

APPENDIX A

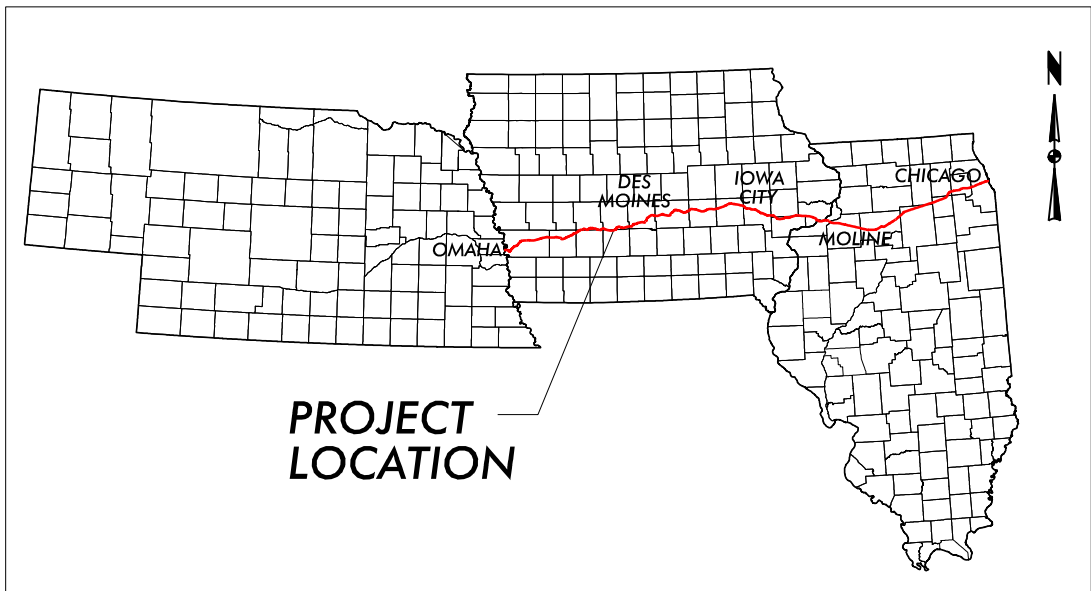
CONCEPTUAL ENGINEERING PLANS

(Part 1 of 2)

CHICAGO TO COUNCIL BLUFFS – OMAHA PASSENGER RAIL SERVICE

CONCEPTUAL ENGINEERING DRAWINGS

MARCH 26, 2013



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GENERAL ABBREVIATIONS	
EB	EASTBOUND
EX	EXISTING
HT	HAND-THROW
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
MOW	MAINTENANCE-OF-WAY
NB	NORTHBOUND
PO	POWER OPERATED
PR	PROPOSED
RBM	RAIL-BOUND MANGANESE FROG
SB	SOUTHBOUND
SNF	SWING-NOSE FROG
SUB	RAILROAD SUBDIVISION
RT	RIGHT
TRK	TRACK
UXO	UNIVERSAL CROSSOVER
WB	WESTBOUND

RAILROAD COMPANY ABBREVIATIONS	
BNSF	BNSF RAILWAY
BRC	BELT RAILWAY OF CHICAGO
CBEC	CBEC RAILWAY
CN	CANADIAN NATIONAL RAILWAY
CPRR	CANADIAN PACIFIC RAILWAY
CRANDIC	CEDAR RAPIDS AND IOWA CITY RAILWAY
CTA	CHICAGO TRANSIT AUTHORITY
IAIS	IOWA INTERSTATE RAILROAD
IHB	INDIANA HARBOR BELT RAILROAD
IR	ILLINOIS RAILNET
METRA	NORTHEAST ILLINOIS COMMUTER RAIL
MJ	MANUFACTURER'S JUNCTION RAILWAY
NS	NORFOLK SOUTHERN RAILROAD
UPRR	UNION PACIFIC RAILROAD

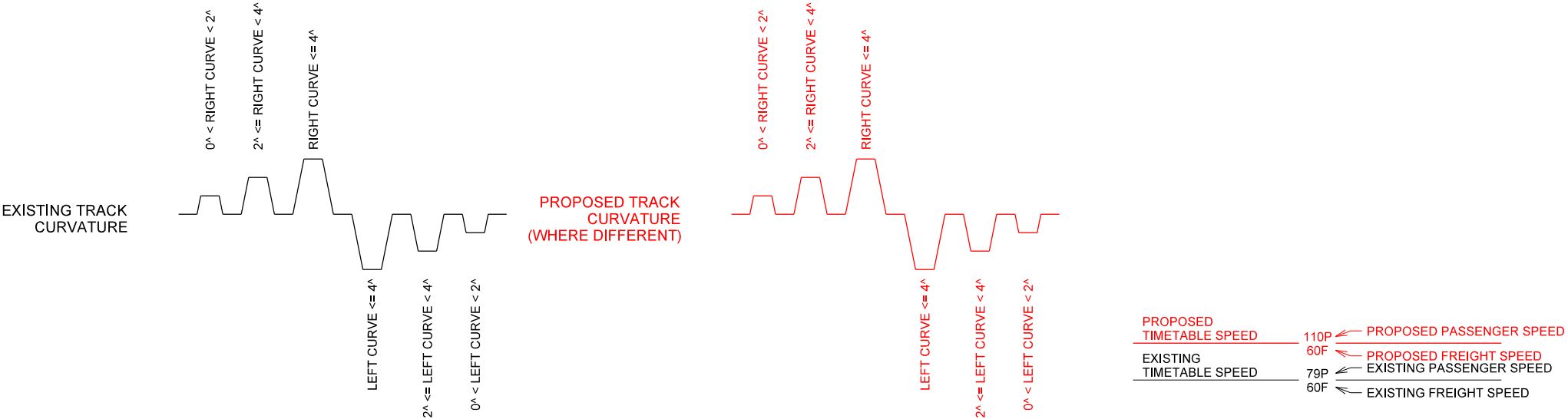
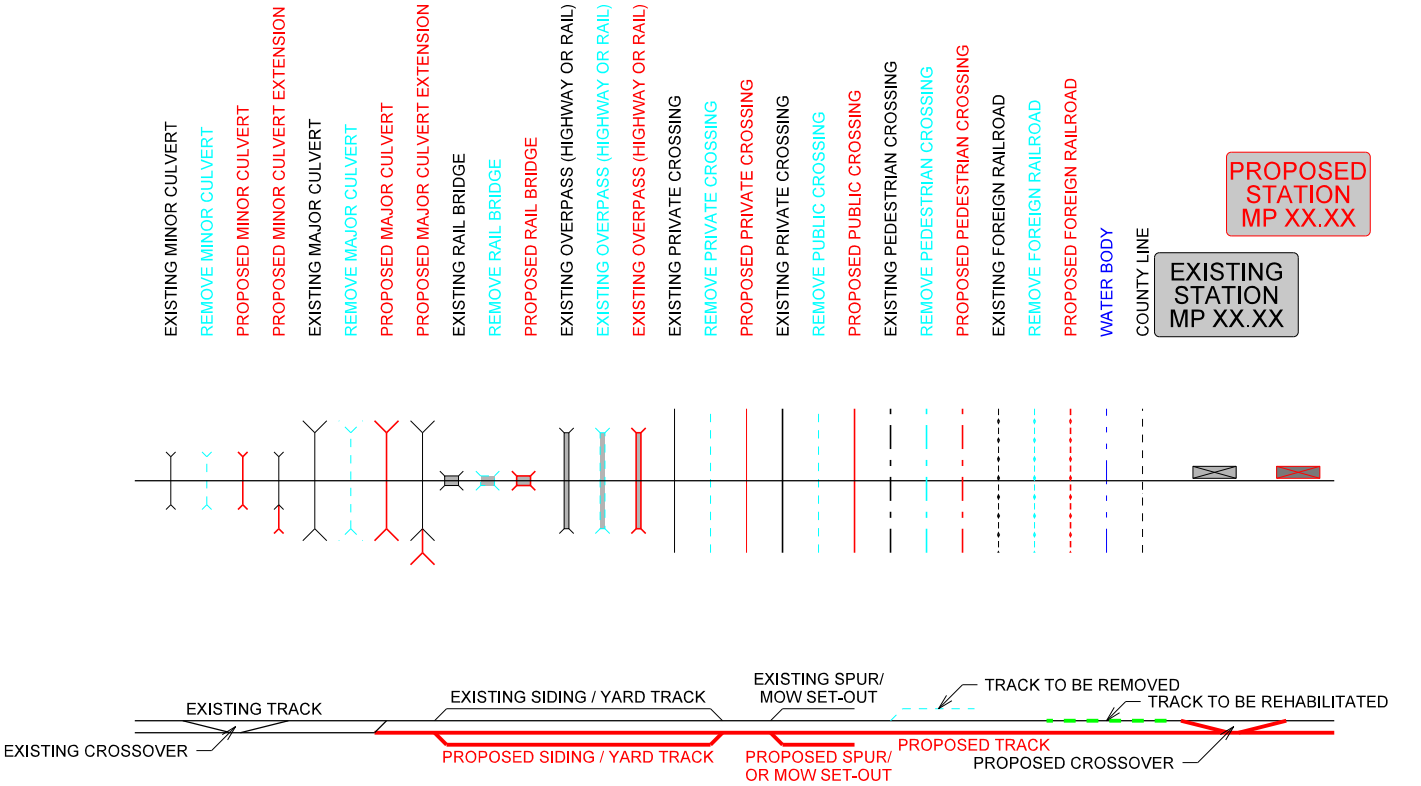
SIGNAL ABBREVIATIONS	
CTC	CENTRALIZED TRAFFIC CONTROL
ELTO	ELECTRIC LOCK TURNOUT
HTTO	HAND-THROW TURNOUT
POTO	POWER OPERATED TURNOUT

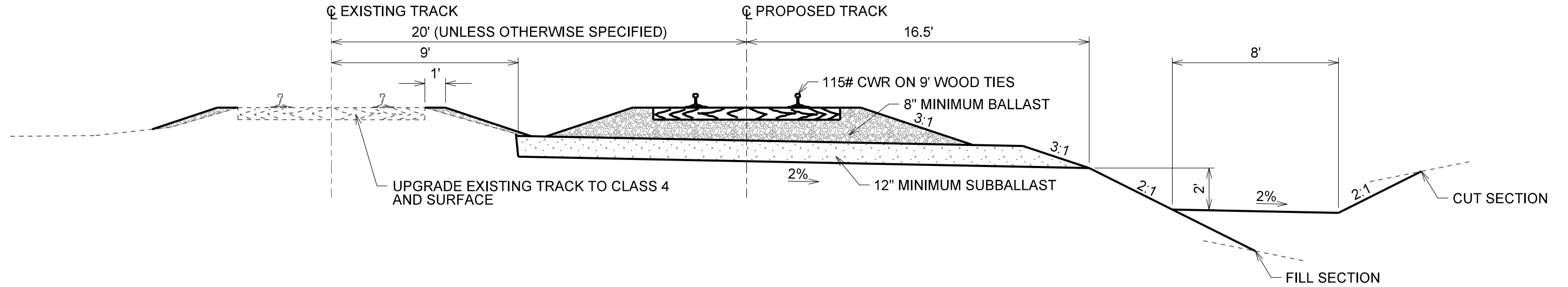
CROSSING ABBREVIATIONS	
XB	CROSSBUCKS
XBwS	CROSSBUCKS WITH STOP SIGN
FLS	FLASHERS
CFLS	CANTILEVER WITH FLASHERS
wG	WITH GATES
QZ	QUIET ZONE
NONE	NO CROSSING PROTECTION PRESENT

CULVERT TYPE ABBREVIATIONS	
CIP	CAST IRON PIPE
CMA	CORRUGATED METAL ARCH
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
MPP	MULTI-PLATE PIPE
OC	OV
OMP	OV
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
SSP	SMOOTH STEEL PIPE
STA	STONE ARCH
STB	STONE BOX
TBX	TIMBER BOX (WOOD)
VCP	VITRIFIED CLAY PIPE

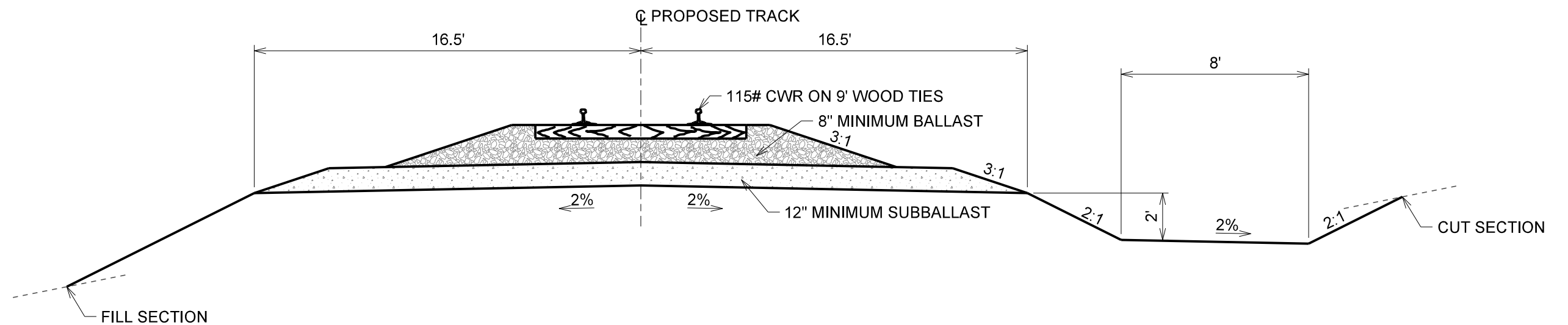
BRIDGE TYPE ABBREVIATIONS	
BD	BALLAST DECK
CB	CONCRETE BRIDGE
DPG	DECK PLATE GIRDER
DT	DECK TRUSS
IB	I-BEAM
M/B	MOVABLE - BASCULE
M/L	MOVABLE - LIFT
M/S	MOVABLE - SWING
OD	OPEN DECK
PT	PILE TRESTLE
TPG	THROUGH PLATE GIRDER
TT	THROUGH TRUSS

PROPOSED IMPROVEMENT NOTES	PROPOSED IMPROVEMENT NOTES	BNSF MILEPOST	100
EXISTING METRA STATION	METRA STATION	IAIS MILEPOST	100
STATION MILEPOST	ROOSEVELT ROAD 0.80	UPRR MILEPOST	100
GENERAL CORRIDOR NOTES	CORRIDOR NOTES	CHICAGO TERMINAL MILEPOST	100
GENERAL CONSTRUCTION NOTES	CONSTRUCTION NOTES	ACTUAL MILEAGE FROM CHICAGO UNION STATION	100

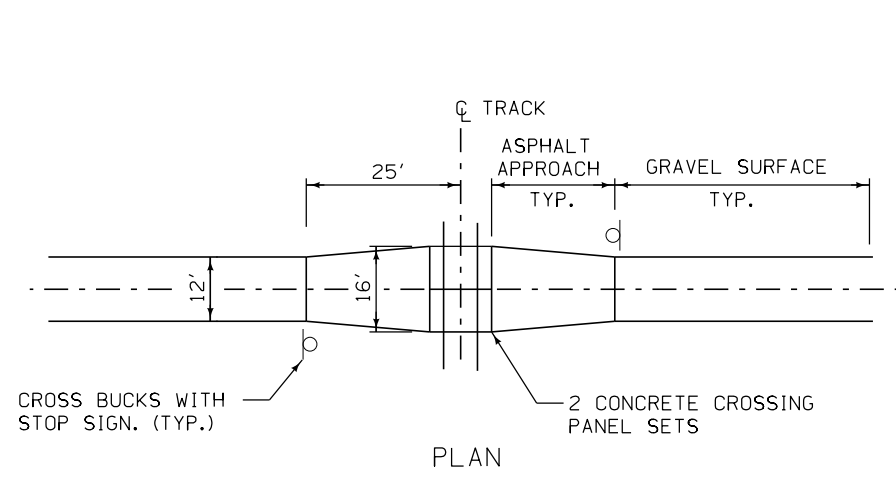




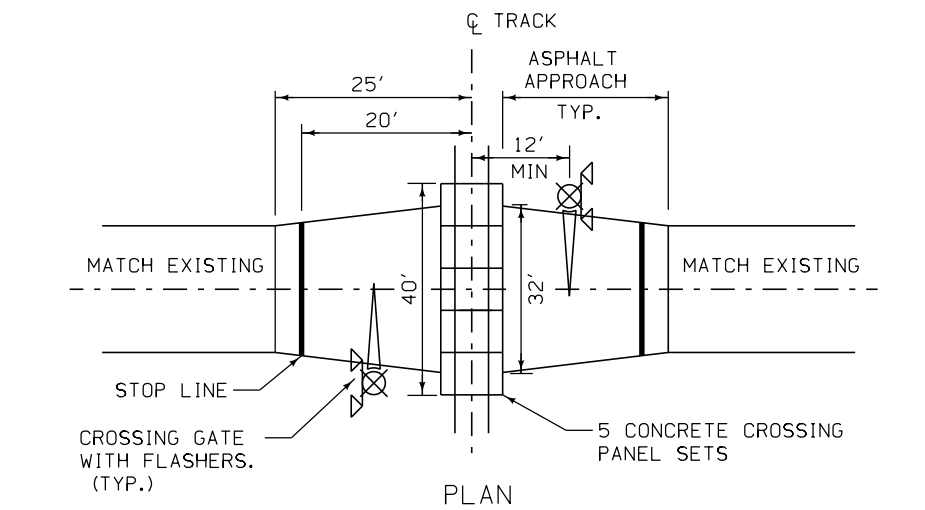
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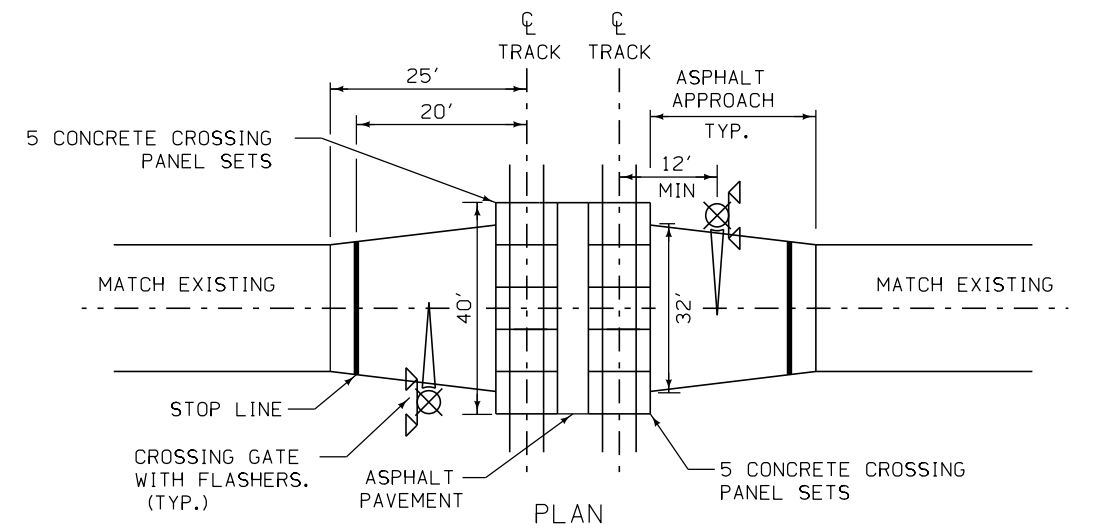
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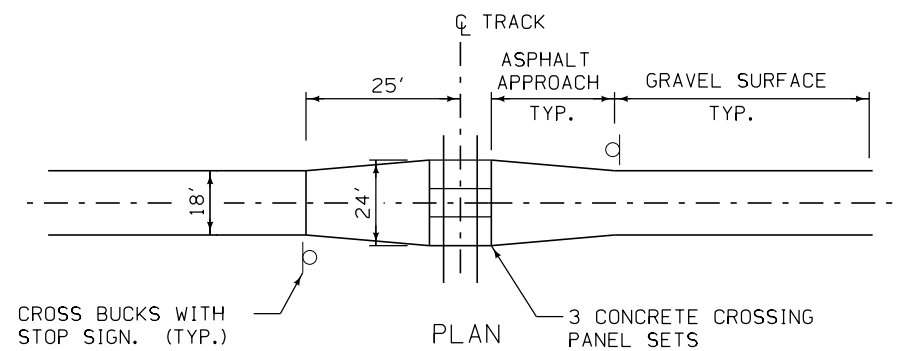
TYPICAL PRIVATE RESIDENTIAL
CROSSING DETAIL



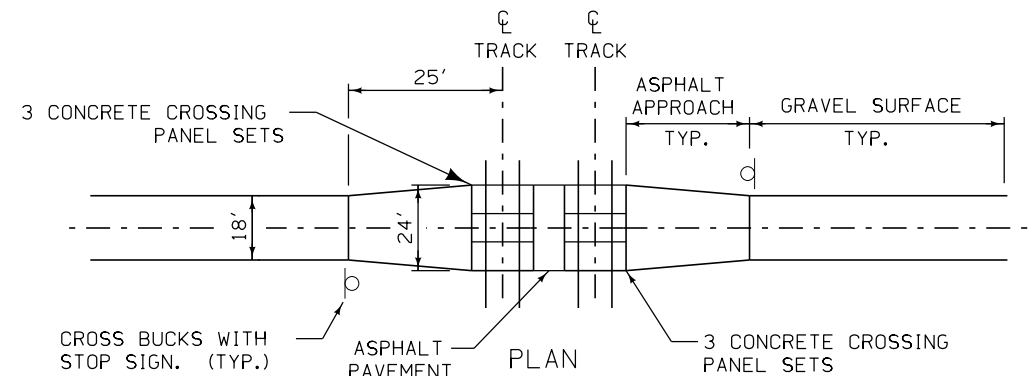
TYPICAL RURAL PUBLIC
CROSSING IMPROVEMENT



TYPICAL RURAL PUBLIC
DOUBLE TRACK CROSSING IMPROVEMENT



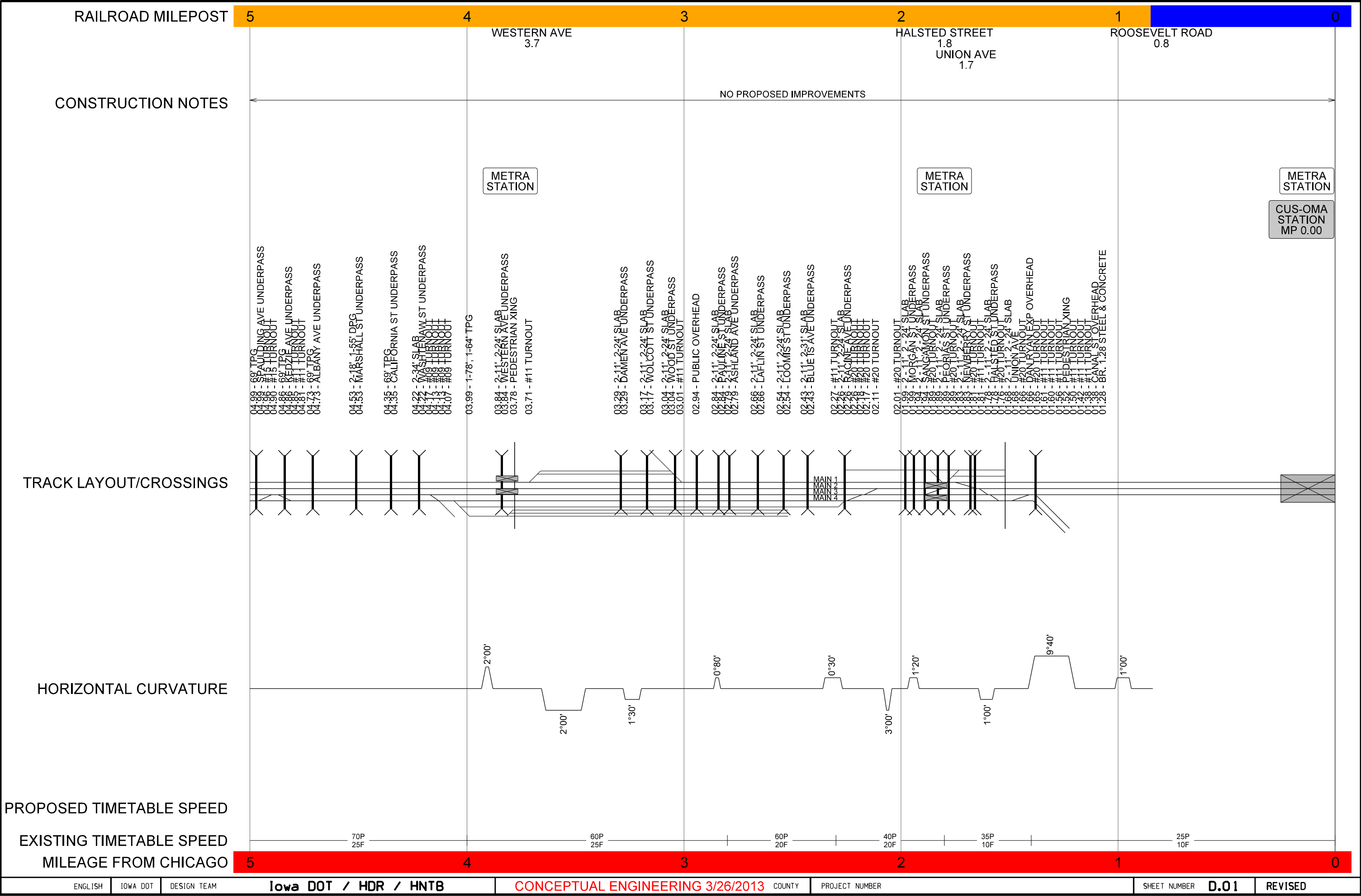
TYPICAL PRIVATE FARM/INDUSTRIAL
CROSSING DETAIL



TYPICAL PRIVATE FARM/INDUSTRIAL
DOUBLE TRACK CROSSING DETAIL

NOTE:

THE TYPICAL CROSSING DETAILS PRESENTED IN THIS SHEET ARE PROVIDED TO DEMONSTRATE THE GENERAL APPROACH TO ADDRESSING GRADE CROSSING MODIFICATIONS/IMPROVEMENTS. DURING FINAL DESIGN THE TYPICAL DETAILS WILL BE FURTHER REFINED AND EACH INDIVIDUAL PUBLIC CROSSING WILL BE DESIGNED IN ACCORDANCE WITH THE OUTCOME OF THE AGENCY CROSSING DIAGNOSTIC REVIEWS AND EACH PRIVATE GRADE CROSSING WILL BE DESIGNED IN ACCORDANCE WITH THE OUTCOME OF THE RAILROAD/PRIVATE STAKEHOLDER COORDINATION.



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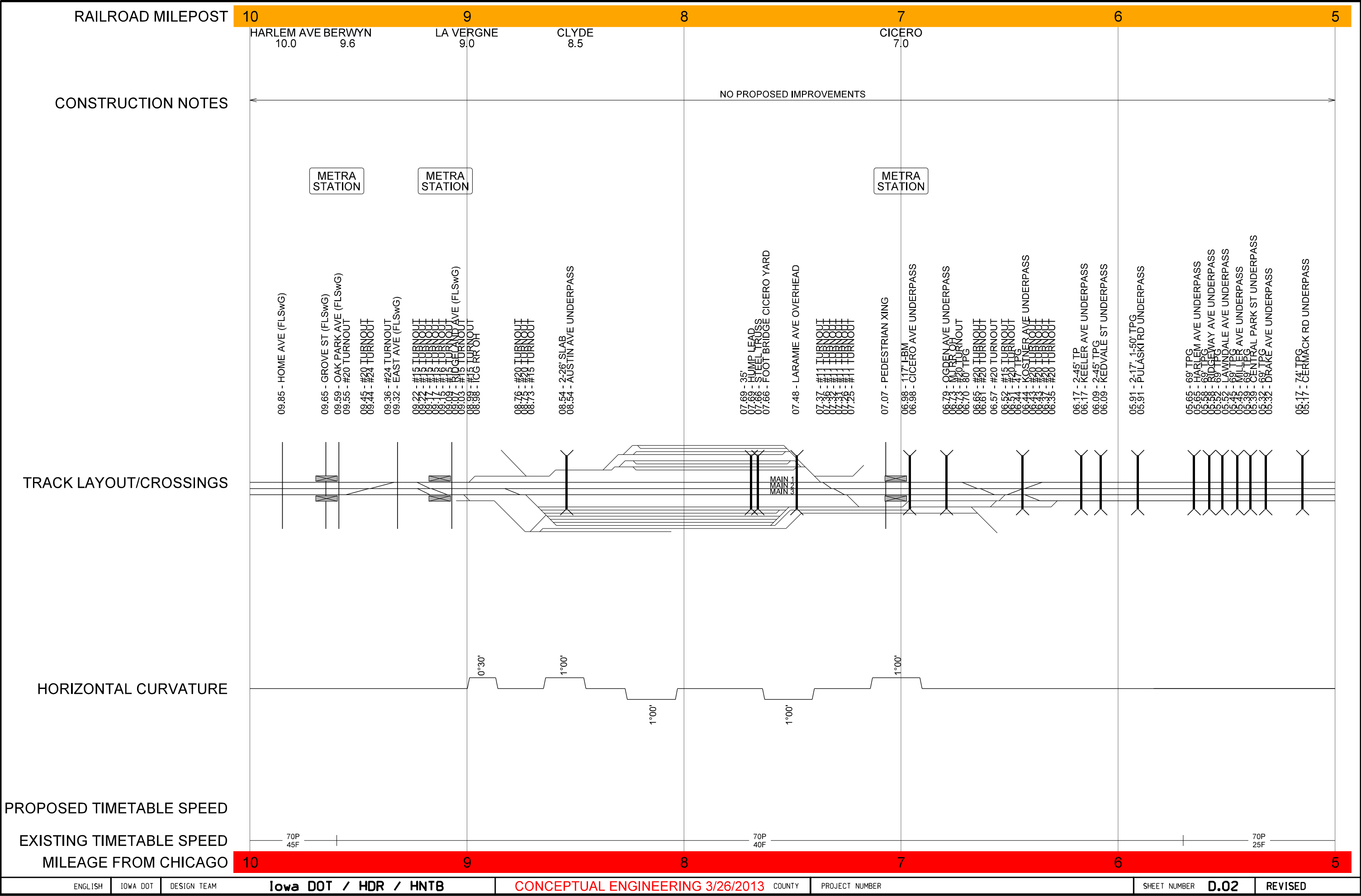
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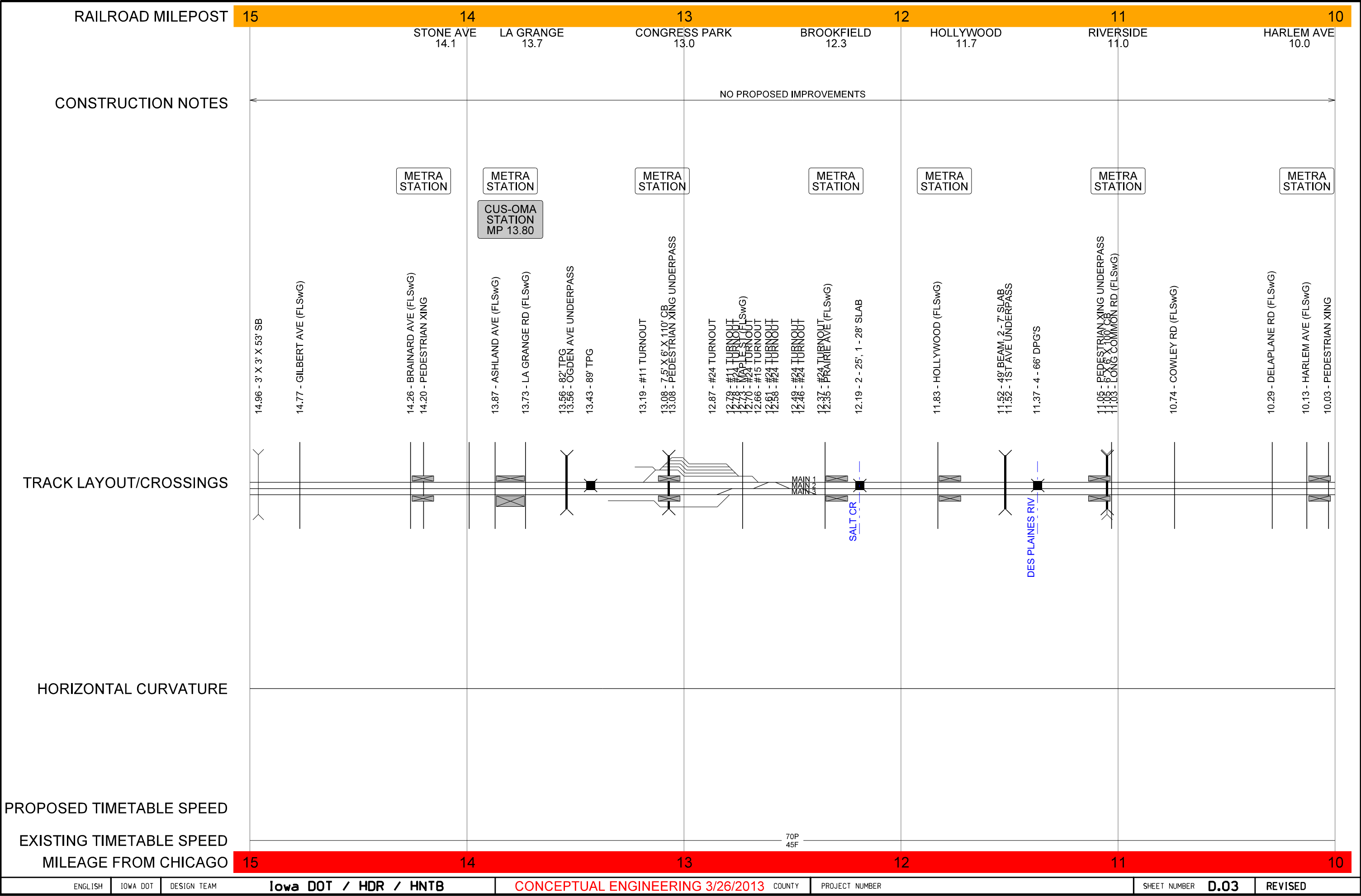
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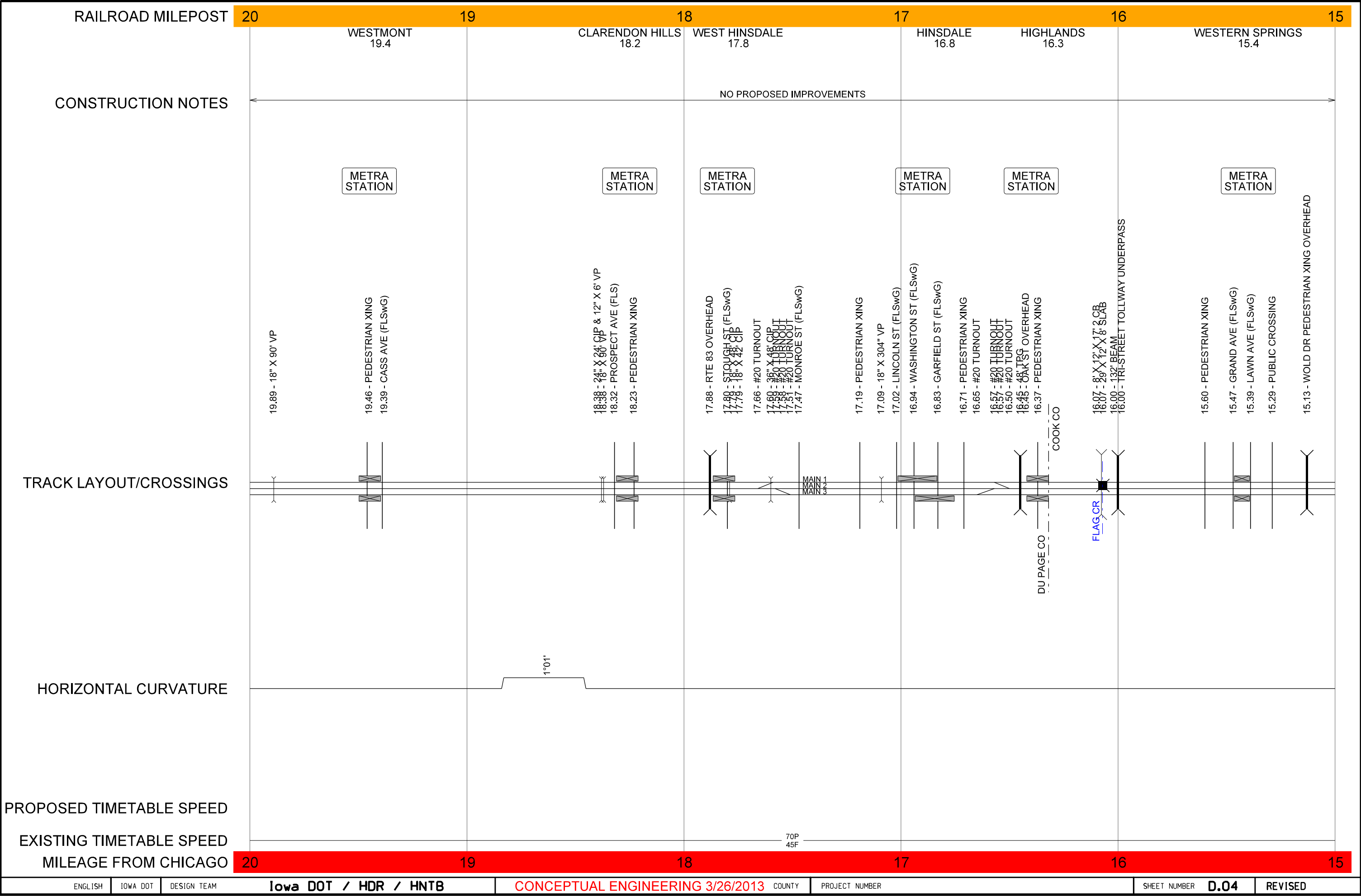
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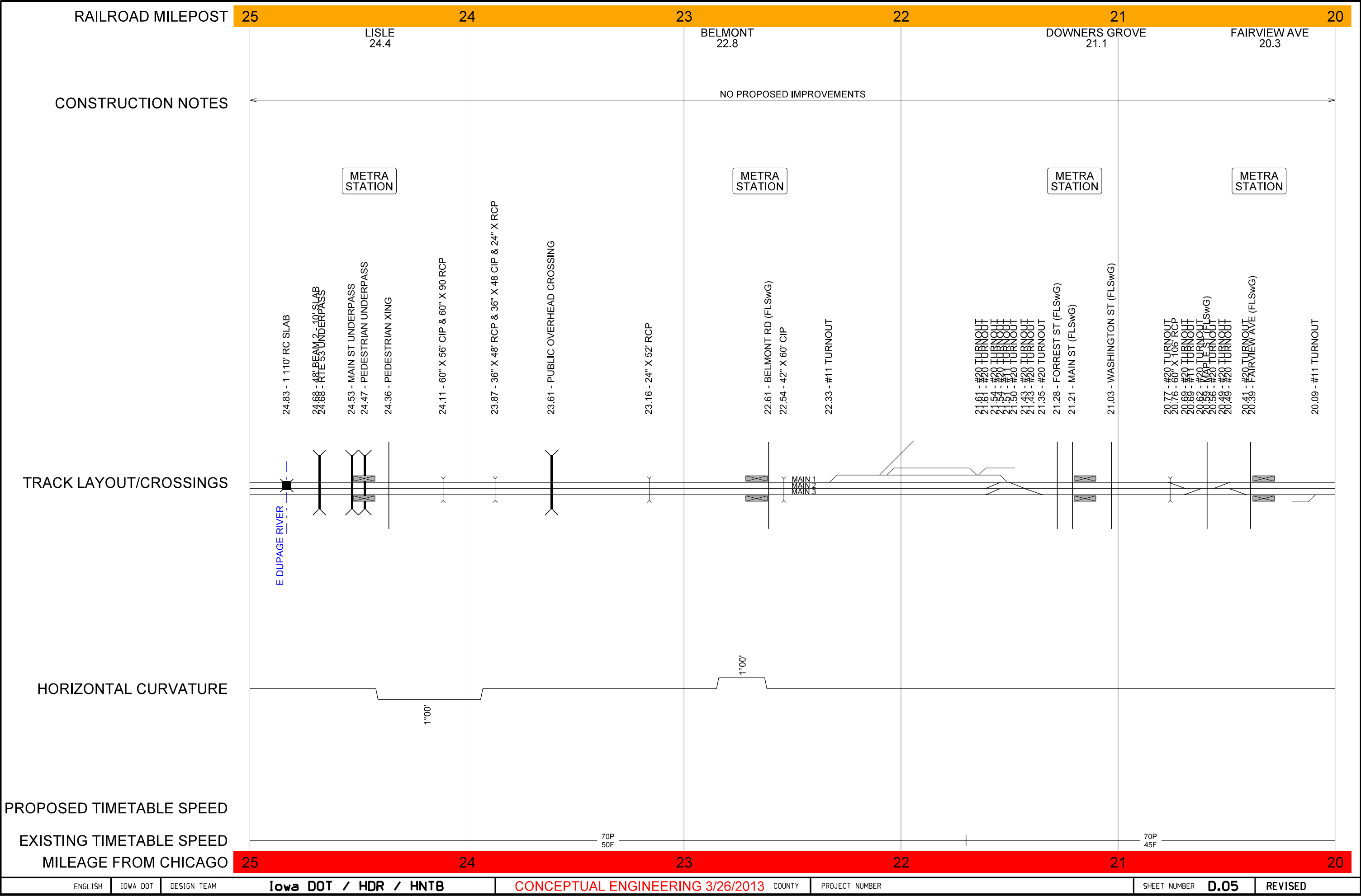
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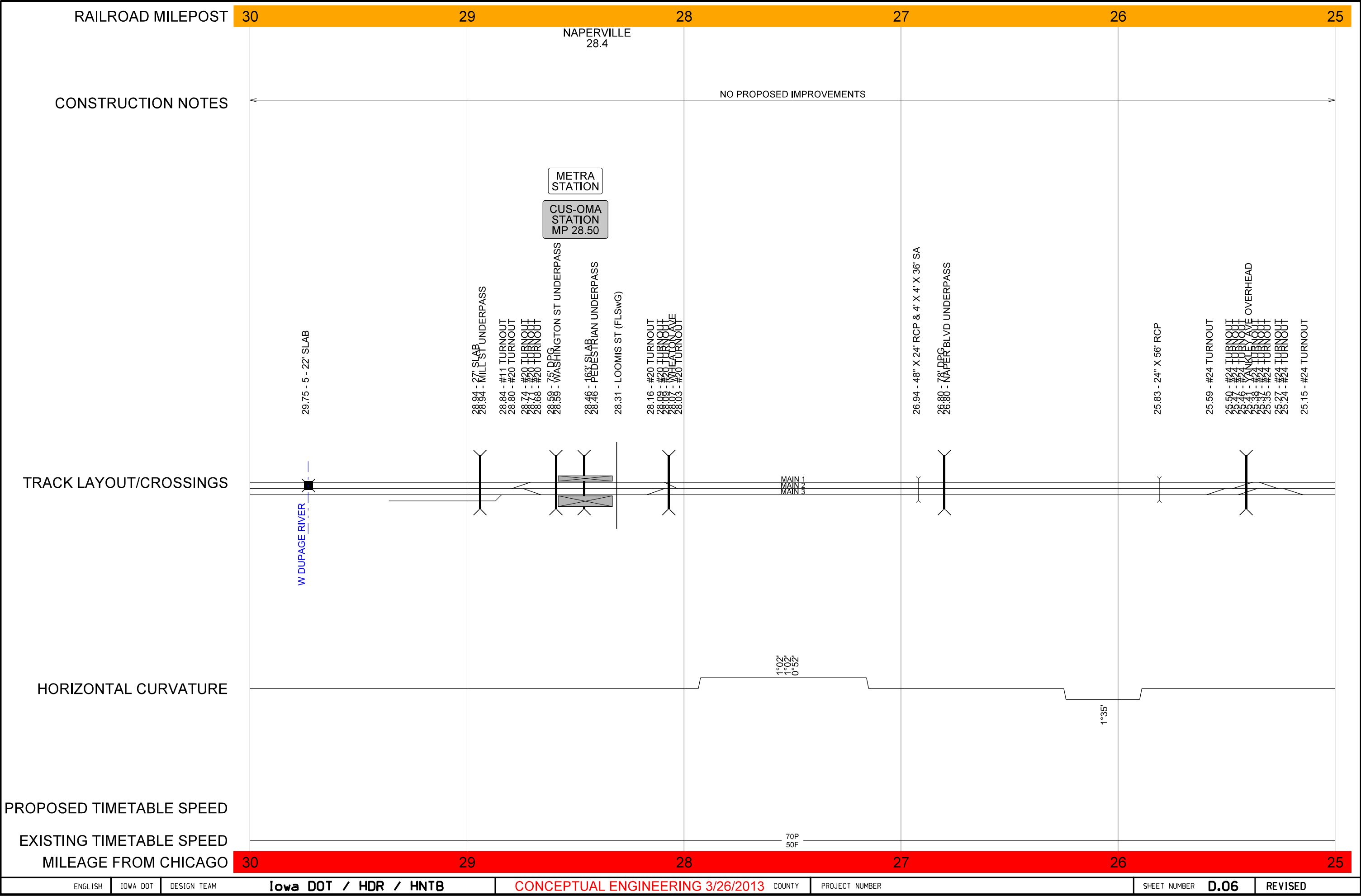
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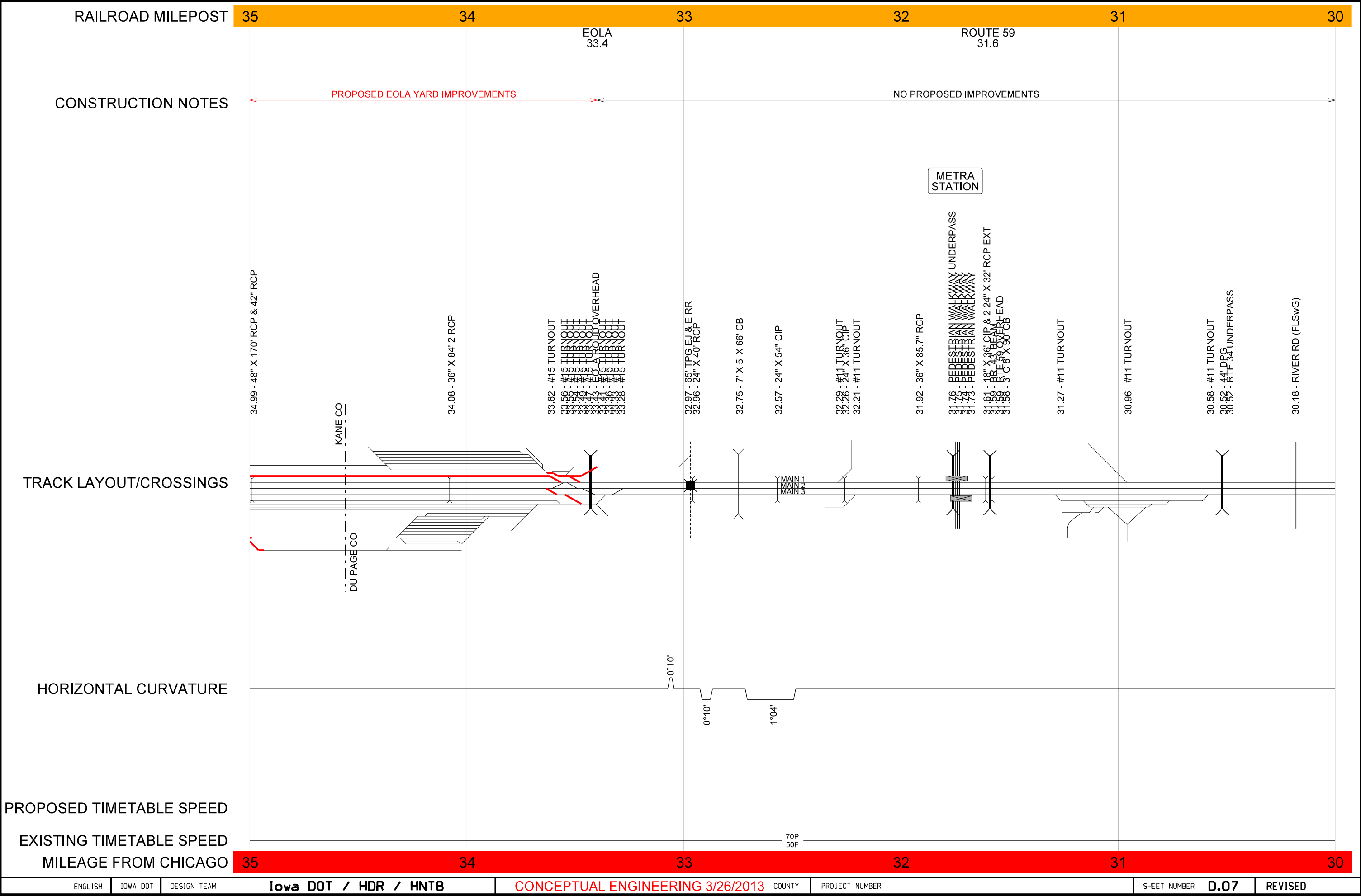


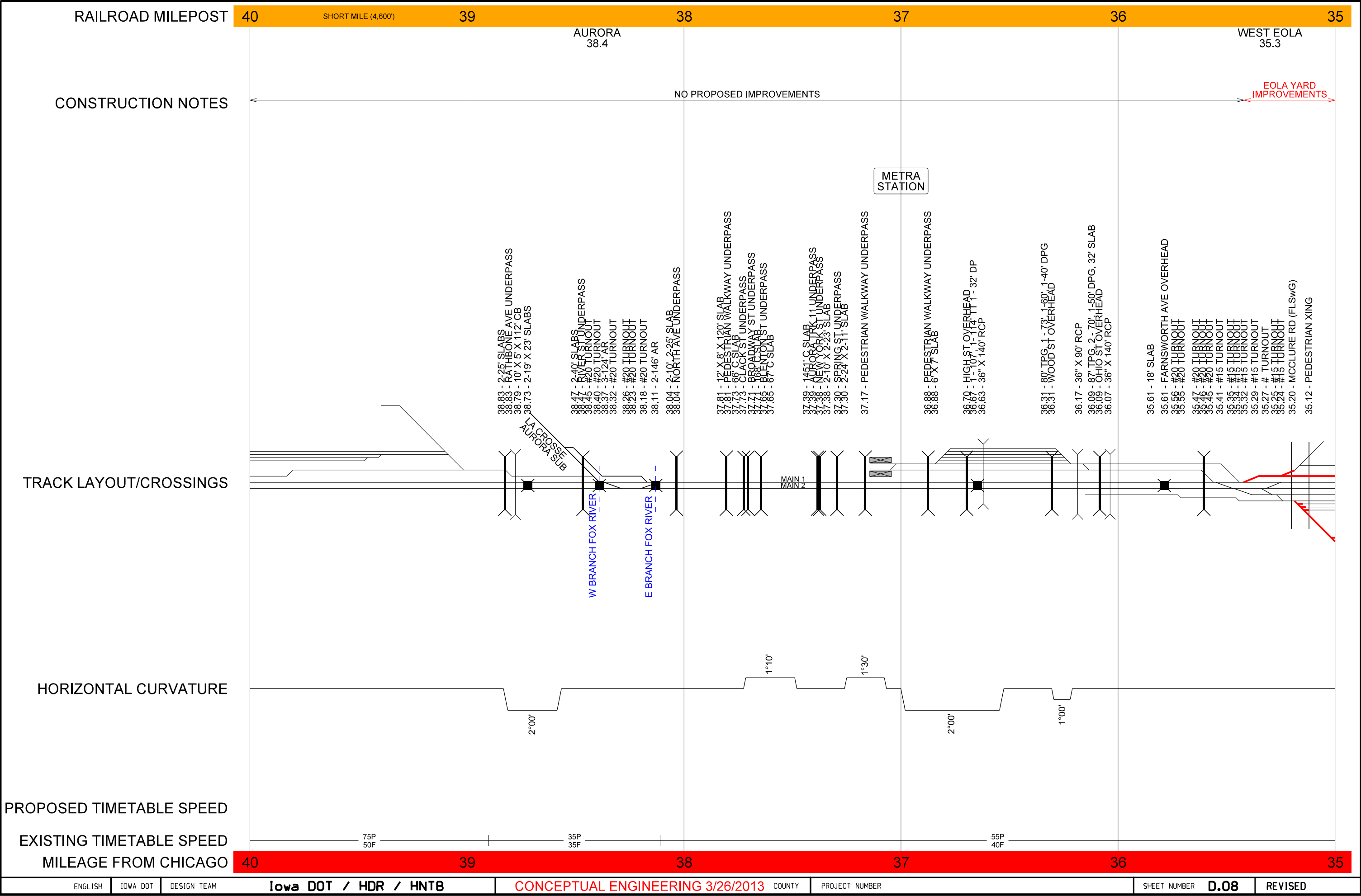


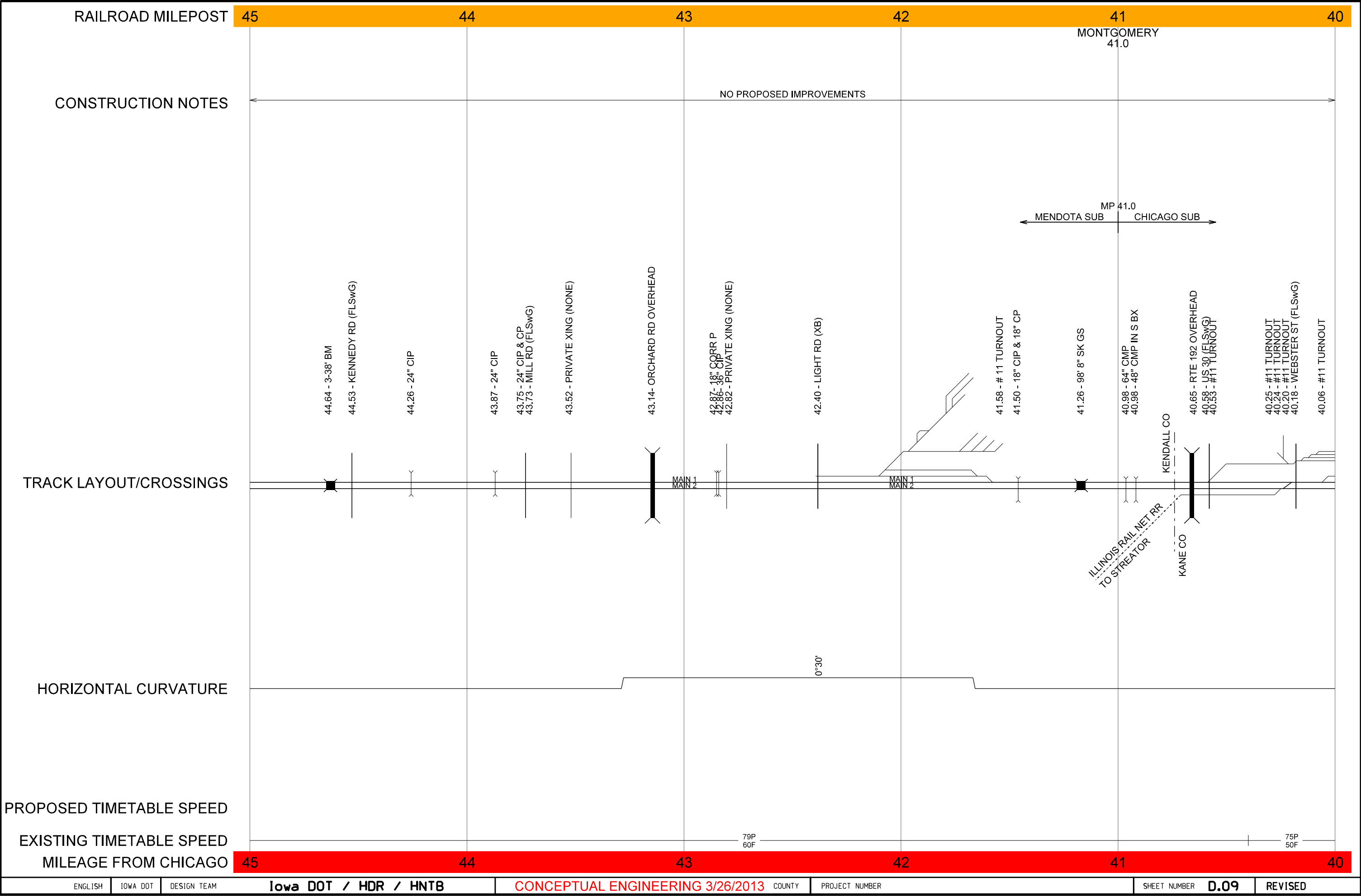
METRA STATION

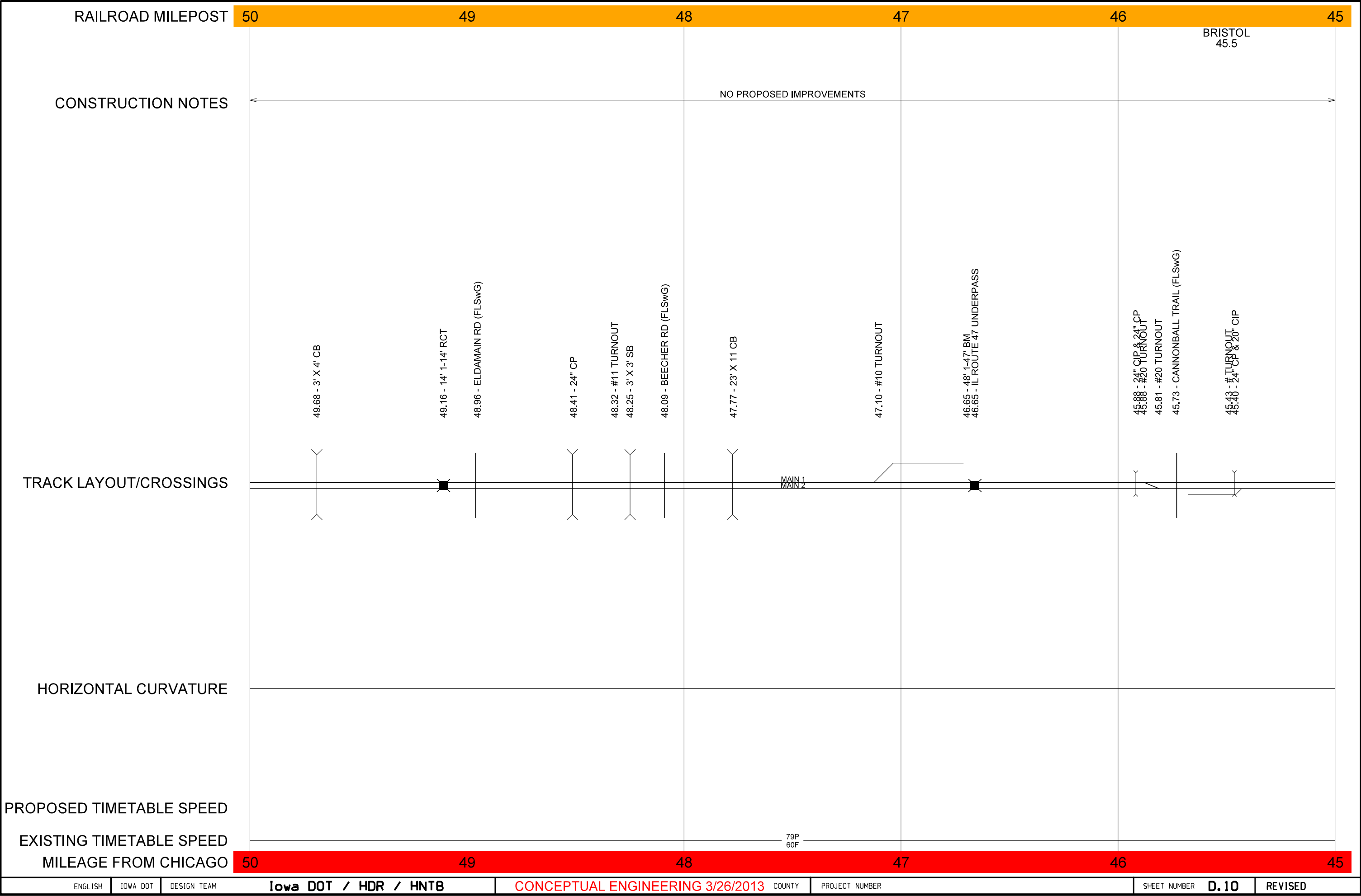
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MP 28.50

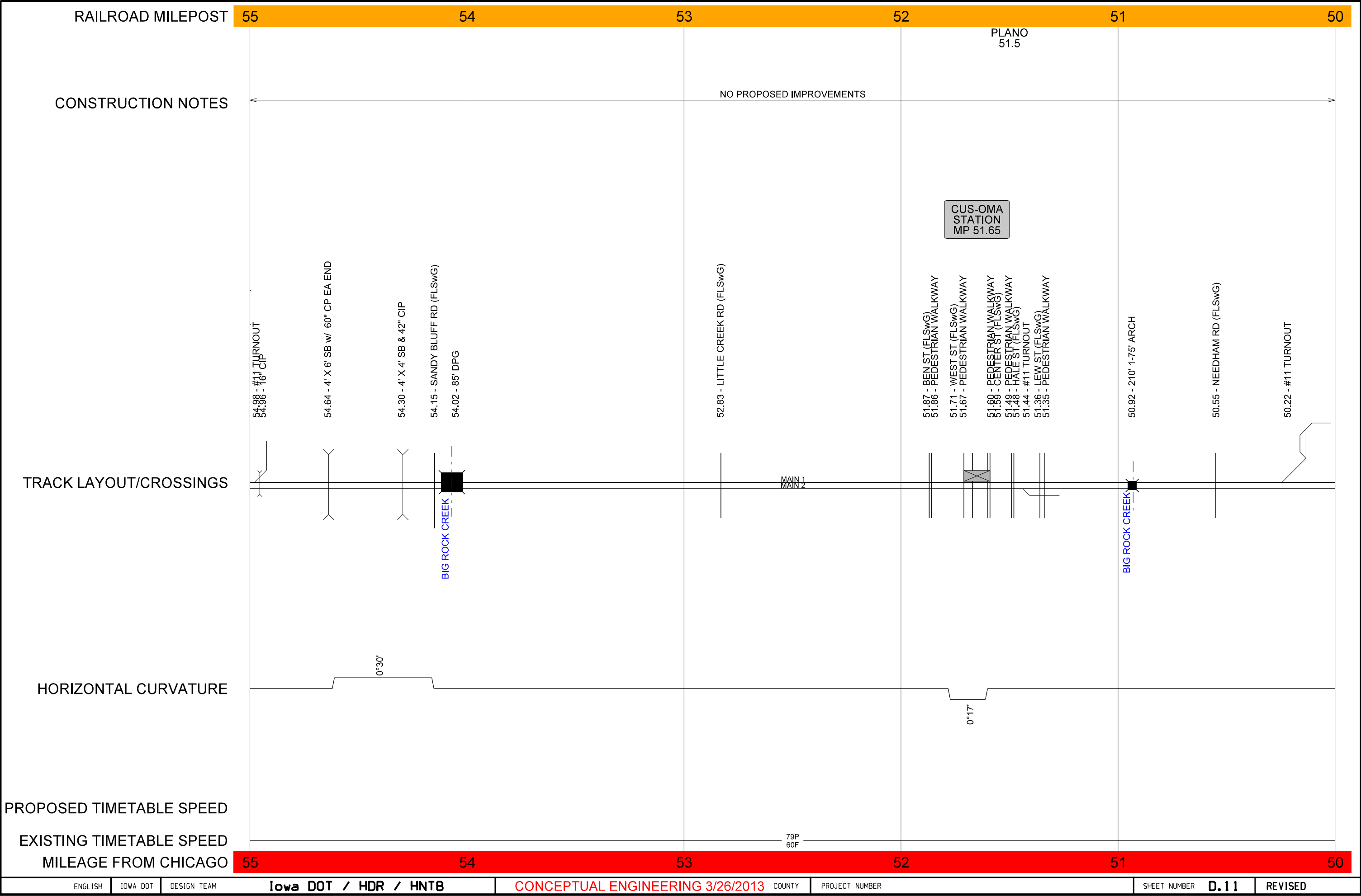
NAPERVILLE
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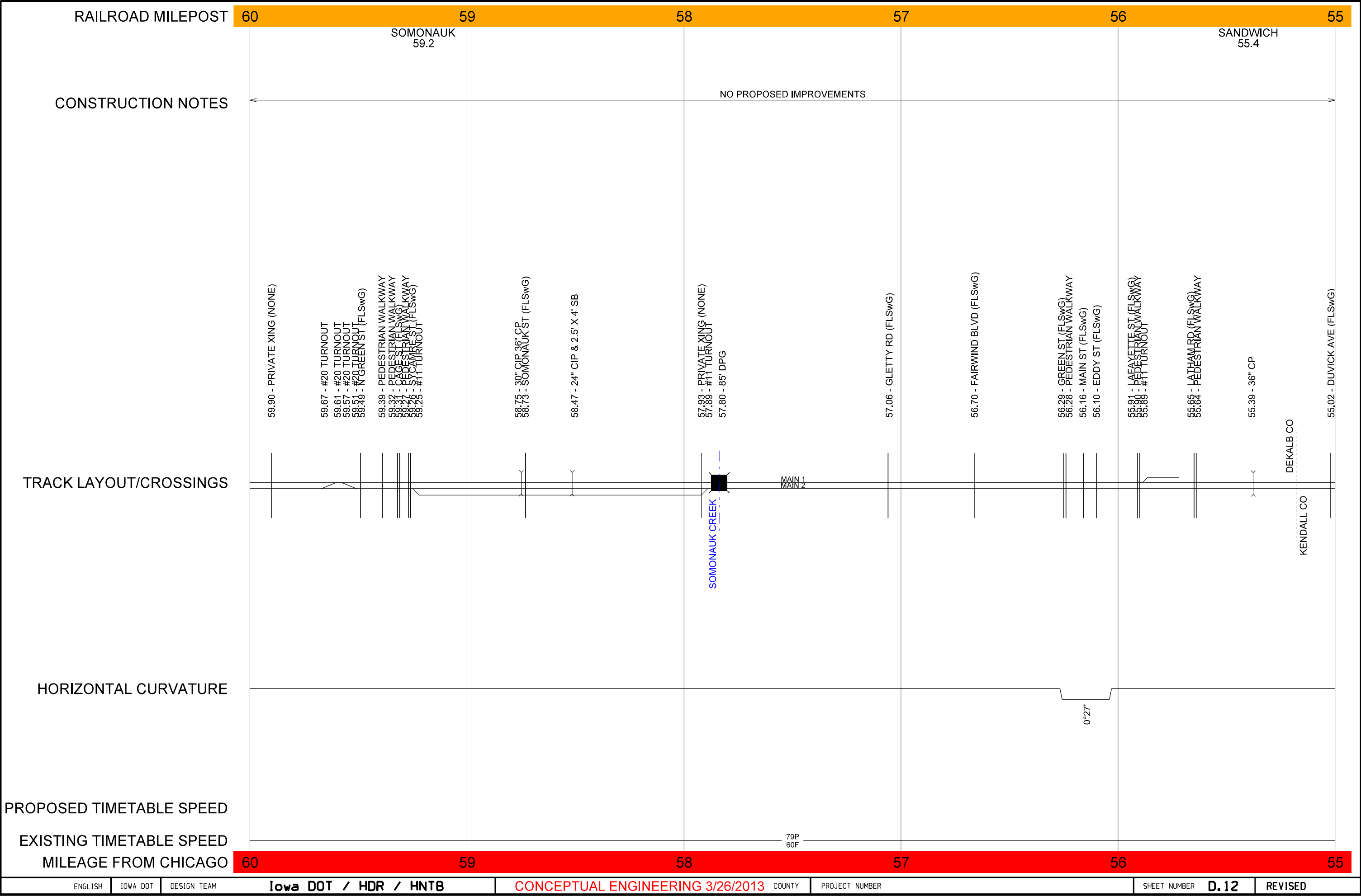


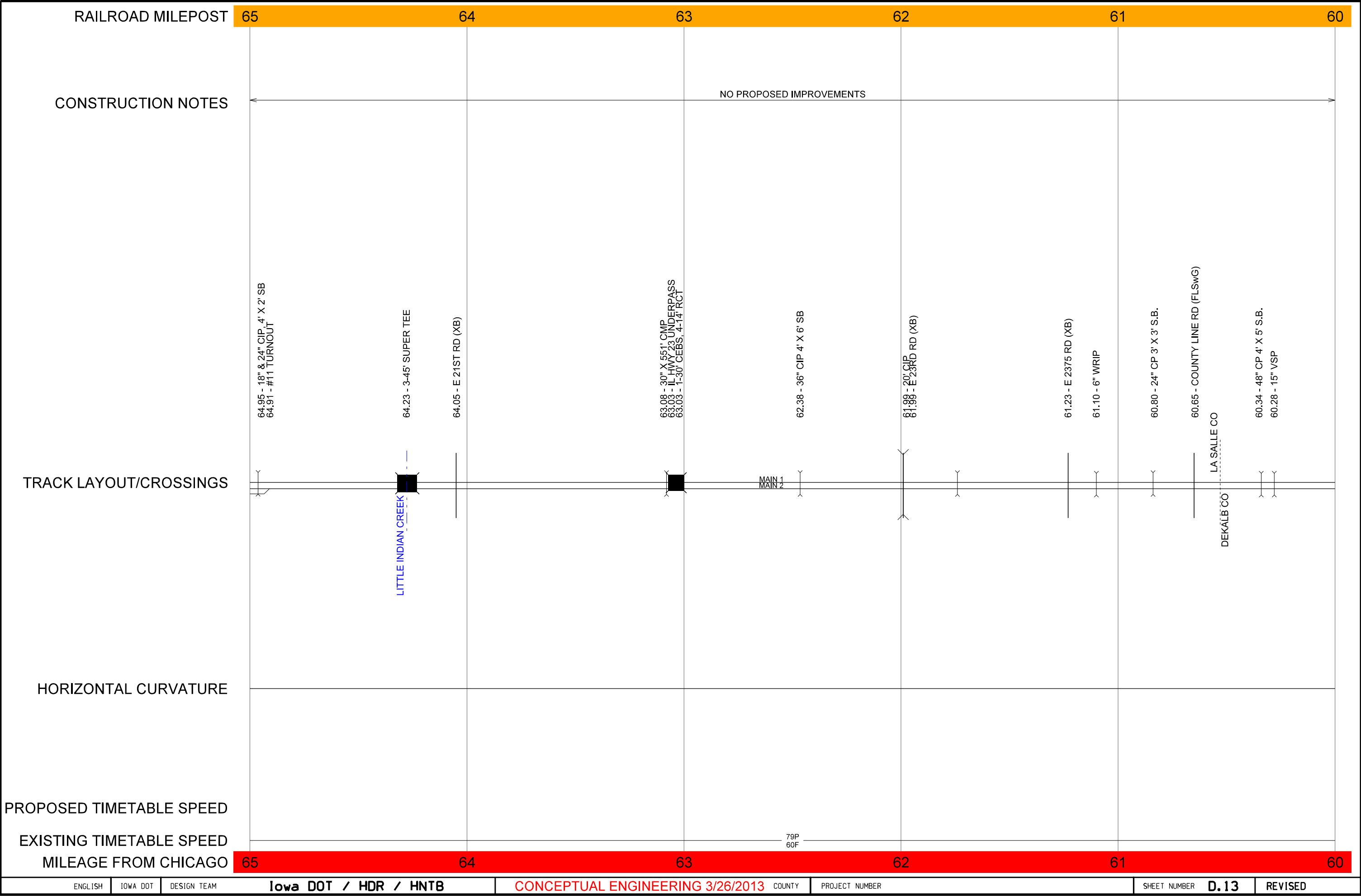


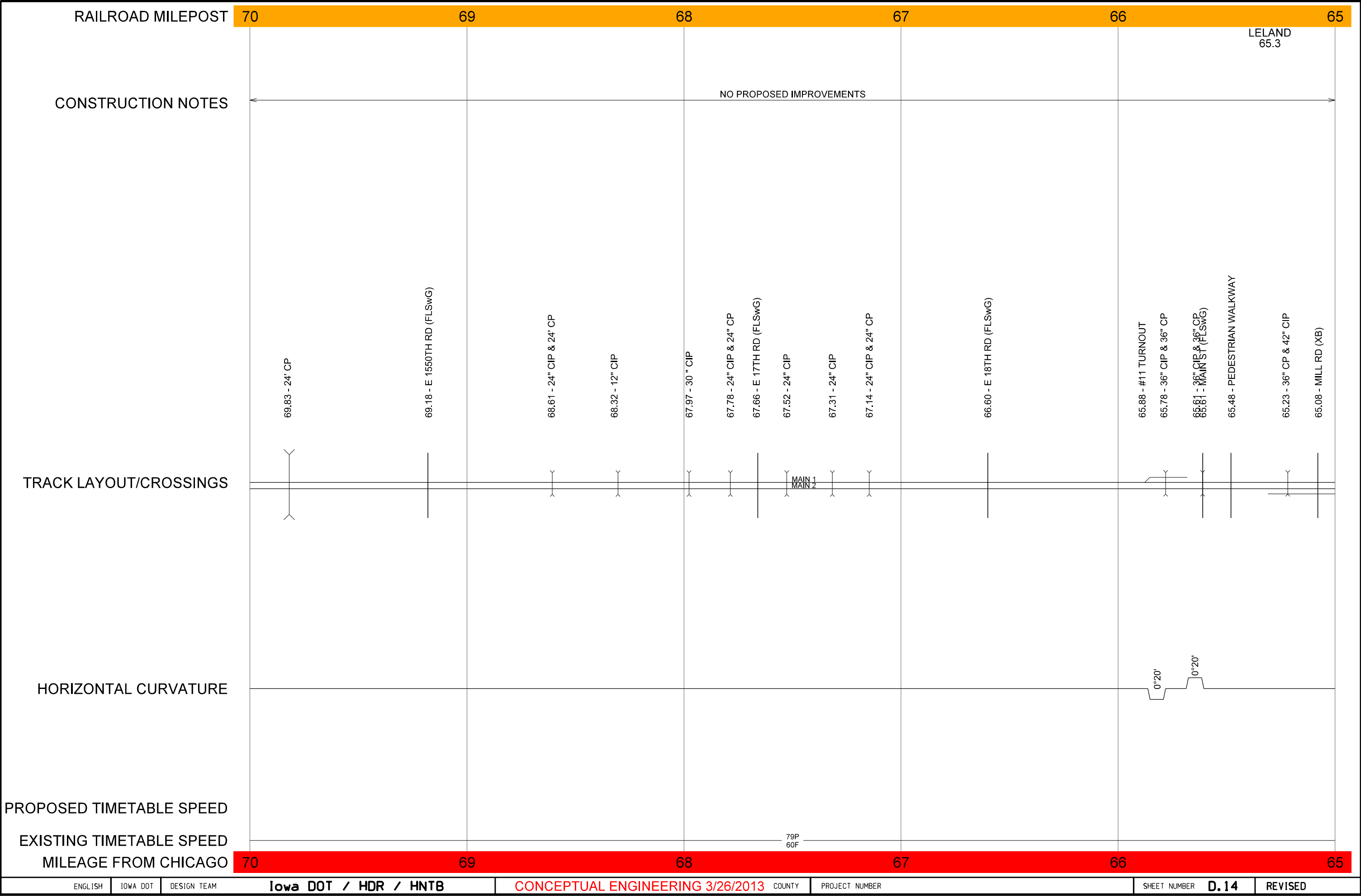


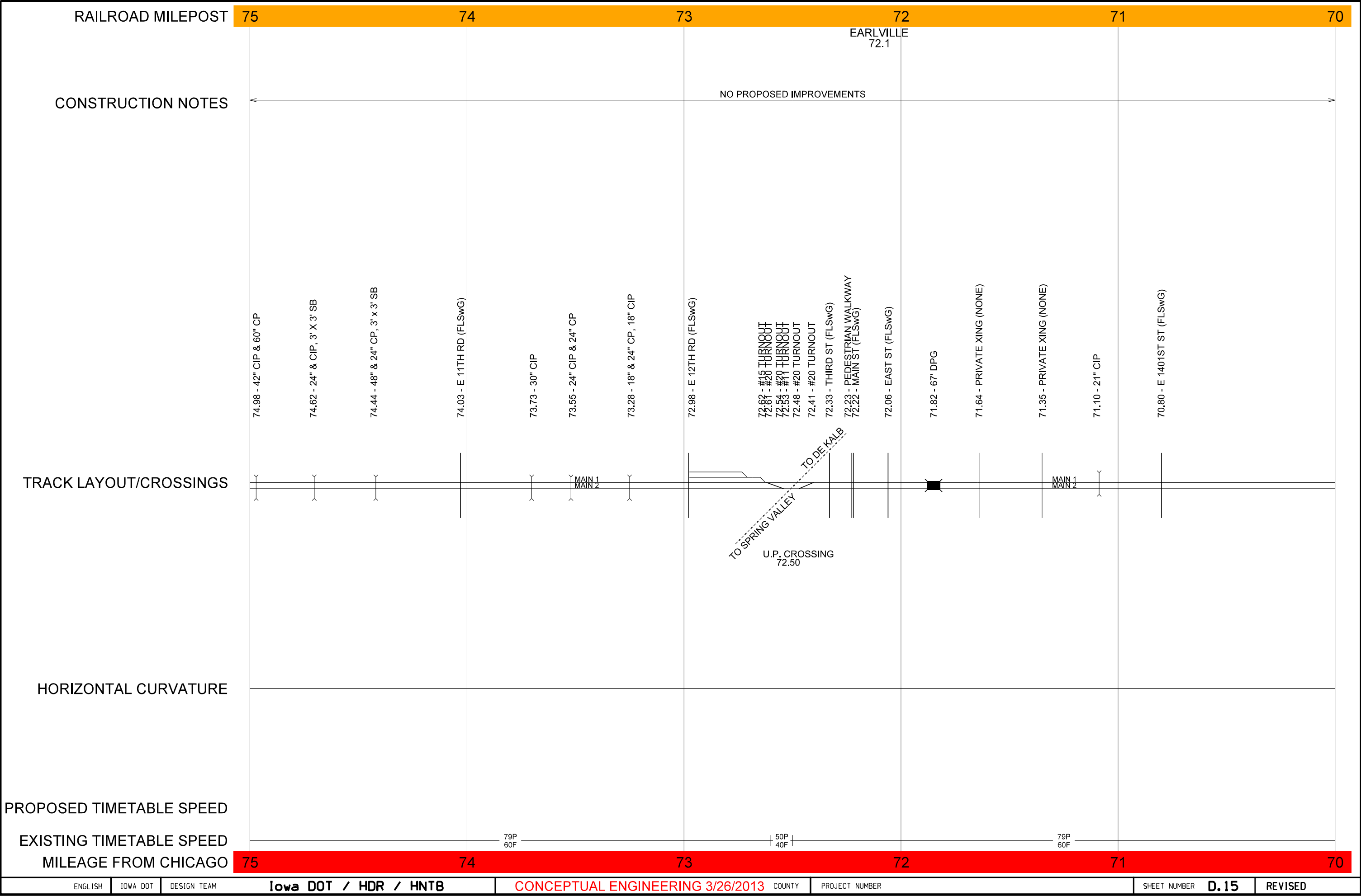


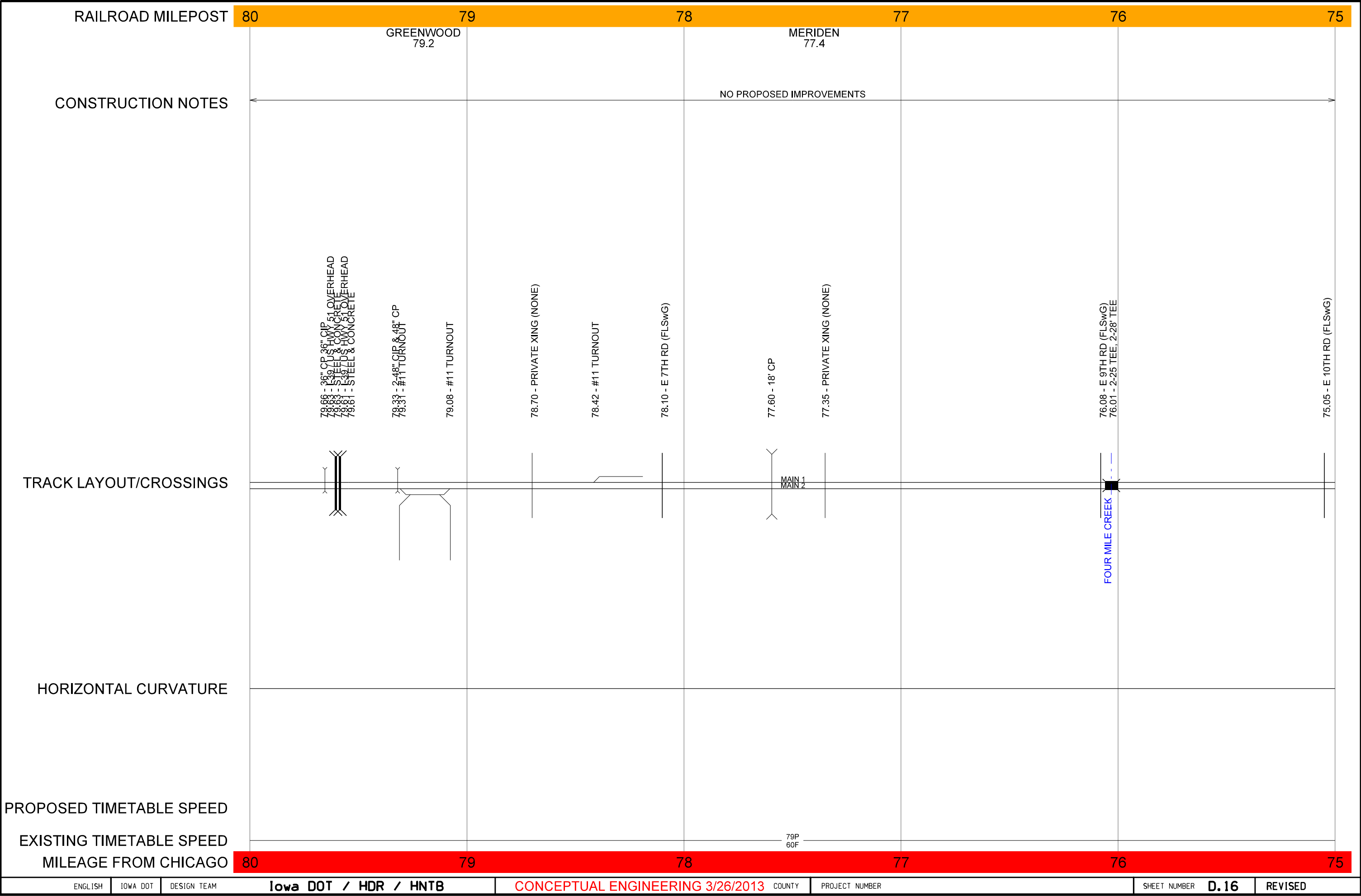


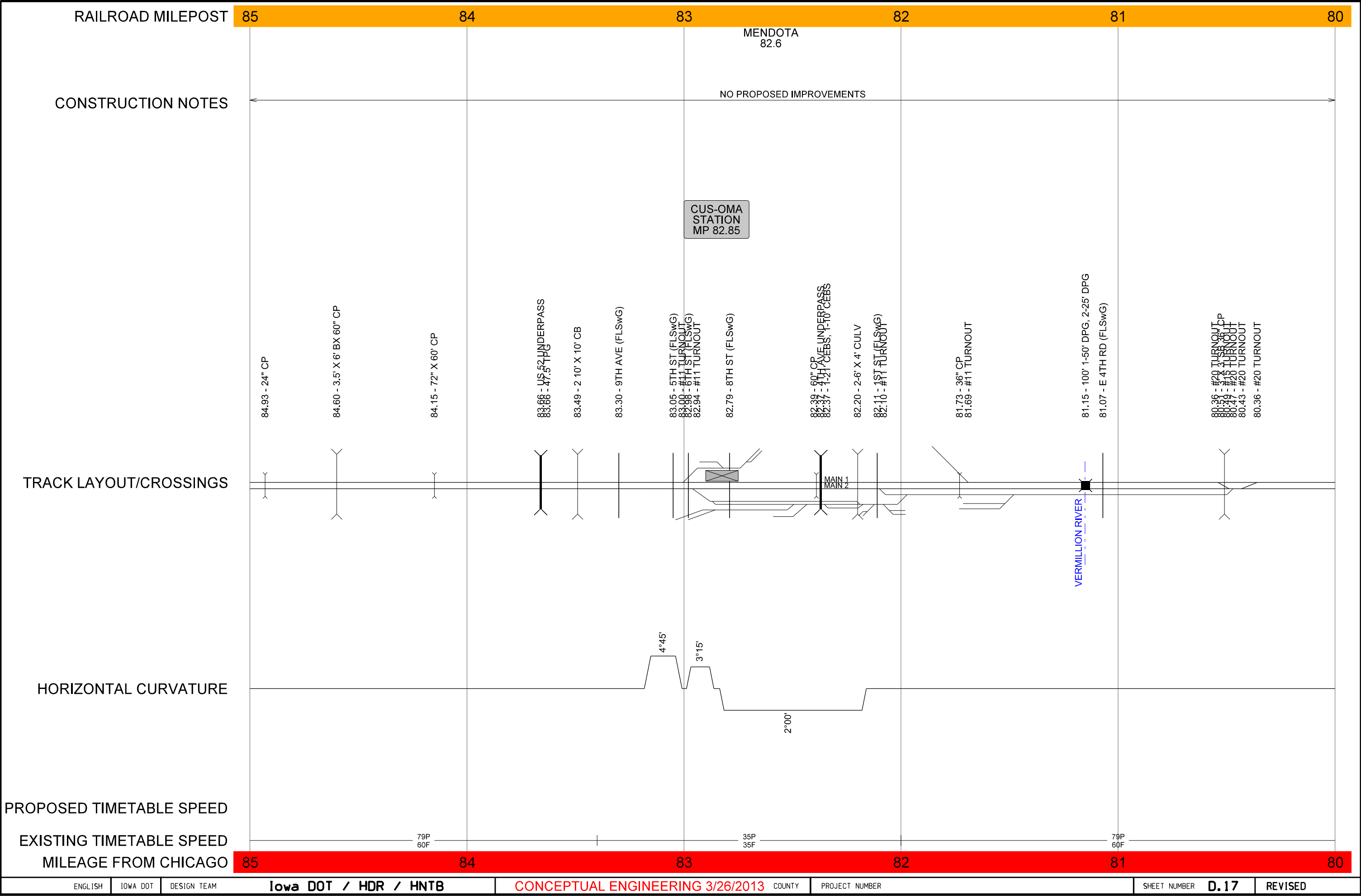


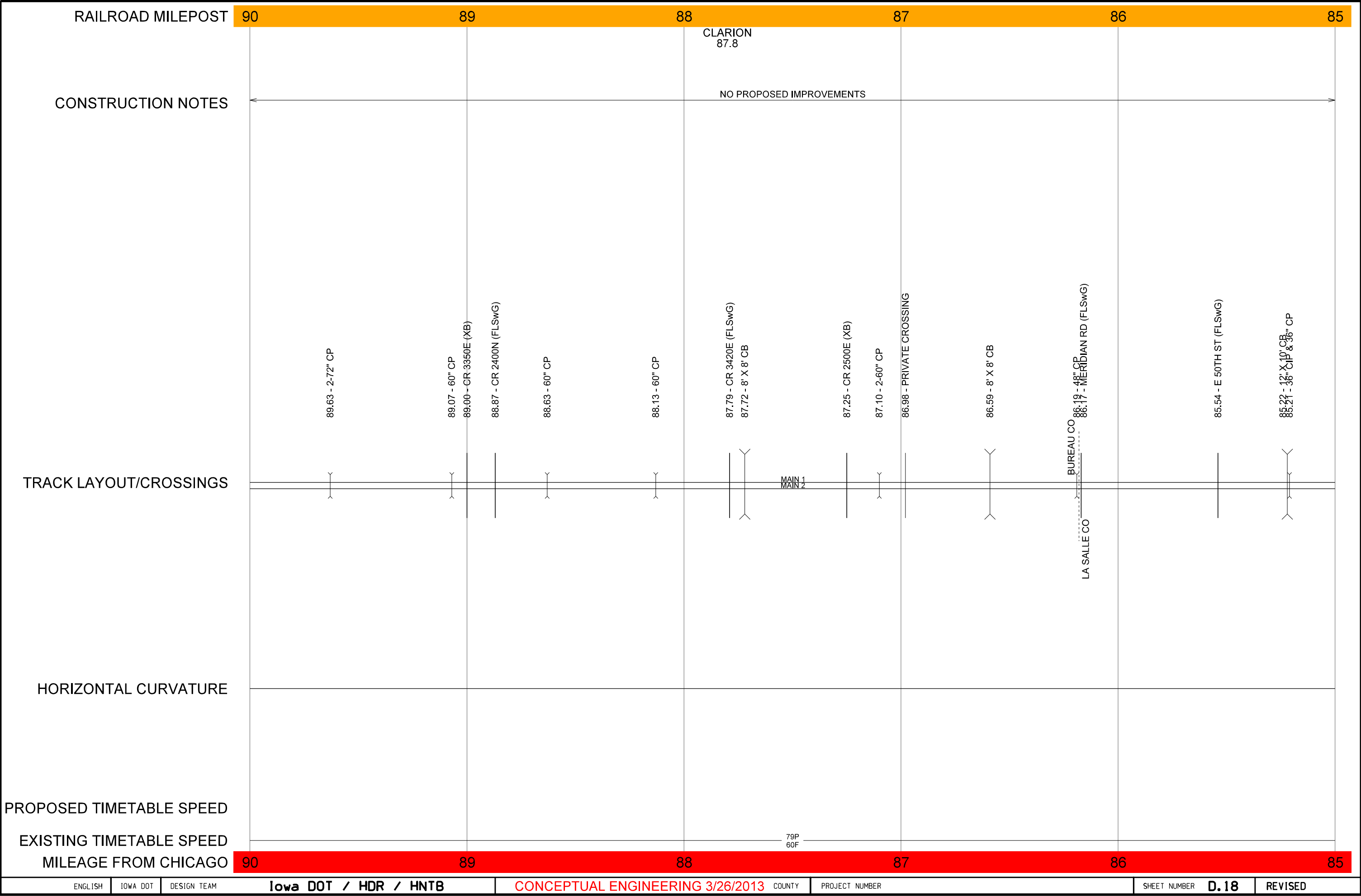


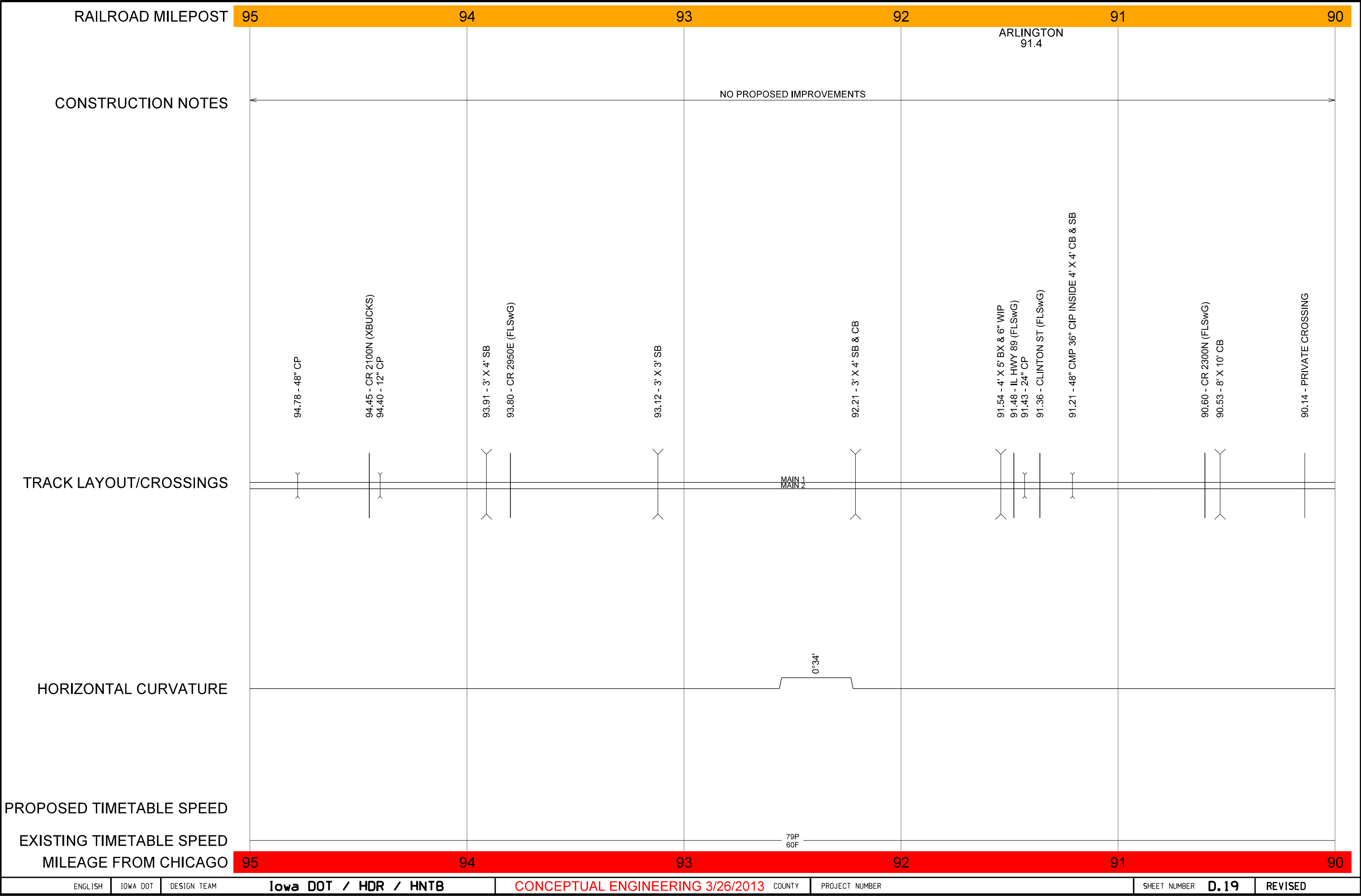


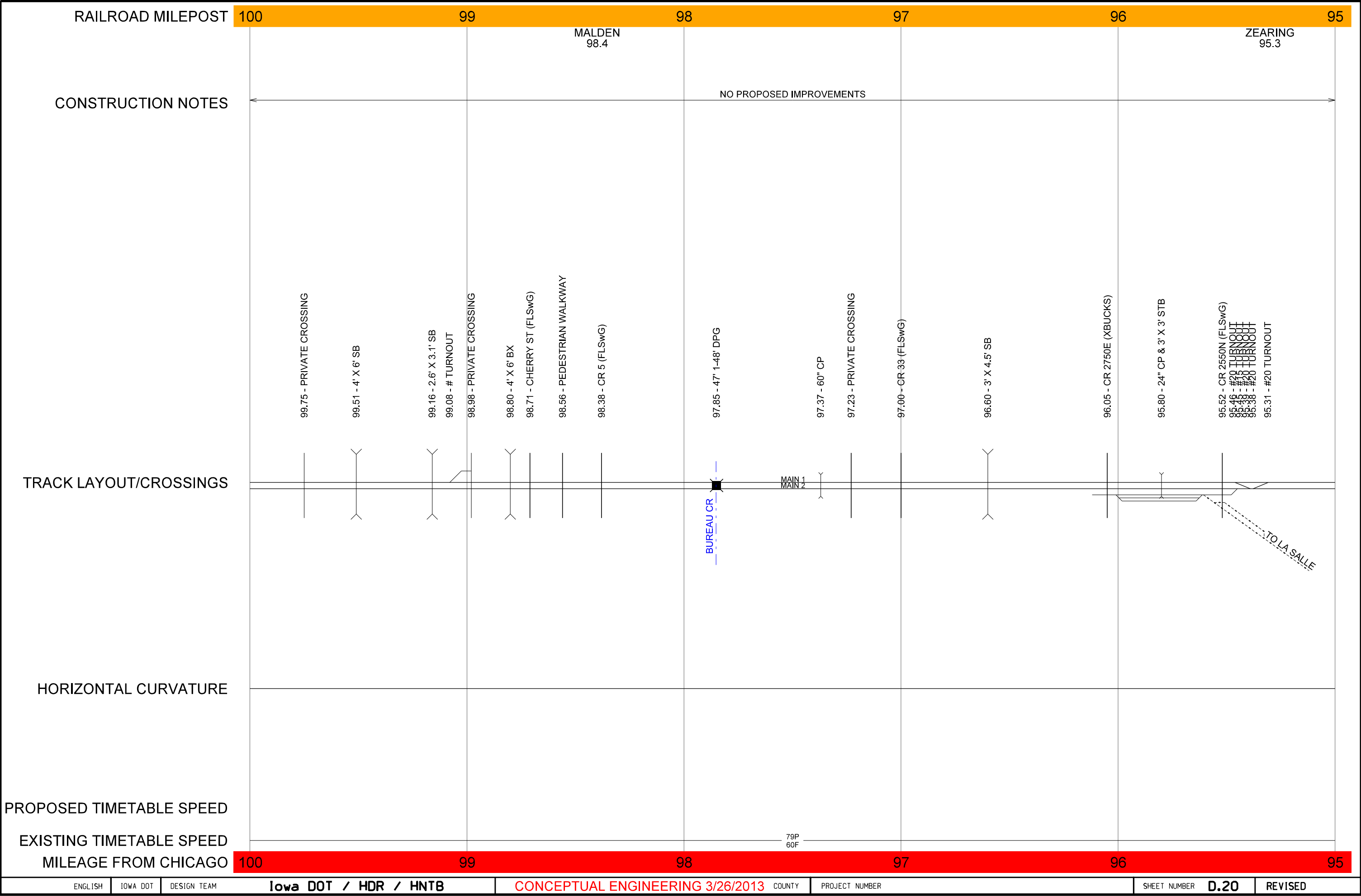


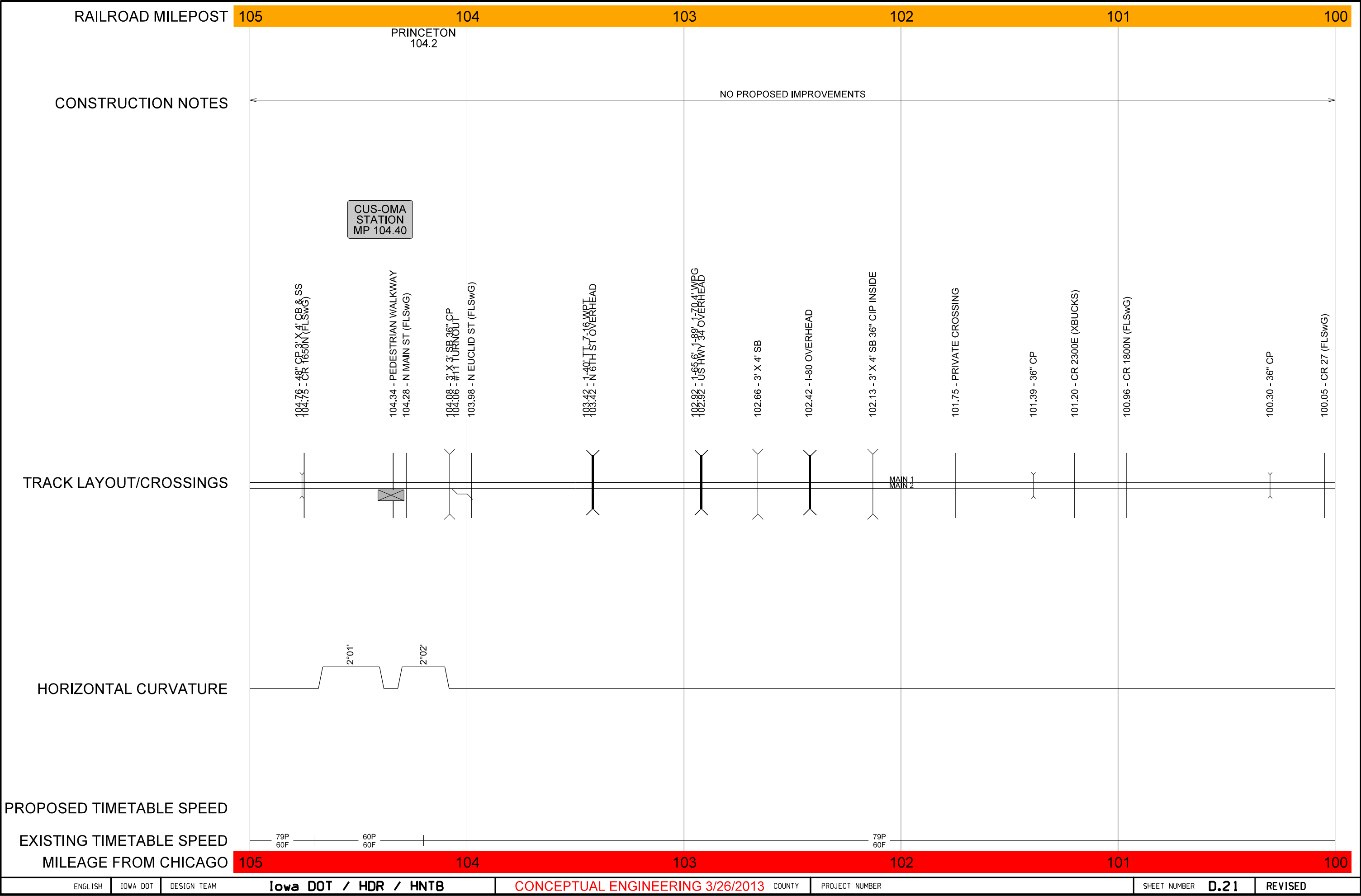


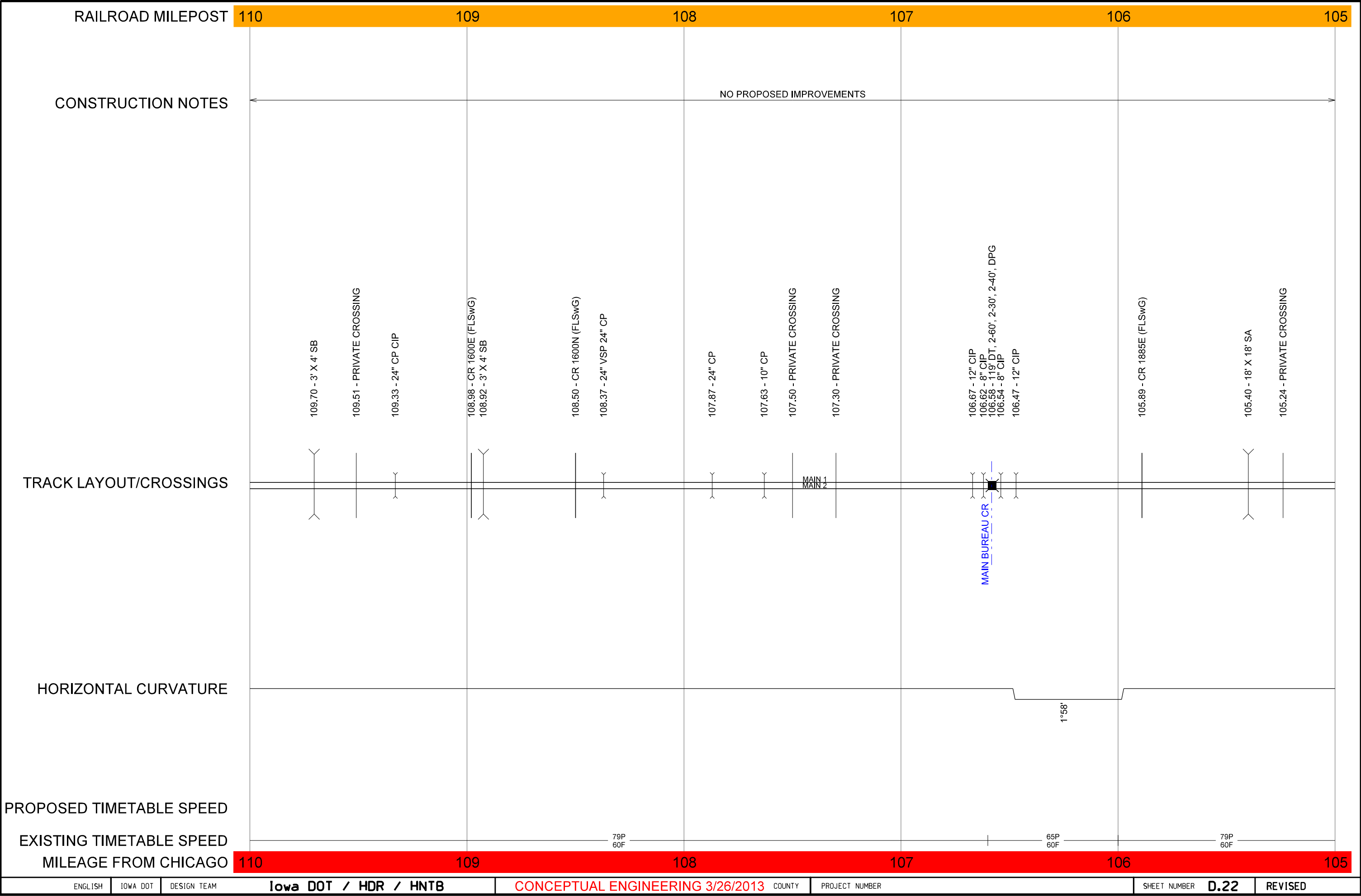


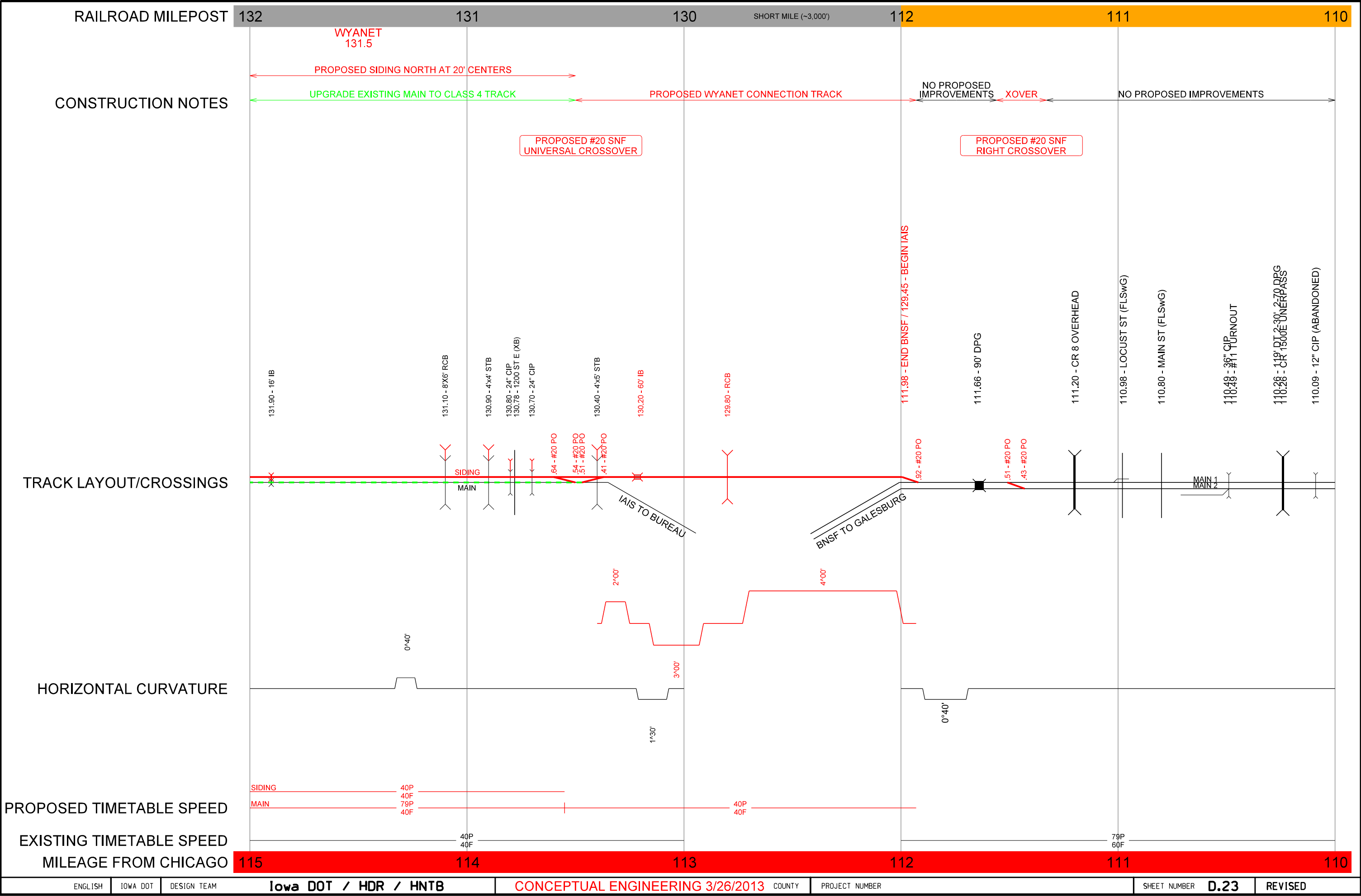












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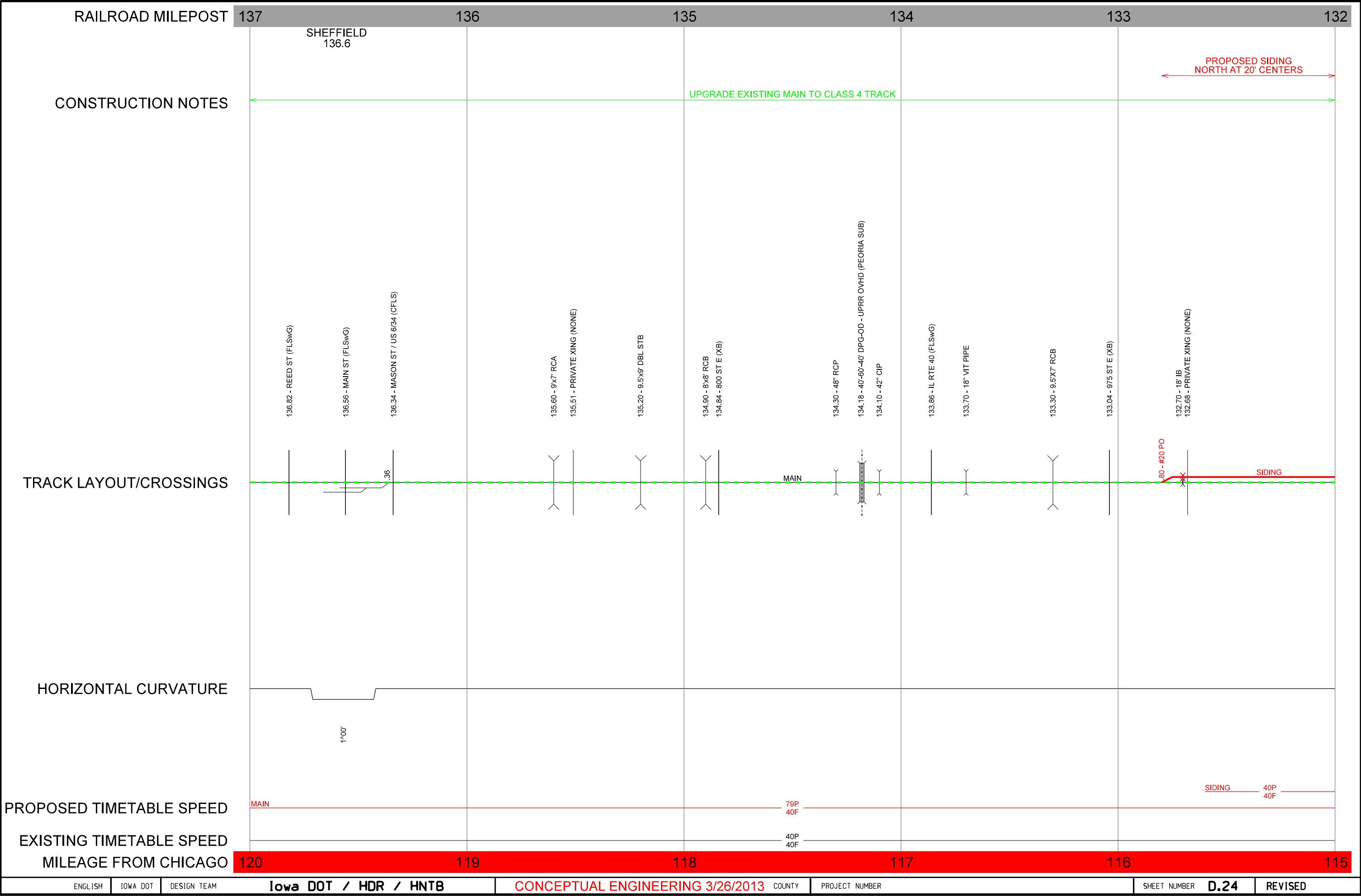
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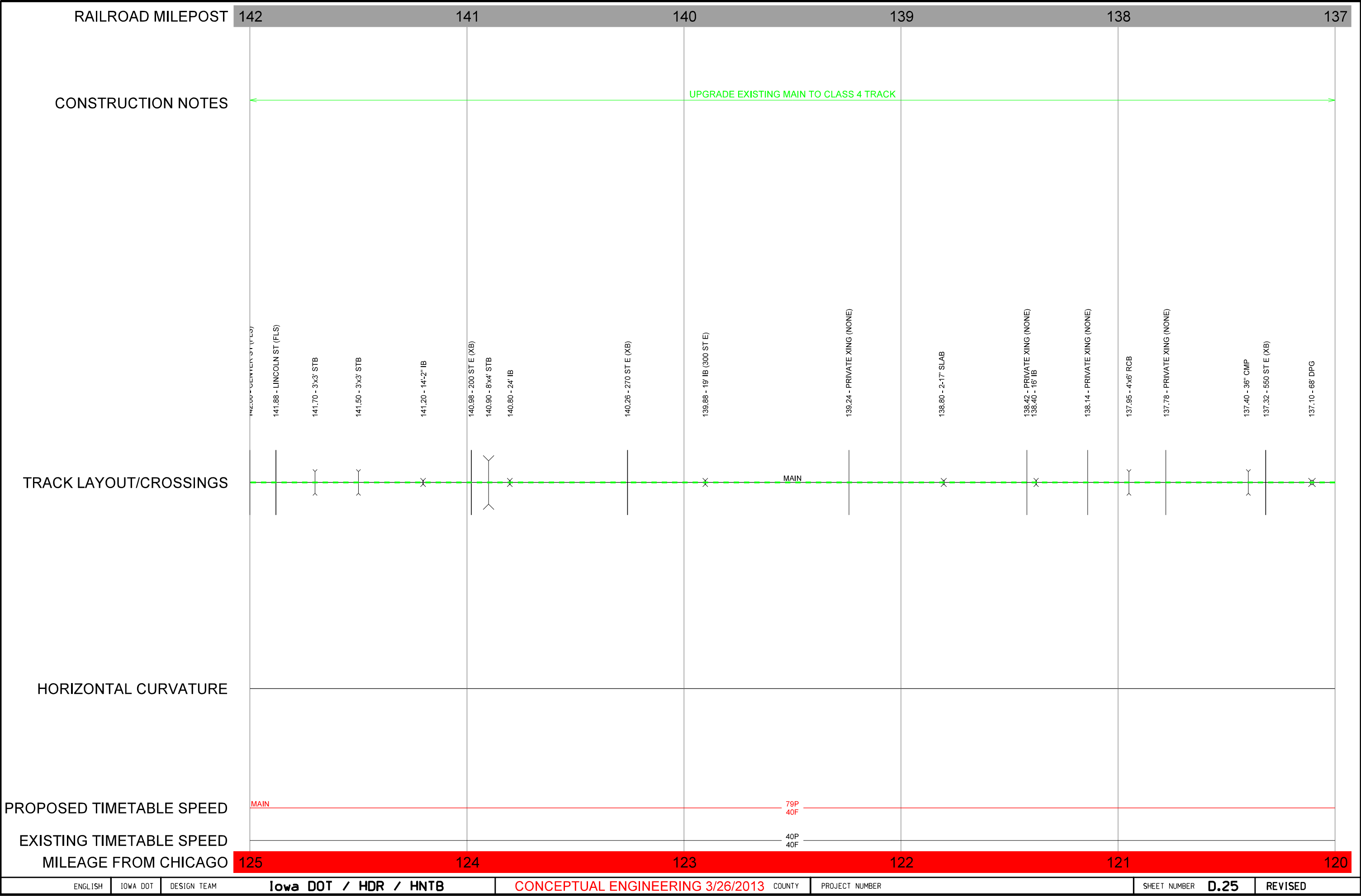
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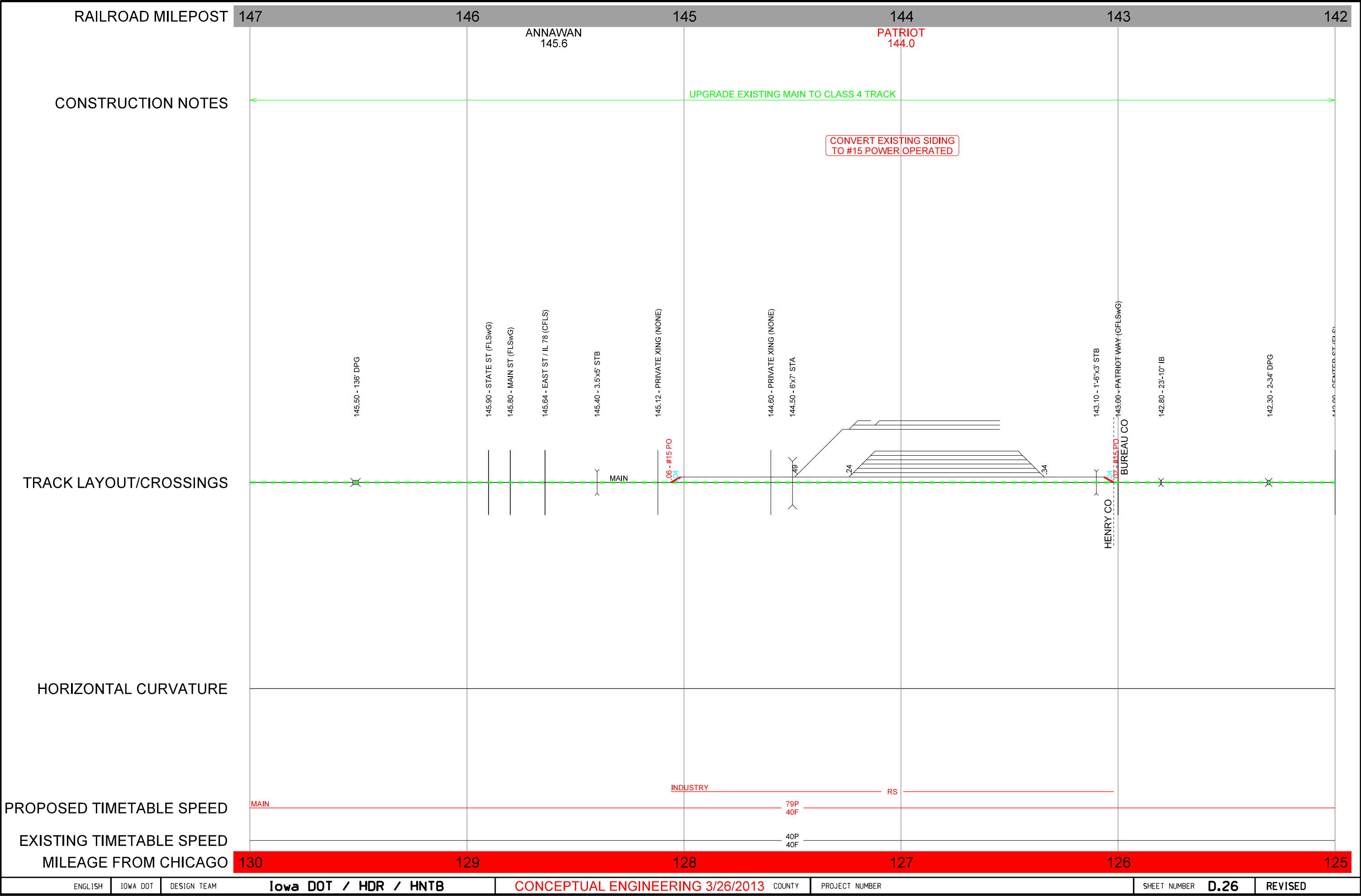
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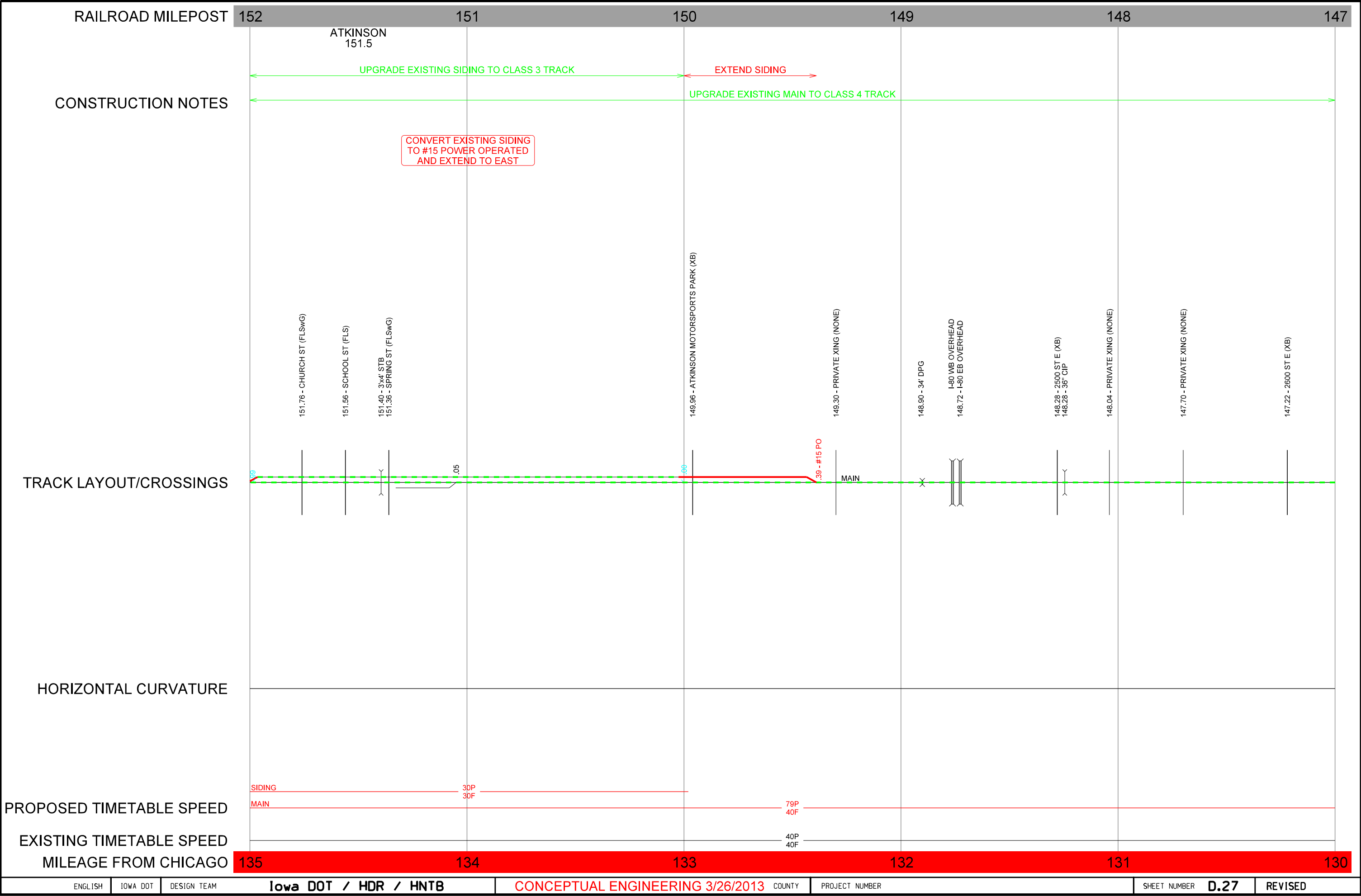
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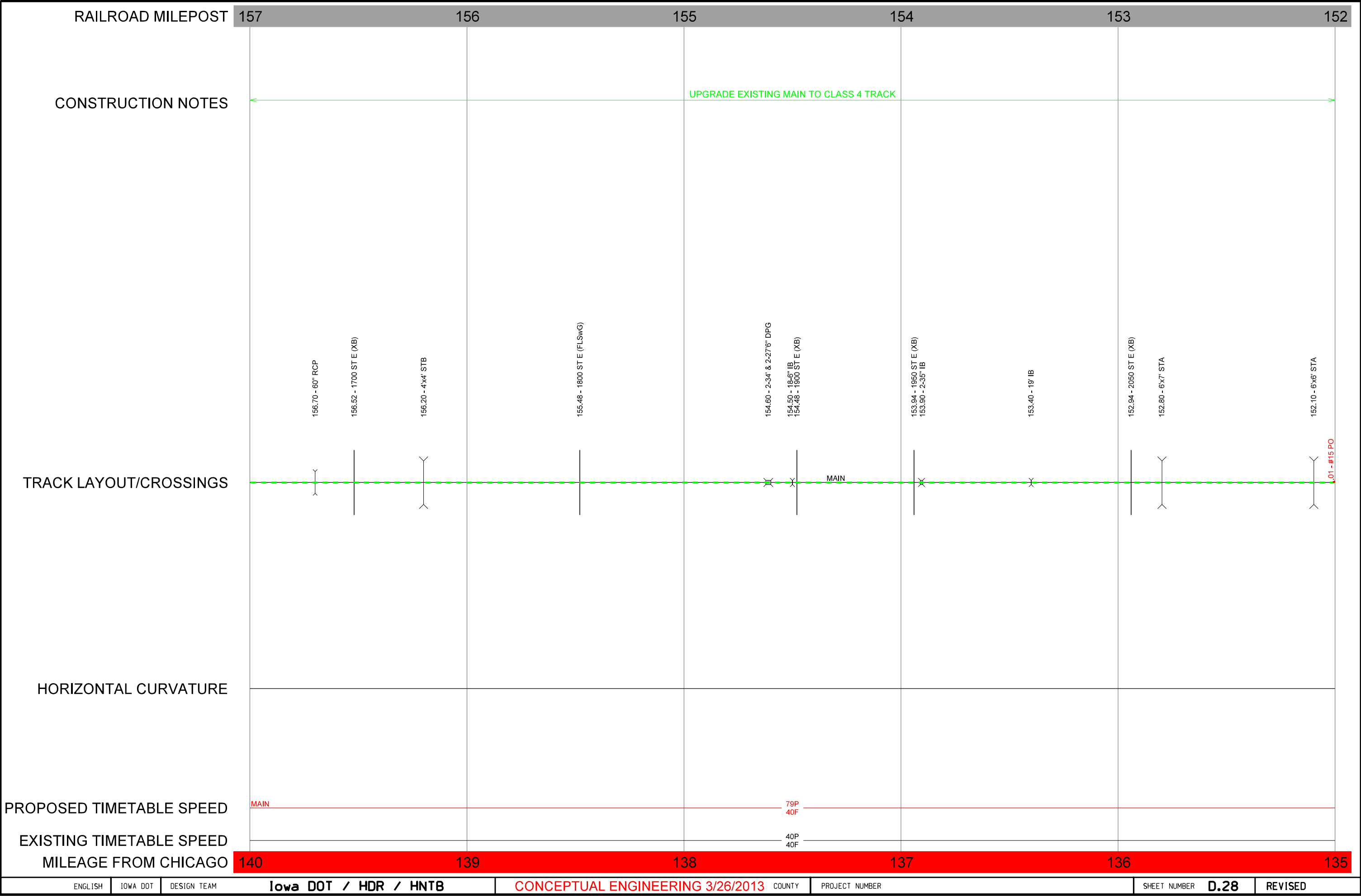
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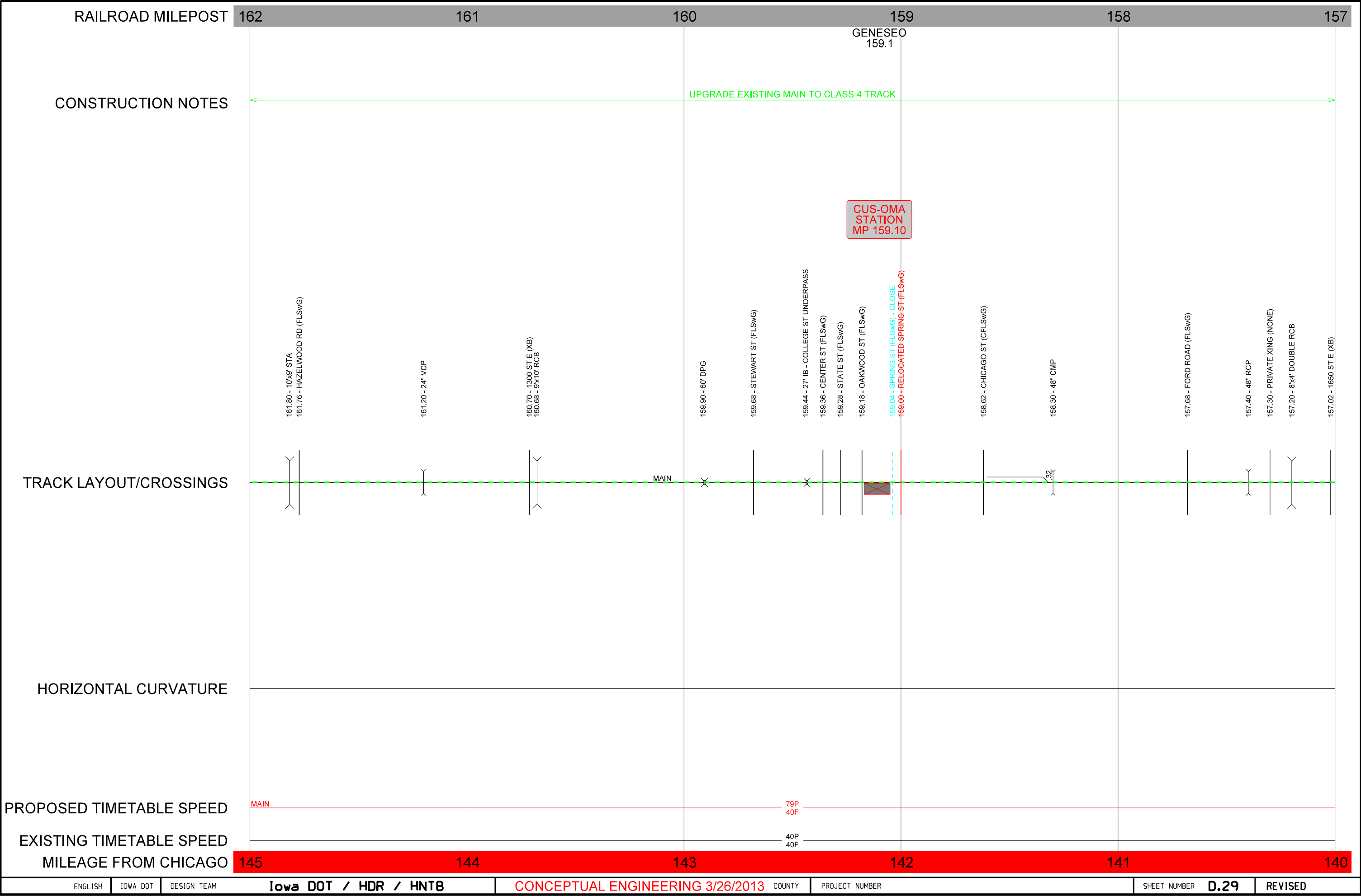


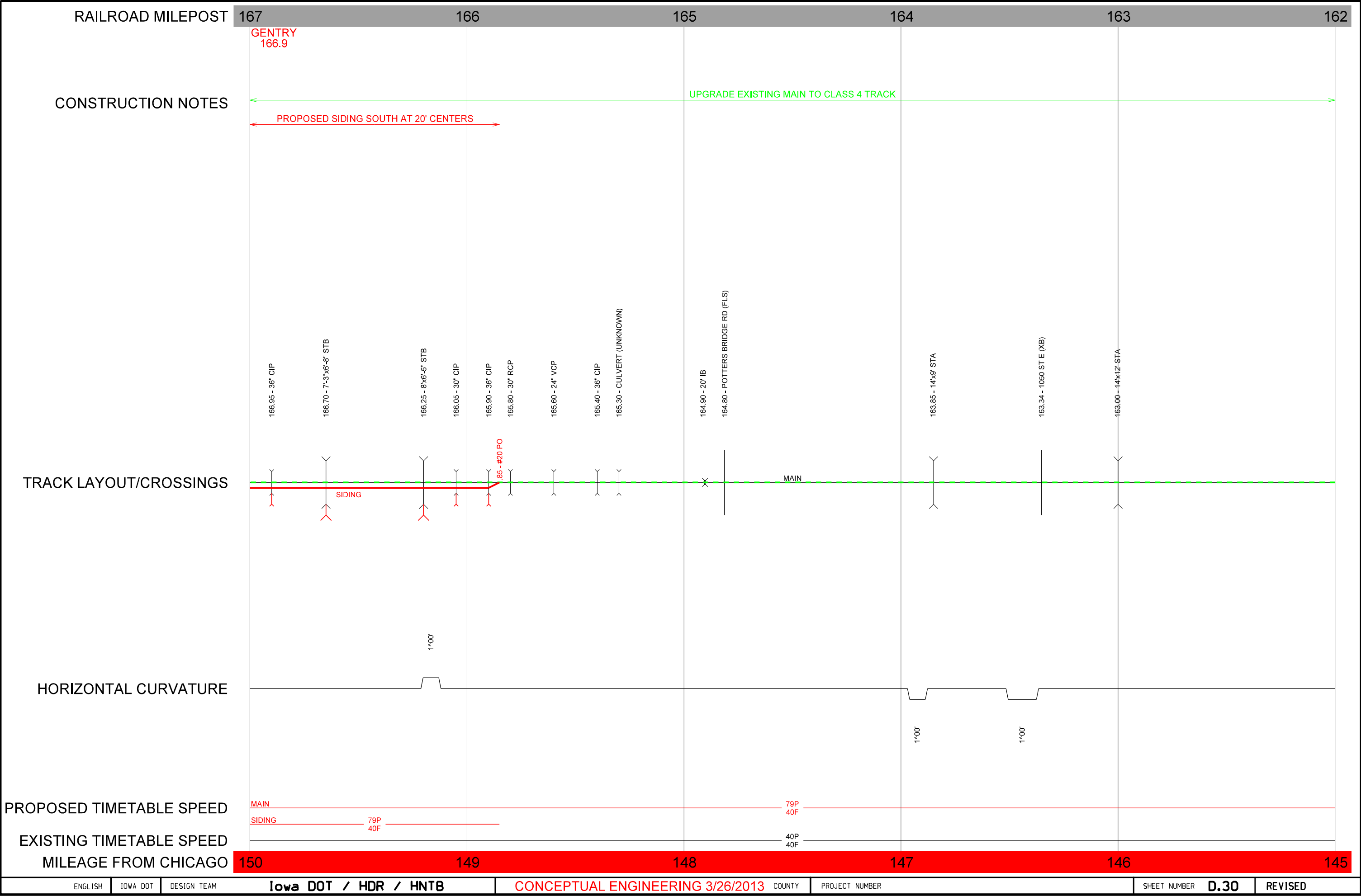


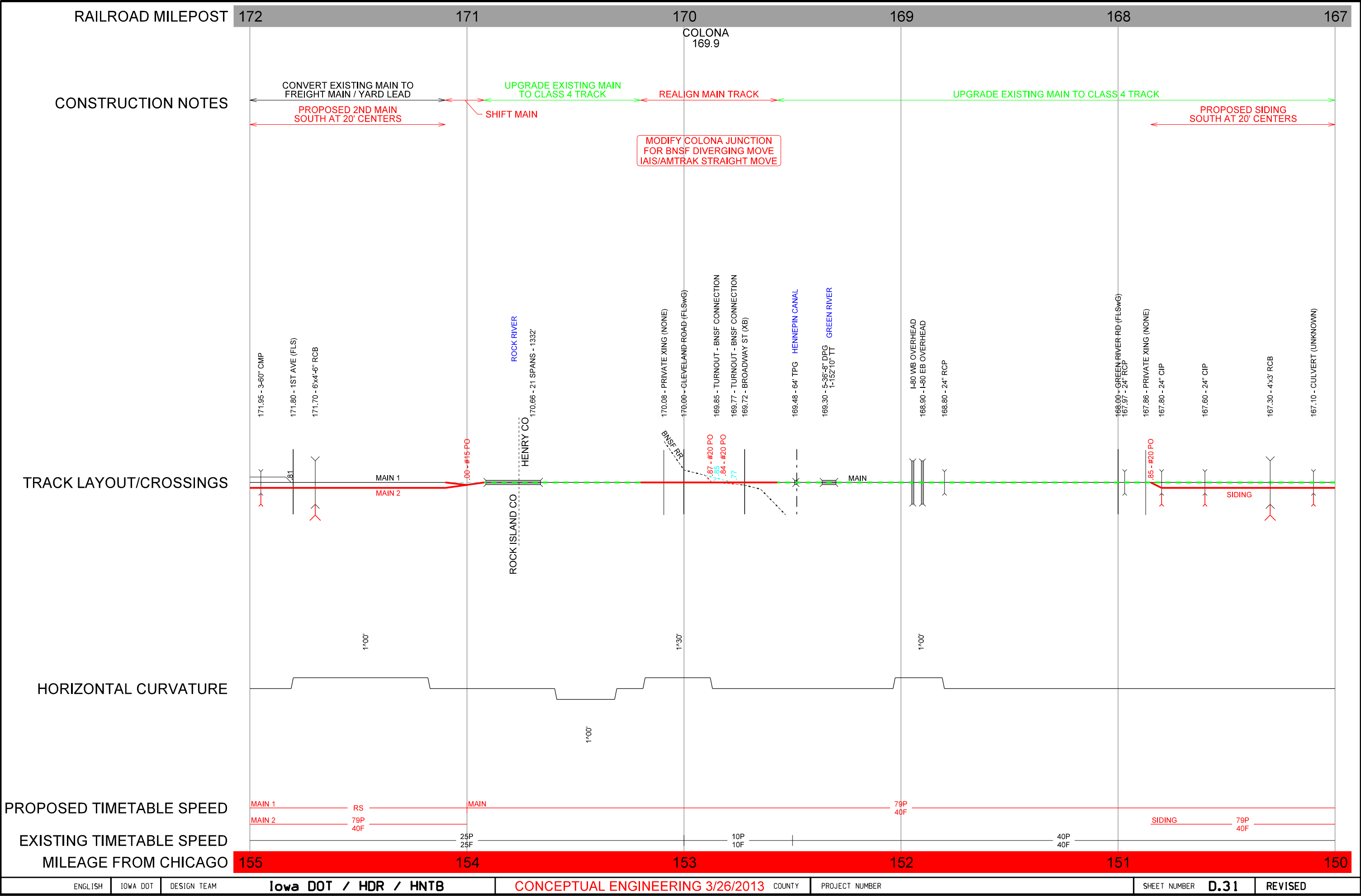












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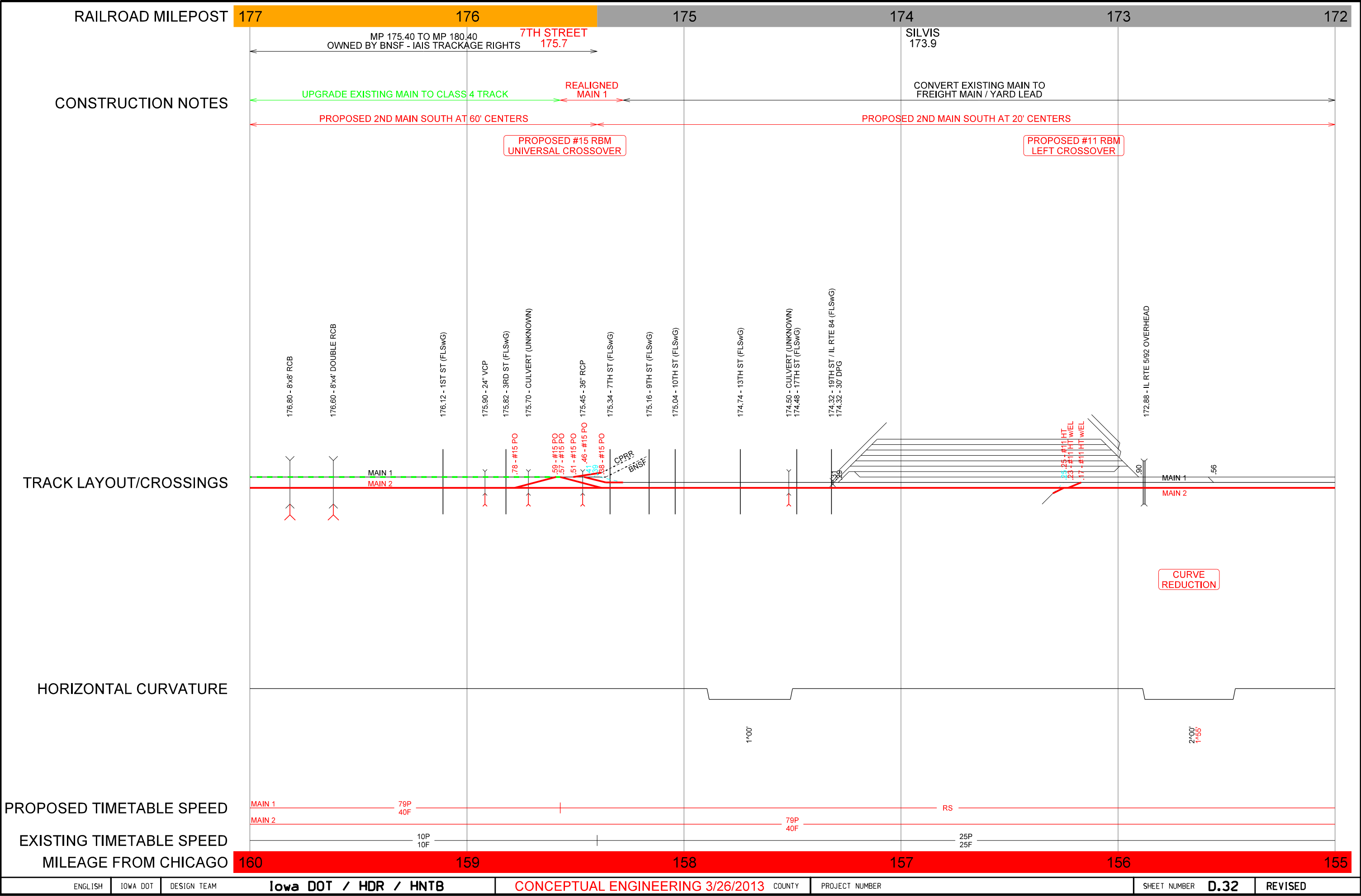
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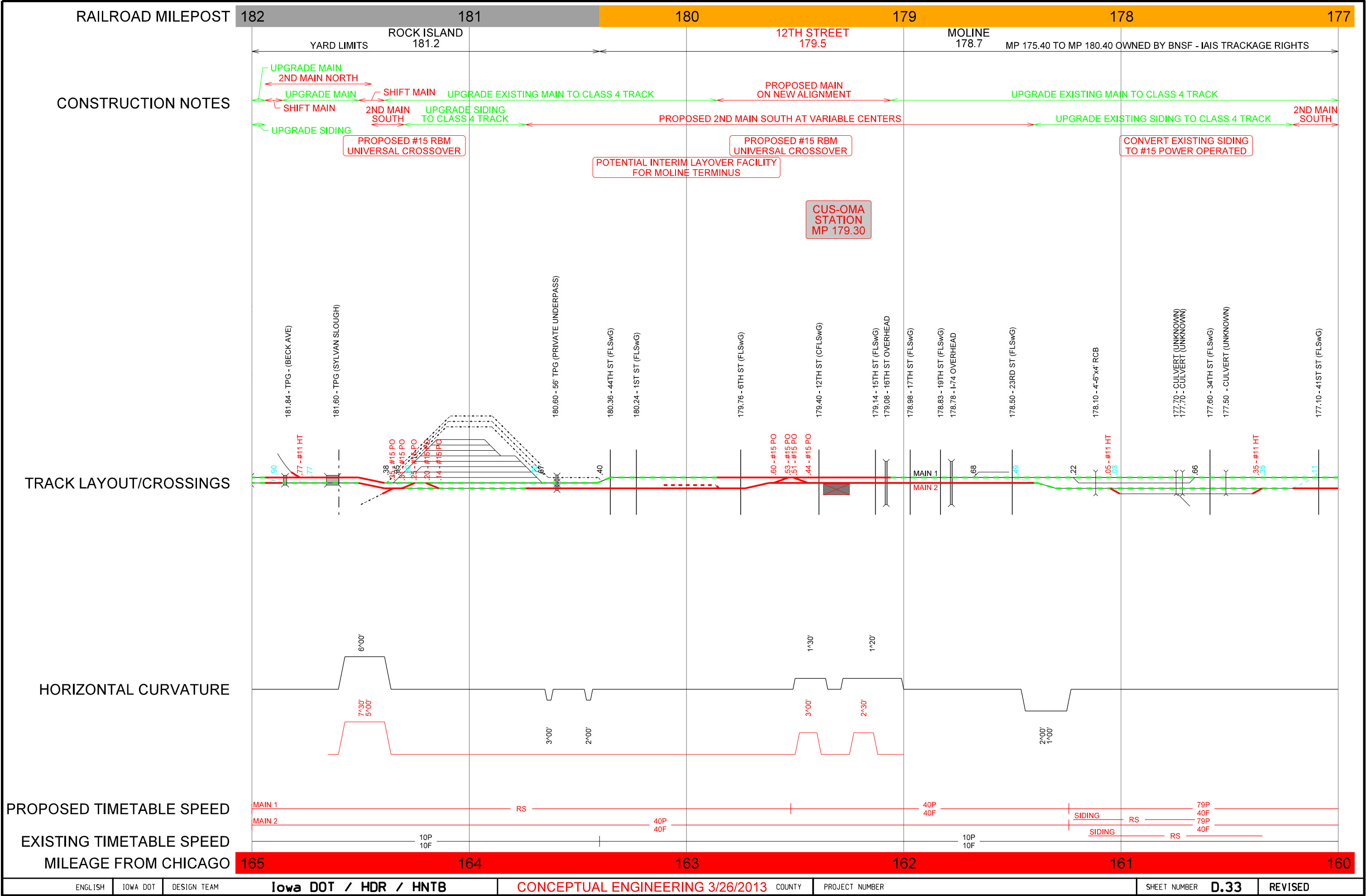
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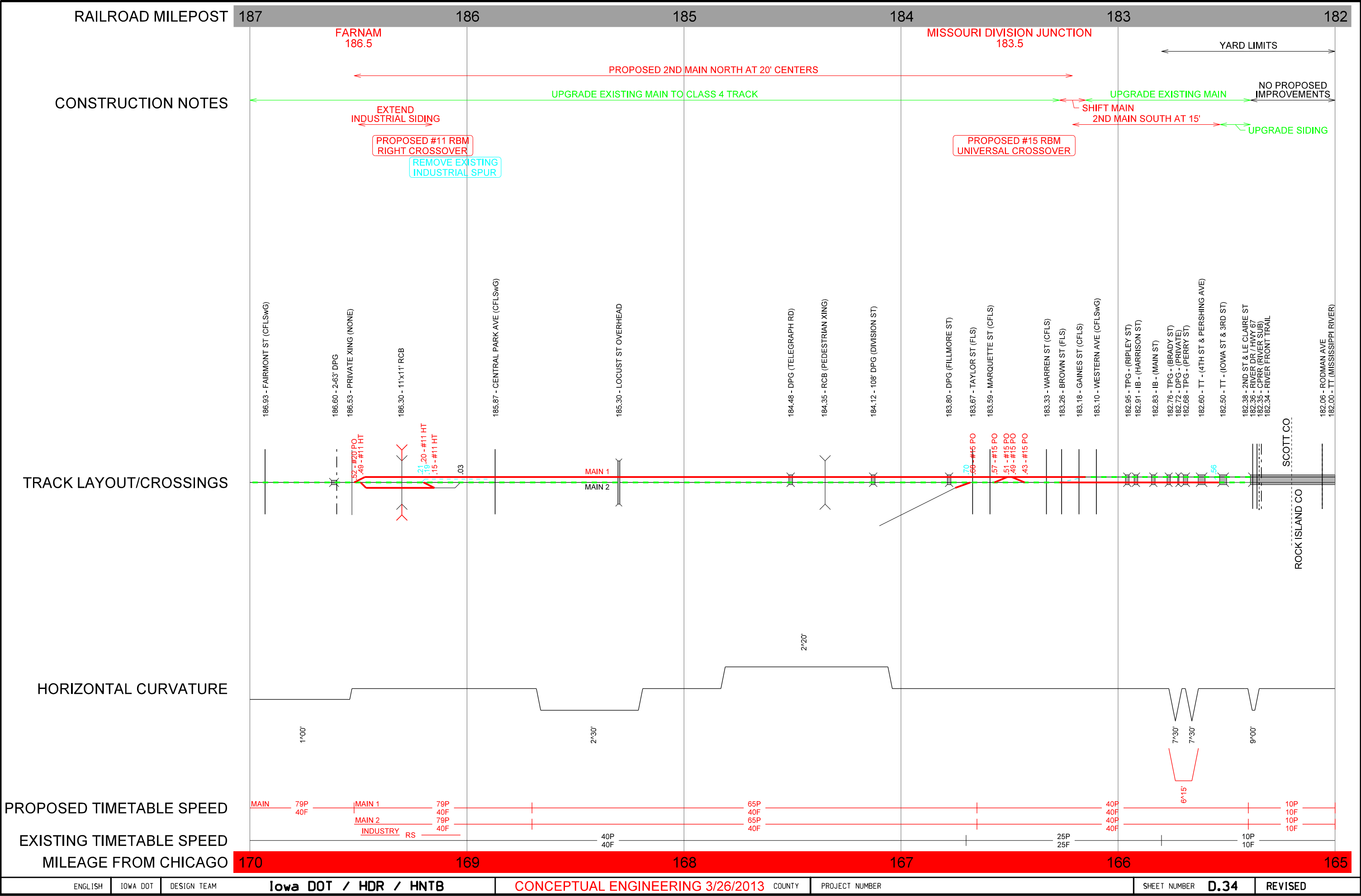
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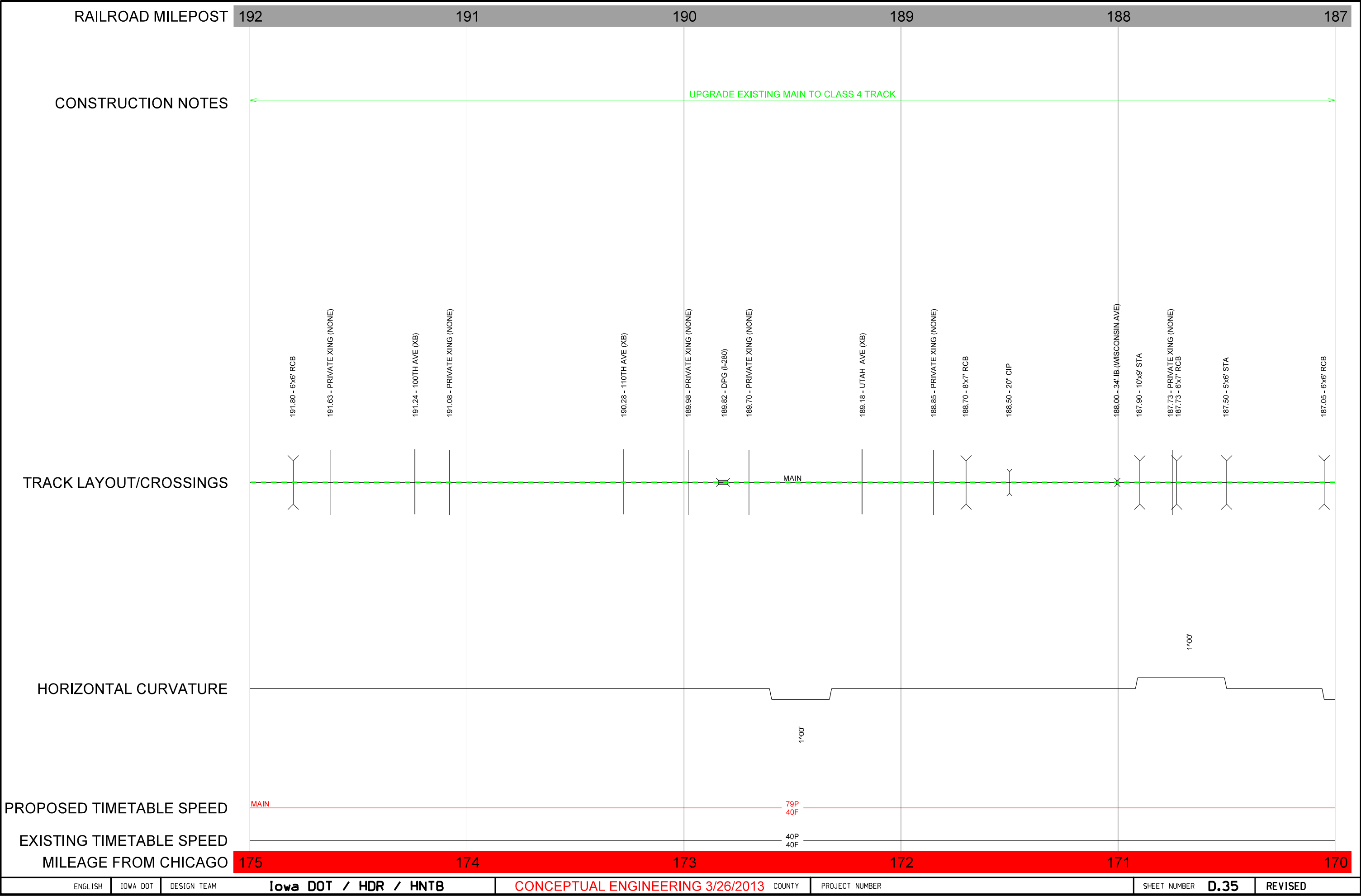
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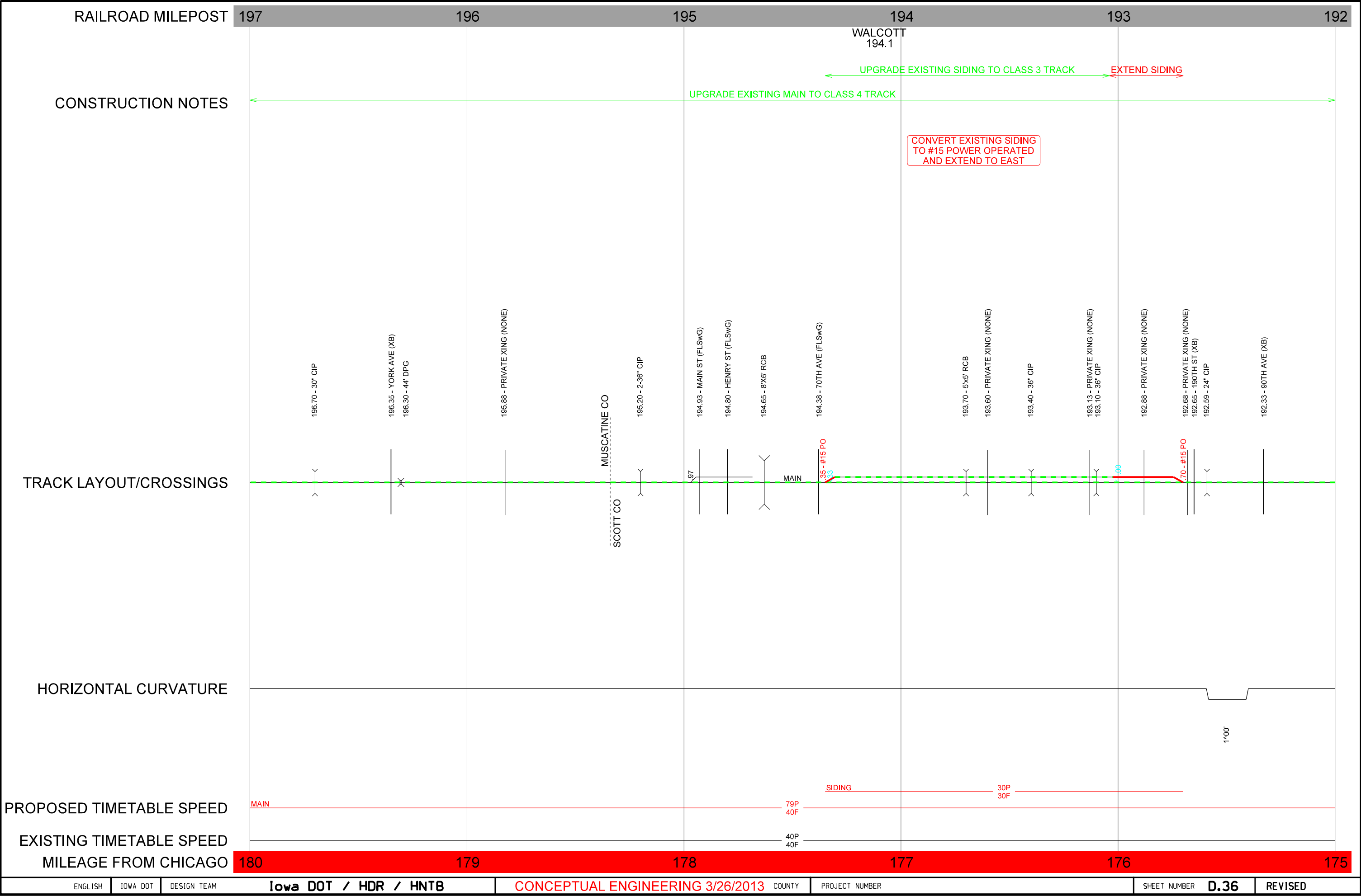
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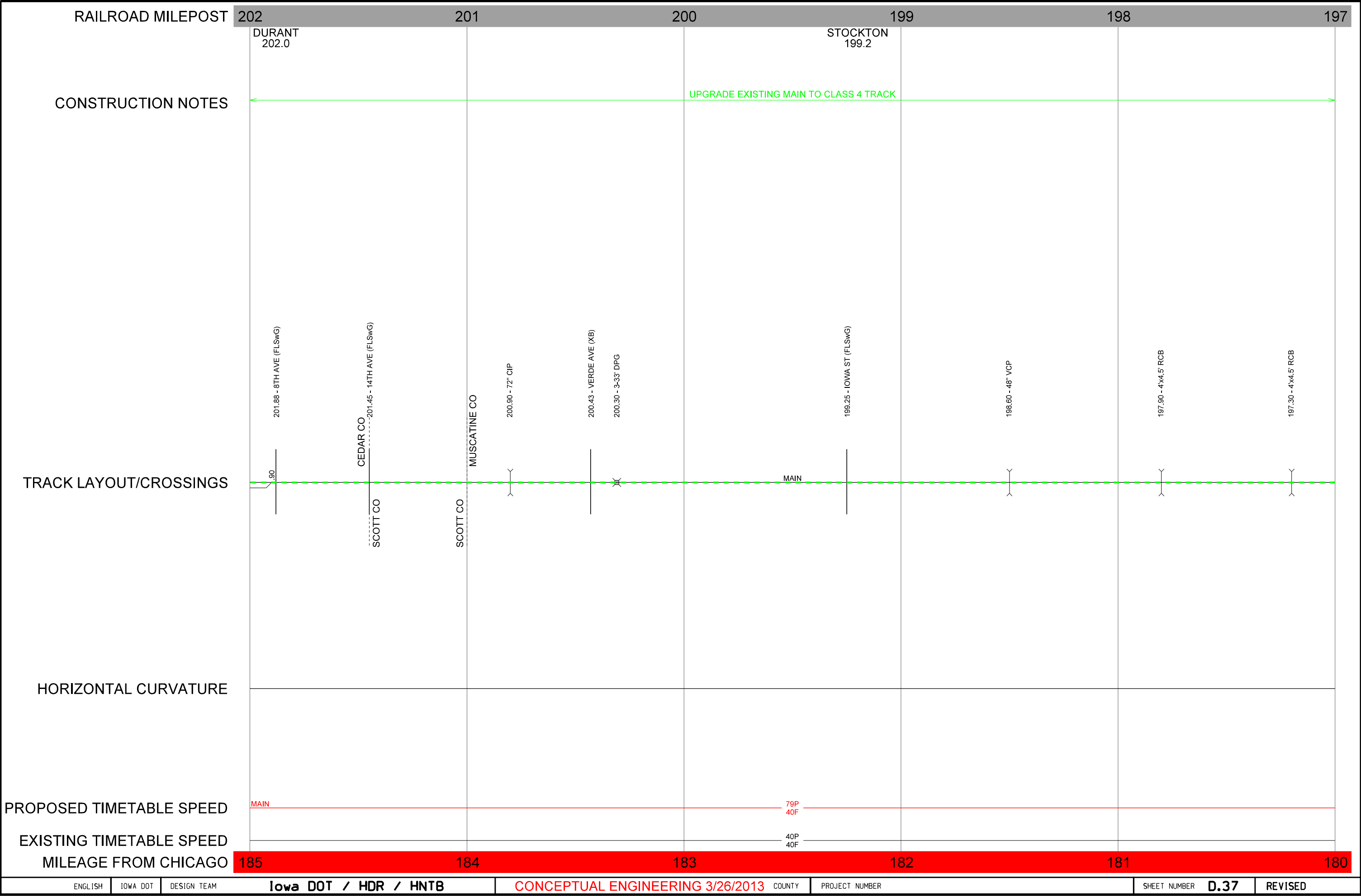
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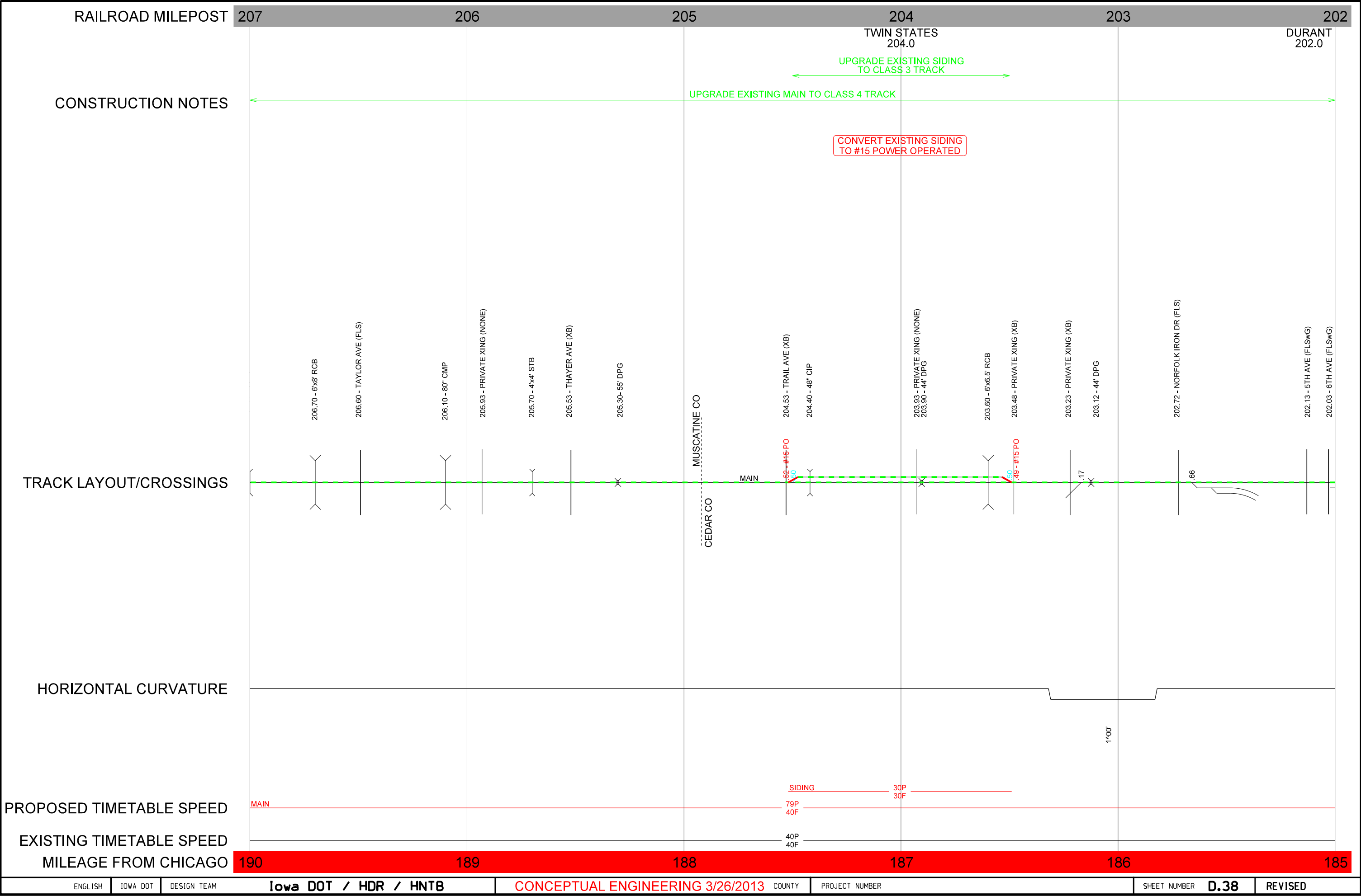
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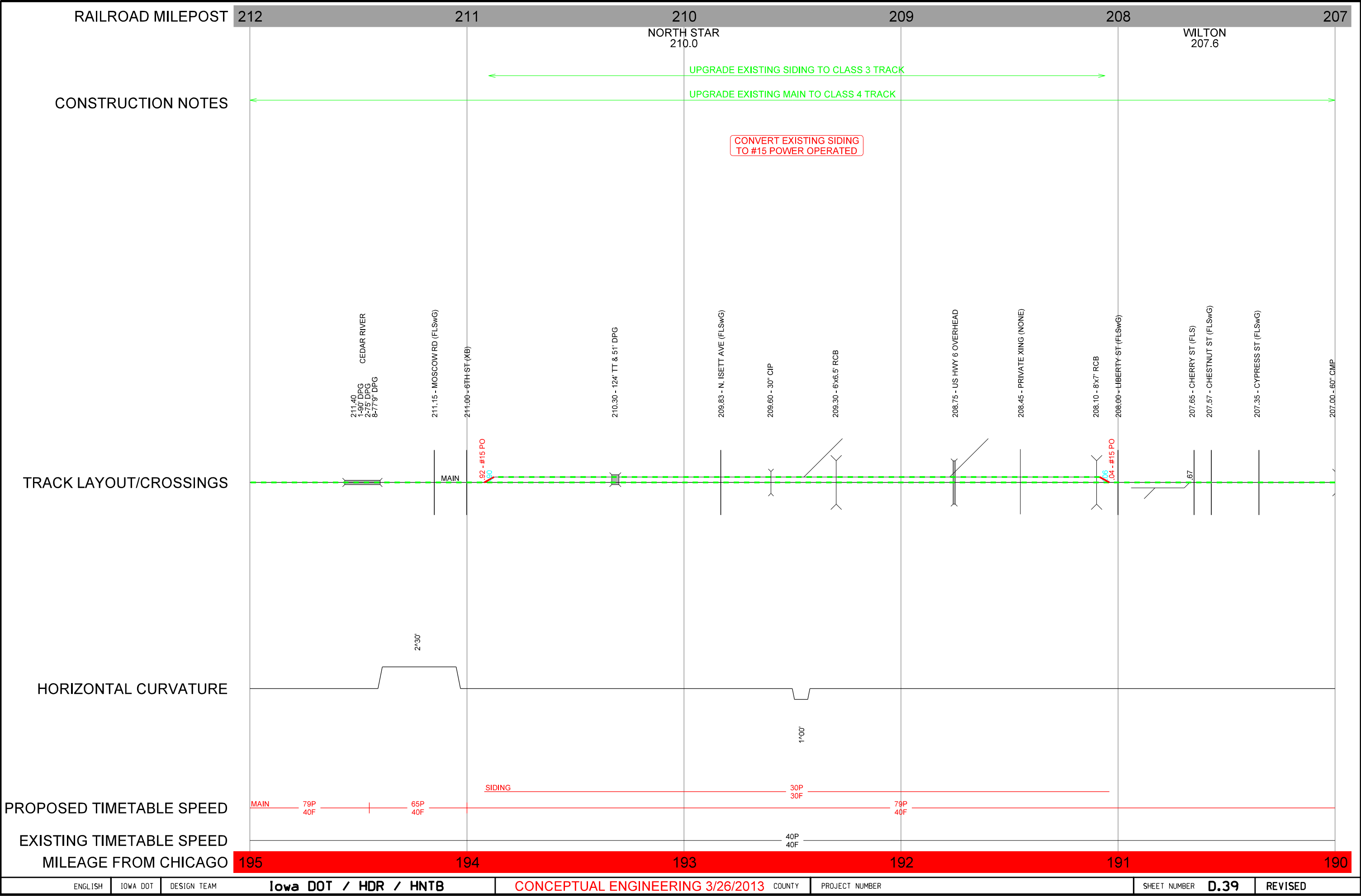
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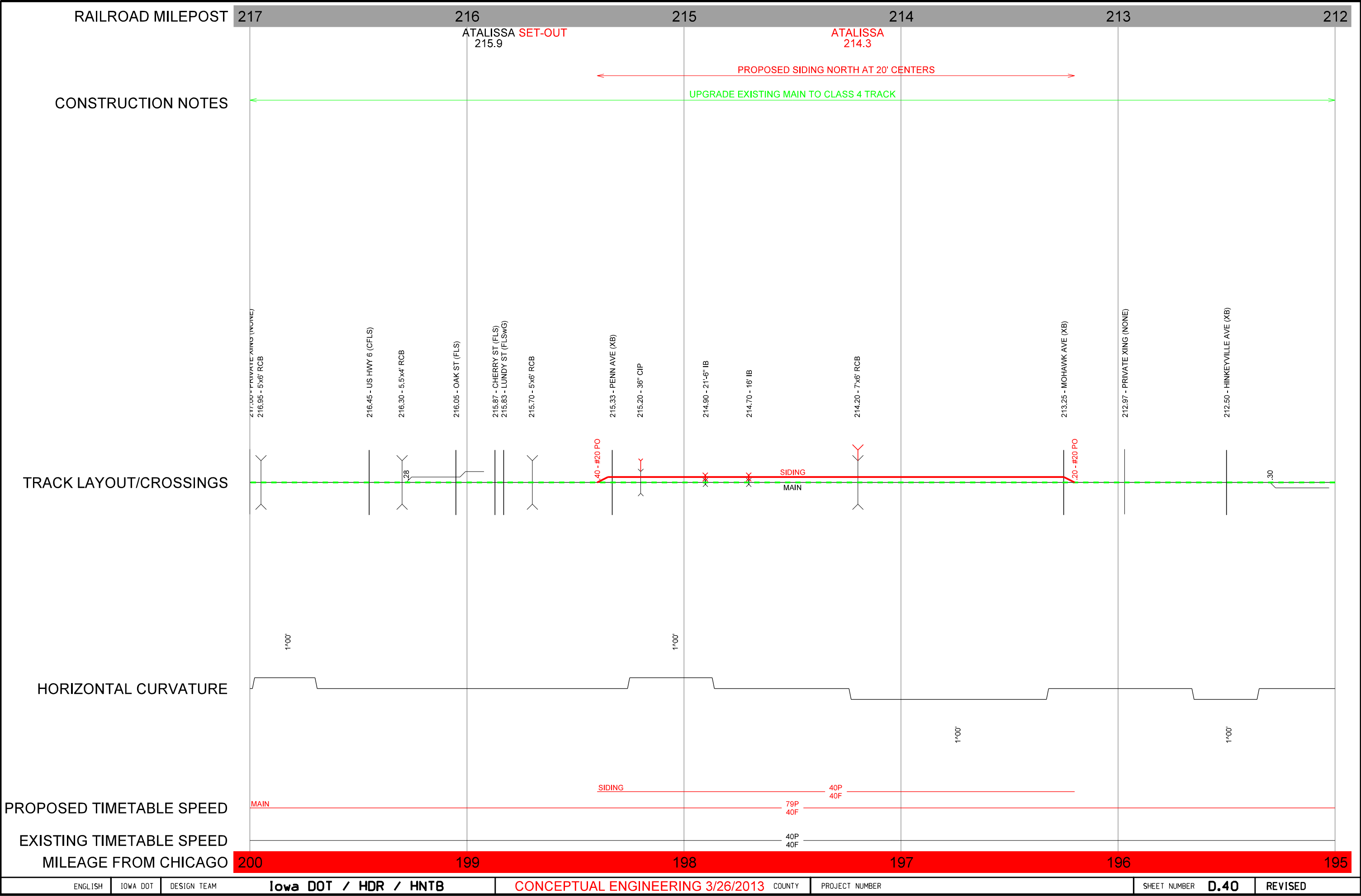
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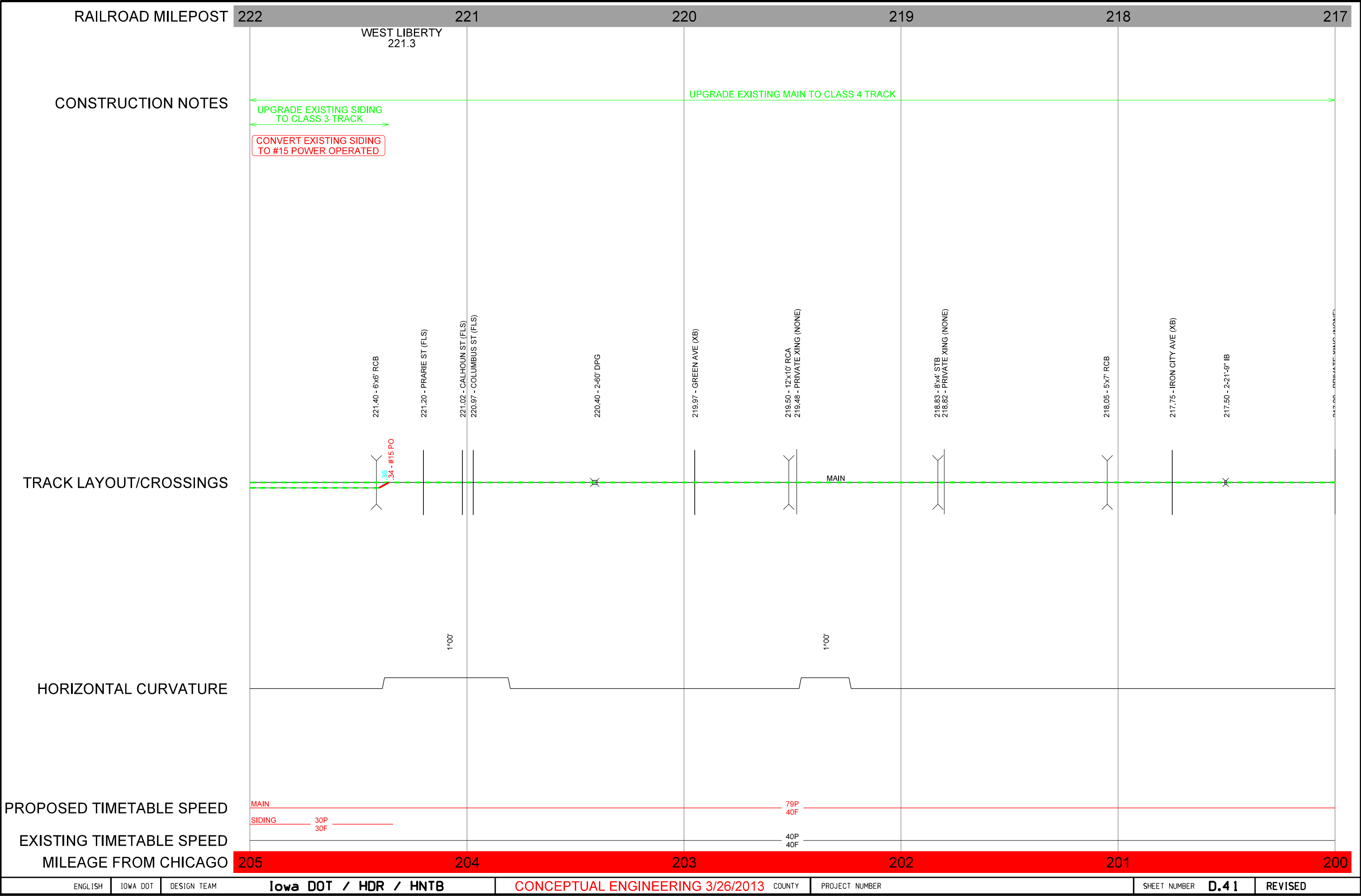


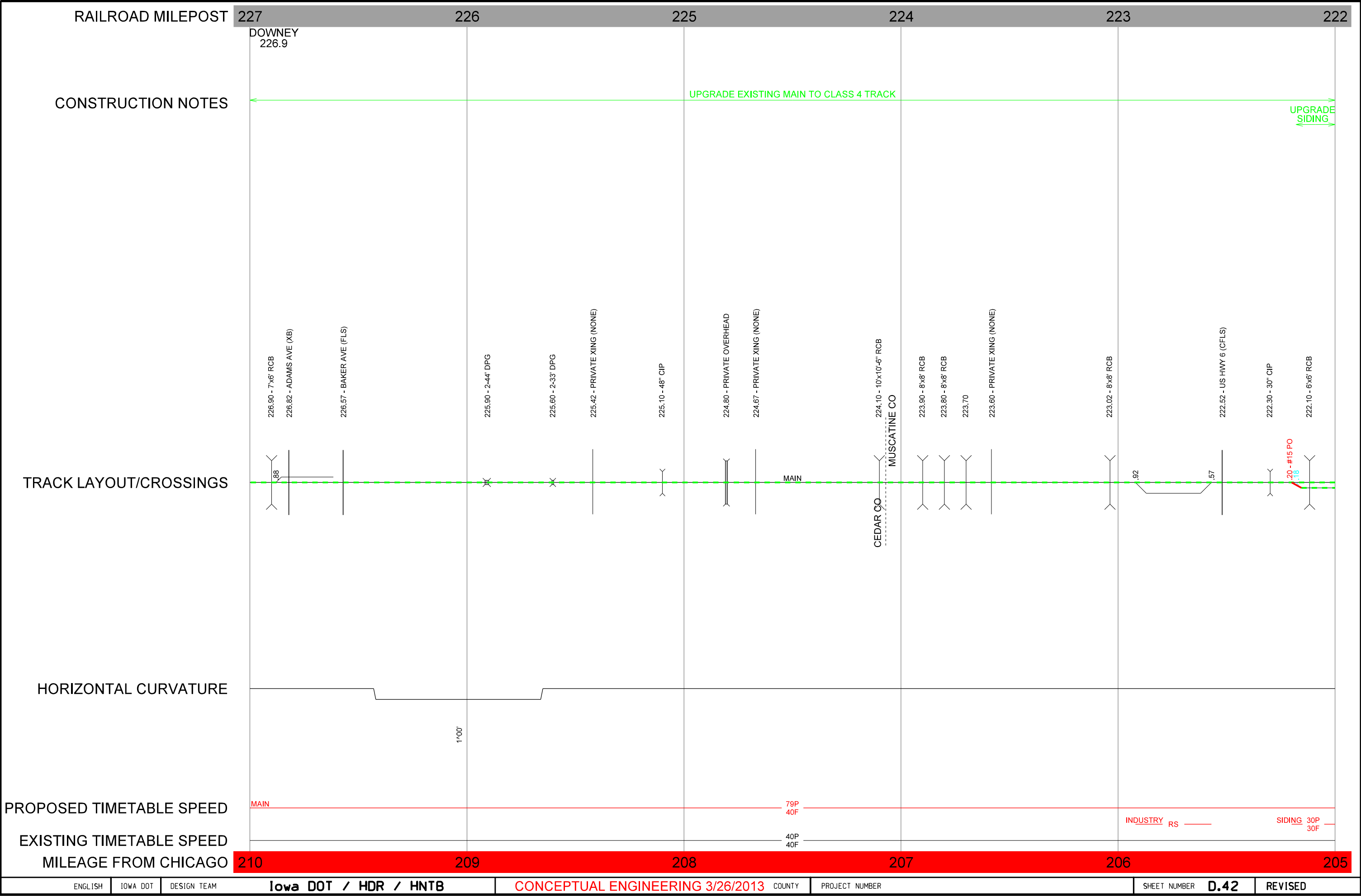


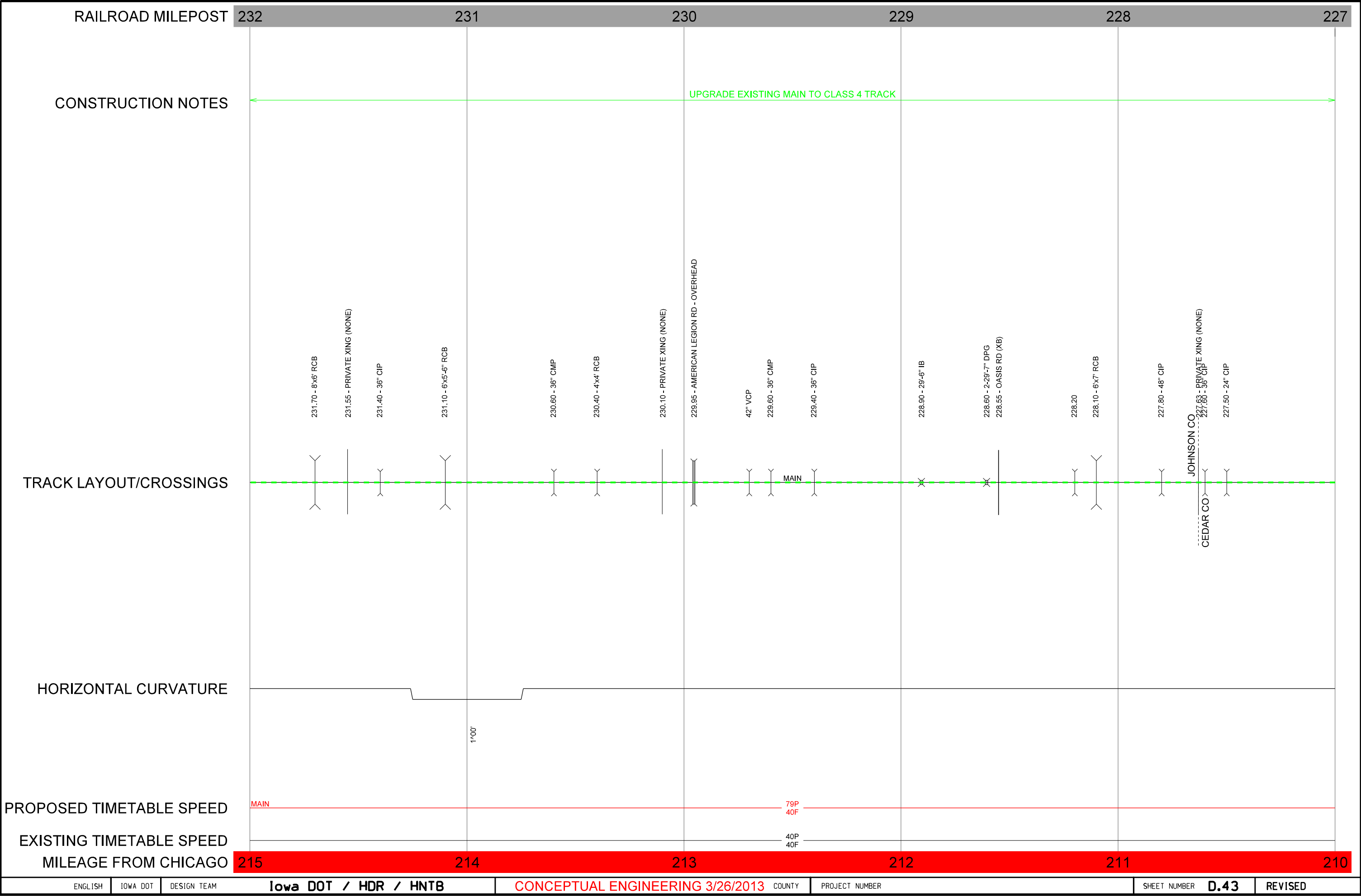


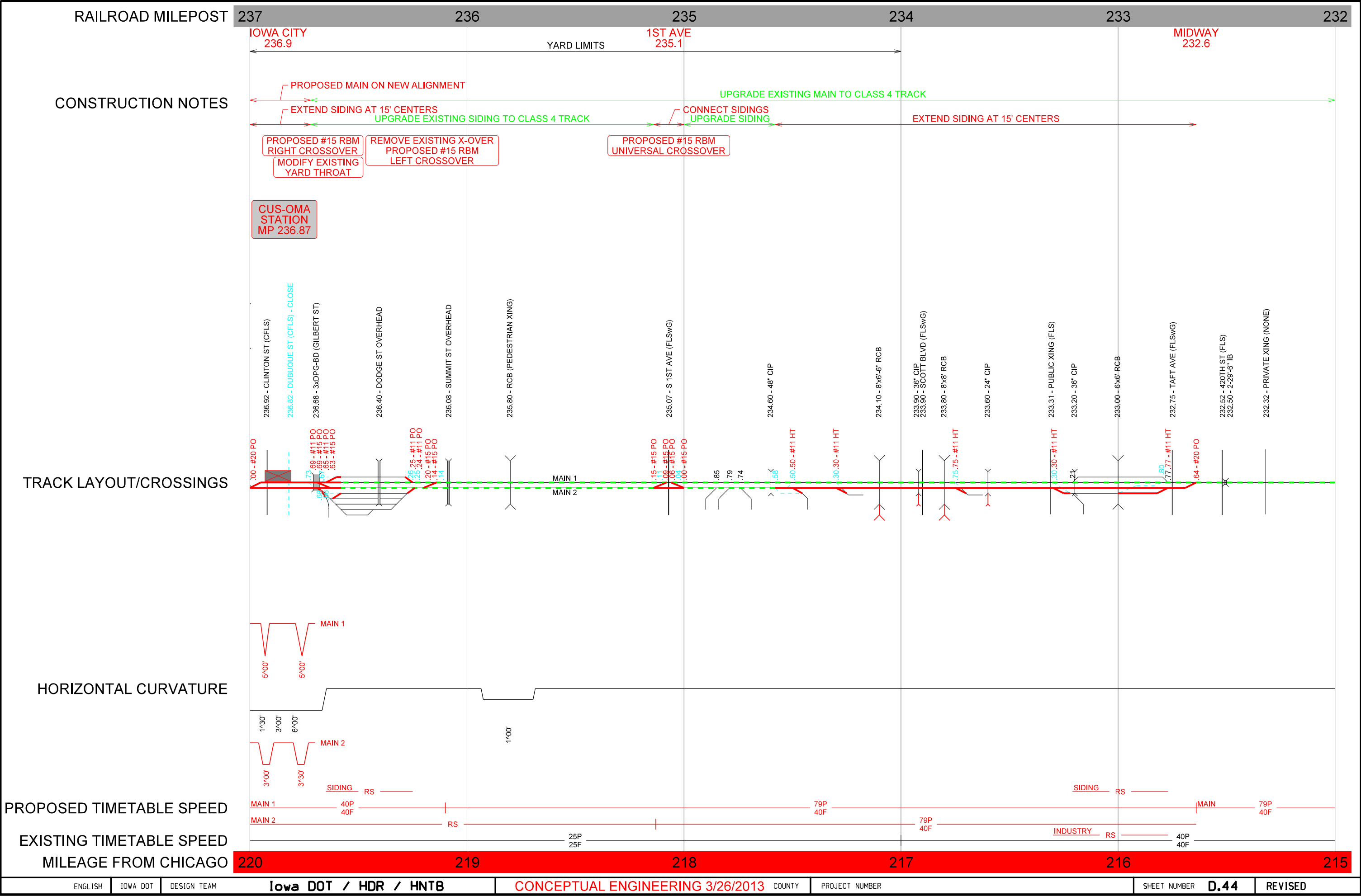












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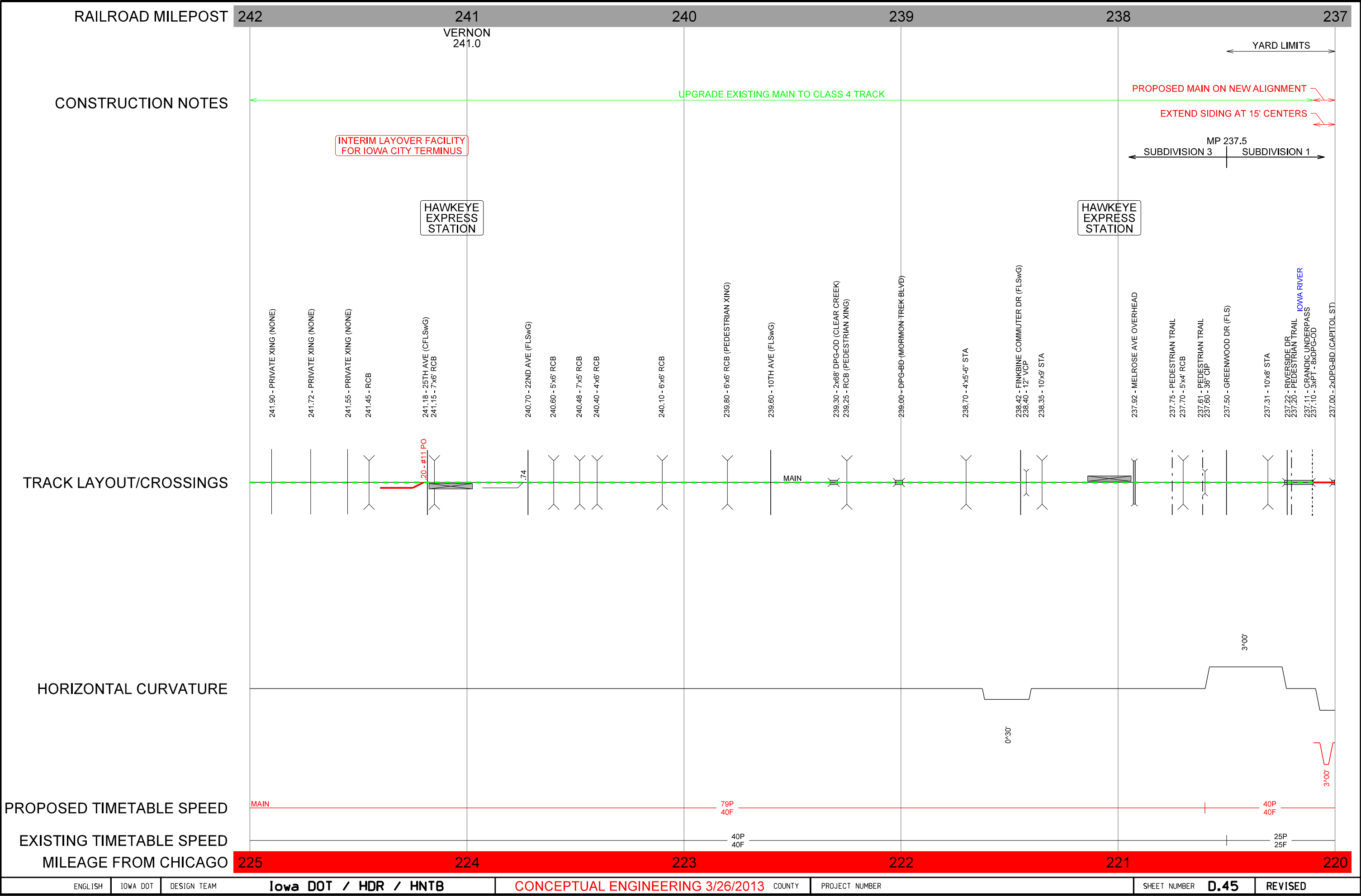
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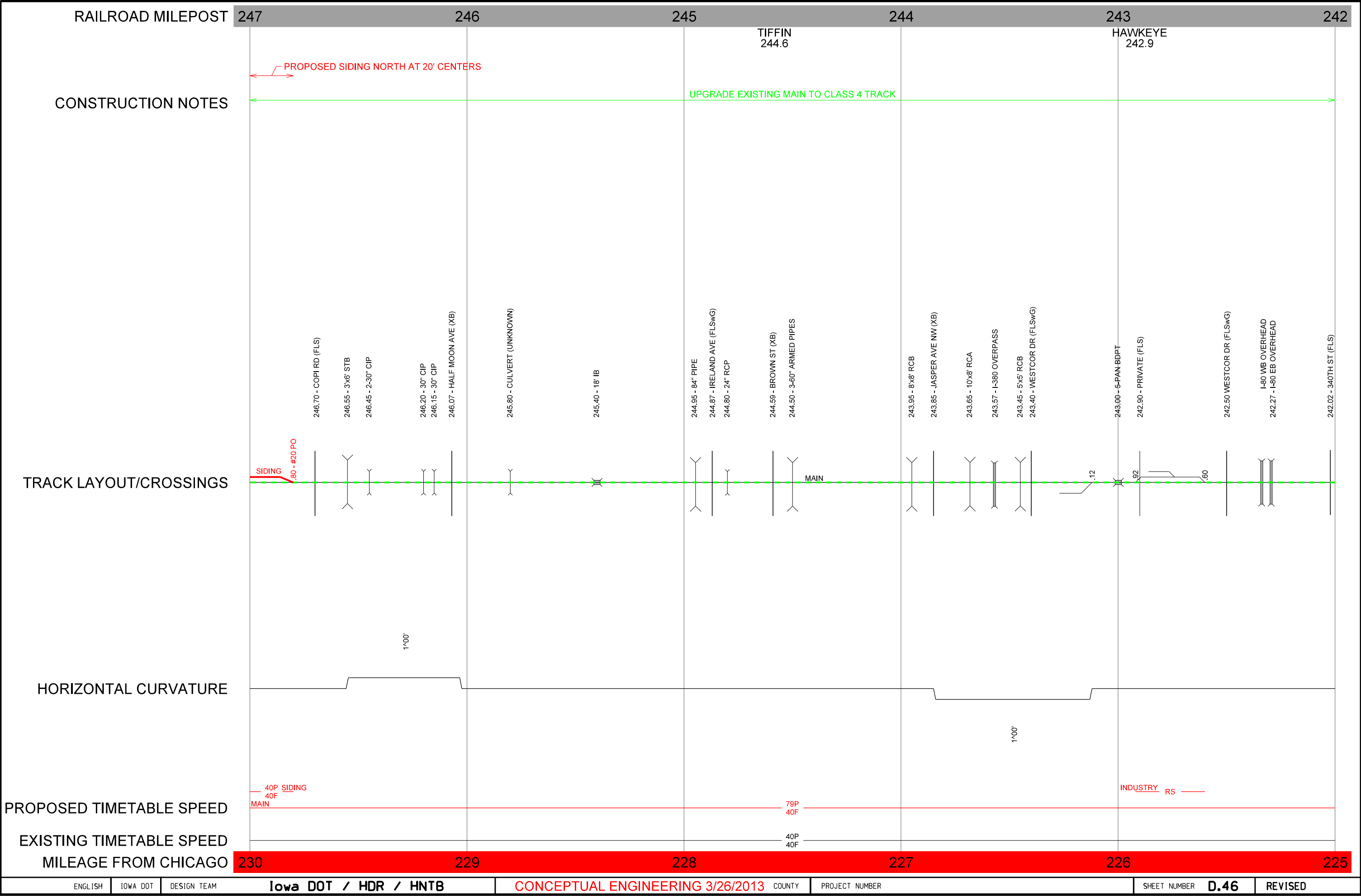
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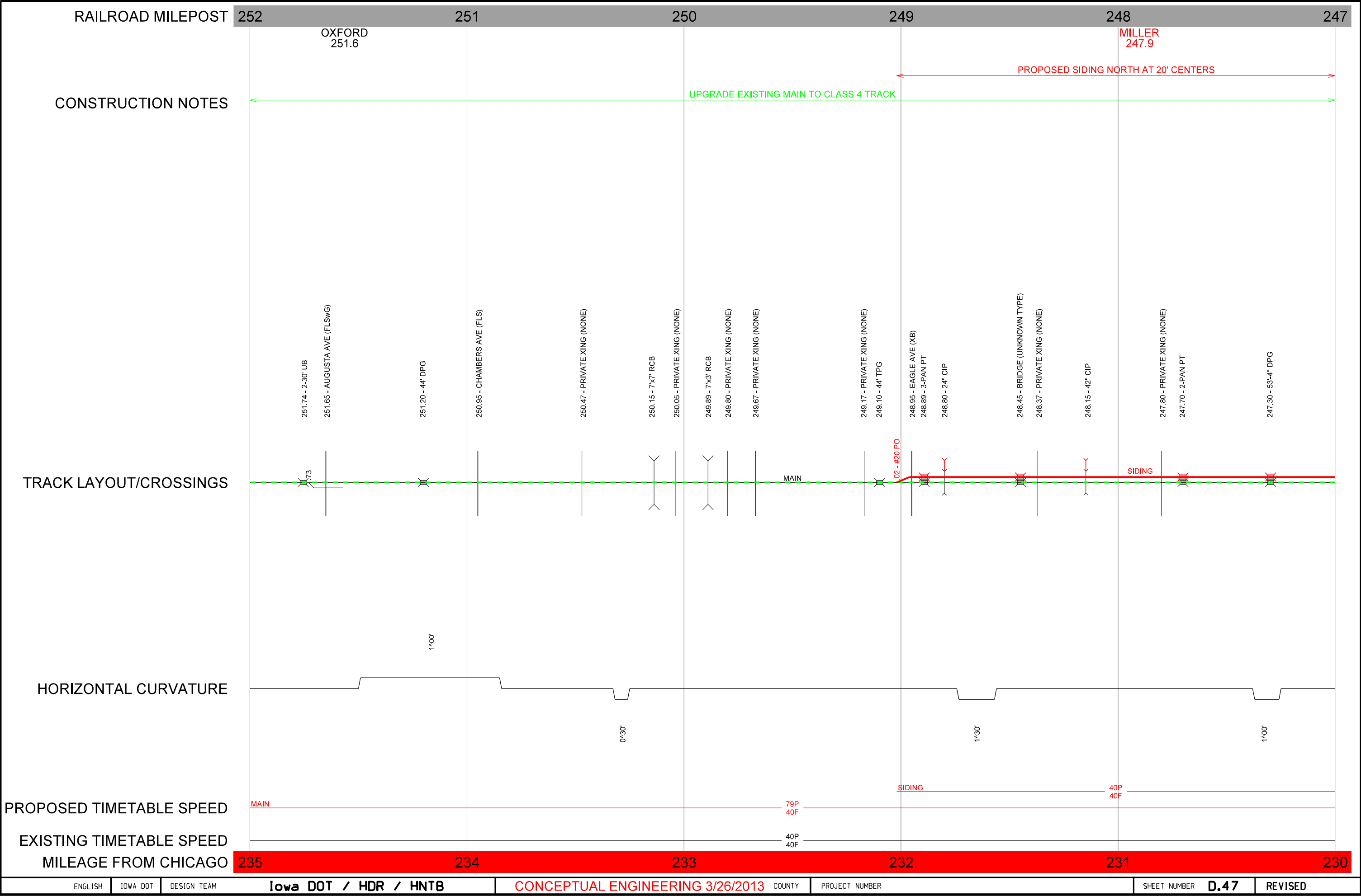
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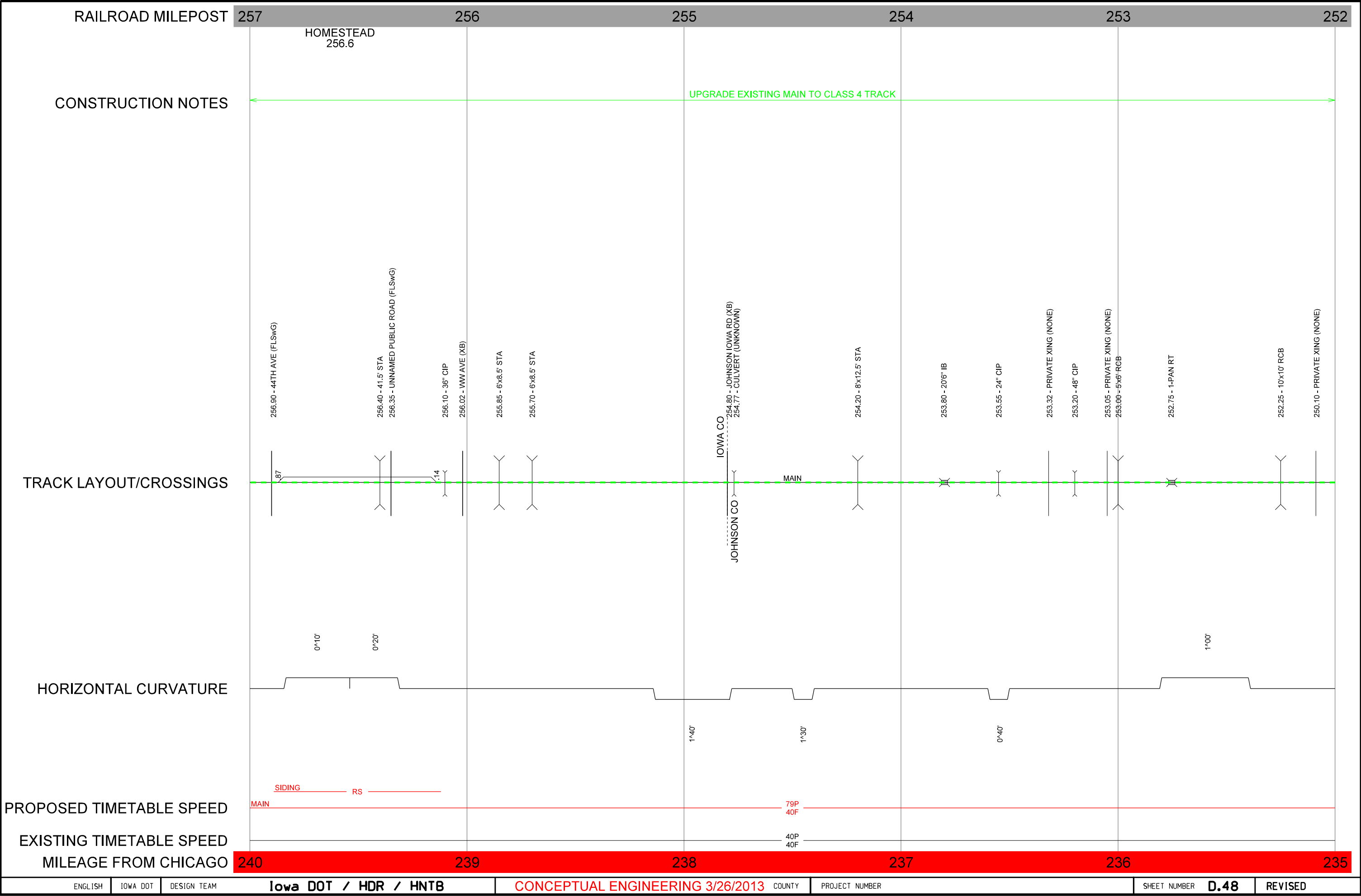
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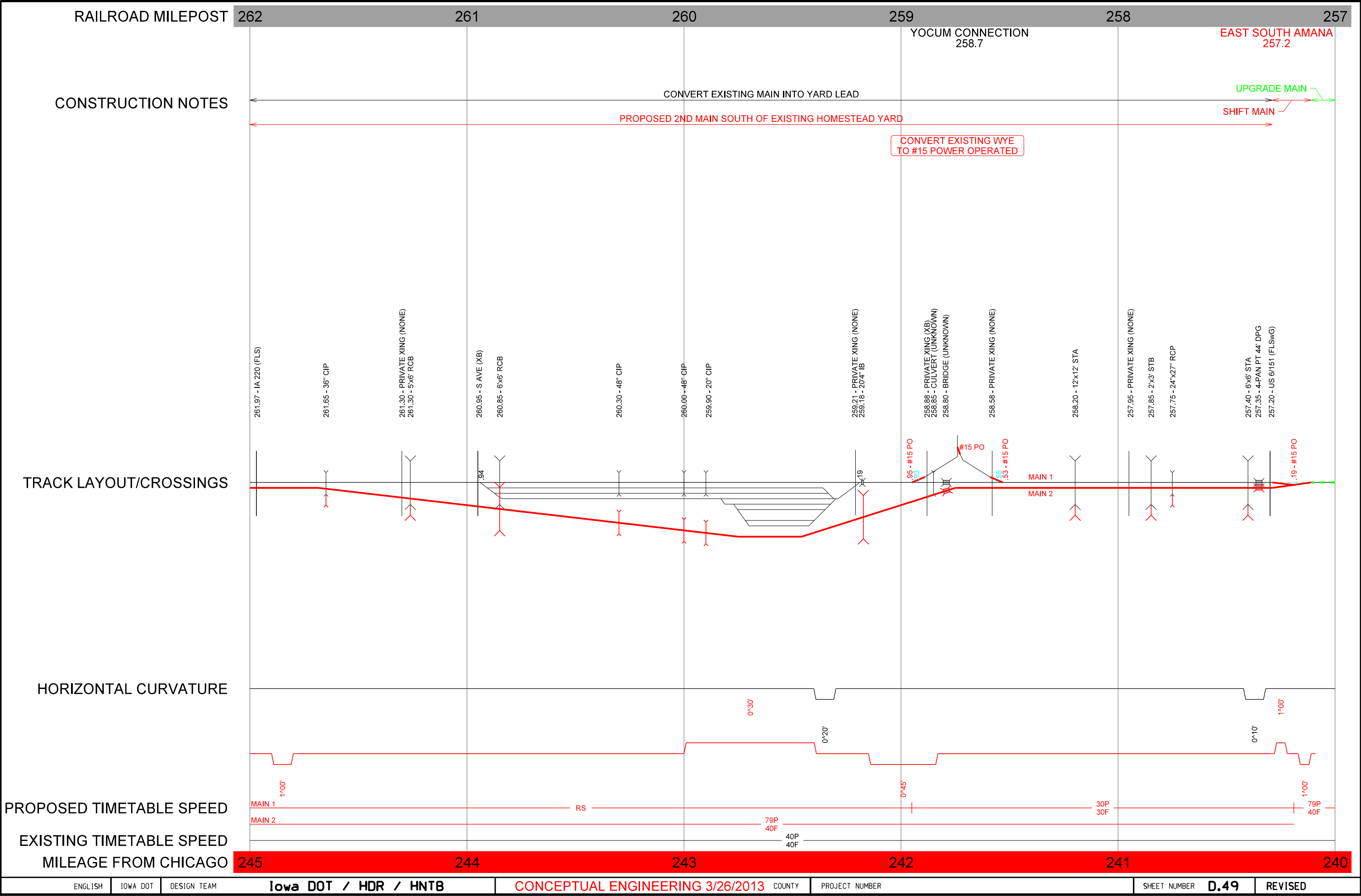
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YOCUM CONNECTION
258.7

EAST SOUTH AMANA
257.2

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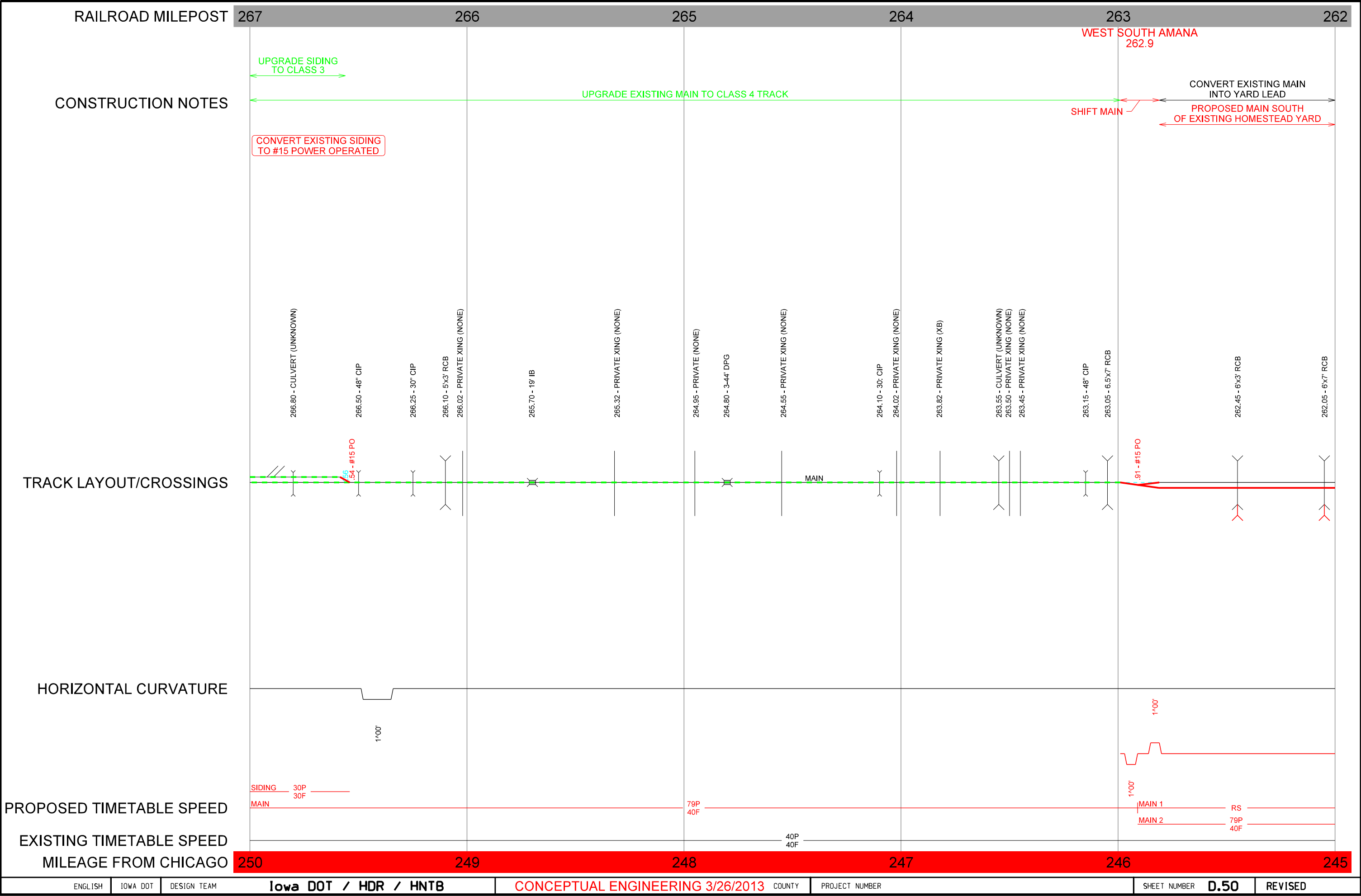
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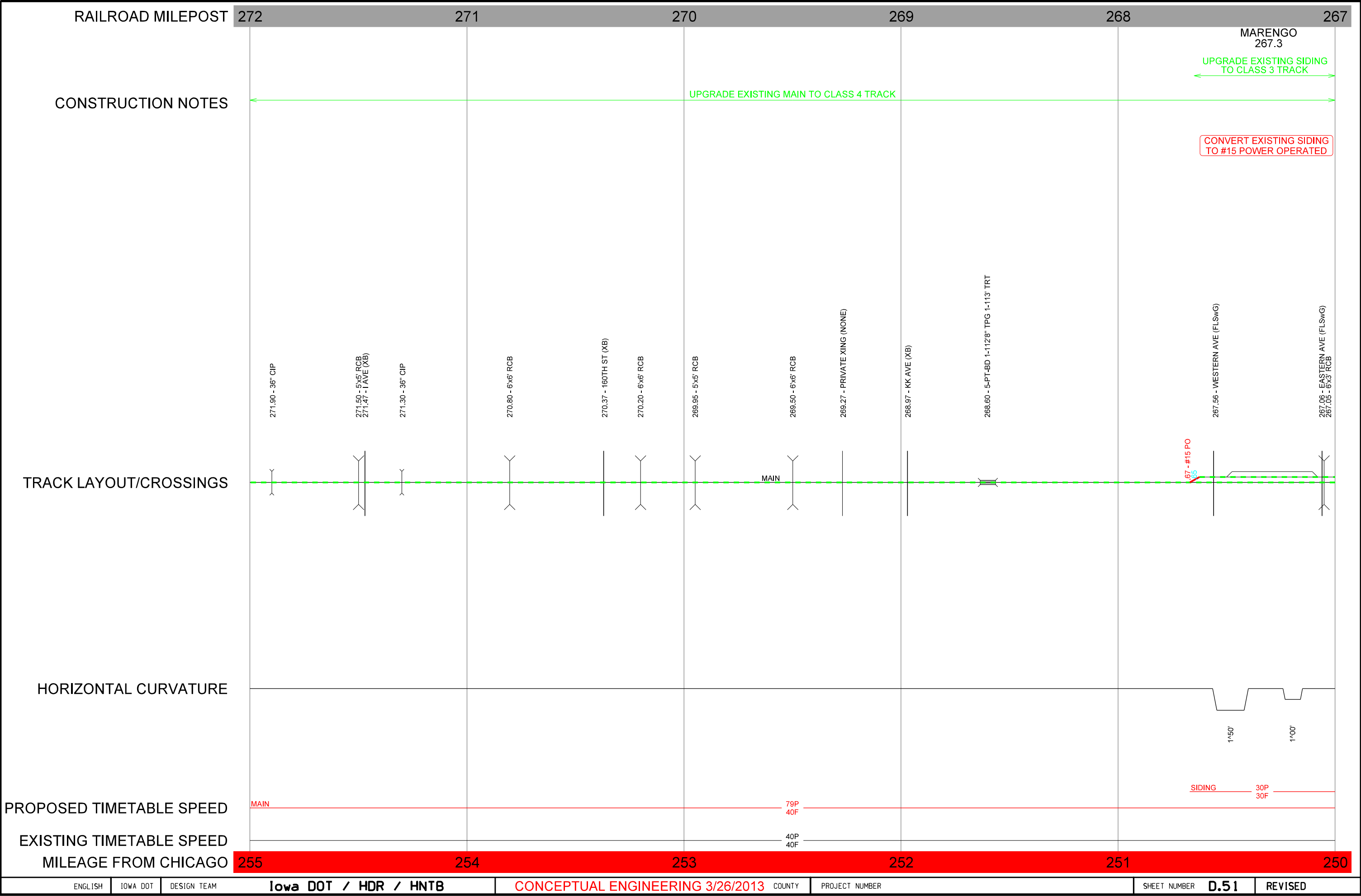
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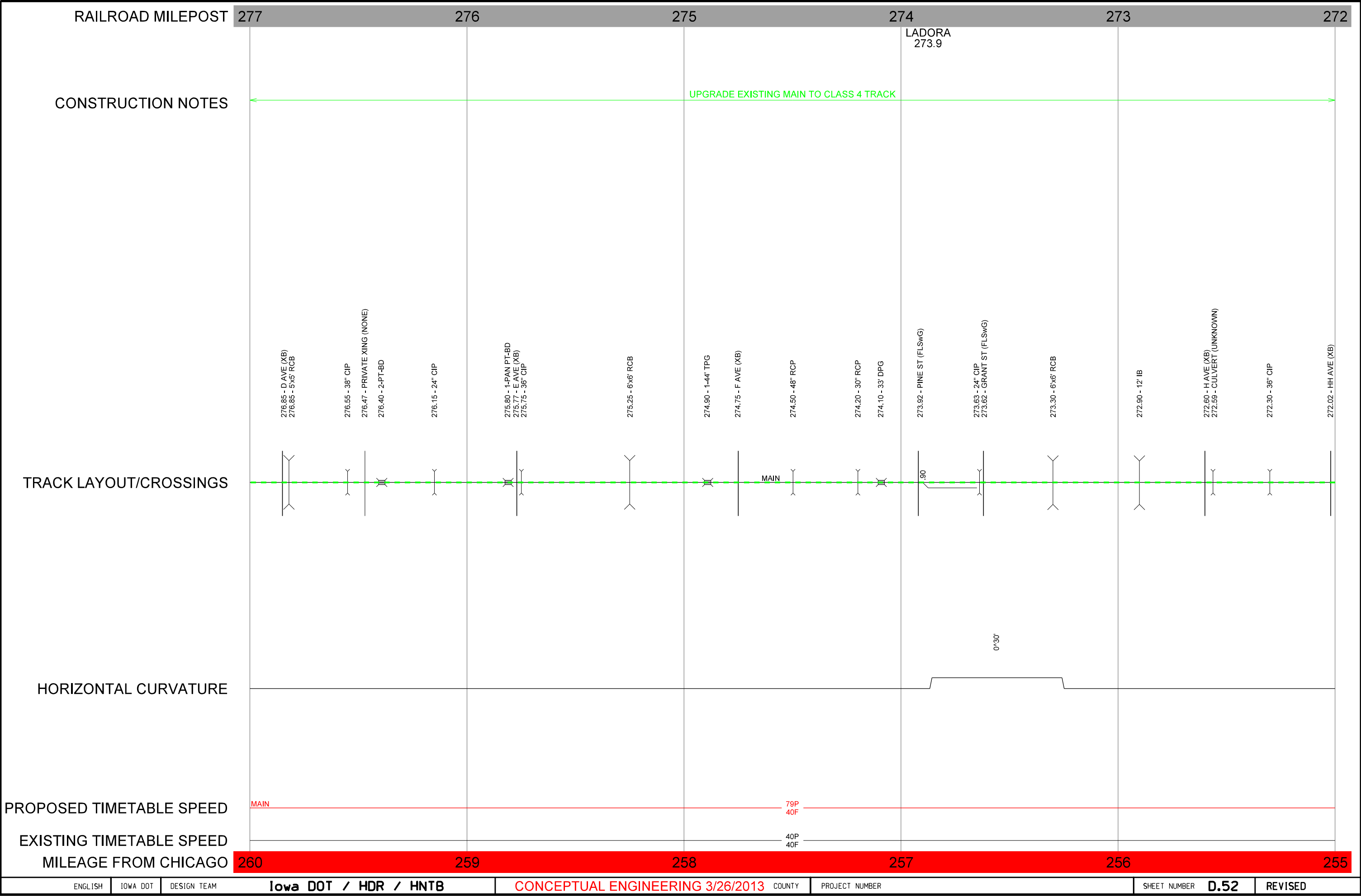
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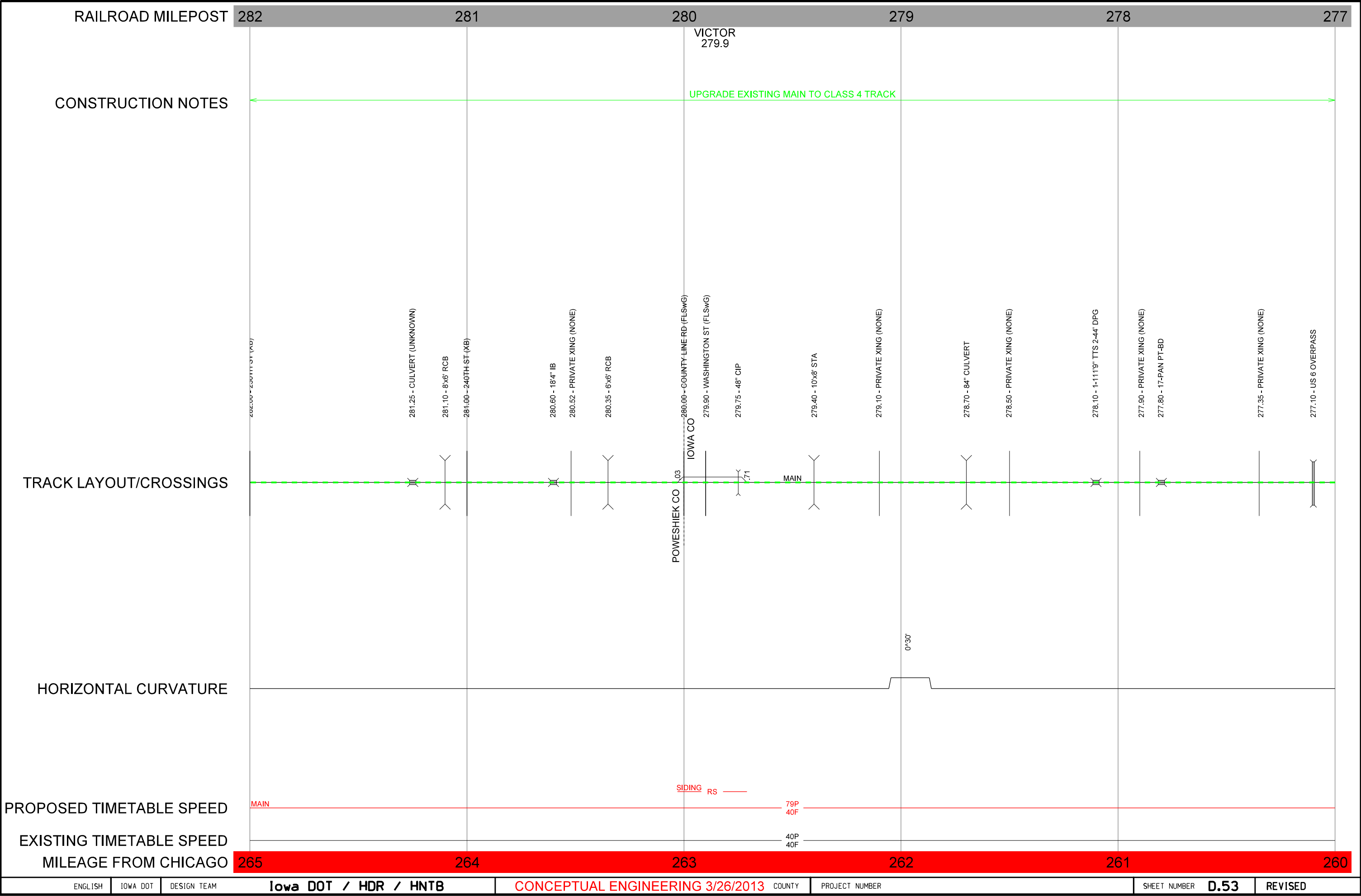
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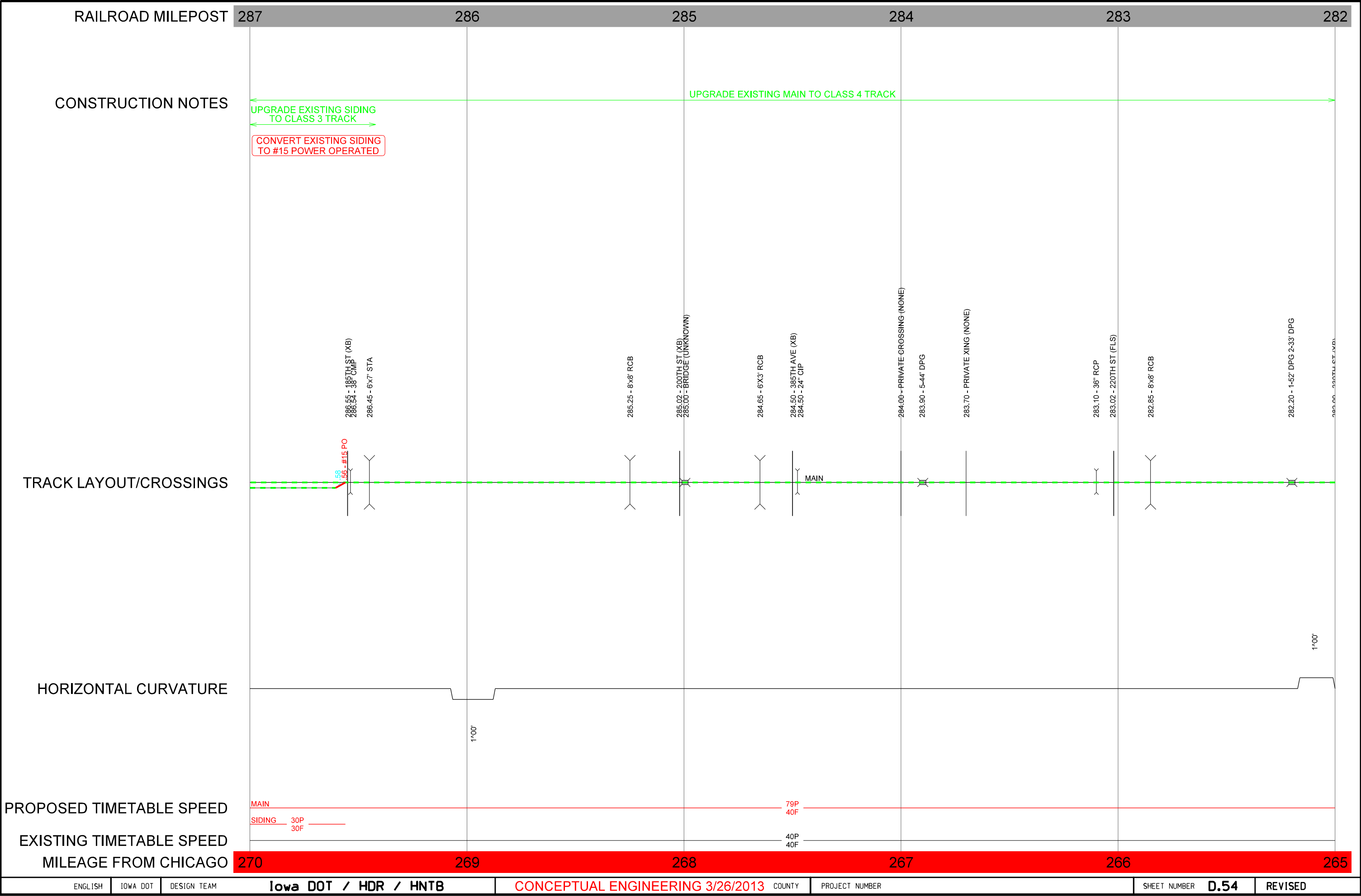
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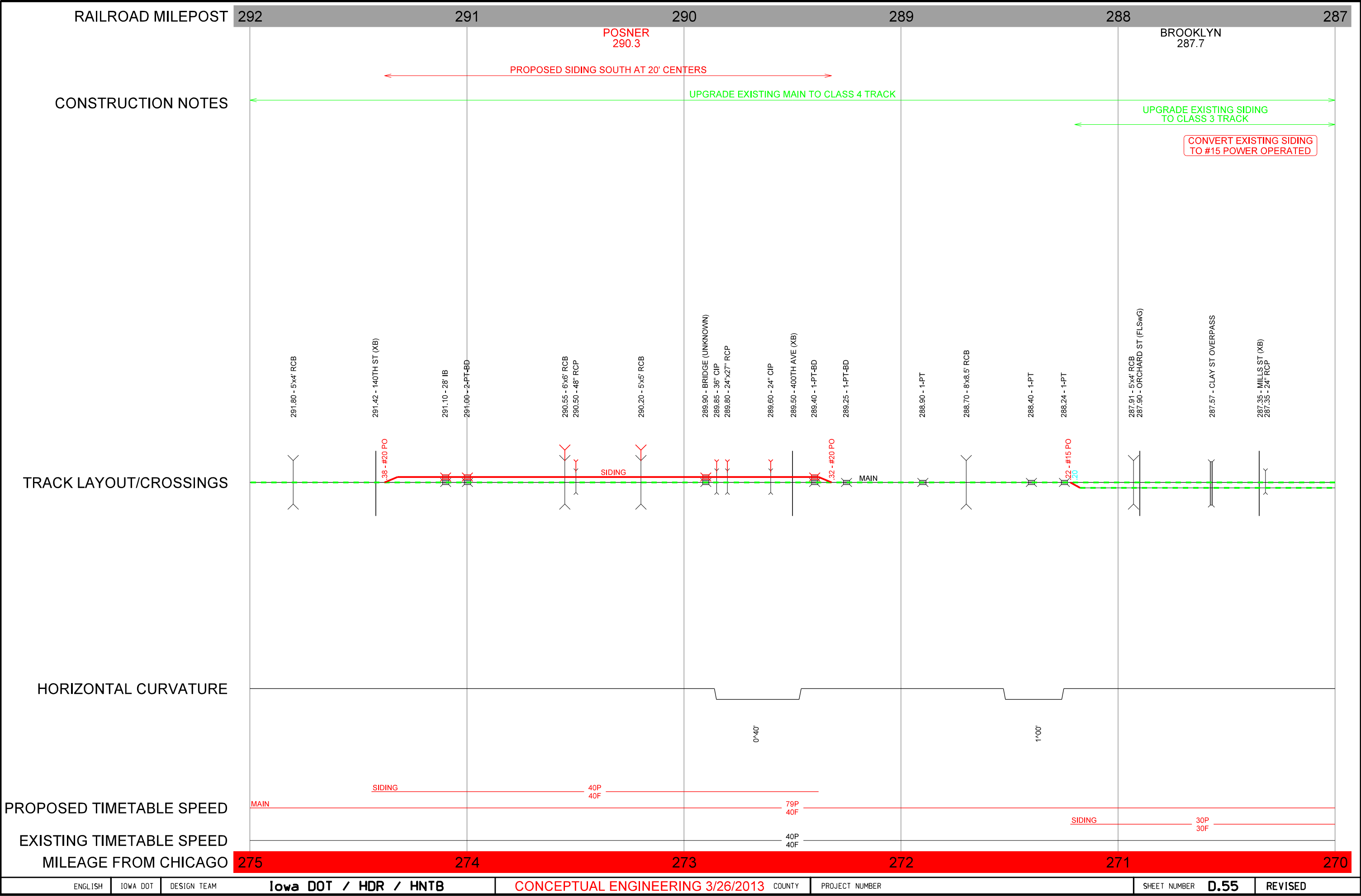
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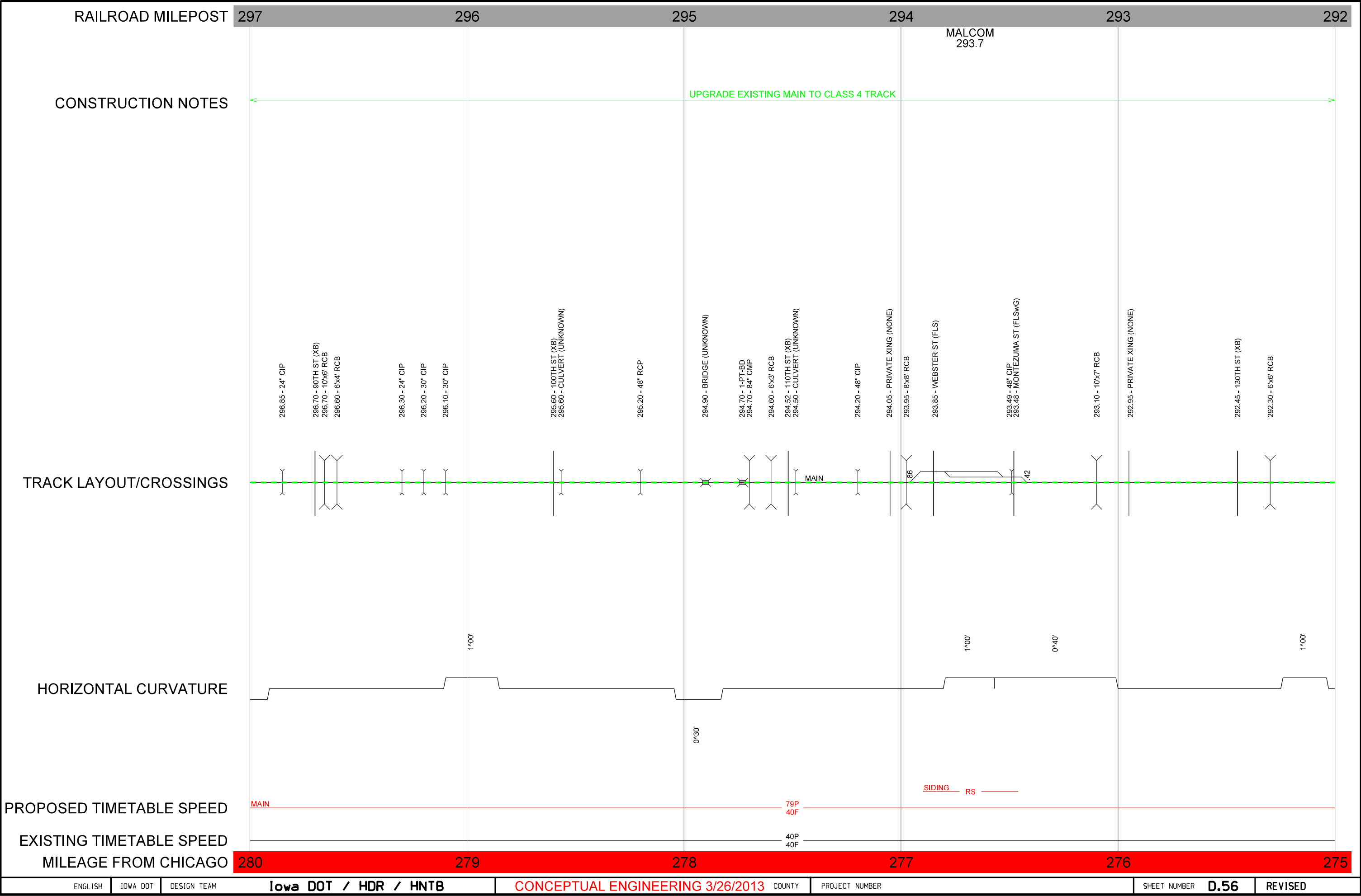
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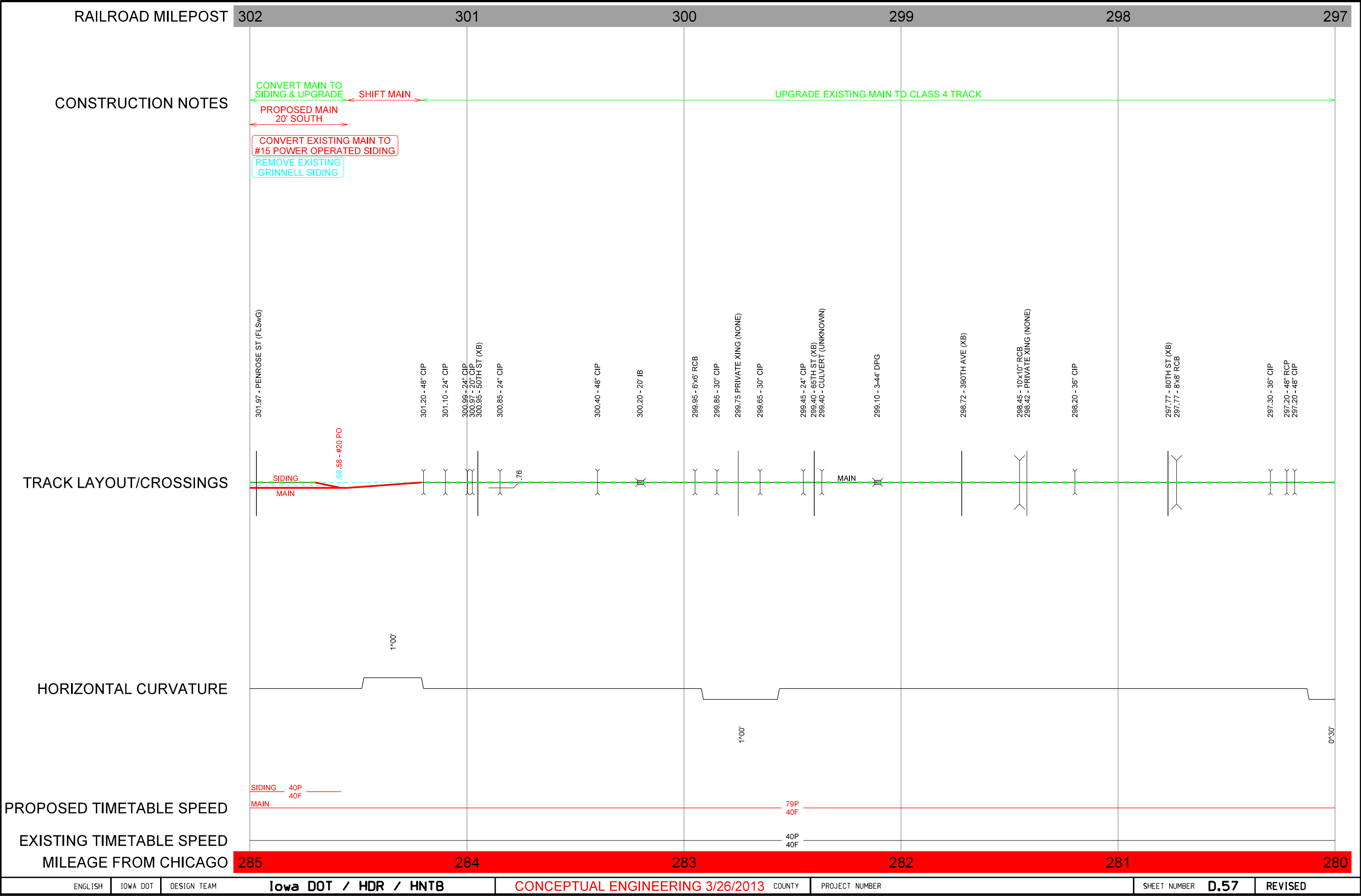
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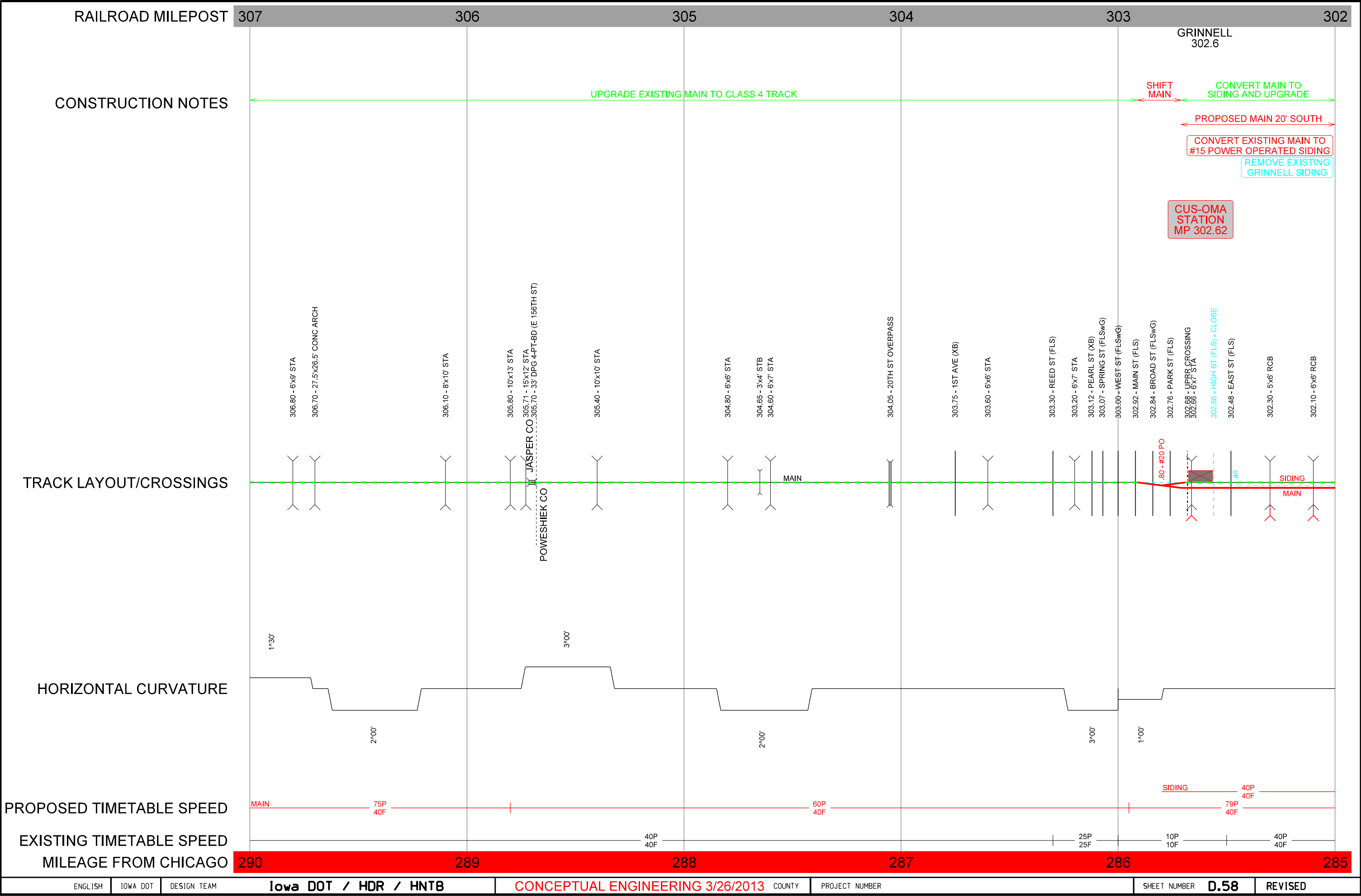
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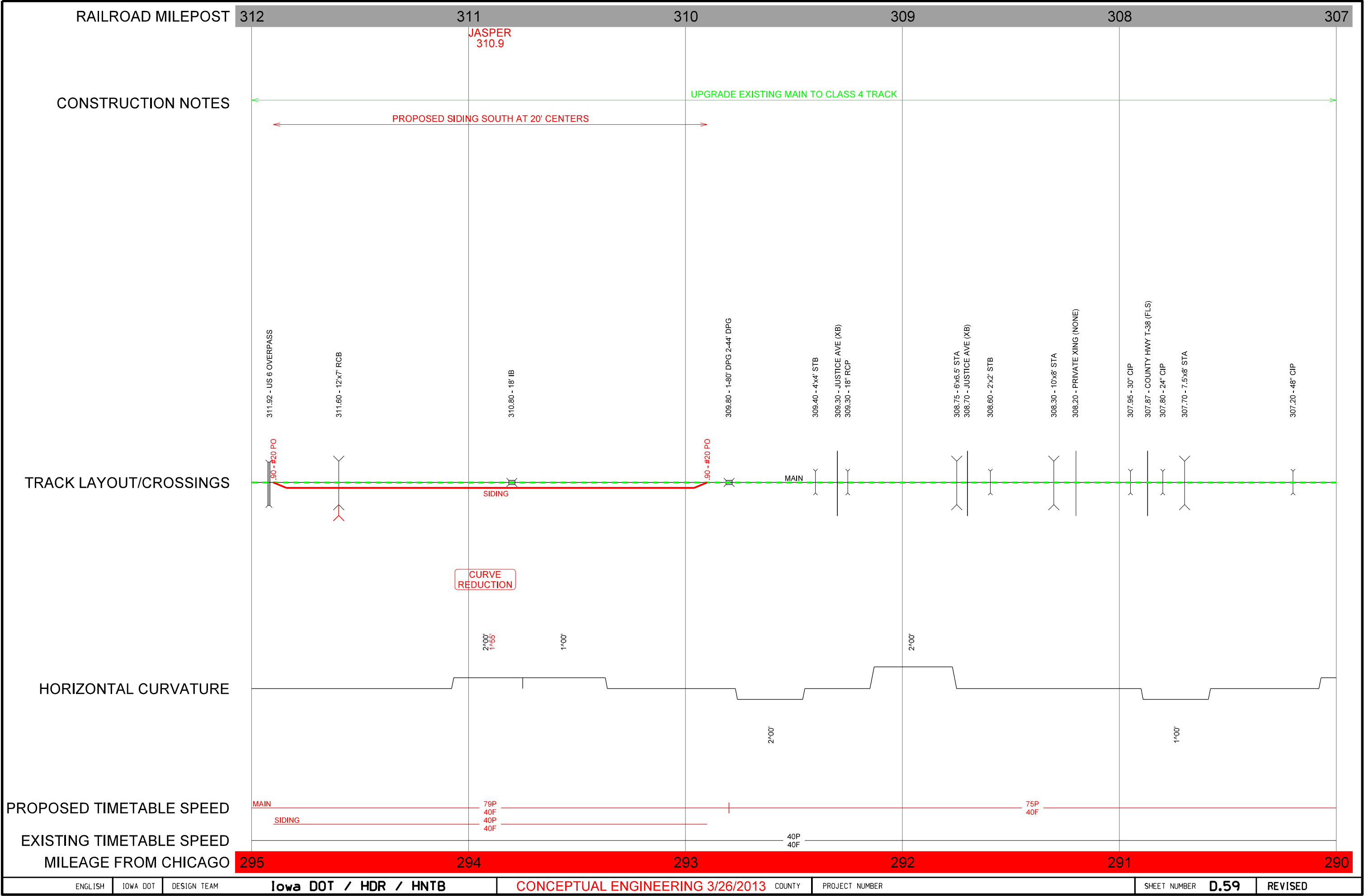
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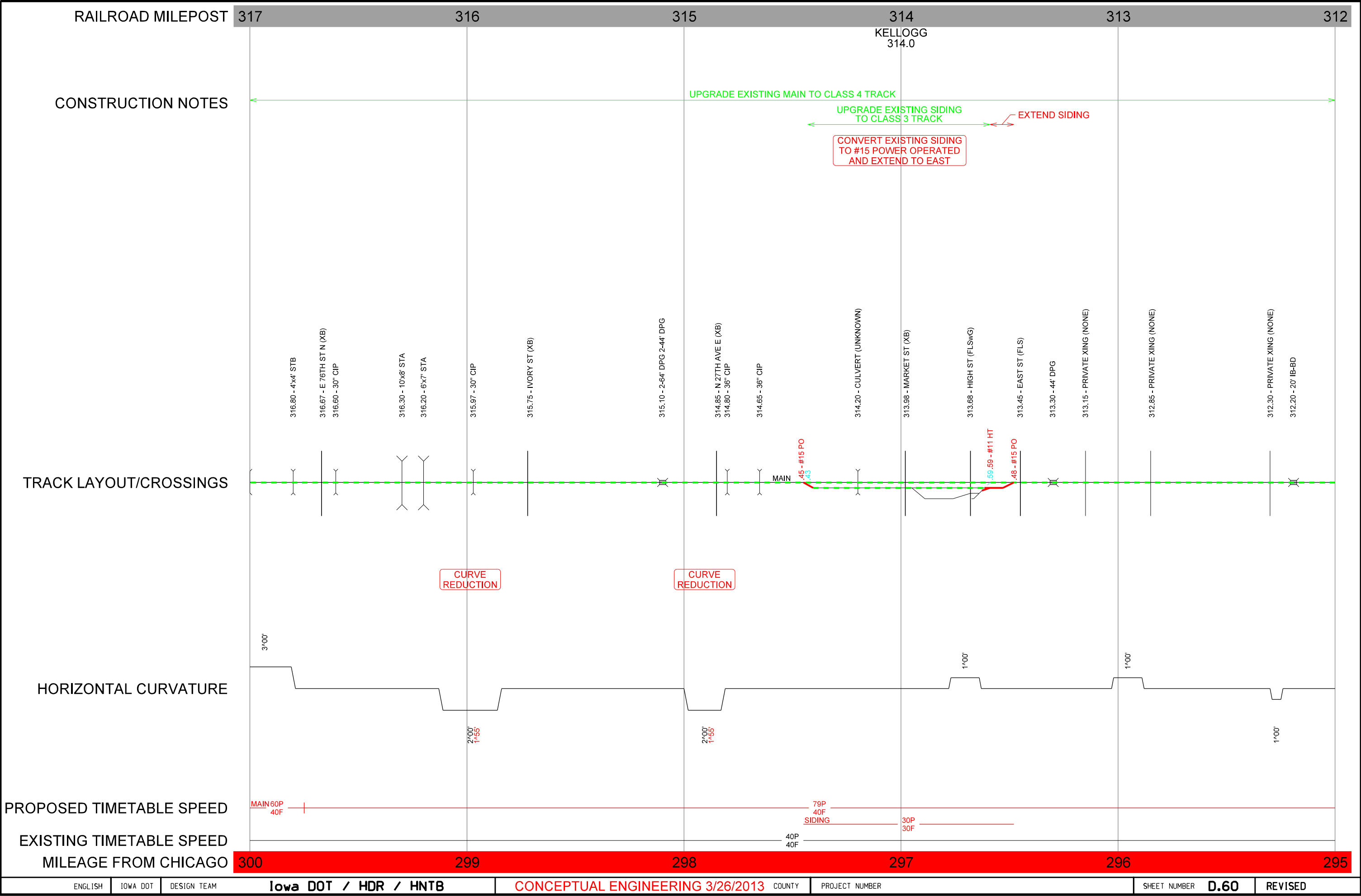
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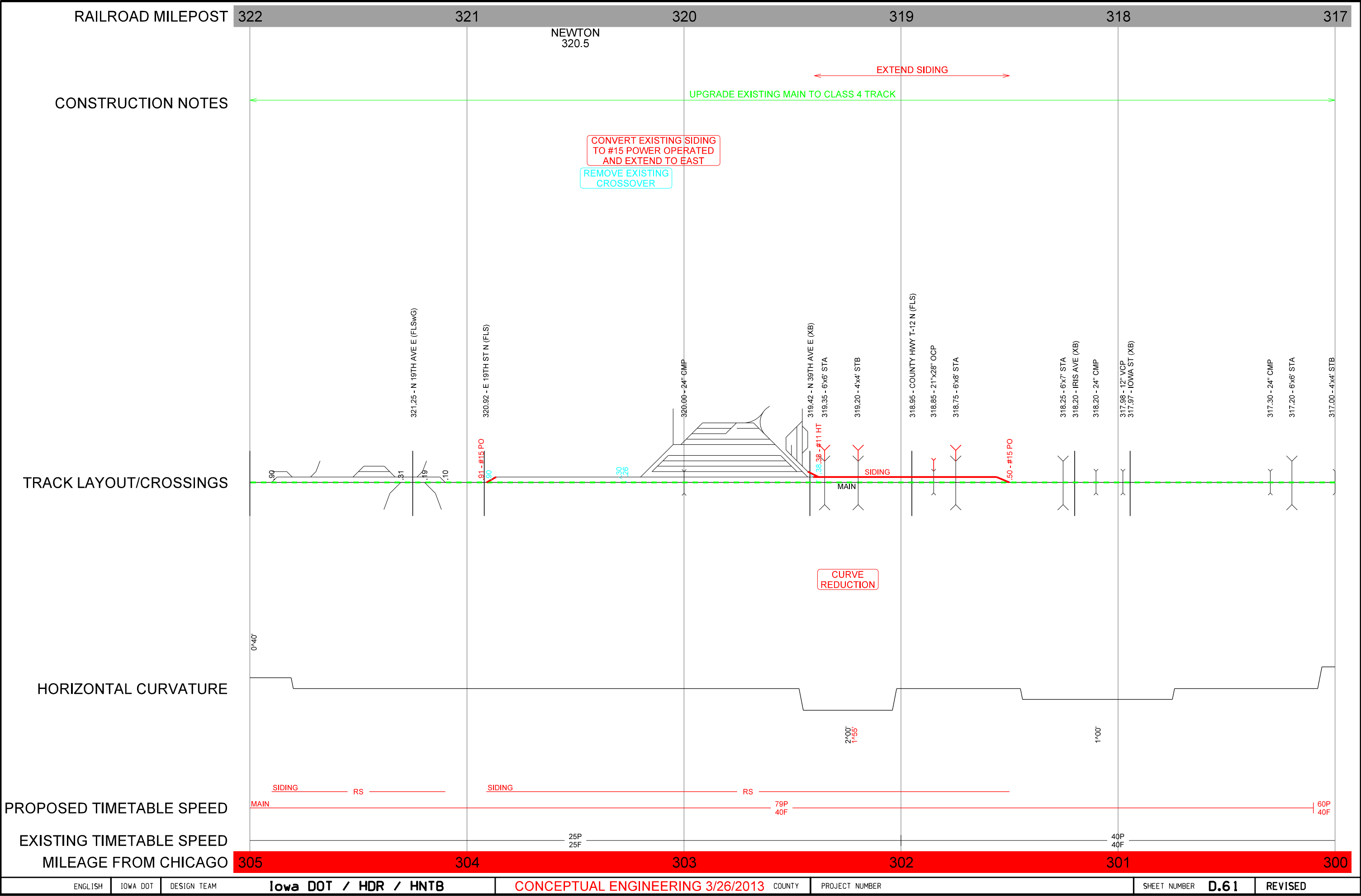
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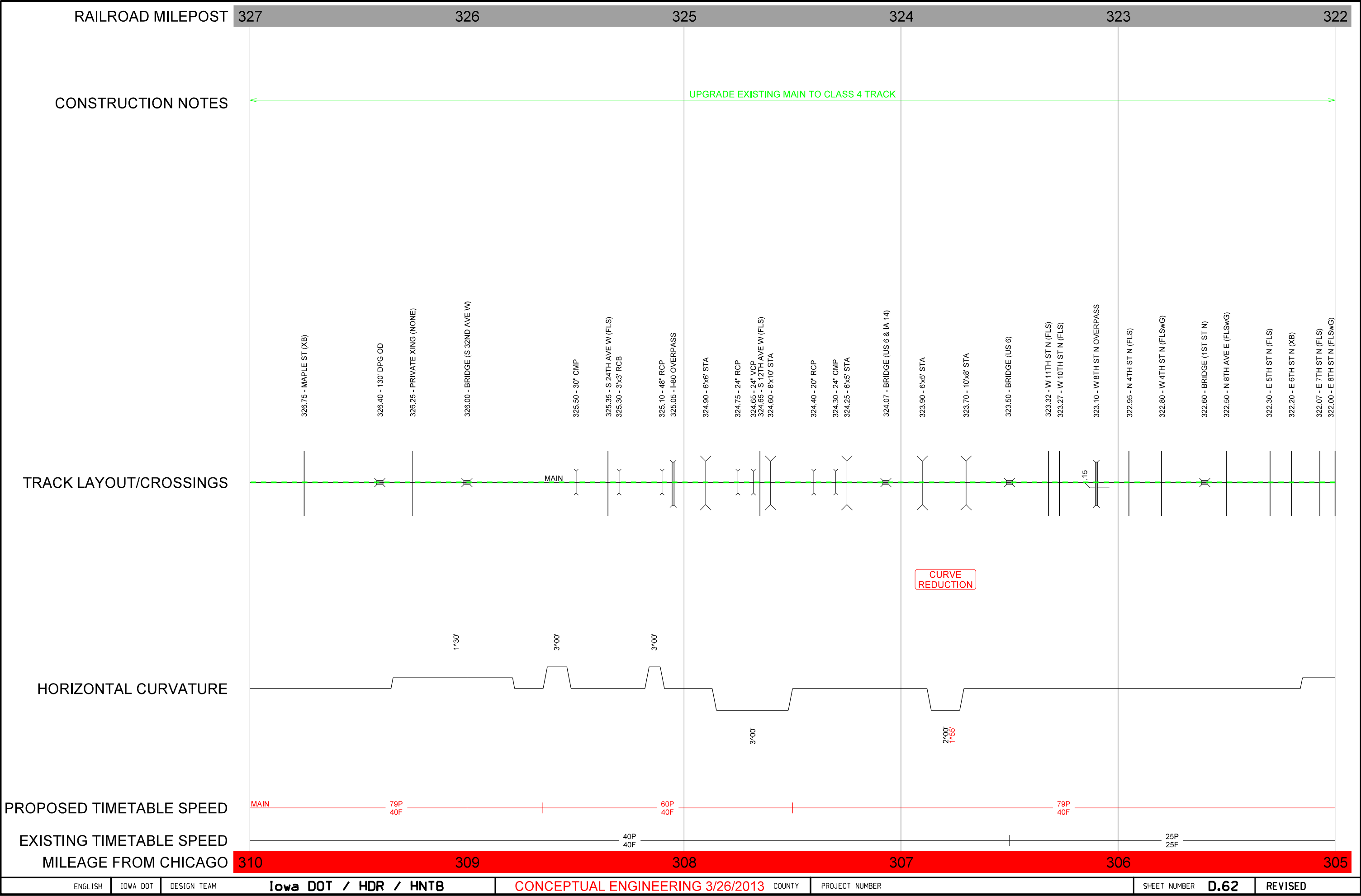
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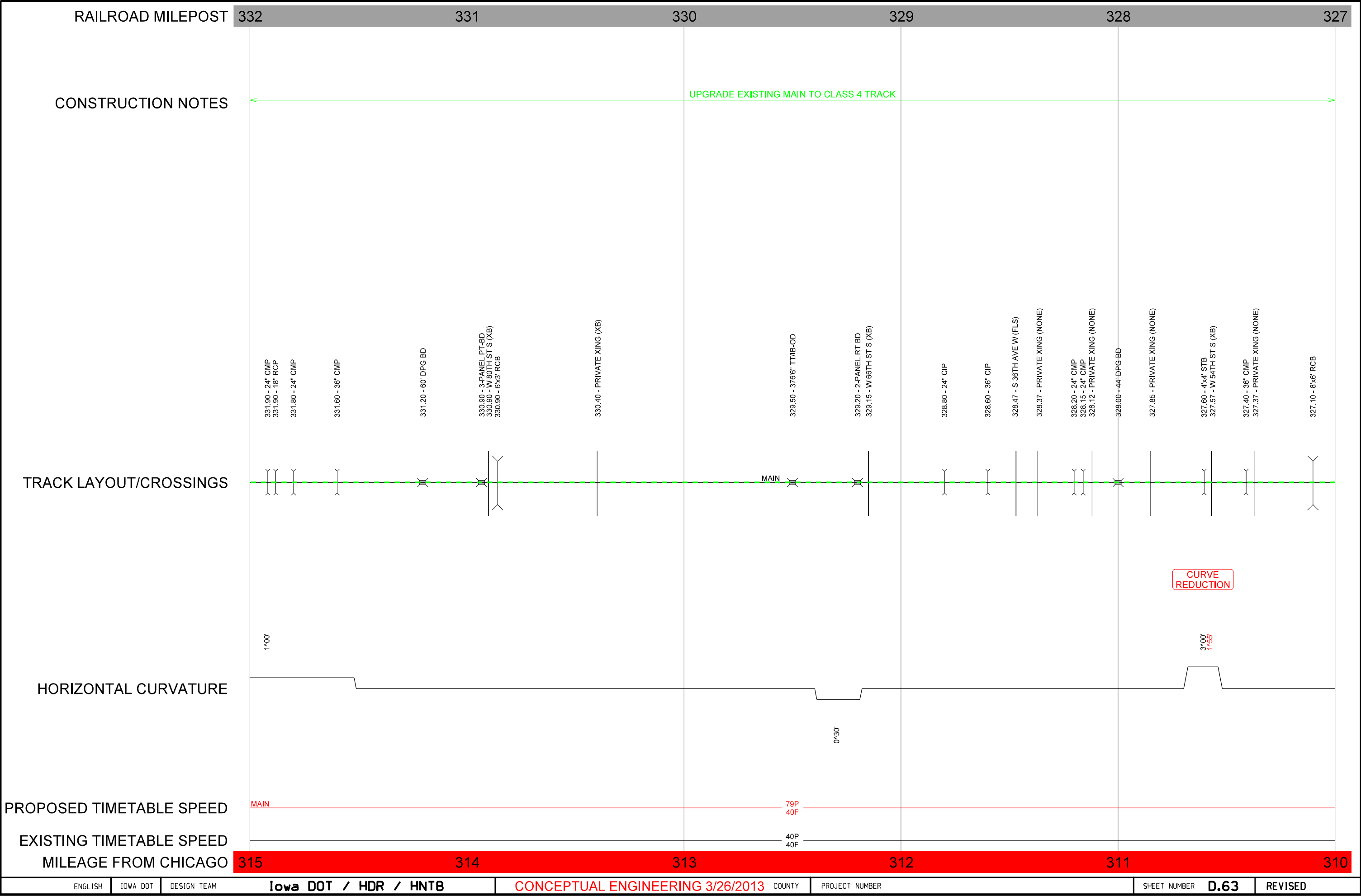
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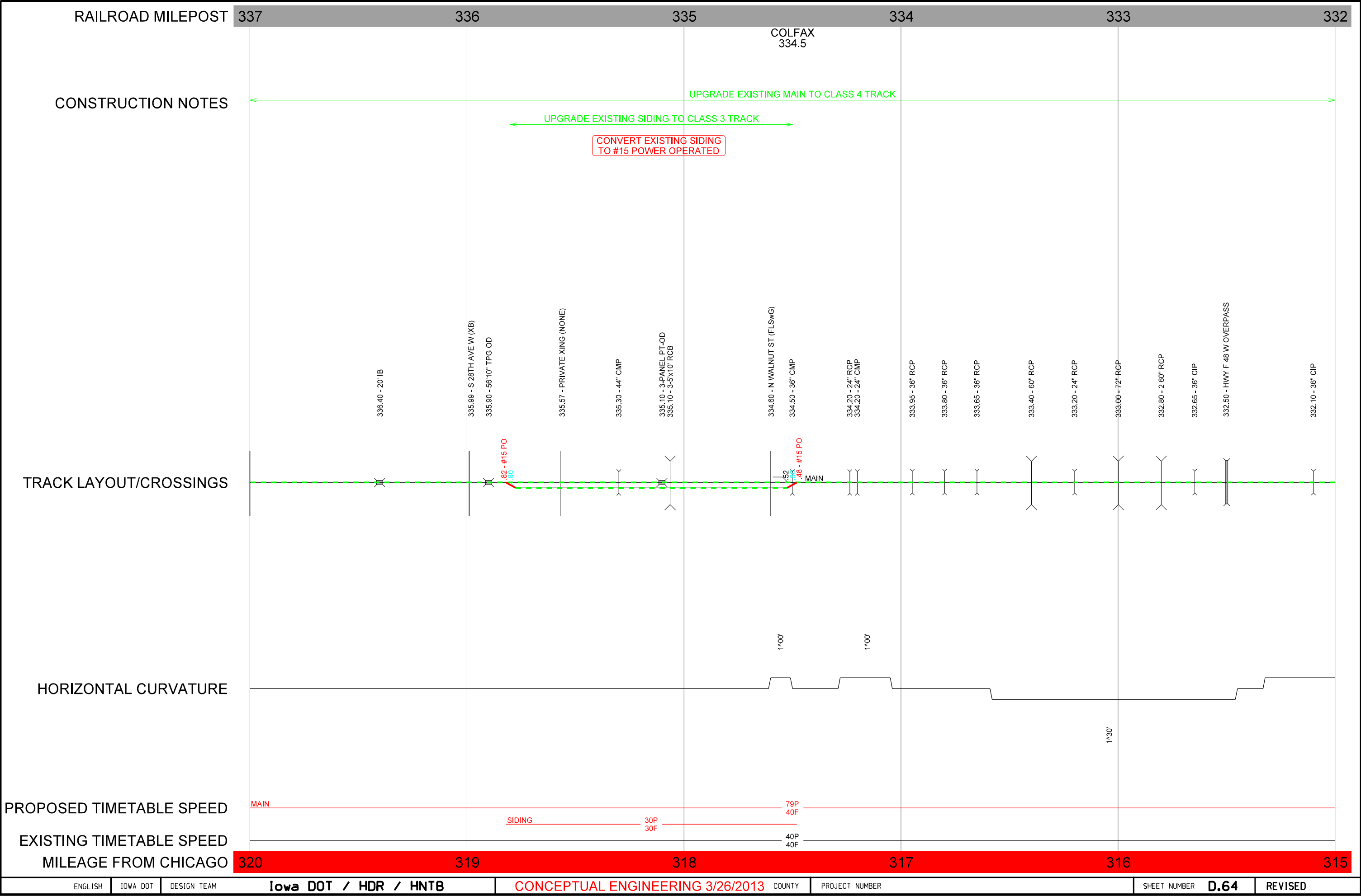
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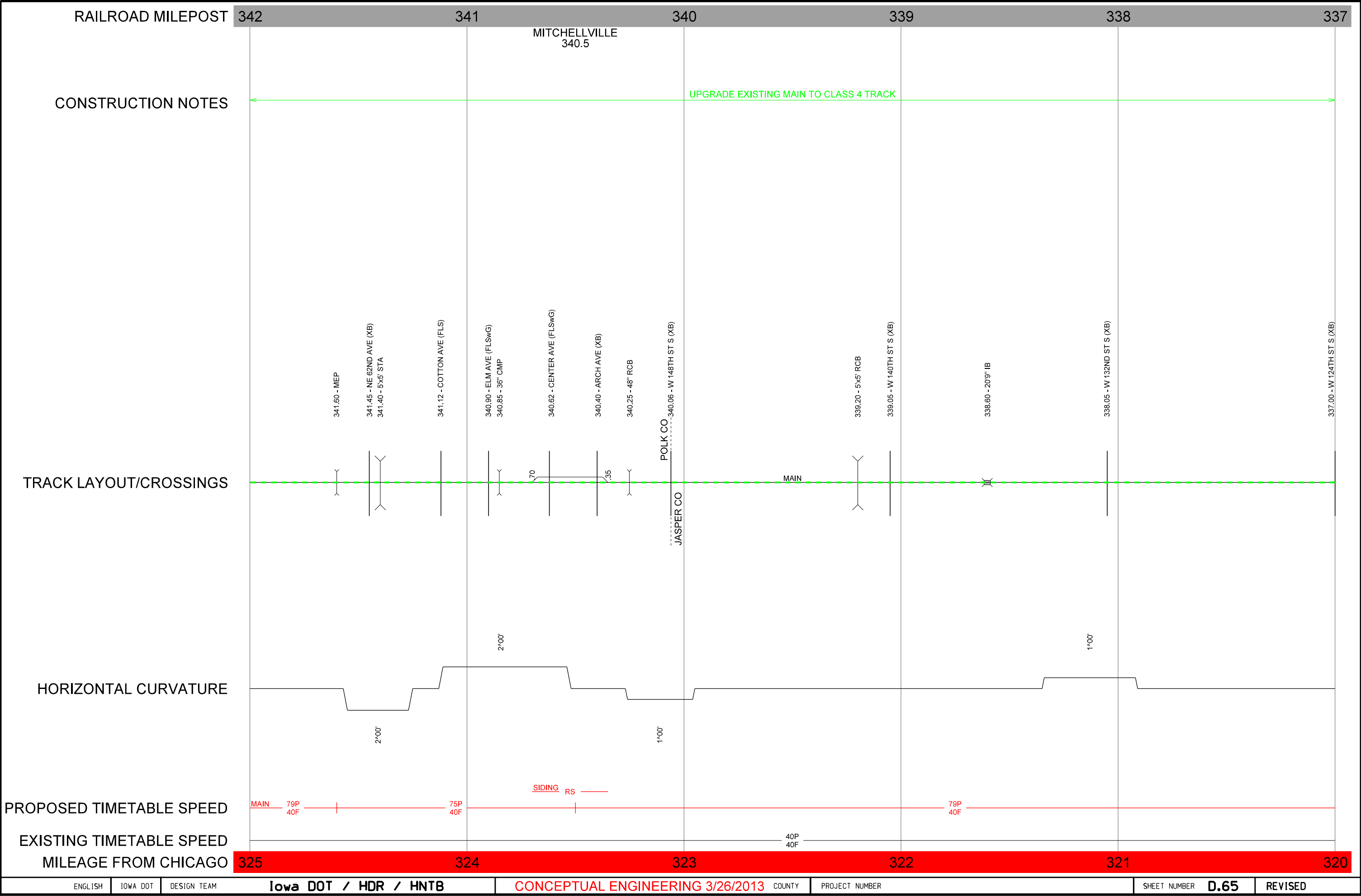


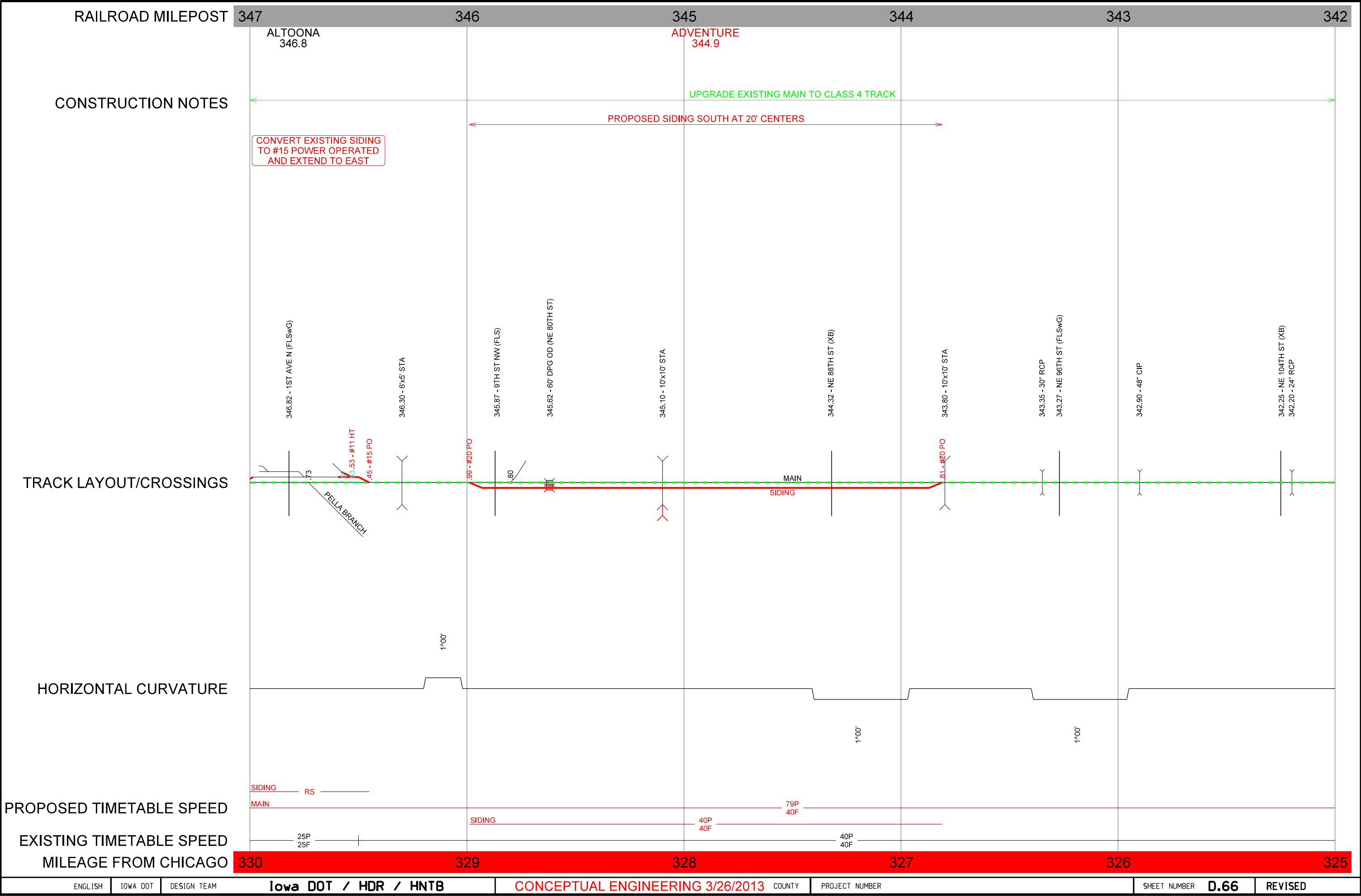


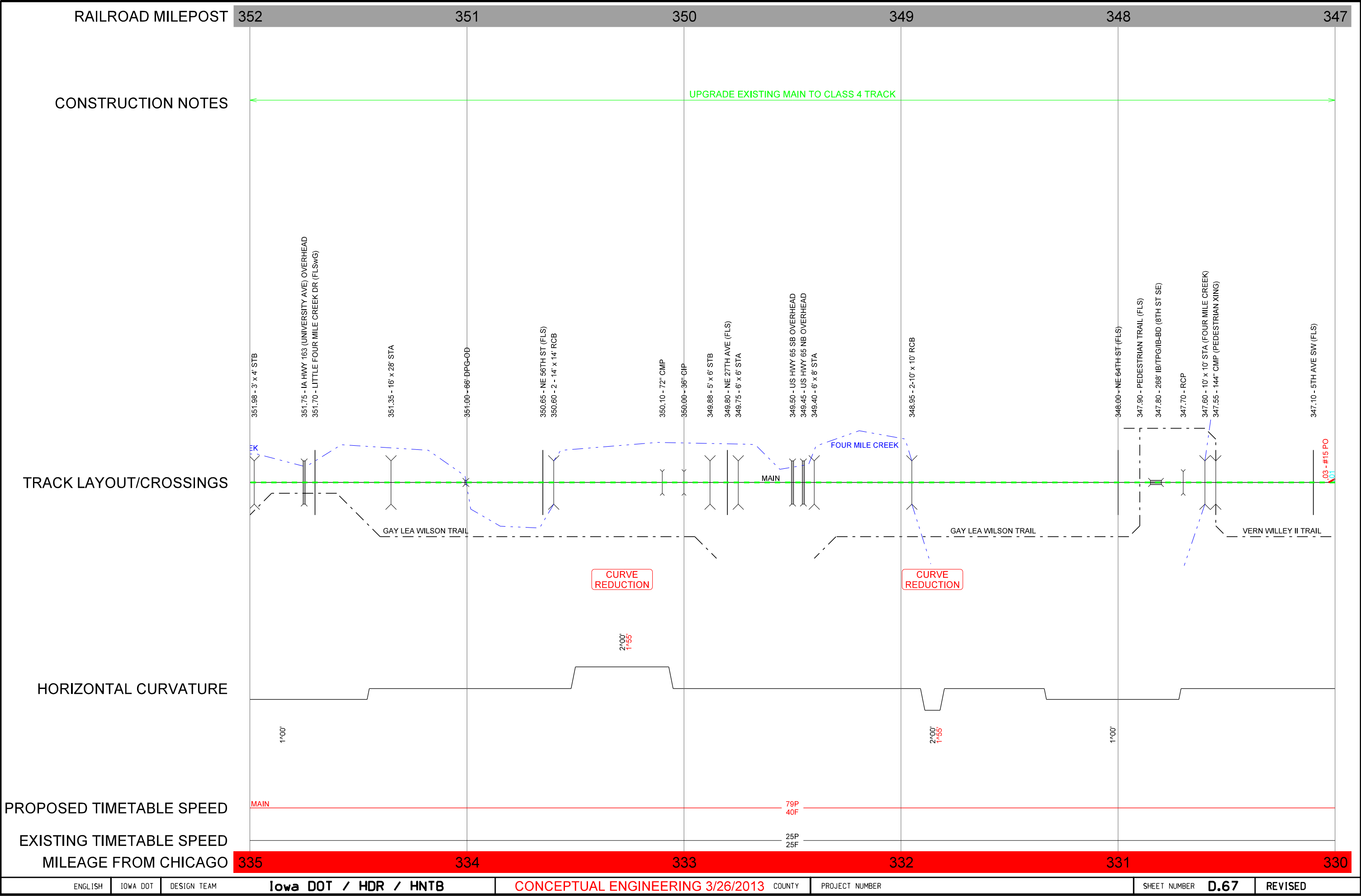


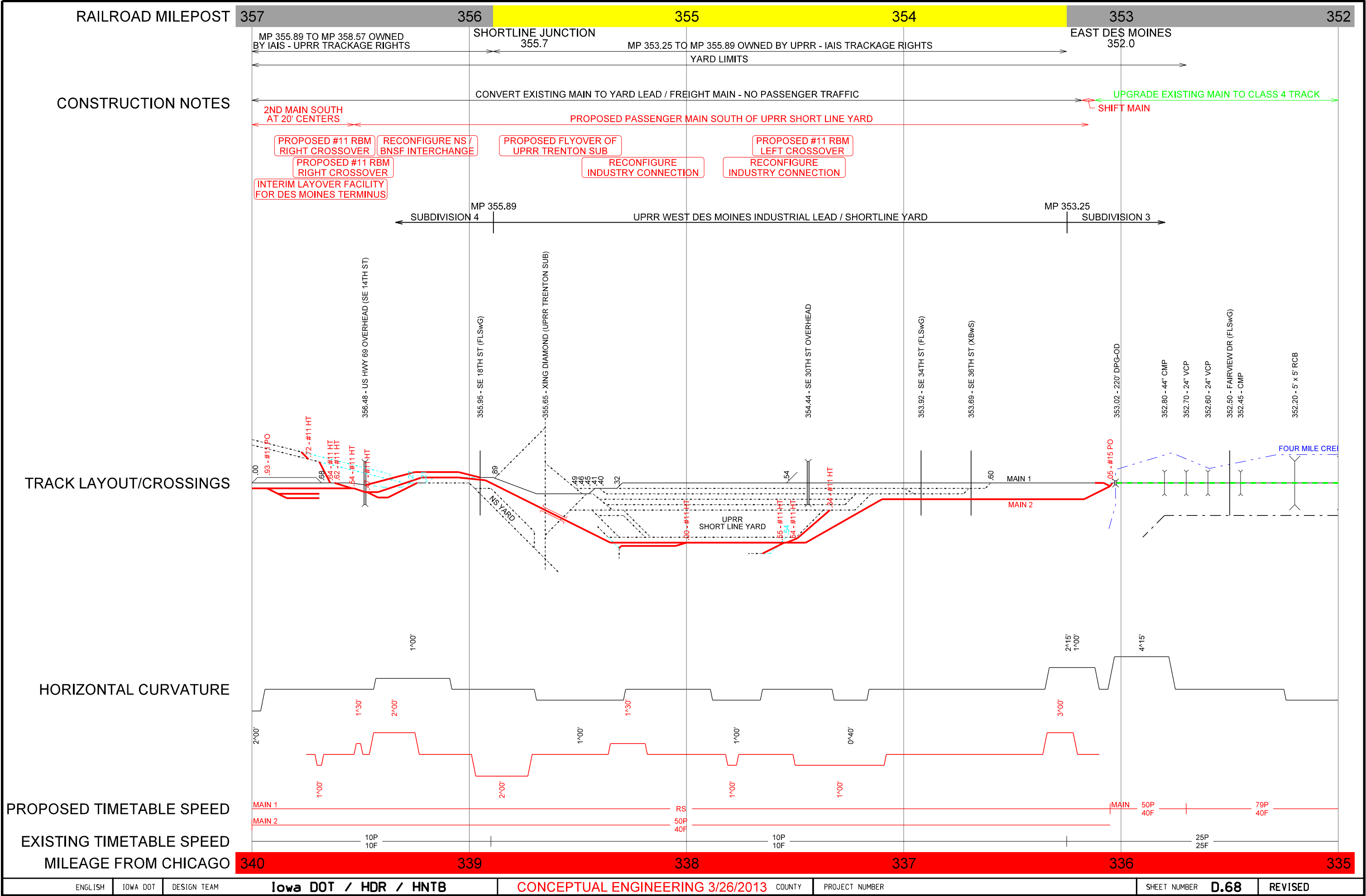












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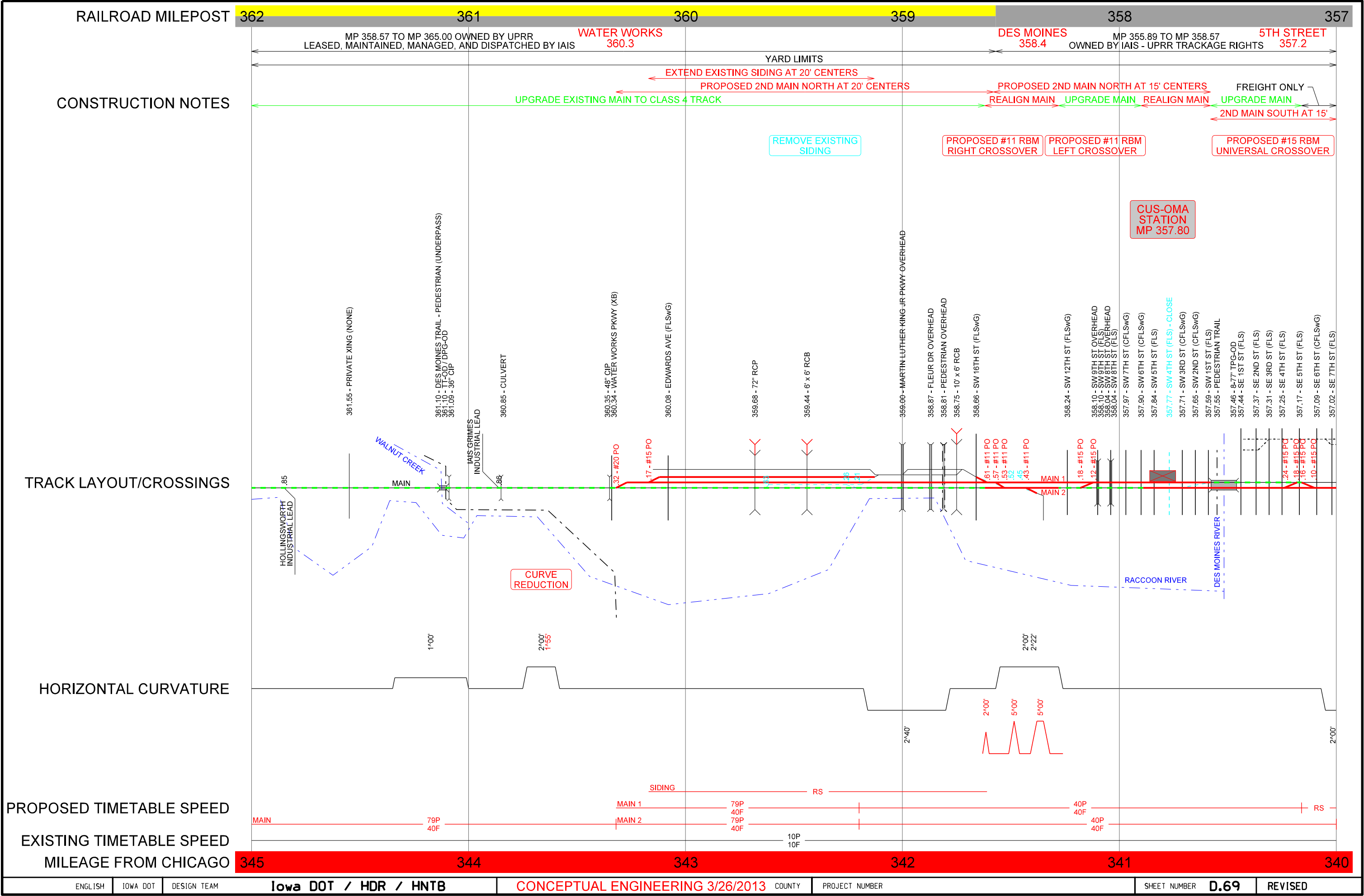
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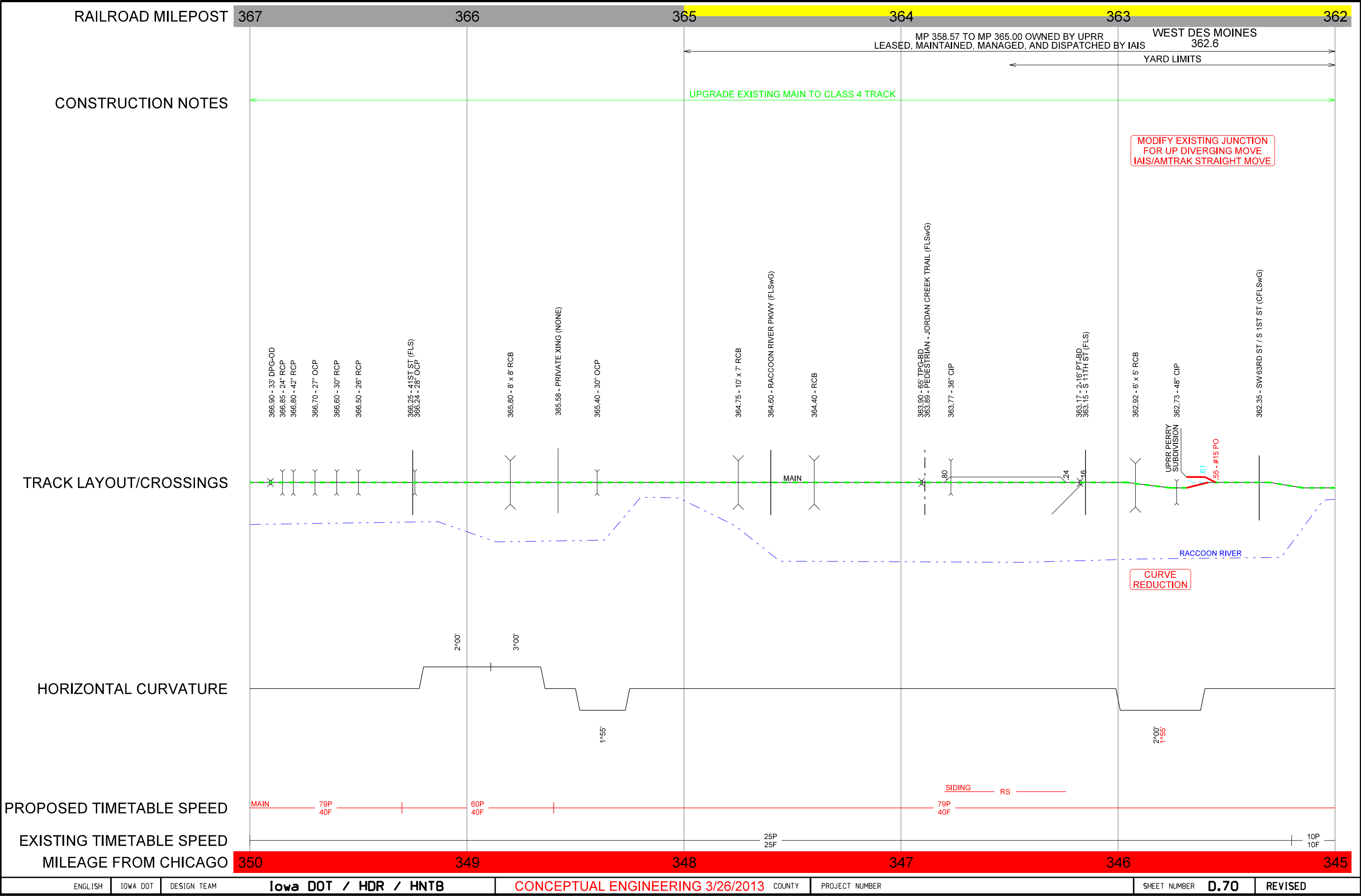
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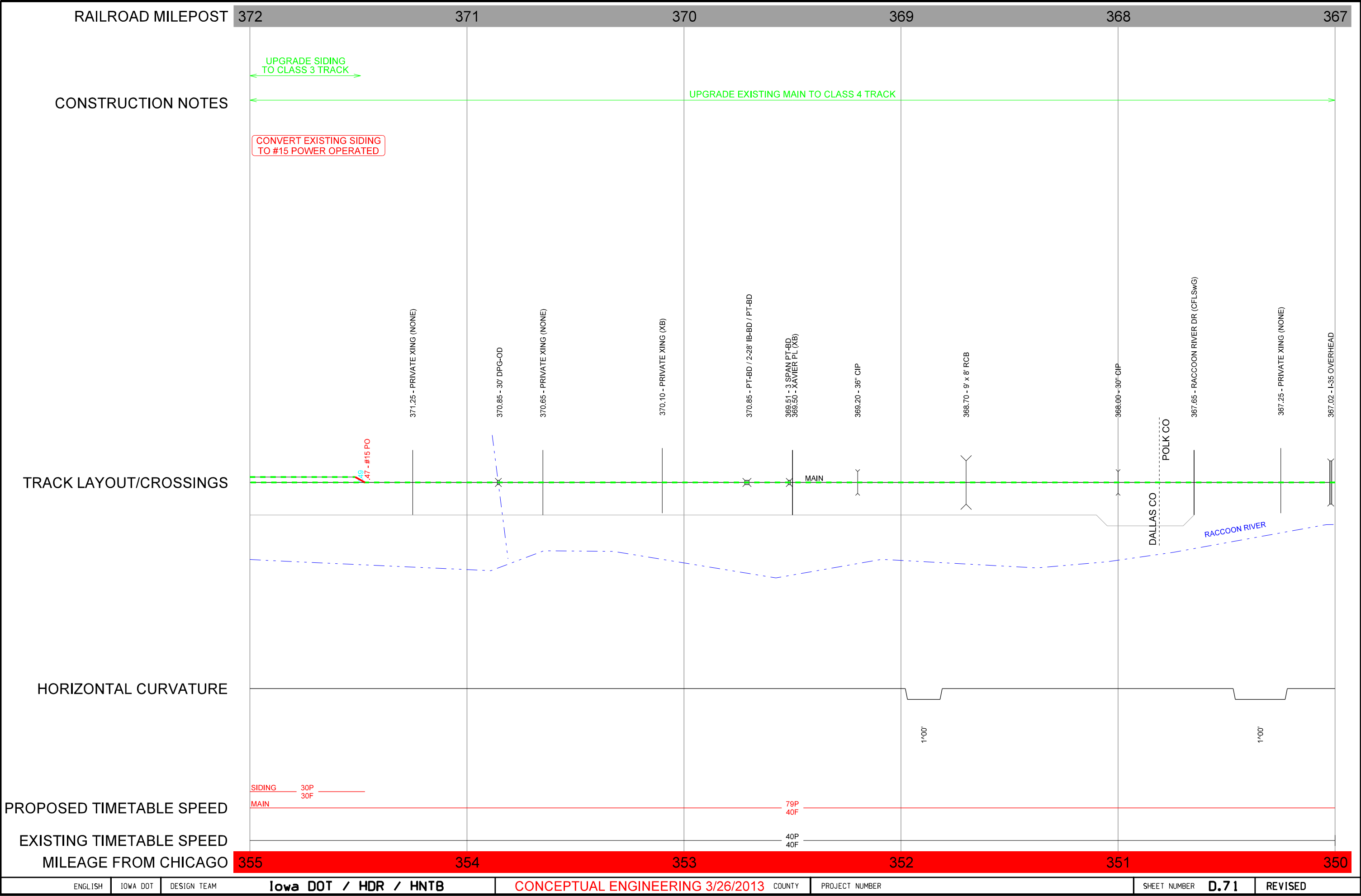
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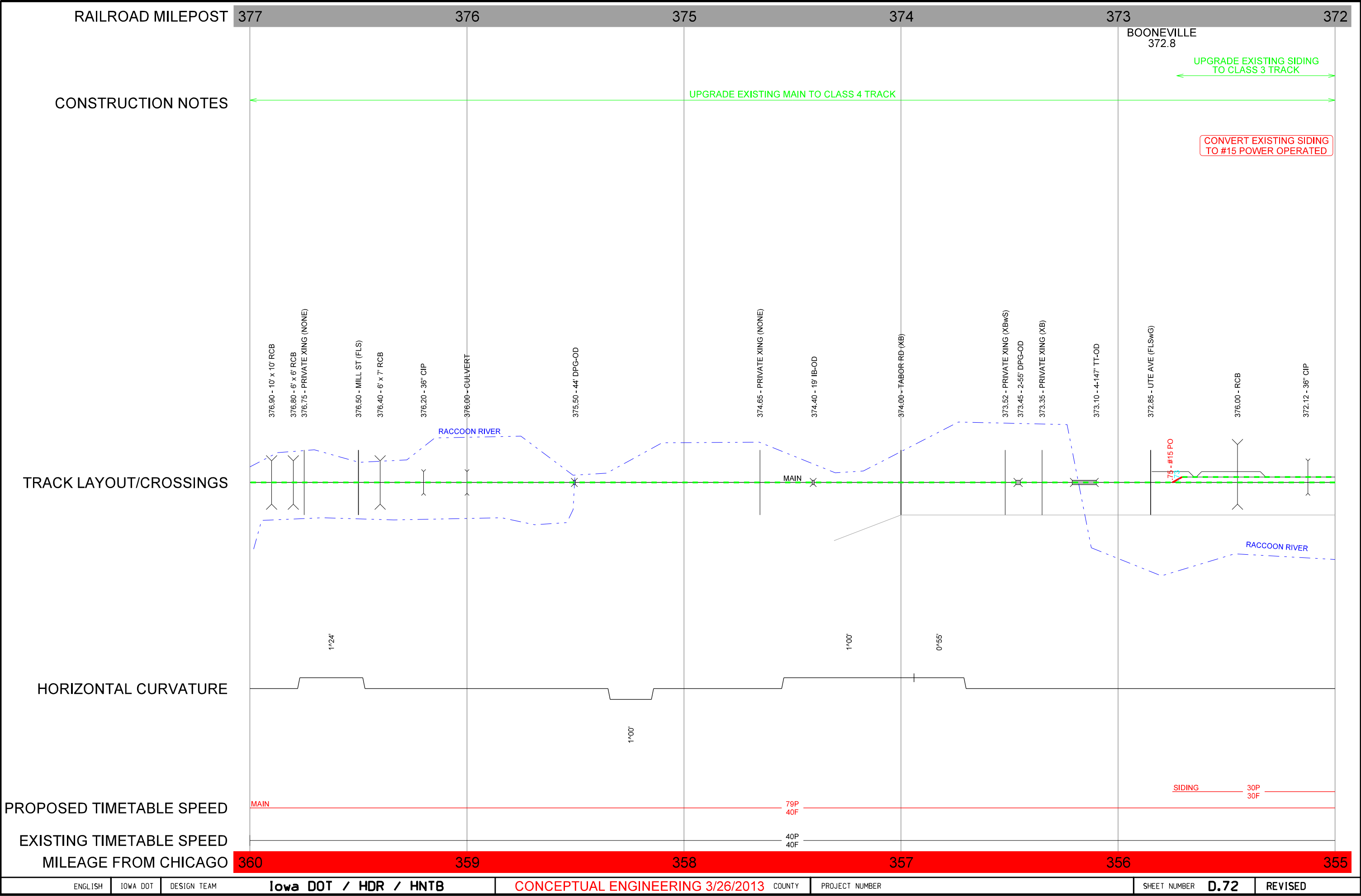
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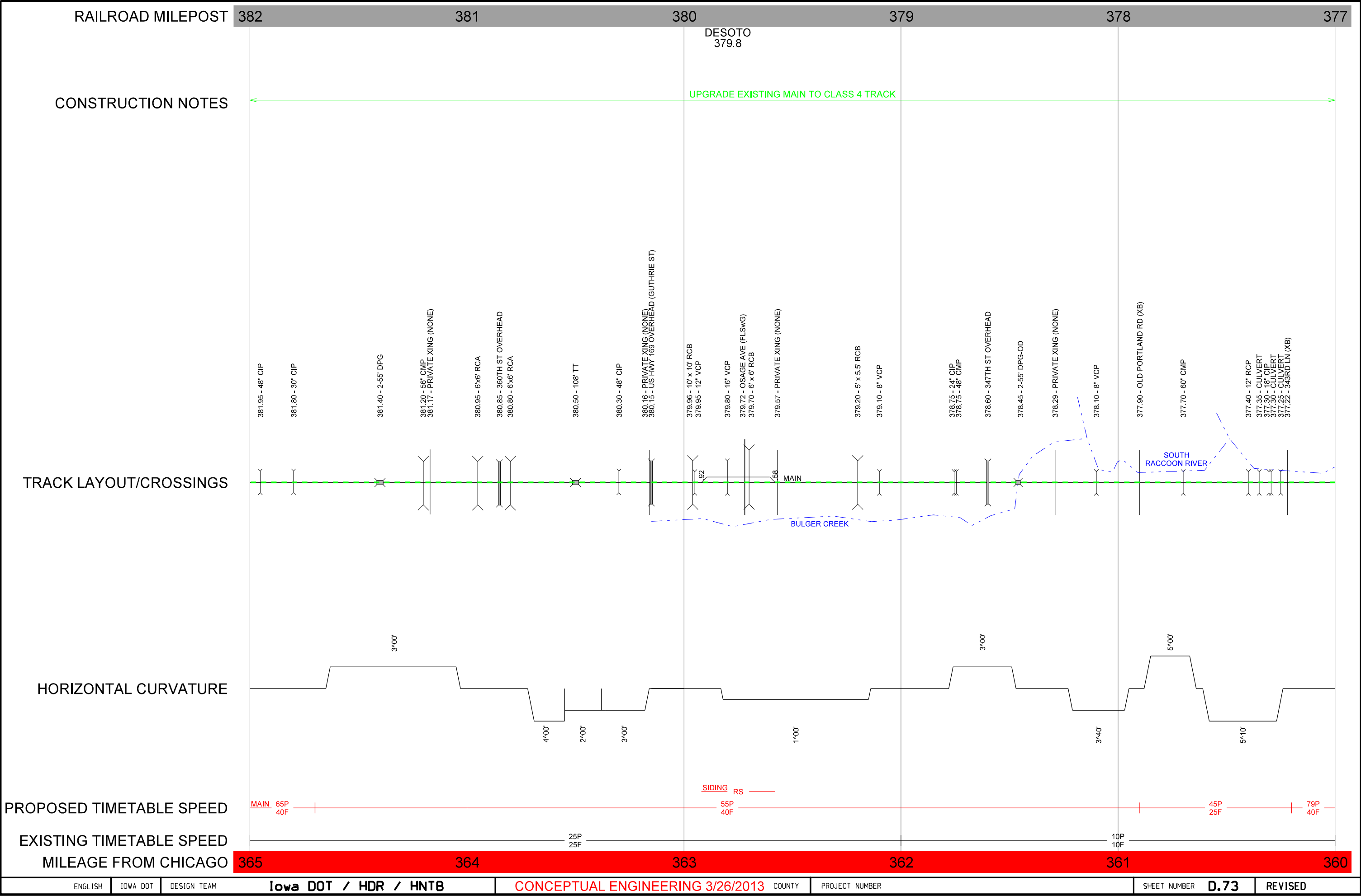
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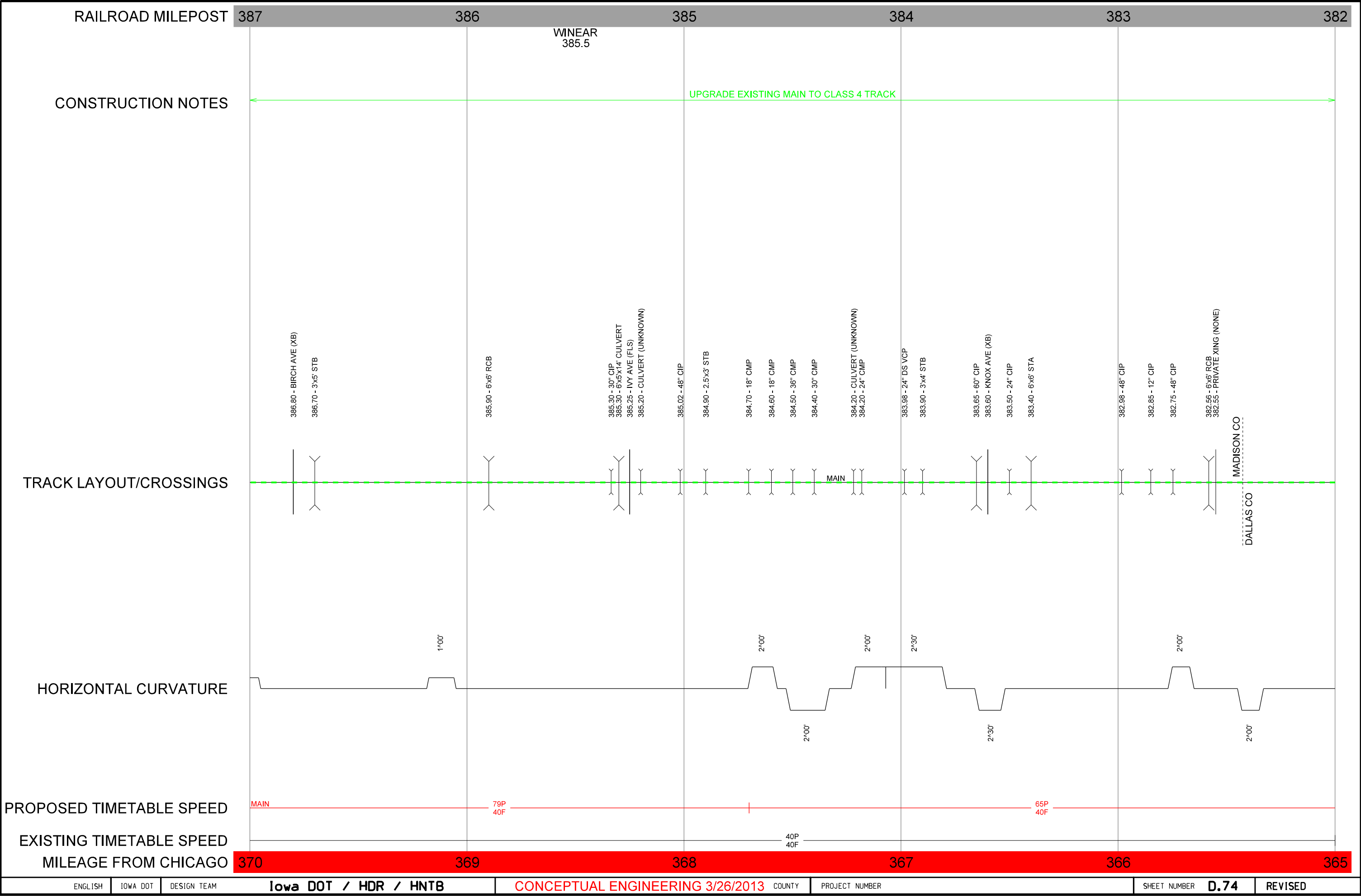


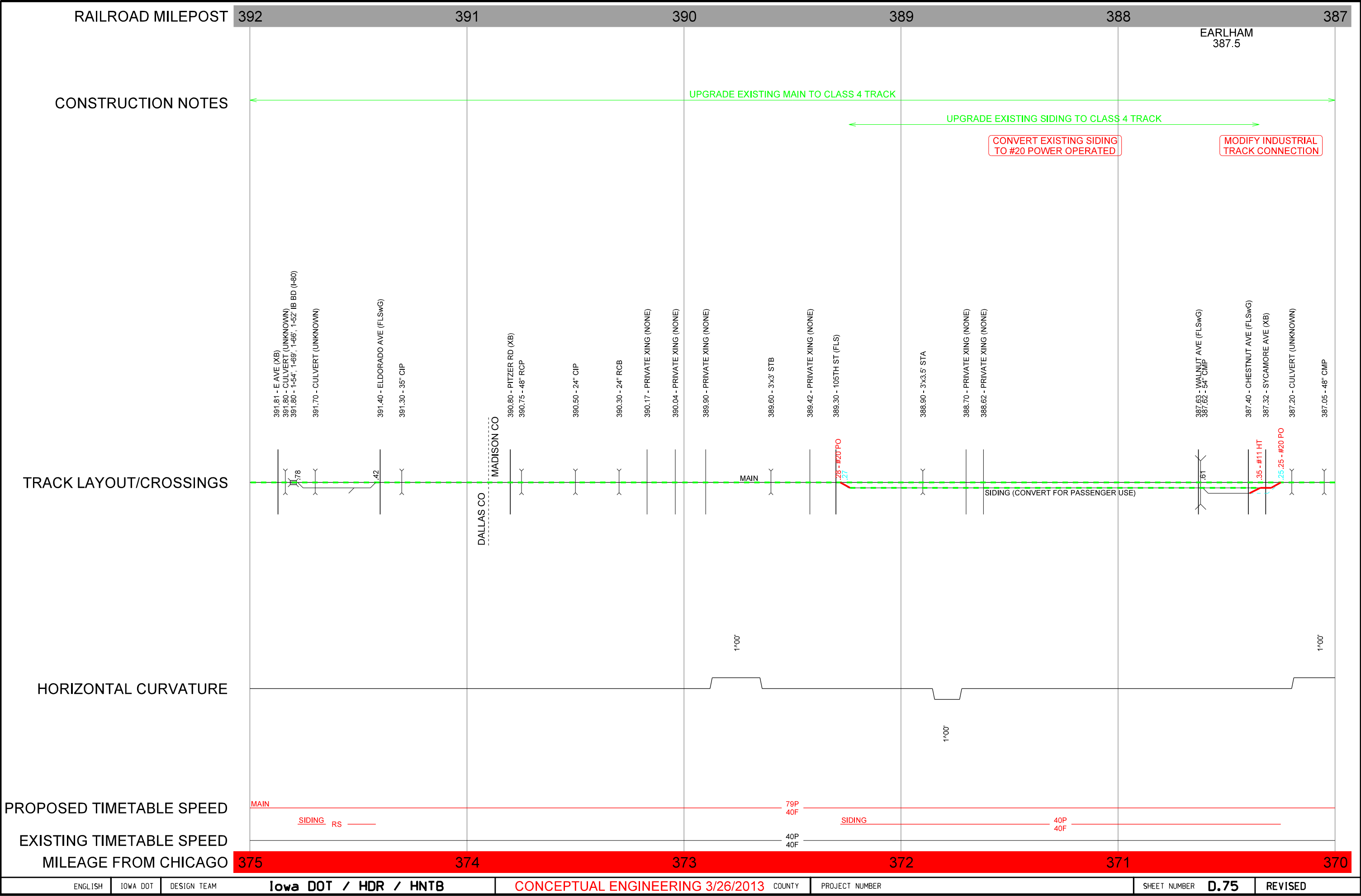


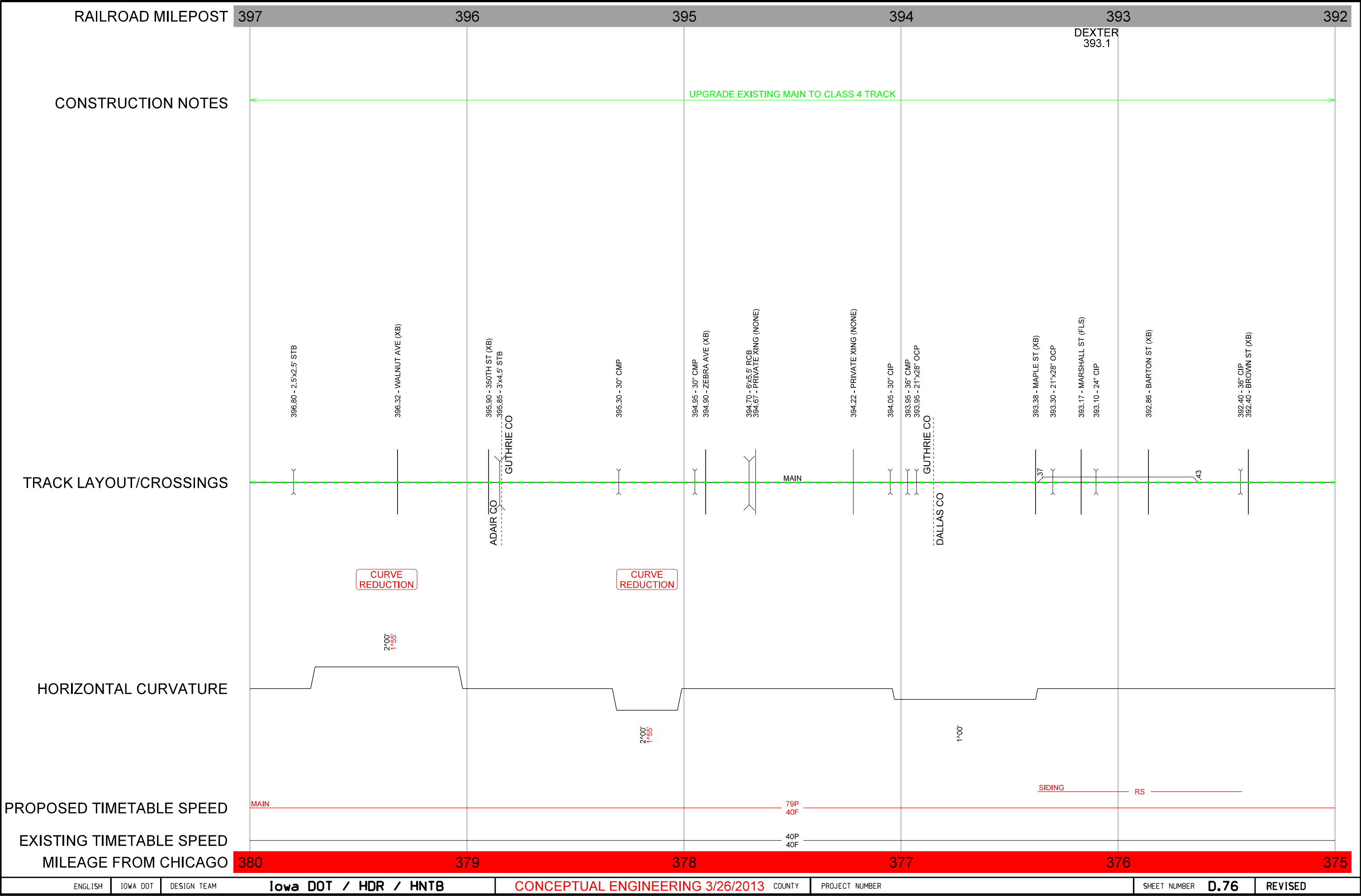


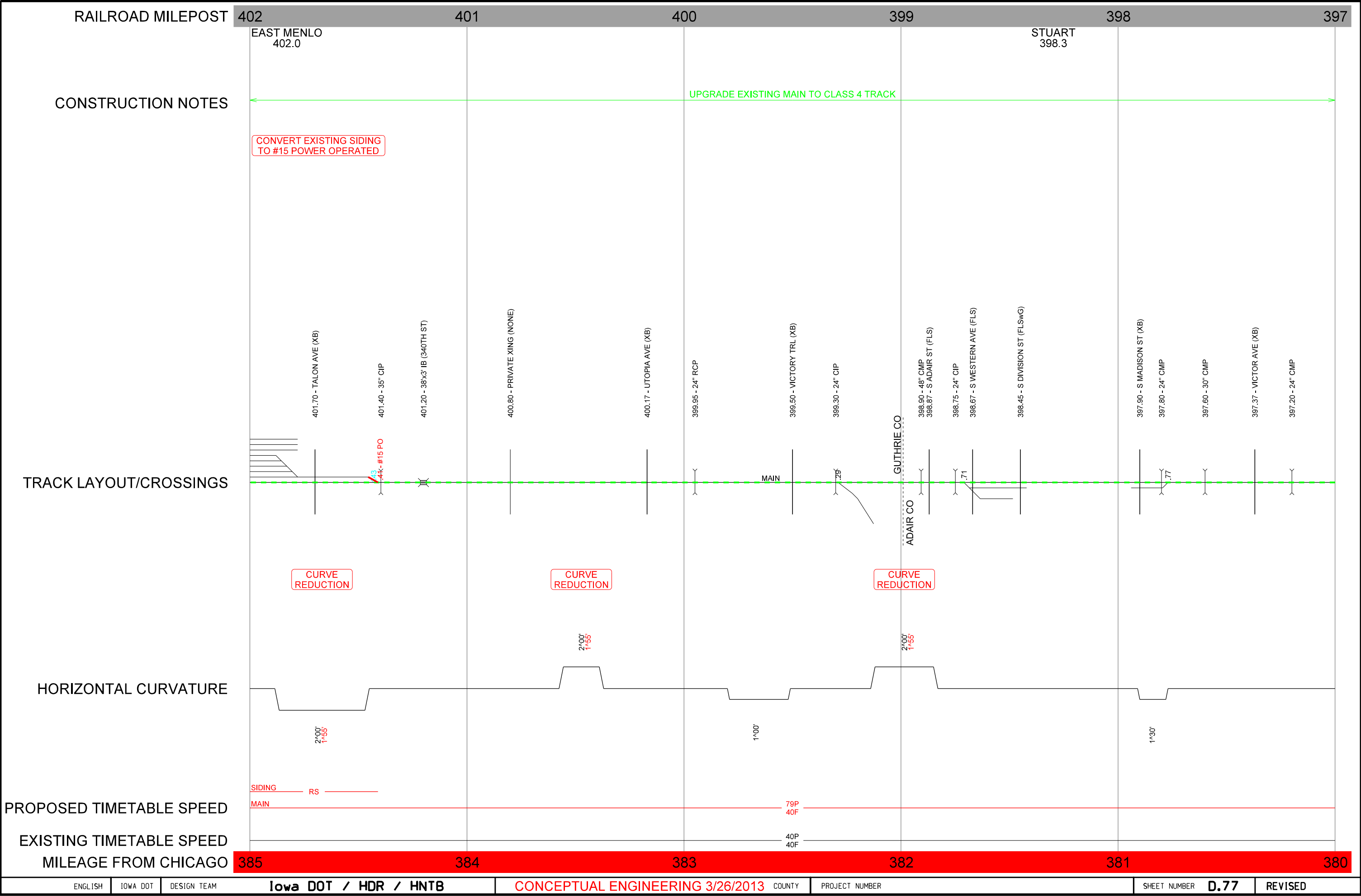


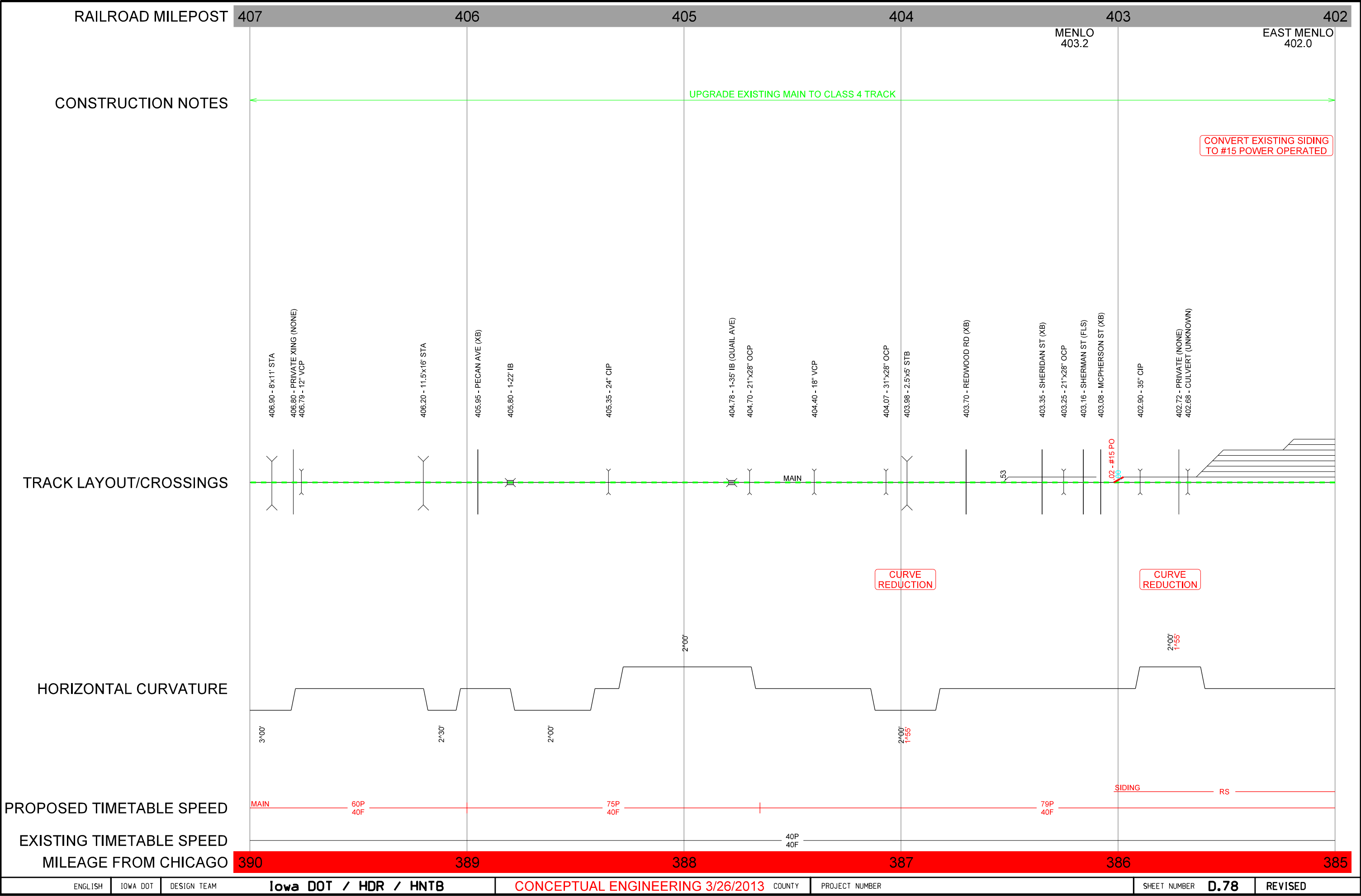


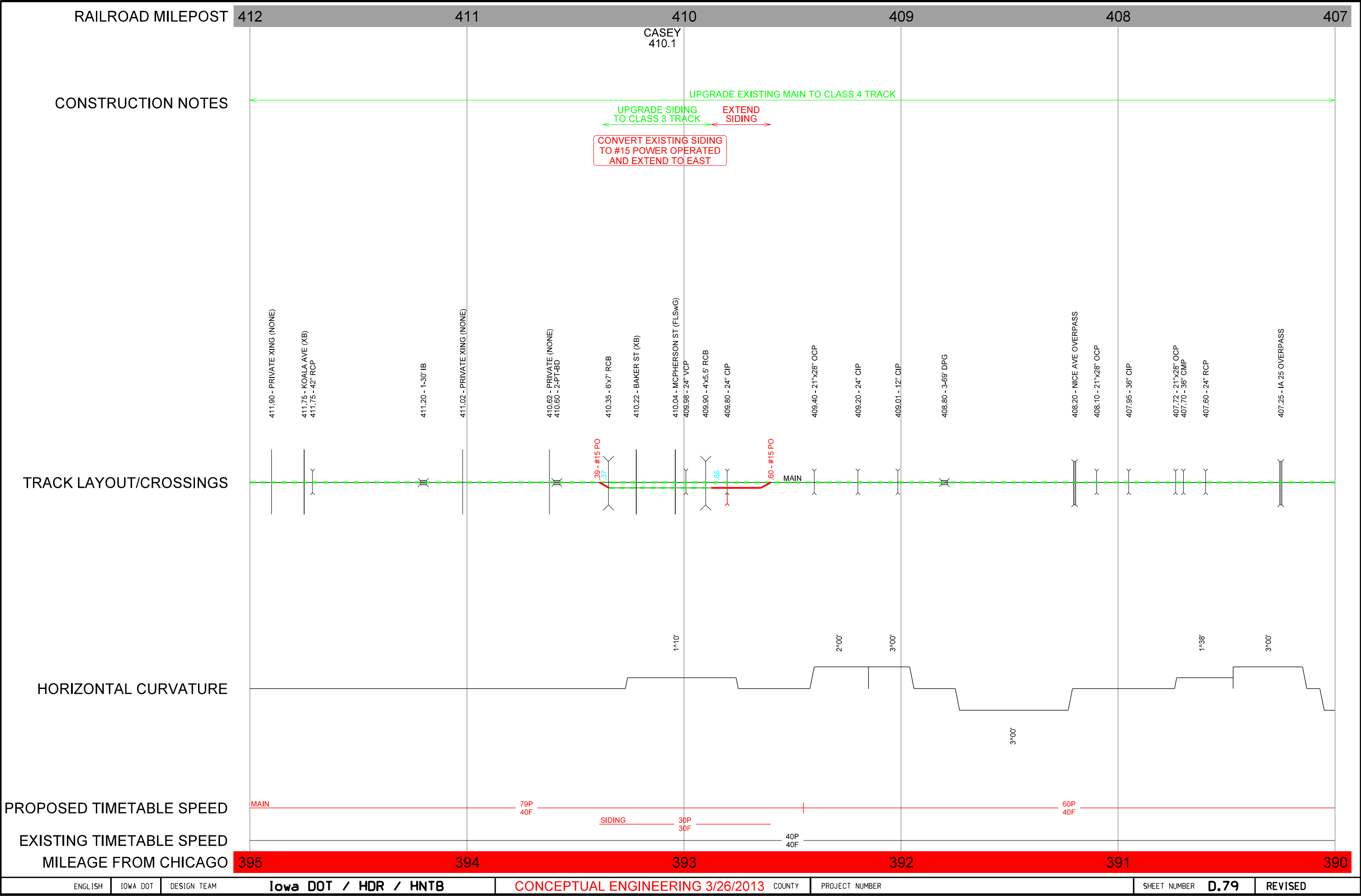


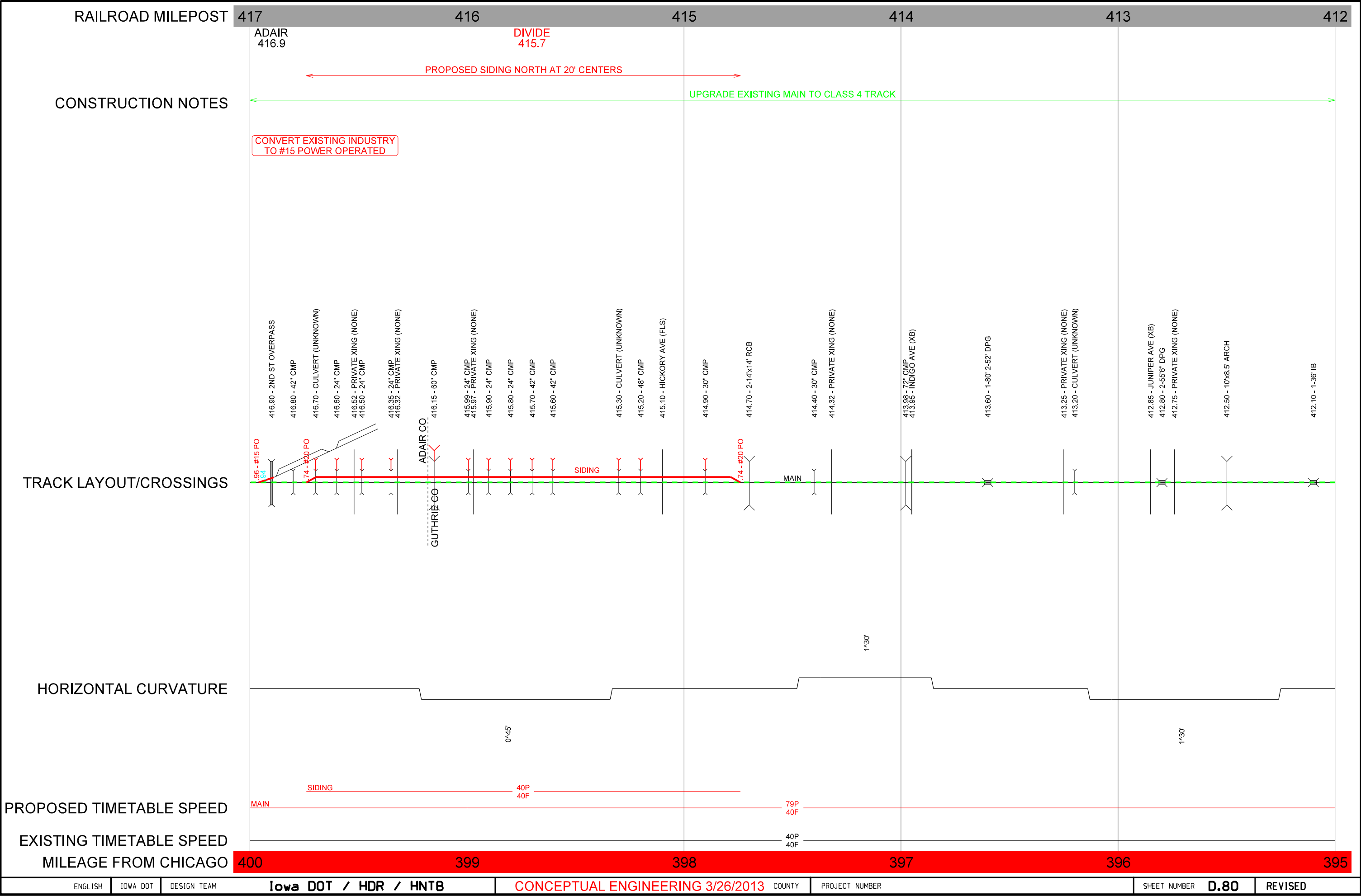


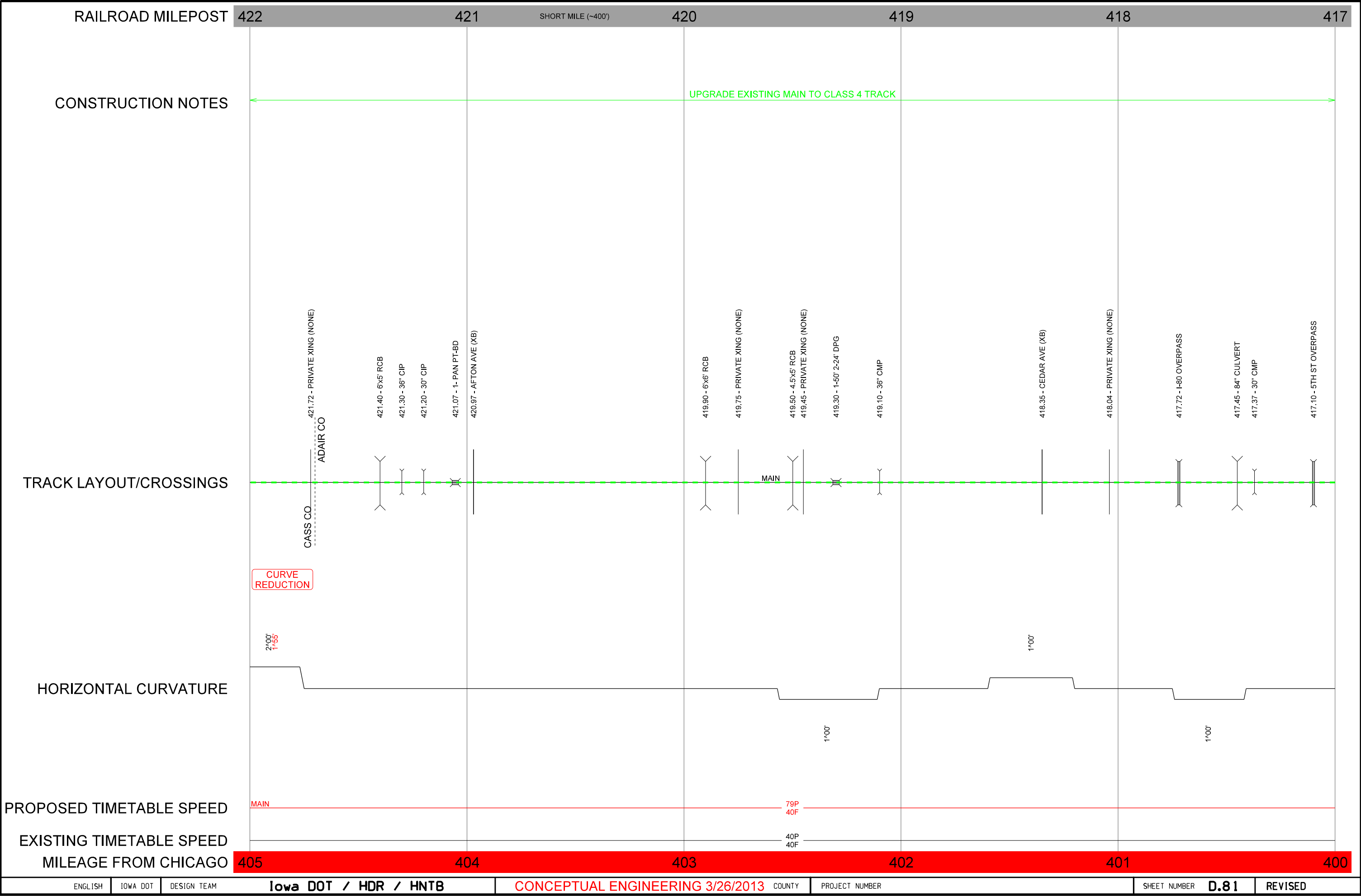












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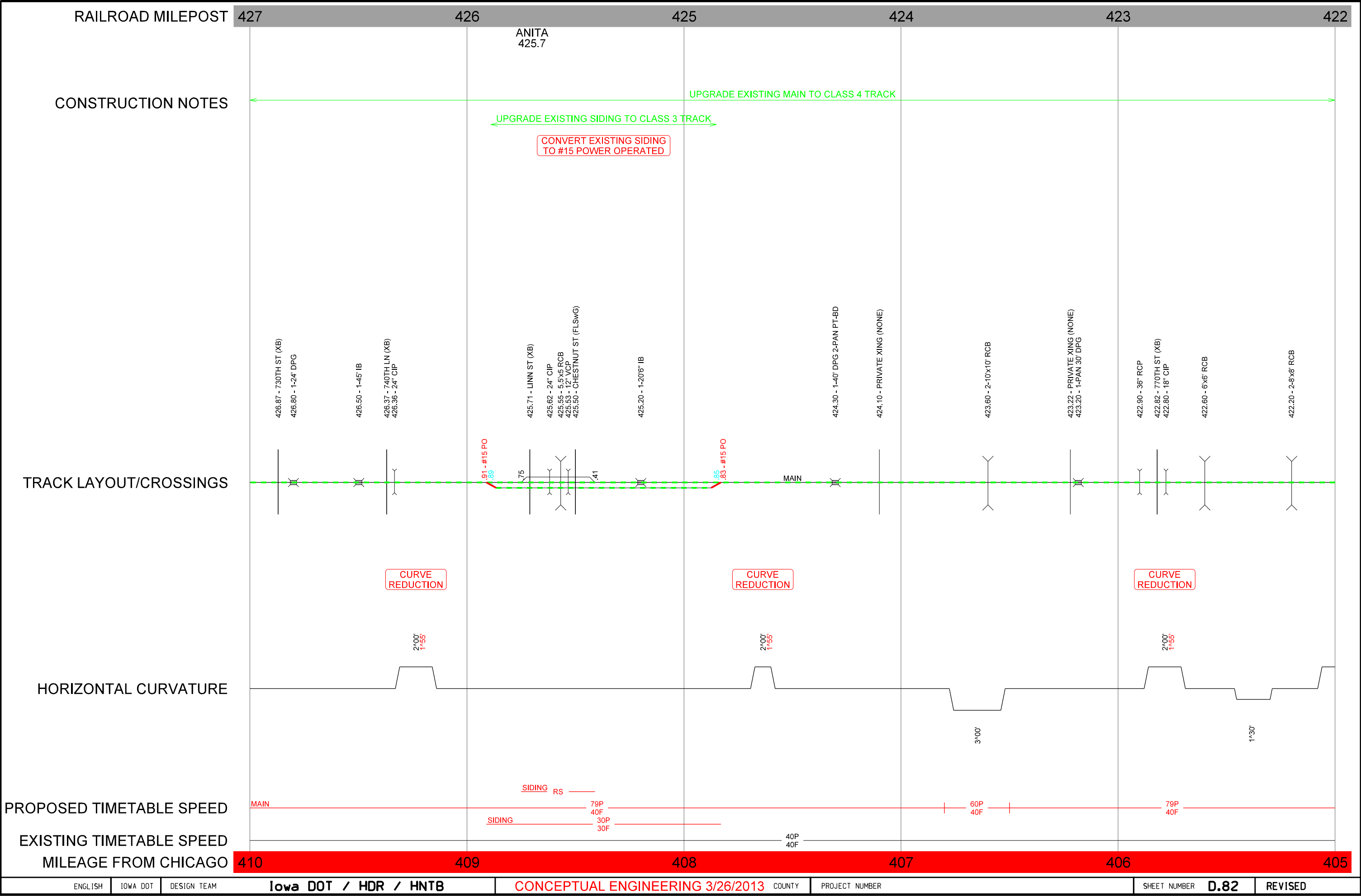
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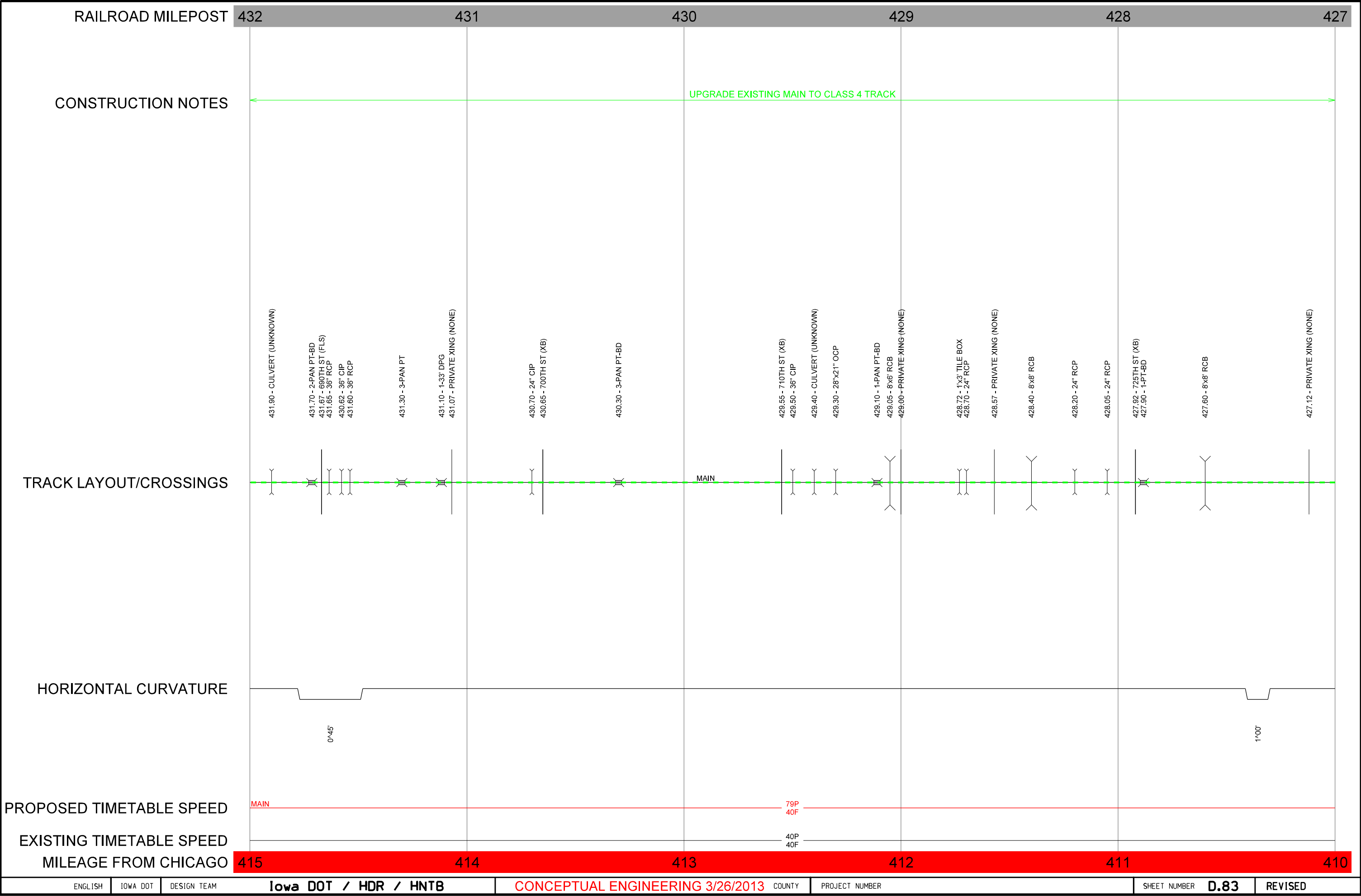
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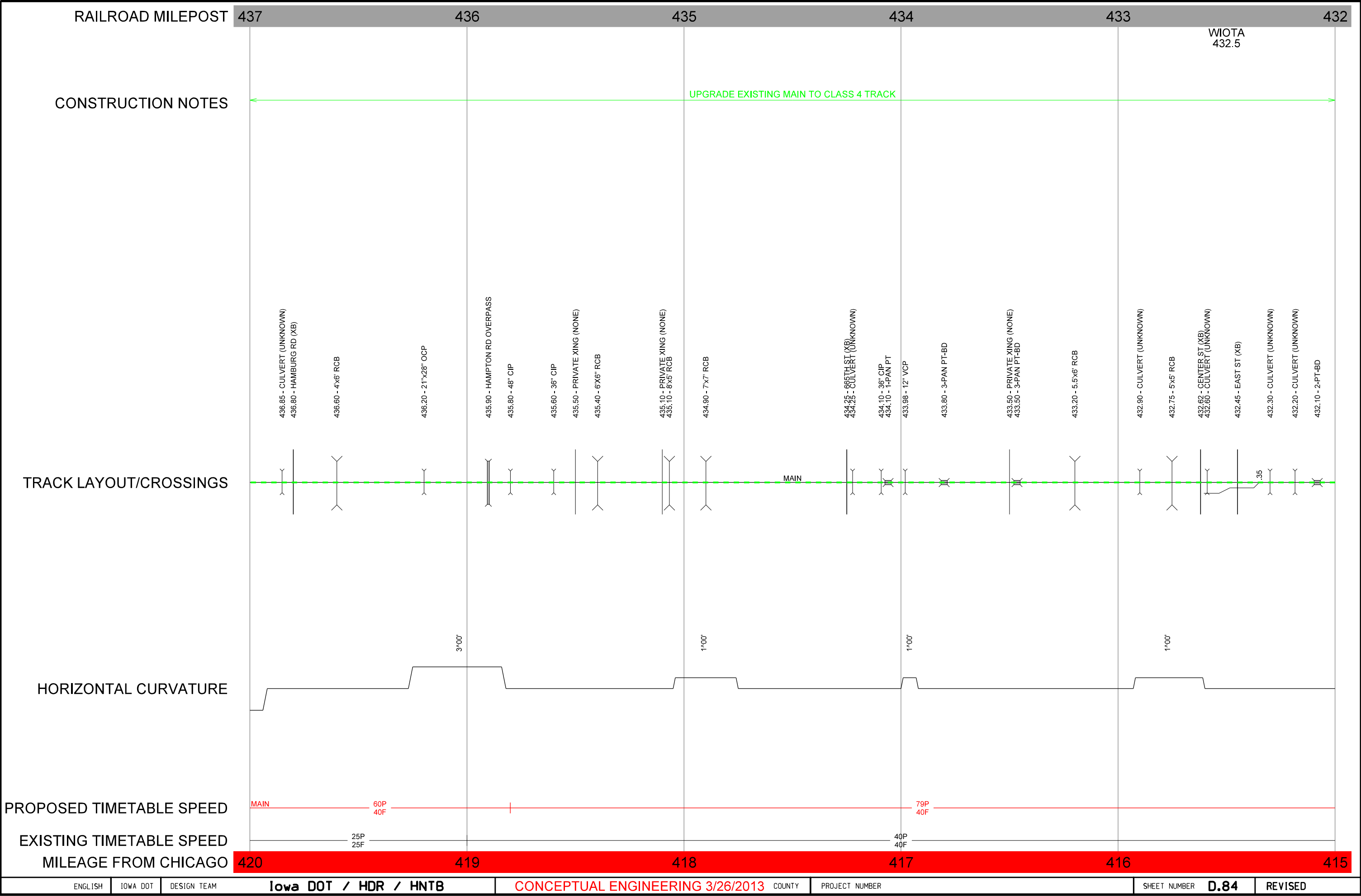
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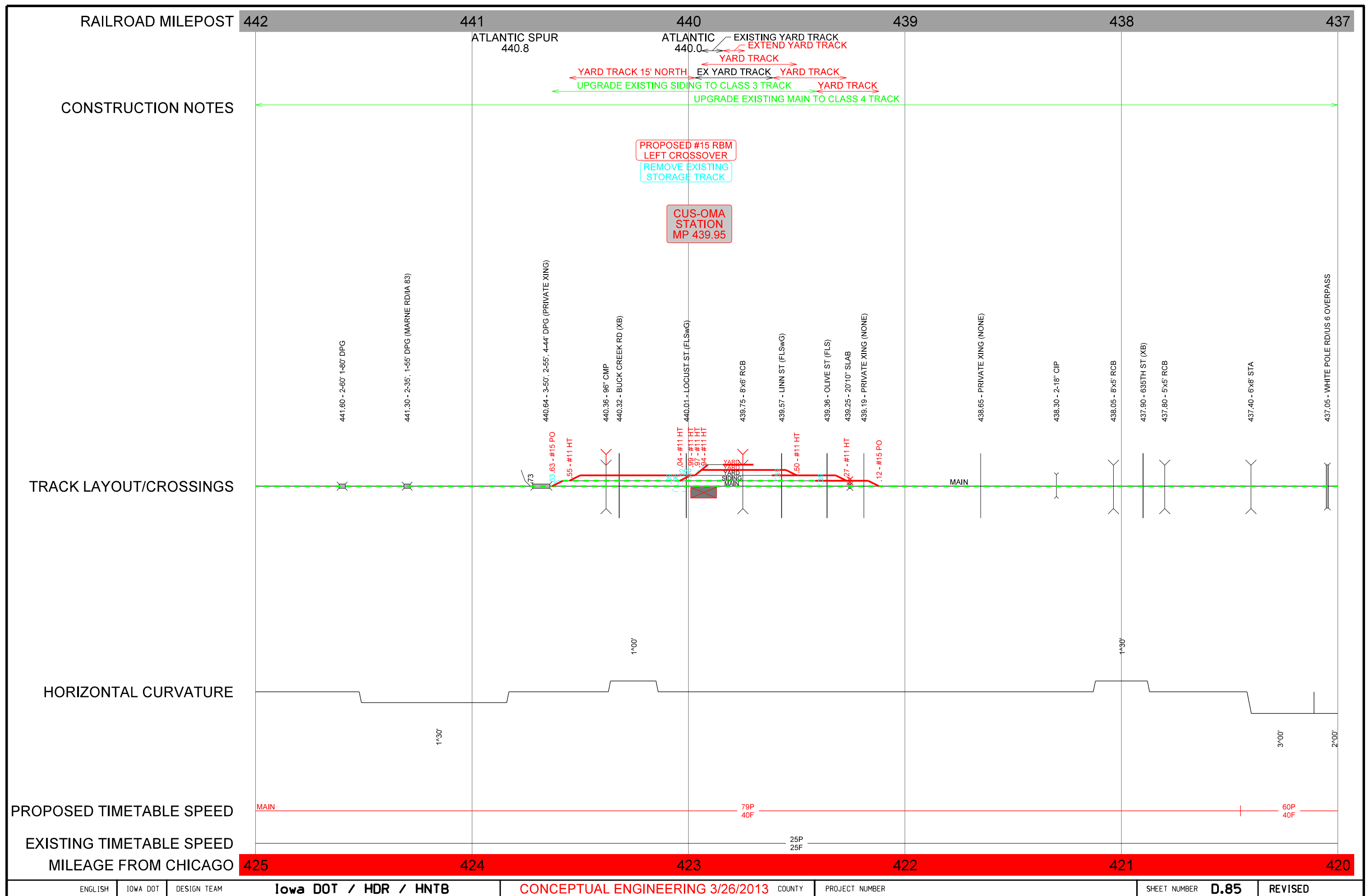
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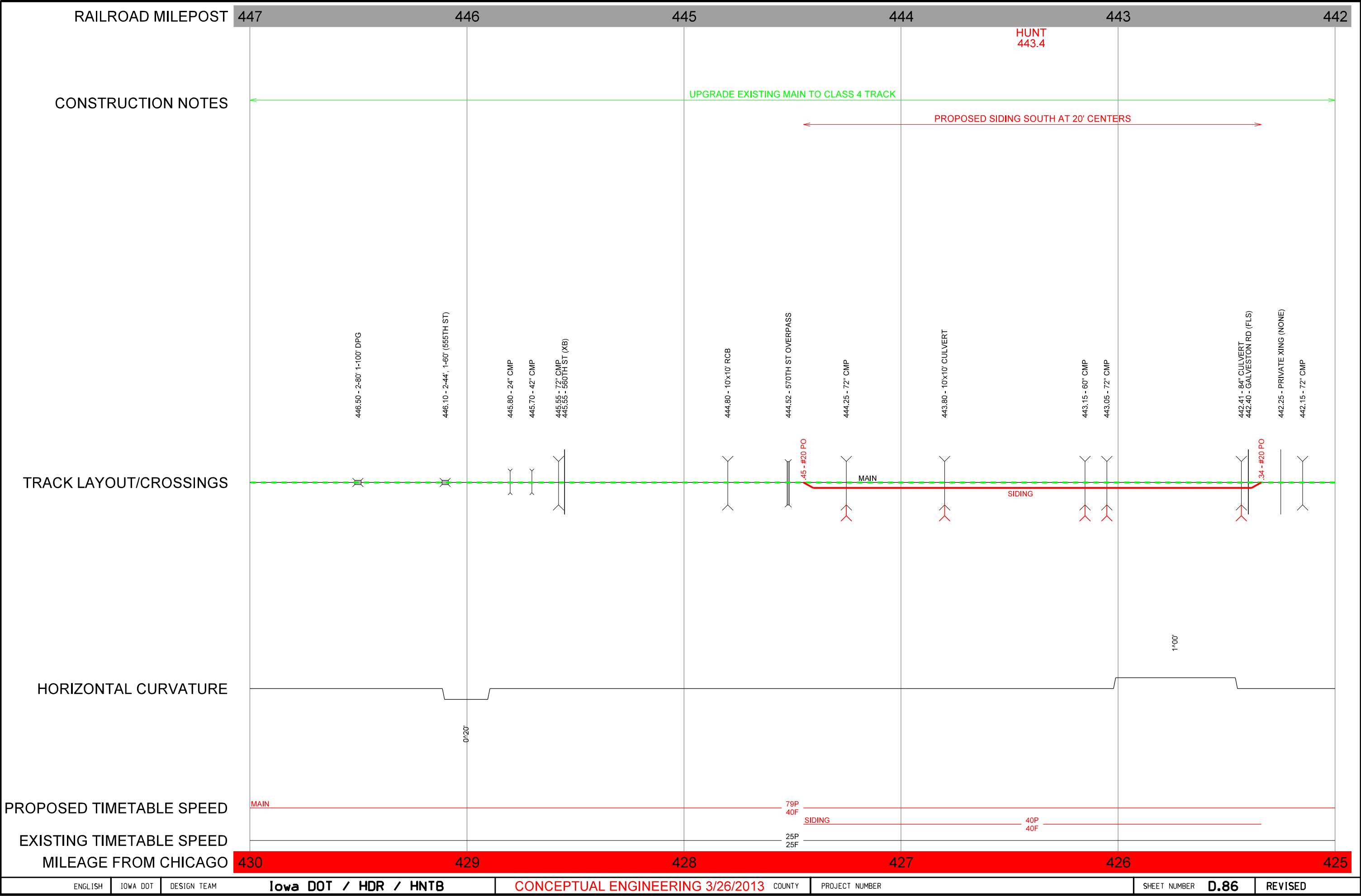
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