

**CITIES OF FRIENDSWOOD  
AND LEAGUE CITY**

**CLEAR CREEK  
DRAINAGE IMPROVEMENT STUDY**

**AUGUST, 1985**

**BJI J.O. 84027**

**BERNARD JOHNSON INCORPORATED**  
ENGINEERS • ARCHITECTS • PLANNERS  
HOUSTON • WASHINGTON • SAN ANTONIO

# BERNARD JOHNSON INCORPORATED

5050 WESTHEIMER • HOUSTON, TEXAS 77056 • 713/622-1400 • CABLE: JOHNSENG

August 7, 1985

Dr. Herbert W. Grubb  
Principal Planner  
Texas Department of Water Resources  
P.O. Box 13087, Capitol Station  
Austin, TX 78711

Reference:      Cities of Friendswood and League City  
                  Clear Creek Drainage Improvement Study  
                  BJI J.O. 84027

Dear Dr. Grubb:

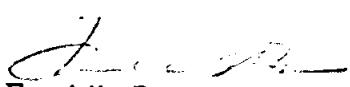
We have completed the final engineering report on the drainage improvement study of Clear Creek. This final report, updated to reflect comments received on the draft report from your staff and the cities, was prepared in accordance with the agreement between the Texas Department of Water Resources (TDWR) and the Cities of Friendswood and League City dated July 2, 1984.

Our findings indicate the need for, and potential flood damage reductions resulting from, drainage improvements to Clear Creek between the Farm-to-Market Road 528 crossing of Clear Creek and a point downstream of the State Highway 3 crossing. Study methodology and preliminary construction estimates of the proposed improvements are included.

We would like to acknowledge the valuable assistance that Mr. Gary Laneman of the TDWR staff provided throughout the duration of the project. Additionally, the U.S. Army Corps of Engineers, Galveston District assisted in the data collection and economic analysis phases of the project. The collective guidance and assistance by both agencies minimized procedural delays, project time and overall costs, thereby affording timely completion of the project.

Transmitted herewith are ten copies of the final report. Should you have any questions or require additional copies of the report, please call.

Sincerely,

  
Franklin B. Moon, P.E.  
Vice President

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Enclosures

**BERNARD JOHNSON INCORPORATED**

5050 WESTHEIMER • HOUSTON, TEXAS 77056 • 713/622-1400 • CABLE: JOHNSENG

August 7, 1985

The Honorable Ralph L. Lowe, Mayor  
City of Friendswood  
109 Willowick Avenue  
Friendswood, TX 77546

The Honorable Joe L. Lamb, Mayor  
City of League City  
300 West Walker  
League City, TX 77573

Reference:      Cities of Friendswood and League City  
                  Clear Creek Drainage Improvement Study  
                  BJI J.O. 84027

Gentlemen:

We have completed the final engineering report on the drainage improvement study of Clear Creek. The final report reflects all comments received on the draft report from each city staff and the Texas Department of Water Resources (TDWR).

Our findings indicate the need for, and potential flood damage reductions resulting from, drainage improvements to Clear Creek between the Farm-to-Market Road 528 crossing of Clear Creek and a point downstream of the State Highway 3 crossing. Study methodology and preliminary construction estimates of the proposed improvements are included.

We would like to acknowledge the valuable assistance that Mr. Gary Laneman of the TDWR staff provided throughout the duration of the project. Additionally, the U.S. Army Corps of Engineers, Galveston District assisted in the data collection and economic analysis phases of the project. The collective guidance and assistance by both agencies minimized procedural delays, project time and overall costs, thereby affording timely completion of the project.

Transmitted herewith are ten copies of the report for each city. Additionally, ten copies of the final report are being forwarded to TDWR pursuant to the agreement between the TWDR and the Cities of Friendswood and League City dated July 2, 1984.

We are prepared to assist the cities in the design and implementation of the improvements identified in the report and appreciate the opportunity to work on this interesting project.

Sincerely,

  
Franklin B. Moon, P.E.  
Vice President

c1  
Enclosures

**CLEAR CREEK  
DRAINAGE IMPROVEMENT STUDY**  
**FOR**  
**CITIES OF FRIENDSWOOD AND  
LEAGUE CITY, TEXAS**

**AUGUST 1985**

**BJI J.O. 84027**

**PREPARED BY**  
**BERNARD JOHNSON INCORPORATED**  
**5050 Westheimer**  
**Houston, Texas 77056**

## EXECUTIVE SUMMARY

### Introduction

On March 5, 1984, the cities of Friendswood and League City, Texas commissioned Bernard Johnson Incorporated to conduct a hydrologic and hydraulic analysis of the Clear Creek watershed. The purpose of the study was to determine the effects of implementing a portion of the federally authorized project along Clear Creek between State Highway 3 (S.H. 3) and Farm-to-Market Road 528 (F.M. 528).

### General Methodology

This study was conducted by utilizing the state-of-the-art computer modeling techniques developed by the U.S. Army Corps of Engineers and other recognized engineering procedures. Field investigations were made to verify the existing hydraulic information originally developed by the Corps of Engineers for the flood control project of Clear Creek. For study purposes the second outlet from Clear Lake to Galveston Bay, which is proposed to be constructed by the Harris County Flood Control District, shall be assumed to be in place prior to upstream improvements along Clear Creek.

### Findings and Conclusions

- A. Under existing conditions there are approximately 2,645 acres of land between S.H. 3 and the Galveston County/Brazoria County line that are inundated due to flooding along the main channel of Clear Creek resulting from the occurrence of the 10-year frequency storm.
- B. Construction of the proposed improvements will result in lowering the 10-year flood elevations approximately 0-7 feet between S.H. 3 and F.M. 528. The proposed improvements will remove from the 10-year floodplain approximately 30 percent of the land between S.H. 3 and F.M. 528, and 10 percent of the land between F.M. 528 and the Galveston County/Brazoria County line.

- C. For existing and future watershed conditions, respectively, the average annual damages incurred throughout the study area will be reduced by approximately 30 and 10 percent, and approximately 250 and 180 existing structures will be removed from the 10-year floodplain as a result of construction of the proposed improvements.
- D. The total cost of the improvements proposed as a result of this study is approximately \$21,223,000.

Recommendations

- A. That the proposed improvements be constructed.
- B. That further improvements to Clear Creek, upstream of the reach investigated in this report, be investigated and evaluated.

**CLEAR CREEK  
DRAINAGE IMPROVEMENT STUDY  
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## **1.0 INTRODUCTION**

### **1.1. Authorization**

This report was prepared in accordance with the letter agreement between the cities of Friendswood and League City, Texas ("Cities") and Bernard Johnson Incorporated (BJI), dated March 5, 1984, for conduct of a hydrologic and hydraulic analysis of Clear Creek. The report describes the results of that analysis.

### **1.2 Objective and Scope**

The scope of services as defined in the letter agreement is as follows:

- A. Prepare application for a flood control planning contract between the Cities and the Texas Department of Water Resources (TDWR), the contract to be funded from the TDWR Research and Planning Fund. Represent the Cities, as required, in correspondence, meetings, etc. prior to final Board decision on the application. No further work is to be undertaken pending advice of favorable Board action and then only if such work is within the scope of the Cities' contract with TDWR.
- B. Hold Project start-up meeting with the Cities, establish lines of communication and coordination, discuss scheduling, etc.
- C. Collect available pertinent data on the Clear Creek watershed from the District and from the Galveston District office of the U. S. Army Corps of Engineers, such as hydrology and hydraulic models, flood maps, aerial photos and maps, design memorandums, survey data, etc. Conduct field reconnaissance of watershed area to be investigated. Review and evaluate data and determine additional requirements, if any, and advise the Cities of results.
- D. Assess existing watershed conditions under 10 year storm frequency.

1. Establish available hydrology/hydraulic models on in-house computer and update as required to reflect known existing conditions.
2. Develop flood flows, flood maps and flood profiles, define floodplains and evaluate flood damage potential.
3. Review findings with the Cities.

E. Develop program of improvements.

1. Again utilizing the hydrology/hydraulic models and the existing conditions information developed in item D, determine the design storm frequency to be used and test various improvements on the model to identify those which offer significant damage reduction within the project cost parameter and without imposing the hazard of increased downstream damage.
  2. Determine that all improvements selected for inclusion in the program are within the scope of the Corps of Engineers improvement project for Clear Creek.
  3. Prepare flood profiles and floodplain maps for the improved condition, taking into consideration all proposed improvements.
  4. Review findings with the Cities.
- F. Present the recommended results of the investigation in a bound report, all improvements to be prioritized and described and sketched in sufficient detail to permit design engineers to prepare detailed plans and specifications for construction without further hydrologic/hydraulic investigation or study. Construction cost estimates for all recommended improvements would be included. The report will also contain a map(s) which will comparatively depict the floodplains resulting from a 10 year storm (and other storm events, such as 5 year, 25 year, etc., as may be desired) under:

1. Existing conditions,
  2. Improved conditions contemplated by this plan,
  3. Improved conditions contemplated by the Corps of Engineers' authorized plan for Clear Creek.
- G. Assist the Cities, as desired, in preparing information for dissemination to the public and in making presentations to elected officials and/or at public meetings.
- H. Assist the Cities in preparation of permit applications to enable improvements to be constructed. Take follow-up actions, as required, aimed at securing approval of the applications by cognizant governmental agencies.

Subsequent to the agreement between the Cities and BJI, on July 2, 1984 the Cities entered into an agreement with Texas Department of Water Resources to obtain financial assistance for the hydrologic and hydraulic analysis of Clear Creek. This financial assistance was made possible through the Water Conservation, Water Quality, and Water Development Planning and Research, and Flood Control Planning Fund. The scope of services to be furnished by the Cities under this agreement modified the scope of services between the Cities and BJI as follows:

- A. Conduct public meetings to solicit comments from the general public as to the scope and content of the drainage study.
- B. Obtain additional field surveys where necessary to update the hydrologic and hydraulic models for current watershed conditions.
- C. Develop preliminary flood control channel designs to contain the 10-year frequency flood event within banks.
- D. Estimate the potential flood damage reduction expected from the proposed improvements. This task will be limited to calculating the reduction in floodplain surface area.

On September 25, 1984 a meeting was held at the Friendswood City Hall to discuss recent correspondence received by the City of Friendswood from the Corps of Engineers. The correspondence stated the status of the federal project along Clear Creek and included a revised cost estimate for the federal project. The federal project total cost is now estimated at \$120 million, up approximately \$28 million from the last estimate.

As previously stated, the purpose of this study was to determine the improvements which offer significant damage reduction within a project cost of \$10-12 million dollars. This project cost limitation was based upon an earlier estimate of the cost of the federal project between F.M. 528 and S.H. 3. In light of the recently revised federal project cost estimate, it was agreed that this drainage study would investigate the effects of the improvements identified in the federal project between F.M. 528 and S.H. 3 with the requirement that such improvements would not impose a hazard of increased downstream damage. Estimate of the construction cost for those improvements would be calculated.

Discussions of the detailed hydrologic and hydraulic analysis along with the recommended improvements and estimated construction costs are outlined in the following sections.

## 2.0 GENERAL INFORMATION

### 2.1 Background

Since 1930, major rainfall events have occurred within the Clear Creek watershed, causing widespread flooding throughout the watershed. In July 1979, tropical storm Claudette deposited between 10 and 20 inches of rain throughout the watershed resulting in flood damages estimated at \$95 million dollars.<sup>(2)</sup>

Recognizing the existing flooding potential of the Clear Creek watershed, the federal government had initiated planning studies to investigate the improvements necessary to reduce the flooding throughout the watershed. In 1968, the U.S. Congress authorized a flood control improvement plan for Clear Creek, upstream of Clear Lake. The improved channel, designed to convey the 100-year flood flows within channel banks, would be approximately 31 miles in length, thereby reducing the natural channel length by 10 miles.

In January 1974, the U.S. Army Corps of Engineers held a public meeting to discuss the federally authorized plan. There was public expression of a strong desire to develop a plan which would provide flood protection with minimal disturbance to the natural environment. Additionally, residents in the Clear Lake area requested that the project include additional outlet capacity from Clear Lake to Galveston Bay to offset the potential increase in flooding around the lake that would be caused by upstream drainage improvements.

Subsequent to the January 1974 public meeting, numerous flood control alternatives were investigated, such as reduced levels of flood protection, channel bypasses around populated areas, and reducing the total length of improved channels. The current plan is commonly referred to as the "Modified 10-Year Channel". This plan consists of approximately 23 miles of improved channel upstream of Clear Lake, designed to provide flood protection against the 10-year frequency flood. Non-structural measures, such as floodplain management of the residual 100-year floodplain, are recommended. Additionally, a second outlet between Clear Lake and Galveston Bay is proposed. The federal project is now in the design phase, and construction plans and specifications are being prepared

for the first phase of construction between the headwaters of Clear Lake upstream to the S.H. 3 crossing. No appropriations for construction have been made to date.

On September 27, 1983 the City of Friendswood held a public meeting of local, state and federal officials to discuss the status of the Corps of Engineers' Clear Creek flood control project. At that time, federal budgetary reductions were anticipated and the likelihood of Congress appropriating funds for "new construction starts" of water-related projects appeared remote. Realizing these Congressional sentiments and the future implications upon the Clear Creek project, the City of Friendswood proposed participation from local communities along Clear Creek to finance the cost of an independent engineering study of the Clear Creek watershed. This study, designated as the Clear Creek Safety Valve Plan, would investigate the hydrologic and hydraulic effects of implementing a portion of the federal project as outlined in the Clear Creek Preconstruction Authorization Planning Report, of the Corps of Engineers. In the event that the local sponsors elect to construct the Safety Valve Plan prior to federal appropriations for construction funding, the local sponsors plan to seek credit for the cost of constructing the proposed improvements toward the local share of the federal project prior to start of construction.

On July 2, 1984 the cities of Friendswood and League City contracted with the Texas Department of Water Resources to jointly finance a study of Clear Creek. The goal of the investigation was to determine the potential reduction in flood elevations resulting from certain channel improvements along Clear Creek from F.M. 528 to S.H. 3. The study was to be based upon the assumption that the second outlet from Clear Lake to Galveston Bay would have been constructed prior to construction of the upstream improvement. Preliminary cost estimates would be prepared for the improvements identified in the analysis.

## 2.2 Location

Clear Creek forms the southern boundary of Harris County and the northern boundary of Galveston County and portions of Brazoria County. Clear Creek originates in Fort Bend County and flows in a southeasterly direction to its outfall into Clear Lake. The stream is approximately 45 miles in length and

drains a watershed of approximately 260 square miles upstream of the Clear Lake outlet to Galveston Bay. The stream reach that was investigated in detail in this report lies between the S.H. 3 crossing of Clear Creek and the F.M. 528 crossing, some eight miles upstream. (See Exhibit 1).

#### **2.3 Topography**

The majority of the land within the Clear Creek watershed is relatively flat with a mild slope of approximately 0.03% in a southeasterly direction. Elevations vary from approximately mean sea level (MSL) in the Clear Lake area, to approximately 75 feet MSL in the western portion of the watershed. All elevations were obtained from United States Geological Survey (U.S.G.S.) 7.5 minute quadrangle maps and are based upon 1927 datum, 1973 adjustment.

#### **2.4 Soil Characteristics**

The predominant soil deposits in the Clear Creek watershed are comprised of clays, silts and localized sandy pockets. The soil has high shrink-swell potential, low bearing capacity, high moisture content and low permeability.<sup>(3)</sup>

#### **2.5 Climate**

The climate of the area is humid with a moderate range of temperatures. Based upon data obtained from historical weather records from the Alvin Weather Station,<sup>(4)</sup> average temperatures range from 54° in the winter to 80° in the summer. The average annual precipitation on the watershed is approximately 47 inches.

### **3.0 EXISTING WATERSHED CONDITIONS**

#### **3.1 General**

In the development of a flood control project, the existing flooding potential of the stream under investigation is established. The existing watershed conditions direct the investigation toward stream reaches where flood control measures are necessary. This phase of the analysis provides a basis for comparison between the pre and post improvement conditions to assess the merits of the proposed flood control improvements.

The following sections describe the models and methods utilized to establish the flooding potential along Clear Creek. Sources of the base data, and procedures utilized to update the data to reflect 1984 watershed conditions, will be addressed.

#### **3.2 Hydrology**

##### **3.2.1 Hydrologic Model Source**

The Galveston District of the Corps of Engineers prepared (in 1981) the original hydrologic model of the Clear Creek watershed for their Clear Creek Preconstruction Authorization Planning Report. This model was developed to investigate the rainfall/runoff/diversion characteristics throughout the watershed.

##### **3.2.2 Hydrologic Parameters**

The basic information required to construct a hydrologic model include: drainage area, subarea characteristics, rainfall, infiltration loss rates, and stream routing components. The following paragraphs describe each element of the hydrologic model and the methods utilized to develop each element.

- a. Drainage Areas - The drainage area of the Clear Creek watershed, as shown on Exhibit 2, encompasses an area of approximately two hundred and sixty (260) square miles. Of this total drainage area, approximately 174 square miles are tributary to the mainstream of Clear Creek upstream of Clear Lake. In the original hydrologic model, seventy-four individual subareas were identified to develop runoff hydrographs (quantity of runoff over time measured at a fixed location). The subareas were delineated utilizing topographic data from U.S.G.S. 7.5 minute quadrangle maps supplemented with one-foot contour interval aerial topographic maps. Shown on Exhibit 3 are the subareas utilized in the hydrologic model.
- b. Subarea Characteristics - Subarea characteristics were utilized to develop the runoff hydrograph of each subarea under investigation. The methodology used to calculate the runoff hydrographs was the Clark Unit Hydrograph Method. The two main variables in the derivation of the Clark unit hydrograph are time of concentration ( $T_c$ ) and Clark storage coefficient ( $R$ ). Time of concentration is a function of the length and type of flow path that the runoff assumes within a subarea. It is assumed that the longest travel time necessary for runoff to travel from the hydraulically most distant point of the subarea to its outlet or other reference point downstream is equal to the time of concentration. This variable affects the peak flow of the runoff hydrograph. The Clark storage coefficient is a value that simulates the storage characteristics of the subarea (eg: detention facilities, rice fields, etc.) and affects the overall shape of the runoff hydrograph.

The simultaneous equations for calculating  $T_c$  and  $R$  are:

$$\begin{aligned} T_c + R &= 0.966 L^{0.411} (I\%)^{-0.60} \\ \frac{R}{T_c + R} &= 0.66 \end{aligned}$$

where:

|    |   |   |
|----|---|---|
| Tc | = | time of concentration, in hours                             |
| R  | = | Clark storage coefficient, in hours                         |
| L  | = | Stream length from its outfall to drainage divide, in miles |
| I% | = | Percentage of impervious area                               |

The above equations were developed by the Galveston District of the Corps of Engineers from a linear regression analysis of twenty-seven stream gages throughout the Houston Metropolitan Area. The analysis studied the hydrologic effects of over 470 storms ranging in magnitude from 0.29 to 10.60 inches of rainfall. Shown in Table 1 (Section 8) are the subarea characteristics in the original model which were used to calculate the existing runoff potential of each subarea investigated.

- c. Rainfall - The 10-year frequency storm was used as the basis for establishing existing watershed conditions. This storm was selected since the federal project has been modified to a 10-year flood control project. The point rainfall values utilized in the original hydrologic model were obtained from a National Weather Bureau Technical Paper<sup>(5)</sup>. The point rainfall values were adjusted according to the depth-area-duration procedures outlined in this technical paper when simulating storm centerings throughout the watershed. The unadjusted 10-year point rainfall value is approximately 8.6 inches.
- d. Infiltration Loss Rates - Infiltration loss rate is the quantity of rainfall which is expected to be absorbed into the soil and which does not contribute to subarea runoff. The original model utilized an initial loss rate of 1.0 inch and a uniform rate of 0.05 inches per hour. The values were selected based upon storm reproductions for the Houston Metropolitan Area. In the absence of available gage records within the Clear Creek watershed, the selected values were considered to be representative.

e. Stream Routing Components - The original hydrologic model utilized the modified Puls methods of routing to study the flow characteristics of the flood wave traveling downstream along Clear Creek. This method determines the amount of attenuation (reduction in peak flow) of the floodwave along the mainstream caused by basin storage (overbank flooding). The routing components required for the modified Puls routing are storage-discharge relationships and routing steps. Both components are derived from steady state backwater runs of the mainstream of Clear Creek. Utilizing various steady state runs reflecting a range of synthetic flood conditions, routing nodes and steps are selected based upon average travel time. Storage volumes are calculated between each pre-selected routing node.

### 3.2.3 Model Revisions

Prior to calculating the potential 10-year frequency flood flows throughout the Clear Creek watershed, several revisions to the original hydrologic model were required.

Initially, the Clear Creek watershed was modeled utilizing the "HEC-1 Flood Hydrograph Package for Dam Safety Investigation", which was developed by the Hydrologic Engineering Center of the U.S. Army Corps of Engineers in September, 1978. A newer version of HEC-1 was introduced by the Hydrologic Engineering Center in September, 1981.<sup>(6)</sup> The original model was revised to be compatible with the latest version of HEC-1. Upon completion of the hydrologic model recoding and formatting, flood flows for 1981 existing watershed conditions, subject to the occurrence of the 10-year frequency flood, were calculated and compared to the flood flows documented in the Clear Creek Preconstruction Authorization Planning Report to ensure correct model conversion.

Since development of the original model, local drainage districts operating within the Clear Creek watershed have constructed improvements to several reaches of the mainstream of Clear Creek and one

major tributary--Marys Creek. The improvements included channel clearing and widening, channel excavation, concrete lining, and high-stage overflow channels across oxbows. Due to the sporadic and isolated nature of the improvements and the fact that only minor changes in development occurred between 1981 and 1984, the subarea characteristics developed for 1981 conditions were considered appropriate. However, these improvements could conceivably alter the storage-outflow relationships utilized to investigate the attenuation of the peak flood flows along Clear Creek. Therefore, the backwater models of Clear Creek and Marys Creek were modified to reflect all improvements constructed since development of the original models, and revised steady-state backwater runs were prepared. (Refer to Section 3.3.2 below, for further description.) Based upon the revised steady-state analysis and maintenance of the pre-selected routing reaches, new storage-outflow relationships and routing steps were calculated.

Utilizing the revised hydrologic model of the watershed, which reflected the changes previously described, 10-year frequency flood flows were recalculated to represent 1984 existing watershed conditions. Shown in Table 2 is a tabulation of the 10-year frequency flood flows for 1981 and 1984 existing watershed conditions. A comparison of the flows reveals an increase of some 15-20 percent throughout most of the watershed between 1981 and 1984. The computer summary printouts of the flood routings are included in Appendix I (Section 10) to this report.

### **3.3 Hydraulics**

#### **3.3.1 Hydraulic Model Source**

The Galveston District of the Corps of Engineers prepared (in 1981) the original hydraulic model of Clear Creek for the Preconstruction Authorization Planning Report. The hydraulic model was developed to calculate the potential flood elevations along the channel utilizing physical data describing the flow characteristics of Clear Creek and the flood flows obtained in the hydrologic analysis. The following paragraphs describe the basic data input for the model.

- A. Floodplain Reconnaissance - Field investigations were made in order to verify factors needed to estimate channel and floodplain roughness coefficients required for the hydraulic analysis.
- B. Cross Sections - Cross section measurements were performed utilizing field survey methods to an accuracy of  $\pm 0.1$  of a foot. Field measurements included the preparation of a base level line throughout the project area tied to the 1973 datum.
- C. Surveys of Bridges and Structures - Bridge dimensions were measured in the field to an accuracy of  $\pm 0.1$  of a foot. A bridge centerline cross section was measured at the same time as other cross section work to determine the obstructive characteristics of the roadway located in the overbank areas.
- D. Roughness Coefficients - Roughness coefficients (Mannings "n") for the Clear Creek watershed were estimated from field inspection, field photographs and aerial photographs. Roughness values for the channel areas varied between 0.03 and 0.06, while roughness values for the overbank areas varied between 0.07 and 0.15. The above "n" values appeared to be adequate and representative of the flow characteristics of the watershed as compared to floodplain studies on drainageways of similar characteristics.

The original hydraulic model was prepared utilizing the Corps of Engineers HEC-2 computer model<sup>(7)</sup> to calculate the existing flood potential along Clear Creek. This program incorporates the field survey data, topographic map information and flood flows computed in the hydrologic analysis to calculate potential flood elevations.

### 3.3.2 Model Revisions

As previously described in Section 3.2.3, numerous improvements have been constructed within the Clear Creek watershed since development of the original hydrologic and hydraulic models. Hydraulic information relating to the drainage improvements was collected from the following sources:

#### Clear Creek Drainage District (CCDD)

- (1) As-built drawings of five high stage overflow channels across oxbows along Clear Creek between Interstate Highway 45 (I.H. 45) and the Marys Creek outfall.
- (2) Construction plans of improvements along Marys Creek downstream of the Brazoria/Galveston County line.
- (3) General limits of channel maintenance performed along Cowarts and Chigger Creeks.

#### Brazoria County Drainage District No. 4 (BCDD #4)

- (1) Field Surveys - cross-sectional field surveys of the channel widening and south bank excavation along Clear Creek from State Highway 35 (S.H. 35) downstream to the reservoirs located along the north bank of Clear Creek in Harris County.

#### Harris County Flood Control District (HCFCD)

- (1) Preliminary engineering report of the proposed second outlet from Clear Lake to Galveston Bay.<sup>(8)</sup>
- (2) As-built drawing of one high stage overflow channel across an oxbow along Clear Creek.
- (3) Hydraulic model of Clear Creek reflecting channel improvements along the upper reaches of Clear Creek and improvements to three bridges crossing in the vicinity of S.H. 35.

#### City of League City

- (1) Watershed reports of tributaries located in the vicinity of I.H. 45 (Magnolia Creek, Newport Ditch and Corum Ditch), which describe drainage improvements along each tributary.

Prior to revising the hydraulic model, a field reconnaissance of the watershed was performed to confirm the limits and extent of the

improvements described above and verify channel reach lengths and roughness coefficients between surveyed cross-sections. The original hydraulic model of Clear Creek was then adjusted to reflect conditions observed in the field.

Utilizing the hydraulic information provided by HCFCD, CCDD and BCDD #4, the hydraulic model of Clear Creek was revised to reflect the improvements upstream and downstream of S.H. 35 and the six high stage overflow channels. These improvements resulted in significant changes in the hydraulic capacity of Clear Creek and reduced the total length of direct flow in the mainstream during flood stage. Although this study did not address the existing flooding potential along the major tributaries, the hydraulic information on the improvements to the tributaries was required to assess the subarea characteristics and the resultant impact upon the computed runoff hydrographs in the hydrologic analysis.

The improvements along Marys Creek were modeled in the hydrologic analysis since a separate routing of this stream was established within the watershed routing model. The subarea characteristics (time of concentration and Clark storage coefficient) for Cowarts Creek, Chigger Creek, Magnolia Creek, Newport Ditch and Corum Ditch were recalculated to reflect the improvements constructed since development of the original hydrologic model. The improved subarea characteristics were compared to the subarea characteristics utilized in the Corps hydrologic and hydraulic analysis. The comparison indicated that the improvements along these streams had not significantly affected the overall time of concentration of each subarea, therefore the improvements were disregarded.

### **3.3.3 Initial Conditions**

A study of the coincident occurrence of rainfall within the Clear Creek watershed and normal tide levels of Galveston Bay was performed by the Galveston District of the Corps of Engineers for the Preconstruction Authorization Planning Report. The analysis determined that a peak tide

level of 3.3 feet above MSL would occur about one time per year with a median tide level of 2.0 feet above MSL. The original model utilized the median tide elevation of 2.0 MSL as the starting elevation for the water surface profile computations for Clear Creek. This elevation appeared to be representative and was utilized as the starting elevation for this report.

### 3.3.4 Water Surface Profiles

The water surface profiles along Clear Creek for 1984 existing watershed conditions were computed utilizing the updated HEC-2 computer model with the revised flood flows from the hydrologic analysis. Shown on Exhibit 4\* is the cross-sectional layout of the original field surveys used in the computer modeling. Shown in Table 3 is a comparison of the original versus revised hydraulic model cross-section designations at key locations along Clear Creek. This table illustrates the revised channel length of Clear Creek due to reach length adjustments made as a result of field observations. Shown on Exhibit 5\* are the 10-year frequency water surface profiles for existing conditions with and without the proposed improvements. (See Section 4.0 for description of existing conditions with proposed improvements.) Shown on Exhibit 6\* are the 10-year frequency floodplain limits for existing conditions with and without the proposed improvements. The HEC-2 computer summary printouts for the 1984 existing conditions water surface profiles are provided in Appendix 2.

\*The total length of Clear Creek (including Clear Lake) is approximately 45 miles. This report addresses the effects of improving a 5-mile reach of the mainstream located in the downstream reaches of the watershed. For the purpose of this report, all exhibits of the mainstream were limited to the lower 25 miles of Clear Creek (including Clear Lake).

## **4.0 PROPOSED IMPROVEMENTS**

### **4.1 General**

As earlier stated, the goal of this study of Clear Creek was to determine the feasibility of implementing a portion of the federally authorized flood control project of Clear Creek. The study investigated the potential reduction in the 10-year frequency flood elevations along Clear Creek between F.M. 528 downstream to S.H. 3, assuming the following improvements were constructed:

- (1) Second outlet from Clear Lake to Galveston Bay
- (2) Channel improvements along Clear Creek from F.M. 528 downstream to S.H. 3

The study was based upon the following constraints:

- (1) Maintain the alignment and channel sizes identified in the federal project
- (2) Assume compliance with all environmental requirements identified in the federal project
- (3) No increase in the flood levels along Clear Creek downstream of the Safety Valve Plan

The following sections describe the hydrologic and hydraulic analysis of the proposed improvements and an economic assessment of the potential reduction in flood damages resulting from implementation of the proposed improvements.

### **4.2 Hydrologic Conditions**

Generally, in the investigation of flood control improvements, two variables (development and channel improvements) affect the resultant design flood flows utilized in the final analysis. Dependent upon the existing developed condition of the watershed and the natural characteristics of the stream under investigation, future watershed development with fully improved channels may result in approximately 200-300% increase in the existing condition peak flood flows.

This increase in flows results from the increased volume of runoff associated with development combined with the decreased hydraulic travel time due to storm sewers and improved open channels. For this reason, two hydrologic watershed conditions were investigated--existing and future--with the proposed improvements constructed in each case. The following is a general description of each of these hydrologic conditions:

#### 4.2.1 Existing Watershed Conditions with the Proposed Improvements

The hydrologic and hydraulic effects of construction of the proposed improvements, with no increase in development within the watershed, were analyzed. The results of this analysis illustrates the immediate effects, throughout the watershed, of the proposed channel improvements. The improved channel reduces travel time and basin storage, thus increasing the computed peak flood flows with no increase in the volume of runoff, since development within the watershed is assumed to remain unchanged. The stream routing coefficients developed for the existing stream characteristics were modified to reflect the improved channels identified in the federal project.

#### 4.2.2 Future Watershed Conditions with the Proposed Improvements

The hydrologic and hydraulic effects of future development of the watershed, combined with the construction of the proposed improvements, were analyzed. The results of this analysis illustrates the potential increase in peak flood flows due to the increased volume of runoff attributed to future development and reduced travel time associated with the proposed channel improvements. The hydrologic model developed for existing watershed conditions with the proposed improvements was modified to reflect future watershed conditions. The subarea characteristics ( $T_c$  &  $R$ ) utilized to calculate the runoff from each subarea were revised to reflect future development. The revised subarea characteristics were obtained from the Corps of Engineers Preconstruction Authorization Planning Report. These subarea characteristics were based upon estimated growth patterns and future land use predictions for the Clear Creek watershed (See Table 4).

Shown in Table 5 are the computed 10-year frequency flood flows for the existing watershed conditions assuming no improvement, and for existing and future watershed conditions assuming construction of the proposed improvements. The computer summary printouts of the flood routings are included in Appendix I to this report.

#### 4.3 Proposed Improvements

##### 4.3.1 Second Outlet

An underlying assumption of the Safety Valve Plan is that the second outlet from Clear Lake to Galveston Bay will have been constructed. Without provision for a second outlet, ultimate improvements to Clear Creek would cause a rise in the levels of Clear Lake of approximately 2-3 feet, as indicated in the Corps of Engineers report on the federal project. The proposed second outlet would provide the necessary flow area and hydraulic gradient to accommodate drainage improvements to Clear Creek without increasing the flood potential to residents located adjacent to the lake. Utilizing data obtained from HCFCD, the outlet's cross-sectional flow area and alignment were incorporated into this analysis.

##### 4.3.2 Safety Valve Plan

The proposed improvements identified in the federal project between F.M. 528 and S.H. 3 were maintained for this investigation. Specifically, the proposed channel alignment, channel geometry and flow line were used. The bridge improvements proposed at S.H. 3 and I.H. 45 were incorporated into the analysis.

##### 4.3.3 Downstream Improvements

The initial hydraulic analysis of the effects of the improvements proposed in the Safety Valve Plan, combined with the second outlet, indicated significant reductions in the flood levels between S.H. 3 and a point approximately three miles upstream of F.M. 528. However, since the improvements begin approximately two miles upstream of the Clear Creek

outfall into Clear Lake, the flood levels along this two mile reach of Clear Creek increase approximately 0.5 feet due to the upstream drainage improvements. Additional improvements were therefore proposed downstream of S.H. 3 to offset the effects associated with the upstream improvements. The downstream improvement requirements were determined based upon the anticipated flood flows resulting from future watershed development. Therefore, this reach of Clear Creek will experience minor reduction in flood levels immediately and until such time as the watershed achieves future development. Assuming no further improvements to the mainstream of Clear Creek, the flood levels along this reach of the stream will increase back to the levels presently being experienced.

Shown in Table 6 is a comparison of the existing versus improved conditions hydraulic model cross-section designations, at selected bridge locations throughout the watershed. This table illustrates the reduced channel length of Clear Creek resulting from construction of the proposed improvements. Table 7 contains a prioritized tabulation of the proposed improvements. Exhibits 5 and 6 show the water surface profiles and floodplains comparing the existing watershed conditions for both pre and post construction of the proposed improvements. Shown on Exhibits 7 through 11 are sketches of the typical channels, pipeline relocations and bridge improvements recommended. The computer summary printout of the flood profiles is included in Appendix 2 to this report.

The flood profiles for future watershed conditions with the proposed improvements were also calculated. The results of this analysis indicate that the levels are approximately 0.3 to 0.5 feet above the flood levels calculated for existing watershed conditions with the proposed improvements. For purposes of clarity, the calculated water surface profile and floodplain limits for future watershed conditions with the proposed improvements have been omitted from Exhibits 5 and 6.

Review of the computed flood elevations for future watershed conditions indicate that flood levels upstream of F.M. 528 will be greater than the flood elevations calculated for existing watershed conditions (1984). This

is due to the increased runoff associated with future development with no drainage improvements to Clear Creek upstream of F.M. 528. Therefore, it is recommended that future studies be made of the Clear Creek watershed, upstream of the Safety Valve Plan, to provide the necessary drainage improvements to Clear Creek to accommodate upstream development without increasing the flood potential to existing developed areas.

#### 4.4 Economic Analysis

##### 4.4.1 Damage Reduction

A flood damage analysis was performed to determine the extent of damages anticipated throughout the study reach under existing watershed and channel conditions and the amount of reduced damages resulting from the construction of the proposed improvements. Utilizing the original stage-damage relationship prepared for the federal project, (relationship between depth of flooding and dollar amount of damages), total damages and number of inundated structures were calculated for each watershed condition investigated for a range of storm events (2, 10, 25, 50, 100-year and Standard Project Flood), in order to compute average annual flood damages. Shown in Table 8 are the results of the economic analysis,\* indicating that damages within the study area will be reduced approximately 30 percent and 10 percent, respectively, as a result of the construction of the proposed improvements for existing and future watershed conditions.

The above analysis concentrated on damages associated with flooding to existing structures only. The analysis does not address other benefits such as reduction in flood insurance costs, restoration of land values and projected benefits associated with future development.

\*This information was developed with direct assistance from the Economics Branch of the Galveston District, Corps of Engineers.

#### **4.4.2 Cost Estimate**

The construction cost estimates (Table 9) for the improvements identified in this report were based upon the itemized cost estimate from Appendix V - Engineering and Cost Data of the "Clear Creek, Texas -Flood Control, Preconstruction Authorization Planning Report" prepared by the Galveston District, Corps of Engineers. Through discussion with District personnel, inflation factors were obtained to adjust the original cost estimate to reflect 1984 conditions. Construction cost figures include estimates for engineering and design, contingencies, supervision and administration.

## **5.0 CONCLUSIONS**

The analysis indicates the following:

- A. Under existing conditions there are approximately 2,645 acres of land, between S.H. 3 and the Galveston County/Brazoria County line, that are inundated due to flooding along the main channel of Clear Creek resulting from the occurrence of the 10-year frequency storm.
- B. Construction of the proposed improvements will result in lowering the 10-year flood elevation approximately 0-7 feet between S.H. 3 and F.M. 528. The proposed improvements will remove from the 10-year floodplain approximately 30 percent of the land between S.H. 3 and F.M. 528 and 10 percent of the land between F.M. 528 and the Galveston County/Brazoria County line.
- C. The average annual damages incurred throughout the study area will be reduced by approximately 30 and 10 percent, and approximately 250 and 180 existing structures, respectively, will be removed from the 10-year floodplain as a result of construction of the proposed improvements, under existing and future watershed conditions.
- D. The total cost of the proposed improvements, excluding the cost of the second outlet, is approximately \$21,223,000.

## 6.0 RECOMMENDATIONS

- A. That the Safety Valve Plan and downstream improvements be constructed.
- B. That further improvements to Clear Creek, upstream of the reach investigated in this report, be investigated and evaluated.

## 7.0 REFERENCES

1. "Clear Creek, Texas, Flood Control, Preconstruction Authorization Planning Report," Department of the Army, Galveston District, Corps of Engineers, Galveston, Texas, May 1982.
2. "Tropical Storm Claudette," U.S. Army Engineer District, Galveston, Corps of Engineers, Galveston, Texas, September 1980.
3. "Brazoria County Municipal Utility District Nos. 4 and 5, 100-Year Flood Drainage Study and Proposed Improvements Adjacent to Clear Creek Trousdale Tract," Bernard Johnson Incorporated, July 1980.
4. "Climatological Data," United States Department of Commerce, National Oceanic and Atmospheric Administration.
5. "Technical Paper No. 40, Rainfall Frequency Atlas of the United States," David M. Hershfield, U.S. Department of Commerce, Weather Bureau, Washington, D.C., May 1961.
6. "HEC-1 Flood Hydrograph Package, Users Manual," Hydrologic Engineering Center, U.S. Army Corps of Engineers, Davis, California, September 1981.
7. "HEC-2 Water Surface Profiles, Users Manual," Hydrologic Engineering Center, U.S. Army Corps of Engineers, Davis, California, November 1982.
8. "Preliminary Engineering Report, Clear Lake Second Outlet, A100-00-00," Dannenbaum Engineering Corporation, December 1983.

TABLE 1  
SUBAREA CHARACTERISTICS

| <u>Location</u> | <u>Subarea Description*</u> | <u>Area (Sq. Miles)</u> | <u>Length (Miles)</u> | <u>Percent Impervious</u> | <u>Tc (Hrs.)</u> | <u>R (Hrs.)</u> |
|-----------------|-----------------------------|-------------------------|-----------------------|---------------------------|------------------|-----------------|
| 1               | Above SM 45.31              | 4.04                    | 3.67                  | 3                         | 4.58             | 8.88            |
| 2               | SM 45.31 to SM 44.12        | 3.27                    | 2.73                  | 3                         | 4.04             | 7.85            |
| 3               | SM 44.12 to SM 42.49        | 8.33                    | 4.33                  | 3                         | 4.90             | 9.51            |
| 4               | SM 42.49 to SM 40.55        | 6.93                    | 3.56                  | 3                         | 4.52             | 8.78            |
| 5               | SM 40.55 to SM 38.88        | 6.95                    | 3.60                  | 4                         | 3.81             | 7.38            |
| 6               | SM 38.88 to SM 36.61        | 5.87                    | 3.77                  | 5                         | 3.40             | 6.61            |
| 7               | SM 36.61 to SM 35.18        | 3.33                    | 3.63                  | 5                         | 3.35             | 6.49            |
| 8               | SM 35.18 to SM 34.22        | 3.71                    | 3.00                  | 6                         | 2.77             | 5.38            |
| 9               | SM 34.22 to SM 33.17        | 3.03                    | 2.50                  | 15                        | 1.49             | 2.88            |
| 10              | SM 33.17 to SM 32.49        | 1.23                    | 2.80                  | 4                         | 3.44             | 6.69            |
| 11              | SM 32.49 to SM 31.63        | 1.61                    | 3.65                  | 4                         | 3.83             | 7.43            |
| 12              | SM 31.63 to SM 29.98        | 4.05                    | 3.10                  | 10                        | 2.02             | 4.26            |
| 13              | SM 29.98 to SM 23.20        | 4.53                    | 6.82                  | 10                        | 2.86             | 5.55            |
| 14              | Trib. at SM 23.20           | 8.33                    | 6.93                  | 15                        | 2.26             | 4.39            |
| 15A1            | Turkey Creek A1             | 4.23                    | 3.57                  | 12                        | 1.97             | 3.82            |
| 15A2            | Turkey Creek A2             | 2.15                    | 2.71                  | 3                         | 4.04             | 7.84            |
| 15A3            | Turkey Creek A3             | 2.60                    | 3.15                  | 4                         | 3.60             | 7.00            |
| 15A4.           | Turkey Creek A4             | 1.39                    | 2.59                  | 3                         | 3.96             | 7.68            |
| 16              | SM 23.20 to SM 19.55        | 1.98                    | 4.73                  | 3                         | 5.06             | 9.82            |
| 17A1            | Marys Creek A1              | 3.47                    | 2.56                  | 3                         | 3.83             | 7.64            |
| 17A2            | Marys Creek A2              | 3.88                    | 3.00                  | 5                         | 3.09             | 6.00            |
| 17A3            | Marys Creek A3              | 2.90                    | 2.78                  | 5                         | 1.77             | 3.44            |
| 17A4            | Marys Creek A4              | 2.22                    | 3.02                  | 3                         | 3.09             | 6.00            |
| 17A5            | Marys Creek A5              | 4.92                    | 5.33                  | 5                         | 2.59             | 5.02            |
| 18              | SM 19.55 to SM 17.04        | 2.82                    | 3.49                  | 10                        | 2.17             | 4.21            |
| 19A1            | Chigger Creek A1            | 2.48                    | 3.00                  | 3                         | 4.20             | 8.16            |
| 19A2            | Chigger Creek A2            | 1.07                    | 1.35                  | 3                         | 3.02             | 5.87            |
| 19A3            | Chigger Creek A3            | 1.12                    | 2.97                  | 3                         | 4.18             | 8.13            |
| 19A4            | Chigger Creek A4            | 1.38                    | 2.49                  | 5                         | 2.81             | 5.56            |
| 19A5            | Chigger Creek A5            | 0.66                    | 1.72                  | 3                         | 3.35             | 6.49            |
| 19A6            | Chigger Creek A6            | 1.19                    | 2.84                  | 5                         | 3.03             | 5.87            |
| 19A7            | Chigger Creek A7            | 0.63                    | 2.55                  | 5                         | 2.89             | 5.62            |
| 19A8            | Chigger Creek A8            | 1.94                    | 2.74                  | 3                         | 4.05             | 7.86            |
| 19A9            | Chigger Creek A9            | 1.05                    | 2.50                  | 3                         | 3.90             | 7.57            |
| 19A10           | Chigger Creek A10           | 0.20                    | 1.15                  | 3                         | 2.84             | 5.50            |
| 19A11           | Chigger Creek A11           | 0.43                    | 1.23                  | 3                         | 2.91             | 5.66            |
| 19A12           | Chigger Creek A12           | 3.54                    | 6.10                  | 5                         | 4.14             | 8.04            |
| 20              | SM 17.04 to SM 13.52        | 4.15                    | 3.83                  | 8                         | 2.58             | 5.02            |

\*Stream Mile designations refer to the original Corps model.

TABLE 1 (con't)  
SUBAREA CHARACTERISTICS

| <u>Location</u> | <u>Subarea Description*</u> | <u>Area (Sq. Miles)</u> | <u>Length (Miles)</u> | <u>Percent Impervious</u> | <u>Tc (Hrs.)</u> | <u>R (Hrs.)</u> |
|-----------------|-----------------------------|-------------------------|-----------------------|---------------------------|------------------|-----------------|
| 21A1            | Cowart Creek A1             | 7.06                    | 2.75                  | 4                         | 3.40             | 6.60            |
| 21A2            | Cowart Creek A2             | 3.82                    | 1.88                  | 4                         | 2.93             | 6.90            |
| 21A3            | Cowart Creek A3             | 2.62                    | 2.36                  | 3                         | 3.80             | 7.38            |
| 21A4            | Cowart Creek A4             | 7.55                    | 7.35                  | 10                        | 2.95             | 5.72            |
| 22              | SM 13.53 to SM 9.88         | 4.17                    | 4.27                  | 4                         | 4.10             | 7.95            |
| 23              | Magnolia Bayou              | 4.09                    | 4.95                  | 3                         | 5.17             | 10.02           |
| 24              | Trib. on S at SM 11.0       | 3.06                    | 5.48                  | 4                         | 4.53             | 8.78            |
| 25              | Trib. on N at SM 9.8        | 4.25                    | 5.17                  | 4                         | 4.41             | 8.57            |
| 26              | SM 9.88 to SM 6.02          | 6.07                    | 5.00                  | 15                        | 1.98             | 3.83            |
| 27              | Trib. on N at SM 6.4        | 7.17                    | 7.20                  | 12                        | 2.62             | 5.09            |
| 28              | Trib. on S at SM 5.3        | 2.80                    | 2.48                  | 9                         | 2.01             | 3.89            |
| 29              | SM 6.02 to SM 3.43          | 2.60                    | 2.61                  | 15                        | 1.51             | 2.92            |
| 30              | Upper Portion Lake          | 1.13                    | -                     | -                         | -                | -               |
| 31A1            | Middle Bayou A1             | 7.46                    | 5.02                  | 12                        | 2.26             | 4.39            |
| 31A2            | Middle Bayou A2             | 2.88                    | 4.55                  | 3                         | 4.98             | 9.66            |
| 31A3            | Middle Bayou A3             | 2.47                    | 4.37                  | 3                         | 4.90             | 9.51            |
| 31A4            | Middle Bayou A4             | 8.33                    | 5.50                  | 7                         | 3.23             | 6.28            |
| 31A5            | Middle Bayou A5             | 4.94                    | 6.64                  | 3                         | 5.84             | 11.32           |
| 31A6            | Middle Bayou A6             | 2.95                    | 3.67                  | 3                         | 4.58             | 8.88            |
| 31A7            | Middle Bayou A7             | 10.57                   | 5.05                  | 4                         | 4.39             | 8.53            |
| 31A8            | Middle Bayou A8             | 6.16                    | 5.40                  | 15                        | 2.04             | 3.95            |
| 31A9            | Middle Bayou A9             | 4.50                    | 3.70                  | 4                         | 3.85             | 7.48            |
| 31A10           | Middle Bayou A10            | 3.92                    | 4.45                  | 4                         | 4.16             | 8.09            |
| 31A11           | Middle Bayou A11            | 4.53                    | 4.80                  | 5                         | 3.76             | 7.30            |
| 32A1            | Taylors Bayou A1            | 0.74                    | 1.85                  | 18                        | 1.14             | 2.21            |
| 32A2            | Taylors Bayou A2            | 1.46                    | 2.75                  | 3                         | 4.07             | 7.91            |
| 32A3            | Taylors Bayou A3            | 1.19                    | 2.24                  | 10                        | 1.80             | 3.51            |
| 32A4            | Taylors Bayou A4            | 1.90                    | 4.20                  | 3                         | 4.83             | 9.37            |
| 32A5            | Taylors Bayou A5            | 4.18                    | 5.00                  | 12                        | 2.26             | 4.38            |
| 32A6            | Taylors Bayou A6            | 2.37                    | 2.68                  | 5                         | 2.96             | 5.73            |
| 32A7            | Taylors Bayou A7            | 1.58                    | 2.05                  | 3                         | 3.59             | 6.98            |
| 32A8            | Taylors Bayou A8            | 2.41                    | 2.70                  | 16                        | 1.48             | 2.86            |
| 33              | Trib. at SM 2.1             | 1.42                    | 2.20                  | 5                         | 3.75             | 7.27            |
| 34              | Trib. at SM 1.5             | 3.98                    | 2.90                  | 4                         | 1.91             | 3.72            |
| 35              | SM 3.43 to SM 0.0           | 4.35                    | 4.66                  | 15                        | 3.49             | 6.78            |
| 36              | Lower Portion Lake          | 1.96                    | -                     | -                         | -                | -               |

\*Stream Mile designations refer to the original Corps model.

TABLE 2

SUMMARY OF DISCHARGES  
EXISTING WATERSHED CONDITIONS  
10-YEAR FREQUENCY FLOOD FLOWS

| <u>Routing Node</u> | <u>Drainage Area<sup>1</sup><br/>(Sq. Miles)</u> | Flood Flows (CFS)       |             |
|---------------------|--|-------------------------|-------------|
|                     |  | <u>1981<sup>2</sup></u> | <u>1984</u> |
| 1                   | 268.8  | 24,562                  | 27,926      |
| 2                   | 174.6  | 14,143                  | 16,268      |
| 3                   | 139.3  | 13,700                  | 15,029      |
| 4                   | 97.8   | 9,344                   | 12,618      |
| 5                   | 77.6   | 7,436                   | 10,669      |
| 6                   | 56.9   | 5,900                   | 6,111       |
| 7                   | 38.8   | 3,513                   | 4,451       |
| 8                   | 29.5   | 3,359                   | 3,959       |

1 Total drainage area calculated upstream of routing node.

2 Flood flows obtained from Appendix IV "Clear Creek, Texas, Flood Control, Preconstruction Authorization Planning Report", Department of Army, Galveston District, Corps of Engineers, Galveston, Texas, May 1982.

TABLE 3  
EXISTING WATERSHED CONDITIONS  
CROSS SECTION DESIGNATIONS  
BRIDGES

| <u>Location</u>                      | <u>Stream Mile Designations</u> |                |
|--------------------------------------|---------------------------------|----------------|
|                                      | <u>Original</u>                 | <u>Revised</u> |
| S.H. 146                             | 0.400                           | 0.388          |
| Southern Pacific Railroad            | 0.492                           | 0.464          |
| S.H. 270                             | 6.565                           | 6.788          |
| Galveston Houston Henderson Railroad | 8.239                           | 8.339          |
| Northbound S.H. 3                    | 8.259                           | 8.389          |
| Southbound S.H. 3                    | 8.269                           | 8.401          |
| I.H. 45 Northbound Access            | 9.922                           | 10.212         |
| I.H. 45                              | 9.950                           | 10.241         |
| I.H. 45 Southbound Access            | 9.963                           | 10.254         |
| F.M. 528                             | 16.364                          | 16.900         |
| F.M. 2358                            | 17.263                          | 17.938         |
| F.M. 2351                            | 20.463                          | 20.366         |
| Choate Road                          | 25.896                          | 26.331         |
| Country Club Road                    | 29.192                          | 29.980         |
| S.H. 35                              | 34.195                          | 34.987         |

TABLE 4  
FUTURE WATERSHED CONDITIONS  
SUBAREA CHARACTERISTICS

| <u>Location</u> | <u>Subarea Description*</u> | <u>Area (Sq. Miles)</u> | <u>Tc (Hrs.)</u> | <u>R (Hrs.)</u> |
|-----------------|-----------------------------|-------------------------|------------------|-----------------|
| 1               | Above SM 45.31              | 4.04                    | 1.46             | 2.84            |
| 2               | SM 45.31 to SM 44.12        | 3.27                    | 1.30             | 2.51            |
| 3               | SM 44.12 to SM 42.49        | 8.33                    | 1.57             | 3.04            |
| 4               | SM 42.49 to SM 40.55        | 6.93                    | 1.45             | 2.80            |
| 5               | SM 40.55 to SM 38.88        | 6.95                    | 1.45             | 2.82            |
| 6               | SM 38.88 to SM 36.61        | 5.87                    | 1.48             | 2.87            |
| 7               | SM 36.61 to SM 35.18        | 3.33                    | 1.45             | 2.83            |
| 8               | SM 35.18 to SM 34.22        | 3.71                    | 1.15             | 2.23            |
| 9               | SM 34.22 to SM 33.17        | 3.03                    | 0.92             | 1.80            |
| 10              | SM 33.17 to SM 32.49        | 1.23                    | 1.31             | 2.54            |
| 11              | SM 32.49 to SM 31.63        | 1.61                    | 1.46             | 2.83            |
| 12              | SM 31.63 to SM 29.98        | 4.05                    | 1.07             | 2.09            |
| 13              | SM 29.98 to SM 23.20        | 4.53                    | 1.40             | 2.71            |
| 14              | Trib. at SM 23.20           | 8.33                    | 1.41             | 2.73            |
| 15A1            | Turkey Creek A1             | 4.23                    | 1.07             | 2.08            |
| 15A2            | Turkey Creek A2             | 2.15                    | 1.29             | 2.51            |
| 15A3            | Turkey Creek A3             | 2.60                    | 1.37             | 2.67            |
| 15A4            | Turkey Creek A4             | 1.39                    | 1.27             | 2.46            |
| 16              | SM 23.20 to SM 19.55        | 1.98                    | 1.63             | 3.15            |
| 17A1            | Marys Creek A1              | 3.47                    | 1.26             | 2.45            |
| 17A2            | Marys Creek A2              | 3.88                    | 1.35             | 2.61            |
| 17A3            | Marys Creek A3              | 2.90                    | 1.31             | 2.53            |
| 17A4            | Marys Creek A4              | 2.22                    | 1.35             | 2.62            |
| 17A5            | Marys Creek A5              | 4.92                    | 1.71             | 3.31            |
| 18              | SM 19.55 to SM 17.04        | 2.82                    | 1.12             | 2.18            |
| 19A1            | Chigger Creek A1            | 2.48                    | 1.35             | 2.61            |
| 19A2            | Chigger Creek A2            | 1.07                    | 0.97             | 1.88            |
| 19A3            | Chigger Creek A3            | 1.12                    | 1.34             | 2.61            |
| 19A4            | Chigger Creek A4            | 1.38                    | 1.25             | 2.42            |
| 19A5            | Chigger Creek A5            | 0.66                    | 1.07             | 2.08            |
| 19A6            | Chigger Creek A6            | 1.19                    | 1.32             | 2.55            |
| 19A7            | Chigger Creek A7            | 0.63                    | 1.26             | 2.45            |
| 19A8            | Chigger Creek A8            | 1.94                    | 2.30             | 2.52            |
| 19A9            | Chigger Creek A9            | 1.05                    | 1.25             | 2.43            |
| 19A10           | Chigger Creek A10           | 0.20                    | 0.91             | 1.76            |
| 19A11           | Chigger Creek A11           | 0.43                    | 0.93             | 1.82            |
| 19A12           | Chigger Creek A12           | 3.54                    | 1.80             | 3.50            |
| 20              | SM 17.04 to SM 13.52        | 4.15                    | 1.27             | 2.47            |

\*Stream mile designation refers to the original Corps model.

TABLE 4 (con't)  
FUTURE WATERSHED CONDITIONS  
SUBAREA CHARACTERISTICS

| <u>Location</u> | <u>Subarea Description*</u> | <u>Area (Sq. Miles)</u> | <u>Tc (Hrs.)</u> | <u>R (Hrs.)</u> |
|-----------------|-----------------------------|-------------------------|------------------|-----------------|
| 21A1            | Cowart Creek A1             | 7.06                    | 1.30             | 2.52            |
| 21A2            | Cowart Creek A2             | 3.82                    | 1.11             | 2.16            |
| 21A3            | Cowart Creek A3             | 2.62                    | 1.77             | 2.37            |
| 21A4            | Cowart Creek A4             | 7.55                    | 1.22             | 2.37            |
| 22              | SM 13.53 to SM 9.88         | 4.17                    | 1.56             | 3.02            |
| 23              | Magnolia Bayou              | 4.09                    | 1.66             | 3.21            |
| 24              | Trib. on S at SM 11.0       | 3.06                    | 1.73             | 3.35            |
| 25              | Trib. on N at SM 9.8        | 4.25                    | 1.69             | 3.27            |
| 26              | SM 9.88 to SM 6.02          | 6.07                    | 1.23             | 2.39            |
| 27              | Trib. on N at SM 6.4        | 7.17                    | 1.43             | 2.77            |
| 28              | Trib. on S at SM 5.3        | 2.80                    | 0.97             | 1.90            |
| 29              | SM 6.02 to SM 3.43          | 2.60                    | 0.94             | 1.83            |
| 30              | Upper Portion Lake          | 1.13                    | -                | -               |
| 31A1            | Middle Bayou A1             | 7.46                    | 1.23             | 2.39            |
| 31A2            | Middle Bayou A2             | 2.88                    | 1.60             | 3.10            |
| 31A3            | Middle Bayou A3             | 2.47                    | 1.57             | 3.05            |
| 31A4            | Middle Bayou A4             | 8.33                    | 1.48             | 2.86            |
| 31A5            | Middle Bayou A5             | 4.94                    | 1.87             | 3.62            |
| 31A6            | Middle Bayou A6             | 2.95                    | 1.46             | 2.84            |
| 31A7            | Middle Bayou A7             | 10.57                   | 1.67             | 3.24            |
| 31A8            | Middle Bayou A8             | 6.16                    | 1.27             | 2.46            |
| 31A9            | Middle Bayou A9             | 4.50                    | 1.47             | 2.85            |
| 31A10           | Middle Bayou A10            | 3.92                    | 1.58             | 3.08            |
| 31A11           | Middle Bayou A11            | 4.53                    | 1.64             | 3.17            |
| 32A1            | Taylors Bayou A1            | 0.74                    | 0.81             | 1.59            |
| 32A2            | Taylors Bayou A2            | 1.46                    | 1.30             | 2.52            |
| 32A3            | Taylors Bayou A3            | 1.19                    | 0.93             | 1.82            |
| 32A4            | Taylors Bayou A4            | 1.90                    | 1.55             | 3.00            |
| 32A5            | Taylors Bayou A5            | 4.18                    | 1.23             | 2.39            |
| 32A6            | Taylors Bayou A6            | 2.37                    | 1.29             | 2.49            |
| 32A7            | Taylors Bayou A7            | 1.58                    | 1.15             | 2.24            |
| 32A8            | Taylors Bayou A8            | 2.41                    | 0.96             | 1.85            |
| 33              | Trib. at SM 2.1             | 1.42                    | 1.19             | 2.30            |
| 34              | Trib. at SM 1.5             | 3.98                    | 1.19             | 2.32            |
| 35              | SM 3.43 to SM 0.0           | 4.35                    | 1.33             | 2.58            |
| 36              | Lower Portion Lake          | 1.96                    | -                | -               |

\*Stream mile designation refers to the original Corps model.

TABLE 5  
COMPARISON OF 10-YEAR FREQUENCY FLOOD FLOWS

| <u>Routing Node</u> | <u>Existing Watershed Conditions</u> |                                    | <u>Future Watershed Conditions</u> |
|---------------------|--------------------------------------|------------------------------------|------------------------------------|
|                     | <u>Without Proposed Improvements</u> | <u>With Proposed Improvements*</u> | <u>With Proposed Improvements*</u> |
| 1                   | 27,926                               | 30,915                             | 33,029                             |
| 2                   | 16,268                               | 17,938                             | 19,088                             |
| 3                   | 15,029                               | 15,475                             | 16,863                             |
| 4                   | 12,618                               | 12,696                             | 13,466                             |
| 5                   | 10,669                               | 10,669                             | 11,229                             |
| 6                   | 6,111                                | 6,111                              | 6,657                              |
| 7                   | 4,451                                | 4,451                              | 6,130                              |
| 8                   | 3,959                                | 3,959                              | 6,130                              |

\* Includes the Safety Valve Plan, downstream improvements and construction of the second outlet from Clear Lake to Galveston Bay.

TABLE 6

COMPARISON OF EXISTING AND IMPROVED  
CROSS SECTION DESIGNATION  
BRIDGES

| <u>Location</u>                      | <u>Existing Condition<br/>Stream Mile</u> | <u>Improved Condition<br/>Stream Mile</u> |
|--------------------------------------|---|---|
| S.H. 146                             | 0.388                                     | 0.421                                     |
| Southern Pacific Railroad            | 0.464                                     | 0.482                                     |
| S.H. 270                             | 6.788                                     | 6.408                                     |
| Galveston Houston Henderson Railroad | 8.339                                     | 7.959                                     |
| Northbound S.H. 3                    | 8.389                                     | 8.009                                     |
| Southbound S.H. 3                    | 8.401                                     | 8.020                                     |
| I.H. 45 Northbound Access            | 10.212                                    | 9.676                                     |
| I.H. 45                              | 10.241                                    | 9.704                                     |
| I.H. 45 Southbound Access            | 10.254                                    | 9.718                                     |
| F.M. 528                             | 16.900                                    | 14.681                                    |
| F.M. 2358                            | 17.938                                    | 15.718                                    |
| F.M. 2351                            | 20.366                                    | 18.146                                    |
| Choate Road                          | 26.331                                    | 24.111                                    |
| Country Club Road                    | 29.980                                    | 27.711                                    |
| S.H. 35                              | 34.987                                    | 32.717                                    |

TABLE 7  
PROPOSED IMPROVEMENTS

| <u>Proposed Improvement</u> | <u>Location*</u>   | <u>Proposed Improvement</u>   | <u>Required Right-of-Way**</u> |
|-----------------------------|--|---|--------------------------------|
| SECOND OUTLET <sup>+</sup>  | SM 0.00 to SM 0.80                                       | 140' Bottom Width<br>Trapezoidal Channel  | 18 acres                       |
|                             | SM 0.250<br>SM 0.421<br>SM 0.482                         | Toddville Road Bridge<br>S.H. 146 Bridge<br>Southern Pacific<br>Railroad Bridge   |                                |
| DOWNTSTREAM IMPROVEMENTS    | SM 6.408 to SM 8.009                                     | 40' Bottom Width<br>Trapezoidal Channel   | 43 acres                       |
|                             | SM 7.959   | Galveston, Houston,<br>Henderson Railroad Bridge  |                                |
| SAFETY VALVE PLAN           | SM 8.009 to SM 10.218                                    | 115' Bottom Width<br>Trapezoidal Channel  | 87 acres                       |
|                             | SM 8.009<br>SM 8.020<br>SM 9.676<br>SM 9.704<br>SM 9.718 | Northbound S.H. 3 Bridge<br>Southbound S.H. 3 Bridge<br>I.H. 45 Northbound Access<br>I.H. 45<br>I.H. 45 Southbound Access |                                |
|                             | SM 10.218 to SM 14.681                                   | 130' Bottom Width<br>Trapezoidal Channel  | 187 acres                      |

\*Stream miles refer to improved condition cross section designation.

\*\*Excludes disposal sites and environmental mitigation.

+Improvements to be constructed by the Harris County Flood Control District.

TABLE 8  
DAMAGE ASSESSMENT

| <u>Watershed Condition</u>                     | <u>Damages*</u> | <u>Inundated Structures**</u> | <u>Damage Reduction</u> |
|--|-----------------|-------------------------------|-------------------------|
| Existing Conditions                            | \$5,859,000     | 537                           | --                      |
| Existing Conditions with Proposed Improvements | \$4,142,000     | 288                           | \$1,716,000             |
| Future Conditions with Proposed Improvements   | \$5,222,000     | 358                           | \$ 636,000              |

\*Damages indicated are average annual damages to existing structures only, without consideration of future development.

\*\*Existing structures inundated subject to the occurrence of the 10-year frequency flood.

TABLE 9  
CONSTRUCTION COST ESTIMATE

**SAFETY VALVE PLAN**

|                                       |                     |
|---------------------------------------|---------------------|
| Channel Improvements                  | \$11,493,000        |
| Lands and Damages <sup>(1)(2)</sup>   | 1,481,000           |
| Relocations <sup>(3)</sup>            | 5,175,000           |
| Environmental Measures <sup>(1)</sup> | <u>131,000</u>      |
| <b>TOTAL</b>                          | <b>\$18,280,000</b> |

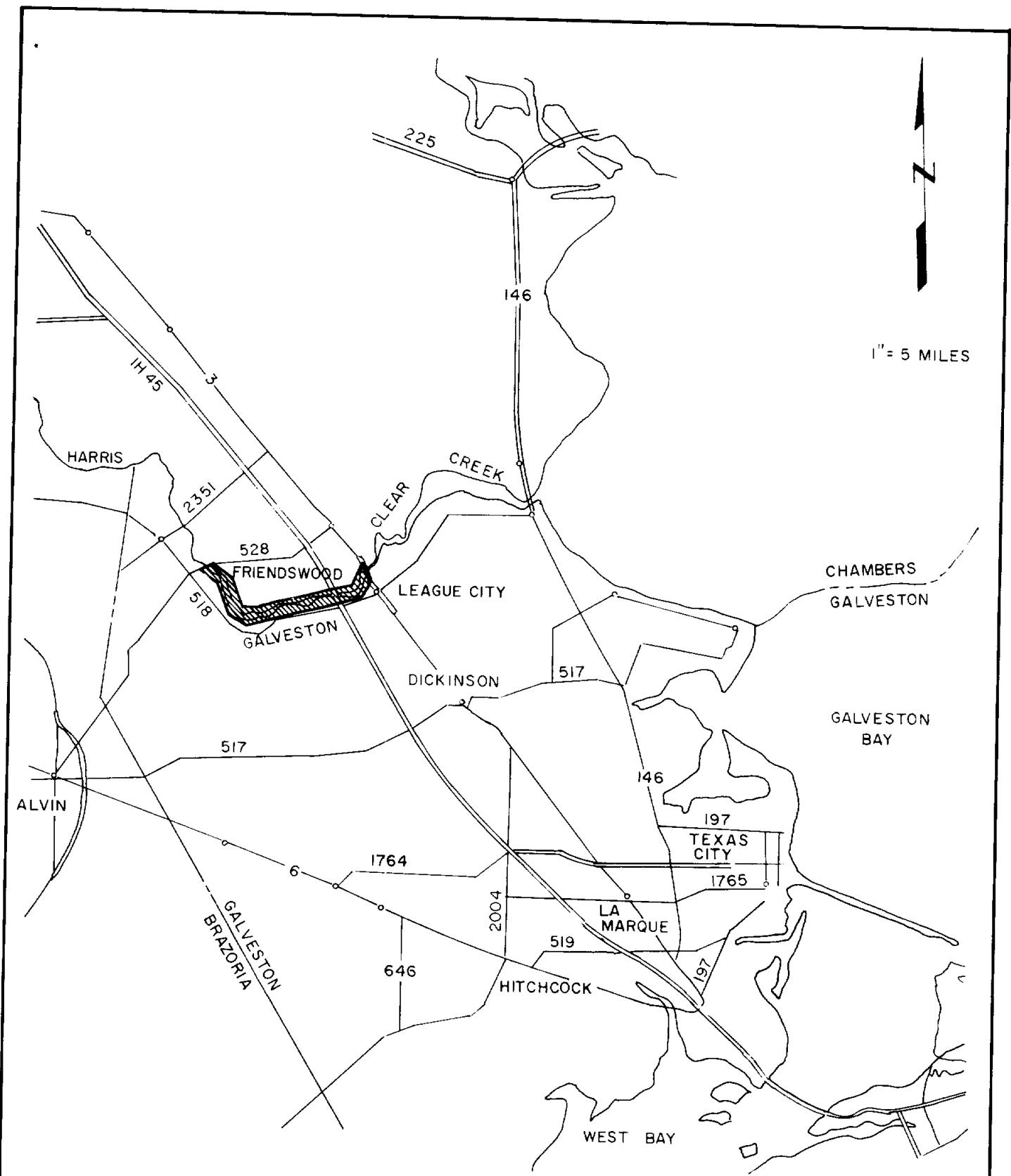
**DOWNSTREAM IMPROVEMENTS**

|                                       |                     |
|---------------------------------------|---------------------|
| Channel Improvements                  | \$ 1,444,000        |
| Lands and Damages <sup>(1)(2)</sup>   | 546,000             |
| Relocations <sup>(3)</sup>            | 904,000             |
| Environmental Measures <sup>(1)</sup> | <u>49,000</u>       |
| <b>TOTAL</b>                          | <b>\$ 2,943,000</b> |

**PROJECT TOTAL<sup>(4)</sup>**

|                                |                         |
|--------------------------------|-------------------------|
| <b>SAFETY VALVE PLAN</b>       | <b>\$18,280,000</b>     |
| <b>DOWNSTREAM IMPROVEMENTS</b> | <b><u>2,943,000</u></b> |
| <b>TOTAL</b>                   | <b>\$21,223,000</b>     |

- (1) Cost estimated as a pro-rata portion of the total federal project costs applicable to the reach of Clear Creek under investigation.
- (2) Includes costs for acquisition of right-of-way for channel improvements, disposal areas and severance cost associated with damage to existing properties.
- (3) Includes construction costs for bridge improvements, pipelines, storm sewer outfalls and other structures requiring relocation.
- (4) Project total excludes the cost of constructing the second outlet being planned by HCFCD. Estimated construction cost of the outlet is approximately \$16,000,000.



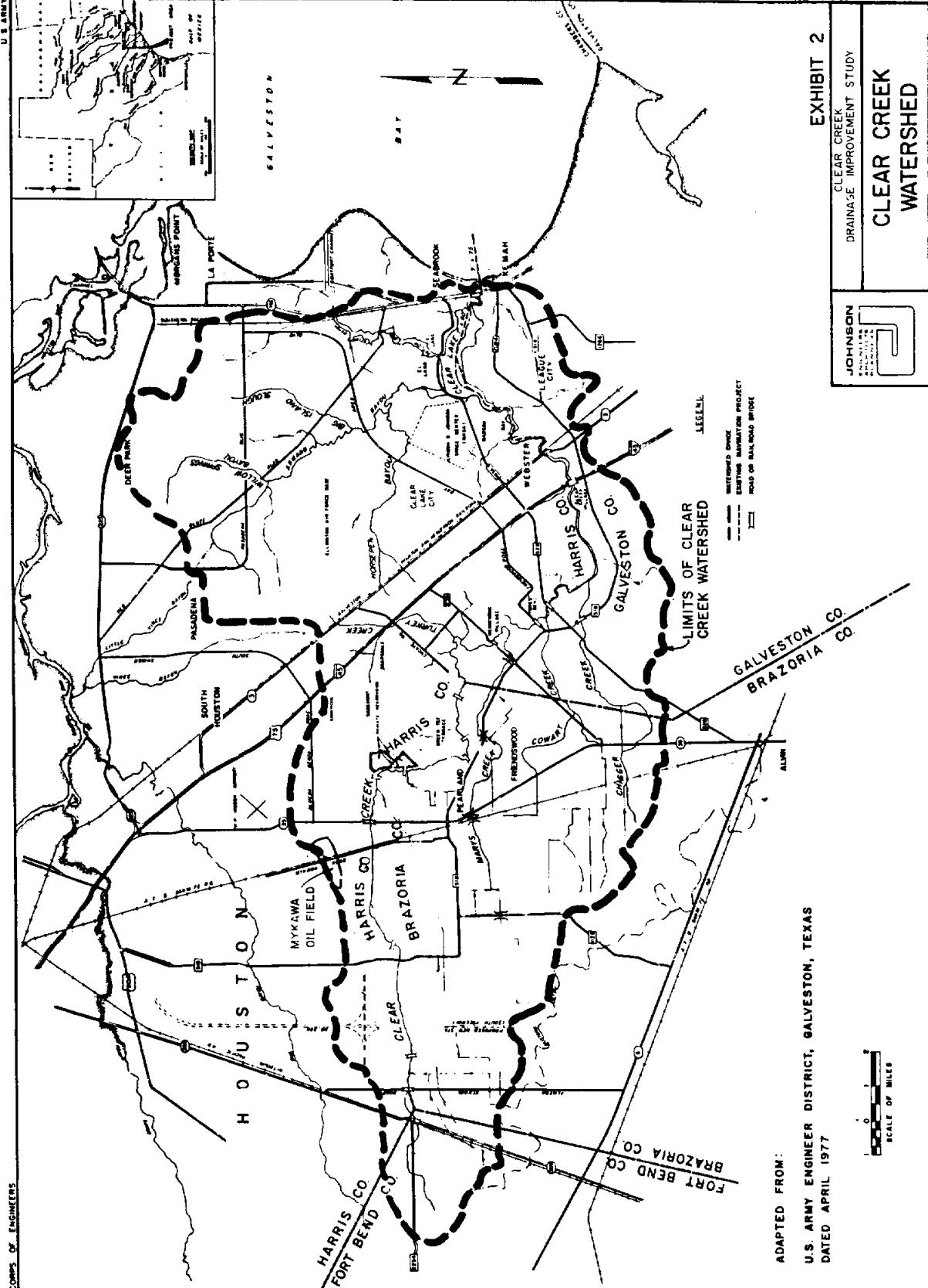
STREAM LIMITS OF STUDY

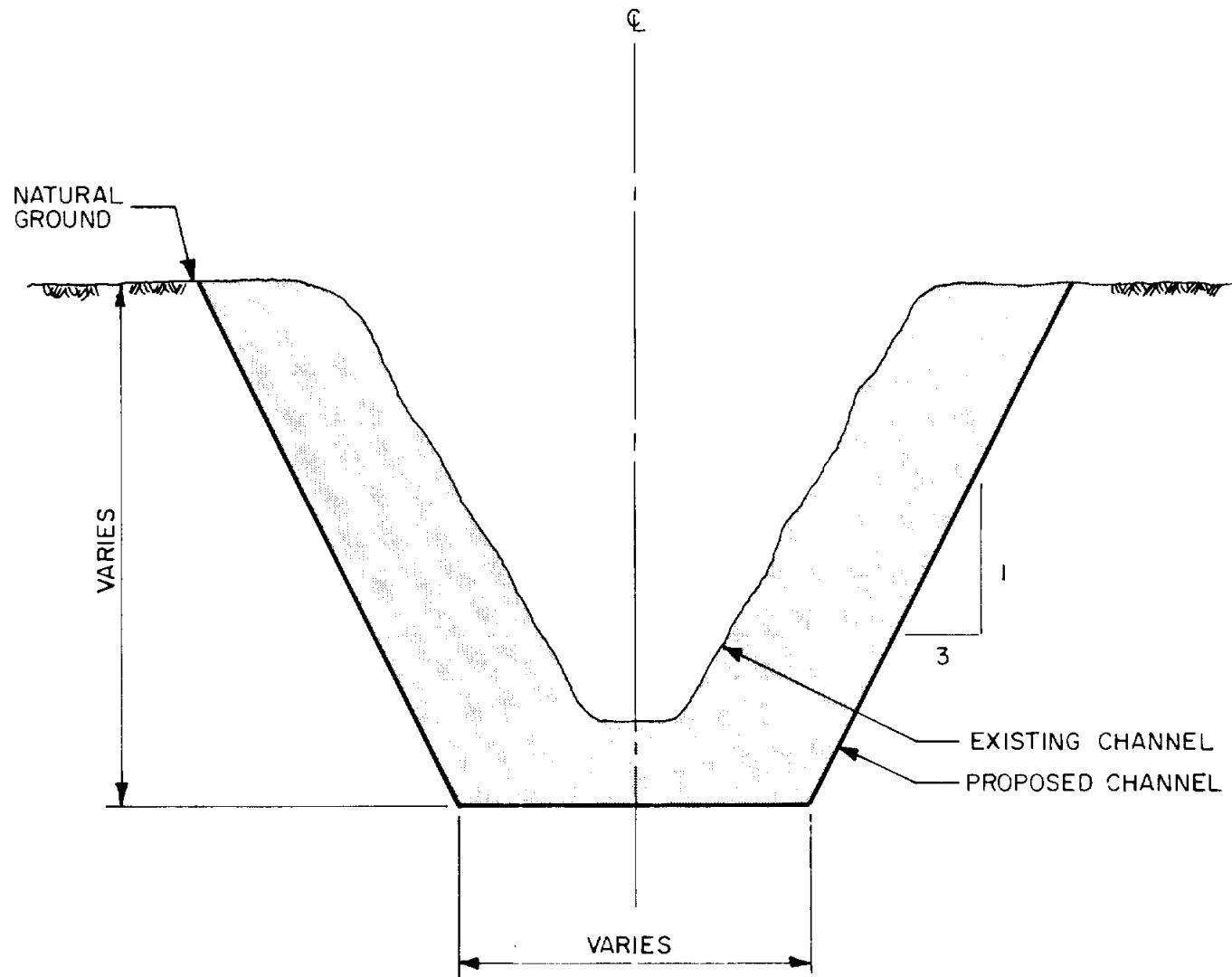
NOTE:

THIS VICINITY MAP IS ADOPTED FROM THE  
TEXAS STATE DEPARTMENT OF HIGHWAYS  
AND PUBLIC TRANSPORTATION OFFICIAL  
HIGHWAY TRAVEL MAP.

EXHIBIT I

|  |   |
|--|---|
| <b>JOHNSON</b><br><small>ENGINEERS ARCHITECTS PLANNERS</small><br> | CLEAR CREEK<br>DRAINAGE IMPROVEMENT STUDY |
| <b>VICINITY MAP</b>  |   |

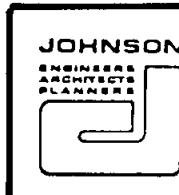




## TYPICAL CHANNEL IMPROVEMENT

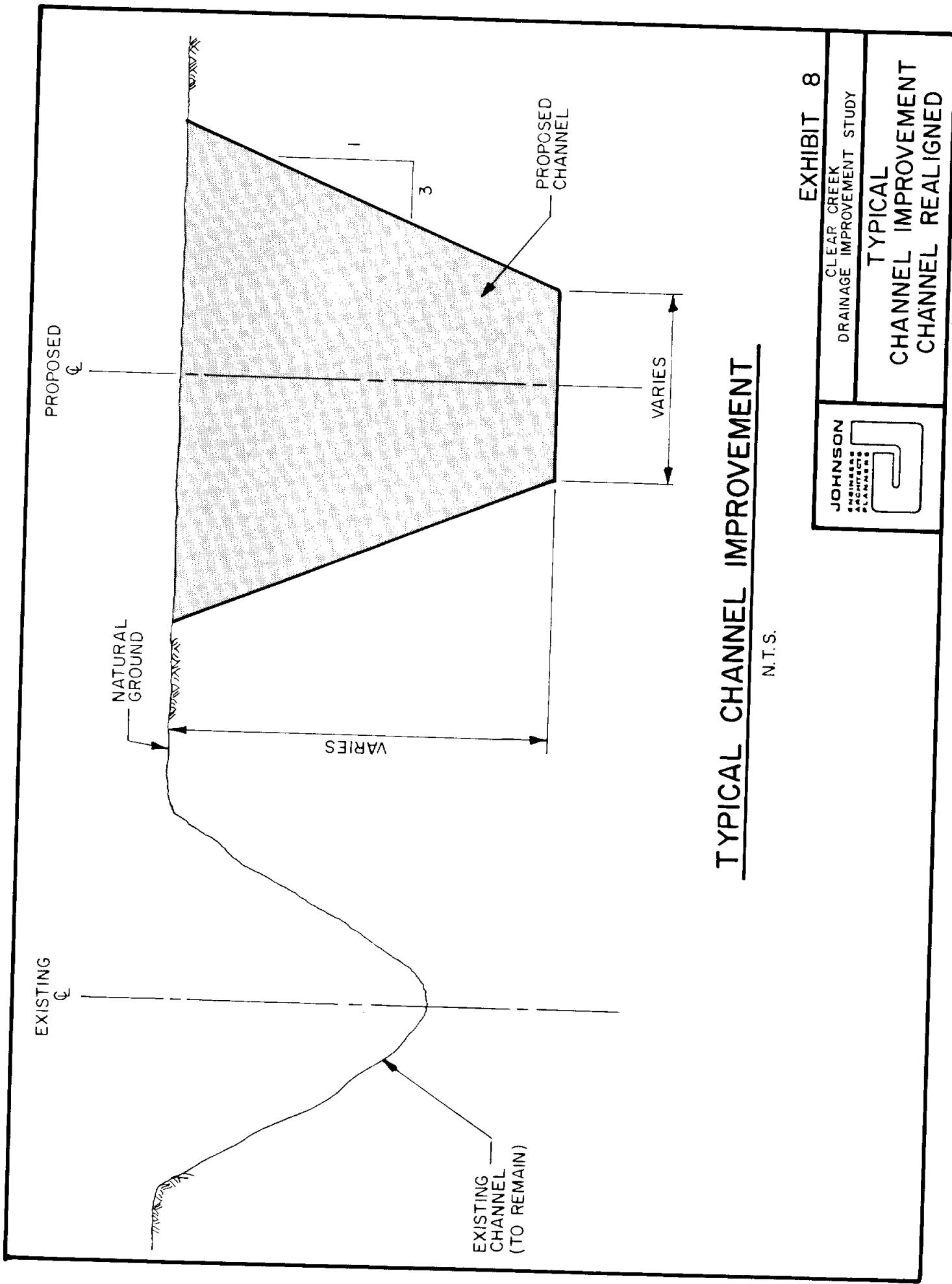
N.T.S.

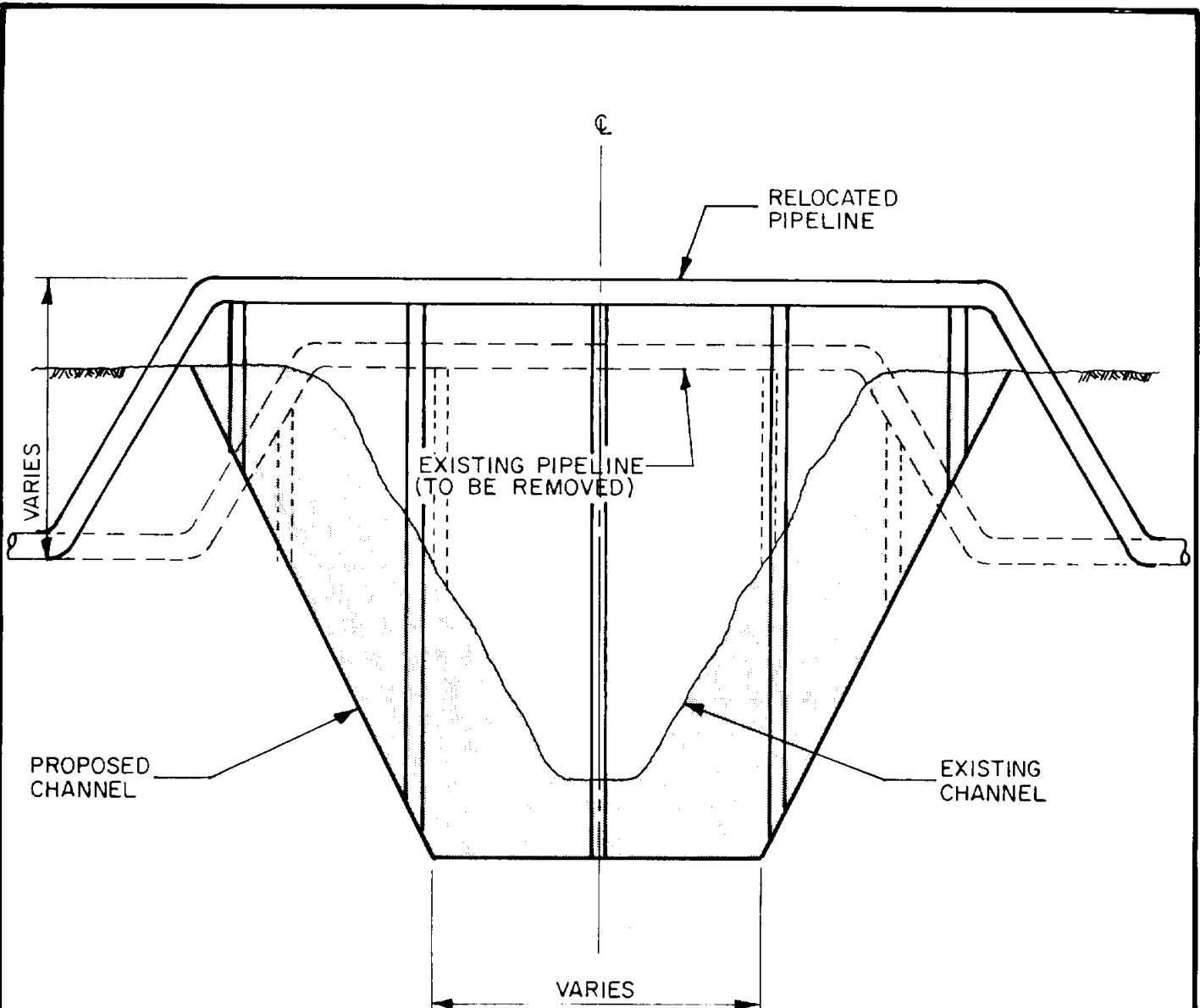
EXHIBIT 7



CLEAR CREEK  
DRAINAGE IMPROVEMENT STUDY

TYPICAL CHANNEL IMPROVEMENT  
EXISTING CENTERLINE MAINTAINED

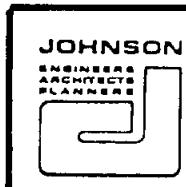




## TYPICAL PIPELINE RELOCATION

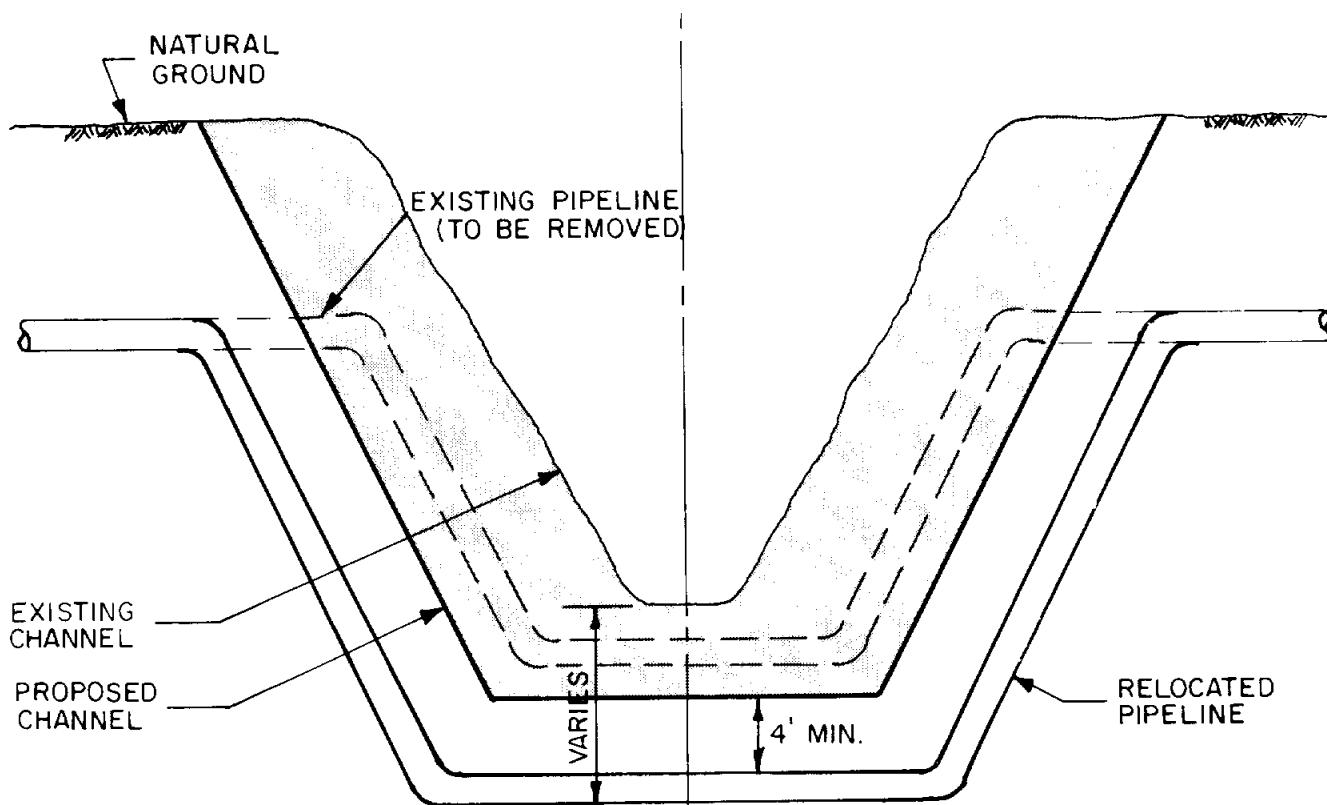
N.T.S.

EXHIBIT 9



CLEAR CREEK  
DRAINAGE IMPROVEMENT STUDY

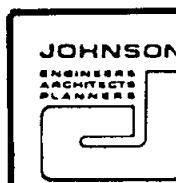
TYPICAL  
PIPELINE RELOCATION  
AERIAL CROSSING



## TYPICAL PIPELINE RELOCATION

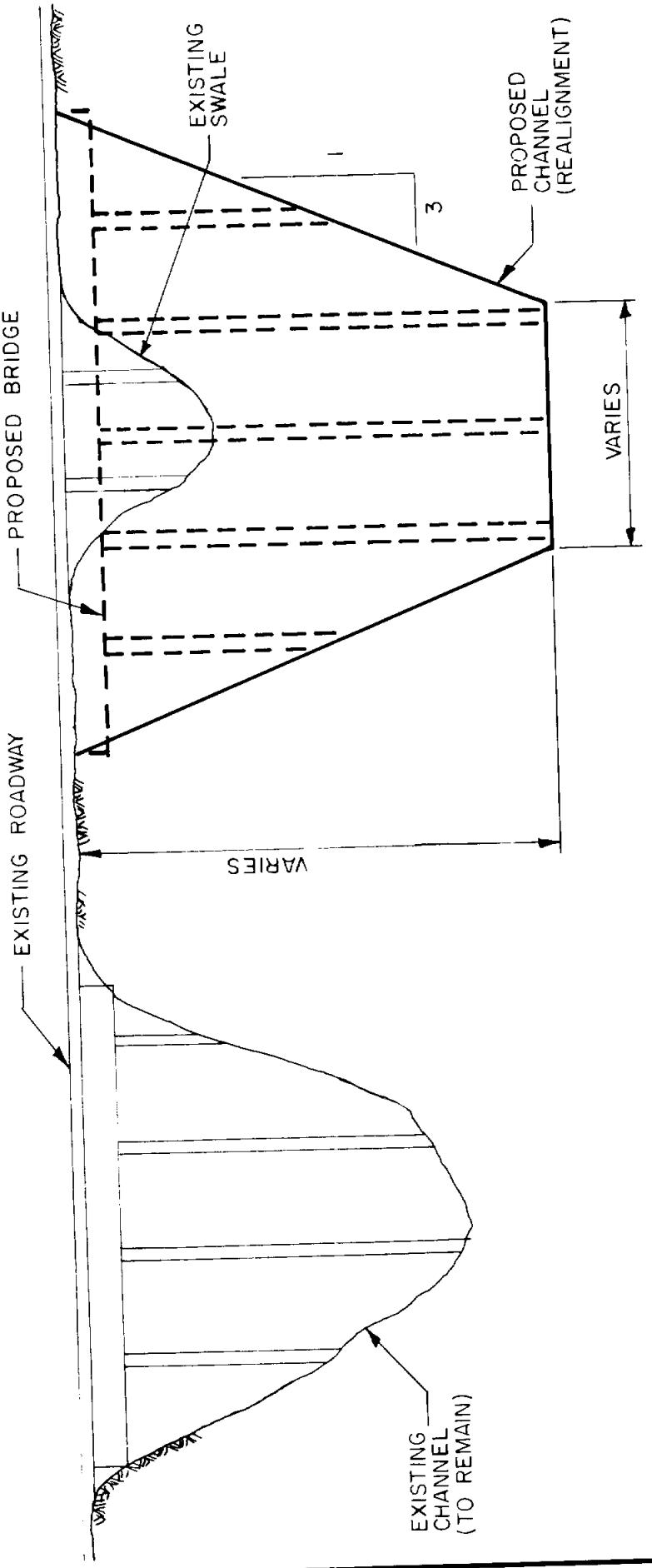
N.T.S.

EXHIBIT 10



CLEAR CREEK  
DRAINAGE IMPROVEMENT STUDY

TYPICAL  
PIPELINE RELOCATION  
BURIED CROSSING



TYPICAL BRIDGE IMPROVEMENT

I-45, S.H. 3

N.T.S.

EXHIBIT II

CLEAR CREEK  
DRAINAGE IMPROVEMENT STUDY

CROSSING PLAN OF  
TYPICAL BRIDGE IMPROVEMENT

JOHNSON  
STRUCTURE

**APPENDIX 1**  
**HEC-1 FLOOD ROUTINGS**

| EXISTING WATERSHED CONDITIONS WITHOUT PROPOSED IMPROVEMENTS |         | RUNOFF SUMMARY |                 |                            |                           | EXISTING WATERSHED CONDITIONS WITHOUT PROPOSED IMPROVEMENTS |                  |                      |
|---|---------|----------------|-----------------|----------------------------|---------------------------|---|------------------|----------------------|
| OPERATION   | STATION | PEAK<br>FLOW   | TIME OF<br>PEAK | AVERAGE FLOW FOR<br>6-HOUR | MAXIMUM PERIOD<br>24-HOUR | BASIN<br>AREA   | MAXIMUM<br>STAGE | TIME OF<br>MAX STAGE |
| HYDROGRAPH AI   | 13.53   | 605.           | 19.50           | 709.                       | 392.                      | 146.  | 2.48             |                      |
| KNOTTED TU  | 10.55   | 191.           | 87.50           | 190.                       | 184.                      | 137.  | 2.48             |                      |
| DIVERSION IN  | 10.55N  | 0.             | 0.50            | 0.                         | 0.                        | 0.  | 2.48             |                      |
| HYDROGRAPH AI   | 10.55   | 191.           | 87.50           | 190.                       | 184.                      | 137.  | 2.48             |                      |
| DIVERSION IN  | 10.55S  | 0.             | 0.50            | 0.                         | 0.                        | 0.  | 2.48             |                      |
| HYDROGRAPH AI   | 10.55   | 191.           | 87.50           | 190.                       | 184.                      | 137.  | 2.48             |                      |
| HYDROGRAPH AI   | 10.55   | 448.           | 18.50           | 373.                       | 179.                      | 63.   | 1.07             |                      |
| 2 COMBINED AI   | 10.55   | 446.           | 18.50           | 372.                       | 195.                      | 156.  | 3.55             |                      |
| KNOTTED TU  | 9.205   | 164.           | 119.00          | 164.                       | 156.                      | 140.  | 3.55             |                      |
| DIVERSION IN  | 9.205   | 56.            | 119.00          | 55.                        | 49.                       | 36.   | 3.55             |                      |
| HYDROGRAPH AI   | 9.205   | 106.           | 119.00          | 108.                       | 107.                      | 104.  | 3.55             |                      |
| HYDROGRAPH AI   | 9.205   | 365.           | 19.50           | 321.                       | 178.                      | 66.   | 1.12             |                      |
| HYDROGRAPH AI   | 9.205   | 605.           | 18.00           | 495.                       | 233.                      | 81.   | 1.38             |                      |
| 3 COMBINED AI   | 9.205   | 999.           | 16.50           | 878.                       | 487.                      | 238.  | 6.05             |                      |
| KNOTTED TU  | 7.515   | 250.           | 92.00           | 250.                       | 245.                      | 213.  | 6.05             |                      |
| DIVERSION IN  | 7.515   | 127.           | 92.00           | 127.                       | 123.                      | 94.   | 6.05             |                      |
| HYDROGRAPH AI   | 7.515   | 123.           | 92.00           | 123.                       | 122.                      | 119.  | 6.05             |                      |
| HYDROGRAPH AI   | 7.515   | 250.           | 16.50           | 216.                       | 109.                      | 39.   | 0.65             |                      |
| HYDROGRAPH AI   | 7.515   | 760.           | 18.50           | 633.                       | 304.                      | 107.  | 1.82             |                      |
| 3 COMBINED AI   | 7.515   | 107.           | 18.50           | 842.                       | 421.                      | 218.  | 8.52             |                      |

|               |        |       |       |       |       |      |       |
|---------------|--------|-------|-------|-------|-------|------|-------|
| ROUTED TU     | 4.675  | 591.  | 29.50 | 545.  | 359.  | 210. | 8.52  |
| DIVERSION IN  | 4.675  | 0.    | 0.50  | 0.    | 0.    | 0.   | 0.52  |
| HYDROGRAPH AI | 4.65   | 591.  | 29.50 | 545.  | 359.  | 210. | 8.52  |
| HYDROGRAPH AI | 4.675  | 273.  | 18.00 | 224.  | 106.  | 37.  | 0.63  |
| HYDROGRAPH AI | 4.675  | 646.  | 19.00 | 568.  | 310.  | 114. | 1.94  |
| HYDROGRAPH AI | 4.675  | 362.  | 19.00 | 315.  | 169.  | 62.  | 1.05  |
| 4 COMPILED AI | 4.675  | 1284. | 19.00 | 1131. | 854.  | 403. | 12.14 |
| HYDROGRAPH AI | 4.675  | 90.   | 18.00 | 74.   | 55.   | 12.  | 0.20  |
| HYDROGRAPH AI | 4.675  | 105.  | 18.00 | 153.  | 72.   | 25.  | 0.43  |
| HYDROGRAPH AI | 4.675  | 1158. | 19.50 | 1018. | 560.  | 207. | 3.54  |
| 4 COMPILED AI | 4.675  | 2681. | 19.00 | 2353. | 1505. | 643. | 16.31 |
| ROUTED TU     | 0.0    | 2378. | 24.50 | 2211. | 1492. | 642. | 16.31 |
| DIVERSION IN  | 0.05   | 0.    | 0.50  | 0.    | 0.    | 0.   | 16.31 |
| HYDROGRAPH AI | 0.0    | 2378. | 24.50 | 2211. | 1492. | 642. | 16.31 |
| DIVERSION IN  | 0.05   | 83.   | 24.50 | 48.   | 12.   | 4.   | 16.31 |
| HYDROGRAPH AI | 0.0    | 2295. | 24.50 | 2163. | 1480. | 638. | 16.31 |
| HYDROGRAPH AI | 45.31  | 1217. | 19.50 | 1085. | 625.  | 236. | 4.04  |
| ROUTED TU     | 1      | 918.  | 29.50 | 818.  | 569.  | 236. | 4.04  |
| HYDROGRAPH AI | 44.12  | 1089. | 19.00 | 954.  | 520.  | 191. | 3.27  |
| 2 COMPILED AI | 45.31  | 1513. | 29.00 | 1172. | 949.  | 426. | 7.31  |
| ROUTED TU     | 44.12  | 1016. | 42.50 | 1002. | 857.  | 425. | 7.31  |
| HYDROGRAPH AI | 42.119 | 2364. | 20.00 | 2130. | 1262. | 485. | 8.33  |
| 2 COMPILED AI | 44.12  | 2373. | 20.00 | 2151. | 1658. | 904. | 15.64 |
| ROUTED TU     | 42.119 | 1930. | 29.00 | 1886. | 1607. | 903. | 15.64 |

|               |        |       |       |       |       |       |       |
|---------------|--------|-------|-------|-------|-------|-------|-------|
| DIVISION 10   | 42.12  | 1.    | 29.00 | 0.    | 0.    | 0.    | 15.64 |
| HYDROGRAPH AI | 42.12  | 1929. | 29.00 | 1885. | 1607. | 903.  | 15.64 |
| HYDROGRAPH AI | 40.55  | 2104. | 19.50 | 1871. | 1072. | 404.  | 6.93  |
| 2 COMBINED AI | 42.119 | 2992. | 26.50 | 2908. | 2407. | 1299. | 22.57 |
| ROUTER TU     | 40.55  | 2951. | 30.00 | 2887. | 2392. | 1299. | 22.57 |
| DIVISION 10   | 40.55  | 0.    | 0.50  | 0.    | 0.    | 0.    | 22.57 |
| HYDROGRAPH AI | 50.55  | 2951. | 30.00 | 2887. | 2392. | 1299. | 22.57 |
| HYDROGRAPH AI | 38.88  | 2428. | 19.00 | 2102. | 1114. | 405.  | 6.95  |
| 2 COMBINED AI | 40.55  | 4051. | 23.50 | 3975. | 3277. | 1694. | 29.52 |
| ROUTER TU     | 38.88  | 3959. | 29.00 | 3898. | 3205. | 1691. | 29.52 |
| DIVISION 10   | 38.88  | 0.    | 0.50  | 0.    | 0.    | 0.    | 29.52 |
| HYDROGRAPH AI | 38.88  | 3959. | 29.00 | 3898. | 3205. | 1691. | 29.52 |
| HYDROGRAPH AI | 36.61  | 2236. | 16.50 | 1897. | 959.  | 343.  | 5.87  |
| 2 COMBINED AI | 38.88  | 4666. | 27.00 | 4540. | 3690. | 2004. | 35.39 |
| ROUTER TU     | 36.61  | 4400. | 34.50 | 4332. | 3661. | 2004. | 35.39 |
| DIVISION 10   | 36.61  | 0.    | 0.50  | 0.    | 0.    | 0.    | 35.39 |
| HYDROGRAPH AI | 36.61  | 4400. | 34.50 | 4332. | 3661. | 2004. | 35.39 |
| HYDROGRAPH AI | 35.18  | 1291. | 16.50 | 1091. | 547.  | 195.  | 3.53  |
| 2 COMBINED AI | 36.61  | 4535. | 34.00 | 4466. | 3872. | 2184. | 38.72 |
| ROUTER TU     | 35.18  | 4451. | 37.00 | 4393. | 3855. | 2183. | 38.72 |
| DIVISION 10   | 35.18  | 0.    | 0.50  | 0.    | 0.    | 0.    | 38.72 |
| HYDROGRAPH AI | 35.18  | 4451. | 37.00 | 4393. | 3855. | 2183. | 38.72 |
| HYDROGRAPH AI | 34.22  | 1659. | 18.00 | 1347. | 625.  | 217.  | 5.71  |
| 2 COMBINED AI | 35.18  | 4505. | 36.50 | 4451. | 4091. | 2383. | 42.43 |

|               |       |       |       |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|
| KNOTEN TU     | 34.22 | 4426. | 40.00 | 4382. | 4058. | 2383. | 42.43 |
| DIVISION IN   | 34.22 | 0.    | 0.50  | 0.    | 0.    | 0.    | 42.43 |
| HYDROGRAPH AI | 34.22 | 4426. | 40.00 | 4382. | 4058. | 2383. | 42.43 |
| HYDROGRAPH AI | 33.17 | 2104. | 17.00 | 1425. | 531.  | 178.  | 3.03  |
| 2 CONFINED AI | 34.22 | 4536. | 18.50 | 4382. | 4163. | 2550. | 45.46 |
| KNOTEN TU     | 33.17 | 4470. | 19.00 | 4368. | 4152. | 2543. | 45.46 |
| DIVISION IN   | 33.17 | 0.    | 0.50  | 0.    | 0.    | 0.    | 45.46 |
| HYDROGRAPH AI | 33.17 | 4470. | 19.00 | 4368. | 4152. | 2543. | 45.46 |
| HYDROGRAPH AI | 32.49 | 466.  | 18.50 | 398.  | 202.  | 72.   | 1.23  |
| 2 CONFINED AI | 33.17 | 4917. | 19.00 | 4677. | 4316. | 2609. | 46.69 |
| KNOTEN TU     | 32.49 | 4733. | 20.00 | 4617. | 4301. | 2609. | 46.69 |
| DIVISION IN   | 32.49 | 0.    | 0.50  | 0.    | 0.    | 0.    | 46.69 |
| HYDROGRAPH AI | 32.49 | 4733. | 20.00 | 4617. | 4301. | 2609. | 46.69 |
| HYDROGRAPH AI | 31.63 | 564.  | 19.00 | 488.  | 260.  | 95.   | 1.61  |
| 2 CONFINED AI | 32.49 | 5248. | 20.00 | 5057. | 4510. | 2609. | 46.69 |
| KNOTEN TU     | 31.63 | 5085. | 21.50 | 4991. | 4493. | 2609. | 48.30 |
| DIVISION IN   | 31.63 | 65.   | 21.50 | 61.   | 39.   | 16.   | 48.30 |
| HYDROGRAPH AI | 31.63 | 5021. | 21.50 | 4931. | 4454. | 2680. | 48.30 |
| HYDROGRAPH AI | 29.98 | 2161. | 17.50 | 1650. | 697.  | 237.  | 4.05  |
| 2 CONFINED AI | 31.63 | 6294. | 20.00 | 6004. | 4906. | 2895. | 52.35 |
| KNOTEN TU     | 29.98 | 5901. | 23.50 | 5775. | 4867. | 2894. | 52.35 |
| DIVISION IN   | 29.98 | 176.  | 23.50 | 166.  | 95.   | 38.   | 52.35 |
| HYDROGRAPH AI | 29.98 | 5723. | 23.50 | 5609. | 4772. | 2856. | 52.35 |
| HYDROGRAPH AI | 23.20 | 1974. | 18.00 | 1619. | 760.  | 265.  | 4.53  |

|               |        |       |       |       |       |       |       |
|---------------|--------|-------|-------|-------|-------|-------|-------|
| 2 COMBINED AI | 29.98  | 6800. | 21.50 | 6677. | 5348. | 3098. | 56.88 |
| ROUTED TU     | 23.20  | 6502. | 28.50 | 6370. | 5249. | 3094. | 56.88 |
| VERSION 10    | 23.20R | 386.  | 28.50 | 361.  | 200.  | 80.   | 56.88 |
| HYDROGRAPH AI | 23.20  | 6117. | 28.50 | 6008. | 5049. | 3014. | 56.88 |
| VERSION 10    | 23.20L | 0.    | 0.50  | 0.    | 0.    | 0.    | 56.88 |
| HYDROGRAPH AI | 23.20  | 6117. | 28.50 | 6008. | 5049. | 3014. | 56.88 |
| HYDROGRAPH AI | 23.20  | 4308. | 17.50 | 3331. | 1425. | 485.  | 8.33  |
| HYDROGRAPH AI | 23.20  | 0.    | 0.50  | 0.    | 0.    | 0.    | 46.69 |
| HYDROGRAPH AI | 23.20  | 65.   | 21.50 | 61.   | 39.   | 16.   | 48.30 |
| HYDROGRAPH AI | 23.20  | 178.  | 23.50 | 166.  | 95.   | 38.   | 52.35 |
| 4 COMBINED AI | 23.20  | 4320. | 17.50 | 3446. | 1542. | 545.  | 8.33  |
| HYDROGRAPH AI | 23.20  | 0.    | 0.50  | 0.    | 0.    | 0.    | 56.88 |
| 2 COMBINED AI | 23.20  | 4320. | 17.50 | 3446. | 1542. | 545.  | 8.33  |
| ROUTED TU     | 00     | 2501. | 31.50 | 2413. | 1534. | 545.  | 8.33  |
| VERSION 10    | 01T    | 31.   | 31.50 | 24.   | 6.    | 2.    | 8.33  |
| HYDROGRAPH AI | 00     | 2470. | 31.50 | 2389. | 1528. | 543.  | 8.33  |
| 2 COMBINED AI | 23.20  | 8442. | 29.50 | 8303. | 6292. | 3518. | 65.21 |
| HYDROGRAPH AI | 23.20  | 2407. | 17.50 | 1802. | 733.  | 247.  | 4.23  |
| ROUTED TU     | 3.00   | 1292. | 30.00 | 1240. | 731.  | 247.  | 4.23  |
| HYDROGRAPH AI | 3.00   | 31.   | 31.50 | 24.   | 6.    | 2.    | 8.33  |
| 2 COMBINED AI | 3.00   | 1320. | 30.00 | 1261. | 737.  | 250.  | 4.23  |
| HYDROGRAPH AI | 3.00   | 716.  | 19.00 | 629.  | 343.  | 126.  | 2.15  |
| HYDROGRAPH AI | 00     | 950.  | 19.00 | 817.  | 423.  | 152.  | 2.60  |
| 3 COMBINED AI | 3.00   | 2171. | 19.00 | 2090. | 1493. | 525.  | 8.98  |

|               |       |        |       |        |       |       |       |
|---------------|-------|--------|-------|--------|-------|-------|-------|
| ROUTED TU     | 0.0   | 2069.  | 21.00 | 2044.  | 1491. | 525.  | 8.98  |
| HYDROGRAPH AT | 0.0   | 474.   | 19.00 | 413.   | 223.  | 62.   | 1.39  |
| 2 COMBINED AT | 0.0   | 2311.  | 25.50 | 2274.  | 1707. | 605.  | 10.37 |
| 2 COMBINED AT | 23.20 | 10543. | 29.00 | 10398. | 7782. | 4082. | 75.58 |
| HYDROGRAPH AT | 19.55 | 552.   | 20.00 | 499.   | 300.  | 116.  | 1.98  |
| 2 COMBINED AT | 23.20 | 10809. | 28.50 | 10663. | 8032. | 4169. | 77.56 |
| ROUTED TU     | 19.55 | 10669. | 32.00 | 10526. | 8007. | 4186. | 77.56 |
| HYDROGRAPH AT | 19.55 | 1187.  | 19.00 | 1032.  | 555.  | 203.  | 3.47  |
| ROUTED TU     | 11.53 | 996.   | 26.00 | 921.   | 550.  | 203.  | 3.47  |
| HYDROGRAPH AT | 9.32  | 1595.  | 18.50 | 1331.  | 645.  | 227.  | 3.88  |
| 2 COMBINED AT | 11.53 | 1719.  | 18.50 | 1604.  | 1155. | 428.  | 7.35  |
| ROUTED TU     | 11.53 | 1567.  | 30.50 | 1514.  | 1069. | 428.  | 7.35  |
| HYDROGRAPH AT | 7.73  | 1789.  | 17.00 | 1288.  | 506.  | 170.  | 2.90  |
| 2 COMBINED AT | 9.32  | 1932.  | 17.00 | 1591.  | 1360. | 596.  | 10.25 |
| ROUTED TU     | 7.73  | 1481.  | 39.50 | 1450.  | 1316. | 596.  | 10.25 |
| HYDROGRAPH AT | 5.19  | 915.   | 18.50 | 764.   | 370.  | 130.  | 2.22  |
| 2 COMBINED AT | 7.73  | 1694.  | 25.50 | 1657.  | 1528. | 725.  | 12.47 |
| ROUTED TU     | 5.19  | 1574.  | 36.00 | 1564.  | 1480. | 725.  | 12.47 |
| HYDROGRAPH AT | 0.0   | 2511.  | 18.00 | 1852.  | 834.  | 287.  | 4.92  |
| 2 COMBINED AT | 5.19  | 2948.  | 18.00 | 2599.  | 1961. | 1009. | 17.39 |
| HYDROGRAPH AT | 5.19  | 586.   | 28.50 | 361.   | 200.  | 80.   | 56.88 |
| 2 COMBINED AT | 5.19  | 2948.  | 18.00 | 2617.  | 2153. | 1095. | 17.39 |
| ROUTED TU     | 0.0   | 2537.  | 24.50 | 2391.  | 2063. | 1095. | 17.39 |
| 2 COMBINED AT | 19.55 | 12669. | 32.00 | 12527. | 9898. | 5176. | 94.95 |

|               |       |        |        |        |        |       |        |
|---------------|-------|--------|--------|--------|--------|-------|--------|
| HYDROGRAPH AI | 17.04 | 1512.  | 17.50  | 1153.  | 487.   | 165.  | 2.82   |
| 2 COMBINED AI | 19.55 | 12734. | 31.50  | 12610. | 10043. | 5312. | 91.77  |
| ROUTED TU     | 17.04 | 12618. | 34.50  | 12465. | 10017. | 5308. | 97.77  |
| HYDROGRAPH AT | 17.04 | 2690.  | 18.50  | 2282.  | 1153.  | 412.  | 7.06   |
| HYDROGRAPH AI | 9.10  | 0.     | 0.50   | 0.     | 0.     | 0.    | 2.48   |
| 2 COMBINED AI | 9.10  | 2690.  | 18.50  | 2282.  | 1153.  | 412.  | 7.06   |
| ROUTED TU     | 9.10  | 2170.  | 25.00  | 1991.  | 1113.  | 412.  | 7.06   |
| HYDROGRAPH AT | 7.62  | 1431.  | 18.50  | 1220.  | 622.   | 224.  | 3.82   |
| 2 COMBINED AI | 9.10  | 2914.  | 24.50  | 2690.  | 1652.  | 633.  | 10.88  |
| HYDROGRAPH AT | 9.10  | 56.    | 119.00 | 55.    | 49.    | 36.   | 3.55   |
| 2 COMBINED AI | 9.10  | 2921.  | 24.50  | 2697.  | 1662.  | 657.  | 10.88  |
| ROUTED TU     | 7.62  | 2422.  | 30.00  | 1945.  | 1073.  | 621.  | 10.88  |
| HYDROGRAPH AT | 6.50  | 920.   | 19.00  | 796.   | 422.   | 154.  | 2.62   |
| 2 COMBINED AI | 7.62  | 2691.  | 30.00  | 2155.  | 1181.  | 724.  | 13.50  |
| ROUTED TU     | 6.50  | 2408.  | 33.50  | 2027.  | 1168.  | 706.  | 13.50  |
| HYDROGRAPH AI | 0.0   | 3199.  | 18.00  | 2650.  | 1258.  | 440.  | 7.55   |
| 2 COMBINED AI | 6.50  | 3192.  | 18.00  | 2663.  | 1992.  | 1071. | 21.05  |
| HYDROGRAPH AT | 6.50  | 127.   | 92.00  | 127.   | 123.   | 94.   | 0.05   |
| 3 COMBINED AI | 6.50  | 3192.  | 18.00  | 2663.  | 1992.  | 1113. | 21.05  |
| HYDROGRAPH AT | 6.50  | A3.    | 24.50  | 48.    | 12.    | 4.    | 16.31  |
| 2 COMBINED AT | 6.50  | 3192.  | 18.00  | 2665.  | 2003.  | 1117. | 21.05  |
| ROUTED TU     | 0.0   | 27A2.  | 22.50  | 2504.  | 1974.  | 1113. | 21.05  |
| 2 COMBINED AI | 17.04 | 14160. | 37.00  | 13890. | 11706. | 6340. | 118.82 |

|               |       |        |       |        |        |       |        |
|---------------|-------|--------|-------|--------|--------|-------|--------|
| HYDROGRAPH AT | 13.53 | 1951.  | 18.00 | 1564.  | 704.   | 243.  | 4.15   |
| 2 CONFINED AT | 17.04 | 14214. | 36.50 | 13971. | 11974. | 6540. | 122.97 |
| ROUTED TO     | 13.53 | 14097. | 38.00 | 13921. | 11934. | 6525. | 122.97 |
| 2 CONFINED AT | 13.53 | 15029. | 34.00 | 14999. | 13181. | 7113. | 139.26 |
| HYDROGRAPH AT | 9.88  | 1373.  | 19.50 | 1206.  | 660.   | 244.  | 4.17   |
| 2 CONFINED AT | 13.53 | 15292. | 33.50 | 15224. | 13545. | 7312. | 143.45 |
| HYDROGRAPH AT | 13.53 | 1115.  | 20.50 | 1011.  | 613.   | 239.  | 4.09   |
| HYDROGRAPH AT | 13.53 | 0.     | 0.50  | 0.     | 0.     | 0.    | 16.31  |
| 3 CONFINED AT | 13.53 | 15638. | 33.00 | 15549. | 13963. | 7519. | 147.54 |
| ROUTED TO     | 9.88  | 15591. | 35.50 | 15529. | 13867. | 7487. | 147.54 |
| HYDROGRAPH AT | 9.88  | 933.   | 19.50 | 830.   | 475.   | 179.  | 3.06   |
| HYDROGRAPH AT | 9.88  | 1320.  | 19.50 | 1169.  | 662.   | 248.  | 4.25   |
| HYDROGRAPH AT | 9.88  | 3444.  | 17.50 | 2578.  | 1050.  | 354.  | 6.07   |
| 4 CONFINED AT | 9.88  | 16092. | 33.50 | 16065. | 14581. | 8074. | 160.92 |
| ROUTED TO     | 6.02  | 16084. | 35.50 | 16042. | 14517. | 7998. | 160.92 |
| HYDROGRAPH AT | 6.02  | 3331.  | 18.00 | 2676.  | 1212.  | 418.  | 7.17   |
| HYDROGRAPH AT | 5.30  | 1581.  | 17.50 | 1186.  | 486.   | 164.  | 2.80   |
| HYDROGRAPH AT | 3.43  | 1794.  | 17.00 | 1219.  | 456.   | 152.  | 2.60   |
| 4 CONFINED AT | 6.02  | 16286. | 33.50 | 16228. | 14825. | 8522. | 173.49 |
| 2 CONFINED AT | 3.43  | 823.   | 17.00 | 571.   | 245.   | 85.   | 1.13   |
| ROUTED TO     | 6.02  | 16248. | 33.50 | 16229. | 14841. | 8582. | 174.62 |
| HYDROGRAPH AT | 10.86 | 3860.  | 17.50 | 2984.  | 1277.  | 435.  | 7.46   |
| ROUTED TO     | 10.86 | 2114.  | 26.50 | 2032.  | 1271.  | 435.  | 7.46   |

|               |       |        |       |       |       |       |       |
|---------------|-------|--------|-------|-------|-------|-------|-------|
| HYDROGRAPH AT | 10.86 | 813.   | 20.00 | 732.  | 437.  | 169.  | 2.88  |
| HYDROGRAPH AT | 10.86 | 707.   | 20.00 | 636.  | 377.  | 145.  | 2.47  |
| HYDROGRAPH AT | 10.86 | 3301.  | 18.50 | 2772. | 1369. | 485.  | 0.33  |
| ROUTED TO     | 0.00  | 2065.  | 29.50 | 1972. | 1253. | 485.  | 0.33  |
| 4 COMBINED AT | 10.86 | 4881.  | 27.50 | 4686. | 3226. | 1225. | 21.14 |
| HYDROGRAPH AT | 10.86 | 1217.  | 21.00 | 1116. | 713.  | 288.  | 4.94  |
| HYDROGRAPH AT | 10.86 | 890.   | 19.50 | 794.  | 457.  | 173.  | 2.95  |
| 3 COMBINED AT | 10.86 | 6186.  | 26.50 | 5975. | 4377. | 1679. | 29.03 |
| ROUTED TO     | 4.72  | 5769.  | 35.50 | 5631. | 4323. | 1678. | 29.03 |
| HYDROGRAPH AT | 4.0   | 3282.  | 19.50 | 2906. | 1641. | 615.  | 10.57 |
| ROUTED TO     | 4.0   | 1420.  | 40.50 | 1396. | 1376. | 614.  | 10.57 |
| HYDROGRAPH AT | 0.0   | 3435.  | 17.50 | 2582. | 1063. | 359.  | 6.16  |
| 2 COMBINED AT | 4.0   | 3661.  | 17.50 | 3290. | 2138. | 970.  | 16.73 |
| ROUTED TO     | 0.0   | 3283.  | 22.00 | 3038. | 2080. | 968.  | 16.73 |
| HYDROGRAPH AT | 4.05  | 1554.  | 19.00 | 1352. | 721.  | 263.  | 4.50  |
| ROUTED TO     | 4.05  | 1539.  | 20.50 | 1344. | 720.  | 263.  | 4.50  |
| HYDROGRAPH AT | 4.05  | 1275.  | 19.50 | 1122. | 619.  | 229.  | 3.92  |
| 2 COMBINED AT | 4.05  | 2760.  | 20.00 | 2434. | 1333. | 690.  | 8.42  |
| ROUTED TO     | 0.0   | 2492.  | 25.00 | 2337. | 1319. | 490.  | 8.42  |
| HYDROGRAPH AT | 0.0   | 1000.  | 19.00 | 1383. | 729.  | 265.  | 4.53  |
| 4 COMBINED AT | 4.22  | 10077. | 24.50 | 9727. | 8036. | 3300. | 58.71 |
| ROUTED TO     | 0.0   | 9587.  | 32.00 | 9197. | 7726. | 3285. | 58.71 |
| HYDROGRAPH AT | 5.53  | 619.   | 16.50 | 374.  | 131.  | 44.   | 0.74  |
| HYDROGRAPH AT | 5.53  | 485.   | 19.50 | 426.  | 233.  | 86.   | 1.46  |

|                |      |        |       |        |        |        |        |
|----------------|------|--------|-------|--------|--------|--------|--------|
| HYDROGRAPH AT  | 5.53 | 126.   | 17.00 | 527.   | 209.   | 70.    | 1.19   |
| 3 COMPRINED AT | 5.53 | 1590.  | 17.00 | 1263.  | 560.   | 198.   | 3.39   |
| ROUTED TO      | 3.92 | 1293.  | 23.00 | 1173.  | 541.   | 198.   | 3.39   |
| HYDROGRAPH AT  | 3.92 | 551.   | 20.00 | 495.   | 291.   | 112.   | 1.90   |
| HYDROGRAPH AT  | 3.92 | 2172.  | 17.50 | 1679.  | 718.   | 244.   | 4.18   |
| 3 COMPRINED AT | 3.92 | 3531.  | 18.00 | 3131.  | 1514.  | 551.   | 9.47   |
| HYDROGRAPH AT  | 3.92 | 1006.  | 18.00 | 836.   | 397.   | 139.   | 2.37   |
| HYDROGRAPH AT  | 3.92 | 580.   | 19.00 | 499.   | 258.   | 93.    | 1.58   |
| 3 COMPRINED AT | 3.92 | 5064.  | 16.00 | 4439.  | 2158.  | 780.   | 13.42  |
| ROUTED TO      | 2.25 | 4410.  | 22.00 | 3899.  | 2040.  | 779.   | 13.42  |
| HYDROGRAPH AT  | 2.25 | 1681.  | 17.00 | 1137.  | 423.   | 141.   | 2.41   |
| 2 COMPRINED AT | 2.25 | 4862.  | 22.00 | 4206.  | 2253.  | 918.   | 15.83  |
| ROUTED TO      | 0.0  | 3794.  | 21.50 | 3499.  | 2056.  | 889.   | 15.83  |
| HYDROGRAPH AT  | 3.43 | 506.   | 19.00 | 437.   | 230.   | 84.    | 1.42   |
| 4 COMPRINED AT | 3.43 | 27459. | 32.50 | 27244. | 24162. | 12277. | 250.58 |
| HYDROGRAPH AT  | 3.43 | 2303.  | 17.00 | 1714.  | 691.   | 233.   | 3.98   |
| HYDROGRAPH AT  | 3.43 | 1624.  | 18.50 | 1389.  | 709.   | 254.   | 4.35   |
| HYDROGRAPH AT  | 3.43 | 814.   | 18.50 | 705.   | 386.   | 147.   | 1.96   |
| 4 COMPRINED AT | 3.43 | 27953. | 32.00 | 27766. | 24565. | 12692. | 260.87 |
| ROUTED TO      | 0.0  | 27926. | 33.50 | 27684. | 24504. | 12046. | 260.87 |

\*\*\* NORMAL END OF HEC-1 \*\*\*

EXISTING WATERSHED CONDITIONS WITH PROPOSED IMPROVEMENTS

| OPERATION                 | STATION | PEAK FLOW | TIME OF PEAK | FLOW IN CUBIC FEET PER SECOND |                      |   | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---------------------------|---------|-----------|--------------|-------------------------------|----------------------|---|------------|---------------|-------------------|
|                           |         |           |              | TIME IN HOURS                 | AREA IN SQUARE MILES | AVERAGE FLOW FOR MAXIMUM PERIOD<br>6-HOUR 24-HOUR 72-HOUR |            |               |                   |
| HYDROGRAPH AT<br>ROUTE TU | 13.53   | 805.      | 19.50        | 709.                          |                      | 392.  | 146.       | 2.48          |                   |
| DIVERSION IN              | 10.55N  | 191.      | 87.50        | 190.                          |                      | 184.  | 137.       | 2.48          |                   |
| HYDROGRAPH AT             | 10.55   | 191.      | 87.50        | 190.                          |                      | 184.  | 137.       | 2.48          |                   |
| DIVERSION IN              | 10.55S  | 0.        | 0.50         | 0.                            |                      | 0.  | 0.         | 2.48          |                   |
| HYDROGRAPH AT             | 10.55   | 191.      | 87.50        | 190.                          |                      | 184.  | 137.       | 2.48          |                   |
| HYDROGRAPH AT             | 10.55   | 448.      | 18.50        | 373.                          |                      | 179.  | 63.        | 1.07          |                   |
| 2 COMBINED AT             | 10.55   | 446.      | 18.50        | 372.                          |                      | 195.  | 156.       | 3.55          |                   |
| KMULD TO                  | 9.205   | 164.      | 119.00       | 164.                          |                      | 156.  | 140.       | 3.55          |                   |
| DIVERSION IN              | 9.205   | 56.       | 119.00       | 55.                           |                      | 49.   | 36.        | 3.55          |                   |
| HYDROGRAPH AT             | 9.205   | 108.      | 119.00       | 108.                          |                      | 107.  | 104.       | 3.55          |                   |
| HYDROGRAPH AT             | 9.205   | 365.      | 19.50        | 321.                          |                      | 178.  | 66.        | 1.12          |                   |
| HYDROGRAPH AT             | 9.205   | 605.      | 18.00        | 495.                          |                      | 233.  | 61.        | 1.38          |                   |
| 3 COMBINED AT             | 9.205   | 999.      | 18.50        | 878.                          |                      | 487.  | 238.       | 6.05          |                   |
| KMULD TU                  | 7.515   | 250.      | 92.00        | 250.                          |                      | 245.  | 213.       | 6.05          |                   |
| DIVERSION IN              | 7.515   | 127.      | 92.00        | 127.                          |                      | 123.  | 94.        | 6.05          |                   |
| HYDROGRAPH AT             | 7.515   | 123.      | 92.00        | 123.                          |                      | 122.  | 119.       | 6.05          |                   |
| HYDROGRAPH AT             | 7.515   | 256.      | 18.50        | 216.                          |                      | 109.  | 39.        | 0.65          |                   |
| HYDROGRAPH AT             | 7.515   | 760.      | 18.50        | 633.                          |                      | 304.  | 107.       | 1.82          |                   |
| 3 COMBINED AT             | 7.515   | 1007.     | 18.50        | 842.                          |                      | 421.  | 218.       | 8.52          |                   |

|               |        |       |       |       |       |       |       |
|---------------|--------|-------|-------|-------|-------|-------|-------|
| KNOTTED TU    | 4.675  | 591.  | 29.50 | 545.  | 359.  | 210.  | 8.52  |
| DIVISION 10   | 4.675  | 0.    | 0.50  | 0.    | 0.    | 0.    | 8.52  |
| HYDROGRAPH AT | 4.65   | 591.  | 29.50 | 545.  | 359.  | 210.  | 8.52  |
| HYDROGRAPH AT | 4.675  | 273.  | 18.00 | 224.  | 106.  | 37.   | 0.63  |
| HYDROGRAPH AT | 4.675  | 648.  | 19.00 | 568.  | 310.  | 114.  | 1.94  |
| HYDROGRAPH AT | 4.675  | 362.  | 19.00 | 315.  | 169.  | 62.   | 1.05  |
| HYDROGRAPH AT | 4.675  | 1284. | 19.00 | 1131. | 854.  | 403.  | 12.14 |
| 4 COMBINED AT | 4.675  | 90.   | 18.00 | 74.   | 35.   | 12.   | 0.20  |
| HYDROGRAPH AT | 4.675  | 185.  | 18.00 | 153.  | 72.   | 25.   | 0.43  |
| HYDROGRAPH AT | 4.675  | 1158. | 19.50 | 1018. | 560.  | 207.  | 3.54  |
| HYDROGRAPH AT | 4.675  | 2681. | 19.00 | 2353. | 1505. | 643.  | 16.31 |
| 4 COMBINED AT | 4.675  | 0.0   | 2378. | 24.50 | 2211. | 1492. | 16.31 |
| ROUTED TU     | 0.0    | 0.    | 0.50  | 0.    | 0.    | 0.    | 16.31 |
| DIVISION 10   | 0.05   | 0.    | 0.50  | 0.    | 0.    | 0.    | 16.31 |
| HYDROGRAPH AT | 0.0    | 2378. | 24.50 | 2211. | 1492. | 642.  | 16.31 |
| DIVISION 10   | 0.0N   | R3.   | 24.50 | 48.   | 12.   | 4.    | 16.31 |
| HYDROGRAPH AT | 0.0    | 2295. | 24.50 | 2163. | 1480. | 638.  | 16.31 |
| HYDROGRAPH AT | 44.102 | 1217. | 19.50 | 1085. | 625.  | 236.  | 4.04  |
| KNOTTED TU    | 1      | 910.  | 29.50 | 818.  | 569.  | 236.  | 4.04  |
| HYDROGRAPH AT | 42.863 | 1089. | 19.00 | 951.  | 520.  | 191.  | 3.27  |
| 2 COMBINED AT | 44.102 | 1313. | 29.00 | 1172. | 949.  | 426.  | 7.31  |
| ROUTED TU     | 42.863 | 1016. | 42.50 | 1002. | 857.  | 425.  | 7.31  |
| HYDROGRAPH AT | 40.863 | 2369. | 20.00 | 2150. | 1262. | 485.  | 8.33  |
| 2 COMBINED AT | 42.863 | 2373. | 20.00 | 2151. | 1658. | 904.  | 15.64 |
| KNOTTED TU    | 40.863 | 1930. | 29.00 | 1886. | 1607. | 903.  | 15.64 |

|               |        |       |       |       |       |       |       |
|---------------|--------|-------|-------|-------|-------|-------|-------|
| DIVERSION IN  | 40.863 | 1.    | 29.00 | 0.    | 0.    | 0.    | 15.64 |
| HYDROGRAPH AT | 40.863 | 1924. | 29.00 | 1885. | 1607. | 903.  | 15.64 |
| HYDROGRAPH AT | 39.259 | 2104. | 19.50 | 1871. | 1072. | 404.  | 6.93  |
| 2 CONFINED AT | 40.863 | 2992. | 20.50 | 2908. | 2407. | 1299. | 22.57 |
| KNOTTED TU    | 39.259 | 2951. | 30.00 | 2887. | 2392. | 1299. | 22.57 |
| DIVERSION IN  | 39.259 | 0.    | 0.50  | 0.    | 0.    | 0.    | 22.57 |
| HYDROGRAPH AT | 39.259 | 2951. | 30.00 | 2887. | 2392. | 1299. | 22.57 |
| HYDROGRAPH AT | 37.495 | 2428. | 19.00 | 2102. | 1114. | 405.  | 6.95  |
| 2 CONFINED AT | 39.259 | 4051. | 23.50 | 3975. | 3277. | 1694. | 29.52 |
| KNOTTED TO    | 37.495 | 3959. | 29.00 | 3890. | 3205. | 1691. | 29.52 |
| DIVERSION TO  | 37.495 | 0.    | 0.50  | 0.    | 0.    | 0.    | 29.52 |
| HYDROGRAPH AT | 37.495 | 3959. | 29.00 | 3890. | 3205. | 1691. | 29.52 |
| HYDROGRAPH AT | 35.179 | 2236. | 18.50 | 1897. | 959.  | 343.  | 5.87  |
| 2 CONFINED AT | 37.495 | 4666. | 27.00 | 4540. | 3690. | 2004. | 35.39 |
| KNOTTED TU    | 35.179 | 4400. | 34.50 | 4332. | 3661. | 2004. | 35.39 |
| DIVERSION IN  | 35.179 | 0.    | 0.50  | 0.    | 0.    | 0.    | 35.39 |
| HYDROGRAPH AT | 35.179 | 4400. | 34.50 | 4332. | 3661. | 2004. | 35.39 |
| HYDROGRAPH AT | 35.179 | 1291. | 18.50 | 1091. | 547.  | 195.  | 5.33  |
| 2 CONFINED AT | 35.179 | 4535. | 34.00 | 4466. | 3872. | 2184. | 38.72 |
| KNOTTED TO    | 35.179 | 4451. | 37.00 | 4393. | 3855. | 2183. | 38.72 |
| DIVERSION IN  | 33.739 | 0.    | 0.50  | 0.    | 0.    | 0.    | 38.72 |
| HYDROGRAPH AT | 33.739 | 4451. | 37.00 | 4393. | 3855. | 2183. | 38.72 |
| HYDROGRAPH AT | 32.197 | 1659. | 18.00 | 1347. | 625.  | 217.  | 3.71  |
| 2 CONFINED AT | 33.739 | 4505. | 36.50 | 4451. | 4091. | 2383. | 42.43 |

|               |        |        |       |       |       |       |       |
|---------------|--------|--------|-------|-------|-------|-------|-------|
| ROUTED TO     | 32.797 | 4426.  | 40.00 | 4382. | 4058. | 2383. | 42.43 |
| DIVISION IN   | 32.797 | - 0.   | 0.50  | 0.    | 0.    | 0.    | 42.43 |
| HYDROGRAPH AT | 32.797 | 4426.  | 40.00 | 4382. | 4058. | 2383. | 42.43 |
| HYDROGRAPH AT | 31.702 | 2104.  | 17.00 | 1425. | 531.  | 178.  | 3.03  |
| 2 COMBINED AT | 32.797 | 4536.  | 18.50 | 4382. | 4163. | 2550. | 45.46 |
| ROUTED TO     | 31.702 | 4470.  | 19.00 | 4368. | 4152. | 2543. | 45.46 |
| DIVISION IN   | 31.702 | - 0.   | 0.50  | 0.    | 0.    | 0.    | 45.46 |
| HYDROGRAPH AT | 31.702 | 4470.  | 19.00 | 4368. | 4152. | 2543. | 45.46 |
| HYDROGRAPH AT | 31.012 | 468.   | 18.50 | 398.  | 202.  | 72.   | 1.23  |
| 2 COMBINED AT | 31.702 | 4917.  | 19.00 | 4677. | 4316. | 2609. | 46.69 |
| ROUTED TO     | 31.012 | 4733.  | 20.00 | 4617. | 4301. | 2609. | 46.69 |
| DIVISION IN   | 31.012 | - 0.   | 0.50  | 0.    | 0.    | 0.    | 46.69 |
| HYDROGRAPH AT | 31.012 | 4733.  | 20.00 | 4617. | 4301. | 2609. | 46.69 |
| HYDROGRAPH AT | 30.197 | 564.   | 19.00 | 488.  | 260.  | 95.   | 1.61  |
| 2 COMBINED AT | 31.012 | 5248.  | 20.00 | 5057. | 4510. | 2696. | 48.30 |
| ROUTED TO     | 30.197 | 5085.  | 21.50 | 4991. | 4493. | 2696. | 48.30 |
| DIVISION IN   | 30.197 | 65.    | 21.50 | 61.   | 39.   | 16.   | 48.30 |
| HYDROGRAPH AT | 30.197 | 5021.  | 21.50 | 4931. | 4454. | 2680. | 48.30 |
| HYDROGRAPH AT | 28.52  | 2161.  | 17.50 | 1650. | 697.  | 237.  | 4.05  |
| 2 COMBINED AT | 30.197 | 6294.  | 20.00 | 6004. | 4906. | 2895. | 52.35 |
| ROUTED TO     | 28.52  | 5901.  | 23.50 | 5775. | 4867. | 2894. | 52.35 |
| DIVISION IN   | 28.52  | - 178. | 23.50 | 166.  | 95.   | 38.   | 52.35 |
| HYDROGRAPH AT | 28.52  | 5725.  | 23.50 | 5609. | 4772. | 2856. | 52.35 |
| HYDROGRAPH AT | 21.105 | 1974.  | 18.00 | 1619. | 760.  | 265.  | 4.53  |

|               |        |       |       |       |       |       |       |
|---------------|--------|-------|-------|-------|-------|-------|-------|
| 2 COMBINED AT | 29.52  | 6800. | 21.50 | 6677. | 5348. | 3098. | 56.88 |
| KNOTTED TU    | 21.105 | 6502. | 28.50 | 6370. | 5249. | 3094. | 56.88 |
| UNIVERSION TO | 21105K | 586.  | 28.50 | 361.  | 200.  | 80.   | 56.88 |
| HYDROGRAPH AT | 21.105 | 6117. | 28.50 | 6008. | 5049. | 3014. | 56.88 |
| UNIVERSION IN | 21105L | 0.    | 0.50  | 0.    | 0.    | 0.    | 56.88 |
| HYDROGRAPH AT | 21.105 | 6117. | 28.50 | 6008. | 5049. | 3014. | 56.88 |
| HYDROGRAPH AT | 21.105 | 4308. | 17.50 | 3331. | 1425. | 485.  | 8.33  |
| HYDROGRAPH AT | 21.105 | 0.    | 0.50  | 0.    | 0.    | 0.    | 46.69 |
| HYDROGRAPH AT | 21.105 | 65.   | 21.50 | 61.   | 39.   | 16.   | 48.30 |
| HYDROGRAPH AT | 21.105 | 178.  | 23.50 | 166.  | 95.   | 38.   | 52.35 |
| 4 COMBINED AT | 21.105 | 4320. | 17.50 | 3446. | 1542. | 545.  | 8.33  |
| HYDROGRAPH AT | 21.105 | 0.    | 0.50  | 0.    | 0.    | 0.    | 56.88 |
| 2 COMBINED AT | 21.105 | 4320. | 17.50 | 3446. | 1542. | 545.  | 8.33  |
| KNOTTED TU    | 00     | 2501. | 31.50 | 2413. | 1534. | 545.  | 8.33  |
| UNIVERSION TO | 0111   | 31.   | 31.50 | 24.   | 6.    | 2.    | 8.33  |
| HYDROGRAPH AT | 00     | 2470. | 31.50 | 2389. | 1528. | 543.  | 8.33  |
| 2 COMBINED AT | 21.105 | 8442. | 29.50 | 8303. | 6292. | 3518. | 65.21 |
| HYDROGRAPH AT | 21.105 | 2407. | 17.50 | 1802. | 733.  | 247.  | 4.23  |
| KNOTTED TU    | 3.00   | 1292. | 30.00 | 1240. | 731.  | 247.  | 4.23  |
| HYDROGRAPH AT | 3.00   | 31.   | 31.50 | 24.   | 6.    | 2.    | 8.33  |
| 2 COMBINED AT | 3.00   | 1320. | 30.00 | 1261. | 737.  | 250.  | 4.23  |
| HYDROGRAPH AT | 3.00   | 718.  | 19.00 | 629.  | 343.  | 126.  | 2.15  |
| HYDROGRAPH AT | 00     | 950.  | 19.00 | 817.  | 423.  | 152.  | 2.60  |
| 3 COMBINED AT | 3.00   | 2171. | 19.00 | 2090. | 1493. | 525.  | 8.98  |

|               |        |        |       |        |       |       |       |
|---------------|--------|--------|-------|--------|-------|-------|-------|
| KNOTED TU     | 00     | 2069.  | 27.00 | 2044.  | 1491. | 525.  | 8.98  |
| HYDROGRAPH AT | 00     | 474.   | 19.00 | 413.   | 223.  | 82.   | 1.39  |
| 2 COMBINED AT | 00     | 2311.  | 25.50 | 2274.  | 1707. | 605.  | 10.37 |
| 2 COMBINED AT | 21.105 | 10543. | 29.00 | 10398. | 1782. | 4082. | 75.58 |
| HYDROGRAPH AT | 17.548 | 552.   | 20.00 | 499.   | 300.  | 116.  | 1.98  |
| 2 COMBINED AT | 21.105 | 10804. | 28.50 | 10663. | 8032. | 4189. | 77.56 |
| KNOTED TU     | 17.548 | 10669. | 32.00 | 10526. | 8007. | 4186. | 77.56 |
| HYDROGRAPH AT | 17.548 | 1187.  | 19.00 | 1032.  | 555.  | 203.  | 3.47  |
| KNOTED TU     | 11.53  | 990.   | 26.00 | 921.   | 550.  | 203.  | 3.47  |
| HYDROGRAPH AT | 9.32   | 1595.  | 18.50 | 1331.  | 645.  | 227.  | 3.88  |
| 2 COMBINED AT | 11.53  | 1719.  | 18.50 | 1604.  | 1155. | 428.  | 7.35  |
| KNOTED TU     | 11.53  | 1567.  | 30.50 | 1514.  | 1069. | 428.  | 7.35  |
| HYDROGRAPH AT | 7.73   | 1789.  | 17.00 | 1288.  | 506.  | 170.  | 2.90  |
| 2 COMBINED AT | 9.32   | 1932.  | 17.00 | 1591.  | 1360. | 596.  | 10.25 |
| KNOTED TU     | 7.73   | 1481.  | 39.50 | 1450.  | 1316. | 596.  | 10.25 |
| HYDROGRAPH AT | 5.19   | 915.   | 18.50 | 764.   | 370.  | 130.  | 2.22  |
| 2 COMBINED AT | 7.73   | 1694.  | 25.50 | 1657.  | 1528. | 725.  | 12.47 |
| KNOTED TU     | 5.19   | 1579.  | 36.00 | 1564.  | 1480. | 725.  | 12.47 |
| HYDROGRAPH AT | 0.0    | 2311.  | 18.00 | 1852.  | 834.  | 287.  | 4.92  |
| 2 COMBINED AT | 5.19   | 2948.  | 18.00 | 2599.  | 1961. | 1009. | 17.39 |
| HYDROGRAPH AT | 5.19   | 386.   | 26.50 | 361.   | 200.  | 80.   | 56.88 |
| 2 COMBINED AT | 5.19   | 2948.  | 16.00 | 2617.  | 2153. | 1095. | 17.39 |
| KNOTED TU     | 0.0    | 2537.  | 24.50 | 2391.  | 2063. | 1095. | 17.39 |
| 2 COMBINED AT | 17.548 | 12669. | 32.00 | 12527. | 9898. | 5176. | 94.95 |

|                |        |        |        |        |        |       |        |
|----------------|--------|--------|--------|--------|--------|-------|--------|
| HYDROGRAPH AT  | 15.505 | 1512.  | 17.50  | 1153.  | 487.   | 165.  | 2.82   |
| 2 COMPRINED AT | 17.548 | 12734. | 31.50  | 12610. | 10043. | 5312. | 97.77  |
| ROUTED TO      | 15.505 | 12696. | 33.50  | 12562. | 10027. | 5311. | 97.77  |
| HYDROGRAPH AT  | 15.505 | 2690.  | 18.50  | 2282.  | 1153.  | 412.  | 7.06   |
| HYDROGRAPH AT  | 9.10   | 6.     | 0.50   | 0.     | 0.     | 0.    | 2.48   |
| 2 COMPRINED AT | 9.10   | 2690.  | 18.50  | 2282.  | 1153.  | 412.  | 7.06   |
| ROUTED TO      | 9.10   | 2212.  | 25.00  | 2020.  | 1117.  | 412.  | 7.06   |
| HYDROGRAPH AT  | 7.62   | 1431.  | 18.50  | 1220.  | 622.   | 224.  | 3.82   |
| 2 COMPRINED AT | 9.10   | 2960.  | 24.50  | 2719.  | 1653.  | 633.  | 10.88  |
| HYDROGRAPH AT  | 9.10   | 56.    | 119.00 | 55.    | 49.    | 36.   | 3.55   |
| 2 COMPRINED AT | 9.10   | 2967.  | 24.50  | 2726.  | 1664.  | 657.  | 10.88  |
| ROUTED TO      | 7.62   | 2441.  | 30.00  | 1952.  | 1075.  | 621.  | 10.88  |
| HYDROGRAPH AT  | 6.50   | 920.   | 19.00  | 796.   | 422.   | 154.  | 2.62   |
| 2 COMPRINED AT | 7.62   | 2710.  | 30.00  | 2161.  | 1183.  | 725.  | 13.50  |
| ROUTED TO      | 6.50   | 2419.  | 33.50  | 2032.  | 1169.  | 707.  | 13.50  |
| HYDROGRAPH AT  | 0.0    | 3199.  | 18.00  | 2650.  | 1258.  | 440.  | 7.55   |
| 2 COMPRINED AT | 6.50   | 3192.  | 18.00  | 2663.  | 1993.  | 1071. | 21.05  |
| HYDROGRAPH AT  | 6.50   | 127.   | 92.00  | 127.   | 123.   | 94.   | 6.05   |
| HYDROGRAPH AT  | 6.50   | 0.     | 0.50   | 0.     | 0.     | 0.    | 0.52   |
| 3 COMPRINED AT | 6.50   | 3192.  | 18.00  | 2663.  | 1993.  | 1113. | 21.05  |
| HYDROGRAPH AT  | 6.50   | 83.    | 24.50  | 48.    | 12.    | 4.    | 16.31  |
| 2 COMPRINED AT | 6.50   | 3192.  | 18.00  | 2665.  | 2005.  | 1117. | 21.05  |
| ROUTED TO      | 0.0    | 2782.  | 22.50  | 2504.  | 1976.  | 1114. | 21.05  |
| 2 COMPRINED AT | 15.505 | 13910. | 36.00  | 13853. | 11740. | 6339. | 118.82 |

|               |        |        |       |        |        |       |        |
|---------------|--------|--------|-------|--------|--------|-------|--------|
| HYDROGRAPH AT | 12.600 | 1951.  | 18.00 | 1564.  | 704.   | 243.  | 4.15   |
| 2 COMBINED AT | 15.505 | 14047. | 31.50 | 13980. | 12020. | 6546. | 122.97 |
| ROUTED TU     | 12.606 | 17039. | 32.50 | 13977. | 12013. | 6518. | 122.97 |
| 2 COMBINED AT | 12.606 | 15475. | 31.50 | 15367. | 13325. | 7105. | 139.28 |
| HYDROGRAPH AT | 9.586  | 1373.  | 19.50 | 1206.  | 660.   | 244.  | 4.17   |
| 2 COMBINED AT | 12.606 | 15840. | 31.00 | 15743. | 13730. | 7302. | 143.45 |
| HYDROGRAPH AT | 12.600 | 1115.  | 20.50 | 1011.  | 613.   | 239.  | 4.09   |
| HYDROGRAPH AT | 12.606 | 0.     | 0.50  | 0.     | 0.     | 0.    | 16.31  |
| 3 COMBINED AT | 12.600 | 16296. | 30.00 | 16232. | 14184. | 7508. | 147.54 |
| ROUTED TU     | 9.586  | 16275. | 32.00 | 16211. | 14151. | 7420. | 147.54 |
| HYDROGRAPH AT | 9.586  | 933.   | 19.50 | 830.   | 475.   | 179.  | 3.06   |
| HYDROGRAPH AT | 9.586  | 1320.  | 19.50 | 1169.  | 662.   | 248.  | 4.25   |
| HYDROGRAPH AT | 9.586  | 1444.  | 17.50 | 2578.  | 1050.  | 354.  | 6.07   |
| 4 COMBINED AT | 9.586  | 17372. | 28.00 | 17192. | 15137. | 7979. | 160.92 |
| ROUTED TU     | 5.857  | 17312. | 30.00 | 17158. | 15080. | 7895. | 160.92 |
| HYDROGRAPH AT | 5.857  | 3331.  | 18.00 | 2676.  | 1212.  | 418.  | 7.17   |
| HYDROGRAPH AT | 5.30   | 1581.  | 17.50 | 1186.  | 486.   | 164.  | 2.80   |
| HYDROGRAPH AT | 2.988  | 1794.  | 17.00 | 1219.  | 456.   | 152.  | 2.60   |
| 4 COMBINED AT | 5.857  | 17923. | 29.00 | 17674. | 15633. | 8422. | 173.49 |
| HYDROGRAPH AT | 2.980  | 823.   | 17.00 | 571.   | 245.   | 85.   | 1.13   |
| 2 COMBINED AT | 5.857  | 17955. | 29.00 | 17699. | 15672. | 8482. | 174.62 |
| ROUTED TU     | 2.988  | 17938. | 30.00 | 17691. | 15670. | 8195. | 174.62 |
| HYDROGRAPH AT | 10.86  | 3860.  | 17.50 | 2964.  | 1277.  | 435.  | 7.46   |
| ROUTED TU     | 10.86  | 2417.  | 27.00 | 2267.  | 1273.  | 435.  | 7.46   |

|               |       |        |       |       |       |       |       |
|---------------|-------|--------|-------|-------|-------|-------|-------|
| HYDROGRAPH AT | 10.86 | 813.   | 20.00 | 732.  | 437.  | 169.  | 2.88  |
| HYDROGRAPH AT | 10.86 | 107.   | 20.00 | 636.  | 377.  | 145.  | 2.47  |
| HYDROGRAPH AT | 10.86 | 3501.  | 18.50 | 2772. | 1369. | 485.  | 8.33  |
| KNOTTED TU    | 0.00  | 2192.  | 29.00 | 2075. | 1261. | 485.  | 8.33  |
| 4 COMBINED AT | 10.86 | 5290.  | 27.50 | 5013. | 3239. | 1225. | 21.14 |
| HYDROGRAPH AT | 10.86 | 1217.  | 21.00 | 1118. | 713.  | 288.  | 4.94  |
| HYDROGRAPH AT | 10.86 | 890.   | 19.50 | 794.  | 457.  | 173.  | 2.95  |
| 3 COMBINED AT | 10.86 | 6554.  | 27.00 | 6244. | 4390. | 1679. | 29.03 |
| KNOTTED TU    | 4.22  | 5955.  | 36.00 | 5762. | 4337. | 1678. | 29.03 |
| HYDROGRAPH AT | 4.0   | 3282.  | 19.50 | 2906. | 1641. | 615.  | 10.57 |
| KNOTTED TU    | 4.0   | 1420.  | 40.50 | 1396. | 1376. | 614.  | 10.57 |
| HYDROGRAPH AT | 0.0   | 3435.  | 11.50 | 2582. | 1063. | 359.  | 6.16  |
| 2 COMBINED AT | 4.0   | 3661.  | 17.50 | 3290. | 2138. | 970.  | 16.73 |
| KNOTTED TU    | 0.0   | 3441.  | 21.50 | 3150. | 2100. | 968.  | 16.73 |
| HYDROGRAPH AT | 4.05  | 1559.  | 19.00 | 1352. | 721.  | 263.  | 4.50  |
| KNOTTED TU    | 4.05  | 1539.  | 20.50 | 1344. | 720.  | 263.  | 4.50  |
| HYDROGRAPH AT | 4.05  | 1275.  | 19.50 | 1122. | 619.  | 229.  | 3.92  |
| 2 COMBINED AT | 4.05  | 2766.  | 20.00 | 2434. | 1333. | 490.  | 6.42  |
| KNOTTED TU    | 0.0   | 2492.  | 25.00 | 2337. | 1319. | 490.  | 8.42  |
| HYDROGRAPH AT | 0.0   | 1600.  | 19.00 | 1383. | 729.  | 265.  | 4.53  |
| 4 COMBINED AT | 4.22  | 10077. | 24.50 | 9734. | 8070. | 3300. | 58.71 |
| KNOTTED TU    | 0.0   | 9466.  | 31.50 | 9251. | 7775. | 3287. | 58.71 |
| HYDROGRAPH AT | 5.53  | 619.   | 16.50 | 374.  | 131.  | 44.   | 0.74  |
| HYDROGRAPH AT | 5.53  | 485.   | 19.50 | 426.  | 233.  | 86.   | 1.46  |

|                                |       |        |       |        |        |        |        |
|--------------------------------|-------|--------|-------|--------|--------|--------|--------|
| HYDROGRAPH AT<br>3 CONFINED AI | 5.53  | 726.   | 17.00 | 527.   | 209.   | 70.    | 1.19   |
| KNOTTED TU                     | 5.53  | 1590.  | 17.00 | 1263.  | 560.   | 198.   | 3.39   |
| HYDROGRAPH AT<br>3 CONFINED AI | 3.92  | 1293.  | 23.00 | 1173.  | 541.   | 198.   | 3.39   |
| HYDROGRAPH AT<br>3 CONFINED AI | 3.92  | 551.   | 20.00 | 495.   | 291.   | 112.   | 1.90   |
| HYDROGRAPH AT<br>3 CONFINED AI | 3.92  | 2172.  | 17.50 | 1679.  | 718.   | 244.   | 4.18   |
| HYDROGRAPH AT<br>3 CONFINED AI | 3.92  | 3531.  | 18.00 | 3131.  | 1514.  | 551.   | 9.47   |
| HYDROGRAPH AT<br>3 CONFINED AI | 3.92  | 1008.  | 18.00 | 836.   | 397.   | 139.   | 2.37   |
| HYDROGRAPH AT<br>3 CONFINED AI | 3.92  | 580.   | 19.00 | 499.   | 258.   | 93.    | 1.58   |
| KNOTTED TU                     | 2.25  | 4410.  | 22.00 | 3899.  | 2040.  | 779.   | 13.42  |
| HYDROGRAPH AT<br>2 CONFINED AI | 2.25  | 1681.  | 17.00 | 1137.  | 423.   | 141.   | 2.41   |
| 2 CONFINED AI                  | 2.25  | 4862.  | 22.00 | 4206.  | 2253.  | 918.   | 15.83  |
| KNOTTED TU                     | 0.0   | 3941.  | 27.50 | 3617.  | 2078.  | 892.   | 15.83  |
| HYDROGRAPH AT<br>4 CONFINED AI | 2.988 | 506.   | 19.00 | 437.   | 230.   | 84.    | 1.42   |
| HYDROGRAPH AT<br>4 CONFINED AI | 2.988 | 30261. | 30.00 | 29604. | 24782. | 12182. | 250.58 |
| HYDROGRAPH AT<br>4 CONFINED AI | 2.988 | 2303.  | 17.00 | 1714.  | 691.   | 233.   | 3.98   |
| HYDROGRAPH AT<br>4 CONFINED AI | 2.988 | 1624.  | 18.50 | 1389.  | 709.   | 254.   | 4.35   |
| HYDROGRAPH AT<br>4 CONFINED AI | 2.988 | 814.   | 18.50 | 705.   | 386.   | 147.   | 1.96   |
| KNOTTED TU                     | 0.0   | 50976. | 30.00 | 30292. | 25301. | 12594. | 260.87 |
|                                |       | 50915. | 31.00 | 30249. | 25256. | 11907. | 260.87 |

\*\*\* NORMAL END OF FILE - 1 \*\*\*

ULTIMATE WATERSHED CONDITIONS WITH PROPOSED IMPROVEMENTS

PUNOFF SUMMARY

FLOW IN CUBIC FEET PER SECOND

TIME IN HOURS, AREA IN SQUARE MILES

| OPERATION                       | STATION | PEAK FLOW | TIME OF PEAK | AVERAGE FLOW FOR MAXIMUM PERIOD<br>6-HOUR | 24-HOUR | 72-HOUR | BASIN AREA | MAXIMUM STAGE | TIME OF MAX STAGE |
|---------------------------------|---------|-----------|--------------|---|---------|---------|------------|---------------|-------------------|
| HYDROGRAPH AT<br>ROUTED TO      | 13.53   | 1823.     | 16.50        | 1203.                                     | 437.    | 146.    | 2.48       |               |                   |
| DIVERSION TO                    | 10.55   | 200.      | 80.50        | 199.                                      | 192.    | 139.    | 2.48       |               |                   |
| HYDROGRAPH AT                   | 10.55   | 200.      | 80.50        | 199.                                      | 192.    | 139.    | 2.48       |               |                   |
| DIVERSION TO                    | 10.55   | 0.        | 0.50         | 0.  | 0.      | 0.      | 2.48       |               |                   |
| HYDROGRAPH AT                   | 10.55   | 200.      | 80.50        | 199.                                      | 192.    | 139.    | 2.48       |               |                   |
| HYDROGRAPH AT<br>2 CONSTRICTED  | 10.55   | 972.      | 16.50        | 556.                                      | 189.    | 63.     | 1.07       |               |                   |
| ROUTED TO                       | 9.205   | 175.      | 43.50        | 175.                                      | 163.    | 140.    | 3.55       |               |                   |
| DIVERSION TO                    | 9.205   | 65.       | 43.50        | 64.                                       | 55.     | 37.     | 3.55       |               |                   |
| HYDROGRAPH AT                   | 9.205   | 110.      | 43.50        | 110.                                      | 108.    | 103.    | 3.55       |               |                   |
| HYDROGRAPH AT                   | 9.205   | 825.      | 16.50        | 544.                                      | 197.    | 66.     | 1.12       |               |                   |
| HYDROGRAPH AT<br>3 CONSTRICTION | 9.205   | 1077.     | 16.50        | 682.                                      | 243.    | 81.     | 1.38       |               |                   |
| ROUTED TO                       | 7.515   | 256.      | 85.50        | 255.                                      | 250.    | 215.    | 6.05       |               |                   |
| DIVERSION TO                    | 7.515   | 132.      | 85.50        | 132.                                      | 128.    | 96.     | 6.05       |               |                   |
| HYDROGRAPH AT                   | 7.515   | 123.      | 85.50        | 123.                                      | 123.    | 119.    | 6.05       |               |                   |
| HYDROGRAPH AT<br>5 CONSTRICTION | 7.515   | 571.      | 16.50        | 336.                                      | 116.    | 39.     | 0.65       |               |                   |
| HYDROGRAPH AT                   | 7.515   | 1360.     | 16.50        | 886.                                      | 320.    | 107.    | 1.82       |               |                   |
| 5 CONSTRICTION                  | 7.515   | 1914.     | 16.50        | 1211.                                     | 441.    | 220.    | 8.52       |               |                   |

|               |        |       |       |       |       |      |       |
|---------------|--------|-------|-------|-------|-------|------|-------|
| ROUTED TO     | 4.675  | 851.  | 25.50 | 734.  | 401.  | 212. | 8.52  |
| DIVERSION TO  | 4.675  | 0.    | 0.50  | 0.    | 0.    | 0.   | 8.52  |
| HYDROGRAPH AT | 4.65   | 851.  | 25.50 | 734.  | 401.  | 212. | 8.52  |
| HYDROGRAPH AT | 4.675  | 487.  | 16.50 | 310.  | 111.  | 37.  | 0.63  |
| HYDROGRAPH AT | 4.675  | 1468. | 16.50 | 950.  | 342.  | 114. | 1.94  |
| HYDROGRAPH AT | 4.675  | 818.  | 16.50 | 519.  | 185.  | 62.  | 1.05  |
| 4 CONFINED AT | 4.675  | 2769. | 16.50 | 1804. | 934.  | 406. | 12.14 |
| HYDROGRAPH AT | 4.675  | 192.  | 16.50 | 108.  | 36.   | 12.  | 0.20  |
| HYDROGRAPH AT | 4.675  | 396.  | 16.50 | 225.  | 76.   | 25.  | 0.43  |
| HYDROGRAPH AT | 4.675  | 2154. | 17.00 | 1562. | 617.  | 207. | 3.54  |
| 4 COMBINED AT | 4.675  | 5320. | 17.00 | 3657. | 1642. | 647. | 16.31 |
| ROUTED TO     | 0.0    | 3892. | 22.00 | 3296. | 1635. | 644. | 16.31 |
| DIVERSION TO  | 0.05   | 0.    | 0.50  | 0.    | 0.    | 0.   | 16.31 |
| HYDROGRAPH AT | 0.0    | 3892. | 22.00 | 3296. | 1635. | 644. | 16.31 |
| DIVERSION TO  | 0.04   | 920.  | 22.00 | 546.  | 139.  | 46.  | 16.31 |
| HYDROGRAPH AT | 0.0    | 2971. | 22.00 | 2750. | 1496. | 598. | 16.31 |
| HYDROGRAPH AT | 44.102 | 2818. | 17.00 | 1906. | 707.  | 236. | 4.04  |
| ROUTED TO     | 1      | 1125. | 32.00 | 1092. | 677.  | 236. | 4.04  |
| 2 CONFINED AT | 44.102 | 2552. | 16.50 | 1759. | 1139. | 426. | 7.31  |
| ROUTED TO     | 42.063 | 1141. | 37.50 | 1136. | 998.  | 191. | 3.27  |
| HYDROGRAPH AT | 42.063 | 2473. | 16.50 | 1598. | 574.  | 191. | 3.27  |
| HYDROGRAPH AT | 40.063 | 5582. | 17.00 | 3829. | 1451. | 426. | 7.31  |
| 2 CONFINED AT | 42.063 | 5575. | 17.00 | 3845. | 1891. | 908. | 15.64 |
| ROUTED TO     | 40.063 | 4032. | 22.00 | 3159. | 1840. | 908. | 15.64 |

|               |        |       |       |       |       |       |       |
|---------------|--------|-------|-------|-------|-------|-------|-------|
| DIVISION TO   | 40.863 | 144.  | 22.00 | 83.   | 21.   | 7.    | 15.64 |
| HYDROGRAPH AT | 40.863 | 3888. | 22.00 | 3057. | 1819. | 901.  | 15.64 |
| HYDROGRAPH AT | 39.259 | 4857. | 17.00 | 3275. | 1210. | 404.  | 6.93  |
| 2 COMINED AT  | 40.863 | 5325. | 17.00 | 4850. | 2790. | 1300. | 22.57 |
| ROUTED TO     | 39.259 | 4998. | 24.50 | 4699. | 2775. | 1300. | 22.57 |
| DIVISION TO   | 39.259 | 0.    | 0.50  | 0.    | 0.    | 0.    | 22.57 |
| HYDROGRAPH AT | 39.259 | 4998. | 24.50 | 4699. | 2775. | 1300. | 22.57 |
| HYDROGRAPH AT | 37.495 | 4852. | 17.00 | 3278. | 1213. | 405.  | 6.95  |
| 2 COMBINED AT | 39.259 | 6603. | 20.00 | 6150. | 3815. | 1700. | 29.52 |
| ROUTED TO     | 37.495 | 6130. | 24.50 | 5923. | 3755. | 1699. | 29.52 |
| DIVISION TO   | 37.495 | 0.    | 0.50  | 0.    | 0.    | 0.    | 29.52 |
| HYDROGRAPH AT | 37.495 | 6130. | 24.50 | 5923. | 3755. | 1699. | 29.52 |
| HYDROGRAPH AT | 35.179 | 4069. | 17.00 | 2755. | 1025. | 343.  | 5.87  |
| 2 COMBINED AT | 37.495 | 6794. | 24.00 | 6445. | 4475. | 2021. | 35.39 |
| ROUTED TO     | 35.179 | 6165. | 31.00 | 5999. | 4435. | 2021. | 35.39 |
| DIVISION TO   | 35.179 | 0.    | 0.50  | 0.    | 0.    | 0.    | 35.39 |
| HYDROGRAPH AT | 35.179 | 6165. | 31.00 | 5999. | 4435. | 2021. | 35.39 |
| HYDROGRAPH AT | 33.139 | 2329. | 17.00 | 1574. | 584.  | 195.  | 3.33  |
| 2 COMBINED AT | 35.179 | 6174. | 31.00 | 6017. | 4766. | 2204. | 38.72 |
| ROUTED TO     | 33.739 | 5646. | 30.00 | 5574. | 4697. | 2204. | 38.72 |
| DIVISION TO   | 33.739 | 0.    | 0.50  | 0.    | 0.    | 0.    | 38.72 |
| HYDROGRAPH AT | 33.739 | 5646. | 30.00 | 5574. | 4697. | 2204. | 38.72 |
| HYDROGRAPH AT | 32.797 | 3663. | 16.50 | 1858. | 651.  | 217.  | 3.71  |
| 2 COMBINED AT | 33.739 | 5646. | 30.00 | 5575. | 5008. | 2415. | 42.43 |

|               |        |       |       |       |       |       |       |
|---------------|--------|-------|-------|-------|-------|-------|-------|
| ROUTED TU     | 32.797 | 5406. | 40.00 | 5348. | 4866. | 2406. | 42.43 |
| DIVERSITY 10  | 32.797 | 0.    | 0.50  | 0.    | 0.    | 0.    | 42.43 |
| HYDROGRAPH AT | 32.797 | 5406. | 40.00 | 5348. | 4866. | 2406. | 42.43 |
| HYDROGRAPH AT | 31.702 | 2806. | 16.50 | 1585. | 532.  | 177.  | 3.03  |
| 2 COMBINED AT | 32.797 | 5807. | 16.50 | 5346. | 4988. | 2577. | 45.46 |
| ROUTED TU     | 31.702 | 5550. | 17.50 | 5333. | 4975. | 2571. | 45.46 |
| DIVERSITY 10  | 31.702 | 0.    | 0.50  | 0.    | 0.    | 0.    | 45.46 |
| HYDROGRAPH AT | 31.702 | 5550. | 17.50 | 5333. | 4975. | 2571. | 45.46 |
| HYDROGRAPH AT | 31.012 | 926.  | 16.50 | 602.  | 217.  | 72.   | 1.23  |
| 2 COMBINED AT | 31.702 | 6390. | 17.00 | 5784. | 5116. | 2638. | 46.69 |
| ROUTED TU     | 31.012 | 5928. | 19.00 | 5630. | 5085. | 2638. | 46.69 |
| DIVERSITY 10  | 31.012 | 0.    | 0.50  | 0.    | 0.    | 0.    | 46.69 |
| HYDROGRAPH AT | 31.012 | 5928. | 19.00 | 5630. | 5085. | 2638. | 46.69 |
| HYDROGRAPH AT | 30.197 | 1130. | 17.00 | 764.  | 283.  | 95.   | 1.61  |
| 2 COMBINED AT | 31.012 | 6696. | 18.50 | 6221. | 5263. | 2725. | 48.30 |
| ROUTED TU     | 30.197 | 6213. | 20.50 | 5980. | 5226. | 2725. | 48.30 |
| DIVERSITY 10  | 30.197 | 114.  | 20.50 | 103.  | 71.   | 29.   | 48.30 |
| HYDROGRAPH AT | 30.197 | 6099. | 20.50 | 5877. | 5155. | 2696. | 48.30 |
| HYDROGRAPH AT | 28.52  | 3490. | 16.50 | 2059. | 711.  | 237.  | 4.05  |
| 2 COMBINED AT | 30.197 | 7725. | 17.50 | 7203. | 5593. | 2916. | 52.35 |
| ROUTED TU     | 28.52  | 6932. | 21.50 | 6712. | 5530. | 2915. | 52.35 |
| DIVERSITY 10  | 28.52  | 358.  | 21.50 | 319.  | 167.  | 66.   | 52.35 |
| HYDROGRAPH AT | 28.52  | 6574. | 21.50 | 6393. | 5363. | 2849. | 52.35 |
| HYDROGRAPH AT | 21.105 | 3228. | 17.00 | 2166. | 793.  | 265.  | 4.53  |

|               |        |       |       |       |       |       |       |
|---------------|--------|-------|-------|-------|-------|-------|-------|
| < COMRINED AT | 28.52  | 7913. | 18.50 | 7645. | 5904. | 3094. | 56.88 |
| KNOTTED TO    | 21.105 | 7218. | 24.00 | 6992. | 5763. | 3090. | 56.88 |
| DIVISION IN   | 21105K | 561.  | 24.00 | 506.  | 281.  | 109.  | 56.88 |
| HYDROGRAPH AT | 21.105 | 6657. | 24.00 | 6486. | 5483. | 2981. | 56.88 |
| DIVISION IN   | 21105L | 0.    | 0.50  | 0.    | 0.    | 0.    | 56.88 |
| HYDROGRAPH AT | 21.105 | 6657. | 24.00 | 6486. | 5483. | 2981. | 56.88 |
| HYDROGRAPH AT | 21.105 | 5899. | 17.00 | 3962. | 1453. | 485.  | 8.33  |
| HYDROGRAPH AT | 21.105 | 0.    | 0.50  | 0.    | 0.    | 0.    | 46.69 |
| HYDROGRAPH AT | 21.105 | 114.  | 20.50 | 103.  | 71.   | 29.   | 48.30 |
| HYDROGRAPH AT | 21.105 | 358.  | 21.50 | 319.  | 167.  | 66.   | 52.35 |
| 4 COMRINED AT | 21.105 | 6015. | 17.00 | 4195. | 1652. | 588.  | 8.33  |
| HYDROGRAPH AT | 21.105 | 0.    | 0.50  | 0.    | 0.    | 0.    | 56.88 |
| 2 COMRINED AT | 21.105 | 6015. | 17.00 | 4195. | 1652. | 588.  | 8.33  |
| KNOTTED TO    | 00     | 2819. | 30.50 | 2696. | 1643. | 588.  | 8.33  |
| DIVISION IN   | 00T    | 56.   | 30.50 | 46.   | 13.   | 4.    | 8.33  |
| HYDROGRAPH AT | 00     | 2763. | 30.50 | 2650. | 1630. | 584.  | 8.33  |
| 2 COMRINED AT | 21.105 | 8988. | 28.50 | 8868. | 6829. | 3528. | 65.21 |
| HYDROGRAPH AT | 21.105 | 3653. | 16.50 | 2152. | 742.  | 248.  | 4.23  |
| KNOTTED TO    | 3.00   | 1435. | 28.50 | 1356. | 741.  | 248.  | 4.23  |
| HYDROGRAPH AT | 3.00   | 56.   | 30.50 | 46.   | 13.   | 4.    | 8.33  |
| < COMRINED AT | 3.00   | 1482. | 28.50 | 1394. | 755.  | 252.  | 4.23  |
| HYDROGRAPH AT | 3.00   | 1631. | 16.50 | 1053. | 378.  | 126.  | 2.15  |
| HYDROGRAPH AT | 00     | 1876. | 16.50 | 1252. | 457.  | 152.  | 2.60  |
| 3 COMRINED AT | 3.00   | 3925. | 16.50 | 2826. | 1574. | 528.  | 8.98  |

|               |        |        |       |        |        |       |       |
|---------------|--------|--------|-------|--------|--------|-------|-------|
| ROUTED TU     | 00     | 2846.  | 23.50 | 2585.  | 1568.  | 528.  | 0.98  |
| HYDROGRAPH AT | 00     | 1073.  | 16.50 | 685.   | 245.   | 82.   | 1.39  |
| 2 COMBINED AT | 00     | 3007.  | 23.50 | 2764.  | 1799.  | 608.  | 10.37 |
| 2 COMBINED AT | 21.105 | 11504. | 24.00 | 11075. | 8237.  | 4095. | 75.58 |
| HYDROGRAPH AT | 17.548 | 1305.  | 17.00 | 906.   | 347.   | 116.  | 1.98  |
| 2 COMBINED AT | 21.105 | 11763. | 24.00 | 11260. | 8459.  | 4201. | 77.56 |
| ROUTED TU     | 17.548 | 11229. | 28.00 | 11044. | 8432.  | 4199. | 77.56 |
| HYDROGRAPH AT | 17.548 | 2676.  | 16.50 | 1705.  | 609.   | 203.  | 3.47  |
| ROUTED TU     | 11.53  | 1801.  | 22.50 | 1459.  | 667.   | 203.  | 3.47  |
| HYDROGRAPH AT | 9.32   | 2842.  | 16.50 | 1875.  | 680.   | 227.  | 3.88  |
| 2 COMBINED AT | 11.53  | 3036.  | 17.00 | 2417.  | 1271.  | 429.  | 7.35  |
| ROUTED TU     | 11.53  | 2190.  | 27.00 | 2084.  | 1224.  | 429.  | 7.35  |
| HYDROGRAPH AT | 7.73   | 2180.  | 16.50 | 1415.  | 509.   | 170.  | 2.90  |
| 2 COMBINED AT | 9.32   | 2450.  | 16.50 | 2212.  | 1622.  | 597.  | 10.25 |
| ROUTED TU     | 7.73   | 2017.  | 35.50 | 1961.  | 1586.  | 597.  | 10.25 |
| HYDROGRAPH AT | 5.19   | 1627.  | 16.50 | 1075.  | 390.   | 130.  | 2.22  |
| 2 COMBINED AT | 7.73   | 2200.  | 17.00 | 1961.  | 1773.  | 725.  | 12.47 |
| ROUTED TU     | 5.19   | 1848.  | 45.50 | 1824.  | 1661.  | 725.  | 12.47 |
| HYDROGRAPH AT | 0.0    | 3116.  | 17.00 | 2208.  | 857.   | 287.  | 4.92  |
| 2 COMBINED AT | 5.19   | 3799.  | 17.00 | 3009.  | 2055.  | 1009. | 17.39 |
| HYDROGRAPH AT | 5.19   | 561.   | 24.00 | 506.   | 261.   | 109.  | 56.88 |
| 2 COMBINED AT | 5.19   | 3799.  | 17.00 | 3058.  | 2327.  | 1126. | 17.39 |
| ROUTED TU     | 0.0    | 2992.  | 25.00 | 2748.  | 2228.  | 1126. | 17.39 |
| 2 COMBINED AT | 17.548 | 13515. | 26.00 | 13311. | 10447. | 5223. | 94.95 |

|               |        |        |       |        |        |       |        |
|---------------|--------|--------|-------|--------|--------|-------|--------|
| HYDROGRAPH AI | 15.505 | 2368.  | 16.50 | 1422.  | 496.   | 165.  | 2.82   |
| 2 COMBINED AI | 17.548 | 13537. | 28.00 | 15342. | 10552. | 5362. | 97.77  |
| ROUTED TU     | 15.505 | 13466. | 29.50 | 13291. | 10542. | 5362. | 97.77  |
| HYDROGRAPH AI | 15.505 | 5306.  | 16.50 | 5933.  | 1234.  | 412.  | 7.06   |
| HYDROGRAPH AI | 9.10   | 6.     | 0.50  | 0.     | 0.     | 0.    | 2.48   |
| 2 COMBINED AI | 9.10   | 6306.  | 16.50 | 3433.  | 1234.  | 412.  | 7.06   |
| ROUTED TU     | 9.10   | 3656.  | 21.00 | 2894.  | 1215.  | 412.  | 7.06   |
| HYDROGRAPH AI | 7.62   | 3223.  | 16.50 | 1928.  | 670.   | 223.  | 3.82   |
| 2 COMBINED AI | 9.10   | 4438.  | 20.50 | 3496.  | 1816.  | 633.  | 10.88  |
| HYDROGRAPH AI | 9.10   | 65.    | 43.50 | 64.    | 55.    | 37.   | 3.55   |
| 2 COMBINED AI | 9.10   | 4445.  | 20.50 | 3503.  | 1832.  | 660.  | 10.88  |
| ROUTED TU     | 7.62   | 3453.  | 25.00 | 2635.  | 1205.  | 636.  | 10.68  |
| HYDROGRAPH AI | 6.50   | 2005.  | 17.00 | 1294.  | 460.   | 154.  | 2.62   |
| 2 COMBINED AI | 7.62   | 3661.  | 25.00 | 2744.  | 1425.  | 756.  | 13.50  |
| ROUTED TU     | 6.50   | 3193.  | 28.50 | 2554.  | 1312.  | 739.  | 13.50  |
| HYDROGRAPH AI | 0.0    | 5948.  | 16.50 | 3723.  | 1319.  | 440.  | 7.55   |
| 2 COMBINED AI | 6.50   | 5933.  | 16.50 | 3825.  | 2327.  | 1125. | 21.05  |
| HYDROGRAPH AI | 6.50   | 132.   | 85.50 | 132.   | 128.   | 96.   | 0.05   |
| 3 COMBINED AI | 6.50   | 5933.  | 16.50 | 3825.  | 2327.  | 1171. | 21.05  |
| HYDROGRAPH AI | 6.50   | 920.   | 22.00 | 546.   | 139.   | 46.   | 16.31  |
| 2 COMBINED AI | 6.50   | 5933.  | 16.50 | 4004.  | 2465.  | 1217. | 21.05  |
| ROUTED TU     | 0.0    | 4279.  | 21.50 | 3707.  | 2457.  | 1215. | 21.05  |
| 2 COMBINED AI | 15.505 | 15538. | 32.50 | 15198. | 12681. | 6484. | 118.62 |

|               |        |        |       |        |        |       |        |
|---------------|--------|--------|-------|--------|--------|-------|--------|
| HYDROGRAPH AT | 12.606 | 3178.  | 10.50 | 2033.  | 727.   | 243.  | 4.15   |
| 2 COMBINED AT | 15.505 | 15538. | 32.50 | 15210. | 12947. | 6695. | 122.97 |
| ROUTED TU     | 12.606 | 15499. | 33.50 | 15204. | 12937. | 6675. | 122.97 |
| 2 COMBINED AT | 12.606 | 16863. | 26.00 | 16696. | 14268. | 7225. | 139.28 |
| HYDROGRAPH AT | 9.586  | 2815.  | 17.00 | 1928.  | 729.   | 244.  | 4.17   |
| 2 COMBINED AT | 12.606 | 17141. | 25.50 | 16987. | 14650. | 7423. | 143.45 |
| HYDROGRAPH AT | 12.606 | 2651.  | 17.00 | 1855.  | 714.   | 239.  | 4.09   |
| HYDROGRAPH AT | 12.606 | 0.     | 0.50  | 0.     | 0.     | 0.    | 16.31  |
| 3 COMBINED AT | 12.606 | 17615. | 24.00 | 17349. | 15095. | 7625. | 147.54 |
| ROUTED TU     | 9.586  | 17515. | 26.50 | 17295. | 15012. | 7554. | 147.54 |
| HYDROGRAPH AT | 9.586  | 1925.  | 17.00 | 1371.  | 534.   | 179.  | 3.06   |
| HYDROGRAPH AT | 9.586  | 2716.  | 17.00 | 1914.  | 741.   | 248.  | 4.25   |
| HYDROGRAPH AT | 9.586  | 4757.  | 16.50 | 2991.  | 1062.  | 354.  | 6.07   |
| 4 COMBINED AT | 9.586  | 18464. | 25.00 | 18165. | 15972. | 8147. | 160.92 |
| ROUTED TU     | 5.857  | 18400. | 26.50 | 18125. | 15929. | 8076. | 160.92 |
| HYDROGRAPH AT | 5.857  | 5050.  | 17.00 | 3400.  | 1252.  | 418.  | 7.17   |
| HYDROGRAPH AT | 5.30   | 2538.  | 16.50 | 1453.  | 493.   | 164.  | 2.60   |
| HYDROGRAPH AT | 2.988  | 2395.  | 16.50 | 1358.  | 458.   | 153.  | 2.60   |
| 4 COMBINED AT | 5.857  | 19011. | 25.00 | 18743. | 16695. | 8624. | 173.49 |
| HYDROGRAPH AT | 2.988  | 1082.  | 16.50 | 629.   | 250.   | 85.   | 1.13   |
| 2 COMBINED AT | 5.857  | 19101. | 24.50 | 18815. | 16780. | 8684. | 174.62 |
| ROUTED TU     | 2.988  | 19080. | 25.50 | 18808. | 16755. | 8393. | 174.62 |
| HYDROGRAPH AT | 10.86  | 5841.  | 16.50 | 3672.  | 1303.  | 435.  | 7.46   |
| ROUTED TU     | 10.86  | 2961.  | 25.00 | 2671.  | 1300.  | 435.  | 7.46   |

|               |       |        |       |        |       |       |       |
|---------------|-------|--------|-------|--------|-------|-------|-------|
| HYDROGRAPH AT | 10.80 | 1915.  | 17.00 | 1322.  | 504.  | 169.  | 2.88  |
| HYDROGRAPH AT | 10.86 | 1662.  | 17.00 | 1141.  | 433.  | 145.  | 2.47  |
| HYDROGRAPH AT | 10.86 | 5775.  | 17.00 | 390R.  | 1452. | 485.  | 8.33  |
| ROUTED TU     | 0.00  | 2981.  | 26.00 | 2688.  | 1383. | 485.  | 8.33  |
| 4 COMBINED AT | 10.86 | 6370.  | 25.00 | 5741.  | 5532. | 1225. | 21.14 |
| HYDROGRAPH AT | 10.86 | 2917.  | 17.00 | 2148.  | 858.  | 289.  | 4.94  |
| HYDROGRAPH AT | 10.86 | 2061.  | 17.00 | 1394.  | 517.  | 173.  | 2.95  |
| 3 COMBINED AT | 10.86 | 9912.  | 17.00 | 7471.  | 4855. | 1679. | 29.03 |
| ROUTED TU     | 4.22  | 6686.  | 27.00 | 6588.  | 4816. | 1679. | 29.03 |
| HYDROGRAPH AT | 4.0   | 6777.  | 17.00 | 4757.  | 1836. | 615.  | 10.57 |
| ROUTED TU     | 4.0   | 2535.  | 30.50 | 2333.  | 1696. | 615.  | 10.57 |
| HYDROGRAPH AT | 0.0   | 4720.  | 16.50 | 3015.  | 1077. | 360.  | 6.16  |
| 2 COMBINED AT | 4.0   | 5464.  | 16.50 | 4066.  | 2543. | 971.  | 16.73 |
| ROUTED TU     | 0.0   | 4678.  | 20.50 | 3A24.  | 2499. | 971.  | 16.73 |
| HYDROGRAPH AT | 4.05  | 1133.  | 17.00 | 2120.  | 787.  | 263.  | 4.50  |
| ROUTED TU     | 4.05  | 2444.  | 18.00 | 2093.  | 785.  | 263.  | 4.50  |
| HYDROGRAPH AT | 4.05  | 2615.  | 17.00 | 1801.  | 686.  | 229.  | 3.92  |
| 2 COMBINED AT | 4.05  | 4823.  | 17.50 | 3814.  | 1462. | 491.  | 8.42  |
| ROUTED TU     | 0.0   | 2605.  | 29.00 | 2565.  | 1449. | 491.  | 8.42  |
| HYDROGRAPH AT | 0.0   | 2960.  | 17.00 | 2061.  | 791.  | 265.  | 4.53  |
| 4 COMBINED AT | 4.22  | 11932. | 21.00 | 11643. | 9071. | 3307. | 58.71 |
| ROUTED TU     | 0.0   | 11275. | 31.50 | 11140. | 871R. | 3304. | 58.71 |
| HYDROGRAPH AT | 5.53  | 726.   | 16.00 | 396.   | 151.  | 44.   | 0.74  |
| HYDROGRAPH AT | 5.53  | 1105.  | 16.50 | 715.   | 257.  | 86.   | 1.46  |

|                  |       |        |       |        |        |        |        |
|------------------|-------|--------|-------|--------|--------|--------|--------|
| HYDROGRAPH AT    | 5.53  | 1102.  | 16.50 | 624.   | 210.   | 70.    | 1.19   |
| 3 CONSTRAINED AT | 5.53  | 2912.  | 16.50 | 1721.  | 595.   | 199.   | 3.39   |
| KNOTTED TO       | 3.92  | 1861.  | 21.50 | 1531.  | 584.   | 199.   | 3.39   |
| HYDROGRAPH AT    | 3.92  | 1293.  | 17.00 | 884.   | 334.   | 112.   | 1.90   |
| HYDROGRAPH AT    | 3.92  | 3282.  | 16.50 | 2063.  | 733.   | 244.   | 4.18   |
| 5 CONSTRAINED AT | 3.92  | 5424.  | 16.50 | 4075.  | 1624.  | 551.   | 9.47   |
| HYDROGRAPH AT    | 3.92  | 1806.  | 16.50 | 1162.  | 417.   | 139.   | 2.37   |
| HYDROGRAPH AT    | 3.92  | 1306.  | 16.50 | 794.   | 276.   | 93.    | 1.58   |
| 5 CONSTRAINED AT | 3.92  | 8500.  | 16.50 | 5962.  | 2308.  | 780.   | 13.42  |
| KNOTTED TO       | 2.25  | 6879.  | 19.50 | 5043.  | 2176.  | 780.   | 13.42  |
| HYDROGRAPH AT    | 2.25  | 2213.  | 16.50 | 1257.  | 424.   | 141.   | 2.41   |
| 2 CONSTRAINED AT | 2.25  | 7578.  | 19.50 | 5419.  | 2524.  | 919.   | 15.83  |
| KNOTTED TO       | 0.0   | 5375.  | 23.50 | 4508.  | 2346.  | 915.   | 15.83  |
| HYDROGRAPH AT    | 2.988 | 1152.  | 16.50 | 710.   | 250.   | 84.    | 1.42   |
| 4 CONSTRAINED AT | 2.988 | 32770. | 27.50 | 32166. | 26596. | 12405. | 250.58 |
| HYDROGRAPH AT    | 2.988 | 3196.  | 16.50 | 1977.  | 698.   | 233.   | 3.98   |
| HYDROGRAPH AT    | 2.988 | 3217.  | 16.50 | 2108.  | 762.   | 254.   | 4.35   |
| HYDROGRAPH AT    | 2.988 | 1524.  | 16.50 | 1020.  | 427.   | 147.   | 1.96   |
| 4 CONSTRAINED AT | 2.988 | 33075. | 27.00 | 32504. | 27118. | 12854. | 260.87 |
| KNOTTED TO       | 0.0   | 33629. | 28.50 | 32464. | 26874. | 12098. | 260.87 |

\*\*\* NORMAL END OF REPORT \*\*\*

**APPENDIX 2**  
**HEC-2 WATER SURFACE PROFILES**

## CLEAR CHTER

## SUMMARY PRINTOUT Table 150

## EXISTING WATERSHED CONDITIONS WITHOUT PROPOSED IMPROVEMENTS

| STATION | XLSH   | FLRD | FLLC | FLMIN  | Q        | CWSEL | CRWS | EG   | 10K+S | VCH  | AREA    | .01K     |
|---------|--------|------|------|--------|----------|-------|------|------|-------|------|---------|----------|
| 0.03d   | 0.00   | 0.00 | 0.00 | -22.40 | 21382.00 | 2.00  | 0.00 | 2.38 | 2.44  | 4.96 | 4311.35 | 13679.01 |
| 10-YEAR | 0.03d  | 0.00 | 0.00 | -22.40 | 27926.00 | 2.00  | 0.00 | 2.65 | 4.17  | 6.48 | 4311.35 | 13679.01 |
| 0.03d   | 0.00   | 0.00 | 0.00 | -22.40 | 32315.00 | 2.00  | 0.00 | 2.87 | 5.58  | 7.50 | 4311.35 | 13679.01 |
| 0.03d   | 0.00   | 0.00 | 0.00 | -22.40 | 36584.00 | 2.00  | 0.00 | 3.12 | 7.15  | 8.49 | 4311.35 | 13679.01 |
| 0.03d   | 0.00   | 0.00 | 0.00 | -22.40 | 40736.00 | 2.00  | 0.00 | 3.39 | 8.87  | 9.45 | 4311.35 | 13679.01 |
| 0.03d   | 0.00   | 0.00 | 0.00 | -22.40 | 40736.00 | 2.00  | 0.00 | 3.39 | 8.87  | 9.45 | 4311.35 | 13679.01 |
| 0.07b   | 200.00 | 0.00 | 0.00 | -22.40 | 21382.00 | 2.05  | 0.00 | 2.43 | 2.42  | 4.95 | 4323.37 | 13739.27 |
| 0.07b   | 200.00 | 0.00 | 0.00 | -22.40 | 27926.00 | 2.09  | 0.00 | 2.73 | 4.11  | 6.45 | 4331.85 | 13781.84 |
| 0.07b   | 200.00 | 0.00 | 0.00 | -22.40 | 32315.00 | 2.12  | 0.00 | 2.98 | 5.46  | 7.45 | 4340.16 | 13823.57 |
| 0.07b   | 200.00 | 0.00 | 0.00 | -22.40 | 36584.00 | 2.16  | 0.00 | 3.26 | 6.95  | 8.41 | 4351.60 | 13881.12 |
| 0.07b   | 200.00 | 0.00 | 0.00 | -22.40 | 40736.00 | 2.21  | 0.00 | 3.56 | 8.54  | 9.34 | 4362.99 | 13938.52 |
| 0.07b   | 200.00 | 0.00 | 0.00 | -22.40 | 40736.00 | 2.21  | 0.00 | 3.56 | 8.54  | 9.34 | 4362.99 | 13938.52 |
| 0.114   | 200.00 | 0.00 | 0.00 | -22.40 | 21382.00 | 2.10  | 0.00 | 2.48 | 2.40  | 4.93 | 4335.86 | 13801.97 |
| 0.114   | 200.00 | 0.00 | 0.00 | -22.40 | 27926.00 | 2.18  | 0.00 | 2.82 | 4.04  | 6.41 | 4353.72 | 13891.80 |
| 0.114   | 200.00 | 0.00 | 0.00 | -22.40 | 32315.00 | 2.24  | 0.00 | 3.09 | 5.35  | 7.39 | 4370.05 | 13974.13 |
| 0.114   | 200.00 | 0.00 | 0.00 | -22.40 | 36584.00 | 2.32  | 0.00 | 3.40 | 6.77  | 8.34 | 4388.15 | 14065.52 |
| 0.114   | 200.00 | 0.00 | 0.00 | -22.40 | 40736.00 | 2.41  | 0.00 | 3.73 | 8.24  | 9.23 | 4412.43 | 14188.48 |
| 0.114   | 200.00 | 0.00 | 0.00 | -22.40 | 40736.00 | 2.41  | 0.00 | 3.73 | 8.24  | 9.23 | 4412.43 | 14188.48 |
| 0.152   | 200.00 | 0.00 | 0.00 | -22.40 | 21382.00 | 2.15  | 0.00 | 2.53 | 2.38  | 4.92 | 4348.21 | 13864.05 |
| 0.152   | 200.00 | 0.00 | 0.00 | -22.40 | 27926.00 | 2.27  | 0.00 | 2.90 | 3.98  | 6.38 | 4375.20 | 14000.09 |
| 0.152   | 200.00 | 0.00 | 0.00 | -22.40 | 32315.00 | 2.36  | 0.00 | 3.20 | 5.24  | 7.35 | 4398.01 | 14115.42 |
| 0.152   | 200.00 | 0.00 | 0.00 | -22.40 | 36584.00 | 2.47  | 0.00 | 3.54 | 6.58  | 8.27 | 4425.89 | 14256.81 |
| 0.152   | 200.00 | 0.00 | 0.00 | -22.40 | 40736.00 | 2.60  | 0.00 | 3.90 | 7.97  | 9.13 | 4459.88 | 14429.80 |
| 0.152   | 200.00 | 0.00 | 0.00 | -22.40 | 40736.00 | 2.60  | 0.00 | 3.90 | 7.97  | 9.13 | 4459.88 | 14429.80 |
| 0.190   | 203.00 | 0.00 | 0.00 | -21.50 | 21382.00 | 2.32  | 0.00 | 2.57 | 1.40  | 4.08 | 5236.15 | 18062.59 |
| 0.190   | 203.00 | 0.00 | 0.00 | -21.50 | 27926.00 | 2.55  | 0.00 | 2.98 | 2.31  | 5.27 | 5295.86 | 18387.44 |
| 0.190   | 203.00 | 0.00 | 0.00 | -21.50 | 32315.00 | 2.74  | 0.00 | 3.30 | 3.00  | 6.04 | 5345.80 | 18660.57 |
| 0.190   | 203.00 | 0.00 | 0.00 | -21.50 | 36584.00 | 2.95  | 0.00 | 3.67 | 3.72  | 6.77 | 5402.33 | 18971.42 |
| 0.190   | 203.00 | 0.00 | 0.00 | -21.50 | 40736.00 | 3.20  | 0.00 | 4.06 | 4.45  | 7.45 | 5465.09 | 19318.43 |
| 0.190   | 203.00 | 0.00 | 0.00 | -21.50 | 40736.00 | 3.20  | 0.00 | 4.06 | 4.45  | 7.45 | 5465.09 | 19318.43 |
| 0.236   | 255.00 | 0.00 | 0.00 | -22.30 | 21382.00 | 2.42  | 0.00 | 2.61 | 1.02  | 3.50 | 6114.17 | 21200.39 |

|       |        |      |      |        |          |      |      |      |      |      |
|-------|--------|------|------|--------|----------|------|------|------|------|------|
| 0.238 | 255,00 | 0,00 | 0,00 | -22,30 | 27926,00 | 2,72 | 0,00 | 3,04 | 1,65 | 4,50 |
| 0.238 | 255,00 | 0,00 | 0,00 | -22,30 | 32315,00 | 2,97 | 0,00 | 3,38 | 2,13 | 5,14 |
| 0.238 | 255,00 | 0,00 | 0,00 | -22,30 | 36584,00 | 3,25 | 0,00 | 3,76 | 2,61 | 5,74 |
| 0.238 | 255,00 | 0,00 | 0,00 | -22,30 | 40736,00 | 3,56 | 0,00 | 4,18 | 3,09 | 6,30 |
| 0.238 | 255,00 | 0,00 | 0,00 | -22,30 | 40736,00 | 3,56 | 0,00 | 4,18 | 3,09 | 6,30 |

| SECN# | YLCH   | FLTRD | FLLC  | FLMIN  | U        | CWSEL | CRWS | EG   | 10K*S | VCH  | AREA    | .01K     |
|-------|--------|-------|-------|--------|----------|-------|------|------|-------|------|---------|----------|
| 0.302 | 355.00 | 0.00  | 0.00  | -23.80 | 21382.00 | 2.44  | 0.00 | 2.66 | 1.14  | 3.74 | 5075.40 | 20067.47 |
| 0.302 | 355.00 | 0.00  | 0.00  | -23.80 | 27926.00 | 2.75  | 0.00 | 3.11 | 1.84  | 4.81 | 6020.32 | 20590.52 |
| 0.302 | 335.00 | 0.00  | 0.00  | -23.80 | 32315.00 | 3.01  | 0.00 | 3.48 | 2.36  | 5.49 | 6145.73 | 21027.55 |
| 0.302 | 355.00 | 0.00  | 0.00  | -23.80 | 36584.00 | 3.30  | 0.00 | 3.88 | 2.89  | 6.13 | 6292.24 | 21522.41 |
| 0.302 | 355.00 | 0.00  | 0.00  | -23.80 | 40736.00 | 3.61  | 0.00 | 4.31 | 3.41  | 6.71 | 6460.42 | 22073.02 |
| 0.302 | 355.00 | 0.00  | 0.00  | -23.80 | 40736.00 | 3.61  | 0.00 | 4.31 | 3.41  | 6.71 | 6460.42 | 22073.02 |
| 0.363 | 325.00 | 0.00  | 0.00  | -23.80 | 19506.00 | 2.42  | 0.00 | 2.77 | 2.18  | 4.73 | 4119.70 | 13216.16 |
| 0.363 | 325.00 | 0.00  | 0.00  | -23.80 | 26735.00 | 2.70  | 0.00 | 3.33 | 3.91  | 6.39 | 4184.82 | 13512.24 |
| 0.363 | 325.00 | 0.00  | 0.00  | -23.80 | 30735.00 | 2.95  | 0.00 | 3.76 | 4.98  | 7.24 | 4242.95 | 13777.92 |
| 0.363 | 325.00 | 0.00  | 0.00  | -23.80 | 35078.00 | 3.21  | 0.00 | 4.24 | 6.22  | 8.15 | 4305.51 | 14065.32 |
| 0.363 | 325.00 | 0.00  | 0.00  | -23.80 | 39472.00 | 3.49  | 0.00 | 4.76 | 7.53  | 9.02 | 4374.20 | 14382.66 |
| 0.363 | 325.00 | 0.00  | 0.00  | -23.80 | 39472.00 | 3.49  | 0.00 | 4.76 | 7.53  | 9.02 | 4374.20 | 14382.66 |
| 0.387 | 125.00 | 0.00  | 0.00  | -37.40 | 19506.00 | 2.72  | 0.00 | 2.85 | 0.98  | 2.94 | 7446.13 | 19752.64 |
| 0.387 | 125.00 | 0.00  | 0.00  | -37.40 | 26735.00 | 3.26  | 0.00 | 3.49 | 1.61  | 3.67 | 8054.46 | 21085.61 |
| 0.387 | 125.00 | 0.00  | 0.00  | -37.40 | 30735.00 | 3.68  | 0.00 | 3.96 | 1.92  | 4.30 | 8547.66 | 22186.80 |
| 0.387 | 125.00 | 0.00  | 0.00  | -37.40 | 35078.00 | 4.16  | 0.00 | 4.49 | 2.23  | 4.72 | 9112.74 | 23502.04 |
| 0.387 | 125.00 | 0.00  | 0.00  | -37.40 | 39472.00 | 4.69  | 0.00 | 5.07 | 2.49  | 5.10 | 9734.87 | 25014.06 |
| 0.387 | 125.00 | 0.00  | 0.00  | -37.40 | 39472.00 | 4.69  | 0.00 | 5.07 | 2.49  | 5.10 | 9734.87 | 25014.06 |
| 0.388 | 1.00   | 5.30  | 23.40 | -37.40 | 19506.00 | 2.73  | 0.00 | 2.86 | 0.94  | 2.90 | 7433.48 | 20079.54 |
| 0.388 | 1.00   | 5.30  | 23.40 | -37.40 | 26735.00 | 3.28  | 0.00 | 3.49 | 1.52  | 3.77 | 8064.41 | 21674.67 |
| 0.388 | 1.00   | 5.30  | 23.40 | -37.40 | 30735.00 | 3.71  | 0.00 | 3.97 | 1.78  | 4.15 | 8571.68 | 23014.94 |
| 0.388 | 1.00   | 5.30  | 23.40 | -37.40 | 35078.00 | 4.21  | 0.00 | 4.50 | 2.02  | 4.51 | 9155.80 | 24652.21 |
| 0.388 | 1.00   | 5.30  | 23.40 | -37.40 | 39472.00 | 4.76  | 0.00 | 5.09 | 2.21  | 4.81 | 9801.24 | 26570.48 |
| 0.388 | 1.00   | 5.30  | 23.40 | -37.40 | 39472.00 | 4.76  | 0.00 | 5.09 | 2.21  | 4.81 | 9801.24 | 26570.48 |
| 0.395 | 41.00  | 5.30  | 23.40 | -37.40 | 19506.00 | 2.73  | 0.00 | 2.86 | 0.94  | 2.89 | 7446.49 | 20111.86 |
| 0.395 | 41.00  | 5.30  | 23.40 | -37.40 | 26735.00 | 3.29  | 0.00 | 3.50 | 1.52  | 3.76 | 8071.86 | 21693.79 |
| 0.395 | 41.00  | 5.30  | 23.40 | -37.40 | 30735.00 | 3.72  | 0.00 | 3.97 | 1.78  | 4.15 | 8580.58 | 23039.15 |
| 0.395 | 41.00  | 5.30  | 23.40 | -37.40 | 35078.00 | 4.22  | 0.00 | 4.51 | 2.02  | 4.51 | 9166.03 | 24681.74 |
| 0.395 | 41.00  | 5.30  | 23.40 | -37.40 | 39472.00 | 4.77  | 0.00 | 5.10 | 2.20  | 4.80 | 9812.55 | 26605.05 |
| 0.395 | 41.00  | 5.30  | 23.40 | -37.40 | 39472.00 | 4.77  | 0.00 | 5.10 | 2.20  | 4.80 | 9812.55 | 26605.05 |
| 0.396 | 1.00   | 0.00  | 0.00  | -37.40 | 19506.00 | 2.73  | 0.00 | 2.86 | 0.94  | 2.89 | 7464.54 | 20117.63 |
| 0.396 | 1.00   | 0.00  | 0.00  | -37.40 | 26735.00 | 3.29  | 0.00 | 3.50 | 1.52  | 3.76 | 8095.38 | 21702.01 |
| 0.396 | 1.00   | 0.00  | 0.00  | -37.40 | 30735.00 | 3.72  | 0.00 | 3.97 | 1.78  | 4.15 | 8607.58 | 23049.50 |
| 0.396 | 1.00   | 0.00  | 0.00  | -37.40 | 35078.00 | 4.22  | 0.00 | 4.51 | 2.02  | 4.50 | 9195.89 | 24693.85 |
| 0.396 | 1.00   | 0.00  | 0.00  | -37.40 | 39472.00 | 4.77  | 0.00 | 5.10 | 2.20  | 4.80 | 9844.16 | 26617.88 |
| 0.396 | 1.00   | 0.00  | 0.00  | -37.40 | 39472.00 | 4.77  | 0.00 | 5.10 | 2.20  | 4.80 | 9844.16 | 26617.88 |



| STERNO | XLFTH   | FLTRD | FLLC   | FLMIN    | U        | CWSEL | CRWS | EG   | 10K*S | VCH     | AREA              | .01K     |
|--------|---------|-------|--------|----------|----------|-------|------|------|-------|---------|-------------------|----------|
| 0.461  | 174.00  | 0.00  | 0.00   | -24.00   | 19506.00 | 2.74  | 0.00 | 2.93 | 1.14  | 3.54    | 5505.19           | 18230.40 |
| 0.461  | 174.00  | 0.00  | 0.00   | -24.00   | 26735.00 | 3.26  | 0.00 | 3.63 | 1.94  | 4.71    | 5674.78           | 19175.95 |
| 0.461  | 174.00  | 0.00  | 0.00   | -24.00   | 30735.00 | 3.71  | 0.00 | 4.14 | 2.38  | 5.29    | 5805.58           | 19918.31 |
| 0.461  | 174.00  | 0.00  | 0.00   | -24.00   | 35078.00 | 4.19  | 0.00 | 4.73 | 2.84  | 5.89    | 5956.01           | 20797.50 |
| 0.461  | 174.00  | 0.00  | 0.00   | -24.00   | 39472.00 | 4.72  | 0.00 | 5.36 | 3.29  | 6.45    | 6121.29           | 21756.16 |
| 0.461  | 174.00  | 0.00  | -24.00 | 39472.00 | 4.72     | 0.00  | 5.36 | 3.29 | 6.45  | 6121.29 | 21756.16          |          |
| 0.464  | 16.00   | 5.30  | 24.00  | -24.00   | 19236.00 | 2.81  | 0.00 | 3.00 | 1.10  | 3.48    | 5529.77           | 18366.24 |
| 0.464  | 16.00   | 5.30  | 24.00  | -24.00   | 26382.00 | 3.42  | 0.00 | 3.75 | 1.84  | 4.61    | 5720.06           | 19431.68 |
| 0.464  | 16.00   | 5.30  | 24.00  | -24.00   | 30332.00 | 3.89  | 0.00 | 4.31 | 2.24  | 5.17    | 5865.37           | 20261.37 |
| 0.464  | 16.00   | 5.30  | 24.00  | -24.00   | 34619.00 | 4.43  | 0.00 | 4.94 | 2.66  | 5.74    | 6031.88           | 21229.08 |
| 0.464  | 16.00   | 5.30  | 24.00  | -24.00   | 38967.00 | 6.12  | 0.00 | 6.31 | 1.23  | 4.13    | 23312.76          | 35108.69 |
| 0.464  | 16.00   | 5.30  | 24.00  | -24.00   | 38967.00 | 6.12  | 0.00 | 6.31 | 1.23  | 4.13    | 23312.76          | 35108.69 |
| 0.512  | 256.00  | 0.00  | 0.00   | -22.00   | 19110.00 | 2.98  | 0.00 | 3.06 | 0.98  | 2.24    | 8857.61           | 19349.16 |
| 0.512  | 256.00  | 0.00  | 0.00   | -22.00   | 26215.00 | 3.73  | 0.00 | 3.66 | 1.42  | 2.84    | 9969.53           | 22032.53 |
| 0.512  | 256.00  | 0.00  | 0.00   | -22.00   | 30142.00 | 4.29  | 0.00 | 4.44 | 1.55  | 3.07    | 10876.15          | 24186.00 |
| 0.512  | 256.00  | 0.00  | 0.00   | -22.00   | 34403.00 | 4.94  | 0.00 | 5.10 | 1.64  | 3.28    | 11961.12          | 26831.43 |
| 0.512  | 256.00  | 0.00  | 0.00   | -22.00   | 38730.00 | 6.21  | 0.00 | 6.35 | 1.32  | 3.14    | 17195.00          | 33769.17 |
| 0.512  | 256.00  | 0.00  | 0.00   | -22.00   | 38730.00 | 6.21  | 0.00 | 6.35 | 1.32  | 3.14    | 17195.00          | 33769.17 |
| 0.802  | 1551.00 | 0.00  | 0.00   | -20.60   | 18448.00 | 3.06  | 0.00 | 3.14 | 0.34  | 2.27    | 8118.12           | 31408.67 |
| 0.802  | 1551.00 | 0.00  | 0.00   | -20.60   | 25346.00 | 3.85  | 0.00 | 3.99 | 0.57  | 2.98    | 8495.75           | 33700.61 |
| 0.802  | 1551.00 | 0.00  | 0.00   | -20.60   | 29156.00 | 4.42  | 0.00 | 4.59 | 0.68  | 3.32    | 8769.91           | 35408.14 |
| 0.802  | 1551.00 | 0.00  | 0.00   | -20.60   | 33277.00 | 5.08  | 0.00 | 5.28 | 0.79  | 3.66    | 9084.11           | 37398.62 |
| 0.802  | 1551.00 | 0.00  | 0.00   | -20.60   | 37491.00 | 6.32  | 0.00 | 6.55 | 0.82  | 3.86    | 10474.46          | 41423.36 |
| 0.802  | 1551.00 | 0.00  | 0.00   | -20.60   | 37491.00 | 6.32  | 0.00 | 6.55 | 0.82  | 3.86    | 10474.46          | 41423.36 |
| 1.262  | 2429.00 | 0.00  | 0.00   | -11.40   | 17153.00 | 3.23  | 0.00 | 3.30 | 0.96  | 2.11    | 8138.16           | 17529.22 |
| 1.262  | 2429.00 | 0.00  | 0.00   | -11.40   | 23644.00 | 4.13  | 0.00 | 4.23 | 1.32  | 2.56    | 9257.06           | 20563.27 |
| 1.262  | 2429.00 | 0.00  | 0.00   | -11.40   | 27222.00 | 4.83  | 0.00 | 4.93 | 1.96  | 2.64    | 10625.72          | 19427.49 |
| 1.262  | 2429.00 | 0.00  | 0.00   | -11.40   | 31068.00 | 5.51  | 0.00 | 5.62 | 1.74  | 2.68    | 12428.37          | 23585.39 |
| 1.262  | 2429.00 | 0.00  | 0.00   | -11.40   | 35066.00 | 6.74  | 0.00 | 6.83 | 1.19  | 2.50    | 16025.00          | 32095.66 |
| 1.262  | 2429.00 | 0.00  | 0.00   | -11.40   | 35066.00 | 6.74  | 0.00 | 6.83 | 1.19  | 2.50    | 16025.00          | 32095.66 |
| 1.396  | 713.00  | 0.00  | 0.00   | -9.60    | 17153.00 | 3.32  | 0.00 | 3.33 | 0.99  | 0.66    | 26024.41          | 56747.18 |
| 1.396  | 713.00  | 0.00  | 0.00   | -9.60    | 23644.00 | 4.26  | 0.00 | 4.27 | 0.11  | 0.80    | 29508.11          | 69933.36 |
| 1.396  | 713.00  | 0.00  | 0.00   | -9.60    | 27222.00 | 4.97  | 0.00 | 4.98 | 0.11  | 0.85    | 32131.76          | 80568.40 |
| 1.396  | 713.00  | 0.00  | 0.00   | -9.60    | 31068.00 | 5.65  | 0.00 | 5.66 | 0.12  | 0.90    | 34677.54          | 91446.51 |
| 1.396  | 713.00  | 0.00  | 0.00   | -9.60    | 35066.00 | 6.86  | 0.00 | 6.87 | 0.10  | 0.90    | 39170.98111943.80 | 0.90     |
| 1.396  | 713.00  | 0.00  | 0.00   | -9.60    | 35066.00 | 6.86  | 0.00 | 6.87 | 0.10  | 0.90    | 39170.98111943.80 | 0.90     |

|       |         |      |      |       |          |      |      |      |      |      |                   |          |
|-------|---------|------|------|-------|----------|------|------|------|------|------|-------------------|----------|
| 1.066 | 1426.00 | 0.00 | 0.00 | -9.60 | 17153.00 | 3.33 | 0.00 | 3.34 | 0.08 | 0.62 | 27903.21          | 61196.56 |
| 1.066 | 1426.00 | 0.00 | 0.00 | -9.60 | 23644.00 | 4.28 | 0.00 | 4.29 | 0.10 | 0.75 | 31644.69          | 75337.28 |
| 1.066 | 1426.00 | 0.00 | 0.00 | -9.60 | 27222.00 | 4.98 | 0.00 | 4.99 | 0.10 | 0.79 | 34461.77          | 86701.68 |
| 1.066 | 1426.00 | 0.00 | 0.00 | -9.60 | 31068.00 | 5.67 | 0.00 | 5.68 | 0.10 | 0.84 | 37203.52          | 98328.85 |
| 1.066 | 1426.00 | 0.00 | 0.00 | -9.60 | 35046.00 | 6.87 | 0.00 | 6.89 | 0.08 | 0.84 | 42781.48120308.65 |          |
| 1.066 | 1426.00 | 0.00 | 0.00 | -9.60 | 35066.00 | 6.87 | 0.00 | 6.89 | 0.08 | 0.84 | 42781.48120308.65 |          |

| SEC#: | YRCH    | FLTKD | FLLC | FLMIN | U        | CWSEL | CRWS | 10K*S | VCH  | AREA | .01K              |
|-------|---------|-------|------|-------|----------|-------|------|-------|------|------|-------------------|
| 1.878 | 1109.00 | 0.00  | 0.00 | -9.60 | 15541.00 | 3.34  | 0.00 | 3.36  | 0.19 | 0.88 | 17724.78 36102.25 |
| 1.878 | 1109.00 | 0.00  | 0.00 | -9.60 | 21525.00 | 4.29  | 0.00 | 4.31  | 0.22 | 1.06 | 20402.25 45468.32 |
| 1.878 | 1109.00 | 0.00  | 0.00 | -9.60 | 24814.00 | 4.99  | 0.00 | 5.01  | 0.22 | 1.11 | 22439.40 53033.39 |
| 1.878 | 1109.00 | 0.00  | 0.00 | -9.60 | 26320.00 | 5.68  | 0.00 | 5.70  | 0.22 | 1.17 | 24452.79 60820.02 |
| 1.878 | 1109.00 | 0.00  | 0.00 | -9.60 | 32045.00 | 6.88  | 0.00 | 6.90  | 0.18 | 1.16 | 28136.51 75547.46 |
| 1.878 | 1109.00 | 0.00  | 0.00 | -9.60 | 32045.00 | 6.88  | 0.00 | 6.90  | 0.18 | 1.16 | 28136.51 75547.46 |
| 2.278 | 2112.00 | 0.00  | 0.00 | -9.60 | 14536.00 | 3.37  | 0.00 | 3.37  | 0.05 | 0.47 | 31285.20 64936.73 |
| 2.278 | 2112.00 | 0.00  | 0.00 | -9.60 | 20205.00 | 4.32  | 0.00 | 4.33  | 0.06 | 0.57 | 35883.10 81400.00 |
| 2.278 | 2112.00 | 0.00  | 0.00 | -9.60 | 23315.00 | 5.03  | 0.00 | 5.03  | 0.06 | 0.60 | 39309.74 94575.18 |
| 2.278 | 2112.00 | 0.00  | 0.00 | -9.60 | 26608.00 | 5.72  | 0.00 | 5.72  | 0.06 | 0.63 | 42646.18108112.32 |
| 2.278 | 2112.00 | 0.00  | 0.00 | -9.60 | 30164.00 | 6.91  | 0.00 | 6.92  | 0.05 | 0.63 | 48533.39133513.41 |
| 2.278 | 2112.00 | 0.00  | 0.00 | -9.60 | 30164.00 | 6.91  | 0.00 | 6.92  | 0.05 | 0.63 | 48533.39133513.41 |
| 2.588 | 1637.00 | 0.00  | 0.00 | -9.60 | 13717.00 | 3.38  | 0.00 | 3.38  | 0.07 | 0.63 | 21807.86 50270.46 |
| 2.588 | 1637.00 | 0.00  | 0.00 | -9.60 | 19127.00 | 4.33  | 0.00 | 4.34  | 0.10 | 0.78 | 24551.90 61128.76 |
| 2.588 | 1637.00 | 0.00  | 0.00 | -9.60 | 22091.00 | 5.04  | 0.00 | 5.05  | 0.10 | 0.83 | 26590.92 69705.63 |
| 2.588 | 1637.00 | 0.00  | 0.00 | -9.60 | 25211.00 | 5.72  | 0.00 | 5.74  | 0.10 | 0.88 | 28577.08 78460.05 |
| 2.588 | 1637.00 | 0.00  | 0.00 | -9.60 | 28629.00 | 6.92  | 0.00 | 6.93  | 0.09 | 0.90 | 32057.34 94712.11 |
| 2.588 | 1637.00 | 0.00  | 0.00 | -9.60 | 28629.00 | 6.92  | 0.00 | 6.93  | 0.09 | 0.90 | 32057.34 94712.11 |
| 2.878 | 1531.00 | 0.00  | 0.00 | -9.60 | 12950.00 | 3.39  | 0.00 | 3.39  | 0.02 | 0.37 | 34755.74 84108.99 |
| 2.878 | 1531.00 | 0.00  | 0.00 | -9.60 | 18119.00 | 4.35  | 0.00 | 4.35  | 0.03 | 0.47 | 38814.32100977.66 |
| 2.878 | 1531.00 | 0.00  | 0.00 | -9.60 | 20947.00 | 5.05  | 0.00 | 5.06  | 0.03 | 0.50 | 41822.04114226.90 |
| 2.878 | 1531.00 | 0.00  | 0.00 | -9.60 | 23793.00 | 5.74  | 0.00 | 5.74  | 0.04 | 0.54 | 44748.82127706.67 |
| 2.878 | 1531.00 | 0.00  | 0.00 | -9.60 | 27193.00 | 6.94  | 0.00 | 6.94  | 0.03 | 0.55 | 49901.53152622.03 |
| 2.878 | 1531.00 | 0.00  | 0.00 | -9.60 | 27193.00 | 6.94  | 0.00 | 6.94  | 0.03 | 0.55 | 49901.53152622.03 |
| 3.368 | 2587.00 | 0.00  | 0.00 | -9.60 | 10998.00 | 3.39  | 0.00 | 3.40  | 0.02 | 0.35 | 31873.58 72196.30 |
| 3.368 | 2587.00 | 0.00  | 0.00 | -9.60 | 16268.00 | 4.35  | 0.00 | 4.36  | 0.03 | 0.45 | 35995.60 88403.88 |
| 3.368 | 2587.00 | 0.00  | 0.00 | -9.60 | 18714.00 | 5.06  | 0.00 | 5.07  | 0.03 | 0.48 | 39038.23101166.12 |
| 3.368 | 2587.00 | 0.00  | 0.00 | -9.60 | 21528.00 | 5.75  | 0.00 | 5.75  | 0.04 | 0.51 | 42042.23114212.72 |
| 3.368 | 2587.00 | 0.00  | 0.00 | -9.60 | 24814.00 | 6.95  | 0.00 | 6.95  | 0.03 | 0.53 | 47410.54138404.50 |
| 3.368 | 2587.00 | 0.00  | 0.00 | -9.60 | 24814.00 | 6.95  | 0.00 | 6.95  | 0.03 | 0.53 | 47410.54138404.50 |
| 3.798 | 2271.00 | 0.00  | 0.00 | -9.60 | 10998.00 | 3.40  | 0.00 | 3.40  | 0.03 | 0.39 | 28067.29 62808.11 |
| 3.798 | 2271.00 | 0.00  | 0.00 | -9.60 | 16268.00 | 4.36  | 0.00 | 4.37  | 0.04 | 0.51 | 31818.08 77167.08 |
| 3.798 | 2271.00 | 0.00  | 0.00 | -9.60 | 18714.00 | 5.07  | 0.00 | 5.08  | 0.04 | 0.54 | 34602.66 88484.36 |
| 3.798 | 2271.00 | 0.00  | 0.00 | -9.60 | 21528.00 | 5.76  | 0.00 | 5.76  | 0.05 | 0.58 | 37330.1210066.75  |
| 3.798 | 2271.00 | 0.00  | 0.00 | -9.60 | 24814.00 | 6.95  | 0.00 | 6.96  | 0.04 | 0.60 | 42118.55121545.12 |
| 3.798 | 2271.00 | 0.00  | 0.00 | -9.60 | 24814.00 | 6.95  | 0.00 | 6.96  | 0.04 | 0.60 | 42118.55121545.12 |

|       |         |      |       |          |      |      |      |      |      |
|-------|---------|------|-------|----------|------|------|------|------|------|
| 3.98b | 1003.00 | 0.00 | -9.60 | 10998.00 | 3.40 | 0.00 | 3.41 | 0.15 | 0.80 |
| 3.98b | 1003.00 | 0.00 | -9.60 | 10268.00 | 4.36 | 0.00 | 4.38 | 0.21 | 1.03 |
| 3.98b | 1003.00 | 0.00 | -9.60 | 10714.00 | 5.07 | 0.00 | 5.09 | 0.20 | 1.08 |
| 3.98b | 1003.00 | 0.00 | -9.60 | 21528.00 | 5.76 | 0.00 | 5.78 | 0.20 | 1.14 |
| 3.98d | 1003.00 | 0.00 | -9.60 | 24814.00 | 6.95 | 0.00 | 6.97 | 0.18 | 1.16 |
| 3.98b | 1003.00 | 0.00 | -9.60 | 24814.00 | 6.95 | 0.00 | 6.97 | 0.16 | 1.16 |

A-FER-R5 17:31:09

| STC#  | XLCH    | FLTRD | ELIC | ELMIN  | W        | CWSEL | CHWS | VCH  | AREA     |          | •01K     |
|-------|---------|-------|------|--------|----------|-------|------|------|----------|----------|----------|
|       |         |       |      |        |          |       |      |      | 10K*     | 10K\$    |          |
| 4.556 | 1954.00 | 0.00  | 0.00 | -9.60  | 10998.00 | 3.44  | 0.00 | 0.94 | 11732.78 | 21546.34 |          |
| 4.556 | 1954.00 | 0.00  | 0.00 | -9.60  | 16268.00 | 4.41  | 0.00 | 1.18 | 13861.68 | 28408.31 |          |
| 4.556 | 1954.00 | 0.00  | 0.00 | -9.60  | 18714.00 | 5.12  | 0.00 | 1.22 | 15392.39 | 33787.27 |          |
| 4.556 | 1954.00 | 0.00  | 0.00 | -9.60  | 21528.00 | 5.80  | 0.00 | 1.28 | 16885.61 | 39376.79 |          |
| 4.556 | 1954.00 | 0.00  | 0.00 | -9.60  | 24814.00 | 6.99  | 0.00 | 1.28 | 19458.27 | 49753.79 |          |
| 4.358 | 1954.00 | 0.00  | 0.00 | -9.60  | 24814.00 | 6.99  | 0.00 | 1.25 | 19458.27 | 49753.79 |          |
| 4.358 | 1954.00 | 0.00  | 0.00 | -9.60  | 24814.00 | 7.01  |      |      |          |          |          |
| 4.358 | 1954.00 | 0.00  | 0.00 | -9.60  | 24814.00 |       |      |      |          |          |          |
| 4.606 | 1320.00 | 0.00  | 0.00 | -13.60 | 10998.00 | 3.48  | 0.00 | 3.57 | 1.48     | 4497.18  | 9032.20  |
| 4.606 | 1320.00 | 0.00  | 0.00 | -13.60 | 16268.00 | 4.45  | 0.00 | 4.61 | 2.00     | 3.12     | 5215.19  |
| 4.606 | 1320.00 | 0.00  | 0.00 | -14.20 | 18714.00 | 5.17  | 0.00 | 5.20 | 0.27     | 1.23     | 14103.27 |
| 4.606 | 1320.00 | 0.00  | 0.00 | -14.20 | 21528.00 | 5.86  | 0.00 | 5.89 | 0.28     | 1.33     | 15663.12 |
| 4.606 | 1320.00 | 0.00  | 0.00 | -14.20 | 24814.00 | 7.04  | 0.00 | 7.06 | 0.25     | 1.37     | 18963.66 |
| 4.606 | 1320.00 | 0.00  | 0.00 | -14.20 | 24814.00 | 7.04  | 0.00 | 7.06 | 0.25     | 1.37     | 18963.66 |
| 4.606 | 1320.00 | 0.00  | 0.00 | -9.60  | 24814.00 |       |      |      |          |          |          |
| 5.236 | 3326.00 | 0.00  | 0.00 | -9.20  | 10998.00 | 3.68  | 0.00 | 3.70 | 0.17     | 1.06     | 10360.63 |
| 5.236 | 3326.00 | 0.00  | 0.00 | -14.20 | 16268.00 | 4.69  | 0.00 | 4.70 | 0.09     | 0.82     | 20493.83 |
| 5.236 | 3326.00 | 0.00  | 0.00 | -14.20 | 18714.00 | 5.23  | 0.00 | 5.24 | 0.10     | 0.89     | 21993.13 |
| 5.236 | 3326.00 | 0.00  | 0.00 | -14.20 | 21528.00 | 5.92  | 0.00 | 5.93 | 0.10     | 0.96     | 23912.53 |
| 5.236 | 3326.00 | 0.00  | 0.00 | -14.20 | 24814.00 | 7.09  | 0.00 | 7.10 | 0.10     | 0.99     | 27174.31 |
| 5.236 | 3326.00 | 0.00  | 0.00 | -14.20 | 24814.00 | 7.09  | 0.00 | 7.10 | 0.10     | 0.99     | 27174.31 |
| 5.236 | 3326.00 | 0.00  | 0.00 | -9.20  | 10998.00 |       |      |      |          |          |          |
| 5.238 | 3326.00 | 0.00  | 0.00 | -12.80 | 16268.00 | 4.97  | 0.00 | 5.40 | 0.37     | 5.45     | 4939.87  |
| 5.238 | 3326.00 | 0.00  | 0.00 | -12.80 | 18714.00 | 5.51  | 0.00 | 5.99 | 0.38     | 5.58     | 5960.95  |
| 5.238 | 3326.00 | 0.00  | 0.00 | -12.80 | 21528.00 | 6.20  | 0.00 | 6.69 | 0.38     | 6.02     | 7402.87  |
| 5.238 | 3326.00 | 0.00  | 0.00 | -12.80 | 24814.00 | 7.32  | 0.00 | 7.75 | 0.32     | 5.85     | 10124.45 |
| 5.238 | 3326.00 | 0.00  | 0.00 | -12.80 | 24814.00 | 7.32  | 0.00 | 7.75 | 0.32     | 5.85     | 10124.45 |
| 5.827 | 3115.00 | 0.00  | 0.00 | -12.80 | 10998.00 | 3.75  | 0.00 | 4.04 | 2.51     | 4.35     | 3039.38  |
| 5.827 | 3115.00 | 0.00  | 0.00 | -12.80 | 16268.00 | 4.97  | 0.00 | 5.40 | 3.37     | 5.45     | 4939.87  |
| 5.827 | 3115.00 | 0.00  | 0.00 | -12.80 | 18714.00 | 5.51  | 0.00 | 5.99 | 3.58     | 5.58     | 5960.95  |
| 5.827 | 3115.00 | 0.00  | 0.00 | -12.80 | 21528.00 | 6.20  | 0.00 | 6.69 | 3.58     | 6.02     | 7402.87  |
| 5.827 | 3115.00 | 0.00  | 0.00 | -12.80 | 24814.00 | 7.32  | 0.00 | 7.75 | 3.02     | 5.85     | 10124.45 |
| 5.827 | 3115.00 | 0.00  | 0.00 | -12.80 | 24814.00 | 7.32  | 0.00 | 7.75 | 3.02     | 5.85     | 10124.45 |
| 5.827 | 3115.00 | 0.00  | 0.00 | -12.80 | 10998.00 |       |      |      |          |          |          |
| 6.027 | 1056.00 | 0.00  | 0.00 | -12.90 | 16268.00 | 5.57  | 0.00 | 5.65 | 0.86     | 2.66     | 9850.45  |
| 6.027 | 1056.00 | 0.00  | 0.00 | -12.90 | 18714.00 | 6.17  | 0.00 | 6.25 | 0.82     | 2.70     | 11493.38 |
| 6.027 | 1056.00 | 0.00  | 0.00 | -12.90 | 21528.00 | 6.87  | 0.00 | 6.94 | 0.77     | 2.71     | 13455.11 |
| 6.027 | 1056.00 | 0.00  | 0.00 | -12.90 | 24814.00 | 7.90  | 0.00 | 7.96 | 0.64     | 2.61     | 16385.77 |
| 6.027 | 1056.00 | 0.00  | 0.00 | -12.90 | 24814.00 | 7.90  | 0.00 | 7.96 | 0.64     | 2.61     | 16385.77 |
| 6.027 | 1056.00 | 0.00  | 0.00 | -10.10 | 10998.00 | 4.11  | 0.00 | 4.29 | 1.69     | 3.38     | 3434.13  |
| 6.027 | 1056.00 | 0.00  | 0.00 | -10.10 | 16268.00 | 5.57  | 0.00 | 5.65 | 0.86     | 2.66     | 9850.45  |
| 6.027 | 1056.00 | 0.00  | 0.00 | -10.10 | 18714.00 | 6.17  | 0.00 | 6.25 | 0.82     | 2.70     | 11493.38 |
| 6.027 | 1056.00 | 0.00  | 0.00 | -10.10 | 21528.00 | 6.87  | 0.00 | 6.94 | 0.77     | 2.71     | 13455.11 |
| 6.027 | 1056.00 | 0.00  | 0.00 | -10.10 | 24814.00 | 7.90  | 0.00 | 7.96 | 0.64     | 2.61     | 16385.77 |
| 6.027 | 1056.00 | 0.00  | 0.00 | -10.10 | 10998.00 |       |      |      |          |          |          |
| 6.238 | 1109.00 | 0.00  | 0.00 | -10.10 | 16268.00 | 5.69  | 0.00 | 5.80 | 2.64     | 3.82     | 5486.31  |
| 6.238 | 1109.00 | 0.00  | 0.00 | -10.10 | 18714.00 | 6.26  | 0.00 | 6.46 | 2.67     | 3.94     | 6365.22  |
| 6.238 | 1109.00 | 0.00  | 0.00 | -10.10 | 21528.00 | 6.97  | 0.00 | 7.14 | 2.55     | 4.01     | 7664.09  |
| 6.238 | 1109.00 | 0.00  | 0.00 | -10.10 | 24814.00 | 7.98  | 0.00 | 8.13 | 2.18     | 3.90     | 9577.58  |
| 6.238 | 1109.00 | 0.00  | 0.00 | -10.10 | 10998.00 |       |      |      |          |          |          |
| 6.238 | 1109.00 | 0.00  | 0.00 | -10.10 | 16268.00 |       |      |      |          |          |          |
| 6.238 | 1109.00 | 0.00  | 0.00 | -10.10 | 18714.00 |       |      |      |          |          |          |
| 6.238 | 1109.00 | 0.00  | 0.00 | -10.10 | 21528.00 |       |      |      |          |          |          |
| 6.238 | 1109.00 | 0.00  | 0.00 | -10.10 | 24814.00 |       |      |      |          |          |          |

|       |         |       |       |       |          |      |      |      |      |      |          |          |
|-------|---------|-------|-------|-------|----------|------|------|------|------|------|----------|----------|
| 6.176 | 2857.00 | 0.100 | 0.00  | -9.40 | 10998.00 | 4.95 | 0.00 | 5.10 | 2.10 | 3.17 | 43304.65 | 7581.31  |
| 6.176 | 2857.00 | 0.000 | 0.000 | -9.40 | 16268.00 | 6.33 | 0.00 | 6.55 | 2.71 | 3.94 | 5599.27  | 9884.09  |
| 6.176 | 2857.00 | 0.000 | 0.000 | -9.40 | 18714.00 | 6.91 | 0.00 | 7.17 | 2.91 | 4.23 | 6178.02  | 10972.76 |
| 6.176 | 2857.00 | 0.000 | 0.000 | -9.40 | 21528.00 | 7.57 | 0.00 | 7.86 | 3.08 | 4.52 | 6853.87  | 12274.51 |
| 6.176 | 2857.00 | 0.000 | 0.000 | -9.40 | 24814.00 | 8.49 | 0.00 | 8.80 | 3.05 | 4.73 | 7831.03  | 14217.94 |
| 6.176 | 2857.00 | 0.000 | 0.000 | -9.40 | 24814.00 | 8.49 | 0.00 | 8.80 | 3.05 | 4.73 | 7831.03  | 14217.94 |

| SECN# | XLC#H   | FLTKD | FLIC  | FLMIN  | U        | CASEL | CRWNS | EG   | 10K+S | VCH  | AREA     | .01K     |
|-------|---------|-------|-------|--------|----------|-------|-------|------|-------|------|----------|----------|
| 6.7AB | 50.0J   | 15.00 | 20.00 | -9.40  | 10998.00 | 4.96  | 0.00  | 5.11 | 2.10  | 3.17 | 4307.06  | 7585.39  |
| 6.7AB | 50.0J   | 15.00 | 20.00 | -9.40  | 16268.00 | 6.33  | 0.00  | 6.56 | 2.70  | 3.94 | 5603.82  | 9892.53  |
| 6.7AB | 50.0J   | 15.00 | 20.00 | -9.40  | 18714.00 | 6.92  | 0.00  | 7.17 | 2.90  | 4.23 | 6183.34  | 10982.89 |
| 6.7AB | 50.0J   | 15.00 | 20.00 | -9.40  | 21528.00 | 7.58  | 0.00  | 7.87 | 3.07  | 4.52 | 6860.04  | 12286.44 |
| 6.7AB | 50.0J   | 15.00 | 20.00 | -9.40  | 24814.00 | 8.50  | 0.00  | 8.81 | 3.04  | 4.73 | 7837.51  | 14231.32 |
| 6.7AB | 50.0J   | 15.00 | 20.00 | -9.40  | 24814.00 | 8.50  | 0.00  | 8.81 | 3.04  | 4.73 | 7837.51  | 14231.32 |
| 6.7AB | 50.0J   | 15.00 | 20.00 | -9.40  | 24814.00 | 8.50  | 0.00  | 8.81 | 3.04  | 4.73 | 7837.51  | 14231.32 |
| 6.9AB | 1039.0J | 0.00  | 0.00  | -9.40  | 10998.00 | 5.19  | 0.00  | 5.32 | 1.82  | 2.99 | 5535.32  | 8158.91  |
| 6.9AB | 1039.0J | 0.00  | 0.00  | -9.40  | 16268.00 | 6.65  | 0.00  | 6.82 | 2.06  | 3.51 | 8400.82  | 11338.35 |
| 6.9AB | 1039.0J | 0.00  | 0.00  | -9.40  | 18714.00 | 7.28  | 0.00  | 7.45 | 2.10  | 3.67 | 9686.04  | 12926.64 |
| 6.9AB | 1039.0J | 0.00  | 0.00  | -9.40  | 21528.00 | 7.98  | 0.00  | 8.16 | 2.10  | 3.82 | 11171.32 | 14861.93 |
| 6.9AB | 1039.0J | 0.00  | 0.00  | -9.40  | 24814.00 | 8.92  | 0.00  | 9.09 | 1.96  | 3.88 | 13290.52 | 17729.64 |
| 6.9AB | 1039.0J | 0.00  | 0.00  | -9.40  | 24814.00 | 8.92  | 0.00  | 9.09 | 1.96  | 3.88 | 13290.52 | 17729.64 |
| 6.9AB | 1039.0J | 0.00  | 0.00  | -9.40  | 24814.00 | 8.92  | 0.00  | 9.09 | 1.96  | 3.88 | 13290.52 | 17729.64 |
| 7.0AB | 596.0J  | 0.00  | 0.00  | -11.00 | 10998.00 | 5.33  | 0.00  | 5.35 | 0.22  | 1.12 | 10502.40 | 23524.02 |
| 7.0AB | 596.0J  | 0.00  | 0.00  | -11.00 | 16268.00 | 6.83  | 0.00  | 6.86 | 0.30  | 1.44 | 12354.11 | 29530.88 |
| 7.0AB | 596.0J  | 0.00  | 0.00  | -11.00 | 18714.00 | 7.46  | 0.00  | 7.50 | 0.34  | 1.57 | 13139.97 | 32237.16 |
| 7.0AB | 596.0J  | 0.00  | 0.00  | -11.00 | 21528.00 | 8.17  | 0.00  | 8.21 | 0.37  | 1.71 | 14018.66 | 35368.23 |
| 7.0AB | 596.0J  | 0.00  | 0.00  | -11.00 | 24814.00 | 9.10  | 0.00  | 9.15 | 0.39  | 1.83 | 15187.21 | 39697.71 |
| 7.0AB | 596.0J  | 0.00  | 0.00  | -11.00 | 24814.00 | 9.10  | 0.00  | 9.15 | 0.39  | 1.83 | 15187.21 | 39697.71 |
| 7.0AB | 596.0J  | 0.00  | 0.00  | -11.00 | 24814.00 | 9.10  | 0.00  | 9.15 | 0.39  | 1.83 | 15187.21 | 39697.71 |
| 7.40B | 1637.0J | 0.00  | 0.00  | -6.90  | 10776.00 | 5.39  | 0.00  | 5.42 | 0.61  | 1.54 | 7252.53  | 13853.32 |
| 7.40B | 1637.0J | 0.00  | 0.00  | -6.90  | 16337.00 | 6.90  | 0.00  | 6.96 | 0.75  | 1.93 | 9680.82  | 18915.46 |
| 7.40B | 1637.0J | 0.00  | 0.00  | -6.90  | 18664.00 | 7.53  | 0.00  | 7.60 | 0.77  | 2.05 | 11197.41 | 21322.01 |
| 7.40B | 1637.0J | 0.00  | 0.00  | -6.90  | 21429.00 | 8.24  | 0.00  | 8.31 | 0.78  | 2.17 | 12985.59 | 24193.41 |
| 7.40B | 1637.0J | 0.00  | 0.00  | -6.90  | 24558.00 | 9.17  | 0.00  | 9.25 | 0.75  | 2.26 | 15465.08 | 28276.01 |
| 7.40B | 1637.0J | 0.00  | 0.00  | -6.90  | 24558.00 | 9.17  | 0.00  | 9.25 | 0.75  | 2.26 | 15465.08 | 28276.01 |
| 7.40B | 1637.0J | 0.00  | 0.00  | -6.90  | 24558.00 | 9.17  | 0.00  | 9.25 | 0.75  | 2.26 | 15465.08 | 28276.01 |
| 7.0AB | 1478.0J | 0.00  | 0.00  | -8.90  | 10776.00 | 5.52  | 0.00  | 5.56 | 1.33  | 1.69 | 7829.23  | 9328.77  |
| 7.0AB | 1478.0J | 0.00  | 0.00  | -8.90  | 16337.00 | 7.07  | 0.00  | 7.12 | 1.55  | 1.86 | 10759.25 | 13107.08 |
| 7.0AB | 1478.0J | 0.00  | 0.00  | -8.90  | 18664.00 | 7.71  | 0.00  | 7.76 | 1.57  | 1.90 | 12013.27 | 14887.90 |
| 7.6AB | 1478.0J | 0.00  | 0.00  | -8.90  | 21429.00 | 8.43  | 0.00  | 8.48 | 1.59  | 1.95 | 13434.04 | 17010.20 |
| 7.6AB | 1478.0J | 0.00  | 0.00  | -8.90  | 24558.00 | 9.36  | 0.00  | 9.41 | 1.51  | 1.96 | 15330.16 | 19987.98 |
| 7.6AB | 1478.0J | 0.00  | 0.00  | -8.90  | 24558.00 | 9.36  | 0.00  | 9.41 | 1.51  | 1.96 | 15330.16 | 19987.98 |
| 7.0AB | 1478.0J | 0.00  | 0.00  | -8.90  | 10776.00 | 5.59  | 0.00  | 5.62 | 0.39  | 1.22 | 9154.50  | 17159.58 |
| 7.0AB | 1478.0J | 0.00  | 0.00  | -6.70  | 16337.00 | 7.15  | 0.00  | 7.19 | 0.48  | 1.53 | 11566.91 | 23473.04 |
| 7.0AB | 1478.0J | 0.00  | 0.00  | -6.70  | 18664.00 | 7.79  | 0.00  | 7.83 | 0.50  | 1.63 | 12604.95 | 26341.29 |
| 7.0AB | 1478.0J | 0.00  | 0.00  | -6.70  | 21429.00 | 8.51  | 0.00  | 8.55 | 0.52  | 1.74 | 13786.07 | 29702.69 |
| 7.0AB | 1478.0J | 0.00  | 0.00  | -6.70  | 24558.00 | 9.43  | 0.00  | 9.48 | 0.51  | 1.82 | 15362.37 | 34309.93 |
| 7.0AB | 1478.0J | 0.00  | 0.00  | -6.70  | 24558.00 | 9.43  | 0.00  | 9.48 | 0.51  | 1.82 | 15362.37 | 34309.93 |

|       |         |      |        |          |      |      |       |      |      |         |          |
|-------|---------|------|--------|----------|------|------|-------|------|------|---------|----------|
| 8.333 | 2534.00 | 0.00 | -11.50 | 10776.00 | 5.73 | 0.00 | 5.94  | 2.07 | 3.71 | 2906.58 | 7497.04  |
| 8.333 | 2534.00 | 0.00 | -11.50 | 16357.00 | 7.29 | 0.00 | 7.67  | 3.16 | 4.97 | 3284.41 | 9190.74  |
| 8.333 | 2534.00 | 0.00 | -11.50 | 18664.00 | 7.92 | 0.00 | 8.38  | 3.53 | 5.43 | 3439.86 | 9927.10  |
| 8.333 | 2534.00 | 0.00 | -11.50 | 21429.00 | 8.62 | 0.00 | 9.17  | 3.98 | 5.94 | 3605.70 | 10737.53 |
| 8.333 | 2534.00 | 0.00 | -11.50 | 24558.00 | 9.51 | 0.00 | 10.15 | 4.32 | 6.43 | 3819.64 | 11820.25 |
| 8.333 | 2534.00 | 0.00 | -11.50 | 24558.00 | 9.51 | 0.00 | 10.15 | 4.32 | 6.43 | 3819.64 | 11820.25 |

| SECTION | XLRN   | FLTRD | FLIC  | FLMIN  | U        | CSEL  | CRWS | EG    | 10K*S | VCH  | AREA    | *01K     |
|---------|--------|-------|-------|--------|----------|-------|------|-------|-------|------|---------|----------|
| B.334   | 2.00   | 12.10 | 17.50 | -11.50 | 10776.00 | 5.82  | 0.00 | 5.96  | 3.69  | 3.18 | 3542.69 | 5608.99  |
| B.339   | 2.00   | 12.10 | 17.50 | -11.50 | 16337.00 | 7.47  | 0.00 | 7.71  | 5.91  | 4.15 | 4100.52 | 6720.14  |
| B.339   | 2.00   | 12.10 | 17.50 | -11.50 | 18664.00 | 8.14  | 0.00 | 8.43  | 6.74  | 4.48 | 4330.88 | 7189.14  |
| B.339   | 2.00   | 12.10 | 17.50 | -11.50 | 21429.00 | 8.89  | 0.00 | 9.23  | 7.70  | 4.85 | 4589.69 | 7722.81  |
| B.339   | 2.00   | 12.10 | 17.50 | -11.50 | 24558.00 | 9.61  | 0.00 | 10.22 | 12.49 | 5.39 | 4862.26 | 6948.45  |
| B.339   | 2.00   | 12.10 | 17.50 | -11.50 | 24558.00 | 9.81  | 0.00 | 10.22 | 12.49 | 5.39 | 4862.26 | 6948.45  |
| B.340   | 12.00  | 12.10 | 17.50 | -11.50 | 16337.00 | 7.47  | 0.00 | 7.72  | 5.90  | 4.15 | 4102.35 | 6723.83  |
| B.340   | 12.00  | 12.10 | 17.50 | -11.50 | 18664.00 | 8.15  | 0.00 | 8.44  | 6.73  | 4.48 | 4332.93 | 7193.36  |
| B.340   | 12.00  | 12.10 | 17.50 | -11.50 | 21429.00 | 8.90  | 0.00 | 9.24  | 7.69  | 4.85 | 4592.00 | 7727.62  |
| B.340   | 12.00  | 12.10 | 17.50 | -11.50 | 24558.00 | 9.63  | 0.00 | 10.23 | 12.57 | 5.38 | 4863.89 | 6927.61  |
| B.340   | 12.00  | 12.10 | 17.50 | -11.50 | 24558.00 | 9.83  | 0.00 | 10.23 | 12.57 | 5.38 | 4863.89 | 6927.61  |
| B.341   | 2.00   | 0.00  | 0.00  | -11.50 | 10776.00 | 5.79  | 0.00 | 6.00  | 2.03  | 3.69 | 2923.61 | 7570.38  |
| B.341   | 2.00   | 0.00  | 0.00  | -11.50 | 16337.00 | 7.41  | 0.00 | 7.79  | 5.07  | 4.93 | 3314.36 | 9350.82  |
| B.341   | 2.00   | 0.00  | 0.00  | -11.50 | 18664.00 | 8.07  | 0.00 | 8.52  | 3.42  | 5.37 | 3473.11 | 10087.57 |
| B.341   | 2.00   | 0.00  | 0.00  | -11.50 | 21429.00 | 8.80  | 0.00 | 9.34  | 3.82  | 5.87 | 3649.89 | 10957.78 |
| B.341   | 2.00   | 0.00  | 0.00  | -11.50 | 24558.00 | 9.72  | 0.00 | 10.34 | 4.13  | 6.34 | 3871.04 | 12086.56 |
| B.341   | 2.00   | 0.00  | 0.00  | -11.50 | 24558.00 | 9.72  | 0.00 | 10.34 | 4.13  | 6.34 | 3871.04 | 12086.56 |
| B.348   | 250.00 | 0.00  | 0.00  | -12.70 | 10776.00 | 5.83  | 0.00 | 6.06  | 2.27  | 3.87 | 2784.54 | 7157.59  |
| B.348   | 250.00 | 0.00  | 0.00  | -12.70 | 16337.00 | 7.47  | 0.00 | 7.89  | 3.40  | 5.16 | 3165.27 | 8862.01  |
| B.348   | 250.00 | 0.00  | 0.00  | -12.70 | 18664.00 | 8.14  | 0.00 | 8.63  | 3.78  | 5.62 | 3319.55 | 9593.56  |
| B.348   | 250.00 | 0.00  | 0.00  | -12.70 | 21429.00 | 8.88  | 0.00 | 9.46  | 4.22  | 6.14 | 3491.30 | 10435.03 |
| B.348   | 250.00 | 0.00  | 0.00  | -12.70 | 24558.00 | 9.80  | 0.00 | 10.48 | 4.54  | 6.63 | 3705.16 | 11521.98 |
| B.348   | 250.00 | 0.00  | 0.00  | -12.70 | 24558.00 | 9.80  | 0.00 | 10.48 | 4.54  | 6.63 | 3705.16 | 11521.98 |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 10776.00 | 5.92  | 0.00 | 6.09  | 3.22  | 3.58 | 3353.07 | 6005.23  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 16337.00 | 7.67  | 0.00 | 7.93  | 4.69  | 4.26 | 4023.24 | 7545.22  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 18664.00 | 8.39  | 0.00 | 8.69  | 5.17  | 4.54 | 4309.67 | 8211.18  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 21429.00 | 9.20  | 0.00 | 9.54  | 5.68  | 4.83 | 4632.24 | 8990.59  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 24558.00 | 10.16 | 0.00 | 10.57 | 9.71  | 5.42 | 4947.90 | 7679.02  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 24558.00 | 10.16 | 0.00 | 10.57 | 9.71  | 5.42 | 4947.90 | 7679.02  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 10776.00 | 5.92  | 0.00 | 6.09  | 3.22  | 3.58 | 3354.27 | 6007.97  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 16337.00 | 7.68  | 0.00 | 7.94  | 4.69  | 4.26 | 4023.24 | 7545.22  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 18664.00 | 8.40  | 0.00 | 8.69  | 5.16  | 4.54 | 4309.67 | 8215.93  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 21429.00 | 9.21  | 0.00 | 9.55  | 5.67  | 4.83 | 4634.39 | 8995.82  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 24558.00 | 10.17 | 0.00 | 10.58 | 9.71  | 5.42 | 4947.80 | 7880.58  |
| B.349   | 5.00   | 11.90 | 17.20 | -12.70 | 24558.00 | 10.17 | 0.00 | 10.58 | 9.71  | 5.42 | 4947.80 | 7880.58  |

|       |      |      |        |          |       |      |       |      |      |         |          |
|-------|------|------|--------|----------|-------|------|-------|------|------|---------|----------|
| H-392 | 5.00 | 0.00 | -12.70 | 10776.00 | 5.90  | 0.00 | 6.12  | 2.22 | 3.80 | 2833.53 | 7231.57  |
| B-392 | 5.00 | 0.00 | -12.70 | 16337.00 | 7.62  | 0.00 | 8.00  | 3.26 | 4.98 | 3278.12 | 9048.85  |
| B-392 | 5.00 | 0.00 | -12.70 | 18664.00 | 8.32  | 0.00 | 8.77  | 3.59 | 5.38 | 3466.31 | 9844.71  |
| B-392 | 5.00 | 0.00 | -12.70 | 21429.00 | 9.12  | 0.00 | 9.64  | 3.96 | 5.82 | 3679.70 | 10774.30 |
| B-392 | 5.00 | 0.00 | -12.70 | 24558.00 | 10.07 | 0.00 | 10.68 | 4.23 | 6.23 | 3939.46 | 11944.52 |
| B-392 | 5.00 | 0.00 | -12.70 | 24558.00 | 10.07 | 0.00 | 10.68 | 4.23 | 6.23 | 3939.46 | 11944.52 |

| SERINN | YLCFH   | FLTKD | FLLC   | FLMIN    | U        | CNSLL | CRINS | EG    | 10K*S | VCH     | AREA     | * .01K   |
|--------|---------|-------|--------|----------|----------|-------|-------|-------|-------|---------|----------|----------|
| 6.390  | 30.00   | 0.00  | 0.00   | -12.70   | 10776.00 | 5.90  | 0.00  | 6.13  | 2.22  | 3.80    | 2835.58  | 7239.77  |
| 6.390  | 30.00   | 0.00  | 0.00   | -12.70   | 16337.00 | 7.63  | 0.00  | 8.01  | 3.25  | 4.98    | 3281.27  | 9062.04  |
| 6.390  | 30.00   | 0.00  | 0.00   | -12.70   | 18664.00 | 8.33  | 0.00  | 8.78  | 3.58  | 5.38    | 3469.83  | 9854.79  |
| 6.398  | 30.00   | 0.00  | 0.00   | -12.70   | 21429.00 | 9.13  | 0.00  | 9.65  | 3.94  | 5.82    | 3683.59  | 10791.54 |
| 6.398  | 30.00   | 0.00  | 0.00   | -12.70   | 24558.00 | 10.09 | 0.00  | 10.69 | 4.21  | 6.22    | 3945.14  | 11970.58 |
| 6.398  | 30.00   | 0.00  | -12.70 | 24558.00 | 10.09    | 0.00  | 10.69 | 4.21  | 6.22  | 3945.14 | 11970.58 |          |
| 6.401  | 15.00   | 10.50 | 16.10  | -13.30   | 10776.00 | 6.00  | 0.00  | 6.15  | 2.99  | 3.28    | 3479.99  | 6231.79  |
| 6.401  | 15.00   | 10.50 | 16.10  | -13.30   | 16337.00 | 7.82  | 0.00  | 8.06  | 3.94  | 4.07    | 4211.26  | 8231.30  |
| 6.401  | 15.00   | 10.50 | 16.10  | -13.30   | 18664.00 | 8.53  | 0.00  | 8.83  | 5.05  | 4.73    | 4456.60  | 8307.44  |
| 6.401  | 15.00   | 10.50 | 16.10  | -13.30   | 21429.00 | 9.34  | 0.00  | 9.71  | 5.71  | 5.17    | 4672.26  | 8967.59  |
| 6.401  | 15.00   | 10.50 | 16.10  | -13.30   | 24558.00 | 10.31 | 0.00  | 10.75 | 6.30  | 5.60    | 4933.86  | 9785.17  |
| 6.401  | 15.00   | 10.50 | 16.10  | -13.30   | 24558.00 | 10.31 | 0.00  | 10.75 | 6.30  | 5.60    | 4933.86  | 9785.17  |
| 6.403  | 12.00   | 10.50 | 16.10  | -13.30   | 10776.00 | 6.00  | 0.00  | 6.16  | 2.99  | 3.28    | 3481.20  | 6234.90  |
| 6.403  | 12.00   | 10.50 | 16.10  | -13.30   | 16337.00 | 7.83  | 0.00  | 8.07  | 3.94  | 4.07    | 4212.74  | 8235.51  |
| 6.403  | 12.00   | 10.50 | 16.10  | -13.30   | 18664.00 | 8.53  | 0.00  | 8.84  | 5.04  | 4.73    | 4459.01  | 8314.74  |
| 6.403  | 12.00   | 10.50 | 16.10  | -13.30   | 21429.00 | 9.34  | 0.00  | 9.72  | 5.70  | 5.17    | 4673.78  | 8972.28  |
| 6.403  | 12.00   | 10.50 | 16.10  | -13.30   | 24558.00 | 10.32 | 0.00  | 10.76 | 6.29  | 5.60    | 4935.55  | 9790.52  |
| 6.403  | 12.00   | 10.50 | 16.10  | -13.30   | 24558.00 | 10.32 | 0.00  | 10.76 | 6.29  | 5.60    | 4935.55  | 9790.52  |
| 6.405  | 11.00   | 0.00  | 0.00   | -13.30   | 10776.00 | 5.96  | 0.00  | 6.20  | 2.50  | 3.92    | 2746.92  | 6811.78  |
| 6.405  | 11.00   | 0.00  | 0.00   | -13.30   | 16337.00 | 7.75  | 0.00  | 8.16  | 3.54  | 5.14    | 3178.76  | 8688.56  |
| 6.405  | 11.00   | 0.00  | 0.00   | -13.30   | 18664.00 | 8.45  | 0.00  | 8.93  | 3.88  | 5.57    | 3348.74  | 9476.64  |
| 6.405  | 11.00   | 0.00  | 0.00   | -13.30   | 21429.00 | 9.25  | 0.00  | 9.82  | 4.24  | 6.05    | 3542.94  | 10410.19 |
| 6.405  | 11.00   | 0.00  | 0.00   | -13.30   | 24558.00 | 10.21 | 0.00  | 10.87 | 4.50  | 6.50    | 3775.91  | 11575.97 |
| 6.405  | 11.00   | 0.00  | 0.00   | -13.30   | 24558.00 | 10.21 | 0.00  | 10.87 | 4.50  | 6.50    | 3775.91  | 11575.97 |
| 6.406  | 15.00   | 0.00  | 0.00   | -13.30   | 10776.00 | 6.20  | 0.00  | 6.22  | 0.37  | 1.52    | 10223.00 | 17774.97 |
| 6.406  | 15.00   | 0.00  | 0.00   | -13.30   | 16337.00 | 8.17  | 0.00  | 8.20  | 0.34  | 1.62    | 14410.61 | 28119.40 |
| 6.406  | 15.00   | 0.00  | 0.00   | -13.30   | 18664.00 | 8.95  | 0.00  | 8.98  | 0.32  | 1.64    | 16234.18 | 33039.32 |
| 6.406  | 15.00   | 0.00  | 0.00   | -13.30   | 21429.00 | 9.85  | 0.00  | 9.87  | 0.29  | 1.64    | 18427.65 | 39468.89 |
| 6.406  | 15.00   | 0.00  | 0.00   | -13.30   | 24558.00 | 10.91 | 0.00  | 10.93 | 0.26  | 1.62    | 21164.48 | 47909.44 |
| 6.406  | 15.00   | 0.00  | 0.00   | -13.30   | 24558.00 | 10.91 | 0.00  | 10.93 | 0.26  | 1.62    | 21164.48 | 47909.44 |
| 6.652  | 1290.00 | 0.00  | 0.00   | -11.70   | 10776.00 | 6.23  | 0.00  | 6.31  | 1.16  | 2.71    | 7859.90  | 10021.17 |
| 6.652  | 1290.00 | 0.00  | 0.00   | -11.70   | 16337.00 | 8.20  | 0.00  | 8.28  | 1.22  | 3.08    | 11172.08 | 14780.36 |
| 6.652  | 1290.00 | 0.00  | 0.00   | -11.70   | 18664.00 | 8.97  | 0.00  | 9.06  | 1.21  | 3.17    | 12659.01 | 16975.41 |
| 6.652  | 1290.00 | 0.00  | 0.00   | -11.70   | 21429.00 | 9.87  | 0.00  | 9.96  | 1.18  | 3.26    | 14506.17 | 19718.86 |
| 6.652  | 1290.00 | 0.00  | 0.00   | -11.70   | 24558.00 | 10.92 | 0.00  | 11.01 | 1.11  | 3.30    | 16924.85 | 23334.31 |
| 6.652  | 1290.00 | 0.00  | 0.00   | -11.70   | 24558.00 | 10.92 | 0.00  | 11.01 | 1.11  | 3.30    | 16924.85 | 23334.31 |

|       |        |      |       |           |       |      |       |      |      |          |          |
|-------|--------|------|-------|-----------|-------|------|-------|------|------|----------|----------|
| 8.772 | 634.00 | 0.00 | -9.80 | 1076.00   | 6.35  | 0.00 | 6.39  | 1.14 | 1.59 | 6894.96  | 10077.58 |
| 8.772 | 634.00 | 0.00 | -9.80 | 16337.00  | 8.31  | 0.00 | 8.37  | 1.26 | 1.86 | 9075.49  | 14545.82 |
| 8.772 | 634.00 | 0.00 | -9.80 | 18664.00  | 9.09  | 0.00 | 9.15  | 1.28 | 1.98 | 10019.72 | 16526.97 |
| 8.772 | 634.00 | 0.00 | -9.80 | 217129.00 | 9.97  | 0.00 | 10.04 | 1.28 | 2.07 | 11174.96 | 18952.65 |
| 8.772 | 634.00 | 0.00 | -9.80 | 24558.00  | 11.02 | 0.00 | 11.09 | 1.24 | 2.15 | 12651.33 | 22048.40 |
| 8.772 | 634.00 | 0.00 | -9.80 | 24558.00  | 11.02 | 0.00 | 11.09 | 1.24 | 2.15 | 12651.33 | 22048.40 |

| SEQ#   | XLRH    | FLRD | FLLC | FLMIN  | Q        | CWSTL | CKWS | VCH   | AREA | .01K                    |
|--------|---------|------|------|--------|----------|-------|------|-------|------|-------------------------|
| 8.972  | 1056.00 | 0.00 | 0.00 | -11.30 | 10776.00 | 6.49  | 0.00 | 6.52  | 1.32 | 8177.73 9390.33         |
| 8.972  | 1056.00 | 0.00 | 0.00 | -11.30 | 16337.00 | 8.46  | 0.00 | 8.50  | 1.17 | 11229.02 15114.04       |
| 8.972  | 1056.00 | 0.00 | 0.00 | -11.30 | 18664.00 | 9.23  | 0.00 | 9.27  | 1.11 | 12495.42 17690.68       |
| 8.972  | 1056.00 | 0.00 | 0.00 | -11.30 | 21429.00 | 10.12 | 0.00 | 10.16 | 1.05 | 13997.80 20864.53       |
| 8.972  | 1056.00 | 0.00 | 0.00 | -11.30 | 24558.00 | 11.16 | 0.00 | 11.20 | 0.97 | 1.72 15853.00 24912.12  |
| 8.972  | 1056.00 | 0.00 | 0.00 | -11.30 | 24558.00 | 11.16 | 0.00 | 11.20 | 0.97 | 1.72 15853.00 24912.12  |
| 9.382  | 2165.00 | 0.00 | 0.00 | -10.30 | 10665.00 | 6.80  | 0.00 | 6.90  | 2.06 | 5251.88 7432.21         |
| 9.382  | 2165.00 | 0.00 | 0.00 | -10.30 | 15057.00 | 8.72  | 0.00 | 8.83  | 1.80 | 8581.87 11896.13        |
| 9.382  | 2165.00 | 0.00 | 0.00 | -10.30 | 18233.00 | 9.46  | 0.00 | 9.59  | 1.70 | 9999.74 13972.92        |
| 9.382  | 2165.00 | 0.00 | 0.00 | -10.30 | 20968.00 | 10.34 | 0.00 | 10.46 | 1.60 | 11761.50 16564.14       |
| 9.382  | 2165.00 | 0.00 | 0.00 | -10.30 | 24072.00 | 11.36 | 0.00 | 11.48 | 1.45 | 14138.31 19990.41       |
| 9.382  | 2165.00 | 0.00 | 0.00 | -10.30 | 24072.00 | 11.36 | 0.00 | 11.48 | 1.45 | 14138.31 19990.41       |
| 9.592  | 1109.00 | 0.00 | 0.00 | -10.90 | 10665.00 | 7.01  | 0.00 | 7.06  | 1.01 | 1.76 6387.64 10630.49   |
| 9.592  | 1109.00 | 0.00 | 0.00 | -10.90 | 15057.00 | 8.91  | 0.00 | 8.98  | 0.96 | 2.02 8589.08 16317.41   |
| 9.592  | 1109.00 | 0.00 | 0.00 | -10.90 | 18233.00 | 9.66  | 0.00 | 9.73  | 0.94 | 2.12 9522.47 18840.27   |
| 9.592  | 1109.00 | 0.00 | 0.00 | -10.90 | 20968.00 | 10.52 | 0.00 | 10.60 | 0.91 | 2.22 10646.63 21934.51  |
| 9.592  | 1109.00 | 0.00 | 0.00 | -10.90 | 24072.00 | 11.52 | 0.00 | 11.60 | 0.87 | 2.30 12037.63 25810.86  |
| 9.592  | 1109.00 | 0.00 | 0.00 | -10.90 | 24072.00 | 11.52 | 0.00 | 11.60 | 0.87 | 2.30 12037.63 25810.86  |
| 9.902  | 1637.00 | 0.00 | 0.00 | -12.50 | 10665.00 | 7.15  | 0.00 | 7.18  | 0.57 | 1.27 8662.18 14172.57   |
| 9.902  | 1637.00 | 0.00 | 0.00 | -12.50 | 15057.00 | 9.06  | 0.00 | 9.09  | 0.52 | 1.45 11710.75 22159.03  |
| 9.902  | 1637.00 | 0.00 | 0.00 | -12.50 | 18233.00 | 9.81  | 0.00 | 9.84  | 0.50 | 1.52 12968.05 25718.19  |
| 9.902  | 1637.00 | 0.00 | 0.00 | -12.50 | 20968.00 | 10.66 | 0.00 | 10.70 | 0.49 | 1.58 14485.88 30088.20  |
| 9.902  | 1637.00 | 0.00 | 0.00 | -12.50 | 24072.00 | 11.66 | 0.00 | 11.70 | 0.46 | 1.64 16455.07 35568.40  |
| 9.902  | 1637.00 | 0.00 | 0.00 | -12.50 | 24072.00 | 11.66 | 0.00 | 11.70 | 0.46 | 1.64 16455.07 35568.40  |
| 10.122 | 1162.00 | 0.00 | 0.00 | -17.00 | 10621.00 | 7.25  | 0.00 | 7.29  | 1.50 | 1.68 7061.46 8681.04    |
| 10.122 | 1162.00 | 0.00 | 0.00 | -17.00 | 15086.00 | 9.14  | 0.00 | 9.19  | 1.29 | 1.82 9937.78 13291.26   |
| 10.122 | 1162.00 | 0.00 | 0.00 | -17.00 | 18061.00 | 9.89  | 0.00 | 9.95  | 1.36 | 1.98 11173.43 15383.19  |
| 10.122 | 1162.00 | 0.00 | 0.00 | -17.00 | 20784.00 | 10.75 | 0.00 | 10.81 | 1.34 | 2.06 12675.17 171980.12 |
| 10.122 | 1162.00 | 0.00 | 0.00 | -17.00 | 23878.00 | 11.74 | 0.00 | 11.80 | 1.26 | 2.13 14522.88 21257.74  |
| 10.122 | 1162.00 | 0.00 | 0.00 | -17.00 | 23878.00 | 11.74 | 0.00 | 11.80 | 1.26 | 2.13 14522.88 21257.74  |
| 10.204 | 460.00  | 0.00 | 0.00 | -13.40 | 10621.00 | 7.32  | 0.00 | 7.47  | 3.98 | 3.09 3441.09 5324.87    |
| 10.204 | 460.00  | 0.00 | 0.00 | -13.40 | 15086.00 | 9.20  | 0.00 | 9.40  | 4.32 | 3.59 4201.57 7259.09    |
| 10.204 | 460.00  | 0.00 | 0.00 | -13.40 | 18061.00 | 9.94  | 0.00 | 10.19 | 4.97 | 4.00 4511.69 8101.30    |
| 10.204 | 460.00  | 0.00 | 0.00 | -13.40 | 20784.00 | 10.79 | 0.00 | 11.07 | 5.19 | 4.26 4873.20 9119.25    |
| 10.204 | 460.00  | 0.00 | 0.00 | -13.40 | 23878.00 | 11.76 | 0.00 | 12.08 | 5.31 | 4.51 5296.31 10357.36   |
| 10.204 | 460.00  | 0.00 | 0.00 | -13.40 | 23878.00 | 11.76 | 0.00 | 12.08 | 5.31 | 4.51 5296.31 10357.36   |

|        |       |       |       |        |          |       |      |       |      |      |         |          |
|--------|-------|-------|-------|--------|----------|-------|------|-------|------|------|---------|----------|
| 10.212 | 16.00 | 14.20 | 13.50 | -13.40 | 10621.00 | 7.33  | 0.00 | 7.46  | 3.97 | 3.08 | 3443.71 | 5331.17  |
| 10.212 | 16.00 | 14.20 | 13.50 | -13.40 | 15086.00 | 9.20  | 0.00 | 9.40  | 4.30 | 3.59 | 4207.86 | 7275.85  |
| 10.212 | 16.00 | 14.20 | 13.50 | -13.40 | 18061.00 | 9.95  | 0.00 | 10.20 | 4.94 | 4.00 | 4519.75 | 8123.60  |
| 10.212 | 16.00 | 14.20 | 13.50 | -13.40 | 20784.00 | 10.80 | 0.00 | 11.08 | 5.18 | 4.26 | 4878.05 | 9133.14  |
| 10.212 | 16.00 | 14.20 | 13.50 | -13.40 | 23878.00 | 11.78 | 0.00 | 12.09 | 5.30 | 4.51 | 5299.65 | 10367.31 |
| 10.212 | 16.00 | 14.20 | 13.50 | -13.40 | 23878.00 | 11.76 | 0.00 | 12.09 | 5.30 | 4.51 | 5299.65 | 10367.31 |

| STATION | XLCRH   | FLTRND | FLIC  | FLMIN  | Q        | FWSTL | CRINS | EG    | 10K*9 | VCH  | AREA     | *01K     |
|---------|---------|--------|-------|--------|----------|-------|-------|-------|-------|------|----------|----------|
| 10.221  | 47.00   | 0.00   | 0.00  | -16.40 | 10621.00 | 7.40  | 0.00  | 7.51  | 2.89  | 2.66 | 4000.12  | 6251.14  |
| 10.221  | 47.00   | 0.00   | 0.00  | -16.40 | 15086.00 | 9.29  | 0.00  | 9.44  | 3.10  | 3.10 | 4871.48  | 8562.32  |
| 10.221  | 47.00   | 0.00   | 0.00  | -16.40 | 18061.00 | 10.05 | 0.00  | 10.24 | 3.55  | 3.45 | 5228.94  | 9581.76  |
| 10.221  | 47.00   | 0.00   | 0.00  | -16.40 | 20784.00 | 10.91 | 0.00  | 11.12 | 3.78  | 3.69 | 5635.46  | 10694.95 |
| 10.221  | 47.00   | 0.00   | 0.00  | -16.40 | 23878.00 | 11.91 | 0.00  | 12.14 | 3.87  | 3.91 | 6113.79  | 12139.17 |
| 10.221  | 47.00   | 0.00   | 0.00  | -16.40 | 23878.00 | 11.90 | 0.00  | 12.14 | 3.87  | 3.91 | 6113.79  | 12139.17 |
| 10.241  | 102.00  | 14.60  | 11.60 | -16.40 | 10621.00 | 7.40  | 0.00  | 7.51  | 2.88  | 2.65 | 4002.08  | 6256.05  |
| 10.241  | 102.00  | 14.60  | 11.60 | -16.40 | 15086.00 | 9.29  | 0.00  | 9.44  | 3.10  | 3.10 | 4874.23  | 8570.00  |
| 10.241  | 102.00  | 14.60  | 11.60 | -16.40 | 18061.00 | 10.05 | 0.00  | 10.25 | 3.55  | 3.45 | 5232.48  | 9592.09  |
| 10.241  | 102.00  | 14.60  | 11.60 | -16.40 | 20784.00 | 10.92 | 0.00  | 11.13 | 3.77  | 3.69 | 5639.63  | 10707.21 |
| 10.241  | 102.00  | 14.60  | 11.60 | -16.40 | 23878.00 | 12.05 | 0.00  | 12.29 | 3.73  | 3.86 | 6188.24  | 12369.89 |
| 10.241  | 102.00  | 14.60  | 11.60 | -16.40 | 23878.00 | 12.05 | 0.00  | 12.29 | 3.73  | 3.86 | 6188.24  | 12369.89 |
| 10.246  | 59.00   | 0.00   | 0.00  | -13.40 | 10621.00 | 7.40  | 0.00  | 7.54  | 3.87  | 3.06 | 3473.00  | 5402.05  |
| 10.246  | 59.00   | 0.00   | 0.00  | -13.40 | 15086.00 | 9.28  | 0.00  | 9.48  | 4.20  | 3.56 | 4240.67  | 7363.65  |
| 10.246  | 59.00   | 0.00   | 0.00  | -13.40 | 18061.00 | 10.05 | 0.00  | 10.29 | 4.81  | 3.96 | 4559.92  | 8234.91  |
| 10.246  | 59.00   | 0.00   | 0.00  | -13.40 | 20784.00 | 10.90 | 0.00  | 11.18 | 5.04  | 4.22 | 4923.02  | 9262.45  |
| 10.246  | 59.00   | 0.00   | 0.00  | -13.40 | 23878.00 | 12.04 | 0.00  | 12.34 | 4.98  | 4.41 | 5411.46  | 10702.65 |
| 10.246  | 59.00   | 0.00   | 0.00  | -13.40 | 23878.00 | 12.04 | 0.00  | 12.34 | 4.98  | 4.41 | 5411.46  | 10702.65 |
| 10.254  | 32.00   | 14.20  | 13.50 | -13.40 | 10621.00 | 7.40  | 0.00  | 7.55  | 3.87  | 3.06 | 3472.31  | 5400.38  |
| 10.254  | 32.00   | 14.20  | 13.50 | -13.40 | 15086.00 | 9.29  | 0.00  | 9.49  | 4.19  | 3.55 | 4244.25  | 7373.24  |
| 10.254  | 32.00   | 14.20  | 13.50 | -13.40 | 18061.00 | 10.06 | 0.00  | 10.30 | 4.80  | 3.96 | 4564.54  | 8247.76  |
| 10.254  | 32.00   | 14.20  | 13.50 | -13.40 | 20784.00 | 10.92 | 0.00  | 11.19 | 5.02  | 4.22 | 4928.38  | 9277.89  |
| 10.254  | 32.00   | 14.20  | 13.50 | -13.40 | 23878.00 | 12.05 | 0.00  | 12.35 | 4.96  | 4.41 | 5417.35  | 10720.41 |
| 10.254  | 32.00   | 14.20  | 13.50 | -13.40 | 23878.00 | 12.05 | 0.00  | 12.35 | 4.96  | 4.41 | 5417.35  | 10720.41 |
| 10.257  | 14.00   | 0.00   | 0.00  | -13.40 | 10621.00 | 7.40  | 0.00  | 7.56  | 3.53  | 3.17 | 3559.97  | 5655.25  |
| 10.257  | 14.00   | 0.00   | 0.00  | -13.40 | 15086.00 | 9.29  | 0.00  | 9.50  | 3.86  | 3.73 | 4424.65  | 7681.54  |
| 10.257  | 14.00   | 0.00   | 0.00  | -13.40 | 18061.00 | 10.05 | 0.00  | 10.32 | 4.43  | 4.17 | 4792.88  | 8583.53  |
| 10.257  | 14.00   | 0.00   | 0.00  | -13.40 | 20784.00 | 10.91 | 0.00  | 11.21 | 4.64  | 4.46 | 5256.12  | 9650.53  |
| 10.257  | 14.00   | 0.00   | 0.00  | -13.40 | 23878.00 | 12.05 | 0.00  | 12.37 | 4.56  | 4.67 | 6041.96  | 11186.56 |
| 10.257  | 14.00   | 0.00   | 0.00  | -13.40 | 23878.00 | 12.05 | 0.00  | 12.37 | 4.56  | 4.67 | 6041.96  | 11186.56 |
| 10.607  | 1848.00 | 0.00   | 0.00  | -12.70 | 10621.00 | 8.07  | 0.00  | 8.20  | 3.05  | 3.56 | 7122.35  | 6079.91  |
| 10.607  | 1848.00 | 0.00   | 0.00  | -12.70 | 15086.00 | 10.04 | 0.00  | 10.19 | 3.12  | 3.93 | 9877.99  | 8546.39  |
| 10.607  | 1848.00 | 0.00   | 0.00  | -12.70 | 18061.00 | 10.92 | 0.00  | 11.09 | 3.36  | 4.24 | 11258.14 | 9846.42  |
| 10.607  | 1848.00 | 0.00   | 0.00  | -12.70 | 20784.00 | 11.83 | 0.00  | 12.00 | 3.36  | 4.39 | 12824.58 | 11338.81 |
| 10.607  | 1848.00 | 0.00   | 0.00  | -12.70 | 23878.00 | 12.97 | 0.00  | 13.13 | 3.14  | 4.42 | 15679.63 | 13483.19 |
| 10.607  | 1848.00 | 0.00   | 0.00  | -12.70 | 23878.00 | 12.97 | 0.00  | 13.13 | 3.14  | 4.42 | 15679.63 | 13483.19 |

|        |         |      |      |        |          |       |      |       |      |      |          |          |
|--------|---------|------|------|--------|----------|-------|------|-------|------|------|----------|----------|
| 10.987 | 2006.00 | 0.00 | 0.00 | -11.30 | 10621.00 | 8.57  | 0.00 | 8.62  | 1.68 | 2.02 | 8295.24  | 8188.89  |
| 10.987 | 2006.00 | 0.00 | 0.00 | -11.30 | 15086.00 | 10.54 | 0.00 | 10.60 | 1.63 | 2.17 | 11657.28 | 11807.30 |
| 10.987 | 2006.00 | 0.00 | 0.00 | -11.30 | 18061.00 | 11.46 | 0.00 | 11.51 | 1.72 | 2.31 | 13359.94 | 13769.08 |
| 10.987 | 2006.00 | 0.00 | 0.00 | -11.30 | 20784.00 | 12.36 | 0.00 | 12.42 | 1.71 | 2.38 | 15168.57 | 15905.47 |
| 10.987 | 2006.00 | 0.00 | 0.00 | -11.30 | 23878.00 | 13.46 | 0.00 | 13.52 | 1.71 | 2.41 | 17750.58 | 18833.36 |
| 10.987 | 2006.00 | 0.00 | 0.00 | -11.30 | 23878.00 | 13.46 | 0.00 | 13.52 | 1.61 | 2.41 | 17750.58 | 18833.36 |

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| SEQNO  | XLRH    | FLRD | FLLC | FLMIN  | W        | CSEL  | CJRS | 10K*3 | VCH  | ARFA     | .01K     |          |
|--------|---------|------|------|--------|----------|-------|------|-------|------|----------|----------|----------|
| 11.387 | 2112.00 | 0.00 | 0.00 | -14.40 | 10621.00 | 8.78  | 0.00 | 8.83  | 1.99 | 9028.32  | 11778.57 |          |
| 11.387 | 2112.00 | 0.00 | 0.00 | -14.40 | 15086.00 | 10.77 | 0.00 | 10.84 | 2.31 | 11882.85 | 15333.87 |          |
| 11.387 | 2112.00 | 0.00 | 0.00 | -14.40 | 18061.00 | 11.70 | 0.00 | 11.78 | 2.52 | 13458.01 | 17285.84 |          |
| 11.387 | 2112.00 | 0.00 | 0.00 | -14.40 | 20784.00 | 12.61 | 0.00 | 12.69 | 2.65 | 15149.61 | 19405.53 |          |
| 11.387 | 2112.00 | 0.00 | 0.00 | -14.40 | 23878.00 | 13.70 | 0.00 | 13.78 | 2.73 | 17342.49 | 22238.00 |          |
| 11.387 | 2112.00 | 0.00 | 0.00 | -14.40 | 23878.00 | 13.70 | 0.00 | 13.78 | 2.73 | 17342.49 | 22238.00 |          |
| 11.387 | 2112.00 | 0.00 | 0.00 | -14.40 | 23878.00 | 13.70 | 0.00 | 13.78 | 2.73 | 17342.49 | 22238.00 |          |
| 11.677 | 1531.00 | 0.00 | 0.00 | -12.00 | 10621.00 | 8.95  | 0.00 | 9.04  | 1.74 | 2.82     | 7173.70  | 8042.69  |
| 11.677 | 1531.00 | 0.00 | 0.00 | -12.00 | 15086.00 | 10.96 | 0.00 | 11.07 | 1.92 | 3.23     | 9712.40  | 10899.60 |
| 11.677 | 1531.00 | 0.00 | 0.00 | -12.00 | 18061.00 | 11.91 | 0.00 | 12.04 | 2.09 | 3.51     | 11141.83 | 12483.23 |
| 11.677 | 1531.00 | 0.00 | 0.00 | -12.00 | 20784.00 | 12.82 | 0.00 | 12.96 | 2.14 | 3.68     | 12655.67 | 14192.01 |
| 11.677 | 1531.00 | 0.00 | 0.00 | -12.00 | 23878.00 | 13.91 | 0.00 | 14.05 | 2.10 | 3.79     | 14627.17 | 16459.36 |
| 11.677 | 1531.00 | 0.00 | 0.00 | -12.00 | 23878.00 | 13.91 | 0.00 | 14.05 | 2.10 | 3.79     | 14627.17 | 16459.36 |
| 11.677 | 1531.00 | 0.00 | 0.00 | -17.60 | 10621.00 | 9.13  | 0.00 | 9.24  | 1.56 | 3.01     | 6790.29  | 8511.68  |
| 11.907 | 1214.00 | 0.00 | 0.00 | -17.60 | 15086.00 | 11.16 | 0.00 | 11.28 | 1.64 | 3.33     | 10324.66 | 11776.58 |
| 11.907 | 1214.00 | 0.00 | 0.00 | -17.60 | 18061.00 | 12.13 | 0.00 | 12.26 | 1.72 | 3.52     | 12239.92 | 13776.09 |
| 11.907 | 1214.00 | 0.00 | 0.00 | -17.60 | 20784.00 | 13.06 | 0.00 | 13.18 | 1.70 | 3.61     | 14362.18 | 15947.53 |
| 11.907 | 1214.00 | 0.00 | 0.00 | -17.60 | 23878.00 | 14.15 | 0.00 | 14.26 | 1.59 | 3.61     | 17296.49 | 18929.65 |
| 11.907 | 1214.00 | 0.00 | 0.00 | -17.60 | 23878.00 | 14.15 | 0.00 | 14.26 | 1.59 | 3.61     | 17296.49 | 18929.65 |
| 11.907 | 1214.00 | 0.00 | 0.00 | -17.60 | 23878.00 | 14.15 | 0.00 | 14.26 | 1.59 | 3.61     | 17296.49 | 18929.65 |
| 12.257 | 1848.00 | 0.00 | 0.00 | -8.90  | 10621.00 | 9.41  | 0.00 | 9.47  | 1.03 | 2.11     | 7718.71  | 10465.28 |
| 12.257 | 1848.00 | 0.00 | 0.00 | -8.90  | 15086.00 | 11.45 | 0.00 | 11.52 | 1.13 | 2.43     | 10447.98 | 14197.48 |
| 12.257 | 1848.00 | 0.00 | 0.00 | -8.90  | 18061.00 | 12.43 | 0.00 | 12.52 | 1.24 | 2.65     | 11926.31 | 16249.78 |
| 12.257 | 1848.00 | 0.00 | 0.00 | -8.90  | 20784.00 | 13.35 | 0.00 | 13.45 | 1.28 | 2.80     | 13402.75 | 18350.30 |
| 12.257 | 1848.00 | 0.00 | 0.00 | -8.90  | 23878.00 | 14.42 | 0.00 | 14.52 | 1.29 | 2.93     | 15214.43 | 20987.27 |
| 12.257 | 1848.00 | 0.00 | 0.00 | -8.90  | 23878.00 | 14.42 | 0.00 | 14.52 | 1.29 | 2.93     | 15214.43 | 20987.27 |
| 12.517 | 1373.00 | 0.00 | 0.00 | -14.70 | 10621.00 | 9.56  | 0.00 | 9.67  | 1.68 | 2.92     | 6808.58  | 8182.15  |
| 12.517 | 1373.00 | 0.00 | 0.00 | -14.70 | 15086.00 | 11.61 | 0.00 | 11.73 | 1.76 | 3.25     | 9381.26  | 11361.51 |
| 12.517 | 1373.00 | 0.00 | 0.00 | -14.70 | 18061.00 | 12.61 | 0.00 | 12.74 | 1.86 | 3.48     | 10718.97 | 13179.25 |
| 12.517 | 1373.00 | 0.00 | 0.00 | -14.70 | 20784.00 | 13.54 | 0.00 | 13.67 | 1.92 | 3.63     | 11999.86 | 15005.77 |
| 12.517 | 1373.00 | 0.00 | 0.00 | -14.70 | 23878.00 | 14.60 | 0.00 | 14.74 | 1.91 | 3.75     | 13534.33 | 17292.71 |
| 12.517 | 1373.00 | 0.00 | 0.00 | -14.70 | 23878.00 | 14.60 | 0.00 | 14.74 | 1.91 | 3.75     | 13534.33 | 17292.71 |
| 12.917 | 2112.00 | 0.00 | 0.00 | -13.40 | 10621.00 | 9.86  | 0.00 | 9.95  | 1.24 | 2.73     | 8390.89  | 9526.34  |
| 12.917 | 2112.00 | 0.00 | 0.00 | -13.40 | 15086.00 | 11.92 | 0.00 | 12.02 | 1.38 | 3.09     | 11152.18 | 12835.72 |
| 12.917 | 2112.00 | 0.00 | 0.00 | -13.40 | 18061.00 | 12.94 | 0.00 | 13.05 | 1.51 | 3.34     | 12706.53 | 14704.39 |
| 12.917 | 2112.00 | 0.00 | 0.00 | -13.40 | 20784.00 | 13.87 | 0.00 | 13.99 | 1.57 | 3.51     | 14395.99 | 16586.49 |
| 12.917 | 2112.00 | 0.00 | 0.00 | -13.40 | 23878.00 | 14.93 | 0.00 | 15.05 | 1.58 | 3.64     | 16522.25 | 18989.24 |
| 12.917 | 2112.00 | 0.00 | 0.00 | -13.40 | 23878.00 | 14.93 | 0.00 | 15.05 | 1.58 | 3.64     | 16522.25 | 18989.24 |

|        |         |      |      |        |          |       |      |       |      |      |          |          |
|--------|---------|------|------|--------|----------|-------|------|-------|------|------|----------|----------|
| 15.427 | 2693.00 | 0.00 | 0.00 | -16.90 | 10621.00 | 10.23 | 0.00 | 10.34 | 2.18 | 3.62 | 6336.16  | 7196.20  |
| 15.427 | 2693.00 | 0.00 | 0.00 | -16.90 | 15086.00 | 12.32 | 0.00 | 12.50 | 2.42 | 4.10 | 8503.42  | 9690.01  |
| 15.427 | 2693.00 | 0.00 | 0.00 | -16.90 | 18061.00 | 13.37 | 0.00 | 13.56 | 2.63 | 4.42 | 9666.62  | 11127.49 |
| 15.427 | 2693.00 | 0.00 | 0.00 | -16.90 | 20784.00 | 14.31 | 0.00 | 14.52 | 2.75 | 4.65 | 10747.42 | 12527.13 |
| 15.427 | 2693.00 | 0.00 | 0.00 | -16.90 | 23878.00 | 15.38 | 0.00 | 15.59 | 2.82 | 4.85 | 12004.36 | 14221.81 |
| 15.427 | 2693.00 | 0.00 | 0.00 | -16.90 | 25878.00 | 15.38 | 0.00 | 15.59 | 2.82 | 4.85 | 12004.36 | 14221.81 |

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| STRN   | XLFH    | FLTRD | FLLC | FLMIN  | U        | CSEL  | CRWS | E6    | 10K+S | VCH  | AHEA     | .01K     |
|--------|---------|-------|------|--------|----------|-------|------|-------|-------|------|----------|----------|
| 13.977 | 2904.00 | 0.00  | 0.00 | -13.00 | 9556.00  | 10.83 | 0.00 | 11.01 | 2.16  | 3.61 | 4640.86  | 6505.79  |
| 13.977 | 2904.00 | 0.00  | 0.00 | -13.00 | 15029.00 | 13.02 | 0.00 | 13.28 | 2.94  | 4.56 | 7010.11  | 8766.08  |
| 13.977 | 2904.00 | 0.00  | 0.00 | -13.00 | 17778.00 | 14.12 | 0.00 | 14.39 | 3.06  | 4.82 | 8408.29  | 10156.12 |
| 13.977 | 2904.00 | 0.00  | 0.00 | -13.00 | 20556.00 | 15.09 | 0.00 | 15.37 | 3.16  | 5.04 | 9746.60  | 11558.95 |
| 13.977 | 2904.00 | 0.00  | 0.00 | -13.00 | 23643.00 | 16.16 | 0.00 | 16.45 | 3.17  | 5.21 | 11309.03 | 13283.85 |
| 13.977 | 2904.00 | 0.00  | 0.00 | -13.00 | 23643.00 | 16.16 | 0.00 | 16.45 | 3.17  | 5.21 | 11309.03 | 13283.85 |
| 14.447 | 2462.00 | 0.00  | 0.00 | -13.80 | 9556.00  | 11.36 | 0.00 | 11.48 | 1.85  | 3.13 | 5110.05  | 7032.90  |
| 14.447 | 2462.00 | 0.00  | 0.00 | -13.80 | 15029.00 | 13.71 | 0.00 | 13.90 | 2.46  | 3.96 | 7273.34  | 9588.55  |
| 14.447 | 2462.00 | 0.00  | 0.00 | -13.80 | 17778.00 | 14.82 | 0.00 | 15.03 | 2.60  | 4.24 | 8531.37  | 11026.56 |
| 14.447 | 2462.00 | 0.00  | 0.00 | -13.80 | 20556.00 | 15.80 | 0.00 | 16.03 | 2.73  | 4.49 | 9831.41  | 12442.42 |
| 14.447 | 2462.00 | 0.00  | 0.00 | -13.80 | 23643.00 | 16.87 | 0.00 | 17.11 | 2.79  | 4.70 | 11409.33 | 14153.35 |
| 14.447 | 2462.00 | 0.00  | 0.00 | -13.80 | 23643.00 | 16.87 | 0.00 | 17.11 | 2.79  | 4.70 | 11409.33 | 14153.35 |
| 14.957 | 2693.00 | 0.00  | 0.00 | -16.90 | 9556.00  | 11.83 | 0.00 | 11.91 | 1.48  | 2.40 | 5486.15  | 7846.36  |
| 14.957 | 2693.00 | 0.00  | 0.00 | -16.90 | 15029.00 | 14.35 | 0.00 | 14.47 | 2.04  | 3.08 | 7740.57  | 10527.86 |
| 14.957 | 2693.00 | 0.00  | 0.00 | -16.90 | 17778.00 | 15.50 | 0.00 | 15.64 | 2.19  | 3.31 | 9100.48  | 12009.48 |
| 14.957 | 2693.00 | 0.00  | 0.00 | -16.90 | 20556.00 | 16.51 | 0.00 | 16.66 | 2.32  | 3.52 | 10485.55 | 13481.21 |
| 14.957 | 2693.00 | 0.00  | 0.00 | -16.90 | 23643.00 | 17.59 | 0.00 | 17.75 | 2.41  | 3.70 | 12097.75 | 15224.10 |
| 14.957 | 2693.00 | 0.00  | 0.00 | -16.90 | 23643.00 | 17.59 | 0.00 | 17.75 | 2.41  | 3.70 | 12097.75 | 15224.10 |
| 15.257 | 1584.00 | 0.00  | 0.00 | -10.30 | 9556.00  | 12.07 | 0.00 | 12.26 | 2.60  | 3.66 | 4174.31  | 5924.55  |
| 15.257 | 1584.00 | 0.00  | 0.00 | -10.30 | 15029.00 | 14.65 | 0.00 | 14.90 | 3.17  | 4.48 | 6580.26  | 8445.52  |
| 15.257 | 1584.00 | 0.00  | 0.00 | -10.30 | 17778.00 | 15.80 | 0.00 | 16.07 | 3.25  | 4.73 | 7983.24  | 9660.73  |
| 15.257 | 1584.00 | 0.00  | 0.00 | -10.30 | 20556.00 | 16.83 | 0.00 | 17.11 | 3.32  | 4.95 | 9397.50  | 11284.23 |
| 15.257 | 1584.00 | 0.00  | 0.00 | -10.30 | 23643.00 | 17.91 | 0.00 | 18.19 | 3.33  | 5.13 | 11053.02 | 12953.12 |
| 15.257 | 1584.00 | 0.00  | 0.00 | -10.30 | 23643.00 | 17.91 | 0.00 | 18.19 | 3.33  | 5.13 | 11053.02 | 12953.12 |
| 15.487 | 1214.00 | 0.00  | 0.00 | -9.70  | 9556.00  | 12.46 | 0.00 | 12.57 | 2.49  | 3.32 | 7406.51  | 6055.79  |
| 15.487 | 1214.00 | 0.00  | 0.00 | -9.70  | 15029.00 | 15.13 | 0.00 | 15.23 | 2.35  | 3.56 | 12123.67 | 9798.47  |
| 15.487 | 1214.00 | 0.00  | 0.00 | -9.70  | 17778.00 | 16.30 | 0.00 | 16.40 | 2.24  | 3.61 | 14513.71 | 11877.62 |
| 15.487 | 1214.00 | 0.00  | 0.00 | -9.70  | 20556.00 | 17.34 | 0.00 | 17.43 | 2.17  | 3.67 | 16730.09 | 13944.68 |
| 15.487 | 1214.00 | 0.00  | 0.00 | -9.70  | 23643.00 | 18.42 | 0.00 | 18.51 | 2.10  | 3.72 | 19125.32 | 16325.13 |
| 15.487 | 1214.00 | 0.00  | 0.00 | -9.70  | 23643.00 | 18.42 | 0.00 | 18.51 | 2.10  | 3.72 | 19125.32 | 16325.13 |
| 15.687 | 2112.00 | 0.00  | 0.00 | -10.60 | 9556.00  | 12.97 | 0.00 | 13.20 | 4.14  | 4.29 | 3985.12  | 4698.74  |
| 15.687 | 2112.00 | 0.00  | 0.00 | -10.60 | 15029.00 | 15.59 | 0.00 | 15.89 | 4.91  | 5.13 | 6464.06  | 6783.74  |
| 15.687 | 2112.00 | 0.00  | 0.00 | -10.60 | 17778.00 | 16.74 | 0.00 | 17.03 | 4.84  | 5.29 | 8299.25  | 8078.35  |
| 15.687 | 2112.00 | 0.00  | 0.00 | -10.60 | 20556.00 | 17.75 | 0.00 | 18.03 | 4.70  | 5.37 | 10337.00 | 9482.66  |
| 15.687 | 2112.00 | 0.00  | 0.00 | -10.60 | 23643.00 | 18.82 | 0.00 | 19.07 | 4.38  | 5.35 | 12916.91 | 11300.89 |
|        |         |       |      |        |          |       |      |       | 4.38  | 5.35 |          |          |

|        |        |      |      |       |          |       |      |       |      |      |          |          |
|--------|--------|------|------|-------|----------|-------|------|-------|------|------|----------|----------|
| 16.017 | 686.00 | 0.00 | 0.00 | -5.40 | 9556.00  | 13.27 | 0.00 | 13.45 | 3.24 | 3.69 | 4273.95  | 5305.15  |
| 16.017 | 686.00 | 0.00 | 0.00 | -5.40 | 15029.00 | 15.95 | 0.00 | 16.16 | 3.45 | 4.23 | 8262.21  | 8085.79  |
| 16.017 | 686.00 | 0.00 | 0.00 | -5.40 | 17778.00 | 17.10 | 0.00 | 17.26 | 3.23 | 4.26 | 11388.55 | 9888.36  |
| 16.017 | 686.00 | 0.00 | 0.00 | -5.40 | 20556.00 | 18.10 | 0.00 | 18.27 | 3.01 | 4.25 | 14347.00 | 11851.51 |
| 16.017 | 686.00 | 0.00 | 0.00 | -5.40 | 23643.00 | 19.14 | 0.00 | 19.29 | 2.76 | 4.21 | 17602.22 | 14220.17 |
| 16.017 | 686.00 | 0.00 | 0.00 | -5.40 | 23643.00 | 19.14 | 0.00 | 19.29 | 2.76 | 4.21 | 17602.22 | 14220.17 |

| SECTION | YLRH    | FLTRD | FLIC  | ELMIN  | Q        | CWSEL | CRWS | EG    | 10K*S | VCH  | AREA     | •OK      |
|---------|---------|-------|-------|--------|----------|-------|------|-------|-------|------|----------|----------|
| 16.457  | 2323.00 | 0.00  | 0.00  | -12.50 | 9556.00  | 13.88 | 0.00 | 14.04 | 2.50  | 3.71 | 5605.93  | 6045.18  |
| 16.457  | 2323.00 | 0.00  | 0.00  | -12.50 | 15029.00 | 16.59 | 0.00 | 16.77 | 2.88  | 4.31 | 9008.11  | 6852.06  |
| 16.457  | 2323.00 | 0.00  | 0.00  | -12.50 | 17778.00 | 17.68 | 0.00 | 17.87 | 2.98  | 4.51 | 10890.62 | 10306.57 |
| 16.457  | 2323.00 | 0.00  | 0.00  | -12.50 | 20556.00 | 18.64 | 0.00 | 18.83 | 3.03  | 4.66 | 12894.24 | 11814.97 |
| 16.457  | 2323.00 | 0.00  | 0.00  | -12.50 | 23643.00 | 19.63 | 0.00 | 19.81 | 3.02  | 4.78 | 15218.83 | 13595.78 |
| 16.457  | 2323.00 | 0.00  | 0.00  | -12.50 | 23643.00 | 19.63 | 0.00 | 19.81 | 3.02  | 4.78 | 15218.83 | 13595.78 |
| 16.630  | 2006.00 | 0.00  | 0.00  | -12.00 | 9556.00  | 14.48 | 0.00 | 14.86 | 5.99  | 5.21 | 2846.95  | 3903.61  |
| 16.630  | 2006.00 | 0.00  | 0.00  | -12.00 | 15029.00 | 17.22 | 0.00 | 17.73 | 7.33  | 6.33 | 4600.98  | 5549.44  |
| 16.630  | 2006.00 | 0.00  | 0.00  | -12.00 | 17778.00 | 18.32 | 0.00 | 18.85 | 7.76  | 6.73 | 5516.26  | 6382.48  |
| 16.630  | 2006.00 | 0.00  | 0.00  | -12.00 | 20556.00 | 19.27 | 0.00 | 19.84 | 8.13  | 7.08 | 6407.58  | 7210.33  |
| 16.630  | 2006.00 | 0.00  | 0.00  | -12.00 | 23643.00 | 20.23 | 0.00 | 20.83 | 8.43  | 7.41 | 7394.65  | 6142.48  |
| 16.630  | 2006.00 | 0.00  | 0.00  | -12.00 | 23643.00 | 20.23 | 0.00 | 20.83 | 8.43  | 7.41 | 7390.65  | 6142.48  |
| 16.693  | 296.00  | 0.00  | 0.00  | -11.90 | 9556.00  | 14.84 | 0.00 | 15.05 | 3.64  | 3.65 | 2621.40  | 5007.84  |
| 16.693  | 296.00  | 0.00  | 0.00  | -11.90 | 15029.00 | 17.60 | 0.00 | 17.95 | 5.08  | 4.80 | 3130.18  | 6420.93  |
| 16.693  | 296.00  | 0.00  | 0.00  | -11.90 | 17778.00 | 18.65 | 0.00 | 19.09 | 6.43  | 5.33 | 3333.86  | 7010.95  |
| 16.693  | 296.00  | 0.00  | 0.00  | -11.90 | 20556.00 | 19.55 | 0.00 | 20.08 | 7.44  | 5.85 | 3511.33  | 7335.66  |
| 16.693  | 296.00  | 0.00  | 0.00  | -11.90 | 23643.00 | 20.46 | 0.00 | 21.10 | 8.36  | 6.40 | 3695.99  | 6174.88  |
| 16.693  | 296.00  | 0.00  | 0.00  | -11.90 | 23643.00 | 20.46 | 0.00 | 21.10 | 8.36  | 6.40 | 3695.99  | 6174.88  |
| 16.900  | 42.00   | 23.60 | 21.50 | -11.90 | 9556.00  | 14.86 | 0.00 | 15.06 | 3.63  | 3.64 | 2623.98  | 5014.74  |
| 16.900  | 42.00   | 23.60 | 21.50 | -11.90 | 15029.00 | 17.62 | 0.00 | 17.98 | 5.05  | 4.79 | 3135.23  | 6435.40  |
| 16.900  | 42.00   | 23.60 | 21.50 | -11.90 | 17778.00 | 18.68 | 0.00 | 19.12 | 6.39  | 5.32 | 3340.45  | 7030.29  |
| 16.900  | 42.00   | 23.60 | 21.50 | -11.90 | 20556.00 | 19.59 | 0.00 | 20.12 | 7.39  | 5.84 | 3519.74  | 7560.79  |
| 16.900  | 42.00   | 23.60 | 21.50 | -11.90 | 23643.00 | 20.51 | 0.00 | 21.15 | 8.29  | 6.36 | 3705.57  | 8213.54  |
| 16.900  | 42.00   | 23.60 | 21.50 | -11.90 | 23643.00 | 20.51 | 0.00 | 21.15 | 8.29  | 6.36 | 3705.57  | 8213.54  |
| 16.934  | 179.00  | 0.00  | 0.00  | -11.90 | 9556.00  | 14.92 | 0.00 | 15.12 | 2.66  | 3.69 | 3639.38  | 5861.81  |
| 16.934  | 179.00  | 0.00  | 0.00  | -11.90 | 15029.00 | 17.81 | 0.00 | 18.06 | 3.14  | 4.55 | 6184.97  | 6222.70  |
| 16.934  | 179.00  | 0.00  | 0.00  | -11.90 | 17778.00 | 18.96 | 0.00 | 19.25 | 3.54  | 4.84 | 7476.11  | 9452.56  |
| 16.934  | 179.00  | 0.00  | 0.00  | -11.90 | 20556.00 | 19.96 | 0.00 | 20.27 | 3.72  | 5.11 | 8650.82  | 10658.47 |
| 16.934  | 179.00  | 0.00  | 0.00  | -11.90 | 23643.00 | 21.01 | 0.00 | 21.33 | 3.86  | 5.35 | 9940.38  | 12041.73 |
| 16.934  | 179.00  | 0.00  | 0.00  | -11.90 | 23643.00 | 21.01 | 0.00 | 21.33 | 3.86  | 5.35 | 9940.38  | 12041.73 |
| 17.554  | 2218.00 | 0.00  | 0.00  | -6.90  | 9556.00  | 15.68 | 0.00 | 15.93 | 5.31  | 4.72 | 3833.50  | 4148.83  |
| 17.554  | 2218.00 | 0.00  | 0.00  | -6.90  | 15029.00 | 18.66 | 0.00 | 18.97 | 6.03  | 5.53 | 5958.23  | 6119.65  |
| 17.554  | 2218.00 | 0.00  | 0.00  | -6.90  | 17778.00 | 19.83 | 0.00 | 20.15 | 6.28  | 5.84 | 7095.54  | 7095.23  |
| 17.554  | 2218.00 | 0.00  | 0.00  | -6.90  | 20556.00 | 20.85 | 0.00 | 21.16 | 6.50  | 6.11 | 8055.58  | 8063.90  |
| 17.554  | 2218.00 | 0.00  | 0.00  | -6.90  | 23643.00 | 21.90 | 0.00 | 22.24 | 6.63  | 6.34 | 9318.20  | 9185.56  |
| 17.554  | 2218.00 | 0.00  | 0.00  | -6.90  | 23643.00 | 21.90 | 0.00 | 22.24 | 6.63  | 6.34 | 9318.20  | 9185.56  |

|        |         |      |       |          |       |      |       |      |      |
|--------|---------|------|-------|----------|-------|------|-------|------|------|
| 17.725 | 1954.00 | 0.00 | -6.30 | 8346.00  | 16.19 | 0.00 | 16.24 | 0.92 | 2.06 |
| 17.725 | 1954.00 | 0.00 | -6.30 | 12618.00 | 19.26 | 0.00 | 19.33 | 1.12 | 2.52 |
| 17.725 | 1954.00 | 0.00 | -6.30 | 13857.00 | 20.43 | 0.00 | 20.50 | 1.07 | 2.54 |
| 17.725 | 1954.00 | 0.00 | -6.30 | 15253.00 | 21.46 | 0.00 | 21.53 | 1.06 | 2.60 |
| 17.725 | 1954.00 | 0.00 | -6.30 | 16777.00 | 22.51 | 0.00 | 22.59 | 1.05 | 2.66 |
| 17.725 | 1954.00 | 0.00 | -6.30 | 16777.00 | 22.51 | 0.00 | 22.59 | 1.05 | 2.66 |

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| STATION | YLCN   | FLTRD | ELLC  | FLMIN | L        | CHSEL | CKNS | EG    | 10KAS | VCH  | AREA     | .01K     |
|---------|--------|-------|-------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 17.820  | 533.00 | 0.00  | 0.00  | -6.30 | 8346.00  | 16.23 | 0.00 | 16.27 | 0.23  | 1.72 | 6135.07  | 17544.22 |
| 17.820  | 533.00 | 0.00  | 0.00  | -6.30 | 12618.00 | 19.32 | 0.00 | 19.36 | 0.24  | 1.96 | 8635.05  | 25630.29 |
| 17.820  | 533.00 | 0.00  | 0.00  | -6.30 | 13857.00 | 20.49 | 0.00 | 20.53 | 0.22  | 1.93 | 9764.58  | 29460.89 |
| 17.820  | 533.00 | 0.00  | 0.00  | -6.30 | 15253.00 | 21.52 | 0.00 | 21.56 | 0.21  | 1.94 | 10908.74 | 33237.63 |
| 17.820  | 533.00 | 0.00  | 0.00  | -6.30 | 16777.00 | 22.57 | 0.00 | 22.61 | 0.20  | 1.93 | 12354.28 | 37581.43 |
| 17.820  | 533.00 | 0.00  | 0.00  | -6.30 | 16777.00 | 22.57 | 0.00 | 22.61 | 0.20  | 1.93 | 12354.28 | 37581.43 |
| 17.932  | 560.00 | 0.00  | 0.00  | -1.10 | 8346.00  | 16.36 | 0.00 | 16.71 | 0.95  | 4.72 | 1769.44  | 2645.61  |
| 17.932  | 560.00 | 0.00  | 0.00  | -1.10 | 12618.00 | 19.42 | 0.00 | 19.91 | 1.42  | 5.62 | 2244.96  | 3734.59  |
| 17.932  | 560.00 | 0.00  | 0.00  | -1.10 | 13857.00 | 20.56 | 0.00 | 21.00 | 1.61  | 5.71 | 2426.98  | 4253.64  |
| 17.932  | 560.00 | 0.00  | 0.00  | -1.10 | 15253.00 | 21.57 | 0.00 | 22.09 | 1.13  | 5.82 | 3195.15  | 4791.86  |
| 17.932  | 560.00 | 0.00  | 0.00  | -1.10 | 16777.00 | 22.61 | 0.00 | 23.08 | 0.91  | 5.69 | 4893.87  | 5620.90  |
| 17.932  | 560.00 | 0.00  | 0.00  | -1.10 | 16777.00 | 22.61 | 0.00 | 23.08 | 0.91  | 5.69 | 4893.87  | 5620.90  |
| 17.938  | 52.00  | 20.70 | 16.70 | -1.10 | 8346.00  | 16.40 | 0.00 | 16.75 | 0.85  | 4.70 | 1775.79  | 2658.82  |
| 17.938  | 52.00  | 20.70 | 18.70 | -1.10 | 12618.00 | 19.43 | 0.00 | 20.29 | 0.37  | 5.46 | 2310.64  | 3918.41  |
| 17.938  | 52.00  | 20.70 | 18.70 | -1.10 | 13857.00 | 20.96 | 0.00 | 21.44 | 0.72  | 5.56 | 2567.26  | 4445.60  |
| 17.939  | 32.00  | 20.70 | 18.70 | -1.10 | 15253.00 | 21.70 | 0.00 | 22.21 | 0.76  | 5.75 | 3383.22  | 4682.74  |
| 17.939  | 32.00  | 20.70 | 18.70 | -1.10 | 16777.00 | 22.61 | 0.00 | 23.08 | 0.89  | 5.69 | 4904.69  | 5626.71  |
| 17.939  | 32.00  | 20.70 | 18.70 | -1.10 | 16777.00 | 22.61 | 0.00 | 23.08 | 0.89  | 5.69 | 4904.69  | 5626.71  |
| 17.940  | 264.00 | 0.00  | 0.00  | -5.40 | 8346.00  | 16.77 | 0.00 | 16.95 | 0.53  | 4.18 | 4056.40  | 3922.92  |
| 17.940  | 264.00 | 0.00  | 0.00  | -5.40 | 12618.00 | 20.36 | 0.00 | 20.52 | 0.82  | 4.32 | 6779.39  | 6455.99  |
| 17.940  | 264.00 | 0.00  | 0.00  | -5.40 | 13857.00 | 21.52 | 0.00 | 21.67 | 0.41  | 4.22 | 7792.23  | 7498.90  |
| 17.940  | 264.00 | 0.00  | 0.00  | -5.40 | 15253.00 | 22.29 | 0.00 | 22.44 | 0.41  | 4.31 | 8612.96  | 8260.90  |
| 17.940  | 264.00 | 0.00  | 0.00  | -5.40 | 16777.00 | 23.16 | 0.00 | 23.30 | 0.29  | 4.34 | 9831.21  | 9249.24  |
| 17.940  | 264.00 | 0.00  | 0.00  | -5.40 | 16777.00 | 23.16 | 0.00 | 23.30 | 0.29  | 4.34 | 9831.21  | 9249.24  |
| 18.054  | 350.00 | 0.00  | 0.00  | -5.40 | 8346.00  | 17.00 | 0.00 | 17.08 | 0.00  | 2.11 | 2.87     | 4958.62  |
| 18.054  | 350.00 | 0.00  | 0.00  | -5.40 | 12618.00 | 20.55 | 0.00 | 20.63 | 0.82  | 2.99 | 7843.39  | 9365.61  |
| 18.054  | 350.00 | 0.00  | 0.00  | -5.40 | 13857.00 | 21.69 | 0.00 | 21.76 | 1.65  | 2.95 | 8854.85  | 10775.74 |
| 18.054  | 350.00 | 0.00  | 0.00  | -5.40 | 15253.00 | 22.46 | 0.00 | 22.54 | 1.66  | 3.03 | 9749.55  | 11826.28 |
| 18.054  | 350.00 | 0.00  | 0.00  | -5.40 | 16777.00 | 23.31 | 0.00 | 23.39 | 1.63  | 3.07 | 10974.74 | 13137.20 |
| 18.054  | 350.00 | 0.00  | 0.00  | -5.40 | 16777.00 | 23.31 | 0.00 | 23.39 | 1.63  | 3.07 | 10974.74 | 13137.20 |
| 18.092  | 200.00 | 0.00  | 0.00  | -2.20 | 8346.00  | 17.04 | 0.00 | 17.14 | 0.07  | 3.24 | 3952.57  | 4763.58  |
| 18.092  | 200.00 | 0.00  | 0.00  | -2.20 | 12618.00 | 20.58 | 0.00 | 20.69 | 0.70  | 3.46 | 5777.23  | 7679.00  |
| 18.092  | 200.00 | 0.00  | 0.00  | -2.20 | 13857.00 | 21.71 | 0.00 | 21.81 | 0.45  | 3.42 | 6855.98  | 8857.04  |
| 18.092  | 200.00 | 0.00  | 0.00  | -2.20 | 15253.00 | 22.49 | 0.00 | 22.58 | 0.39  | 3.46 | 8114.18  | 9873.82  |
| 18.092  | 200.00 | 0.00  | 0.00  | -2.20 | 16777.00 | 23.34 | 0.00 | 23.43 | 0.43  | 2.24 | 9877.02  | 11217.68 |
|         |        |       |       |       |          |       |      |       |       | 3.43 |          |          |

|        |        |      |       |          |       |      |       |      |      |         |          |
|--------|--------|------|-------|----------|-------|------|-------|------|------|---------|----------|
| 18.120 | 150.00 | 0.00 | -2.20 | 8346.00  | 17.11 | 0.00 | 17.21 | 3.03 | 3.22 | 3971.78 | 4795.51  |
| 18.120 | 150.00 | 0.00 | -2.20 | 12618.00 | 20.64 | 0.00 | 20.75 | 2.69 | 3.46 | 5734.29 | 7700.03  |
| 18.120 | 150.00 | 0.00 | -2.20 | 13857.00 | 21.77 | 0.00 | 21.88 | 2.49 | 3.45 | 6371.48 | 8786.79  |
| 18.120 | 150.00 | 0.00 | -2.20 | 15253.00 | 22.54 | 0.00 | 22.65 | 2.51 | 3.55 | 7222.73 | 9636.11  |
| 18.120 | 150.00 | 0.00 | -2.20 | 16777.00 | 23.39 | 0.00 | 23.50 | 2.42 | 3.58 | 8733.38 | 10774.99 |
| 18.120 | 150.00 | 0.00 | -2.20 | 16777.00 | 23.34 | 0.00 | 23.50 | 2.42 | 3.58 | 8733.38 | 10774.99 |

| SEQNO  | XLCN    | FLTRD | FLLC | FLMIN | U        | CWSTL | CRMS | EG    | 10K*S | VCH  | AREA     | .01K     |
|--------|---------|-------|------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 18.423 | 1600.00 | 0.00  | 0.00 | -2.20 | 8346.00  | 17.54 | 0.00 | 17.78 | 6.15  | 4.67 | 3253.90  | 3364.86  |
| 18.423 | 1600.00 | 0.00  | 0.00 | -2.20 | 12618.00 | 21.00 | 0.00 | 21.25 | 5.82  | 5.15 | 4814.65  | 5230.60  |
| 18.423 | 1600.00 | 0.00  | 0.00 | -2.20 | 13857.00 | 22.09 | 0.00 | 22.33 | 5.30  | 5.09 | 5969.14  | 6020.74  |
| 18.423 | 1600.00 | 0.00  | 0.00 | -2.20 | 15253.00 | 22.86 | 0.00 | 23.08 | 5.08  | 5.10 | 7395.36  | 6767.74  |
| 18.423 | 1600.00 | 0.00  | 0.00 | -2.20 | 16777.00 | 23.69 | 0.00 | 23.89 | 4.66  | 5.00 | 9217.22  | 7774.01  |
| 18.423 | 1600.00 | 0.00  | 0.00 | -2.20 | 16777.00 | 23.69 | 0.00 | 23.89 | 4.66  | 5.00 | 9217.22  | 7774.01  |
| 18.643 | 2218.00 | 0.00  | 0.00 | -3.70 | 8346.00  | 17.96 | 0.00 | 17.98 | 6.52  | 1.52 | 9325.65  | 11547.03 |
| 18.643 | 2218.00 | 0.00  | 0.00 | -3.70 | 12618.00 | 21.43 | 0.00 | 21.45 | 6.52  | 1.69 | 13156.85 | 17551.67 |
| 18.643 | 2218.00 | 0.00  | 0.00 | -3.70 | 13857.00 | 22.50 | 0.00 | 22.52 | 6.49  | 1.70 | 14585.99 | 19749.34 |
| 18.643 | 2218.00 | 0.00  | 0.00 | -3.70 | 15253.00 | 23.25 | 0.00 | 23.27 | 6.51  | 1.76 | 15714.63 | 21421.16 |
| 18.643 | 2218.00 | 0.00  | 0.00 | -3.70 | 16777.00 | 24.06 | 0.00 | 24.08 | 6.52  | 1.81 | 17042.78 | 23331.00 |
| 18.643 | 2218.00 | 0.00  | 0.00 | -3.70 | 16777.00 | 24.06 | 0.00 | 24.08 | 6.52  | 1.81 | 17042.78 | 23331.00 |
| 19.193 | 1A48.00 | 0.00  | 0.00 | -2.60 | 8346.00  | 18.46 | 0.00 | 18.77 | 6.84  | 5.65 | 2951.77  | 2807.30  |
| 19.193 | 1A48.00 | 0.00  | 0.00 | -2.60 | 12618.00 | 21.83 | 0.00 | 22.09 | 7.38  | 5.81 | 6036.80  | 4645.91  |
| 19.193 | 1A48.00 | 0.00  | 0.00 | -2.60 | 13857.00 | 22.82 | 0.00 | 23.04 | 6.12  | 5.46 | 7661.64  | 5600.15  |
| 19.193 | 1A48.00 | 0.00  | 0.00 | -2.60 | 15253.00 | 23.55 | 0.00 | 23.75 | 6.66  | 5.36 | 8903.55  | 6412.01  |
| 19.193 | 1A48.00 | 0.00  | 0.00 | -2.60 | 16777.00 | 24.34 | 0.00 | 24.51 | 5.14  | 5.23 | 10507.19 | 7401.80  |
| 19.193 | 1A48.00 | 0.00  | 0.00 | -2.60 | 16777.00 | 24.34 | 0.00 | 24.51 | 5.14  | 5.23 | 10507.19 | 7401.80  |
| 19.430 | 1250.00 | 0.00  | 0.00 | -3.20 | 8346.00  | 20.13 | 0.00 | 20.27 | 3.10  | 3.68 | 4100.16  | 4740.85  |
| 19.430 | 1250.00 | 0.00  | 0.00 | -3.20 | 12618.00 | 23.46 | 0.00 | 23.57 | 2.62  | 3.76 | 7274.12  | 7792.22  |
| 19.430 | 1250.00 | 0.00  | 0.00 | -3.20 | 13857.00 | 24.32 | 0.00 | 24.42 | 2.40  | 3.69 | 8547.32  | 8936.99  |
| 19.430 | 1250.00 | 0.00  | 0.00 | -3.20 | 15253.00 | 25.01 | 0.00 | 25.11 | 2.32  | 3.70 | 9742.28  | 10007.74 |
| 19.430 | 1250.00 | 0.00  | 0.00 | -3.20 | 16777.00 | 25.74 | 0.00 | 25.83 | 2.22  | 3.68 | 11157.48 | 11269.74 |
| 19.430 | 1250.00 | 0.00  | 0.00 | -3.20 | 16777.00 | 25.74 | 0.00 | 25.83 | 2.22  | 3.68 | 11157.48 | 11269.74 |
| 19.477 | 250.00  | 0.00  | 0.00 | -3.20 | 8346.00  | 20.24 | 0.00 | 20.32 | 1.86  | 2.98 | 4467.81  | 6079.36  |
| 19.477 | 250.00  | 0.00  | 0.00 | -3.20 | 12618.00 | 23.54 | 0.00 | 23.62 | 1.84  | 3.26 | 7686.97  | 9290.67  |
| 19.477 | 250.00  | 0.00  | 0.00 | -3.20 | 13857.00 | 24.38 | 0.00 | 24.47 | 1.77  | 3.27 | 8963.69  | 10401.77 |
| 19.477 | 250.00  | 0.00  | 0.00 | -3.20 | 15253.00 | 25.08 | 0.00 | 25.16 | 1.79  | 3.34 | 10166.43 | 11415.09 |
| 19.477 | 250.00  | 0.00  | 0.00 | -3.20 | 16777.00 | 25.80 | 0.00 | 25.88 | 1.78  | 3.39 | 11587.25 | 12583.14 |
| 19.477 | 250.00  | 0.00  | 0.00 | -3.20 | 16777.00 | 25.80 | 0.00 | 25.88 | 1.78  | 3.39 | 11587.25 | 12583.14 |
| 19.500 | 150.00  | 0.00  | 0.00 | -3.20 | 8346.00  | 20.26 | 0.00 | 20.35 | 1.88  | 2.98 | 4476.56  | 6085.27  |
| 19.500 | 150.00  | 0.00  | 0.00 | -3.20 | 12618.00 | 23.55 | 0.00 | 23.64 | 1.85  | 3.26 | 7714.29  | 9288.63  |
| 19.500 | 150.00  | 0.00  | 0.00 | -3.20 | 13857.00 | 24.41 | 0.00 | 24.49 | 1.78  | 3.27 | 8994.52  | 10396.07 |
| 19.500 | 150.00  | 0.00  | 0.00 | -3.20 | 15253.00 | 25.10 | 0.00 | 25.18 | 1.79  | 3.34 | 10201.83 | 11407.04 |
| 19.500 | 150.00  | 0.00  | 0.00 | -3.20 | 16777.00 | 25.82 | 0.00 | 25.90 | 1.78  | 3.40 | 11626.76 | 12572.10 |
| 19.500 | 150.00  | 0.00  | 0.00 | -3.20 | 16777.00 | 25.82 | 0.00 | 25.90 | 1.78  | 3.40 | 11626.76 | 12572.10 |

|        |        |      |       |          |       |      |       |         |          |
|--------|--------|------|-------|----------|-------|------|-------|---------|----------|
| 14.555 | 250.00 | 0.00 | -3.20 | 8346.00  | 20.33 | 0.00 | 20.36 | 5100.51 | 7489.95  |
| 14.555 | 250.00 | 0.00 | -3.20 | 12618.00 | 23.62 | 0.00 | 23.67 | 2.57    | 11435.88 |
| 14.555 | 250.00 | 0.00 | -3.20 | 13857.00 | 24.47 | 0.00 | 24.52 | 2.58    | 9676.55  |
| 14.555 | 250.00 | 0.00 | -3.20 | 15253.00 | 25.16 | 0.00 | 25.21 | 1.16    | 12648.53 |
| 14.555 | 250.00 | 0.00 | -3.20 | 16777.00 | 25.88 | 0.00 | 25.93 | 2.62    | 10896.14 |
| 14.555 | 250.00 | 0.00 | -3.20 | 16777.00 | 25.88 | 0.00 | 25.93 | 2.66    | 14147.36 |
| 14.555 | 250.00 | 0.00 | -3.20 | 16777.00 | 25.88 | 0.00 | 25.93 | 2.66    | 12332.23 |
| 14.555 | 250.00 | 0.00 | -3.20 | 16777.00 | 25.88 | 0.00 | 25.93 | 2.66    | 15648.94 |
| 14.555 | 250.00 | 0.00 | -3.20 | 16777.00 | 25.88 | 0.00 | 25.93 | 2.66    | 12332.23 |
| 14.555 | 250.00 | 0.00 | -3.20 | 16777.00 | 25.88 | 0.00 | 25.93 | 2.66    | 15648.94 |

| SERVN  | XLRN   | FLTRD | FLIC | FLMIN | Q        | FLSEL | CRTNS | ER    | 10KTS | VCH  | AREA     | .01K     |
|--------|--------|-------|------|-------|----------|-------|-------|-------|-------|------|----------|----------|
| 19.600 | 250.00 | 0.00  | 0.00 | -3.20 | 8346.00  | 20.34 | 0.00  | 20.42 | 1.84  | 2.96 | 4525.07  | 6148.96  |
| 19.600 | 250.00 | 0.00  | 0.00 | -3.20 | 12618.00 | 23.63 | 0.00  | 23.71 | 1.81  | 3.23 | 7823.21  | 9383.77  |
| 19.600 | 250.00 | 0.00  | 0.00 | -3.20 | 13857.00 | 24.47 | 0.00  | 24.55 | 1.74  | 3.25 | 9116.23  | 10499.52 |
| 19.600 | 250.00 | 0.00  | 0.00 | -3.20 | 15253.00 | 25.17 | 0.00  | 25.24 | 1.75  | 3.32 | 10339.35 | 11520.49 |
| 19.600 | 250.00 | 0.00  | 0.00 | -3.20 | 16777.00 | 25.89 | 0.00  | 25.96 | 1.75  | 3.37 | 11778.77 | 12695.34 |
| 19.600 | 250.00 | 0.00  | 0.00 | -3.20 | 16777.00 | 25.89 | 0.00  | 25.96 | 1.75  | 3.37 | 11778.77 | 12695.34 |
| 19.616 | 90.00  | 0.00  | 0.00 | -4.80 | 8346.00  | 20.30 | 0.00  | 20.47 | 3.70  | 4.12 | 3813.46  | 4337.94  |
| 19.616 | 90.00  | 0.00  | 0.00 | -4.80 | 12618.00 | 23.59 | 0.00  | 23.76 | 3.67  | 4.50 | 7364.92  | 6588.03  |
| 19.616 | 90.00  | 0.00  | 0.00 | -4.80 | 13857.00 | 24.44 | 0.00  | 24.60 | 3.41  | 4.44 | 8865.44  | 7501.07  |
| 19.616 | 90.00  | 0.00  | 0.00 | -4.80 | 15253.00 | 25.14 | 0.00  | 25.29 | 3.32  | 4.46 | 10257.67 | 8369.96  |
| 19.616 | 90.00  | 0.00  | 0.00 | -4.80 | 16777.00 | 25.86 | 0.00  | 26.00 | 3.19  | 4.45 | 11873.63 | 9396.98  |
| 19.616 | 90.00  | 0.00  | 0.00 | -4.80 | 16777.00 | 25.86 | 0.00  | 26.00 | 3.19  | 4.45 | 11873.63 | 9396.98  |
| 19.646 | 150.00 | 0.00  | 0.00 | -4.80 | 8346.00  | 20.42 | 0.00  | 20.51 | 1.61  | 2.79 | 4340.49  | 6573.28  |
| 19.646 | 150.00 | 0.00  | 0.00 | -4.80 | 12618.00 | 23.73 | 0.00  | 23.79 | 1.54  | 2.99 | 8068.79  | 10180.13 |
| 19.646 | 150.00 | 0.00  | 0.00 | -4.80 | 13857.00 | 24.57 | 0.00  | 24.65 | 1.44  | 2.95 | 9581.80  | 11560.18 |
| 19.646 | 150.00 | 0.00  | 0.00 | -4.80 | 15253.00 | 25.26 | 0.00  | 25.31 | 1.41  | 2.97 | 10987.24 | 12856.91 |
| 19.646 | 150.00 | 0.00  | 0.00 | -4.80 | 16777.00 | 25.97 | 0.00  | 26.03 | 1.36  | 2.98 | 12609.55 | 14375.97 |
| 19.646 | 150.00 | 0.00  | 0.00 | -4.80 | 16777.00 | 25.97 | 0.00  | 26.03 | 1.36  | 2.98 | 12609.55 | 14375.97 |
| 19.665 | 100.00 | 0.00  | 0.00 | -4.80 | 8346.00  | 20.44 | 0.00  | 20.52 | 1.75  | 2.91 | 4324.54  | 6306.10  |
| 19.665 | 100.00 | 0.00  | 0.00 | -4.80 | 12618.00 | 23.74 | 0.00  | 23.81 | 1.60  | 3.05 | 8079.80  | 9963.47  |
| 19.665 | 100.00 | 0.00  | 0.00 | -4.80 | 13857.00 | 24.58 | 0.00  | 24.64 | 1.49  | 3.00 | 9604.75  | 11367.66 |
| 19.665 | 100.00 | 0.00  | 0.00 | -4.80 | 15253.00 | 25.27 | 0.00  | 25.33 | 1.45  | 3.02 | 11013.67 | 12680.78 |
| 19.665 | 100.00 | 0.00  | 0.00 | -4.80 | 16777.00 | 25.99 | 0.00  | 26.04 | 1.39  | 3.01 | 12638.84 | 14213.02 |
| 19.665 | 100.00 | 0.00  | 0.00 | -4.80 | 16777.00 | 25.99 | 0.00  | 26.04 | 1.39  | 3.01 | 12638.84 | 14213.02 |
| 19.693 | 150.00 | 0.00  | 0.00 | -4.80 | 8346.00  | 20.45 | 0.00  | 20.54 | 1.60  | 2.78 | 4353.58  | 6594.06  |
| 19.693 | 150.00 | 0.00  | 0.00 | -4.80 | 12618.00 | 23.76 | 0.00  | 23.82 | 1.53  | 2.98 | 8107.68  | 10215.01 |
| 19.693 | 150.00 | 0.00  | 0.00 | -4.80 | 13857.00 | 24.60 | 0.00  | 24.65 | 1.43  | 2.94 | 9624.20  | 11599.28 |
| 19.693 | 150.00 | 0.00  | 0.00 | -4.80 | 15253.00 | 25.28 | 0.00  | 25.34 | 1.40  | 2.96 | 11033.85 | 12902.20 |
| 19.693 | 150.00 | 0.00  | 0.00 | -4.80 | 16777.00 | 26.00 | 0.00  | 26.05 | 1.35  | 2.97 | 12659.75 | 14423.27 |
| 19.693 | 150.00 | 0.00  | 0.00 | -4.80 | 16777.00 | 26.00 | 0.00  | 26.05 | 1.35  | 2.97 | 12659.75 | 14423.27 |
| 19.731 | 200.00 | 0.00  | 0.00 | -4.80 | 8346.00  | 20.44 | 0.00  | 20.60 | 1.59  | 4.08 | 3876.54  | 4402.51  |
| 19.731 | 200.00 | 0.00  | 0.00 | -4.80 | 12618.00 | 23.72 | 0.00  | 23.89 | 1.52  | 4.43 | 7591.11  | 6723.07  |
| 19.731 | 200.00 | 0.00  | 0.00 | -4.80 | 13857.00 | 24.57 | 0.00  | 24.72 | 1.43  | 4.37 | 9103.96  | 7648.98  |
| 19.731 | 200.00 | 0.00  | 0.00 | -4.80 | 15253.00 | 25.26 | 0.00  | 25.40 | 1.39  | 4.39 | 10510.85 | 8529.50  |
| 19.731 | 200.00 | 0.00  | 0.00 | -4.80 | 16777.00 | 25.97 | 0.00  | 26.10 | 1.30  | 4.38 | 12136.06 | 9565.75  |
| 19.731 | 200.00 | 0.00  | 0.00 | -4.80 | 16777.00 | 25.97 | 0.00  | 26.10 | 1.30  | 4.38 | 12136.06 | 9565.75  |

|        |        |      |       |          |       |       |       |      |          |         |
|--------|--------|------|-------|----------|-------|-------|-------|------|----------|---------|
| 19./54 | 120.00 | 0.00 | -4.80 | 8346.00  | 20.52 | 20.69 | 3.53  | 4.05 | 3920.27  | 4443.86 |
| 19.754 | 120.00 | 0.00 | -4.80 | 12618.00 | 23.85 | 24.01 | 3.36  | 4.36 | 7821.14  | 6860.68 |
| 19./54 | 120.00 | 0.00 | -4.80 | 13857.00 | 24.70 | 24.84 | 3.15  | 4.30 | 9352.07  | 7803.23 |
| 19./54 | 120.00 | 0.00 | -4.80 | 15253.00 | 25.40 | 0.00  | 25.53 | 4.31 | 10800.65 | 8712.73 |
| 19./54 | 120.00 | 0.00 | -4.80 | 16777.00 | 26.12 | 0.00  | 26.25 | 4.29 | 12496.61 | 9801.82 |
| 19.754 | 120.00 | 0.00 | -4.80 | 16777.00 | 26.12 | 0.00  | 26.25 | 4.29 | 12496.61 | 9801.82 |

| SERIN  | XLCRH  | FLTRD | FLLC | FLWIN | W        | CSEL  | CRWS | E6    | 10KxS | VCH  | AREA     | .01K     |
|--------|--------|-------|------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 19.760 | 75.00  | 0.00  | 0.00 | -4.80 | 6803.00  | 20.61 | 0.00 | 20.72 | 2.35  | 3.32 | 3968.59  | 4487.08  |
| 19.760 | 75.00  | 0.00  | 0.00 | -4.80 | 10669.00 | 23.94 | 0.00 | 24.05 | 2.36  | 3.65 | 7901.52  | 6944.01  |
| 19.760 | 75.00  | 0.00  | 0.00 | -4.80 | 11585.00 | 24.79 | 0.00 | 24.89 | 2.14  | 3.55 | 9543.42  | 7922.48  |
| 19.760 | 75.00  | 0.00  | 0.00 | -4.80 | 12464.00 | 25.49 | 0.00 | 25.58 | 1.98  | 3.48 | 11025.57 | 8855.39  |
| 19.760 | 75.00  | 0.00  | 0.00 | -4.80 | 13498.00 | 26.21 | 0.00 | 26.29 | 1.84  | 3.41 | 12719.32 | 9948.29  |
| 19.760 | 75.00  | 0.00  | 0.00 | -4.80 | 13498.00 | 26.21 | 0.00 | 26.29 | 1.84  | 3.41 | 12719.32 | 9948.29  |
| 19.760 | 75.00  | 0.00  | 0.00 | -4.80 | 13498.00 | 26.21 | 0.00 | 26.29 | 1.84  | 3.41 | 12719.32 | 9948.29  |
| 19.782 | 75.00  | 0.00  | 0.00 | -4.80 | 6803.00  | 20.69 | 0.00 | 20.73 | 0.83  | 1.98 | 5009.09  | 7553.21  |
| 19.782 | 75.00  | 0.00  | 0.00 | -4.80 | 10669.00 | 24.04 | 0.00 | 24.07 | 0.84  | 2.18 | 9113.50  | 11672.19 |
| 19.782 | 75.00  | 0.00  | 0.00 | -4.80 | 11585.00 | 24.87 | 0.00 | 24.90 | 0.77  | 2.14 | 10697.56 | 13189.32 |
| 19.782 | 75.00  | 0.00  | 0.00 | -4.80 | 12464.00 | 25.56 | 0.00 | 25.59 | 0.73  | 2.11 | 12178.77 | 14613.51 |
| 19.782 | 75.00  | 0.00  | 0.00 | -4.80 | 13498.00 | 26.28 | 0.00 | 26.30 | 0.69  | 2.09 | 13870.90 | 16265.57 |
| 19.782 | 75.00  | 0.00  | 0.00 | -4.80 | 13498.00 | 26.28 | 0.00 | 26.30 | 0.69  | 2.09 | 13870.90 | 16265.57 |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 6803.00  | 20.71 | 0.00 | 20.74 | 0.76  | 1.90 | 5446.67  | 7874.83  |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 10669.00 | 24.05 | 0.00 | 24.07 | 0.74  | 2.05 | 9577.87  | 12362.73 |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 11585.00 | 24.88 | 0.00 | 24.91 | 0.69  | 2.02 | 11162.89 | 13967.72 |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 12464.00 | 25.57 | 0.00 | 25.60 | 0.65  | 1.99 | 12644.76 | 15465.34 |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 13498.00 | 26.29 | 0.00 | 26.31 | 0.62  | 1.98 | 14337.66 | 17194.34 |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 13498.00 | 26.29 | 0.00 | 26.31 | 0.62  | 1.98 | 14337.66 | 17194.34 |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 6803.00  | 20.73 | 0.00 | 20.75 | 0.61  | 1.57 | 7721.33  | 8806.94  |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 10669.00 | 24.06 | 0.00 | 24.08 | 0.57  | 1.68 | 11804.88 | 14114.61 |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 11585.00 | 24.89 | 0.00 | 24.91 | 0.54  | 1.67 | 13163.39 | 15808.27 |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 12464.00 | 25.58 | 0.00 | 25.60 | 0.52  | 1.67 | 14380.80 | 17325.31 |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 13498.00 | 26.30 | 0.00 | 26.31 | 0.50  | 1.67 | 15760.74 | 19034.83 |
| 19.801 | 100.00 | 0.00  | 0.00 | -4.80 | 13498.00 | 26.30 | 0.00 | 26.31 | 0.50  | 1.67 | 15760.74 | 19034.83 |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 6803.00  | 20.73 | 0.00 | 20.75 | 0.61  | 1.57 | 7721.33  | 8806.94  |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 10669.00 | 24.06 | 0.00 | 24.08 | 0.57  | 1.68 | 11804.88 | 14114.61 |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 11585.00 | 24.89 | 0.00 | 24.91 | 0.54  | 1.67 | 13163.39 | 15808.27 |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 12464.00 | 25.58 | 0.00 | 25.60 | 0.52  | 1.67 | 14380.80 | 17325.31 |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 13498.00 | 26.30 | 0.00 | 26.31 | 0.50  | 1.67 | 15760.74 | 19034.83 |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 13498.00 | 26.30 | 0.00 | 26.31 | 0.50  | 1.67 | 15760.74 | 19034.83 |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 6803.00  | 20.73 | 0.00 | 20.75 | 0.61  | 1.57 | 7721.33  | 8806.94  |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 10669.00 | 24.06 | 0.00 | 24.08 | 0.57  | 1.68 | 11804.88 | 14114.61 |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 11585.00 | 24.89 | 0.00 | 24.91 | 0.54  | 1.67 | 13163.39 | 15808.27 |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 12464.00 | 25.58 | 0.00 | 25.60 | 0.52  | 1.67 | 14380.80 | 17325.31 |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 13498.00 | 26.30 | 0.00 | 26.31 | 0.50  | 1.67 | 15760.74 | 19034.83 |
| 19.811 | 50.00  | 0.00  | 0.00 | -4.70 | 13498.00 | 26.30 | 0.00 | 26.31 | 0.50  | 1.67 | 15760.74 | 19034.83 |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 6803.00  | 20.72 | 0.00 | 20.77 | 1.72  | 2.63 | 6927.74  | 5250.83  |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 10669.00 | 24.06 | 0.00 | 24.10 | 1.52  | 2.74 | 11027.26 | 8647.66  |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 11585.00 | 24.89 | 0.00 | 24.93 | 1.41  | 2.70 | 12385.72 | 9760.25  |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 12464.00 | 25.58 | 0.00 | 25.62 | 1.34  | 2.68 | 13611.26 | 10775.92 |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 26.30 | 0.00 | 26.33 | 1.28  | 2.67 | 14992.33 | 11929.32 |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 26.30 | 0.00 | 26.33 | 1.28  | 2.67 | 14992.33 | 11929.32 |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 6803.00  | 20.72 | 0.00 | 20.77 | 1.72  | 2.63 | 6927.74  | 5250.83  |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 10669.00 | 24.06 | 0.00 | 24.10 | 1.52  | 2.74 | 11027.26 | 8647.66  |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 11585.00 | 24.89 | 0.00 | 24.93 | 1.41  | 2.70 | 12385.72 | 9760.25  |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 12464.00 | 25.58 | 0.00 | 25.62 | 1.34  | 2.68 | 13611.26 | 10775.92 |
| 19.834 | 125.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 26.30 | 0.00 | 26.33 | 1.28  | 2.67 | 14992.33 | 11929.32 |
| 19.910 | 450.00 | 0.00  | 0.00 | -4.70 | 6803.00  | 20.82 | 0.00 | 20.86 | 1.67  | 2.61 | 7006.20  | 5321.22  |
| 19.910 | 450.00 | 0.00  | 0.00 | -4.70 | 10669.00 | 24.15 | 0.00 | 24.19 | 1.49  | 2.72 | 11149.76 | 8747.65  |
| 19.910 | 450.00 | 0.00  | 0.00 | -4.70 | 11585.00 | 24.98 | 0.00 | 25.02 | 1.38  | 2.68 | 12512.90 | 9865.04  |
| 19.910 | 450.00 | 0.00  | 0.00 | -4.70 | 12464.00 | 25.67 | 0.00 | 25.70 | 1.31  | 2.66 | 13743.46 | 10886.35 |
| 19.910 | 450.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 26.38 | 0.00 | 26.41 | 1.25  | 2.65 | 15141.22 | 12049.51 |
| 19.910 | 450.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 26.38 | 0.00 | 26.41 | 1.25  | 2.65 | 15141.22 | 12049.51 |

|         |         |       |        |           |        |       |           |           |
|---------|---------|-------|--------|-----------|--------|-------|-----------|-----------|
| 19. 495 | 420. 00 | 0. 00 | -4. 70 | 6863. 00  | 20. 87 | 2. 59 | 7051. 27  | 5361. 39  |
| 19. 495 | 420. 00 | 0. 00 | -4. 70 | 10669. 00 | 24. 19 | 2. 70 | 11221. 58 | 6806. 28  |
| 19. 495 | 420. 00 | 0. 00 | -4. 70 | 11585. 00 | 25. 01 | 2. 66 | 12587. 64 | 9926. 68  |
| 19. 495 | 420. 00 | 0. 00 | -4. 70 | 12464. 00 | 25. 73 | 2. 65 | 13821. 18 | 10951. 32 |
| 19. 495 | 420. 00 | 0. 00 | -4. 70 | 13498. 00 | 26. 44 | 2. 64 | 15229. 62 | 12120. 36 |
| 19. 495 | 420. 00 | 0. 00 | -4. 70 | 13498. 00 | 26. 44 | 2. 64 | 15229. 62 | 12120. 36 |

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| STRN   | XLFH   | FLHD | FLLC | FLMIN | U        | CSEL  | CRWS | EG    | 10KSS | VCH  | AREA     | .01K     |
|--------|--------|------|------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 20.035 | 200.00 | 0.00 | 0.00 | -4.70 | 6883.00  | 20.92 | 0.00 | 20.94 | 0.81  | 1.82 | 7564.93  | 7656.23  |
| 20.035 | 200.00 | 0.00 | 0.00 | -4.70 | 10669.00 | 24.23 | 0.00 | 24.25 | 0.69  | 1.85 | 11752.68 | 12886.67 |
| 20.035 | 200.00 | 0.00 | 0.00 | -4.70 | 11585.00 | 25.06 | 0.00 | 25.07 | 0.63  | 1.82 | 13118.67 | 14552.67 |
| 20.035 | 200.00 | 0.00 | 0.00 | -4.70 | 12464.00 | 25.74 | 0.00 | 25.76 | 0.60  | 1.81 | 14352.41 | 16061.44 |
| 20.035 | 200.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.45 | 0.00 | 26.46 | 0.58  | 1.80 | 15756.72 | 17750.19 |
| 20.035 | 200.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.45 | 0.00 | 26.46 | 0.58  | 1.80 | 15756.72 | 17750.19 |
| 20.035 | 200.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.45 | 0.00 | 20.95 | 0.46  | 1.37 | 8863.83  | 10155.29 |
| 20.062 | 150.00 | 0.00 | 0.00 | -4.70 | 6883.00  | 20.94 | 0.00 | 24.26 | 0.43  | 1.46 | 13075.60 | 16295.53 |
| 20.062 | 150.00 | 0.00 | 0.00 | -4.70 | 10669.00 | 24.25 | 0.00 | 25.08 | 0.41  | 1.46 | 14442.17 | 18176.57 |
| 20.062 | 150.00 | 0.00 | 0.00 | -4.70 | 11585.00 | 25.07 | 0.00 | 25.77 | 0.39  | 1.46 | 15676.62 | 19864.90 |
| 20.062 | 150.00 | 0.00 | 0.00 | -4.70 | 12464.00 | 25.75 | 0.00 | 26.47 | 0.39  | 1.47 | 17096.77 | 21752.10 |
| 20.062 | 150.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.46 | 0.00 | 26.47 | 0.39  | 1.47 | 17096.77 | 21752.10 |
| 20.062 | 150.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.46 | 0.00 | 20.95 | 0.46  | 1.44 | 8231.87  | 9701.10  |
| 20.085 | 125.00 | 0.00 | 0.00 | -4.70 | 6883.00  | 20.94 | 0.00 | 24.27 | 0.46  | 1.55 | 12434.74 | 15394.19 |
| 20.085 | 125.00 | 0.00 | 0.00 | -4.70 | 10669.00 | 24.26 | 0.00 | 25.09 | 0.46  | 1.54 | 13801.67 | 17169.20 |
| 20.085 | 125.00 | 0.00 | 0.00 | -4.70 | 11585.00 | 25.08 | 0.00 | 25.77 | 0.44  | 1.55 | 15036.42 | 18769.24 |
| 20.085 | 125.00 | 0.00 | 0.00 | -4.70 | 12464.00 | 25.76 | 0.00 | 26.48 | 0.43  | 1.56 | 16457.59 | 20565.04 |
| 20.085 | 125.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.47 | 0.00 | 26.48 | 0.43  | 1.56 | 16457.59 | 20565.04 |
| 20.085 | 125.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.47 | 0.00 | 20.95 | 0.50  | 1.44 | 8231.87  | 9701.10  |
| 20.133 | 250.00 | 0.00 | 0.00 | -4.70 | 6883.00  | 20.94 | 0.00 | 24.27 | 0.46  | 1.55 | 12434.74 | 15394.19 |
| 20.133 | 250.00 | 0.00 | 0.00 | -4.70 | 10669.00 | 24.26 | 0.00 | 25.09 | 0.46  | 1.54 | 13801.67 | 17169.20 |
| 20.133 | 250.00 | 0.00 | 0.00 | -4.70 | 11585.00 | 25.08 | 0.00 | 25.77 | 0.44  | 1.55 | 15036.42 | 18769.24 |
| 20.133 | 250.00 | 0.00 | 0.00 | -4.70 | 12464.00 | 25.76 | 0.00 | 26.48 | 0.43  | 1.56 | 16457.59 | 20565.04 |
| 20.133 | 250.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.47 | 0.00 | 26.48 | 0.43  | 1.56 | 16457.59 | 20565.04 |
| 20.133 | 250.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.47 | 0.00 | 20.95 | 0.50  | 1.44 | 8231.87  | 9701.10  |
| 20.212 | 420.00 | 0.00 | 0.00 | -4.70 | 6883.00  | 20.94 | 0.00 | 24.29 | 1.44  | 2.68 | 11328.16 | 8893.31  |
| 20.212 | 420.00 | 0.00 | 0.00 | -4.70 | 10669.00 | 24.28 | 0.00 | 25.11 | 1.34  | 2.64 | 12704.13 | 10022.85 |
| 20.212 | 420.00 | 0.00 | 0.00 | -4.70 | 11585.00 | 25.10 | 0.00 | 25.79 | 1.27  | 2.63 | 13939.52 | 11050.40 |
| 20.212 | 420.00 | 0.00 | 0.00 | -4.70 | 12464.00 | 25.76 | 0.00 | 26.49 | 1.22  | 2.62 | 15362.36 | 12226.06 |
| 20.212 | 420.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.46 | 0.00 | 26.49 | 1.22  | 2.62 | 15362.36 | 12226.06 |
| 20.212 | 420.00 | 0.00 | 0.00 | -4.70 | 13498.00 | 26.46 | 0.00 | 20.95 | 0.50  | 1.44 | 8231.87  | 9701.10  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 6883.00  | 20.96 | 0.00 | 21.19 | 6.37  | 4.69 | 2832.50  | 2727.39  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 10669.00 | 24.28 | 0.00 | 24.48 | 5.63  | 4.97 | 5524.27  | 4497.25  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 11585.00 | 25.10 | 0.00 | 25.27 | 5.03  | 4.82 | 6605.55  | 5165.40  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 12464.00 | 25.78 | 0.00 | 25.94 | 4.61  | 4.72 | 7636.14  | 5805.46  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 13498.00 | 26.49 | 0.00 | 26.63 | 4.22  | 4.61 | 8839.66  | 6567.79  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 13498.00 | 26.49 | 0.00 | 26.63 | 4.22  | 4.61 | 8839.66  | 6567.79  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 6883.00  | 21.41 | 0.00 | 21.73 | 6.70  | 4.55 | 1513.50  | 2333.90  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 10669.00 | 24.28 | 0.00 | 25.05 | 9.60  | 5.34 | 1997.80  | 3443.05  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 11585.00 | 25.37 | 0.00 | 25.81 | 9.05  | 5.19 | 2552.88  | 3850.45  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 12464.00 | 26.01 | 0.00 | 26.44 | 8.40  | 5.36 | 3345.46  | 4299.74  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 13498.00 | 26.68 | 0.00 | 27.06 | 7.48  | 5.22 | 4450.37  | 4934.64  |
| 20.360 | 762.00 | 0.00 | 0.00 | -0.90 | 13498.00 | 26.68 | 0.00 | 27.06 | 7.48  | 5.22 | 4450.37  | 4934.64  |

|        |       |       |       |          |       |      |         |
|--------|-------|-------|-------|----------|-------|------|---------|
| 20.360 | 32.00 | 24.00 | -0.90 | 6883.00  | 21.74 | 8.67 | 4.54    |
| 20.360 | 32.00 | 24.00 | -0.90 | 10669.00 | 24.78 | 0.00 | 5.27    |
| 20.360 | 32.00 | 24.00 | -0.90 | 11585.00 | 25.40 | 0.00 | 5.46    |
| 20.360 | 32.00 | 24.00 | -0.90 | 12464.00 | 26.01 | 0.00 | 5.36    |
| 20.360 | 32.00 | 24.00 | -0.90 | 13498.00 | 26.68 | 0.00 | 5.21    |
| 20.360 | 32.00 | 24.00 | -0.90 | 13498.00 | 26.68 | 0.00 | 5.21    |
|        |       |       |       |          | 27.06 | 7.46 | 5.21    |
|        |       |       |       |          |       | 7.46 | 5.21    |
|        |       |       |       |          |       |      | 4935.72 |

| SECTION | YLRH    | FLTRD | FLLC | FLMIN | U        | CWSTL | CRWS | EG    | 10K*3 | VCH  | AREA     | .01K     |
|---------|---------|-------|------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 20.433  | 354.00  | 0.00  | 0.00 | -0.90 | 6883.00  | 21.84 | 0.00 | 22.01 | 5.00  | 4.30 | 3295.36  | 3078.32  |
| 20.433  | 354.00  | 0.00  | 0.00 | -0.90 | 10669.00 | 25.35 | 0.00 | 25.49 | 3.91  | 4.24 | 6975.49  | 5394.48  |
| 20.433  | 354.00  | 0.00  | 0.00 | -0.90 | 11585.00 | 26.02 | 0.00 | 26.14 | 3.67  | 4.24 | 8021.00  | 6046.59  |
| 20.433  | 354.00  | 0.00  | 0.00 | -0.90 | 12464.00 | 26.56 | 0.00 | 26.69 | 3.49  | 4.20 | 9008.82  | 6675.02  |
| 20.433  | 354.00  | 0.00  | 0.00 | -0.90 | 13498.00 | 27.19 | 0.00 | 27.29 | 3.30  | 4.16 | 10207.76 | 7434.28  |
| 20.433  | 354.00  | 0.00  | 0.00 | -0.90 | 13498.00 | 27.19 | 0.00 | 27.29 | 3.30  | 4.16 | 10207.76 | 7434.28  |
| 20.073  | 1267.00 | 0.00  | 0.00 | 1.60  | 6883.00  | 22.30 | 0.00 | 22.34 | 1.62  | 2.40 | 5894.64  | 5410.18  |
| 20.073  | 1267.00 | 0.00  | 0.00 | 1.60  | 10669.00 | 25.72 | 0.00 | 25.75 | 1.40  | 2.52 | 9895.43  | 9021.45  |
| 20.073  | 1267.00 | 0.00  | 0.00 | 1.60  | 11585.00 | 26.36 | 0.00 | 26.39 | 1.36  | 2.54 | 10940.68 | 9918.16  |
| 20.073  | 1267.00 | 0.00  | 0.00 | 1.60  | 12464.00 | 26.90 | 0.00 | 26.93 | 1.34  | 2.56 | 11935.62 | 10750.49 |
| 20.073  | 1267.00 | 0.00  | 0.00 | 1.60  | 13498.00 | 27.50 | 0.00 | 27.53 | 1.32  | 2.59 | 13136.13 | 11735.23 |
| 20.073  | 1267.00 | 0.00  | 0.00 | 1.60  | 13498.00 | 27.50 | 0.00 | 27.53 | 1.32  | 2.59 | 13136.13 | 11735.23 |
| 20.084  | 1109.00 | 0.00  | 0.00 | 2.00  | 6883.00  | 22.49 | 0.00 | 22.62 | 4.06  | 3.75 | 3733.10  | 3414.49  |
| 20.084  | 1109.00 | 0.00  | 0.00 | 2.00  | 10669.00 | 25.86 | 0.00 | 25.97 | 3.21  | 3.78 | 8025.54  | 5958.67  |
| 20.084  | 1109.00 | 0.00  | 0.00 | 2.00  | 11585.00 | 26.50 | 0.00 | 26.60 | 2.96  | 3.71 | 9477.94  | 6736.51  |
| 20.084  | 1109.00 | 0.00  | 0.00 | 2.00  | 12464.00 | 27.04 | 0.00 | 27.13 | 2.77  | 3.65 | 10822.03 | 7495.44  |
| 20.084  | 1109.00 | 0.00  | 0.00 | 2.00  | 13498.00 | 27.63 | 0.00 | 27.71 | 2.57  | 3.58 | 12398.07 | 8420.40  |
| 20.084  | 1109.00 | 0.00  | 0.00 | 2.00  | 13498.00 | 27.63 | 0.00 | 27.71 | 2.57  | 3.58 | 12398.07 | 8420.40  |
| 21.284  | 2112.00 | 0.00  | 0.00 | -3.70 | 6883.00  | 23.51 | 0.00 | 23.70 | 8.38  | 4.84 | 4970.69  | 2377.08  |
| 21.284  | 2112.00 | 0.00  | 0.00 | -3.70 | 10669.00 | 26.48 | 0.00 | 26.53 | 3.27  | 3.29 | 12308.64 | 5896.54  |
| 21.284  | 2112.00 | 0.00  | 0.00 | -3.70 | 11585.00 | 27.05 | 0.00 | 27.08 | 2.81  | 3.09 | 14204.30 | 6916.95  |
| 21.284  | 2112.00 | 0.00  | 0.00 | -3.70 | 12464.00 | 27.54 | 0.00 | 27.57 | 2.49  | 2.94 | 15963.85 | 7899.68  |
| 21.284  | 2112.00 | 0.00  | 0.00 | -3.70 | 13498.00 | 28.07 | 0.00 | 28.10 | 2.20  | 2.81 | 18033.64 | 9099.92  |
| 21.284  | 2112.00 | 0.00  | 0.00 | -3.70 | 13498.00 | 28.07 | 0.00 | 28.10 | 2.20  | 2.81 | 18033.64 | 9099.92  |
| 21.554  | 1426.00 | 0.00  | 0.00 | 0.90  | 6883.00  | 24.03 | 0.00 | 24.13 | 2.19  | 2.91 | 5102.41  | 4653.02  |
| 21.554  | 1426.00 | 0.00  | 0.00 | 0.90  | 10669.00 | 26.71 | 0.00 | 26.78 | 1.71  | 2.82 | 11942.52 | 8160.74  |
| 21.554  | 1426.00 | 0.00  | 0.00 | 0.90  | 11585.00 | 27.25 | 0.00 | 27.31 | 1.59  | 2.77 | 13653.32 | 9176.16  |
| 21.554  | 1426.00 | 0.00  | 0.00 | 0.90  | 12464.00 | 27.72 | 0.00 | 27.78 | 1.51  | 2.74 | 15219.07 | 10149.39 |
| 21.554  | 1426.00 | 0.00  | 0.00 | 0.90  | 13498.00 | 28.24 | 0.00 | 28.29 | 1.42  | 2.70 | 17057.84 | 11333.31 |
| 22.274  | 3802.00 | 0.00  | 0.00 | 2.70  | 6883.00  | 24.81 | 0.00 | 24.92 | 2.88  | 3.19 | 5716.35  | 4053.10  |
| 22.274  | 3802.00 | 0.00  | 0.00 | 2.70  | 10669.00 | 27.18 | 0.00 | 27.25 | 2.06  | 2.96 | 12911.08 | 7402.68  |
| 22.274  | 3802.00 | 0.00  | 0.00 | 2.70  | 11585.00 | 27.66 | 0.00 | 27.72 | 1.90  | 2.88 | 15001.16 | 8395.98  |
| 22.274  | 3802.00 | 0.00  | 0.00 | 2.70  | 12464.00 | 28.09 | 0.00 | 28.15 | 1.76  | 2.81 | 17064.27 | 9398.04  |
| 22.274  | 3802.00 | 0.00  | 0.00 | 2.70  | 13498.00 | 28.57 | 0.00 | 28.62 | 1.60  | 2.72 | 19555.56 | 10683.53 |
| 22.274  | 3802.00 | 0.00  | 0.00 | 2.70  | 13498.00 | 28.62 | 0.00 | 28.62 | 1.60  | 2.72 | 19555.56 | 10683.53 |

|        |         |      |      |          |       |      |       |      |      |
|--------|---------|------|------|----------|-------|------|-------|------|------|
| 22.964 | 5643.00 | 0.00 | 2.10 | 6863.00  | 25.95 | 0.00 | 26.10 | 5.52 | 4.46 |
| 22.964 | 5643.00 | 0.00 | 2.10 | 10609.00 | 27.98 | 0.00 | 28.16 | 5.33 | 4.70 |
| 22.964 | 5643.00 | 0.00 | 2.10 | 11585.00 | 28.36 | 0.00 | 28.54 | 5.06 | 4.64 |
| 22.964 | 5643.00 | 0.00 | 2.10 | 12464.00 | 28.74 | 0.00 | 28.89 | 4.79 | 4.57 |
| 22.964 | 5643.00 | 0.00 | 2.10 | 13498.00 | 29.14 | 0.00 | 29.27 | 4.45 | 4.46 |
| 22.964 | 5643.00 | 0.00 | 2.10 | 13498.00 | 29.14 | 0.00 | 29.27 | 4.45 | 4.46 |

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| SECNO  | XLIN    | FLTRD | FLIC  | FLMIN | G        | CSEL  | CRWS | EG    | 10KAS | VCH      | AREA     | .01K |
|--------|---------|-------|-------|-------|----------|-------|------|-------|-------|----------|----------|------|
| 23.075 | 590.00  | 0.00  | 0.00  | 2.10  | 6863.00  | 26.22 | 0.00 | 3.40  | 3.93  | 4084.64  | 3731.15  |      |
| 23.075 | 590.00  | 0.00  | 0.00  | 2.10  | 10669.00 | 28.22 | 0.00 | 3.01  | 3.96  | 6523.60  | 6151.04  |      |
| 23.075 | 590.00  | 0.00  | 0.00  | 2.10  | 11585.00 | 28.60 | 0.00 | 2.84  | 3.89  | 9860.59  | 6078.89  |      |
| 23.075 | 590.00  | 0.00  | 0.00  | 2.10  | 12464.00 | 28.94 | 0.00 | 2.66  | 3.82  | 11222.97 | 7615.60  |      |
| 23.075 | 590.00  | 0.00  | 0.00  | 2.10  | 13498.00 | 29.32 | 0.00 | 2.49  | 3.73  | 12898.45 | 8555.11  |      |
| 23.075 | 590.00  | 0.00  | 0.00  | 2.10  | 13498.00 | 29.32 | 0.00 | 2.49  | 3.73  | 12898.45 | 8555.11  |      |
| 23.075 | 590.00  | 0.00  | 0.00  | 4.90  | 6863.00  | 26.36 | 0.00 | 26.66 | 8.75  | 2578.36  | 2326.99  |      |
| 23.142 | 353.00  | 0.00  | 0.00  | 4.90  | 10669.00 | 28.34 | 0.00 | 28.59 | 7.80  | 4.82     | 6555.37  |      |
| 23.142 | 353.00  | 0.00  | 0.00  | 4.90  | 11585.00 | 28.72 | 0.00 | 28.94 | 7.24  | 4.72     | 7834.24  |      |
| 23.142 | 353.00  | 0.00  | 0.00  | 4.90  | 12464.00 | 29.05 | 0.00 | 29.25 | 6.69  | 4.60     | 9124.47  |      |
| 23.142 | 353.00  | 0.00  | 0.00  | 4.90  | 13498.00 | 29.43 | 0.00 | 29.59 | 6.13  | 4.46     | 10648.77 |      |
| 23.142 | 353.00  | 0.00  | 0.00  | 4.90  | 13498.00 | 29.43 | 0.00 | 29.59 | 6.13  | 4.46     | 10648.77 |      |
| 23.142 | 353.00  | 0.00  | 0.00  | 4.90  | 6883.00  | 26.44 | 0.00 | 26.72 | 8.51  | 4.59     | 2639.10  |      |
| 23.145 | 14.00   | 23.50 | 22.30 | 4.90  | 10669.00 | 28.41 | 0.00 | 28.64 | 7.47  | 4.73     | 6779.06  |      |
| 23.145 | 14.00   | 23.50 | 22.30 | 4.90  | 11585.00 | 28.83 | 0.00 | 29.03 | 6.73  | 4.57     | 8241.17  |      |
| 23.145 | 14.00   | 23.50 | 22.30 | 4.90  | 12464.00 | 29.20 | 0.00 | 29.37 | 6.10  | 4.42     | 9682.92  |      |
| 23.145 | 14.00   | 23.50 | 22.30 | 4.90  | 13498.00 | 29.62 | 0.00 | 29.76 | 5.42  | 4.24     | 11448.87 |      |
| 23.145 | 14.00   | 23.50 | 22.30 | 4.90  | 13498.00 | 29.62 | 0.00 | 29.76 | 5.42  | 4.24     | 11448.87 |      |
| 23.145 | 14.00   | 23.50 | 22.30 | 4.90  | 6883.00  | 26.44 | 0.00 | 26.72 | 8.51  | 4.59     | 2639.10  |      |
| 23.154 | 50.00   | 0.00  | 0.00  | 4.90  | 6863.00  | 26.49 | 0.00 | 26.77 | 8.36  | 4.56     | 2679.30  |      |
| 23.154 | 50.00   | 0.00  | 0.00  | 4.90  | 10669.00 | 28.46 | 0.00 | 28.68 | 7.30  | 4.68     | 6900.52  |      |
| 23.154 | 50.00   | 0.00  | 0.00  | 4.90  | 11585.00 | 28.87 | 0.00 | 29.06 | 6.58  | 4.53     | 8366.70  |      |
| 23.154 | 50.00   | 0.00  | 0.00  | 4.90  | 12464.00 | 29.24 | 0.00 | 29.41 | 5.97  | 4.38     | 9809.86  |      |
| 23.154 | 50.00   | 0.00  | 0.00  | 4.90  | 13498.00 | 29.65 | 0.00 | 29.79 | 5.32  | 4.21     | 11575.76 |      |
| 23.154 | 50.00   | 0.00  | 0.00  | 4.90  | 13498.00 | 29.65 | 0.00 | 29.79 | 5.32  | 4.21     | 11575.76 |      |
| 23.154 | 50.00   | 0.00  | 0.00  | 4.90  | 6883.00  | 26.49 | 0.00 | 26.77 | 8.36  | 4.56     | 2679.30  |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 8442.00  | 26.97 | 0.00 | 27.01 | 1.82  | 2.60     | 6631.20  |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 9014.00  | 29.21 | 0.00 | 28.88 | 1.56  | 2.64     | 12731.05 |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 9440.00  | 29.54 | 0.00 | 29.50 | 1.31  | 2.47     | 14347.43 |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 10011.00 | 29.91 | 0.00 | 29.93 | 1.20  | 2.38     | 15869.23 |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 10011.00 | 29.91 | 0.00 | 29.93 | 1.20  | 2.38     | 17684.42 |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 5491.00  | 26.97 | 0.00 | 27.01 | 1.82  | 2.60     | 6631.20  |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 8442.00  | 26.95 | 0.00 | 27.01 | 1.82  | 2.60     | 6631.20  |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 9014.00  | 29.21 | 0.00 | 28.88 | 1.56  | 2.64     | 12731.05 |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 9440.00  | 29.54 | 0.00 | 29.50 | 1.31  | 2.47     | 14347.43 |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 10011.00 | 29.91 | 0.00 | 29.93 | 1.20  | 2.38     | 15869.23 |      |
| 23.325 | 000.00  | 0.00  | 0.00  | 4.10  | 5491.00  | 26.97 | 0.00 | 27.01 | 1.82  | 2.60     | 6631.20  |      |
| 23.665 | 2951.00 | 0.00  | 0.00  | 4.10  | 8442.00  | 26.97 | 0.00 | 27.37 | 2.52  | 3.19     | 6553.21  |      |
| 23.665 | 2951.00 | 0.00  | 0.00  | 4.10  | 9014.00  | 29.43 | 0.00 | 29.14 | 2.12  | 3.10     | 11396.92 |      |
| 23.665 | 2951.00 | 0.00  | 0.00  | 4.10  | 9440.00  | 29.74 | 0.00 | 29.47 | 2.00  | 3.04     | 12493.81 |      |
| 23.665 | 2951.00 | 0.00  | 0.00  | 4.10  | 10011.00 | 30.09 | 0.00 | 29.77 | 1.87  | 2.96     | 13515.32 |      |
| 23.665 | 2951.00 | 0.00  | 0.00  | 4.10  | 10011.00 | 30.09 | 0.00 | 30.12 | 1.74  | 2.89     | 14750.33 |      |
| 23.665 | 2951.00 | 0.00  | 0.00  | 4.10  | 5491.00  | 26.97 | 0.00 | 27.37 | 2.52  | 3.19     | 6553.21  |      |

## EXISTING WATERSHED CONDITIONS WITH PROPOSED IMPROVEMENTS

FLFAP CREEK CHANNEL IMP  
SUMMARY PRINTOUT TABLE 150

| STATION   | XLCRft | FLFRft | ELIC | ELMIN  | Q        | CNSSEL | CRWNS | EG   | 10K*S | VCH   | AREA    | .01K     |
|-----------|--------|--------|------|--------|----------|--------|-------|------|-------|-------|---------|----------|
| 0.000     | 0.00   | 0.00   | 0.00 | -22.10 | 27299.00 | 2.00   | 0.00  | 2.22 | 1.20  | 4.35  | 8923.71 | 24884.01 |
| 10 - YEAR | 0.000  | 0.00   | 0.00 | -22.10 | 30915.00 | 2.00   | 0.00  | 2.29 | 1.54  | 4.92  | 8923.71 | 24884.01 |
| 0.000     | 0.00   | 0.00   | 0.00 | -22.10 | 35411.00 | 2.00   | 0.00  | 2.37 | 2.03  | 5.64  | 8923.71 | 24884.01 |
| 0.000     | 0.00   | 0.00   | 0.00 | -22.10 | 39871.00 | 2.00   | 0.00  | 2.47 | 2.57  | 6.35  | 8923.71 | 24884.01 |
| 0.000     | 0.00   | 0.00   | 0.00 | -22.10 | 44521.00 | 2.00   | 0.00  | 2.59 | 3.20  | 7.09  | 8923.71 | 24884.01 |
| 0.000     | 0.00   | 0.00   | 0.00 | -22.10 | 71731.00 | 2.00   | 0.00  | 3.54 | 8.31  | 11.42 | 8923.71 | 24884.01 |
| *         | 0.042  | 220.00 | 0.00 | -22.40 | 27299.00 | 2.01   | 0.00  | 2.22 | 1.31  | 3.16  | 7563.22 | 23840.22 |
| *         | 0.042  | 220.00 | 0.00 | -22.40 | 30915.00 | 2.01   | 0.00  | 2.28 | 1.66  | 3.57  | 7563.22 | 23840.22 |
| *         | 0.042  | 220.00 | 0.00 | -22.40 | 35411.00 | 2.01   | 0.00  | 2.36 | 2.21  | 4.09  | 7563.22 | 23840.22 |
| *         | 0.042  | 220.00 | 0.00 | -22.40 | 39871.00 | 2.01   | 0.00  | 2.46 | 2.80  | 4.61  | 7563.22 | 23840.22 |
| *         | 0.042  | 220.00 | 0.00 | -22.40 | 44521.00 | 2.01   | 0.00  | 2.57 | 3.49  | 5.15  | 7563.22 | 23840.22 |
| *         | 0.042  | 220.00 | 0.00 | -22.40 | 71731.00 | 2.01   | 0.00  | 3.46 | 9.05  | 8.29  | 7563.22 | 23840.22 |
| 0.043     | 220.00 | 0.00   | 0.00 | -22.40 | 27299.00 | 2.04   | 0.00  | 2.25 | 1.30  | 3.15  | 7575.90 | 23898.88 |
| 0.043     | 220.00 | 0.00   | 0.00 | -22.40 | 30915.00 | 2.05   | 0.00  | 2.31 | 1.67  | 3.57  | 7579.50 | 23915.47 |
| 0.043     | 220.00 | 0.00   | 0.00 | -22.40 | 35411.00 | 2.06   | 0.00  | 2.41 | 2.19  | 4.08  | 7584.57 | 23938.98 |
| 0.043     | 220.00 | 0.00   | 0.00 | -22.40 | 39871.00 | 2.07   | 0.00  | 2.51 | 2.77  | 4.59  | 7590.97 | 23965.41 |
| 0.043     | 220.00 | 0.00   | 0.00 | -22.40 | 44521.00 | 2.09   | 0.00  | 2.64 | 3.44  | 5.13  | 7596.97 | 23996.40 |
| 0.043     | 220.00 | 0.00   | 0.00 | -22.40 | 71731.00 | 2.24   | 0.00  | 3.64 | 8.67  | 8.18  | 7675.81 | 24362.54 |
| 0.125     | 220.00 | 0.00   | 0.00 | -22.40 | 27299.00 | 2.07   | 0.00  | 2.27 | 1.30  | 3.15  | 7590.07 | 23996.38 |
| 0.125     | 220.00 | 0.00   | 0.00 | -22.40 | 30915.00 | 2.08   | 0.00  | 2.35 | 1.66  | 3.56  | 7597.75 | 24000.00 |
| 0.125     | 220.00 | 0.00   | 0.00 | -22.40 | 35411.00 | 2.11   | 0.00  | 2.45 | 2.17  | 4.07  | 7608.72 | 24050.89 |
| 0.125     | 220.00 | 0.00   | 0.00 | -22.40 | 39871.00 | 2.13   | 0.00  | 2.57 | 2.74  | 4.58  | 7621.24 | 24108.88 |
| 0.125     | 220.00 | 0.00   | 0.00 | -22.40 | 44521.00 | 2.16   | 0.00  | 2.71 | 3.39  | 5.10  | 7635.99 | 24177.40 |
| 0.125     | 220.00 | 0.00   | 0.00 | -22.40 | 71731.00 | 2.46   | 0.00  | 3.82 | 8.32  | 8.07  | 7782.97 | 24863.13 |
| 0.167     | 220.00 | 0.00   | 0.00 | -22.40 | 27299.00 | 2.09   | 0.00  | 2.30 | 1.29  | 3.14  | 7603.59 | 24027.08 |
| 0.167     | 220.00 | 0.00   | 0.00 | -22.40 | 30915.00 | 2.12   | 0.00  | 2.38 | 1.65  | 3.55  | 7615.22 | 24080.96 |
| 0.167     | 220.00 | 0.00   | 0.00 | -22.40 | 35411.00 | 2.15   | 0.00  | 2.50 | 2.15  | 4.06  | 7631.83 | 24158.07 |
| 0.167     | 220.00 | 0.00   | 0.00 | -22.40 | 39871.00 | 2.19   | 0.00  | 2.63 | 2.70  | 4.58  | 7650.77 | 24246.08 |
| 0.167     | 220.00 | 0.00   | 0.00 | -22.40 | 44521.00 | 2.24   | 0.00  | 2.78 | 3.34  | 5.08  | 7673.23 | 24350.53 |
| 0.167     | 220.00 | 0.00   | 0.00 | -22.40 | 71731.00 | 2.67   | 0.00  | 4.00 | 8.01  | 7.97  | 7885.33 | 25344.39 |
| 0.207     | 215.00 | 0.00   | 0.00 | -21.50 | 27299.00 | 2.11   | 0.00  | 2.32 | 3.22  | 4.96  | 8457.71 | 15219.19 |

|       |        |      |      |        |          |      |      |      |       |       |         |          |
|-------|--------|------|------|--------|----------|------|------|------|-------|-------|---------|----------|
| 0.207 | 215.00 | 0.00 | 0.00 | -21.50 | 30915.00 | 2.15 | 0.00 | 2.46 | 4.10  | 5.61  | 8472.59 | 15262.17 |
| 0.207 | 215.00 | 0.00 | 0.00 | -21.50 | 35411.00 | 2.17 | 0.00 | 2.60 | 5.35  | 6.41  | 8480.38 | 15307.83 |
| 0.207 | 215.00 | 0.00 | 0.00 | -21.50 | 39871.00 | 2.22 | 0.00 | 2.76 | 6.73  | 7.20  | 8511.21 | 15373.88 |
| 0.207 | 215.00 | 0.00 | 0.00 | -21.50 | 44521.00 | 2.27 | 0.00 | 2.94 | 8.30  | 8.01  | 8538.29 | 15452.40 |
| 0.207 | 215.00 | 0.00 | 0.00 | -21.50 | 71731.00 | 2.74 | 0.00 | 4.36 | 19.75 | 12.54 | 8773.33 | 16139.63 |

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| STATION | YRTH   | FLTRD | FLLC  | FLWIN  | Q        | CSEL | CRIMS | E6   | 10K*5 | VCH   | AREA     | .01K     |
|---------|--------|-------|-------|--------|----------|------|-------|------|-------|-------|----------|----------|
| 0.255   | 250.00 | 0.00  | 0.00  | -22.30 | 27299.00 | 2.23 | 0.00  | 2.44 | 2.73  | 4.59  | 9359.10  | 16526.24 |
| 0.255   | 250.00 | 1.00  | 0.00  | -22.30 | 30915.00 | 2.30 | 0.00  | 2.50 | 3.46  | 5.17  | 9394.19  | 16625.41 |
| 0.255   | 250.00 | 1.00  | 0.00  | -22.30 | 35411.00 | 2.39 | 0.00  | 2.73 | 4.46  | 5.89  | 9444.42  | 16767.77 |
| 0.255   | 250.00 | 1.00  | 0.00  | -22.30 | 39871.00 | 2.49 | 0.00  | 2.92 | 5.55  | 6.59  | 9501.29  | 16929.43 |
| 0.255   | 250.00 | 1.00  | 0.00  | -22.30 | 44521.00 | 2.61 | 0.00  | 3.14 | 6.76  | 7.31  | 9568.33  | 17120.74 |
| 0.255   | 250.00 | 1.00  | 0.00  | -22.30 | 71731.00 | 3.61 | 0.00  | 4.85 | 14.64 | 11.09 | 10128.14 | 18746.10 |
| 0.255   | 250.00 | 0.00  | 0.00  | -23.80 | 27299.00 | 2.32 | 0.00  | 2.53 | 2.74  | 4.61  | 9151.69  | 16480.52 |
| 0.319   | 340.00 | 0.00  | 0.00  | -23.80 | 30915.00 | 2.41 | 0.00  | 2.68 | 3.46  | 5.19  | 9213.08  | 16619.35 |
| 0.319   | 340.00 | 0.00  | 0.00  | -23.80 | 35411.00 | 2.53 | 0.00  | 2.86 | 4.44  | 5.91  | 9293.63  | 16800.39 |
| 0.319   | 340.00 | 0.00  | 0.00  | -23.80 | 39871.00 | 2.67 | 0.00  | 3.11 | 5.49  | 6.59  | 9392.14  | 17020.11 |
| 0.319   | 340.00 | 0.00  | 0.00  | -23.80 | 44521.00 | 2.83 | 0.00  | 3.37 | 6.64  | 7.29  | 9509.10  | 17276.72 |
| 0.319   | 340.00 | 0.00  | 0.00  | -23.80 | 71731.00 | 4.14 | 0.00  | 5.32 | 13.55 | 10.83 | 10560.41 | 19484.16 |
| 0.319   | 340.00 | 0.00  | 0.00  | -23.80 | 23203.00 | 2.40 | 0.00  | 2.63 | 2.66  | 4.55  | 7462.88  | 14237.72 |
| 0.345   | 350.00 | 0.00  | 0.00  | -23.80 | 29537.00 | 2.49 | 0.00  | 2.86 | 4.24  | 5.76  | 7500.56  | 14346.66 |
| 0.345   | 350.00 | 0.00  | 0.00  | -23.80 | 33859.00 | 2.63 | 0.00  | 3.11 | 5.41  | 6.54  | 7570.94  | 14550.80 |
| 0.345   | 350.00 | 0.00  | 0.00  | -23.80 | 38393.00 | 2.79 | 0.00  | 3.40 | 6.75  | 7.34  | 7648.12  | 14775.63 |
| 0.345   | 350.00 | 0.00  | 0.00  | -23.80 | 42578.00 | 2.99 | 0.00  | 3.71 | 8.01  | 8.04  | 7740.44  | 15045.82 |
| 0.345   | 350.00 | 0.00  | 0.00  | -23.80 | 68568.00 | 4.50 | -4.64 | 5.93 | 15.02 | 11.57 | 10374.97 | 17691.84 |
| 0.345   | 350.00 | 0.00  | 0.00  | -23.80 | 23203.00 | 2.59 | 0.00  | 2.70 | 1.49  | 3.43  | 10984.63 | 19022.88 |
| 0.418   | 175.00 | 0.00  | 0.00  | -37.40 | 29537.00 | 2.79 | 0.00  | 2.96 | 2.31  | 4.30  | 11369.98 | 19416.15 |
| 0.418   | 175.00 | 0.00  | 0.00  | -37.40 | 33859.00 | 3.04 | 0.00  | 3.25 | 2.69  | 4.84  | 11856.69 | 19903.34 |
| 0.418   | 175.00 | 0.00  | 0.00  | -37.40 | 38393.00 | 3.31 | 0.00  | 3.57 | 3.51  | 5.38  | 12459.61 | 20482.95 |
| 0.418   | 175.00 | 0.00  | 0.00  | -37.40 | 42578.00 | 3.62 | 0.00  | 3.92 | 4.05  | 5.83  | 13186.08 | 21169.57 |
| 0.418   | 175.00 | 0.00  | 0.00  | -37.40 | 68568.00 | 5.90 | 0.00  | 6.35 | 7.53  | 7.54  | 23426.08 | 28633.94 |
| 0.418   | 175.00 | 0.00  | 0.00  | -37.40 | 23203.00 | 2.64 | 0.00  | 2.71 | 0.47  | 1.92  | 10745.28 | 33996.01 |
| 0.421   | 14.00  | 5.30  | 23.40 | -37.40 | 29537.00 | 2.87 | 0.00  | 2.98 | 0.72  | 2.41  | 11059.71 | 34734.53 |
| 0.421   | 14.00  | 5.30  | 23.40 | -37.40 | 33859.00 | 3.14 | 0.00  | 3.27 | 0.90  | 2.72  | 11425.47 | 35606.47 |
| 0.421   | 14.00  | 5.30  | 23.40 | -37.40 | 38393.00 | 3.44 | 0.00  | 3.60 | 1.10  | 3.02  | 11850.22 | 36636.39 |
| 0.421   | 14.00  | 5.30  | 23.40 | -37.40 | 42578.00 | 3.77 | 0.00  | 3.96 | 1.27  | 3.28  | 12322.85 | 37822.09 |
| 0.421   | 14.00  | 5.30  | 23.40 | -37.40 | 68568.00 | 6.15 | 0.00  | 6.41 | 2.02  | 4.42  | 17781.98 | 46239.54 |
| 0.421   | 14.00  | 5.30  | 23.40 | -37.40 | 23203.00 | 2.64 | 0.00  | 2.71 | 0.47  | 1.92  | 10748.90 | 34004.46 |
| 0.426   | 29.00  | 5.30  | 23.40 | -37.40 | 29537.00 | 2.87 | 0.00  | 2.98 | 0.72  | 2.41  | 11065.50 | 34748.22 |
| 0.426   | 29.00  | 5.30  | 23.40 | -37.40 | 33859.00 | 3.14 | 0.00  | 3.28 | 0.90  | 2.71  | 11432.83 | 35624.14 |
| 0.426   | 29.00  | 5.30  | 23.40 | -37.40 | 38393.00 | 3.44 | 0.00  | 3.61 | 1.10  | 3.02  | 11859.30 | 36658.73 |
| 0.426   | 29.00  | 5.30  | 23.40 | -37.40 | 42578.00 | 3.77 | 0.00  | 3.96 | 1.27  | 3.28  | 12333.27 | 37848.73 |
| 0.426   | 29.00  | 5.30  | 23.40 | -37.40 | 68568.00 | 6.16 | 0.00  | 6.42 | 2.01  | 4.41  | 17842.46 | 48308.33 |

|       |      |      |      |        |          |      |      |      |      |      |          |          |
|-------|------|------|------|--------|----------|------|------|------|------|------|----------|----------|
| 0.427 | 1.00 | 0.00 | 0.00 | -37.40 | 23203.00 | 2.64 | 0.00 | 2.72 | 0.94 | 2.75 | 10949.92 | 23441.63 |
| 0.427 | 1.00 | 0.00 | 0.00 | -37.40 | 29537.00 | 2.87 | 0.00 | 2.99 | 1.45 | 3.45 | 11352.54 | 24532.21 |
| 0.427 | 1.00 | 0.00 | 0.00 | -37.40 | 33859.00 | 3.13 | 0.00 | 3.28 | 1.80 | 3.89 | 11851.63 | 25233.44 |
| 0.427 | 1.00 | 0.00 | 0.00 | -37.40 | 36393.00 | 3.43 | 0.00 | 3.61 | 2.17 | 4.33 | 12470.88 | 26071.15 |
| 0.427 | 1.00 | 0.00 | 0.00 | -37.40 | 42578.00 | 3.76 | 0.00 | 3.97 | 2.48 | 4.70 | 13198.56 | 27033.82 |
| 0.427 | 1.00 | 0.00 | 0.00 | -37.40 | 68568.00 | 6.14 | 0.00 | 6.44 | 3.57 | 6.22 | 21634.44 | 36287.86 |

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| STERNO | XLC,I  | ELTRD     | ELLC      | ELMIN  | G        | CSEL | CRIVS | EG   | 10K*S | VCH  | AREA     | .01K     |
|--------|--------|-----------|-----------|--------|----------|------|-------|------|-------|------|----------|----------|
| 0.446  | 101.00 | 0.00      | 0.00      | -24.00 | 23203.00 | 2.65 | 0.00  | 2.74 | 1.26  | 3.16 | 15647.72 | 20635.70 |
| 0.446  | 101.00 | 0.00      | 0.00      | -24.00 | 29537.00 | 2.69 | 0.00  | 3.02 | 1.49  | 3.90 | 16588.31 | 21475.13 |
| 0.446  | 101.00 | 0.00      | 0.00      | -24.00 | 33859.00 | 3.16 | 0.00  | 3.31 | 2.27  | 4.30 | 17708.94 | 22478.44 |
| 0.446  | 101.00 | 0.00      | 0.00      | -24.00 | 38393.00 | 3.47 | 0.00  | 3.65 | 2.60  | 4.66 | 19133.77 | 23793.96 |
| 0.446  | 101.00 | 0.00      | 0.00      | -24.00 | 42578.00 | 3.83 | 0.00  | 4.01 | 2.83  | 4.90 | 20757.57 | 25324.60 |
| 0.446  | 101.00 | 0.00      | 0.00      | -24.00 | 68568.00 | 6.34 | 0.00  | 6.52 | 3.01  | 5.42 | 34130.53 | 39550.76 |
| 0.479  | 174.00 | 0.00      | 0.00      | -24.00 | 23203.00 | 2.62 | 0.00  | 2.81 | 1.26  | 3.70 | 12148.56 | 20676.35 |
| 0.479  | 174.00 | 0.00      | 0.00      | -24.00 | 29537.00 | 2.84 | 0.00  | 3.12 | 1.89  | 4.58 | 12978.07 | 21466.02 |
| 0.479  | 174.00 | 0.00      | 0.00      | -24.00 | 33859.00 | 3.11 | 0.00  | 3.44 | 2.28  | 5.07 | 13998.74 | 22432.27 |
| 0.479  | 174.00 | 0.00      | 0.00      | -24.00 | 38393.00 | 3.41 | 0.00  | 3.60 | 2.64  | 5.51 | 15248.38 | 23644.72 |
| 0.479  | 174.00 | 0.00      | 0.00      | -24.00 | 42578.00 | 3.75 | 0.00  | 4.16 | 2.87  | 5.83 | 16739.14 | 25116.09 |
| 0.479  | 174.00 | 0.00      | 0.00      | -24.00 | 68568.00 | 6.26 | 0.00  | 6.69 | 3.09  | 6.57 | 29330.83 | 38989.11 |
| 0.482  | 16.00  | 100000.00 | 100000.00 | -24.00 | 22881.00 | 2.65 | 0.00  | 2.73 | 1.23  | 3.12 | 15662.18 | 20648.62 |
| 0.482  | 16.00  | 100000.00 | 100000.00 | -24.00 | 29146.00 | 2.87 | 0.00  | 3.00 | 1.85  | 3.85 | 16553.06 | 21443.68 |
| 0.482  | 16.00  | 100000.00 | 100000.00 | -24.00 | 33859.00 | 3.15 | 0.00  | 3.30 | 2.21  | 4.25 | 17688.01 | 22459.48 |
| 0.482  | 16.00  | 100000.00 | 100000.00 | -24.00 | 37892.00 | 3.45 | 0.00  | 3.62 | 2.56  | 4.61 | 19021.28 | 23689.20 |
| 0.482  | 16.00  | 100000.00 | 100000.00 | -24.00 | 42033.00 | 3.80 | 0.00  | 3.99 | 2.78  | 4.86 | 20653.92 | 25225.48 |
| 0.482  | 16.00  | 100000.00 | 100000.00 | -24.00 | 67813.00 | 6.31 | 0.00  | 6.49 | 2.97  | 5.39 | 33962.16 | 39358.74 |
| 0.499  | 90.00  | 0.00      | 0.00      | -22.00 | 22732.00 | 2.68 | 0.00  | 2.76 | 1.16  | 3.04 | 17378.54 | 21064.99 |
| 0.499  | 90.00  | 0.00      | 0.00      | -22.00 | 28962.00 | 2.92 | 0.00  | 3.04 | 1.74  | 3.74 | 18379.19 | 21954.05 |
| 0.499  | 90.00  | 0.00      | 0.00      | -22.00 | 33207.00 | 3.20 | 0.00  | 3.34 | 2.08  | 4.12 | 19585.91 | 23037.71 |
| 0.499  | 90.00  | 0.00      | 0.00      | -22.00 | 37655.00 | 3.52 | 0.00  | 3.67 | 2.38  | 4.46 | 21040.18 | 24391.50 |
| 0.499  | 90.00  | 0.00      | 0.00      | -22.00 | 41777.00 | 3.86 | 0.00  | 4.04 | 2.58  | 4.69 | 22725.56 | 25998.49 |
| 0.499  | 90.00  | 0.00      | 0.00      | -22.00 | 67458.00 | 6.38 | 0.00  | 6.55 | 2.83  | 5.27 | 35718.75 | 40066.61 |
| 0.660  | A51.00 | 0.00      | 0.00      | -20.60 | 21945.00 | 2.77 | 0.00  | 2.85 | 0.99  | 2.82 | 11424.05 | 22016.92 |
| 0.660  | A50.00 | 0.00      | 0.00      | -20.60 | 28061.00 | 3.06 | 0.00  | 3.18 | 1.53  | 3.53 | 11632.30 | 22613.43 |
| 0.660  | A50.00 | 0.00      | 0.00      | -20.60 | 32121.00 | 3.37 | 0.00  | 3.52 | 1.91  | 3.98 | 11848.19 | 23237.54 |
| 0.660  | A50.00 | 0.00      | 0.00      | -20.60 | 36422.00 | 3.70 | 0.00  | 3.89 | 2.31  | 4.42 | 12092.46 | 23951.22 |
| 0.660  | A50.00 | 0.00      | 0.00      | -20.60 | 40441.00 | 4.07 | 0.00  | 4.29 | 2.67  | 4.80 | 12364.59 | 24755.49 |
| 0.660  | A50.00 | 0.00      | 0.00      | -20.60 | 65609.00 | 6.56 | 0.00  | 6.99 | 4.55  | 6.74 | 15267.63 | 30741.22 |
| 0.660  | A51.00 | 0.00      | 0.00      | -15.00 | 20404.00 | 2.90 | 0.00  | 2.98 | 1.15  | 2.16 | 9424.68  | 18994.06 |
| 0.660  | A52.00 | 0.00      | 0.00      | -15.00 | 26122.00 | 3.26 | 0.00  | 3.37 | 1.71  | 2.66 | 9832.93  | 19956.38 |
| 0.660  | A52.00 | 0.00      | 0.00      | -15.00 | 29990.00 | 3.62 | 0.00  | 3.75 | 2.04  | 2.92 | 10276.48 | 21018.48 |
| 0.660  | A52.00 | 0.00      | 0.00      | -15.00 | 34004.00 | 4.02 | 0.00  | 4.17 | 2.34  | 3.16 | 10765.69 | 22208.98 |
| 0.660  | A52.00 | 0.00      | 0.00      | -15.00 | 37825.00 | 4.44 | 0.00  | 4.61 | 2.57  | 3.34 | 11452.37 | 23575.57 |
| 0.660  | A52.00 | 0.00      | 0.00      | -15.00 | 61985.00 | 7.27 | 0.00  | 7.48 | 3.68  | 3.68 | 19357.57 | 36124.24 |

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Bernard Johnson Incorporated

|       |        |      |       |          |      |      |      |      |          |                   |          |
|-------|--------|------|-------|----------|------|------|------|------|----------|-------------------|----------|
| 1.017 | 713.00 | 0.00 | -9.60 | 20404.00 | 3.01 | 0.00 | 3.02 | 0.22 | 24868.25 | 438845.30         |          |
| 1.017 | 713.00 | 0.00 | -9.60 | 26122.00 | 3.42 | 0.00 | 3.43 | 0.29 | 0.99     | 26386.95          | 48390.59 |
| 1.017 | 713.00 | 0.00 | -9.60 | 29990.00 | 3.81 | 0.00 | 3.83 | 0.32 | 1.08     | 27831.76          | 52877.53 |
| 1.017 | 713.00 | 0.00 | -9.60 | 34004.00 | 4.23 | 0.00 | 4.25 | 0.34 | 1.16     | 29402.17          | 57930.92 |
| 1.017 | 713.00 | 0.00 | -9.60 | 37825.00 | 4.68 | 0.00 | 4.70 | 0.35 | 1.22     | 31068.70          | 63490.69 |
| 1.017 | 713.00 | 0.00 | -9.60 | 61985.00 | 7.54 | 0.00 | 7.57 | 0.36 | 1.49     | 41706.21103518.24 |          |
| 1.017 | 713.00 | 0.00 | -9.60 | 61985.00 | 7.54 | 0.00 | 7.57 | 0.36 | 1.49     | 41706.21103518.24 |          |

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| SER#N | YLFH    | ELTHD | ELTC | FLMIN | Q        | CWSEL | CRIMs | E6   | 10KsS | VCH  | AREA     | .01K       |
|-------|---------|-------|------|-------|----------|-------|-------|------|-------|------|----------|------------|
| 1.288 | 1426.00 | 0.00  | 0.00 | -9.60 | 20404.00 | 3.03  | 0.00  | 3.04 | 0.13  | 0.76 | 26714.69 | 56941.00   |
| 1.288 | 1426.00 | 0.00  | 0.00 | -9.60 | 26122.00 | 3.45  | 0.00  | 3.47 | 0.17  | 0.92 | 28370.26 | 62900.55   |
| 1.288 | 1426.00 | 0.00  | 0.00 | -9.60 | 29990.00 | 3.85  | 0.00  | 3.86 | 0.19  | 1.00 | 29929.71 | 68717.65   |
| 1.288 | 1426.00 | 0.00  | 0.00 | -9.60 | 34004.00 | 4.27  | 0.00  | 4.29 | 0.20  | 1.06 | 31623.09 | 75252.48   |
| 1.288 | 1426.00 | 0.00  | 0.00 | -9.60 | 37825.00 | 4.72  | 0.00  | 4.74 | 0.21  | 1.13 | 33416.97 | 82416.63   |
| 1.288 | 1426.00 | 0.00  | 0.00 | -9.60 | 61985.00 | 7.58  | 0.00  | 7.61 | 0.21  | 1.39 | 46530.75 | 134285.34  |
| 1.498 | 1109.00 | 0.00  | 0.00 | -9.60 | 18486.00 | 3.05  | 0.00  | 3.07 | 0.31  | 1.10 | 16906.51 | 33403.38   |
| 1.498 | 1109.00 | 0.00  | 0.00 | -9.60 | 23780.00 | 3.47  | 0.00  | 3.50 | 0.40  | 1.32 | 18106.27 | 37387.60   |
| 1.498 | 1109.00 | 0.00  | 0.00 | -9.60 | 27337.00 | 3.87  | 0.00  | 3.90 | 0.44  | 1.43 | 19226.22 | 41258.64   |
| 1.498 | 1109.00 | 0.00  | 0.00 | -9.60 | 30996.00 | 4.29  | 0.00  | 4.33 | 0.46  | 1.53 | 20427.64 | 45560.54   |
| 1.498 | 1109.00 | 0.00  | 0.00 | -9.60 | 34566.00 | 4.74  | 0.00  | 4.78 | 0.47  | 1.60 | 21722.53 | 50333.59   |
| 1.498 | 1109.00 | 0.00  | 0.00 | -9.60 | 57473.00 | 7.60  | 0.00  | 7.66 | 0.46  | 1.94 | 30507.33 | 85035.23   |
| 1.898 | 2112.00 | 0.00  | 0.00 | -9.60 | 17292.00 | 3.09  | 0.00  | 3.10 | 0.08  | 0.58 | 29951.63 | 60433.65   |
| 1.898 | 2112.00 | 0.00  | 0.00 | -9.60 | 22322.00 | 3.53  | 0.00  | 3.54 | 0.11  | 0.70 | 32065.22 | 67628.20   |
| 1.898 | 2112.00 | 0.00  | 0.00 | -9.60 | 25685.00 | 3.93  | 0.00  | 3.94 | 0.12  | 0.76 | 33999.77 | 74483.73   |
| 1.898 | 2112.00 | 0.00  | 0.00 | -9.60 | 29122.00 | 4.36  | 0.00  | 4.37 | 0.13  | 0.81 | 36086.29 | 82160.15   |
| 1.898 | 2112.00 | 0.00  | 0.00 | -9.60 | 32536.00 | 4.82  | 0.00  | 4.83 | 0.13  | 0.85 | 38278.91 | 90532.84   |
| 1.898 | 2112.00 | 0.00  | 0.00 | -9.60 | 54662.00 | 7.69  | 0.00  | 7.70 | 0.13  | 1.06 | 52375.61 | 150944.77  |
| 2.208 | 1637.00 | 0.00  | 0.00 | -9.60 | 16317.00 | 3.11  | 0.00  | 3.11 | 0.12  | 0.78 | 21036.01 | 47362.81   |
| 2.208 | 1637.00 | 0.00  | 0.00 | -9.60 | 21132.00 | 3.55  | 0.00  | 3.56 | 0.16  | 0.95 | 22276.98 | 52069.62   |
| 2.208 | 1637.00 | 0.00  | 0.00 | -9.60 | 24337.00 | 3.95  | 0.00  | 3.97 | 0.18  | 1.04 | 23433.73 | 56607.43   |
| 2.208 | 1637.00 | 0.00  | 0.00 | -9.60 | 27594.00 | 4.38  | 0.00  | 4.40 | 0.20  | 1.12 | 24680.31 | 61656.38   |
| 2.208 | 1637.00 | 0.00  | 0.00 | -9.60 | 30881.00 | 4.84  | 0.00  | 4.86 | 0.21  | 1.19 | 25989.99 | 67134.02   |
| 2.208 | 1637.00 | 0.00  | 0.00 | -9.60 | 52367.00 | 7.70  | 0.00  | 7.74 | 0.24  | 1.53 | 36145.11 | 1106263.97 |
| 2.498 | 1531.00 | 0.00  | 0.00 | -9.60 | 15405.00 | 3.12  | 0.00  | 3.12 | 0.04  | 0.46 | 33624.23 | 79621.47   |
| 2.498 | 1531.00 | 0.00  | 0.00 | -9.60 | 20119.00 | 3.57  | 0.00  | 3.57 | 0.05  | 0.56 | 35524.50 | 87121.16   |
| 2.498 | 1531.00 | 0.00  | 0.00 | -9.60 | 23077.00 | 3.98  | 0.00  | 3.98 | 0.06  | 0.62 | 37243.46 | 94307.69   |
| 2.498 | 1531.00 | 0.00  | 0.00 | -9.60 | 26163.00 | 4.41  | 0.00  | 4.42 | 0.07  | 0.67 | 39090.91 | 102169.95  |
| 2.498 | 1531.00 | 0.00  | 0.00 | -9.60 | 29332.00 | 4.87  | 0.00  | 4.88 | 0.07  | 0.72 | 41027.78 | 110667.93  |
| 2.498 | 1531.00 | 0.00  | 0.00 | -9.60 | 50224.00 | 7.75  | 0.00  | 7.76 | 0.09  | 0.95 | 53653.09 | 170462.72  |
| 2.498 | 2567.00 | 0.00  | 0.00 | -9.60 | 12041.00 | 3.13  | 0.00  | 3.13 | 0.03  | 0.39 | 30736.84 | 67958.68   |
| 2.498 | 2567.00 | 0.00  | 0.00 | -9.60 | 17038.00 | 3.58  | 0.00  | 3.59 | 0.06  | 0.55 | 32688.46 | 75290.56   |
| 2.498 | 2567.00 | 0.00  | 0.00 | -9.60 | 20725.00 | 3.99  | 0.00  | 4.00 | 0.06  | 0.60 | 34441.24 | 82139.48   |
| 2.498 | 2567.00 | 0.00  | 0.00 | -9.60 | 23603.00 | 4.43  | 0.00  | 4.44 | 0.07  | 0.65 | 36320.40 | 89735.85   |
| 2.498 | 2567.00 | 0.00  | 0.00 | -9.60 | 26424.00 | 4.89  | 0.00  | 4.90 | 0.07  | 0.69 | 38287.67 | 97964.69   |
|       |         |       |      | -9.60 | 46985.00 | 7.77  | 0.00  | 7.78 | 0.09  | 0.93 | 51167.72 | 156250.78  |

|       |         |      |       |          |      |      |      |      |                   |          |
|-------|---------|------|-------|----------|------|------|------|------|-------------------|----------|
| 3.417 | 2270.00 | 0.00 | -9.60 | 12041.00 | 3.14 | 0.00 | 3.14 | 0.04 | 27053.85          | 59116.49 |
| 3.417 | 2270.00 | 0.00 | -9.60 | 17938.00 | 3.60 | 0.00 | 3.60 | 0.07 | 28837.16          | 65664.41 |
| 3.417 | 2270.00 | 0.00 | -9.60 | 20725.00 | 4.01 | 0.00 | 4.01 | 0.08 | 30433.82          | 71741.13 |
| 3.417 | 2270.00 | 0.00 | -9.60 | 23663.00 | 4.45 | 0.00 | 4.46 | 0.09 | 3150.36           | 78489.41 |
| 3.417 | 2270.00 | 0.00 | -9.60 | 26424.00 | 4.91 | 0.00 | 4.91 | 0.09 | 32954.22          | 85600.55 |
| 3.417 | 2270.00 | 0.00 | -9.60 | 46985.00 | 7.79 | 0.00 | 7.81 | 0.12 | 45512.70137640.53 | 1.05     |
| 3.417 | 2270.00 | 0.00 | -9.60 | 46985.00 | 7.79 | 0.00 | 7.81 | 0.12 |                   |          |

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| STRN  | XLCR    | FLTRD | FLLC | FLMIN  | U        | CSEL | CRWS | EG    | 10K*5    | VCH      | AREA     | .01K     |  |
|-------|---------|-------|------|--------|----------|------|------|-------|----------|----------|----------|----------|--|
| 3.607 | 1003.00 | 0.00  | 0.00 | -9.60  | 12041.00 | 3.14 | 0.00 | 0.21  | 13243.96 | 26612.43 |          |          |  |
| 3.607 | 1003.00 | 0.00  | 0.00 | -9.60  | 17938.00 | 3.60 | 0.00 | 1.26  | 14235.38 | 29996.21 |          |          |  |
| 3.607 | 1003.00 | 0.00  | 0.00 | -9.60  | 20725.00 | 4.01 | 0.00 | 0.39  | 1.57     | 15115.41 | 33129.15 |          |  |
| 3.607 | 1003.00 | 0.00  | 0.00 | -9.60  | 23663.00 | 4.45 | 0.00 | 0.42  | 1.48     | 16059.41 | 36621.55 |          |  |
| 3.607 | 1003.00 | 0.00  | 0.00 | -9.60  | 26424.00 | 4.91 | 0.00 | 0.43  | 1.55     | 17046.27 | 40414.73 |          |  |
| 3.607 | 1003.00 | 0.00  | 0.00 | -9.60  | 46985.00 | 7.78 | 0.00 | 0.49  | 2.03     | 23246.91 | 67365.50 |          |  |
| 3.607 | 1003.00 | 0.00  | 0.00 | -9.60  | 12041.00 | 3.19 | 0.00 | 3.21  | 0.36     | 1.07     | 11219.28 | 20003.61 |  |
| 3.977 | 1954.00 | 0.00  | 0.00 | -9.60  | 17938.00 | 3.69 | 0.00 | 3.72  | 0.59     | 1.46     | 12291.77 | 23276.26 |  |
| 3.977 | 1954.00 | 0.00  | 0.00 | -9.60  | 20725.00 | 4.10 | 0.00 | 4.14  | 0.63     | 1.57     | 13191.56 | 26169.02 |  |
| 3.977 | 1954.00 | 0.00  | 0.00 | -9.60  | 23663.00 | 4.55 | 0.00 | 4.59  | 0.65     | 1.68     | 14151.34 | 29398.27 |  |
| 3.977 | 1954.00 | 0.00  | 0.00 | -9.60  | 26424.00 | 5.00 | 0.00 | 5.05  | 0.65     | 1.75     | 15146.40 | 32898.56 |  |
| 3.977 | 1954.00 | 0.00  | 0.00 | -9.60  | 46985.00 | 7.89 | 0.00 | 7.96  | 0.65     | 2.20     | 21447.26 | 58379.42 |  |
| 3.977 | 1954.00 | 0.00  | 0.00 | -13.60 | 12041.00 | 3.25 | 0.00 | 3.37  | 2.01     | 2.78     | 4332.33  | 8493.43  |  |
| 4.227 | 1320.00 | 0.00  | 0.00 | -13.60 | 17938.00 | 3.78 | 0.00 | 4.00  | 3.38     | 3.81     | 4713.40  | 9756.56  |  |
| 4.227 | 1320.00 | 0.00  | 0.00 | -13.60 | 20725.00 | 4.19 | 0.00 | 4.45  | 3.67     | 4.13     | 5020.89  | 10820.44 |  |
| 4.227 | 1320.00 | 0.00  | 0.00 | -14.20 | 23663.00 | 4.65 | 0.00 | 4.71  | 0.53     | 1.64     | 13024.92 | 32505.86 |  |
| 4.227 | 1320.00 | 0.00  | 0.00 | -14.20 | 26424.00 | 5.12 | 0.00 | 5.17  | 0.56     | 1.75     | 13984.70 | 35411.07 |  |
| 4.227 | 1320.00 | 0.00  | 0.00 | -14.20 | 46985.00 | 8.01 | 0.00 | 8.09  | 0.67     | 2.37     | 21638.37 | 57361.19 |  |
| 4.227 | 1320.00 | 0.00  | 0.00 | -14.20 | 12041.00 | 3.51 | 0.00 | 3.53  | 0.22     | 1.18     | 10172.99 | 25693.11 |  |
| 4.857 | 3326.00 | 0.00  | 0.00 | -8.20  | 17938.00 | 4.13 | 0.00 | 4.14  | 0.13     | 0.96     | 18956.84 | 49452.27 |  |
| 4.857 | 3326.00 | 0.00  | 0.00 | -14.20 | 20725.00 | 4.60 | 0.00 | 4.61  | 0.15     | 1.05     | 20244.32 | 53710.07 |  |
| 4.857 | 3326.00 | 0.00  | 0.00 | -14.20 | 23663.00 | 4.76 | 0.00 | 4.78  | 0.18     | 1.18     | 20693.34 | 55231.68 |  |
| 4.857 | 3326.00 | 0.00  | 0.00 | -14.20 | 26424.00 | 5.23 | 0.00 | 5.25  | 0.20     | 1.26     | 21982.57 | 59708.75 |  |
| 4.857 | 3326.00 | 0.00  | 0.00 | -14.20 | 46985.00 | 8.15 | 0.00 | 8.19  | 0.26     | 1.72     | 30218.89 | 91547.23 |  |
| 4.857 | 3326.00 | 0.00  | 0.00 | -8.20  | 12041.00 | 3.60 | 0.00 | 3.66  | 0.22     | 1.18     | 10172.99 | 25693.11 |  |
| 5.447 | 5115.00 | 0.00  | 0.00 | -12.80 | 17938.00 | 4.54 | 0.00 | 5.15  | 4.89     | 6.39     | 4198.34  | 8113.51  |  |
| 5.447 | 5115.00 | 0.00  | 0.00 | -12.80 | 20725.00 | 5.04 | 0.00 | 5.72  | 5.33     | 6.87     | 5058.19  | 8977.14  |  |
| 5.447 | 5115.00 | 0.00  | 0.00 | -12.80 | 23663.00 | 5.28 | 0.00 | 6.10  | 6.31     | 7.58     | 5498.49  | 9420.93  |  |
| 5.447 | 5115.00 | 0.00  | 0.00 | -12.80 | 26424.00 | 5.75 | 0.00 | 6.62  | 6.49     | 7.90     | 6418.69  | 10375.96 |  |
| 5.447 | 5115.00 | 0.00  | 0.00 | -12.80 | 46985.00 | 8.66 | 0.00 | 9.61  | 6.52     | 9.15     | 13463.74 | 18403.59 |  |
| 5.447 | 5115.00 | 0.00  | 0.00 | -12.80 | 12041.00 | 4.06 | 0.00 | 4.27  | 2.06     | 3.72     | 3380.52  | 8384.63  |  |
| 5.647 | 1056.00 | 0.00  | 0.00 | -12.80 | 17938.00 | 5.39 | 0.00 | 5.49  | 1.15     | 3.04     | 9378.57  | 16708.35 |  |
| 5.647 | 1056.00 | 0.00  | 0.00 | -12.80 | 20725.00 | 5.99 | 0.00 | 6.09  | 1.11     | 3.10     | 10988.81 | 19672.42 |  |
| 5.647 | 1056.00 | 0.00  | 0.00 | -12.80 | 23663.00 | 6.41 | 0.00 | 6.52  | 1.16     | 3.25     | 12166.70 | 21957.62 |  |
| 5.647 | 1056.00 | 0.00  | 0.00 | -12.80 | 26424.00 | 6.94 | 0.00 | 7.04  | 1.12     | 3.28     | 13645.28 | 24997.27 |  |
| 5.647 | 1056.00 | 0.00  | 0.00 | -12.80 | 46985.00 | 9.91 | 0.00 | 10.03 | 1.04     | 3.67     | 22430.13 | 45972.40 |  |

|       |         |      |        |          |      |      |       |      |         |          |
|-------|---------|------|--------|----------|------|------|-------|------|---------|----------|
| 5.857 | 1050.00 | 0.00 | -15.00 | 12041.00 | 4.27 | 4.55 | 2.77  | 4.38 | 4070.39 | 7229.40  |
| 5.857 | 1050.00 | 0.00 | -15.00 | 17938.00 | 5.44 | 5.00 | 5.88  | 5.59 | 5297.73 | 9030.01  |
| 5.857 | 1050.00 | 0.00 | -15.00 | 20725.00 | 6.01 | 6.00 | 6.50  | 4.27 | 6.01    | 6005.64  |
| 5.857 | 1050.00 | 0.00 | -15.00 | 23663.00 | 6.41 | 6.00 | 6.98  | 4.79 | 6.51    | 6723.85  |
| 5.857 | 1050.00 | 0.00 | -15.00 | 20424.00 | 6.91 | 6.00 | 7.53  | 4.95 | 6.80    | 7675.28  |
| 5.857 | 1050.00 | 0.00 | -15.00 | 46985.00 | 9.79 | 0.00 | 10.63 | 8.47 | 5.88    | 13308.82 |
| 5.857 | 1050.00 | 0.00 | -15.00 | 1050.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00    | 0.00     |
| 5.857 | 1050.00 | 0.00 | -15.00 | 1050.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00    | 0.00     |
| 5.857 | 1050.00 | 0.00 | -15.00 | 1050.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00    | 0.00     |
| 5.857 | 1050.00 | 0.00 | -15.00 | 1050.00  | 0.00 | 0.00 | 0.00  | 0.00 | 0.00    | 0.00     |

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| STNNO | YLRD    | FLTKD  | FLLC      | FLMIN     | Q        | CSEL     | CRWS  | EG    | 10K*S | VCH  | AREA     | .01K     |          |
|-------|---------|--------|-----------|-----------|----------|----------|-------|-------|-------|------|----------|----------|----------|
| 6.398 | 750.00  | 0.00   | 0.00      | -15.00    | 12041.00 | 4.58     | 0.00  | 4.83  | 4.20  | 5.44 | 5684.16  | 5877.97  |          |
| 6.398 | 750.00  | 0.00   | 0.00      | -15.00    | 17938.00 | 5.96     | 0.00  | 6.28  | 5.26  | 6.37 | 8377.10  | 7820.59  |          |
| 6.398 | 750.00  | 0.00   | 0.00      | -15.00    | 20725.00 | 6.63     | 0.00  | 6.95  | 5.33  | 6.55 | 9801.37  | 8980.60  |          |
| 6.398 | 750.00  | 0.00   | 0.00      | -15.00    | 23663.00 | 7.15     | 0.00  | 7.48  | 5.61  | 6.83 | 10944.21 | 9966.11  |          |
| 6.398 | 750.00  | 0.00   | 0.00      | -15.00    | 26424.00 | 7.71     | 0.00  | 8.05  | 5.60  | 6.93 | 12214.34 | 11170.34 |          |
| 6.398 | 750.00  | 0.00   | 0.00      | -15.00    | 46985.00 | 10.93    | 0.00  | 11.27 | 5.69  | 7.62 | 20120.86 | 19700.66 |          |
| *     | 6.408   | 500.00 | 100000.00 | 100000.00 | -15.00   | 12041.00 | 4.60  | 0.00  | 4.84  | 3.46 | 5.16     | 5875.77  | 6469.62  |
| *     | 6.408   | 500.00 | 100000.00 | 100000.00 | -15.00   | 17938.00 | 5.99  | 0.00  | 6.30  | 4.45 | 6.10     | 8604.04  | 8502.29  |
| *     | 6.408   | 500.00 | 100000.00 | 100000.00 | -15.00   | 20725.00 | 6.66  | 0.00  | 6.97  | 4.57 | 6.30     | 10031.67 | 9699.22  |
| *     | 6.408   | 500.00 | 100000.00 | 100000.00 | -15.00   | 23663.00 | 7.18  | 0.00  | 7.51  | 4.86 | 6.60     | 11175.13 | 10731.40 |
| *     | 6.408   | 500.00 | 100000.00 | 100000.00 | -15.00   | 26424.00 | 7.74  | 0.00  | 8.08  | 4.89 | 6.72     | 12449.52 | 11947.52 |
| *     | 6.408   | 500.00 | 100000.00 | 100000.00 | -15.00   | 46985.00 | 10.98 | 0.00  | 11.32 | 5.12 | 7.48     | 20460.04 | 20763.09 |
| 6.605 | 500.00  | 0.00   | 0.00      | -15.00    | 12041.00 | 4.77     | 0.00  | 5.01  | 2.76  | 4.91 | 6156.12  | 7254.15  |          |
| 6.605 | 500.00  | 0.00   | 0.00      | -15.00    | 17938.00 | 6.19     | 0.00  | 6.51  | 3.49  | 5.97 | 8808.11  | 9599.61  |          |
| 6.605 | 500.00  | 0.00   | 0.00      | -15.00    | 20725.00 | 6.86     | 0.00  | 7.19  | 3.60  | 6.27 | 10155.86 | 10927.50 |          |
| 6.605 | 500.00  | 0.00   | 0.00      | -15.00    | 23663.00 | 7.39     | 0.00  | 7.75  | 3.84  | 6.64 | 11252.87 | 12078.85 |          |
| 6.605 | 500.00  | 0.00   | 0.00      | -15.00    | 26424.00 | 7.95     | 0.00  | 8.33  | 3.89  | 6.86 | 12454.82 | 13395.44 |          |
| 6.605 | 500.00  | 0.00   | 0.00      | -15.00    | 46985.00 | 11.18    | 0.00  | 11.62 | 4.27  | 8.19 | 20002.35 | 22741.37 |          |
| 6.716 | 500.00  | 0.00   | 0.00      | -12.00    | 12041.00 | 5.02     | 0.00  | 5.05  | 0.10  | 1.23 | 10390.37 | 28016.38 |          |
| 6.716 | 500.00  | 0.00   | 0.00      | -12.00    | 17938.00 | 6.53     | 0.00  | 6.57  | 0.26  | 1.60 | 12242.98 | 35150.00 |          |
| 6.716 | 500.00  | 0.00   | 0.00      | -12.00    | 20725.00 | 7.20     | 0.00  | 7.25  | 0.29  | 1.74 | 13084.01 | 38589.69 |          |
| 6.716 | 500.00  | 0.00   | 0.00      | -12.00    | 23663.00 | 7.76     | 0.00  | 7.81  | 0.33  | 1.90 | 13775.44 | 41506.97 |          |
| 6.716 | 500.00  | 0.00   | 0.00      | -12.00    | 26424.00 | 8.33     | 0.00  | 8.39  | 0.35  | 2.03 | 14488.89 | 44599.14 |          |
| 6.716 | 500.00  | 0.00   | 0.00      | -12.00    | 46985.00 | 11.58    | 0.00  | 11.70 | 0.54  | 2.90 | 18607.67 | 63969.67 |          |
| 7.028 | 1594.00 | 0.00   | 0.00      | -15.00    | 11590.00 | 5.06     | 0.00  | 5.10  | 0.45  | 1.58 | 7541.48  | 17333.68 |          |
| 7.028 | 1584.00 | 0.00   | 0.00      | -15.00    | 17569.00 | 6.57     | 0.00  | 6.63  | 0.57  | 2.00 | 9603.35  | 23267.40 |          |
| 7.028 | 1584.00 | 0.00   | 0.00      | -15.00    | 20142.00 | 7.25     | 0.00  | 7.32  | 0.59  | 2.13 | 11183.07 | 26249.85 |          |
| 7.028 | 1584.00 | 0.00   | 0.00      | -15.00    | 22987.00 | 7.81     | 0.00  | 7.89  | 0.63  | 2.29 | 12558.81 | 28856.50 |          |
| 7.028 | 1584.00 | 0.00   | 0.00      | -15.00    | 25720.00 | 8.39     | 0.00  | 8.48  | 0.66  | 2.42 | 14032.57 | 31669.20 |          |
| 7.028 | 1584.00 | 0.00   | 0.00      | -15.00    | 44356.00 | 11.67    | 0.00  | 11.81 | 0.77  | 3.11 | 23303.43 | 50388.95 |          |
| 7.308 | 1350.00 | 0.00   | 0.00      | -15.00    | 11590.00 | 5.16     | 0.00  | 5.21  | 1.39  | 1.90 | 7513.51  | 9841.43  |          |
| 7.308 | 1350.00 | 0.00   | 0.00      | -15.00    | 17569.00 | 6.68     | 0.00  | 6.75  | 1.19  | 2.13 | 10363.76 | 16127.54 |          |
| 7.308 | 1350.00 | 0.00   | 0.00      | -15.00    | 20142.00 | 7.36     | 0.00  | 7.43  | 1.08  | 2.19 | 11678.51 | 19352.40 |          |
| 7.308 | 1350.00 | 0.00   | 0.00      | -15.00    | 22987.00 | 7.93     | 0.00  | 8.01  | 1.07  | 2.30 | 12792.10 | 22222.57 |          |
| 7.308 | 1350.00 | 0.00   | 0.00      | -15.00    | 25720.00 | 8.51     | 0.00  | 8.59  | 1.03  | 2.37 | 13945.80 | 25318.44 |          |
|       |         |        |           |           |          | 11.82    | 0.00  | 11.93 | 0.92  | 2.63 | 21110.61 | 46304.62 |          |

|       |        |      |        |          |       |      |       |      |          |          |
|-------|--------|------|--------|----------|-------|------|-------|------|----------|----------|
| 7.476 | R00.04 | 0.00 | -15.00 | 11590.00 | 5.23  | 0.00 | 5.25  | 0.26 | 9648.40  | 22662.20 |
| 7.476 | R00.04 | 0.00 | -15.00 | 17569.00 | 6.76  | 0.00 | 6.80  | 0.33 | 11943.17 | 30359.19 |
| 7.476 | R00.04 | 0.00 | -15.00 | 20142.00 | 7.44  | 0.00 | 7.48  | 0.35 | 13031.41 | 34150.54 |
| 7.476 | R00.04 | 0.00 | -15.00 | 22967.00 | 8.01  | 0.00 | 8.06  | 0.38 | 13956.89 | 37456.66 |
| 7.476 | R00.04 | 0.00 | -15.00 | 25720.00 | 8.59  | 0.00 | 8.64  | 0.39 | 14916.25 | 40951.03 |
| 7.476 | R00.04 | 0.00 | -15.00 | 44356.00 | 11.89 | 0.00 | 11.99 | 0.49 | 20947.38 | 63594.52 |

| STCNO | XLCN   | FLTKD | FLIC  | ELMIN  | Q        | CWSEL    | CKTWS | EG    | 10K*S | VCH   | AREA     | .01K     |          |
|-------|--------|-------|-------|--------|----------|----------|-------|-------|-------|-------|----------|----------|----------|
| 7.958 | 700.00 | 0.00  | 0.00  | -15.00 | 11590.00 | 5.22     | 0.00  | 5.31  | 0.61  | 2.38  | 4887.13  | 14801.67 |          |
| 7.958 | 700.00 | 0.00  | 0.00  | -15.00 | 17569.00 | 6.75     | 0.00  | 6.90  | 1.29  | 3.14  | 5870.69  | 15439.59 |          |
| 7.958 | 700.00 | 0.00  | 0.00  | -15.00 | 20142.00 | 7.43     | 0.00  | 7.60  | 1.65  | 3.34  | 6443.29  | 15666.35 |          |
| 7.958 | 700.00 | 0.00  | 0.00  | -15.00 | 22987.00 | 8.00     | 0.00  | 8.19  | 2.01  | 3.57  | 6982.47  | 16200.86 |          |
| 7.958 | 700.00 | 0.00  | 0.00  | -15.00 | 25720.00 | 8.58     | 0.00  | 8.79  | 2.30  | 3.72  | 7586.10  | 16970.71 |          |
| 7.958 | 700.00 | 0.00  | 0.00  | -15.00 | 44356.00 | 11.93    | 0.00  | 12.12 | 3.05  | 3.64  | 14873.51 | 25393.97 |          |
| 7.959 | 2.00   | 12.10 | 17.50 | -15.00 | 11590.00 | 5.22     | 0.00  | 5.32  | 1.21  | 2.56  | 4531.57  | 10520.70 |          |
| 7.959 | 2.00   | 12.10 | 17.50 | -15.00 | 17569.00 | 6.73     | 0.00  | 6.92  | 2.05  | 3.44  | 5106.17  | 12257.57 |          |
| 7.959 | 2.00   | 12.10 | 17.50 | -15.00 | 20142.00 | 7.40     | 0.00  | 7.62  | 2.38  | 3.76  | 5362.79  | 13065.04 |          |
| 7.954 | 2.00   | 12.10 | 17.50 | -15.00 | 22987.00 | 7.96     | 0.00  | 8.23  | 2.80  | 4.12  | 5561.31  | 13745.27 |          |
| *     | 7.959  | 2.00  | 12.10 | 17.50  | -15.00   | 25720.00 | 8.53  | 0.00  | 8.83  | 3.17  | 4.43     | 5805.13  | 14448.71 |
| *     | 7.959  | 2.00  | 12.10 | 17.50  | -15.00   | 44356.00 | 11.66 | 0.00  | 12.39 | 11.98 | 6.87     | 6456.85  | 12812.78 |
| 7.960 | 12.00  | 12.10 | 17.50 | -15.00 | 11590.00 | 5.22     | 0.00  | 5.32  | 1.22  | 2.56  | 4529.46  | 10514.62 |          |
| 7.960 | 12.00  | 12.10 | 17.50 | -15.00 | 17569.00 | 6.73     | 0.00  | 6.92  | 2.06  | 3.44  | 5103.96  | 12250.61 |          |
| 7.960 | 12.00  | 12.10 | 17.50 | -15.00 | 20142.00 | 7.41     | 0.00  | 7.63  | 2.38  | 3.76  | 5363.74  | 13067.96 |          |
| 7.960 | 12.00  | 12.10 | 17.50 | -15.00 | 22987.00 | 7.97     | 0.00  | 8.23  | 2.80  | 4.12  | 5582.46  | 13748.84 |          |
| *     | 7.960  | 12.00 | 12.10 | 17.50  | -15.00   | 25720.00 | 8.53  | 0.00  | 8.84  | 3.17  | 4.43     | 5806.44  | 14452.83 |
| *     | 7.960  | 12.00 | 12.10 | 17.50  | -15.00   | 44356.00 | 11.67 | 0.00  | 12.41 | 11.98 | 6.87     | 6457.69  | 12814.77 |
| 7.961 | 2.00   | 0.00  | 0.00  | -15.00 | 11590.00 | 5.19     | 0.00  | 5.35  | 1.45  | 3.77  | 4824.79  | 9634.78  |          |
| 7.961 | 2.00   | 0.00  | 0.00  | -15.00 | 17569.00 | 6.72     | 0.00  | 6.93  | 2.22  | 4.45  | 5796.74  | 9791.29  |          |
| 7.961 | 2.00   | 0.00  | 0.00  | -15.00 | 20142.00 | 7.43     | 0.00  | 7.63  | 2.10  | 4.40  | 6365.34  | 9951.68  |          |
| 7.961 | 2.00   | 0.00  | 0.00  | -15.00 | 22987.00 | 8.04     | 0.00  | 8.25  | 2.63  | 4.44  | 6944.13  | 10459.51 |          |
| 7.961 | 2.00   | 0.00  | 0.00  | -15.00 | 25720.00 | 8.65     | 0.00  | 8.87  | 2.25  | 4.43  | 7585.85  | 11220.12 |          |
| 7.961 | 2.00   | 0.00  | 0.00  | -15.00 | 44356.00 | 12.33    | 0.00  | 12.56 | 3.95  | 4.66  | 14845.38 | 22327.94 |          |
| 8.008 | 528.00 | 0.00  | 0.00  | -15.00 | 11590.00 | 5.37     | 0.00  | 5.43  | 1.24  | 2.29  | 7569.80  | 10410.33 |          |
| 8.008 | 528.00 | 0.00  | 0.00  | -15.00 | 17569.00 | 6.95     | 0.00  | 7.05  | 1.41  | 2.83  | 9986.04  | 14783.22 |          |
| 8.008 | 528.00 | 0.00  | 0.00  | -15.00 | 20142.00 | 7.65     | 0.00  | 7.75  | 1.41  | 2.99  | 11131.82 | 16944.68 |          |
| 8.008 | 528.00 | 0.00  | 0.00  | -15.00 | 22987.00 | 8.25     | 0.00  | 8.37  | 1.47  | 3.16  | 12188.26 | 18972.51 |          |
| 8.008 | 528.00 | 0.00  | 0.00  | -15.00 | 25720.00 | 8.86     | 0.00  | 8.99  | 1.48  | 3.33  | 13298.53 | 21134.02 |          |
| 8.008 | 528.00 | 0.00  | 0.00  | -15.00 | 44356.00 | 12.49    | 0.00  | 12.66 | 1.44  | 4.05  | 21309.93 | 36917.22 |          |
| 8.009 | 5.00   | 11.90 | 17.20 | -15.00 | 11590.00 | 5.24     | 0.00  | 5.56  | 2.50  | 4.84  | 4584.08  | 7328.91  |          |
| 8.009 | 5.00   | 11.90 | 17.20 | -15.00 | 17569.00 | 6.71     | 0.00  | 7.29  | 4.11  | 6.55  | 5194.17  | 8670.01  |          |
| 8.009 | 5.00   | 11.90 | 17.20 | -15.00 | 20142.00 | 7.35     | 0.00  | 8.04  | 4.70  | 7.18  | 5468.78  | 9290.41  |          |
| 8.009 | 5.00   | 11.90 | 17.20 | -15.00 | 22987.00 | 7.89     | 0.00  | 8.73  | 5.47  | 7.89  | 5706.85  | 9832.97  |          |
| 8.009 | 5.00   | 11.90 | 17.20 | -15.00 | 25720.00 | 8.44     | 0.00  | 9.41  | 6.12  | 8.50  | 5950.42  | 10396.26 |          |
| *     | 8.009  | 5.00  | 11.90 | -15.00 | 44356.00 | 11.43    | 0.00  | 13.72 | 22.50 | 12.94 | 6809.48  | 9351.48  |          |

|       |       |       |       |        |          |       |      |       |       |       |         |          |
|-------|-------|-------|-------|--------|----------|-------|------|-------|-------|-------|---------|----------|
| d.011 | 12.00 | 11.90 | 17.20 | -15.00 | 11590.00 | 5.25  | 0.00 | 5.56  | 2.50  | 4.84  | 4584.98 | 7330.63  |
| 8.011 | 12.00 | 11.90 | 17.20 | -15.00 | 17569.00 | 6.72  | 0.00 | 7.30  | 4.10  | 6.55  | 5195.53 | 8673.06  |
| 8.011 | 12.00 | 11.90 | 17.20 | -15.00 | 20142.00 | 7.36  | 0.00 | 8.05  | 4.70  | 7.18  | 5470.30 | 9293.86  |
| d.011 | 12.00 | 11.90 | 17.20 | -15.00 | 22987.00 | 7.90  | 0.00 | 8.74  | 5.46  | 7.88  | 5708.54 | 9836.85  |
| 8.011 | 12.00 | 11.90 | 17.20 | -15.00 | 25720.00 | 8.45  | 0.00 | 9.42  | 6.12  | 8.50  | 5952.20 | 10400.43 |
| 8.011 | 12.00 | 11.90 | 17.20 | -15.00 | 44356.00 | 11.46 | 0.00 | 13.75 | 22.47 | 12.98 | 6811.05 | 9356.84  |

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| SECNO | XLENH | FLENH | FLTRD | FLIC   | FLWIN    | W     | CSEL | CKWS  | 10K*S | VCH   | AREA     | .01K      |
|-------|-------|-------|-------|--------|----------|-------|------|-------|-------|-------|----------|-----------|
| 8.012 | 5.00  | 0.00  | 0.00  | -15.00 | 11590.00 | 5.30  | 0.00 | 5.57  | 2.20  | 4.65  | 4733.09  | 7811.95   |
| 8.012 | 5.00  | 0.00  | 0.00  | -15.00 | 17569.00 | 6.83  | 0.00 | 7.32  | 3.66  | 6.22  | 5378.90  | 9185.56   |
| 8.012 | 5.00  | 0.00  | 0.00  | -15.00 | 20142.00 | 7.50  | 0.00 | 8.09  | 4.24  | 6.76  | 5674.47  | 9781.76   |
| 8.012 | 5.00  | 0.00  | 0.00  | -15.00 | 22987.00 | 8.09  | 0.00 | 8.78  | 4.87  | 7.39  | 5936.34  | 10415.94  |
| 8.012 | 5.00  | 0.00  | 0.00  | -15.00 | 25720.00 | 8.68  | 0.00 | 9.47  | 5.37  | 7.92  | 6206.67  | 11096.20  |
| 8.012 | 5.00  | 0.00  | 0.00  | -15.00 | 44356.00 | 12.85 | 0.00 | 14.08 | 6.31  | 10.06 | 11458.88 | 17659.69  |
| 8.018 | 30.00 | 0.00  | 0.00  | -15.00 | 11590.00 | 5.31  | 0.00 | 5.58  | 2.10  | 4.58  | 4775.30  | 7993.93   |
| 8.018 | 30.00 | 0.00  | 0.00  | -15.00 | 17569.00 | 6.86  | 0.00 | 7.34  | 3.50  | 6.13  | 5427.90  | 9396.81   |
| 8.018 | 30.00 | 0.00  | 0.00  | -15.00 | 20142.00 | 7.54  | 0.00 | 8.10  | 4.06  | 6.66  | 5725.57  | 9999.78   |
| 8.018 | 30.00 | 0.00  | 0.00  | -15.00 | 22987.00 | 8.12  | 0.00 | 8.80  | 4.65  | 7.28  | 5995.24  | 10663.01  |
| 8.018 | 30.00 | 0.00  | 0.00  | -15.00 | 25720.00 | 8.72  | 0.00 | 9.50  | 5.13  | 7.81  | 6268.71  | 11356.95  |
| 8.018 | 30.00 | 0.00  | 0.00  | -15.00 | 44356.00 | 12.91 | 0.00 | 14.10 | 6.05  | 9.92  | 11637.15 | 18039.23  |
| 8.020 | 15.00 | 10.50 | 16.10 | -15.00 | 11590.00 | 5.30  | 0.00 | 5.61  | 2.31  | 4.81  | 4563.63  | 7620.93   |
| 8.020 | 15.00 | 10.50 | 16.10 | -15.00 | 17569.00 | 6.82  | 0.00 | 7.38  | 3.84  | 6.45  | 5202.57  | 8961.81   |
| 8.020 | 15.00 | 10.50 | 16.10 | -15.00 | 20142.00 | 7.49  | 0.00 | 8.16  | 4.41  | 7.03  | 5490.43  | 9592.06   |
| 8.020 | 15.00 | 10.50 | 16.10 | -15.00 | 22987.00 | 8.08  | 0.00 | 8.87  | 5.12  | 7.69  | 5742.95  | 10157.75  |
| 8.020 | 15.00 | 10.50 | 16.10 | -15.00 | 25720.00 | 8.70  | 0.00 | 9.53  | 8.08  | 8.03  | 5993.64  | 9047.64   |
| 8.020 | 15.00 | 10.50 | 16.10 | -15.00 | 44356.00 | 12.92 | 0.00 | 14.13 | 20.73 | 10.14 | 9006.47  | 9742.92   |
| 8.022 | 12.00 | 10.50 | 16.10 | -15.00 | 11590.00 | 5.30  | 0.00 | 5.61  | 2.31  | 4.81  | 4564.72  | 7623.14   |
| 8.022 | 12.00 | 10.50 | 16.10 | -15.00 | 17569.00 | 6.83  | 0.00 | 7.39  | 3.84  | 6.45  | 5204.45  | 8965.89   |
| 8.022 | 12.00 | 10.50 | 16.10 | -15.00 | 20142.00 | 7.50  | 0.00 | 8.16  | 4.40  | 7.03  | 5492.63  | 9596.94   |
| 8.022 | 12.00 | 10.50 | 16.10 | -15.00 | 22987.00 | 8.08  | 0.00 | 8.87  | 5.12  | 7.68  | 5745.51  | 10163.55  |
| 8.022 | 12.00 | 10.50 | 16.10 | -15.00 | 25720.00 | 8.71  | 0.00 | 9.54  | 8.09  | 8.02  | 5996.64  | 9044.59   |
| 8.022 | 12.00 | 10.50 | 16.10 | -15.00 | 44356.00 | 12.95 | 0.00 | 14.15 | 20.61 | 10.12 | 9045.72  | 9770.51   |
| 8.025 | 11.00 | 0.00  | 0.00  | -15.00 | 11590.00 | 5.67  | 0.00 | 5.70  | 0.45  | 1.38  | 10565.31 | 17204.97  |
| 8.025 | 11.00 | 0.00  | 0.00  | -15.00 | 17569.00 | 7.51  | 0.00 | 7.54  | 0.46  | 1.65  | 14302.21 | 25860.93  |
| 8.025 | 11.00 | 0.00  | 0.00  | -15.00 | 20142.00 | 8.31  | 0.00 | 8.35  | 0.45  | 1.72  | 16044.89 | 30175.24  |
| 8.025 | 11.00 | 0.00  | 0.00  | -15.00 | 22987.00 | 9.05  | 0.00 | 9.10  | 0.44  | 1.81  | 17841.78 | 34468.75  |
| 8.025 | 11.00 | 0.00  | 0.00  | -15.00 | 25720.00 | 9.73  | 0.00 | 9.78  | 0.44  | 1.89  | 19508.93 | 38743.61  |
| 8.025 | 11.00 | 0.00  | 0.00  | -15.00 | 44356.00 | 14.44 | 0.00 | 14.50 | 0.35  | 2.16  | 32848.63 | 474704.30 |
| 8.264 | 15.00 | 0.00  | 0.00  | -15.00 | 11590.00 | 5.67  | 0.00 | 5.70  | 0.45  | 1.38  | 10568.98 | 17204.97  |
| 8.264 | 15.00 | 0.00  | 0.00  | -15.00 | 17569.00 | 7.51  | 0.00 | 7.54  | 0.46  | 1.65  | 14308.19 | 25875.17  |
| 8.264 | 15.00 | 0.00  | 0.00  | -15.00 | 20142.00 | 8.31  | 0.00 | 8.35  | 0.45  | 1.72  | 16101.74 | 30191.87  |
| 8.264 | 15.00 | 0.00  | 0.00  | -15.00 | 22987.00 | 9.05  | 0.00 | 9.10  | 0.44  | 1.81  | 17849.82 | 34509.07  |
| 8.264 | 15.00 | 0.00  | 0.00  | -15.00 | 25720.00 | 9.73  | 0.00 | 9.78  | 0.44  | 1.88  | 19522.12 | 38777.61  |
| 8.264 | 15.00 | 0.00  | 0.00  | -15.00 | 44356.00 | 14.44 | 0.00 | 14.50 | 0.35  | 2.16  | 32869.85 | 474762.34 |

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|       |        |      |        |          |       |       |      |          |          |
|-------|--------|------|--------|----------|-------|-------|------|----------|----------|
| 8.374 | 581.00 | 0.00 | -15.00 | 11590.00 | 5.65  | 0.00  | 5.75 | 0.53     | 2.72     |
| 8.379 | 581.00 | 0.00 | 0.00   | 1750.00  | 7.47  | 0.00  | 7.61 | 0.72     | 3.42     |
| 8.379 | 581.00 | 0.00 | 0.00   | 20142.00 | 8.26  | 0.00  | 8.42 | 11052.08 | 20660.02 |
| 8.379 | 581.00 | 0.00 | 0.00   | 22987.00 | 9.00  | 0.00  | 9.17 | 12471.85 | 22991.59 |
| 8.379 | 581.00 | 0.00 | 0.00   | 25720.00 | 9.67  | 0.00  | 9.82 | 13886.15 | 25311.77 |
| 8.379 | 581.00 | 0.00 | 0.00   | 44356.00 | 14.37 | 0.00  | 9.86 | 15274.79 | 27582.32 |
|       |        |      |        |          |       | 14.57 | 0.86 | 4.62     | 27640.61 |
|       |        |      |        |          |       |       |      |          | 47912.09 |

| STENO | XLRH    | FLTRD | FLIC | FLMIN  | U        | CSEL  | CRWS | LG    | 10KS | VCH  | AREA     | .01K     |
|-------|---------|-------|------|--------|----------|-------|------|-------|------|------|----------|----------|
| 8.578 | 581.00  | 0.00  | 0.00 | -15.00 | 11590.00 | 5.74  | 0.00 | 5.76  | 0.43 | 1.56 | 7510.94  | 17626.55 |
| 8.578 | 581.00  | 0.00  | 0.00 | -15.00 | 17569.00 | 7.60  | 0.00 | 7.65  | 0.49 | 1.91 | 9494.42  | 25036.43 |
| 8.578 | 581.00  | 0.00  | 0.00 | -15.00 | 20142.00 | 8.40  | 0.00 | 8.46  | 0.50 | 2.02 | 10421.48 | 28599.00 |
| 8.578 | 581.00  | 0.00  | 0.00 | -15.00 | 22987.00 | 9.15  | 0.00 | 9.22  | 0.51 | 2.15 | 11336.76 | 32099.05 |
| 8.578 | 581.00  | 0.00  | 0.00 | -15.00 | 25720.00 | 9.83  | 0.00 | 9.91  | 0.53 | 2.26 | 12223.53 | 35466.93 |
| 8.578 | 581.00  | 0.00  | 0.00 | -15.00 | 44356.00 | 14.50 | 0.00 | 14.61 | 0.49 | 2.72 | 20099.46 | 63158.33 |
| 8.777 | 1050.00 | 0.00  | 0.00 | -15.00 | 11590.00 | 5.80  | 0.00 | 5.82  | 0.30 | 1.24 | 9510.78  | 21073.84 |
| 8.777 | 1050.00 | 0.00  | 0.00 | -15.00 | 17569.00 | 7.66  | 0.00 | 7.70  | 0.33 | 1.50 | 12322.92 | 30769.75 |
| 8.777 | 1050.00 | 0.00  | 0.00 | -15.00 | 20142.00 | 8.47  | 0.00 | 8.51  | 0.32 | 1.57 | 13596.57 | 35444.94 |
| 8.777 | 1050.00 | 0.00  | 0.00 | -15.00 | 22987.00 | 9.22  | 0.00 | 9.26  | 0.33 | 1.67 | 14822.21 | 40052.90 |
| 8.777 | 1050.00 | 0.00  | 0.00 | -15.00 | 25720.00 | 9.91  | 0.00 | 9.95  | 0.33 | 1.75 | 15988.13 | 44519.72 |
| 8.777 | 1050.00 | 0.00  | 0.00 | -15.00 | 44356.00 | 14.60 | 0.00 | 14.66 | 0.29 | 2.04 | 30823.29 | 62416.71 |
| 8.976 | 1052.00 | 0.00  | 0.00 | -15.00 | 11471.00 | 5.79  | 0.00 | 5.88  | 0.55 | 2.69 | 7256.22  | 15499.61 |
| 8.976 | 1052.00 | 0.00  | 0.00 | -15.00 | 17161.00 | 7.63  | 0.00 | 7.70  | 0.78 | 3.44 | 10190.52 | 19469.00 |
| 8.976 | 1052.00 | 0.00  | 0.00 | -15.00 | 19678.00 | 8.43  | 0.00 | 8.60  | 0.84 | 3.66 | 11592.08 | 21472.13 |
| 8.976 | 1052.00 | 0.00  | 0.00 | -15.00 | 22492.00 | 9.17  | 0.00 | 9.36  | 0.92 | 3.96 | 12956.30 | 23469.99 |
| 8.976 | 1052.00 | 0.00  | 0.00 | -15.00 | 25210.00 | 9.85  | 0.00 | 10.06 | 0.98 | 4.19 | 14263.74 | 25413.35 |
| 8.976 | 1052.00 | 0.00  | 0.00 | -15.00 | 43888.00 | 14.52 | 0.00 | 14.78 | 1.05 | 5.00 | 27757.23 | 42769.56 |
| 9.101 | 659.00  | 0.00  | 0.00 | -15.00 | 11471.00 | 5.89  | 0.00 | 5.92  | 0.34 | 1.46 | 8007.00  | 19626.75 |
| 9.101 | 659.00  | 0.00  | 0.00 | -15.00 | 17161.00 | 7.78  | 0.00 | 7.83  | 0.39 | 1.78 | 10102.76 | 27391.84 |
| 9.101 | 659.00  | 0.00  | 0.00 | -15.00 | 19678.00 | 8.59  | 0.00 | 8.65  | 0.40 | 1.89 | 11050.19 | 31063.14 |
| 9.101 | 659.00  | 0.00  | 0.00 | -15.00 | 22492.00 | 9.35  | 0.00 | 9.42  | 0.42 | 2.03 | 11979.34 | 34675.41 |
| 9.101 | 659.00  | 0.00  | 0.00 | -15.00 | 25210.00 | 10.05 | 0.00 | 10.12 | 0.44 | 2.14 | 12866.37 | 38130.55 |
| 9.101 | 659.00  | 0.00  | 0.00 | -15.00 | 43888.00 | 14.73 | 0.00 | 14.83 | 0.45 | 2.67 | 20223.75 | 65405.85 |
| 9.360 | 1460.00 | 0.00  | 0.00 | -15.00 | 11471.00 | 5.91  | 0.00 | 5.97  | 0.30 | 2.09 | 9105.11  | 21065.90 |
| 9.360 | 1460.00 | 0.00  | 0.00 | -15.00 | 17161.00 | 7.81  | 0.00 | 7.90  | 0.42 | 2.65 | 11974.82 | 26617.29 |
| 9.360 | 1460.00 | 0.00  | 0.00 | -15.00 | 19678.00 | 8.62  | 0.00 | 8.72  | 0.45 | 2.85 | 13283.35 | 29257.59 |
| 9.360 | 1460.00 | 0.00  | 0.00 | -15.00 | 22492.00 | 9.38  | 0.00 | 9.50  | 0.50 | 3.07 | 14540.10 | 31866.65 |
| 9.360 | 1460.00 | 0.00  | 0.00 | -15.00 | 25210.00 | 10.07 | 0.00 | 10.21 | 0.54 | 3.26 | 15716.63 | 34367.52 |
| 9.360 | 1460.00 | 0.00  | 0.00 | -15.00 | 43888.00 | 14.75 | 0.00 | 14.93 | 0.63 | 4.03 | 28001.15 | 55368.50 |
| 9.580 | 1161.00 | 0.00  | 0.00 | -15.00 | 11423.00 | 5.94  | 0.00 | 6.02  | 0.45 | 2.54 | 8044.30  | 17108.40 |
| 9.580 | 1161.00 | 0.00  | 0.00 | -15.00 | 16998.00 | 7.85  | 0.00 | 7.98  | 0.63 | 3.24 | 10733.11 | 21417.52 |
| 9.580 | 1161.00 | 0.00  | 0.00 | -15.00 | 19492.00 | 8.66  | 0.00 | 8.81  | 0.69 | 3.49 | 11972.47 | 23497.49 |
| 9.580 | 1161.00 | 0.00  | 0.00 | -15.00 | 22294.00 | 9.42  | 0.00 | 9.59  | 0.76 | 3.76 | 13192.04 | 25574.27 |
| 9.580 | 1161.00 | 0.00  | 0.00 | -15.00 | 25008.00 | 10.12 | 0.00 | 10.31 | 0.82 | 4.00 | 14367.82 | 27580.23 |
| 9.580 | 1161.00 | 0.00  | 0.00 | -15.00 | 43704.00 | 14.80 | 0.00 | 15.06 | 0.99 | 5.02 | 24180.13 | 44000.26 |

|       |        |      |        |          |       |      |       |      |          |
|-------|--------|------|--------|----------|-------|------|-------|------|----------|
| 9.673 | 400.00 | 0.00 | -15.00 | 11423.00 | 5.96  | 0.00 | 6.05  | 0.46 | 2.52     |
| 9.673 | 400.00 | 0.00 | -15.00 | 16998.00 | 7.88  | 0.00 | 8.01  | 0.73 | 3.24     |
| 9.673 | 100.00 | 0.00 | -15.00 | 19492.00 | 6.69  | 0.00 | 8.05  | 0.82 | 3.51     |
| 9.673 | 400.00 | 0.00 | -15.00 | 22294.00 | 9.46  | 0.00 | 9.93  | 0.93 | 8924.16  |
| 9.673 | 400.00 | 0.00 | -15.00 | 25008.00 | 10.15 | 0.00 | 10.36 | 1.03 | 23120.21 |
| 9.673 | 400.00 | 0.00 | -15.00 | 43704.00 | 14.86 | 0.00 | 15.11 | 1.09 | 9581.07  |
| 9.673 | 400.00 | 0.00 | -15.00 |          |       |      |       | 4.83 | 24642.96 |
|       |        |      |        |          |       |      |       |      | 22708.66 |
|       |        |      |        |          |       |      |       |      | 41799.50 |

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| SECTION | XLFH  | FLTRD  | ELIC      | ELMIN     | Q      | CSEL     | CRIS  | EG   | 10K*S | VCH  | AREA | *01K              |
|---------|-------|--------|-----------|-----------|--------|----------|-------|------|-------|------|------|-------------------|
| *       | 9.676 | 16.00  | 100000.00 | 100000.00 | -15.00 | 11423.00 | 5.98  | 0.00 | 6.07  | 0.48 | 2.51 | 6643.86 16464.03  |
| *       | 9.676 | 16.00  | 100000.00 | 100000.00 | -15.00 | 16098.00 | 7.90  | 0.00 | 6.03  | 0.72 | 3.24 | 7876.82 19977.51  |
| *       | 9.676 | 16.00  | 100000.00 | 100000.00 | -15.00 | 19492.00 | 8.72  | 0.00 | 6.08  | 0.61 | 3.50 | 8424.57 21611.63  |
| *       | 9.676 | 16.00  | 100000.00 | 100000.00 | -15.00 | 22294.00 | 9.49  | 0.00 | 9.67  | 0.92 | 3.79 | 8950.48 23190.93  |
| *       | 9.676 | 16.00  | 100000.00 | 100000.00 | -15.00 | 25008.00 | 10.16 | 0.00 | 10.39 | 1.02 | 4.05 | 9616.67 24715.68  |
| *       | 9.676 | 16.00  | 100000.00 | 100000.00 | -15.00 | 43704.00 | 14.91 | 0.00 | 15.15 | 1.08 | 4.80 | 23002.01 42071.11 |
| *       | 9.685 | 47.00  | 0.00      | 0.00      | -15.00 | 11423.00 | 6.00  | 0.00 | 6.07  | 0.44 | 2.41 | 7085.89 17191.21  |
| *       | 9.685 | 47.00  | 0.00      | 0.00      | -15.00 | 16098.00 | 7.92  | 0.00 | 6.04  | 0.67 | 3.10 | 8429.49 20835.01  |
| *       | 9.685 | 47.00  | 0.00      | 0.00      | -15.00 | 19492.00 | 8.75  | 0.00 | 8.88  | 0.75 | 3.35 | 9030.37 22566.20  |
| *       | 9.685 | 47.00  | 0.00      | 0.00      | -15.00 | 22294.00 | 9.52  | 0.00 | 9.68  | 0.85 | 3.63 | 9587.15 24222.59  |
| *       | 9.685 | 47.00  | 0.00      | 0.00      | -15.00 | 25008.00 | 10.22 | 0.00 | 10.40 | 0.94 | 3.89 | 10100.35 25792.01 |
| *       | 9.685 | 47.00  | 0.00      | 0.00      | -15.00 | 43704.00 | 15.05 | 0.00 | 15.19 | 3.72 | 3.43 | 14757.00 22671.12 |
| *       | 9.704 | 102.00 | 100000.00 | 100000.00 | -15.00 | 11423.00 | 6.02  | 0.00 | 6.09  | 0.44 | 2.41 | 7103.76 17237.47  |
| *       | 9.704 | 102.00 | 100000.00 | 100000.00 | -15.00 | 16098.00 | 7.94  | 0.00 | 8.06  | 0.66 | 3.10 | 8450.58 20894.76  |
| *       | 9.704 | 102.00 | 100000.00 | 100000.00 | -15.00 | 19492.00 | 8.78  | 0.00 | 8.91  | 0.74 | 3.34 | 9051.97 22629.55  |
| *       | 9.704 | 102.00 | 100000.00 | 100000.00 | -15.00 | 22294.00 | 9.55  | 0.00 | 9.71  | 0.84 | 3.63 | 9609.00 24288.59  |
| *       | 9.704 | 102.00 | 100000.00 | 100000.00 | -15.00 | 25008.00 | 10.25 | 0.00 | 10.43 | 0.94 | 3.88 | 10122.43 25860.44 |
| *       | 9.704 | 102.00 | 100000.00 | 100000.00 | -15.00 | 43704.00 | 15.10 | 0.00 | 15.24 | 3.76 | 3.34 | 14926.93 22551.06 |
| *       | 9.712 | 39.00  | 0.00      | 0.00      | -15.00 | 11423.00 | 6.01  | 0.00 | 6.10  | 0.48 | 2.51 | 6666.45 16545.57  |
| *       | 9.712 | 39.00  | 0.00      | 0.00      | -15.00 | 16098.00 | 7.93  | 0.00 | 8.07  | 0.72 | 3.23 | 7906.48 20064.75  |
| *       | 9.712 | 39.00  | 0.00      | 0.00      | -15.00 | 19492.00 | 8.77  | 0.00 | 8.92  | 0.80 | 3.48 | 8464.11 21731.43  |
| *       | 9.712 | 39.00  | 0.00      | 0.00      | -15.00 | 22294.00 | 9.54  | 0.00 | 9.72  | 0.91 | 3.78 | 8982.85 23325.19  |
| *       | 9.712 | 39.00  | 0.00      | 0.00      | -15.00 | 25008.00 | 10.24 | 0.00 | 10.44 | 1.01 | 4.04 | 9506.73 24826.07  |
| *       | 9.712 | 39.00  | 0.00      | 0.00      | -15.00 | 43704.00 | 15.12 | 0.00 | 15.25 | 1.49 | 3.65 | 23590.84 35764.31 |
| *       | 9.718 | 32.00  | 100000.00 | 100000.00 | -15.00 | 11423.00 | 6.03  | 0.00 | 6.12  | 0.46 | 2.50 | 6676.32 16572.50  |
| *       | 9.718 | 32.00  | 100000.00 | 100000.00 | -15.00 | 16098.00 | 7.95  | 0.00 | 8.09  | 0.72 | 3.22 | 7914.94 20089.68  |
| *       | 9.718 | 32.00  | 100000.00 | 100000.00 | -15.00 | 19492.00 | 8.80  | 0.00 | 8.95  | 0.80 | 3.48 | 8478.74 21775.82  |
| *       | 9.718 | 32.00  | 100000.00 | 100000.00 | -15.00 | 22294.00 | 9.57  | 0.00 | 9.75  | 0.91 | 3.77 | 8996.74 23368.42  |
| *       | 9.718 | 32.00  | 100000.00 | 100000.00 | -15.00 | 25008.00 | 10.27 | 0.00 | 10.47 | 1.01 | 4.03 | 9531.96 24880.57  |
| *       | 9.718 | 32.00  | 100000.00 | 100000.00 | -15.00 | 43704.00 | 15.17 | 0.00 | 15.30 | 1.46 | 3.62 | 23A42.86 36111.96 |
| *       | 9.721 | 14.00  | 0.00      | 0.00      | -15.00 | 11423.00 | 6.04  | 0.00 | 6.12  | 0.60 | 2.37 | 7032.23 14793.61  |
| *       | 9.721 | 14.00  | 0.00      | 0.00      | -15.00 | 16098.00 | 7.97  | 0.00 | 8.09  | 0.90 | 3.06 | 8373.25 17874.76  |
| *       | 9.721 | 14.00  | 0.00      | 0.00      | -15.00 | 19492.00 | 8.82  | 0.00 | 8.96  | 1.01 | 3.31 | 8992.25 19349.75  |
| *       | 9.721 | 14.00  | 0.00      | 0.00      | -15.00 | 22294.00 | 9.59  | 0.00 | 9.75  | 1.15 | 3.59 | 9566.53 20745.23  |
| *       | 9.721 | 14.00  | 0.00      | 0.00      | -15.00 | 25008.00 | 10.29 | 0.00 | 10.46 | 1.28 | 3.85 | 10105.87 22071.14 |
| *       | 9.721 | 14.00  | 0.00      | 0.00      | -15.00 | 43704.00 | 15.10 | 0.00 | 15.37 | 1.59 | 4.80 | 19597.44 34709.09 |



| STN    | VLCN    | FLTRD | FLLC   | FLMIN    | Q        | CNSL  | CRMS  | EG    | 10K*S | VCH      | AREA     | *0K      |
|--------|---------|-------|--------|----------|----------|-------|-------|-------|-------|----------|----------|----------|
| 10.200 | 1900.00 | 0.00  | 0.00   | -15.00   | 11423.00 | 6.22  | 0.00  | 6.28  | 0.54  | 1.99     | 7404.54  | 15497.87 |
| 10.200 | 1900.00 | 0.00  | 0.00   | -15.00   | 16998.00 | 8.22  | 0.00  | 8.30  | 0.67  | 2.44     | 10253.63 | 20697.75 |
| 10.200 | 1900.00 | 0.00  | 0.00   | -15.00   | 19492.00 | 9.16  | 0.00  | 9.19  | 0.70  | 2.58     | 11678.59 | 23326.98 |
| 10.200 | 1900.00 | 0.00  | 0.00   | -15.00   | 22294.00 | 9.90  | 0.00  | 10.01 | 0.74  | 2.75     | 13025.03 | 25916.41 |
| 10.200 | 1900.00 | 0.00  | 0.00   | -15.00   | 25008.00 | 10.64 | 0.00  | 10.75 | 0.77  | 2.89     | 14350.38 | 28441.75 |
| 10.200 | 1900.00 | 0.00  | -15.00 | 43704.00 | 15.54    | 0.00  | 15.67 | 0.76  | 3.39  | 27033.69 | 50034.46 |          |
| 10.490 | 1531.00 | 0.00  | 0.00   | -15.00   | 11423.00 | 6.32  | 0.00  | 6.35  | 0.40  | 1.83     | 10196.12 | 18092.13 |
| 10.490 | 1531.00 | 0.00  | 0.00   | -15.00   | 16998.00 | 8.35  | 0.00  | 8.40  | 0.53  | 2.28     | 12729.56 | 23339.62 |
| 10.490 | 1531.00 | 0.00  | 0.00   | -15.00   | 19492.00 | 9.23  | 0.00  | 9.30  | 0.56  | 2.43     | 13900.79 | 25961.99 |
| 10.490 | 1531.00 | 0.00  | 0.00   | -15.00   | 22294.00 | 10.05 | 0.00  | 10.12 | 0.61  | 2.61     | 15052.76 | 28521.20 |
| 10.490 | 1531.00 | 0.00  | 0.00   | -15.00   | 25008.00 | 10.79 | 0.00  | 10.87 | 0.65  | 2.77     | 16192.24 | 30983.81 |
| 10.490 | 1531.00 | 0.00  | 0.00   | -15.00   | 43704.00 | 15.69 | 0.00  | 15.80 | 0.74  | 3.44     | 26267.50 | 50959.06 |
| 10.670 | 950.00  | 0.00  | 0.00   | -15.00   | 11423.00 | 6.32  | 0.00  | 6.42  | 0.65  | 2.62     | 6340.42  | 14122.67 |
| 10.670 | 950.00  | 0.00  | 0.00   | -15.00   | 16998.00 | 8.35  | 0.00  | 8.51  | 0.92  | 3.34     | 8232.93  | 17722.43 |
| 10.670 | 950.00  | 0.00  | 0.00   | -15.00   | 19492.00 | 9.23  | 0.00  | 9.41  | 1.00  | 3.60     | 9187.38  | 19463.34 |
| 10.670 | 950.00  | 0.00  | 0.00   | -15.00   | 22294.00 | 10.04 | 0.00  | 10.24 | 1.14  | 3.88     | 10170.62 | 21173.04 |
| 10.670 | 950.00  | 0.00  | 0.00   | -15.00   | 25008.00 | 10.76 | 0.00  | 11.01 | 1.20  | 4.13     | 11157.64 | 22831.58 |
| 10.670 | 950.00  | 0.00  | 0.00   | -15.00   | 43704.00 | 15.66 | 0.00  | 15.97 | 1.42  | 5.15     | 20323.16 | 36670.68 |
| 10.890 | 1160.00 | 0.00  | 0.00   | -17.60   | 11423.00 | 6.39  | 0.00  | 6.50  | 0.64  | 2.67     | 5397.16  | 14227.16 |
| 10.890 | 1160.00 | 0.00  | 0.00   | -17.60   | 16998.00 | 8.45  | 0.00  | 8.62  | 0.92  | 3.44     | 7404.15  | 17680.89 |
| 10.890 | 1160.00 | 0.00  | 0.00   | -17.60   | 19492.00 | 9.33  | 0.00  | 9.53  | 1.01  | 3.69     | 8598.61  | 19422.35 |
| 10.890 | 1160.00 | 0.00  | 0.00   | -17.60   | 22294.00 | 10.16 | 0.00  | 10.36 | 1.11  | 3.97     | 9925.96  | 21196.06 |
| 10.890 | 1160.00 | 0.00  | 0.00   | -17.60   | 25008.00 | 10.91 | 0.00  | 11.15 | 1.18  | 4.20     | 11362.37 | 23020.75 |
| 10.890 | 1160.00 | 0.00  | 0.00   | -17.60   | 43704.00 | 15.86 | 0.00  | 16.13 | 1.24  | 4.91     | 24527.14 | 39279.16 |
| 11.240 | 1850.00 | 0.00  | 0.00   | -15.00   | 11423.00 | 6.56  | 0.00  | 6.59  | 0.32  | 1.45     | 8901.85  | 20135.14 |
| 11.240 | 1850.00 | 0.00  | 0.00   | -15.00   | 16998.00 | 8.69  | 0.00  | 8.74  | 0.42  | 1.77     | 11626.60 | 26131.20 |
| 11.240 | 1850.00 | 0.00  | 0.00   | -15.00   | 19492.00 | 9.60  | 0.00  | 9.66  | 0.44  | 1.88     | 12864.21 | 29468.67 |
| 11.240 | 1850.00 | 0.00  | 0.00   | -15.00   | 22294.00 | 10.45 | 0.00  | 10.51 | 0.46  | 2.01     | 14045.73 | 32757.87 |
| 11.240 | 1850.00 | 0.00  | 0.00   | -15.00   | 25008.00 | 11.23 | 0.00  | 11.29 | 0.49  | 2.12     | 15130.23 | 35904.43 |
| 11.240 | 1850.00 | 0.00  | 0.00   | -15.00   | 43704.00 | 16.16 | 0.00  | 16.28 | 0.53  | 2.66     | 23558.20 | 60150.85 |
| 11.460 | 1162.00 | 0.00  | 0.00   | -15.00   | 11423.00 | 6.56  | 0.00  | 6.66  | 0.67  | 2.64     | 5436.88  | 13961.12 |
| 11.460 | 1162.00 | 0.00  | 0.00   | -15.00   | 16998.00 | 8.66  | 0.00  | 8.84  | 0.92  | 3.34     | 7543.27  | 17755.56 |
| 11.460 | 1162.00 | 0.00  | 0.00   | -15.00   | 19492.00 | 9.59  | 0.00  | 9.77  | 0.98  | 3.57     | 8600.45  | 19645.53 |
| 11.460 | 1162.00 | 0.00  | 0.00   | -15.00   | 22294.00 | 10.44 | 0.00  | 10.64 | 1.07  | 3.82     | 9636.15  | 21548.42 |
| 11.460 | 1162.00 | 0.00  | 0.00   | -15.00   | 25008.00 | 11.20 | 0.00  | 11.42 | 1.14  | 4.05     | 10608.48 | 23390.24 |
| 11.460 | 1162.00 | 0.00  | 0.00   | -15.00   | 43704.00 | 16.14 | 0.00  | 16.44 | 1.33  | 5.01     | 17669.59 | 37904.96 |

|        |         |      |        |          |       |      |       |      |      |          |          |
|--------|---------|------|--------|----------|-------|------|-------|------|------|----------|----------|
| 11.720 | 1400.00 | 0.00 | -15.00 | 11423.00 | 6.69  | 0.00 | 6.75  | 0.49 | 2.20 | 8484.33  | 16386.77 |
| 11.720 | 1400.00 | 0.00 | -15.00 | 16998.00 | 8.87  | 0.00 | 8.96  | 0.66 | 2.74 | 11158.57 | 20884.74 |
| 11.720 | 1400.00 | 0.00 | -15.00 | 19492.00 | 9.79  | 0.00 | 9.89  | 0.72 | 2.93 | 12335.89 | 23022.88 |
| 11.720 | 1400.00 | 0.00 | -15.00 | 22294.00 | 10.60 | 0.00 | 10.77 | 0.78 | 3.14 | 13465.80 | 25214.73 |
| 11.720 | 1400.00 | 0.00 | -15.00 | 25008.00 | 11.44 | 0.00 | 11.57 | 0.84 | 3.34 | 14521.12 | 27350.91 |
| 11.720 | 1400.00 | 0.00 | -15.00 | 43704.00 | 16.42 | 0.00 | 16.61 | 0.99 | 4.19 | 23606.53 | 44016.23 |
| 11.720 | 1400.00 | 0.00 | -15.00 | 1400.00  | 16.69 | 0.00 | 16.86 | 0.99 | 4.19 | 23606.53 | 44016.23 |

| St.Cn# | XLRH    | FLTRH | FLLC | FLMIN  | Q        | CwSTL | CRIWS | EG    | 10K*9 | VCH  | AREA     | .01K     |
|--------|---------|-------|------|--------|----------|-------|-------|-------|-------|------|----------|----------|
| 12.146 | 2212.00 | 0.00  | 0.00 | -16.90 | 1423.00  | 6.78  | 0.00  | 6.88  | 0.64  | 2.63 | 5327.27  | 14270.37 |
| 12.146 | 2218.00 | 0.00  | 0.00 | -16.90 | 1698.00  | 8.98  | 0.00  | 9.15  | 0.89  | 3.34 | 7241.01  | 18056.86 |
| 12.146 | 2218.00 | 0.00  | 0.00 | -16.90 | 19492.00 | 9.91  | 0.00  | 10.10 | 0.96  | 3.60 | 8113.57  | 19853.96 |
| 12.146 | 2219.00 | 0.00  | 0.00 | -16.90 | 22294.00 | 10.79 | 0.00  | 11.00 | 1.06  | 3.88 | 8970.36  | 21649.80 |
| 12.146 | 2219.00 | 0.00  | 0.00 | -16.90 | 25008.00 | 11.57 | 0.00  | 11.81 | 1.15  | 4.13 | 9783.45  | 23362.03 |
| 12.146 | 2218.00 | 0.00  | 0.00 | -16.90 | 43704.00 | 16.56 | 0.00  | 16.91 | 1.46  | 5.32 | 15539.68 | 36227.16 |
| 12.606 | 2429.00 | 0.00  | 0.00 | -15.00 | 10118.00 | 6.95  | 0.00  | 7.01  | 0.43  | 2.05 | 6301.01  | 15418.68 |
| 12.606 | 2429.00 | 0.00  | 0.00 | -15.00 | 15475.00 | 9.24  | 0.00  | 9.34  | 0.65  | 2.73 | 7477.81  | 19164.37 |
| 12.606 | 2429.00 | 0.00  | 0.00 | -15.00 | 16017.00 | 10.19 | 0.00  | 10.31 | 0.74  | 3.01 | 8208.27  | 20954.57 |
| 12.606 | 2429.00 | 0.00  | 0.00 | -15.00 | 20906.00 | 11.09 | 0.00  | 11.24 | 0.84  | 3.31 | 9024.89  | 22770.43 |
| 12.606 | 2429.00 | 0.00  | 0.00 | -15.00 | 24021.00 | 11.90 | 0.00  | 12.08 | 0.96  | 3.63 | 9856.43  | 24507.21 |
| 12.606 | 2429.00 | 0.00  | 0.00 | -15.00 | 44108.00 | 16.96 | 0.00  | 17.27 | 1.36  | 4.98 | 16650.10 | 37876.84 |
| 12.966 | 1901.00 | 0.00  | 0.00 | -15.00 | 10118.00 | 7.02  | 0.00  | 7.11  | 0.50  | 2.34 | 4727.39  | 14359.55 |
| 12.966 | 1901.00 | 0.00  | 0.00 | -15.00 | 15475.00 | 9.33  | 0.00  | 9.48  | 0.75  | 3.12 | 5849.90  | 17850.72 |
| 12.966 | 1901.00 | 0.00  | 0.00 | -15.00 | 18017.00 | 10.30 | 0.00  | 10.48 | 0.86  | 3.44 | 6452.04  | 19465.28 |
| 12.966 | 1901.00 | 0.00  | 0.00 | -15.00 | 20906.00 | 11.21 | 0.00  | 11.43 | 0.96  | 3.79 | 7112.90  | 21097.13 |
| 12.966 | 1901.00 | 0.00  | 0.00 | -15.00 | 24021.00 | 12.04 | 0.00  | 12.29 | 1.12  | 4.15 | 7789.31  | 22660.81 |
| 12.966 | 1901.00 | 0.00  | 0.00 | -15.00 | 44108.00 | 17.14 | 0.00  | 17.57 | 1.61  | 5.69 | 13498.72 | 34747.27 |
| 13.310 | 1R48.00 | 0.00  | 0.00 | -16.90 | 10118.00 | 7.12  | 0.00  | 7.20  | 0.52  | 2.31 | 4390.22  | 14019.28 |
| 13.310 | 1R49.00 | 0.00  | 0.00 | -16.90 | 15475.00 | 9.48  | 0.00  | 9.62  | 0.78  | 3.07 | 5575.37  | 17538.16 |
| 13.310 | 1R48.00 | 0.00  | 0.00 | -16.90 | 18017.00 | 10.46 | 0.00  | 10.64 | 0.88  | 3.38 | 6173.20  | 19189.67 |
| 13.310 | 1R48.00 | 0.00  | 0.00 | -16.90 | 20906.00 | 11.40 | 0.00  | 11.61 | 1.00  | 3.72 | 6799.08  | 20854.87 |
| 13.310 | 1R48.00 | 0.00  | 0.00 | -16.90 | 24021.00 | 12.25 | 0.00  | 12.50 | 1.14  | 4.08 | 7422.06  | 22450.92 |
| 13.310 | 1R48.00 | 0.00  | 0.00 | -16.90 | 44108.00 | 17.43 | 0.00  | 17.87 | 1.64  | 5.62 | 13476.12 | 34433.46 |
| 13.310 | 1R49.00 | 0.00  | 0.00 | -14.20 | 10118.00 | 7.19  | 0.00  | 7.28  | 0.61  | 2.44 | 4173.04  | 13001.67 |
| 13.586 | 1426.00 | 0.00  | 0.00 | -14.20 | 15475.00 | 9.59  | 0.00  | 9.75  | 0.89  | 3.24 | 5102.96  | 16405.16 |
| 13.586 | 1426.00 | 0.00  | 0.00 | -14.20 | 18017.00 | 10.58 | 0.00  | 10.78 | 1.01  | 3.56 | 5604.60  | 17961.09 |
| 13.586 | 1426.00 | 0.00  | 0.00 | -14.20 | 20906.00 | 11.53 | 0.00  | 11.77 | 1.15  | 3.92 | 6201.29  | 19536.93 |
| 13.586 | 1426.00 | 0.00  | 0.00 | -14.20 | 24021.00 | 12.40 | 0.00  | 12.69 | 1.30  | 4.30 | 6851.91  | 21064.66 |
| 13.586 | 1426.00 | 0.00  | 0.00 | -14.20 | 44108.00 | 17.64 | 0.00  | 18.14 | 1.84  | 5.91 | 13061.53 | 32500.91 |
| 13.810 | 1214.00 | 0.00  | 0.00 | -13.50 | 10118.00 | 7.26  | 0.00  | 7.36  | 0.65  | 2.53 | 4187.51  | 12522.48 |
| 13.810 | 1214.00 | 0.00  | 0.00 | -13.50 | 15475.00 | 9.69  | 0.00  | 9.86  | 0.92  | 3.30 | 6020.07  | 16110.26 |
| 13.810 | 1214.00 | 0.00  | 0.00 | -13.50 | 18017.00 | 10.71 | 0.00  | 10.90 | 1.01  | 3.59 | 7208.25  | 17909.55 |
| 13.810 | 1214.00 | 0.00  | 0.00 | -13.50 | 20906.00 | 11.69 | 0.00  | 11.91 | 1.11  | 3.98 | 8557.93  | 19820.90 |
| 13.810 | 1214.00 | 0.00  | 0.00 | -13.50 | 24021.00 | 12.59 | 0.00  | 12.84 | 1.22  | 4.18 | 9967.30  | 21765.30 |
| 13.810 | 1214.00 | 0.00  | 0.00 | -13.50 | 44108.00 | 18.01 | 0.00  | 18.34 | 1.40  | 5.21 | 20567.57 | 37217.39 |

|        |         |      |        |          |         |      |       |          |          |
|--------|---------|------|--------|----------|---------|------|-------|----------|----------|
| 14.04b | 1214.00 | 0.00 | -12.75 | 10118.00 | 7.34    | 0.00 | 7.45  | 0.77     | 2.65     |
| 14.04b | 1214.00 | 0.00 | -12.75 | 15475.00 | 9.80    | 0.00 | 9.99  | 1.10     | 3.47     |
| 14.04b | 1214.00 | 0.00 | -12.75 | 16017.00 | 10.82   | 0.00 | 11.05 | 1.22     | 3.81     |
| 14.04b | 1214.00 | 0.00 | -12.75 | 20906.00 | 11.81   | 0.00 | 12.07 | 1.38     | 4.18     |
| 14.04b | 1214.00 | 0.00 | -12.75 | 24021.00 | 12.71   | 0.00 | 13.03 | 1.55     | 4.56     |
| 14.04b | 1214.00 | 0.00 | -12.75 | 44108.00 | 16.09   | 0.00 | 16.62 | 2.05     | 6.13     |
| 14.04b | 1214.00 | 0.00 | -12.75 | 11521.61 | 3827.36 | 0.00 | 3.47  | 4747.01  | 14787.32 |
| 14.04b | 1214.00 | 0.00 | -12.75 | 16288.35 | 5217.29 | 0.00 | 5.81  | 5729.52  | 17826.29 |
| 14.04b | 1214.00 | 0.00 | -12.75 | 19320.35 | 6265.67 | 0.00 | 6.56  | 13548.19 | 30831.73 |

7-FTR-R5 12:53:11

| SEQNO  | XLCN    | FTRD  | FLLC  | FLMIN  | FLM      | CNSTL | CRINS | EG    | 10K*8 | VCH   | AREA     | .01K     |
|--------|---------|-------|-------|--------|----------|-------|-------|-------|-------|-------|----------|----------|
| 14.197 | 800.00  | 0.00  | 0.00  | -12.24 | 10118.00 | 7.42  | 0.00  | 7.51  | 0.69  | 2.50  | 5306.34  | 12202.78 |
| 14.197 | 800.00  | 0.00  | 0.00  | -12.24 | 15475.00 | 9.93  | 0.00  | 10.07 | 0.97  | 3.22  | 6520.66  | 15713.82 |
| 14.197 | 800.00  | 0.00  | 0.00  | -12.24 | 18017.00 | 10.97 | 0.00  | 11.14 | 1.08  | 3.51  | 7059.51  | 17308.68 |
| 14.197 | 800.00  | 0.00  | 0.00  | -12.24 | 20906.00 | 11.98 | 0.00  | 12.18 | 1.22  | 3.83  | 7615.12  | 18930.22 |
| 14.197 | 800.00  | 0.00  | 0.00  | -12.24 | 24021.00 | 12.91 | 0.00  | 13.15 | 1.36  | 4.16  | 8252.01  | 20605.30 |
| 14.197 | 800.00  | 0.00  | 0.00  | -12.24 | 44108.00 | 18.43 | 0.00  | 18.77 | 1.58  | 5.29  | 19675.93 | 35086.35 |
| 14.197 | 800.00  | 0.00  | 0.00  | -12.24 | 44108.00 | 18.43 |       |       |       |       |          |          |
| 14.443 | 1300.00 | 0.00  | 0.00  | -12.50 | 10118.00 | 7.52  | 0.00  | 7.60  | 0.76  | 2.53  | 5333.73  | 11601.88 |
| 14.443 | 1300.00 | 0.00  | 0.00  | -12.50 | 15475.00 | 10.06 | 0.00  | 10.20 | 1.07  | 3.21  | 6802.62  | 14976.89 |
| 14.443 | 1300.00 | 0.00  | 0.00  | -12.50 | 18017.00 | 11.13 | 0.00  | 11.29 | 1.18  | 3.47  | 7599.23  | 16562.33 |
| 14.443 | 1300.00 | 0.00  | 0.00  | -12.50 | 20906.00 | 12.16 | 0.00  | 12.35 | 1.30  | 3.74  | 8642.75  | 18309.28 |
| 14.443 | 1300.00 | 0.00  | 0.00  | -12.50 | 24021.00 | 13.12 | 0.00  | 13.33 | 1.42  | 4.02  | 9699.57  | 20160.89 |
| 14.443 | 1300.00 | 0.00  | 0.00  | -12.50 | 44108.00 | 18.67 | 0.00  | 18.98 | 1.65  | 5.12  | 17902.22 | 34372.98 |
| 14.443 | 1300.00 | 0.00  | 0.00  | -12.50 | 44108.00 | 18.67 |       |       |       |       |          |          |
| 14.633 | 1000.00 | 0.00  | 0.00  | -12.00 | 10118.00 | 7.59  | 0.00  | 7.72  | 1.08  | 2.97  | 3409.67  | 9727.65  |
| 14.633 | 1000.00 | 0.00  | 0.00  | -12.00 | 15475.00 | 10.15 | 0.00  | 10.38 | 1.56  | 3.83  | 4045.32  | 12397.27 |
| 14.633 | 1000.00 | 0.00  | 0.00  | -12.00 | 18017.00 | 11.22 | 0.00  | 11.49 | 1.73  | 4.17  | 4343.47  | 13697.99 |
| 14.633 | 1000.00 | 0.00  | 0.00  | -12.00 | 20906.00 | 12.26 | 0.00  | 12.56 | 1.93  | 4.55  | 4700.76  | 15049.70 |
| 14.633 | 1000.00 | 0.00  | 0.00  | -12.00 | 24021.00 | 13.12 | 0.00  | 13.60 | 2.15  | 4.94  | 5087.71  | 16374.72 |
| 14.633 | 1000.00 | 0.00  | 0.00  | -12.00 | 44108.00 | 18.67 | 0.00  | 19.39 | 2.82  | 6.71  | 8713.09  | 26277.00 |
| 14.633 | 1000.00 | 0.00  | 0.00  | -12.00 | 44108.00 | 18.67 |       |       |       |       |          |          |
| 14.673 | 211.00  | 0.00  | 0.00  | -11.90 | 10118.00 | 7.33  | 0.00  | 8.11  | 8.91  | 7.07  | 1432.03  | 3389.65  |
| 14.673 | 211.00  | 0.00  | 0.00  | -11.90 | 15475.00 | 9.77  | 0.00  | 10.95 | 12.63 | 8.71  | 1775.90  | 4355.13  |
| 14.673 | 211.00  | 0.00  | 0.00  | -11.90 | 18017.00 | 10.78 | 0.00  | 12.13 | 13.59 | 9.31  | 1935.23  | 4887.52  |
| 14.673 | 211.00  | 0.00  | 0.00  | -11.90 | 20906.00 | 11.75 | 0.00  | 13.30 | 14.65 | 9.99  | 2042.53  | 5462.67  |
| 14.673 | 211.00  | 0.00  | 0.00  | -11.90 | 24021.00 | 12.64 | 0.00  | 14.42 | 15.95 | 10.73 | 2239.61  | 6015.30  |
| 14.673 | 211.00  | 0.00  | 0.00  | -11.90 | 44108.00 | 17.69 | 0.00  | 20.74 | 20.60 | 14.00 | 3150.44  | 9716.50  |
| 14.673 | 211.00  | 0.00  | 0.00  | -11.90 | 44108.00 | 17.69 |       |       |       |       |          |          |
| 14.681 | 42.00   | 23.60 | 21.50 | -11.90 | 10118.00 | 7.45  | 0.00  | 8.21  | 8.65  | 6.99  | 1447.53  | 3439.28  |
| 14.681 | 42.00   | 23.60 | 21.50 | -11.90 | 15475.00 | 9.97  | 0.00  | 11.11 | 12.13 | 8.56  | 1806.80  | 4443.57  |
| 14.681 | 42.00   | 23.60 | 21.50 | -11.90 | 18017.00 | 11.02 | 0.00  | 12.31 | 12.86 | 9.13  | 1972.87  | 5023.64  |
| 14.681 | 42.00   | 23.60 | 21.50 | -11.90 | 20906.00 | 12.04 | 0.00  | 13.52 | 13.76 | 9.77  | 2138.86  | 5635.24  |
| 14.681 | 42.00   | 23.60 | 21.50 | -11.90 | 24021.00 | 12.98 | 0.00  | 14.68 | 14.84 | 10.46 | 2297.02  | 6234.73  |
| 14.681 | 42.00   | 23.60 | 21.50 | -11.90 | 44108.00 | 18.36 | 0.00  | 21.17 | 18.46 | 13.46 | 3276.91  | 10266.99 |
| 14.681 | 42.00   | 23.60 | 21.50 | -11.90 | 44108.00 | 18.36 |       |       |       |       |          |          |
| 14.714 | 179.00  | 0.00  | 0.00  | -11.90 | 10118.00 | 7.71  | 0.00  | 8.44  | 17.18 | 6.83  | 1486.65  | 2440.74  |
| 14.714 | 179.00  | 0.00  | 0.00  | -11.90 | 15475.00 | 10.29 | 0.00  | 11.40 | 12.48 | 8.50  | 1961.19  | 3419.61  |
| 14.714 | 179.00  | 0.00  | 0.00  | -11.90 | 18017.00 | 11.35 | 0.00  | 12.62 | 13.40 | 9.12  | 2249.96  | 3694.28  |
| 14.714 | 179.00  | 0.00  | 0.00  | -11.90 | 20906.00 | 12.42 | 0.00  | 13.85 | 14.78 | 9.75  | 2595.31  | 4419.15  |
| 14.714 | 179.00  | 0.00  | 0.00  | -11.90 | 24021.00 | 13.46 | 0.00  | 15.04 | 16.02 | 10.35 | 2970.02  | 4980.40  |
| 14.714 | 179.00  | 0.00  | 0.00  | -11.90 | 44108.00 | 20.76 | 0.00  | 21.95 | 14.22 | 10.21 | 9622.71  | 11698.35 |
| 14.714 | 179.00  | 0.00  | 0.00  | -11.90 | 44108.00 | 20.76 |       |       |       |       |          |          |

|        |         |      |      |       |          |       |      |       |       |      |          |          |
|--------|---------|------|------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 15.135 | 2218.00 | 0.00 | 0.00 | -6.90 | 10118.00 | 11.51 | 0.00 | 12.27 | 18.66 | 7.55 | 2046.09  | 2341.13  |
| 15.135 | 2218.00 | 0.00 | 0.00 | -6.90 | 15475.00 | 14.59 | 0.00 | 15.45 | 18.57 | 8.50 | 3252.43  | 3591.29  |
| 15.135 | 2218.00 | 0.00 | 0.00 | -6.90 | 18017.00 | 15.79 | 0.00 | 16.67 | 18.30 | 8.80 | 3901.35  | 4211.86  |
| 15.135 | 2218.00 | 0.00 | 0.00 | -6.90 | 20906.00 | 17.00 | 0.00 | 17.86 | 17.95 | 9.07 | 4661.26  | 4934.63  |
| 15.135 | 2218.00 | 0.00 | 0.00 | -6.90 | 24021.00 | 18.16 | 0.00 | 19.04 | 17.53 | 9.29 | 5547.11  | 5736.51  |
| 15.135 | 2218.00 | 0.00 | 0.00 | -6.90 | 44108.00 | 23.69 | 0.00 | 24.37 | 13.98 | 9.63 | 13998.09 | 11795.08 |

| SECIN  | YLRH    | FLTRD | FLIC | FLMIN | U        | CSEL  | CRWS | EG    | 10K*8 | VCH  | AREA     | .01K     |
|--------|---------|-------|------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 15.505 | 1954.00 | 0.00  | 0.00 | -6.30 | 8494.00  | 12.91 | 0.00 | 13.02 | 1.99  | 2.71 | 4286.41  | 6028.05  |
| 15.505 | 1954.00 | 0.00  | 0.00 | -6.30 | 12696.00 | 16.11 | 0.00 | 16.24 | 2.16  | 3.16 | 6058.49  | 8637.47  |
| 15.505 | 1954.00 | 0.00  | 0.00 | -6.30 | 15932.00 | 17.29 | 0.00 | 17.42 | 2.03  | 3.20 | 6808.93  | 9773.34  |
| 15.505 | 1954.00 | 0.00  | 0.00 | -6.30 | 15297.00 | 18.47 | 0.00 | 18.60 | 1.92  | 3.23 | 7872.49  | 11025.67 |
| 15.505 | 1954.00 | 0.00  | 0.00 | -6.30 | 16762.00 | 19.59 | 0.00 | 19.72 | 1.84  | 3.26 | 8893.13  | 12343.26 |
| 15.505 | 1954.00 | 0.00  | 0.00 | -6.30 | 26469.00 | 24.81 | 0.00 | 24.93 | 1.61  | 3.48 | 18251.14 | 20689.86 |
| 15.600 | 533.00  | 0.00  | 0.00 | -6.30 | 8494.00  | 12.96 | 0.00 | 13.08 | 0.77  | 2.82 | 4310.85  | 9691.10  |
| 15.600 | 533.00  | 0.00  | 0.00 | -6.30 | 12696.00 | 16.16 | 0.00 | 16.31 | 0.88  | 3.38 | 6087.61  | 13534.25 |
| 15.600 | 533.00  | 0.00  | 0.00 | -6.30 | 13932.00 | 17.33 | 0.00 | 17.49 | 0.84  | 3.44 | 6920.00  | 15160.33 |
| 15.600 | 533.00  | 0.00  | 0.00 | -6.30 | 15297.00 | 18.51 | 0.00 | 18.67 | 0.82  | 3.51 | 7903.23  | 16925.17 |
| 15.600 | 533.00  | 0.00  | 0.00 | -6.30 | 16762.00 | 19.62 | 0.00 | 19.79 | 0.80  | 3.58 | 8921.64  | 18753.23 |
| 15.600 | 533.00  | 0.00  | 0.00 | -6.30 | 26469.00 | 24.82 | 0.00 | 25.00 | 0.78  | 4.03 | 18300.51 | 30039.75 |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 8494.00  | 13.35 | 0.00 | 13.97 | 22.13 | 6.31 | 1346.43  | 1805.75  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 12696.00 | 16.49 | 0.00 | 17.28 | 22.33 | 7.10 | 1789.28  | 2686.95  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 13932.00 | 17.63 | 0.00 | 18.41 | 20.83 | 7.10 | 1961.41  | 3052.29  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 15297.00 | 18.76 | 0.00 | 19.56 | 19.67 | 7.15 | 2140.50  | 3449.44  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 16762.00 | 19.83 | 0.00 | 20.65 | 18.28 | 7.25 | 2311.90  | 3920.21  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 26469.00 | 24.95 | 0.00 | 25.46 | 9.72  | 6.47 | 9526.19  | 8489.75  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 8494.00  | 13.46 | 0.00 | 14.07 | 21.44 | 6.24 | 1361.52  | 1634.27  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 12696.00 | 16.63 | 0.00 | 17.39 | 21.64 | 7.02 | 1809.61  | 2729.48  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 13932.00 | 17.76 | 0.00 | 18.53 | 20.25 | 7.03 | 1981.49  | 3095.66  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 15297.00 | 19.32 | 0.00 | 20.05 | 17.18 | 6.86 | 2226.96  | 3690.27  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 16762.00 | 20.51 | 0.00 | 21.26 | 15.71 | 6.93 | 2418.88  | 4229.09  |
| 15.712 | 560.00  | 0.00  | 0.00 | -1.10 | 26469.00 | 24.96 | 0.00 | 25.46 | 9.71  | 6.47 | 9530.50  | 8492.76  |
| 15.768 | 204.00  | 0.00  | 0.00 | -5.40 | 8494.00  | 14.11 | 0.00 | 14.50 | 10.37 | 5.70 | 2670.87  | 2637.69  |
| 15.768 | 204.00  | 0.00  | 0.00 | -5.40 | 12696.00 | 17.49 | 0.00 | 17.83 | 8.53  | 5.88 | 4530.77  | 4346.45  |
| 15.768 | 204.00  | 0.00  | 0.00 | -5.40 | 13932.00 | 18.63 | 0.00 | 18.94 | 7.44  | 5.71 | 5374.13  | 5108.56  |
| 15.768 | 204.00  | 0.00  | 0.00 | -5.40 | 15297.00 | 20.16 | 0.00 | 20.42 | 5.92  | 5.34 | 6612.25  | 6289.56  |
| 15.768 | 204.00  | 0.00  | 0.00 | -5.40 | 16762.00 | 21.39 | 0.00 | 21.61 | 5.17  | 5.18 | 7674.78  | 7375.10  |
| 15.768 | 204.00  | 0.00  | 0.00 | -5.40 | 26469.00 | 25.51 | 0.00 | 25.69 | 4.35  | 5.30 | 13867.67 | 12685.50 |
| 15.834 | 350.00  | 0.00  | 0.00 | -5.40 | 8494.00  | 14.63 | 0.00 | 14.78 | 4.57  | 3.87 | 3527.49  | 3974.69  |
| 15.834 | 350.00  | 0.00  | 0.00 | -5.40 | 12696.00 | 17.93 | 0.00 | 18.07 | 3.72  | 3.94 | 5648.23  | 6583.09  |
| 15.834 | 350.00  | 0.00  | 0.00 | -5.40 | 13932.00 | 19.01 | 0.00 | 19.14 | 3.31  | 3.86 | 6517.36  | 7653.49  |
| 15.834 | 350.00  | 0.00  | 0.00 | -5.40 | 15297.00 | 20.46 | 0.00 | 20.58 | 2.73  | 3.66 | 7763.38  | 9258.34  |
| 15.834 | 350.00  | 0.00  | 0.00 | -5.40 | 16762.00 | 21.64 | 0.00 | 21.75 | 2.45  | 3.54 | 8814.19  | 10716.62 |
| 15.834 | 350.00  | 0.00  | 0.00 | -5.40 | 26469.00 | 25.70 | 0.00 | 25.80 | 2.25  | 3.83 | 15168.00 | 17631.77 |

|        |        |      |       |          |       |      |       |      |      |          |          |
|--------|--------|------|-------|----------|-------|------|-------|------|------|----------|----------|
| 15.872 | 200.00 | 0.00 | -2.20 | 8494.00  | 14.72 | 0.00 | 14.92 | 6.81 | 4.35 | 2880.07  | 3255.31  |
| 15.872 | 200.00 | 0.00 | -2.20 | 12696.00 | 17.99 | 0.00 | 18.18 | 5.39 | 4.45 | 4406.12  | 5470.45  |
| 15.872 | 200.00 | 0.00 | -2.20 | 13932.00 | 19.00 | 0.00 | 19.25 | 4.83 | 4.39 | 4936.82  | 6338.38  |
| 15.872 | 200.00 | 0.00 | -2.20 | 15297.00 | 20.50 | 0.00 | 20.67 | 4.05 | 4.22 | 5721.25  | 7605.50  |
| 15.872 | 200.00 | 0.00 | -2.20 | 16762.00 | 21.68 | 0.00 | 21.83 | 3.61 | 4.15 | 6818.22  | 6820.10  |
| 15.872 | 200.00 | 0.00 | -2.20 | 26469.00 | 25.76 | 0.00 | 25.85 | 2.63 | 3.98 | 15936.72 | 16334.56 |

| SECTION | XLMIN   | FLTRD | FLLC | FLMIN | Q        | CWSEL | CRWS | EG    | 10K*S | VCH  | AREA     | *01K     |
|---------|---------|-------|------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 15.900  | 150.00  | 0.00  | 0.00 | -2.20 | 8494.00  | 14.86 | 0.00 | 15.05 | 6.51  | 4.28 | 2934.91  | 3329.14  |
| 15.900  | 150.00  | 0.00  | 0.00 | -2.20 | 12696.00 | 18.11 | 0.00 | 18.30 | 5.24  | 4.41 | 4450.68  | 5545.97  |
| 15.900  | 150.00  | 0.00  | 0.00 | -2.20 | 13932.00 | 19.18 | 0.00 | 19.36 | 4.73  | 4.36 | 4976.13  | 6408.01  |
| 15.900  | 150.00  | 0.00  | 0.00 | -2.20 | 15297.00 | 20.59 | 0.00 | 20.76 | 3.99  | 4.21 | 5709.32  | 7657.26  |
| 15.900  | 150.00  | 0.00  | 0.00 | -2.20 | 16762.00 | 21.76 | 0.00 | 21.92 | 3.64  | 4.17 | 6367.55  | 8782.09  |
| 15.900  | 150.00  | 0.00  | 0.00 | -2.20 | 26469.00 | 25.83 | 0.00 | 25.94 | 2.88  | 4.17 | 14830.83 | 15610.33 |
| 15.900  | 150.00  | 0.00  | 0.00 | -2.20 | 26469.00 | 25.83 | 0.00 | 25.94 | 2.88  | 4.17 | 14830.83 | 15610.33 |
| 16.203  | 1600.00 | 0.00  | 0.00 | -2.20 | 6494.00  | 15.79 | 0.00 | 16.17 | 10.72 | 5.74 | 2596.13  | 2594.21  |
| 16.203  | 1600.00 | 0.00  | 0.00 | -2.20 | 12696.00 | 18.83 | 0.00 | 19.23 | 10.07 | 6.28 | 3748.76  | 4001.75  |
| 16.203  | 1600.00 | 0.00  | 0.00 | -2.20 | 13932.00 | 19.81 | 0.00 | 20.21 | 9.46  | 6.30 | 4143.15  | 4530.17  |
| 16.203  | 1600.00 | 0.00  | 0.00 | -2.20 | 15297.00 | 21.12 | 0.00 | 21.48 | 8.30  | 6.17 | 4914.02  | 5310.83  |
| 16.203  | 1600.00 | 0.00  | 0.00 | -2.20 | 16762.00 | 22.23 | 0.00 | 22.56 | 7.44  | 6.05 | 6214.42  | 6145.63  |
| 16.203  | 1600.00 | 0.00  | 0.00 | -2.20 | 26469.00 | 26.16 | 0.00 | 26.34 | 4.84  | 5.46 | 15554.25 | 12028.97 |
| 16.203  | 1600.00 | 0.00  | 0.00 | -3.70 | 8494.00  | 16.47 | 0.00 | 16.50 | 0.82  | 1.80 | 7999.30  | 9393.67  |
| 16.623  | 2218.00 | 0.00  | 0.00 | -3.70 | 12696.00 | 19.53 | 0.00 | 19.56 | 0.82  | 2.00 | 10877.18 | 14043.56 |
| 16.623  | 2218.00 | 0.00  | 0.00 | -3.70 | 13932.00 | 20.49 | 0.00 | 20.52 | 0.78  | 2.02 | 11985.59 | 15746.98 |
| 16.623  | 2218.00 | 0.00  | 0.00 | -3.70 | 15297.00 | 21.73 | 0.00 | 21.76 | 0.71  | 1.99 | 13546.79 | 18153.68 |
| 16.623  | 2218.00 | 0.00  | 0.00 | -3.70 | 16762.00 | 22.79 | 0.00 | 22.82 | 0.68  | 2.00 | 15019.67 | 20398.61 |
| 16.623  | 2218.00 | 0.00  | 0.00 | -3.70 | 26469.00 | 26.56 | 0.00 | 26.59 | 0.71  | 2.36 | 21733.72 | 30139.76 |
| 16.623  | 2218.00 | 0.00  | 0.00 | -2.60 | 8494.00  | 16.68 | 0.00 | 17.18 | 15.36 | 6.94 | 2378.37  | 2167.07  |
| 16.623  | 2218.00 | 0.00  | 0.00 | -2.60 | 12696.00 | 19.68 | 0.00 | 20.23 | 14.79 | 7.65 | 3367.23  | 3301.44  |
| 16.623  | 2218.00 | 0.00  | 0.00 | -2.60 | 13932.00 | 20.63 | 0.00 | 21.15 | 13.63 | 7.59 | 4226.14  | 3773.59  |
| 16.623  | 2218.00 | 0.00  | 0.00 | -2.60 | 15297.00 | 22.23 | 0.00 | 22.57 | 9.31  | 6.61 | 6689.49  | 5012.52  |
| 16.623  | 2218.00 | 0.00  | 0.00 | -2.60 | 16762.00 | 23.21 | 0.00 | 23.48 | 7.75  | 6.22 | 8316.48  | 6020.25  |
| 16.623  | 2218.00 | 0.00  | 0.00 | -2.60 | 26469.00 | 26.85 | 0.00 | 27.00 | 5.04  | 5.54 | 17078.53 | 11789.79 |
| 16.973  | 1848.00 | 0.00  | 0.00 | -3.20 | 8494.00  | 19.07 | 0.00 | 19.25 | 4.34  | 4.20 | 3559.23  | 4075.96  |
| 16.973  | 1848.00 | 0.00  | 0.00 | -3.20 | 12696.00 | 22.23 | 0.00 | 22.40 | 3.89  | 4.41 | 5781.84  | 6436.18  |
| 16.973  | 1848.00 | 0.00  | 0.00 | -3.20 | 13932.00 | 23.08 | 0.00 | 23.23 | 3.60  | 4.36 | 6770.55  | 7339.92  |
| 16.973  | 1848.00 | 0.00  | 0.00 | -3.20 | 15297.00 | 24.23 | 0.00 | 24.36 | 3.01  | 4.12 | 8409.45  | 8612.38  |
| 16.973  | 1848.00 | 0.00  | 0.00 | -3.20 | 16762.00 | 25.05 | 0.00 | 25.16 | 2.78  | 4.04 | 9802.74  | 10061.67 |
| 16.973  | 1848.00 | 0.00  | 0.00 | -3.20 | 26469.00 | 28.41 | 0.00 | 28.49 | 2.32  | 4.03 | 17220.74 | 17367.42 |
| 16.973  | 1848.00 | 0.00  | 0.00 | -3.20 | 8494.00  | 19.21 | 0.00 | 19.33 | 2.54  | 3.34 | 3939.12  | 5334.06  |
| 17.210  | 1250.00 | 0.00  | 0.00 | -3.20 | 12696.00 | 22.35 | 0.00 | 22.47 | 2.54  | 3.74 | 6225.30  | 7960.58  |
| 17.210  | 1250.00 | 0.00  | 0.00 | -3.20 | 13932.00 | 23.18 | 0.00 | 23.30 | 2.46  | 3.73 | 7221.14  | 8877.08  |
| 17.210  | 1250.00 | 0.00  | 0.00 | -3.20 | 15297.00 | 24.32 | 0.00 | 24.42 | 2.20  | 3.64 | 8852.46  | 10306.21 |
| 17.210  | 1250.00 | 0.00  | 0.00 | -3.20 | 16762.00 | 25.12 | 0.00 | 25.22 | 2.13  | 3.65 | 10250.63 | 11484.98 |
| 17.210  | 1250.00 | 0.00  | 0.00 | -3.20 | 26469.00 | 28.46 | 0.00 | 28.54 | 2.16  | 3.99 | 17670.75 | 16004.27 |

|        |        |      |       |          |       |      |       |      |      |          |          |
|--------|--------|------|-------|----------|-------|------|-------|------|------|----------|----------|
| 17.280 | 150.00 | 0.00 | -3.20 | 8494.00  | 19.25 | 0.00 | 19.36 | 2.52 | 3.34 | 3950.53  | 5347.88  |
| 17.280 | 150.00 | 0.00 | -3.20 | 12696.00 | 22.38 | 0.00 | 22.50 | 2.54 | 3.69 | 6257.33  | 7972.53  |
| 17.280 | 150.00 | 0.00 | -3.20 | 13932.00 | 23.21 | 0.00 | 23.33 | 2.46 | 3.73 | 7258.06  | 8886.31  |
| 17.280 | 150.00 | 0.00 | -3.20 | 15297.00 | 24.34 | 0.00 | 24.44 | 2.20 | 3.64 | 8892.21  | 10308.78 |
| 17.280 | 150.00 | 0.00 | -3.20 | 16762.00 | 25.15 | 0.00 | 25.24 | 2.13 | 3.65 | 10294.82 | 11483.79 |
| 17.280 | 150.00 | 0.00 | -3.20 | 26169.00 | 26.48 | 0.00 | 26.57 | 2.16 | 4.00 | 17732.26 | 17990.81 |

| SLRun  | XLCU   | ELTRD | FLIC | ELMIN | U        | CSEL  | CKINS | 10K*S | VCH  | AREA | .01K     |
|--------|--------|-------|------|-------|----------|-------|-------|-------|------|------|----------|
| 17.343 | 250.00 | 0.00  | 0.00 | -3.20 | 8494.00  | 19.34 | 0.00  | 19.41 | 1.72 | 2.67 | 4578.78  |
| 17.343 | 250.00 | 0.00  | 0.00 | -3.20 | 12696.00 | 22.47 | 0.00  | 22.55 | 1.68 | 2.92 | 6938.59  |
| 17.343 | 250.00 | 0.00  | 0.00 | -3.20 | 13932.00 | 23.30 | 0.00  | 23.38 | 1.62 | 2.94 | 7952.94  |
| 17.343 | 250.00 | 0.00  | 0.00 | -3.20 | 15297.00 | 24.42 | 0.00  | 24.48 | 1.44 | 2.86 | 9596.52  |
| 17.343 | 250.00 | 0.00  | 0.00 | -3.20 | 16762.00 | 25.22 | 0.00  | 25.28 | 1.36 | 2.86 | 11011.43 |
| 17.343 | 250.00 | 0.00  | 0.00 | -3.20 | 26469.00 | 26.55 | 0.00  | 26.60 | 1.36 | 3.09 | 18501.32 |
| 17.381 | 250.00 | 0.00  | 0.00 | -3.20 | 8494.00  | 19.35 | 0.00  | 19.46 | 2.46 | 3.31 | 3999.35  |
| 17.381 | 250.00 | 0.00  | 0.00 | -3.20 | 12696.00 | 22.48 | 0.00  | 22.60 | 2.47 | 3.60 | 6364.63  |
| 17.381 | 250.00 | 0.00  | 0.00 | -3.20 | 13932.00 | 23.31 | 0.00  | 23.42 | 2.40 | 3.69 | 7380.18  |
| 17.381 | 250.00 | 0.00  | 0.00 | -3.20 | 15297.00 | 24.43 | 0.00  | 24.53 | 2.15 | 3.61 | 9024.50  |
| 17.381 | 250.00 | 0.00  | 0.00 | -3.20 | 16762.00 | 25.23 | 0.00  | 25.32 | 2.09 | 3.62 | 10440.83 |
| 17.381 | 250.00 | 0.00  | 0.00 | -3.20 | 26469.00 | 26.56 | 0.00  | 26.64 | 2.12 | 3.96 | 17936.31 |
| 17.398 | 90.00  | 0.00  | 0.00 | -4.RU | 8494.00  | 19.31 | 0.00  | 19.53 | 4.76 | 4.53 | 3489.43  |
| 17.398 | 90.00  | 0.00  | 0.00 | -4.RU | 12696.00 | 22.42 | 0.00  | 22.67 | 5.17 | 5.18 | 5674.56  |
| 17.398 | 90.00  | 0.00  | 0.00 | -4.RU | 13932.00 | 23.26 | 0.00  | 23.49 | 4.92 | 5.17 | 6845.22  |
| 17.398 | 90.00  | 0.00  | 0.00 | -4.RU | 15297.00 | 24.39 | 0.00  | 24.58 | 4.23 | 4.94 | 8761.69  |
| 17.398 | 90.00  | 0.00  | 0.00 | -4.RU | 16762.00 | 25.19 | 0.00  | 25.37 | 3.94 | 4.86 | 10379.67 |
| 17.398 | 90.00  | 0.00  | 0.00 | -4.RU | 26469.00 | 26.55 | 0.00  | 26.67 | 3.70 | 4.81 | 19628.05 |
| 17.426 | 150.00 | 0.00  | 0.00 | -4.RU | 8494.00  | 19.47 | 0.00  | 19.57 | 2.09 | 3.09 | 3987.65  |
| 17.426 | 150.00 | 0.00  | 0.00 | -4.RU | 12696.00 | 22.63 | 0.00  | 22.72 | 2.14 | 3.42 | 6409.13  |
| 17.426 | 150.00 | 0.00  | 0.00 | -4.RU | 13932.00 | 23.45 | 0.00  | 23.54 | 2.03 | 3.41 | 7615.58  |
| 17.426 | 150.00 | 0.00  | 0.00 | -4.RU | 15297.00 | 24.55 | 0.00  | 24.62 | 1.76 | 3.27 | 9537.48  |
| 17.426 | 150.00 | 0.00  | 0.00 | -4.RU | 16762.00 | 25.34 | 0.00  | 25.40 | 1.66 | 3.23 | 11161.11 |
| 17.426 | 150.00 | 0.00  | 0.00 | -4.RU | 26469.00 | 26.65 | 0.00  | 26.70 | 1.45 | 3.27 | 20473.19 |
| 17.445 | 100.00 | 0.00  | 0.00 | -4.RU | 8494.00  | 19.48 | 0.00  | 19.59 | 2.29 | 3.24 | 3955.15  |
| 17.445 | 100.00 | 0.00  | 0.00 | -4.RU | 12696.00 | 22.64 | 0.00  | 22.74 | 2.25 | 3.52 | 6423.64  |
| 17.445 | 100.00 | 0.00  | 0.00 | -4.RU | 13932.00 | 23.47 | 0.00  | 23.56 | 2.12 | 3.49 | 7634.22  |
| 17.445 | 100.00 | 0.00  | 0.00 | -4.RU | 15297.00 | 24.56 | 0.00  | 24.63 | 1.82 | 3.33 | 9556.14  |
| 17.445 | 100.00 | 0.00  | 0.00 | -4.RU | 16762.00 | 25.35 | 0.00  | 25.42 | 1.70 | 3.26 | 11164.23 |
| 17.445 | 100.00 | 0.00  | 0.00 | -4.RU | 26469.00 | 26.66 | 0.00  | 26.71 | 1.46 | 3.28 | 20534.26 |
| 17.473 | 150.00 | 0.00  | 0.00 | -4.RU | 8494.00  | 19.51 | 0.00  | 19.61 | 2.07 | 3.08 | 3999.33  |
| 17.473 | 150.00 | 0.00  | 0.00 | -4.RU | 12696.00 | 22.67 | 0.00  | 22.76 | 2.12 | 3.41 | 6452.62  |
| 17.473 | 150.00 | 0.00  | 0.00 | -4.RU | 13932.00 | 23.49 | 0.00  | 23.57 | 2.01 | 3.40 | 7664.51  |
| 17.473 | 150.00 | 0.00  | 0.00 | -4.RU | 15297.00 | 24.58 | 0.00  | 24.65 | 1.75 | 3.26 | 9589.38  |
| 17.473 | 150.00 | 0.00  | 0.00 | -4.RU | 16762.00 | 25.37 | 0.00  | 25.45 | 1.64 | 3.22 | 11216.66 |
| 17.473 | 150.00 | 0.00  | 0.00 | -4.RU | 26469.00 | 26.67 | 0.00  | 26.72 | 1.44 | 3.26 | 20560.24 |

|      |        |          |      |       |      |       |      |      |
|------|--------|----------|------|-------|------|-------|------|------|
| 0.00 | 17.511 | 200.00   | 0.00 | 19.49 | 0.00 | 19.70 | 1.58 | 4.47 |
| 0.00 | -4.80  | 8494.00  | 0.00 | 19.49 | 0.00 | 19.70 | 1.58 | 4.47 |
| 0.00 | -4.80  | 12696.00 | 0.00 | 22.62 | 0.00 | 22.86 | 4.90 | 5.07 |
| 0.00 | -4.80  | 13932.00 | 0.00 | 23.44 | 0.00 | 23.66 | 4.66 | 5.06 |
| 0.00 | -4.80  | 13932.00 | 0.00 | 24.54 | 0.00 | 24.75 | 4.03 | 4.84 |
| 0.00 | -4.80  | 15297.00 | 0.00 | 24.54 | 0.00 | 24.75 | 4.03 | 4.84 |
| 0.00 | -4.80  | 10762.00 | 0.00 | 25.34 | 0.00 | 25.50 | 3.77 | 4.77 |
| 0.00 | -4.80  | 26469.00 | 0.00 | 28.65 | 0.00 | 28.77 | 3.16 | 4.74 |
| 0.00 | 17.511 | 200.00   | 0.00 |       |      |       |      |      |

| STRN#  | YLC#H  | FLTKD | FLLC | FLMIN | W        | CSEL  | CRIMS | EG    | 10K*S | VCH  | AREA     | .01K     |
|--------|--------|-------|------|-------|----------|-------|-------|-------|-------|------|----------|----------|
| 17.534 | 120.00 | 0.00  | 0.00 | -4.80 | 8494.00  | 19.60 | 0.00  | 19.80 | 4.47  | 4.43 | 3576.45  | 4016.98  |
| 17.534 | 120.00 | 0.00  | 0.00 | -4.80 | 12696.00 | 22.77 | 0.00  | 23.00 | 4.70  | 4.99 | 6138.01  | 5858.32  |
| 17.534 | 120.00 | 0.00  | 0.00 | -4.80 | 13952.00 | 23.61 | 0.00  | 23.82 | 4.43  | 4.96 | 7412.91  | 6616.65  |
| 17.534 | 120.00 | 0.00  | 0.00 | -4.80 | 15297.00 | 24.71 | 0.00  | 24.88 | 3.84  | 4.74 | 9361.32  | 7808.99  |
| 17.534 | 120.00 | 0.00  | 0.00 | -4.80 | 16762.00 | 25.51 | 0.00  | 25.66 | 3.56  | 4.66 | 11062.36 | 8878.77  |
| 17.534 | 120.00 | 0.00  | 0.00 | -4.80 | 26469.00 | 28.85 | 0.00  | 28.96 | 4.61  | 4.61 | 20784.28 | 15320.48 |
| 17.548 | 75.00  | 0.00  | 0.00 | -4.80 | 6883.00  | 19.71 | 0.00  | 19.84 | 2.86  | 3.56 | 3611.55  | 4067.70  |
| 17.548 | 75.00  | 0.00  | 0.00 | -4.80 | 10669.00 | 22.90 | 0.00  | 23.05 | 3.20  | 4.13 | 6311.56  | 5961.44  |
| 17.548 | 75.00  | 0.00  | 0.00 | -4.80 | 11565.00 | 23.73 | 0.00  | 23.87 | 2.96  | 4.06 | 7602.71  | 6730.00  |
| 17.548 | 75.00  | 0.00  | 0.00 | -4.80 | 12464.00 | 24.82 | 0.00  | 24.93 | 2.45  | 3.80 | 9609.53  | 7963.74  |
| 17.548 | 75.00  | 0.00  | 0.00 | -4.80 | 13498.00 | 25.62 | 0.00  | 25.71 | 2.23  | 3.70 | 11309.70 | 9036.20  |
| 17.548 | 75.00  | 0.00  | 0.00 | -4.80 | 20426.00 | 28.95 | 0.00  | 29.01 | 1.72  | 3.51 | 21185.07 | 15575.04 |
| 17.562 | 75.00  | 0.00  | 0.00 | -4.80 | 6883.00  | 19.81 | 0.00  | 19.86 | 1.02  | 2.13 | 4614.72  | 6808.92  |
| 17.562 | 75.00  | 0.00  | 0.00 | -4.80 | 10669.00 | 23.02 | 0.00  | 23.07 | 1.11  | 2.44 | 7485.77  | 10135.88 |
| 17.562 | 75.00  | 0.00  | 0.00 | -4.80 | 11585.00 | 23.85 | 0.00  | 23.89 | 1.04  | 2.41 | 8790.90  | 11367.91 |
| 17.562 | 75.00  | 0.00  | 0.00 | -4.80 | 12464.00 | 24.92 | 0.00  | 24.95 | 0.88  | 2.29 | 10788.95 | 13276.93 |
| 17.562 | 75.00  | 0.00  | 0.00 | -4.80 | 13498.00 | 25.70 | 0.00  | 25.73 | 0.82  | 2.25 | 12486.16 | 14910.53 |
| 17.562 | 75.00  | 0.00  | 0.00 | -4.80 | 20426.00 | 29.00 | 0.00  | 29.02 | 0.69  | 2.22 | 22389.33 | 24593.95 |
| 17.581 | 100.00 | 0.00  | 0.00 | -4.80 | 6883.00  | 19.82 | 0.00  | 19.87 | 0.95  | 2.06 | 4988.04  | 7052.87  |
| 17.581 | 100.00 | 0.00  | 0.00 | -4.80 | 10669.00 | 23.04 | 0.00  | 23.08 | 0.99  | 2.31 | 7952.42  | 10724.18 |
| 17.581 | 100.00 | 0.00  | 0.00 | -4.80 | 11585.00 | 23.86 | 0.00  | 23.90 | 0.93  | 2.28 | 9259.44  | 12042.97 |
| 17.581 | 100.00 | 0.00  | 0.00 | -4.80 | 12464.00 | 24.93 | 0.00  | 24.96 | 0.79  | 2.16 | 11257.43 | 14063.20 |
| 17.581 | 100.00 | 0.00  | 0.00 | -4.80 | 13498.00 | 25.71 | 0.00  | 25.73 | 0.73  | 2.12 | 12955.30 | 15779.87 |
| 17.581 | 100.00 | 0.00  | 0.00 | -4.80 | 20426.00 | 29.00 | 0.00  | 29.03 | 0.63  | 2.12 | 22869.24 | 25829.27 |
| 17.591 | 50.00  | 0.00  | 0.00 | -4.70 | 6883.00  | 19.84 | 0.00  | 19.87 | 0.80  | 1.74 | 6995.83  | 7702.24  |
| 17.591 | 50.00  | 0.00  | 0.00 | -4.70 | 10669.00 | 23.06 | 0.00  | 23.08 | 0.75  | 1.87 | 10346.05 | 12296.59 |
| 17.591 | 50.00  | 0.00  | 0.00 | -4.70 | 11585.00 | 23.88 | 0.00  | 23.90 | 0.71  | 1.86 | 11527.09 | 13770.05 |
| 17.591 | 50.00  | 0.00  | 0.00 | -4.70 | 12464.00 | 24.94 | 0.00  | 24.96 | 0.61  | 1.79 | 13244.46 | 15909.23 |
| 17.591 | 50.00  | 0.00  | 0.00 | -4.70 | 13498.00 | 25.72 | 0.00  | 25.74 | 0.59  | 1.76 | 14633.95 | 17641.22 |
| 17.591 | 50.00  | 0.00  | 0.00 | -4.70 | 20426.00 | 29.01 | 0.00  | 29.03 | 0.55  | 1.87 | 24300.16 | 27542.92 |
| 17.614 | 125.00 | 0.00  | 0.00 | -4.70 | 6883.00  | 19.84 | 0.00  | 19.90 | 2.27  | 2.94 | 6200.52  | 4564.30  |
| 17.614 | 125.00 | 0.00  | 0.00 | -4.70 | 10669.00 | 23.06 | 0.00  | 23.11 | 2.04  | 3.04 | 9571.76  | 7471.16  |
| 17.614 | 125.00 | 0.00  | 0.00 | -4.70 | 11585.00 | 23.88 | 0.00  | 23.93 | 1.89  | 3.04 | 10753.15 | 8425.90  |
| 17.614 | 125.00 | 0.00  | 0.00 | -4.70 | 12464.00 | 24.94 | 0.00  | 24.98 | 1.61  | 2.89 | 12469.21 | 9829.03  |
| 17.614 | 125.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 25.72 | 0.00  | 25.76 | 1.51  | 2.86 | 13667.72 | 10990.27 |
| 17.614 | 125.00 | 0.00  | 0.00 | -4.70 | 20426.00 | 29.02 | 0.00  | 29.05 | 1.26  | 2.84 | 23577.02 | 18172.10 |

|        |        |      |       |          |       |      |       |      |      |          |          |
|--------|--------|------|-------|----------|-------|------|-------|------|------|----------|----------|
| 17.096 | 450.00 | 0.00 | -4.70 | 0.883.00 | 19.97 | 0.00 | 20.03 | 2.19 | 2.90 | 6286.84  | 4647.99  |
| 17.096 | 450.00 | 0.00 | -4.70 | 10669.00 | 23.18 | 0.00 | 23.23 | 1.98 | 3.05 | 9713.34  | 7586.12  |
| 17.096 | 450.00 | 0.00 | -4.70 | 11585.00 | 23.99 | 0.00 | 24.04 | 1.84 | 3.01 | 10901.62 | 8545.40  |
| 17.096 | 450.00 | 0.00 | -4.70 | 12464.00 | 25.04 | 0.00 | 25.08 | 1.57 | 2.86 | 12615.41 | 9949.59  |
| 17.096 | 450.00 | 0.00 | -4.70 | 13498.00 | 25.82 | 0.00 | 25.86 | 1.47 | 2.83 | 14019.52 | 11117.46 |
| 17.096 | 450.00 | 0.00 | -4.70 | 20426.00 | 29.11 | 0.00 | 29.14 | 1.23 | 2.80 | 23940.51 | 18434.83 |
| 17.096 | 450.00 | 0.00 | 0.00  | 0.00     | 19.97 | 0.00 | 20.03 | 2.19 | 2.90 | 6286.84  | 4647.99  |
| 17.096 | 450.00 | 0.00 | 0.00  | 0.00     | 23.18 | 0.00 | 23.23 | 1.98 | 3.05 | 9713.34  | 7586.12  |
| 17.096 | 450.00 | 0.00 | 0.00  | 0.00     | 23.99 | 0.00 | 24.04 | 1.84 | 3.01 | 10901.62 | 8545.40  |
| 17.096 | 450.00 | 0.00 | 0.00  | 0.00     | 25.04 | 0.00 | 25.08 | 1.57 | 2.86 | 12615.41 | 9949.59  |
| 17.096 | 450.00 | 0.00 | 0.00  | 0.00     | 25.82 | 0.00 | 25.86 | 1.47 | 2.83 | 14019.52 | 11117.46 |
| 17.096 | 450.00 | 0.00 | 0.00  | 0.00     | 29.11 | 0.00 | 29.14 | 1.23 | 2.80 | 23940.51 | 18434.83 |

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| SERIAL# | XLCRH  | ELTRD | FLUC | FLMIN | U        | CUSTL | CRIMS | EG    | 10K*S | VCH  | AREA     | *01K     |
|---------|--------|-------|------|-------|----------|-------|-------|-------|-------|------|----------|----------|
| 17.770  | 420.00 | 0.00  | 0.00 | -4.70 | 6883.00  | 20.03 | 0.00  | 20.08 | 2.15  | 2.88 | 6335.62  | 4695.73  |
| 17.770  | 420.00 | 0.00  | 0.00 | -4.70 | 10669.00 | 23.23 | 0.00  | 23.28 | 1.94  | 3.03 | 9795.87  | 7653.05  |
| 17.770  | 420.00 | 0.00  | 0.00 | -4.70 | 11585.00 | 24.04 | 0.00  | 24.09 | 1.81  | 2.99 | 10988.57 | 8616.09  |
| 17.770  | 420.00 | 0.00  | 0.00 | -4.70 | 12464.00 | 25.08 | 0.00  | 25.12 | 1.55  | 2.85 | 12701.29 | 10020.50 |
| 17.770  | 420.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 25.85 | 0.00  | 25.89 | 1.45  | 2.82 | 14108.67 | 11192.28 |
| 17.770  | 420.00 | 0.00  | 0.00 | -4.70 | 20426.00 | 29.14 | 0.00  | 29.16 | 1.21  | 2.79 | 24075.63 | 18532.87 |
| 17.813  | 200.00 | 0.00  | 0.00 | -4.70 | 6883.00  | 20.10 | 0.00  | 20.12 | 1.07  | 2.04 | 6847.84  | 6647.07  |
| 17.813  | 200.00 | 0.00  | 0.00 | -4.70 | 10669.00 | 23.29 | 0.00  | 23.31 | 0.91  | 2.08 | 10338.54 | 11171.30 |
| 17.813  | 200.00 | 0.00  | 0.00 | -4.70 | 11585.00 | 24.10 | 0.00  | 24.12 | 0.84  | 2.04 | 11532.53 | 12618.20 |
| 17.813  | 200.00 | 0.00  | 0.00 | -4.70 | 12464.00 | 25.13 | 0.00  | 25.15 | 0.72  | 1.94 | 13240.84 | 14701.43 |
| 17.813  | 200.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 25.90 | 0.00  | 25.92 | 0.68  | 1.92 | 14648.06 | 16424.24 |
| 17.813  | 200.00 | 0.00  | 0.00 | -4.70 | 20426.00 | 29.17 | 0.00  | 29.19 | 0.60  | 1.96 | 24646.86 | 26407.32 |
| 17.842  | 150.00 | 0.00  | 0.00 | -4.70 | 6883.00  | 20.12 | 0.00  | 20.14 | 0.59  | 1.52 | 8068.84  | 8938.19  |
| 17.842  | 150.00 | 0.00  | 0.00 | -4.70 | 10669.00 | 23.31 | 0.00  | 23.33 | 0.55  | 1.62 | 11669.01 | 14341.98 |
| 17.842  | 150.00 | 0.00  | 0.00 | -4.70 | 11585.00 | 24.12 | 0.00  | 24.13 | 0.52  | 1.61 | 12864.65 | 16003.17 |
| 17.842  | 150.00 | 0.00  | 0.00 | -4.70 | 12464.00 | 25.14 | 0.00  | 25.16 | 0.46  | 1.56 | 14570.69 | 18352.66 |
| 17.842  | 150.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 25.91 | 0.00  | 25.93 | 0.44  | 1.56 | 15978.50 | 20277.10 |
| 17.842  | 150.00 | 0.00  | 0.00 | -4.70 | 20426.00 | 29.19 | 0.00  | 29.20 | 0.43  | 1.66 | 26035.40 | 31151.68 |
| 17.860  | 125.00 | 0.00  | 0.00 | -4.70 | 6883.00  | 20.13 | 0.00  | 20.15 | 0.64  | 1.58 | 7520.61  | 8589.10  |
| 17.860  | 125.00 | 0.00  | 0.00 | -4.70 | 10669.00 | 23.32 | 0.00  | 23.34 | 0.62  | 1.71 | 11028.38 | 13563.24 |
| 17.860  | 125.00 | 0.00  | 0.00 | -4.70 | 11585.00 | 24.12 | 0.00  | 24.14 | 0.59  | 1.71 | 12224.48 | 15120.14 |
| 17.860  | 125.00 | 0.00  | 0.00 | -4.70 | 12464.00 | 25.15 | 0.00  | 25.17 | 0.52  | 1.65 | 13930.78 | 17336.54 |
| 17.860  | 125.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 25.92 | 0.00  | 25.93 | 0.50  | 1.65 | 15338.96 | 19161.48 |
| 17.860  | 125.00 | 0.00  | 0.00 | -4.70 | 20426.00 | 29.19 | 0.00  | 29.20 | 0.48  | 1.75 | 25407.16 | 29613.18 |
| 17.913  | 270.00 | 0.00  | 0.00 | -4.70 | 6883.00  | 20.12 | 0.00  | 20.18 | 2.08  | 2.84 | 6416.43  | 4774.61  |
| 17.913  | 270.00 | 0.00  | 0.00 | -4.70 | 10669.00 | 23.31 | 0.00  | 23.36 | 1.89  | 2.99 | 9921.16  | 7754.53  |
| 17.913  | 270.00 | 0.00  | 0.00 | -4.70 | 11585.00 | 24.12 | 0.00  | 24.16 | 1.76  | 2.96 | 11117.62 | 8721.41  |
| 17.913  | 270.00 | 0.00  | 0.00 | -4.70 | 12464.00 | 25.15 | 0.00  | 25.19 | 1.52  | 2.82 | 12824.59 | 10122.41 |
| 17.913  | 270.00 | 0.00  | 0.00 | -4.70 | 13498.00 | 25.92 | 0.00  | 25.95 | 1.43  | 2.80 | 14233.31 | 11297.01 |
| 17.913  | 270.00 | 0.00  | 0.00 | -4.70 | 20426.00 | 29.19 | 0.00  | 29.22 | 1.19  | 2.77 | 24326.48 | 18715.39 |
| 17.992  | 420.00 | 0.00  | 0.00 | -0.90 | 6883.00  | 20.18 | 0.00  | 20.44 | 7.93  | 5.07 | 2532.85  | 2444.13  |
| 17.992  | 420.00 | 0.00  | 0.00 | -0.90 | 10669.00 | 23.35 | 0.00  | 23.62 | 7.60  | 5.60 | 5669.38  | 4499.87  |
| 17.992  | 420.00 | 0.00  | 0.00 | -0.90 | 11585.00 | 24.15 | 0.00  | 24.39 | 6.93  | 5.49 | 5369.73  | 4401.48  |
| 17.992  | 420.00 | 0.00  | 0.00 | -0.90 | 12464.00 | 25.18 | 0.00  | 25.37 | 5.67  | 5.13 | 6715.01  | 5233.12  |
| 17.992  | 420.00 | 0.00  | 0.00 | -0.90 | 13498.00 | 25.94 | 0.00  | 26.12 | 5.11  | 4.99 | 7899.20  | 5969.91  |
|         |        |       |      | -0.90 | 20426.00 | 29.22 | 0.00  |       | 3.64  | 4.63 | 15473.12 | 10700.39 |

|        |        |      |      |       |          |       |      |       |       |      |          |         |
|--------|--------|------|------|-------|----------|-------|------|-------|-------|------|----------|---------|
| 18.140 | 762.00 | 0.00 | 0.00 | -0.90 | 6883.00  | 20.72 | 0.00 | 21.09 | 10.36 | 4.85 | 1418.15  | 2138.48 |
| 18.140 | 762.00 | 0.00 | 0.00 | -0.90 | 10660.00 | 23.83 | 0.00 | 24.33 | 11.78 | 5.69 | 1873.83  | 3109.03 |
| 18.140 | 762.00 | 0.00 | 0.00 | -0.90 | 11585.00 | 24.56 | 0.00 | 25.09 | 11.47 | 5.82 | 1989.99  | 3420.63 |
| 18.140 | 762.00 | 0.00 | 0.00 | -0.90 | 12464.00 | 25.48 | 0.00 | 25.98 | 10.12 | 5.73 | 2665.18  | 3918.10 |
| 18.140 | 762.00 | 0.00 | 0.00 | -0.90 | 13498.00 | 26.19 | 0.00 | 26.66 | 9.17  | 5.65 | 3624.76  | 4457.83 |
| 18.140 | 762.00 | 0.00 | 0.00 | -0.90 | 20426.00 | 29.35 | 0.00 | 29.57 | 4.87  | 4.70 | 11512.36 | 9256.12 |

| SECNO  | XLTH    | ELTHD. | ELIC  | FLMIN | W        | CSEL  | CRMS | EG    | 10K*S | VCH  | AREA     | *01K     |
|--------|---------|--------|-------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 18.146 | 32.00   | 26.00  | 24.00 | -0.90 | 6883.00  | 20.74 | 0.00 | 21.10 | 10.32 | 4.85 | 1420.26  | 2142.75  |
| 18.146 | 32.00   | 26.00  | 24.00 | -0.90 | 10669.00 | 23.93 | 0.00 | 24.43 | 11.50 | 5.64 | 1890.71  | 3146.68  |
| 18.146 | 32.00   | 26.00  | 24.00 | -0.90 | 11585.00 | 24.76 | 0.00 | 25.27 | 10.89 | 5.73 | 2021.49  | 3511.38  |
| 18.146 | 32.00   | 26.00  | 24.00 | -0.90 | 12464.00 | 25.47 | 0.00 | 26.00 | 10.52 | 5.84 | 2134.1b  | 3643.65  |
| 18.146 | 32.00   | 26.00  | 24.00 | -0.90 | 13498.00 | 26.19 | 0.00 | 26.66 | 9.16  | 5.64 | 3626.90  | 4459.04  |
| 18.146 | 32.00   | 26.00  | 24.00 | -0.90 | 20426.00 | 29.35 | 0.00 | 29.57 | 4.87  | 4.70 | 11513.88 | 9257.03  |
| 18.146 | 32.00   | 26.00  | 24.00 | -0.90 | 20426.00 | 29.35 | 0.00 |       |       |      |          |          |
| 18.214 | 354.00  | 0.00   | 0.00  | -0.90 | 6883.00  | 21.22 | 0.00 | 21.42 | 5.95  | 4.58 | 2948.58  | 2821.28  |
| 18.214 | 354.00  | 0.00   | 0.00  | -0.90 | 10669.00 | 24.58 | 0.00 | 24.76 | 5.08  | 4.77 | 5907.46  | 4734.14  |
| 18.214 | 354.00  | 0.00   | 0.00  | -0.90 | 11585.00 | 25.44 | 0.00 | 25.59 | 4.48  | 4.60 | 7104.43  | 5474.49  |
| 18.214 | 354.00  | 0.00   | 0.00  | -0.90 | 12464.00 | 26.16 | 0.00 | 26.32 | 4.01  | 4.45 | 8303.23  | 6226.85  |
| 18.214 | 354.00  | 0.00   | 0.00  | -0.90 | 13498.00 | 26.81 | 0.00 | 26.94 | 3.76  | 4.39 | 9460.06  | 6960.79  |
| 18.214 | 354.00  | 0.00   | 0.00  | -0.90 | 20426.00 | 29.64 | 0.00 | 29.73 | 3.10  | 4.31 | 16988.82 | 11602.63 |
| 18.214 | 354.00  | 0.00   | 0.00  | -0.90 | 20426.00 | 29.35 | 0.00 |       |       |      |          |          |
| 18.454 | 1267.00 | 0.00   | 0.00  | 1.60  | 6883.00  | 21.77 | 0.00 | 21.81 | 1.91  | 2.55 | 5516.21  | 4979.13  |
| 18.454 | 1267.00 | 0.00   | 0.00  | 1.60  | 10669.00 | 25.05 | 0.00 | 25.09 | 1.70  | 2.72 | 8914.81  | 8176.85  |
| 18.454 | 1267.00 | 0.00   | 0.00  | 1.60  | 11585.00 | 25.85 | 0.00 | 25.89 | 1.58  | 2.69 | 10107.53 | 9203.46  |
| 18.454 | 1267.00 | 0.00   | 0.00  | 1.60  | 12464.00 | 26.55 | 0.00 | 26.59 | 1.49  | 2.67 | 11287.73 | 10210.90 |
| 18.454 | 1267.00 | 0.00   | 0.00  | 1.60  | 13498.00 | 27.16 | 0.00 | 27.20 | 1.46  | 2.69 | 12450.14 | 11174.37 |
| 18.454 | 1267.00 | 0.00   | 0.00  | 1.60  | 20426.00 | 29.64 | 0.00 | 29.96 | 1.41  | 2.86 | 20911.60 | 17200.19 |
| 18.454 | 1267.00 | 0.00   | 0.00  | 1.60  | 20426.00 | 29.35 | 0.00 |       |       |      |          |          |
| 18.664 | 1109.00 | 0.00   | 0.00  | 2.00  | 6883.00  | 21.99 | 0.00 | 22.14 | 4.73  | 3.97 | 3421.71  | 3164.45  |
| 18.664 | 1109.00 | 0.00   | 0.00  | 2.00  | 10669.00 | 25.23 | 0.00 | 25.37 | 4.02  | 4.14 | 6790.46  | 5320.49  |
| 18.664 | 1109.00 | 0.00   | 0.00  | 2.00  | 11585.00 | 26.02 | 0.00 | 26.14 | 3.57  | 4.01 | 8364.22  | 6131.81  |
| 18.664 | 1109.00 | 0.00   | 0.00  | 2.00  | 12464.00 | 26.71 | 0.00 | 26.81 | 3.15  | 3.86 | 9984.79  | 7019.19  |
| 18.664 | 1109.00 | 0.00   | 0.00  | 2.00  | 13498.00 | 27.31 | 0.00 | 27.40 | 2.91  | 3.78 | 11535.89 | 7916.02  |
| 18.664 | 1109.00 | 0.00   | 0.00  | 2.00  | 20426.00 | 30.06 | 0.00 | 30.12 | 2.25  | 3.60 | 21200.47 | 13616.10 |
| 18.664 | 1109.00 | 0.00   | 0.00  | 2.00  | 20426.00 | 29.93 | 0.00 |       |       |      |          |          |
| 19.064 | 2112.00 | 0.00   | 0.00  | -3.70 | 6883.00  | 23.20 | 0.00 | 23.44 | 10.26 | 5.31 | 4418.41  | 2149.27  |
| 19.064 | 2112.00 | 0.00   | 0.00  | -3.70 | 10669.00 | 26.03 | 0.00 | 26.09 | 3.71  | 3.71 | 10895.08 | 5163.08  |
| 19.064 | 2112.00 | 0.00   | 0.00  | -3.70 | 11585.00 | 26.69 | 0.00 | 26.74 | 3.43  | 3.38 | 12986.38 | 6256.61  |
| 19.064 | 2112.00 | 0.00   | 0.00  | -3.70 | 12464.00 | 27.26 | 0.00 | 27.32 | 2.86  | 3.13 | 15026.18 | 7371.86  |
| 19.064 | 2112.00 | 0.00   | 0.00  | -3.70 | 13498.00 | 27.82 | 0.00 | 27.85 | 2.51  | 2.98 | 17046.93 | 8520.62  |
| 19.064 | 2112.00 | 0.00   | 0.00  | -3.70 | 20426.00 | 30.40 | 0.00 | 30.42 | 1.61  | 2.54 | 28858.14 | 16096.32 |
| 19.064 | 2112.00 | 0.00   | 0.00  |       |          |       |      |       |       |      |          |          |
| 19.334 | 1426.00 | 0.00   | 0.00  | 0.90  | 6883.00  | 23.82 | 0.00 | 23.93 | 2.36  | 2.94 | 4742.64  | 4484.42  |
| 19.334 | 1426.00 | 0.00   | 0.00  | 0.90  | 10669.00 | 26.32 | 0.00 | 26.41 | 2.03  | 3.04 | 10746.73 | 7483.90  |
| 19.334 | 1426.00 | 0.00   | 0.00  | 0.90  | 11585.00 | 26.93 | 0.00 | 27.01 | 1.83  | 2.94 | 12630.63 | 8562.79  |
| 19.334 | 1426.00 | 0.00   | 0.00  | 0.90  | 12464.00 | 27.49 | 0.00 | 27.55 | 1.67  | 2.85 | 14436.44 | 9657.96  |
| 19.334 | 1426.00 | 0.00   | 0.00  | 0.90  | 13498.00 | 28.01 | 0.00 | 28.07 | 1.56  | 2.81 | 16217.13 | 10790.10 |
| 19.334 | 1426.00 | 0.00   | 0.00  | 0.90  | 20426.00 | 30.53 | 0.00 |       | 30.57 | 2.65 |          |          |

|        |          |      |      |           |       |       |       |      |          |          |
|--------|----------|------|------|-----------|-------|-------|-------|------|----------|----------|
| 20.054 | 3.902.00 | 0.00 | 2.70 | 0.00      | 24.67 | 24.79 | 3.09  | 3.28 | 5410.00  | 3915.83  |
| 20.054 | 3.902.00 | 0.00 | 2.70 | 1.0669.00 | 26.89 | 26.97 | 2.40  | 3.15 | 11807.09 | 6882.19  |
| 20.054 | 3.902.00 | 0.00 | 2.70 | 1.1585.00 | 27.42 | 0.00  | 27.49 | 2.15 | 13943.87 | 7891.94  |
| 20.054 | 3.902.00 | 0.00 | 2.70 | 12464.00  | 27.91 | 0.00  | 27.97 | 2.15 | 16168.51 | 8956.81  |
| 20.054 | 3.902.00 | 0.00 | 2.70 | 13498.00  | 28.38 | 0.00  | 28.43 | 1.76 | 18567.24 | 10166.27 |
| 20.054 | 3.902.00 | 0.00 | 2.70 | 20426.00  | 30.75 | 0.00  | 30.76 | 1.21 | 32776.52 | 18572.95 |

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| SERIAL | YLFN    | FLTRD | FLLC  | FLMIN | G        | CSEL  | CHWS | VCH   | AREA | .01K     |
|--------|---------|-------|-------|-------|----------|-------|------|-------|------|----------|
| 20.744 | 5643.00 | 0.00  | 0.00  | 2.10  | 6883.00  | 25.88 | 0.00 | 26.10 | 5.68 | 3697.83  |
| 20.744 | 5643.00 | 0.00  | 0.00  | 2.10  | 10669.00 | 27.81 | 0.00 | 28.01 | 5.80 | 7293.56  |
| 20.744 | 5643.00 | 0.00  | 0.00  | 2.10  | 11585.00 | 28.23 | 0.00 | 28.41 | 5.50 | 8555.52  |
| 20.744 | 5643.00 | 0.00  | 0.00  | 2.10  | 12464.00 | 28.62 | 0.00 | 28.78 | 5.13 | 9932.87  |
| 20.744 | 5643.00 | 0.00  | 0.00  | 2.10  | 13498.00 | 29.01 | 0.00 | 29.15 | 4.80 | 11538.09 |
| 20.744 | 5643.00 | 0.00  | 0.00  | 2.10  | 20426.00 | 31.10 | 0.00 | 31.17 | 3.96 | 22106.78 |
| 20.744 | 5643.00 | 0.00  | 0.00  | 2.10  | 6883.00  | 26.16 | 0.00 | 26.31 | 3.50 | 3.98     |
| 20.855 | 590.00  | 0.00  | 0.00  | 2.10  | 10669.00 | 28.07 | 0.00 | 28.20 | 3.28 | 4.11     |
| 20.855 | 590.00  | 0.00  | 0.00  | 2.10  | 11585.00 | 28.47 | 0.00 | 28.58 | 3.06 | 4.02     |
| 20.855 | 590.00  | 0.00  | 0.00  | 2.10  | 12464.00 | 28.84 | 0.00 | 28.93 | 2.85 | 3.93     |
| 20.855 | 590.00  | 0.00  | 0.00  | 2.10  | 13498.00 | 29.21 | 0.00 | 29.29 | 2.66 | 3.84     |
| 20.855 | 590.00  | 0.00  | 0.00  | 2.10  | 20426.00 | 31.20 | 0.00 | 31.25 | 1.85 | 3.39     |
| 20.855 | 590.00  | 0.00  | 0.00  | 2.10  | 6883.00  | 26.31 | 0.00 | 26.60 | 8.96 | 4.68     |
| 20.922 | 353.00  | 0.00  | 0.00  | 4.90  | 10669.00 | 28.21 | 0.00 | 28.48 | 8.50 | 5.00     |
| 20.922 | 353.00  | 0.00  | 0.00  | 4.90  | 11585.00 | 28.60 | 0.00 | 28.84 | 7.82 | 7408.82  |
| 20.922 | 353.00  | 0.00  | 0.00  | 4.90  | 12464.00 | 29.06 | 0.00 | 29.17 | 7.17 | 4.74     |
| 20.922 | 353.00  | 0.00  | 0.00  | 4.90  | 13498.00 | 29.32 | 0.00 | 29.51 | 6.56 | 4.61     |
| 20.922 | 353.00  | 0.00  | 0.00  | 4.90  | 20426.00 | 31.28 | 0.00 | 31.37 | 4.03 | 3.91     |
| 20.922 | 353.00  | 0.00  | 0.00  | 4.90  | 6883.00  | 26.31 | 0.00 | 26.60 | 8.96 | 4.68     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 10669.00 | 28.27 | 0.00 | 28.53 | 8.18 | 4.92     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 11585.00 | 28.70 | 0.00 | 28.92 | 7.34 | 4.75     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 12464.00 | 29.10 | 0.00 | 29.29 | 6.53 | 4.56     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 13498.00 | 29.50 | 0.00 | 29.66 | 5.84 | 4.38     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 20426.00 | 31.67 | 0.00 | 31.74 | 3.15 | 3.51     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 6883.00  | 26.39 | 0.00 | 26.68 | 8.68 | 4.63     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 10669.00 | 28.27 | 0.00 | 28.53 | 8.18 | 4.92     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 11585.00 | 28.70 | 0.00 | 28.92 | 7.34 | 4.75     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 12464.00 | 29.10 | 0.00 | 29.29 | 6.53 | 4.56     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 13498.00 | 29.50 | 0.00 | 29.66 | 5.84 | 4.38     |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 20426.00 | 31.67 | 0.00 | 31.74 | 3.15 | 3.51     |
| 20.934 | 50.00   | 0.00  | 0.00  | 4.90  | 6883.00  | 26.44 | 0.00 | 26.73 | 8.52 | 4.60     |
| 20.934 | 50.00   | 0.00  | 0.00  | 4.90  | 10669.00 | 28.32 | 0.00 | 28.57 | 7.98 | 4.86     |
| 20.934 | 50.00   | 0.00  | 0.00  | 4.90  | 11585.00 | 28.74 | 0.00 | 28.96 | 7.17 | 4.70     |
| 20.934 | 50.00   | 0.00  | 0.00  | 4.90  | 12464.00 | 29.14 | 0.00 | 29.32 | 6.39 | 4.51     |
| 20.934 | 50.00   | 0.00  | 0.00  | 4.90  | 13498.00 | 29.54 | 0.00 | 29.69 | 5.73 | 4.35     |
| 20.934 | 50.00   | 0.00  | 0.00  | 4.90  | 20426.00 | 31.69 | 0.00 | 31.75 | 3.12 | 3.49     |
| 20.934 | 50.00   | 0.00  | 0.00  | 4.90  | 6883.00  | 26.44 | 0.00 | 26.73 | 8.52 | 4.60     |
| 21.105 | 960.00  | 0.00  | 0.00  | 4.10  | 10669.00 | 28.75 | 0.00 | 28.78 | 1.66 | 2.70     |
| 21.105 | 960.00  | 0.00  | 0.00  | 4.10  | 11585.00 | 29.11 | 0.00 | 29.14 | 1.53 | 2.63     |
| 21.105 | 960.00  | 0.00  | 0.00  | 4.10  | 12464.00 | 29.46 | 0.00 | 29.46 | 1.37 | 2.52     |
| 21.105 | 960.00  | 0.00  | 0.00  | 4.10  | 13498.00 | 29.82 | 0.00 | 29.84 | 1.26 | 2.44     |
| 21.105 | 960.00  | 0.00  | 0.00  | 4.10  | 20426.00 | 31.82 | 0.00 | 31.83 | 0.81 | 2.08     |

|        |         |      |      |      |          |       |      |       |      |      |          |          |
|--------|---------|------|------|------|----------|-------|------|-------|------|------|----------|----------|
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 5491.00  | 27.27 | 0.00 | 27.34 | 2.57 | 3.21 | 6479.99  | 3426.75  |
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 8442.00  | 29.01 | 0.00 | 29.05 | 2.23 | 3.16 | 11130.28 | 5658.70  |
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 9014.00  | 29.35 | 0.00 | 29.39 | 2.10 | 3.10 | 12216.54 | 6221.60  |
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 9740.00  | 29.67 | 0.00 | 29.71 | 1.94 | 3.01 | 13277.29 | 6782.05  |
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 10611.00 | 30.01 | 0.00 | 30.04 | 1.82 | 2.95 | 14464.71 | 7421.83  |
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 14004.00 | 31.94 | 0.00 | 31.96 | 1.33 | 2.66 | 22946.03 | 12135.01 |

|        |         |      |      |      |          |       |      |       |      |      |          |          |
|--------|---------|------|------|------|----------|-------|------|-------|------|------|----------|----------|
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 5491.00  | 27.27 | 0.00 | 27.34 | 2.57 | 3.21 | 6479.99  | 3426.75  |
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 8442.00  | 29.01 | 0.00 | 29.05 | 2.23 | 3.16 | 11130.28 | 5658.70  |
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 9014.00  | 29.35 | 0.00 | 29.39 | 2.10 | 3.10 | 12216.54 | 6221.60  |
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 9740.00  | 29.67 | 0.00 | 29.71 | 1.94 | 3.01 | 13277.29 | 6782.05  |
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 10611.00 | 30.01 | 0.00 | 30.04 | 1.82 | 2.95 | 14464.71 | 7421.83  |
| 21.645 | 2951.00 | 0.00 | 0.00 | 4.10 | 14004.00 | 31.94 | 0.00 | 31.96 | 1.33 | 2.66 | 22946.03 | 12135.01 |

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CLFAP CREEK CHANNEL IMP

SUMMARY PERTURBATION TABLET 150

ULTIMATE WATERSHED CONDITIONS WITH PROPOSED IMPROVEMENTS

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| SECNO | YLCN   | FILT RD | FIL C     | FLMIN     | Q        | CWSEL    | CKWS | EG   | 10K*S | VCH  | ARFA     | *01K     |          |
|-------|--------|---------|-----------|-----------|----------|----------|------|------|-------|------|----------|----------|----------|
| 0.000 | 0.00   | 0.00    | 0.00      | -22.10    | 33029.00 | 2.00     | 0.00 | 2.33 | 1.76  | 5.26 | 8923.71  | 24884.01 |          |
| *     | 0.042  | 220.00  | 0.00      | 0.00      | -22.40   | 33029.00 | 2.01 | 0.00 | 2.32  | 1.92 | 3.82     | 7563.22  | 23840.22 |
| 0.083 | 220.00 | 0.00    | 0.00      | -22.40    | 33029.00 | 2.05     | 0.00 | 2.36 | 1.91  | 3.81 | 7581.81  | 23926.14 |          |
| 0.125 | 220.00 | 0.00    | 0.00      | -22.40    | 33029.00 | 2.09     | 0.00 | 2.40 | 1.89  | 3.80 | 7602.72  | 24023.02 |          |
| 0.167 | 220.00 | 0.00    | 0.00      | -22.40    | 33029.00 | 2.13     | 0.00 | 2.44 | 1.88  | 3.79 | 7622.71  | 24115.76 |          |
| 0.207 | 215.00 | 0.00    | 0.00      | -21.50    | 33029.00 | 2.15     | 0.00 | 2.52 | 4.67  | 5.98 | 8482.21  | 15289.98 |          |
| 0.255 | 250.00 | 0.00    | 0.00      | -22.30    | 33029.00 | 2.34     | 0.00 | 2.64 | 3.92  | 5.51 | 9416.80  | 16689.43 |          |
| 0.319 | 340.00 | 0.00    | 0.00      | -23.80    | 33029.00 | 2.46     | 0.00 | 2.77 | 3.91  | 5.53 | 9252.83  | 16708.84 |          |
| 0.385 | 350.00 | 0.00    | 0.00      | -23.80    | 31482.00 | 2.56     | 0.00 | 2.97 | 4.75  | 6.12 | 7532.75  | 14439.92 |          |
| 0.418 | 175.00 | 0.00    | 0.00      | -37.40    | 31482.00 | 2.90     | 0.00 | 3.09 | 2.57  | 4.55 | 11583.22 | 19631.68 |          |
| 0.421 | 14.00  | 5.30    | 23.40     | -37.40    | 31482.00 | 2.94     | 0.00 | 3.11 | 0.80  | 2.55 | 11222.09 | 35120.09 |          |
| 0.426 | 28.00  | 5.30    | 23.40     | -37.40    | 31482.00 | 2.99     | 0.00 | 3.12 | 0.80  | 2.55 | 11228.59 | 35135.55 |          |
| 0.427 | 1.00   | 0.00    | 0.00      | -37.40    | 31482.00 | 2.99     | 0.00 | 3.12 | 1.61  | 3.65 | 11570.08 | 24641.46 |          |
| 0.440 | 101.00 | 0.00    | 0.00      | -24.00    | 31482.00 | 3.01     | 0.00 | 3.15 | 2.06  | 4.09 | 17081.52 | 21915.57 |          |
| 0.479 | 144.00 | 0.00    | 0.00      | -24.00    | 31482.00 | 2.96     | 0.00 | 3.27 | 2.07  | 4.80 | 13426.22 | 21890.47 |          |
| *     | 0.482  | 16.00   | 100000.00 | 100000.00 | -24.00   | 31063.00 | 2.99 | 0.00 | 3.13  | 2.02 | 4.04     | 17033.09 | 21872.30 |
| 0.494 | 40.00  | 0.00    | 0.00      | -22.00    | 30869.00 | 3.04     | 0.00 | 3.17 | 1.90  | 3.92 | 18891.91 | 22411.79 |          |
| 0.660 | 850.00 | 0.00    | 0.00      | -20.60    | 29845.00 | 3.19     | 0.00 | 3.32 | 1.70  | 3.73 | 11729.23 | 22892.87 |          |

|       |         |      |      |        |          |      |      |      |      |      |          |          |
|-------|---------|------|------|--------|----------|------|------|------|------|------|----------|----------|
| 0.682 | 1175.00 | 0.00 | 0.00 | -15.00 | 27842.00 | 3.42 | 0.00 | 3.54 | 1.86 | 2.78 | 10022.05 | 20407.11 |
| 1.017 | 713.00  | 0.00 | 0.00 | -9.60  | 27842.00 | 3.59 | 0.00 | 3.61 | 0.31 | 1.03 | 27017.04 | 50328.05 |
| 1.286 | 1426.00 | 0.00 | 0.00 | -9.60  | 27842.00 | 3.62 | 0.00 | 3.64 | 0.18 | 0.96 | 29050.67 | 65414.66 |
| 1.496 | 1109.00 | 0.00 | 0.00 | -9.60  | 25346.00 | 3.64 | 0.00 | 3.67 | 0.42 | 1.37 | 18595.25 | 59059.96 |
| 1.696 | 2112.00 | 0.00 | 0.00 | -9.60  | 23792.00 | 3.71 | 0.00 | 3.71 | 0.11 | 0.72 | 32911.13 | 70594.51 |
| 2.208 | 1637.00 | 0.00 | 0.00 | -9.60  | 22524.00 | 3.72 | 0.00 | 3.74 | 0.17 | 0.99 | 22782.63 | 54035.59 |

| 20-DEC-84 | 14:01:02 | SLRDN     | XLCDA     | FLTKD  | FLLC     | FLMIN | Q    | CWSTL | CRWS | EG   | 10K+S    | VCH      | AHEA | .01K |
|-----------|----------|-----------|-----------|--------|----------|-------|------|-------|------|------|----------|----------|------|------|
| 2.498     | 1531.00  | 0.00      | 0.00      | -9.60  | 21337.00 | 3.75  | 0.00 | 3.75  | 0.06 | 0.59 | 36276.30 | 90288.94 |      |      |
| 2.988     | 2587.00  | 0.00      | 0.00      | -9.60  | 19088.00 | 3.76  | 0.00 | 3.77  | 0.06 | 0.57 | 33455.12 | 78260.46 |      |      |
| 3.417     | 2270.00  | 0.00      | 0.00      | -9.60  | 19088.00 | 3.76  | 0.00 | 3.78  | 0.08 | 0.65 | 29535.15 | 68295.02 |      |      |
| 3.601     | 1003.00  | 0.00      | 0.00      | -9.60  | 19088.00 | 3.78  | 0.00 | 3.81  | 0.37 | 1.31 | 14619.89 | 31350.30 |      |      |
| 3.977     | 1954.00  | 0.00      | 0.00      | -9.60  | 19088.00 | 3.87  | 0.00 | 3.90  | 0.61 | 1.51 | 12684.23 | 24521.71 |      |      |
| 4.227     | 1320.00  | 0.00      | 0.00      | -13.60 | 19088.00 | 3.96  | 0.00 | 4.20  | 3.49 | 3.94 | 4847.09  | 10214.33 |      |      |
| 4.857     | 3326.00  | 0.00      | 0.00      | -14.20 | 19088.00 | 4.33  | 0.00 | 4.35  | 0.14 | 1.00 | 19510.21 | 51266.27 |      |      |
| 5.447     | 3115.00  | 0.00      | 0.00      | -12.80 | 19088.00 | 4.75  | 0.00 | 5.40  | 5.07 | 6.59 | 4557.50  | 8474.18  |      |      |
| 5.647     | 1656.00  | 0.00      | 0.00      | -12.90 | 19088.00 | 5.65  | 0.00 | 5.75  | 1.13 | 3.06 | 10058.77 | 17945.34 |      |      |
| 5.857     | 1050.00  | 0.00      | 0.00      | -15.00 | 19088.00 | 5.68  | 0.00 | 6.14  | 4.08 | 5.77 | 5589.34  | 9452.48  |      |      |
| 6.396     | 750.00   | 0.00      | 0.00      | -15.00 | 19088.00 | 6.25  | 0.00 | 6.56  | 5.29 | 6.45 | 8980.14  | 8297.68  |      |      |
| 6.406     | 50.00    | 100000.00 | 100000.00 | -15.00 | 19088.00 | 6.28  | 0.00 | 6.59  | 4.50 | 6.19 | 9209.41  | 8996.22  |      |      |
| 6.605     | 500.00   | 0.00      | 0.00      | -15.00 | 19088.00 | 6.48  | 0.00 | 6.80  | 3.54 | 6.10 | 9380.70  | 10151.39 |      |      |
| 6.718     | 500.00   | 0.00      | 0.00      | -12.00 | 19088.00 | 6.82  | 0.00 | 6.86  | 0.27 | 1.66 | 12601.71 | 36602.58 |      |      |
| 7.028     | 1584.00  | 0.00      | 0.00      | -15.00 | 18110.00 | 6.86  | 0.00 | 6.93  | 0.55 | 2.00 | 10266.93 | 24518.07 |      |      |
| 7.308     | 1350.00  | 0.00      | 0.00      | -15.00 | 18110.00 | 6.97  | 0.00 | 7.03  | 1.08 | 2.10 | 10910.55 | 17446.21 |      |      |
| 7.476     | 800.00   | 0.00      | 0.00      | -15.00 | 18110.00 | 7.04  | 0.00 | 7.08  | 0.32 | 1.55 | 12385.80 | 31888.30 |      |      |
| 7.956     | 700.00   | 0.00      | 0.00      | -15.00 | 18110.00 | 7.03  | 0.00 | 7.18  | 1.37 | 3.14 | 6097.86  | 15487.86 |      |      |
| 7.959     | 200      | 12.10     | 17.50     | -15.00 | 18110.00 | 7.01  | 0.00 | 7.20  | 2.07 | 3.47 | 5213.99  | 12596.55 |      |      |
| 7.960     | 12.00    | 12.10     | 17.50     | -15.00 | 18110.00 | 7.01  | 0.00 | 7.20  | 2.07 | 4.31 | 6022.86  | 9793.39  |      |      |
| 7.961     | 2.00     | 0.00      | 0.00      | -15.00 | 18110.00 | 7.01  | 0.00 | 7.21  | 3.42 |      |          |          |      |      |

|       |        |       |       |        |          |      |      |      |      |      |          |          |
|-------|--------|-------|-------|--------|----------|------|------|------|------|------|----------|----------|
| 8.008 | 529.00 | 0.00  | 0.00  | -15.00 | 16110.00 | 7.22 | 0.00 | 7.31 | 1.35 | 2.82 | 10425.74 | 15607.47 |
| 8.009 | 5.00   | 11.90 | 17.20 | -15.00 | 16110.00 | 6.97 | 0.00 | 7.57 | 4.12 | 6.63 | 5306.26  | 8922.55  |
| 8.011 | 12.00  | 11.90 | 17.20 | -15.00 | 18110.00 | 6.98 | 0.00 | 7.57 | 4.12 | 6.63 | 5307.61  | 8925.61  |
| 8.012 | 5.00   | 0.00  | 0.00  | -15.00 | 18110.00 | 7.10 | 0.00 | 7.60 | 3.69 | 6.28 | 5495.56  | 9422.82  |
| 8.018 | 30.00  | 0.00  | 0.00  | -15.00 | 18110.00 | 7.12 | 0.00 | 7.62 | 3.53 | 6.19 | 5544.96  | 9634.95  |

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| SEQNO  | XLCN    | FLTRD  | ELLC      | ELMIN     | Q        | CSEL     | CRINS | EG   | 10K*S | VCH  | AREA     | *01K     |          |
|--------|---------|--------|-----------|-----------|----------|----------|-------|------|-------|------|----------|----------|----------|
| 8.020  | 15.00   | 10.50  | 16.10     | -15.00    | 18110.00 | 7.09     | 0.00  | 7.60 | 3.87  | 6.52 | 5316.88  | 9210.21  |          |
| 8.022  | 12.00   | 10.50  | 16.10     | -15.00    | 18110.00 | 7.10     | 0.00  | 7.60 | 3.86  | 6.51 | 5316.79  | 9214.58  |          |
| 8.025  | 11.00   | 0.00   | 0.00      | -15.00    | 18110.00 | 7.79     | 0.00  | 7.83 | 0.44  | 1.64 | 14921.06 | 27340.28 |          |
| 8.264  | 15.00   | 0.00   | 0.00      | -15.00    | 18110.00 | 7.79     | 0.00  | 7.83 | 0.44  | 1.64 | 14927.19 | 27354.94 |          |
| 8.379  | 581.00  | 0.00   | 0.00      | -15.00    | 18110.00 | 7.75     | 0.00  | 7.89 | 0.71  | 3.43 | 11542.96 | 21463.64 |          |
| 8.578  | 581.00  | 0.00   | 0.00      | -15.00    | 18110.00 | 7.88     | 0.00  | 7.93 | 0.48  | 1.91 | 9811.00  | 26249.58 |          |
| 8.777  | 1050.00 | 0.00   | 0.00      | -15.00    | 18110.00 | 7.94     | 0.00  | 7.97 | 0.31  | 1.50 | 12757.53 | 32348.36 |          |
| 8.976  | 1052.00 | 0.00   | 0.00      | -15.00    | 17793.00 | 7.91     | 0.00  | 8.06 | 0.78  | 3.46 | 10670.02 | 20141.91 |          |
| 9.101  | 650.00  | 0.00   | 0.00      | -15.00    | 17793.00 | 8.06     | 0.00  | 8.11 | 0.39  | 1.80 | 10420.25 | 28618.39 |          |
| 9.360  | 1400.00 | 0.00   | 0.00      | -15.00    | 17793.00 | 8.08     | 0.00  | 8.18 | 0.42  | 2.69 | 12414.97 | 27495.77 |          |
| 9.580  | 1161.00 | 0.00   | 0.00      | -15.00    | 17634.00 | 8.12     | 0.00  | 8.20 | 0.64  | 3.29 | 11147.42 | 22106.00 |          |
| 9.673  | 460.00  | 0.00   | 0.00      | -15.00    | 17634.00 | 8.15     | 0.00  | 8.29 | 0.74  | 3.30 | 8042.04  | 20465.35 |          |
| *      | 9.676   | 16.00  | 100000.00 | 100000.00 | -15.00   | 17634.00 | 8.17  | 0.00 | 8.31  | 0.74 | 3.29     | 8058.63  | 20514.60 |
| *      | 9.685   | 47.00  | 0.00      | 0.00      | -15.00   | 17634.00 | 8.19  | 0.00 | 8.32  | 0.68 | 3.16     | 8626.24  | 21395.25 |
| *      | 9.704   | 102.00 | 100000.00 | 100000.00 | -15.00   | 17634.00 | 8.21  | 0.00 | 8.34  | 0.66 | 3.15     | 8647.61  | 21456.51 |
| *      | 9.712   | 30.00  | 0.00      | 0.00      | -15.00   | 17634.00 | 8.21  | 0.00 | 8.35  | 0.73 | 3.28     | 8088.87  | 20604.46 |
| *      | 9.718   | 32.00  | 100000.00 | 100000.00 | -15.00   | 17634.00 | 8.23  | 0.00 | 8.37  | 0.73 | 3.28     | 8097.30  | 20629.52 |
| *      | 9.721   | 14.00  | 0.00      | 0.00      | -15.00   | 17634.00 | 8.24  | 0.00 | 8.37  | 0.92 | 3.12     | 8572.67  | 18346.52 |
| *      | 9.640   | 653.00 | 0.00      | 0.00      | -15.00   | 17634.00 | 8.30  | 0.00 | 8.44  | 0.87 | 3.11     | 10090.37 | 18897.96 |
| 10.200 | 1900.00 | 0.00   | 0.00      | -15.00    | 17634.00 | 8.50     | 0.00  | 8.59 | 0.67  | 2.47 | 10704.57 | 21516.15 |          |
| 10.490 | 1531.00 | 0.00   | 0.00      | -15.00    | 17634.00 | 8.63     | 0.00  | 8.69 | 0.53  | 2.31 | 13092.65 | 2415b.38 |          |

|        |         |      |      |        |          |      |      |      |      |      |          |          |
|--------|---------|------|------|--------|----------|------|------|------|------|------|----------|----------|
| 10.670 | 750.00  | 0.00 | 0.00 | -15.00 | 17634.00 | 8.63 | 0.00 | 8.79 | 0.93 | 3.40 | 8524.94  | 18263.08 |
| 10.690 | 1160.00 | 0.00 | 0.00 | -17.60 | 17634.00 | 8.73 | 0.00 | 8.90 | 0.94 | 3.49 | 7756.50  | 18213.43 |
| 11.240 | 1950.00 | 0.00 | 0.00 | -15.00 | 17634.00 | 8.98 | 0.00 | 9.02 | 0.42 | 1.79 | 12009.26 | 27151.85 |
| 11.460 | 1102.00 | 0.00 | 0.00 | -15.00 | 17634.00 | 8.97 | 0.00 | 9.13 | 0.93 | 3.39 | 7867.14  | 18329.17 |
| 11.720 | 1400.00 | 0.00 | 0.00 | -15.00 | 17634.00 | 9.15 | 0.00 | 9.25 | 0.67 | 2.78 | 11520.03 | 21532.26 |

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| SECTION | XLRCH   | FLTKD | ELLC  | FLMIN  | G        | CASEL | CRIMS | EG    | 10K*S | VCH  | AREA    | *01K     |
|---------|---------|-------|-------|--------|----------|-------|-------|-------|-------|------|---------|----------|
| 12.146  | 2218.00 | 0.00  | 0.00  | -16.90 | 17634.00 | 9.27  | 0.00  | 9.44  | 0.90  | 3.40 | 7506.11 | 18598.16 |
| 12.600  | 2429.00 | 0.00  | 0.00  | -15.00 | 16863.00 | 9.52  | 0.00  | 9.64  | 0.73  | 2.92 | 7682.35 | 19694.95 |
| 12.960  | 1901.00 | 0.00  | 0.00  | -15.00 | 16863.00 | 9.64  | 0.00  | 9.80  | 0.85  | 3.34 | 6028.57 | 18343.44 |
| 13.316  | 1848.00 | 0.00  | 0.00  | -16.90 | 16863.00 | 9.80  | 0.00  | 9.96  | 0.87  | 3.29 | 5764.24 | 18062.39 |
| 13.586  | 1426.00 | 0.00  | 0.00  | -14.20 | 16863.00 | 9.92  | 0.00  | 10.10 | 0.99  | 3.46 | 5259.04 | 16911.60 |
| 13.616  | 1714.00 | 0.00  | 0.00  | -13.50 | 16863.00 | 10.04 | 0.00  | 10.22 | 1.02  | 3.52 | 6392.45 | 16689.22 |
| 14.016  | 1214.00 | 0.00  | 0.00  | -12.75 | 16863.00 | 10.15 | 0.00  | 10.37 | 1.21  | 3.71 | 4905.80 | 15304.86 |
| 14.197  | 800.00  | 0.00  | 0.00  | -12.24 | 16863.00 | 10.30 | 0.00  | 10.46 | 1.07  | 3.42 | 6708.30 | 16272.16 |
| 14.443  | 1300.00 | 0.00  | 0.00  | -12.50 | 16863.00 | 10.45 | 0.00  | 10.61 | 1.16  | 3.40 | 7060.81 | 15536.55 |
| 14.635  | 1000.00 | 0.00  | 0.00  | -12.00 | 16863.00 | 10.55 | 0.00  | 10.80 | 1.72  | 4.07 | 4147.82 | 12856.72 |
| 14.675  | 211.00  | 0.00  | 0.00  | -11.90 | 16863.00 | 10.12 | 0.00  | 11.44 | 1.96  | 9.21 | 1830.12 | 4512.85  |
| 14.681  | 42.00   | 23.60 | 21.50 | -11.90 | 16863.00 | 10.36 | 0.00  | 11.62 | 13.18 | 9.03 | 1867.21 | 4644.14  |
| 14.714  | 179.00  | 0.00  | 0.00  | -11.90 | 16863.00 | 10.70 | 0.00  | 11.94 | 21.95 | 8.97 | 2066.84 | 3599.25  |
| 15.135  | 2218.00 | 0.00  | 0.00  | -6.90  | 16863.00 | 15.22 | 0.00  | 16.10 | 18.62 | 8.70 | 3577.25 | 3907.53  |
| 15.505  | 1954.00 | 0.00  | 0.00  | -6.30  | 13465.00 | 16.75 | 0.00  | 16.89 | 2.12  | 3.22 | 6488.97 | 9240.83  |
| 15.606  | 533.00  | 0.00  | 0.00  | -6.30  | 13465.00 | 16.80 | 0.00  | 16.90 | 0.87  | 3.44 | 6519.81 | 14401.89 |
| 15.712  | 500.00  | 0.00  | 0.00  | -1.10  | 13465.00 | 17.11 | 0.00  | 17.91 | 21.80 | 7.15 | 1882.62 | 2883.61  |
| 15.716  | 32.00   | 20.70 | 18.70 | -1.10  | 13465.00 | 17.25 | 0.00  | 18.03 | 21.15 | 7.07 | 1903.26 | 2927.56  |
| 15.768  | 264.00  | 0.00  | 0.00  | -5.40  | 13465.00 | 18.13 | 0.00  | 18.46 | 8.00  | 5.82 | 4993.27 | 4759.92  |
| 15.834  | 350.00  | 0.00  | 0.00  | -5.40  | 13465.00 | 18.54 | 0.00  | 18.66 | 3.52  | 3.92 | 6130.77 | 7172.25  |
| 15.872  | 200.00  | 0.00  | 0.00  | -2.20  | 13465.00 | 18.60 | 0.00  | 18.79 | 5.12  | 4.44 | 4703.75 | 5955.08  |

|        |         |      |      |       |          |       |      |       |       |      |          |          |
|--------|---------|------|------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 15.900 | 150.00  | 0.00 | 0.00 | -2.20 | 13465.00 | 18.72 | 0.00 | 18.90 | 4.99  | 4.40 | 4746.05  | 6026.43  |
| 16.203 | 1600.00 | 0.00 | 0.00 | -2.20 | 13465.00 | 19.39 | 0.00 | 19.80 | 9.81  | 6.33 | 3972.71  | 4299.77  |
| 16.625 | 2218.00 | 0.00 | 0.00 | -3.70 | 13465.00 | 20.08 | 0.00 | 20.12 | 0.80  | 2.02 | 11506.60 | 15009.82 |
| 16.973 | 1848.00 | 0.00 | 0.00 | -2.60 | 13465.00 | 20.23 | 0.00 | 20.77 | 14.38 | 7.69 | 3730.44  | 3550.53  |
| 17.210 | 1250.00 | 0.00 | 0.00 | -3.20 | 13465.00 | 22.74 | 0.00 | 22.91 | 3.73  | 4.39 | 6359.97  | 6968.15  |

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| SLC#0  | XLIN   | FLTRD | FLLC | FLMIN | Q        | CSEL  | CRHS | EG    | 10K*S | VCH  | AREA     | *01K     |
|--------|--------|-------|------|-------|----------|-------|------|-------|-------|------|----------|----------|
| 17.258 | 250.00 | 0.00  | 0.00 | -3.20 | 13465.00 | 22.86 | 0.00 | 22.98 | 2.51  | 3.72 | 6809.67  | 8504.90  |
| 17.286 | 150.00 | 0.00  | 0.00 | -3.20 | 13465.00 | 22.89 | 0.00 | 23.01 | 2.50  | 3.72 | 6844.99  | 8515.46  |
| 17.533 | 250.00 | 0.00  | 0.00 | -3.20 | 13465.00 | 22.98 | 0.00 | 23.05 | 1.65  | 2.94 | 7535.27  | 10484.68 |
| 17.381 | 250.00 | 0.00  | 0.00 | -3.20 | 13465.00 | 22.99 | 0.00 | 23.10 | 2.44  | 3.69 | 6962.12  | 8621.37  |
| 17.596 | 90.00  | 0.00  | 0.00 | -4.80 | 13465.00 | 22.93 | 0.00 | 23.17 | 5.05  | 5.19 | 6361.26  | 5990.97  |
| 17.426 | 150.00 | 0.00  | 0.00 | -4.80 | 13465.00 | 23.13 | 0.00 | 23.22 | 2.08  | 3.42 | 7120.79  | 9329.27  |
| 17.445 | 100.00 | 0.00  | 0.00 | -4.80 | 13465.00 | 23.15 | 0.00 | 23.24 | 2.18  | 3.51 | 7138.05  | 9110.06  |
| 17.475 | 150.00 | 0.00  | 0.00 | -4.80 | 13465.00 | 23.17 | 0.00 | 23.25 | 2.06  | 3.41 | 7167.87  | 9371.62  |
| 17.511 | 200.00 | 0.00  | 0.00 | -4.80 | 13465.00 | 23.12 | 0.00 | 23.35 | 4.78  | 5.08 | 6642.15  | 6157.64  |
| 17.534 | 120.00 | 0.00  | 0.00 | -4.80 | 13465.00 | 23.28 | 0.00 | 23.50 | 4.57  | 4.99 | 6882.68  | 6300.82  |
| 17.548 | 75.00  | 0.00  | 0.00 | -4.80 | 11229.00 | 23.41 | 0.00 | 23.55 | 3.06  | 4.10 | 7077.12  | 6416.52  |
| 17.562 | 75.00  | 0.00  | 0.00 | -4.80 | 11229.00 | 23.53 | 0.00 | 23.57 | 1.07  | 2.43 | 8261.29  | 10869.71 |
| 17.581 | 100.00 | 0.00  | 0.00 | -4.80 | 11229.00 | 23.54 | 0.00 | 23.58 | 0.95  | 2.29 | 8729.21  | 11511.20 |
| 17.591 | 50.00  | 0.00  | 0.00 | -4.70 | 11229.00 | 23.56 | 0.00 | 23.59 | 0.73  | 1.87 | 11054.14 | 13183.25 |
| 17.614 | 125.00 | 0.00  | 0.00 | -4.70 | 11229.00 | 23.56 | 0.00 | 23.61 | 1.95  | 3.06 | 10280.12 | 8044.66  |
| 17.690 | 450.00 | 0.00  | 0.00 | -4.70 | 11229.00 | 23.68 | 0.00 | 23.73 | 1.89  | 3.03 | 10426.16 | 8162.46  |
| 17.776 | 420.00 | 0.00  | 0.00 | -4.70 | 11229.00 | 23.73 | 0.00 | 23.77 | 1.86  | 3.00 | 10511.55 | 8231.30  |
| 17.815 | 200.00 | 0.00  | 0.00 | -4.70 | 11229.00 | 23.78 | 0.00 | 23.81 | 0.87  | 2.06 | 11055.19 | 12040.47 |
| 17.842 | 150.00 | 0.00  | 0.00 | -4.70 | 11229.00 | 23.80 | 0.00 | 23.82 | 0.54  | 1.62 | 12386.81 | 15342.26 |
| 17.866 | 125.00 | 0.00  | 0.00 | -4.70 | 11229.00 | 23.81 | 0.00 | 23.83 | 0.60  | 1.71 | 11746.46 | 14499.47 |
| 17.913 | 250.00 | 0.00  | 0.00 | -4.70 | 11229.00 | 23.81 | 0.00 | 23.85 | 1.82  | 2.97 | 10639.46 | 8334.35  |

|        |         |       |      |       |          |       |      |       |       |      |         |         |
|--------|---------|-------|------|-------|----------|-------|------|-------|-------|------|---------|---------|
| 17.492 | 120.00  | 0.00  | 0.00 | -0.90 | 11229.00 | 23.84 | 0.00 | 24.09 | 7.20  | 5.54 | 5013.94 | 4183.47 |
| 18.146 | 782.00  | 0.00  | 0.00 | -0.90 | 11229.00 | 24.26 | 0.00 | 24.80 | 11.62 | 5.77 | 1945.26 | 3293.44 |
| 18.146 | 32.00   | 24.00 | 0.00 | -0.90 | 11229.00 | 24.44 | 0.00 | 24.94 | 11.13 | 5.70 | 1970.94 | 3366.25 |
| 18.214 | 354.00  | 0.00  | 0.00 | -0.90 | 11229.00 | 25.11 | 0.00 | 25.27 | 4.71  | 4.67 | 6619.86 | 5174.25 |
| 18.454 | 1267.00 | 0.00  | 0.00 | 1.60  | 11229.00 | 25.54 | 0.00 | 25.58 | 1.63  | 2.70 | 9630.44 | 8793.79 |

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| STC#N  | YLC#H   | FLTKD | FLLC  | FLMIN | Q        | CSEL  | CKWS | EG    | 10K*S | VCR  | AREA     | *01K    |
|--------|---------|-------|-------|-------|----------|-------|------|-------|-------|------|----------|---------|
| 18.664 | 1109.00 | 0.00  | 0.00  | 2.00  | 11229.00 | 25.72 | 0.00 | 25.04 | 3.75  | 4.07 | 7713.17  | 5799.14 |
| 19.064 | 2112.00 | 0.00  | 0.00  | -3.70 | 11229.00 | 26.43 | 0.00 | 26.49 | 3.73  | 3.50 | 12151.37 | 5813.76 |
| 19.534 | 1426.00 | 0.00  | 0.00  | 0.90  | 11229.00 | 26.69 | 0.00 | 26.77 | 1.91  | 2.98 | 11884.11 | 8127.03 |
| 20.054 | 3802.00 | 0.00  | 0.00  | 2.70  | 11229.00 | 27.21 | 0.00 | 27.28 | 2.25  | 3.08 | 13085.77 | 7485.25 |
| 20.744 | 5643.00 | 0.00  | 0.00  | 2.10  | 11229.00 | 28.07 | 0.00 | 28.25 | 5.64  | 4.85 | 8038.36  | 4726.43 |
| 20.855 | 590.00  | 0.00  | 0.00  | 2.10  | 11229.00 | 28.32 | 0.00 | 28.43 | 3.15  | 4.06 | 6848.10  | 6328.92 |
| 20.922 | 353.00  | 0.00  | 0.00  | 4.90  | 11229.00 | 28.45 | 0.00 | 28.70 | 8.09  | 4.93 | 6896.40  | 3947.08 |
| 20.925 | 14.00   | 23.50 | 22.30 | 4.90  | 11229.00 | 28.53 | 0.00 | 28.76 | 7.69  | 4.82 | 7167.61  | 4049.73 |
| 20.934 | 50.00   | 0.00  | 0.00  | 4.90  | 11229.00 | 28.57 | 0.00 | 28.80 | 7.50  | 4.77 | 7296.90  | 4099.05 |
| 21.105 | 900.00  | 0.00  | 0.00  | 4.10  | 8988.00  | 28.97 | 0.00 | 29.00 | 1.65  | 2.72 | 13283.76 | 7007.03 |
| 21.645 | 2851.00 | 0.00  | 0.00  | 4.10  | 8988.00  | 29.23 | 0.00 | 29.28 | 2.23  | 3.19 | 11829.62 | 6019.79 |

Cities of Friendswood and League City  
Clear Creek Drainage Improvement Study  
Contract No. 55-41016

The following maps are not attached to this report. They are located in the official file and may be copied upon request.

Exhibit 3 - Subarea Delineations

Exhibit 4 - cross-sectional Layout

Exhibit 5 - Water Surface Profile Existing Conditions and Existing Conditions with Proposed Improvements

Exhibit 6 - 10 Year Floodplains

Please contact Research and Planning Fund Grants Management Division at (512) 463-7926 for copies.