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***Objections to Proposed Lake Ringgold:***

**SENSITIVITY OF PROPOSED LAKE RINGGOLD DAM SITE**

The elevation at the confluence of the Red River and Little Wichita River is 776.83'.

The United States Geological Survey (USGS) website shows peak streamflow and gage height data for the USGS site #07315500 *Red River Near Terral, OK* from 1935 – 2020. This site is approximately 3 miles or less downstream from where the Red River and Little Wichita River meet. In the 85 years of data shown, the gage height was over 20' twenty-eight times including three times over 30' with the high for that period of 33.6' on 10/22/1983.

A 33.6' gage height where the Red River and Little Wichita River meet would make for a top of water elevation of 810.43'.

All three instances of there being a 30+' gage height also recorded streamflows of 210,000 – 236,000 cfs.

The current FM2332 bridge over the Little Wichita River is very close to the proposed dam site and is 639.1 yards or just over 1/3 of a mile from the Red River.

The dam site is too close to an uncontrolled river.

**LAKE RINGGOLD SITE PREVIOUSLY REJECTED**

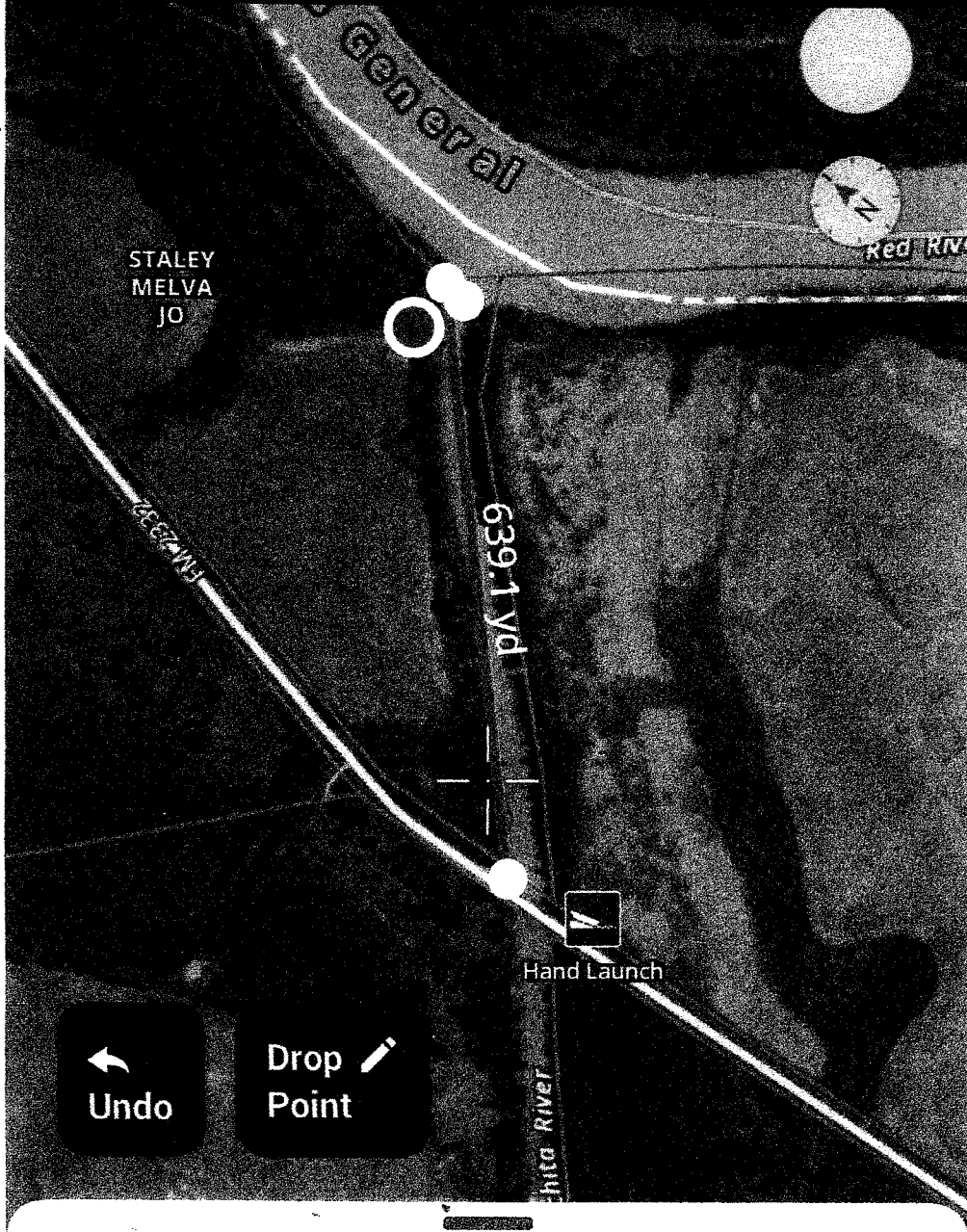
In the 1960's, the Wichita Falls Commissioners asked for an independent engineering firm to investigate the sustainability of the Lake Ringgold dam site. The results showed a high chance of dam failure so Lake Arrowhead was built instead.

1:40

LTE



# Add Line



Undo

Drop Point

Line Name

## Line 02/05/21 13:39



12

Byers

Ryan

32

25

2332

CLAY

Red

Henrietta

Ringgold

82

15

✈

✈

✈

✈

✈

287

29

81

19

Monticello

Bellefonte

**PEAK STREAMFLOW**  
**USGS 07315500 RED RIVER NEAR TERRAL, OK**

Agency	USGS Station Number	Date of Peak Streamflow	Annual Peak Streamflow		Gage Height		Date of Max Gage Ht for Water Yr	Max Gage Ht for Water Yr (Feet)
			(CFS)	Code	(Feet)	Code		
<b>USGS</b>	<b>7315500</b>	<b>5/19/1935</b>			<b>27.20</b>			
USGS	7315500	5/24/1938	43,700	6	17.85			
USGS	7315500	6/23/1939	43,000	6	18.14			
USGS	7315500	7/2/1940	22,400	6	16.62			
<b>USGS</b>	<b>7315500</b>	<b>6/8/1941</b>	<b>197,000</b>	<b>6</b>	<b>28.12</b>			
<b>USGS</b>	<b>7315500</b>	<b>10/31/1941</b>	<b>91,000</b>	<b>6</b>	<b>21.45</b>			
USGS	7315500	5/29/1943	43,500	6	17.58			
USGS	7315500	6/16/1944	38,700	6	17.20			
USGS	7315500	4/17/1945	27,100	1,6				
USGS	7315500	10/1/1945	66,200	6	19.62			
<b>USGS</b>	<b>7315500</b>	<b>5/19/1947</b>	<b>82,000</b>	<b>6</b>	<b>20.14</b>			
USGS	7315500	6/25/1948	18,000	6	16.27			
USGS	7315500	5/21/1949	33,700	6	18.00			
USGS	7315500	5/12/1950	53,800	6	18.82			
<b>USGS</b>	<b>7315500</b>	<b>5/19/1951</b>	<b>164,000</b>	<b>6</b>	<b>26.68</b>			
USGS	7315500	5/19/1952	30,300	6	17.00			
USGS	7315500	8/20/1953	13,000	6	14.87			
<b>USGS</b>	<b>7315500</b>	<b>5/14/1954</b>	<b>85,800</b>	<b>6</b>	<b>21.42</b>			
<b>USGS</b>	<b>7315500</b>	<b>5/21/1955</b>	<b>109,000</b>	<b>6</b>	<b>22.44</b>			
<b>USGS</b>	<b>7315500</b>	<b>10/7/1955</b>	<b>111,000</b>	<b>6</b>	<b>23.30</b>			
<b>USGS</b>	<b>7315500</b>	<b>6/4/1957</b>	<b>110,000</b>	<b>6</b>	<b>22.72</b>			
USGS	7315500	5/4/1958	16,700	6	15.27			
USGS	7315500	6/24/1959	35,200	6	17.22			
USGS	7315500	10/6/1959	47,000	6	17.75			
<b>USGS</b>	<b>7315500</b>	<b>10/20/1960</b>	<b>72,900</b>	<b>6</b>	<b>20.42</b>			
USGS	7315500	6/11/1962	45,800	6	18.62			
USGS	7315500	6/2/1963	31,200	6	16.35			
USGS	7315500	9/24/1964	11,400	6	14.31			
USGS	7315500	9/23/1965	35,400	6	19.95			
<b>USGS</b>	<b>7315500</b>	<b>10/21/1965</b>	<b>52,000</b>	<b>6</b>	<b>20.72</b>			
USGS	7315500	4/13/1967	38,700	6	17.46			
USGS	7315500	6/4/1968	41,400	6	19.61			
USGS	7315500	9/23/1969	45,700	6	18.09			
USGS	7315500	9/24/1970	13,200	6	14.87			
USGS	7315500	8/16/1971	30,000	6	18.43			

**PEAK STREAMFLOW**  
**USGS 07315500 RED RIVER NEAR TERRAL, OK**

Agency	USGS Station Number	Date of Peak Streamflow	Annual Peak Streamflow		Gage Height		Date of Max Gage Ht for Water Yr	Max Gage Ht for Water Yr (Feet)
			(CFS)	Code	(Feet)	Code		
USGS	7315500	5/14/1972	31,800	6	17.64			
<b>USGS</b>	<b>7315500</b>	<b>11/2/1972</b>	<b>48,400</b>	<b>6</b>	<b>21.24</b>			
USGS	7315500	9/27/1974	34,000	6	18.50			
<b>USGS</b>	<b>7315500</b>	<b>5/25/1975</b>	<b>53,300</b>	<b>6</b>	<b>20.85</b>			
USGS	7315500	9/15/1976	19,700	6	16.57			
USGS	7315500	5/23/1977	35,400	6	18.60			
USGS	7315500	6/8/1978	35,500	6	18.62			
USGS	7315500	6/11/1979	30,800	6	17.89			
USGS	7315500	6/2/1980	40,100	6	19.06			
USGS	7315500	6/5/1981	33,600	6	18.90			
<b>USGS</b>	<b>7315500</b>	<b>10/14/1981</b>	<b>58,000</b>	<b>6</b>	<b>21.31</b>			
USGS	7315500	5/23/1983	15,200	6	16.97			
<b>USGS</b>	<b>7315500</b>	<b>10/22/1983</b>	<b>210,000</b>	<b>6</b>	<b>33.60</b>			
<b>USGS</b>	<b>7315500</b>	<b>6/8/1985</b>	<b>62,600</b>	<b>6</b>	<b>20.94</b>			
<b>USGS</b>	<b>7315500</b>	<b>10/20/1985</b>	<b>56,000</b>	<b>6</b>	<b>20.13</b>			
<b>USGS</b>	<b>7315500</b>	<b>5/30/1987</b>	<b>225,000</b>	<b>6</b>	<b>32.65</b>			
USGS	7315500	9/20/1988	35,300	6	17.49			
<b>USGS</b>	<b>7315500</b>	<b>6/15/1989</b>	<b>65,400</b>	<b>6</b>	<b>20.22</b>			
<b>USGS</b>	<b>7315500</b>	<b>5/4/1990</b>	<b>115,000</b>	<b>6</b>	<b>23.78</b>			
<b>USGS</b>	<b>7315500</b>	<b>6/5/1991</b>	<b>89,500</b>	<b>6</b>	<b>21.79</b>			
<b>USGS</b>	<b>7315500</b>	<b>12/21/1991</b>	<b>107,000</b>	<b>6</b>	<b>22.48</b>			
<b>USGS</b>	<b>7315500</b>	<b>5/10/1993</b>	<b>84,100</b>	<b>6</b>	<b>21.14</b>			
USGS	7315500	5/29/1994	22,700	6	14.76			
<b>USGS</b>	<b>7315500</b>	<b>6/7/1995</b>	<b>236,000</b>	<b>6</b>	<b>30.56</b>			
USGS	7315500	9/6/1996	19,100	6	14.43			
USGS	7315500	4/28/1997	46,200	6	18.92			
<b>USGS</b>	<b>7315500</b>	<b>3/18/1998</b>	<b>99,400</b>	<b>6</b>	<b>22.32</b>			
USGS	7315500	6/27/1999	13,800	6	14.02			
USGS	7315500	3/25/2000	20,000	6	14.46			
USGS	7315500	10/27/2000	69,800	6	19.81			
USGS	7315500	4/14/2002	15,800	6	13.92			
USGS	7315500	6/8/2003	13,600	6	14.32			
USGS	7315500	3/6/2004	21,300	6	14.37			
USGS	7315500	11/18/2004	35,400	6	16.46			
USGS	7315500	10/10/2005	5,580	6	11.50			

**PEAK STREAMFLOW**  
**USGS 07315500 RED RIVER NEAR TERRAL, OK**

Agency	USGS Station Number	Date of Peak Streamflow	Annual Peak Streamflow		Gage Height		Date of Max Gage Ht for Water Yr	Max Gage Ht for Water Yr (Feet)
			(CFS)	Code	(Feet)	Code		
USGS	7315500	7/1/2007	102,000	6	24.00			
USGS	7315500	8/19/2008	40,100	6	17.50			
USGS	7315500	5/1/2009	64,100	6	18.50			
USGS	7315500	4/19/2010	31,000	6	14.81	2	7/12/2010	17.52
USGS	7315500	5/22/2011	7,800	6	11.82			
USGS	7315500	4/5/2012	12,000	6	13.41			
USGS	7315500	7/29/2013	6,640	6	12.72			
USGS	7315500	7/19/2014	14,000	6	14.62			
USGS	7315500	5/27/2015	83,200	6	24.14			
USGS	7315500	4/19/2016	49,600	6	20.81	2	4/19/2016	20.87
USGS	7315500	9/28/2017	39,300	6	17.47			
USGS	7315500	10/7/2017	25,600	6	14.96	2	9/23/2018	15.07
USGS	7315500	5/31/2019	36,800	6	18.23			
USGS	7315500	3/20/2020	34,600	6	17.94			
USGS	7315500	6/30/2021	33,800	6	17.76			
<b>Gage Height over 20 feet</b>					<b>Guage Height over 30 feet</b>			

**Peak Streamflow-Qualification Codes(peak cd):**

- 1 ... Discharge is a Maximum Daily Average**
- 2 ... Discharge is an Estimate
- 3 ... Discharge affected by Dam Failure
- 4 ... Discharge less than indicated value,  
which is Minimum Recordable Discharge at this site
- 5 ... Discharge affected to unknown degree by  
Regulation or Diversion
- 6 ... Discharge affected by Regulation or Diversion**
- 7 ... Discharge is an Historic Peak
- 8 ... Discharge actually greater than indicated value
- 9 ... Discharge due to Snowmelt, Hurricane,  
Ice-Jam or Debris Dam breakup
- A ... Year of occurrence is unknown or not exact
- Bd ... Day of occurrence is unknown or not exact
- Bm ... Month of occurrence is unknown or not exact
- C ... All or part of the record affected by Urbanization,  
Mining, Agricultural changes, Channelization, or other
- F ... Peak supplied by another agency

**PEAK STREAMFLOW**  
**USGS 07315500 RED RIVER NEAR TERRAL, OK**

Agency	USGS Station Number	Date of Peak Streamflow	Annual Peak Streamflow		Gage Height		Date of Max Gage Ht for Water Yr	Max Gage Ht for Water Yr (Feet)
			(CFS)	Code	(Feet)	Code		

O ... Opportunistic value not from systematic data collection

R ... Revised

**Gage height qualification codes(gage ht cd,ag gage ht cd):**

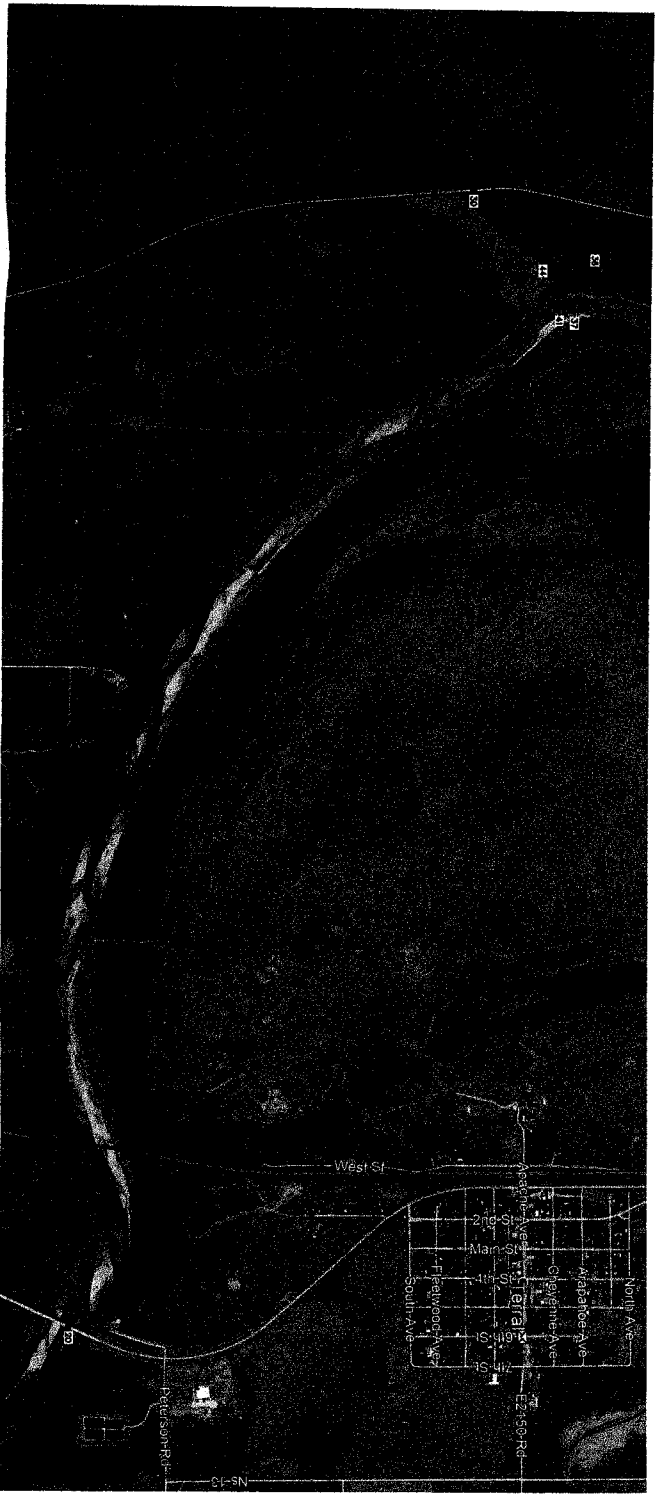
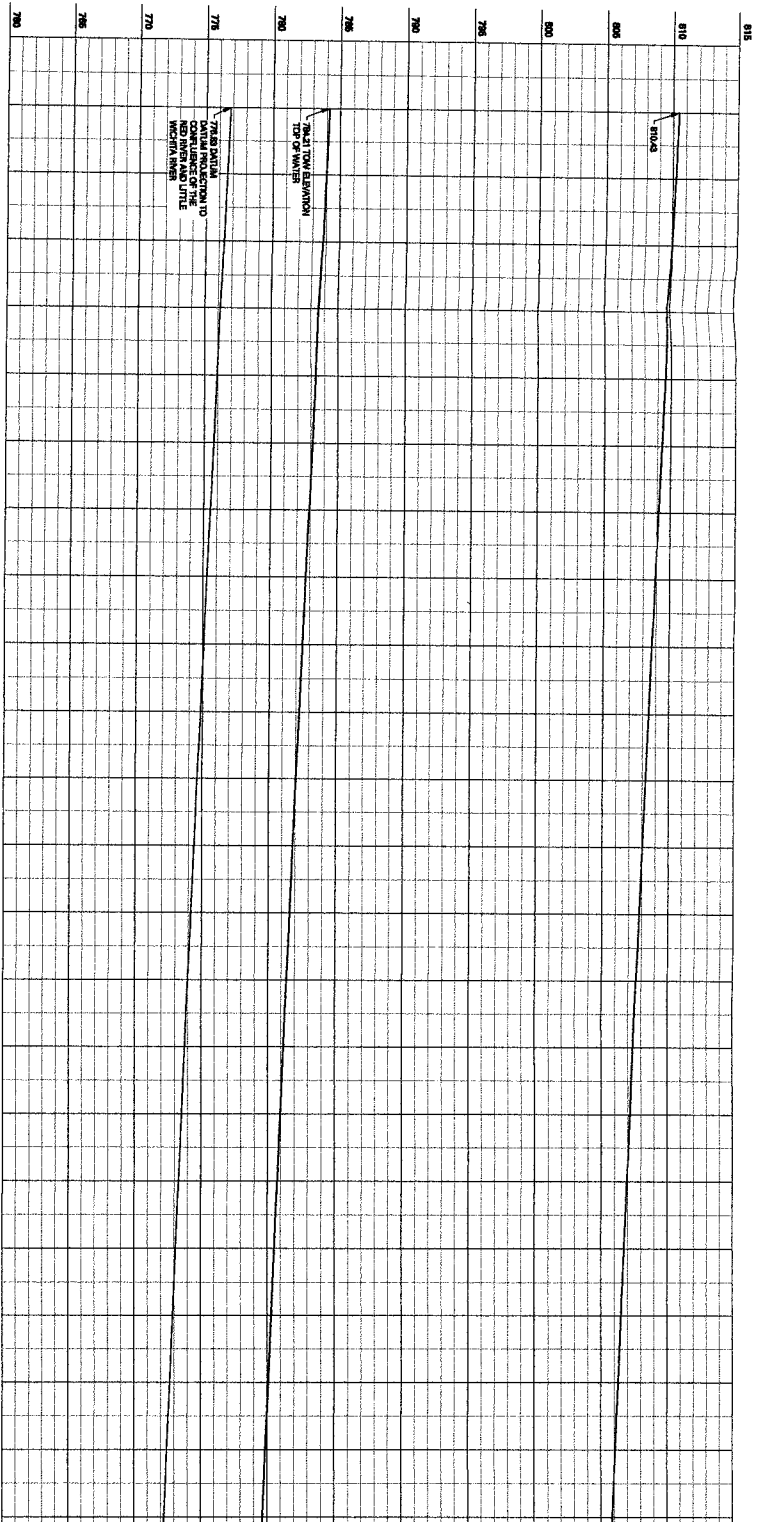
- 1 ... Gage height affected by backwater
- 2 ... **Gage height not the maximum for the year**
- 3 ... Gage height at different site and(or) datum
- 4 ... Gage height below minimum recordable elevation
- 5 ... Gage height is an estimate
- 6 ... Gage datum changed during this year
- 7 ... Debris, mud, or hyper-concentrated flow
- 8 ... Gage height tidally affected
- Bd ... Day of occurrence is unknown or not exact
- Bm ... Month of occurrence is unknown or not exact
- F ... Peak supplied by another agency
- R ... Revised

**FIELD DEFINITIONS:**

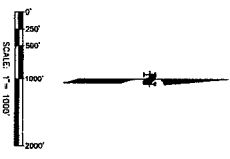
- agency\_cd** Agency Code
- site\_no** USGS station number
- peak\_dt** Date of peak streamflow (format YYYY-MM-DD)
- peak\_tm** Time of peak streamflow (24 hour format, 00:00 - 23:59)
- peak\_va** Annual peak streamflow value in cfs
- peak\_cd** Peak Discharge-Qualification codes (see explanation below)
- gage\_ht** Gage height for the associated peak streamflow in feet
- gage\_ht\_cd** Gage height qualification codes
- year\_last\_pk** Peak streamflow reported is the highest since this year
- ag\_dt** Date of maximum gage-height for water year (if not concurrent with peak)
- ag\_tm** Time of maximum gage-height for water year (if not concurrent with peak)
- ag\_gage\_ht** maximum Gage height for water year in feet (if not concurrent with peak)
- ag\_gage\_ht\_cd** maximum Gage height code

**Data taken from:**

[https://nwis.waterdata.usgs.gov/nwis/peak?site\\_no=07315500&agency\\_cd=USGS&format=rdb](https://nwis.waterdata.usgs.gov/nwis/peak?site_no=07315500&agency_cd=USGS&format=rdb)



Point #	Elevation	Northing	Easting
44	784.354	7374137.3890	2124729.75
41	784.490	7374181.8280	2124776.68
37	784.258	7374291.3090	2124788.13
36	784.171	7374308.7040	2124795.57
30	811.804	7372708.9940	2123359.54
20	832.889	7368709.2520	2140220.28



DATE: 11/04/2021  
 DRAWN BY: WALT  
 CHECKED BY: JH  
 APPROVED BY: JH  
 PROJECT: 11-040  
 SCALE: VERT  
 NO.



