

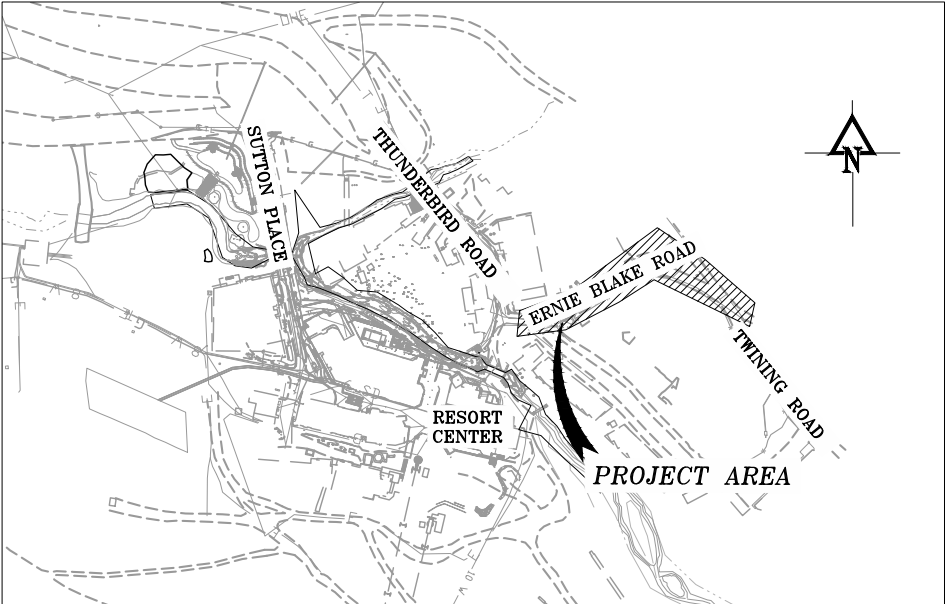
General Notes:

- 1) These plans, Village of Taos Ski Valley (VTSV), the New Mexico Standard Specifications for Public Works Construction and New Mexico Department of Transportation (NMDOT), including details and technical specifications shall be the governing documents for construction activities relating to this project. When conflicts exist, the most stringent shall prevail followed by the governing documents in the above order of priority. Field conditions may exist that require changes to drawings. If such conditions are encountered, the governing documents shall prevail in the above order of priority.
- 2) The contractor is responsible for obtaining all required permits prior to the commencement of any work on the project.
- 3) An Excavation Permit for Work in the Public Ways shall be obtained prior to commencement of work within the public right-of-way (R.O.W).
- 4) The contractor shall be responsible for notifying the owner/developer of any problems in conforming to the approved plans for any element of the proposed improvements prior to its construction.
- 5) Taos Ski Valley Inc (TSV) or it's designated representative shall be responsible during construction activities to resolve construction problems due to changed conditions or design errors encountered by the contractor during the progress of any portion of the proposed work. If the modifications proposed by TSV, VTSV or the engineer to the approved plans involve changes to the character of the work or to future contiguous public or private improvements, the engineer shall be responsible for submitting revised plans to the appropriate agencies for approval prior to any further construction related to that portion of the work. Any improvements not constructed in accordance with the approved plans or the approved revised plans shall be removed and the improvements shall be reconstructed according to the approved plans.
- 6) The contractor shall contact the appropriate agencies for location of underground gas, electric, telephone, water and sewer utilities at least 48 hours prior to commencement of construction.
- 7) The contractor shall be responsible for providing a copy of RECORD DRAWINGS to the USFS, ACOE, VTSV, and Engineer prior to final acceptance of work.
- 8) The contractor shall notify the appropriate parties at least 48 hours prior to desired inspections.
- 9) The contractor shall reset all Survey Monuments disturbed during construction within 60 days of project completion.
- 10) The contractor shall be solely and completely responsible for conditions at and adjacent to the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours.
- 11) The duty of the representative for TSV or Russell Planning & Engineering to conduct construction review of the contractor's performance is not intended to include review of the adequacy of the contractor's safety measures in, on, or near the construction site.
- 12) The contractor shall limit staging and stockpiling of materials to the staging areas previously approved by VTSV or TSV, unless otherwise approved by Property Owner in writing. All debris, trash, slash and excess material shall be immediately removed from the project site and either transported to other TSV property as directed and approved by TSV, or disposed of as required by County Codes and Regulations. No excess material shall be disposed of on USFS property.
- 13) VTSV approval must be obtained prior to stockpiling of material on VTSV R.O.W.'s or other VTSV lands or easements.
- 14) Survey provided by "Red Tail Surveying, Inc."
301-A Hinde Street Taos, NM 87571. Phone:(575) 758-7441
BENCHMARK NORTH, N:2038355.62 E:1875614.34 ELEV:9380.77'
BENCHMARK SOUTH, N:2038022.11 E:1875586.34 ELEV:9391.84'
- 15) The contractor shall provide all lights, signs, barricades, flagmen or other devices necessary to provide for public safety in accordance with the current Manual on Uniform Traffic Control Devices.
- 16) The contractor shall provide ingress and egress to private property adjacent to the work throughout the period of construction and prior to beginning work shall obtain written agreement from the affected property owners impacted by this access.
- 17) Prior to final placement of surface pavement, all underground utility mains shall be installed and service connections stubbed out beyond curb line when allowed by the utility. Service from public utilities and from sanitary sewers shall be made available for each lot in such a manner that will not be necessary to disturb the street pavement, curb, gutter, and sidewalk when connections are made.

RECORD DRAWINGS

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VILLAGE OF TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
TAOS COUNTY, NEW MEXICO



VICINITY MAP
N.T.S.

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REVISIONS:

△	06/29/2018 3:11 FILL SLOPE REVISION
△	07/31/2018 UTILITY REVISIONS

TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
COVER SHEET

Russell Planning & Engineering, Inc.
Civil Engineering Services
934 Main Avenue, Unit C
Durango, Colorado 81301
Phone: (970) 385-4546
Fax: (970) 385-4502



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C-001B

ALL SURVEY AND COORDINATE
INFORMATION CONTAINED IN THESE
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Grading and Drainage Notes:

- 1) It is the Special Use Permit (SUP) holder's and their Contractor's responsibility to provide all needed equipment and other means of dust abatement and control to avoid wind erosion of excavated material and local nuisance dust to neighboring businesses and residences in the Village and forest visitors accessing local recreation destinations.
- 2) Any settlement or soil accumulations beyond the limits of construction due to grading or erosion shall be repaired immediately by the contractor.
- 3) Any construction debris or mud tracking on adjacent streets, or any other private or public drive shall be removed immediately by the contractor in accordance with the Storm Water Pollution Prevention Plan (SWPPP). The contractor shall immediately fix any excavations or excessive pavement failures caused by the construction and shall properly barricade the site until construction is complete. Failure by the contractor to correct any of the above within 48 hours of written notice by TSV or VTSV shall result in a stop work order and/or do the work and make a claim against the letter of credit for any cost incurred by the agency.
- 4) Areas being disturbed by the grading shall be reseeded with native vegetation or as approved on the development plan or SWPPP.
- 5) A Storm Water Pollution Protection Plan (SWPPP) shall be included as part of grading permit for this project.

Utility Notes:

- 1) All horizontal dimensions are to the center of pipe.
- 2) Length of pipe called out in plans is the 3D length of the pipe from inner structure wall to inner structure wall.
- 3) Structure coordinates are given at center of structure.
- 4) Pipeline stationing is along the center line of the new pipe.
- 5) The contractor shall have in his possession at all times one (1) signed copy of plans and specifications which have been approved by The USFS and VTSV.
- 6) The existing sanitary sewer lines shall remain in service during the new sewer line construction.
- 7) All manholes shall be pre-cast concrete with joint gaskets and joint wrap.
- 8) All manhole ring and covers shall be installed with a maximum of 6" of concrete adjustment collars (riser rings).
- 9) The contractor shall backfill the trench up to the existing roadway surface, providing a smooth driving surface. In this manner, the contractor can asphalt pave large sections of trench at one time while still providing a usable roadway.
- 10) The contractor shall inform the construction observer 24 hours in advance when trench will be ready for compaction tests. The owner shall retain a geotechnical testing laboratory to perform all required test. The contractor shall be responsible for the costs of any re-testing required as a result of failed test results. testing shall be performed by the original geo-tech firm.
- 11) Where construction occurs in or across asphalt or concrete pavement, saw cut the pavement for a clean straight edge 6" outside the trench limits to allow clean removal and a good surface for proper patching.
- 12) All pavement saw cuts shall be 90° to one another.
- 13) The contractor shall repair or replace any public or private improvements in kind including but not limited to: residential services, water lines, sewer lines, storm drains, etc., that were removed or damaged during construction.
- 14) The contractor shall relocate street signs temporarily during construction, then replace as required, including t-lock base, metal post, mounting hardware, etc.
- 15) The contractor shall be responsible for protection of all existing asphalt from construction equipment. Damaged asphalt shall be replaced by the contractor at his expense.
- 16) Contractor shall pothole all utility crossing and tie in points prior to construction to verify position and depth in order to check for interference with proposed lines. Conflicts shall be addressed before pipe installation.
- 17) All storm sewer pipe shall be ADS smooth lined corrugated plastic pipe (SLCPP) or engineer-approved equivalent. All storm pipe joints shall be Integral Bell with water tight gasket.
- 18) All sanitary sewer mains shall be SDR-11 HDPE.
- 19) All sanitary sewer connections shall be heat fusion-welded. All pipe to pipe connections of HDPE to other pipe material shall be heat fusion-welded
- 20) Contractor shall video camera all existing sewer lines prior to construction in order to determine locations of all existing sanitary sewer service connections.
- 21) All concrete shall have a minimum 28-day strength of 4000 PSI. Where specifications conflict use the more stringent rating.
- 22) All new water mains shall be Ductile Iron Pipe, class 350, cement lined, and asphalt coated. All joints and fitting connections shall be mechanically restrained with Mega-log or engineer approved equal.
- 23) All sanitary sewer manholes shall be concrete with waterproofing admixture, Ram-Nek gaskets and exterior joint wrap with LinkSeal® connections for pipe penetrations.


RECORD DRAWINGS

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REVISIONS:

TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
GENERAL NOTES CONTINUED



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Phone: (970) 385-4546
Fax: (970) 385-4502

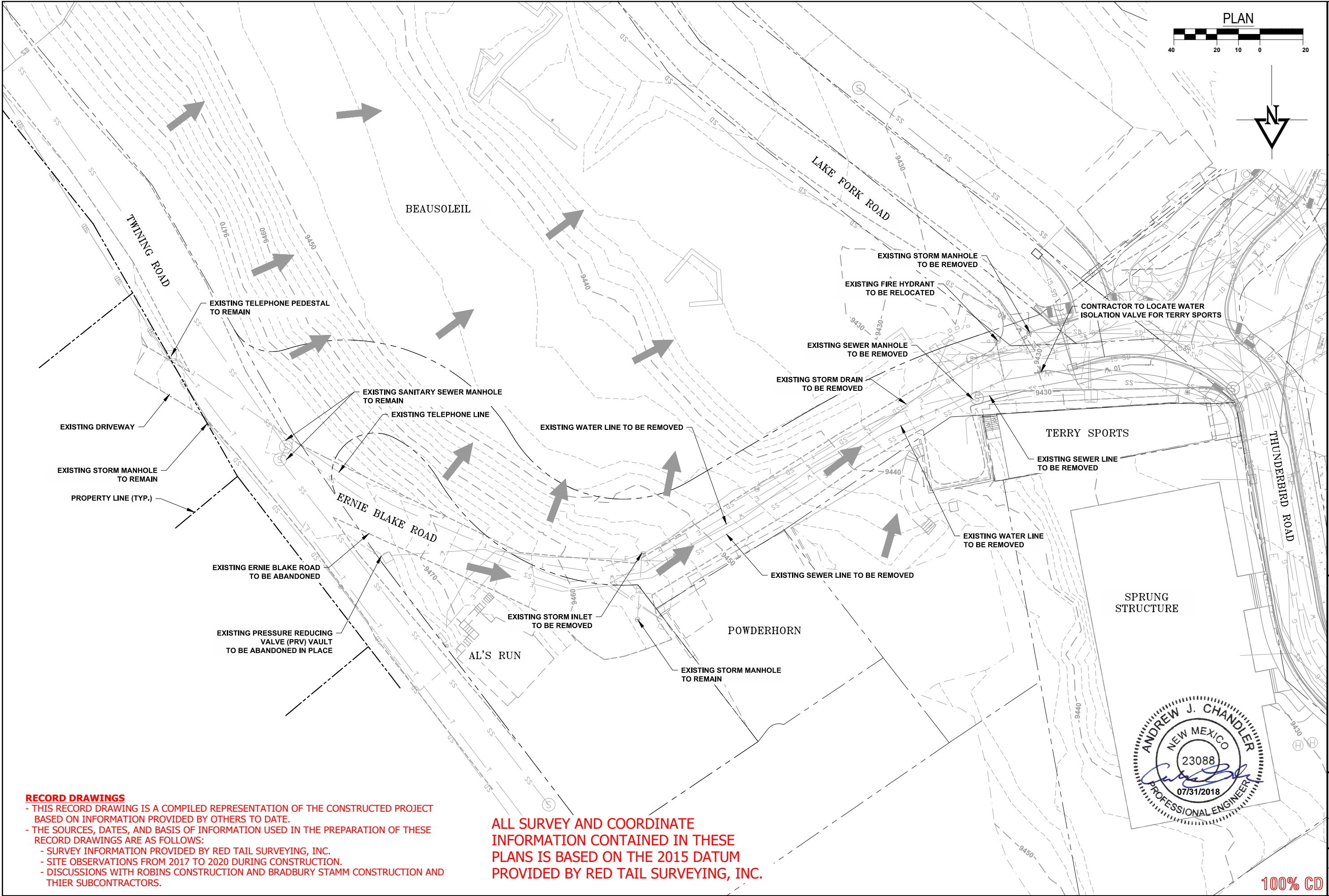
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2 OF **40**

C-002

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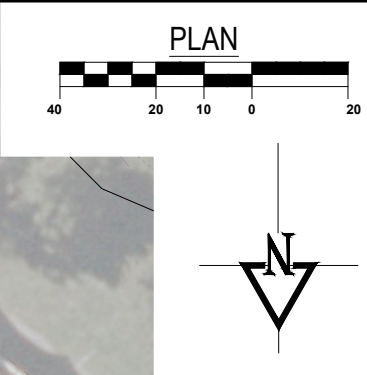
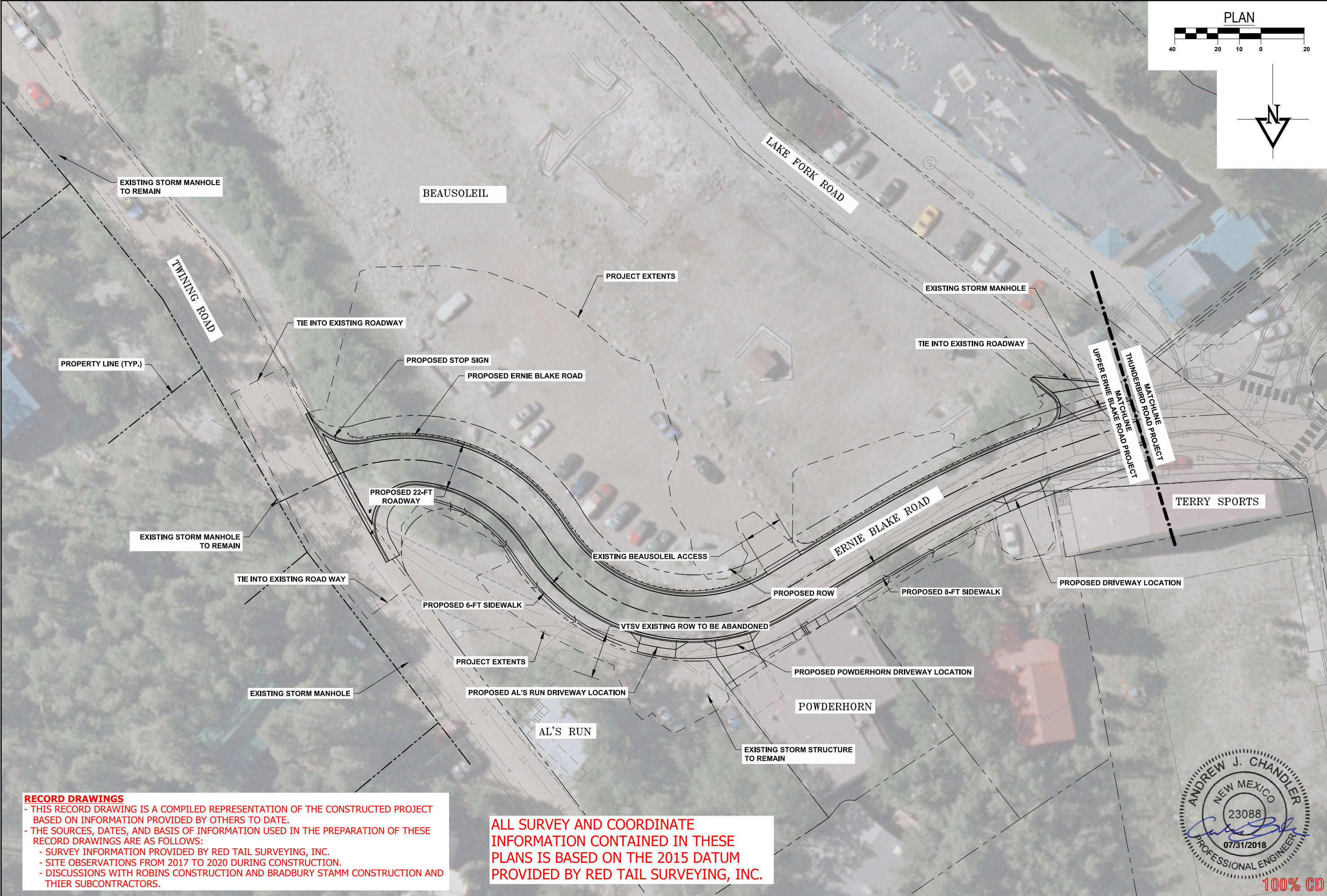
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REVISIONS:		
TAOS SKI VALLEY UPPER ERNIE BLAKE ROAD EXISTING CONDITIONS AND REMOVAL PLAN		
Russell Planning & Engineering, Inc. Civil Engineering Services 934 Main Avenue, Unit C Durango, Colorado 81301 Phone: (970) 385-4546 Fax: (970) 385-4502		
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C-101		100% CD



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REVISION

TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
SITE PLAN

Russell Planning & Engineering, Inc.

Civil Engineering Services

934 Main Avenue, Unit C

Durango, Colorado 81301

Phone: (970) 385-4546

Fax: (970) 385-4502

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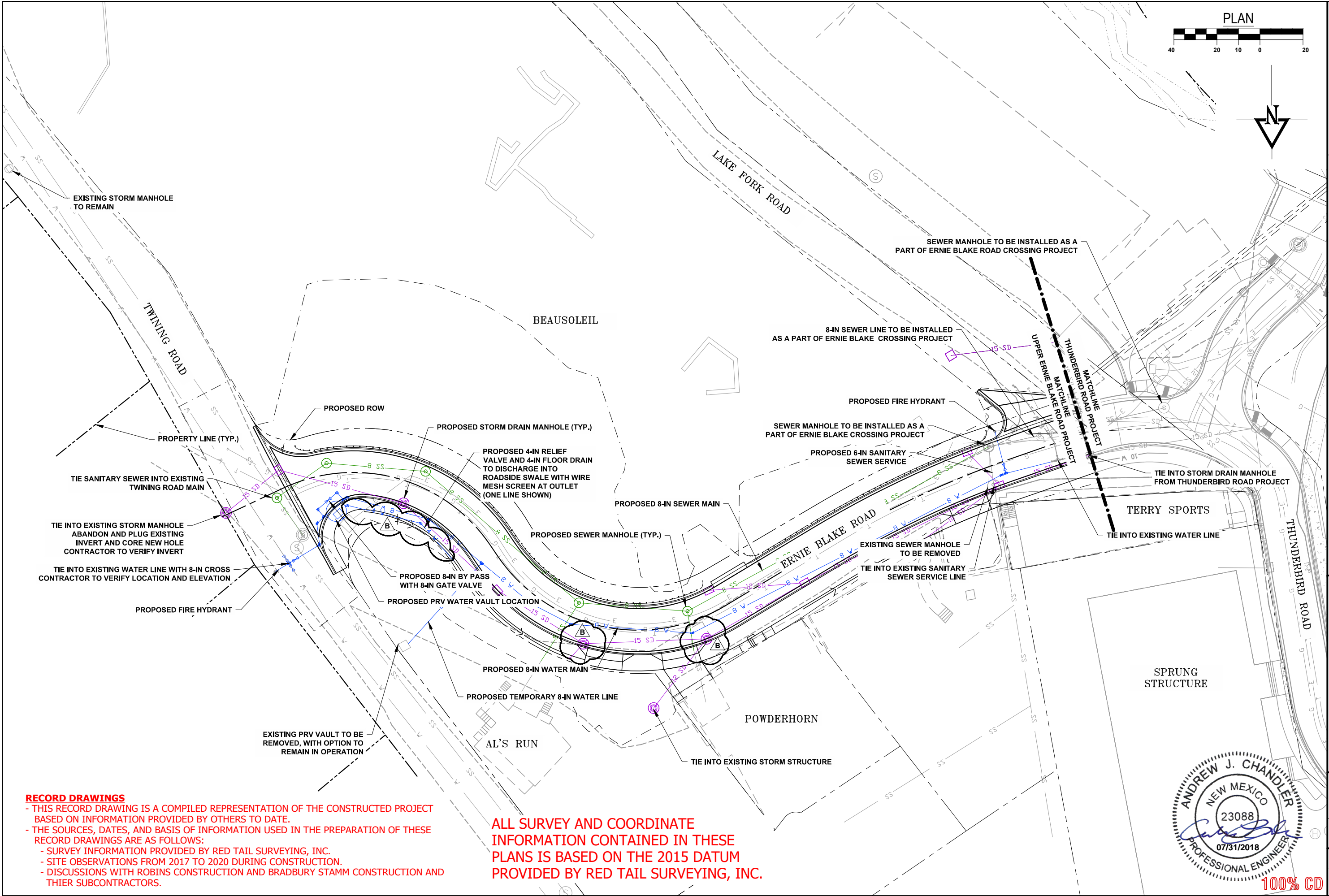
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C-102

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**TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
PROPOSED WET UTILITY PLAN**

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Civil Engineering Services
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Russell Planning & Engineering

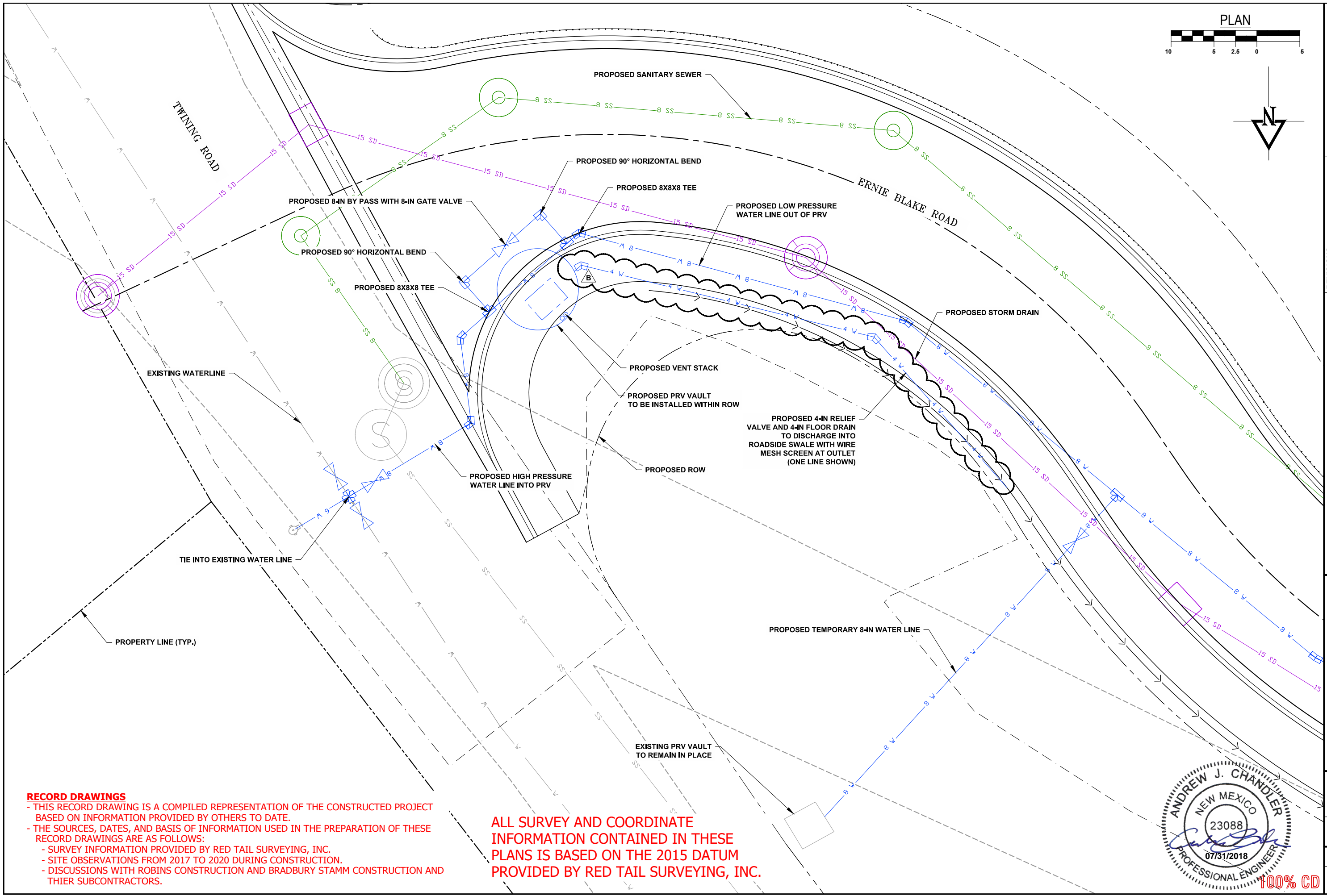
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C-103B

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**TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
PROPOSED PRV PLAN**

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Civil Engineering Services
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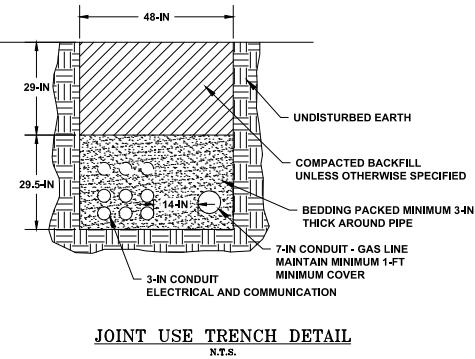
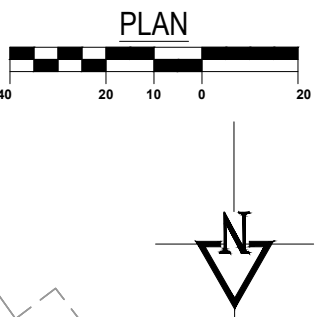
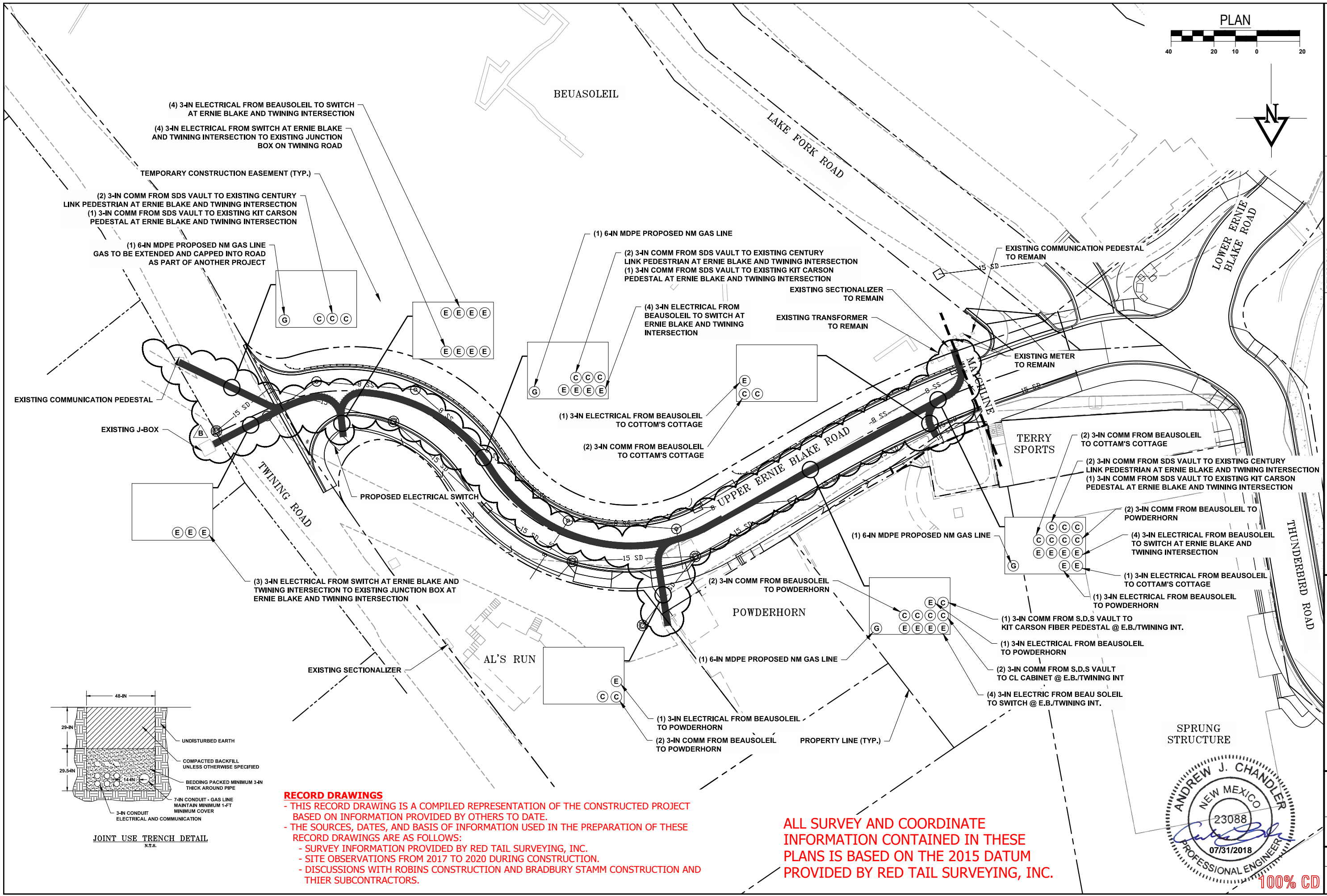
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6 OF 40

C-104B

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REVISIONS:

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**TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
PROPOSED DRY UTILITY PLAN**

Russell Planning & Engineering, Inc.
Civil Engineering Services
934 Main Avenue, Unit C
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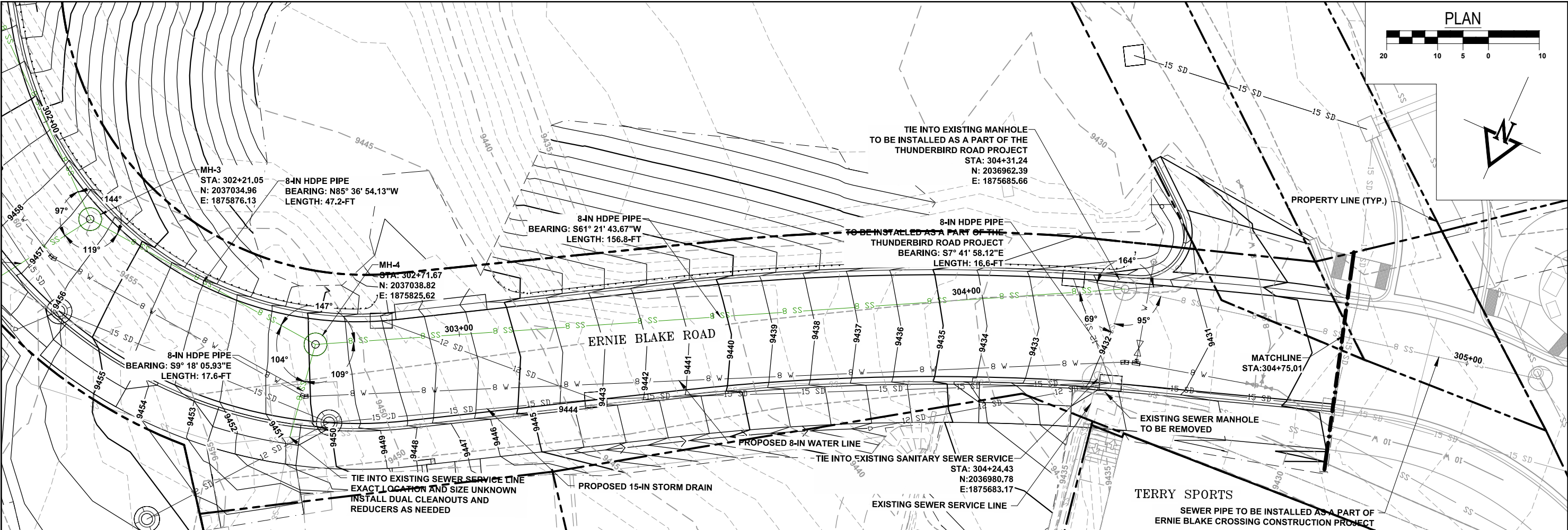
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C-105B

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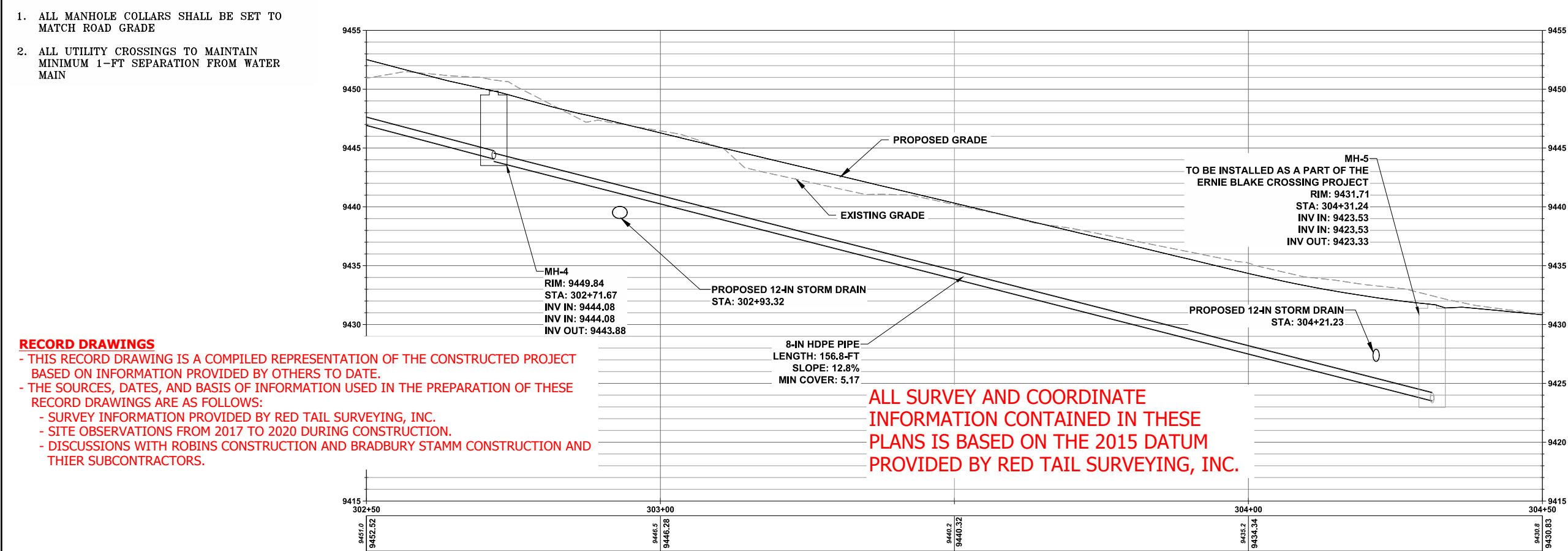


NOTE:

1. ALL MANHOLE COLLARS SHALL BE SET TO MATCH ROAD GRADE
2. ALL UTILITY CROSSINGS TO MAINTAIN MINIMUM 1-FT SEPARATION FROM WATER MAIN

RECORD DRAWINGS

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REVISIONS:

TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
SEWER P-PRO STA 302+50 TO STA 304+50

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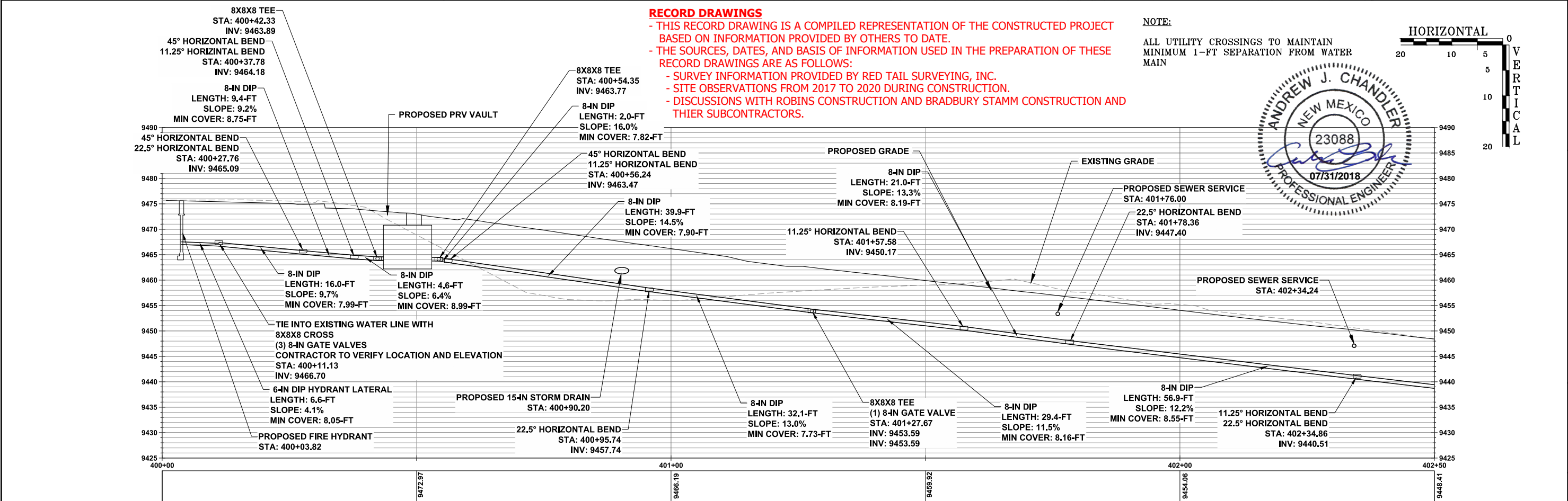
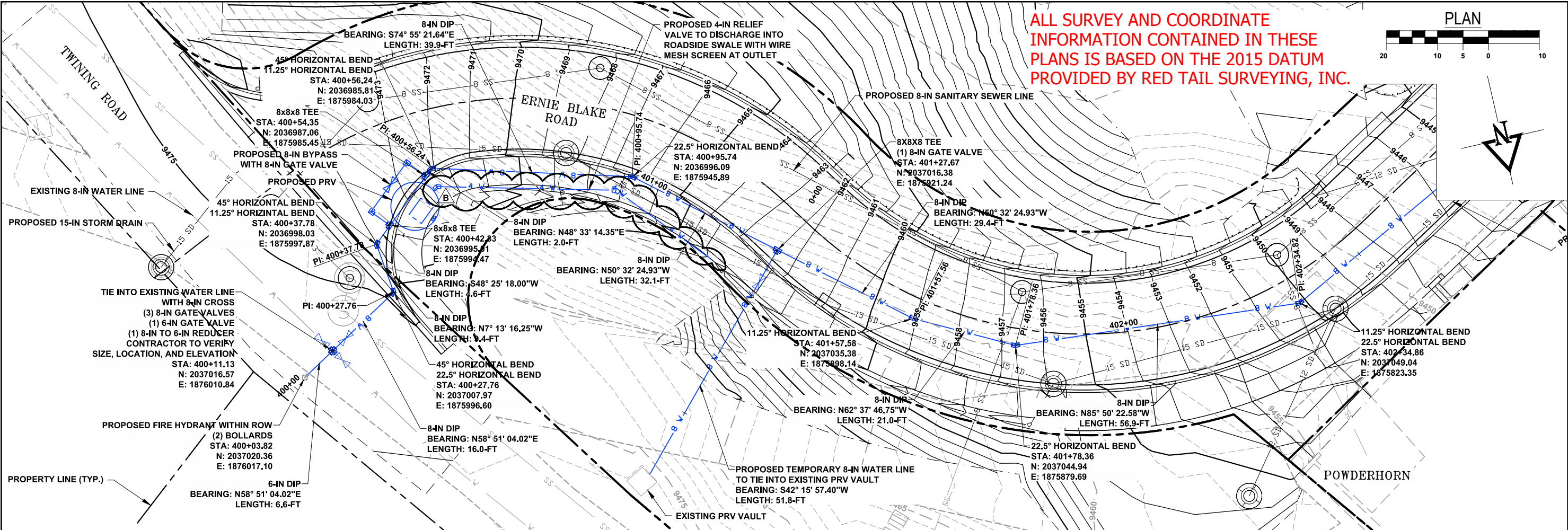
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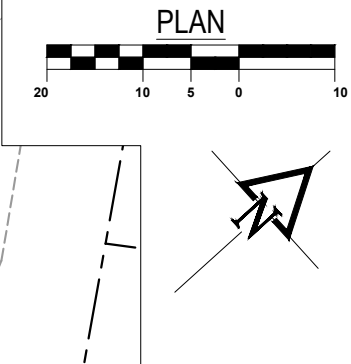
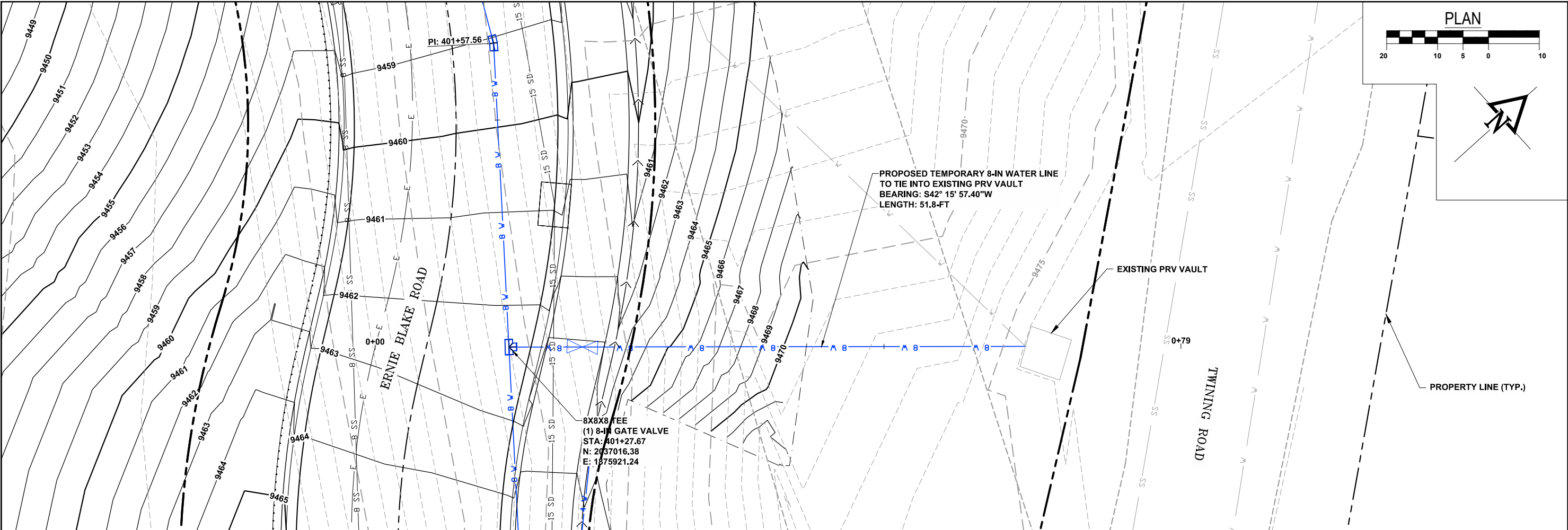
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C-213

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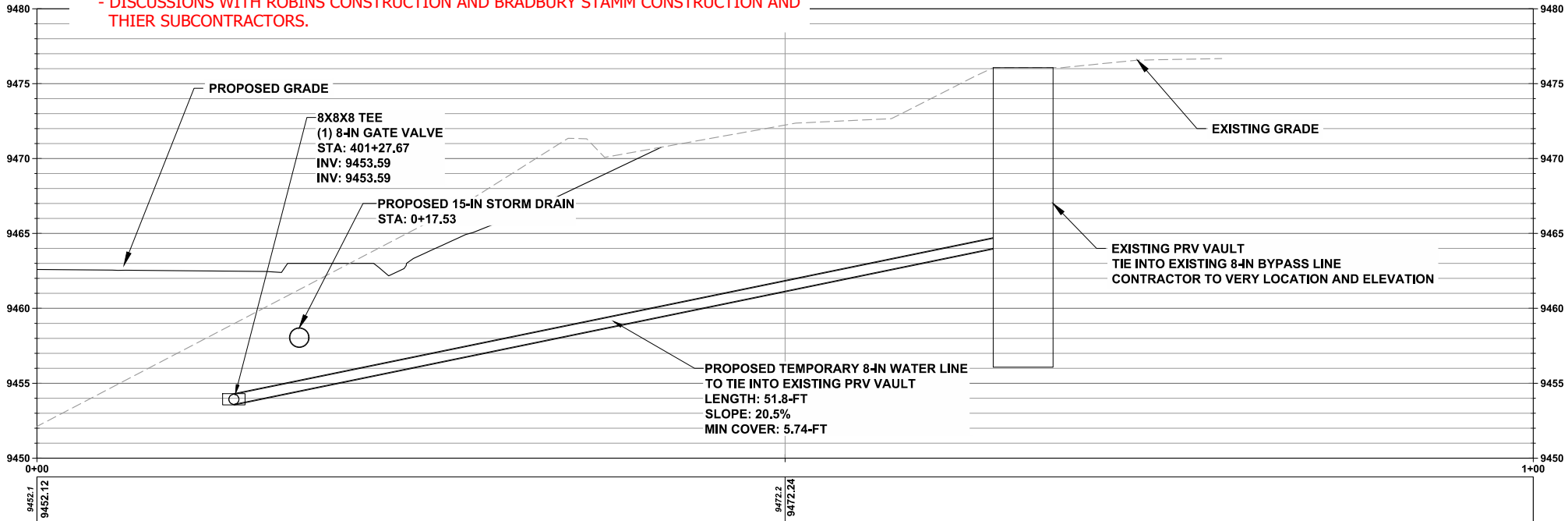
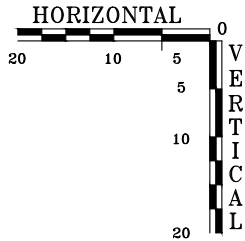
NOTE:

ALL UTILITY CROSSINGS TO MAINTAIN
MINIMUM 1-FT SEPARATION FROM WATER
MAIN

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REVISIONS:

TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
TEMPORARY WATER P-PRO

Russell Planning & Engineering, Inc.
Civil Engineering Services
934 Main Avenue, Unit C
Durango, Colorado 81301
Phone: (970) 385-4546
Fax: (970) 385-4502

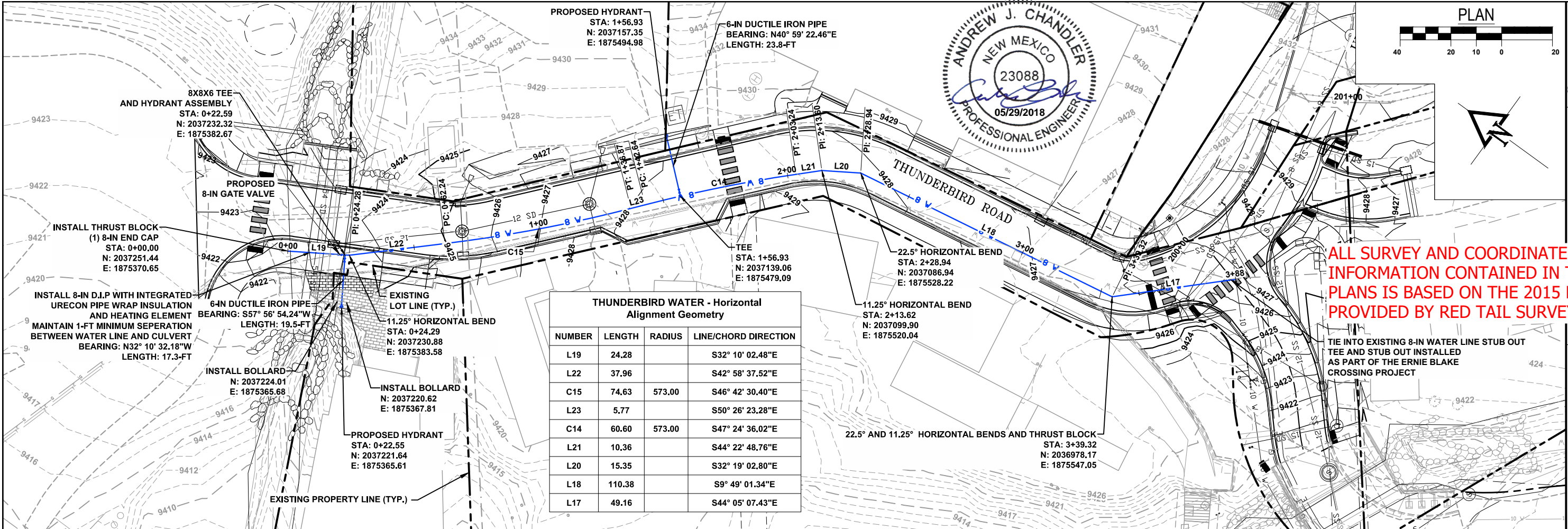
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Drafted: MM
Checked: DC

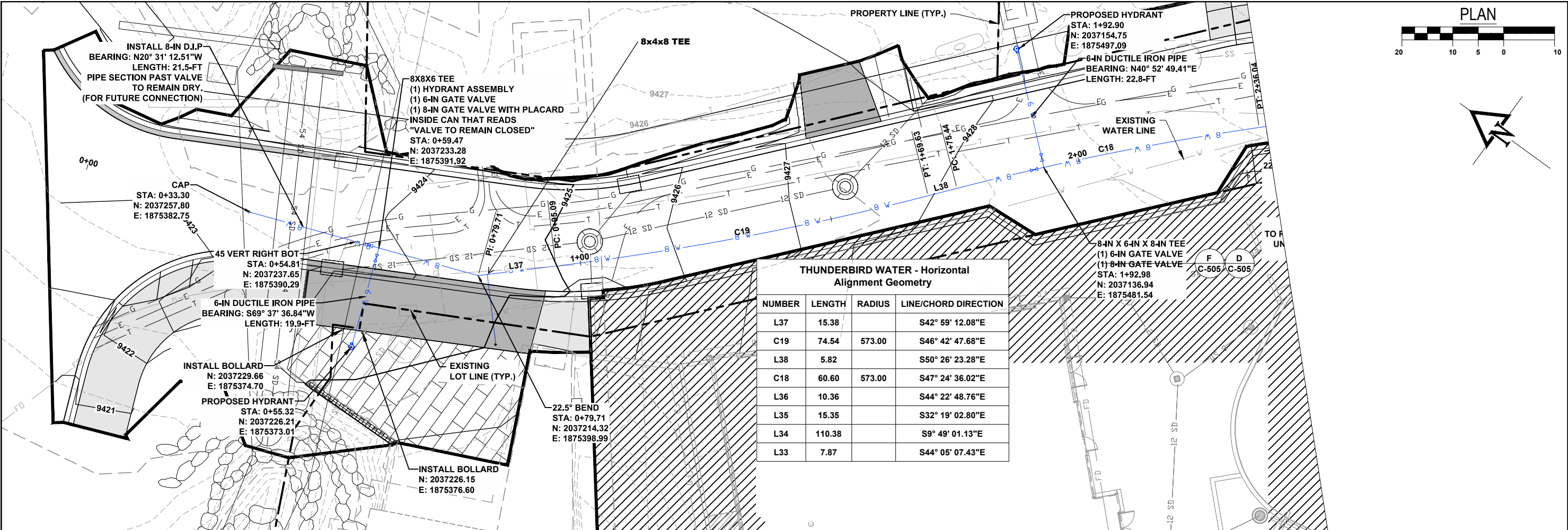
Date of Submittal
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C-216

File Name: R:\Current Projects\Land Projects 3\ITSV - Ernie Blake Rd & Intersection\ACAD\Level 3 Production Dwg\TEMPORARY WATER P-PRO Plotted By: MAGGIE MURPHY





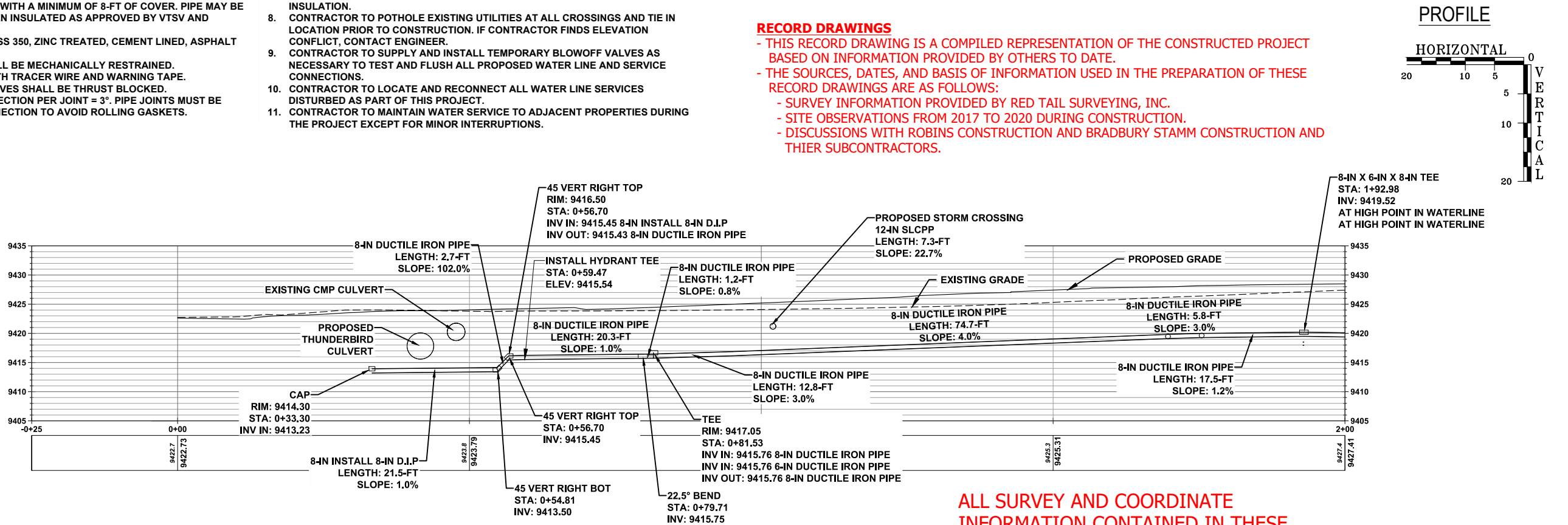
GENERAL NOTES:

1. WATER PIPE SHALL BE BURIED WITH A MINIMUM OF 8-FT OF COVER. PIPE MAY BE BURIED WITH LESS COVER WHEN INSULATED AS APPROVED BY VTSV AND ENGINEER.
2. ALL WATER PIPE MUST BE CLASS 350, ZINC TREATED, CEMENT LINED, ASPHALT COATED DUCTILE IRON PIPE.
3. ALL JOINTS AND FITTINGS SHALL BE MECHANICALLY RESTRAINED.
4. ALL PIPE SHALL BE BURIED WITH TRACER WIRE AND WARNING TAPE.
5. ALL BENDS, FITTINGS, AND VALVES SHALL BE THRUST BLOCKED.
6. MAXIMUM ALLOWED PIPE DEFLECTION PER JOINT = 3°. PIPE JOINTS MUST BE DEFLECTED AFTER JOINT CONNECTION TO AVOID ROLLING GASKETS.

7. ALL ELEVATIONS ARE TO CARRIER (WATER) PIPE INVERT, AND NOT PIPE INSULATION.
8. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT ALL CROSSINGS AND TIE IN LOCATION PRIOR TO CONSTRUCTION. IF CONTRACTOR FINDS ELEVATION CONFLICT, CONTACT ENGINEER.
9. CONTRACTOR TO SUPPLY AND INSTALL TEMPORARY BLOWOFF VALVES AS NECESSARY TO TEST AND FLUSH ALL PROPOSED WATER LINE AND SERVICE CONNECTIONS.
10. CONTRACTOR TO LOCATE AND RECONNECT ALL WATER LINE SERVICES DISTURBED AS PART OF THIS PROJECT.
11. CONTRACTOR TO MAINTAIN WATER SERVICE TO ADJACENT PROPERTIES DURING THE PROJECT EXCEPT FOR MINOR INTERRUPTIONS.

RECORD DRAWINGS

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FOR CONSTRUCTION

TAOS SKI VALLEY
THUNDERBIRD ROAD AND ERNIE BLAKE ROAD
THUNDERBIRD ROAD - WATER PLAN AND
PROFILE 1

Short Elliott
Hendrickson, Inc.
934 Main Avenue, Unit C
Durango, Colorado 81301
Phone: (970) 385-4546
Fax: (970) 385-4502

SEH

Drawn: MM
Drafted: MM
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Date of Submittal
09/02/2020

1 OF 1

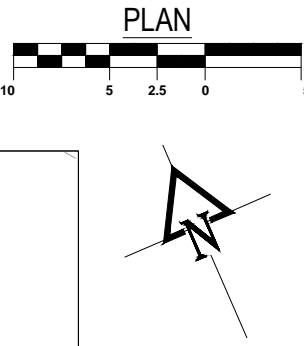
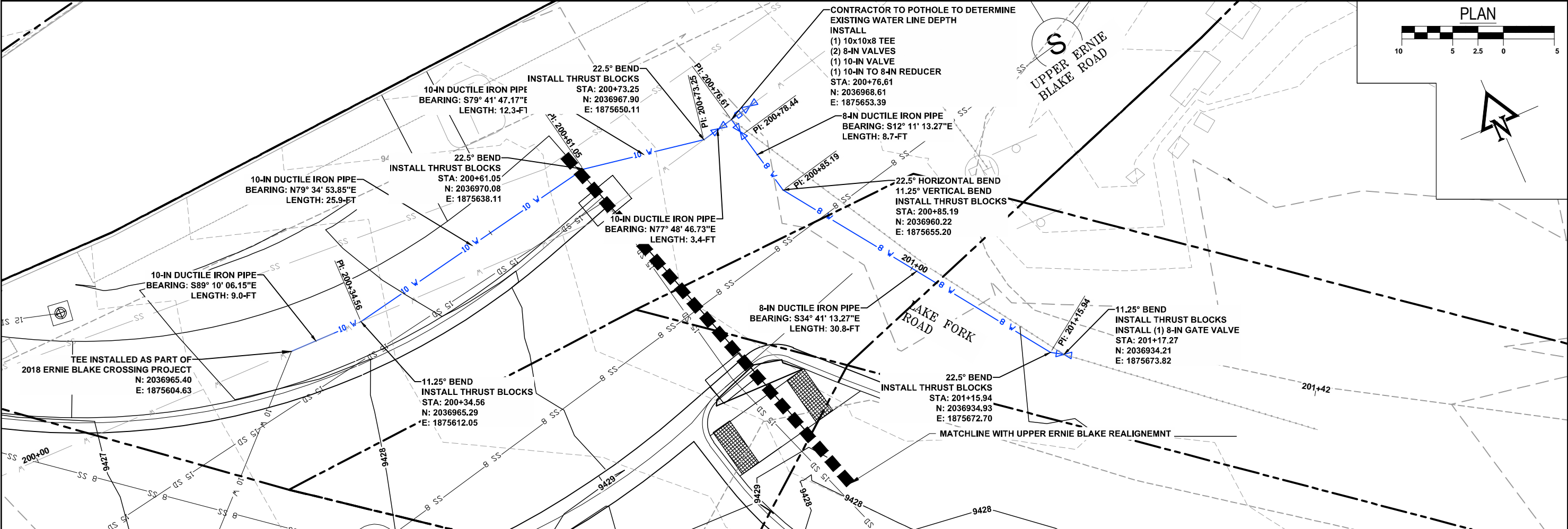
EX-01

REVISIONS:
A 04/17/2020 REVISED PARCEL C HYDRANT LOCATION
B 08/17/2020 REVISED AVS HYDRANT LOCATION

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File Name: R:\Current Projects\Land Projects 3\Tsv - Thunderbird and Ernie Blake\ACAD\Level 3 Production Dwg\TB WATER-PPRO Plotted: 9/2/2020 11:22 AM Plot Style: HALF-STB Plotted By: PAUL THOMAS



REVISIONS:
A 03/19/2019 UPDATED WATER LINE TIE-IN

THUNDERBIRD ROAD
TAOS SKI VALLEY, NM
UPPER ERNIE BLAKE AND LAKE FORK WATER
REPLACEMENT P-PRO

Russell Planning & Engineering, Inc.
Civil Engineering Services
934 Main Avenue, Unit C
Durango, Colorado 81301
Phone: (970) 385-4546
Fax: (970) 385-4502



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Drafted: PT
Checked: DC

Date of Submittal
03/19/2019

26 OF 30

C-218A

File Name: R:\Current Projects\Land Projects 3\TSV - Thunderbird Road & Intersection\ACAD\Level 3 Production Dwg\TSVThunderbird Water-P-PRO Plotted: 3/19/2019 5:02 PM Plot Style: HALF.STB Plotted By: PAUL THOMAS

NOTE: CONTRACTOR TO FIELD VERIFY ALL PIPE CORSSINGS AND WATER LINE TIE-IN NORTHINGS, EASTINGS, AND ELEVATIONS PRIOR TO BEGINNING WATER LINE CONSTRUCTION

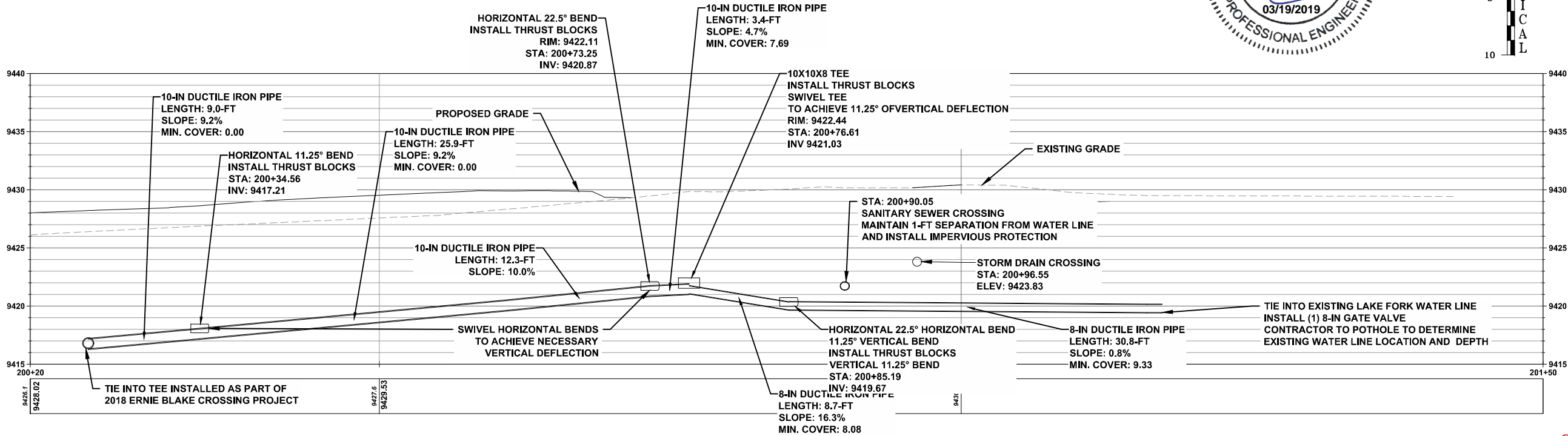
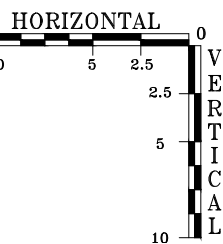
RECORD DRAWINGS

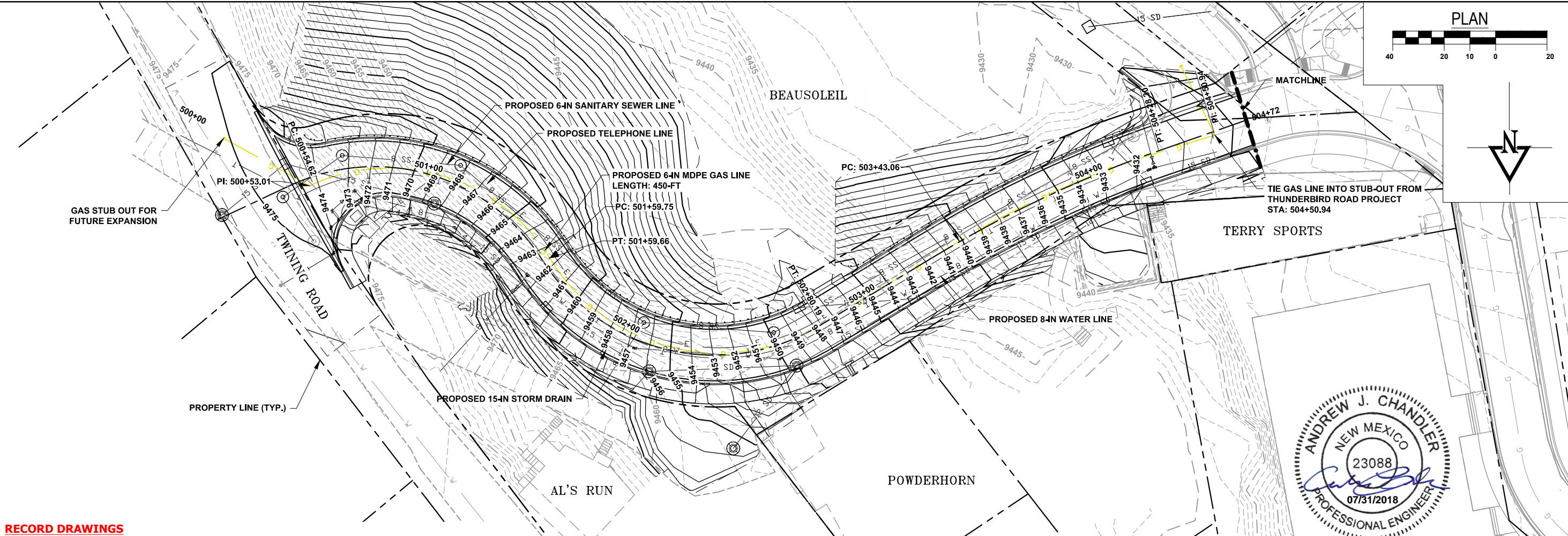
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PROFILE

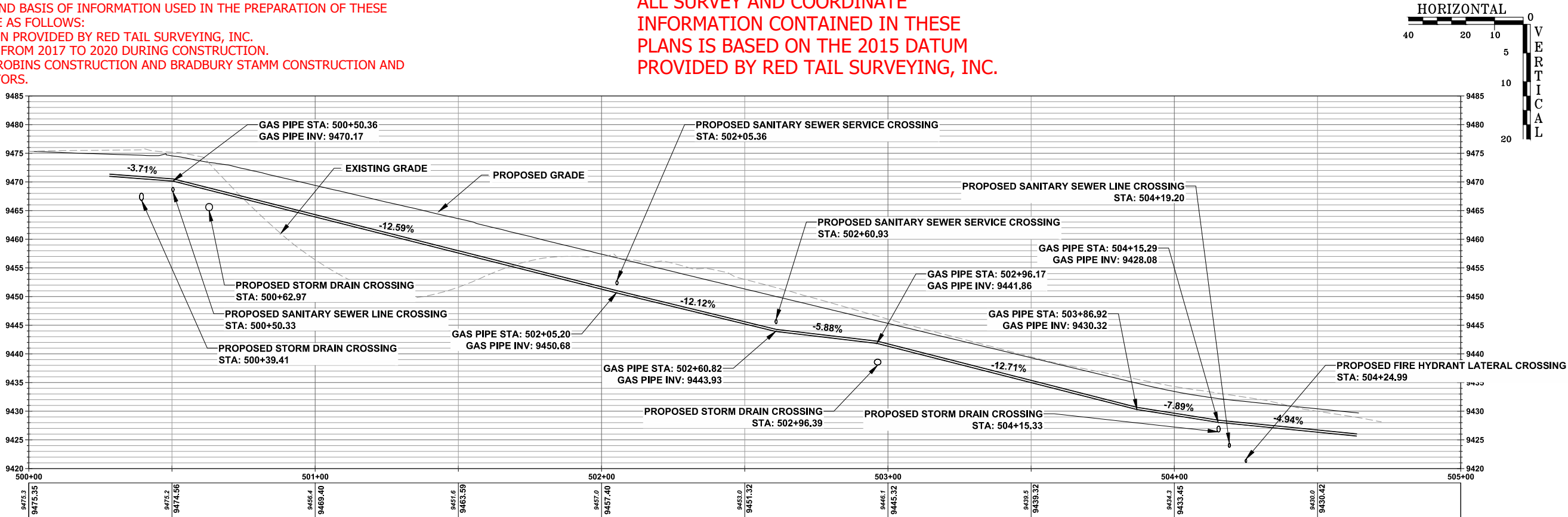




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TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
GAS P-PRO



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Civil Engineering Services
934 Main Avenue, Unit C
Durango, Colorado 81301
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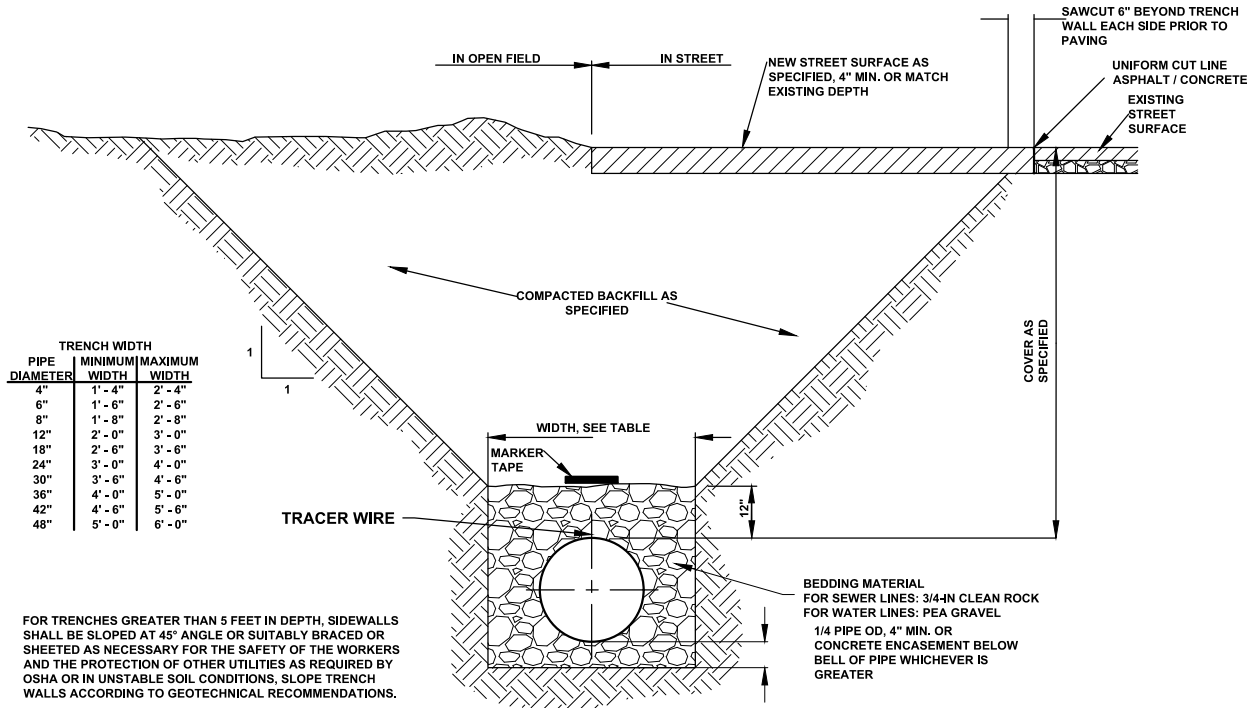
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Date of Submittal
3/29/2018

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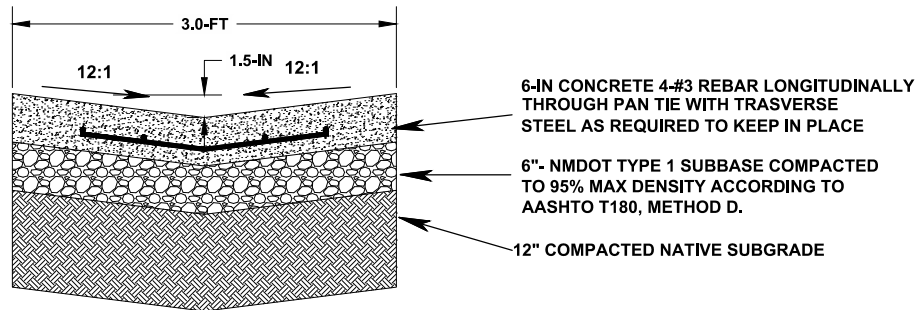
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PIPE DIAMETER	TRENCH WIDTH	
	MINIMUM WIDTH	MAXIMUM WIDTH
4"	1'-4"	2'-4"
6"	1'-6"	2'-6"
8"	1'-8"	2'-8"
12"	2'-0"	3'-0"
18"	2'-6"	3'-6"
24"	3'-0"	4'-0"
30"	3'-6"	4'-6"
36"	4'-0"	5'-0"
42"	4'-6"	5'-6"
48"	5'-0"	6'-0"

FOR TRENCHES GREATER THAN 5 FEET IN DEPTH, SIDEWALLS SHALL BE SLOPED AT 45° ANGLE OR SUITABLY BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKERS AND THE PROTECTION OF OTHER UTILITIES AS REQUIRED BY OSHA OR IN UNSTABLE SOIL CONDITIONS, SLOPE TRENCH WALLS ACCORDING TO GEOTECHNICAL RECOMMENDATIONS.

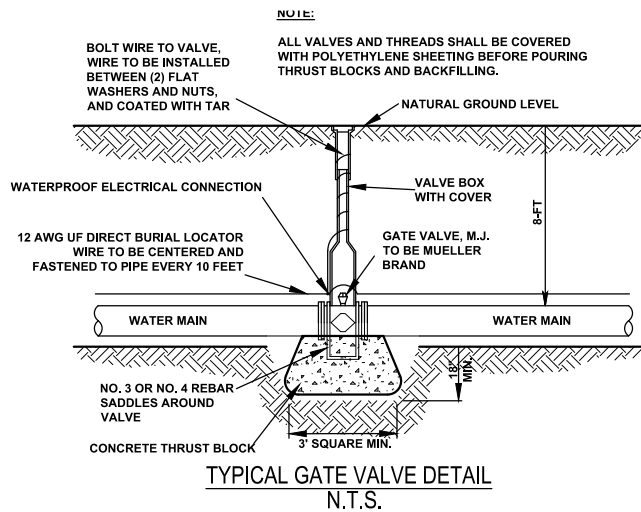
TYPICAL TRENCH & BEDDING DETAIL
N.T.S.



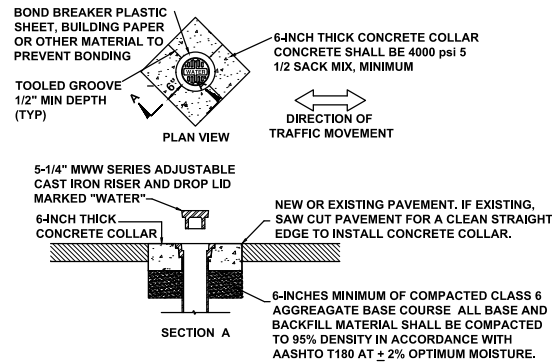
TYPICAL 3-FT CONCRETE PAN
N.T.S.

RECORD DRAWINGS

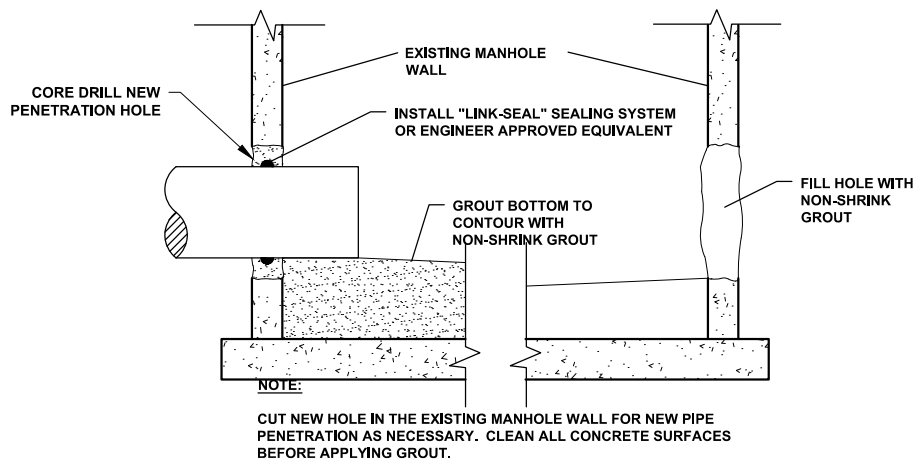
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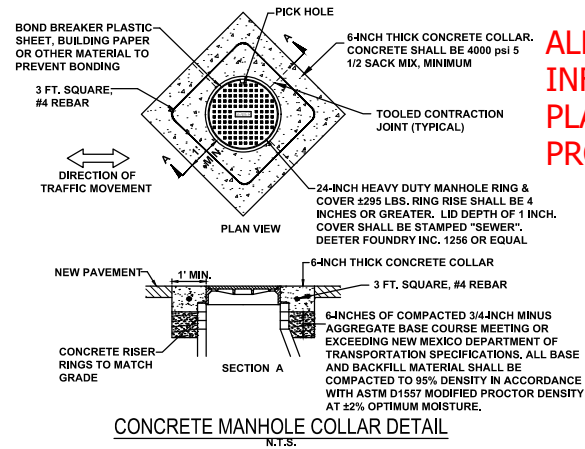
TYPICAL GATE VALVE DETAIL
N.T.S.



CONCRETE VALVE COLLAR DETAIL
N.T.S.



TYPICAL NEW PIPE PENETRATION DETAIL
N.T.S.



CONCRETE MANHOLE COLLAR DETAIL
N.T.S.

MINIMUM SQUARE FEET OF BEARING SURFACE- VILLAGE OF TAOS SKI VALLY ONLY				
NOMINAL PIPE SIZE (INCHES)	DEAD ENDS WYES & TEES & VALVES	90 DEGREE BEND	45 DEGREE BENDS	22 1/2 DEGREE BENDS OR LESS
6"	8	10	6	3
8"	13	17	10	5
10"	20	28	16	8

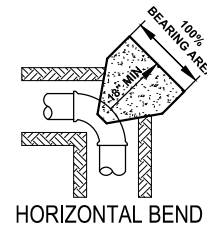
EXAMPLES:

10-INCH HORIZONTAL 45-DEGREE BEND AT 180 PSI
FROM TABLE, THRUST = 84x180 = 15,120 LBS
ASSUME SOIL BEARING STRENGTH = 1,000 LBS/SQ. FT.
REQUIRED BEARING AREA OF THRUST BLOCK = 15,120/1,000 = 15.12 SQ. FT. = 16 SQ. FT.

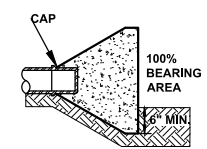
10-INCH DOWNWARD VERTICAL 22.5-DEGREE BEND AT 180 PSI
FROM TABLE, THRUST = 43x180 = 7,740 LBS
WEIGHT OF CONCRETE = 150 LBS/CUBIC FOOT
SIZE OF CONCRETE THRUST BLOCK = 7,740/150 = 51.6 CU. FT. = 1.91 CU. YDS.

NOTES:

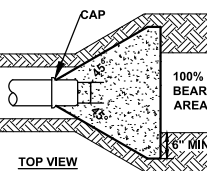
1. USE THE MAXIMUM INTERNAL PRESSURE ANTICIPATED (I.E. HYDROSTATIC TEST PRESSURE, POSSIBLE SURGE PRESSURE DUE TO PUMP OR VALVE SHUT-OFF, ETC.)
2. SEE SOILS REPORT FOR BEARING STRENGTH OF SOIL. IN THE ABSENCE OF A SOILS REPORT, ASSUME 1,000 PSF.
3. CONCRETE THRUST BLOCKS TO BE 3,000 PSI STRENGTH AT 28-DAYS.
4. THRUST BLOCKS TO BEAR ON UNDISTURBED EARTH.
5. DO NOT EXTEND CONCRETE BEYOND THE FITTING JOINTS.
6. INSTALL POLYETHYLENE BOND BREAKER BETWEEN PIPE AND CONCRETE.
7. IN ADDITION TO THRUST BLOCKS, MECHANICAL RESTRAINTS (MEGA-LUGS, OR EQUAL) SHALL BE USED AT ALL VALVES, JOINTS, BENDS, FITTINGS WITH MECHANICAL OR PUSH-ON TYPE CONNECTIONS, AND DEAD ENDS.



HORIZONTAL BEND



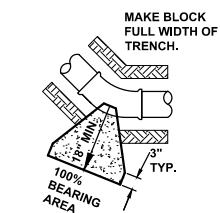
SECTION VIEW



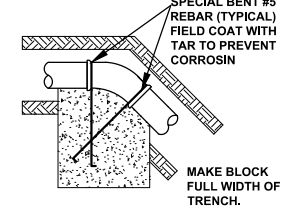
DEAD END

NOTES:

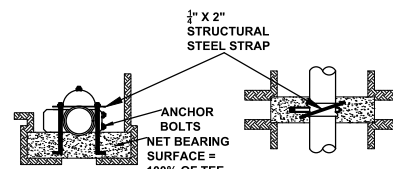
- ALL VERTICAL BENDS SHALL BE THRUST BLOCKED
- ALL HORIZONTAL BENDS 45° AND SHARPER SHALL BE THRUST BLOCKED



VERTICAL BEND - UP



VERTICAL BEND - DOWN



TYPICAL VALVE

THRUST BLOCK DETAIL
N.T.S.

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REVISIONS:

TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
TYPICAL DETAILS

Russell Planning &
Engineering, Inc.
Civil Engineering Services
934 Main Avenue, Unit C
Durango, Colorado 81301
Phone: (970) 385-4546
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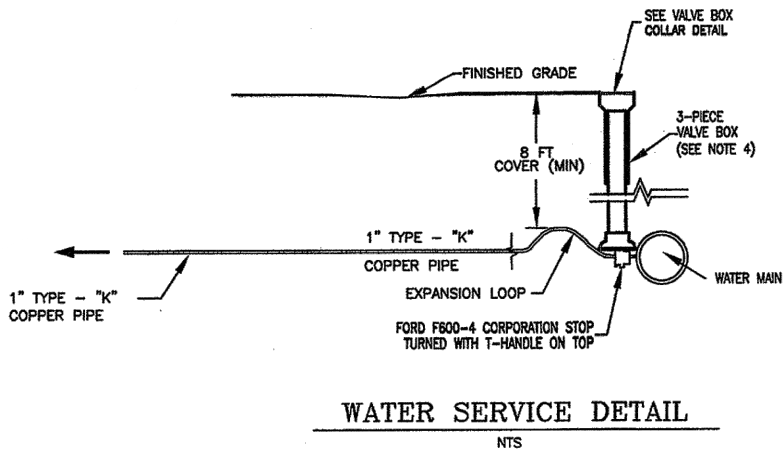
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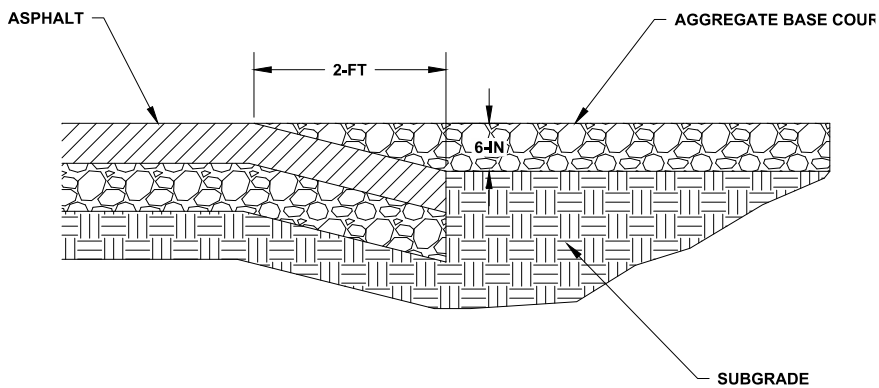
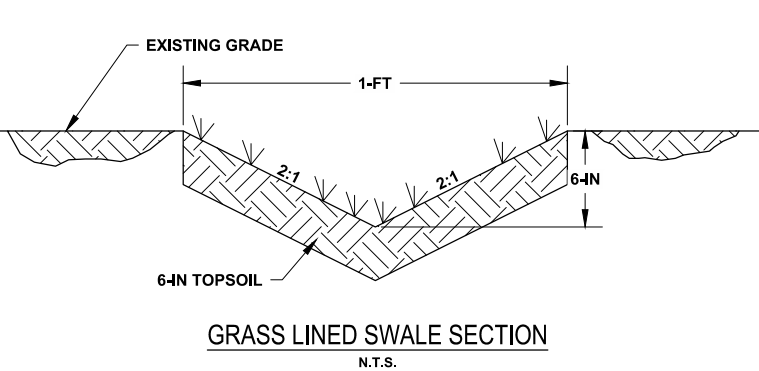
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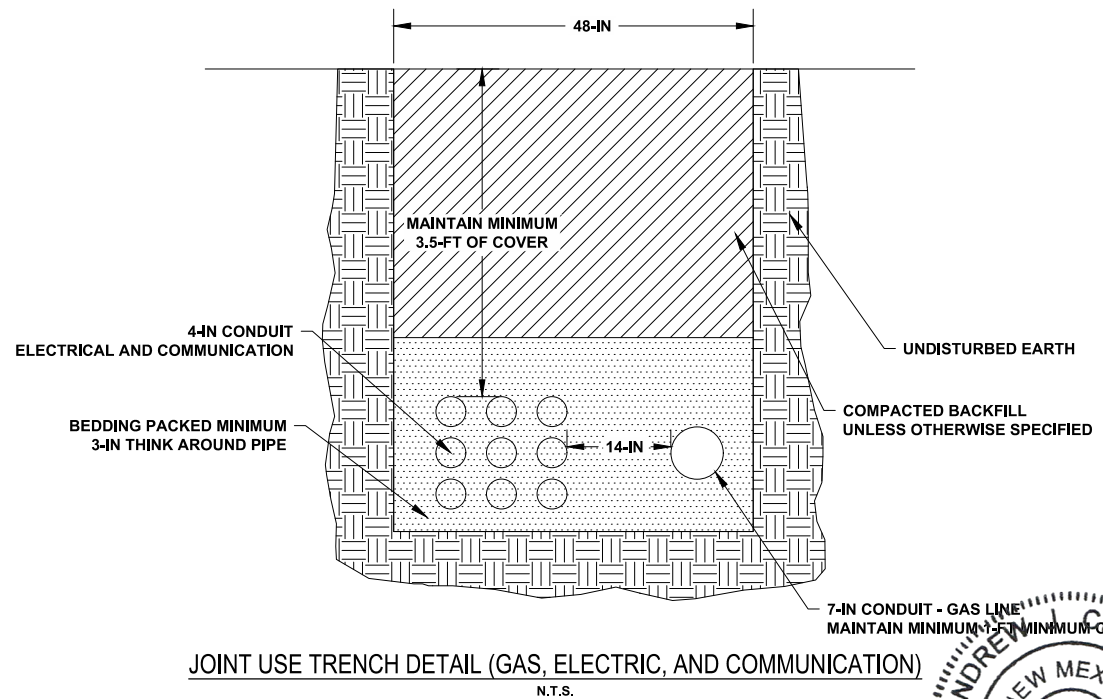
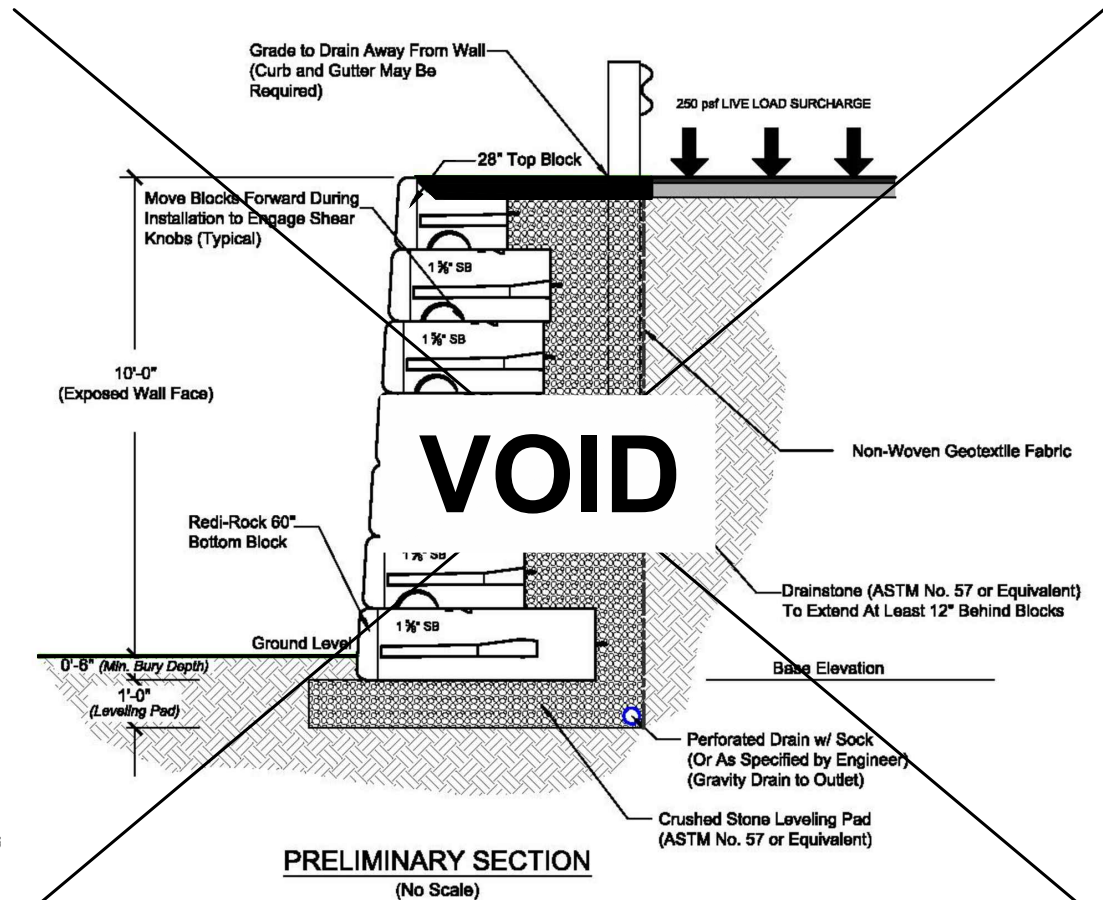
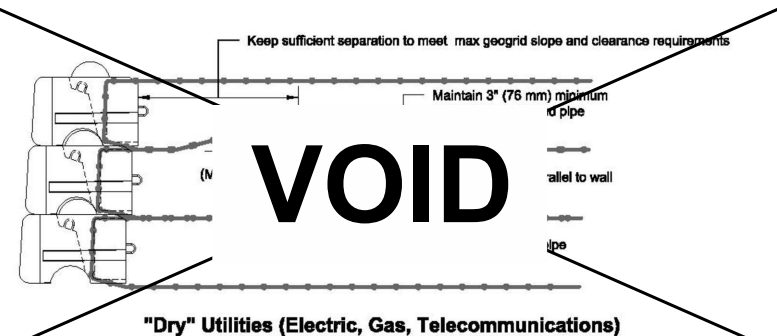
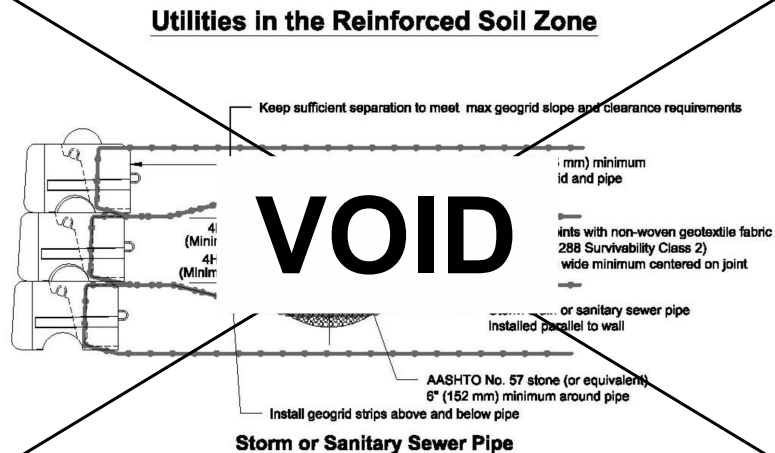


- NOTES:
- COVER ASSEMBLY TO BE FORD, MUELLER OR EQUIVALENT. COVER TO HAVE BRONZE PENTAGON NUT WITH LIFTER TYPE WORM LOCK.
 - METER & SETTER TO BE INSTALLED UNDER DIRECTION OF MASTER PLUMBER.
 - 2" FOAM BOARD INSULATION MUST BE INSTALLED ABOVE ENTIRETY OF WATER SERVICE LINE. SEE DETAIL ON SHEET D-3 FOR INSULATION INSTALLATION.
 - VALVE BOXES SHALL BE THE 3-PIECE ADJUSTABLE SCREW TYPE MANUFACTURED BY THE TYLER PIPE CO. SERIES #6860 WITH #160 OVAL BASE, OR APPROVED EQUAL.
 - ALL NEW WATER METERS SHALL BE INSTALLED ON THE INTERIOR OF THE BUILDING WITH REMOTE READ CAPABILITY. CONTACT THE VILLAGE OF TAOS SKI VALLEY FOR MAKE AND MODEL.

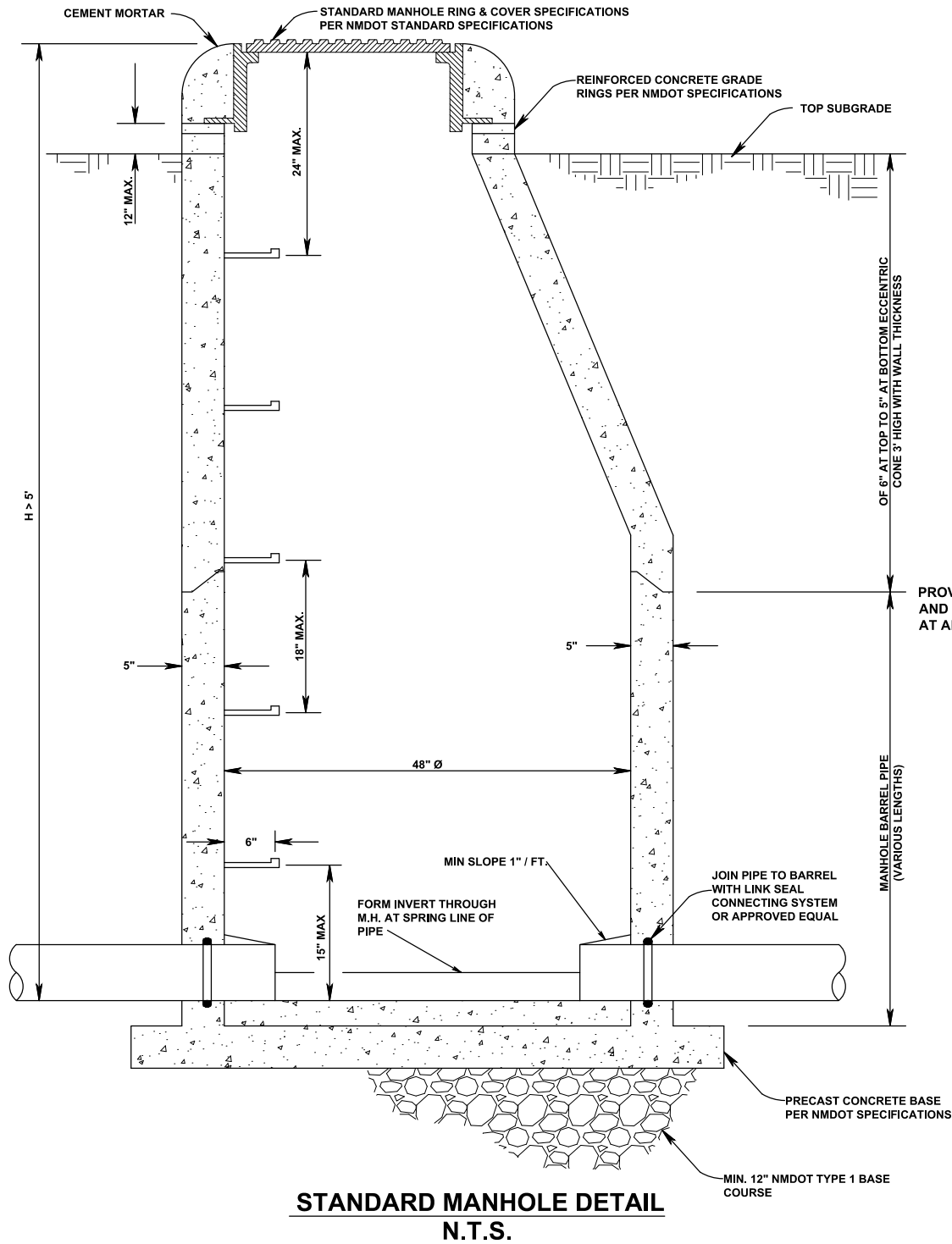
- RECORD DRAWINGS**
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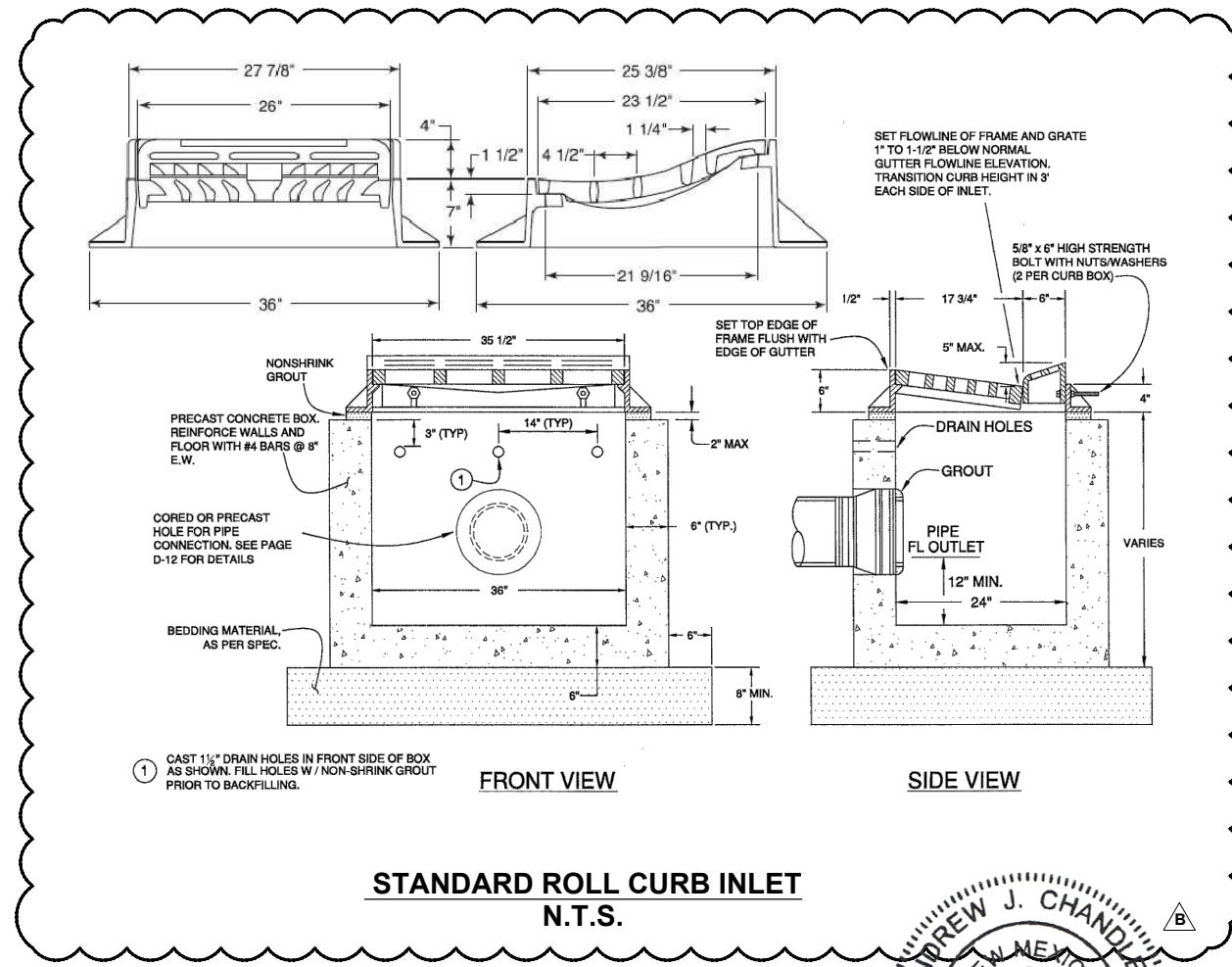
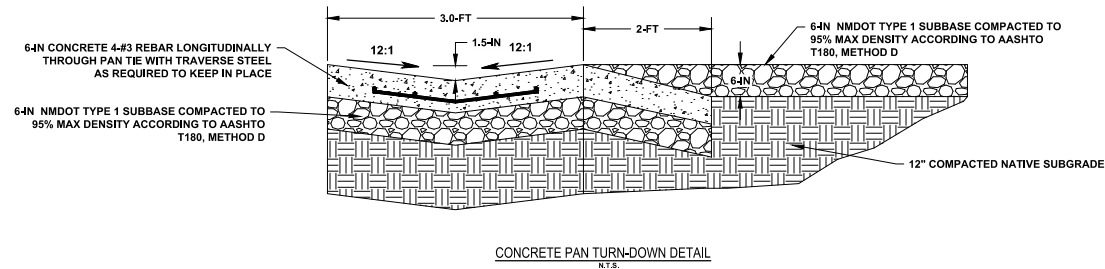
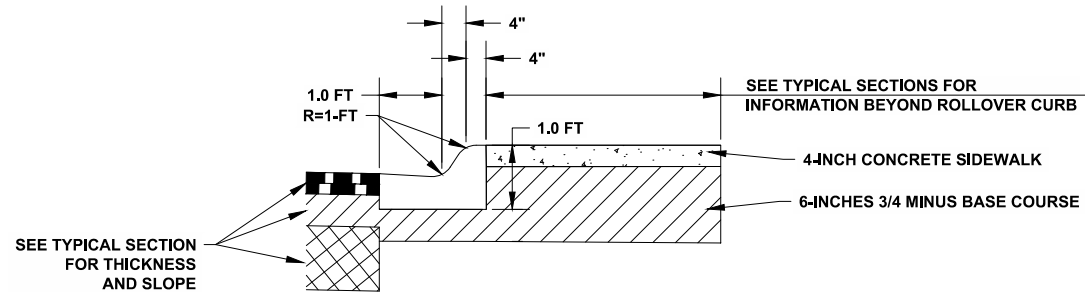
- MANHOLE NOTES:
1. CONCRETE MANHOLES SHALL MEET NMDOT SPECIFICATIONS.
 2. ALL CEMENT USED IN MORTAR, CONCRETE BASES, GRADE RINGS, RISER SECTIONS, CONES AND FLAT TOPS, FOR SANITARY SEWER MANHOLES, SHALL MEET NMDOT SPECIFICATIONS. ADDITIONALLY, ALL CEMENT SHALL CONTAIN WATERPROOFING AND SULFATE RESISTANT ADMIXTURES.
 3. MANHOLE RISER SECTION, CONES, FLAT TOPS AND GRADE RINGS SHALL BE PRECAST REINFORCED CONCRETE CONFORMED TO SPECIFICATIONS.
 4. ALL SANITARY SEWER MANHOLE COVERS SHALL BE VENTED AND HAVE THE WORD "SEWER" CAST ONTO THE LID.
 5. COMPACT BACKFILL TO 95% MODIFIED PROCTOR AASHTO T180.
 6. ALL LIFTING HOLES AND GAPS BETWEEN MANHOLE RINGS AND LID, ETC., SHALL BE FILLED WITH NON SHRINK GROUT.
 7. RAM-NECK GASKETS SHALL BE USED AT ALL BARREL JOINTS. JOINTS SHALL ALSO HAVE EXTERNAL JOINT WRAP.



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TAOS SKI VALLEY
UPPER ERNIE BLAKE ROAD
TYPICAL DETAILS

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Civil Engineering Services
934 Main Avenue, Unit C
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Date of Submittal
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C-508B

File Name: R:\Current Projects\Land Projects 3\TSDV - Ernie Blake Rd & Intersection\ACAD\Level 3 Production Dwg\TYPICAL DETAILS Plotted: 7/31/2018 5:59 PM Plot Style: HALF.STB Plotted By: MAGGIE MURPHY

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