Appendix A

Design Engineering Plans
Volumes A, B, C, and Stations
A-2

Volume B

Elm Fork of Trinity River to

Dallas North Tollway Line

Section CB-2  Part 2
AT GRADE TYPICAL CROSSING

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CS-1

TYPICAL SECTION
SHEET 1 OF 1

IN-PROGRESS

D. KING
1/22/2018

NOTING:

- Material:
  - Concrete Tie: 10'-0" (NORTH BOUND)
  - Concrete Tie: 10'-0" (SOUTH BOUND)
  - Concrete Encased Duct Bank
  - Filter Fabric
  - 24:1 Underdrain
  - 12" Subballast (if required)
  - 6" Lime Treated Subgrade (if required)

- Dimensions:
  - Filler: 10'-5" (NORTH BOUND)
  - Filler: 10'-5" (SOUTH BOUND)

- Notes:
  - VARIES 8'-0" TO 10'-0"

- Authority of:
  - ListViewer
  - J. Briscoe, P.E. NO. 99558

- Date:
  - FEB 02 2018

- Scale:
  - NO SCALE

- Drawn:
  - D. Clarke

- Designed:
  - J. Briscoe

- Checked:
  - K. Wagner
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

1. SEE DWG NO. CC6-2001 AND CC6-2002 FOR ABBREVIATIONS AND ADDITIONAL NOTES.

2. SCALE: 1" = 40'
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

1. SEE DWG NO. CC6-2001 AND GC1-0003 FOR ABBREVIATIONS AND ADDITIONAL NOTES.

SCALE: NTS
CENTER LINE
16'
16'
36'
2% SLOPE
2'
2'

N DENTON DRIVE
SCALE: NTS
W ID T H  R .O .W .)
(V A R IA B L E
D E N T O N  D R

* PER CITY OF CARROLLTON GENERAL DESIGN STANDARDS

* PROPOSED SIDEWALK

BE REMOVED
TRACKS TO BE REMOVED

12'

STREET/ALLEY/DRIVE RECONSTRUCTION
GRADE CROSSING PANEL

LEGEND

NOT IN PROGRESS

COPTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

STREET MODIFICATION PLAN
N. DENTON DRIVE

ICONIC CONSULTING GROUP, INC.

DART PROJECT

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

CONTRACT SHEET NO. 456 OF 873

D L K

C. CLARKE

K. WAGNER

D. KING

N. DENTON DRIVE
STREET MODIFICATION PLAN
N. DENTON DRIVE

SCALE: 1"=40'

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12'
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

LEGEND

STREET/ALLEY/DRIVE RECONSTRUCTION
GRADE CROSSING PANEL

IN-PROGRESS
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

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PRELIMINARY 10% DESIGN

NOTE:
1. SEE DWG NO. CC6-2001 AND GC1-0003 FOR ABBREVIATIONS AND ADDITIONAL NOTES.

SCALE: 1"=40'
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LEGEND
- STREET/ALLEY/DRIVE RECONSTRUCTION
- GRADE CROSSING PANEL

IN-PROGRESS
- PERFORM OF ADDITIONAL PAVING CONSTRUCTION DETAILS

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

STREET MODIFICATION PLAN
QUORUM DRIVE

SCALE: NTS

NOT TO BE USED FOR CONSTRUCTION,
IN-PROGRESS AUTHORITY OF:
FOR THE PURPOSE OF REVIEW UNDER THE
THIS DOCUMENT IS RELEASED
ON 02/02/2018
JEFFREY BRISCOE, P.E. NO. 99558

ARAPAHO ROAD
@ 18" C-C
8" CLASS P1 WITH NO.3 BARS
4% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2%

$ QUORUM DRIVE
VARIES 25'-33'-6"
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

1. BRIDGES LOCATED APPROXIMATELY AS
   STA. 2077+34 TO STA. 2077+94 AND STA. 2133+00 TO STA. 2133+90 (UNNAMED STREAM)
2. DESIGN LOADS: AREMA COOPER E80
   STA. 2077+34 TO STA. 2077+94
   STA. 2077+34 TO STA. 2077+94 AND STA. 2057+73 TO STA. 2058+63 (UNNAMED ROAD)

1. BRIDGE LOCATED APPROXIMATELY AT
   STREAM BRIDGE.
   * INCREASE DIMENSION AND INCLUDE ADDITIONAL BOX BEAMS AT UNNAMED STREAM.

NOTES:

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CUT WALL TYPICAL SECTION - ORILLED SHAFT
WALLS GREATER THAN 5 FEET TALL

FILL WALL TYPICAL SECTION - T-WALL

CUT WALL TYPICAL SECTION - SHEET PILE
WALLS 5 FEET TALL OR LESS

NOTE:
SEE TRACK TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

IN-PROGRESS REVIEW
FOR THE PURPOSE OF REVIEW UNDER THE
CONTRACT SHEET NO. 474 OF 673

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2
RETNING WALL STRUCTURAL DETAILS

IN CHARGE
DATE
CHECKED
DESIGNED
DRAWN
SCALE
CONTRACT DWG No.
REV AMEND DATE DESCRIPTION APP CHK ENG BY

TBPE FIRM NO. F-754
HDR ENGINEERING, INC.
ON 02/02/2018
CASSANDRA WALLOF, P.E. NO. 120398
DART, all rights reserved, 1987-2018

PANEL (TYP)
PRECAST CONCRETE
LEVELING PAD
CONCRETE PANELS
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SEE TRACK TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.

NOTE:

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T-WALL
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SHAFT CAP
DRILLED
WALL/COPING
UNDERDRAIN
LEVELING PAD
SHAFT
FENCE
UNDERDRAIN
PILE
STEEL SHEET
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN
COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2
DRAINAGE AREA MAP
SHEET 4 OF 9

IN-PROGRESS

CONTRACT SHEET NO. 478 OF 873
DART PROJECT

COCONIC CONSULTING GROUP, INC.

DRAFTER: J. BRISCOE

SCALE: 1" = 200'

IN CHARGE: K. SIMS

DATE: FEB 02 2018

CONTRACT NO. COC-2004

DRAWN: J. BRISCOE, P.E. NO. 99558

FOR THE PURPOSE OF REVIEW UNDER THE
TBPE FIRM NO. F-10715
AUTHORITY OF:

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AUTHORITY OF:

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TBPE FIRM NO. F-10715
AUTHORITY OF:

IN PROGRESS

FOR BIDDING, OR PERMIT PURPOSES.
### CITY OF Carrollton Drainage Design Manual

#### Preliminary 10% Design

**Notes:**
1. Intensity in the City of Carrollton is taken from the City of Carrollton Design Manual.
2. Intensity in the Town of Addison is taken from the Town of Addison Drainage Design Manual.

### Area by Zone

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<th>Area Number</th>
<th>SF (acres)</th>
<th>D (acres)</th>
<th>MF (acres)</th>
<th>L3 (acres)</th>
<th>FAH (acres)</th>
<th>L1-2 (acres)</th>
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<th>PFC (acres)</th>
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<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.10</td>
<td>9.69</td>
<td>0.75</td>
<td>1.0</td>
<td>0.90</td>
<td></td>
</tr>
<tr>
<td>B-9</td>
<td>0.10</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.10</td>
<td>9.69</td>
<td>0.75</td>
<td>1.0</td>
<td>0.90</td>
<td></td>
</tr>
<tr>
<td>B-8</td>
<td>0.10</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.10</td>
<td>9.69</td>
<td>0.75</td>
<td>1.0</td>
<td>0.90</td>
<td></td>
</tr>
</tbody>
</table>

**NOT AN APPROVED DRAWING**

**PRELIMINARY 10% DESIGN**

**CONTRACT SHEET NO.: 484 of 873**

**DRAINAGE AREA CALCULATIONS**

**SHEET 1 of 1**

**IN-PROGRESS**

**DART PROJECT**

**COTTON BELT REGIONAL RAIL SYSTEM**

**LINE SECTION CB-2**
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

NOTES:
1. FOR HORIZONTAL AND VERTICAL GEOMETRY, SEE HORIZONTAL SHEET AND SOLID PLAN AND PROFILE SHEETS.

2. UTILITY INFORMATION IS BASED UPON EXISTING UTILITY PLANS PROVIDED BY CITY OF COTTON BELT, CITY OF ADDISON, CITY OF CARROLLTON, CITY OF DALLAS, AND COTTON BELT REGIONAL RAILWAY. THESE SOURCES MAY NOT PRECISELY IDENTIFY THE EXISTENCE OF OTHER UNDERGROUND FACILITIES. ALL INFORMATION COLLECTED FROM THESE SOURCES AND PREVIOUS SURVEYS AND EXCAVATIONS IS BASED UPON DATA COLLECTED FROM PUBLIC RECORDS. THE COMPLETE INFORMATION FROM PUBLIC RECORDS IS NOT GUARANTEED EXCEPT AS FURTHER NOTED BY FIELD MEASUREMENT. UTILITIES SHALL BE IDENTIFIED BY FIELD MEASUREMENT.

3. ENCROACHMENTS OF EXISTING UTILITIES WHICH CROSS THE DART SYSTEM SHALL BE DETERMINED IN ACCORDANCE WITH CURRENT DATA OR UTILITY COMPANY REQUIREMENTS.

4. ALL ELECTRIC, TELEPHONE, GAS LINE, AND COMMUNICATION CABLES ARE CONSIDERED PRIVATE UTILITIES AND WILL BE LOCATED BY CONTRACTORS.

5. FINAL DESIGNER SHALL VERIFY THE HEIGHT OF ALL UTILITIES AND WILL BE LOCATED BY CONTRACTORS. UTILITIES SHALL BE VERIFIED BY FINAL DESIGNER.

6. UTILITIES ARE SHOWN AND PROVIDE UTILITIES SOURCES. THE COMPLETENESS AND/OR ACCURACY OF THESE RECORDS CANNOT BE GUARANTEED EXCEPT AS FURTHER NOTED BY FIELD MEASUREMENT AND DATA.

7. EXISTING DRAINAGE SYSTEMS AND FRANCHISE UTILITIES ENCASEMENT AND DEPTH.

8. EXISTING WATER SYSTEMS AND PIPELINE UTILITIES ENCROACHMENT SHOWN PER CLIENT PROVIDED INFORMATION.
EXISTING UTILITY COMPOSITE
STA 2012+00.00 TO STA 2020+00.00

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

SCALE (IN FEET)
1" = 40'

IN-PROGRESS

COBBLESTONE REGIONAL RAIL SYSTEM
LINE SECTION CB-2

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

DART PROJECT

NOTES:

1. SEE DWG NO. UC2-02-2002 FOR ADDITIONAL NOTES.
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

MATCH LINE CB-2 SB STA 2020+00.00
MATCH LINE CB-2 NB STA 2020+00.00

EXISTING ROW

EXISTING ROW

W. BELT LINE RD

NOTE:
See DWG No. UC2-2001 for additional notes.

1. EXISTING UTILITY COMPOSITE

STA 2020+00.00 TO STA 2028+00.00 EXISTING ROW

SCALE (IN FEET)

1" = 40'

NOTES:

IN-PROGRESS

DART PROJECT

COTTON BELT REGIONAL RAIL SYSTEM LINE SECTION CB-2

FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF:

FAISAL S. SYED, P.E. NO. 84833

ON 02/02/2018

FAISAL S. SYED, P.E. NO. 84833

ON 02/02/2018

FAISAL S. SYED, P.E. NO. 84833
MATCH LINE CB-2
SEE DWG No. UC2-2007B

MATCH LINE CB-2
SEE DWG No. UC2-2008B

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

SEE DWG No. UC2-2007 FOR ADDITIONAL NOTES

NOTES:
1. SEE DWG. No. UC2-2001 FOR ADDITIONAL NOTES

UC2-2007B

FROM SHEET UC2-2007 TO EXISTING UTILITY COMPOSITE
LINE SECTION CB-2

COTTON BELT REGIONAL RAIL SYSTEM

PROPOSED ROW (VARIABLE WIDTH)

LUNA RD.

COLLEGE AVE.

50' ROW

MATCH LINE CB-2
SEE DWG No. UC2-2007

SCALE (IN FEET)
0
20
40
80

H. RAZA
O. VENZOR
F. SYED

IN-PROGRESS

DART PROJECT

COCONUTS BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

EXISTING UTILITY COMPOSITE
FROM SHEET UC2-2007 TO SHEET UC2-2008C

NOTE:
1. SEE DWG. No. UC2-2001 FOR ADDITIONAL NOTES

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

MATCH LINE CB-2
SEE DWG No. UC2-2007
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

1. SEE DWG No. UC2-2001 FOR ADDITIONAL NOTES.

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2007B

LUNA RD.

EXISTING ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

IN-PROGRESS

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

EXISTING UTILITY COMPOSITE
FROM SHEET UC2-2007B

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

PROPOSED ROW (VARIABLE WIDTH)

DART PROJECT

NOTES:

H. RAZA

O. VENZOR

F. SYED

FEB 02 2018

H. RAZA

FAISAL S. SYED, P.E. NO. 84833

1/29/2018

TBPE FIRM NO. F-5332

URBAN ENGINEERS GROUP, INC.

ON 02/02/2018

FAISAL S. SYED, P.E. NO. 84833

H. RAZA

O. VENZOR

F. SYED

IN-PROGRESS

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

EXISTING UTILITY COMPOSITE
FROM SHEET UC2-2007B

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

PROPOSED ROW (VARIABLE WIDTH)

DART PROJECT

NOTES:

H. RAZA

O. VENZOR

F. SYED

FEB 02 2018

H. RAZA

FAISAL S. SYED, P.E. NO. 84833

1/29/2018

TBPE FIRM NO. F-5332

URBAN ENGINEERS GROUP, INC.

ON 02/02/2018

FAISAL S. SYED, P.E. NO. 84833

H. RAZA

O. VENZOR

F. SYED

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.

MATCH LINE CB-2
SEE DWG No. UC2-2007B

PROPOSED ROW

MATCH LINE CB-2
SEE DWG No. UC2-2008C

PROPOSED ROW

SCALE (IN FEET)

0
20
40
80

1" = 40'

FROM SHEET UC2-2007B

NOTES:

LUNA RD.
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

1. See DWG No. UC2-2001 for additional notes.

MATCH LINE CB-2
See DWG No. UC2-2008B

MATCH LINE CB-2
See DWG No. UC2-2009B

NOTES:

H. Raza
O. Venzor
F. Syed

FROM SHEET UC2-2008B
EXISTING UTILITY COMPOSITE

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DART PROJECT

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

IN-PROGRESS

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

CONTRACT SHEET No. 496 of 873

FAISAL S. SYED, P.E. No. 84833
FEB 02 2018
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

EXISTING UTILITY COMPOSITE
FROM SHEET UC2-2009

1. SEE DWG No. UC2-2001 FOR ADDITIONAL NOTES.

MATCH LINE CB-2
SEE DWG No. UC2-2009

MATCH LINE CB-2
SEE DWG No. UC2-2008

MATCH LINE CB-2
SEE DWG No. UC2-2008+00.00

COLLEGE AVE.
(250' ROW)

CRESCENT DRIVE
(350' ROW)

CAPITAL DRIVE
(160' ROW)

PROPOSED ROW

PROPOSED ROW

SCALE (IN FEET)
0
20
40
80

1" = 40'

FROM SHEET UC2-2009
EXISTING UTILITY COMPOSITE

NOTES:

H. RAZA
O. VENZOR
F. SYED
(50' ROW)
COLLEGE AVE.
PROPOSED ROW
CAPITAL DRIVE
CRESSENT DRIVE
(60' ROW)
CAPITAL DRIVE
(60' ROW)

H. RAZA
O. VENZOR
F. SYED
(50' ROW)

IN-PROGRESS
MATCH LINE CB-2
SEE DWG No. UC2-2009B
MATCH LINE CB-2

PROPOSED ROW

PROPOSED ROW

CRESSENT DRIVE
(60' ROW)

CAPITAL DRIVE
(60' ROW)

SEE DWG No. UC2-2009B

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

NOTES:
1. SEE DWG No. UC2-2009B FOR ADDITIONAL NOTES.

VINCENT V. VENZOR, P.E.
FAISAL S. SYED, P.E.

IN-PROGRESS
EXISTING UTILITY COMPOSITE
FROM UC2-2009B
COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

BIDDING, OR PERMIT PURPOSES.
IT IS NOT TO BE USED FOR CONSTRUCTION,
IN-PROGRESS AUTHORITY OF:
FOR THE PURPOSE OF REVIEW UNDER THE
THIS DOCUMENT IS RELEASED
ON 02/02/2018

TBPE FIRM NO. F-5332

UBRAN ENGINEERS GROUP, INC.
ON 02/02/2018

FAISAL S. SYED, P.E. NO. 84833

FEB 02 2018

H. RAZA
1/29/2018

1" = 40'

1. SEE DWG No. UC2-2001 FOR ADDITIONAL NOTES.

FROM UC2-2009B
EXISTING UTILITY COMPOSITE
FROM UC2-2009B
COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

BIDDING, OR PERMIT PURPOSES.
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UBRAN ENGINEERS GROUP, INC.
ON 02/02/2018

FAISAL S. SYED, P.E. NO. 84833

FEB 02 2018

H. RAZA
1/29/2018

1" = 40'

1. SEE DWG No. UC2-2001 FOR ADDITIONAL NOTES.

FROM UC2-2009B
EXISTING UTILITY COMPOSITE
FROM UC2-2009B
COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

BIDDING, OR PERMIT PURPOSES.
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TBPE FIRM NO. F-5332

UBRAN ENGINEERS GROUP, INC.
ON 02/02/2018

FAISAL S. SYED, P.E. NO. 84833

FEB 02 2018

H. RAZA
1/29/2018

1" = 40'

1. SEE DWG No. UC2-2001 FOR ADDITIONAL NOTES.
MATCH LINE CB-2 NB
SEE DWG No. UC2-2010B

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

EXISTING UTILITY COMPOSITE
STA 2016+00.00 TO STA 2084+00.00

SCALE (IN FEET)
0
20
40
80
1. SEE DWG No. UC2-2010B FOR ADDITIONAL NOTES.
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

NOTES:
1. SEE DWG No. UCZ-2001 FOR ADDITIONAL NOTES

MATCH LINE CB-2 NB

SEE DWG No. UCZ-2009B

CRESSENT DRIVE (50' ROW)

COLLEGE AVE. (50' ROW)

SEE DWG No. UCZ-2010

MATCH LINE

H. RAZA
O. VENZOR
F. SYED

IN-PROGRESS

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

MATCH LINE CB-2 NB

SEE DWG No. UCZ-2009B

CRESSENT DRIVE (50' ROW)

COLLEGE AVE. (50' ROW)

SEE DWG No. UCZ-2010

MATCH LINE

H. RAZA
O. VENZOR
F. SYED

IN-PROGRESS

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

MATCH LINE CB-2 NB

SEE DWG No. UCZ-2009B

CRESSENT DRIVE (50' ROW)

COLLEGE AVE. (50' ROW)

SEE DWG No. UCZ-2010

MATCH LINE

H. RAZA
O. VENZOR
F. SYED

IN-PROGRESS

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

MATCH LINE CB-2 NB

SEE DWG No. UCZ-2009B

CRESSENT DRIVE (50' ROW)

COLLEGE AVE. (50' ROW)

SEE DWG No. UCZ-2010

MATCH LINE

H. RAZA
O. VENZOR
F. SYED

IN-PROGRESS

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

MATCH LINE CB-2 NB

SEE DWG No. UCZ-2009B

CRESSENT DRIVE (50' ROW)

COLLEGE AVE. (50' ROW)

SEE DWG No. UCZ-2010

MATCH LINE

H. RAZA
O. VENZOR
F. SYED

IN-PROGRESS

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

MATCH LINE CB-2 NB

SEE DWG No. UCZ-2009B

CRESSENT DRIVE (50' ROW)

COLLEGE AVE. (50' ROW)

SEE DWG No. UCZ-2010

MATCH LINE

H. RAZA
O. VENZOR
F. SYED

IN-PROGRESS
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

IN-PROGRESS

DART PROJECT

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

EXISTING UTILITY COMPOSITE
STA 2180+00.00 TO STA 2188+00.00

CONTRACT SHEET NO.

514 of 873

1. SEE DWG. NO. UC2-2001 FOR ADDITIONAL NOTES.

2. SEE DWG. NO. UC2-2021 FOR ADDITIONAL NOTES.

NOTES:

H. RAZA

1" = 40'

O. VENZOR

STA 2180+00.00 TO STA 2188+00.00

EXISTING UTILITY COMPOSITE
SEE DWG No. UC2-2026
MATCH LINE CB-2 NB STA 2212+00.00

MATCH LINE CB-2 NB STA 2220+00.00
SEE DWG No. UC2-2028
M A T C H L I N E  C B - 2 N B S T A  2 2 7 6 + 0 0 .0 0

S E E  D W G  N o . U C 2 - 2 0 3 4

STAT 2276+00.00 TO STA 2284+00.00
EXISTING UTILITY COMPOSITE

NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

COITON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

MATCH LINE CB-2 NB STA 2284+00.00

MATCH LINE CB-2 NB STA 2276+00.00

SEE DWG No. UCE-2034

INDOOR LEAD

ONCOR OHE

QWEST FIBER OPTIC

VERIZON UGT

PETROLEUM LINE EXPLORER 12.75" (APPROX. LOCATION)

SPRINT FIBER OPTIC (APPROX. LOCATION)

60" RCP W DALLAS WITH OTHERS

EXISTING ROW MATCH LINE CB-2 NB STA 2276+00.00

S E E  D W G  N o . U C 2 - 2 0 3 6

MATCH LINE CB-2 NB STA 2284+00.00

NOTES:

1. SEE DWG. No. UC2-2001 FOR ADDITIONAL NOTES.

1" = 40'

H. RAza

H. RAza

F. SYED

O. VENZOR

STA 2276+00.00 TO STA 2284+00.00
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

IN-PROGRESS

DART PROJECT

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

EXISTING UTILITY COMPOSITE
STA 2324+00.00 TO STA 2332+00.00

1. SEE DWG. No. UC2-2001 FOR ADDITIONAL NOTES.

NOTES:

H. RAZA

F. SYED

O. VENZOR
NOT AN APPROVED DRAWING
PRELIMINARY 10% DESIGN

MATCH LINE CB-2 NB STA 2340+00.00

MATCH LINE CB-2 SB STA 2348+00.00

EXISTING ROW TO REMAIN
EXISTING ROW TO BE REMOVED
EXISTING ROW TO BE ADDED
EXISTING GALLERIA SPUR TRACK TO REMAIN
EXISTING GALLERIA SPUR TRACK TO BE REMOVED
EXISTING STORAGE TO BE REMOVED
EXISTING TURNOUT TO BE REMOVED
EXISTING TRACK TO BE REMOVED
EXISTING TURNOUT TO BE REMOVED

QWEST FIBER OPTIC
VERIZON UGT
SPRINT FIBER OPTIC
PETROLEUM LINE
EXPLORER 12.75"

ADDISON 10" SS
ADDISON 8" SS
DALLAS 60" RCP W

9'X5' RCB STM
36" RCP STM
8'X5' RCB STM
32" RCP STM
30" RCP STM
9'X5' RCB STM
32" RCP STM
21" RCP STM
30" RCP STM
9'X5' RCB STM
32" RCP STM

MATCH LINE CB-2 NB STA 2340+00.00

MATCH LINE CB-2 SB STA 2348+00.00

SURVEY OR CONSTRUCTION DELINEATION
Proposed Retaining Wall
Existing Retaining Wall
E 2-2 SD
Proposed Retaining Wall
Existing Retaining Wall
Proposed Retaining Wall
Existing Retaining Wall
Proposed Retaining Wall
Existing Retaining Wall

SEE DWG No. UC2-1042 FOR ADDITIONAL NOTES.

NOTES:

1" = 40'
STA 2340+00.00 TO STA 2348+00.00
EXISTING UTILITY COMPOSITE

IN-PROGRESS

COTTON BELT REGIONAL RAIL SYSTEM
LINE SECTION CB-2

DART PROJECT

NOTES:

EXISTING UTILITY COMPOSITE
STA 2340+00.00 TO STA 2348+00.00

SCALE (IN FEET)
0
20
40
80