



COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS
P.O. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

Permit No: PS-1701863
Date Issued: 06/20/2017
Start Date: 07/24/2017
Exp. Date: 08/15/2017
Project No: PWP7110005
Quad: SE

ENCROACHMENT PERMIT

To: FRONTIER CALIFORNIA INC
460 W CENTER ST
MANTECA CA 95336

Encroachment Type:

Trench			
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Location:

N/S WEST RIPON RD 118' E/O FREDERICK RD

In compliance with your request of **06/20/2017**, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

Special Comments:

Traffic Control Per MUTCD

FORMS:

SS/WW, R-29		
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Est. Permit Fee: \$447.55

KRIS BALAJI, Director
Department of Public Works

WHITE	-Permittee
GOLDENROD	-PWD Central File
YELLOW	-Field Inspection
PINK	-Permit Section

By: 
Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies-governing the encroachment herein permitted. See the following references:

STREETS AND HIGHWAYS CODE

1. Division 1, Chapter 3
2. Division 2, Chapter 2, Section 942
3. Division 2, Chapter 4, Section 1126
4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.
9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 5/17/2017

To: San Joaquin County
Department of Public Works

Gary Nunez for Frontier CA
(Applicant Name)

23133 Hawthorne Blvd Ste 101A

(Mailing Address)

Torrance, CA, 90505

(City, State, Zip Code)

805-214-8379

(Area Code - Telephone Number)

OFFICE USE ONLY

JOB #	<u>110005</u>	REF #	
APN		CR #	
EXP. DATE	<u>8-15-17</u>		
VALID	<u>7-24-17</u> TO <u>8-15-17</u>	DRIVEWAYS:	
STREET	<u>West Ripon Rd</u>	*	
AREA	<u>Ripon</u> QUAD <u>SE</u>	*	
TYPE	<u>Trench</u>	*	
FORMS	<u>SSWW R29</u>		
NOTES			

Sketch (Detailed plans may be submitted)

Please see attached Site Plan Details

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the North side of W Ripon Rd approximately 118' feet/mile East of Fredrick Rd, Ripon CA, by performing the following work (description of work): FRONTIER TO PLACE [2]NEW TELCO CABINETS, NEW POWER METER and ASSOCIATED UG CONDUITS TO SUPPORT NEW FIBER OPTIC EQUIPMENT TO SERVE LOCAL AREA , IN ACCORDANCE WITH THE CONNECT AMERICA FUND [CAF II] PROJECT.

FRONTIER PROJ #5200069 / WO421931 GPS: 37.739557°, -121.164571°

PLEASE SEE ATTACHED TRAFFIC CONTROL PLAN

Work will commence on or about 7/24/2017 for approximately 4 days.

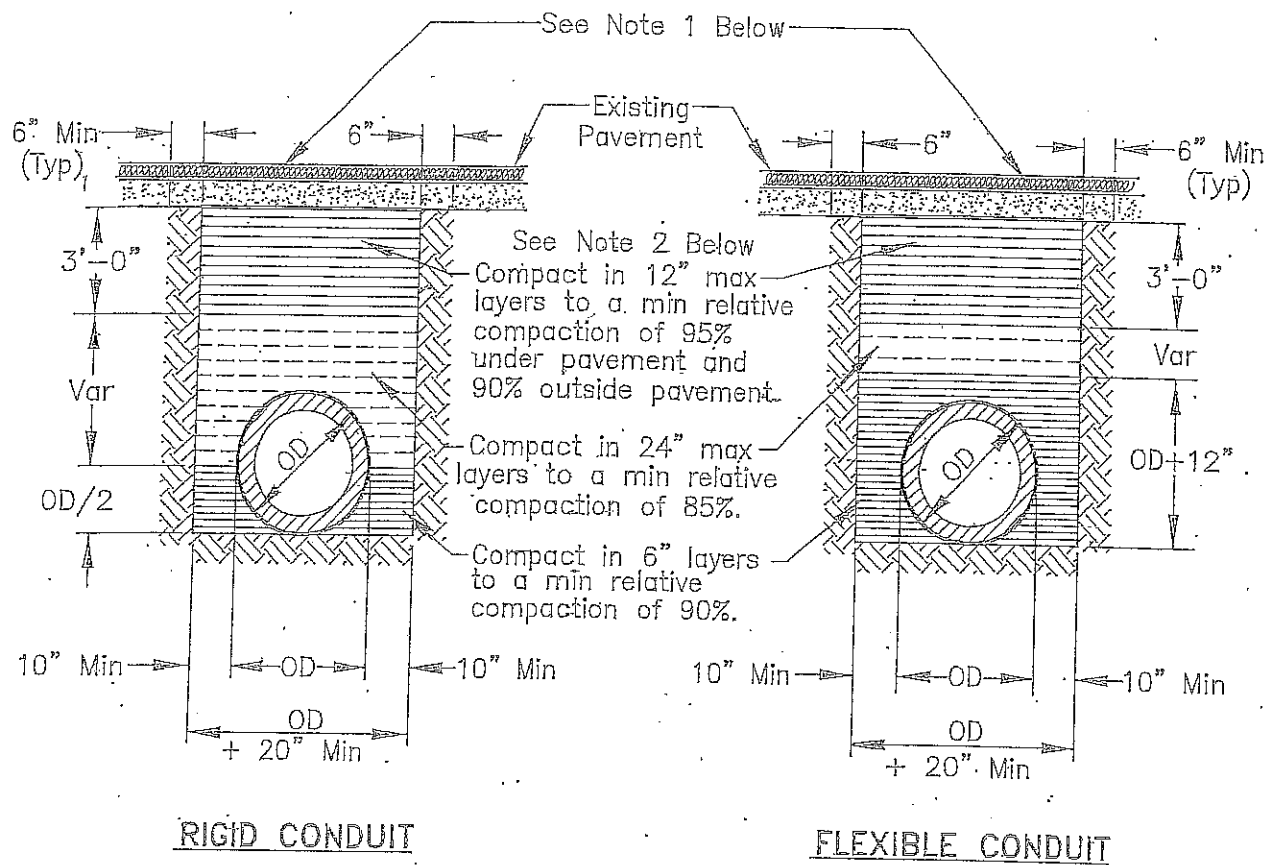
I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Gary Nunez

Signature of Applicant - Title

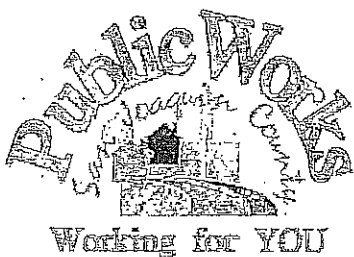
5/17/2017

Date



NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum. of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
2. Select native material or imported granular material as approved by the Director of Public Works. Backfill with materials equal to or better than the existing pavement and base in quality.
3. Relative compaction of materials shall be tested in accordance with the State of California, Dept. of Transportation Testing Manuals, test method No. California 216 or 231.
4. All existing pavement shall be neatly cut to line prior to trench excavation.
5. Jetting or ponding will be permitted within the street right-of-way with a 3 year bond, when approved by the Director of Public Works.
6. When shown by soil composition and compactability, ninety percent (90%) compaction may be used, when approved by the Director of Public Works.
7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Approved by:

Thomas M. Goss

No.	Revision	Description	Date

Date: DEC 2014

Std. Dwg. No.

R-29

GENERAL PROVISIONS

GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY

PUBLIC CONVENIENCE AND SAFETY:

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
 1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
 2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.
 - a. The County of San Joaquin Public Works Department
 - b. The County of San Joaquin Sheriff's Office
 - c. The local postal service
 - d. The local fire district
 - e. The local school district
 - f. The local residents involved
- B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
- C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
- D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

STRUCTURES:

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and Transportation Officials (AASHTO) designations.
 1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.
 2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
 3. Plastic pipe conforming to AASHTO Designation M294.
- B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1-06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampoles, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

REPAIRS OF THE COUNTY RIGHT-OF-WAY:

- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.
- D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one-foot where 90% compaction is required, and two-feet where 80% compaction is required.
- E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the lift.
- G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
- H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
 1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch (1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
 2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
- I. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
 1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
 2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
- J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

SPECIAL PROVISIONS

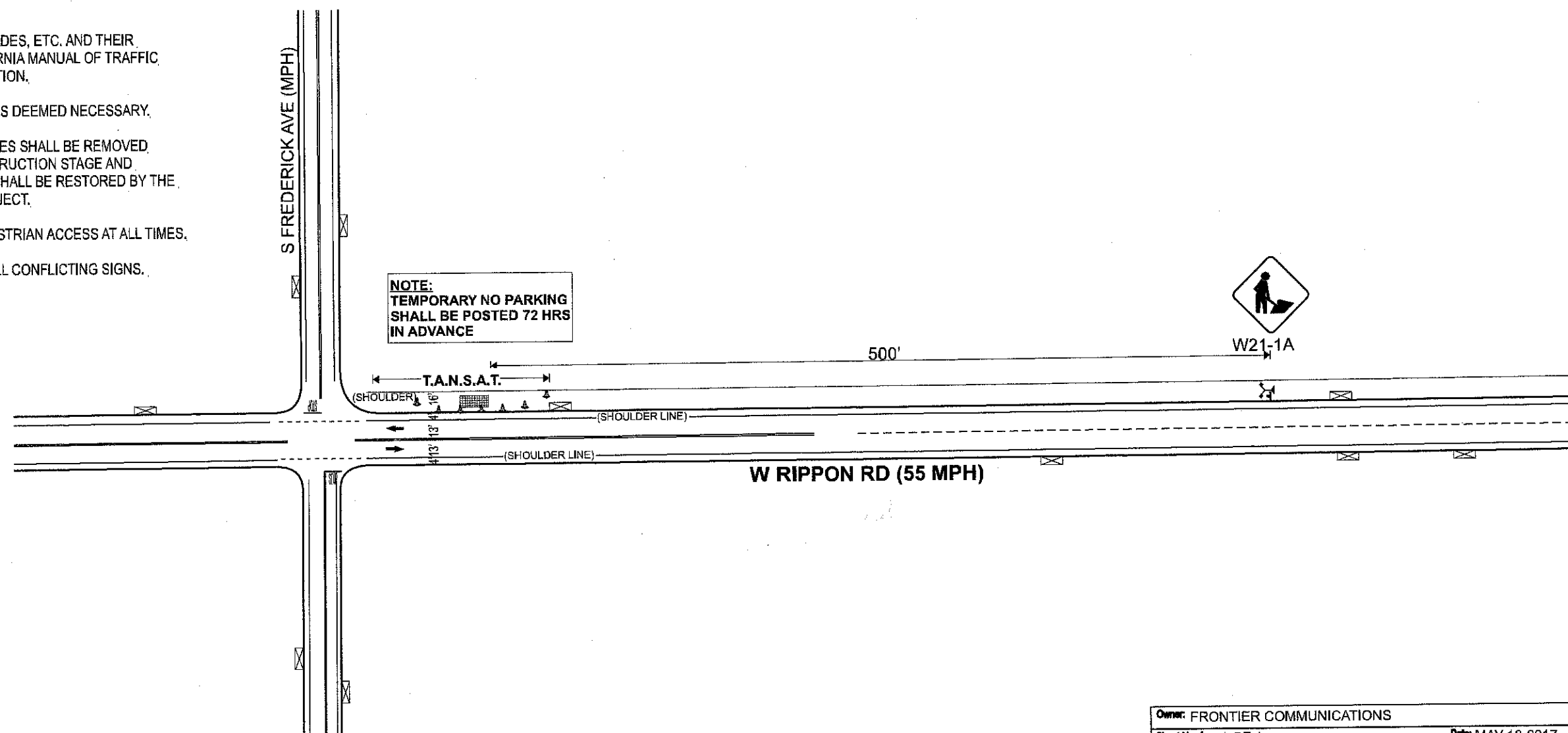
Winter Weather Utility Work

1. SUPERVISION: The utility company (permittee) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. START OF WORK: No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
3. CLEAN PAVEMENT: Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
4. DAILY RESTORATION: Private driveways and road intersections shall be restored daily.
5. WEATHER-TIGHT CONDITIONS: All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.

TRAFFIC CONTROL PLAN GENERAL NOTES

- A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK ON A PUBLIC STREET TO INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES AS SHOWN HEREIN, AS WELL AS ANY SUCH ADDITIONAL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED TO ENSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE CLOSURE AREA AND PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS.
- B. CONTRACTOR SHALL LEAVE ACCESS OPEN TO DRIVEWAYS AT ALL TIMES.
- C. ALL DELINEATORS SHALL BE EQUIPPED WITH REFLECTIVE BAND AT NIGHTTIME.
- D. ALL WARNING SIGNS SHALL BE EQUIPPED WITH FLASHING YELLOW WARNING LIGHTS FOR ANY NIGHTTIME OPERATIONS.
- E. ALL SIGNS, CONES, DELINEATORS, BARRICADES, ETC. AND THEIR INSTALLATION SHALL CONFORM TO CALIFORNIA MANUAL OF TRAFFIC CONTROL DEVICES (CAMUTCD) LATEST EDITION.
- F. CONTRACTOR SHALL PROVIDE FLAGGERS AS DEEMED NECESSARY.
- G. ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION STAGE AND PERMANENT TRAFFIC CONTROL DEVICES SHALL BE RESTORED BY THE CONTRACTOR UPON COMPLETION OF PROJECT.
- H. CONTRACTOR SHALL MAINTAIN SAFE PEDESTRIAN ACCESS AT ALL TIMES.
- I. CONTRACTOR SHALL COVER OR REMOVE ALL CONFLICTING SIGNS.

MAXIMUM CHANNELIZER SPACING (UNLESS OTHERWISE NOTED)		
TAPER	TANGENT	CONFLICT
20'	20'	5'



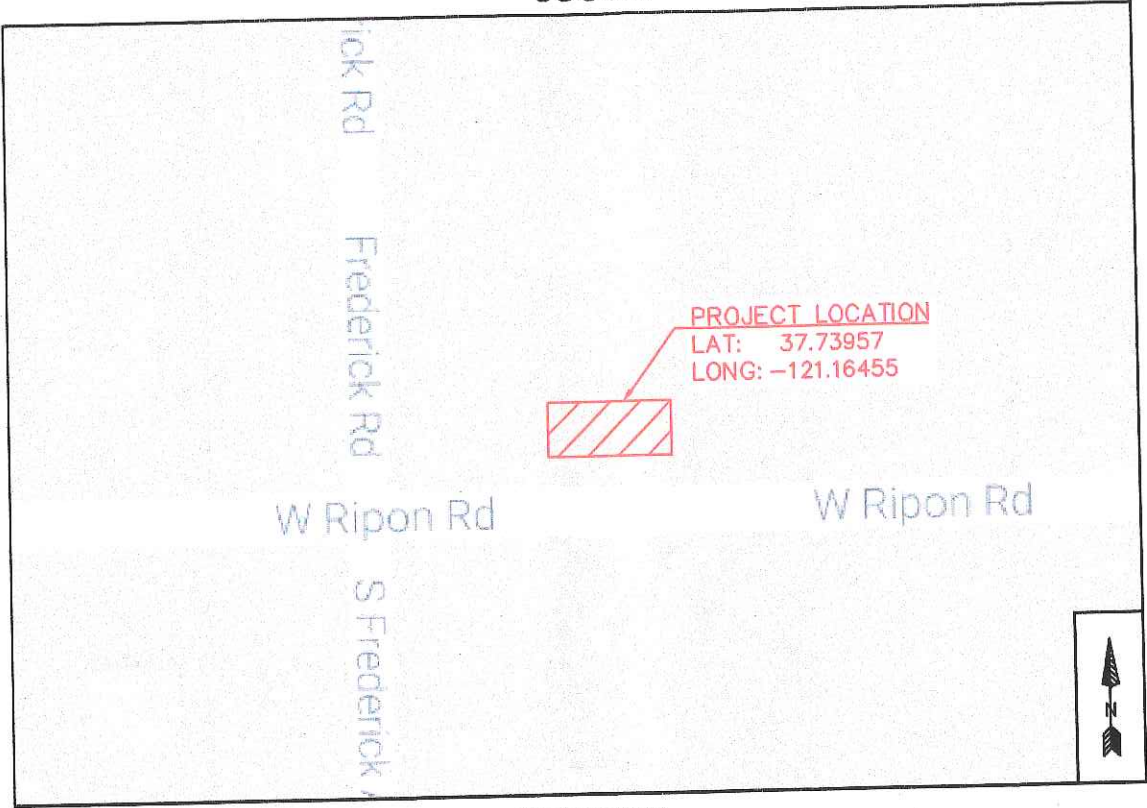
LEGEND

28" CONE	EXISTING STRIPING (LANE LINE)	DRIVEWAY	EXISTING STRIPING (CENTER LANE, DOUBLE LINE)
CONTRACTOR'S WORK AREA	DIRECTION OF TRAVEL	HIGH VISIBILITY SIGN STAND	TEMPORARY TOW AWAY NO STOPPING ANYTIME
			T.A.N.S.A.T.

Owner: FRONTIER COMMUNICATIONS		Date: MAY-18-2017
Sheet Number: 1 OF 1		PHONE: 310-378-5994
PRIME CONTRACTOR: CYIENT, INC		Prepared By: Steven Tuffe Santos
<p>NOT TO SCALE</p>	City: RIPON	<p>1-800-414-0335 "WMBE" CALIC. # 829791</p>
	Street: W RIPPON RD	
	Project Name: CAF II	
	Project Number: WO421931-5200069	
	Date of Revision:	

CAF II CONDUIT PACKAGE

CAF II SITE PLAN DETAIL
W RIPON RD
RIPON, CA.
95366



VICINITY MAP
NTS

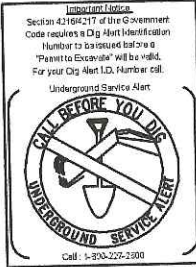
PICK UP POINT:
-UTILITY P# RIPNCAXF 121211.CTC

TRENCH LENGTH:
- FTR TRENCH = 20'
- SCE TRENCH = 20'

FTR MATERIALS:
-30' OF 4" PVC
-(1) DSLAM XC

POWER UTILITY MATERIALS:
-30' OF 3" PVC
-(1) POWER PED

-ACTUAL FOOTAGES OF PVC WILL BE NEEDED TO ORDER MATERIALS. PLEASE INCLUDE MULE TAPE IN ALL PVCS.
-FRONTIER INSPECTOR SHALL BE PRESENT ON SITE WHEN CONTRACTOR NEEDS TO ACCESS WITH ANY EXISTING FRONTIER FACILITY.



Frontier COMMUNICATIONS	
JOB ID: 5200069	DATE: 05/17/2017
TITLE: CONDUIT DESIGN	
STREET ADDRESS: FREDERICK AVE & W RIPON RD	
CITY/STATE: RIPON, CA	
FTR ENGINEER: JIMMY CARTER (209)-239-0655	
FTR INSPECTOR: TBD	
DRAWN BY: CYIENT	
EST. #:	SHEET#: 01 OF 05

FRONTIER CALIFORNIA
CONSTRUCTION SPECIFICATIONS

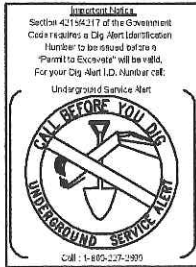
1. Contact Local Frontier Engineer sixty (60) days prior to need of service in order to confirm compliance, order materials, and schedule work forces. NOTE; FRONTIER CALIFORNIA, INCORPORATED, RESERVES THE RIGHT TO REFUSE ANY CONDUIT, PULL BOXES, MANHOLES, OR UTILITY BOXES THAT DEVIATE FROM PLANS AND SPECIFICATIONS.
2. All conduit risers bends to have a minimum thirty-six (36) inch radius.
3. All horizontal ninety (90) degree bends shall have a radius of not less than 12.5 feet and all vertical ninety (90) degree bends shall have a radius of not less than three feet. No more than two ninety (90) degree horizontal bends shall be placed in any single run unless otherwise specified. Contact Frontier engineer concerning any required deviations
4. All conduit must be proofed using a mandrel no less than a 1/2" smaller than the conduit placed. Wall to wall measurements must be taken with a true tape and a 3/8" polypropylene pull rope provided in each duct. An accurate wall to wall measurement of conduit placed must be As-built on approved Frontier construction plan. A copy of the As-built conduit work order must be provided to the Frontier inspector assigned to your project, before entrance cable can be designed and ordered. Contact Local Inspector for coordination of inspection dates. DEVIATION FROM THIS PLAN WITHOUT CONSENT FROM FRONTIER MAY CAUSE DELAYS IN PROVIDING SERVICE.
5. Rigid steel or approved plastic conduit (PVC Sch. #40, TYPE-C (4") or DB-120 (2")) is specified in underground construction unless otherwise specified.
6. Conduit terminated on a pole must be PVC Sch. 80. If conduit will be exposed to traffic, rigid steel pipe and sweep will be required to 48" above finished grade otherwise turned up 12" above finished grade. Location of riser on pole will be called out on conduit plan by Frontier engineer or inspector.
7. Conduit placed in same trench with primary power conduit must be separated by no less than twelve (12) inches of well-packed sand or three inches of concrete, and have no less than thirty-six (36) inch cover to top of pipe when placed behind curb face. All street crossings and ducts placed in the driven portion of the roadway must have no less than forty-eight (48) inch of cover to top of pipe. CONTACT THE FRONTIER INSPECTOR 48 HOURS BEFORE TRENCHING AND UPON COMPLETION OF YOUR SUBSTRUCTURES TO SCHEDULE THE FINAL INSPECTION.
8. Provide manhole(s) x x -# Quickset, Brooks or equivalent with manhole cover marked "Frontier", and conduit terminator's furnished from the manufacturer as per Frontier specifications. Place 3' x 5' or 2 x 3' pull box(es). As specified in conduit plan, All Utility boxes shall be traffic rated. Install cable racks and ground rod per manufacturer specifications, DO NOT place pull boxes in vehicular traffic areas.

CURVE DATA				
	△	R	L	D
△	90°00'00"	12.5'	19.6'	90
△	45°00'00"	12.5'	9.8'	45
△	22°30'00"	12.5'	4.9'	22.5

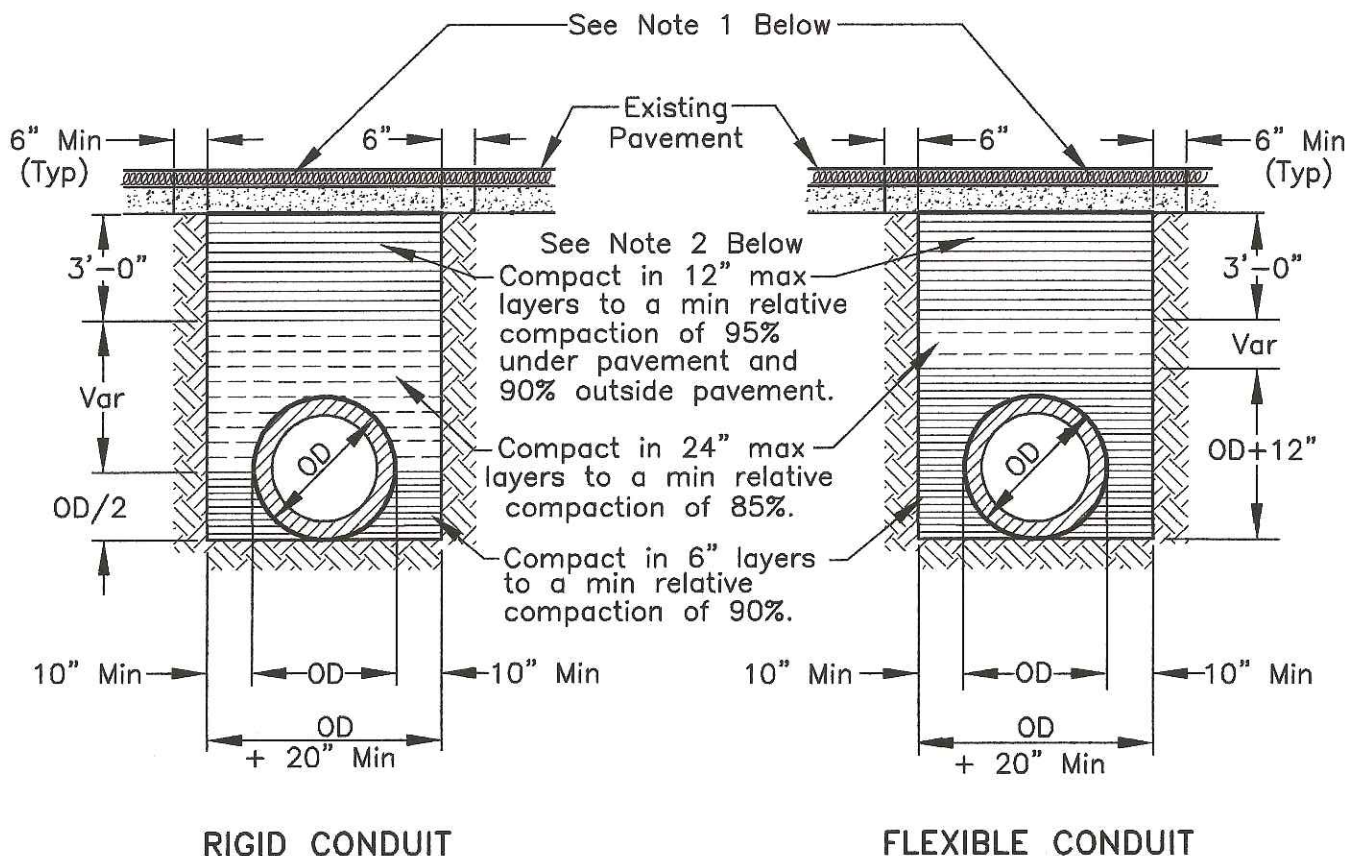
ABBREVIATIONS

BLDG	BUILDING	PED	PEDESTAL (UTILITY)
C/L	CENTER LINE	PVC	POLYVINYL CHLORIDE
CONC	CONCRETE	P/L	PROPERTY LINE
CSW	CONCRETE SIDEWALK	RR	RAILROAD
DWY	DRIVEWAY	R/W	RIGHT OF WAY
EOC	EDGE OF CURB	SL	STREET LIGHT
EOP	EDGE OF PAVEMENT	W-BLDG	WALL TO BUILDING
HH	HANDHOLE	W-P	WALL TO POLE
MH	MANHOLE	W-W	WALL TO WALL
NTS	NOT TO SCALE		

LEGEND	
	Mainline/ Backbone Conduit or ABS
	Service Lateral Conduit
	Existing Gas
	Existing Water
	Existing Telephone
	Existing Sewer
	Existing Storm Drain
	Existing Electric
	Existing Manhole
	Existing Handhole (2'x3' or 17"x30")
	Existing 3'x5' Concrete Pull Box
	Existing Pole
	4'x4' Bore Pit
	4'x6' Bore Pit
	Proposed 4'x6' Manhole
	Proposed 2'x3' Handhole
	Proposed 3'x5' Pullbox
	Proposed Pole
	3/8"-8' Copper Driven GRD Rod
	Numbers = Mainline PVC With Pull Rope
	Letters = Service Lateral PVC With Pull Rope
	Frontier to place conduit in developer provided trench. Pro-rata trench footage will be reimbursed.
	Frontier to trench and place conduit according to Frontier design specifications. No reimbursement.

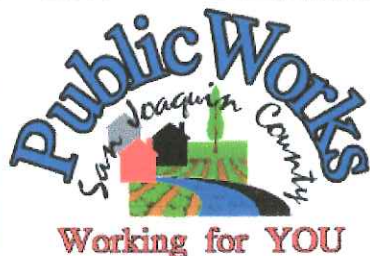


Frontier COMMUNICATIONS	
JOB ID: 5200D69	DATE: 05/17/2017
TITLE: CONDUIT DESIGN	
STREET ADDRESS: FREDERICK AVE & WRIPON RD	
CITY/STATE: RIPON, CA	
FTR ENGINEER: JIMMY CARTER (209)-239-0655	
FTR INSPECTOR: TBD	
CYIENT	DRAWN BY: CYIENT
	EST. #:
	SHEET#: 02 OF 05



NOTES:

1. New pavement shall be 1" thicker than existing pavement, minimum of 0.25 Ft. New base shall be 1" thicker than existing base, min of 0.50 Ft.
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7. Special bedding and backfill requirements may be shown on the plans or specified in the special provisions.



TYPICAL TRENCH BACKFILL

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

Date: DEC 2014

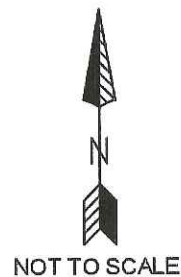
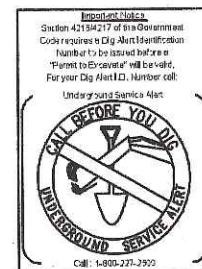
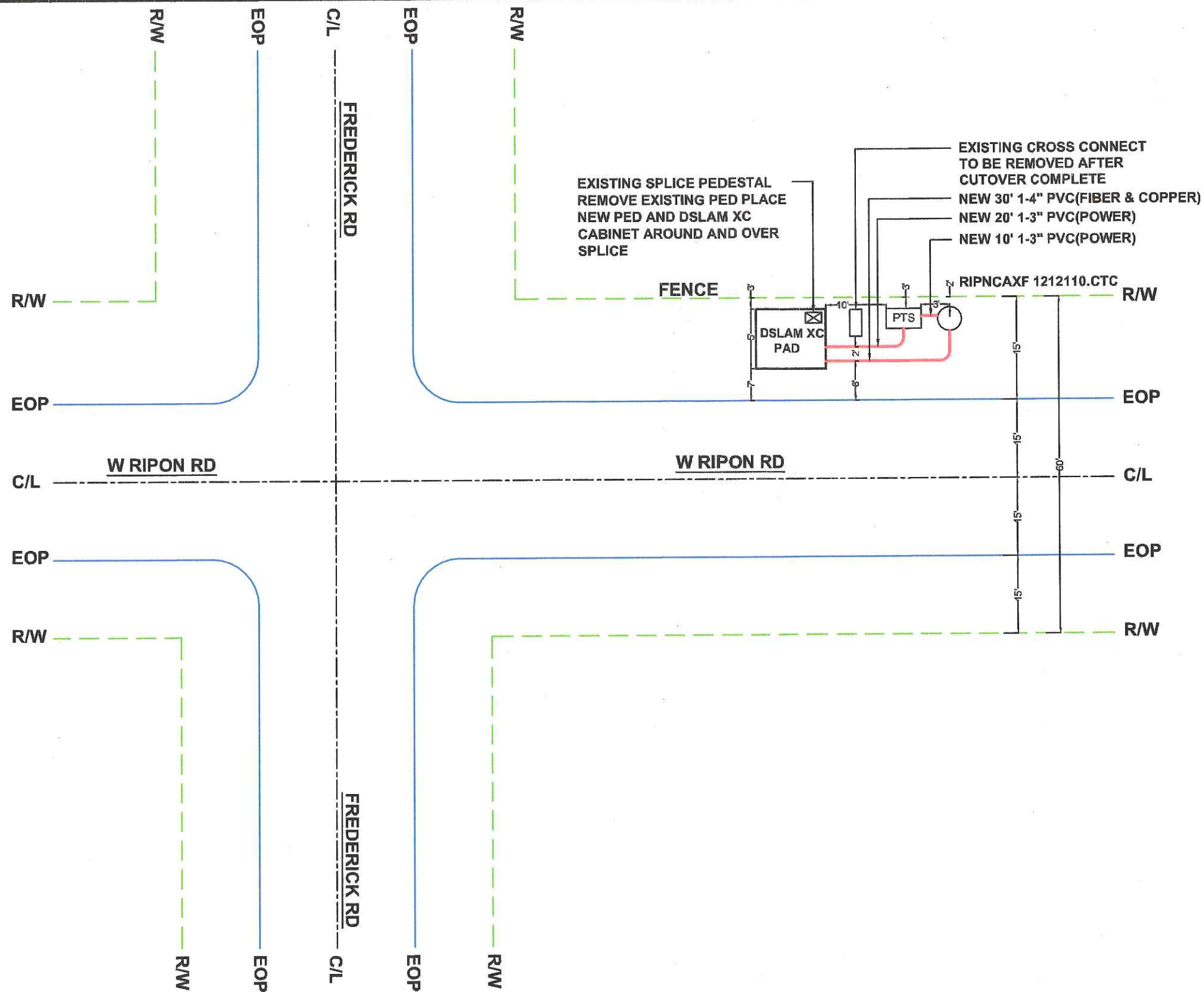
Approved by:

Thomas M. Gull

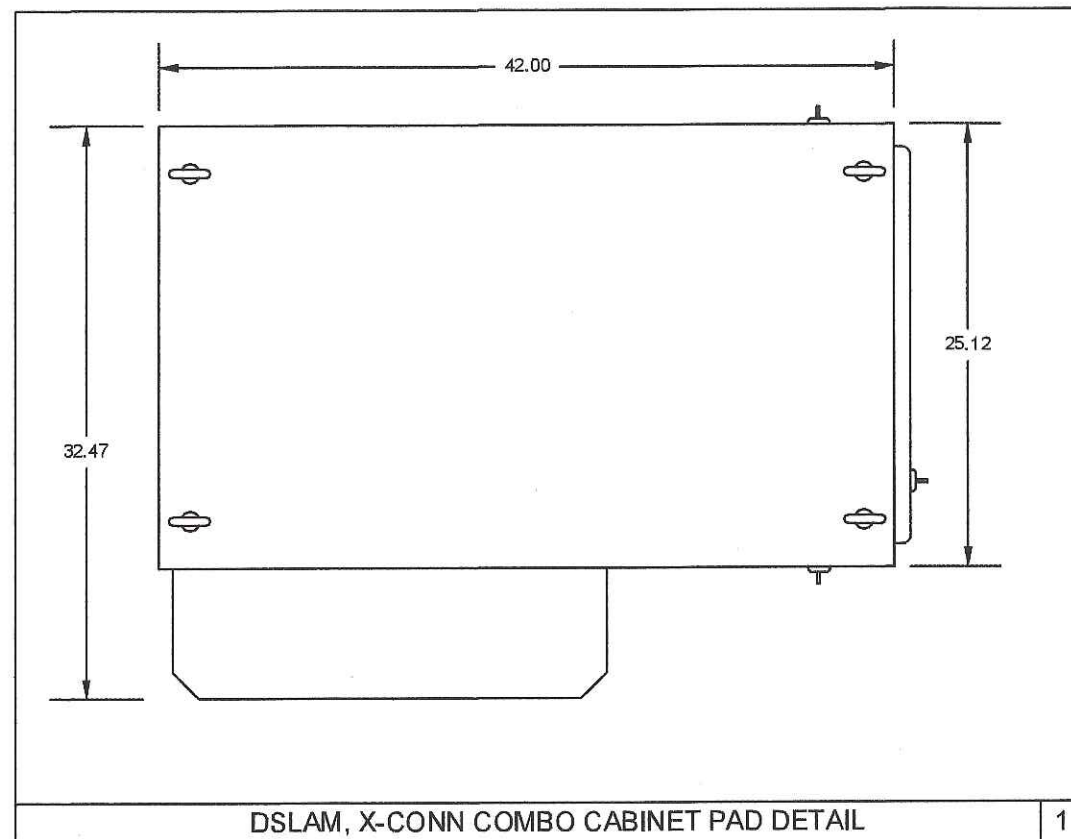
No.	Revision	Description	Date

Std. Dwg. No.

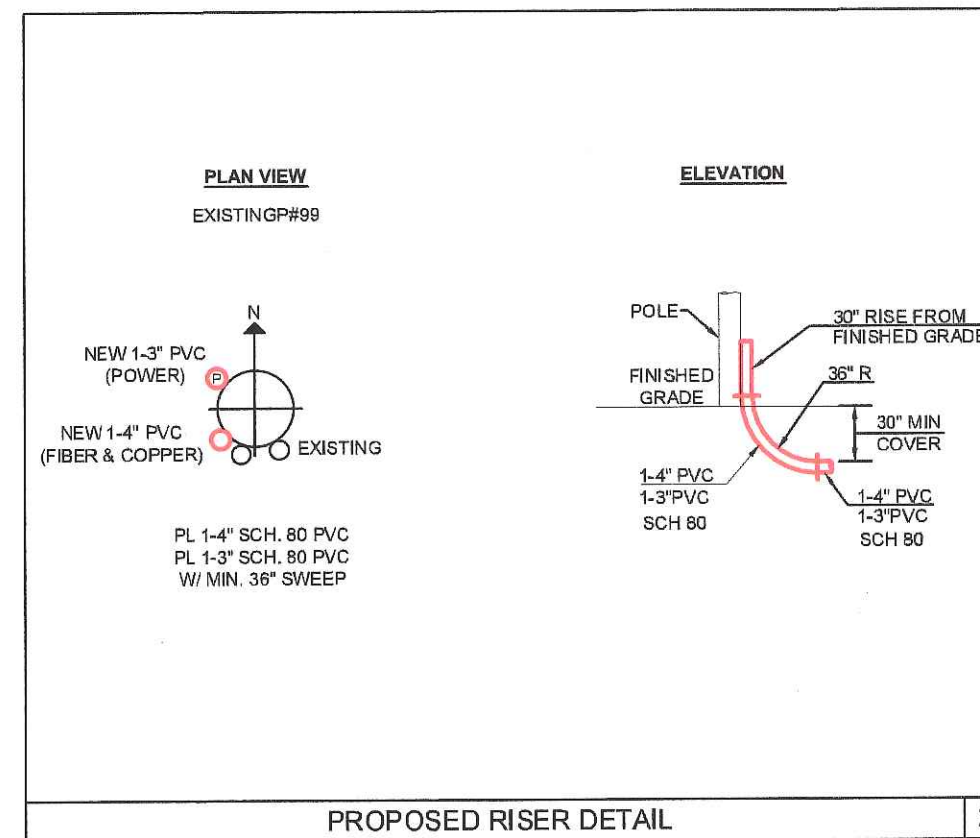
R-29



JOB ID: 5200069		DATE: 05/17/2017
TITLE: CONDUIT DESIGN		
STREET ADDRESS: FREDERICK AVE & W RIPON RD		
CITY/STATE: RIPON, CA		
FTR ENGINEER: JIMMY CARTER (209)-239-0655		
FTR INSPECTOR: TBD		
DRAWN BY: CYIENT		
	EST. #:	SHEET#:
		03 OF 05



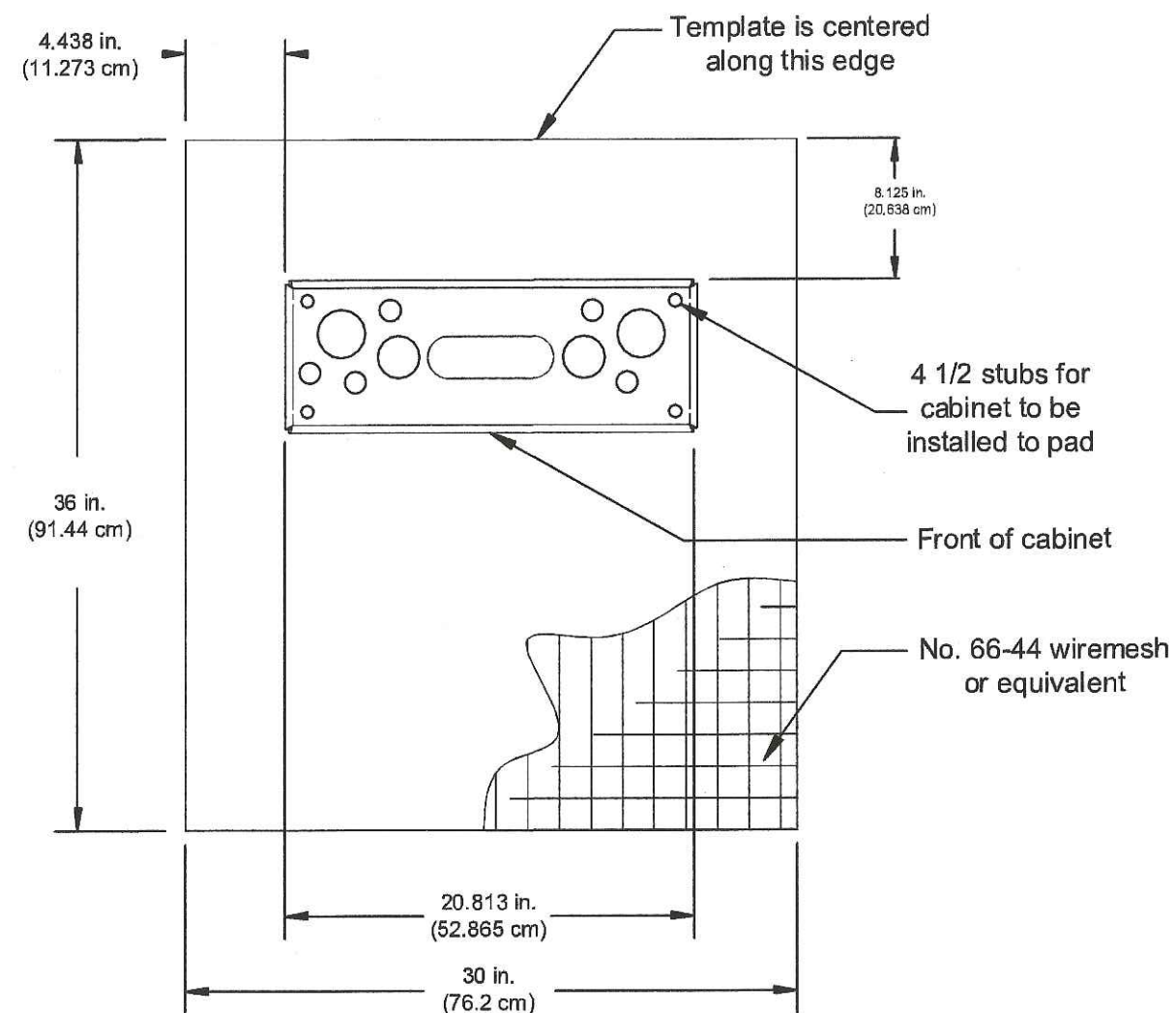
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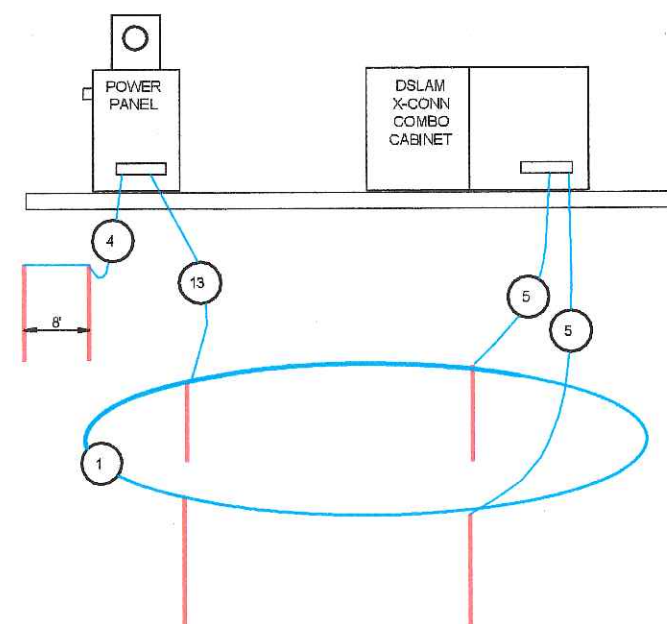
Frontier
COMMUNICATIONS

JOB ID: 5200069	DATE: 05/17/2017
TITLE: CONDUIT DESIGN	
STREET ADDRESS: FREDERICK AVE & W RIPON RD	
CITY/STATE: RIPON, CA	
FTR ENGINEER: JIMMY CARTER (209)-239-0655	
FTR INSPECTOR: TBD	
DRAWN BY: CYIENT	
CYIENT	EST. #:
	SHEET#: 04 OF 05



Power Transfer Switch
Pad Construction and Preparation

LEAD NO	SIZE	LOCATION
1	No.2 AMG	Direct bury a No. 2 AMG bare, tinned, solid copper ground wire, 30" below grade, 18" outside the concrete pad.
4	Sized per Exhibit 1	Electrical service ground. (Certified Electrician only.)
5	No. 2 AWG	Two No. 2 AWG bare, tinned, solid copper ground wires from opposing corners of the ground ring, to the Mesa ground bar.
13	No. 6 AMG	No. 6 AMG insulated ground wire, inside 1" PVC conduit, from the Ground ring to-ground bar to the main AC Ground bus.



Typical Drawing layouts
will vary depending on field situation

Frontier COMMUNICATIONS	
JOB ID: 5200069	DATE: 05/17/2017
TITLE: CONDUIT DESIGN	
SITE ADDRESS: FREDERICK AVE & W RIPON RD	
CITY/STATE: RIPON, CA	
FTR ENGINEER: JIMMY CARTER (209)-239-0655	
FTR INSPECTOR: TBD	
DRAWN BY: CYIENT	
CYIENT	EST. #
	SHEET#: 05 OF 05

