

May 9, 2019

Mercy Rushing Mineola City Hall 300 Greenville Highway Mineola, TX 75773

<u>via email</u>

RE: City of Mineola Utility Infrastructure Improvements for Sanderson Farms KSA Project No. MN.160 Contract Work Acceptance

Dear Mercy:

The Contractor has completed all work for the above referenced project. KSA has reviewed the work and has verified the work's for conformance to the Contract requirements. To close out the City's contract with Duplichain Contractors, LLC. of Alto, Texas. The following actions are recommended:

- Approval of Change Order No. 2 (Reconciliatory) This change order reduces the total contract price by \$13,260.00.
- Approval of Contractor's final pay estimate with retainage reduced to 0%. The final payment amount is \$58,971.59. The final contract amount for the completed project is \$589,715.90.
- Approval of the Certificate of Construction Completion.

Please return executed copies of the change order, final pay estimate, and Certificate of Construction Completion so we can forward these documents to the grant administrator. Enclosed for your records is a copy of the Contractor's affidavit for the project and Record Drawings.

Sincerely,

KSA Engineers, Inc.

Jereny R. Ori, P.E. Project Manager

JRO/ss

Enclosures

	Grant Recipiont	Construct	ion Contra	ct Cha	ange Orde	r		A50)5
NA34G	Contract No.: 72170	52	_ Change Orde	r No.:	Select: 2 Region:	City ETCOG	County	_	
Contra	ctor:		En	gineer:					
100 Elk Alto, T	hain Contractors, Inc. shart St. X 75925		KS 68 Tyl	A Engine 71 Oak H ler, TX 7	eers, Inc. Hill Blvd. 5703				
Select C	Change Order Type(s): 🔀 Change	to Existing Line	eltems 🗌 N	ew Item:	s Requested	Chan	ge in Contrac	t Duration	
Grant re	cipient is requesting Texas Depart	ment of Agricul	lture review to c	letermin	e eligibility of c	hange ord	er expenses.		
Change	es to Existing Line Items (Items fr	om original bio	d or added in p	revious	change order	ONLY)			
1 00	Item Description	Original Qty.	Proposed Qty.	UOM	Unit Price	ΔQty.	Change in (Contract Price	
1.08	Filter Fabric Fence	1,360	0	LF	\$3.50	-1,360	(\$4,760.00)		anne a
1.10	Foundation Material for Trench	302	14	CY	\$10.00	-288	(\$2,880.00)		
2.03	Temporary Bypass Pumping	1	0	LS	\$1,000.00	-1	(\$1,000.00)		
2.09	18-in PS 115 PVC Gravity Sewer	14	0	LF	\$330.00	-14	(\$4,620.00)	2	
manage taby					Contract Chang	e Sub-Total	(\$13,260.00)		100
Justifica	ition for Change								
					Increase	De	crease	No Chang	e
1. Effect	of this change on scope of work:							X	
2. Effect	on operation and maintenance cos	its:							
					Yes	No N		Not Applical	ble
3. Will this Change Order change the number of beneficiaries or TxCDBG contract Performance Statement Exhibit A?									
which ma condition	ay affect the project's impact, such ay affect the project's impact, such as discovered during actual constru	es or environm as concealed o action?	ental condition r unexpected	s		1			
5. Is the T	CEQ clearance still valid?				\boxtimes	1			
5. Are oth	ner TxCDBG contractual special cor	dition clearanc	es still valid?		\boxtimes	1			
. If new i	tems are included that were not in	cluded in the co	ompetitive bid,	have					

Change Order No.: 2

Change Order Summary				
Original Contract Price:	\$605,975.90	Original Contract End Date:		
Net Previous Change Order(s):	\$0.00	Net change of previous Change Orders (days):		
This Net Change Order:	(\$13,260.00)	Increase/Decrease of this Change Order (days):		
New Contract Price:	\$592,715.90	Change Order Contract End Date		
Cumulative % Change:	-2.188%			

NOTE: Change orders for an increase of more than 25% will be rejected. The State of Texas considers a change in the construction contract price of greater than 25% to be non-competitive, as other potential bidders did not have the opportunity to bid on the true scope of the project during the procurement process. Grant Recipient must rebid project in the event of an increase of 25% or more.

Grant Recipient Approval (F	EQUIRED)			
	Authorized Signature		Date	
	Authorized	d Signatory's Name and Title		
ngineer's Recommendatio	n			
	Q MC	2	5/6/2019	
	VEngineer's Signature		Date	
		Engineer's Name		
Contractor's Authorization				
	MAAAA)	11-	972-52-5- <u>1</u>
(Maal		5/6/19	
/	Contractor's Signature		Date	
	Contr	ractor's Name and Title		
T	o receive an email conv of the T		formation below	
	Jame	Povide contact in	Email	
			LIIIdii	
	For	TDA office use only	·	-
his Net Change Order:	(\$13,260.00)	Increase/decrease of th	is Change Order (days):	
let Change Order Approved:		Increase/decrease of th	is Change Order Approved:	
pproved Contract Amount:		Approved Contract Time:		
lotes:	-			
	Contract Specialist Signature		Date	
			This form required as of Septem	ber 1, 2016
rant Paciniants City of Minasla	Contract Specialist Signature		Date This form required as of Septe	m

arant Recipient: City of Mineola

Contract No.: 7217052

Change Order No.: 2 All previous versions no longer valid.

Director Signature (optional)	
	Date

PROGRESS ESTIMATE KSA 6781 OAK HILL BLVD. TYLER, TX 75703

Estimate N	No.: 7				Notice to Procee Contract Time:	ed Date:	March 150	9, 2018 Days
Data	January 15, 2010				% Complete (Tin	ne)	20	8%
Dale. Drojoct:	January 15, 2019	a Farms			% Complete (\$)		10	160
Project.					Project No.		IVIIN	.160
Contrac	tor: F10111. 7/25/16 10. 4/12/	19						
Addross	100 Elkbart Alto TX 75025				FREVIOUS FAIlv	152 718 70	LD #10	
Amount	f Contract as Awardod:	·			#1	08 226 04	#10	
Amount o	1 Contract as Awarded. \$605,975.90				#Z #2	75 002 77	#11 #12	
Change Or	rders:				#3	50 134 50	#12	
unange Ui # 1 ¢	(200000) #65				#4 #5	125 124 20	#13	
# 1 7 # 7 ¢	(3,000.00) #05				#5	18 638 10	#14	
# 2 ¢					#0	18,038.10	#15	
# J J # / \$,				#2		#10	
#5\$					#0 #9	······································	#17 #18	
Total Cha	nge Orders: (\$16.260	00)			Total Payments			
Total Adiu	isted Contract: \$589,715	90			Previously Autho	orized:		Ś
rotar/taja	<u> </u>				Treffeddily Addin	-		Ŷ
Item No.	Description	Unit of	Quantity Original	Previous Month's Quantity	Current Month's Quantity	Quantity Completed To	Unit Price (\$)	Va Compl
Schedule 2	1.0 - General Conditions	measi	Lotiniate	Quantity	quantity	Dute	(+7	
1.01	Mobilization, Insurance, and Bonds	LS	1	1.00		1.00	\$25,400.00	
1.02	Project Sign	EA	1	1.00		1.00	\$500.00	
1.03	Barricades. Signs. and Traffic Handling	LS	1	1.00		1.00	\$500.00	
1.04	Stormwater Pollution Prevention	LS	1	1.00		1.00	\$1 500.00	
1.05	Care of Water during Construction	15	1	1.00		1.00	\$500.00	
1.00	care of trater during construction		i +	1.00		1.00	2200.00	1

\$530,744.31

Itom No.	Description	Unit of	Quantity Original	Previous Month's	Current Month's	Quantity Completed To	Unit Price	Value of Completed Work (\$)
Schedule 1	1.0 - General Conditions	ivieas.	Estimate	Qualitity	Quantity	Date	(*)	(*)
1.01	Mobilization, Insurance, and Bonds	LS	1	1.00		1.00	\$25,400.00	25,400.00
1.02	Project Sign	EA	1	1.00		1.00	\$500.00	500.00
1.03	Barricades, Signs, and Traffic Handling	LS	1	1.00		1.00	\$500.00	500.00
1.04	Stormwater Pollution Prevention	LS	1	1.00		1.00	\$1,500.00	1,500.00
1.05	Care of Water during Construction	LS	1	1.00		1.00	\$500.00	500.00
1.06	Hydromulch	AC	2.40	2.40		2.40	\$2,880.00	6,912.00
1.07	Erosion Control Matting	SY	1,510	1510.00		1,510.00	\$2.00	3,020.00
1.08	Filter Fabric Fence	LF	**0	0.00		0.00	\$3.50	0.00
1.09	Clearing and Grubbing	AC	0.80	0.80		0.80	\$4,000.00	3,200.00
1.10	Foundation Material for Trench	СҮ	**14	14.00		14.00	\$10.00	140.00
1.11	Excavation Safety	LS	1	1.00		1.00	\$5,000.00	5,000.00
1.12	Trench Safety	LF	*6,365	6365.00		6,365.00	\$1.00	6,365.00
Schedule 2	2.0 - Gravity Sewer Line, Force Main, and Lift Station							
2.01	Gravity Sewer Line and Manhole Testing	LS	1	1.00		1.00	\$2,500.00	2,500.00
2.02	Force Main Testing	LS	1	1.00		1.00	\$1,500.00	1,500.00
2.03	Temporary Bypass Pumping	LS	**0	0.00		0.00	\$1,000.00	0.00
2.04	4-in SDR 21 PVC Force Main	LF	1,374	1374.00		1,374.00	\$7.60	10,442.40
2.05	4-in Restrained Joint SDR 21 PVC Force Main by Directional Drill	LF	490	490.00		490.00	\$24.00	11,760.00
2.06	10-in Steel Encasement with Pipe Supports by Open Cut	LF	40	40.00		40.00	\$105.00	4,200.00
2.07	14-in Steel Encasement by Dry Bore	LF	*0	0.00		0.00	\$155.00	0.00
2.08	Combination Air Valve Assembly	EA	2	2.00		2.00	\$3,600.00	7,200.00
2.09	18-in PS 115 PVC Gravity Sewer Line	LF	**0	0.00		0.00	\$330.00	0.00
2.10	8-in SDR 26 PVC Gravity Sewer Line	LF	*252	252.00		252.00	\$44.00	11,088.00
2.11	Connect to Existing Sewer	EA	1	1.00		1.00	\$1,000.00	1,000.00
2.12	48-in Diameter Manhole	EA	4	4.00		4.00	\$4,920.00	19,680.00
2.13	60-in Diameter Manhole	EA	1	1.00		1.00	\$7,000.00	7,000.00
2.14	Sanitary Sewer Lift Station	LS	1	1.00		1.00	\$83,950.00	83,950.00
2.15	Electrical Power Service	LS	1	1.00		1.00	\$15,000.00	15,000.00
2.16	Electrical and Controls	LS	1	1.00		1.00	\$36,800.00	36,800.00
2.17	Rock and Filter Fabric for Lift Station Site	SY	85	85.00		85.00	\$25.00	2,125.00
2.18	Intruder Resistant Chainlink Fence	LF	120	120.00		120.00	\$30.00	3,600.00
2.19	12-ft Intruder Resistant Chainlink Fence Gate	EA	1	1.00		1.00	\$1,200.00	1,200.00
2.20	Barbed Wire Fence Repair	LF	35	35.00		35.00	\$10.00	350.00
2.21	All Weather Access Road	SY	90	90.00		90.00	\$25.00	2,250.00
2.22	30-in Class III RCP	LF	36	36.00		36.00	\$110.00	3,960.00
2.23	30-in 6:1 Safety End Treatment	EA	2	2.00		2.00	\$1,850.00	3,700.00
*2.24	8-in RJ Sewer Line by Directional	LF	420	420.00		420.00	\$60.00	25,200.00

Item No.	Description	Unit of Meas.	Quantity Original Estimate	Previous Month's Quantity	Current Month's Quantity	Quantity Completed To Date	Unit Price (\$)	Value of Completed Work (\$)
Schedule 3	8.0 - 12-Inch Water Line							
4.01	Water Line Disinfection and Testing	LS	1	1.00		1.00	\$2,000.00	2,000.00
4.02	12-in C900 Water Line	LF	4,829	4829.00		4,829.00	\$26.50	127,968.50
4.03	12-in Restrained Joint C900 PVC Water Line By Directional Drill	LF	771	771.00		771.00	\$95.00	73,245.00
4.04	12-in Gate Valve Assembly	EA	8	8.00		8.00	\$2,620.00	20,960.00
4.05	Fire Hydrant Assembly	EA	7	7.00		7.00	\$4,000.00	28,000.00
4.06	Connect to Existing Water Line	EA	1	1.00		1.00	\$4,000.00	4,000.00
4.07	20-in Steel Encasement by Dry Bore	LF	80	80.00		80.00	\$210.00	16,800.00
4.08	20-in Steel Encasement with Pipe Supports by Open Cut	LF	60	60.00		60.00	\$150.00	9,000.00
4.09	Barbed Wire Fence Repair	LF	20	20.00		20.00	\$10.00	200.00

*Per Change Order No. 1 **Per Change Order No. 2

In accordance with the Contract Documents, based on on-site observations and the data comprising the above application, the Engineer represents to the Owner that to the best of the Engineer's knowledge, information and belief, the Work (excluding trench safety) has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the **AMOUNT PAYABLE**. The Contractor is solely responsible for trench safety and as such, the Engineer makes no representation that this pay item has been performed in a manner consistent with the Contract Documents.

	KSA		
Ву	Jun ROm	Total Amount to Date Material on Hand	\$589,715.90 \$0.00
Date	5-6-2019	Less 0 % Retainage	\$589,715.90 \$0.00
Approved:	CITY OF MINEOLA	Net Total	\$589,715.90
Ву		Less Previous Payments	\$530,744.31
Date		Amount Payable to Contractor This Estimate	\$58,971.59

Certificate of Construction Completion (COCC)

(Submit one for each Prime Construction Contract)

Grant Recipient: City of Mineola

TxCDBG Contract No: 7217052

This is to certify that a final inspection of the project described below was conducted on the <u>12th</u> day of <u>April</u>, <u>2019</u>. Contract was entered into on the <u>3rd</u> day of <u>January</u>, <u>2018</u> between the city/county of <u>Mineola</u> and <u>Duplichain Contractors</u>, <u>LLC</u>. for the construction of <u>Utility</u> <u>Infrastructure Improvements for Sanderson Farms</u>.

This is to further certify that:

1. The work has been completed in accordance with the plans and specifications and all amendments, change orders and supplemental agreements thereto.

2. The sum of \$_____, has been deducted from the final payment to the Contractor in accordance with any contract liquidated damages requirements, separate from any liquidated damages resulting from Davis-Bacon compliance.

3. All programmatic requirements have been met, all claims and disputes have been settled, all warranties have been received, and all liens have been released.

4. The Contractor has presented on behalf of itself and its sureties, satisfactory evidence that he or she will repair, replace and rectify any faulty workmanship and/or materials discovered in the work within a period of 12 months from this date, as provided in the Contract.

5. All bills for materials, apparatus, fixtures, machinery, labor, and equipment used in connection with the construction of this project have been fully paid.

6.	Amount of Original Contract	\$ 605,975,90
	Cumulative Change Orders	\$ 16,260,00
	Final Amount of Contract	\$ 589,715,90
	Less Previous Payments	\$ 530,744,31
	Less Deductions (from #2 above)	\$
	FINAL PAYMENT (Balance)	\$ 58,971.59

7. The Final Payment above is now due and payable.

Certified by the following Engineer, Contractor, and Chief Elected Official/Designee:

Engineer Project Manager Title KSA Engineers, Inc. Firm

Title

City / County

Chief Elected Official/Designee

actors

09/01/2016



100 Elkhart St./P. O. Box 637 Alto, Texas 75925 (936) 858-4100 * (936) 858-4789-Fax jasond@consolidated.net

LETTER OF TRANSMITTAL

Date: January 14, 2019

Attention: Christina Boykin

RE: <u>CITY OF MINEOLA</u> Utility Infrastructure Improvements for Sanderson Farms TCF Contract No. 7217052

To: KSA Engineers, Inc.

6781 Oak Hill Blvd.

Tyler, TX 75703

WE ARE SENDING YOU <u>1 PDF</u> OF THE FOLLOWING:

- Pay EstimateTransmittal
- O & M Manual

□ As-Built Plans

- Affidavit of Bills Paid
- Release of Lien Form

- □ Notice of Award
- □ Certificate of Insurance
- Submittal Data

THESE ARE TRANSMITTED AS CHECKED BELOW:

For Approval	Approved as Submitted
For Your Use	Approved as Noted
As Requested	Returned for Correction
For Review & Comment	Price Quote
For Your Files	Bid Date
Other	

REMARKS: <u>CLOSING DOCUMENTS</u> to KSA Engineers for the City of Mineola: Utility Infrastructure Improvements for Sanderson Farms - TCF Contract No. 7217052 project.

DUPLICHAIN CONTRACTORS, LLC

FROM: Jason Duplichain

Vice President

DATE: January 14, 2019

CC File

STATE OF TEXAS

COUNTY OF CHEROKEE

AFFIDAVIT

THAT I, the undersigned, being duly sworn, say that I was the Contractor for the performance of certain work entered into the <u>3rd</u>day of <u>January</u>, 2018, between THE <u>CITY OF MINEOLA</u>, TEXAS, and DUPLICHAIN CONTRACTORS, LLC for construction of the City of Mineola: Utility Infrastructure Improvements for Sanderson Farms - TCF Contract No. 7217052

KNOW ALL MEN BY THESE PRESENTS:

- The undersigned hereby certifies the improvements on the aforementioned project have been fully 1. and satisfactorily completed in conformity with the contract.
- The undersigned further certifies that there are no claims of laborers or mechanics for unpaid wages 2. arising out of the performance of said contract and that the wage rates paid by Contractor and all Subcontractors were in conformity with the contract provisions relating to said wage rates.
- The undersigned further certifies that there are no claims of subcontractors or materials suppliers for 3. unpaid bills for labor or materials and supplies furnished in the course of the contract.

CERTIFIED TRUE AND CORRECT

DUPLICHAIN CONTRACTORS, LLC

STATE OF TEXAS COUNTY OF CHEROKEE

BEFORE me, the undersigned, a Notary Public in and for said County and State, on this day personally appeared JASON DUPLICHAIN_, 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. Given under my hand this 14th day of January, A.D., 2019.



COUNTY, TEXAS

RELEASE OF LIEN FORM

GENERAL CONTRACTOR'S AFFIDAVIT, WARRANTY, AND LIEN WAIVER

STATE OF TEXAS COUNTY OF <u>CHEROKEE</u>

THAT I, the undersigned, being duly sworn, do depose and say that I was contracted to construct, alter, and/or repair the public facilities improvements identified in Construction Contracts Document entitled: <u>City of Mineola: Utility Infrastructure Improvements for Sanderson Farms - TCF Contract No.</u> 7217052.

THAT these improvements have been fully and satisfactorily completed in substantial conformity with the contract.

THAT all the materials used in said improvement, all labor performed thereon and all fees, insurance, and permits, in connection with the said improvements which might give rise to liens have been paid in full.

Listed below are all subcontractors and major materialmen included in this work. Attached are waivers of liens from all of them as substantiation of the above statement.

NAME OF SUBCONTRACTOR OR MATERIALMEN AND ADDRESS

NAME	ADDRESS
Core & Main Waterworks	3090 NNE Loop 323 – Tyler, TX 75708
Electro-Mec, Inc.	700 S. Main St – Henderson, TX 75652
DXP/York Pump & Equipment	200 Roenia Circle - Longview, TX 75604
••••••••••••••••••••••••••••••••••••••	

THAT I hereby waive any lien or right to lien which he/she may have against the described improvements and warrants to save harmless the <u>CITY OF MINEOLA, TEXAS</u> from any liens which are now in existence, or may hereafter arise by reason of said improvements, and cause the same to be released of accord immediately.

THAT the foregoing waiver and these statements are an express warranty and representation to the **<u>CITY OF MINEOLA, TEXAS</u>** of the facts herein sworn to and is made for valuable consideration, receipt whereof is acknowledged.

SUBSCRIBED AND SWORN to before me this <u>14th</u> day of <u>January</u>, 2019.



KARA NICOLE LAMAR My Notary ID # 129101247 Expires October 16, 2020

DUPLICHAIN CONTRACTORS, LLC

Jason Duplichain, Vice President

alar Jamos

Kara Lamar, Notary Public, State of Texas My Commission expires: <u>October 16</u>, 2020

CITY OF MINEOLA, TEXAS **UTILITY INFRASTRUCTURE IMPROVEMENTS** FOR SANDERSON FARMS

MAYOR

KEVIN WHITE

CITY COUNCIL

SUE JONES POLLY JONES JACK NEWMAN JAYNE LANKFORD NOVADA BIGHAM MITCHELL TUCK

CITY ADMINISTRATOR /

EXECUTIVE DIRECTOR

ECONOMIC DEVELOPMENT

CORPORATION

MERCY RUSHING, PCED, CTE

DIRECTOR OF PUBLIC WORKS

WILLIAM CRUMP





WALTER F. HICKS, III, P.E. VICE PRESIDENT

JEREMY R. ORR, P.E. PROJECT ENGINEER



6781 Oak Hill Blvd., Tyler, Texas 75703 T. 903-581-8141 F. 903-581-6853 www.ksaeng.com

PREPARED BY:

DATE

DATE

\\ksa-tly-server3\projects\Projects\MN160\008 CAD\30 Sheets\MN160 - C - GI - COVR.dwg : COVER SHEET



SHEET INDEX				
SHEET NO.	SHEET TITLE			
1	COVER SHEET			
2	LOCATION MAP AND SHEET INDEX			
3	LEGEND, ABBREVIATIONS, AND GENERAL			
4	WATERLINE PLAN AND PROFILE STA 0+00			
5	WATERLINE PLAN AND PROFILE STA 14+00			
6	WATERLINE PLAN AND PROFILE STA 28+00			
7	WATERLINE PLAN AND PROFILE STA 42+00			
8	SANITARY SEWER PLAN AND PROFILE STA			
9	SANITARY SEWER PLAN AND PROFILE STA			
10	SANDERSON FARMS LIFT STATION SITE PL			
11	MISCELLANEOUS DETAILS I			
12	MISCELLANEOUS DETAILS II			
13	MISCELLANEOUS DETAILS III			
14	MISCELLANEOUS DETAILS IV			
15	PRECAST SAFETY END TREATMENT TYPE			
E-4.1	SANDERSON FARMS ELECTRICAL SITE PLA CLASSIFICATION			
E-6.1	ELECTRICAL DETAILS I			
E-6.2	ELECTRICAL DETAILS II			
E-7.1	ELEMENTARY DIAGRAMS			

STANDARD SHEETS IDENTIFIED BY ** AFTER SHEET NAME HAVE BEEN ISSUED BY ME AND ARE APPLICABLE TO THIS PROJECT.

WALTER F. HICKS, III, P.E.

- CONSTRUCTION NOTES) TO 14+00 00 TO 28+00 00 TO 42+00
- 0 TO 56+00
- A 0+00 TO 13+50
- A 13+50 TO 25+57
- PLAN

E II - PARALLEL DRAINAGE** LAN & AREA

DATE

					MARK REVISION DATE		SHEETS\ MN160 - C - GI - MAP.DWG MAP 1/30/2019 - 8:45 AM	DRAWING PATH'NAME LAYOUT PLOT DATE - TIME
								SHEET NAME:
	CITY OF MINEOLA					FOR SANDERSON FARMS	MINEOLA, TEXAS	PROJECT NAME:
DRAWN BY:	NR	DESIGNED RV.		CA	LATEST REVISION:	11/20/2017	KSA JOB NO.:	MN-160
							6781 Oak Hill Blvd., Tyler, Texas 75703 T. 903-581-8141 F. 903-581-6853	www.ksaeng.com
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SHE	∧∟: ₽E FI	irm NO.	Reg	istra		No.	F-135	6

			L	EGEND				
EXISTING	PROPOSED	DES	CRIPTION	EXISTING	PROPOSED		DESCRIPTION	GENERAL CONSTRUCTION NOTES
ROW	ROW	RIGHT OF WAY LINE		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	۳۳ °	TRAFFIC SI	GNAL	
	TxDOT ROW							1. THE CONTRACTOR SHALL ANTICIPATE ALL UNDERGROUND AND ABOVE GROUND OBSTRUCTIONS SUCH 24. ALL WORK AND MA
		UNION PACIFIC RAILR	ROAD RIGHT OF WAY	TSB	ТЅВ	TRAFFIC SI	GNAL BOX	LINES, ELECTRIC LINES, OR POWER DUCTS, CONCRETE, POLES, AND DEBRIS. ANY SUCH LINES OR TO THE ENGINEER
— — — 100— — —	<u> </u>	INDEX CONTOUR			$\overline{\mathbf{O}}$	UTILITY PO	LE / POWER POLE	VERIFIED IN THE FIELD BY THE CONTRACTOR.
99	99	INTERMEDIATE CONT	OUR		·)	GUY WIRE		25. ALL TREES, SHRUE 2. THE OWNER AND ENGINEER WILL ENDEAVOR TO FAMILIARIZE THE CONTRACTOR WITH ALL KNOWN WHEN APPROVED
· · · · · · · · I	<u></u>	CREEK OR DITCH		-0	-0	GUY POLE	_	UTILITIES AND OBSTRUCTIONS, BUT THIS SHALL NOT RELIEVE THE CONTRACTOR FROM FULL WASTE MATERIALS RESPONSIBILITY IN ANTICIPATING ALL UNDERGROUND AND ABOVE GROUND OBSTRUCTIONS BY-PRODUCTS OF
				•			-	WHETHER OR NOT SHOWN ON THE PLANS.
		EDGE OF PAVEMENT		EM	EM	ELECTRIC	- METER	3. THE CONTRACTOR SHALL MAKE ADJUSTMENT FOR ANY AND ALL UTILITIES. THE CONTRACTOR SHALL MATERIALS AS SOO
OE	OE	OVERHEAD ELECTRIC	CAL LINE	E	E	ELECTRICA	L PEDESTAL	SHOWN ON PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION, AND NOTIFY THE ENGINEER OF
UE	UE	UNDERGROUND ELEC	CTRICAL LINE	•		JUNCTION	BOX (AS LABEL)	POTENTIAL GRADE CONFLICTS IN ADVANCE OF CONSTRUCTION. 26. ALL WASTE MATER THE CONTRACTOR
		OVERHEAD TELEPHO		(T)	1	TELEPHON		4. WATER IN EXCAVATION: KEEP WORK FREE FROM GROUND OR SURFACE WATER AT ALL TIMES. ENGINEER. PROVIDE PUMPS OF ADEQUATE CAPACITY OR OTHER APPROVED METHOD TO REMOVE WATER FROM
UT	UT		EPHONE LINE			CAS VALVE	E PEDESTAL	THE EXCAVATION IN SUCH A MANNER THAT IT WILL NOT INTERFERE WITH THE PROGRESS OF THE 27. THE CONTRACTOR WORK OR THE PROPER PLACING OF OTHER WORK, THE COST OF DEWATERING THE EXCAVATION PROJECT. CONTRACTOR
CTV	CTV	UNDERGROUND CAB	LE TV			GAS METER	R	SHALL BE SUBSIDIARY TO THE CARE OF WATER DURING CONSTRUCTION BID ITEM. REFER TO FLOODPLAIN" AS D
		_" GAS LINE				WATER ME	TER	CONTRACTOR SHA
		_" WATER LINE		\bowtie	▶	WATER VAI	_VE	5. SHEETING AND BRACING: CONTRACTOR HAS SOLE RESPONSIBILITY FOR TRENCH AND EXCAVATION SAFETY. INSTALL SHEETING AND BRACING NECESSARY TO SUPPORT THE SIDES OF TRENCHES AND 28. NO FIRES WILL BE
WS	ws	WATER SERVICE		Ŵ	w .	WATER VA	VE IN PAVEMENT	OTHER EXCAVATIONS WITH VERTICAL SIDES, AS REQUIRED BY CURRENT OSHA REGULATIONS. DISPOSED OF BY T
		_" IRRIGATION LINE		-0-	•		ANT, 3-PORT	6. MINIMUM COVER: ALL PIPES SHALL HAVE A MINIMUM COVER OF 36 INCHES. COVER SHALL BE 29. EXCAVATED MATE
		_" SANITARY SEVVER	LINE	Р Ф	₽			THE PIPE. IF 36 INCHES OF COVER CAN NOT BE MAINTAINED, THE CONTRACTOR SHALL NOTIFY THE
		_ " STORM SEWER LIN	١E			WATER WE	LL/PUMP	ENGINEER AND CORRECTIVE MEASURES SHALL BE MADE. 30. REFERENCE TECH PREVENTION, FOR
c=======	c=======	CULVERT (AS LABELE	ED)		Ē	PLUG		 CONTRACTOR SHALL FIELD VERIFY LOCATION AND GRADE OF PROPOSED UTILITY LINES PRIOR TO INSTALLATION AND SHALL MAKE ADJUSTMENTS AS NECESSARY TO AVOID CONFLICTS. AND PAPERWORK.
X	x	BARB WIRE FENCE		S	S	SANITARY	SEWER MANHOLE	ASSOCIATED WITH 8 INVERT FLOWLINE FLEVATIONS SHOWN ON THESE PLANS ARE FOR THE FLOWLINES AT THE CENTER SHALL MINIMIZE TH
o	o	CHAINLINK FENCE		\odot	0	SANITARY	SEWER CLEAN-OUT	OF THE PROPOSED MANHOLES. CONTRACTOR SHALL CONSTRUCT OR MANUFACTURE MANHOLE SHALL EMPLOY AD
//	//			0	°	VENT (AS L		BOTTOMS WITH THE CORRECT INFLOW AND OUTFLOW ELEVATIONS AT THE GRADES OF EROSION FOR FILL CORRESPONDING INFLOW AND OUTFLOW PIPES.
	X	NET WIRE FENCE				STORM SEV	WER MANHOLE	9. THE CONTRACTOR SHALL PROVIDE TEMPORARY BYPASS PUMPING AS REQUIRED TO MAINTAIN
-0	-00	METAL FENCE				MAILBOX		OPERATION OF THE WASTEWATER COLLECTION SYSTEM AT ALL TIMES DURING CONSTRUCTION. 31. PROPER SITE DRA PAYMENT FOR TEMPORARY BYPASS PLIMPING SHALL BE MADE LINDER THE TEMPORARY BYPASS SUBFACE PLINOFE
##	##	PLASTIC FENCE		0	•	SATELLITE	DISH	PUMPING BID ITEM.
FF FF	FF FF	FILTER FABRIC FENC	E	\bigtriangleup	A	ANTENNA		10. ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE ENCASED WITH 8 MIL. POLYETHYLENE. PAYMENT FOR
0		METAL BEAM GUARD	FENCE	0	0	FLAG POLE		THIS ITEM IS SUBSIDIARY TO THE UNIT PRICE FOR UTILITY CONSTRUCTION. 32. CONTRACTOR SHA FROM EXISTING ST
	۲	R.O.W. MONUMENT		\odot	•			11. WHERE REQUIRED FOR CONSTRUCTION, CONTRACTOR SHALL PROVIDE ALL NECESSARY FITTINGS TO FINAL ACCEPTANC INSTALL PIPE AS SHOWN. THE COST OF ANY ADDITIONAL FITTINGS REQUIRED SHALL BE SUBSIDIARY.
•	•	BENCHMARK				INTERCEPT	OR DIKE	TO THE PIPE LINE INSTALLATION.
X	X	CONTROL POINT X IN	CONCRETE			HUB/TACK		12. ALL BURIED FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT TYPE. FITTINGS SHALL INCLUDE FROM PUBLIC STR
	۲	CONTROL POINT				REFERENC	E MARKER	MECHANICAL THRUST RESTRAINING DEVICES (MULTIPLE GRIPPING WEDGES OR FULL CIRCLE CONTRACTOR OR GRIPPING RINGS) AND CONCRETE THRUST BLOCKING.
	Δ	TRAVERSE POINT		<u>.</u>	.	MARKER PO	DST	34. THE CONTRACTOR 13. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY FITTINGS AND APPURTENANCES FOR AND BUSINESS AF
(R)	®	IRON ROD				PEDESTRIA	N SIGNAL BOX	THE INSTALLATION OF THE PIPELINES AT HORIZONTAL AND VERTICAL BENDS. ALL FITTINGS SHALL BE RATED FOR THE WORKING PRESSURE OF THE PIPE WITH ALLOWANCES FOR SURGE AND SAFETY, ALL
(P)	P	IRON PIPE / IRON PIN						FITTINGS SHALL BE RESTRAINED AS REQUIRED FOR PROPER OPERATION.
× N	× N	NAII			Reference in the second s		CONTROL BOX SIGNAL	ENTRANCES ARE C 14. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE BEFORE OPERATING ALL
	2	OWNERSHIP TIE			Ter Ter T	RAILROAD	SIGNAL STANDARD	WATER MAIN VALVES. CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES WITHOUT 35. CONTRACTOR SHA AUTHORIZATION FROM THE OWNER CONSTRUCTION A
~~~~~	~~~~~	TREE LINE				SIGNAL PE	DESTAL	15 CONTRACTOR SHALL USE DUE CARE AND DU IGENCE IN CONSERVING THE EXISTING GRASSED AREAS
٠	•	TREE (AS LABEL)			•	SINGAL/SP	AN WIRE SUPPORT/MAST ARM	ALL AREAS DAMAGED BY CONTRACTOR'S CONSTRUCTION ACTIVITIES OUTSIDE WORK AREA SHALL BE
•	•	SHRUB						REPAIRED BY CONTRACTOR AT CONTRACTOR'S EXPENSE. 36. EXISTING IMPROVE SPRINKLER SYSTE
Sind A	لىنىڭ ھ	HEDGE SOIL BORE		M		MONITORIN	IG TEST STATION	16. ALL UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED STRUCTURES WHI WITH FINISH GRADING, AND SEEDING, UNLESS OTHERWISE INDICATED ON THE PLANS. ALL SLOPES SHALL BE REPAIRE
<u> </u>	V					MONTON		GREATER THAN 5:1 SHALL RECEIVE EROSION CONTROL MATTING. SAME LOCATION A
								17. TOPSOIL REPLACEMENT IS REQUIRED IN ALL UNPAVED AREAS. TOPSOIL SHALL INCLUDE THE TOP SIX (6) INCHES OF TRENCH, TOPSOIL SHALL BE KEDT SEDADATE FROM CENERAL TRENCH EXCAUATED
ABBREVIATION	DESC	RIPTION	ABBREVIATION	DESCRIPT	ION ABB	REVIATION	DESCRIPTION	MATERIAL. IN CULTIVATED AREAS ROCK FROM THE TRENCH EXCAVATION SHALL NOT BE INCLUDED IN LINES, UNLESS IND
			HMAC HORZ	HOT MIX ASPHALTIC CO	NCRETE RI	- ST	RIGHT STAINI ESS STEEL	THE TOP SIX INCHES OF TOPSOIL BACKFILL. 38. CONTRACTOR SHA
ASPH	ASPHALT		ID	INSIDE DIAMETER	SS		SANITARY SEWER	18. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL HORIZONTAL AND VERTICAL CONSTRUCTION TYPES TO INSURE STAKING AS REQUIRED FOR THE PROJECT DEVELOPMENT.
BM	BENCHMARK		IR IR	IRON ROD	S		SCHEDULE	19 CONTRACTOR SHALL MAINTAIN TRAFFIC CONTROL AT ALL TIMES IN ACCORDANCE WITH THE LATEST
BOC BOP	BACK OF CURB BEGINNING OF	PROJECT	JB JT	JUNCTION BOX JOINT	SF	PECs Q	SPECIFICATIONS SQUARE	VERSION OF THE TEXAS MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND 40. SEE TECHNICAL SE
CF CI	CUBIC FEET		LT I FN	LEFT LENGTH	S1 S1	А	STREET STATION	REQUIRED BY CONDITIONS OF TXDOT PERMITS FOR CONSTRUCTION ON STATE RIGHT-OF-WAYS.
CK	CREEK		LF		ST	D	STANDARD	20. CONTRACTOR SHALL NOTIFY TXDOT, 48 HOURS PRIOR TO STARTING CONSTRUCTION WITHIN THE
CO	CLEAN OUT		LS LP	LIGHT POLE	ST	L M	STORM SEWER	TXDOT RIGHT-OF-WAY IN ORDER THAT TXDOT MAY HAVE A REPRESENTATIVE PRESENT.
CMP CONC	CORRUGATED I CONCRETE	METAL PIPE	LB. LBS	POUND POUNDS	ST SV	RM V	STORM WATER SIDEWALK	21. CONTRACTOR SHALL NOTE AND COMPLY WITH ALL SPECIAL CONDITIONS FOR TXDOT, LANDOWNERS,
CONT CPT	CONTINUOUS CENTER POINT	OF TANGENCY	MB MH	MAILBOX MANHOLE	TE	E ED	TELEPHONE TELEPHONE PEDESTAL	AND CITY OF MINEOLA IN THE SPECIFICATIONS. COST OF COMPLIANCE WITH SPECIAL CONDITIONS SHALL BE SUBSIDIARY TO PROPOSED INSTALLATION.
CU			MAX		TF	R		22. NOTIFY ALL UTILITY COMPANIES INVOLVED TO HAVE THEIR UTILITIES LOCATED AND MARKED IN THE
	DEFLECTION AN	IGLE	MFGR	MANUFACTURER	TC	)P	TOP OF PIPE	FIELD. ALL UNDERGROUND UTILITIES SHALL THEN BE UNCOVERED TO VERIFY LOCATION AND ELEVATION BEFORE CONSTRUCTION BEGINS, COORDINATE WITH LITUITY OWNER IF LITUITY
DI DIA	DUCTILE IRON DIAMETER		MIN MISC	MINIMUM MISCELLANEOUS	TC TC	DS DF	TOP OF SLOPE TOP OF FOOTING	INSPECTOR MUST BE ON SITE WHEN LOCATING OR EXCAVATING NEAR UTILITIES. LOCATING UTILITIES
DR E	DRIVE EAST		N NTS	NORTH NOT TO SCALE		) W	TOP OF WALL TRAVERSE POINT	
EA	EACH		N/A No			т	TRAVERSE TURNING POINT	23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF MINEOLA. PIPELINE. AND
			OCEW	ON CENTER EACH WAY	V VE	RT	VOLT VERTICAL	UTILITY COMPANIES HAVING PROPERTY IN THE AREA OF CONSTRUCTION A MINIMUM OF 48 HOURS
ENC EOC	ENCASEMENT EDGE OF CONC	RETE	OD PC	OUTSIDE DIAMETER POINT OF CURVATURE	VF VF	יו יכ	VERTICAL POINT INVERSE VERTICAL POINT CURVATURE	
EOG		EL CT	PI PI	POINT OF INVERSION	VF	РТ	VERTICAL POINT TANGENCY	UTILITY COMPANY     PHONE NUMBER       CITY OF MINEOLA     (903) 569-2535
EX	EXISTING	- · ·	PP	POWER POLE	W	TR	WATER	DIGTESS (800) 344-8377 TEXAS ONE CALL (800) 245-4545
FC FNC	FENCE CORNER	K	PK PRC	PRESSURE RATED POINT OF REVERSE CUI	RVATURE W	/VF	WELDED WIRE FABRIC WITH	LONE STAR NOTIFICATION CENTER (800) 545-6005
FH FL	FIRE HYDRANT FLOWLINF		PROP PSI	PROPOSED POUNDS PER SOLIARE I	NCH W	o M	WITHOUT WATER METER	AEF/SWEPCO (888) 216-3523 AT&T (800) 464.7928
FD			PT PV/C		Ŵ	V	WATER VALVE	CENTERPOINT ENERGY (800) 669-8344 SUDDENLINK COMMUNICATIONS (903) 572-6107
GAL	GALLON		PVMT				1	

				GLIND				
EXISTING	PROPOSED	DESC	RIPTION	EXISTING	PROPOSED		DESCRIPTION	GENERAL CONSTRUCTION NOTE
ROW	ROW	RIGHT OF WAY LINE		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>۳۳</u> ~	TRAFFIC SIC	GNAL	
	TxDOT_ROW	RAILROAD RIGHT OF WAY		·	년 	SIGN SIGN AND P	OLE	1. THE CONTRACTOR SHALL ANTICIPATE ALL UNDERGROUND AND ABOVE GROUND OBSTRUCTIONS SUCH 24. ALL WORK AND M AS, BUT NOT LIMITED TO, WATER MAINS, GAS LINES, STORM AND SANITARY SEWERS, TELEPHONE CONSTRUCTION
		UNION PACIFIC RAILRO	DAD RIGHT OF WAY	TSB	TSB	TRAFFIC SIC	GNAL BOX	LINES, ELECTRIC LINES, OR POWER DUCTS, CONCRETE, POLES, AND DEBRIS. ANY SUCH LINES OR TO THE ENGINEE OBSTRUCTIONS INDICATED ON THE PLANS SHOW ONLY THE APPROXIMATE LOCATIONS AND SHALL BE SPECIFICATIONS
<u> </u>		INDEX CONTOUR			$\odot$	UTILITY POL	E / POWER POLE	VERIFIED IN THE FIELD BY THE CONTRACTOR.
99	99		DUR	·)	)- (	GUY WIRE		25. ALL TREES, SHR 2. THE OWNER AND ENGINEER WILL ENDEAVOR TO FAMILIARIZE THE CONTRACTOR WITH ALL KNOWN WHEN APPROVE UTILITIES AND ODOT PLICTIONS, PLIT THIS SHALL NOT DELIVISE THE CONTRACTOR WITH ALL KNOWN WHEN APPROVE
					-0			RESPONSIBILITY IN ANTICIPATING ALL UNDERGROUND AND ABOVE GROUND OBSTRUCTIONS BY-PRODUCTS O
PL	PL	PROPERTY LINE				LIGHT POLE		WHETHER OR NOT SHOWN ON THE PLANS. DEBRIS AND OTH WASTE MATERIA
		EDGE OF PAVEMENT		EM	EM	ELECTRIC M	ETER	3. THE CONTRACTOR SHALL MAKE ADJUSTMENT FOR ANY AND ALL UTILITIES. THE CONTRACTOR SHALL MATERIALS AS SU VERIFY THE LOCATION. DEPTH. AND THE SIZE OF EXISTING PIPELINES AND UTILITIES. WHETHER ENGINEER.
OE	OE	OVERHEAD ELECTRIC	AL LINE	E	E	ELECTRICAL	PEDESTAL	SHOWN ON PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION, AND NOTIFY THE ENGINEER OF POTENTIAL GRADE CONFLICTS IN ADVANCE OF CONSTRUCTION
UE	UE					JUNCTION B	OX (AS LABEL)	
OT						TELEPHONE		4. WATER IN EXCAVATION: KEEP WORK FREE FROM GROUND OR SURFACE WATER AT ALL TIMES. ENGINEER. PROVIDE PUMPS OF ADEQUATE CAPACITY OR OTHER APPROVED METHOD TO REMOVE WATER FROM
		FIBER OPTIC CABLE			E E E E E E E E E E E E E E E E E E E	GAS VALVE		THE EXCAVATION IN SUCH A MANNER THAT IT WILL NOT INTERFERE WITH THE PROGRESS OF THE 27. THE CONTRACTO WORK OR THE PROPER PLACING OF OTHER WORK. THE COST OF DEWATERING THE EXCAVATION PROJECT. CONTR
CTV	сту	UNDERGROUND CABL	ETV	$\bigcirc$	Ø	GAS METER		SHALL BE SUBSIDIARY TO THE CARE OF WATER DURING CONSTRUCTION BID ITEM. REFER TO FLOODPLAIN" AS TECHNICAL SPECIFICATION SECTION 01553.
		_" GAS LINE			⊞	WATER MET	ER	CONTRACTOR SHEETING AND BRACING: CONTRACTOR HAS SOLE RESPONSIBILITY FOR TRENCH AND EXCAVATION
		_" WATER LINE						SAFETY. INSTALL SHEETING AND BRACING NECESSARY TO SUPPORT THE SIDES OF TRENCHES AND 28. NO FIRES WILL B
ws	ws	" IRRIGATION LINE				FIRE HYDRA	NT. 3-PORT	
		_" SANITARY SEWER L	INE	Ŕ	مور	AIR RELIEF	VALVE	6. MINIMUM COVER: ALL PIPES SHALL HAVE A MINIMUM COVER OF 36 INCHES. COVER SHALL BE 29. EXCAVATED MAT MEASURED IN ALL DIRECTIONS (HORIZONTAL, VERTICAL, AND DIAGONAL) FROM THE OUTSIDE EDGE OF DISPOSED OF OF
		_" FORCE MAIN LINE		Ý	ĺ ∳	BLOW-OFF \	/ALVE	THE PIPE. IF 36 INCHES OF COVER CAN NOT BE MAINTAINED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND CORRECTIVE MEASURES SHALL BE MADE. 30. REFERENCE TEC
	"STM	_" STORM SEWER LINE	Ξ		<b>@</b>	WATER WEL	L/PUMP	PREVENTION, FO 7. CONTRACTOR SHALL FIELD VERIFY LOCATION AND GRADE OF PROPOSED UTILITY LINES PRIOR TO PROVISIONS OF
	C=====================================	CULVERT (AS LABELEI	ס)					INSTALLATION AND SHALL MAKE ADJUSTMENTS AS NECESSARY TO AVOID CONFLICTS. AND PAPERWOR
······································	^ ^	CHAINI INK FENCE		(S) ©	<b>6</b>	SANITARY S	EWER MANHOLE	8. INVERT FLOWLINE ELEVATIONS SHOWN ON THESE PLANS ARE FOR THE FLOWLINES AT THE CENTER SHALL MINIMIZE
//	//	WOOD FENCE		0	o	VENT (AS LA	ABEL)	BOTTOMS WITH THE CORRECT INFLOW AND OUTFLOW ELEVATIONS AT THE GRADES OF EROSION FOR FIL
	o	PIPE FENCE		$\bigcirc$	D	STORM SEW	/ER MANHOLE	CORRESPONDING INFLOW AND OUTFLOW PIPES. THE CONTRACTO WATER POLLUTION
><	X	NET WIRE FENCE		$\bigcirc$	Ø	STORM SEW	/ER INLET OR JUNCTION BOX	9. THE CONTRACTOR SHALL PROVIDE TEMPORARY BYPASS PUMPING AS REQUIRED TO MAINTAIN OPERATION OF THE WASTEWATER COLLECTION SYSTEM AT ALL TIMES DURING CONSTRUCTION. 31 PROPER SITE DR
	- <u>C</u> C	METAL FENCE				MAILBOX		PAYMENT FOR TEMPORARY BYPASS PUMPING SHALL BE MADE UNDER THE TEMPORARY BYPASS SURFACE RUNOF
		FILTER FABRIC FENCE	:	Å		ANTENNA	JISH	
0		METAL BEAM GUARD F	FENCE	0	0	FLAG POLE		THIS ITEM IS SUBSIDIARY TO THE UNIT PRICE FOR UTILITY CONSTRUCTION. 32. CONTRACTOR SE
$\bigcirc$	۲	R.O.W. MONUMENT		$\odot$	•	YARD DRAIN	1	FROM EXISTING STATES FROM EXISTING STALL PROVIDE ALL NECESSARY FITTINGS TO FINAL ACCEPTAN
O	•	CONCRETE MONUMEN	IT (POURED TY II)	$\odot$	•	SPRINKLER	HEAD	INSTALL PIPE AS SHOWN. THE COST OF ANY ADDITIONAL FITTINGS REQUIRED SHALL BE SUBSIDIARY TO THE PIPE LINE INSTALLATION.
•	•			—		INTERCEPT	OR DIKE	12 ALL BURIED EITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT TYPE EITTINGS SHALL INCLUDE EROM PUBLIC ST
$\sim$	X A		CONCRETE	A			MARKER	MECHANICAL THRUST RESTRAINING DEVICES (MULTIPLE GRIPPING WEDGES OR FULL CIRCLE CONTRACTOR OF
	<u>ک</u>	TRAVERSE POINT				MARKER PO	ST	GRIPPING RINGS) AND CONCRETE THRUST BLOCKING. 34. THE CONTRACTO
(R)	®	IRON ROD				PEDESTRIA	N SIGNAL BOX	13. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY FITTINGS AND APPURTENANCES FOR AND BUSINESS A THE INSTALLATION OF THE PIPELINES AT HORIZONTAL AND VERTICAL BENDS. ALL FITTINGS SHALL BE NOTICE TO ALL B
	P	IRON PIPE / IRON PIN				CONTROL P	ANEL	RATED FOR THE WORKING PRESSURE OF THE PIPE WITH ALLOWANCES FOR SURGE AND SAFETY. ALL DRIVEWAYS OR E
$\otimes$	8	BRASS CAP				RAILROAD C	CONTROL BOX SIGNAL	14 CONTRACTOR SUALL COORDINATE WITH THE OWNER'S REPRESENTATIVE REFORE OPERATING ALL
	j s			®® ⊽	<b>€</b> ® <b>₹₽</b>	RAILROAD	ROSSING SIGN	14. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE BEFORE OPERATING ALL         WATER MAIN VALVES. CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES WITHOUT       35. CONTRACTOR SH
				 	 ■	SIGNAL PED	IGNAL STANDARD	AUTHORIZATION FROM THE OWNER CONSTRUCTION. REPLACED AND I
٥	٠	TREE (AS LABEL)		$\langle \cdot \rangle$	$\odot$	SINGAL/SPA	N WIRE SUPPORT/MAST ARM	15. CONTRACTOR SHALL USE DUE CARE AND DILIGENCE IN CONSERVING THE EXISTING GRASSED AREAS. THE ENGINEER A ALL AREAS DAMAGED BY CONTRACTOR'S CONSTRUCTION ACTIVITIES OUTSIDE WORK AREA SHALL BE
•	٠	SHRUB				TRANSFORM	/IER	REPAIRED BY CONTRACTOR AT CONTRACTOR'S EXPENSE. 36. EXISTING IMPRO'
	$\overline{\Box}$	HEDGE			•	TOWER, SIN	GLE COLUMN	16. ALL UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED STRUCTURES WHICH AND SEEDING. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL SLOPES
$\bullet$	•	SOIL BORE		M	M	MONITORIN	G TEST STATION	GREATER THAN 5:1 SHALL RECEIVE EROSION CONTROL MATTING.
			ABBRE	EVIATIONS				17. TOPSOIL REPLACEMENT IS REQUIRED IN ALL UNPAVED AREAS. TOPSOIL SHALL INCLUDE THE TOP SIX 37. ALL EXISTING PA
ABBREVIATION	DESC	RIPTION	ABBREVIATION	DESCRIPT	ION ABE	REVIATION	DESCRIPTION	(6) INCHES OF TRENCH. TOPSOIL SHALL BE KEPT SEPARATE FROM GENERAL TRENCH EXCAVATED SIDEWALKS, DRIV MATERIAL. IN CULTIVATED AREAS ROCK FROM THE TRENCH EXCAVATION SHALL NOT BE INCLUDED IN LINES, UNLESS IN
	AT		HMAC I	HOT MIX ASPHALTIC CO	NCRETE R	T		THE TOP SIX INCHES OF TOPSOIL BACKFILL.
APPROX ASPH	ASPHALT		ID I	HORIZONTAL INSIDE DIAMETER	S	ST S	STAINLESS STEEL SANITARY SEWER	18. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL HORIZONTAL AND VERTICAL CONSTRUCTION TYPES TO INSUR
BLDG BM	BUILDING BENCHMARK		IP I IR I	IRON PIN IRON ROD	S S	SWR CH	SANITARY SEWER SCHEDULE	39. ALL CONCRETE S
BOC BOP	BACK OF CURB BEGINNING OF I	PROJECT	JB JT	JUNCTION BOX JOINT	S	PECs Q	SPECIFICATIONS SQUARE	VERSION OF THE TEXAS MANUAL FOR UNIFORM TRAFFIC CONTROL AT ALL TIMES IN ACCORDANCE WITH THE LATEST 40. SEE TECHNICAL
CF CI	CUBIC FEET		LT I	LEFT	S	Τ	STREET STATION	HIGHWAYS AS PUBLISHED BY THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) AND AS REQUIRED BY CONDITIONS OF TXDOT PERMITS FOR CONSTRUCTION ON STATE RIGHT-OF-WAYS.
CK	CREEK		LF		S	TD	STANDARD	20. CONTRACTOR SHALL NOTIFY TXDOT, 48 HOURS PRIOR TO STARTING CONSTRUCTION WITHIN THE
CO	CLEAN OUT		LS I	LIGHT POLE	S S	TM	STEEL STORM SEWER	TXDOT RIGHT-OF-WAY IN ORDER THAT TXDOT MAY HAVE A REPRESENTATIVE PRESENT.
CMP CONC	CORRUGATED N CONCRETE	METAL PIPE	LB. I LBS I	POUND POUNDS	S S	TRM W	STORM WATER SIDEWALK	21. CONTRACTOR SHALL NOTE AND COMPLY WITH ALL SPECIAL CONDITIONS FOR TXDOT, LANDOWNERS,
CONT CPT	CONTINUOUS CENTER POINT	OF TANGENCY	MB I MH	MAILBOX MANHOLE	Т	EL PED	TELEPHONE TELEPHONE PEDESTAL	AND CITY OF MINEOLA IN THE SPECIFICATIONS. COST OF COMPLIANCE WITH SPECIAL CONDITIONS SHALL BE SUBSIDIARY TO PROPOSED INSTALLATION.
CU		01 //	MAX		T	FR		22. NOTIFY ALL UTILITY COMPANIES INVOLVED TO HAVE THEIR UTILITIES LOCATED AND MARKED IN THE
	DEFLECTION AN	IGLE	MFGR	MANUFACTURER	Т	OP	TOP OF PIPE	FIELD. ALL UNDERGROUND UTILITIES SHALL THEN BE UNCOVERED TO VERIFY LOCATION AND
DI DIA	DUCTILE IRON DIAMETER		MIN MISC	MINIMUM MISCELLANEOUS	T T	DS DF	TOP OF SLOPE TOP OF FOOTING	INSPECTOR MUST BE ON SITE WHEN LOCATING OR EXCAVATING NEAR UTILITIES. LOCATING UTILITIES
DR E	DRIVE EAST		N I NTS I	NORTH NOT TO SCALE	Т Т	WC P	TOP OF WALL TRAVERSE POINT	
EA FLEC			N/A I No	NOT APPLICABLE NUMBER	T	PT	TRAVERSE TURNING POINT	23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE CITY OF MINEOLA, PIPELINE, AND
ELEV	ELEVATION		OCEW	ON CENTER EACH WAY	V	ERT	VERTICAL	UTILITY COMPANIES HAVING PROPERTY IN THE AREA OF CONSTRUCTION A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND CONTINUAL COORDINATION AS REQUIRED
EOC	ENCASEMENT EDGE OF CONC	RETE	PC	POINT OF CURVATURE		PI PC	VERTICAL POINT INVERSE VERTICAL POINT CURVATURE	
EOG EOP	EDGE OF GRAV	EL CT	PI I PL I	POINT OF INVERSION PIPELINE	V W	PT ′	VERTICAL POINT TANGENCY WATT	CITY OF MINEOLA (903) 569-2535
EX FC		3	PP I PR	POWER POLE PRESSURE RATED	W NA	/TR /WF	WATER WEI DED WIRE FARRIC	DIGTESS         (800) 344-8377           TEXAS ONE CALL         (800) 245-4545
FNC	FENCE	-	PRC	POINT OF REVERSE CUI	RVATURE w	//////////////////////////////////////	WITH	LONE STAR NOTIFICATION CENTER (800) 545-6005 AEP/SWEPCO (888) 216-3523
FH	FIRE HYDRAN F		PSI	POUNDS PER SQUARE I	NCH W	/M	WITHOUT WATER METER	AT&T (800) 464.7928 CENTERPOINT ENERGY (800) 660 8344
FD FT	FOUND FEET (FOOT)		PT I PVC I	POINT OF TANGENCY	N N	V	WATER VALVE	SUDDENLINK COMMUNICATIONS (903) 572-6107
GAL GALV	GALLON GALVANIZED		PVMT I ROW	PAVEMENT RIGHT OF WAY				
GM	GAS METER		RCP	REINFORCED CONCRET	E PIPE			
GUT GV			REINE					

### S:

ATERIALS SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL DURING ND UPON COMPLETION. MATERIALS USED IN CONSTRUCTION SHALL BE SUBMITTED R FOR REVIEW AND APPROVAL IN ACCORDANCE WITH SECTION 01300 OF THE

BS, FENCES, UTILITIES, STRUCTURES AND OTHER COMPONENTS OF MATERIAL VALUE BY ENGINEER AS A HINDRANCE TO CONSTRUCTION SHALL BE CATEGORIZED AS S. WASTE MATERIALS SHALL ALSO INCLUDE ALL OTHER PRODUCTS AND DEMOLITION ACTIVITY THAT CANNOT BE REUSED FOR CONSTRUCTION, SPOILS, ER WASTE GENERATED DURING CONSTRUCTION. CONTRACTOR SHALL NOT STOCK S ON SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL WASTE DON AS THE PROJECT CONSTRUCTION IS ACKNOWLEDGED AS COMPLETE BY THE

RIAL SHALL BE LEGALLY DISPOSED OF OFF-SITE. COPIES OF AGREEMENTS BETWEEN R AND PROPERTY LAND OWNER OF DISPOSAL SITES SHALL BE FURNISHED TO THE

R SHALL REVIEW PROPOSED WASTE SITES FOR MATERIAL TO BE WASTED FROM THE ACTOR SHALL DETERMINE IF ANY WASTE SITES ARE LOCATED IN A "BASE DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). IF WASTE THIS PROJECT IS TO BE PLACED IN A "BASE FLOODPLAIN" AS DEFINED BY FEMA, THE ALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED.

ALLOWED UNLESS OTHERWISE NOTED. TREE BRUSH SHALL BE REMOVED AND THE CONTRACTOR. DIRT AND ROCK SHALL BE SEPARATED FROM BRUSH.

ERIALS NOT MEETING SPECIFICATIONS SHALL BE CONSIDERED WASTE AND SHALL BE -SITE.

INICAL SPECIFICATION SECTION 01552, AND BID ITEM FOR STORM WATER POLLUTION R CONSTRUCTION REQUIREMENTS. CONTRACTOR SHALL COMPLY WITH ALL HE STORM WATER POLLUTION PREVENTION PLAN, PREPARE ALL REQUIRED PLANS X, AND FILE A NOTICE OF INTENT AND NOTICE OF TERMINATION, AND PAY ALL FEES APPLICATION, PERMITTING, RENEWAL, AND IMPLEMENTATION. THE CONTRACTOR URBIDITY IN WATERWAYS DURING ALL PHASES OF THE PROJECT. THE CONTRACTOR DEQUATE METHODS TO INSURE MINIMUM TURBIDITY FROM NEAR AND LONG TERM ., SPOIL, AND/OR DEVEGETATED AREAS DURING AND FOLLOWING CONSTRUCTION. R SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS CONCERNING N AND CONTROL OF EROSION.

INAGE SHALL BE MAINTAINED DURING CONSTRUCTION SO THAT PONDING OF F DOES NOT OCCUR AND CAUSE CONSTRUCTION DELAYS, INHIBIT SITE ACCESS, OR PROPERTY. THE COST OF MAINTAINING SITE DRAINAGE SHALL BE INCLUDED IN THE DURING CONSTRUCTION BID ITEM.

ALL CLEAR ALL DEBRIS AND SEDIMENT FROM CONSTRUCTION OPERATIONS AND TORM SEWER INLETS, PIPES, CURB AND GUTTER, AND JUNCTION BOXES PRIOR TO CE.

ALL KEEP DIRT, MUD AND DEBRIS OFF THE PUBLIC STREETS AND OUT OF INLETS AND ND THE PROJECT. CONTRACTOR SHALL IMMEDIATELY CLEAN DIRT, MUD AND DEBRIS REETS AND FROM AROUND INLETS AND CULVERTS AS SOON AS IT IS NOTICED BY THE NOTIFIED BY THE ENGINEER OR OWNER.

R SHALL PROVIDE AND MAINTAIN ALL WEATHER ACCESS TO ALL PROPERTY OWNERS FECTED BY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL GIVE 48 HOURS JSINESS OWNERS, PROPERTY OWNERS, AND/OR TENANTS PRIOR TO OBSTRUCTING UILDING ENTRANCES FOR CONSTRUCTION PURPOSES. CONTRACTOR SHALL ARY MEANS OF INGRESS/EGRESS AT ALL TIMES WHILE DRIVEWAYS OR BUILDING OBSTRUCTED.

ALL MAINTAIN MAILBOXES AND ALL OTHER PUBLIC AND PRIVATE PROPERTY DURING ALL MATERIALS AND PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE ISTALLED WITH EQUAL OR BETTER THAN ORIGINAL MATERIALS, AS APPROVED BY NO ADDITIONAL COST TO THE OWNER.

EMENTS INCLUDING, BUT NOT LIMITED TO, PAVEMENT, FENCES, CULVERTS, EMS, HEADWALLS, SIDEWALKS, CURBS, UTILITY PIPELINES, AND DRAINAGE ICH ARE REMOVED, ALTERED, OR DAMAGED TO PERMIT INSTALLATION OF THE WORK ED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE, IN THE AND IN A CONDITION AS GOOD OR BETTER THAN FOUND.

EMENT SHALL BE SAWCUT TO ENSURE A STRAIGHT SMOOTH SURFACE. ALL CUTS IN EWAYS, OR OTHER PAVEMENT SHALL BE SAWCUT IN STRAIGHT PERPENDICULAR DICATED DIFFERENTLY IN THE PLANS.

ALL INSTALL AND MAINTAIN A TEMPORARY SURFACE ON ALL OPEN CUT PAVEMENT USE OF ALL ROADWAYS AND DRIVEWAYS.

HALL BE CLASS "A", 3500 PSI @ 28 DAYS UNLESS OTHERWISE NOTED.

PECIFICATIONS FOR ADDITIONAL GENERAL NOTES.

				MARK REVISION DATE	I \\KSA-TLY-SERVER3\PROJECTS\PROJECTS\MN160\008 CAD\30	SHEETS\ MN160 - C - GI - NOTE.DWG   GNOTES   1/30/2019 - 8:45 AM	DRAWING PATHINAME   LAYOUT   PLOT DATE - TIME
		LEGEND, ABBREVIATIONS			CONSTRUCTION NOTES		SHEET NAME:
	CITY OF MINFOLA	UTILITY INFRASTRUCTURF			FOR SANDERSON FARMS	MINEOLA. TEXAS	PROJECT NAME:
DRAWN RV.	NR	DESIGNED BY:	CA	LATEST REVISION:	8/29/2017	KSA JOB NO.:	MN-160
				_	2701 Out Divid Tudor Towar 75703	T. 903-581-8141 F. 903-581-6853	www.ksaeng.com
	THIS RE COPY C FOR TH CHANG NFORM NFORM AND/O EEPRES PROVICE OTHER: ENGINE COM DRAWI	CORD DR F THE SEA IS PROJEC E ORDERS AATION F R THE RES ENTATIVE ED BY TH S NOT ASS ER CANN APLETENEN NGS ARE (	AWING ALED EN JT; MOD S, FIELD URNISH GIDENT E. THE II E CONT SOCIATI OT BE V SOCIATI OT SE V SOCIATI OT SE V SOCIATI	I IS A C( IGINEE DIFIED I WORK IED BY ' PROJEC VIFORM TRACTO ED WIT YERIFIE E ORIGI AT THI	DMPILA RING DI ORDER THE CO TI IATION R AND/ H THE C D FOR A NAL SEJ E OFFIC	TION C RAWIN ENDA, S, AND THAT V OR DESIGN ACCURA ALED ES OF F	of A G TOR VAS ACY SSA.
SE TE SF	AL: BPE F	irm Re	egistra	ation	No. F	-135	6







![](_page_16_Figure_0.jpeg)

ST SAVED BY: NR

![](_page_17_Figure_0.jpeg)

APPROX. 860 LF OF 4"	APPROX. 490 LF OF 4" RESTRAINED	APPROX. 14 LF OF 1
SDR 21 PVC FORCE MAIN	JOINT SDR 21 PVC FORCE MAIN	GRAVITY SEW.

![](_page_18_Figure_0.jpeg)

![](_page_19_Figure_0.jpeg)

![](_page_20_Figure_0.jpeg)

![](_page_20_Figure_2.jpeg)

![](_page_20_Figure_3.jpeg)

![](_page_20_Figure_4.jpeg)

	TEES
PIPE SIZE	THRUS BLOCKIN REQUIRED
2 1/2"	0.61
3"	0.88
4"	1.57
6"	3.53
8"	6.28
10"	9.82
12"	14.14
14"	19.24
16"	25.13
18"	31.81
20"	39.27
24"	56.55
30"	88.36
36"	127.23

STANDARD SPECIFICATIONS FOR FIRE HYDRANTS FOR ORDINARY WATER WORKS SERVICE, C-502.SEE

PAYMENT WILL BE MADE FOR FIRE HYDRANTS DEEPER

4. FIRE HYDRANTS SHALL BE PAINTED BLACK WITH RED AND WHITE REFLECTIVE TAPE INSTALL AROUND

- MJ x MJ TEE

![](_page_21_Figure_0.jpeg)

![](_page_22_Figure_0.jpeg)

![](_page_23_Figure_0.jpeg)

![](_page_24_Figure_0.jpeg)

	MAXIMUM	MINIMUM LENGTH	PIPE R REQU	UNNERS IRED	REQUIRED PIPE RUNNER SIZES			
)	SLOPE	OF UNIT	SINGLE PIPE	MULTIPLE PIPE	NOMINAL DIA.	O.D.	I.D.	
7"	6:1	4′-9"	No	Yes, for ≻2 pipes	3" STD	3.500"	3.068"	
¹ /2 "	6:1	6′-5″	No	Yes, for ≻2 pipes	3" STD	3.500"	3.068"	
4 "	6:1	8′-0"	No	Yes, for ≻2 pipes	3" STD	3.500"	3.068"	
ן יי	6 <b>:</b> 1	11′-3″	No	Yes, for >2 pipes	3" STD	3.500"	3.068"	
1/2 "	6:1	14′-8″	No	Yes	4" STD	4.500"	4.026"	
1/2 "	6:1	17′-11″	Yes	Yes	4" STD	4.500"	4.026"	
1/2 "	6:1	21′-2"	Yes	Yes	4" STD	4.500"	4.026"	

(1) Dimension "D" is based on ASTM C-76, Class III, Wall "B" thickness. If any other wall thickness is used, dimension "D" must be adjusted accordingly.

2 Slope as shown elsewhere in the plans. Slope of 6:1 or flatter is required

(3) Toewall to be used only when dimension is shown elsewhere in the plans.

(4) The top 4" of void between Precast End Treatments shall be filled with concrete Riprop and shall be considered subsidiary to Safety End Treatment.

(5) Clear distance between pipes shall be adjusted to provide for the minimum distance between safety end treatments.

(6) Cement stabilized bedding and backfill shall be in accordance with the Item, "Excavation and Backfill for Structures". Bedding and backfill shall be considered subsidiary to the Item "Safety End Treatment". When concrete riprop is specified around the safety end treatment, backfill shall be as

Precast safety end treatment for reinforced concrete pipe may be used for TYPE II end treatment as specified in Item "Safety End Treatment". When Precast Safety End Treatment is used as a Contractor's alternate to mitered RCP, Riprap will not be required unless noted otherwise on

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete

Manufacture of this product shall conform to requirements of Item "Safety End Treatment" except as noted below :

A. Minimum reinforcing shall be #4 at 6" (Grade 40)

or #4 at 9" (Grade 60) each way or 6 x 6 - W12 x W12

or 5 x 5 - W10 x W10 welded wire reinforcement (WWR). B. Concrete for precast (steel formed) sections shall be Class "C"

with a minimum compressive strength of 3600 psi.

At the option and expense of the Contractor the next larger size of Safety End Treatment may be furnished; as long as the "D" dimension cast is that of the required size of pipe.

Pipe Runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981. Pipe Runners shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

All steel components except reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.

Texas Department	of Tra	nsp	ort	ation	1	Bi Di Si	ridge ivision tandard	
PRECAST	SA	<i>٩F</i>	E	ΓΥ	E	ΞN	D	
TRE	EAT	⁻ M	E	NT	•			
ΤΥΡΕ ΙΙ ~ ΡΑ	RAL	LE	L	DF	RA	IN	AGE	
	F	25	E7	r-5	5P			
FILE: psetspss.dgn	DN: RLV	V	СК:	KLR	DW:	JTR	ск: GAF	
©TxDOT February 2010	CONT	SECT		JOB			HIGHWAY	
REVISIONS								
11-10: Add note for synthetic fibers,	DIST			COUNTY			SHEET NO.	
,							15	

![](_page_25_Figure_0.jpeg)

ELEMENTARY DIAGRAM SYMBOLS	SINGLE LINE DIAGRAM SYMBOLS	ABBREVIATIONS	SHEET NUMBER DESIGNATION
ELEMENTARY DIAGRAM SYMBOLS         SELECTOR SWITCH N.C.         SELECTOR SWITCH N.O.         SELECTOR SWITCH N.O.         SELECTOR SWITCH N.O.         SF       TIME DELAY ON DE-ENERGIZATION N.C.         SF       TIME DELAY ON DE-ENERGIZATION N.O.         SF       TIME DELAY ON ENERGIZATION N.O.         SF       PRESSURE SWITCH N.O.         SF       PRESSURE SWITCH N.O.         SG       PRESSURE SWITCH N.O.         CLOSES ON FALLING PRESSURE       PRESSURE SWITCH N.O.         SG       PRESSURE SWITCH N.O.         CLOSES ON FALLING PRESSURE       PRESSURE SWITCH N.O.         CLOSES ON RISING PRESSURE       DIMIT N.C.         SF       PRESSURE SWITCH N.O.         CLOSES ON RISING PRESSURE       DIMIT N.C.         SF       PRESSURE SWITCH N.O.         CLOSES ON RISING TEMP       OPENS ON RISING TEMP         SF       FOR NON CLOSES         SF       FLOW N.C. OPENS         SF       FLOW N.C. OPENS         SF SF ON RISING TEMP	SINGLE LINE DIAGRAM SYMBOLS	<section-header><section-header><section-header><text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></section-header></section-header></section-header>	SHEET NUMBER DESIGNATION
NORMALLY OPEN PUSH     BUTTON SPRING RETURN			
NORMALLY CLOSED PUSH BUTTON SPRING RETURN		SEE LIGHT SCHEDULE FLOOD LIGHT WITH AIMING POINT	
		SEE SCHEDULE WALL MOUNT LIGHT SEE LIGHT SCHEDULE	PDP 41.1 PANEL SCHEDU
CONTACT N.O. RELAY OR DEVICE CONTACT CONTACT N.C. RELAY OR DEVICE CONTACT	U.L. 1449-TYPE I SURGE PROTECTIVE DEVICE > 600 VAC AHEAD OF SERVICE	POLE MOUNT LIGHT SEE LIGHT SCHEDULE H HEATER	
THERMAL OVERLOAD		EXHAUST/SUPPLY	
↓ TERMINAL-DEVICE	(AM) AMMETER	HANDHOLE OR MANHOLE GFCI DUPLEX RECEPTACLE	
	LS LOAD SHED	QUAD-DUPLEX RECEPTACLE FLOOR MOUNTED FLUSH	
$\begin{array}{c} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\$	M UTILITY REVENUE METER VM VOLTMETER WHM WATTHOUR METER 3 KIRK KEY INTERLOCK	30 COPPER CLAD GROUND ROD         30' COPPER CLAD GROUND ROD WITH         ACCESSIBLE GROUND CONNECTION         IGHTNING ROD         SEE SCHEDULE         T         THERMOSTAT         Image: Search of the search	NAMEPLATE: PDP 41.1, 70A BUS, 120/240 VOLT, 1 PHASE, 3 WIRE, 60 HZ, 10 KAIC, 100% RATED NEUTRAL, SUI         NOTES       CIRCUIT DESCRIPTION         LOAD KVA       AMPS/POLES       CKT NO       CKT NO       CKT NO       AMPS/POLES         AUTO DIALER       0.1       -       20/1       1       2       20/1
3-WAY SWITCH	27     UNDER VOLTAGE RELAY       47     PHASE SEQUENCE RELAY       50     INSTANTANEOUS OVER		-         0         20/1         3         4         20/1           TOTAL KVA         0.10         0.00         50A/2 POLES         000         MAIN         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         0000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         000         <
3 WIRE RTD	CURRENT RELAY GROUND FAULT INSTANTANEOUS OVER CURRENT RELAY GROUND SENSOR	CONDUIT TURNED OP CONDUIT TURNED DOWN ABOVE GROUND EXPOSED CONDUIT CENTER LINE DUCT BANK 24" BELOW GRADE	Indited.         INDITES.           1.
LED LIGHT	51 TIME OVER CURRENT RELAY 51 GROUND FAULT TIME OVER CURRENT RELAY	ENCASED IN BUILDING     STRUCTURE OR SLAB     4/0 COPPER GROUND CABLE     BURIED 24" BELOW GRADE     WITH CADWELD CONNECTOR	
	CIRCUIT BREAKER CS CS CONTROL SWITCH	OE-OT     O	
PHOTOCELL SPACE HEATER	59OVER VOLTAGE RELAY83AUTOMATIC TRANSFER RELAYNFPA 110 TYPE 60	FO     OVERHEAD FIBER OPTIC     OVERHEAD CABLE TV	
DUPLEX RECEPTACLE	CLASS 12, LEVEL 2	T       OVERHEAD TELEPHONE LINE         B       BORED CONDUIT         GAS       NATURAL GASLINE         CB       CASED BORE         A       RADIO TELEMETRY         HOME RUN FROM DEVICE TO PANEL (ABOVE GROUND)	
<b>BOLD LINES INDICATE PROPOSED ELECTRICAL</b> 1/2 TONE LINES INDICATE NON-ELECTRICAL, EXISTING	NOT ALL SYMBOLS AND ABBREVIATIONS ARE SHOWN ON THE DRAWINGS.	HOME RUN FROM DEVICE TO PANEL (BELOW GROUND) S SWITCH, 125/277V., 20A., SINGLE POLE SINGLE THROW SWITCH, 125/20A., DOUBLE POLE SINGLE THROW	

1/2 TONE LINES INDICATE NON-ELECTRICAL, EXISTING ELECTRICAL, OR FUTURE

SWITCH, 125/20A., DOUBLE POLE SINGLE THROW SWITCH, 125/20A., THREE-WAY SWITCH, 125/20A., FOUR-WAY

S₃

PULL BOX DETAIL	MARK REVISION DATE MARK REVISION DATE INSA-SERVER3IP DRIVE/PROJECTS/MN160/008 CAD/30 SHEETS/20190416 RECORD DRAWINGS/ MN160-E-DT-MISC_REC.DWG   ELECTRICAL DETAILS I   MN160-E-DT-MISC_REC.DWG   ELECTRICAL DETAILS I   MN160-E-DT-MISC_REC.DWG   ELECTRICAL DETAILS I   MN160-E-DT-MISC_REC.DWG   ELECTRICAL DETAILS I
DO NOT PROVIDE PULL BOXES THAT HAVE MORE THAN ONE CONDUIT IN AND ONE CONDUIT OUT UNLESS SPECIFIED ON DRAWINGS.	ELECTRICAL DETAILS I SHEET NAME:
SHEDULE	RAWN BY: MBCITY OF MINEOLAMBUTILITY INFRASTRUCTUREIcioned BY: LIPSUTILITY INFRASTRUCTURELIPSUTILITY INFRASTRUCTUREIcioned BY: LIPSIMPROVEMENTSIcioned BY: LIPSI
NEUTRAL, SURFACE MOUNTED, LOCATED ON RACK, NEMA 3R ENCLOSURE          LINE 1       LINE 2       NOTES         20/1       0.1       -       AREA LIGHT       -         20/1       -       0       -       -         1.67       0.00       TOTAL KVA       -       -         0.83       TOTAL CONNECTED AMPS AT 240 VOLT       -       -	6781 Oak Hill Blvd., Tyler, Texas 75703 T. 903-581-6853 www.ksaeng.com
	THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE DESIGN PROFESSIONAL HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.
<b>RECORD DRAWING</b>	SHEET NO. E-6.1

![](_page_27_Figure_0.jpeg)

![](_page_28_Figure_0.jpeg)

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					REVISION I	64-SEBVER3/D DRIVE/DBO JECTS/MN160/008 CAD/30	ACCORDING TRANSPORT OF THE TRANSPORT OF T	KRNB-PATHRMAme   LAYOUT   PLOT DATE - TIME
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						FOR SANDERSON FARMS	MINEOLA. TEXAS	PROJECT NAME:
DRAWN BY:	MB			LPS	LATEST REVISION:	4/16/2019	KSA JOB NO.:	MN-160
							6781 Oak Hill Blvd., Tyler, Texas 75703 T. 903-581-8141 F. 903-581-6853	www.ksaeng.com
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# **RECORD DRAWING**