



14

NAVARRO COUNTY ROAD AND BRIDGE DEPARTMENT

NAVARRO COUNTY COURTHOUSE

300 W. 3<sup>RD</sup> AVE.

CORSICANA, TEXAS 75110

APPROVAL FORM FOR UTILITY EASEMENTS

Date: 04/25/2022

Applicant: Barry Phillips

Address: 1347 Omega Rd, Farmers Branch, TX, 75244

Phone #: 918-688-4168

Type of utility construction requested: (pipeline and product, cable and type, utility and type:

Contractor to place 2-1.5" HDPE with 48 FC along SE 3220 at TX 309 for 7680 LF & pull 48 FC for 770 LF.

Name of Utility Company: Zayo

Location of Utility Construction: (location map must be attached) (see attached map)

Attach location map or drawing, description of proposed utility line and appurtenances fully shown with distance of utility lines being replaced or installed in relationship with County Roads. Show on map or drawing the location of any road bore, length of bore and size of encasement that the utility line will be passing through.

Estimated start date of construction: 05/16/2022

Estimated completion date of construction: 08/16/2022

County of Navarro

Specifications for placing utilities within Navarro County Right-Of-Way

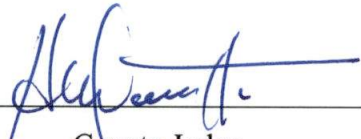
1. In the event it becomes necessary to alter or relocated the utility for which permission is sought, due to widening or improving the county road within the existing road easement at the point or along the route of said utility construction, applicant or its successor, if any, will perform the alteration or relocation at its own cost and expense, and said company will save and hold harmless Navarro County from any claims, or causes of action due to any claims for damages or injuries sustained by any person or property occasioned by its operation under this permit.
2. All road crossings will be bored unless a variance is granted.
3. All road crossings will at a minimum depth of 60" below the lowest existing grade.
4. All parallel utility construction will be a minimum depth of 60" below existing road grade.
5. All right-of-way disturbed by the utility construction will be restored daily to a condition that is as good or better than before construction.
6. In the event construction is delayed or halted by adverse weather conditions, labor stoppages or mechanical difficulties, the company will insure that all ditches are cleaned and will drain as good or better than before construction.
7. The County Commissioner of said Precinct may require the applicant to file a bond for road repairs and damage repairs in the amount the Commissioner determines to cover damage costs for said job. Upon completion of construction at a road crossing or parallel construction in the Right-of-way, contractor will notify the Commissioner so an inspection can be made.
8. A route map of any proposed pipeline together with cross sections shall be submitted with the application. All road crossings shall be located with GPS coordinates.
9. The applicant in consideration of the approval of this request by the Navarro County Commissioners Court does hereby agree, upon completion of the placement of the utilities as set forth in this request, to return the county road, its right-of-way and any improvements or additions to a condition which, in the opinion of the County Commissioner , equals or exceeds the condition in which said county road or right-of-way prior to the time construction started.
10. The applicant shall indemnify, defend, and hold Navarro County harmless from any obligation or claim for damages that may be alleged or any costs or expenses, including but not limited to, reasonable attorneys' fees arising from the applicant's emplacement of the object in the right-of-way which Navarro County may incur, or any claims Navarro County may be legally required to pay resulting from damages caused by the installation contemplated by this agreement. The applicant shall indemnify, defend, and hold Navarro County harmless at any future date for accidental damages to the above ground and/or buried utilities by road working equipment such as motor graders, posthole diggers, shredders, brush cutters, drainage ditch clearing equipment, etc. In the event such damages should occur, the applicant will be notified immediately.

The undersigned agrees that he has read and will abide by all requirements set forth in this form.

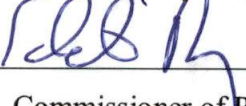
Signature of Applicant: 

Date: 04/25/2022

NAVARRO COUNTY

By:   
County Judge

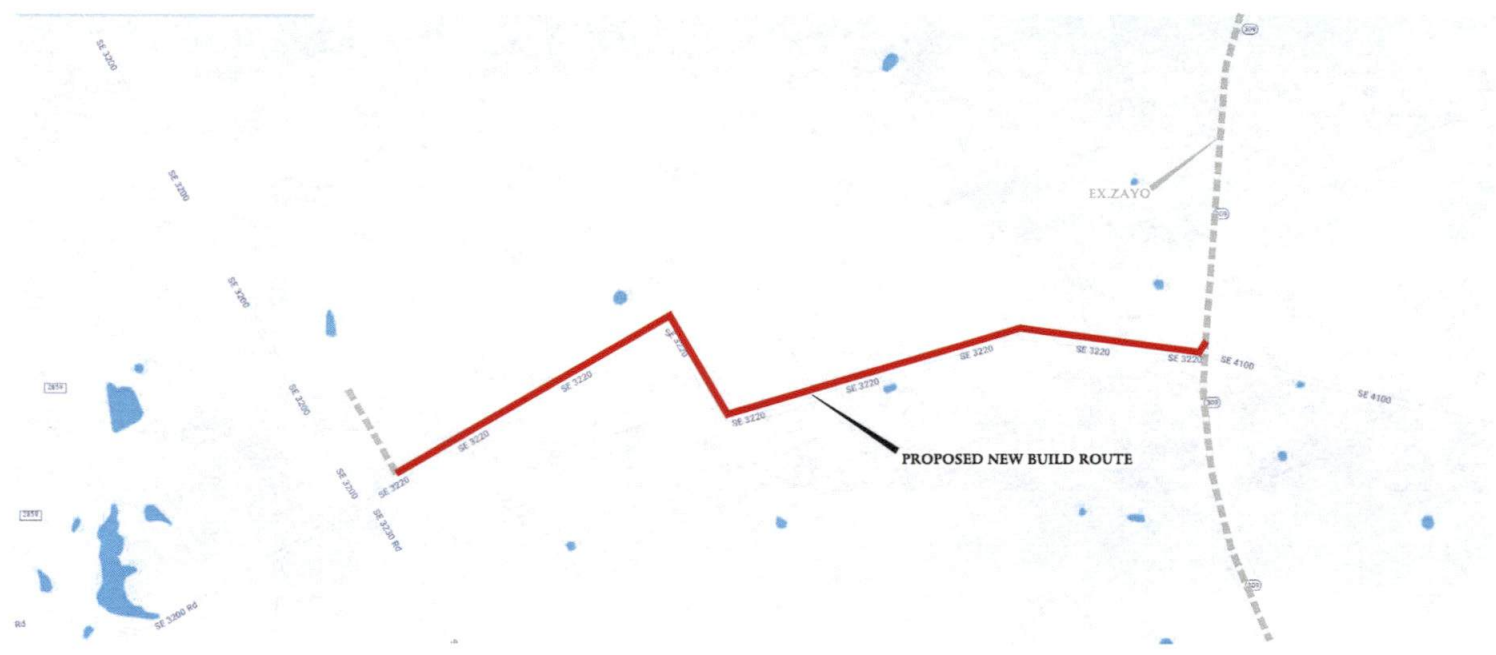
Date: MAY 9, 2022

By:   
Commissioner of Precinct 2

Date: MAY 9, 2022



**SOLAR FARMS**  
**TX-309**  
**KERENS, TEXAS**



PROPOSED NEW BUILD ROUTE

EX.ZAYO

PREPARED BY:  
**TECH Group**  
**& ASSOCIATES**

#22112.CS01



### CONTACT SHEET - DRAWING INDEX

ZAYO CONTACTS	DRAWING INDEX		
	DESCRIPTION	SHEET NAME	FILE NAME
SENIOR PROJECT MANAGER TOMMY CAPPS (817) 665-8401	COVER SHEET	CS	22087CS.dwg
	CONTACT/DRAWING INDEX (THIS SHEET)	CT	22087CT.dwg
	MATERIAL RAKE-OFF SHEET	MR	22087MR.dwg
OSP PROJECT MANAGER	DETAIL SHEETS	DT01	22087DT1.dwg
	GENERAL NOTES	GND1	20319GND1.dwg
	TRAFFIC CONTROL	TFC	20319TFC.dwg
	FIBER SCHEMATIC SHEET	FSD1	20319FSD1.dwg
	OSP/ISP DESIGN SHEETS	PV	22087PV.dwg
BUILDING CONTACTS			
BUILDING CONTACT(S): XXXXX (XXX) XXX-XXXX			
BUILDING ENGINEER(S): XXXXX (XXX) XXX-XXXX			
ENGINEER CONTACTS	PERMITTING AGENCIES		
ENGINEERING FIRM: TECH GROUP & ASSOCIATES, INC. (972) 613-0881 4016 ROWLETT ROAD ROWLETT, TEXAS 75088	TxDOT DALLAS DISTRICT 4777 HIGHWAY US-80 MESQUITE, TEXAS 75150 (214) 320-6234		
ENGINEERING CONTACT: CHARLES MARTINEZ (214) 317-5452			
CONSTRUCTION CONTACTS			
CONSTRUCTION FIRM: FUTURE TELECOM (XXX) XXX-XXXX			
CONSTRUCTION CONTACT: JASON WALKBECK (XXX) XXX-XXXX			
SP LICING FIRM: TO BE DETERMINED (XXX) XXX-XXXX			
* CONTACT 48 HOURS PRIOR TO CONSTRUCTION *			

REV	DESCRIPTION	BY	APVD	DATE






INFORMATION ON THIS DOCUMENT IS PROPRIETARY AND SHALL NOT BE USED, COPIED, REPRODUCED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF OWNER.

PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
FILE:	SOLAR FARMS		
DRAWN	TG&A	DWG NO:	22112CT
APPV		REV	REVDATE
SHEET	APPROVED ORIGINAL DESIG.	DWG DATE	

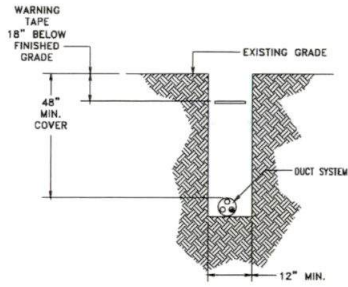


## GENERAL NOTES

APPLICABLE CODES	CABLE VAULT INSTALLATION NOTES:	PROJECT INFORMATION	ZAYO GENERAL NOTES:																																																																											
<p>AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS - LATEST EDITION</p> <p>OCCUPATIONAL SAFETY AND HEALTH STANDARDS - LATEST EDITION</p> <p>MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES</p>	<ol style="list-style-type: none"> <li>1. FOR LOCATION AND ORIENTATION OF CABLE VAULTS, SEE NETWORK ROUTE PLAN.</li> <li>2. ALL OPENINGS, PENETRATIONS AND JOINTS IN CABLE VAULTS SEALED WITH A NON-SHRINK GROUT TO FORM A WATER-TIGHT CABLE VAULT.</li> <li>3. CABLE VAULTS INSTALLED ON A BASE CONSISTING OF CLEAN GRAVEL OR CRUSHED STONE. THE MINIMUM THICKNESS OF THE BASE SHALL BE TWELVE INCHES (12").</li> <li>4. FINISHED SURFACE REPAIRED TO A CONDITION EQUAL TO OR GREATER THAN ORIGINAL CONDITIONS.</li> <li>5. BOTTOM OF EXCAVATION COMPACTED AND LEVELED PRIOR TO CABLE VAULT INSTALLATION.</li> <li>6. PLACE THE VAULT SO THAT THE COVER IS AT THE DESIRED GRADE ELEVATION.</li> </ol>	<p style="text-align: center;">GENERAL COMMENTS</p>	<ol style="list-style-type: none"> <li>1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.</li> <li>2. THE CONTRACTOR SHALL VISIT THE JOB SITE TO REVIEW THE SCOPE OF WORK AND EXISTING JOB SITE CONDITIONS.</li> <li>3. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING A BID. ANY DISCREPANCIES, CONFLICTS, OR OMISSIONS, SHALL BE REPORTED TO FLOOR DANIEL BEFORE PROCEEDING WITH THE WORK.</li> <li>4. THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE BY CONTRACTOR TO HERB AND EXISTING CONSTRUCTION, STRUCTURE, LANDSCAPING, OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE ROW OWNER AND FLOOR DANIEL AT THE EXPENSE OF THE CONTRACTOR.</li> <li>5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR, AND SHALL REPLACE OR REMEDY, ANY FAULTY, IMPROPER, OR DEFECTIVE MATERIALS OR WORKMANSHIP OR ANY DAMAGE WHICH SHALL APPEAR WITHIN ONE YEAR AFTER THE COMPLETION AND ACCEPTANCE OF THE WORK UNDER THIS CONTRACT.</li> <li>6. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A REGULAR BASIS, AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION UP TO COMPLETION OF WORK.</li> <li>7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES ADJACENT TO OR CROSSING THE NETWORK ROUTE, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY CONTRACTOR IN CONJUNCTION WITH THE EXECUTION OF WORK.</li> <li>8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE JOB IS IN PROGRESS AND UNTIL THE JOB IS COMPLETED.</li> <li>9. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER, AND TOILET FACILITIES AS REQUIRED BY THE CITY OR GOVERNING AGENCY.</li> <li>10. THE CONTRACTOR SHALL NOTIFY FLOOR DANIEL IF DETAILS ARE CONSIDERED UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.</li> <li>11. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, FLOOR DANIEL SHALL BE NOTIFIED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.</li> <li>12. ALL GRADES SHOWN AS PROPOSED FINISHED GRADES INCLUDE SURFACE TREATMENTS SUCH AS TOPSOIL OR PAVEMENT. MAKE ALLOWANCES DURING EARTHWORK DISTURBANCE/RESTORATION FOR THESE SURFACE TREATMENTS.</li> <li>13. ALL WORK SHOWN ON THE OSP DRAWINGS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION 02000 - FIC OSP - CONDUIT SYSTEMS.</li> </ol>																																																																											
<p style="text-align: center;">CITY GENERAL NOTES:</p> <p>GENERAL NOTE SPECIFICATIONS FOR THE CITY OF KERENS</p> <ol style="list-style-type: none"> <li>1. ALL IMPROVEMENTS SUCH AS PAVEMENT, CURB AND GUTTERS, WALKS, DRAINAGE DITCHES, SHRUBS, GRASS SOO, ETC. WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.</li> <li>2. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM FIELD OBSERVATIONS AND AVAILABLE RECORDS BUT ARE NOT NECESSARILY EXACT. UTILITIES WILL BE VERIFIED IN ADVANCE OF TRENCHING SO THAT CHANGES IN ALIGNMENT AND OR GRADES MAY BE MADE IN CASES OF CONFLICTS.</li> <li>3. 1 1/2" DEEP SAW CUTS WILL BE MADE AT LEAST 12" OUTSIDE OF DITCH LINES PRIOR TO REPLACEMENT OF CONCRETE OR ASPHALT PAVEMENT, WALKS AND DRIVES. PAVEMENT, WALKS AND DRIVE RESTORATION WILL BE OF THE SAME TYPE AS REMOVE, PER CITY OF KERENS RESTORATION REQUIREMENTS.</li> <li>4. ALL PAVEMENT, WALKS AND DRIVE CONCRETE REPLACEMENT IS TO BE OF A MIX DESIGN.</li> <li>5. THE CONSTRUCTION SITE IS TO BE SUITABLE LIGHTED AND BARRICADED AT NIGHT.</li> <li>6. ALL PAVEMENT CUTS MUST BE A MIN. 36" AND 100% RESTORED WITH A FLOWABLE TYPE BACKFILL, SUCH AS DRAFIL, OR CUSTOM CRETE'S EXPANDABLE BACKFILL ETC., WITH AN APPROPRIATE COMPRESSION STRENGTH OF 100 P.S.I. EXAMPLES OF CUTS INCLUDE STREETS, DRIVEWAYS, SIDEWALKS, ALLEYS, ETC. ALL CONCRETE PAVEMENT CUT RESTORAL SEAMS MUST BE SEALED WITH HOT ASPHALT MIX.</li> <li>7. THE FOLLOWING DIVISIONS WITHIN THE CITY OF KERENS WILL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION SO THAT LOCATES MAY BE MARKED.              WATER/SEWER.....(903)398-2971              WATER/SEWER.....(903)398-2971              LONE STAR GAS.....(888) 286-6700              ONE CALL LOCATE, AT&amp;T, MCI, SWB, TELEPORT,              MFS, GTE, WILTEL, TU.ELECTRIC, TCI, SPRINT 1-800-395-0440</li> <li>8. UNLESS OTHERWISE NOTED, ALL CONDUIT TO BE BURIED TO A MINIMUM OF 36" COVER.</li> <li>9. GROUT FILL VOIDS AROUND ENCASEMENT PIPES, PLACE CONCRETE BULKHEADS AT EACH END OF BORE PIPES.</li> <li>10. CONTACT THE TEXAS HIGHWAY DEPARTMENT PRIOR TO CONSTRUCTION. IF PERMIT APPROVAL IS REQUIRED PRIOR TO CONSTRUCTION.</li> </ol>		<div style="text-align: center;">  <p>CALL BEFORE YOU DIG 1-800-DIG-TESS 72 HOURS NOTICE REQUIRED</p> </div>																																																																												
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">REV</th> <th style="width: 40%;">DESCRIPTION</th> <th style="width: 10%;">BY</th> <th style="width: 10%;">APVD</th> <th style="width: 10%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV	DESCRIPTION	BY	APVD	DATE																																																			<div style="display: flex; justify-content: space-between; align-items: center;">   </div> <p style="font-size: 8px; margin-top: 5px;">INFORMATION ON THIS DOCUMENT IS PROPRIETARY AND SHALL NOT BE LOANED, COPIED, REPRODUCED OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF CARRIER</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <td style="width: 20%;">PROJECT:</td> <td style="width: 30%;">TX-309 KERENS, TEXAS</td> <td style="width: 20%;">PROJECT CODE:</td> <td style="width: 30%;"> </td> </tr> <tr> <td>STL:</td> <td colspan="3">SOLAR FARMS</td> </tr> <tr> <td>DRAWN:</td> <td>TG&amp;A</td> <td>DWG NO.:</td> <td>22112GN</td> </tr> <tr> <td>APPV:</td> <td> </td> <td>SHEET:</td> <td>APPROVED ORIGINAL TITLE</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td>DATE DATE</td> </tr> </table>	PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:		STL:	SOLAR FARMS			DRAWN:	TG&A	DWG NO.:	22112GN	APPV:		SHEET:	APPROVED ORIGINAL TITLE				DATE DATE
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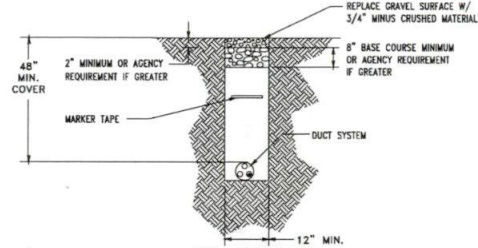
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# TYPICAL TRENCH DETAILS



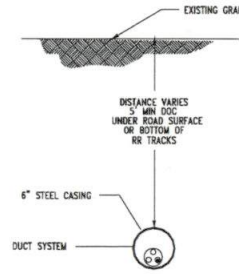
NOTE: BACKFILL WITH NATIVE ROCK FREE MATERIAL OR AS DIRECTED BY CITY. COMPACT TO DENSITY REQUIRED BY CITY.

TYPICAL TRENCH IN EARTH  
N.T.S.

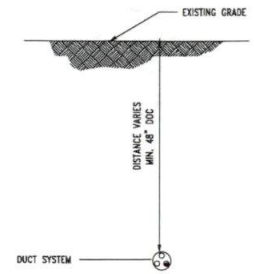


NOTE: BACKFILL WITH NATIVE ROCK FREE MATERIAL OR AS DIRECTED BY CITY. COMPACT TO 95%.

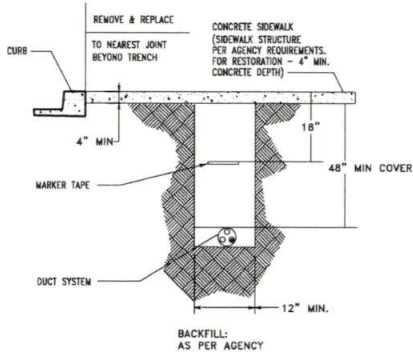
TYPICAL TRENCH IN GRAVEL  
N.T.S.



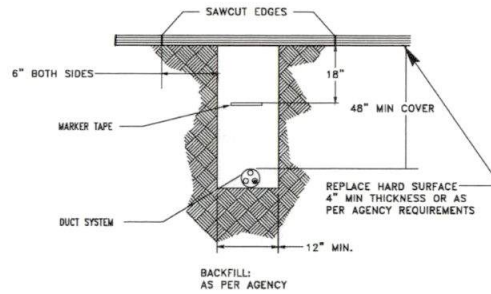
TYPICAL JACK AND BORE  
N.T.S.



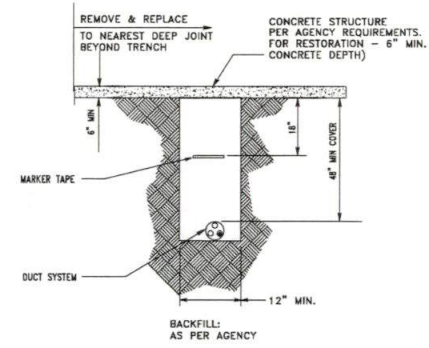
TYPICAL DIRECTIONAL BORE  
N.T.S.



CONCRETE SIDEWALK RESTORATION  
N.T.S.



ASPHALT PAVEMENT RESTORATION  
N.T.S.



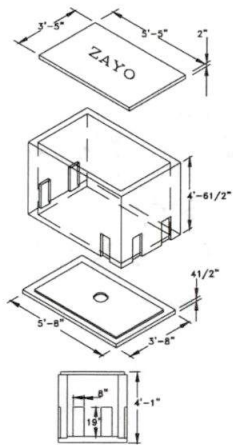
CONCRETE PAVEMENT RESTORATION  
N.T.S.

REV	DESCRIPTION	BY	APVD	DATE



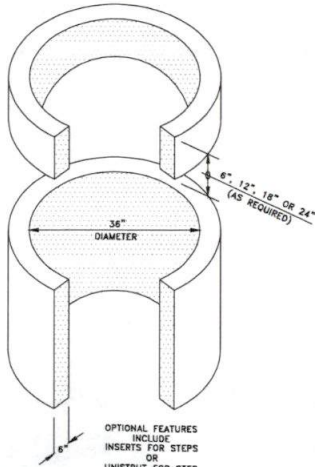
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TITLE:	SOLAR FARMS		
DRAWN:	T.C.&A.	DWG NO.:	#22112DT01
APPV:		APPROV ORIGINAL ISSUE:	

# MANHOLE & HANDHOLE DETAILS

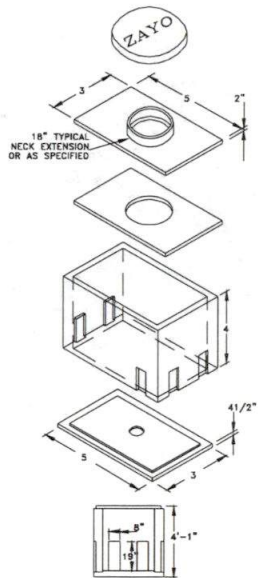


3' x 5' x 4'-0" PRE-CAST HANDHOLE

APPROXIMATE NECK EXTENSION WEIGHTS  
 6" 450 LBS.  
 12" 850 LBS.  
 18" 1250 LBS.  
 24" 1650 LBS.

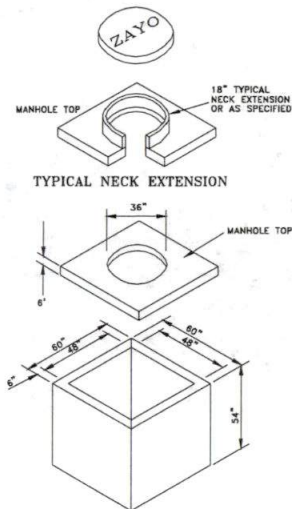


OPTIONAL FEATURES INCLUDE  
 INSERTS FOR STEPS  
 OR  
 UNISTRUT FOR STEP MOUNTING

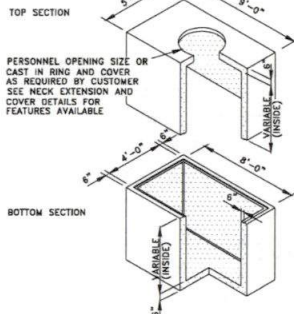


3' x 5' x 4' PRE-CAST MANHOLE

ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4500 psi.  
 REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60, A706 GRADE 60 OR A4497 GRADE 70. BAR BENDING AND PLACEMENT SHALL COMPLY WITH THE LATEST ACI 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 THE TOP AT ANY ELEVATION BETWEEN FINISHED GRADE AND 5'-0" BELOW GRADE.  
 THE STRUCTURE SHALL BE PLACED ON A COMPACTED GRANULAR BASE TO INSURE UNIFORM DISTRIBUTION OF SOIL PRESSURES.  
 SPECIAL DESIGNS BASED ON OTHER LOADINGS OR DEEPER INSTALLATION DEPTHS ARE LOADINGS OR KNOCKOUTS, OR PIPE OPENINGS CAN BE PROVIDED IN THE SIZE AND LOCATIONS REQUIRED.  
 INSERTS, PULLING IRONS OR SUMPS CAN BE SUPPLIED AS REQUESTED



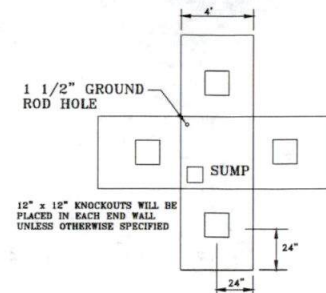
4' x 4' x 4' PRE-CAST MANHOLE  
 6" WALLS - 6" ROOF  
 48" HEADROOM



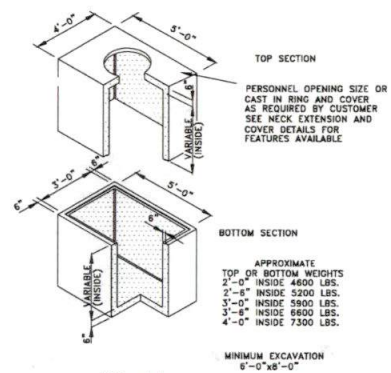
48-M  
 4'-0" x 8'-0" QUIKSET  
 2-PIECE MANHOLE

APPROXIMATE TOP OR BOTTOM WEIGHTS  
 2'-0" INSIDE 7300 LBS.  
 2'-6" INSIDE 8300 LBS.  
 3'-0" INSIDE 9200 LBS.  
 3'-6" INSIDE 10300 LBS.  
 4'-0" INSIDE 11200 LBS.

MINIMUM EXCAVATION  
 7'-0" x 11'-0"



12' x 12' KNOCKOUTS WILL BE PLACED IN EACH END WALL UNLESS OTHERWISE SPECIFIED



35-M  
 3'-0" x 5'-0" QUIKSET  
 2-PIECE MANHOLE

APPROXIMATE TOP OR BOTTOM WEIGHTS  
 2'-0" INSIDE 4600 LBS.  
 2'-6" INSIDE 5200 LBS.  
 3'-0" INSIDE 5800 LBS.  
 3'-6" INSIDE 6600 LBS.  
 4'-0" INSIDE 7300 LBS.

MINIMUM EXCAVATION  
 6'-0" x 8'-0"

REV	DESCRIPTION	BY	APVD	DATE



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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
FILE:	SOLAR FARMS		
DRAWN:	TC&A	DATE:	22112.DT02
APPROVED:	APPV	DATE:	
REV:		REV:	



## MATERIAL RAKE-OFF SHEET

### OUTSIDE PLANT

DESCRIPTION	QUANTITY	UNITS	NOTES\COMMENTS
DIRECTIONAL BORE	7,070'	L.F.	
2-1.25" H.D.P.E.	15,340'	L.F.	
48 FIBER CABLE	8,840'	L.F.	
PULL-THRU	770'	L.F.	
3'X5'X4'	5	EACH	

### INSIDE PLANT

DESCRIPTION	QUANTITY	UNITS	NOTES\COMMENTS

REV	DESCRIPTION	BY	APVD	DATE

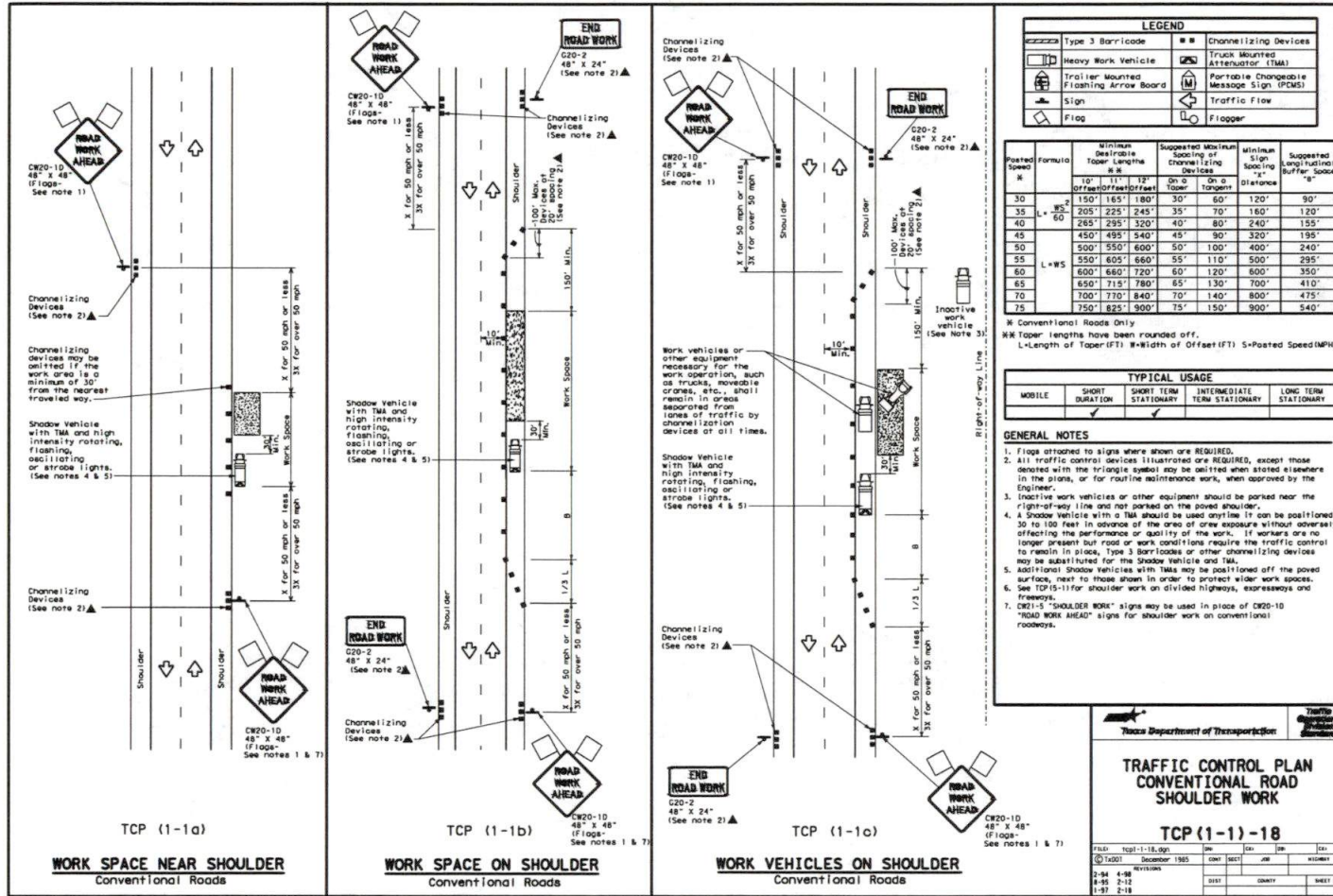


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 DISCLOSED IN WHOLE OR IN PART  
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PROJECT: TX-309 KERENS, TEXAS		PROJECT CODE:	
SITE: SOLAR FARMS			
DRAWN: APPV	T&A	DWG NO: 22112MR	REV
SHEET	APPROVED ORIGINAL ISSUE	DWG DATE	



US-309  
KERENS, TEXAS



**LEGEND**

	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed	Formula	Minimum Taper Lengths (ft)	Suggested Maximum Spacing of Channelizing Devices (ft)	Minimum Sign Spacing (ft)	Suggested Longitudinal Buffer Space (ft)
30	L = WS	150' 165' 180'	30' 60'	120'	90'
35	L = WS	205' 225' 245'	35' 70'	160'	120'
40	L = WS	265' 295' 320'	40' 80'	240'	155'
45	L = WS	450' 495' 540'	45' 90'	320'	195'
50	L = WS	500' 550' 600'	50' 100'	400'	240'
55	L = WS	550' 605' 660'	55' 110'	500'	295'
60	L = WS	600' 660' 720'	60' 120'	600'	350'
65	L = WS	650' 715' 780'	65' 130'	700'	410'
70	L = WS	700' 770' 840'	70' 140'	800'	475'
75	L = WS	750' 825' 900'	75' 150'	900'	540'

W Conventional Roads Only  
 W Taper lengths have been rounded off.  
 L Length of Taper (FT) W Width of Offset (FT) S Posted Speed (MPH)

**TYPICAL USAGE**

MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- GENERAL NOTES**
- Flags attached to signs where shown are REQUIRED.
  - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
  - Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
  - A Shadow Vehicle with a TMA should be used on the line. It can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
  - Additional Shadow Vehicles with TMAs may be positioned off the paved surfaces, next to those shown in order to protect wider work spaces.
  - See TCE-11 for shoulder work on divided highways, expressways and freeways.
  - CP20-10 "SHOULDER WORK" signs may be used in place of CP20-10 "ROAD WORK AHEAD" signs for shoulder work on conventional roadways.

Texas Department of Transportation  
 Traffic Control Plan  
 CONVENTIONAL ROAD  
 SHOULDER WORK  
**TCP (1-1)-18**

FILED	1801-1-18, 000	NOV	18	AM	18
REVISED	December 1985	CONT	SECT	JOB	WISDOM
3-34	4-98				
8-85	7-12				
1-37	2-18				
1-83					

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**DISCLAIMER:**  
 The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TCE-11 for any purpose whatsoever. TCE-11 assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

REV	DESCRIPTION	BY	APVD	DATE

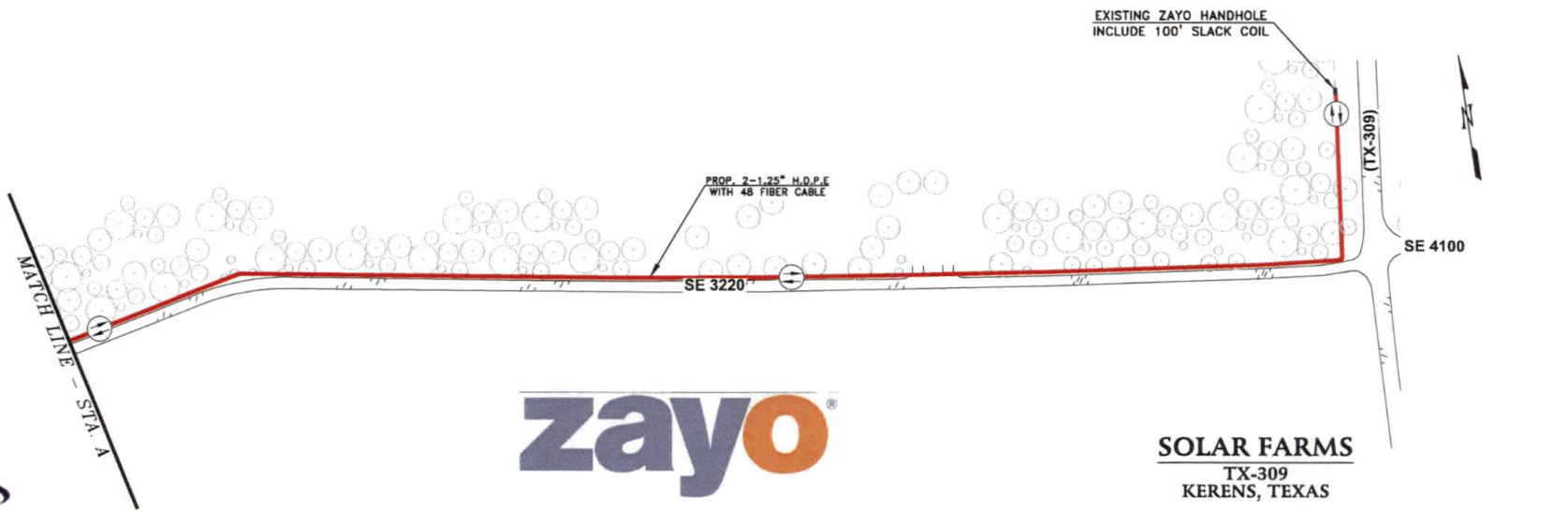
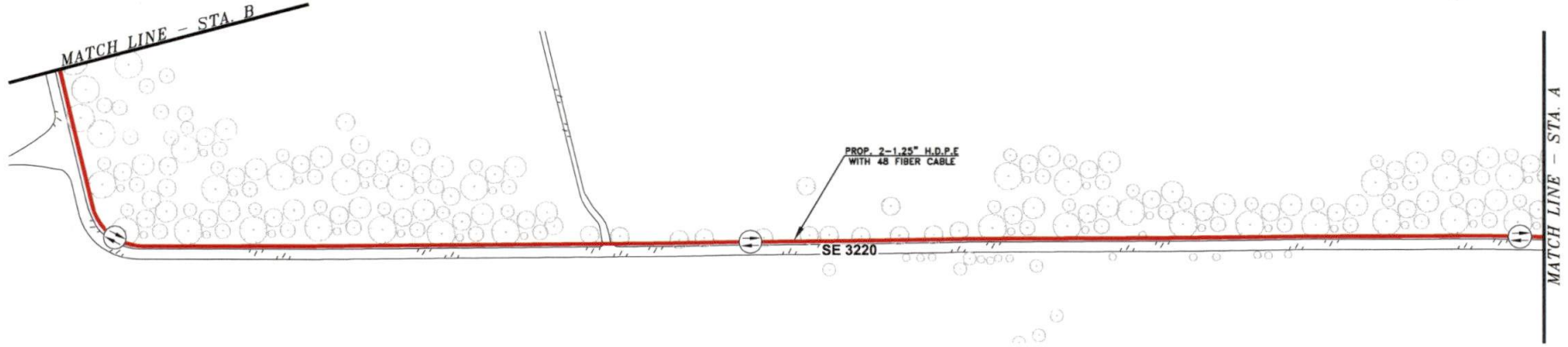


PROJECT	TX-309 KERENS, TEXAS	PROJECT CODE	
WBS	SOLAR FARMS		
DRAWN	TG&A	REV NO.	22112TFC7
APPV		APPROV ORIGINAL DATE	DATE DATE

C:\Land Projects\22112-Zayo\22112fs.dwg, 4/25/2022 8:55:27 AM, Andres P

**NOTE:**  
TOTAL ZAYO U.G. = 4,709'  
TOTAL ZAYO 48 FIBER CABLE = 4,809'

# FIBER SCHEMATIC SHEET



**SOLAR FARMS**  
TX-309  
KERENS, TEXAS

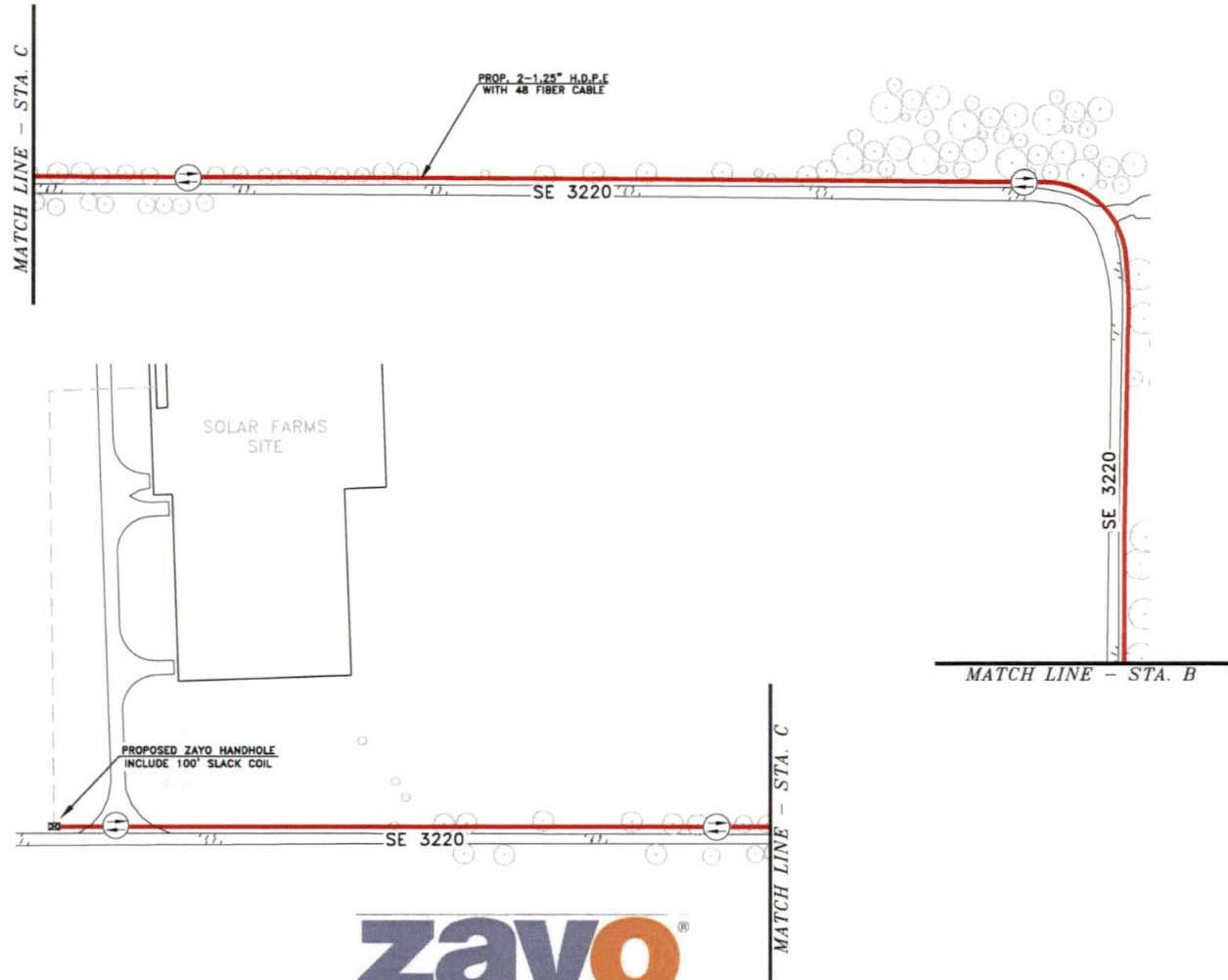
PREPARED BY:  
**TECH GROUP**  
& ASSOCIATES

#22112FS01

C:\Land Projects\22112-Zayo\22112fs.dwg, 4/25/2022 8:55:30 AM, Andres P

NOTE:  
TOTAL ZAYO U.G. = 3,012'  
TOTAL ZAYO 48 FIBER CABLE = 3,112'

# FIBER SCHEMATIC SHEET



PREPARED BY:  
**TECH GROUP**  
& ASSOCIATES



**SOLAR FARMS**  
TX-309  
KERENS, TEXAS

#22112FS02

**NOTE**

UTILITY & ROW REPRESENTED ON PLANS ARE BASED ON RECORDS, NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309  
KERENS, TEXAS**



SCALE 1"=40'

MATCH LINE - STA 2+00

STA 0+00 - 2+00

CONTRACTOR TO PLACE 2-1.5" H.D.P.E. WITH 48 FIBER CABLE

STA 0+00

CONTRACTOR TO LOCATE AND INTERCEPT EXISTING ZAYO DUCT WITH 3'x5'x4' HANDHOLE \*PROPOSED SPLICE POINT\*

CONTRACTOR TO REPOSITION ACTIVE CABLE SLACK FOR CONDUIT LOWERING PROCESS

GRASS AREA

STA. 2+53 POWERPOLE

(TX-309)

GRASS AREA

**ESTIMATED SHEET TOTALS**

DIR. BORE	200'
1.25" H.D.P.E.	400'
48 FIBER CABLE	200'
3'x5'x4' HH	1
R/R SIDEWALK	-



**CAUTION:**

CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



INFORMATION ON THIS DOCUMENT IS UNCLASSIFIED AND SHALL NOT BE DECLASSIFIED, REPRODUCED OR DISSEMINATED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF ZAYO

PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TG&A	DWG NO:	22112.PV01
REV			

NOTE

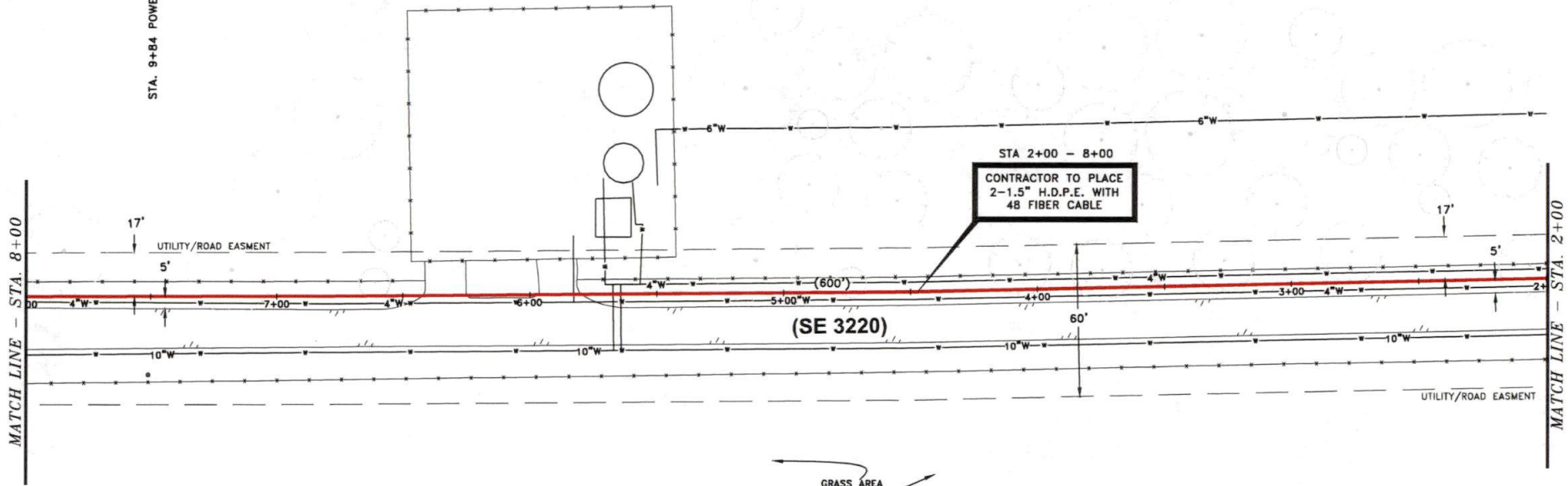
UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309**  
KERENS, TEXAS



SCALE 1"=40'

STA. 9+84 POWERPOLE



CONTRACTOR TO PLACE  
2-1.5" H.D.P.E. WITH  
48 FIBER CABLE

(SE 3220)

GRASS AREA

ESTIMATED SHEET TOTALS

DIR. BORE	600'
1.25" H.D.P.E.	1,200'
48 FIBER CABLE	600'
3'x5'x4' HH	-
R/R SIDEWALK	-



CAUTION:

CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TC&A	DWG NO.:	22112.PV02
REV:			

NOTE

UTILITY & ROW REPRESENTED ON PLANS ARE BASED ON RECORDS NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309**  
KERENS, TEXAS



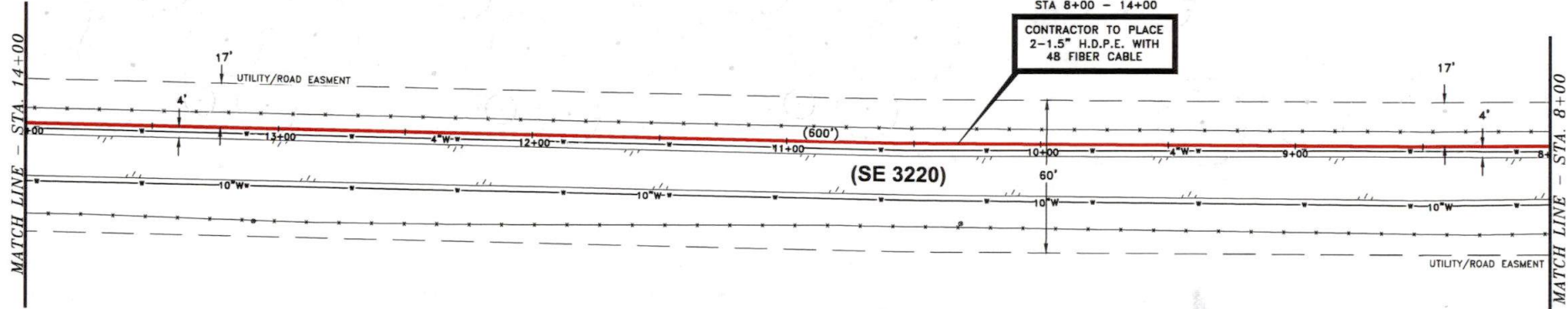
SCALE 1"=40'

STA. 15+42 POWERPOLE

STA. 12+63 POWERPOLE

STA 8+00 - 14+00

CONTRACTOR TO PLACE  
2-1.5" H.D.P.E. WITH  
48 FIBER CABLE



ESTIMATED SHEET TOTALS

DIR. BORE	800'
1.25" H.D.P.E.	1,200'
48 FIBER CABLE	800'
3' x 6' x 4' HH	-
R/R SIDEWALK	-



**CAUTION:**  
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TG&A	DWG NO:	22112.PV03
REV:		REV:	

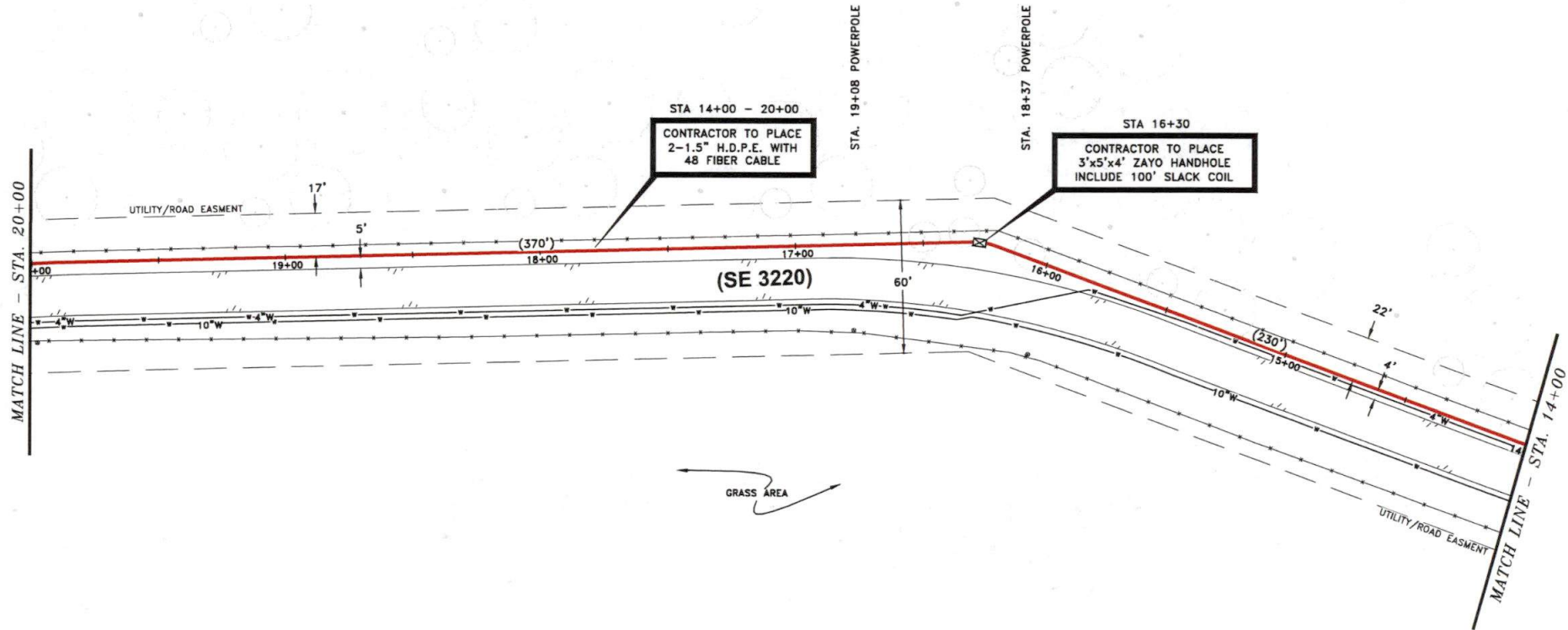
NOTE

UTILITY & ROW REPRESENTED ON PLANS ARE BASED ON RECORDS NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309**  
KERENS, TEXAS



SCALE 1"=40'



GRASS AREA

ESTIMATED SHEET TOTALS

DIR. BORE	800'
1.25" H.D.P.E.	1,200'
48 FIBER CABLE	700'
3'x5'x4' HH	1
R/R SIDEWALK	-



**CAUTION:**  
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TG&A	DWG NO.:	22112.PV04
REV:			

NOTE

UTILITY E.R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309**  
KERENS, TEXAS



SCALE 1"=40'

STA. 25+46 POWERPOLE

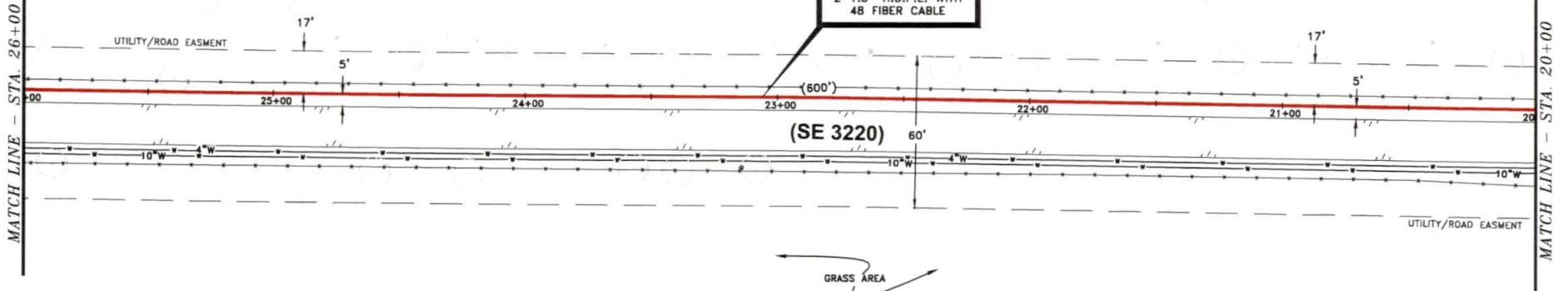
GRASS AREA

STA 20+00 - 26+00

CONTRACTOR TO PLACE  
2-1.5" H.D.P.E. WITH  
48 FIBER CABLE

(SE 3220)

GRASS AREA



ESTIMATED SHEET TOTALS

DIR. BORE	800'
1.25" H.D.P.E.	1,200'
48 FIBER CABLE	800'
3' x 6' x 4' HH	-
R/R SIDEWALK	-



CAUTION:

CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TG&A	APP NO:	22112.PV05
REV:		REV:	



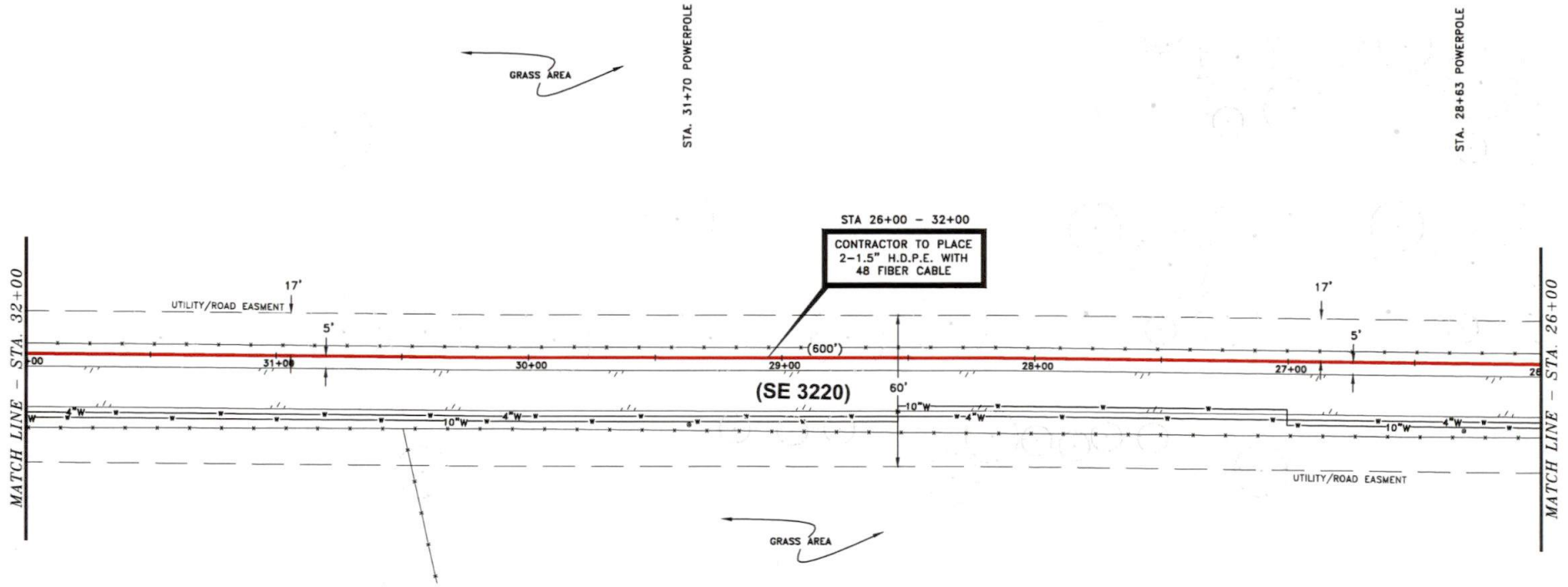
NOTE

UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309**  
KERENS, TEXAS



SCALE 1"=40'



ESTIMATED SHEET TOTALS

DIR. BORE	800'
1.25" H.D.P.E.	1,200'
48 FIBER CABLE	800'
3' x 6' x 4' HH	-
R/R SIDEWALK	-



CAUTION:

CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TG&A	DWG NO.:	22112.FV06
REV		REV	

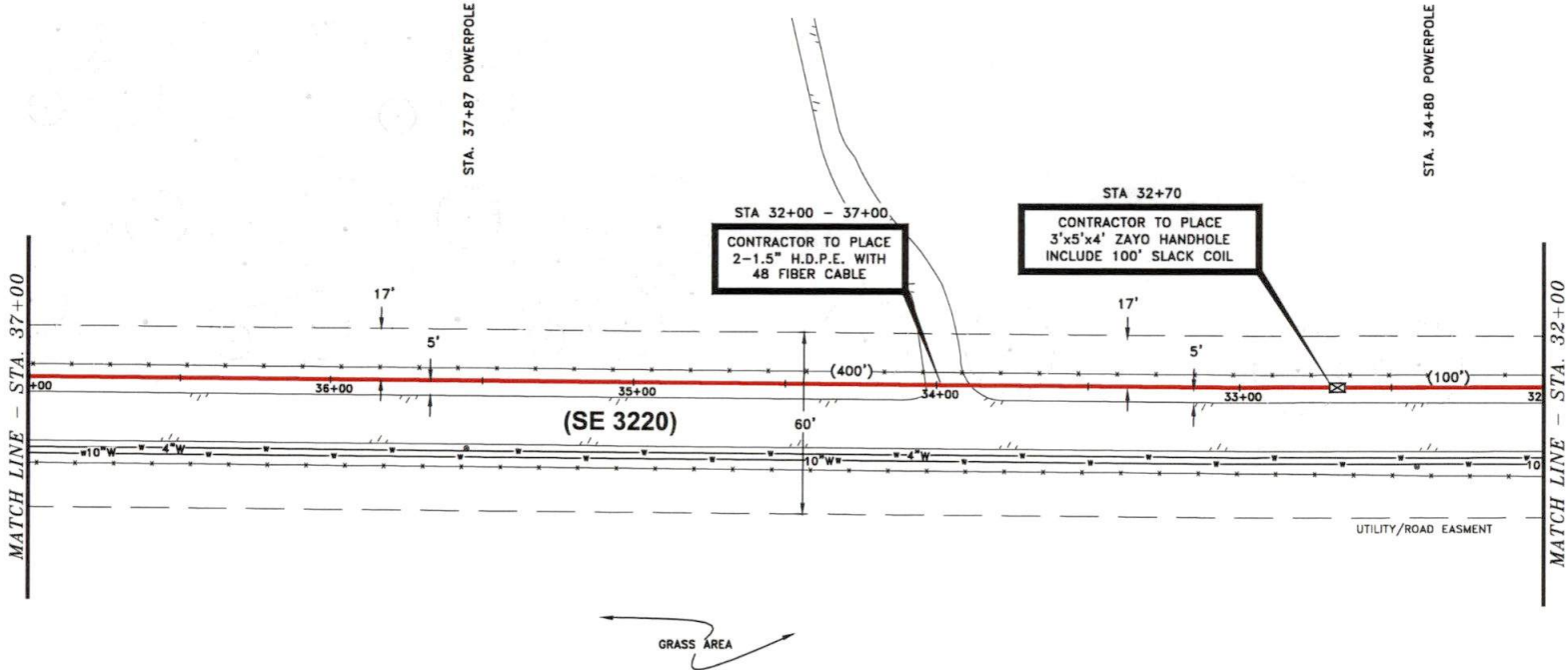
NOTE

UTILITY & ROW REPRESENTED ON PLANS ARE BASED ON RECORDS NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309**  
KERENS, TEXAS



SCALE 1"=40'



ESTIMATED SHEET TOTALS

DIR. BORE	500'
1.25" H.D.P.E.	1,000'
48 FIBER CABLE	800'
3'x5'x4' HH	1
R/R SIDEWALK	-



**CAUTION:**  
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE

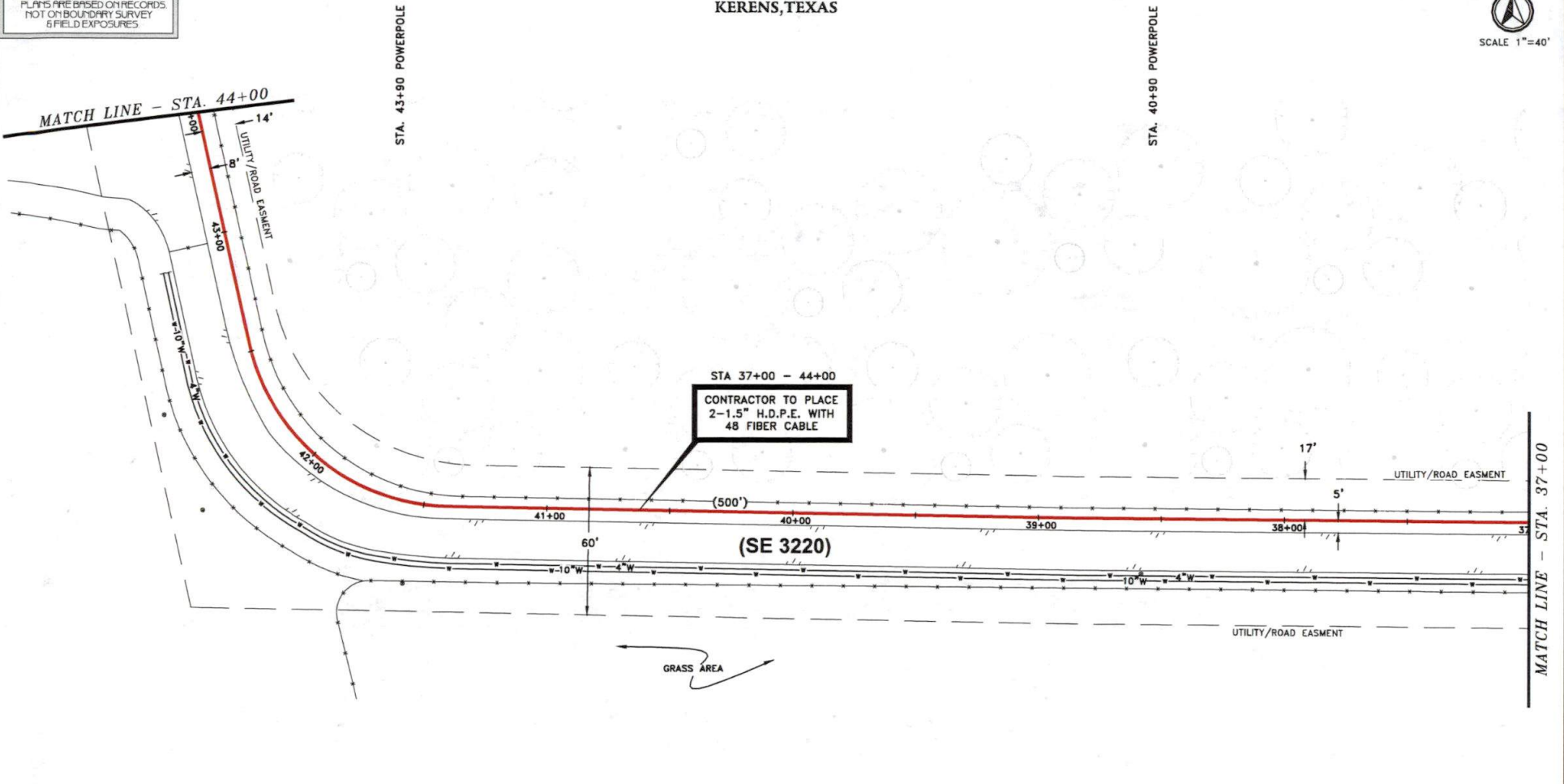
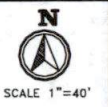


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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TG&A	DWG NO.:	22112.FV07
REV:		REV:	

NOTE  
 UTILITY & ROW REPRESENTED ON  
 PLANS ARE BASED ON RECORDS  
 NOT ON BOUNDARY SURVEY  
 & FIELD EXPOSURES

**TX-309**  
**KERENS, TEXAS**



ESTIMATED  
 SHEET TOTALS

DIR. BORE	700'
1.25" H.D.P.E.	1,400'
48 FIBER CABLE	700'
3'x5'x4' HH	-
R/R SIDEWALK	-
	-
	-
	-



**CAUTION:**  
 CONTRACTOR TO LOCATE &  
 VERIFY ALL EXISTING UTILITIES  
 PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



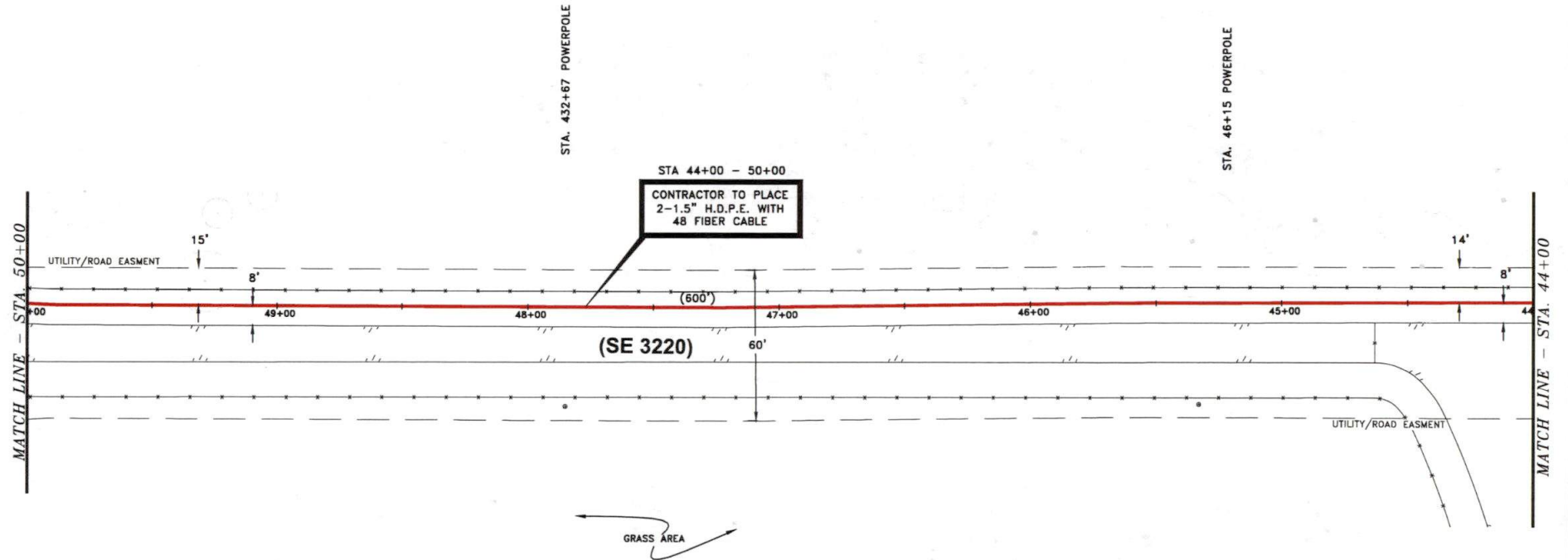
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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TC&A	DWG NO.:	22112.PV08
REV:		REV:	

NOTE

UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS, NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309**  
KERENS, TEXAS



ESTIMATED SHEET TOTALS

DIR. BORE	600'
1.25" H.D.P.E.	1,200'
48 FIBER CABLE	600'
3'x5'x4' HH	-
R/R SIDEWALK	-



CAUTION:

CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN	TG&A	DWG NO:	22112.PV09
REV		REV	

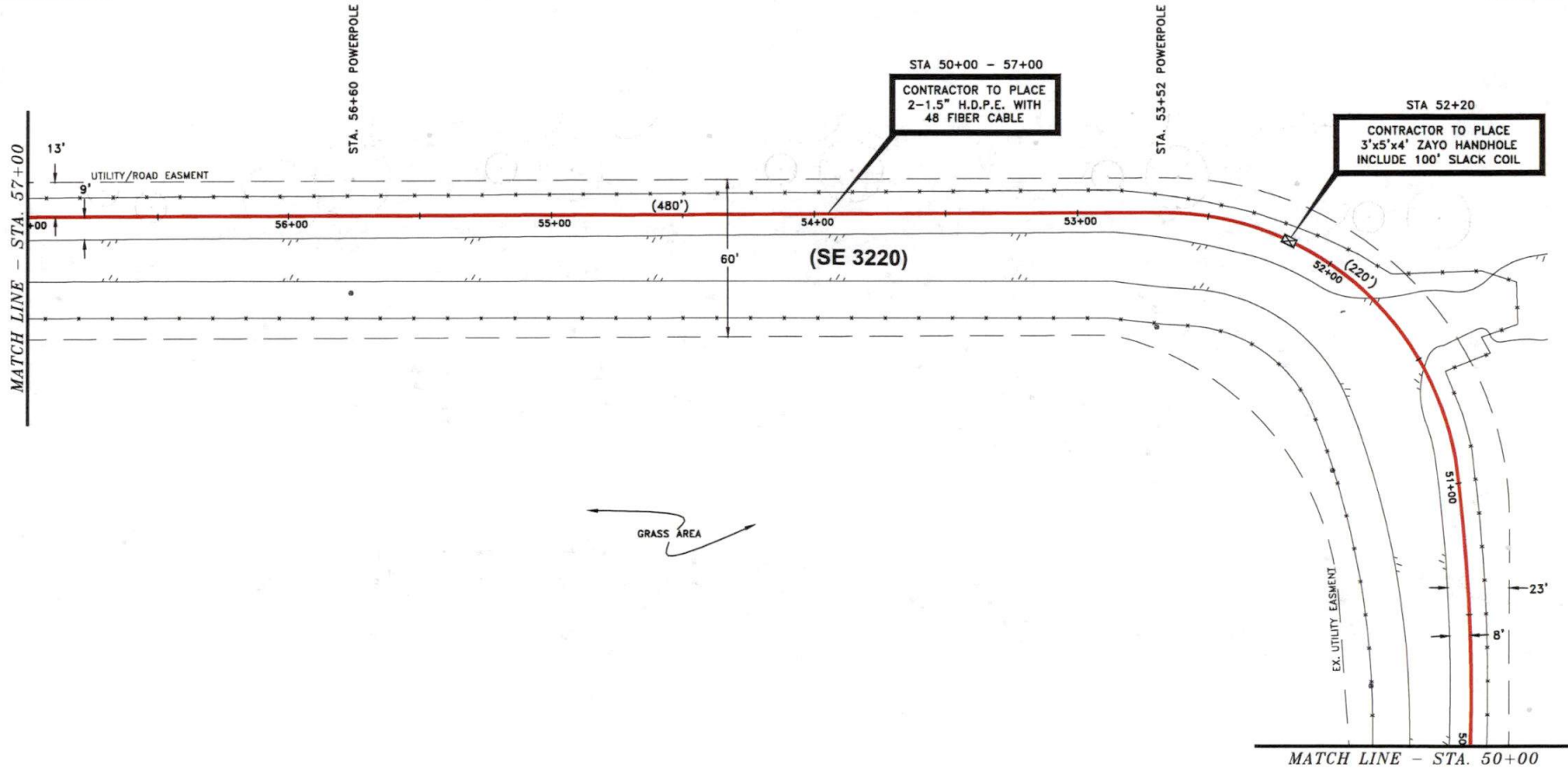
NOTE

UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309**  
KERENS, TEXAS



SCALE 1"=40'



ESTIMATED SHEET TOTALS

DIR. BORE	700'
1.25" H.D.P.E.	1,400'
48 FIBER CABLE	800'
3'x5'x4' HH	1
R/R SIDEWALK	-



**CAUTION:**  
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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PROJECT	TX-309 KERENS, TEXAS	PROJECT CODE	
TITLE	SOLAR FARMS		
DRAWN	TG&A	DWG NO.	22112.PV10
REV		REV	

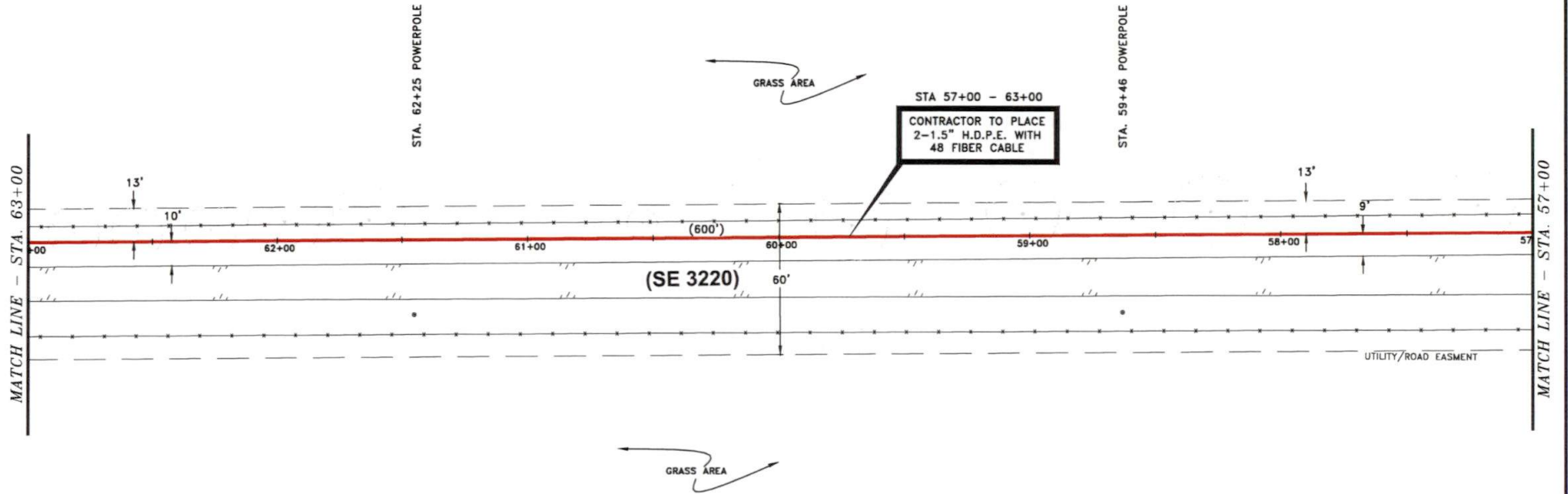
NOTE

UTILITY R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309**  
KERENS, TEXAS



SCALE 1"=40'



ESTIMATED SHEET TOTALS

DIR. BORE	600'
1.25" H.D.P.E.	1,200'
48 FIBER CABLE	600'
3'x5'x4' HH	-
R/R SIDEWALK	-



**CAUTION:**  
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TC&A	DWG NO:	22112.PV11
REV:			

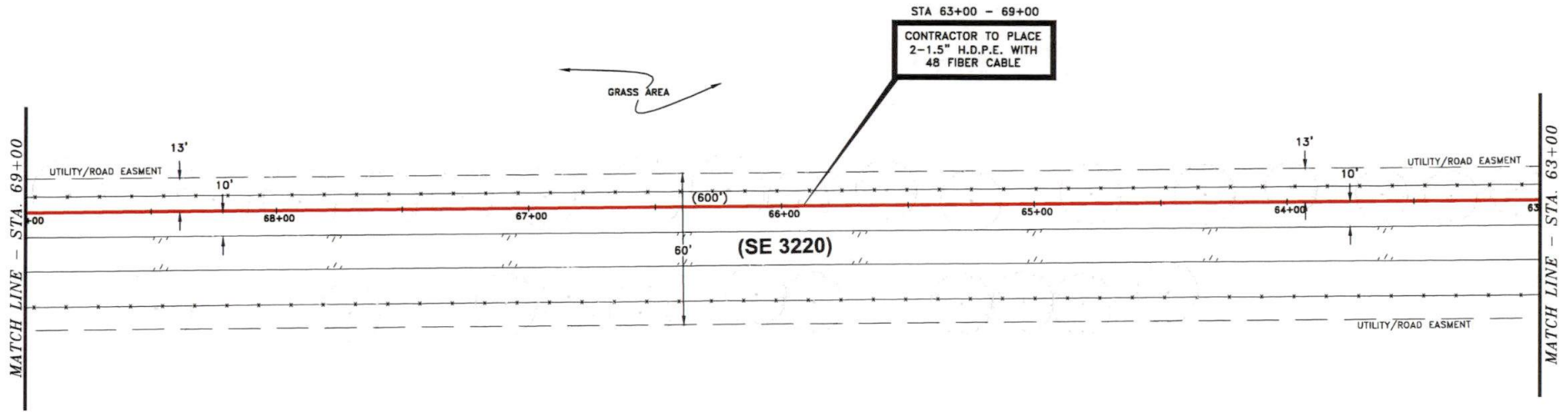
NOTE

UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309**  
KERENS, TEXAS



SCALE 1"=40'



ESTIMATED SHEET TOTALS

DIR. BORE	600'
1.25" H.D.P.E.	1,200'
48 FIBER CABLE	600'
3'x5'x4' HH	-
R/R SIDEWALK	-



**CAUTION:**  
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN	TG&A	DWG NO:	22112.PV12
REV		REV	

INFORMATION ON THE INTEGRITY OF PROPRIETARY AND SHALL NOT BE LOANED, COPIED, REPRODUCED, OR DISCLOSED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF CARRIER

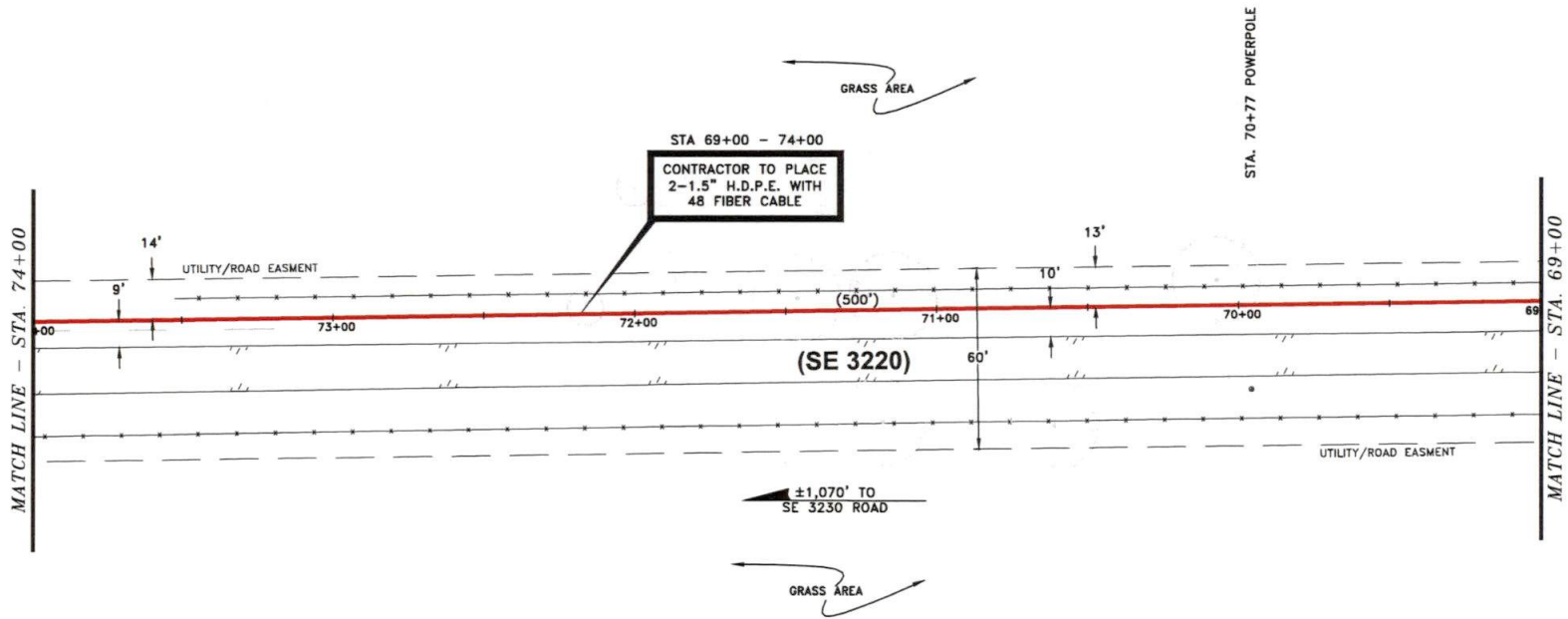
**NOTE**

UTILITY & ROW REPRESENTED ON PLANS ARE BASED ON RECORDS, NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309  
KERENS, TEXAS**



SCALE 1"=40'



**ESTIMATED SHEET TOTALS**

DIR. BORE	500'
1.25" H.D.P.E.	1,000'
48 FIBER CABLE	500'
3'x5'x4' HH	-
R/R SIDEWALK	-



**CAUTION:**  
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TG&A	DWG NO.:	22112.PV13
REV:		REV:	



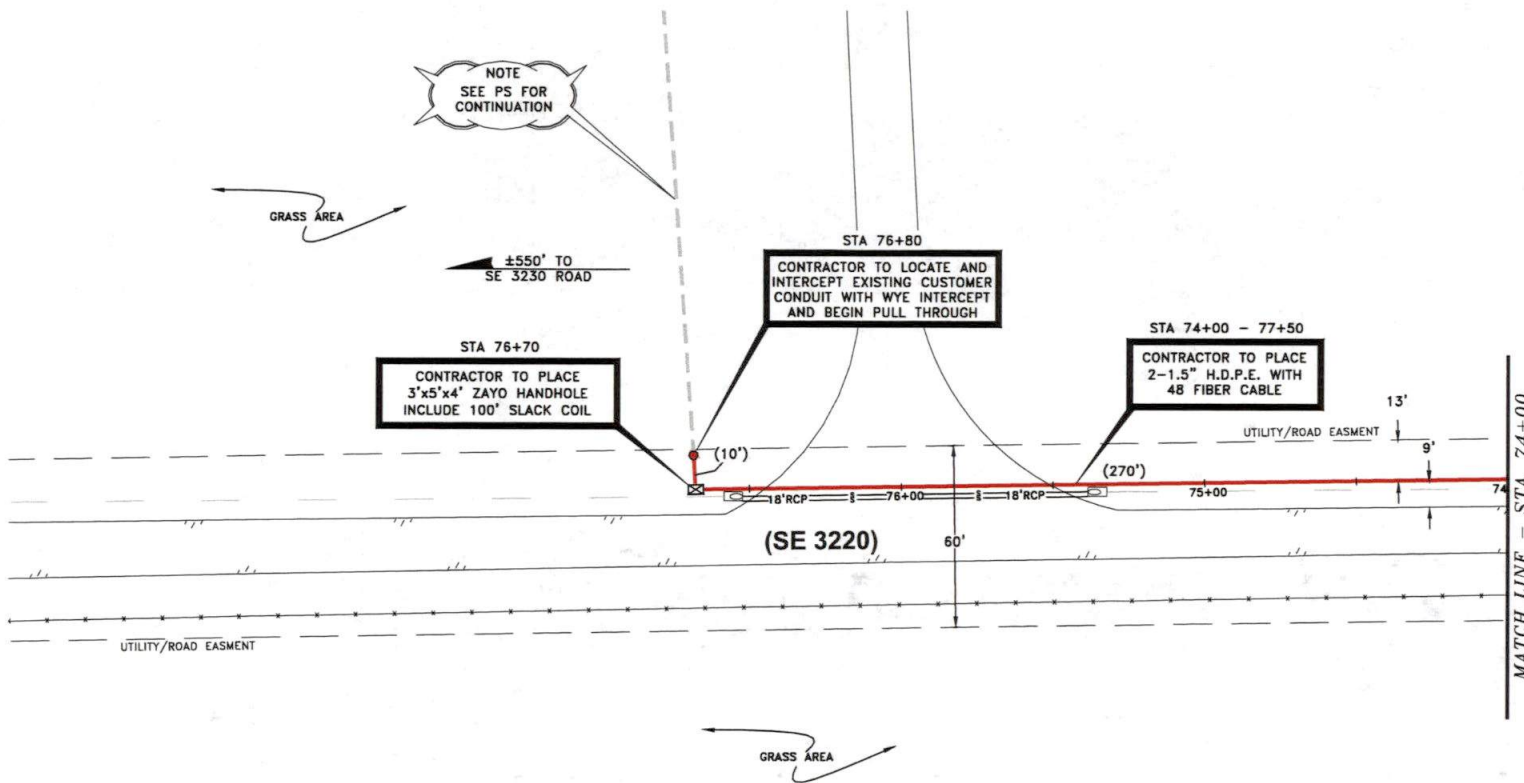
NOTE

UTILITY & R.O.W. REPRESENTED ON PLANS ARE BASED ON RECORDS, NOT ON BOUNDARY SURVEY & FIELD EXPOSURES.

**TX-309**  
KERENS, TEXAS



SCALE 1"=40'



NOTE  
SEE PS FOR CONTINUATION

GRASS AREA

±550' TO  
SE 3230 ROAD

STA 76+70  
CONTRACTOR TO PLACE  
3'x5'x4' ZAYO HANDHOLE  
INCLUDE 100' SLACK COIL

STA 76+80  
CONTRACTOR TO LOCATE AND  
INTERCEPT EXISTING CUSTOMER  
CONDUIT WITH WYE INTERCEPT  
AND BEGIN PULL THROUGH

STA 74+00 - 77+50  
CONTRACTOR TO PLACE  
2-1.5\" H.D.P.E. WITH  
48 FIBER CABLE

(SE 3220)

GRASS AREA

MATCH LINE - STA. 74+00

ESTIMATED SHEET TOTALS

DIR. BORE	270'
1.25" H.D.P.E.	540'
48 FIBER CABLE	370'
3'x5'x4' HH	1
R/R SIDEWALK	-



**CAUTION:**  
CONTRACTOR TO LOCATE &  
VERIFY ALL EXISTING UTILITIES  
PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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PROJECT:	TX-309 KERENS, TEXAS	PROJECT CODE:	
TITLE:	SOLAR FARMS		
DRAWN:	TG&A	APP NO.:	22112.PV13
REV:		REV:	

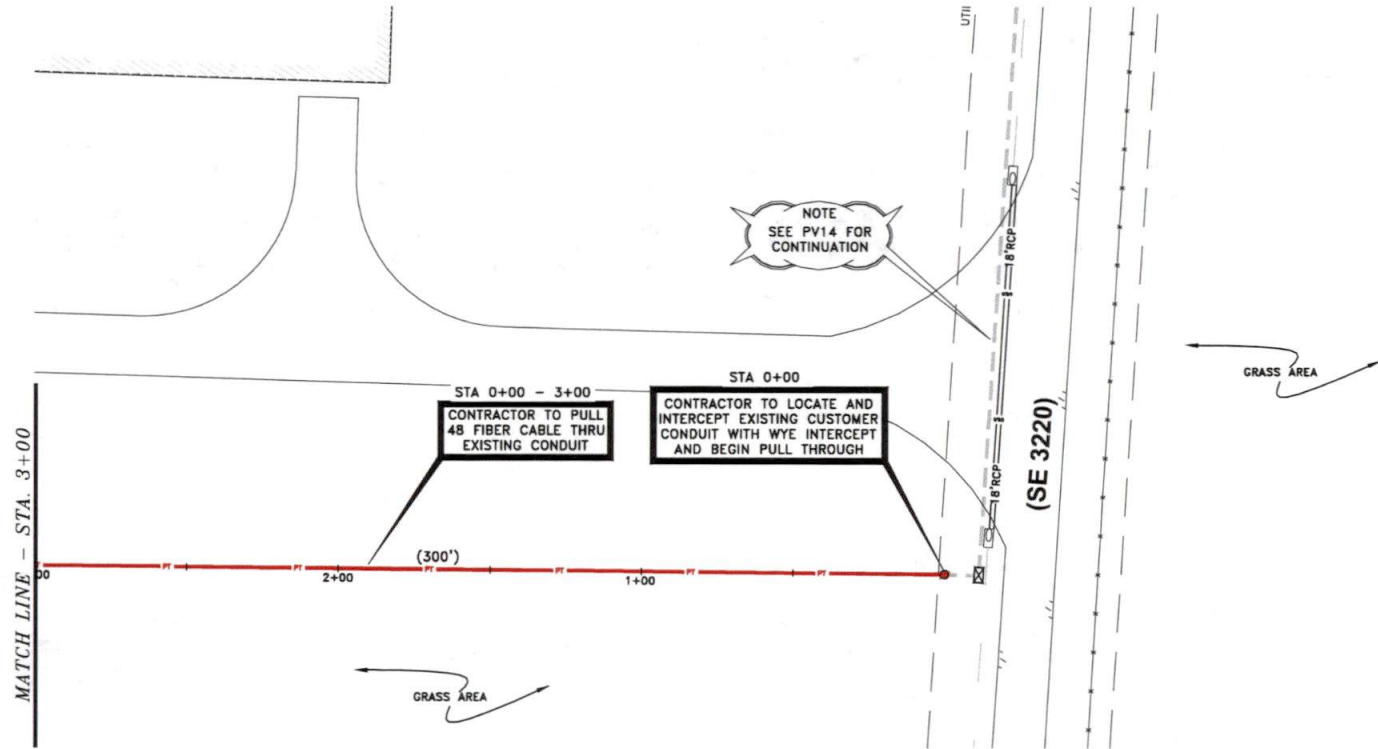
**NOTE**

UTILITY & ROW REPRESENTED ON PLANS ARE BASED ON RECORDS NOT ON BOUNDARY SURVEY & FIELD EXPOSURES

**TX-309  
KERENS, TEXAS**



SCALE 1"=40'



**ESTIMATED SHEET TOTALS**

DIR. BORE	-
1.25" H.D.P.E.	-
48 FIBER CABLE	300'
3'x5'x4' HH	-
PULL-THRU	300'



**CAUTION:**  
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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TITLE:	SOLAR FARMS		
DRAWN:	TC&A	DWG NO.:	22112.FV13
REV:		REV:	

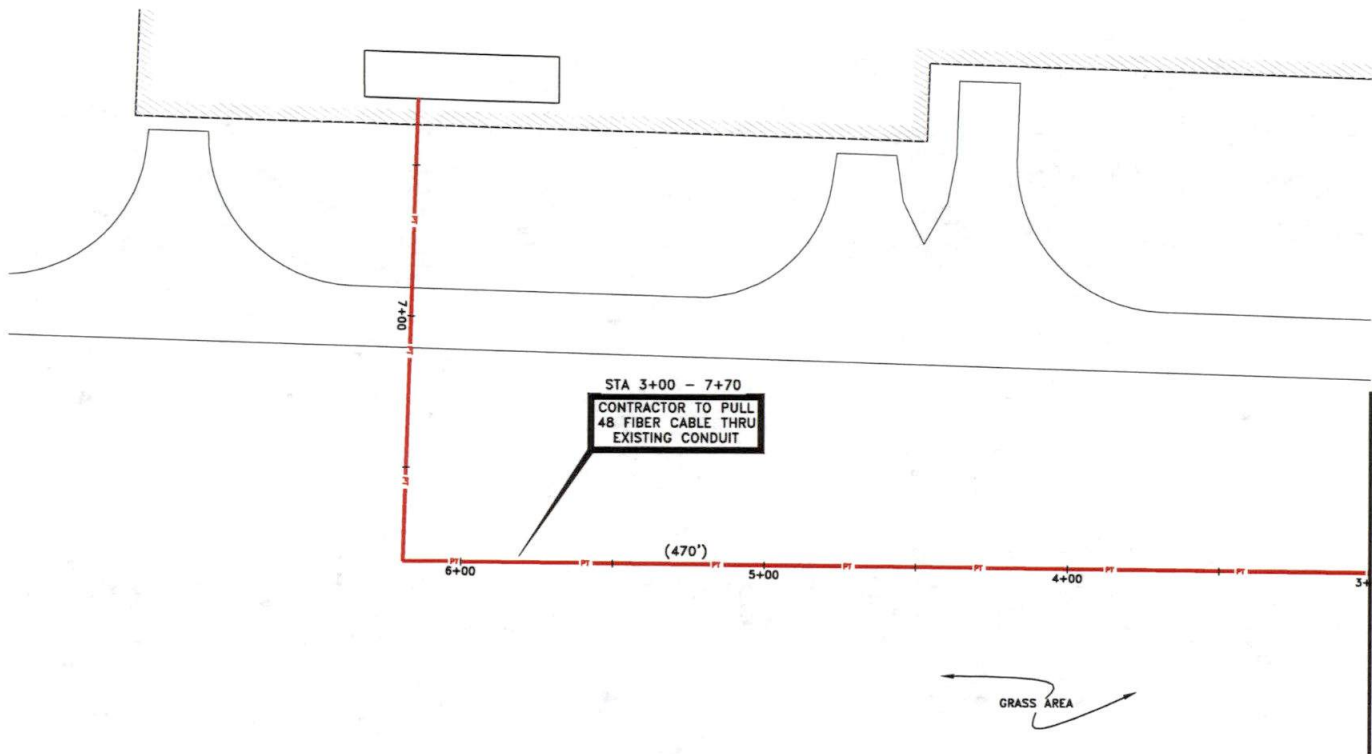
NOTE

UTILITY 6 ROW REPRESENTED ON PLANS ARE BASED ON RECORDS, NOT ON BOUNDARY SURVEY & FIELD EXPOSURES.

**TX-309**  
KERENS, TEXAS



SCALE 1"=40'



ESTIMATED SHEET TOTALS

DIR. BORE	-
1.25" H.D.P.E.	-
48 FIBER CABLE	470'
3'x5'x4' HH	-
PULL-THRU	470'



**CAUTION:**  
CONTRACTOR TO LOCATE & VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

REV	DESCRIPTION	BY	APVD	DATE



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