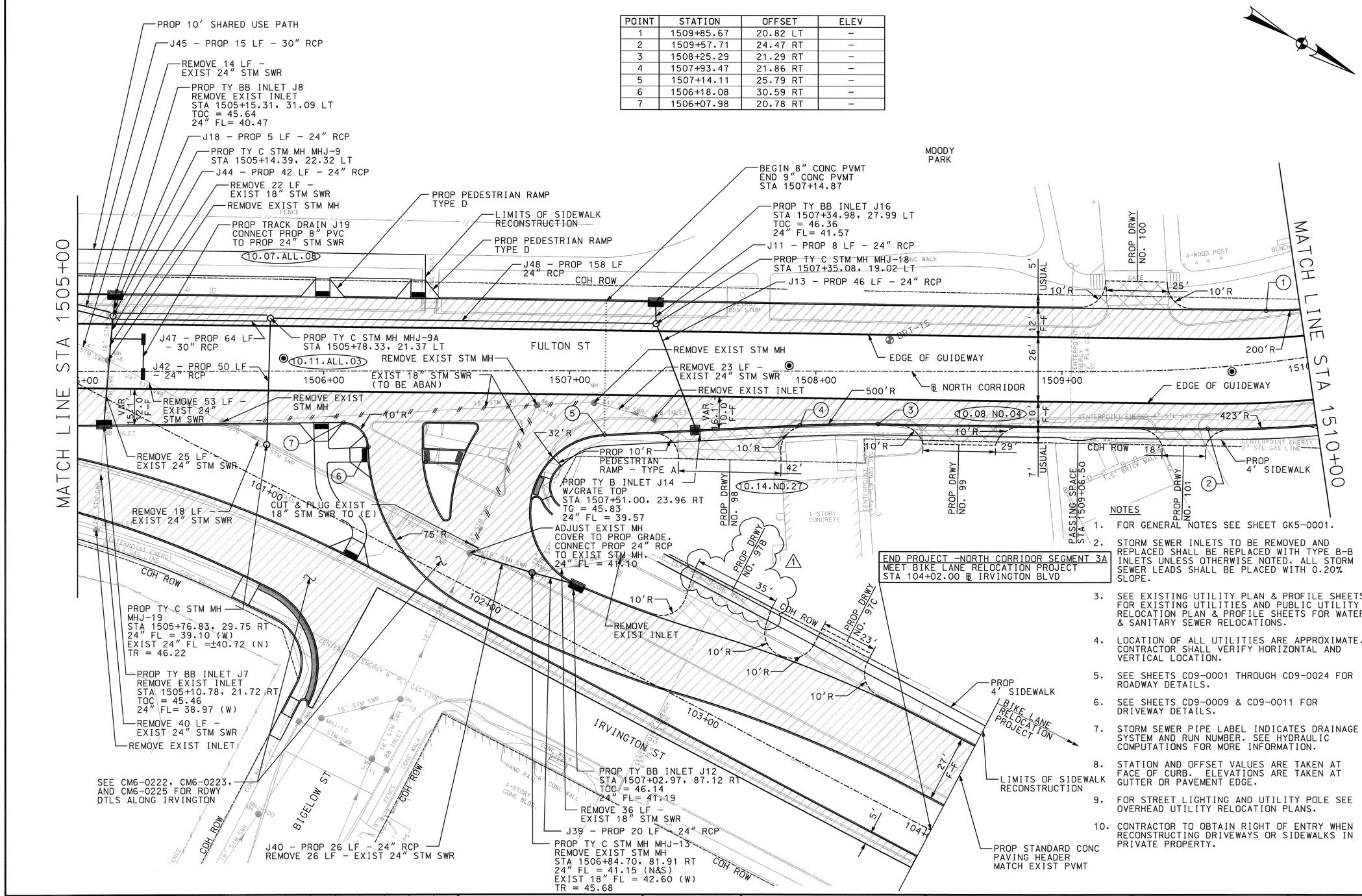
POINT	STATION	OFFSET	ELEV
1	1509+85.67	20.82 LT	–
2	1509+57.71	24.47 RT	–
3	1508+25.29	21.29 RT	–
4	1507+93.47	21.86 RT	–
5	1507+14.11	25.79 RT	–
6	1506+18.08	30.59 RT	–
7	1506+07.98	20.78 RT	–



HORIZ. SCALE (IN FEET) 0 10 20 40

LEGEND

- EXIST COH ROW
- NEW COH ROW
- PROP GUIDEWAY
- PROP CURB
- PROP DRIVEWAY
- EXIST STORM SEWER
- EXIST UTILITY TO BE ABAN
- PROP STORM SEWER
- PROP OCS POLE
- PROP STREET CONST. 9"/8" CONCRETE PVMT.
- PROP DRIVEWAY (SEE CD9-0011)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT.
- PROP PLATFORM
- COH DESIGN VARIANCE

ROADWAY DESIGN

11/09/10

STATE OF TEXAS MICHAEL J. KASPAR 103600 LICENSED PROFESSIONAL ENGINEER

NOTES

1. FOR GENERAL NOTES SEE SHEET GK5-0001.
2. STORM SEWER INLETS TO BE REMOVED AND REPLACED SHALL BE REPLACED WITH TYPE B-B INLETS UNLESS OTHERWISE NOTED. ALL STORM SEWER LEADS SHALL BE PLACED WITH 0.20% SLOPE.
3. SEE EXISTING UTILITY PLAN & PROFILE SHEETS FOR EXISTING UTILITIES AND PUBLIC UTILITY RELOCATION PLAN & PROFILE SHEETS FOR WATER & SANITARY SEWER RELOCATIONS.
4. LOCATION OF ALL UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION.
5. SEE SHEETS CD9-0001 THROUGH CD9-0024 FOR ROADWAY DETAILS.
6. SEE SHEETS CD9-0009 & CD9-0011 FOR DRIVEWAY DETAILS.
7. STORM SEWER PIPE LABEL INDICATES DRAINAGE SYSTEM AND RUN NUMBER. SEE HYDRAULIC COMPUTATIONS FOR MORE INFORMATION.
8. STATION AND OFFSET VALUES ARE TAKEN AT FACE OF CURB. ELEVATIONS ARE TAKEN AT GUTTER OR PAVEMENT EDGE.
9. FOR STREET LIGHTING AND UTILITY POLE SEE OVERHEAD UTILITY RELOCATION PLANS.
10. CONTRACTOR TO OBTAIN RIGHT OF ENTRY WHEN RECONSTRUCTING DRIVEWAYS OR SIDEWALKS IN PRIVATE PROPERTY.

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY – GAS — 12/1/10 DATE

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
CITY OF HOUSTON DWG NO:

46549 CITY DRAWING NUMBER HOUSTON, TEXAS

CONTRACT SHEET No. 84 OF 344

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP
1	08/30/10	ROADWAY PLAN AND PROFILE REVISIONS							

Nathelyne A. Kennedy & Associates
Civil & Structural Consulting Engineers
REGISTRATION # F-357

DRAINAGE DESIGN
STATE OF TEXAS BRANDON NGUYEN 94972 LICENSED PROFESSIONAL ENGINEER 11/10/10

DANNENBAUM
ENGINEERING COMPANY - HOUSTON, LLC
T.B.P.E. FIRM REGISTRATION #8998
3100 WEST ALABAMA HOUSTON, TEXAS 77098 (713) 520-9570

HRT HOUSTON RAPID TRANSIT JV

METRO Solutions
Metropolitan Transit Authority of Harris County, Texas

E. CONLEY DRN BY	1 SEP 2009 DATE
B. NGUYEN DRN CKD BY	1 SEP 2009 DATE
M. MOSS DES BY	1 SEP 2009 DATE
B. NGUYEN DES CKD BY	1 SEP 2009 DATE
B. CONE APPROVED BY	1 SEP 2009 DATE
SCALE: 1" = 20'	

METRO SOLUTIONS NORTH CORRIDOR – SEGMENT 3A

STREET MODIFICATION PLAN
FULTON STREET
STA 1505+00 TO STA 1510+00

CONTRACT NO. 0800120 | DRAWING NO. CM6-0043 | REV. 1

RELEASED FOR CONSTRUCTION 1/12/11

C:\#1120\#4269-03\#C\#04 CADD Files\#DGN\#SEGMENT 3A\#STREET MODIFICATIONS\#msncst043-REV1.dgn 11/9/2010
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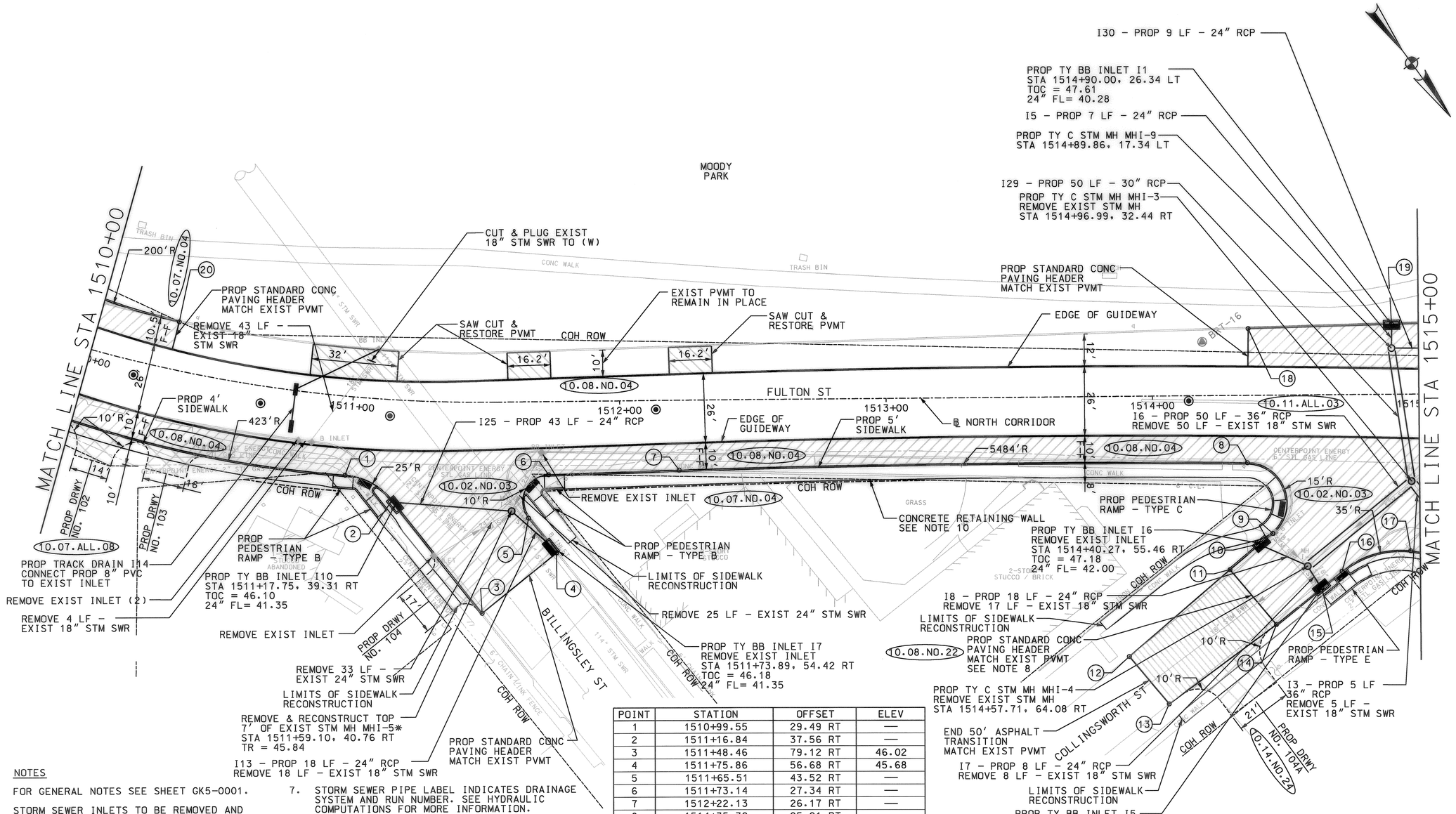

POINT	STATION	OFFSET	ELEV
1	1510+99.55	29.49 RT	—
2	1511+16.84	37.56 RT	—
3	1511+48.46	79.12 RT	46.02
4	1511+75.86	56.68 RT	45.68
5	1511+65.51	43.52 RT	—
6	1511+73.14	27.34 RT	—
7	1512+22.13	26.17 RT	—
8	1514+35.39	25.21 RT	—
9	1514+44.74	51.76 RT	—
10	1514+40.27	55.46 RT	46.68
11	1514+28.52	65.21 RT	46.73
12	1513+90.45	97.63 RT	48.20
13	1514+05.27	115.49 RT	48.12
14	1514+45.76	86.00 RT	46.77
15	1514+62.91	72.25 RT	46.70
16	1514+70.58	66.12 RT	—
17	1514+96.42	58.66 RT	—
18	1514+36.14	25.08 LT	—
19	1514+90.00	26.34 LT	—
20	1510+30.07	18.04 LT	—

NOTES

1. FOR GENERAL NOTES SEE SHEET GK5-0001.
2. STORM SEWER INLETS TO BE REMOVED AND REPLACED SHALL BE REPLACED WITH TYPE B-B INLETS UNLESS OTHERWISE NOTED. ALL STORM SEWER LEADS SHALL BE PLACED WITH 0.20% SLOPE.
3. SEE EXISTING UTILITY PLAN & PROFILE SHEETS FOR EXISTING UTILITIES AND PUBLIC UTILITY RELOCATION PLAN & PROFILE SHEETS FOR WATER & SANITARY SEWER RELOCATIONS.
4. LOCATION OF ALL UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION.
5. SEE SHEETS CD9-0001 THROUGH CD9-0024 FOR ROADWAY DETAILS.
6. SEE SHEETS CD9-0009 & CD9-0011 FOR DRIVEWAY DETAILS.
7. STORM SEWER PIPE LABEL INDICATES DRAINAGE SYSTEM AND RUN NUMBER. SEE HYDRAULIC COMPUTATIONS FOR MORE INFORMATION.
8. SEE SHEET CD9-0003 FOR CURB AND ASPHALT TRANSITION DETAILS.
9. STATION AND OFFSET VALUES ARE TAKEN AT FACE OF CURB. ELEVATIONS ARE TAKEN AT GUTTER OR PAVEMENT EDGE.
10. SEE SHEETS CM6-0227 THROUGH CM6-0230 FOR CONCRETE WALL DETAILS.
11. SEE SHEET CD9-0007 AND CD9-0008 FOR LIMITS OF CUT & RESTORE PAVEMENT.
12. FOR STREET LIGHTING AND UTILITY POLE SEE OVERHEAD UTILITY RELOCATION PLANS.
13. CONTRACTOR TO OBTAIN RIGHT OF ENTRY WHEN RECONSTRUCTING DRIVEWAYS OR SIDEWALKS IN PRIVATE PROPERTY.

* CONTRACTOR SHALL REMOVE ALL THE DEBRIS AT THE BOTTOM OF THIS MANHOLE ONCE THE MANHOLE RECONSTRUCTION IS COMPLETED.

ROADWAY DESIGN

STATE OF TEXAS — MICHAEL C. MOSS — 91083 — LICENSED PROFESSIONAL ENGINEER

11/18/09

PRIVATE UTILITY LINES SHOWN

11/18/09

CENTER POINT ENERGY - GAS — DATE

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STREET & BRIDGE ENGINEERING

12-08-2009

WAYNE GAUDIN P.E. - SR. P.M.

CITY OF HOUSTON DWG NO:

PUBLIC WORKS AND ENGINEERING — 46549 — HOUSTON, TEXAS

CONTRACT SHEET No. 86 OF 344

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP

Nathelyne A. Kennedy & Associates
Civil & Structural Consulting Engineers
REGISTRATION # F-357

STATE OF TEXAS — BRANDON NGUYEN — 94972 — LICENSED PROFESSIONAL ENGINEER

11/17/09

DANNENBAUM
ENGINEERING COMPANY - HOUSTON, LLC
T.B.P.E. FIRM REGISTRATION #8998
3100 WEST ALABAMA HOUSTON, TEXAS 77098 (713) 520-9570

HRT — HOUSTON RAPID TRANSIT JV

METRO Solutions — Metropolitan Transit Authority of Harris County, Texas

E. CONLEY	1 SEP 2009
DRN BY	DATE
B. NGUYEN	1 SEP 2009
DRN CKD BY	DATE
M. MOSS	1 SEP 2009
DES BY	DATE
B. NGUYEN	1 SEP 2009
DES CKD BY	DATE
B. CONE	1 SEP 2009
APPROVED BY	DATE

SCALE: 1" = 20'

METRO SOLUTIONS NORTH CORRIDOR - 3A

STREET MODIFICATION PLAN
FULTON STREET
STA 1510+00 TO STA 1515+00

CONTRACT NO. 0800120 | DRAWING NO. CM6-0045 | REV.

RELEASED FOR CONSTRUCTION DEC 30 2009

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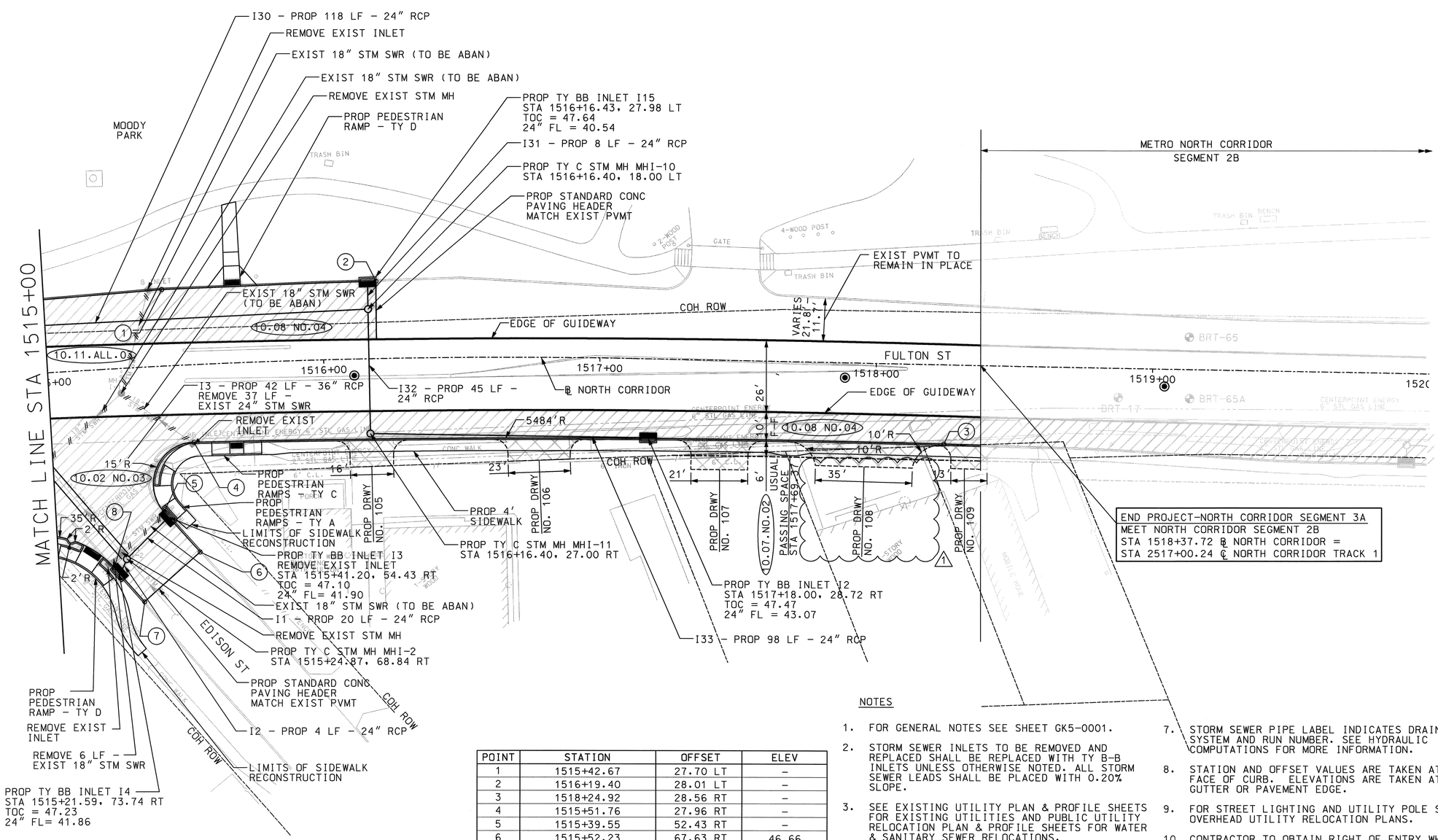
11/17/2009



HORIZ. SCALE (IN FEET) 0 10 20 40

LEGEND

- EXIST COH ROW
- NEW COH ROW
- PROP GUIDEWAY
- PROP CURB
- PROP DRIVEWAY
- EXIST STORM SEWER
- EXIST UTILITY TO BE ABAN
- PROP STORM SEWER
- PROP OCS POLE
- PROP STREET CONST. 8" CONCRETE PVMT.
- PROP DRIVEWAY (SEE CD9-0011)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT.
- PROP PLATFORM
- COH DESIGN VARIANCE

ROADWAY DESIGN

STATE OF TEXAS MICHAEL J. KASPAR 103600 LICENSED PROFESSIONAL ENGINEER 11/09/10

POINT	STATION	OFFSET	ELEV
1	1515+42.67	27.70 LT	–
2	1516+19.40	28.01 LT	–
3	1518+24.92	28.56 RT	–
4	1515+51.76	27.96 RT	–
5	1515+39.55	52.43 RT	–
6	1515+52.23	67.63 RT	46.66
7	1515+30.57	84.67 RT	46.79
8	1515+19.95	71.73 RT	–

NOTES

1. FOR GENERAL NOTES SEE SHEET GK5-0001.
2. STORM SEWER INLETS TO BE REMOVED AND REPLACED SHALL BE REPLACED WITH TY B-B INLETS UNLESS OTHERWISE NOTED. ALL STORM SEWER LEADS SHALL BE PLACED WITH 0.20% SLOPE.
3. SEE EXISTING UTILITY PLAN & PROFILE SHEETS FOR EXISTING UTILITIES AND PUBLIC UTILITY RELOCATION PLAN & PROFILE SHEETS FOR WATER & SANITARY SEWER RELOCATIONS.
4. LOCATION OF ALL UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION.
5. SEE SHEETS CD9-0001 THROUGH CD9-0008 FOR ROADWAY DETAILS.
6. SEE SHEETS CD9-0009 & CD9-0024 FOR DRIVEWAY DETAILS.
7. STORM SEWER PIPE LABEL INDICATES DRAINAGE SYSTEM AND RUN NUMBER. SEE HYDRAULIC COMPUTATIONS FOR MORE INFORMATION.
8. STATION AND OFFSET VALUES ARE TAKEN AT FACE OF CURB. ELEVATIONS ARE TAKEN AT GUTTER OR PAVEMENT EDGE.
9. FOR STREET LIGHTING AND UTILITY POLE SEE OVERHEAD UTILITY RELOCATION PLANS.
10. CONTRACTOR TO OBTAIN RIGHT OF ENTRY WHEN RECONSTRUCTING DRIVEWAYS OR SIDEWALKS IN PRIVATE PROPERTY.

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY - GAS — DATE 12/1/10

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

CITY OF HOUSTON DWG NO:

RECEIVED AND FILED 46549 CITY DRAWING NUMBER HOUSTON, TEXAS

CONTRACT SHEET No. 88 OF 344

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP
1	08/30/10	ROADWAY PLAN AND PROFILE REVISIONS							

Nathelyne A. Kennedy & Associates
Civil & Structural Consulting Engineers
REGISTRATION # F-357

DRAINAGE DESIGN
STATE OF TEXAS BRANDON NGUYEN 94972 LICENSED PROFESSIONAL ENGINEER 11/09/10

DANNENBAUM
ENGINEERING COMPANY - HOUSTON, LLC
T.B.P.E. FIRM REGISTRATION #8998
3100 WEST ALABAMA HOUSTON, TEXAS 77098 (713) 520-9570

HRT HOUSTON RAPID TRANSIT JV

METRO Solutions
Metropolitan Transit Authority of Harris County, Texas

E. CONLEY	1 SEP 2009
DRN BY	DATE
B. NGUYEN	1 SEP 2009
DRN CKD BY	DATE
M. MOSS	1 SEP 2009
DES BY	DATE
B. NGUYEN	1 SEP 2009
DES CKD BY	DATE
B. CONE	1 SEP 2009
APPROVED BY	DATE
SCALE: 1" = 20'	

METRO SOLUTIONS NORTH CORRIDOR – SEGMENT 3A

STREET MODIFICATION PLAN
FULTON STREET
STA 1515+00 TO END PROJECT

CONTRACT NO. 0800120 DRAWING NO. CM6-0047 REV. 1

RELEASED FOR CONSTRUCTION 1/12/11

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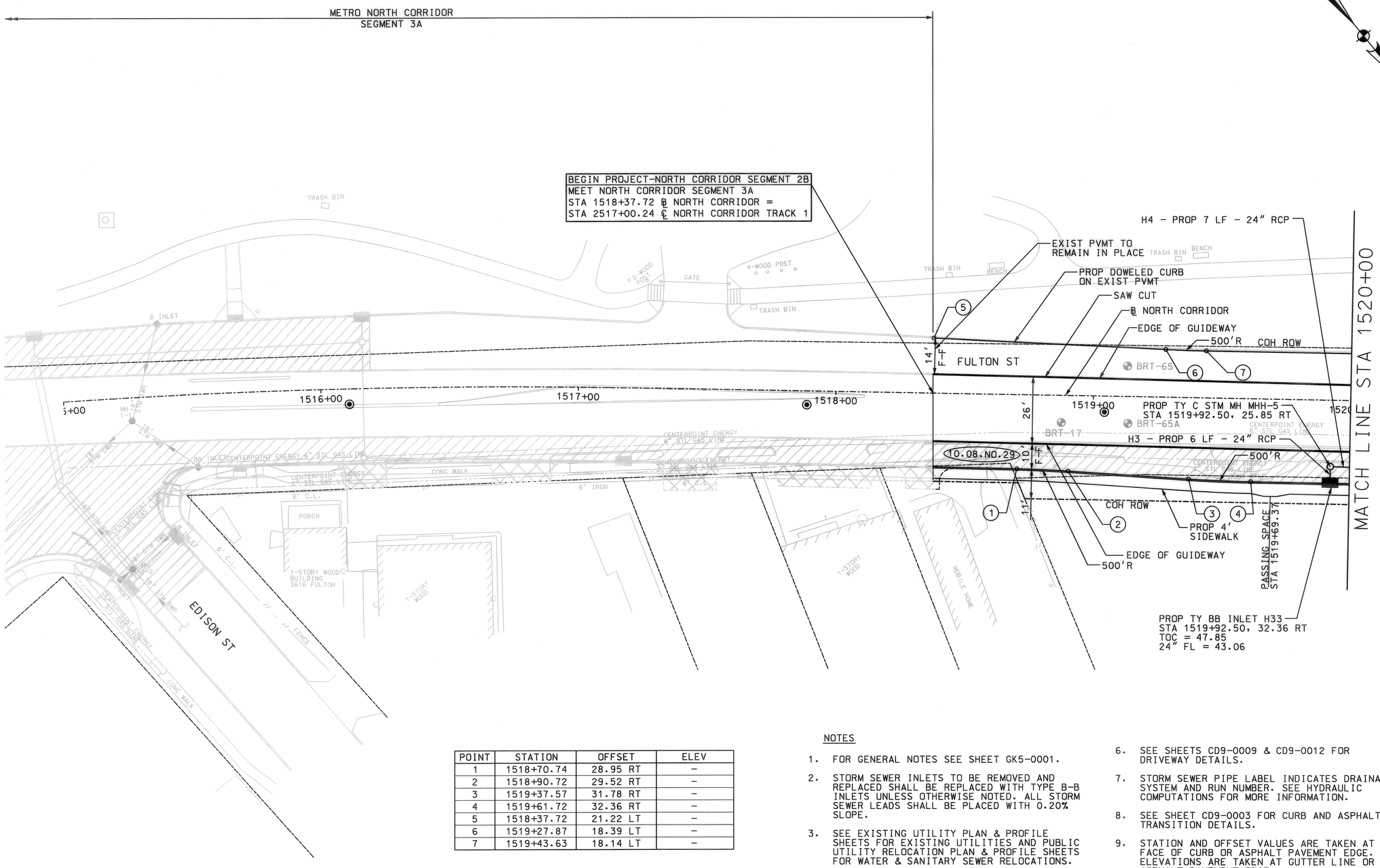

HORIZ. SCALE (IN FEET) 0 10 20 40

LEGEND

- EXIST COH ROW
- NEW COH ROW
- PROP GUIDEWAY
- PROP CURB
- PROP DRIVEWAY
- EXIST STORM SEWER
- EXIST UTILITY TO BE ABAN
- PROP STORM SEWER
- PROP OCS POLE
- PROP STREET CONST. 8" CONCRETE PVMT
- PROP DRIVEWAY (SEE CD9-0012)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT W/ 8" CONCRETE PVMT
- PROP PLATFORM
- COH DESIGN VARIANCE

POINT	STATION	OFFSET	ELEV
1	1518+70.74	28.95 RT	–
2	1518+90.72	29.52 RT	–
3	1519+37.57	31.78 RT	–
4	1519+61.72	32.36 RT	–
5	1518+37.72	21.22 LT	–
6	1519+27.87	18.39 LT	–
7	1519+43.63	18.14 LT	–

NOTES

1. FOR GENERAL NOTES SEE SHEET GK5-0001.
2. STORM SEWER INLETS TO BE REMOVED AND REPLACED SHALL BE REPLACED WITH TYPE B-B INLETS UNLESS OTHERWISE NOTED. ALL STORM SEWER LEADS SHALL BE PLACED WITH 0.20% SLOPE.
3. SEE EXISTING UTILITY PLAN & PROFILE SHEETS FOR EXISTING UTILITIES AND PUBLIC UTILITY RELOCATION PLAN & PROFILE SHEETS FOR WATER & SANITARY SEWER RELOCATIONS.
4. LOCATION OF ALL UTILITIES ARE APPROXIMATE. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION.
5. SEE SHEETS CD9-0001 THROUGH CD9-0024 FOR ROADWAY DETAILS.
6. SEE SHEETS CD9-0009 & CD9-0012 FOR DRIVEWAY DETAILS.
7. STORM SEWER PIPE LABEL INDICATES DRAINAGE SYSTEM AND RUN NUMBER. SEE HYDRAULIC COMPUTATIONS FOR MORE INFORMATION.
8. SEE SHEET CD9-0003 FOR CURB AND ASPHALT TRANSITION DETAILS.
9. STATION AND OFFSET VALUES ARE TAKEN AT FACE OF CURB OR ASPHALT PAVEMENT EDGE. ELEVATIONS ARE TAKEN AT GUTTER LINE OR ASPHALT PAVEMENT EDGE.
10. FOR STREET LIGHTING AND UTILITY POLE SEE OVERHEAD UTILITY RELOCATION PLANS.
11. METRO OR ITS AGENTS TO OBTAIN RIGHT OF ENTRY WHEN RECONSTRUCTING DRIVEWAYS OR SIDEWALKS IN PRIVATE PROPERTY.

ROADWAY DESIGN

STATE OF TEXAS
MICHAEL C. MOSS
91083
LICENSED
PROFESSIONAL ENGINEER
2/24/10

PRIVATE UTILITY LINES SHOWN

2/25/10
CENTER POINT ENERGY - GAS DATE

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

CITY OF HOUSTON DWG NO:

ACCEPTED AND FILED
46882
CITY DRAWING NUMBER
HOUSTON, TEXAS

CONTRACT SHEET No. 79 OF 334

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP

Nathelyne A. Kennedy & Associates
Civil & Structural Consulting Engineers
REGISTRATION # F-357

STATE OF TEXAS
BRANDON NGUYEN
94972
LICENSED
PROFESSIONAL ENGINEER
2/24/10

DANNENBAUM
ENGINEERING COMPANY - HOUSTON, LLC
T.B.P.E. FIRM REGISTRATION #8998
3100 WEST ALABAMA HOUSTON, TEXAS 77098 (713) 520-9570

HRT
HOUSTON RAPID TRANSIT JV

METRO Solutions
Metropolitan Transit Authority of Harris County, Texas

E. CONLEY DRN BY	19 FEB 2010 DATE
B. NGUYEN DRN CKD BY	19 FEB 2010 DATE
M. MOSS DES BY	19 FEB 2010 DATE
B. NGUYEN DES CKD BY	19 FEB 2010 DATE
B. CONE APPROVED BY	19 FEB 2010 DATE

SCALE: 1" = 20'

METRO SOLUTIONS NORTH CORRIDOR – SEGMENT 2B

STREET MODIFICATION PLAN
FULTON STREET
BEGIN PROJECT TO STA 1520+00

CONTRACT NO. 0800120 | DRAWING NO. CM6-0047 | REV.

RELEASED FOR CONSTRUCTION APR 07 2010

g:#1120#4269-03#nc#04 cadd files#dgn#segment 2b#STREET MODIFICATIONS#msncst047.dgn
2/24/2010