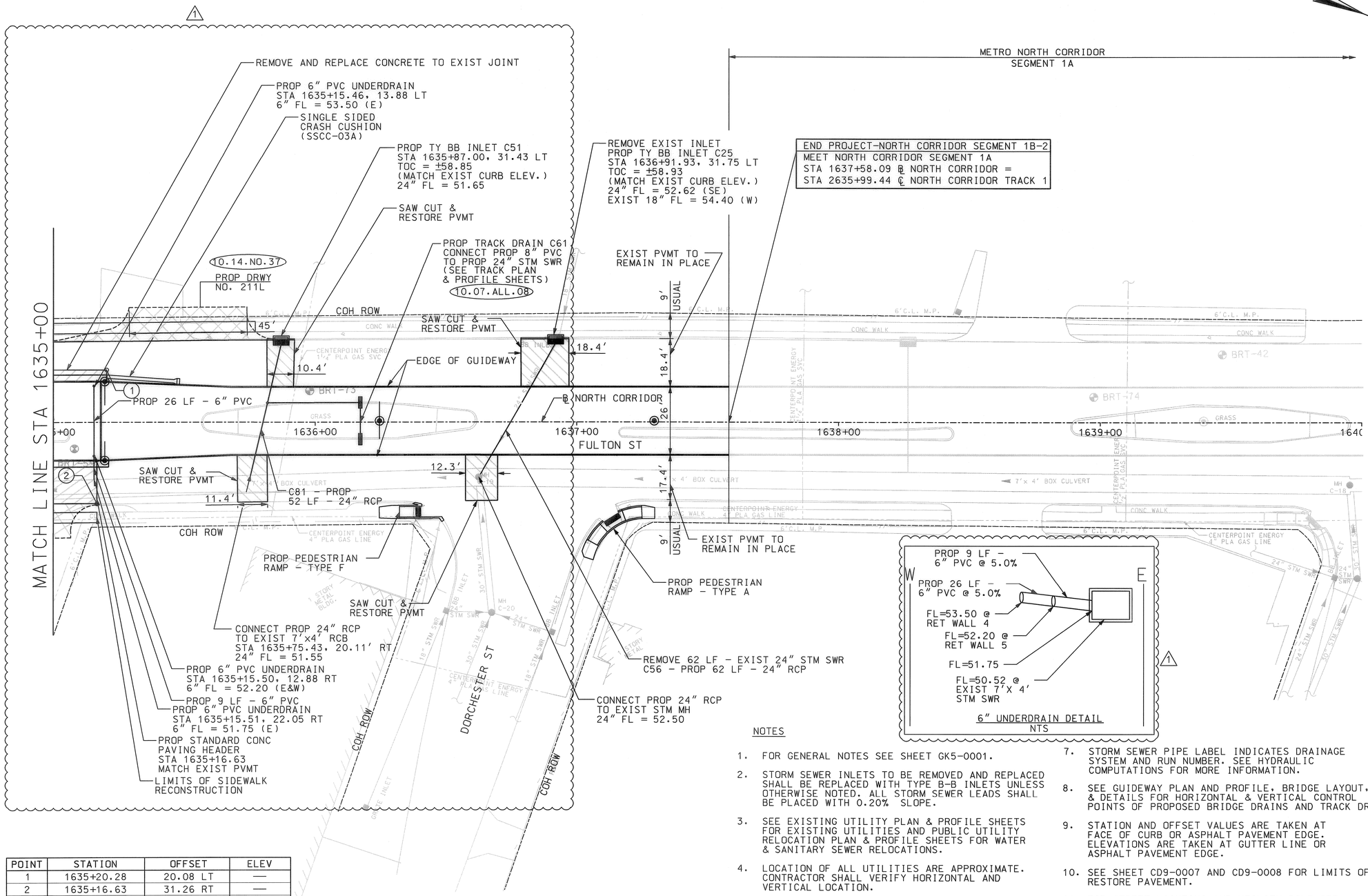


HORIZ. SCALE (IN FEET) 0 10 20 40

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" CONCRETE PVMT
- PROP DRIVEWAY (SEE CD9-0014)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT W/ 9" CONCRETE PVMT
- PROP PLATFORM
- COH DESIGN VARIANCE

POINT	STATION	OFFSET	ELEV
1	1635+20.28	20.08 LT	—
2	1635+16.63	31.26 RT	—
3			

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 CD9-0031 FOR ROADWAY DETAILS.
6. SEE SHEETS CD9-0009 & CD9-0014 FOR DRIVEWAY DETAILS.
7. STORM SEWER PIPE LABEL INDICATES DRAINAGE SYSTEM AND RUN NUMBER. SEE HYDRAULIC COMPUTATIONS FOR MORE INFORMATION.
8. SEE GUIDEWAY PLAN AND PROFILE, BRIDGE LAYOUT, & DETAILS FOR HORIZONTAL & VERTICAL CONTROL POINTS OF PROPOSED BRIDGE DRAINS AND TRACK DRAINS.
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. SEE SHEET CD9-0007 AND CD9-0008 FOR LIMITS OF CUT & RESTORE PAVEMENT.
11. FOR STREET LIGHTING AND UTILITY POLE SEE OVERHEAD UTILITY RELOCATION PLANS.
12. METRO OR ITS AGENTS TO OBTAIN RIGHT OF ENTRY WHEN RECONSTRUCTING DRIVEWAYS OR SIDEWALKS IN PRIVATE PROPERTY.

ROADWAY DESIGN

STATE OF TEXAS — MICHAEL J. KASPAR — 103600 — LICENSED PROFESSIONAL ENGINEER — 04/04/11

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY - GAS — DATE 4/7/11

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

CITY OF HOUSTON DWG NO:

PUBLIC WORKS AND ENGINEERING — ACCEPTED AND FILED — 473684 — CITY DRAWING NUMBER — HOUSTON, TEXAS

CONTRACT SHEET No. 114 OF 364

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP
1	11/01/10	ROADWAY PLAN REVISIONS		J	✓	✓	MOL		DJ

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

STATE OF TEXAS — BRANDON NGUYEN — 94972 — LICENSED PROFESSIONAL ENGINEER — 4/8/11

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	13 OCT 2009
DRN BY	DATE
B. NGUYEN	13 OCT 2009
DRN CKD BY	DATE
M. MOSS	13 OCT 2009
DES BY	DATE
B. NGUYEN	13 OCT 2009
DES CKD BY	DATE
B. CONE	13 OCT 2009
APPROVED BY	DATE

SCALE: 1" = 20'

METRO SOLUTIONS NORTH CORRIDOR - SEGMENT 1B

STREET MODIFICATION PLAN
FULTON STREET
STA 1635+00 TO END PROJECT

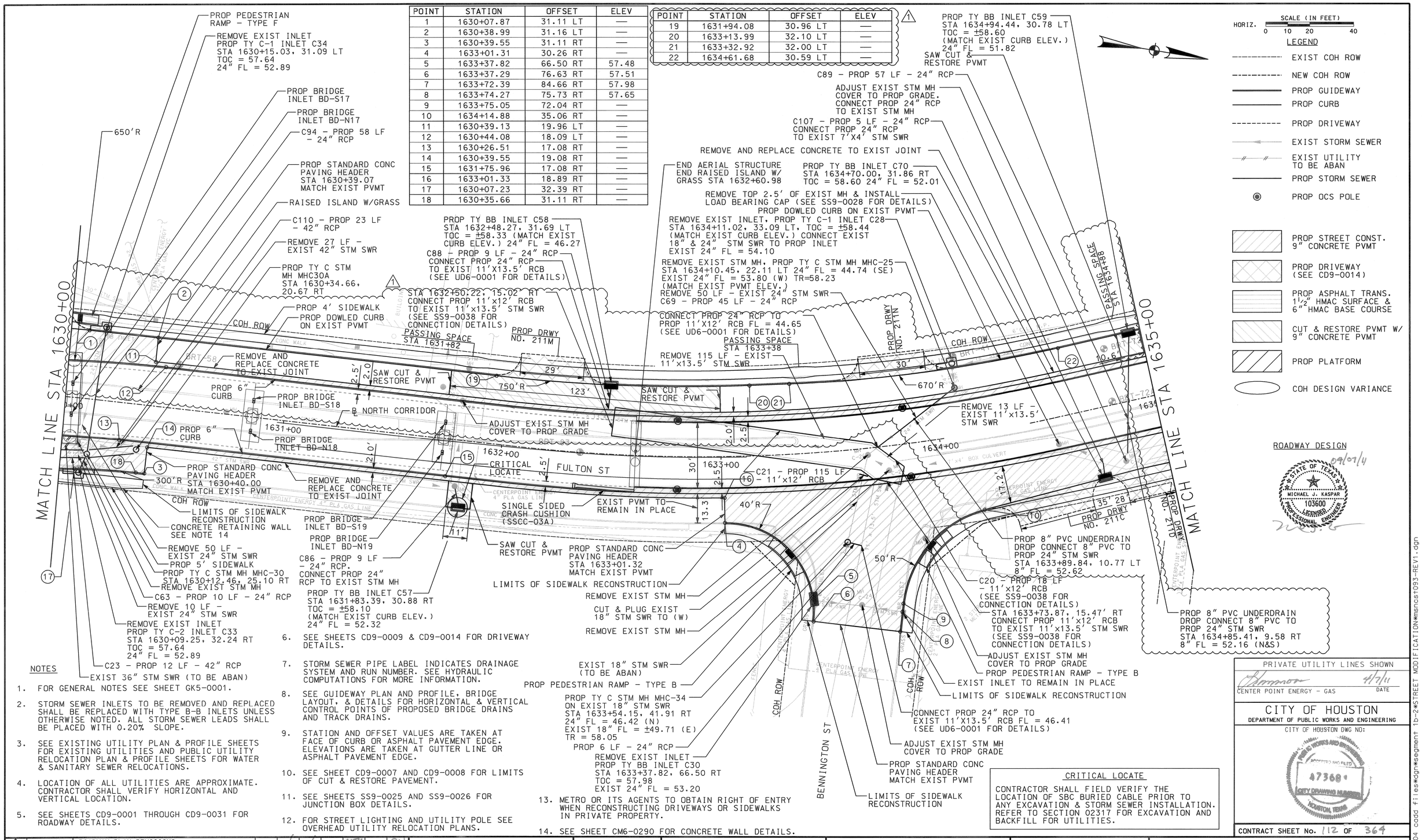
CONTRACT NO. 0800120 | DRAWING NO. CM6-0095 | REV. 1

RELEASED FOR CONSTRUCTION 5/9/2011

g:\1120\4269-03\nc\04 cadd files\dgn\segment 1b-2\STREET MODIFICATION\msncst095-REV1 4/6/2011

POINT	STATION	OFFSET	ELEV
1	1630+07.87	31.11 LT	—
2	1630+38.99	31.16 LT	—
3	1630+39.55	31.11 RT	—
4	1633+01.31	30.26 RT	—
5	1633+37.82	66.50 RT	57.48
6	1633+37.29	76.63 RT	57.51
7	1633+72.39	84.66 RT	57.98
8	1633+74.27	75.73 RT	57.65
9	1633+75.05	72.04 RT	—
10	1634+14.88	35.06 RT	—
11	1630+39.13	19.96 LT	—
12	1630+44.08	18.09 LT	—
13	1630+26.51	17.08 RT	—
14	1630+39.55	19.08 RT	—
15	1631+75.96	17.08 RT	—
16	1633+01.33	18.89 RT	—
17	1630+07.23	32.39 RT	—
18	1630+35.66	31.11 RT	—

POINT	STATION	OFFSET	ELEV
19	1631+94.08	30.96 LT	—
20	1633+13.99	32.10 LT	—
21	1633+32.92	32.00 LT	—
22	1634+61.68	30.59 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 CD9-0031 FOR ROADWAY DETAILS.
6. SEE SHEETS CD9-0009 & CD9-0014 FOR DRIVEWAY DETAILS.
7. STORM SEWER PIPE LABEL INDICATES DRAINAGE SYSTEM AND RUN NUMBER. SEE HYDRAULIC COMPUTATIONS FOR MORE INFORMATION.
8. SEE GUIDEWAY PLAN AND PROFILE, BRIDGE LAYOUT, & DETAILS FOR HORIZONTAL & VERTICAL CONTROL POINTS OF PROPOSED BRIDGE DRAINS AND TRACK DRAINS.
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. SEE SHEET CD9-0007 AND CD9-0008 FOR LIMITS OF CUT & RESTORE PAVEMENT.
11. SEE SHEETS SS9-0025 AND SS9-0026 FOR JUNCTION BOX DETAILS.
12. FOR STREET LIGHTING AND UTILITY POLE SEE OVERHEAD UTILITY RELOCATION PLANS.
13. METRO OR ITS AGENTS TO OBTAIN RIGHT OF ENTRY WHEN RECONSTRUCTING DRIVEWAYS OR SIDEWALKS IN PRIVATE PROPERTY.
14. SEE SHEET CM6-0290 FOR CONCRETE WALL DETAILS.

CRITICAL LOCATE

CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF SBC BURIED CABLE PRIOR TO ANY EXCAVATION & STORM SEWER INSTALLATION. REFER TO SECTION 02317 FOR EXCAVATION AND BACKFILL FOR UTILITIES.

ROADWAY DESIGN

STATE OF TEXAS — MICHAEL J. KASPAR — 103600 — LICENSED PROFESSIONAL ENGINEER — 09/07/4

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY - GAS — DATE 4/7/11

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
CITY OF HOUSTON DWG NO: 47368

CONTRACT SHEET No. 112 OF 364

REV	DATE	DESCRIPTION	ADD	AMD	CCR	BY	ENG	CHK	APP
1	11/01/10	ROADWAY PLAN REVISIONS		✓	✓		MJK		DCJ

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

STATE OF TEXAS — BRANDON NGUYEN — 94972 — LICENSED PROFESSIONAL ENGINEER — 4/8/11

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	13 OCT 2009 DATE
B. NGUYEN DRN CKD BY	13 OCT 2009 DATE
M. MOSS DES BY	13 OCT 2009 DATE
B. NGUYEN DES CKD BY	13 OCT 2009 DATE
B. CONE APPROVED BY	13 OCT 2009 DATE
SCALE: 1" = 20'	

METRO SOLUTIONS NORTH CORRIDOR - SEGMENT 1B

STREET MODIFICATION PLAN
FULTON STREET
STA 1630+00 TO STA 1635+00

CONTRACT NO. 0800120 — DRAWING NO. CM6-0093 — REV. 1

RELEASED FOR CONSTRUCTION 5/4/2011

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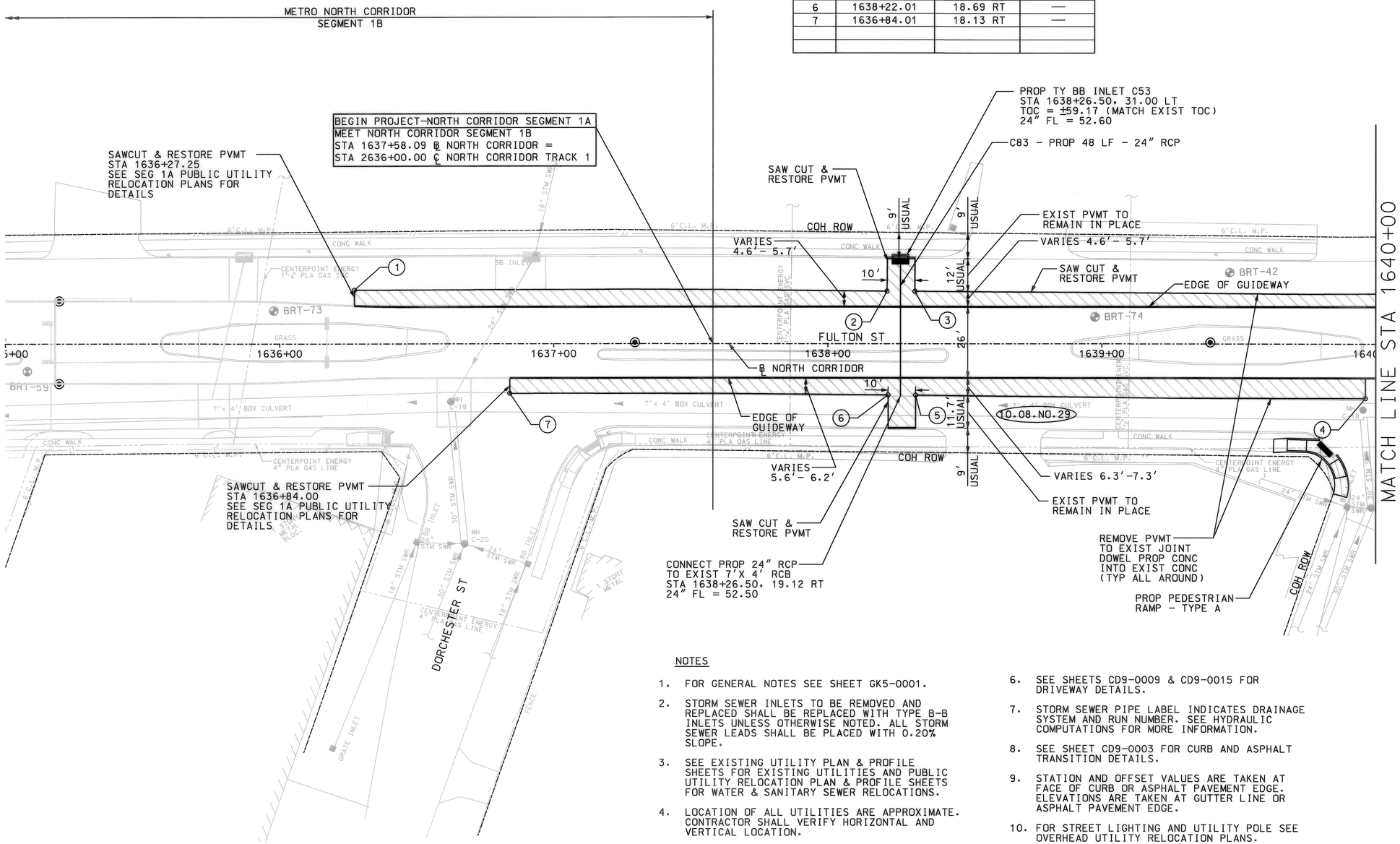
4/6/2011

POINT	STATION	OFFSET	ELEV
1	1637+27.25	19.54 LT	—
2	1638+21.60	19.15 LT	—
3	1638+31.75	19.07 LT	—
4	1639+96.21	19.85 RT	—
5	1638+32.01	18.78 RT	—
6	1638+22.01	18.69 RT	—
7	1636+84.01	18.13 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" CONCRETE PVMT
- PROP DRIVEWAY (SEE CD9-0015)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT W/ 9" CONCRETE PVMT
- PROP PLATFORM
- COH DESIGN VARIANCE

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.
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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 & CD9-0015 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

2/17/10

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY - GAS — DATE 2/8/10

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

CITY OF HOUSTON DWG NO:

PUBLIC WORKS AND ENGINEERING — ACCEPTED AND FILED — 46862 — CITY DRAWING NUMBER — HOUSTON, TEXAS

CONTRACT SHEET No. 85 OF 379

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 — 2/17/10

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	12 FEB 2010
DRN BY	DATE
B. NGUYEN	12 FEB 2010
DRN CKD BY	DATE
M. MOSS	12 FEB 2010
DES BY	DATE
B. NGUYEN	12 FEB 2010
DES CKD BY	DATE
B. CONE	12 FEB 2010
APPROVED BY	DATE

SCALE: 1" = 20'

METRO SOLUTIONS NORTH CORRIDOR - SEGMENT 1A

STREET MODIFICATION PLAN
FULTON STREET
BEGIN PROJECT TO STA 1640+00

CONTRACT NO. 0800120 | DRAWING NO. CM6-0095 | REV.

RELEASED FOR CONSTRUCTION APR 1 2010

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2/17/2010

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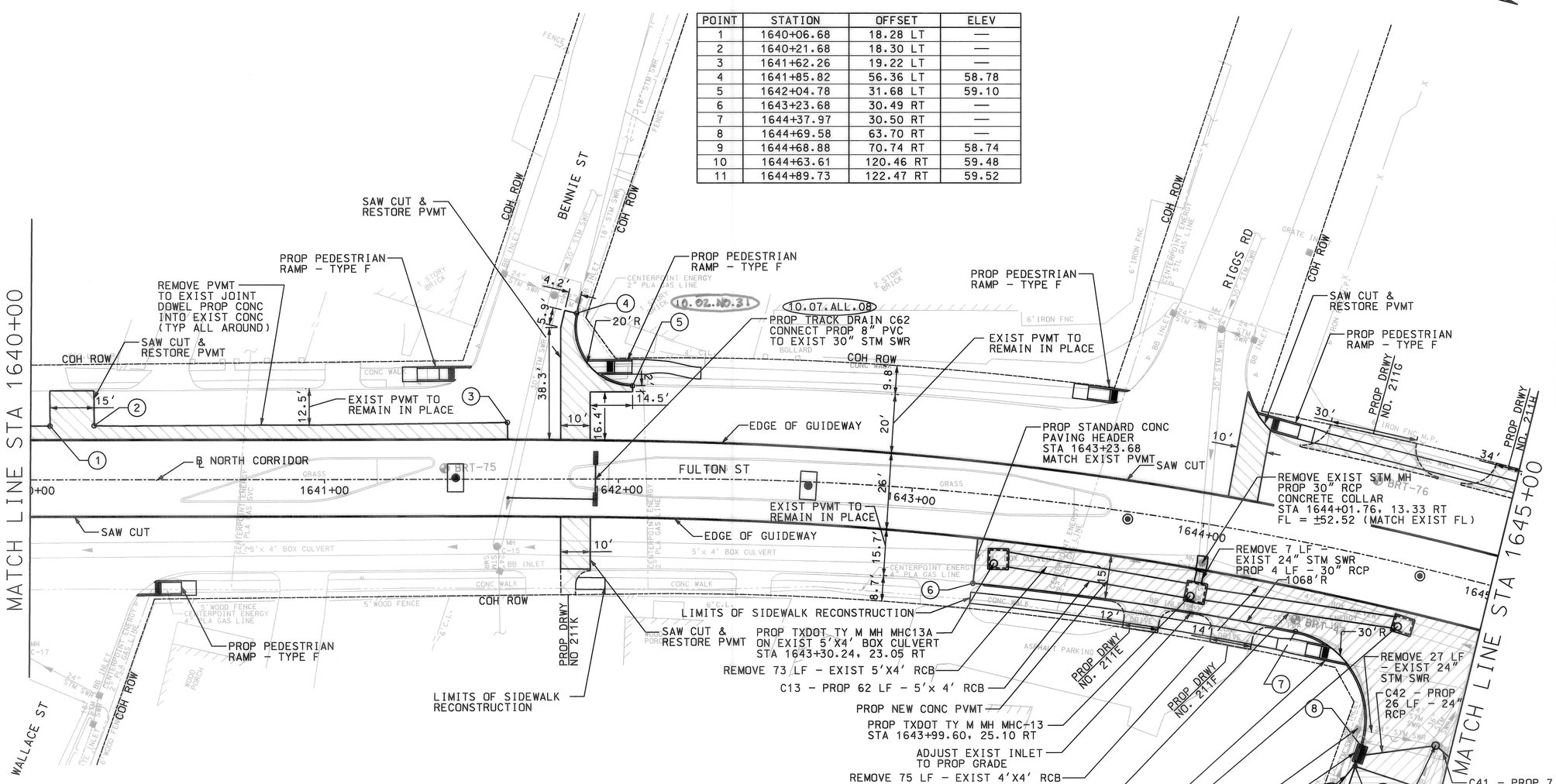
2/17/2010

POINT	STATION	OFFSET	ELEV
1	1640+06.68	18.28 LT	—
2	1640+21.68	18.30 LT	—
3	1641+62.26	19.22 LT	—
4	1641+85.82	56.36 LT	58.78
5	1642+04.78	31.68 LT	59.10
6	1643+23.68	30.49 RT	—
7	1644+37.97	30.50 RT	—
8	1644+69.58	63.70 RT	—
9	1644+68.88	70.74 RT	58.74
10	1644+63.61	120.46 RT	59.48
11	1644+89.73	122.47 RT	59.52



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" CONCRETE PVMT
- PROP DRIVEWAY (SEE CD9-0015)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT W/ 9" CONCRETE PVMT
- PROP PLATFORM
- COH DESIGN VARIANCE

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 & CD9-0015 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 ON PRIVATE PROPERTY.

ROADWAY DESIGN

STATE OF TEXAS – MICHAEL C. MOSS – 91083 – LICENSED PROFESSIONAL ENGINEER – 2/17/10

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY – GAS — DATE 2/19/10

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
CITY OF HOUSTON DWG NO:
ACCEPTED AND FILED – 46862 – CITY OF HOUSTON, TEXAS

CONTRACT SHEET No. 87 OF 379

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 – 2/17/10

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	12 FEB 2010 DATE
B. NGUYEN DRN CKD BY	12 FEB 2010 DATE
M. MOSS DES BY	12 FEB 2010 DATE
B. NGUYEN DES CKD BY	12 FEB 2010 DATE
B. CONE APPROVED BY	12 FEB 2010 DATE
SCALE: 1" = 20'	

METRO SOLUTIONS NORTH CORRIDOR – SEGMENT 1A

STREET MODIFICATION PLAN FULTON STREET STA 1640+00 TO STA 1645+00

CONTRACT NO. 0800120 — DRAWING NO. CM6-0097 — REV.

RELEASED FOR CONSTRUCTION APR 1 2010

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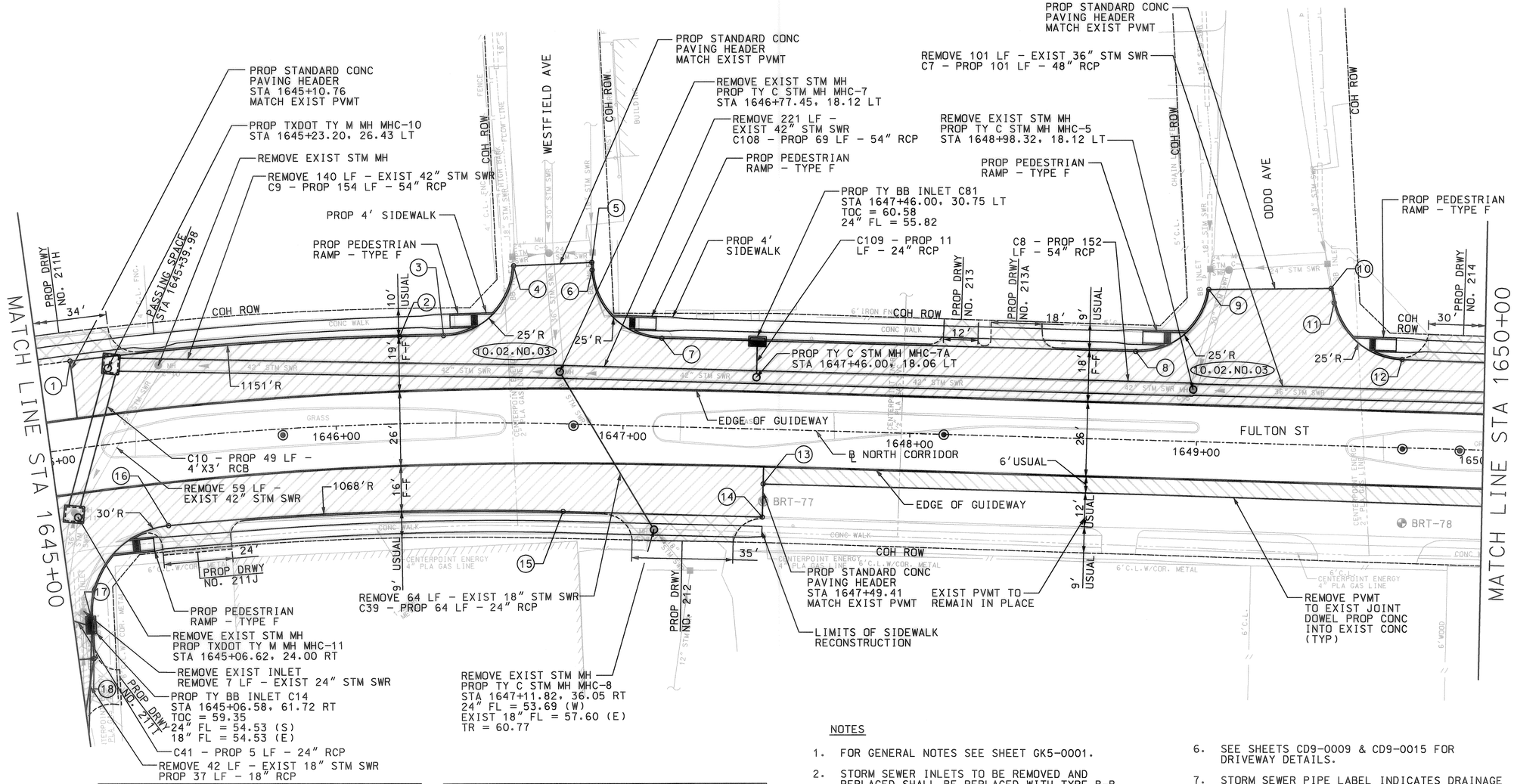

HORIZ. SCALE (IN FEET) 0 10 20 40

LEGEND

- EXIST COH ROW
- NEW COH ROW
- PROP GUIDEWAY
- PROP CURB
- PROP DRIVEWAY
- EXIST STORM SEWER
- EXIST UTILITY TO BE ABAN
- PROP STORM SEWER
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- PROP STREET CONST. 9" CONCRETE PVMT
- PROP DRIVEWAY (SEE CD9-0015)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT W/ 9" CONCRETE PVMT
- PROP PLATFORM
- COH DESIGN VARIANCE

POINT	STATION	OFFSET	ELEV
1	1645+10.76	30.41 LT	—
2	1646+22.87	30.31 LT	—
3	1646+37.73	30.42 LT	—
4	1646+61.20	54.79 LT	—
5	1646+87.57	56.60 LT	59.68
6	1646+87.76	53.94 LT	—
7	1647+12.70	30.74 LT	—
8	1648+77.97	30.77 LT	—
9	1649+02.82	53.11 LT	—
10	1649+45.45	54.69 LT	60.23

POINT	STATION	OFFSET	ELEV
11	1649+46.67	49.71 LT	—
12	1649+70.86	30.66 LT	—
13	1647+49.40	19.10 RT	—
14	1647+49.41	30.66 RT	—
15	1646+80.01	30.56 RT	—
16	1645+38.45	30.51 RT	—
17	1645+06.74	59.17 RT	—
18	1645+05.84	73.38 RT	58.90

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.
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6. SEE SHEETS CD9-0009 & CD9-0015 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 — 2/17/10

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY - GAS — DATE 2/2/10

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

ACCEPTED AND FILED — 46862 — CITY OF HOUSTON, TEXAS

CONTRACT SHEET No. 89 OF 379

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 — 2/17/10

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	12 FEB 2010 DATE
B. NGUYEN DRN CKD BY	12 FEB 2010 DATE
M. MOSS DES BY	12 FEB 2010 DATE
B. NGUYEN DES CKD BY	12 FEB 2010 DATE
B. CONE APPROVED BY	12 FEB 2010 DATE
SCALE: 1" = 20'	

METRO SOLUTIONS NORTH CORRIDOR - SEGMENT 1A

STREET MODIFICATION PLAN
FULTON STREET
STA 1645+00 TO STA 1650+00

CONTRACT NO. 0800120 | DRAWING NO. CM6-0099 | REV.

RELEASED FOR CONSTRUCTION APR 1 2010

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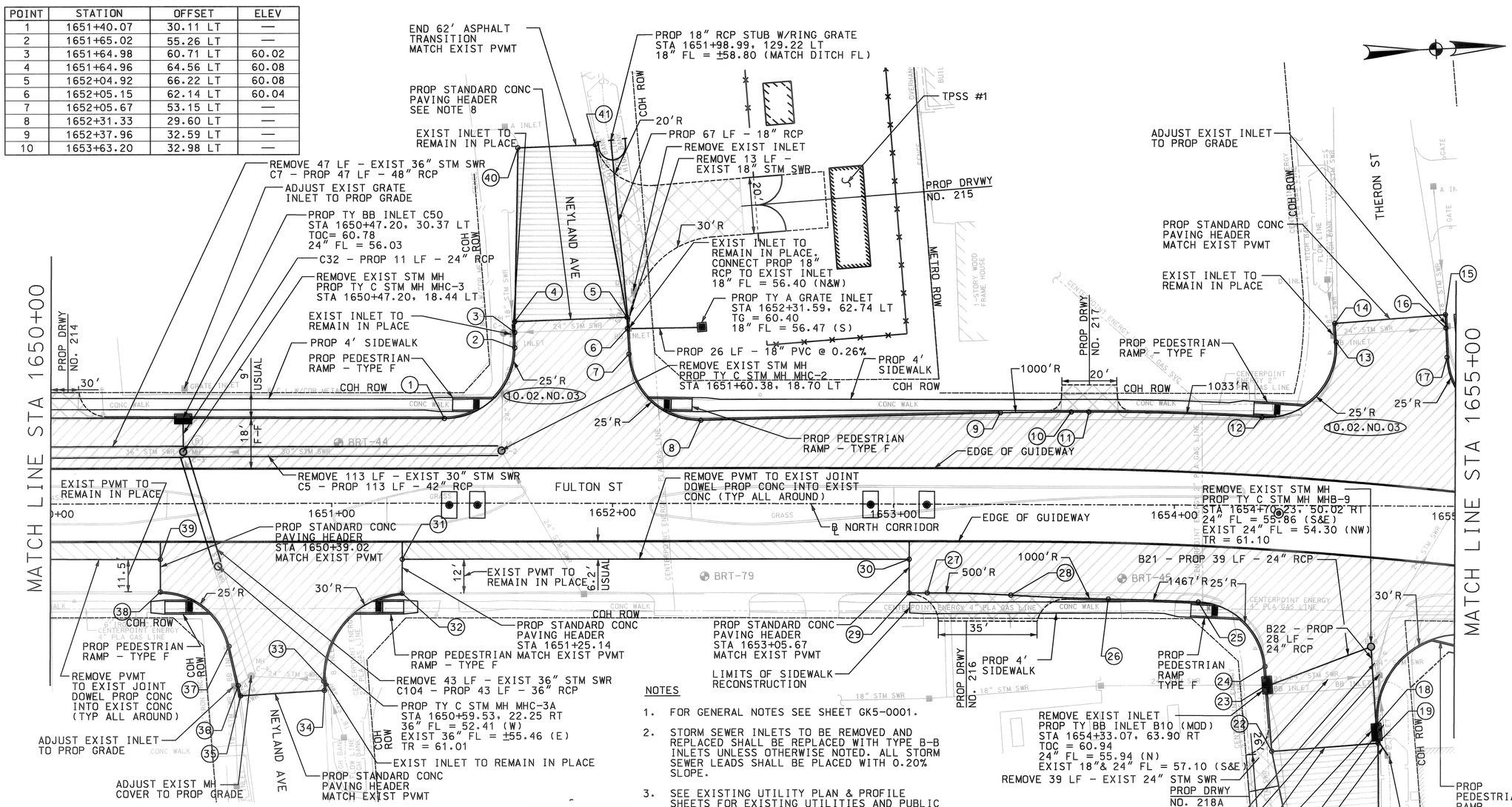
2/17/2010

POINT	STATION	OFFSET	ELEV
1	1651+40.07	30.11 LT	—
2	1651+65.02	55.26 LT	—
3	1651+64.98	60.71 LT	60.02
4	1651+64.96	64.56 LT	60.08
5	1652+04.92	66.22 LT	60.08
6	1652+05.15	62.14 LT	60.04
7	1652+05.67	53.15 LT	—
8	1652+31.33	29.60 LT	—
9	1652+37.96	32.59 LT	—
10	1653+63.20	32.98 LT	—



POINT	STATION	OFFSET	ELEV
11	1653+69.49	33.00 LT	—
12	1654+31.14	31.33 LT	—
13	1654+57.49	58.20 LT	—
14	1654+56.99	64.78 LT	60.25
15	1654+96.37	68.09 LT	60.16
16	1654+96.56	63.32 LT	60.14
17	1654+96.98	53.00 LT	—
18	1654+72.35	77.93 RT	—
19	1654+72.88	84.41 RT	60.33
20	1653+73.34	134.54 RT	61.26
21	1654+45.18	136.85 RT	61.12
22	1654+35.01	87.52 RT	60.52
23	1654+33.07	63.90 RT	60.44
24	1654+32.52	57.29 RT	—
25	1654+08.63	34.36 RT	—
26	1653+76.58	33.41 RT	—
27	1653+12.12	31.44 RT	—

POINT	STATION	OFFSET	ELEV
28	1653+41.89	32.15 RT	—
29	1653+05.67	31.48 RT	—
30	1653+05.66	19.54 RT	—
31	1651+25.14	19.86 RT	—
32	1651+25.12	31.96 RT	60.64
33	1650+97.17	63.25 RT	60.24
34	1650+97.31	66.55 RT	60.26
35	1650+67.50	68.39 RT	59.99
36	1650+66.66	64.74 RT	59.97
37	1650+63.42	50.67 RT	60.10
38	1650+39.01	31.28 RT	60.91
39	1650+39.03	19.75 RT	—
40	1651+65.88	126.45 LT	61.02
41	1651+93.47	127.59 LT	60.71

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 & CD9-0015 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.

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" CONCRETE PVMT
- PROP DRIVEWAY (SEE CD9-0015)
- PROP ASPHALT TRANS. 1½" HMAC SURFACE & 6" HMAC BASE COURSE
- CUT & RESTORE PVMT W/ 9" CONCRETE PVMT
- PROP PLATFORM
- COH DESIGN VARIANCE

ROADWAY DESIGN

STATE OF TEXAS — MICHAEL C. MOSS 91083 LICENSED PROFESSIONAL ENGINEER — 2/17/10

PRIVATE UTILITY LINES SHOWN

CENTER POINT ENERGY - GAS — DATE 2/19/10

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

CITY OF HOUSTON DWG NO:

PUBLIC WORKS AND ENGINEERING — ACCEPTED AND FILED — 46862 — CITY ENGINEER — HOUSTON, TEXAS

CONTRACT SHEET No. 91 OF 379

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 — 2/17/10

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	12 FEB 2010 DATE
B. NGUYEN DRN CKD BY	12 FEB 2010 DATE
M. MOSS DES BY	12 FEB 2010 DATE
B. NGUYEN DES CKD BY	12 FEB 2010 DATE
B. CONE APPROVED BY	12 FEB 2010 DATE
SCALE: 1" = 20'	

METRO SOLUTIONS NORTH CORRIDOR - SEGMENT 1A

STREET MODIFICATION PLAN
FULTON STREET
STA 1650+00 TO STA 1655+00

CONTRACT NO. 0800120 — DRAWING NO. CM6-0101 — REV.

RELEASED FOR CONSTRUCTION APR 1 2010

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