	.03	.03	.03	.03	.03
23.4600	.03	.03	.03	.03	.03	.03
23.5600	.03	.03	.03	.03	.03	.03
23.6600	.03	.03	.03	.03	.03	.03
23.7600	.03	.03	.03	.03	.03	.03
23.8600	.03	.03	.03	.03	.03	.03
23.9600	.03	.03	.03	.03	.03	.03
24.0600	.02	.02	.02	.01	.01	.01
24.1600	.01	.00	.00	.00	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: OUT 20

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ROUTE 10	POND 10	IN	ROUTE 10	100

INFLOWS TO: OUT 20

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
	ROUTE 10	100	.231	11.9200	3.74

TOTAL FLOW INTO: OUT 20

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
	OUT 20	100	.231	11.9200	3.74

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.60

Name.... OUT 20

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

TOTAL NODE INFLOW...

HYG file =

HYG ID = OUT 20

HYG Tag = 100

Peak Discharge = 3.74 cfs

Time to Peak = 11.9200 hrs

HYG Volume = .231 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
1.8400	.00	.00	.01	.01	.01
1.9400	.02	.02	.02	.02	.02
2.0400	.02	.02	.02	.02	.02
2.1400	.02	.02	.02	.02	.02
2.2400	.02	.02	.02	.02	.02
2.3400	.02	.02	.02	.02	.02
2.4400	.02	.02	.02	.02	.02
2.5400	.02	.02	.02	.02	.03
2.6400	.03	.03	.03	.03	.03
2.7400	.03	.03	.03	.03	.03
2.8400	.03	.03	.03	.03	.03
2.9400	.03	.03	.03	.03	.03
3.0400	.03	.03	.03	.03	.03
3.1400	.03	.03	.03	.03	.03

3.2400	.03	.03	.03	.03	.03
3.3400	.03	.03	.03	.03	.03
3.4400	.03	.03	.03	.03	.03
3.5400	.03	.03	.03	.03	.03
3.6400	.03	.03	.03	.03	.03
3.7400	.03	.03	.03	.03	.03
3.8400	.03	.03	.03	.03	.03
3.9400	.03	.03	.03	.03	.03
4.0400	.03	.03	.03	.03	.03
4.1400	.03	.03	.03	.03	.03
4.2400	.04	.04	.04	.04	.04
4.3400	.04	.04	.04	.04	.04
4.4400	.04	.04	.04	.04	.04
4.5400	.04	.04	.04	.04	.04
4.6400	.04	.04	.04	.04	.04
4.7400	.04	.04	.04	.04	.04
4.8400	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
4.9400	.04	.04	.04	.04	.04
5.0400	.04	.04	.04	.04	.04
5.1400	.04	.04	.04	.04	.04
5.2400	.04	.04	.04	.04	.04
5.3400	.04	.04	.04	.04	.04
5.4400	.04	.04	.04	.04	.04
5.5400	.04	.04	.04	.04	.04
5.6400	.05	.05	.05	.05	.05
5.7400	.05	.05	.05	.05	.05
5.8400	.05	.05	.05	.05	.05
5.9400	.05	.05	.05	.05	.05
6.0400	.05	.05	.05	.05	.05
6.1400	.05	.05	.05	.05	.05
6.2400	.05	.05	.05	.05	.05
6.3400	.05	.05	.05	.05	.05
6.4400	.05	.05	.05	.05	.05
6.5400	.05	.05	.05	.05	.05
6.6400	.05	.05	.05	.05	.05
6.7400	.05	.05	.05	.05	.05
6.8400	.05	.05	.05	.05	.05

6.9400	.05	.05	.05	.05	.05
7.0400	.05	.05	.05	.05	.05
7.1400	.06	.06	.06	.06	.06
7.2400	.06	.06	.06	.06	.06
7.3400	.06	.06	.06	.06	.06
7.4400	.06	.06	.06	.06	.06
7.5400	.06	.06	.06	.06	.06
7.6400	.06	.06	.06	.06	.06
7.7400	.06	.06	.06	.06	.06
7.8400	.06	.06	.06	.06	.06
7.9400	.06	.06	.06	.06	.06
8.0400	.06	.06	.06	.06	.06
8.1400	.06	.06	.06	.06	.06
8.2400	.06	.07	.07	.07	.07
8.3400	.07	.07	.07	.07	.07
8.4400	.07	.07	.07	.07	.07
8.5400	.07	.07	.07	.08	.08
8.6400	.08	.08	.08	.08	.08
8.7400	.08	.08	.08	.08	.08
8.8400	.08	.08	.08	.08	.08
8.9400	.09	.09	.09	.09	.09
9.0400	.09	.09	.09	.09	.09
9.1400	.09	.09	.09	.09	.09
9.2400	.09	.09	.09	.09	.09
9.3400	.09	.09	.09	.09	.09

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
9.4400	.09	.09	.09	.09	.09
9.5400	.09	.09	.09	.09	.09
9.6400	.09	.09	.09	.09	.10
9.7400	.10	.10	.10	.10	.10
9.8400	.10	.10	.10	.10	.10
9.9400	.11	.11	.11	.11	.11
10.0400	.11	.11	.11	.11	.11
10.1400	.12	.12	.12	.12	.12
10.2400	.12	.12	.13	.13	.13
10.3400	.13	.13	.13	.13	.13
10.4400	.14	.14	.14	.14	.14
10.5400	.14	.14	.15	.15	.15



10.6400	.15	.15	.16	.16	.16
10.7400	.16	.16	.17	.17	.17
10.8400	.17	.18	.18	.18	.18
10.9400	.19	.19	.19	.19	.20
11.0400	.20	.20	.20	.21	.21
11.1400	.22	.22	.23	.23	.24
11.2400	.24	.25	.25	.26	.26
11.3400	.27	.27	.28	.28	.29
11.4400	.29	.30	.31	.31	.32
11.5400	.34	.38	.42	.47	.51
11.6400	.57	.63	.72	.79	.86
11.7400	.94	1.02	1.11	1.20	1.29
11.8400	2.31	2.93	3.33	3.62	3.74
11.9400	3.66	3.42	3.16	2.98	2.80
12.0400	2.45	1.89	1.35	1.29	1.25
12.1400	1.20	1.14	1.08	1.02	.96
12.2400	.90	.85	.79	.74	.68
12.3400	.64	.59	.55	.51	.48
12.4400	.45	.42	.39	.36	.34
12.5400	.32	.31	.29	.28	.27
12.6400	.26	.26	.25	.25	.24
12.7400	.24	.23	.23	.23	.22
12.8400	.22	.22	.21	.21	.21
12.9400	.20	.20	.20	.20	.19
13.0400	.19	.19	.18	.18	.18
13.1400	.18	.18	.17	.17	.17
13.2400	.17	.17	.16	.16	.16
13.3400	.16	.16	.16	.15	.15
13.4400	.15	.15	.15	.15	.14
13.5400	.14	.14	.14	.14	.14
13.6400	.14	.13	.13	.13	.13
13.7400	.13	.13	.13	.13	.13
13.8400	.12	.12	.12	.12	.12

S/N:

PondPack Ver:

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Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
13.9400	.12	.12	.12	.11	.11
14.0400	.11	.11	.11	.11	.11
14.1400	.11	.11	.11	.11	.11
14.2400	.11	.10	.10	.10	.10

14.3400	.10	.10	.10	.10	.10
14.4400	.10	.10	.10	.10	.10
14.5400	.10	.10	.10	.10	.10
14.6400	.10	.10	.10	.10	.10
14.7400	.09	.09	.09	.09	.09
14.8400	.09	.09	.09	.09	.09
14.9400	.09	.09	.09	.09	.09
15.0400	.09	.09	.09	.09	.09
15.1400	.09	.09	.09	.09	.09
15.2400	.08	.08	.08	.08	.08
15.3400	.08	.08	.08	.08	.08
15.4400	.08	.08	.08	.08	.08
15.5400	.08	.08	.08	.08	.08
15.6400	.08	.08	.08	.08	.08
15.7400	.07	.07	.07	.07	.07
15.8400	.07	.07	.07	.07	.07
15.9400	.07	.07	.07	.07	.07
16.0400	.07	.07	.07	.07	.07
16.1400	.07	.07	.07	.07	.07
16.2400	.07	.07	.07	.07	.07
16.3400	.07	.07	.06	.06	.06
16.4400	.06	.06	.06	.06	.06
16.5400	.06	.06	.06	.06	.06
16.6400	.06	.06	.06	.06	.06
16.7400	.06	.06	.06	.06	.06
16.8400	.06	.06	.06	.06	.06
16.9400	.06	.06	.06	.06	.06
17.0400	.06	.06	.06	.06	.06
17.1400	.06	.06	.06	.06	.06
17.2400	.06	.06	.06	.06	.06
17.3400	.06	.06	.06	.06	.06
17.4400	.06	.06	.06	.06	.06
17.5400	.06	.06	.06	.06	.06
17.6400	.06	.06	.06	.06	.06
17.7400	.06	.05	.05	.05	.05
17.8400	.05	.05	.05	.05	.05
17.9400	.05	.05	.05	.05	.05
18.0400	.05	.05	.05	.05	.05
18.1400	.05	.05	.05	.05	.05
18.2400	.05	.05	.05	.05	.05
18.3400	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

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Name.... OUT 20

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
18.4400	.05	.05	.05	.05	.05
18.5400	.05	.05	.05	.05	.05
18.6400	.05	.05	.05	.05	.05
18.7400	.05	.05	.05	.05	.05
18.8400	.05	.05	.05	.05	.05
18.9400	.05	.05	.05	.05	.05
19.0400	.05	.05	.05	.05	.05
19.1400	.04	.04	.04	.04	.04
19.2400	.04	.04	.04	.04	.04
19.3400	.04	.04	.04	.04	.04
19.4400	.04	.04	.04	.04	.04
19.5400	.04	.04	.04	.04	.04
19.6400	.04	.04	.04	.04	.04
19.7400	.04	.04	.04	.04	.04
19.8400	.04	.04	.04	.04	.04
19.9400	.04	.04	.04	.04	.04
20.0400	.04	.04	.04	.04	.04
20.1400	.04	.04	.04	.04	.04
20.2400	.04	.04	.04	.04	.04
20.3400	.04	.04	.04	.04	.04
20.4400	.04	.04	.04	.04	.04
20.5400	.04	.04	.04	.04	.04
20.6400	.04	.04	.04	.04	.04
20.7400	.04	.04	.04	.04	.04
20.8400	.04	.04	.04	.04	.04
20.9400	.04	.04	.04	.04	.04
21.0400	.04	.04	.04	.04	.04
21.1400	.04	.04	.04	.04	.04
21.2400	.04	.04	.04	.04	.04
21.3400	.04	.04	.04	.04	.04
21.4400	.04	.04	.04	.04	.04
21.5400	.04	.04	.04	.04	.04
21.6400	.04	.04	.04	.04	.04
21.7400	.04	.04	.04	.04	.04
21.8400	.04	.04	.04	.04	.04
21.9400	.04	.04	.04	.04	.03
22.0400	.03	.03	.03	.03	.03
22.1400	.03	.03	.03	.03	.03
22.2400	.03	.03	.03	.03	.03
22.3400	.03	.03	.03	.03	.03
22.4400	.03	.03	.03	.03	.03
22.5400	.03	.03	.03	.03	.03
22.6400	.03	.03	.03	.03	.03
22.7400	.03	.03	.03	.03	.03
22.8400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Addition Summary

Page 9.65

Name.... OUT 20

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
22.9400	.03	.03	.03	.03	.03
23.0400	.03	.03	.03	.03	.03
23.1400	.03	.03	.03	.03	.03
23.2400	.03	.03	.03	.03	.03
23.3400	.03	.03	.03	.03	.03
23.4400	.03	.03	.03	.03	.03
23.5400	.03	.03	.03	.03	.03
23.6400	.03	.03	.03	.03	.03
23.7400	.03	.03	.03	.03	.03
23.8400	.03	.03	.03	.03	.03
23.9400	.03	.03	.03	.03	.03
24.0400	.03	.03	.02	.02	.01
24.1400	.01	.01	.01	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.01

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

TIME vs. ELEVATION (ft)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
1.5000	592.26	592.26	592.26	592.26	592.26
1.6000	592.27	592.27	592.27	592.27	592.27
1.7000	592.27	592.28	592.28	592.28	592.28
1.8000	592.29	592.29	592.29	592.29	592.30
1.9000	592.30	592.30	592.30	592.31	592.31
2.0000	592.31	592.32	592.32	592.32	592.33
2.1000	592.33	592.33	592.34	592.34	592.35
2.2000	592.35	592.35	592.36	592.36	592.37
2.3000	592.37	592.38	592.38	592.39	592.39
2.4000	592.40	592.40	592.41	592.41	592.42
2.5000	592.42	592.43	592.43	592.44	592.44

2.6000	592.45	592.45	592.46	592.47	592.47
2.7000	592.48	592.48	592.49	592.50	592.50
2.8000	592.51	592.51	592.52	592.52	592.52
2.9000	592.53	592.53	592.54	592.54	592.54
3.0000	592.55	592.55	592.56	592.56	592.56
3.1000	592.57	592.57	592.58	592.58	592.59
3.2000	592.59	592.59	592.60	592.60	592.61
3.3000	592.61	592.62	592.62	592.63	592.63
3.4000	592.64	592.64	592.65	592.65	592.66
3.5000	592.66	592.67	592.67	592.68	592.68
3.6000	592.69	592.69	592.70	592.70	592.71
3.7000	592.71	592.72	592.72	592.73	592.73
3.8000	592.74	592.74	592.75	592.76	592.76
3.9000	592.76	592.77	592.77	592.77	592.77
4.0000	592.77	592.77	592.77	592.77	592.77
4.1000	592.77	592.77	592.77	592.77	592.77
4.2000	592.77	592.77	592.77	592.77	592.77
4.3000	592.77	592.77	592.77	592.77	592.77
4.4000	592.77	592.77	592.77	592.77	592.77
4.5000	592.77	592.78	592.78	592.78	592.78
4.6000	592.78	592.78	592.78	592.78	592.78
4.7000	592.78	592.78	592.78	592.78	592.78
4.8000	592.78	592.78	592.78	592.78	592.78
4.9000	592.78	592.78	592.78	592.78	592.78
5.0000	592.78	592.78	592.78	592.78	592.78
5.1000	592.78	592.78	592.78	592.78	592.78
5.2000	592.78	592.78	592.78	592.78	592.78
5.3000	592.78	592.78	592.78	592.78	592.78
5.4000	592.78	592.78	592.78	592.78	592.78
5.5000	592.78	592.78	592.78	592.78	592.78
5.6000	592.78	592.78	592.78	592.78	592.78
5.7000	592.78	592.78	592.78	592.78	592.78

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.02

Name.... POND 10      OUT      Tag:      2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      2

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
5.8000	592.78	592.78	592.78	592.78	592.78
5.9000	592.78	592.78	592.78	592.78	592.78
6.0000	592.78	592.78	592.78	592.78	592.78
6.1000	592.78	592.78	592.78	592.78	592.78

6.2000	592.78	592.78	592.78	592.78	592.78
6.3000	592.78	592.78	592.78	592.78	592.78
6.4000	592.78	592.78	592.78	592.78	592.78
6.5000	592.78	592.78	592.78	592.78	592.78
6.6000	592.78	592.78	592.78	592.78	592.78
6.7000	592.78	592.78	592.78	592.79	592.79
6.8000	592.79	592.79	592.79	592.79	592.79
6.9000	592.79	592.79	592.79	592.79	592.79
7.0000	592.79	592.79	592.79	592.79	592.79
7.1000	592.79	592.79	592.79	592.79	592.79
7.2000	592.79	592.79	592.79	592.79	592.79
7.3000	592.79	592.79	592.79	592.79	592.79
7.4000	592.79	592.79	592.79	592.79	592.79
7.5000	592.79	592.79	592.79	592.79	592.79
7.6000	592.79	592.79	592.79	592.79	592.79
7.7000	592.79	592.79	592.79	592.79	592.79
7.8000	592.79	592.79	592.79	592.79	592.79
7.9000	592.79	592.79	592.79	592.79	592.79
8.0000	592.79	592.79	592.79	592.79	592.79
8.1000	592.79	592.79	592.79	592.79	592.79
8.2000	592.79	592.79	592.79	592.79	592.79
8.3000	592.79	592.79	592.79	592.79	592.79
8.4000	592.80	592.80	592.80	592.80	592.80
8.5000	592.80	592.80	592.80	592.80	592.80
8.6000	592.80	592.80	592.80	592.80	592.80
8.7000	592.80	592.80	592.80	592.80	592.80
8.8000	592.80	592.80	592.80	592.80	592.80
8.9000	592.80	592.80	592.80	592.80	592.80
9.0000	592.80	592.81	592.81	592.81	592.81
9.1000	592.81	592.81	592.81	592.81	592.81
9.2000	592.81	592.81	592.81	592.81	592.81
9.3000	592.81	592.81	592.81	592.81	592.81
9.4000	592.81	592.81	592.81	592.81	592.81
9.5000	592.81	592.81	592.81	592.81	592.81
9.6000	592.81	592.81	592.81	592.81	592.81
9.7000	592.81	592.81	592.81	592.81	592.81
9.8000	592.81	592.81	592.81	592.81	592.81
9.9000	592.81	592.82	592.82	592.82	592.82
10.0000	592.82	592.82	592.82	592.82	592.82
10.1000	592.82	592.82	592.82	592.82	592.82

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.03

Name.... POND 10      OUT      Tag:      2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      2

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
10.2000	592.82	592.82	592.82	592.83	592.83
10.3000	592.83	592.83	592.83	592.83	592.83
10.4000	592.83	592.83	592.83	592.83	592.83
10.5000	592.83	592.84	592.84	592.84	592.84
10.6000	592.84	592.84	592.84	592.84	592.84
10.7000	592.84	592.85	592.85	592.85	592.85
10.8000	592.85	592.85	592.85	592.85	592.86
10.9000	592.86	592.86	592.86	592.86	592.86
11.0000	592.86	592.87	592.87	592.87	592.87
11.1000	592.87	592.87	592.88	592.88	592.88
11.2000	592.88	592.89	592.89	592.89	592.90
11.3000	592.90	592.90	592.90	592.91	592.91
11.4000	592.91	592.92	592.92	592.92	592.93
11.5000	592.93	592.93	592.95	592.97	592.99
11.6000	593.02	593.05	593.08	593.13	593.19
11.7000	593.24	593.29	593.35	593.43	593.51
11.8000	593.60	593.69	593.79	593.93	594.10
11.9000	594.28	594.46	594.61	594.71	594.78
12.0000	594.81	594.82	594.79	594.71	594.56
12.1000	594.39	594.20	594.02	593.84	593.68
12.2000	593.54	593.42	593.32	593.23	593.17
12.3000	593.12	593.08	593.05	593.03	593.02
12.4000	593.00	592.99	592.98	592.97	592.96
12.5000	592.95	592.94	592.93	592.93	592.92
12.6000	592.92	592.91	592.91	592.90	592.90
12.7000	592.90	592.89	592.89	592.89	592.89
12.8000	592.89	592.88	592.88	592.88	592.88
12.9000	592.88	592.88	592.87	592.87	592.87
13.0000	592.87	592.87	592.87	592.86	592.86
13.1000	592.86	592.86	592.86	592.86	592.86
13.2000	592.86	592.85	592.85	592.85	592.85
13.3000	592.85	592.85	592.85	592.85	592.85
13.4000	592.85	592.85	592.84	592.84	592.84
13.5000	592.84	592.84	592.84	592.84	592.84
13.6000	592.84	592.84	592.84	592.84	592.83
13.7000	592.83	592.83	592.83	592.83	592.83
13.8000	592.83	592.83	592.83	592.83	592.83
13.9000	592.83	592.83	592.83	592.83	592.82
14.0000	592.82	592.82	592.82	592.82	592.82
14.1000	592.82	592.82	592.82	592.82	592.82
14.2000	592.82	592.82	592.82	592.82	592.82
14.3000	592.82	592.82	592.82	592.82	592.82
14.4000	592.82	592.82	592.82	592.82	592.82
14.5000	592.82	592.82	592.82	592.82	592.82

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.04

Name.... POND 10        OUT    Tag:        2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr    Tag:        2

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
14.6000	592.81	592.81	592.81	592.81	592.81
14.7000	592.81	592.81	592.81	592.81	592.81
14.8000	592.81	592.81	592.81	592.81	592.81
14.9000	592.81	592.81	592.81	592.81	592.81
15.0000	592.81	592.81	592.81	592.81	592.81
15.1000	592.81	592.81	592.81	592.81	592.81
15.2000	592.81	592.81	592.81	592.81	592.81
15.3000	592.81	592.81	592.81	592.81	592.81
15.4000	592.81	592.81	592.81	592.80	592.80
15.5000	592.80	592.80	592.80	592.80	592.80
15.6000	592.80	592.80	592.80	592.80	592.80
15.7000	592.80	592.80	592.80	592.80	592.80
15.8000	592.80	592.80	592.80	592.80	592.80
15.9000	592.80	592.80	592.80	592.80	592.80
16.0000	592.80	592.80	592.80	592.80	592.80
16.1000	592.80	592.80	592.80	592.80	592.80
16.2000	592.80	592.80	592.80	592.80	592.80
16.3000	592.80	592.80	592.80	592.80	592.80
16.4000	592.80	592.80	592.80	592.80	592.80
16.5000	592.80	592.80	592.80	592.80	592.80
16.6000	592.80	592.80	592.80	592.80	592.80
16.7000	592.80	592.80	592.79	592.79	592.79
16.8000	592.79	592.79	592.79	592.79	592.79
16.9000	592.79	592.79	592.79	592.79	592.79
17.0000	592.79	592.79	592.79	592.79	592.79
17.1000	592.79	592.79	592.79	592.79	592.79
17.2000	592.79	592.79	592.79	592.79	592.79
17.3000	592.79	592.79	592.79	592.79	592.79
17.4000	592.79	592.79	592.79	592.79	592.79
17.5000	592.79	592.79	592.79	592.79	592.79
17.6000	592.79	592.79	592.79	592.79	592.79
17.7000	592.79	592.79	592.79	592.79	592.79
17.8000	592.79	592.79	592.79	592.79	592.79
17.9000	592.79	592.79	592.79	592.79	592.79
18.0000	592.79	592.79	592.79	592.79	592.79
18.1000	592.79	592.79	592.79	592.79	592.79
18.2000	592.79	592.79	592.79	592.79	592.79
18.3000	592.79	592.79	592.79	592.79	592.79



18.4000	592.79	592.79	592.79	592.79	592.79
18.5000	592.79	592.79	592.79	592.79	592.79
18.6000	592.79	592.79	592.79	592.79	592.79
18.7000	592.79	592.79	592.79	592.79	592.79
18.8000	592.79	592.79	592.79	592.79	592.79
18.9000	592.79	592.79	592.79	592.79	592.79

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.05

Name.... POND 10      OUT      Tag:      2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      2

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
19.0000	592.79	592.79	592.79	592.79	592.79
19.1000	592.79	592.79	592.79	592.79	592.79
19.2000	592.78	592.78	592.78	592.78	592.78
19.3000	592.78	592.78	592.78	592.78	592.78
19.4000	592.78	592.78	592.78	592.78	592.78
19.5000	592.78	592.78	592.78	592.78	592.78
19.6000	592.78	592.78	592.78	592.78	592.78
19.7000	592.78	592.78	592.78	592.78	592.78
19.8000	592.78	592.78	592.78	592.78	592.78
19.9000	592.78	592.78	592.78	592.78	592.78
20.0000	592.78	592.78	592.78	592.78	592.78
20.1000	592.78	592.78	592.78	592.78	592.78
20.2000	592.78	592.78	592.78	592.78	592.78
20.3000	592.78	592.78	592.78	592.78	592.78
20.4000	592.78	592.78	592.78	592.78	592.78
20.5000	592.78	592.78	592.78	592.78	592.78
20.6000	592.78	592.78	592.78	592.78	592.78
20.7000	592.78	592.78	592.78	592.78	592.78
20.8000	592.78	592.78	592.78	592.78	592.78
20.9000	592.78	592.78	592.78	592.78	592.78
21.0000	592.78	592.78	592.78	592.78	592.78
21.1000	592.78	592.78	592.78	592.78	592.78
21.2000	592.78	592.78	592.78	592.78	592.78
21.3000	592.78	592.78	592.78	592.78	592.78
21.4000	592.78	592.78	592.78	592.78	592.78
21.5000	592.78	592.78	592.78	592.78	592.78
21.6000	592.78	592.78	592.78	592.78	592.78
21.7000	592.78	592.78	592.78	592.78	592.78
21.8000	592.78	592.78	592.78	592.78	592.78
21.9000	592.78	592.78	592.78	592.78	592.78

22.0000	592.78	592.78	592.78	592.78	592.78
22.1000	592.78	592.78	592.78	592.78	592.78
22.2000	592.78	592.78	592.78	592.78	592.78
22.3000	592.78	592.78	592.78	592.78	592.78
22.4000	592.78	592.78	592.78	592.78	592.78
22.5000	592.78	592.78	592.78	592.78	592.78
22.6000	592.78	592.78	592.78	592.78	592.78
22.7000	592.78	592.78	592.78	592.78	592.78
22.8000	592.78	592.78	592.78	592.78	592.78
22.9000	592.78	592.78	592.78	592.78	592.78
23.0000	592.78	592.78	592.78	592.78	592.78
23.1000	592.78	592.78	592.78	592.78	592.78
23.2000	592.78	592.78	592.78	592.78	592.78
23.3000	592.78	592.78	592.78	592.78	592.78

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Time-Elev

Page 10.06

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
23.4000	592.78	592.78	592.78	592.78	592.78
23.5000	592.78	592.78	592.78	592.78	592.78
23.6000	592.78	592.78	592.78	592.78	592.78
23.7000	592.78	592.78	592.78	592.78	592.78
23.8000	592.78	592.78	592.78	592.78	592.78
23.9000	592.78	592.78	592.78	592.78	592.78
24.0000	592.78	592.78	592.78	592.78	592.77
24.1000	592.77	592.77	592.77	592.76	592.76

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Time-Elev

Page 10.07

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
-----	-----	-----	-----	-----	-----

.9200	592.26	592.26	592.26	592.26	592.27
1.0200	592.27	592.27	592.27	592.27	592.28
1.1200	592.28	592.28	592.29	592.29	592.29
1.2200	592.30	592.30	592.31	592.31	592.32
1.3200	592.32	592.33	592.33	592.34	592.34
1.4200	592.35	592.36	592.36	592.37	592.38
1.5200	592.38	592.39	592.40	592.41	592.41
1.6200	592.42	592.43	592.44	592.45	592.46
1.7200	592.46	592.47	592.48	592.49	592.50
1.8200	592.51	592.52	592.52	592.53	592.53
1.9200	592.54	592.54	592.55	592.56	592.56
2.0200	592.57	592.57	592.58	592.59	592.59
2.1200	592.60	592.61	592.61	592.62	592.63
2.2200	592.63	592.64	592.65	592.66	592.66
2.3200	592.67	592.68	592.69	592.69	592.70
2.4200	592.71	592.72	592.72	592.73	592.74
2.5200	592.75	592.76	592.76	592.77	592.77
2.6200	592.77	592.78	592.78	592.78	592.78
2.7200	592.78	592.78	592.78	592.78	592.78
2.8200	592.78	592.78	592.78	592.78	592.78
2.9200	592.78	592.78	592.78	592.78	592.78
3.0200	592.78	592.78	592.78	592.78	592.78
3.1200	592.78	592.78	592.78	592.78	592.78
3.2200	592.78	592.78	592.78	592.78	592.78
3.3200	592.78	592.78	592.78	592.78	592.78
3.4200	592.78	592.78	592.78	592.78	592.78
3.5200	592.78	592.78	592.78	592.78	592.78
3.6200	592.78	592.79	592.79	592.79	592.79
3.7200	592.79	592.79	592.79	592.79	592.79
3.8200	592.79	592.79	592.79	592.79	592.79
3.9200	592.79	592.79	592.79	592.79	592.79
4.0200	592.79	592.79	592.79	592.79	592.79
4.1200	592.79	592.79	592.79	592.79	592.79
4.2200	592.79	592.79	592.79	592.79	592.79
4.3200	592.79	592.79	592.79	592.79	592.79
4.4200	592.79	592.79	592.79	592.79	592.79
4.5200	592.79	592.79	592.79	592.79	592.79
4.6200	592.79	592.79	592.79	592.79	592.79
4.7200	592.79	592.79	592.79	592.79	592.79
4.8200	592.79	592.79	592.79	592.79	592.79
4.9200	592.79	592.79	592.79	592.79	592.79
5.0200	592.79	592.79	592.79	592.79	592.79
5.1200	592.79	592.79	592.80	592.80	592.80

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.08

Name.... POND 10      OUT      Tag:      15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
5.2200	592.80	592.80	592.80	592.80	592.80
5.3200	592.80	592.80	592.80	592.80	592.80
5.4200	592.80	592.80	592.80	592.80	592.80
5.5200	592.80	592.80	592.80	592.80	592.80
5.6200	592.80	592.80	592.80	592.80	592.80
5.7200	592.80	592.80	592.80	592.80	592.80
5.8200	592.80	592.80	592.80	592.80	592.80
5.9200	592.80	592.80	592.80	592.80	592.80
6.0200	592.80	592.80	592.80	592.80	592.80
6.1200	592.80	592.80	592.80	592.80	592.80
6.2200	592.80	592.80	592.80	592.80	592.80
6.3200	592.80	592.80	592.80	592.80	592.80
6.4200	592.80	592.80	592.80	592.80	592.80
6.5200	592.80	592.80	592.80	592.80	592.80
6.6200	592.80	592.80	592.81	592.81	592.81
6.7200	592.81	592.81	592.81	592.81	592.81
6.8200	592.81	592.81	592.81	592.81	592.81
6.9200	592.81	592.81	592.81	592.81	592.81
7.0200	592.81	592.81	592.81	592.81	592.81
7.1200	592.81	592.81	592.81	592.81	592.81
7.2200	592.81	592.81	592.81	592.81	592.81
7.3200	592.81	592.81	592.81	592.81	592.81
7.4200	592.81	592.81	592.81	592.81	592.81
7.5200	592.81	592.81	592.81	592.81	592.81
7.6200	592.81	592.81	592.81	592.81	592.81
7.7200	592.81	592.81	592.81	592.81	592.81
7.8200	592.81	592.81	592.81	592.81	592.81
7.9200	592.81	592.81	592.81	592.81	592.81
8.0200	592.81	592.81	592.81	592.81	592.81
8.1200	592.81	592.82	592.82	592.82	592.82
8.2200	592.82	592.82	592.82	592.82	592.82
8.3200	592.82	592.82	592.82	592.82	592.82
8.4200	592.82	592.82	592.82	592.82	592.82
8.5200	592.82	592.83	592.83	592.83	592.83
8.6200	592.83	592.83	592.83	592.83	592.83
8.7200	592.83	592.83	592.83	592.83	592.83
8.8200	592.83	592.83	592.83	592.83	592.83
8.9200	592.84	592.84	592.84	592.84	592.84
9.0200	592.84	592.84	592.84	592.84	592.84
9.1200	592.84	592.84	592.84	592.84	592.84
9.2200	592.84	592.84	592.84	592.84	592.84
9.3200	592.84	592.84	592.84	592.84	592.84
9.4200	592.84	592.84	592.84	592.84	592.84

9.5200 | 592.84 592.84 592.84 592.84 592.84

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PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.09

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

TIME vs. ELEVATION (ft)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
9.6200	592.84	592.84	592.84	592.84	592.85
9.7200	592.85	592.85	592.85	592.85	592.85
9.8200	592.85	592.85	592.85	592.85	592.85
9.9200	592.85	592.85	592.86	592.86	592.86
10.0200	592.86	592.86	592.86	592.86	592.86
10.1200	592.86	592.86	592.87	592.87	592.87
10.2200	592.87	592.87	592.87	592.87	592.87
10.3200	592.87	592.88	592.88	592.88	592.88
10.4200	592.88	592.88	592.88	592.89	592.89
10.5200	592.89	592.89	592.89	592.89	592.89
10.6200	592.90	592.90	592.90	592.90	592.90
10.7200	592.90	592.91	592.91	592.91	592.91
10.8200	592.91	592.92	592.92	592.92	592.92
10.9200	592.93	592.93	592.93	592.93	592.93
11.0200	592.94	592.94	592.94	592.94	592.95
11.1200	592.95	592.95	592.96	592.96	592.97
11.2200	592.97	592.98	592.98	592.99	592.99
11.3200	593.00	593.00	593.01	593.01	593.02
11.4200	593.02	593.02	593.03	593.03	593.04
11.5200	593.04	593.06	593.09	593.13	593.17
11.6200	593.22	593.27	593.34	593.44	593.54
11.7200	593.64	593.75	593.88	594.03	594.19
11.8200	594.36	594.55	594.80	595.11	595.34
11.9200	595.40	595.39	595.37	595.35	595.34
12.0200	595.33	595.30	595.26	595.17	595.02
12.1200	594.84	594.65	594.46	594.27	594.10
12.2200	593.95	593.80	593.68	593.56	593.46
12.3200	593.38	593.31	593.26	593.21	593.17
12.4200	593.14	593.12	593.10	593.08	593.07
12.5200	593.05	593.04	593.03	593.02	593.01
12.6200	593.01	593.00	592.99	592.99	592.98
12.7200	592.98	592.98	592.97	592.97	592.97
12.8200	592.96	592.96	592.96	592.95	592.95
12.9200	592.95	592.95	592.94	592.94	592.94
13.0200	592.94	592.93	592.93	592.93	592.93

13.1200	592.92	592.92	592.92	592.92	592.92
13.2200	592.91	592.91	592.91	592.91	592.91
13.3200	592.91	592.91	592.90	592.90	592.90
13.4200	592.90	592.90	592.90	592.89	592.89
13.5200	592.89	592.89	592.89	592.89	592.89
13.6200	592.89	592.88	592.88	592.88	592.88
13.7200	592.88	592.88	592.88	592.88	592.87
13.8200	592.87	592.87	592.87	592.87	592.87
13.9200	592.87	592.87	592.87	592.87	592.86

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.10

Name.... POND 10      OUT      Tag:      15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      15

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
14.0200	592.86	592.86	592.86	592.86	592.86
14.1200	592.86	592.86	592.86	592.86	592.86
14.2200	592.86	592.86	592.86	592.86	592.85
14.3200	592.85	592.85	592.85	592.85	592.85
14.4200	592.85	592.85	592.85	592.85	592.85
14.5200	592.85	592.85	592.85	592.85	592.85
14.6200	592.85	592.85	592.85	592.85	592.85
14.7200	592.85	592.85	592.85	592.85	592.85
14.8200	592.85	592.84	592.84	592.84	592.84
14.9200	592.84	592.84	592.84	592.84	592.84
15.0200	592.84	592.84	592.84	592.84	592.84
15.1200	592.84	592.84	592.84	592.84	592.84
15.2200	592.84	592.84	592.84	592.84	592.84
15.3200	592.84	592.84	592.84	592.83	592.83
15.4200	592.83	592.83	592.83	592.83	592.83
15.5200	592.83	592.83	592.83	592.83	592.83
15.6200	592.83	592.83	592.83	592.83	592.83
15.7200	592.83	592.83	592.83	592.83	592.83
15.8200	592.83	592.83	592.83	592.83	592.83
15.9200	592.82	592.82	592.82	592.82	592.82
16.0200	592.82	592.82	592.82	592.82	592.82
16.1200	592.82	592.82	592.82	592.82	592.82
16.2200	592.82	592.82	592.82	592.82	592.82
16.3200	592.82	592.82	592.82	592.82	592.82
16.4200	592.82	592.82	592.82	592.82	592.82
16.5200	592.82	592.82	592.82	592.82	592.82
16.6200	592.82	592.82	592.82	592.82	592.82

16.7200	592.82	592.82	592.82	592.82	592.82
16.8200	592.82	592.82	592.82	592.82	592.82
16.9200	592.82	592.82	592.82	592.82	592.82
17.0200	592.81	592.81	592.81	592.81	592.81
17.1200	592.81	592.81	592.81	592.81	592.81
17.2200	592.81	592.81	592.81	592.81	592.81
17.3200	592.81	592.81	592.81	592.81	592.81
17.4200	592.81	592.81	592.81	592.81	592.81
17.5200	592.81	592.81	592.81	592.81	592.81
17.6200	592.81	592.81	592.81	592.81	592.81
17.7200	592.81	592.81	592.81	592.81	592.81
17.8200	592.81	592.81	592.81	592.81	592.81
17.9200	592.81	592.81	592.81	592.81	592.81
18.0200	592.81	592.81	592.81	592.81	592.81
18.1200	592.81	592.81	592.81	592.81	592.81
18.2200	592.81	592.81	592.81	592.81	592.81
18.3200	592.81	592.81	592.81	592.81	592.81

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.11

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
18.4200	592.81	592.81	592.81	592.81	592.81
18.5200	592.81	592.80	592.80	592.80	592.80
18.6200	592.80	592.80	592.80	592.80	592.80
18.7200	592.80	592.80	592.80	592.80	592.80
18.8200	592.80	592.80	592.80	592.80	592.80
18.9200	592.80	592.80	592.80	592.80	592.80
19.0200	592.80	592.80	592.80	592.80	592.80
19.1200	592.80	592.80	592.80	592.80	592.80
19.2200	592.80	592.80	592.80	592.80	592.80
19.3200	592.80	592.80	592.80	592.80	592.80
19.4200	592.80	592.80	592.80	592.80	592.80
19.5200	592.80	592.80	592.80	592.80	592.80
19.6200	592.80	592.80	592.80	592.80	592.80
19.7200	592.80	592.80	592.80	592.80	592.80
19.8200	592.80	592.80	592.80	592.80	592.80
19.9200	592.80	592.80	592.80	592.80	592.80
20.0200	592.80	592.80	592.79	592.79	592.79
20.1200	592.79	592.79	592.79	592.79	592.79
20.2200	592.79	592.79	592.79	592.79	592.79

20.3200	592.79	592.79	592.79	592.79	592.79
20.4200	592.79	592.79	592.79	592.79	592.79
20.5200	592.79	592.79	592.79	592.79	592.79
20.6200	592.79	592.79	592.79	592.79	592.79
20.7200	592.79	592.79	592.79	592.79	592.79
20.8200	592.79	592.79	592.79	592.79	592.79
20.9200	592.79	592.79	592.79	592.79	592.79
21.0200	592.79	592.79	592.79	592.79	592.79
21.1200	592.79	592.79	592.79	592.79	592.79
21.2200	592.79	592.79	592.79	592.79	592.79
21.3200	592.79	592.79	592.79	592.79	592.79
21.4200	592.79	592.79	592.79	592.79	592.79
21.5200	592.79	592.79	592.79	592.79	592.79
21.6200	592.79	592.79	592.79	592.79	592.79
21.7200	592.79	592.79	592.79	592.79	592.79
21.8200	592.79	592.79	592.79	592.79	592.79
21.9200	592.79	592.79	592.79	592.79	592.79
22.0200	592.79	592.79	592.79	592.79	592.79
22.1200	592.79	592.79	592.79	592.79	592.79
22.2200	592.79	592.79	592.79	592.79	592.79
22.3200	592.79	592.79	592.79	592.79	592.79
22.4200	592.79	592.79	592.79	592.79	592.79
22.5200	592.79	592.79	592.79	592.79	592.79
22.6200	592.79	592.79	592.79	592.79	592.79
22.7200	592.79	592.79	592.79	592.79	592.79

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.12

Name.... POND 10      OUT      Tag:      15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      15

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
22.8200	592.79	592.79	592.79	592.79	592.79
22.9200	592.79	592.79	592.79	592.79	592.79
23.0200	592.79	592.79	592.79	592.79	592.79
23.1200	592.79	592.79	592.79	592.79	592.79
23.2200	592.79	592.79	592.79	592.79	592.79
23.3200	592.79	592.79	592.79	592.79	592.79
23.4200	592.79	592.79	592.79	592.79	592.79
23.5200	592.79	592.79	592.79	592.79	592.79
23.6200	592.79	592.79	592.79	592.79	592.79
23.7200	592.79	592.79	592.79	592.79	592.79
23.8200	592.79	592.79	592.79	592.79	592.79



23.9200	592.79	592.79	592.79	592.79	592.79
24.0200	592.79	592.79	592.78	592.78	592.78
24.1200	592.77	592.77	592.77	592.76	592.76

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.13

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
.8400	592.26	592.26	592.26	592.26	592.27
.9400	592.27	592.27	592.27	592.28	592.28
1.0400	592.28	592.29	592.29	592.30	592.30
1.1400	592.31	592.31	592.32	592.32	592.33
1.2400	592.33	592.34	592.35	592.35	592.36
1.3400	592.37	592.38	592.38	592.39	592.40
1.4400	592.41	592.42	592.43	592.43	592.44
1.5400	592.45	592.46	592.47	592.48	592.49
1.6400	592.50	592.51	592.52	592.52	592.53
1.7400	592.54	592.54	592.55	592.56	592.56
1.8400	592.57	592.58	592.58	592.59	592.60
1.9400	592.60	592.61	592.62	592.63	592.63
2.0400	592.64	592.65	592.66	592.67	592.67
2.1400	592.68	592.69	592.70	592.71	592.72
2.2400	592.73	592.73	592.74	592.75	592.76
2.3400	592.77	592.77	592.77	592.78	592.78
2.4400	592.78	592.78	592.78	592.78	592.78
2.5400	592.78	592.78	592.78	592.78	592.78
2.6400	592.78	592.78	592.78	592.78	592.78
2.7400	592.78	592.78	592.78	592.78	592.78
2.8400	592.78	592.78	592.78	592.78	592.78
2.9400	592.78	592.78	592.78	592.78	592.79
3.0400	592.79	592.79	592.79	592.79	592.79
3.1400	592.79	592.79	592.79	592.79	592.79
3.2400	592.79	592.79	592.79	592.79	592.79
3.3400	592.79	592.79	592.79	592.79	592.79
3.4400	592.79	592.79	592.79	592.79	592.79
3.5400	592.79	592.79	592.79	592.79	592.79
3.6400	592.79	592.79	592.79	592.79	592.79
3.7400	592.79	592.79	592.79	592.79	592.79
3.8400	592.79	592.79	592.79	592.79	592.79
3.9400	592.79	592.79	592.79	592.79	592.79
4.0400	592.79	592.79	592.79	592.79	592.79

4.1400	592.79	592.79	592.79	592.79	592.79
4.2400	592.79	592.79	592.79	592.79	592.79
4.3400	592.79	592.79	592.79	592.79	592.79
4.4400	592.79	592.79	592.80	592.80	592.80
4.5400	592.80	592.80	592.80	592.80	592.80
4.6400	592.80	592.80	592.80	592.80	592.80
4.7400	592.80	592.80	592.80	592.80	592.80
4.8400	592.80	592.80	592.80	592.80	592.80
4.9400	592.80	592.80	592.80	592.80	592.80
5.0400	592.80	592.80	592.80	592.80	592.80

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.14

Name.... POND 10      OUT      Tag:      25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      25

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
5.1400	592.80	592.80	592.80	592.80	592.80
5.2400	592.80	592.80	592.80	592.80	592.80
5.3400	592.80	592.80	592.80	592.80	592.80
5.4400	592.80	592.80	592.80	592.80	592.80
5.5400	592.80	592.80	592.80	592.80	592.80
5.6400	592.80	592.80	592.80	592.80	592.80
5.7400	592.80	592.80	592.80	592.80	592.81
5.8400	592.81	592.81	592.81	592.81	592.81
5.9400	592.81	592.81	592.81	592.81	592.81
6.0400	592.81	592.81	592.81	592.81	592.81
6.1400	592.81	592.81	592.81	592.81	592.81
6.2400	592.81	592.81	592.81	592.81	592.81
6.3400	592.81	592.81	592.81	592.81	592.81
6.4400	592.81	592.81	592.81	592.81	592.81
6.5400	592.81	592.81	592.81	592.81	592.81
6.6400	592.81	592.81	592.81	592.81	592.81
6.7400	592.81	592.81	592.81	592.81	592.81
6.8400	592.81	592.81	592.81	592.81	592.81
6.9400	592.81	592.81	592.81	592.81	592.81
7.0400	592.81	592.81	592.81	592.81	592.81
7.1400	592.81	592.81	592.81	592.81	592.82
7.2400	592.82	592.82	592.82	592.82	592.82
7.3400	592.82	592.82	592.82	592.82	592.82
7.4400	592.82	592.82	592.82	592.82	592.82
7.5400	592.82	592.82	592.82	592.82	592.82
7.6400	592.82	592.82	592.82	592.82	592.82

7.7400	592.82	592.82	592.82	592.82	592.82
7.8400	592.82	592.82	592.82	592.82	592.82
7.9400	592.82	592.82	592.82	592.82	592.82
8.0400	592.82	592.82	592.82	592.82	592.82
8.1400	592.82	592.82	592.82	592.82	592.82
8.2400	592.82	592.83	592.83	592.83	592.83
8.3400	592.83	592.83	592.83	592.83	592.83
8.4400	592.83	592.83	592.83	592.83	592.83
8.5400	592.83	592.83	592.83	592.84	592.84
8.6400	592.84	592.84	592.84	592.84	592.84
8.7400	592.84	592.84	592.84	592.84	592.84
8.8400	592.84	592.84	592.84	592.84	592.84
8.9400	592.85	592.85	592.85	592.85	592.85
9.0400	592.85	592.85	592.85	592.85	592.85
9.1400	592.85	592.85	592.85	592.85	592.85
9.2400	592.85	592.85	592.85	592.85	592.85
9.3400	592.85	592.85	592.85	592.85	592.85
9.4400	592.85	592.85	592.85	592.85	592.85

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.15

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
9.5400	592.85	592.85	592.85	592.85	592.85
9.6400	592.85	592.85	592.85	592.86	592.86
9.7400	592.86	592.86	592.86	592.86	592.86
9.8400	592.86	592.86	592.86	592.86	592.87
9.9400	592.87	592.87	592.87	592.87	592.87
10.0400	592.87	592.87	592.87	592.87	592.88
10.1400	592.88	592.88	592.88	592.88	592.88
10.2400	592.88	592.88	592.89	592.89	592.89
10.3400	592.89	592.89	592.89	592.89	592.90
10.4400	592.90	592.90	592.90	592.90	592.90
10.5400	592.90	592.91	592.91	592.91	592.91
10.6400	592.91	592.92	592.92	592.92	592.92
10.7400	592.92	592.93	592.93	592.93	592.93
10.8400	592.94	592.94	592.94	592.94	592.94
10.9400	592.95	592.95	592.95	592.95	592.96
11.0400	592.96	592.96	592.97	592.97	592.97
11.1400	592.98	592.98	592.99	592.99	593.00
11.2400	593.00	593.01	593.01	593.02	593.02

11.3400	593.03	593.03	593.04	593.04	593.05
11.4400	593.05	593.06	593.06	593.07	593.07
11.5400	593.09	593.12	593.17	593.22	593.27
11.6400	593.32	593.41	593.52	593.63	593.75
11.7400	593.87	594.02	594.20	594.38	594.57
11.8400	594.79	595.08	595.33	595.42	595.42
11.9400	595.42	595.40	595.38	595.36	595.35
12.0400	595.32	595.28	595.20	595.07	594.90
12.1400	594.72	594.53	594.36	594.19	594.03
12.2400	593.89	593.76	593.65	593.55	593.46
12.3400	593.39	593.32	593.27	593.23	593.19
12.4400	593.16	593.14	593.12	593.10	593.08
12.5400	593.07	593.06	593.05	593.04	593.03
12.6400	593.02	593.02	593.01	593.01	593.00
12.7400	593.00	593.00	592.99	592.99	592.99
12.8400	592.98	592.98	592.98	592.97	592.97
12.9400	592.97	592.96	592.96	592.96	592.96
13.0400	592.95	592.95	592.95	592.94	592.94
13.1400	592.94	592.94	592.94	592.93	592.93
13.2400	592.93	592.93	592.93	592.93	592.92
13.3400	592.92	592.92	592.92	592.92	592.92
13.4400	592.91	592.91	592.91	592.91	592.91
13.5400	592.91	592.90	592.90	592.90	592.90
13.6400	592.90	592.90	592.90	592.89	592.89
13.7400	592.89	592.89	592.89	592.89	592.89
13.8400	592.89	592.88	592.88	592.88	592.88

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.16

Name.... POND 10      OUT      Tag:      25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      25

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
13.9400	592.88	592.88	592.88	592.88	592.88
14.0400	592.87	592.87	592.87	592.87	592.87
14.1400	592.87	592.87	592.87	592.87	592.87
14.2400	592.87	592.87	592.87	592.87	592.87
14.3400	592.86	592.86	592.86	592.86	592.86
14.4400	592.86	592.86	592.86	592.86	592.86
14.5400	592.86	592.86	592.86	592.86	592.86
14.6400	592.86	592.86	592.86	592.86	592.86
14.7400	592.86	592.86	592.86	592.86	592.85
14.8400	592.85	592.85	592.85	592.85	592.85

14.9400	592.85	592.85	592.85	592.85	592.85
15.0400	592.85	592.85	592.85	592.85	592.85
15.1400	592.85	592.85	592.85	592.85	592.85
15.2400	592.85	592.85	592.85	592.84	592.84
15.3400	592.84	592.84	592.84	592.84	592.84
15.4400	592.84	592.84	592.84	592.84	592.84
15.5400	592.84	592.84	592.84	592.84	592.84
15.6400	592.84	592.84	592.84	592.84	592.84
15.7400	592.84	592.84	592.83	592.83	592.83
15.8400	592.83	592.83	592.83	592.83	592.83
15.9400	592.83	592.83	592.83	592.83	592.83
16.0400	592.83	592.83	592.83	592.83	592.83
16.1400	592.83	592.83	592.83	592.83	592.83
16.2400	592.83	592.83	592.83	592.83	592.83
16.3400	592.83	592.83	592.83	592.83	592.83
16.4400	592.83	592.83	592.83	592.83	592.83
16.5400	592.82	592.82	592.82	592.82	592.82
16.6400	592.82	592.82	592.82	592.82	592.82
16.7400	592.82	592.82	592.82	592.82	592.82
16.8400	592.82	592.82	592.82	592.82	592.82
16.9400	592.82	592.82	592.82	592.82	592.82
17.0400	592.82	592.82	592.82	592.82	592.82
17.1400	592.82	592.82	592.82	592.82	592.82
17.2400	592.82	592.82	592.82	592.82	592.82
17.3400	592.82	592.82	592.82	592.82	592.82
17.4400	592.82	592.82	592.82	592.82	592.82
17.5400	592.82	592.82	592.82	592.82	592.82
17.6400	592.82	592.82	592.82	592.82	592.82
17.7400	592.82	592.82	592.82	592.82	592.82
17.8400	592.82	592.82	592.81	592.81	592.81
17.9400	592.81	592.81	592.81	592.81	592.81
18.0400	592.81	592.81	592.81	592.81	592.81
18.1400	592.81	592.81	592.81	592.81	592.81
18.2400	592.81	592.81	592.81	592.81	592.81

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.17

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
18.3400	592.81	592.81	592.81	592.81	592.81
18.4400	592.81	592.81	592.81	592.81	592.81

18.5400	592.81	592.81	592.81	592.81	592.81
18.6400	592.81	592.81	592.81	592.81	592.81
18.7400	592.81	592.81	592.81	592.81	592.81
18.8400	592.81	592.81	592.81	592.81	592.81
18.9400	592.81	592.81	592.81	592.81	592.81
19.0400	592.81	592.81	592.81	592.81	592.81
19.1400	592.81	592.81	592.81	592.81	592.81
19.2400	592.80	592.80	592.80	592.80	592.80
19.3400	592.80	592.80	592.80	592.80	592.80
19.4400	592.80	592.80	592.80	592.80	592.80
19.5400	592.80	592.80	592.80	592.80	592.80
19.6400	592.80	592.80	592.80	592.80	592.80
19.7400	592.80	592.80	592.80	592.80	592.80
19.8400	592.80	592.80	592.80	592.80	592.80
19.9400	592.80	592.80	592.80	592.80	592.80
20.0400	592.80	592.80	592.80	592.80	592.80
20.1400	592.80	592.80	592.80	592.80	592.80
20.2400	592.80	592.80	592.80	592.80	592.80
20.3400	592.80	592.80	592.80	592.80	592.80
20.4400	592.80	592.80	592.80	592.80	592.80
20.5400	592.80	592.80	592.80	592.80	592.80
20.6400	592.80	592.80	592.80	592.80	592.80
20.7400	592.80	592.80	592.80	592.80	592.80
20.8400	592.80	592.80	592.80	592.80	592.80
20.9400	592.80	592.80	592.80	592.80	592.80
21.0400	592.80	592.80	592.80	592.80	592.80
21.1400	592.80	592.80	592.80	592.80	592.80
21.2400	592.80	592.80	592.80	592.80	592.80
21.3400	592.80	592.80	592.80	592.80	592.80
21.4400	592.80	592.80	592.80	592.80	592.80
21.5400	592.80	592.80	592.80	592.80	592.80
21.6400	592.80	592.80	592.80	592.80	592.80
21.7400	592.80	592.80	592.80	592.80	592.80
21.8400	592.80	592.80	592.80	592.80	592.80
21.9400	592.80	592.80	592.80	592.80	592.80
22.0400	592.80	592.80	592.80	592.80	592.80
22.1400	592.80	592.80	592.80	592.80	592.80
22.2400	592.80	592.80	592.80	592.80	592.80
22.3400	592.80	592.80	592.80	592.80	592.80
22.4400	592.79	592.79	592.79	592.79	592.79
22.5400	592.79	592.79	592.79	592.79	592.79
22.6400	592.79	592.79	592.79	592.79	592.79

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.18

Name.... POND 10      OUT      Tag:      25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      25

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs Time on left represents time for first value in each row.				
22.7400	592.79	592.79	592.79	592.79	592.79
22.8400	592.79	592.79	592.79	592.79	592.79
22.9400	592.79	592.79	592.79	592.79	592.79
23.0400	592.79	592.79	592.79	592.79	592.79
23.1400	592.79	592.79	592.79	592.79	592.79
23.2400	592.79	592.79	592.79	592.79	592.79
23.3400	592.79	592.79	592.79	592.79	592.79
23.4400	592.79	592.79	592.79	592.79	592.79
23.5400	592.79	592.79	592.79	592.79	592.79
23.6400	592.79	592.79	592.79	592.79	592.79
23.7400	592.79	592.79	592.79	592.79	592.79
23.8400	592.79	592.79	592.79	592.79	592.79
23.9400	592.79	592.79	592.79	592.79	592.79
24.0400	592.79	592.79	592.78	592.78	592.77
24.1400	592.77	592.77	592.77	592.76	

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.19

Name.... POND 10      OUT    Tag:    50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr    Tag:    50

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs Time on left represents time for first value in each row.				
.7200	592.26	592.26	592.26	592.26	592.27
.8200	592.27	592.27	592.27	592.28	592.28
.9200	592.28	592.29	592.29	592.30	592.30
1.0200	592.31	592.32	592.32	592.33	592.33
1.1200	592.34	592.35	592.36	592.36	592.37
1.2200	592.38	592.39	592.40	592.41	592.42
1.3200	592.43	592.44	592.45	592.46	592.47
1.4200	592.48	592.49	592.50	592.51	592.52
1.5200	592.53	592.53	592.54	592.55	592.56
1.6200	592.56	592.57	592.58	592.59	592.59
1.7200	592.60	592.61	592.62	592.63	592.64
1.8200	592.65	592.65	592.66	592.67	592.68
1.9200	592.69	592.70	592.71	592.72	592.73
2.0200	592.74	592.75	592.76	592.77	592.77
2.1200	592.77	592.78	592.78	592.78	592.78

2.2200	592.78	592.78	592.78	592.78	592.78
2.3200	592.78	592.78	592.78	592.78	592.79
2.4200	592.79	592.79	592.79	592.79	592.79
2.5200	592.79	592.79	592.79	592.79	592.79
2.6200	592.79	592.79	592.79	592.79	592.79
2.7200	592.79	592.79	592.79	592.79	592.79
2.8200	592.79	592.79	592.79	592.79	592.79
2.9200	592.79	592.79	592.79	592.79	592.79
3.0200	592.79	592.79	592.79	592.79	592.79
3.1200	592.79	592.79	592.79	592.79	592.79
3.2200	592.79	592.79	592.79	592.79	592.79
3.3200	592.79	592.79	592.79	592.79	592.79
3.4200	592.79	592.79	592.79	592.79	592.79
3.5200	592.79	592.79	592.79	592.79	592.79
3.6200	592.80	592.80	592.80	592.80	592.80
3.7200	592.80	592.80	592.80	592.80	592.80
3.8200	592.80	592.80	592.80	592.80	592.80
3.9200	592.80	592.80	592.80	592.80	592.80
4.0200	592.80	592.80	592.80	592.80	592.80
4.1200	592.80	592.80	592.80	592.80	592.80
4.2200	592.80	592.80	592.80	592.80	592.80
4.3200	592.80	592.80	592.80	592.80	592.80
4.4200	592.80	592.80	592.80	592.80	592.80
4.5200	592.80	592.80	592.80	592.80	592.80
4.6200	592.80	592.80	592.80	592.80	592.80
4.7200	592.80	592.80	592.80	592.80	592.80
4.8200	592.80	592.80	592.80	592.80	592.81
4.9200	592.81	592.81	592.81	592.81	592.81

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.20

Name.... POND 10      OUT    Tag:    50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr    Tag:    50

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
5.0200	592.81	592.81	592.81	592.81	592.81
5.1200	592.81	592.81	592.81	592.81	592.81
5.2200	592.81	592.81	592.81	592.81	592.81
5.3200	592.81	592.81	592.81	592.81	592.81
5.4200	592.81	592.81	592.81	592.81	592.81
5.5200	592.81	592.81	592.81	592.81	592.81
5.6200	592.81	592.81	592.81	592.81	592.81
5.7200	592.81	592.81	592.81	592.81	592.81



5.8200	592.81	592.81	592.81	592.81	592.81
5.9200	592.81	592.81	592.81	592.81	592.81
6.0200	592.81	592.81	592.81	592.81	592.81
6.1200	592.82	592.82	592.82	592.82	592.82
6.2200	592.82	592.82	592.82	592.82	592.82
6.3200	592.82	592.82	592.82	592.82	592.82
6.4200	592.82	592.82	592.82	592.82	592.82
6.5200	592.82	592.82	592.82	592.82	592.82
6.6200	592.82	592.82	592.82	592.82	592.82
6.7200	592.82	592.82	592.82	592.82	592.82
6.8200	592.82	592.82	592.82	592.82	592.82
6.9200	592.82	592.82	592.82	592.82	592.82
7.0200	592.82	592.82	592.82	592.82	592.82
7.1200	592.82	592.82	592.82	592.82	592.82
7.2200	592.82	592.82	592.82	592.82	592.82
7.3200	592.82	592.82	592.82	592.82	592.83
7.4200	592.83	592.83	592.83	592.83	592.83
7.5200	592.83	592.83	592.83	592.83	592.83
7.6200	592.83	592.83	592.83	592.83	592.83
7.7200	592.83	592.83	592.83	592.83	592.83
7.8200	592.83	592.83	592.83	592.83	592.83
7.9200	592.83	592.83	592.83	592.83	592.83
8.0200	592.83	592.83	592.83	592.83	592.83
8.1200	592.83	592.83	592.83	592.83	592.83
8.2200	592.83	592.83	592.84	592.84	592.84
8.3200	592.84	592.84	592.84	592.84	592.84
8.4200	592.84	592.84	592.84	592.84	592.84
8.5200	592.84	592.84	592.85	592.85	592.85
8.6200	592.85	592.85	592.85	592.85	592.85
8.7200	592.85	592.85	592.85	592.85	592.85
8.8200	592.85	592.85	592.86	592.86	592.86
8.9200	592.86	592.86	592.86	592.86	592.86
9.0200	592.86	592.86	592.86	592.86	592.86
9.1200	592.86	592.86	592.86	592.86	592.86
9.2200	592.86	592.86	592.86	592.86	592.86
9.3200	592.86	592.86	592.86	592.86	592.86

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.21

Name.... POND 10      OUT      Tag:      50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      50

TIME vs. ELEVATION (ft)

Time	Output Time increment = .0200 hrs
hrs	Time on left represents time for first value in each row.

-----

9.4200	592.86	592.86	592.86	592.86	592.86
9.5200	592.86	592.86	592.86	592.87	592.87
9.6200	592.87	592.87	592.87	592.87	592.87
9.7200	592.87	592.87	592.87	592.87	592.87
9.8200	592.88	592.88	592.88	592.88	592.88
9.9200	592.88	592.88	592.88	592.88	592.88
10.0200	592.89	592.89	592.89	592.89	592.89
10.1200	592.89	592.89	592.89	592.90	592.90
10.2200	592.90	592.90	592.90	592.90	592.91
10.3200	592.91	592.91	592.91	592.91	592.91
10.4200	592.92	592.92	592.92	592.92	592.92
10.5200	592.92	592.93	592.93	592.93	592.93
10.6200	592.93	592.94	592.94	592.94	592.94
10.7200	592.95	592.95	592.95	592.95	592.96
10.8200	592.96	592.96	592.96	592.97	592.97
10.9200	592.97	592.97	592.98	592.98	592.98
11.0200	592.99	592.99	592.99	593.00	593.00
11.1200	593.00	593.01	593.01	593.02	593.02
11.2200	593.03	593.03	593.04	593.04	593.05
11.3200	593.06	593.06	593.07	593.07	593.08
11.4200	593.08	593.09	593.09	593.10	593.11
11.5200	593.11	593.13	593.17	593.22	593.28
11.6200	593.33	593.40	593.51	593.63	593.76
11.7200	593.89	594.04	594.22	594.42	594.64
11.8200	594.86	595.12	595.35	595.43	595.45
11.9200	595.46	595.46	595.44	595.41	595.40
12.0200	595.38	595.35	595.30	595.23	595.13
12.1200	594.98	594.81	594.64	594.47	594.31
12.2200	594.15	594.02	593.89	593.77	593.66
12.3200	593.57	593.49	593.42	593.36	593.31
12.4200	593.27	593.23	593.20	593.17	593.15
12.5200	593.13	593.11	593.10	593.09	593.07
12.6200	593.07	593.06	593.05	593.04	593.04
12.7200	593.04	593.03	593.03	593.02	593.02
12.8200	593.02	593.01	593.01	593.01	593.00
12.9200	593.00	593.00	592.99	592.99	592.99
13.0200	592.98	592.98	592.98	592.97	592.97
13.1200	592.97	592.97	592.96	592.96	592.96
13.2200	592.96	592.95	592.95	592.95	592.95
13.3200	592.95	592.94	592.94	592.94	592.94
13.4200	592.94	592.94	592.93	592.93	592.93
13.5200	592.93	592.93	592.92	592.92	592.92
13.6200	592.92	592.92	592.92	592.91	592.91
13.7200	592.91	592.91	592.91	592.91	592.91

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Name.... POND 10      OUT

Tag:      50

Page 10.22

Event: 50 yr

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
13.8200	592.90	592.90	592.90	592.90	592.90
13.9200	592.90	592.90	592.90	592.89	592.89
14.0200	592.89	592.89	592.89	592.89	592.89
14.1200	592.89	592.89	592.88	592.88	592.88
14.2200	592.88	592.88	592.88	592.88	592.88
14.3200	592.88	592.88	592.88	592.88	592.88
14.4200	592.88	592.88	592.88	592.88	592.88
14.5200	592.88	592.87	592.87	592.87	592.87
14.6200	592.87	592.87	592.87	592.87	592.87
14.7200	592.87	592.87	592.87	592.87	592.87
14.8200	592.87	592.87	592.87	592.87	592.87
14.9200	592.87	592.87	592.86	592.86	592.86
15.0200	592.86	592.86	592.86	592.86	592.86
15.1200	592.86	592.86	592.86	592.86	592.86
15.2200	592.86	592.86	592.86	592.86	592.86
15.3200	592.86	592.86	592.86	592.85	592.85
15.4200	592.85	592.85	592.85	592.85	592.85
15.5200	592.85	592.85	592.85	592.85	592.85
15.6200	592.85	592.85	592.85	592.85	592.85
15.7200	592.85	592.85	592.85	592.85	592.84
15.8200	592.84	592.84	592.84	592.84	592.84
15.9200	592.84	592.84	592.84	592.84	592.84
16.0200	592.84	592.84	592.84	592.84	592.84
16.1200	592.84	592.84	592.84	592.84	592.84
16.2200	592.84	592.84	592.84	592.84	592.84
16.3200	592.84	592.84	592.84	592.84	592.84
16.4200	592.83	592.83	592.83	592.83	592.83
16.5200	592.83	592.83	592.83	592.83	592.83
16.6200	592.83	592.83	592.83	592.83	592.83
16.7200	592.83	592.83	592.83	592.83	592.83
16.8200	592.83	592.83	592.83	592.83	592.83
16.9200	592.83	592.83	592.83	592.83	592.83
17.0200	592.83	592.83	592.83	592.83	592.83
17.1200	592.83	592.83	592.83	592.83	592.83
17.2200	592.83	592.83	592.83	592.83	592.83
17.3200	592.83	592.83	592.83	592.83	592.83
17.4200	592.83	592.83	592.83	592.83	592.83
17.5200	592.83	592.83	592.83	592.83	592.82
17.6200	592.82	592.82	592.82	592.82	592.82
17.7200	592.82	592.82	592.82	592.82	592.82
17.8200	592.82	592.82	592.82	592.82	592.82
17.9200	592.82	592.82	592.82	592.82	592.82

18.0200	592.82	592.82	592.82	592.82	592.82
18.1200	592.82	592.82	592.82	592.82	592.82

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.23

Name.... POND 10 OUT Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

TIME vs. ELEVATION (ft)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
18.2200	592.82	592.82	592.82	592.82	592.82
18.3200	592.82	592.82	592.82	592.82	592.82
18.4200	592.82	592.82	592.82	592.82	592.82
18.5200	592.82	592.82	592.82	592.82	592.82
18.6200	592.82	592.82	592.82	592.82	592.82
18.7200	592.82	592.82	592.82	592.82	592.81
18.8200	592.81	592.81	592.81	592.81	592.81
18.9200	592.81	592.81	592.81	592.81	592.81
19.0200	592.81	592.81	592.81	592.81	592.81
19.1200	592.81	592.81	592.81	592.81	592.81
19.2200	592.81	592.81	592.81	592.81	592.81
19.3200	592.81	592.81	592.81	592.81	592.81
19.4200	592.81	592.81	592.81	592.81	592.81
19.5200	592.81	592.81	592.81	592.81	592.81
19.6200	592.81	592.81	592.81	592.81	592.81
19.7200	592.81	592.81	592.81	592.81	592.81
19.8200	592.81	592.81	592.81	592.81	592.81
19.9200	592.81	592.81	592.81	592.80	592.80
20.0200	592.80	592.80	592.80	592.80	592.80
20.1200	592.80	592.80	592.80	592.80	592.80
20.2200	592.80	592.80	592.80	592.80	592.80
20.3200	592.80	592.80	592.80	592.80	592.80
20.4200	592.80	592.80	592.80	592.80	592.80
20.5200	592.80	592.80	592.80	592.80	592.80
20.6200	592.80	592.80	592.80	592.80	592.80
20.7200	592.80	592.80	592.80	592.80	592.80
20.8200	592.80	592.80	592.80	592.80	592.80
20.9200	592.80	592.80	592.80	592.80	592.80
21.0200	592.80	592.80	592.80	592.80	592.80
21.1200	592.80	592.80	592.80	592.80	592.80
21.2200	592.80	592.80	592.80	592.80	592.80
21.3200	592.80	592.80	592.80	592.80	592.80
21.4200	592.80	592.80	592.80	592.80	592.80
21.5200	592.80	592.80	592.80	592.80	592.80

21.6200	592.80	592.80	592.80	592.80	592.80
21.7200	592.80	592.80	592.80	592.80	592.80
21.8200	592.80	592.80	592.80	592.80	592.80
21.9200	592.80	592.80	592.80	592.80	592.80
22.0200	592.80	592.80	592.80	592.80	592.80
22.1200	592.80	592.80	592.80	592.80	592.80
22.2200	592.80	592.80	592.80	592.80	592.80
22.3200	592.80	592.80	592.80	592.80	592.80
22.4200	592.80	592.80	592.80	592.80	592.80
22.5200	592.80	592.80	592.80	592.80	592.80

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.24

Name.... POND 10      OUT    Tag:    50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr    Tag:    50

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
22.6200	592.80	592.80	592.80	592.80	592.80
22.7200	592.80	592.80	592.80	592.80	592.80
22.8200	592.80	592.80	592.80	592.80	592.80
22.9200	592.80	592.80	592.80	592.80	592.80
23.0200	592.80	592.80	592.80	592.80	592.80
23.1200	592.80	592.80	592.80	592.80	592.80
23.2200	592.80	592.80	592.80	592.80	592.80
23.3200	592.80	592.80	592.80	592.80	592.80
23.4200	592.80	592.80	592.80	592.80	592.80
23.5200	592.80	592.80	592.80	592.80	592.80
23.6200	592.80	592.80	592.80	592.80	592.80
23.7200	592.80	592.80	592.80	592.80	592.80
23.8200	592.80	592.80	592.80	592.80	592.80
23.9200	592.80	592.80	592.80	592.80	592.80
24.0200	592.80	592.80	592.79	592.79	592.78
24.1200	592.78	592.77	592.77	592.77	592.76
24.2200	592.76				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.25

Name.... POND 10      OUT    Tag:    100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr    Tag:    100

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
.6400	592.26	592.26	592.26	592.26	592.27
.7400	592.27	592.27	592.28	592.28	592.28
.8400	592.29	592.29	592.30	592.31	592.31
.9400	592.32	592.33	592.33	592.34	592.35
1.0400	592.36	592.37	592.38	592.39	592.40
1.1400	592.41	592.42	592.43	592.44	592.45
1.2400	592.46	592.47	592.49	592.50	592.51
1.3400	592.52	592.53	592.53	592.54	592.55
1.4400	592.56	592.57	592.58	592.58	592.59
1.5400	592.60	592.61	592.62	592.63	592.64
1.6400	592.65	592.66	592.67	592.68	592.69
1.7400	592.70	592.71	592.72	592.73	592.74
1.8400	592.75	592.76	592.77	592.77	592.78
1.9400	592.78	592.78	592.78	592.78	592.78
2.0400	592.79	592.79	592.79	592.79	592.79
2.1400	592.79	592.79	592.79	592.79	592.79
2.2400	592.79	592.79	592.79	592.79	592.79
2.3400	592.79	592.79	592.79	592.79	592.79
2.4400	592.79	592.79	592.79	592.79	592.79
2.5400	592.79	592.79	592.79	592.79	592.79
2.6400	592.79	592.79	592.79	592.79	592.79
2.7400	592.79	592.79	592.79	592.79	592.79
2.8400	592.79	592.80	592.80	592.80	592.80
2.9400	592.80	592.80	592.80	592.80	592.80
3.0400	592.80	592.80	592.80	592.80	592.80
3.1400	592.80	592.80	592.80	592.80	592.80
3.2400	592.80	592.80	592.80	592.80	592.80
3.3400	592.80	592.80	592.80	592.80	592.80
3.4400	592.80	592.80	592.80	592.80	592.80
3.5400	592.80	592.80	592.80	592.80	592.80
3.6400	592.80	592.80	592.80	592.80	592.80
3.7400	592.80	592.80	592.80	592.80	592.80
3.8400	592.80	592.80	592.80	592.80	592.80
3.9400	592.80	592.80	592.80	592.80	592.80
4.0400	592.80	592.80	592.80	592.80	592.80
4.1400	592.80	592.81	592.81	592.81	592.81
4.2400	592.81	592.81	592.81	592.81	592.81
4.3400	592.81	592.81	592.81	592.81	592.81
4.4400	592.81	592.81	592.81	592.81	592.81
4.5400	592.81	592.81	592.81	592.81	592.81
4.6400	592.81	592.81	592.81	592.81	592.81
4.7400	592.81	592.81	592.81	592.81	592.81
4.8400	592.81	592.81	592.81	592.81	592.81

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.26

Name.... POND 10 OUT Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

TIME vs. ELEVATION (ft)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
4.9400	592.81	592.81	592.81	592.81	592.81
5.0400	592.81	592.81	592.81	592.81	592.81
5.1400	592.81	592.81	592.81	592.81	592.82
5.2400	592.82	592.82	592.82	592.82	592.82
5.3400	592.82	592.82	592.82	592.82	592.82
5.4400	592.82	592.82	592.82	592.82	592.82
5.5400	592.82	592.82	592.82	592.82	592.82
5.6400	592.82	592.82	592.82	592.82	592.82
5.7400	592.82	592.82	592.82	592.82	592.82
5.8400	592.82	592.82	592.82	592.82	592.82
5.9400	592.82	592.82	592.82	592.82	592.82
6.0400	592.82	592.82	592.82	592.82	592.82
6.1400	592.82	592.82	592.82	592.82	592.82
6.2400	592.82	592.82	592.82	592.82	592.83
6.3400	592.83	592.83	592.83	592.83	592.83
6.4400	592.83	592.83	592.83	592.83	592.83
6.5400	592.83	592.83	592.83	592.83	592.83
6.6400	592.83	592.83	592.83	592.83	592.83
6.7400	592.83	592.83	592.83	592.83	592.83
6.8400	592.83	592.83	592.83	592.83	592.83
6.9400	592.83	592.83	592.83	592.83	592.83
7.0400	592.83	592.83	592.83	592.83	592.83
7.1400	592.83	592.83	592.83	592.83	592.83
7.2400	592.83	592.83	592.83	592.83	592.83
7.3400	592.83	592.83	592.83	592.83	592.83
7.4400	592.83	592.83	592.84	592.84	592.84
7.5400	592.84	592.84	592.84	592.84	592.84
7.6400	592.84	592.84	592.84	592.84	592.84
7.7400	592.84	592.84	592.84	592.84	592.84
7.8400	592.84	592.84	592.84	592.84	592.84
7.9400	592.84	592.84	592.84	592.84	592.84
8.0400	592.84	592.84	592.84	592.84	592.84
8.1400	592.84	592.84	592.84	592.84	592.84
8.2400	592.84	592.85	592.85	592.85	592.85
8.3400	592.85	592.85	592.85	592.85	592.85
8.4400	592.85	592.85	592.85	592.85	592.86
8.5400	592.86	592.86	592.86	592.86	592.86
8.6400	592.86	592.86	592.86	592.86	592.86

8.7400	592.86	592.86	592.87	592.87	592.87
8.8400	592.87	592.87	592.87	592.87	592.87
8.9400	592.87	592.87	592.87	592.87	592.87
9.0400	592.88	592.88	592.88	592.88	592.88
9.1400	592.88	592.88	592.88	592.88	592.88
9.2400	592.88	592.88	592.88	592.88	592.88

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.27

Name.... POND 10      OUT    Tag:    100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr    Tag:    100

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
9.3400	592.88	592.88	592.88	592.88	592.88
9.4400	592.88	592.88	592.88	592.88	592.88
9.5400	592.88	592.88	592.88	592.88	592.88
9.6400	592.88	592.88	592.88	592.88	592.89
9.7400	592.89	592.89	592.89	592.89	592.89
9.8400	592.89	592.89	592.89	592.90	592.90
9.9400	592.90	592.90	592.90	592.90	592.90
10.0400	592.90	592.91	592.91	592.91	592.91
10.1400	592.91	592.91	592.91	592.92	592.92
10.2400	592.92	592.92	592.92	592.93	592.93
10.3400	592.93	592.93	592.93	592.93	592.94
10.4400	592.94	592.94	592.94	592.94	592.95
10.5400	592.95	592.95	592.95	592.95	592.96
10.6400	592.96	592.96	592.96	592.97	592.97
10.7400	592.97	592.98	592.98	592.98	592.98
10.8400	592.99	592.99	592.99	593.00	593.00
10.9400	593.00	593.01	593.01	593.01	593.01
11.0400	593.02	593.02	593.03	593.03	593.03
11.1400	593.04	593.04	593.05	593.05	593.06
11.2400	593.07	593.07	593.08	593.08	593.09
11.3400	593.10	593.10	593.11	593.12	593.12
11.4400	593.13	593.13	593.14	593.15	593.16
11.5400	593.18	593.22	593.28	593.34	593.41
11.6400	593.49	593.60	593.75	593.90	594.06
11.7400	594.23	594.43	594.67	594.92	595.18
11.8400	595.36	595.43	595.47	595.50	595.51
11.9400	595.50	595.48	595.45	595.43	595.41
12.0400	595.38	595.32	595.26	595.19	595.06
12.1400	594.90	594.74	594.58	594.42	594.28
12.2400	594.14	594.01	593.89	593.79	593.69



12.3400	593.61	593.53	593.47	593.41	593.36
12.4400	593.31	593.27	593.24	593.21	593.18
12.5400	593.16	593.14	593.13	593.11	593.10
12.6400	593.09	593.09	593.08	593.07	593.07
12.7400	593.06	593.06	593.05	593.05	593.05
12.8400	593.04	593.04	593.04	593.03	593.03
12.9400	593.03	593.02	593.02	593.01	593.01
13.0400	593.01	593.00	593.00	593.00	592.99
13.1400	592.99	592.99	592.99	592.98	592.98
13.2400	592.98	592.98	592.98	592.97	592.97
13.3400	592.97	592.97	592.96	592.96	592.96
13.4400	592.96	592.96	592.95	592.95	592.95
13.5400	592.95	592.95	592.94	592.94	592.94
13.6400	592.94	592.94	592.93	592.93	592.93

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.28

Name.... POND 10      OUT      Tag:      100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      100

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
13.7400	592.93	592.93	592.93	592.93	592.92
13.8400	592.92	592.92	592.92	592.92	592.92
13.9400	592.91	592.91	592.91	592.91	592.91
14.0400	592.91	592.91	592.90	592.90	592.90
14.1400	592.90	592.90	592.90	592.90	592.90
14.2400	592.90	592.90	592.90	592.90	592.90
14.3400	592.90	592.89	592.89	592.89	592.89
14.4400	592.89	592.89	592.89	592.89	592.89
14.5400	592.89	592.89	592.89	592.89	592.89
14.6400	592.89	592.89	592.89	592.89	592.88
14.7400	592.88	592.88	592.88	592.88	592.88
14.8400	592.88	592.88	592.88	592.88	592.88
14.9400	592.88	592.88	592.88	592.88	592.88
15.0400	592.88	592.88	592.88	592.87	592.87
15.1400	592.87	592.87	592.87	592.87	592.87
15.2400	592.87	592.87	592.87	592.87	592.87
15.3400	592.87	592.87	592.87	592.87	592.87
15.4400	592.87	592.87	592.86	592.86	592.86
15.5400	592.86	592.86	592.86	592.86	592.86
15.6400	592.86	592.86	592.86	592.86	592.86
15.7400	592.86	592.86	592.86	592.86	592.86
15.8400	592.85	592.85	592.85	592.85	592.85

15.9400	592.85	592.85	592.85	592.85	592.85
16.0400	592.85	592.85	592.85	592.85	592.85
16.1400	592.85	592.85	592.85	592.85	592.85
16.2400	592.85	592.85	592.85	592.85	592.85
16.3400	592.85	592.85	592.85	592.84	592.84
16.4400	592.84	592.84	592.84	592.84	592.84
16.5400	592.84	592.84	592.84	592.84	592.84
16.6400	592.84	592.84	592.84	592.84	592.84
16.7400	592.84	592.84	592.84	592.84	592.84
16.8400	592.84	592.84	592.84	592.84	592.84
16.9400	592.84	592.84	592.84	592.84	592.84
17.0400	592.84	592.84	592.84	592.84	592.84
17.1400	592.84	592.84	592.84	592.84	592.84
17.2400	592.84	592.84	592.84	592.84	592.84
17.3400	592.84	592.84	592.84	592.84	592.84
17.4400	592.83	592.83	592.83	592.83	592.83
17.5400	592.83	592.83	592.83	592.83	592.83
17.6400	592.83	592.83	592.83	592.83	592.83
17.7400	592.83	592.83	592.83	592.83	592.83
17.8400	592.83	592.83	592.83	592.83	592.83
17.9400	592.83	592.83	592.83	592.83	592.83
18.0400	592.83	592.83	592.83	592.83	592.83

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.29

Name.... POND 10      OUT      Tag:      100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      100

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
18.1400	592.83	592.83	592.83	592.83	592.83
18.2400	592.83	592.83	592.83	592.83	592.83
18.3400	592.83	592.83	592.83	592.83	592.83
18.4400	592.83	592.83	592.83	592.82	592.82
18.5400	592.82	592.82	592.82	592.82	592.82
18.6400	592.82	592.82	592.82	592.82	592.82
18.7400	592.82	592.82	592.82	592.82	592.82
18.8400	592.82	592.82	592.82	592.82	592.82
18.9400	592.82	592.82	592.82	592.82	592.82
19.0400	592.82	592.82	592.82	592.82	592.82
19.1400	592.82	592.82	592.82	592.82	592.82
19.2400	592.82	592.82	592.82	592.82	592.82
19.3400	592.82	592.82	592.82	592.82	592.82
19.4400	592.82	592.82	592.82	592.82	592.82

19.5400	592.82	592.81	592.81	592.81	592.81
19.6400	592.81	592.81	592.81	592.81	592.81
19.7400	592.81	592.81	592.81	592.81	592.81
19.8400	592.81	592.81	592.81	592.81	592.81
19.9400	592.81	592.81	592.81	592.81	592.81
20.0400	592.81	592.81	592.81	592.81	592.81
20.1400	592.81	592.81	592.81	592.81	592.81
20.2400	592.81	592.81	592.81	592.81	592.81
20.3400	592.81	592.81	592.81	592.81	592.81
20.4400	592.81	592.81	592.81	592.81	592.81
20.5400	592.81	592.81	592.81	592.81	592.81
20.6400	592.81	592.81	592.81	592.81	592.81
20.7400	592.81	592.81	592.81	592.81	592.81
20.8400	592.81	592.81	592.81	592.81	592.81
20.9400	592.81	592.81	592.81	592.81	592.81
21.0400	592.81	592.81	592.81	592.81	592.81
21.1400	592.81	592.81	592.81	592.81	592.81
21.2400	592.81	592.81	592.81	592.81	592.81
21.3400	592.81	592.81	592.81	592.81	592.81
21.4400	592.81	592.81	592.81	592.81	592.81
21.5400	592.81	592.81	592.81	592.81	592.81
21.6400	592.81	592.81	592.81	592.81	592.81
21.7400	592.81	592.81	592.81	592.81	592.81
21.8400	592.81	592.81	592.81	592.81	592.81
21.9400	592.81	592.81	592.81	592.81	592.81
22.0400	592.81	592.81	592.81	592.81	592.81
22.1400	592.81	592.81	592.81	592.81	592.81
22.2400	592.81	592.81	592.81	592.81	592.81
22.3400	592.81	592.81	592.81	592.81	592.81
22.4400	592.81	592.80	592.80	592.80	592.80

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time-Elev

Page 10.30

Name.... POND 10 OUT Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

TIME vs. ELEVATION (ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
22.5400	592.80	592.80	592.80	592.80	592.80
22.6400	592.80	592.80	592.80	592.80	592.80
22.7400	592.80	592.80	592.80	592.80	592.80
22.8400	592.80	592.80	592.80	592.80	592.80
22.9400	592.80	592.80	592.80	592.80	592.80
23.0400	592.80	592.80	592.80	592.80	592.80

23.1400	592.80	592.80	592.80	592.80	592.80
23.2400	592.80	592.80	592.80	592.80	592.80
23.3400	592.80	592.80	592.80	592.80	592.80
23.4400	592.80	592.80	592.80	592.80	592.80
23.5400	592.80	592.80	592.80	592.80	592.80
23.6400	592.80	592.80	592.80	592.80	592.80
23.7400	592.80	592.80	592.80	592.80	592.80
23.8400	592.80	592.80	592.80	592.80	592.80
23.9400	592.80	592.80	592.80	592.80	592.80
24.0400	592.80	592.80	592.79	592.78	592.78
24.1400	592.77	592.77	592.77	592.76	592.76

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.01

Name.... POND 10      OUT      Tag:      2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      2

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
1.5000	.000	.000	.000	.000	.000
1.6000	.000	.000	.000	.000	.000
1.7000	.000	.000	.000	.000	.000
1.8000	.000	.000	.000	.000	.000
1.9000	.000	.000	.000	.000	.000
2.0000	.000	.000	.000	.000	.000
2.1000	.000	.000	.000	.000	.000
2.2000	.000	.000	.000	.000	.000
2.3000	.000	.000	.000	.000	.000
2.4000	.000	.000	.000	.000	.000
2.5000	.000	.000	.000	.000	.000
2.6000	.000	.000	.000	.000	.000
2.7000	.000	.000	.000	.000	.000
2.8000	.000	.000	.000	.000	.000
2.9000	.000	.000	.000	.000	.000
3.0000	.000	.001	.001	.001	.001
3.1000	.001	.001	.001	.001	.001
3.2000	.001	.001	.001	.001	.001
3.3000	.001	.001	.001	.001	.001
3.4000	.001	.001	.001	.001	.001
3.5000	.001	.001	.001	.001	.001
3.6000	.001	.001	.001	.001	.001
3.7000	.001	.001	.001	.001	.001
3.8000	.001	.001	.001	.001	.001
3.9000	.001	.001	.001	.001	.001

4.0000	.001	.001	.001	.001	.001
4.1000	.001	.001	.001	.001	.001
4.2000	.001	.001	.001	.001	.001
4.3000	.001	.001	.001	.001	.001
4.4000	.001	.001	.001	.001	.001
4.5000	.001	.001	.001	.001	.001
4.6000	.001	.001	.001	.001	.001
4.7000	.001	.001	.001	.001	.001
4.8000	.001	.001	.001	.001	.001
4.9000	.001	.001	.001	.001	.001
5.0000	.001	.001	.001	.001	.001
5.1000	.001	.001	.001	.001	.001
5.2000	.001	.001	.001	.001	.001
5.3000	.001	.001	.001	.001	.001
5.4000	.001	.001	.001	.001	.001
5.5000	.001	.001	.001	.001	.001
5.6000	.001	.001	.001	.001	.001
5.7000	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.02

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
5.8000	.001	.001	.001	.001	.001
5.9000	.001	.001	.001	.001	.001
6.0000	.001	.001	.001	.001	.001
6.1000	.001	.001	.001	.001	.001
6.2000	.001	.001	.001	.001	.001
6.3000	.001	.001	.001	.001	.001
6.4000	.001	.001	.001	.001	.001
6.5000	.001	.001	.001	.001	.001
6.6000	.001	.001	.001	.001	.001
6.7000	.001	.001	.001	.001	.001
6.8000	.001	.001	.001	.001	.001
6.9000	.001	.001	.001	.001	.001
7.0000	.001	.001	.001	.001	.001
7.1000	.001	.001	.001	.001	.001
7.2000	.001	.001	.001	.001	.001
7.3000	.001	.001	.001	.001	.001
7.4000	.001	.001	.001	.001	.001
7.5000	.001	.001	.001	.001	.001

7.6000	.001	.001	.001	.001	.001
7.7000	.001	.001	.001	.001	.001
7.8000	.001	.001	.001	.001	.001
7.9000	.001	.001	.001	.001	.001
8.0000	.001	.001	.001	.001	.001
8.1000	.001	.001	.001	.001	.001
8.2000	.001	.001	.001	.001	.001
8.3000	.001	.001	.001	.001	.001
8.4000	.001	.001	.001	.001	.001
8.5000	.001	.001	.001	.001	.001
8.6000	.001	.001	.001	.001	.001
8.7000	.001	.001	.001	.001	.001
8.8000	.001	.001	.001	.001	.001
8.9000	.001	.001	.001	.001	.001
9.0000	.001	.001	.001	.001	.001
9.1000	.001	.001	.001	.001	.001
9.2000	.001	.001	.001	.001	.001
9.3000	.001	.001	.001	.001	.001
9.4000	.001	.001	.001	.001	.001
9.5000	.001	.001	.001	.001	.001
9.6000	.001	.001	.001	.001	.001
9.7000	.001	.001	.001	.001	.001
9.8000	.001	.001	.001	.001	.001
9.9000	.001	.001	.001	.001	.001
10.0000	.001	.001	.001	.001	.001
10.1000	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.03

Name.... POND 10      OUT      Tag:      2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      2

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
10.2000	.001	.001	.001	.001	.001
10.3000	.001	.001	.001	.001	.001
10.4000	.001	.001	.001	.001	.001
10.5000	.001	.001	.001	.001	.001
10.6000	.001	.001	.001	.001	.001
10.7000	.001	.001	.001	.001	.001
10.8000	.001	.001	.001	.001	.001
10.9000	.001	.001	.001	.001	.001
11.0000	.001	.001	.001	.001	.001
11.1000	.001	.001	.001	.002	.002

11.2000	.002	.002	.002	.002	.002
11.3000	.002	.002	.002	.002	.002
11.4000	.002	.002	.002	.002	.002
11.5000	.002	.002	.002	.002	.002
11.6000	.002	.002	.002	.002	.003
11.7000	.003	.003	.003	.004	.004
11.8000	.005	.005	.005	.006	.007
11.9000	.008	.009	.010	.010	.011
12.0000	.011	.011	.011	.010	.010
12.1000	.009	.008	.007	.006	.005
12.2000	.004	.004	.003	.003	.003
12.3000	.002	.002	.002	.002	.002
12.4000	.002	.002	.002	.002	.002
12.5000	.002	.002	.002	.002	.002
12.6000	.002	.002	.002	.002	.002
12.7000	.002	.002	.002	.002	.002
12.8000	.002	.002	.002	.002	.002
12.9000	.002	.001	.001	.001	.001
13.0000	.001	.001	.001	.001	.001
13.1000	.001	.001	.001	.001	.001
13.2000	.001	.001	.001	.001	.001
13.3000	.001	.001	.001	.001	.001
13.4000	.001	.001	.001	.001	.001
13.5000	.001	.001	.001	.001	.001
13.6000	.001	.001	.001	.001	.001
13.7000	.001	.001	.001	.001	.001
13.8000	.001	.001	.001	.001	.001
13.9000	.001	.001	.001	.001	.001
14.0000	.001	.001	.001	.001	.001
14.1000	.001	.001	.001	.001	.001
14.2000	.001	.001	.001	.001	.001
14.3000	.001	.001	.001	.001	.001
14.4000	.001	.001	.001	.001	.001
14.5000	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.04

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
14.6000	.001	.001	.001	.001	.001
14.7000	.001	.001	.001	.001	.001

14.8000	.001	.001	.001	.001	.001
14.9000	.001	.001	.001	.001	.001
15.0000	.001	.001	.001	.001	.001
15.1000	.001	.001	.001	.001	.001
15.2000	.001	.001	.001	.001	.001
15.3000	.001	.001	.001	.001	.001
15.4000	.001	.001	.001	.001	.001
15.5000	.001	.001	.001	.001	.001
15.6000	.001	.001	.001	.001	.001
15.7000	.001	.001	.001	.001	.001
15.8000	.001	.001	.001	.001	.001
15.9000	.001	.001	.001	.001	.001
16.0000	.001	.001	.001	.001	.001
16.1000	.001	.001	.001	.001	.001
16.2000	.001	.001	.001	.001	.001
16.3000	.001	.001	.001	.001	.001
16.4000	.001	.001	.001	.001	.001
16.5000	.001	.001	.001	.001	.001
16.6000	.001	.001	.001	.001	.001
16.7000	.001	.001	.001	.001	.001
16.8000	.001	.001	.001	.001	.001
16.9000	.001	.001	.001	.001	.001
17.0000	.001	.001	.001	.001	.001
17.1000	.001	.001	.001	.001	.001
17.2000	.001	.001	.001	.001	.001
17.3000	.001	.001	.001	.001	.001
17.4000	.001	.001	.001	.001	.001
17.5000	.001	.001	.001	.001	.001
17.6000	.001	.001	.001	.001	.001
17.7000	.001	.001	.001	.001	.001
17.8000	.001	.001	.001	.001	.001
17.9000	.001	.001	.001	.001	.001
18.0000	.001	.001	.001	.001	.001
18.1000	.001	.001	.001	.001	.001
18.2000	.001	.001	.001	.001	.001
18.3000	.001	.001	.001	.001	.001
18.4000	.001	.001	.001	.001	.001
18.5000	.001	.001	.001	.001	.001
18.6000	.001	.001	.001	.001	.001
18.7000	.001	.001	.001	.001	.001
18.8000	.001	.001	.001	.001	.001
18.9000	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.05

Name.... POND 10      OUT      Tag:      2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      2



TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
19.0000	.001	.001	.001	.001	.001
19.1000	.001	.001	.001	.001	.001
19.2000	.001	.001	.001	.001	.001
19.3000	.001	.001	.001	.001	.001
19.4000	.001	.001	.001	.001	.001
19.5000	.001	.001	.001	.001	.001
19.6000	.001	.001	.001	.001	.001
19.7000	.001	.001	.001	.001	.001
19.8000	.001	.001	.001	.001	.001
19.9000	.001	.001	.001	.001	.001
20.0000	.001	.001	.001	.001	.001
20.1000	.001	.001	.001	.001	.001
20.2000	.001	.001	.001	.001	.001
20.3000	.001	.001	.001	.001	.001
20.4000	.001	.001	.001	.001	.001
20.5000	.001	.001	.001	.001	.001
20.6000	.001	.001	.001	.001	.001
20.7000	.001	.001	.001	.001	.001
20.8000	.001	.001	.001	.001	.001
20.9000	.001	.001	.001	.001	.001
21.0000	.001	.001	.001	.001	.001
21.1000	.001	.001	.001	.001	.001
21.2000	.001	.001	.001	.001	.001
21.3000	.001	.001	.001	.001	.001
21.4000	.001	.001	.001	.001	.001
21.5000	.001	.001	.001	.001	.001
21.6000	.001	.001	.001	.001	.001
21.7000	.001	.001	.001	.001	.001
21.8000	.001	.001	.001	.001	.001
21.9000	.001	.001	.001	.001	.001
22.0000	.001	.001	.001	.001	.001
22.1000	.001	.001	.001	.001	.001
22.2000	.001	.001	.001	.001	.001
22.3000	.001	.001	.001	.001	.001
22.4000	.001	.001	.001	.001	.001
22.5000	.001	.001	.001	.001	.001
22.6000	.001	.001	.001	.001	.001
22.7000	.001	.001	.001	.001	.001
22.8000	.001	.001	.001	.001	.001
22.9000	.001	.001	.001	.001	.001
23.0000	.001	.001	.001	.001	.001
23.1000	.001	.001	.001	.001	.001
23.2000	.001	.001	.001	.001	.001
23.3000	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.06

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
23.4000	.001	.001	.001	.001	.001
23.5000	.001	.001	.001	.001	.001
23.6000	.001	.001	.001	.001	.001
23.7000	.001	.001	.001	.001	.001
23.8000	.001	.001	.001	.001	.001
23.9000	.001	.001	.001	.001	.001
24.0000	.001	.001	.001	.001	.001
24.1000	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.07

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
.9200	.000	.000	.000	.000	.000
1.0200	.000	.000	.000	.000	.000
1.1200	.000	.000	.000	.000	.000
1.2200	.000	.000	.000	.000	.000
1.3200	.000	.000	.000	.000	.000
1.4200	.000	.000	.000	.000	.000
1.5200	.000	.000	.000	.000	.000
1.6200	.000	.000	.000	.000	.000
1.7200	.000	.000	.000	.000	.000
1.8200	.000	.000	.000	.000	.000
1.9200	.000	.000	.000	.001	.001
2.0200	.001	.001	.001	.001	.001
2.1200	.001	.001	.001	.001	.001
2.2200	.001	.001	.001	.001	.001

2.3200	.001	.001	.001	.001	.001
2.4200	.001	.001	.001	.001	.001
2.5200	.001	.001	.001	.001	.001
2.6200	.001	.001	.001	.001	.001
2.7200	.001	.001	.001	.001	.001
2.8200	.001	.001	.001	.001	.001
2.9200	.001	.001	.001	.001	.001
3.0200	.001	.001	.001	.001	.001
3.1200	.001	.001	.001	.001	.001
3.2200	.001	.001	.001	.001	.001
3.3200	.001	.001	.001	.001	.001
3.4200	.001	.001	.001	.001	.001
3.5200	.001	.001	.001	.001	.001
3.6200	.001	.001	.001	.001	.001
3.7200	.001	.001	.001	.001	.001
3.8200	.001	.001	.001	.001	.001
3.9200	.001	.001	.001	.001	.001
4.0200	.001	.001	.001	.001	.001
4.1200	.001	.001	.001	.001	.001
4.2200	.001	.001	.001	.001	.001
4.3200	.001	.001	.001	.001	.001
4.4200	.001	.001	.001	.001	.001
4.5200	.001	.001	.001	.001	.001
4.6200	.001	.001	.001	.001	.001
4.7200	.001	.001	.001	.001	.001
4.8200	.001	.001	.001	.001	.001
4.9200	.001	.001	.001	.001	.001
5.0200	.001	.001	.001	.001	.001
5.1200	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.08

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

TIME vs. VOLUME (ac-ft)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

5.2200	.001	.001	.001	.001	.001
5.3200	.001	.001	.001	.001	.001
5.4200	.001	.001	.001	.001	.001
5.5200	.001	.001	.001	.001	.001
5.6200	.001	.001	.001	.001	.001
5.7200	.001	.001	.001	.001	.001
5.8200	.001	.001	.001	.001	.001

5.9200	.001	.001	.001	.001	.001
6.0200	.001	.001	.001	.001	.001
6.1200	.001	.001	.001	.001	.001
6.2200	.001	.001	.001	.001	.001
6.3200	.001	.001	.001	.001	.001
6.4200	.001	.001	.001	.001	.001
6.5200	.001	.001	.001	.001	.001
6.6200	.001	.001	.001	.001	.001
6.7200	.001	.001	.001	.001	.001
6.8200	.001	.001	.001	.001	.001
6.9200	.001	.001	.001	.001	.001
7.0200	.001	.001	.001	.001	.001
7.1200	.001	.001	.001	.001	.001
7.2200	.001	.001	.001	.001	.001
7.3200	.001	.001	.001	.001	.001
7.4200	.001	.001	.001	.001	.001
7.5200	.001	.001	.001	.001	.001
7.6200	.001	.001	.001	.001	.001
7.7200	.001	.001	.001	.001	.001
7.8200	.001	.001	.001	.001	.001
7.9200	.001	.001	.001	.001	.001
8.0200	.001	.001	.001	.001	.001
8.1200	.001	.001	.001	.001	.001
8.2200	.001	.001	.001	.001	.001
8.3200	.001	.001	.001	.001	.001
8.4200	.001	.001	.001	.001	.001
8.5200	.001	.001	.001	.001	.001
8.6200	.001	.001	.001	.001	.001
8.7200	.001	.001	.001	.001	.001
8.8200	.001	.001	.001	.001	.001
8.9200	.001	.001	.001	.001	.001
9.0200	.001	.001	.001	.001	.001
9.1200	.001	.001	.001	.001	.001
9.2200	.001	.001	.001	.001	.001
9.3200	.001	.001	.001	.001	.001
9.4200	.001	.001	.001	.001	.001
9.5200	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.09

Name.... POND 10      OUT      Tag:      15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      15

TIME vs. VOLUME (ac-ft)

Time |

Output Time increment = .0200 hrs

hrs |

Time on left represents time for first value in each row.

9.6200	.001	.001	.001	.001	.001
9.7200	.001	.001	.001	.001	.001
9.8200	.001	.001	.001	.001	.001
9.9200	.001	.001	.001	.001	.001
10.0200	.001	.001	.001	.001	.001
10.1200	.001	.001	.001	.001	.001
10.2200	.001	.001	.001	.001	.001
10.3200	.001	.001	.001	.002	.002
10.4200	.002	.002	.002	.002	.002
10.5200	.002	.002	.002	.002	.002
10.6200	.002	.002	.002	.002	.002
10.7200	.002	.002	.002	.002	.002
10.8200	.002	.002	.002	.002	.002
10.9200	.002	.002	.002	.002	.002
11.0200	.002	.002	.002	.002	.002
11.1200	.002	.002	.002	.002	.002
11.2200	.002	.002	.002	.002	.002
11.3200	.002	.002	.002	.002	.002
11.4200	.002	.002	.002	.002	.002
11.5200	.002	.002	.002	.002	.003
11.6200	.003	.003	.003	.004	.004
11.7200	.005	.005	.006	.007	.008
11.8200	.008	.010	.011	.013	.014
11.9200	.014	.014	.014	.014	.014
12.0200	.014	.014	.014	.013	.012
12.1200	.011	.010	.009	.008	.007
12.2200	.006	.006	.005	.004	.004
12.3200	.004	.003	.003	.003	.003
12.4200	.003	.002	.002	.002	.002
12.5200	.002	.002	.002	.002	.002
12.6200	.002	.002	.002	.002	.002
12.7200	.002	.002	.002	.002	.002
12.8200	.002	.002	.002	.002	.002
12.9200	.002	.002	.002	.002	.002
13.0200	.002	.002	.002	.002	.002
13.1200	.002	.002	.002	.002	.002
13.2200	.002	.002	.002	.002	.002
13.3200	.002	.002	.002	.002	.002
13.4200	.002	.002	.002	.002	.002
13.5200	.002	.002	.002	.002	.002
13.6200	.002	.002	.002	.002	.002
13.7200	.002	.002	.001	.001	.001
13.8200	.001	.001	.001	.001	.001
13.9200	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.10

Name.... POND 10            OUT    Tag:     15                            Event: 15 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr    Tag:     15

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs Time on left represents time for first value in each row.				
14.0200	.001	.001	.001	.001	.001
14.1200	.001	.001	.001	.001	.001
14.2200	.001	.001	.001	.001	.001
14.3200	.001	.001	.001	.001	.001
14.4200	.001	.001	.001	.001	.001
14.5200	.001	.001	.001	.001	.001
14.6200	.001	.001	.001	.001	.001
14.7200	.001	.001	.001	.001	.001
14.8200	.001	.001	.001	.001	.001
14.9200	.001	.001	.001	.001	.001
15.0200	.001	.001	.001	.001	.001
15.1200	.001	.001	.001	.001	.001
15.2200	.001	.001	.001	.001	.001
15.3200	.001	.001	.001	.001	.001
15.4200	.001	.001	.001	.001	.001
15.5200	.001	.001	.001	.001	.001
15.6200	.001	.001	.001	.001	.001
15.7200	.001	.001	.001	.001	.001
15.8200	.001	.001	.001	.001	.001
15.9200	.001	.001	.001	.001	.001
16.0200	.001	.001	.001	.001	.001
16.1200	.001	.001	.001	.001	.001
16.2200	.001	.001	.001	.001	.001
16.3200	.001	.001	.001	.001	.001
16.4200	.001	.001	.001	.001	.001
16.5200	.001	.001	.001	.001	.001
16.6200	.001	.001	.001	.001	.001
16.7200	.001	.001	.001	.001	.001
16.8200	.001	.001	.001	.001	.001
16.9200	.001	.001	.001	.001	.001
17.0200	.001	.001	.001	.001	.001
17.1200	.001	.001	.001	.001	.001
17.2200	.001	.001	.001	.001	.001
17.3200	.001	.001	.001	.001	.001
17.4200	.001	.001	.001	.001	.001
17.5200	.001	.001	.001	.001	.001
17.6200	.001	.001	.001	.001	.001
17.7200	.001	.001	.001	.001	.001
17.8200	.001	.001	.001	.001	.001
17.9200	.001	.001	.001	.001	.001
18.0200	.001	.001	.001	.001	.001

18.1200		.001	.001	.001	.001	.001
18.2200		.001	.001	.001	.001	.001
18.3200		.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.11

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
18.4200	.001	.001	.001	.001	.001
18.5200	.001	.001	.001	.001	.001
18.6200	.001	.001	.001	.001	.001
18.7200	.001	.001	.001	.001	.001
18.8200	.001	.001	.001	.001	.001
18.9200	.001	.001	.001	.001	.001
19.0200	.001	.001	.001	.001	.001
19.1200	.001	.001	.001	.001	.001
19.2200	.001	.001	.001	.001	.001
19.3200	.001	.001	.001	.001	.001
19.4200	.001	.001	.001	.001	.001
19.5200	.001	.001	.001	.001	.001
19.6200	.001	.001	.001	.001	.001
19.7200	.001	.001	.001	.001	.001
19.8200	.001	.001	.001	.001	.001
19.9200	.001	.001	.001	.001	.001
20.0200	.001	.001	.001	.001	.001
20.1200	.001	.001	.001	.001	.001
20.2200	.001	.001	.001	.001	.001
20.3200	.001	.001	.001	.001	.001
20.4200	.001	.001	.001	.001	.001
20.5200	.001	.001	.001	.001	.001
20.6200	.001	.001	.001	.001	.001
20.7200	.001	.001	.001	.001	.001
20.8200	.001	.001	.001	.001	.001
20.9200	.001	.001	.001	.001	.001
21.0200	.001	.001	.001	.001	.001
21.1200	.001	.001	.001	.001	.001
21.2200	.001	.001	.001	.001	.001
21.3200	.001	.001	.001	.001	.001
21.4200	.001	.001	.001	.001	.001
21.5200	.001	.001	.001	.001	.001
21.6200	.001	.001	.001	.001	.001

21.7200	.001	.001	.001	.001	.001
21.8200	.001	.001	.001	.001	.001
21.9200	.001	.001	.001	.001	.001
22.0200	.001	.001	.001	.001	.001
22.1200	.001	.001	.001	.001	.001
22.2200	.001	.001	.001	.001	.001
22.3200	.001	.001	.001	.001	.001
22.4200	.001	.001	.001	.001	.001
22.5200	.001	.001	.001	.001	.001
22.6200	.001	.001	.001	.001	.001
22.7200	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.12

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
22.8200	.001	.001	.001	.001	.001
22.9200	.001	.001	.001	.001	.001
23.0200	.001	.001	.001	.001	.001
23.1200	.001	.001	.001	.001	.001
23.2200	.001	.001	.001	.001	.001
23.3200	.001	.001	.001	.001	.001
23.4200	.001	.001	.001	.001	.001
23.5200	.001	.001	.001	.001	.001
23.6200	.001	.001	.001	.001	.001
23.7200	.001	.001	.001	.001	.001
23.8200	.001	.001	.001	.001	.001
23.9200	.001	.001	.001	.001	.001
24.0200	.001	.001	.001	.001	.001
24.1200	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.13

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TIME vs. VOLUME (ac-ft)



Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
.8400	.000	.000	.000	.000	.000
.9400	.000	.000	.000	.000	.000
1.0400	.000	.000	.000	.000	.000
1.1400	.000	.000	.000	.000	.000
1.2400	.000	.000	.000	.000	.000
1.3400	.000	.000	.000	.000	.000
1.4400	.000	.000	.000	.000	.000
1.5400	.000	.000	.000	.000	.000
1.6400	.000	.000	.000	.000	.000
1.7400	.000	.000	.000	.001	.001
1.8400	.001	.001	.001	.001	.001
1.9400	.001	.001	.001	.001	.001
2.0400	.001	.001	.001	.001	.001
2.1400	.001	.001	.001	.001	.001
2.2400	.001	.001	.001	.001	.001
2.3400	.001	.001	.001	.001	.001
2.4400	.001	.001	.001	.001	.001
2.5400	.001	.001	.001	.001	.001
2.6400	.001	.001	.001	.001	.001
2.7400	.001	.001	.001	.001	.001
2.8400	.001	.001	.001	.001	.001
2.9400	.001	.001	.001	.001	.001
3.0400	.001	.001	.001	.001	.001
3.1400	.001	.001	.001	.001	.001
3.2400	.001	.001	.001	.001	.001
3.3400	.001	.001	.001	.001	.001
3.4400	.001	.001	.001	.001	.001
3.5400	.001	.001	.001	.001	.001
3.6400	.001	.001	.001	.001	.001
3.7400	.001	.001	.001	.001	.001
3.8400	.001	.001	.001	.001	.001
3.9400	.001	.001	.001	.001	.001
4.0400	.001	.001	.001	.001	.001
4.1400	.001	.001	.001	.001	.001
4.2400	.001	.001	.001	.001	.001
4.3400	.001	.001	.001	.001	.001
4.4400	.001	.001	.001	.001	.001
4.5400	.001	.001	.001	.001	.001
4.6400	.001	.001	.001	.001	.001
4.7400	.001	.001	.001	.001	.001
4.8400	.001	.001	.001	.001	.001
4.9400	.001	.001	.001	.001	.001
5.0400	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



TIME vs. VOLUME (ac-ft)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
5.1400	.001	.001	.001	.001	.001
5.2400	.001	.001	.001	.001	.001
5.3400	.001	.001	.001	.001	.001
5.4400	.001	.001	.001	.001	.001
5.5400	.001	.001	.001	.001	.001
5.6400	.001	.001	.001	.001	.001
5.7400	.001	.001	.001	.001	.001
5.8400	.001	.001	.001	.001	.001
5.9400	.001	.001	.001	.001	.001
6.0400	.001	.001	.001	.001	.001
6.1400	.001	.001	.001	.001	.001
6.2400	.001	.001	.001	.001	.001
6.3400	.001	.001	.001	.001	.001
6.4400	.001	.001	.001	.001	.001
6.5400	.001	.001	.001	.001	.001
6.6400	.001	.001	.001	.001	.001
6.7400	.001	.001	.001	.001	.001
6.8400	.001	.001	.001	.001	.001
6.9400	.001	.001	.001	.001	.001
7.0400	.001	.001	.001	.001	.001
7.1400	.001	.001	.001	.001	.001
7.2400	.001	.001	.001	.001	.001
7.3400	.001	.001	.001	.001	.001
7.4400	.001	.001	.001	.001	.001
7.5400	.001	.001	.001	.001	.001
7.6400	.001	.001	.001	.001	.001
7.7400	.001	.001	.001	.001	.001
7.8400	.001	.001	.001	.001	.001
7.9400	.001	.001	.001	.001	.001
8.0400	.001	.001	.001	.001	.001
8.1400	.001	.001	.001	.001	.001
8.2400	.001	.001	.001	.001	.001
8.3400	.001	.001	.001	.001	.001
8.4400	.001	.001	.001	.001	.001
8.5400	.001	.001	.001	.001	.001
8.6400	.001	.001	.001	.001	.001
8.7400	.001	.001	.001	.001	.001
8.8400	.001	.001	.001	.001	.001
8.9400	.001	.001	.001	.001	.001
9.0400	.001	.001	.001	.001	.001

9.1400	.001	.001	.001	.001	.001
9.2400	.001	.001	.001	.001	.001
9.3400	.001	.001	.001	.001	.001
9.4400	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

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Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
9.5400	.001	.001	.001	.001	.001
9.6400	.001	.001	.001	.001	.001
9.7400	.001	.001	.001	.001	.001
9.8400	.001	.001	.001	.001	.001
9.9400	.001	.001	.001	.001	.001
10.0400	.001	.001	.001	.001	.001
10.1400	.001	.001	.002	.002	.002
10.2400	.002	.002	.002	.002	.002
10.3400	.002	.002	.002	.002	.002
10.4400	.002	.002	.002	.002	.002
10.5400	.002	.002	.002	.002	.002
10.6400	.002	.002	.002	.002	.002
10.7400	.002	.002	.002	.002	.002
10.8400	.002	.002	.002	.002	.002
10.9400	.002	.002	.002	.002	.002
11.0400	.002	.002	.002	.002	.002
11.1400	.002	.002	.002	.002	.002
11.2400	.002	.002	.002	.002	.002
11.3400	.002	.002	.002	.002	.002
11.4400	.002	.002	.002	.002	.002
11.5400	.002	.002	.003	.003	.003
11.6400	.003	.004	.004	.005	.005
11.7400	.006	.007	.008	.009	.010
11.8400	.011	.013	.014	.015	.015
11.9400	.015	.014	.014	.014	.014
12.0400	.014	.014	.013	.013	.012
12.1400	.011	.009	.008	.008	.007
12.2400	.006	.005	.005	.004	.004
12.3400	.004	.003	.003	.003	.003
12.4400	.003	.002	.002	.002	.002
12.5400	.002	.002	.002	.002	.002
12.6400	.002	.002	.002	.002	.002

12.7400	.002	.002	.002	.002	.002
12.8400	.002	.002	.002	.002	.002
12.9400	.002	.002	.002	.002	.002
13.0400	.002	.002	.002	.002	.002
13.1400	.002	.002	.002	.002	.002
13.2400	.002	.002	.002	.002	.002
13.3400	.002	.002	.002	.002	.002
13.4400	.002	.002	.002	.002	.002
13.5400	.002	.002	.002	.002	.002
13.6400	.002	.002	.002	.002	.002
13.7400	.002	.002	.002	.002	.002
13.8400	.002	.002	.002	.002	.002

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.16

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
13.9400	.002	.002	.001	.001	.001
14.0400	.001	.001	.001	.001	.001
14.1400	.001	.001	.001	.001	.001
14.2400	.001	.001	.001	.001	.001
14.3400	.001	.001	.001	.001	.001
14.4400	.001	.001	.001	.001	.001
14.5400	.001	.001	.001	.001	.001
14.6400	.001	.001	.001	.001	.001
14.7400	.001	.001	.001	.001	.001
14.8400	.001	.001	.001	.001	.001
14.9400	.001	.001	.001	.001	.001
15.0400	.001	.001	.001	.001	.001
15.1400	.001	.001	.001	.001	.001
15.2400	.001	.001	.001	.001	.001
15.3400	.001	.001	.001	.001	.001
15.4400	.001	.001	.001	.001	.001
15.5400	.001	.001	.001	.001	.001
15.6400	.001	.001	.001	.001	.001
15.7400	.001	.001	.001	.001	.001
15.8400	.001	.001	.001	.001	.001
15.9400	.001	.001	.001	.001	.001
16.0400	.001	.001	.001	.001	.001
16.1400	.001	.001	.001	.001	.001
16.2400	.001	.001	.001	.001	.001

16.3400	.001	.001	.001	.001	.001
16.4400	.001	.001	.001	.001	.001
16.5400	.001	.001	.001	.001	.001
16.6400	.001	.001	.001	.001	.001
16.7400	.001	.001	.001	.001	.001
16.8400	.001	.001	.001	.001	.001
16.9400	.001	.001	.001	.001	.001
17.0400	.001	.001	.001	.001	.001
17.1400	.001	.001	.001	.001	.001
17.2400	.001	.001	.001	.001	.001
17.3400	.001	.001	.001	.001	.001
17.4400	.001	.001	.001	.001	.001
17.5400	.001	.001	.001	.001	.001
17.6400	.001	.001	.001	.001	.001
17.7400	.001	.001	.001	.001	.001
17.8400	.001	.001	.001	.001	.001
17.9400	.001	.001	.001	.001	.001
18.0400	.001	.001	.001	.001	.001
18.1400	.001	.001	.001	.001	.001
18.2400	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.17

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
18.3400	.001	.001	.001	.001	.001
18.4400	.001	.001	.001	.001	.001
18.5400	.001	.001	.001	.001	.001
18.6400	.001	.001	.001	.001	.001
18.7400	.001	.001	.001	.001	.001
18.8400	.001	.001	.001	.001	.001
18.9400	.001	.001	.001	.001	.001
19.0400	.001	.001	.001	.001	.001
19.1400	.001	.001	.001	.001	.001
19.2400	.001	.001	.001	.001	.001
19.3400	.001	.001	.001	.001	.001
19.4400	.001	.001	.001	.001	.001
19.5400	.001	.001	.001	.001	.001
19.6400	.001	.001	.001	.001	.001
19.7400	.001	.001	.001	.001	.001
19.8400	.001	.001	.001	.001	.001

19.9400	.001	.001	.001	.001	.001
20.0400	.001	.001	.001	.001	.001
20.1400	.001	.001	.001	.001	.001
20.2400	.001	.001	.001	.001	.001
20.3400	.001	.001	.001	.001	.001
20.4400	.001	.001	.001	.001	.001
20.5400	.001	.001	.001	.001	.001
20.6400	.001	.001	.001	.001	.001
20.7400	.001	.001	.001	.001	.001
20.8400	.001	.001	.001	.001	.001
20.9400	.001	.001	.001	.001	.001
21.0400	.001	.001	.001	.001	.001
21.1400	.001	.001	.001	.001	.001
21.2400	.001	.001	.001	.001	.001
21.3400	.001	.001	.001	.001	.001
21.4400	.001	.001	.001	.001	.001
21.5400	.001	.001	.001	.001	.001
21.6400	.001	.001	.001	.001	.001
21.7400	.001	.001	.001	.001	.001
21.8400	.001	.001	.001	.001	.001
21.9400	.001	.001	.001	.001	.001
22.0400	.001	.001	.001	.001	.001
22.1400	.001	.001	.001	.001	.001
22.2400	.001	.001	.001	.001	.001
22.3400	.001	.001	.001	.001	.001
22.4400	.001	.001	.001	.001	.001
22.5400	.001	.001	.001	.001	.001
22.6400	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.18

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
22.7400	.001	.001	.001	.001	.001
22.8400	.001	.001	.001	.001	.001
22.9400	.001	.001	.001	.001	.001
23.0400	.001	.001	.001	.001	.001
23.1400	.001	.001	.001	.001	.001
23.2400	.001	.001	.001	.001	.001
23.3400	.001	.001	.001	.001	.001
23.4400	.001	.001	.001	.001	.001

23.5400	.001	.001	.001	.001	.001
23.6400	.001	.001	.001	.001	.001
23.7400	.001	.001	.001	.001	.001
23.8400	.001	.001	.001	.001	.001
23.9400	.001	.001	.001	.001	.001
24.0400	.001	.001	.001	.001	.001
24.1400	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.19

Name.... POND 10 OUT Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
.7200	.000	.000	.000	.000	.000
.8200	.000	.000	.000	.000	.000
.9200	.000	.000	.000	.000	.000
1.0200	.000	.000	.000	.000	.000
1.1200	.000	.000	.000	.000	.000
1.2200	.000	.000	.000	.000	.000
1.3200	.000	.000	.000	.000	.000
1.4200	.000	.000	.000	.000	.000
1.5200	.000	.000	.000	.000	.001
1.6200	.001	.001	.001	.001	.001
1.7200	.001	.001	.001	.001	.001
1.8200	.001	.001	.001	.001	.001
1.9200	.001	.001	.001	.001	.001
2.0200	.001	.001	.001	.001	.001
2.1200	.001	.001	.001	.001	.001
2.2200	.001	.001	.001	.001	.001
2.3200	.001	.001	.001	.001	.001
2.4200	.001	.001	.001	.001	.001
2.5200	.001	.001	.001	.001	.001
2.6200	.001	.001	.001	.001	.001
2.7200	.001	.001	.001	.001	.001
2.8200	.001	.001	.001	.001	.001
2.9200	.001	.001	.001	.001	.001
3.0200	.001	.001	.001	.001	.001
3.1200	.001	.001	.001	.001	.001
3.2200	.001	.001	.001	.001	.001
3.3200	.001	.001	.001	.001	.001
3.4200	.001	.001	.001	.001	.001
3.5200	.001	.001	.001	.001	.001

3.6200	.001	.001	.001	.001	.001
3.7200	.001	.001	.001	.001	.001
3.8200	.001	.001	.001	.001	.001
3.9200	.001	.001	.001	.001	.001
4.0200	.001	.001	.001	.001	.001
4.1200	.001	.001	.001	.001	.001
4.2200	.001	.001	.001	.001	.001
4.3200	.001	.001	.001	.001	.001
4.4200	.001	.001	.001	.001	.001
4.5200	.001	.001	.001	.001	.001
4.6200	.001	.001	.001	.001	.001
4.7200	.001	.001	.001	.001	.001
4.8200	.001	.001	.001	.001	.001
4.9200	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.20

Name.... POND 10 OUT Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
5.0200	.001	.001	.001	.001	.001
5.1200	.001	.001	.001	.001	.001
5.2200	.001	.001	.001	.001	.001
5.3200	.001	.001	.001	.001	.001
5.4200	.001	.001	.001	.001	.001
5.5200	.001	.001	.001	.001	.001
5.6200	.001	.001	.001	.001	.001
5.7200	.001	.001	.001	.001	.001
5.8200	.001	.001	.001	.001	.001
5.9200	.001	.001	.001	.001	.001
6.0200	.001	.001	.001	.001	.001
6.1200	.001	.001	.001	.001	.001
6.2200	.001	.001	.001	.001	.001
6.3200	.001	.001	.001	.001	.001
6.4200	.001	.001	.001	.001	.001
6.5200	.001	.001	.001	.001	.001
6.6200	.001	.001	.001	.001	.001
6.7200	.001	.001	.001	.001	.001
6.8200	.001	.001	.001	.001	.001
6.9200	.001	.001	.001	.001	.001
7.0200	.001	.001	.001	.001	.001
7.1200	.001	.001	.001	.001	.001



7.2200	.001	.001	.001	.001	.001
7.3200	.001	.001	.001	.001	.001
7.4200	.001	.001	.001	.001	.001
7.5200	.001	.001	.001	.001	.001
7.6200	.001	.001	.001	.001	.001
7.7200	.001	.001	.001	.001	.001
7.8200	.001	.001	.001	.001	.001
7.9200	.001	.001	.001	.001	.001
8.0200	.001	.001	.001	.001	.001
8.1200	.001	.001	.001	.001	.001
8.2200	.001	.001	.001	.001	.001
8.3200	.001	.001	.001	.001	.001
8.4200	.001	.001	.001	.001	.001
8.5200	.001	.001	.001	.001	.001
8.6200	.001	.001	.001	.001	.001
8.7200	.001	.001	.001	.001	.001
8.8200	.001	.001	.001	.001	.001
8.9200	.001	.001	.001	.001	.001
9.0200	.001	.001	.001	.001	.001
9.1200	.001	.001	.001	.001	.001
9.2200	.001	.001	.001	.001	.001
9.3200	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.21

Name.... POND 10 OUT Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
9.4200	.001	.001	.001	.001	.001
9.5200	.001	.001	.001	.001	.001
9.6200	.001	.001	.001	.001	.001
9.7200	.001	.001	.001	.001	.001
9.8200	.001	.001	.001	.002	.002
9.9200	.002	.002	.002	.002	.002
10.0200	.002	.002	.002	.002	.002
10.1200	.002	.002	.002	.002	.002
10.2200	.002	.002	.002	.002	.002
10.3200	.002	.002	.002	.002	.002
10.4200	.002	.002	.002	.002	.002
10.5200	.002	.002	.002	.002	.002
10.6200	.002	.002	.002	.002	.002
10.7200	.002	.002	.002	.002	.002

10.8200	.002	.002	.002	.002	.002
10.9200	.002	.002	.002	.002	.002
11.0200	.002	.002	.002	.002	.002
11.1200	.002	.002	.002	.002	.002
11.2200	.002	.002	.002	.002	.002
11.3200	.002	.002	.002	.002	.002
11.4200	.002	.002	.002	.002	.002
11.5200	.002	.002	.003	.003	.003
11.6200	.003	.004	.004	.005	.005
11.7200	.006	.007	.008	.009	.010
11.8200	.011	.013	.014	.015	.015
11.9200	.015	.015	.015	.015	.014
12.0200	.014	.014	.014	.013	.013
12.1200	.012	.011	.010	.009	.008
12.2200	.007	.007	.006	.005	.005
12.3200	.004	.004	.004	.003	.003
12.4200	.003	.003	.003	.003	.003
12.5200	.002	.002	.002	.002	.002
12.6200	.002	.002	.002	.002	.002
12.7200	.002	.002	.002	.002	.002
12.8200	.002	.002	.002	.002	.002
12.9200	.002	.002	.002	.002	.002
13.0200	.002	.002	.002	.002	.002
13.1200	.002	.002	.002	.002	.002
13.2200	.002	.002	.002	.002	.002
13.3200	.002	.002	.002	.002	.002
13.4200	.002	.002	.002	.002	.002
13.5200	.002	.002	.002	.002	.002
13.6200	.002	.002	.002	.002	.002
13.7200	.002	.002	.002	.002	.002

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.22

Name.... POND 10 OUT Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
13.8200	.002	.002	.002	.002	.002
13.9200	.002	.002	.002	.002	.002
14.0200	.002	.002	.002	.002	.002
14.1200	.002	.002	.002	.002	.002
14.2200	.002	.002	.002	.002	.002
14.3200	.002	.002	.002	.002	.002

14.4200	.001	.001	.001	.001	.001
14.5200	.001	.001	.001	.001	.001
14.6200	.001	.001	.001	.001	.001
14.7200	.001	.001	.001	.001	.001
14.8200	.001	.001	.001	.001	.001
14.9200	.001	.001	.001	.001	.001
15.0200	.001	.001	.001	.001	.001
15.1200	.001	.001	.001	.001	.001
15.2200	.001	.001	.001	.001	.001
15.3200	.001	.001	.001	.001	.001
15.4200	.001	.001	.001	.001	.001
15.5200	.001	.001	.001	.001	.001
15.6200	.001	.001	.001	.001	.001
15.7200	.001	.001	.001	.001	.001
15.8200	.001	.001	.001	.001	.001
15.9200	.001	.001	.001	.001	.001
16.0200	.001	.001	.001	.001	.001
16.1200	.001	.001	.001	.001	.001
16.2200	.001	.001	.001	.001	.001
16.3200	.001	.001	.001	.001	.001
16.4200	.001	.001	.001	.001	.001
16.5200	.001	.001	.001	.001	.001
16.6200	.001	.001	.001	.001	.001
16.7200	.001	.001	.001	.001	.001
16.8200	.001	.001	.001	.001	.001
16.9200	.001	.001	.001	.001	.001
17.0200	.001	.001	.001	.001	.001
17.1200	.001	.001	.001	.001	.001
17.2200	.001	.001	.001	.001	.001
17.3200	.001	.001	.001	.001	.001
17.4200	.001	.001	.001	.001	.001
17.5200	.001	.001	.001	.001	.001
17.6200	.001	.001	.001	.001	.001
17.7200	.001	.001	.001	.001	.001
17.8200	.001	.001	.001	.001	.001
17.9200	.001	.001	.001	.001	.001
18.0200	.001	.001	.001	.001	.001
18.1200	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.23

Name.... POND 10      OUT      Tag:      50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      50

TIME vs. VOLUME (ac-ft)

Time |

Output Time increment = .0200 hrs

hrs	Time on left represents time for first value in each row.				
18.2200	.001	.001	.001	.001	.001
18.3200	.001	.001	.001	.001	.001
18.4200	.001	.001	.001	.001	.001
18.5200	.001	.001	.001	.001	.001
18.6200	.001	.001	.001	.001	.001
18.7200	.001	.001	.001	.001	.001
18.8200	.001	.001	.001	.001	.001
18.9200	.001	.001	.001	.001	.001
19.0200	.001	.001	.001	.001	.001
19.1200	.001	.001	.001	.001	.001
19.2200	.001	.001	.001	.001	.001
19.3200	.001	.001	.001	.001	.001
19.4200	.001	.001	.001	.001	.001
19.5200	.001	.001	.001	.001	.001
19.6200	.001	.001	.001	.001	.001
19.7200	.001	.001	.001	.001	.001
19.8200	.001	.001	.001	.001	.001
19.9200	.001	.001	.001	.001	.001
20.0200	.001	.001	.001	.001	.001
20.1200	.001	.001	.001	.001	.001
20.2200	.001	.001	.001	.001	.001
20.3200	.001	.001	.001	.001	.001
20.4200	.001	.001	.001	.001	.001
20.5200	.001	.001	.001	.001	.001
20.6200	.001	.001	.001	.001	.001
20.7200	.001	.001	.001	.001	.001
20.8200	.001	.001	.001	.001	.001
20.9200	.001	.001	.001	.001	.001
21.0200	.001	.001	.001	.001	.001
21.1200	.001	.001	.001	.001	.001
21.2200	.001	.001	.001	.001	.001
21.3200	.001	.001	.001	.001	.001
21.4200	.001	.001	.001	.001	.001
21.5200	.001	.001	.001	.001	.001
21.6200	.001	.001	.001	.001	.001
21.7200	.001	.001	.001	.001	.001
21.8200	.001	.001	.001	.001	.001
21.9200	.001	.001	.001	.001	.001
22.0200	.001	.001	.001	.001	.001
22.1200	.001	.001	.001	.001	.001
22.2200	.001	.001	.001	.001	.001
22.3200	.001	.001	.001	.001	.001
22.4200	.001	.001	.001	.001	.001
22.5200	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume Page 11.24  
 Name.... POND 10 OUT Tag: 50 Event: 50 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 50

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
22.6200	.001	.001	.001	.001	.001
22.7200	.001	.001	.001	.001	.001
22.8200	.001	.001	.001	.001	.001
22.9200	.001	.001	.001	.001	.001
23.0200	.001	.001	.001	.001	.001
23.1200	.001	.001	.001	.001	.001
23.2200	.001	.001	.001	.001	.001
23.3200	.001	.001	.001	.001	.001
23.4200	.001	.001	.001	.001	.001
23.5200	.001	.001	.001	.001	.001
23.6200	.001	.001	.001	.001	.001
23.7200	.001	.001	.001	.001	.001
23.8200	.001	.001	.001	.001	.001
23.9200	.001	.001	.001	.001	.001
24.0200	.001	.001	.001	.001	.001
24.1200	.001	.001	.001	.001	.001
24.2200	.001				

S/N:  
 PondPack Ver: Compute Time: Date:



Type.... Time vs. Volume Page 11.25  
 Name.... POND 10 OUT Tag: 100 Event: 100 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 100

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
.6400	.000	.000	.000	.000	.000
.7400	.000	.000	.000	.000	.000
.8400	.000	.000	.000	.000	.000
.9400	.000	.000	.000	.000	.000
1.0400	.000	.000	.000	.000	.000
1.1400	.000	.000	.000	.000	.000
1.2400	.000	.000	.000	.000	.000
1.3400	.000	.000	.000	.000	.001
1.4400	.001	.001	.001	.001	.001

1.5400	.001	.001	.001	.001	.001
1.6400	.001	.001	.001	.001	.001
1.7400	.001	.001	.001	.001	.001
1.8400	.001	.001	.001	.001	.001
1.9400	.001	.001	.001	.001	.001
2.0400	.001	.001	.001	.001	.001
2.1400	.001	.001	.001	.001	.001
2.2400	.001	.001	.001	.001	.001
2.3400	.001	.001	.001	.001	.001
2.4400	.001	.001	.001	.001	.001
2.5400	.001	.001	.001	.001	.001
2.6400	.001	.001	.001	.001	.001
2.7400	.001	.001	.001	.001	.001
2.8400	.001	.001	.001	.001	.001
2.9400	.001	.001	.001	.001	.001
3.0400	.001	.001	.001	.001	.001
3.1400	.001	.001	.001	.001	.001
3.2400	.001	.001	.001	.001	.001
3.3400	.001	.001	.001	.001	.001
3.4400	.001	.001	.001	.001	.001
3.5400	.001	.001	.001	.001	.001
3.6400	.001	.001	.001	.001	.001
3.7400	.001	.001	.001	.001	.001
3.8400	.001	.001	.001	.001	.001
3.9400	.001	.001	.001	.001	.001
4.0400	.001	.001	.001	.001	.001
4.1400	.001	.001	.001	.001	.001
4.2400	.001	.001	.001	.001	.001
4.3400	.001	.001	.001	.001	.001
4.4400	.001	.001	.001	.001	.001
4.5400	.001	.001	.001	.001	.001
4.6400	.001	.001	.001	.001	.001
4.7400	.001	.001	.001	.001	.001
4.8400	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.26

Name.... POND 10 OUT Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
4.9400	.001	.001	.001	.001	.001
5.0400	.001	.001	.001	.001	.001

5.1400	.001	.001	.001	.001	.001
5.2400	.001	.001	.001	.001	.001
5.3400	.001	.001	.001	.001	.001
5.4400	.001	.001	.001	.001	.001
5.5400	.001	.001	.001	.001	.001
5.6400	.001	.001	.001	.001	.001
5.7400	.001	.001	.001	.001	.001
5.8400	.001	.001	.001	.001	.001
5.9400	.001	.001	.001	.001	.001
6.0400	.001	.001	.001	.001	.001
6.1400	.001	.001	.001	.001	.001
6.2400	.001	.001	.001	.001	.001
6.3400	.001	.001	.001	.001	.001
6.4400	.001	.001	.001	.001	.001
6.5400	.001	.001	.001	.001	.001
6.6400	.001	.001	.001	.001	.001
6.7400	.001	.001	.001	.001	.001
6.8400	.001	.001	.001	.001	.001
6.9400	.001	.001	.001	.001	.001
7.0400	.001	.001	.001	.001	.001
7.1400	.001	.001	.001	.001	.001
7.2400	.001	.001	.001	.001	.001
7.3400	.001	.001	.001	.001	.001
7.4400	.001	.001	.001	.001	.001
7.5400	.001	.001	.001	.001	.001
7.6400	.001	.001	.001	.001	.001
7.7400	.001	.001	.001	.001	.001
7.8400	.001	.001	.001	.001	.001
7.9400	.001	.001	.001	.001	.001
8.0400	.001	.001	.001	.001	.001
8.1400	.001	.001	.001	.001	.001
8.2400	.001	.001	.001	.001	.001
8.3400	.001	.001	.001	.001	.001
8.4400	.001	.001	.001	.001	.001
8.5400	.001	.001	.001	.001	.001
8.6400	.001	.001	.001	.001	.001
8.7400	.001	.001	.001	.001	.001
8.8400	.001	.001	.001	.001	.001
8.9400	.001	.001	.001	.001	.001
9.0400	.001	.001	.001	.001	.001
9.1400	.001	.002	.002	.002	.002
9.2400	.002	.002	.002	.002	.002

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.27

Name.... POND 10      OUT      Tag:      100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      100

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
9.3400	.002	.002	.002	.002	.002
9.4400	.002	.002	.002	.002	.002
9.5400	.002	.002	.002	.002	.002
9.6400	.002	.002	.002	.002	.002
9.7400	.002	.002	.002	.002	.002
9.8400	.002	.002	.002	.002	.002
9.9400	.002	.002	.002	.002	.002
10.0400	.002	.002	.002	.002	.002
10.1400	.002	.002	.002	.002	.002
10.2400	.002	.002	.002	.002	.002
10.3400	.002	.002	.002	.002	.002
10.4400	.002	.002	.002	.002	.002
10.5400	.002	.002	.002	.002	.002
10.6400	.002	.002	.002	.002	.002
10.7400	.002	.002	.002	.002	.002
10.8400	.002	.002	.002	.002	.002
10.9400	.002	.002	.002	.002	.002
11.0400	.002	.002	.002	.002	.002
11.1400	.002	.002	.002	.002	.002
11.2400	.002	.002	.002	.002	.002
11.3400	.002	.002	.002	.002	.002
11.4400	.002	.002	.003	.003	.003
11.5400	.003	.003	.003	.003	.004
11.6400	.004	.005	.005	.006	.007
11.7400	.008	.009	.010	.012	.013
11.8400	.014	.015	.015	.015	.015
11.9400	.015	.015	.015	.015	.015
12.0400	.014	.014	.014	.013	.012
12.1400	.012	.011	.010	.009	.008
12.2400	.007	.007	.006	.005	.005
12.3400	.005	.004	.004	.004	.003
12.4400	.003	.003	.003	.003	.003
12.5400	.003	.003	.002	.002	.002
12.6400	.002	.002	.002	.002	.002
12.7400	.002	.002	.002	.002	.002
12.8400	.002	.002	.002	.002	.002
12.9400	.002	.002	.002	.002	.002
13.0400	.002	.002	.002	.002	.002
13.1400	.002	.002	.002	.002	.002
13.2400	.002	.002	.002	.002	.002
13.3400	.002	.002	.002	.002	.002
13.4400	.002	.002	.002	.002	.002
13.5400	.002	.002	.002	.002	.002
13.6400	.002	.002	.002	.002	.002



S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.28

Name.... POND 10 OUT Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
13.7400	.002	.002	.002	.002	.002
13.8400	.002	.002	.002	.002	.002
13.9400	.002	.002	.002	.002	.002
14.0400	.002	.002	.002	.002	.002
14.1400	.002	.002	.002	.002	.002
14.2400	.002	.002	.002	.002	.002
14.3400	.002	.002	.002	.002	.002
14.4400	.002	.002	.002	.002	.002
14.5400	.002	.002	.002	.002	.002
14.6400	.002	.002	.002	.002	.002
14.7400	.002	.002	.002	.002	.002
14.8400	.002	.002	.002	.002	.002
14.9400	.002	.002	.002	.001	.001
15.0400	.001	.001	.001	.001	.001
15.1400	.001	.001	.001	.001	.001
15.2400	.001	.001	.001	.001	.001
15.3400	.001	.001	.001	.001	.001
15.4400	.001	.001	.001	.001	.001
15.5400	.001	.001	.001	.001	.001
15.6400	.001	.001	.001	.001	.001
15.7400	.001	.001	.001	.001	.001
15.8400	.001	.001	.001	.001	.001
15.9400	.001	.001	.001	.001	.001
16.0400	.001	.001	.001	.001	.001
16.1400	.001	.001	.001	.001	.001
16.2400	.001	.001	.001	.001	.001
16.3400	.001	.001	.001	.001	.001
16.4400	.001	.001	.001	.001	.001
16.5400	.001	.001	.001	.001	.001
16.6400	.001	.001	.001	.001	.001
16.7400	.001	.001	.001	.001	.001
16.8400	.001	.001	.001	.001	.001
16.9400	.001	.001	.001	.001	.001
17.0400	.001	.001	.001	.001	.001
17.1400	.001	.001	.001	.001	.001
17.2400	.001	.001	.001	.001	.001

17.3400	.001	.001	.001	.001	.001
17.4400	.001	.001	.001	.001	.001
17.5400	.001	.001	.001	.001	.001
17.6400	.001	.001	.001	.001	.001
17.7400	.001	.001	.001	.001	.001
17.8400	.001	.001	.001	.001	.001
17.9400	.001	.001	.001	.001	.001
18.0400	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.29

Name.... POND 10 OUT Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

TIME vs. VOLUME (ac-ft)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
18.1400	.001	.001	.001	.001	.001
18.2400	.001	.001	.001	.001	.001
18.3400	.001	.001	.001	.001	.001
18.4400	.001	.001	.001	.001	.001
18.5400	.001	.001	.001	.001	.001
18.6400	.001	.001	.001	.001	.001
18.7400	.001	.001	.001	.001	.001
18.8400	.001	.001	.001	.001	.001
18.9400	.001	.001	.001	.001	.001
19.0400	.001	.001	.001	.001	.001
19.1400	.001	.001	.001	.001	.001
19.2400	.001	.001	.001	.001	.001
19.3400	.001	.001	.001	.001	.001
19.4400	.001	.001	.001	.001	.001
19.5400	.001	.001	.001	.001	.001
19.6400	.001	.001	.001	.001	.001
19.7400	.001	.001	.001	.001	.001
19.8400	.001	.001	.001	.001	.001
19.9400	.001	.001	.001	.001	.001
20.0400	.001	.001	.001	.001	.001
20.1400	.001	.001	.001	.001	.001
20.2400	.001	.001	.001	.001	.001
20.3400	.001	.001	.001	.001	.001
20.4400	.001	.001	.001	.001	.001
20.5400	.001	.001	.001	.001	.001
20.6400	.001	.001	.001	.001	.001
20.7400	.001	.001	.001	.001	.001
20.8400	.001	.001	.001	.001	.001

20.9400	.001	.001	.001	.001	.001
21.0400	.001	.001	.001	.001	.001
21.1400	.001	.001	.001	.001	.001
21.2400	.001	.001	.001	.001	.001
21.3400	.001	.001	.001	.001	.001
21.4400	.001	.001	.001	.001	.001
21.5400	.001	.001	.001	.001	.001
21.6400	.001	.001	.001	.001	.001
21.7400	.001	.001	.001	.001	.001
21.8400	.001	.001	.001	.001	.001
21.9400	.001	.001	.001	.001	.001
22.0400	.001	.001	.001	.001	.001
22.1400	.001	.001	.001	.001	.001
22.2400	.001	.001	.001	.001	.001
22.3400	.001	.001	.001	.001	.001
22.4400	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Time vs. Volume

Page 11.30

Name.... POND 10 OUT Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

TIME vs. VOLUME (ac-ft)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
22.5400	.001	.001	.001	.001	.001
22.6400	.001	.001	.001	.001	.001
22.7400	.001	.001	.001	.001	.001
22.8400	.001	.001	.001	.001	.001
22.9400	.001	.001	.001	.001	.001
23.0400	.001	.001	.001	.001	.001
23.1400	.001	.001	.001	.001	.001
23.2400	.001	.001	.001	.001	.001
23.3400	.001	.001	.001	.001	.001
23.4400	.001	.001	.001	.001	.001
23.5400	.001	.001	.001	.001	.001
23.6400	.001	.001	.001	.001	.001
23.7400	.001	.001	.001	.001	.001
23.8400	.001	.001	.001	.001	.001
23.9400	.001	.001	.001	.001	.001
24.0400	.001	.001	.001	.001	.001
24.1400	.001	.001	.001	.001	.001

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Vol: Pipe  
 Name.... POND 10

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

COMPUTED VOLUMES FOR A PIPE

US Invert Elev.= 592.26 ft  
 DS Invert Elev.= 592.26 ft  
 Barrel Length = 42.00 ft  
 Computed Slope = .000000 ft/ft  
 Diameter = 6.0000 ft  
 # of Barrels = 1.00  
  
 Slice Width = 10.00 ft  
 Vertical Incr. = .25 ft

Elevation (ft)	Perpendicular DS Depth (ft)	Perpendicular DS Area (sq.ft)	Wetted Length (ft)	Filled Length (ft)	Perpendicular US Depth (ft)	Perpendicular US Area (sq.ft)	Total Volume (ac-ft)
592.26	.00	.0000	42.00	.00	.00	.0000	.000
592.51	.25	.4031	42.00	.00	.25	.4031	.000
592.76	.50	1.1254	42.00	.00	.50	1.1254	.001
593.01	.75	2.0399	42.00	.00	.75	2.0399	.002
593.26	1.00	3.0975	42.00	.00	1.00	3.0975	.003
593.51	1.25	4.2675	42.00	.00	1.25	4.2675	.004
593.76	1.50	5.5277	42.00	.00	1.50	5.5277	.005
594.01	1.75	6.8602	42.00	.00	1.75	6.8602	.007
594.26	2.00	8.2502	42.00	.00	2.00	8.2502	.008
594.51	2.25	9.6845	42.00	.00	2.25	9.6845	.009
594.76	2.50	11.1511	42.00	.00	2.50	11.1511	.011
595.01	2.75	12.6389	42.00	.00	2.75	12.6389	.012
595.26	3.00	14.1372	42.00	.00	3.00	14.1372	.014
595.51	3.25	15.6354	42.00	.00	3.25	15.6354	.015
595.76	3.50	17.1232	42.00	.00	3.50	17.1232	.017
596.01	3.75	18.5898	42.00	.00	3.75	18.5898	.018
596.26	4.00	20.0241	42.00	.00	4.00	20.0241	.019
596.51	4.25	21.4141	42.00	.00	4.25	21.4141	.021
596.76	4.50	22.7467	42.00	.00	4.50	22.7467	.022
597.01	4.75	24.0068	42.00	.00	4.75	24.0068	.023
597.26	5.00	25.1769	42.00	.00	5.00	25.1769	.024
597.51	5.25	26.2344	42.00	.00	5.25	26.2344	.025
597.76	5.50	27.1489	42.00	.00	5.50	27.1489	.026
598.01	5.75	27.8712	42.00	.00	5.75	27.8712	.027
598.26	6.00	28.2743	42.00	42.00	6.00	28.2743	.027

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Outlet Input Data  
Name.... Outlet 1

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

REQUESTED POND WS ELEVATIONS:

Min. Elev.= 592.26 ft  
Increment = .25 ft  
Max. Elev.= 598.26 ft

\*\*\*\*\*  
OUTLET CONNECTIVITY  
\*\*\*\*\*

---> Forward Flow Only (UpStream to DnStream)  
<--- Reverse Flow Only (DnStream to UpStream)  
<---> Forward and Reverse Both Allowed

Structure	No.		Outfall	E1, ft	E2, ft
Orifice-Area	00	--->	C0	592.260	598.260
Weir-Rectangular	W0	--->	C0	595.260	598.260
Culvert-Circular	C0	--->	TW	592.760	598.260
TW SETUP, DS Channel					

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Outlet Input Data  
Name.... Outlet 1

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID = 00  
Structure Type = Orifice-Area  
-----  
# of Openings = 1  
Invert Elev. = 592.26 ft  
Area = .1960 sq.ft  
Top of Orifice = .00 ft  
Datum Elev. = 592.26 ft

Orifice Coeff. = .600

Structure ID = W0  
Structure Type = Weir-Rectangular

-----  
# of Openings = 1  
Crest Elev. = 595.26 ft  
Weir Length = 6.00 ft  
Weir Coeff. = 3.330000

Weir TW effects (Use adjustment equation)

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Outlet Input Data  
Name.... Outlet 1

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File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

#### OUTLET STRUCTURE INPUT DATA

Structure ID = C0  
Structure Type = Culvert-Circular

-----  
No. Barrels = 1  
Barrel Diameter = 2.0000 ft  
Upstream Invert = 592.76 ft  
Dnstream Invert = 592.24 ft  
Horiz. Length = 76.00 ft  
Barrel Length = 76.00 ft  
Barrel Slope = .00684 ft/ft

#### OUTLET CONTROL DATA...

Mannings n = .0120  
Ke = .2000 (forward entrance loss)  
Kb = .010575 (per ft of full flow)  
Kr = .2000 (reverse entrance loss)  
HW Convergence = .001 +/- ft

#### INLET CONTROL DATA...

Equation form = 1  
Inlet Control K = .0045  
Inlet Control M = 2.0000  
Inlet Control c = .03170

Inlet Control Y = .6900  
 T1 ratio (HW/D) = 1.092  
 T2 ratio (HW/D) = 1.194  
 Slope Factor = -.500

Use unsubmerged inlet control Form 1 equ. below T1 elev.  
 Use submerged inlet control Form 1 equ. above T2 elev.

In transition zone between unsubmerged and submerged inlet control,  
 interpolate between flows at T1 & T2...

At T1 Elev = 594.94 ft ---> Flow = 15.55 cfs  
 At T2 Elev = 595.15 ft ---> Flow = 17.77 cfs

Structure ID = TW  
 Structure Type = TW SETUP, DS Channel

-----  
 FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...  
 Maximum Iterations= 40  
 Min. TW tolerance = .01 ft  
 Max. TW tolerance = .01 ft  
 Min. HW tolerance = .01 ft  
 Max. HW tolerance = .01 ft  
 Min. Q tolerance = .00 cfs  
 Max. Q tolerance = .00 cfs

S/N:  
 PondPack Ver: Compute Time: Date:

↑  
 Type.... Individual Outlet Curves Page 13.04  
 Name.... Outlet 1

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = 00 (Orifice-Area)  
 -----  
 Upstream ID = (Pond Water Surface)  
 DNstream ID = C0 (Culvert-Circular)

Pond WS. Elev. ft	Device Q cfs	(into) HW HGL ft	Converge DS HGL ft	Next DS HGL ft	DS HGL Error +/-ft	Q SUM Error +/-cfs	DS Chan. TW ft	TW Error +/-ft
592.26	.00	...	...	...	...	...	Free Outfall	

592.51	.00	...	...	...	...	...	Free Outfall
							WS below an invert; no flow.
592.76	.00	...	...	...	...	...	Free Outfall
							WS below an invert; no flow.
593.01	.19	593.01	592.97	592.97	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=.04
593.26	.41	593.26	593.07	593.07	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=.19
593.51	.58	593.51	593.13	593.13	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=.38
593.76	.72	593.76	593.17	593.17	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=.59
594.01	.84	594.01	593.21	593.21	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=.80
594.26	.95	594.26	593.24	593.24	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=1.02
594.51	1.05	594.51	593.26	593.26	.001	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=1.25
594.76	1.15	594.76	593.28	593.28	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=1.48
595.01	1.23	595.01	593.30	593.30	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=1.71
595.26	1.31	595.26	593.32	593.32	.001	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=1.94
595.51	1.26	595.51	593.74	593.74	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=1.77
595.76	1.15	595.76	594.26	594.26	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=1.50
596.01	1.03	596.01	594.83	594.83	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=1.18
596.26	.85	596.26	595.45	595.45	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=.81
596.51	.71	596.51	595.94	595.94	.000	.000	Free Outfall
							CHARGED RISER: Orifice Equation Control to TW; H=.57

S/N:

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Compute Time:

Date:



Type.... Individual Outlet Curves

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Name.... Outlet 1

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = 00 (Orifice-Area)

-----  
Upstream ID = (Pond Water Surface)



DNstream ID = C0 (Culvert-Circular)

Pond WS. Elev. ft	Device Q cfs	(into) HW HGL ft	Converge DS HGL ft	Next DS HGL ft	DS HGL Error +/-ft	Q SUM Error +/-cfs	DS Chan. TW ft	TW Error +/-ft
596.76	.61	596.76	596.34	596.34	.000	.000	Free Outfall	
		CHARGED RISER: Orifice Equation Control to TW; H=.42						
597.01	.53	597.01	596.69	596.69	.000	.000	Free Outfall	
		CHARGED RISER: Orifice Equation Control to TW; H=.32						
597.26	.47	597.26	597.01	597.01	.000	.000	Free Outfall	
		CHARGED RISER: Orifice Equation Control to TW; H=.25						
597.51	.43	597.51	597.31	597.31	.000	.000	Free Outfall	
		CHARGED RISER: Orifice Equation Control to TW; H=.20						
597.76	.39	597.76	597.59	597.59	.000	.000	Free Outfall	
		CHARGED RISER: Orifice Equation Control to TW; H=.17						
598.01	.35	598.01	597.87	597.87	.000	.000	Free Outfall	
		CHARGED RISER: Orifice Equation Control to TW; H=.14						
598.26	.33	598.26	598.14	598.14	.000	.000	Free Outfall	
		CHARGED RISER: Orifice Equation Control to TW; H=.12						

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Individual Outlet Curves

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Name.... Outlet 1

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = W0 (Weir-Rectangular)

Upstream ID = (Pond Water Surface)

DNstream ID = C0 (Culvert-Circular)

Pond WS. Elev. ft	Device Q cfs	(into) HW HGL ft	Converge DS HGL ft	Next DS HGL ft	DS HGL Error +/-ft	Q SUM Error +/-cfs	DS Chan. TW ft	TW Error +/-ft
592.26	.00	...	...	...	...	...	Free Outfall	
		WS below an invert; no flow.						
592.51	.00	...	...	...	...	...	Free Outfall	
		WS below an invert; no flow.						
592.76	.00	...	...	...	...	...	Free Outfall	
		WS below an invert; no flow.						
593.01	.00	...	...	...	...	...	Free Outfall	
		WS below an invert; no flow.						

593.26	.00	...	...	...	...	...	Free Outfall
		WS below an invert; no flow.					
593.51	.00	...	...	...	...	...	Free Outfall
		WS below an invert; no flow.					
593.76	.00	...	...	...	...	...	Free Outfall
		WS below an invert; no flow.					
594.01	.00	...	...	...	...	...	Free Outfall
		WS below an invert; no flow.					
594.26	.00	...	...	...	...	...	Free Outfall
		WS below an invert; no flow.					
594.51	.00	...	...	...	...	...	Free Outfall
		WS below an invert; no flow.					
594.76	.00	...	...	...	...	...	Free Outfall
		WS below an invert; no flow.					
595.01	.00	...	...	...	...	...	Free Outfall
		WS below an invert; no flow.					
595.26	.00	...	...	...	...	...	Free Outfall
		WS below an invert; no flow.					
595.51	2.50	595.51	Free	593.74	.000	.000	Free Outfall
		H=.25; Htw=.00; Qfree=2.50;					
595.76	7.06	595.76	Free	594.26	.000	.000	Free Outfall
		H=.50; Htw=.00; Qfree=7.06;					
596.01	12.98	596.01	Free	594.83	.000	.000	Free Outfall
		H=.75; Htw=.00; Qfree=12.98;					
596.26	19.35	596.26	595.45	595.45	.000	.000	Free Outfall
		H=1.00; Htw=.19; Qfree=19.98;					
596.51	22.95	596.51	595.94	595.94	.000	.000	Free Outfall
		H=1.25; Htw=.68; Qfree=27.92;					

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Individual Outlet Curves

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Name.... Outlet 1

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = W0 (Weir-Rectangular)

Upstream ID = (Pond Water Surface)

DNstream ID = C0 (Culvert-Circular)

Pond WS. Elev. ft	Device Q cfs	(into) HW HGL ft	Converge DS HGL ft	Next DS HGL ft	DS HGL Error +/-ft	Q SUM Error +/-cfs	DS Chan. TW ft	TW Error +/-ft
596.76	25.54	596.76	596.34	596.34	.000	.000	Free Outfall	

H=1.50; Htw=1.08; Qfree=36.71;  
 597.01 27.64 597.01 596.69 596.69 .000 .000 Free Outfall  
 H=1.75; Htw=1.43; Qfree=46.25;  
 597.26 29.40 597.26 597.01 597.01 .000 .000 Free Outfall  
 H=2.00; Htw=1.75; Qfree=56.51;  
 597.51 30.98 597.51 597.31 597.31 .000 .000 Free Outfall  
 H=2.25; Htw=2.05; Qfree=67.43;  
 597.76 32.40 597.76 597.59 597.59 .000 .000 Free Outfall  
 H=2.50; Htw=2.33; Qfree=78.98;  
 598.01 33.70 598.01 597.87 597.87 .000 .000 Free Outfall  
 H=2.75; Htw=2.61; Qfree=91.12;  
 598.26 34.95 598.26 598.14 598.14 .000 .000 Free Outfall  
 H=3.00; Htw=2.88; Qfree=103.82;

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Individual Outlet Curves  
 Name.... Outlet 1

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File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = C0 (Culvert-Circular)

Mannings open channel maximum capacity: 21.81 cfs

UPstream ID's= 00, W0

DNstream ID = TW (Pond Outfall)

Pond WS. Elev. ft	Device Q cfs	(into) HW HGL ft	Converge DS HGL ft	Next DS HGL ft	DS HGL Error +/-ft	Q SUM Error +/-cfs	DS Chan. TW ft	TW Error +/-ft
592.26	.00	...	...	...	...	...	Free Outfall	
		WS below an invert; no flow.						
592.51	.00	...	...	...	...	...	Free Outfall	
		WS below an invert; no flow.						
592.76	.00	...	...	...	...	...	Free Outfall	
		WS below an invert; no flow.						
593.01	.19	592.97	Free	Free	.000	.001	Free Outfall	
.00ft		CRIT.DEPTH	CONTROL	Vh= .051ft	Dcr= .149ft		CRIT.DEPTH	Hev=
593.26	.41	593.07	Free	Free	.000	.000	Free Outfall	
.00ft		CRIT.DEPTH	CONTROL	Vh= .075ft	Dcr= .220ft		CRIT.DEPTH	Hev=
593.51	.58	593.13	Free	Free	.000	.002	Free Outfall	
		CRIT.DEPTH	CONTROL	Vh= .090ft	Dcr= .261ft		CRIT.DEPTH	Hev=

.00ft	593.76	.72	593.17	Free	Free	.000	.002	Free Outfall
			CRIT.DEPTH CONTROL	Vh= .100ft	Dcr= .291ft			CRIT.DEPTH Hev=
.00ft	594.01	.84	593.21	Free	Free	.000	.000	Free Outfall
			CRIT.DEPTH CONTROL	Vh= .109ft	Dcr= .316ft			CRIT.DEPTH Hev=
.00ft	594.26	.95	593.24	Free	Free	.000	.001	Free Outfall
			CRIT.DEPTH CONTROL	Vh= .116ft	Dcr= .336ft			CRIT.DEPTH Hev=
.00ft	594.51	1.05	593.26	Free	Free	.000	.001	Free Outfall
			CRIT.DEPTH CONTROL	Vh= .123ft	Dcr= .353ft			CRIT.DEPTH Hev=
.00ft	594.76	1.15	593.28	Free	Free	.000	.000	Free Outfall
			CRIT.DEPTH CONTROL	Vh= .128ft	Dcr= .369ft			CRIT.DEPTH Hev=
.00ft	595.01	1.23	593.30	Free	Free	.000	.001	Free Outfall
			CRIT.DEPTH CONTROL	Vh= .133ft	Dcr= .383ft			CRIT.DEPTH Hev=
.00ft	595.26	1.32	593.32	Free	Free	.000	.000	Free Outfall
			CRIT.DEPTH CONTROL	Vh= .138ft	Dcr= .396ft			CRIT.DEPTH Hev=
.00ft	595.51	3.75	593.74	Free	Free	.000	.000	Free Outfall
			CRIT.DEPTH CONTROL	Vh= .248ft	Dcr= .679ft			CRIT.DEPTH Hev=
.00ft	595.76	8.22	594.26	Free	Free	.000	.003	Free Outfall
			CRIT.DEPTH CONTROL	Vh= .403ft	Dcr= 1.021ft			CRIT.DEPTH Hev=
.00ft	596.01	14.00	594.83	Free	Free	.000	.005	Free Outfall
			CRIT.DEPTH CONTROL	Vh= .600ft	Dcr= 1.348ft			CRIT.DEPTH Hev=
.00ft	596.26	20.22	595.45	Free	Free	.000	.017	Free Outfall
			INLET CONTROL...	Submerged: HW =2.69				
	596.51	23.70	595.94	Free	Free	.000	.000	Free Outfall
			INLET CONTROL...	Submerged: HW =3.18				

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Individual Outlet Curves

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Name.... Outlet 1

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

RATING TABLE FOR ONE OUTLET TYPE

Structure ID = C0 (Culvert-Circular)

-----  
Mannings open channel maximum capacity: 21.81 cfs

UPstream ID's= 00, W0  
 DNstream ID = TW (Pond Outfall)

Pond WS. Elev. ft	Device Q cfs	(into) HW HGL ft	Converge DS HGL ft	Next DS HGL ft	DS HGL Error +/-ft	Q SUM Error +/-cfs	DS Chan. TW ft	TW Error +/-ft
596.76	26.20	596.34	Free	Free	.000	.000	Free	Outfall
		INLET CONTROL...		Submerged:	HW =3.58			
597.01	28.20	596.69	Free	Free	.000	.000	Free	Outfall
		INLET CONTROL...		Submerged:	HW =3.93			
597.26	29.92	597.01	Free	Free	.000	.000	Free	Outfall
		INLET CONTROL...		Submerged:	HW =4.25			
597.51	31.42	597.31	Free	Free	.000	.011	Free	Outfall
		FULL FLOW...Lfull=70.96ft		Vh=1.554ft	HL=3.032ft	Hev= .00ft		
597.76	32.79	597.59	Free	Free	.000	.003	Free	Outfall
		FULL FLOW...Lfull=72.47ft		Vh=1.693ft	HL=3.328ft	Hev= .00ft		
598.01	34.06	597.87	Free	Free	.000	.015	Free	Outfall
		FULL FLOW...Lfull=73.49ft		Vh=1.827ft	HL=3.612ft	Hev= .00ft		
598.26	35.29	598.14	Free	Free	.000	.007	Free	Outfall
		FULL FLOW...Lfull=73.91ft		Vh=1.961ft	HL=3.885ft	Hev= .00ft		

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Composite Rating Curve  
 Name.... Outlet 1

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\*\*\*\*\* COMPOSITE OUTFLOW SUMMARY \*\*\*\*\*

WS Elev, Elev. ft	Total Q Q cfs	Notes Converge TW Elev ft	Error +/-ft	Contributing Structures
592.26	.00	Free	Outfall	(no Q: 00,W0,C0)
592.51	.00	Free	Outfall	(no Q: 00,W0,C0)
592.76	.00	Free	Outfall	(no Q: 00,W0,C0)
593.01	.19	Free	Outfall	00,C0 (no Q: W0)
593.26	.41	Free	Outfall	00,C0 (no Q: W0)
593.51	.58	Free	Outfall	00,C0 (no Q: W0)
593.76	.72	Free	Outfall	00,C0 (no Q: W0)
594.01	.84	Free	Outfall	00,C0 (no Q: W0)
594.26	.95	Free	Outfall	00,C0 (no Q: W0)
594.51	1.05	Free	Outfall	00,C0 (no Q: W0)
594.76	1.15	Free	Outfall	00,C0 (no Q: W0)

595.01	1.23	Free Outfall	00,C0 (no Q: W0)
595.26	1.31	Free Outfall	00,C0 (no Q: W0)
595.51	3.75	Free Outfall	00,W0,C0
595.76	8.22	Free Outfall	00,W0,C0
596.01	14.00	Free Outfall	00,W0,C0
596.26	20.22	Free Outfall	00,W0,C0
596.51	23.66	Free Outfall	00,W0,C0
596.76	26.16	Free Outfall	00,W0,C0
597.01	28.17	Free Outfall	00,W0,C0
597.26	29.87	Free Outfall	00,W0,C0
597.51	31.42	Free Outfall	00,W0,C0
597.76	32.79	Free Outfall	00,W0,C0
598.01	34.06	Free Outfall	00,W0,C0
598.26	35.29	Free Outfall	00,W0,C0

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond E-V-Q Table

Page 14.01

Name.... POND 10

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

LEVEL POOL ROUTING DATA

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Inflow HYG file = NONE STORED - POND 10 IN 2  
 Outflow HYG file = NONE STORED - POND 10 OUT 2

Pond Node Data = POND 10  
 Pond Volume Data = POND 10  
 Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

-----  
 Starting WS Elev = 592.26 ft  
 Starting Volume = .000 ac-ft  
 Starting Outflow = .00 cfs  
 Starting Infiltr. = .00 cfs  
 Starting Total Qout= .00 cfs  
 Time Increment = .0200 hrs

Elevation ft	Outflow cfs	Storage ac-ft	Infiltr. cfs	Q Total cfs	2S/t + 0 cfs
592.26	.00	.000	.00	.00	.00
592.51	.00	.000	.00	.00	.47
592.76	.00	.001	.00	.00	1.31
593.01	.19	.002	.00	.19	2.57

593.26	.41	.003	.00	.41	4.03
593.51	.58	.004	.00	.58	5.56
593.76	.72	.005	.00	.72	7.17
594.01	.84	.007	.00	.84	8.85
594.26	.95	.008	.00	.95	10.58
594.51	1.05	.009	.00	1.05	12.35
594.76	1.15	.011	.00	1.15	14.16
595.01	1.23	.012	.00	1.23	15.98
595.26	1.31	.014	.00	1.31	17.81
595.51	3.75	.015	.00	3.75	22.00
595.76	8.22	.017	.00	8.22	28.20
596.01	14.00	.018	.00	14.00	35.69
596.26	20.22	.019	.00	20.22	43.58
596.51	23.66	.021	.00	23.66	48.65
596.76	26.16	.022	.00	26.16	52.69
597.01	28.17	.023	.00	28.17	56.18

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond E-V-Q Table

Page 14.02

Name.... POND 10

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

LEVEL POOL ROUTING DATA

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Inflow HYG file = NONE STORED - POND 10 IN 2  
 Outflow HYG file = NONE STORED - POND 10 OUT 2

Pond Node Data = POND 10  
 Pond Volume Data = POND 10  
 Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

-----  
 Starting WS Elev = 592.26 ft  
 Starting Volume = .000 ac-ft  
 Starting Outflow = .00 cfs  
 Starting Infiltr. = .00 cfs  
 Starting Total Qout= .00 cfs  
 Time Increment = .0200 hrs

Elevation ft	Outflow cfs	Storage ac-ft	Infilt. cfs	Q Total cfs	2S/t + 0 cfs
597.26	29.87	.024	.00	29.87	59.24
597.51	31.42	.025	.00	31.42	62.03

597.76	32.79	.026	.00	32.79	64.46
598.01	34.06	.027	.00	34.06	66.58
598.26	35.29	.027	.00	35.29	68.27

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.03

Name.... POND 10 IN

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: POND 10 IN

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID      HYG tag
-----
ADDLINK 20        SUBAREA 20                SUBAREA 20    2
=====

```

INFLOWS TO: POND 10 IN

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
ac-ft         hrs          cfs
-----
                SUBAREA 20    2            .096        11.9200       1.59

```

TOTAL FLOW INTO: POND 10 IN

```

-----
HYG file      HYG ID      HYG tag      Volume      Peak Time      Peak Flow
ac-ft         hrs          cfs
-----
                POND 10     IN  2            .096        11.9200       1.59

```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.04

Name.... POND 10 IN

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

TOTAL NODE INFLOW...  
HYG file =  
HYG ID = POND 10 IN  
HYG Tag = 2



-----  
Peak Discharge = 1.59 cfs  
Time to Peak = 11.9200 hrs  
HYG Volume = .096 ac-ft  
-----

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
1.5000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.7000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
1.9000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.1000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.3000	.00	.00	.00	.00	.00
2.4000	.00	.00	.00	.00	.00
2.5000	.01	.01	.01	.01	.01
2.6000	.01	.01	.01	.01	.01
2.7000	.01	.01	.01	.01	.01
2.8000	.01	.01	.01	.01	.01
2.9000	.01	.01	.01	.01	.01
3.0000	.01	.01	.01	.01	.01
3.1000	.01	.01	.01	.01	.01
3.2000	.01	.01	.01	.01	.01
3.3000	.01	.01	.01	.01	.01
3.4000	.01	.01	.01	.01	.01
3.5000	.01	.01	.01	.01	.01
3.6000	.01	.01	.01	.01	.01
3.7000	.01	.01	.01	.01	.01
3.8000	.01	.01	.01	.01	.01
3.9000	.01	.01	.01	.01	.01
4.0000	.01	.01	.01	.01	.01
4.1000	.01	.01	.01	.01	.01
4.2000	.01	.01	.01	.01	.01
4.3000	.01	.01	.01	.01	.01
4.4000	.01	.01	.01	.01	.01
4.5000	.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.05

Name.... POND 10 IN

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
4.6000	.01	.01	.01	.01	.01
4.7000	.01	.01	.01	.01	.01
4.8000	.01	.01	.01	.01	.01
4.9000	.01	.01	.01	.01	.01
5.0000	.01	.01	.01	.01	.01
5.1000	.01	.01	.01	.01	.01
5.2000	.01	.01	.01	.01	.01
5.3000	.01	.01	.01	.01	.01
5.4000	.01	.01	.01	.01	.01
5.5000	.02	.02	.02	.02	.02
5.6000	.02	.02	.02	.02	.02
5.7000	.02	.02	.02	.02	.02
5.8000	.02	.02	.02	.02	.02
5.9000	.02	.02	.02	.02	.02
6.0000	.02	.02	.02	.02	.02
6.1000	.02	.02	.02	.02	.02
6.2000	.02	.02	.02	.02	.02
6.3000	.02	.02	.02	.02	.02
6.4000	.02	.02	.02	.02	.02
6.5000	.02	.02	.02	.02	.02
6.6000	.02	.02	.02	.02	.02
6.7000	.02	.02	.02	.02	.02
6.8000	.02	.02	.02	.02	.02
6.9000	.02	.02	.02	.02	.02
7.0000	.02	.02	.02	.02	.02
7.1000	.02	.02	.02	.02	.02
7.2000	.02	.02	.02	.02	.02
7.3000	.02	.02	.02	.02	.02
7.4000	.02	.02	.02	.02	.02
7.5000	.02	.02	.02	.02	.02
7.6000	.02	.02	.02	.02	.02
7.7000	.02	.02	.02	.02	.02
7.8000	.02	.02	.02	.02	.02
7.9000	.02	.02	.02	.02	.02
8.0000	.02	.02	.02	.02	.02
8.1000	.02	.02	.02	.02	.02
8.2000	.03	.03	.03	.03	.03
8.3000	.03	.03	.03	.03	.03
8.4000	.03	.03	.03	.03	.03
8.5000	.03	.03	.03	.03	.03
8.6000	.03	.03	.03	.03	.03
8.7000	.03	.03	.03	.03	.03
8.8000	.03	.03	.03	.03	.03
8.9000	.03	.03	.03	.03	.03
9.0000	.03	.03	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.06

Name.... POND 10 IN

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
9.1000	.04	.04	.04	.04	.04
9.2000	.04	.04	.04	.04	.04
9.3000	.04	.04	.04	.04	.04
9.4000	.04	.04	.04	.04	.04
9.5000	.04	.04	.04	.04	.04
9.6000	.04	.04	.04	.04	.04
9.7000	.04	.04	.04	.04	.04
9.8000	.04	.04	.04	.04	.04
9.9000	.04	.04	.04	.04	.04
10.0000	.04	.05	.05	.05	.05
10.1000	.05	.05	.05	.05	.05
10.2000	.05	.05	.05	.05	.05
10.3000	.05	.05	.05	.05	.06
10.4000	.06	.06	.06	.06	.06
10.5000	.06	.06	.06	.06	.06
10.6000	.06	.06	.06	.07	.07
10.7000	.07	.07	.07	.07	.07
10.8000	.07	.07	.07	.08	.08
10.9000	.08	.08	.08	.08	.08
11.0000	.08	.08	.08	.09	.09
11.1000	.09	.09	.09	.10	.10
11.2000	.10	.10	.11	.11	.11
11.3000	.11	.11	.12	.12	.12
11.4000	.12	.13	.13	.13	.13
11.5000	.14	.15	.17	.21	.25
11.6000	.27	.29	.35	.43	.49
11.7000	.53	.57	.65	.75	.83
11.8000	.88	.95	1.10	1.31	1.47
11.9000	1.57	1.59	1.53	1.41	1.31
12.0000	1.25	1.16	.97	.71	.51
12.1000	.38	.32	.27	.24	.23
12.2000	.22	.21	.20	.19	.19
12.3000	.18	.18	.17	.17	.16
12.4000	.15	.15	.14	.14	.13
12.5000	.13	.12	.12	.11	.11
12.6000	.11	.11	.10	.10	.10
12.7000	.10	.10	.10	.10	.09
12.8000	.09	.09	.09	.09	.09

12.9000	.09	.09	.08	.08	.08
13.0000	.08	.08	.08	.08	.08
13.1000	.07	.07	.07	.07	.07
13.2000	.07	.07	.07	.07	.07
13.3000	.07	.07	.07	.07	.06
13.4000	.06	.06	.06	.06	.06
13.5000	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.07

Name.... POND 10 IN

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
13.6000	.06	.06	.06	.06	.06
13.7000	.06	.05	.05	.05	.05
13.8000	.05	.05	.05	.05	.05
13.9000	.05	.05	.05	.05	.05
14.0000	.05	.05	.05	.05	.05
14.1000	.05	.05	.05	.05	.04
14.2000	.04	.04	.04	.04	.04
14.3000	.04	.04	.04	.04	.04
14.4000	.04	.04	.04	.04	.04
14.5000	.04	.04	.04	.04	.04
14.6000	.04	.04	.04	.04	.04
14.7000	.04	.04	.04	.04	.04
14.8000	.04	.04	.04	.04	.04
14.9000	.04	.04	.04	.04	.04
15.0000	.04	.04	.04	.04	.04
15.1000	.04	.04	.04	.04	.04
15.2000	.04	.04	.04	.04	.04
15.3000	.04	.04	.03	.03	.03
15.4000	.03	.03	.03	.03	.03
15.5000	.03	.03	.03	.03	.03
15.6000	.03	.03	.03	.03	.03
15.7000	.03	.03	.03	.03	.03
15.8000	.03	.03	.03	.03	.03
15.9000	.03	.03	.03	.03	.03
16.0000	.03	.03	.03	.03	.03
16.1000	.03	.03	.03	.03	.03
16.2000	.03	.03	.03	.03	.03
16.3000	.03	.03	.03	.03	.03
16.4000	.03	.03	.03	.03	.03
16.5000	.03	.03	.03	.03	.03

16.6000	.03	.03	.03	.03	.03
16.7000	.03	.03	.03	.03	.03
16.8000	.03	.03	.03	.03	.03
16.9000	.03	.03	.03	.03	.03
17.0000	.03	.03	.03	.03	.03
17.1000	.03	.03	.03	.03	.03
17.2000	.03	.03	.02	.02	.02
17.3000	.02	.02	.02	.02	.02
17.4000	.02	.02	.02	.02	.02
17.5000	.02	.02	.02	.02	.02
17.6000	.02	.02	.02	.02	.02
17.7000	.02	.02	.02	.02	.02
17.8000	.02	.02	.02	.02	.02
17.9000	.02	.02	.02	.02	.02
18.0000	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.08

Name.... POND 10 IN

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
18.1000	.02	.02	.02	.02	.02
18.2000	.02	.02	.02	.02	.02
18.3000	.02	.02	.02	.02	.02
18.4000	.02	.02	.02	.02	.02
18.5000	.02	.02	.02	.02	.02
18.6000	.02	.02	.02	.02	.02
18.7000	.02	.02	.02	.02	.02
18.8000	.02	.02	.02	.02	.02
18.9000	.02	.02	.02	.02	.02
19.0000	.02	.02	.02	.02	.02
19.1000	.02	.02	.02	.02	.02
19.2000	.02	.02	.02	.02	.02
19.3000	.02	.02	.02	.02	.02
19.4000	.02	.02	.02	.02	.02
19.5000	.02	.02	.02	.02	.02
19.6000	.02	.02	.02	.02	.02
19.7000	.02	.02	.02	.02	.02
19.8000	.02	.02	.02	.02	.02
19.9000	.02	.02	.02	.02	.02
20.0000	.02	.02	.02	.02	.02
20.1000	.02	.02	.02	.02	.02
20.2000	.02	.02	.02	.02	.02

20.3000	.02	.02	.02	.02	.02
20.4000	.02	.02	.02	.02	.02
20.5000	.02	.02	.02	.02	.02
20.6000	.02	.02	.02	.02	.02
20.7000	.02	.02	.02	.02	.02
20.8000	.02	.02	.02	.02	.02
20.9000	.02	.02	.02	.02	.02
21.0000	.02	.02	.02	.02	.02
21.1000	.02	.02	.02	.02	.02
21.2000	.02	.02	.02	.02	.02
21.3000	.02	.02	.02	.02	.02
21.4000	.02	.02	.02	.02	.02
21.5000	.02	.02	.02	.02	.02
21.6000	.02	.02	.02	.02	.02
21.7000	.02	.02	.02	.02	.02
21.8000	.02	.02	.02	.02	.02
21.9000	.02	.02	.02	.02	.01
22.0000	.01	.01	.01	.01	.01
22.1000	.01	.01	.01	.01	.01
22.2000	.01	.01	.01	.01	.01
22.3000	.01	.01	.01	.01	.01
22.4000	.01	.01	.01	.01	.01
22.5000	.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.09

Name.... POND 10 IN

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
22.6000	.01	.01	.01	.01	.01
22.7000	.01	.01	.01	.01	.01
22.8000	.01	.01	.01	.01	.01
22.9000	.01	.01	.01	.01	.01
23.0000	.01	.01	.01	.01	.01
23.1000	.01	.01	.01	.01	.01
23.2000	.01	.01	.01	.01	.01
23.3000	.01	.01	.01	.01	.01
23.4000	.01	.01	.01	.01	.01
23.5000	.01	.01	.01	.01	.01
23.6000	.01	.01	.01	.01	.01
23.7000	.01	.01	.01	.01	.01
23.8000	.01	.01	.01	.01	.01
23.9000	.01	.01	.01	.01	.01

24.0000	.01	.01	.01	.01	.00
24.1000	.00	.00	.00		

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.10

Name.... POND 10 IN

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: POND 10 IN

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

```

=====
Upstream Link ID  Upstream Node ID  HYG file      HYG ID        HYG tag
-----
ADDLINK 20       SUBAREA 20           SUBAREA 20     15
=====

```

INFLOWS TO: POND 10 IN

```

-----
HYG file          HYG ID          HYG tag         Volume          Peak Time       Peak Flow
ac-ft             hrs              cfs
-----
                SUBAREA 20      15              .160            11.9200         2.61
-----

```

TOTAL FLOW INTO: POND 10 IN

```

-----
HYG file          HYG ID          HYG tag         Volume          Peak Time       Peak Flow
ac-ft             hrs              cfs
-----
                POND 10        IN 15           .160            11.9200         2.61
-----

```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.11

Name.... POND 10 IN

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

TOTAL NODE INFLOW...

HYG file =  
HYG ID = POND 10 IN  
HYG Tag = 15

-----

Peak Discharge = 2.61 cfs  
 Time to Peak = 11.9200 hrs  
 HYG Volume = .160 ac-ft

-----

HYDROGRAPH ORDINATES (cfs)  
 Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
.9200	.00	.00	.00	.00	.00
1.0200	.00	.00	.00	.00	.00
1.1200	.00	.00	.00	.00	.00
1.2200	.00	.00	.00	.00	.00
1.3200	.00	.01	.01	.01	.01
1.4200	.01	.01	.01	.01	.01
1.5200	.01	.01	.01	.01	.01
1.6200	.01	.01	.01	.01	.01
1.7200	.01	.01	.01	.01	.01
1.8200	.01	.01	.01	.01	.01
1.9200	.01	.01	.01	.01	.01
2.0200	.01	.01	.01	.01	.01
2.1200	.01	.01	.01	.01	.01
2.2200	.01	.01	.01	.01	.01
2.3200	.01	.01	.01	.01	.01
2.4200	.01	.01	.01	.01	.01
2.5200	.01	.01	.01	.01	.01
2.6200	.01	.01	.01	.01	.01
2.7200	.01	.01	.02	.02	.02
2.8200	.02	.02	.02	.02	.02
2.9200	.02	.02	.02	.02	.02
3.0200	.02	.02	.02	.02	.02
3.1200	.02	.02	.02	.02	.02
3.2200	.02	.02	.02	.02	.02
3.3200	.02	.02	.02	.02	.02
3.4200	.02	.02	.02	.02	.02
3.5200	.02	.02	.02	.02	.02
3.6200	.02	.02	.02	.02	.02
3.7200	.02	.02	.02	.02	.02
3.8200	.02	.02	.02	.02	.02
3.9200	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)



Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
4.0200	.02	.02	.02	.02	.02
4.1200	.02	.02	.02	.02	.02
4.2200	.02	.02	.02	.02	.02
4.3200	.02	.02	.02	.02	.02
4.4200	.02	.02	.02	.02	.02
4.5200	.02	.02	.02	.02	.02
4.6200	.02	.02	.02	.02	.02
4.7200	.02	.02	.02	.03	.03
4.8200	.03	.03	.03	.03	.03
4.9200	.03	.03	.03	.03	.03
5.0200	.03	.03	.03	.03	.03
5.1200	.03	.03	.03	.03	.03
5.2200	.03	.03	.03	.03	.03
5.3200	.03	.03	.03	.03	.03
5.4200	.03	.03	.03	.03	.03
5.5200	.03	.03	.03	.03	.03
5.6200	.03	.03	.03	.03	.03
5.7200	.03	.03	.03	.03	.03
5.8200	.03	.03	.03	.03	.03
5.9200	.03	.03	.03	.03	.03
6.0200	.03	.03	.03	.03	.03
6.1200	.03	.03	.03	.03	.03
6.2200	.03	.03	.03	.03	.03
6.3200	.03	.03	.03	.03	.03
6.4200	.03	.03	.03	.03	.03
6.5200	.03	.03	.03	.03	.03
6.6200	.03	.03	.03	.03	.03
6.7200	.03	.04	.04	.04	.04
6.8200	.04	.04	.04	.04	.04
6.9200	.04	.04	.04	.04	.04
7.0200	.04	.04	.04	.04	.04
7.1200	.04	.04	.04	.04	.04
7.2200	.04	.04	.04	.04	.04
7.3200	.04	.04	.04	.04	.04
7.4200	.04	.04	.04	.04	.04
7.5200	.04	.04	.04	.04	.04
7.6200	.04	.04	.04	.04	.04
7.7200	.04	.04	.04	.04	.04
7.8200	.04	.04	.04	.04	.04
7.9200	.04	.04	.04	.04	.04
8.0200	.04	.04	.04	.04	.04
8.1200	.04	.04	.04	.04	.04
8.2200	.04	.04	.05	.05	.05
8.3200	.05	.05	.05	.05	.05
8.4200	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
8.5200	.05	.05	.05	.05	.05
8.6200	.05	.05	.05	.05	.05
8.7200	.05	.05	.06	.06	.06
8.8200	.06	.06	.06	.06	.06
8.9200	.06	.06	.06	.06	.06
9.0200	.06	.06	.06	.06	.06
9.1200	.06	.06	.06	.06	.06
9.2200	.06	.06	.06	.06	.06
9.3200	.06	.06	.06	.06	.06
9.4200	.06	.06	.06	.06	.06
9.5200	.06	.06	.06	.06	.06
9.6200	.06	.06	.07	.07	.07
9.7200	.07	.07	.07	.07	.07
9.8200	.07	.07	.07	.07	.07
9.9200	.07	.07	.07	.08	.08
10.0200	.08	.08	.08	.08	.08
10.1200	.08	.08	.08	.08	.08
10.2200	.09	.09	.09	.09	.09
10.3200	.09	.09	.09	.09	.09
10.4200	.09	.10	.10	.10	.10
10.5200	.10	.10	.10	.10	.11
10.6200	.11	.11	.11	.11	.11
10.7200	.11	.12	.12	.12	.12
10.8200	.12	.12	.13	.13	.13
10.9200	.13	.13	.13	.14	.14
11.0200	.14	.14	.15	.15	.15
11.1200	.15	.16	.16	.17	.17
11.2200	.17	.18	.18	.19	.19
11.3200	.19	.19	.20	.20	.21
11.4200	.21	.21	.22	.22	.23
11.5200	.24	.29	.35	.41	.44
11.6200	.48	.58	.71	.81	.88
11.7200	.95	1.07	1.24	1.37	1.45
11.8200	1.56	1.81	2.14	2.41	2.57
11.9200	2.61	2.50	2.31	2.14	2.04
12.0200	1.90	1.58	1.16	.83	.63
12.1200	.51	.44	.40	.37	.36
12.2200	.34	.33	.32	.30	.30
12.3200	.29	.28	.27	.26	.25

12.4200	.25	.24	.22	.21	.21
12.5200	.20	.19	.19	.18	.18
12.6200	.17	.17	.17	.16	.16
12.7200	.16	.16	.16	.15	.15
12.8200	.15	.15	.14	.14	.14
12.9200	.14	.14	.13	.13	.13

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
13.0200	.13	.13	.12	.12	.12
13.1200	.12	.12	.12	.12	.12
13.2200	.12	.11	.11	.11	.11
13.3200	.11	.11	.11	.11	.10
13.4200	.10	.10	.10	.10	.10
13.5200	.10	.10	.10	.09	.09
13.6200	.09	.09	.09	.09	.09
13.7200	.09	.09	.09	.09	.09
13.8200	.09	.08	.08	.08	.08
13.9200	.08	.08	.08	.08	.08
14.0200	.08	.08	.08	.08	.07
14.1200	.07	.07	.07	.07	.07
14.2200	.07	.07	.07	.07	.07
14.3200	.07	.07	.07	.07	.07
14.4200	.07	.07	.07	.07	.07
14.5200	.07	.07	.07	.07	.07
14.6200	.07	.07	.07	.07	.07
14.7200	.07	.07	.07	.06	.06
14.8200	.06	.06	.06	.06	.06
14.9200	.06	.06	.06	.06	.06
15.0200	.06	.06	.06	.06	.06
15.1200	.06	.06	.06	.06	.06
15.2200	.06	.06	.06	.06	.06
15.3200	.06	.06	.06	.06	.06
15.4200	.06	.06	.06	.05	.05
15.5200	.05	.05	.05	.05	.05
15.6200	.05	.05	.05	.05	.05
15.7200	.05	.05	.05	.05	.05
15.8200	.05	.05	.05	.05	.05
15.9200	.05	.05	.05	.05	.05
16.0200	.05	.05	.05	.05	.05

16.1200	.05	.05	.05	.05	.05
16.2200	.05	.05	.05	.05	.05
16.3200	.05	.05	.05	.04	.04
16.4200	.04	.04	.04	.04	.04
16.5200	.04	.04	.04	.04	.04
16.6200	.04	.04	.04	.04	.04
16.7200	.04	.04	.04	.04	.04
16.8200	.04	.04	.04	.04	.04
16.9200	.04	.04	.04	.04	.04
17.0200	.04	.04	.04	.04	.04
17.1200	.04	.04	.04	.04	.04
17.2200	.04	.04	.04	.04	.04
17.3200	.04	.04	.04	.04	.04
17.4200	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
17.5200	.04	.04	.04	.04	.04
17.6200	.04	.04	.04	.04	.04
17.7200	.04	.04	.04	.04	.04
17.8200	.04	.04	.04	.04	.04
17.9200	.04	.04	.04	.04	.04
18.0200	.04	.04	.04	.04	.04
18.1200	.04	.04	.04	.04	.04
18.2200	.04	.04	.04	.04	.04
18.3200	.04	.04	.03	.03	.03
18.4200	.03	.03	.03	.03	.03
18.5200	.03	.03	.03	.03	.03
18.6200	.03	.03	.03	.03	.03
18.7200	.03	.03	.03	.03	.03
18.8200	.03	.03	.03	.03	.03
18.9200	.03	.03	.03	.03	.03
19.0200	.03	.03	.03	.03	.03
19.1200	.03	.03	.03	.03	.03
19.2200	.03	.03	.03	.03	.03
19.3200	.03	.03	.03	.03	.03
19.4200	.03	.03	.03	.03	.03
19.5200	.03	.03	.03	.03	.03
19.6200	.03	.03	.03	.03	.03
19.7200	.03	.03	.03	.03	.03

19.8200	.03	.03	.03	.03	.03
19.9200	.03	.03	.03	.03	.03
20.0200	.03	.03	.03	.03	.03
20.1200	.03	.03	.03	.03	.03
20.2200	.03	.03	.03	.03	.03
20.3200	.03	.03	.03	.03	.03
20.4200	.03	.03	.03	.03	.03
20.5200	.03	.03	.03	.03	.03
20.6200	.03	.03	.03	.03	.03
20.7200	.03	.03	.03	.03	.03
20.8200	.03	.03	.03	.03	.03
20.9200	.03	.03	.03	.03	.03
21.0200	.03	.03	.03	.03	.03
21.1200	.03	.03	.03	.03	.03
21.2200	.03	.03	.03	.03	.03
21.3200	.03	.03	.03	.02	.02
21.4200	.02	.02	.02	.02	.02
21.5200	.02	.02	.02	.02	.02
21.6200	.02	.02	.02	.02	.02
21.7200	.02	.02	.02	.02	.02
21.8200	.02	.02	.02	.02	.02
21.9200	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
22.0200	.02	.02	.02	.02	.02
22.1200	.02	.02	.02	.02	.02
22.2200	.02	.02	.02	.02	.02
22.3200	.02	.02	.02	.02	.02
22.4200	.02	.02	.02	.02	.02
22.5200	.02	.02	.02	.02	.02
22.6200	.02	.02	.02	.02	.02
22.7200	.02	.02	.02	.02	.02
22.8200	.02	.02	.02	.02	.02
22.9200	.02	.02	.02	.02	.02
23.0200	.02	.02	.02	.02	.02
23.1200	.02	.02	.02	.02	.02
23.2200	.02	.02	.02	.02	.02
23.3200	.02	.02	.02	.02	.02
23.4200	.02	.02	.02	.02	.02

23.5200	.02	.02	.02	.02	.02
23.6200	.02	.02	.02	.02	.02
23.7200	.02	.02	.02	.02	.02
23.8200	.02	.02	.02	.02	.02
23.9200	.02	.02	.02	.02	.02
24.0200	.02	.02	.01	.01	.00
24.1200	.00	.00	.00		

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: POND 10 IN

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ADDLINK 20	SUBAREA 20		SUBAREA 20	25

INFLOWS TO: POND 10 IN			Volume	Peak Time	Peak Flow
HYG file	HYG ID	HYG tag	ac-ft	hrs	cfs
	SUBAREA 20	25	.179	11.9200	2.91

TOTAL FLOW INTO: POND 10 IN			Volume	Peak Time	Peak Flow
HYG file	HYG ID	HYG tag	ac-ft	hrs	cfs
	POND 10 IN	25	.179	11.9200	2.91

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = POND 10 IN  
 HYG Tag = 25

-----  
 Peak Discharge = 2.91 cfs  
 Time to Peak = 11.9200 hrs  
 HYG Volume = .179 ac-ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
.8400	.00	.00	.00	.00	.00
.9400	.00	.00	.00	.00	.00
1.0400	.00	.00	.00	.00	.00
1.1400	.00	.00	.01	.01	.01
1.2400	.01	.01	.01	.01	.01
1.3400	.01	.01	.01	.01	.01
1.4400	.01	.01	.01	.01	.01
1.5400	.01	.01	.01	.01	.01
1.6400	.01	.01	.01	.01	.01
1.7400	.01	.01	.01	.01	.01
1.8400	.01	.01	.01	.01	.01
1.9400	.01	.01	.01	.01	.01
2.0400	.01	.01	.01	.01	.01
2.1400	.01	.01	.01	.01	.01
2.2400	.01	.01	.01	.02	.02
2.3400	.02	.02	.02	.02	.02
2.4400	.02	.02	.02	.02	.02
2.5400	.02	.02	.02	.02	.02
2.6400	.02	.02	.02	.02	.02
2.7400	.02	.02	.02	.02	.02
2.8400	.02	.02	.02	.02	.02
2.9400	.02	.02	.02	.02	.02
3.0400	.02	.02	.02	.02	.02
3.1400	.02	.02	.02	.02	.02
3.2400	.02	.02	.02	.02	.02
3.3400	.02	.02	.02	.02	.02
3.4400	.02	.02	.02	.02	.02
3.5400	.02	.02	.02	.02	.02
3.6400	.02	.02	.02	.02	.02
3.7400	.02	.02	.02	.02	.02
3.8400	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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8.1400		.05	.05	.05	.05	.05
8.2400		.05	.05	.05	.05	.05
8.3400		.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
8.4400	.05	.06	.06	.06	.06
8.5400	.06	.06	.06	.06	.06
8.6400	.06	.06	.06	.06	.06
8.7400	.06	.06	.06	.06	.06
8.8400	.06	.06	.07	.07	.07
8.9400	.07	.07	.07	.07	.07
9.0400	.07	.07	.07	.07	.07
9.1400	.07	.07	.07	.07	.07
9.2400	.07	.07	.07	.07	.07
9.3400	.07	.07	.07	.07	.07
9.4400	.07	.07	.07	.07	.07
9.5400	.07	.07	.07	.07	.07
9.6400	.07	.07	.07	.07	.07
9.7400	.08	.08	.08	.08	.08
9.8400	.08	.08	.08	.08	.08
9.9400	.08	.08	.08	.09	.09
10.0400	.09	.09	.09	.09	.09
10.1400	.09	.09	.09	.09	.10
10.2400	.10	.10	.10	.10	.10
10.3400	.10	.10	.10	.11	.11
10.4400	.11	.11	.11	.11	.11
10.5400	.11	.12	.12	.12	.12
10.6400	.12	.12	.13	.13	.13
10.7400	.13	.13	.13	.14	.14
10.8400	.14	.14	.14	.14	.15
10.9400	.15	.15	.15	.15	.16
11.0400	.16	.16	.17	.17	.17
11.1400	.17	.18	.19	.19	.19
11.2400	.20	.20	.21	.21	.21
11.3400	.22	.22	.23	.23	.23
11.4400	.24	.25	.25	.25	.27
11.5400	.32	.40	.45	.49	.54
11.6400	.65	.79	.91	.98	1.05
11.7400	1.20	1.38	1.52	1.61	1.74

11.8400	2.02	2.39	2.69	2.86	2.91
11.9400	2.79	2.57	2.39	2.27	2.12
12.0400	1.76	1.30	.92	.70	.57
12.1400	.50	.44	.41	.40	.38
12.2400	.37	.35	.34	.33	.33
12.3400	.31	.30	.29	.28	.27
12.4400	.26	.25	.24	.23	.22
12.5400	.22	.21	.20	.20	.19
12.6400	.19	.19	.18	.18	.18
12.7400	.18	.17	.17	.17	.17
12.8400	.16	.16	.16	.16	.16

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
12.9400	.15	.15	.15	.15	.14
13.0400	.14	.14	.14	.14	.13
13.1400	.13	.13	.13	.13	.13
13.2400	.13	.12	.12	.12	.12
13.3400	.12	.12	.12	.12	.12
13.4400	.11	.11	.11	.11	.11
13.5400	.11	.11	.11	.10	.10
13.6400	.10	.10	.10	.10	.10
13.7400	.10	.10	.10	.10	.09
13.8400	.09	.09	.09	.09	.09
13.9400	.09	.09	.09	.09	.09
14.0400	.09	.08	.08	.08	.08
14.1400	.08	.08	.08	.08	.08
14.2400	.08	.08	.08	.08	.08
14.3400	.08	.08	.08	.08	.08
14.4400	.08	.08	.08	.08	.08
14.5400	.08	.08	.08	.07	.07
14.6400	.07	.07	.07	.07	.07
14.7400	.07	.07	.07	.07	.07
14.8400	.07	.07	.07	.07	.07
14.9400	.07	.07	.07	.07	.07
15.0400	.07	.07	.07	.07	.07
15.1400	.07	.07	.07	.07	.07
15.2400	.06	.06	.06	.06	.06
15.3400	.06	.06	.06	.06	.06
15.4400	.06	.06	.06	.06	.06

15.5400	.06	.06	.06	.06	.06
15.6400	.06	.06	.06	.06	.06
15.7400	.06	.06	.06	.06	.06
15.8400	.06	.06	.05	.05	.05
15.9400	.05	.05	.05	.05	.05
16.0400	.05	.05	.05	.05	.05
16.1400	.05	.05	.05	.05	.05
16.2400	.05	.05	.05	.05	.05
16.3400	.05	.05	.05	.05	.05
16.4400	.05	.05	.05	.05	.05
16.5400	.05	.05	.05	.05	.05
16.6400	.05	.05	.05	.05	.05
16.7400	.05	.05	.05	.05	.05
16.8400	.05	.05	.05	.05	.05
16.9400	.05	.05	.05	.05	.05
17.0400	.05	.05	.05	.05	.05
17.1400	.05	.05	.05	.05	.05
17.2400	.05	.05	.05	.04	.04
17.3400	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
17.4400	.04	.04	.04	.04	.04
17.5400	.04	.04	.04	.04	.04
17.6400	.04	.04	.04	.04	.04
17.7400	.04	.04	.04	.04	.04
17.8400	.04	.04	.04	.04	.04
17.9400	.04	.04	.04	.04	.04
18.0400	.04	.04	.04	.04	.04
18.1400	.04	.04	.04	.04	.04
18.2400	.04	.04	.04	.04	.04
18.3400	.04	.04	.04	.04	.04
18.4400	.04	.04	.04	.04	.04
18.5400	.04	.04	.04	.04	.04
18.6400	.04	.04	.04	.04	.04
18.7400	.04	.04	.04	.04	.04
18.8400	.04	.04	.04	.04	.04
18.9400	.04	.04	.04	.04	.04
19.0400	.04	.03	.03	.03	.03
19.1400	.03	.03	.03	.03	.03

19.2400	.03	.03	.03	.03	.03
19.3400	.03	.03	.03	.03	.03
19.4400	.03	.03	.03	.03	.03
19.5400	.03	.03	.03	.03	.03
19.6400	.03	.03	.03	.03	.03
19.7400	.03	.03	.03	.03	.03
19.8400	.03	.03	.03	.03	.03
19.9400	.03	.03	.03	.03	.03
20.0400	.03	.03	.03	.03	.03
20.1400	.03	.03	.03	.03	.03
20.2400	.03	.03	.03	.03	.03
20.3400	.03	.03	.03	.03	.03
20.4400	.03	.03	.03	.03	.03
20.5400	.03	.03	.03	.03	.03
20.6400	.03	.03	.03	.03	.03
20.7400	.03	.03	.03	.03	.03
20.8400	.03	.03	.03	.03	.03
20.9400	.03	.03	.03	.03	.03
21.0400	.03	.03	.03	.03	.03
21.1400	.03	.03	.03	.03	.03
21.2400	.03	.03	.03	.03	.03
21.3400	.03	.03	.03	.03	.03
21.4400	.03	.03	.03	.03	.03
21.5400	.03	.03	.03	.03	.03
21.6400	.03	.03	.03	.03	.03
21.7400	.03	.03	.03	.03	.03
21.8400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time					
hrs					
-----					
21.9400	.03	.03	.03	.03	.03
22.0400	.03	.03	.03	.03	.03
22.1400	.03	.03	.03	.03	.03
22.2400	.03	.03	.03	.03	.03
22.3400	.03	.03	.03	.03	.03
22.4400	.03	.03	.03	.03	.03
22.5400	.03	.03	.03	.03	.03
22.6400	.03	.03	.03	.03	.03
22.7400	.03	.03	.03	.03	.03
22.8400	.03	.03	.03	.03	.03

22.9400	.03	.03	.03	.03	.03
23.0400	.03	.03	.03	.03	.03
23.1400	.03	.03	.03	.03	.03
23.2400	.03	.03	.03	.03	.03
23.3400	.03	.03	.03	.03	.03
23.4400	.03	.03	.03	.03	.03
23.5400	.03	.03	.03	.03	.03
23.6400	.03	.03	.03	.03	.03
23.7400	.03	.03	.03	.03	.03
23.8400	.03	.03	.03	.03	.03
23.9400	.02	.02	.02	.02	.02
24.0400	.02	.01	.01	.00	.00
24.1400	.00	.00			

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

SUMMARY FOR HYDROGRAPH ADDITION

at Node: POND 10 IN

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ADDLINK 20	SUBAREA 20		SUBAREA 20	50

INFLOWS TO: POND 10 IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
	SUBAREA 20	50	.205	11.9200	3.31

TOTAL FLOW INTO: POND 10 IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
	POND 10	IN 50	.205	11.9200	3.31

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary  
 Name.... POND 10 IN  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr Tag: 50

Page 14.25  
 Event: 50 yr

TOTAL NODE INFLOW...

HYG file =  
 HYG ID = POND 10 IN  
 HYG Tag = 50

-----  
 Peak Discharge = 3.31 cfs  
 Time to Peak = 11.9200 hrs  
 HYG Volume = .205 ac-ft  
 -----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
 Time on left represents time for first value in each row.

Time hrs					
.7200	.00	.00	.00	.00	.00
.8200	.00	.00	.00	.00	.00
.9200	.00	.00	.00	.00	.01
1.0200	.01	.01	.01	.01	.01
1.1200	.01	.01	.01	.01	.01
1.2200	.01	.01	.01	.01	.01
1.3200	.01	.01	.01	.01	.01
1.4200	.01	.01	.01	.01	.01
1.5200	.01	.01	.01	.01	.01
1.6200	.01	.01	.01	.01	.01
1.7200	.01	.01	.01	.01	.01
1.8200	.01	.01	.02	.02	.02
1.9200	.02	.02	.02	.02	.02
2.0200	.02	.02	.02	.02	.02
2.1200	.02	.02	.02	.02	.02
2.2200	.02	.02	.02	.02	.02
2.3200	.02	.02	.02	.02	.02
2.4200	.02	.02	.02	.02	.02
2.5200	.02	.02	.02	.02	.02
2.6200	.02	.02	.02	.02	.02
2.7200	.02	.02	.02	.02	.02
2.8200	.02	.02	.02	.02	.02
2.9200	.02	.02	.02	.02	.02
3.0200	.02	.02	.02	.02	.02
3.1200	.02	.02	.02	.02	.02
3.2200	.02	.02	.03	.03	.03
3.3200	.03	.03	.03	.03	.03
3.4200	.03	.03	.03	.03	.03
3.5200	.03	.03	.03	.03	.03
3.6200	.03	.03	.03	.03	.03

3.7200 | .03 .03 .03 .03 .03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
3.8200	.03	.03	.03	.03	.03
3.9200	.03	.03	.03	.03	.03
4.0200	.03	.03	.03	.03	.03
4.1200	.03	.03	.03	.03	.03
4.2200	.03	.03	.03	.03	.03
4.3200	.03	.03	.03	.03	.03
4.4200	.03	.03	.03	.03	.03
4.5200	.03	.03	.03	.03	.03
4.6200	.03	.03	.03	.03	.03
4.7200	.03	.03	.03	.03	.03
4.8200	.03	.03	.03	.03	.03
4.9200	.03	.03	.04	.04	.04
5.0200	.04	.04	.04	.04	.04
5.1200	.04	.04	.04	.04	.04
5.2200	.04	.04	.04	.04	.04
5.3200	.04	.04	.04	.04	.04
5.4200	.04	.04	.04	.04	.04
5.5200	.04	.04	.04	.04	.04
5.6200	.04	.04	.04	.04	.04
5.7200	.04	.04	.04	.04	.04
5.8200	.04	.04	.04	.04	.04
5.9200	.04	.04	.04	.04	.04
6.0200	.04	.04	.04	.04	.04
6.1200	.04	.04	.04	.04	.04
6.2200	.04	.04	.04	.04	.04
6.3200	.04	.04	.04	.04	.04
6.4200	.04	.04	.04	.04	.04
6.5200	.04	.04	.05	.05	.05
6.6200	.05	.05	.05	.05	.05
6.7200	.05	.05	.05	.05	.05
6.8200	.05	.05	.05	.05	.05
6.9200	.05	.05	.05	.05	.05
7.0200	.05	.05	.05	.05	.05
7.1200	.05	.05	.05	.05	.05
7.2200	.05	.05	.05	.05	.05
7.3200	.05	.05	.05	.05	.05

7.4200	.05	.05	.05	.05	.05
7.5200	.05	.05	.05	.05	.05
7.6200	.05	.05	.05	.05	.05
7.7200	.05	.05	.05	.05	.05
7.8200	.05	.05	.05	.05	.05
7.9200	.05	.05	.05	.05	.05
8.0200	.05	.05	.05	.05	.05
8.1200	.06	.06	.06	.06	.06
8.2200	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
8.3200	.06	.06	.06	.06	.06
8.4200	.06	.06	.06	.06	.06
8.5200	.07	.07	.07	.07	.07
8.6200	.07	.07	.07	.07	.07
8.7200	.07	.07	.07	.07	.07
8.8200	.07	.07	.07	.07	.08
8.9200	.08	.08	.08	.08	.08
9.0200	.08	.08	.08	.08	.08
9.1200	.08	.08	.08	.08	.08
9.2200	.08	.08	.08	.08	.08
9.3200	.08	.08	.08	.08	.08
9.4200	.08	.08	.08	.08	.08
9.5200	.08	.08	.08	.08	.08
9.6200	.08	.08	.08	.08	.09
9.7200	.09	.09	.09	.09	.09
9.8200	.09	.09	.09	.09	.09
9.9200	.09	.10	.10	.10	.10
10.0200	.10	.10	.10	.10	.10
10.1200	.10	.10	.11	.11	.11
10.2200	.11	.11	.11	.11	.11
10.3200	.12	.12	.12	.12	.12
10.4200	.12	.12	.12	.13	.13
10.5200	.13	.13	.13	.13	.14
10.6200	.14	.14	.14	.14	.14
10.7200	.15	.15	.15	.15	.16
10.8200	.16	.16	.16	.16	.17
10.9200	.17	.17	.17	.17	.18
11.0200	.18	.18	.19	.19	.19



11.1200	.19	.20	.21	.21	.22
11.2200	.22	.22	.23	.24	.24
11.3200	.24	.25	.26	.26	.26
11.4200	.27	.27	.28	.29	.29
11.5200	.31	.37	.45	.52	.56
11.6200	.62	.74	.91	1.04	1.12
11.7200	1.20	1.37	1.57	1.74	1.84
11.8200	1.98	2.30	2.72	3.06	3.26
11.9200	3.31	3.18	2.93	2.72	2.59
12.0200	2.41	2.01	1.48	1.05	.80
12.1200	.65	.56	.51	.47	.45
12.2200	.44	.42	.40	.39	.38
12.3200	.37	.36	.34	.33	.32
12.4200	.31	.30	.28	.27	.26
12.5200	.26	.25	.24	.23	.22
12.6200	.22	.22	.21	.21	.21
12.7200	.20	.20	.20	.19	.19

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
12.8200	.19	.19	.18	.18	.18
12.9200	.18	.17	.17	.17	.17
13.0200	.16	.16	.16	.16	.15
13.1200	.15	.15	.15	.15	.15
13.2200	.15	.14	.14	.14	.14
13.3200	.14	.14	.14	.13	.13
13.4200	.13	.13	.13	.13	.13
13.5200	.12	.12	.12	.12	.12
13.6200	.12	.12	.12	.11	.11
13.7200	.11	.11	.11	.11	.11
13.8200	.11	.11	.11	.10	.10
13.9200	.10	.10	.10	.10	.10
14.0200	.10	.10	.10	.10	.09
14.1200	.09	.09	.09	.09	.09
14.2200	.09	.09	.09	.09	.09
14.3200	.09	.09	.09	.09	.09
14.4200	.09	.09	.09	.09	.09
14.5200	.09	.09	.09	.09	.09
14.6200	.09	.08	.08	.08	.08
14.7200	.08	.08	.08	.08	.08

14.8200	.08	.08	.08	.08	.08
14.9200	.08	.08	.08	.08	.08
15.0200	.08	.08	.08	.08	.08
15.1200	.08	.08	.08	.07	.07
15.2200	.07	.07	.07	.07	.07
15.3200	.07	.07	.07	.07	.07
15.4200	.07	.07	.07	.07	.07
15.5200	.07	.07	.07	.07	.07
15.6200	.07	.07	.07	.07	.07
15.7200	.07	.07	.06	.06	.06
15.8200	.06	.06	.06	.06	.06
15.9200	.06	.06	.06	.06	.06
16.0200	.06	.06	.06	.06	.06
16.1200	.06	.06	.06	.06	.06
16.2200	.06	.06	.06	.06	.06
16.3200	.06	.06	.06	.06	.06
16.4200	.06	.06	.06	.06	.06
16.5200	.06	.06	.06	.06	.06
16.6200	.06	.06	.06	.06	.06
16.7200	.05	.05	.05	.05	.05
16.8200	.05	.05	.05	.05	.05
16.9200	.05	.05	.05	.05	.05
17.0200	.05	.05	.05	.05	.05
17.1200	.05	.05	.05	.05	.05
17.2200	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

---

Time hrs					
17.3200	.05	.05	.05	.05	.05
17.4200	.05	.05	.05	.05	.05
17.5200	.05	.05	.05	.05	.05
17.6200	.05	.05	.05	.05	.05
17.7200	.05	.05	.05	.05	.05
17.8200	.05	.05	.05	.05	.05
17.9200	.05	.05	.05	.05	.05
18.0200	.05	.05	.05	.05	.05
18.1200	.05	.05	.05	.05	.05
18.2200	.05	.05	.04	.04	.04
18.3200	.04	.04	.04	.04	.04
18.4200	.04	.04	.04	.04	.04

18.5200	.04	.04	.04	.04	.04
18.6200	.04	.04	.04	.04	.04
18.7200	.04	.04	.04	.04	.04
18.8200	.04	.04	.04	.04	.04
18.9200	.04	.04	.04	.04	.04
19.0200	.04	.04	.04	.04	.04
19.1200	.04	.04	.04	.04	.04
19.2200	.04	.04	.04	.04	.04
19.3200	.04	.04	.04	.04	.04
19.4200	.04	.04	.04	.04	.04
19.5200	.04	.04	.04	.04	.04
19.6200	.04	.04	.04	.04	.04
19.7200	.04	.04	.04	.04	.04
19.8200	.03	.03	.03	.03	.03
19.9200	.03	.03	.03	.03	.03
20.0200	.03	.03	.03	.03	.03
20.1200	.03	.03	.03	.03	.03
20.2200	.03	.03	.03	.03	.03
20.3200	.03	.03	.03	.03	.03
20.4200	.03	.03	.03	.03	.03
20.5200	.03	.03	.03	.03	.03
20.6200	.03	.03	.03	.03	.03
20.7200	.03	.03	.03	.03	.03
20.8200	.03	.03	.03	.03	.03
20.9200	.03	.03	.03	.03	.03
21.0200	.03	.03	.03	.03	.03
21.1200	.03	.03	.03	.03	.03
21.2200	.03	.03	.03	.03	.03
21.3200	.03	.03	.03	.03	.03
21.4200	.03	.03	.03	.03	.03
21.5200	.03	.03	.03	.03	.03
21.6200	.03	.03	.03	.03	.03
21.7200	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.30

Name.... POND 10 IN

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
21.8200	.03	.03	.03	.03	.03
21.9200	.03	.03	.03	.03	.03
22.0200	.03	.03	.03	.03	.03
22.1200	.03	.03	.03	.03	.03

22.2200	.03	.03	.03	.03	.03
22.3200	.03	.03	.03	.03	.03
22.4200	.03	.03	.03	.03	.03
22.5200	.03	.03	.03	.03	.03
22.6200	.03	.03	.03	.03	.03
22.7200	.03	.03	.03	.03	.03
22.8200	.03	.03	.03	.03	.03
22.9200	.03	.03	.03	.03	.03
23.0200	.03	.03	.03	.03	.03
23.1200	.03	.03	.03	.03	.03
23.2200	.03	.03	.03	.03	.03
23.3200	.03	.03	.03	.03	.03
23.4200	.03	.03	.03	.03	.03
23.5200	.03	.03	.03	.03	.03
23.6200	.03	.03	.03	.03	.03
23.7200	.03	.03	.03	.03	.03
23.8200	.03	.03	.03	.03	.03
23.9200	.03	.03	.03	.03	.03
24.0200	.03	.02	.01	.01	.00
24.1200	.00	.00	.00		

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.31

Name.... POND 10 IN

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

SUMMARY FOR HYDROGRAPH ADDITION  
at Node: POND 10 IN

HYG Directory: R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Upstream Link ID	Upstream Node ID	HYG file	HYG ID	HYG tag
ADDLINK 20	SUBAREA 20		SUBAREA 20	100

INFLOWS TO: POND 10 IN

HYG file	HYG ID	HYG tag	Volume ac-ft	Peak Time hrs	Peak Flow cfs
	SUBAREA 20	100	.232	11.9200	3.75

TOTAL FLOW INTO: POND 10 IN

Volume	Peak Time	Peak Flow
--------	-----------	-----------

HYG file	HYG ID	HYG tag	ac-ft	hrs	cfs
POND 10	IN	100	.232	11.9200	3.75

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.32

Name.... POND 10 IN

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

TOTAL NODE INFLOW...

HYG file =

HYG ID = POND 10 IN

HYG Tag = 100

Peak Discharge = 3.75 cfs

Time to Peak = 11.9200 hrs

HYG Volume = .232 ac-ft

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
.6400	.00	.00	.00	.00	.00
.7400	.00	.00	.00	.00	.00
.8400	.00	.01	.01	.01	.01
.9400	.01	.01	.01	.01	.01
1.0400	.01	.01	.01	.01	.01
1.1400	.01	.01	.01	.01	.01
1.2400	.01	.01	.01	.01	.01
1.3400	.01	.01	.01	.01	.01
1.4400	.01	.01	.01	.01	.02
1.5400	.02	.02	.02	.02	.02
1.6400	.02	.02	.02	.02	.02
1.7400	.02	.02	.02	.02	.02
1.8400	.02	.02	.02	.02	.02
1.9400	.02	.02	.02	.02	.02
2.0400	.02	.02	.02	.02	.02
2.1400	.02	.02	.02	.02	.02
2.2400	.02	.02	.02	.02	.02
2.3400	.02	.02	.02	.02	.02
2.4400	.02	.02	.02	.02	.02
2.5400	.02	.03	.03	.03	.03
2.6400	.03	.03	.03	.03	.03
2.7400	.03	.03	.03	.03	.03
2.8400	.03	.03	.03	.03	.03

2.9400	.03	.03	.03	.03	.03
3.0400	.03	.03	.03	.03	.03
3.1400	.03	.03	.03	.03	.03
3.2400	.03	.03	.03	.03	.03
3.3400	.03	.03	.03	.03	.03
3.4400	.03	.03	.03	.03	.03
3.5400	.03	.03	.03	.03	.03
3.6400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.33

Name.... POND 10 IN

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
3.7400	.03	.03	.03	.03	.03
3.8400	.03	.03	.03	.03	.03
3.9400	.03	.03	.03	.03	.03
4.0400	.03	.03	.03	.03	.03
4.1400	.03	.03	.04	.04	.04
4.2400	.04	.04	.04	.04	.04
4.3400	.04	.04	.04	.04	.04
4.4400	.04	.04	.04	.04	.04
4.5400	.04	.04	.04	.04	.04
4.6400	.04	.04	.04	.04	.04
4.7400	.04	.04	.04	.04	.04
4.8400	.04	.04	.04	.04	.04
4.9400	.04	.04	.04	.04	.04
5.0400	.04	.04	.04	.04	.04
5.1400	.04	.04	.04	.04	.04
5.2400	.04	.04	.04	.04	.04
5.3400	.04	.04	.04	.04	.04
5.4400	.04	.04	.04	.04	.04
5.5400	.04	.04	.05	.05	.05
5.6400	.05	.05	.05	.05	.05
5.7400	.05	.05	.05	.05	.05
5.8400	.05	.05	.05	.05	.05
5.9400	.05	.05	.05	.05	.05
6.0400	.05	.05	.05	.05	.05
6.1400	.05	.05	.05	.05	.05
6.2400	.05	.05	.05	.05	.05
6.3400	.05	.05	.05	.05	.05
6.4400	.05	.05	.05	.05	.05
6.5400	.05	.05	.05	.05	.05

6.6400	.05	.05	.05	.05	.05
6.7400	.05	.05	.05	.05	.05
6.8400	.05	.05	.05	.05	.05
6.9400	.05	.05	.05	.05	.05
7.0400	.05	.05	.06	.06	.06
7.1400	.06	.06	.06	.06	.06
7.2400	.06	.06	.06	.06	.06
7.3400	.06	.06	.06	.06	.06
7.4400	.06	.06	.06	.06	.06
7.5400	.06	.06	.06	.06	.06
7.6400	.06	.06	.06	.06	.06
7.7400	.06	.06	.06	.06	.06
7.8400	.06	.06	.06	.06	.06
7.9400	.06	.06	.06	.06	.06
8.0400	.06	.06	.06	.06	.06
8.1400	.06	.06	.06	.07	.07

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
8.2400	.07	.07	.07	.07	.07
8.3400	.07	.07	.07	.07	.07
8.4400	.07	.07	.07	.07	.07
8.5400	.08	.08	.08	.08	.08
8.6400	.08	.08	.08	.08	.08
8.7400	.08	.08	.08	.08	.08
8.8400	.08	.08	.09	.09	.09
8.9400	.09	.09	.09	.09	.09
9.0400	.09	.09	.09	.09	.09
9.1400	.09	.09	.09	.09	.09
9.2400	.09	.09	.09	.09	.09
9.3400	.09	.09	.09	.09	.09
9.4400	.09	.09	.09	.09	.09
9.5400	.09	.09	.09	.09	.09
9.6400	.09	.10	.10	.10	.10
9.7400	.10	.10	.10	.10	.10
9.8400	.10	.10	.11	.11	.11
9.9400	.11	.11	.11	.11	.11
10.0400	.11	.11	.12	.12	.12
10.1400	.12	.12	.12	.12	.12
10.2400	.13	.13	.13	.13	.13

10.3400	.13	.13	.14	.14	.14
10.4400	.14	.14	.14	.14	.15
10.5400	.15	.15	.15	.15	.15
10.6400	.16	.16	.16	.16	.17
10.7400	.17	.17	.17	.18	.18
10.8400	.18	.18	.19	.19	.19
10.9400	.19	.19	.20	.20	.20
11.0400	.21	.21	.22	.22	.22
11.1400	.23	.23	.24	.24	.25
11.2400	.25	.26	.27	.27	.28
11.3400	.28	.29	.30	.30	.30
11.4400	.31	.32	.32	.33	.35
11.5400	.42	.51	.59	.64	.70
11.6400	.84	1.03	1.18	1.27	1.36
11.7400	1.55	1.78	1.97	2.08	2.24
11.8400	2.60	3.08	3.47	3.69	3.75
11.9400	3.59	3.32	3.08	2.93	2.73
12.0400	2.27	1.67	1.19	.90	.74
12.1400	.64	.57	.53	.51	.49
12.2400	.47	.45	.44	.43	.42
12.3400	.41	.39	.37	.36	.35
12.4400	.34	.32	.31	.30	.29
12.5400	.28	.27	.26	.25	.25
12.6400	.24	.24	.23	.23	.23

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

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Name.... POND 10 IN

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
12.7400	.23	.22	.22	.22	.22
12.8400	.21	.21	.20	.20	.20
12.9400	.20	.19	.19	.19	.19
13.0400	.18	.18	.18	.17	.17
13.1400	.17	.17	.17	.17	.17
13.2400	.16	.16	.16	.16	.16
13.3400	.16	.15	.15	.15	.15
13.4400	.15	.14	.14	.14	.14
13.5400	.14	.14	.14	.13	.13
13.6400	.13	.13	.13	.13	.13
13.7400	.13	.13	.12	.12	.12
13.8400	.12	.12	.12	.12	.12
13.9400	.12	.11	.11	.11	.11



14.0400	.11	.11	.11	.11	.11
14.1400	.11	.11	.10	.10	.10
14.2400	.10	.10	.10	.10	.10
14.3400	.10	.10	.10	.10	.10
14.4400	.10	.10	.10	.10	.10
14.5400	.10	.10	.10	.10	.10
14.6400	.10	.10	.09	.09	.09
14.7400	.09	.09	.09	.09	.09
14.8400	.09	.09	.09	.09	.09
14.9400	.09	.09	.09	.09	.09
15.0400	.09	.09	.09	.09	.09
15.1400	.09	.09	.08	.08	.08
15.2400	.08	.08	.08	.08	.08
15.3400	.08	.08	.08	.08	.08
15.4400	.08	.08	.08	.08	.08
15.5400	.08	.08	.08	.08	.08
15.6400	.08	.07	.07	.07	.07
15.7400	.07	.07	.07	.07	.07
15.8400	.07	.07	.07	.07	.07
15.9400	.07	.07	.07	.07	.07
16.0400	.07	.07	.07	.07	.07
16.1400	.07	.07	.07	.07	.07
16.2400	.07	.07	.07	.07	.07
16.3400	.06	.06	.06	.06	.06
16.4400	.06	.06	.06	.06	.06
16.5400	.06	.06	.06	.06	.06
16.6400	.06	.06	.06	.06	.06
16.7400	.06	.06	.06	.06	.06
16.8400	.06	.06	.06	.06	.06
16.9400	.06	.06	.06	.06	.06
17.0400	.06	.06	.06	.06	.06
17.1400	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.36

Name.... POND 10 IN

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
17.2400	.06	.06	.06	.06	.06
17.3400	.06	.06	.06	.06	.06
17.4400	.06	.06	.06	.06	.06
17.5400	.06	.06	.06	.06	.06
17.6400	.06	.06	.06	.06	.05

17.7400	.05	.05	.05	.05	.05
17.8400	.05	.05	.05	.05	.05
17.9400	.05	.05	.05	.05	.05
18.0400	.05	.05	.05	.05	.05
18.1400	.05	.05	.05	.05	.05
18.2400	.05	.05	.05	.05	.05
18.3400	.05	.05	.05	.05	.05
18.4400	.05	.05	.05	.05	.05
18.5400	.05	.05	.05	.05	.05
18.6400	.05	.05	.05	.05	.05
18.7400	.05	.05	.05	.05	.05
18.8400	.05	.05	.05	.05	.05
18.9400	.05	.05	.05	.05	.05
19.0400	.05	.05	.04	.04	.04
19.1400	.04	.04	.04	.04	.04
19.2400	.04	.04	.04	.04	.04
19.3400	.04	.04	.04	.04	.04
19.4400	.04	.04	.04	.04	.04
19.5400	.04	.04	.04	.04	.04
19.6400	.04	.04	.04	.04	.04
19.7400	.04	.04	.04	.04	.04
19.8400	.04	.04	.04	.04	.04
19.9400	.04	.04	.04	.04	.04
20.0400	.04	.04	.04	.04	.04
20.1400	.04	.04	.04	.04	.04
20.2400	.04	.04	.04	.04	.04
20.3400	.04	.04	.04	.04	.04
20.4400	.04	.04	.04	.04	.04
20.5400	.04	.04	.04	.04	.04
20.6400	.04	.04	.04	.04	.04
20.7400	.04	.04	.04	.04	.04
20.8400	.04	.04	.04	.04	.04
20.9400	.04	.04	.04	.04	.04
21.0400	.04	.04	.04	.04	.04
21.1400	.04	.04	.04	.04	.04
21.2400	.04	.04	.04	.04	.04
21.3400	.04	.04	.04	.04	.04
21.4400	.04	.04	.04	.04	.04
21.5400	.04	.04	.04	.04	.04
21.6400	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Node: Pond Inflow Summary

Page 14.37

Name.... POND 10 IN

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
21.7400	.04	.04	.04	.04	.04
21.8400	.04	.04	.04	.04	.04
21.9400	.04	.04	.03	.03	.03
22.0400	.03	.03	.03	.03	.03
22.1400	.03	.03	.03	.03	.03
22.2400	.03	.03	.03	.03	.03
22.3400	.03	.03	.03	.03	.03
22.4400	.03	.03	.03	.03	.03
22.5400	.03	.03	.03	.03	.03
22.6400	.03	.03	.03	.03	.03
22.7400	.03	.03	.03	.03	.03
22.8400	.03	.03	.03	.03	.03
22.9400	.03	.03	.03	.03	.03
23.0400	.03	.03	.03	.03	.03
23.1400	.03	.03	.03	.03	.03
23.2400	.03	.03	.03	.03	.03
23.3400	.03	.03	.03	.03	.03
23.4400	.03	.03	.03	.03	.03
23.5400	.03	.03	.03	.03	.03
23.6400	.03	.03	.03	.03	.03
23.7400	.03	.03	.03	.03	.03
23.8400	.03	.03	.03	.03	.03
23.9400	.03	.03	.03	.03	.03
24.0400	.02	.02	.01	.00	.00
24.1400	.00	.00			

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routing Summary

Page 14.38

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

LEVEL POOL ROUTING SUMMARY

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Inflow HYG file = NONE STORED - POND 10 IN 2

Outflow HYG file = NONE STORED - POND 10 OUT 2

Pond Node Data = POND 10

Pond Volume Data = POND 10

Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

```

-----
Starting WS Elev   = 592.26 ft
Starting Volume    = .000 ac-ft
Starting Outflow   = .00 cfs
Starting Infiltr. = .00 cfs
Starting Total Qout = .00 cfs
Time Increment     = .0200 hrs

```

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

```

=====
Peak Inflow       = 1.59 cfs   at 11.9200 hrs
Peak Outflow      = 1.17 cfs   at 12.0200 hrs

```

```

-----
Peak Elevation    = 594.82 ft
Peak Storage      = .011 ac-ft
=====

```

MASS BALANCE (ac-ft)

```

-----
+ Initial Vol     = .000
+ HYG Vol IN      = .096
- Infiltration    = .000
- HYG Vol OUT     = .094
- Retained Vol    = .001
-----
Unrouted Vol     = .000 ac-ft (.000% of Inflow Volume)

```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.39

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

POND ROUTED TOTAL OUTFLOW HYG...

```

HYG file =
HYG ID   = POND 10   OUT
HYG Tag  = 2

```

```

-----
Peak Discharge = 1.17 cfs
Time to Peak   = 12.0200 hrs
HYG Volume     = .094 ac-ft
-----

```

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
1.5000	.00	.00	.00	.00	.00
1.6000	.00	.00	.00	.00	.00
1.7000	.00	.00	.00	.00	.00
1.8000	.00	.00	.00	.00	.00
1.9000	.00	.00	.00	.00	.00
2.0000	.00	.00	.00	.00	.00
2.1000	.00	.00	.00	.00	.00
2.2000	.00	.00	.00	.00	.00
2.3000	.00	.00	.00	.00	.00
2.4000	.00	.00	.00	.00	.00
2.5000	.00	.00	.00	.00	.00
2.6000	.00	.00	.00	.00	.00
2.7000	.00	.00	.00	.00	.00
2.8000	.00	.00	.00	.00	.00
2.9000	.00	.00	.00	.00	.00
3.0000	.00	.00	.00	.00	.00
3.1000	.00	.00	.00	.00	.00
3.2000	.00	.00	.00	.00	.00
3.3000	.00	.00	.00	.00	.00
3.4000	.00	.00	.00	.00	.00
3.5000	.00	.00	.00	.00	.00
3.6000	.00	.00	.00	.00	.00
3.7000	.00	.00	.00	.00	.00
3.8000	.00	.00	.00	.00	.00
3.9000	.00	.01	.01	.01	.01
4.0000	.01	.01	.01	.01	.01
4.1000	.01	.01	.01	.01	.01
4.2000	.01	.01	.01	.01	.01
4.3000	.01	.01	.01	.01	.01
4.4000	.01	.01	.01	.01	.01
4.5000	.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.40

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
4.6000	.01	.01	.01	.01	.01
4.7000	.01	.01	.01	.01	.01

4.8000	.01	.01	.01	.01	.01
4.9000	.01	.01	.01	.01	.01
5.0000	.01	.01	.01	.01	.01
5.1000	.01	.01	.01	.01	.01
5.2000	.01	.01	.01	.01	.01
5.3000	.01	.01	.01	.01	.01
5.4000	.01	.01	.01	.01	.01
5.5000	.01	.01	.01	.02	.02
5.6000	.02	.02	.02	.02	.02
5.7000	.02	.02	.02	.02	.02
5.8000	.02	.02	.02	.02	.02
5.9000	.02	.02	.02	.02	.02
6.0000	.02	.02	.02	.02	.02
6.1000	.02	.02	.02	.02	.02
6.2000	.02	.02	.02	.02	.02
6.3000	.02	.02	.02	.02	.02
6.4000	.02	.02	.02	.02	.02
6.5000	.02	.02	.02	.02	.02
6.6000	.02	.02	.02	.02	.02
6.7000	.02	.02	.02	.02	.02
6.8000	.02	.02	.02	.02	.02
6.9000	.02	.02	.02	.02	.02
7.0000	.02	.02	.02	.02	.02
7.1000	.02	.02	.02	.02	.02
7.2000	.02	.02	.02	.02	.02
7.3000	.02	.02	.02	.02	.02
7.4000	.02	.02	.02	.02	.02
7.5000	.02	.02	.02	.02	.02
7.6000	.02	.02	.02	.02	.02
7.7000	.02	.02	.02	.02	.02
7.8000	.02	.02	.02	.02	.02
7.9000	.02	.02	.02	.02	.02
8.0000	.02	.02	.02	.02	.02
8.1000	.02	.02	.02	.02	.02
8.2000	.02	.02	.02	.03	.03
8.3000	.03	.03	.03	.03	.03
8.4000	.03	.03	.03	.03	.03
8.5000	.03	.03	.03	.03	.03
8.6000	.03	.03	.03	.03	.03
8.7000	.03	.03	.03	.03	.03
8.8000	.03	.03	.03	.03	.03
8.9000	.03	.03	.03	.03	.03
9.0000	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.41

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
9.1000	.04	.04	.04	.04	.04
9.2000	.04	.04	.04	.04	.04
9.3000	.04	.04	.04	.04	.04
9.4000	.04	.04	.04	.04	.04
9.5000	.04	.04	.04	.04	.04
9.6000	.04	.04	.04	.04	.04
9.7000	.04	.04	.04	.04	.04
9.8000	.04	.04	.04	.04	.04
9.9000	.04	.04	.04	.04	.04
10.0000	.04	.04	.04	.04	.05
10.1000	.05	.05	.05	.05	.05
10.2000	.05	.05	.05	.05	.05
10.3000	.05	.05	.05	.05	.05
10.4000	.05	.05	.06	.06	.06
10.5000	.06	.06	.06	.06	.06
10.6000	.06	.06	.06	.06	.06
10.7000	.06	.07	.07	.07	.07
10.8000	.07	.07	.07	.07	.07
10.9000	.07	.08	.08	.08	.08
11.0000	.08	.08	.08	.08	.08
11.1000	.09	.09	.09	.09	.09
11.2000	.10	.10	.10	.10	.10
11.3000	.11	.11	.11	.11	.12
11.4000	.12	.12	.12	.12	.13
11.5000	.13	.13	.14	.16	.18
11.6000	.20	.23	.25	.30	.35
11.7000	.40	.44	.47	.52	.58
11.8000	.63	.68	.74	.81	.88
11.9000	.96	1.03	1.09	1.13	1.15
12.0000	1.16	1.17	1.16	1.13	1.07
12.1000	1.00	.93	.85	.76	.68
12.2000	.60	.52	.45	.39	.33
12.3000	.28	.25	.23	.21	.20
12.4000	.18	.17	.17	.16	.15
12.5000	.14	.14	.13	.13	.12
12.6000	.12	.12	.11	.11	.11
12.7000	.10	.10	.10	.10	.10
12.8000	.10	.10	.09	.09	.09
12.9000	.09	.09	.09	.09	.08
13.0000	.08	.08	.08	.08	.08
13.1000	.08	.08	.08	.07	.07
13.2000	.07	.07	.07	.07	.07
13.3000	.07	.07	.07	.07	.07
13.4000	.07	.07	.06	.06	.06

13.5000 | .06 .06 .06 .06 .06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.42

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
13.6000	.06	.06	.06	.06	.06
13.7000	.06	.06	.06	.06	.05
13.8000	.05	.05	.05	.05	.05
13.9000	.05	.05	.05	.05	.05
14.0000	.05	.05	.05	.05	.05
14.1000	.05	.05	.05	.05	.05
14.2000	.05	.05	.05	.04	.04
14.3000	.04	.04	.04	.04	.04
14.4000	.04	.04	.04	.04	.04
14.5000	.04	.04	.04	.04	.04
14.6000	.04	.04	.04	.04	.04
14.7000	.04	.04	.04	.04	.04
14.8000	.04	.04	.04	.04	.04
14.9000	.04	.04	.04	.04	.04
15.0000	.04	.04	.04	.04	.04
15.1000	.04	.04	.04	.04	.04
15.2000	.04	.04	.04	.04	.04
15.3000	.04	.04	.04	.04	.04
15.4000	.03	.03	.03	.03	.03
15.5000	.03	.03	.03	.03	.03
15.6000	.03	.03	.03	.03	.03
15.7000	.03	.03	.03	.03	.03
15.8000	.03	.03	.03	.03	.03
15.9000	.03	.03	.03	.03	.03
16.0000	.03	.03	.03	.03	.03
16.1000	.03	.03	.03	.03	.03
16.2000	.03	.03	.03	.03	.03
16.3000	.03	.03	.03	.03	.03
16.4000	.03	.03	.03	.03	.03
16.5000	.03	.03	.03	.03	.03
16.6000	.03	.03	.03	.03	.03
16.7000	.03	.03	.03	.03	.03
16.8000	.03	.03	.03	.03	.03
16.9000	.03	.03	.03	.03	.03
17.0000	.03	.03	.03	.03	.03
17.1000	.03	.03	.03	.03	.03



17.2000	.03	.03	.03	.03	.03
17.3000	.02	.02	.02	.02	.02
17.4000	.02	.02	.02	.02	.02
17.5000	.02	.02	.02	.02	.02
17.6000	.02	.02	.02	.02	.02
17.7000	.02	.02	.02	.02	.02
17.8000	.02	.02	.02	.02	.02
17.9000	.02	.02	.02	.02	.02
18.0000	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.43

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time hrs | Time on left represents time for first value in each row.

18.1000	.02	.02	.02	.02	.02
18.2000	.02	.02	.02	.02	.02
18.3000	.02	.02	.02	.02	.02
18.4000	.02	.02	.02	.02	.02
18.5000	.02	.02	.02	.02	.02
18.6000	.02	.02	.02	.02	.02
18.7000	.02	.02	.02	.02	.02
18.8000	.02	.02	.02	.02	.02
18.9000	.02	.02	.02	.02	.02
19.0000	.02	.02	.02	.02	.02
19.1000	.02	.02	.02	.02	.02
19.2000	.02	.02	.02	.02	.02
19.3000	.02	.02	.02	.02	.02
19.4000	.02	.02	.02	.02	.02
19.5000	.02	.02	.02	.02	.02
19.6000	.02	.02	.02	.02	.02
19.7000	.02	.02	.02	.02	.02
19.8000	.02	.02	.02	.02	.02
19.9000	.02	.02	.02	.02	.02
20.0000	.02	.02	.02	.02	.02
20.1000	.02	.02	.02	.02	.02
20.2000	.02	.02	.02	.02	.02
20.3000	.02	.02	.02	.02	.02
20.4000	.02	.02	.02	.02	.02
20.5000	.02	.02	.02	.02	.02
20.6000	.02	.02	.02	.02	.02
20.7000	.02	.02	.02	.02	.02
20.8000	.02	.02	.02	.02	.02

20.9000	.02	.02	.02	.02	.02
21.0000	.02	.02	.02	.02	.02
21.1000	.02	.02	.02	.02	.02
21.2000	.02	.02	.02	.02	.02
21.3000	.02	.02	.02	.02	.02
21.4000	.02	.02	.02	.02	.02
21.5000	.02	.02	.02	.02	.02
21.6000	.02	.02	.02	.02	.02
21.7000	.02	.02	.02	.02	.02
21.8000	.02	.02	.02	.02	.02
21.9000	.02	.02	.02	.02	.02
22.0000	.02	.01	.01	.01	.01
22.1000	.01	.01	.01	.01	.01
22.2000	.01	.01	.01	.01	.01
22.3000	.01	.01	.01	.01	.01
22.4000	.01	.01	.01	.01	.01
22.5000	.01	.01	.01	.01	.01

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.44

Name.... POND 10 OUT Tag: 2

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
22.6000	.01	.01	.01	.01	.01
22.7000	.01	.01	.01	.01	.01
22.8000	.01	.01	.01	.01	.01
22.9000	.01	.01	.01	.01	.01
23.0000	.01	.01	.01	.01	.01
23.1000	.01	.01	.01	.01	.01
23.2000	.01	.01	.01	.01	.01
23.3000	.01	.01	.01	.01	.01
23.4000	.01	.01	.01	.01	.01
23.5000	.01	.01	.01	.01	.01
23.6000	.01	.01	.01	.01	.01
23.7000	.01	.01	.01	.01	.01
23.8000	.01	.01	.01	.01	.01
23.9000	.01	.01	.01	.01	.01
24.0000	.01	.01	.01	.01	.01
24.1000	.01	.01	.00	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routing Summary Page 14.45  
 Name.... POND 10        OUT    Tag:     15 Event: 15 yr  
 File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
 Storm... TypeII 24hr    Tag:     15

LEVEL POOL ROUTING SUMMARY

HYG Dir                = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Inflow HYG file = NONE STORED - POND 10        IN 15  
 Outflow HYG file = NONE STORED - POND 10        OUT 15

Pond Node    Data = POND 10  
 Pond Volume Data = POND 10  
 Pond Outlet Data = Outlet 1

No Infiltration

INITIAL CONDITIONS

-----  
 Starting WS Elev    =    592.26 ft  
 Starting Volume     =     .000 ac-ft  
 Starting Outflow    =     .00 cfs  
 Starting Infiltr.   =     .00 cfs  
 Starting Total Qout=     .00 cfs  
 Time Increment     =     .0200 hrs

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

=====  
 Peak Inflow         =     2.61 cfs    at    11.9200 hrs  
 Peak Outflow        =     2.67 cfs    at    11.9200 hrs  
 -----  
 Peak Elevation      =     595.40 ft  
 Peak Storage        =     .014 ac-ft  
 =====

MASS BALANCE (ac-ft)

-----  
 + Initial Vol    =     .000  
 + HYG Vol IN    =     .160  
 - Infiltration   =     .000  
 - HYG Vol OUT   =     .159  
 - Retained Vol   =     .001  
 -----  
 Unrouted Vol =     .000 ac-ft    (.000% of Inflow Volume)

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.46

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

POND ROUTED TOTAL OUTFLOW HYG...

HYG file =

HYG ID = POND 10 OUT

HYG Tag = 15

Peak Discharge = 2.67 cfs

Time to Peak = 11.9200 hrs

HYG Volume = .159 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time hrs | Time on left represents time for first value in each row.

Time hrs					
.9200	.00	.00	.00	.00	.00
1.0200	.00	.00	.00	.00	.00
1.1200	.00	.00	.00	.00	.00
1.2200	.00	.00	.00	.00	.00
1.3200	.00	.00	.00	.00	.00
1.4200	.00	.00	.00	.00	.00
1.5200	.00	.00	.00	.00	.00
1.6200	.00	.00	.00	.00	.00
1.7200	.00	.00	.00	.00	.00
1.8200	.00	.00	.00	.00	.00
1.9200	.00	.00	.00	.00	.00
2.0200	.00	.00	.00	.00	.00
2.1200	.00	.00	.00	.00	.00
2.2200	.00	.00	.00	.00	.00
2.3200	.00	.00	.00	.00	.00
2.4200	.00	.00	.00	.00	.00
2.5200	.00	.00	.00	.01	.01
2.6200	.01	.01	.01	.01	.01
2.7200	.01	.01	.01	.01	.01
2.8200	.01	.02	.02	.02	.02
2.9200	.02	.02	.02	.02	.02
3.0200	.02	.02	.02	.02	.02
3.1200	.02	.02	.02	.02	.02
3.2200	.02	.02	.02	.02	.02
3.3200	.02	.02	.02	.02	.02
3.4200	.02	.02	.02	.02	.02
3.5200	.02	.02	.02	.02	.02
3.6200	.02	.02	.02	.02	.02

3.7200	.02	.02	.02	.02	.02
3.8200	.02	.02	.02	.02	.02
3.9200	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.47

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
4.0200	.02	.02	.02	.02	.02
4.1200	.02	.02	.02	.02	.02
4.2200	.02	.02	.02	.02	.02
4.3200	.02	.02	.02	.02	.02
4.4200	.02	.02	.02	.02	.02
4.5200	.02	.02	.02	.02	.02
4.6200	.02	.02	.02	.02	.02
4.7200	.02	.02	.02	.02	.02
4.8200	.02	.03	.03	.03	.03
4.9200	.03	.03	.03	.03	.03
5.0200	.03	.03	.03	.03	.03
5.1200	.03	.03	.03	.03	.03
5.2200	.03	.03	.03	.03	.03
5.3200	.03	.03	.03	.03	.03
5.4200	.03	.03	.03	.03	.03
5.5200	.03	.03	.03	.03	.03
5.6200	.03	.03	.03	.03	.03
5.7200	.03	.03	.03	.03	.03
5.8200	.03	.03	.03	.03	.03
5.9200	.03	.03	.03	.03	.03
6.0200	.03	.03	.03	.03	.03
6.1200	.03	.03	.03	.03	.03
6.2200	.03	.03	.03	.03	.03
6.3200	.03	.03	.03	.03	.03
6.4200	.03	.03	.03	.03	.03
6.5200	.03	.03	.03	.03	.03
6.6200	.03	.03	.03	.03	.03
6.7200	.03	.03	.03	.04	.04
6.8200	.04	.04	.04	.04	.04
6.9200	.04	.04	.04	.04	.04
7.0200	.04	.04	.04	.04	.04
7.1200	.04	.04	.04	.04	.04
7.2200	.04	.04	.04	.04	.04
7.3200	.04	.04	.04	.04	.04

7.4200	.04	.04	.04	.04	.04
7.5200	.04	.04	.04	.04	.04
7.6200	.04	.04	.04	.04	.04
7.7200	.04	.04	.04	.04	.04
7.8200	.04	.04	.04	.04	.04
7.9200	.04	.04	.04	.04	.04
8.0200	.04	.04	.04	.04	.04
8.1200	.04	.04	.04	.04	.04
8.2200	.04	.04	.04	.04	.05
8.3200	.05	.05	.05	.05	.05
8.4200	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.48

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time hrs | Time on left represents time for first value in each row.

8.5200	.05	.05	.05	.05	.05
8.6200	.05	.05	.05	.05	.05
8.7200	.05	.05	.05	.05	.06
8.8200	.06	.06	.06	.06	.06
8.9200	.06	.06	.06	.06	.06
9.0200	.06	.06	.06	.06	.06
9.1200	.06	.06	.06	.06	.06
9.2200	.06	.06	.06	.06	.06
9.3200	.06	.06	.06	.06	.06
9.4200	.06	.06	.06	.06	.06
9.5200	.06	.06	.06	.06	.06
9.6200	.06	.06	.06	.06	.06
9.7200	.07	.07	.07	.07	.07
9.8200	.07	.07	.07	.07	.07
9.9200	.07	.07	.07	.07	.07
10.0200	.07	.08	.08	.08	.08
10.1200	.08	.08	.08	.08	.08
10.2200	.08	.08	.08	.09	.09
10.3200	.09	.09	.09	.09	.09
10.4200	.09	.09	.09	.10	.10
10.5200	.10	.10	.10	.10	.10
10.6200	.10	.10	.11	.11	.11
10.7200	.11	.11	.11	.12	.12
10.8200	.12	.12	.12	.12	.12
10.9200	.13	.13	.13	.13	.13
11.0200	.13	.14	.14	.14	.14

11.1200	.15	.15	.15	.16	.16
11.2200	.16	.17	.17	.17	.18
11.3200	.18	.18	.19	.19	.20
11.4200	.20	.20	.21	.21	.22
11.5200	.22	.24	.26	.30	.34
11.6200	.37	.42	.47	.53	.60
11.7200	.65	.72	.78	.86	.92
11.8200	.99	1.07	1.16	1.26	2.10
11.9200	2.67	2.54	2.38	2.20	2.07
12.0200	1.95	1.71	1.32	1.28	1.24
12.1200	1.17	1.10	1.03	.96	.89
12.2200	.81	.74	.67	.61	.55
12.3200	.49	.45	.41	.37	.33
12.4200	.31	.29	.27	.25	.24
12.5200	.23	.22	.21	.20	.19
12.6200	.19	.18	.18	.17	.17
12.7200	.17	.17	.16	.16	.16
12.8200	.16	.15	.15	.15	.15
12.9200	.14	.14	.14	.14	.14

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.49

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
13.0200	.13	.13	.13	.13	.13
13.1200	.13	.12	.12	.12	.12
13.2200	.12	.12	.12	.11	.11
13.3200	.11	.11	.11	.11	.11
13.4200	.11	.11	.10	.10	.10
13.5200	.10	.10	.10	.10	.10
13.6200	.10	.09	.09	.09	.09
13.7200	.09	.09	.09	.09	.09
13.8200	.09	.09	.09	.08	.08
13.9200	.08	.08	.08	.08	.08
14.0200	.08	.08	.08	.08	.08
14.1200	.08	.08	.07	.07	.07
14.2200	.07	.07	.07	.07	.07
14.3200	.07	.07	.07	.07	.07
14.4200	.07	.07	.07	.07	.07
14.5200	.07	.07	.07	.07	.07
14.6200	.07	.07	.07	.07	.07
14.7200	.07	.07	.07	.07	.07

14.8200	.06	.06	.06	.06	.06
14.9200	.06	.06	.06	.06	.06
15.0200	.06	.06	.06	.06	.06
15.1200	.06	.06	.06	.06	.06
15.2200	.06	.06	.06	.06	.06
15.3200	.06	.06	.06	.06	.06
15.4200	.06	.06	.06	.06	.06
15.5200	.06	.05	.05	.05	.05
15.6200	.05	.05	.05	.05	.05
15.7200	.05	.05	.05	.05	.05
15.8200	.05	.05	.05	.05	.05
15.9200	.05	.05	.05	.05	.05
16.0200	.05	.05	.05	.05	.05
16.1200	.05	.05	.05	.05	.05
16.2200	.05	.05	.05	.05	.05
16.3200	.05	.05	.05	.05	.05
16.4200	.05	.04	.04	.04	.04
16.5200	.04	.04	.04	.04	.04
16.6200	.04	.04	.04	.04	.04
16.7200	.04	.04	.04	.04	.04
16.8200	.04	.04	.04	.04	.04
16.9200	.04	.04	.04	.04	.04
17.0200	.04	.04	.04	.04	.04
17.1200	.04	.04	.04	.04	.04
17.2200	.04	.04	.04	.04	.04
17.3200	.04	.04	.04	.04	.04
17.4200	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.50

Name.... POND 10      OUT      Tag:      15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

17.5200	.04	.04	.04	.04	.04
17.6200	.04	.04	.04	.04	.04
17.7200	.04	.04	.04	.04	.04
17.8200	.04	.04	.04	.04	.04
17.9200	.04	.04	.04	.04	.04
18.0200	.04	.04	.04	.04	.04
18.1200	.04	.04	.04	.04	.04
18.2200	.04	.04	.04	.04	.04
18.3200	.04	.04	.04	.04	.04
18.4200	.03	.03	.03	.03	.03



18.5200	.03	.03	.03	.03	.03
18.6200	.03	.03	.03	.03	.03
18.7200	.03	.03	.03	.03	.03
18.8200	.03	.03	.03	.03	.03
18.9200	.03	.03	.03	.03	.03
19.0200	.03	.03	.03	.03	.03
19.1200	.03	.03	.03	.03	.03
19.2200	.03	.03	.03	.03	.03
19.3200	.03	.03	.03	.03	.03
19.4200	.03	.03	.03	.03	.03
19.5200	.03	.03	.03	.03	.03
19.6200	.03	.03	.03	.03	.03
19.7200	.03	.03	.03	.03	.03
19.8200	.03	.03	.03	.03	.03
19.9200	.03	.03	.03	.03	.03
20.0200	.03	.03	.03	.03	.03
20.1200	.03	.03	.03	.03	.03
20.2200	.03	.03	.03	.03	.03
20.3200	.03	.03	.03	.03	.03
20.4200	.03	.03	.03	.03	.03
20.5200	.03	.03	.03	.03	.03
20.6200	.03	.03	.03	.03	.03
20.7200	.03	.03	.03	.03	.03
20.8200	.03	.03	.03	.03	.03
20.9200	.03	.03	.03	.03	.03
21.0200	.03	.03	.03	.03	.03
21.1200	.03	.03	.03	.03	.03
21.2200	.03	.03	.03	.03	.03
21.3200	.03	.03	.03	.03	.03
21.4200	.03	.02	.02	.02	.02
21.5200	.02	.02	.02	.02	.02
21.6200	.02	.02	.02	.02	.02
21.7200	.02	.02	.02	.02	.02
21.8200	.02	.02	.02	.02	.02
21.9200	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.51

Name.... POND 10 OUT Tag: 15

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
22.0200	.02	.02	.02	.02	.02
22.1200	.02	.02	.02	.02	.02

22.2200	.02	.02	.02	.02	.02
22.3200	.02	.02	.02	.02	.02
22.4200	.02	.02	.02	.02	.02
22.5200	.02	.02	.02	.02	.02
22.6200	.02	.02	.02	.02	.02
22.7200	.02	.02	.02	.02	.02
22.8200	.02	.02	.02	.02	.02
22.9200	.02	.02	.02	.02	.02
23.0200	.02	.02	.02	.02	.02
23.1200	.02	.02	.02	.02	.02
23.2200	.02	.02	.02	.02	.02
23.3200	.02	.02	.02	.02	.02
23.4200	.02	.02	.02	.02	.02
23.5200	.02	.02	.02	.02	.02
23.6200	.02	.02	.02	.02	.02
23.7200	.02	.02	.02	.02	.02
23.8200	.02	.02	.02	.02	.02
23.9200	.02	.02	.02	.02	.02
24.0200	.02	.02	.02	.02	.01
24.1200	.01	.01	.01	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:

↑

Type.... Pond Routing Summary

Page 14.52

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

#### LEVEL POOL ROUTING SUMMARY

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\  
 Inflow HYG file = NONE STORED - POND 10 IN 25  
 Outflow HYG file = NONE STORED - POND 10 OUT 25

Pond Node Data = POND 10  
 Pond Volume Data = POND 10  
 Pond Outlet Data = Outlet 1

No Infiltration

#### INITIAL CONDITIONS

-----  
 Starting WS Elev = 592.26 ft  
 Starting Volume = .000 ac-ft  
 Starting Outflow = .00 cfs  
 Starting Infiltr. = .00 cfs  
 Starting Total Qout = .00 cfs  
 Time Increment = .0200 hrs



1.2400	.00	.00	.00	.00	.00
1.3400	.00	.00	.00	.00	.00
1.4400	.00	.00	.00	.00	.00
1.5400	.00	.00	.00	.00	.00
1.6400	.00	.00	.00	.00	.00
1.7400	.00	.00	.00	.00	.00
1.8400	.00	.00	.00	.00	.00
1.9400	.00	.00	.00	.00	.00
2.0400	.00	.00	.00	.00	.00
2.1400	.00	.00	.00	.00	.00
2.2400	.00	.00	.00	.00	.00
2.3400	.00	.01	.01	.01	.01
2.4400	.01	.01	.02	.02	.02
2.5400	.02	.02	.02	.02	.02
2.6400	.02	.02	.02	.02	.02
2.7400	.02	.02	.02	.02	.02
2.8400	.02	.02	.02	.02	.02
2.9400	.02	.02	.02	.02	.02
3.0400	.02	.02	.02	.02	.02
3.1400	.02	.02	.02	.02	.02
3.2400	.02	.02	.02	.02	.02
3.3400	.02	.02	.02	.02	.02
3.4400	.02	.02	.02	.02	.02
3.5400	.02	.02	.02	.02	.02
3.6400	.02	.02	.02	.02	.02
3.7400	.02	.02	.02	.02	.02
3.8400	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.54

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time hrs | Time on left represents time for first value in each row.

3.9400	.02	.02	.02	.02	.02
4.0400	.02	.02	.02	.02	.02
4.1400	.02	.02	.02	.03	.03
4.2400	.03	.03	.03	.03	.03
4.3400	.03	.03	.03	.03	.03
4.4400	.03	.03	.03	.03	.03
4.5400	.03	.03	.03	.03	.03
4.6400	.03	.03	.03	.03	.03
4.7400	.03	.03	.03	.03	.03
4.8400	.03	.03	.03	.03	.03

4.9400	.03	.03	.03	.03	.03
5.0400	.03	.03	.03	.03	.03
5.1400	.03	.03	.03	.03	.03
5.2400	.03	.03	.03	.03	.03
5.3400	.03	.03	.03	.03	.03
5.4400	.03	.03	.03	.03	.03
5.5400	.03	.03	.03	.03	.03
5.6400	.03	.03	.03	.03	.03
5.7400	.03	.03	.03	.03	.03
5.8400	.03	.03	.03	.03	.04
5.9400	.04	.04	.04	.04	.04
6.0400	.04	.04	.04	.04	.04
6.1400	.04	.04	.04	.04	.04
6.2400	.04	.04	.04	.04	.04
6.3400	.04	.04	.04	.04	.04
6.4400	.04	.04	.04	.04	.04
6.5400	.04	.04	.04	.04	.04
6.6400	.04	.04	.04	.04	.04
6.7400	.04	.04	.04	.04	.04
6.8400	.04	.04	.04	.04	.04
6.9400	.04	.04	.04	.04	.04
7.0400	.04	.04	.04	.04	.04
7.1400	.04	.04	.04	.04	.04
7.2400	.04	.04	.04	.04	.04
7.3400	.04	.04	.04	.04	.04
7.4400	.04	.04	.04	.04	.04
7.5400	.04	.04	.04	.04	.04
7.6400	.04	.04	.04	.04	.04
7.7400	.04	.04	.04	.05	.05
7.8400	.05	.05	.05	.05	.05
7.9400	.05	.05	.05	.05	.05
8.0400	.05	.05	.05	.05	.05
8.1400	.05	.05	.05	.05	.05
8.2400	.05	.05	.05	.05	.05
8.3400	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.55

Name.... POND 10      OUT      Tag:      25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
8.4400	.05	.05	.05	.06	.06
8.5400	.06	.06	.06	.06	.06

8.6400	.06	.06	.06	.06	.06
8.7400	.06	.06	.06	.06	.06
8.8400	.06	.06	.06	.06	.06
8.9400	.07	.07	.07	.07	.07
9.0400	.07	.07	.07	.07	.07
9.1400	.07	.07	.07	.07	.07
9.2400	.07	.07	.07	.07	.07
9.3400	.07	.07	.07	.07	.07
9.4400	.07	.07	.07	.07	.07
9.5400	.07	.07	.07	.07	.07
9.6400	.07	.07	.07	.07	.07
9.7400	.07	.07	.08	.08	.08
9.8400	.08	.08	.08	.08	.08
9.9400	.08	.08	.08	.08	.08
10.0400	.08	.09	.09	.09	.09
10.1400	.09	.09	.09	.09	.09
10.2400	.09	.10	.10	.10	.10
10.3400	.10	.10	.10	.10	.10
10.4400	.10	.11	.11	.11	.11
10.5400	.11	.11	.11	.11	.12
10.6400	.12	.12	.12	.12	.12
10.7400	.13	.13	.13	.13	.13
10.8400	.13	.14	.14	.14	.14
10.9400	.14	.14	.15	.15	.15
11.0400	.15	.15	.16	.16	.16
11.1400	.17	.17	.17	.18	.18
11.2400	.19	.19	.19	.20	.20
11.3400	.21	.21	.22	.22	.22
11.4400	.23	.23	.24	.24	.25
11.5400	.26	.29	.33	.37	.42
11.6400	.46	.51	.59	.65	.71
11.7400	.78	.85	.93	1.00	1.07
11.8400	1.16	1.25	2.03	2.90	2.88
11.9400	2.84	2.65	2.45	2.31	2.17
12.0400	1.90	1.47	1.29	1.25	1.19
12.1400	1.13	1.06	.99	.92	.86
12.2400	.79	.72	.66	.60	.55
12.3400	.50	.46	.42	.38	.35
12.4400	.33	.30	.29	.27	.26
12.5400	.25	.24	.23	.22	.21
12.6400	.20	.20	.19	.19	.19
12.7400	.18	.18	.18	.18	.17
12.8400	.17	.17	.17	.16	.16

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.56

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
12.9400	.16	.16	.15	.15	.15
13.0400	.15	.15	.14	.14	.14
13.1400	.14	.14	.13	.13	.13
13.2400	.13	.13	.13	.13	.13
13.3400	.12	.12	.12	.12	.12
13.4400	.12	.12	.11	.11	.11
13.5400	.11	.11	.11	.11	.11
13.6400	.11	.10	.10	.10	.10
13.7400	.10	.10	.10	.10	.10
13.8400	.10	.10	.09	.09	.09
13.9400	.09	.09	.09	.09	.09
14.0400	.09	.09	.09	.09	.08
14.1400	.08	.08	.08	.08	.08
14.2400	.08	.08	.08	.08	.08
14.3400	.08	.08	.08	.08	.08
14.4400	.08	.08	.08	.08	.08
14.5400	.08	.08	.08	.08	.08
14.6400	.08	.07	.07	.07	.07
14.7400	.07	.07	.07	.07	.07
14.8400	.07	.07	.07	.07	.07
14.9400	.07	.07	.07	.07	.07
15.0400	.07	.07	.07	.07	.07
15.1400	.07	.07	.07	.07	.07
15.2400	.07	.07	.07	.06	.06
15.3400	.06	.06	.06	.06	.06
15.4400	.06	.06	.06	.06	.06
15.5400	.06	.06	.06	.06	.06
15.6400	.06	.06	.06	.06	.06
15.7400	.06	.06	.06	.06	.06
15.8400	.06	.06	.06	.06	.06
15.9400	.05	.05	.05	.05	.05
16.0400	.05	.05	.05	.05	.05
16.1400	.05	.05	.05	.05	.05
16.2400	.05	.05	.05	.05	.05
16.3400	.05	.05	.05	.05	.05
16.4400	.05	.05	.05	.05	.05
16.5400	.05	.05	.05	.05	.05
16.6400	.05	.05	.05	.05	.05
16.7400	.05	.05	.05	.05	.05
16.8400	.05	.05	.05	.05	.05
16.9400	.05	.05	.05	.05	.05
17.0400	.05	.05	.05	.05	.05
17.1400	.05	.05	.05	.05	.05
17.2400	.05	.05	.05	.05	.05

17.3400 | .05 .04 .04 .04 .04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.57

Name.... POND 10 OUT Tag: 25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
17.4400	.04	.04	.04	.04	.04
17.5400	.04	.04	.04	.04	.04
17.6400	.04	.04	.04	.04	.04
17.7400	.04	.04	.04	.04	.04
17.8400	.04	.04	.04	.04	.04
17.9400	.04	.04	.04	.04	.04
18.0400	.04	.04	.04	.04	.04
18.1400	.04	.04	.04	.04	.04
18.2400	.04	.04	.04	.04	.04
18.3400	.04	.04	.04	.04	.04
18.4400	.04	.04	.04	.04	.04
18.5400	.04	.04	.04	.04	.04
18.6400	.04	.04	.04	.04	.04
18.7400	.04	.04	.04	.04	.04
18.8400	.04	.04	.04	.04	.04
18.9400	.04	.04	.04	.04	.04
19.0400	.04	.04	.04	.04	.03
19.1400	.03	.03	.03	.03	.03
19.2400	.03	.03	.03	.03	.03
19.3400	.03	.03	.03	.03	.03
19.4400	.03	.03	.03	.03	.03
19.5400	.03	.03	.03	.03	.03
19.6400	.03	.03	.03	.03	.03
19.7400	.03	.03	.03	.03	.03
19.8400	.03	.03	.03	.03	.03
19.9400	.03	.03	.03	.03	.03
20.0400	.03	.03	.03	.03	.03
20.1400	.03	.03	.03	.03	.03
20.2400	.03	.03	.03	.03	.03
20.3400	.03	.03	.03	.03	.03
20.4400	.03	.03	.03	.03	.03
20.5400	.03	.03	.03	.03	.03
20.6400	.03	.03	.03	.03	.03
20.7400	.03	.03	.03	.03	.03
20.8400	.03	.03	.03	.03	.03
20.9400	.03	.03	.03	.03	.03



21.0400	.03	.03	.03	.03	.03
21.1400	.03	.03	.03	.03	.03
21.2400	.03	.03	.03	.03	.03
21.3400	.03	.03	.03	.03	.03
21.4400	.03	.03	.03	.03	.03
21.5400	.03	.03	.03	.03	.03
21.6400	.03	.03	.03	.03	.03
21.7400	.03	.03	.03	.03	.03
21.8400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.58

Name.... POND 10      OUT      Tag:      25

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
21.9400	.03	.03	.03	.03	.03
22.0400	.03	.03	.03	.03	.03
22.1400	.03	.03	.03	.03	.03
22.2400	.03	.03	.03	.03	.03
22.3400	.03	.03	.03	.03	.03
22.4400	.03	.03	.03	.03	.03
22.5400	.03	.03	.03	.03	.03
22.6400	.03	.03	.03	.03	.03
22.7400	.03	.03	.03	.03	.03
22.8400	.03	.03	.03	.03	.03
22.9400	.03	.03	.03	.03	.03
23.0400	.03	.03	.03	.03	.03
23.1400	.03	.03	.03	.03	.03
23.2400	.03	.03	.03	.03	.03
23.3400	.03	.03	.03	.03	.03
23.4400	.03	.03	.03	.03	.03
23.5400	.03	.03	.03	.03	.03
23.6400	.03	.03	.03	.03	.03
23.7400	.03	.03	.03	.03	.03
23.8400	.03	.03	.03	.03	.03
23.9400	.03	.03	.02	.02	.02
24.0400	.02	.02	.02	.01	.01
24.1400	.01	.01	.00	.00	

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routing Summary

Page 14.59





Type.... Pond Routed HYG (total out)

Page 14.60

Name.... POND 10      OUT      Tag:      50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      50

POND ROUTED TOTAL OUTFLOW HYG...

HYG file =

HYG ID = POND 10      OUT

HYG Tag =      50

-----  
Peak Discharge =      3.31 cfs

Time to Peak =      11.9200 hrs

HYG Volume =      .204 ac-ft  
-----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time      |      Time on left represents time for first value in each row.  
hrs      |

.7200	.00	.00	.00	.00	.00
.8200	.00	.00	.00	.00	.00
.9200	.00	.00	.00	.00	.00
1.0200	.00	.00	.00	.00	.00
1.1200	.00	.00	.00	.00	.00
1.2200	.00	.00	.00	.00	.00
1.3200	.00	.00	.00	.00	.00
1.4200	.00	.00	.00	.00	.00
1.5200	.00	.00	.00	.00	.00
1.6200	.00	.00	.00	.00	.00
1.7200	.00	.00	.00	.00	.00
1.8200	.00	.00	.00	.00	.00
1.9200	.00	.00	.00	.00	.00
2.0200	.00	.00	.00	.00	.01
2.1200	.01	.01	.01	.02	.02
2.2200	.02	.02	.02	.02	.02
2.3200	.02	.02	.02	.02	.02
2.4200	.02	.02	.02	.02	.02
2.5200	.02	.02	.02	.02	.02
2.6200	.02	.02	.02	.02	.02
2.7200	.02	.02	.02	.02	.02
2.8200	.02	.02	.02	.02	.02
2.9200	.02	.02	.02	.02	.02
3.0200	.02	.02	.02	.02	.02
3.1200	.02	.02	.02	.02	.02
3.2200	.02	.02	.02	.02	.03
3.3200	.03	.03	.03	.03	.03
3.4200	.03	.03	.03	.03	.03
3.5200	.03	.03	.03	.03	.03

3.6200		.03	.03	.03	.03	.03
3.7200		.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.61

Name.... POND 10 OUT Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
3.8200	.03	.03	.03	.03	.03
3.9200	.03	.03	.03	.03	.03
4.0200	.03	.03	.03	.03	.03
4.1200	.03	.03	.03	.03	.03
4.2200	.03	.03	.03	.03	.03
4.3200	.03	.03	.03	.03	.03
4.4200	.03	.03	.03	.03	.03
4.5200	.03	.03	.03	.03	.03
4.6200	.03	.03	.03	.03	.03
4.7200	.03	.03	.03	.03	.03
4.8200	.03	.03	.03	.03	.03
4.9200	.03	.03	.03	.03	.04
5.0200	.04	.04	.04	.04	.04
5.1200	.04	.04	.04	.04	.04
5.2200	.04	.04	.04	.04	.04
5.3200	.04	.04	.04	.04	.04
5.4200	.04	.04	.04	.04	.04
5.5200	.04	.04	.04	.04	.04
5.6200	.04	.04	.04	.04	.04
5.7200	.04	.04	.04	.04	.04
5.8200	.04	.04	.04	.04	.04
5.9200	.04	.04	.04	.04	.04
6.0200	.04	.04	.04	.04	.04
6.1200	.04	.04	.04	.04	.04
6.2200	.04	.04	.04	.04	.04
6.3200	.04	.04	.04	.04	.04
6.4200	.04	.04	.04	.04	.04
6.5200	.04	.04	.04	.04	.04
6.6200	.05	.05	.05	.05	.05
6.7200	.05	.05	.05	.05	.05
6.8200	.05	.05	.05	.05	.05
6.9200	.05	.05	.05	.05	.05
7.0200	.05	.05	.05	.05	.05
7.1200	.05	.05	.05	.05	.05
7.2200	.05	.05	.05	.05	.05

7.3200	.05	.05	.05	.05	.05
7.4200	.05	.05	.05	.05	.05
7.5200	.05	.05	.05	.05	.05
7.6200	.05	.05	.05	.05	.05
7.7200	.05	.05	.05	.05	.05
7.8200	.05	.05	.05	.05	.05
7.9200	.05	.05	.05	.05	.05
8.0200	.05	.05	.05	.05	.05
8.1200	.05	.05	.06	.06	.06
8.2200	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.62

Name.... POND 10 OUT Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
8.3200	.06	.06	.06	.06	.06
8.4200	.06	.06	.06	.06	.06
8.5200	.06	.06	.07	.07	.07
8.6200	.07	.07	.07	.07	.07
8.7200	.07	.07	.07	.07	.07
8.8200	.07	.07	.07	.07	.07
8.9200	.07	.07	.08	.08	.08
9.0200	.08	.08	.08	.08	.08
9.1200	.08	.08	.08	.08	.08
9.2200	.08	.08	.08	.08	.08
9.3200	.08	.08	.08	.08	.08
9.4200	.08	.08	.08	.08	.08
9.5200	.08	.08	.08	.08	.08
9.6200	.08	.08	.08	.08	.08
9.7200	.08	.08	.09	.09	.09
9.8200	.09	.09	.09	.09	.09
9.9200	.09	.09	.09	.09	.10
10.0200	.10	.10	.10	.10	.10
10.1200	.10	.10	.10	.10	.11
10.2200	.11	.11	.11	.11	.11
10.3200	.11	.11	.12	.12	.12
10.4200	.12	.12	.12	.12	.12
10.5200	.12	.13	.13	.13	.13
10.6200	.13	.13	.14	.14	.14
10.7200	.14	.14	.15	.15	.15
10.8200	.15	.15	.16	.16	.16
10.9200	.16	.16	.17	.17	.17

11.0200	.17	.17	.18	.18	.18
11.1200	.19	.19	.19	.20	.20
11.2200	.21	.21	.22	.22	.23
11.3200	.23	.24	.24	.25	.25
11.4200	.26	.26	.27	.27	.28
11.5200	.28	.30	.33	.38	.42
11.6200	.46	.51	.58	.65	.72
11.7200	.79	.86	.93	1.02	1.10
11.8200	1.18	1.27	2.18	3.01	3.19
11.9200	3.31	3.24	3.02	2.79	2.63
12.0200	2.48	2.17	1.67	1.30	1.27
12.1200	1.22	1.16	1.10	1.04	.97
12.2200	.91	.85	.78	.73	.67
12.3200	.62	.57	.52	.48	.45
12.4200	.42	.39	.36	.33	.31
12.5200	.30	.28	.27	.26	.25
12.6200	.24	.23	.23	.22	.22
12.7200	.21	.21	.21	.20	.20

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.63

Name.... POND 10 OUT Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
12.8200	.20	.19	.19	.19	.19
12.9200	.18	.18	.18	.18	.17
13.0200	.17	.17	.17	.16	.16
13.1200	.16	.16	.16	.15	.15
13.2200	.15	.15	.15	.15	.14
13.3200	.14	.14	.14	.14	.14
13.4200	.14	.13	.13	.13	.13
13.5200	.13	.13	.13	.12	.12
13.6200	.12	.12	.12	.12	.12
13.7200	.12	.11	.11	.11	.11
13.8200	.11	.11	.11	.11	.11
13.9200	.11	.10	.10	.10	.10
14.0200	.10	.10	.10	.10	.10
14.1200	.10	.10	.10	.09	.09
14.2200	.09	.09	.09	.09	.09
14.3200	.09	.09	.09	.09	.09
14.4200	.09	.09	.09	.09	.09
14.5200	.09	.09	.09	.09	.09
14.6200	.09	.09	.09	.09	.08

14.7200	.08	.08	.08	.08	.08
14.8200	.08	.08	.08	.08	.08
14.9200	.08	.08	.08	.08	.08
15.0200	.08	.08	.08	.08	.08
15.1200	.08	.08	.08	.08	.08
15.2200	.08	.07	.07	.07	.07
15.3200	.07	.07	.07	.07	.07
15.4200	.07	.07	.07	.07	.07
15.5200	.07	.07	.07	.07	.07
15.6200	.07	.07	.07	.07	.07
15.7200	.07	.07	.07	.07	.06
15.8200	.06	.06	.06	.06	.06
15.9200	.06	.06	.06	.06	.06
16.0200	.06	.06	.06	.06	.06
16.1200	.06	.06	.06	.06	.06
16.2200	.06	.06	.06	.06	.06
16.3200	.06	.06	.06	.06	.06
16.4200	.06	.06	.06	.06	.06
16.5200	.06	.06	.06	.06	.06
16.6200	.06	.06	.06	.06	.06
16.7200	.06	.06	.06	.05	.05
16.8200	.05	.05	.05	.05	.05
16.9200	.05	.05	.05	.05	.05
17.0200	.05	.05	.05	.05	.05
17.1200	.05	.05	.05	.05	.05
17.2200	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.64

Name.... POND 10 OUT Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
17.3200	.05	.05	.05	.05	.05
17.4200	.05	.05	.05	.05	.05
17.5200	.05	.05	.05	.05	.05
17.6200	.05	.05	.05	.05	.05
17.7200	.05	.05	.05	.05	.05
17.8200	.05	.05	.05	.05	.05
17.9200	.05	.05	.05	.05	.05
18.0200	.05	.05	.05	.05	.05
18.1200	.05	.05	.05	.05	.05
18.2200	.05	.05	.05	.05	.05
18.3200	.05	.04	.04	.04	.04

18.4200	.04	.04	.04	.04	.04
18.5200	.04	.04	.04	.04	.04
18.6200	.04	.04	.04	.04	.04
18.7200	.04	.04	.04	.04	.04
18.8200	.04	.04	.04	.04	.04
18.9200	.04	.04	.04	.04	.04
19.0200	.04	.04	.04	.04	.04
19.1200	.04	.04	.04	.04	.04
19.2200	.04	.04	.04	.04	.04
19.3200	.04	.04	.04	.04	.04
19.4200	.04	.04	.04	.04	.04
19.5200	.04	.04	.04	.04	.04
19.6200	.04	.04	.04	.04	.04
19.7200	.04	.04	.04	.04	.04
19.8200	.04	.04	.04	.03	.03
19.9200	.03	.03	.03	.03	.03
20.0200	.03	.03	.03	.03	.03
20.1200	.03	.03	.03	.03	.03
20.2200	.03	.03	.03	.03	.03
20.3200	.03	.03	.03	.03	.03
20.4200	.03	.03	.03	.03	.03
20.5200	.03	.03	.03	.03	.03
20.6200	.03	.03	.03	.03	.03
20.7200	.03	.03	.03	.03	.03
20.8200	.03	.03	.03	.03	.03
20.9200	.03	.03	.03	.03	.03
21.0200	.03	.03	.03	.03	.03
21.1200	.03	.03	.03	.03	.03
21.2200	.03	.03	.03	.03	.03
21.3200	.03	.03	.03	.03	.03
21.4200	.03	.03	.03	.03	.03
21.5200	.03	.03	.03	.03	.03
21.6200	.03	.03	.03	.03	.03
21.7200	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.65

Name.... POND 10 OUT Tag: 50

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
21.8200	.03	.03	.03	.03	.03
21.9200	.03	.03	.03	.03	.03
22.0200	.03	.03	.03	.03	.03



22.1200	.03	.03	.03	.03	.03
22.2200	.03	.03	.03	.03	.03
22.3200	.03	.03	.03	.03	.03
22.4200	.03	.03	.03	.03	.03
22.5200	.03	.03	.03	.03	.03
22.6200	.03	.03	.03	.03	.03
22.7200	.03	.03	.03	.03	.03
22.8200	.03	.03	.03	.03	.03
22.9200	.03	.03	.03	.03	.03
23.0200	.03	.03	.03	.03	.03
23.1200	.03	.03	.03	.03	.03
23.2200	.03	.03	.03	.03	.03
23.3200	.03	.03	.03	.03	.03
23.4200	.03	.03	.03	.03	.03
23.5200	.03	.03	.03	.03	.03
23.6200	.03	.03	.03	.03	.03
23.7200	.03	.03	.03	.03	.03
23.8200	.03	.03	.03	.03	.03
23.9200	.03	.03	.03	.03	.03
24.0200	.03	.03	.02	.02	.02
24.1200	.01	.01	.01	.00	.00
24.2200	.00				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routing Summary

Page 14.66

Name.... POND 10 OUT Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

#### LEVEL POOL ROUTING SUMMARY

HYG Dir = R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Inflow HYG file = NONE STORED - POND 10 IN 100

Outflow HYG file = NONE STORED - POND 10 OUT 100

Pond Node Data = POND 10

Pond Volume Data = POND 10

Pond Outlet Data = Outlet 1

No Infiltration

#### INITIAL CONDITIONS

-----  
Starting WS Elev = 592.26 ft

Starting Volume = .000 ac-ft

Starting Outflow = .00 cfs

Starting Infiltr. = .00 cfs

Starting Total Qout= .00 cfs

Time Increment = .0200 hrs

INFLOW/OUTFLOW HYDROGRAPH SUMMARY

```
=====
Peak Inflow      =      3.75 cfs    at   11.9200 hrs
Peak Outflow     =      3.74 cfs    at   11.9200 hrs
-----
Peak Elevation   =      595.51 ft
Peak Storage     =           .015 ac-ft
=====
```

MASS BALANCE (ac-ft)

```
-----
+ Initial Vol   =      .000
+ HYG Vol IN    =      .232
- Infiltration  =      .000
- HYG Vol OUT   =      .231
- Retained Vol  =      .001
-----
Unrouted Vol =      -.000 ac-ft (.000% of Inflow Volume)
```

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out) Page 14.67  
Name.... POND 10 OUT Tag: 100 Event: 100 yr  
File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW  
Storm... TypeII 24hr Tag: 100

POND ROUTED TOTAL OUTFLOW HYG...

HYG file =  
HYG ID = POND 10 OUT  
HYG Tag = 100

```
-----
Peak Discharge =      3.74 cfs
Time to Peak   =     11.9200 hrs
HYG Volume     =           .231 ac-ft
-----
```

HYDROGRAPH ORDINATES (cfs)

Time |  
hrs	Output Time increment = .0200 hrs
Time on left represents time for first value in each row.

.6400	.00	.00	.00	.00	.00
.7400	.00	.00	.00	.00	.00

.8400	.00	.00	.00	.00	.00
.9400	.00	.00	.00	.00	.00
1.0400	.00	.00	.00	.00	.00
1.1400	.00	.00	.00	.00	.00
1.2400	.00	.00	.00	.00	.00
1.3400	.00	.00	.00	.00	.00
1.4400	.00	.00	.00	.00	.00
1.5400	.00	.00	.00	.00	.00
1.6400	.00	.00	.00	.00	.00
1.7400	.00	.00	.00	.00	.00
1.8400	.00	.00	.01	.01	.01
1.9400	.02	.02	.02	.02	.02
2.0400	.02	.02	.02	.02	.02
2.1400	.02	.02	.02	.02	.02
2.2400	.02	.02	.02	.02	.02
2.3400	.02	.02	.02	.02	.02
2.4400	.02	.02	.02	.02	.02
2.5400	.02	.02	.02	.02	.03
2.6400	.03	.03	.03	.03	.03
2.7400	.03	.03	.03	.03	.03
2.8400	.03	.03	.03	.03	.03
2.9400	.03	.03	.03	.03	.03
3.0400	.03	.03	.03	.03	.03
3.1400	.03	.03	.03	.03	.03
3.2400	.03	.03	.03	.03	.03
3.3400	.03	.03	.03	.03	.03
3.4400	.03	.03	.03	.03	.03
3.5400	.03	.03	.03	.03	.03
3.6400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.68

Name.... POND 10 OUT Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
3.7400	.03	.03	.03	.03	.03
3.8400	.03	.03	.03	.03	.03
3.9400	.03	.03	.03	.03	.03
4.0400	.03	.03	.03	.03	.03
4.1400	.03	.03	.03	.03	.03
4.2400	.04	.04	.04	.04	.04
4.3400	.04	.04	.04	.04	.04
4.4400	.04	.04	.04	.04	.04

4.5400	.04	.04	.04	.04	.04
4.6400	.04	.04	.04	.04	.04
4.7400	.04	.04	.04	.04	.04
4.8400	.04	.04	.04	.04	.04
4.9400	.04	.04	.04	.04	.04
5.0400	.04	.04	.04	.04	.04
5.1400	.04	.04	.04	.04	.04
5.2400	.04	.04	.04	.04	.04
5.3400	.04	.04	.04	.04	.04
5.4400	.04	.04	.04	.04	.04
5.5400	.04	.04	.04	.04	.04
5.6400	.05	.05	.05	.05	.05
5.7400	.05	.05	.05	.05	.05
5.8400	.05	.05	.05	.05	.05
5.9400	.05	.05	.05	.05	.05
6.0400	.05	.05	.05	.05	.05
6.1400	.05	.05	.05	.05	.05
6.2400	.05	.05	.05	.05	.05
6.3400	.05	.05	.05	.05	.05
6.4400	.05	.05	.05	.05	.05
6.5400	.05	.05	.05	.05	.05
6.6400	.05	.05	.05	.05	.05
6.7400	.05	.05	.05	.05	.05
6.8400	.05	.05	.05	.05	.05
6.9400	.05	.05	.05	.05	.05
7.0400	.05	.05	.05	.05	.05
7.1400	.06	.06	.06	.06	.06
7.2400	.06	.06	.06	.06	.06
7.3400	.06	.06	.06	.06	.06
7.4400	.06	.06	.06	.06	.06
7.5400	.06	.06	.06	.06	.06
7.6400	.06	.06	.06	.06	.06
7.7400	.06	.06	.06	.06	.06
7.8400	.06	.06	.06	.06	.06
7.9400	.06	.06	.06	.06	.06
8.0400	.06	.06	.06	.06	.06
8.1400	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.69

Name.... POND 10      OUT      Tag:      100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      100

HYDROGRAPH ORDINATES (cfs)

Time  
hrs

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

-----

8.2400	.06	.07	.07	.07	.07
8.3400	.07	.07	.07	.07	.07
8.4400	.07	.07	.07	.07	.07
8.5400	.07	.07	.07	.08	.08
8.6400	.08	.08	.08	.08	.08
8.7400	.08	.08	.08	.08	.08
8.8400	.08	.08	.08	.08	.08
8.9400	.09	.09	.09	.09	.09
9.0400	.09	.09	.09	.09	.09
9.1400	.09	.09	.09	.09	.09
9.2400	.09	.09	.09	.09	.09
9.3400	.09	.09	.09	.09	.09
9.4400	.09	.09	.09	.09	.09
9.5400	.09	.09	.09	.09	.09
9.6400	.09	.09	.09	.09	.10
9.7400	.10	.10	.10	.10	.10
9.8400	.10	.10	.10	.10	.10
9.9400	.11	.11	.11	.11	.11
10.0400	.11	.11	.11	.11	.11
10.1400	.12	.12	.12	.12	.12
10.2400	.12	.12	.13	.13	.13
10.3400	.13	.13	.13	.13	.13
10.4400	.14	.14	.14	.14	.14
10.5400	.14	.14	.15	.15	.15
10.6400	.15	.15	.16	.16	.16
10.7400	.16	.16	.17	.17	.17
10.8400	.17	.18	.18	.18	.18
10.9400	.19	.19	.19	.19	.20
11.0400	.20	.20	.20	.21	.21
11.1400	.22	.22	.23	.23	.24
11.2400	.24	.25	.25	.26	.26
11.3400	.27	.27	.28	.28	.29
11.4400	.29	.30	.31	.31	.32
11.5400	.34	.38	.42	.47	.51
11.6400	.57	.63	.72	.79	.86
11.7400	.94	1.02	1.11	1.20	1.29
11.8400	2.31	2.93	3.33	3.62	3.74
11.9400	3.66	3.42	3.16	2.98	2.80
12.0400	2.45	1.89	1.35	1.29	1.25
12.1400	1.20	1.14	1.08	1.02	.96
12.2400	.90	.85	.79	.74	.68
12.3400	.64	.59	.55	.51	.48
12.4400	.45	.42	.39	.36	.34
12.5400	.32	.31	.29	.28	.27
12.6400	.26	.26	.25	.25	.24

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.70



16.9400	.06	.06	.06	.06	.06
17.0400	.06	.06	.06	.06	.06
17.1400	.06	.06	.06	.06	.06

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.71

Name.... POND 10 OUT Tag: 100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
17.2400	.06	.06	.06	.06	.06
17.3400	.06	.06	.06	.06	.06
17.4400	.06	.06	.06	.06	.06
17.5400	.06	.06	.06	.06	.06
17.6400	.06	.06	.06	.06	.06
17.7400	.06	.05	.05	.05	.05
17.8400	.05	.05	.05	.05	.05
17.9400	.05	.05	.05	.05	.05
18.0400	.05	.05	.05	.05	.05
18.1400	.05	.05	.05	.05	.05
18.2400	.05	.05	.05	.05	.05
18.3400	.05	.05	.05	.05	.05
18.4400	.05	.05	.05	.05	.05
18.5400	.05	.05	.05	.05	.05
18.6400	.05	.05	.05	.05	.05
18.7400	.05	.05	.05	.05	.05
18.8400	.05	.05	.05	.05	.05
18.9400	.05	.05	.05	.05	.05
19.0400	.05	.05	.05	.05	.05
19.1400	.04	.04	.04	.04	.04
19.2400	.04	.04	.04	.04	.04
19.3400	.04	.04	.04	.04	.04
19.4400	.04	.04	.04	.04	.04
19.5400	.04	.04	.04	.04	.04
19.6400	.04	.04	.04	.04	.04
19.7400	.04	.04	.04	.04	.04
19.8400	.04	.04	.04	.04	.04
19.9400	.04	.04	.04	.04	.04
20.0400	.04	.04	.04	.04	.04
20.1400	.04	.04	.04	.04	.04
20.2400	.04	.04	.04	.04	.04
20.3400	.04	.04	.04	.04	.04
20.4400	.04	.04	.04	.04	.04
20.5400	.04	.04	.04	.04	.04

20.6400	.04	.04	.04	.04	.04
20.7400	.04	.04	.04	.04	.04
20.8400	.04	.04	.04	.04	.04
20.9400	.04	.04	.04	.04	.04
21.0400	.04	.04	.04	.04	.04
21.1400	.04	.04	.04	.04	.04
21.2400	.04	.04	.04	.04	.04
21.3400	.04	.04	.04	.04	.04
21.4400	.04	.04	.04	.04	.04
21.5400	.04	.04	.04	.04	.04
21.6400	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Pond Routed HYG (total out)

Page 14.72

Name.... POND 10      OUT      Tag:      100

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\FRONTIER INTEGRATED.PPW

Storm... TypeII 24hr      Tag:      100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time      |      Time on left represents time for first value in each row.  
 hrs

21.7400	.04	.04	.04	.04	.04
21.8400	.04	.04	.04	.04	.04
21.9400	.04	.04	.04	.04	.03
22.0400	.03	.03	.03	.03	.03
22.1400	.03	.03	.03	.03	.03
22.2400	.03	.03	.03	.03	.03
22.3400	.03	.03	.03	.03	.03
22.4400	.03	.03	.03	.03	.03
22.5400	.03	.03	.03	.03	.03
22.6400	.03	.03	.03	.03	.03
22.7400	.03	.03	.03	.03	.03
22.8400	.03	.03	.03	.03	.03
22.9400	.03	.03	.03	.03	.03
23.0400	.03	.03	.03	.03	.03
23.1400	.03	.03	.03	.03	.03
23.2400	.03	.03	.03	.03	.03
23.3400	.03	.03	.03	.03	.03
23.4400	.03	.03	.03	.03	.03
23.5400	.03	.03	.03	.03	.03
23.6400	.03	.03	.03	.03	.03
23.7400	.03	.03	.03	.03	.03
23.8400	.03	.03	.03	.03	.03
23.9400	.03	.03	.03	.03	.03
24.0400	.03	.03	.02	.02	.01
24.1400	.01	.01	.01	.00	.00



S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

Page 14.73

Name.... ROUTE 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 2

DIVERTED HYDROGRAPH...

HYG file =

HYG ID = ROUTE 10

HYG Tag = 2

-----  
Peak Discharge = 1.17 cfs

Time to Peak = 12.0200 hrs

HYG Volume = .094 ac-ft  
-----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time hrs | Time on left represents time for first value in each row.

Time hrs	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
3.8800	.00	.00	.01	.01	.01
3.9800	.01	.01	.01	.01	.01
4.0800	.01	.01	.01	.01	.01
4.1800	.01	.01	.01	.01	.01
4.2800	.01	.01	.01	.01	.01
4.3800	.01	.01	.01	.01	.01
4.4800	.01	.01	.01	.01	.01
4.5800	.01	.01	.01	.01	.01
4.6800	.01	.01	.01	.01	.01
4.7800	.01	.01	.01	.01	.01
4.8800	.01	.01	.01	.01	.01
4.9800	.01	.01	.01	.01	.01
5.0800	.01	.01	.01	.01	.01
5.1800	.01	.01	.01	.01	.01
5.2800	.01	.01	.01	.01	.01
5.3800	.01	.01	.01	.01	.01
5.4800	.01	.01	.01	.01	.02
5.5800	.02	.02	.02	.02	.02
5.6800	.02	.02	.02	.02	.02
5.7800	.02	.02	.02	.02	.02
5.8800	.02	.02	.02	.02	.02
5.9800	.02	.02	.02	.02	.02
6.0800	.02	.02	.02	.02	.02
6.1800	.02	.02	.02	.02	.02
6.2800	.02	.02	.02	.02	.02
6.3800	.02	.02	.02	.02	.02
6.4800	.02	.02	.02	.02	.02

6.5800		.02	.02	.02	.02	.02
6.6800		.02	.02	.02	.02	.02
6.7800		.02	.02	.02	.02	.02
6.8800		.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

Page 14.74

Name.... ROUTE 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs					
	Time on left represents time for first value in each row.					
6.9800	.02	.02	.02	.02	.02	.02
7.0800	.02	.02	.02	.02	.02	.02
7.1800	.02	.02	.02	.02	.02	.02
7.2800	.02	.02	.02	.02	.02	.02
7.3800	.02	.02	.02	.02	.02	.02
7.4800	.02	.02	.02	.02	.02	.02
7.5800	.02	.02	.02	.02	.02	.02
7.6800	.02	.02	.02	.02	.02	.02
7.7800	.02	.02	.02	.02	.02	.02
7.8800	.02	.02	.02	.02	.02	.02
7.9800	.02	.02	.02	.02	.02	.02
8.0800	.02	.02	.02	.02	.02	.02
8.1800	.02	.02	.02	.02	.02	.03
8.2800	.03	.03	.03	.03	.03	.03
8.3800	.03	.03	.03	.03	.03	.03
8.4800	.03	.03	.03	.03	.03	.03
8.5800	.03	.03	.03	.03	.03	.03
8.6800	.03	.03	.03	.03	.03	.03
8.7800	.03	.03	.03	.03	.03	.03
8.8800	.03	.03	.03	.03	.03	.03
8.9800	.03	.03	.03	.03	.03	.03
9.0800	.03	.04	.04	.04	.04	.04
9.1800	.04	.04	.04	.04	.04	.04
9.2800	.04	.04	.04	.04	.04	.04
9.3800	.04	.04	.04	.04	.04	.04
9.4800	.04	.04	.04	.04	.04	.04
9.5800	.04	.04	.04	.04	.04	.04
9.6800	.04	.04	.04	.04	.04	.04
9.7800	.04	.04	.04	.04	.04	.04
9.8800	.04	.04	.04	.04	.04	.04
9.9800	.04	.04	.04	.04	.04	.04
10.0800	.05	.05	.05	.05	.05	.05
10.1800	.05	.05	.05	.05	.05	.05

10.2800	.05	.05	.05	.05	.05
10.3800	.05	.05	.05	.06	.06
10.4800	.06	.06	.06	.06	.06
10.5800	.06	.06	.06	.06	.06
10.6800	.06	.06	.07	.07	.07
10.7800	.07	.07	.07	.07	.07
10.8800	.07	.07	.08	.08	.08
10.9800	.08	.08	.08	.08	.08
11.0800	.08	.09	.09	.09	.09
11.1800	.09	.10	.10	.10	.10
11.2800	.10	.11	.11	.11	.11
11.3800	.12	.12	.12	.12	.12

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
11.4800	.13	.13	.13	.14	.16
11.5800	.18	.20	.23	.25	.30
11.6800	.35	.40	.44	.47	.52
11.7800	.58	.63	.68	.74	.81
11.8800	.88	.96	1.03	1.09	1.13
11.9800	1.15	1.16	1.17	1.16	1.13
12.0800	1.07	1.00	.93	.85	.76
12.1800	.68	.60	.52	.45	.39
12.2800	.33	.28	.25	.23	.21
12.3800	.20	.18	.17	.17	.16
12.4800	.15	.14	.14	.13	.13
12.5800	.12	.12	.12	.11	.11
12.6800	.11	.10	.10	.10	.10
12.7800	.10	.10	.10	.09	.09
12.8800	.09	.09	.09	.09	.09
12.9800	.08	.08	.08	.08	.08
13.0800	.08	.08	.08	.08	.07
13.1800	.07	.07	.07	.07	.07
13.2800	.07	.07	.07	.07	.07
13.3800	.07	.07	.07	.06	.06
13.4800	.06	.06	.06	.06	.06
13.5800	.06	.06	.06	.06	.06
13.6800	.06	.06	.06	.06	.06
13.7800	.05	.05	.05	.05	.05
13.8800	.05	.05	.05	.05	.05

13.9800	.05	.05	.05	.05	.05
14.0800	.05	.05	.05	.05	.05
14.1800	.05	.05	.05	.05	.04
14.2800	.04	.04	.04	.04	.04
14.3800	.04	.04	.04	.04	.04
14.4800	.04	.04	.04	.04	.04
14.5800	.04	.04	.04	.04	.04
14.6800	.04	.04	.04	.04	.04
14.7800	.04	.04	.04	.04	.04
14.8800	.04	.04	.04	.04	.04
14.9800	.04	.04	.04	.04	.04
15.0800	.04	.04	.04	.04	.04
15.1800	.04	.04	.04	.04	.04
15.2800	.04	.04	.04	.04	.04
15.3800	.04	.03	.03	.03	.03
15.4800	.03	.03	.03	.03	.03
15.5800	.03	.03	.03	.03	.03
15.6800	.03	.03	.03	.03	.03
15.7800	.03	.03	.03	.03	.03
15.8800	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

Page 14.76

Name.... ROUTE 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
15.9800	.03	.03	.03	.03	.03
16.0800	.03	.03	.03	.03	.03
16.1800	.03	.03	.03	.03	.03
16.2800	.03	.03	.03	.03	.03
16.3800	.03	.03	.03	.03	.03
16.4800	.03	.03	.03	.03	.03
16.5800	.03	.03	.03	.03	.03
16.6800	.03	.03	.03	.03	.03
16.7800	.03	.03	.03	.03	.03
16.8800	.03	.03	.03	.03	.03
16.9800	.03	.03	.03	.03	.03
17.0800	.03	.03	.03	.03	.03
17.1800	.03	.03	.03	.03	.03
17.2800	.03	.02	.02	.02	.02
17.3800	.02	.02	.02	.02	.02
17.4800	.02	.02	.02	.02	.02
17.5800	.02	.02	.02	.02	.02

17.6800	.02	.02	.02	.02	.02
17.7800	.02	.02	.02	.02	.02
17.8800	.02	.02	.02	.02	.02
17.9800	.02	.02	.02	.02	.02
18.0800	.02	.02	.02	.02	.02
18.1800	.02	.02	.02	.02	.02
18.2800	.02	.02	.02	.02	.02
18.3800	.02	.02	.02	.02	.02
18.4800	.02	.02	.02	.02	.02
18.5800	.02	.02	.02	.02	.02
18.6800	.02	.02	.02	.02	.02
18.7800	.02	.02	.02	.02	.02
18.8800	.02	.02	.02	.02	.02
18.9800	.02	.02	.02	.02	.02
19.0800	.02	.02	.02	.02	.02
19.1800	.02	.02	.02	.02	.02
19.2800	.02	.02	.02	.02	.02
19.3800	.02	.02	.02	.02	.02
19.4800	.02	.02	.02	.02	.02
19.5800	.02	.02	.02	.02	.02
19.6800	.02	.02	.02	.02	.02
19.7800	.02	.02	.02	.02	.02
19.8800	.02	.02	.02	.02	.02
19.9800	.02	.02	.02	.02	.02
20.0800	.02	.02	.02	.02	.02
20.1800	.02	.02	.02	.02	.02
20.2800	.02	.02	.02	.02	.02
20.3800	.02	.02	.02	.02	.02

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 2 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 2

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

---

20.4800	.02	.02	.02	.02	.02
20.5800	.02	.02	.02	.02	.02
20.6800	.02	.02	.02	.02	.02
20.7800	.02	.02	.02	.02	.02
20.8800	.02	.02	.02	.02	.02
20.9800	.02	.02	.02	.02	.02
21.0800	.02	.02	.02	.02	.02
21.1800	.02	.02	.02	.02	.02
21.2800	.02	.02	.02	.02	.02

21.3800	.02	.02	.02	.02	.02
21.4800	.02	.02	.02	.02	.02
21.5800	.02	.02	.02	.02	.02
21.6800	.02	.02	.02	.02	.02
21.7800	.02	.02	.02	.02	.02
21.8800	.02	.02	.02	.02	.02
21.9800	.02	.02	.01	.01	.01
22.0800	.01	.01	.01	.01	.01
22.1800	.01	.01	.01	.01	.01
22.2800	.01	.01	.01	.01	.01
22.3800	.01	.01	.01	.01	.01
22.4800	.01	.01	.01	.01	.01
22.5800	.01	.01	.01	.01	.01
22.6800	.01	.01	.01	.01	.01
22.7800	.01	.01	.01	.01	.01
22.8800	.01	.01	.01	.01	.01
22.9800	.01	.01	.01	.01	.01
23.0800	.01	.01	.01	.01	.01
23.1800	.01	.01	.01	.01	.01
23.2800	.01	.01	.01	.01	.01
23.3800	.01	.01	.01	.01	.01
23.4800	.01	.01	.01	.01	.01
23.5800	.01	.01	.01	.01	.01
23.6800	.01	.01	.01	.01	.01
23.7800	.01	.01	.01	.01	.01
23.8800	.01	.01	.01	.01	.01
23.9800	.01	.01	.01	.01	.01
24.0800	.01	.01	.01	.00	.00
24.1800	.00				

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

Name.... ROUTE 10

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 15

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Event: 15 yr

DIVERTED HYDROGRAPH...

HYG file =

HYG ID = ROUTE 10

HYG Tag = 15

-----  
Peak Discharge = 2.67 cfs

Time to Peak = 11.9200 hrs

HYG Volume = .159 ac-ft  
-----

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs Time on left represents time for first value in each row.					
2.5400	.00	.00	.01	.01	.01	.01
2.6400	.01	.01	.01	.01	.01	.01
2.7400	.01	.01	.01	.01	.01	.01
2.8400	.02	.02	.02	.02	.02	.02
2.9400	.02	.02	.02	.02	.02	.02
3.0400	.02	.02	.02	.02	.02	.02
3.1400	.02	.02	.02	.02	.02	.02
3.2400	.02	.02	.02	.02	.02	.02
3.3400	.02	.02	.02	.02	.02	.02
3.4400	.02	.02	.02	.02	.02	.02
3.5400	.02	.02	.02	.02	.02	.02
3.6400	.02	.02	.02	.02	.02	.02
3.7400	.02	.02	.02	.02	.02	.02
3.8400	.02	.02	.02	.02	.02	.02
3.9400	.02	.02	.02	.02	.02	.02
4.0400	.02	.02	.02	.02	.02	.02
4.1400	.02	.02	.02	.02	.02	.02
4.2400	.02	.02	.02	.02	.02	.02
4.3400	.02	.02	.02	.02	.02	.02
4.4400	.02	.02	.02	.02	.02	.02
4.5400	.02	.02	.02	.02	.02	.02
4.6400	.02	.02	.02	.02	.02	.02
4.7400	.02	.02	.02	.02	.02	.02
4.8400	.03	.03	.03	.03	.03	.03
4.9400	.03	.03	.03	.03	.03	.03
5.0400	.03	.03	.03	.03	.03	.03
5.1400	.03	.03	.03	.03	.03	.03
5.2400	.03	.03	.03	.03	.03	.03
5.3400	.03	.03	.03	.03	.03	.03
5.4400	.03	.03	.03	.03	.03	.03
5.5400	.03	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 15

Time hrs	HYDROGRAPH ORDINATES (cfs) Output Time increment = .0200 hrs Time on left represents time for first value in each row.					
5.6400	.03	.03	.03	.03	.03	.03
5.7400	.03	.03	.03	.03	.03	.03
5.8400	.03	.03	.03	.03	.03	.03

5.9400	.03	.03	.03	.03	.03
6.0400	.03	.03	.03	.03	.03
6.1400	.03	.03	.03	.03	.03
6.2400	.03	.03	.03	.03	.03
6.3400	.03	.03	.03	.03	.03
6.4400	.03	.03	.03	.03	.03
6.5400	.03	.03	.03	.03	.03
6.6400	.03	.03	.03	.03	.03
6.7400	.03	.03	.04	.04	.04
6.8400	.04	.04	.04	.04	.04
6.9400	.04	.04	.04	.04	.04
7.0400	.04	.04	.04	.04	.04
7.1400	.04	.04	.04	.04	.04
7.2400	.04	.04	.04	.04	.04
7.3400	.04	.04	.04	.04	.04
7.4400	.04	.04	.04	.04	.04
7.5400	.04	.04	.04	.04	.04
7.6400	.04	.04	.04	.04	.04
7.7400	.04	.04	.04	.04	.04
7.8400	.04	.04	.04	.04	.04
7.9400	.04	.04	.04	.04	.04
8.0400	.04	.04	.04	.04	.04
8.1400	.04	.04	.04	.04	.04
8.2400	.04	.04	.04	.05	.05
8.3400	.05	.05	.05	.05	.05
8.4400	.05	.05	.05	.05	.05
8.5400	.05	.05	.05	.05	.05
8.6400	.05	.05	.05	.05	.05
8.7400	.05	.05	.05	.06	.06
8.8400	.06	.06	.06	.06	.06
8.9400	.06	.06	.06	.06	.06
9.0400	.06	.06	.06	.06	.06
9.1400	.06	.06	.06	.06	.06
9.2400	.06	.06	.06	.06	.06
9.3400	.06	.06	.06	.06	.06
9.4400	.06	.06	.06	.06	.06
9.5400	.06	.06	.06	.06	.06
9.6400	.06	.06	.06	.06	.07
9.7400	.07	.07	.07	.07	.07
9.8400	.07	.07	.07	.07	.07
9.9400	.07	.07	.07	.07	.07
10.0400	.08	.08	.08	.08	.08

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

Name.... ROUTE 10

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 15

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Event: 15 yr



HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
10.1400	.08	.08	.08	.08	.08
10.2400	.08	.08	.09	.09	.09
10.3400	.09	.09	.09	.09	.09
10.4400	.09	.09	.10	.10	.10
10.5400	.10	.10	.10	.10	.10
10.6400	.10	.11	.11	.11	.11
10.7400	.11	.11	.12	.12	.12
10.8400	.12	.12	.12	.12	.13
10.9400	.13	.13	.13	.13	.13
11.0400	.14	.14	.14	.14	.15
11.1400	.15	.15	.16	.16	.16
11.2400	.17	.17	.17	.18	.18
11.3400	.18	.19	.19	.20	.20
11.4400	.20	.21	.21	.22	.22
11.5400	.24	.26	.30	.34	.37
11.6400	.42	.47	.53	.60	.65
11.7400	.72	.78	.86	.92	.99
11.8400	1.07	1.16	1.26	2.10	2.67
11.9400	2.54	2.38	2.20	2.07	1.95
12.0400	1.71	1.32	1.28	1.24	1.17
12.1400	1.10	1.03	.96	.89	.81
12.2400	.74	.67	.61	.55	.49
12.3400	.45	.41	.37	.33	.31
12.4400	.29	.27	.25	.24	.23
12.5400	.22	.21	.20	.19	.19
12.6400	.18	.18	.17	.17	.17
12.7400	.17	.16	.16	.16	.16
12.8400	.15	.15	.15	.15	.14
12.9400	.14	.14	.14	.14	.13
13.0400	.13	.13	.13	.13	.13
13.1400	.12	.12	.12	.12	.12
13.2400	.12	.12	.11	.11	.11
13.3400	.11	.11	.11	.11	.11
13.4400	.11	.10	.10	.10	.10
13.5400	.10	.10	.10	.10	.10
13.6400	.09	.09	.09	.09	.09
13.7400	.09	.09	.09	.09	.09
13.8400	.09	.09	.08	.08	.08
13.9400	.08	.08	.08	.08	.08
14.0400	.08	.08	.08	.08	.08
14.1400	.08	.07	.07	.07	.07
14.2400	.07	.07	.07	.07	.07
14.3400	.07	.07	.07	.07	.07
14.4400	.07	.07	.07	.07	.07
14.5400	.07	.07	.07	.07	.07

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
14.6400	.07	.07	.07	.07	.07
14.7400	.07	.07	.07	.07	.06
14.8400	.06	.06	.06	.06	.06
14.9400	.06	.06	.06	.06	.06
15.0400	.06	.06	.06	.06	.06
15.1400	.06	.06	.06	.06	.06
15.2400	.06	.06	.06	.06	.06
15.3400	.06	.06	.06	.06	.06
15.4400	.06	.06	.06	.06	.06
15.5400	.05	.05	.05	.05	.05
15.6400	.05	.05	.05	.05	.05
15.7400	.05	.05	.05	.05	.05
15.8400	.05	.05	.05	.05	.05
15.9400	.05	.05	.05	.05	.05
16.0400	.05	.05	.05	.05	.05
16.1400	.05	.05	.05	.05	.05
16.2400	.05	.05	.05	.05	.05
16.3400	.05	.05	.05	.05	.05
16.4400	.04	.04	.04	.04	.04
16.5400	.04	.04	.04	.04	.04
16.6400	.04	.04	.04	.04	.04
16.7400	.04	.04	.04	.04	.04
16.8400	.04	.04	.04	.04	.04
16.9400	.04	.04	.04	.04	.04
17.0400	.04	.04	.04	.04	.04
17.1400	.04	.04	.04	.04	.04
17.2400	.04	.04	.04	.04	.04
17.3400	.04	.04	.04	.04	.04
17.4400	.04	.04	.04	.04	.04
17.5400	.04	.04	.04	.04	.04
17.6400	.04	.04	.04	.04	.04
17.7400	.04	.04	.04	.04	.04
17.8400	.04	.04	.04	.04	.04
17.9400	.04	.04	.04	.04	.04
18.0400	.04	.04	.04	.04	.04
18.1400	.04	.04	.04	.04	.04
18.2400	.04	.04	.04	.04	.04

18.3400	.04	.04	.04	.04	.03
18.4400	.03	.03	.03	.03	.03
18.5400	.03	.03	.03	.03	.03
18.6400	.03	.03	.03	.03	.03
18.7400	.03	.03	.03	.03	.03
18.8400	.03	.03	.03	.03	.03
18.9400	.03	.03	.03	.03	.03
19.0400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 15 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 15

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
19.1400	.03	.03	.03	.03	.03
19.2400	.03	.03	.03	.03	.03
19.3400	.03	.03	.03	.03	.03
19.4400	.03	.03	.03	.03	.03
19.5400	.03	.03	.03	.03	.03
19.6400	.03	.03	.03	.03	.03
19.7400	.03	.03	.03	.03	.03
19.8400	.03	.03	.03	.03	.03
19.9400	.03	.03	.03	.03	.03
20.0400	.03	.03	.03	.03	.03
20.1400	.03	.03	.03	.03	.03
20.2400	.03	.03	.03	.03	.03
20.3400	.03	.03	.03	.03	.03
20.4400	.03	.03	.03	.03	.03
20.5400	.03	.03	.03	.03	.03
20.6400	.03	.03	.03	.03	.03
20.7400	.03	.03	.03	.03	.03
20.8400	.03	.03	.03	.03	.03
20.9400	.03	.03	.03	.03	.03
21.0400	.03	.03	.03	.03	.03
21.1400	.03	.03	.03	.03	.03
21.2400	.03	.03	.03	.03	.03
21.3400	.03	.03	.03	.03	.03
21.4400	.02	.02	.02	.02	.02
21.5400	.02	.02	.02	.02	.02
21.6400	.02	.02	.02	.02	.02
21.7400	.02	.02	.02	.02	.02
21.8400	.02	.02	.02	.02	.02
21.9400	.02	.02	.02	.02	.02



Peak Discharge = 2.90 cfs  
 Time to Peak = 11.9000 hrs  
 HYG Volume = .178 ac-ft

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

---

Time hrs					
2.3200	.00	.00	.01	.01	.01
2.4200	.01	.01	.01	.02	.02
2.5200	.02	.02	.02	.02	.02
2.6200	.02	.02	.02	.02	.02
2.7200	.02	.02	.02	.02	.02
2.8200	.02	.02	.02	.02	.02
2.9200	.02	.02	.02	.02	.02
3.0200	.02	.02	.02	.02	.02
3.1200	.02	.02	.02	.02	.02
3.2200	.02	.02	.02	.02	.02
3.3200	.02	.02	.02	.02	.02
3.4200	.02	.02	.02	.02	.02
3.5200	.02	.02	.02	.02	.02
3.6200	.02	.02	.02	.02	.02
3.7200	.02	.02	.02	.02	.02
3.8200	.02	.02	.02	.02	.02
3.9200	.02	.02	.02	.02	.02
4.0200	.02	.02	.02	.02	.02
4.1200	.02	.02	.02	.02	.03
4.2200	.03	.03	.03	.03	.03
4.3200	.03	.03	.03	.03	.03
4.4200	.03	.03	.03	.03	.03
4.5200	.03	.03	.03	.03	.03
4.6200	.03	.03	.03	.03	.03
4.7200	.03	.03	.03	.03	.03
4.8200	.03	.03	.03	.03	.03
4.9200	.03	.03	.03	.03	.03
5.0200	.03	.03	.03	.03	.03
5.1200	.03	.03	.03	.03	.03
5.2200	.03	.03	.03	.03	.03
5.3200	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

Name.... ROUTE 10

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 25

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Event: 25 yr

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
5.4200	.03	.03	.03	.03	.03
5.5200	.03	.03	.03	.03	.03
5.6200	.03	.03	.03	.03	.03
5.7200	.03	.03	.03	.03	.03
5.8200	.03	.03	.03	.03	.03
5.9200	.04	.04	.04	.04	.04
6.0200	.04	.04	.04	.04	.04
6.1200	.04	.04	.04	.04	.04
6.2200	.04	.04	.04	.04	.04
6.3200	.04	.04	.04	.04	.04
6.4200	.04	.04	.04	.04	.04
6.5200	.04	.04	.04	.04	.04
6.6200	.04	.04	.04	.04	.04
6.7200	.04	.04	.04	.04	.04
6.8200	.04	.04	.04	.04	.04
6.9200	.04	.04	.04	.04	.04
7.0200	.04	.04	.04	.04	.04
7.1200	.04	.04	.04	.04	.04
7.2200	.04	.04	.04	.04	.04
7.3200	.04	.04	.04	.04	.04
7.4200	.04	.04	.04	.04	.04
7.5200	.04	.04	.04	.04	.04
7.6200	.04	.04	.04	.04	.04
7.7200	.04	.04	.04	.04	.05
7.8200	.05	.05	.05	.05	.05
7.9200	.05	.05	.05	.05	.05
8.0200	.05	.05	.05	.05	.05
8.1200	.05	.05	.05	.05	.05
8.2200	.05	.05	.05	.05	.05
8.3200	.05	.05	.05	.05	.05
8.4200	.05	.05	.05	.05	.06
8.5200	.06	.06	.06	.06	.06
8.6200	.06	.06	.06	.06	.06
8.7200	.06	.06	.06	.06	.06
8.8200	.06	.06	.06	.06	.06
8.9200	.06	.07	.07	.07	.07
9.0200	.07	.07	.07	.07	.07
9.1200	.07	.07	.07	.07	.07
9.2200	.07	.07	.07	.07	.07
9.3200	.07	.07	.07	.07	.07
9.4200	.07	.07	.07	.07	.07
9.5200	.07	.07	.07	.07	.07
9.6200	.07	.07	.07	.07	.07
9.7200	.07	.07	.07	.08	.08
9.8200	.08	.08	.08	.08	.08

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
9.9200	.08	.08	.08	.08	.08
10.0200	.08	.08	.09	.09	.09
10.1200	.09	.09	.09	.09	.09
10.2200	.09	.09	.10	.10	.10
10.3200	.10	.10	.10	.10	.10
10.4200	.10	.10	.11	.11	.11
10.5200	.11	.11	.11	.11	.11
10.6200	.12	.12	.12	.12	.12
10.7200	.12	.13	.13	.13	.13
10.8200	.13	.13	.14	.14	.14
10.9200	.14	.14	.14	.15	.15
11.0200	.15	.15	.15	.16	.16
11.1200	.16	.17	.17	.17	.18
11.2200	.18	.19	.19	.19	.20
11.3200	.20	.21	.21	.22	.22
11.4200	.22	.23	.23	.24	.24
11.5200	.25	.26	.29	.33	.37
11.6200	.42	.46	.51	.59	.65
11.7200	.71	.78	.85	.93	1.00
11.8200	1.07	1.16	1.25	2.03	2.90
11.9200	2.88	2.84	2.65	2.45	2.31
12.0200	2.17	1.90	1.47	1.29	1.25
12.1200	1.19	1.13	1.06	.99	.92
12.2200	.86	.79	.72	.66	.60
12.3200	.55	.50	.46	.42	.38
12.4200	.35	.33	.30	.29	.27
12.5200	.26	.25	.24	.23	.22
12.6200	.21	.20	.20	.19	.19
12.7200	.19	.18	.18	.18	.18
12.8200	.17	.17	.17	.17	.16
12.9200	.16	.16	.16	.15	.15
13.0200	.15	.15	.15	.14	.14
13.1200	.14	.14	.14	.13	.13
13.2200	.13	.13	.13	.13	.13
13.3200	.13	.12	.12	.12	.12
13.4200	.12	.12	.12	.11	.11
13.5200	.11	.11	.11	.11	.11
13.6200	.11	.11	.10	.10	.10
13.7200	.10	.10	.10	.10	.10

13.8200	.10	.10	.10	.09	.09
13.9200	.09	.09	.09	.09	.09
14.0200	.09	.09	.09	.09	.09
14.1200	.08	.08	.08	.08	.08
14.2200	.08	.08	.08	.08	.08
14.3200	.08	.08	.08	.08	.08

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
14.4200	.08	.08	.08	.08	.08
14.5200	.08	.08	.08	.08	.08
14.6200	.08	.08	.07	.07	.07
14.7200	.07	.07	.07	.07	.07
14.8200	.07	.07	.07	.07	.07
14.9200	.07	.07	.07	.07	.07
15.0200	.07	.07	.07	.07	.07
15.1200	.07	.07	.07	.07	.07
15.2200	.07	.07	.07	.07	.06
15.3200	.06	.06	.06	.06	.06
15.4200	.06	.06	.06	.06	.06
15.5200	.06	.06	.06	.06	.06
15.6200	.06	.06	.06	.06	.06
15.7200	.06	.06	.06	.06	.06
15.8200	.06	.06	.06	.06	.06
15.9200	.06	.05	.05	.05	.05
16.0200	.05	.05	.05	.05	.05
16.1200	.05	.05	.05	.05	.05
16.2200	.05	.05	.05	.05	.05
16.3200	.05	.05	.05	.05	.05
16.4200	.05	.05	.05	.05	.05
16.5200	.05	.05	.05	.05	.05
16.6200	.05	.05	.05	.05	.05
16.7200	.05	.05	.05	.05	.05
16.8200	.05	.05	.05	.05	.05
16.9200	.05	.05	.05	.05	.05
17.0200	.05	.05	.05	.05	.05
17.1200	.05	.05	.05	.05	.05
17.2200	.05	.05	.05	.05	.05
17.3200	.05	.05	.04	.04	.04
17.4200	.04	.04	.04	.04	.04



17.5200	.04	.04	.04	.04	.04
17.6200	.04	.04	.04	.04	.04
17.7200	.04	.04	.04	.04	.04
17.8200	.04	.04	.04	.04	.04
17.9200	.04	.04	.04	.04	.04
18.0200	.04	.04	.04	.04	.04
18.1200	.04	.04	.04	.04	.04
18.2200	.04	.04	.04	.04	.04
18.3200	.04	.04	.04	.04	.04
18.4200	.04	.04	.04	.04	.04
18.5200	.04	.04	.04	.04	.04
18.6200	.04	.04	.04	.04	.04
18.7200	.04	.04	.04	.04	.04
18.8200	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
18.9200	.04	.04	.04	.04	.04
19.0200	.04	.04	.04	.04	.04
19.1200	.03	.03	.03	.03	.03
19.2200	.03	.03	.03	.03	.03
19.3200	.03	.03	.03	.03	.03
19.4200	.03	.03	.03	.03	.03
19.5200	.03	.03	.03	.03	.03
19.6200	.03	.03	.03	.03	.03
19.7200	.03	.03	.03	.03	.03
19.8200	.03	.03	.03	.03	.03
19.9200	.03	.03	.03	.03	.03
20.0200	.03	.03	.03	.03	.03
20.1200	.03	.03	.03	.03	.03
20.2200	.03	.03	.03	.03	.03
20.3200	.03	.03	.03	.03	.03
20.4200	.03	.03	.03	.03	.03
20.5200	.03	.03	.03	.03	.03
20.6200	.03	.03	.03	.03	.03
20.7200	.03	.03	.03	.03	.03
20.8200	.03	.03	.03	.03	.03
20.9200	.03	.03	.03	.03	.03
21.0200	.03	.03	.03	.03	.03
21.1200	.03	.03	.03	.03	.03

21.2200	.03	.03	.03	.03	.03
21.3200	.03	.03	.03	.03	.03
21.4200	.03	.03	.03	.03	.03
21.5200	.03	.03	.03	.03	.03
21.6200	.03	.03	.03	.03	.03
21.7200	.03	.03	.03	.03	.03
21.8200	.03	.03	.03	.03	.03
21.9200	.03	.03	.03	.03	.03
22.0200	.03	.03	.03	.03	.03
22.1200	.03	.03	.03	.03	.03
22.2200	.03	.03	.03	.03	.03
22.3200	.03	.03	.03	.03	.03
22.4200	.03	.03	.03	.03	.03
22.5200	.03	.03	.03	.03	.03
22.6200	.03	.03	.03	.03	.03
22.7200	.03	.03	.03	.03	.03
22.8200	.03	.03	.03	.03	.03
22.9200	.03	.03	.03	.03	.03
23.0200	.03	.03	.03	.03	.03
23.1200	.03	.03	.03	.03	.03
23.2200	.03	.03	.03	.03	.03
23.3200	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 25 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 25

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
23.4200	.03	.03	.03	.03	.03
23.5200	.03	.03	.03	.03	.03
23.6200	.03	.03	.03	.03	.03
23.7200	.03	.03	.03	.03	.03
23.8200	.03	.03	.03	.03	.03
23.9200	.03	.03	.03	.02	.02
24.0200	.02	.02	.02	.02	.01
24.1200	.01	.01	.01	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 50

DIVERTED HYDROGRAPH...

HYG file =  
HYG ID = ROUTE 10  
HYG Tag = 50

-----  
Peak Discharge = 3.31 cfs  
Time to Peak = 11.9200 hrs  
HYG Volume = .204 ac-ft  
-----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
2.0600	.00	.00	.01	.01	.01
2.1600	.01	.02	.02	.02	.02
2.2600	.02	.02	.02	.02	.02
2.3600	.02	.02	.02	.02	.02
2.4600	.02	.02	.02	.02	.02
2.5600	.02	.02	.02	.02	.02
2.6600	.02	.02	.02	.02	.02
2.7600	.02	.02	.02	.02	.02
2.8600	.02	.02	.02	.02	.02
2.9600	.02	.02	.02	.02	.02
3.0600	.02	.02	.02	.02	.02
3.1600	.02	.02	.02	.02	.02
3.2600	.02	.02	.03	.03	.03
3.3600	.03	.03	.03	.03	.03
3.4600	.03	.03	.03	.03	.03
3.5600	.03	.03	.03	.03	.03
3.6600	.03	.03	.03	.03	.03
3.7600	.03	.03	.03	.03	.03
3.8600	.03	.03	.03	.03	.03
3.9600	.03	.03	.03	.03	.03
4.0600	.03	.03	.03	.03	.03
4.1600	.03	.03	.03	.03	.03
4.2600	.03	.03	.03	.03	.03
4.3600	.03	.03	.03	.03	.03
4.4600	.03	.03	.03	.03	.03
4.5600	.03	.03	.03	.03	.03
4.6600	.03	.03	.03	.03	.03
4.7600	.03	.03	.03	.03	.03
4.8600	.03	.03	.03	.03	.03
4.9600	.03	.03	.04	.04	.04
5.0600	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs	HYDROGRAPH ORDINATES (cfs)				
	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
5.1600	.04	.04	.04	.04	.04
5.2600	.04	.04	.04	.04	.04
5.3600	.04	.04	.04	.04	.04
5.4600	.04	.04	.04	.04	.04
5.5600	.04	.04	.04	.04	.04
5.6600	.04	.04	.04	.04	.04
5.7600	.04	.04	.04	.04	.04
5.8600	.04	.04	.04	.04	.04
5.9600	.04	.04	.04	.04	.04
6.0600	.04	.04	.04	.04	.04
6.1600	.04	.04	.04	.04	.04
6.2600	.04	.04	.04	.04	.04
6.3600	.04	.04	.04	.04	.04
6.4600	.04	.04	.04	.04	.04
6.5600	.04	.04	.04	.05	.05
6.6600	.05	.05	.05	.05	.05
6.7600	.05	.05	.05	.05	.05
6.8600	.05	.05	.05	.05	.05
6.9600	.05	.05	.05	.05	.05
7.0600	.05	.05	.05	.05	.05
7.1600	.05	.05	.05	.05	.05
7.2600	.05	.05	.05	.05	.05
7.3600	.05	.05	.05	.05	.05
7.4600	.05	.05	.05	.05	.05
7.5600	.05	.05	.05	.05	.05
7.6600	.05	.05	.05	.05	.05
7.7600	.05	.05	.05	.05	.05
7.8600	.05	.05	.05	.05	.05
7.9600	.05	.05	.05	.05	.05
8.0600	.05	.05	.05	.05	.05
8.1600	.06	.06	.06	.06	.06
8.2600	.06	.06	.06	.06	.06
8.3600	.06	.06	.06	.06	.06
8.4600	.06	.06	.06	.06	.06
8.5600	.07	.07	.07	.07	.07
8.6600	.07	.07	.07	.07	.07
8.7600	.07	.07	.07	.07	.07
8.8600	.07	.07	.07	.07	.07
8.9600	.08	.08	.08	.08	.08

9.0600	.08	.08	.08	.08	.08
9.1600	.08	.08	.08	.08	.08
9.2600	.08	.08	.08	.08	.08
9.3600	.08	.08	.08	.08	.08
9.4600	.08	.08	.08	.08	.08
9.5600	.08	.08	.08	.08	.08

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
9.6600	.08	.08	.08	.08	.08
9.7600	.09	.09	.09	.09	.09
9.8600	.09	.09	.09	.09	.09
9.9600	.09	.09	.10	.10	.10
10.0600	.10	.10	.10	.10	.10
10.1600	.10	.10	.11	.11	.11
10.2600	.11	.11	.11	.11	.11
10.3600	.12	.12	.12	.12	.12
10.4600	.12	.12	.12	.12	.13
10.5600	.13	.13	.13	.13	.13
10.6600	.14	.14	.14	.14	.14
10.7600	.15	.15	.15	.15	.15
10.8600	.16	.16	.16	.16	.16
10.9600	.17	.17	.17	.17	.17
11.0600	.18	.18	.18	.19	.19
11.1600	.19	.20	.20	.21	.21
11.2600	.22	.22	.23	.23	.24
11.3600	.24	.25	.25	.26	.26
11.4600	.27	.27	.28	.28	.30
11.5600	.33	.38	.42	.46	.51
11.6600	.58	.65	.72	.79	.86
11.7600	.93	1.02	1.10	1.18	1.27
11.8600	2.18	3.01	3.19	3.31	3.24
11.9600	3.02	2.79	2.63	2.48	2.17
12.0600	1.67	1.30	1.27	1.22	1.16
12.1600	1.10	1.04	.97	.91	.85
12.2600	.78	.73	.67	.62	.57
12.3600	.52	.48	.45	.42	.39
12.4600	.36	.33	.31	.30	.28
12.5600	.27	.26	.25	.24	.23
12.6600	.23	.22	.22	.21	.21

12.7600	.21	.20	.20	.20	.19
12.8600	.19	.19	.19	.18	.18
12.9600	.18	.18	.17	.17	.17
13.0600	.17	.16	.16	.16	.16
13.1600	.16	.15	.15	.15	.15
13.2600	.15	.15	.14	.14	.14
13.3600	.14	.14	.14	.14	.13
13.4600	.13	.13	.13	.13	.13
13.5600	.13	.12	.12	.12	.12
13.6600	.12	.12	.12	.12	.11
13.7600	.11	.11	.11	.11	.11
13.8600	.11	.11	.11	.11	.10
13.9600	.10	.10	.10	.10	.10
14.0600	.10	.10	.10	.10	.10

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
14.1600	.10	.09	.09	.09	.09
14.2600	.09	.09	.09	.09	.09
14.3600	.09	.09	.09	.09	.09
14.4600	.09	.09	.09	.09	.09
14.5600	.09	.09	.09	.09	.09
14.6600	.09	.09	.08	.08	.08
14.7600	.08	.08	.08	.08	.08
14.8600	.08	.08	.08	.08	.08
14.9600	.08	.08	.08	.08	.08
15.0600	.08	.08	.08	.08	.08
15.1600	.08	.08	.08	.08	.07
15.2600	.07	.07	.07	.07	.07
15.3600	.07	.07	.07	.07	.07
15.4600	.07	.07	.07	.07	.07
15.5600	.07	.07	.07	.07	.07
15.6600	.07	.07	.07	.07	.07
15.7600	.07	.07	.06	.06	.06
15.8600	.06	.06	.06	.06	.06
15.9600	.06	.06	.06	.06	.06
16.0600	.06	.06	.06	.06	.06
16.1600	.06	.06	.06	.06	.06
16.2600	.06	.06	.06	.06	.06
16.3600	.06	.06	.06	.06	.06

16.4600	.06	.06	.06	.06	.06
16.5600	.06	.06	.06	.06	.06
16.6600	.06	.06	.06	.06	.06
16.7600	.06	.05	.05	.05	.05
16.8600	.05	.05	.05	.05	.05
16.9600	.05	.05	.05	.05	.05
17.0600	.05	.05	.05	.05	.05
17.1600	.05	.05	.05	.05	.05
17.2600	.05	.05	.05	.05	.05
17.3600	.05	.05	.05	.05	.05
17.4600	.05	.05	.05	.05	.05
17.5600	.05	.05	.05	.05	.05
17.6600	.05	.05	.05	.05	.05
17.7600	.05	.05	.05	.05	.05
17.8600	.05	.05	.05	.05	.05
17.9600	.05	.05	.05	.05	.05
18.0600	.05	.05	.05	.05	.05
18.1600	.05	.05	.05	.05	.05
18.2600	.05	.05	.05	.05	.04
18.3600	.04	.04	.04	.04	.04
18.4600	.04	.04	.04	.04	.04
18.5600	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)  
Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
18.6600	.04	.04	.04	.04	.04
18.7600	.04	.04	.04	.04	.04
18.8600	.04	.04	.04	.04	.04
18.9600	.04	.04	.04	.04	.04
19.0600	.04	.04	.04	.04	.04
19.1600	.04	.04	.04	.04	.04
19.2600	.04	.04	.04	.04	.04
19.3600	.04	.04	.04	.04	.04
19.4600	.04	.04	.04	.04	.04
19.5600	.04	.04	.04	.04	.04
19.6600	.04	.04	.04	.04	.04
19.7600	.04	.04	.04	.04	.04
19.8600	.04	.03	.03	.03	.03
19.9600	.03	.03	.03	.03	.03
20.0600	.03	.03	.03	.03	.03

20.1600	.03	.03	.03	.03	.03
20.2600	.03	.03	.03	.03	.03
20.3600	.03	.03	.03	.03	.03
20.4600	.03	.03	.03	.03	.03
20.5600	.03	.03	.03	.03	.03
20.6600	.03	.03	.03	.03	.03
20.7600	.03	.03	.03	.03	.03
20.8600	.03	.03	.03	.03	.03
20.9600	.03	.03	.03	.03	.03
21.0600	.03	.03	.03	.03	.03
21.1600	.03	.03	.03	.03	.03
21.2600	.03	.03	.03	.03	.03
21.3600	.03	.03	.03	.03	.03
21.4600	.03	.03	.03	.03	.03
21.5600	.03	.03	.03	.03	.03
21.6600	.03	.03	.03	.03	.03
21.7600	.03	.03	.03	.03	.03
21.8600	.03	.03	.03	.03	.03
21.9600	.03	.03	.03	.03	.03
22.0600	.03	.03	.03	.03	.03
22.1600	.03	.03	.03	.03	.03
22.2600	.03	.03	.03	.03	.03
22.3600	.03	.03	.03	.03	.03
22.4600	.03	.03	.03	.03	.03
22.5600	.03	.03	.03	.03	.03
22.6600	.03	.03	.03	.03	.03
22.7600	.03	.03	.03	.03	.03
22.8600	.03	.03	.03	.03	.03
22.9600	.03	.03	.03	.03	.03
23.0600	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 50 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 50

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
23.1600	.03	.03	.03	.03	.03
23.2600	.03	.03	.03	.03	.03
23.3600	.03	.03	.03	.03	.03
23.4600	.03	.03	.03	.03	.03
23.5600	.03	.03	.03	.03	.03
23.6600	.03	.03	.03	.03	.03
23.7600	.03	.03	.03	.03	.03



23.8600		.03	.03	.03	.03	.03
23.9600		.03	.03	.03	.03	.03
24.0600		.02	.02	.02	.01	.01
24.1600		.01	.00	.00	.00	

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

Page 14.96

Name.... ROUTE 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 100

DIVERTED HYDROGRAPH...

HYG file =

HYG ID = ROUTE 10

HYG Tag = 100

-----  
Peak Discharge = 3.74 cfs

Time to Peak = 11.9200 hrs

HYG Volume = .231 ac-ft  
-----

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time hrs | Time on left represents time for first value in each row.

1.8400		.00	.00	.01	.01	.01
1.9400		.02	.02	.02	.02	.02
2.0400		.02	.02	.02	.02	.02
2.1400		.02	.02	.02	.02	.02
2.2400		.02	.02	.02	.02	.02
2.3400		.02	.02	.02	.02	.02
2.4400		.02	.02	.02	.02	.02
2.5400		.02	.02	.02	.02	.03
2.6400		.03	.03	.03	.03	.03
2.7400		.03	.03	.03	.03	.03
2.8400		.03	.03	.03	.03	.03
2.9400		.03	.03	.03	.03	.03
3.0400		.03	.03	.03	.03	.03
3.1400		.03	.03	.03	.03	.03
3.2400		.03	.03	.03	.03	.03
3.3400		.03	.03	.03	.03	.03
3.4400		.03	.03	.03	.03	.03
3.5400		.03	.03	.03	.03	.03
3.6400		.03	.03	.03	.03	.03
3.7400		.03	.03	.03	.03	.03
3.8400		.03	.03	.03	.03	.03
3.9400		.03	.03	.03	.03	.03

4.0400	.03	.03	.03	.03	.03
4.1400	.03	.03	.03	.03	.03
4.2400	.04	.04	.04	.04	.04
4.3400	.04	.04	.04	.04	.04
4.4400	.04	.04	.04	.04	.04
4.5400	.04	.04	.04	.04	.04
4.6400	.04	.04	.04	.04	.04
4.7400	.04	.04	.04	.04	.04
4.8400	.04	.04	.04	.04	.04

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
4.9400	.04	.04	.04	.04	.04
5.0400	.04	.04	.04	.04	.04
5.1400	.04	.04	.04	.04	.04
5.2400	.04	.04	.04	.04	.04
5.3400	.04	.04	.04	.04	.04
5.4400	.04	.04	.04	.04	.04
5.5400	.04	.04	.04	.04	.04
5.6400	.05	.05	.05	.05	.05
5.7400	.05	.05	.05	.05	.05
5.8400	.05	.05	.05	.05	.05
5.9400	.05	.05	.05	.05	.05
6.0400	.05	.05	.05	.05	.05
6.1400	.05	.05	.05	.05	.05
6.2400	.05	.05	.05	.05	.05
6.3400	.05	.05	.05	.05	.05
6.4400	.05	.05	.05	.05	.05
6.5400	.05	.05	.05	.05	.05
6.6400	.05	.05	.05	.05	.05
6.7400	.05	.05	.05	.05	.05
6.8400	.05	.05	.05	.05	.05
6.9400	.05	.05	.05	.05	.05
7.0400	.05	.05	.05	.05	.05
7.1400	.06	.06	.06	.06	.06
7.2400	.06	.06	.06	.06	.06
7.3400	.06	.06	.06	.06	.06
7.4400	.06	.06	.06	.06	.06
7.5400	.06	.06	.06	.06	.06
7.6400	.06	.06	.06	.06	.06

7.7400	.06	.06	.06	.06	.06
7.8400	.06	.06	.06	.06	.06
7.9400	.06	.06	.06	.06	.06
8.0400	.06	.06	.06	.06	.06
8.1400	.06	.06	.06	.06	.06
8.2400	.06	.07	.07	.07	.07
8.3400	.07	.07	.07	.07	.07
8.4400	.07	.07	.07	.07	.07
8.5400	.07	.07	.07	.08	.08
8.6400	.08	.08	.08	.08	.08
8.7400	.08	.08	.08	.08	.08
8.8400	.08	.08	.08	.08	.08
8.9400	.09	.09	.09	.09	.09
9.0400	.09	.09	.09	.09	.09
9.1400	.09	.09	.09	.09	.09
9.2400	.09	.09	.09	.09	.09
9.3400	.09	.09	.09	.09	.09

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
9.4400	.09	.09	.09	.09	.09
9.5400	.09	.09	.09	.09	.09
9.6400	.09	.09	.09	.09	.10
9.7400	.10	.10	.10	.10	.10
9.8400	.10	.10	.10	.10	.10
9.9400	.11	.11	.11	.11	.11
10.0400	.11	.11	.11	.11	.11
10.1400	.12	.12	.12	.12	.12
10.2400	.12	.12	.13	.13	.13
10.3400	.13	.13	.13	.13	.13
10.4400	.14	.14	.14	.14	.14
10.5400	.14	.14	.15	.15	.15
10.6400	.15	.15	.16	.16	.16
10.7400	.16	.16	.17	.17	.17
10.8400	.17	.18	.18	.18	.18
10.9400	.19	.19	.19	.19	.20
11.0400	.20	.20	.20	.21	.21
11.1400	.22	.22	.23	.23	.24
11.2400	.24	.25	.25	.26	.26
11.3400	.27	.27	.28	.28	.29

11.4400	.29	.30	.31	.31	.32
11.5400	.34	.38	.42	.47	.51
11.6400	.57	.63	.72	.79	.86
11.7400	.94	1.02	1.11	1.20	1.29
11.8400	2.31	2.93	3.33	3.62	3.74
11.9400	3.66	3.42	3.16	2.98	2.80
12.0400	2.45	1.89	1.35	1.29	1.25
12.1400	1.20	1.14	1.08	1.02	.96
12.2400	.90	.85	.79	.74	.68
12.3400	.64	.59	.55	.51	.48
12.4400	.45	.42	.39	.36	.34
12.5400	.32	.31	.29	.28	.27
12.6400	.26	.26	.25	.25	.24
12.7400	.24	.23	.23	.23	.22
12.8400	.22	.22	.21	.21	.21
12.9400	.20	.20	.20	.20	.19
13.0400	.19	.19	.18	.18	.18
13.1400	.18	.18	.17	.17	.17
13.2400	.17	.17	.16	.16	.16
13.3400	.16	.16	.16	.15	.15
13.4400	.15	.15	.15	.15	.14
13.5400	.14	.14	.14	.14	.14
13.6400	.14	.13	.13	.13	.13
13.7400	.13	.13	.13	.13	.13
13.8400	.12	.12	.12	.12	.12

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs

Time on left represents time for first value in each row.

Time hrs					
13.9400	.12	.12	.12	.11	.11
14.0400	.11	.11	.11	.11	.11
14.1400	.11	.11	.11	.11	.11
14.2400	.11	.10	.10	.10	.10
14.3400	.10	.10	.10	.10	.10
14.4400	.10	.10	.10	.10	.10
14.5400	.10	.10	.10	.10	.10
14.6400	.10	.10	.10	.10	.10
14.7400	.09	.09	.09	.09	.09
14.8400	.09	.09	.09	.09	.09
14.9400	.09	.09	.09	.09	.09
15.0400	.09	.09	.09	.09	.09

15.1400	.09	.09	.09	.09	.09
15.2400	.08	.08	.08	.08	.08
15.3400	.08	.08	.08	.08	.08
15.4400	.08	.08	.08	.08	.08
15.5400	.08	.08	.08	.08	.08
15.6400	.08	.08	.08	.08	.08
15.7400	.07	.07	.07	.07	.07
15.8400	.07	.07	.07	.07	.07
15.9400	.07	.07	.07	.07	.07
16.0400	.07	.07	.07	.07	.07
16.1400	.07	.07	.07	.07	.07
16.2400	.07	.07	.07	.07	.07
16.3400	.07	.07	.06	.06	.06
16.4400	.06	.06	.06	.06	.06
16.5400	.06	.06	.06	.06	.06
16.6400	.06	.06	.06	.06	.06
16.7400	.06	.06	.06	.06	.06
16.8400	.06	.06	.06	.06	.06
16.9400	.06	.06	.06	.06	.06
17.0400	.06	.06	.06	.06	.06
17.1400	.06	.06	.06	.06	.06
17.2400	.06	.06	.06	.06	.06
17.3400	.06	.06	.06	.06	.06
17.4400	.06	.06	.06	.06	.06
17.5400	.06	.06	.06	.06	.06
17.6400	.06	.06	.06	.06	.06
17.7400	.06	.05	.05	.05	.05
17.8400	.05	.05	.05	.05	.05
17.9400	.05	.05	.05	.05	.05
18.0400	.05	.05	.05	.05	.05
18.1400	.05	.05	.05	.05	.05
18.2400	.05	.05	.05	.05	.05
18.3400	.05	.05	.05	.05	.05

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

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Name.... ROUTE 10

Event: 100 yr

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 100

HYDROGRAPH ORDINATES (cfs)

Time hrs	Output Time increment = .0200 hrs				
	Time on left represents time for first value in each row.				
18.4400	.05	.05	.05	.05	.05
18.5400	.05	.05	.05	.05	.05
18.6400	.05	.05	.05	.05	.05
18.7400	.05	.05	.05	.05	.05

18.8400	.05	.05	.05	.05	.05
18.9400	.05	.05	.05	.05	.05
19.0400	.05	.05	.05	.05	.05
19.1400	.04	.04	.04	.04	.04
19.2400	.04	.04	.04	.04	.04
19.3400	.04	.04	.04	.04	.04
19.4400	.04	.04	.04	.04	.04
19.5400	.04	.04	.04	.04	.04
19.6400	.04	.04	.04	.04	.04
19.7400	.04	.04	.04	.04	.04
19.8400	.04	.04	.04	.04	.04
19.9400	.04	.04	.04	.04	.04
20.0400	.04	.04	.04	.04	.04
20.1400	.04	.04	.04	.04	.04
20.2400	.04	.04	.04	.04	.04
20.3400	.04	.04	.04	.04	.04
20.4400	.04	.04	.04	.04	.04
20.5400	.04	.04	.04	.04	.04
20.6400	.04	.04	.04	.04	.04
20.7400	.04	.04	.04	.04	.04
20.8400	.04	.04	.04	.04	.04
20.9400	.04	.04	.04	.04	.04
21.0400	.04	.04	.04	.04	.04
21.1400	.04	.04	.04	.04	.04
21.2400	.04	.04	.04	.04	.04
21.3400	.04	.04	.04	.04	.04
21.4400	.04	.04	.04	.04	.04
21.5400	.04	.04	.04	.04	.04
21.6400	.04	.04	.04	.04	.04
21.7400	.04	.04	.04	.04	.04
21.8400	.04	.04	.04	.04	.04
21.9400	.04	.04	.04	.04	.03
22.0400	.03	.03	.03	.03	.03
22.1400	.03	.03	.03	.03	.03
22.2400	.03	.03	.03	.03	.03
22.3400	.03	.03	.03	.03	.03
22.4400	.03	.03	.03	.03	.03
22.5400	.03	.03	.03	.03	.03
22.6400	.03	.03	.03	.03	.03
22.7400	.03	.03	.03	.03	.03
22.8400	.03	.03	.03	.03	.03

S/N:

PondPack Ver:

Compute Time:

Date:



Type.... Diverted Hydrograph

Name.... ROUTE 10

File.... R:\JOB NUMBERS\1982\82129.FRIN.02\Hydraulics\

Storm... TypeII 24hr Tag: 100

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Event: 100 yr

HYDROGRAPH ORDINATES (cfs)

Output Time increment = .0200 hrs  
Time on left represents time for first value in each row.

Time hrs					
22.9400	.03	.03	.03	.03	.03
23.0400	.03	.03	.03	.03	.03
23.1400	.03	.03	.03	.03	.03
23.2400	.03	.03	.03	.03	.03
23.3400	.03	.03	.03	.03	.03
23.4400	.03	.03	.03	.03	.03
23.5400	.03	.03	.03	.03	.03
23.6400	.03	.03	.03	.03	.03
23.7400	.03	.03	.03	.03	.03
23.8400	.03	.03	.03	.03	.03
23.9400	.03	.03	.03	.03	.03
24.0400	.03	.03	.02	.02	.01
24.1400	.01	.01	.01	.00	.00

S/N:

PondPack Ver:

Compute Time:

Date:



Appendix A

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Index of Starting Page Numbers for ID Names

----- O -----

OUT 10 2... 9.01, 9.07, 9.13, 9.19,  
9.25

OUT 20 2... 9.32, 9.38, 9.45, 9.52,  
9.59

Outlet 1... 13.01, 13.04, 13.10

----- P -----

POND 10... 12.01, 14.01

POND 10 IN 2... 14.03, 14.10,  
14.17, 14.24, 14.31

POND 10 OUT 2... 10.01, 11.01,  
14.38, 14.39, 10.07, 11.07, 14.45,  
14.46, 10.13, 11.13, 14.52, 14.53,  
10.19, 11.19, 14.59, 14.60, 10.25,  
11.25, 14.66, 14.67

----- R -----

ROUTE 10 2... 14.73, 14.78, 14.84,  
14.90, 14.96

----- S -----

SUBAREA 10... 6.01, 7.01, 8.03,  
8.04, 8.09, 8.10, 8.15, 8.16,  
8.21, 8.22, 8.27, 8.28

SUBAREA 20... 6.03, 7.02, 8.34,  
8.35, 8.41, 8.42, 8.48, 8.49,  
8.55, 8.56, 8.62, 8.63

----- T -----

TypeII 24hr 2... 5.01, 5.03, 5.05,  
5.07, 5.09, 5.11, 5.13, 5.15,  
5.17, 5.19

----- W -----

WARNING... 1.01  
Watershed... 2.01, 3.01, 3.02, 3.03,  
3.04, 3.05, 3.06, 3.07, 3.08,  
3.09, 3.10, 3.11  
Wentzville... 4.01, 4.02

S/N:

PondPack Ver:

Compute Time:

Date:

