

**ORDER GRANTING PERMIT AND RIGHT-OF-WAY  
TO CONSTRUCT PIPELINE, ROAD CROSSING, AND/OR ROAD CUT**

Now, on this 13<sup>th</sup> day of February, ~~2016~~ 2017 at a regular session of the Commissioners' Court of Clay County, Texas, came on to be considered the application of (contractor) MasTec North America, Inc, (address) 320 Regal Row suite 200, Dallas Tx 75247 (telephone#) (972) 232-1430, hereafter referred to as "contractor", for a permit and right-of-way to lay, construct, maintain, operate or remove a pipeline, road crossing, and/or road cut, along, over and across or under the public roads, streets, alleyways or highways in the County of Clay, State of Texas, described on the plat attached, and the court having considered such application, it is accordingly ORDERED by the Court:

1. That the County of Clay, State of Texas, does hereby grant the right, privilege and right-of-way to contractor to lay, construct, maintain, operate and/or remove a pipeline, road crossing, and/or road cut, along, over, across or under the public roads, streets, alleyways of the County of Clay, State of Texas, as described in the plat attached.
2. That such pipeline, road crossing, and/or road cut, shall be buried, covered, constructed and maintained as not to interfere with the uses and occupancy of such roads by the public and shall be buried at least three (3') feet below the present barditch on said county road.
3. That any adjustment of said pipeline, road crossing, and/or road cut, required for any state farm to market road or any other improved road would be at 100% percent cost to contractor.
4. That all the rights, privileges and right-of-ways hereinabove mentioned are by this order duly vested in the said contractor, its successors and assigns, without any further grant or procedure.
5. That contractor shall restore roadway and/or right-of-way to its previous condition; and/or shall pay to Clay County, Texas reasonable compensation for the restoration of said roadway and/or right-of-way.

\_\_\_ (check if applicable) an agreed payment as reasonable compensation in the amount of ~~\$200.00~~ payable by contractor to Clay County, Texas.

\$800.00

Agreed and Accepted:

MasTec North America, Inc  
Contractor

By: \_\_\_\_\_  
Title

STATE OF TEXAS §  
COUNTY OF \_\_\_\_\_ §

Before me, the undersigned authority, on this day personally appeared \_\_\_\_\_, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed and in the capacity therein stated.

Given under my hand and seal of office this \_\_\_\_\_ day of \_\_\_\_\_, 2016.

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_ County, Texas

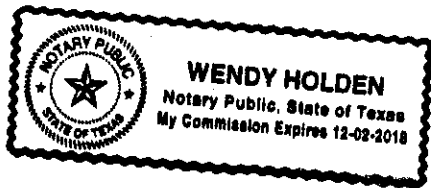
Kenneth Liggett  
Kenneth Liggett, County Judge

\*\*\*\*

STATE OF TEXAS §  
COUNTY OF CLAY §

Before me, the undersigned authority, on this day personally appeared Kenneth Liggett known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed and in the capacity therein stated.

Given under my hand and seal of office this 13 day of Feb, 2016.



Wendy Holden  
Notary Public in and for Clay County, Texas

281

1954

2393

TOWANDA TPA

© 2015 Google

Google Earth

1995

Imagery Date: 7/12/2015 33°47'39.72" N 98°26'21.34" W elev 959 ft eye alt 22517 ft

# ZAYO GROUP

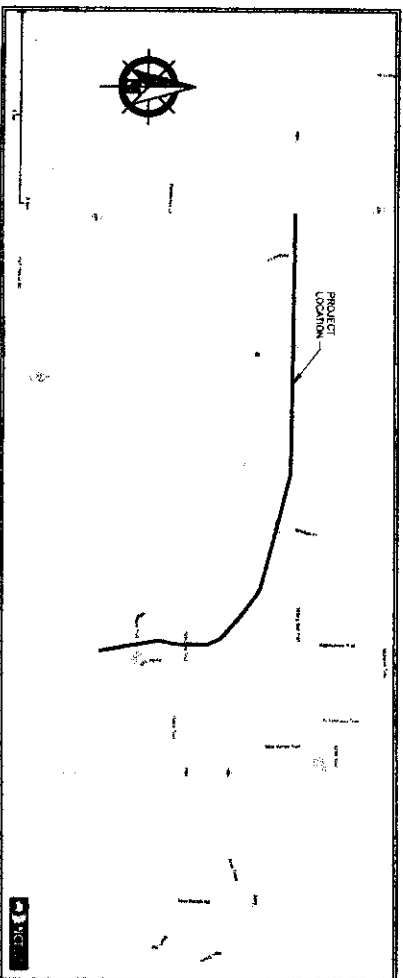
REVISION	DATE
ASBUILT TO IJC BLUE 310 ROW PERMITS REVISED SHEETS 43-48	12-07-2016
REMOVED ARIEL BERT TROTT ASBUILTS REVISED SHEETS 1-23, 22-24, 31-43, 43-48	02-06-2017
REVISED LOWER LOCATION REVISED SHEETS 48-49	
REVISED SHEETS 50-52	

## DA LAKE ARROWHEAD 4712 FM 1954 ARCHER CO. & CLAY CO., TX.

### GENERAL PROJECT NOTES

1. ALL CONSTRUCTION WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE ORDINANCES AND REGULATIONS OF THE MUNICIPALITY IN WHICH THE WORK IS TO BE PERFORMED.
2. EXISTING UTILITY LOCATIONS SHOWN ARE TAKEN FROM AVAILABLE RECORDS AND MAY NOT BE ALL INCLUSIVE. UTILITY LOCATIONS ARE GENERALLY SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. THE CONSTRUCTION CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL LINE LOCATES IN THE FIELD AND THE PROTECTION OF ALL EXISTING FACILITIES WHETHER SHOWN OR NOT. THE CONSTRUCTION CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO ANY EXISTING FACILITY DAMAGED AS A DIRECT RESULT OF THE CONSTRUCTION ACTIVITIES WHETHER THE FACILITY IS SHOWN ON THE DRAWINGS OR NOT.
3. THE CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL DEPARTMENTS WITHIN THE MUNICIPALITY AND THE UTILITY COMPANIES AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK.  
CALL BEFORE YOU DIG  
811  
IT'S THE LAW

VICINITY MAP



4. IT SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO: A) PREVENT DAMAGE TO PRIVATE AND PUBLIC PROPERTY; B) RESTORE ALL AREAS EFFECTED BY THE CONSTRUCTION TO ORIGINAL OR BETTER CONDITION.
5. BARRICADING AND TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR AND SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. THE CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON THE PROJECT. THE WORK SITE SHALL BE SUITABLY LIGHTED AND BARRICADED AT NIGHT.
6. THE CONSTRUCTION CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS GOVERNING EXCAVATION. THE CONSTRUCTION CONTRACTOR SHALL PROVIDE ALL FRENCH SAFETY SYSTEMS THAT COMPLY WITH ALL LAWS GOVERNING EXCAVATION. THE CONSTRUCTION CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ASPECTS OF WORK RELATED TO EXCAVATION.
7. ALL CONCRETE USED IN ANY ROADWAY SHALL BE IN COMPLIANCE WITH THE SPECIFIED CLASSES OF CONCRETE IN THE STANDARD SPECIFICATIONS 5.8 "PORTLAND CEMENT CONCRETE PAVEMENT" AND 7.4.5 "QUALITY OF CONCRETE" AS AMENDED BY THE ADDENDUM TO THE NORTH CENTRAL TEXAS STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 2004. ALL OTHER CONCRETE SHALL BE CLASS A CONCRETE.
8. ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAINS OR OTHER APPROVED SUPPORT.
9. ALL CONDUIT MUST BE PLACED WITH A MINIMUM 42" OF COVER, UNLESS OTHERWISE SPECIFIED.
10. ALL BACKFILLING WILL BE MECHANICALLY TAMPED IN LIFTS TO A DENSITY OF 95% PROCTOR. THE REQUIRED DENSITY WILL BE OBTAINED BY USING TAMPERS, RAMMERS OR ROLLING EQUIPMENT. LIFTS MAY VARY ACCORDING TO THE TYPE OF EQUIPMENT USED TO OBTAIN THE REQUIRED DENSITY. SAND AND DEBRIS FREE MATERIAL WILL BE USED FOR BACKFILL.

DPWT CONTACT: DAVID HATTON 972.670.2113

PREPARED BY: DFW TELECOM, INC.



ESTIMATED PROJECT TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	11,073'	PLACE WALL		FOC UNDERGROUND	11,805'
BORE & PLACE CONDUIT	732'	PLACE 30" x 60" x 48" MANHOLE	9	FOC RISER 25 FT.	225'
BORE & PLACE STEEL CASING		PLACE 30" x 60" x 48" MANHOLE		FOC OVERHEAD	17,450'
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT.	9	FOC ON SLACK LOOP	1,350'
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY	9	FOC UP SLACK LOOP	800'
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND OVERLASH		FOC TOTAL FOOTAGE	31,630'
AERIAL POLE CONTACTS	97	AERIAL STRAND NEW BUILD	17,450'		

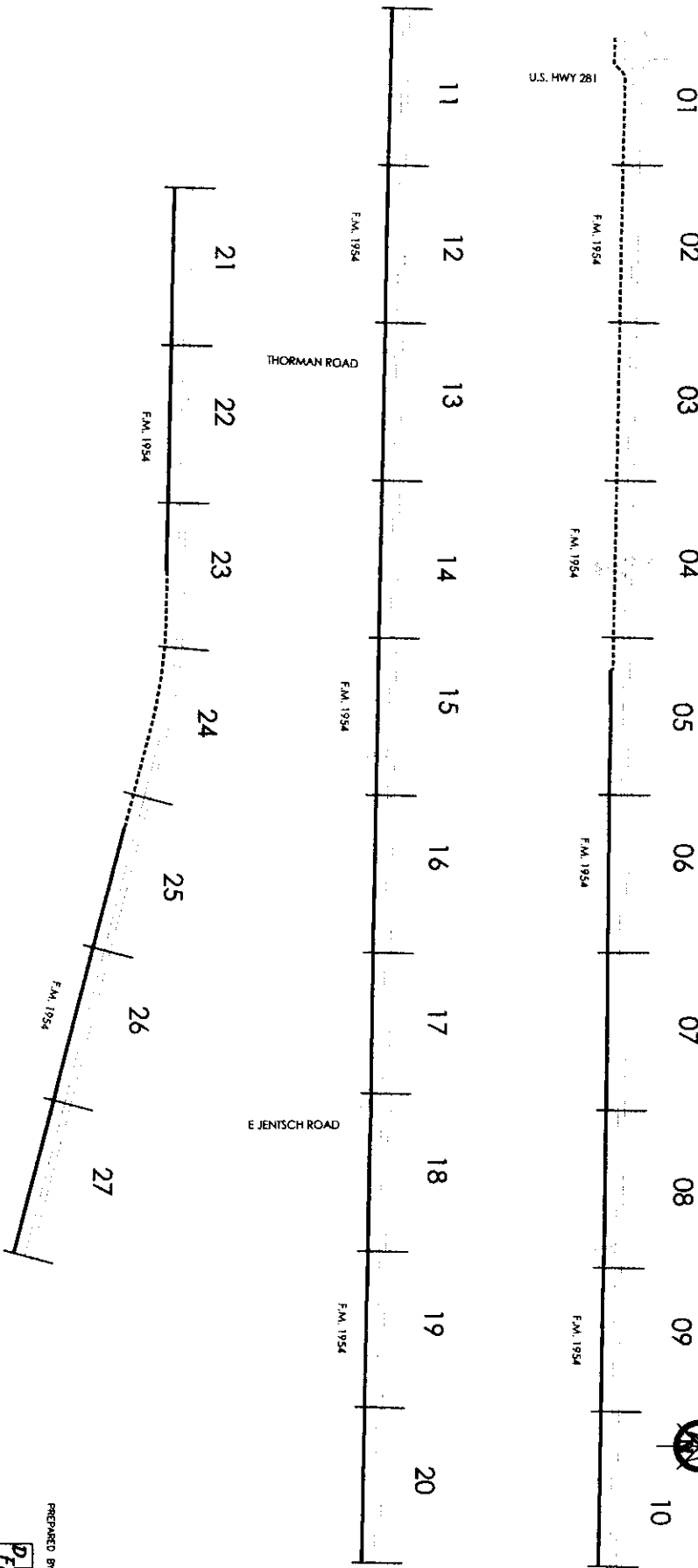
PROJECT OVERVIEW

NOT TO SCALE

LEGEND

-----	PROPOSED CONDUIT
-----	PROPOSED LEASE DUCT
-----	AERIAL, NEW BUILD

IE POINT



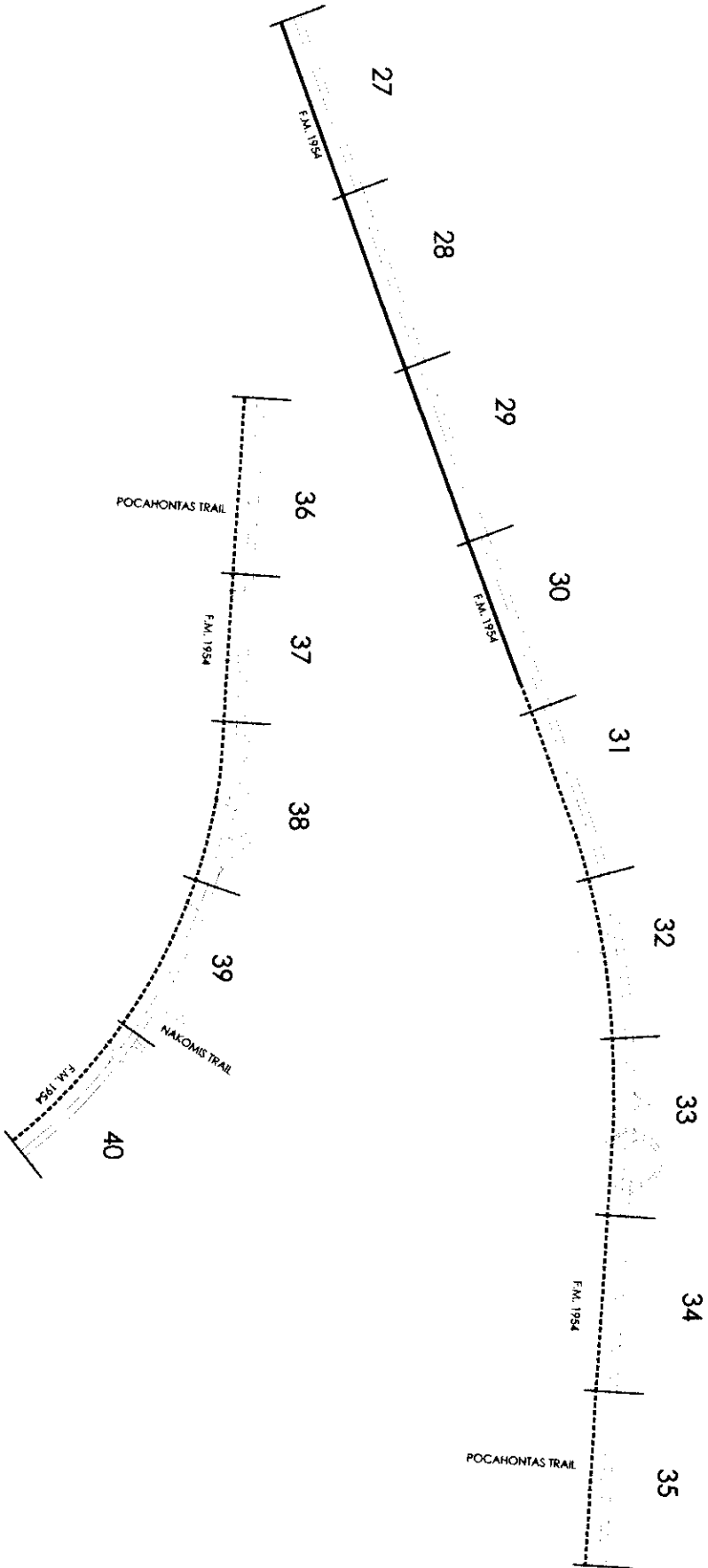
PREPARED BY:



# PROJECT OVERVIEW

NOT TO SCALE

LEGEND	
-----	PROPOSED CONDUIT
-----	PROPOSED LEASE DUCT
-----	ASBIL - NEW BUILD






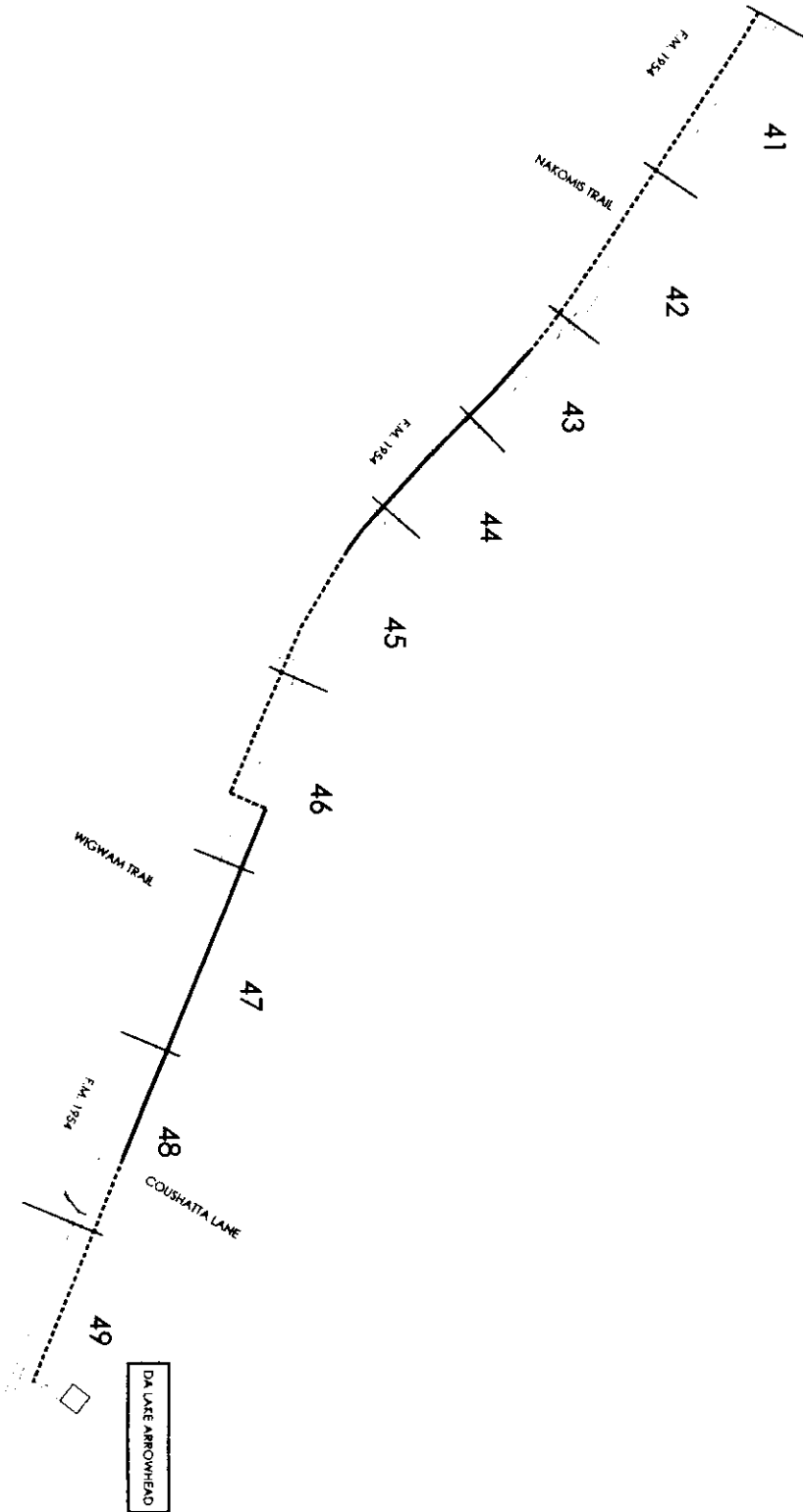
PREPARED BY:



## PROJECT OVERVIEW

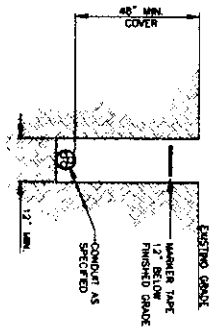
NOT TO SCALE

LEGEND	
	PROPOSED CONDUIT
	PROPOSED LEASE DUCT
	ACTUAL: NEW BUILD

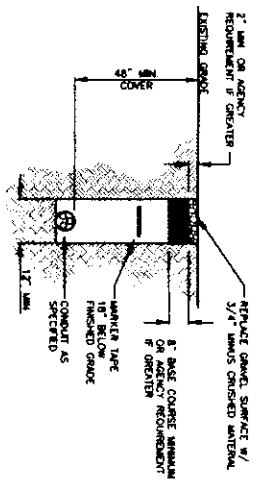


PREPARED BY:

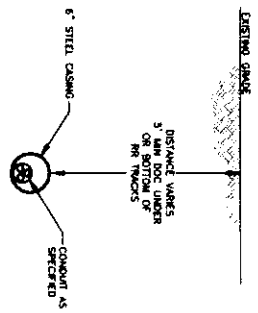




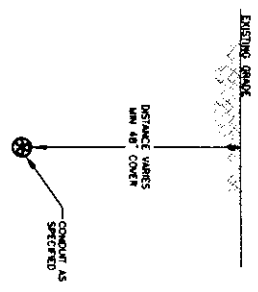
TYPICAL TRENCH IN EARTH



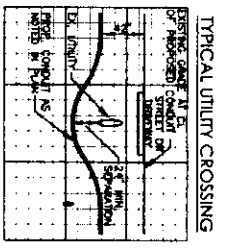
TYPICAL TRENCH IN GRAVEL



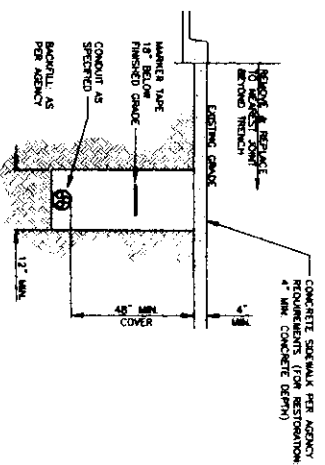
TYPICAL JACK AND BORE



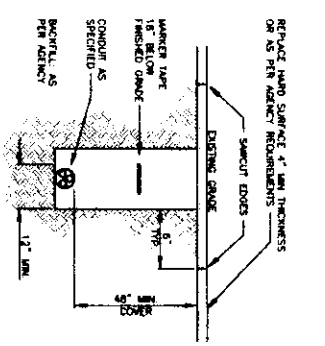
TYPICAL DIRECTIONAL BORE



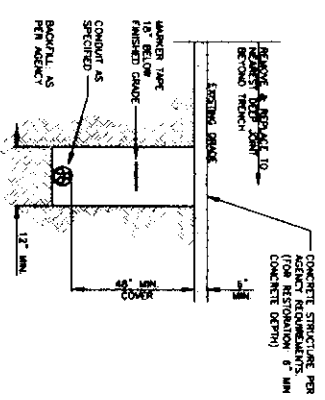
TYPICAL UTILITY CROSSING



CONCRETE SIDEWALK RESTORATION



ASPHALT PAVEMENT RESTORATION

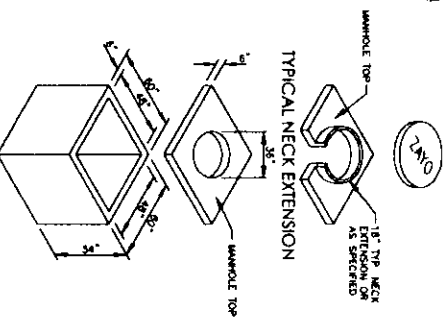
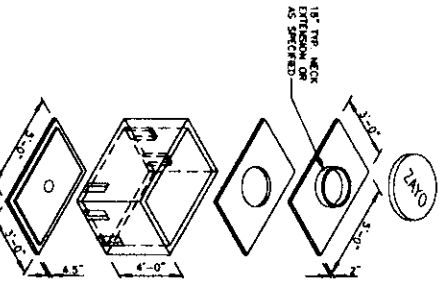
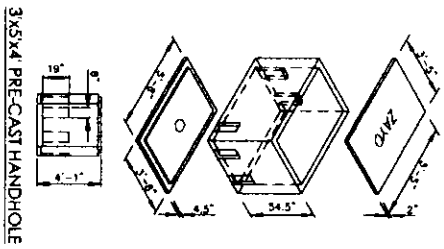


CONCRETE PAVEMENT RESTORATION

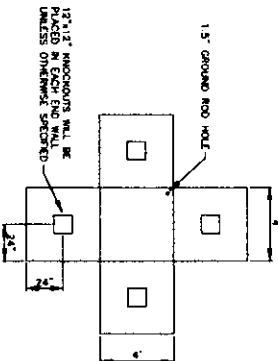
## TYPICAL TRENCH DETAILS

NOT TO SCALE

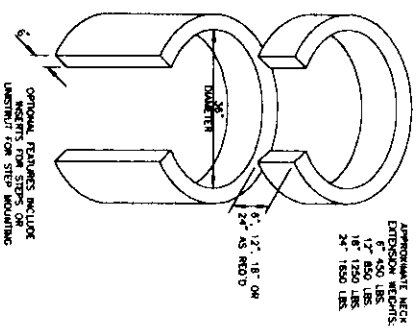




4'x4'x4' PRE-CAST MANHOLE  
6' WALLS, 6' ROOF, 48" HEADROOM

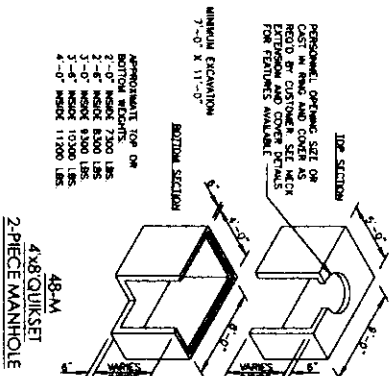


3'x5'x4' PRE-CAST MANHOLE

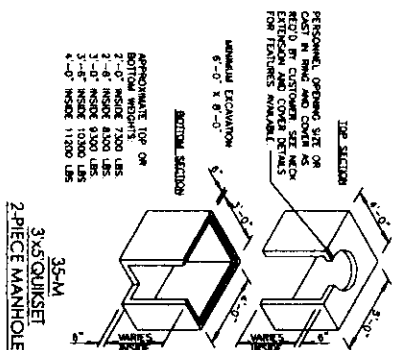


APPROXIMATE NECK  
EXTENSION HEIGHTS:  
12" 850 LBS.  
18" 1250 LBS.  
24" 1800 LBS.

ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4500 PSI.  
REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60. FOR GRADE 60 OR HIGHER GRADE 70, ALL REINFORCING SHALL BE COMPLIANT WITH THE LATEST A615 STANDARDS.  
STANDARD STRUCTURAL DESIGN IS BASED ON AASHTO HS 20 WHEEL LOADING.  
WATER TABLE IS AT 3'-0" BELOW GRADE FOR STANDARD STRUCTURAL DESIGN.  
THE STANDARD DESIGN IS BASED ON A COMPACTED GRANULAR BED OF 30% PERCENTAGES OF SAND PERCENTAGES.  
DESIGN DETAILS BASED ON OTHER LOADS OR DESIGN DETAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PENETRATIONS CAN BE PROVIDED IN THE SIZE AND CONDITIONS REQUIRED. INSERTS, PULLING RINGS OR SLIPS CAN BE SUPPLIED AS REQUESTED.



48-M  
2-PIECE MANHOLE

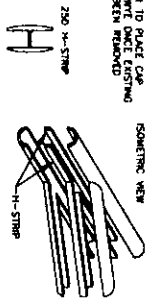
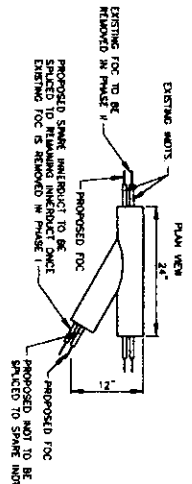
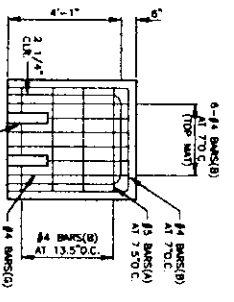
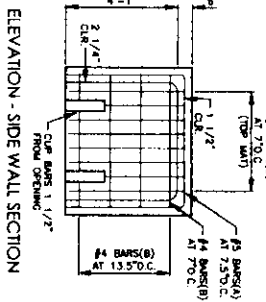
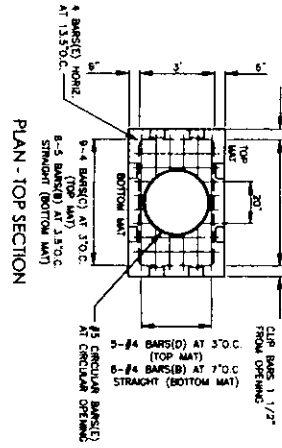


35-M  
2-PIECE MANHOLE

## TYPICAL MANHOLE & HANDHOLE DETAILS

NOT TO SCALE

# Zayo GROUP



SPLIT PVC BRANCH WYE E/W H-STRIP

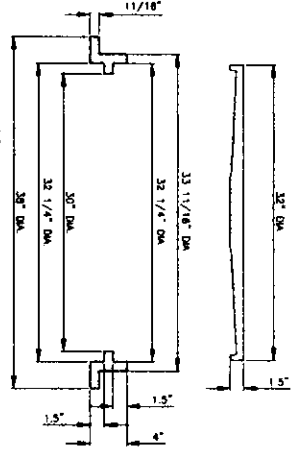
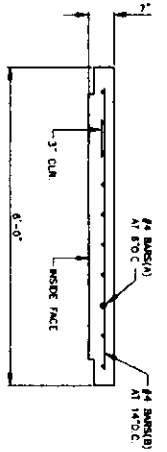
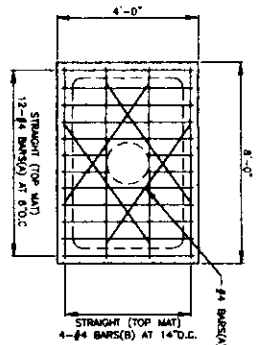


TABLE OF ASSEMBLED WEIGHTS			
COVER TYPE	52 HOLE VENT	48 HOLE VENT	52 HOLE VENT
A. SOLID	350 LBS (159 KG)	350 LBS (159 KG)	350 LBS (159 KG)



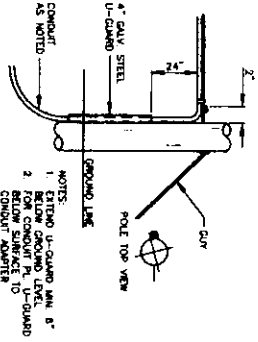
3'-0\"/>

ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4500 PSI. REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60 AY08 GRADE 60 OR A647 GRADE 70. THE LATEST AND STRONGEST SHALL COMPLY WITH STANDARD STRUCTURAL DESIGN IS BASED ON AISC08 H0 20 INTEL LOADING. WATER TABLE IS AT 3'-0" BELOW GRADE FOR STANDARD STRUCTURAL DESIGN. THE STANDARD DESIGN SHALL BE BASED ON THE TOP AT MAT ELEVATION BETWEEN THE STRUCTURE SHALL BE PLACED ON A COMPACTED GRANULAR BASE TO RESOLVE UNIFORM DISTRIBUTION OF SOIL PRESSURES. SPECIAL DESIGN SAID ON OTHER LOADINGS OR OTHER INSTALLATION DETAILS AND LOADINGS PROVIDED IN THE SITE AND LOCALITIES REQUIRED. INSERTS, PULLING RINGS OR SLEEPS CAN BE SUPPLIED AS REQUESTED.

## TYPICAL CONSTRUCTION DETAILS

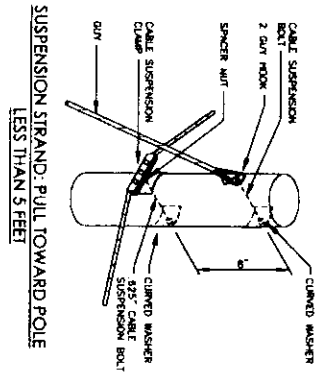


PREPARED BY:

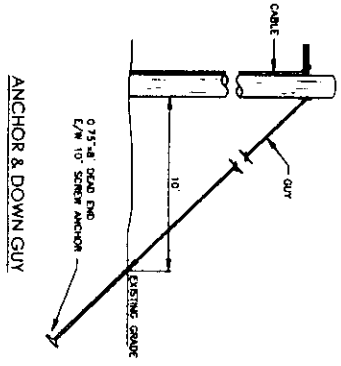


**RISER POLE ARRANGEMENT FOR AERIAL TO UNDERGROUND CONDUIT**

- NOTES:
1. EXTEND U-GUARD MAX. 8\"/>
  2. FOR CONDUIT PULL U-GUARD BELOW SURFACE TO CONDUIT ADAPTER

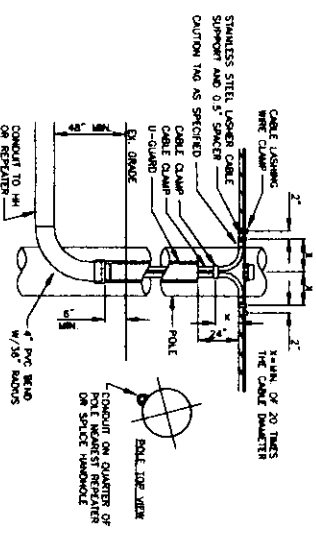


**SUSPENSION STRAND: PULL TOWARD POLE LESS THAN 5 FEET**

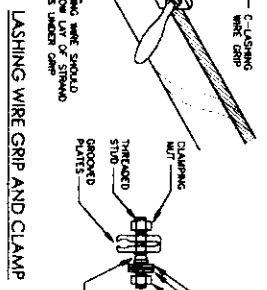


**ANCHOR & DOWN GUY**

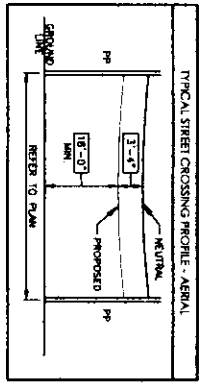
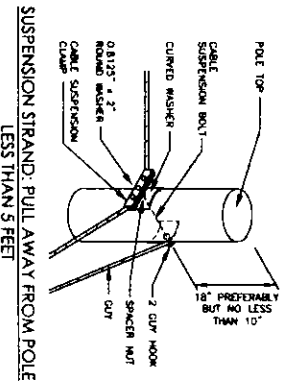
**POLE ARRANGEMENT FOR REPEATER OR HANDHOLE LOCATION**



**LASHING WIRE GRIP AND CLAMP**



**SUSPENSION STRAND: PULL AWAY FROM POLE LESS THAN 5 FEET**

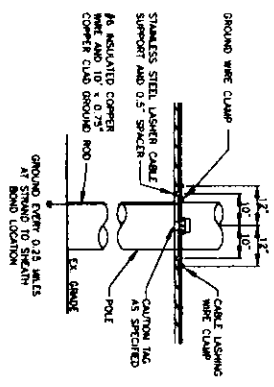


**TYPICAL STREET CROSSING PROFILE - AERIAL**

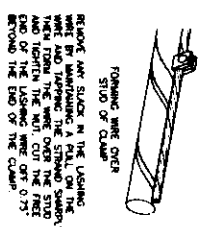
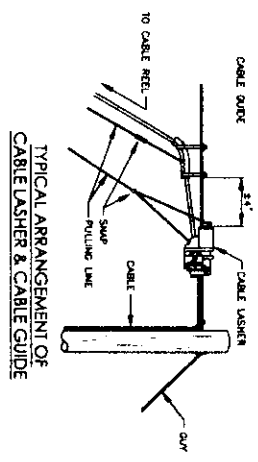
**TYPICAL AERIAL CONSTRUCTION DETAILS**

NOT TO SCALE

**TYPICAL CABLE & HARDWARE INSTALLATION**



**TYPICAL ARRANGEMENT OF CABLE LASHER & CABLE GUIDE**



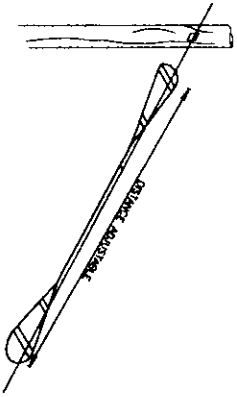
REMOVE ANY SLACK IN THE LASHING WIRE BY MANEUVERING A PULL ON THE WIRE OVER THE STUD AND TIGHTEN THE NUT. CUT THE FREE END OF THE LASHING WIRE OFF 0.75\"/>



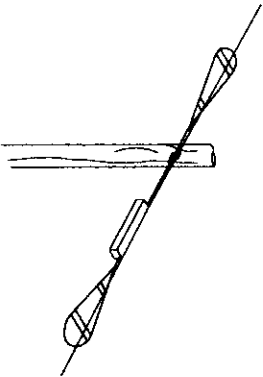
FORM THE LASHING WIRE AROUND THE STRAND AND PLACE IT BELOW THE WASHER AND TIGHTEN THE NUT AND STUD SHOULDERS.

PREPARED BY:

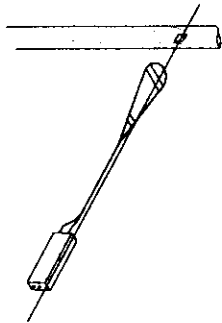




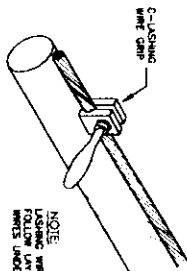
RESERVE CABLE LENGTH  
STRAND STORAGE APPLICATION



IN-LINE SPlice APPLICATION

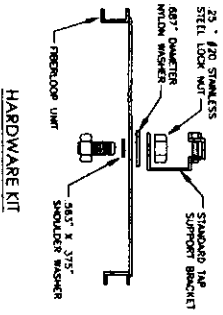


BUTT SPlice APPLICATION

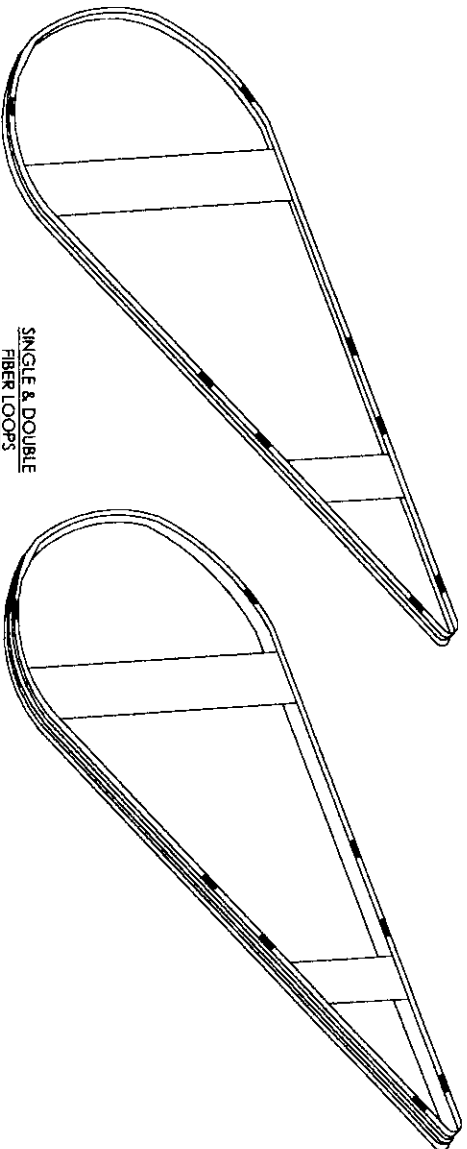


LASHING WIRE GRIP AND CLAMP C-LASHING  
WIRE GRIP INSTALLED ON STRAND

NOTE:  
LASHING WIRE SHOULD  
HAVE 1/2" GRIP



HARDWARE KIT

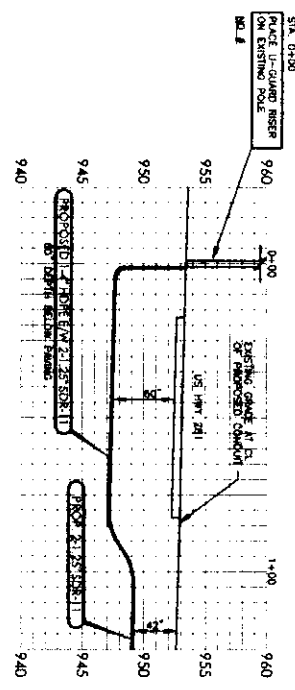
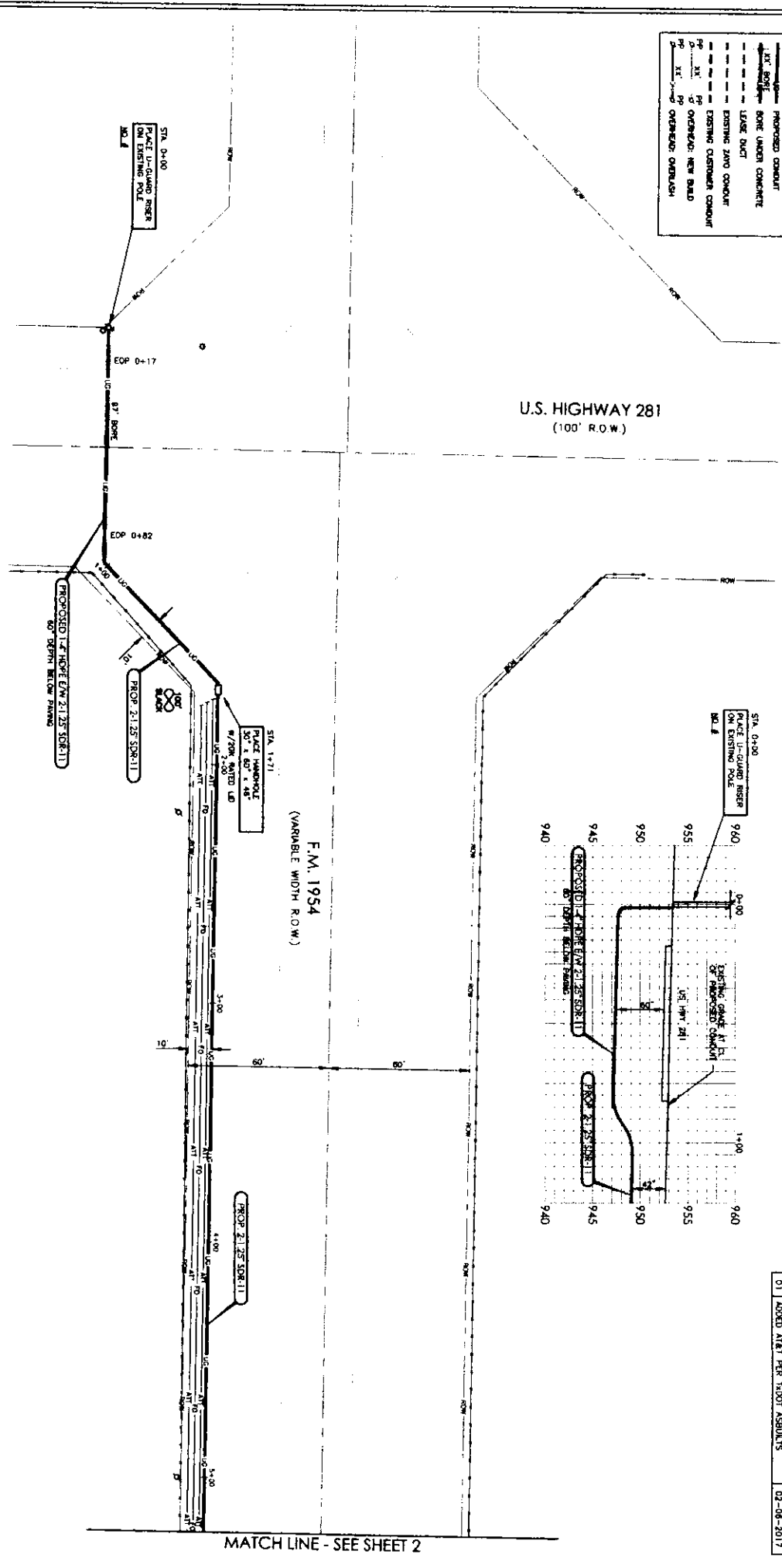


TYPICAL AERIAL IN-LINE SLACK STORAGE DETAILS

NOT TO SCALE

LEGEND

---	PROPOSED CONDUIT
---	EXISTING CONDUIT
---	EXISTING 24" CONDUIT
---	EXISTING 36" CONDUIT
---	EXISTING OVERHEAD CONDUIT
---	EXISTING NEW BUILD
---	OVERHEAD OVERLASH



PREPARED BY:

DAVID HATTON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TERMINAL & PLACE CONDUIT	428'	PLACE VALET		FOC UNDERGROUND	323
BORE & PLACE CONDUIT	97'	PLACE 30 HGT 48" HANDBOLE		FOC RISER 25 FT	25
BORE & PLACE STEEL CASING		PLACE 30 HGT 48" HANDBOLE	1	FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	100
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN GUY		FOC US SLACK LOOP	100
R & R CONCRETE PAVEMENT (S7)		AERIAL STRAND OVERLASH		FOC TOTAL FOOTING	848'
AERIAL POLE CONTACTS		AERIAL STRAND NEW BUILD			

NORTH

1 SHEET OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

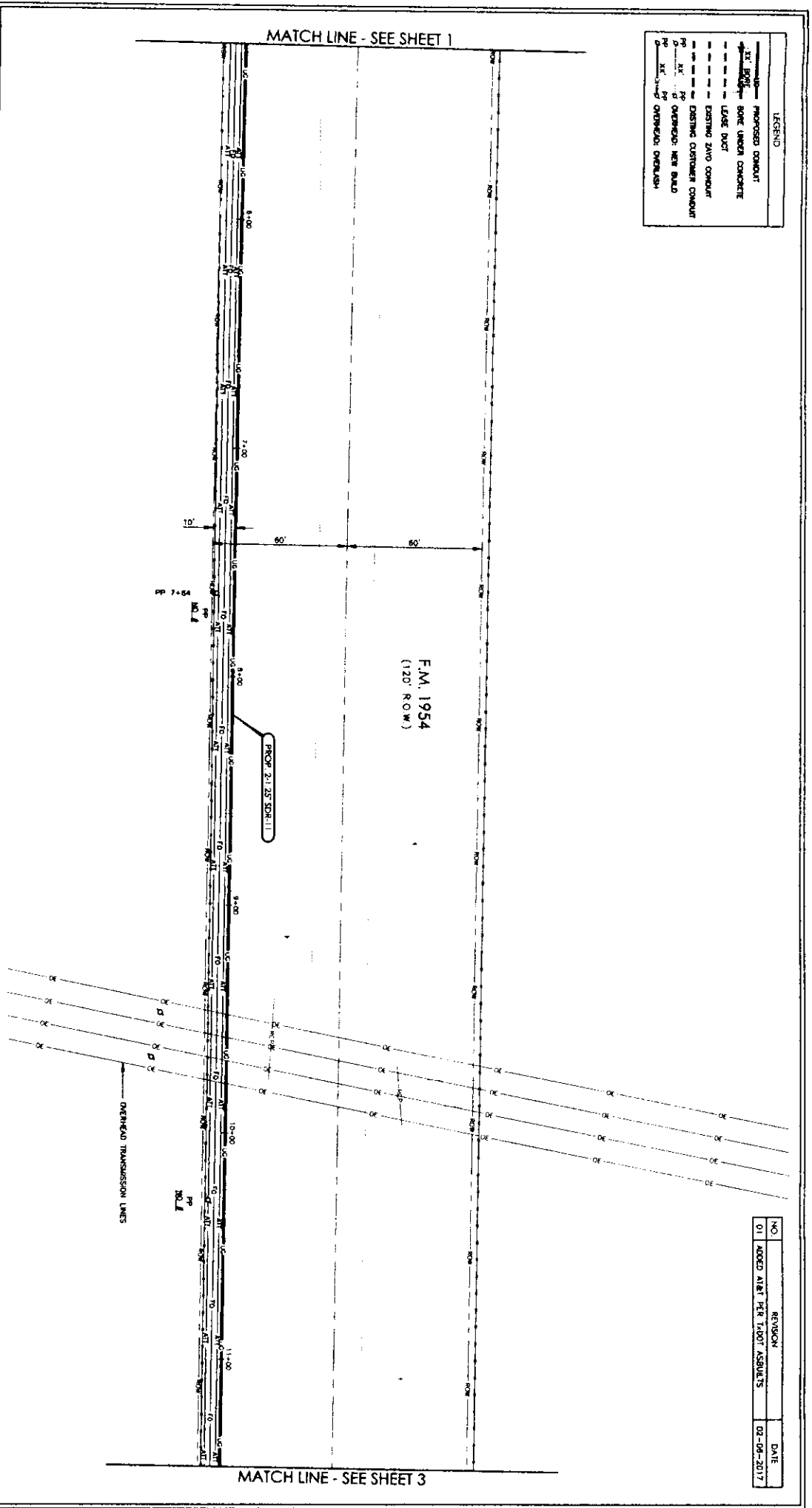
DATE: 03-04-2016

NO	REVISION	DATE
01	ADDED A&T PER T&DT ASBULTS	02-08-2017

MATCH LINE - SEE SHEET 2

LEGEND

---	PROPOSED CONDUIT
---	EXISTING ZAVO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING DUCT
---	EXISTING ZAVO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING DUCT
---	PROPOSED NEW BUILD
---	OVERHEAD OVERBRUSH



NO.	REVISION	DATE
01	ADDED ALERT PER 14007 ASSULTS	02-08-2017

PREPARED BY:

DAVID HATTON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	525'	PLACE WARE		FOC UNDERGROUND	525'
BORE & PLACE CONDUIT		PLACE 30" x 60" 4x8" W/WHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30" x 60" 4x8" W/WHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC 1/2 SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND OVERBRUSH		FOC TOTAL FOOTAGE	525'
AERIAL POLE CONTACTS		NEW BUILD			

NORTH

SHEET 2 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

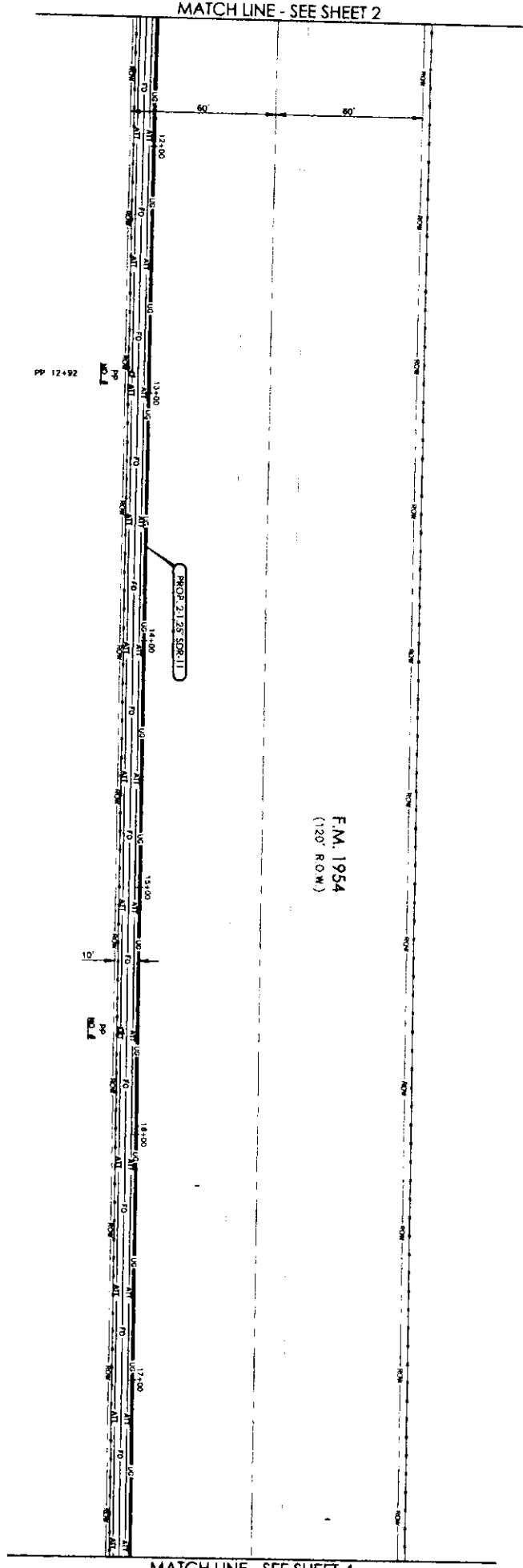
DATE: 03-04-2016

MATCH LINE - SEE SHEET 1

MATCH LINE - SEE SHEET 3

LEGEND

---	PROPOSED CONDUIT
---	BORE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING 24" CONDUIT
---	EXISTING 24" DUCT
---	EXISTING 24" OVERHEAD CONDUIT
---	EXISTING 24" OVERHEAD NEW BUILD
---	EXISTING 24" OVERHEAD OVERLASH



F.M. 1954  
(120' ROW)

PREPARED BY:

DAVID HANTON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	800'	PLACE VAULT	800'	FOC UNDERROUND	800'
BORE & PLACE CONDUIT		PLACE 30"x60"x48" HANDHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC 24" SLACK LOOP	
R & B CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & B CONCRETE PAVEMENT (SF)		AERIAL STRAND OVERLASH		FOC TOTAL FOOTING	800'
AERIAL POLE CONTACTS		AERIAL STRAND NEW BUILD			

NORTH

SHEET 3 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

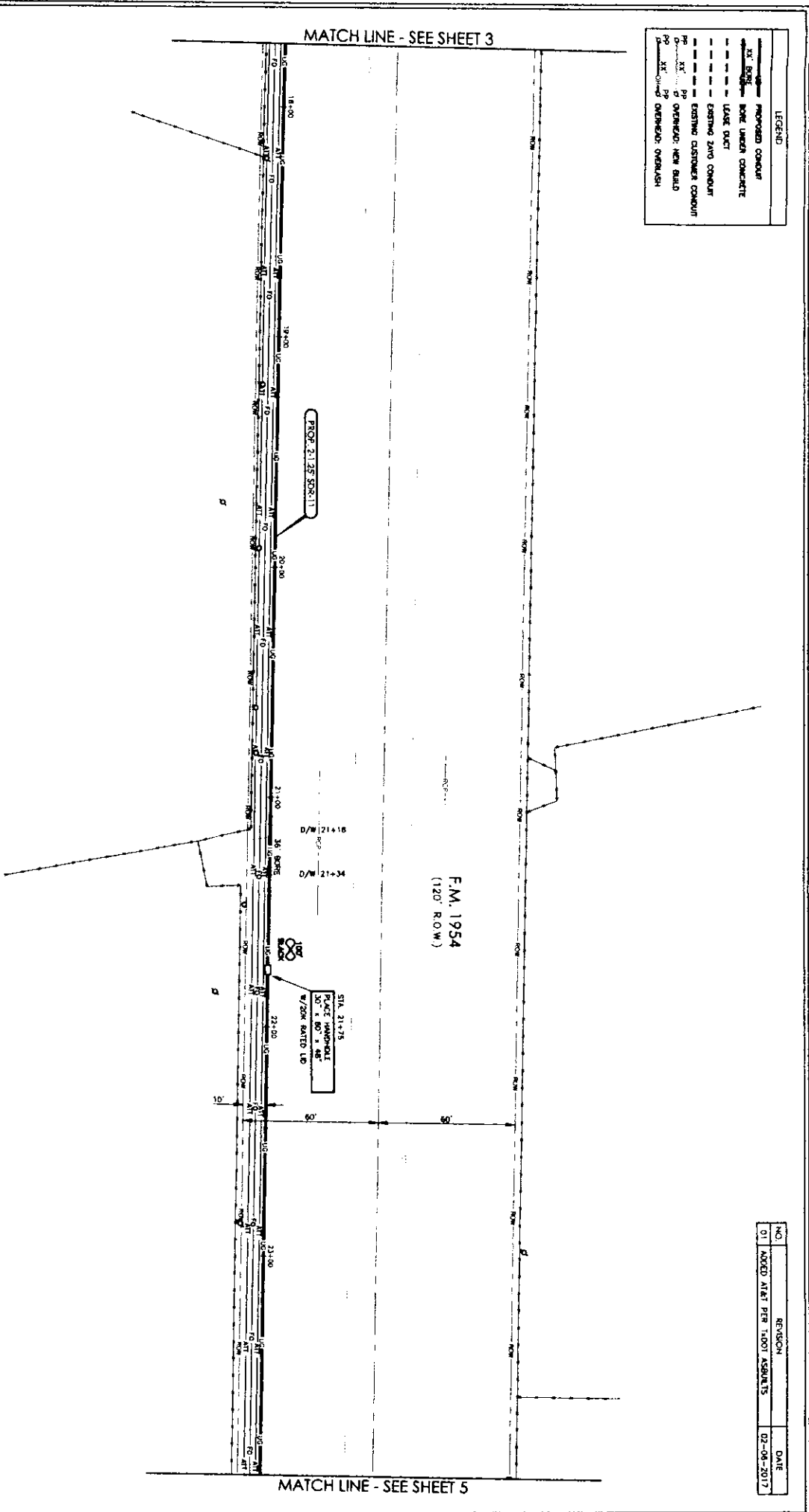
VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

NO.	REVISION	DATE
01	ADDED AREA PER 1400' ASBULTS	02-08-2017

LEGEND

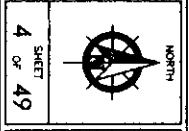
---	PROPOSED CONDUIT
---	BORE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING 24" CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	OVERHEAD: NEW BUILD
---	OVERHEAD: OVERLASH



PREPARED BY:  
  
 DWPT CONTACT:  
 DAVID HANTON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	368'	PLACE VAULT		FOC UNDERGROUND	824
BORE & PLACE CONDUIT	36'	PLACE 30"x60"x48" HANDHOLE	1	FOC INSIDE 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" HANDHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC ON SLACK LOOP	
R & R CONCRETE SPOCKMATE (S7)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	100'
R & R CONCRETE PAVEMENT (S7)		ASBFL STRAND OVERLASH		FOC TOTAL TIGHTING	724'
ASBFL POLE CONTACTS		ASBFL STRAND NEW BUILD			



PROJECT: **DA LAKE ARROWHEAD**  
 ADDRESS: 4712 FM 1954  
 CITY, STATE: ARCHER COUNTY, TEXAS  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'  
 DATE: 03-04-2016



NO.	REVISION	DATE
01	ADDED MET PER 1,000 FEET	02-08-2017

MATCH LINE - SEE SHEET 3

MATCH LINE - SEE SHEET 5

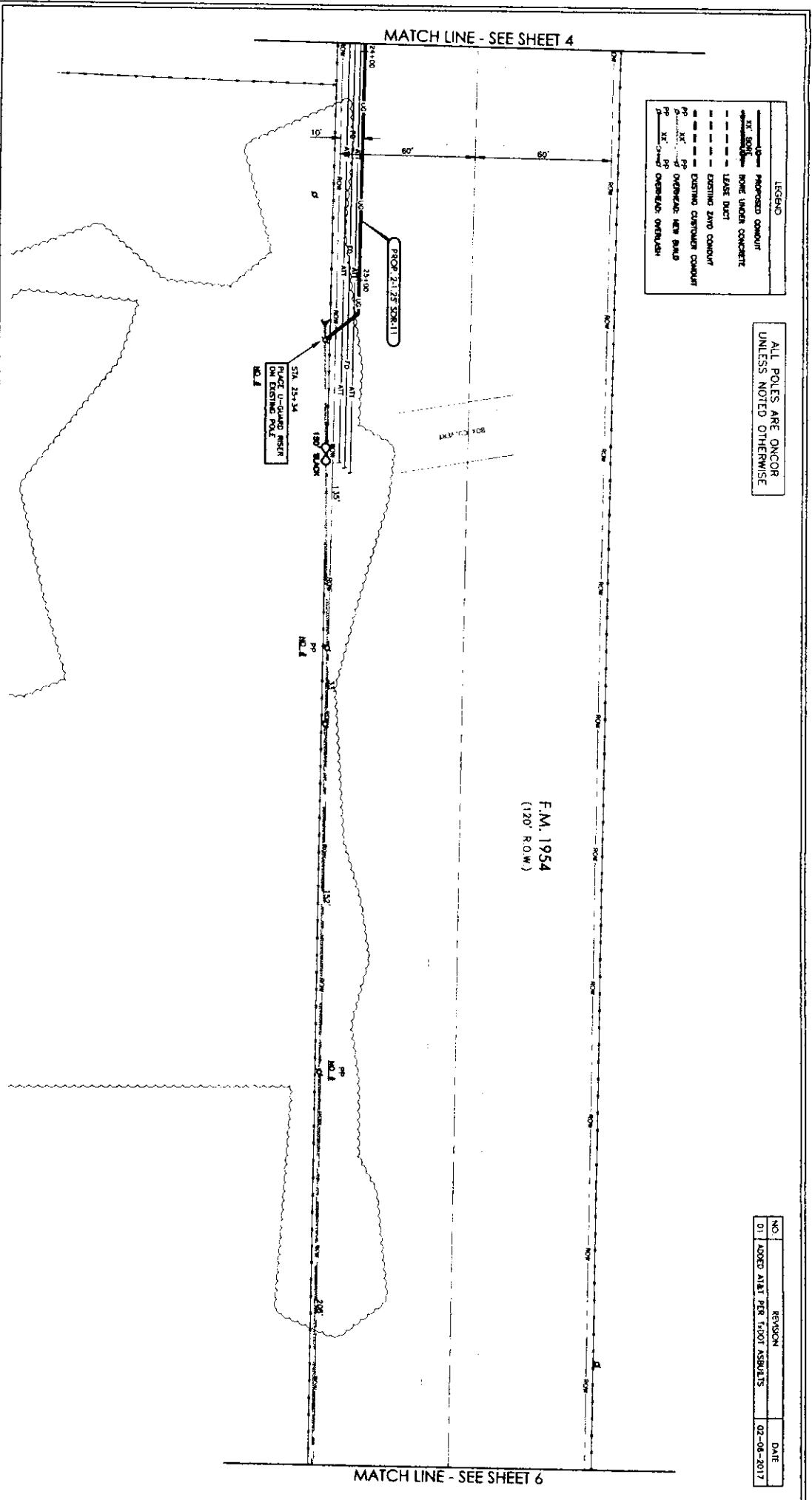


LEGEND

- PROPOSED CONDUIT
- BORE UNDER CONCRETE
- LEASE DUCT
- EXISTING 24" CONDUIT
- EXISTING 36" CONDUIT
- EXISTING 48" CONDUIT
- OVERHEAD NEW BUILD
- OVERHEAD OVERLASH

ALL POLES ARE ON COR UNLESS NOTICED OTHERWISE

NO.	REVISION	DATE
01	ADDED ALIAS PER 1500T ASSESSMENTS	02-08-2017



F.M. 1954  
(120' R.O.W.)

PREPARED BY:

D.F.W. TELECOM  
DAVID CONTACT: 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	137'	PLACE VAULT		FOC UNDERGROUND	137'
BORE & PLACE CONDUIT		PLACE 30'-40" x 48" MANHOLE		FOC REST 23' FT	23'
BORE & PLACE STEEL CASING		PLACE 30' x 48" x 48" MANHOLE		FOC OVERHEAD	527'
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD REST - 25 FT	1	FOC OH SLACK LOOP	160'
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN GUY	1	FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (S7)		AERIAL STRAND OVERLASH		FOC TOTAL FOOTAGE	839'
AERIAL POLE CONDUITS	3	AERIAL STRAND NEW BUILD	527'		

NORTH

SHEET 5 OF 49

PROJECT: DA LAKE ARROWHEAD  
 ADDRESS: 4712 FM 1954  
 CITY, STATE: ARCHER COUNTY, TEXAS  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'  
 DATE: 03-04-2016

Zayo  
GROUP

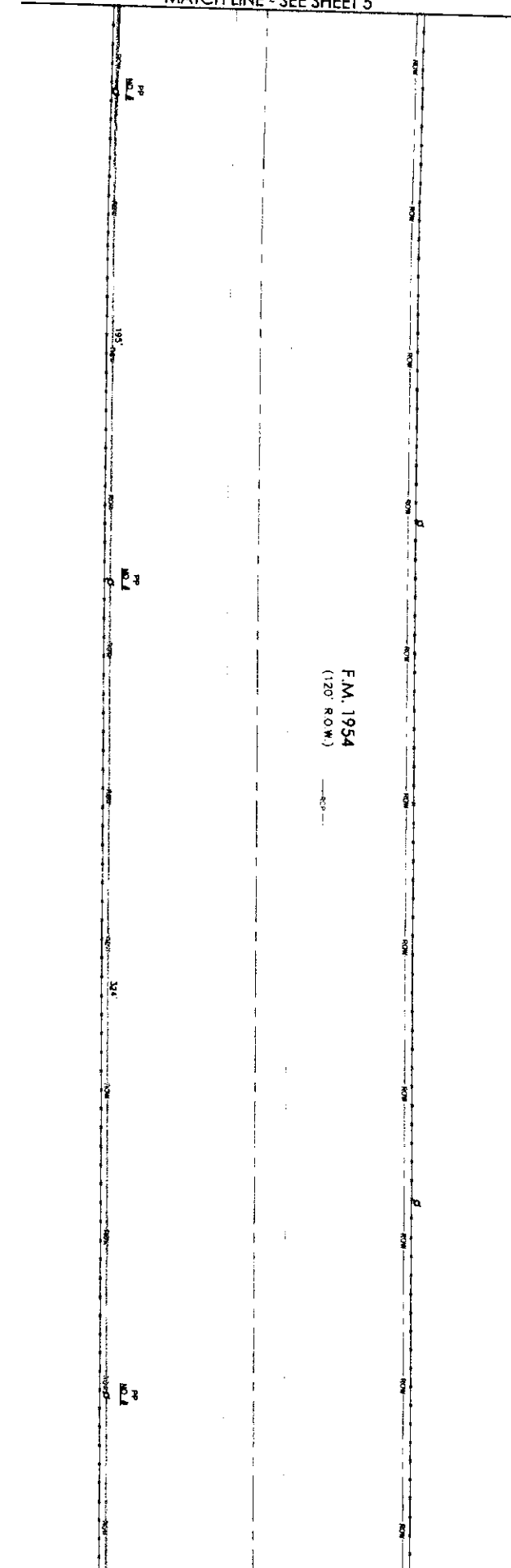
MATCH LINE - SEE SHEET 5

LEGEND

---	PROPOSED CONDUIT
---	3" BORE BORE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING 24" CONDUIT
---	EXISTING OSTEOMER CONDUIT
---	EXISTING OVERHEAD NEW BUILD
---	EXISTING OVERHEAD OVERLASH

ALL POLES ARE ONCOR UNLESS NOTED OTHERWISE

F.M. 1954  
(120' R.O.W.)



MATCH LINE - SEE SHEET 7

PREPARED BY:



DAVID HAYTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALK		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30 HOBT 48" HANDBOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30 HOBT 48" HANDBOLE		FOC OVERHEAD	519'
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC ON SLACK LOOP	
R & R CONCRETE SPOKEMAN (S7)		PLACE ANCHOR & DOWN GUY		FOC ON SLACK LOOP	
R & R CONCRETE PAVEMENT (S7)	3	AERIAL STRAND OVERLASH	519'	FOC TOTAL FOOTAGE	519'
AERIAL POLE CONTACTS		AERIAL STRAND NEW BUILD	519'		

ESTIMATED SHEET TOTALS

NORTH

6 SHEET OF 49

PROJECT: **DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016



LEGEND

---	PROPOSED CONDUIT
---	EXISTING 2"Ø CONDUIT
---	EXISTING 3"Ø CONDUIT
---	EXISTING 4"Ø CONDUIT
---	EXISTING 6"Ø CONDUIT
---	EXISTING 8"Ø CONDUIT
---	EXISTING 12"Ø CONDUIT
---	EXISTING 18"Ø CONDUIT
---	EXISTING 24"Ø CONDUIT
---	EXISTING 30"Ø CONDUIT
---	EXISTING 36"Ø CONDUIT
---	EXISTING 42"Ø CONDUIT
---	EXISTING 48"Ø CONDUIT
---	EXISTING 54"Ø CONDUIT
---	EXISTING 60"Ø CONDUIT
---	EXISTING 66"Ø CONDUIT
---	EXISTING 72"Ø CONDUIT
---	EXISTING 78"Ø CONDUIT
---	EXISTING 84"Ø CONDUIT
---	EXISTING 90"Ø CONDUIT
---	EXISTING 96"Ø CONDUIT
---	EXISTING 102"Ø CONDUIT
---	EXISTING 108"Ø CONDUIT
---	EXISTING 114"Ø CONDUIT
---	EXISTING 120"Ø CONDUIT


ALL POLES ARE ON COR  
UNLESS NOTED OTHERWISE

F.M. 1954  
(120' ROW)

MATCH LINE - SEE SHEET 6

MATCH LINE - SEE SHEET 8

Prepared by:




DRPT CONTACT:  
DAVID HATTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALL		FOC UNDERGROUND	
BONE & PLACE CONDUIT		PLACE 30'x60'x48" HANDHOLE		FOC RISER 25 FT	
BONE & PLACE STEEL CASING		PLACE 30'x60'x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIREWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC U6 SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND OVERLASH		FOC TOTAL FOOTING	
AERIAL POLE CONTACTS	2	AERIAL STRAND NEW BUILD	828'		828'

ESTIMATED SHEET TOTALS

NORTH



SHEET  
OF  
49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016



LEGEND

---	PROPOSED CONDUIT
---	EXISTING CONCRETE
---	LEAVE EXIST
---	EXISTING 2" RIGID CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING OVERHEAD NEW BUILD
---	OVERHEAD OVERLASH


ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

F.M. 1954  
(120' ROW)

MATCH LINE - SEE SHEET 7

MATCH LINE - SEE SHEET 9

PREPARED BY:




DAVID HANSON 972.679.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE VAULT		FOC UNDERGROUND	
BONE & PLACE CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC INSER 25 FT	
BONE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN GUY		FOC UP SLACK LOOP	
R & R CONCRETE PAVEMENT (S7)	2	ALTERN STRAND OVERLASH		FOC TOTAL FOOTING	
REPAIR POLE CONTACTS		ALTERN STRAND NEW BUILD	642'		642'

ESTIMATED SHEET TOTALS

NORTH



SHEET 8 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

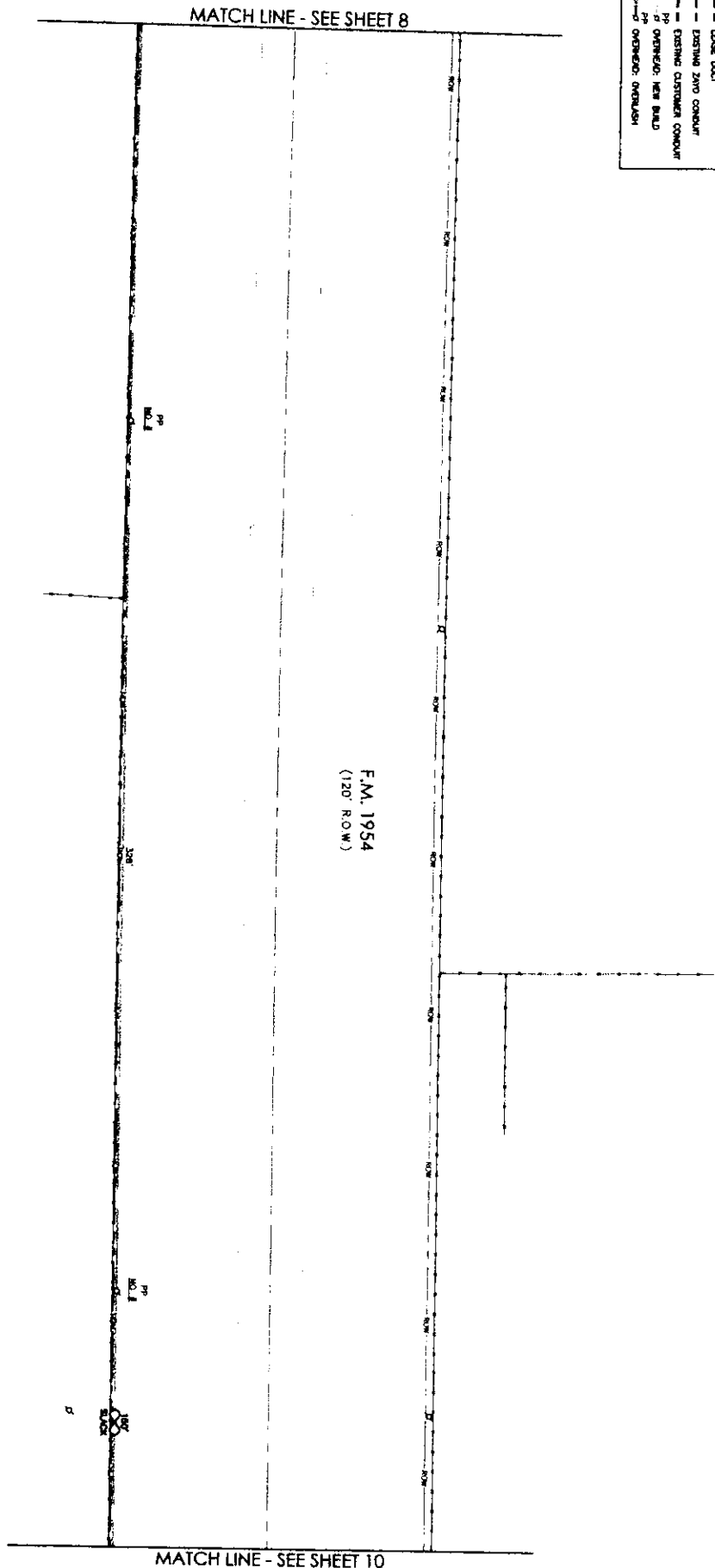


Zayo  
GROUP

LEGEND

---	PROPOSED CONDUIT
---	EXISTING ZAND CONDUIT
---	EXISTING OVERHEAD WIRE BUILD
---	EXISTING OVERHEAD OVERLASH
---	EXISTING OVERHEAD CONDUIT
---	EXISTING ZAND CONDUIT
---	LEAD DUCT
---	EXISTING OVERHEAD CONDUIT
---	EXISTING OVERHEAD WIRE BUILD
---	EXISTING OVERHEAD OVERLASH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE



PREPARED BY:

D.W. TELECOM  
DAVID HALLON 972.270.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALL		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30'x30'x48" MANHOLE		FOC OVER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30'x30'x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SPOCKWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND OVERLASH		FOC TOTAL FOOTING	
AERIAL POLE CONDUITS	2	AERIAL STRAND NEW BUILD	328'		478'

NORTH

9 SHEET OF 49

PROJECT: **DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

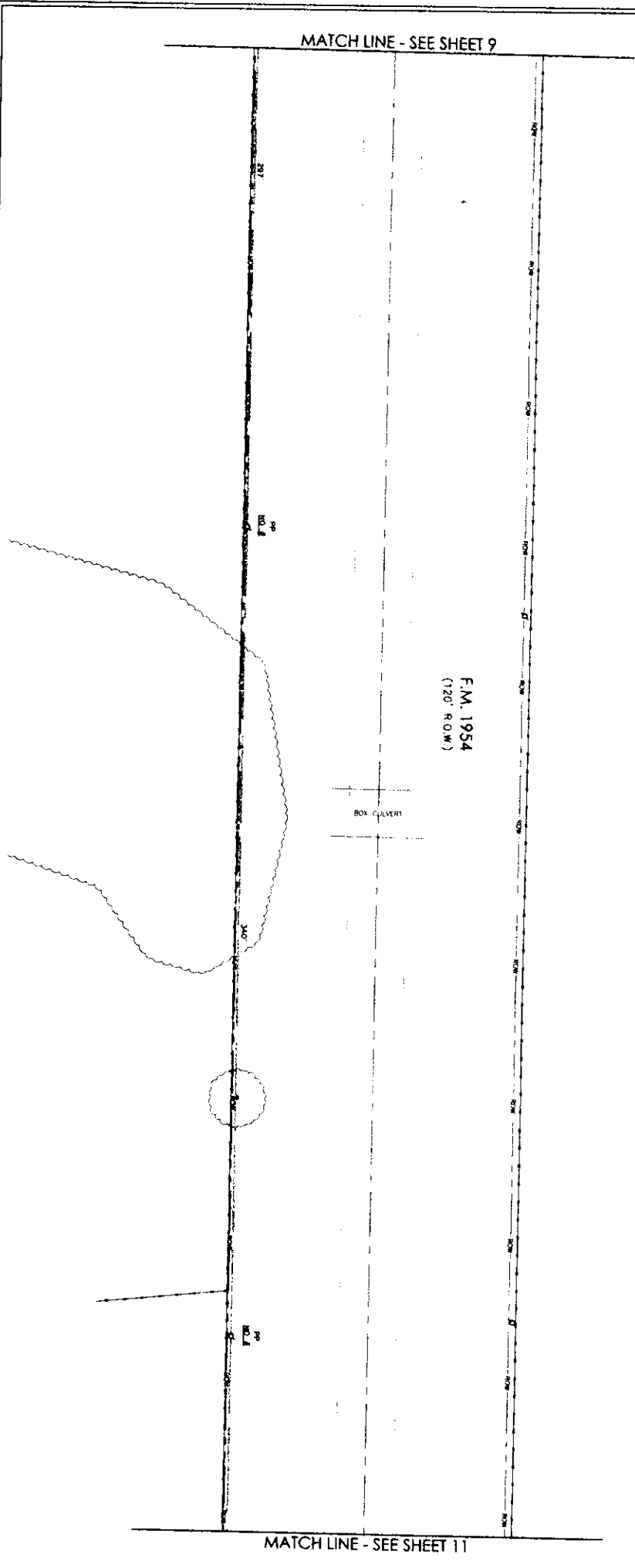
VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

**Zayo**  
GROUP

LEGEND	
---	PROPOSED CONDUIT
---	BORE UNDER CONCRETE
---	LEAK DUCT
---	EXISTING ZAVO CONDUIT
---	EXISTING CUSTOMER CONDUIT
PP	OVERHEAD NEW BUILD
PP	OVERHEAD OVERLASH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE



PREPARED BY:

DAVID HANTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE VALVE		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30" x 30" x 48" MANHOLE		FOC MISC 25 FT	
BORE & PLACE STEEL CASING		PLACE 30" x 30" x 48" MANHOLE		FOC OVERHEAD	637
BUILD THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (S7)	2	AERIAL STRAND OVERLASH		FOC TOTAL FOOTAGE	637
AERIAL POLE CONTACTS		AERIAL STRAND NEW BUILD	637		

10 of 49 SHEETS

PROJECT: DA LAKE ARROWHEAD  
 ADDRESS: 4712 FM 1954  
 CITY, STATE: ARCHER COUNTY, TEXAS  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'  
 DATE: 03-04-2016

LEGEND	
	PROPOSED CONDUIT
	BORE UNDER CONDUIT
	LEAVE DUCT
	EXISTING DUCT CONDUIT
	EXISTING CUSTOMER CONDUIT
	NEW ROAD
	OVERHEAD OVERLASH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

F.M. 1954  
(120' ROW)

MATCH LINE - SEE SHEET 10

MATCH LINE - SEE SHEET 12

PREPARED BY:

DAVID HANTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALL		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30"X60"X48" MANHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"X60"X48" MANHOLE		FOC OVERHEAD	585'
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & B CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & B CONCRETE SIDEWALK (S7)	2	ALTERN STRUNG OVERLASH		FOC TOTAL FOOTAGE	585'
ALTERN POLE CONTACTS		ALTERN STRUNG NEW BUILD			

NORTH

SHEET 11 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

Zayo  
R O U P

MATCH LINE - SEE SHEET 12

LEGEND

- PROPOSED CONDUIT
- BORE BONE UNDER CONCRETE
- LEASE DUCT
- EXISTING JAND CONDUIT
- EXISTING CUSTOMER CONDUIT
- OVERHEAD: NEW BILD
- OVERHEAD: OVERLASH


ALL POLES ARE ON COR  
UNLESS NOTED OTHERWISE

F.M. 1954  
(120' R.O.W.)

THORMAN ROAD

MATCH LINE - SEE SHEET 14


PREPARED BY:



DAVID HATTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE VAULT		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	395
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC OH SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)	2	AERIAL STRAND OVERLASH		FOC TOTAL TOWERING	395
AERIAL POLE CONTACTS		AERIAL STRAND NEW BILD	395		

NORTH



13  
SHEET  
OF  
49

PROJECT: **DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016



Zayo  
GROUP

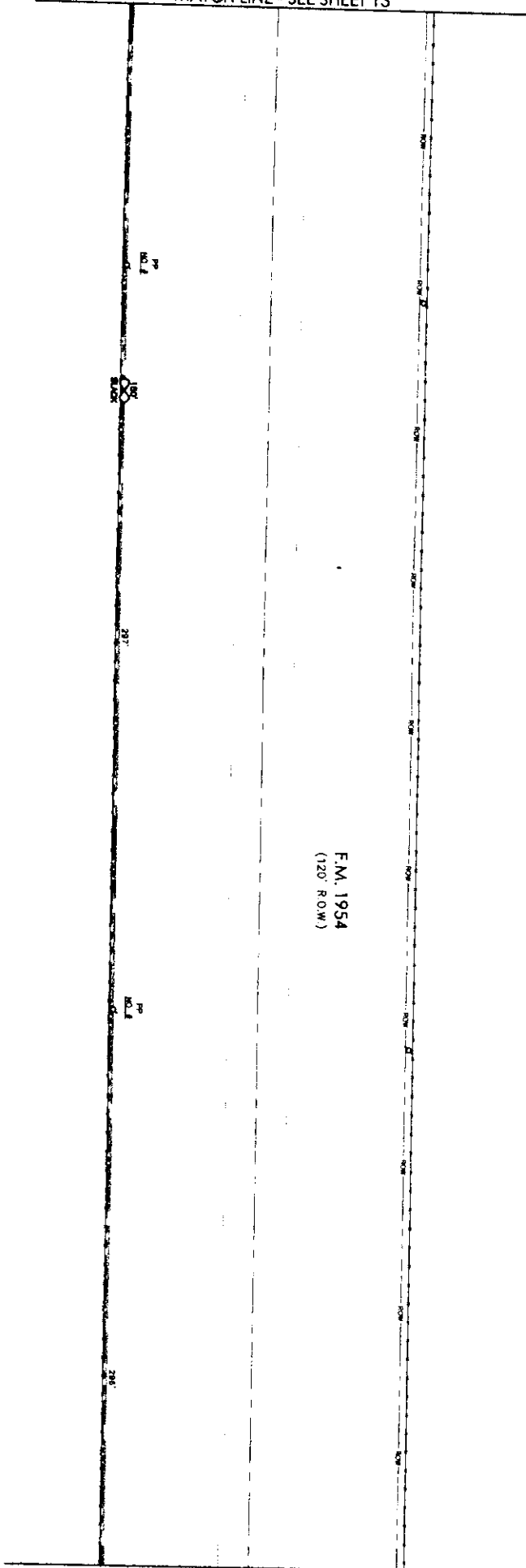


LEGEND

---	PROPOSED CONDUIT
---	EXISTING UNDER CONCRETE
---	LEASE DUCT
---	EXISTING 2" DUCT
---	EXISTING 2" DUCT
---	EXISTING OVERHEAD CONDUIT
---	EXISTING OVERHEAD CONDUIT
---	EXISTING OVERHEAD CONDUIT
---	EXISTING OVERHEAD CONDUIT
---	EXISTING OVERHEAD CONDUIT

ALL POLES ARE ON CORNER UNLESS NOTED OTHERWISE

MATCH LINE - SEE SHEET 13



F.M. 1954  
(120' R.O.W.)

MATCH LINE - SEE SHEET 15


PREPARED BY:



DAVID HANTON 972.970.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALL		FOC UNDERGROUND	
BONE & PLACE CONDUIT		PLACE 30'x60'x48" HANDHOLE		FOC RISER 25 FT	393'
BONE & PLACE STEEL CASING		PLACE 30'x60'x48" HANDHOLE		FOC OVERHEAD	150'
PULL THROUGH EXISTING CONDUIT		PLACE U-DUARD RISER - 25 FT		FOC ON SLACK LOOP	
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN GUY		FOC US SLACK LOOP	
R & R CONCRETE PARAPET (S7)	2	AERIAL STRAND OVERLASH		FOC TOTAL FOOTING	743'
AERIAL POLE CONDUITS		AERIAL STRAND NEW BUILD	393'		

NORTH



14 of 49 SHEETS

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016



Zayo GROUP

LEGEND

---	IMPROVED CONCRETE
---	BORE UNDER CONCRETE
---	LEAK DUCT
---	EXISTING ZERO CONDUIT
---	EXISTING DISTURBED CONDUIT
---	EXISTING DISTURBED NEW BUILD
---	OVERHEAD OVERLAP


ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

MATCH LINE - SEE SHEET 14

F.M. 1954  
(120' R.O.W.)

MATCH LINE - SEE SHEET 16

PREPARED BY:



DAVID HANTON 972.670.2113

DISCREPTION	QUANTITY	DISCREPTION	QUANTITY	DISCREPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE VALVE		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30" 90° 1/2" HANDHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30" 90° 1/2" HANDHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GLAND RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC UP SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)	2	AERIAL STRAND OVERLAP		FOC TOTAL FOOTING	
AERIAL POLE CONTACTS		AERIAL STRAND NEW BUILD	802		802

ESTIMATED SHEET TOTALS

NORTH



SHEET 15 of 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016



Zayo GROUP

LEGEND

---	PROPOSED CONDUIT
---	EXISTING CONDUIT
---	EXISTING ZAYO CONDUIT
---	EXISTING OVERHEAD NEW BUILD
---	EXISTING OVERHEAD OVERLASH


ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

F.M. 1954  
(120' ROW)

MATCH LINE - SEE SHEET 15

MATCH LINE - SEE SHEET 17

PREPARED BY:




DAVID HATTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		SPACE WALL		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PARAPET (SF)		AERIAL STRAND OVERLASH		FOC TOTAL FOOTING	
AERIAL POLE CONTACTS	2	AERIAL STRAND NEW BUILD	609'		609'

ESTIMATED SHEET TOTALS

NORTH



SHEET 16 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016



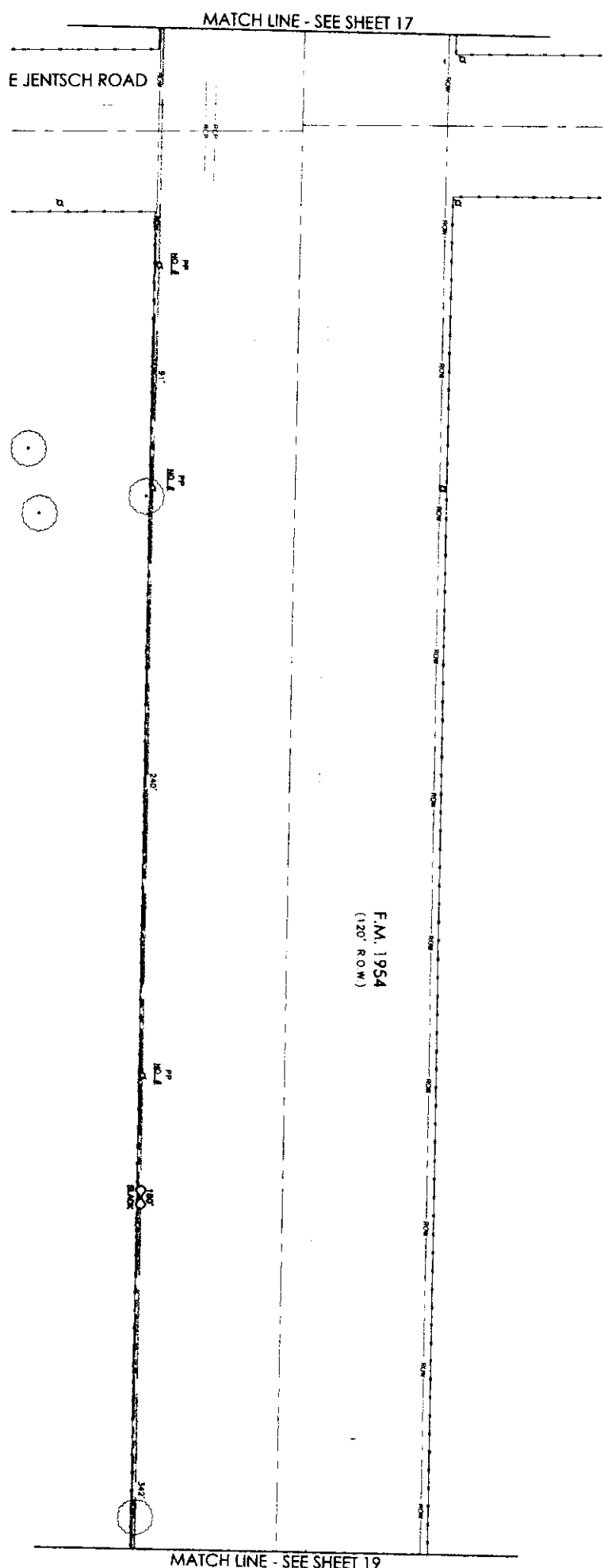
Zayo  
GROUP



LEGEND

	PROPOSED CONDUIT
	POLE UNDER CONCRETE
	LARGE DUCT
	EXISTING ZAYO CONDUIT
	EXISTING CUSTOMER CONDUIT
	OVERHEAD - NEW BUILD
	OVERHEAD - OVERLAIN

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE



PREPARED BY:

DAVID HATHORN 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALK		FOC UNDERGROUND	
BONE & PLACE CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC RISER 25 FT	
BONE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & E CONCRETE SPOCKWALL (S7)		PLACE ANCHOR & DOWN GUY		FOC UP SLACK LOOP	
R & E CONCRETE PAVEMENT (S7)		AERIAL STRAND OVERLASH		FOC TOTAL TOWER	
AERIAL POLE CONTACTS	3	AERIAL STRAND NEW BUILD	873'		823'

NORTH

SHEET 18 OF 49

PROJECT DA LAKE ARROWHEAD

ADDRESS 4712 FM 1954

CITY, STATE ARCHER COUNTY, TEXAS

HORIZONTAL SCALE 1" = 40'

VERTICAL SCALE 1" = 10'

DATE 03-04-2016

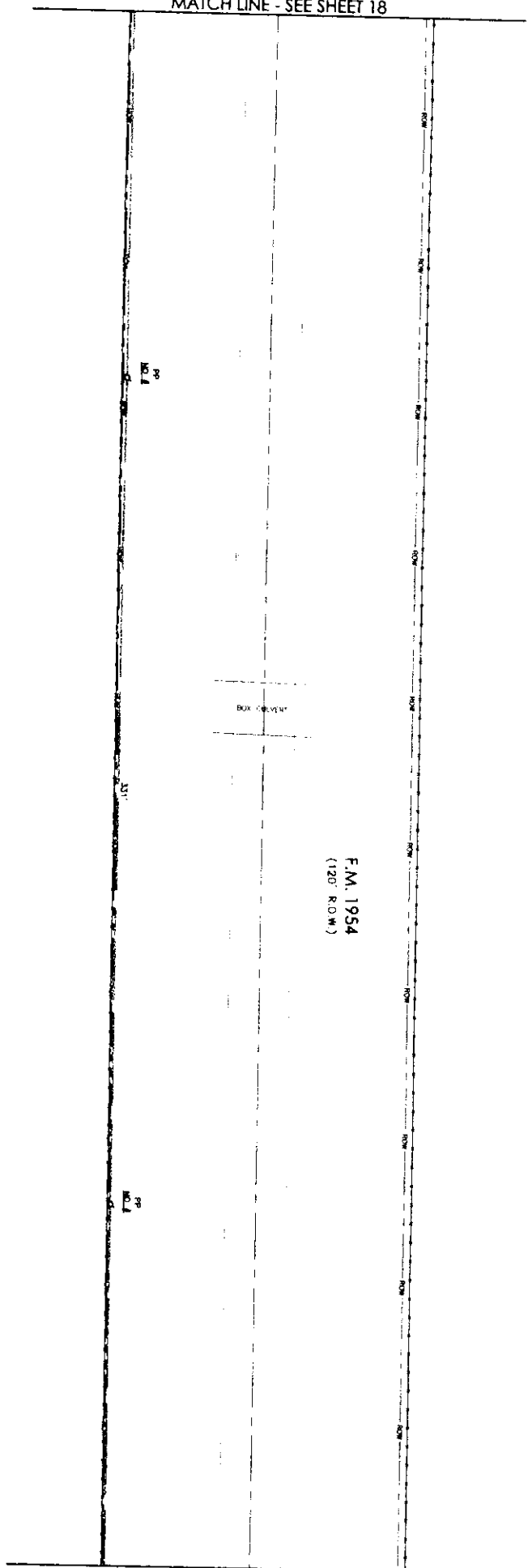
Zayo GROUP

LEGEND

---	PROPOSED CONDUIT
---	BORE UNDER CONCRETE
---	LEAVE DUCT
---	EXISTING ZAYO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING OVERHEAD - NEW BUILD
---	EXISTING OVERHEAD - OVERLASH

ALL POLES ARE ON COR  
UNLESS NOTED OTHERWISE

MATCH LINE - SEE SHEET 18



F.M. 1954  
(120' R.O.W.)

MATCH LINE - SEE SHEET 20

Prepared by:

DEPT. CONTRACT  
DAVID HATHORN 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE VALVE		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	331'
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN GUY		FOC UP SLACK LOOP	
R & R CONCRETE PAVEMENT (S7)	2	ASBL. STAND OVERLASH		FOC TOTAL FOOTING	331'
ASBL. POLE CONTACTS		ASBL. STAND NEW BUILD	331'		

ESTIMATED SHEET TOTALS

NORTH

SHEET 19 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

Zayo  
GROUP

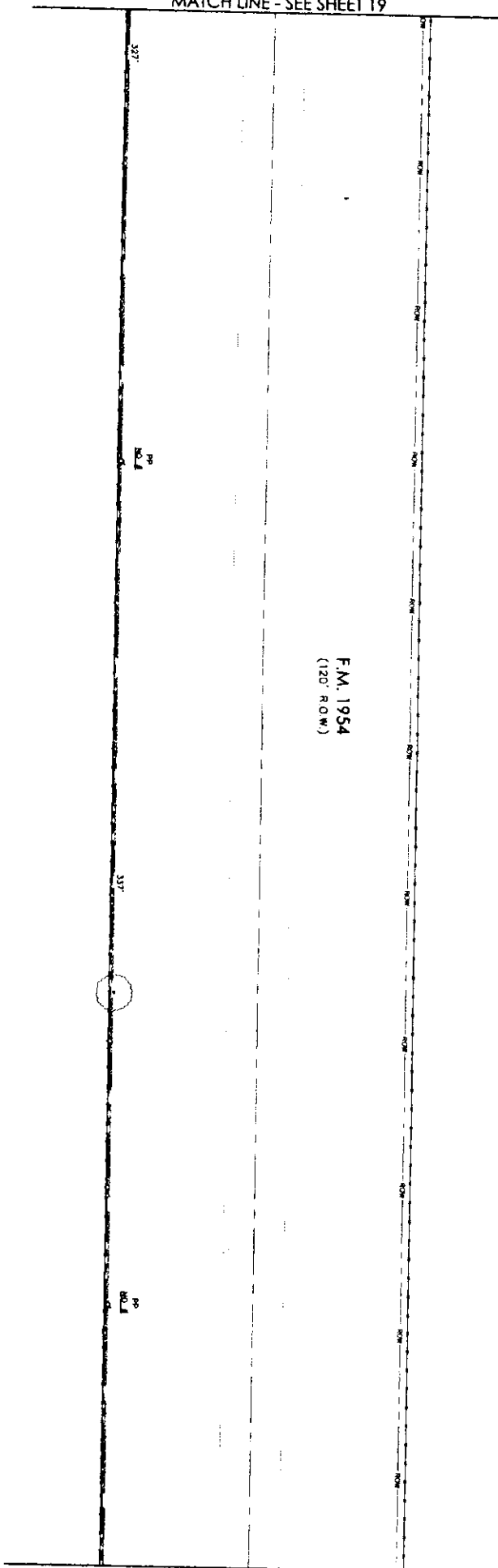
LEGEND

- PROPOSED CONDUIT
- BORE UNDER CONCRETE
- LEASE DUCT
- EXISTING ZAYO CONDUIT
- EXISTING CUSTOMER CONDUIT
- OVERHEAD - NEW BUILD
- OVERHEAD - OVERLASH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

MATCH LINE - SEE SHEET 19

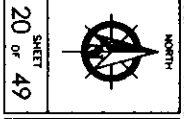
F.M. 1954  
(120' R.O.W.)



MATCH LINE - SEE SHEET 21

PREPARED BY:  
**D W TELECOM**  
DWPRT CONTRACT  
DAVID HANSON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE VAULT		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 50 X60 X48 W/PIPE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 50 X60 X48 W/PIPE		FOC OVERHEAD	664
PULL THROUGH EXISTING CONDUIT		PLACE U-GLAND RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC US SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)	2	AERIAL STRAND OVERLASH		FOC TOTAL FOOTAGE	664
AERIAL POLE CONTACTS		AERIAL STRAND NEW BUILD	664		



PROJECT: **DA LAKE ARROWHEAD**  
 ADDRESS: 4712 FM 1954  
 CITY, STATE: ARCHER COUNTY, TEXAS  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'  
 DATE: 03-04-2016

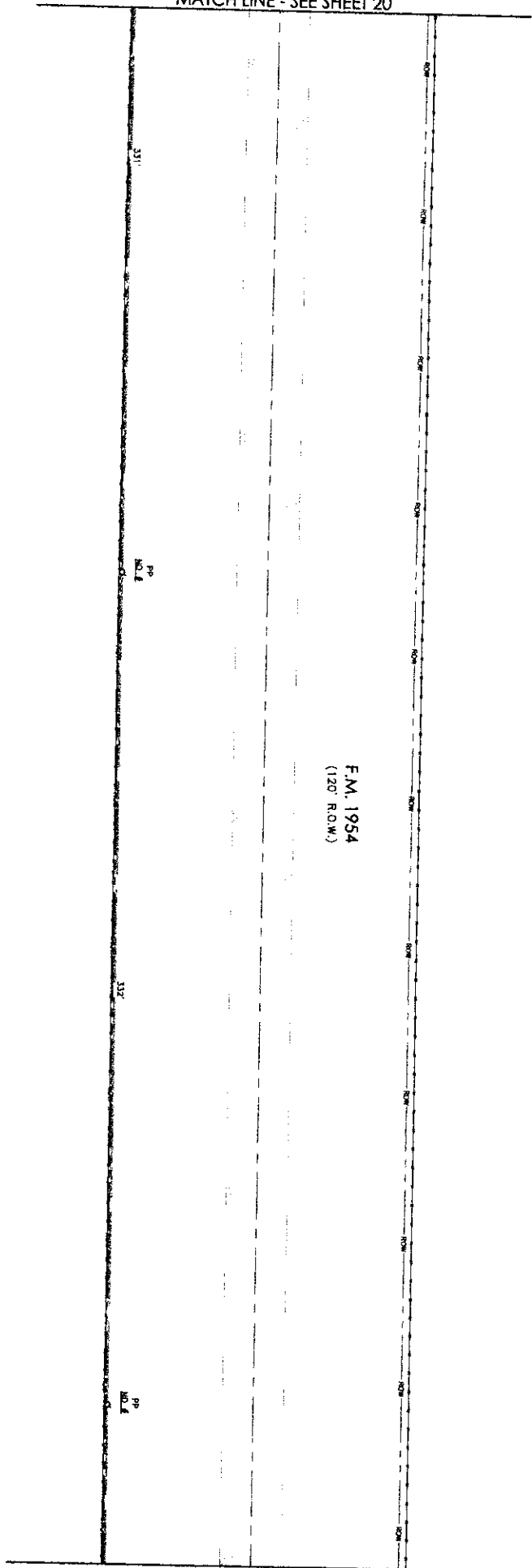


LEGEND

---X---	PROPOSED CONDUIT
---X---	BONE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING ZANO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING OVERHEAD NEW BUILD
---	EXISTING OVERHEAD OVERBRUSH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

MATCH LINE - SEE SHEET 20



F.M. 1954  
(120' R.O.W.)

MATCH LINE - SEE SHEET 22

PREPARED BY:

DAVID HANTON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALL		FOC UNDERGROUND	
BONE & PLACE CONDUIT		PLACE 30'x60'x48" MANHOLE		FOC RISER 25 FT	
BONE & PLACE STEEL CASING		PLACE 30'x60'x48" MANHOLE		FOC OVERHEAD	
FULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER -- 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND OVERBRUSH		FOC TOTAL FOOTING	
AERIAL POLE CONDUITS	2	AERIAL STRAND NEW BUILD	663'		

NORTH

SHEET 21 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

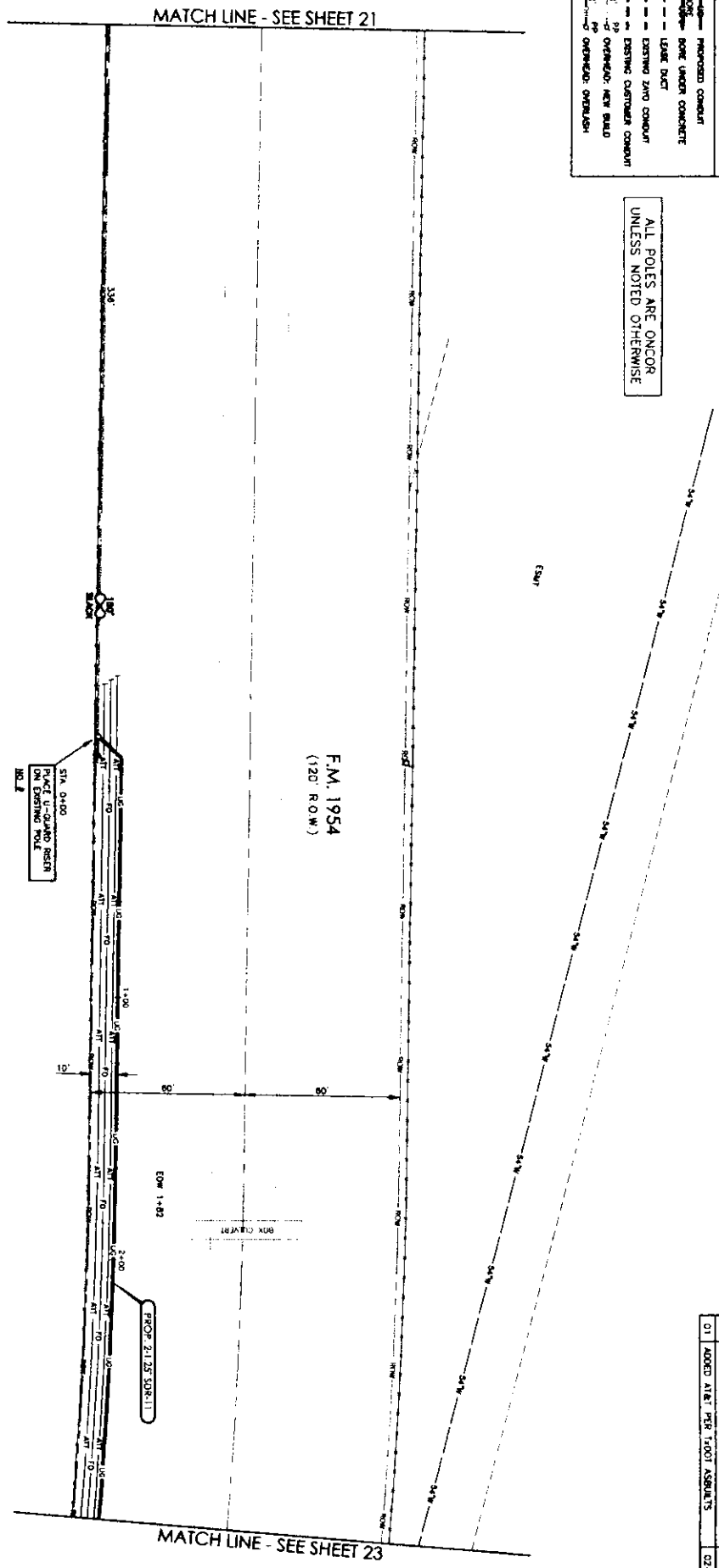
VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016



LEGEND	
---	PROPOSED CONDUIT
---	POLE UNDER CONCRETE
---	LEAVE DUCT
---	EXISTING ZAMB CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING NEW BUILD
---	OVERHEAD - OVERLASH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE



NO	REVISION	DATE
01	ADDED ALERT PER TPO'S ASSESSMENTS	02-08-2017

PREPARED BY:

POLE CONTACT:  
DAVID HAITON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	300	PLACE WALK	300	FOC UNDERGROUND	300
BONE & PLACE CONDUIT	300	PLACE 30"x60" 148" HANDBOLE	25	FOC RISER 25 FT	25
BONE & PLACE STEEL CASING	336	PLACE 30"x60" 148" HANDBOLE	336	FOC OVERHEAD	336
PULL THROUGH EXISTING CONDUIT	1	PLACE U-GUARD RISER - 25 FT	1	FOC ON SLACK LOOP	150
R & R CONCRETE SPOUTWALL (SR)	1	PLACE ANCHOR & DOWN GUY	1	FOC UG SLACK LOOP	1
R & R CONCRETE PAVEMENT (SR)	1	AERIAL STRAND OVERLASH	336	FOC TOTAL FOOTING	811
AERIAL POLE CONTACTS	1	AERIAL STRAND NEW BOND	336		

NORTH

22 SHEET OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

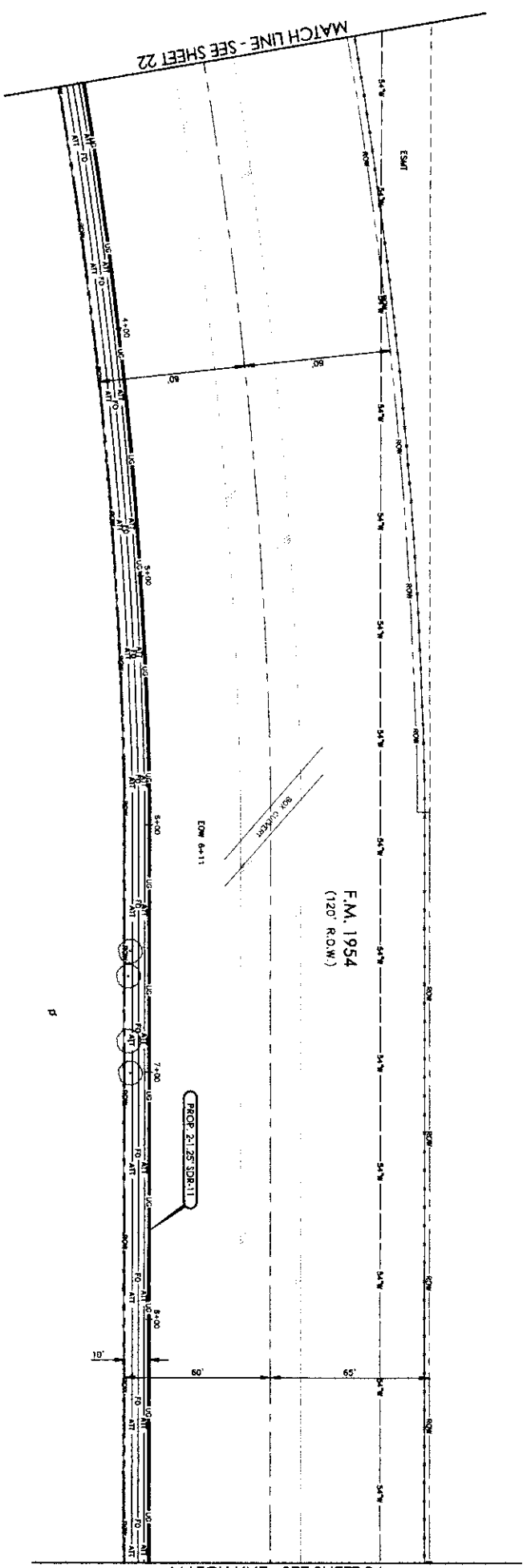
CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

LEGEND	
---	PROPOSED CONDUIT
---	BONE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING ZAYO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	OVERHEAD: NEW BUILD
---	OVERHEAD: OVERLASH



PREPARED BY:

DPW CONTACT:  
DAVID HATHORN 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	600'	PLACE WALL T	600'	FOC: UNDERGROUND	600'
BORE & PLACE CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC: RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC: OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC: ON SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC: UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND: OVERLASH		FOC: TOTAL FOOTING	
AERIAL POLE CONTACTS		AERIAL STRAND: NEW BUILD			

ESTIMATED SHEET TOTALS

23 OF 49 SHEETS

PROJECT: **DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

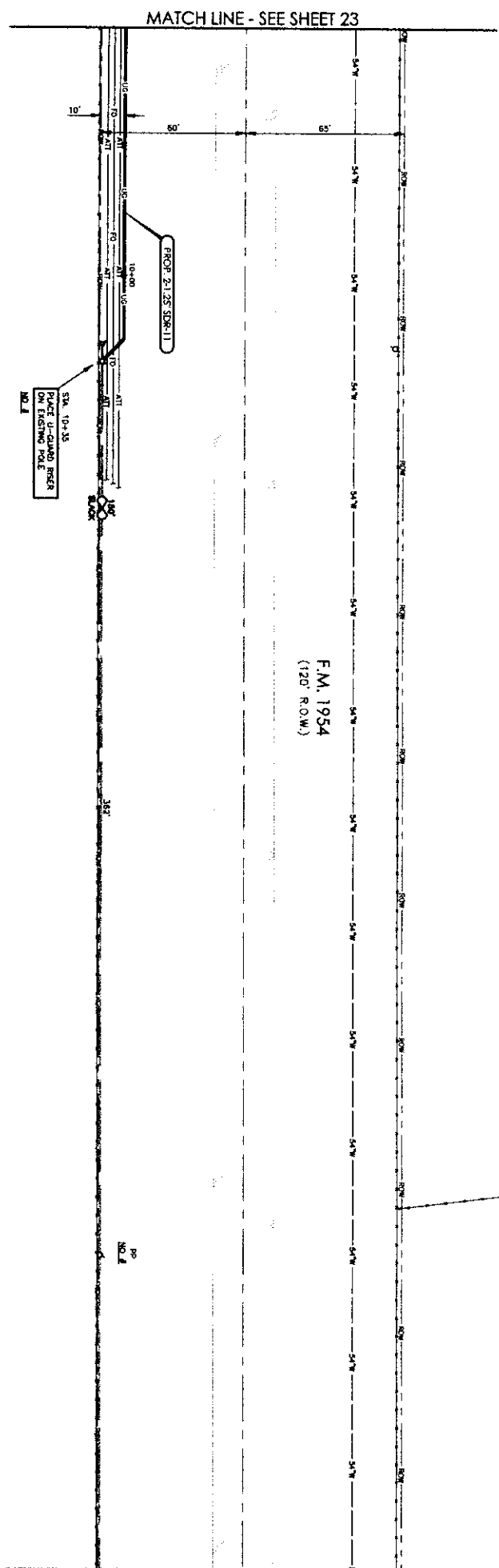
DATE: 03-04-2016

NO.	REVISION	DATE
01	ADDED A&E PER T&D ASBUILTS	02-08-2017

ALL POLES ARE ON COR  
UNLESS NOTED OTHERWISE

LEGEND

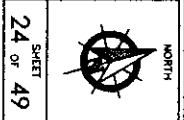
---	PROPOSED CONDUIT
---	BORE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING ZAWO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	OVERHEAD: NEW BUILD
---	OVERHEAD: OVERLASH



PREPARED BY:  
**D W TELECOM**  
DAVID HANTON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	135'	PLACE WALK	135'	FOC UNDERGROUND	135'
BORE & PLACE CONDUIT		PLACE 30"x60"x48" HANDHOLE	25	FOC RISER 25 FT	25
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" HANDHOLE	362	FOC OVERHEAD	362
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT	1	FOC ON SLACK LOOP	150'
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN CUT	1	FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND OVERLASH	362'	FOC TOTAL FOOTING	672'
AERIAL POLE COMPACTS	2	AERIAL STRAND NEW BUILD	362'		



PROJECT: **DA LAKE ARROWHEAD**  
 ADDRESS: 4712 FM 1954  
 CITY, STATE: ARCHER COUNTY, TEXAS  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'  
 DATE: 03-04-2016

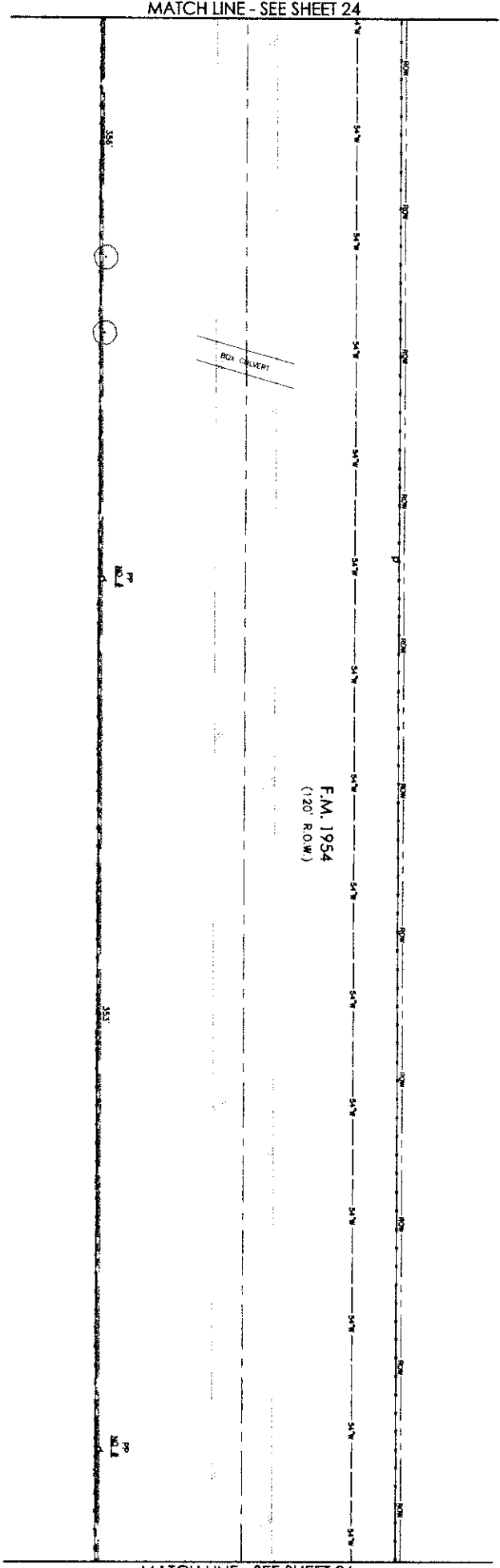


NO.	REVISION	DATE
01	ADDED A121 PER 1200T ASSEMBLYS	02-06-2017

LEGEND

---	PROMISED CONDUIT
---	BOX UNDER CONCRETE
---	LEASE DUCT
---	EXISTING 2400 CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	OVERHEAD: NEW BUILD
---	OVERHEAD: OVERLASH

ALL POLES ARE ON/COOR  
UNLESS NOTED OTHERWISE



F.M. 1954  
(120' R.O.W.)

PREPARED BY:

DAVID HANTON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALL		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30'x60'x48" MANHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30'x60'x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND OVERLASH		FOC TOTAL FOOTING	
AERIAL POLE CONDUITS	2	AERIAL STRAND NEW BUILD	709'		

NORTH

25  
OF  
49

PROJECT: **DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

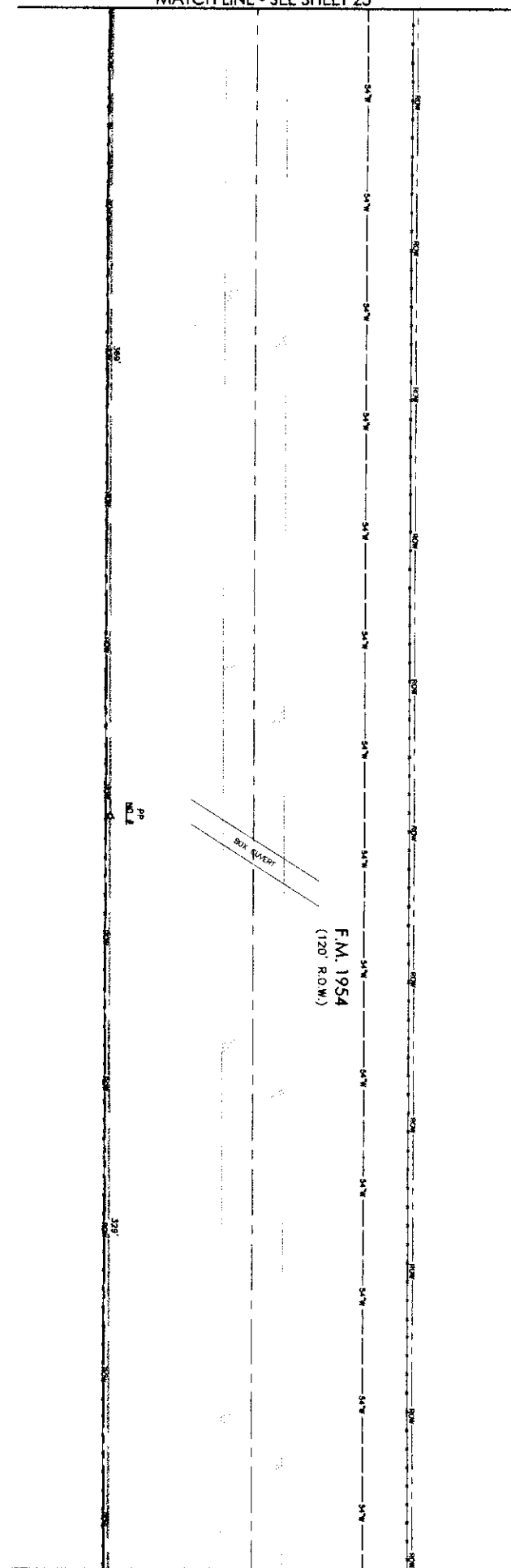
DATE: 03-04-2016

© P A O U P

LEGEND	
---	PROPOSED CONDUIT
---	BONE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING 24" CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING OVERHEAD: NEW BUILD
---	EXISTING OVERHEAD: OVERLASH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

MATCH LINE - SEE SHEET 25



MATCH LINE - SEE SHEET 27

PREPARED BY:

D'W TELECOM

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALL		FOC UNDERGROUND	
BONE & PLACE CONDUIT		PLACE 30'x60'x48" MANHOLE		FOC RISER 25 FT	
BONE & PLACE STEEL CASING		PLACE 30'x60'x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE 11'-GUARD INSET - 25 FT		FOC OW SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND, OVERLASH		FOC TOTAL FOOTAGE	888'
AERIAL POLE CONTACTS	1	AERIAL STRAND, NEW BUILD	888'		

NORTH

SHEET 26 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

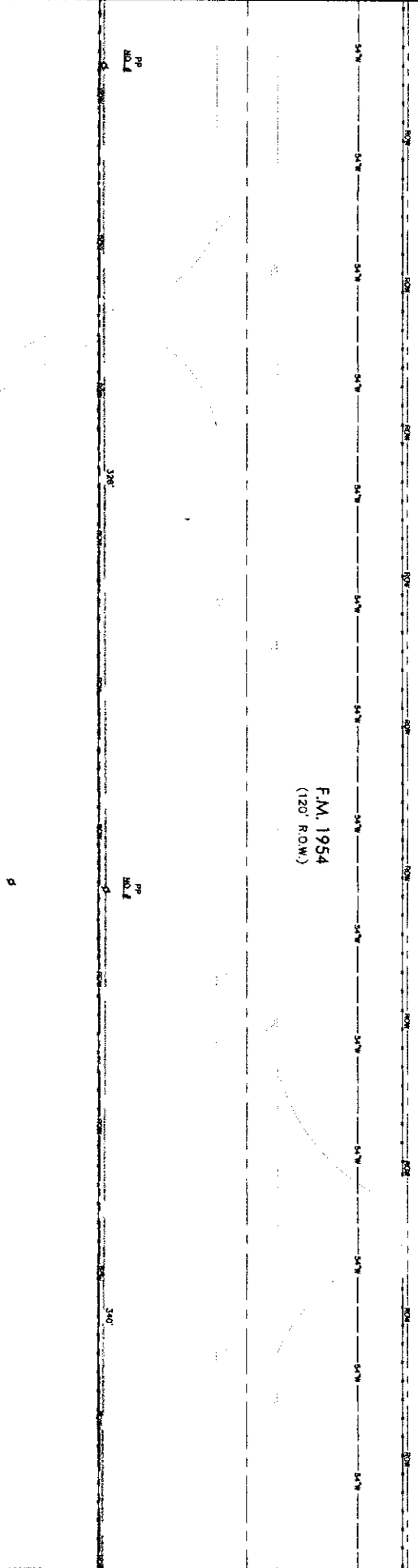
DATE: 03-04-2016

Zayo GROUP

LEGEND	
---	PROPOSED CONDUIT
---	BONE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING ZAYO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING OVERHEAD: NEW BUILD
---	EXISTING OVERHEAD: OVERLASH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

MATCH LINE - SEE SHEET 26



F.M. 1954  
(120' ROW)

PREPARED BY:

D.W. TELECOM  
DPT CONTACT: DAVID HANTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE VAULT		FOC UNDERGROUND	
BONE & PLACE CONDUIT		PLACE 30" R60"x48" MANHOLE		FOC RISER 25 FT	
BONE & PLACE STEEL CASING		PLACE 30" R60"x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD INSER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)	2	AERIAL STRAND: OVERLASH		FOC TOTAL FOOTING	666'
AERIAL POLE CONDUITS		AERIAL STRAND: NEW BUILD			

ESTIMATED SHEET TOTALS



27  
OF  
49  
SHEET

PROJECT: **DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954  
CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'  
VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016



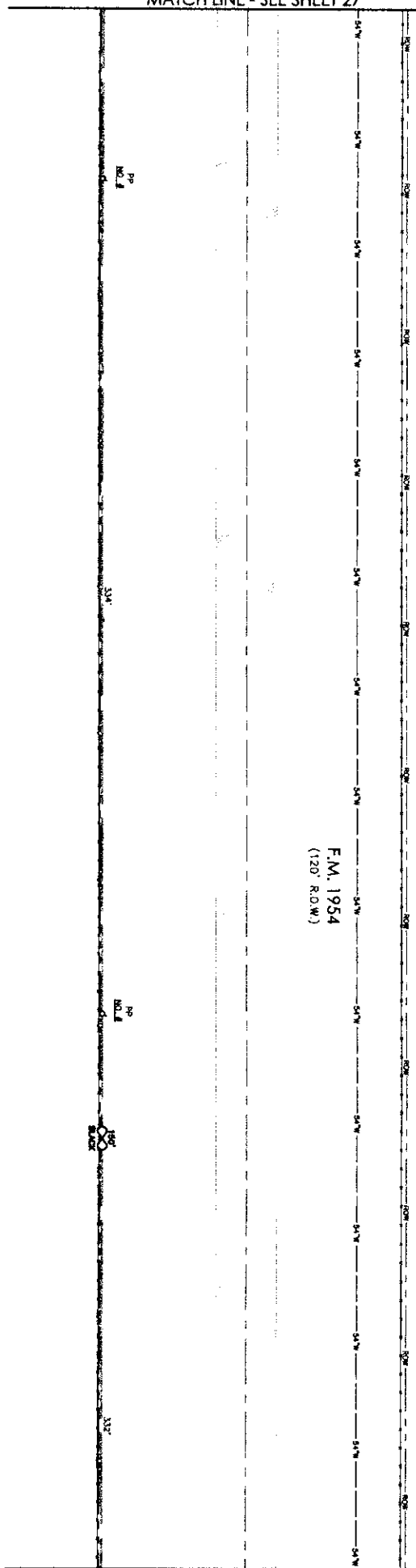
MATCH LINE - SEE SHEET 28

LEGEND

---	PROPOSED CONDUIT
---	BONE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING ZWO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING OVERHEAD: NEW BUILD
---	EXISTING OVERHEAD: OVERLASH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

MATCH LINE - SEE SHEET 27



PREPARED BY:

DEPT. CONTACT: DAVID HATION 972.470.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALT		FOC UNDERGROUND	
BONE & PLACE CONDUIT		PLACE 30'x60'x48" HANDHOLE		FOC RISER 25 FT.	666
BONE & PLACE STEEL CASING		PLACE 50'x60'x48" HANDHOLE		FOC OVERHEAD	150
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT.		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)	2	AERIAL STRAND OVERLASH		FOC TOTAL FOOTINGS	816
AERIAL POLE CONDUITS		AERIAL STRAND NEW BUILD			

NORTH

SHEET 28 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

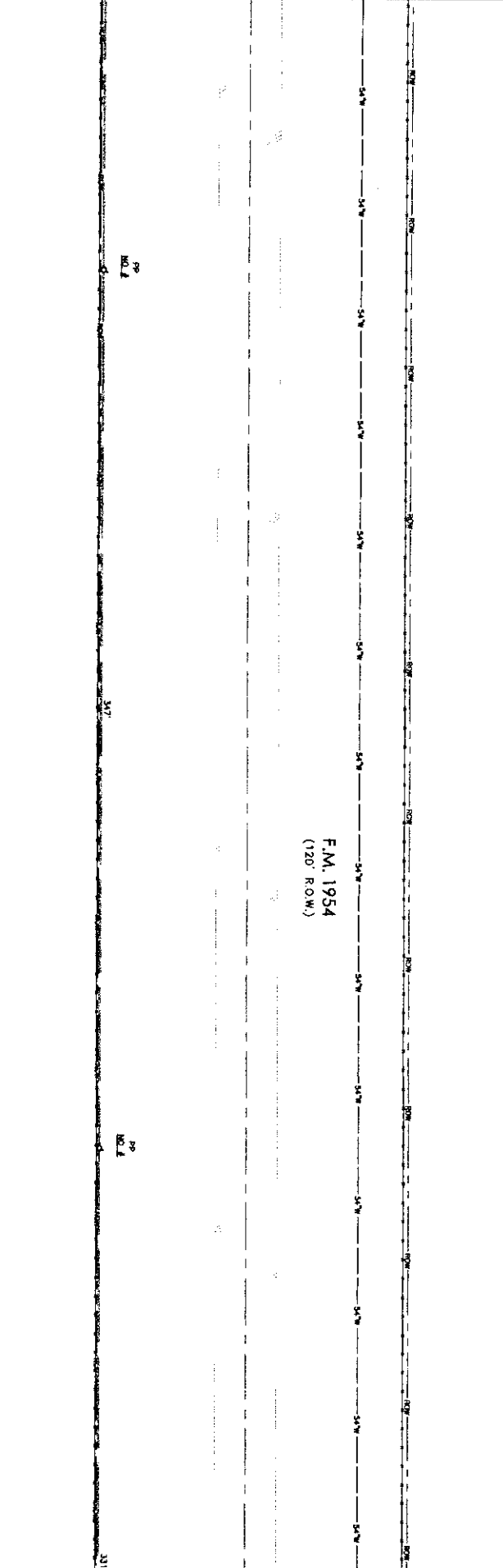
DATE: 03-04-2016

MATCH LINE - SEE SHEET 29

LEGEND	
---	PROPOSED CONDUIT
---	EXISTING CONDUIT
---	EXISTING ZAYO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING OVERHEAD: NEW BUILD
---	EXISTING OVERHEAD: OVERLASH
---	EXISTING OVERHEAD: OVERLASH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

MATCH LINE - SEE SHEET 28



MATCH LINE - SEE SHEET 30

F.M. 1954  
(120' ROW)

PREPARED BY:

DPW CONTACT: DAVID HATTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE VOLT		FOC: UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC: RISER 25 FT	
BORE & PLACE STEEL DISKS		PLACE 30"x60"x48" MANHOLE		FOC: OVERHEAD	678
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD NISBY - 25 FT		FOC: ON SLACK LOOP	
R & R CONCRETE SHOULDER (SF)		PLACE ANCHOR & DOWN GUY		FOC: UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)	2	AERIAL STRAND: OVERLASH	678	FOC: TOTAL FOOTING	678
AERIAL POLE CONTACTS		AERIAL STRAND: NEW BUILD			

NORTH

SHEET 29 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

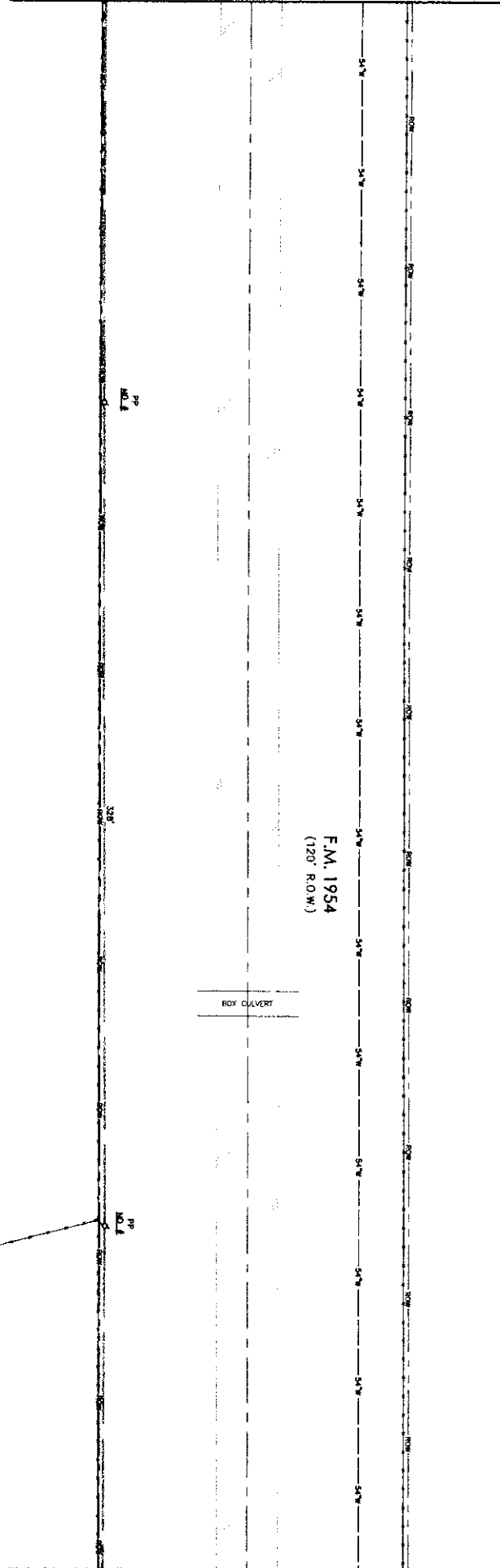


LEGEND

- PROPOSED CONDUIT
- EXISTING ZING CONDUIT
- EXISTING CUSTOMER CONDUIT
- EXISTING OVERHEAD - NEW BUILD
- EXISTING OVERHEAD - OVERBLUSH
- EXISTING OVERHEAD - OVERBLUSH
- EXISTING OVERHEAD - OVERBLUSH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

MATCH LINE - SEE SHEET 29



F.M. 1954  
(120' R.O.W.)

BOX CULVERT

MATCH LINE - SEE SHEET 31

PREPARED BY:

DAVID HATHON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE VAULT		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE	328'	FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE FANCIEMENT (S7)	2	AERIAL STRAND - OVERBLUSH		FOC TOTAL TOWNSHIP	
AERIAL POLE CONDUITS		AERIAL STRAND - NEW BUILD	328'		328'

NORTH

SHEET 30 OF 49

PROJECT: **DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954

CITY, STATE: ARCHER COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'


VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

Zayo GROUP

PREPARED BY:  
  
 DEPT. CONTACT: DAVID HANTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	100'	PLACE WALL		FOC. UNDERGROUND	100'
BONE & PLACE CONDUIT		PLACE 30" x 60" x 48" MANHOLE	1	FOC. RISER 25 FT.	25
BONE & PLACE STREET CISING		PLACE 30" x 60" x 48" MANHOLE	1	FOC. OVERHEAD	852'
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT.	1	FOC. OH SLACK LOOP	150'
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN BOLT	1	FOC. UG SLACK LOOP	
R & R CONCRETE OVERLASH (S7)		REMOVE STRAND OVERLASH		FOC. TOTAL FOOTAGE	927'
REMOVE POLE CONDUITS	2	REMOVE STRAND NEW BUILD	852'		

31 OF 49 SHEET  


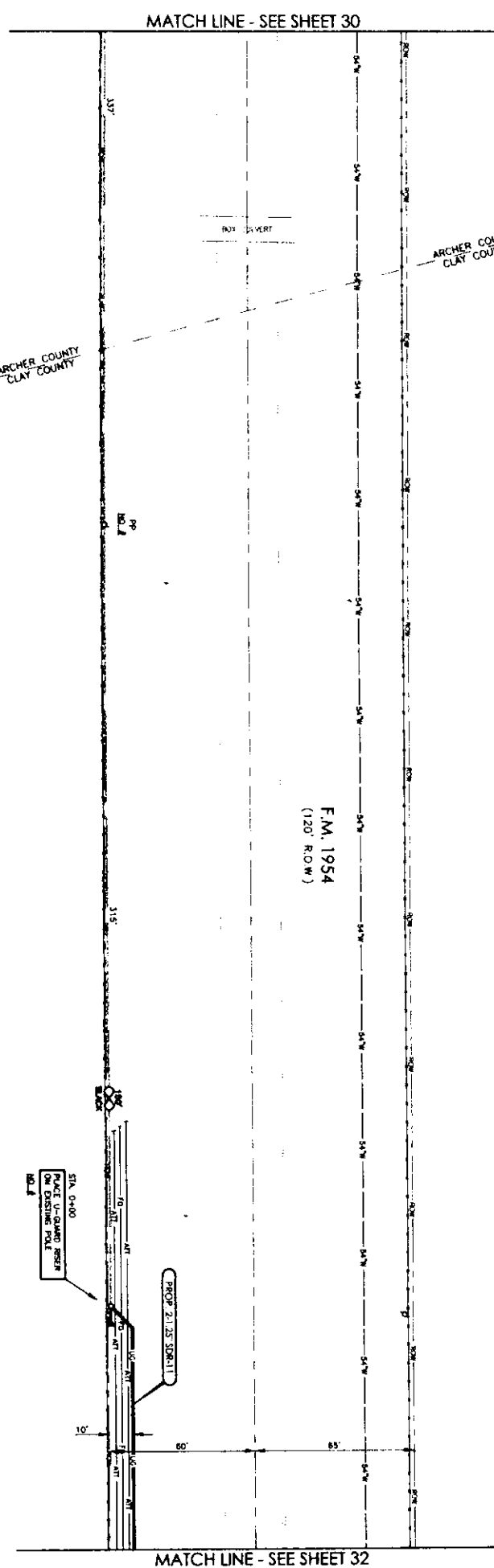
PROJECT: DA LAKE ARROWHEAD  
 ADDRESS: 4712 FM 1954  
 CITY, STATE: ARCHER CO. & CLAY CO., TEXAS  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'  
 DATE: 03-04-2016



LEGEND

---	PROPOSED CONDUIT
---	BONE UNDER CONCRETE
---	EXISTING 240 CONDUIT
---	EXISTING OVERHEAD NEW BUILD
---	EXISTING OVERHEAD OVERLASH
---	EXISTING CUSTOMER CONDUIT
---	EXISTING 240 CONDUIT
---	EXISTING OVERHEAD NEW BUILD
---	EXISTING OVERHEAD OVERLASH

ALL POLES ARE ONCOR  
 UNLESS NOTED OTHERWISE



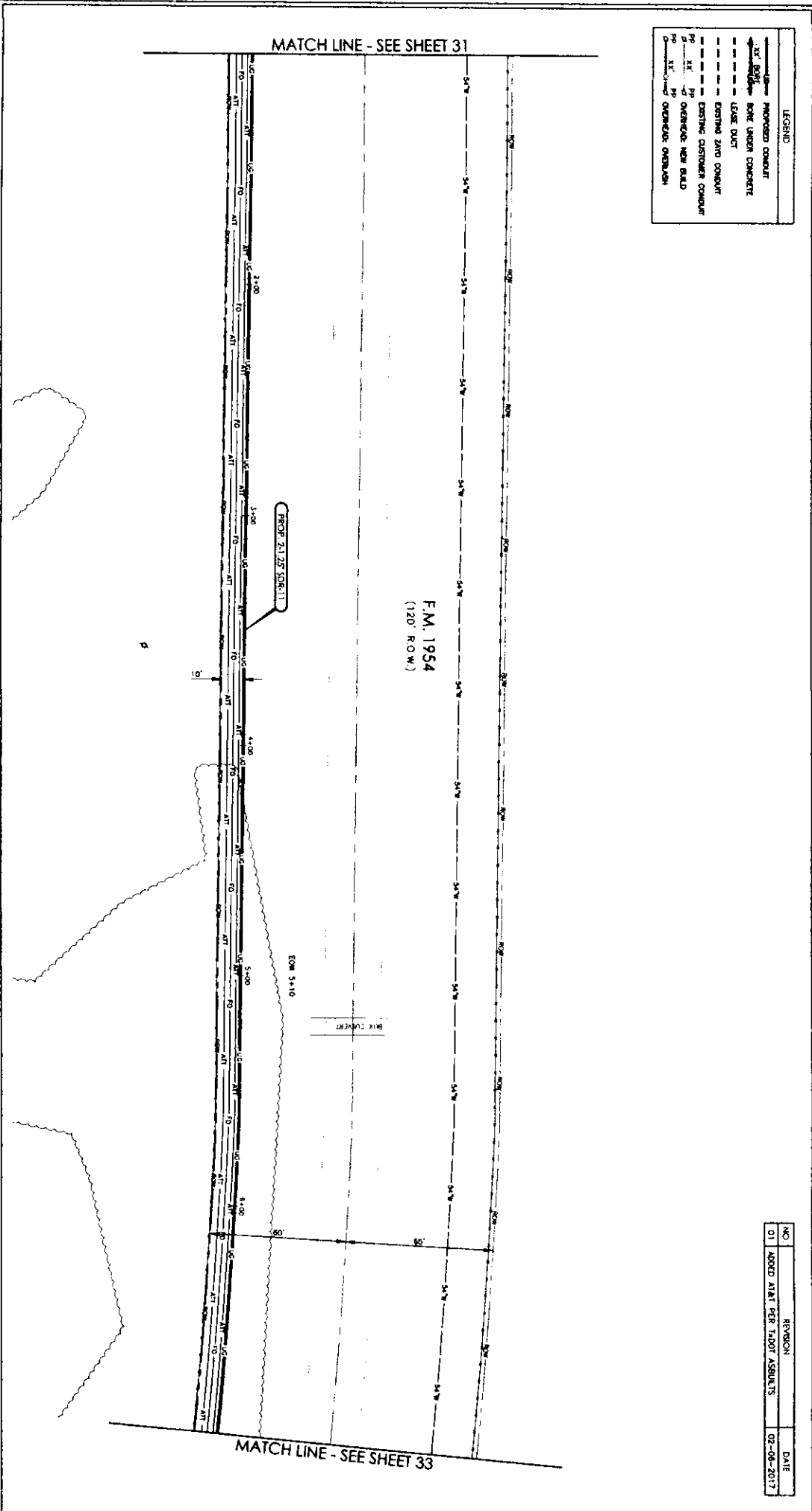
F.M. 1954  
 (120' ROW)

STA. 0+00  
 PLACE U-GUARD RISER  
 ON EXISTING POLE  
 HO. 1

NO.	REVISION	DATE
01	MODIFIED PER 1,000' ASSEMBLYS	02-04-2017

LEGEND

---	PROPOSED CONDUIT
---	BONE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING ZAYO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	OVERHEAD - NEW FIELD
---	OVERHEAD - OVERLASH



NO.	REVISION	DATE
01	ADDED AREA PER TPOD ASSESSMENTS	02-06-2017

PREPARED BY:

D'W  
TELECOM

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	600'	PLACE VAULT	600'	FOC UNDERGROUND	600'
BONE & PLACE CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC RISER 25 FT	
BONE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC USE SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND OVERLASH		FOC TOTAL FOOTAGE	600'
AERIAL POLE CONTACTS		AERIAL STRAND NEW BUILD			

NORTH

SHEET 32 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: CLAY COUNTY, TEXAS

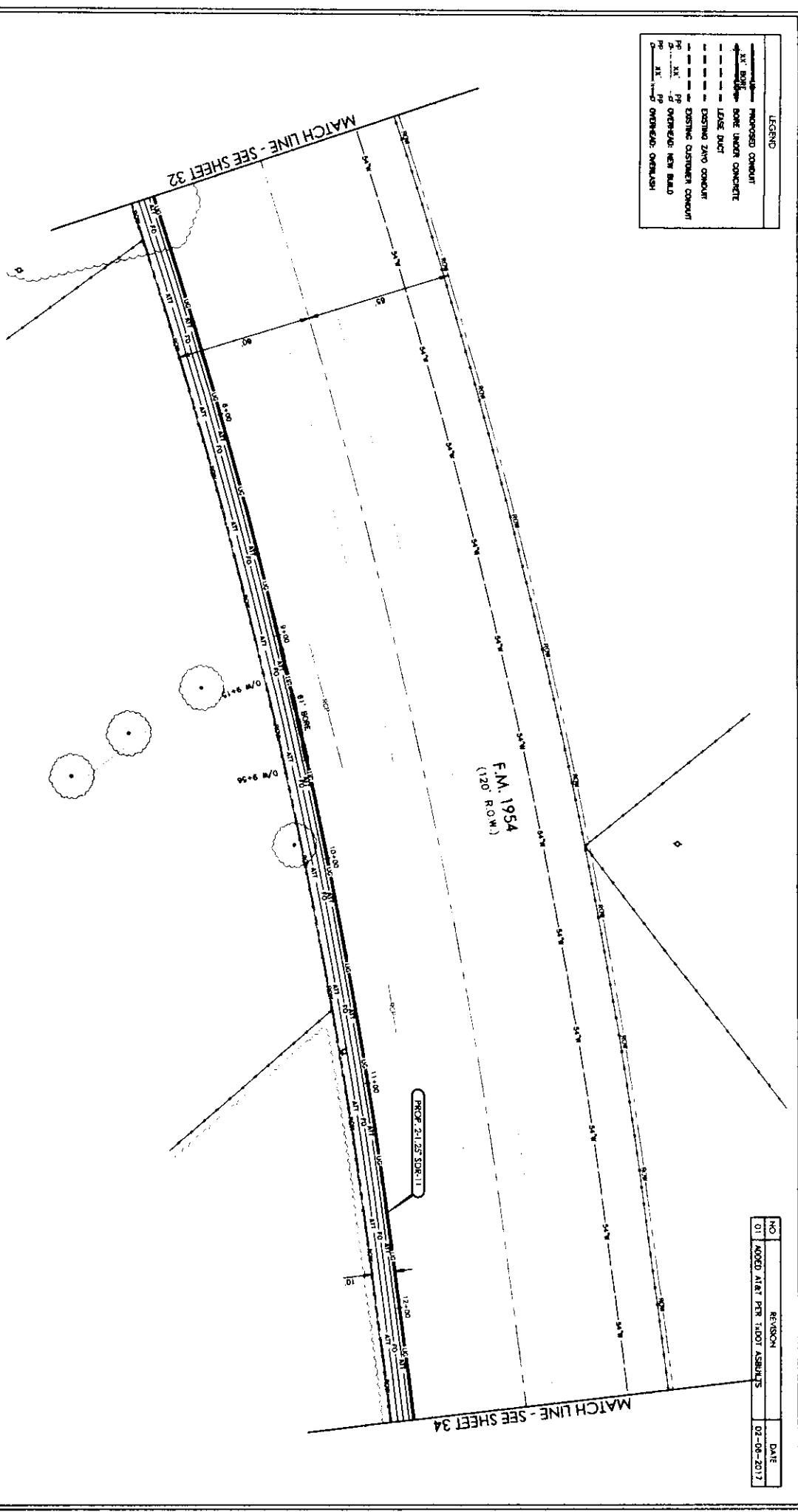
HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

Zayo  
GROUP

LEGEND	
---	PROPOSED CONDUIT
---	12" BORE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING ZAYO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING OVERHEAD: NEW BUILD
---	EXISTING OVERHEAD: OVERLASH



PREPARED BY:  
  
 D W TELECOM  
 DWP CONTACT:  
 DAVID HATTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	489'	PLACE WALL	560'	FOC UNDERGROUND	560'
BORE & PLACE CONDUIT	51'	PLACE 30"x60"x48" MANHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC ON SLACK LOOP	
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEDWALK (S7)		AERIAL STRAND OVERLASH	550'	FOC TOTAL FOOTAGE	550'
AERIAL POLE CONTACTS		AERIAL STRAND NEW BUILD			

NORTH  
  
 SHEET 33 OF 49

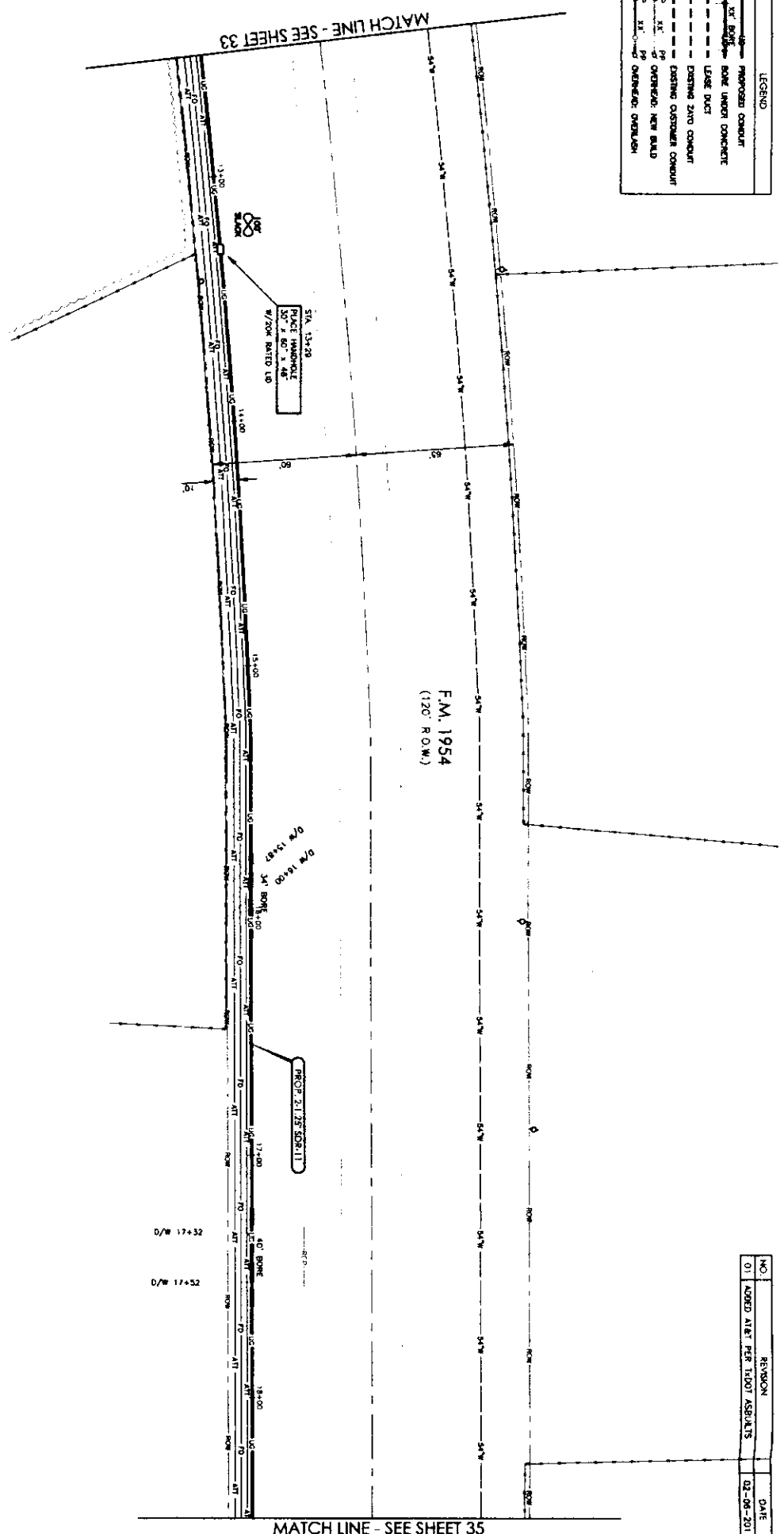
PROJECT: **DA LAKE ARROWHEAD**  
 ADDRESS: 4712 FM 1954  
 CITY, STATE: CLAY COUNTY, TEXAS  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'  
 DATE: 03-04-2016

**Zayo**  
 GROUP

NO	REVISION	DATE
01	MOOD A/E PER 1:00T ASB/ALTS	02-06-2017

LEGEND

- PROPOSED CONDUIT
- BONE UNDER CONCRETE
- LEASE DUCT
- EXISTING 24" CONDUIT
- EXISTING CUSTOMER CONDUIT
- EXISTING OVERHEAD: NEW BUILD
- EXISTING OVERHEAD: OVERLASH



NO.	REVISION	DATE
01	ADDED ALERT PER TxDOT ASSESSMENTS	02-08-2017

PREPARED BY:

D T W TELECOM  
DAVID NATION 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	528'	PLACE WALK	1	FOC UNDERGROUND	800'
BONE & PLACE CONDUIT	74'	PLACE 30" x 60" x 48" HANDHOLE	1	FOC RISER 25 FT	100'
BONE & PLACE STEEL CASING		PLACE 30" x 60" x 48" HANDHOLE		FOC OVERHEAD	100'
PULL THROUGH EXISTING CONDUIT		PLACE U-GLAND RISER - 25 FT		FOC ON SLACK LOOP	100'
R & R CONCRETE PAVEMENT (SR)		PLACE ANCHOR & DOWN CUT		FOC TOTAL FOOTING	700'
R & R CONCRETE PAVEMENT (SR)		ASPH. STRAND OVERLASH			
ASPH. POLE CONTACTS		ASPH. STRAND NEW BUILD			

NORTH

SHEET 34 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: CLAY COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

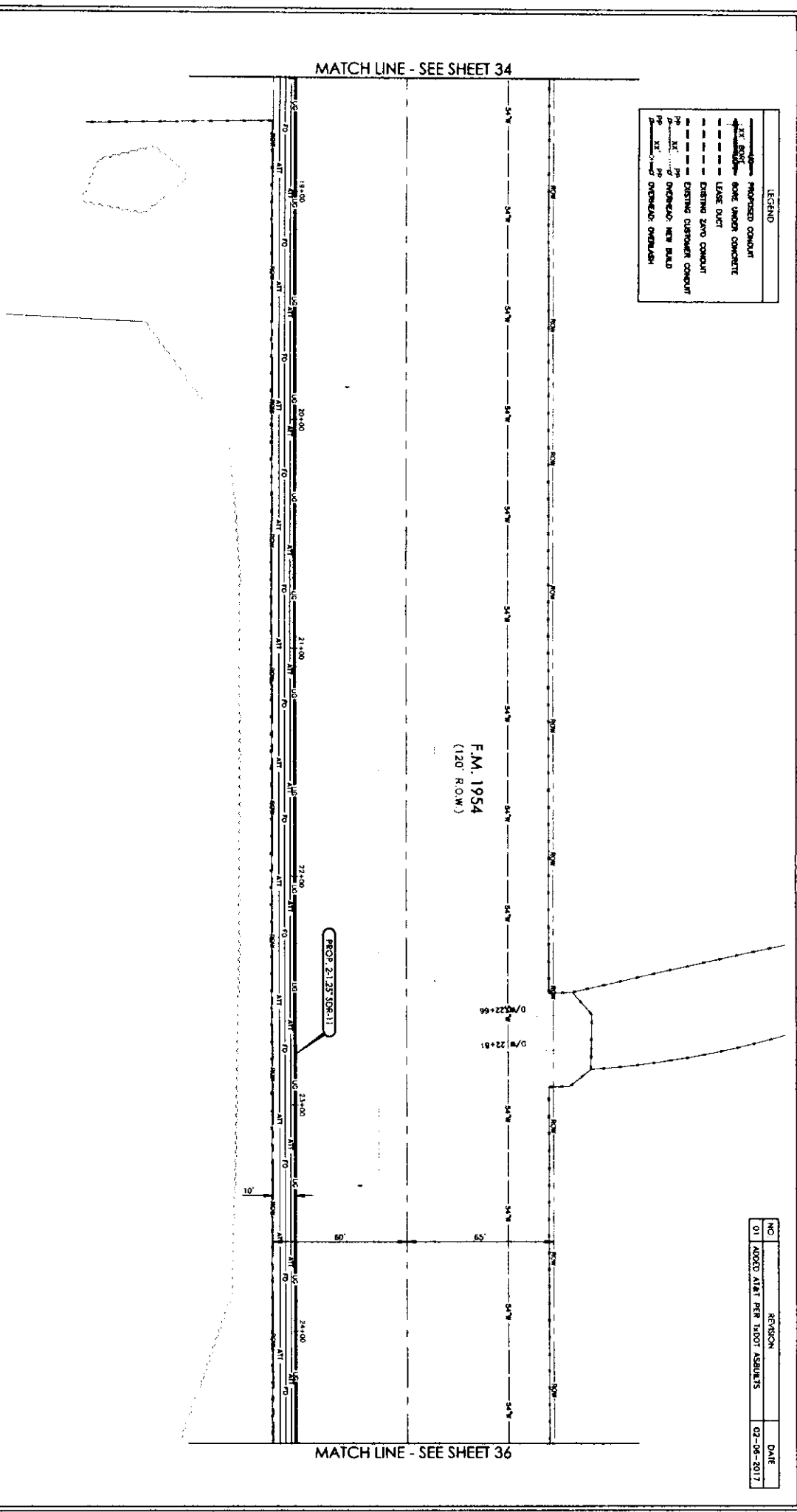
VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

Zayo GROUP

NO	REVISION	DATE
01	ADDED ALERT PER TxDOT ASSESSMENTS	02-06-2017

LEGEND	
	PROPOSED CONDUIT
	BORE UNDER CONCRETE
	LEASE DIRT
	EXISTING 24" CONDUIT
	EXISTING CUSTOMER CONDUIT
	EXISTING OVERHEAD - NEW BUILD
	EXISTING OVERHEAD - OVERLASH



MATCH LINE - SEE SHEET 34

MATCH LINE - SEE SHEET 36

F.M. 1954  
(120' ROW)

PROP. 24" 25' SDR-11

PREPARED BY:

DEPT. CONTACT:  
DAVID HATTON 972.426.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	800'	PLACE VAULT		FOC UNDERROAD	800'
BORE & PLACE CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC NESTER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		PLACE ANCHOR & DOWN CUT		FOC UP SLACK LOOP	
R & R CONCRETE PAVEMENT (SF)		AERIAL STRAND - OVERLASH		FOC TOTAL FOOTING	800'
AERIAL POLE CONTACTS		AERIAL STRAND - NEW BUILD			

ESTIMATED SHEET TOTALS

NORTH

35  
of  
49  
SHEET

PROJECT: **DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954

CITY, STATE: CLAY COUNTY, TEXAS

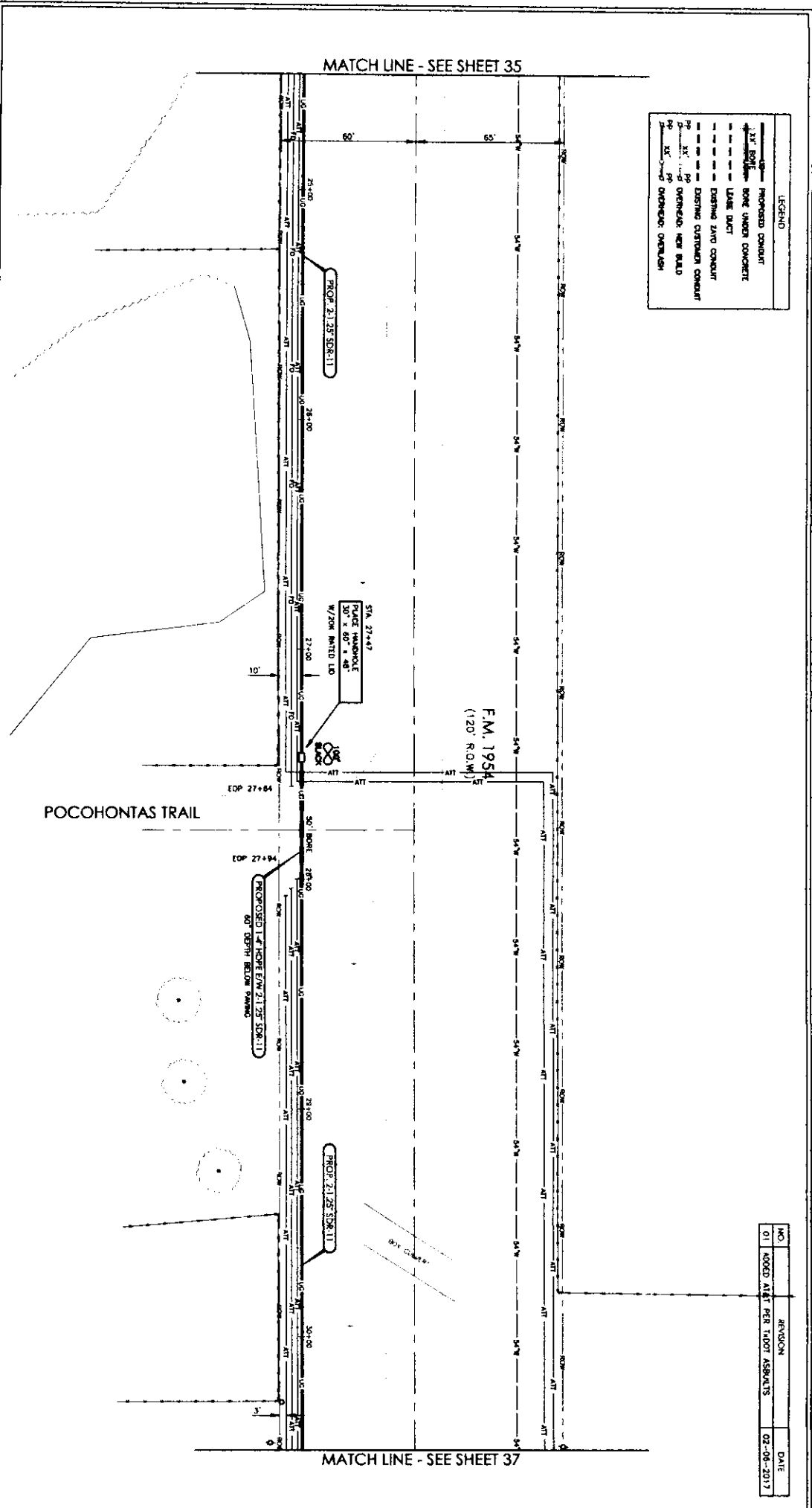
HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

NO.	REVISION	DATE
01	NOOD A1/T PER T.I.DOT ASBULTS	02-08-2017

LEGEND	
	PROPOSED CONDUIT
	BORE UNDER CONCRETE
	UTILITY DUCT
	EXISTING 24" ID CONDUIT
	EXISTING 36" ID CONDUIT
	EXISTING 48" ID CONDUIT
	EXISTING 60" ID CONDUIT
	OVERHEAD NEW BUILD
	OVERHEAD OVERHAUL



DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	5500	PLACE VAULT	1	FOC UNDERGROUND	600
BORE & PLACE CONDUIT	50'	PLACE 30"x40"x48" MANHOLE	1	FOC RISER 25 FT	100
BORE & PLACE STEEL CASING		PLACE 30"x40"x48" MANHOLE		FOC OVERHEAD	100
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC ON SLACK LOOP	100
R & R CONCRETE SUPERMAN (SF)		PLACE ANCHOR & DOWN CUY		FOC 1/2 SLACK LOOP	100
R & R CONCRETE PAVEMENT (SF)		PLACE STRANG & OVERLASH		FOC TOTAL TENDRAGE	700'
AERIAL POLE CONTRACTS		AERIAL STRANG NEW BUILD			

NORTH

36 OF 49 SHEET

**PROJECT: DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954  
 CITY, STATE: CLAY COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016



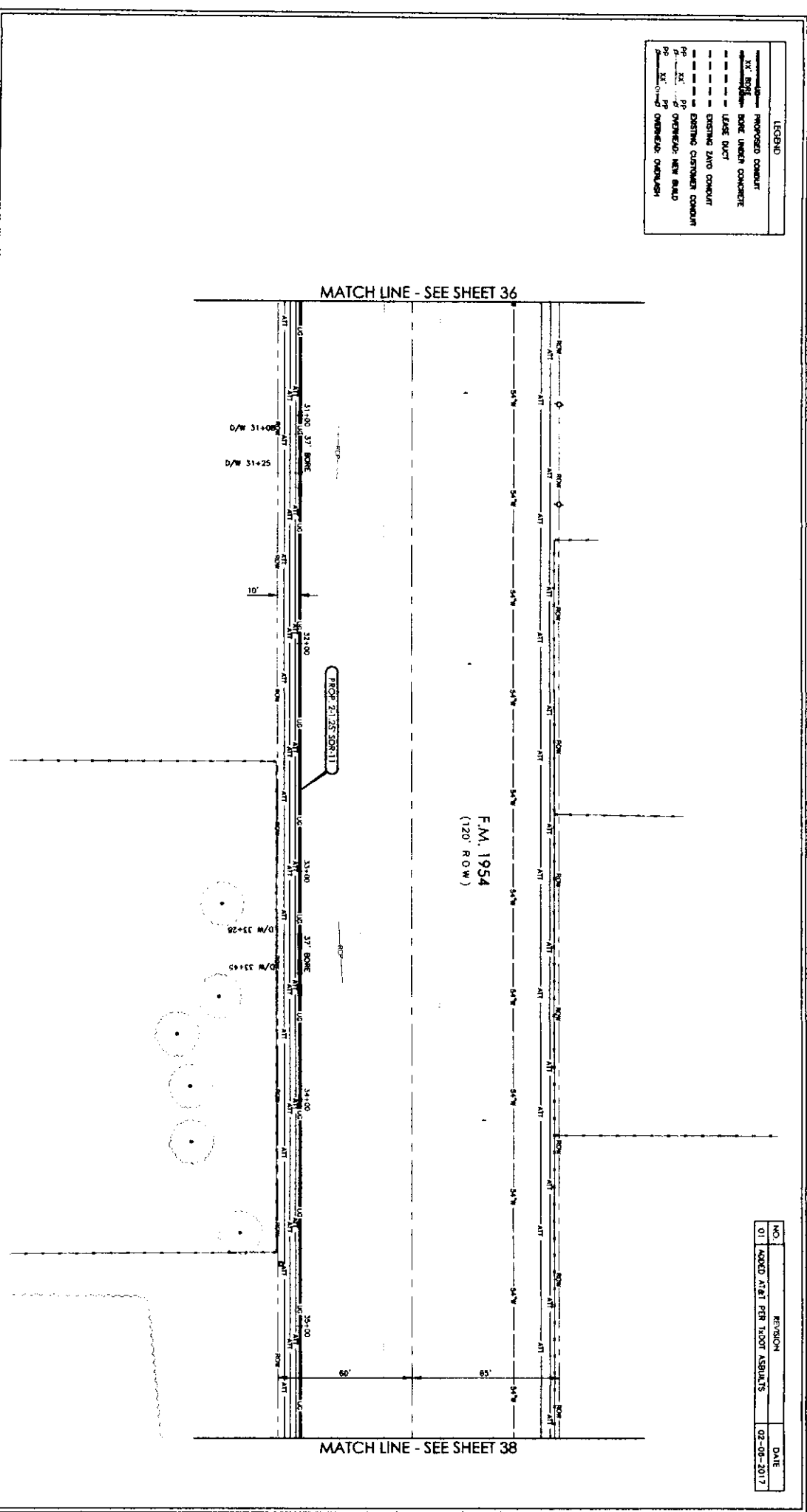
PREPARED BY:

DPWT CONTACT: DAVID HATTON 972.670.2113

MATCH LINE - SEE SHEET 35

MATCH LINE - SEE SHEET 37

LEGEND	
---	PROPOSED CONDUIT
---	EXISTING CONDUIT
---	BORE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING 24" CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING NEW ROAD
---	OVERHEAD OVERLAP



Prepared by:

DAVID HANTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	426	PLACE VALET		FOC UNDERGROUND	500'
BORE & PLACE CONDUIT	74'	PLACE 30"x60"x48" MANHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE PAVEMENT (S7)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (S7)		AERIAL STRAND OVERLAP		FOC TOTAL FOOTING	500'
AERIAL PILE CONTACTS		AERIAL STRAND NEW ROAD			

NORTH

SHEET 37 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: CLAY COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'


VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

NO.	REVISION	DATE
01	ADD A&T PER T&OT ASBUILTS	02-08-2017



PREPARED BY:




DAVID HATTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	550'	PLACE VAULT		FOC UNDERGROUND	550'
BORE & PLACE CONDUIT	50'	PLACE 30" 140" 448" HANDHOLE		FOC RISER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30" 140" 448" HANDHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN GUY		FOC US SLACK LOOP	
R & R CONCRETE PAVEMENT (S7)		AERIAL STRAND OVERLASH		FOC TOTAL FOOTING	
AERIAL POLE CONTACTS		AERIAL STRAND NEW BAND			

ESTIMATED SHEET TOTALS

NORTH



38 SHEET OF 49

PROJECT: DA LAKE ARROWHEAD

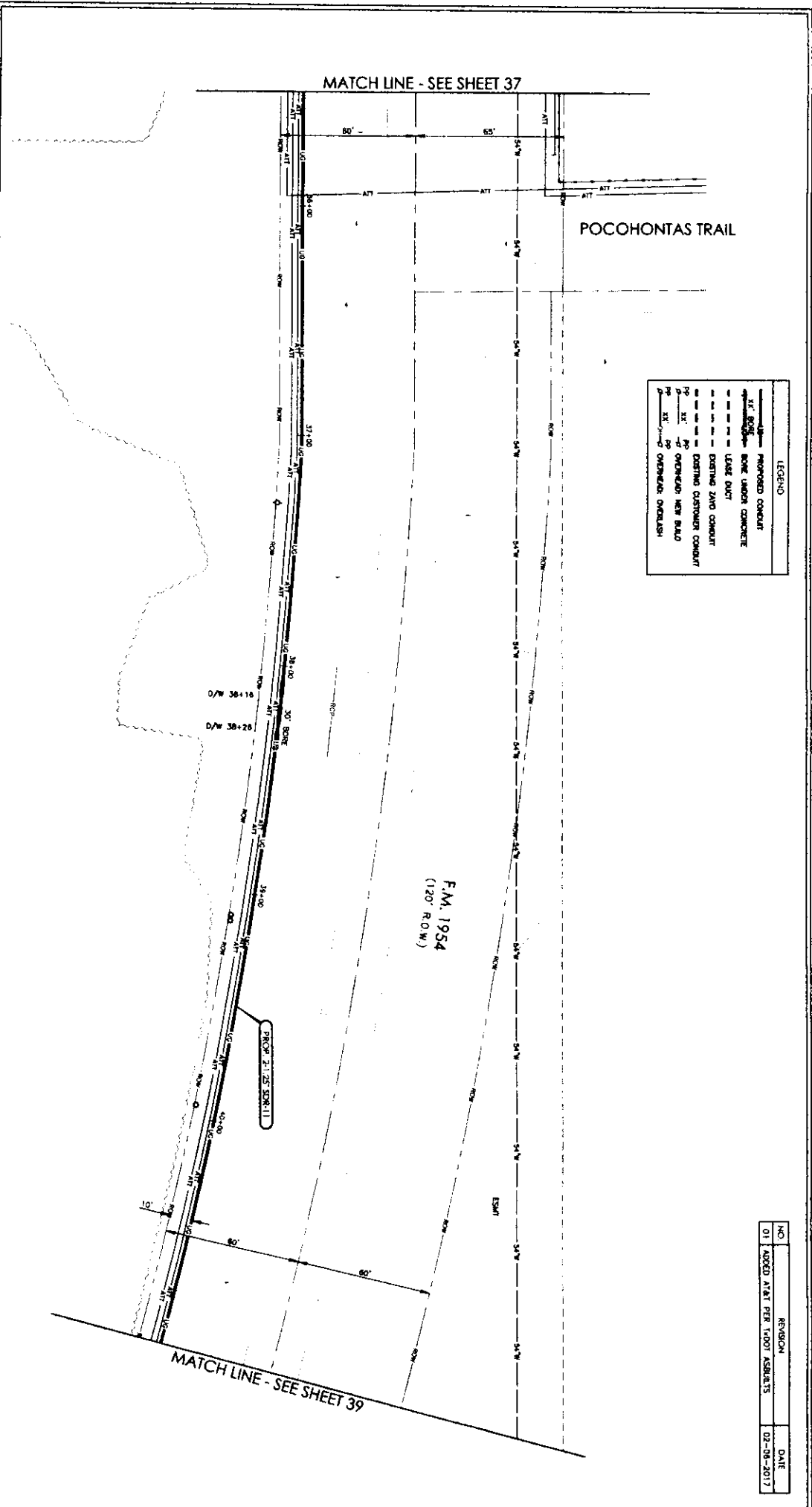
ADDRESS: 4712 FM 1954

CITY, STATE: CLAY COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

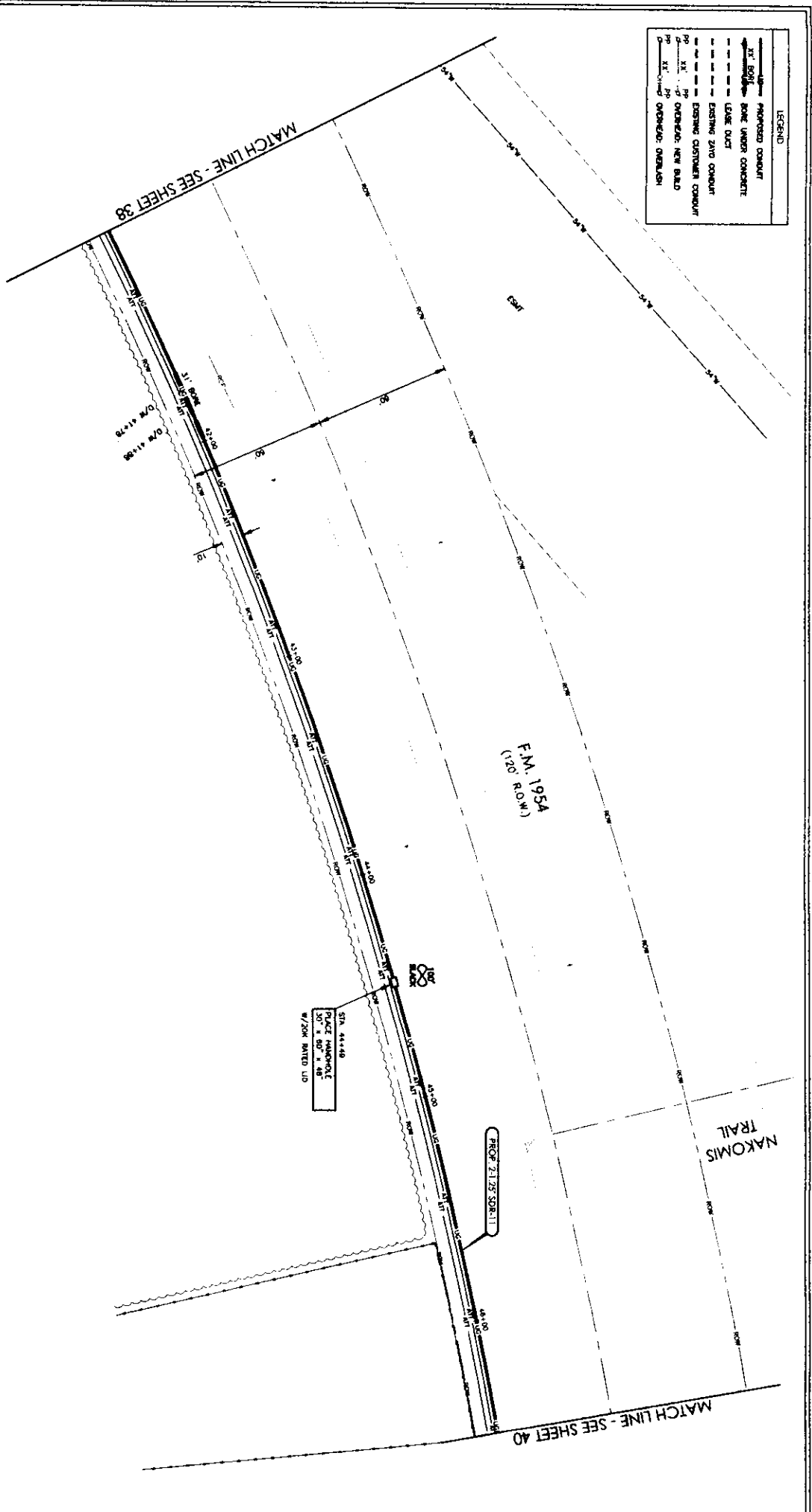
DATE: 03-04-2016

NO.	REVISION	DATE
01	ADDED A1A1 PER 1,000' AS-BUILTS	02-08-2017

LEGEND

---	PROPOSED CONDUIT
---	BONE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING ZAYO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	OVERHEAD: NEW BUILD
---	OVERHEAD: OVERLASH



PREPARED BY:

D W TELECOM

DPWT CONTRACT  
DAVID HANITON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	519'	PLACE VAULT		FOC UNDERGROUND	350
BONE & PLACE CONDUIT	31'	PLACE 30"x60"x48" MANHOLE	1	FOC RISE 25 FT	
PULL THROUGH EXISTING CONDUIT		PLACE 30"x60"x48" MANHOLE		FOC OVERHEAD	
R & R CONCRETE PAVEMENT (S7)		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	100'
AERIAL POLE CONDUITS		PLACE ANCHOR & DOWN GUY		FOC OH SLACK LOOP	
		AERIAL STRAND OVERLASH		FOC TOTAL FOOTAGE	650'
		AERIAL STRAND NEW BUILD			

NORTH

39 of 49 SHEETS

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: CLAY COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

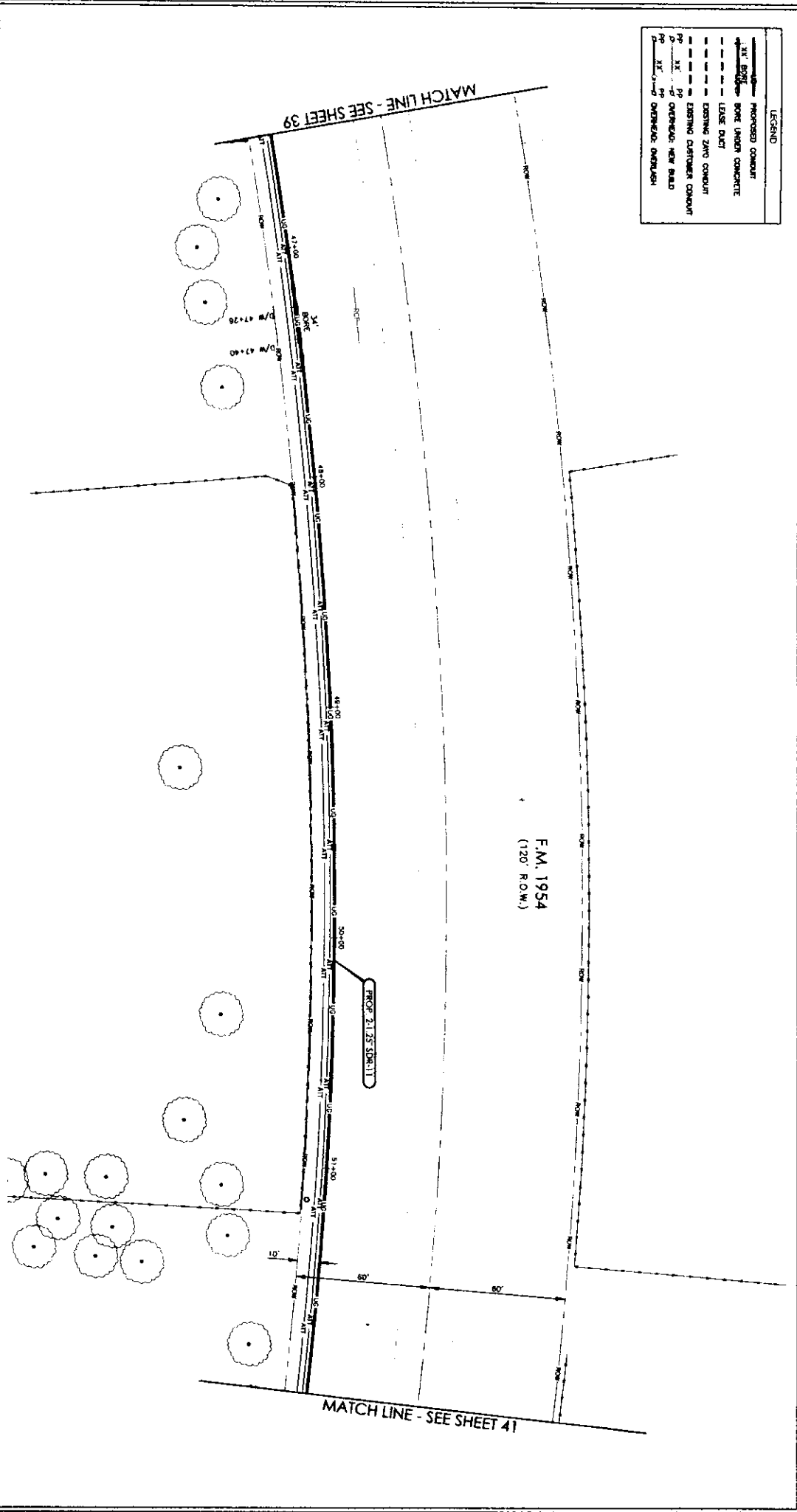
VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

Zayo GROUP

LEGEND

- PROPOSED CONDUIT
- 12" BORE BORE UNDER CONCRETE
- LEASE DUCT
- EXISTING ZAYO CONDUIT
- EXISTING CUSTOMER CONDUIT
- OVERHEAD: NEW BUILD
- OVERHEAD: OVERLASH



PREPARED BY:  
**D W TELECOM**  
 DWI CONTRACT:  
 DAVID HATTON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	515'	PLACE WALK	550'	FOC UNDERGROUND	550'
BORE & PLACE CONDUIT	34'	PLACE 30'x60'x48" MANHOLE		FOC INSER 25 FT	
BORE & PLACE STEEL CASING		PLACE 30'x60'x48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD INSER - 25 FT		FOC ON SLACK LOOP	
R & R CONCRETE SIDEWALK (S7)		PLACE ANCHOR & DOWN OUT		FOC US SLACK LOOP	
R & R CONCRETE PAVEMENT (S7)		AERIAL STRAND OVERLASH	550'	FOC TOTAL FOOTAGE	550'
AERIAL POLE CONTACTS		AERIAL STRAND NEW BUILD			

NORTH  
  
 SHEET 40 OF 49

PROJECT: **DA LAKE ARROWHEAD**  
 ADDRESS: 4712 FM 1954  
 CITY, STATE: CLAY COUNTY, TEXAS  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'  
 DATE: 03-04-2016



PREPARED BY:  
**D W TELECOM**  
 DWI CONTACT:  
 DAVID HALLON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	580'	PLACE WALL T	600'	FOC UNDERGROUND	600'
BONE & PLACE CONDUIT	40'	PLACE 50 #607+48" HANDHOLE	FOC RISER 25 FT	FOC OVERHEAD	
BONE & PLACE STEEL CASING		PLACE U-GUARD RISER - 25 FT	FOC OH SLACK LOOP	FOC UG SLACK LOOP	
PULL THROUGH EXISTING CONDUIT		PLACE ANCHOR & DOWN GUY	FOC TOTAL TOOTHAGE		600'
R & R CONCRETE SIDEWALK (SR)		AERIAL STRAND OVERLASH			
R & R CONCRETE PAVEMENT (SR)		AERIAL STRAND NEW BUILD			

ESTIMATED SHEET TOTALS

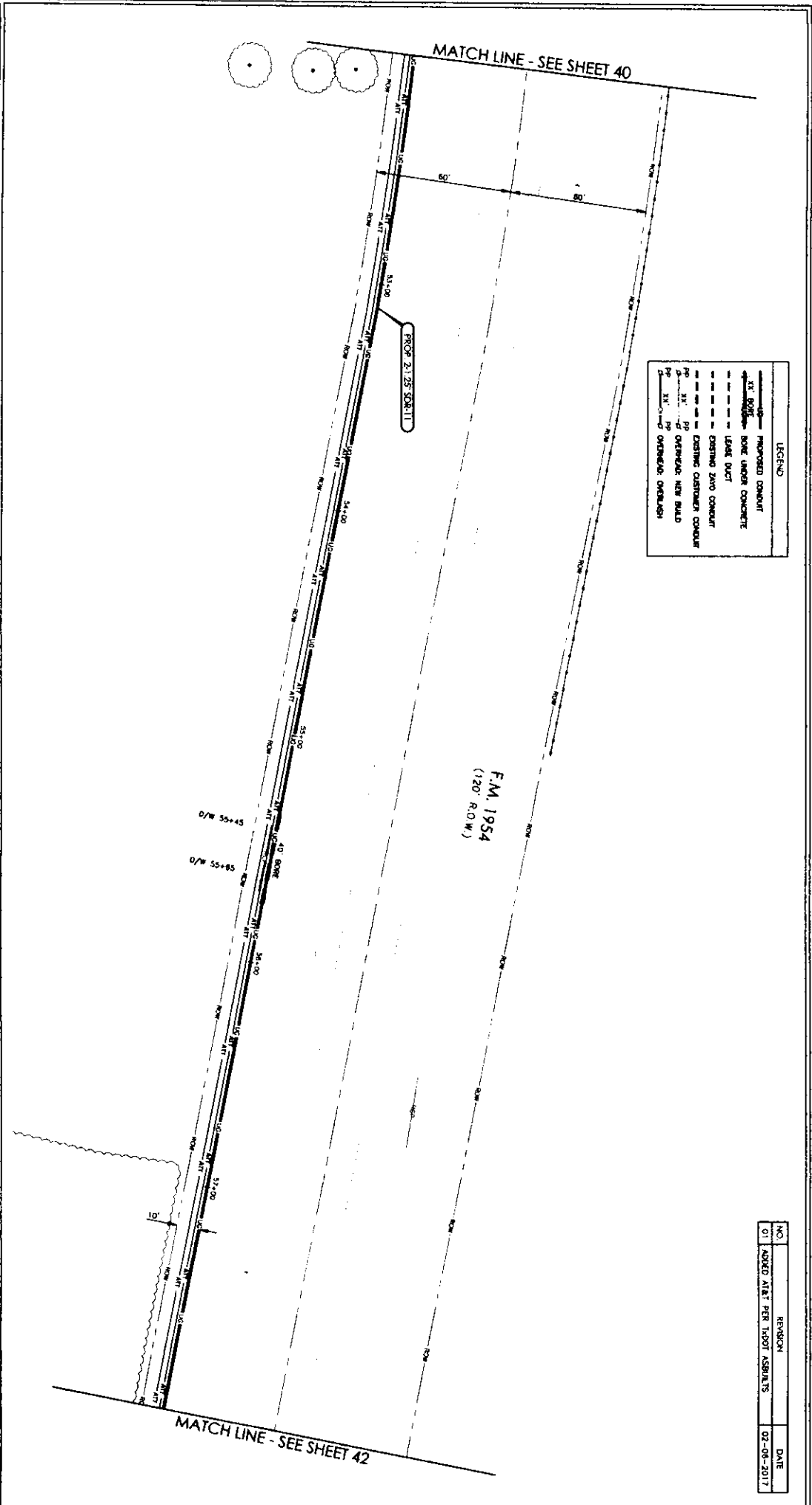
41 of 49 SHEETS

**PROJECT DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954  
 CITY, STATE: CLAY COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016




NO.	REVISION	DATE
01	ADD AIR PER TPOI ASSETS	02-08-2017

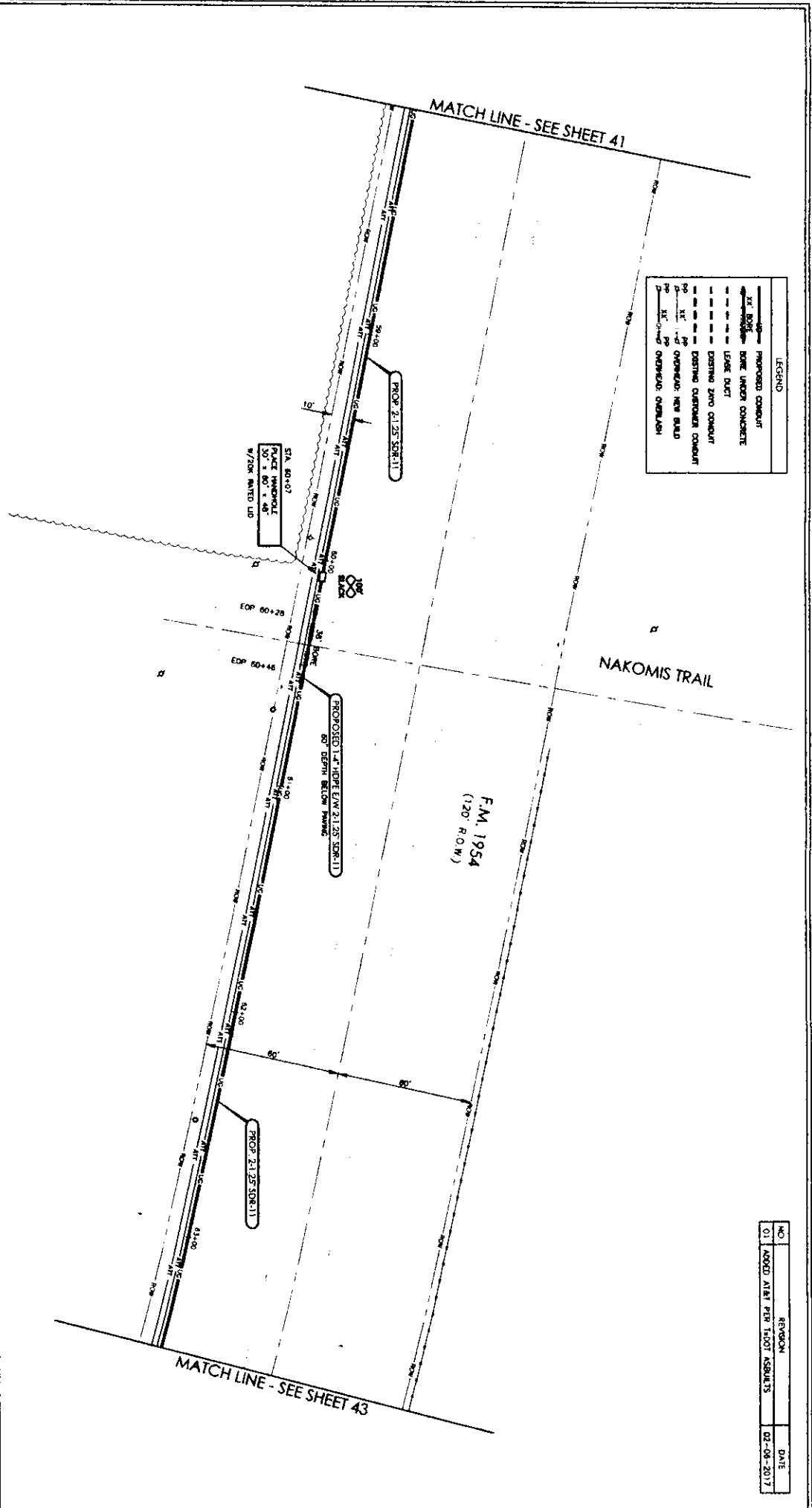
PREPARED BY  
**P T M TELECOM**  
 DEPT CONTACT  
 DAVID HUNTON 972.470.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	512	PLACE WALK	350	FOC UNDERGROUND	350
BORE & PLACE CONDUIT	36	PLACE 30" x 60" x 48" HANDHOLE	1	FOC RISER 25 FT	1
BORE & PLACE STEEL CASING		PLACE 30" x 60" x 48" HANDHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
B & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN GUY		FOC OH SLACK LOOP	100
B & R CONCRETE PAVEMENT (SF)		ALTERN STRAND OVERLASH		FOC TOTAL FOOTING	550
ALTERN POLE CONNECTIONS		ALTERN STRAND NEW BUILD			

**ESTIMATED SHEET TOTALS**

NORTH  
  
 SHEET 42 OF 49

PROJECT **DA LAKE ARROWHEAD**  
 ADDRESS 4712 FM 1954  
 CITY, STATE CLAY COUNTY, TEXAS  
 HORIZONTAL SCALE 1" = 40'  
 VERTICAL SCALE 1" = 10'  
 DATE 03-04-2016

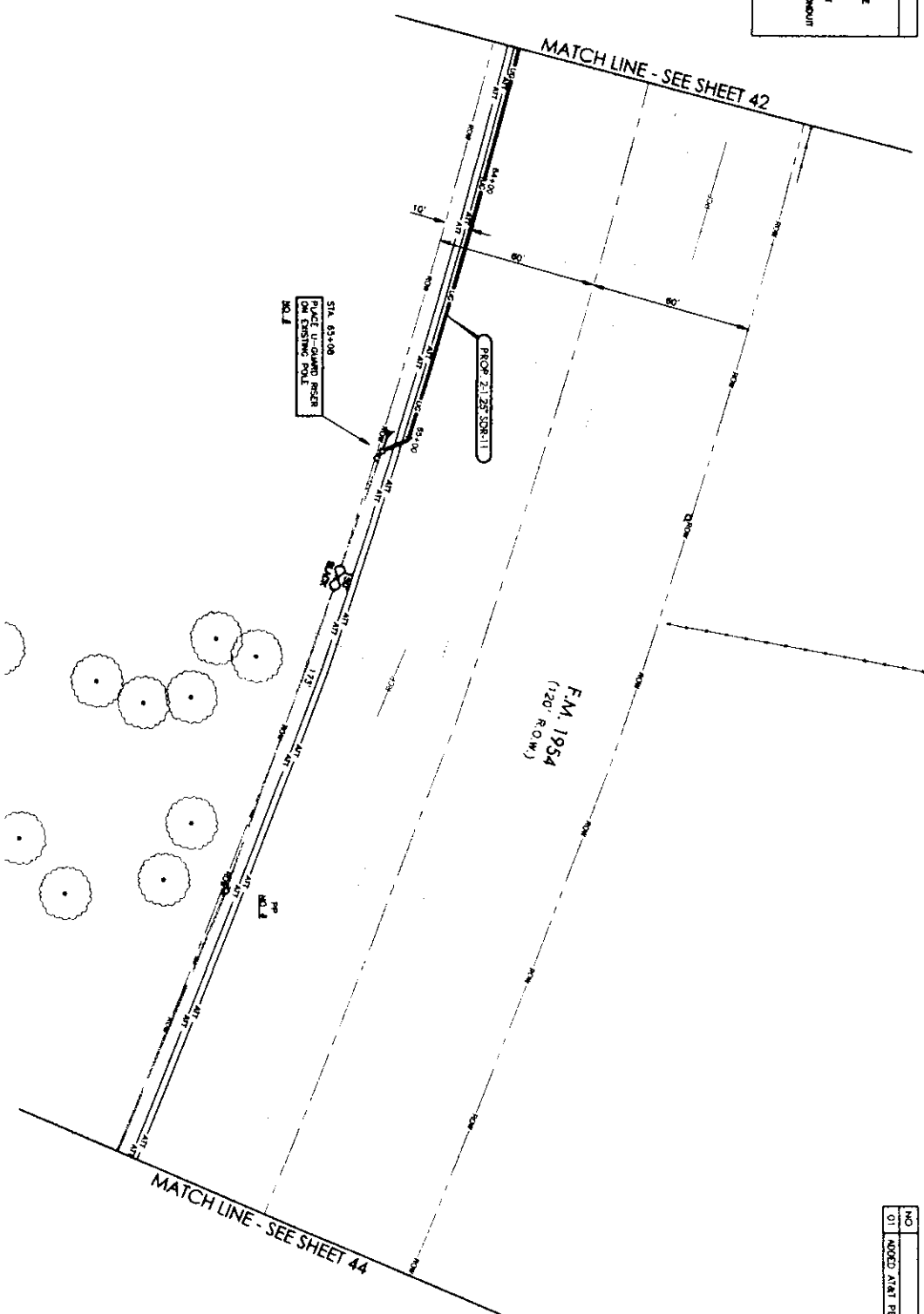



**LEGEND**

---	PROPOSED CONDUIT
---	BORE UNDER CONCRETE
---	LEAVE DUCT
---	EXISTING ZERO CONDUIT
---	EXISTING OVERHEAD CONDUIT
---	EXISTING OVERHEAD NEW BUILD
---	EXISTING OVERHEAD OVERLASH

NO.	REVISION	DATE
01	ADDED AREA PER FLOOD ASSESSMENTS	02-08-2017

LEGEND	
---	PROPOSED CONDUIT
---	EXISTING CONDUIT
---	BORE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING ZANO CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	OVERHEAD: NEW BUILD
---	OVERHEAD: OVERLASH



PREPARED BY  
  
 DAVI CONTRACT  
 DAVID HANTON 972.420.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	158'	PLACE VOLT	158	FOC UNDERGROUND	158
BORE & PLACE CONDUIT		PLACE 30'x60'x48" MANHOLE	25	FOC RISER 25 FT	25
BORE & PLACE STEEL CASING		PLACE 30'x60'x48" MANHOLE	173	FOC OVERHEAD	173
PULL THROUGH EXISTING CONDUIT		PLACE U-BLIND RISER - 25 FT	150	FOC OH SLACK LOOP	150
R & B CONCRETE PAVEMENT (S7)		PLACE ANCHOR & DOWN GUY	1	FOC UG SLACK LOOP	1
R & B CONCRETE PAVEMENT (S7)		ASPH. STRAND OVERLASH	506'	FOC TOTAL FOOTING	506'
ASPH. POLE CONTACTS	2	ASPH. STRAND NEW BUILD	173'		

NORTH  
  
 SHEET 43 OF 49

PROJECT DA LAKE ARROWHEAD  
 ADDRESS 4712 FM 1954  
 CITY, STATE CLAY COUNTY, TEXAS  
 HORIZONTAL SCALE 1" = 40'  
 VERTICAL SCALE 1" = 10'  
 DATE 03-04-2016

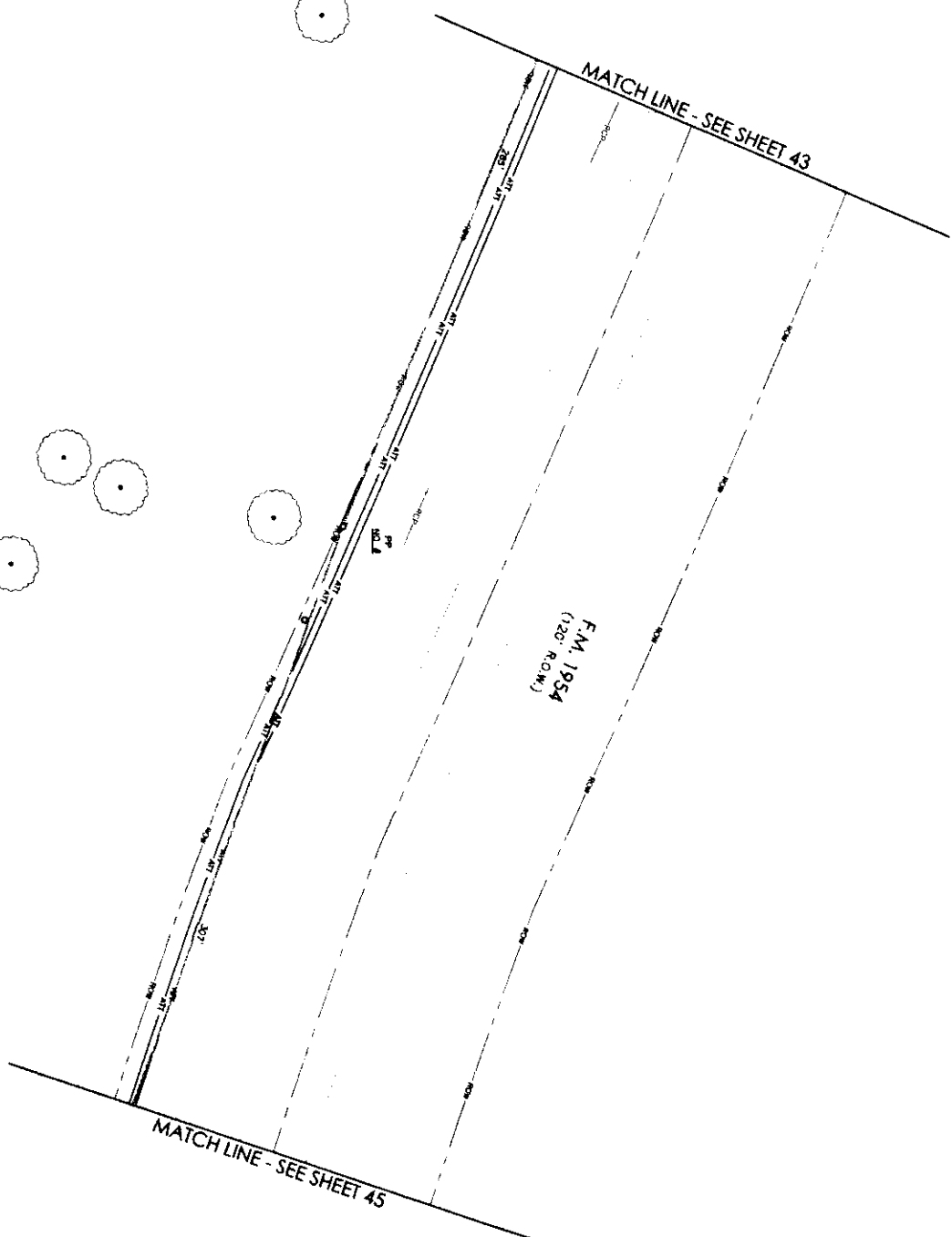


NO.	REVISION	DATE
01	NOED A741 PER 1401 ASBULTS	02-08-2017

LEGEND

---	PROPOSED CONDUIT
---	12" BORE UNDER CONCRETE
---	UNDER DUCT
---	EXISTING ZAND CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING CUSTOMER NEW BUILD
---	NEW 12" BORE UNDER CONCRETE
---	NEW 12" BORE OVERHEAD OVERLASH

ALL POLES ARE ON/COB  
UNLESS NOTED OTHERWISE



PREPARED BY:

DEPT CONTACT: DAVID HATTON 972.670.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE VAULT		FOC UNDERGROUND	
BORE & PLACE CONDUIT		PLACE 30" x 48" x 48" MANHOLE		FOC RISER 25 FT	592'
BORE & PLACE STEEL CASING		PLACE 30" x 48" x 48" MANHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE SIDEWALK (SR)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SR)		ASPHL STRAND OVERLASH		FOC TOTAL TOWING	592'
ASPHL POLE CONTACTS	1	ASPHL STRAND NEW BUILD	592'		

NORTH


44 SHEET OF 49

PROJECT: DA LAKE ARROWHEAD

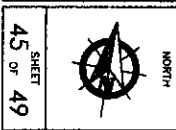
ADDRESS: 4712 FM 1954  
CITY, STATE: CLAY COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'  
VERTICAL SCALE: 1" = 10'

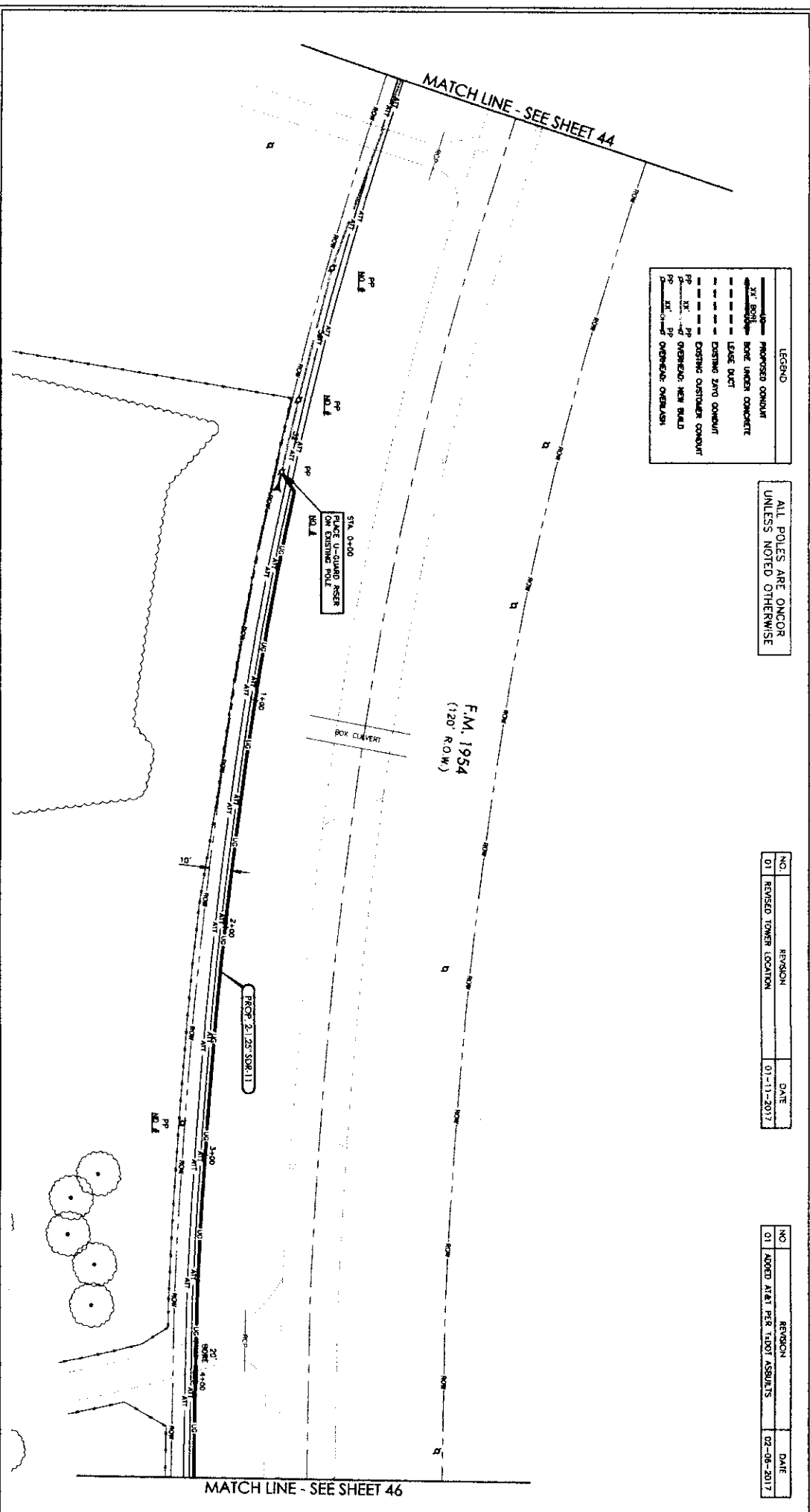
DATE: 03-04-2016

PREPARED BY:  
  
 PROJECT CONTACT:  
 DAVID HATTON 972.470.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	420'	PLACE VALVE	440	FOC: UNDERGROUND	440
BORE & PLACE CONDUIT	20	PLACE 30"x60"x48" MANHOLE	25	FOC: RISER 25 FT	25
BORE & PLACE STEEL DRUMS		PLACE 30"x60"x48" MANHOLE	91'	FOC: OVERHEAD	91'
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 28 FT	1	FOC: ON SLACK LOOP	
R & R CONCRETE SPANWALK (S)	3	PLACE ANCHOR & DOWN GUY	1	FOC: UG SLACK LOOP	
R & R CONCRETE SPANWALK (S)	3	AERIAL STRAND: OVERLASH	91'	FOC: TOTAL FOOTING	556'
AERIAL POLE CONTACTS		AERIAL STRAND: NEW BUILD			



PROJECT: **DA LAKE ARROWHEAD**  
 ADDRESS: 4712 FM 1954  
 CITY, STATE: CLAY COUNTY, TEXAS  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'  
 DATE: 03-04-2016



LEGEND

---	PROPOSED CONDUIT
---	BORE UNDER CONCRETE
---	LEASE DUCT
---	EXISTING 240' CONDUIT
---	EXISTING OVERHEAD CONDUIT
PP	OVERHEAD NEW BUILD
PP	OVERHEAD OVERLASH

ALL POLES ARE ONCOR  
 UNLESS NOTED OTHERWISE

NO.	REVISION	DATE
01	REVISED TOWER LOCATION	01-11-2017

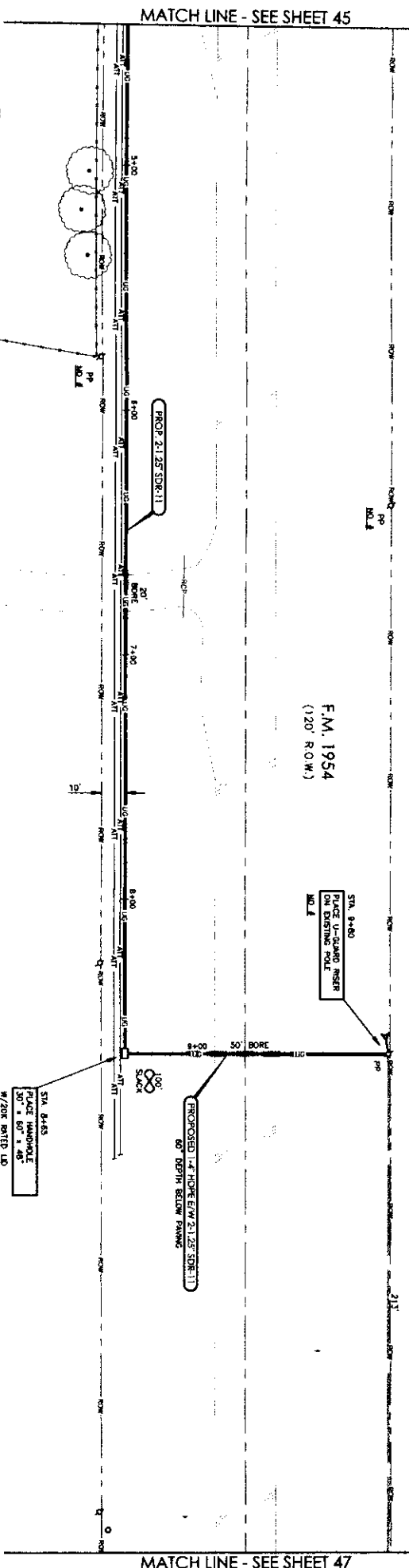
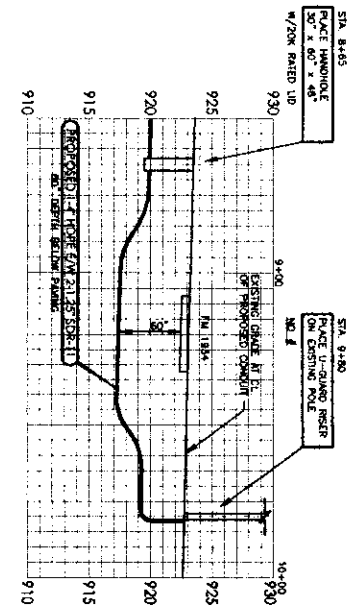
NO.	REVISION	DATE
01	ADDED A&E PER T&D'S ASBULTS	02-08-2017



LEGEND	
---	PROPOSED CONDUIT
---	BONE UNDER CONCRETE
---	LEAVE BLANK
---	EXISTING 2" AND CONDUIT
---	EXISTING CUSTOMER CONDUIT
---	EXISTING OVERHEAD: NEW ROAD
---	EXISTING OVERHEAD: OVERLASH

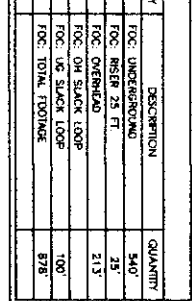
ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

NO.	REVISION	DATE
01	REVISED TOWER LOCATION	01-11-2017



DESCRIPTION	QUANTITY	PLACE VALUE	DESCRIPTION	QUANTITY	FOC UNDERGROUND	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	470'		FOC UNDERGROUND	540'			
BONE & PLACE CONDUIT	70'		FOC RESER 25 FT	25'			
BONE & PLACE STEEL CASING			FOC OVERHEAD	213'			
PULL THROUGH EXISTING CONDUIT			FOC ON SLACK LOOP	100'			
R & R CONCRETE SERRAVALLE (SR)			FOC UG SLACK LOOP	100'			
R & R CONCRETE PAVEMENT (SP)			AERIAL STRAND OVERLASH	878'			
AERIAL STRAND OVERLASH			AERIAL STRAND NEW ROAD	213'			

ESTIMATED SHEET TOTALS



46 OF 49 SHEETS

PROJECT: DA LAKE ARROWHEAD  
 ADDRESS: 4712 FM 1954  
 CITY, STATE: CLAY COUNTY, TEXAS  
 HORIZONTAL SCALE: 1" = 40'  
 VERTICAL SCALE: 1" = 10'  
 DATE: 03-04-2016



PREPARED BY:  
 DAVID NATION 972.670.2115

DAVID NATION 972.670.2115

DAVID NATION 972.670.2115

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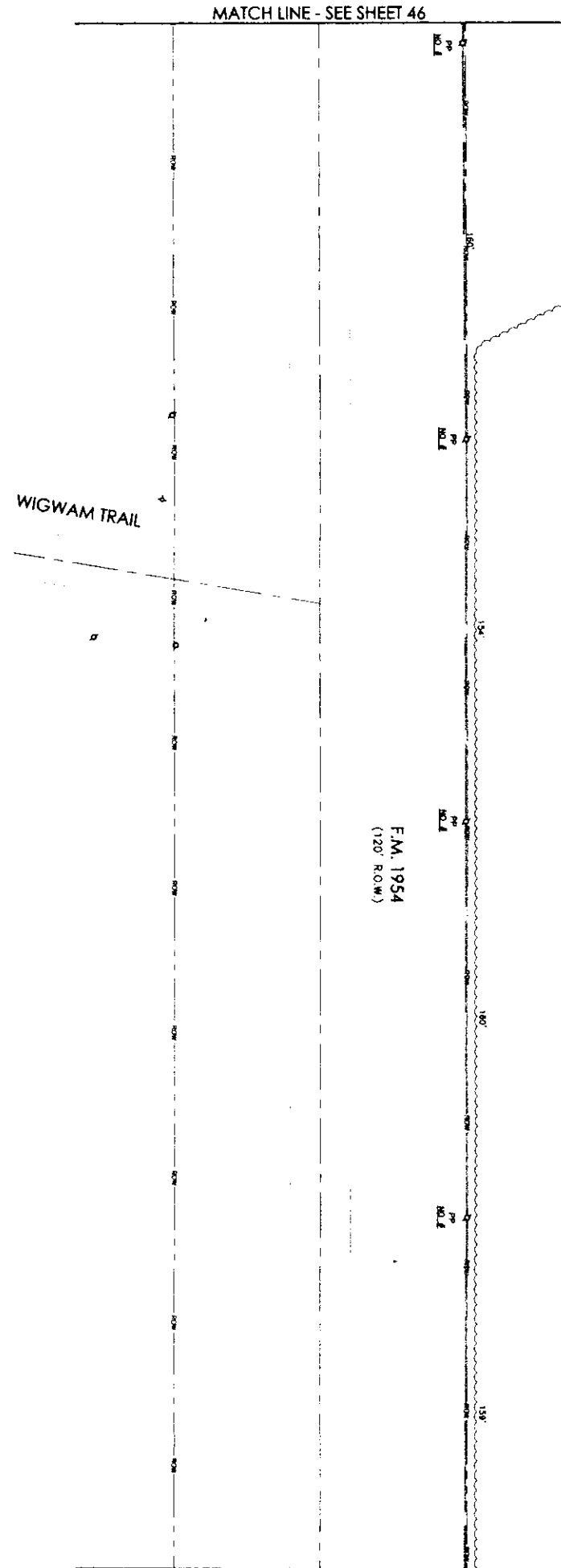
MATCH LINE - SEE SHEET 45

MATCH LINE - SEE SHEET 47

LEGEND

---	PROPOSED CONDUIT
---	EXIST. BORR
---	EXIST. UNDER CONCRETE
---	LEAK DUCT
---	EXISTING 24" DUCT
---	EXISTING 24" CONDUIT
---	EXISTING 4" CONDUIT
---	EXISTING OVERHEAD NEW BUILD
---	EXISTING OVERHEAD OVERLASH

ALL POLES ARE ON CORNER UNLESS NOTED OTHERWISE



PREPARED BY:

DAVID WATSON 972.670.2113

ESTIMATED SHEET TOTALS

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT		PLACE WALK		FOC UNDERGROUND	
BORR & PLACE CONDUIT		PLACE 30"x60"x48" HANDHOLE		FOC RISER 25 FT	
BORR & PLACE STEEL CASING		PLACE 30"x60"x48" HANDHOLE		FOC OVERHEAD	633'
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC OH SLACK LOOP	
R & R CONCRETE PAVEMENT (SR)		PLACE ANCHOR & DOWN QTY		FOC UG SLACK LOOP	
R & R CONCRETE PAVEMENT (SR)	4	INSTALL STRAND OVERLASH		FOC TOTAL FOOTAGE	633'
GENERAL POLE CONTRACTS		GENERAL STRAND NEW BUILD			

NORTH

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954  
CITY, STATE: CLAY COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'  
VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

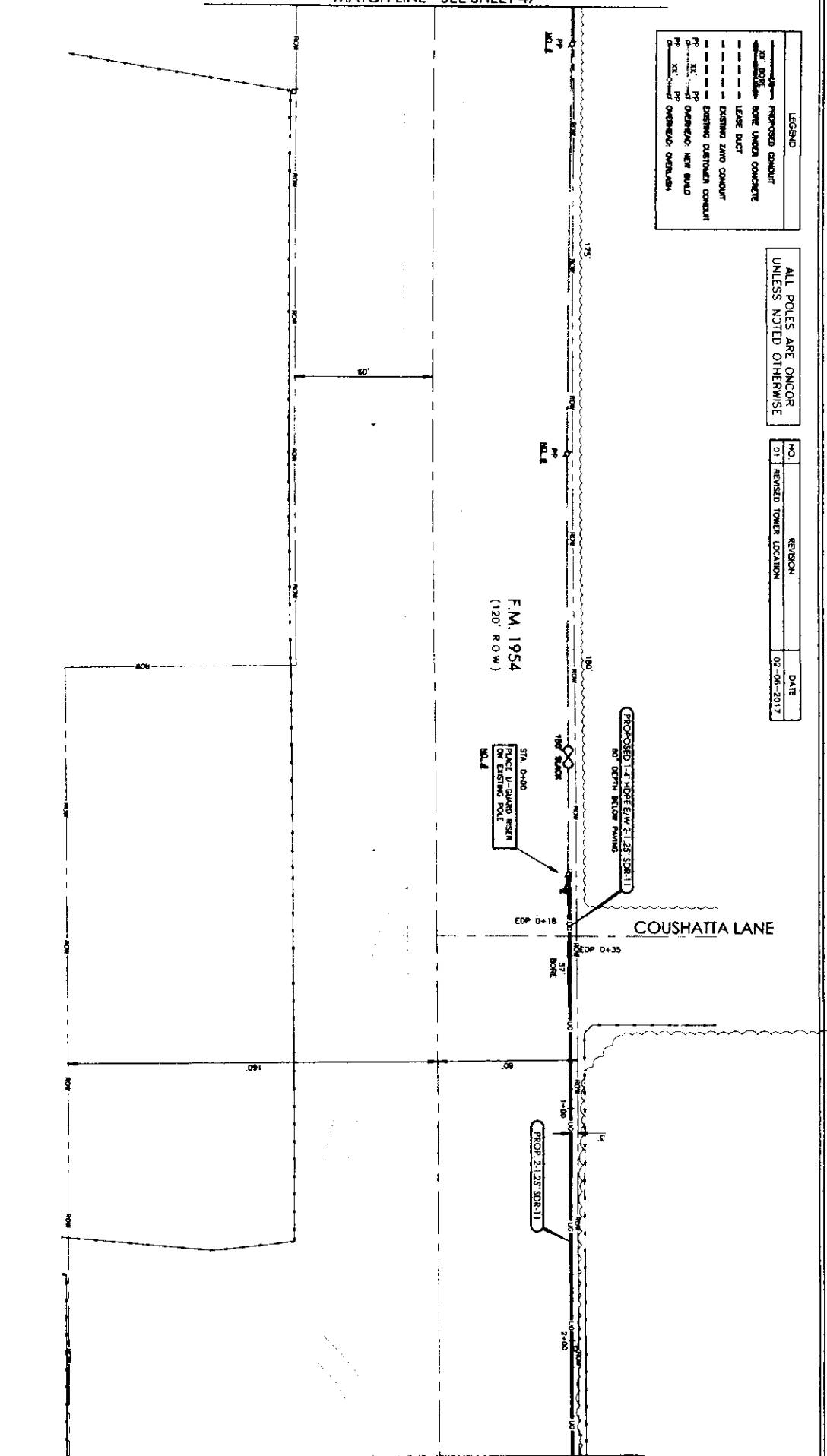
SHEET 47 OF 49

MATCH LINE - SEE SHEET 47

LEGEND	
	PROPOSED CONDUIT
	BORE UNDER CONCRETE
	LEASE DUCT
	EXISTING 2400 CONDUIT
	EXISTING CAST-IN-PLACE CONDUIT
	PROPOSED NEW BUILD
	OVERHEAD OVERHAUL

ALL POLES ARE ON COR  
UNLESS NOTED OTHERWISE

NO.	REVISION	DATE
01	REVISED TOWER LOCATION	02-06-2017



MATCH LINE - SEE SHEET 49

PREPARED BY:

DAVID HENSON 972.470.2113

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	193'	PLACE VAULT	250'	FOC UNDERGROUND	250'
BORE & PLACE CONDUIT	57'	PLACE 30"x60"x48" HANDHOLE	25'	FOC RISER 25 FT	25'
BORE & PLACE STEEL CASING		PLACE 30"x60"x48" HANDHOLE	355'	FOC OVERHEAD	355'
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT	1	FOC OH SLACK LOOP	
R & B CONCRETE PAVEMENT (S7)		PLACE ANCHOR & DOWN GUY		FOC UG SLACK LOOP	
R & B CONCRETE PAVEMENT (S7)		REMOVE STRAND OVERHAUL		FOC TOTAL FOOTAGE	630'
REMOVE POLE CONDUITS	3	REMOVE STRAND NEW BUILD	335'		

NORTH

SHEET 48 OF 49

PROJECT: DA LAKE ARROWHEAD

ADDRESS: 4712 FM 1954

CITY, STATE: CLAY COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'

VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016

Zayo GROUP

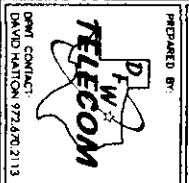
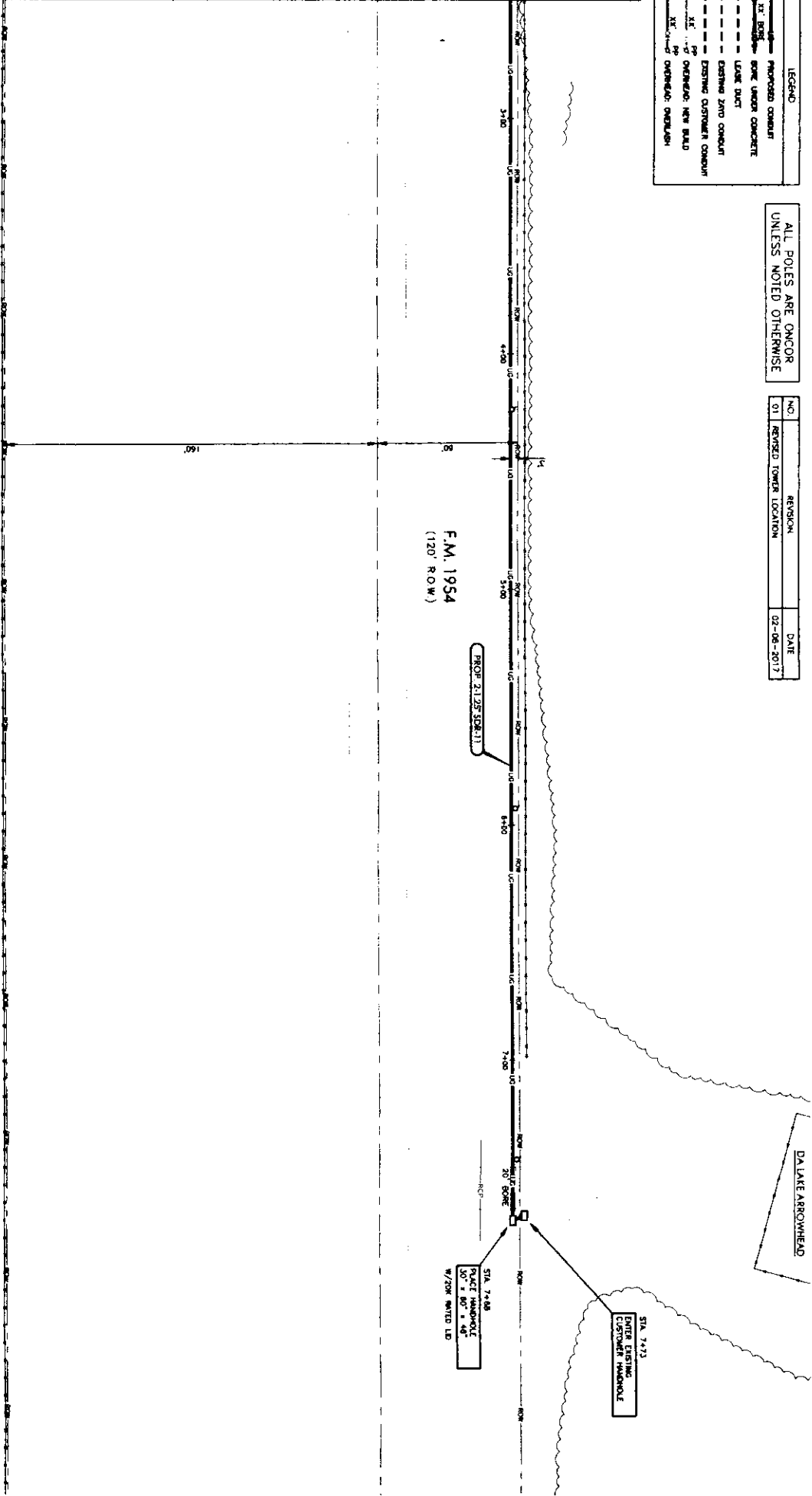
MATCH LINE - SEE SHEET 48

LEGEND

- PROPOSED CONDUIT
- BORE UNDER CONCRETE
- LAYER DUCT
- EXISTING ZND CONDUIT
- EXISTING CUSTOMER CONDUIT
- EXISTING NEW BUILD
- OVERHEAD: OVERLASH

ALL POLES ARE ONCOR  
UNLESS NOTED OTHERWISE

NO.	REVISION	DATE
01	REVISED TOWER LOCATION	02-08-2017



PREPARED BY: \_\_\_\_\_

DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY	DESCRIPTION	QUANTITY
TRENCH & PLACE CONDUIT	498	PLACE WALK	1	FOC UNDERGROUND	318
BORE & PLACE CONDUIT	20'	PLACE 30"x60"x48" HANDHOLE	1	FOC RESER 25 FT	
BORE & PLACE STEEL Casing		PLACE 30"x60"x48" HANDHOLE		FOC OVERHEAD	
PULL THROUGH EXISTING CONDUIT		PLACE U-GUARD RISER - 25 FT		FOC ON SLACK LOOP	100'
R & R CONCRETE SIDEWALK (SF)		PLACE ANCHOR & DOWN CUT		FOC UG SLACK LOOP	100'
R & R CONCRETE PAVEMENT (SF)		ASBUL STRAND OVERLASH		FOC TOTAL FOOTING	618'
ASBUL POLE CONDUITS		ASBUL STRAND NEW BUILD			

NORTH

SHEET 49 OF 49

PROJECT: **DA LAKE ARROWHEAD**

ADDRESS: 4712 FM 1954  
CITY, STATE: CLAY COUNTY, TEXAS

HORIZONTAL SCALE: 1" = 40'  
VERTICAL SCALE: 1" = 10'

DATE: 03-04-2016





John McGregor &lt;jmcgregorpct3@gmail.com&gt;

---

**Re: Clay County - Lake Arrowhead ROW permit application - Revised plans**

4 messages

Dayna LaPoma &lt;dayna.lapoma@dfw-telecom.com&gt;

Wed, Feb 8, 2017 at 9:42 AM

To: John McGregor &lt;jmcgregorpct3@gmail.com&gt;

John,

Please find attached revised plan set for your review and approval. A check was remitted for this permit can you please verify that the amount is accurate with the changes made to the plan set.

Also, can you tell me the earliest date that this can be put on the agenda.

thank you

Dayna LaPoma  
DFW Telecom  
Project Coordinator  
903-560-9090  
dayna.lapoma@dfw-telecom.com



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On Tue, Jan 10, 2017 at 11:00 AM, John McGregor <jmcgregorpct3@gmail.com> wrote:

I was checking if you got my emailed pictures that I sent last week

John McGregor  
Sent from my iPhone

---

**DA Lake Arrowhead.pdf**  
6456K

---

John McGregor <jmcgregorpct3@gmail.com>

Wed, Feb 8, 2017 at 11:22 AM

To: Dayna LaPoma &lt;dayna.lapoma@dfw-telecom.com&gt;

Is your plan to bore under these roads or ditch across them

[Quoted text hidden]

—  
John McGregor  
Clay County Commissioner  
940-781-4779

2/8/2017

Gmail - Re: Clay County - Lake Arrowhead ROW permit application - Revised plans

**Dayna LaPoma** <dayna.lapoma@dfw-telecom.com>

Wed, Feb 8, 2017 at 11:29 AM

To: John McGregor <jmcgregorpct3@gmail.com>

Per the plan set the construction company is to bore under the roads.

Dayna LaPoma  
DFW Telecom  
Project Coordinator  
903-560-9090  
dayna.lapoma@dfw-telecom.com



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[Quoted text hidden]

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**John McGregor** <jmcgregorpct3@gmail.com>  
To: Dayna LaPoma <dayna.lapoma@dfw-telecom.com>

Wed, Feb 8, 2017 at 11:36 AM

Thank you

[Quoted text hidden]