AGENDA ITEM

30 E

ARF-20602

REGULAR SESSION AGENDA

Meeting Date: 01/05/2016

Discussion Item

Engineering

TITLE: Agreement: En-Touch: FM 1093/Westpark: Utilities

Submitted By: Jillian Peterson, Engineering

Originals for signature: Yes

Date Approved by County Attorney: 12/22/2015 County Attorney Initials: MS

Information

SUMMARY OF ITEM:

Take all appropriate action on Standard Utility Agreement between Fort Bend County and En-Touch Systems in an amount not to exceed $41,876.18 for utility relocations regarding FM 1093/Westpark, Mobility Bond Project No. 748, Precinct 3. (Fund: 2007 Mobility Bonds)

FUNDING SOURCE:

Accounting Unit, Project or Grant Name;
Account Name;

SPECIAL HANDLING:

Attachments

Agreement: En-Touch: FM 1093/Westpark: Utilities

STANDARD UTILITY AGREEMENT

U-0008: En-Touch Systems
County: Fort Bend
Highway: FM 1093 Westpark Extension

This Agreement by and between the County of Fort Bend, Texas, (**"County"**), and En-Touch Systems, ("**Utility**"), acting by and through its duly authorized representative, shall be effective on the date of approval and execution by and on behalf of the **County**.

WHEREAS, the **County** has deemed it necessary to make certain highway improvements as designated by the **County** and approved by the Federal Highway Administration within the limits of the highway as indicated above;

WHEREAS, the proposed highway improvements will necessitate the adjustment, removal, and/or relocation of certain facilities of **Utility** as indicated in the following statement of work: relocation of assets (Overhead Facilities) into a predesignated corridor according to the following schedule:

Start Date – January 01, 2015
(Pending completion of CenterPoint Energy Overhead Relocation)
Completion Date – February 29, 2016
(Based on January 1, 2016 Start Date)

WHEREAS, Subchapter E of Chapter 203 of the Texas Transportation Code regarding the relocation of utilities does not apply to this Project, but the County wishes to negotiate in good faith and enter into agreements with all affected utility companies for the participation in the costs of the adjustment, removal, and/or relocation of certain facilities as authorized under such subchapter.

WHEREAS, the **County,** upon receipt of evidence it deems sufficient, acknowledges **Utility's** interest in certain lands and/or facilities and determined it is appropriate to enter an agreement with **Utility** to govern the terms for participation in the costs of the adjustment, removal, and relocation of certain of its facilities located upon the lands as indicated in the statement of work above.

NOW, THEREFORE, BE IT AGREED:

The **County** will pay to **Utility** fifty percent (50%) of the documented actual costs incurred for relocation of the overhead utility in adjustment, removal, and/or relocation of **Utility's** facilities up to the amount said costs may be eligible for **County** participation.

All conduct under this agreement, including but not limited to the adjustment, removal and relocation of the facility, the development and reimbursement of costs, any environmental requirements, and retention of records will be in accordance with all applicable federal and state laws, rules and regulations, including, without limitation, the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act, 42 U.S.C. §§ 4601, et seq., the National Environmental Policy Act, 42 U.S.C. §§ 4231, et seq., the Buy America provisions of 23 U.S.C. § 313 and 23 CFR 635.410, the Utility Relocations, Adjustments, and Reimbursements provisions of 23 CFR 645, Subpart A, and with the Utility Accommodation provisions of 23 CFR 645, Subpart B. **Utility** shall supply, upon request by the **County**, proof of compliance with the aforementioned laws, rules and regulations prior to the commencement of construction.

The **Utility** agrees to develop relocation or adjustment costs by accumulating actual direct and related indirect costs in accordance with a work order accounting procedure prescribed by **County**, or may, with the **County's** approval, accumulate actual direct and related indirect costs in accordance with an established accounting procedure developed by **Utility**. Bills for work hereunder will be submitted to **County** not later than 90 days after completion of the work.

When requested, the **County** will make intermediate payments at not less than monthly intervals to **Utility** when properly billed and such payments will not exceed 90 percent (90%) of the eligible cost as shown in each such billing. Intermediate payments shall not be construed as final payment for any items included in the intermediate payment.

	1/5/16		12/22/15
	Date	Initial	Date
Fort Bend County		En-Touch Systems	

Upon execution of this agreement by both parties hereto, the **County** will, by written notice, authorize the **Utility** to perform such work diligently, and to conclude said adjustment, removal, or relocation by the stated completion date. The completion date shall be extended for delays caused by events outside **Utility's** control, including an event of Force Majeure, which shall include a strike, war or act of war (whether an actual declaration of war is made or not), insurrection, riot, act of public enemy, accident, fire, flood or other act of God, sabotage, or other events, interference by the **County** or any other party with **Utility's** ability to proceed with the relocation, or any other event in which **Utility** has exercised all due care in the prevention thereof so that the causes or other events are beyond the control and without the fault or negligence of **Utility**.

However, for any failure by **Utility** to conclude said adjustment, removal, or relocation by the stated completion date not caused by events outside **Utility's** control, the **County** may elect to: (1) reduce the reimbursement to **Utility** by one percent (1%) each day delayed; or (2) relocate the facility at the sole cost and expense of **Utility**.

The **County** will, upon satisfactory completion of the relocation or adjustment and upon receipt of final billing prepared in an approved form and manner, make payment in the amount of 90 percent (90%) of the eligible costs as shown in the final billing prior to audit and after such audit shall make an additional final payment totaling the reimbursement amount found eligible for **County** reimbursement.

Unless an item below is stricken and initialed by the **County and Utility**, this agreement in its entirety consists of the following:

1. Standard Utility Agreement;
2. Utility Construction Costs (Exhibit "A");
3. Final Plans and Specifications (Exhibit "B");
4. Utility's Schedule of Work and Estimated Date of Completion (Exhibit "C").

All exhibits are included herein as if fully set forth. In the event it is determined that a substantial change from the statement of work contained in this agreement is required, reimbursement therefore shall be limited to costs covered by a modification or amendment of this agreement or a written change or extra work order approved by the **County and Utility**.

This agreement is subject to cancellation by the **County** at any time up to the date that work under this agreement has been authorized and that such cancellation will not create any liability on the part of the **County.** However, the **County** will review and reimburse the **Utility** for eligible costs incurred by the **Utility** in preparation of this Agreement.

The **Utility** acknowledges to and for the benefit of the **County** and State of Texas that it understands the project under this Agreement is eligible for Federal-aid highway funds and as such, requires all of the iron, steel, and manufactured goods used in the project be produced in the United States ("Buy American Requirements") including iron, steel, and manufactured goods provided by the **Utility** pursuant to this Agreement.

The State Auditor may conduct an audit or investigation of any entity receiving funds from the **County** directly under this contract or indirectly through a subcontract under this contract. Acceptance of funds directly under this contract or indirectly through a subcontract under this contract acts as acceptance of the authority of the State Auditor, under the direction of the Legislative Audit Committee, to conduct an audit or investigation in connection with those funds. An entity that is the subject of an audit or investigation must provide the state auditor with access to any information the state auditor considers relevant to the investigation or audit.

The **Utility** by execution of this agreement does not waive any of the rights which **Utility** may have within the limits of the law.

It is expressly understood that the **Utility** conducts the adjustment, removal, or relocation at its own risk, and that Fort Bend County, Texas makes no warranties or representations regarding the existence or location of utilities currently within its right of way.

	1/5/16	WHP	12/22/15
	Date	Initial	Date
Fort Bend County		En-Touch Systems	

The signatories to this agreement warrant that each has the authority to enter into this agreement on behalf of the party represented.

UTILITY

Utility: En-Touch Systems
Name of Utility

By: _____
Authorized Signature

Wesley Pennix
Print or Type Name

Title: Manager-OSP Engineering

Date: 12/22/15

EXECUTION RECOMMENDED:

Fort Bend
COUNTY

By: _____
Authorized Signature

Robert Hebert
Print or Type Name

Title: County Judge

Date: January 13, 2016

1/5/16
Date
Fort Bend County

WHP 12/22/15
Initial Date
En-Touch Systems

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY

CERTIFICATION OF FILING

Certificate Number:
2016-1183

Date Filed:
01/05/2016

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

En-Touch Systems, Inc.
Houston, TX United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

Fort Bend County

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the goods or services to be provided under the contract.

23381
23381 - 1/5/16 - Utility Relocation regarding FM 1093/Westpark, Mobility Bond Project no. 748

4

Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary

5 Check only if there is NO Interested Party. [X]

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

REBECCA H. BEVEL
Notary Public, State of Texas
My Commission Expires
January 20, 2018

Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said BRENDAN McMAHON, this the 7th day of JANUARY, 20 16, to certify which, witness my hand and seal of office.

Signature of officer administering oath | Printed name of officer administering oath: REBECCA H. BEVEL | Title of officer administering oath: NOTARY

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

Complete Nos. 1 - 4 and 6 if there are interested parties.
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

OFFICE USE ONLY
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01/13/2016

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En-Touch Systems, Inc.
Houston, TX United States

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Fort Bend County

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23381
23381 - 1/5/16 - Utility Relocation regarding FM 1093/Westpark, Mobility Bond Project no. 748

4 Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
		Controlling	Intermediary

5 Check only if there is NO Interested Party. [X]

6 AFFIDAVIT

I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

_____
Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said _____, this the _____ day of _____, 20_____, to certify which, witness my hand and seal of office.

_____
Signature of officer administering oath | Printed name of officer administering oath | Title of officer administering oath

Exhibit A

(9 Pages to Follow)

En-Touch Systems, Inc.

Master Contract Pricing Cost Estimate

Entouch Systems

Job Number:	**WO15CFB1074**
Community:	**Ft Bend County**
Section:	**FM 1093 Road widening**
Contractor:	**Elite**

Project Description:	**Westpark Tollway Extension**

Labor	$37,503.00
NHPL	$0.00
Eng/Permits	$13,979.55
Material	$32,269.81
Total Cost	**$83,752.36**

Exhibit A - Labor

ETS #	Aerial Construction - Fiber Construction	Pricing		Total
Aer-001	**Strand** - Installation of all strand and hardware for a complete installation. Also includes all anchors, side arms. Bonds, and vertical grounds as required.	$ 0.30	13700	$ 4,110.00
Aer-002	**Strand - Under 1,000'** - Installation of all strand and hardware for a complete installation. all anchors, side arms. Bonds, and vertical grounds as required.	$ 0.35		$ -
Aer-003	**Lash Fiber** - Includes the installation (lash) of up to (2) fiber cables. Includes placement of of all verticals. Max 10 poles without a vertical. Includes placement of ID Tags	$ 0.52	13700	$ 7,124.00
Aer-004	**Lash Fiber under 1,000'** - Includes the installation (lash) of up to (2) fiber cables. Includes placement of all verticals. Max 10 poles without a vertical. Includes placement of ID Tags	$ 0.60		$ -
Aer-005	**Each Additional Fiber** - For new strand	$ 0.23		$ -
Aer-006	**Over lash Fiber** - Over lash Installation of a single cable.	$ 0.60		$ -
Aer-007	**Over lash Additional Fiber** - Over lash Installation of each additional cable.	$ 0.18		$ -
Aer-008	**DE lash/Relash** - Includes remove and relah of a single cable	$ 0.55		$ -
Aer-009	**Tree Trim** - Will pay for entire span - Must have pre-approval.	$ 0.25		$ -
Aer-010	**Lash Storage Loops** - Slack to be lashed and stored in snowshoes. - Not included in lash fiber	$ 75.00		$ -
Aer-011	**Chase Slack Loop** -DE lash, Relash, pull slack to new location	$ 0.75		$ -
Aer-012	**Wreck Out** - Includes wreck out and disposal. Contractor keeps all scrap material.	$ 0.18	15000	$ 2,700.00
Aer-013	**Pole Transfer** - Complete transfer included	$ 31.00	1	$ 31.00
Aer-014	**Pole Attachment**	$ 15.00	75	$ 1,125.00
Aer-015	**Install Down Guy**	$ 19.50	6	$ 117.00
Aer-016	**Remove Down Guy**	$ 12.00		$ -
Aer-017	**Sidewalk Guy**	$ 23.55		$ -
Aer-018	**Place Tree Guard**	$ 3.50		$ -
Aer-019	**Place Overhead Guy**	$ 23.50		$ -
Aer-020	**Remove/replace guy guard**	$ 5.25		$ -
Aer-021	**Place bond not included**	$ 2.75		$ -
Aer-022	**Remove/replace down guy guy.**	$ 15.00	6	$ 90.00
Aer-023	**Install Anchor**	$ 25.00	5	$ 125.00
Aer-024	**Install extension arm/standoff**	$ 15.00		$ -
Aer-025	**Re-sag Strand**	$ 0.38		$ -
Aer-026	**Set Class 3 Pole**	$ 425.00		$ -
Aer-027	**Riser Transfer to new pole**	$ 75.00	1	$ 75.00
Aer-028	**Placement of Snowshoes and repair storage loop.** - Not included in lash fiber	$ 100.00	4	$ 400.00

ETS #	Fiber Splicing				
Fib-001	**Fusion Splice** (1-24)- Includes the instalation of all enclosures, end to end testing with documentation. Fiber Cable prep fees not included. **USE THIS ON ALL CCR's**	$ 25.00		$	-
Fib-008	**Fusion Splice** (25-48)- Includes the instalation of all enclosures, end to end testing with documentation. Fiber Cable prep fees not included.	$ 22.00	0	$	-
Fib-009	**Fusion Splice** (49-96)- Includes the instalation of all enclosures, end to end testing with documentation. Fiber Cable prep fees not included.	$ 21.00	0	$	-
Fib-010	**Fusion Splice** (97-288)- Includes the instalation of all enclosures, end to end testing with documentation. Fiber Cable prep fees not included.	$ 18.00	192	$	3,456.00
Fib-002	**Fiber Cable Prep Fee/Mid Span Entry (This covers entire fiber drop ped fee)**	$ 75.00	4	$	300.00
Fib-003	**Enclosure Re-Entry**	$ 100.00	2	$	200.00
Fib-005	**Remount Fiber Enclosure**	$ 100.00		$	-
Fib-006	**Fiber mapping/Troubleshooting - Per location**	$ 50.00		$	-
ETS #	Underground Construction				
UG-001	**Machine Trench 36" Cover** - Includes installation of up to (3) cables, mule tape, and locate wire as required. Includes all required bonding and grounding	$ 2.75		$	-
UG-002	**Machine Trench 48" Cover** - Includes installation of up to (3) cables, mule tape, and locate wire as required.	$ 3.25		$	-
UG-003	**Hand Dig 36" Cover** - Includes installation of up to (3) cables, mule tape, and locate wire as required. Includes all required bonding and grounding	$ 3.50		$	-
UG-004	**Hand Dig 48" Cover** - Includes installation of up to (3) cables, mule tape, and locate wire as required.	$ 4.00		$	-
UG-005	**2" Bore** - Includes the placement of conduit, mule tape, locate wire, and all bonding and grounding as required.	$ 7.50	2000	$	15,000.00
UG-006	**4" Bore** - Includes the placement of conduit, mule tape, locate wire, and all bonding and grounding as required.	$ 12.00		$	-
UG-007	Additional Cable In bore	$ 0.55		$	-
UG-008	**Place Large handhole -New Construction**	$ 150.00		$	-
UG-008b	**Place Large handhole - On Existing Plant**	$ 300.00		$	-
UG-009	**Place Ped - Includes $5 for XPAK**	$ 25.00		$	-
UG-010	**Place Handhole -New Construction**	$ 125.00	5	$	625.00
UG-010b	**Place Handhole- On Existing Plant**	$ 250.00		$	-
UG-011	**Place Ground Rod**	$ 15.00		$	-
UG-012	**Place Sign**	$ 8.50		$	-
UG-013	**Pull cable or fiber in conduit**	$ 0.55	2500	$	1,375.00
UG-014	**Place or rod cable or fiber in existing occupied conduit**	$ 0.75		$	-
UG-015	**Attach Conduit to Bridge**	$ 10.00		$	-
UG-016	**Sod/Tamp labor only**	$ 1.50		$	-
UG-017	**Place Locate wire through existing conduit with fiber**	$ 0.35		$	-
UG-018	Dig pit and place coupler to exist. Innerduct	$ 125.00		$	-
UG-019	Place FDT Cabinet	$ 500.00		$	-
UG-020	Concrete cutout (includes concrete saw, removal, hand dig, and concrete replacement)	$ 1,000.00		$	-
UG-021	Drill bolt pattern holes in HH for FDT cabinet	$ 100.00		$	-

UG-022	Rod conduit	$ 0.35		$ -
UG-023	Pull mule tape through conduit	$ 0.18		$ -
UG-024	CATV Node rentry node splits	$ 550.00		$ -
	ICTX Splicing and meet point costs	$ 5,000.00		$ -
ETS #	**Miscellaneous**			
Misc-001	**Underground Set Up Fee -** This is the fee for jobs less than 150' in length	$ 75.00		$ -
Misc-002	**Aerial Set Up Fee -** This is the fee for jobs less than 350' in length	$ 75.00		$ -
Misc-003	**After hours Fee -** This is for scheduled night work/per night for both aerial and u/g	$ 300.00		$ -
Misc-004	**Emergency Call-Out Mobilization for either aerial or U/G crews Fee for after hours**	$ 325.00	2	$ 650.00
Misc-005	**Emergency Call-Out Mobilization for both aerial and U/G crews Fee for after hours**	$ 450.00		$ -
Misc-006	**Emergency Call-Out Mobilization Fee for normal business hours for both aerial and u/g.**	$ 150.00		$ -
Misc-007	**Material Delivery and Pickup from NHPL**	$ 200.00		$ -
Misc-008	**Material Delivery and Pickup on site**	$ 350.00		$ -
ETS #	**Hourly - Hourly work charges on invoices must be pre-approved**			
HR-001	**Supervisor with Truck**	$ 52.50		$ -
HR-002	**Skilled with Truck**	$ 45.00		$ -
HR-003	**Skilled**	$ 35.00		$ -
HR-004	**Common**	$ 25.00		$ -
HR-005	**Mini Excavator**	$ 45.00		$ -
HR-006	**Bucket Truck**	$ 35.00		$ -
HR-007	**Arial Crew**	$ 130.00		$ -
ETS #	**Maintenance**			
Maint-001	**Span Replacements -** Includes full trench restoration as needed.	$ 4.75		$ -
Maint-002	**Replace Damaged Ped**	$ 26.50		$ -
Maint-003	**Replace Damaged Fiber Ped -** Splicing not included.	$ 125.00		$ -
Maint-004	**Trench Restoration -** Must be pre-approved by En-Touch	$ 0.75		$ -
Maint-005	**Material Costs -** Mark up on material provided by contractor	15%		$ -
ETS #	**Drop Bury**			
Drp-001	**Drop Bury -** Includes laying out or replacing the drop wire and bury of the wire at a minimum depth of 6". Includes completeing all connections, bonding, tagging, and bonding of copper and coax drops. Fiber drops are to be tagged and slack buried.	$ 75.00		
Drp-002	**Bore Drop -** Price per foot for any drop requiring a bore	$ 8.00		$ -

ETS #	DMARC					
DM-002	**Install 1 - 1/4"" EMT or PVC -**	**Labor Only**	$ 4.00		$ -	Per Foot
DM-007	**Install LB or C-Access for EMT -**	**Labor Only**	$ 18.00		$ -	Each
DM-008	**Install 6X6 EMT box**	**Labor Only**	$ 18.00		$ -	Each
DM-009	**Install Fiber Drops**		$ 95.00		$ -	
DM-003	**Drill Concrete Wall - Upt to 1-1/4"**		$ 50.00		$ -	
DM-004	**Drill Concrete Wall - Upt to 2"**		$ 75.00		$ -	
DM-005	**Mount Large Wall box - Box provided.** Installer to provide mounting hardware		$ 125.00		$ -	
DM-006	**Install C-Channel and slab for Calsense/Gate ONT or mount to Calsense**		$ 400.00		$ -	

*Mounting Primex type closures is included in splcing and not charged as box mount

Total $37,503.00

Total Cost $37,503.00

Exhibit A - NHPL

NHPL	Each/FT	Qty	Total
Joint Trench w/4 Utilities	$1.20		$0.00
Joint Trench w/3 Utilities	$1.30		$0.00
Joint Trench w/2 Utilities	$1.40		$0.00
Joint Trench w/1 Utilities	$2.75		$0.00
Joint Bore w/3 Utilities	$5.25		$0.00
Joint Bore w/2 Utilities	$5.50		$0.00
Joint Trench CATV only - 48"	$2.95		$0.00
Hand Dig Trench	$4.25		$0.00
Bore & Place CATV only	$7.25		$0.00
Place additional CIC	$0.50		$0.00
Additional Cable Bore	$3.00		$0.00
P/U Material - trip charge	$260.00		$0.00
Place Ground Rod	$20.00		$0.00
Place Pedestal	$18.00		$0.00
Place Hand Hole	$375.00		$0.00
Miscellaneous			$0.00

$0.00

Exhibit A - Engineering & Permits

	Sub-Total
Aerial	
Buried/Bore No permit	
Bore/Permit required	$ 1,200.00
County Permits	
Hourly Engineering	
Turn Key Eng. Services	$ 12,779.55
	$ 13,979.55

Exhibit A - Material

GP Item #	Material List	Vendor		Cost	Qty	Total
	FIBER					
FIB000088	12Ct. Fiber-Commscope/KGP	KGP	Per FT	$0.29		$0.00
FIB000089	24Ct. Fiber-Commscope/KGP	KGP	Per FT	$0.37		$0.00
FIB000090	48Ct. Fiber-Commscope/KGP	KGP	Per FT	$0.48		$0.00
FIB000091	96Ct. Fiber-Commscope/KGP	KGP	Per FT	$0.85		$0.00
FIB000092	144Ct. Fiber-Commscope/KGP	KGP	Per FT	$1.24	16200	$20,088.00
FIB000105	288Ct. Fiber		Per FT	$2.48		$0.00
	Conduit					
CON000005	1 1/4" Conduit	CSC	Per FT	$0.42		$0.00
CON000006	2" Conduit	CSC	Per FT	$0.76	2000	$1,520.00
CON000010	1" Plenum Flex Duct	Graybar	Per FT	$2.05		$0.00
	PEDS					
FIB0000145	Clearfield 2 port XPAK	Clearfield	Each	$52.00		$0.00
FIB0000146	Clearfield 4 port XPAK	Clearfield	Each	$66.00		$0.00
FIB0000147	Charles BD4 FFTH ped	P&T	Each	$96.40		$0.00
FIB0000148	Charles BD4 FFTH ped STAKE	P&T	Each	$7.95		$0.00
BC000116	Ant Poison 1 per ped & HH (Order for every FTTH Ped)		Each	$3.62	2	$7.23
	Handholes					
FIB000086	24X36X36 PC TIER 15 PULL BOX W/COVER **SMALL HH**	City Build	Each	$365.00	4	$1,460.00
FIB000087	30x48x36 PolyConcrete box, open bottom. 2 piece lid **LARGE HH**	City Build	Each	$500.00		$0.00
FIB000009	Fiber Markers - Poly Dome Posts		Each	$12.00	4	$48.00
BC000027	Ground Rod		Each	$7.00	4	$28.00
BC000025	Gound Rod clamps		Each	$4.03		$0.00
	Splice Cases/Trays					
FIB000107	FOSC450-D6-6-NT-0-D3V - KGP Underground (Tyco Splice Case)	KGP	Each	$316.69		$0.00
FIB000108	FOSC-ACC-D-TRAY-36-KIT - KGP (Tyco Splice Tray)	KGP	Each	$20.82		$0.00
FIB000110	Coyote Closure - Reg 144 ct or less (Aerial)	City Build	Each	$270.00	2	$540.00
FIB000109	Coyote Closure - Lg - 288 ct or more (Aerial)	City Build	Each	$490.00		$0.00
FIB000135	36ct Splice Tray	City Build	Each	$36.50	8	$292.00
FIB000027	Emersen Splice Trays		Each			$0.00
BC000110	3M Fiber Bonding Clamps	P&T	Each	$0.79		$0.00
	Aerial					
AE000001	430 Lashing Wire -2 Per 1000 ft Aerial	P&T	Per Roll	$9.68	26	$251.68
AE000002	1/4" Extra High Strength Strand		Per Ft	$0.12	15200	$1,824.00
AE000003	5/8" x 14" Machine Bolt **(box of 25) (1 per pole)**	P&T	Each	$1.34		$0.00
AE000004	5/8" x 14" Thimble Eye Bolt **(box of 25)**	P&T	Each	$3.40	100	$340.00
AE000005	5/8" x 16" Machine Bolt **(box of 25)**	P&T	Each	$1.55		$0.00
AE000006	5/8" x 16" Thimble Eye Bolt **(box of 25)**	P&T	Each	$3.80		$0.00
AE000007	2" Square Washer **(box of 100) (2 per pole)**	P&T	Each	$0.21	200	$42.00
AE000008	5/8" Square Nut **(box of 100) (1 per pole)**	P&T	Each	$0.19	200	$38.00
AE000009	3 Bolt B Suspension Clamp **(box of 25) (1 per pole)**	P&T	Each	$2.85	100	$285.00
BC000102	Aerial Fiber markers (4" Oragen Panel- part # APCM40) **(1 per pole)**	ACP	Each	$1.55	100	$155.00
AE000010	1/4" Guy Grip (Dead End) **(box of 100)**	P&T	Each	$1.12	100	$112.00
AE000011	Anchor - 6" 3/4" X 66"	P&T	Each	$18.89	5	$94.45
AE000012	Yellow Guy Guard **(box of 25)**	P&T	Each	$3.63	10	$36.30
AE000013	2"x8' Plastic U-guard **(box of 100)**	P&T	Each	$8.34	10	$83.40
AE000014	Bug Nuts **(box of 100) (2 per pole)**	P&T	Each	$0.40	200	$80.00
AE000015	Panduit Support Tie and Spacer **(100/bag)**	P&T	Each	$0.84	200	$168.00
AE000016	Weaver Clamp **(box of 100)**	P&T	Each	$4.16	1	$4.16
AE000020	Aerial Hanger Clamp Kit	P&T	Each	$21.89	8	$175.12
AE000021	6 GA Copper Bare Wire **(315' roll)**	P&T	Each	$115.92	0.5	$57.96

AE000022	1/4" x 2" Galvanized Lag Screw	P&T	Each	$0.20	25	$5.00
AE000023	1/4 straight splice for strand	P&T	Each	$10.35	2	$20.70
AE000024	16" Aluminum Fiber Storage Unit	P&T	Each	$50.00	4	$200.00
AE000025	20" Aluminum Fiber Storage Unit	P&T	Each	$65.28		$0.00
AE000026	Hook 5/8" Guy w/Integral Lag (Goat Head)	P&T	Each	$2.76	8	$22.08
AE000032	Double Arming Bolt - Riser Standoff	City Build	Each	$5.95	6	$35.70
AE000033	2 1/4" X 2 1/4" X 1/8" Square Washer - Riser Standoff	City Build	Each	$0.45	6	$2.70
AE000034	Unistrut - Galv. 1/5/8" Slotted - Riser Standoff (10')	City Build	Each	$1.45	6	$8.70
AE000035	2" Unistrut Pipe Clamp - Riser Standoff	City Build	Each	$2.96	12	$35.52
AE000036	1 1/4" Unistrut Pipe Clamp - Riser Standoff	City Build	Each	$2.69		$0.00
	EMT					
MISC	**1 - 1/4" EMT (Inlcudes connectors/mount brackets/couplers....)**	Graybar	Each	$2.00		$0.00
DP000151	**C-Access for EMT Per Each**	Graybar	Each	$18.32		$0.00
DP000150	**LB or for EMT Per Each**	Graybar	Each	$10.38		$0.00
DP000127	**Install 6X6 EMT box Per Each**	Graybar	Each	$7.62		$0.00

Cost:	$28,060.70
Tax/Shipping	$4,209.11
Total Cost:	**$32,269.81**

Exhibit B

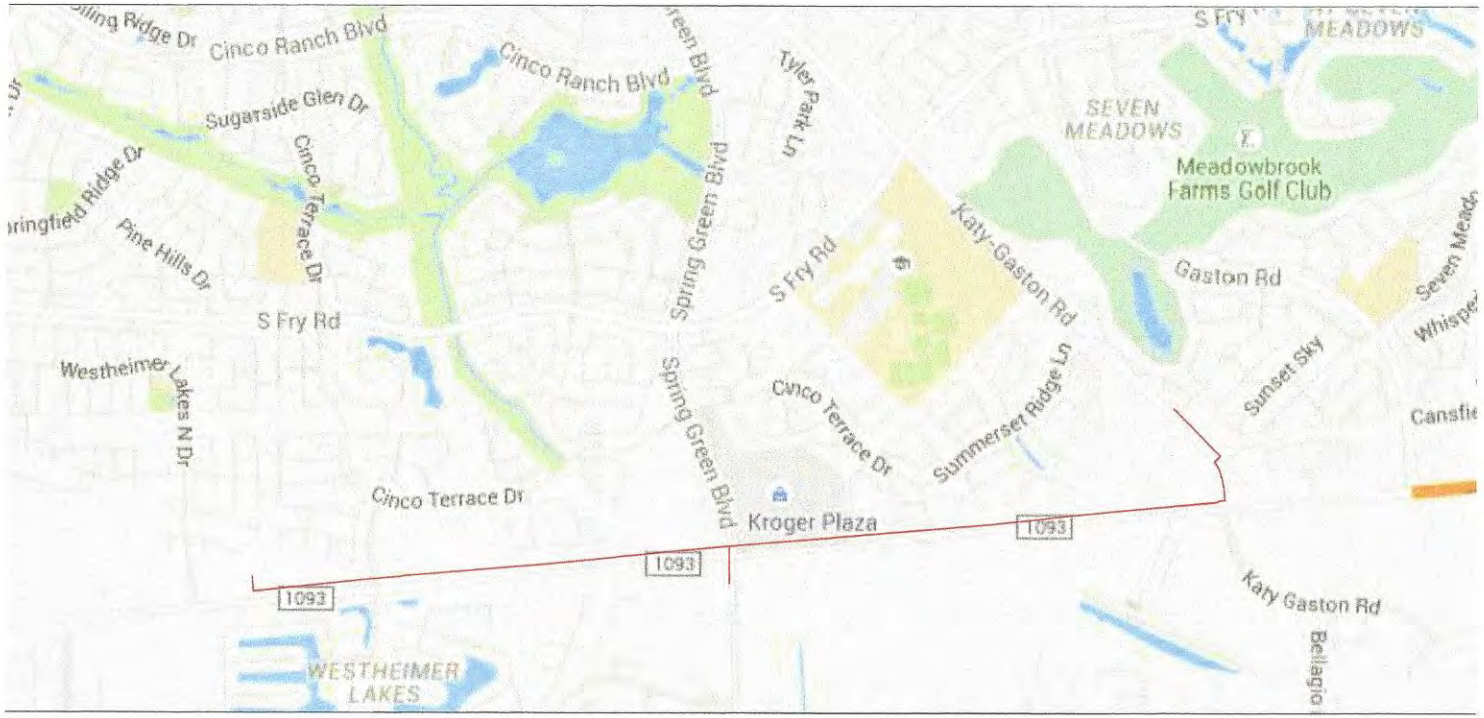
(31 Pages to Follow)

En-Touch Systems, Inc.

West Park Tollway Extension

Phase I Construction Drawings

WESTPARK TOLLWAY EXTENSION - PHASE I



KEY MAP 524F , 524G, 524H AND 525E

N

CAUTION!
HIGH VOLTAGE
25 KV AERIAL & BURIED
CENTERPOINT ENERGY

CONTRACTORS:

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48 HOURS PRIOR TO EXCAVATING
FOR NON-TELEPHONE UTILITIES LOCATES
CALL 1-800-545-6005

CONTACT STORM WATER SOLUTIONS, 24 HOURS PRIOR TO WORKING IN AREA FOR VEHICLE ACCESS 713-935-1044

CENTERPOINT ENERGY NOTE:

(X) POLE REFERENCE NUMBER

PLACE CABLE AND STRAND AT 18' HEIGHT

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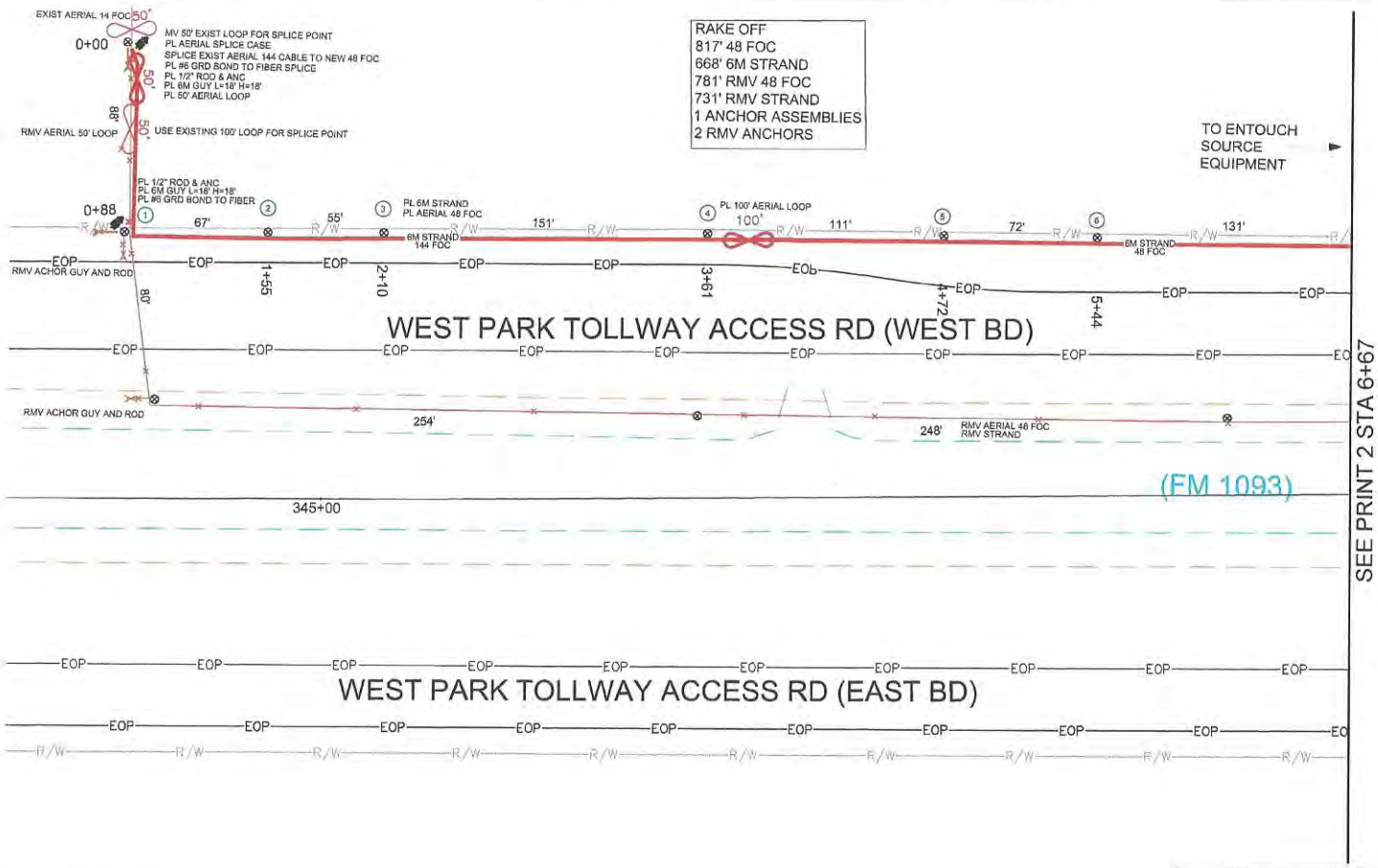
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS UNDERGROUND COMPANY
2301 Hollister
Suite 250
Houston, TX 77040
713-464-2790 (Office)
713-690-1625 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	624A
PLAT:	COVER SHEET
DWG NAME:	WO15CFB1074



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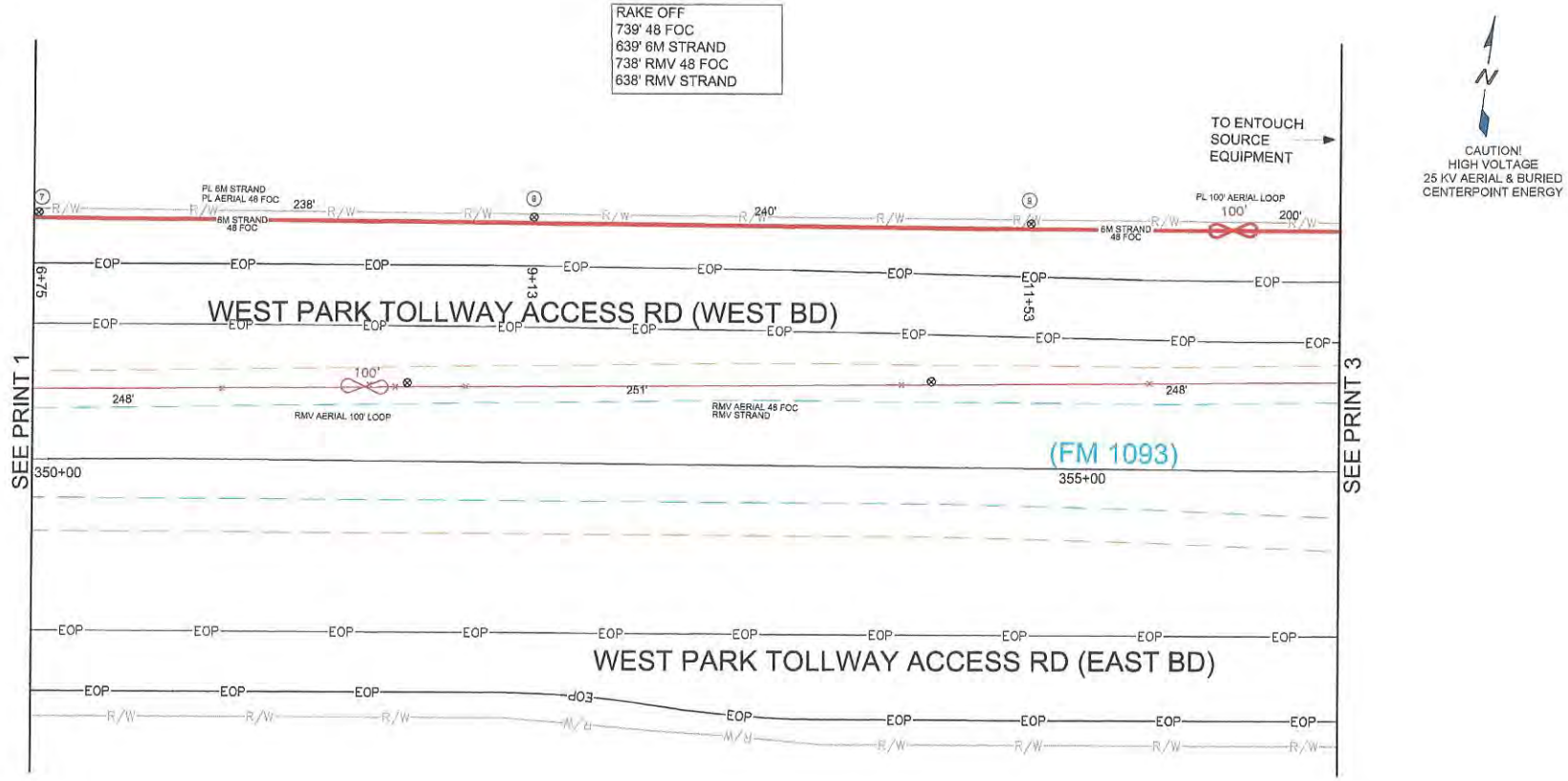
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS Engineering Company
6301 Holdfast
Suite 200
Houston, TX 77040
713-984-9799 (Office)
713-990-1565 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524F
PLAT:	01 OF 28
DWG NAME:	WO15CFB1074



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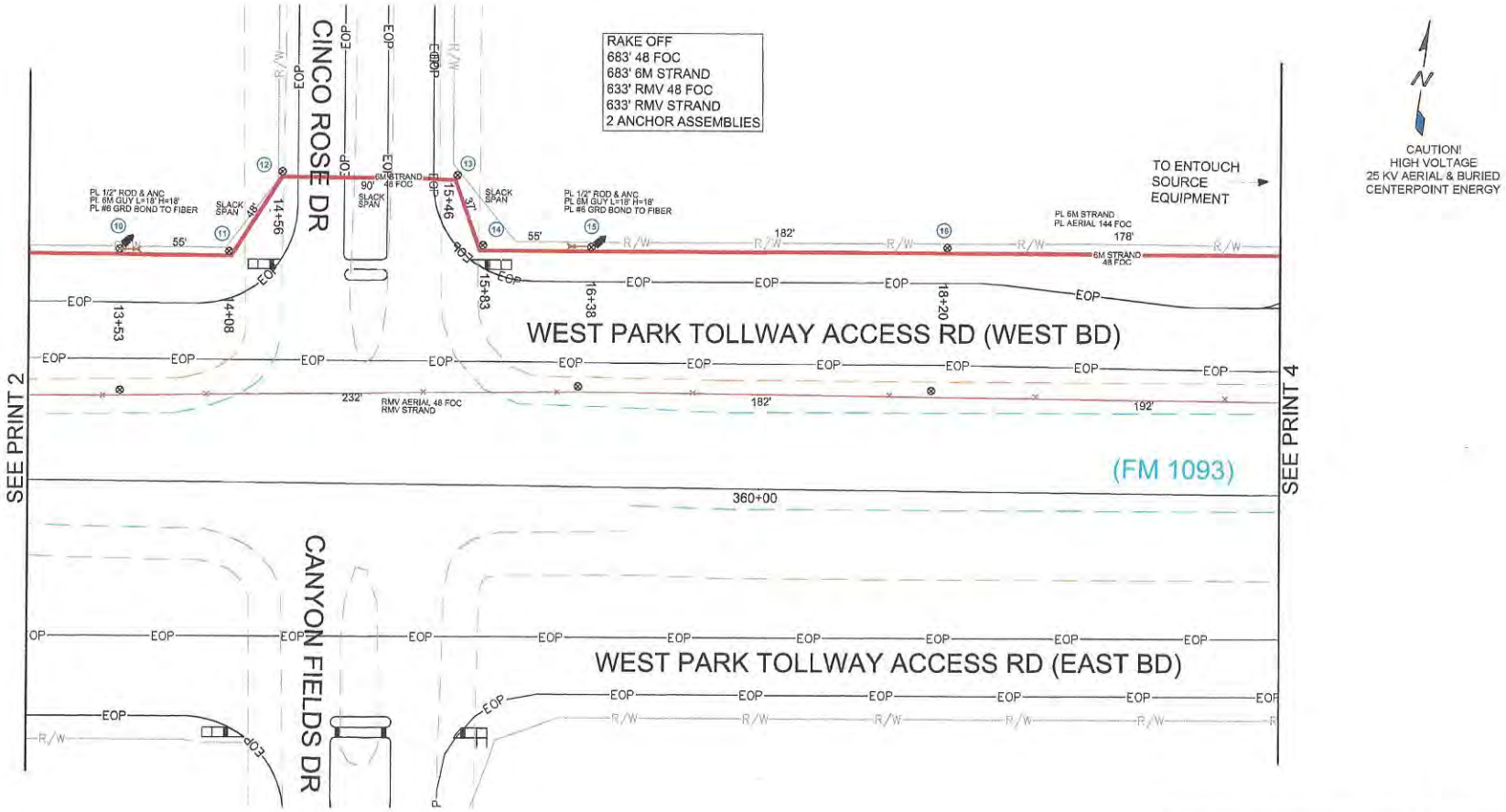
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS TELECOMMUNICATIONS COMPANY
8321 Hollister
Suite 210
Houston, TX 77040
713-464-8700 (Office)
713-692-1682 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524F
PLAT:	02 OF 28
DWG NAME:	WO15CFB1074



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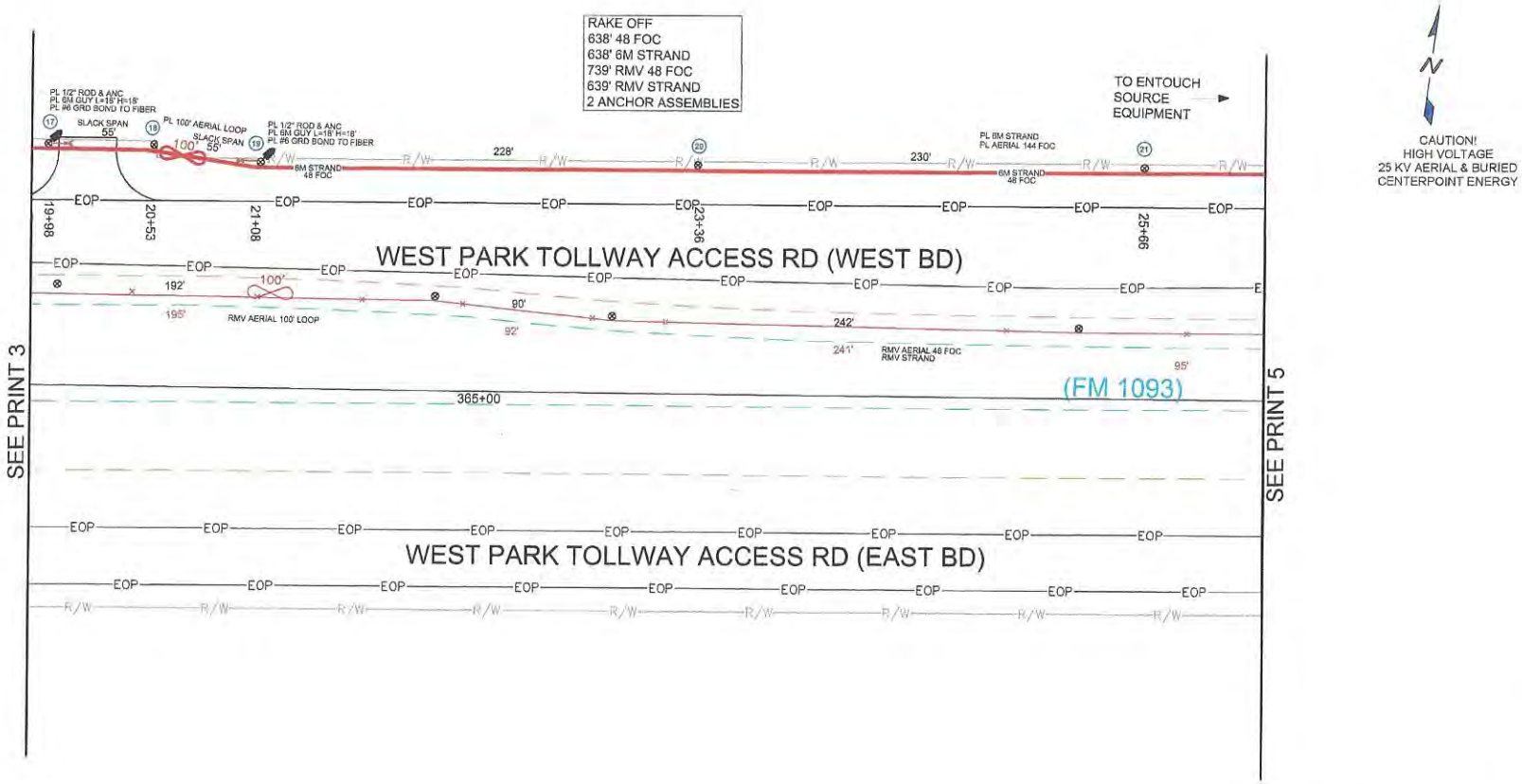
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS CONSTRUCTION COMPANY
6301 Hollister
Suite 250
Houston, TX 77040
713-696-5795 (Office)
713-690-1693 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-09-2015
KEY MAP:	524F
PLAT:	03 OF 28
DWG NAME:	WO15CFB1074



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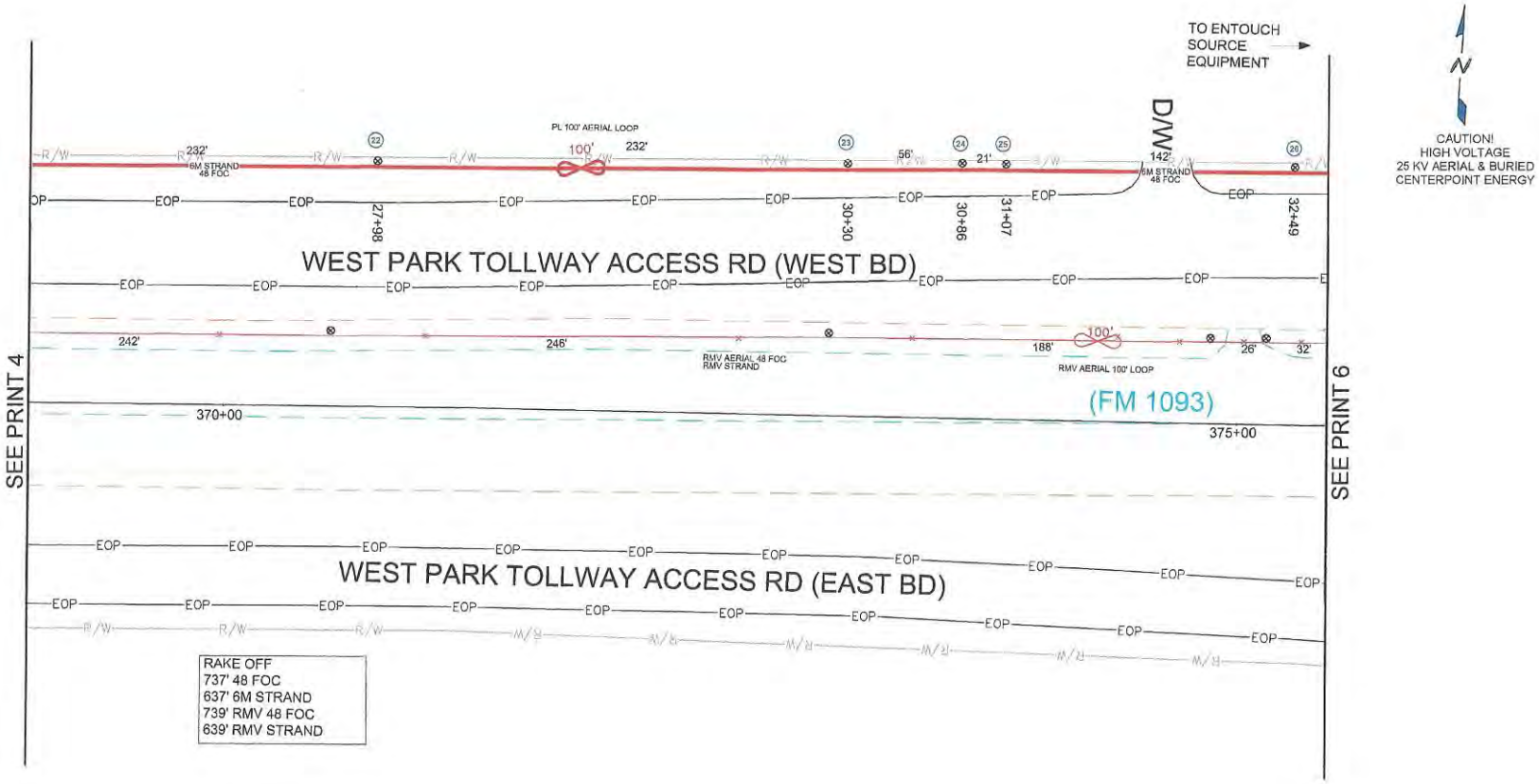
BYERS ENGINEERING COMPANY
9001 Hollister
Suite 202
Houston, TX 77040
713-464-0790 (Office)
713-580-1952 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524F
PLAT:	04 OF 28
DWG NAME:	WO15CFB1074



RAKE OFF
737' 48 FOC
637' 6M STRAND
739' RMV 48 FOC
639' RMV STRAND

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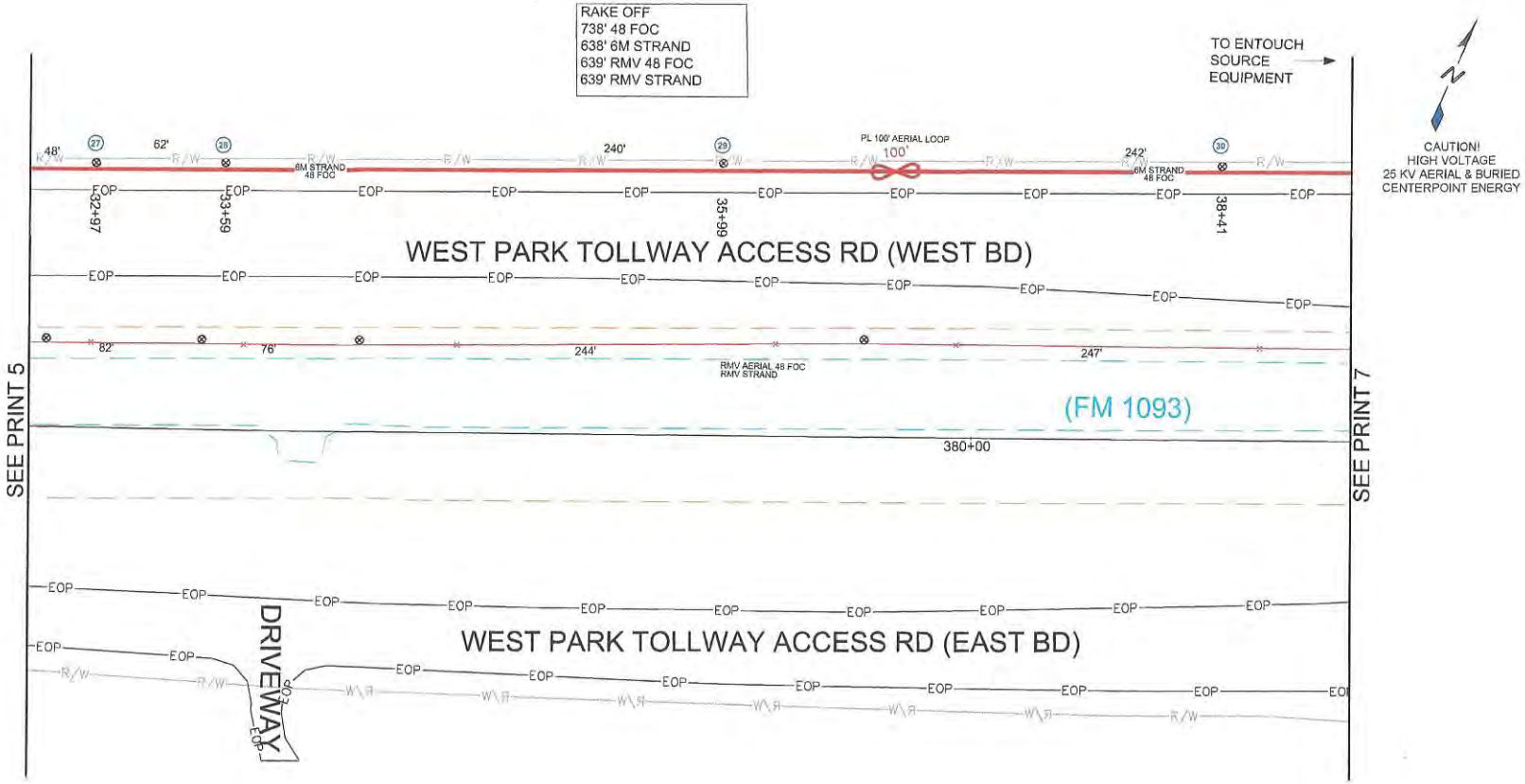
FIBER RELOCATION

BYERS ENGINEERING COMPANY
5001 Hollister
Suite 255
Houston, TX 77040
713-464-8780 (Office)
713-690-1898 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524F
PLAT:	05 OF 28
DWG NAME:	WO15CFB1074



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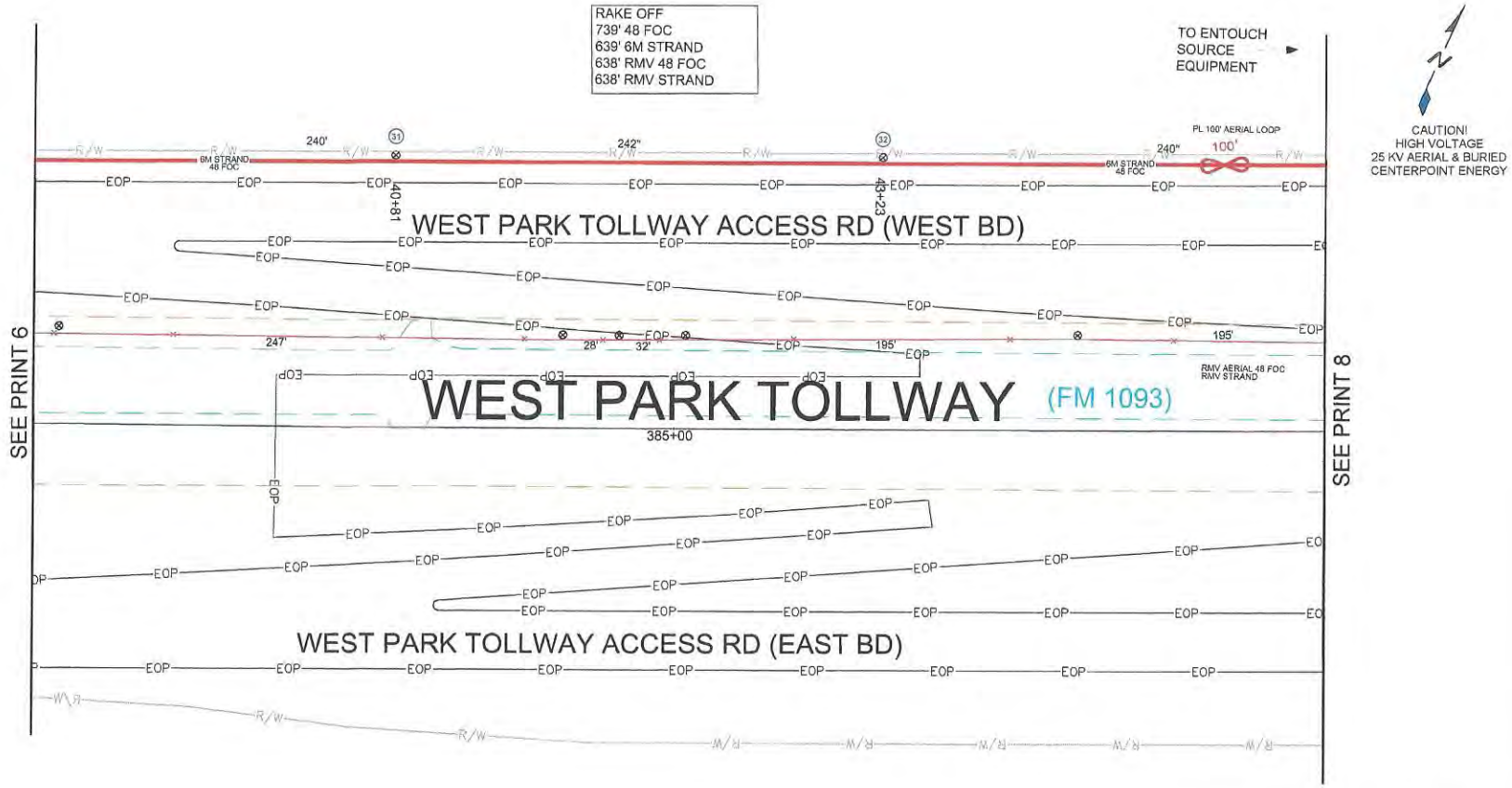
BYERS CONSULTING COMPANY
9301 Hollister
Suite 250
Houston, TX 77040
713-464-2780 (Office)
713-590-1053 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIK, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-09-2015
KEY MAP:	524G
PLAT:	06 OF 28
DWG NAME:	WO15CFB1074



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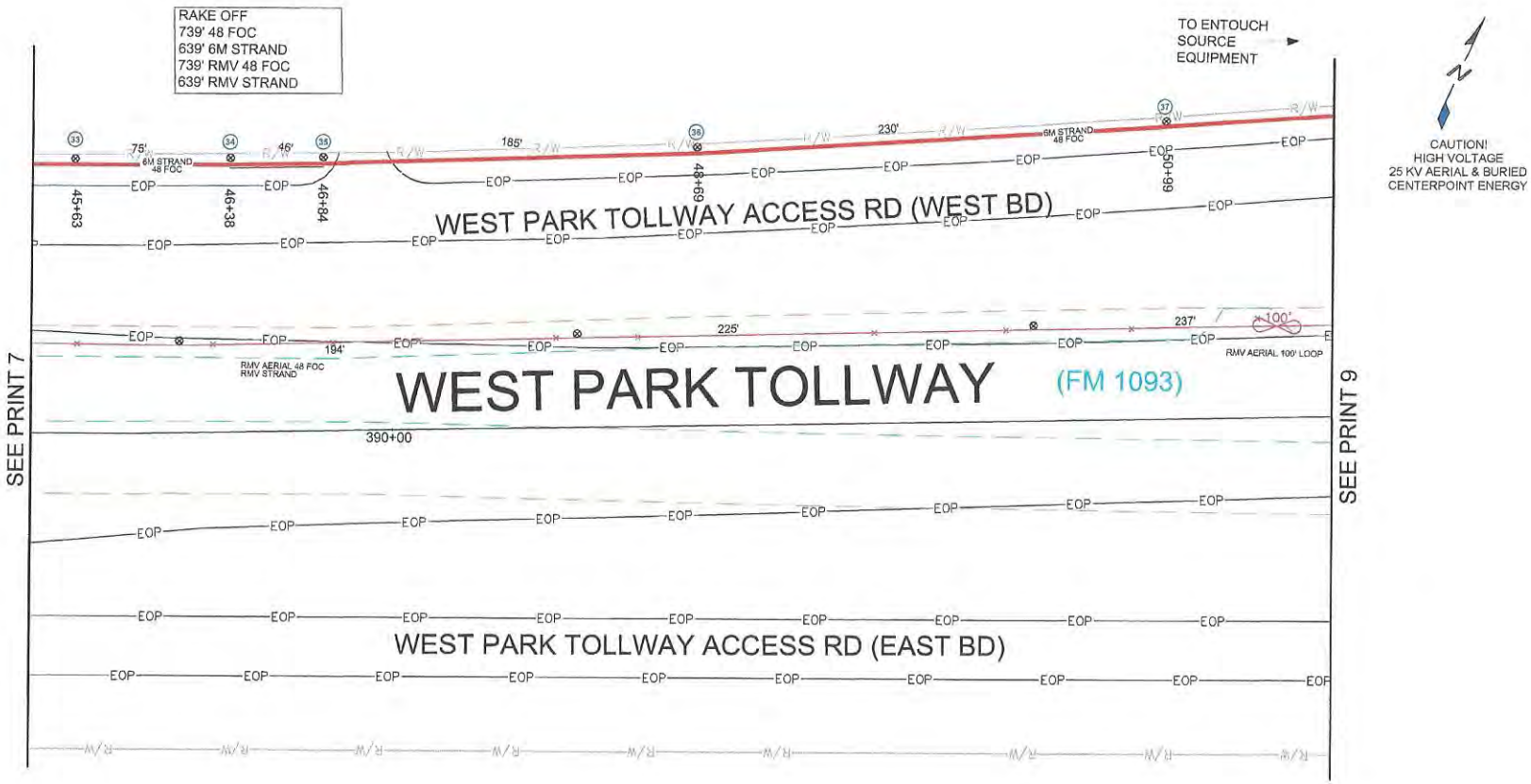
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS ENGINEERING AND SURVEYING COMPANY
8301 Holdstar
Suite 250
Houston, TX 77040
713-484-9760 (Office)
713-690-1685 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524Q
PLAT:	07 OF 28
DWG NAME:	WO15CFB1074



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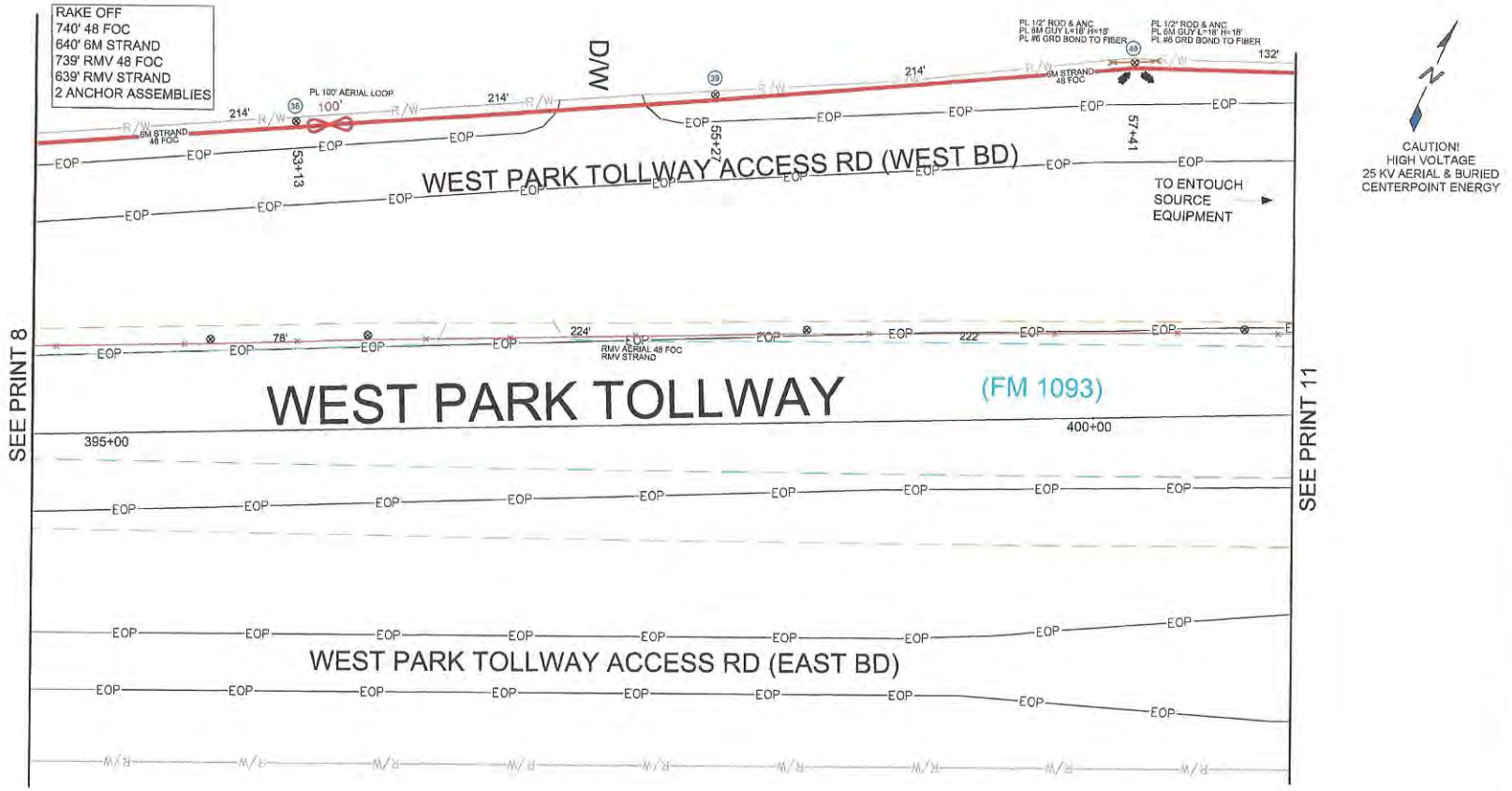
BYERS TELECOMMUNICATIONS COMPANY
8321 Hollister
Suite 250
Houston, TX 77040
713-484-8788 (Office)
713-985-1693 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524G
PLAT:	68 OF 28
DWG NAME:	WO15CFB1074



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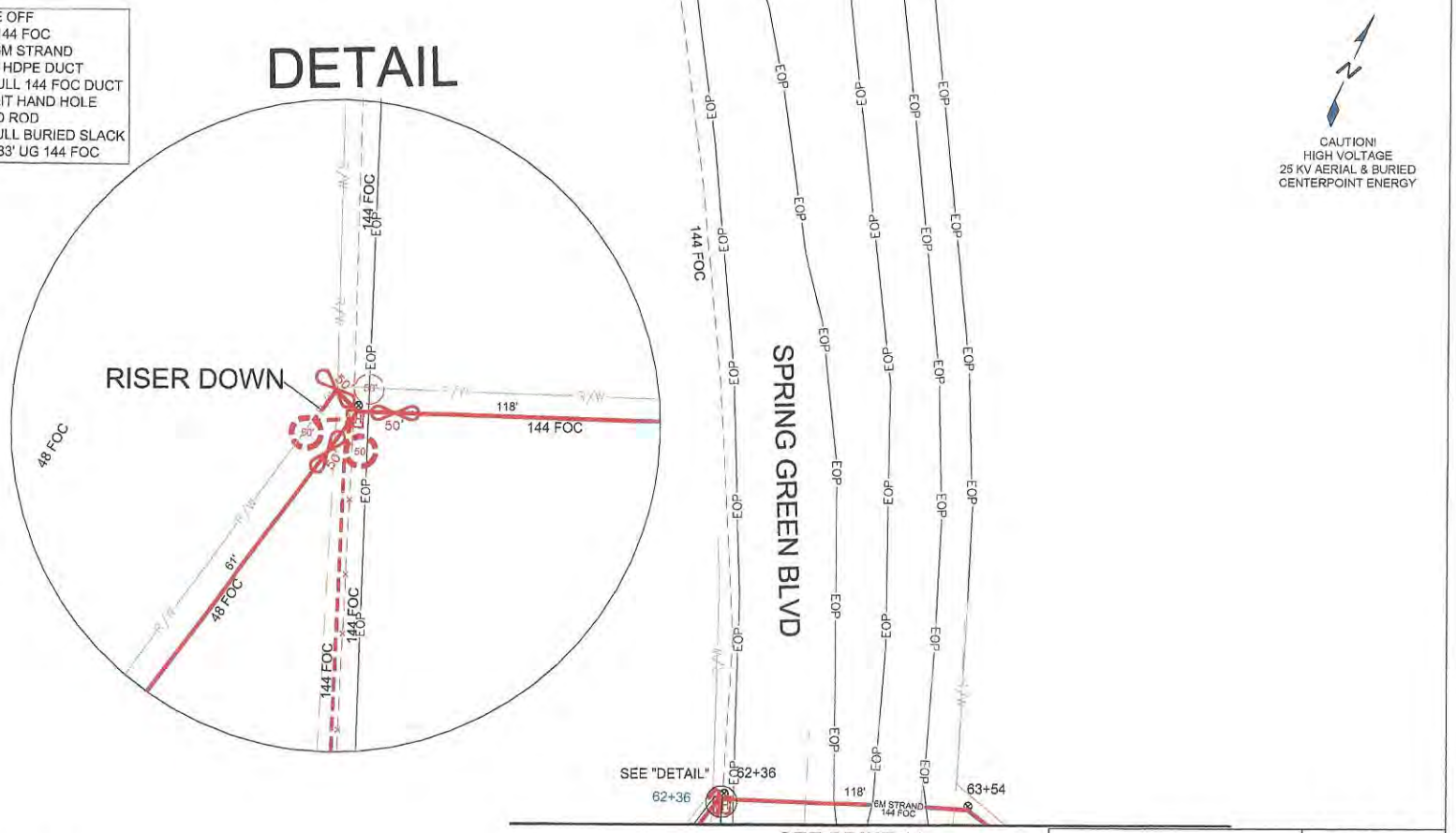
Suite 250
Houston, TX 77040
713-464-9780 (Office)
713-690-1693 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX. Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524G
PLAT:	09 OF 28
DWG NAME:	WO15CFB1074

RAKE OFF
366' 144 FOC
146' 6M STRAND
33' 2" HDPE DUCT
33' PULL 144 FOC DUCT
1 SPLIT HAND HOLE
1 GRD ROD
50' PULL BURIED SLACK
RMV 33' UG 144 FOC



CAUTION!
HIGH VOLTAGE
25 KV AERIAL & BURIED
CENTERPOINT ENERGY

CONTRACTORS:

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48 HOURS PRIOR TO EXCAVATING
FOR NON-TELEPHONE UTILITIES LOCATES
CALL 1-800-545-6005

CONTACT STORM WATER SOLUTIONS, 24 HOURS PRIOR
TO WORKING IN AREA FOR VEHICLE ACCESS 713-935-1044

CENTERPOINT ENERGY NOTE:

(X) POLE REFERENCE NUMBER

PLACE CABLE AND STRAND AT 18' HEIGHT

CENTERPOINT ENERGY POLE ATTACHMENT PERMIT REQUIRED

0 10' 20' 30' 40' 50'
SCALE: 1"=50'

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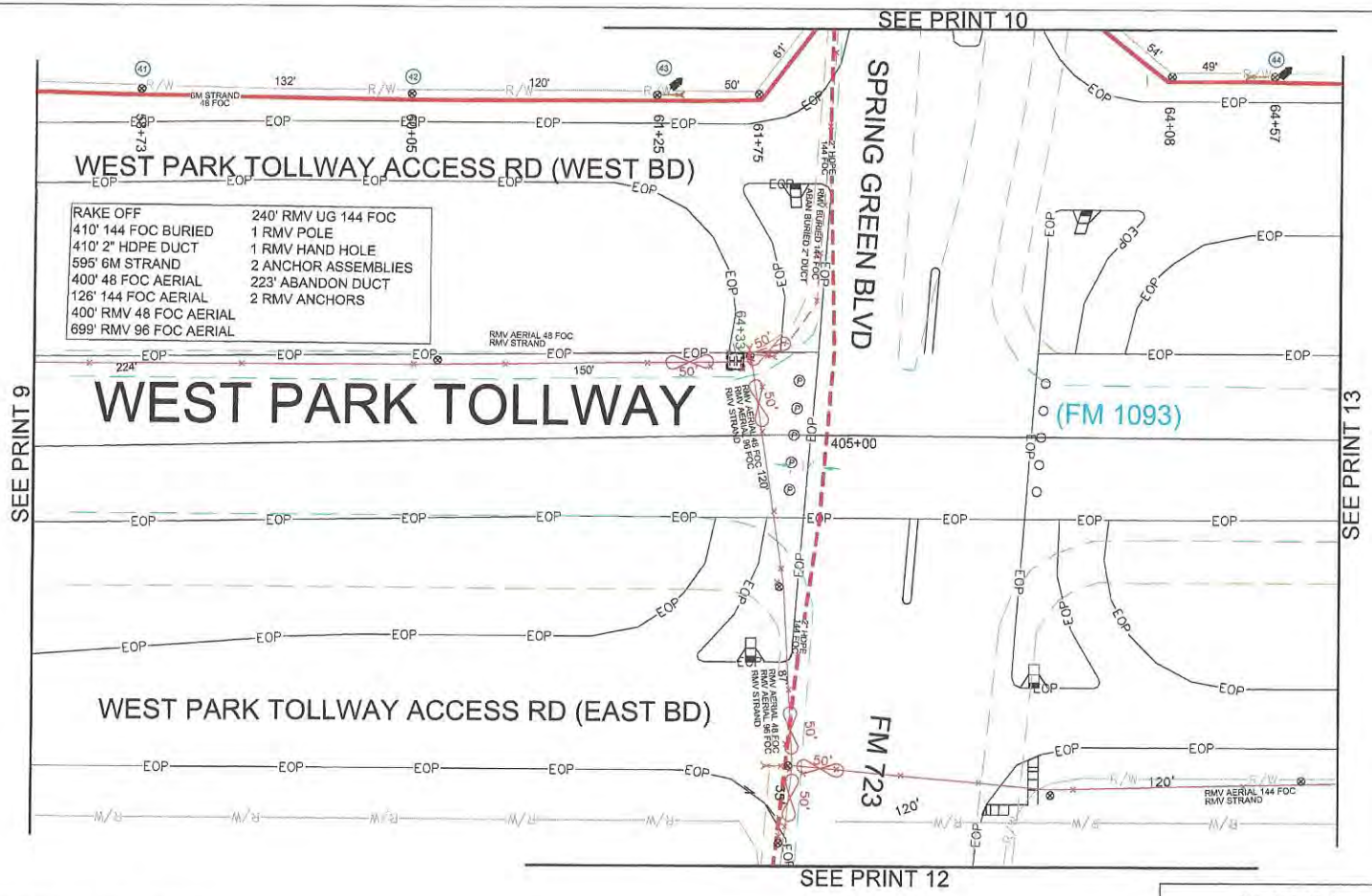
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS ENGINEERING COMPANY
5201 Hollister
Suite 203
Houston, TX 77040
713-464-8700 (Office)
713-690-1688 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524G
PLAT:	10 OF 28
DWG NAME:	WO15CFB1074



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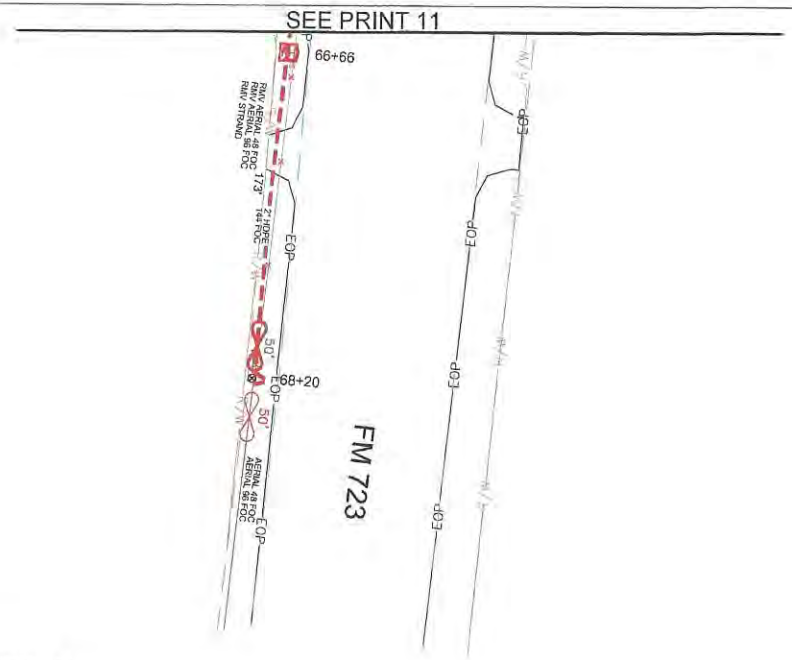
BYERS
TELECOMMUNICATIONS COMPANY
3001 Hollister
Suite 250
Houston, TX 77040
713-464-8780 (Office)
713-895-1595 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524G
PLAT:	11 OF 28
DWG NAME:	WO15CFB1074



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CENTERPOINT ENERGY

RAKE OFF
356' 144 FOC
165' RMV 96 FOC
165' RMV 48 FOC
165' RMV STRAND
1 ANCHOR ASSEMBLY
163' 2" HDPE DUCT
1 HAND HOLE

50' PULL BURIED SLACK

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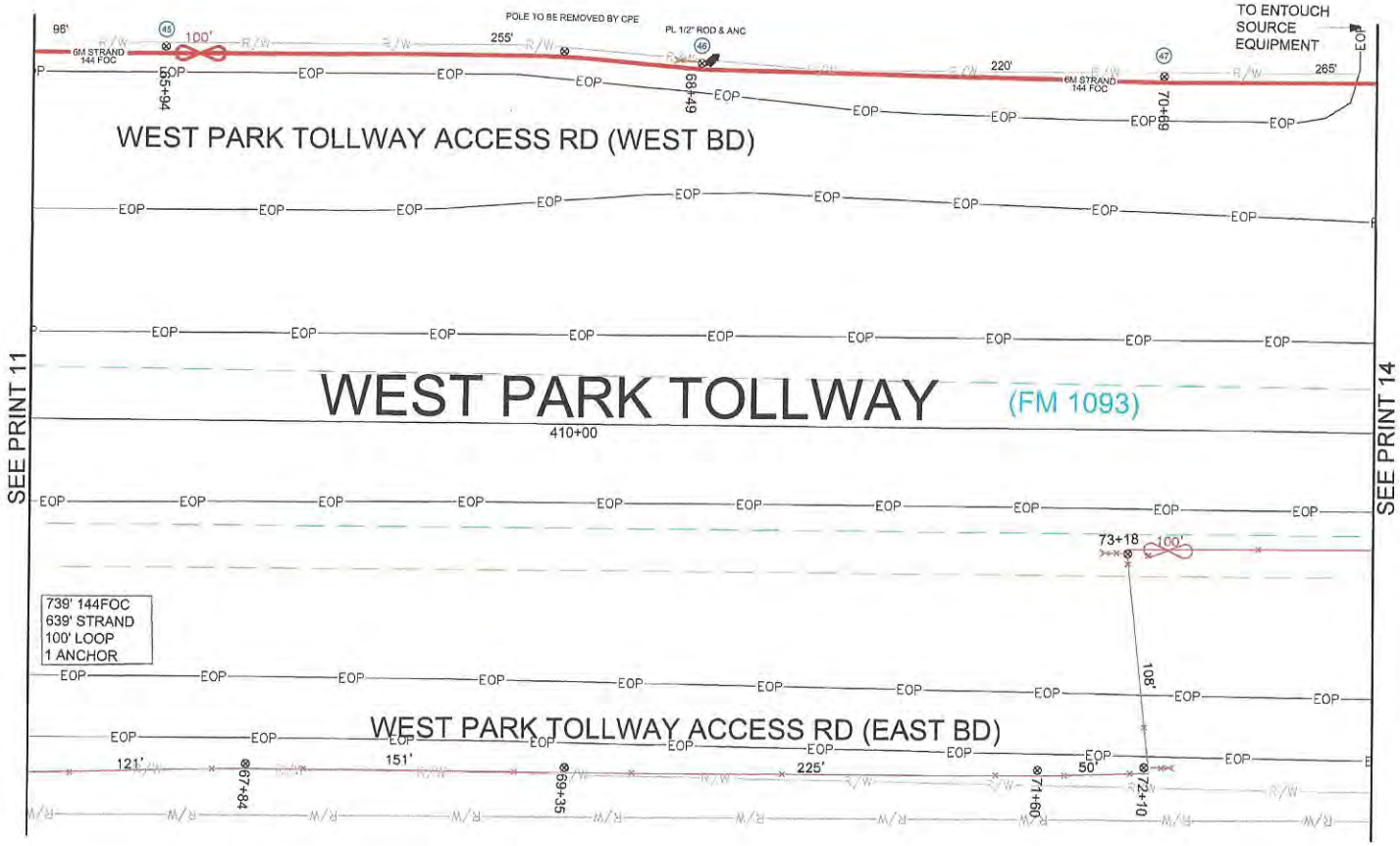
8001 Hollister
Suite 252
Houston, TX 77040
713-464-9780 (Office)
713-690-1605 (Fax)

En-Touch

En-Touch Engineer	WESLBY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524G
PLAT:	12 OF 26
DWG NAME:	WO15CFB1074



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5201 Holister
Suite 250
Houston, TX 77040
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713-690-1855 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
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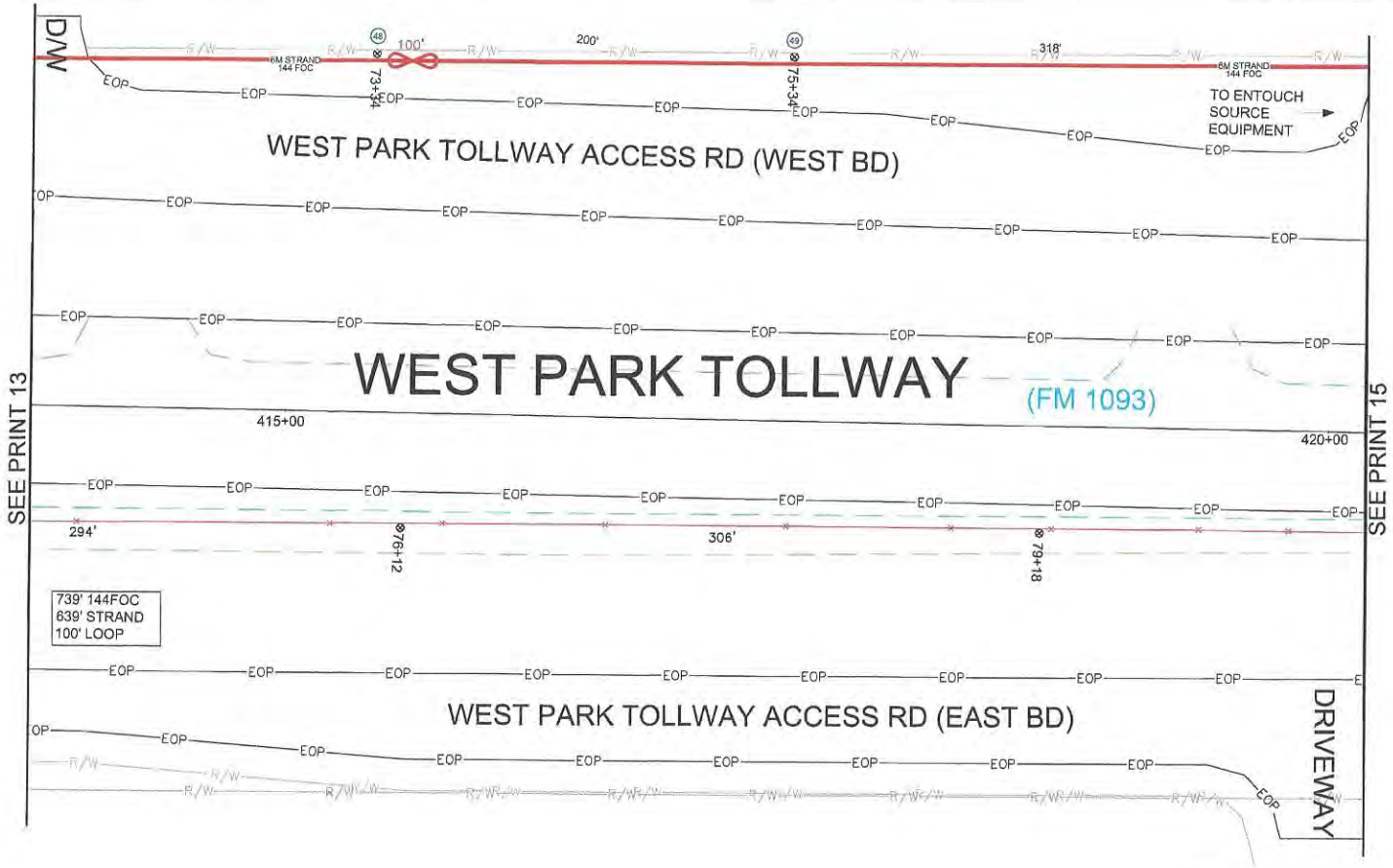
PLAT:	13 OF 28
DWG NAME:	WO15CFB1074



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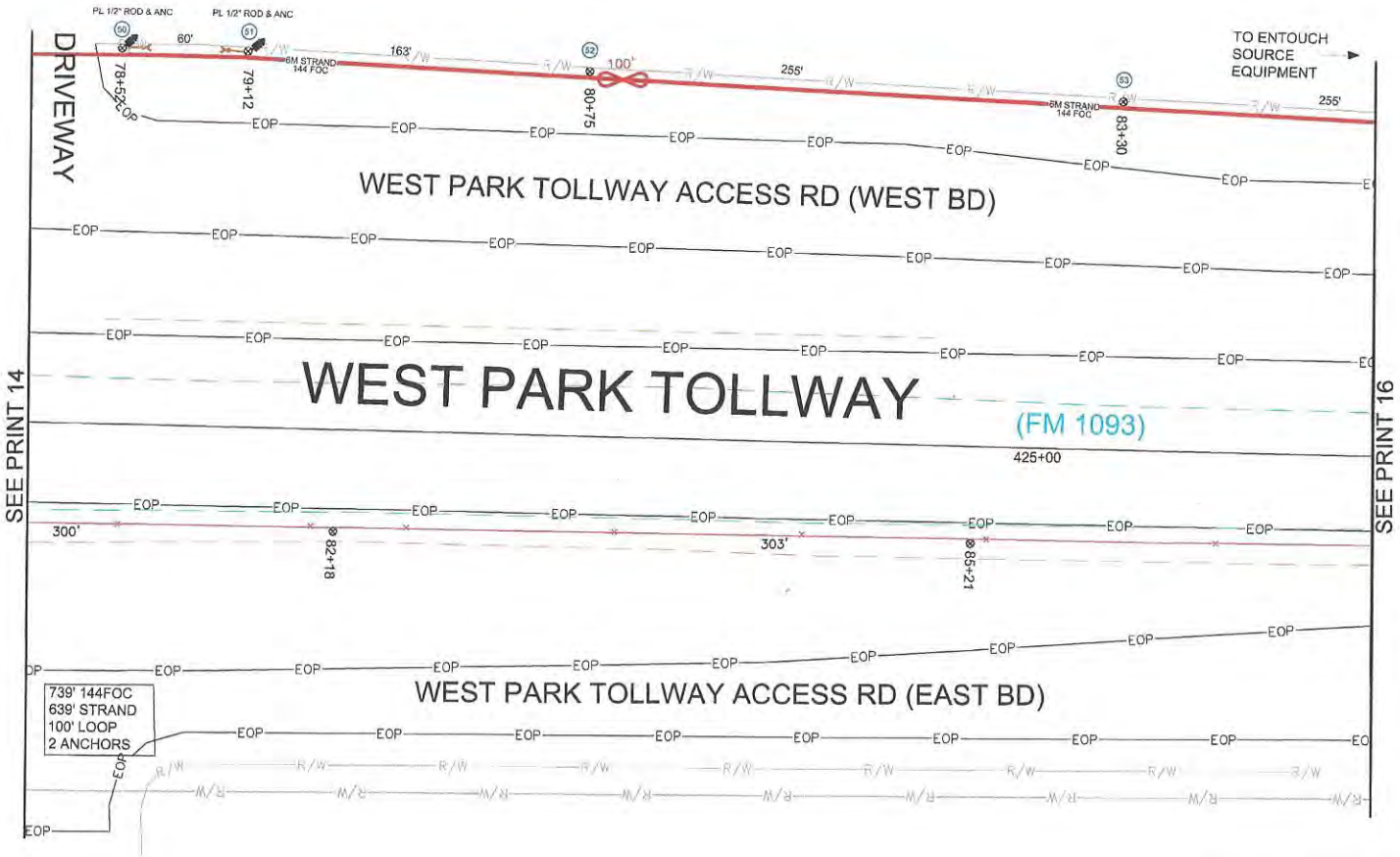
8201 Hollister
Suite 550
Houston, TX 77040
713-464-9780 (Office)
713-460-1688 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524H
PLAT:	14 OF 28
DWG NAME:	WO15CFB1074



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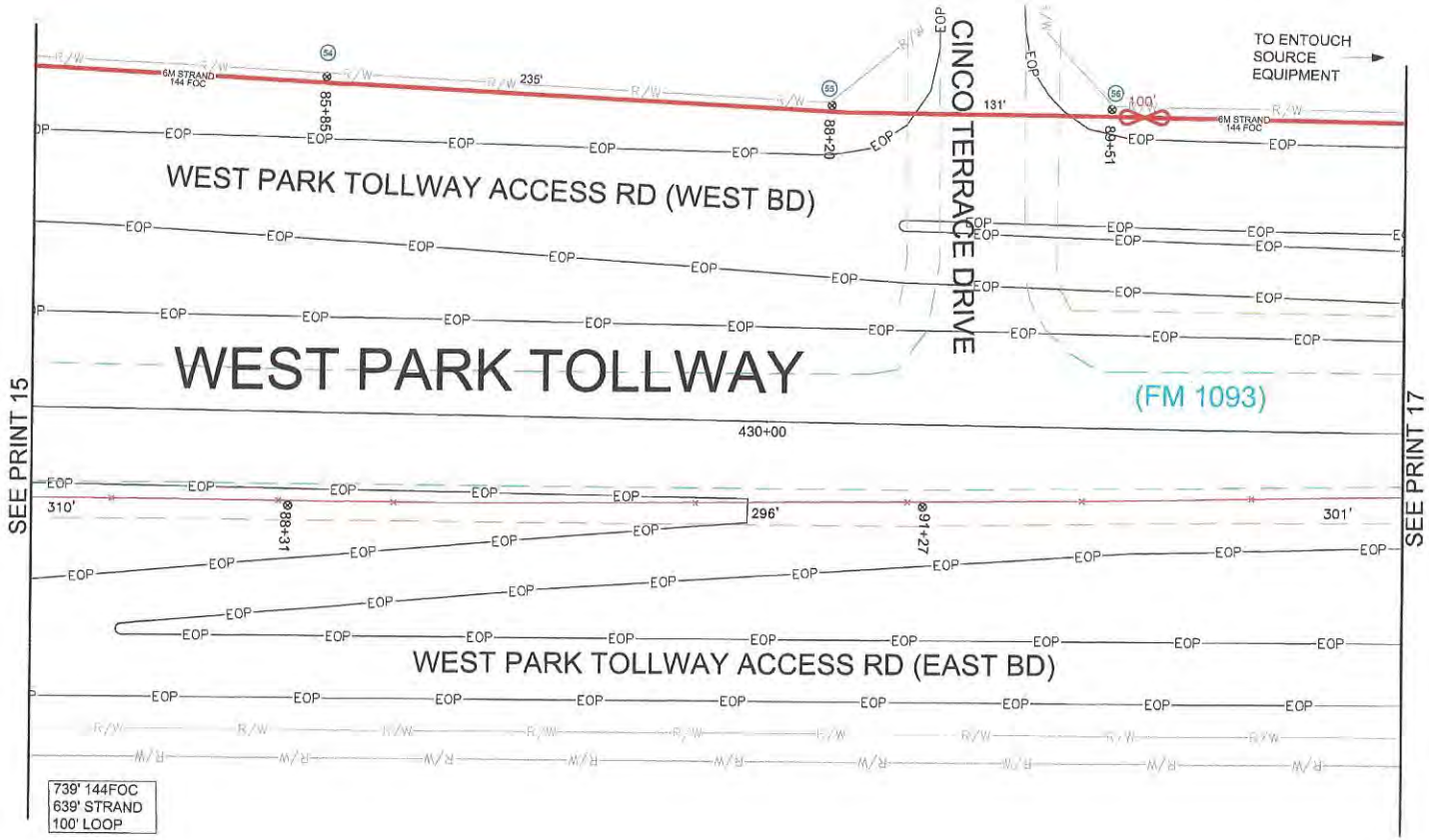
BYERS
5301 Holister
Suite 200
Houston, TX 77040
713-484-9760 (Office)
713-600-1695 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX. Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-05-2015
KEY MAP:	524H
PLAT:	15 OF 28
DWG NAME:	WO15CFB1074



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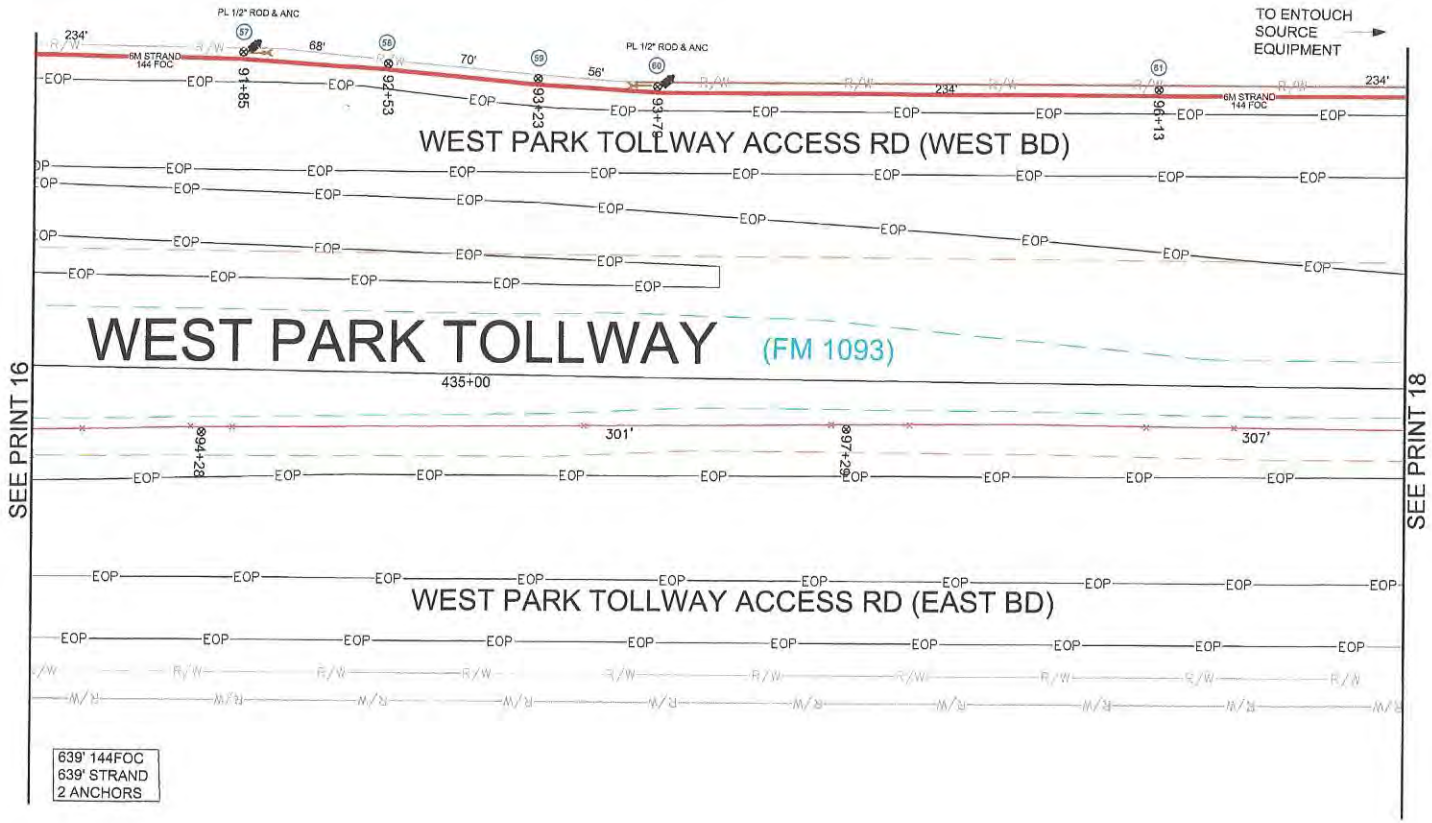
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS COMPANY
5351 Holiday
Suite 220
Houston, TX 77040
713-464-9790 (Office)
713-690-1595 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX. Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524H
PLAT:	16 OF 28
DWG NAME:	WO15CFB1074



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BYERS
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5201 Hollister
Suite 250
Houston, TX 77040
713-464-9780 (Office)
713-460-1625 (Fax)

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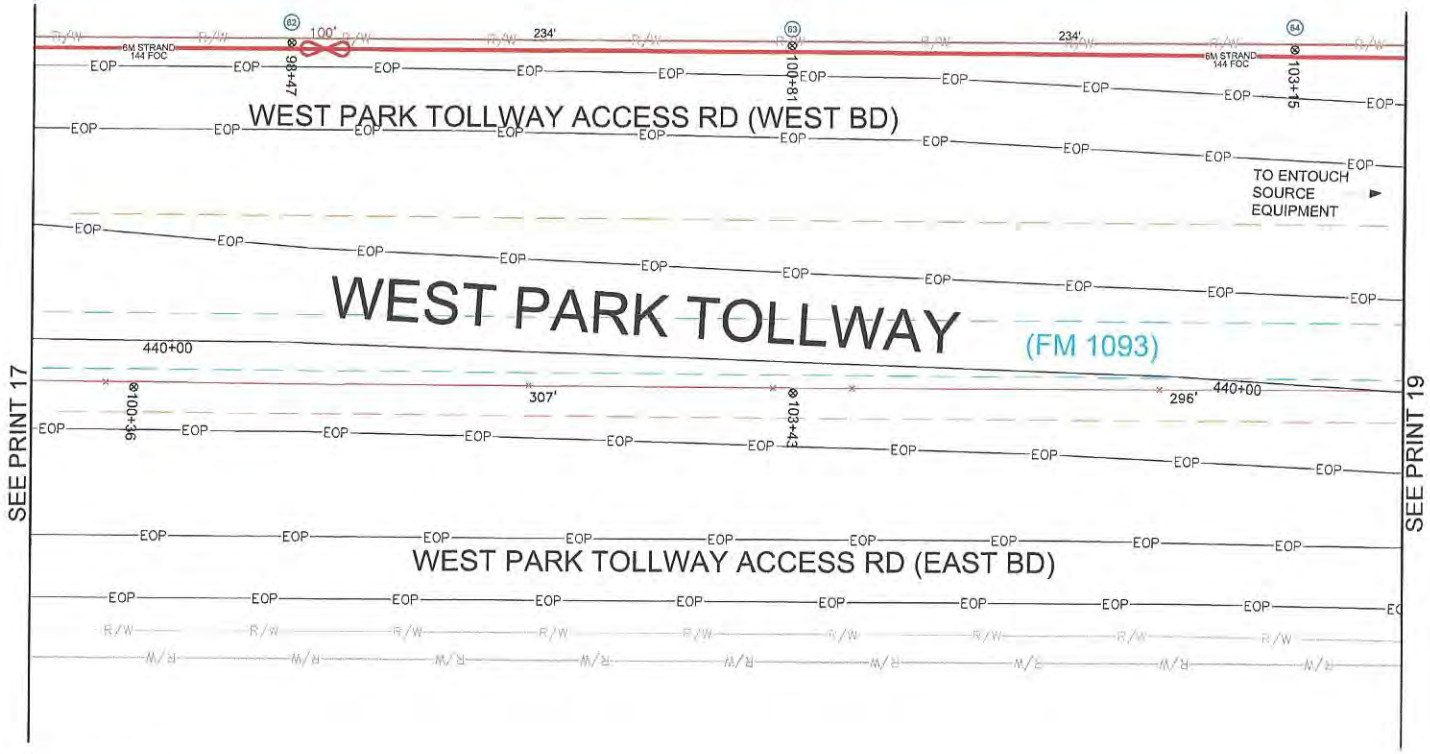
En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524H
PLAT:	17 OF 28
DWG NAME:	WO15CFB1074



739' 144FOC
639' STRAND
100' LOOP

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8301 Hollister
Suite 202
Houston, TX 77040
713-464-9750 (Office)
713-690-1608 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	524H
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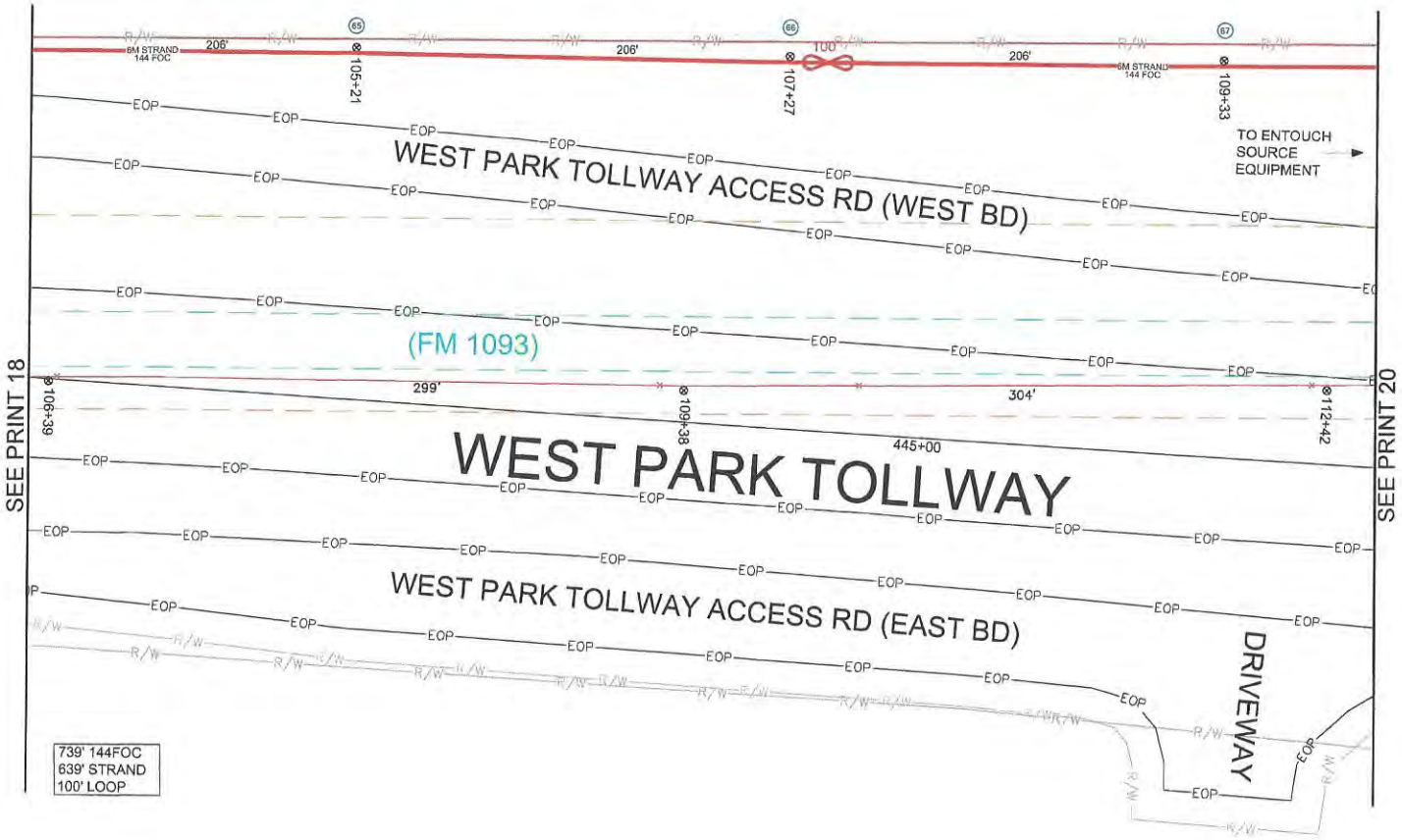

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En-Touch

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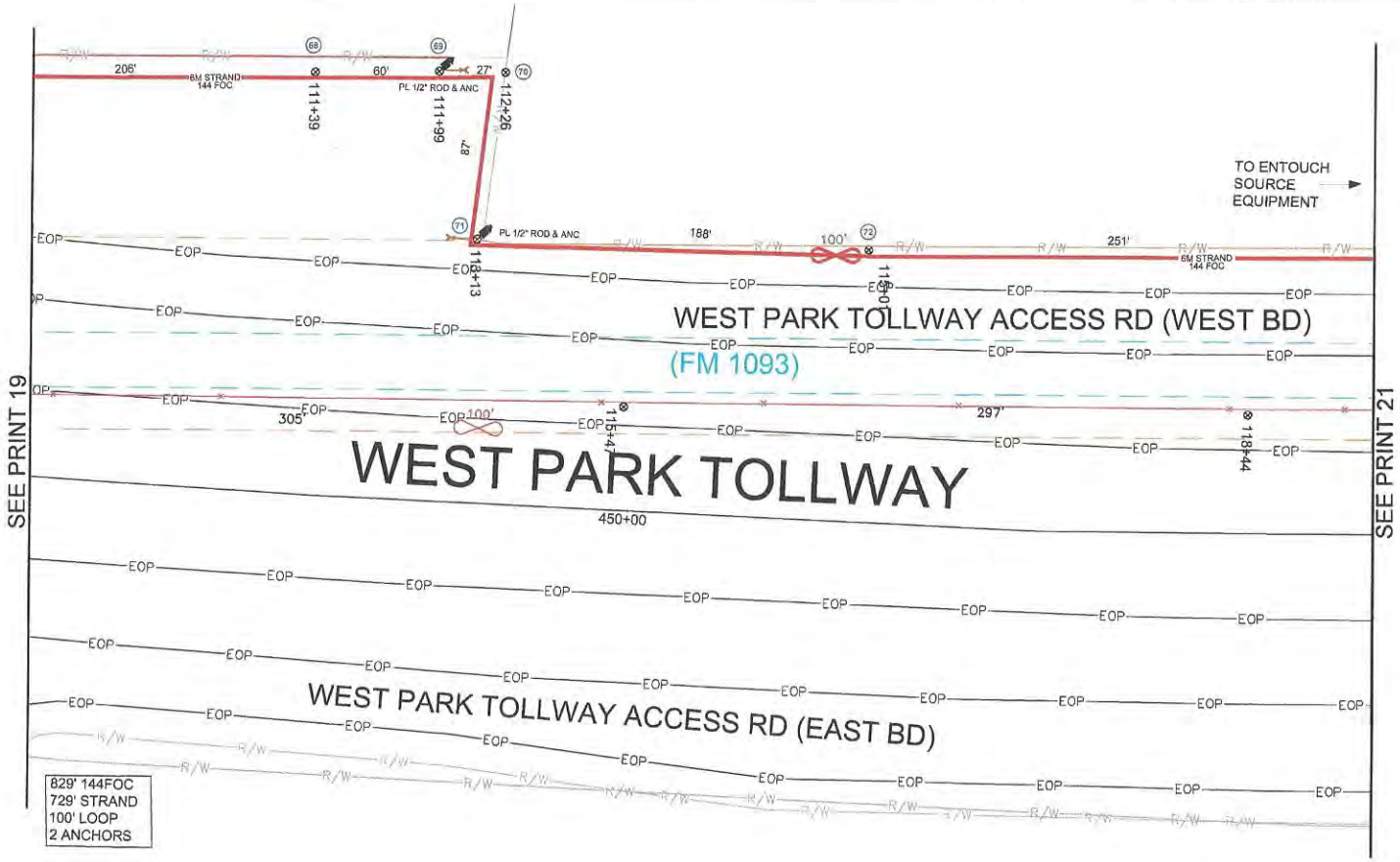

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3301 Hollister
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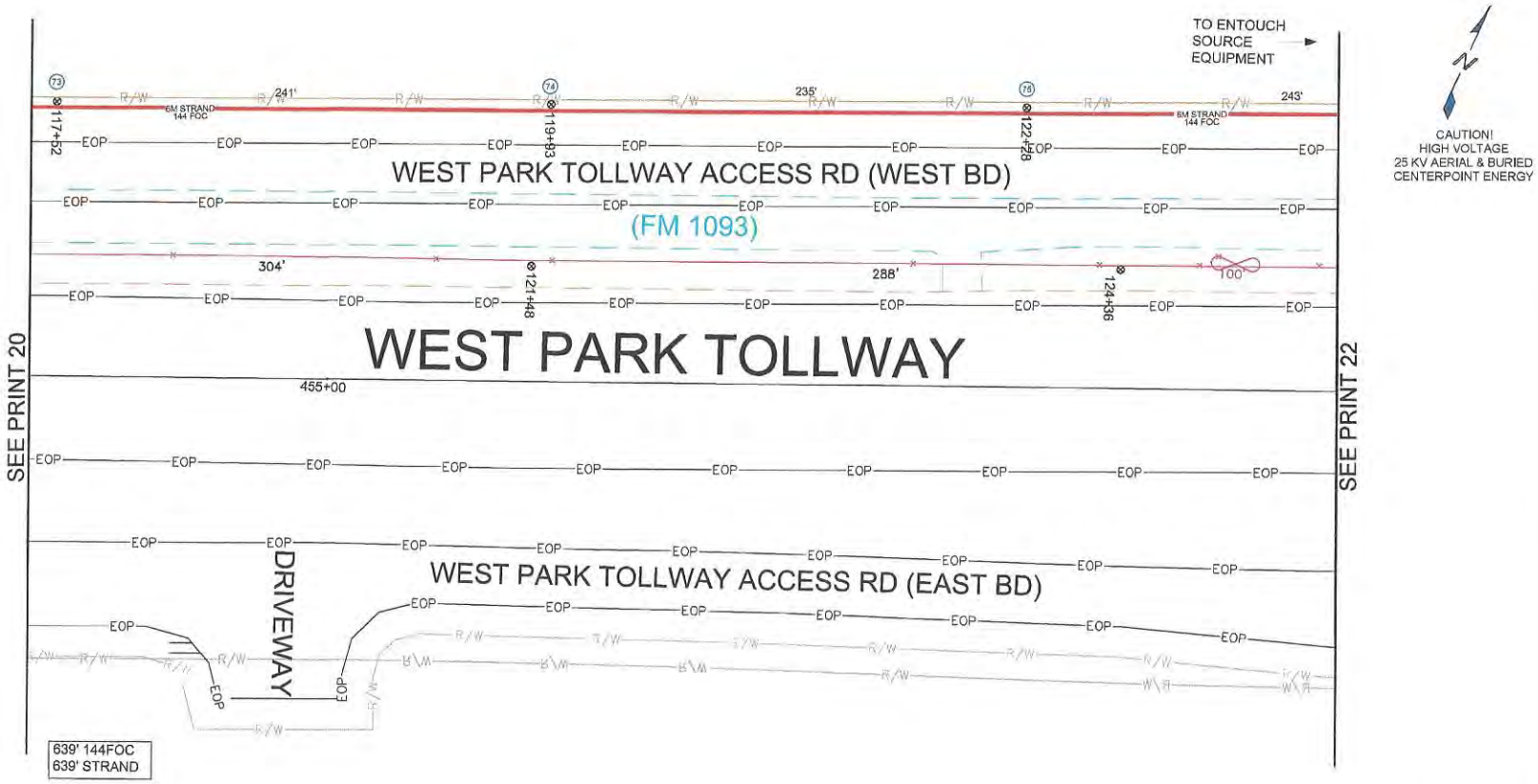

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48 HOURS PRIOR TO EXCAVATING
FOR NON-TELEPHONE UTILITIES LOCATES
CALL 1-800-545-6005

CONTACT STORM WATER SOLUTIONS, 24 HOURS PRIOR TO WORKING IN AREA FOR VEHICLE ACCESS 713-935-1044

CENTERPOINT ENERGY NOTE:

(X) POLE REFERENCE NUMBER

PLACE CABLE AND STRAND AT 18' HEIGHT

CENTERPOINT ENERGY POLE ATTACHMENT PERMIT REQUIRED

0 10' 20' 30' 40' 50'
SCALE: 1"=50'

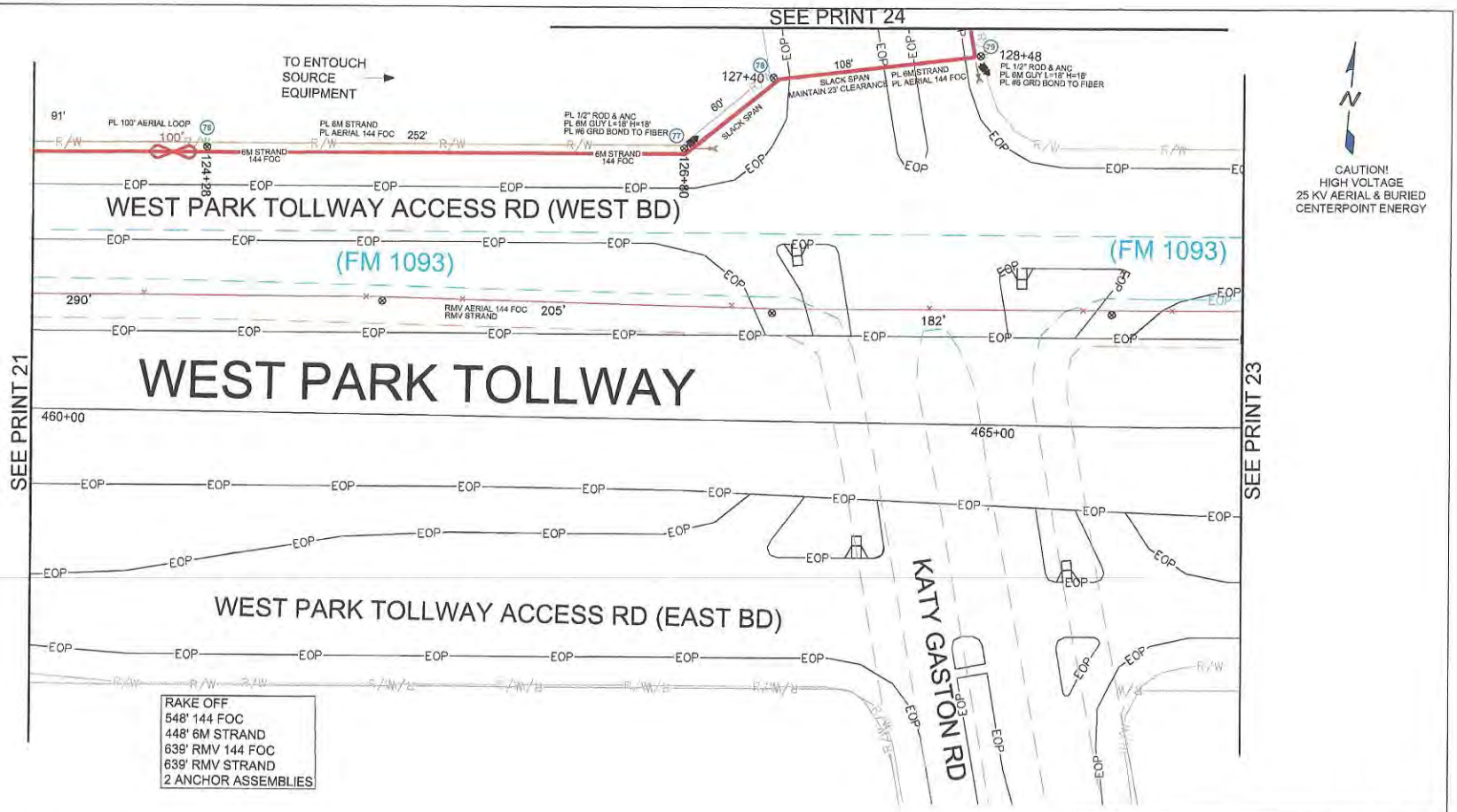
CAUTION:
UNDERGROUND GAS FACILITIES
Locations of **CENTERPOINT ENERGY** main lines (to include Unit Gas Transmission and/or Industrial Gas Supply Corporation where applicable) are shown in an approximate location only. Service lines are usually not shown. The contractor shall contact the Utility Coordinating Committee at (713) 223-4567 or 1-800-669-8344 a minimum of 48 hours prior to construction to have main service lines field located.

WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS Construction Company
9801 Hollister
Suite 250
Houston, TX 77040
713-464-9790 (Office)
713-690-1958 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	525E
PLAT:	21 OF 28
DWG NAME:	WO15CFB1074



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(X) POLE REFERENCE NUMBER

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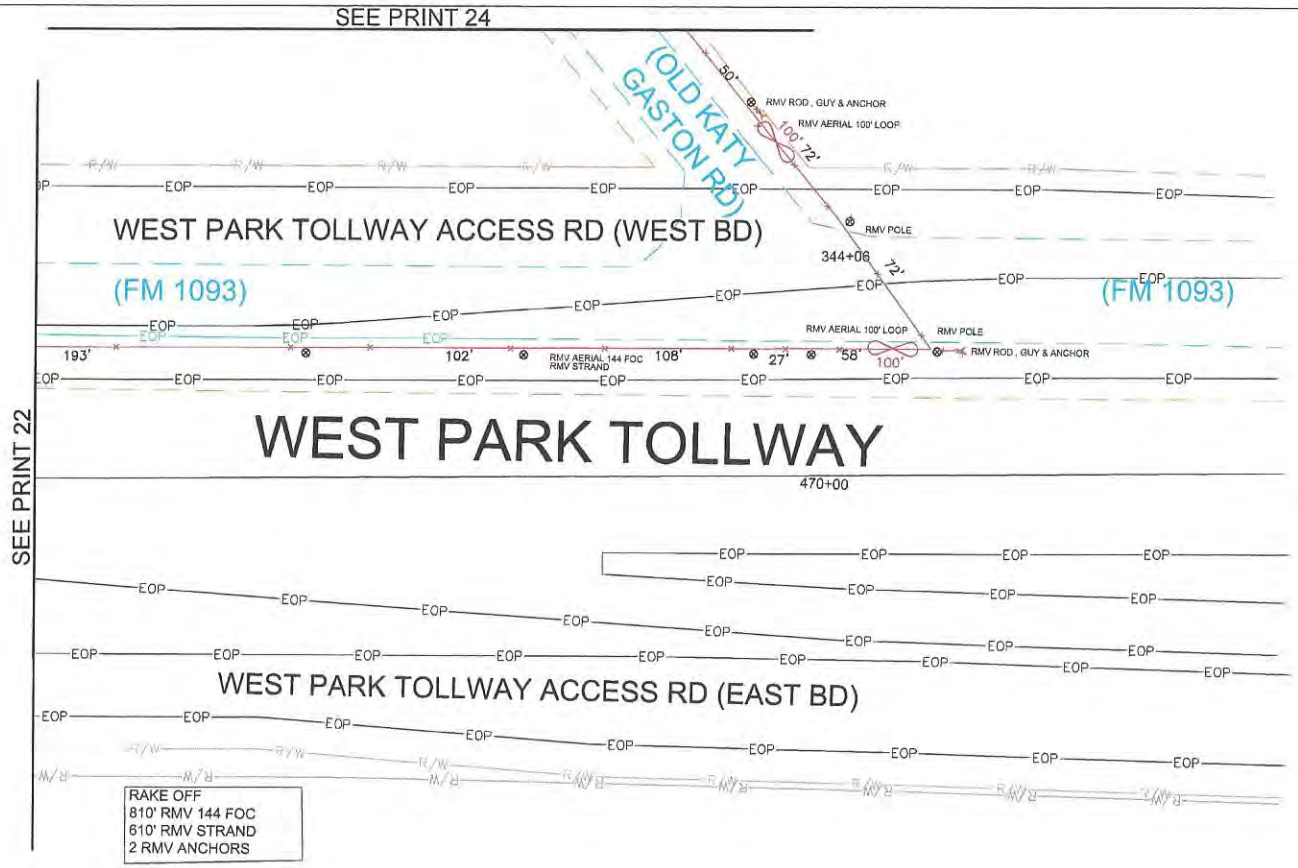
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS TELECOMMUNICATIONS COMPANY
5301 Holister
Suite 520
Houston, TX 77040
713-464-9796 (Office)
713-690-1863 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	526E
PLAT:	22 OF 28
DWG NAME:	WO15CFB1074



N

CAUTION!
HIGH VOLTAGE
25 KV AERIAL & BURIED
CENTERPOINT ENERGY

CONTRACTORS:

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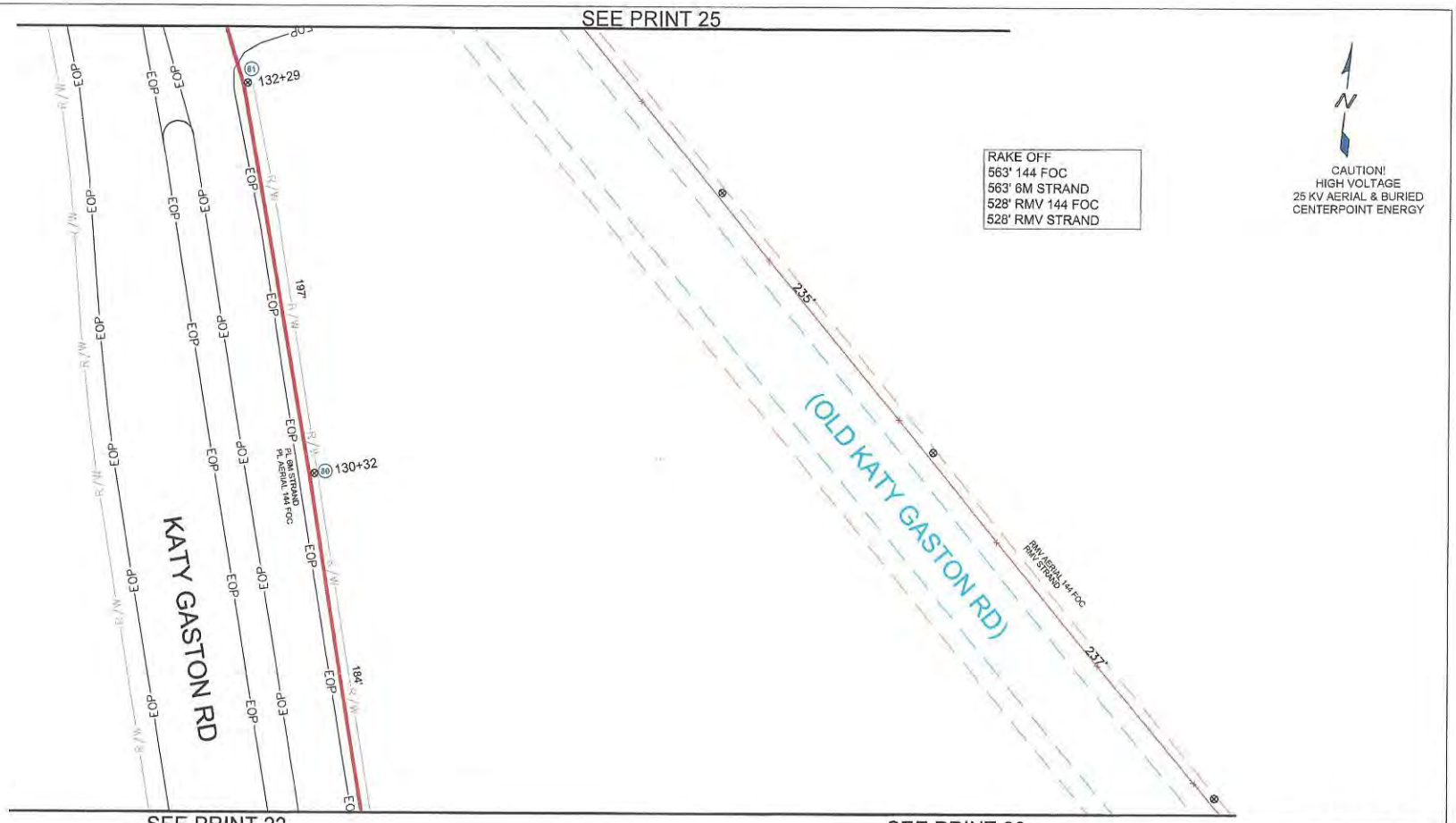
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS ENGINEERING COMPANY
5301 Hollister
Suite 220
Houston, TX 77040
713-464-8790 (Office)
713-690-1583 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	525E
PLAT:	23 OF 28
DWG NAME:	WO15CFB1074



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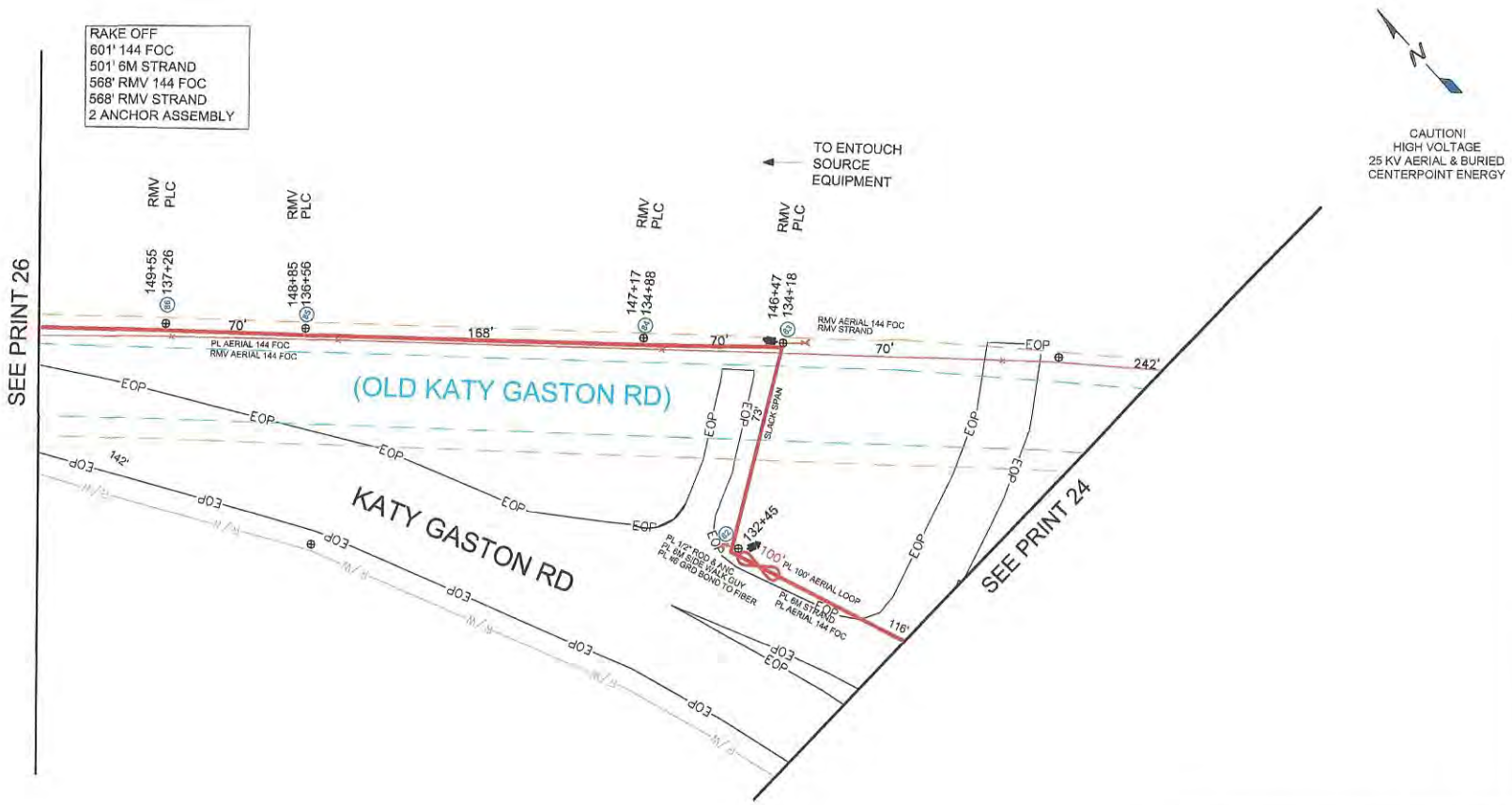
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS ENGINEERING COMPANY
8301 Hollister
Suite 202
Houston, TX 77040
713-484-9700 (Office)
713-800-1698 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	525E
PLAT:	24 OF 28
DWG NAME:	WO15CFB1074



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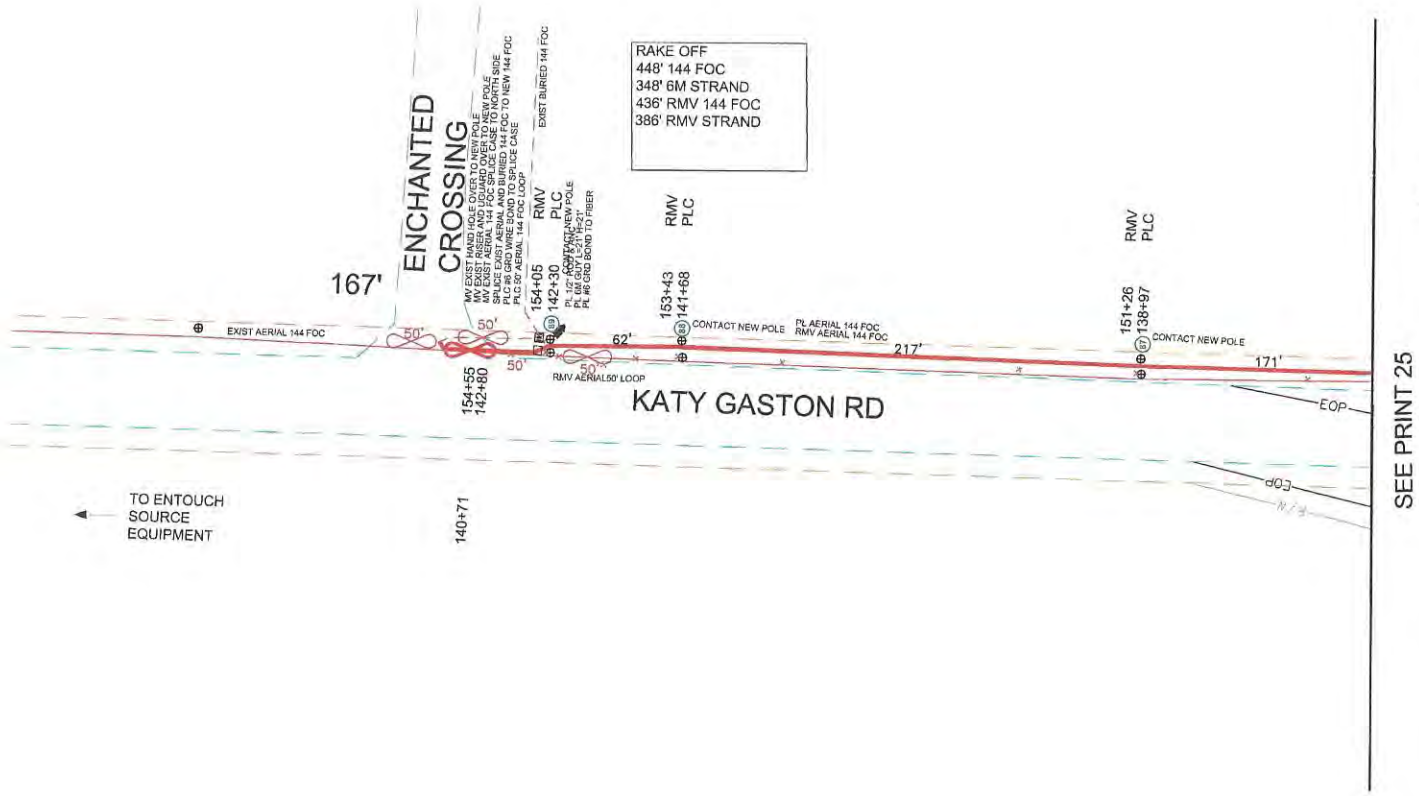
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS TELECOMMUNICATIONS COMPANY
5301 Holister
Suite 557
Houston, TX 77040
713-464-8780 (Office)
713-937-1622 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	525E
PLAT:	25 OF 28
DWG NAME:	WO15CFB1074



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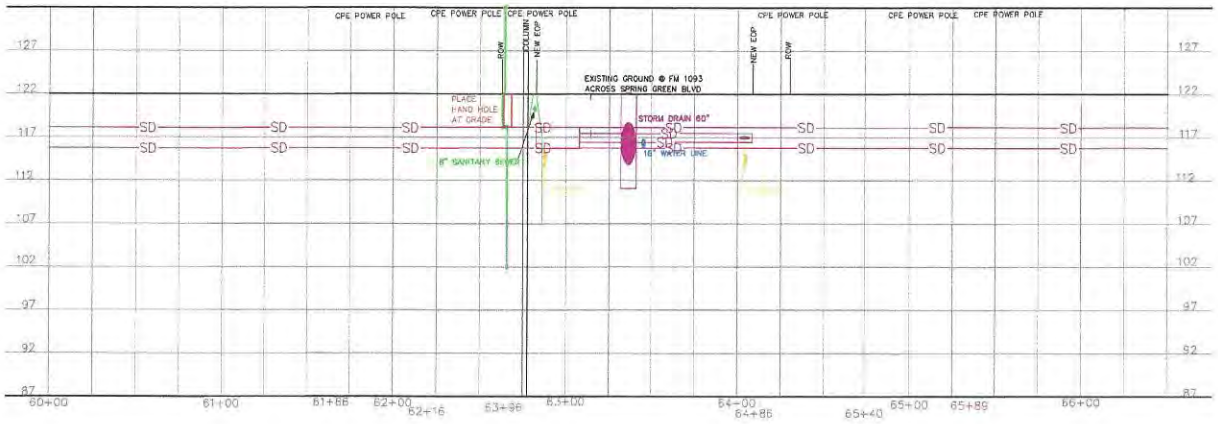
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS Construction Company
5301 Holister
Suite 550
Houston, TX 77040
713-464-9790 (Office)
713-850-1923 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	525E
PLAT:	26 OF 28
DWG NAME:	WO15CFB1074

PROFILE 1 – LOOKING NORTH FROM FM 723
NEW AERIAL CABLE ACROSS SPRING GREEN BLVD



PROFILE FOR SPRING GREEN CROSSING

CONTRACTORS:

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CENTERPOINT ENERGY NOTE:

(X) POLE REFERENCE NUMBER

PLACE CABLE AND STRAND AT 18' HEIGHT

CENTERPOINT ENERGY POLE ATTACHMENT PERMIT REQUIRED

VERTICAL

0 5'

SCALE: 1"=5'

HORIZONTAL

0 50' 100'

SCALE: 1"=100'

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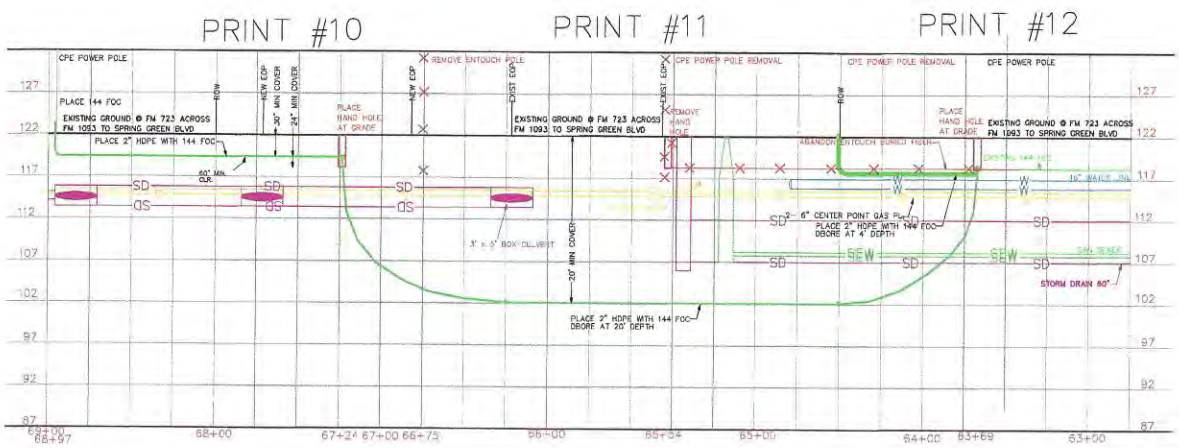
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS Construction Company
5201 Hollister
Suite 200
Houston, TX 77040
713-464-9790 (Office)
713-690-1898 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	
PLAT:	27 OF 28
DWG NAME:	WO15CFB1074

PROFILE 2 – LOOKING WEST FROM FM 1093



PROFILE FOR WEST PARK TOLLWAY CROSSING

CONTRACTORS:

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CONTACT STORM WATER SOLUTIONS, 24 HOURS PRIOR TO WORKING IN AREA FOR VEHICLE ACCESS 713-935-1044

CENTERPOINT ENERGY NOTE:

(X) POLE REFERENCE NUMBER

PLACE CABLE AND STRAND AT 18' HEIGHT

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VERTICAL

0 5'

SCALE: 1"=5'

HORIZONTAL

0 50' 100'

SCALE: 1"=100'

CAUTION:
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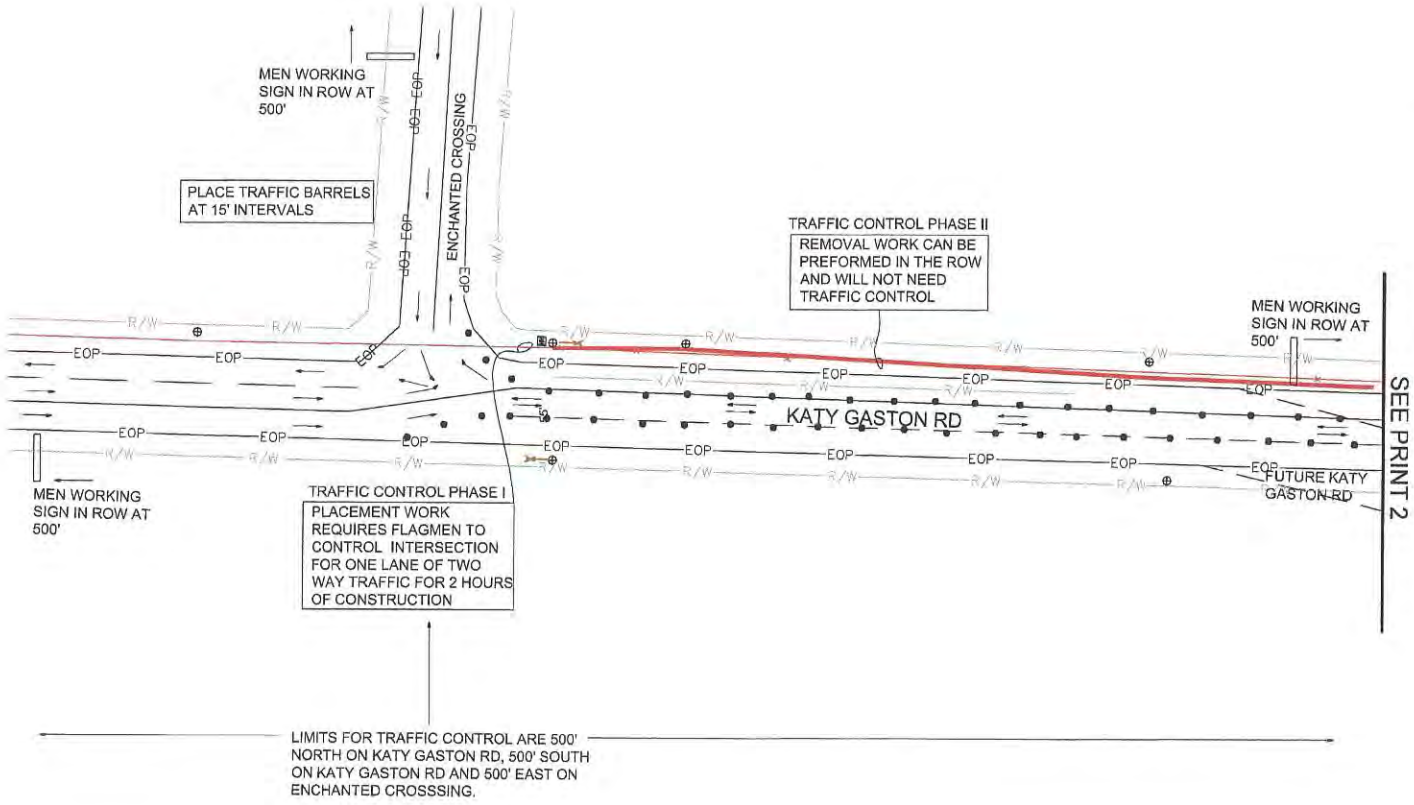
WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS ENGINEERING COMPANY
5201 Holister
Suite 200
Houston, TX 77040
713-464-9790 (Office)
713-690-1698 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	
PLAT:	28 OF 28
DWG NAME:	WO15CFB1074



TRAFFIC CONTROL

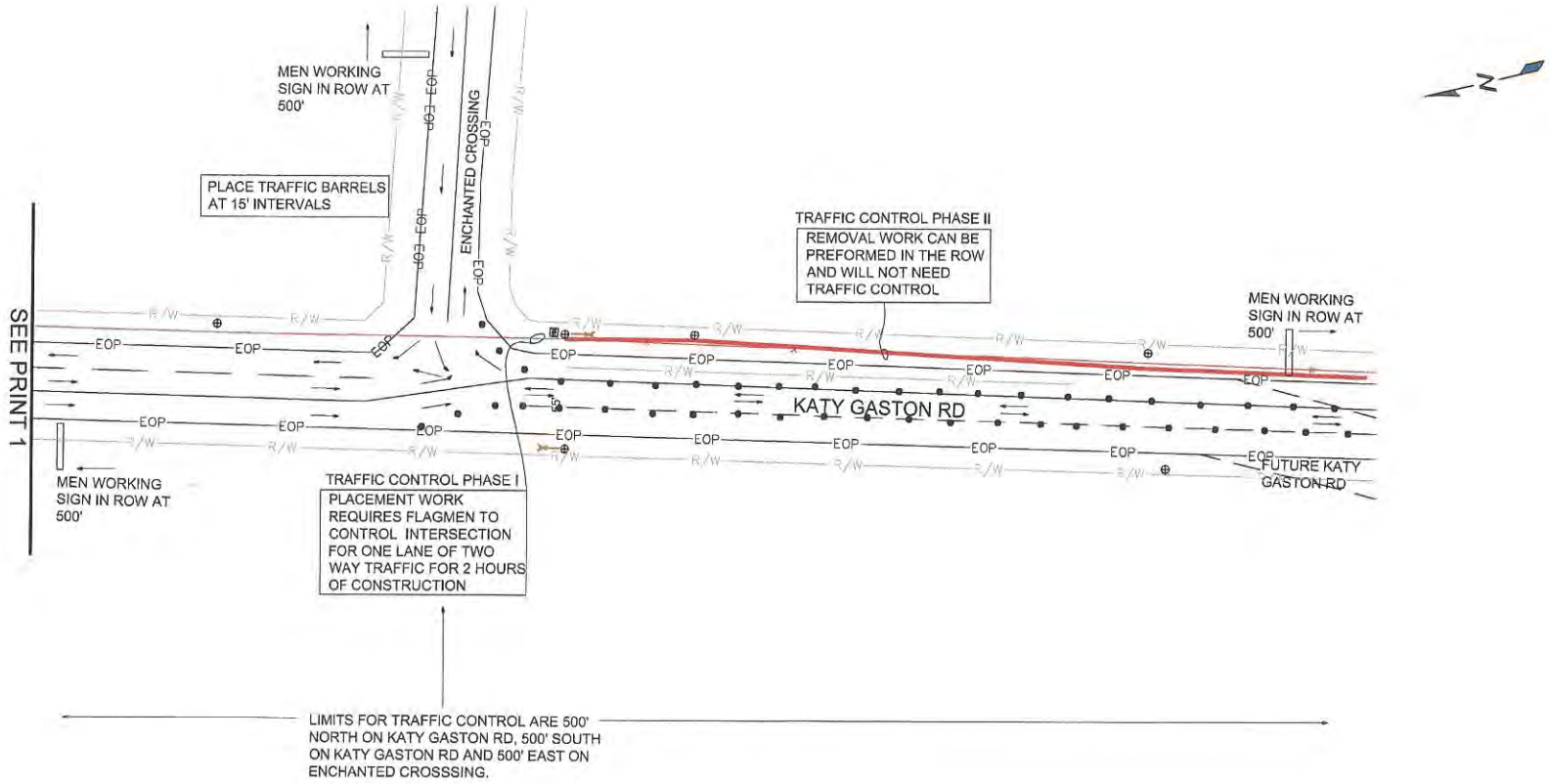
0 10' 20' 30' 40' 50'
SCALE: 1"=50'

WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS
8301 Hollister
Suite 250
Houston, TX 77040
713-464-9790 (Office)
713-800-1500 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	
PLAT:	TRAFFIC CONTROL 1 OF 2
DWG NAME:	WO15CFB1074



TRAFFIC CONTROL

0 10' 20' 30' 40' 50'
SCALE: 1"=50'

WESTPARK
TOLLWAY EXTENSION
FIBER RELOCATION

BYERS ENGINEERING COMPANY
9301 Hollister
Suite 287
Houston, TX 77040
713-464-9795 (Office)
713-690-1896 (Fax)

En-Touch

En-Touch Engineer	WESLEY PENNIX, Design By: BYERS
DRAWN BY:	BYERS
DATE:	07-06-2015
KEY MAP:	
PLAT:	TRAFFIC CONTROL 2 OF 2
DWG NAME:	WO15CFB1074

Exhibit C

En-Touch Systems, Inc.

Schedule

Start Date – January 1, 2016
(Pending Completion of CenterPoint Energy Overhead Relocation)

Completion Date – February 29, 2016
(Based on January 1, 2016 Start Date)