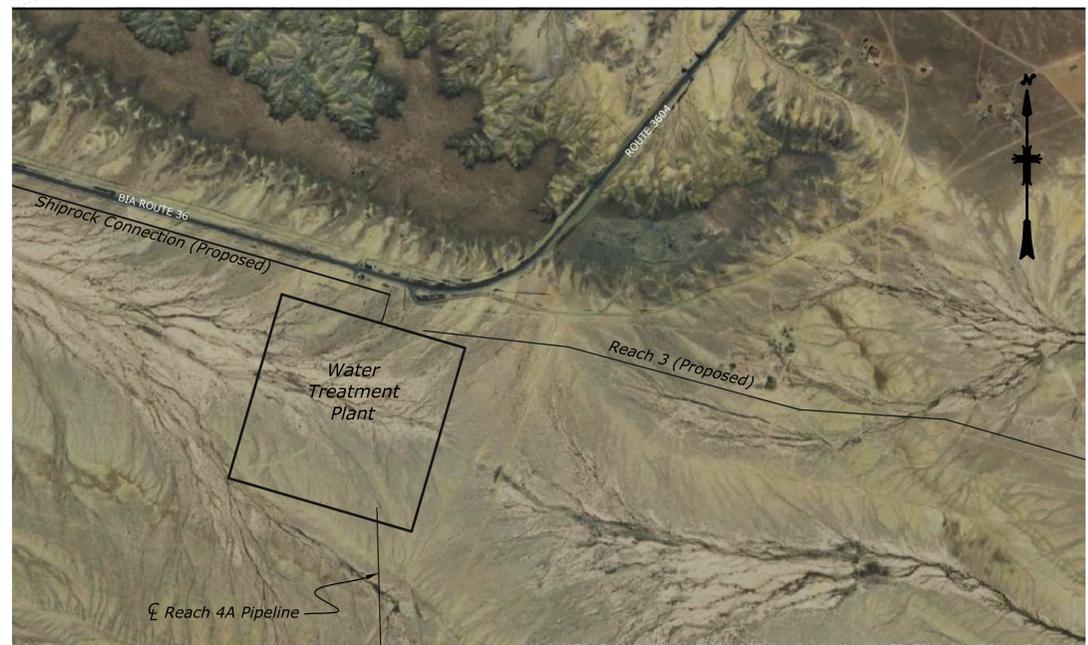
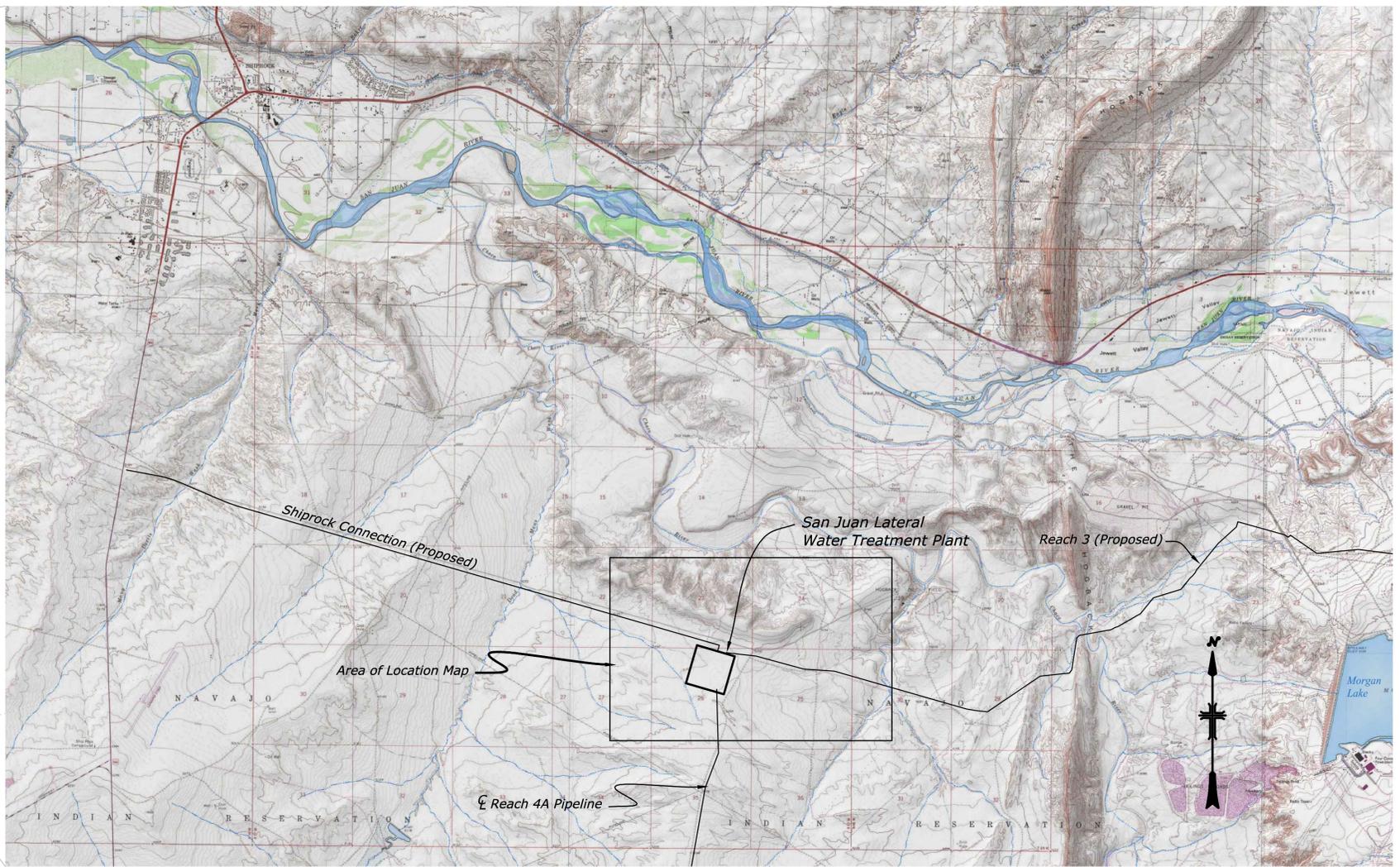
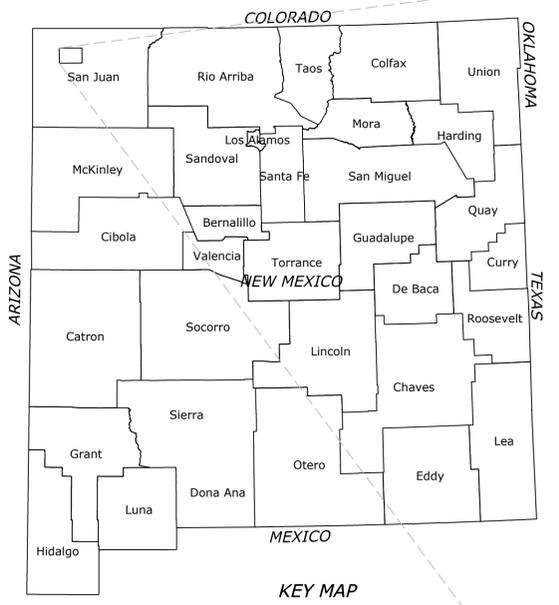


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U.S. DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
NAVAJO-GALLUP WATER SUPPLY PROJECT  
NEW MEXICO  
**SAN JUAN LATERAL**  
WATER TREATMENT PLANT

REV NO 1  
DATE 2023-01-19  
PROJECT 529  
DESCRIPTION UPDATED SHIPROCK CONNECTION, REACH 3 ALIGNMENT, IMAGE FILE FOR LOCATION MAP AND DRAWING BORDER BLOCK.  
DRAWN BY Paul Gardner  
CHECKED BY Beyer, Christopher R  
TECH. APPR. Longwell, Barry D  
APPROVED ADMIN APPROVAL - Project Construction Engineer  
FARMINGTON, NM 2018-07-27

D. Thornburg  
DESIGNED  
D. Thornburg  
DRAWN  
Paul Gardner  
CHECKED  
Beyer, Christopher R  
TECH. APPR.  
Longwell, Barry D  
APPROVED  
ADMIN APPROVAL - Project Construction Engineer  
FARMINGTON, NM 2018-07-27

LOCATION MAP

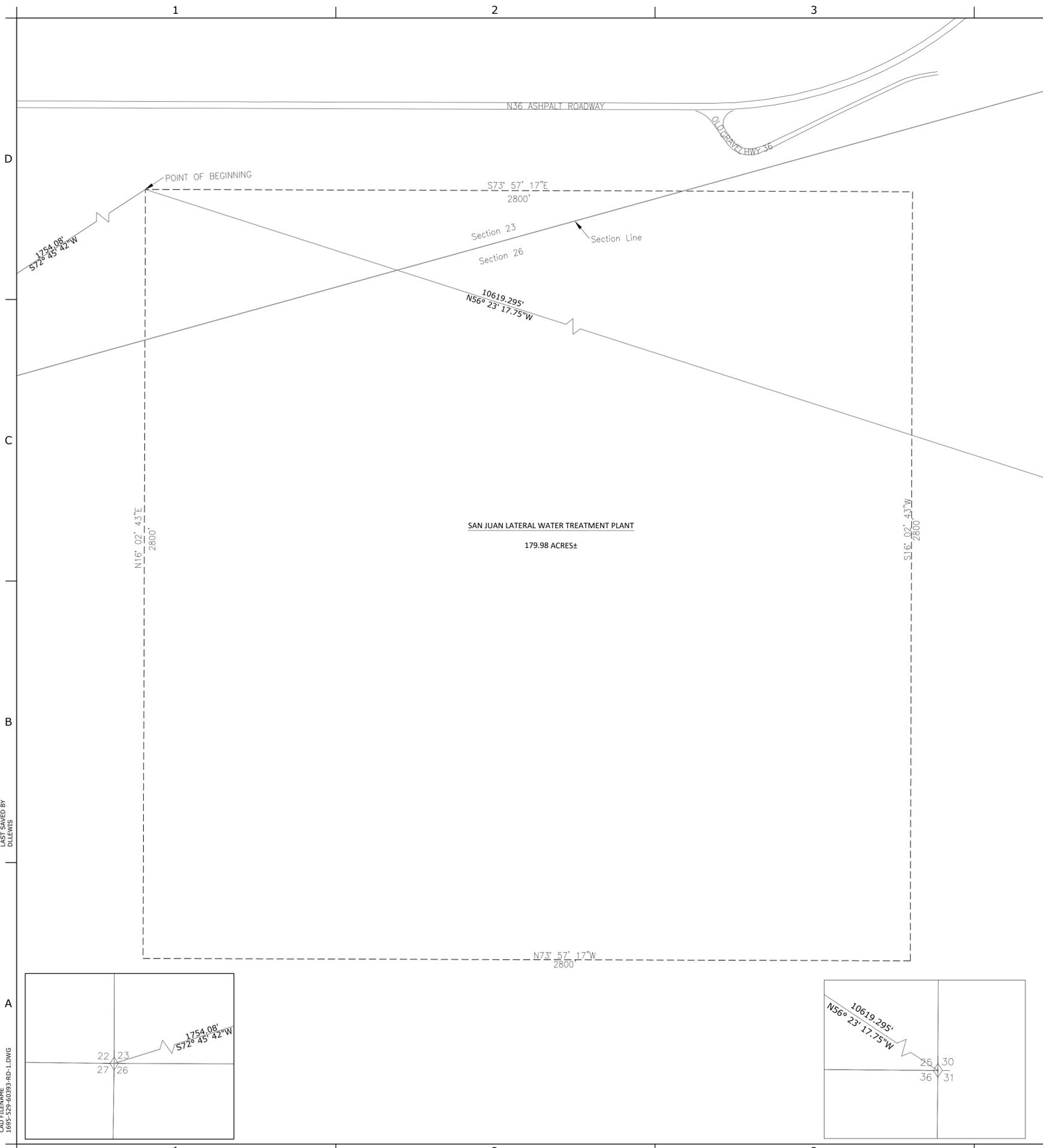
REFERENCE DRAWINGS

General Map.....1695-529-60181.  
General Geologic Legend, Explanation and Notes.....1695-529-60234.  
Location of Exploration and Sections.....1695-529-60208.

LAST SAVED DATE  
2023-01-19  
BY DTHORNBURG

CAD SYSTEM  
ASSOCIATION (LMS TECH)  
1695-529-60182-RD-1.DWG





**LEGEND**

-  PROPERTY BOUNDARY
-  SECTION LINE
-  MONUMENT TIE-IN

**NOTE**

Bearings shown on this drawing are developed from the New Mexico State Plane West Zone Grid (NAD83) and are based on surveys of existing monuments. Distances shown are ground (local). The Grid Factor from distances shown to New Mexico State Plan West Zone Grid (NAD83) is 0.999713762328.

No monuments will be set.

**SCALE OF FEET**



**Found Section Corner Monument**



STATE OF NEW MEXICO  
COUNTY OF SAN JUAN

\_\_\_\_\_, being duly sworn, says that he is the Construction Engineer of the Four Corners Construction Office, U. S. Bureau of Reclamation: That the survey of San Juan Lateral Water Treatment Plant, Navajo-Gallup Water Supply Project, over and across Navajo Nation Trust Lands of New Mexico, in the county of San Juan, New Mexico, was made under his direction and authority of the Bureau of Reclamation, and that such survey is accurately represented on this map.

\_\_\_\_\_  
Construction Engineer Date

STATE OF NEW MEXICO  
COUNTY OF SAN JUAN ss:

Before me, a notary public, in and for said County and State on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ personally appeared

\_\_\_\_\_ known to me to be the person whose name is subscribed to the foregoing instrument as the Construction Engineer of the Four Corners Construction Office, U. S. Bureau of Reclamation, and acknowledged to me that he executed said instrument for the uses and purposes therein set forth.

My commission expires \_\_\_\_\_

\_\_\_\_\_  
Notary Public

SEAL

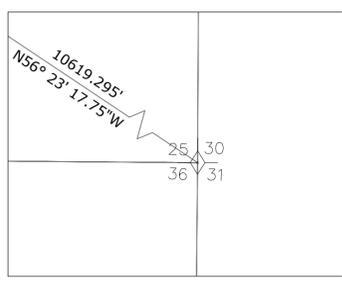
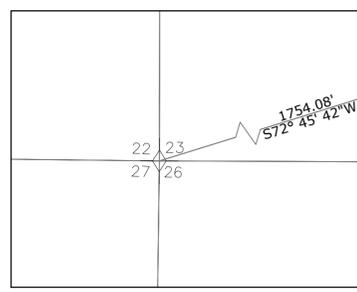
Navajo-Gallup Water Supply Project – Parcel No. SJLWTP-01(P) – Permanent Property Boundary – Navajo Nation Trust Land – San Juan County, New Mexico

Parcel No. SJLWTP-01(P) is described as a parcel of land lying in Section 23 and Section 26, Township 29 North, Range 17 West, N.M.M.P, lying within Navajo Trust Lands, being more particularly described as follows:  
Point of Beginning being said Property Boundary a point Section 23, Township 29 North, Range 17 West, Section Monument bears South 72°45'42" West a distance of 1754.08', thence South 73°57'17" East, 2800.00 feet, thence South 16°02'43" West, 2800.00 feet; thence North 73°57'17" West, 2800.00 feet; thence North 16°02'43" East, 2800.00 feet to a point of beginning.

Parcel No. WTP-01(P) contains 179.98 acres more or less.

LAST SAVED DATE  
2023-01-18  
LAST REVISED BY  
DLEWIS

CAD SYSTEM  
AUGCAD 24.06 (LMS TECH)  
1695-529-60393-RD-1.DWG



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BUREAU OF RECLAMATION  
NAVAJO-GALLUP WATER SUPPLY PROJECT  
NEW MEXICO  
**SAN JUAN LATERAL-WATER TREATMENT PLANT**

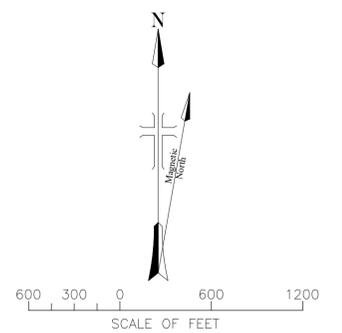
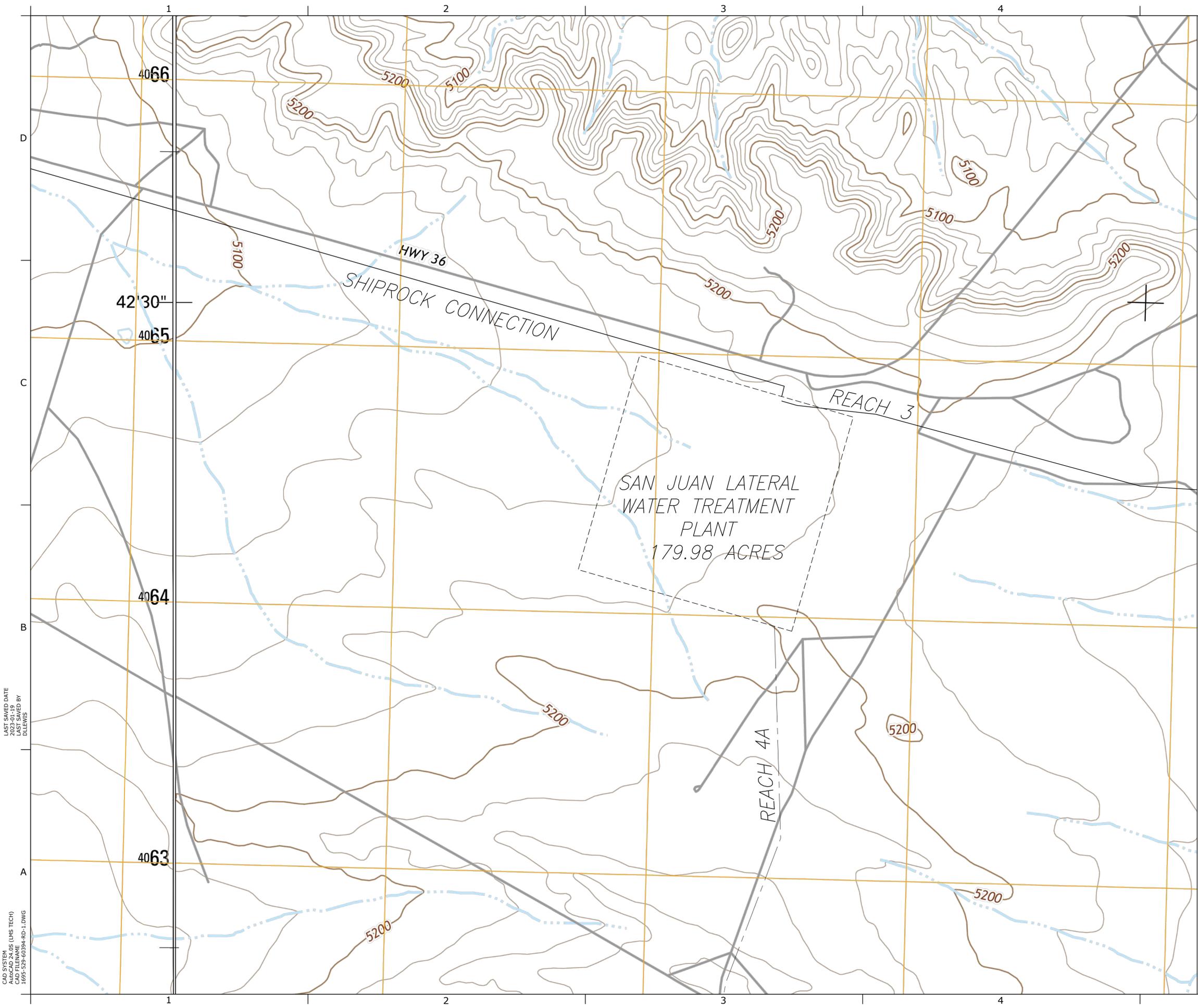
D. LEWIS  
DESIGNED  
D. LEWIS  
DRAWN  
M. BRAMAN  
CHECKED  
R. GLADDEN  
TECH. APPR.  
B. DEMING  
APPROVED  
ADMIN APPROVAL  
FARMINGTON, NM

**PERMANENT EASEMENT**

**PARCEL NO. SJLWTP-01P TRIBAL TRUST**

**1695-529-60393**

SHEET 1



TOWNSHIP 26 NORTH, RANGE 29 WEST, NMPM  
 COUNTY OF SAN JUAN, STATE OF NEW MEXICO  
 USGS QUADS ARE BASED ON THE NEW MEXICO STATE  
 PLANE COORDINATE SYSTEM, WEST ZONE, NAD83  
 20' CONTOURS BASED ON NATIONAL ELEVATION  
 DATASET, 2000

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 BUREAU OF RECLAMATION  
 NAVAJO-GALLUP WATER SUPPLY PROJECT  
 NEW MEXICO

**SAN JUAN LATERAL-WATER  
 TREATMENT PLANT**  
 USGS TOPOGRAPHIC MAP

D. LEWIS  
 DESIGNED  
 D. LEWIS  
 DRAWN  
 CHECKED  
 TECH. APPR.  
 APPROVED  
 ADMIN APPROVAL  
 FARMINGTON, NM

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 2023-01-19  
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 DLEWIS

CAD SYSTEM  
 AUCAD 24.0US (LMS TECH)  
 1695-529-60394-RD-1.DWG

1

2

3

4

5

D

C

B

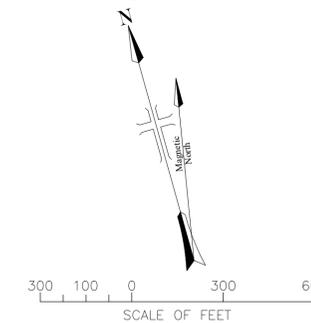
A

D

C

B

A



TOWNSHIP 26 NORTH, RANGE 29 WEST, NMPM  
 COUNTY OF SAN JUAN, STATE OF NEW MEXICO  
 BEARINGS ARE BASED ON THE NEW MEXICO STATE PLANE  
 COORDINATE SYSTEM, WEST ZONE, NAD83  
 20' CONTOURS BASED ON NATIONAL ELEVATION  
 DATASET, 2000

N36 ASPHALT ROADWAY

OLD HWY 36

FUTURE SHIPROCK CONNECTION

PROPOSED REACH 3

S73° 57' 17" E

2800'

NOTE:  
 6.2± MILES TO THE INTERSECTION OF  
 U.S. HIGHWAY 491 AND N36,  
 3 MILES SOUTH OF SHIPROCK, NEW  
 MEXICO.

SAN JUAN LATERAL WATER TREATMENT PLANT

179.98 ACRES±

N16° 02' 43" E

2800'

N16° 02' 43" E

2800'

S73° 57' 17" E

2800'

PROPOSED REACH 4A

LEGEND & ACRONYMS

EASEMENT LINE

ALWAYS THINK SAFETY



U.S. DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 NAVAJO-GALLUP WATER SUPPLY PROJECT  
 NEW MEXICO  
**SAN JUAN LATERAL-WATER  
 TREATMENT PLANT**  
 PROJECT AERIAL MAP

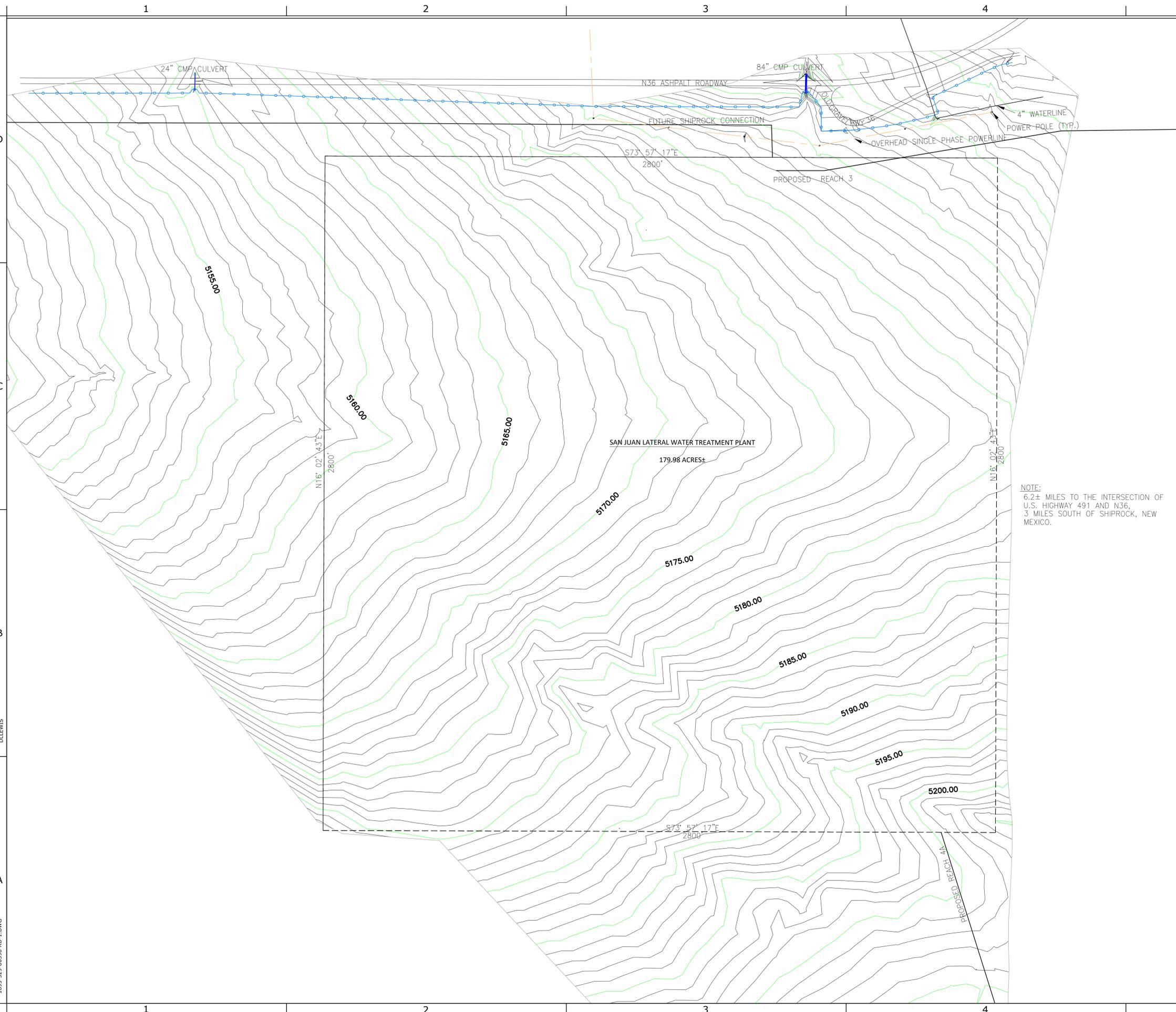
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 D. LEWIS  
 DRAWN  
 CHECKED  
 TECH. APPR.  
 APPROVED  
 ADMIN APPROVAL  
 FARMINGTON, NM

1695-529-60395

SHEET 1

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 DLEWIS

CAD SYSTEM  
 AUCAD 2008 (LMS TECH)  
 1695-529-60395-RD-1.DWG



SCALE OF FEET  
 200 100 0 200 400  
 TOWNSHIP 26 NORTH, RANGE 29 WEST, NMPM  
 COUNTY OF SAN JUAN, STATE OF NEW MEXICO  
 BEARINGS ARE BASED ON THE NEW MEXICO STATE PLANE  
 COORDINATE SYSTEM, WEST ZONE, NAD83  
 1' CONTOURS FROM TOPOGRAPHIC SURVEYS  
 CONDUCTED BY BUREAU OF RECLAMATION DATED  
 FEBRUARY 28, 2018 & SEPTEMBER 14, 2018



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 U.S. DEPARTMENT OF THE INTERIOR  
 BUREAU OF RECLAMATION  
 NAVAJO-GALLUP WATER SUPPLY PROJECT  
 NEW MEXICO  
**SAN JUAN LATERAL-WATER  
 TREATMENT PLANT**  
 SURVEY TOPOGRAPHIC MAP

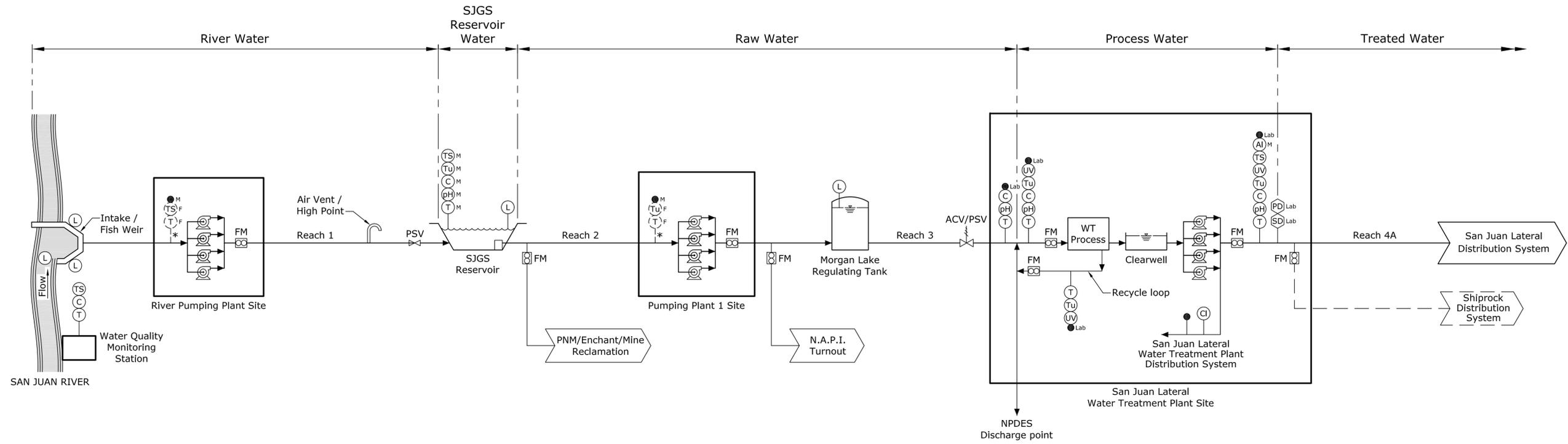
D. LEWIS  
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 D. LEWIS  
 DRAWN  
 CHECKED  
 TECH. APPR.  
 APPROVED  
 ADMIN APPROVAL  
 FARMINGTON, NM

**LEGEND & ACRONYMS**  
 ——— EASEMENT LINE  
 ——— POWER POLE & POWER LINE  
 ——— FENCE  
 ——— WATERLINE

1695-529-60396  
 SHEET 1

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 AUCAD 2408 (LMS TECH)  
 1695-529-60396-RD-1.DWG



ABBREVIATIONS

- ACV - Altitude Control Valve
- Al - Alkalinity
- C - Conductivity
- Cl - Chlorine
- cPWS - Consecutive Public Water System
- F - Potential future continuous monitoring (as required)
- FM - Flowmeter
- L - Level
- Lab - Water piped from the sample point to the Water Treatment Plant lab
- M - Manual/grab sampling for process monitoring
- MC - Metals by correlation to other regulated metals (e.g. Arsenic)
- PD - Primary Drinking Water Regulation
- pH
- PRV - Pressure Reducing Valve
- PSV - Pressure Sustaining Valve
- SD - Secondary Drinking Water Regulation
- TS - Total Suspended Solids / Suspended Sediment Concentration
- T - Temperature
- Tu - Turbidity
- UV - Ultraviolet 254

LEGEND

- \* - Install SCADA and instrument power infrastructure for drain plumbing and potential future monitoring equipment
- Typical Main Process Flow
- Process Flow
- Future use
- ⊗ Pump
- Sensor
- Sensor (future)
- ◇ Sample location for regulatory compliance
- ◇ Regulated metals (indicator contaminant)
- Sample point

NOTES

1. Continuous monitoring assumed for all sensors, unless otherwise noted.

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 BUREAU OF RECLAMATION  
 NAVAJO-GALLUP WATER SUPPLY PROJECT  
 NEW MEXICO  
 SAN JUAN LATERAL  
 Draft  
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DESIGNED	Robert D. Rodriguez
DRAWN	
CHECKED	
TECH. APPR.	
APPROVED	
PEER REVIEWER	
DENVER, CO	YYYY-MM-DD

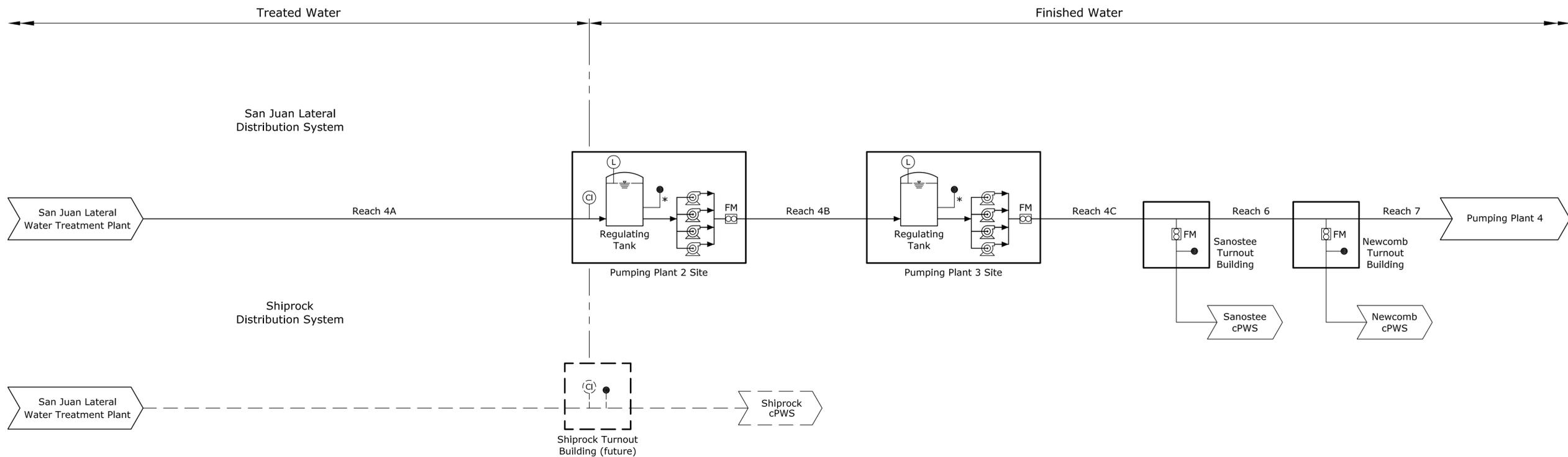
SAN JUAN LATERAL  
RAW WATER  
CONVEYANCE SYSTEM

PROCESS FLOW  
DIAGRAM

FIGURE 1  
SHEET 1

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CUS SYSTEM  
 AUTOCAD 2K (LMS TECH)  
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ABBREVIATIONS

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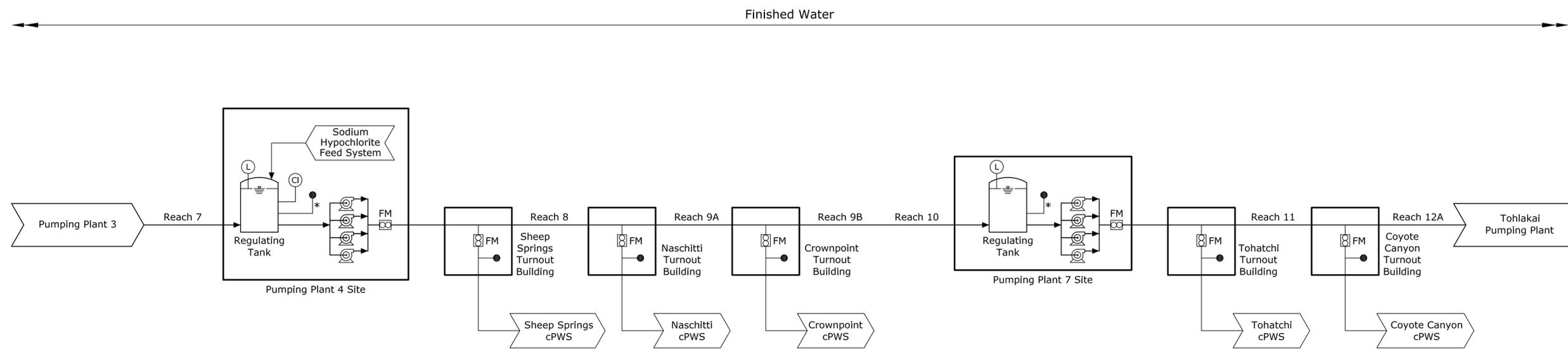
SAN JUAN LATERAL AND SHIPROCK DISTRIBUTION SYSTEMS

PROCESS FLOW DIAGRAM

FIGURE 2  
SHEET 1

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CUS SYSTEM  
 AUC/CAD/2K (LMS TECH)  
 CAD FILENAME  
 SJL-SCHEMATIC\_20230131.DWG



**ABBREVIATIONS**

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**LEGEND**

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- - - Future use
- ⊗ Pump
- Sensor
- Sensor (future)
- ◇ Sample location for regulatory compliance
- ◇ Regulated metals (indicator contaminant)
- Sample point

**NOTES**

1. Continuous monitoring assumed for all sensors, unless otherwise noted.

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 NAVAJO-GALLUP WATER SUPPLY PROJECT  
 SAN JUAN LATERAL  
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DESIGNED	Robert D. Rodriguez
DRAWN	
CHECKED	
TECH. APPR.	
APPROVED	
PEER REVIEWER	
DENVER, CO	YYYY-MM-DD

**SAN JUAN LATERAL DISTRIBUTION SYSTEM**

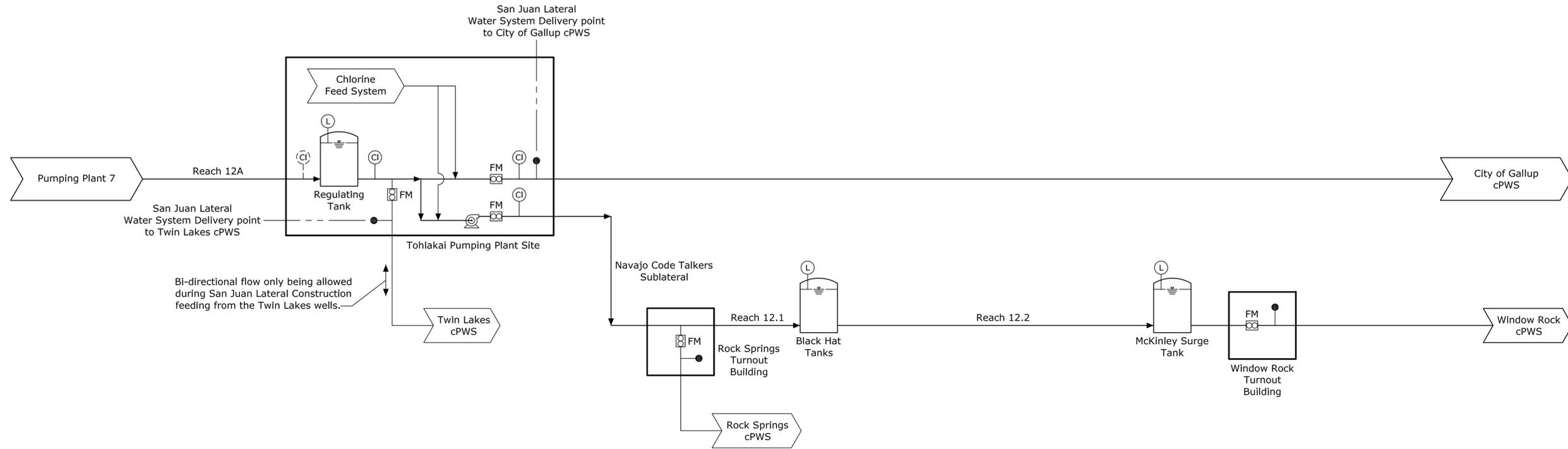
PROCESS FLOW DIAGRAM

**FIGURE 3**  
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Finished Water



Bi-directional flow only being allowed during San Juan Lateral Construction feeding from the Twin Lakes wells.

ABBREVIATIONS

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- Sensor (future)
- ⬡ Sample location for regulatory compliance
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- Sample point

NOTES

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 NEW MEXICO  
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APPROVED	
PEER REVIEWER	
DENVER, CO	YYYY-MM-DD

SAN JUAN LATERAL DISTRIBUTION SYSTEM

PROCESS FLOW DIAGRAM

FIGURE 4

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