



July 13, 2026

City of Reno

Community Development Department
1 East 1st Street
Reno, NV 89501

Subject: Meridian 120S Villages 1 & 2 - Sanitary Sewer

To Whom It May Concern:

The purpose of this letter is to provide justification that the sanitary sewer that is proposed with Meridian 120S Villages 1 & 2 is in conformance with the flows and data provided in the master sanitary sewer report by Summit Engineering titled Sanitary Sewer Report for Cabela's Retail Store (Revised) dated May, 2007. This report has been provided for reference as **Appendix A**.

According to the master sanitary sewer report contributing area map, the expanded service area that Villages 1 & 2 are part of was anticipated to contribute a total of 2.04 MGD. The final lot count for Villages 1 & 2 came out to be 75 dwelling units. Using the standard equation for calculating flow values from the City of Reno, we attain the following:

$$Q = \# \text{ of Units} * \text{Peaking Factor} * \text{Per Capita Contributions}$$

Where:

Q = Estimated peak sewer flows (gal/day).

Peaking Factor = 3.0 capita/dwelling unit for Single Family Residential

Per Capita Contributions = 250 gal per capita per day for 8" mains

(Per 2026 Reno Public Works Design Manual)

Using this equation, we obtain a value of 56,250 GPD or 0.056 MGD. This value is 2.8% of the original overall anticipated value from the Summit Engineering report and 3.1% of the anticipated peak flow from the Meridian 120S development based on a previous analysis done by Wood Rodgers. Since the anticipated peak flow from the Wood Rodgers analysis is 0.2 MGD lower than calculated in the sanitary sewer report from Summit Engineering, the existing sewer main will have sufficient capacity to handle the expected flows from Meridian 120S Villages 1 & 2. This peak flow analysis has been provided for reference as **Appendix B**.

If you have any questions or concerns, please contact me at 720-465-5321 or e-mail me at kcastle@woodrogers.com.

Sincerely,

WOOD RODGERS, INC

Kyle Castle, P.E.



Appendix A

07-07815

REV

SANITARY SEWER REPORT
FOR
CABELA'S RETAIL STORE
(REVISED)

RECEIVED

MAY 13 2007

CITY OF RENO
Community Development Dept.

Prepared for:

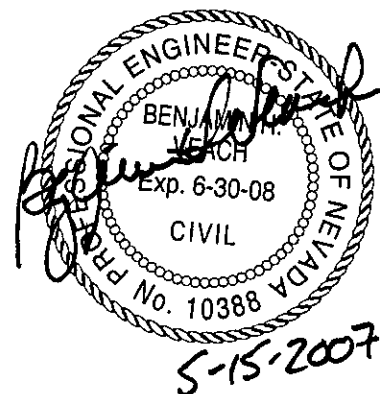
Cabela's Retail Store
1 Cabela Drive
Sidney, NE 69160

Prepared by:



5405 Mae Anne Avenue
Reno, NV 89523
(775) 747-8550

May, 2007



PROJECT OVERVIEW

The following sewer report represents the sanitary sewer analysis for the Cabela's Retail Store site located in Reno, just south of Verdi, Nevada. This report is being prepared in support of the development of the proposed private sanitary sewer serving the Cabela's Retail Store. The sanitary sewer that serves the Cabela's Retail Store ties into a proposed 21" sanitary sewer main that traverses the east side of the Cabela's site, originating just north of Interstate 80, south of the Cabela's Retail Store. The 21" main flows north, connecting to the Lawton-Verdi Sanitary Sewer Interceptor near the intersection of Boomtown Road and Cabela Drive, where the sewer flows to the Truckee Meadows Water Reclamation Facility. It is the intent of this study to substantiate the design of the private sanitary sewer system serving the Cabela's Retail Store.

PROPOSED DEVELOPED AREA

The Cabela's Retail Store is an approved commercial development that is located in northwest Reno, Nevada, immediately south of Verdi. As approved, the Cabela's Retail Store site will cover approximately 27.77 acres of commercially zoned property. The property is specified as APN 038-870-06 and is located in the portion of the West ½ of Section 16, Township 19 North, Range 18 East, M.D.M. A vicinity map of the area may be found in this report in Appendix A, Figure 1. The Assessor's Record of Survey Map, #4692, may also be found in Appendix A, Figure 2.

EXISTING LAND USE CONDITIONS AND ZONING

The Cabela's Retail Store site is relatively square in shape with a slight irregularity on the south-east corner of the parcel due to the existence of another smaller parcel (Boomtown Truck Stop). The Boomtown Truck Stop Parking Lot and the Boomtown Employee Parking Lot currently occupy over half of the south end of the parcel. A majority of the parcel gradually slopes to the northwest at approximately 2½% to 3%; however, there is a break in the slope at the north end of the parcel where the slope steepens to 15% to 25% or more. At the bottom of the 15% to 25% slope is a recently abandoned effluent pond and a flat, open field, previously used for livestock grazing.

The 27.77 acre parcel planned for the Cabela's Retail Store site is currently surrounded by the following land uses:

- North: Open Field/Deserted Farmland
- East: Chevron Gas Station
- South: Interstate 80
- West: Native Sagebrush and Vegetation

The existing Chevron contributes sewer flows to the recently constructed Lawton-Verdi Sewer Interceptor at the Boomtown-Garson Road lateral. Much of the land adjacent to the parcel to the north and west is currently undeveloped. Known future contributions from the south have been included in this report. To serve the area south of Interstate 80, a 21" public sanitary sewer line is to be constructed traversing the Cabela's site concurrently with the construction of Cabela's. Upon development, the proposed Cabela's store is projected to contribute 0.01 cubic feet per second (cfs) of sanitary sewer flows at peak times. For additional information with respect to future contributions to the 21" sanitary sewer line, refer to the demand analysis section of this report.

Based on the City of Reno zoning map, the Cabela's site is zoned for two types of commercial land use, Arterial Commercial (AC), and Hotel-Casino (HC). The Hotel-Casino zoned area occupies approximately two-thirds of the southern end of the parcel (approximately 17.7 acres). The Arterial Commercial zoned area occupies the remainder of the northern end of the parcel (approximately 10 acres).

A geotechnical investigation was prepared by Summit Engineering (April 5, 2005) in support of the Cabela's development. The geotechnical investigation established findings of excellent foundation support, and the land is suitable for the planned development when prepared according to the specifications.

Flood zoning information was investigated for the Cabela's Retail Store site. This site has been mapped by the Federal Emergency Management Agency (F.E.M.A. - FIRM map #32031C2963 E & #32031C2964 E). The maps for the site show that the property is located in Zone X, which are areas described to be outside of the 500-year flood plain. Copies of the FIRM maps are located in Appendix A, Figures 3 and 4.

DEMAND ANALYSIS

To estimate the future demand for the design of the public sanitary sewer system, Summit Engineering reviewed the Preliminary Sanitary Sewer Report from the Mortensen Development Standards Handbook (dated September 23, 2003) and the Lawton-Verdi Sanitary Sewer Interceptor Feasibility Study. The City of Reno has reviewed both the Preliminary Sanitary Sewer Report from the Mortensen Development Standards Handbook and the Lawton-Verdi Sanitary Sewer Interceptor Feasibility Study. This project is in substantial conformance with these documents.

Included in the Preliminary Sanitary Sewer Report from the Mortensen Development Standards Handbook is a sewer routing map indicating the proposed areas, or zones, of development used in the sewer demand analysis. Three zones (1, 2, and 3) were established on the sewer routing map for analysis. The total acreage, the proposed lot acreage, and the proposed general placement of the sewer lines, along with the generated peak sewer discharge flows are provided for each zone. Sewage flow generation spreadsheets for each zone, along with proposed sewer line sizing information, and hydraulic flow calculations are also included in the study. Cabela's Retail Store site lies in Zone 2, while the expanded service area south of Interstate 80 lies in Zone 1. The expanded service area is expected to generate a total peak sewer discharge of 3.14 cfs. Cabela's Retail Store site, with a drainage fixture unit count of 146 units (Figure 5), will generate a total peak sewer discharge of 3,285 gallons per day (GPD) (0.01 cfs). Existing development that lies in Zone 2 (Boomtown) is already connected to the Lawton-Verdi Sanitary Sewer at the Garson Road branch. Proposed sites that lie in Zone 2, are expected to tie-into the Lawton-Verdi Sanitary Sewer downstream from the Cabela's site. Therefore, the total peak sewer discharge for Zone 1 and the Cabela's site will be 3.15 cfs (2.04 million gallons per day (MGD)). The flows generated are proposed to flow north into the Lawton-Verdi Sanitary Sewer Interceptor via the 21" sanitary sewer traversing the Cabela's site.

Please refer to the Preliminary Sanitary Sewer Report from the Mortensen Development Standards Handbook for peak sewage discharge flow generation and other information. A copy of this report may be obtained from Summit Engineering's office.

The Cabela's Retail Store site will produce domestic type waste. Industrial type wastes such as cooling waters, wastes from pretreatment devices, or other types of industrial process wastes will not be generated from the site. Special areas such as hospitals, schools, or large office buildings are not planned for the area; however, future potential development of any of the surrounding areas is imminent, as discussed in the Mortensen Development Standards Handbook.

DESIGN STANDARDS

The City of Reno Public Works Design Manual (June, 2006 Revision), the Preliminary Sanitary Sewer Report for the Mortensen Development Standards Handbook, and the Lawton-Verdi Sanitary Sewer Interceptor Feasibility Study were used in designing the public sanitary sewer for the extended service area. The following standards and data were used in the design:

- Manning's Roughness Coefficient (n) of 0.014.
- Peak Sewage Flow of 3.15 cfs (2.04 MGD).
- Minimum mean velocity of not less than 2 feet per second, based on capacities of calculated peak half-full flows.
- Maximum distance of 350 linear feet between manholes.
- Access easements for maintenance and repair will be granted, with dedication of all proposed public improvements, to the City of Reno.

SEWER ANALYSIS & CAPACITY

The proposed private sanitary sewer system for the Cabela's Retail Store has been analyzed and designed with adequate capacity to convey the sewerage generated by the project. The Mechanical Engineering firm, Greenmen-Pedersen, Inc., has produced and submitted fixture count units for Cabela's, which were designed to current Uniform Plumbing Code standards. Based on a fixture unit count of 146 units, a discharge of 3,285 GPD (0.01 cfs) of sewage will be generated at peak flows. To accommodate these flows, a proposed private 8" diameter SDR 35 PVC sanitary sewer pipe will run from the building to the public sanitary sewer pipe for an approximate total of 153 linear feet. The sewer line will run in a north easterly direction with varying slopes of 2.0% to 9.75%. Three clean outs will be constructed along the length of the run at different locations between the building and proposed Sanitary Sewer Manhole (SSMH) #4. Cleanout #3 (CO #3) will intercept flow from a nearby grease interceptor and introduce it

Cabela's Retail Store
and Roadway Network

Sanitary Sewer Report – Revised
May, 2007

to the proposed private sewer line. The grease interceptor obtains flows from Cabela's, which are included in the total discharge. Flow from CO #3 will then be carried to the proposed public sewer line. At peak demand, the 8" diameter sanitary sewer service line will be approximately 4% full with a minimum pipe slope of 2.0%. These calculations were conducted in Haestad Methods, Flowmaster, and a copy of the calculations is shown in Appendix A, Figure 6.

As mentioned previously, future flows connecting from the extended service area on the south side of Interstate 80 and from the Cabela's site are anticipated to generate a peak sewage flow of 3.15 cfs (2.04 MGD). A proposed 21" diameter SDR 35 PVC public sanitary sewer pipe will convey these flows approximately 1000 feet to the Lawton-Verdi Sanitary Sewer Interceptor near the intersection of Boomtown Road and Cabela Drive. The 21" public sanitary sewer line will originate on the north side of Interstate 80, just south of the Cabela's building and is designed with slopes ranging between 0.5% and 6.8%. At peak demand, the 21" sanitary sewer line will run approximately 1/3 full in the 0.5% slope condition. These calculations were conducted in Haestad Methods, Flowmaster, and a copy of the calculations is shown in Appendix A, Figure 6. The proposed sewer pipe design for this area exceeds the peak flow capacity needed for the Cabela's project and for the future development of the extended service area. As designed and constructed, the Lawton-Verdi Sanitary Sewer Interceptor will also have the required capacity to convey the proposed and future peak demand flows to the Truckee Meadows Water Reclamation Facility. Access easements will be granted for maintenance and repair, with dedication of all improvements being made to the City of Reno.

CONCLUSION

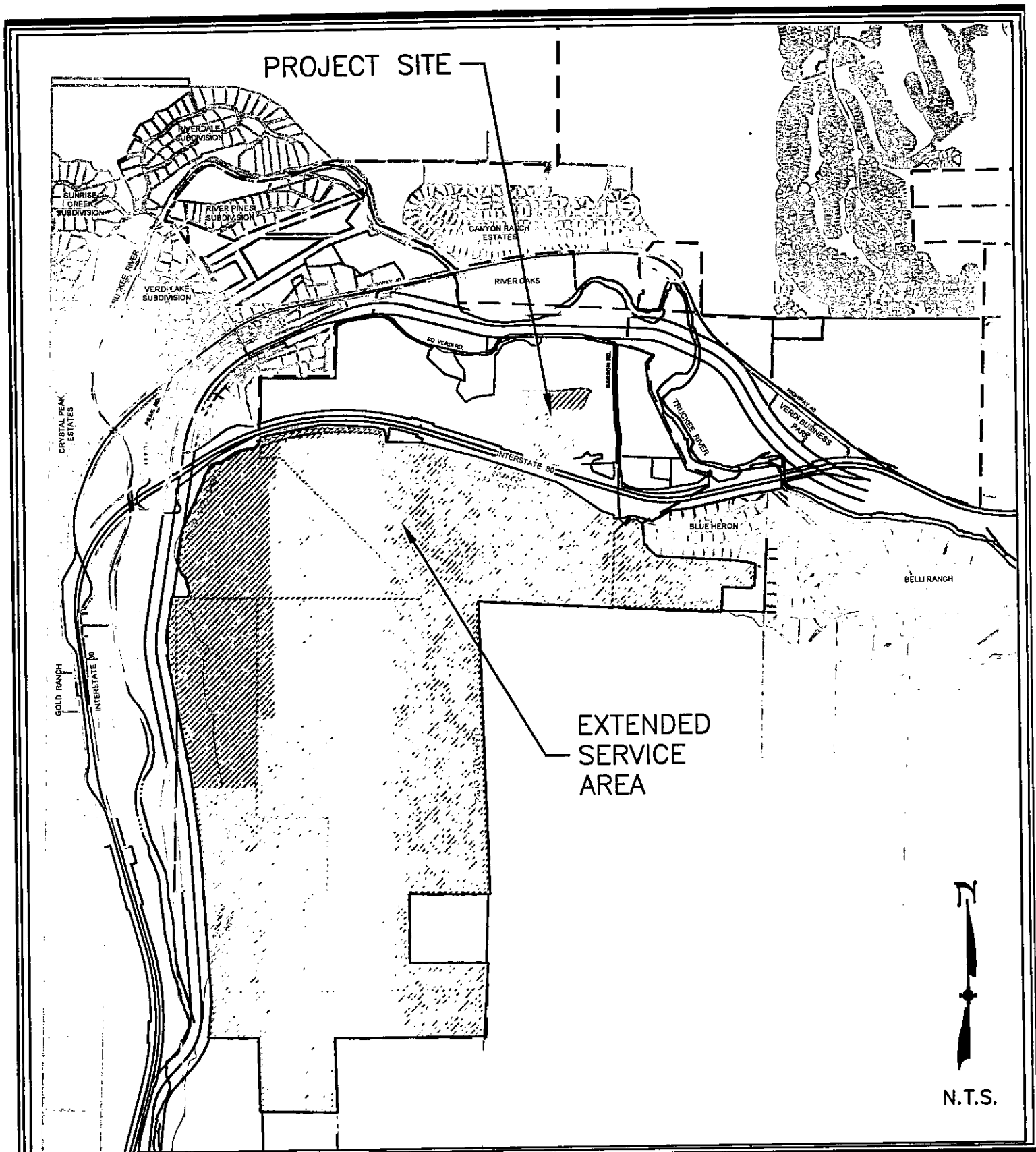
Based on the Preliminary Sanitary Sewer Report from the Mortensen Development Standards Handbook, the Feasibility Study for the Lawton-Verdi Sanitary Sewer Interceptor, and the City of Reno Design Standards, the 21" sanitary sewer main has the capacity to accommodate the flows generated from the Cabela's site as well as future public peak sewer flow demands of the extended service area south of Interstate 80. The design of the proposed 21" sanitary sewer line, including alignment and depths, is available for review at Summit Engineering's Reno Office. Please feel free to contact Summit Engineering for any additional information that may be needed.



APPENDIX A

FIGURES 1-6





**CABELA'S RETAIL STORE
CITY OF RENO
VICINITY MAP**

**NOT TO SCALE
SANITARY SEWER REPORT
FIGURE 1
Copyright SUMMIT ENG 2007**



**SHEET
1
OF
1**

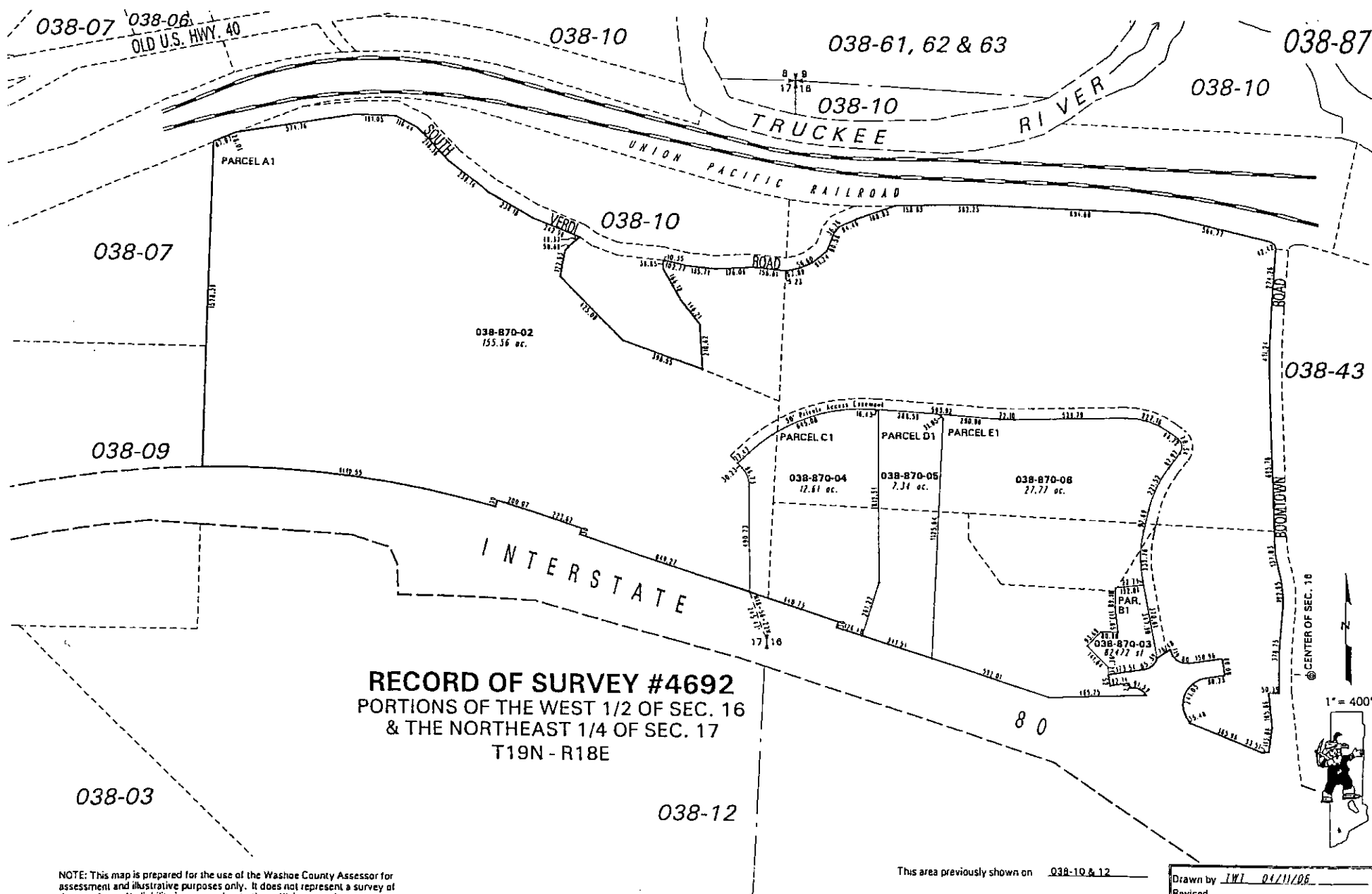


Figure 2

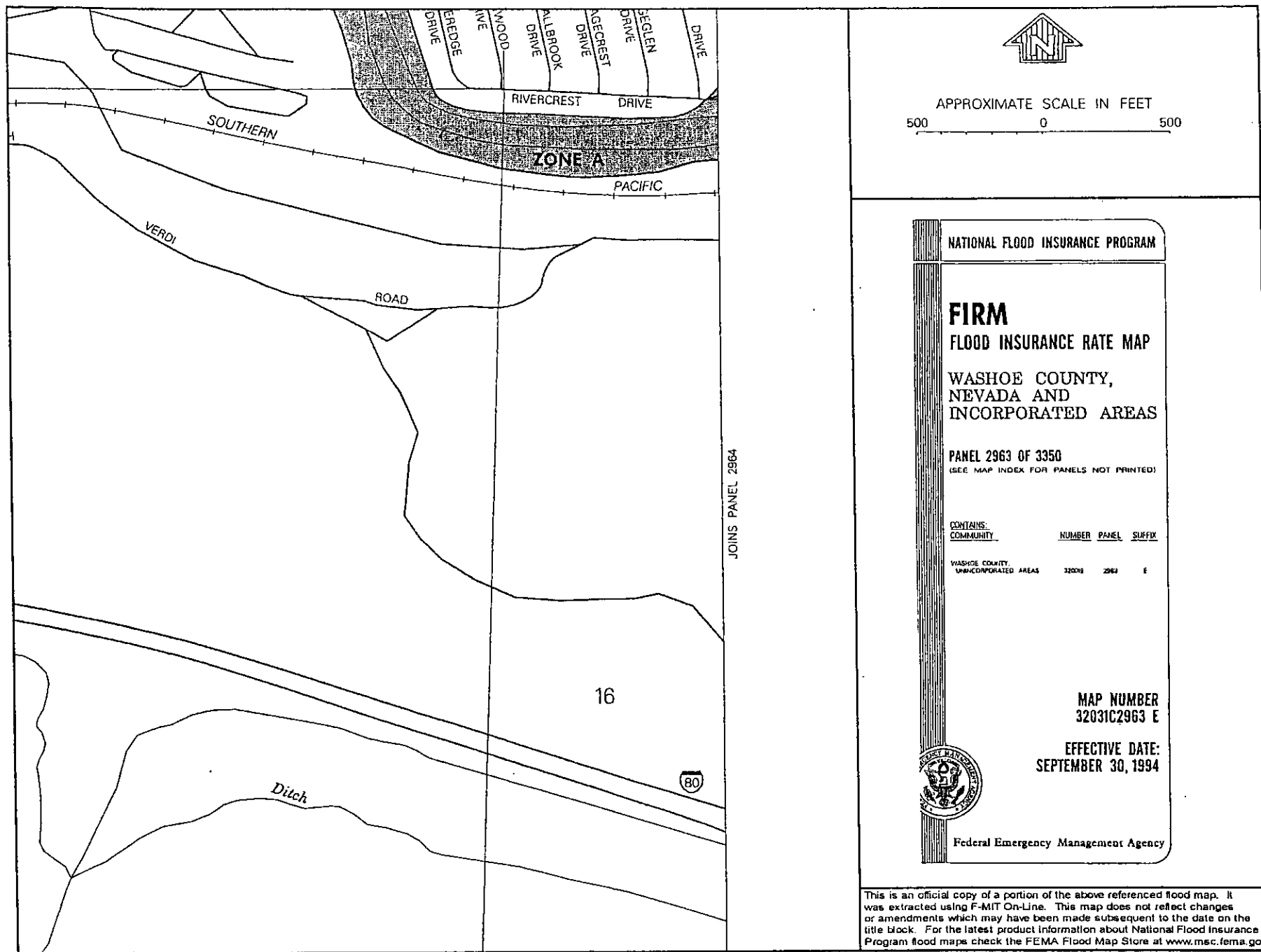


Figure 3

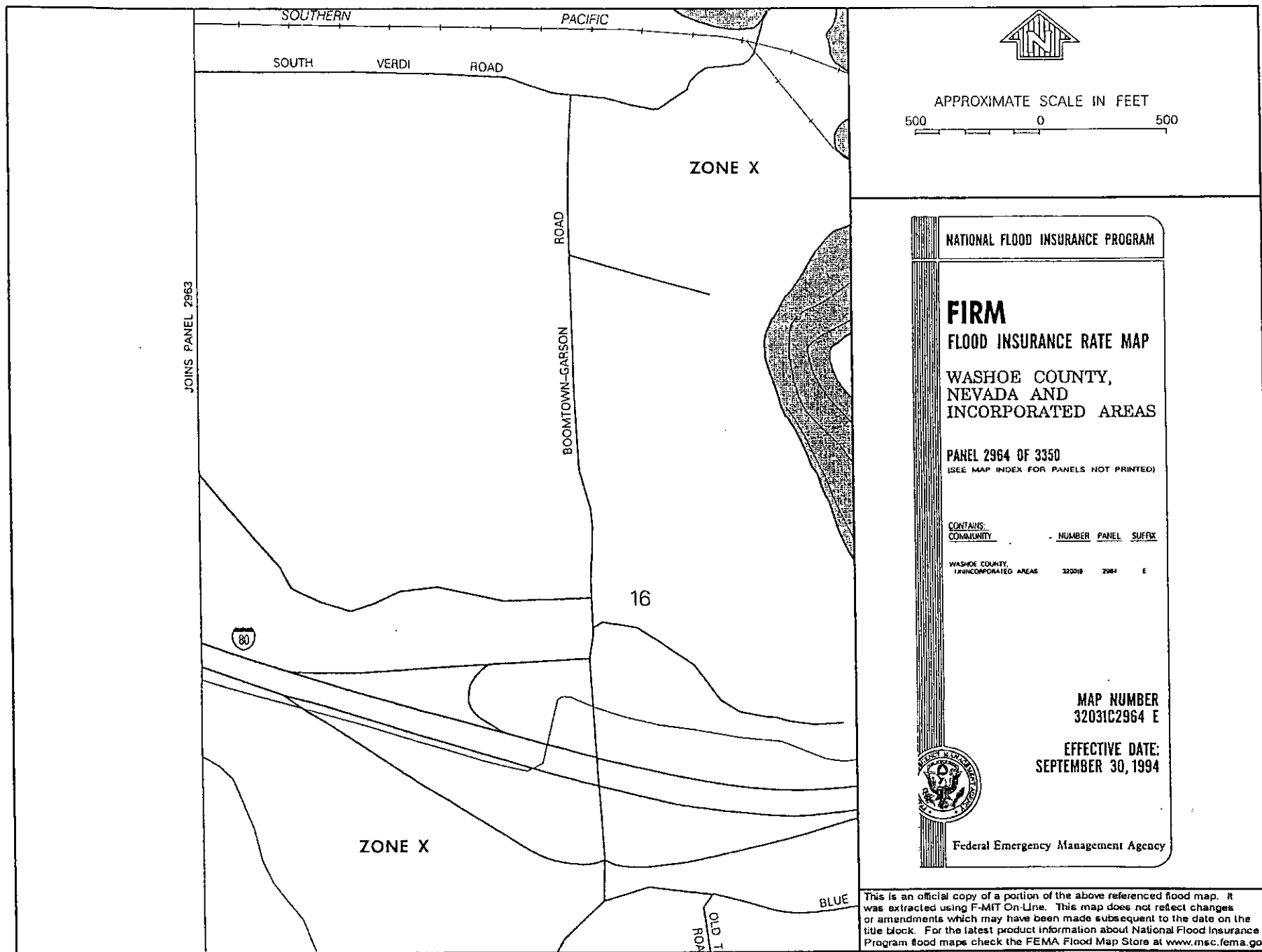


Figure 4

Figure 5

Project Name: Cabela's - Reno, NV
Project Number: SCR-2006076.00
Calculated by: Walt Janus

TYPE	NO.	DFU	TOTAL	WFU	TOTAL	CWFU	TOTAL	HWFU	TOTAL
Bathroom Group Private		5.00	0.00	3.60	0.00	2.70	0.00	1.50	0.00
Bathroom Group Public		8.00	0.00	8.00	0.00	6.00	0.00	3.00	0.00
Bathtub Private		2.00	0.00	1.40	0.00	1.00	0.00	1.00	0.00
Bathtub Public		2.00	0.00	4.00	0.00	3.00	0.00	3.00	0.00
Bar Sink		2.00	0.00	3.00	0.00	2.50	0.00	2.50	0.00
Bidet		1.00	0.00	2.00	0.00	1.50	0.00	1.50	0.00
Combination Sink and Tray		2.00	0.00	3.00	0.00	2.25	0.00	2.25	0.00
Combination Sink w/disposal		2.00	0.00	3.00	0.00	2.25	0.00	2.25	0.00
Dental unit or cuspidor		1.00	0.00	2.00	0.00	1.50	0.00	1.50	0.00
Dental lavatory		1.00	0.00	2.00	0.00	1.50	0.00	1.50	0.00
Drinking fountain		0.50	0.00	0.25	0.00	0.25	0.00		
Dishwashing machine, commercial	2	5.00	10.00	3.00	6.00			3.00	6.00
Electric Water Cooler	4	0.50	2.00	0.25	1.00	0.25	1.00		
Floor drain	10	2.00	20.00		0.00	0.00	0.00		
Hose Bibb	10			1.00	10.00	1.00	10.00		
Kitchen sink, domestic	12	2.00	24.00	1.40	16.80	1.00	12.00	1.00	12.00
Kitchen sink, w/grinder	1	2.00	2.00	1.40	1.40	1.00	1.00	1.00	1.00
Laundry tray		2.00	0.00	1.40	0.00	1.00	0.00	1.00	0.00
Lavatory 1-1/4" Trap		1.00	0.00	0.70	0.00	0.50	0.00	0.50	0.00
Lavatory 1-1/2" Trap (Public)	11	1.00	11.00	2.00	22.00	1.50	16.50	1.50	16.50
Beauty / Barber		2.00	0.00	2.00	0.00	1.50	0.00	1.50	0.00
Shower stall, domestic		2.00	0.00	1.40	0.00	1.00	0.00	1.00	0.00
Shower (group) per head		2.00	0.00	4.00	0.00	3.00	0.00	3.00	0.00
Surgeon's Sink		3.00	0.00	2.00	0.00	1.50	0.00	1.50	0.00
Flushing rim sink with valve		8.00	0.00	10.00	0.00	10.00	0.00	2.25	0.00
Service sink standard trap	1	3.00	3.00	3.00	3.00	2.25	2.25	2.25	2.25
Sink		2.00	0.00	2.00	0.00	1.50	0.00	1.50	0.00
Mop sink	2	3.00	6.00	3.00	6.00	2.25	4.50	2.25	4.50
Urinal, public 3/4" flush valve	4	2.00	8.00	5.00	20.00	5.00	20.00		
Washing machine (residential)		2.00	0.00	1.40	0.00	1.00	0.00	1.00	0.00
Wash Sink (circular/multiple)		2.00	0.00	2.00	0.00	1.50	0.00	1.50	0.00
Water Closet, private, tank		3.00	0.00	2.20	0.00	2.20	0.00		
Water Closet, Public, Flush Valve	15	4.00	60.00	10.00	150.00	10.00	150.00		
Security Fixture									
Comby		6.00	0.00	10.00	0.00	10.00	0.00	1.50	0.00
Water Closet		6.00	0.00	10.00	0.00	10.00	0.00		
Urinal		8.00	0.00	10.00	0.00	10.00			
Lavatory		2.00	0.00	2.00	0.00	1.50	0.00	1.50	0.00
Shower		2.00	0.00	3.00	0.00	2.25	0.00	2.25	0.00
TOTAL			146.00	DFU	236.20	WFU	217.25	CWFU	42.25
					99	GPM	96	GPM	26
									GPM

Water Demand plus 10 percent plus 10 gpm for aquarium

GPM **119**

DRAINAGE FIXTURE UNITS (DFU) =

146.00

X 22.5 GALLONS PER DAY =
EFFLUENT / DAY (GALLONS)NOTE: Aquarium backwash 100 gpm maximum for
two minutes (200 gal/cycle), max. two cycles/day.

INCOMING SANITARY SEWER

4

* @ 1/8" SLOPE

ASSUME 80% OF WATER USE RETURNS TO SANITARY SEWER SYSTEM

2628.00 GPD

WATER FIXTURE UNITS (WFU) =

236.20

GALLONS PER MINUTE =

119

WATER METER SIZE

3.0

INCOMING SERVICE SIZE (INCHES) =

3.0

FRICTION LOSS IN PSI. PER 100 FT

1.59

BASIS C=140, CEMENT LINED DUCTILE IRON PIPE

FIGURE 6

FLOW CAPACITY CALCULATIONS



Worksheet for Circular Pipe - 8" Dia. from Cabela's

Project Description

Friction Method

Manning Formula

Solve For

Normal Depth

Input Data

Roughness Coefficient	0.014	
Channel Slope	0.02000	ft/ft
Diameter	8.00	in
Discharge	0.01	ft ³ /s

Results

Normal Depth	0.33	in
Flow Area	0.00	ft ²
Wetted Perimeter	0.27	ft
Top Width	0.27	ft
Critical Depth	0.03	ft
Percent Full	4.2	%
Critical Slope	0.01078	ft/ft
Velocity	1.02	ft/s
Velocity Head	0.02	ft
Specific Energy	0.04	ft
Froude Number	1.31	
Maximum Discharge	1.71	ft ³ /s
Discharge Full	1.59	ft ³ /s
Slope Full	0.00000	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	in
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	in
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	4.18	%
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s

Worksheet for Circular Pipe - 8" Dia. from Cabela's

GVF Output Data

Normal Depth	0.33	in
Critical Depth	0.03	ft
Channel Slope	0.02000	ft/ft
Critical Slope	0.01078	ft/ft

Worksheet for Circular Pipe - 21" Dia. - Flows from Zone 1

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Roughness Coefficient	0.014	
Channel Slope	0.00500	ft/ft
Diameter	21.00	in
Discharge	3.14	ft ³ /s

Results

Normal Depth	7.91	in
Flow Area	0.83	ft ²
Wetted Perimeter	2.31	ft
Top Width	1.70	ft
Critical Depth	0.64	ft
Percent Full	37.7	%
Critical Slope	0.00547	ft/ft
Velocity	3.79	ft/s
Velocity Head	0.22	ft
Specific Energy	0.88	ft
Froude Number	0.96	
Maximum Discharge	11.19	ft ³ /s
Discharge Full	10.40	ft ³ /s
Slope Full	0.00046	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	in
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	in
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	37.67	%
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s

Worksheet for Circular Pipe - 21" Dia. - Flows from Zone 1

GVF Output Data

Normal Depth	7.91	in
Critical Depth	0.64	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00547	ft/ft

Worksheet for Circular Pipe - 21" Dia. - Flow from Zone 1 and Cabela's

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Roughness Coefficient	0.014
Channel Slope	0.02000 ft/ft
Diameter	21.00 in
Discharge	3.15 ft ³ /s

Results

Normal Depth	5.52 in
Flow Area	0.50 ft ²
Wetted Perimeter	1.88 ft
Top Width	1.54 ft
Critical Depth	0.64 ft
Percent Full	26.3 %
Critical Slope	0.00547 ft/ft
Velocity	6.24 ft/s
Velocity Head	0.60 ft
Specific Energy	1.07 ft
Froude Number	1.92
Maximum Discharge	22.38 ft ³ /s
Discharge Full	20.81 ft ³ /s
Slope Full	0.00046 ft/ft
Flow Type	SuperCritical

GVF Input Data

Downstream Depth	0.00 in
Length	0.00 ft
Number Of Steps	0

GVF Output Data

Upstream Depth	0.00 in
Profile Description	
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.00 %
Normal Depth Over Rise	26.30 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s

Worksheet for Circular Pipe - 21" Dia. - Flow from Zone 1 and Cabela's

GVF Output Data

Normal Depth	5.52	in
Critical Depth	0.64	ft
Channel Slope	0.02000	ft/ft
Critical Slope	0.00547	ft/ft

Circular Pipe - 24" Dia. @ 0.12%, Below Tie-In to Lawton-Verdi Int.

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Roughness Coefficient	0.014
Channel Slope	0.00120 ft/ft
Diameter	24.00 in
Discharge	4.50 ft ³ /s

Results

Normal Depth	13.65 in
Flow Area	1.85 ft ²
Wetted Perimeter	3.42 ft
Top Width	1.98 ft
Critical Depth	0.75 ft
Percent Full	56.9 %
Critical Slope	0.00523 ft/ft
Velocity	2.44 ft/s
Velocity Head	0.09 ft
Specific Energy	1.23 ft
Froude Number	0.45
Maximum Discharge	7.83 ft ³ /s
Discharge Full	7.28 ft ³ /s
Slope Full	0.00046 ft/ft
Flow Type	SubCritical

GVF Input Data

Downstream Depth	0.00 in
Length	0.00 ft
Number Of Steps	0

GVF Output Data

Upstream Depth	0.00 in
Profile Description	
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.00 %
Normal Depth Over Rise	56.88 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s

Circular Pipe - 24" Dia. @ 0.12%, Below Tie-In to Lawton-Verdi Int.

GVF Output Data

Normal Depth	13.65	in
Critical Depth	0.75	ft
Channel Slope	0.00120	ft/ft
Critical Slope	0.00523	ft/ft



Appendix B



June 24, 2021

City of Reno Community Development Department

Attn. John Brusoe
1 East 1st Street
Reno, Nevada 89501

Subject: Meridian 120S Jack and Bore [NDOT Encroachment]

To Whom It May Concern:

The purpose of this letter is to provide justification for the sizing of the sanitary sewer main proposed in the Meridian 120S Jack and Bore submittal in relation to the Sanitary Sewer Report for Cabela's Retail Store by Summit Engineering dated 5/15/2007 (included with this submittal).

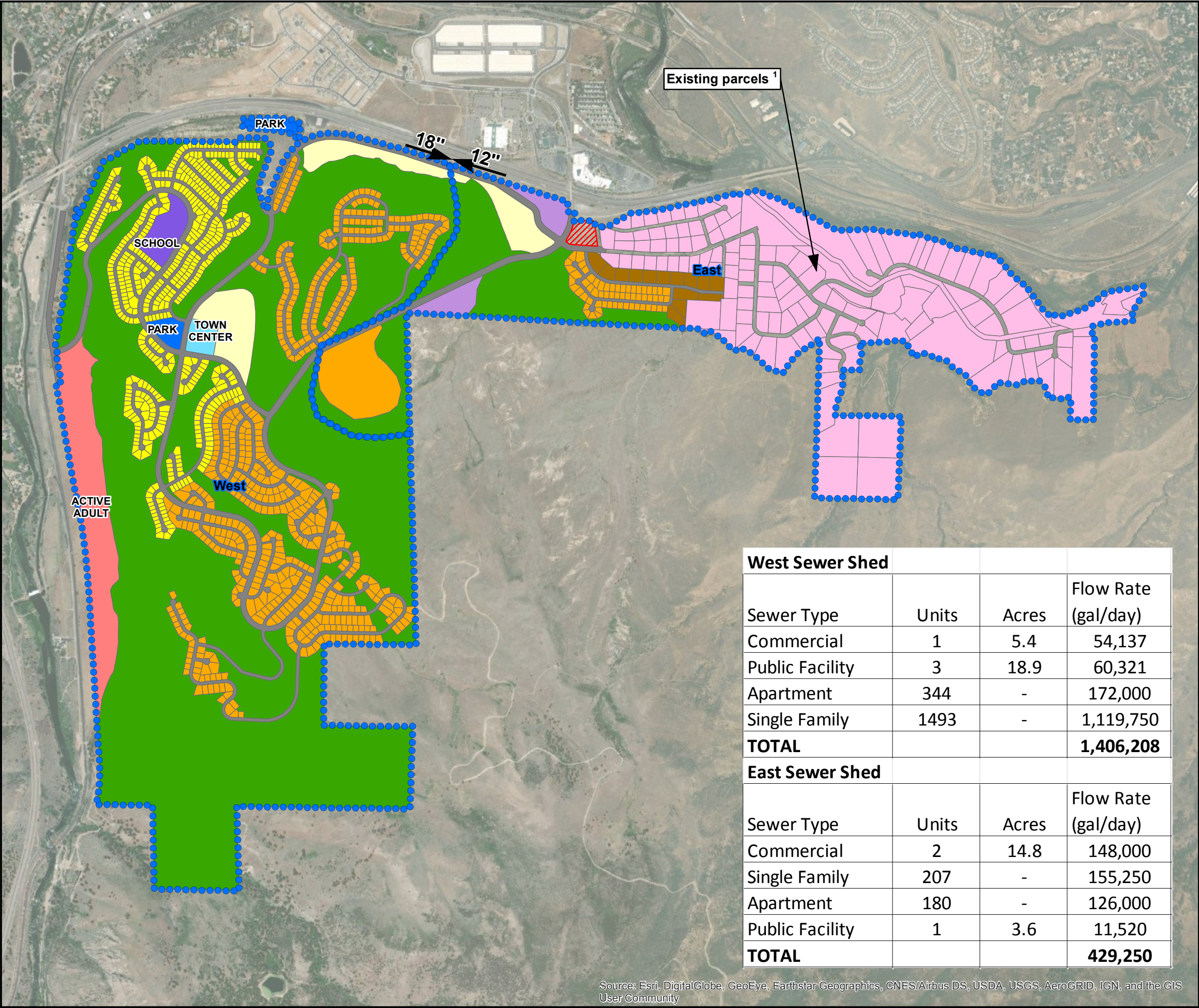
According to the sanitary sewer report from Summit Engineering, the Meridian 120S area located south of interstate I-80 was estimated to contribute a total peak flow of 2.04 MGD and will flow at approximately 1/3 full in a 21" pipe. According to calculations performed on the entirety of the proposed Meridian 120S development including existing parcels located to the east of Meridian 120S which are currently on septic, an anticipated peak flow of 1.84 MGD is expected. Considering that this number is approximately 0.2 MGD lower than calculated in the sanitary sewer report from Summit Engineering, the proposed main and the existing sewer main where this project will be connecting to will have sufficient capacity to handle the flows expected from Meridian 120S.

An exhibit has been included with this letter demonstrating expected flow contributions by area.

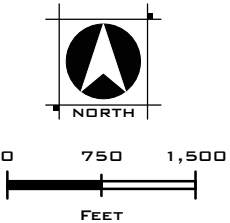
If you have any questions or concerns, please contact me at 823-5245 or e-mail me at kcastle@woodrogers.com.

Sincerely,
WOOD RODGERS, INC.

Kyle Castle



SEWER SHEDS
BOOMTOWN 120 SOUTH
RENO, NV
JUNE, 2021



→ FlowArrow

● SewerShed

Existing Parcels

Proposed Fire Station

ACTIVE ADULT

COMMERCIAL

MULTIFAMILY

OPEN SPACE

PARK

ROAD

SCHOOL

SF-1 acre

SF-6000

SF-9000

TOWN CENTER

West Sewer Shed			
Sewer Type	Units	Acres	Flow Rate (gal/day)
Commercial	1	5.4	54,137
Public Facility	3	18.9	60,321
Apartment	344	-	172,000
Single Family	1493	-	1,119,750
TOTAL			1,406,208
East Sewer Shed			
Sewer Type	Units	Acres	Flow Rate (gal/day)
Commercial	2	14.8	148,000
Single Family	207	-	155,250
Apartment	180	-	126,000
Public Facility	1	3.6	11,520
TOTAL			429,250

NOTES: 1. Existing parcels not to be connected with Meridan 120 South.

PRELIMINARY

WOOD RODGERS

BUILDING RELATIONSHIPS ONE PROJECT AT A TIME

1361 Corporate Boulevard
Reno, NV 89502

Tel: 775.823.4068
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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

FIGURE X