Appendix B

Technical Memoranda and Reports

Disclaimer:

Technical memoranda and reports were prepared as independent documents to support the preparation of the Final Environmental Impact Statement (FEIS) for the Dallas CBD Second Light Rail Alignment (D2 Subway). Information from these documents was incorporated into the FEIS to provide information on existing conditions, and in some cases, assess potential impacts to the resources. Information contained in the FEIS is the most current and supersedes information in the technical memoranda and reports.
B-14

Determination of Effects Report,
Part 2 (April 2020)
Appendix A. D2 Subway Pedestrian Portal 20% Designs and Location Maps
This illustration is graphic in nature and includes context outside the limits of the D2 project. Elements are subject to change. Engineering and Architectural plans, profiles and details govern.
PARTIAL PLAN A

NOTES:
1.stück rails are indicated for information purpose only.
2. top of rails 0'-0".
3. for conduit location in column see sheet AC2-1002.
4. all previous tin locations are shown in detail AC2-1003.
5. all warning signs to be type A unless noted otherwise. on sheet AC1-0001.
6. for unusual detail see sheet AC2-1003.
7. for warning type WS-1 and WS-5 see sheets AC3-0001, AC3-0002, AC3-0003.
8. for bicycle rack see sheet AC2-0002.
9. plating cross slope drawn from track gin, s 1, and s 7.1%, direction may vary.
10. ensure to adjust length to maintain slope of less than 7.5%.
11. see irrigation drawings for mowe runs.

THE CONTRACT SHEET NO.

DART PROJECT

LIGHT RAIL TRANSIT SYSTEM

LINE SECTION CBD-2

MUSEUM WAY STATION

PLATFORM

PARTIAL PLAN A

NOT FOR CONSTRUCTION

NOT AN APPROVED DRAWING

PRELIMINARY 20% DESIGN

CONTRACT SHEET No.
15 of 217

IN-PROGRESS

WE MUST FURNISH TO THE CONTRACTOR FOR CONSTRUCTION PURPOSES THE DRAWING OF DESIGN, AS AMENDED OR MODIFIED.

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NOT AN APPROVED DRAWING
PRELIMINARY 20% DESIGN

NOTES:
1. SEE STRUCTURAL DRAWINGS IN FINE DESIGN FOR HEIGHT OF CANOPY. SUCH HEIGHTS ARE INTENDED TO TOP OF PLATFORM, AND MAY VARY SLIGHTLY DEPENDING ON SITE SPECIFIC CONDITIONS.
2. 8'-4" DIMENSION FOR HEIGHT OF COLUMN CLADDING TO STANDARDS. IN ORDER TO MAINTAIN A LEVEL PLATFORM AND TOP OF CANOPY, THE 8'-4" COLUMN CLADDING HEIGHT IS RELATIVE TO TOP OF CANOPY. COLUMN CLADDING IS MINIMUM 2.5'-0" FROM PLATFORM RISES.
3. SEE WINDSCREEN 5'-0" FROM CANOPY ELEVATION. IN ORDER TO MAINTAIN A LEVEL PLATFORM AND TOP OF CANOPY, THE 5'-0" WINDSCREEN HEIGHT IS RELATIVE TO TOP OF CANOPY. COLUMN CLADDING IS MINIMUM 2'-0" FROM PLATFORM RISES.
4. SEE TRAFFIC PLAN DESIGN SHOWN ON FINAL DESIGN DRAWINGS.
5. SEE STRUCTURAL PLANS FOR PLATFORM DESIGN FOR HEIGHT OF CANOPY. SUCH HEIGHTS ARE INTENDED TO TOP OF PLATFORM, AND MAY VARY SLIGHTLY DEPENDING ON SITE SPECIFIC CONDITIONS.
TYPICAL CANOPY EXTERIOR ELEVATION

SCALE: "=1'-0"

DETAIL
AS4-0004

AC2-1002
AC2-1001
AC2-1003

MIN
H
D
L
G
C
B
F
K
A
E
J

METAL BODY
GUTTER
COLUMN CLADDING
STANDARD

LIGHTNING PROTECTION
BANNER SUPPORTS
METAL ROOF
GUTTER
SIGNBAND
COLUMN CLADDING
FOR LOCATION TYPE
SEE PLATFORM PLANS
WINDSCREEN
OPEN (TYP)

24'-0"

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MATCHLINE SEE DWG. No. AC2-2214

METRO CENTER STATION - MEZZANINE LEVEL SECTOR PLAN - C2

1/8" = 1'-0"
MATCHLINE
SEE DWG. NO. AC2-2312

METRO CENTER STATION - CONCOURSE LEVEL SECTOR PLAN - B2

SCALE: 1/8" = 1' - 0"

DART PROJECT
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION OR-2

METRO CENTER STATION
CONCOURSE LEVEL SECTOR PLAN B2

HDR ENGINEERING, INC.
17111 PRESTON RD SUITE 300, DALLAS, TX 75248

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GREGORY T. D. TALLOS, AIA NCARB
LEED AP BD+C, TX LICENCE NO. 26520
ON 03/06/2020

HDR ENGINEERING, INC.
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MATCHLINE  SEE DWG. No. AC2-2321

MATCHLINE  SEE DWG. No. AC2-2325

METRO CENTER STATION - CONCOURSE LEVEL SECTOR PLAN - H2

SCLAE  1/8" = 1' - 0"
METRO CENTER STATION - PLATFORM LEVEL SECTOR PLAN - D4
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MATCHLINE SEE DWG. NO. AC2-3315

3-1

3-2

3-3

3-4

3-5

3-6

OPEN TO BELOW

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GREGORY T. D. TALLOS, AIA NCARB LEED AP BD+C, TX LICENCE NO. 26520
ON 03/06/2020
HDR ENGINEERING, INC. TBPE FIRM NO. F -754
THIS DOCUMENT IS NOT FOR REGULATORY APPROVAL, BIDDING, PERMITTING, OR CONSTRUCTION.

COMMERCE STATION-MIDDLE MEZZANINE SECTOR PLAN - D1
SCALE: 1/8" = 1'-0"
MATCHLINE SEE DWG. No. AC2-3411

MATCHLINE SEE DWG. No. AC2-3414

MATCHLINE

COMMERCE STATION-LOWER MEZZANINE LEVEL SECTOR PLAN - C1

SCALE: 1/8" = 1' - 0"

DART PROJECT
LIGHT RAIL TRANSIT SYSTEM
LINE SECTION C1

HDR ENGINEERING, INC.
TBPE FIRM NO. F-754
17111 PRESTON RD SUITE 300, DALLAS, TX 75248

NOT FOR CONSTRUCTION
NOT AN APPROVED DRAWING
PRELIMINARY 20% DESIGN

IN-PROGRESS

COMMERCIAL PRINTING, INC.
125 OF 217

100466
402-597

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GREGORY T. D. TALLOS, AIA NCARB
LEED AP BD+C, TX LICENCE NO. 26520
ON 03/06/2020

HDR ENGINEERING, INC.

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MATCHLINE SEE DWG. No. AC2-3412

MATCHLINE SEE DWG. No. AC2-3418

MATCHLINE SEE DWG. No. AC2-3414

MATCHLINE SEE DWG. No. AC2-3416

MATCHLINE SEE DWG. No. AC2-3412

MATCHLINE

MAGNOLIA HOTEL STRUCTURAL FOUNDATION DATUM

MAGNOLIA DALLAS ABOVE

COMMERCE STATION-LOWER MEZZANINE LEVEL SECTOR PLAN - C2

SCALE: 1/8" = 1' - 0"

COMMERCE STATION-LOWER MEZZANINE LEVEL SECTOR PLAN - C2

SCALE: 1/8" = 1' - 0"
COMMERCe LONGITUDINAL SECTION - AC2-3012

COMMERCe LONGITUDINAL SECTION - CONT.
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This illustration is graphic in nature and includes context outside the limits of the D2 project. Elements are subject to change. Engineering and Architectural plans, profiles and details govern.
CBD EAST STATION - MAIN HEADHOUSE BOH ELEVATION - NORTH

CBD EAST STATION - MAIN HEADHOUSE BOH ELEVATION - SOUTH

CBD EAST STATION - MAIN HEADHOUSE BOH ELEVATION - WEST

CBD EAST STATION - MAIN HEADHOUSE BOH ELEVATION - EAST
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This illustration is graphic in nature and includes context outside the limits of the D2 project. Elements are subject to change. Engineering and Architectural plans, profiles and details govern.
NOTES:
1. Track rails are indicated for information only.
2. Top of rails 0'-6".
3. For contact location in column see sheet AC2-5002.
4. All possible rail locations are shown.
5. All warning strips to be type A unless noted otherwise. See sheet AC2-5000.
6. For one dimension detail, see sheet AC2-5001.
7. For windscreen types WS-2 and WS-5, see sheet AC2-5004.
8. For bicycle rack and trash receptacle, see sheet AC2-5002.
9. Platform cross slope down from track end, 5' 1", and 5' 1 1/2" direction, may vary.
10. Designed to adjust from 5 1/2% to a minimum slope of less than 4.75% according to track slope.
11. See irrigation drawings for more details.
NOT FOR CONSTRUCTION

NOT AN APPROVED DRAWING

PRELIMINARY 20% DESIGN

CONTRACT SHEET No.

PARTIAL PLAN C

LIVE OAK STATION

PLATFORM

PARTIAL PLAN B

SCALE N=1'-0"

1. TRACK RAILS ARE INDICATED FOR INFORMATION PURPOSE ONLY.
2. TOP OF RAIL=0'-0".
3. ALL POSSIBLE TVM LOCATIONS ARE SHOWN.
4. FOR VMB STANCHION DETAIL, SEE SHEET AS2-0009.
5. ALL WARNING STRIPS TO BE TYPE A UNLESS NOTED OTHERWISE. SEE SHEET AS1-0007.
6. FOR FUTURE CCTV POLE (NIC), SEE SHEET AC5-0010.
7. PLATFORM CROSS SLOPE DOWN FROM TRACK No. 1, MAX. % 1.75. DIRECTION MAY VARY.
9. PLATFOR M CROSS SLOPE DOWN FROM TRACK No. 1, MAX. % 1.75. DIRECTION MAY VARY.
10. DESIGNER TO ADJUST LENGTH OF RAMP TO THE MIN. % 1, MAX. % 1.75. DIRECTION MAY VARY.
11. SEE IRRIGATION DRAWINGS FOR HOSE BIBBS.
12. SEE NOTE 6 FOR VMB STANCHION DETAIL.
OVERALL ROOF PLAN

NOTES:

1. SEE STRUCTURAL DRAWINGS FOR PLATFORM GRADE.
2. SEE CIVIL DRAWINGS FOR WALL, RAIL, AND RETAINING WALL GRADE.
3. SEE A04-0010 DRAWING FOR INFORMATION ON CATENARY SUPPORTS.
4. SEE SYSTEMS DRAWINGS FOR CATENARY POLE DETAILS. SEE FINAL DESIGN DRAWINGS.

OVERALL ELEVATION

NOT FOR CONSTRUCTION
NOT AN APPROVED DRAWING
PRE-JANUARY 20% DESIGN

IN-PROGRESS

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION CBD-2
LIVE OAK STATION
OVERALL ROOF PLAN AND OVERALL ELEVATION

KAI DESIGN ID # 9010
ON 03/06/2020
DARREN L. JAMES, R.A. 18748
06 MAR 2020
PRELIMINARY 20% DESIGN
NOT AN APPROVED DRAWING
NOT FOR CONSTRUCTION
NOTES:
1. SEE SIGNAGE STANDARD DRAWINGS FOR SIGN TYPES.
2. S8.20 POST (AS9-0015) OR FENCE (AS9-0014) MAY VARY PER SITE CONDITIONS.
NOTES:
1. SEE SIGNAGE STANDARD DRAWINGS FOR SIGN TYPES.
2. SOLID POST (AC9-2013) OR FENCE (AC9-2014) MOUNT PER SITE CONDITIONS.

MATCH LINE
SE-1 SB
PLATFORM
SE-1 NB

MOUNT PER SITE CONDITIONS.
2. S8.20 POST (AC9-0015) OR FENCE (AC9-0014)
1. SEE SIGNAGE STANDARD DRAWINGS FOR SIGN TYPES.

NOTES:
1. SEE SIGNAGE STANDARD DRAWINGS FOR SIGN TYPES.
2. SOLID POST (AC9-2013) OR FENCE (AC9-2014) MOUNT PER SITE CONDITIONS.

MATCH LINE
SE-1 SB
PLATFORM
SE-1 NB

MATCH LINE
SE-1 SB
PLATFORM
SE-1 NB
NOTES:

1. SEE STRUCTURAL DRAWINGS FOR HEIGHT OF CANOPY. SUCH HEIGHT IS RELATIVE TO TOP OF PLATFORM AND WILL VARY SLIGHTLY DEPENDING ON SITE SPECIFIC CONDITIONS. SEE FINAL DESIGN DRAWINGS.

2. 8'-4" DIMENSION FOR HEIGHT OF COLUMN CLADDING IS MINIMUM HEIGHT BASED ON A LEVEL PLATFORM ELEVATION. IN ORDER TO MAINTAIN A LEVEL CONDITION, THE COLUMN BASE HEIGHT WILL INCREASE ONLY AS PLATFORM GRADE VARIES. THE COLUMN HEIGHT WILL INCREASE RELATIVE TO TOP OF CANOPY PER PLATFORM SLOPE.

3. FOR PAINT AND FINISH SCHEDULE SEE FINAL DESIGN DRAWINGS.

4. STEP WINDSCREEN WITH PLATFORM SLOPE BUT MAINTAIN SEE FINAL DESIGN DRAWINGS.

5. SEE STRUCTURAL PLANS FOR PLATFORM GRADE. SCREEN FRAME PLUMB AND LEVEL.

1. SEE STRUCTURAL DRAWINGS FOR HEIGHT OF CANOPY.

2. 8'-4" DIMENSION FOR HEIGHT OF COLUMN CLADDING IS MINIMUM HEIGHT BASED ON A LEVEL PLATFORM ELEVATION. IN ORDER TO MAINTAIN A LEVEL CONDITION, THE COLUMN BASE HEIGHT WILL INCREASE ONLY AS PLATFORM GRADE VARIES. THE COLUMN HEIGHT WILL INCREASE RELATIVE TO TOP OF CANOPY PER PLATFORM SLOPE.

THE COLUMN BASE HEIGHT SHALL INCREASE RELATIVE TO TOP OF PLATFORM, AND WILL VARY SLIGHTLY DEPENDING ON SITE SPECIFIC CONDITIONS. SEE FINAL DESIGN DRAWINGS.

THE COLUMN HEIGHT WILL INCREASE ONLY AS PLATFORM GRADE VARIES. THE COLUMN HEIGHT WILL INCREASE RELATIVE TO TOP OF CANOPY PER PLATFORM SLOPE.

1. 8'-4" DIMENSION FOR HEIGHT OF COLUMN CLADDING IS MINIMUM HEIGHT BASED ON A LEVEL PLATFORM ELEVATION. IN ORDER TO MAINTAIN A LEVEL CONDITION, THE COLUMN BASE HEIGHT WILL INCREASE ONLY AS PLATFORM GRADE VARIES. THE COLUMN HEIGHT WILL INCREASE RELATIVE TO TOP OF CANOPY PER PLATFORM SLOPE.

2. 8'-4" DIMENSION FOR HEIGHT OF COLUMN CLADDING IS MINIMUM HEIGHT BASED ON A LEVEL PLATFORM ELEVATION. IN ORDER TO MAINTAIN A LEVEL CONDITION, THE COLUMN BASE HEIGHT WILL INCREASE ONLY AS PLATFORM GRADE VARIES. THE COLUMN HEIGHT WILL INCREASE RELATIVE TO TOP OF CANOPY PER PLATFORM SLOPE.

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ELEVATION. IN ORDER TO MAINTAIN A LEVEL SIGNBAND THE COLUMN BASE HEIGHT WILL INCREASE ONLY AS PLATFORM GRADE VARIES. THE COLUMN HEIGHT WILL INCREASE RELATIVE TO TOP OF CANOPY PER PLATFORM SLOPE.

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STEEL COLUMN

2½" or 3½" CONDUIT
FOR CANOPY LIGHTS
PARTIAL PLANS

TYPICAL FOR COLUMNS

COLUMN A/1

D/1 & H/1
NO SCALE

TYPICAL DETAIL

COLUMN M/1

E/1 & J/1
NO SCALE

NOT FOR CONSTRUCTION
NOT AN APPROVED DRAWING
PRE-JANUARY 20% DESIGN

CONTRACT SHEET No.

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION CBD-2
LIVE OAK STATION
CONDUIT LOCATIONS AT COLUMNS

IN-PROGRESS

KAI TEXAS ID # 9010
ON 03/06/2020

DARREN L. JAMES, R.A. 18748
06 MAR 2020

PRELIMINARY 20% DESIGN
NOT AN APPROVED DRAWING
NOT FOR CONSTRUCTION

www.kai-db.com
T. 214.742.0400 - F. 817.288.0952
101 North Zang Blvd, Suite 100, Dallas, TX 75208

DART PROJECT

CONTRACT

eree.png
AT-GRADE EMBEDDED TRACK - PROPOSED LIVE OAK STATION (CURRENT DESIGN WITH PLANTER/ADA SAFE ZONE)

1. All sections are looking upstation. All rail and signage riding on the outside edge of the guideway track for SE-1.
2. Planters/ADA Safe Zone allows pedestrian crossing on northbound and southbound N. Good Latimer Exp'y.
3. Crosswalks shown of station is restricted for pedestrian crossing on northbound and southbound N. Good Latimer Exp'y. Additional pedestrian crossing permitted for pedestrian movement through station.

NOTES:

- BRICK COLUMN FOR FENCE (SEE NOTE 1)
- FENCE/BARRIER (SEE NOTE 2)
- ADA SAFE ZONE (NO RELOCATION)
- PROPOSED ROW (NO RELOCATION)

SIDEWALK: 21'-0" to 33'-0"
PLANTER: 3'-9" to 6'-6"
FENCE/BARRIER: 3'-6" to 0'-0"
FOUNDATION: 4'-0" to 0'-0"
CATENARY POLE: Varies - APPROX. 5'-6" TO 1'-6"
AT-GRADE EMBEDDED TRACK - PROPOSED LIVE OAK STATION (ALTERNATIVE DESIGN WITH LIMITED SOUTH STATION CROSSWALK)
NOT FOR CONSTRUCTION
NOT AN APPROVED DRAWING
PRELIMINARY 20% DESIGN

LIGHT RAIL TRANSIT SYSTEM
LINE SECTION CBD-2
LIVE OAK STATION
CHURCH PROPERTY IMPACTS
STATION PLANTERS ON NB TRACK

NOTES:
1. THE 3'-FT PLANTER WIDTH PROVIDES AN ADA SAFE ZONE BETWEEN THE NB TRACK AND NB STREET TRAFFIC.
2. THE 3'-FT PLANTER WIDTH PROVIDES ENOUGH SPACE BETWEEN THE NB TRACK AND NB STREET TRAFFIC.

IN-PROGRESS

DART PROJECT

DRAWN
T. SHELTON
A. STAHLNECKER
A. STAHLNECKER
D. BROWN

AS SHOWN

SHERWIN WILLIAMS
(SEE NOTE 1)

PLANTER WIDTH
16+00
17+00

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NOT FOR CONSTRUCTION

NOT AN APPROVED DRAWING

PRELIMINARY 20% DESIGN

NOTES:

(SEE NOTE 1)

1. THE 1-FT. BARRIER DOES NOT PROVIDE AN ADA SAFE ZONE BETWEEN THE NB TRACK AND NB STREET TRAFFIC, THEREFORE THE CROSSINGS AT NB N. GOOD LATIMER EXPY. ARE ELIMINATED.

2. THE 1-FT. BARRIER DOES NOT PROVIDE AN ADA SAFE ZONE BETWEEN THE NB TRACK AND NB STREET TRAFFIC, THEREFORE THE CROSSINGS AT NB N. GOOD LATIMER EXPY. ARE ELIMINATED.