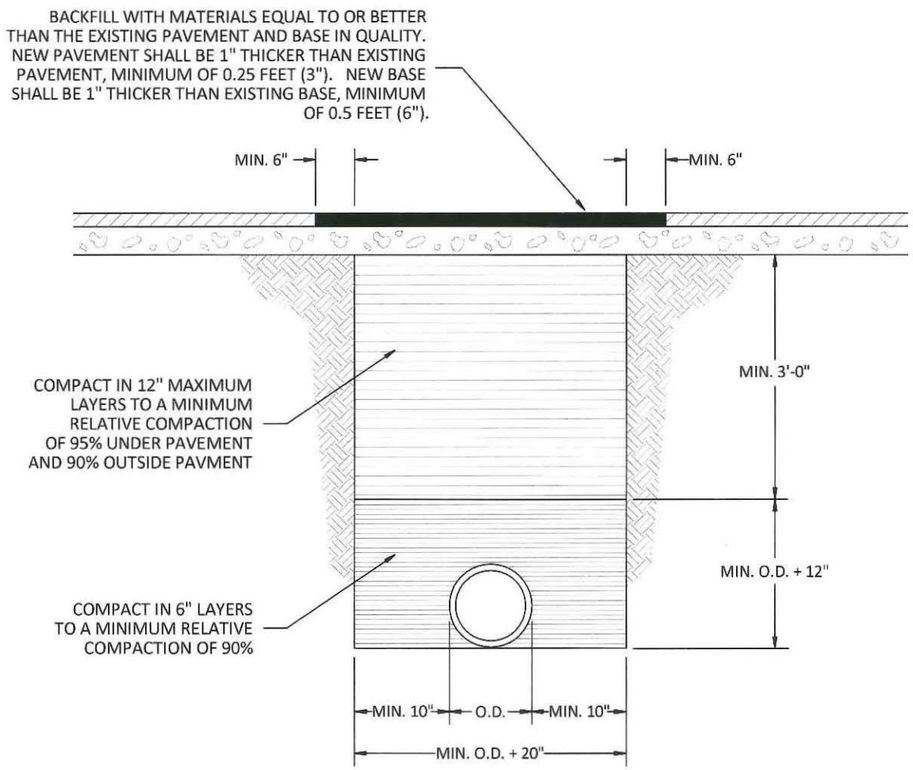
PS- 1102769 (3)

TYPICAL TRENCH BACKFILL - FLEXIBLE CONDUIT

(EXCERPTED FROM COUNTY OF SAN JOAQUIN DRAWING NO. R-29)



NOTES:

1. RELATIVE COMPACTION OF MATERIALS SHALL BE TESTED IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION TESTING MANUALS, TEST METHOD CALIFORNIA NO. 216 OR CALIFORNIA NO. 231.
2. ALL EXISTING PAVEMENT SHALL BE NEATLY CUT TO LINE PRIOR TO TRENCH EXCAVATION.
3. JETTING OR PONDING WILL BE PERMITTED WITHIN THE STREET RIGHT OF WAY WITH A 3-YEAR BOND.
4. WHEN SHOWN BY SOIL COMPOSITION AND COMPACTABILITY, NINETY-PERCENT (90%) COMPACTION MAY BE USED, WHEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
5. SPECIAL BEDDING REQUIREMENTS MAY BE SHOWN ON THE PLANS OR SPECIFIED IN SPECIAL PROVISIONS.
6. SHOULDERS SHALL BE AS SHOWN ON THE PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS BUT IN NO CASE SHALL THE SHOULDER BE LESS THAN THREE FEET (3') WIDE AS MEASURED FROM THE EDGE OF PAVEMENT.
7. THE WORK NEAR EDGE OF PAVEMENT SHALL BE SHOULDER BACKED WITH CLASS II AGGREGATE BASE A MINIMUM OF 6' FROM EDGE OF PAVEMENT.
8. IN DITCH AREAS, THE DRAINAGE PATTERN SHALL BE RESTORED DAILY.

1. THE RHINO HYBRID 3-RAIL SPECIALLY DESIGNED REINFORCING FIBERS ARE BLENDED WITH UV STABLE PLASTIC TO CREATE A FLAT POST WITH THE BRIGHT COLOR OF PLASTIC AND THE IMPACT RESISTANCE OF THE COMBINED FIBERGLASS FIBERGLASS AND PLASTIC. IT'S DESIGN ALLOWS THE POST TO BEND OVER WHEN HIT, THEN SNAP BACK INTO IT'S NORMAL UPRIGHT POSITION.

2. CONTRACTOR IS RESPONSIBLE FOR POSTING OF THESE RHINO FIBER 3-RAIL WARNING SIGNS, PER MANUFACTURER'S INSTALLATION STANDARDS, EVERY ±2640 FEET (1/2-MILE) IN RURAL AREAS AND IN THE URBAN AREAS EVERY ±1320 FEET (1/4-MILE), AND AT EVERY HANDHOLE AND ANY CONDUIT SPLICE LOCATED BETWEEN HANDHOLES (EXCEPT IN SIDEWALKS OR OTHER IMPRACTICAL URBAN AREAS), TO ENSURE THE FIBER AND STRUCTURE CAN BE LOCATED AND IS NOT DAMAGED IN THE FUTURE.

3. WARNING SIGNS AND DECALS SHALL BE SUPPLIED BY OWNER. CONTRACTOR SHALL NOTIFY OWNER OF ALL MID-PAN CONDUIT SPLICES AS THAT QUANTITY IS NOT ACCOUNTED FOR IN THE BID UNIT QUANTITY SUMMARY.

WARNING SIGN - RHINO 3 RAIL FIBER OPTIC CABLE MARKER

NTS

CVIN PERMIT: SM-B03

REV	DATE	DESCRIPTION	BY	CKD	APPV'D

PLANS FOR THE INSTALLATION OF UNDERGROUND FIBER OPTIC FACILITIES

Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157

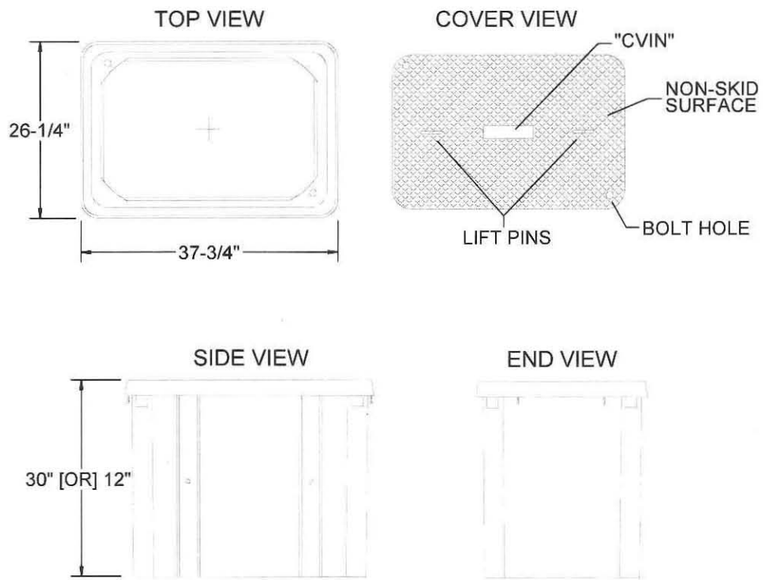
CVIN CENTRAL VALLEY INDEPENDENT NETWORK
855 M Street, Suite 1120, Fresno, CA 93721

DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	NTS	16 STOCKTON-MILTON	03	50

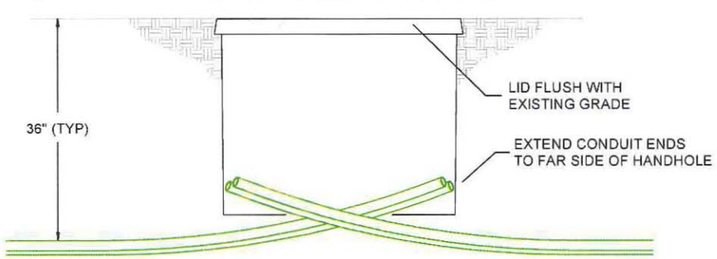
PS-1102769 (4)

CVIN HANDHOLE DETAIL

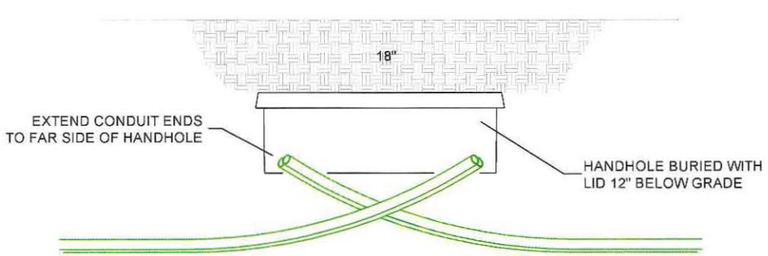
MARTIN ENTERPRISES POLYMER
CONCRETE BOX 243630 OR EQUIVALENT
(W/ TRAFFIC RATED LID WHEN SPECIFIED)

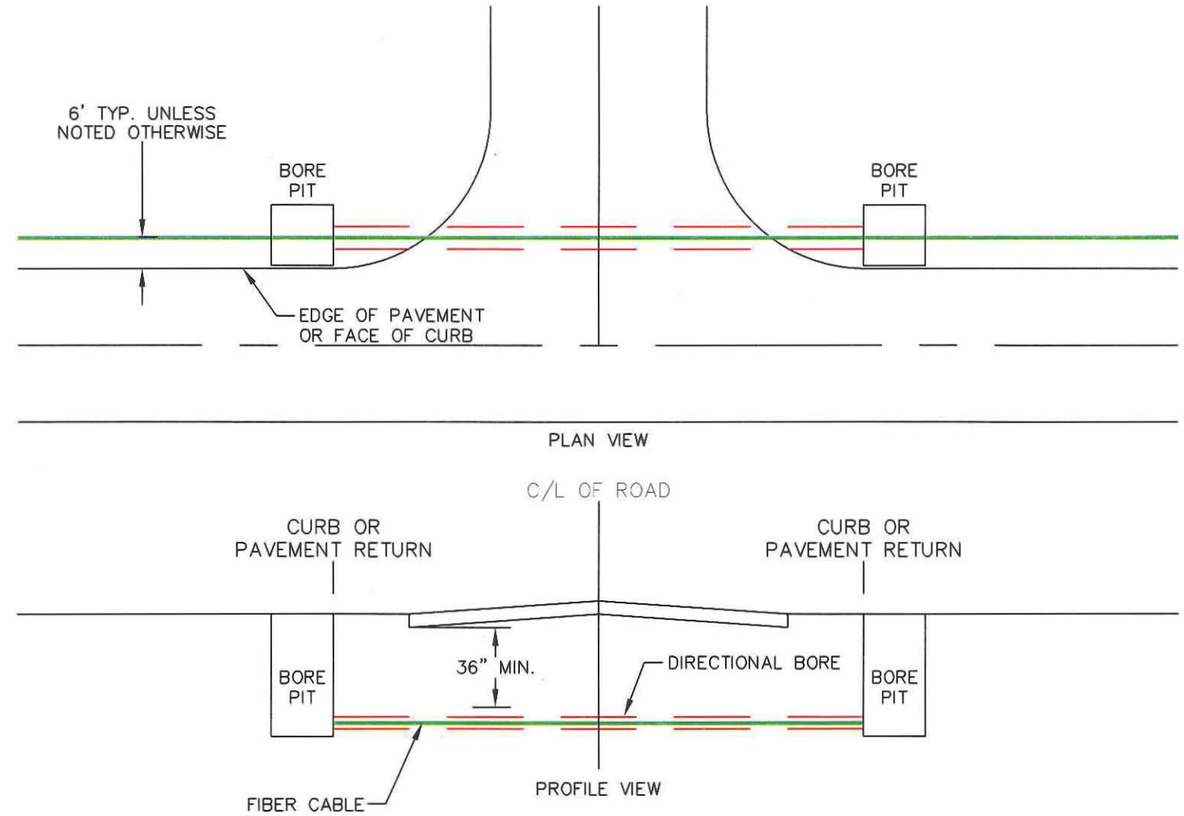


30" HANDHOLE INSTALLATION



12" HANDHOLE INSTALLATION





TYPICAL BORE DETAIL AT STREET INTERSECTION

NOT TO SCALE

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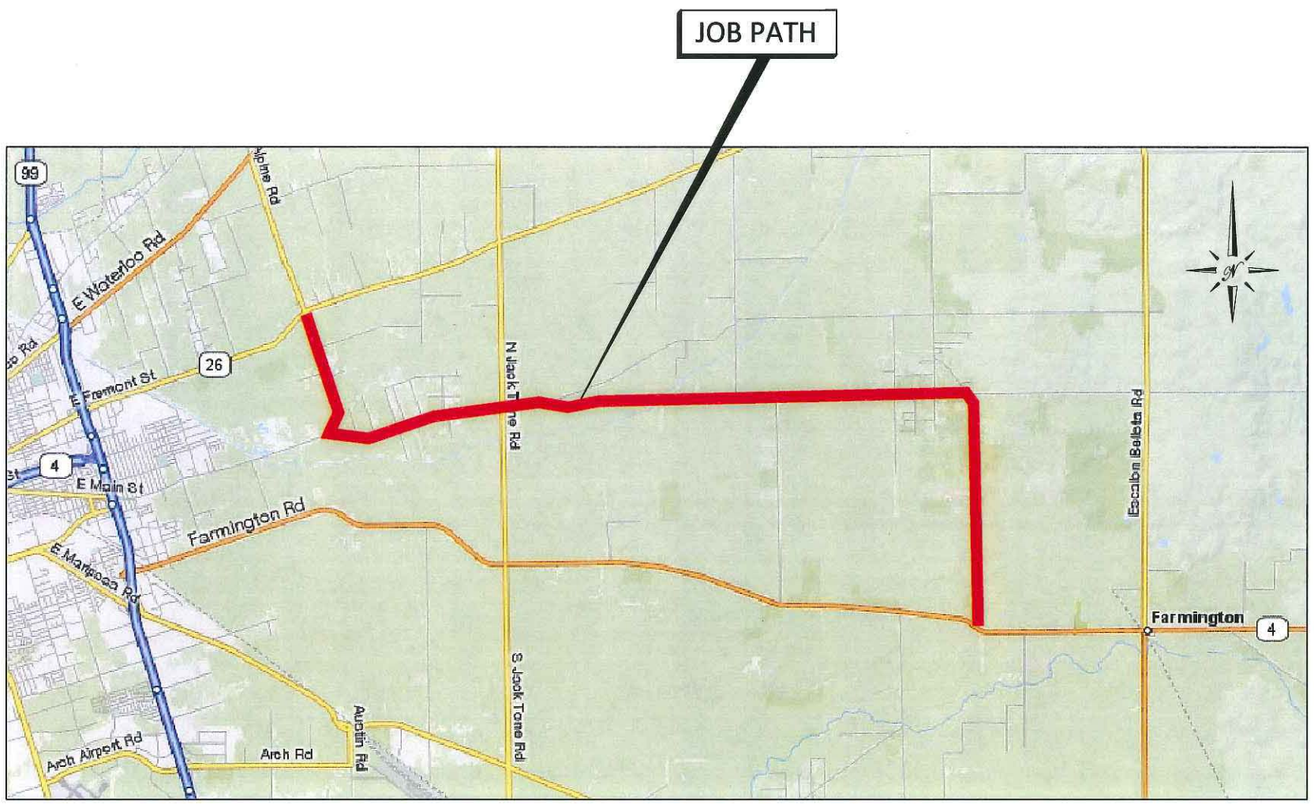
PS-1102769 (1)

SEGMENT 16 - SAN JOAQUIN COUNTY PERMIT PLANSET

SHEETS 01 THROUGH 50



VICINITY MAP

NTS

GENERAL NOTES:

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE PERMIT AGENCY'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THAT AGENCY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT:

1. THE LOCATIONS OF EXISTING UTILITIES, RIGHTS-OF-WAY AND EASEMENTS SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS AND ARE APPROXIMATE IN NATURE. WHERE CONFLICTS EXIST WITHIN THE RECORDS OR BETWEEN THE RECORDS AND FIELD OBSERVATIONS, THE ENGINEER OF WORK ASSUMES NO RESPONSIBILITY FOR THE CORRECTNESS OF THAT INFORMATION AS DEPICTED.

2. PRIOR TO COMMENCING IMPROVEMENT OPERATIONS, THE CONTRACTOR SHALL VERIFY THE LOCATION, BOTH HORIZONTALLY AND VERTICALLY, OF ALL EXISTING FACILITIES AFFECTED BY THE PROPOSED WORK, WHETHER OR NOT THOSE FACILITIES ARE DEPICTED CORRECTLY ON THESE PLANS.

3. IF EXISTING FACILITIES VARY SIGNIFICANTLY IN LOCATION OR DEPTH FROM THESE PLANS, THE ENGINEER OF WORK SHOULD BE NOTIFIED TO MAKE ANY DESIGN CHANGES REQUIRED.

4. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.

5. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER OF WORK HARMLESS.

6. THE BORE LOCATIONS INDICATED ON THE STAKING SHEETS ARE THE ENGINEER'S BEST ESTIMATE OF LOCATION AND LENGTH AS REQUIRED TO MEET JURISDICTIONAL REQUIREMENTS AND/OR TO AVOID SURFACE OR OTHER DAMAGE THAT MAY BE ASSOCIATED WITH TRADITIONAL TRENCHING OR PLOWING METHODS. INSPECTOR & CONTRACTOR SHALL REVIEW ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION AND VERIFY THAT THE INDICATED BORE UNITS ARE ACCURATELY IDENTIFIED, APPROPRIATELY LOCATED AND ACTUALLY REQUIRED (NOTIFY ENGINEER AND /OR OWNER OF ANY DISCREPANCIES). IF A BORE UNIT CAN BE ELIMINATED, WITH THE APPROVAL OF THE PERMITTING AUTHORITY AND WITH AN ASSOCIATED NET COST SAVINGS, THEN THE BORE UNIT SHALL BE ELIMINATED. ALSO, NOTIFY ENGINEER AND /OR OWNER OF ADDITIONAL BORES THAT ARE REQUIRED, BUT ARE NOT INDICATED ON THE STAKING SHEETS.

7. THE HANDHOLE/VAULT LOCATIONS INDICATED ON THE STAKING SHEETS ARE THE ENGINEER'S BEST ESTIMATE OF LOCATION FOR PLACING THE UNIT AS REQUIRED TO MEET CVIN, JURISDICTIONAL AND/OR SAFETY REQUIREMENTS AND TO PROVIDE AN APPROPRIATE LOCATION THAT WILL ALLOW FOR PARKING, EASE OF ACCESS AND ADEQUATE SPACE TO PERFORM INSTALLATION AND MAINTENANCE WORK. IN HIGHWAY LOCATIONS WHERE THE CONDUIT RUNNING LINE IS INDICATED TO BE IN THE ROAD SHOULDER NEAR THE EDGE OF ASPHALT, THE HANDHOLES SHALL BE PLACED AT LEAST 20 FEET AWAY FROM THE FOG LINE (BEYOND THE CLEAR RECOVERY ZONE), IN A SAFE LOCATION AWAY FROM ANY BIOLOGICAL OR CULTURAL AVOIDANCE AREAS. CONDUIT SHALL ENTER AND EXIT THE HANDHOLE USING SEPARATE TRENCHES AT 45-DEGREES TO THE ROADWAY TO MAINTAIN ROUTE DIVERSITY. INSPECTOR & CONTRACTOR SHALL REVIEW ALL FIELD CONDITIONS PRIOR TO CONSTRUCTION AND VERIFY THAT ALL INDICATED UHF UNITS ARE APPROPRIATELY LOCATED. FINAL POSITION OF UHF MAY BE RELOCATED IF A MORE APPROPRIATE POSITION CAN BE IDENTIFIED NEARBY. (NOTIFY ENGINEER AND/OR OWNER OF ANY DISCREPANCIES & ADJUSTMENTS). ALSO, NOTIFY ENGINEER AND/OR OWNER OF ADDITIONAL HANDHOLES THAT MAY BE REQUIRED, BUT ARE NOT INDICATED ON THE STAKING SHEETS.

INDEX

SHEET 01	TITLE SHEET, VICINITY MAP & INDEX
SHEET 02	SAN JOAQUIN COUNTY TRENCH NOTES AND WARNING SIGN DETAIL
SHEET 03	HANDHOLE AND BORE DETAILS
SHEET 04 - 06	TYPICAL TRAFFIC CONTROL PLANS
SHEET 07 - 50	STAKING PLANS & LEGEND

CVIN PERMIT: SM-B03

REV	DATE	DESCRIPTION	BY	CKD	APPV'D

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Tracy, Ca. 95376
Ph. 209-830-0162
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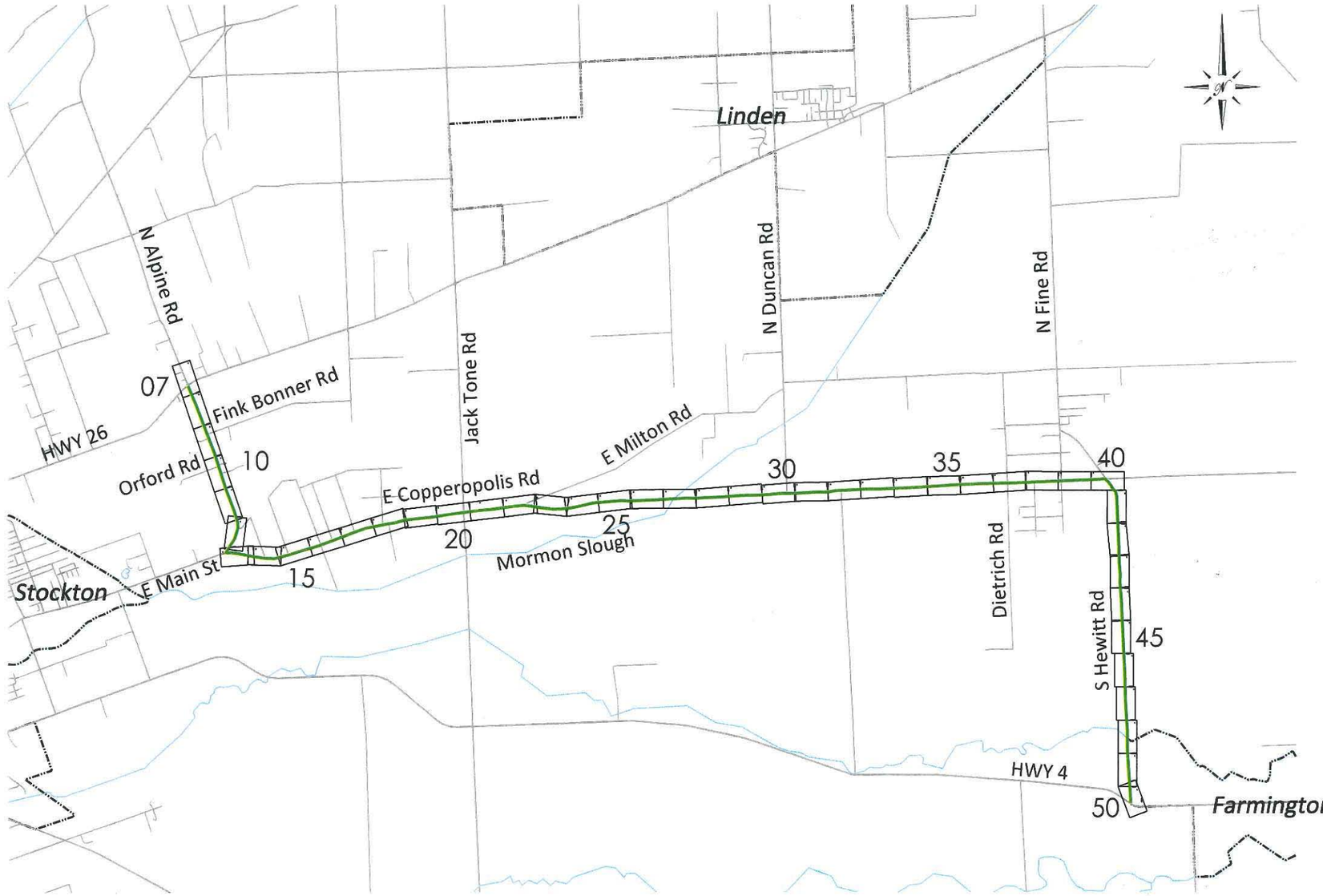
CVIN
CENTRAL VALLEY INDEPENDENT NETWORK
855 M Street, Suite 1120, Fresno, CA 93721

DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	NTS	16 STOCKTON-MILTON	01	50

PS. - 1102769 - (2)



KEY MAP
SCALE: NTS

PATH OF FIBER CABLE

CVIN PERMIT: SM-B03

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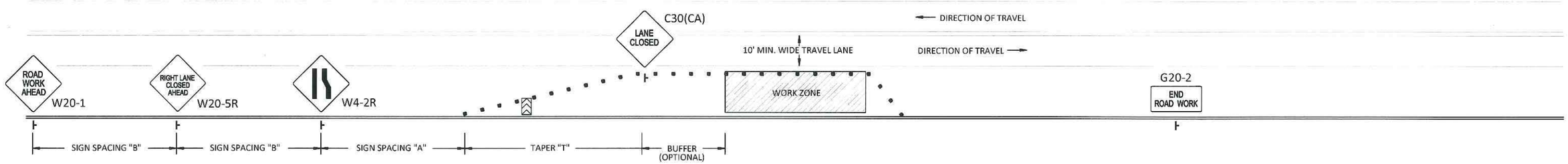
01/11/2012	NTS	16 STOCKTON-M

PS-1102769-(5)

PHASE 1



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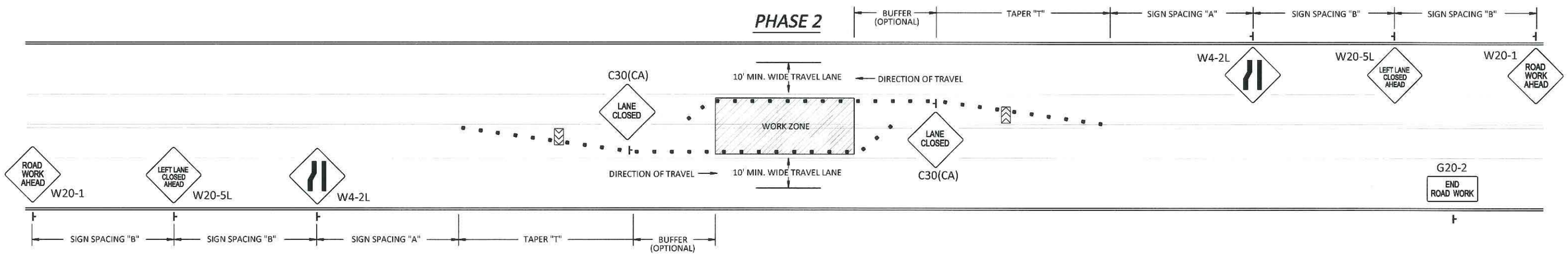

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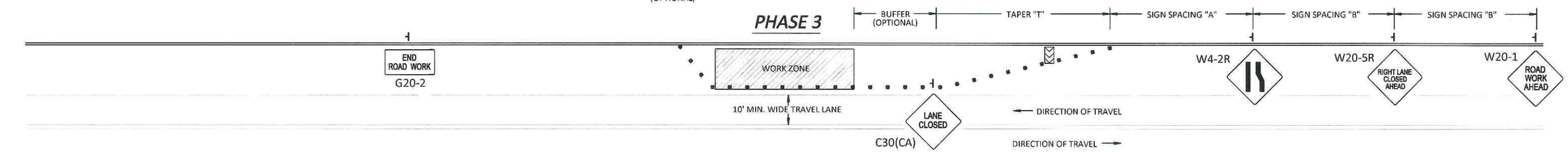

NOTE

BIKE LANE CLOSURE AND TEMPORARY "NO PARKING" SIGNS TO BE POSTED AS NECESSARY

MAINTAIN DRIVEWAY ACCESS AS CONSTRUCTION ALLOWS

SIGN SPACING CHART *

POSTED SPEED	"A"	"B"
40MPH OR LESS	100'	100'
45MPH AND OVER	350'	350'

TAPER CHART *

POSTED SPEED	"T"
25MPH	30'
30MPH	40'
35MPH	55'
40MPH	70'
45MPH	90'
50MPH +	110'

* = MUTCD RECOMMENDED DISTANCES

LEGEND

- TRAFFIC CONE
- FLASHING ARROW SIGN (FAS)
- BARRICADE
- WORK ZONE
- EXISTING TURN ONLY LANE
- EXISTING NO TURN LANE
- TRAFFIC SIGNAL
- FLAGGER
- SIGN (WITH CALTRANS CODE)
- HIGH LEVEL WARNING DEVICE (WITH CALTRANS & MUTCD CODE)
- TRAFFIC FLOW DIRECTION

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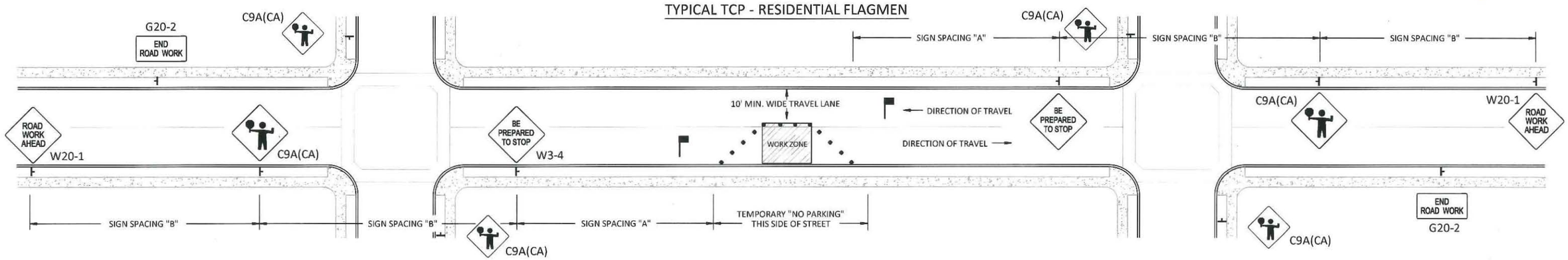
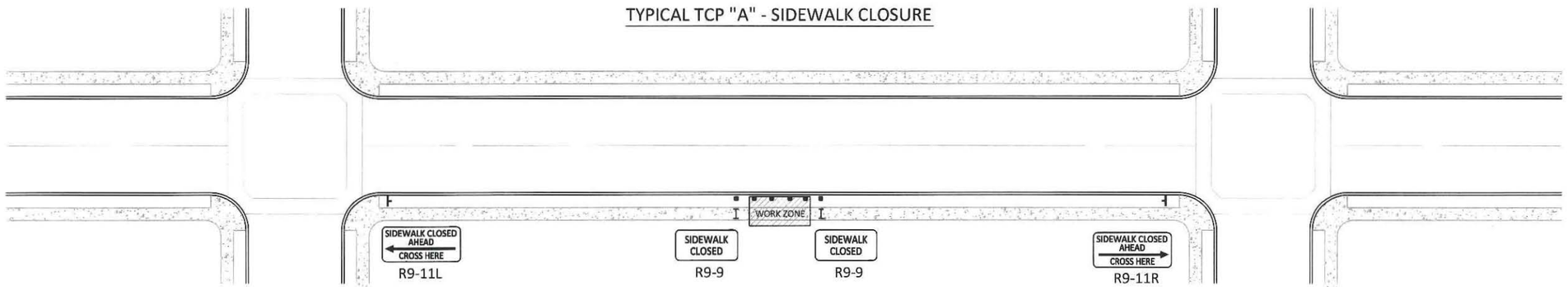
(6)

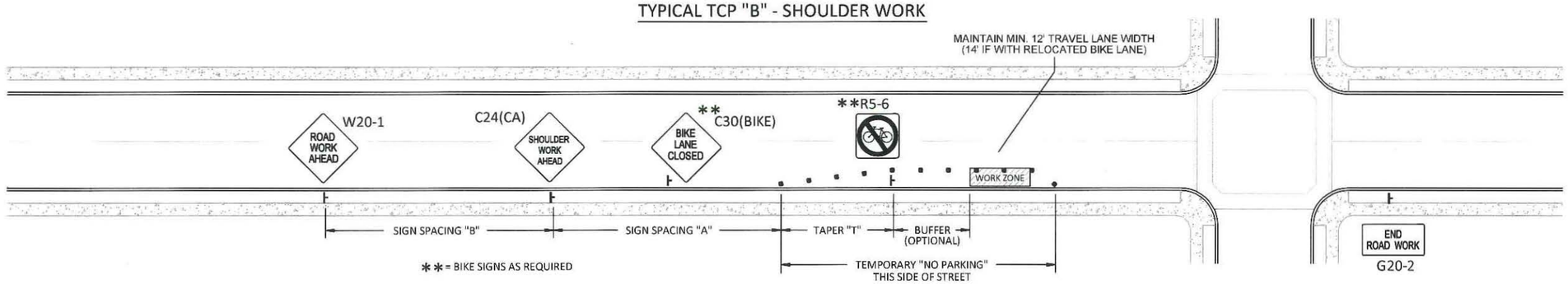
TYPICAL TCP - RESIDENTIAL FLAGMEN



TYPICAL TCP "A" - SIDEWALK CLOSURE



TYPICAL TCP "B" - SHOULDER WORK



** = BIKE SIGNS AS REQUIRED

TRAFFIC CONTROL PLAN TYPICALS
EDGE OF ROAD WORK ZONE

LEGEND

- TRAFFIC CONE
- FLASHING ARROW SIGN (FAS)
- BARRICADE
- WORK ZONE
- EXISTING TURN ONLY LANE
- EXISTING NO TURN LANE
- TRAFFIC SIGNAL
- FLAGGER
- SIGN (WITH CALTRANS CODE)
- HIGH LEVEL WARNING DEVICE (WITH CALTRANS & MUTCD CODE)
- TRAFFIC FLOW DIRECTION

TAPER CHART *

POSTED SPEED	"T"
25MPH	30'
30MPH	40'
35MPH	55'
40MPH	70'
45MPH	90'
50MPH +	110'

* = MUTCD RECOMMENDED DISTANCES

SIGN SPACING CHART *

POSTED SPEED	"A"	"B"
40MPH OR LESS	100'	100'
45MPH AND OVER	350'	350'

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01/11/2012	NTS	16 STOCKTON-MILTON	06	50

(7)

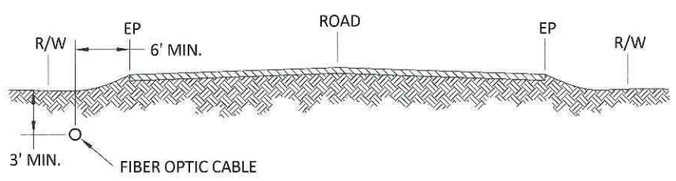
STAKING SHEET LEGEND

EXISTING LANDBASE

- CURB LINE / EDGE OF PAVEMENT
- RIGHT-OF-WAY
- ROADWAY CENTERLINE
- HANDICAP RAMP
- RAILROAD TRACKWAY
- WATERWAY
- SURFACED DRIVEWAY - NO CURBLINE
- SURFACED DRIVEWAY - CUT CURBLINE
- GRAVEL OR DIRT DRIVEWAY
- MINOR BRIDGE

PROPOSED CONSTRUCTION

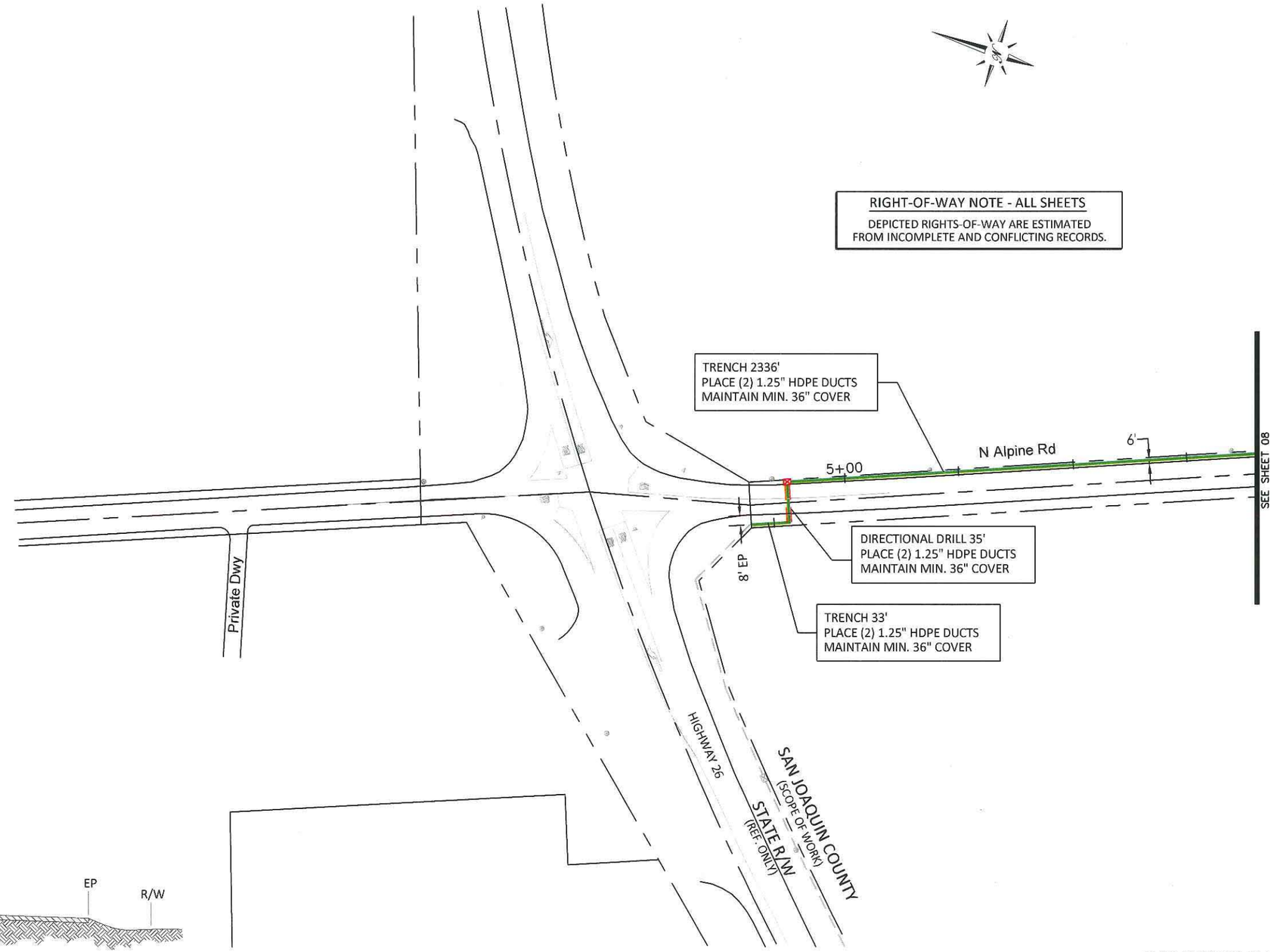
- CONSTRUCTION PATH
- DIRECTIONAL DRILL SEGMENT
- PROPOSED 2x3 HANDHOLE



LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

NOT TO SCALE



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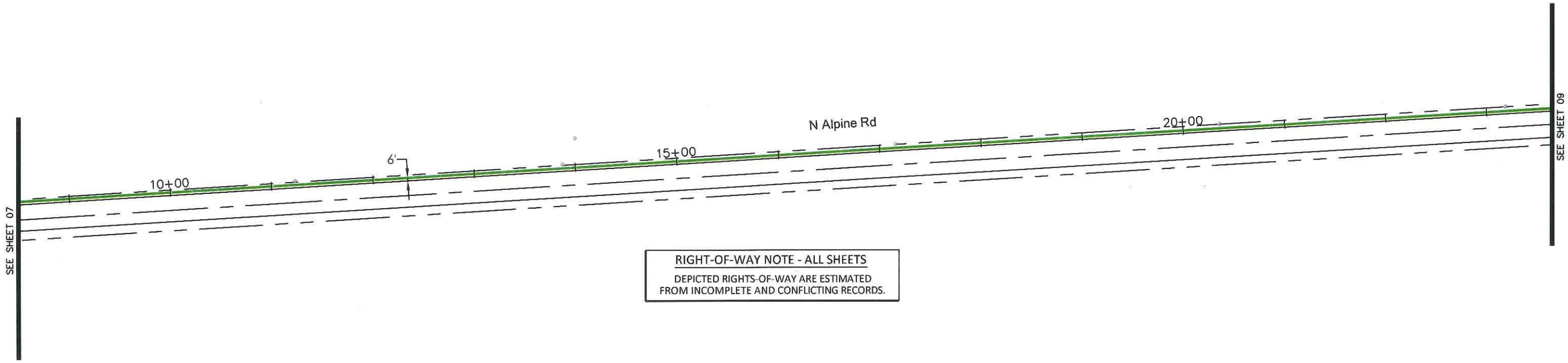
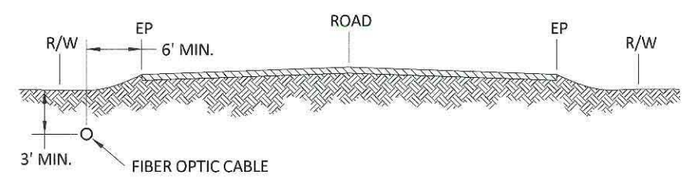
(8)



RIGHT-OF-WAY NOTE - ALL SHEETS

DEPICTED RIGHTS-OF-WAY ARE ESTIMATED FROM INCOMPLETE AND CONFLICTING RECORDS.



LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

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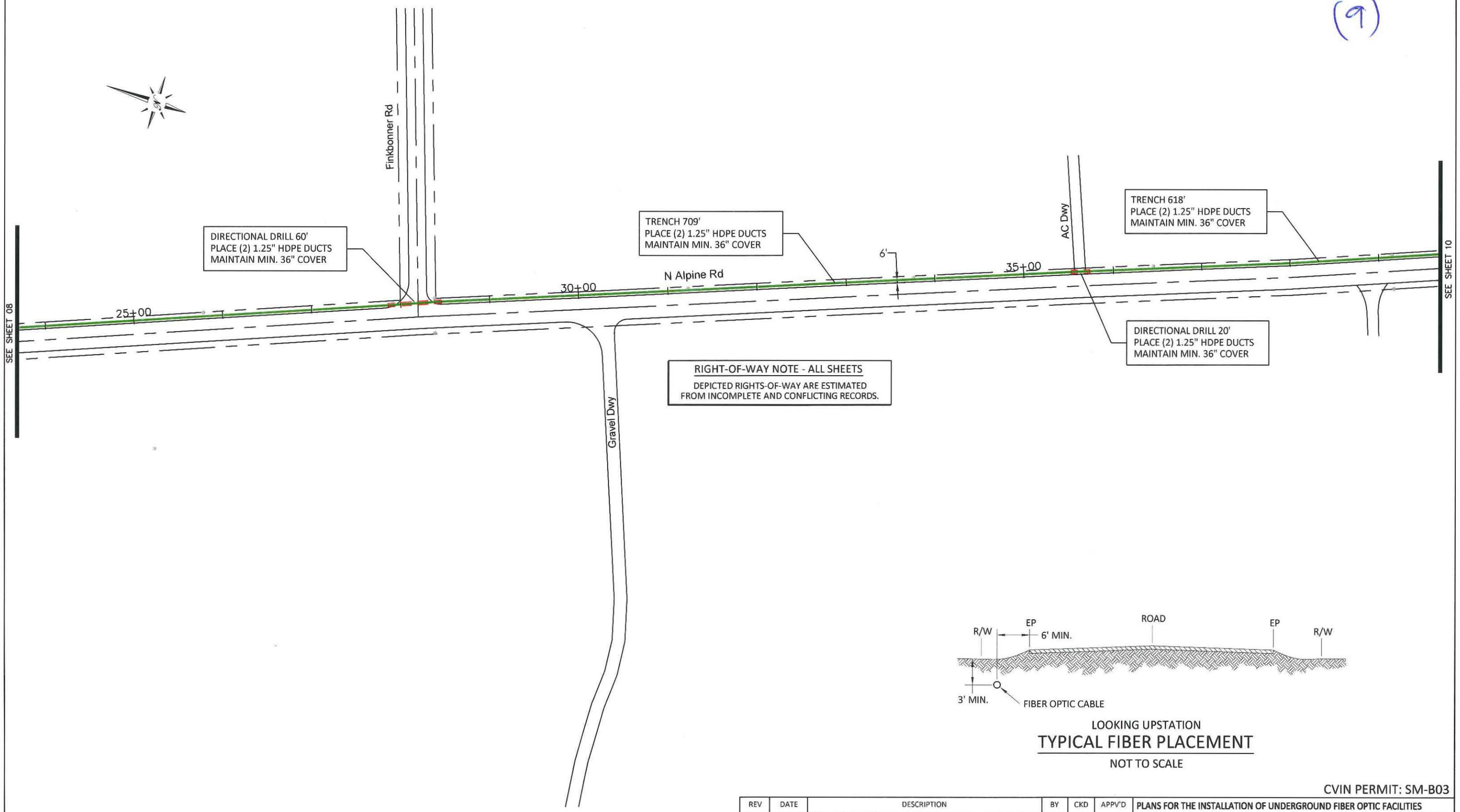
(9)



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LOOKING UPSTATION

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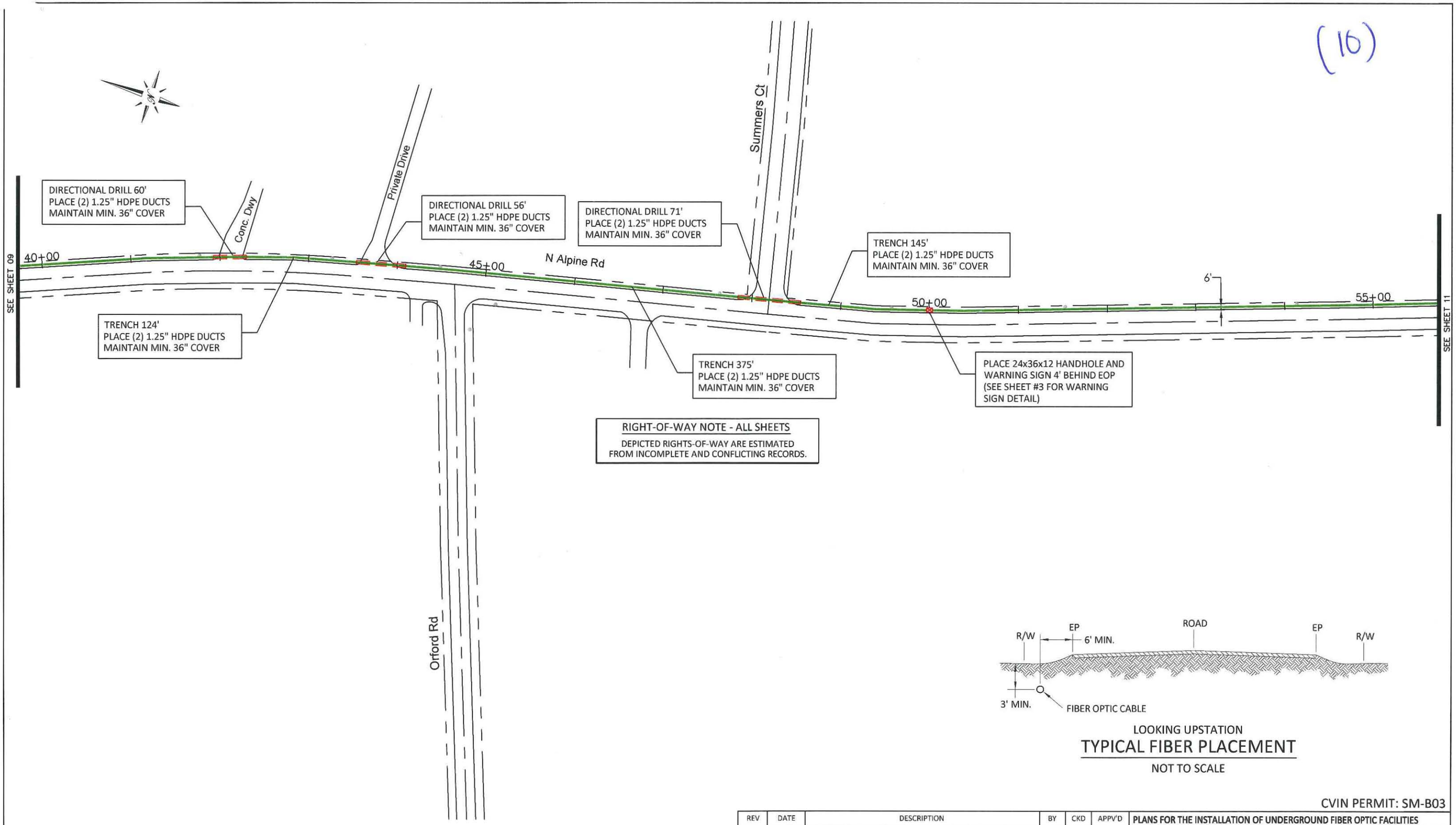
(10)



LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

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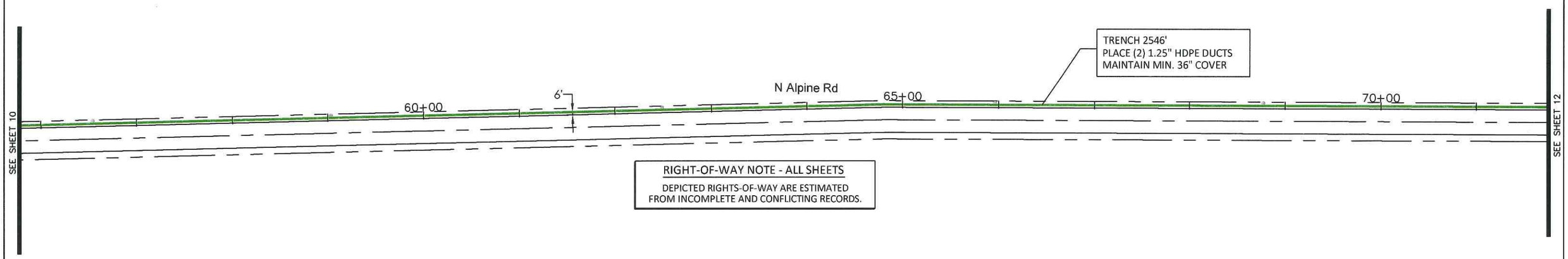
(11)



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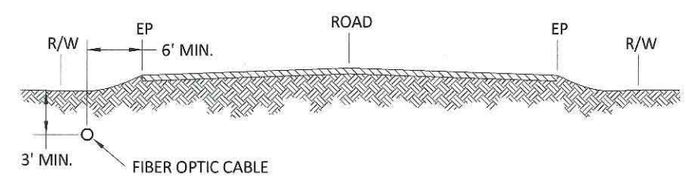

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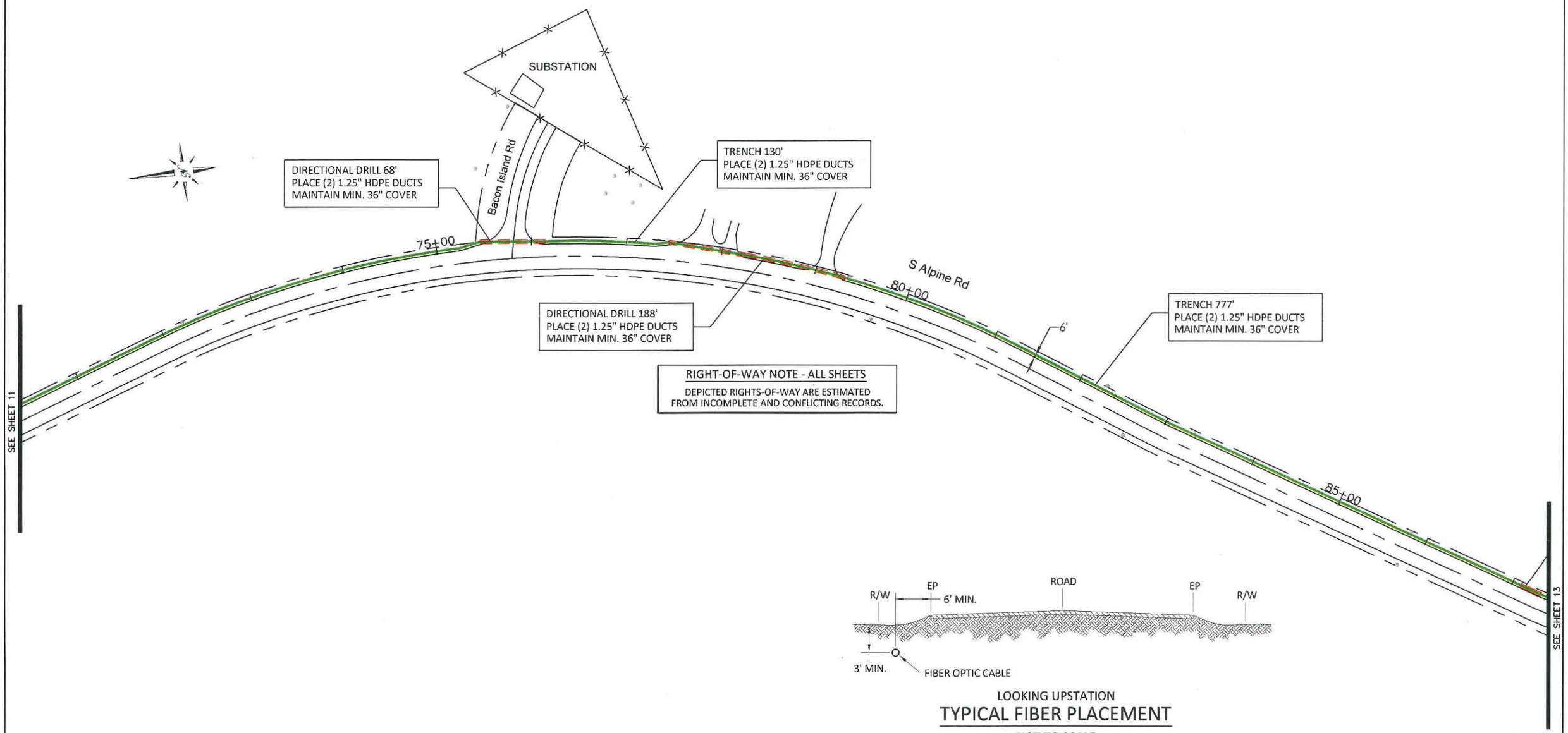
855 M Street, Suite 1120, Fresno, CA 93721

DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	11	50

(12)



RIGHT-OF-WAY NOTE - ALL SHEETS

DEPICTED RIGHTS-OF-WAY ARE ESTIMATED FROM INCOMPLETE AND CONFLICTING RECORDS.

LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

NOT TO SCALE

CVIN PERMIT: SM-B03

REV	DATE	DESCRIPTION	BY	CKD	APPV'D

PLANS FOR THE INSTALLATION OF UNDERGROUND FIBER OPTIC FACILITIES

Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157

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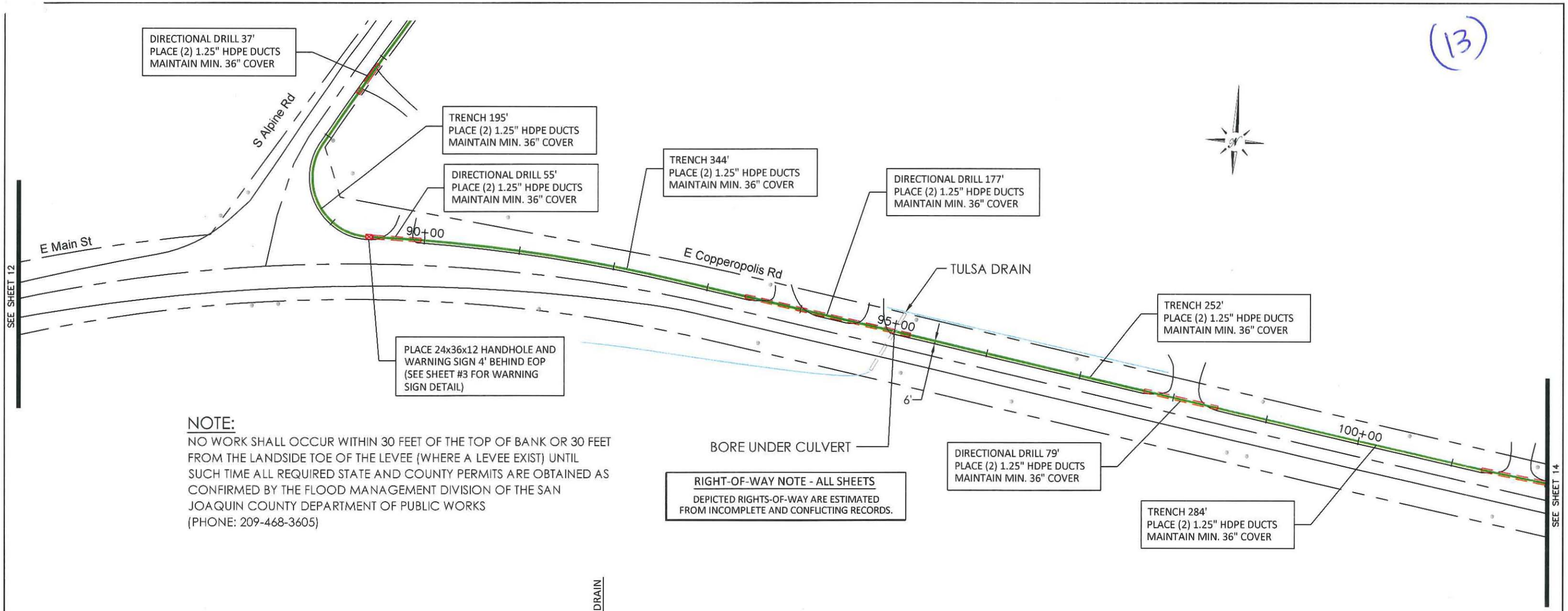
DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	12	50

(13)



NOTE:

NO WORK SHALL OCCUR WITHIN 30 FEET OF THE TOP OF BANK OR 30 FEET FROM THE LANDSIDE TOE OF THE LEVEE (WHERE A LEVEE EXIST) UNTIL SUCH TIME ALL REQUIRED STATE AND COUNTY PERMITS ARE OBTAINED AS CONFIRMED BY THE FLOOD MANAGEMENT DIVISION OF THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS (PHONE: 209-468-3605)

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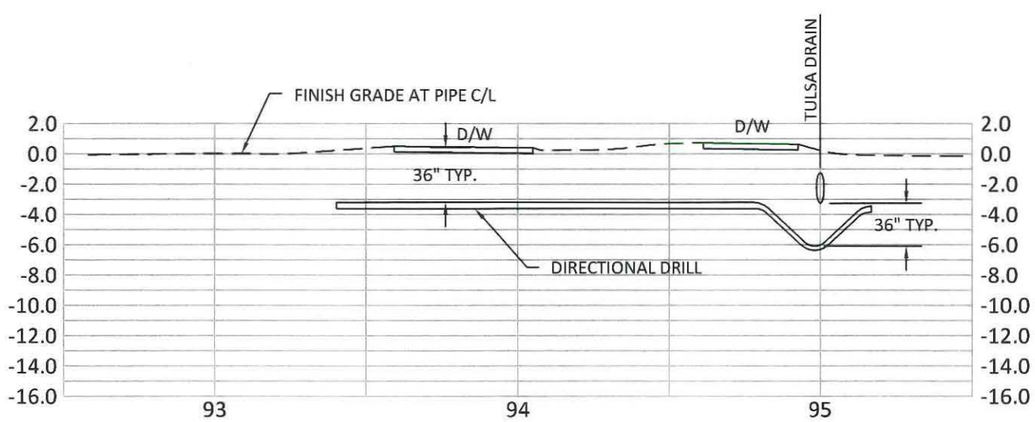
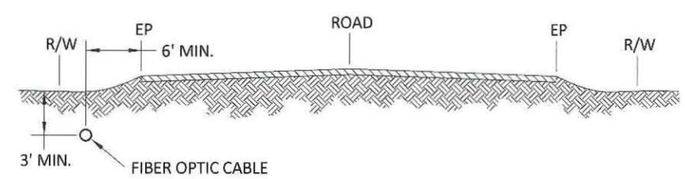


"LOOKING NORTH"

BORE PROFILE
DIRECTIONAL DRILL AT TULSA DRAIN

SCALE: HOR. 1"=50' ; VERT. 1"=10'



LOOKING UPSTATION

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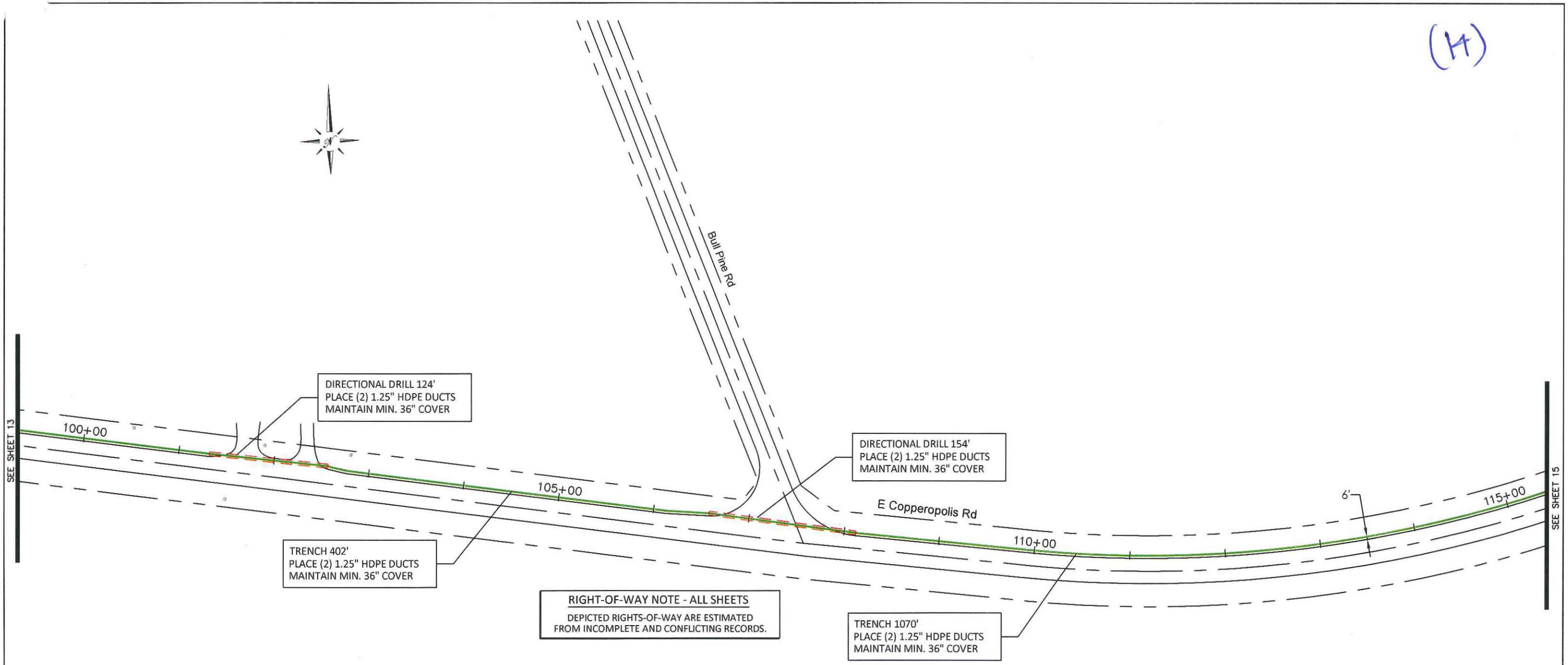
DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	13	50

(H)



RIGHT-OF-WAY NOTE - ALL SHEETS

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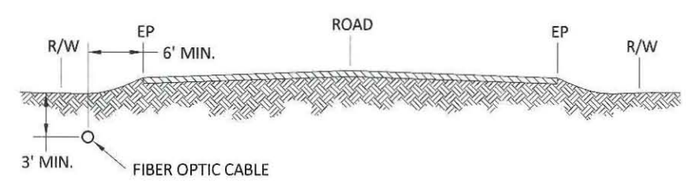

LOOKING UPSTATION

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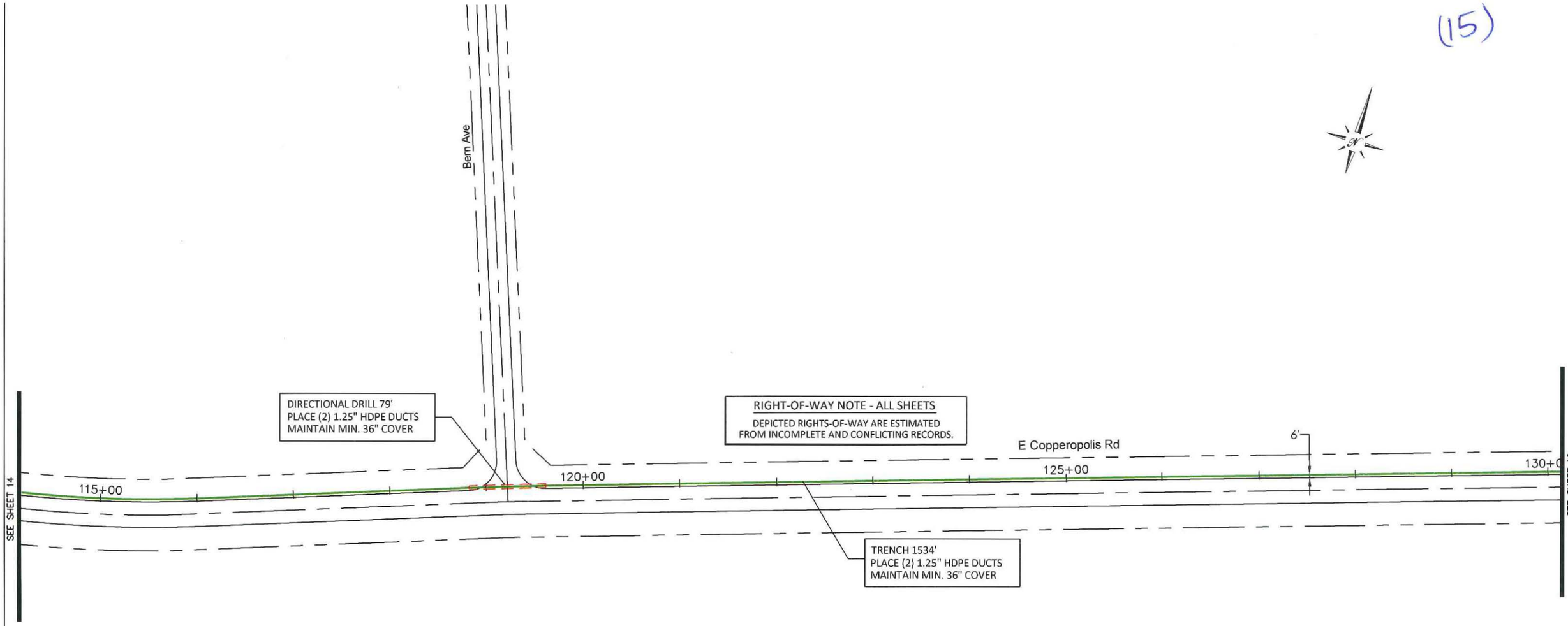
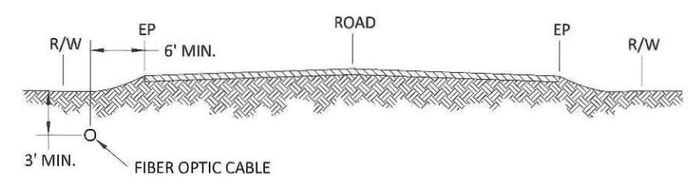
DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	14	50

(15)





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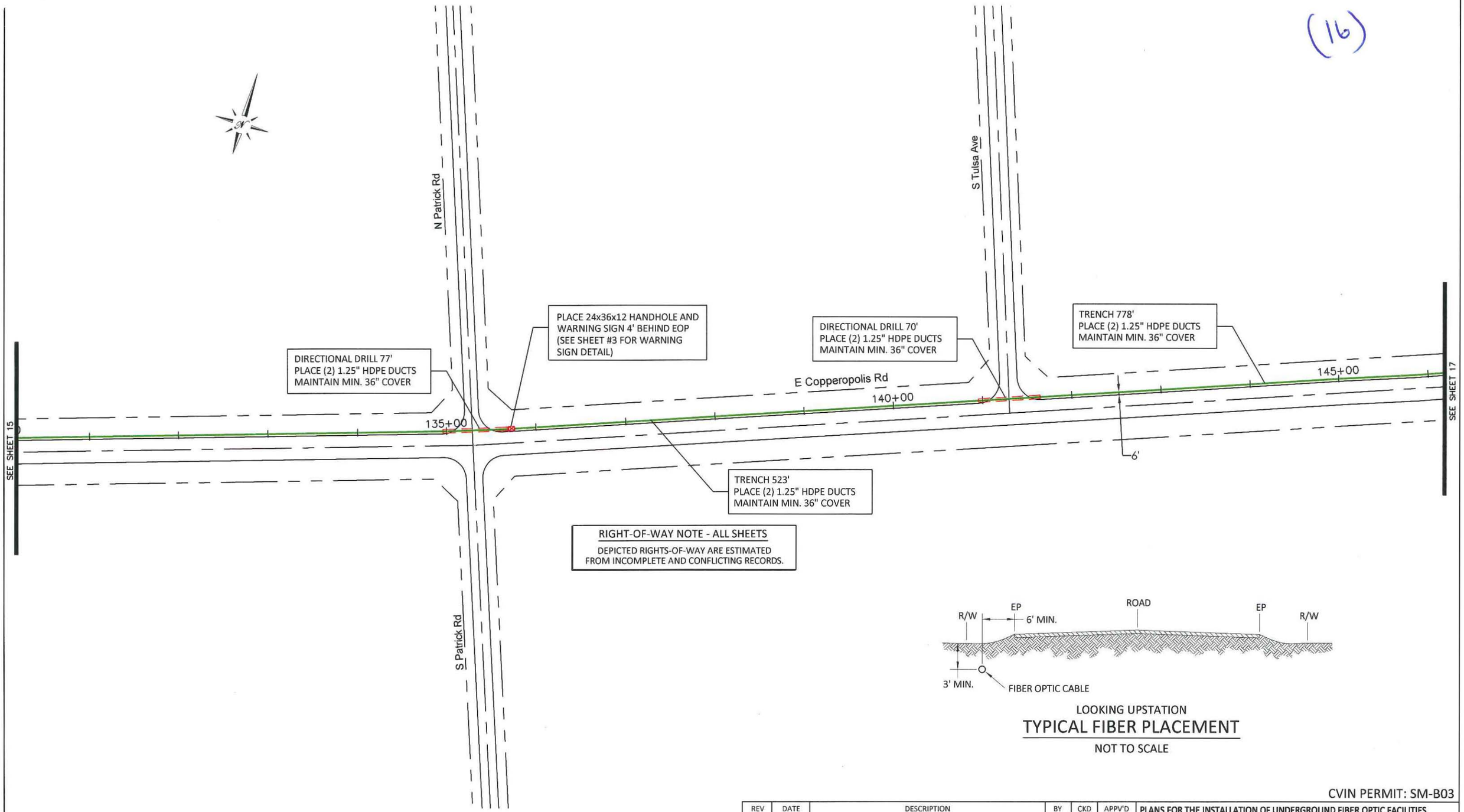
DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	15	50

(16)



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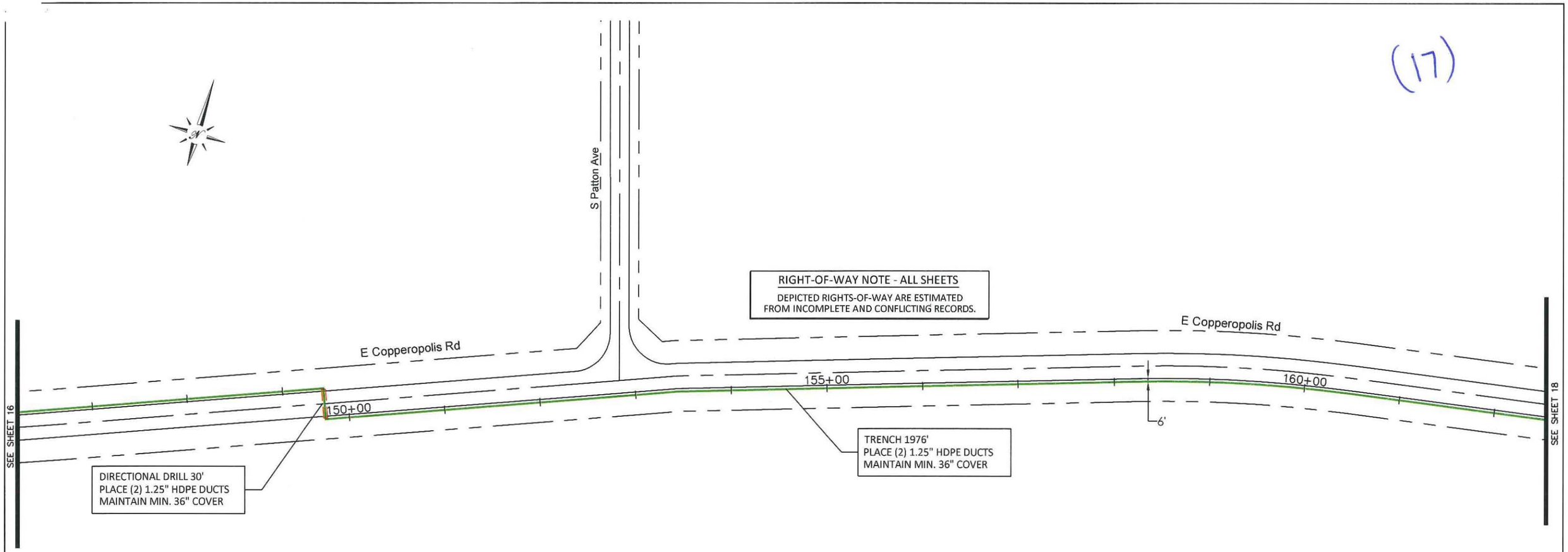
01/11/2012	1"=100'	16 STOCKTON-MILTON	16	50

(17)



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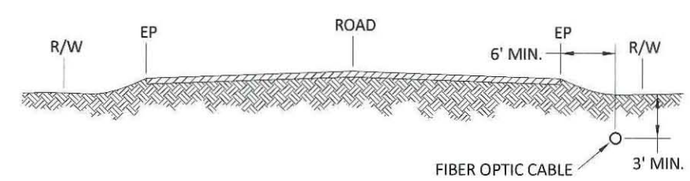

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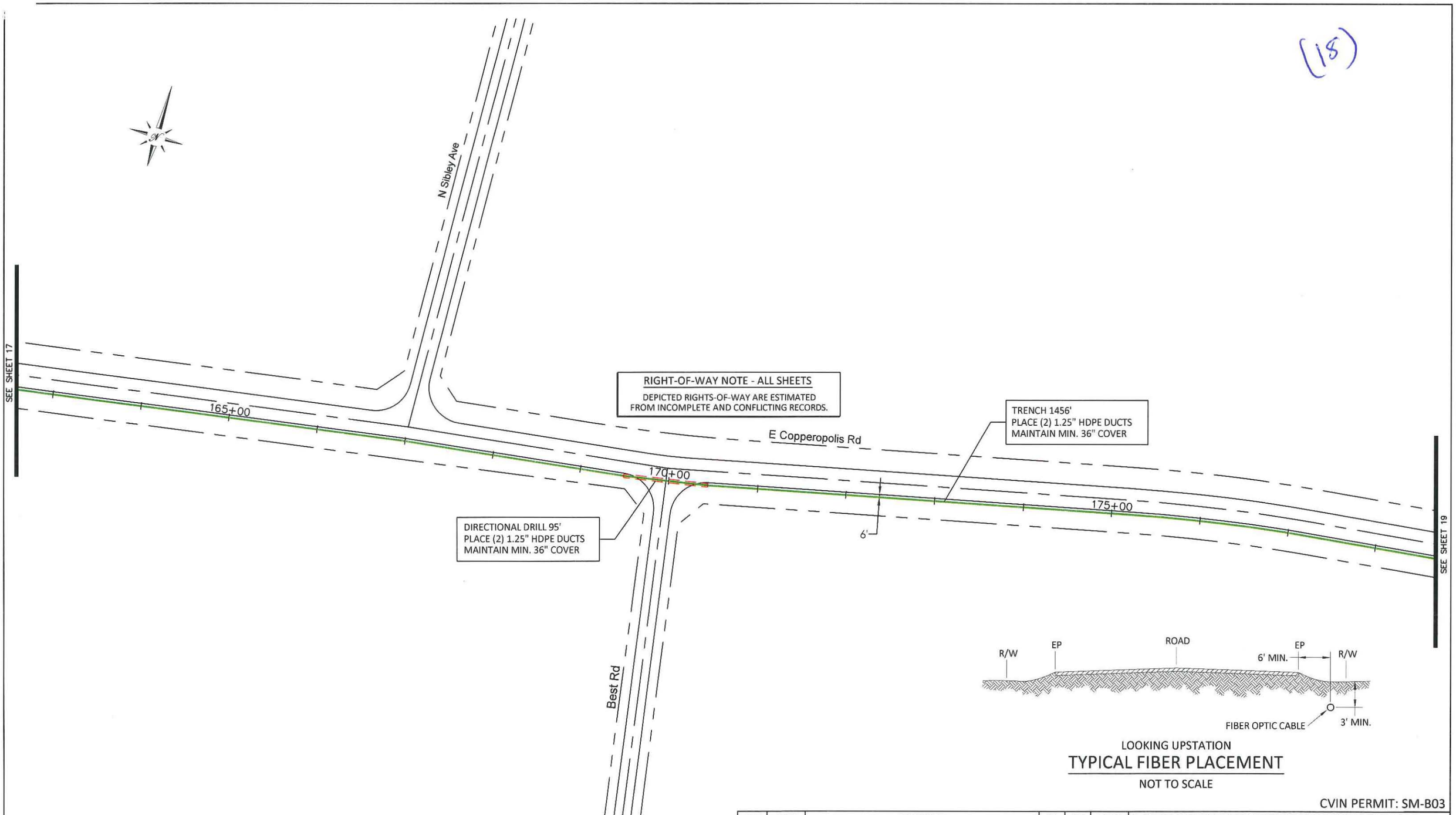
01/11/2012	1"=100'	16 STOCKTON-MILTON	17	50

(18)



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(19)

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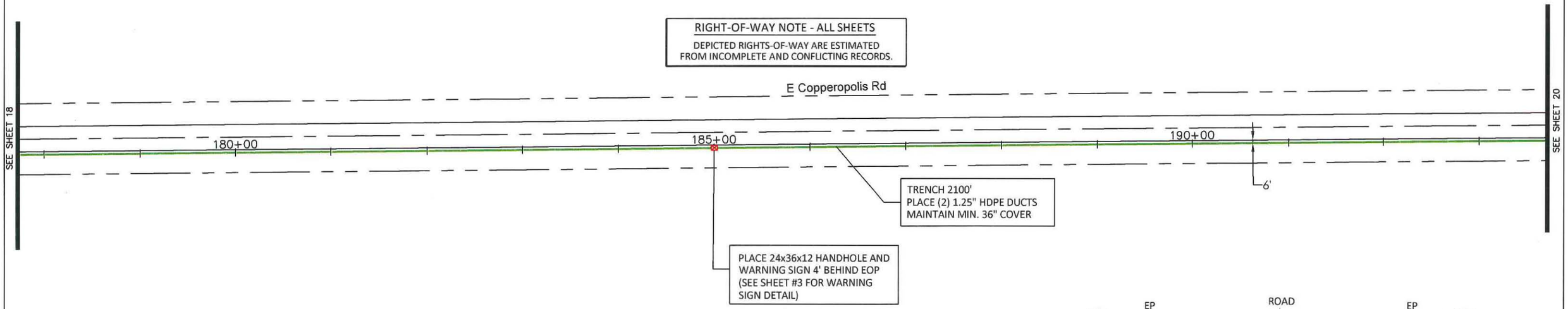

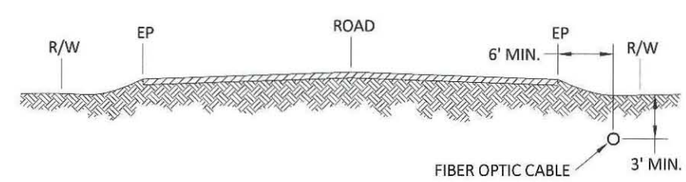

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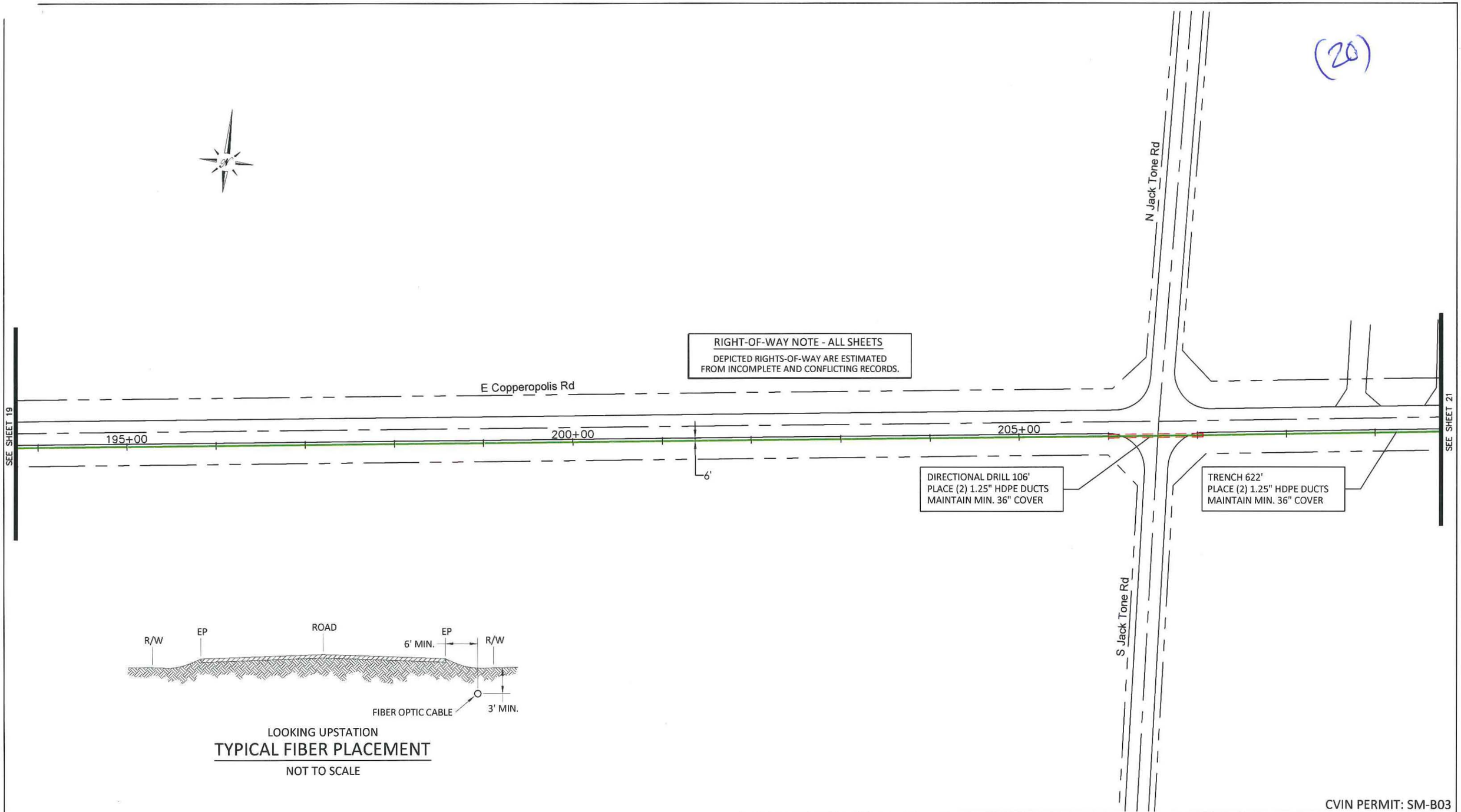
01/11/2012	1"=100'	16 STOCKTON-MILTON	19	50

(20)



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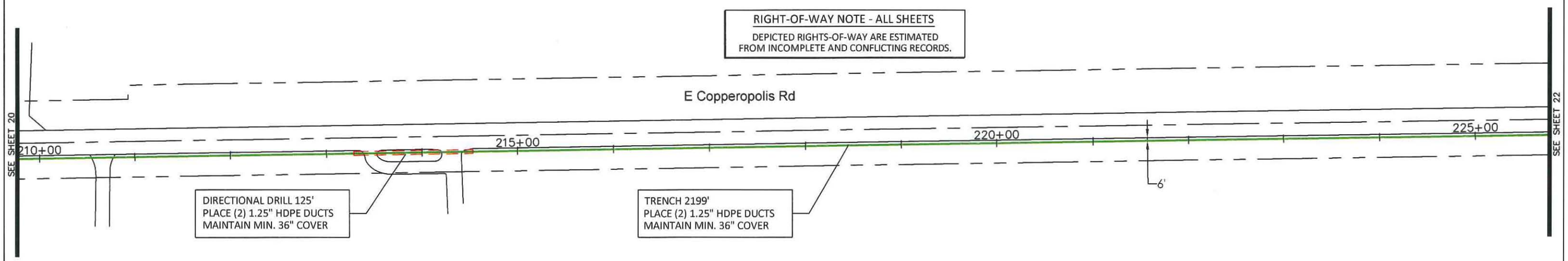
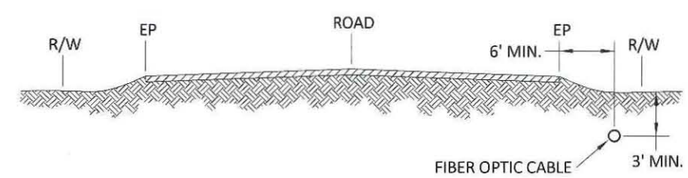
01/11/2012	1"=100'	16 STOCKTON-MILTON	20	50

(21)





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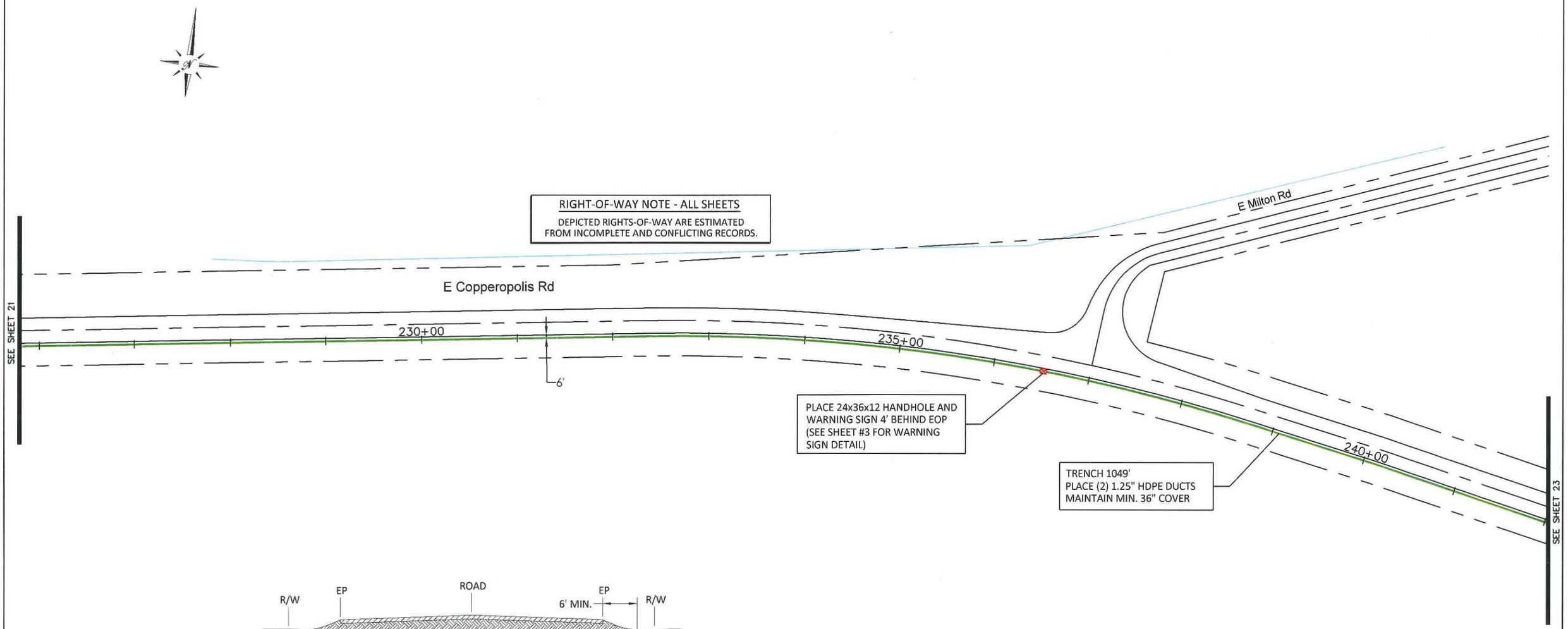
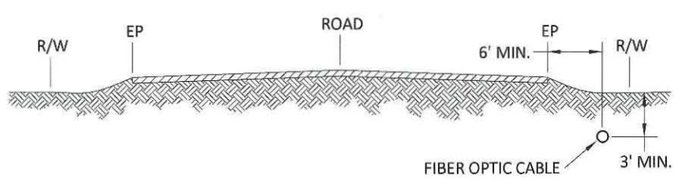
01/11/2012	1"=100'	16 STOCKTON-MILTON	21	50

(22)





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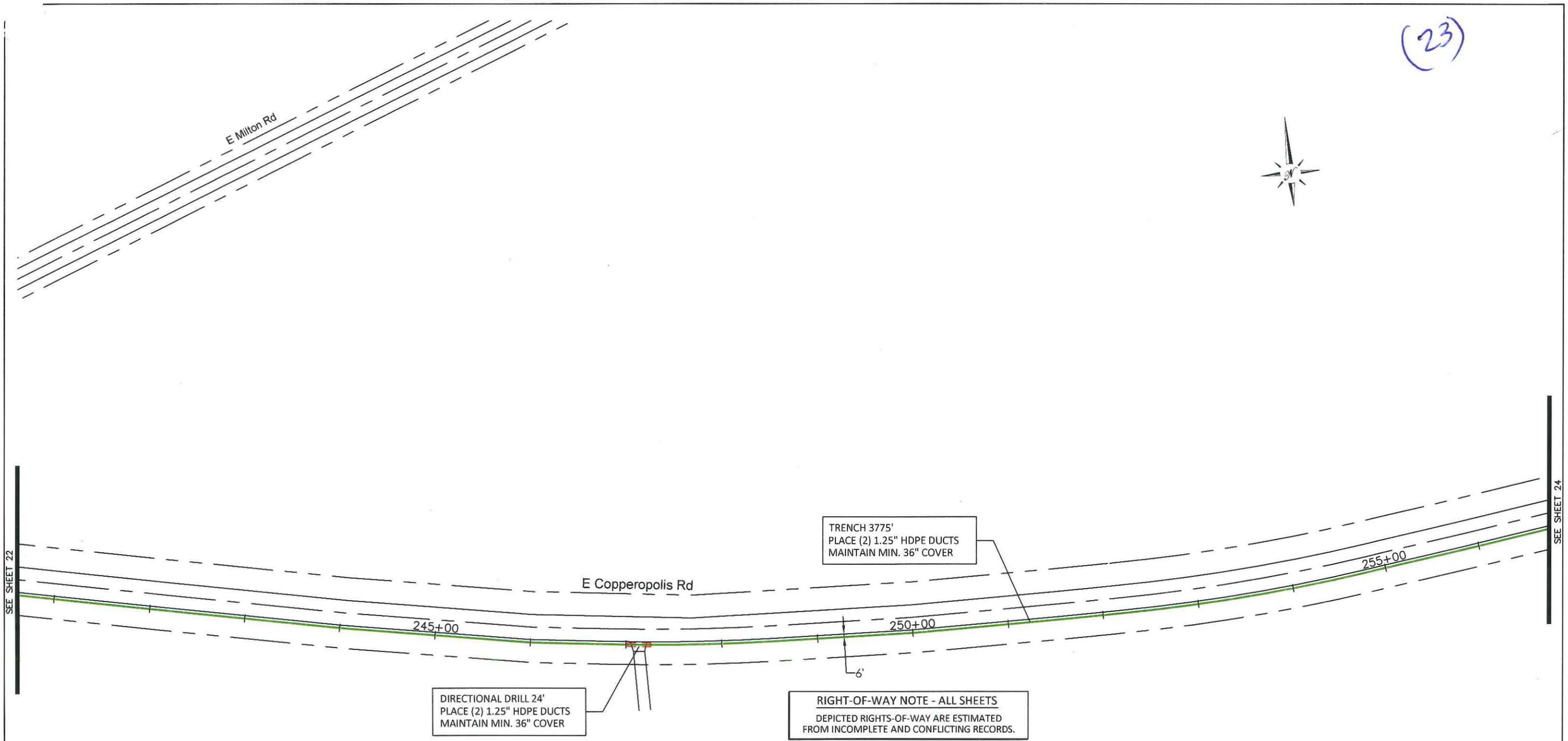
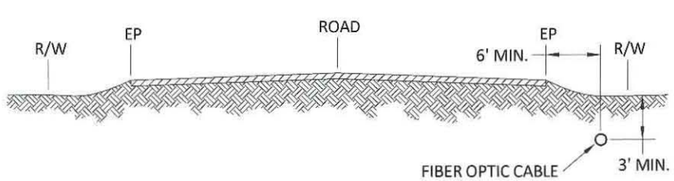
01/11/2012	1"=100'	16 STOCKTON-MILTON	22	50

(23)





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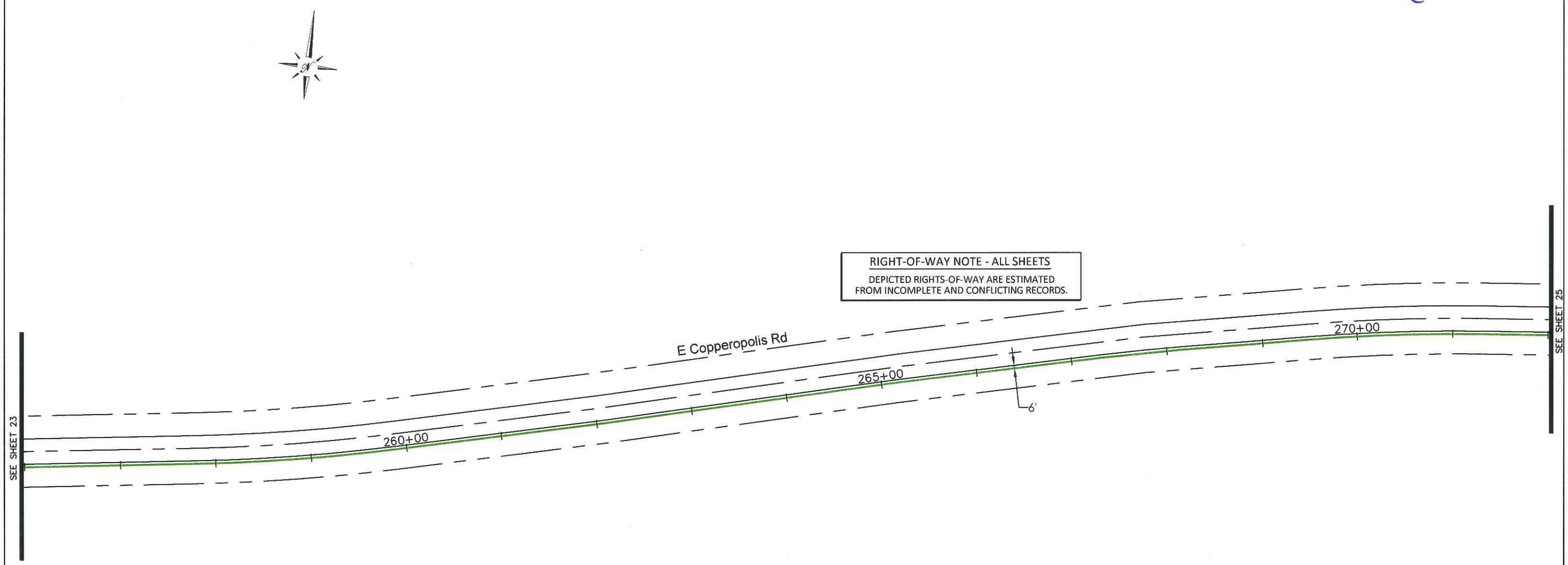
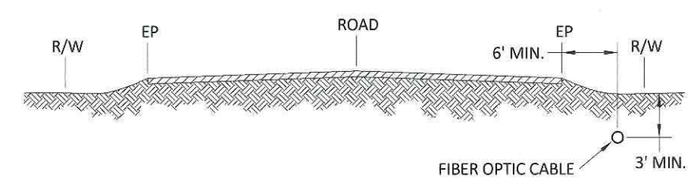
(24)





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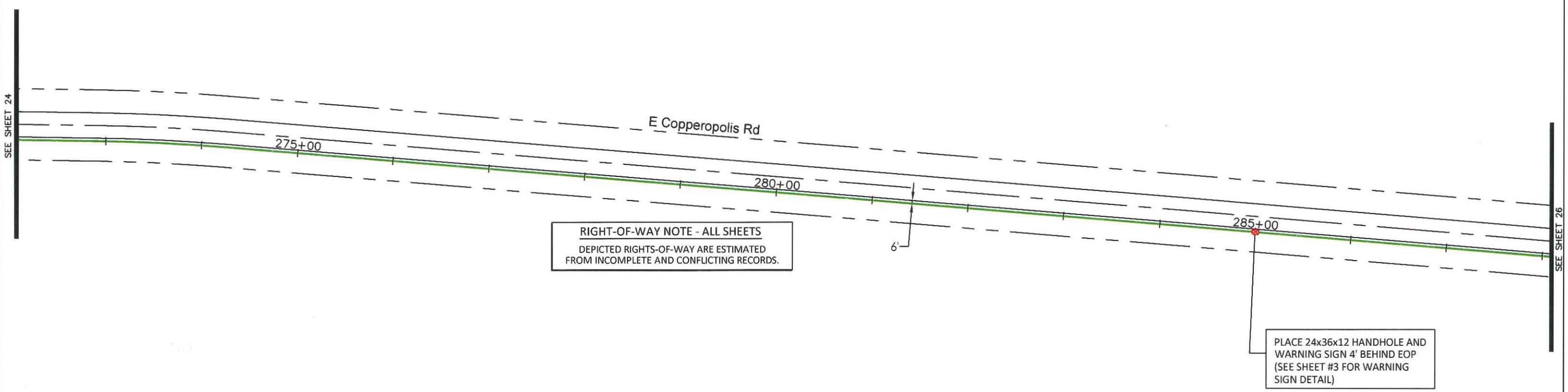
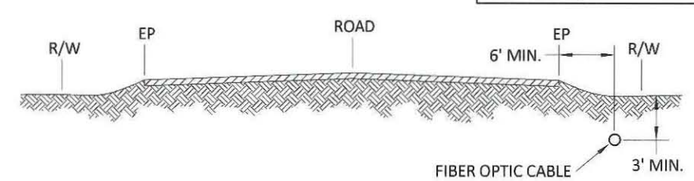
(25)





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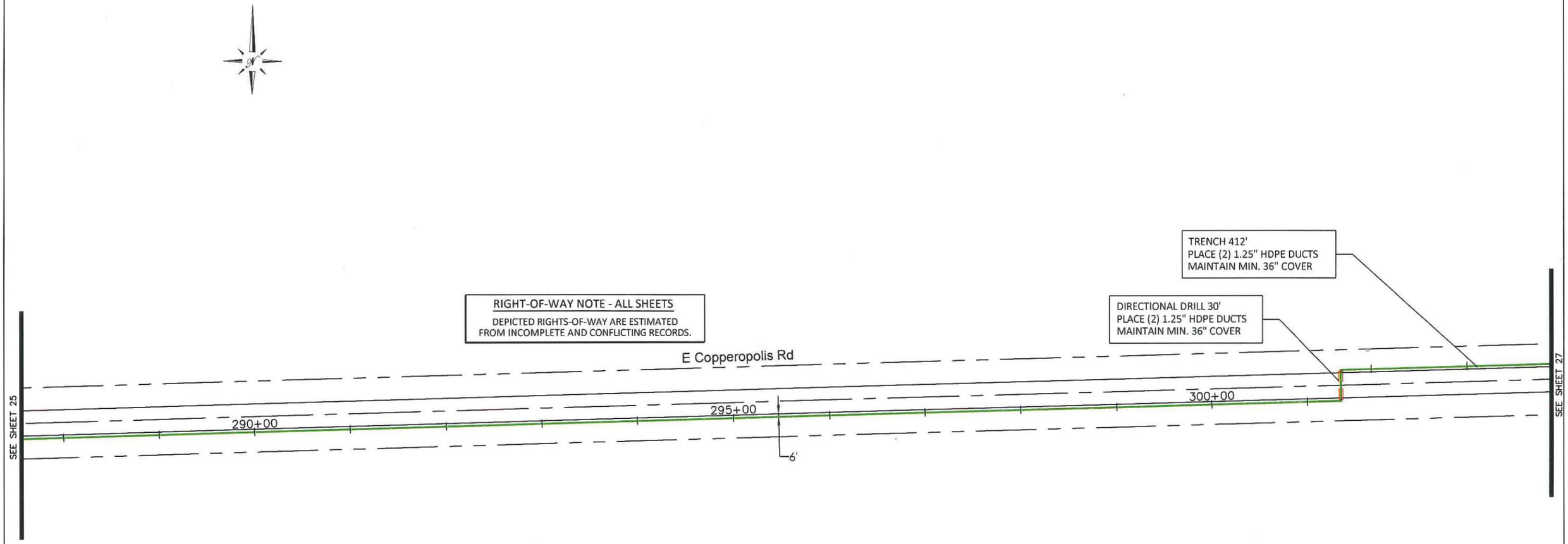
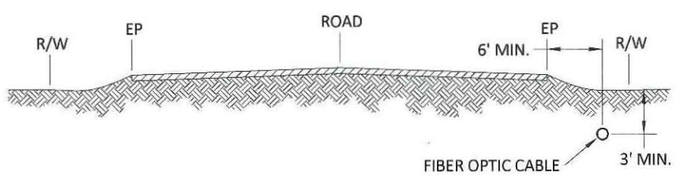
(26)





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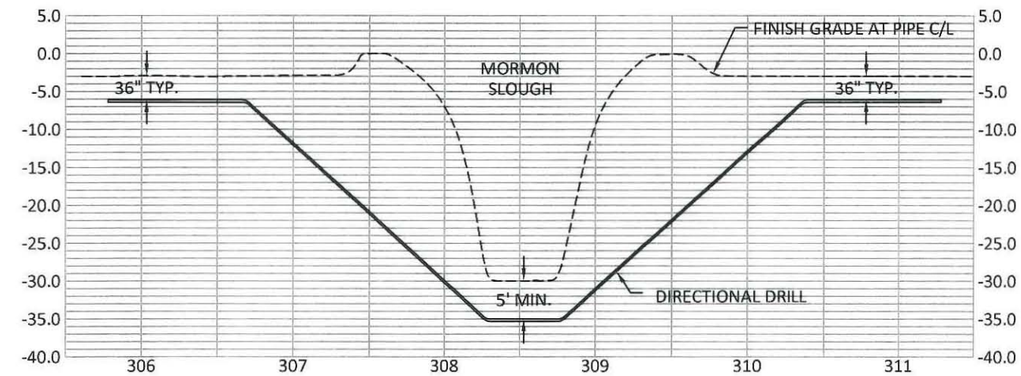
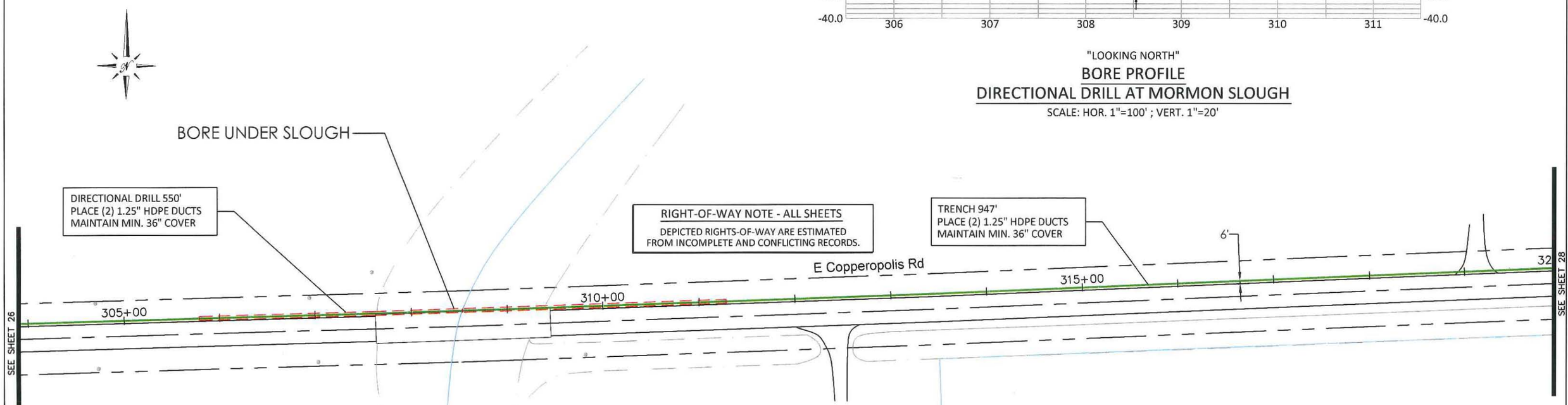
(27)



"LOOKING NORTH"

BORE PROFILE
DIRECTIONAL DRILL AT MORMON SLOUGH

SCALE: HOR. 1"=100' ; VERT. 1"=20'



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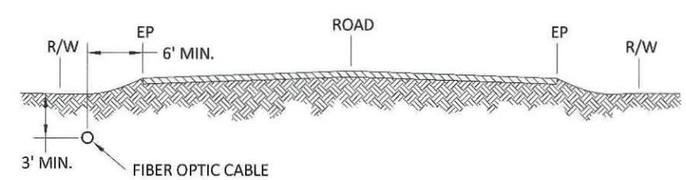

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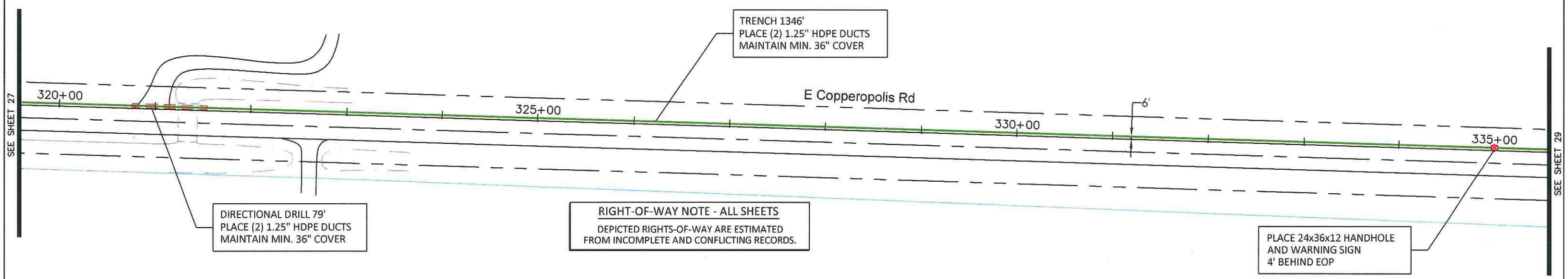
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157

CVIN
CENTRAL VALLEY INDEPENDENT NETWORK
855 M Street, Suite 1120, Fresno, CA 93721

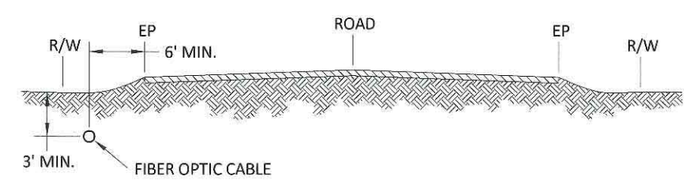
DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	27	50

(28)



RIGHT-OF-WAY NOTE - ALL SHEETS

DEPICTED RIGHTS-OF-WAY ARE ESTIMATED FROM INCOMPLETE AND CONFLICTING RECORDS.



LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

NOT TO SCALE

CVIN PERMIT: SM-B03

REV	DATE	DESCRIPTION	BY	CKD	APPV'D

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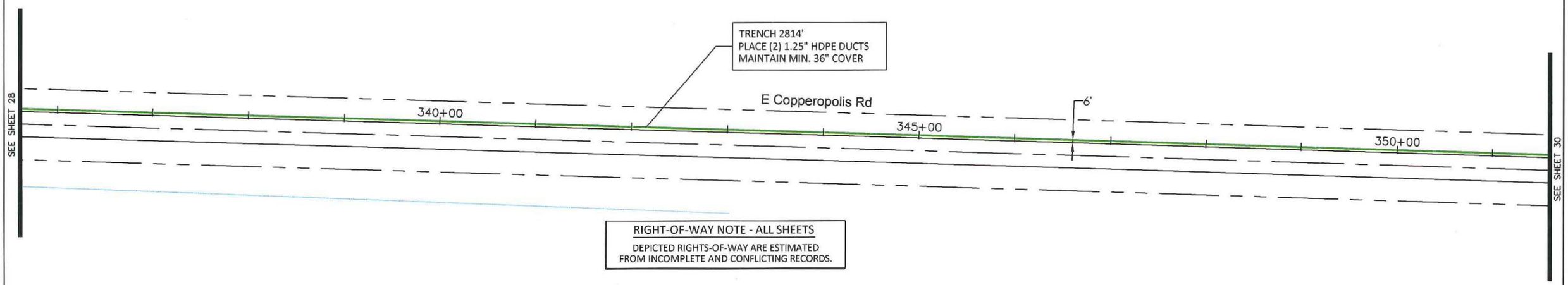
01/11/2012	1"=100'	16 STOCKTON-MILTON	28	50

(29)



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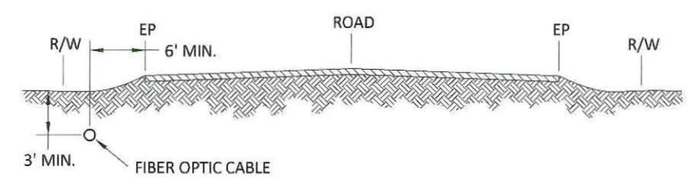

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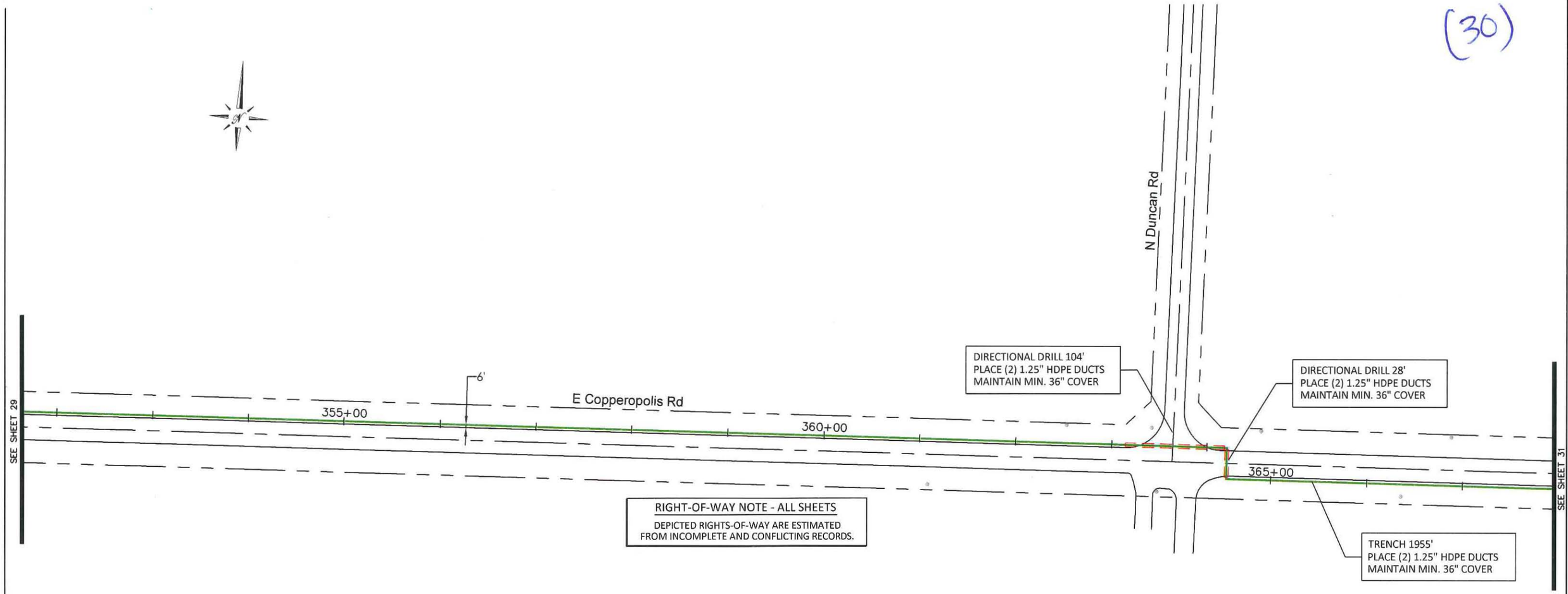
01/11/2012	1"=100'	16 STOCKTON-MILTON	29	50

(30)



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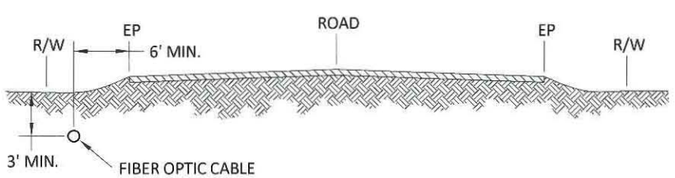

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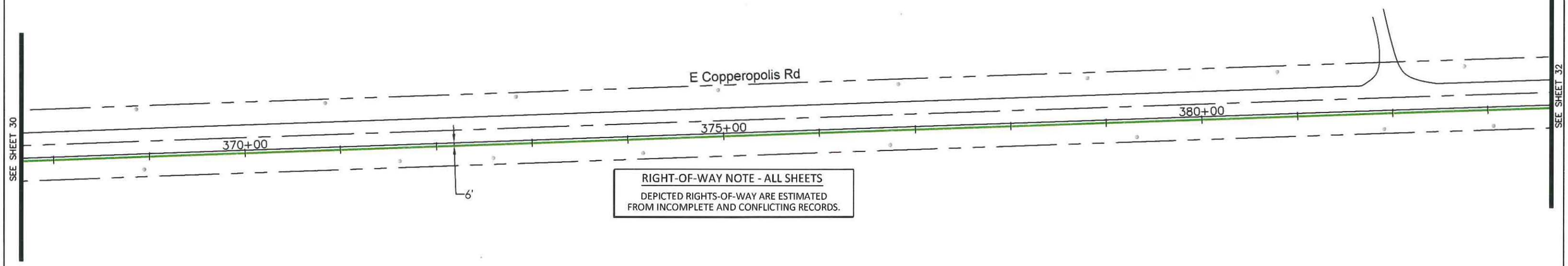
DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	30	50

(31)



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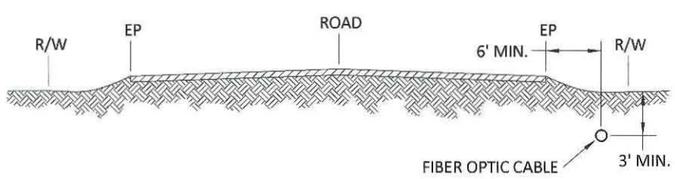

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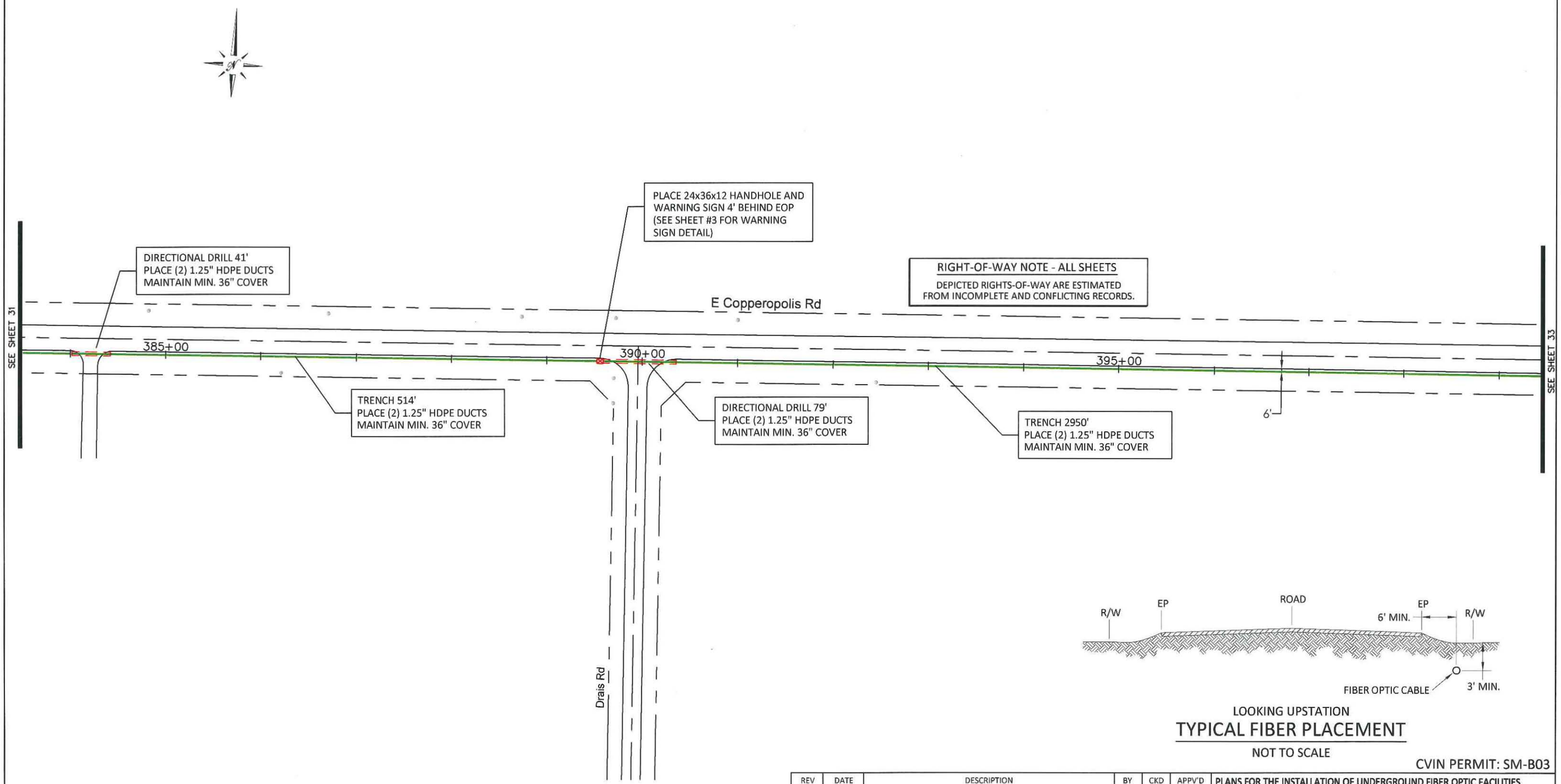
01/11/2012	1"=100'	16 STOCKTON-MILTON	31	50

(32)



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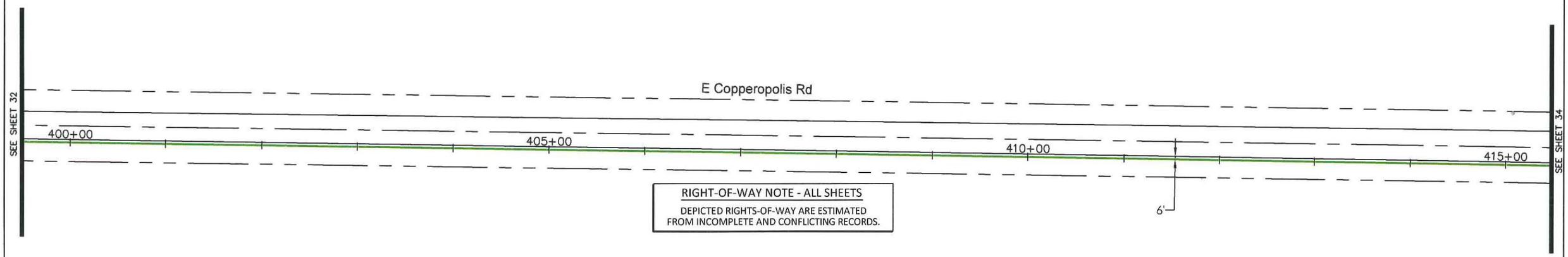
01/11/2012	1"=100'	16 STOCKTON-MILTON	32	50

(33)



RIGHT-OF-WAY NOTE - ALL SHEETS

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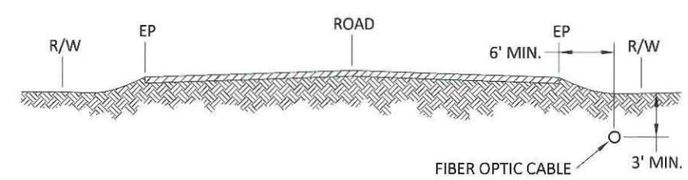

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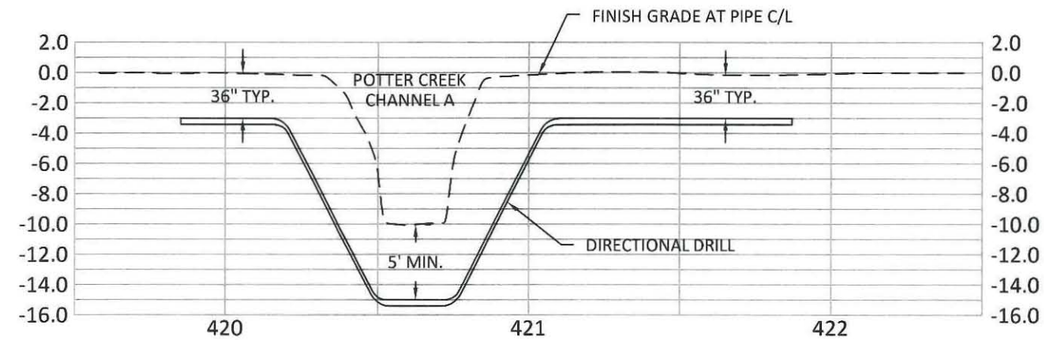
01/11/2012	1"=100'	16 STOCKTON-MILTON	33	50

(34)



"LOOKING NORTH"

BORE PROFILE
DIRECTIONAL DRILL AT POTTER CREEK CHANNEL A

SCALE: HOR. 1"=50' ; VERT. 1"=10'

RIGHT-OF-WAY NOTE - ALL SHEETS

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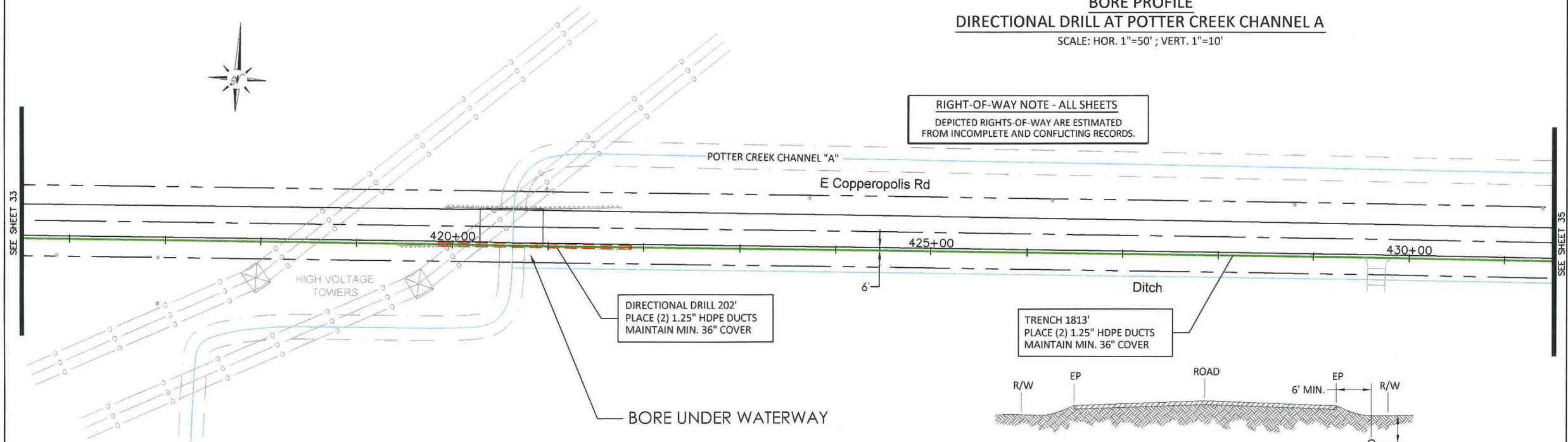

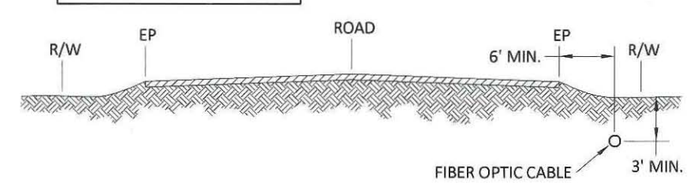

LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

NOT TO SCALE

NOTE:

NO WORK SHALL OCCUR WITHIN 30 FEET OF THE TOP OF BANK OR 30 FEET FROM THE LANDSIDE TOE OF THE LEVEE (WHERE A LEVEE EXIST) UNTIL SUCH TIME ALL REQUIRED STATE AND COUNTY PERMITS ARE OBTAINED AS CONFIRMED BY THE FLOOD MANAGEMENT DIVISION OF THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS (PHONE: 209-468-3605)

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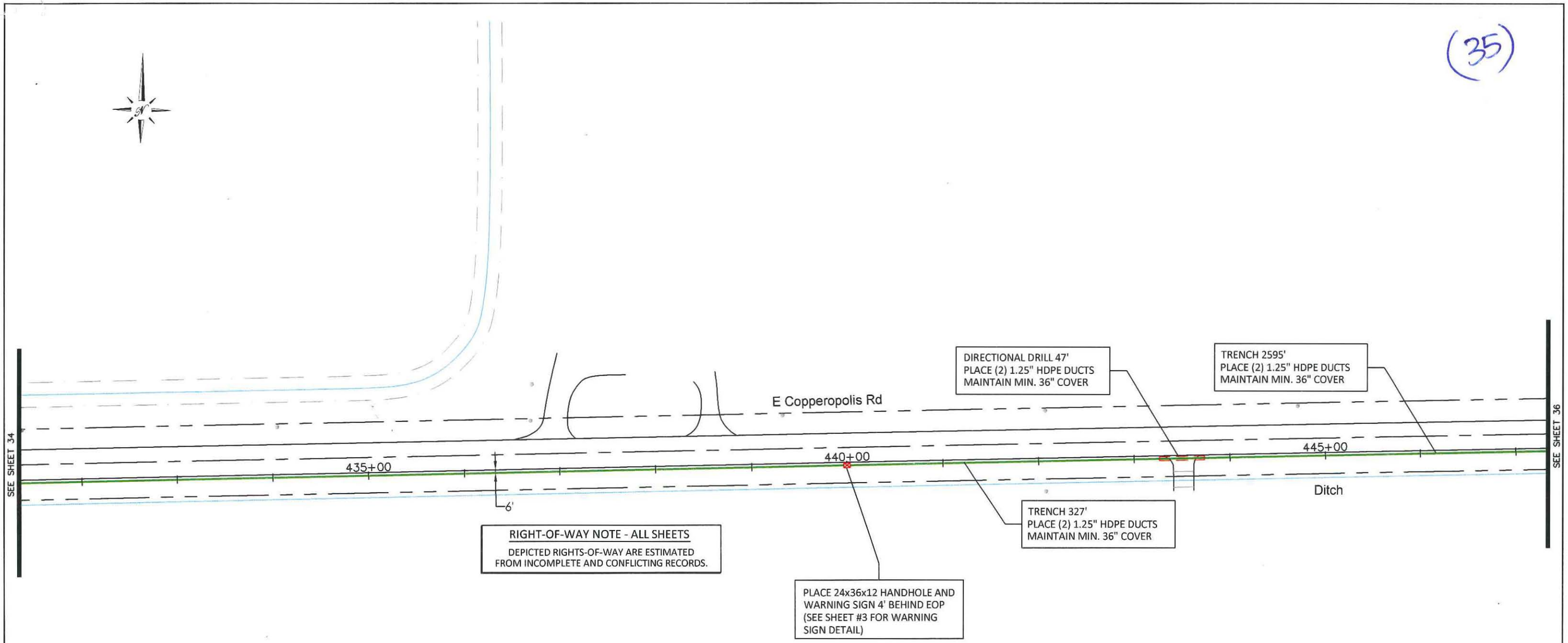
(35)



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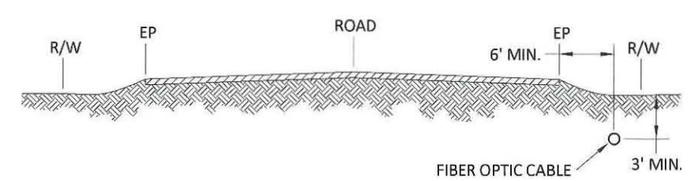

LOOKING UPSTATION

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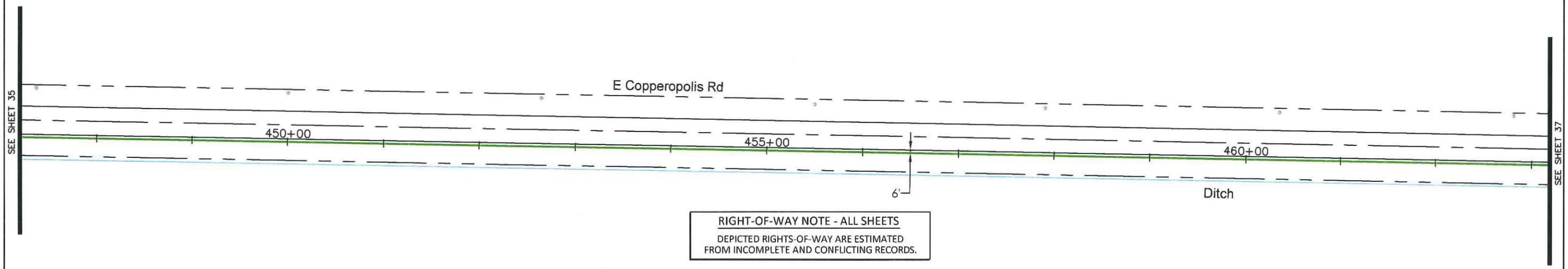
01/11/2012	1"=100'	16 STOCKTON-MILTON	35	50

(36)



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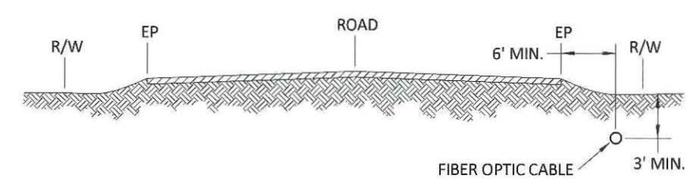

LOOKING UPSTATION

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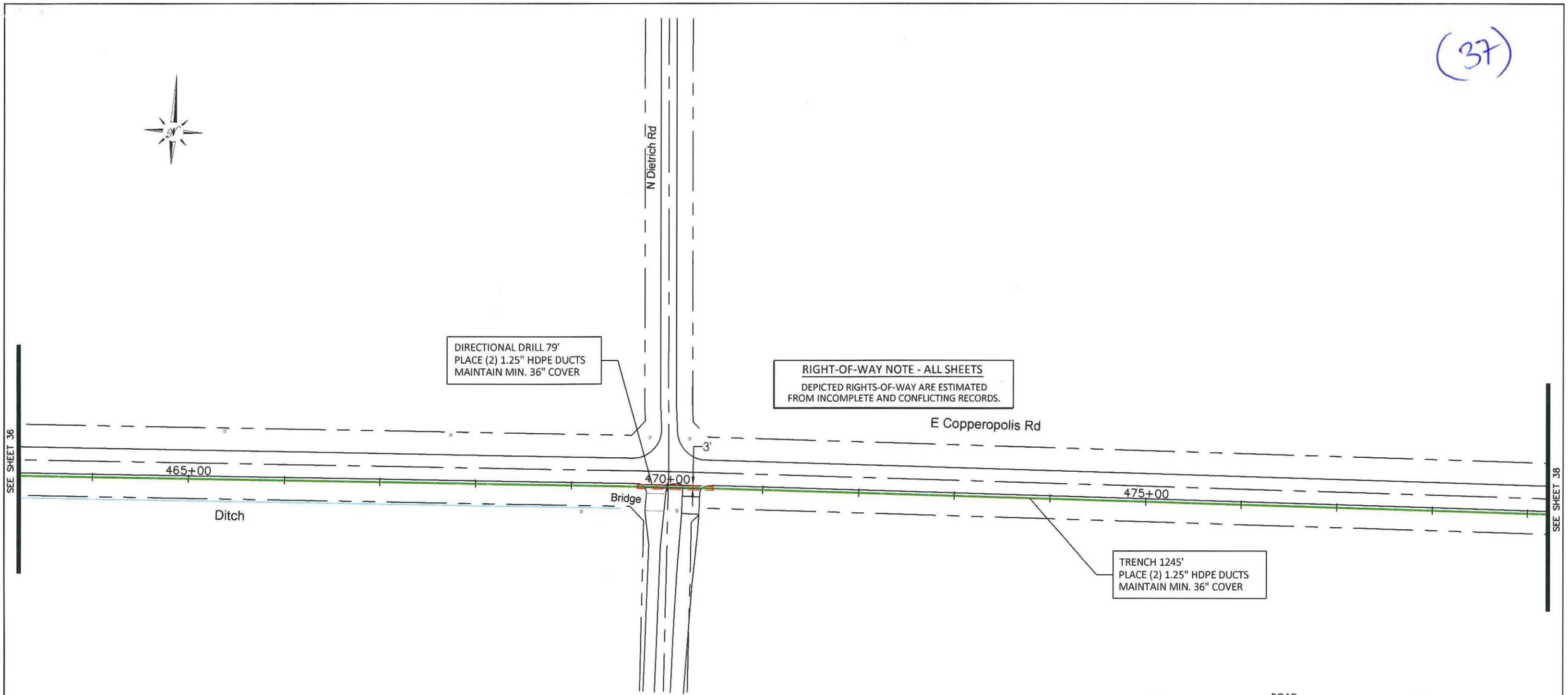
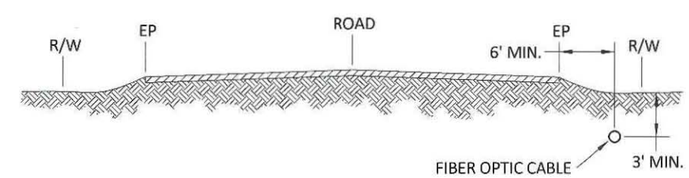
01/11/2012	1"=100'	16 STOCKTON-MILTON	36	50

(37)





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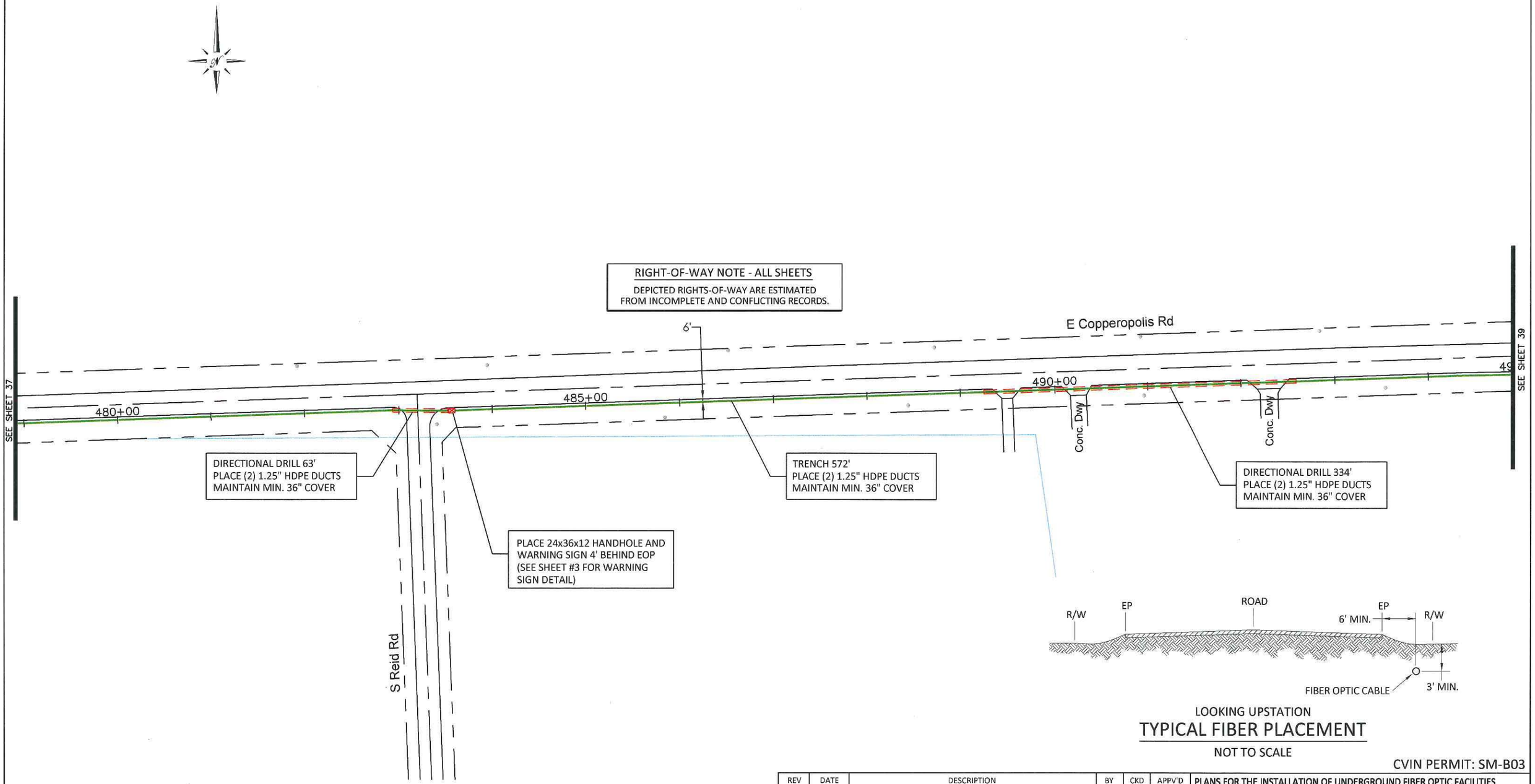
01/11/2012	1"=100'	16 STOCKTON-MILTON	37	50

(38)



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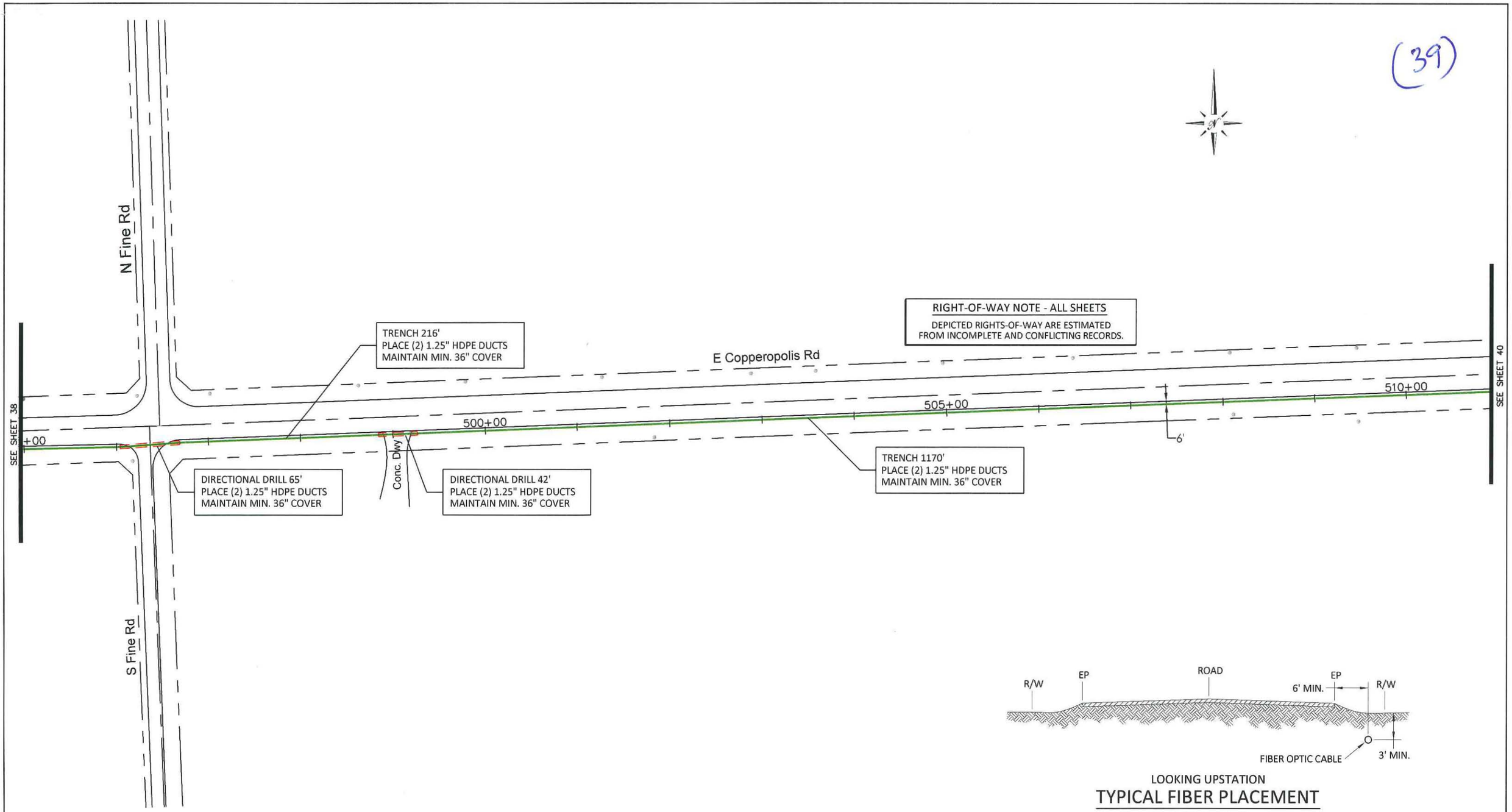
01/11/2012	1"=100'	16 STOCKTON-MILTON	38	50

(39)



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(40)

LOOKING UPSTATION

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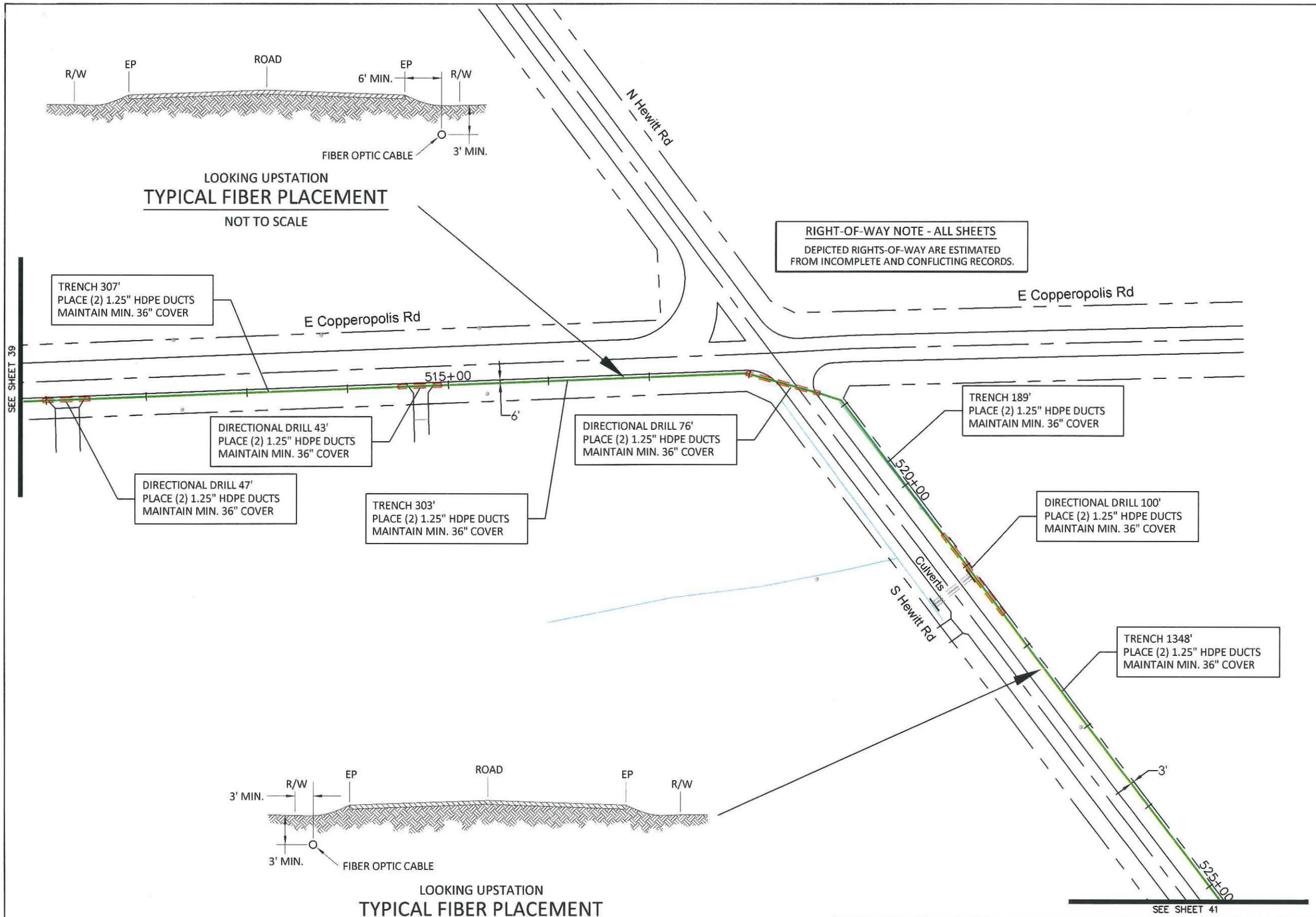

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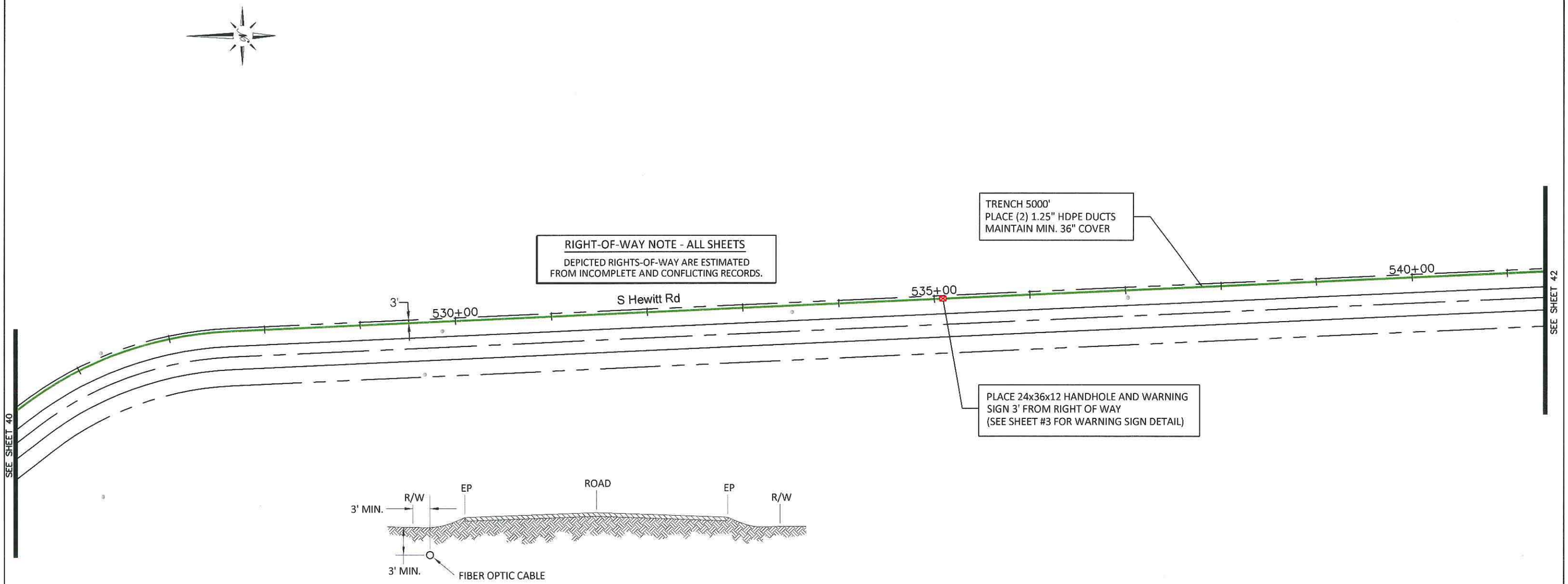
01/11/2012	1"=100'	16 STOCKTON-MILTON	40	50

(41)



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01/11/2012	1"=100'	16 STOCKTON-MILTON	41	50

(42)

RIGHT-OF-WAY NOTE - ALL SHEETS

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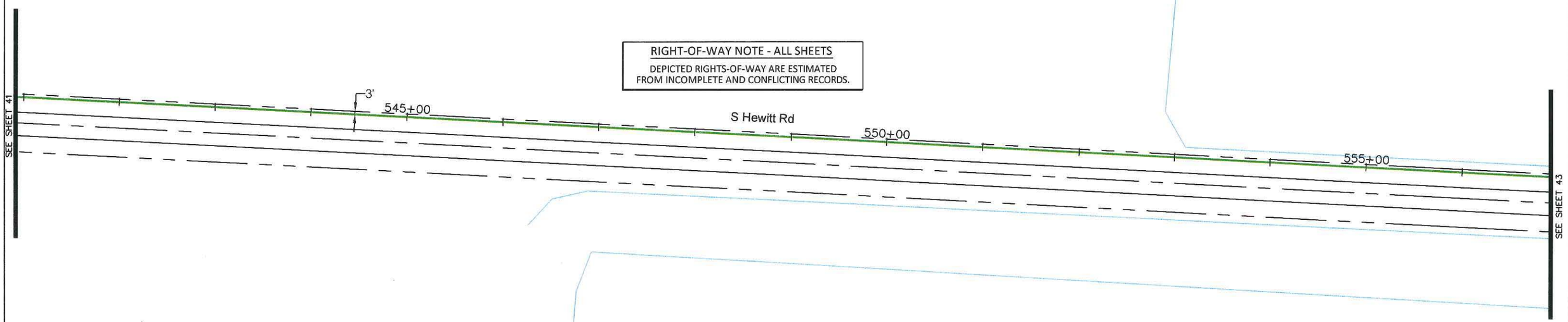

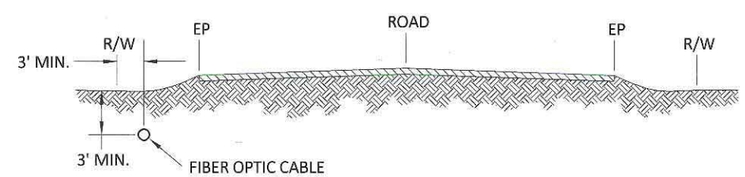

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(43)

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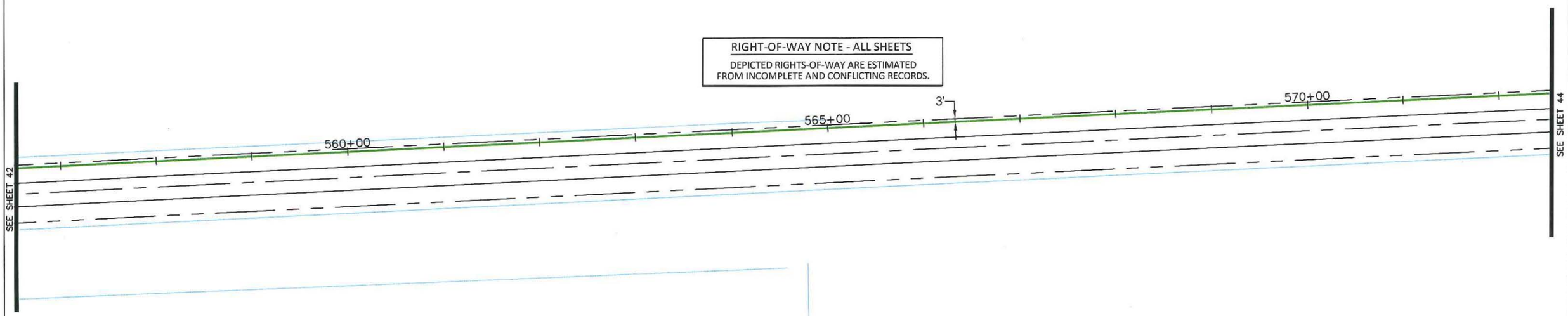

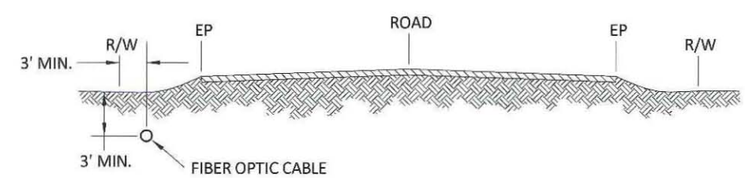

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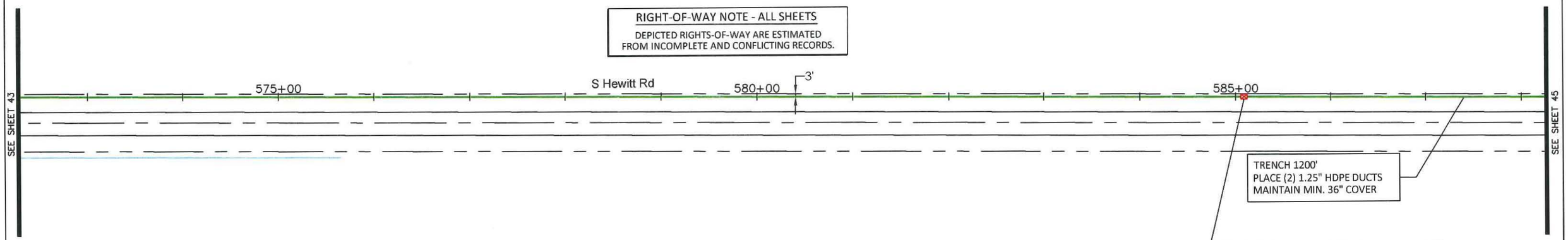
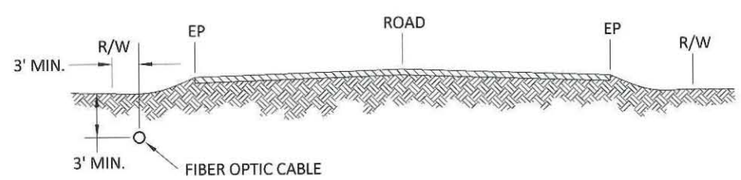
01/11/2012	1"=100'	16 STOCKTON-MILTON	43	50

(44)

RIGHT-OF-WAY NOTE - ALL SHEETS

DEPICTED RIGHTS-OF-WAY ARE ESTIMATED FROM INCOMPLETE AND CONFLICTING RECORDS.





LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

NOT TO SCALE

CVIN PERMIT: SM-B03

REV	DATE	DESCRIPTION	BY	CKD	APPV'D

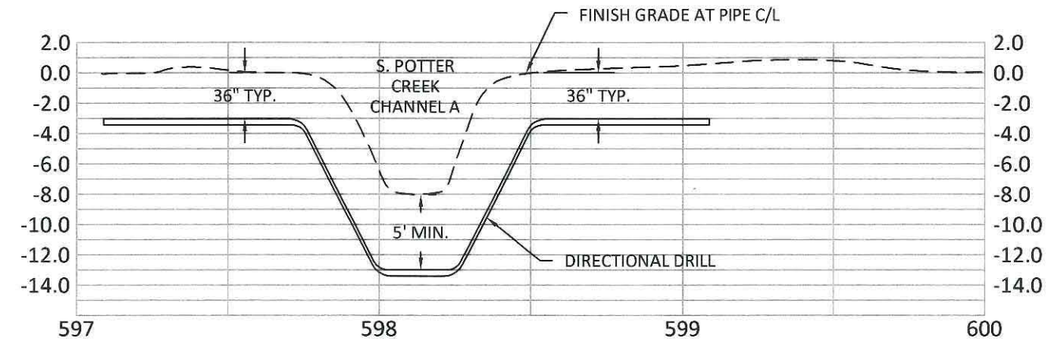
PLANS FOR THE INSTALLATION OF UNDERGROUND FIBER OPTIC FACILITIES

Engineering Associates, Inc.
445 W. 11th St. (Suite B)
Tracy, Ca. 95376
Ph. 209-830-0162
Fax 209-830-8157

CVIN
CENTRAL VALLEY INDEPENDENT NETWORK
855 M Street, Suite 1120, Fresno, CA 93721

DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	44	50

(45)



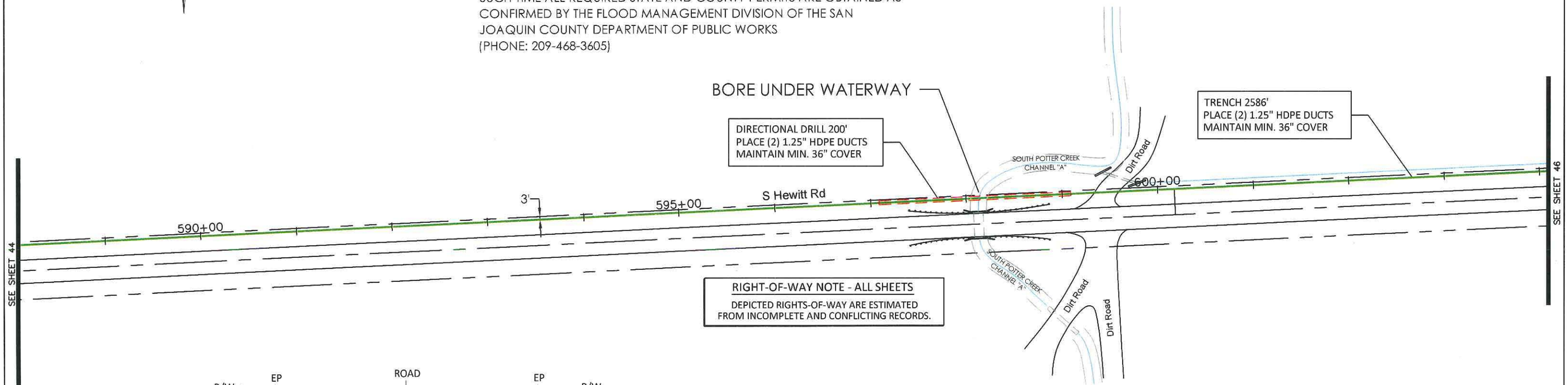
"LOOKING EAST"

BORE PROFILE
DIRECTIONAL DRILL AT S. POTTER CREEK CHANNEL A

SCALE: HOR. 1"=50' ; VERT. 1"=10'

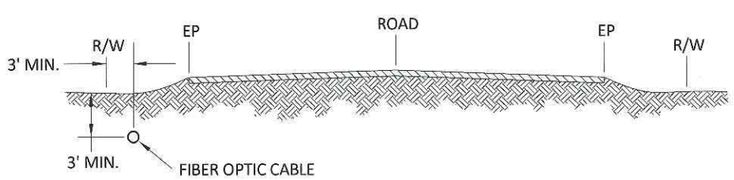
NOTE:

NO WORK SHALL OCCUR WITHIN 30 FEET OF THE TOP OF BANK OR 30 FEET FROM THE LANDSIDE TOE OF THE LEVEE (WHERE A LEVEE EXIST) UNTIL SUCH TIME ALL REQUIRED STATE AND COUNTY PERMITS ARE OBTAINED AS CONFIRMED BY THE FLOOD MANAGEMENT DIVISION OF THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS (PHONE: 209-468-3605)



RIGHT-OF-WAY NOTE - ALL SHEETS

DEPICTED RIGHTS-OF-WAY ARE ESTIMATED FROM INCOMPLETE AND CONFLICTING RECORDS.



LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

NOT TO SCALE

CVIN PERMIT: SM-B03

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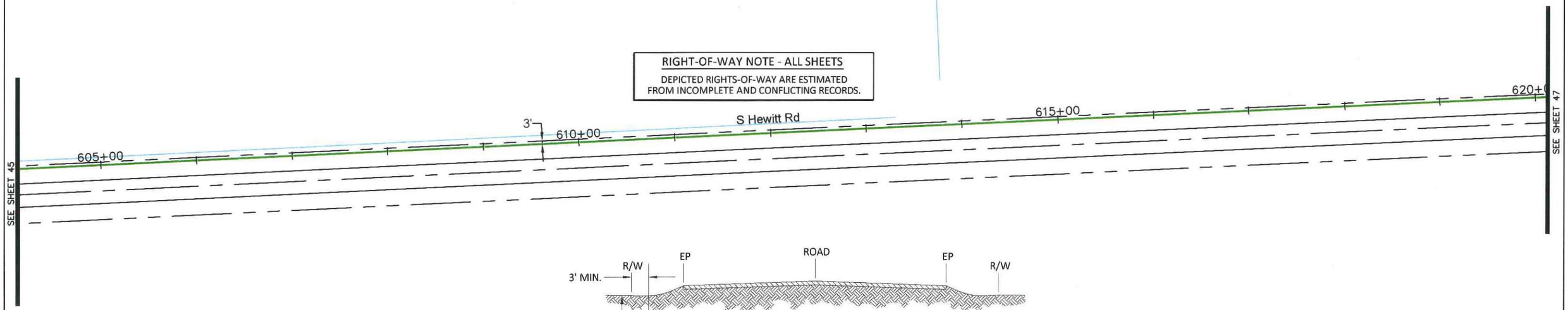
DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	45	50

(46)

RIGHT-OF-WAY NOTE - ALL SHEETS

DEPICTED RIGHTS-OF-WAY ARE ESTIMATED FROM INCOMPLETE AND CONFLICTING RECORDS.



LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

NOT TO SCALE

CVIN PERMIT: SM-B03

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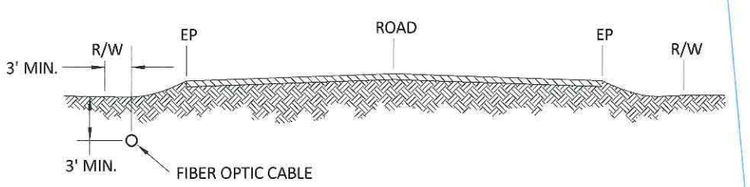
DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	46	50

(47)



LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

NOT TO SCALE

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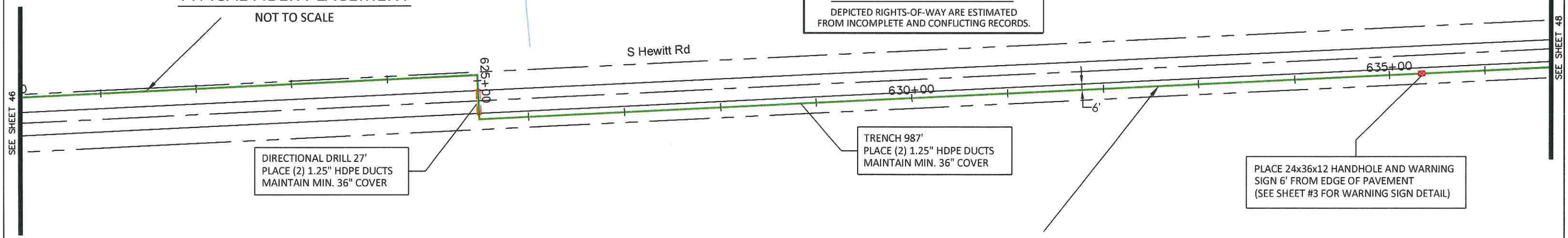

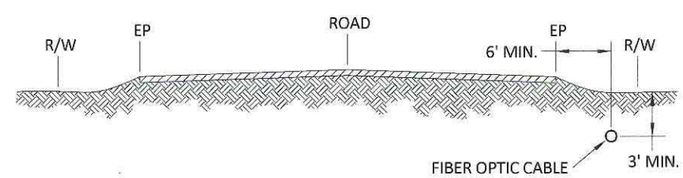

LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

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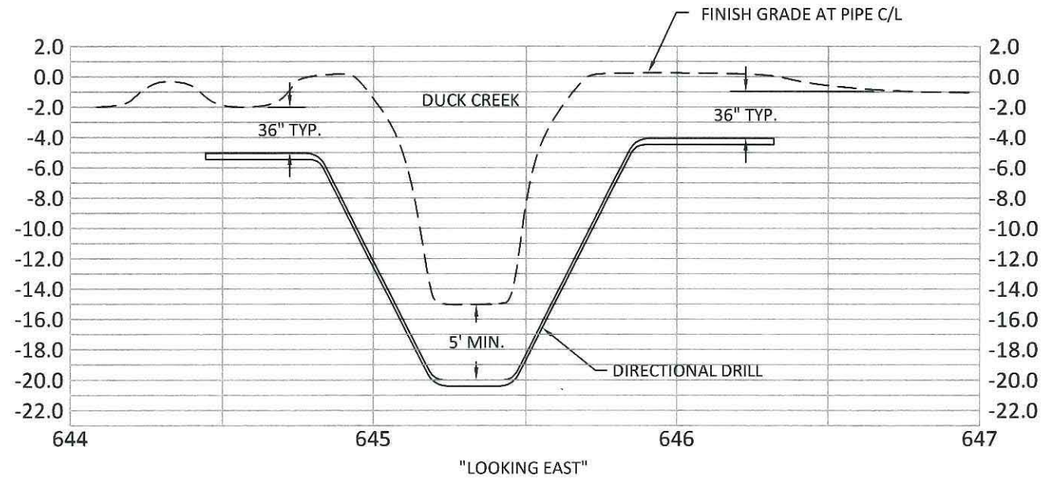
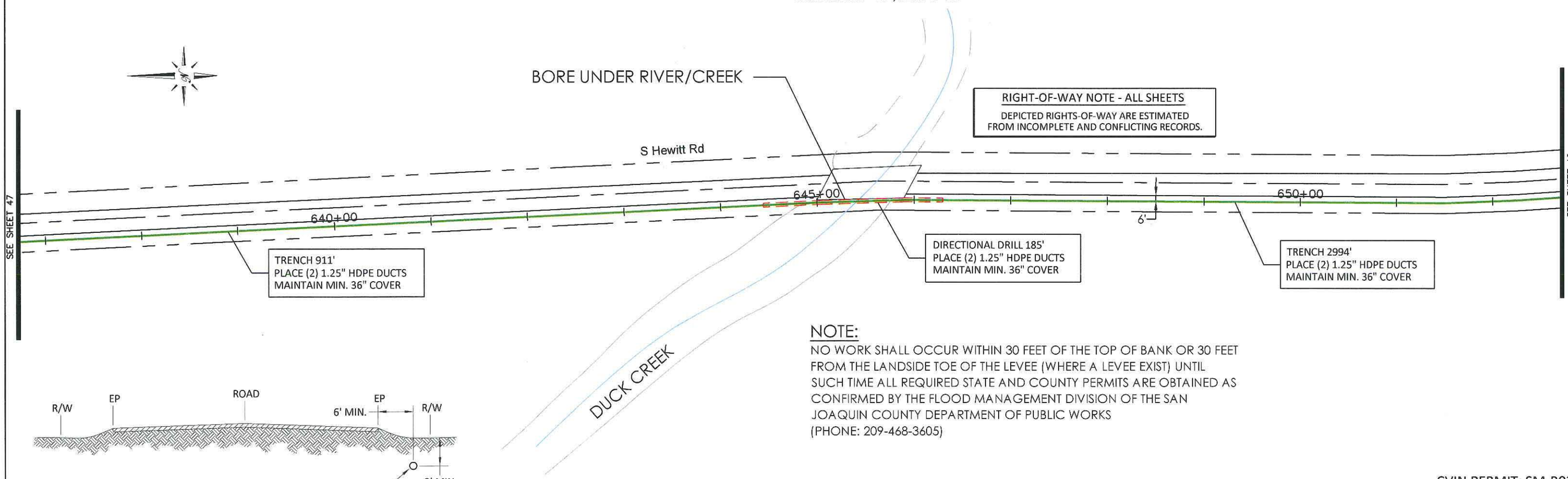
DATE:	SCALE:	SEGMENT:	SHEET:	TOTAL:
01/11/2012	1"=100'	16 STOCKTON-MILTON	47	50

(48)



BORE PROFILE
DIRECTIONAL DRILL AT DUCK CREEK

SCALE: HOR. 1"=50' ; VERT. 1"=10'



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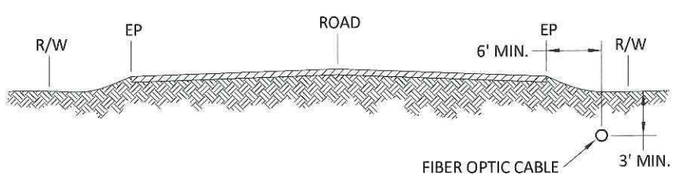

LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

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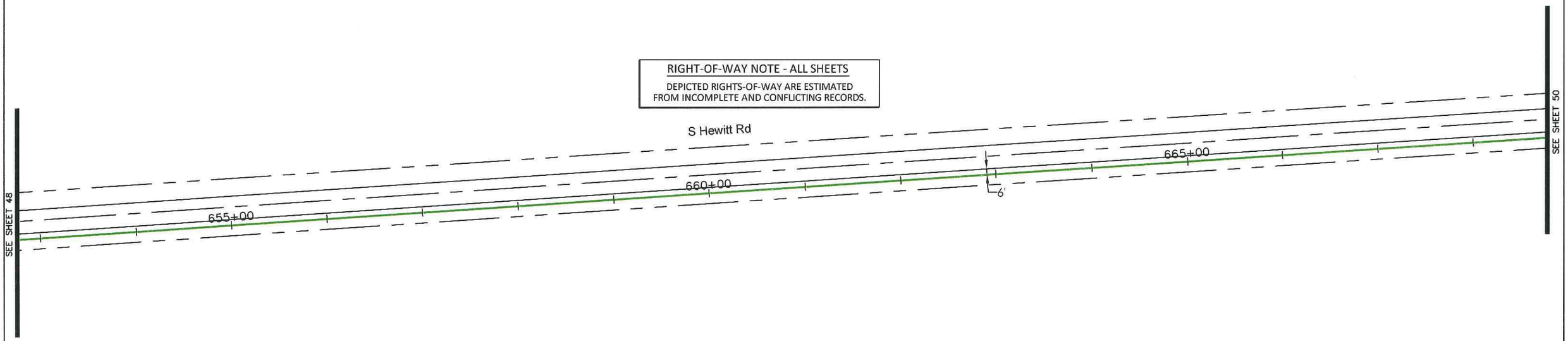
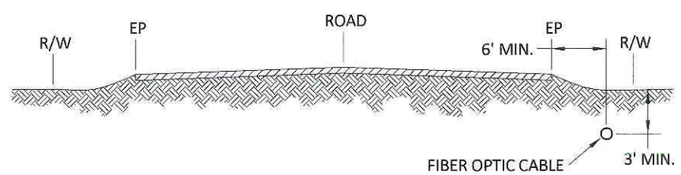
(49)





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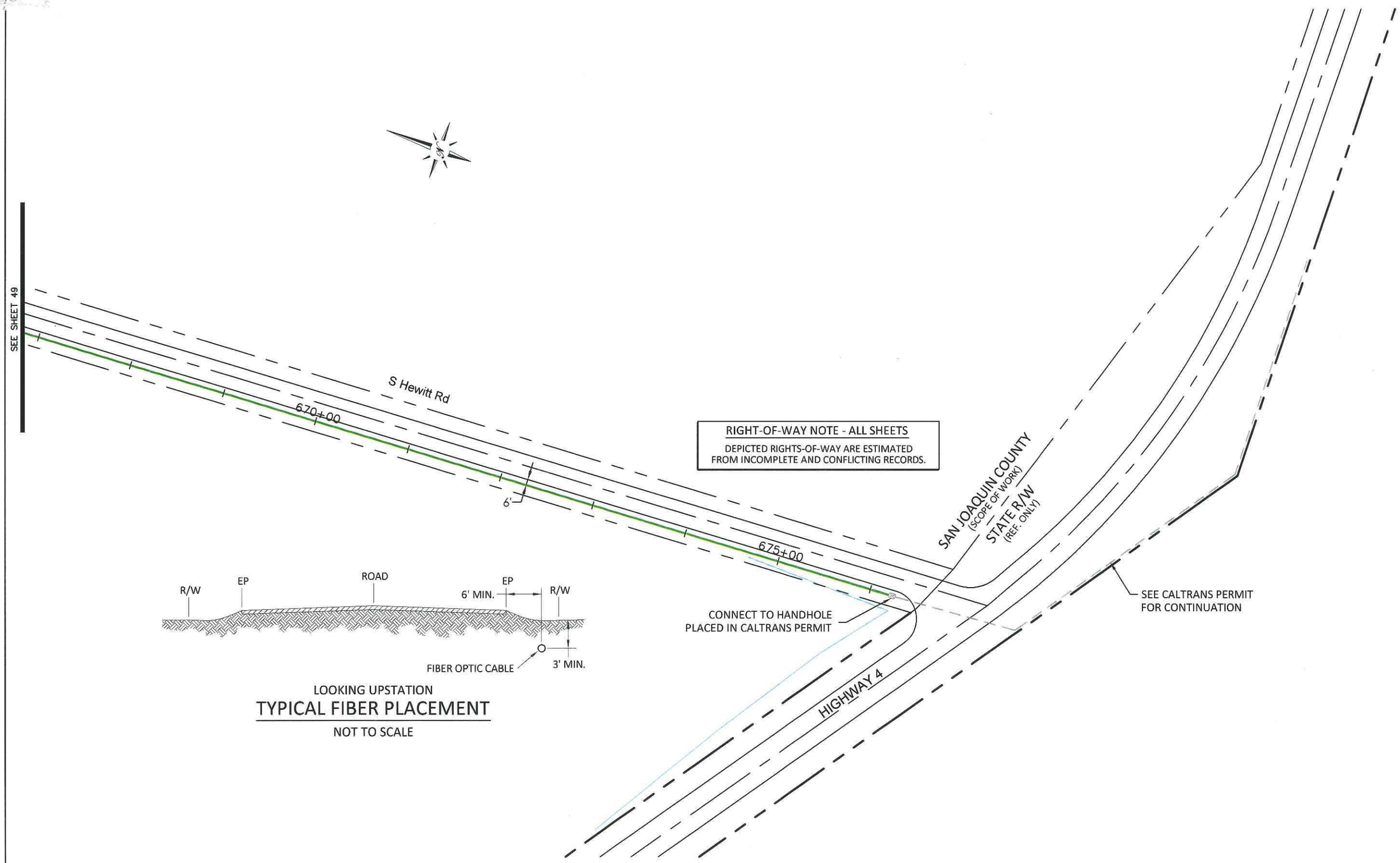
(50)



LOOKING UPSTATION

TYPICAL FIBER PLACEMENT

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