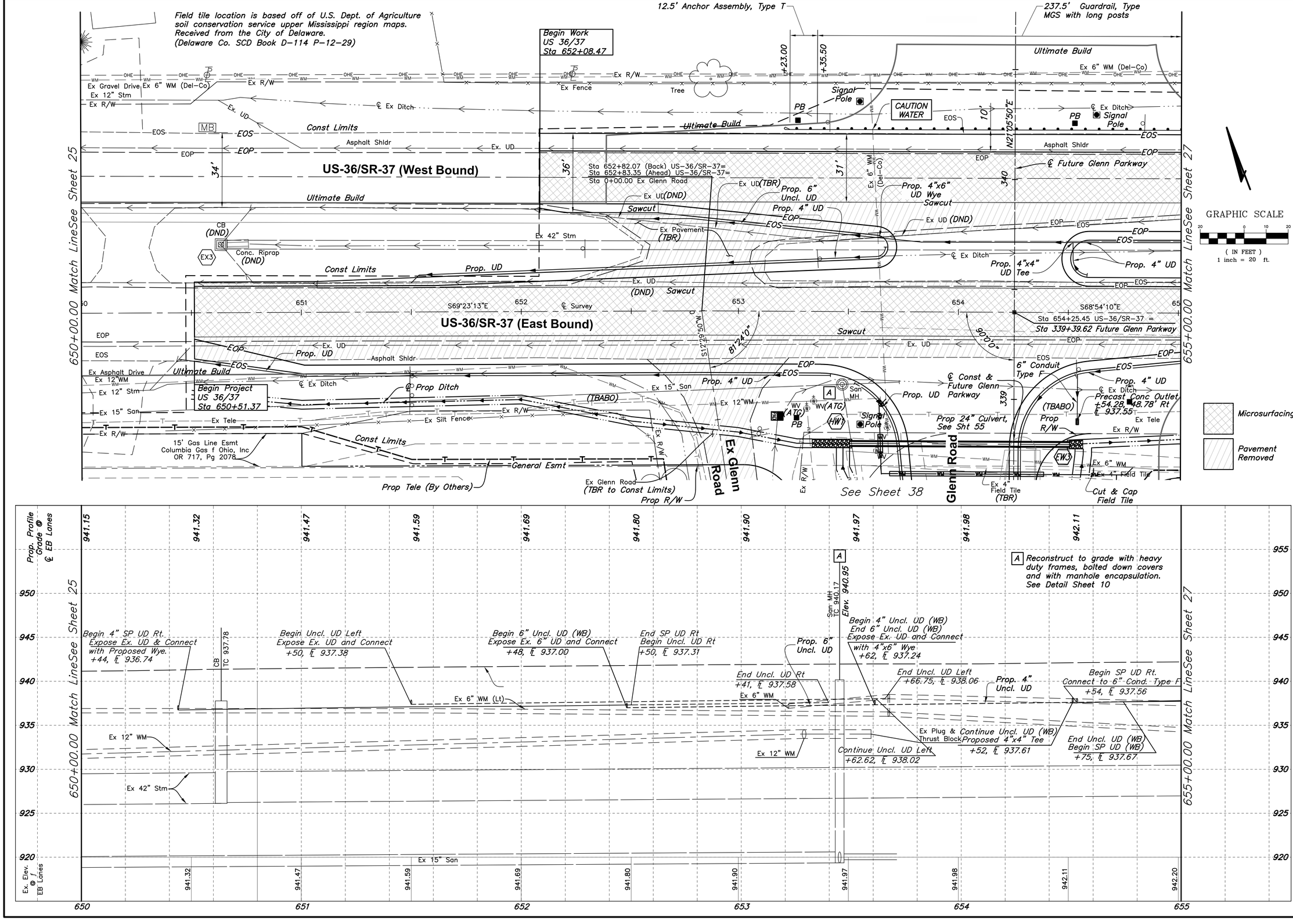

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

PLAN AND PROFILE
US-36/SR-37
STA. 650+00 TO STA. 655+00

Job No. 20080386
Sheet 26 / 74
Date February 2015
Scale Horiz: 1" = 20'

EMH&T
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9 Xrefs: 80386_HDR, 80386_STA, 80386_XCL, 80386_XPR, 80386_XPL, 80386_XEU, 80386_XDW, 80386_XPU, sheet

237.5' Guardrail, Type MGS With Long Posts

37.50' Guardrail, Type MGS, Long Span

25' Guardrail, Type MGS with Long Posts

50' Anchor Assembly, Type E

+73.00

+10.50

+35.50

+85.50

Field tile location is based off of U.S. Dept. of Agriculture soil conservation service upper Mississippi region maps. Received from the City of Delaware. (Delaware Co. SCD Book D-114 P-12-29)

End Work US-36/SR-37 Sta 658+35.30

Ex 6" WM (Del-Co)

Tree

OHE

℄ Ex Ditch

Const Limits

Ex 12" Stm

CB

Ex R/W

Ultimate Build

10'

EOS

Asphalt Shldr

Const Limits

EOP

℄ Survey

End Resurfacing Widening East Bound Lanes 655+59.47

31'

US-36/SR-37 (west bound)

Sawcut

Ex Pavement (TBR)

CB (TBR) MH-3

CB2-4

Ex 42" Stm

Ex 12" Stm (TBR)

Prop. 4" UD

CB-5A

Type F Conduit

Ex 42" Stm

18" Stm

Ex Conc Riprap (TBR)

CB2-2B

655+00.00 Match LineSee Sheet 26

656

657

658

659

660

US-36/SR-37 (east bound)

Brown Township

City of Delaware

End Project US-36/SR-37 Sta 659+25.00

Signal Pole

Ex Tele

Ex 6" Stm (TBR)

Ex 15" Stm (TBR)

℄ Prop. Ditch

Ex 54" Stm

Ex WW

Ex 8"Stm

Ex 36" Stm

Esmt

Ex 4" Field Tile

General Esmt

(2) 4" Communication Conduits

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

Microsurfacing

Pavement Removed

Prop. Profile Grade @ ℄ EB Lanes

Ex. Elev. @ ℄ EB Lanes

942.20 942.31 942.42 942.49 942.49 942.53 942.59 942.59 942.66 942.79 942.96

CB-5A
Sta. 656+16.34, 27.97' Lt
T/C 940.80 = BTM Ditch 940.80
INV. = 932.75

CB2-2B
Sta. 657+01.76, 25' Lt
T/C 940.80 =BTM Ditch 940.80
INV. = 936.00

MH-3
Sta. 657+01.76, 31.21' Lt
T/C 941.90
INV. = 927.32

CB2-4
Sta. 658+48.38, 31.43' Lt
T/C 939.00 = BTM Ditch 939.00
INV. = 927.62

End SP UD Rt. +50, ℄ 938.38

End SP UD (WB) +15, ℄ 938.00

Begin Uncl. UD (WB) Connect to 6" Cond. Type F +16.50, ℄ 937.88

End Uncl. UD (WB) +98, ℄ 938.12

Begin SP UD (WB) Connect to #4 +03, ℄ 938.13

End SP UD (WB) +24, ℄ 938.43

CB TC 938.94

CB TC 940.88

CB TC 940.88

CB TC 941.08

Ex. ℄ Const.

Ex 6" WM

Ex 6" WM

Ex 42" Stm

Ex 36" Stm

Ex 36" Stm

Ex 36" Stm

Ex 42" Stm

Ex 54" Stm
Inv El 932.87
@ Survey ℄

955 950 945 940 935 930 925 920

655 656 657 658 659 660

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

Job No. 20080386

Sheet 27 / 74

Date February 2015

Scale Horiz: 1" = 20'

PLAN AND PROFILE
US-36/SR-37
STA. 655+00 TO STA. 660+00

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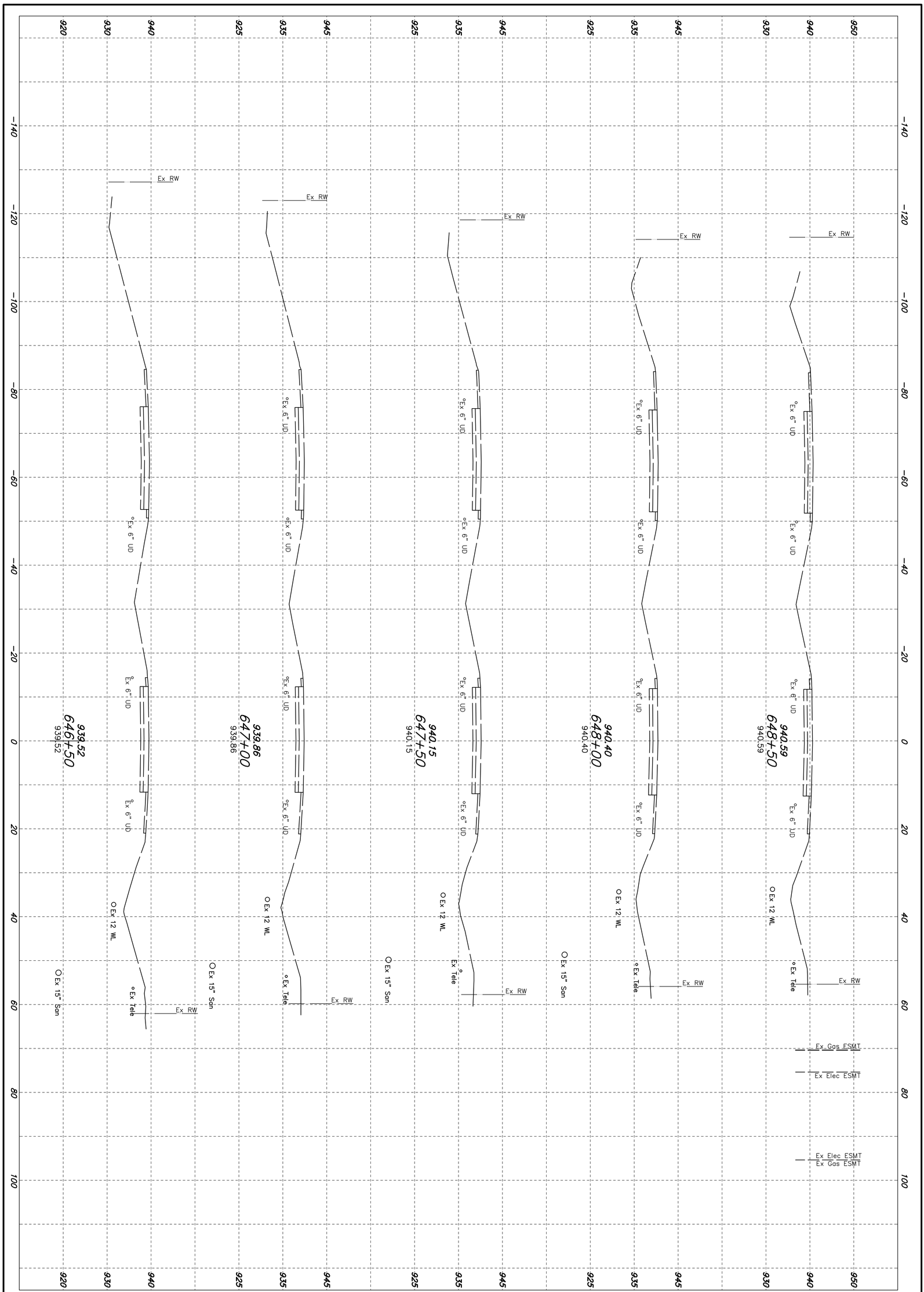

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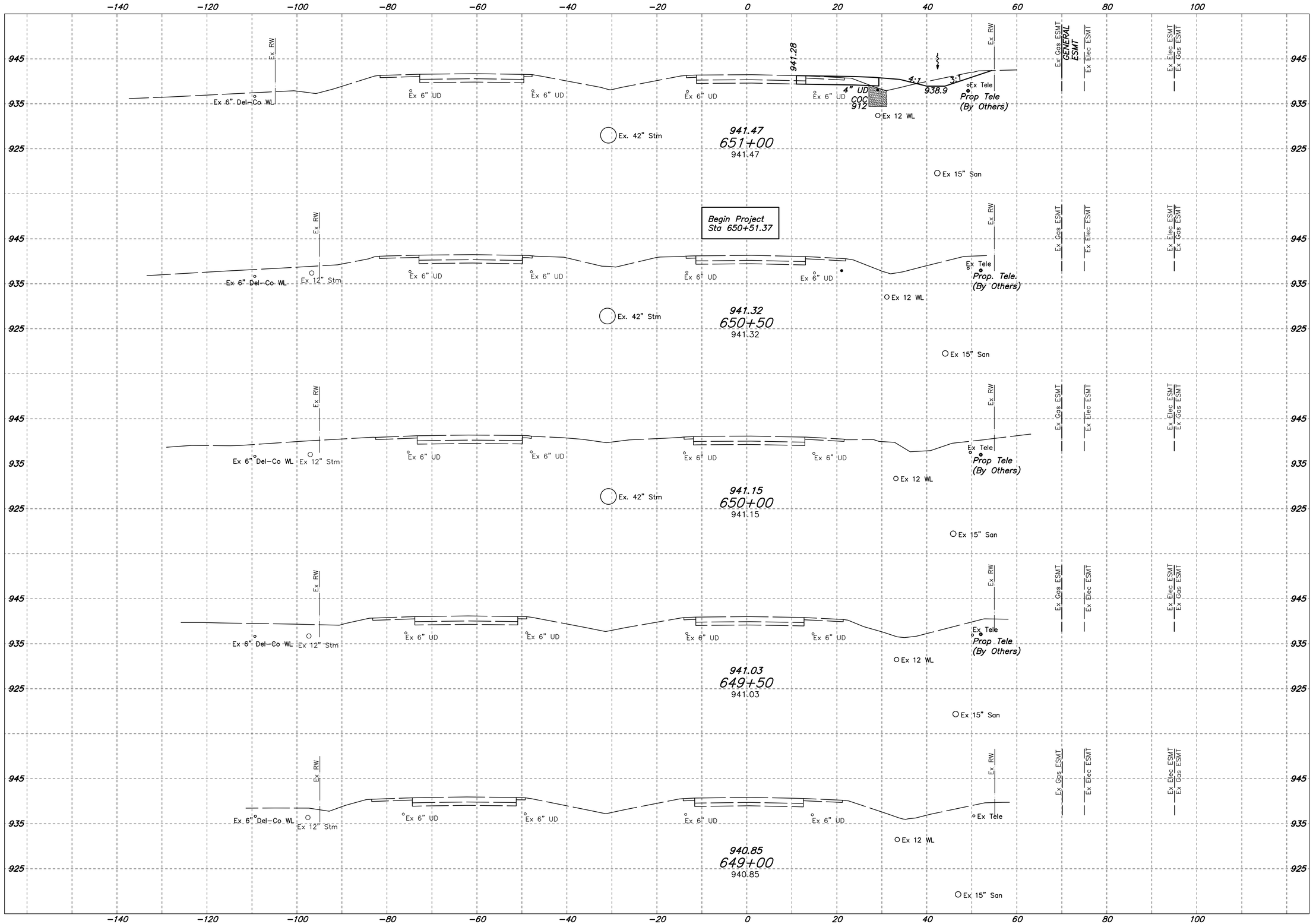
M C M X X V I

CROSS SECTIONS
US-36/SR-37 (East Bound)
STA. 646+50.00 TO STA. 648+50.00

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

Date	Job No.
February 2015	20080386
Scale: Horiz: 1" = 10' Vert: 1" = 10'	Sheet: 28 / 74



CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

CROSS SECTIONS
US-36/SR-37 (East Bound)
STA. 649+00.00 TO STA. 651+00.00

Job No. 20080386
Sheet 29 / 74
Date February 2015
Scale Horiz: 1" = 10' Vert: 1" = 10'

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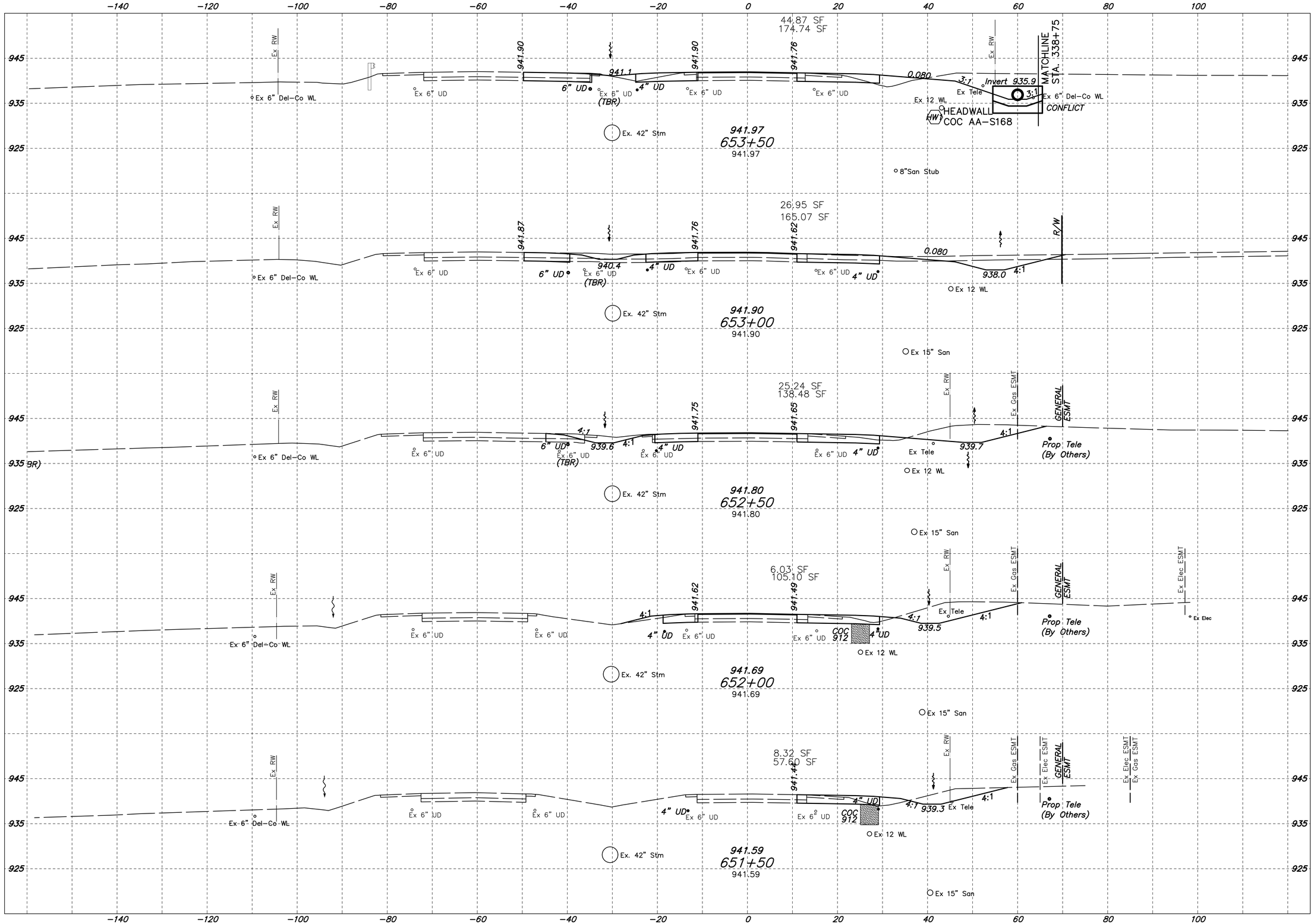

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2 Xrefs: 80386_XXA, sheet

Job No. 20080386 | Sheet 30 / 74

Date February 2015 | Scale Horiz: 1" = 10' Vert: 1" = 10'

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

CROSS SECTIONS
US-36/SR-37 (East Bound)
STA. 651+50.00 TO STA. 653+50.00

REVISIONS

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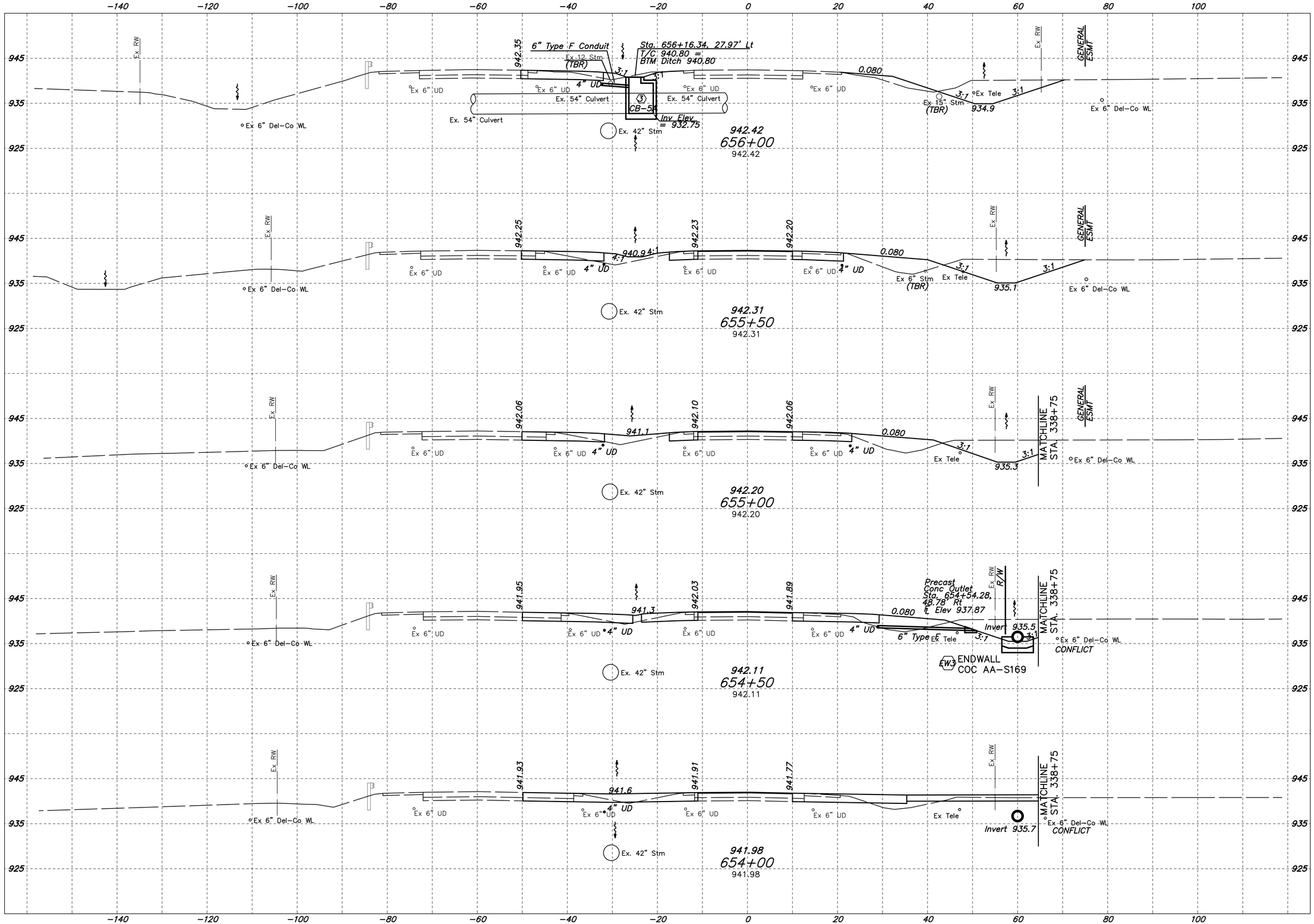

CROSS SECTIONS
US-36/SR-37 (East Bound)
STA. 654+00.00 TO STA. 656+00.00

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

Job No. 20080386
Sheet 31 / 74
Date February 2015
Scale Horiz: 1" = 10'
Vert: 1" = 10'

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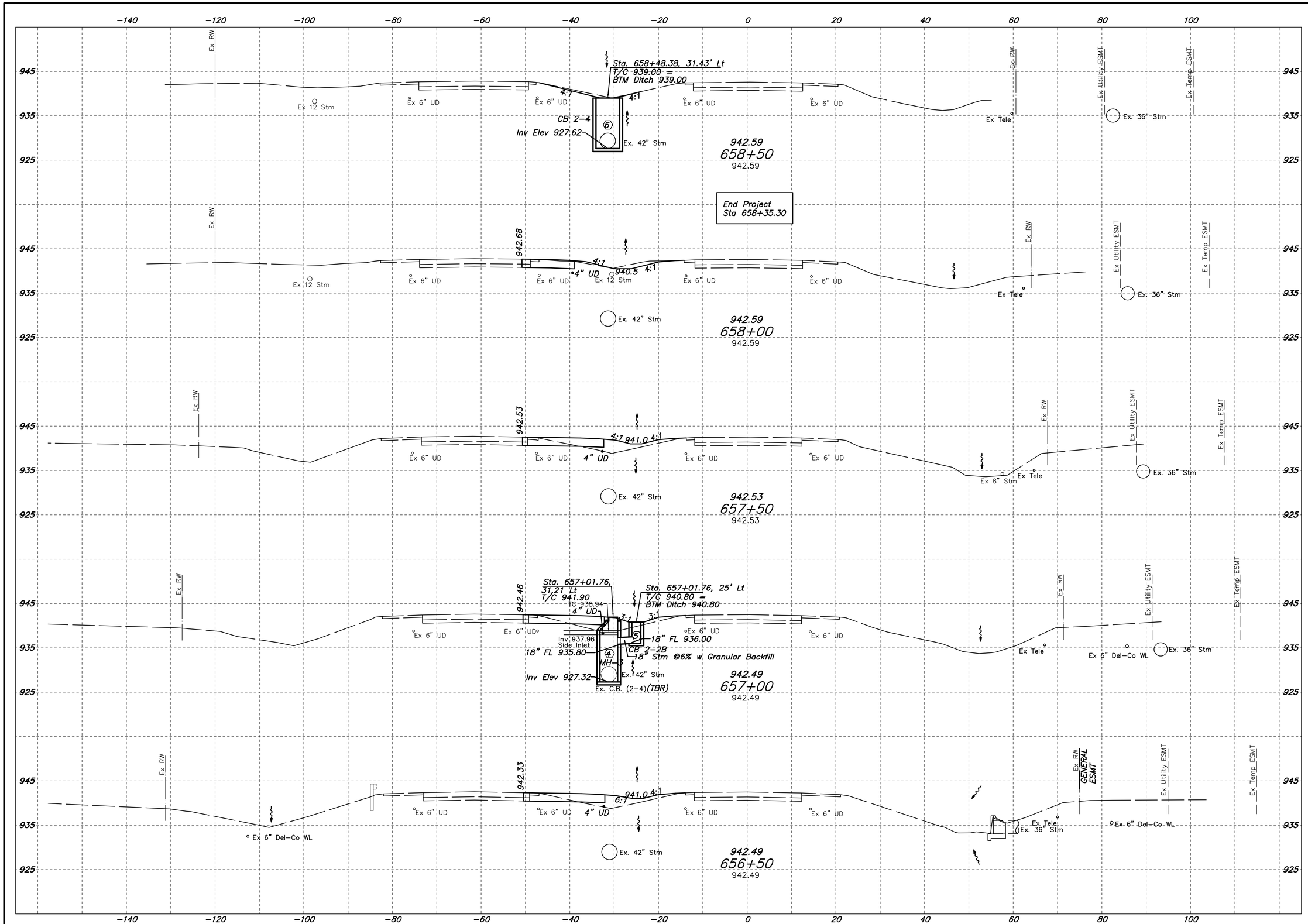

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

CROSS SECTIONS
US-36/SR-37 (East Bound)
STA. 656+50.00 TO STA. 658+50.00

Job No. 20080386
Sheet 32 / 74
Date February 2015
Scale Horiz: 1" = 10'
Vert: 1" = 10'

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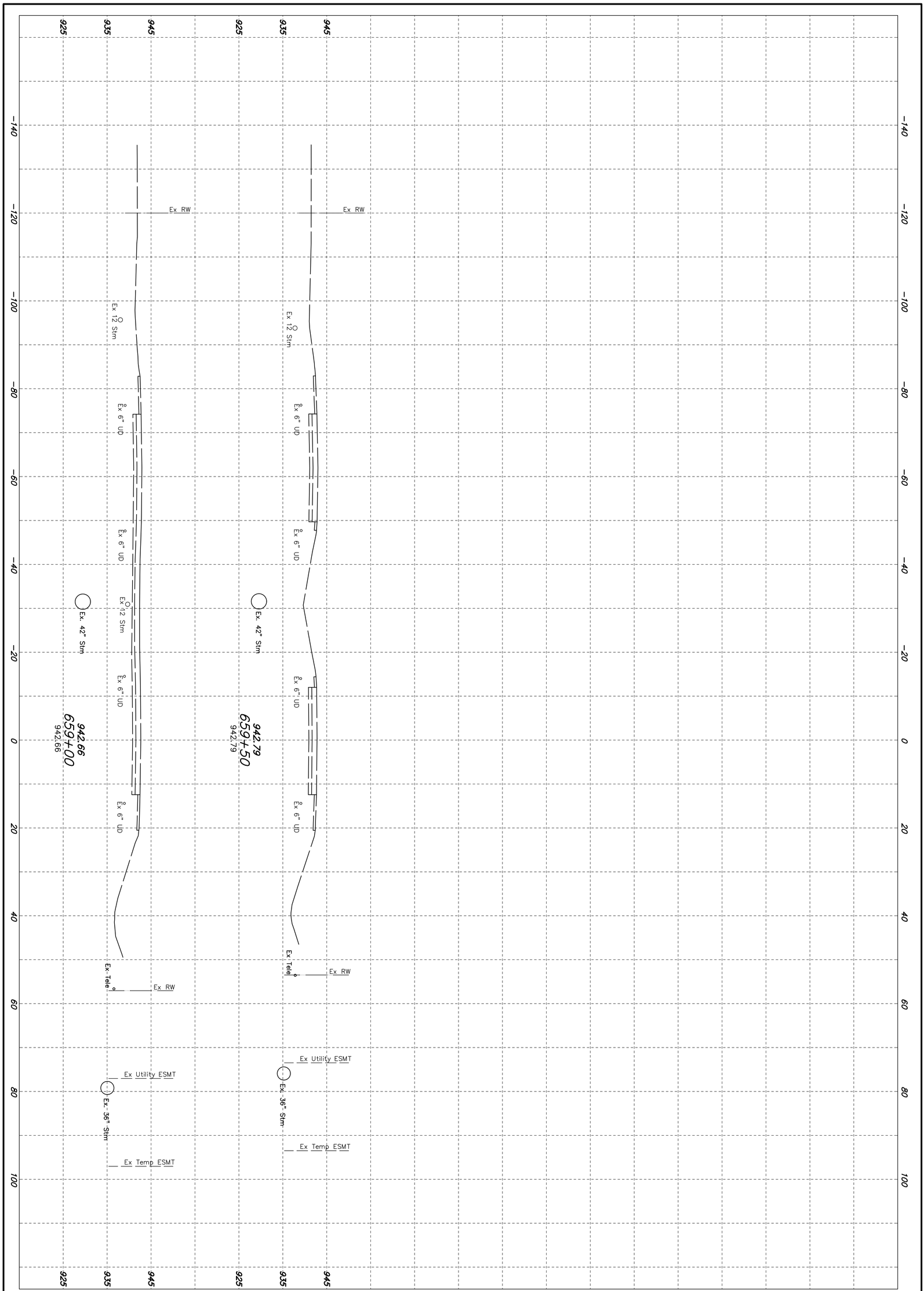

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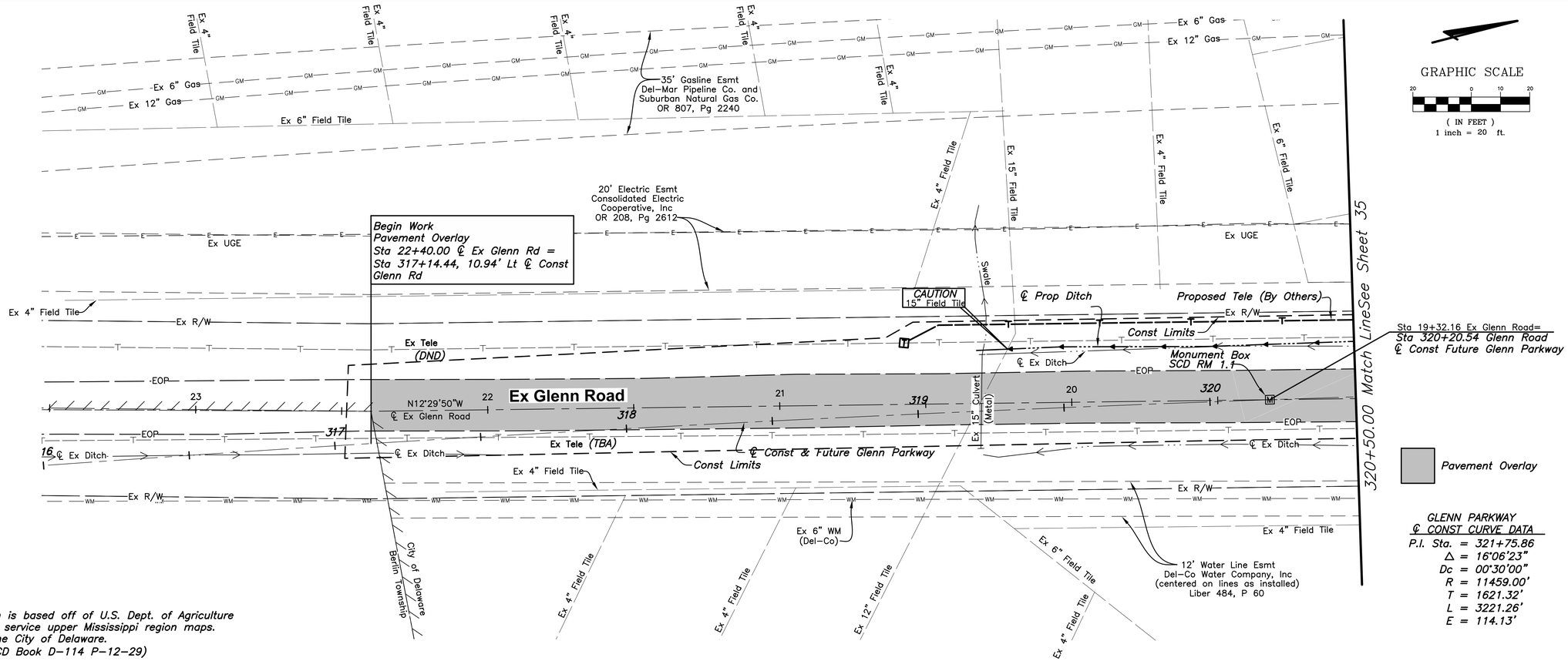
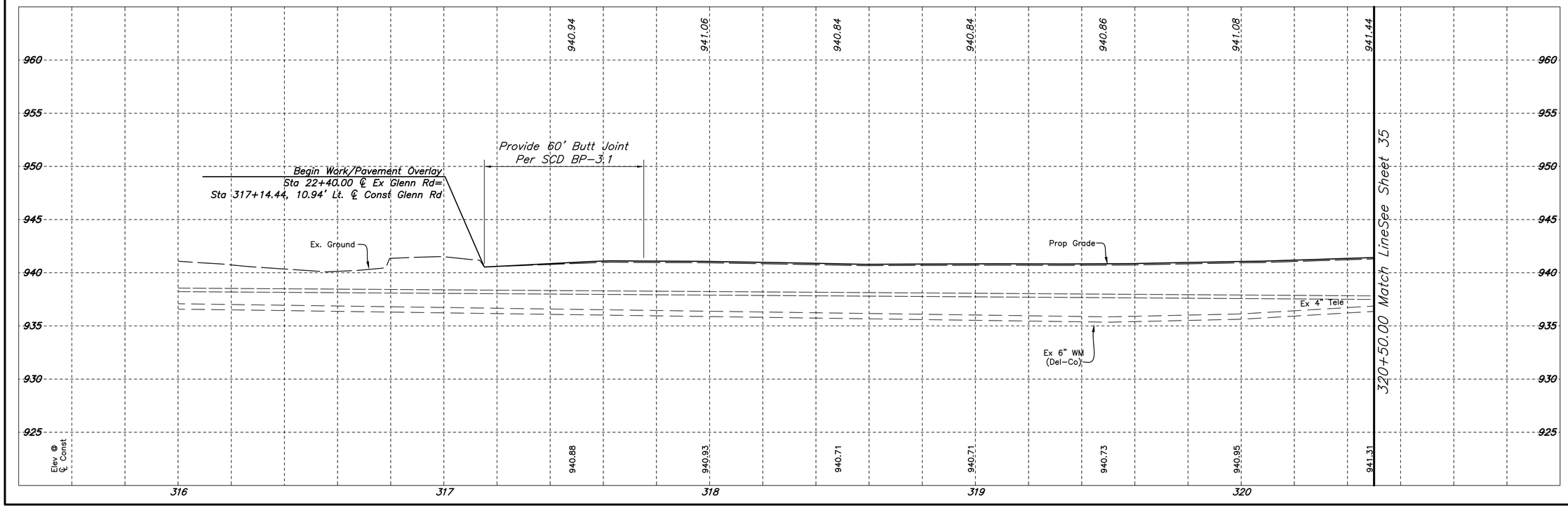
CROSS SECTIONS
US-36/SR-37 (East Bound)
STA. 659+00.00 TO STA. 659+50.00

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

Date	Job No.
February 2015	20080386
Scale: Horiz: 1" = 10' Vert: 1" = 10'	Sheet: 33 / 74



Field tile location is based off of U.S. Dept. of Agriculture soil conservation service upper Mississippi region maps. Received from the City of Delaware. (Delaware Co. SCD Book D-114 P-12-29)



Job No. 20080386

Sheet 34 / 74

Date February 2015

Scale Horiz: 1" = 20'

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

PLAN AND PROFILE
GLENN ROAD RELOCATION
STA. 316+00 TO STA. 320+50

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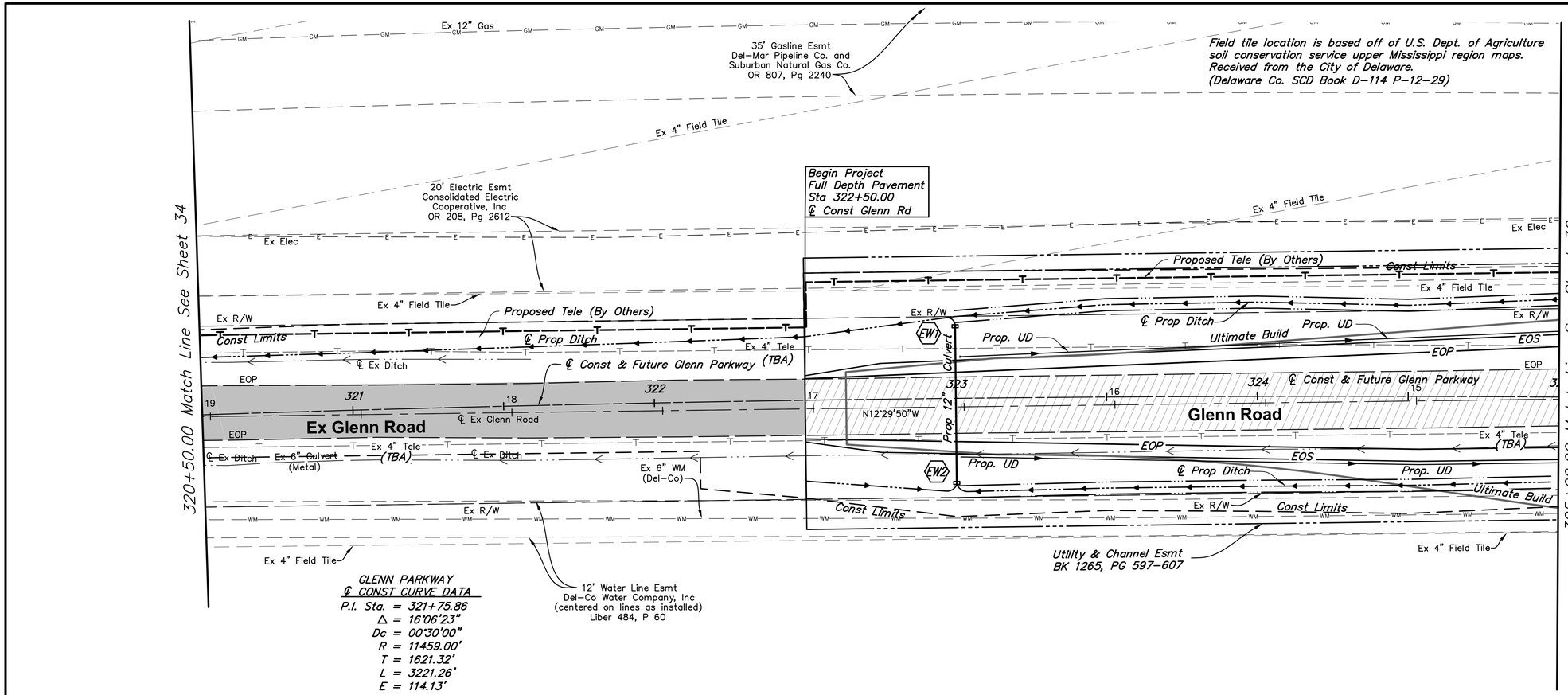

Job No. 20080386 | Sheet 35 / 74

Date February 2015 | Scale Horiz: 1" = 20'

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

PLAN AND PROFILE
GLENN ROAD RELOCATION
STA. 320+50 TO STA. 325+00

REVISIONS

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9 Xrefs: 80386_XER, 80386_STA, 80386_XCL, 80386_XPR, 80386_XEG, 80386_XRW, 80386_XPU, 80386_XPC, sheet

See Sheet 48

325+00.00 Match Line See Sheet 35

330+00.00 Match Line See Sheet 37

Mill Run Crossing

Glenn Road

Future Nutter Farms Lane

General Esmt (BK 1265, PG 597–607)

20' Electric Esmt Consolidated Electric Cooperative, Inc OR 208, Pg 2612

CAUTION Ex. Elec R/W

Ex 4" Field Tile

Ex 12" Stm Sawcut

Ex. CGI (RTG)

Ex. Boulder (TBR)

Ex. Asph Pvmt (TBR)

Ex. Guardrail (TBR)

Const Limits

35' Gasline Esmt Del–Mar Pipeline Co. and Suburban Natural Gas Co. OR 807, Pg 2240

Cut & Cap Field Tile

Proposed Tele (By Others)

Ex Elec (DND)

Temp Esmt

℄ Prop Ditch

Light Pole (Typ)

End C&G Begin Shldr 329+00.16 50.00' Lt.

EOS

EOP

Ultimate Build

℄ Ex Ditch

℄ Const & Future Glenn Parkway

℄ Ex Glenn Road

Ex 4" Tele (TBA)

(TBRBO)

Monument Box SCD RM 1.1

Prop 24" Stm

U.D. TEE

Ex 6" Stm (TBR)

Type F Conduit

CB2–3, As Per Plan

Ex 16" WM

Ex 12" WM

Ex 6" WM (Del–Co)

WV (ATG)

(2) WV Per Record Plan Field Verify

Ex 15" San

Ex 12" Plug & Thrust Block Sta 326+00.24± 40.10' Rt.±

San MH +74.37, 56.69' Rt

Ex 12" San

20' Util Esmt PB 2, PP 734 & 734A

Utility and Channel Esmt (BK 1265, PG 597–607)

20' Temp Const Esmt PB 2, PP 734 & 734A

12' Water Line Esmt Del–Co Water Co., Inc (centered on line as installed) Liber 484, P 60

Sta 327+10.67 ℄ Const & Future Glenn Parkway= ℄ Const Future Nutter Farms Lane

Sta 327+11.59 ℄ Const & Future Glenn Parkway= Sta 42+18.52 ℄ Const Mill Run Crossing

+53.97 15.55' Rt

+57.08 19.67' Lt

329+80.48 16.55' Rt.

Pavement Removed

GRAPHIC SCALE

20 0 10 20

(IN FEET)

1 inch = 20 ft.

GLENN PARKWAY ℄ CONST CURVE DATA

P.I. Sta. = 321+75.86

△ = 16°06'23"

Dc = 00°30'00"

R = 11459.00'

T = 1621.32'

L = 3221.26'

E = 114.13'

Field tile location is based off of U.S. Dept. of Agriculture soil conservation service upper Mississippi region maps. Received from the City of Delaware. (Delaware Co. SCD Book D–114 P–12–29)

Prop. Profile Grade @ ℄ Construction & Future Glenn Road

Ex. Elev. @ ℄ Const.

942.29 942.37 942.45 942.53 942.60 942.68 942.76 942.83 942.91 942.98 943.05 943.12 943.19 943.27 943.34 943.38 943.40 943.39 943.33 943.25 943.15

955 950 945 940 935 930 925

325 326 327 328 329 330

GRAPHIC GRADING SEE PAVEMENT DETAILS SHEETS 52–53

Prop. CB 2–3, A.P.P. TC=940.60

Prop. ℄ Profile Grade

Future Prop. ℄ Profile Grade

Ex. ℄ Const.

San MH TC 941.80

HIGH POINT ELEV = 943.40
HIGH POINT STA = 329+00
PVI STA = 329+00
PVI ELEV = 943.55
A.D. = –0.80
K = 187.50
150.00' VC

BVCS: 328+25
BVCE: 943.25

EVCS: 329+75
EVCE: 943.25

Ex 6" WM (Del–Co)

Ex 12" Plug & Thrust Block Sta 326+00.24± 40.10' Rt.±

Continue Uncl. UD Left +50, ℄ 938.94

End/Begin Uncl. UD Rt. Outlet to 6" Cond. Type F +65, ℄ 938.85

24" (W) Inv. 932.13

End Uncl. UD Left Connect to Mill Run Crossing UD +88, ℄ 938.77

End Uncl. UD Right Begin BP UD Right +00, ℄ 940.49

Ex 16" WM West

Begin BP UD Left Connect to Struc #2 +48.50, ℄ 939.50

Continue BP UD Left +85.63, ℄ 940.15

End BP UD Right +99, ℄ 941.28

End BP UD Left +99, ℄ 940.58

Begin BP UD Right +01, ℄ 941.28

Begin BP UD Left +01, ℄ 940.58

Ex 12" WM

REVISIONS

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CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

PLAN AND PROFILE
GLENN ROAD RELOCATION
STA. 325+00 TO STA. 330+00

Job No. 20080386

Sheet 36 / 74

Date February 2015

Scale Horiz: 1" = 20'

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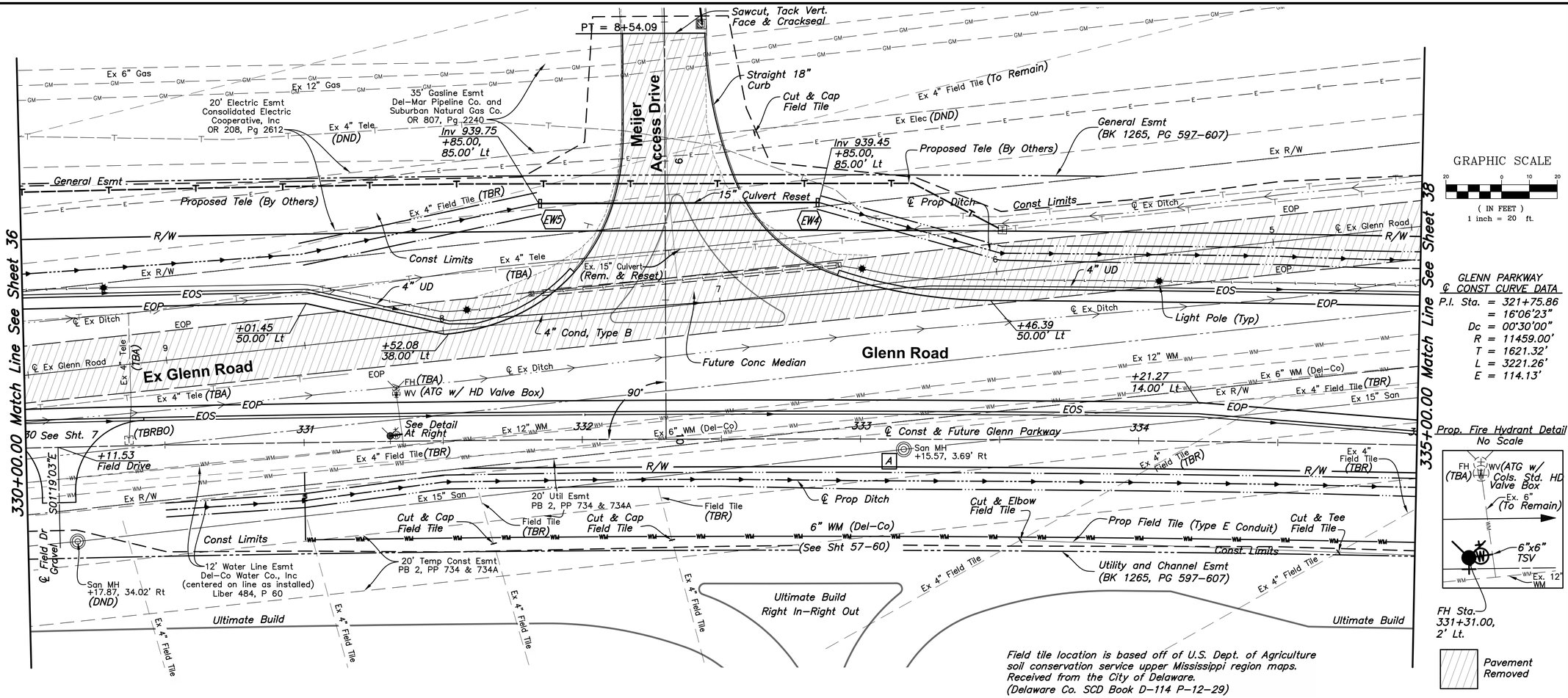


GRAPHIC SCALE

20 0 10 20

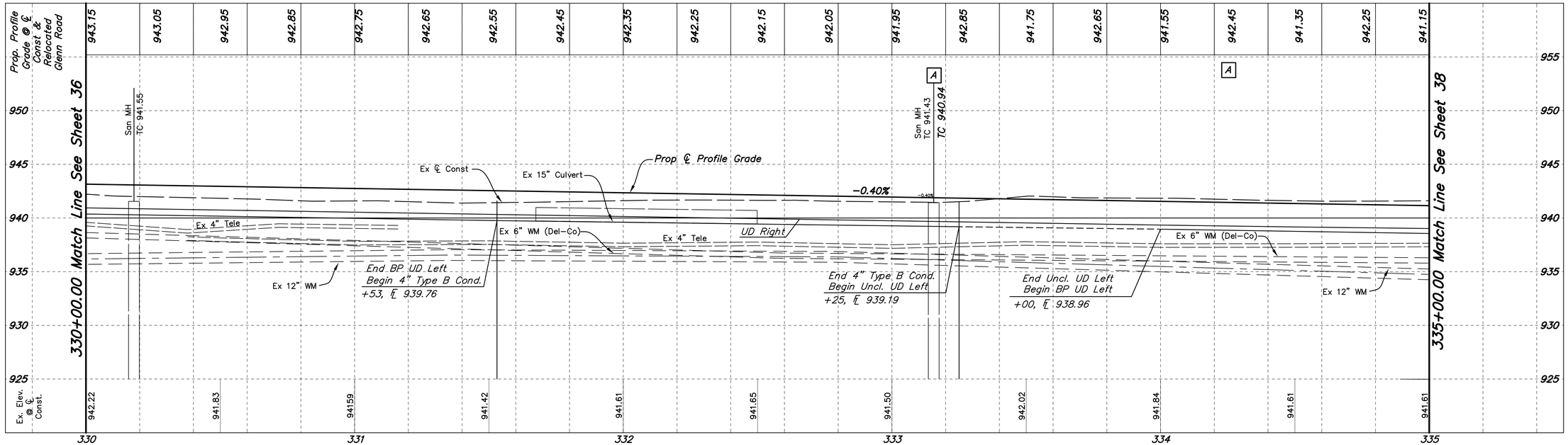
(IN FEET)
1 inch = 20 ft.

GLENN PARKWAY
℄ CONST CURVE DATA
P.I. Sta. = 321+75.86
= 16°06'23"
Dc = 00°30'00"
R = 11459.00'
T = 1621.32'
L = 3221.26'
E = 114.13'

Prop. Fire Hydrant Detail
No Scale

FH Sta. 331+31.00, 2' Lt.

Pavement Removed



CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

PLAN AND PROFILE
GLENN ROAD RELOCATION
STA. 330+00 TO STA. 335+00

Job No. 20080386
Sheet 37 / 74
Date February 2015
Scale Horiz: 1" = 20'

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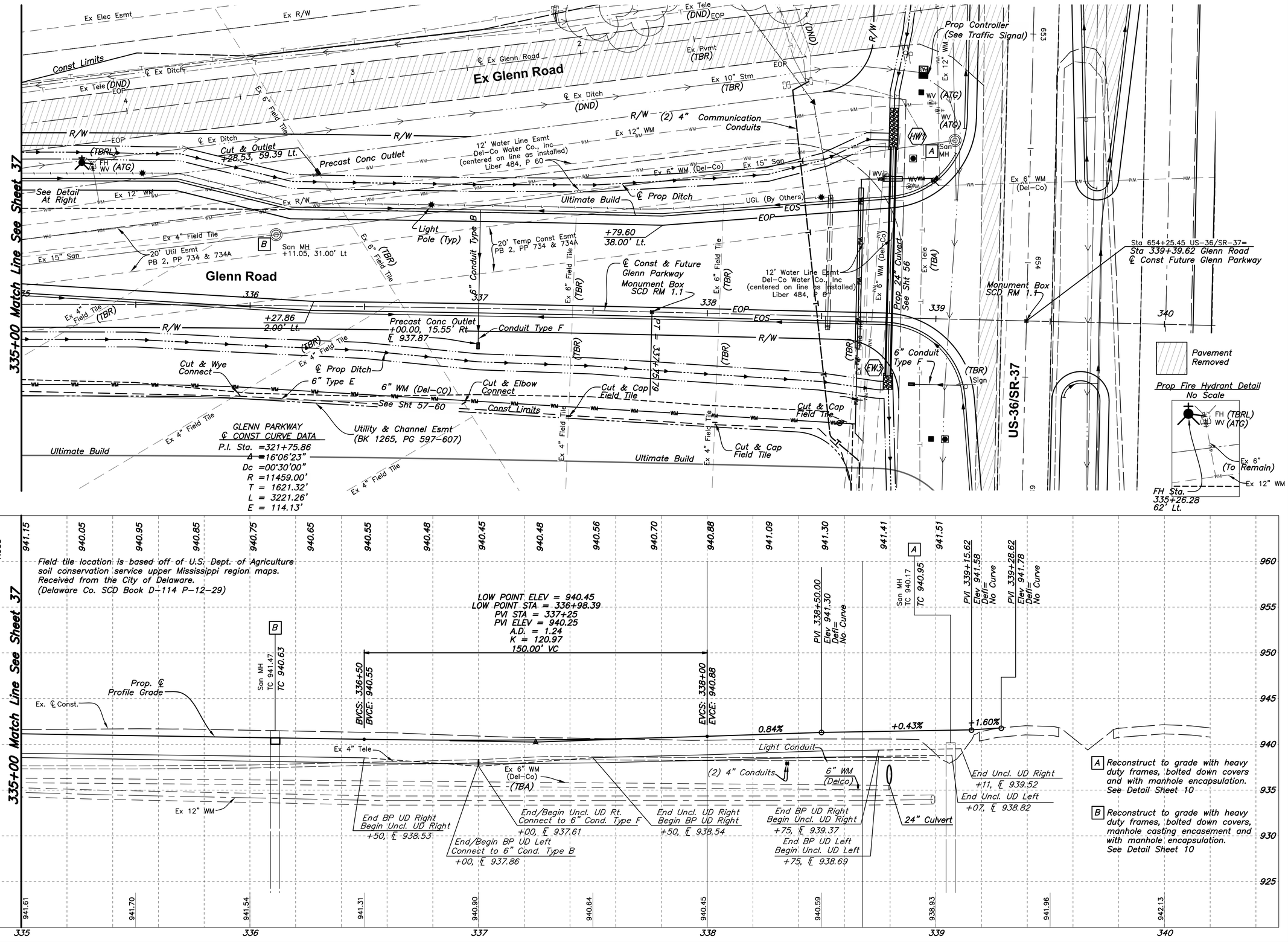

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

Job No. 20080386
Sheet 38 / 74
Date February 2015
Scale Horiz: 1" = 20'

PLAN AND PROFILE
GLENN ROAD RELOCATION
STA. 335+00 TO STA. 340+00

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MARK	DATE	DESCRIPTION

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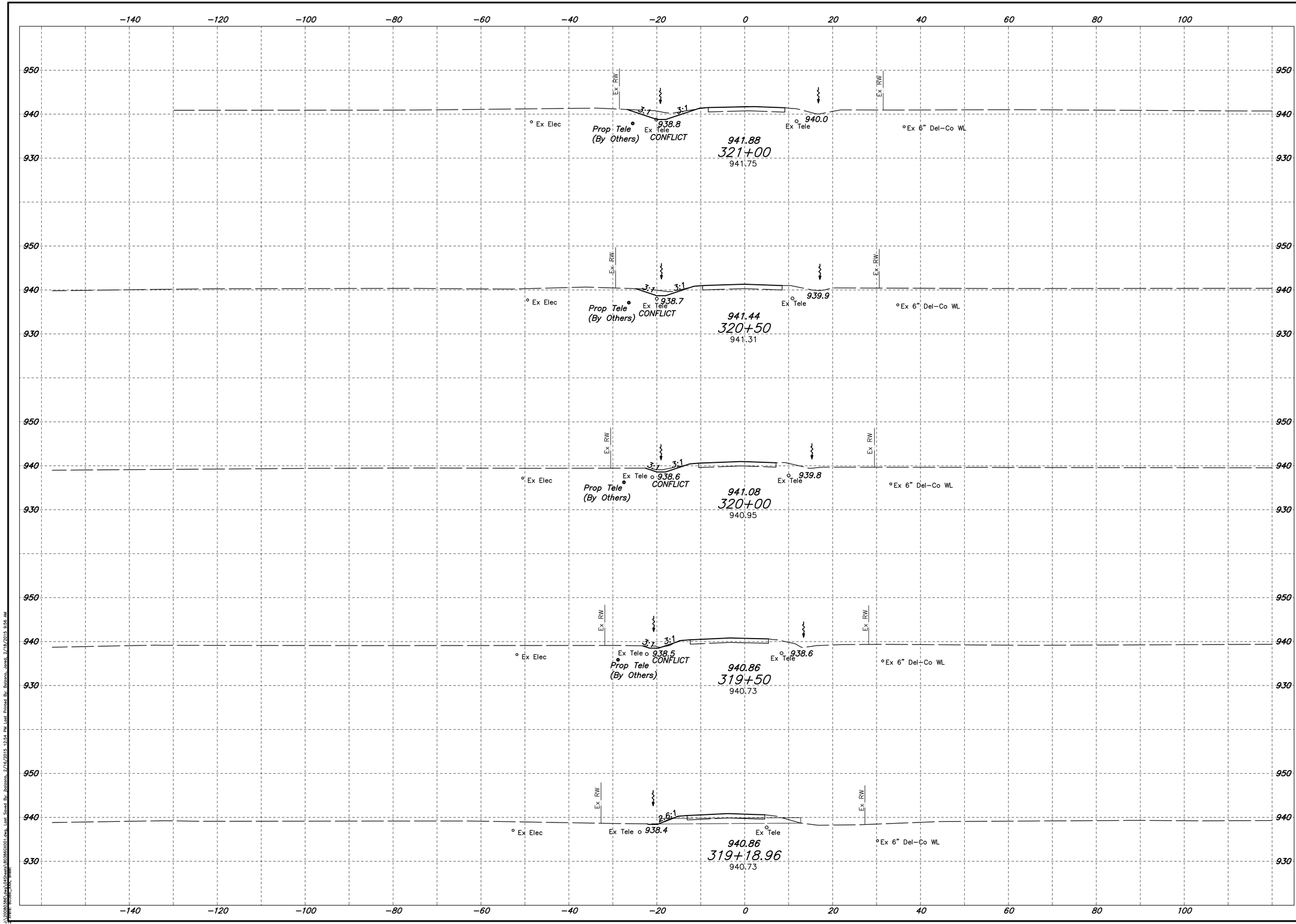

Job No. 20080386

Sheet 39 / 74

Date February 2015

Scale Horiz: 1" = 10' Vert: 1" = 10'

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

CROSS SECTIONS
GLENN ROAD RELOCATION
STA. 319+20.96 TO STA. 321+00.00

EMH&T
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Engineers • Surveyors • Planners • Scientists
5500 New Albany Road, Columbus, OH 43054
Phone: 614.775.4500 Fax: 614.775.4800

REVISIONS

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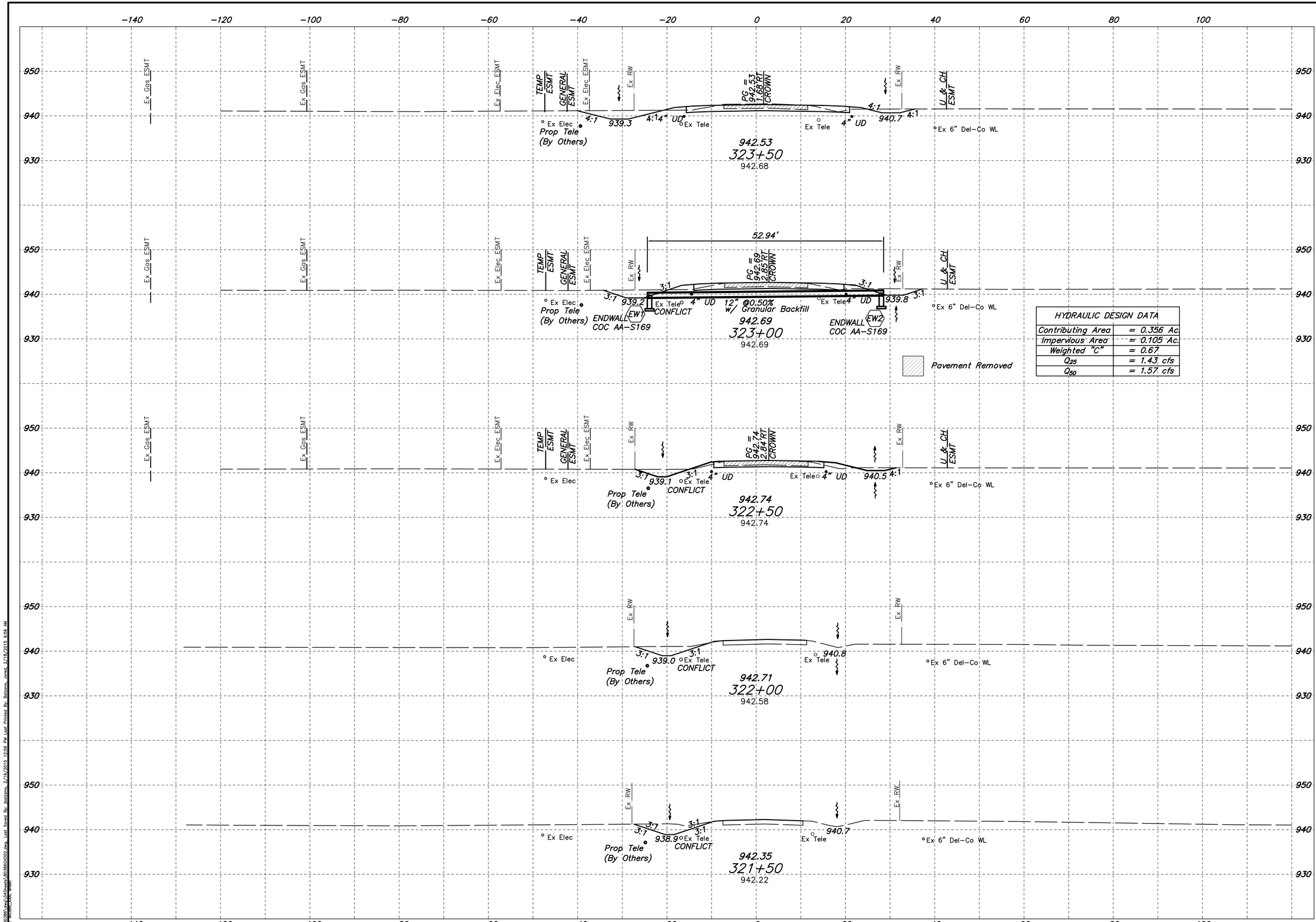

HYDRAULIC DESIGN DATA	
Contributing Area	= 0.356 Ac.
Impervious Area	= 0.105 Ac.
Weighted "C"	= 0.67
Q_{25}	= 1.43 cfs
Q_{50}	= 1.57 cfs

Job No. 20080386

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Date February 2015

Scale Horiz: 1" = 10' Vert: 1" = 10'

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

CROSS SECTIONS
GLENN ROAD RELOCATION
STA. 321+50.00 TO STA. 323+50.00

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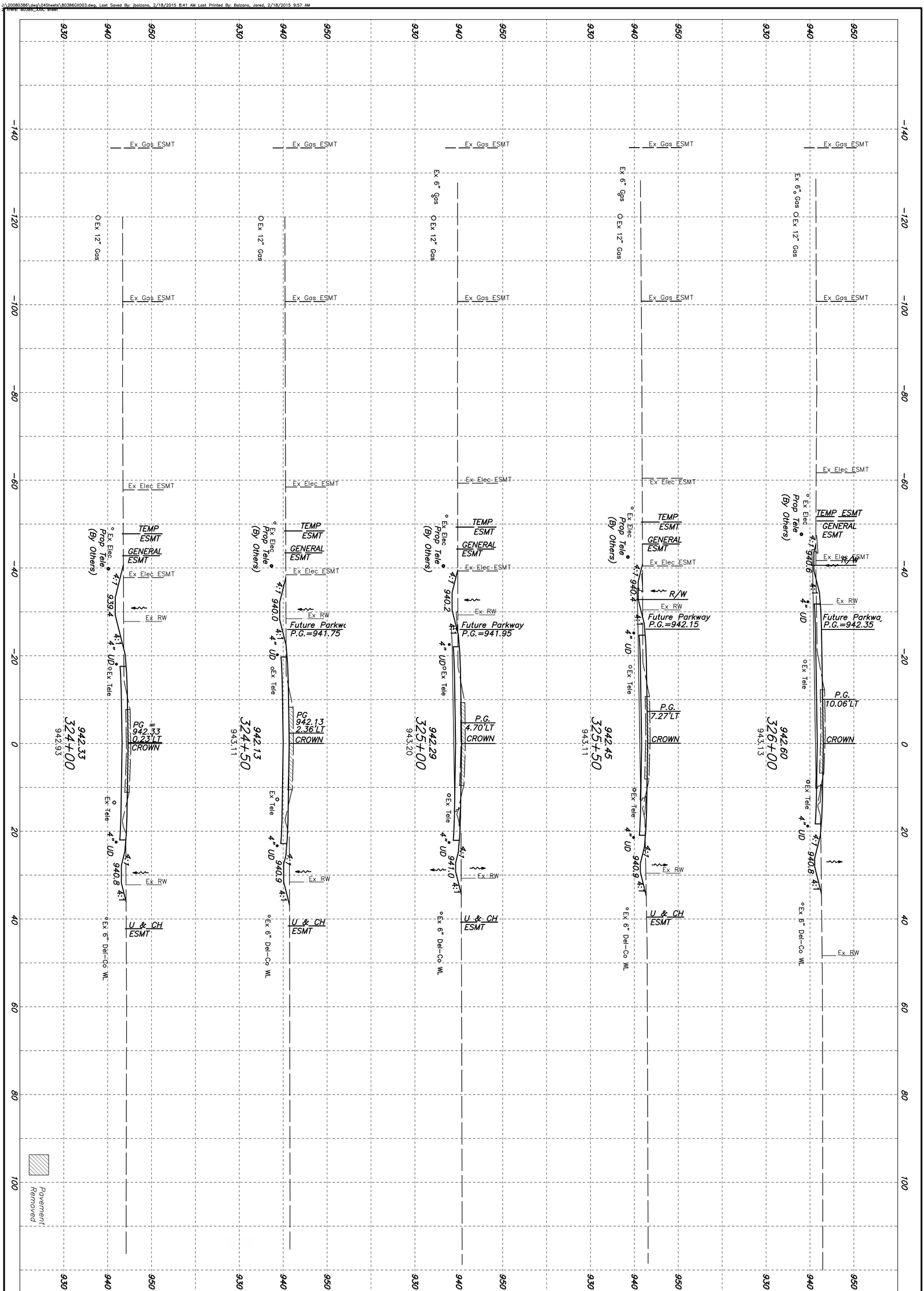

REVISIONS		
MARK	DATE	DESCRIPTION

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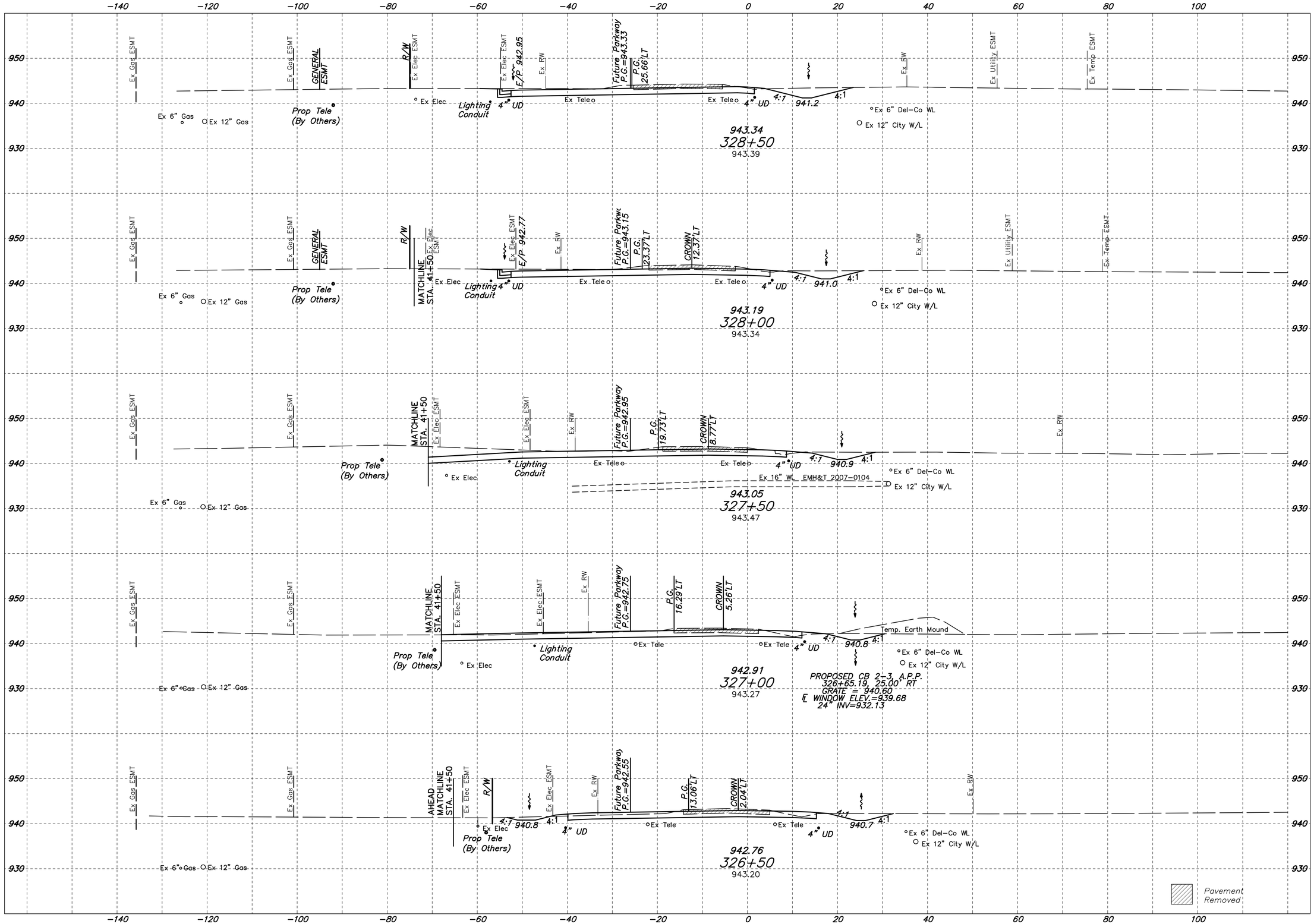
CROSS SECTIONS
GLENN ROAD RELOCATION
STA. 324+00.00 TO STA. 326+00.00

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

Date	Job No.
February 2015	20080386
Scale: Horiz: 1" = 10' Vert: 1" = 10'	Sheet: 41 / 74



CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

CROSS SECTIONS
GLENN ROAD RELOCATION
STA. 326+50.00 TO STA. 328+50.00

Job No. 20080386
Date February 2015
Scale Horiz: 1" = 10' Vert: 1" = 10'
Sheet 42 / 74

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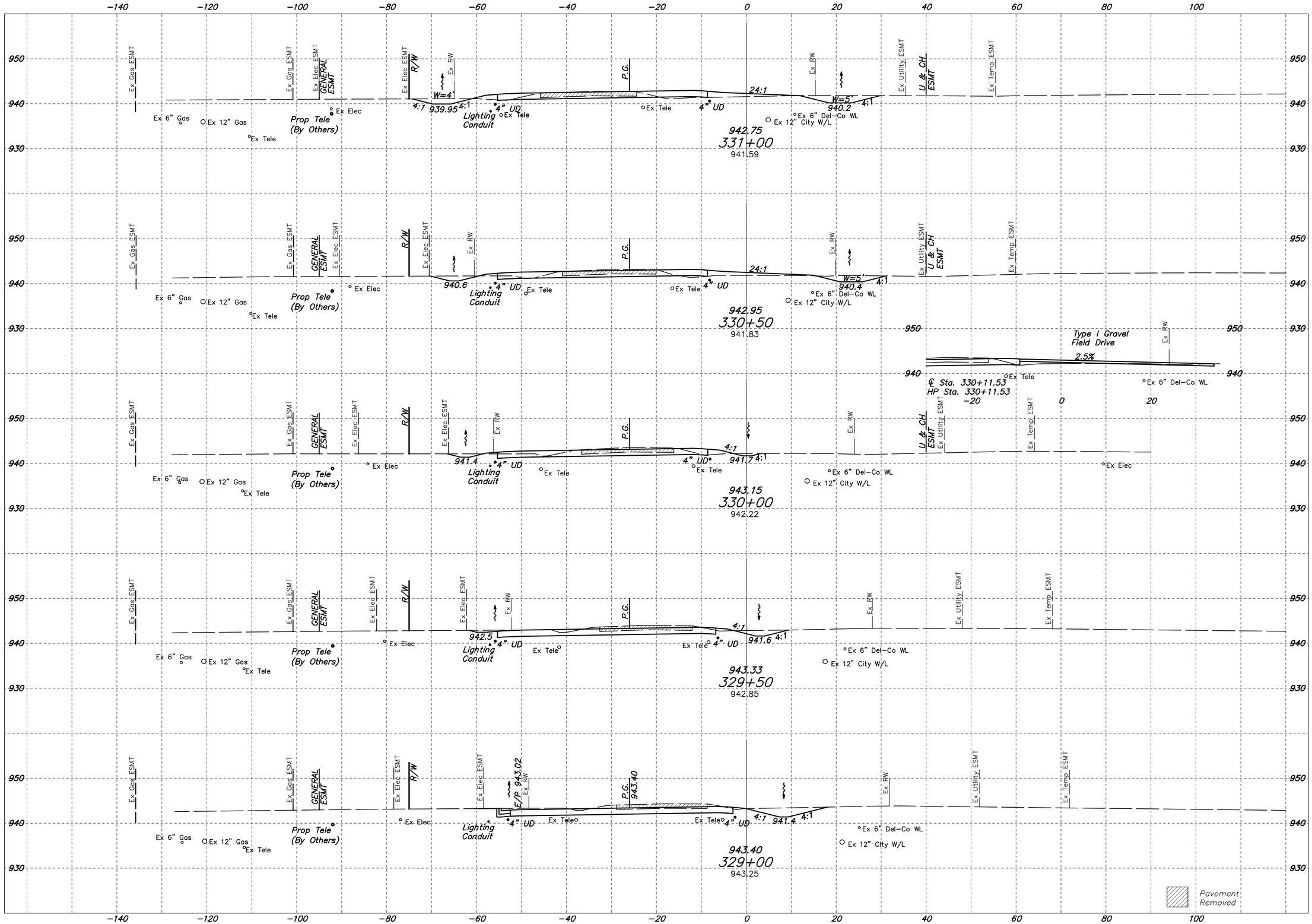
MARK	DATE	DESCRIPTION



CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

CROSS SECTIONS
GLENN ROAD RELOCATION
STA. 329+00.00 TO STA. 331+00.00

Job No. 20080386
Date February 2015
Scale Horiz: 1" = 10' Vert: 1" = 10'
Sheet 43 / 74

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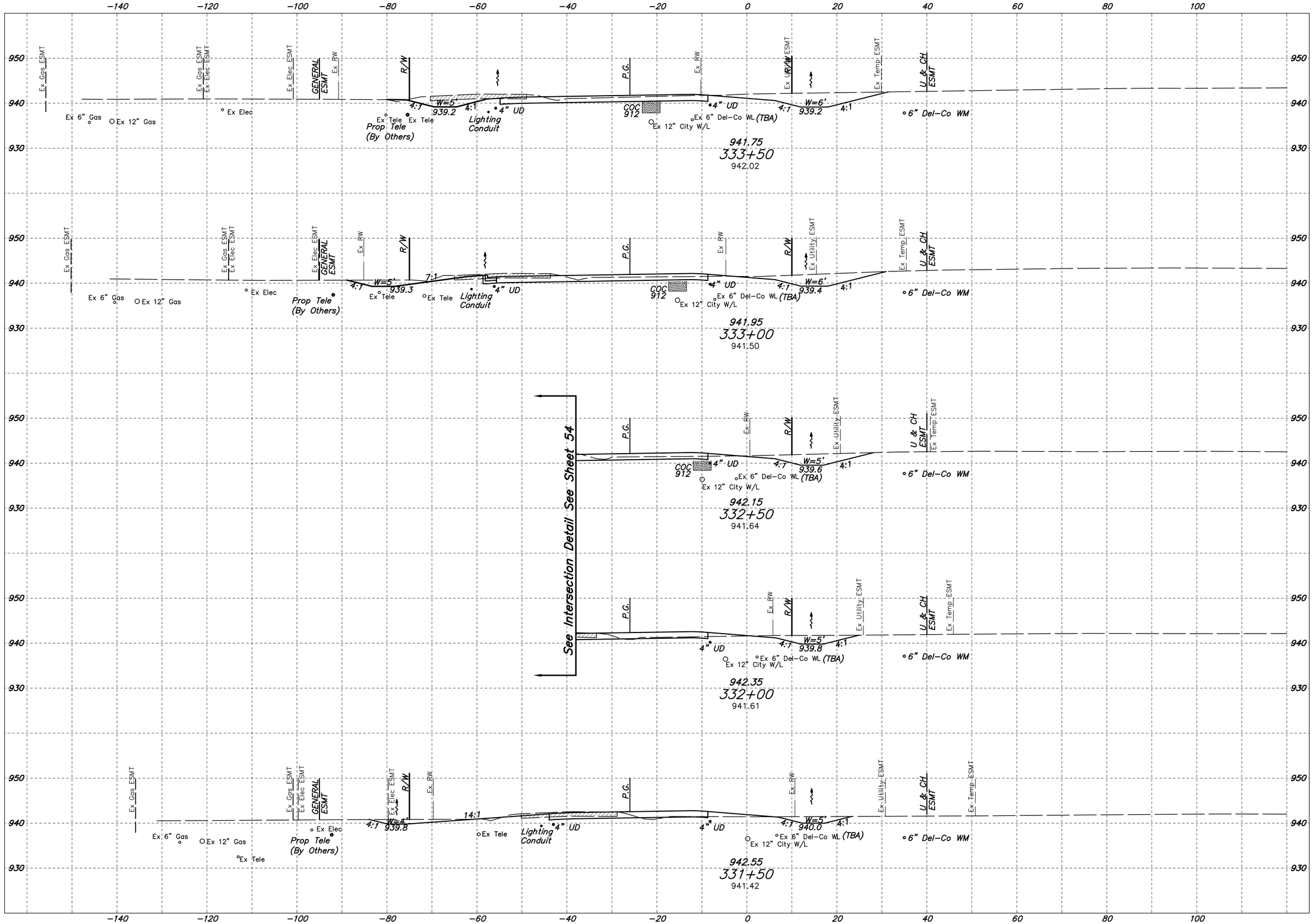

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

CROSS SECTIONS
GLENN ROAD RELOCATION
STA. 331+50.00 TO STA. 333+50.00

Job No. 20080386
Date February 2015
Scale Horiz: 1" = 10' Vert: 1" = 10'
Sheet 44 / 74

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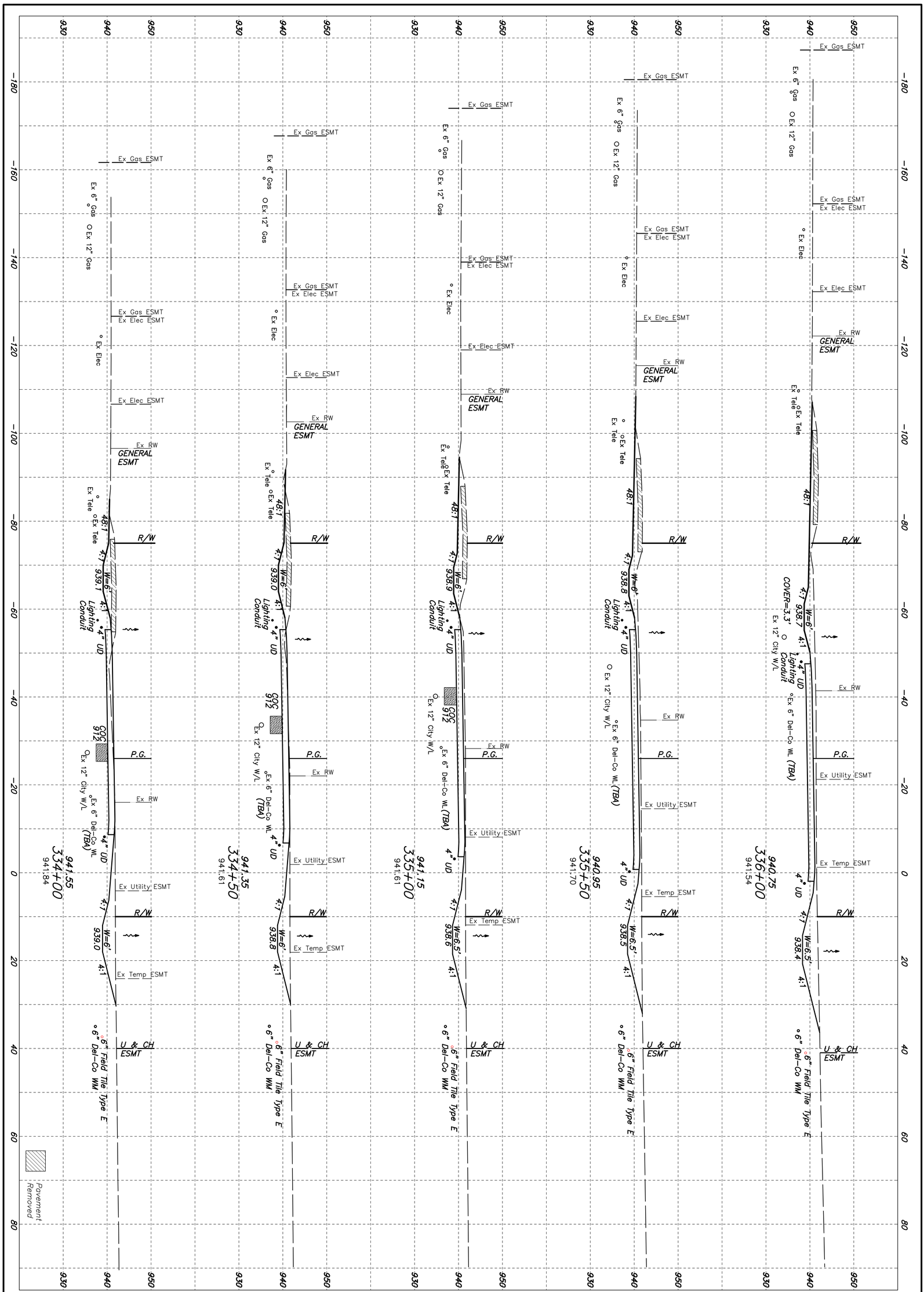

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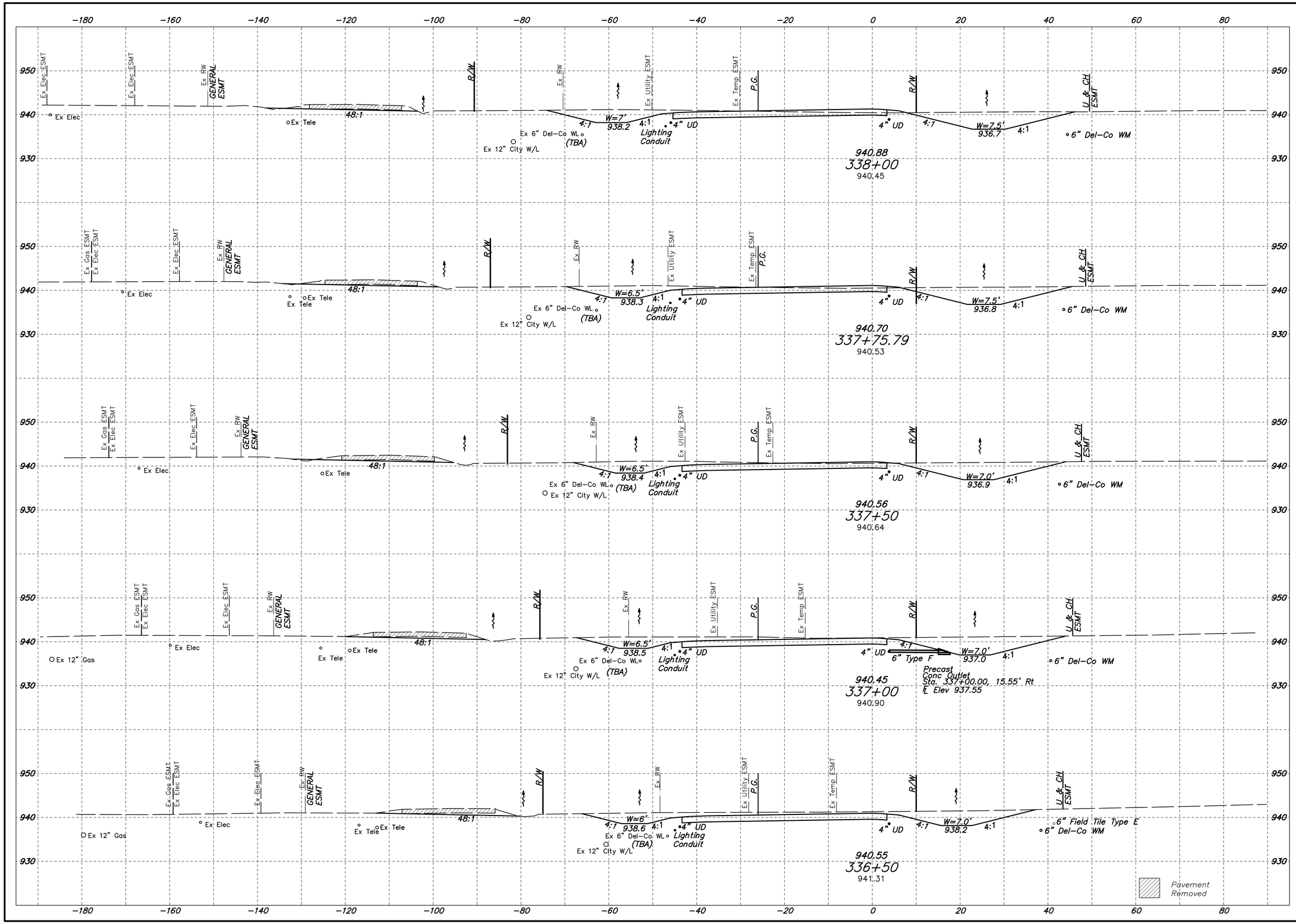
CROSS SECTIONS
GLENN ROAD RELOCATION
STA. 334+00.00 TO STA. 336+00.00

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN CROSSING IMPROVEMENTS

Date	Job No.
February 2015	20080386
Scale: Horiz: 1" = 10' Vert: 1" = 10'	Sheet: 45 / 74



CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

CROSS SECTIONS
GLENN ROAD RELOCATION
STA. 336+50.00 TO STA. 338+00.00

Job No. 20080386
Date February 2015
Scale Horiz: 1" = 10' Vert: 1" = 10'
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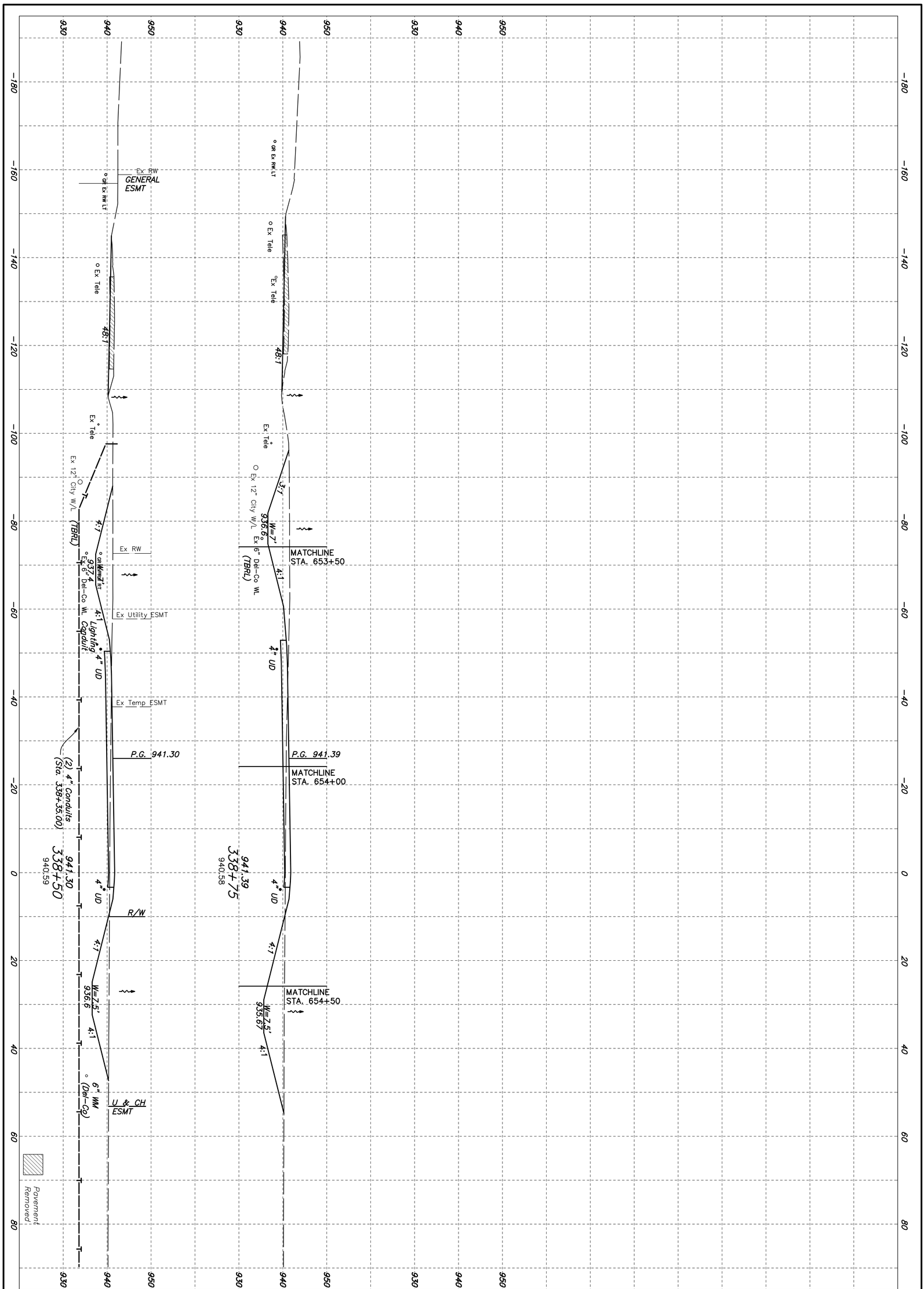

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MARK	DATE	DESCRIPTION

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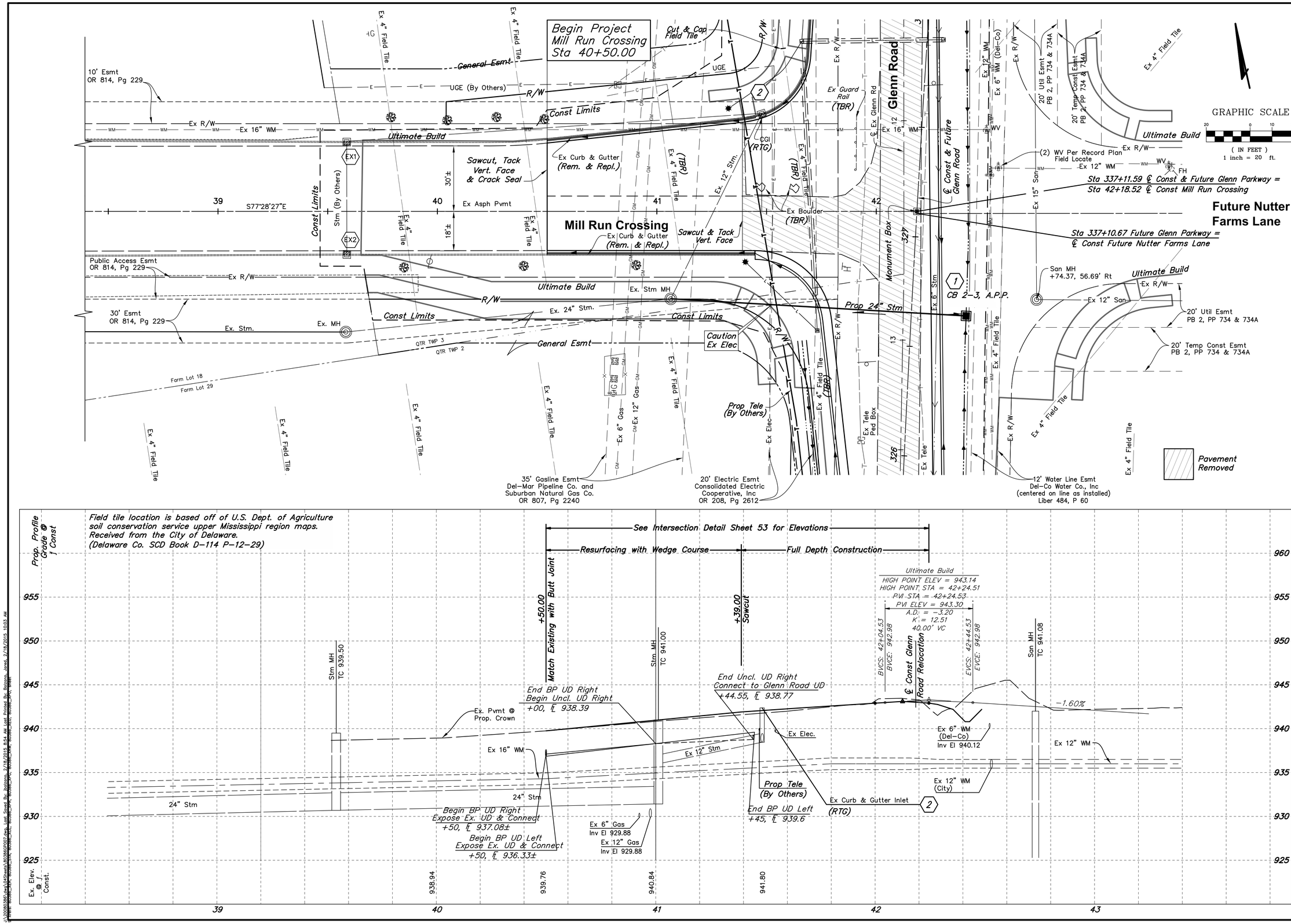
CROSS SECTIONS
GLENN ROAD RELOCATION
STA. 338+50.00 TO STA. 338+75.00

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN CROSSING IMPROVEMENTS

Date	Job No.
February 2015	20080386
Scale: Horiz: 1" = 10' Vert: 1" = 10'	Sheet: 47 / 74



CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN CROSSING IMPROVEMENTS

PLAN AND PROFILE
MILL RUN CROSSING
STA. 38+50 TO STA. 42+18.52

Job No. 20080386
Date February 2015
Sheet 48 / 74
Scale Horiz: 1" = 20'

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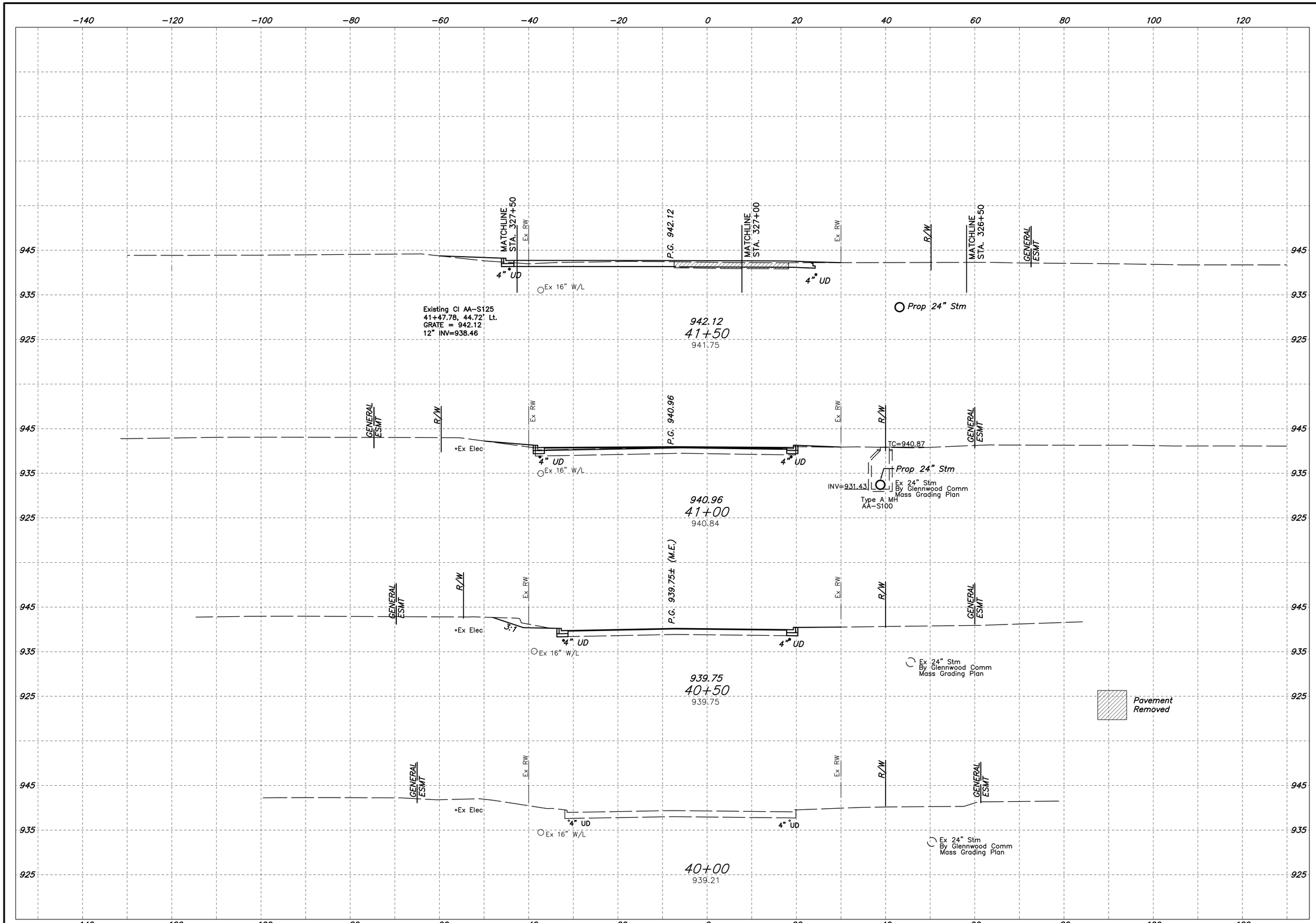

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Job No. 20080386
Sheet 49 / 74

Date February 2015
Scale Horiz: 1" = 10'
Vert: 1" = 10'

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

CROSS SECTIONS
MILL RUN CROSSING
STA. 40+00.00 TO STA. 41+50.00

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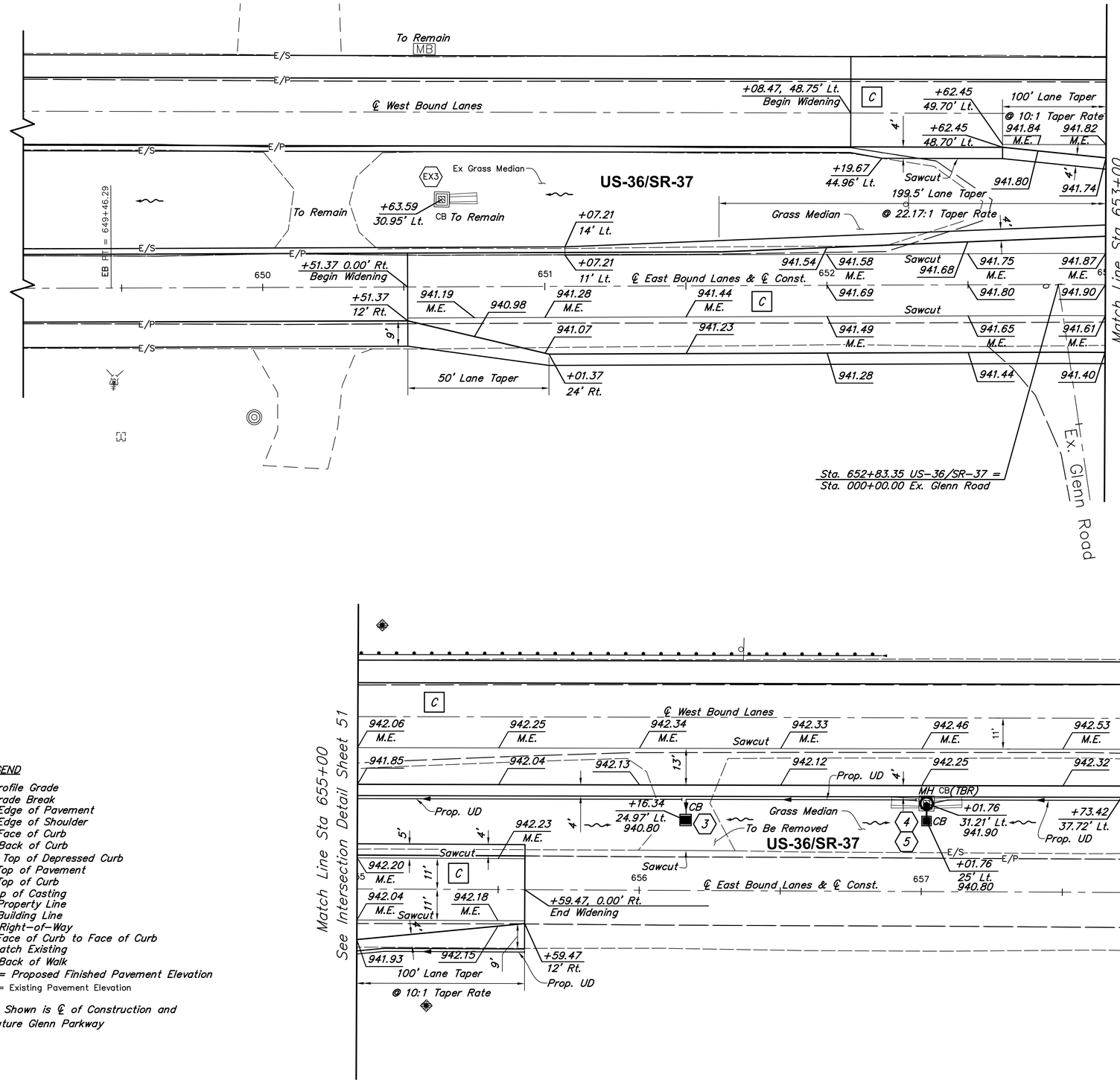
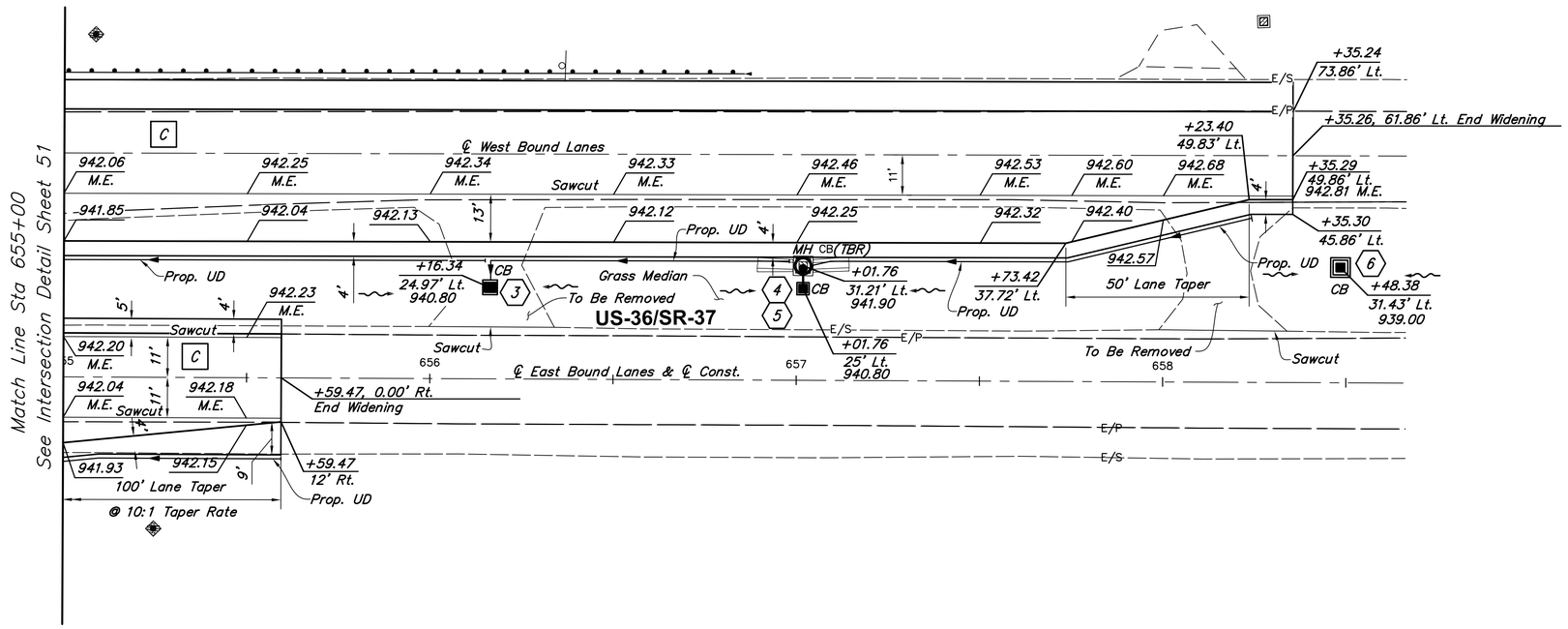


GRAPHIC SCALE

20 0 10 20

(IN FEET)
1 inch = 20 ft.

C Elevations are based on topographic survey performed in 2008. In 2012, existing pavement was planed and resurfaced. Contractor to field verify existing elevations and notify the City of discrepancies. Design intent is as shown on the typical sections.



LEGEND

PG = Profile Grade
GB = Grade Break
E/P = Edge of Pavement
E/S = Edge of Shoulder
F/C = Face of Curb
B/C = Back of Curb
T/DC = Top of Depressed Curb
T/P = Top of Pavement
T/C = Top of Curb
TC = Top of Casting
P/L = Property Line
B/L = Building Line
R/W = Right-of-Way
F/F = Face of Curb to Face of Curb
ME = Match Existing
B/W = Back of Walk
XXX.XX = Proposed Finished Pavement Elevation
(XXX.XX) = Existing Pavement Elevation

Note: ℄ Shown is ℄ of Construction and Future Glenn Parkway

CITY OF DELAWARE, DELAWARE COUNTY, OHIO
STREET IMPROVEMENT PLAN
FOR
GLENN ROAD / US-36 TO MILL RUN
CROSSING IMPROVEMENTS

PAVEMENT DETAIL
US-36/SR-37

Job No. 20080386
Sheet 50 / 74
Date February 2015
Scale Horiz. 1" = 20'

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