

**REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT**

On this 11 day of MAY, 2010, before the Fort Bend Commissioners Court came on to be heard and reviewed the accompanying notice of ENTOUCH SYSTEMS, INC.

**Job Location** BORE UNDER AND BURY CABLE ALONG SEVERAL ROADS { SEE ATTACHMENT OF ROADS}

Dated 04/29/10 BOND NO. 42BSBDJ5025 Permit No. 83753  
to make use of certain Fort Bend County property subject to, "A Revised Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, date the 3<sup>rd</sup> day of August, 1987, recorded in Volume \_\_\_\_\_ of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's Texas Civil Statutes. Upon Motion of Commissioner Meyers, seconded by Commissioner Patterson, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

**Notes:**

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
  - a. 48 hours in advance of construction start up, and
  - b. When construction is completed and ready for final inspection

Mail notices to: Permit Administrator  
Fort Bend County Engineering  
P.O. Box 1449  
Rosenberg, Texas 77471  
281-633-7500

3. This permit expires one (1) year from date of permit if construction has not commenced.

By

[Signature]  
County Engineer

By

N/A  
Drainage District Engineer/Manager

Presented to Commissioners Court  
and approved.

Recorded in Volume 5-11-10  
Minutes of Commissioners Court.

Clerk of Commissioners Court

By [Signature]  
Deputy

# COUNTY OF FORT BEND

## Engineering Department

P.O. BOX 1449

Rosenberg, Texas 77471-1449

Johnny Ortega

Permit Administrator

1124 Blume Road

Phone: (281) 341-7500

### PERMIT APPLICATION REVIEW FORM FOR CABLE, CONDUIT, AND POLE LINE ACTIVITY IN FORT BEND COUNTY

PERMIT NO. 003753

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

- X   (1) Complete Application Form.
- X       a. Name of road, street, and/or drainage ditch affected.
- X       b. Vicinity map showing course of direction.
- c. Plans and specifications.

       (2) Bond:

- District Attorney, approval when applicable.
- X       Perpetual bond currently posted.
- No. 42BSBDJ5025
- Amount \$50,000.00
- Performance bond submitted.
- No.
- Amount
- Cashier's Check.
- No.
- Amount

- (3) Verbal permission given for emergencies, to start construction before approved in Commissioner's Court.

                                 Precinct Engineer Acknowledgment

                                 Date

                                 Precinct Commissioner Acknowledgment

                                 Date

- (4)
- Drainage District Approval when applicable

We have reviewed this project and agree it meets minimum requirements.

  
Johnny Ortega CFM/ Permit Administrator  
(REVISED 5/30/08)

04/29/2010  
Date

NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY  
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES  
IN FORT BEND COUNTY

APPLICANT'S JOB NO. MISC. WWC-0881  
PERMIT No. 83753 PCT. No. 3  
BOND No. 42BSBDS5025

Formal notice is hereby given that \_\_\_\_\_  
proposes to lay, construct, maintain and/or repair cable, conduit and/or pole line, in, under,  
across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction Bored: Jacked: Driven: Cased
CINCO RANCH RD @ KATY GASTON		95'	DIRECTIONAL BORE
ENCHANTED MEADOWS @ CINCO RANCH		95'	DIRECTIONAL BORE
GASTON RD. @ CINCO RANCH		95'	DIRECTIONAL BORE

\* ADDITIONAL BORES PAGE 2 Along Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	To	Distance
CINCO RANCH RD	KATY GASTON	SH 99	± 16,217'
COMMERCIAL CENTER	CINCO RANCH RD	LA CENTERA PL	487'

General Description

BORE AND PLACE 1 1/4" HDPE AND FIBER OPTIC CABLE TO LA CENTERA

The Location and description of the proposed installation and appurtenances is more fully shown on the attached detail drawings. The laying, construction, maintenance and/or repair of the proposed installation shall be subject to "A Revised Order Regulating the Laying, Construction, Maintenance and/or Repair of Cables, Conduits, and/or Pole Lines, In, Under, Across, or Along Roads, Streets, Highways and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by Commissioners Court of Fort Bend County, Texas, dated the 3rd. day of August, 1987, recorded in Volume 639 of the Minutes of the Commissioners Court of Fort Bend County, Texas.

Written notices are required: 1) 48 hours in advance of start of construction and  
2) when construction is complete and ready for final inspection.

Mail to: Permit Administrator/Fort Bend County Engineering  
P.O. Box 1449, Rosenberg, TX 77471.

Violation of requirements shall constitute grounds for job shut down.

COMPANY NAME: ENTOUCH SYSTEMS, INC

AGENT and/or OWNER

Jimmie E Duke  
(Signature)

NAME & TITLE JIMMIE DUKE, MGR. DSP. ENG.  
(Please Print)

DATE APRIL 26, 2010

ADDRESS 11011 RICHMOND AVE. SUITE 400  
(Street/P.O. Box)

HOUSTON

TX

77042

City

State

Zip

TELEPHONE NO: 281-924-2088

(accessible 24 hrs/day, 7 days/week)

Does project  
comply with Fort  
Bend County  
Outdoor Lighting  
Ordinance?

Yes (✓)

No ( )

NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY  
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES  
IN FORT BEND COUNTY

APPLICANT'S JOB NO. MISC-WWC-0881

PERMIT No. \_\_\_\_\_ PCT. No. \_\_\_\_\_

BOND No. \_\_\_\_\_

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proposes to lay, construct, maintain and/or repair cable, conduit and/or pole line, in, under,  
across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction Bored: Jacked: Driven: Cased
RIVER GREEN PARK @ CINCO RANCH RD.		95'	DIRECTIONAL BORE
CINCO CROSSING LN @ CINCO RANCH RD		95'	DIRECTIONAL BORE
HERITAGE GRAND LN @ CINCO RANCH RD		95'	DIRECTIONAL BORE

Along Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	To	Distance

General Description

Page 2 of 4

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Does project  
comply with Fort  
Bend County  
Outdoor Lighting  
Ordinance?

Yes (✓)

No ( )

COMPANY NAME: ENTOUCH SYSTEMS INC.

AGENT and/or OWNER

Jimmie E Duke JIMMIE DUKE  
(Signature)

NAME & TITLE MGR. DSP ENGINEERING  
(Please Print)

DATE APRIL 26, 2010

ADDRESS 11011 RICHMOND AVE SUITE 400  
(Street/P.O. Box)

HOUSTON TX 77042  
City State Zip

TELEPHONE NO: 281-924-2088  
(accessible 24 hrs/day, 7 days/week)

NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY  
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES  
IN FORT BEND COUNTY

APPLICANT'S JOB NO. MISC, WWC-0881

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BOND No. \_\_\_\_\_

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across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	: Distance & Direction From : Nearest Intersection	: Length of : Crossing	: Type of Construction Bored: Jacked: Driven: Cased
CINCO MANOR @ CINCO RANCH	:	60'	: DIRECTIONAL BORE
HAMPTONSHIRE LN @ CINCO RANCH	:	95'	: DIRECTIONAL BORE
GLENWORTH DR @ CINCO RANCH	:	95'	: DIRECTIONAL BORE

Along Roads and/or Drainage Ditches

Road or Ditch Name	: Distance & Direction From : Nearest Intersection	: To : Distance
:	:	:
:	:	:
:	:	:

General Description

PLAGE 3 of 4

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Mail to: Permit Administrator/Fort Bend County Engineering  
P.O. Box 1449, Rosenberg, TX 77471.

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<p>Does project comply with Fort Bend County Outdoor Lighting Ordinance?</p> <p>Yes ( <input checked="" type="checkbox"/> )</p> <p>No ( <input type="checkbox"/> )</p>
--

COMPANY NAME: ENTOUCH SYSTEMS INC.

AGENT and/or OWNER

Jimmie E. Duke JIMMIE DUKE  
(Signature)

NAME & TITLE MGR. BSP ENGINEERING  
(Please Print)

DATE APRIL 26. 2010

ADDRESS 11011 RICHMOND AVE. SUITE 400  
(Street/P.O. Box)

HOUSTON TX 77042  
City State Zip

TELEPHONE NO: 281-924-2088  
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NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY  
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES  
IN FORT BEND COUNTY

APPLICANT'S JOB NO. MISC. WNC-0881

PERMIT No. \_\_\_\_\_ PCT. No. \_\_\_\_\_

BOND No. \_\_\_\_\_

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across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction Bored: Jacked: Driven: Cased
WESTHEIMER PKWY.	@ CINCO RANCH	95'	DIRECTIONAL BORE
CINCO CENTER BLVD.	@ CINCO RANCH	95'	DIRECTIONAL BORE
COMMERCIAL CENTER BLVD.	@ CINCO RANCH	95'	DIRECTIONAL BORE

Along Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	To	Distance

General Description

PAGE 4 of 4

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COMPANY NAME: ENTOUCH SYSTEMS INC.

AGENT and/or OWNER

Jimmie E. Duke JIMMIE E. DUKE  
(Signature)

NAME & TITLE MGR. OSP ENGINEERING  
(Please Print)

DATE APRIL 26, 2010

ADDRESS 1101 RICHMOND AVE. SUITE 400  
(Street/P.O. Box)

HOUSTON TX 77042  
City State Zip

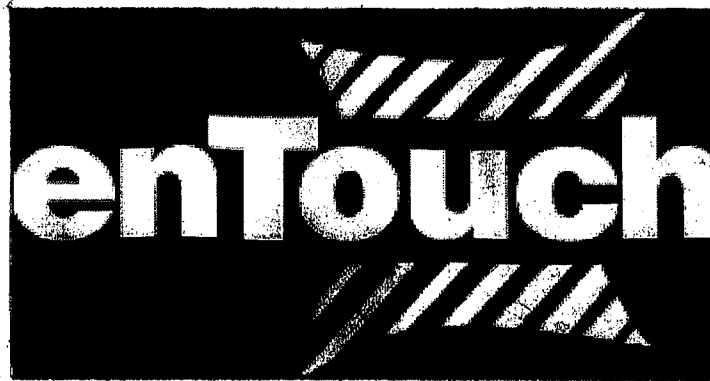
TELEPHONE NO: 281-924-2088  
(accessible 24 hrs/day, 7 days/week)

Does project  
comply with Fort  
Bend County  
Outdoor Lighting  
Ordinance?

Yes (✓)

No ( )





**FEEDER FIBER TO LA CENTERA**

**CONSTRUCTION PROJECT** MISC.WWC-0881

**DESCRIPTION** BORE ± 16,217' OF 1 1/4" HDPE ALONG  
CINCO RANCH ROAD, BEGINNING AT KATY GASTON  
ROAD AND CONTINUING TO NE PROPERTY LINE  
OF LA CENTERA. THEN ALONG COMERCIAL CENTER  
BLVD. FROM CINCO RANCH ROAD TO SW CORNER  
PROPERTY LINE OF LA CENTERA SHOPPING CENTER.  
PLACE FIBER OPTIC CABLES IN 1 1/4" HDPE

**CONTACT** JIMMIE DUKE

**TITLE** MGR. OSP ENGINEERING

**PHONE#** 281-924-2088

**DATE** APRIL 26, 2010



GENERAL NOTES:

- 1. ALL WORK WILL COMPLY WITH APPLICABLE LOCAL AND REGULATORY AGENCIES INCLUDING, BUT NOT LIMITED TO, OSHA, ETC. GENERAL NOTES WILL APPLY TO ALL DRAWINGS.
- 2. THE CONTRACTOR WILL NOTIFY (IF APPLICABLE) THE ADJACENT PROPERTY OWNERS A MINIMUM OF 24 HOURS IN ADVANCE OF CONSTRUCTION.
- 3. ALL TRAFFIC CONTROL DEVICES WILL BE IN PLACE PRIOR TO CONSTRUCTION. DEVICES NO LONGER NEEDED WILL BE REMOVED AS QUICKLY AS POSSIBLE.
- 4. PEDESTRIAN TRAFFIC AREAS MUST BE MAINTAINED AT ALL TIMES. PEDESTRIANS WILL NOT BE ROUTED OFF PRIVATE PROPERTY.
- 5. NO MATERIALS OR EQUIPMENT WILL BE STORED OR ALLOWED TO STAND UNPROTECTED WHERE PEDESTRIAN OR VEHICULAR TRAFFIC IS PRESENT.
- 6. NO EQUIPMENT OR MATERIALS WILL BE STORED ON ROAD SURFACE DURING NON-WORK PERIODS.
- 7. NO EQUIPMENT OR MATERIALS WILL BE STORED ON THE SIDEWALK AT ANY TIME.
- 8. EXCAVATION MATERIAL WILL BE STORED AWAY FROM THE PAVED ROADWAY. ALL SPILLED MATERIAL WILL BE PICKED UP IMMEDIATELY.
- 9. EXISTING SIGNS, DELINEATORS, GUARDRAILS, MARKERS, TREES, SHRUBS, FENCES, WALKS, STEPS, ETC. THAT ARE DISTURBED BY THIS CONSTRUCTION WILL BE REPLACED OR RESTORED TO ORIGINAL OR BETTER CONDITION OR TO THE SATISFACTION OF THE TYPES ENGINEER, PROPERTY OWNER, OR ANY MUNICIPAL AUTHORITY HAVING JURISDICTION.
- 10. MUNICIPAL ROAD SIGNS, DELINEATORS, GUARDRAILS, ETC. WILL NOT BE REMOVED WITHOUT PRIOR WRITTEN PERMISSION FROM THE APPROVING AUTHORITY.
- 11. ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE CITY, COUNTY AND STATE SPECIFICATIONS AND STANDARDS.
- 12. UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE RECORDS AND FIELD OBSERVATIONS, BUT ARE NOT NECESSARILY ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF UTILITIES PRIOR TO ANY CONSTRUCTION. ANY CHANGES IN UTILITY PLACEMENT CAN BE MADE AT ANY TIME.
- 13. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING PUBLIC AND/OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER LINES AND TRAFFIC SIGNAL CONDUITS. WASTEWATER COLLECTION SYSTEMS, STORM SEWERS DURING CONSTRUCTION, ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING. STANDARD CONSTRUCTION SPECIFICATIONS WITH THE LATEST AMENDMENTS THEREOF, WITH NO COST TO THE CITY OF HOUSTON STREET, BRIDGE AND R.O.W.
- 1. COMPLETION OF THE ROAD AND/OR RIGHT OF WAY UPON COMPLETION OF JOB SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.
- 2. EXPOSE 15' OF REINFORCING STEEL AT PROPOSED SAVED JOINT. IF NO REINFORCING STEEL IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A MINIMUM OF 24" OF CONCRETE OVER THE JOINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A MINIMUM OF 24" OF CONCRETE OVER THE JOINT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A MINIMUM OF 24" OF CONCRETE OVER THE JOINT.
- 3. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY.
- 5. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE AS SEVERED IN CITY OF HOUSTON ORDINANCE, NEARBY AND 17' AS SEVERED IN CITY OF HOUSTON ORDINANCE IN ACCORDANCE WITH CITY OF HOUSTON STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND MEET ADA REQUIREMENTS AND EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.
- 7. DRIVEWAYS, SIDEWALKS AND PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PLANNING/DEVELOPMENT AND ENGINEERING'S STANDARD CONSTRUCTION DETAILS FOR DATED SEPTEMBER 1997, AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING, DATED JULY 1997 UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN IS CONSISTENT WITH THE MINIMUM STANDARDS ESTABLISHED IN THE "DESIGN MANUAL FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING", DATED OCTOBER 1999.

CONSTRUCTION NOTES

- 1. DIRECTIONAL BORING WILL BE UTILIZED WHEREVER POSSIBLE. ALL EXCAVATIONS WILL BE BACKFILLED PER CITY, DOT, AND COUNTY SPECIFICATIONS.
- 2. FIBER OPTIC WARNING TAPE WILL BE PLACED 12" BELOW THE EXISTING GRADE IN ALL EXCAVATIONS.
- 3. VERIFICATION OF THE LOCATION OF EXISTING UTILITY CROSSING IS THE RESPONSIBILITY OF THE CONTRACTOR. HAND DIGGING WILL BE UTILIZED WHERE REQUIRED.
- 4. CALL THE LOCAL UTILITY ONE-CALL AT LEAST 72 HOURS IN ADVANCE OF ANY CONSTRUCTION.
- 5. A 24" SEPARATION BETWEEN CITY OF HOUSTON FACILITIES AND OTHER UTILITIES WILL BE MAINTAINED.
- 6. CONDUIT COPS WILL BE PLACED ON THE ENDS OF ALL VACANT DUCTS DURING CONSTRUCTION, UPON COMPLETION, AND WHILE AWAITING FIBER INSTALLATION.
- 7. RELOCATE EXISTING HOPE CONDUIT AS SHOWN ON CONSTRUCTION DRAWINGS.
- 8. THE MINIMUM BENDING RADIUS FOR FIBER CABLE WILL BE 24" POUNDS. A 800 POUND BREAKAWAY SWIVEL WILL BE USED DURING PULLING.
- 10. THE REMOVAL AND STORAGE OF ALL SHRUBBERY TO BE REPLACED IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. THE CONTRACTOR WILL BE RESPONSIBLE FOR RESTORING THE CONSTRUCTION AREA TO ORIGINAL OR BETTER CONDITION.
- 12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN CONSTRUCTION AS-BUILT DRAWINGS AND PRESENT A COMPLETE SET OF RED-LINED DRAWINGS TO TYPES AND THE CITY OF HOUSTON WITHIN 14 DAYS OF COMPLETION OF NO MORE THAN SIX (6) INCHES ABOVE THE FLOOR GRADE IN HANDHOLES.
- 14. PLACE AT LEAST EIGHT (8) INCHES OF CRUSHED ROCK IN THE BOTTOM OF HANDHOLE PITS PRIOR TO PLACING THE WIRE MESH (2 SQUARES PER INCH) AND THE HANDHOLE.
- 15. PLACE 100 FEET FIBER SLOTTED COIL IN EACH HANDHOLE/HANDHOLE.
- 16. BURNED POWER LINES: HAND DIG AS REQUIRED.
- 17. BURNED FIBER OPTIC TELEPHONE CABLES: HAND DIG AS REQUIRED.
- 18. BURNED CANY CABLES: HAND DIG AS REQUIRED.
- 20. BORE OUTSIDE THE DRIPLINE OF ALL TREES TO PREVENT ROOT DAMAGE.
- 21. WHEN TREENING, BORE IF A TREE ROOT OF 1" DIAMETER OR LARGER IS ENCOUNTERED.
- 22. UNLESS OTHERWISE INDICATED, RIGHT OF WAY (ROW) LINES COINCIDE WITH THE BACK OF SIDEWALK.
- 23. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY.
- CALL TEXAS ONE CALL 800-1-(800) 245-4545.

ALL EXCAVATIONS MUST SECURE "LANE STREET CLOSURE PERMITS" FROM THE CITY'S DEPARTMENT OF PLANNING/DEVELOPMENT AND ENGINEERING BEFORE CLOSING A LANE, STREET, OR SIDEWALK. THE REQUEST MUST BE MADE AT LEAST THREE BUSINESS DAYS PRIOR TO THE DATE FOR WHICH THE CLOSURE IS SOUGHT. NOTE THAT WORKING HOURS MAY BE RESTRICTED OR THE REQUEST MAY BE DENIED. CALL (713) 857-7260 FOR AN APPLICATION.

TRENCH SAFETY SYSTEMS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE SHOP DRAWINGS FOR THE TRENCH SAFETY SYSTEM AS REQUIRED BY O.S.H.A. BY A LICENSED PROFESSIONAL ENGINEER RETAINED AND PAID BY THE CONTRACTOR.

UNDERGROUND GAS FACILITIES

LOCATIONS OF RELIANT ENERGY ENTER 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 AND SERVICE LINES FIELD LOCATED. WHEN RELIANT ENERGY ENTER PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 987-5037 (7:30 AM TO 4:30 PM) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF RELIANT ENERGY ENTER FACILITIES, ALL EXCAVATION MUST BE ACCOMPISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN RELIANT ENERGY ENTER FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

STREETS, DRIVEWAYS, SIDEWALKS, PAVING, WATER LINES, WASTEWATER COLLECTION SYSTEMS, AND DRAINAGE SYSTEMS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S STANDARD CONSTRUCTION SPECIFICATIONS, DATED SEPTEMBER 1997, AND STANDARD CONSTRUCTION DETAILS FOR EXISTING COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING, DATED JULY 1997, UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN IS CONSISTENT WITH THE MINIMUM STANDARD ESTABLISHED IN THE "DESIGN MANUAL FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING", DATED OCTOBER 1999.

FLOOD PLAN INFORMATION

FEDERAL EMERGENCY MANAGEMENT AGENCY  
MAP NUMBERS: J  
46157C0280 J  
REVISION DATE: JANUARY 5, 1997

PROJECT IS OUT OF OTHER FLOOD AREAS ZONE "X"  
AREAS DETERMINED TO BE AROUND 500-YEAR FLOOD-PLAIN.  
PROJECT IS OUT OF OTHER FLOOD AREAS ZONE "X"  
AREAS OF 500-YEAR FLOOD AREAS OF 100-YEAR FLOOD  
WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH  
DRAINAGE AREAS LESS THAN 1 SQUARE MILE, AND AREAS  
PROTECTED BY LEAVES FROM 100-YEAR FLOOD  
PROJECT IS OUT OF OTHER FLOOD AREAS ZONE "X"  
SPECIAL FLOOD HAZARD AREAS INDICATED BY 100-YEAR  
FLOOD: BASE FLOOD ELEVATIONS DETERMINED.

DISCLAIMER

GENERAL NOTES:  
1. ALL KNOWN UNDERGROUND UTILITIES AND STRUCTURES ARE PRESUMED TO BE ACCURATELY LOCATED AND FIELD ENGINEERING OBSERVATIONS SHALL BE THE BASIS FOR THE LOCATION, PROTECT AND REPAIR IF DAMAGED.  
2. CALL UNDERGROUND SERVICE ALERT AT 800-4-A-SHIELD (472-7443) PRIOR TO EXCAVATIONS.  
3. CONTRACTORS RESPONSIBLE FOR ALL UNDERGROUND STRUCTURES

JOB NUMBER: MISC WML-0881

TOTALS

FIBER THIS SHEET: \_\_\_\_\_  
FIBER CUMULATIVE: \_\_\_\_\_  
STATIONING: \_\_\_\_\_  
CONDUIT: \_\_\_\_\_

MATERIAL LIST

QUANTITY



MISC. WML-0881

En-Touch Systems

EMERGENCY# 1-281-724-2048

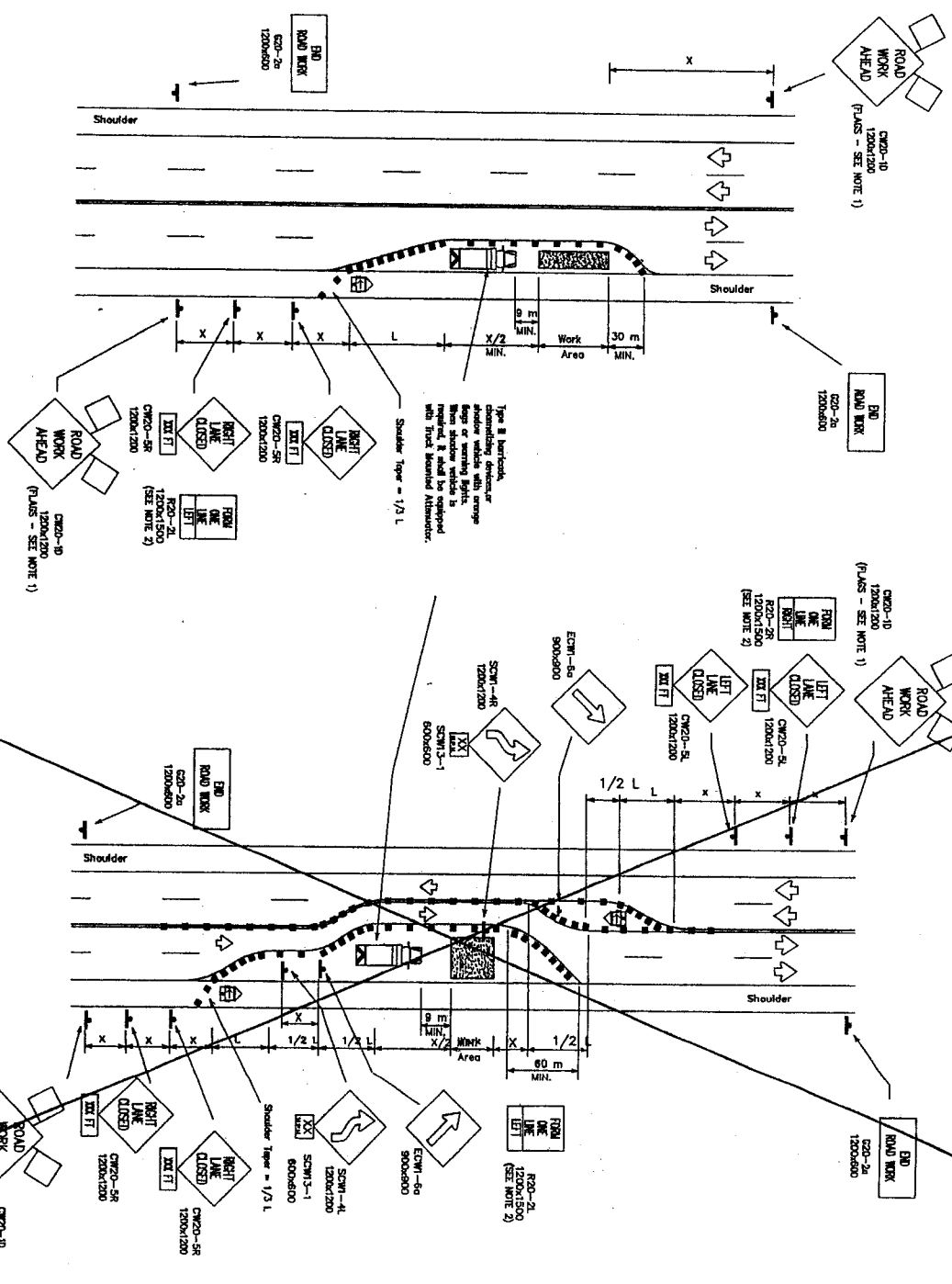
GENERAL NOTES

FILE NO	DATE	BY	DATE
SHAWING SCALE	N.T.S.		
VERT	N/A	REV	N/A
SHEET NO	1	OF	33

The equipment for shoring vehicles will be listed in the project GENERAL NOTES Item 502, Boredocks, Signs and Traffic Signals.

TCP (2-5a)(M)  
One Lane Closed  
More Than Two Weeks

TCP (2-5b)(M)  
Two Lanes Closed  
More Than Two Weeks



LEGEND

Type III Borehole	Shoring Devices	Flag
Heavy Work Vehicle	Truck Mounted Attenuator	
Trailer Mounted	Portable Chaperone	
Flashing Arrow Panel	Message Sign	
Trapper	Sign Post	

Posted Speed	Advance Warning Distance (ft)	Shoring Distance (ft)	Shoring Length (ft)	Shoring Width (ft)	Shoring Height (ft)	Shoring Weight (lb)
30	45	50	5.5	9	15-20	40
35	50	55	6.0	10	20-25	50
40	55	60	6.5	11	25-30	60
45	60	65	7.0	12	30-35	70
50	65	70	7.5	13	35-40	80
55	70	75	8.0	14	40-45	90
60	75	80	8.5	15	45-50	100
65	80	85	9.0	16	50-55	110
70	85	90	9.5	17	55-60	120

GENERAL NOTES

- Unless otherwise stated in the plans, signs attached to signs are REQUIRED.
- The FROM ONE LANE LEFT (or RIGHT) sign may be used following the sign for the minimum distance indicated.
- When the work zone will be in place more than two weeks, conflicting pavement markings shall be removed. New markings shall be installed and maintained to the satisfaction of the Engineer.
- Downstream taper is optional. When used, it should be 30 ft minimum length per lane.
- See TYPICAL CHANGELANE DRIVERS, note #2 for recommended 3' taper dimensions. Driver spacing.

Only pre-qualified products shall be used. A list of approved products and their sources may be obtained by writing or faxing Standards Engineer, Traffic Operations Division - TE, Texas Department of Transportation, 125 East 11th Street, Austin, Texas 78701-2463. Phone (512) 416-3335. Fax (512) 416-3161. E-mail: TTE-STANDARDS@tdot.state.tx.us

All dimensions are in millimeters unless otherwise noted.

TRAFFIC CONTROL PLAN

TCP(2-5)-98(M)

Section	Length (ft)	Width (ft)	Height (ft)	Weight (lb)
1-1	100	10	10	100
1-2	100	10	10	100
1-3	100	10	10	100
1-4	100	10	10	100
1-5	100	10	10	100

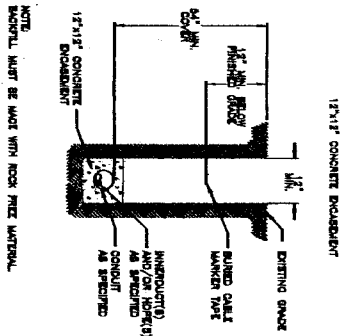


En-Touch Systems, Inc.

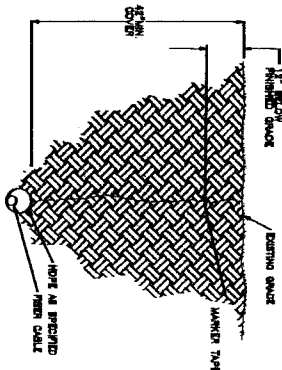
PROJECT: MISC. W/MC-DB21  
TRAFFIC CONTROL PLAN  
CINLO RANCLU ROAD

SCALE: N.T.S.  
DATE: 4/19/2018  
DRAWN BY: CFA/RA  
SHEET 21 OF 23

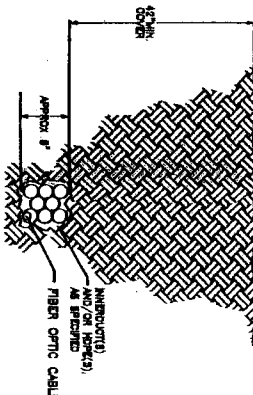
TYPICAL DETAIL 'B' INDUSTRY STANDARD



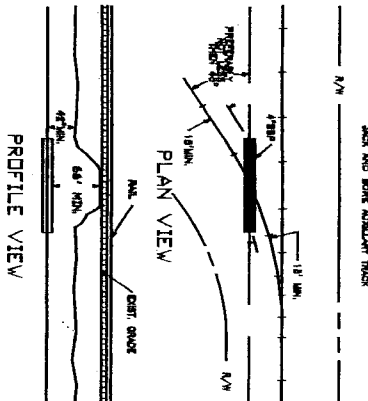
TYPICAL DETAIL 'C' INDUSTRY STANDARD



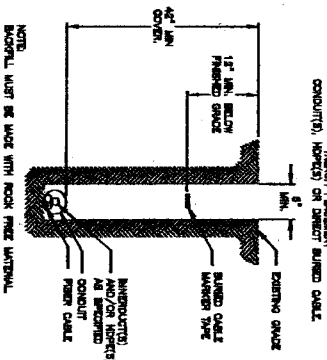
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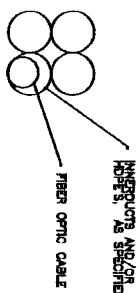
INDUSTRY STANDARD  
TYPICAL DETAIL 'D'



TYPICAL DETAIL 'A' INDUSTRY STANDARD

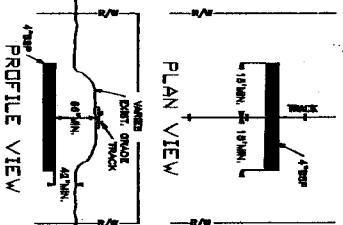


INDUSTRY STANDARD  
TYPICAL DETAIL 'D'

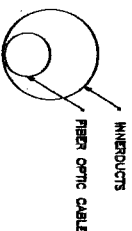


\* DIRECTIONAL BORE ALL CABLE WITH 4\"/>

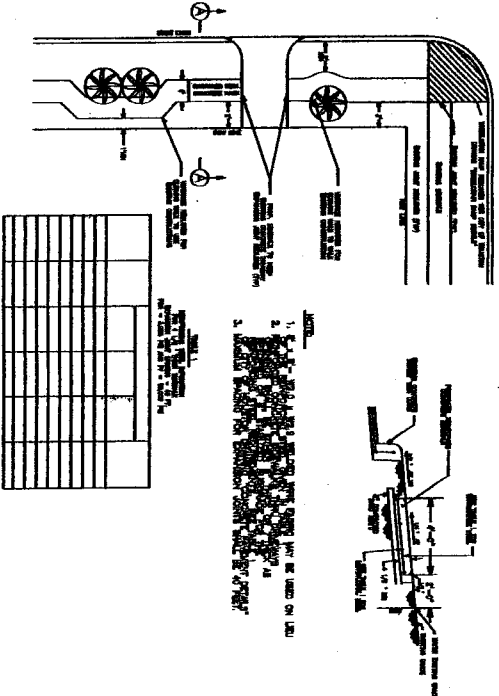
INDUSTRY STANDARD  
TYPICAL DETAIL 'F'



INDUSTRY STANDARD  
TYPICAL DETAIL 'E'



CONCRETE STRUCTURE DETAILS



DISCLAIMER

GENERAL NOTES:  
1. AND SHOWN UNDERGROUND UTILITIES  
2. DRAWINGS AND NOTED FROM AVAILABLE  
3. CONTRACTORS RESPONSIBILITY TO  
4. LOCATE, PROTECT, AND REPAIR IF  
5. PRIOR TO EXCAVATIONS. SERVICE ALERT AT  
6. FOR HOLDING, LOCKING AND FILING  
7. ALL UNDERGROUND STRUCTURES.

JOB NUMBER: MISC WWC-D881

TOTALS

FIBER THIS SHEET: \_\_\_\_\_  
FIBER CUMULATIVE: \_\_\_\_\_  
STATIONING: \_\_\_\_\_  
CONDUIT: \_\_\_\_\_

MATERIAL LIST

QUANTITY	



MISC. WWC-D881

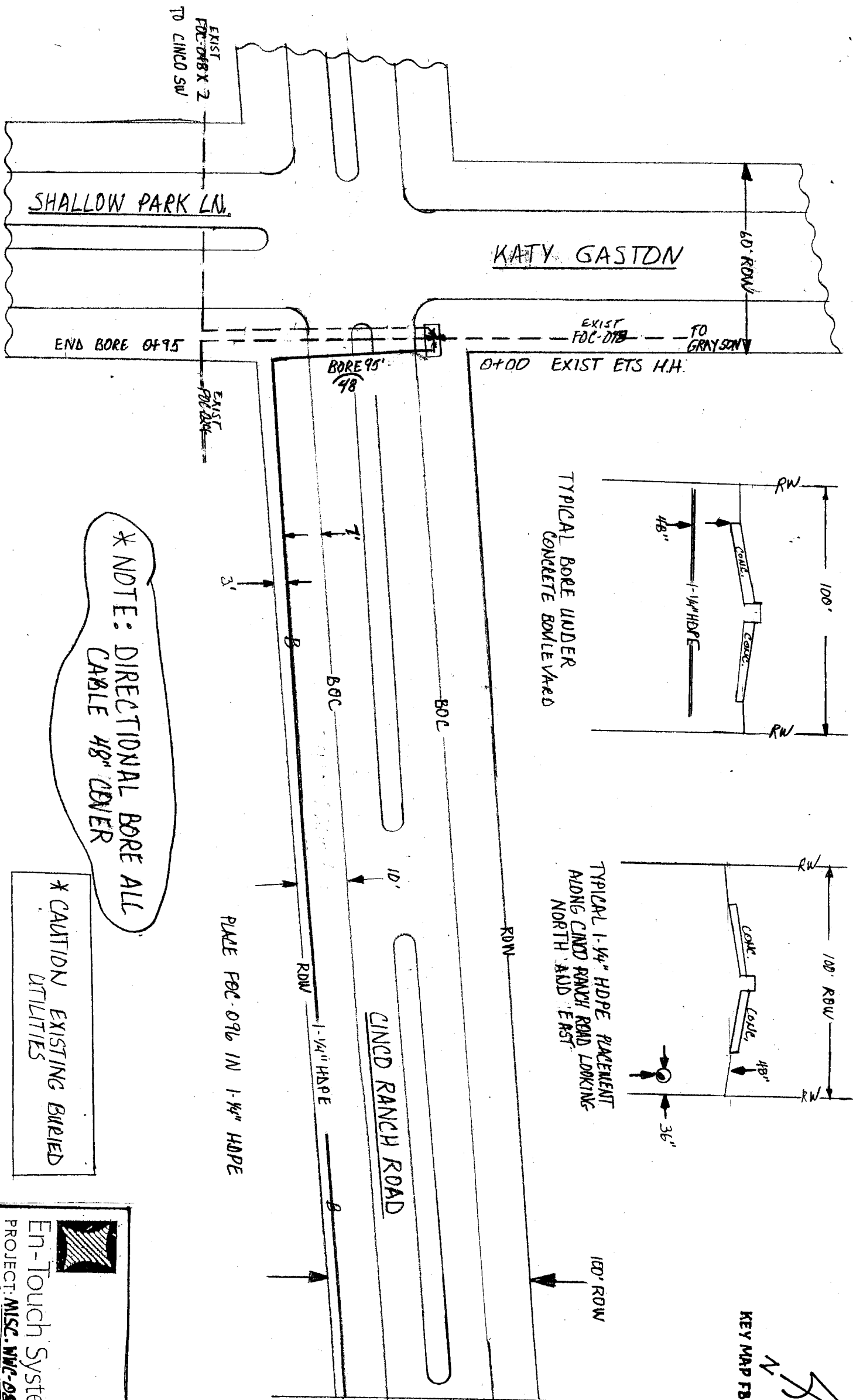
EMERGENCY\* 281-234-2088

En-Touch Systems

CONSTRUCTION  
DETAIL

FILE NO.	4-19-2010
DATE	
DRAWING SCALE	NTS
VERT.	N/A
HORIZ.	N/A
SHEET NO.	22 of 23






\* NOTE: DIRECTIONAL BORE ALL  
CABLE 48" CENTER

\* CAUTION EXISTING BURIED  
UTILITIES

TYPICAL BORE UNDER  
CONCRETE BOWTIE YARD

TYPICAL 1-1/4" HDPE PLACEMENT  
ALONG CINC D RANCH ROAD LOOKING  
NORTH AND EAST

KEY MAP FB 5846



En-Touch Systems

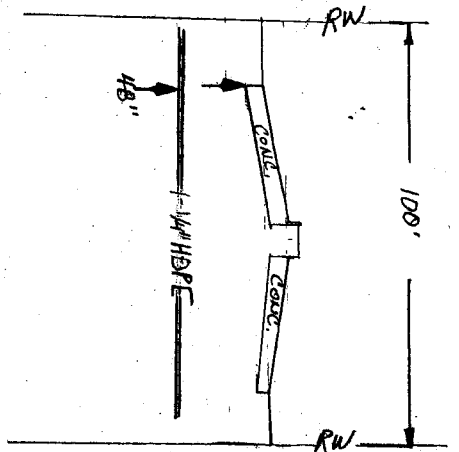
PROJECT: MISC. WWC-0881

PLAT 2 OF 23

SCALE: NONE

SEE PLAT 2

TYPICAL BORE UNDER  
CONCRETE BOULEVARD



ENCHANTED MEADOWS

ROW

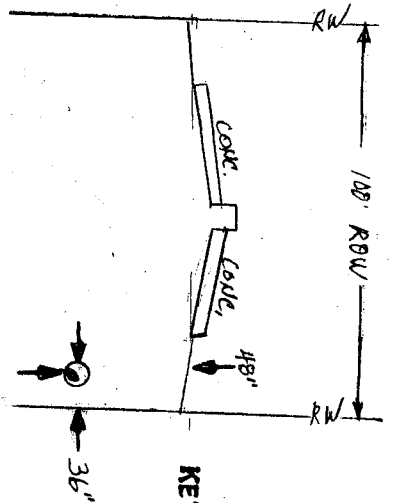
BOC

BOC

ROW

\* CAUTION - BURIED UTILITIES

TYPICAL 1-1/4" HDPE PLACEMENT  
ALONG CINCO RANCHO ROAD LOOKING  
NORTH AND EAST



KEY MAP FB 4842



CINCO RANCHO ROAD

100' ROW

SEE PLAT 4

ROW

B

14+50

15+50

ROW

BOC

3'

1-1/4" HDPE

10'

7'

PLACE FOR 096 IN 1-1/4" HDPE

B

\*NOTE DIRECTIONAL BORE ALL  
CABLE - 48" COVER



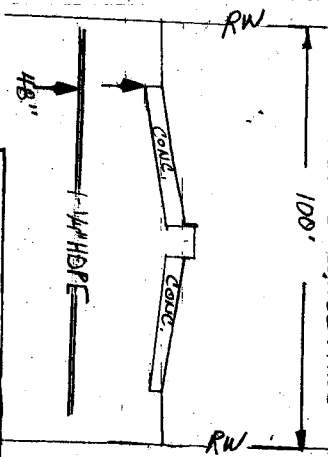
En-Touch Systems

PROJECT: MISC. WVC-0881

PLAT 3 OF 23

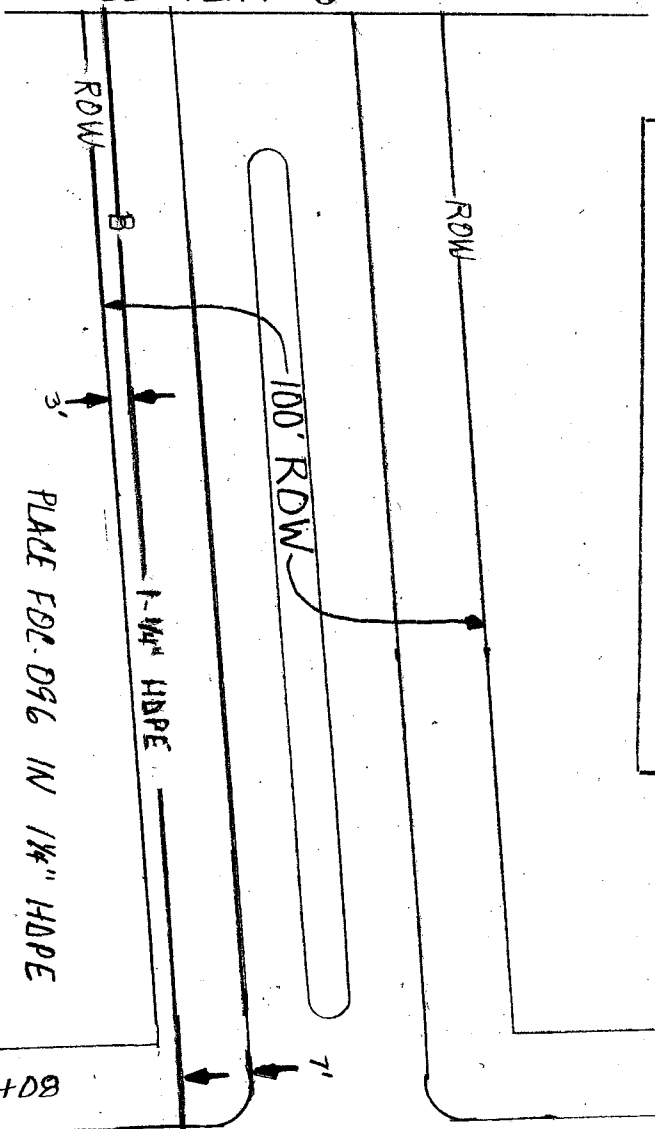
SCALE: NONE

TYPICAL BORE UNDER  
CONCRETE BOULEVARD



\* CAUTION BURIED UTILITIES

SEE PLAT 3



PLACE FOL D96 IN 1-1/4" HDPE

GASTON ROAD

36+08

37+31

\* PLACE HAND HOLE W/150' SLACK LOOP  
IN FOL D96

\* NOTE: DIRECTIONAL BORE  
ALL CABLE 48" COVER

CINCO RANCH ROAD

SEE PLAT 5

ROW

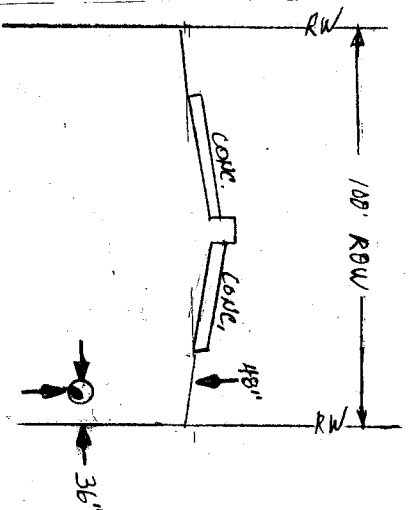
BOC

100' ROW

BOC

ROW

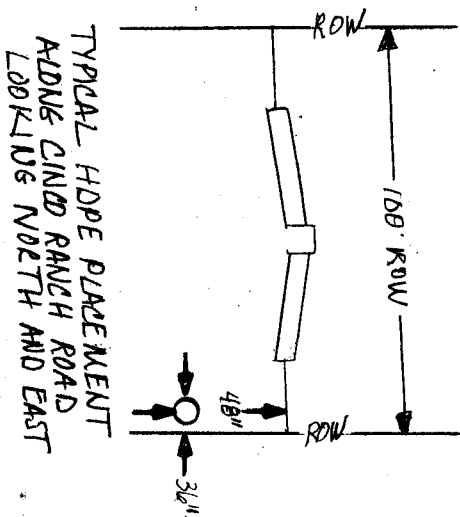
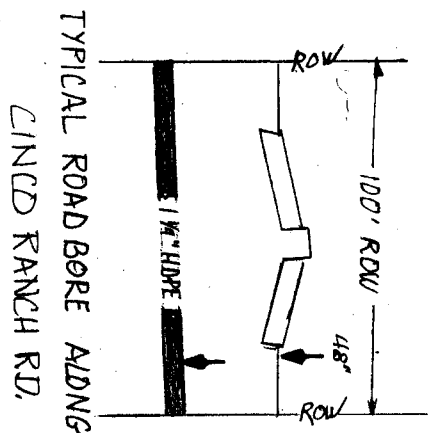
TYPICAL 1-1/4" HDPE PLACEMENT  
ALONG CINCO RANCH ROAD LOOKING  
NORTH AND EAST



KEY MAP FB 4842



En-Touch Systems  
PROJECT: MISC. WVC-0881  
PLAT 4 OF 23  
SCALE: NONE



KEY MAP FB 485W



\* CAUTION - BURIED UTILITIES

SEE PLAT 4

100' ROW

1 1/4" HDPE

PLACE FOC-096 IN 1 1/4" HDPE

60+12

RIVERGREEN PARK

61+30

CINCO RANCH ROAD

\* NOTE: DIRECTIONAL BORE ALL CABLE 48" COVER

SEE PLAT 6



En-Touch Systems

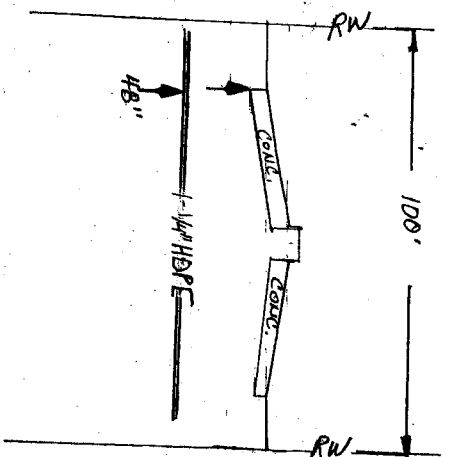
PROJECT: MISC. WVC-0881

PLAT 5 OF 23

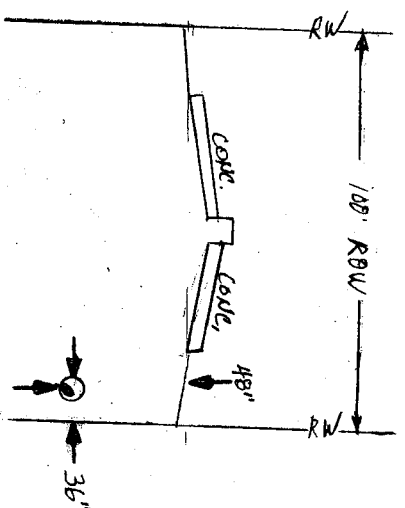
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\* CAUTION BURIED UTILITIES



TYPICAL BORE UNDER  
CONCRETE BOULEVARD

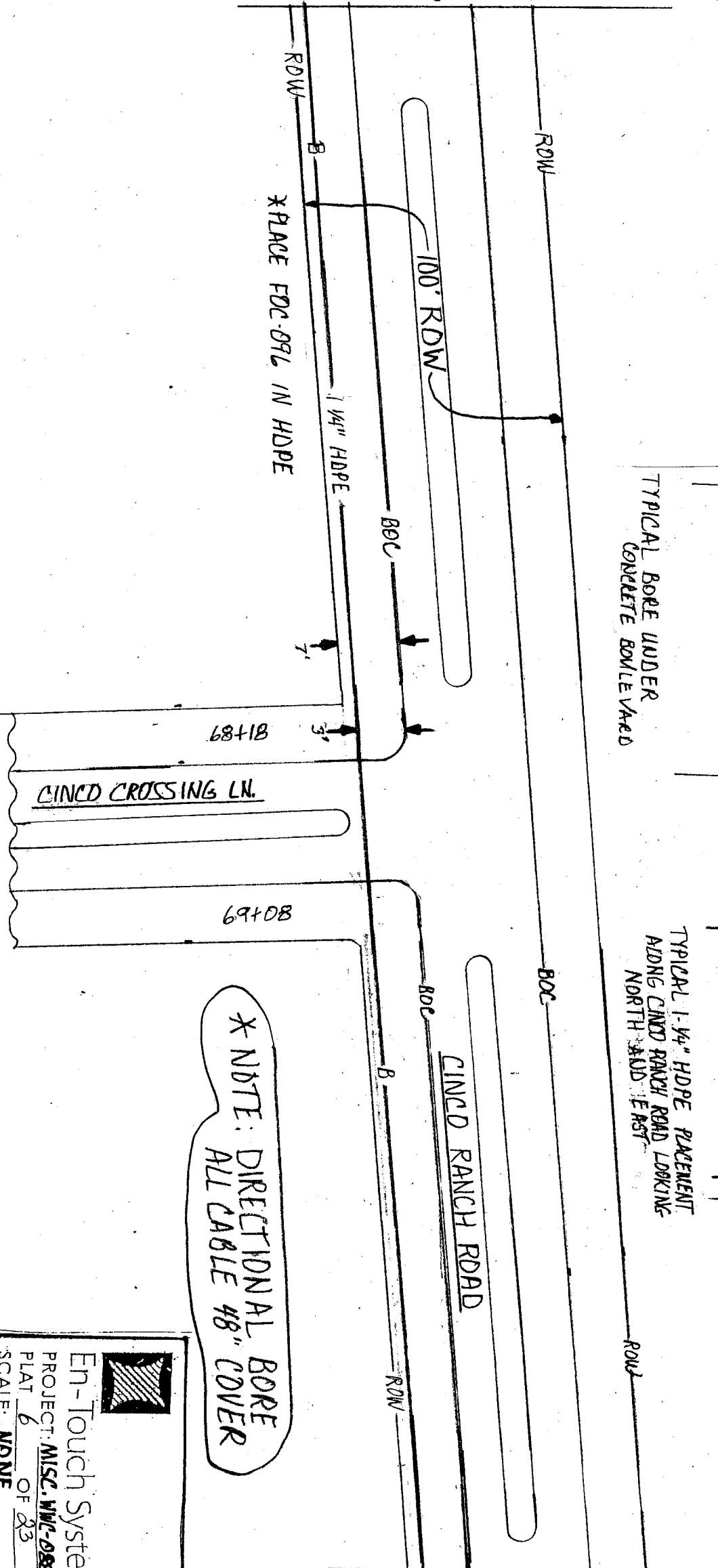


TYPICAL 1-1/4\"/>

KEY MAP FB 465W



SEE PLAT 5



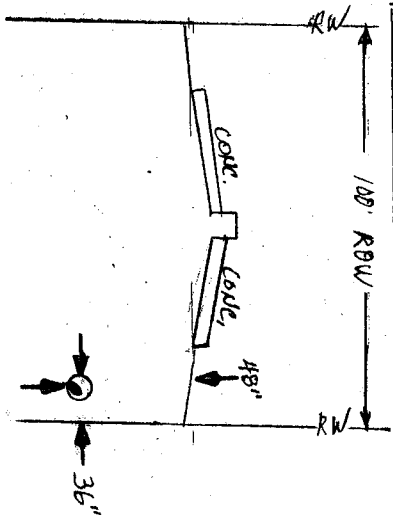
SEE PLAT 7

\* NOTE: DIRECTIONAL BORE  
ALL CABLE 48\"/>



En-Touch Systems  
PROJECT: MISC. WVC-0881  
PLAT 6 OF 23  
SCALE: NDNE

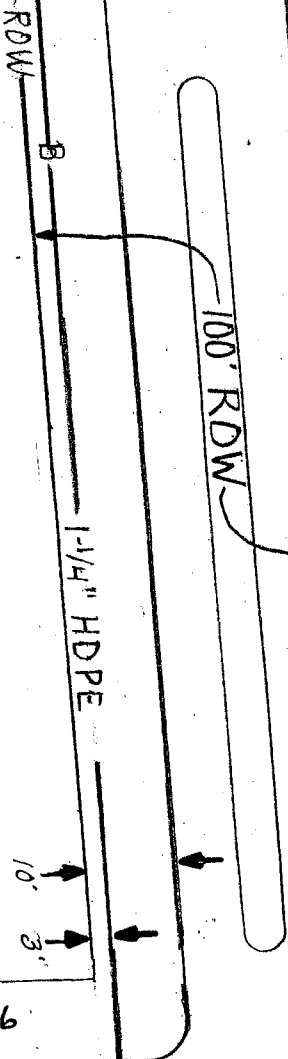
\* CAUTION BURIED UTILITIES



TYPICAL 1-1/4" HDPE PLACEMENT  
ALONG CLAYD RANCH ROAD LOOKING  
NORTH AND EAST

SEE PLAT 6

\* PLACE FDC-D96 IN HDPE



81+36

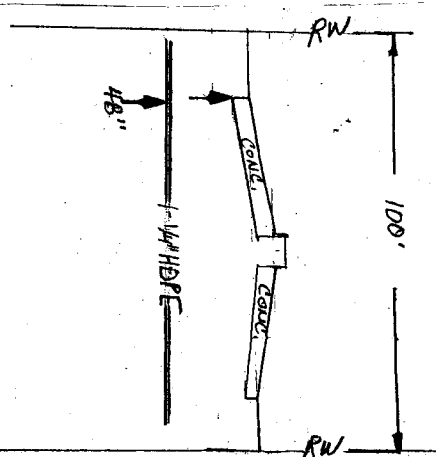
HERITAGE GRAND LN.

82+61

\* NOTE: DIRECTIONAL BORE  
ALL CABLE 48" COVER

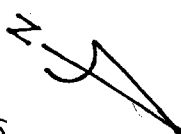
CINCD RANCH ROAD

SEE PLAT 8



TYPICAL BORE UNDER  
CONCRETE BOULEVARD

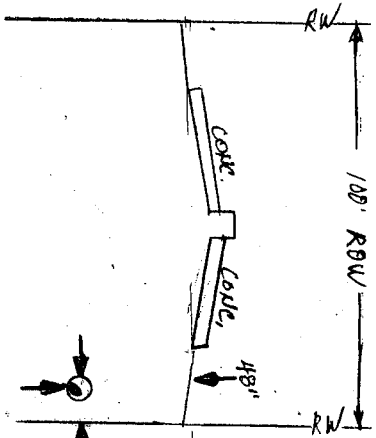
KEY MAP FB 4854



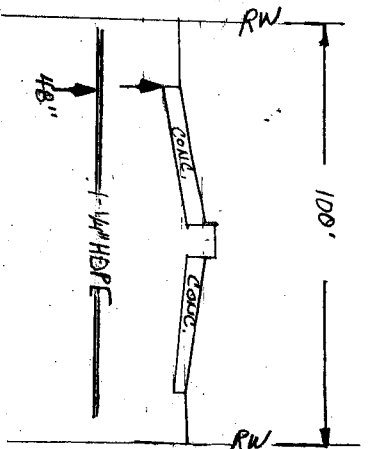
En-Touch Systems  
PROJECT: MISC. W/C-0881  
PLAT 7 OF 23  
SCALE: NONE

\* CAUTION BURIED UTILITIES

TYPICAL 1-1/4" HDPE PLACEMENT  
ALONG CINCO RANCH ROAD LOOKING  
NORTH AND EAST



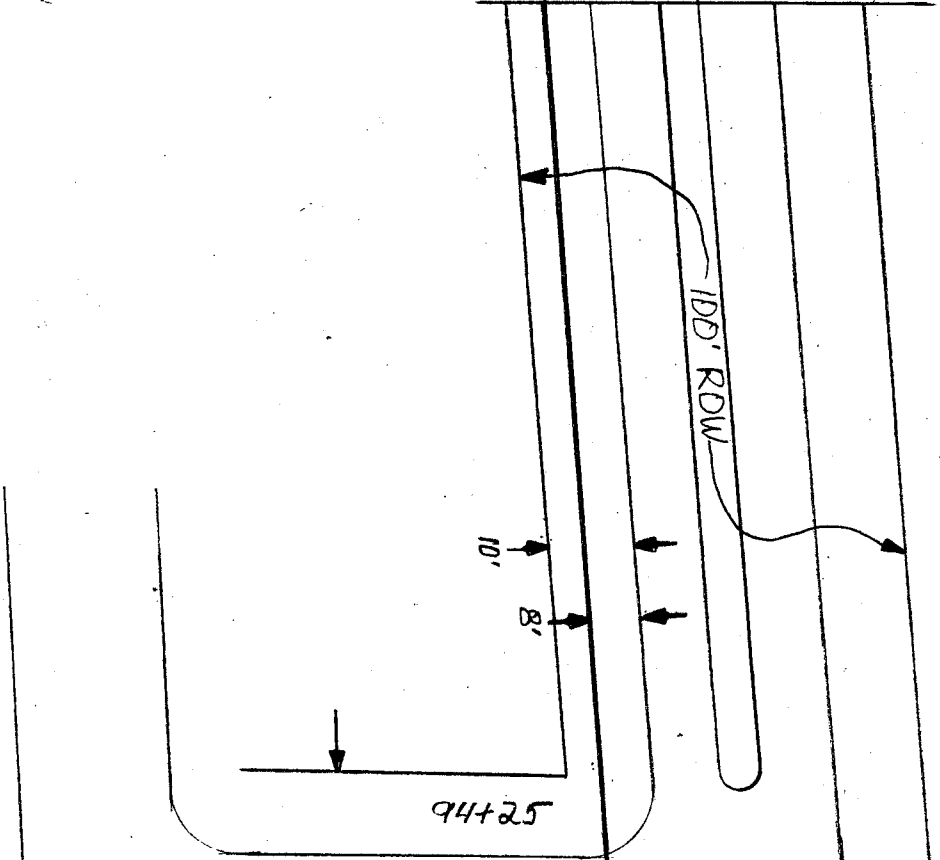
TYPICAL BORE UNDER  
CONCRETE BOULEVARD



KEY MAP FB 4855-4

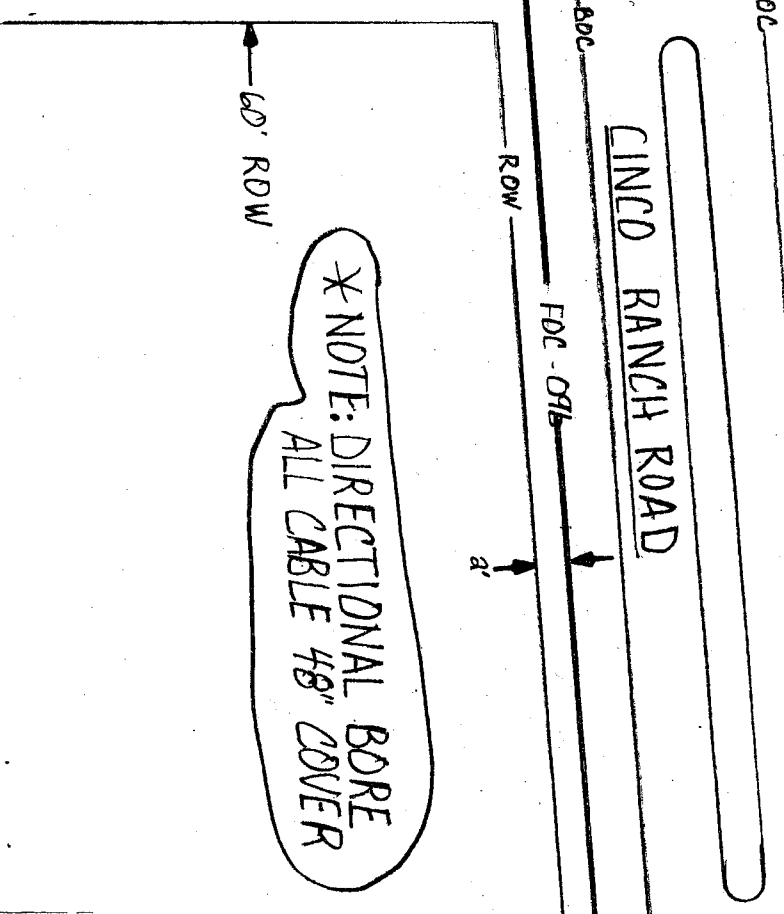


SEE PLAT 7



CINCO MANDR LN.

94+85



CINCO RANCH ROAD

\* NOTE: DIRECTIONAL BORE  
ALL CABLE 48" COVER

SEWER  
PLANT C/L 97+43  
DRIVE

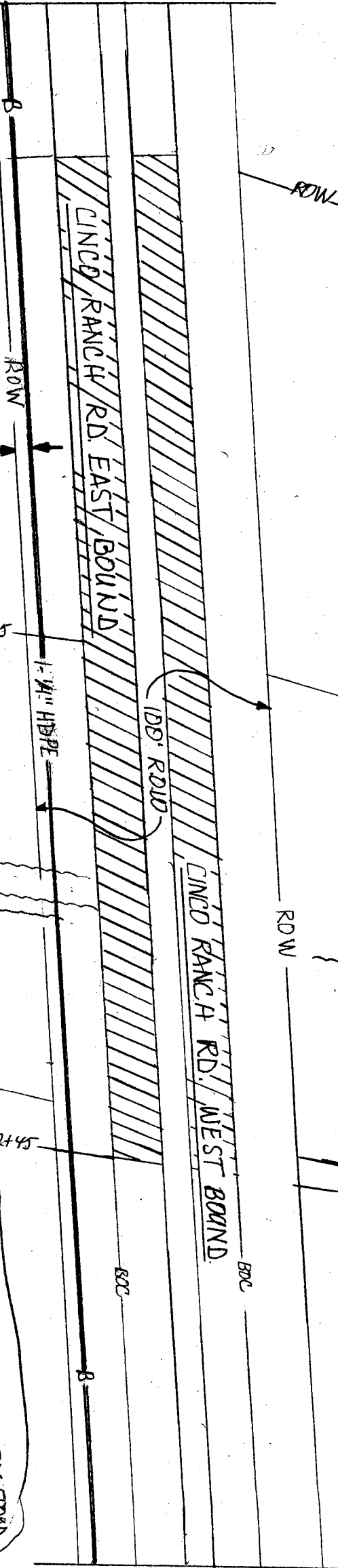
SEE PLAT 9



En-Touch Systems  
PROJECT: MISC. W/C-0881  
PLAT 8 OF 23  
SCALE: NONE

SEE PLAT 8

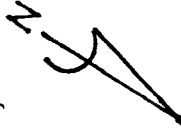
WEST ROW FOR BUFFALO BAYOU  
ROW 98+73



\* CAUTION BURIED UTILITIES

\* SEE F.F. BEND COUNTY FLOOD-CONTROL PERMIT FOR CROSSING INFORMATION

KEY MAP FB 4855



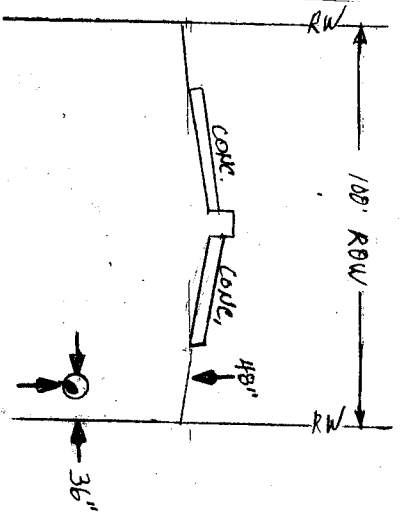
En-Touch Systems

PROJECT: MISC. W/L-0881

PLAT 9 OF 33

SCALE: NONE

\*CAUTION - BURIED UTILITIES



KEY MAP FB 4853

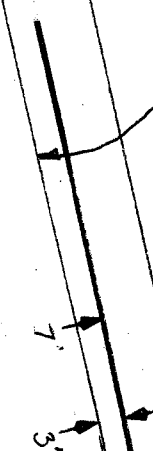


SEE PLAT 9

\*NOTE: DIRECTIONAL BORE ALL CABLE - 48" COVER

CINCO RANCHO ROAD - EAST

X PLACE FDC-096 IN HDPE



CINCO RANCHO ROAD - WEST

SEE PLAT 11

PDND

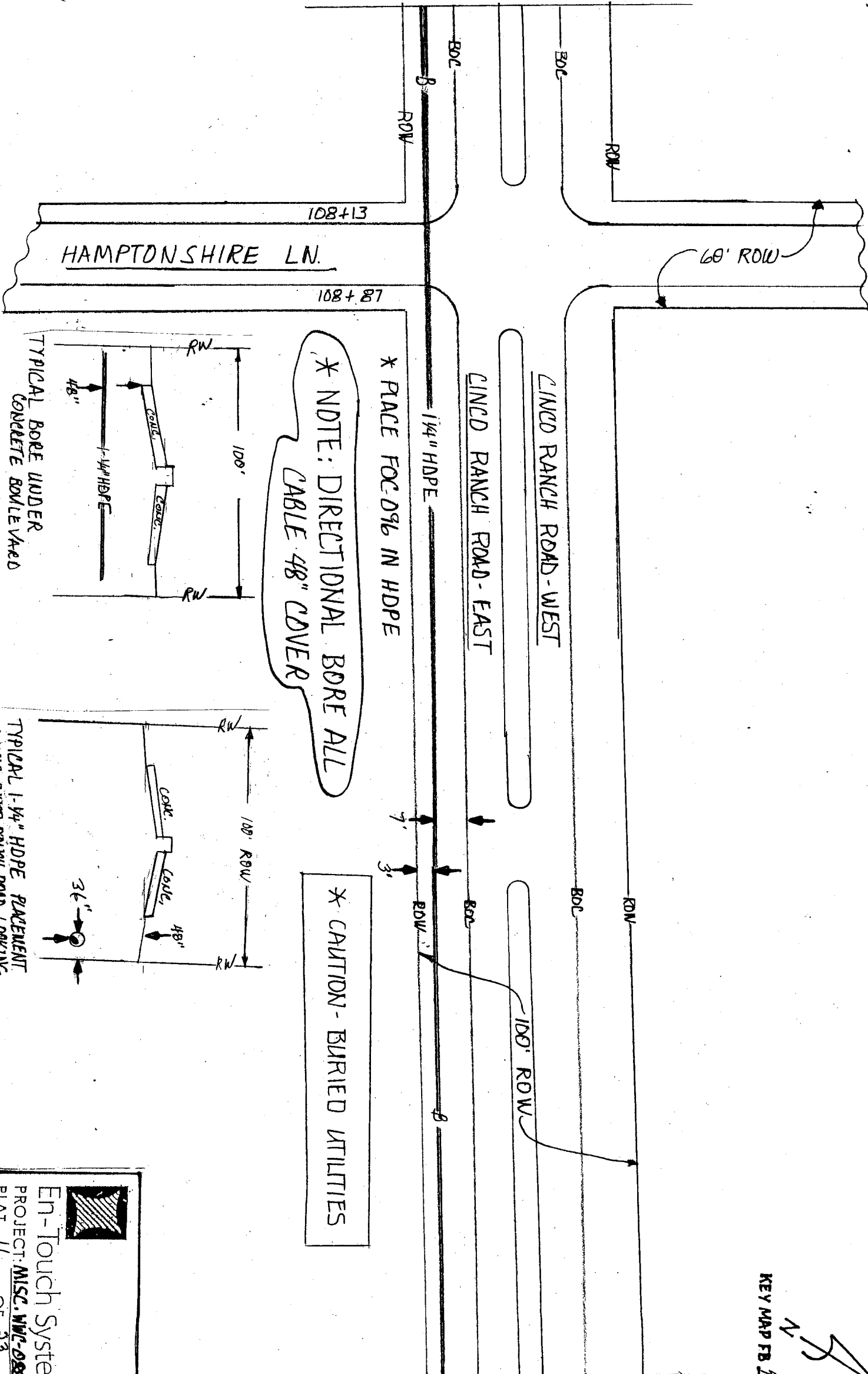
106+19



En-Touch Systems  
PROJECT: MISC. W/C-0881  
PLAT 10 OF 23  
SCALE: NONE



SEE PLAT 10

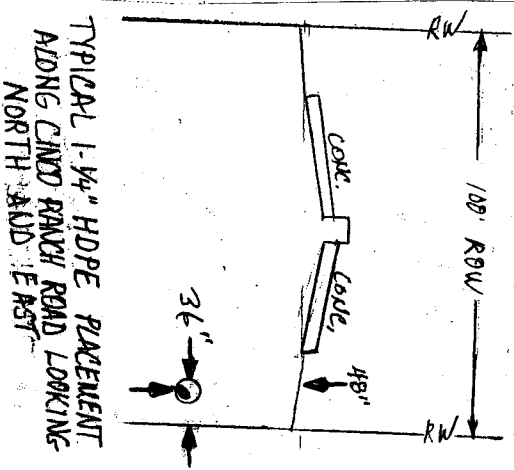
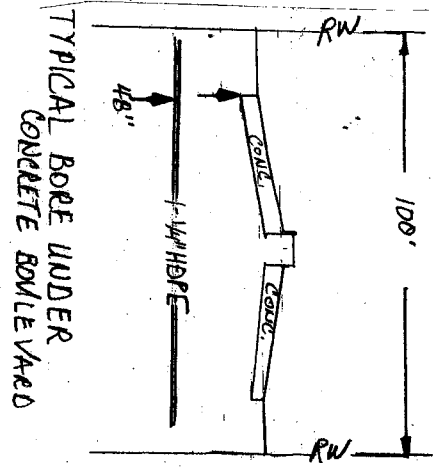


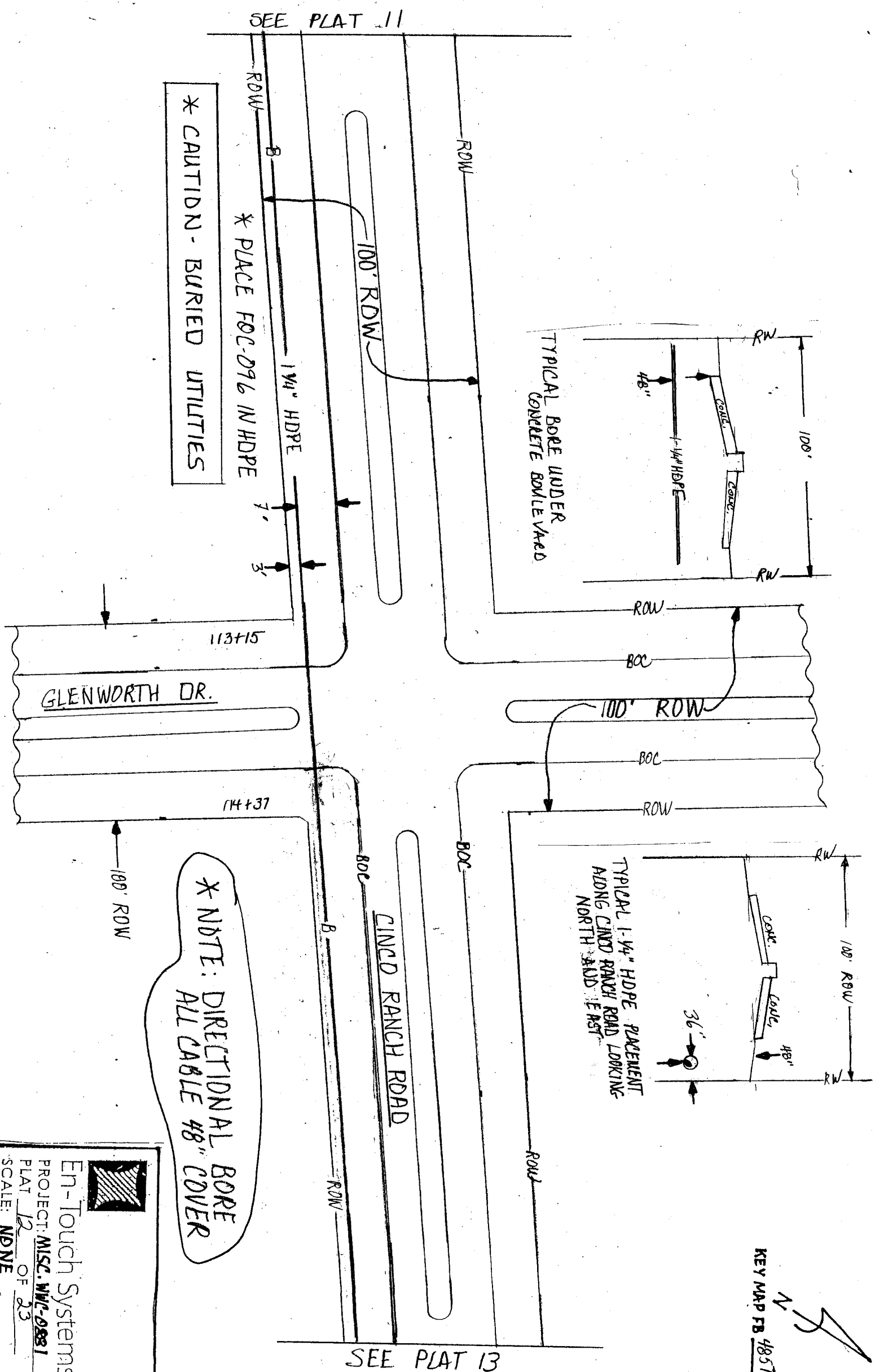
SEE PLAT 12

\* NOTE: DIRECTIONAL BORE ALL  
CABLE 48" COVER

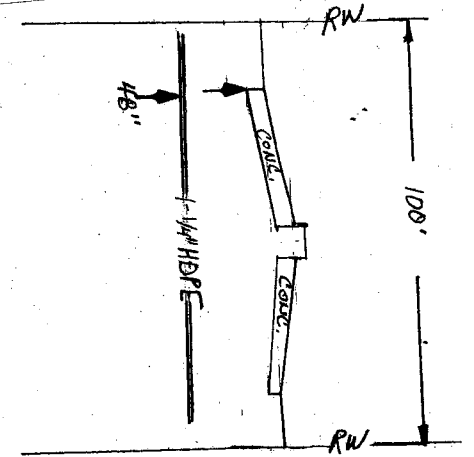
\* CAUTION - BURIED UTILITIES

\* PLACE FOC 096 IN HDPE

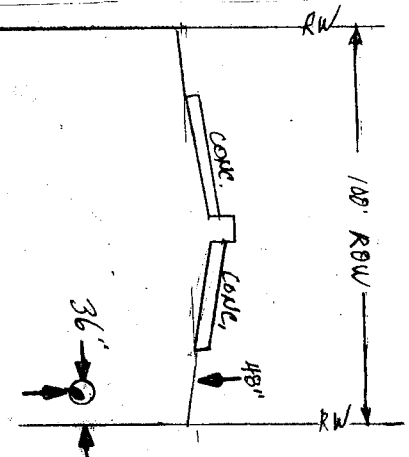




TYPICAL BORE UNDER  
CONCRETE BOULEVARD

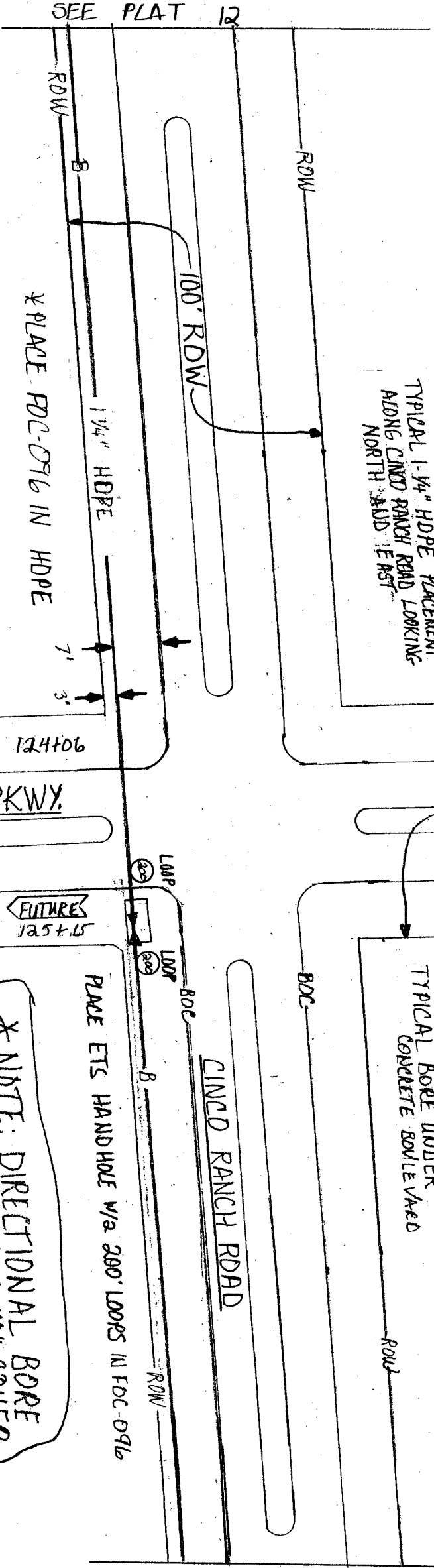
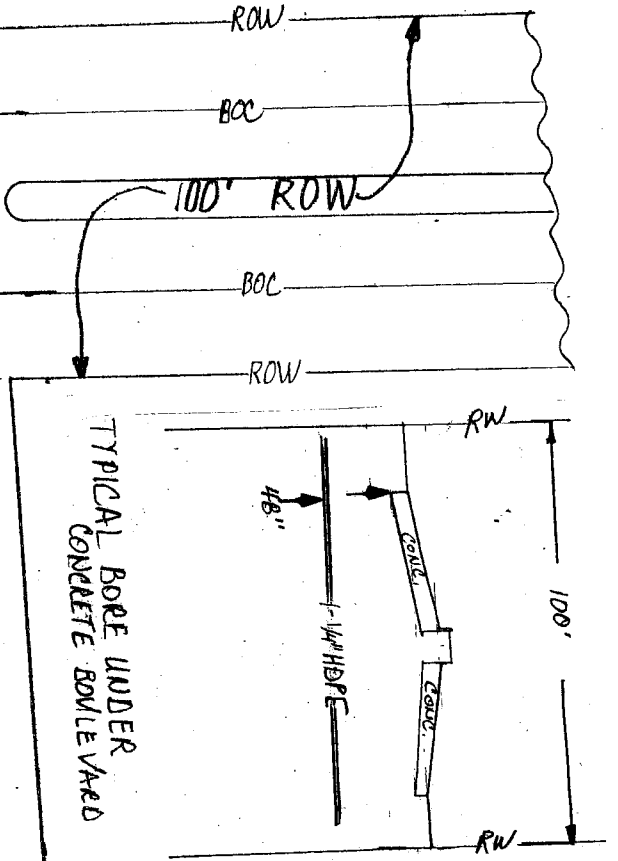
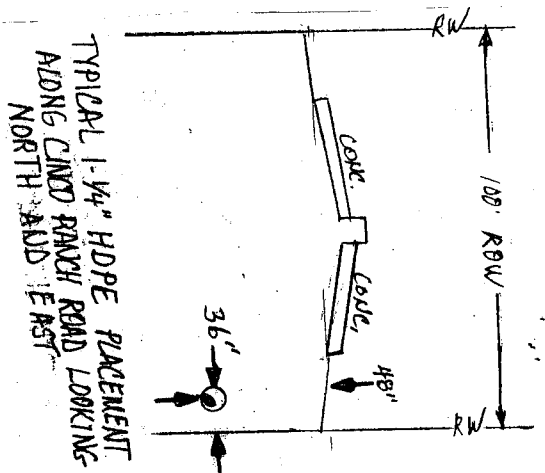


TYPICAL 1-1/4\"/>



KEY MAP FB 485T  
N

KEY MAP FB 485 T



\* CAUTION - BURIED UTILITIES

\* PLACE FDC-D96 IN HDPE

124+06

WESTHEIMER PKWY.

FUTURE  
125+15

PLACE ETS HANDHOLE VIA 200' LOOPS IN FDC-D96

\* NOTE: DIRECTIONAL BORE  
ALL CABLE 48" COVER



En-Touch Systems

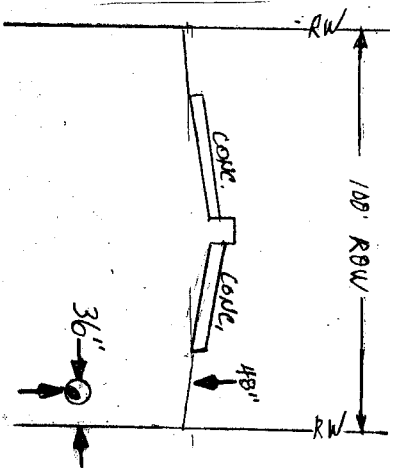
PROJECT: MISC. W/C-0881

PLAT 13 OF 23

SCALE: NONE



\* CAUTION - BURIED UTILITIES

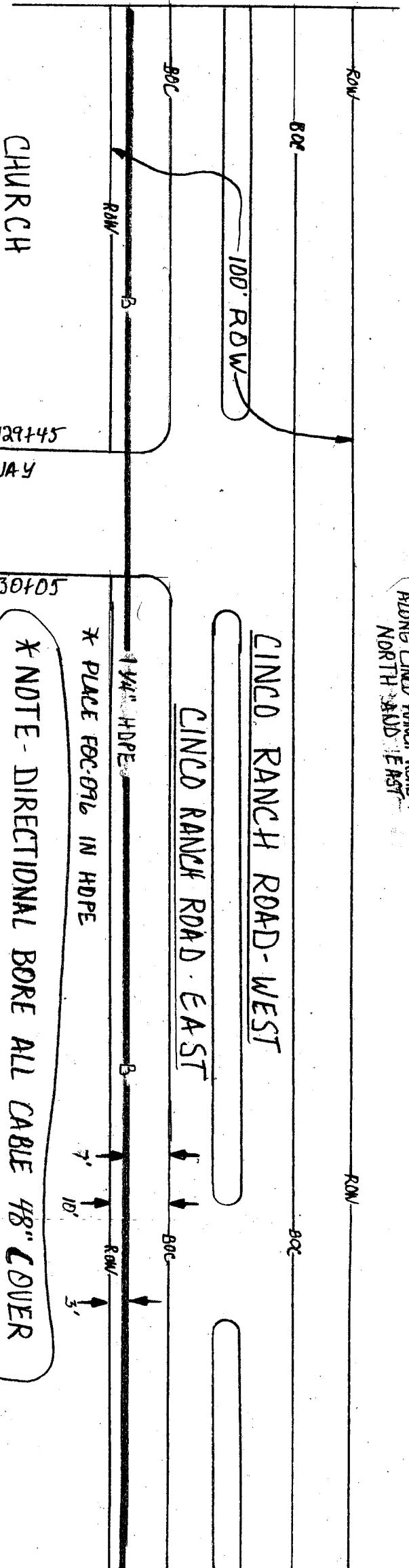


TYPICAL 1-1/4" HDPE PLACEMENT  
ALONG CINCO RANCH ROAD LOOKING  
NORTH AND EAST

KEY MAP FB 485T



SEE PLAT-13

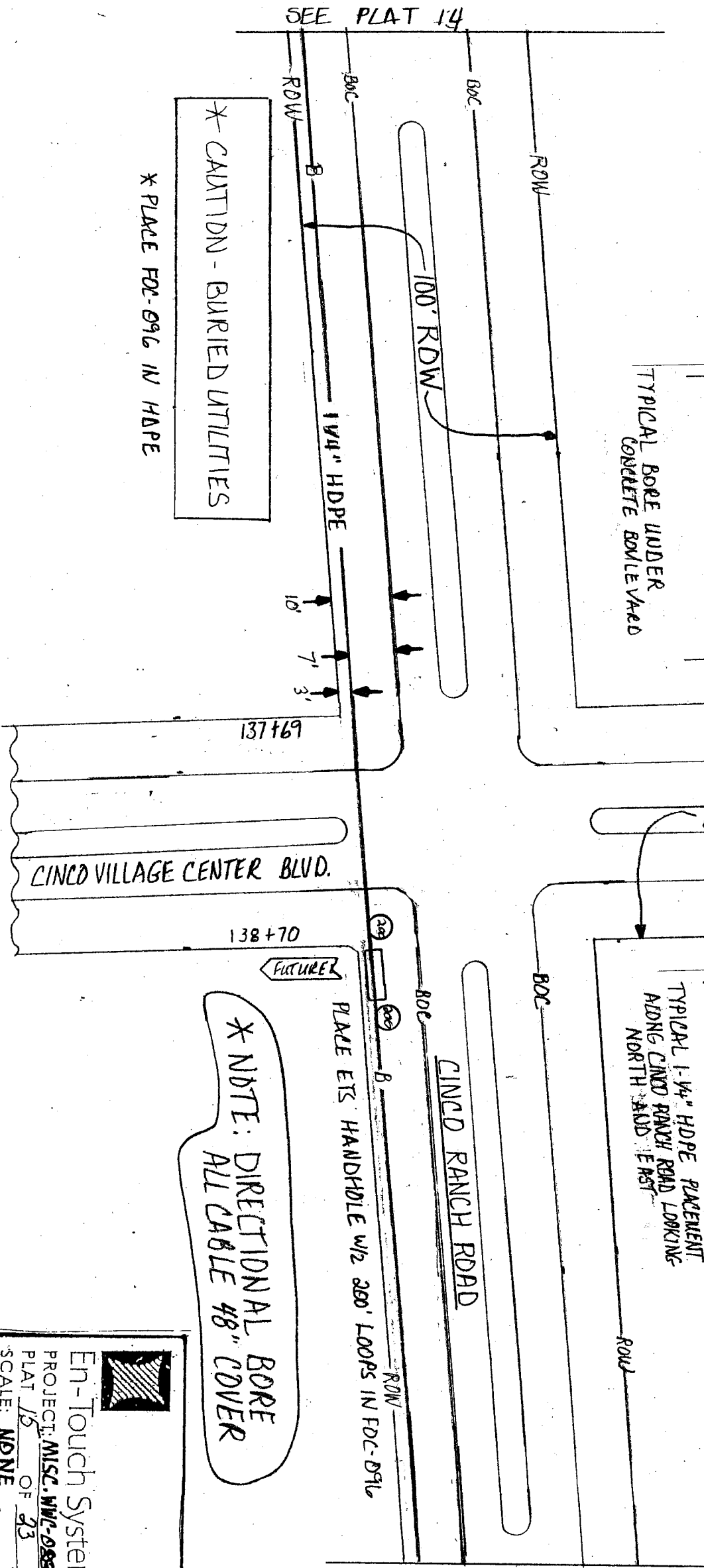
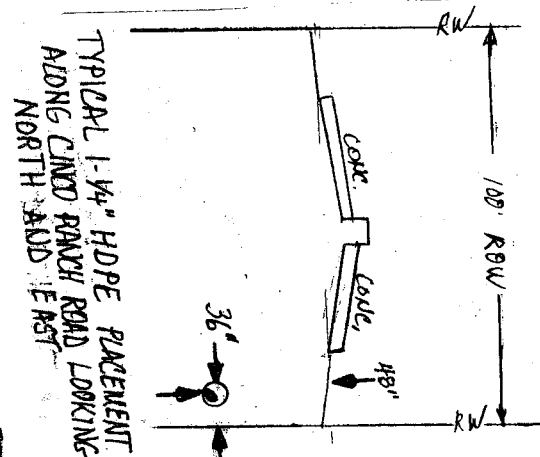
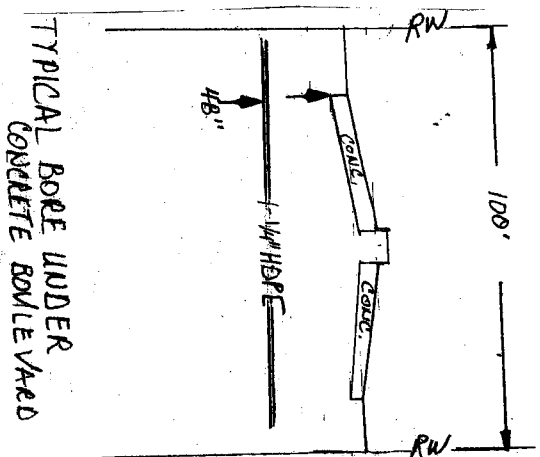


SEE PLAT 15

\* NOTE - DIRECTIONAL BORE ALL CABLE 48" COVER

\* PLACE FOC-076 IN HDPE

KEY MAP FB 485T



\* CAUTION - BURIED UTILITIES

\* PLACE FDC-096 IN HDPE

\* NOTE: DIRECTIONAL BORE  
ALL CABLE 48" COVER



En-Touch Systems

PROJECT: MISC. W/C-0881

PLAT 15 OF 23

SCALE: NONE

\* CAUTION - BURIED UTILITIES

KEY MAP FB 4851



SEE PLAT 15

141+64

CONCRETE DRIVEWAY

45'

142+18

ROW

BOE

CINCO RANCH ROAD - WEST

CINCO RANCH ROAD - EAST

100' ROW

\* DIRECTIONAL BORE ALL CABLE 48" COVER

3'

145+26

ROW

BOC

COMERCIAL CENTER BLVD

CINCO RANCH SCHOOL BLVD

146+40

PLACE ETS HANDHOLE  
W/3-200' LOODPS

ROW

SEE PLAT 18

ROW

100' ROW



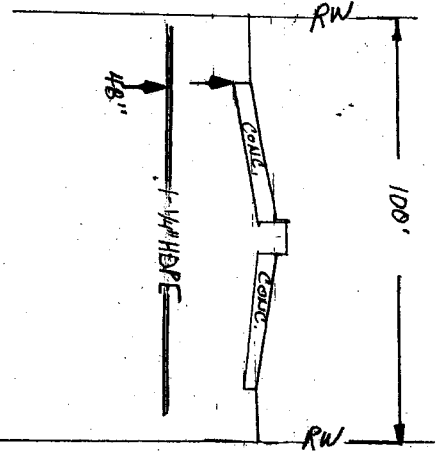
En-Touch Systems

PROJECT MISC. M/C-0881

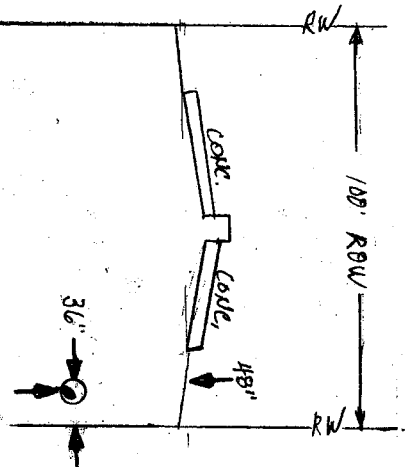
PLAT 16 OF 23

SCALE: NONE

TYPICAL BORE UNDER  
CONCRETE BOULEVARD



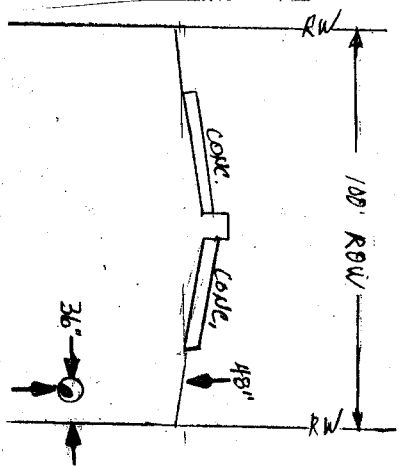
TYPICAL 1-1/4" HDPE PLACEMENT  
ALONG CINCO RANCH ROAD LOOKING  
NORTH AND EAST



SEE PLAT 17

\* CAUTION - BURIED UTILITIES

LA CENTERA SHOPPING CENTER



TYPICAL 1-1/4" HDPE PLACEMENT  
ALONG CIND RANCH ROAD LOOKING  
NORTH AND EAST

147+97

148+53

149+72

150+52

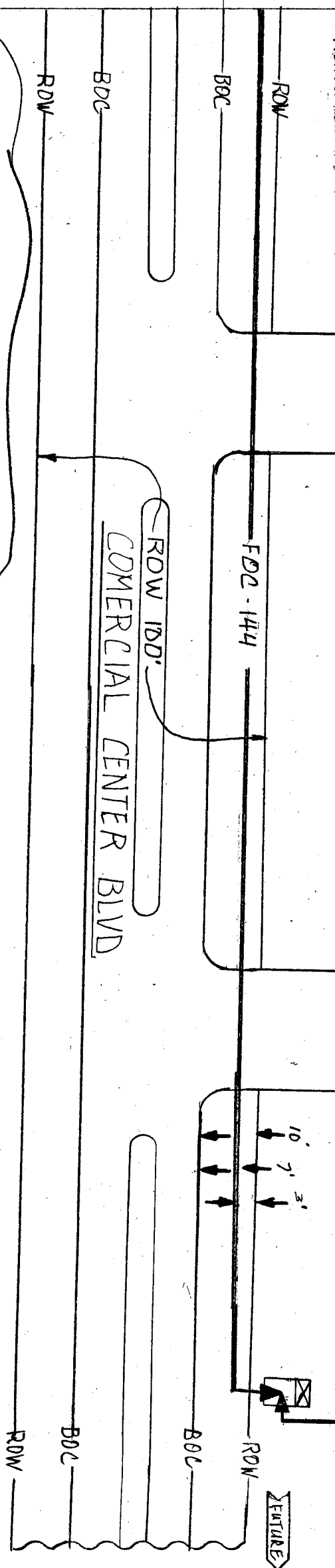
151+27

FOC-048  
EXIST-350'  
3" SOL

See Plat 16  
A

KEY MAP FB 585T

SEE PLAT 16



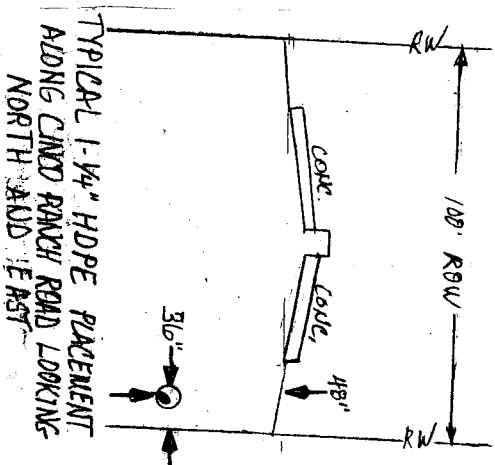
\* NOTE: DIRECTIONAL BORE ALL CABLE  
WITH 48" COVER



En-Touch Systems  
PROJECT: MISC. W/C-0881  
PLAT 17 OF 23  
SCALE: NONE

\* CAUTION: BURIED UTILITIES

CINCO RANCH SCHOOLS



KEY MAP FB 4851

SEE PLAT

\* NOTE: DIRECTIONAL BORE ALL CABLE WITH 48" COVER

PARKING LOT - LA CENTERA

CINCO RANCH ROAD - WEST BOUND  
CINCO RANCH ROAD - EAST BOUND

VACANT

STARBUCKS

MISSION BURIED

PARKING LOT  
LA CENTERA

SEE PLAT 19



En-Touch Systems

PROJECT: MISC. W/C-0881

PLAT 18 OF 23

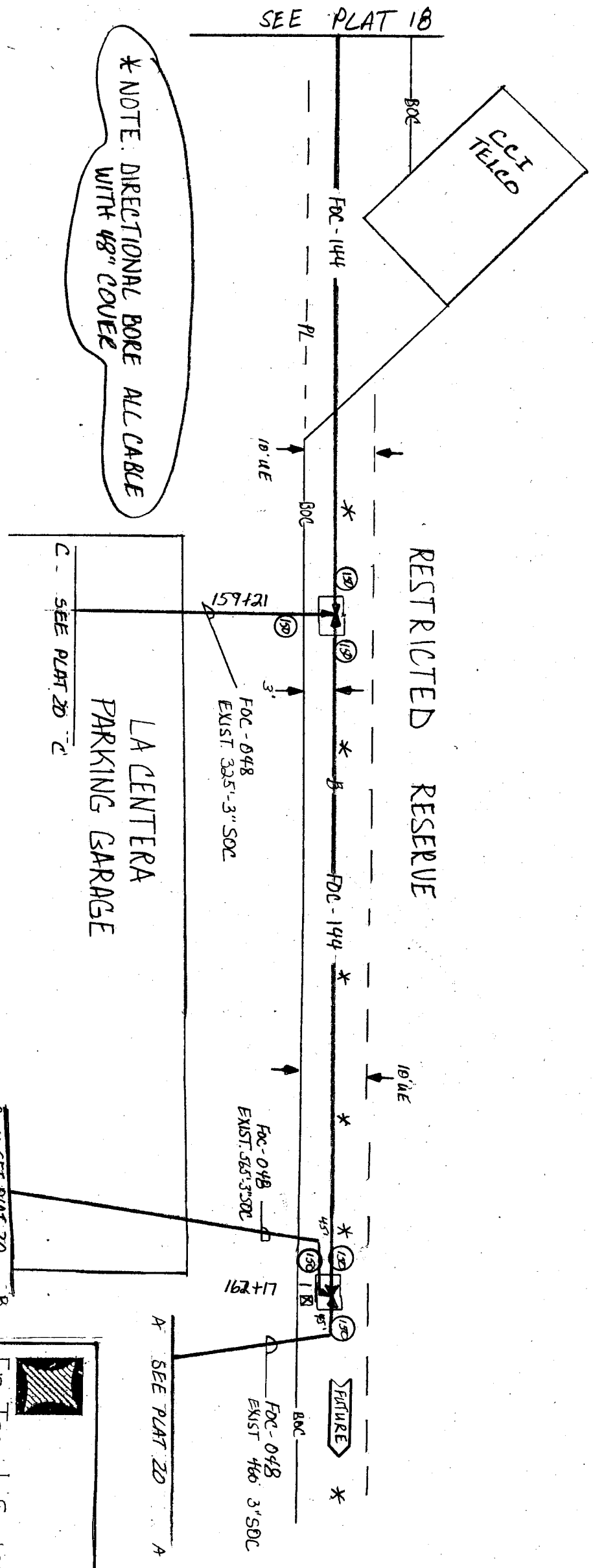
SCALE: NONE

SH 99

2

KEY MAP FB 4851

\* CAUTION BURIED UTILITIES



En-Touch Systems  
PROJECT: MISC. WWC-0881  
PLAT 19 OF 23  
SCALE: NDNE