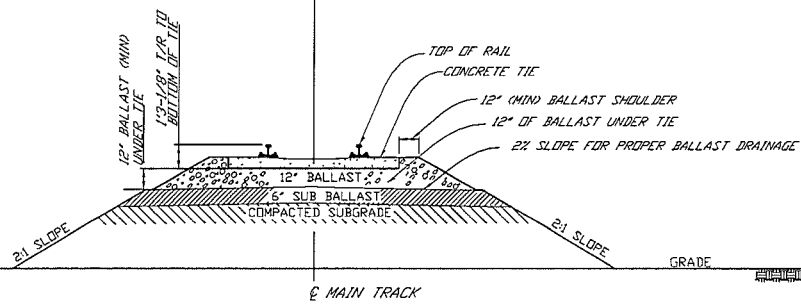


100' (STD RAILROAD RIGHT-OF-WAY)

50'
DISTANCE VARIES

50'
DISTANCE VARIES

€ MAIN TRACK



∞∞ UNDERGROUND
FIBER OPTIC CABLES
SHOWN AS INFORMATION
ONLY. MUST BE
FIELD VERIFIED

∞∞ UNDERGROUND
FIBER OPTIC CABLES
SHOWN AS INFORMATION
ONLY. MUST BE
FIELD VERIFIED

NOTE:

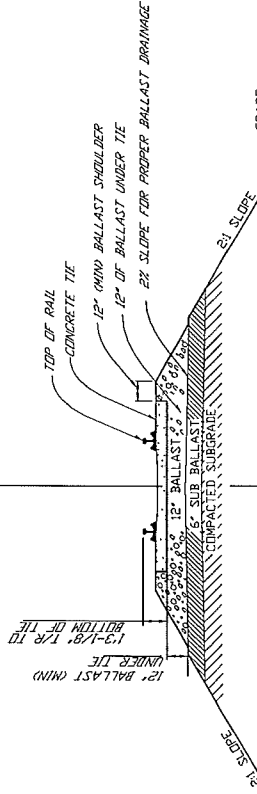
1. RAIL - 136# CWR (SEE ES3013.0)
2. TIE PLATE - PANDROL STEEL TIE PLATE (SEE ES8005.0)
3. FASTENERS - VOSSLÖH TIE CLIPS (SEE ES6008.1)
4. CONCRETE TIES - (SEE ES6008.1)
5. BALLAST - 12" (304.8mm) GRADE 3 GRANITE BALLAST MINIMUM
6. SUB BALLAST - 6" (152.4mm) COMPACTED (AT RAILWAYS DISCRETION)
7. SUBGRADE - COMPACTED SUBGRADE TO 95%
STANDARD PROCTOR ASTM D-698

100' STD RAILROAD RIGHT-OF-WAY

± MAIN TRACK

50' DISTANCE VARIES

50' DISTANCE VARIES



GRADE

± MAIN TRACK

UNDERGROUND CABLES
SHOWN AS INFORMATION
ONLY. MUST BE
FIELD VERIFIED

UNDERGROUND
FIBER OPTIC CABLES
SHOWN AS INFORMATION
ONLY. MUST BE
FIELD VERIFIED

- NOTE:
1. RAIL - 136# CWR (SEE ES3013.0)
 2. TIE PLATE - PANDROL STEEL TIE PLATE (SEE ES8005.0)
 3. FASTENERS - VOSSLÖH TIE CLIPS (SEE ES6008.1)
 4. CONCRETE TIES - (SEE ES6008.1)
 5. BALLAST - 12" (304.8mm) GRADE 3 GRANITE BALLAST MINIMUM
 6. SUB BALLAST - 6" (152.4mm) COMPACTED (AT RAILWAYS DISCRETION)
 7. SUBGRADE - COMPACTED SUBGRADE TO 95% STANDARD PROCTOR ASTM D-698

FILE	ES8092.1
REVISIONS	



Issue Date: 03-23-2012
 Author: [Signature]
 Director Engineering Services

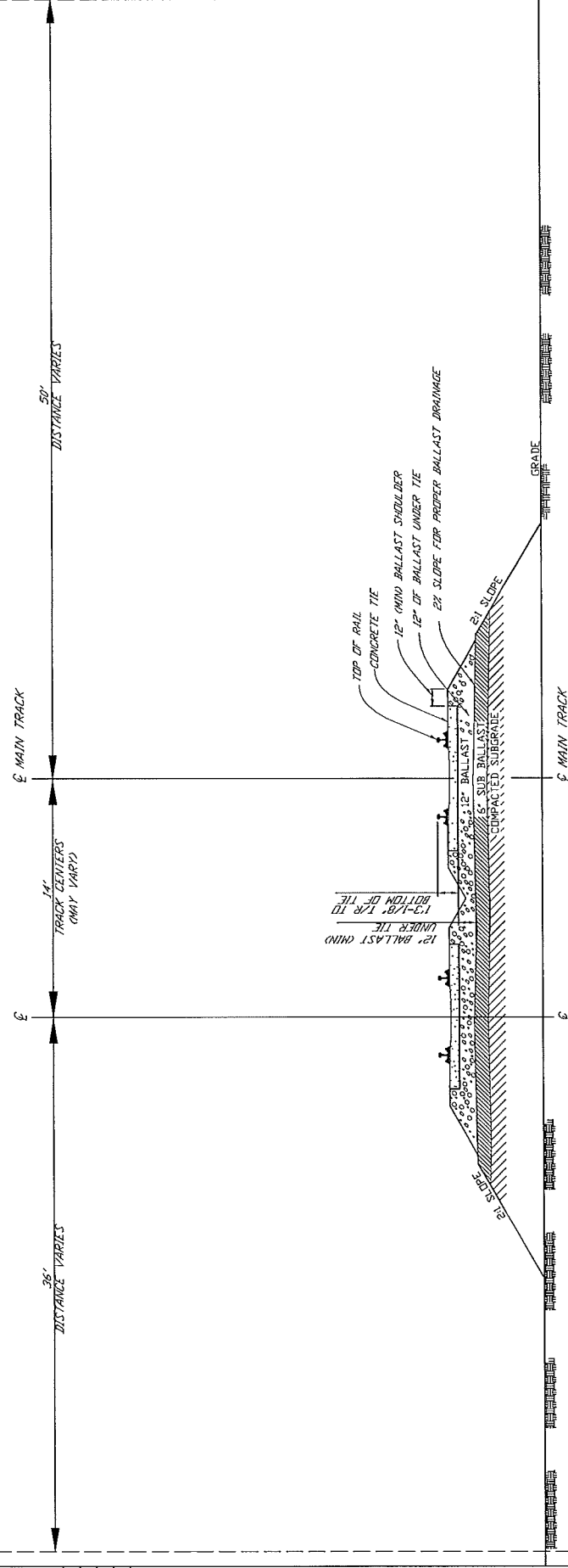
The material and equipment shown herein must meet or exceed all quality requirements. Any deviation from the original design or construction must be in writing and approved by the Railroad Director or Engineering Services prior to use.

Miscellaneous
 SERIES: 8800

MAINLINE (SINGLE TRACK)
 CROSS-SECTION
 (14' CENTERS)

ES8092.1
 SH. 1 OF 3

100' STD RAILROAD RIGHT-OF-WAY



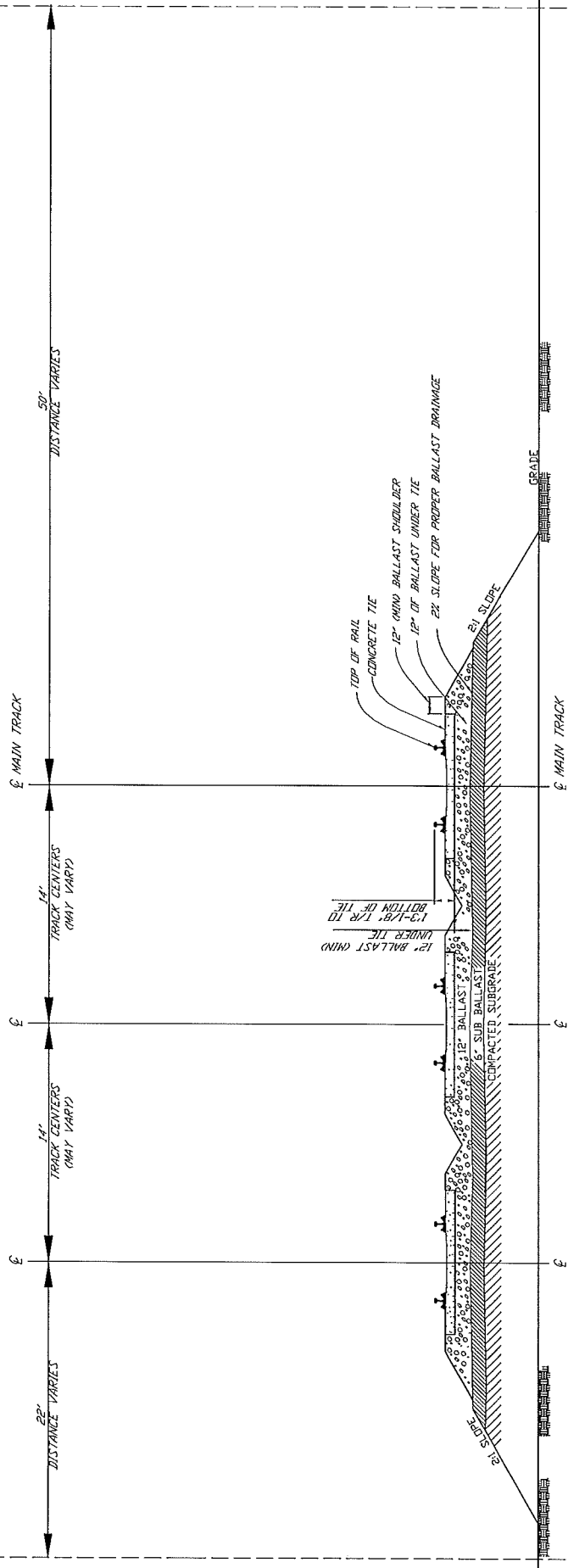
- NOTE:
1. RAIL - 136# CWR (SEE ES3013.0)
 2. TIE PLATE - PANDROL STEEL TIE PLATE (SEE ES8005.0)
 3. FASTENERS - VDSLODH TIE CLIPS (SEE ES6008.1)
 4. CONCRETE TIES - (SEE ES6008.1)
 5. BALLAST - 12" (304.8mm) GRADE 3 GRANITE BALLAST MINIMUM
 6. SUB BALLAST - 6" (152.4mm) COMPACTED CAT RAILWAYS DISCRETION
 7. SUBGRADE - COMPACTED SUBGRADE TO 95% STANDARD PROCTOR ASTM D-698

○○○ ——— UNDERGROUND FIBER OPTIC CABLES SHOWN AS INFORMATION ONLY, MUST BE FIELD VERIFIED

<p>FLORIDA EAST COAST RAILWAY ENGINEERING SERVICES STANDARDS REFERENCE MANUAL</p>	<p>Issue Date: 03-23-2012</p>	<p>Revised Date:</p>	<p>ES8092.1 SH. 2 OF 3</p>
	<p>Authorized: <i>[Signature]</i> Director Engineering Services</p>	<p>Miscellaneous</p>	
<p>The material and equipment shown herein must meet or exceed all quality requirements. Any deviation from these standards shall be noted in writing and approved by the Railroad Director or Engineering Services prior to use.</p>			

FILE	ES8092.1
REVISIONS	

100' STD RAILROAD RIGHT-OF-WAY



○○○ UNDERGROUND FIBER OPTIC CABLES SHOWN AS INFORMATION ONLY. FIELD VERIFIED

- NOTE:
1. RAIL - 136# CWR (SEE ES3013.0)
 2. TIE PLATE - PANDROL STEEL TIE PLATE (SEE ES8005.0)
 3. FASTENERS - VOSSLICH TIE CLIPS (SEE ES6008.1)
 4. CONCRETE TIES - (SEE ES6008.1)
 5. BALLAST - 12" (304.8mm) GRADE 3 GRANITE BALLAST MINIMUM
 6. SUB BALLAST - 6" (152.4mm) COMPACTED AT RAILWAYS DISCRETION
 7. SUBGRADE - COMPACTED SUBGRADE TO 95% STANDARD PROCTOR ASTM D-698

FILE	ES8092.1
REVISIONS	



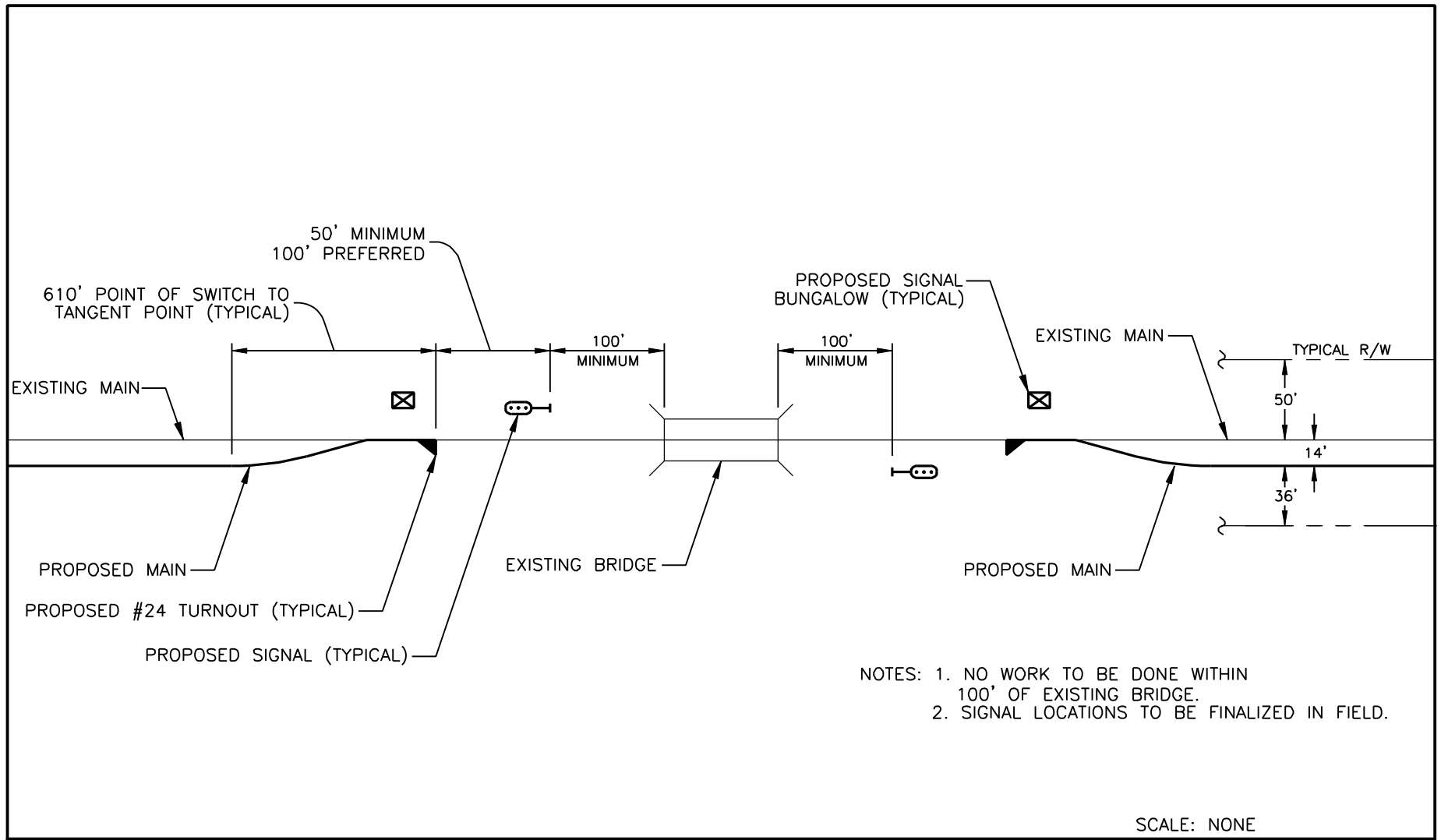
Issue Date: 03-23-2012
 Revised Date:
 Author: [Signature]
 [Signature] Project Engineer, E.C.R. Services

The material and equipment shown herein must meet or exceed a quality level as determined by the Railroad Director and approved by the Railroad Director of Engineering Services prior to use.

Miscellaneous
 SERIES 8000

MAINLINE (TRIPLE TRACK)
 CROSS-SECTION
 (14' CENTERS)

ES8092.1
 SH. 3 OF 3



HDR
 HDR ENGINEERING, INC.
 200 W. FORSYTH STREET, STE. 800
 JACKSONVILLE, FLORIDA 32202-4321
 19041 598-8900

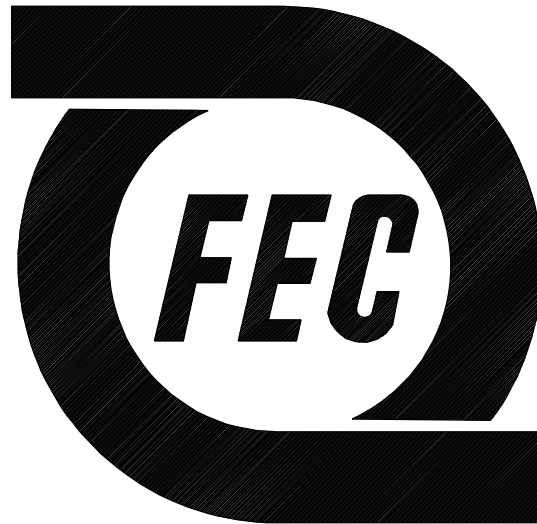
FEC
 FLORIDA EAST COAST RAILWAY CO.
 OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

TYPICAL TRACK PLAN AT EXISTING BRIDGE

JULY 27, 2012

DRAWING NO.

*FLORIDA EAST COAST RAILWAY
TRACK CHART*



*IMPROVEMENTS FOR PROPOSED PASSENGER SERVICE
WEST PALM BEACH, FL TO MIAMI, FL*

JULY 27, 2012



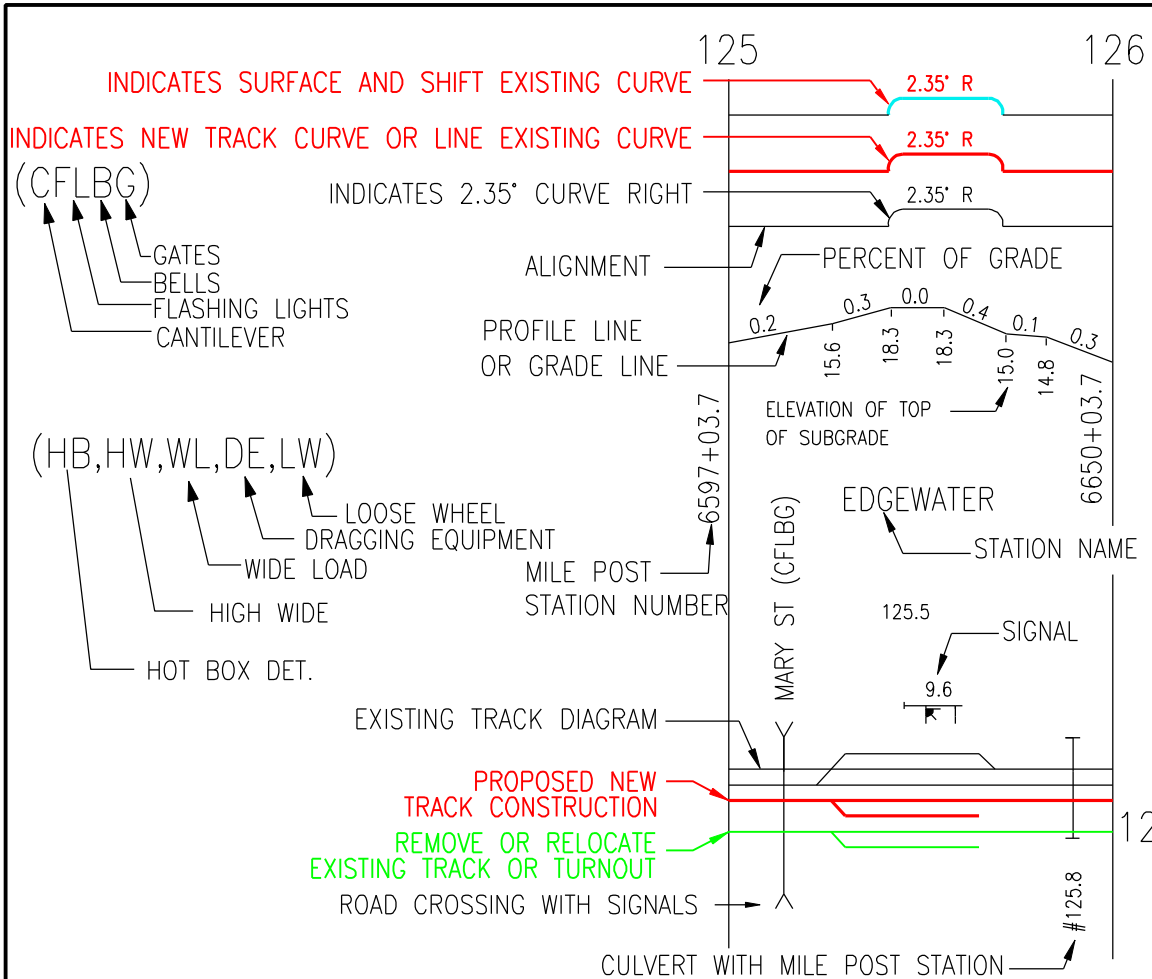
HDR ENGINEERING, INC.
200 W. FORSYTH STREET, STE. 800
JACKSONVILLE, FLORIDA 32202-4321
19041 598-8900



FLORIDA EAST COAST RAILWAY CO.
OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

JULY 27, 2012

DRAWING NO.
1 of 18



EXPLANATIONS

SYMBOLS

- ROAD CROSSING _____ Y
- CULVERT (SINGLE) _____ I
- CULVERT (DOUBLE) _____ II
- RAIL LUBRICATOR _____ X
- BOX CULVERT OR SMALL BRIDGE _____ III
- BRIDGE _____ IV
- HOT BOX DETECTOR _____ B
- SIGNALS _____ 9.6
- SLIP SWITCH _____ /

NOTES

1. ELEVATIONS REFER TO NGV DATUM
2. ALL CURVE INFORMATION IS SHOWN IN DEGREE AND DECIMAL OF DEGREE.

FOR CHECKING OF LOCOMOTIVE SPEED INDICATORS

MEASURED MILE

NOTE: PROPOSED NEW SIGNAL LOCATIONS ARE NOT SHOWN.

YEAR OF CONSTRUCTION → 1970

PILE TYPE → SSPP

TYPE OF DECK → WOD-BMS

LENGTH OF BRIDGE → 300'

HEIGHT OF BRIDGE → 19'

BRIDGE NUMBER → BR 119.05

BRIDGE AND CULVERT PIPE EXPLANATIONS

WATER NAME → SPRUCE CREEK

LENGTH OF SPAN → 25'

NUMBER OF SPANS → 12 SPANS

DECK TYPES
 WOOD OPEN DECK _____ WOD
 CONCRETE OPEN DECK _____ COD
 BALLAST DECK _____ BD
 BALLAST DECK BOX BEAM _____ BDBB
 BALLAST DECK CONCRETE DECK SLABS _____ BDCDS
 WALKS - HANDRAILS _____ WH

SPAN TYPE
 TRESTLE 10' _____ T10
 TRESTLE 12' _____ T12
 TRESTLE 15' _____ T15
 BEAM SPANS _____ BMS
 DECK PLATE GIRDER _____ DPG
 VIADUCTS _____ VIA
 PILE TRESTLE _____ PT

PILE TYPE
 STRUCTURAL STEEL PIPE PILE _____ SSPP

TYPE OF PIPE → RCP

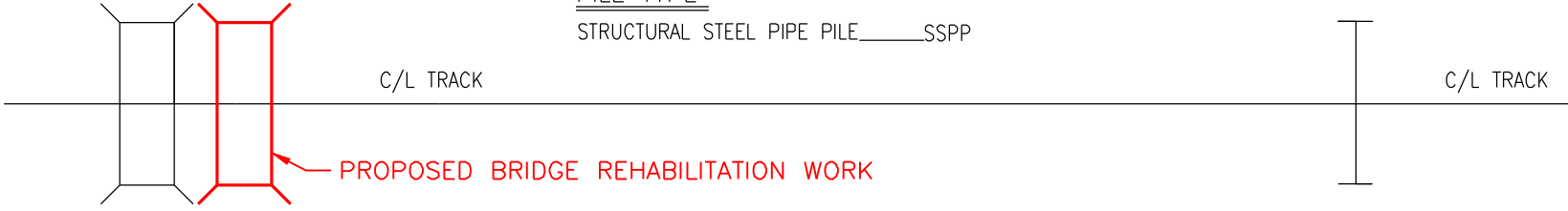
LENGTH →

SHAPE OF PIPE → OVL x 40'

SIZE OF PIPE → 36"

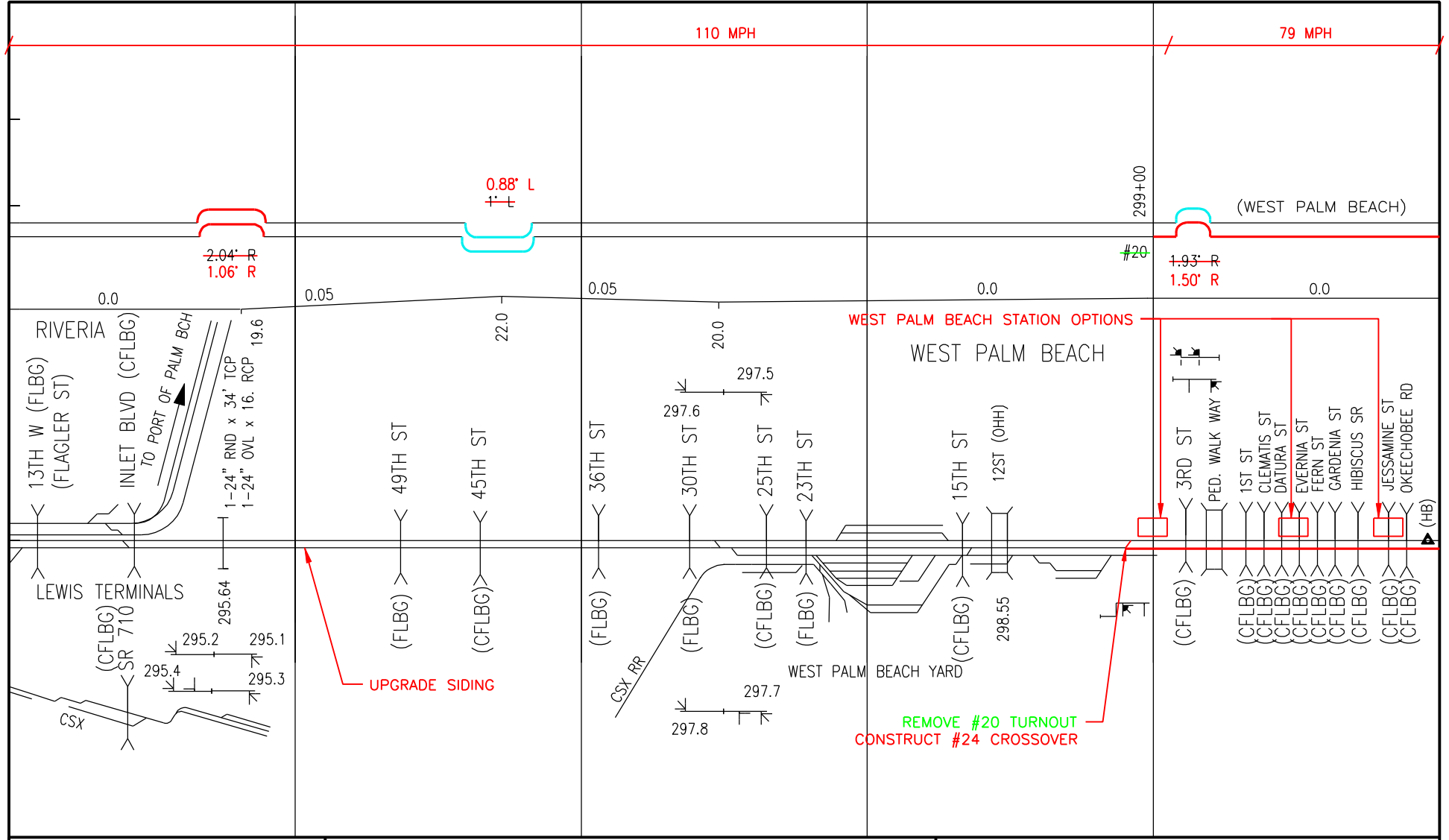
NUMBER OF PIPE → 1

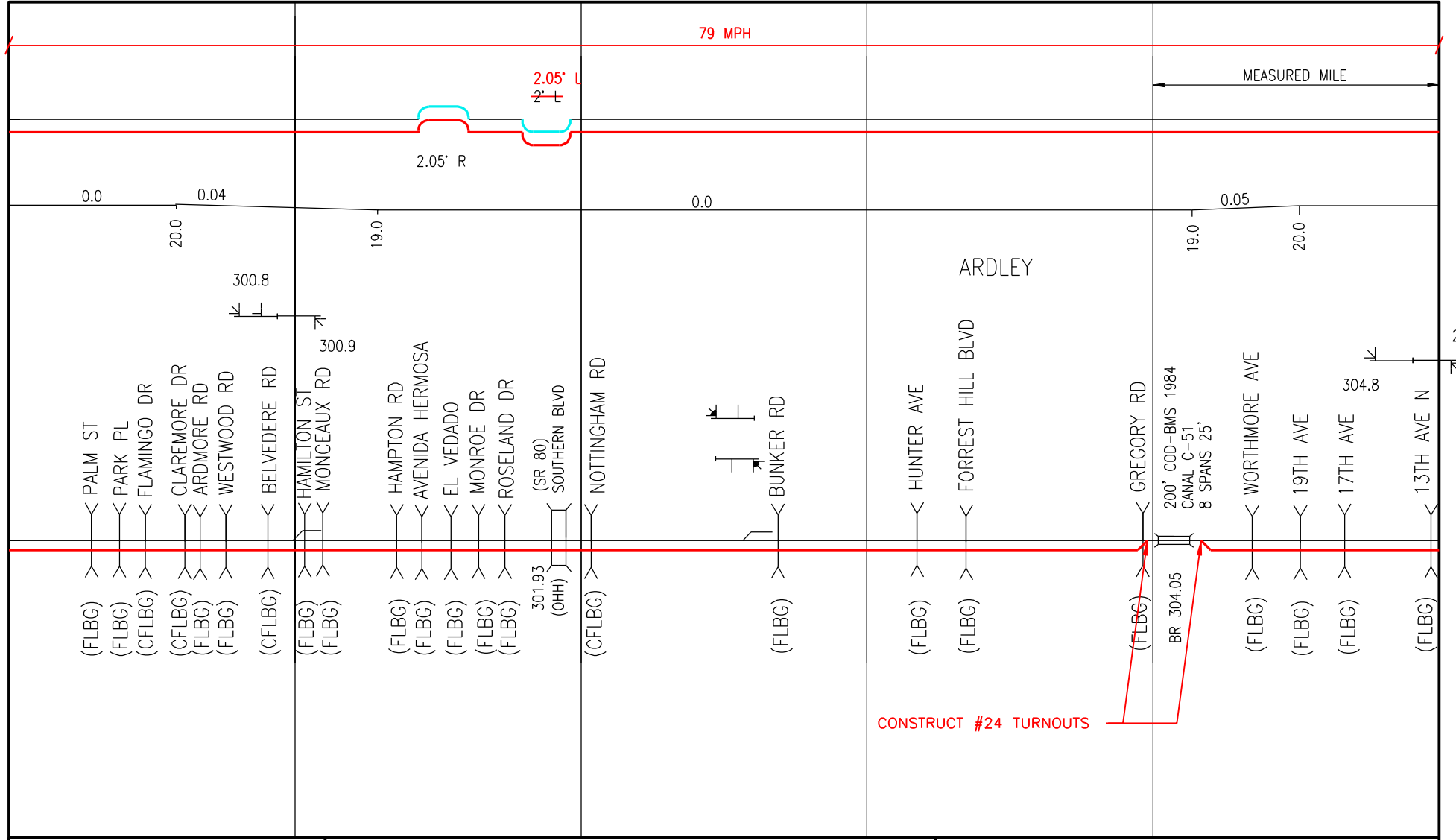
PIPE SHAPE
 ARCH _____ ARH
 BOX _____ BOX
 OVAL _____ OVL
 ROUND _____ RND



PIPE TYPE
 CORRUGATED METAL PIPE _____ CMP
 CAST IRON PIPE _____ CIP
 TERRA COTTA PIPE _____ TCP
 REINFORCED CONCRETE PIPE _____ RCP

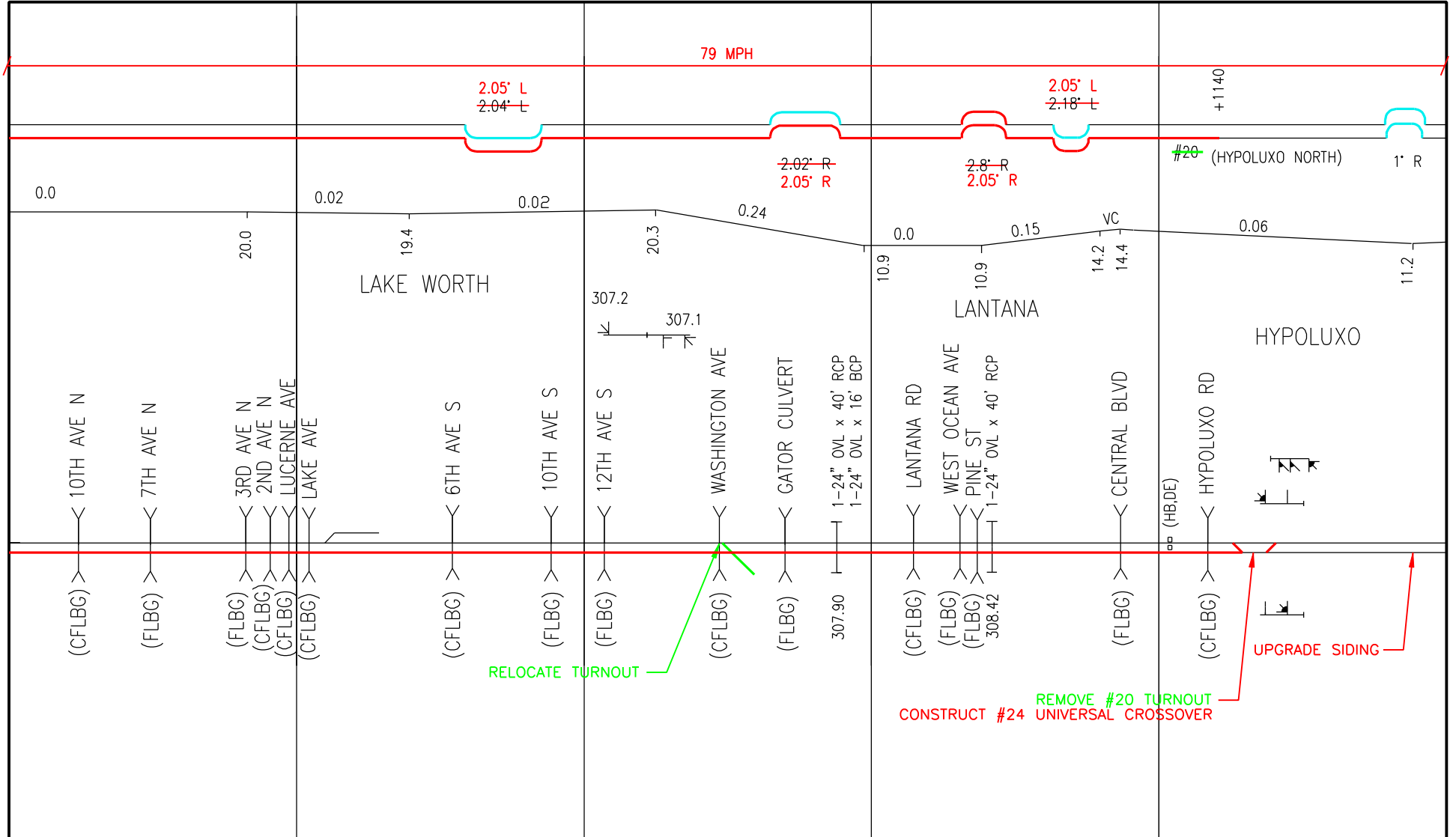
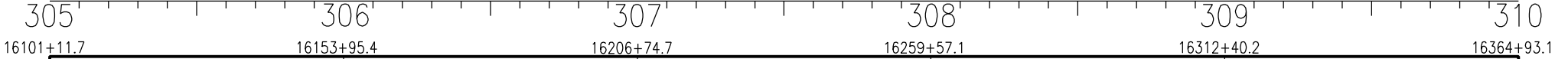
116.41 ← MILE POST NUMBER





TO JACKSONVILLE

TO MIAMI



RELOCATE TURNOUT

REMOVE #20 TURNOUT
CONSTRUCT #24 UNIVERSAL CROSSOVER

UPGRADE SIDING

HDR
 HDR ENGINEERING, INC.
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 JACKSONVILLE, FLORIDA 32202-4321
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 OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

FEC SHEET 61

JULY 27, 2012

DRAWING NO.

6 of 18

TO JACKSONVILLE

TO MIAMI

310 311 312 313 314 315

16364+93.1 16417+99.2 16470+80.0 16523+62.6 16576+45.3 16629+28.1

79 MPH

+1301

#20
(SOUTH HYPOLUXO)

0.05 0.0 0.05 0.0 0.05 0.04

14.4

14.4

17.1

17.1

17.6

BOYNTON

311.4

311.3

NE 15TH AVE

144' BDCDS-SSPP-WH-2007
BOYNTON CANAL
(C16)

ML KING JR BLVD

NE 6TH AVE

BOYNTON BCH BLVD

BOYNTON BCH TM TK
EAST OCEAN AVE

SE 5TH AVE

SE 12TH AVE

SE 15TH AVE

313.5
313.6

SE 23RD AVE

SE 36TH AVE

MINER RD

NE 22ND AVE

311.5

BR 311.45

UPGRADE SIDING

REMOVE #20 TURNOUT

CONSTRUCT #24 TURNOUTS



HDR ENGINEERING, INC.
200 W FORSYTH STREET, STE. 800
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(904) 598-8900



FLORIDA EAST COAST RAILWAY CO.
OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

FEC SHEET 62

JULY 27, 2012

DRAWING NO.
7 of 18

TO JACKSONVILLE

TO MIAMI

315 316 317 318 319 320

16629+28.1 16682+13.4 16734+94.2 16787+73.1 16840+52.3 16893+30.6

79 MPH

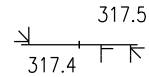
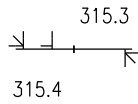
+ 3218

#20 (VILLA RICA NORTH)

0.0 0.05 0.01 0.07 21.3 0.0 0.07

20.2 20.0 21.0 20.6 19.0 21.3 21.8 21.8

DELRAY BEACH



RELOCATE TURNOUT

(FLBG) NE 14TH ST

(FLBG) NE 8TH ST

(FLBG) NE 4TH ST

(FLBG) NE 2ND ST

(FLBG) NE 1ST ST

(CFLBG) ATLANTIC AVE

(CFLBG) SE 1ST ST

(FLBG) SE 2ND ST

(FLBG) SE 4TH ST

(CFLBG) SE 10TH ST

(CFLBG) LINTON BLVD

(FLBG) LINDELL BLVD
173' CBD 1962
CANAL C15

(CFLBG) HIDDEN VALLEY BLVD



REMOVE #20 TURNOUT
CONSTRUCT #24 CROSSOVER

UPGRADE SIDING



HDR ENGINEERING, INC.
200 W FORSYTH STREET, STE. 800
JACKSONVILLE, FLORIDA 32202-4321
(904) 598-8900



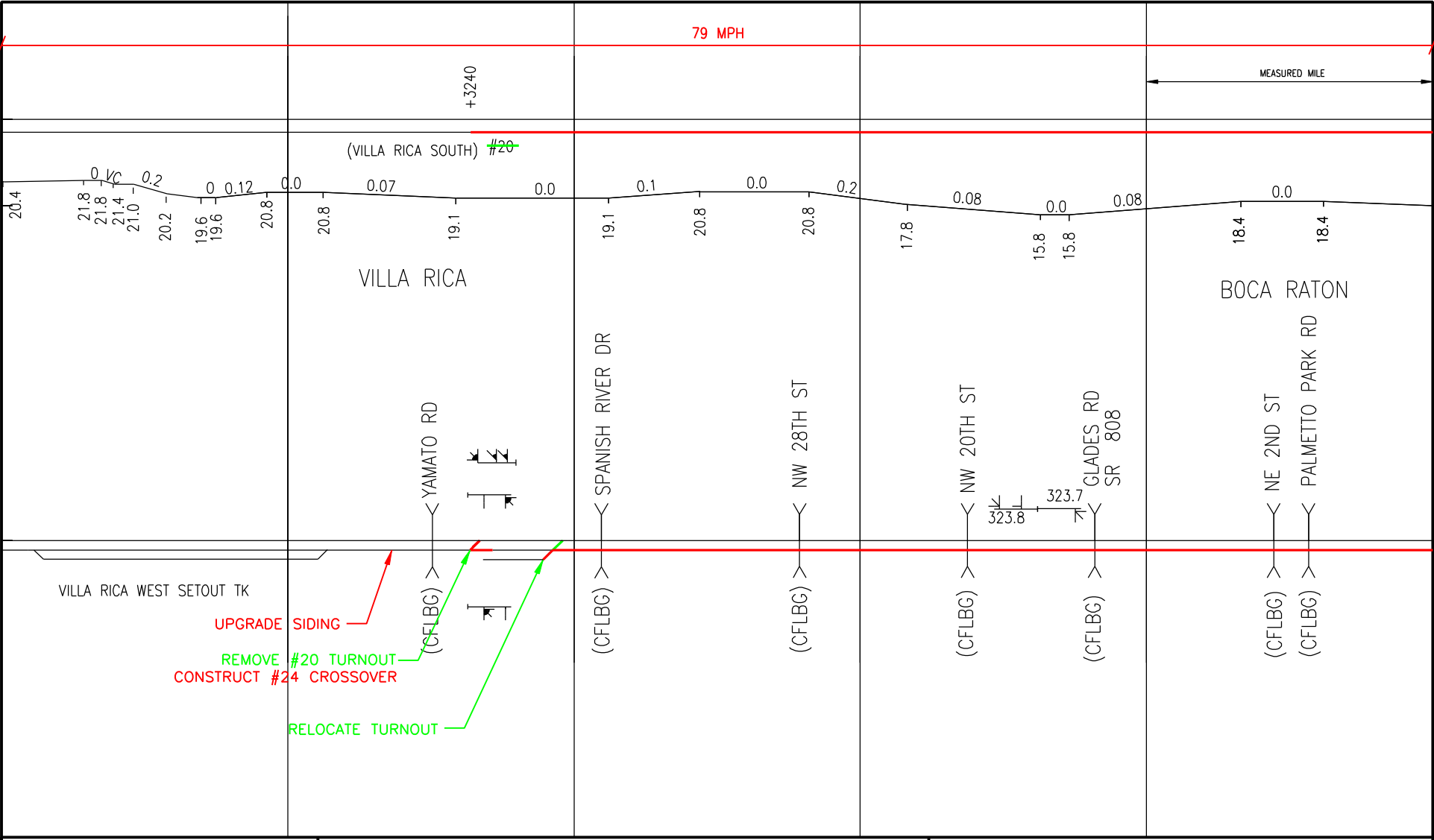
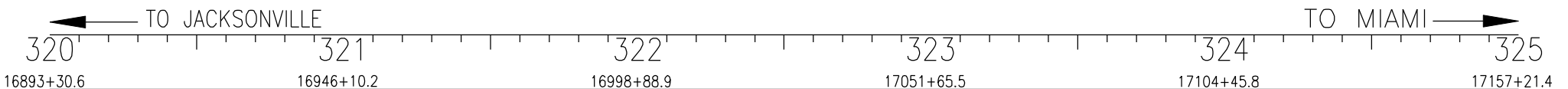
FLORIDA EAST COAST RAILWAY CO.
OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

FEC SHEET 63

JULY 27, 2012

DRAWING NO.

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 FLORIDA EAST COAST RAILWAY CO.
 OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

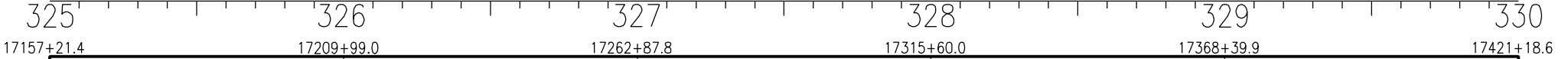
FEC SHEET 64

JULY 27, 2012

DRAWING NO.
9 of 18

TO JACKSONVILLE

TO MIAMI

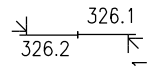
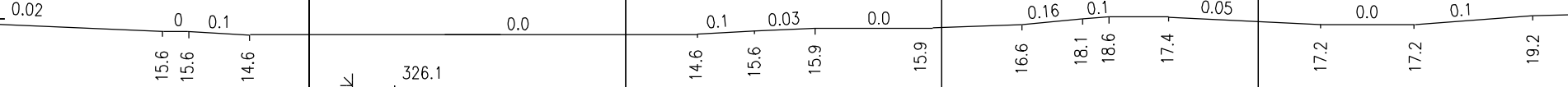


79 MPH

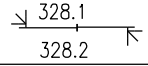
2.05' L
2.07' L

2' R
2.05' R

DEERFIELD



206' COD-BMS 1982
PALM BEACH CO MP 326+331.1
BROWARD CO (HILLSBORO RIVER)



(CFLBG) > EL CAMINO REAL

(CFLBG) > SW 18TH ST

BR 326.58

(FLBG) > NE 2ND ST

(CFLBG) > E HILLSBORO BLVD

(FLBG) > SW 4TH ST

(CFLBG) > SW 10ST

(CFLBG) > SW 15TH ST

(CFLBG) > NE 48TH ST

(CFLBG) > PRIVATE

CONSTRUCT #24 TURNOUTS



HDR ENGINEERING, INC.
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JACKSONVILLE, FLORIDA 32202-4321
(904) 598-8900



FLORIDA EAST COAST RAILWAY CO.
OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

FEC SHEET 65

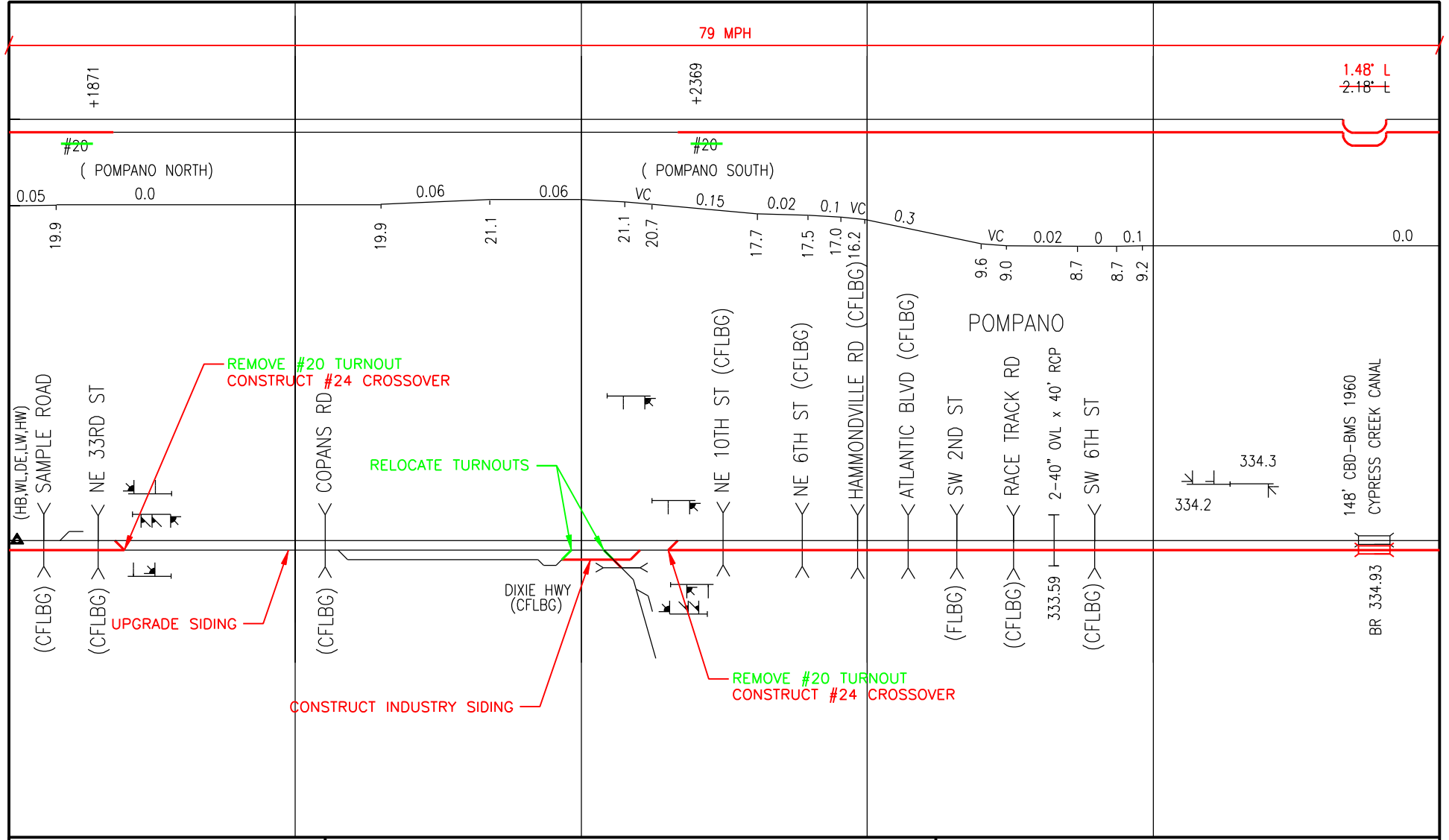
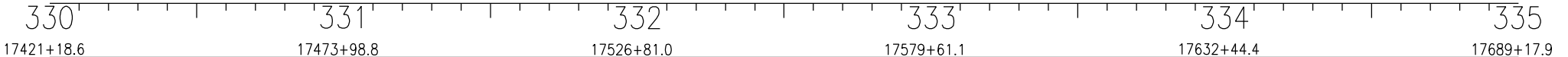
JULY 27, 2012

DRAWING NO.

10 of 18

TO JACKSONVILLE

TO MIAMI



HDR
 HDR ENGINEERING, INC.
 200 W FORSYTH STREET, STE. 800
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FLORIDA EAST COAST RAILWAY CO.
 OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

FEC SHEET 66

JULY 27, 2012

DRAWING NO.

II of 18

TO JACKSONVILLE

TO MIAMI

335 336 337 338 339 340

17689+17.9 17738+01.0 17790+83.4 17843+61.9 17896+43.7 17949+23.1

79 MPH

(WILTON MANORS)
#20
+4298

2.03' R
2.05' R

0.05 0.08 0.0 0.02 0.0 0.05 0.0 0.1 0.0

9.2 8.2 9.0 9.0 8.6 8.6 8.2 8.3 8.2

OAKLAND PARK

REMOVE #20 TURNOUT

CONSTRUCT #24 TURNOUT

CONSTRUCT #24 TURNOUT

(CFLBG) > CYPRESS CREEK RD

(CFLBG) > 3-60" ARH x 66' RCP
NE 56TH ST

(CFLBG) > COMMERCIAL BLVD

(FLBG) > NE 45TH ST

192' WOD-T12 1957
2-60" ARH x 66' RCP

(CFLBG) > NE 38TH ST

(FLBG) > NE 36TH ST

(CFLBG) > NE 34TH CT

(CFLBG) > OAKLAND PARK BLVD

BR 337.9
N. FORK MIDDLE RIVER

(CFLBG) > NE 26TH ST

(FLBG) > NE 24TH ST

BR 338.52
190' WOD-T12 1959
S FORK MIDDLE RIVER

(FLBG) > NE 17TH CT

338.7
338.6
1-18" OVL x 40' RCP
NE 13TH ST

(CFLBG) > SUNRISE BLVD



HDR ENGINEERING, INC.
200 W FORSYTH STREET, STE. 800
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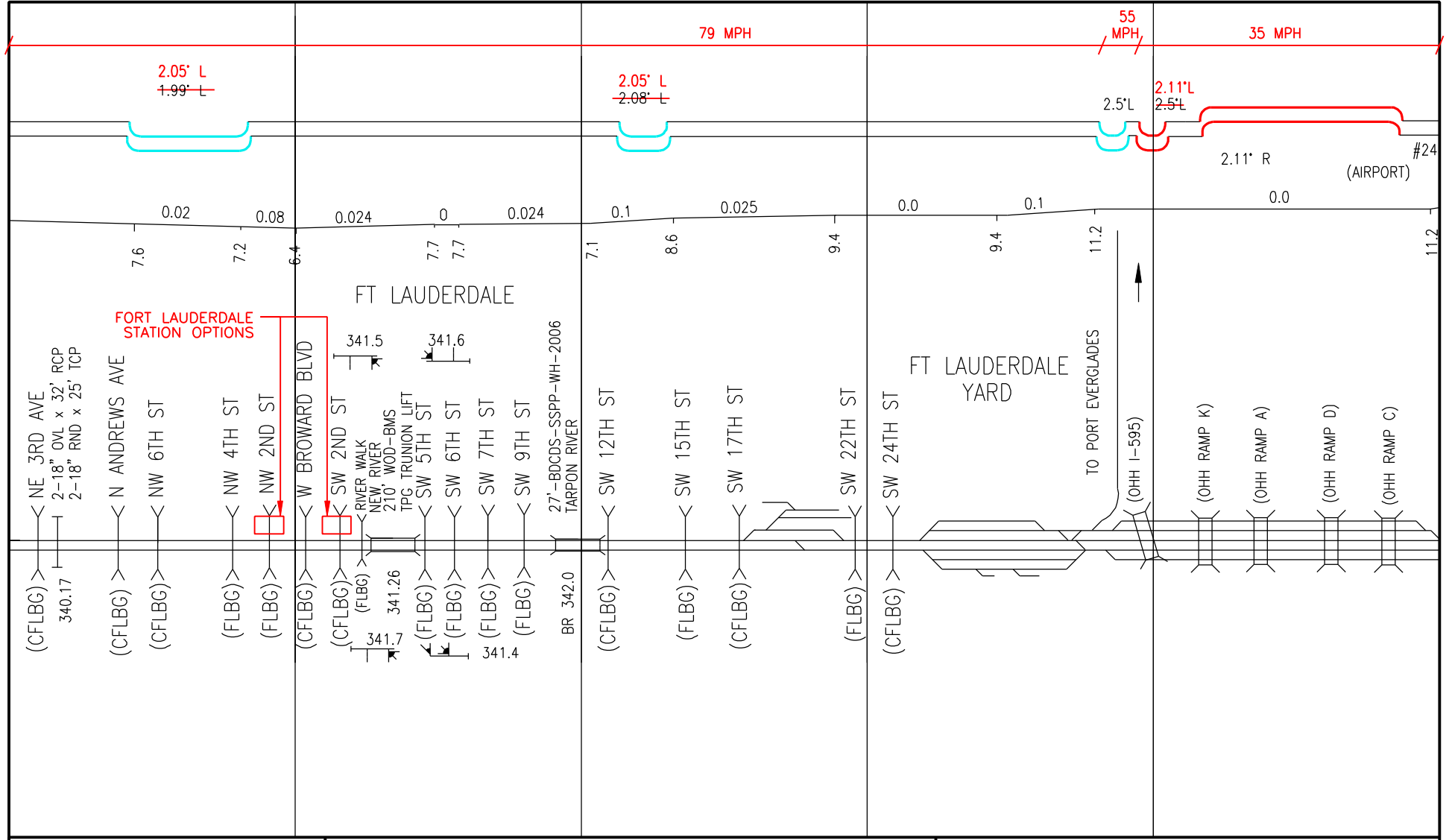
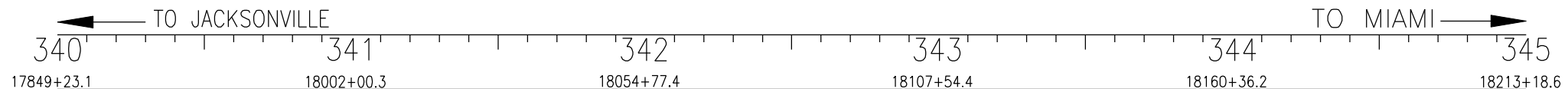


FLORIDA EAST COAST RAILWAY CO.
OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

FEC SHEET 67

JULY 27, 2012

DRAWING NO.
12 of 18



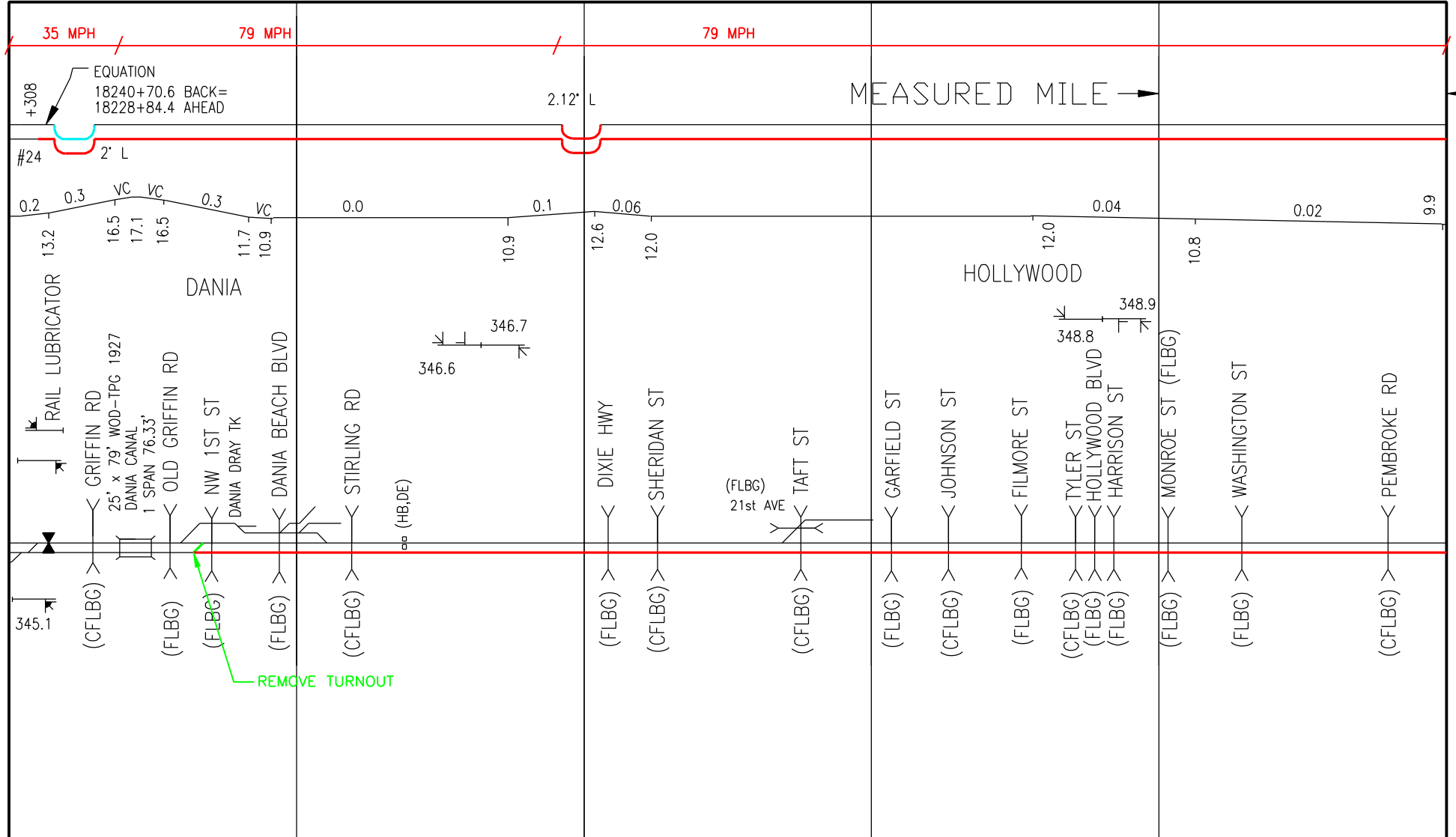
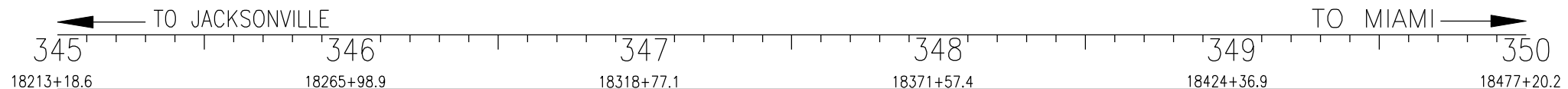
HDR
 HDR ENGINEERING, INC.
 200 W FORSYTH STREET, STE. 800
 JACKSONVILLE, FLORIDA 32202-4321
 (904) 598-8900

FEC
 FLORIDA EAST COAST RAILWAY CO.
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FEC SHEET 68

JULY 27, 2012

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 13 of 18



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FEC FLORIDA EAST COAST RAILWAY CO.
OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

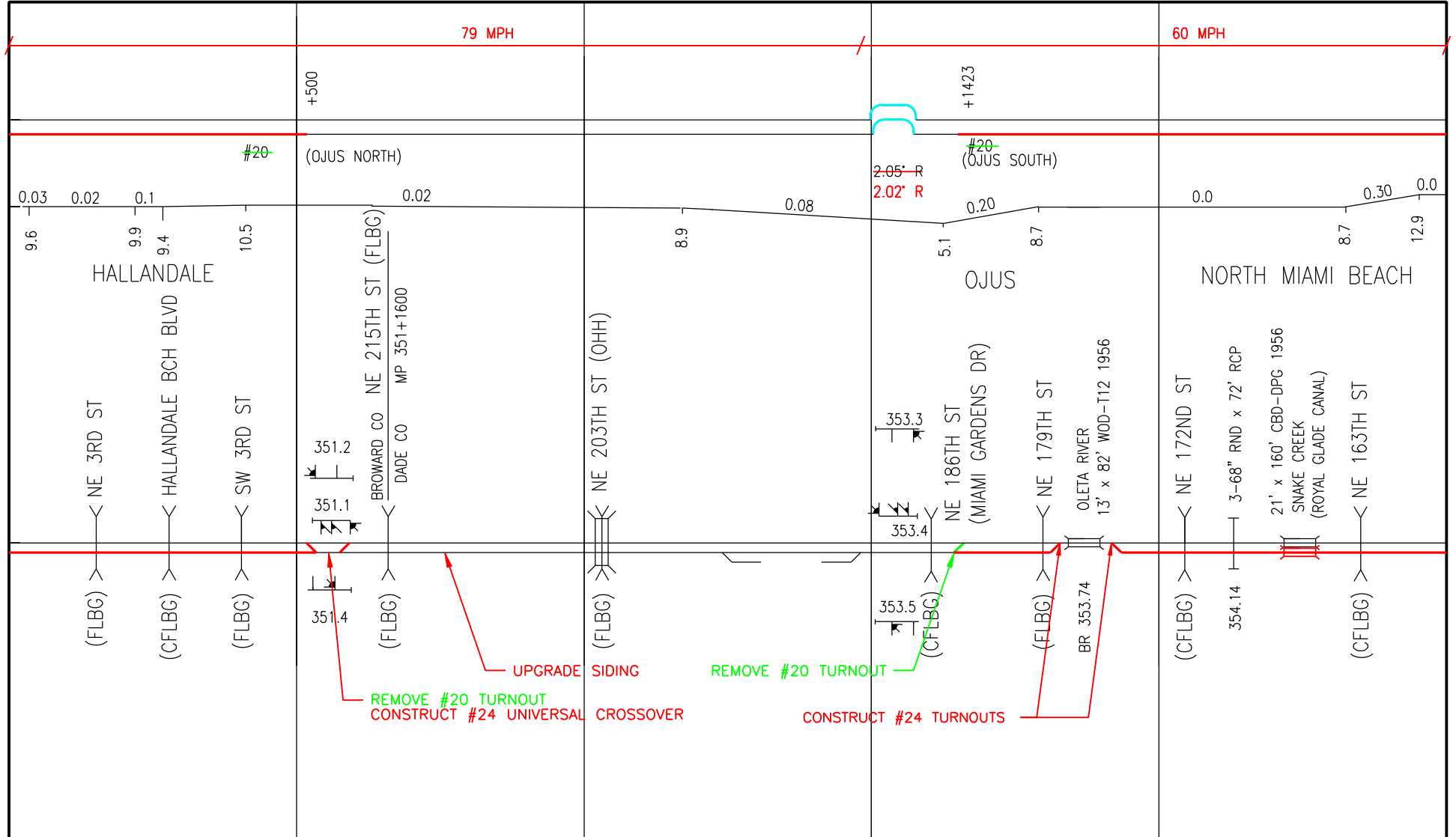
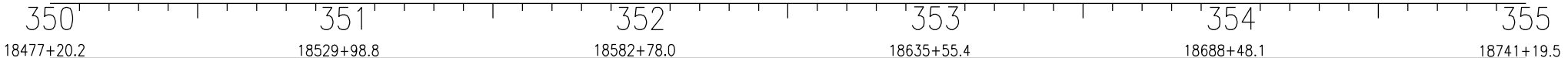
FEC SHEET 69

JULY 27, 2012

DRAWING NO.
14 of 18

TO JACKSONVILLE

TO MIAMI



HDR
 HDR ENGINEERING, INC.
 200 W FORSYTH STREET, STE. 800
 JACKSONVILLE, FLORIDA 32202-4321
 (904) 598-8900



FLORIDA EAST COAST RAILWAY CO.
 OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

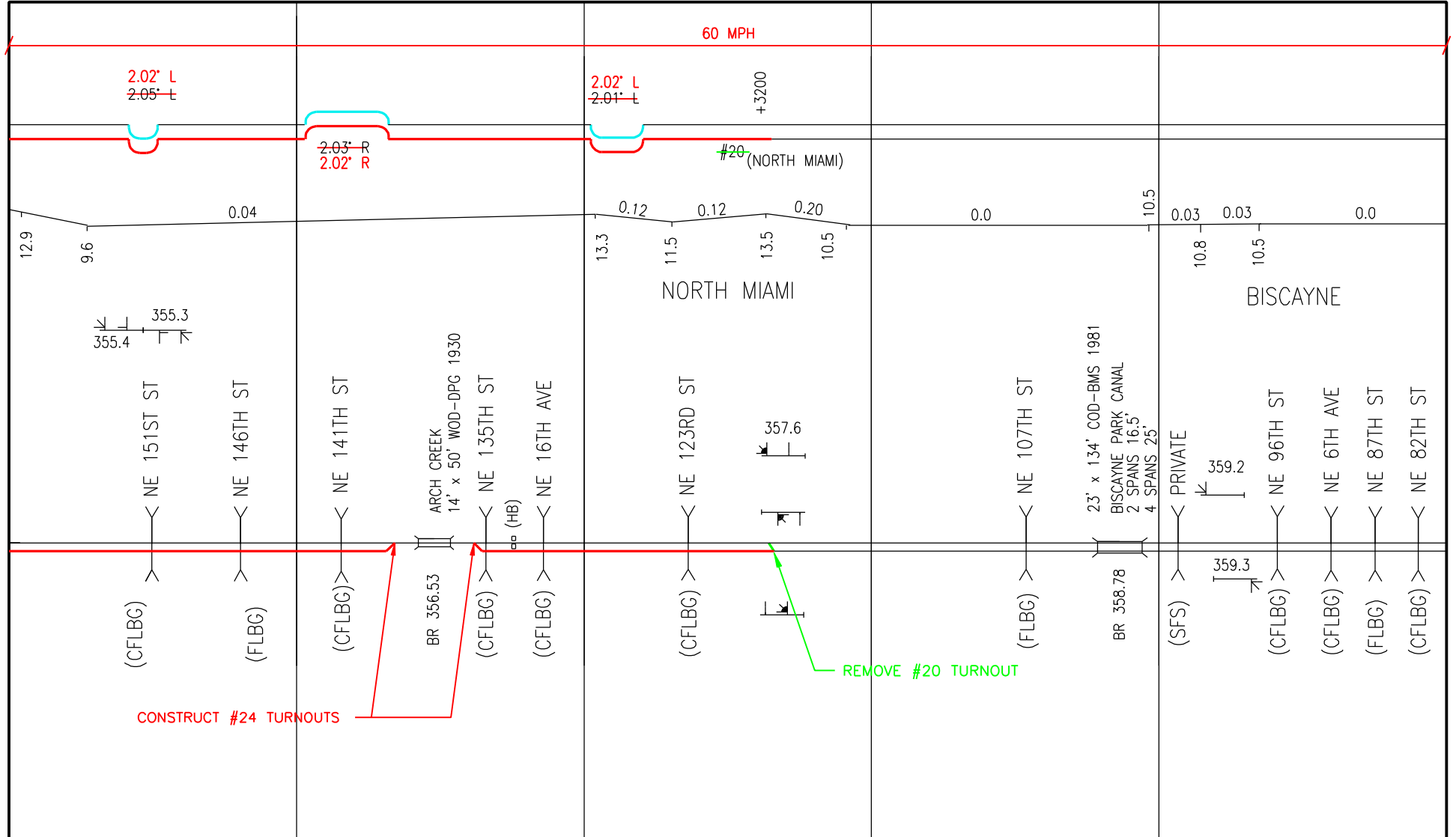
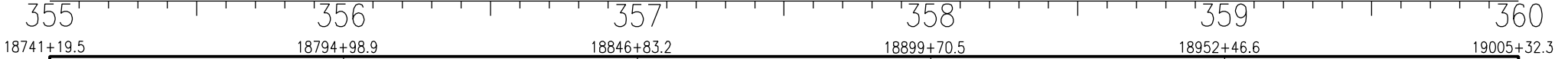
FEC SHEET 70

JULY 27, 2012

DRAWING NO.
 15 of 18

TO JACKSONVILLE

TO MIAMI



HDR
 HDR ENGINEERING, INC.
 200 W FORSYTH STREET, STE. 800
 JACKSONVILLE, FLORIDA 32202-4321
 (904) 598-8900

FEC
 FLORIDA EAST COAST RAILWAY CO.
 OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

FEC SHEET 71

JULY 27, 2012

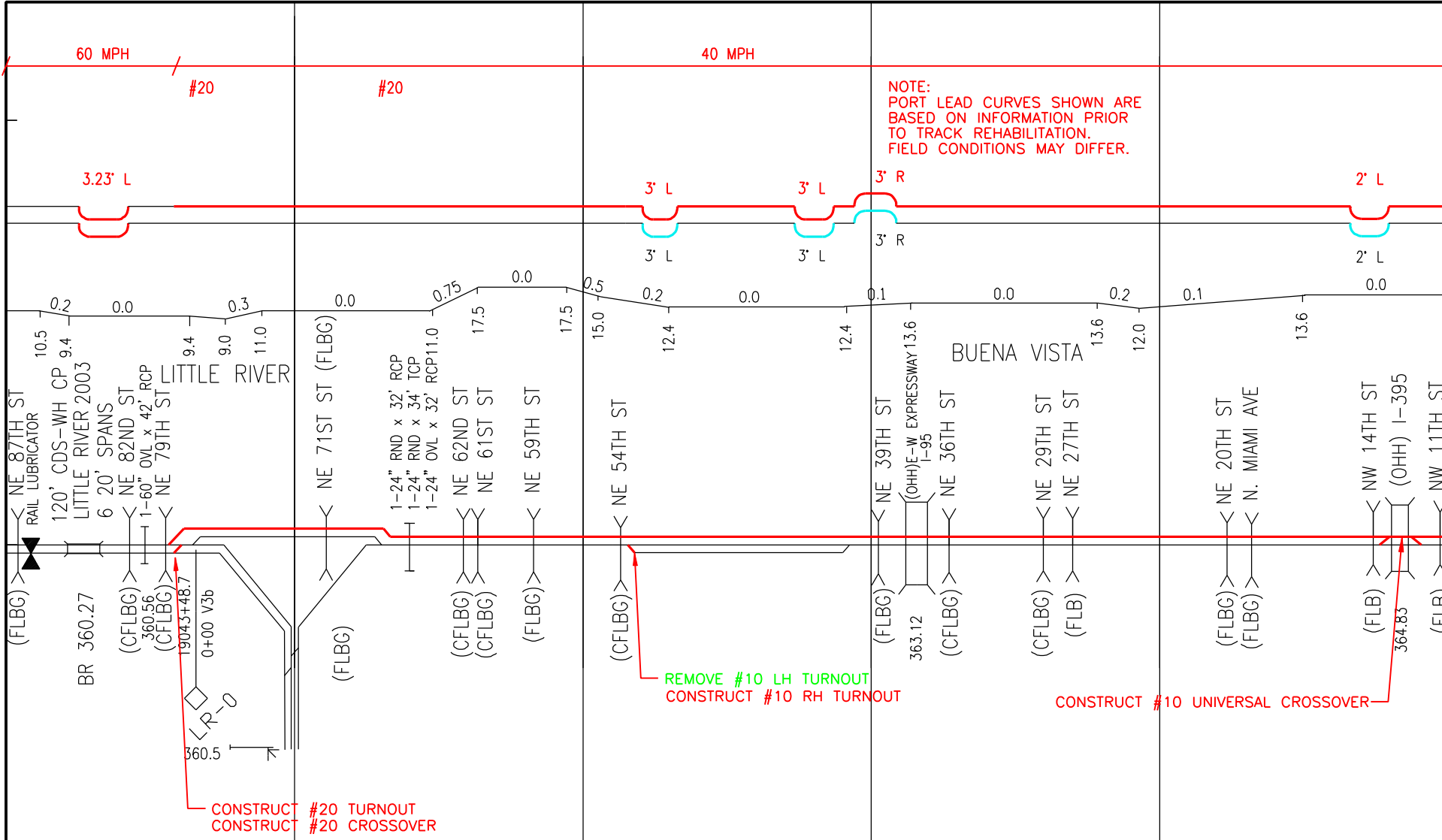
DRAWING NO.
 16 of 18

TO JACKSONVILLE ←

TO MIAMI →

360 360.7=PL 0 PL1 PL2 PL3 PL4
 360.7(OLD) 362 363 364 365

19005+32.3 19058+10.7 19110+96.7 19163+76.4 19216+61.1 19269+61.1



HDR
 HDR ENGINEERING, INC.
 200 W FORSYTH STREET, STE. 800
 JACKSONVILLE, FLORIDA 32202-4321
 (904) 598-8900

FEC
 FLORIDA EAST COAST RAILWAY CO.
 OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

FEC SHEET 82

JULY 27, 2012

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17 of 18

← TO JACKSONVILLE

TO MIAMI →

PL4

PL5

PL4

365

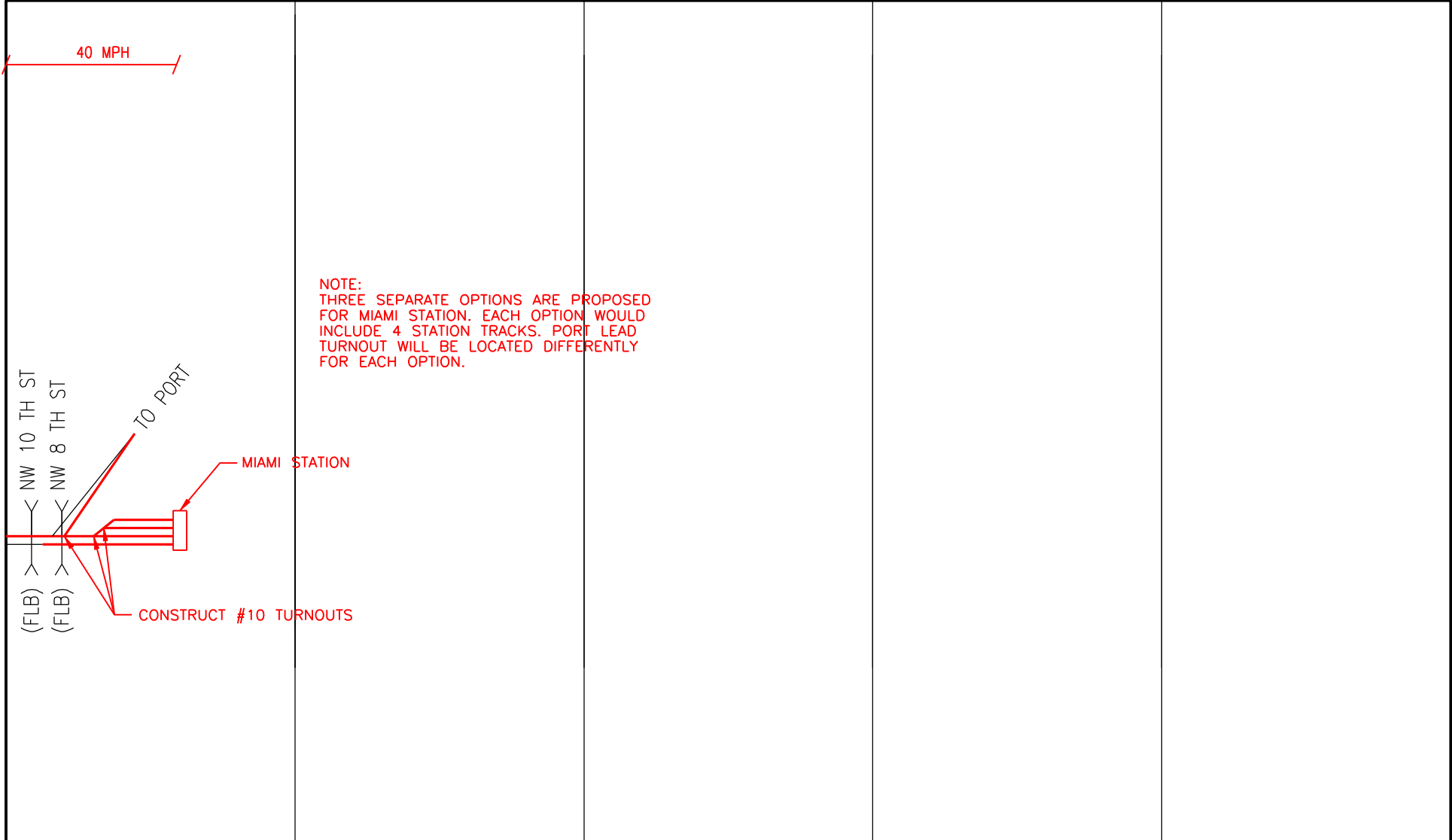
366

365

19269+61.1

1932219.7

19269+61.1



HDR ENGINEERING, INC.
200 W FORSYTH STREET, STE. 800
JACKSONVILLE, FLORIDA 32202-4321
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FLORIDA EAST COAST RAILWAY CO.
OFFICE OF ASSISTANT CHIEF ENGINEER - DESIGN & CONSTRUCTION

FEC SHEET 82

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