

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 78-12170
Exam Date: 4/19/2018

1. Current Owner:
STATE OF IDAHO DEPT OF TRANSPORTATION
PO BOX 837 LEWISTON ID 83501 (208) 799-5090

2. Accompanied by: Mark Ahlers and Bruce Bovey
Phone No: (208) 790-0076
Address: PO BOX 837 LEWISTON ID 83501
Relationship to Permit Holder: ITD Representatives

3. **SOURCE:**
GROUND WATER

TRIBUTARY:**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 78-12166
2. Other water rights with the same point-of-diversion: 78-12166

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER SW¼SW¼ Sec. 9, Twp 23N, Rge 01E, B.M. IDAHO County

Method of Determination: Field exam, aerial imagery, and GPS point.

2.

PLACE OF USE: DOMESTIC and IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
23N	01E	9											X						
													1.8						1.8

Total Acres: 1.8

Method of Determination: Field exam and aerial imagery.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
☒ Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be
☒ 1:24,000 or greater.

☒ Aerial Photo Attached (required for irrigation of 10+ acres).

☒ Photo of Diversion and System Attached

4.

Well ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Goulds	5	UNKNOWN	Goulds	UNKNOWN

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1. No flow measurements were taken. ITD has a totalizer for each use that was used to calculate the maximum day/month/year volumes.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Totalizer (Domestic)	meter	Sensus	UNKNOWN	55879643	2"	UNKNOWN
Totalizer (Irrigation)	meter	Sensus	UNKNOWN	56179732	2"	UNKNOWN

2. Measurements: Totalizer readings are below;

Irrigation (highest use):

2016

August – 14,523 gal/day

Domestic (highest use):

September 1, 2016 – 805.84 gal/day or 294,773 gal/year

E. FLOW CALCULATIONS

Measured Method:

X Additional Computation Sheets Attached

Irrigation – 1.8 acres X 0.03 cfs = **0.05 cfs** (per IDAPA 37.03.02 §035.03-b)

Domestic – Fixture use is outlined below with the corresponding flow rate. This information was generalized from the provided make and model numbers provided in the as builds received from ITD. The total sum equals the instantaneous flow rate for the system. The caretaker's home is included on WR No. 78-12166, therefore negligible.

7 sinks @ 0.50 gpm = 3.0 gpm

8 toilets @ 3.5 gpf = 28.0 gpf (assume one flush/minute)

2 urinals @ 1.0 gpf = 2.0 gpf (assume one flush/minute)

2 drinking fountains @ 0.45 gpm = 0.90 gpm

11 house bibs @ 4.5 gpm = 49.5 gpm

Total = 83.4 gpm or ~0.19 cfs (system's maximum instantaneous use w/out including 0.02 cfs for the caretaker's use)

A pump curve was obtained from Uhlenkott Pump Servicing Inc. identifying the well capacity at 55 psi and 51 feet deep is 60 gpm or 0.13 cfs. This estimate is a better guess of the pump capacity. The recommended domestic rate is **0.13 cfs**.

F. VOLUME CALCULATIONS

1. Volume Calculations for **Irrigation**:

$$V_{I,R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.8 \text{ acres} \times 4.0 \text{ H.G.R.} = \mathbf{7.2 \text{ AF}}$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.05 \text{ cfs} \times 302 \text{ days} \times 1.9835 = \mathbf{30.00 \text{ AF}}$$

$$V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = \mathbf{7.2 \text{ AF}}$$

2. Volume Calculations for **Domestic**:

$$V_R = \text{Maximum use from the domestic totalizer is } 294,773 \text{ gallons or } \mathbf{0.9 \text{ AF}}$$

$$V_{D,R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Domestic season}) \times 1.9835 = 0.13 \text{ cfs} \times 365 \text{ days} \times 1.9835 = \mathbf{94.1 \text{ AF}}$$

$$V = \text{Smaller of } V_{I,R} \text{ and } V_{D,R} = \mathbf{0.9 \text{ AF}}$$

G. NARRATIVE/REMARKS/COMMENTS

Permit No. 78-12170 authorizes a diversion rate of 1.08 cfs for Domestic (1.00 cfs), and Irrigation (0.08) purposes. A field exam was conducted by WRA Aaron Skinner on April 19, 2018, who was accompanied by Mike Ahlers, ITD's Safety Compliance Officer and Bruce Bovey, ITD's local Transportation Tech.

BACKGROUND:

The purpose of this right is to provide water to the Sheep Creek Rest Area. Existing WR No. 78-12166 provides domestic use to the rest area and assumed caretaker's house, which overlaps with this right, but does not provide enough water as determined in Section E and F of this report. There are two well logs associated to Sheep Creek Rest Area, but only one well delivers water to the property. In August 2016, Uhlenkott Pump Servicing Inc. replaced the well motor and pump with a 5 HP Goulds pump as outlined in Section B-4 of this report. When this occurred, the well depth was identified to be 51 ft deep matching the well log from 2/15/1965 and established a pump depth of ~50 feet. Bruce provided a cartoon of the well profile, which is also included with this report. TDH was calculated to total 170.5 feet (psi + 2.31 X vertical lift = 55 psi + 2.31 X 50 feet).

System Description:

Ground water is pumped from the well to a double wide manufactured home and to the pump house behind the

restroom facility. Please see the attached schematics for the domestic lines and irrigation system provided by ITD. To offset peak use, three 86 gallon pressure tanks have been installed in the pump house. The rest area averages 219 cars per day according to ITD's car tracking system. The irrigation sprinklers vary in number per zone, but average 10 sprinklers per zone. The irrigation system has 14 zones that operate at 55 psi. Each zone runs for 20 minutes seven days a week from May 15th to October 1st. Sprinkler system calculations totaled 0.07 cfs (10 sprinklers with a 3 gpm rating for the highest rated sprinklers), which is an overestimate of what Department standards allow at 0.03 cfs per acre. Therefore, the recommended instantaneous rate for irrigation will be 0.05 cfs as shown in Section E of this report.

Diversion Rate and Volume:

The permitted rate of 1.08 cfs will be adjusted to the recommended Irrigation and Domestic rates of .05 cfs and 0.13 cfs respectively. These rates were based off the development of 1.8 acres for irrigation and the maximum diversion rate according to the available pump curve. These calculations are described in Section E and F of this report. The rate of 0.13 cfs is the pump capacity, therefore, use rates are non-additive.

Ownership:

Current Idaho County taxlot data was used to verify land ownership. The Idaho Land Management layer was also used in ArcMap to verify State ownership. The parcel does not have an identified owner, but is assumed to be owned by ITD since the parcel has been developed and historically known as the Sheep Creek Rest Area.

Overlap:

The POD and POU analysis identified WR No. 78-12166 as an overlapping right. Domestic use for each right is part of the same system, which provides water to the caretaker's house and the rest area. Pump curve information was used for the 5 HP pump, 55 psi, and a well depth of 51 feet. The pump capacity is 60 gpm or 0.13 cfs. Combine use limits for WR No. 78-12166 and this right will not exceed 0.13 cfs and 0.9 AF.

Conditions:

Condition 046 was removed and not forwarded to licensing. Condition 01M, R68, and WB5 were forwarded to licensing. Condition X35 was added to describe the combine use limit with WR No. 78-12166. Condition 121 was updated to 103 and forwarded to licensing.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.13 CFS	0.9 AF
IRRIGATION	02/15 to 11/30	0.05 CFS	7.2 AF
	<u>Totals:</u>	0.130 CFS	8.10 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None
 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

Field Examiner's Name Aaron Skinner Date 5/1/2018
 Reviewer Angela H. Quinn Date 5/8/18

Rest Area

Women's → 3 sinks / 5 toilets

Men's → 2 sinks / 2 toilets / 2 urinals

family → 1 sink / 1 toilet

Pump Room → 1 sink

2-drinking fountains

2-hose bibs on building

9-hose bibs around grass area

Irrigation

14 zones with average of 10 heads

↳ 15-20 minutes/zone

↳ 7 days/week @ night

Season of use ⇒ May 15th → Oct 1st ~140 days.

Acres ⇒ 1.8 w/caretaker's house and bathrooms removed.

- only one well/system for caretaker's house, rest area, and irrigation

Skinner, Aaron

From: Mike Ahlers <Mike.Ahlers@itd.idaho.gov>
Sent: Tuesday, April 24, 2018 4:00 PM
To: Skinner, Aaron
Cc: Bruce Bovey
Subject: RE: Field Exam Time - Water Permit No. 78-12170 (Sheep Creek Rest Area)

Aaron,

Per our meeting at Sheep Creek Rest Area last Thursday, I was supposed to get back to you will Water usage and acreage.

Note: ITD had issues with our Caretaker at the rest area, so 2017 data for water was not used.

Domestic Water readings were:

Sept. 1, 2016	21,661,151 gals.	Equals 294,131 gals/year	or	805.84 gals/day
Sept. 1, 2015	21,367,020 gals.	Equals 293,773 gals/year	or	804.86 gals/day
Sept. 1, 2014	21,073,247 gals.			

The highest month usage for DOMESTIC WATER was July 2016 at 46,708 gals/month or 1,506 gals/day.

Irrigation Water readings were:

June 2016	13,782 gals/day
July 2016	13,867 gals/day
August 2016	14,523 gals/day or 450,234 gals for the month of August

As for the acreage of the Rest Area. We or I did not find it listed in plans or contract. But using Google Earth Pro we estimated the entire Rest Area at 3.1 Acres. But the area the we believed is irrigated is 1.6 acres (Not taking out the buildings)

Thanks, and if you questions, please email or call me.

Mike Ahlers
Safety/Compliance Officer – District 2
Idaho Transportation Department
PO Box 837
2600 Frontage Road
Lewiston, ID 83501
Work: 208-799-4208
Cell: 208-790-0076

"It is better to be careful 100 times, than to be killed once". – Mark Twain

From: Skinner, Aaron [mailto:Aaron.Skinner@idwr.idaho.gov]
Sent: Friday, April 13, 2018 3:13 PM
To: Mike Ahlers
Cc: Bruce Bovey; David Fraser
Subject: RE: Field Exam Time - Water Permit No. 78-12170 (Sheep Creek Rest Area)

Mike,

Let's plan on me meeting Bruce at 12:30 my time if that is easier. This should provide ample time to review things and get him back on the road before 2 pm. I know I'm throwing this at you unexpected, so appreciate your efforts and coordinating with staff.

Thank you,

Aaron Skinner
Idaho Department of Water Resources
Water Resource Agent
(208) 334-2190
aaron.skinner@idwr.idaho.gov

From: Mike Ahlers [<mailto:Mike.Ahlers@itd.idaho.gov>]
Sent: Friday, April 13, 2018 9:05 AM
To: Skinner, Aaron <Aaron.Skinner@idwr.idaho.gov>
Cc: Bruce Bovey <Bruce.Bovey@itd.idaho.gov>; David Fraser <David.Fraser@itd.idaho.gov>
Subject: RE: Field Exam Time - Water Permit No. 78-12170 (Sheep Creek Rest Area)

Aaron,

Sorry, I had spoken with Bruce Bovey, about this field exam and was to get back with you with a time earlier in the day. When is your prior commitment? And how much earlier in the day could we schedule it for, if at all? Even starting at 1:00 PM your time would allow Bruce Bovey to be in the meeting for 1 hour. Bruce needs to leave at 2:00 PM at the latest.

Thanks, Mike Ahlers SCO2 2-4208 208-799-4208 office 208-790-0076 cell mike.ahlers@itd.idaho.gov

"It is better to be careful 100 times, than to be killed once". – Mark Twain

From: Skinner, Aaron [<mailto:Aaron.Skinner@idwr.idaho.gov>]
Sent: Thursday, April 12, 2018 11:41 AM
To: Mike Ahlers
Subject: Field Exam Time - Water Permit No. 78-12170 (Sheep Creek Rest Area)

Mike,

I've pinned down two other field exams in New Meadows for Thursday morning (4/19/2018). Will you or someone familiar with the system be available to meet at the Sheep Creek Rest Area at 1:30 pm (Boise time)? This will be my last exam for the day, so I'm flexible any time after as well. Please let me know at your convenience.

Thank you,

Aaron Skinner
Idaho Department of Water Resources
Water Resource Agent
(208) 334-2190
aaron.skinner@idwr.idaho.gov

INDEX OF SHEETS		
SHEET NO.	DESCRIPTION	STA. TO STA.
1	TITLE SHEET	
2	PROJ. CLEAR. SUMM.	
3	ROADWAY SUMMARY	
4	PIPE CULV. SUMM.	
5-6	TYPICAL SECTIONS	
7	PLAN SHEET	
8	ACCEL. & DECEL. LANES	
9	SPRINKLER SYSTEM	
10	PERM. TRAFFIC COUNTER	

STANDARD DRAWINGS

Conduit Installation D-12
 Inlets & Catch Basins Type 1, 2 & 3 E-6-A
 Right of Way Fences F-2-A
 Fencing Details F-2-A
 Gates F-2-C
 Delineators G-3
 Curbs, Gutters, Traffic Separators and Raised Channelization End Treatment H-1
 Foundations for Signals and Lighting I-7
 Rest Area and Roadside Facilities Symbols K-10

BUILDING DRAWINGS

Sheep Creek Rest Area Building

Shts. 1-9

AS CONSTRUCTED

STATE OF IDAHO

TRANSPORTATION DEPARTMENT

DIVISION OF HIGHWAYS

PLAN AND PROFILE OF PROPOSED

U.S. HIGHWAY NO. 95

FEDERAL AID PROJECT NO. FR-4113(83)

IDAHO COUNTY

BOISE, AUG. 1965

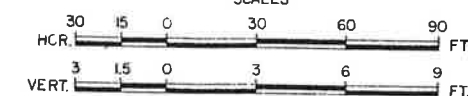
DESIGN DESIGNATION

U.S. 95	
ADT(1983)	1370
ADT(1986)	1460
ADT(2006)	2070
DHV(1986)	210(14.7%)
DHV(2006)	290(14.0%)
TRKS DHV(1986)	20(11.1%)
TRKS DHV(2006)	40(12.8%)
TRKS ADT(1986)	230(15.9%)
TRKS ADT(2006)	380(18.3%)
D	60/40%
V	60 M.P.H.

REST AREA

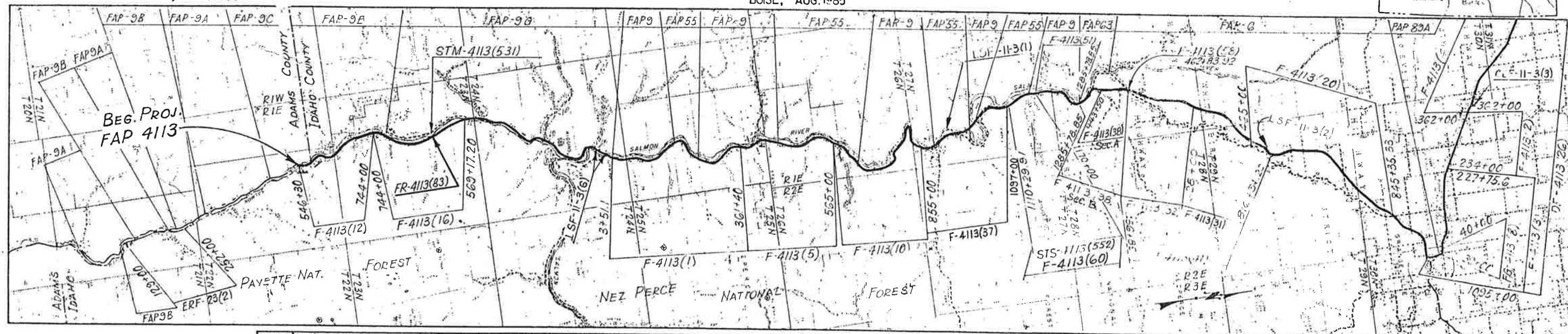
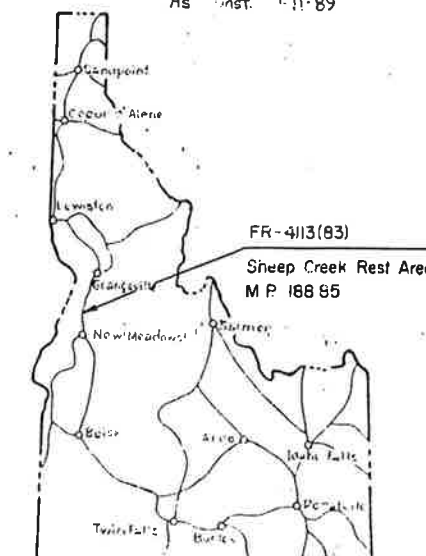
ADT(1983)	150
ADT(1986)	160
ADT(2006)	200

SCALES



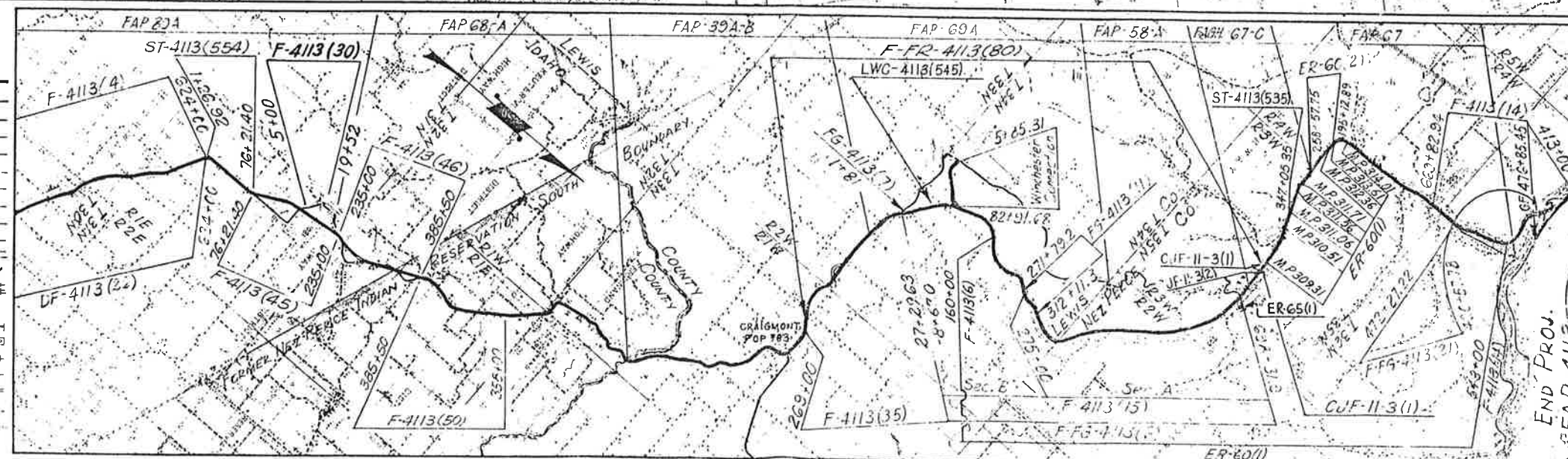
FEDERAL ROAD REGION NO.	STATE	FEDERAL AID PROJECT NO.	TOTAL SHEETS	SHEET NO.
10	IDAHO	FR-4113(83)	10	1

As Constructed 1-11-89



PLANIMETRIC CONVENTIONAL SIGNS

STATE LINE	---
COUNTY LINE	---
TOWNSHIP LINE	---
SECTION LINE	---
FENCE LINE, EXISTING	---
FENCE LINE, TO CONSTRUCT	---
UNFENCED PUBLIC OR PRIVATE PROPERTY	---
RIGHT OF WAY LINE	---
PARTIAL CONTROL OF ACCESS LINE	---
FULL CONTROL OF ACCESS LINE	---
EXISTING ROAD	---
BASE OR SURVEY LINE	---
RAILROADS	---
BRIDGE	---
CULVERT (EXIST. & TO CONST.)	---
SIPHON (EXIST. & TO CONST.)	---
POWER POLE (EXIST. & PROPOSED)	---
TEL. & TEL. POLE (EXIST. & PROP.)	---
IRRIGATION DITCH	---
LIMIT OF SLOPE LINE	---
SIGN SET BACK	---
BUILDING SET BACK	---



THE DIMENSIONS SHOWN ON THE PLANS SHALL BE ATTAINED WITHIN THE LIMITS OF PRECISION THAT GOOD CONSTRUCTION PRACTICES WILL PERMIT.

STATE OF IDAHO

Donald C. ...
 STATE HIGHWAY ADMINISTRATOR

DEPARTMENT OF
 TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED

MP 188.85 Sta 496+50

FEDERAL ROAD REGION NO.	STATE	FEDERAL AID PROJECT NO.
10	IDAHO	FR-4113(83)

Revised As Const. 1-1

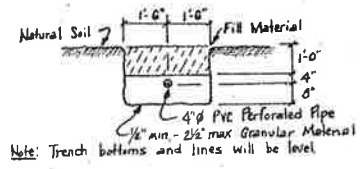
T. 23N., R. 1E., B.M.

NOTE: Permanent Signing and
Pavement Markings to be
done by State Forces.
Future Seal Coat for Rest Area
Parking Area by State Forces.

REVISION	BY	DATE

DESIGNED BY	DATE
DRAWN BY	DATE
APPROVED	DATE

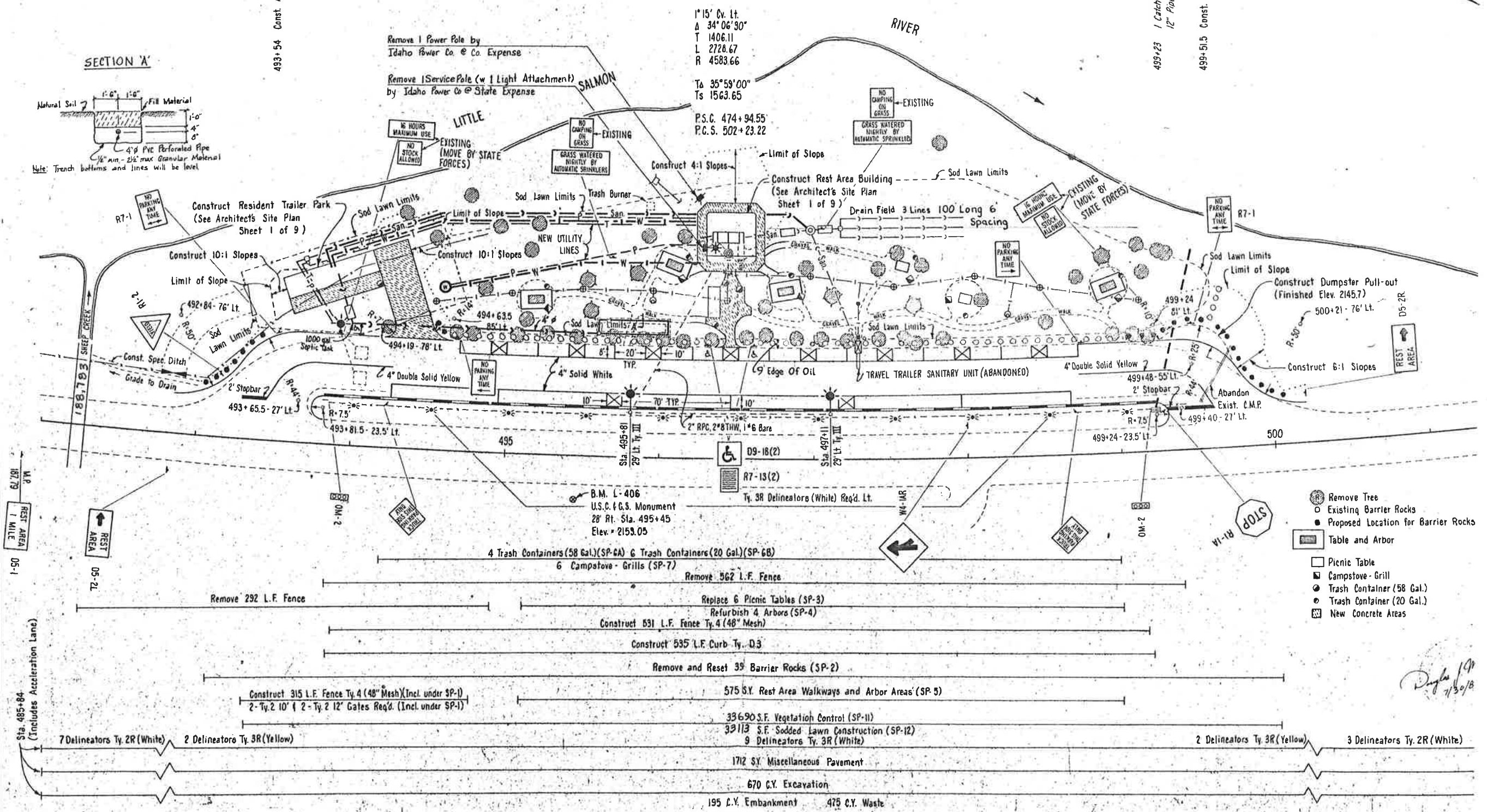
SECTION 'A'



493+54 Const. Appr. Lt. W-40'

499+23 1 Catch Basin Ty. 3 (Req'd. 26.5' Lt.)
12" Pipe Culvert 100' Req'd.

499+51.5 Const. Appr. Lt. W-40'



- Remove Tree
- Existing Barrier Rocks
- Proposed Location for Barrier Rocks
- Table and Arbor
- Picnic Table
- Campstove - Grill
- Trash Container (58 Gal.)
- Trash Container (20 Gal.)
- New Concrete Areas

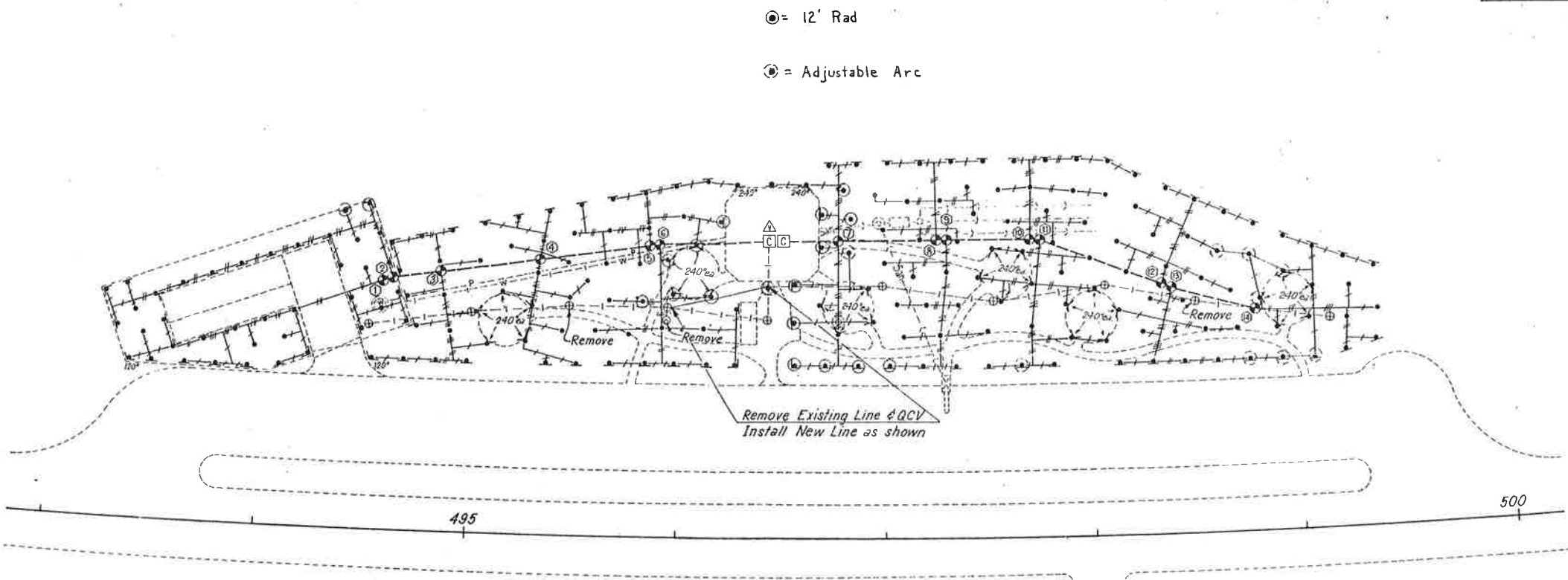
Douglas 1/9/8

REVISION	BY	DATE

DESIGNED BY	DATE
DRAWN BY	DATE
APPROVED	DATE

FEDERAL ROAD REGION NO.	STATE	FEDERAL AID PROJECT NO.
10	IDAHO	FR-4113(B3)

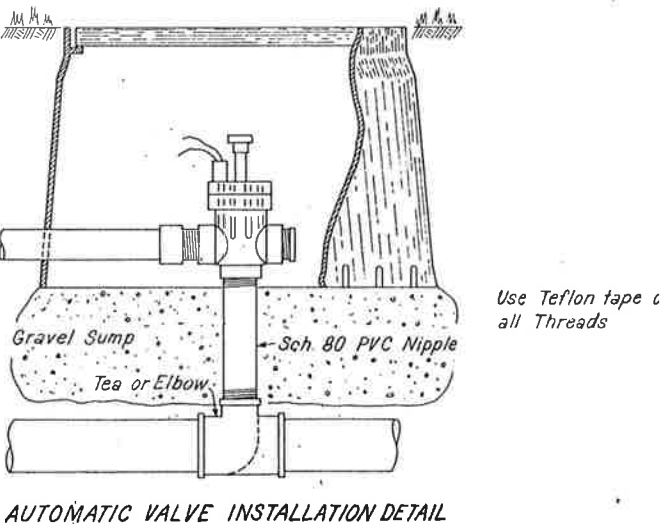
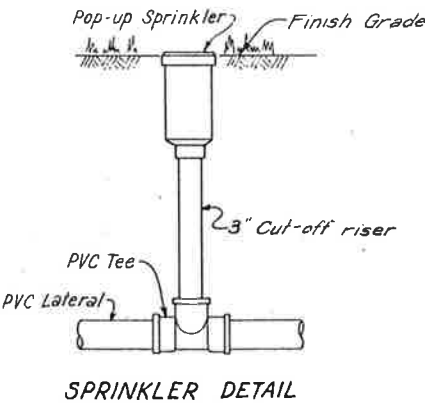
Revised As Const. 1-11-1



SPRINKLER SYSTEM LEGEND

SYMBOL	BRAND (1)	MODEL DESCRIPTION	QUANTITY(2)
	TORO	570P-15-Q Pop-up Sprinkler	8
	"	570P-15-120° " "	1
	"	570P-15-H " "	86
	"	570P-15-240° " "	30
	"	570P-15-270° " "	4
	"	570P-15-F " "	80
	"	252-06-06 1 1/2\" Elec. Valve	14
	RAINBIRD	RC7A-7 Station Controller	2
	"	PVB-200 Pressure Vacuum Breaker	1
	"	No. 33 3/4\" Quick Coupler Valve (Existing to be used)	
		1/2\" Class 200 P.V.C. Lateral Pipe 2"	1800'
		3/4\" " " " " " "	600'
		1\" " " " " " "	155'
		1 1/4\" " " " " " "	240'
		1 1/2\" " " " " " "	250'
		2\" " " " Mainline Pipe	430'
		No. 14 UF Common Wire	500'
		" " Control "	1760'
		Plastic Valve Boxes	9
		Existing Faucets (to be removed)	
		Existing QCV Line (to be retained & protected except where noted)	

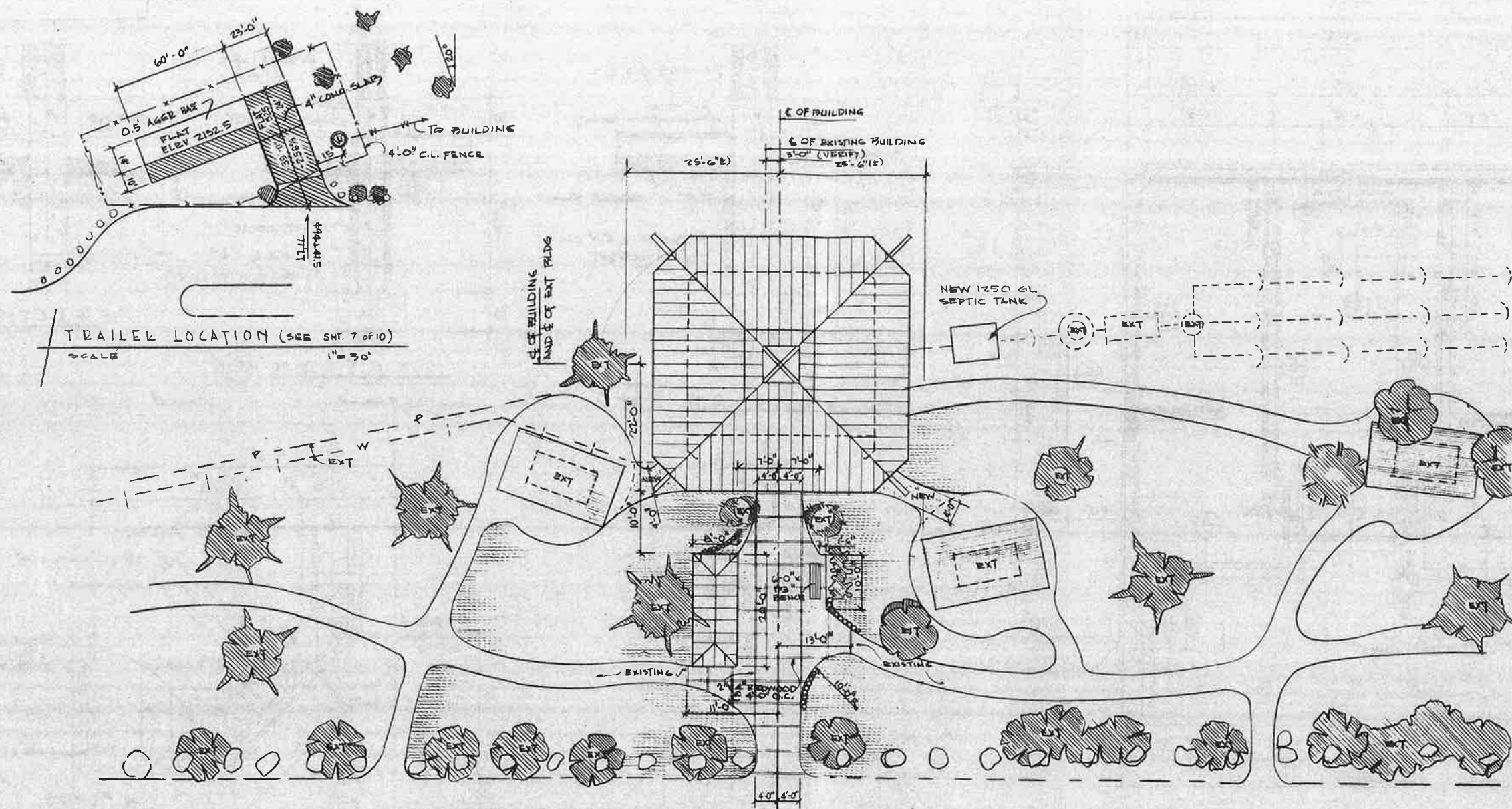
(1) Trade names & models are used to establish quality and performance
(2) Quantity of materials shown are for estimating only



STATE OF IDAHO
TRANSPORTATION DEPT.
DIVISION OF HIGHWAYS
DISTRICT TWO

SPRINKLER SYS
Sheep Creek Rest

Idaho Co.



TRAILER LOCATION (SEE SH. 7 OF 10)

SCALE 1" = 10'

LOCATION PLAN
SCALE 1" = 10'

SUMMARY

SP-1	Construct Rest Area Building and Resident Trailer Park	1 L.S.
SP-2	Remove and Reset Barrier Rock	39 Each
SP-3	Replace Picnic Tables	6 Each
SP-4	Refurbish Arbors	4 Each
SP-5	Rest Area Walkways and Arbor Areas	575 S.Y.
SP-6A	Trash Containers (58 Gal.)	4 Each
SP-6B	Trash Containers (20 Gal.)	6 Each
SP-7	Campstove - Grill	6 Each
SP-8	Underground Sprinkler System	1 L.S.
SP-9	Well Pump	1 L.S.
SP-10	Traffic Counter	1 L.S.
SP-11	Vegetation Control	39,830 S.F.
SP-12	Sodded Lawn Construction	35,930 S.F.

○ 6" TREATED WOOD LOGS
3'-0" IN THE GROUND, VARIABLE
HTS ABOVE GROUND FROM
16" TO 36" (HORIZONTAL LENGTH 10'-0")

NOTE
ALL EXISTING GRAVEL WALKS AND
ARBOR AREAS TO BE RESURFACED
WITH ASPHALT 4'-0" WIDE

SITE PLAN

1

SHEEP CREEK REST AR

STATE OF IDAHO
TRANSPORTATION DEPARTMENT
DIVISION OF HIGHWAYS

No.	BY	DATE

DESIGNED
CESARZ QUITANO

DESIGN CHECKED

DETAILED
CESARZ QUITANO

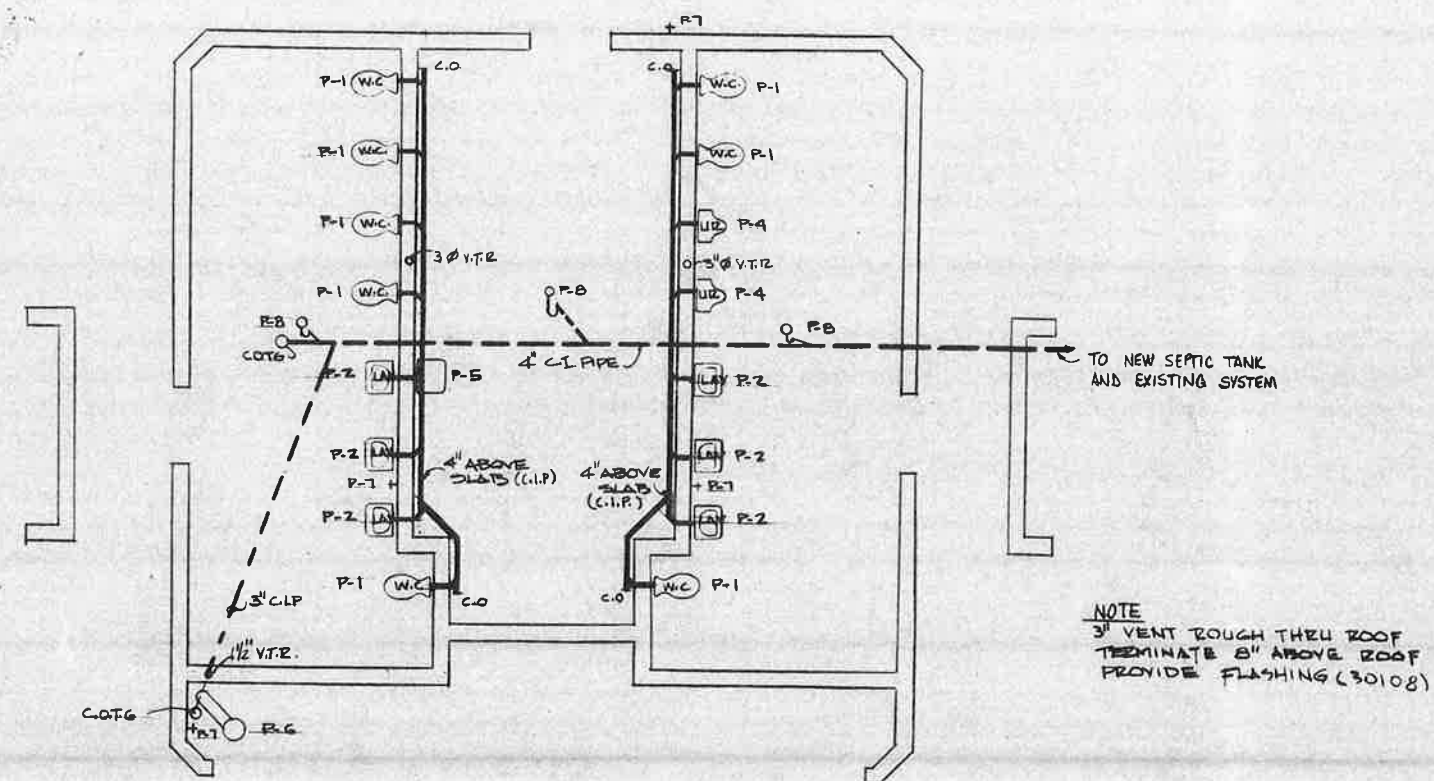
DWG. CHECKED

COUNTY
IDAHO

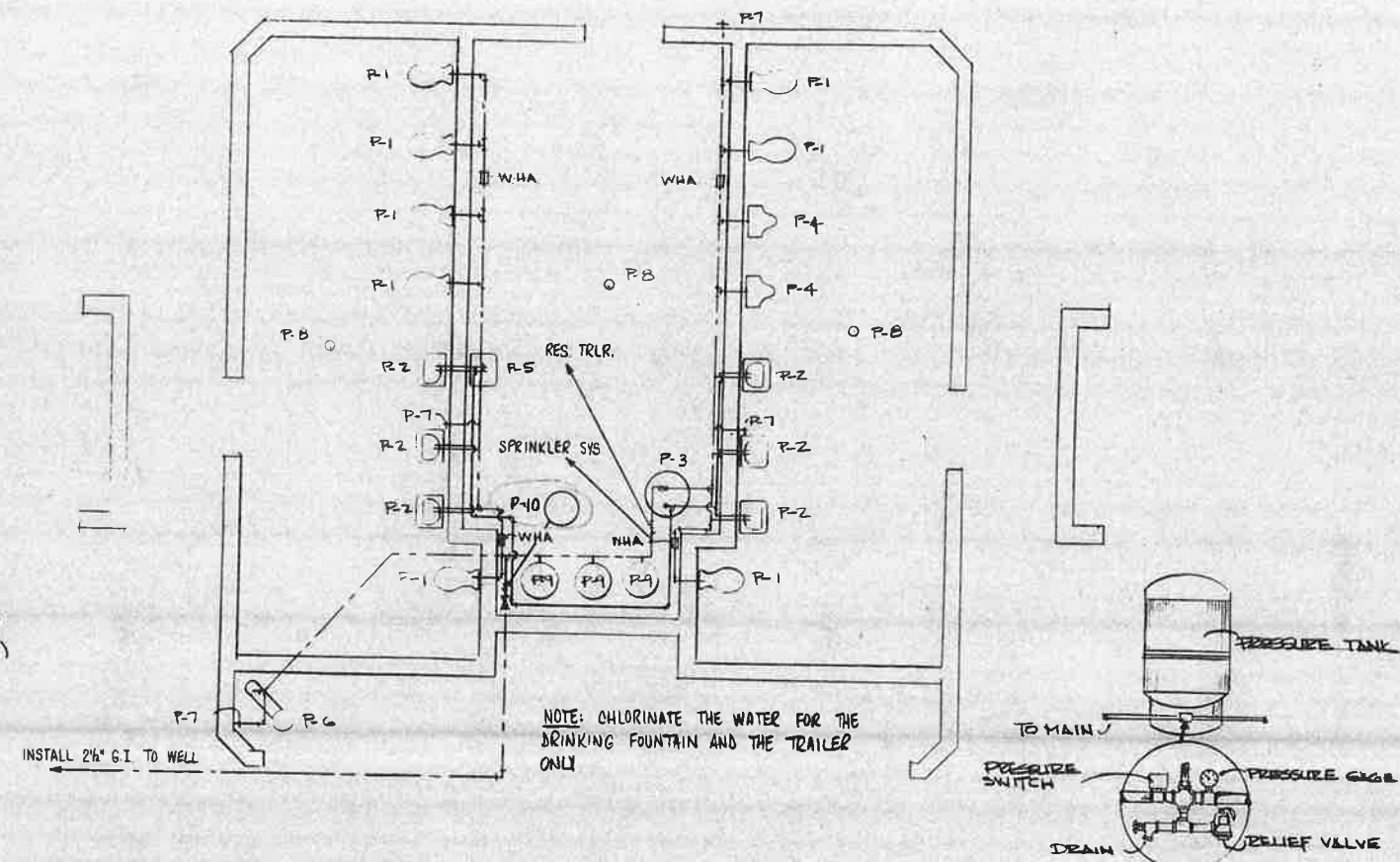
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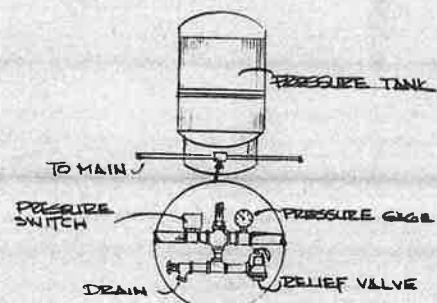




NOTE
3" VENT ROUGH THEN ROOF
TERMINATE 8" ABOVE ROOF
PROVIDE FLASHING (30108)

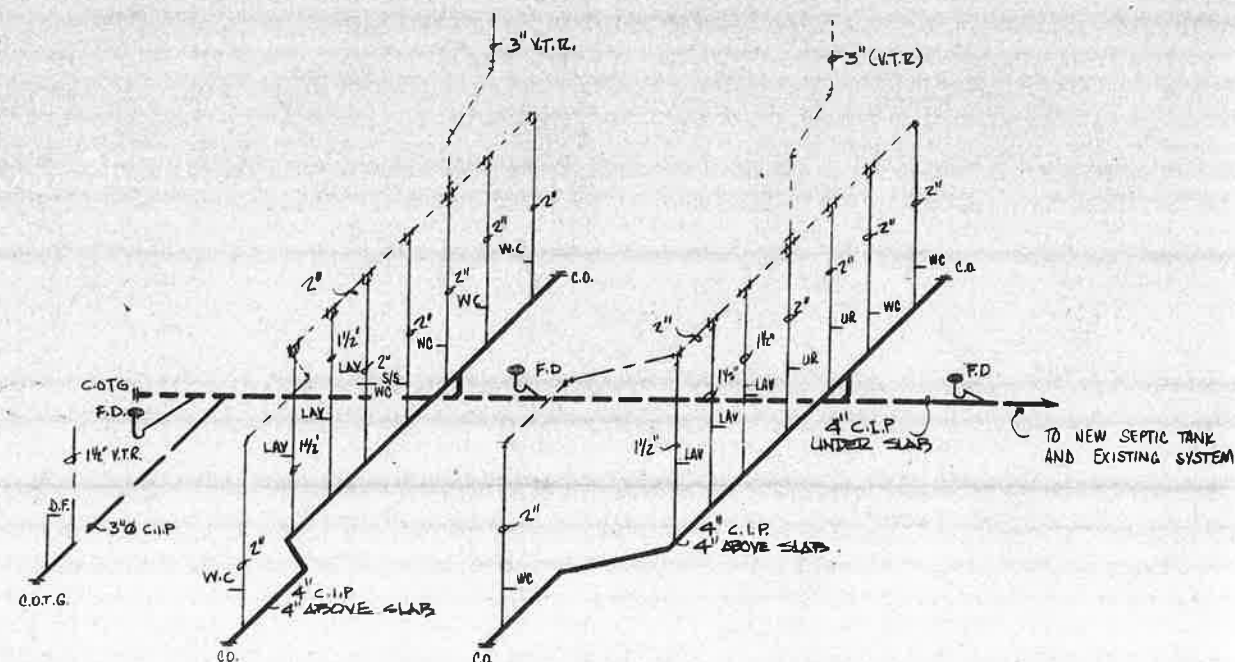


NOTE: CHLORINATE THE WATER FOR THE
DRINKING FOUNTAIN AND THE TRAILER
ONLY



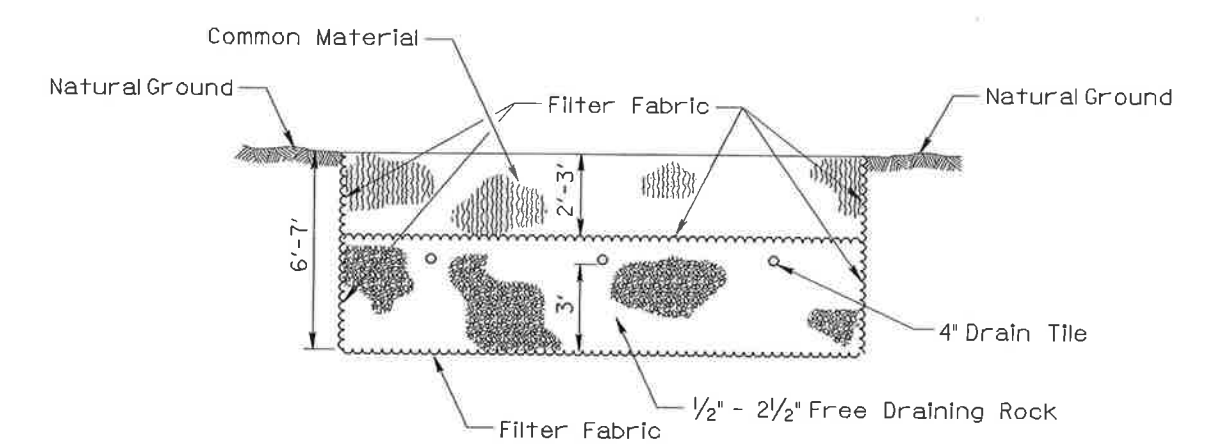
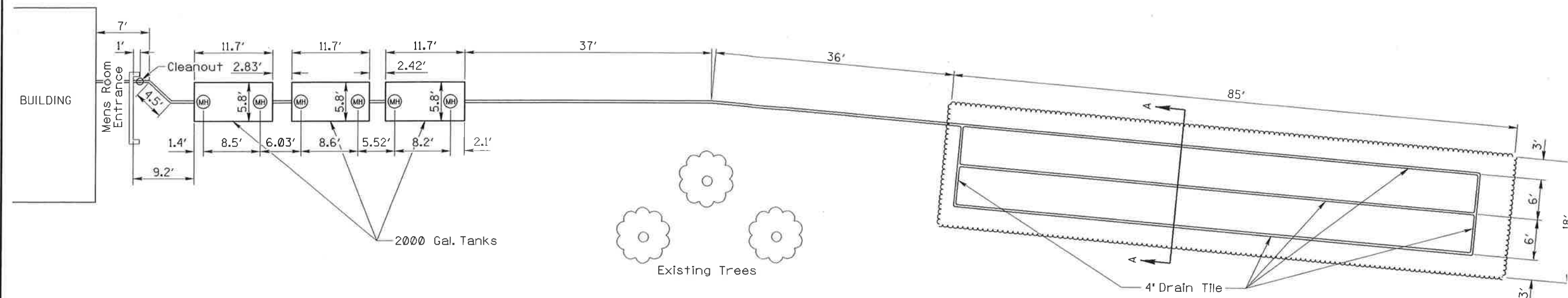
PLUMBING FIXTURE SCHEDULE					
SYMBOL	DESCRIPTION	MANUFACTURER	FIXTURE NUMBER	ROUTING HEIGHT	WATER & WASTE
P-1	WATER CLOSET	AMER. STAND	2530-012	1'-3" - 1'-7"	1" 4" 2"
P-2	LAVATORY	KOHLER	K-2868-1	2'-5" - 2'-7"	1/2" 1/2" 1/2" 1/2"
P-3	WATER HEATER	RHEEM GLASS	BO GL.		3/4" 3/4"
P-4	URINAL	KOHLER	K-4980 R	1'-5" - 2'-0"	1/2" 3" 2"
P-5	SERVICE SINK	KOHLER	K-6716		1/2" 1/2" 3" 2"
P-6	DRINKING FOUNTAIN	HAWES	3376		1/2" 3" 1 1/2"
P-7	WATER HYDRANT	WOODFORD	B-65	1'-8"	3/4" 3"
P-8	FLOOR DRAIN	SOSAM	3003-35	FLOOR	3"
P-9	PRESSURE TANKS	AMTROL W-X-T	WX-252		
P-10	CHLORINATOR SYSTEM	H.E. ANDERSON CO.	CB1-F-A-Q		

--- COLD WATER SUPPLY
--- HOT WATER SUPPLY
--- CAST IRON PIPE ABOVE
--- CAST IRON PIPE BELOW S
--- VENT PIPING



C.I. - CAST IRON
C.O. - CLEAN OUT
COTG - CLEAN OUT TO GRADE
DF - DRINKING FOUNTAIN
LAV - FLOOR DRAIN
S/S - SERVICE SINK
UR - URINAL
W.C. - WATER CLOSET
WH - WATER HYDRANT
WHA - WATER HAMMER ARRESTOR (SEE SPEC'S)

MECHANICAL		M-1 SHEEP CREEK REST AD	
STATE OF IDAHO TRANSPORTATION DEPARTMENT DIVISION OF HIGHWAYS		DESIGNED CESAR QUIJANO	
DESIGNED CESAR QUIJANO		DESIGN CHECKED	
DETAILED CESAR QUIJANO		DWG. CHECKED	
KEY No.		DWG. No.	
DATE		SHEET	
9		OF	



REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 22" X 34" PRINTS ONLY CADD FILE NO. prjs002/mice/ misc mte Items/22500.dgn	IDAHO TRANSPORTATION DEPARTMENT	PROJECT NO.	PLAN	FORM CATALOG N 26-0182100 COUNTY KEY NUMBER SHEET 1 OF
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED					
△									
△									
△									
△									
△									
△									

DWG. CHECKED	WALLY KILMER	DRAWING DATE: 12-8-99	REGION 10	IDAHO	SHEEP CREEK SEPTIC SYSTEM & DRAIN FIELD
--------------	--------------	--------------------------	-----------	-------	--

REST AREA AND ROADSIDE FACILITIES

TABLE AND ARBOR	
PICNIC TABLES (MOVABLE)	
PICNIC TABLES (STATIONARY)	
SITTING BENCH	
TOILET BUILDING	
INFORMATION PANEL	
TELEPHONE	
TRAVEL TRAILER SANITARY UNIT	
LITTER BARREL	
INCINERATOR WITH BARRIER	
FIREPLACE OR GRILL	
WELL	
WATER PUMP	
CHECK VALVE SPRING LOADED	
FLOW REGULATOR	
FLOW SWITCH FOR HYPOCHLORINATOR	
HYPOCHLORINATOR	
PROPOSED CONNECTION (TEE)	
DRINKING FOUNTAIN	
HYDRANT	
SPRINKLER SYSTEM	
FLOOD (BUBBLER, STREAM OR SPIDER)	
FULL CIRCLE SHRUBBERY SPRAY	
HALF CIRCLE SHRUBBERY SPRAY	
QUARTER CIRCLE SHRUBBERY SPRAY	

CENTER STRIP SHRUBBERY SPRAY	
END STRIP SHRUBBERY SPRAY	
FULL CIRCLE ABOVE GROUND ROTARY SPRINKLER	
PART CIRCLE ABOVE GROUND ROTARY SPRINKLER	
FULL CIRCLE POP-UP ROTARY SPRINKLER	
PART CIRCLE POP-UP ROTARY SPRINKLER	
QUICK-COUPLING VALVE	
REMOTE CONTROL VALVE	
MANUAL CONTROL VALVE	
COMBINATION PRESSURE REDUCING REMOTE CONTROL VALVE	
PRESURE REDUCING VALVE	
MASTER REMOTE CONTROL VALVE	
AUTOMATIC SPRINKLER CONTROLLER	
ATMOSPHERIC VACUUM BREAKER	
PRESSURE VACUUM BREAKER	
MANUAL DRAIN VALVE	
AUTOMATIC DRAIN VALVE	
GATE VALVE	
COMPRESSOR COUPLING	
MASTER CONTROL VALVE	
MOISTURE SENSOR	
AUTOMATIC STOP FLOW VALVE	

TREE & SHRUB SYMBOLS

SINGLE DECIDUOUS TREE		
MASS DECIDUOUS TREES		
SINGLE CONIFER TREE		
MASS CONIFER TREES		
MASS SHRUBS		
SINGLE SHRUB		
PLANTING BEDS ON PLANTING PLANS		

STATE OF IDAHO DEPARTMENT OF HIGHWAYS		REVISED
REST AREA & ROADSIDE FACILITIES SYMBOLS		
BOISE, IDAHO JULY, 1971		
APPROVED:	DRAWING NO.	
 ASST. STATE HIGHWAY ENGINEER	K-10	
 STATE HIGHWAY ENGINEER		



719 East Road Dave Spencer
Cottonwood, ID 83522 (208) 983-6366
208-962-3279
208-746-4555

Invoice

Date	Invoice #
8/17/2016	1970

Bill To

Idaho Dept of Transportation
303 Grangeville Truck Rte
Grangeville, ID 83530

Job Notes

Sheep Creek Rest Area

P.O. No.

Qty	Item	Description	Price Each	Amount
	Labor Group-ID	Replaced Control Box		267.00
	Labor Group-ID	Replaced Pump and Motor		487.00
		MATERIALS:		
1	40GS50WE (2014)	40 Gallon Submersible Goulds Pump 5 HP	1,788.00	1,788.00
1	Motor, Sub 5HP 1PH 23...	5 HP 1 PH 4" sub motor	1,612.00	1,612.00
1	CB 5 HP MC (2015)	CB 5 HP MC	538.00	538.00
1	Splice Kit	Splice Kit	6.50	6.50
1	Switch, PS FSG2 Stand...	Pressure Switch FSG2 Standard	23.77	23.77

RECEIVED

AUG 17 2016

DISTRICT #2

Thank you for your business!

Bruce Bovey

Total

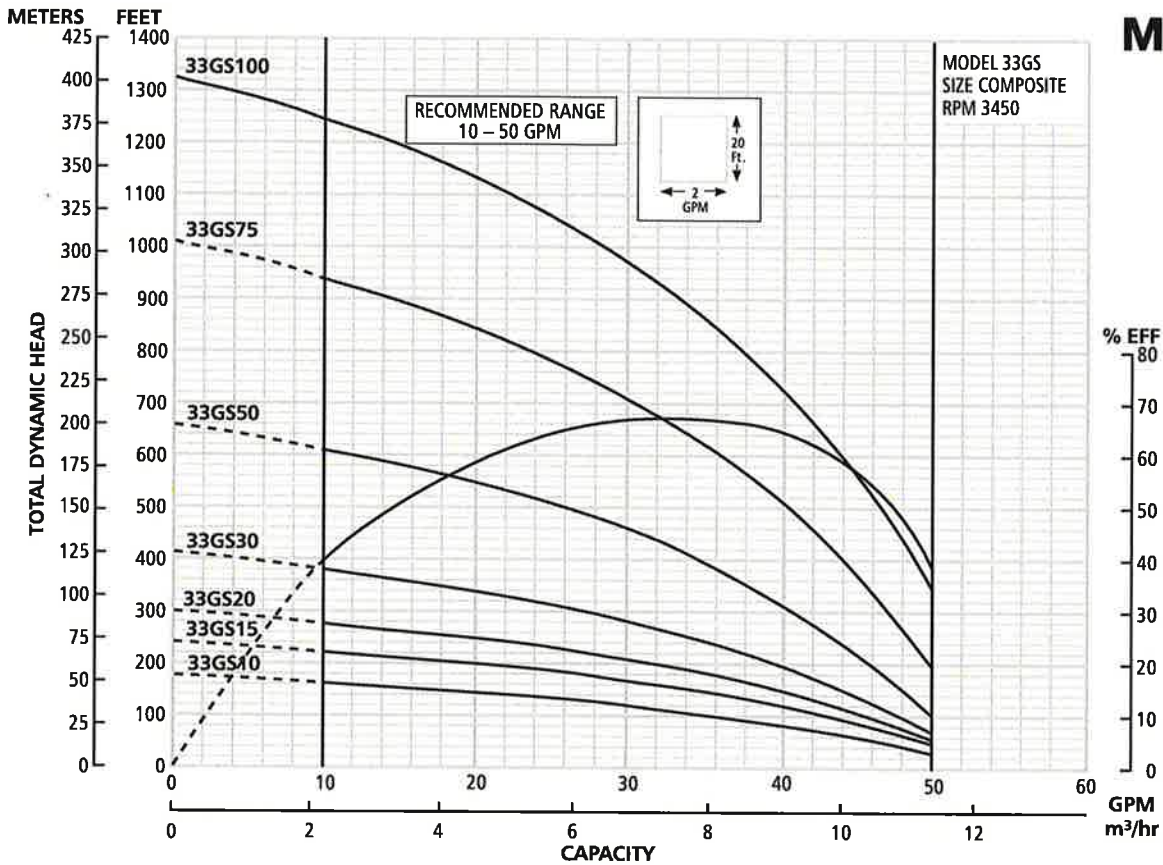
\$4,722.27

Pay online at: <https://app.intuit.com/login/gb>

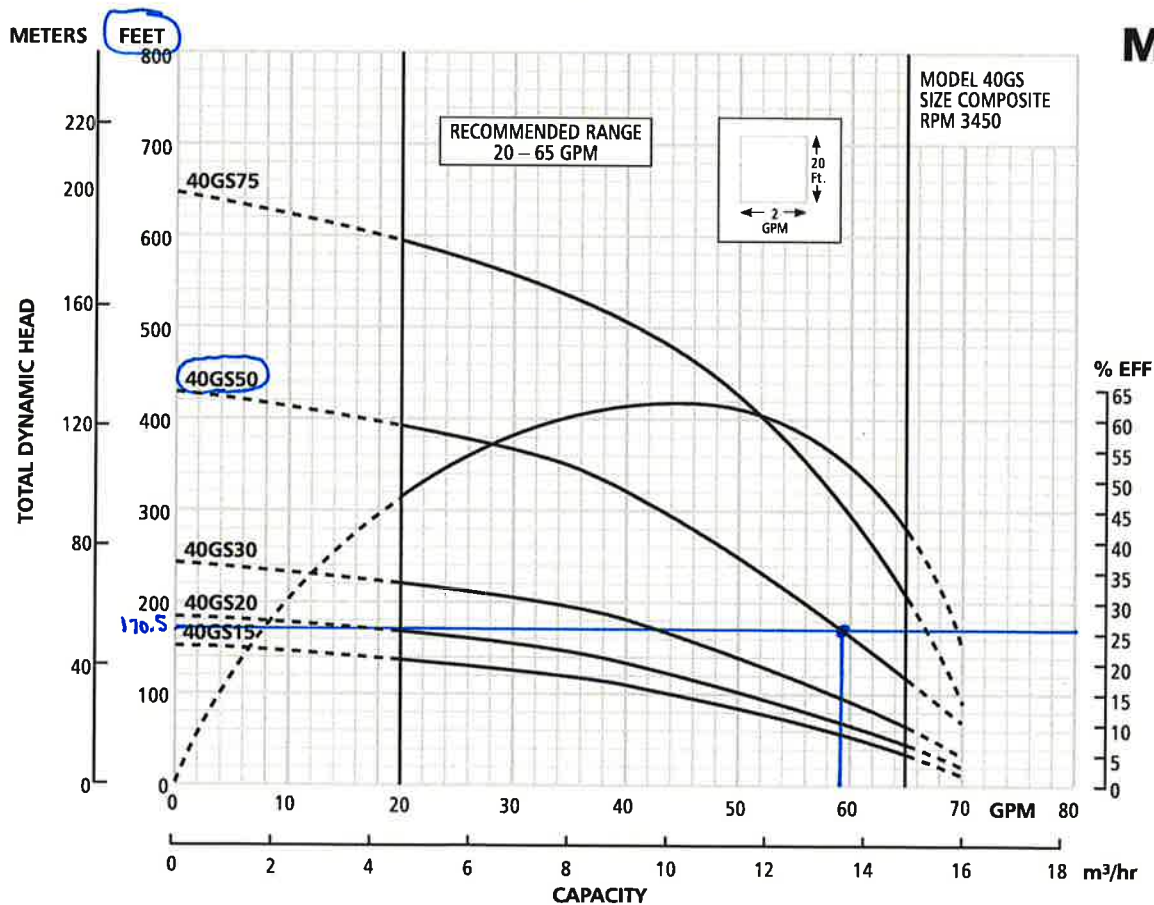
Payment is due upon receipt. A service charge of 2.0% is added to amounts 30 days old, which is an annual rate of 24.0%. Minimum monthly service charge is \$2.00. Payment by credit card is subject to an additional charge of 3%.

Residential Water Systems

Model 33GS



Model 40GS



Residential Water Systems

MODEL 40GS

SELECTION CHART

Horsepower Range 1½ - 7½, Recommended Range 20 - 65 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																											
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	440	480	520	560	600	640		
40GS151½		0		65	59	53	46	35																						
		20	58	51	43	31																								
		30	50	41	28																									
		40	40	25																										
		50	22																											
		60																												
Shut-off PSI			57	49	40	31	23	14																						
40GS202		0			63	58	53	47	38	25																				
		20	61	57	51	44	35																							
		30	56	50	43	33																								
		40	49	42	31																									
		50	40	29																										
		60	26																											
Shut-off PSI			71	62	53	45	36	27	19	10																				
40GS303		0				63	59	56	51	47	41	33	20																	
		20	65	62	58	54	50	45	38	32	30																			
		30	61	58	54	49	44	37	28																					
		40	57	53	48	43	36	26																						
		50	52	48	42	35	24																							
		60	47	41	33	21																								
Shut-off PSI			97	88	80	71	62	54	45	36	28	19	10																	
40GS505		0						65	64	62	60	58	56	53	51	48	45	42	38	33	26									
		20				65	63	61	59	57	55	52	50	47	44	41	36	31	23											
		30			64	63	61	59	57	54	52	50	47	44	40	36	30	21												
		40		64	62	60	58	56	54	52	49	46	43	39	35	29	20													
		50	64	62	60	58	56	54	51	49	46	43	39	34	28															
		60	62	60	58	56	53	51	48	45	42	38	33	26																
Shut-off PSI			178	169	161	152	143	135	126	117	109	100	91	83	74	65	57	48	39	31	22									
40GS757½		0										65	64	63	62	61	60	59	57	56	54	53	49	44	38	30				
		20								65	64	63	62	61	59	58	57	55	54	52	50	48	43	37	28					
		30							65	64	63	62	61	59	58	57	55	53	52	50	48	45	40	32	22					
		40						65	64	63	62	60	59	58	56	55	53	51	49	47	45	42	36	27						
		50					65	64	62	61	60	59	58	56	55	53	51	50	47	45	42	39	31	20						
		60			65	64	63	62	61	60	59	57	56	54	53	51	49	47	44	41	38	35	25							
Shut-off PSI			271	263	254	245	237	228	219	211	202	194	185	176	168	159	150	142	133	124	116	107	90	72	55	38				

6310N1E2

Overlap; combine use limits recommended

No Overlap

6310NEZ

Overlap; combine use limits recommended

No Overlap

RECEIVED

MAR 7 1966

REPORT OF WELL DRILLER State of Idaho

Department of Reclamation

State law requires that this report shall be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

WELL OWNER: _____ Area _____
Name Highway Department (Rest Area)
Address Boise, Idaho

Owner's Permit No. _____
NATURE OF WORK (check): Replacement well ☐
New well ☒ Deepened ☐ Abandoned ☐
Water is to be used for: Public drinking Service

METHOD OF CONSTRUCTION: Rotary ☐ Cable ☒
Dug ☐ Other _____ (explain) _____

CASING SCHEDULE: Threaded _____ Welded ☒
6 "Diam. from 41 ft. to 45 ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
"Diam. from _____ ft. to _____ ft.
Thickness of casing: .250 Material: _____
Steel ☒ concrete ☐ wood ☐ other ☐

(explain) _____
PERFORATED? Yes ☐ No ☒ Type of perforator used: _____

Size of perforations: _____ " by _____ "
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

WAS SCREEN INSTALLED? Yes ☐ No ☒
Manufacturer's name _____

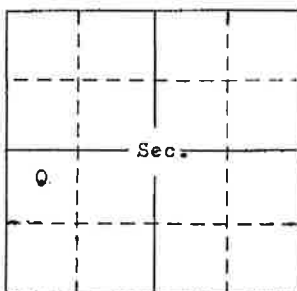
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

CONSTRUCTION: Well gravel packed? Yes ☐
No ☒ size of gravel _____ Gravel placed from _____ ft. to _____ ft. Surface seal provided? Yes ☐ No ☐ To what depth? _____ ft. Material used in seal: _____

Did any strata contain unusable water? Yes ☐
No ☒ Type of water: _____
Depth of strata _____ ft. Method of sealing strata off: _____

Surface casing used? Yes ☐ No ☐
Cemented in place? Yes ☒ No ☐

Locate well in section



LOCATION OF WELL: County Ida
NW ☒ SW ☒ Sec. 9 T. 23 N/S R. 1 E/W

Use other side for additional remarks

Size of drilled hole: 6" Total depth of well: 50' Standing water level below ground: 35' Temp. Fahr. 58 ° Test delivery: 7 + _____ gpm or _____ cfs Pump? ☒ Bail ☐
Size of pump and motor used to make test: _____

Length of time of test: 30 Hrs. Min.
Drawdown: 12' ft. Artesian pressure: _____ ft. above land surface _____ Give flow _____ cfs or _____ gpm. Shutoff pressure: _____
Controlled by: Valve ☐ Cap ☐ Plug ☐
No control ☐ Does well leak around casing? Yes ☐ No ☒

DEPTH		MATERIAL	WATER YES OR NO
FROM	TO		
FEET	FEET		
0	45	Broken-Rock Broken Rock	no
45	50	Bolder	no
50	51	Sand	yes

050946

Work started: 2/15 / 65
Work finished: 2/ 25/ 65
Well Driller's Statement: This well was drilled under my supervision and this report is true to the best of my knowledge.
Name: C.F. Baker

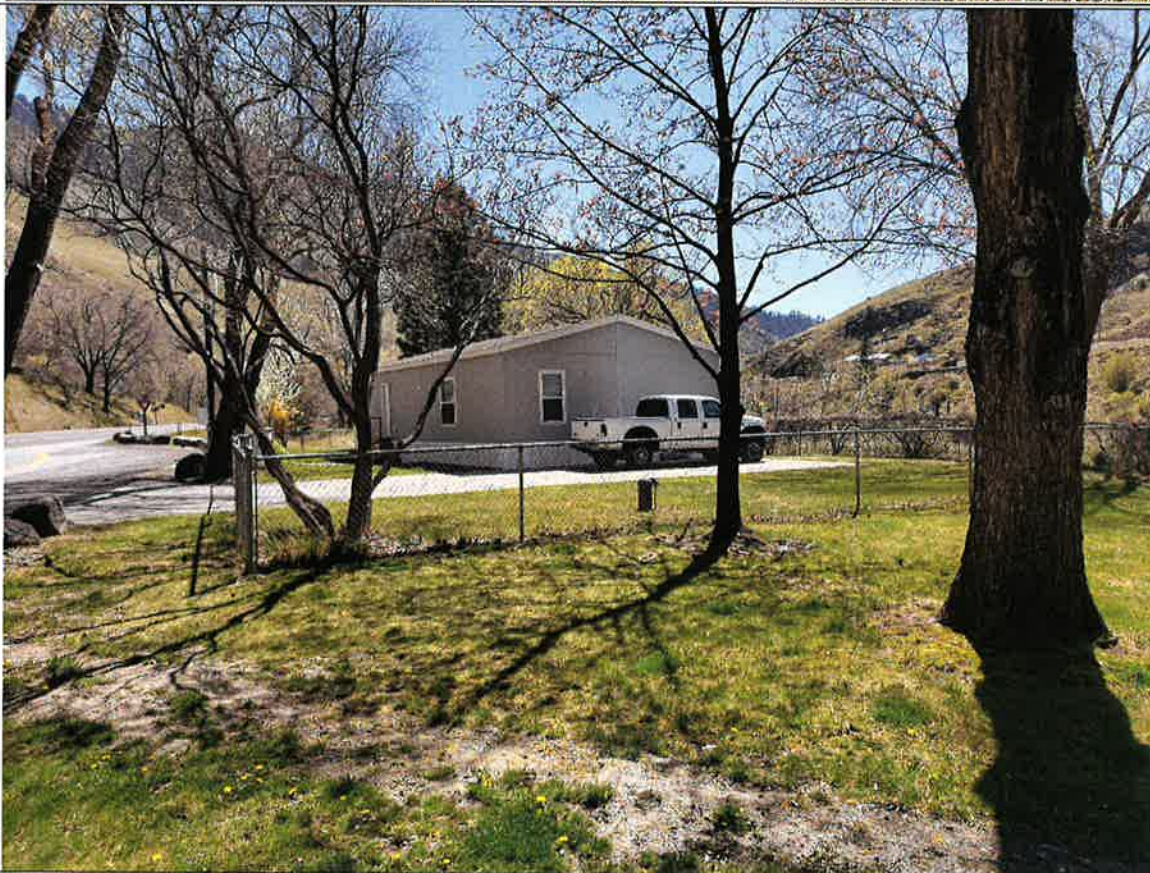
Address: Box 41 Middleton, Ida. 83644

Signed by: C.F. Baker
License No. 175 Date: 3/ 5/ 66

used



8" casing well and ~51 feet depth. 5 HP pump that is typically ran at 55 psi.



Well location and picture of the caretaker's residence. Irrigation includes watering around the parameter of the house.



Looking north showing the irrigated acres and bathroom facilities.



Entrance of the restroom area. Drinking fountain and hose bib shown in the picture.



Other drinking fountain to the left.



Maintenance sink in the pump room behind the restrooms.



Water and sewer lines to all the fixtures.



Water and sewer lines to the fixture in the women's bathroom and irrigation totalizer.



Irrigation totalizer



Three pressure tanks and domestic totalizer.



Domestic totalizer



North end of the
rest area irrigated.



Typical sprinkler head; TORO 570 Series

Office

Feb - march

Field's Chapter
2/20/18
3/28/18

SHEEP CREEK REST AREA
WATER METER READINGS
FOR THE MONTH/YEAR OF

DATE	TIME	DOMESTIC WATER (GALS)	IRRIGATION (GALS)	INITIALS
2/20/18	6:00 AM	223450.20	302526.00	JK
2/21/18	6:00 AM	223456.05		JK
2/22/18	6:30 AM	223462.30		JK
2/23/18	6:00 AM	223468.35		JK
2/24/18	6:00 AM	223475.80		JK
2/25/18	6:00 AM	223480.15		JK
2/26/18	6:00 AM	223485.62		JK
2/27/18	6:00 AM	223484.70		JK
2/28/18	6:00 AM	223496.60		JK
2/29/18	6:00 AM	223500.50		JK
2/29/18	6:00 AM	223510.17		JK
2/29/18	6:30 AM	223521.40		JK
2/29/18	6:00 AM	223526.03		JK
2/29/18	6:00 AM	223531.20		JK
2/29/18	6:50 AM	223536.70		JK
2/29/18	6:00 AM	223541.40		JK
2/29/18	6:15 AM	223549.70		JK
2/29/18	6:30 AM	223555.40		JK
2/29/18	6:00 AM	223565.80		JK
2/29/18	6:00 AM	223568.13		JK
2/29/18	6:00 AM	223573.17		JK
2/29/18	6:00 AM	223578.30		JK
2/29/18	6:00 AM	223585.10		JK
2/29/18	6:00 AM	223585.13		JK
2/29/18	6:00 AM	223600.00		JK
2/29/18	6:00 AM	223616.33		JK
2/29/18	6:00 AM	223622.35		JK
2/29/18	6:00 AM	223624.29		JK
2/29/18	6:00 AM	223638.26		JK
2/29/18	6:00 AM	223646.18		JK
2/29/18	6:00 AM	223654.12		JK
2/29/18	6:20 AM	223664.81		JK

Totalizer record from 3/1/2018 to 3/31/2018; domestic use only.

Van Dyke, Nick

From: Lester, Steve
Sent: Tuesday, December 24, 2013 1:55 PM
To: Van Dyke, Nick
Subject: 78-12170 on-site exam

Nick:

See file routed to your in-basket. Kay could not get replies from ITD for well at rest stop south of Riggins.

Per prior talks with Shelley, best to not void these sister agency ones, causes too many hard feelings etc.

Good on-site exam to confirm system & additional b.u. beyond 78-12166. Maybe Grangeville contact (proof form) or Lewiston contact can confirm local caretaker who knows the system etc.? Or maybe they can tell you pump etc. specs & you could confirm things in person with drop-by visit? That domestic rate seems pretty goofy!

Good day trip if find something else to do up that ways somewhere. Spring comes early in that canyon country so a nice early spring day might be fun trip. Please plan to do exam spring 2014. Thx

Steve



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

September 20, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

IDAHO TRANSPORTATION DEPARTMENT
PO BOX 837
LEWISTON ID 83501

RE: Water Right Permit No. 78-12170

Gentlemen:

On February 14, 2013, I sent you a request to assist our office in preparation of a water right license for the above referenced permit that had not been examined yet. I am enclosing a copy of that request for your convenience. As of this day, we have not had any contact from you in this regard.

Please submit any information you can provide concerning this permit within the next 60 days. If we don't receive any information we will assume you are no longer interested in pursuing a water right license for this permit. We will then prepare an Order to void the permit for failure to submit requested information.

If you have any questions in regard to this request, please do not hesitate to contact me at 334-2190, or by e-mail at: kay.walker@idwr.idaho.gov. Thank you for your attention to this matter.

Sincerely,

KAY WALKER
Sr. Water Resource Agent

Enclosure

No response
from right
holders - per
Steve we should
now do on-site
exam -
pw
12/20/13



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: www.idwr.idaho.gov

February 14, 2013

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Interim Director

IDAHO TRANSPORTATION DEPARTMENT
PO BOX 837
LEWISTON ID 83501

Re: Water Right Permit No. 78-12170

Gentlemen:

Our department is in the process of clearing our backlog of water right permits that need field examined. We find that the permit listed above is in this category and we would like to request your help in completing this process. We have found that most permits held by state agencies could be examined in the office if we had assistance from those employees who are familiar with the developments. If you could provide information such as "as built" information, diagrams of the water system, photos, project names or numbers or any combination it would be helpful. We see that the well has been GPS'd by IDEQ so the location of the well has been verified.

Permit No. 78-12170 was issued for use of an existing well. I found two wells logs for wells drilled in 1965 that are in the location of the rest area. I did not find a well log for a 100' well that was drilled in October of 1969. If you have a well log for this well, please send me a copy for our file. It would also be helpful if you could tell me what size of pump is in the well and about how much water is used from the well each day. The permit includes domestic use for the rest stop and 1 home, and the irrigation of 4 acres. It is noted on the tax lot information for Sheep Creek Rest Area that it is only 3 acres in size and the permit was issued for 4 acres. Since a portion of the land is under buildings, it would be helpful if you could describe how much land is actually being irrigated from the well. We can see the rest area on our aerial photography but not the home that was to be developed. Please mark the location of the home on the enclosed aerial photo and return it with as much information as you can in regard to the well and the pump.

We also find that the Transportation Department was issued a decreed water right in November of 2007 for domestic use at this rest area. If Rt. 78-12166 is sufficient to cover the domestic use at the rest area, we can only allow domestic use for the home under any license for this permit.

If you have any questions regarding my request, please feel free to contact me at 334-2190 or by e-mail at: kay.walker@idwr.idaho.gov. Thank you for your help in this matter.

Sincerely,

KAY WALKER
Sr. Water Resource Agent