BARRINGTON RD
OLDE SALEM RD
SPRINGINSGUTH RD
RODENBURG RD
WRIGHT BLVD
MITCHELL BLVD
ROSELLE RD
PLUM GROVE RD
MEACHAM RD
ROHLWING RD (IL–53)
I–290 /IL–53
ARLINGTON HEIGHTS RD
WOOD DALE RD
BUSSE (IL–83)
ELMHURST RD
IL–83 N/E OAKTON ST
I–90
HIGGINS RD/IL–72
TOUHY AVE
OLD HIGGINS RD
UNION PACIFIC R.R.

West Branch DuPage River
Higgins Creek
Willow Creek
Willow Creek
Salt Creek
Spring Brook
Meacham Creek
Addison Creek
Bensenville Ditch

IRVING PARK ROAD (IL–19)
MERCURY DR
WISE RD
MORSE AVE
ALBION AVE
NERGE RD
DEVON AVE
BIESTERFIELD RD
NERGE RD
DEVON AVE
PARK BLVD
CARL BLVD
LIVELY BLVD
DILLON DR
PAN AM BLVD
SUPREME DR
THOMAS DR
YORK RD
COOK
DuPAGE
CENTRAL AVE
LAKE ST
MITTEL DR
EDGEWOOD AVE
SEE SHEET KEY2
DuPAGE
COOK

ELGIN O'HARE EXPY
GARY AVE
MEDINAH RD
PROSPECT AVE

N

0 2000′ 4000′

FILE NAME = DIEOWB-sht-pr-drain-KEYI_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 4000′	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
KEY PLAN N–S
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	1
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-KEYI_FullBuild.dgn
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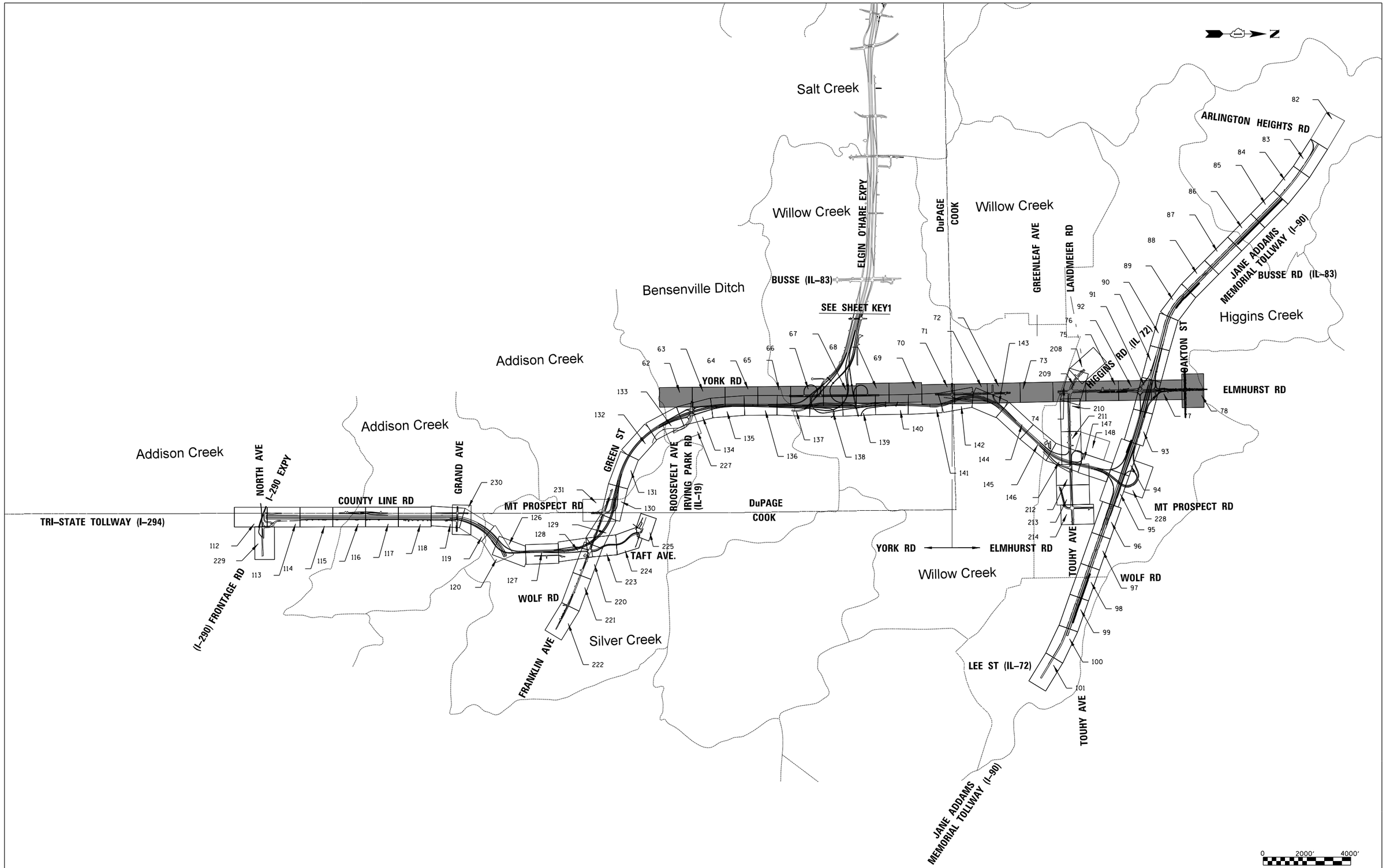

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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
KEY PLAN N–S
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	2
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-KEY2_FullBuild.dgn
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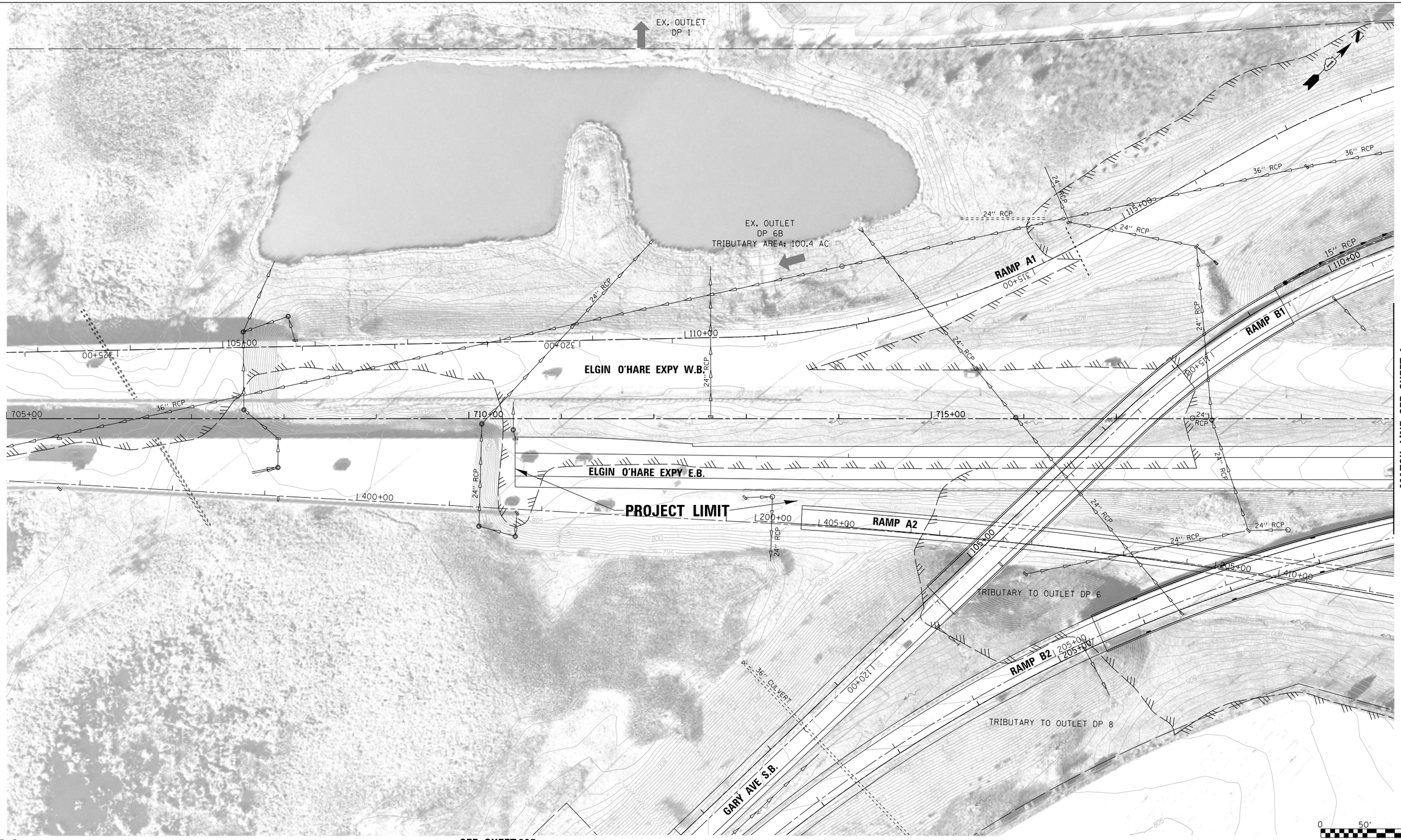


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

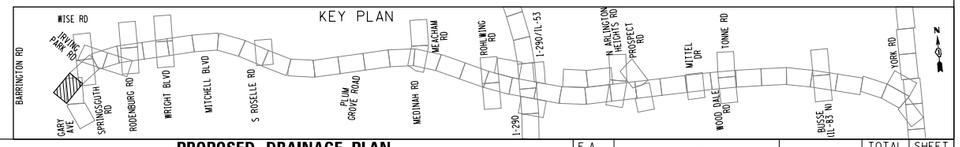
	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

SEE SHEET 205

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	3
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-EOP2_FullBuild.dgn
9:48:21 AM

SEE SHEET 200

SEE SHEET 202

RAMP A1

RAMP B1

RAMP B2

RAMP A2

PROJECT LIMIT

ELGIN O'HARE EXPY W.B.

ELGIN O'HARE EXPY E.B.

WB FRONTAGE RD – BA

EB FRONTAGE RD – BA

SPRINGINSGUTH RD

VILLAGE OF SCHAUMBURG

EX. OUTLET
DP 6A

INV=788.72
INV=(788.72)

INV=824.20

INV=822.30

INV=802.00

INV=788.50

INV=(789.19)
INV=789.19

OUTLET CONTROL
STRUCTURE
INV=797.00
6" RESTRICTOR

DETENTION SITE: D1-W
AVAILABLE DETENTION: 0.71 AC-FT
HWL=802.0 NWL=797.0
BERM=803.0
DOES NOT DRAWDOWN WITHIN 48 HRS

EOH_1
D.A. = 67.3 Ac

MATCH LINE SEE SHEET 3

MATCH LINE SEE SHEET 5

SEE SHEET 200

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

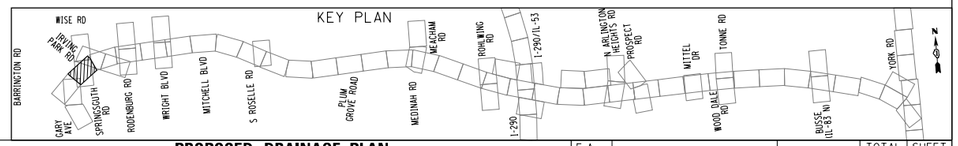
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S) AND A NEW PIPE CULVERT.

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	4
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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9:48:39 AM

SEE SHEET 202

MATCH LINE SEE SHEET 4

MATCH LINE SEE SHEET 6

INV=800.00

INV=802.00

OUTLET CONTROL STRUCTURE
INV=797.00
6" RESTRICTOR

INV=805.00

DETENTION SITE: D1-N
AVAILABLE DETENTION: 2.05 AC-FT
HWL=802.0 NWL=797.0
BERM=805.0
DOES NOT DRAWDOWN WITHIN 48 HRS

ELGIN O'HARE EXPY W.B.

ELGIN O'HARE EXPY E.B.

INV = 811.41

FRONTAGE RD

RAMP A4

INV=820.20

INV=807.00

OUTLET CONTROL STRUCTURE
INV=800.00
6" RESTRICTOR

DETENTION SITE: D1-S
AVAILABLE DETENTION: 0.93 AC-FT
HWL=805.0 NWL=800.0
BERM=808.0
DRAWDOWN WITHIN 48 HRS

TRIBUTARY TO OUTLET DP 6

W IRVING PARK RD/IL-19

RAMP A3

INV=818.20

FRONTAGE RD

TRIBUTARY TO OUTLET DP 4

EB FRONTAGE RD - BA

SEE SHEET 202

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

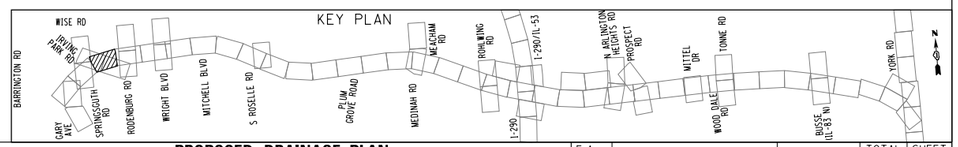
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	5
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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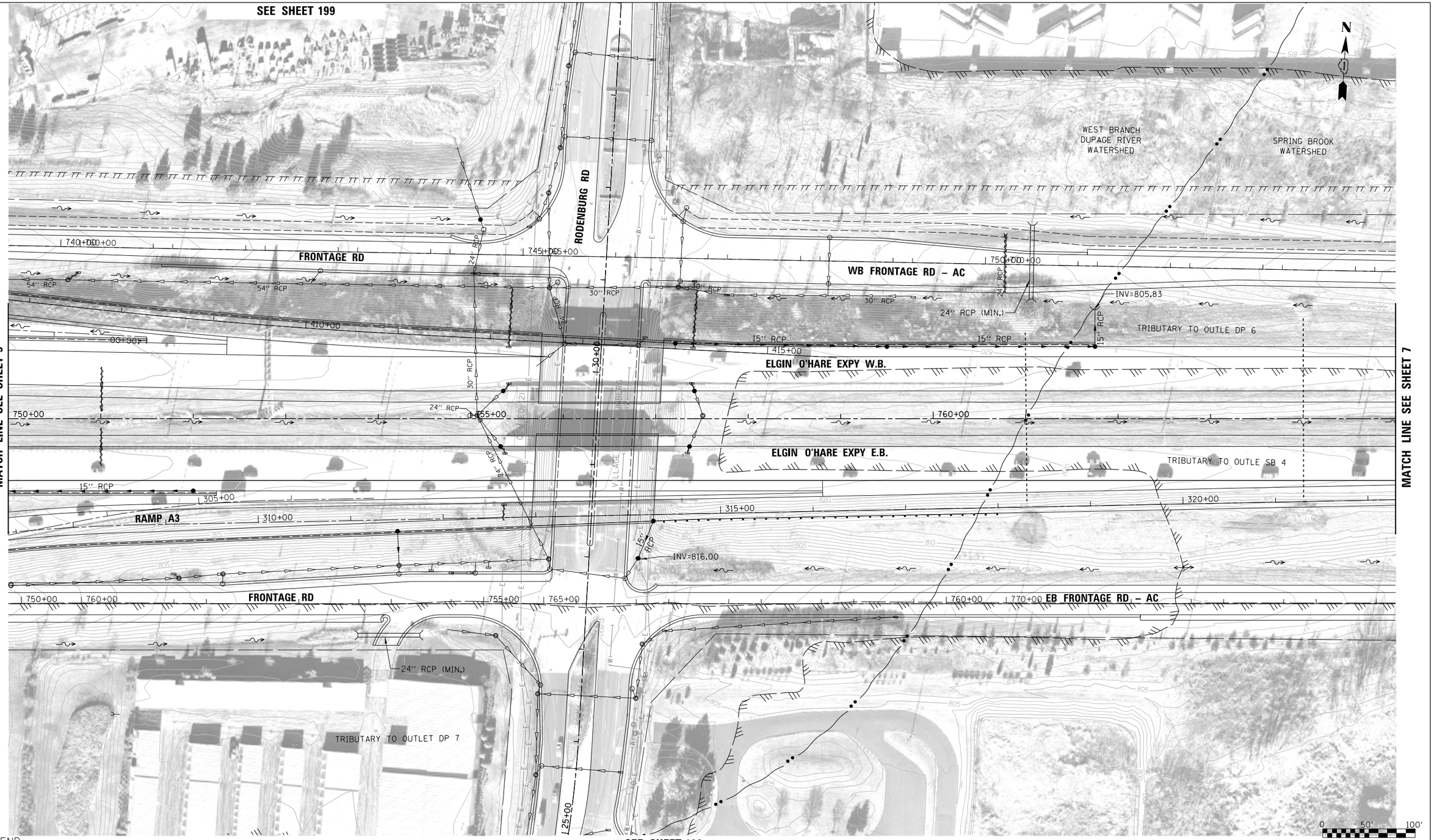


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

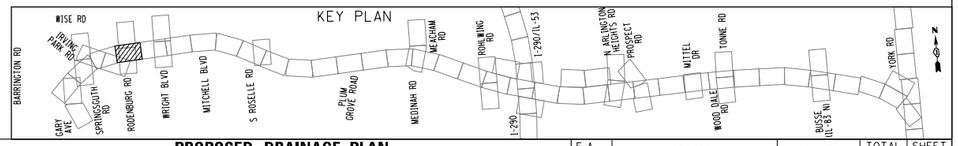
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY. DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED/ SPRING BROOK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	6
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-E0P5_FullBuild.dgn
9:49:13 AM

SEE SHEET 197

MATCH LINE SEE SHEET 6

MATCH LINE SEE SHEET 8

WB FRONTAGE RD – AC

RAMP C4

WRIGHT BLVD

ELGIN O'HARE EXPY W.B.

ELGIN O'HARE EXPY E.B.

EB FRONTAGE RD – AC

RAMP C3

TO EX. OUTLET SB 4

PROJECT LIMIT

SEE SHEET 196

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFRENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

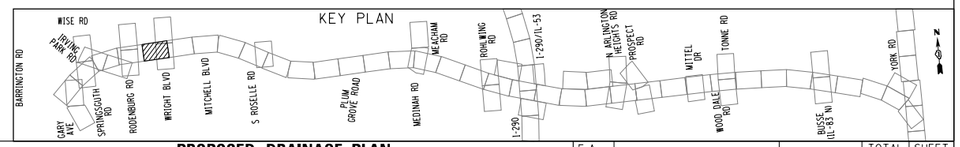
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY. DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SPRING BROOK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	7
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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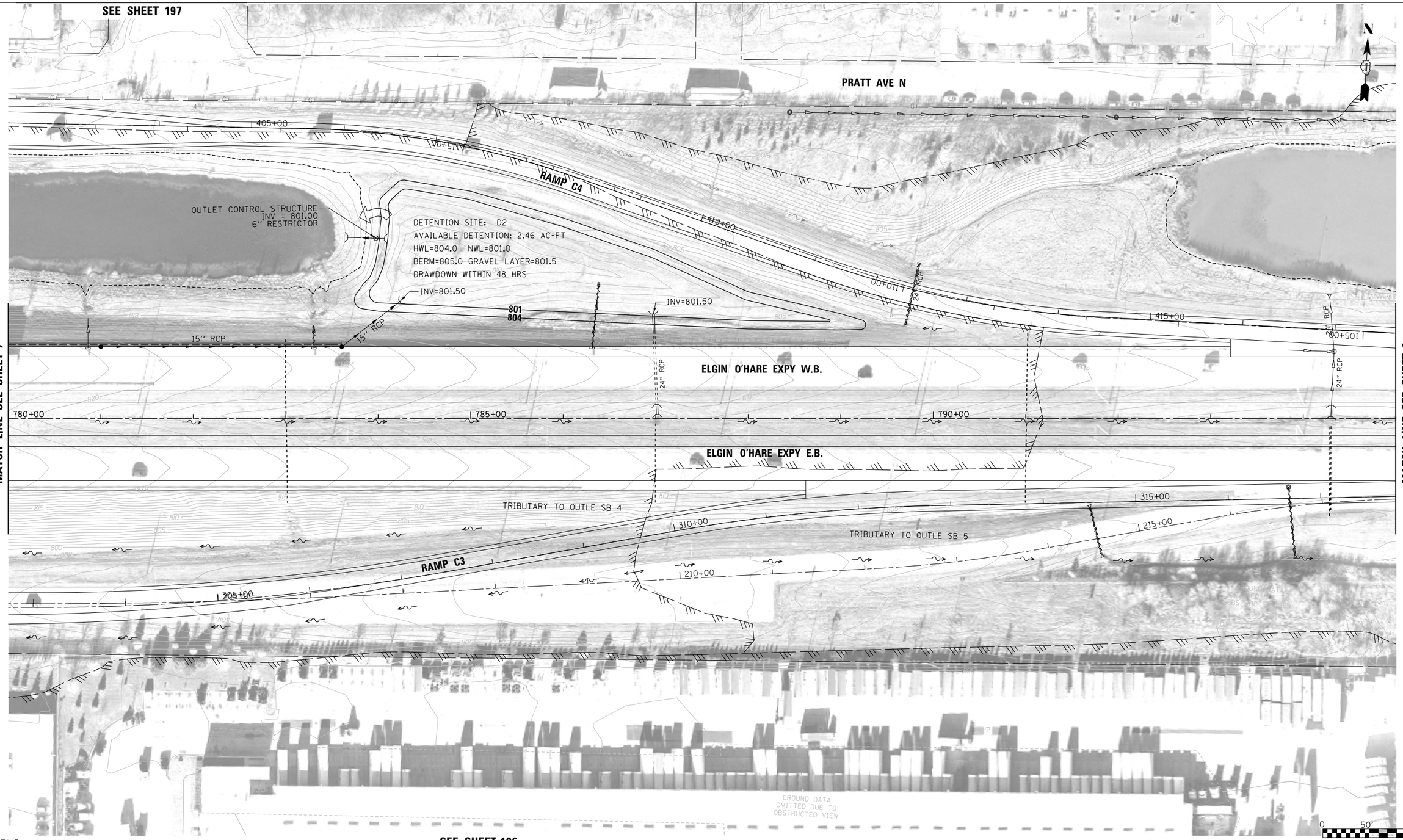


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

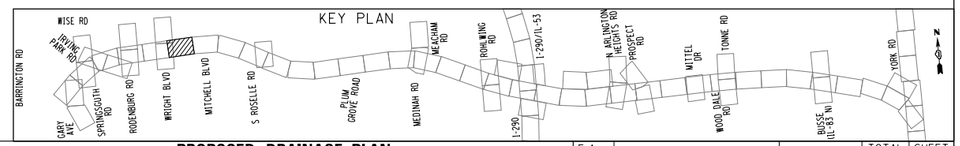
	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

SEE SHEET 196

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SPRING BROOK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	8
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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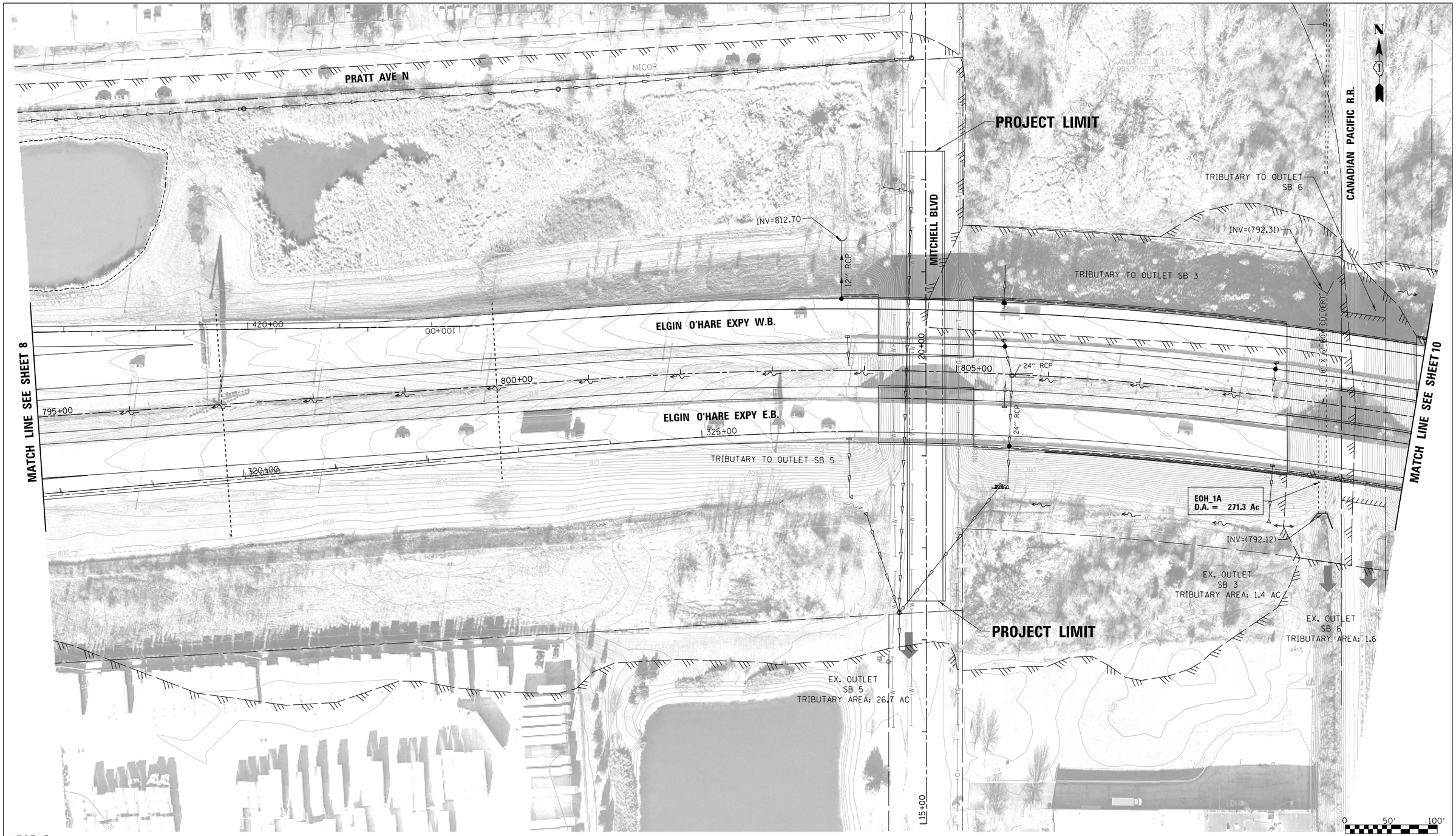


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

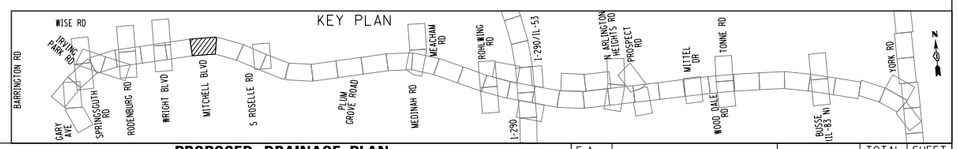
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SPRING BROOK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	9
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DEOWB-sht-pr-drain-EOP8_FullBuild.dgn
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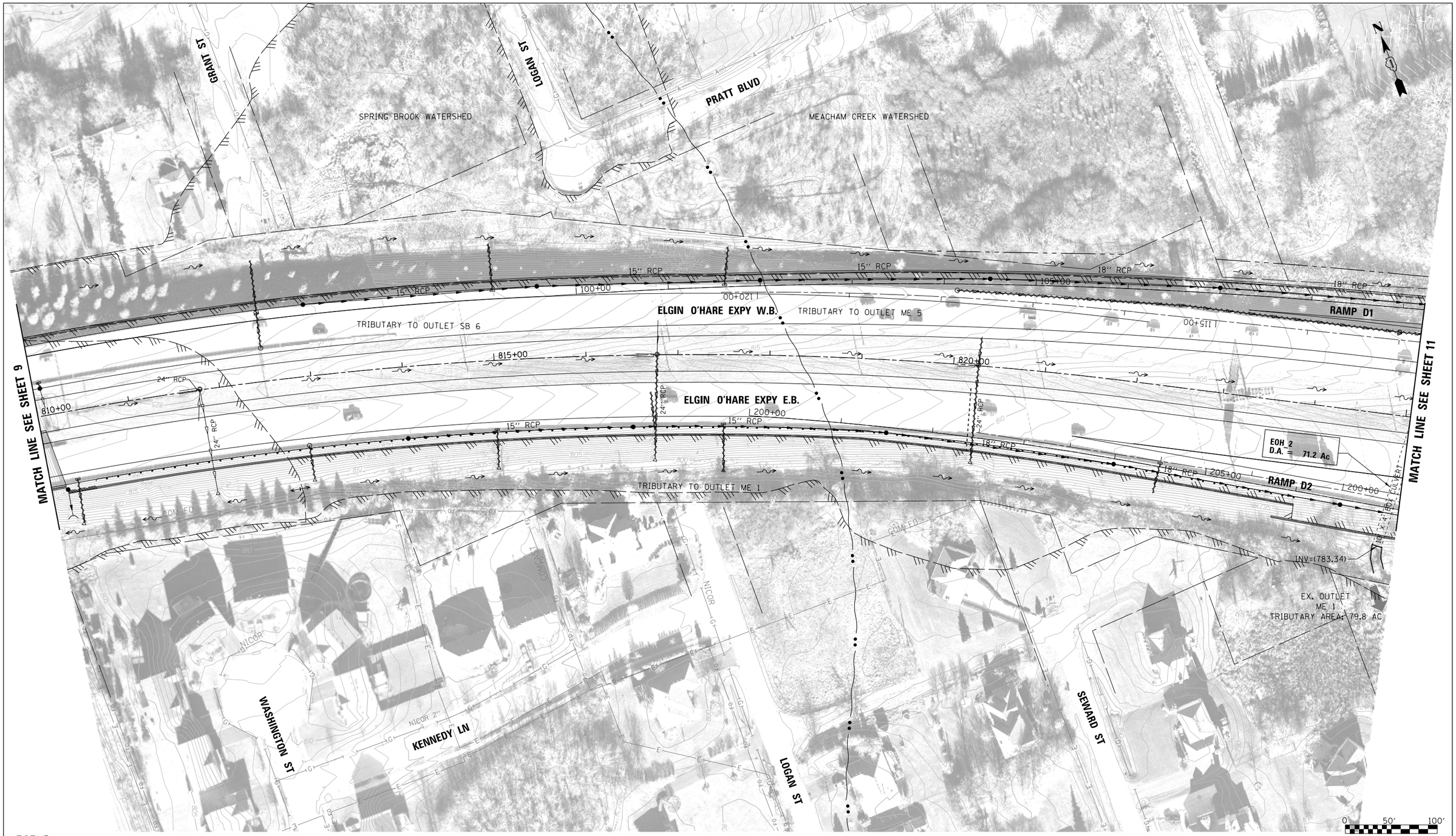


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		T T T T T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

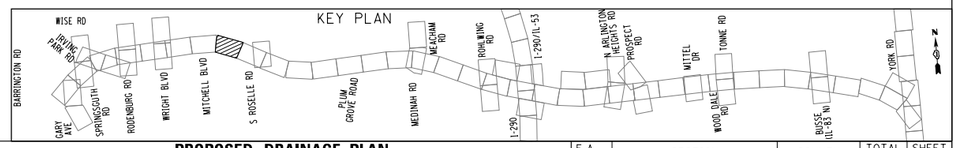
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SPRING BROOK WATERSHED / MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	10
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYV\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-E0P9_FullBuild.dgn
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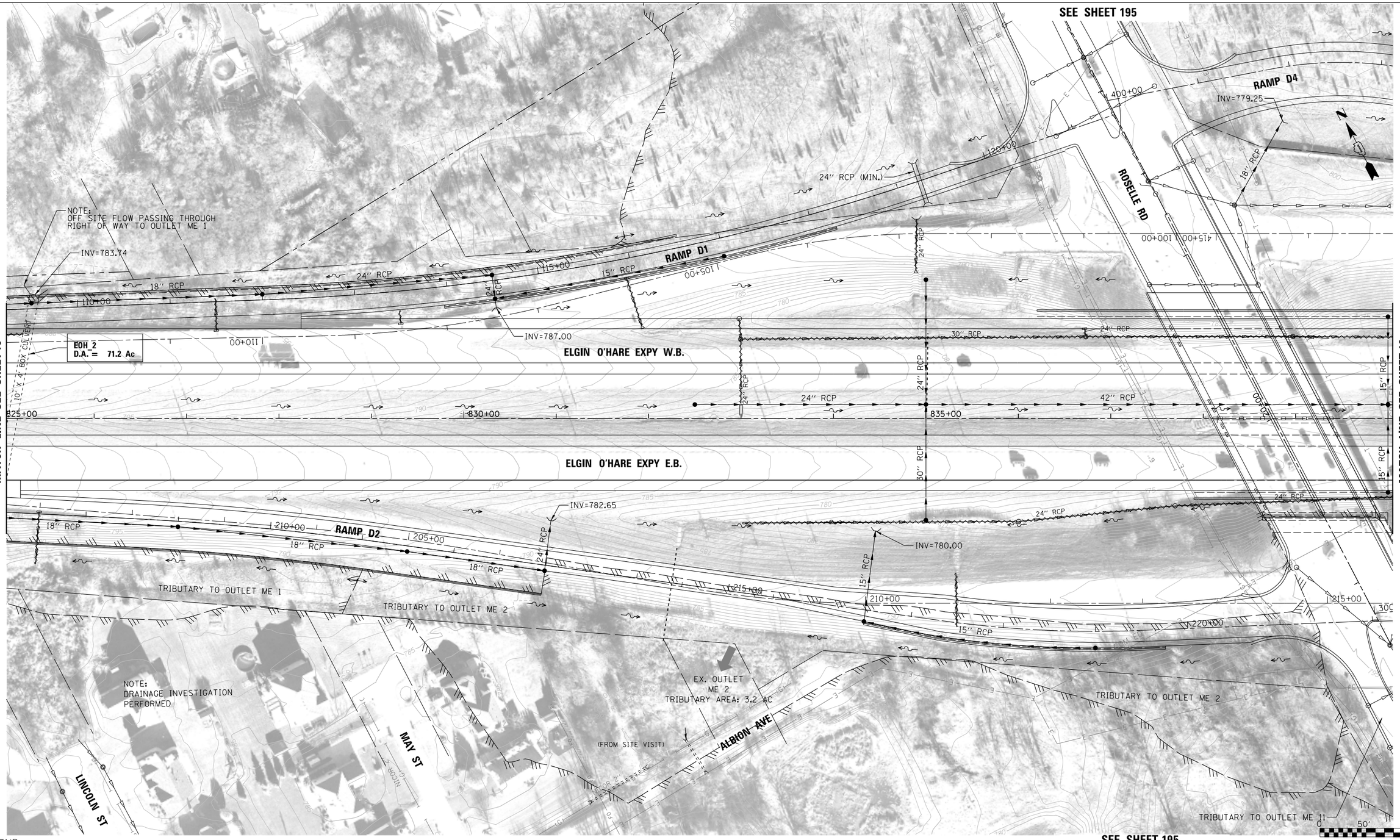


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		T T T T T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

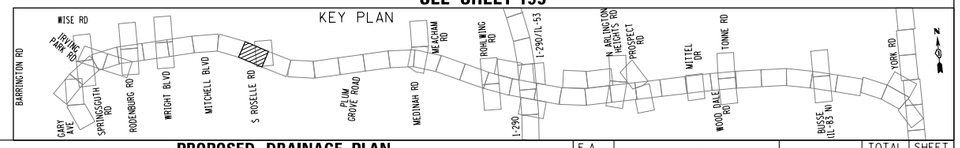
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	11
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-EOP10_FullBuild.dgn
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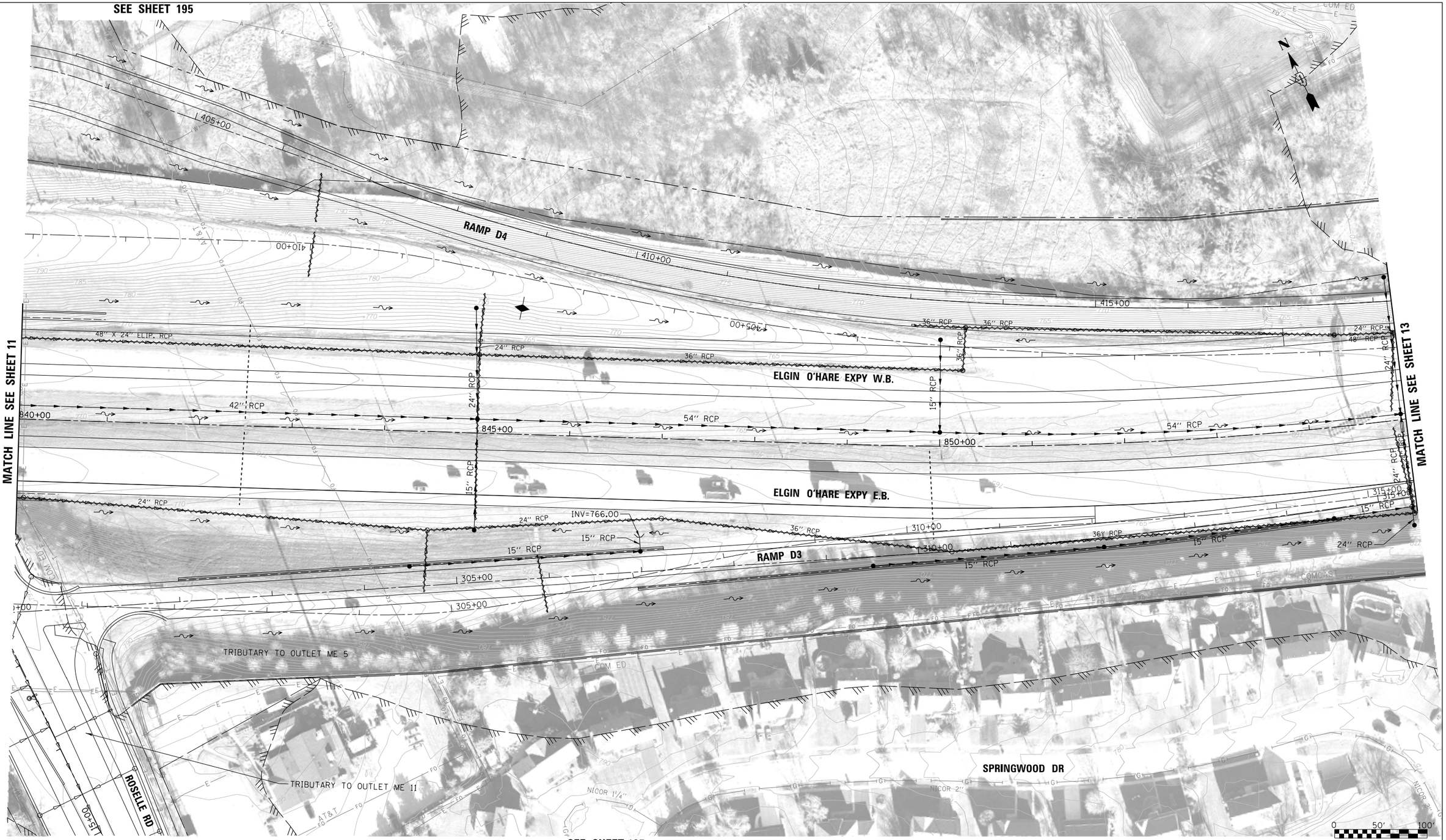
SEE SHEET 195



MATCH LINE SEE SHEET 11

MATCH LINE SEE SHEET 13

SEE SHEET 195

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

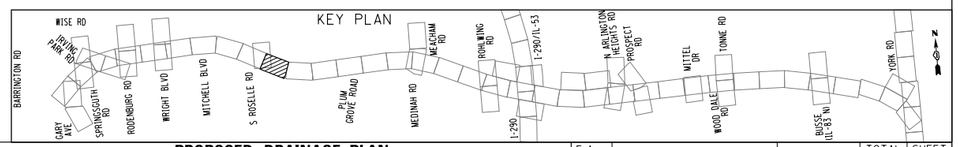
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	12
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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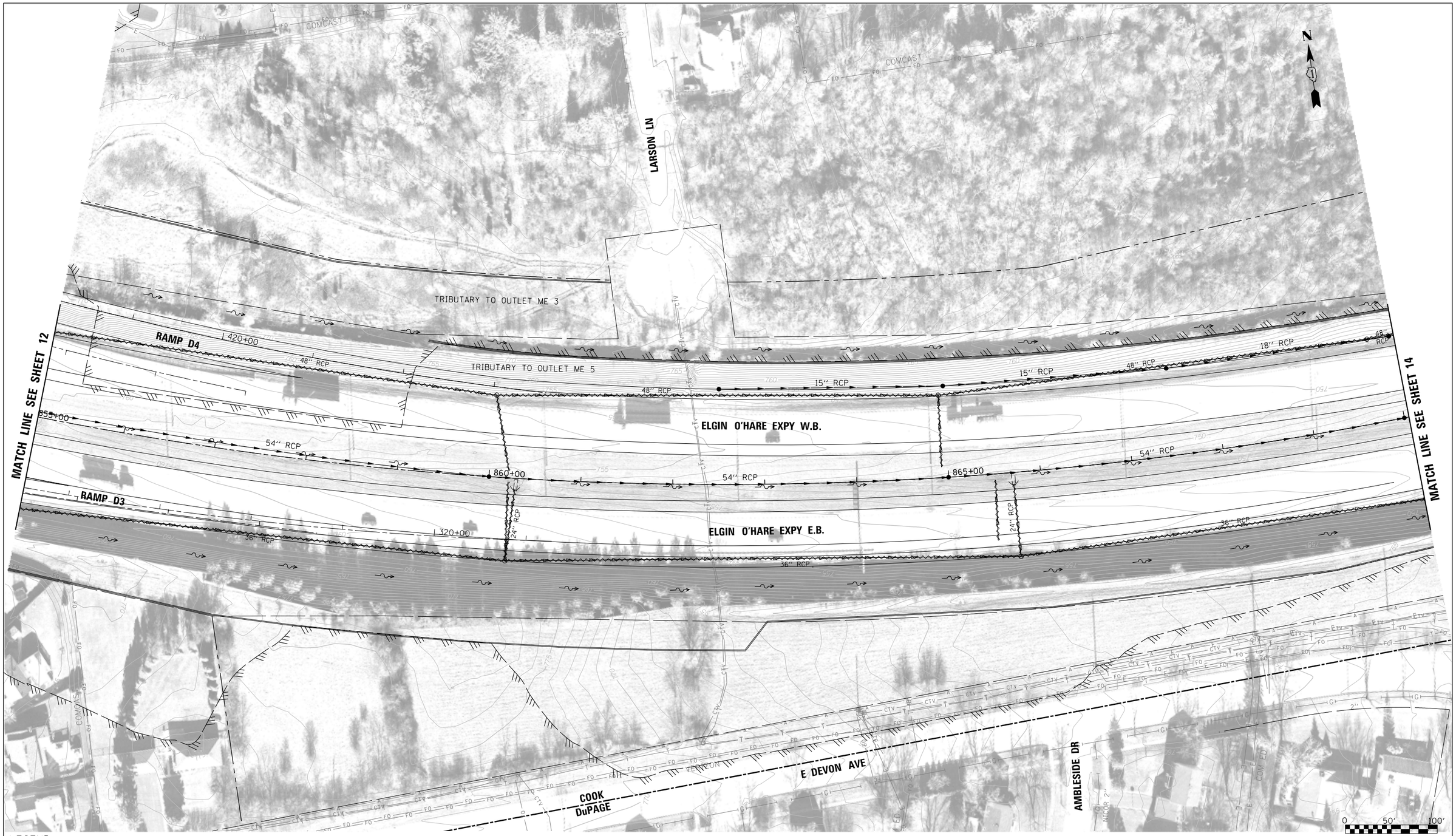


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

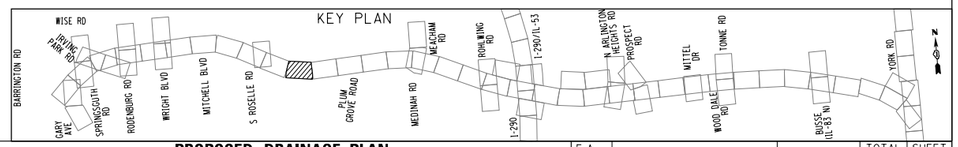
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	13
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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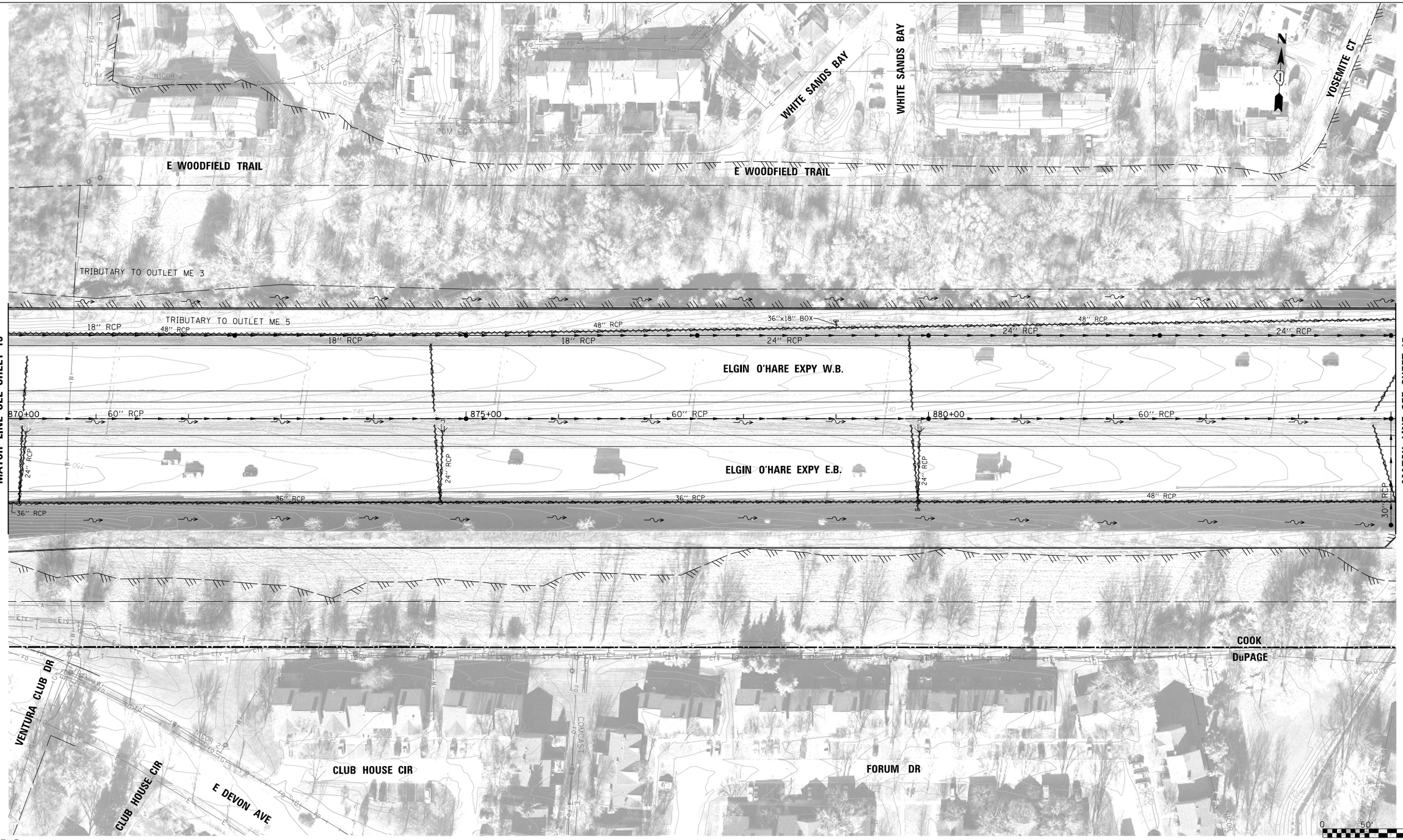


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

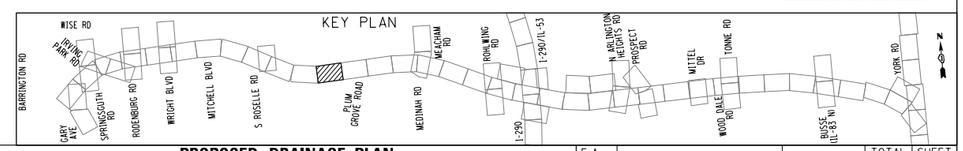
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	14
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-EOPI3_FullBuild.dgn
9:15:29 AM

MATCH LINE SEE SHEET 14

MATCH LINE SEE SHEET 16

SHADOW LAKE BAY

CANTERBURY TRAIL

CONWAY BAY

N PLUM GROVE RD

YOSEMITE TRAIL

N

DETENTION SITE: D3-W
AVAILABLE DETENTION: 8.59 AC-FT
HWL=719.0 NWL=712.2
BERM=720.0
DOES NOT DRAWDOWN WITHIN 48 HRS

NOTE:
OFF SITE FLOW PASSING THROUGH
RIGHT OF WAY TO OUTLET ME 3

INV=725.25

TRIBUTARY TO OUTLET ME 5

INV=713.50

54" RCP
4' x 3' BOX
24" RCP
54" RCP
24" RCP
24" RCP
15" RCP
66" RCP
42" RCP
42" RCP
72" RCP
72" RCP

EOH_5
D.A.= 212.1 Ac

ELGIN O'HARE EXPY W.B.

18" RCP
36" RCP

885+00
121"X77" RCP
890+00
120+00
895+00
30" RCP
18" RCP
30" X 24" ELIP. RCP

12'0" X 3'75" CULVERT

24" RCP
24" RCP
121"X77" RCP
24" RCP

ELGIN O'HARE EXPY E.B.

48" RCP
54" RCP
60" RCP
60" RCP
18" RCP
18" RCP
24" RCP
60" RCP
60" RCP
121"X77" RCP
121"X77" RCP

INV=725.03

EX. OUTLET
ME 3
TRIBUTARY AREA: 212.1 AC

NICOR 12"

COMCAST

COM ED

COMCAST

COOK
DuPAGE

CIRCLE DR

HAWTHORNE LN

NOTE:
DRAINAGE INVESTIGATION PERFORMED

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

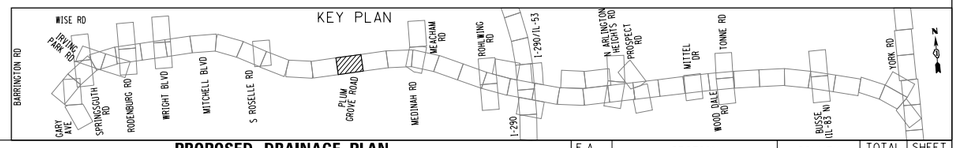
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	15
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drain-EOPI4_FullBuild.dgn
9:05:45 AM

MATCH LINE SEE SHEET 15

MATCH LINE SEE SHEET 17

YOSEMITE TRAIL

DETENTION SITE: D3-W
AVAILABLE DETENTION: 8.59 AC-FT
HWL=719.0 NWL=712.2
BERM=720.0
DOES NOT DRAWDOWN WITHIN 48 HRS

719
714
713

OUTLET CONTROL
STRUCTURE
INV = 712.20
6.5" RESTRICTOR

100-YR
FLOODPLAIN
716.40

COM ED

COMCAST

N

72" RCP

72" RCP

72" RCP

36" RCP

3'X2' BOX

INV=711.00

18" RCP

INV=716.15

18" RCP

INV=711.50

42" RCP

100+00

105+00

110+00

66" RCP

121"X77" RCP

ELGIN O'HARE EXPY W.B.

24" RCP

36" RCP

36" RCP

24" RCP

900+00

905+00

30" X 24" ELIP. RCP

910+00

TRIBUTARY TO OUTLET ME 5

121"X77" RCP

ELGIN O'HARE EXPY E.B.

24" RCP

200+00

60" RCP

60" RCP

121"X77" RCP

121"X77" RCP

15" RCP

715
712

18" RCP

TRIBUTARY TO OUTLET ME 4

EX. OUTLET
ME 4
TRIBUTARY AREA: 1.0 AC

COOK
DuPAGE

COMPENSATORY STORAGE
SITE: CS9

AVAILABLE STORAGE:
NORMAL - 10YR: 3.15 AC-FT
10-100YR: 2.02 AC-FT

100 YR = 716.40
10 YR = 714.20
NWL = 711.62

100-YR FLOODPLAIN
716.40

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

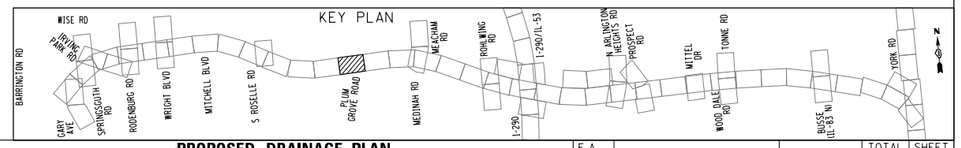
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	16
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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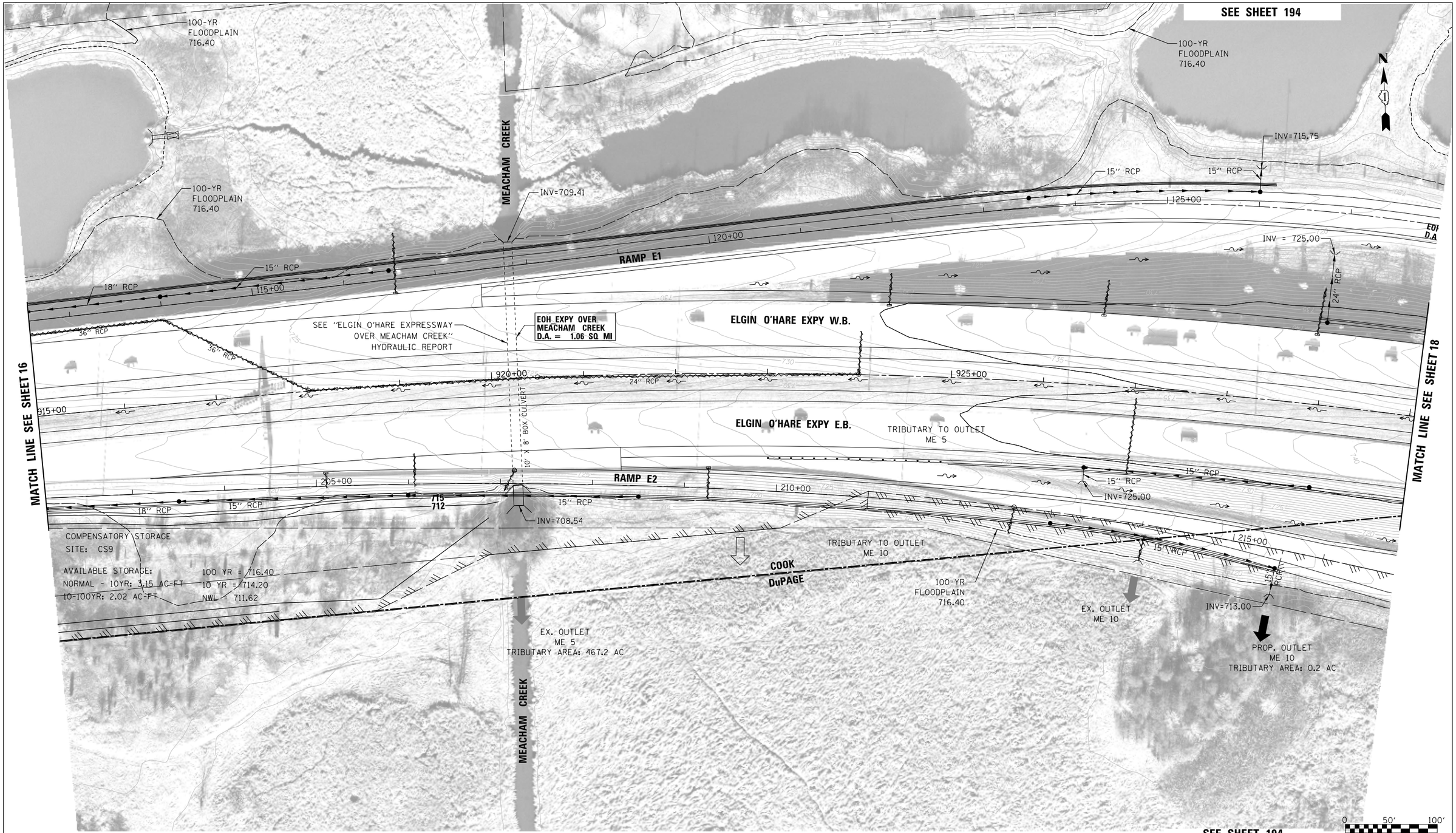


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

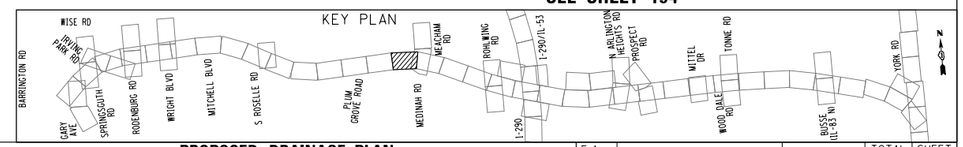
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	17
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER.TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-E0Pl6_FullBuild.dgn
9:52:19 AM

SEE SHEET 193

MATCH LINE SEE SHEET 17

MATCH LINE SEE SHEET 19

100-YR FLOODPLAIN 716.40

MEACHAM RD

INV=(712.54)
INV=(712.45)

EOH_3/4
D.A. = 20.7 Ac

24" RCP

INV=(716.46)

OUTLET CONTROL STRUCTURE
INV = 722.00
7" RESTRICTOR

COOK
DuPAGE

DETENTION SITE: D3-E
AVAILABLE DETENTION: 7.15 AC-FT
HWL=725.0 NWL=722.0
BERM=726.0
NOT REQUIRED TO DRAWDOWN WITHIN 48 HRS

725 723

INV=724.40

130+00

WB FRONTAGE RD - EB

135+00

30+00

140+00

400+00

RAMP E1

INV=(713.59)

INV=(716.51)

JUNCTION CHAMBER

42" RCP

30" RCP

INV=(714.72)
INV=(714.85)
INV=(713.56)
INV=(713.79)
INV=(713.77)

EOH_4
D.A. = 12.8 Ac

EOH_3
D.A. = 7.9 Ac

15" RCP

18" RCP

595+00

RAMP G5

ELGIN O'HARE EXPY W.B.

935+00

940+00

930+00

ELGIN O'HARE EXPY E.B.

INV=718.75

30"x18" RCP

INV=(715.58)

INV=(715.56)

RAMP E2

JUNCTION CHAMBER

220+00

25+00

EB FRONTAGE RD - EG

225+00

12" RCP

30" RCP (MIN.)

INV=722.20

230+00

100-YR FLOODPLAIN 716.40

MEDINAH RD

TRIBUTARY TO OUTLET ME 6
TRIBUTARY AREA: 3.7 AC

TRIBUTARY TO OUTLET ME 7

EX. OUTLET ME 6

30" X 18" ELLIP. RCP

0 50' 100'

LEGEND:

SEE SHEET 193

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

WISE RD · IRVING PARK RD · BARRINGTON RD · GARY AVE · SPRINGSMITH RD · ROSENBERG RD · WRIGHT BLVD · MITCHELL BLVD · S ROSELLE RD · PLUM GROVE ROAD · MEDINAH RD · MEACHAM RD · ROMEOVING RD · I-290/IL-53 · I-290 · N ARLINGTON HEIGHTS RD · PROSPECT RD · WITTEL DR · THANE RD · WOOD DALE RD · BUSSE (IL-83 N) · YORK RD

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	18
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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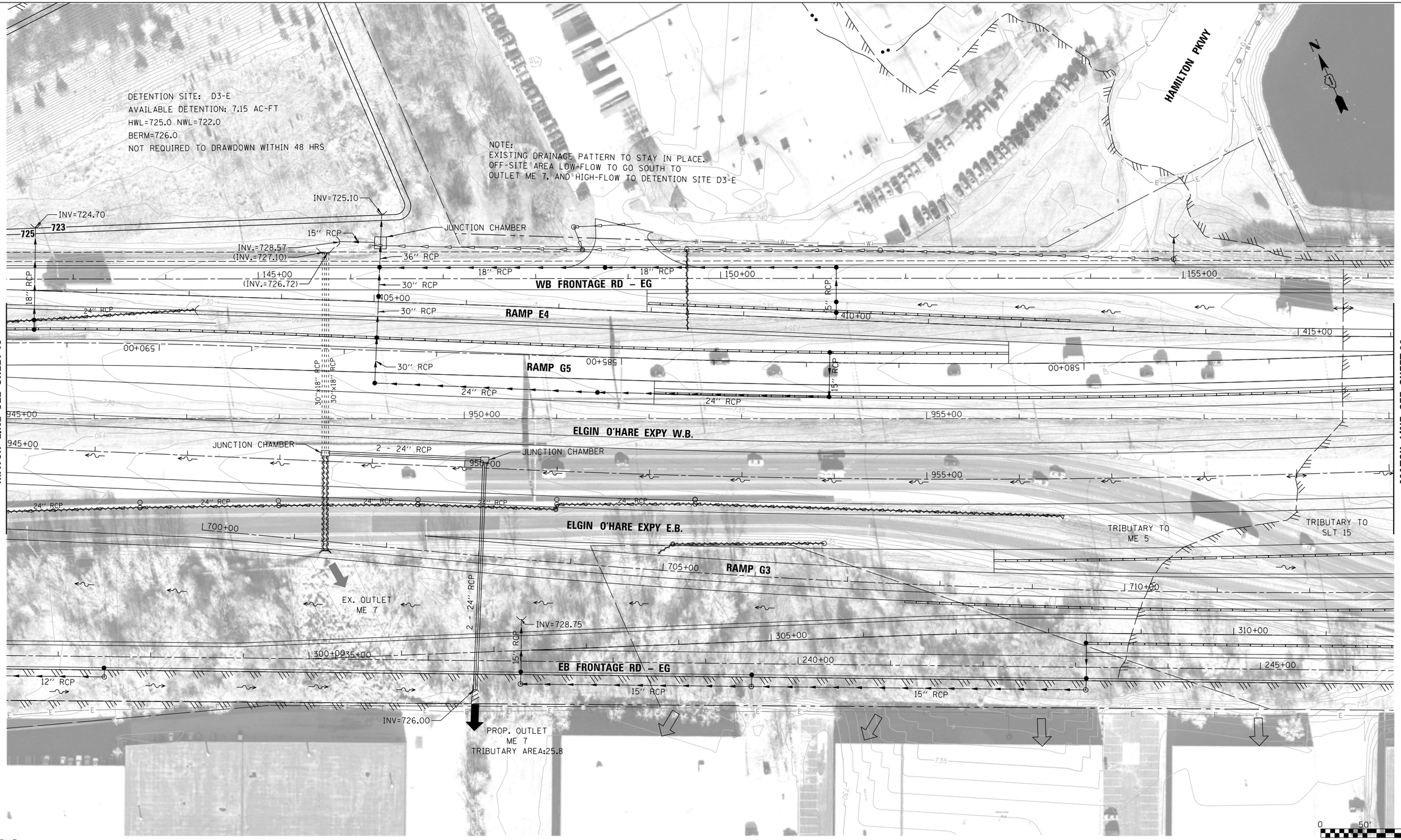


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		TTTTTTTTTT
STORM SEWER REMOVAL		

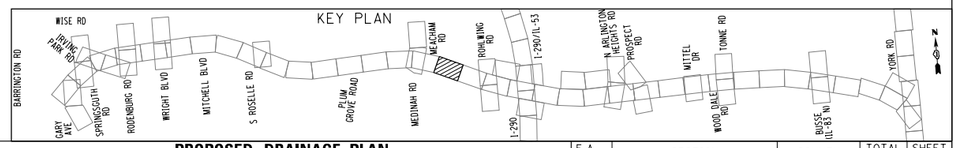
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	19
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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9:52:55 AM

SEE SHEET 191

MATCH LINE SEE SHEET 19

MATCH LINE SEE SHEET 21

SEE SHEET 190

MEACHAM CREEK WATERSHED

SALT CREEK WATERSHED

WB FRONTAGE RD – EG

RAMP G5

ELGIN O'HARE EXPY W.B.

ELGIN O'HARE EXPY E.B.

RAMP G3

EB FRONTAGE RD – EG

160+00 165+00 170+00 420+00 565+00 570+00 575+00 715+00 720+00 725+00 250+00 255+00 260+00 315+00 960+00 965+00 970+00

INV=731.66 INV=728.37 INV=719.11 INV=713.68

15" RCP 18" RCP 24" RCP 30" RCP 36" RCP 12" RCP

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

WISE RD, IRVING PARK RD, BARRINGTON RD, GARY AVE, SPRINGFIELD RD, RODENBURG RD, WRIGHT BLVD, MITCHELL BLVD, S RIDGELE RD, PLUM GROVE ROAD, MEACHAM RD, MEDINAH RD, TROUBLEWING RD, I-290/IL-53, N ARLINGTON HEIGHTS RD, PROSPECT RD, WITTEL DR, TOWNE RD, WOOD DALE RD, I-290, BUSSE (IL-83 N), WORK RD

FILE NAME = DIEOWB-sht-pr-drain-E0P19_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED /SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY
SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	20
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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9:53:10 AM

SEE SHEET 191

SEE SHEET 189

ROHLWING RD

RAMP G5

TOP OF BEDDING INV=706.50
CULVERT INV=705.50

INV=703.50
INV=705.50

EQUALIZER PIPE
24" RCP (MIN.)

4'x5' RCBC

704
709

TOP OF BEDDING INV=704.00
CULVERT INV=703.00

DETENTION SITE: D6-W
AVAILABLE DETENTION: 9.11 AC-FT
HWL=709.1 NWL=703.0
BERM=712.1
DOES NOT DRAWDOWN WITHIN 48 HRS

4'x4' RCBC

TOP OF BEDDING INV=703.00
CULVERT INV=702.00

INV=708.85
BEDDING INV=707.20
CULVERT INV=706.20

4'x5' RCBC

INV=707.20

RAMP K1

ELGIN O'HARE EXPY W.B.

D6-EXISTING
8.70 AC-FT OF FILL
MITIGATED IN D6-W

36" RCP

6'x4' RCBC

SEE "ELGIN O'HARE EXPRESSWAY (WEST)
OVER DEVON AVENUE TRIBUTARY TO SALT CREEK"
HYDRAULIC REPORT

INV=707.54

54" RCP

42" RCP

48" RCP

ELGIN O'HARE EXPY E.B.

MATCH LINE SEE SHEET 20

MATCH LINE SEE SHEET 22

RAMP K2

30" RCP

36" RCP

15" RCP

JUNCTION CHAMBER

5'x4' RCBC

TOP OF BEDDING INV=708.00
CULVERT INV=707.00

TOP OF BEDDING INV=708.00
CULVERT INV=707.00

18" RCP

RAMP G3

RAMP G4

ROHLWING RD

SEE SHEET 190

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

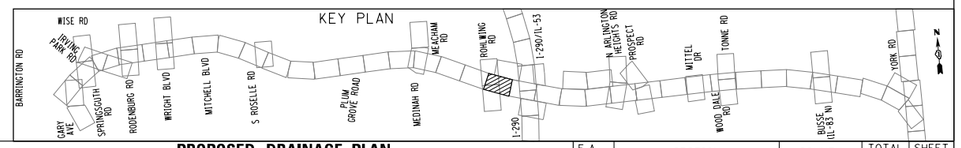
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY / THORNDALE AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	21
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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9:53:26 AM

SEE SHEET 180

MATCH LINE SEE SHEET 21

MATCH LINE SEE SHEET 23

I-290 RAMP G5
OVER DEVON AVE TRIB
D.A. = 0.4 SQ MI

EOH EXPY W.B. OVER
DEVON AVE TRIB
D.A. = 0.35 SQ MI

EOH EXPY EB OVER
DEVON AVE TRIB
D.A. = 0.35 SQ MI

SEE "ELGIN O'HARE EXPRESSWAY (EAST)
OVER DEVON AVENUE TRIBUTARY TO SALT CREEK"
HYDRAULIC REPORT

WIDE DITCH

TOP OF BEDDING INV=693.00
CULVERT INV=632.00

TOP OF BEDDING INV=708.82
CULVERT INV=707.82

NOTE:
OFF SITE FLOW PASSING
THROUGH RIGHT OF WAY
TO OUTLET SLT 15

TRIBUTARY TO OUTLET
SLT 15

INV=715.00
15" RCP

TRIBUTARY TO OUTLET
SLT 1

TRIBUTARY TO OUTLET
SLT 6

RAMP G1
RAMP G3
RAMP G4
RAMP G5
RAMP G7
RAMP G8
RAMP K2
RAMP K3

I-290 E.B.
I-290 W.B.

ELGIN O'HARE EXPY W.B.
ELGIN O'HARE EXPY E.B.

54" RCP
60" RCP
24" RCP
36" CULVERT
6'x4' RCBC
30" x 19" RCPA

115+00
130+00
135+00
140+00
215+00
220+00
300+00
305+00
410+00
500+00
505+00
600+00
605+00
745+00
750+00
755+00
810+00
990+00
995+00
1000+00

DETENTION SITE: D6-S
AVAILABLE DETENTION: 10.73 AC-FT
HWL=703.9 NWL=700.0
BERM=708.0
DOES NOT DRAWDOWN WITHIN 48 HRS

50' 100'

SEE SHEET 179

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

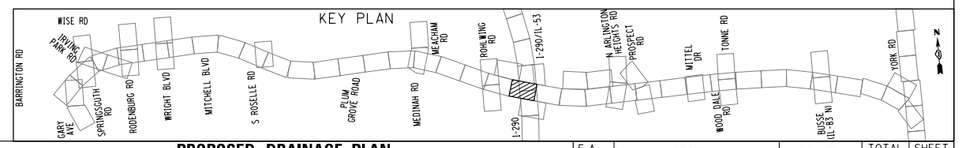
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	22
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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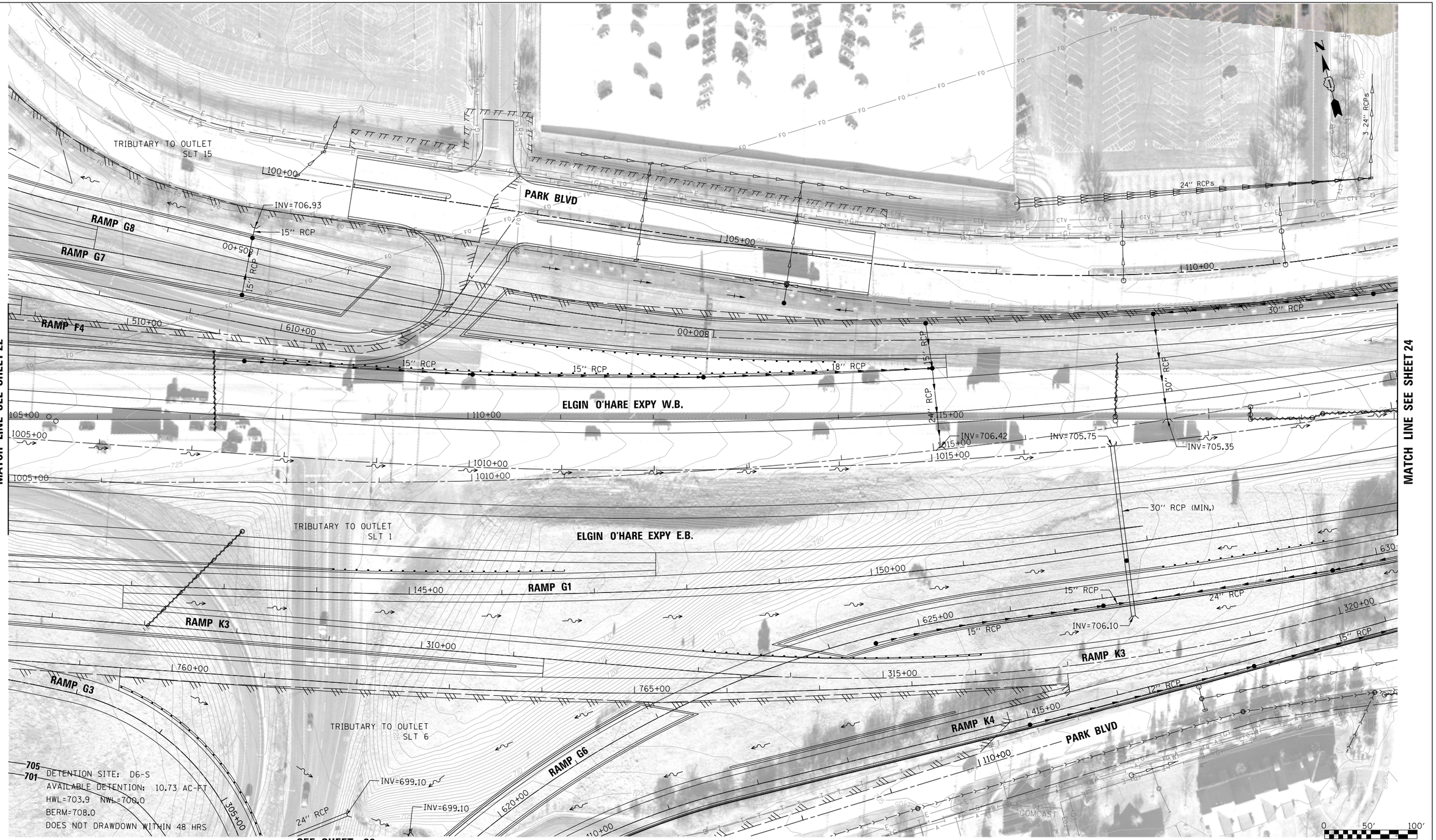


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		T T T T T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

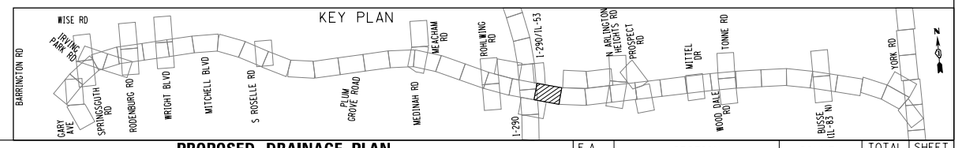
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	23
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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9/5/57 AM

SEE SHEET 175

EX. OUTLET
SLT 1

TOP OF BEDDING INV=687.48
CULVERT INV=686.48

TRIBUTARY TO OUTLET
SLT 15

15" RCP

INV=687.90

PROJECT LIMIT

120+00

105+00

54"x36" CMP

115+00

PARK BLVD

100+00

ELGIN O'HARE EXPY W.B.

1030+00

TRIBUTARY TO OUTLET
SLT 4

18" RCP

15" RCP

9'x4' RCBC

TRIBUTARY TO OUTLET
SLT 1

1025+00

645+00

020+00

1025+00

60"x36" CMP

EOH EXPY OVER
DEVON AVE TRIB
D.A. = 0.75 SQ MI

020+00

120+00

ELGIN O'HARE EXPY E.B.

640+00

INV=701.75

15" RCP

SEE "THORNDALE AVENUE OVER
DEVON AVENUE TRIBUTARY TO SALT CREEK"
HYDRAULIC REPORT

EB FRONTAGE RD - KL

24" RCP

60"x36" RCP

125+00

635+00

130+00

330+00

315+00

RAMP G6

24" RCP (MIN.)

24" RCP

+00

18" RCP

15" RCP

325+00

18" RCP

RAMP K3

15" RCP

24" RCP (MIN.)

9'x4' RCBC

60"x36" RCP

PARK BLVD

500+00

E TALL OAKS LN

TOP OF BEDDING INV=689.57
CULVERT INV=688.57

NOTE:
OFF SITE FLOW PASSING THROUGH
RIGHT OF WAY TO OUTLET SLT 1

MILLERS CROSSING

MATCH LINE SEE SHEET 23

MATCH LINE SEE SHEET 25

N

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

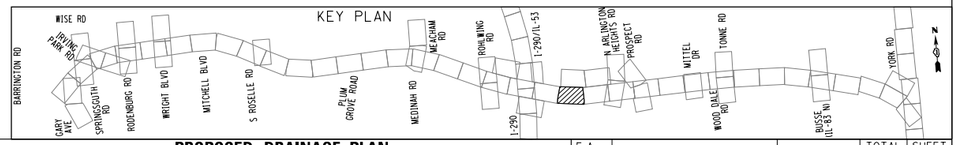
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XX'-XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



FILE NAME = DIEOWB-sht-pr-drain-EOP23_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

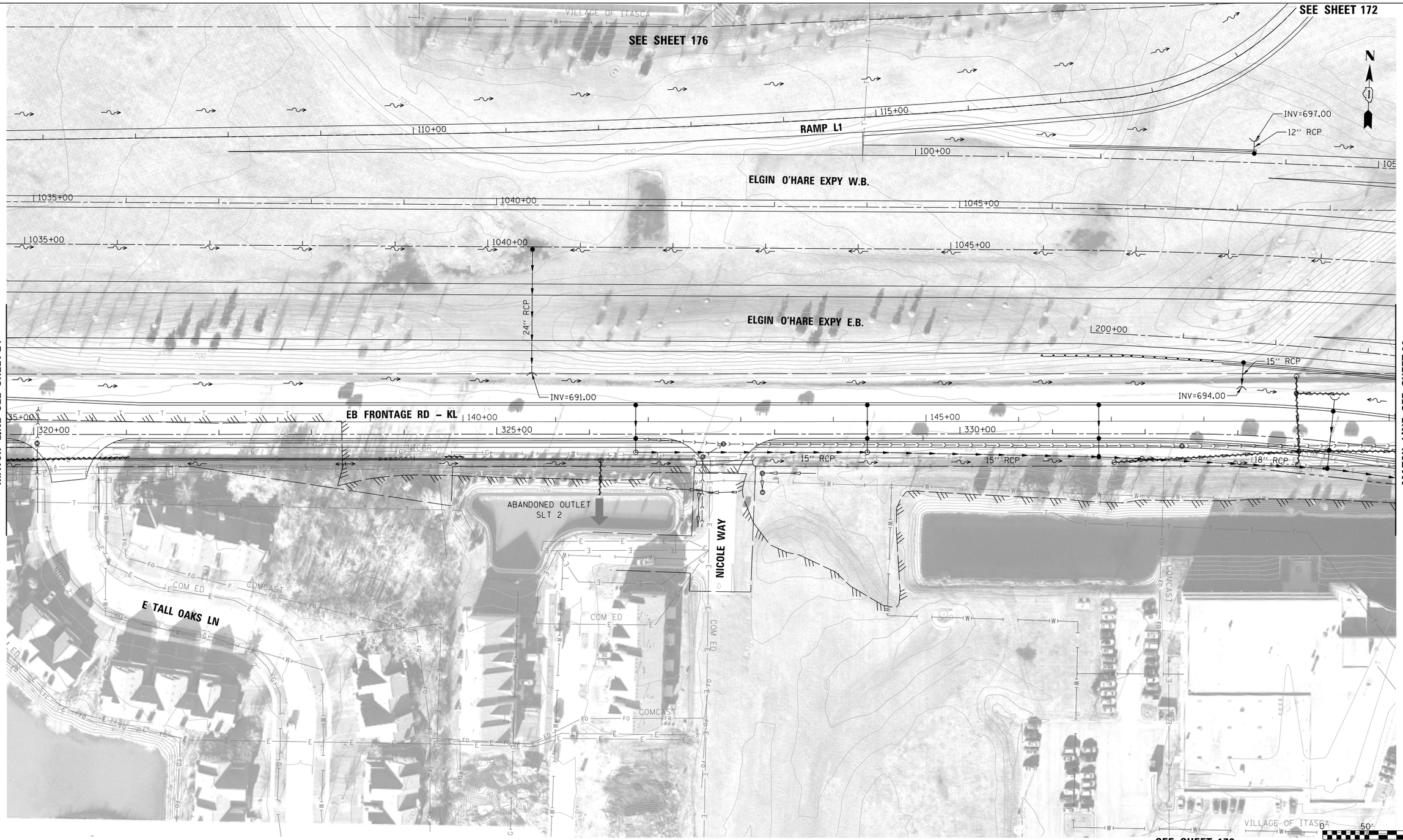
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	24
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYCAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drain-EOP23_FullBuild.dgn
9/5/12 AM



MATCH LINE SEE SHEET 24

MATCH LINE SEE SHEET 26

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

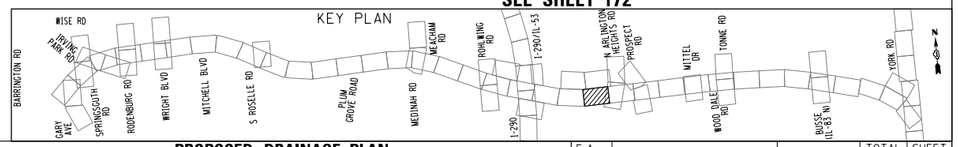
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



SEE SHEET 172

FILE NAME = DIEOWB-sht-pr-drain-EOP24_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	25
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Yi:36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-EOP24_FullBuild.dgn
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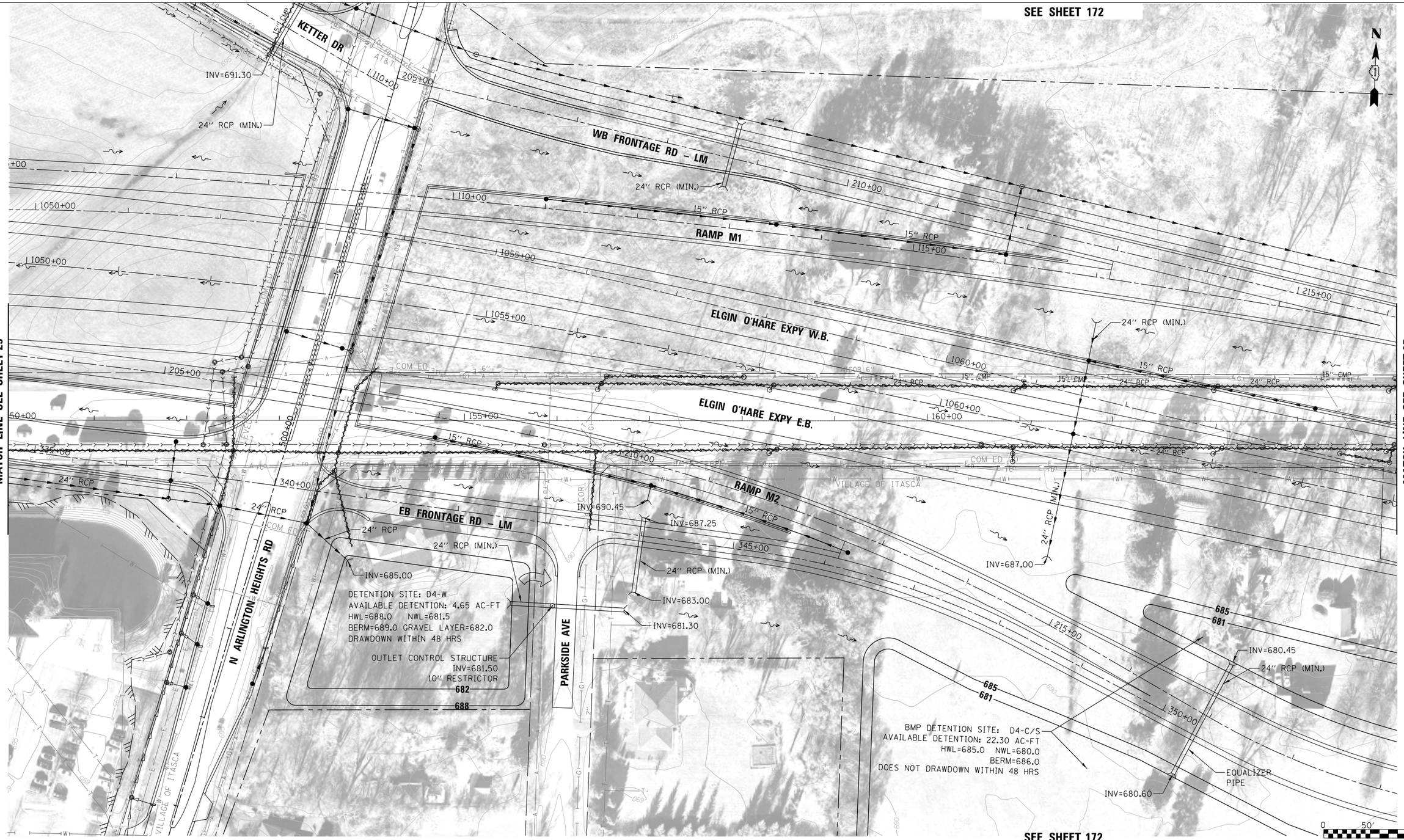


LEGEND:

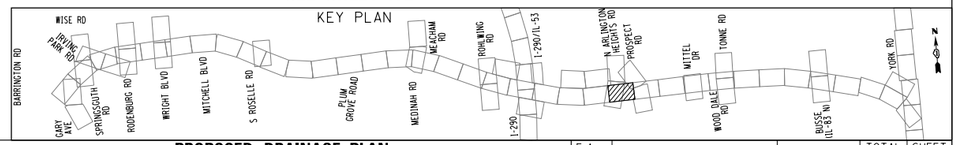
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	26
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-EOP25_FullBuild.dgn
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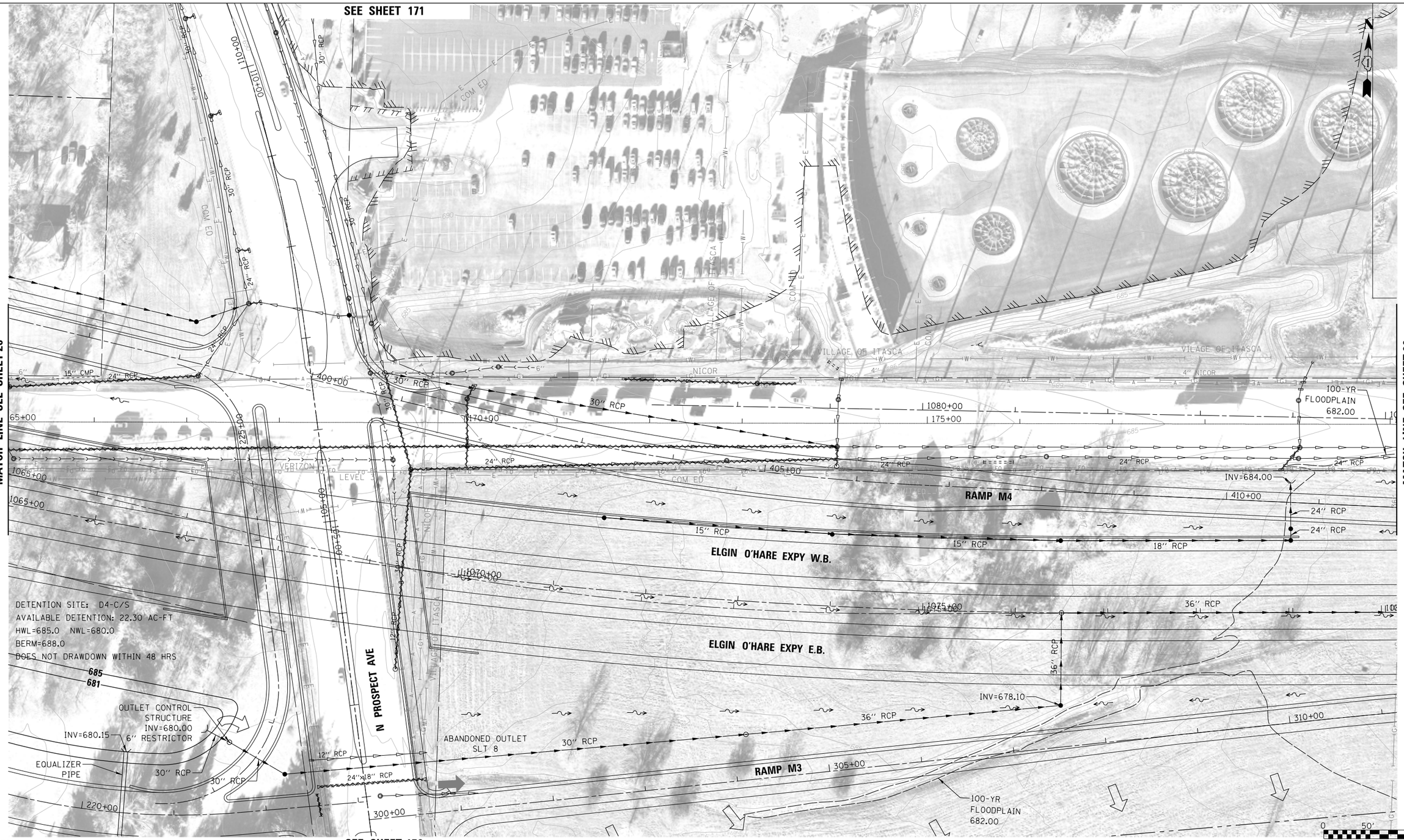


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

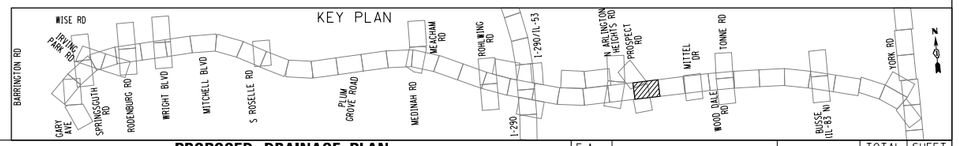
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

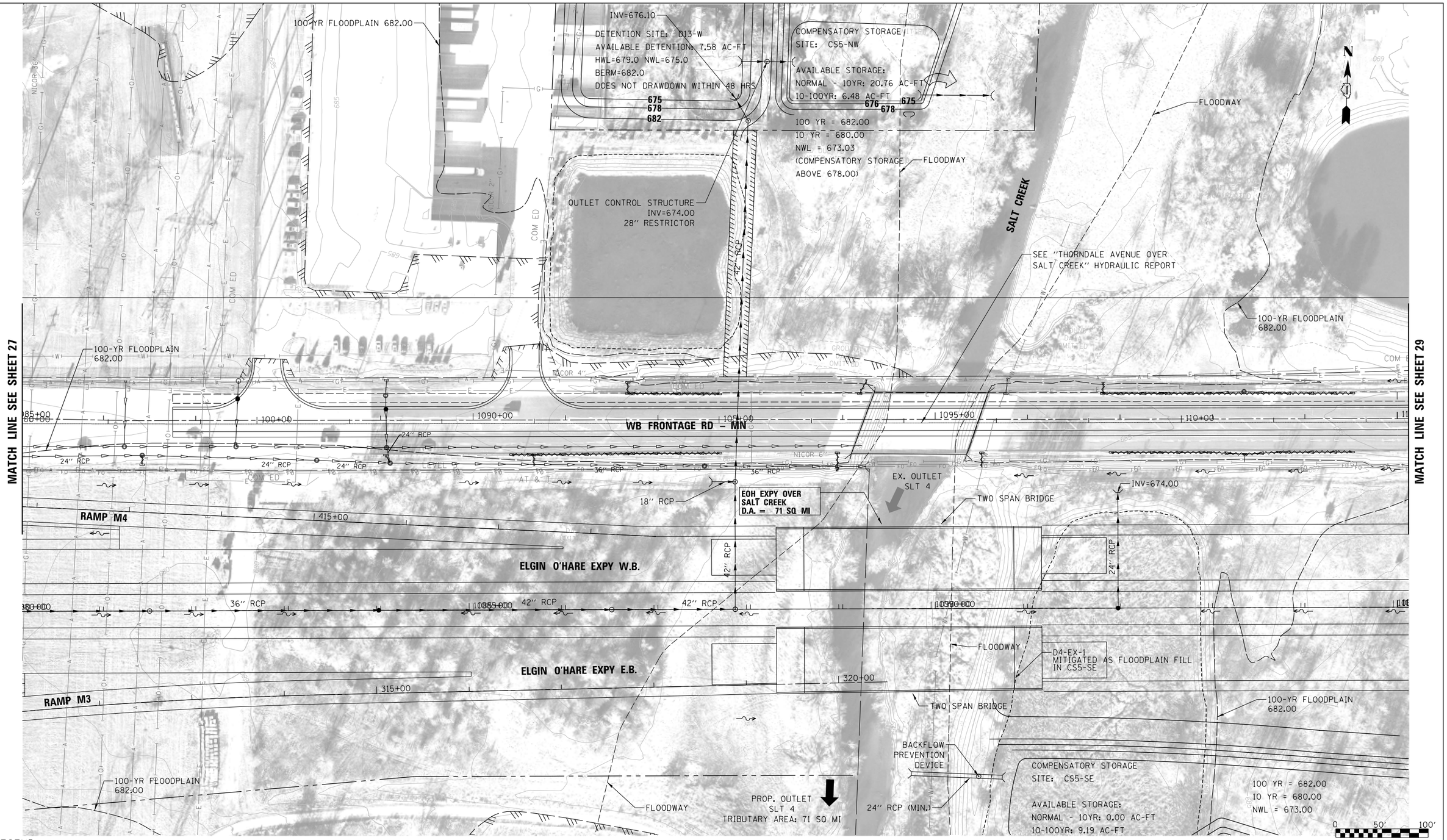
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	27
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYCAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drain-EOP26_FullBuild.dgn
9/5/2014 AM



LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

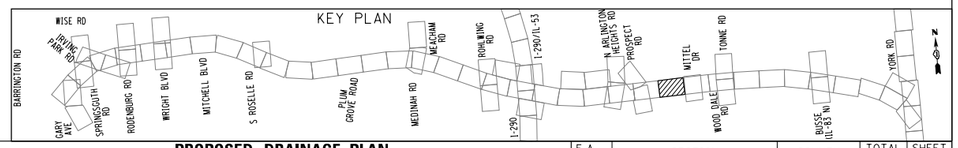
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

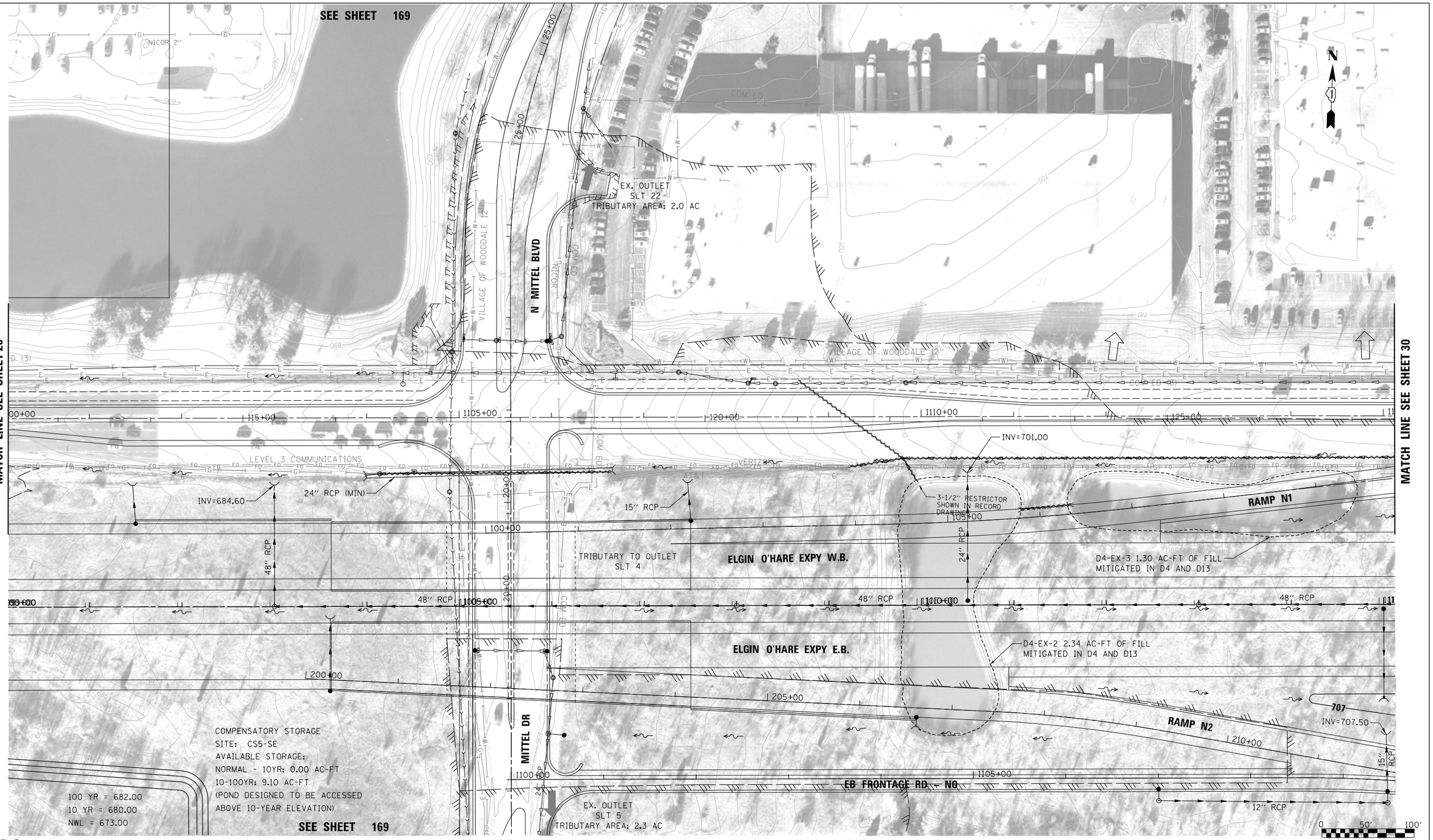
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	28
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-EOP27_FullBuild.dgn
9/5/09 AM



LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

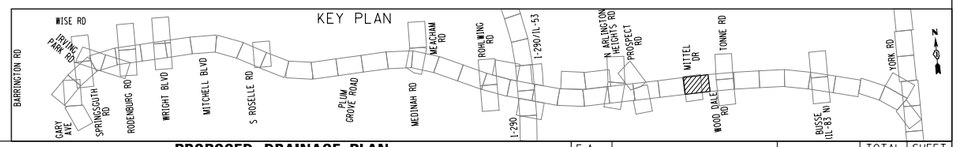
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	29
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYCAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drain-EOP28_FullBuild.dgn
9/05/24 AM

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

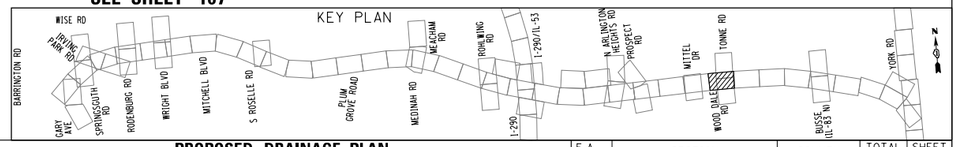
	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

SEE SHEET 167

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED / WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	30
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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9:55:39 AM

MATCH LINE SEE SHEET 30

MATCH LINE SEE SHEET 32

EX. OUTLET
WL 1
TRIBUTARY AREA: 0.8 AC

EX. OUTLET
WL 2
TRIBUTARY AREA: 2.0 AC

PROJECT LIMIT

CARL BLVD

WB FRONTAGE RD – NO

RAMP N4

RAMP N3

EB FRONTAGE RD – NO

CENTRAL AVE

ELGIN O'HARE EXPY W.B.

ELGIN O'HARE EXPY E.B.

WATERSHED DIVERSION 12.5 ACRES

D12-EXISTING5 0.72 AC-FT OF FILL
MITIGATED IN D12-N

TRIBUTARY TO
WL 25/26/27

TRIBUTARY TO
SLT 4

TRIBUTARY TO
SLT 4

INV=699.72

INV=697.72

24" RCP

10" PCC

18" RCP

12" RCP

24" RCP (MIN.)

1130+00 1135+00 1140+00 1125+00 1130+00 1135+00 310+00 315+00 400+00 405+00 410+00 150+00 155+00 160+00

0 50' 100'

N

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

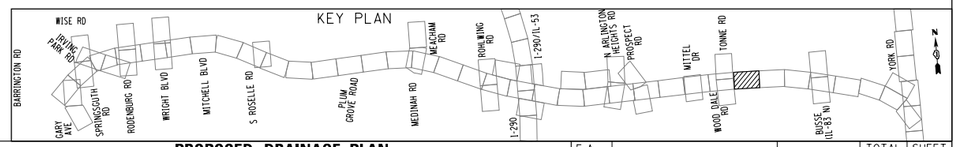
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	31
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-EOP30_FullBuild.dgn
9:55:54 AM

PROJECT LIMIT

MATCH LINE SEE SHEET 31

MATCH LINE SEE SHEET 33

LIVELY BLVD

WB FRONTAGE RD – NO

EB FRONTAGE RD – NO

ELGIN O'HARE EXPY W.B.

ELGIN O'HARE EXPY E.B.

RAMP O2

SIVERT DR

DILLON DR

D12-EX-4 0.88 AC-FT OF FILL
MITIGATED IN D12-S

DETENTION SITE: D12-W
AVAILABLE DETENTION: 2.98 AC-FT
HWL=688.0 NWL=681.3
BERM=691.0 GRAVEL LAYER=682.0
DRAWDOWN WITHIN 48 HRS

INV=695.20

INV=689.25

INV=686.50

24" RCP (MIN.)

15" RCP

18" RCP

12" RCP

NICOR 6"

COM ED

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

BARRINGTON RD, IRVING PARK RD, GARY AVE, SPRINGSMITH RD, ROSENBURG RD, WRIGHT BLVD, MITCHELL BLVD, S ROSELLE RD, PLUM GROVE ROAD, MEDINAH RD, MEACHAM RD, RONDWING RD, I-290/IL-53, N ARLINGTON HEIGHTS RD, PROSPECT RD, WITTEL DR, TOONE RD, WOOD DALE RD, BUSSE/IL-83 NB, YORK RD

FILE NAME = DIEOWB-sht-pr-drain-EOP3I_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	32
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DEOWB-sht-pr-drain-EOP3I_FullBuild.dgn
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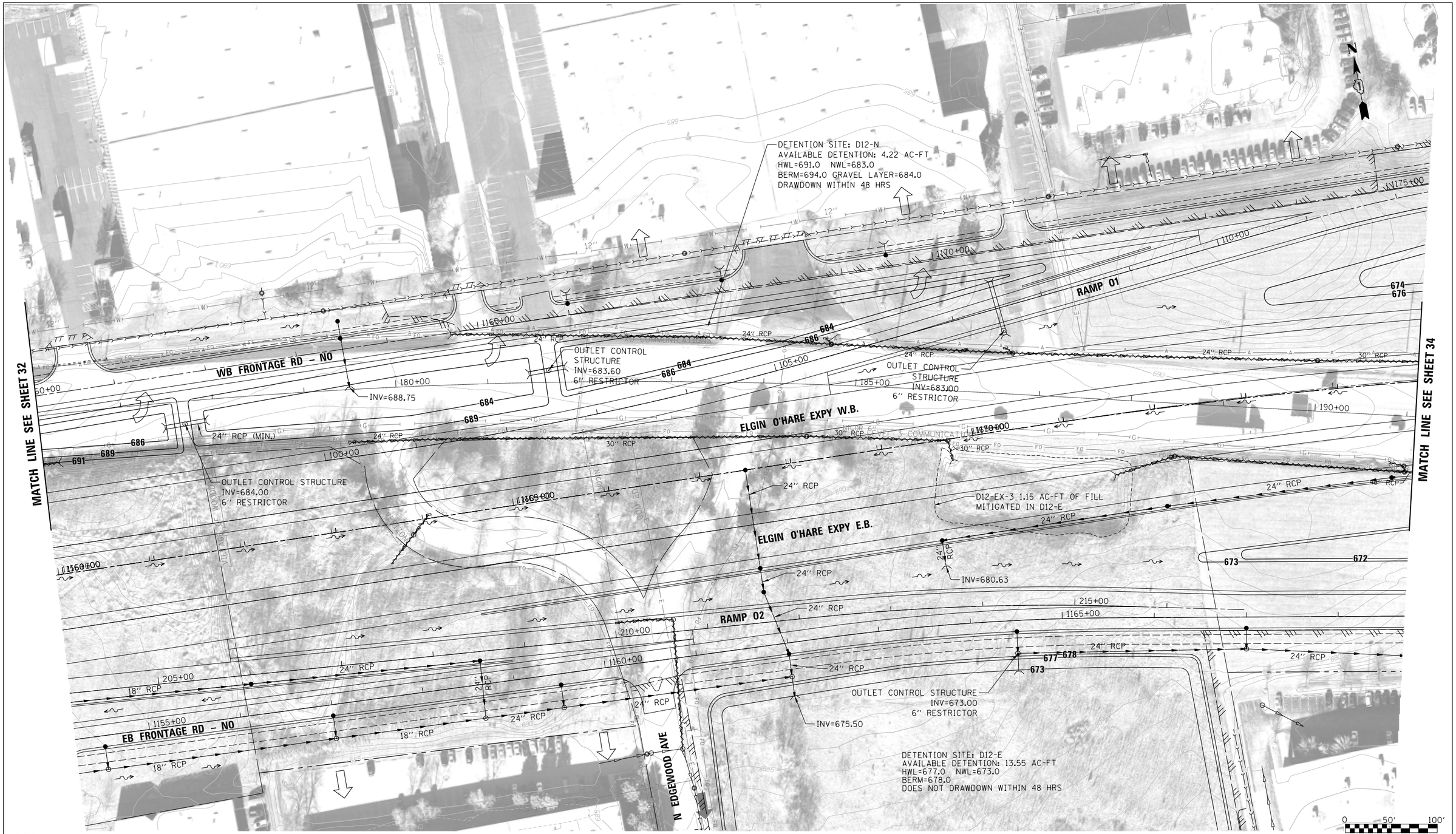


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

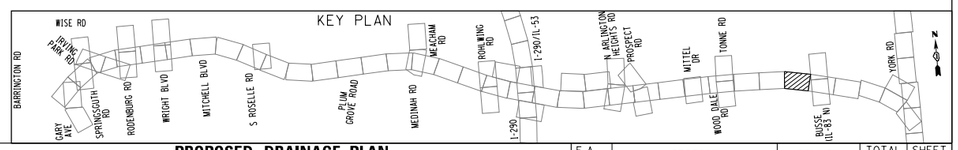
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	33
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-EOP32_FullBuild.dgn
9:56:25 AM

SEE SHEET 165

MATCH LINE SEE SHEET 33

MATCH LINE SEE SHEET 35

EX. OUTLET
WL 4
TRIBUTARY AREA: 1.7 AC

WB FRONTAGE RD – NO

INV=672.00

12" RCP

DETENTION SITE: ILRT83 NW
AVAILABLE DETENTION: 1.67 AC-FT
HWL=676.0 NWL=672.5
BERM=679.0 GRAVEL LAYER=674.0
DRAWDOWN WITHIN 48 HRS

OUTLET CONTROL STRUCTURE
INV=672.50
7" RESTRICTOR

674
676

24" RCP (MIN.)

30" RCP (MIN.)

ELGIN O'HARE EXPY W.B.

15" RCP

D12-EX-2 0.48 AC-FT OF FILL
MITIGATED IN ILRT83 NW

ELGIN O'HARE EXPY E.B.

INV=693.00

DETENTION SITE: ILRT83 SE
AVAILABLE DETENTION: 1.06 AC-FT
HWL=675.0 NWL=671.0
BERM=676.0 GRAVEL LAYER=672.0
DRAWDOWN WITHIN 48 HRS

INV.=672.00

OUTLET CONTROL STRUCTURE
INV=671.00
7.5" RESTRICTOR

672
675

RAMP O3

DETENTION SITE: ILRT83 SW
AVAILABLE DETENTION: 0.86 AC-FT
HWL=673.0 NWL=671.36
BERM=676.0 GRAVEL LAYER=672.0
DRAWDOWN WITHIN 48 HRS

INV=672.50

672

RESTRICTOR SHOWN IN RECORD DRAWINGS

TRIBUTARY TO OUTLET
WL 25/26/27

OUTLET CONTROL STRUCTURE
INV=671.36
17.2" RESTRICTOR

EB FRONTAGE RD – NO

D12-EX-1 2.27 AC-FT OF FILL
MITIGATED IN ILRT83 SW
AND D12-E

TRIBUTARY TO OUTLET
WL 15

IL-83

0 50' 100'

SEE SHEET 164

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

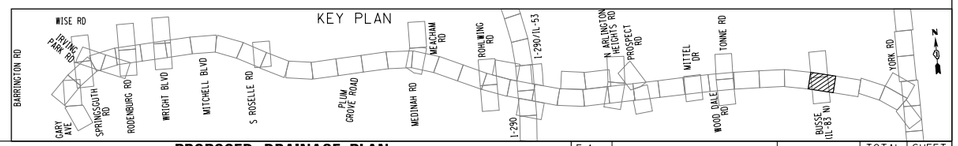
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -		CHRISTOPHER B. BURKE ENGINEERING, LTD.
	PLOT SCALE = 100'	CHECKED CW	REVISED -		
	PLOT DATE = 11/30/2012	DATE -	REVISED -		

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	34
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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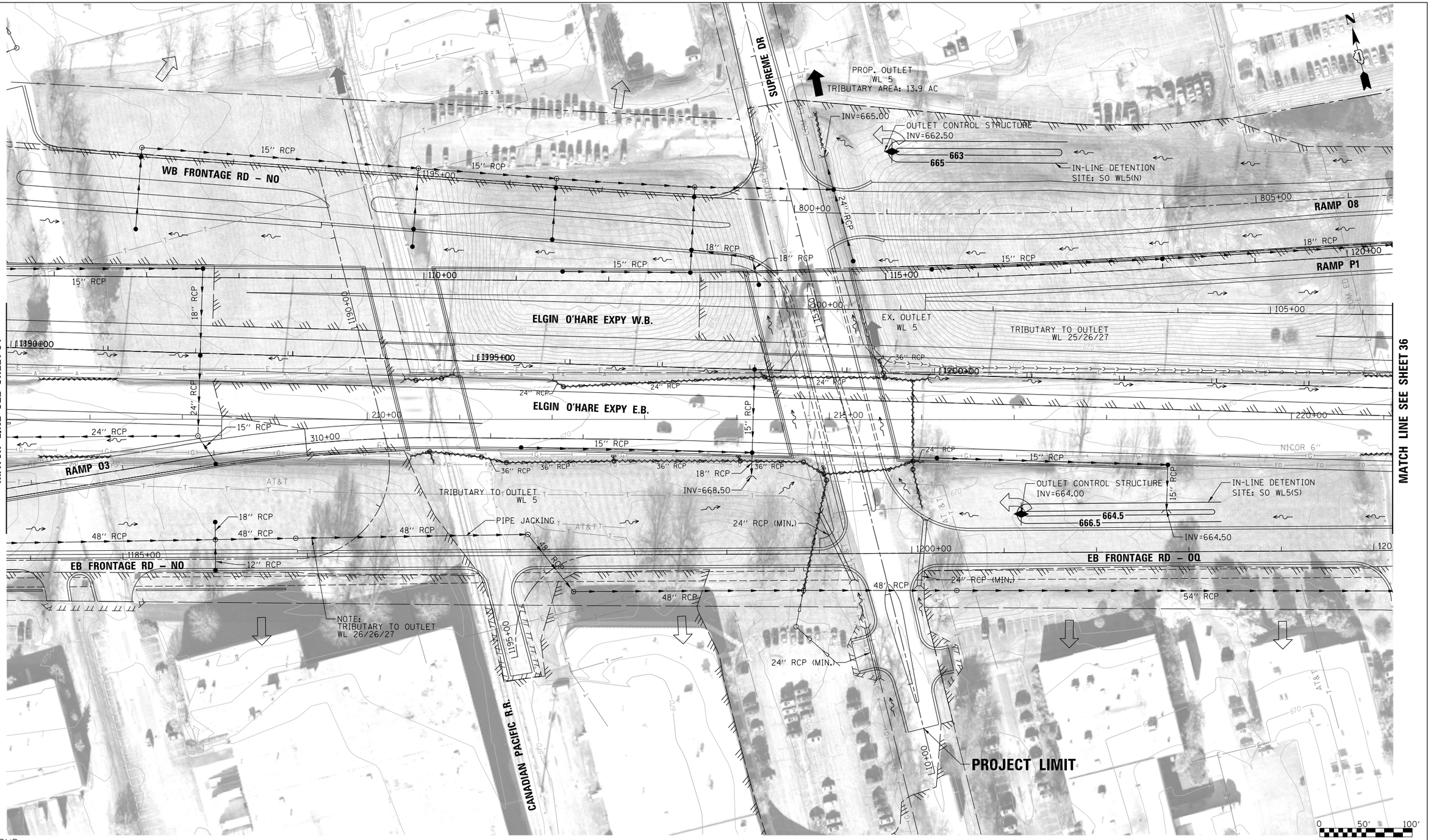


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	L430+00	L715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		T T T T T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

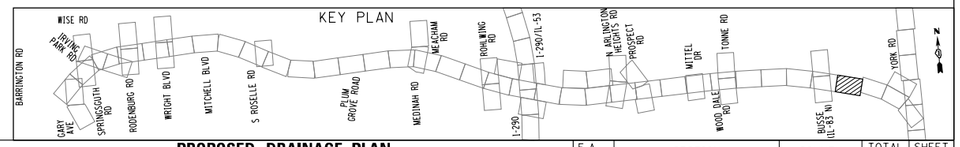
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	35
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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11:09:30 AM

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

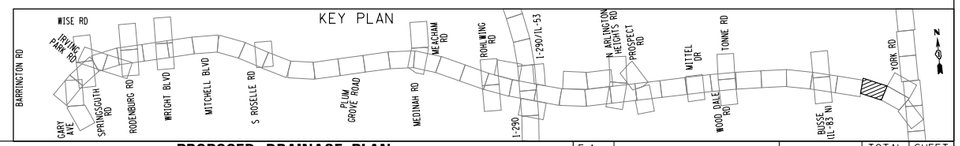
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	36
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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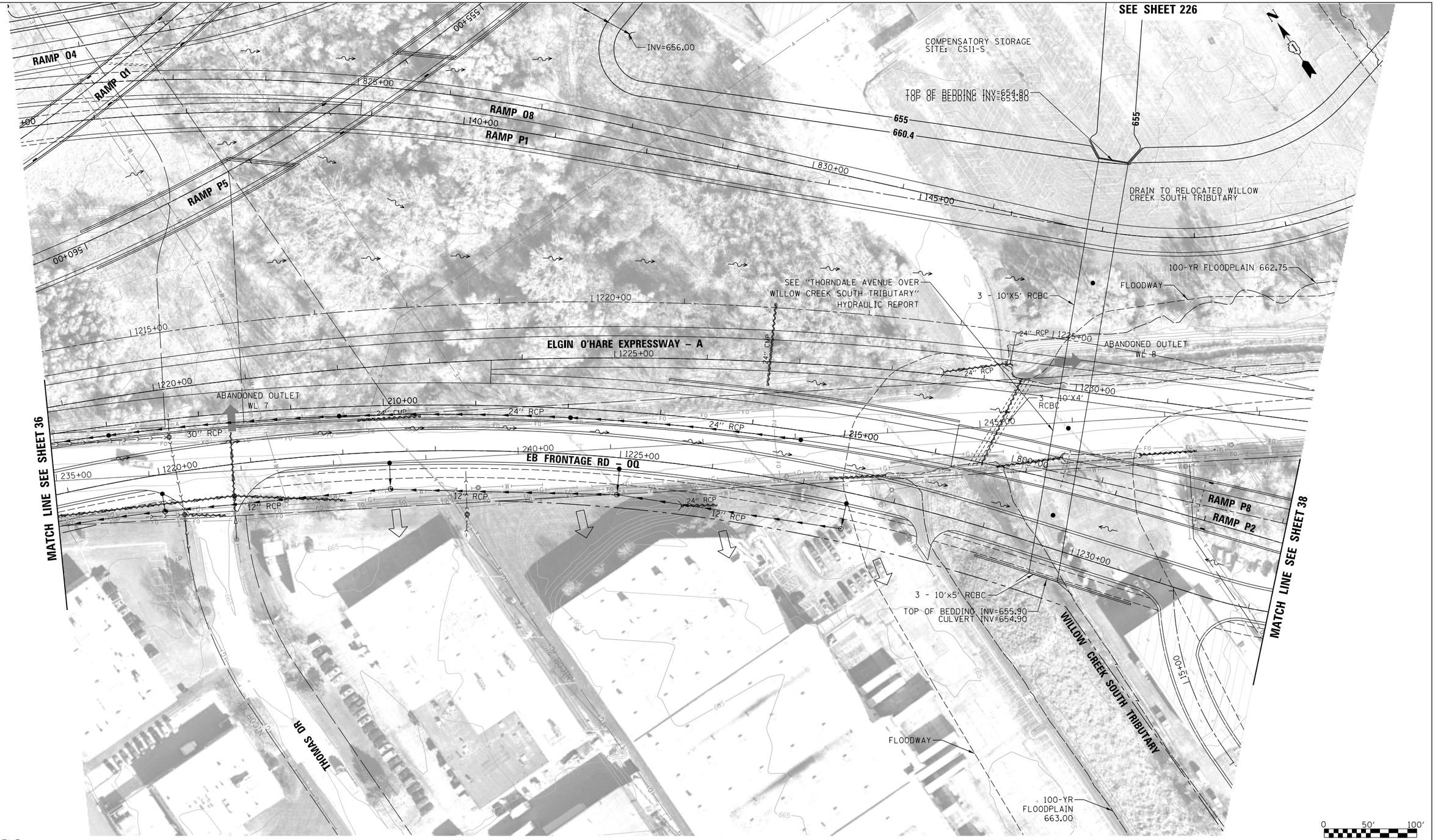


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

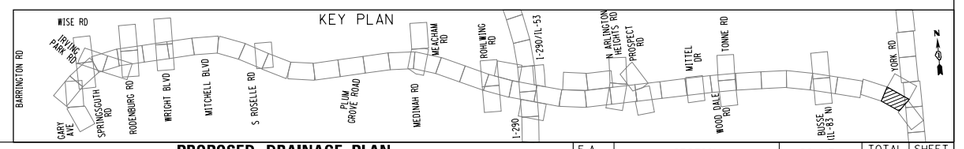
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	37
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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9:57:23 AM

SEE SHEET 138

MATCH LINE SEE SHEET 37

SEE SHEET 137

FLOODWAY

RAMP P1

150+00

ABANDONED OUTLET
WL 9

24" RCP (MIN.)

100-YR FLOODPLAIN
662.42

250+00

1230+00

1235+00

ELGIN - O'HARE EXPRESSWAY - A

1240+00

600+00

1250+00

OUTLET CONTROL
STRUCTURE
INV=658.00
6" RESTRICTOR

EB FRONTAGE RD - OO

805+00

RAMP P8

RAMP P2

N YORK RD

230+00

225+00

910+00

220+00

DETENTION SITE: D7-S3
AVAILABLE DETENTION: 8.26 AC-FT
HWL=663.0 NWL=659.0
BERM=666.0
DOES NOT DRAWDOWN WITHIN 48 HRS

659

664

610+00

15" RCP

1260+00

900+00

254+00

24" RCP (MIN.)

FLOODWAY

100-YR FLOODPLAIN 663.00

RAMP 09

905+00

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

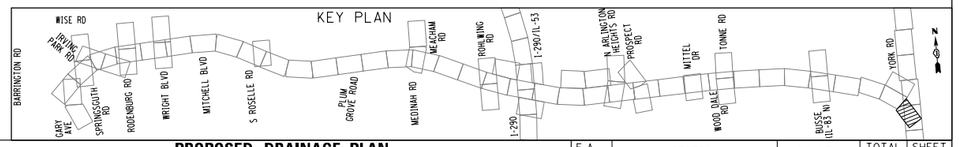
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	38
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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SEE SHEET 22

OUTLET CONTROL STRUCTURE
W/ 6" RESTRICTOR
INV=700.00

24" RCP

24" RCP

INV=699.10

12" RESTRICTOR

4" RCP

105+00

INV=697.06

EX. OUTLET
SLT 6
TRIBUTARY AREA: 28.5 AC

699 699 698 697 696 694

DETENTION SITE: D6-S
AVAILABLE DETENTION: 10.73 AC-FT
HWL=703.9 NWL=700.0
BERM=708.0
DOES NOT DRAWDOWN WITHIN 48 HRS

42" RCP

RAMP K4

D6-EX-2
0.10 AC-FT OF FILL
MITIGATED IN D6-S

697 696 695

TOP OF BEDDING INV=703.50
CULVERT INV=702.50

701
705

310+00

RAMP G3

615+00

405+00

100+00

4' X 4' BOX CULVERT

TOP OF BEDDING INV=703.60
CULVERT INV=702.60

INV=(704.10)

RAMP G5

TRIBUTARY TO OUTLET SLT 15

415+00

RAMP G4

530+00

INV=(706.02)

42" RCP

420+00

I-290 2
DA = 22.4 Ac

I-290 E.B.

I-290 W.B.

24" RCP

INV=713.10

15" RCP

525+00

15" RCP

600+00

18" RCP

TRIBUTARY TO OUTLET
SLT 6

TRIBUTARY TO OUTLET
SLT 12

COMCAST

E COMED

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

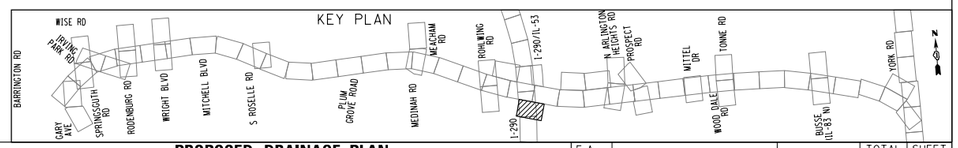
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	39
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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9:57:52 AM

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.____
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.____
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_EOPFI_FullBuild.dgn 9:57:57 AM

845 840 835 830 825 820 815 810 805 800 795 790 785 780

℄ SPRINGINSGUTH RD

EX EB PGL
PR EB PGL
PR WB PGL
EX WB PGL
EX WB PGL

60" RCP
INV.=789.19

	720+00	721+00	722+00	723+00	724+00	725+00	726+00	727+00	728+00	729+00	730+00	731+00	732+00	733+00	734+00	735+00
	818.18	819.21	EX WB 820.18	820.32	821.08	821.43	822.09	822.54	823.25	823.65	824.26	824.76	825.27	825.87	826.32	826.98
	818.16	819.30	EX EB 820.36	PR EB 822.15	821.14	822.85	821.92	823.39	822.61	823.80	823.32	824.30	824.12	824.94	824.92	825.70
	820.28	821.30														

	827.41	828.09	828.89	829.20	828.15	828.74	829.21	829.89	830.37	831.03	831.40	832.18	833.32	833.55	834.37	834.59	835.87	836.64	838.40	839.51	837.85	838.26	838.55	838.88	839.08	839.38	839.42	839.75	839.68	840.01	839.81	840.13	839.83	840.14	839.61	840.02	839.34	839.78	839.05	839.41	838.57	838.98	838.12	838.55
	825.79	826.59	827.22	827.61	828.15	828.74	829.21	829.89	830.37	831.03	831.40	832.18	809.70	833.33	809.26	834.48	834.48	835.56	835.08	836.51	835.87	837.33	836.58	838.02	837.14	838.58	837.50	839.00	837.94	839.30	838.00	839.47	837.88	839.50	837.72	839.41	837.54	839.18	837.20	838.82	836.88	838.40	836.28	837.98

KEY PLAN

TRUMP PARK RD
CARY AVE
SPRINGSOUTH RD
ROSENBURG RD
WRIGHT BLVD
MITCHELL BLVD
S ROSELLE RD
PLUM GROVE ROAD
MEACHAM RD
MEDINAH RD
ROMEO RD
I-290
I-290
N ARLINGTON HEIGHTS RD
PROSPECT RD
WITTEL DR
WOOD DALE RD
TOWNE RD
BUSSE RD
IL-83 NB
YORK RD

FILE NAME = DIEOWB-sht-pr-drainprof_EOPFI_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -	ELGIN O'HARE WEST BYPASS communities. opportunities. solutions.	Illinois Department of Transportation
		DRAWN MYG	REVISED -		
	PLOT SCALE = 100'	CHECKED CW	REVISED -		CHRISTOPHER B. BURKE ENGINEERING, LTD.
	PLOT DATE = 11/30/2012	DATE -	REVISED -		

PROPOSED DRAINAGE PROFILE
WEST BRANCH DUPAGE RIVER WATERSHED
ELGIN O'HARE EXPRESSWAY

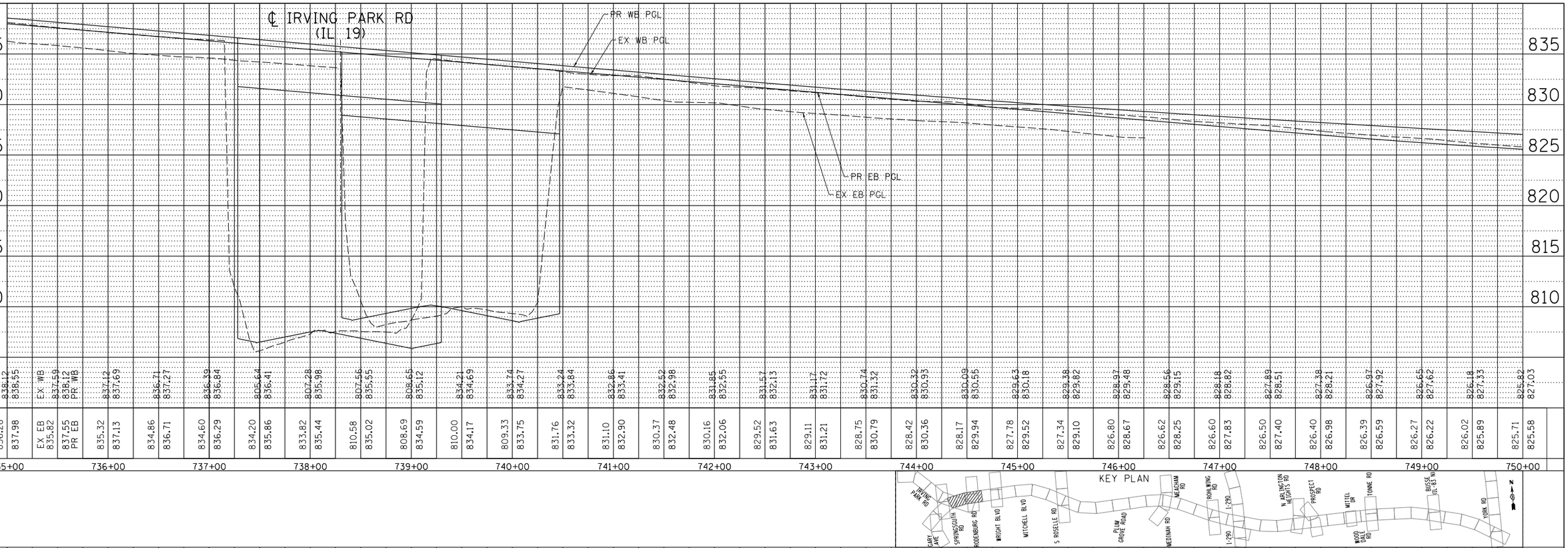
SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	40
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

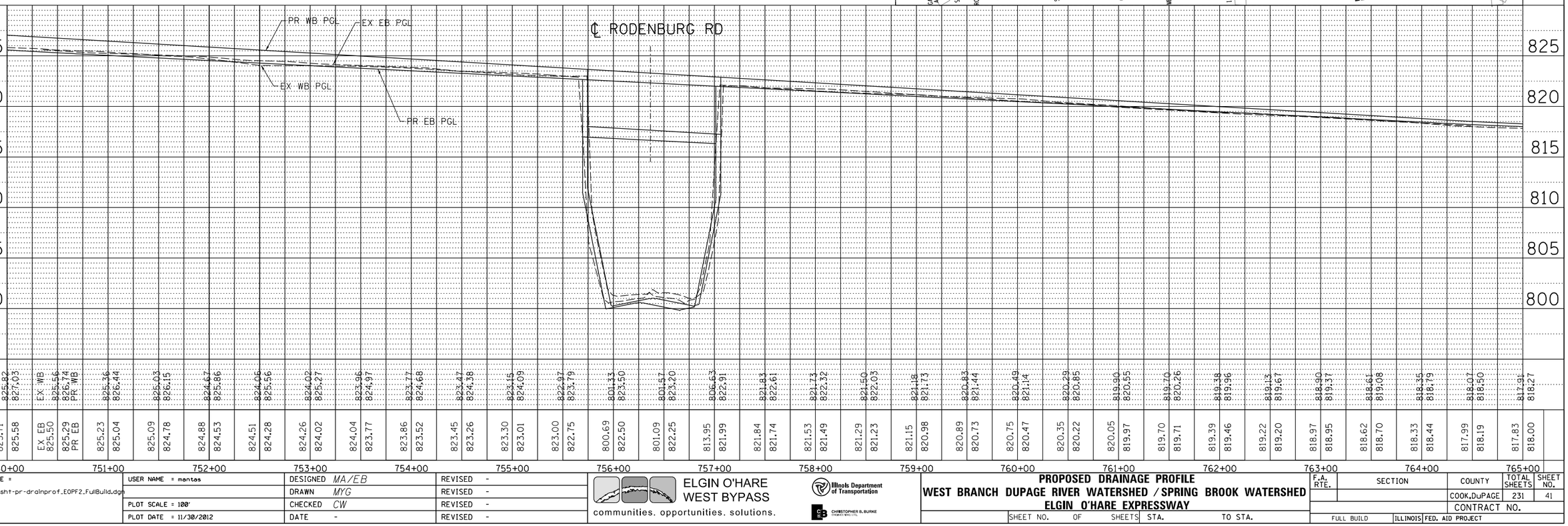
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
SLM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric Full Build\sheets\DEOWB-sht-pr-drainprof_EOPF2_FullBuild.dgn 9:58:03 AM



	735+00	736+00	737+00	738+00	739+00	740+00	741+00	742+00	743+00	744+00	745+00	746+00	747+00	748+00	749+00	750+00
	838.12	838.55														
	EX WB	837.69														
	837.55	838.12														
	PR EB	PR WB														
	836.28	837.98	EX EB 835.82	837.55 PR EB	835.32	837.13	834.86	836.71	834.60	836.29	834.20	835.86	833.82	835.44	810.58	835.02	808.69	834.59	810.00	834.17	809.33	833.75	831.76	833.32	831.10	832.90	830.37	832.48	830.16	832.06	829.52	831.63	829.11	831.21	828.75	830.79	828.42	830.36	828.17	829.94	827.78	829.52	827.34	829.10	826.80	828.67	826.62	828.25	826.60	827.83	826.50	827.40	826.40	826.98	826.39	826.59	826.27	826.22	826.02	825.89	825.71	825.58



	750+00	751+00	752+00	753+00	754+00	755+00	756+00	757+00	758+00	759+00	760+00	761+00	762+00	763+00	764+00	765+00
	825.82	827.03														
	EX WB	825.56														
	826.74	825.29														
	PR WB	PR EB														
	825.71	825.58	EX EB 825.50	825.29 PR EB	825.23	825.04	825.09	824.78	824.88	824.53	824.51	824.28	824.26	824.02	824.04	823.77	823.86	823.52	823.45	823.26	823.30	823.01	823.00	822.75	800.69	822.50	801.09	822.25	813.95	821.99	821.84	821.74	821.53	821.49	821.29	821.23	821.15	820.98	820.89	820.73	820.75	820.47	820.35	820.22	820.05	819.97	819.70	819.71	819.39	819.46	819.22	819.20	818.97	818.95	818.62	818.70	818.33	818.44	817.99	818.19	817.83	818.00

FILE NAME = DEOWB-sht-pr-drainprof_EOPF2_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

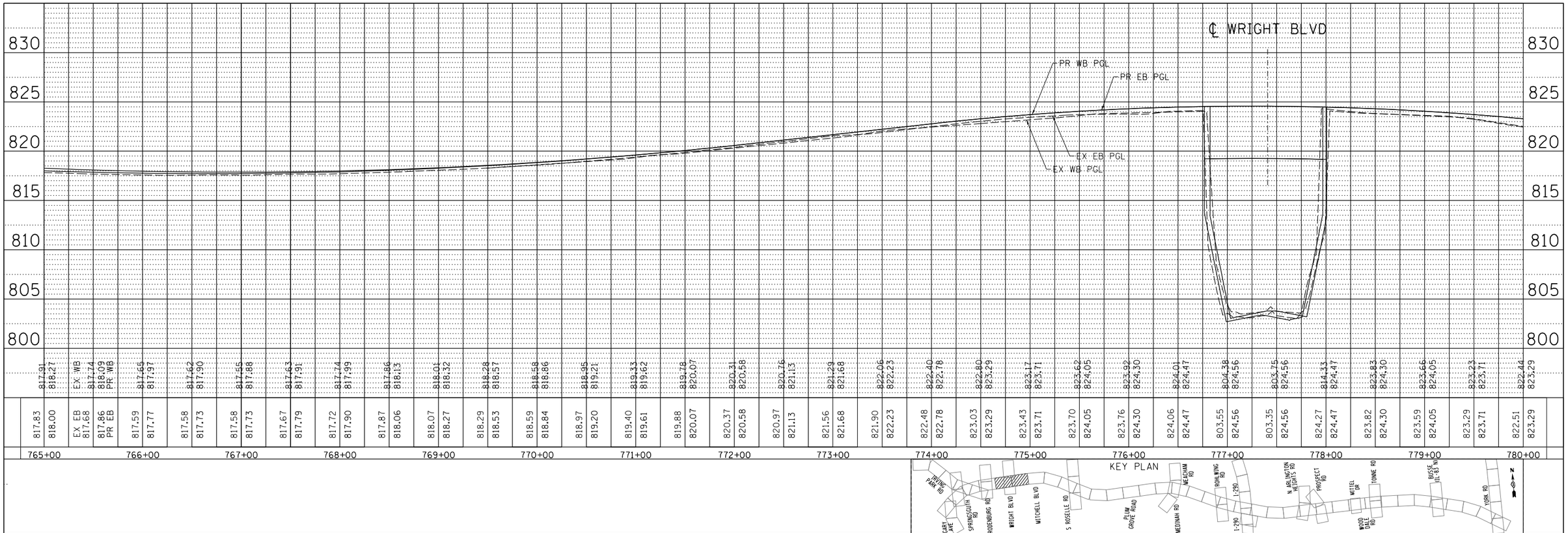
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
WEST BRANCH DUPAGE RIVER WATERSHED / SPRING BROOK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	41
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE



	765+00	766+00	767+00	768+00	769+00	770+00	771+00	772+00	773+00	774+00	775+00	776+00	777+00	778+00	779+00	780+00
	817.83	817.59	817.58	817.58	817.67	817.72	817.87	818.07	818.29	818.59	818.97	819.40	819.88	820.37	820.97	821.56	821.90	822.48	823.03	823.43	823.70	823.76	824.06	803.55	803.35	824.27	823.82	823.59	823.29	822.51
	818.00	817.77	817.73	817.73	817.79	817.90	818.06	818.27	818.53	818.84	819.20	819.61	820.07	820.58	821.13	821.68	822.23	822.78	823.29	823.71	824.05	824.30	824.47	824.56	824.56	824.47	824.30	824.05	823.71	823.29
EX EB	817.68																													
PR EB	817.86																													
EX WB	818.09																													
PR WB	822.78																													

PROFILE
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ALIGNMENT CHECKED
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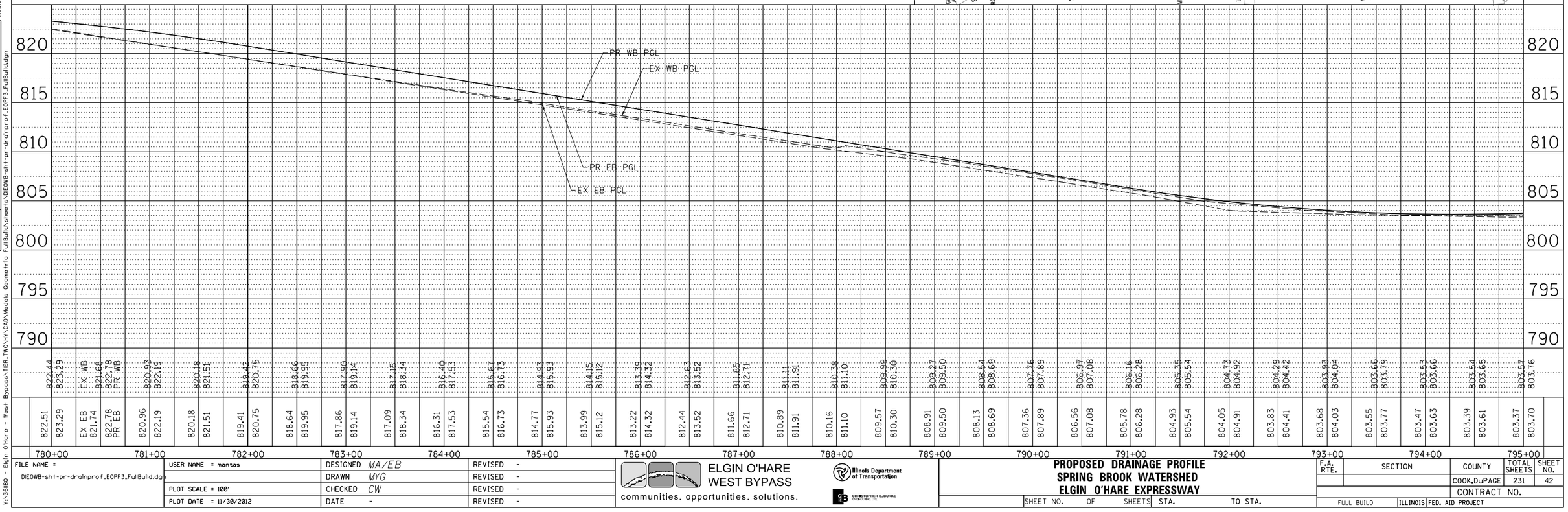
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



	780+00	781+00	782+00	783+00	784+00	785+00	786+00	787+00	788+00	789+00	790+00	791+00	792+00	793+00	794+00	795+00
	822.51	820.96	820.18	819.41	818.64	817.86	817.09	816.31	815.54	814.77	813.99	813.22	812.44	811.66	810.89	810.16	809.57	808.91	808.13	807.36	806.56	805.78	804.93	804.05	803.83	803.68	803.55	803.47	803.39	803.37
	823.29	822.19	821.51	820.75	819.95	819.14	818.34	817.53	816.73	815.93	815.12	814.32	813.52	812.71	811.91	811.10	810.30	809.50	808.69	807.89	807.08	806.28	805.54	804.91	804.41	804.03	803.79	803.63	803.61	803.70
EX EB	821.74																													
PR EB	822.78																													
EX WB	821.68																													
PR WB	822.44																													

FILE NAME =	USER NAME = mantas	DESIGNED MA/EB	REVISED -
DIEOWB-sht-pr-drainprof_EOPF3_FullBuild.dgn		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
SPRING BROOK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	42
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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PLAN
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PLOTTED
CROSS CHECKED
NOTE BOOK
NO.____
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.____
BM. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

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℄ MITCHELL BLVD

PR WB PGL
EX WB PGL
PR EB PGL
EX EB PGL

℄ CP RAILWAY SPUR

8'x6' RCBC
INV.= 792.12

825 820 815 810 805 800 795 790

	795+00	796+00	797+00	798+00	799+00	800+00	801+00	802+00	803+00	804+00	805+00	806+00	807+00	808+00	809+00	810+00
	803.57	EX WB 803.70	803.92	804.37	805.49	806.59	807.06	807.99	809.50	810.81	811.93	812.97	814.12	815.21	816.46	817.76
	803.76		804.36	804.84	805.44	806.17	807.01	807.98	809.07	810.23	811.38	812.53	813.69	814.84	815.99	817.14
	803.37	EX EB 803.72	804.07	804.54	805.27	806.00	806.86	807.78	808.61	809.41	810.30	811.37	812.44	813.50	814.54	815.78
	803.70		804.27	804.73	805.31	806.01	806.83	807.78	808.84	809.96	811.09	812.21	813.33	814.46	815.58	816.71

	818.94	819.86	820.80	800.41	805.42	823.70	824.68	825.53	825.94	826.75	827.25	827.72	803.51	803.18	828.36
	818.30	819.45	820.60	821.76	822.86	823.86	824.76	825.56	826.26	826.86	827.35	827.75	828.04	828.24	828.33
	817.27	818.39	819.12	800.30	804.23	822.64	823.31	824.37	824.84	825.36	825.87	826.38	806.57	798.09	817.77
	817.83	818.95	820.08	821.20	822.27	823.25	824.12	824.90	825.57	826.15	826.63	827.00	827.28	827.46	827.54

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.____
BM. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

KEY PLAN

TRVING PARK RD · GARY AVE · SPRINGCSOUTH RD · RIDGEMBURG RD · WRIGHT BLVD · WITCHELL BLVD · S ROSELLE RD · PLUM GROVE ROAD · MEACHAM RD · MEDINAH RD · ROMEING RD · I-290 · I-290 · N ARLINGTON HEIGHTS RD · PROSPECT RD · WITTEL DR · WOOD DALE RD · TONNE RD · BUSSE (IL-83 N) · YORK RD · N

EX WB PGL
PR WB PGL
PR EB PGL
EX EB PGL

830 825 820 815 810 805 800

	810+00	811+00	812+00	813+00	814+00	815+00	816+00	817+00	818+00	819+00	820+00	822+00	823+00	824+00
	828.36	EX WB 828.12	827.95	827.77	827.63	827.06	826.38	825.78	824.90	824.29	823.30	822.40	821.40	820.31	819.28	818.21
	828.33		828.21	828.00	827.69	827.28	826.77	826.15	825.44	824.62	823.71	822.69	821.62	820.56	819.49	818.42
	817.77	EX EB 827.19	826.94	826.68	826.41	825.94	825.39	824.68	823.94	823.37	822.33	821.33	820.23	819.18	818.19	817.10
	827.54		827.40	827.18	826.86	826.44	825.92	825.31	824.59	823.77	822.86	821.84	820.77	819.71	818.64	817.58

	817.15	816.23	815.12	813.91	812.76	811.71	810.55	809.43	808.41	807.48	806.46	805.04	803.99	802.86	801.74
	817.36	816.29	815.22	814.16	813.09	812.03	810.96	809.89	808.83	807.76	806.70	805.63	804.56	803.50	802.43
	816.04	815.03	813.88	812.92	811.77	810.61	809.61	808.61	807.66	806.81	805.89	804.91	803.75	EX EB 802.78	801.67
	816.51	815.45	814.38	813.32	812.25	811.18	810.12	809.05	807.99	807.03	805.97	804.90	803.83	PR EB 802.77	801.70

FILE NAME =	USER NAME = mantas	DESIGNED MA/EB	REVISED -
DIEOWB-sht-pr-drainprof_EOPF4_FullBuild.dgn		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
SPRING BROOK WATERSHED / MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	43
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
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STRUCTURE NOTATNS CHKD
NOTE BOOK
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DATE

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795 790 785 780 775 770 765 760 755

10' x 4' RCBC
INV.=783.34

PR EB PGL
EX EB PGL
PR WB PGL
EX WB PGL

Inv. El. 777.10 Out
Rim El. 780.12

Inv. El. 769.70 In
Inv. El. 769.90 Out
Rim El. 774.74

℄ ROSELLE RD

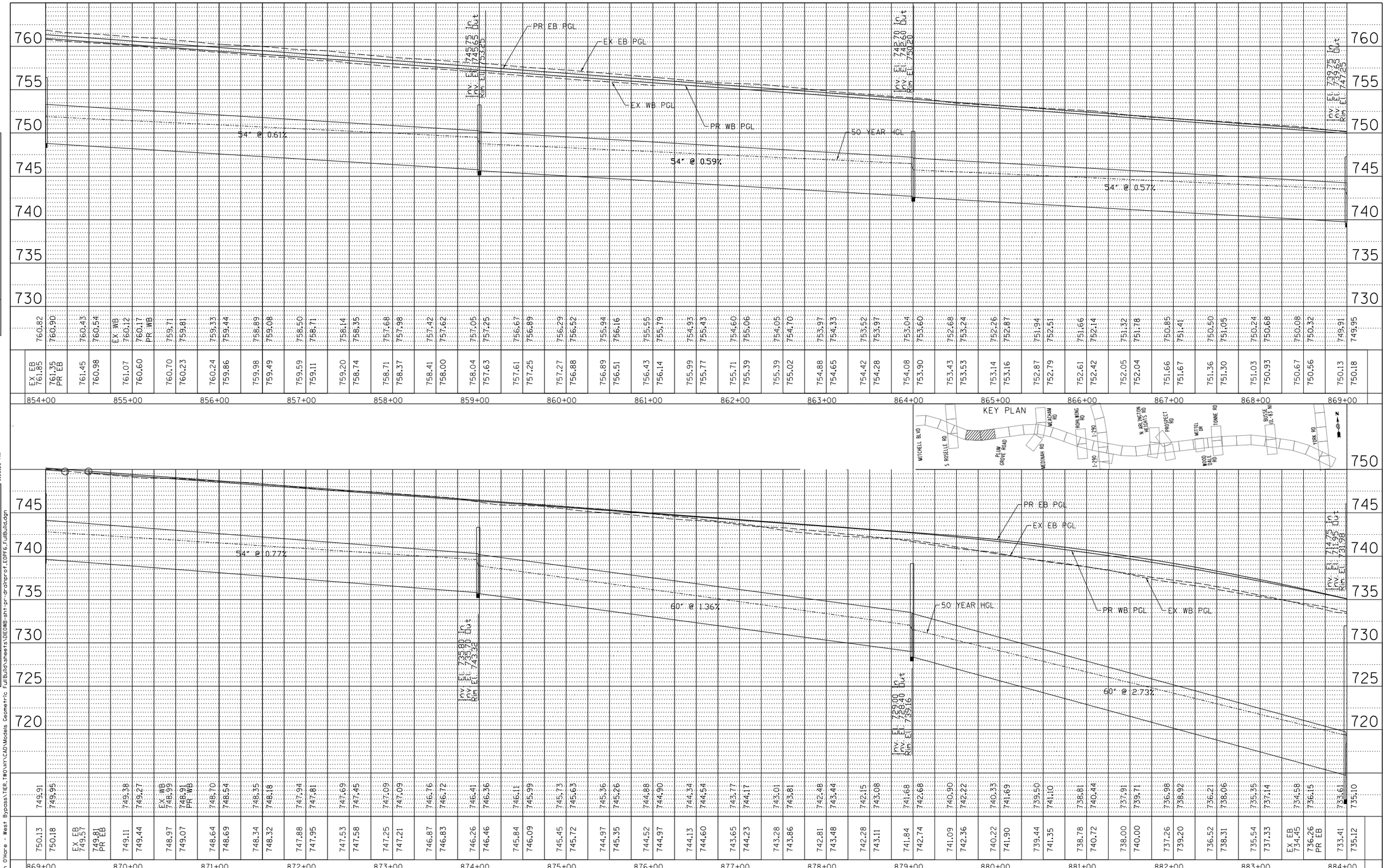
Inv. El. 760.15 In
Inv. El. 760.05 Out
Rim El. 766.90

50 YEAR HGL

24" @ 0.16%

42" @ 0.55%

| | | |



PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

PROFILE

	BY	DATE
SURVEYED		
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PROFILE CHECKED		
ELM. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		

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FILE NAME = DIEOWB-sht-pr-drainprof_EOPF6_FullBuild.dgn

USER NAME = mantas	DESIGNED MA/EB	REVISED -
	DRAWN MYG	REVISED -
PLOT SCALE = 100'	CHECKED CW	REVISED -
PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	45
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN

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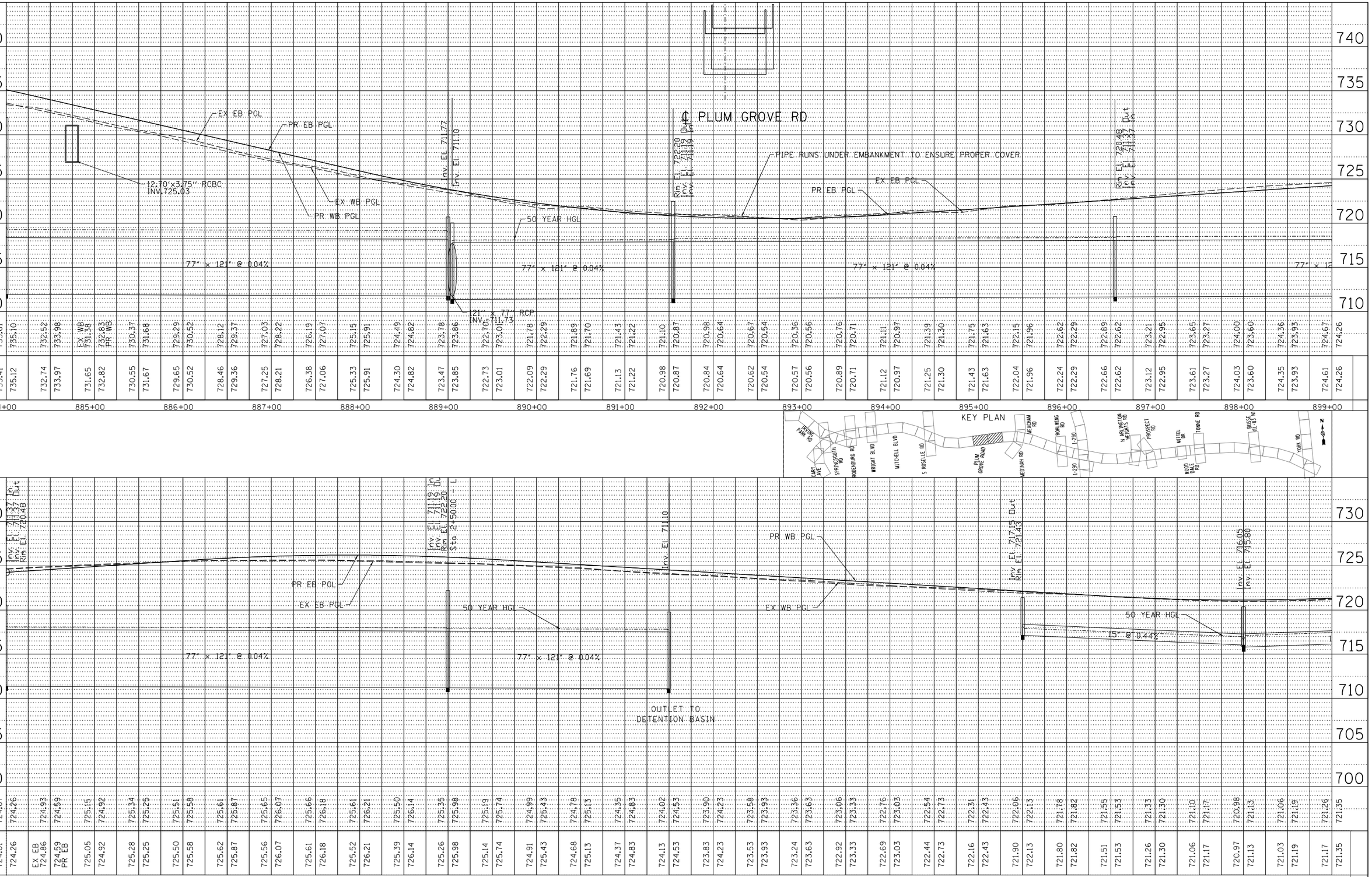
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	

NOTE BOOK
NO.

BY	DATE



733.61	735.10	732.52	733.98	EX WB 731.38 PR WB 732.85	730.37	731.68	729.29	730.52	728.12	729.37	727.03	728.22	726.19	727.07	725.15	725.91	724.49	724.82	723.78	723.86	722.70	723.01	721.78	722.29	721.83	721.70	721.43	721.22	721.10	720.87	720.98	720.64	720.67	720.54	720.56	720.56	720.76	720.71	721.11	720.97	721.39	721.30	721.75	721.63	722.15	721.96	722.62	722.29	722.89	722.62	723.21	722.95	723.65	723.27	724.00	723.60	724.36	723.93	724.67	724.26
733.41	735.12	732.74	733.97	731.65	732.82	730.55	731.67	729.65	730.52	728.46	729.36	727.25	728.21	726.38	727.06	725.33	725.91	724.30	724.82	723.47	723.85	722.73	723.01	722.09	722.29	721.76	721.69	721.13	721.22	720.98	720.87	720.84	720.64	720.62	720.54	720.57	720.56	720.89	720.71	721.12	720.97	721.25	721.30	721.43	721.63	722.04	721.96	722.24	722.29	722.66	722.62	723.12	722.95	723.61	723.27	724.03	723.60	724.35	723.93	724.61	724.26

884+00 885+00 886+00 887+00 888+00 889+00 890+00 891+00 892+00 893+00 894+00 895+00 896+00 897+00 898+00 899+00

KEY PLAN

PROFILE

SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
CROSS SECT. CHECKED	
SUM. NOTED	
STRUCTURE NOTATNS CHKD	

NOTE BOOK
NO.

BY	DATE

724.67	724.26	724.93	724.59	725.15	724.92	725.34	725.25	725.51	725.58	725.61	725.87	725.65	726.07	725.66	726.18	725.61	726.21	725.50	726.14	725.35	725.98	725.19	725.74	724.99	725.43	724.78	725.13	724.35	724.83	724.02	724.53	723.90	724.23	723.58	723.93	723.36	723.63	723.06	723.33	722.76	723.03	722.54	722.73	722.31	722.43	722.06	722.13	721.78	721.82	721.55	721.53	721.33	721.30	721.10	721.17	720.98	721.13	721.06	721.19	721.26	721.35
724.61	724.26	EX EB 724.86 PR EB 724.59		725.05	724.92	725.28	725.25	725.50	725.58	725.62	725.87	725.56	726.07	725.61	726.18	725.52	726.21	725.39	726.14	725.26	725.98	725.14	725.74	724.91	725.43	724.68	725.13	724.37	724.83	724.13	724.53	723.83	724.23	723.53	723.93	723.24	723.63	722.92	723.33	722.69	723.03	722.44	722.73	722.16	722.43	721.90	722.13	721.80	721.82	721.51	721.53	721.26	721.30	721.06	721.17	720.97	721.13	721.03	721.19	721.17	721.35

900+00 901+00 902+00 903+00 904+00 905+00 906+00 907+00 908+00 909+00 910+00 911+00 912+00 913+00 914+00 915+00

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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PROFILE
MEACHAM CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	46
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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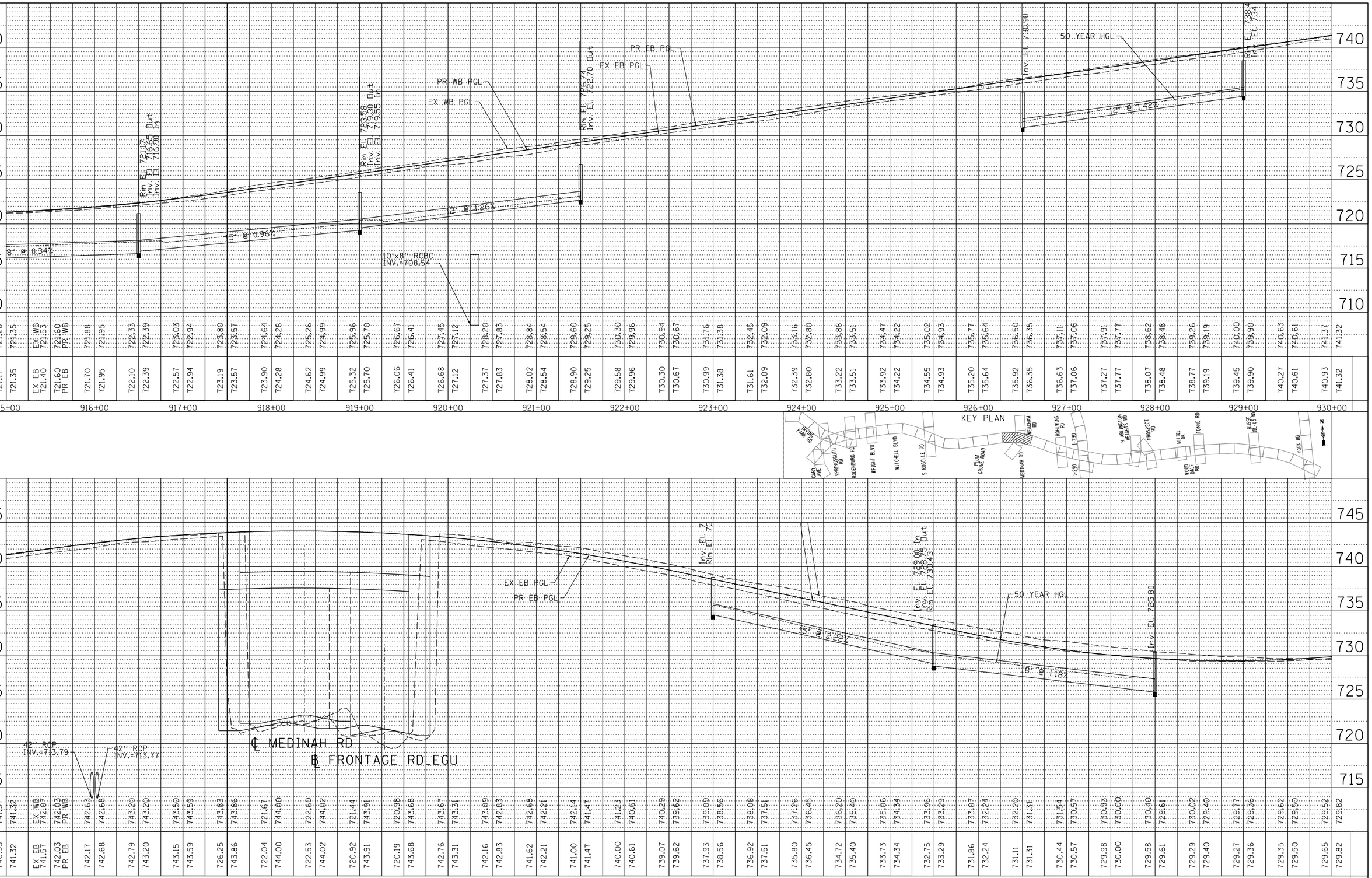
PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		

NOTE BOOK
NO.



KEY PLAN

PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
DRAWN		
CHECKED		
S.M. NOTED		
STRUCTURE NOTATNS CHKD		

NOTE BOOK
NO.

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PROFILE
WEST BRANCH DUPAGE RIVER WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	47
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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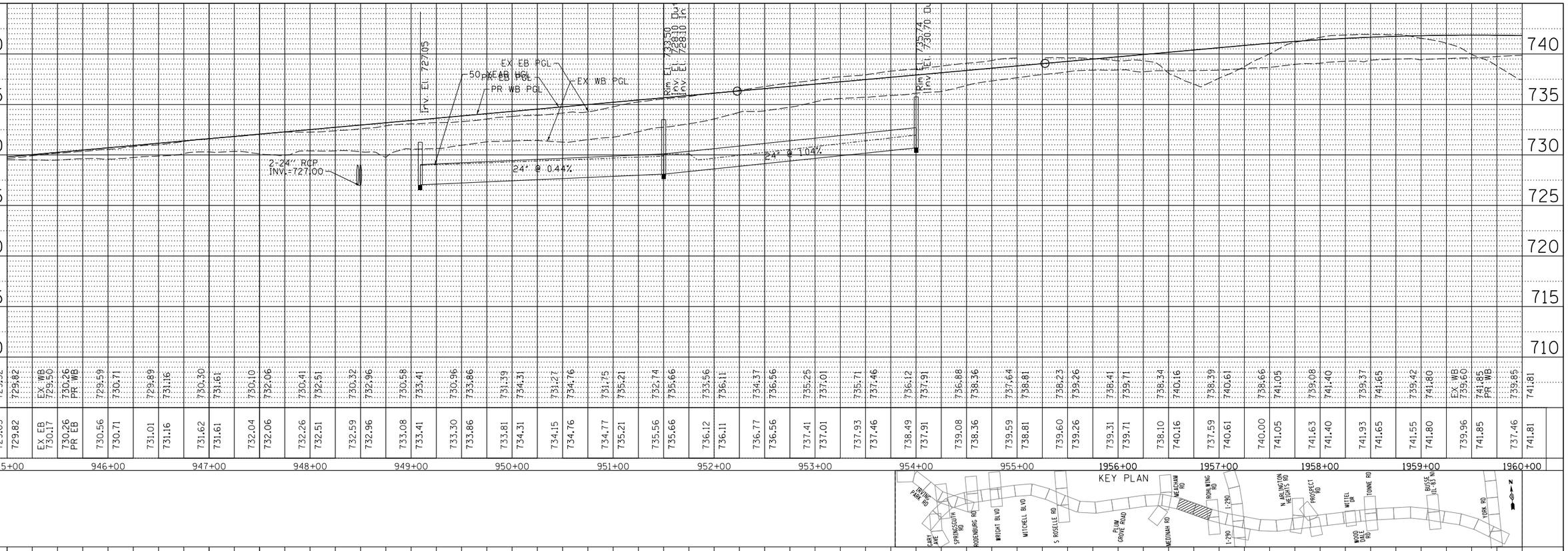

740	735	730	725	720	715	710

| | | |

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
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GRADES CHECKED
SUM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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℄ ROHLWING RD
(IL 53)

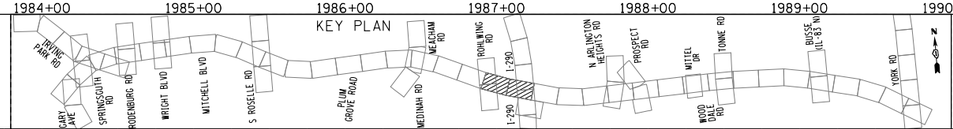
PR EB PGL
PR WB PGL
EX EB PGL
EX WB PGL

Inv. El. 708.85
4.37%
OUTLET TO
4'x5' RCBC

6'x3' RCBC
TOP OF BEDDING INV=704.00
CULVERT INV=703.00

720.45	724.03	721.20	723.39	EX WB 721.03	PR WB 722.74	720.34	722.10	719.65	721.46	718.57	720.82	719.53	720.17	716.12	719.53	716.07	718.97	716.45	718.57	718.66	718.33	719.97	718.25	720.37	718.34	718.63	718.58	716.37	718.99	705.91	719.56	706.90	720.21	706.72	720.86	706.54	721.51	706.36	722.16	706.18	722.81	706.00	723.46	705.82	724.11	705.64	724.76	705.46	725.37	705.28	725.90	711.07	726.35	715.75	726.71	720.53	727.04	720.75	727.36	710.87	727.69
720.16	724.03	721.07	723.39	EX EB 720.96	PR EB 722.74	720.54	722.10	720.54	721.46	720.48	720.82	719.45	720.17	718.64	719.53	717.24	718.97	716.69	718.57	716.23	718.33	715.74	718.25	715.30	718.34	715.02	718.58	714.83	718.99	714.71	719.56	714.75	720.21	714.92	720.86	715.24	721.51	715.64	722.16	716.27	722.81	716.92	723.46	717.48	724.11	718.14	724.76	718.87	725.37	719.43	725.91	720.07	726.38	720.70	726.77	721.25	727.13	721.90	727.48	722.52	727.84

1975+00 1976+00 1977+00 1978+00 1979+00 1980+00 1981+00 1982+00 1983+00 1984+00 1985+00 1986+00 1987+00 1988+00 1989+00 1990+00

KEY PLAN


℄ RAMP G5

℄ RAMP G1

℄ I-290

PR EB PGL
PR WB PGL
EX WB PGL
EX EB PGL

6'x4' RCBC
TOP OF BEDDING INV=708.82
CULVERT INV=707.82

710.87	727.69	EX WB 709.64	PR WB 728.01	721.22	728.34	724.13	728.66	719.95	728.99	715.71	729.32	719.86	729.64	724.58	729.97	726.21	730.29	726.25	730.62	726.48	730.94	726.92	731.27	727.77	731.59	728.62	731.92	729.19	732.24	729.47	732.57	729.87	732.90	716.85	733.21	706.86	733.42	707.01	733.47	706.76	733.37	707.15	733.12	712.04	732.71	730.50	732.15	730.21	731.45	729.90	730.71	729.45	729.97	728.89	729.23	728.48	728.49	728.07	727.75	727.58	727.01
722.52	727.84	EX EB 723.08	PR EB 728.20	723.44	728.55	723.94	728.91	724.21	729.27	724.33	729.62	724.82	729.98	724.88	730.33	724.67	730.69	725.07	731.05	725.05	731.40	725.14	731.76	725.13	732.11	725.08	732.47	725.06	732.83	724.73	733.18	724.24	733.54	721.16	733.89	713.39	734.19	707.49	734.31	708.16	734.28	707.21	734.09	708.07	733.73	706.97	733.21	719.83	732.53	721.12	731.75	721.76	730.97	722.32	730.20	722.15	729.42	721.86	728.64	721.70	727.86

1990+00 1991+00 1992+00 1993+00 1994+00 1995+00 1996+00 1997+00 1998+00 1999+00 2000+00 2001+00 2002+00 2003+00 2004+00 2005+00

FILE NAME =	USER NAME = mantas	DESIGNED MA/EB	REVISED -
DIEOWB-sht-pr-drainprof_EOPF10_FullBuild.dgn		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PROFILE
WEST BRANCH DUPAGE RIVER WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	49
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		

NOTE BOOK
NO.

PR EB PGL
EX EB PGL
50 YEAR HGL
EX WB PGL
PR WB PGL
EX WB PGL

Inv. El. 718.45 Out
Rim El. 722.47

Inv El 714.70 In
Inv El. 714.45 Out
Rim El. 718.72

Inv El 710.79 In
Inv El. 710.54 Out
Rim El. 715.05

Inv. El. 707.45

Inv. El. 705.50

24" @ 1.50%
15" @ 1.42%
18" @ 1.24%
30" @ 0.13%

	730	725	720	715	710	705	700
	727.58	727.01	EX WB 726.91	726.27 PR WB	726.29	725.53	725.71	724.79	725.14	724.05	724.40	723.31	723.73	722.57	722.99	721.83	721.96	721.09	721.14	720.35	720.26	719.61	719.36	718.87	718.60	718.13	717.93	717.39	716.95	716.65	716.05	715.91	715.32	715.17	714.62	714.43	713.77	713.69	713.07	712.96	712.26	712.34	711.51	711.87	710.62	711.54	709.69	711.37	708.55	711.34	707.46	711.46	706.06	711.73	704.36	712.03	703.02	712.33	701.32	712.63	699.12	712.93
	721.70	727.86	EX EB 722.57	727.08 PR EB	723.82	726.31	724.37	725.53	721.43	724.75	714.98	723.97	716.87	723.19	722.35	722.41	721.48	721.64	720.14	720.86	720.23	720.08	725.10	719.30	731.17	718.52	732.32	717.75	732.07	716.97	729.64	716.19	727.18	715.41	724.41	714.63	721.52	713.85	718.66	713.08	714.43	712.43	710.85	711.93	708.82	711.58	707.50	711.39	706.63	711.35	706.23	711.46	706.11	711.73	705.86	712.03	705.26	712.33	704.47	712.63	703.86	712.93
	2005+00	2006+00	2007+00	2008+00	2009+00	2010+00	2011+00	2012+00	2013+00	2014+00	2015+00	2016+00	2017+00	2018+00	2019+00	2020+00

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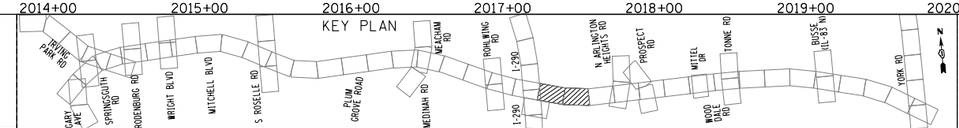

PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
PLANS CHECKED		
ILM. NOTED		
STRUCTURE NOTATNS CHKD		

NOTE BOOK
NO.

℄ PARK BLVD WEST

PR EB PGL
50 YEAR HGL
PR WB PGL
EX EB PGL
EX WB PGL

Rim El. 710.41
Inv El. 706.80
Inv El. 706.80

Rim El. 712.52
Inv El. 708.00 Out
Inv El. 708.25 In

Rim El. 714.64
Inv. El. 710.35

18" @ 0.48%
15" @ 0.84%

9'x4' RCBC
TOP OF BEDDING INV=689.57
CULVERT INV=689.57

	720	715	710	705	700	695	690
	699.12	712.93	EX WB 698.68	713.23 PR WB	698.33	713.53	698.21	713.83	697.45	714.13	696.82	714.43	695.87	714.73	695.20	715.03	694.75	715.33	694.46	715.63	694.28	715.93	693.78	716.23	691.48	716.53	692.13	716.83	693.57	717.13	693.86	717.43	694.21	717.72	694.71	717.92	695.19	717.96	695.31	717.85	691.37	717.59	693.02	717.17	694.00	716.61	693.92	715.89	696.56	715.03	696.66	714.11	696.65	713.20	696.15	712.28	694.22	711.37	694.20	710.45	694.86	709.54
	703.86	712.93	EX EB 703.26	713.23 PR EB	702.65	713.53	702.23	713.83	701.65	714.13	700.99	714.43	700.13	714.73	699.20	715.03	697.75	715.33	696.60	715.63	EX EB 695.50	715.93 PR EB	694.33	716.23	690.72	716.53	691.72	716.83	693.57	717.13	693.86	717.43	694.21	717.72	694.71	717.92	695.19	717.96	695.31	717.85	691.37	717.59	693.02	717.17	694.00	716.61	693.92	715.89	696.56	715.03	696.66	714.11	696.65	713.20	696.15	712.28	694.22	711.37	694.20	710.45	694.86	709.54
	2020+00	2021+00	2022+00	2023+00	2024+00	2025+00	2026+00	2027+00	2028+00	2029+00	2030+00	2031+00	2032+00	2033+00	2034+00	2035+00

FILE NAME = DIEOWB-sht-pr-drainprof_EOPFII_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
WEST BRANCH DUPAGE RIVER WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	50
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_EOPFII_FullBuild.dgn 9:58:52 AM

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
R/T. OF WAY CHECKED		
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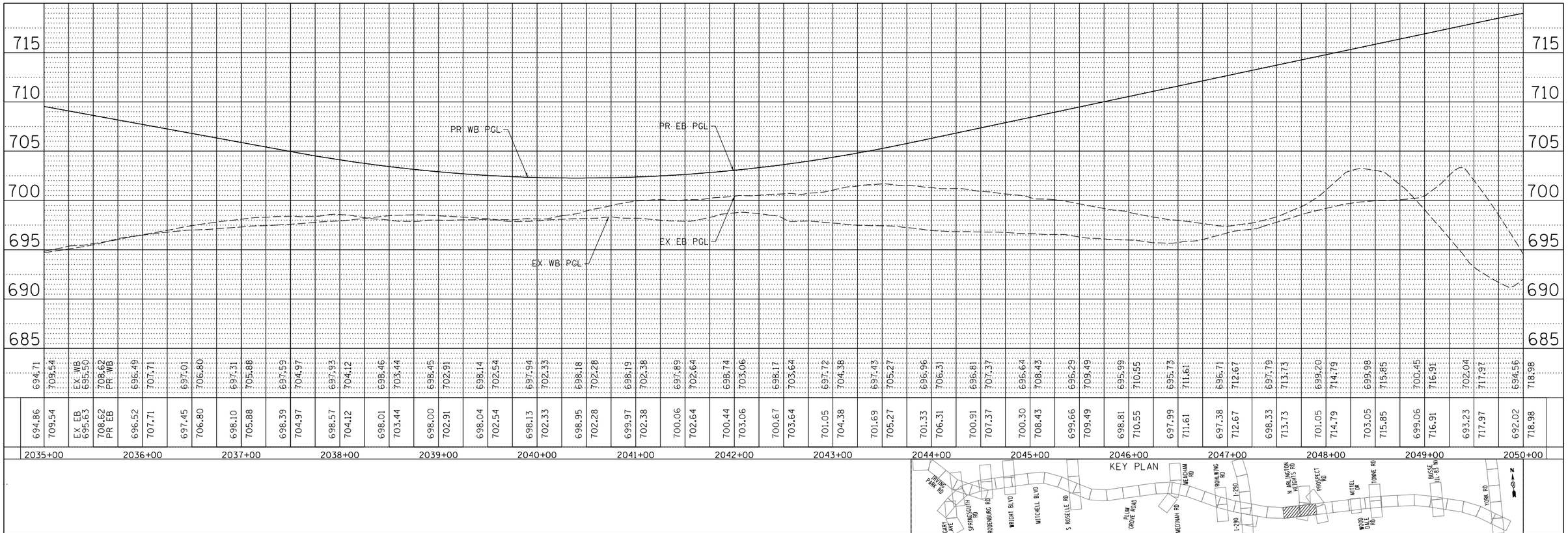
NOTE BOOK		
NO.		



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PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

℄ PROSPECT AVE

PR EB PGL

PR WB PGL

EX EB PGL

EX WB PGL

Inv. El. 677.13 Out
Rim El. 693.94
Sta. 14+00.00 - Ln 6

50 YEAR HGL

36" @ 0.10%

| | | |

PLAN
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.____
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
NOTE BOOK
NO.____
ELM. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

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740 735 730 725 720 715 710 705 700 695 690 685 680 675

Inv. El. 684.80

Rim El. 715.34
Inv. El. 688.20
Inv. El. 688.30

Rim El. 711.60
Inv. El. 688.70
Inv. El. 688.80

PR WB PGL
PR EB PGL
EX WB PGL
EX EB PGL
50 YEAR HGL

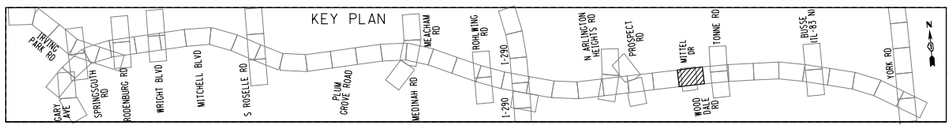
48" @ 0.08%
48" @ 0.08%

℄ MITTEL BLVD

684.57	705.96	685.40	707.42	686.59	708.88	686.95	710.34	687.67	711.80	688.49	713.26	688.85	714.72	689.72	716.10	690.58	717.32	691.81	718.38	694.21	719.27	695.39	720.01	694.92	720.59	698.40	721.00	699.97	721.25	701.44	721.35	702.83	721.28	704.57	721.05	706.03	720.66	708.77	720.11	708.39	719.40	709.11	718.61	714.89	717.82	713.78	717.03	715.06	716.24	715.90	715.45	716.62	714.66	716.53	713.87	716.00	713.07	716.61	712.28	717.67	711.49

1100+00 1101+00 1102+00 1103+00 1104+00 1105+00 1106+00 1107+00 1108+00 1109+00 1110+00 1111+00 1112+00 1113+00 1114+00 1115+00

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

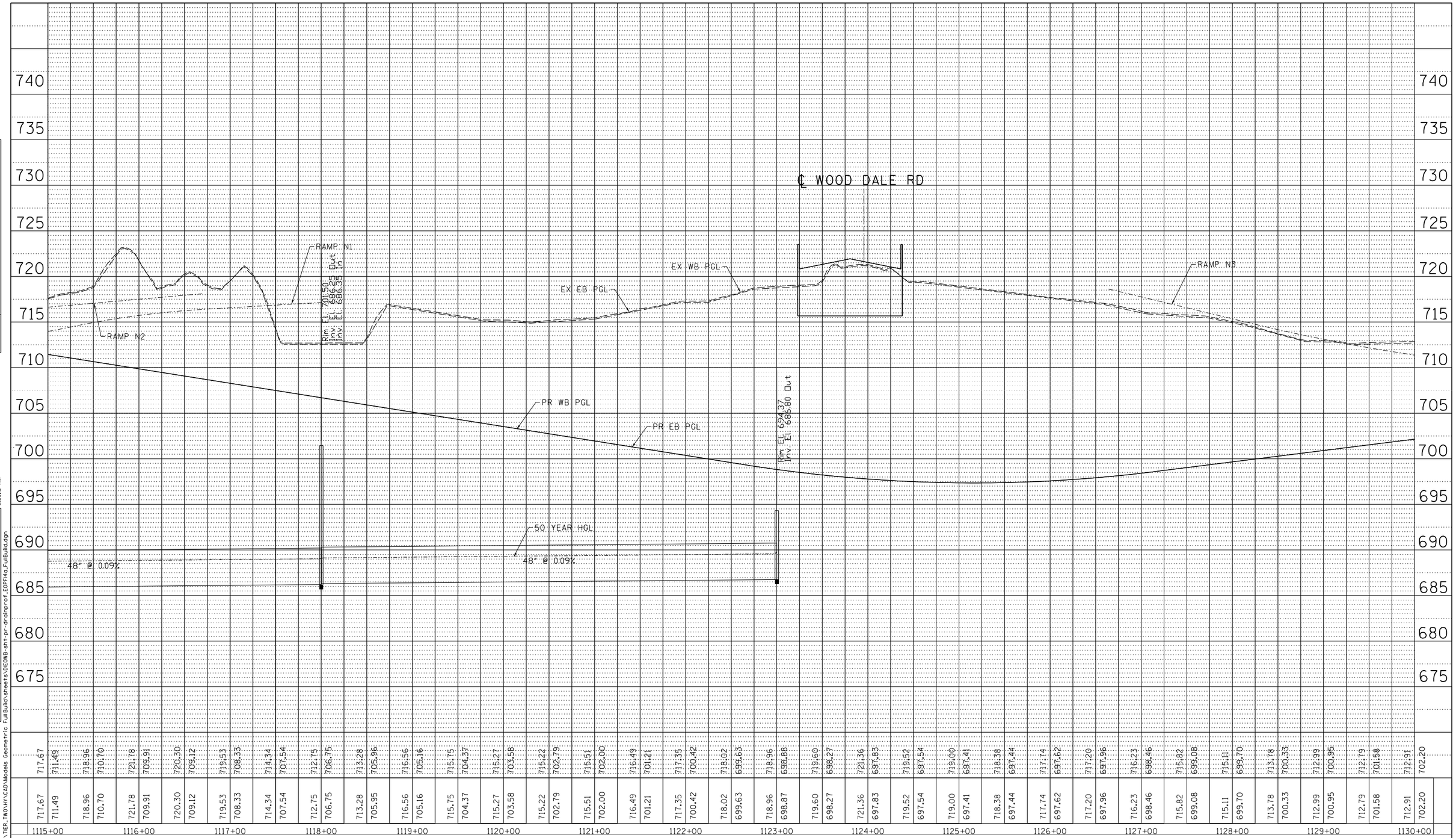
Illinois Department of Transportation

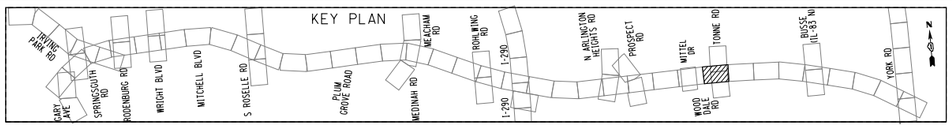
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	53
		CONTRACT NO.		
	FULL BUILD	ILLINOIS	FED. AID PROJECT	





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PROFILE — SURVEYED — PLOTTED — DRAWN — CHECKED — BM& NOTED — STRUCTURE NO&THS CHKD — NOTE BOOK — NO.____ — BY — DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DEOWB-sht-pr-drainprof_EOPFI4a_FullBuild.dgn 9:59:13 AM

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

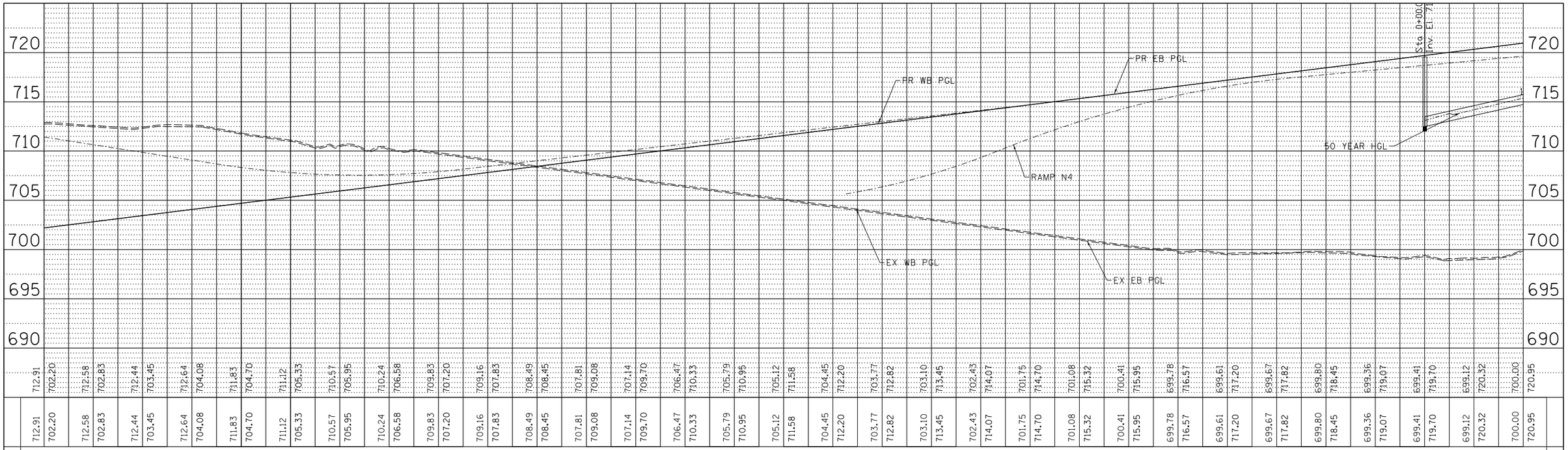
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
SALT CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

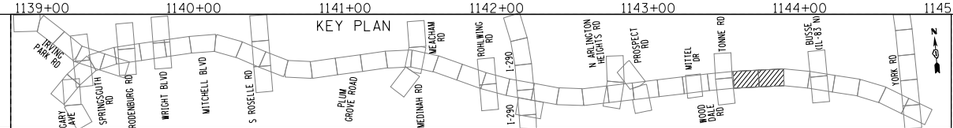
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	54
		CONTRACT NO.		
	FULL BUILD	ILLINOIS	FED. AID PROJECT	

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

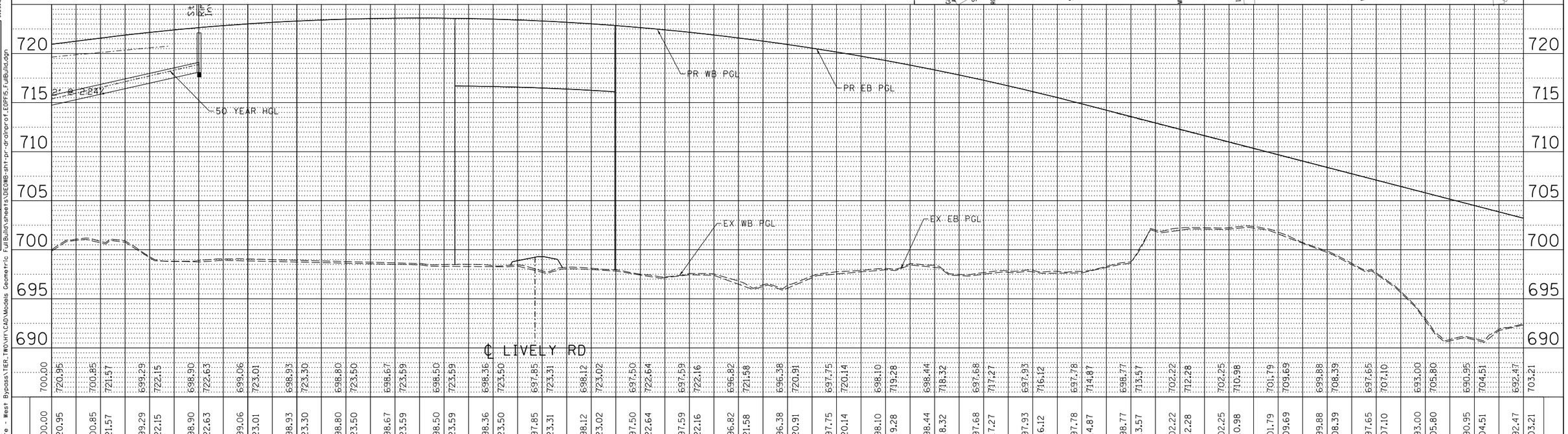


712.91	702.20	712.58	702.83	712.44	703.45	712.64	704.08	711.83	704.70	711.12	705.33	710.57	705.95	710.24	706.58	709.83	707.20	709.16	707.83	708.49	708.45	707.81	709.08	707.14	709.70	706.47	710.33	705.79	710.95	705.12	711.58	704.45	712.20	703.77	712.82	703.10	713.45	702.43	714.07	701.75	714.70	701.08	715.32	700.41	715.95	699.78	716.57	699.61	717.20	699.67	717.82	699.80	718.45	699.36	719.07	699.41	719.70	699.12	720.32	700.00	720.95
1130+00		1131+00		1132+00		1133+00		1134+00		1135+00		1136+00		1137+00		1138+00		1139+00		1140+00		1141+00		1142+00		1143+00		1144+00		1145+00																															

KEY PLAN



PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
ELM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



700.00	720.95	700.85	721.57	699.29	722.15	698.90	722.63	699.06	723.01	698.93	723.30	698.80	723.50	698.67	723.59	698.50	723.59	698.36	723.50	697.85	723.31	698.12	723.02	697.50	722.64	697.59	722.16	696.82	721.58	696.38	720.91	697.75	720.14	698.10	719.28	698.44	718.32	697.68	717.27	697.93	716.12	697.78	714.87	698.77	713.57	702.22	712.28	702.25	710.98	701.79	709.69	699.88	708.39	697.65	707.10	693.00	705.80	690.95	704.51	692.47	703.21
1145+00		1146+00		1147+00		1148+00		1149+00		1150+00		1151+00		1152+00		1153+00		1154+00		1155+00		1156+00		1157+00		1158+00		1159+00		1160+00																															

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_EOPFI5_FullBuild.dgn 9:59:18 AM

FILE NAME = DIEOWB-sht-pr-drainprof_EOPFI5_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
SALT CREEK WATERSHED / WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

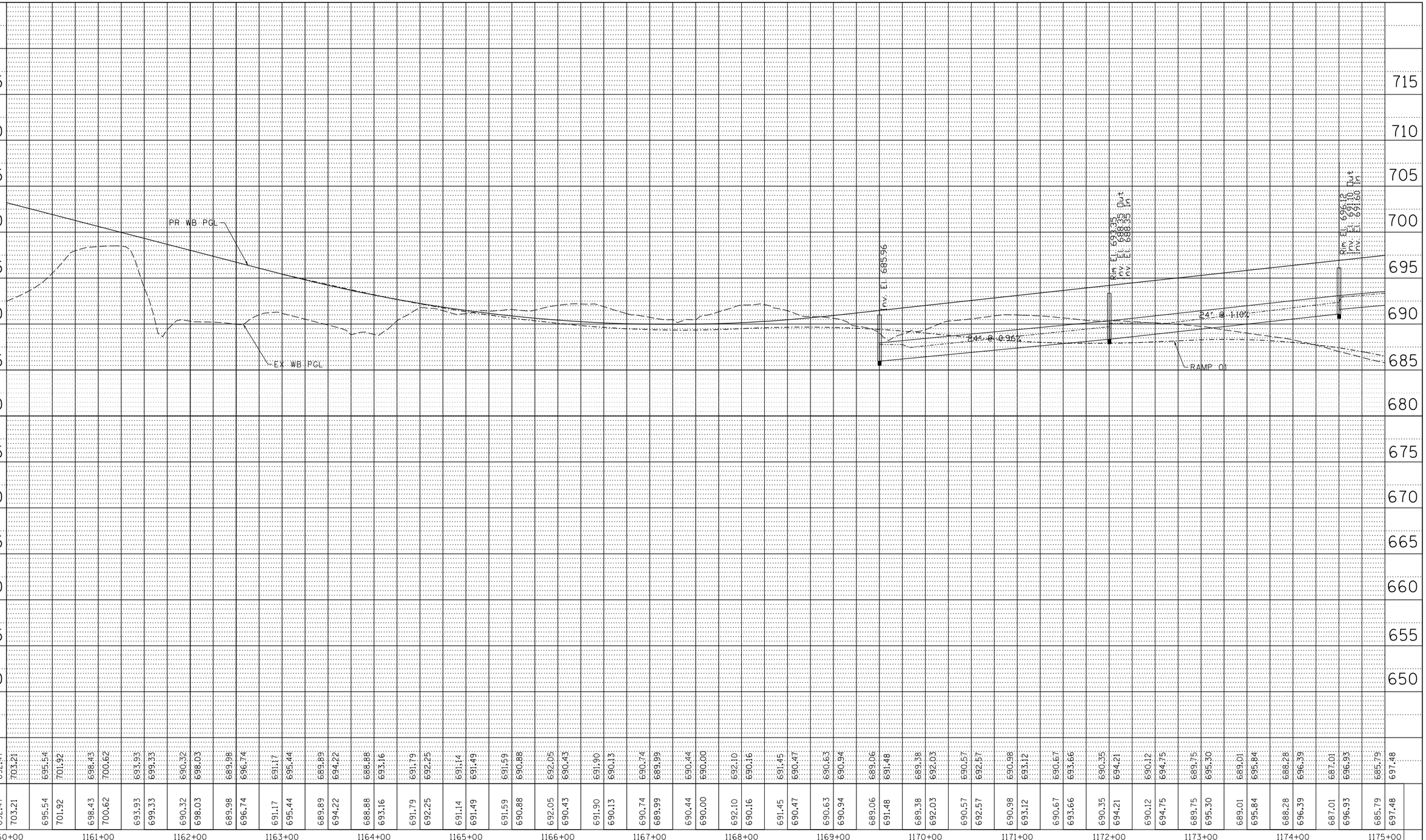
SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	55
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

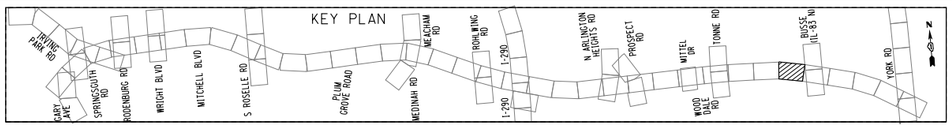
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_EOPFI6A_FullBuild.dgn 9:59:24 AM



1160+00	1161+00	1162+00	1163+00	1164+00	1165+00	1166+00	1167+00	1168+00	1169+00	1170+00	1171+00	1172+00	1173+00	1174+00	1175+00
692.47	695.54	698.43	689.89	688.88	691.79	691.14	691.59	692.05	691.90	690.74	690.44	692.10	691.45	690.63	689.06	689.38	690.57	690.98	690.67	690.35	690.12	689.75	689.01	688.28	687.01	685.79	
703.21	701.92	700.62	694.22	693.16	692.25	691.49	690.88	690.43	690.13	689.99	690.00	690.16	690.47	690.94	691.48	692.03	692.57	693.12	693.66	694.21	694.75	695.30	695.84	696.39	696.93	697.48	



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DIEOWB-sht-pr-drainprof_EOPFI6A_FullBuild.dgn		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	56
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYV\CAD\Models Geometric Full Build\sheets\DEOWB-sht-pr-drainprof_EOPFI6B_FullBuild.dgn 11/30/2012 10:32:21 AM

715
710
705
700
695
690
685
680
675
670
665
660
655
650

50 YEAR HGL
18" @ 0.88%
15" @ 1.45%
Rim El. 698.92
Inv. El. 693.80 Out
Inv. El. 694.20 In
Rim El. 700.05
Inv. El. 695.97 Out
PR WB PGL
PR EB PGL
Rim El. 685.54
Inv. El. 664.06 Out
Inv. El. 664.08 In
Rim El. 683.06
Inv. El. 663.45 Out
Inv. El. 663.96 In
Inv. El. 670.33
Rim El. 677.50
Inv. El. 668.05 Out
Inv. El. 668.65 In
EX WB PGL
EX EB PGL
Rim El. 675.49
Inv. El. 664.18 Out
Inv. El. 664.28 In
Rim El. 672.50
Inv. El. 666.93 Out
Inv. El. 666.05 In
50 YEAR HGL
15" RCP @ 5.14%
30" @ 1.11%
℄ IL 83
42" @ 0.12%
48" @ 0.1
48" RCP @ 0.11%

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PLAN
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.____
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.____
BY
DATE

715
710
705
700
695
690
685
680
675
670
665
660
655
650

RAMP 03
PR WB PGL
PR EB PGL
EX WB PGL
EX EB PGL
50 YEAR HGL
℄ RR
℄ EBFR_NO
℄ SUPREME DR
48" @ 0.52%
48" @ 0.22%
48" @ 0.14%
48" @ 0.96%
48" @ 0.08%
48" RCP @ 0.82%
0%

Rim El 676.00
Inv. El 663.45 In
Inv. El 663.45 Out

Rim El 676.50
Inv. El 662.90 Out
Inv. El 663.00 In

Rim El 669.29
Inv. El 662.25 Out
Inv. El 662.35 In

Rim El 670.00
Inv. El 661.60 Out
Inv. El 661.60 In

Rim El 670.00
Inv. El 661.25 Out
Inv. El 661.25 In

Rim El 665.93
Inv. El 659.05 Out
Inv. El 659.55 In

674.13	704.29	673.44	704.04	673.90	703.79	673.21	703.54	672.20	703.29	671.57	703.04	671.58	702.79	670.37	702.54	669.21	702.29	669.55	702.04	669.95	701.79	671.28	701.54	671.89	701.23	672.03	700.81	670.61	700.28	669.35	699.64	666.75	698.88	667.32	698.01	667.44	697.03	667.40	695.94	666.49	694.73	666.93	693.41	667.08	692.04	667.38	690.66	668.00	689.29	668.30	687.91	668.62	686.54	669.12	685.16	669.79	683.79	670.22	682.41	671.01	681.04
674.13	704.29	673.44	704.04	673.90	703.79	673.21	703.54	672.20	703.29	671.57	703.04	671.58	702.79	670.37	702.54	669.21	702.29	669.55	702.04	669.95	701.79	671.28	701.54	671.89	701.23	672.03	700.81	670.61	700.28	669.35	699.64	666.75	698.88	667.32	698.01	667.44	697.03	667.40	695.94	666.49	694.73	666.93	693.41	667.08	692.04	667.38	690.66	668.00	689.29	668.30	687.91	668.62	686.54	669.12	685.16	669.79	683.79	670.22	682.41	671.01	681.04

1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197+00 1198+00 1199+00 1200+00 1201+00 1202+00 1203+00 1204+00 1205+00

KEY PLAN
TRUNK PARK RD
CARY LAKE
SPRINGSOUTH RD
RODENBURG RD
WRIGHT BLVD
MITCHELL BLVD
S ROSELLE RD
ELM GROVE ROAD
MEACHAM RD
MEDINAH RD
ROAMLING RD
I-290
I-290
N ARLINGTON HEIGHTS RD
PROSPECT RD
WITTEL DR
WOOD DALE RD
TONNE RD
BUSSE HWY IL-83 NB
YORK RD

FILE NAME =	USER NAME = mantas	DESIGNED MA/EB	REVISED -
DIEOWB-sht-pr-drainprof_EOPF17A_FullBuild.dgn	DRAWN MYG	REVISED -	
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	58
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

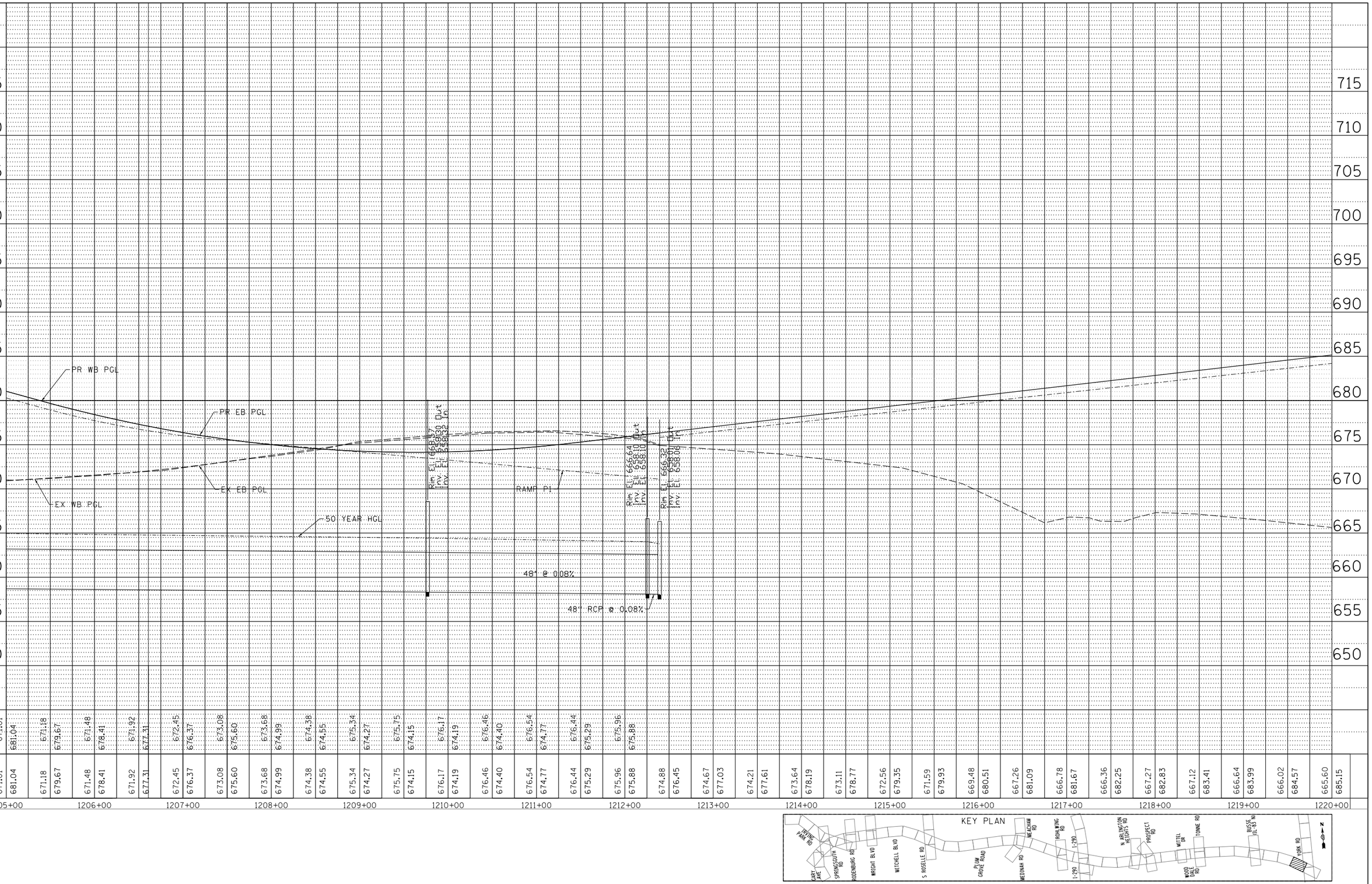
Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_EOPF17A_FullBuild.dgn 11/30/2012 10:26:26 AM

PLAN

NOTE BOOK	SURVEYED	BY
NO. ____	PLOTTED	DATE
	ALIGNMENT CHECKED	
	R/T. OF WAY CHECKED	
	CADD FILE NAME	

PROFILE

NOTE BOOK	SURVEYED	BY
NO. ____	PLOTTED	DATE
	GRADES CHECKED	
	BM. NOTED	
	STRUCTURE NOTATNS CHKD	



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PLAN
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.____
BY
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PROFILE
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PLOTTED
CROSS SECTIONS CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.____
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_EOPF18_FullBuild.dgn 9:59:45 AM

720 715 710 705 700 695 690 685 680 675 670 665 660 655 650

RAMP P2

PR EB PGL

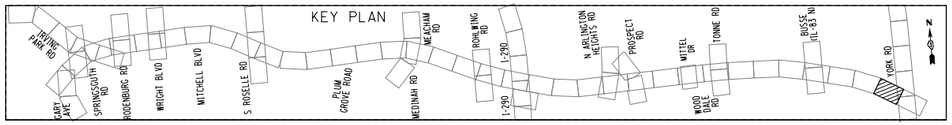
EX EB PGL

3 - 10'x5' RCBC
TOP OF BEDDING INV.=655.90
CULVERT INV=654.90

665.60	664.77	663.99	662.56	662.26	661.96	661.65	661.35	661.05	660.75	660.44	660.14	659.84	659.54	659.23	658.93	658.63	658.33	664.02	663.93	663.89	664.57	664.87	664.96	664.83	664.53	664.21	664.40	664.98	665.08	664.97
685.15	685.73	686.31	686.89	687.47	688.05	688.63	689.21	689.79	690.37	690.95	691.53	692.11	692.58	692.82	692.84	692.63	692.20	691.54	690.77	690.00	689.23	688.46	687.81	687.40	687.23	687.30	687.61	688.15	688.94	689.96

1220+00 1221+00 1222+00 1223+00 1224+00 1225+00 1226+00 1227+00 1228+00 1229+00 1230+00 1231+00 1232+00 1233+00 1234+00 1235+00

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE
WEST BYPASS
communities. opportunities. solutions.

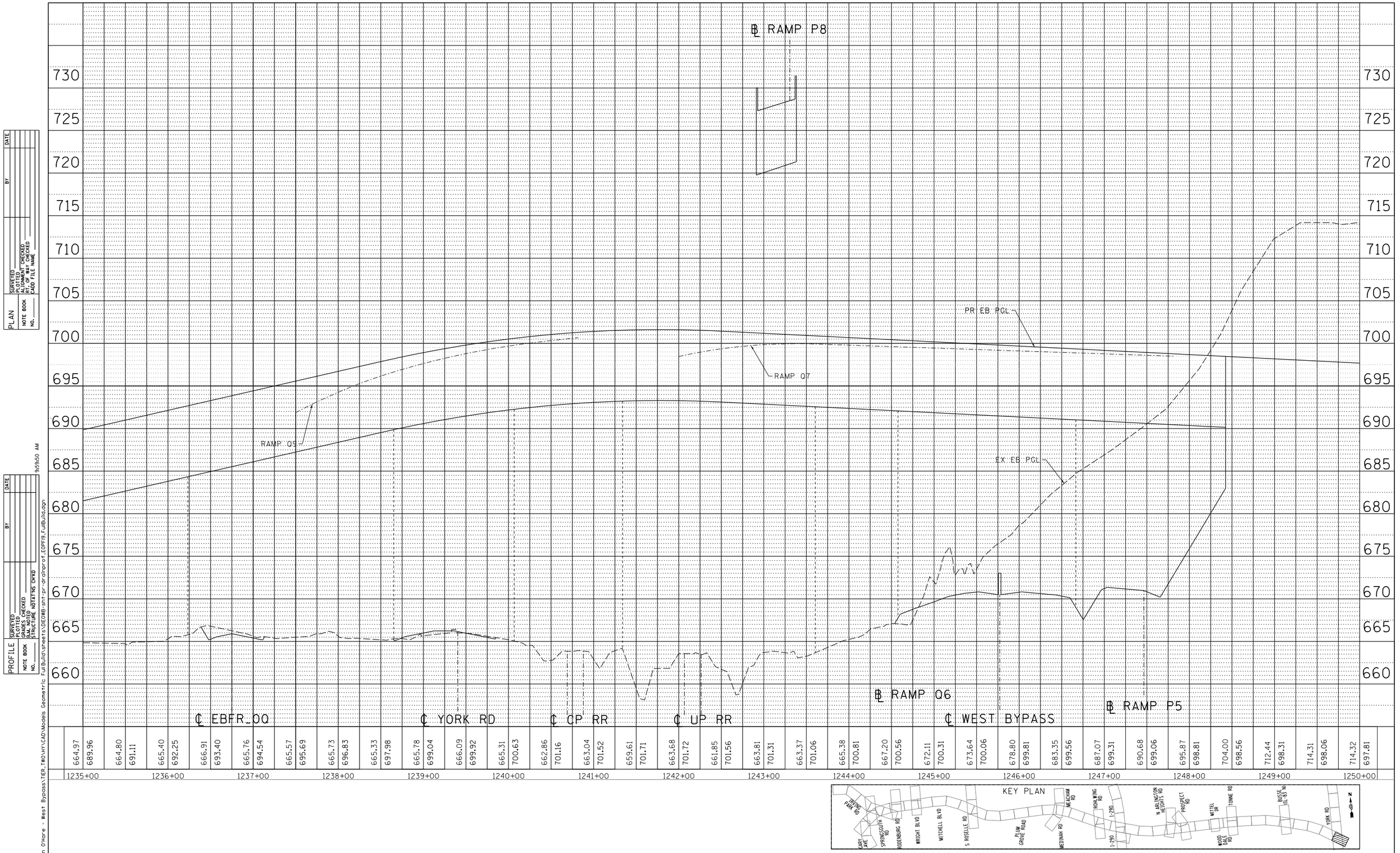
Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	60
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSSES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_EOPFI9_FullBuild.dgn 9:59:50 AM

KEY PLAN
TRUNK PARK RD
SPRINGINSOUTH RD
RIDGEMBURG RD
WRIGHT BLVD
MITCHELL BLVD
S. RIDGELLE RD
PLUM GROVE ROAD
MEACHAM RD
MEDINAH RD
ROHLWING RD
I-290
I-290
N. ARLINGTON HEIGHTS RD
PROSPECT RD
WILLEL DR
TONNE RD
BUSSE (IL 83 N)
WOOD DALE RD
YORK RD
CARY AVE

FILE NAME = DIEOWB-sht-pr-drainprof_EOPFI9_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
WILLOW CREEK WATERSHED
ELGIN O'HARE EXPRESSWAY

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	61
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		T T T T T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

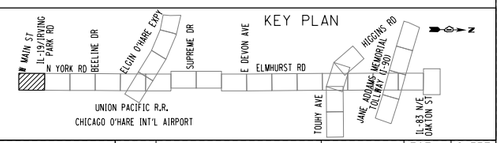
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
BENSENVILLE DITCH WATERSHED
N YORK ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	62
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPRI_FullBuild.dgn
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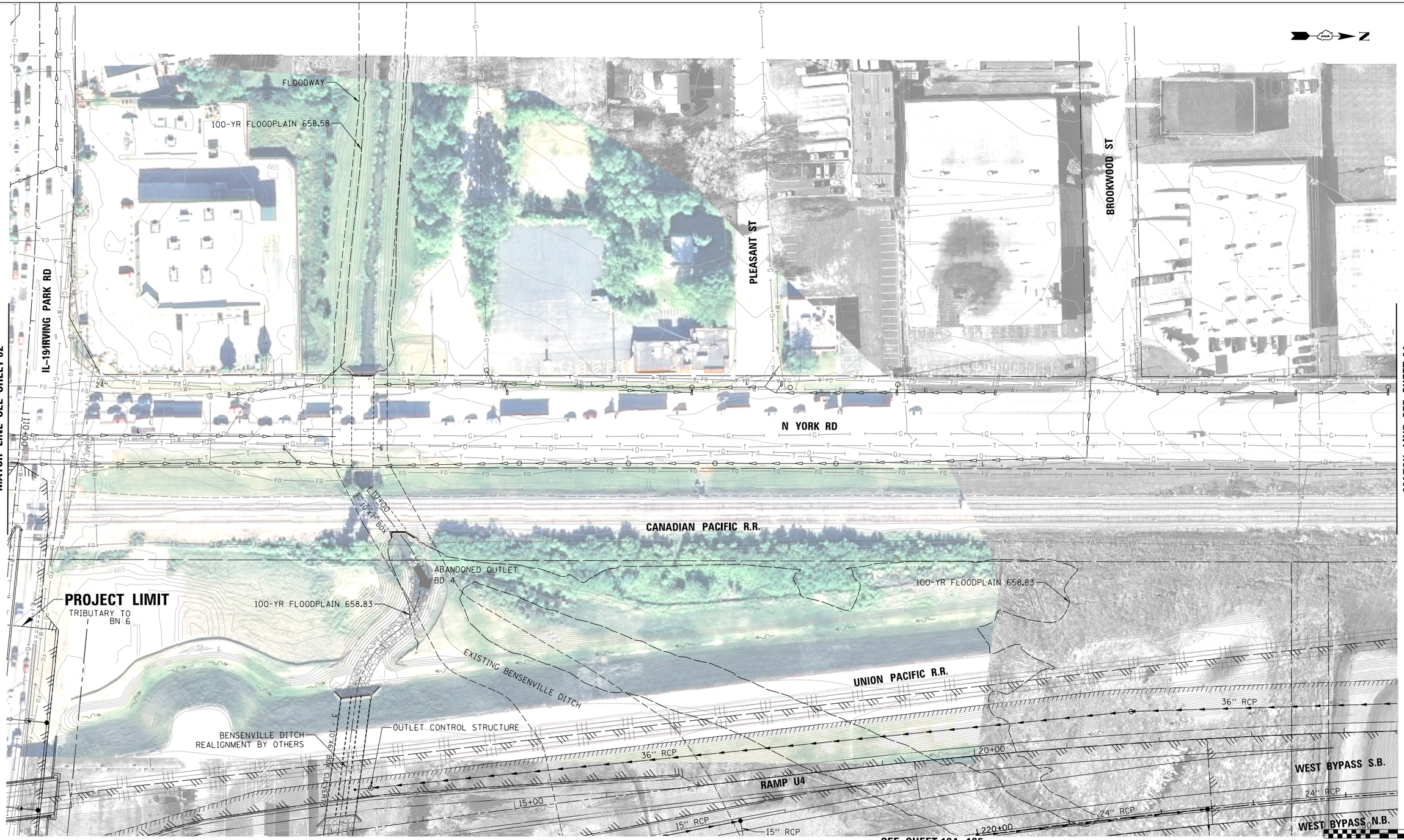


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

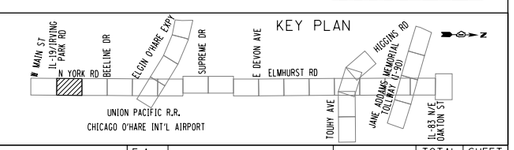
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
BENSENVILLE DITCH WATERSHED
N YORK ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	63
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TER_TWO\HYD\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR2_FullBuild.dgn
10:0ct7 AM

MATCH LINE SEE SHEET 63

MATCH LINE SEE SHEET 65

N YORK RD

CANADIAN PACIFIC R.R.

UNION PACIFIC R.R.

WEST BYPASS S.B.

WEST BYPASS N.B.

42" CAAP

36" RCP

18" RCP

15" RCP

24"

27"

36"

42"x29" ARCH CMP

3-88" - 24" ERS

2-76" - 24" ERS

EX OUTLET
BN 2

OUTLET CONTROL STRUCTURE
INV=658.20
6" RESTRICTOR

DETENTION SITE: D8-W1
AVAILABLE DETENTION: 0.89 AC-FT
~~NWL=662.0~~ ~~NWL=658.3~~
BERM=663.0 GRAVEL LAYER=660.0
DRAWDOWN WITHIN 48 HRS

25+00

225+00

230+00

235+00

659

662

665

669

670

0 50' 100'

SEE SHEET 135, 136

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+75+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

MAIN ST IL-19/PRAIRIE PARK RD · N YORK RD · BEELINE DR · ELGIN O'HARE EXPY · SUPREME DR · E DEVON AVE · ELMHURST RD · HIGGINS RD · JANE ADDAMS MEMORIAL TOLLWAY (I-90) · TOUHY AVE · IL-83 N/E OAKTON ST · UNION PACIFIC R.R. · CHICAGO O'HARE INT'L AIRPORT

FILE NAME = DIEOWB-sht-pr-drain-YPR3_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
BENSENVILLE DITCH WATERSHED
N YORK ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	64
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR3_FullBuild.dgn
10:00:30 AM

MATCH LINE SEE SHEET 64

MATCH LINE SEE SHEET 66

BEELINE DR

FOSTER AVE

N YORK RD

PROJECT LIMIT

CANADIAN PACIFIC R.R.

UNION PACIFIC R.R.

BENSENVILLE DITCH WATERSHED

WILLOW CREEK WATERSHED

RAMP U2

WEST BYPASS S.B.

OUTLET CONTROL STRUCTURE
INV=659.00
6" RESTRICTOR

INV=660.50

INV=661.20

BMP DETENTION SITE: D8-W2
AVAILABLE DETENTION= 2.96 AC-FT
HWL=662.8 NWL=659.0
BERM=663.8 GRAVEL LAYER=661.5
DRAWDOWN WITHIN 48 HRS

15" RCP 240+00

18" RCP 245+00

15" RCP 250+00

24" RCP 240+00

24" RCP 600+00

0 50' 100'

SEE SHEET 136, 137

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

N MAIN ST / IL-19/IRVING PARK RD
N YORK RD
BEELINE DR
ELGIN O'HARE EXPY
SUPREME DR
E DEVON AVE
ELMHURST RD
HIGGINS RD
JANE ADDAMS MEMORIAL TOLLWAY (I-90)
IL-83 N/E
OAKTON ST
TOUHY AVE
UNION PACIFIC R.R.
CHICAGO O'HARE INT'L AIRPORT

FILE NAME = DIEOWB-sht-pr-drain-YPR4_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
BENSENVILLE DITCH WATERSHED / WILLOW CREEK WATERSHED
N YORK ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	65
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR4_FullBuild.dgn
10:04:44 AM

MATCH LINE SEE SHEET 39

MATCH LINE SEE SHEET 65

MATCH LINE SEE SHEET 67

BMP DETENTION SITE: D7-S3
AVAILABLE DETENTION: 5.48 AC-FT
HWL=663.0 NWL=659.0
BERM=664.0 GRAVEL LAYER=661.0
DRAWDOWN WITHIN 48 HRS

OUTLET CONTROL STRUCTURE
INV=658.00
6" RESTRICTOR

24" RCP (MIN.)

659

664

661

663

18" RCP

24" RCP

24" RCP (MIN.)

24" RCP (MIN.)

24" RCP (MIN.)

CANADIAN PACIFIC R.R.

SILVER CT.

RAMP P2

RAMP P8

RAMP O9

EB FRONTAGE RD - OO

FLOODWAY

N YORK RD

250+00

255+00

260+00

900+00

910+00

225+00

1235+00

230+00

1240+00

235+00

1245+00

TRIBUTARY TO WL 25/26/27

CANADIAN PACIFIC R.R.

ELGIN - O'HARE EXPRESSWAY - A

UNION PACIFIC R.R.

RAMP P6

RAMP P7

615+00

705+00

810+00

815+00

745+00

610+00

605+00

WEST BYPASS S.B.

255+00

0 50' 100'

SEE SHEET 137, 138

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

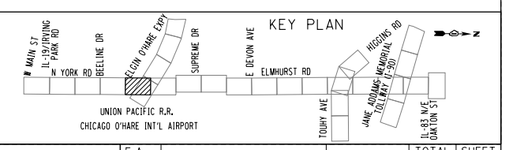
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
N YORK ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	66
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR5_FullBuild.dgn
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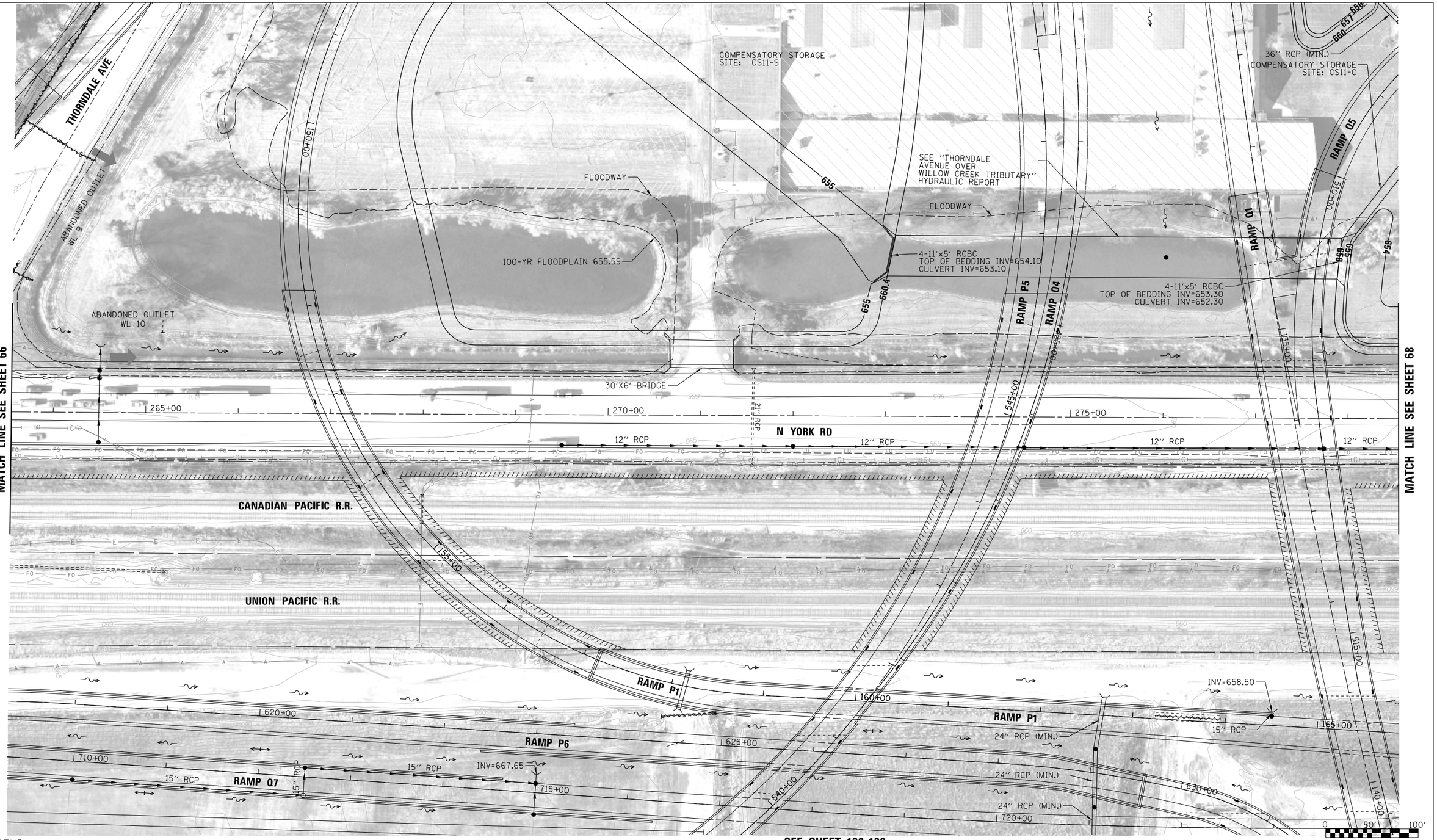


MATCH LINE SEE SHEET 66

MATCH LINE SEE SHEET 68

SEE SHEET 138, 139

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

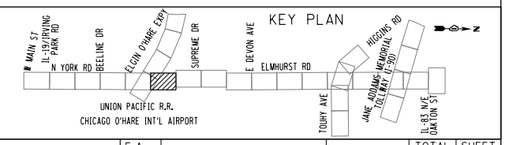
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
N YORK ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	67
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYD\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR6_FullBuild.dgn
10:02:12 AM

OUTLET CONTROL STRUCTURE
INV=655.00
32" RESTRICTOR
36" RCP (MIN.)
505+00
654
COMPENSATORY STORAGE
SITE: CS11-C
OFFSITE FLOW CONVEYED
TO OUTLET WL 25/26/27
48" RCP
48" RCP
24" RCP
48" RCP
24" RCP
SUPREME DR
659
657
653
COMPENSATORY STORAGE
SITE: CS11-N
FLOODWAY
100-YR FLOODPLAIN 655.59
TOP OF BEDDING INV=652.80
CULVERT INV=651.80
INV=654.00
4-11'x5' RCBC
WILLOW CREEK SOUTH TRIBUTARY
TOP OF BEDDING INV=652.30
CULVERT INV=651.30
655
658
24" RCP
100-YR FLOODPLAIN 655.59
TWIN 9'X7'
BOX CULVERT
MATCH LINE SEE SHEET 67
MATCH LINE SEE SHEET 69
15" RCP
500+00
280+00
285+00
290+00
N YORK RD
TRAPEZOIDAL BRIDGE
37.66' TOP WIDTH
6" BOTTOM WIDTH
PROJECT LIMIT
TRAPEZOIDAL BRIDGE
47.5' TOP WIDTH
6' BOTTOM WIDTH
12" RCP
15" RCP
CANADIAN PACIFIC R.R.
100-YR FLOODPLAIN 655.59
505+00
ABANDONED OUTLET
WL 12
505+00
ABANDONED OUTLET
WL 13
12' X 8' RCBC
12' X 8' RCBC
UNION PACIFIC R.R.
INV=648.90
100-YR FLOODPLAIN 655.59
INV=648.00
175+00
180+00
50'
100'

SEE SHEETS 139, 140

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

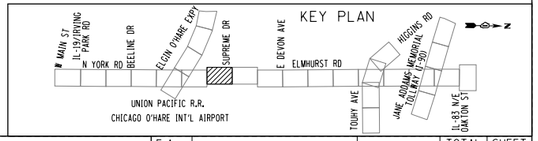
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
N YORK ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	68
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR7_FullBuild.dgn
10:02:24 AM

MATCH LINE SEE SHEET 68

MATCH LINE SEE SHEET 70

659
657
653

COMPENSATORY STORAGE
SITE: CS11-N

WILLOW CREEK NORTH TRIBUTARY

100-YR FLOODPLAIN 655.59

PAN AM BLVD

NOTE:
DRAINAGE INVESTIGATION PERFORMED

DRAINAGE
COMPLAINT
HERE

N

295+00 | 300+00 | 305+00

N YORK RD

TRAPEZOIDAL BRIDGE
38.5' TOP WIDTH
10' BOTTOM WIDTH

100+00

ABANDONED OUTLET
WL 14

100-YR FLOODPLAIN 655.59

CANADIAN PACIFIC R.R.

12' X 8' RCBC

UNION PACIFIC R.R.

100-YR FLOODPLAIN 655.59

INV=648.04

DETENTION SITE: D7-C3
AVAILABLE DETENTION: 4.05 AC-FT
HWL=661.0 NWL=656.9
BERM=662.0 GRAVEL SURFACE=659.0
DRAWDOWN WITHIN 48 HRS

0 50' 100'

SEE SHEET 140, 141

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

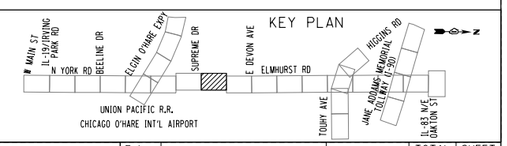
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
N YORK ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	69
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR8_FullBuild.dgn
10:02:39 AM

MATCH LINE SEE SHEET 69

MATCH LINE SEE SHEET 71

N YORK RD

PROJECT LIMIT

320+00

TRIBUTARY TO OUTLET
WL 25/26/27

TRIBUTARY TO OUTLET
WL 19

E DEVON AVE

ELMHURST RD

24" RCP (MIN.)

RAMP V1

UNION PACIFIC R.R.

330+00

DETENTION SITE: D7-C3
AVAILABLE DETENTION: 4.05 AC-FT
HWL=661.0 NWL=656.9
BERM=662.0 GRAVEL LAYER=659.0
DRAWDOWN WITHIN 48 HRS

658 659 661

WEST BYPASS S.B.

WEST BYPASS N.B.

DuPAGE
COOK

0 50' 100'

SEE SHEET 141, 142

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

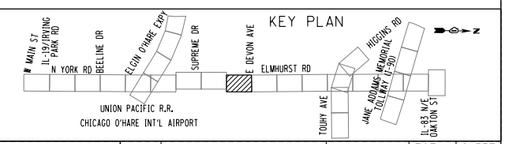
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
YORK RD / ELMHURST RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	70
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR9_FullBuild.dgn
10:02:54 AM

CENTRAL ILLINOIS R.R.

ARTHUR AVE

BNSF R.R.

DETENTION SITE: D7-C2
AVAILABLE DETENTION: 7.26 AC-FT
HWL=668.0 NWL=661.0
BERM=671.0 GRAVEL LAYER=663.0
DRAWDOWN WITHIN 48 HRS

ELMHURST RD

MATCH LINE SEE SHEET 70

MATCH LINE SEE SHEET 72

325+00 330+00 335+00 340+00 345+00

24" RCP 36" RCP 36" RCP 24" RCP (MIN.)

15" RCP 15" RCP 15" RCP 15" RCP 15" RCP 30" RCP

18" RCP 24" RCP 24" RCP 24" RCP 30" RCP

668 662 INV=661.57

EQUALIZER PIPE

WEST BYPASS S.B.

WEST BYPASS N.B.

TRIBUTARY TO OUTLET WL 21

TRIBUTARY TO OUTLET WL 28

RAMP V1

UNION PACIFIC R.R.

INV=664.00 INV=661.50 668 662

0 50' 100'

SEE SHEET 142, 143

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		TTTTTTTTTT
STORM SEWER REMOVAL		

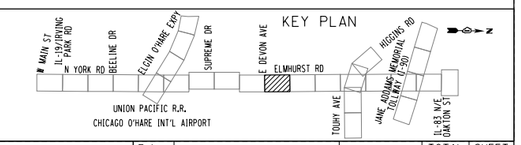
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELMHURST ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	71
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR10_FullBuild.dgn
10:03:08 AM

CENTRAL ILLINOIS R.R.

PROJECT LIMIT

PRATT BLVD

30" RCP

30" RCP

TRIBUTARY TO OUTLET
WL 19

CULVERT# ELM_1
D.A. = 280 AC

PROJECT LIMIT

340+00

345+00

350+00

ELMHURST RD

42" RCP

42" RCP

42" RCP

42" RCP

36" RCP

48" RCP

90"x58" RCP

30" RCP

60"x86" RCP

30" RCP

EX. OUTLET
WL 19A

EX. OUTLET
WL 19B

18" RCCP

OUTLET 19 TRIBUTARY AREA: 280 AC

7'x5' - 1 CMPA

COYLE LN

7'x5' - 1 CMPA

7'x5' - 1 CMPA

24" RCP

TRIBUTARY TO OUTLET
WL 28

INV=662.50

662

668

36" RCP

36" RCP

WEST BYPASS S.B.

WEST BYPASS N.B.

12" RCP

350+00

250+00

RAMP V1

DETENTION SITE: D7-C2
AVAILABLE DETENTION: 7.26 AC-FT
HWL=668.0 NWL=661.0
BERM=671.0 GRAVEL LAYER=663.0
DRAWDOWN WITHIN 48 HRS

0 50' 100'

MATCH LINE SEE SHEET 71

MATCH LINE SEE SHEET 73

SEE SHEET 143

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+75+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

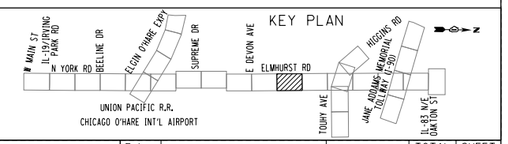
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELMHURST ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	72
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPRII_FullBuild.dgn
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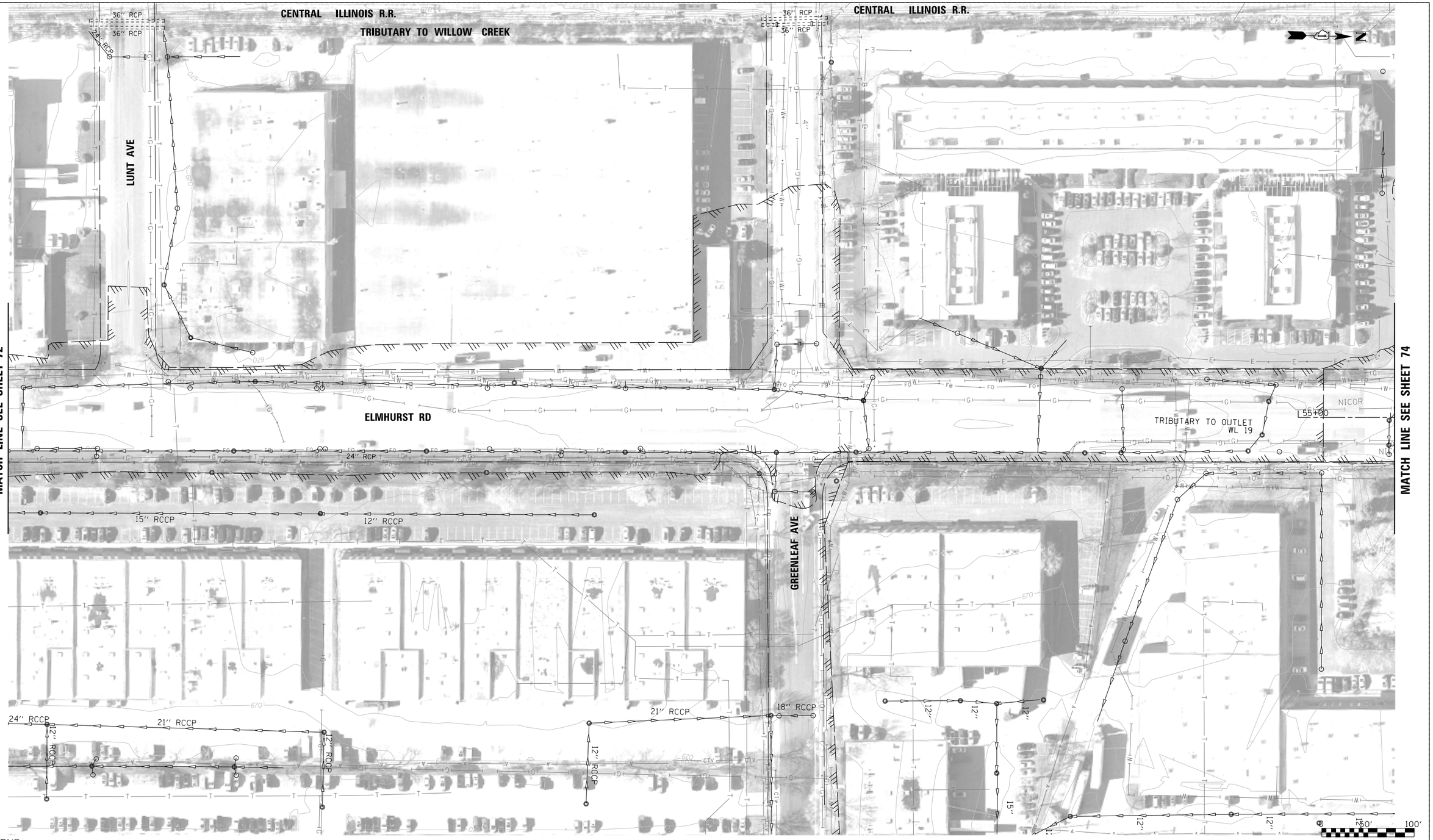


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+75+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

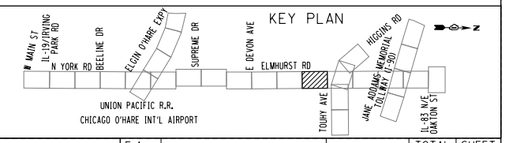
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

*MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
ELMHURST ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	73
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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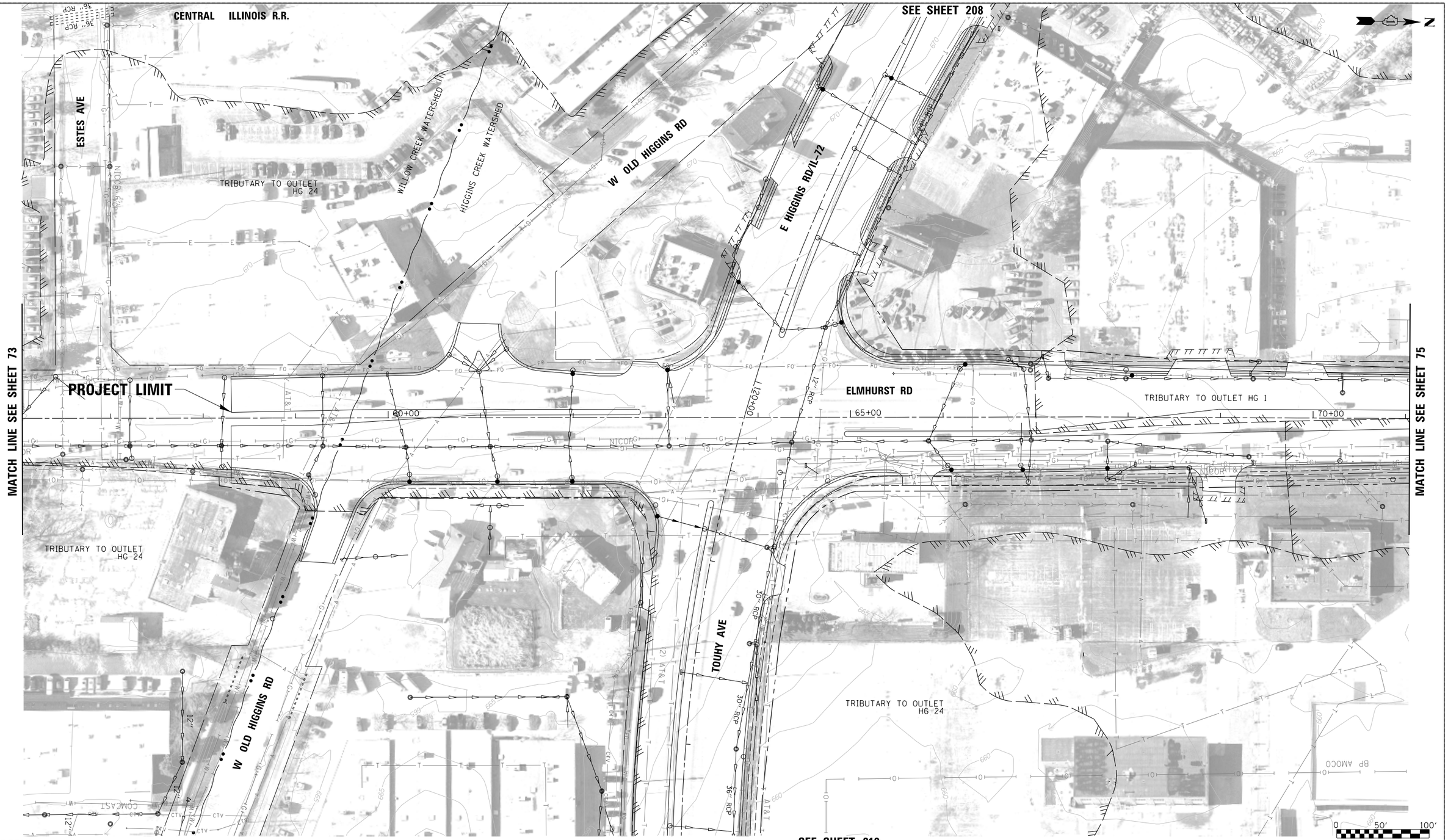


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

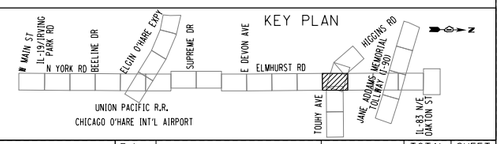
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW/HIGGINS CREEK WATERSHED
ELMHURST ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	74
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPRI3_FullBuild.dgn
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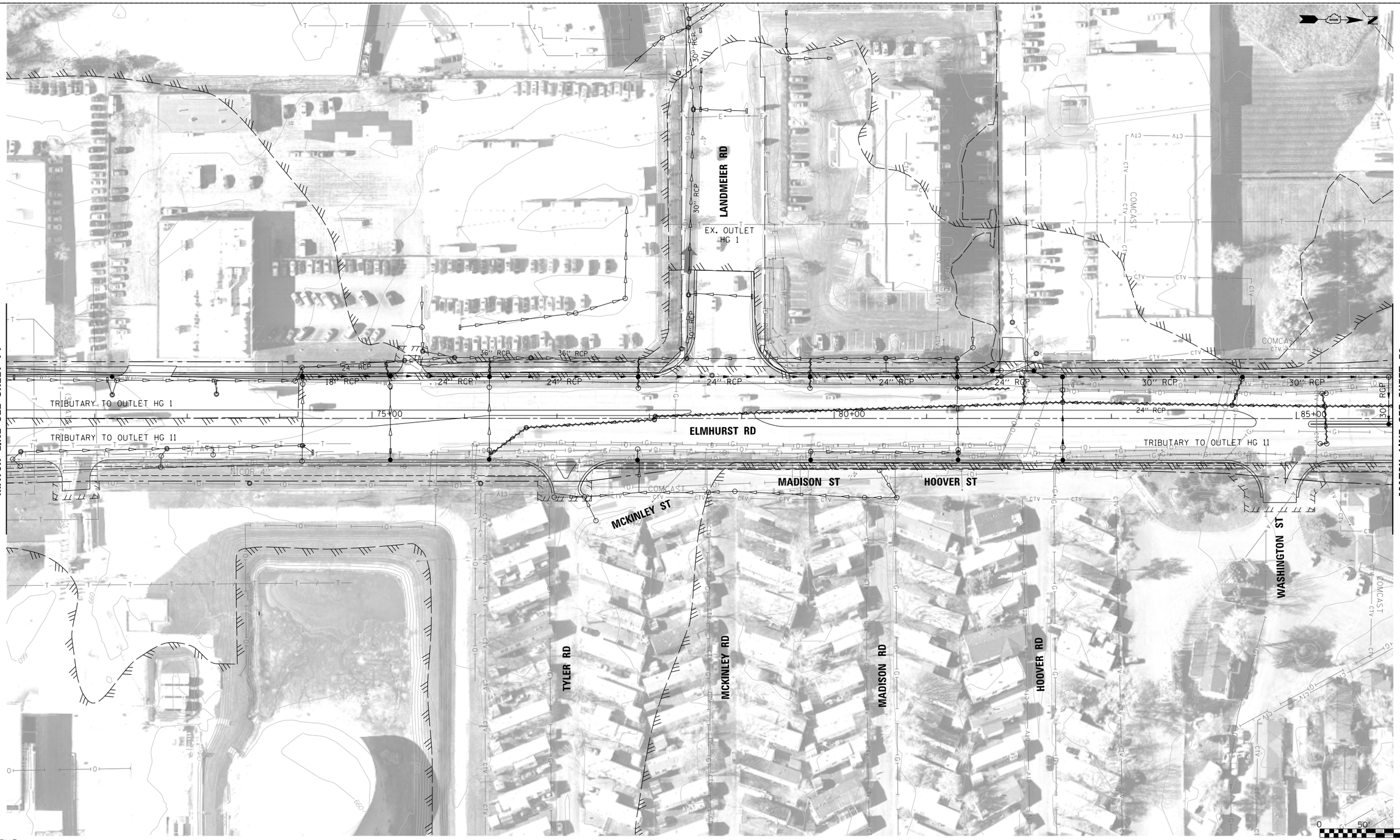


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

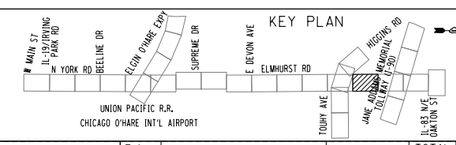
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
ELMHURST ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	75
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYCAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drain-YPRI4_FullBuild.dgn
10:04:04 AM

SEE SHEET 92

MATCH LINE SEE SHEET 75

MATCH LINE SEE SHEET 77

FLOODWAY

100-YR FLOODPLAIN 658.90

EX. OUTLET HG 2

TRIBUTARY TO OUTLET HG 2

72"Ø MAIN

24" RCP

RAMP Y2

PAVED DITCH

CONC. DRAIN

22" PIPE CULVERT

100-YR FLOODPLAIN 658.08

TRIBUTARY TO OUTLET HG 9

15" RCP

250+00

90+00

95+00

100+00

30" RCP

36" RCP

42" RCP

ELMHURST RD

42" RCP

TRIBUTARY TO OUTLET HG 11

ADAMS CIR

ADAMS ST

655

650

656

INV=649.00

RAMP Y3

24" RCP

I-90 E.B.

I-90 W.B.

INV=655.05

18" RCP

15" RCP

24" RCP

0 25 50' 100'

SEE SHEET 92

DETENTION SITE: D5-W
AVAILABLE DETENTION: 15.99 AC-FT
HWL=655.0 NWL=648.5
BERM=656.0 GRAVEL LAYER=651.5
DOES NOT DRAWDOWN WITHIN 48 HRS

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

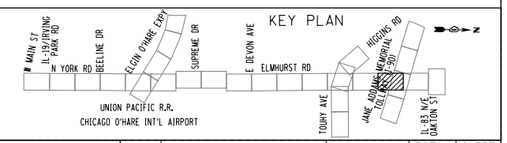
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
ELMHURST ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	76
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR15_FullBuild.dgn
10:04:17 AM

MATCH LINE SEE SHEET 76

MATCH LINE SEE SHEET 78

HIGGINS CREEK TRIB. A
COMP. STORAGE SITE: CS6-E

AVAILABLE STORAGE:
NORMAL - 10YR: 1.14 AC-FT
10-100YR: 1.01 AC-FT

100-YR FLOODPLAIN 657.75

FLOODWAY

PROP. OUTLET
HG 41
TRIB AREA: 1.9 AC

TRIBUTARY TO OUTLET HG 41

HIGGINS CREEK

NEW SINGLE SPAN BRIDGE OR 4 - RCBC

RAMP Y1

100-YR FLOODPLAIN 657.75

TRIBUTARY TO OUTLET HG 41

TRIBUTARY TO OUTLET HG 3

ELMHURST RD

WATER QUALITY DEVICE

145+00

105+00

110+00

18" RCP

24" RCP

30" RCP

36" RCP

48" RCP

INV=654.45

INV=650.90

ELMHURST RD OVER HIGGINS CREEK
D.A. = 5.4 SQ MI

EX. OUTLET
HG 3
TRIBUTARY AREA: 5.4 SQ MI

100-YR FLOODPLAIN 657.75

TRIBUTARY TO OUTLET HG 11

450+00

WILLIE ROAD

RAMP Y4

FLOODWAY

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

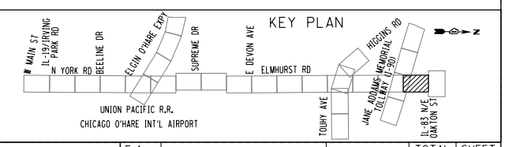
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -		CHRISTOPHER B. BURKE ENGINEERING, LTD.				COOK,DuPAGE	231	77
	PLOT SCALE = 100'	CHECKED CW	REVISED -						CONTRACT NO.		
	PLOT DATE = 11/30/2012	DATE -	REVISED -			SHEET NO. OF SHEETS STA. TO STA.	FULL BUILD	ILLINOIS	FED. AID PROJECT		

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DRAINAGE PROPOSAL
•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

ENTERPRISE DR
VILLAGE OF MOUNT PROSPECT
EX OUTLET HG 40
TRIBUTARY AREA: 6.1 AC
18"
8" RESTRICTOR PIPE
DETENTION STORAGE
TRIBUTARY TO OUTLET HG 40
W LINCOLN LN
CITY OF DES PLAINES 6"
15"
18"
(2) AT&T
12"
N
DETENTION PONDING STORAGE IN PARKING LOT
TRIBUTARY TO OUTLET HG 3
115+00
ELMHURST RD (IL-83)
COMCAST
CITY OF DES PLAINES 12"
36" RCP
10" RESTRICTOR PIPE
15"
18"
8"
NICOR 8"
205+00
210+00
215+00
OAKTON ST (IL-83)
NE OAKTON ST
110+00
48" RCP
24" RCP
0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT	TT TT TT T	
PERMANENT EASEMENT	TTTTTTTTT	
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

KEY PLAN
W MAIN ST
IL-19/IRVING PARK RD
N YORK RD
BEELINE DR
ELGIN O'HARE EXPY
SUPREME DR
E DEVON AVE
ELMHURST RD
HIGGINS RD
JANE ADDAMS MEMORIAL TOLLWAY (I-90)
IL-83 N/E OAKTON ST
TOUHY AVE
UNION PACIFIC R.R.
CHICAGO O'HARE INT'L AIRPORT

MATCH LINE SEE SHEET 77

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation
CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
ELMHURST ROAD
SHEET NO. OF SHEETS STA. TO STA.

FILE NAME =	USER NAME = mantas	DESIGNED MA	REVISED -
DIEOWB-sht-pr-drain-YPR17_FullBuild.dgn		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	78
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36i80 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-YPR17_FullBuild.dgn
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PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
SLM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_ELMI_FullBuild.dgn 10:04:51 AM

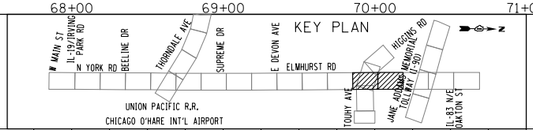
℄ TOUHY AVE
(IL 72)

EX CL PGL
PR CL PGL

680	675	670	665	660	655	650

670.05	669.71	669.44	669.39	669.15	668.76	669.05	668.47	668.76	668.69	668.46	668.55	668.16	667.97	667.86	667.63	667.56	667.50	667.26	667.26	666.97	666.93	666.67	666.72	666.37	666.47	666.07	666.07	665.77	665.81	665.48	665.74	665.18	665.58	664.88	665.44	664.58	665.23	664.28	665.06	663.99	664.78	663.69	664.24	663.39	663.78	663.09	663.07	662.79	662.77	662.50	662.28	662.20	661.77	661.90	661.45	661.60
59+00					60+00								61+00								62+00					63+00								64+00								65+00								66+00								67+00								68+00								69+00								70+00								71+00							

KEY PLAN



680	675	670	665	660	655	650	645	640

Inv. El. 654.03 Out
Rim El. 658.40
30" @ 0.34%

Inv. El. 653.34 In
Inv. El. 652.84 Out
Rim El. 658.17
24" @ 0.17%

Inv. El. 653.16 In
Inv. El. 652.50 Out
Rim El. 657.60
24" @ 0.17%

10 YEAR HGL

Inv. El. 652.88 In
Inv. El. 652.38 Out
Rim El. 657.86
24" @ 0.17%

EX CL PGL
PR CL PGL

Inv. El. 652.36 In
Inv. El. 652.05 Out
Rim El. 658.10
24" @ 0.17%

Inv. El. 652.28 In
Inv. El. 651.69 Out
Rim El. 657.49
24" @ 0.17%

Inv. El. 652.08 In
Inv. El. 651.58 Out
Rim El. 657.91
30" @ 0.17%

Inv. El. 651.83 In
Inv. El. 651.24 Out
Rim El. 657.70
30" @ 0.13%

Inv. El. 651.04
Rim El. 659.00

661.45	661.60	661.03	661.30	660.57	661.01	660.14	660.72	659.79	660.48	659.47	660.28	659.24	660.11	658.97	659.96	658.75	659.82	658.47	659.67	658.55	659.52	658.57	659.37	658.37	659.22	658.42	659.07	658.44	658.92	658.51	658.78	658.47	658.63	658.53	658.48	658.39	658.33	658.34	658.18	658.33	658.03	658.43	657.89	658.55	657.74	658.72	657.59	658.91	657.44	659.00	657.30	659.00	657.30	658.73	657.45	658.63	657.76	658.79	658.23	659.17	658.86
71+00				72+00				73+00				74+00				75+00				76+00				77+00				78+00				79+00				80+00				81+00				82+00				83+00				84+00				85+00				86+00			

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON RIVER WATERSHED
ELMHURST ROAD

SHEET NO. OF SHEETS STA. TO STA.

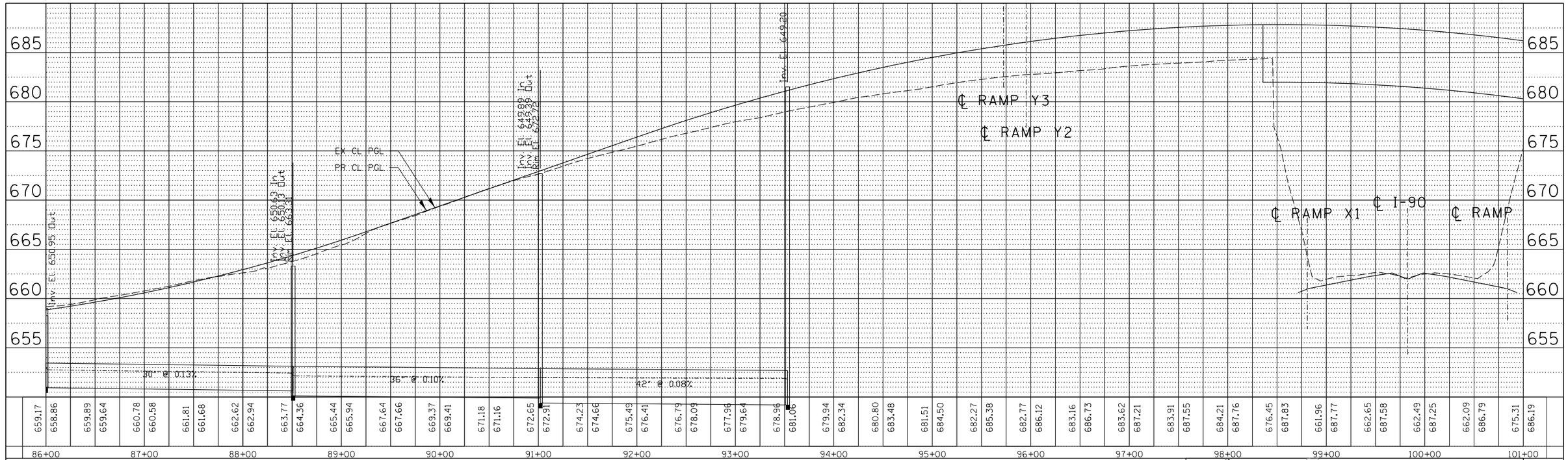
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	79
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN

BY	DATE

SURVEYED
PLOTTED
DRAWN
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

NOTE BOOK
NO.____



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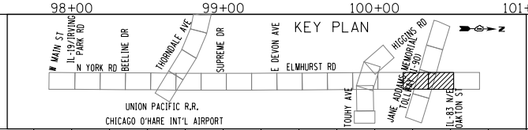
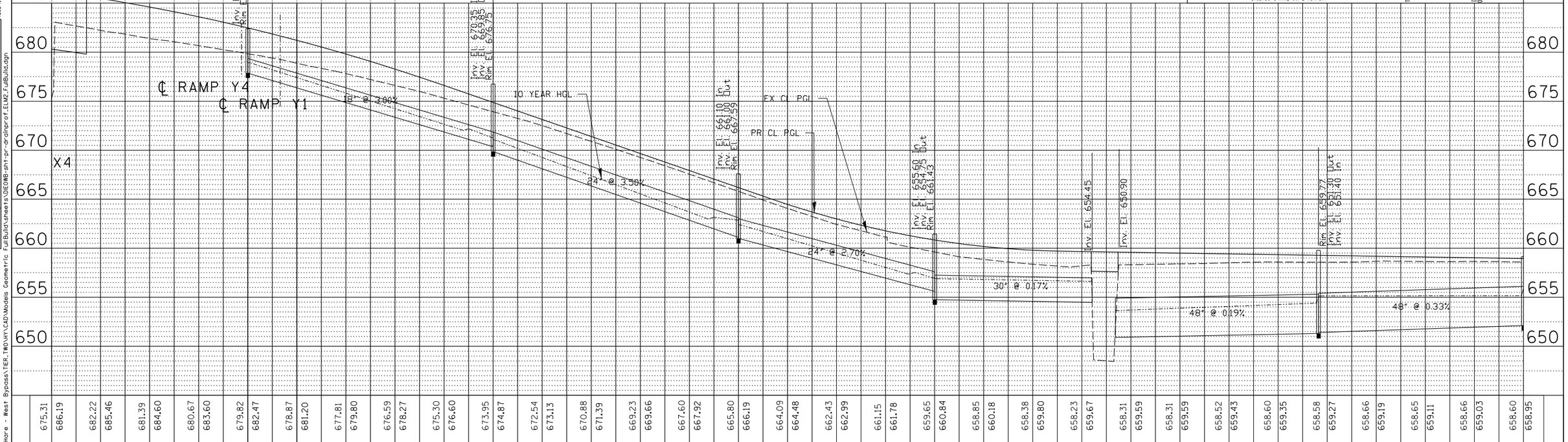


PROFILE

BY	DATE

SURVEYED
PLOTTED
DRAWN
CROSS CHECKED
ILLM. NOTED
STRUCTURE NOTATNS CHKD

NOTE BOOK
NO.____



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON RIVER WATERSHED
ELMHURST ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	80
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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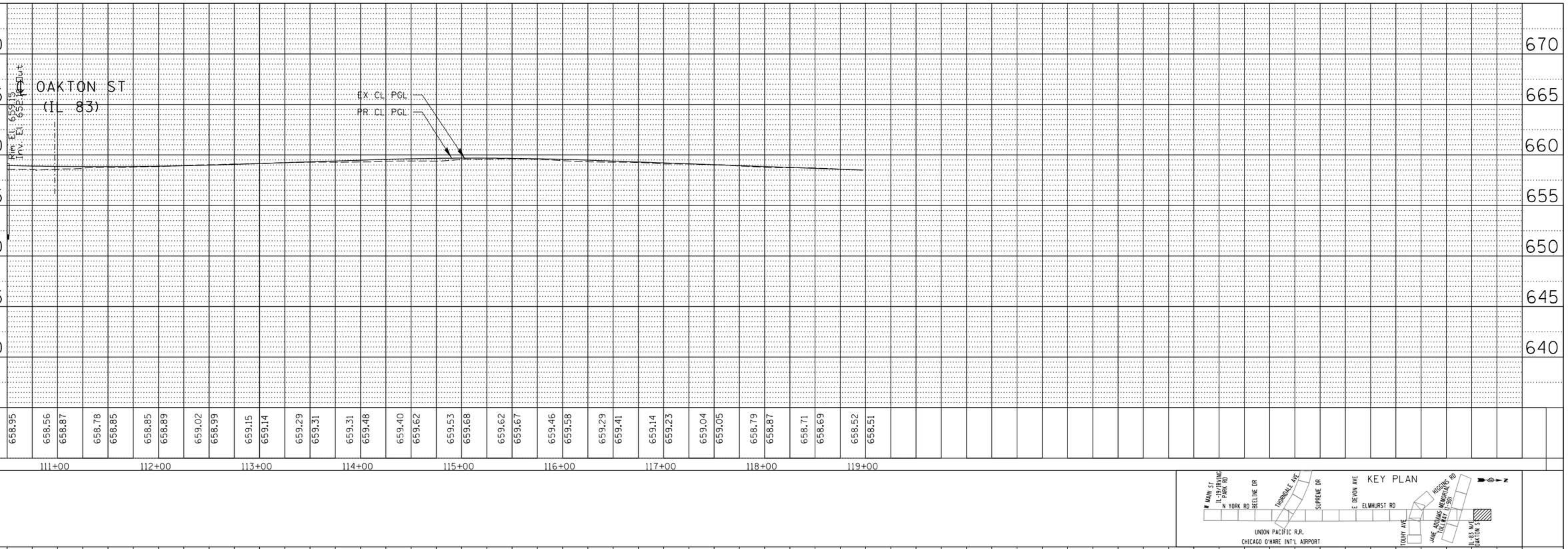

PLAN
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PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.____
BY
DATE

PROFILE
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PLOTTED
GRADES CHECKED
S.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.____
BY
DATE

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USER NAME = mantas
PLOT SCALE = 100'
PLOT DATE = 11/30/2012
DESIGNED MA/EB
DRAWN MYG
CHECKED CW
DATE -
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON RIVER WATERSHED
ELMHURST ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	81
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

RAMP
RAMP
RAMP
RAMP
RAMP
RAMP
RAMP
36" RCP
18"
15" RCP
24" RCP
24" RCP
24" RCP
12" RCP
12" RCP
12" RCP
12" RCP
48" RCP
48" RCP
36" RCP
3.5'
3.5'
7.5'
2.5'
3.5'
24" RCP
24" RCP
I–90 W.B.
I–90 E.B.
3695+00
3700+00
3705+00
42" RCP
48" RCP
18" RCP
I–90_1
D.A.= 361.7 Ac
INV=(692.86)
54" CMP CULVERT
60" CMP CULVERT
36" RCP
24" RCP
48" RCP CULVERT
48" RCP CULVERT
INV=(694.41)
S ARLINGTON HEIGHTS RD
cemetery
4'x8' PCBC
60" RCP
60" RCP
INV 695.754
INV 695.761
6" CMP
24" RCP
22" RCP
22'X42"
36" XCE60
PROJECT LIMIT
MATCH LINE SEE SHEET 83
N
0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

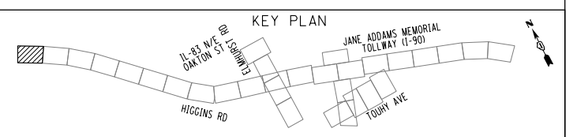
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

*MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



FILE NAME =	USER NAME = mantas	DESIGNED MA	REVISED -
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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I–90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	82
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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MATCH LINE SEE SHEET 82

MATCH LINE SEE SHEET 84

PROJECT LIMIT

RAMP

I–90 W.B.

I–90 E.B.

3710+00

3715+00

3720+00

15" RCP

12" RCP

12" RCP

RAMP Z1

1115+00

1110+00

15" RCP

18" RCP

24" RCP

24" RCP

INV=(693.90)

INV=(693.99)

(2) 54" CULVERTS

INV=(694.33)

INV=(694.28)

INV=695.30

I–90_4
D.A. = 369.1 Ac

PERMANENT DRAINAGE EASEMENT
(AS SHOWN IN RECORD DRAWINGS)

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

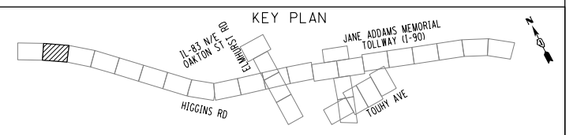
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I–90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	83
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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CLEARBROOK DR

TRIBUTARY TO
OUTLET HG 6

EX. OUTLET
HG 6
TRIBUTARY AREA: 788.0 AC

INV=(687.54)

INV=(687.50)

48" RCP

48" RCP

48" RCP

48" RCP

48" RCP

48" RCP

48" RCP

6" PVC

IN-LINE DETENTION
SITE: HG 6

WATER QUALITY/OUTLET
CONTROL STRUCTURE
INV=690.00

15" RCP

15" RCP

15" RCP

I-90 W.B.

I-90 E.B.

3725+00

3730+00

3735+00

I-90_3
D.A. = 788.0 Ac

(2) 9' X 4' CULVERTS

TRIBUTARY TO
OUTLET HG 7

INV=(688.32)

INV=(688.30)

NICOR

NICOR 22" X 42"

NICOR 36" XC-60

PERMANENT DRAINAGE EASEMENT
(AS SHOWN IN RECORD DRAWINGS)

MATCH LINE SEE SHEET 83

MATCH LINE SEE SHEET 85

N

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+75+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

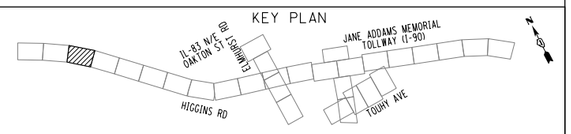
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE
WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	84
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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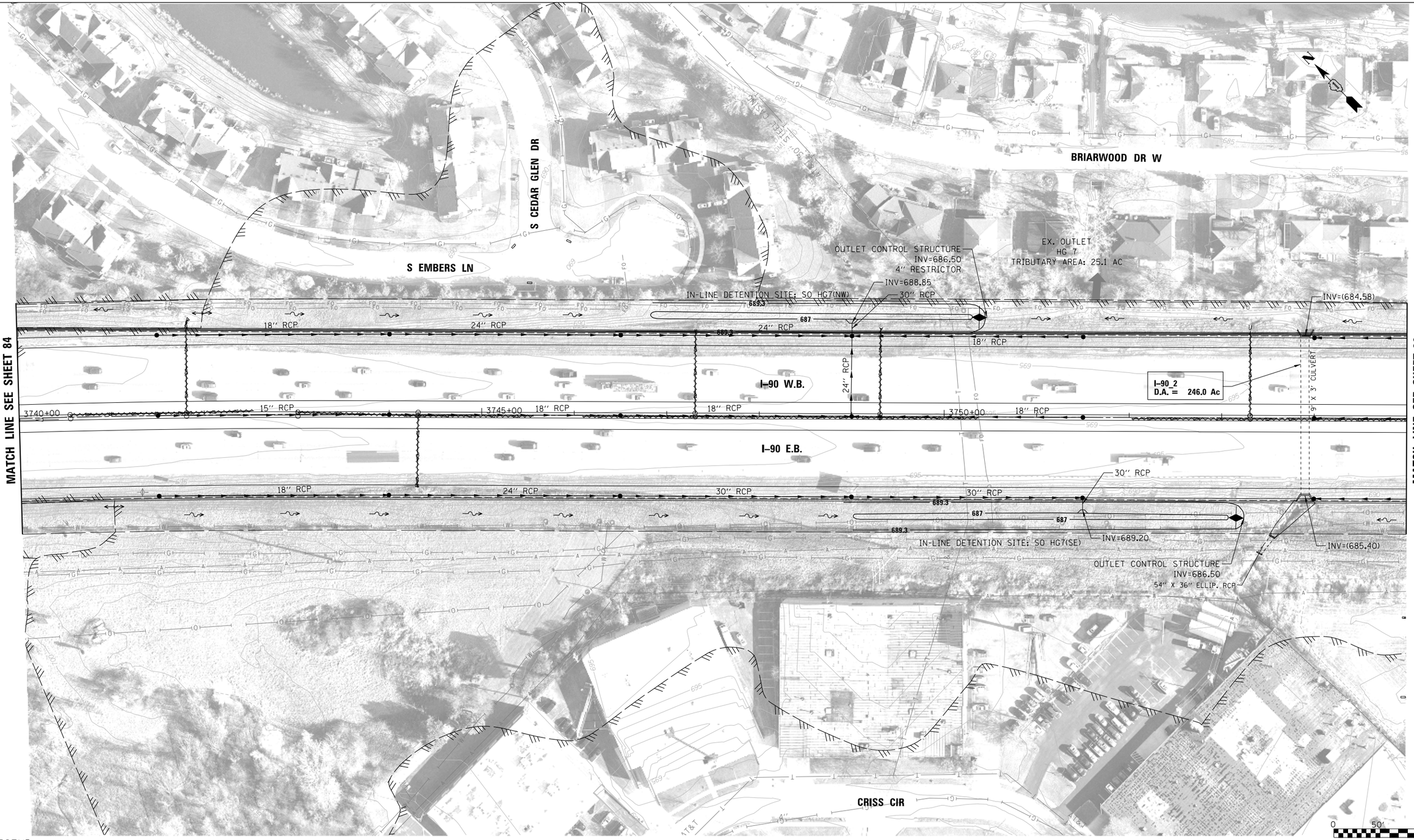


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		T T T T T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

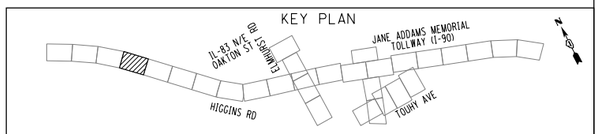
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	85
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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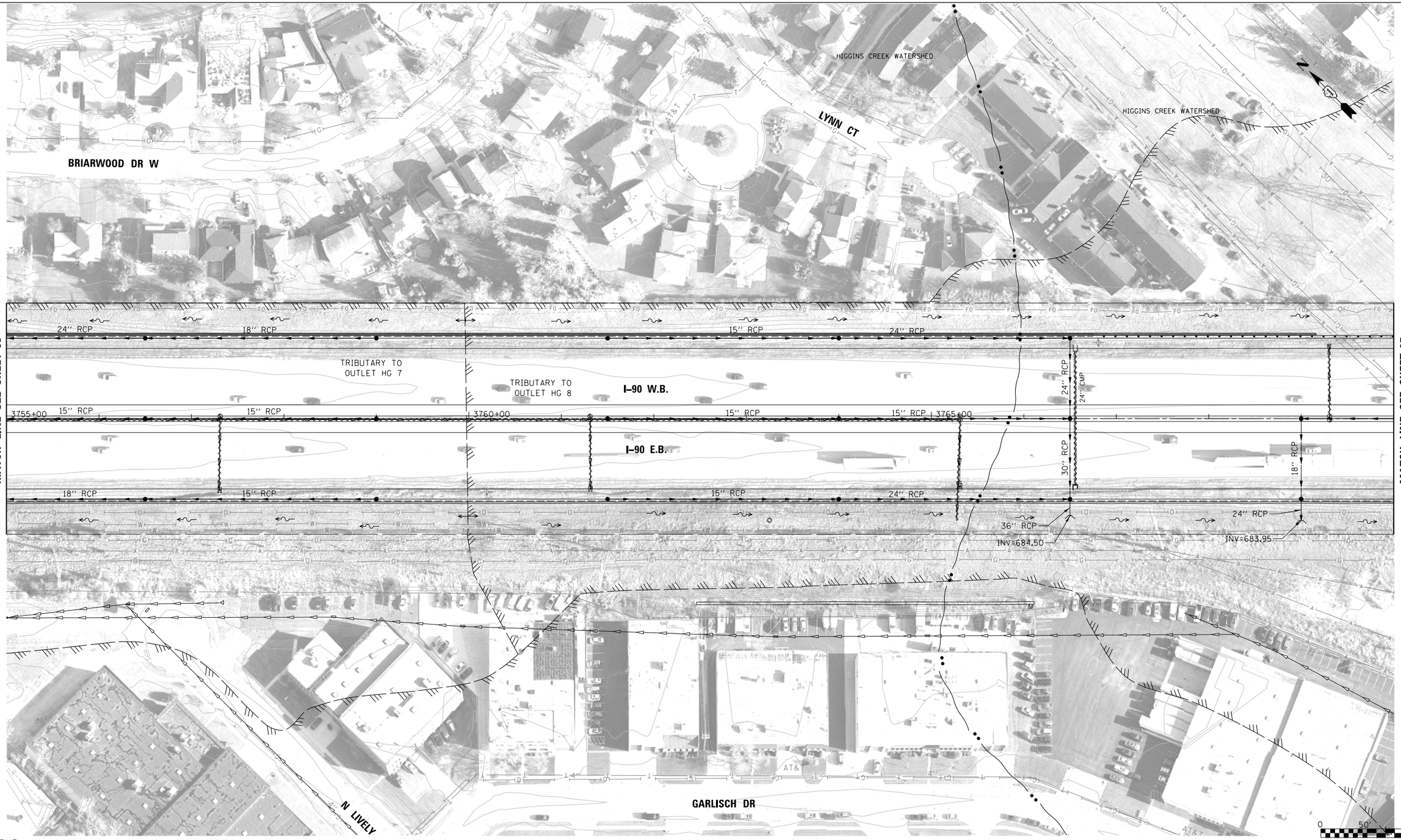


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

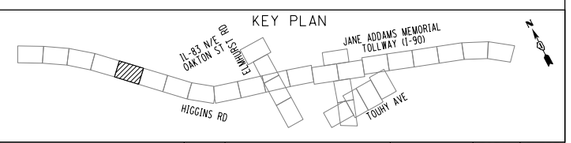
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	86
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-JAE5_FullBuild.dgn
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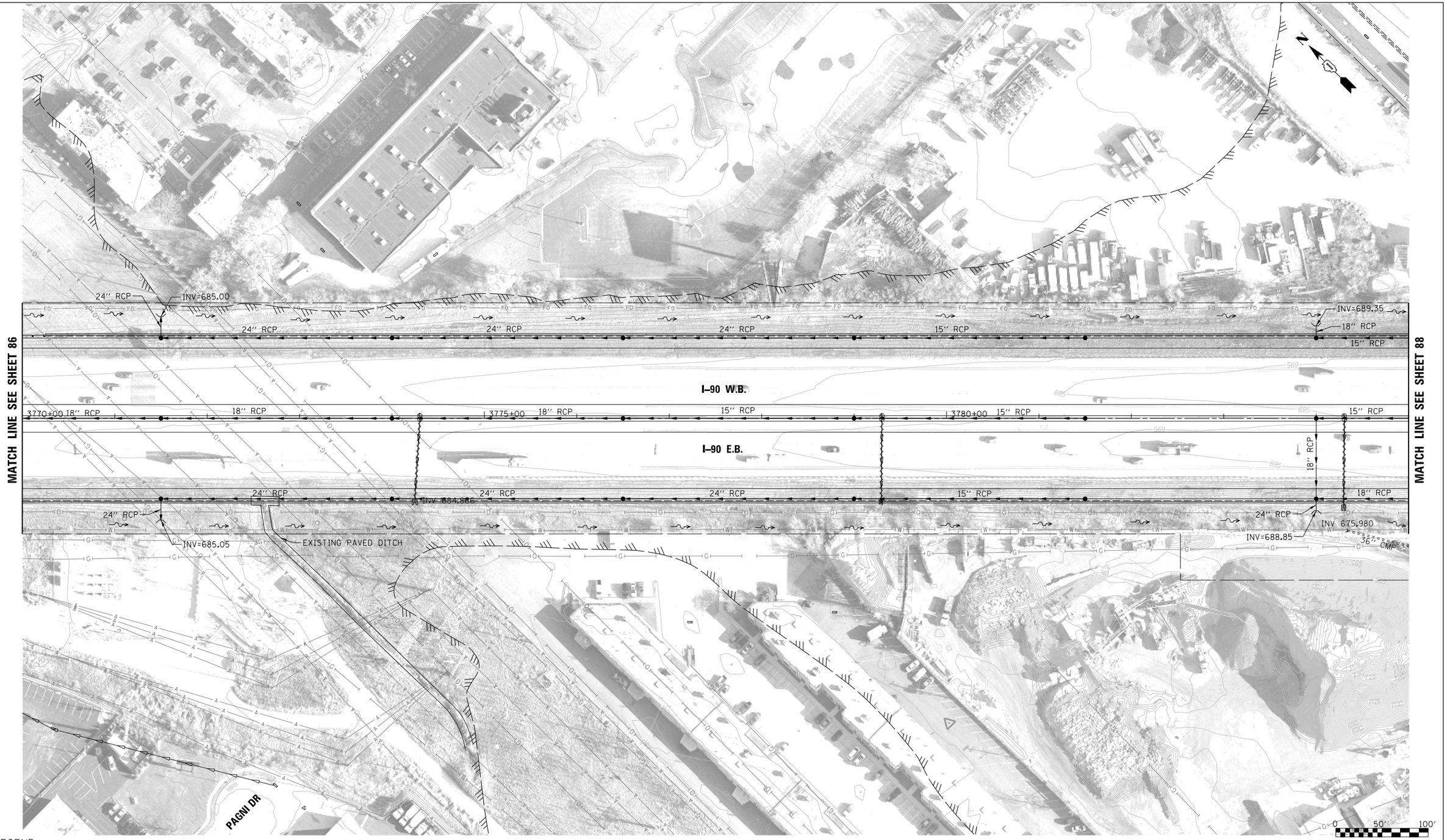


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

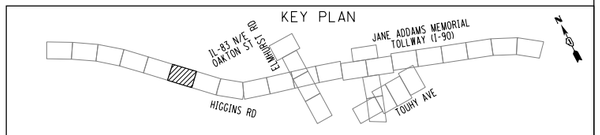
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	87
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-JAE6_FullBuild.dgn
10:07:17 AM

MATCH LINE SEE SHEET 87

MATCH LINE SEE SHEET 89

W TERMINAL DR

10TH AVE

9TH AVE

9TH AVE

BUSSE RD/IL-83

36", NMRO SEWER

NICOR 9"

INV=(673.42)

15" RCP

24" RCP

3785+00

15" RCP

12" RCP

3790+00

3795+00

15" RCP

I-90 W.B.

I-90 E.B.

36" CMP

I-90_7
D.A. = 10.8 Ac

30" RCP

18" RCP

15" RCP

18" RCP

INV=(671.32)

48" RCP

INV=(669.77)

36" CMP INV 673.418

INV=(670.87)

676

673

IN-LINE DETENTION SITE: SO HG8

I-90_6
D.A. = 45.4 Ac

NICOR

MIDWAY CT

IL-83 S/E OAKTON ST

50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

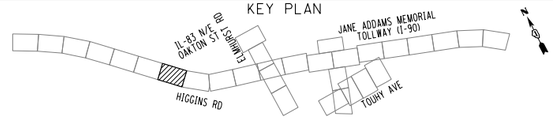
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	88
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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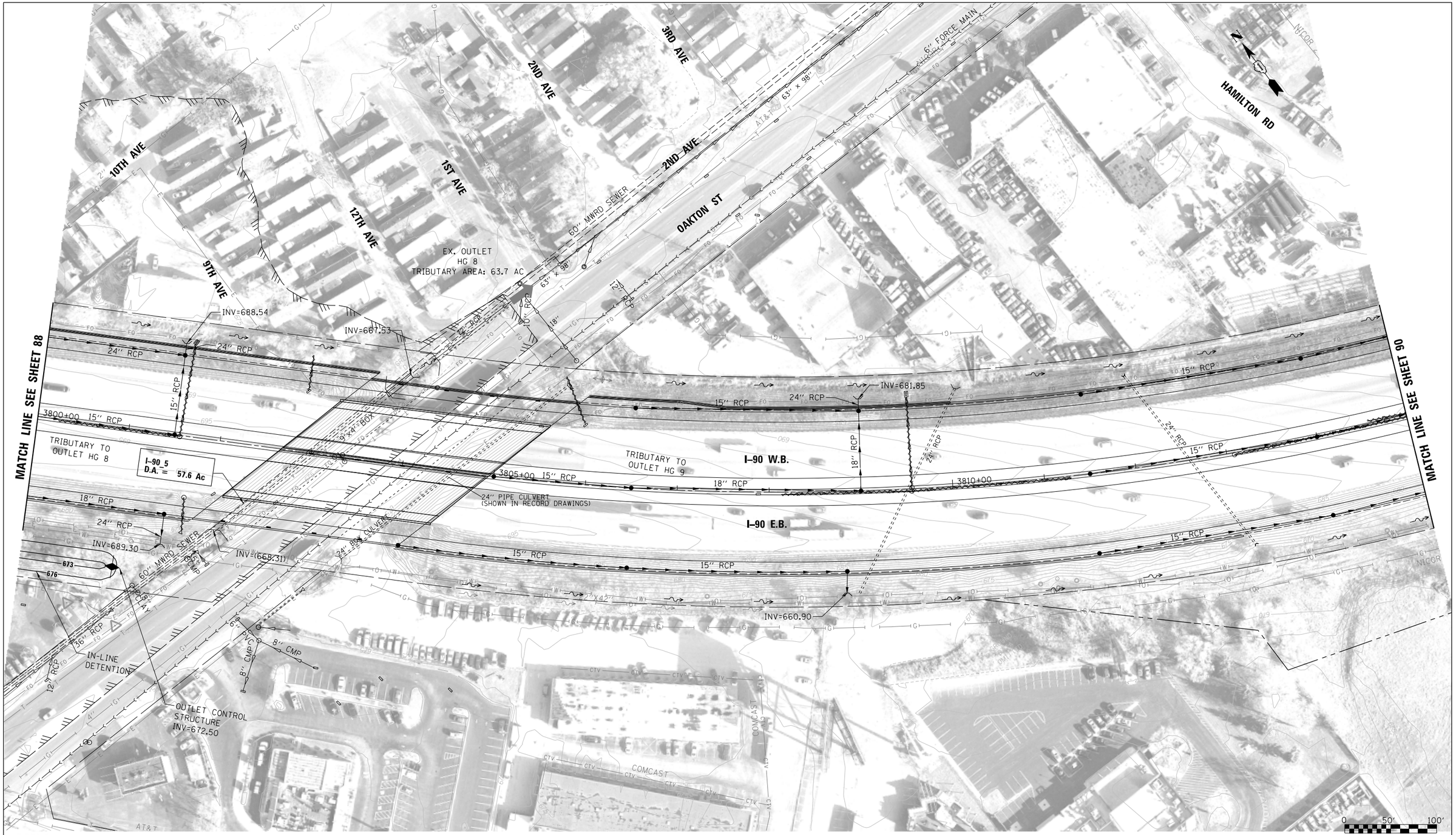


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

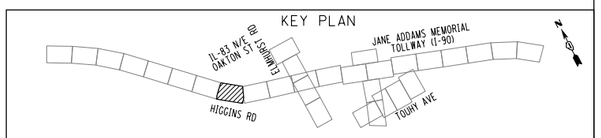
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	89
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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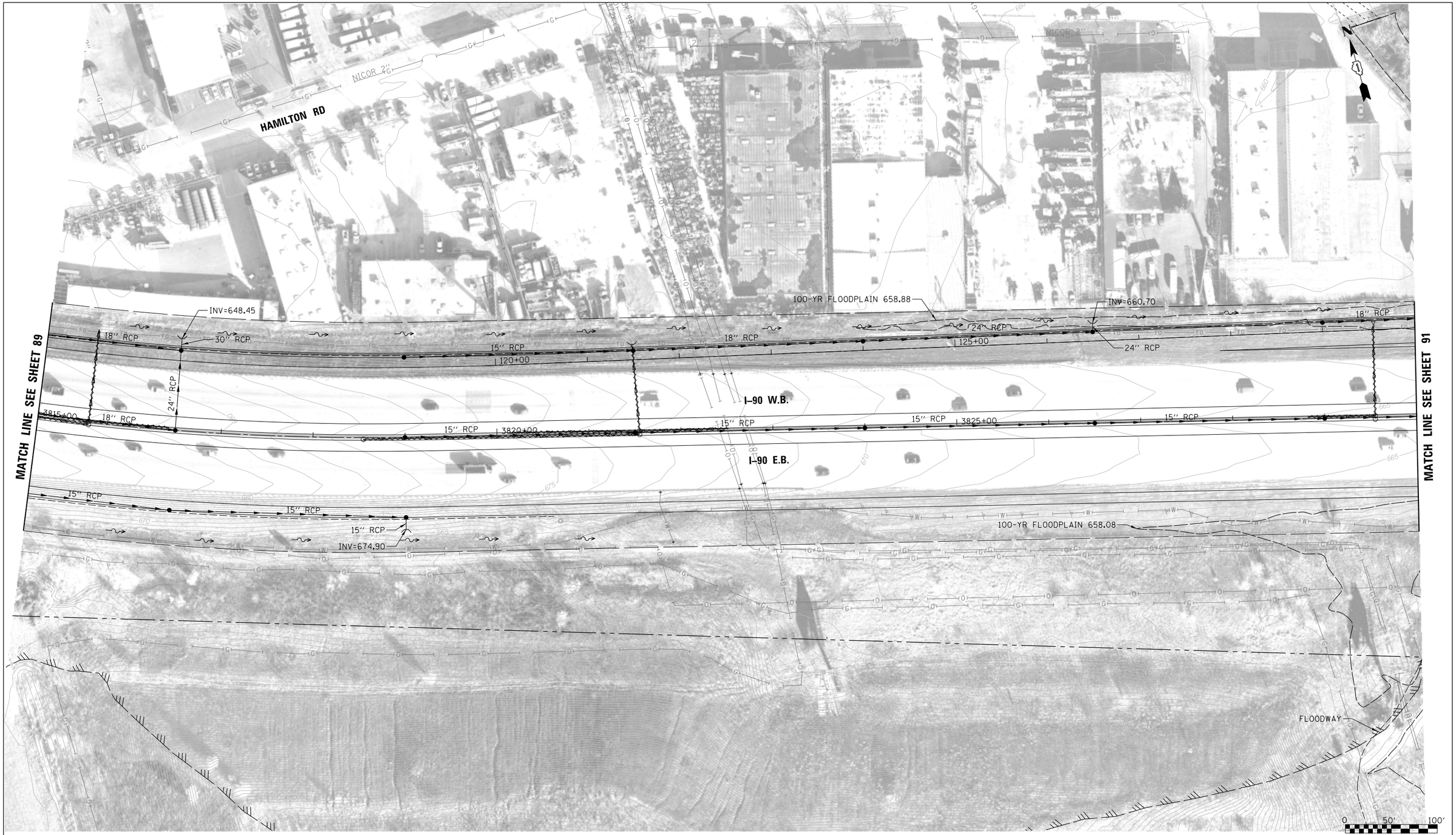


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

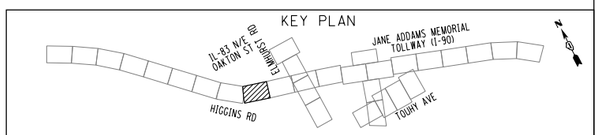
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	90
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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10:07:58 AM

MATCH LINE SEE SHEET 90

MATCH LINE SEE SHEET 92

100-YR FLOODPLAIN 657.75

FLOODWAY

HIGGINS CREEK

WATER QUALITY DEVICE

INV=655.85

30" RCP

INV=656.50

TOP OF BEDDING INV=650.00
CULVERT INV=649.00

EX. OUTLET
HG 9
TRIBUTARY AREA: 2.3 SQ MI

HIGGINS CREEK

RAMP Y1

130+00

18" RCP

24" RCP

135+00

30" RCP

15" RCP

140+00

15" RCP

15" RCP

15" RCP

440+00

24" RCP

I-90 W.B.

I-90 OVER HIGGINS
CREEK TRIB A
D.A. = 2.3 SQ MI

3830+00

18" RCP

18" RCP

24" RCP

3835+00

24" RCP

3840+00

I-90 E.B.

WATER QUALITY DEVICE

EXISTING
CULVERT TO BE
ABANDONED

(2) 9' X 6' CULVERTS

(2) 12'X9' RCBC

100-YR FLOODPLAIN 658.08

100-YR FLOODPLAIN 658.08

235+00

240+00

RAMP Y2

TOP OF BEDDING INV=650.50
CULVERT INV=649.50

50-YR DESIGN
HWL=658.57 (EX.)

HIGGINS CREEK TRIBUTARY A

100-YR FLOODPLAIN 658.90

FLOODWAY

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

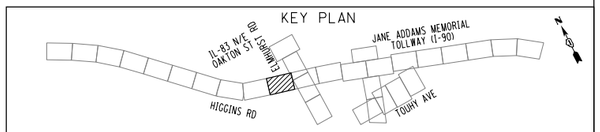
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	91
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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10:08:11 AM

SEE SHEET 77

MATCH LINE SEE SHEET 91

MATCH LINE SEE SHEET 93

SEE SHEET 76

RAMP Y1

RAMP Y2

RAMP Y3

RAMP Y4

RAMP X4

I–90 W.B.

I–90 E.B.

ELMHURST RD

HIGGINS CREEK

FLOODWAY

100-YR FLOODPLAIN 652.70

100-YR FLOODPLAIN 657.75

100-YR FLOODPLAIN 658.08

100-YR FLOODPLAIN 658.64

100-YR FLOODPLAIN 658.90

TRIBUTARY TO OUTLET HG 4

TRIBUTARY TO OUTLET HG 3

TRIBUTARY TO OUTLET HG 11

TRIBUTARY TO OUTLET HG 9

18" RCP

24" RCP (MIN.)

24" BCMP

15" RCP

24" PIPE CULVERT

CONC. DRAIN

PAVED DITCH

INV=655.05

445+00

450+00

455+00

110+00

3845+00

3850+00

3855+00

145+00

150+00

155+00

250+00

355+00

654

657

656

655

650

DETENTION SITE: D5-W
AVAILABLE DETENTION: 15.99 AC-FT
HWL=655.0 NWL=650.0
BERM=656.0
DOES NOT DRAWDOWN WITHIN 48 HRS

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

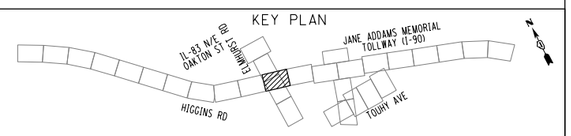
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -		
	PLOT SCALE = 100'	CHECKED CW	REVISED -		
	PLOT DATE = 11/30/2012	DATE -	REVISED -		

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I–90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	92
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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10:08:26 AM

MATCH LINE SEE SHEET 92

MATCH LINE SEE SHEET 94

100-YR FLOODPLAIN 652.70

FLOODWAY

HIGGINS CREEK

50-YR DESIGN
HWL=652.57 (EX.)

LENGTHEN TWO-SPAN BRIDGE

RAMP Y4

RAMP X4

RAMP X4

100-YR FLOODPLAIN 652.70

I-90 W.B.

I-90 E.B.

I-90 OVER
HIGGINS CREEK
D.A. = 6.8 SQ MI

18" RCP

24" RCP

15" RCP

30" RCP

42" RCP

36" RCP

24" RCP

460+00

115+00

465+00

470+00

3860+00

3865+00

3870+00

160+00

165+00

170+00

360+00 RAMP Y3

INV=650.50

INV=652.95

OUTLET CONTROL STRUCTURE
INV=650.00
6" RESTRICTOR

BACKFLOW PREVENTION DEVICE

COMPENSATORY STORAGE
SITE: CS7-W

AVAILABLE STORAGE:
NORMAL - 10YR: 0.0 AC-FT
10-100YR: 6.91 AC-FT

POND DESIGNED TO BE
ACCESSED ABOVE 10-YEAR WSEL

100 YR = 652.70
10 YR = 650.60
NWL = 646.12

COMPENSATORY STORAGE
SITE: CS7-E

AVAILABLE STORAGE:
NORMAL - 10YR: 5.36 AC-FT
10-100YR: 2.38 AC-FT

100 YR = 652.70
10 YR = 650.60
NWL = 646.12

100-YR FLOODPLAIN 652.70

EX. OUTLET
HG 11
TRIBUTARY AREA: 6.8 SQ MI

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+00	1+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

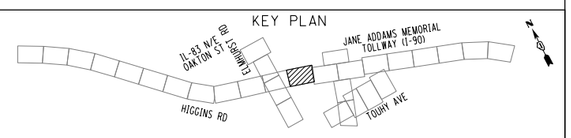
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	93
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-JAE12.FullBuild.dgn
10:08:39 AM

MATCH LINE SEE SHEET 93

SEE SHEET 228

MATCH LINE SEE SHEET 95

INV=651.16
INV=650.65
30" RCP
48" RCP
15" RCP
RAMP X4
480+00
100-YR FLOODPLAIN 653.30
INV.=651.05
PAVED DITCH
24" RCP
INV=653.74
INV=652.20
24" (MIN.)
RAMP X5
335+00
75+00
680+00
685+00
18" RCP
TRIBUTARY TO OUTLET HG 11
TRIBUTARY TO OUTLET HG 37
I-90 W.B.
3875+00
3880+00
3885+00
I-90 E.B.
42" RCP
30" CMP
575+00
1575+00
580+00
585+00
RAMP X8
180+00
185+00
CONC DRAIN
TRIBUTARY TO OUTLET HG 36
WATER QUALITY DEVICE
INV=651.07
FLOODWAY
PROP OUTLET HG 36
TRIBUTARY AREA: 0.6 AC
654
648
INV=649.55
OUTLET CONTROL STRUCTURE
INV=647.00
12" RESTRICTOR
DETENTION SITE: D5-E
AVAILABLE DETENTION: 12.53 AC-FT
HWL=654.0 NWL=647.0
BERM=657.0 GRAVEL LAYER=648.0
DRAWDOWN WITHIN 48 HRS
RAMP X1
36" BCCMP
HIGGINS CREEK
100-YR FLOODPLAIN 652.70
EX. OUTLET HG 37
TRIBUTARY AREA: 53.2 AC
190+00
15" RCP
0
50'
100'

SEE SHEET 147

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

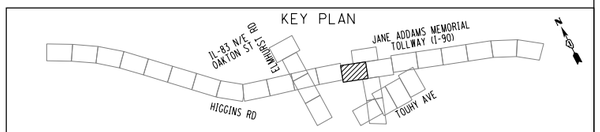
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	94
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-JAE13_FullBuild.dgn
10:08:51 AM

SEE SHEET 228

MATCH LINE SEE SHEET 94

MATCH LINE SEE SHEET 96

RAMP X5 12" RCP

RAMP X4 12" RCP

RAMP X5

340+00

690+00

15" RCP

420+00

I-90 W.B.

I-90 E.B.

3890+00

3895+00

30" RCP

6" CMP

3900+00

15" RCP

590+00

595+00

30" RCP

DETENTION SITE: D5-E
AVAILABLE DETENTION: 12.53 AC-FT
HWL=654.0 NWL=647.0
BERM=657.0 GRAVEL LAYER=648.0
DRAWDOWN WITHIN 48 HRS

INV=651.00

648

654

INV=653.52

15" RCP

145+00

215+00

48" RCP

RAMP X2

220+00

15" RCP

12" BCMP

345+00

18" RCP

CONC DRAIN

350+00

24" RCP

36"

TRIBUTARY TO OUTLET HG 26

TRIBUTARY TO OUTLET HG 37

TRIBUTARY TO OUTLET HG 37

INV=658.60

600+00

24" RCP

15" BCMP

225+00

TRIBUTARY TO OUTLET HG 27

S MT PROSPECT RD

NICOR

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

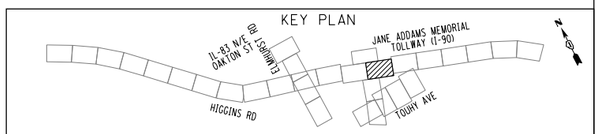
	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

SEE SHEET 147

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	95
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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10:09:04 AM

MATCH LINE SEE SHEET 95

MATCH LINE SEE SHEET 97

TRIBUTARY TO
OUTLET HG 26

48" RCP

CLEARWATER DR

N

I-90 W.B.

I-90 E.B.

3905+00

3910+00

3915+00

6" CMP

15" RCP

6" CMP

18" RCP

60" RCP

24" RCP

24" RCP

18" RCP

15" RCP

6" CMP

6" CMP

6" CMP

6" CMP

6" CMP

15" RCP

36" RCP

42" RCP

I 230+00

I 235+00

I 240+00

I 355+00

I 360+00

I 365+00

15" RCP

18" RCP

24" RCP

INV=655.91

INV=671.90

TRIBUTARY TO
OUTLET HG 37

EX. OUTLET
HG 26
TRIB AREA: 14.02 AC

TRIBUTARY TO
OUTLET HG 26

TRIBUTARY TO
OUTLET HG 15

TRIBUTARY TO
OUTLET HG 15

60" RCP

S MT PROSPECT RD

UNION PACIFIC R.R.

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	I 430+00	I 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

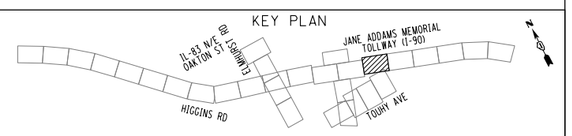
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	96
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36i80 - Elgin O'Hare - West Bypass\TIER_TWO\HYCAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drain-JAEI5_FullBuild.dgn
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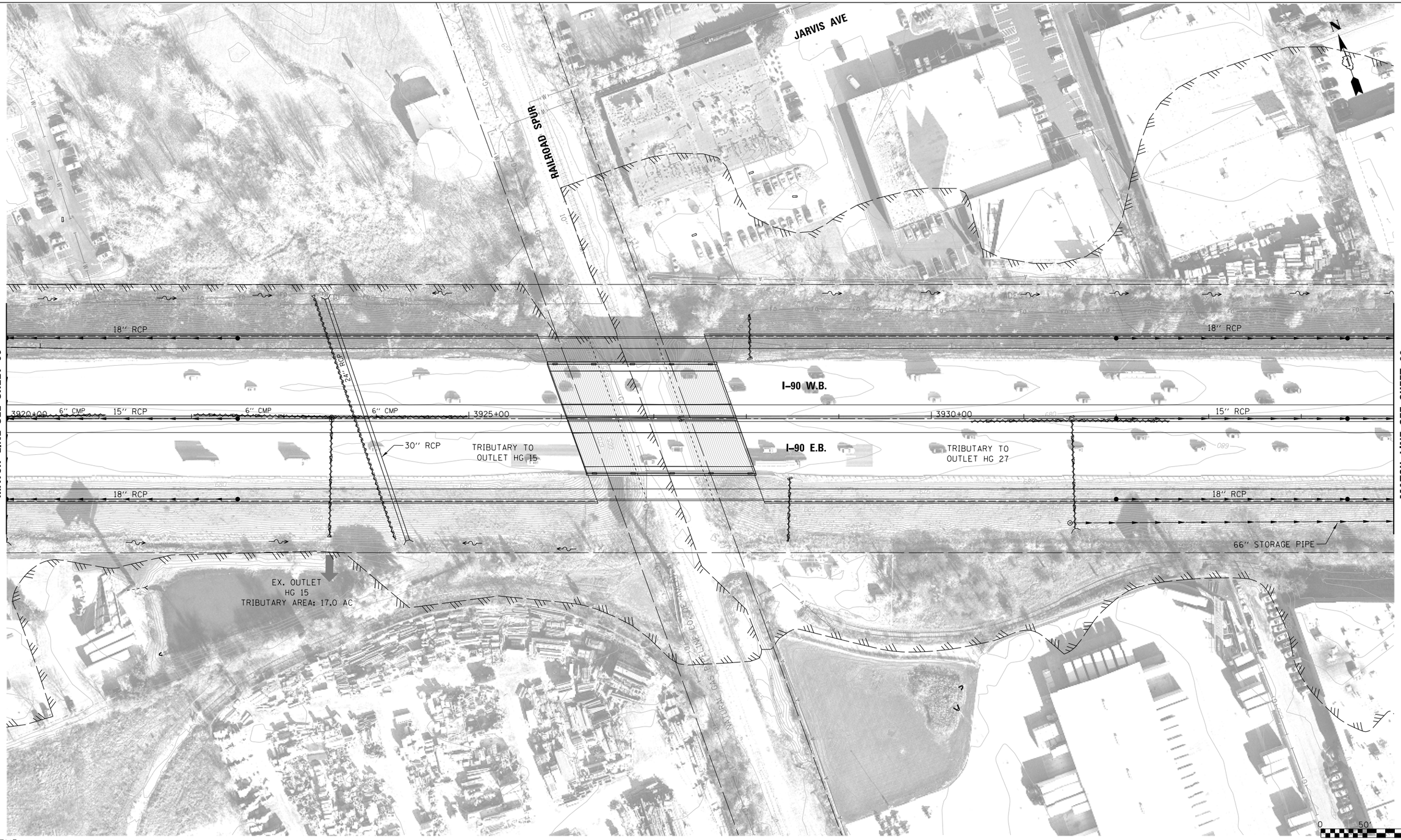


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

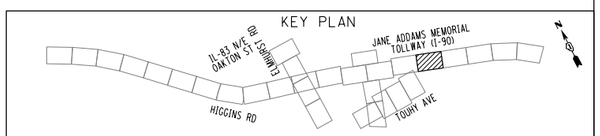
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	97
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-JAEI6_FullBuild.dgn
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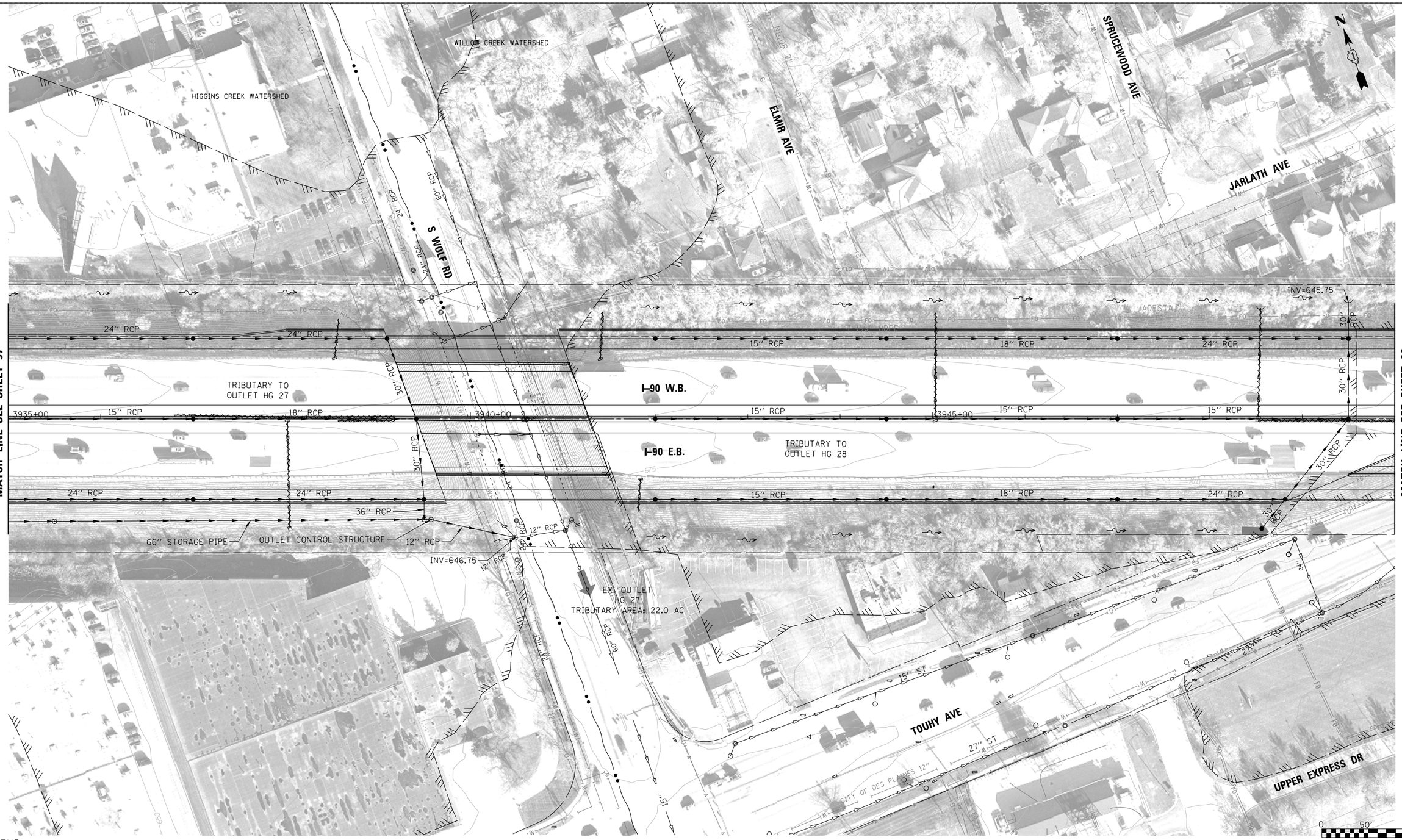


MATCH LINE SEE SHEET 97

MATCH LINE SEE SHEET 99

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+75+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

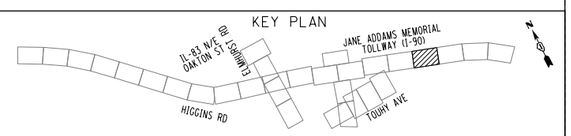
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED / HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	98
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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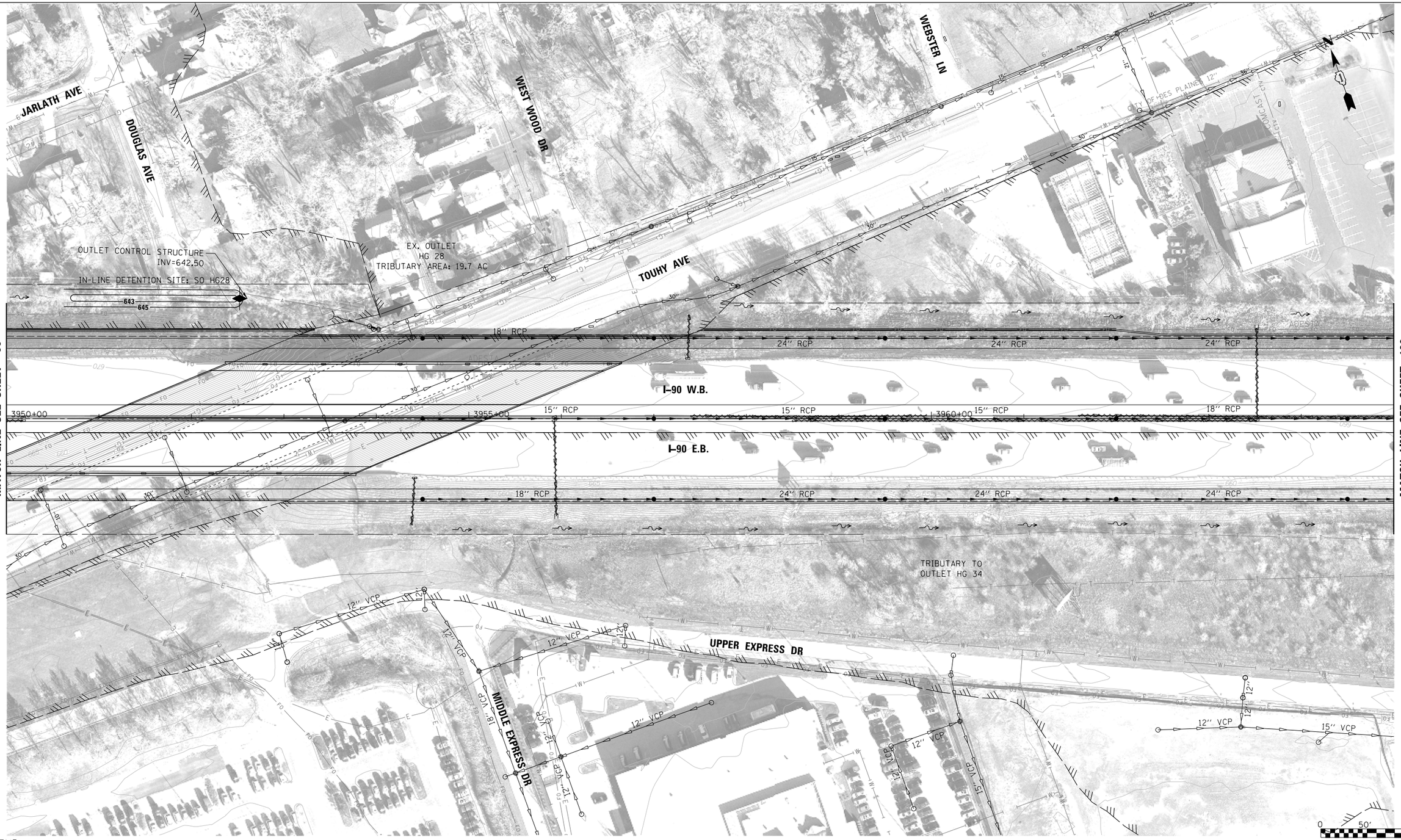


MATCH LINE SEE SHEET 98

MATCH LINE SEE SHEET 100

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

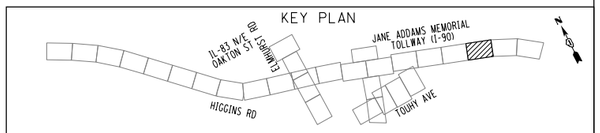
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	99
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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10:09:55 AM

MATCH LINE SEE SHEET 99

MATCH LINE SEE SHEET 101

EX. OUTLET
HG 38
TRIBUTARY AREA: 10.0 AC

INV=645.00

30" RCP

24" RCP

18" RCP

PROJECT LIMIT

TRIBUTARY TO
OUTLET HG 38

3965+00

18" RCP

CONC. DRAIN

CONC. DRAIN

CONC. DRAIN

TRIBUTARY TO
OUTLET HG 35

3970+00

15" RCP

15" RCP

I-90 W.B.

I-90 E.B.

3975+00

15" RCP

18" RCP

IN-LINE DETENTION
SITE: SO HG35

641

639

639

641

OUTLET CONTROL STRUCTURE
INV=638.50

15" RCP

18" RCP

24" RCP

24" RCP

24" RCP

24" RCP

INV=641.00

ABANDONED OUTLET
HG 29

TRIBUTARY TO
OUTLET HG 34

UPPER EXPRESS DR

12" VCP

12" VCP

15" VCP

12" VCP

15" VCP

30" RCP

12" VCP

12" VCP

12" VCP

15" VCP

18" VCP

12" VCP

18" VCP

0 50' 100'

N

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

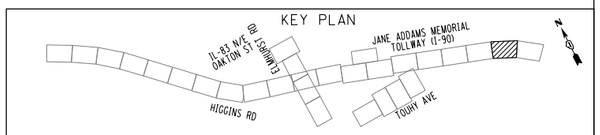
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	100
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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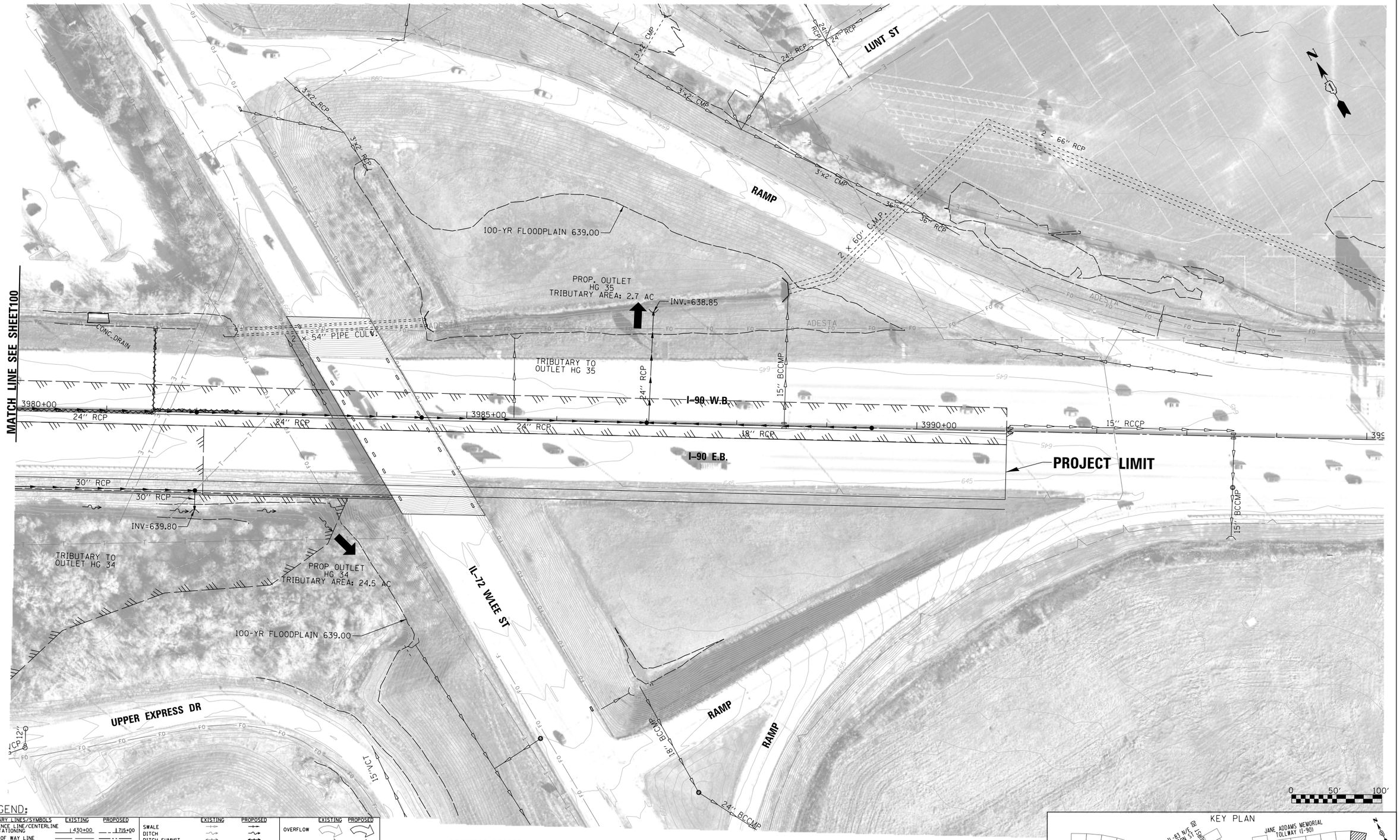


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

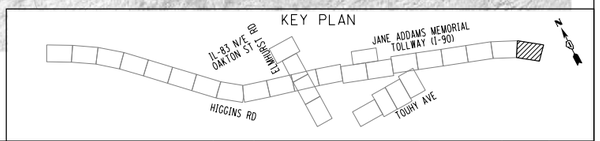
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	101
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-JAE20_FullBuild.dgn
10:02:23 AM

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		

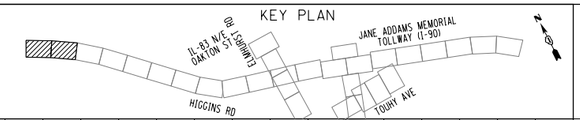
NOTE BOOK
NO.____

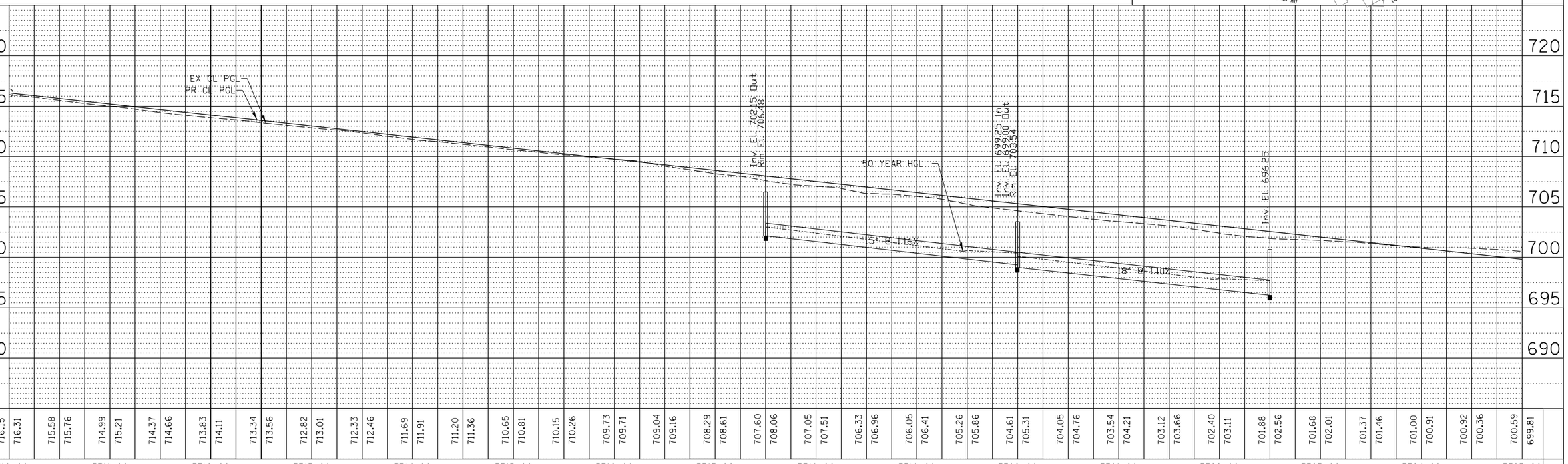
PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
S.M. NOTED		
STRUCTURE NOTATNS CHKD		

NOTE BOOK
NO.____

KEY PLAN





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	PLOT DATE = 11/30/2012	DATE -

REVISED	-	
REVISED	-	
REVISED	-	
REVISED	-	

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	102
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_90PFI_FullBuild.dgn 10:10:31 AM

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
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PROFILE

	BY	DATE
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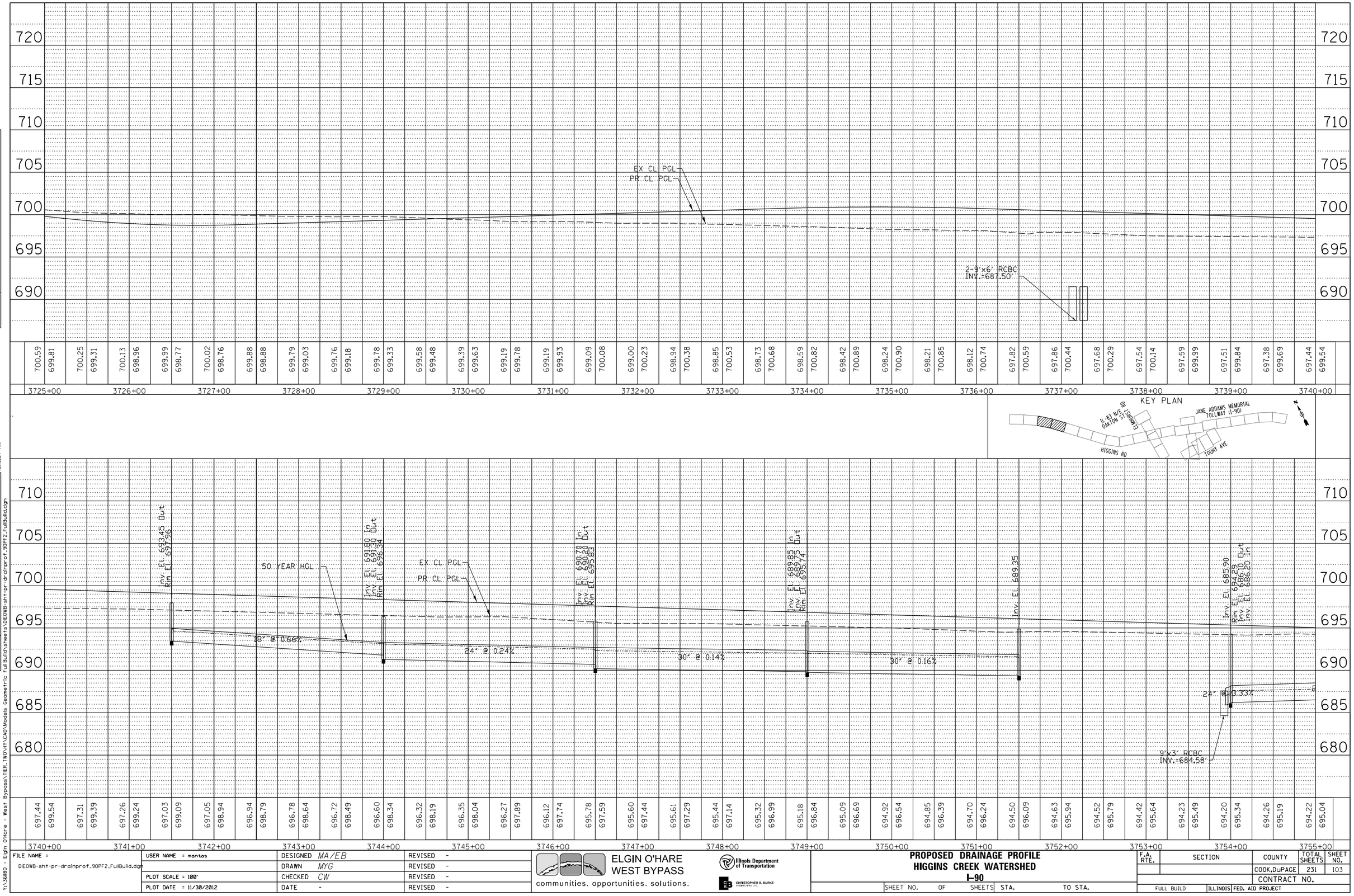
PROFILE CHECKED		
S.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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PROPOSED DRAINAGE PROFILE
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	103
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_90PF2_FullBuild.dgn 10:0:37 AM

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ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
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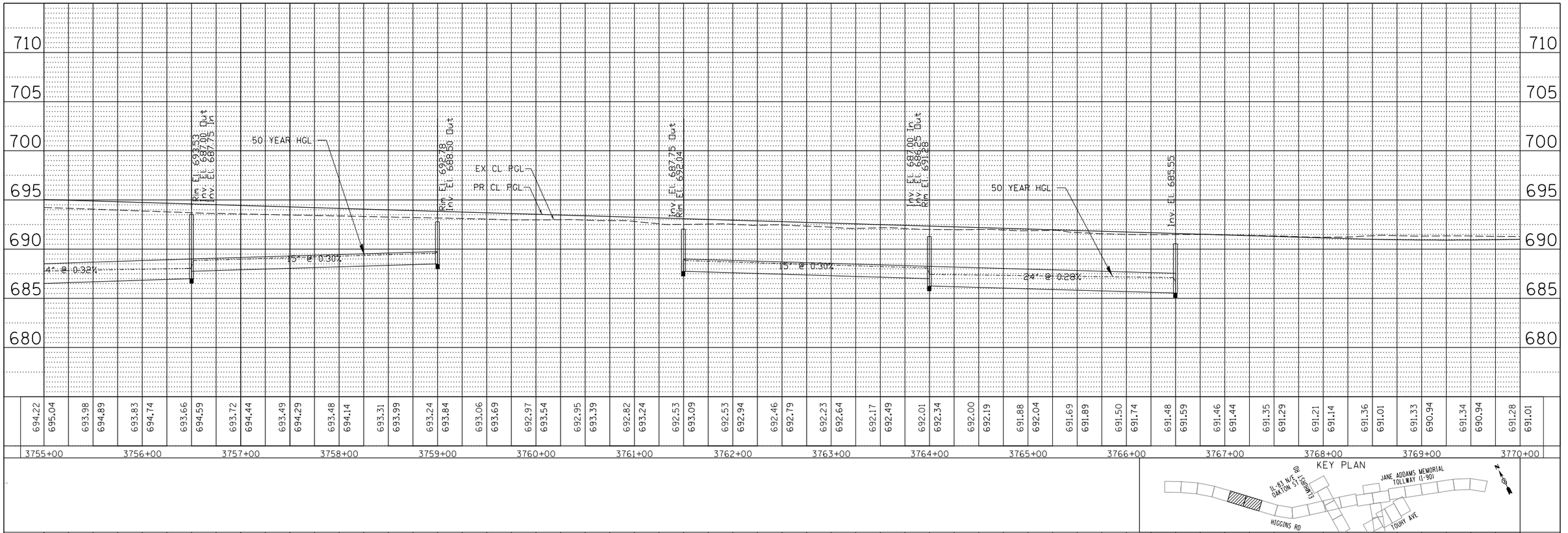
BY	DATE



PROFILE

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PLOTTED	
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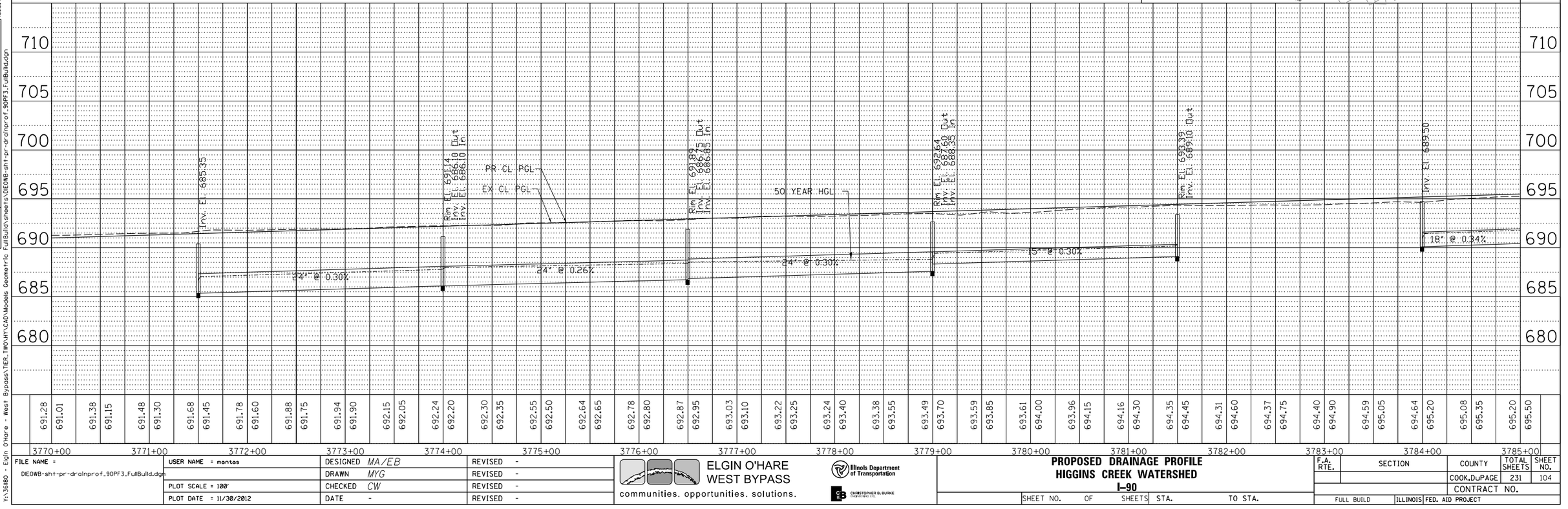
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	

BY	DATE



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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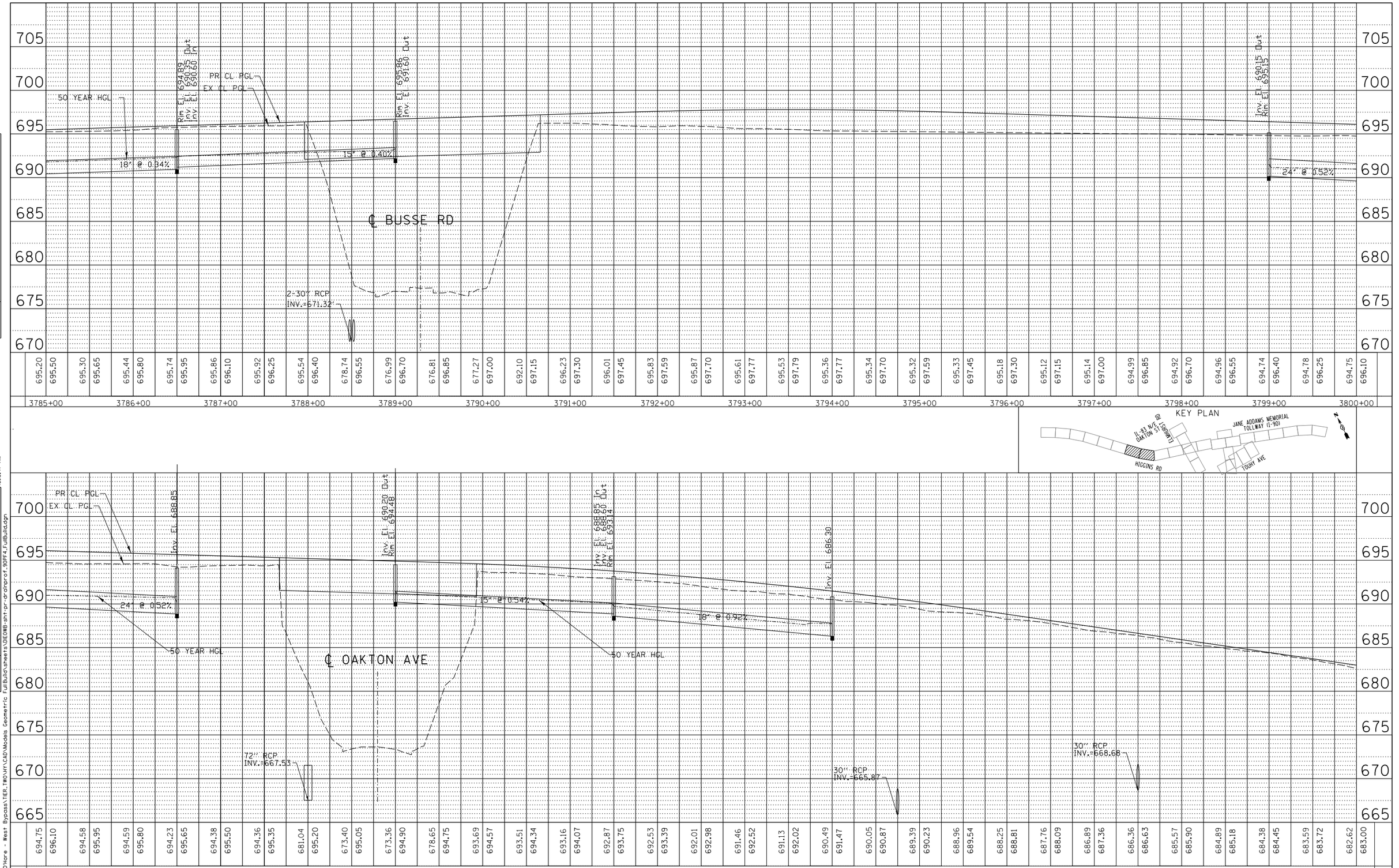
PROPOSED DRAINAGE PROFILE
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	104
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
S.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER.TWO\H\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_90PF4_FullBuild.dgn 10:10:47 AM

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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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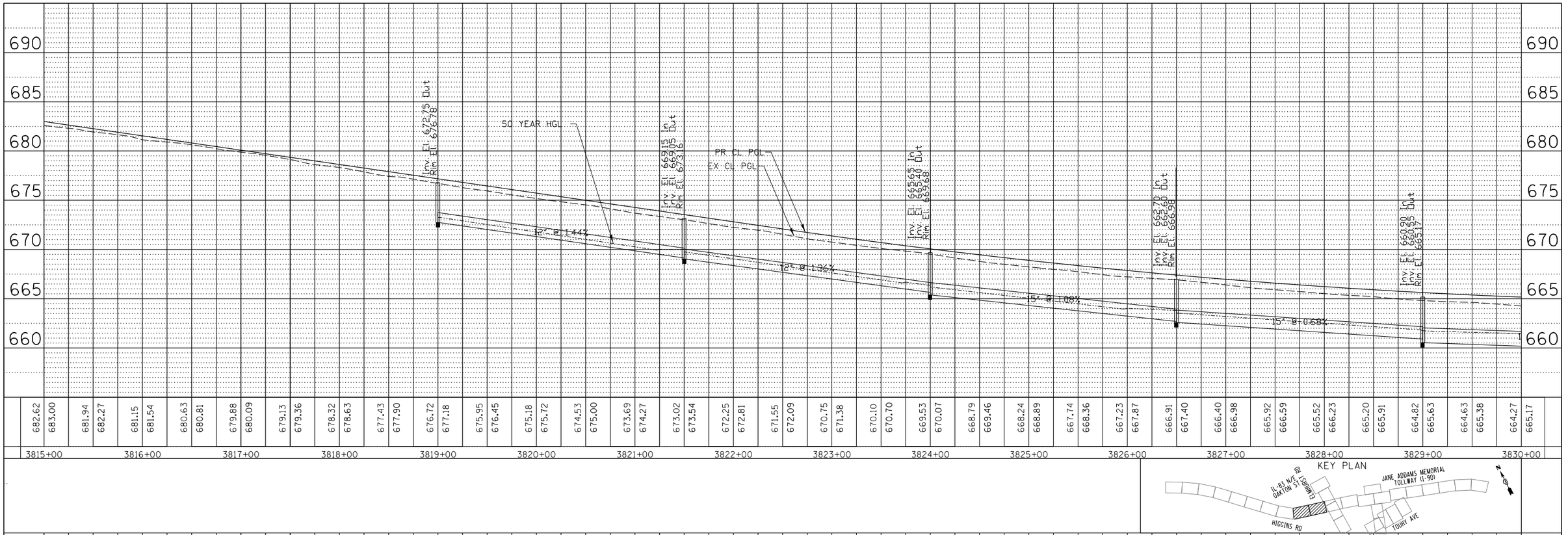
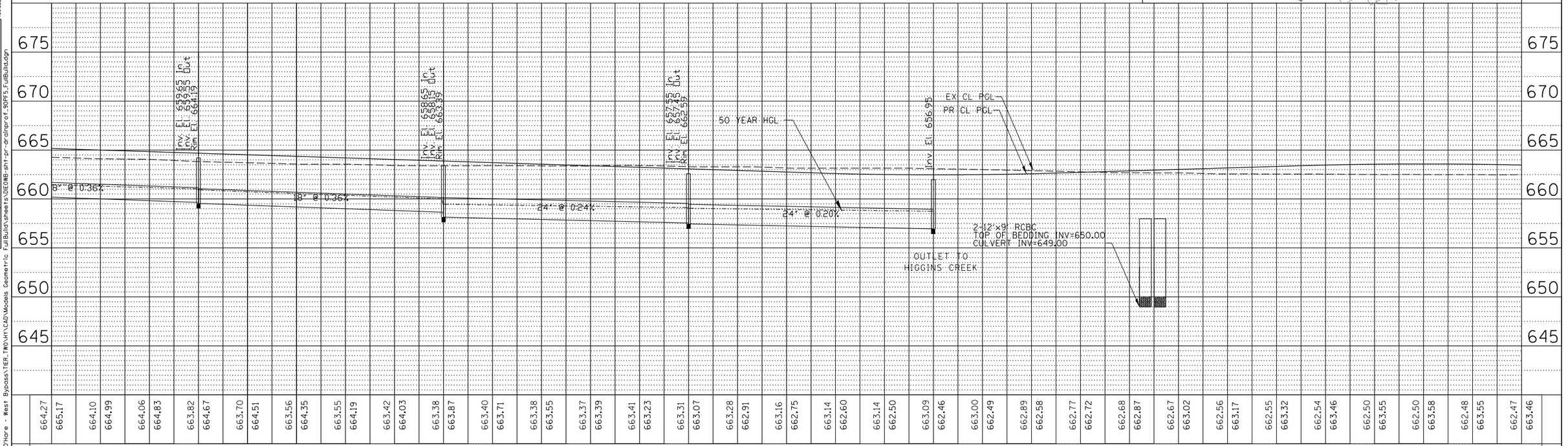
Illinois Department of Transportation
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
HIGGINS CREEK WATERSHED
I-90
SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	105
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		





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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
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PLOTTED
GRADES CHECKED
S.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_90PF5_FullBuild.dgn 10:10:53 AM

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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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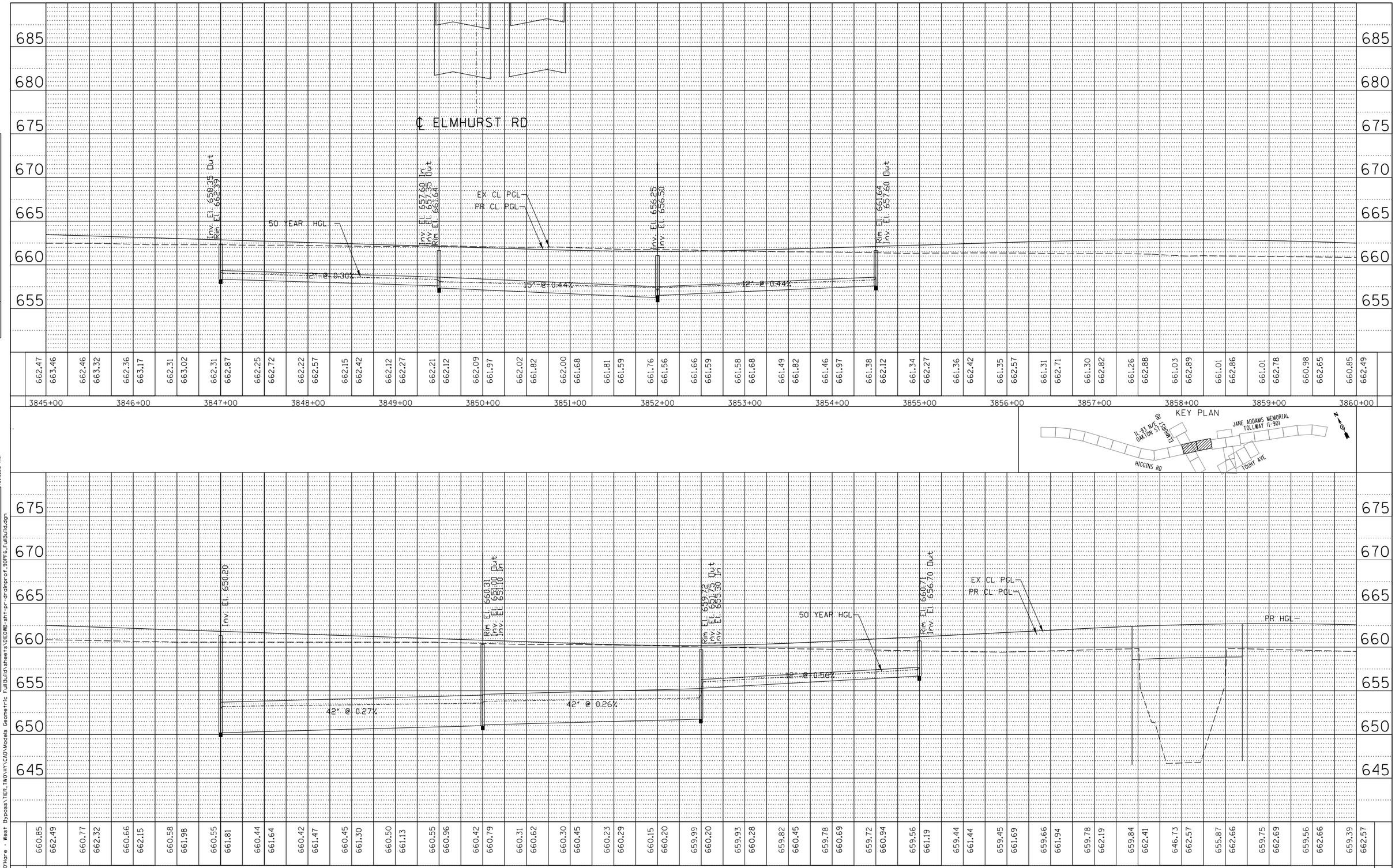
PROPOSED DRAINAGE PROFILE
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	106
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
DRAWN
NOTE BOOK
NO.
CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
DRAWN
NOTE BOOK
NO.
CHECKED
SLM NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

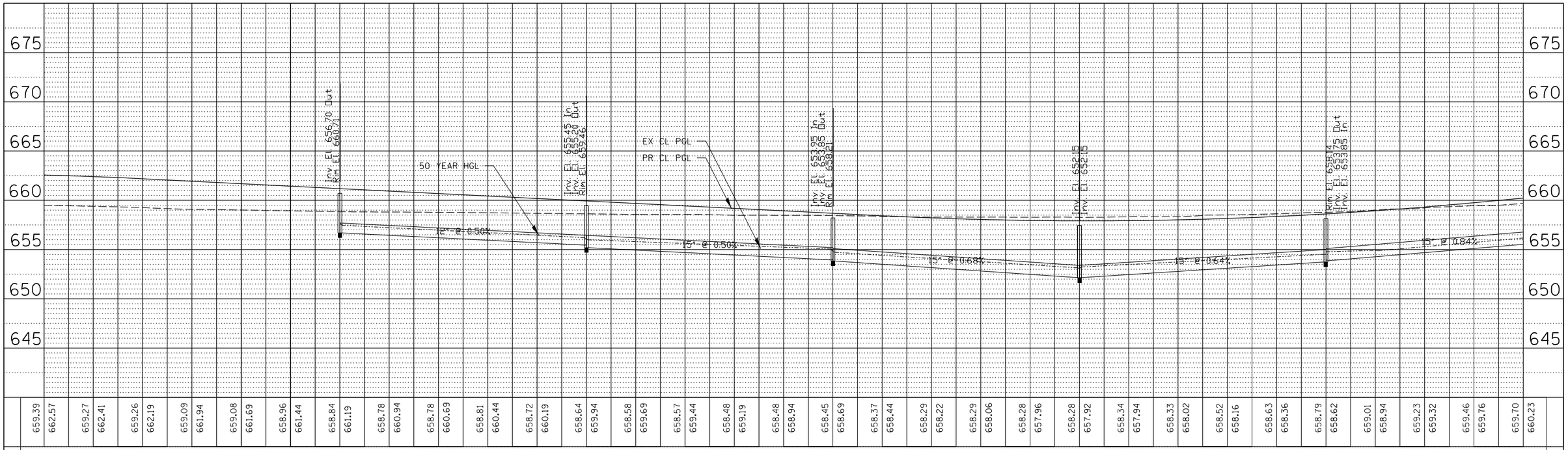
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	107
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN

BY	DATE

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

NOTE BOOK
NO.



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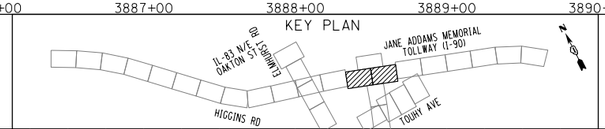

PROFILE

BY	DATE

SURVEYED
PLOTTED
ALIGNMENT CHECKED
SUM. NOTED
STRUCTURE NOTATNS CHKD

NOTE BOOK
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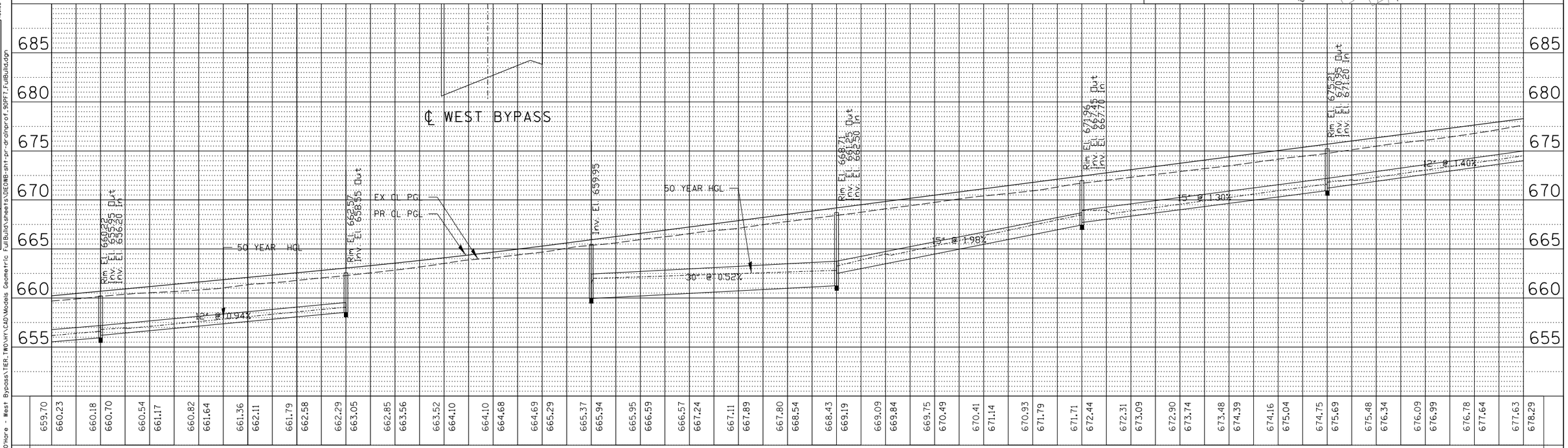

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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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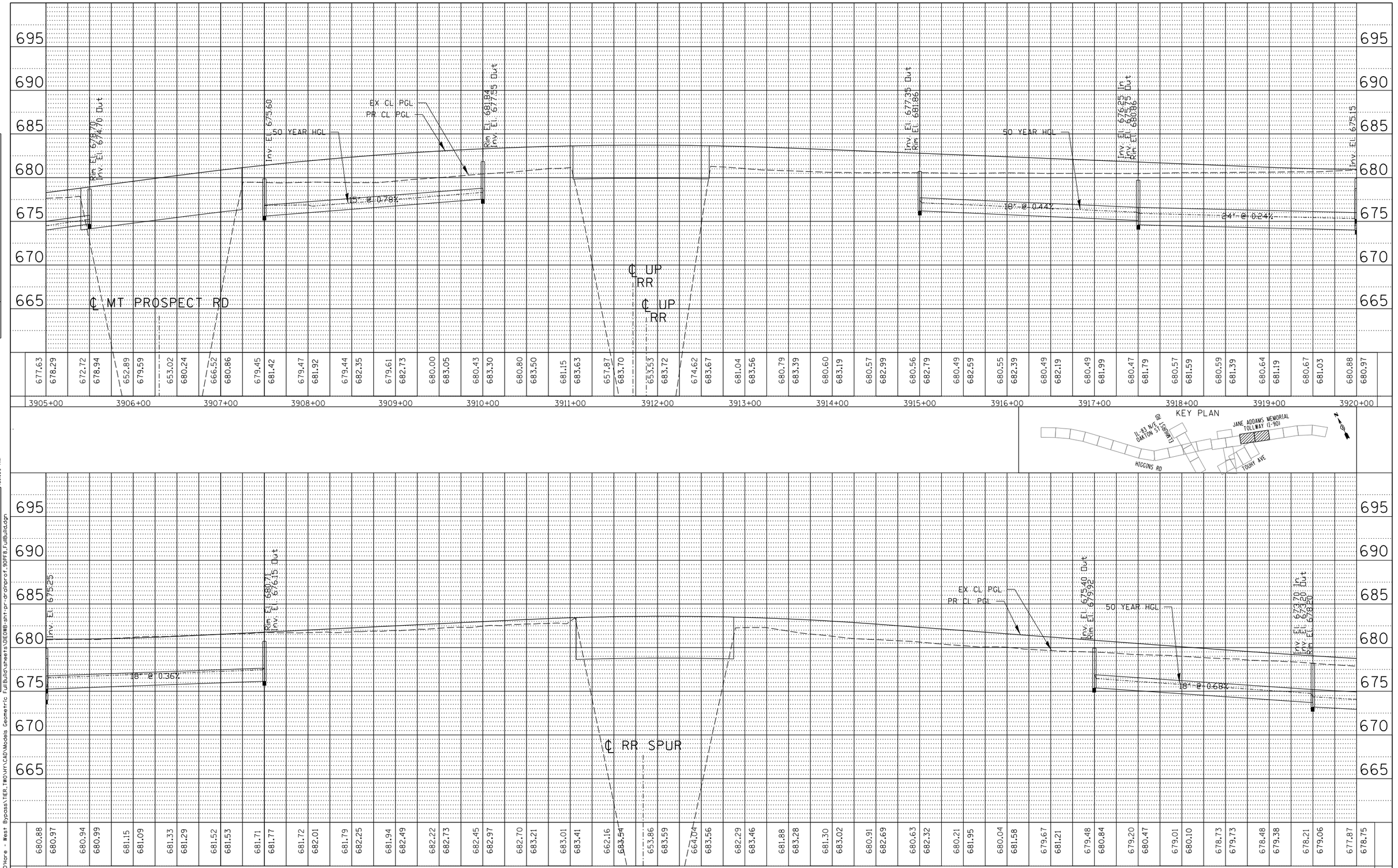
CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PROFILE
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	108
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_90PF7_FullBuild.dgn 10/11/04 AM



PLAN
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
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PROFILE CHECKED
SUM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
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BY
DATE

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PROPOSED DRAINAGE PROFILE
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	109
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
DESIGNED
NOTE BOOK
NO.
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

690
685
680
675
670
665
660

Inv. El. 671.85 In
Inv. El. 671.75 Out
Rim El. 676.88

Inv. El. 670.40

Inv. El. 669.70 Out
Rim El. 673.97

Inv. El. 668.40 In
Inv. El. 668.15 Out
Rim El. 672.67

Inv. El. 666.50 In
Inv. El. 666.40 Out
Rim El. 671.42

Inv. El. 663.96

24" @ 0.54%
24" @ 0.54%
15" @ 0.52%
18" @ 0.50%
24" @ 0.98%

50 YEAR HGL
EX CL PGL
PR CL PGL

℄ WOLF RD

| | | |

PLAN

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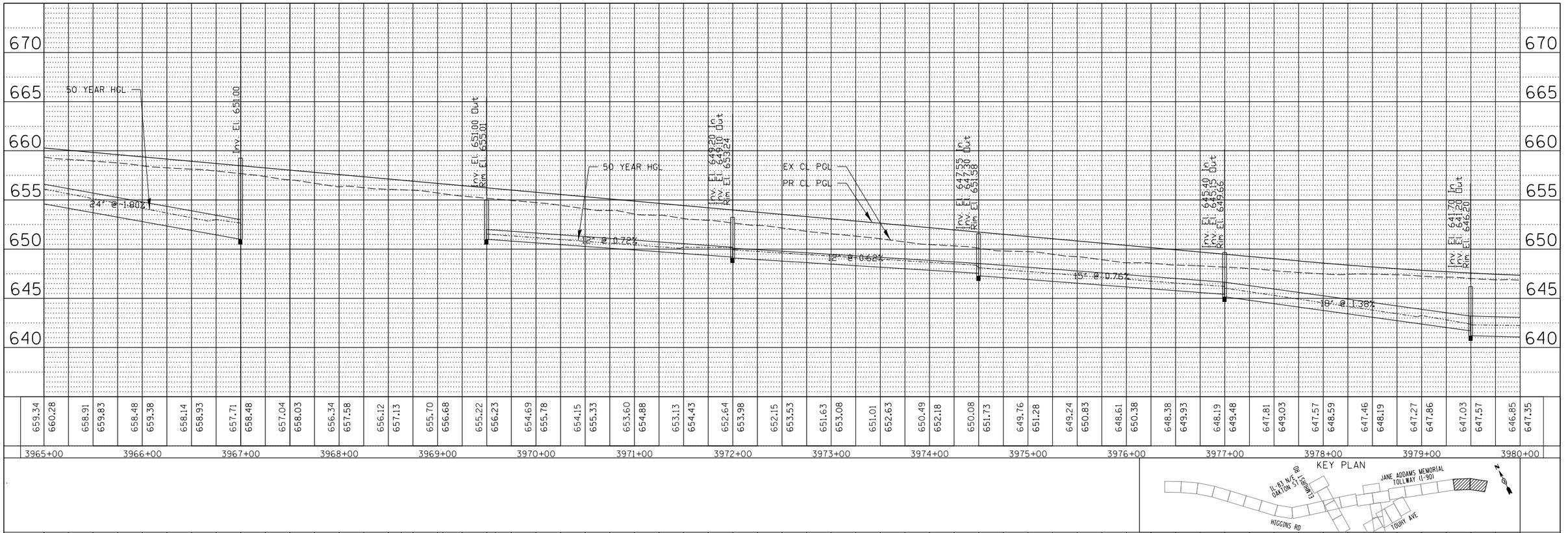
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	

NOTE BOOK
NO.____

BY	DATE



KEY PLAN

PROFILE

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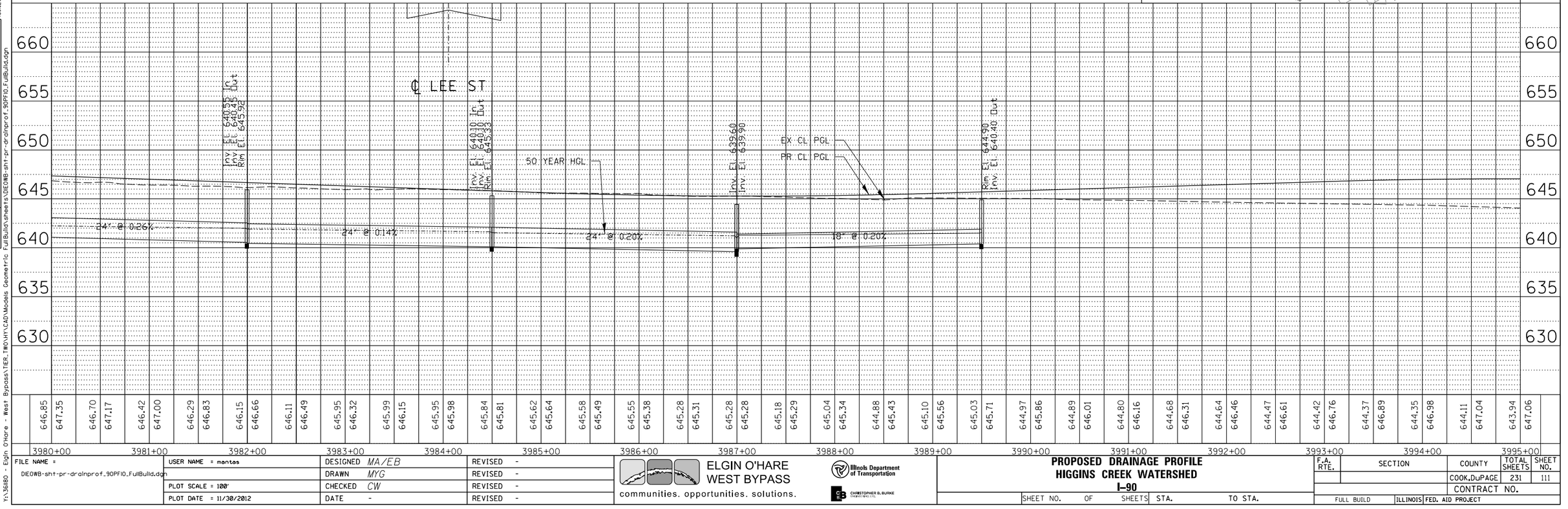
STRUCTURE NOTATNS CHKD	

NOTE BOOK
NO.____

BY	DATE



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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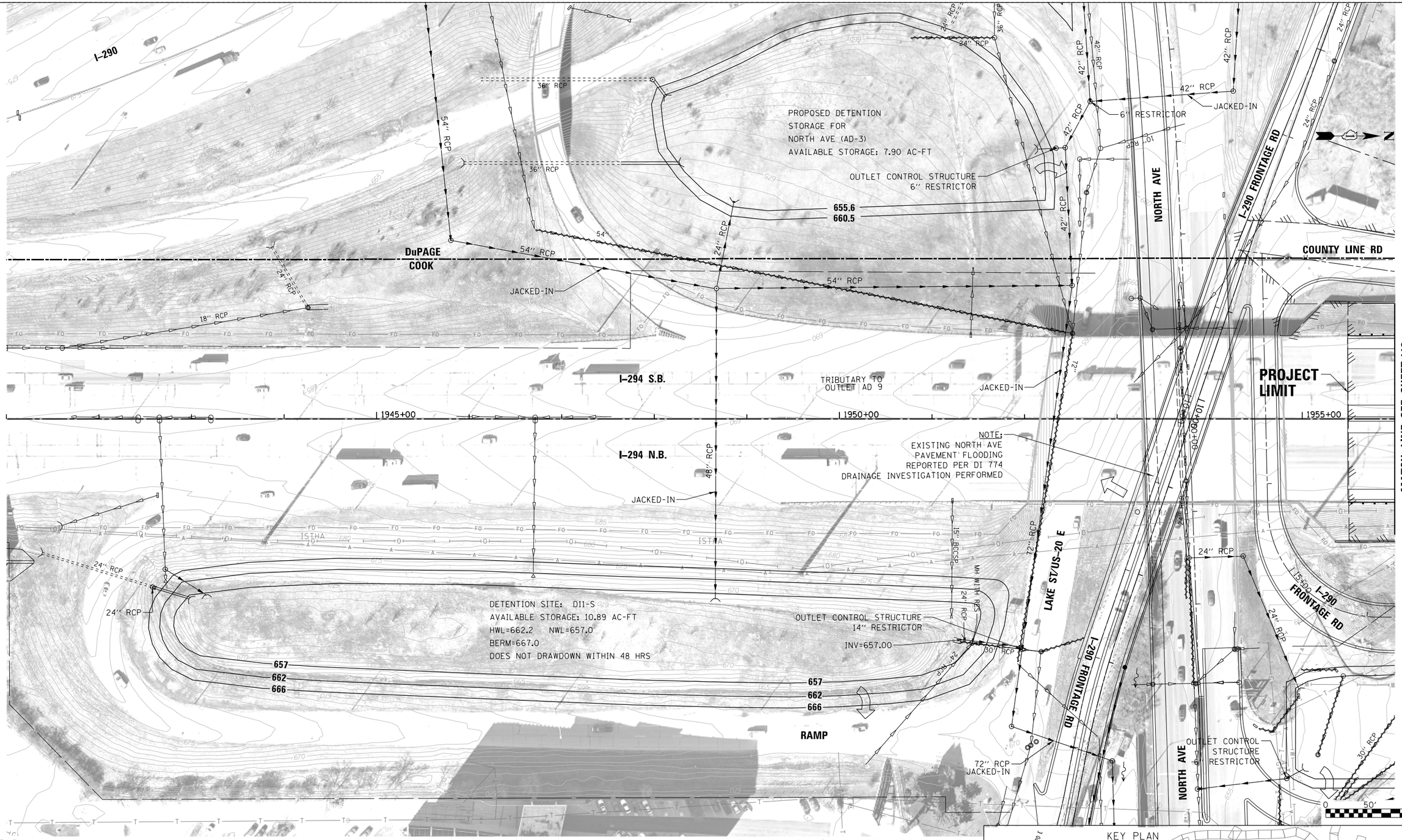
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
HIGGINS CREEK WATERSHED
I-90

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	111
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_90PF10_FullBuild.dgn 10:11:20 AM



MATCH LINE SEE SHEET 113

MATCH LINE SEE SHEET 229

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

FILE NAME = DIEOWB-sht-pr-drain-TRI2_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
I-294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	112
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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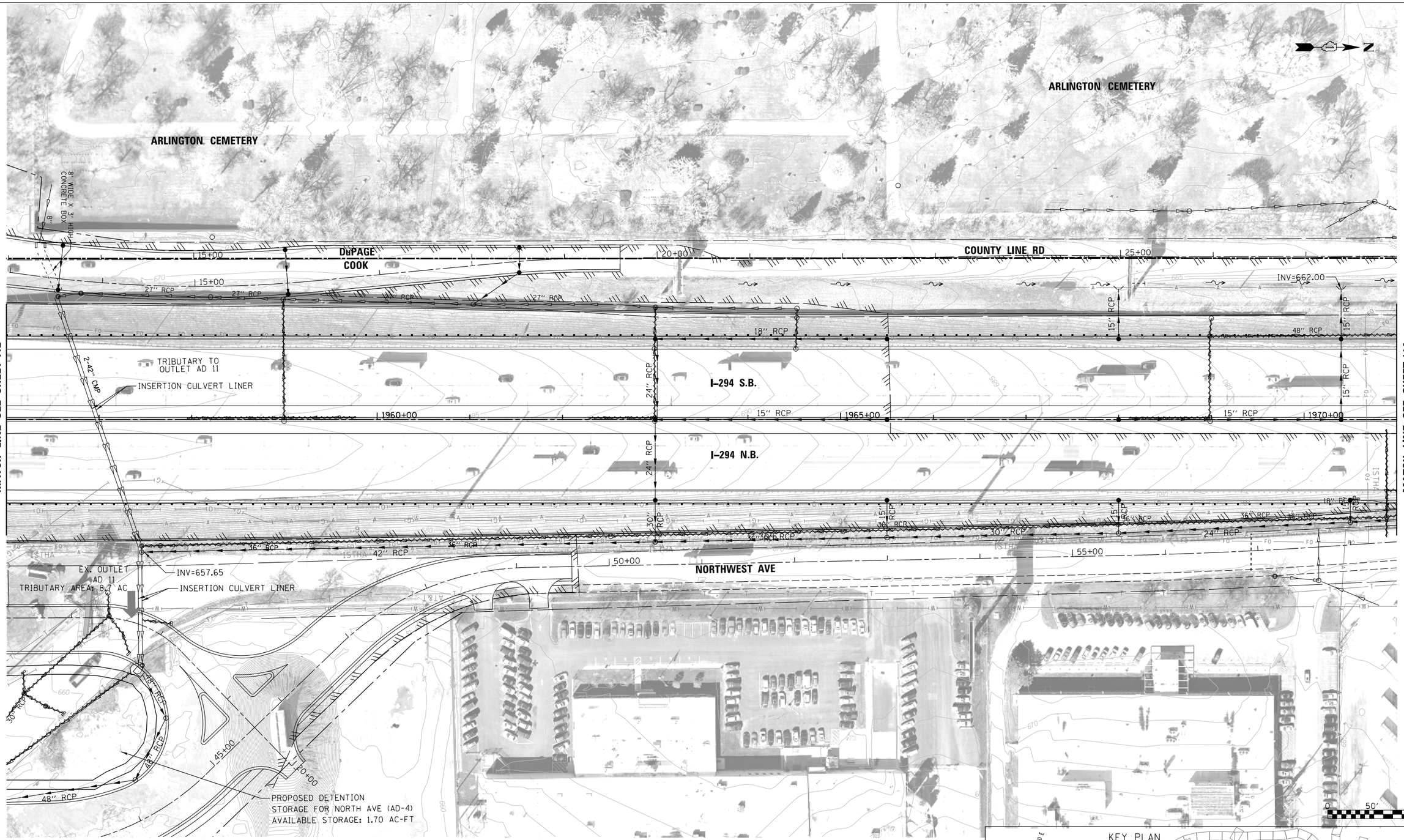


LEGEND:

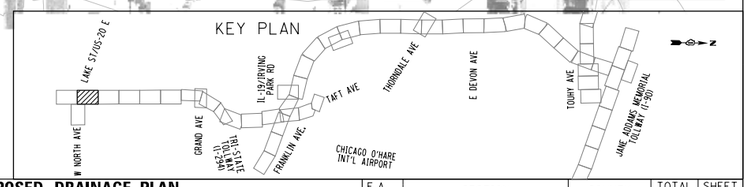
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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DIEOWB-sht-pr-drain-TRI3_FullBuild.dgn		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
I-294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	113
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-TRI3_FullBuild.dgn
10:2:49 AM

ARLINGTON CEMETERY RESERVOIR

12' X 4' BOX CULVERT

24" RCP

84"

84"T

30+00

DuPAGE

COOK

35+00

COUNTY LINE RD

40+00

ISTHA

INV=658.00

INV=(651.38)

30" RCP

48" RCP

24" RCP

TRIBUTARY TO OUTLET AD 11

15" RCP

I–294 2
D.A. = 383.0 Ac

9' X 6' BOX CULVERT

TRIBUTARY TO OUTLET AD 3

I–294 S.B.

1995+00

2000+00

I–294 N.B.

MATCH LINE SEE SHEET 113

MATCH LINE SEE SHEET 115

18" RCP

60+00

65+00

NORTHWEST AVE

70+00

INV=651.50

INV=651.25

BOTTOM=(650.39)

60" RCP

EX. OUTLET AD 3
TRIBUTARY AREA: 383.0 AC

OUTLETS TO RAILROAD RESERVOIR

PIPE SYSTEM TO BE UPSIZED TO SERVE AS STORAGE TO COMPENSATE FOR AN INCREASE IN IMPERVIOUS AREA

GROUND DATA OMITTED

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN	○	●
INLET/SCUPPER	▫	▪
MANHOLE	⊙	⊙
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

LAKE STREET-20 E

W NORTH AVE

GRAND AVE

IL-19/IRVING PARK RD

TRI-STATE TOLLWAY (I-294)

FRANKLIN AVE.

MET AVE

THORNDALE AVE

E DEVON AVE

CHICAGO O'HARE INT'L AIRPORT

TOUHY AVE

JANE ADDAMS MEMORIAL TOLLWAY (I-90)

FILE NAME = DIEOWB-sht-pr-drain-TRI4_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
I–294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	114
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-TRI4_FullBuild.dgn
10:30:50 AM

ADDISON CREEK WATERSHED

ADDISON CREEK WATERSHED

DuPAGE
COOK

COUNTY LINE RD

45+00 | 110+00 | 50+00 | 250+00 | 55+00 | 255+00

INV=658.20

84" | 84" | 84"

24" RCP | 18" BCCSP | 12" RCP | 12" RCP | 12" RCP | 24" RCP (MIN.) | 12" RCP

29"x45" RCHEP | 29"x45" RCHEP

ISTHA | ISTHA

MATCH LINE SEE SHEET 114

MATCH LINE SEE SHEET 116

TRIBUTARY TO OUTLET AD 3

TRIBUTARY TO OUTLET AD 4

I-294 S.B.

I-294 N.B.

2005+00 | 2010+00 | 2015+00

15" RCP | 15" RCP | 15" RCP | 15" RCP | 15" RCP | 15" RCP

24" RCP | 24" RCP | 24" RCP | 24" RCP | 24" RCP | 24" RCP | 48" RCP | 48" RCP

18" RCP | 24" RCP | 24" RCP

NORTHWEST AVE | 80+00

75+00 | 85+00

12" RCP | 12" RCP | 12" RCP | 12" RCP | 12" RCP | 12" RCP | 15" RCP

CONSTRUCTED GROUND (EXISTING)

GROUND (EXISTING)

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

LAKE ST/US-20 E | IL-19/IRVING PARK RD | THORNDALE AVE | E DEVON AVE | TOLL WAY AVE | JANE ADDAMS MEMORIAL TOLLWAY (I-90) | W NORTH AVE | GRAND AVE | TRI-STATE TOLLWAY (I-294) | FRANKLIN AVE | I-90 EXPY | CHICAGO O'HARE INT'L AIRPORT

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
I-294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	115
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-TRI5_FullBuild.dgn
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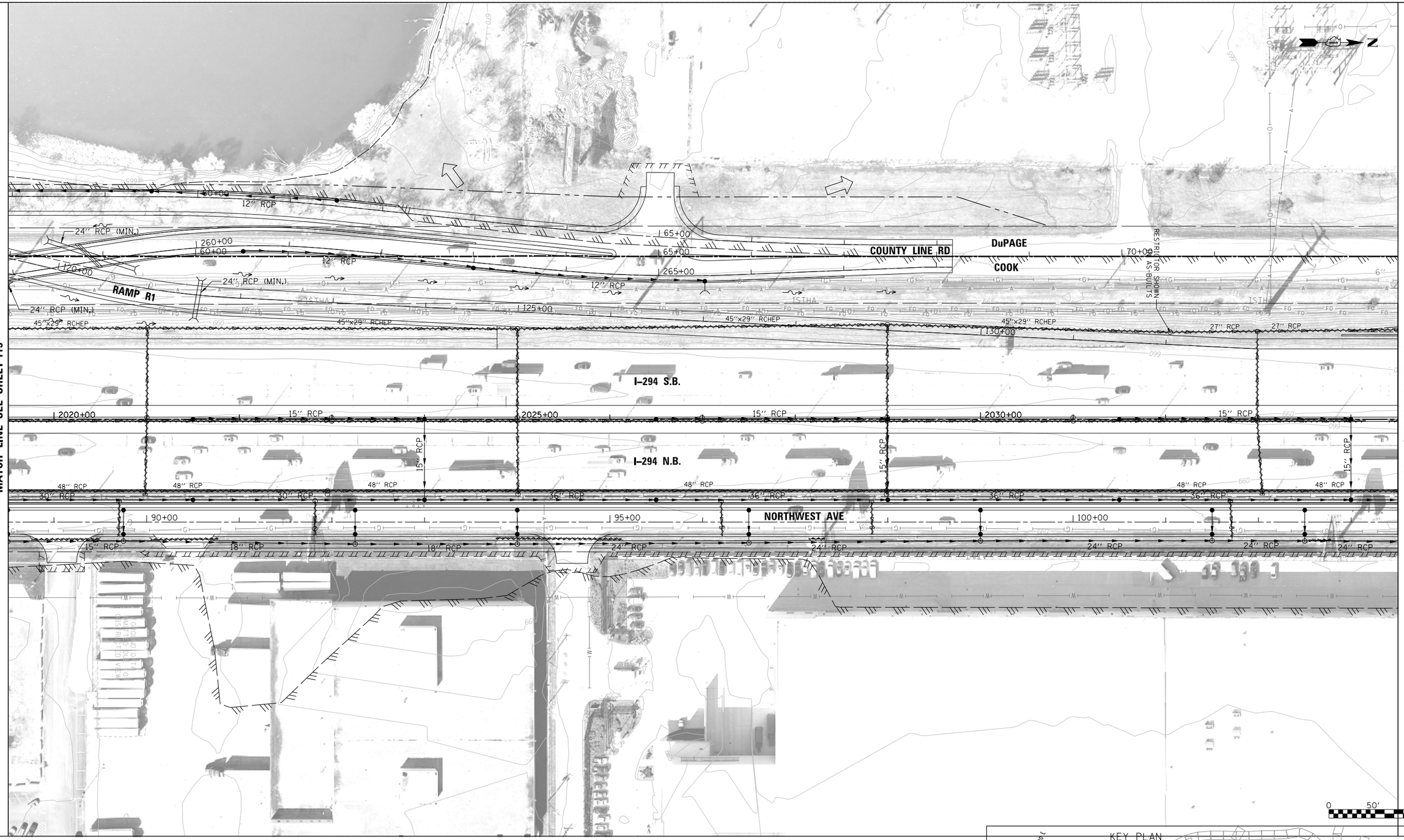
MATCH LINE SEE SHEET 115

MATCH LINE SEE SHEET 117



LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		7 7 7 7 7
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

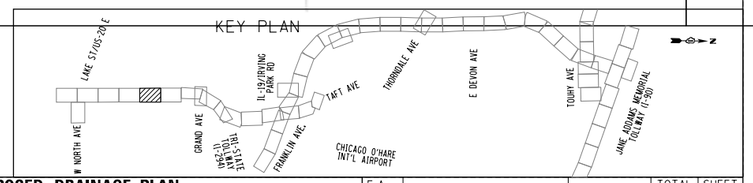
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
I-294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	116
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-TRI6_FullBuild.dgn
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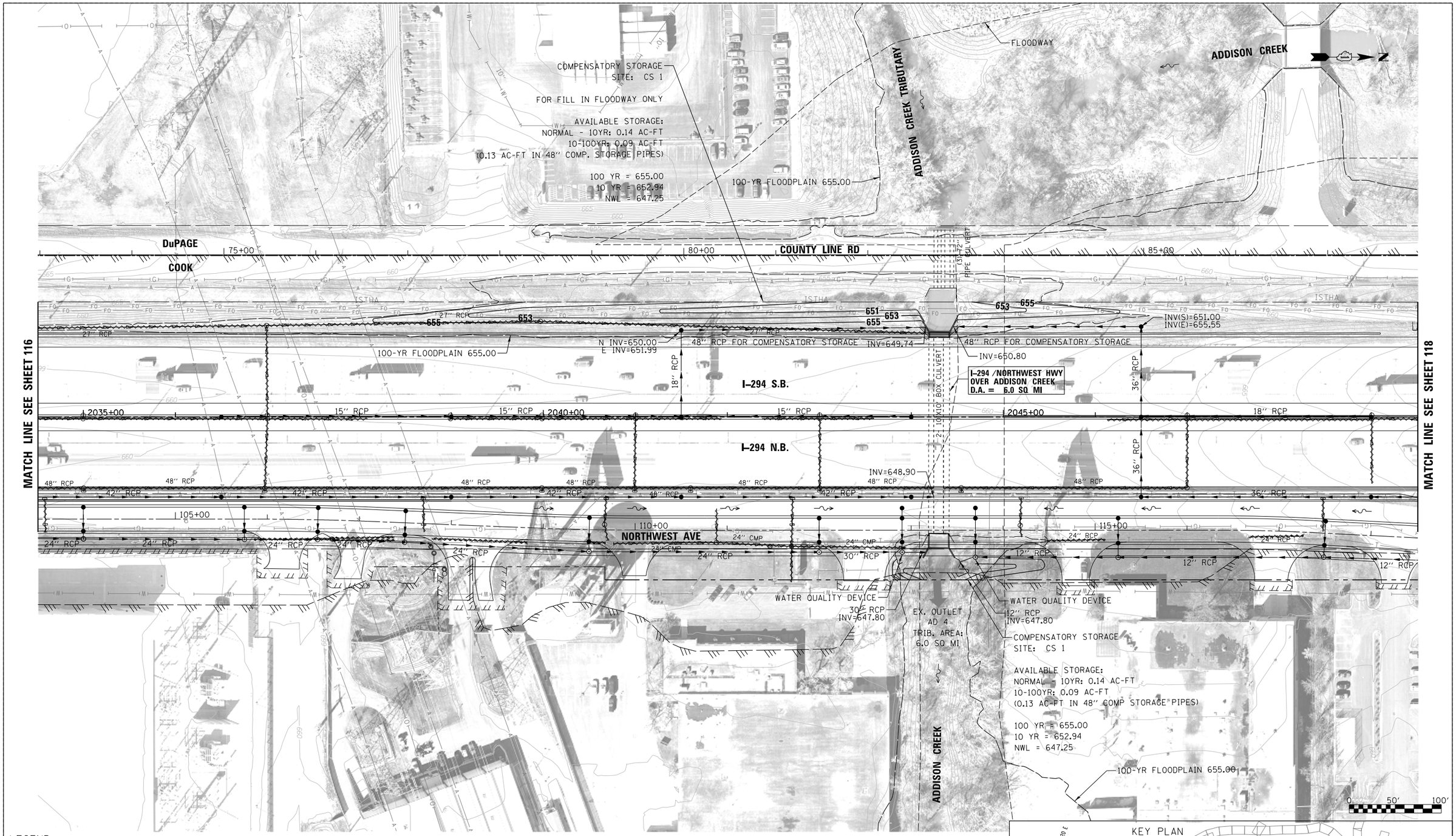


MATCH LINE SEE SHEET 116

MATCH LINE SEE SHEET 118

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		T T T T T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

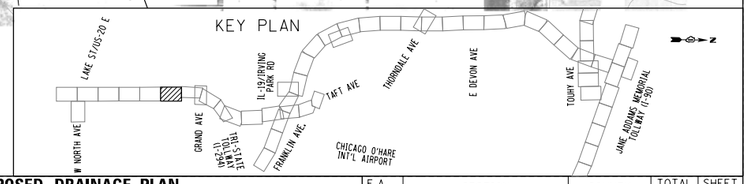
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
I-294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	117
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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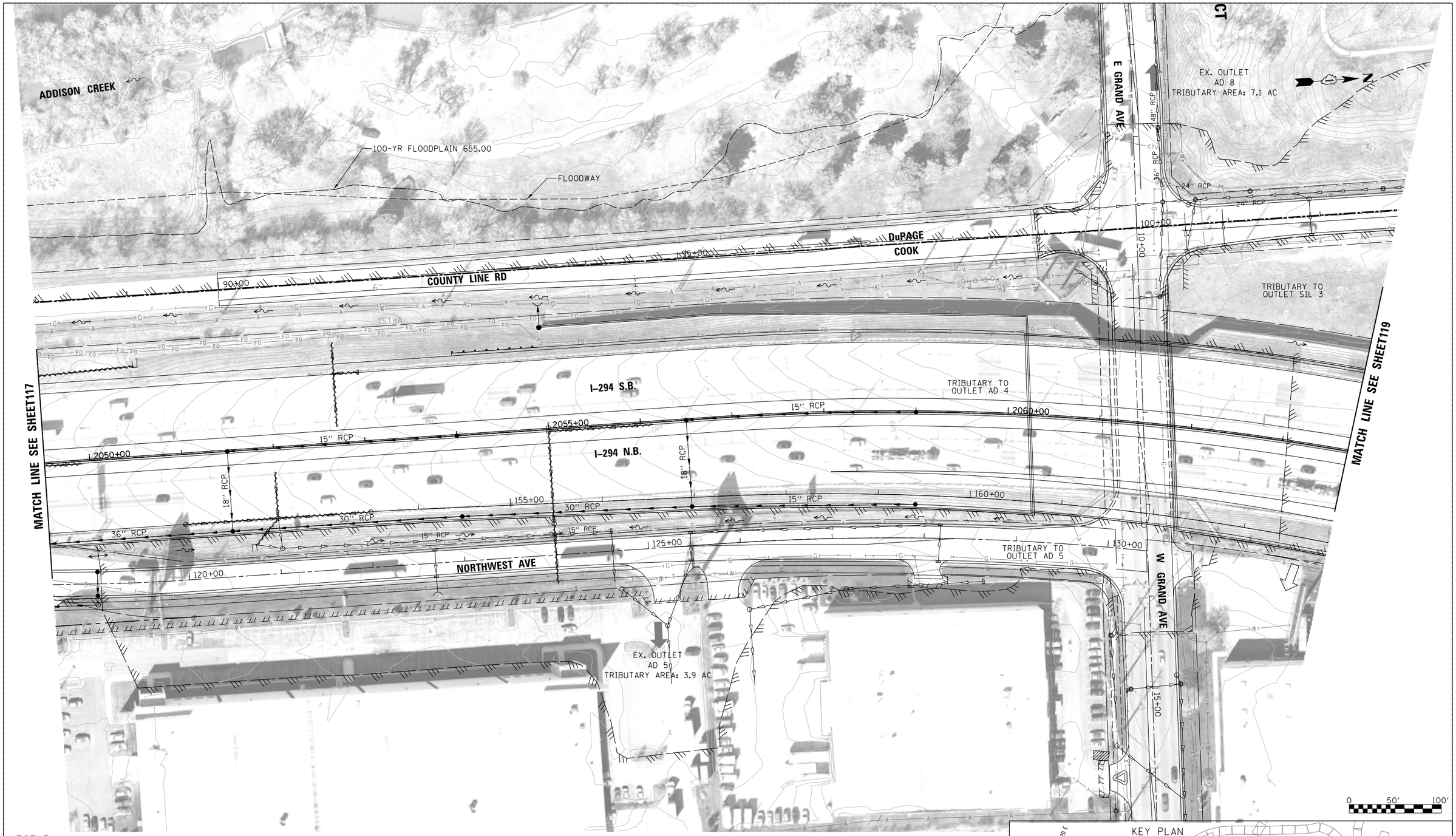


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		TTTTTTTTTT
STORM SEWER REMOVAL		

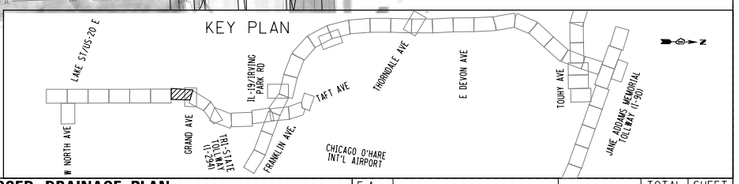
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
I-294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	118
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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10:35:54 AM

SEE SHEET 230

ADDISON CREEK WATERSHED

SILVER CREEK WATERSHED

DuPAGE
COOK

S COUNTY LINE/MT PROSPECT RD

PROJECT LIMIT

UNION PACIFIC R.R.

I–294 S.B.

I–294 N.B.

RAMP S1

RAMP S2

GARNET DR

MATCH LINE SEE SHEET118

MATCH LINE SEE SHEET 120

165+00 170+00 175+00 2065+00 2070+00 2075+00

24" RCP 18" RCP 30" RCP 42" RCP 48" RCP 15" RCP 24" CMP

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

LAKE ST/US-20 E · W NORTH AVE · GRAND AVE · IL-19/IRVING PARK RD · TRI-STATE TOLLWAY (I-294) · FRANKLIN AVE · TAFT AVE · THORNDALE AVE · E DEVON AVE · TOUHY AVE · JANE ADDAMS MEMORIAL TOLLWAY (I-90) · CHICAGO O'HARE INT'L AIRPORT

FILE NAME = DIEOWB-sht-pr-drain-TRI9_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED / SILVER CREEK WATERSHED
I–294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	119
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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10:40:08 AM

SEE SHEET 126

MATCH LINE SEE SHEET119

I–294 S.B.

I–294 N.B.

PROJECT LIMIT

RAMP S1

RAMP S2

EX OUTLET SIL 3
TRIB ARCA: 18.8 AC

DETENTION SITE: D10-S
AVAILABLE DETENTION: 18.50 AC-FT
HWL=646.50 NWL=641.00
BERM=649.00
DOES NOT DRAWDOWN WITHIN 48 HRS

INV=641.00
641
646
649

TRIBUTARY TO OUTLET SIL 7

TRIBUTARY TO OUTLET SIL 3

TRIBUTARY TO OUTLET SIL 6

EX. OUTLET SIL 6
TRIBUTARY AREA: 4.5 AC

RESTRICTOR SHOWN IN RECORD DRAWINGS

UNION PACIFIC R.R.

ADDISON CREEK WATERSHED

SILVER CREEK WATERSHED

RHODES AVE

24" RCP
30" RCP
15" RCP
15" BCCSP
18" RCP
18" BCCSP
36" RCP
42" RCP

I 80+00
I 85+00
I 180+00
I 185+00
I 190+00
I 2080+00
I 2085+00
I 2090+00

0 50' 100'

LEGEND:

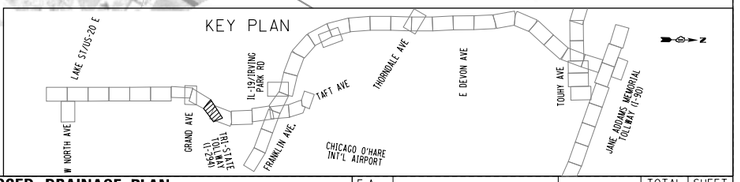
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	I 430+00	I 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		PPPPPPPPP
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL
- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
I–294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	120
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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10:422 AM

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
POINTS CHECKED
BAR. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CADD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_294PFI_FullBuild.dgn 10:44:28 AM

695
690
685
680
675
670
665

684.80 684.45 684.18 684.03 684.08 684.26 684.57 685.04 685.64 686.16 686.81 687.51 688.13 688.75 689.42 690.09 690.69 691.30 691.99 692.61 693.21 693.87 694.63 667.97 670.89 657.15 656.56 663.66 697.70 697.91 698.19 697.99 698.37

684.75 684.40 684.18 684.08 684.12 684.30 684.63 685.08 685.64 686.17 686.77 687.47 688.11 688.78 689.46 690.09 690.70 691.38 692.02 692.64 693.28 693.94 694.60 666.92 669.75 657.42 656.68 670.75 697.74 698.00 698.19 698.18 698.37

1941+00 1942+00 1943+00 1944+00 1945+00 1946+00 1947+00 1948+00 1949+00 1950+00 1951+00 1952+00 1953+00 1954+00 1955+00 1956+00

EX NB PGL
EX SB PGL
℄ LAKE ST
℄ CONNECTER A
℄ NORTH AVE (IL 64)

700
695
690
685
680
675
670
665
660

Inv. El. 691.59
Dup In
Inv. El. 657.85

PR NB PGL
PR SB PGL
EX SB PGL
EX NB PGL

Rim El. 686.66
Inv El. 658.05 Out
Inv El. 658.35 In

Rim El. 681.73
Inv El. 658.75 Out
Inv El. 658.80 In

Rim El. 676.78
Inv El. 658.95 Out
Inv El. 660.45 In

50 YEAR HGL

42" @ 0.30%
36" @ 0.14%
30" @ 0.18%
24" @ 0.20%

697.99 698.37 698.08 698.48 698.18 698.51 698.04 698.46 697.85 698.33 697.64 698.18 697.42 697.84 697.10 697.48 696.70 697.04 696.20 696.52 695.57 695.92 694.88 695.24 694.11 694.48 693.26 693.65 692.35 692.73 691.33 691.75 690.35 690.77 689.35 689.78 688.34 688.79 687.42 687.80 686.44 686.81 685.51 685.82 684.38 684.84 683.40 683.85 682.46 682.86 681.52 681.87 680.52 680.88 679.55 679.89 678.56 678.91 677.45 677.92 676.51 676.93

698.18 698.37 698.25 698.48 698.29 698.51 698.12 698.46 698.00 698.33 697.81 698.12 697.48 697.84 697.14 697.48 696.70 697.03 696.16 696.51 695.56 695.91 694.92 695.24 694.08 694.48 693.21 693.64 692.28 692.73 691.29 691.75 690.32 690.76 689.28 689.77 688.34 688.79 687.39 687.80 686.38 686.81 685.32 685.82 684.33 684.83 683.32 683.85 682.32 682.86 681.33 681.87 680.36 680.88 679.31 679.89 678.36 678.90 677.35 677.92 676.38 676.93

1956+00 1957+00 1958+00 1959+00 1960+00 1961+00 1962+00 1963+00 1964+00 1965+00 1966+00 1967+00 1968+00 1969+00 1970+00 1971+00

KEY PLAN

LAKE ST/US-20 E
IL 19/IRVING PARK RD
IRVING PARK RD
THORNDALE AVE
E DEVON AVE
TOUHY AVE
JANE ADDAMS MEMORIAL TOLLWAY (I-90)
CHICAGO O'HARE INT'L AIRPORT

FILE NAME = DIEOWB-sht-pr-drainprof_294PFI_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

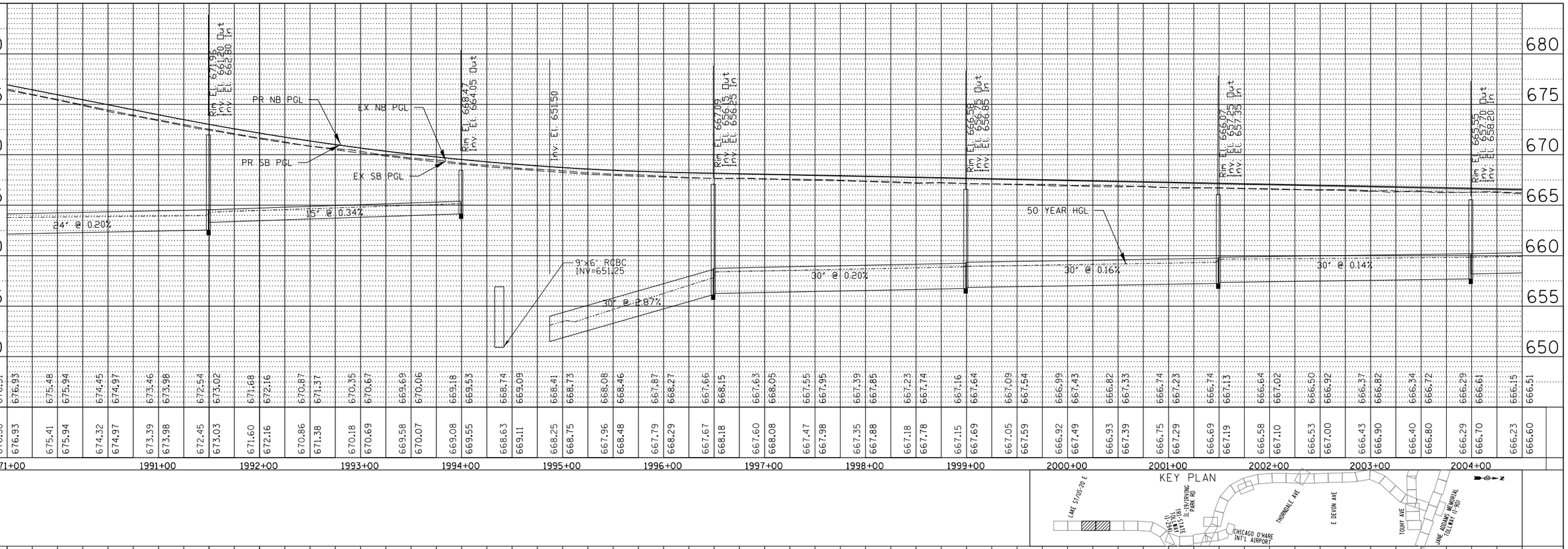
PROPOSED DRAINAGE PROFILE
ADDISON RIVER WATERSHED
I-294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	121
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		



KEY PLAN

PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
DESIGN CHECKED		
S.M. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		

FILE NAME = DIEOWB-sht-pr-drainprof_294PF2_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PROFILE
ADDISON RIVER WATERSHED
I-294

SHEET NO. OF SHEETS STA. TO STA.

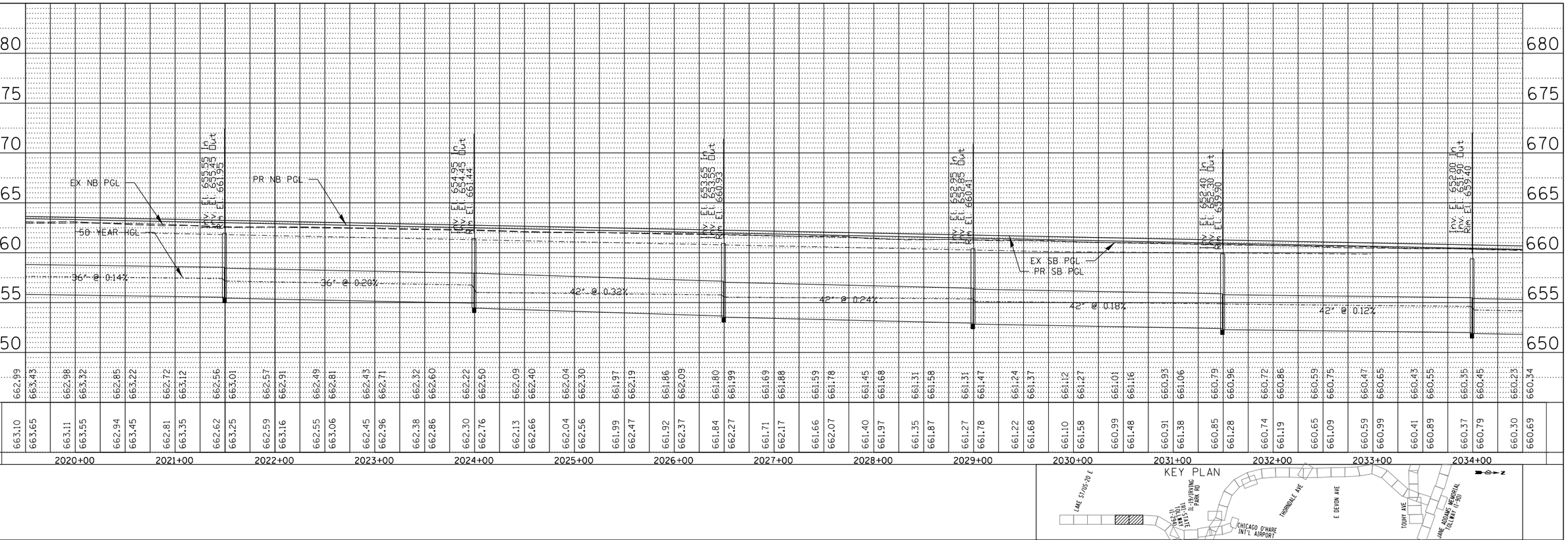
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	122
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_294PF2_FullBuild.dgn 10:14:34 AM

PLAN

BY	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	

NOTE BOOK
NO.

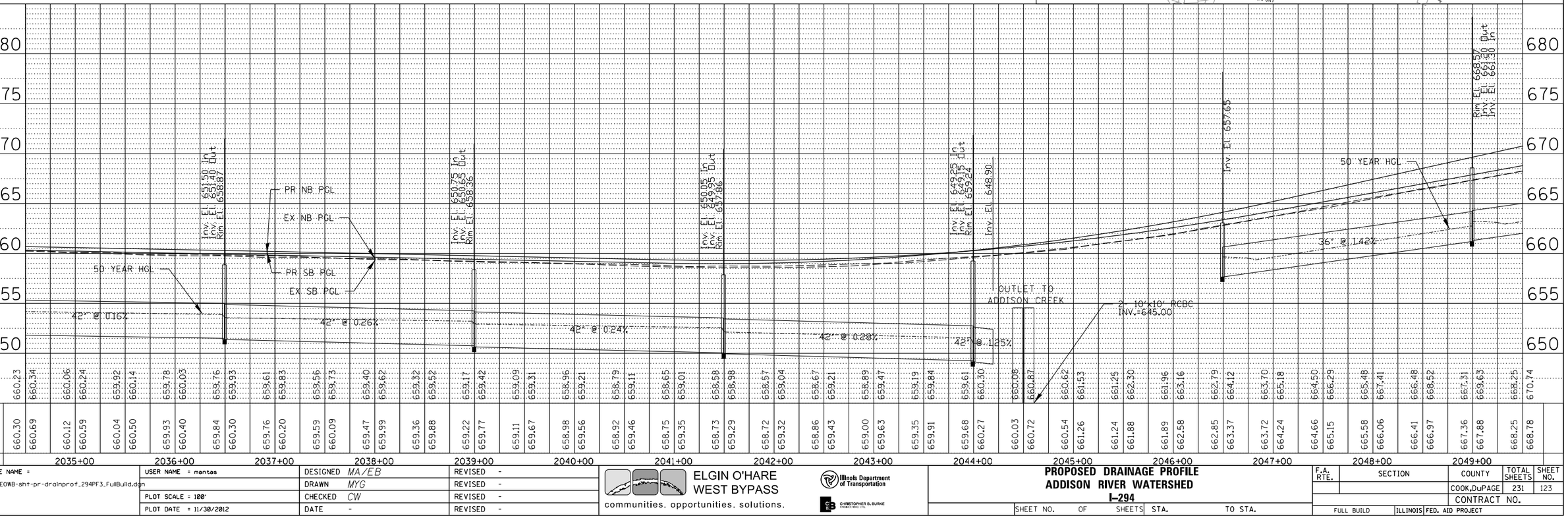


KEY PLAN

PROFILE

SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
R/W NOTED	
STRUCTURE NOTATNS CHKD	

NOTE BOOK
NO.



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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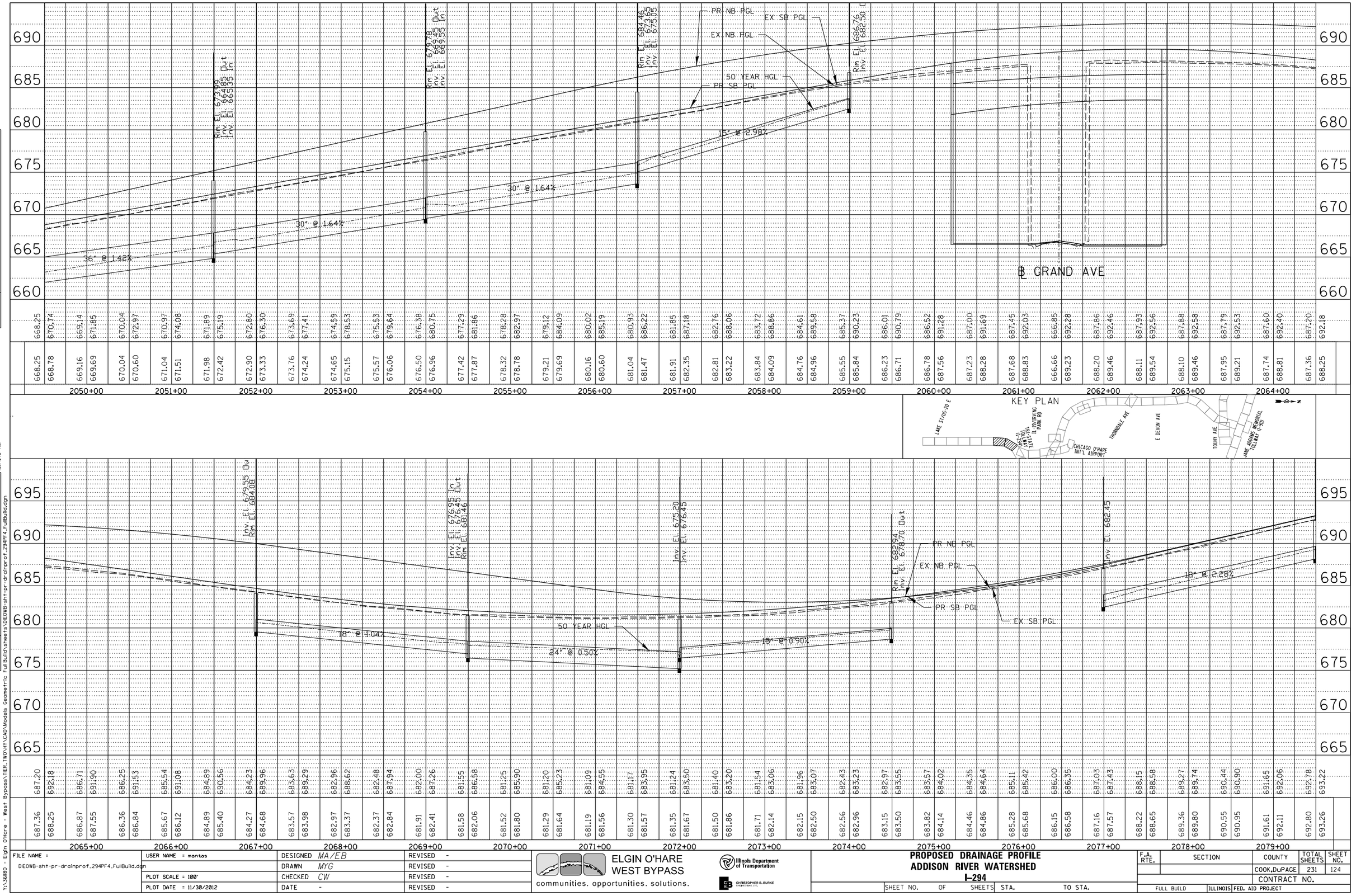
Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON RIVER WATERSHED
I–294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	123
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		



KEY PLAN

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
SUM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_294PF4_FullBuild.dgn 10:44:45 AM

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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON RIVER WATERSHED
I-294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	124
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
S.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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℄ UP RR

℄ RAMP S2

PR NB PGL

EX NB PGL

PR SB PGL

EX SB PGL

50 YEAR HGL

5' @ 1.90%

Rim El. 692.69
Inv El. 688.40 Out
Inv El. 688.15 In

Rim El. 697.44
Inv El. 693.15 Out

3-24" RCP
INV=649.33'

KEY PLAN

LAKE ST/US-20 E
IL 19/IRVING PARK RD
THORNDALE AVE
E DEVON AVE
TOUHY AVE
CHICAGO O'HARE INT'L AIRPORT
JANE ADDAMS MEMORIAL TOLLWAY (I-90)

FILE NAME = DIEOWB-sht-pr-drainprof_294PF5_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON RIVER WATERSHED
I–294

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	125
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		
DRAINAGE BOUNDARY		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		

SEE SHEET120

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

FILE NAME =	USER NAME = mantas	DESIGNED MA	REVISED -
DIEOWB-sht-pr-drain-WBYI_FullBuild.dgn		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	126
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBYI_FullBuild.dgn
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UNION PACIFIC R.R

UNION PACIFIC R.R.

N

MATCH LINE SEE SHEET 126

MATCH LINE SEE SHEET 128

WEST BYPASS S.B.

WEST BYPASS N.B.

100+00

105+00

110+00

15" RCP

15" RCP

15" RCP

15" RCP

18" RCP

24" RCP(D)

TRIBUTARY TO OUTLET SIL 7

POWELL ST

320+00

325+00

330+00

9' PVC

36" RCP

36" RCP

24" RCP(D)

60" RCP

60" RCP

PROP. OUTLET
SIL 4
TRIBUTARY AREA: 164 AC

SPLIT FLOW

48"

66" RCP

24" RCP

TRIBUTARY TO OUTLET SIL 4

24" RCP (L)

66" RCP

ADDISON AVE

NOTE:
DRAINAGE INVESTIGATION PERFORMED

50' 100'

LEGEND:

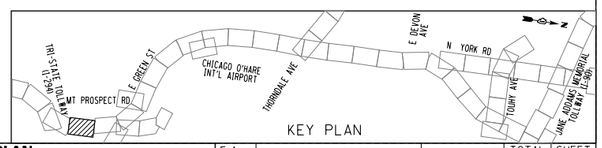
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



KEY PLAN

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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	127
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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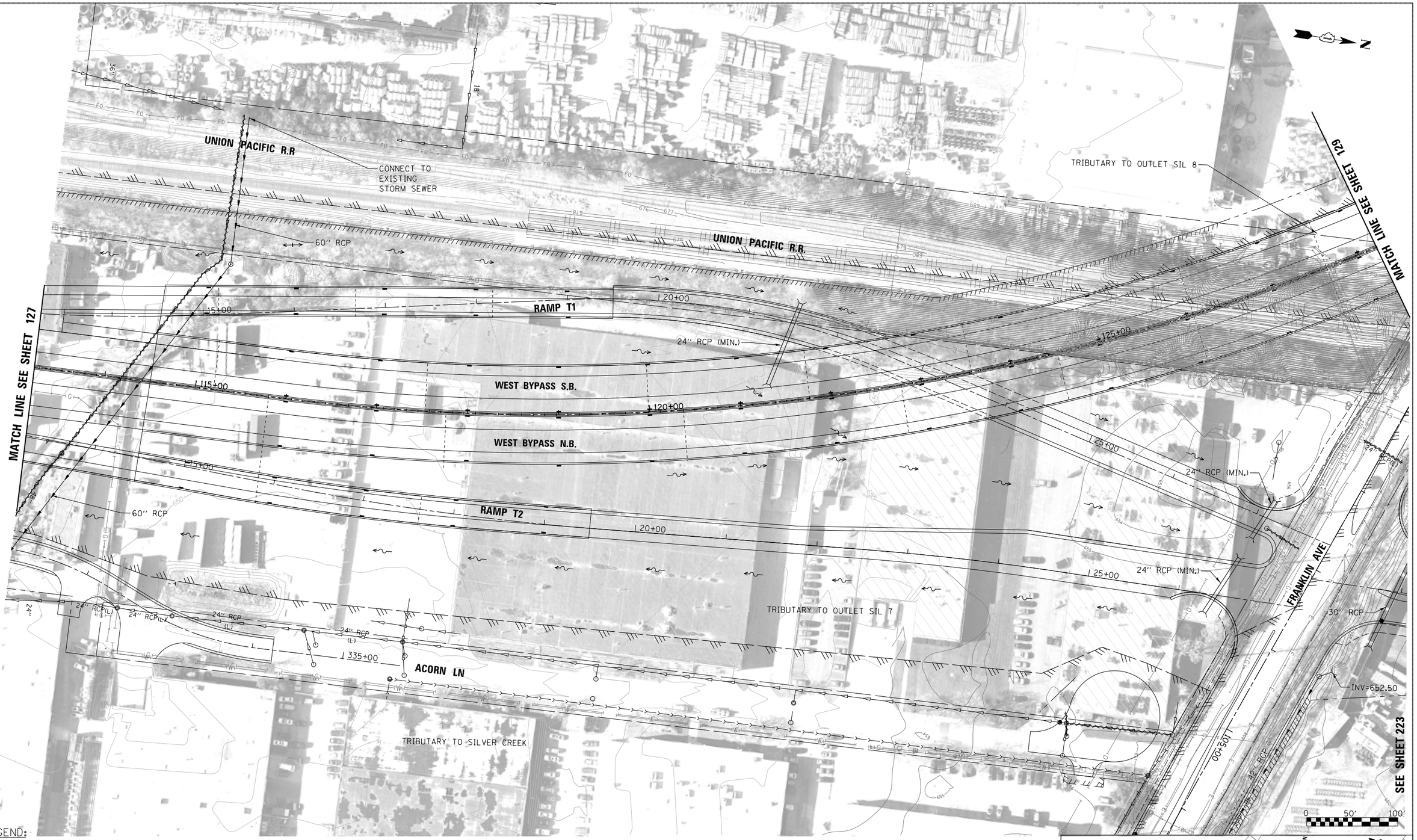

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DEOWB-sht-pr-drain-WBY3_FullBuild.dgn
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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	128
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

MATCH LINE SEE SHEET 128

SEE SHEET 220

PODLIN DR

DOMENTIC CT

E GREEN ST

FRANKLIN AVE

UNION PACIFIC R.R.

100+00

130+00

135+00

140+00

95+00

90+00

661

658

18" RCP

15" RCP

OUTLET CONTROL
STRUCTURE
INV=657.00
12.5" RESTRICTOR

TRIBUTARY TO OUTLET SIL 8

INV=660.25

INV=661.00

DOWNSPOUT

WEST BYPASS S.B.

WEST BYPASS N.B.

MATCH LINE SEE SHEET 130

DETENTION SITE: D10-N
AVAILABLE DETENTION: 7.75 AC-FT
HWL=660.0 NWL=657.0
BERM=661.0 GRAVEL LAYER=658.0
DRAWDOWN WITHIN 48 HRS

SEE SHEET 223

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

TRI-STATE TOLLWAY (I-294)
W PROSPECT RD
S GREEN ST
CHICAGO O'HARE INT'L AIRPORT
THORNDALE AVE
E DEVON AVE
N YORK RD
TOUHY AVE
JANE ADDAMS MEMORIAL TOLLWAY (I-90)

FILE NAME = DIEOWB-sht-pr-drain-WBY4.FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	129
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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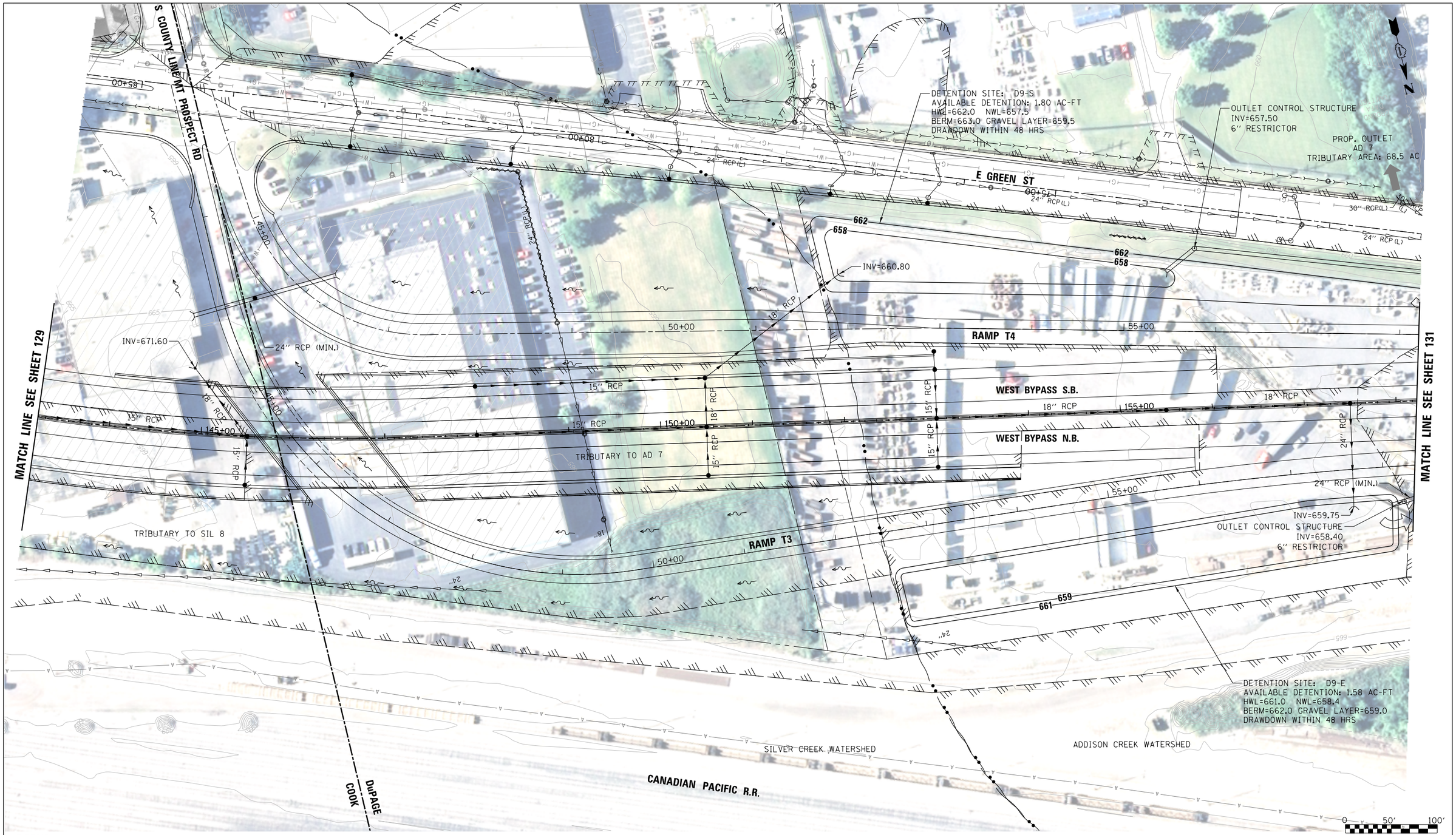


LEGEND:

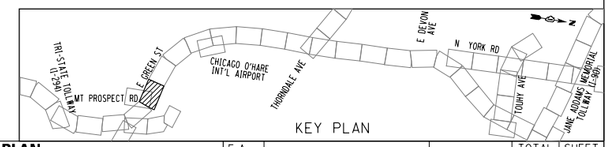
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED / ADDISON CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	130
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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E GREEN ST

WEST BYPASS S.B.

WEST BYPASS N.B.

MATCH LINE SEE SHEET 130

MATCH LINE SEE SHEET 132

INV=657.40

INV=657.00

42" X 30" RCP

30" RCP

24" RCP

30" RCP

18" RCP

15" RCP

18" RCP

18" RCP

24" RCP

24" RCP (MIN.)

INV=659.40

OUTLET CONTROL STRUCTURE
INV=658.20
6" RESTRICTOR

661

659

DETENTION SITE: D9-W
AVAILABLE DETENTION: 1.04 AC-FT
HWL=661.0 NWL=658.2
BERM=662.0 GRAVEL LAYER=659.0
DRAWDOWN WITHIN 48 HRS

TRIBUTARY TO OUTLET AD 7

TRIBUTARY TO OUTLET SIL 8

TRIBUTARY TO OUTLET AD 7

0 50' 100'

LEGEND:

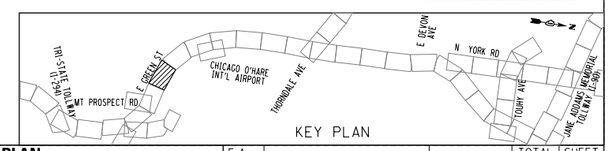
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



KEY PLAN

FILE NAME = DIEOWB-sht-pr-drain-WBY6_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	131
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TER_TWO\HYCAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBY6_FullBuild.dgn
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EVERGREEN ST

E GREEN ST

59+00

58+00

24" MINIMUM RCP

TRIBUTARY TO PUMP STATION

18" RCP

WEST BYPASS S.B.

175+00

24" RCP

24" RCP

180+00

30" RCP

15" RCP

WEST BYPASS N.B.

15" RCP

15" RCP

36" RCP

15" RCP

15" RCP

85+00

185+00

42" RCP

12" IRON

24" RCP

15" RCP

30" RCP

48" RCP

48" RCP

JACKED-IN

MATCH LINE SEE SHEET 131

MATCH LINE SEE SHEET 133

TRIBUTARY TO OUTLET AD 7

PROP. OUTLET BD 7
TRIBUTARY AREA 16.9 AC

CANADIAN PACIFIC R.R.

CANADIAN PACIFIC R.R.

UNION PACIFIC R.R.

RELOCATED IRVING PARK ROAD
BY OTHERS

00+00.11

N

0 50' 100'

LEGEND:

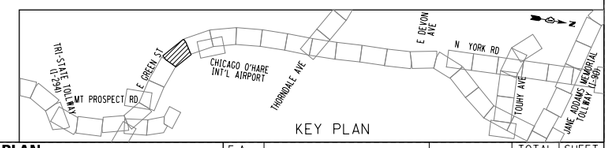
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

*CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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		DRAWN MYG	REVISED -	
	PLOT SCALE = 100'	CHECKED CW	REVISED -	
	PLOT DATE = 11/30/2012	DATE -	REVISED -	

ELGIN O'HARE WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	132
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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DRAINAGE PROPOSAL
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY
- CONSTRUCT A NEW PUMP STATION.

ADDISON CREEK WATERSHED

CANADIAN PACIFIC R.R.

UNION PACIFIC R.R.

ACCESS RAMP

24" CSP

18" CSP

MATCH LINE SEE SHEET 132

MATCH LINE SEE SHEET 134

TRIBUTARY TO PUMP STATION

WEST BYPASS S.B.

WEST BYPASS N.B.

RAMP U1

RAMP U2

INV=659.52

15" RCP

24" RCP

30" RCP

18" RCP

48" RCP

36" RCP

90+00

95+00

100+00

190+00

195+00

200+00

PUMP STATION
TRIBUTARY AREA =9.70 AC

INV=628.10

INV=658.10

INV=656.00

INV=656.50

JACKED-IN-PLACE

RELOCATED IRVING PARK ROAD
BY OTHERS

NOTE:
REFER TO GREEN STREET PUMP STATION HYDRAULIC REPORT FOR DESIGN DETAILS

DETENTION SITE: D8-S1
AVAILABLE DETENTION: 7.42 AC-FT
HWL=658.0 NWL=654.7
BERM=659.0 GRAVEL LAYER=655.2
W/PIPE UNDERDRAIN
DRAWDOWN WITHIN 48 HRS

PROP. OUTLET BD 8
TRIBUTARY AREA 1.2 AC

135+00

RELOCATED BENSENVILLE
DITCH BY OTHERS
TWIN 11' X 7' RCBC

210+00

140+00

150+00

INV=654.70

OUTLET CONTROL STRUCTURE
INV=654.70
6" RESTRICTOR

BACKFLOW
PREVENTION
DEVICE

PROP. OUTLET BD 5
TRIBUTARY AREA 51.1 AC

54" RCP

125+00

656
658
655
658
656
655
656
655

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

KEY PLAN

TRI-STATE TOLLWAY (I-294)
E GREEN ST
MT PROSPECT RD
CHICAGO O'HARE INT'L AIRPORT
THORNDALE AVE
TWIN
E DEVON AVE
N YORK RD
TOUHY AVE
JANE ADDAMS MEMORIAL TOLLWAY (I-90)

FILE NAME = DIEOWB-sht-pr-drain-WBY8_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

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CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED / BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	133
		CONTRACT NO.		
	FULL BUILD	ILLINOIS	FED. AID PROJECT	

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBY8_FullBuild.dgn
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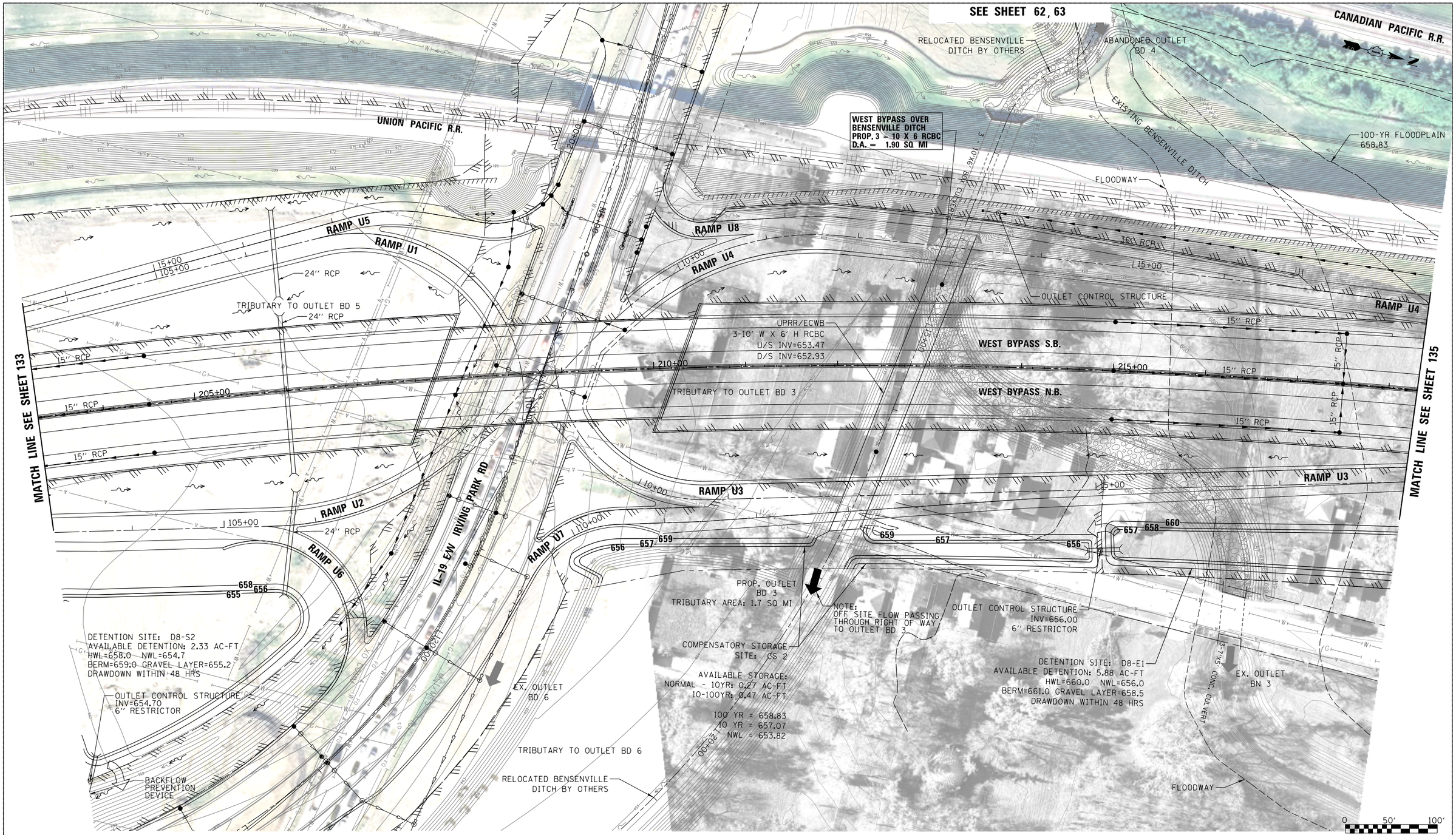


LEGEND:

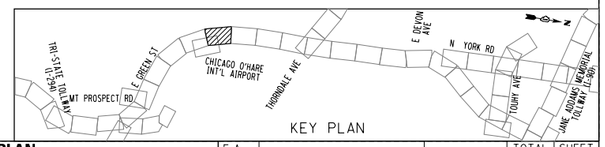
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	134
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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SEE SHEET 63, 64

N YORK ROAD | 225+00

CANADIAN PACIFIC R.R.

100-YR FLOODPLAIN
658.83

42" CAAP

UNION PACIFIC R.R.

36" RCP

42" CAAP

36" RCP

20+00

RAMP U4

25+00

36" RCP

WEST BYPASS S.B.

24" RCP

220+00

24" RCP

225+00

18" RCP

18" RCP

230+00

18" RCP

24" RCP

36" RCP

WEST BYPASS N.B.

25+00

RAMP U3

20+00

100-YR FLOODPLAIN
658.83

660

658

657

INV=657.30

DETENTION SITE: D8-E1
AVAILABLE DETENTION: 5.88 AC-FT
HWL=660.0 NWL=656.0
BERM=661.0 GRAVEL LAYER=658.5
DRAWDOWN WITHIN 48 HRS

MATCH LINE SEE SHEET 134

MATCH LINE SEE SHEET 136

OUTLET CONTROL STRUCTURE
INV=658.20
6" RESTRICTOR

135+00

130+00

FLOODWAY

0 50' 100'

LEGEND:

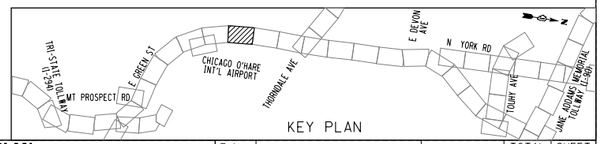
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



KEY PLAN

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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	135
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYV\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drain-WBY10_FullBuild.dgn
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LEGEND:

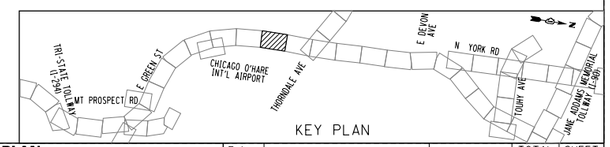
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



FILE NAME = DIEOWB-sht-pr-drain-WBYII_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	136
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYD\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBYII_FullBuild.dgn
10:19:10 AM

SEE SHEET 65, 66

N YORK RD

245+00

DETENTION SITE: D8-W2
AVAILABLE DETENTION: 2.96 AC-FT
HWL=662.8 NWL=659.0
BERM=663.8 GRAVEL LAYER=661.5
DRAWDOWN WITHIN 48 HRS

UNION PACIFIC R.R.

660 661 663

INV=661.20

24" RCP

24" RCP

661 663

18" RCP

235+00

RAMP U2

240+00

610+00

605+00

600+00

TRIBUTARY TO
OUTLET WL 25/26/27

WEST BYPASS S.B.

245+00

15" RCP

250+00

255+00

260+00

15" RCP

15" RCP

300+00

TRIBUTARY TO
OUTLET BD 3

WEST BYPASS N.B.

510+00

515+00

520+00

700+00

1250+00

ELGIN – O'HARE EXPRESSWAY – A

BENSENVILLE DITCH
WATERSHED

WILLOW CREEK
WATERSHED

0 50' 100'

MATCH LINE SEE SHEET 136

MATCH LINE SEE SHEET 138

LEGEND:

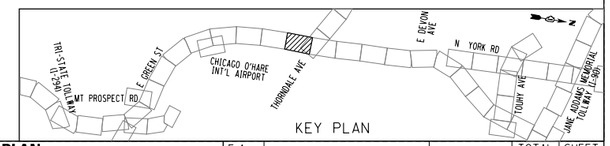
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



KEY PLAN

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
BENSENVILLE DITCH WATERSHED / WILLOW CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	137
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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SEE SHEET 66, 67

MATCH LINE SEE SHEET 137

MATCH LINE SEE SHEET 139

CANADIAN PACIFIC R.R.

UNION PACIFIC R.R.

ELGIN – O'HARE EXPRESSWAY – A

RAMP P1

RAMP P6

RAMP P7

RAMP Q3

RAMP P8

WEST BYPASS S.B.

WEST BYPASS N.B.

24" RCP (MIN.)

INV=660.90

INV=667.65

INV=667.15

INV=675.50

INV. = 680.40

30" RCP

18" RCP

15" RCP

815+00

805+00

795+00

615+00

620+00

625+00

710+00

715+00

640+00

270+00

275+00

305+00

310+00

525+00

530+00

535+00

820+00

825+00

830+00

135+00

0 50' 100'

LEGEND:

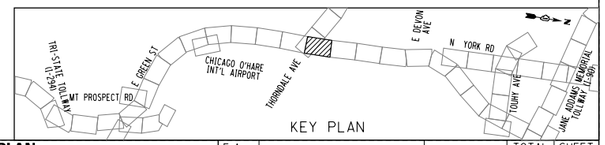
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



KEY PLAN

FILE NAME = DIEOWB-sht-pr-drain-WBYI3_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS

communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	138
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBYI3_FullBuild.dgn
10:19:38 AM

SEE SHEET 67, 68

MATCH LINE SEE SHEET 138

MATCH LINE SEE SHEET 140

N YORK RD

CANADIAN PACIFIC R.R.

100-YR FLOODPLAIN 656.53

UNION PACIFIC R.R.

RAMP P5

RAMP Q1

RAMP P1

RAMP P8

RAMP Q4

WEST BYPASS S.B.

WEST BYPASS N.B.

160+00

165+00

170+00

515+00

630+00

140+00

720+00

725+00

280+00

285+00

290+00

835+00

840+00

845+00

405+00

INV=659.50

15" RCP

18" RCP

30" RCP (MIN.)

24" RCP

INV=654.35

INV.=
648.90

12' X 8' RCBC

12'X8' RCBC

CONNECT TO
UPSTREAM END O'HARE
FEEDER CULVERT #1
INV=648.70

PROP. OUTLET
WL 25
TRIBUTARY AREA: 2.0 SQ MI

WILLOW CREEK
REALIGNMENT BY OTHERS

145+00

757+00

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

TRI-STATE TOLLWAY (I-294)

W PROSPECT RD

GREEK ST

CHICAGO O'HARE INT'L AIRPORT

THORNDALE AVE

E DEVON AVE

N YORK RD

TOUHY AVE

JANE ADDAMS MEMORIAL TOLLWAY (I-90)

FILE NAME = DIEOWB-sht-pr-drain-WBY14_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	139
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBY14_FullBuild.dgn
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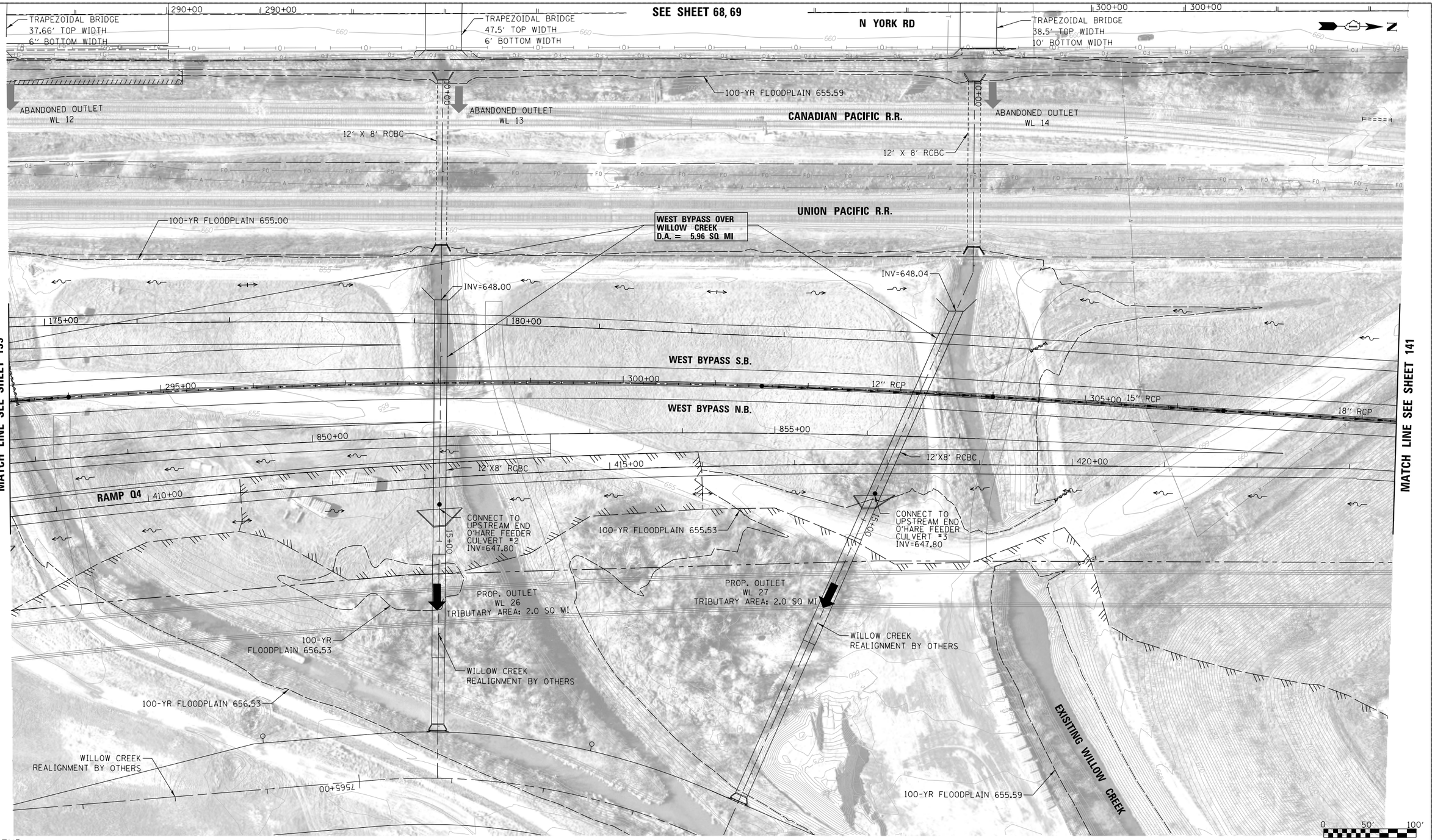


LEGEND:

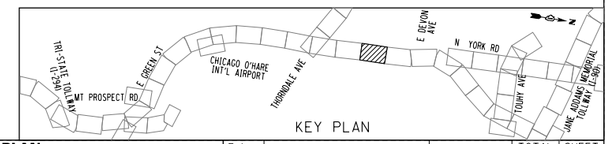
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE
WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	140
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBYI5_FullBuild.dgn
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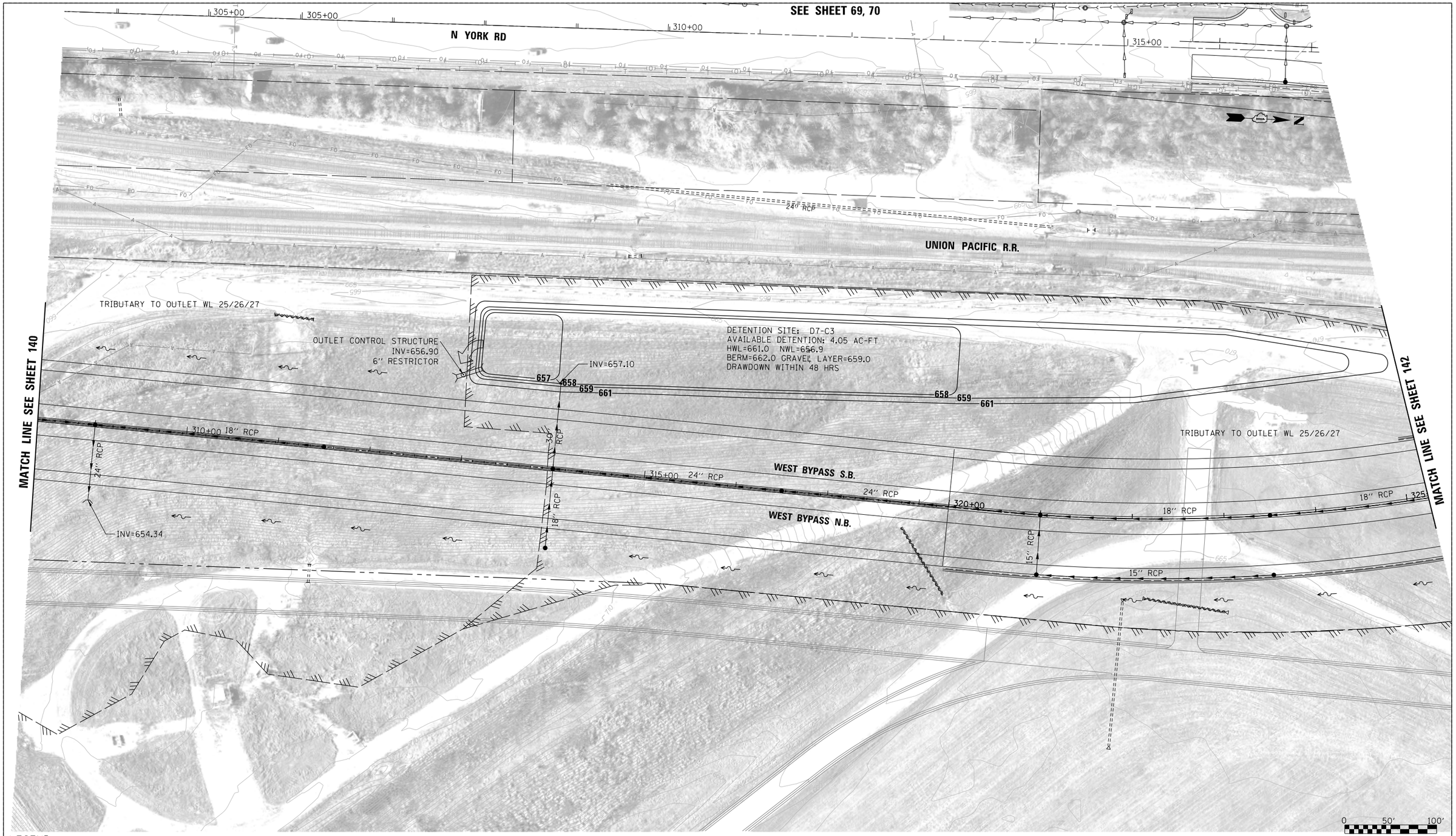


LEGEND:

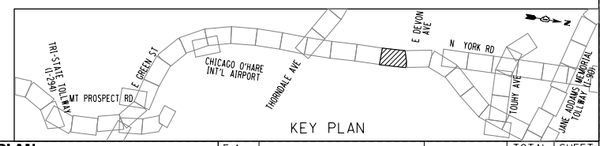
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	141
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBY16_FullBuild.dgn
10:20:20 AM

SEE SHEET 70, 71

MATCH LINE SEE SHEET 141

MATCH LINE SEE SHEET 143

N YORK RD

E DEVON AVE

ELMHURST RD (IL RT 83)

320+00

325+00

330+00

335+00

340

24" RCP (L)

24" RCP (MIN.)

TRIBUTARY TO OUTLET WL 21

15" RCP

18" RCP

24" RCP

WEST BYPASS S.B.

WEST BYPASS N.B.

30" RCP

36" RCP

RAMP V1

UNION PACIFIC R.R.

140+00

TRIBUTARY TO OUTLET WL 25/26/27

DuPAGE

COOK

0 50' 100'

LEGEND:

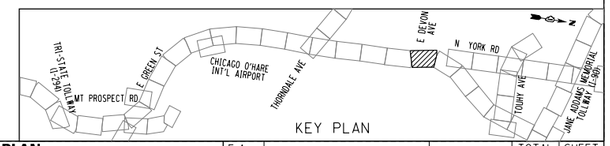
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



KEY PLAN

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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS

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Illinois Department of Transportation

CHRISTOPHER S. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	142
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBYI7_FullBuild.dgn
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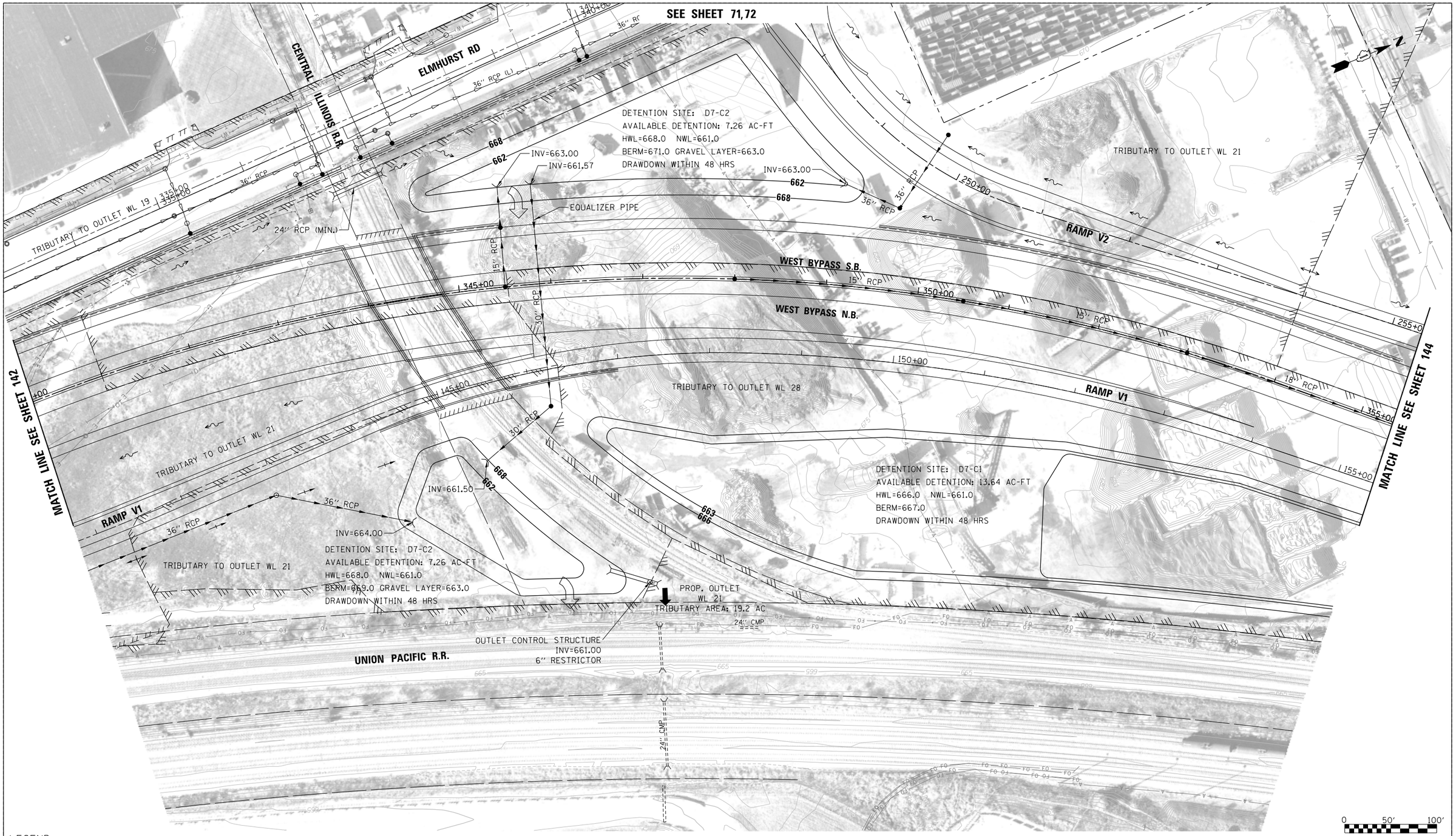


LEGEND:

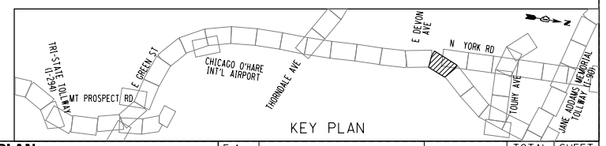
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	143
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBYI8_FullBuild.dgn
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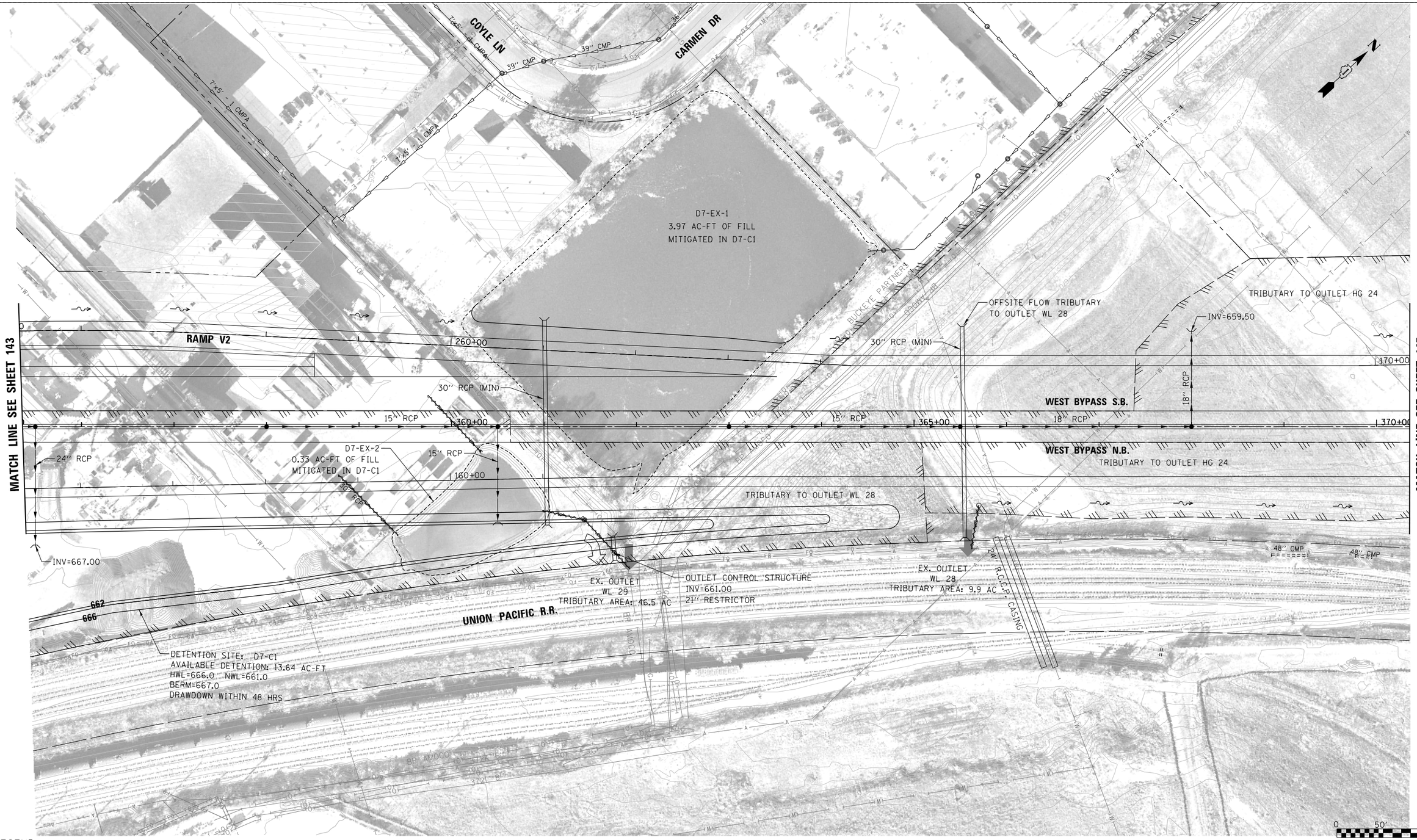


LEGEND:

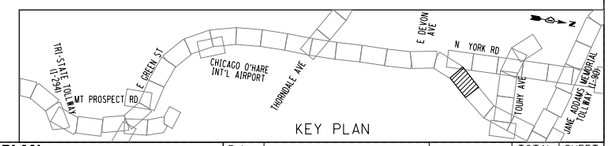
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	144
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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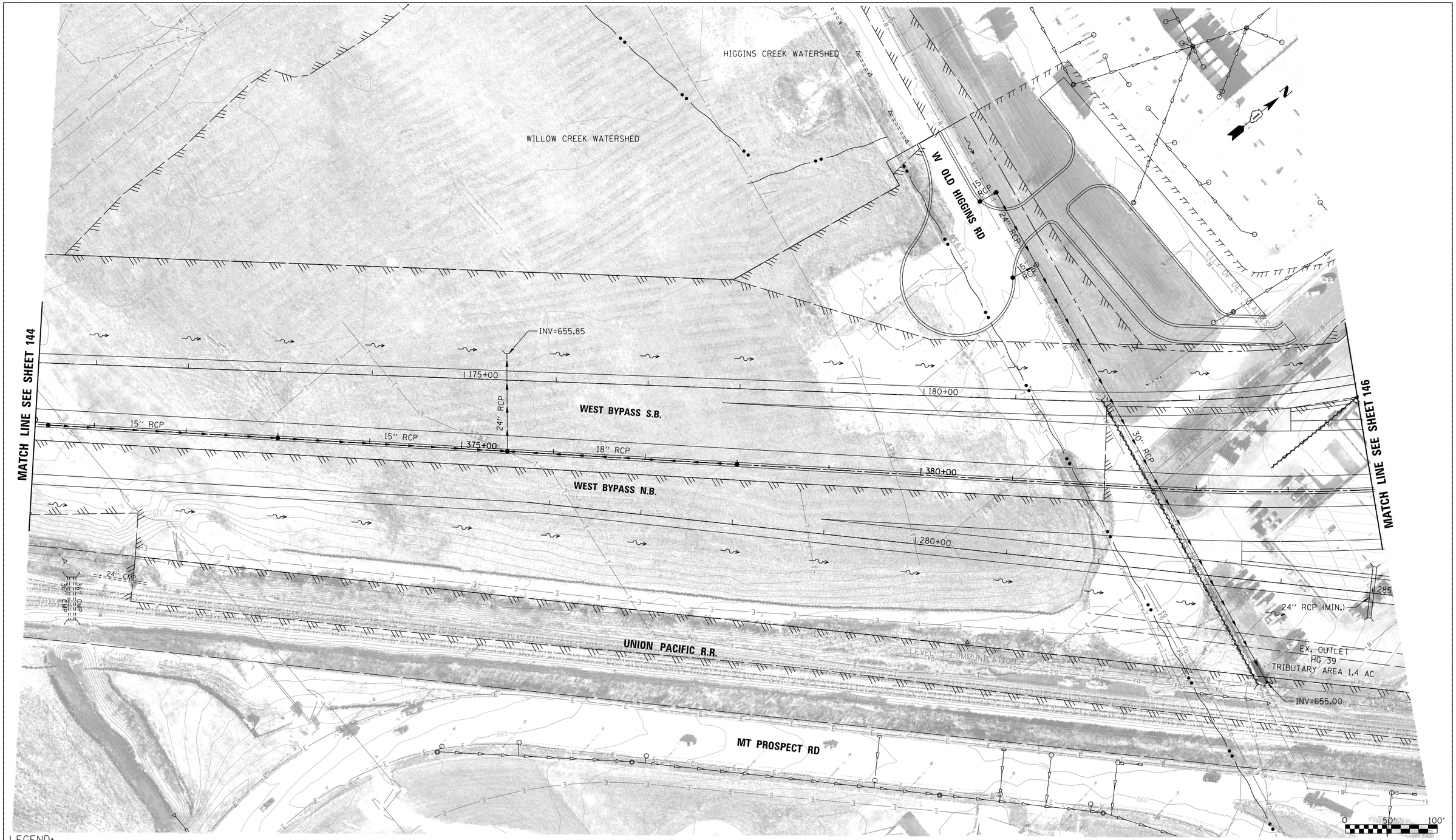


LEGEND:

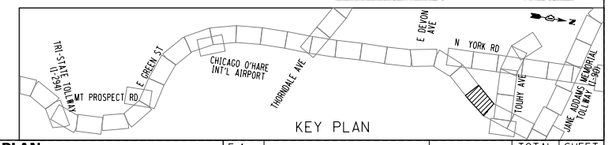
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED / HIGGINS CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	145
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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10:29:6 AM

SEE SHEET 211

MATCH LINE SEE SHEET 145

MATCH LINE SEE SHEET 147

DETENTION SITE: D7-N2
AVAILABLE DETENTION: 4.59 AC-FT
HWL=652.0 NWL=648.0
BERM=655.0
DRAWDOWN WITHIN 48 HRS

DETENTION SITE: D7-N1
AVAILABLE DETENTION: 4.67 AC-FT
HWL=652.0 NWL=647.0
BERM=655.0
DRAWDOWN WITHIN 48 HRS

DETENTION SITE: D5-S
AVAILABLE DETENTION: 11.55 AC-FT
HWL=653.0 NWL=647.0
BERM=656.0 GRAVEL LAYER=648.0
DRAWDOWN WITHIN 48 HRS

EQUALIZER PIPE

OUTLET CONTROL STRUCTURE
INV=647.00
11" RESTRICTOR
INV=651.50

OUTLET CONTROL STRUCTURE
INV=647.00
20" RESTRICTOR
INV. = 653.15

INV=648.25

INV=647.10

RAMP W1

RAMP W2

RAMP W3

WEST BYPASS S.B.

WEST BYPASS N.B.

W TOUHY AVE

TRIBUTARY TO OUTLET HG 24

TRIBUTARY TO OUTLET HG 31

TRIBUTARY TO OUTLET HG 32

SEE SHEET 212

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	L430+00	L715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

FILE NAME = DIEOWB-sht-pr-drain-WBY2l_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	146
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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MATCH LINE SEE SHEET 148

MATCH LINE SEE SHEET 146

SEE SHEET 94, 95

COMPENSATORY STORAGE SITE
FOR CONSTRUCTION PHASE STORAGE
AND PERMANENT FLOODPLAIN FILL

REQUIRED STORAGE:
171 ACRE-FT

TOUHY AVENUE RESERVOIR
CELL 1

TOUHY AVENUE RESERVOIR
CELL 2

100-YR FLOODPLAIN 652.45

100-YR FLOODPLAIN 650.45

100-YR FLOODPLAIN 650.00

FLOODWAY

HIGGINS CREEK

PROP. OUTLET
HG 31

PROP. OUTLET
HG 32

INV=664.00

INV=664.30

RAMP X1

RAMP X2

WEST BYPASS S.B.

WEST BYPASS N.B.

CONC. DRAIN

15" RCP

18" RCP

400+00

405+00

410+00

195+00

210+00

0 50' 100'

N

LEGEND:

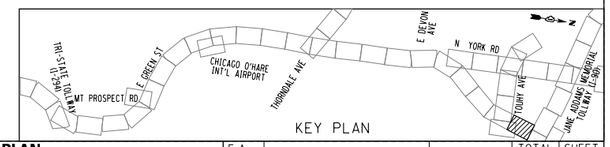
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFRENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT	TT TT TT T	
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



KEY PLAN

FILE NAME = DIEOWB-sht-pr-drain-WBY22_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

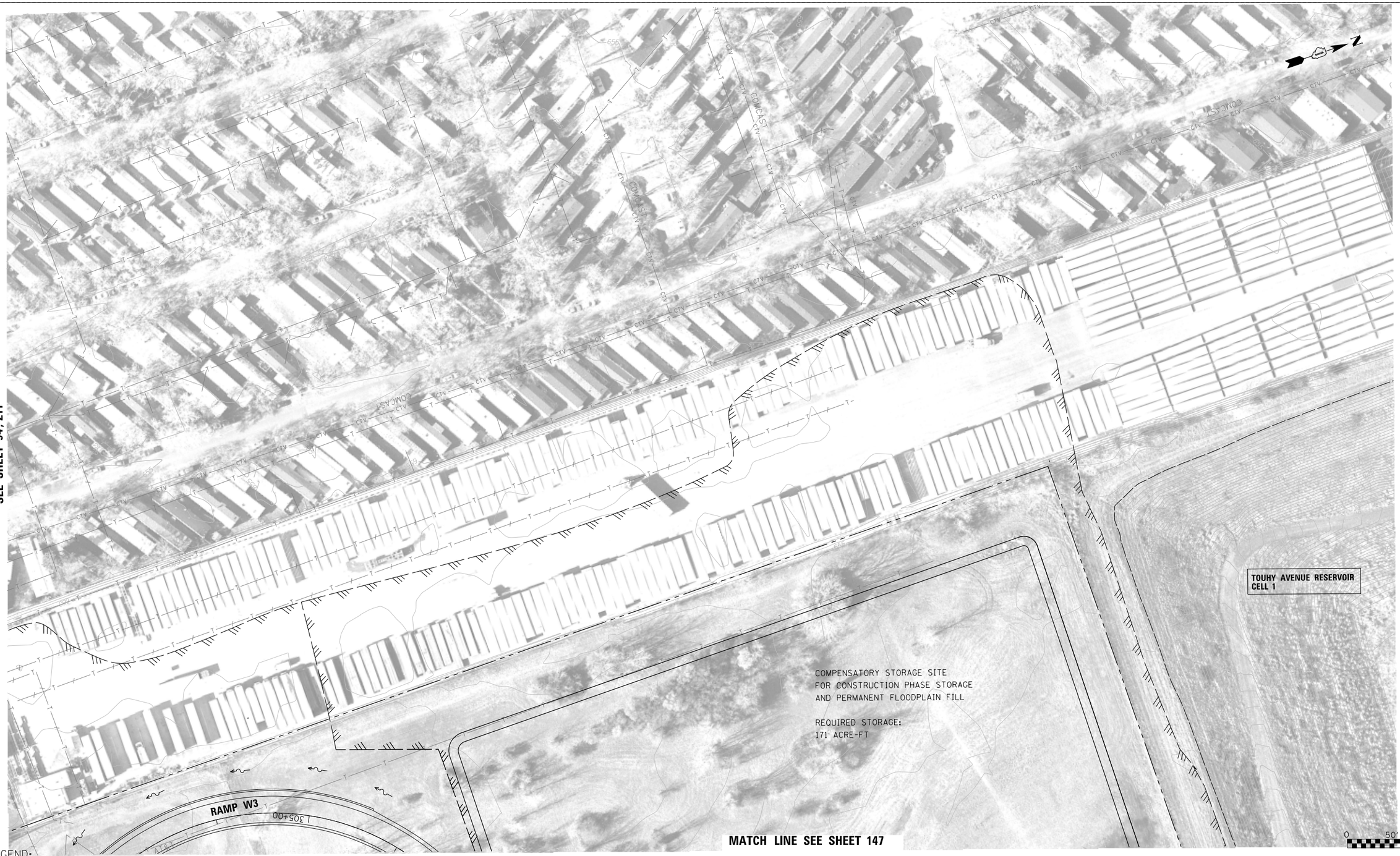
PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	147
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DEOWB-sht-pr-drain-WBY22_FullBuild.dgn
10:2:43 AM

SEE SHEET 94, 211



LEGEND:

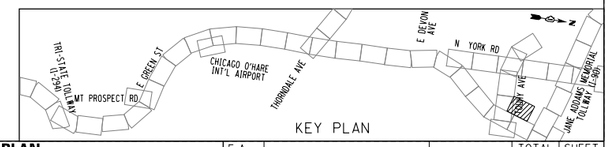
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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		DRAWN MYG	REVISED -		
	PLOT SCALE = 100'	CHECKED CW	REVISED -		CHRISTOPHER B. BURKE ENGINEERING, LTD.
	PLOT DATE = 11/30/2012	DATE -	REVISED -		

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	148
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WBY23_FullBuild.dgn
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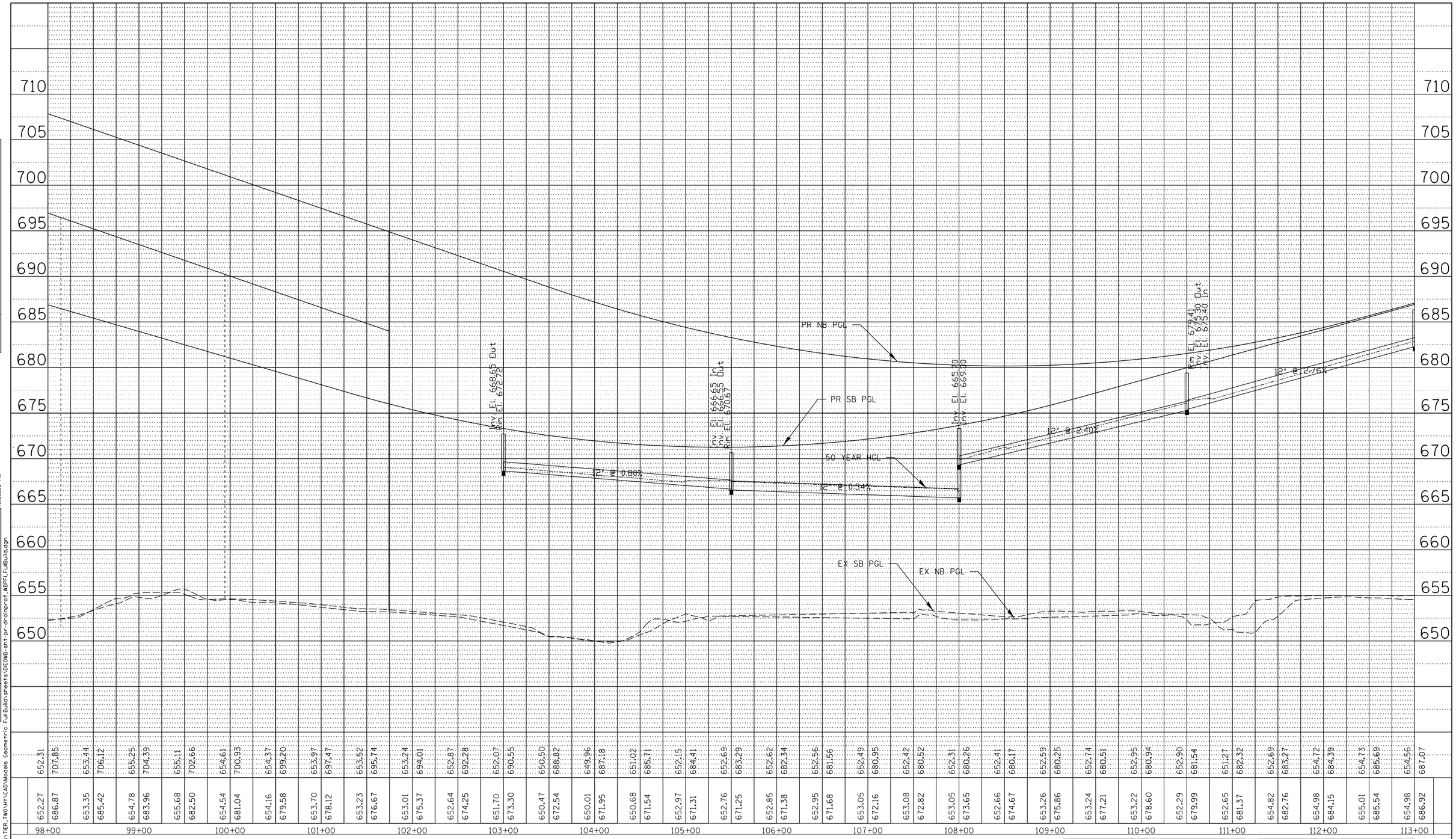
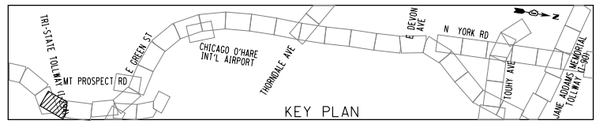


	98+00	99+00	100+00	101+00	102+00	103+00	104+00	105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00
	652.27	653.35	654.78	655.68	654.54	654.16	653.70	653.23	653.01	652.64	651.70	650.47	650.01	650.68	652.97	652.76	652.85	652.95	653.05	653.08	653.05	652.66	653.26	653.24	653.22	652.29	652.65	654.82	654.98	655.01	654.98
	686.87	685.42	683.96	682.50	681.04	679.58	678.12	676.67	675.37	674.25	673.30	672.54	671.95	671.54	671.31	671.25	671.38	671.68	672.16	672.82	673.65	674.67	675.86	677.21	678.60	679.99	681.37	682.76	684.15	685.54	686.92
	652.31	653.44	655.25	655.11	654.61	654.37	653.97	653.52	653.24	652.87	652.07	650.50	649.96	651.02	652.15	652.69	652.62	652.56	652.49	652.42	652.31	652.41	652.59	652.74	652.95	652.90	651.27	652.69	654.72	654.73	654.56
	707.85	706.12	704.39	702.66	700.93	699.20	697.47	695.74	694.01	692.28	690.55	688.82	687.18	685.71	684.41	683.29	682.34	681.56	680.95	680.52	680.26	680.17	680.25	680.51	680.94	681.54	682.32	683.27	684.39	685.69	687.07



PLAN: SURVEYED; PLOTTED; DRAWN; CHECKED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE: SURVEYED; PLOTTED; DRAWN; CHECKED; BM. NOTED; STRUCTURE NOTATNS CHKD; NOTE BOOK; NO.; BY; DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_WBPFL_FullBuild.dgn 10:22:02 AM

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
SILVER CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	149
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
BML NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		

Y:\36180 - Elgin O'Hare - West Bypass\TER.TWO\MY\CAD\Models Geometric Full Build\sheets\DEOWB-sht-pr-drainprof_WBPF2_FullBuild.dgn 10:22:08 AM

720 715 710 705 700 695 690 685 680 675 670 665 660 655 650 645

PR SB PGL
PR NB PGL
℄ RAMP T1
℄ UP RR
EX SB PGL
EX NB PGL
Rim El. 696.34
Inv. El. 682.30
D.I.T

| | | |

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

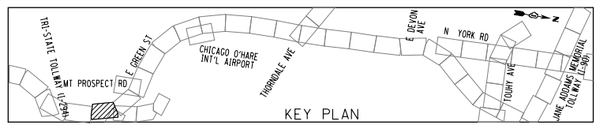
Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_WBPF2a_FullBuild.dgn 10:22:14 AM

720
715
710
705
700
695
690
685
680
675
670
665
660

PR NB PGL
PR SB PGL
℄ FRANKLIN AVE
Inv. El. 700.50 Out
Rim El. 704.51
50 YEAR HGL
72" @ 1.76%
Inv. El. 696.10
Inv. El. 691.75 Out
Rim El. 695.75
In
Inv. El. 687.35
Out
Inv. El. 687.00
Rim El. 691.37
72" @ 1.76%
EX NB PGL
EX SB PGL

	660.26	659.87	660.46	660.71	660.46	659.96	659.91	660.37	660.41	660.78	661.06	661.03	660.89	660.84	660.88	660.73	661.00	660.77	661.35	661.93	660.92	661.16	661.26	661.59	662.55	664.18	664.61	664.41	664.71	664.50	664.91	665.60
	717.85	717.85	717.30	716.59	715.73	714.86	713.98	713.11	712.23	711.36	710.48	709.61	708.73	707.86	706.98	706.11	705.23	704.36	703.48	702.61	701.73	700.86	699.98	699.11	698.23	697.36	696.48	695.61	694.73	693.86	692.98	692.11
	660.79		660.95		660.28		659.76		660.47		659.61		660.90		660.85		661.33		660.68													
	717.30		716.59		715.73		713.98		712.23		710.48		708.73		707.86		705.23		703.48													

128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00 142+00 143+00



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DIEOWB-sht-pr-drainprof_WBPF2a_FullBuild.dgn		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

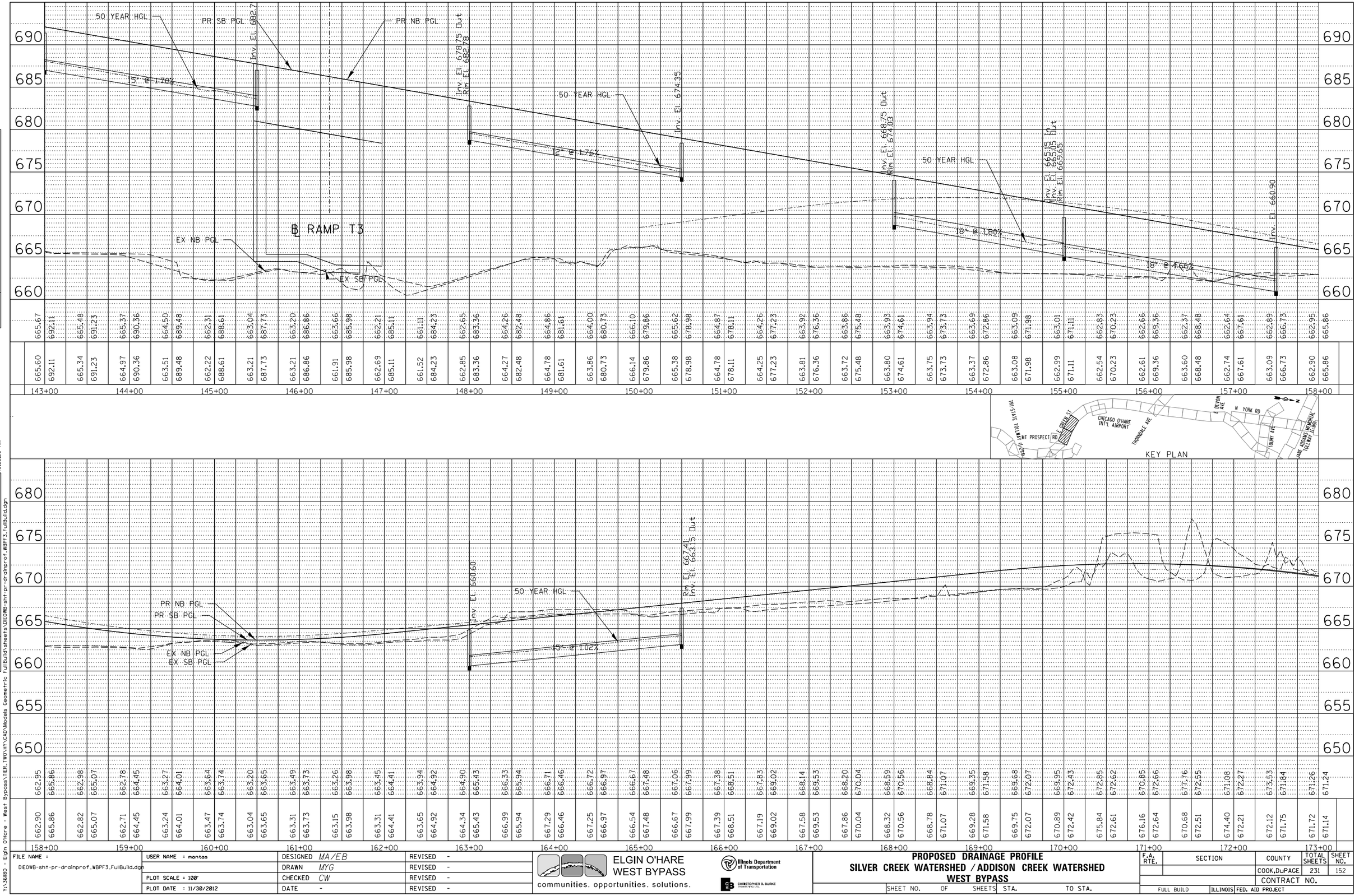
ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
WEST BYPASS
ELGIN O'HARE EXPRESSWAY
SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	151
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
BAL. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CADD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_WBPF3_FullBuild.dgn 10:22:20 AM

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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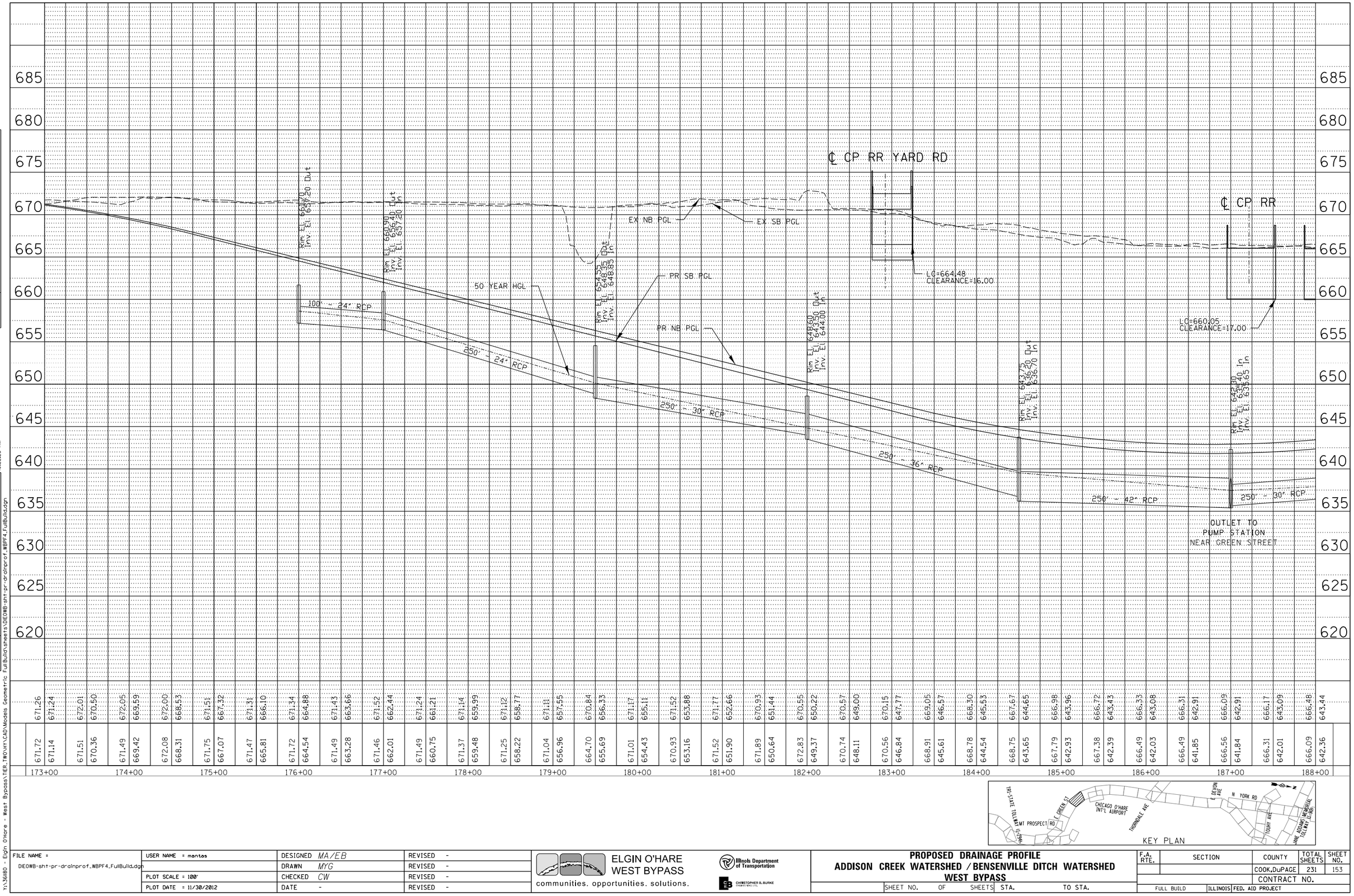
Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
SILVER CREEK WATERSHED / ADDISON CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	152
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			



PLAN
SURVEYED
PLOTTED
DRAWING CHECKED
R/T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
DRAWING CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_WBPF4_FullBuild.dgn 10:22:25 AM

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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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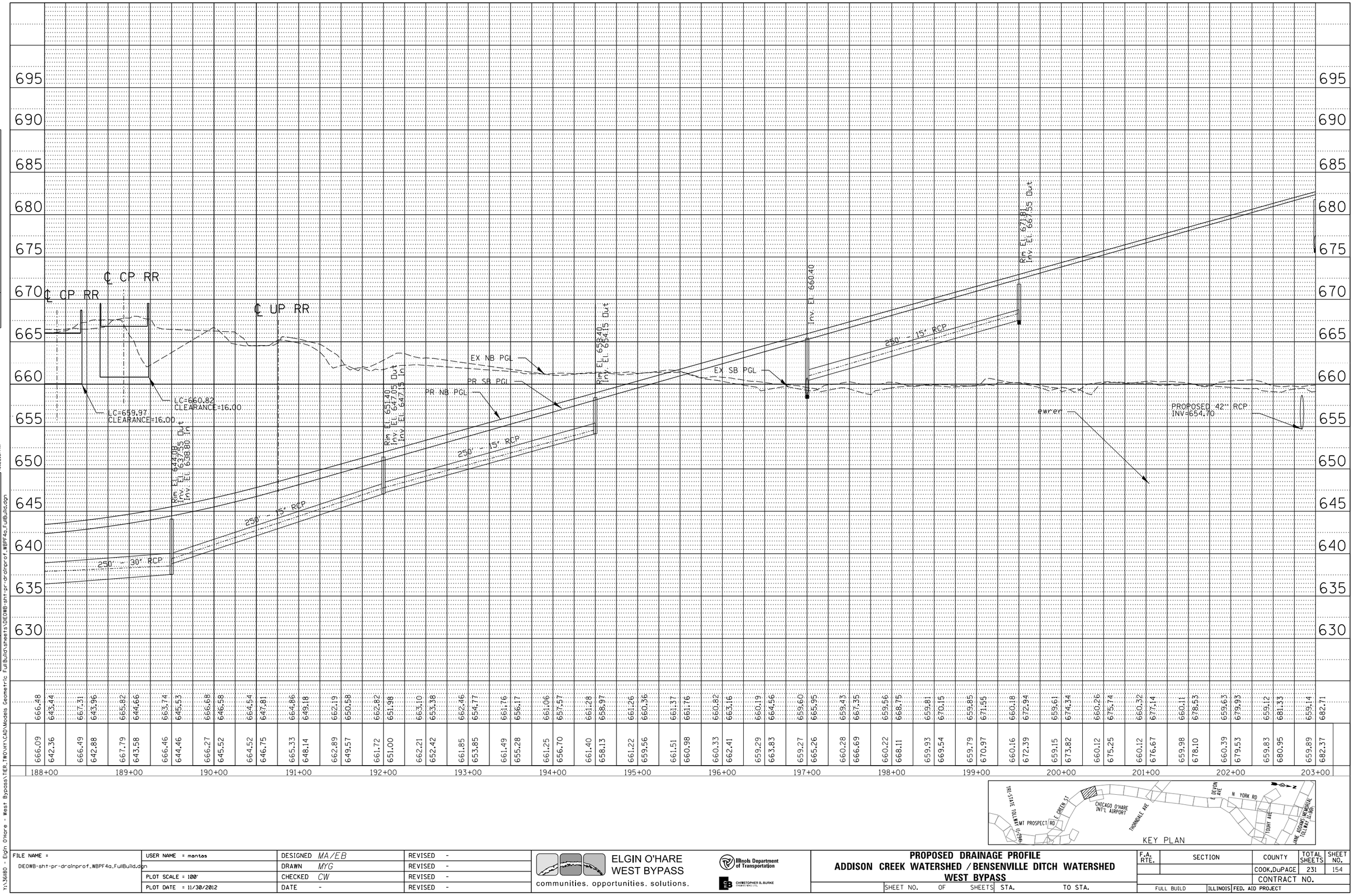
Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON CREEK WATERSHED / BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	153
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_WBPF4a_FullBuild.dgn 10:22:39 AM

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

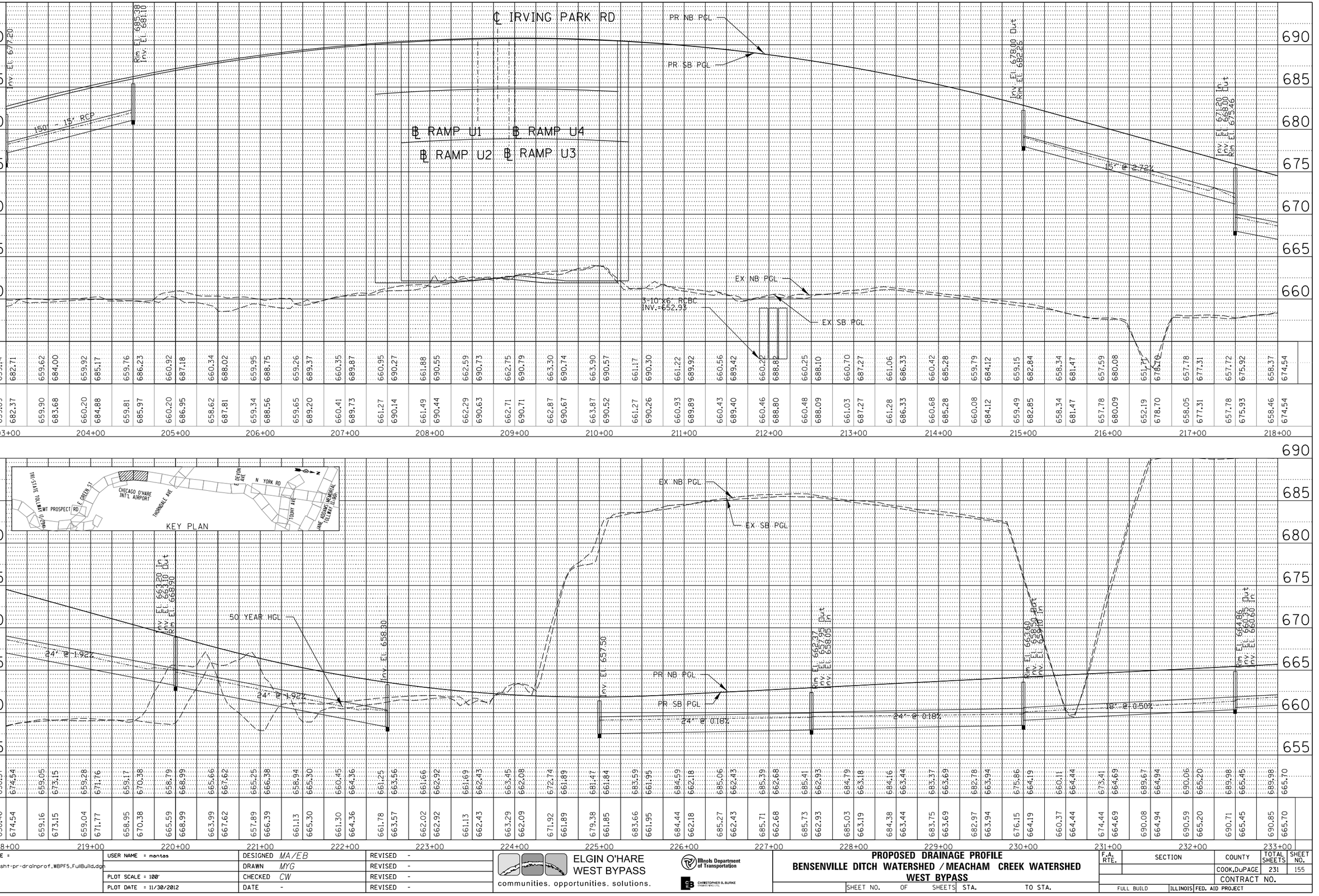
Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON CREEK WATERSHED / BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	154
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			



203+00	204+00	205+00	206+00	207+00	208+00	209+00	210+00	211+00	212+00	213+00	214+00	215+00	216+00	217+00	218+00
659.14	659.62	659.95	659.26	660.35	660.95	661.88	662.59	662.75	663.30	663.90	661.17	661.22	660.56	660.25	660.70	661.06	660.42	659.79	659.15	658.34	657.59	651.71	657.78	657.72	658.37
682.71	684.00	688.75	689.37	689.87	690.27	690.55	690.73	690.79	690.74	690.57	690.30	689.92	689.42	688.10	687.27	686.33	685.28	684.12	682.84	681.47	680.08	678.70	677.31	675.92	674.54
659.89	659.90	659.34	659.65	660.41	661.27	661.49	662.29	662.71	662.87	663.87	661.27	660.93	660.43	660.48	661.03	661.28	660.68	660.08	659.49	658.34	657.78	652.19	658.05	657.78	658.46
682.37	683.68	688.56	689.20	689.73	690.14	690.44	690.63	690.71	690.67	690.52	690.26	689.89	689.40	688.09	687.27	686.33	685.28	684.12	682.85	681.47	680.09	678.70	677.31	675.93	674.54

218+00	219+00	220+00	221+00	222+00	223+00	224+00	225+00	226+00	227+00	228+00	229+00	230+00	231+00	232+00	233+00
658.37	659.05	659.28	658.17	660.38	658.79	660.99	665.66	667.62	665.25	666.38	658.94	665.30	660.45	664.36	661.25	663.56	661.66	662.92	661.69	662.43	663.45	662.08	672.74	661.89	681.47	661.84	683.59	661.95	684.59	662.18	685.06	662.43	685.39	662.68	685.41	662.93	684.79	663.18	684.16	663.44	683.37	663.69	682.78	663.94	675.86	664.19	660.11	664.44	673.41	664.69	689.67	664.94	690.06	665.20	689.98	665.45	689.98	665.70
674.54	673.15	671.76	670.38	668.99	663.99	667.62	665.25	666.38	665.30	664.36	661.78	663.57	662.02	662.92	661.13	662.43	663.29	662.09	671.92	661.89	679.38	661.85	683.66	661.95	684.44	662.18	685.27	662.43	685.71	662.68	685.73	662.93	685.03	663.19	684.38	663.44	683.75	663.69	682.97	663.94	676.15	664.19	660.37	664.44	674.44	664.69	690.08	664.94	690.59	665.20	690.71	665.45	690.85	665.70

PROFILE — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R.O.W. CHECKED / NOTE BOOK / NO. ____ / BM. NOTED / STRUCTURE NOTATNS CHKD — BY — DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_WBPF5_FullBuild.dgn 10:22:36 AM

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
BENSENVILLE DITCH WATERSHED / MEACHAM CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	155
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
PROFILE CHECKED		
BAL. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CADD\Models Geometric Full Build\sheets\DEOWB-sht-pr-drainprof_WBPF6_FullBuild.dgn 10:22:42 AM

690 685 680 675 670 665 660

Rim El. 666.30
Inv. El. 661.90 Out
Inv. El. 662.00 In

Rim El. 667.41
Inv. El. 663.15 Out
Inv. El. 663.40 In

PR SB PGL
50 YEAR HGL
EX NB PGL
EX SB PGL

Rim El. 668.70
Inv. El. 664.70 Out

Inv. El. 666.15

50 YEAR HGL

Rim El. 671.30
Inv. El. 666.80 Out
Inv. El. 667.05 In

Rim El. 672.41
Inv. El. 668.15 Out
Inv. El. 668.40 In

15" @ 0.52%
15" @ 0.46%
12" @ 0.52%
18" @ 0.26%
15" @ 0.44%

| | | |

℄ RAMP P8

℄ RAMP Q7

℄ RAMP P5

℄ RAMP Q6

℄ RAMP Q5

℄ RAMP Q1

PR SB PGL

PR NB PGL

EX SB PGL

EX NB PGL

50 YEAR HGL

Inv El 662.55

Inv El 665.80 Out
Rim El 669.84

Inv El 663.65 In
Inv El 663.40 Out
Rim El 668.81

Inv El 661.50 In
Inv El 661.28 Out
Rim El 665.78

Inv El 659.25 In
Inv El 659.15 Out
Rim El 663.75

Inv El 657.20 In
Inv El 657.10 Out
Rim El 661.72

Rim El 661.63
Inv El 655.80 Out
Inv El 655.70 Out

Inv El 655.59
Inv El 656.30

15" @ 1.64%

12" @ 0.86%

12" @ 0.86%

15" @ 0.76%

18" @ 0.80%

18" @ 0.78%

18" @ 0.64%

15" @ 0.42%

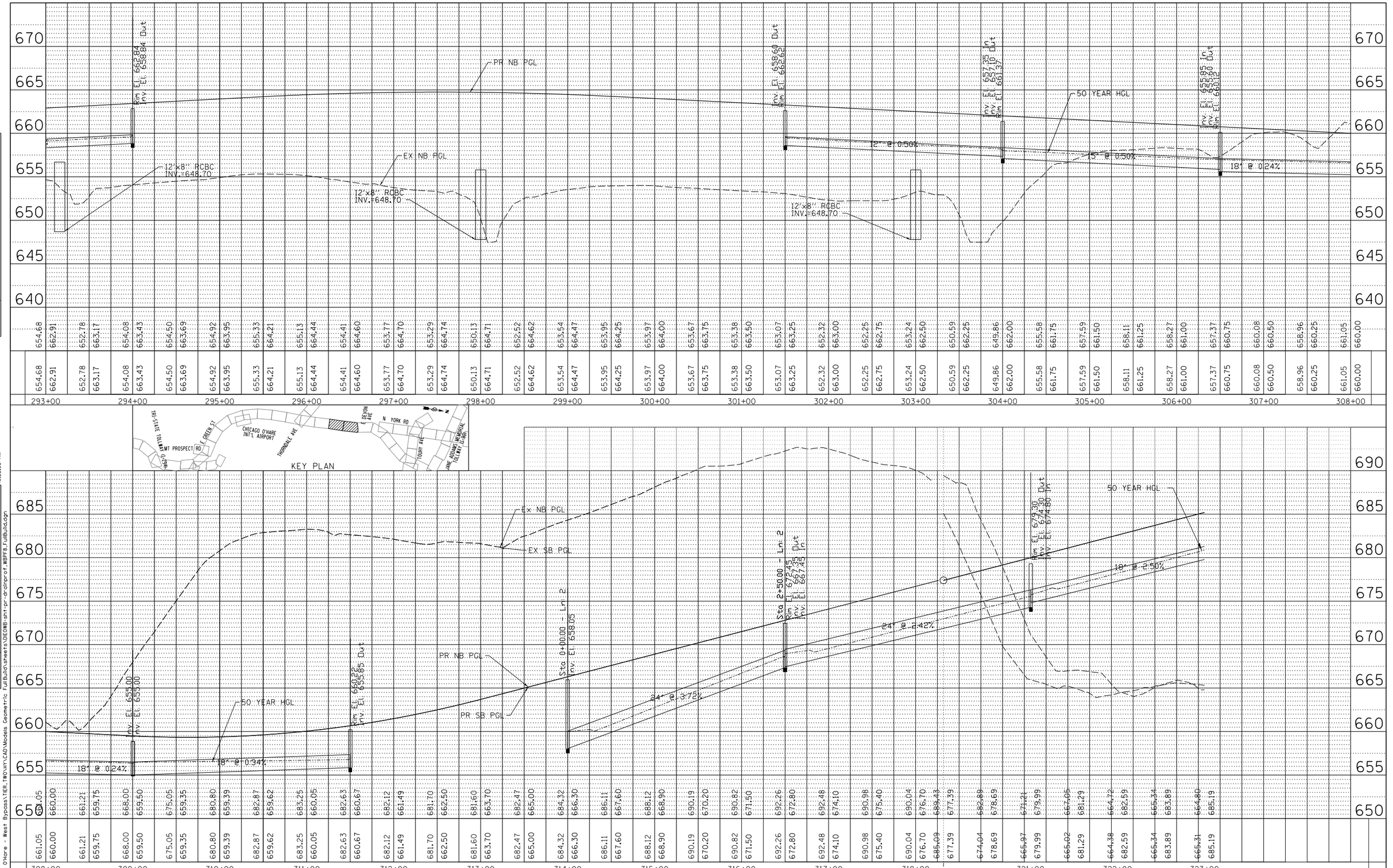
12" @ 0.50%

| | | |

PLAN

SURVEYED	
PLOTTED	
DRAWN	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	

BY	DATE



KEY PLAN

PROFILE

SURVEYED	
PLOTTED	
DRAWN	
ALIGNMENT CHECKED	
BAR. NOTED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	

BY	DATE

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

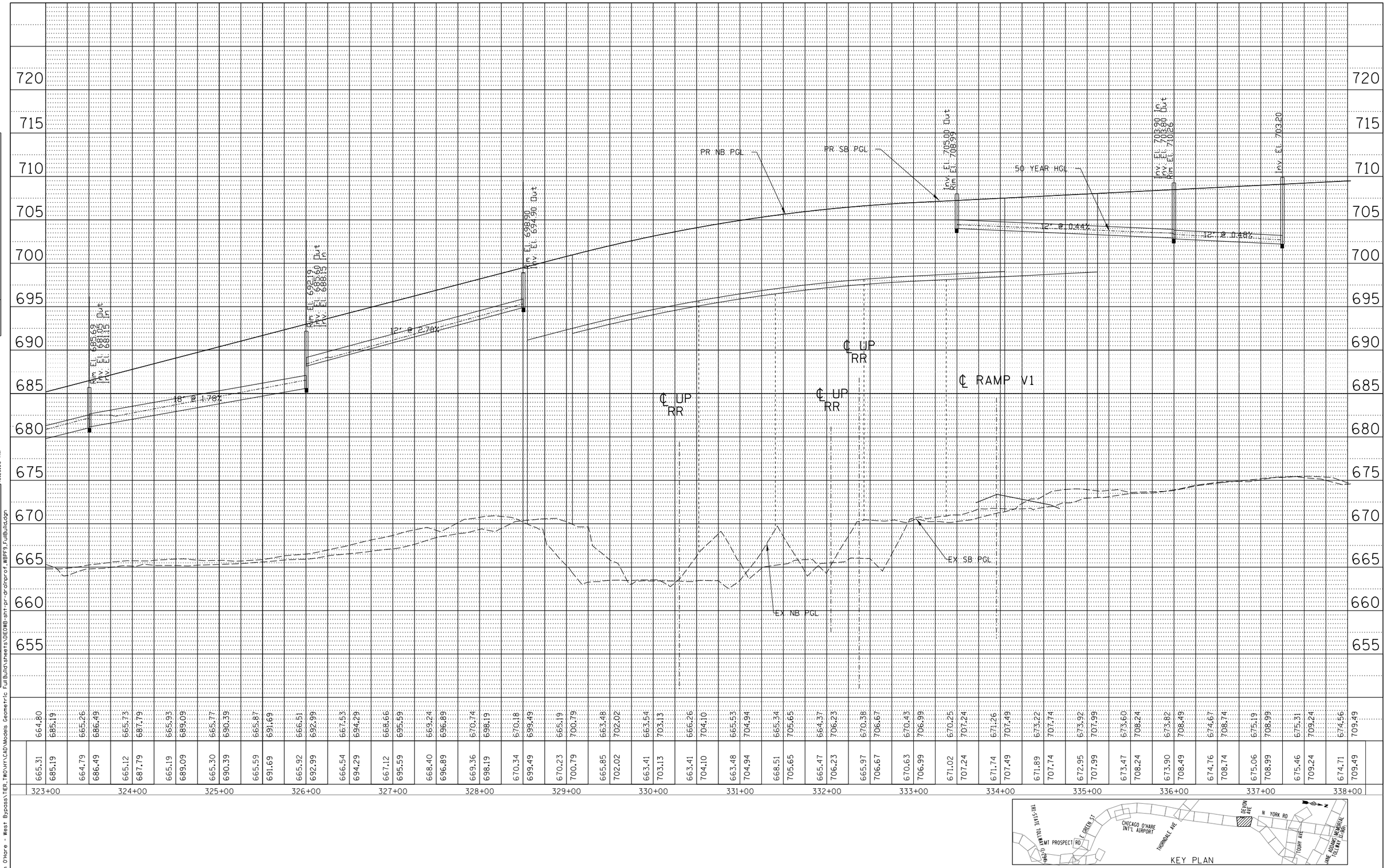
Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	158
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
S.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_WBPF9_FullBuild.dgn 10:23:00 AM

FILE NAME = DIEOWB-sht-pr-drainprof_WBPF9_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	159
		CONTRACT NO.		
	FULL BUILD	ILLINOIS	FED. AID PROJECT	

PR NB PGL

PR SB PGL

Inv. El. 691.40 Out
Rim El. 695.44

EX NB PGL

EX SB PGL

RR SPUR

Inv. El. 683.95 In
Inv. El. 683.80 Out
Rim El. 687.95

12" @ 2.98%

50 YEAR HGL

5" @ 2.70%

Inv. El. 676.85 In
Inv. El. 676.60 Out
Rim El. 681.11

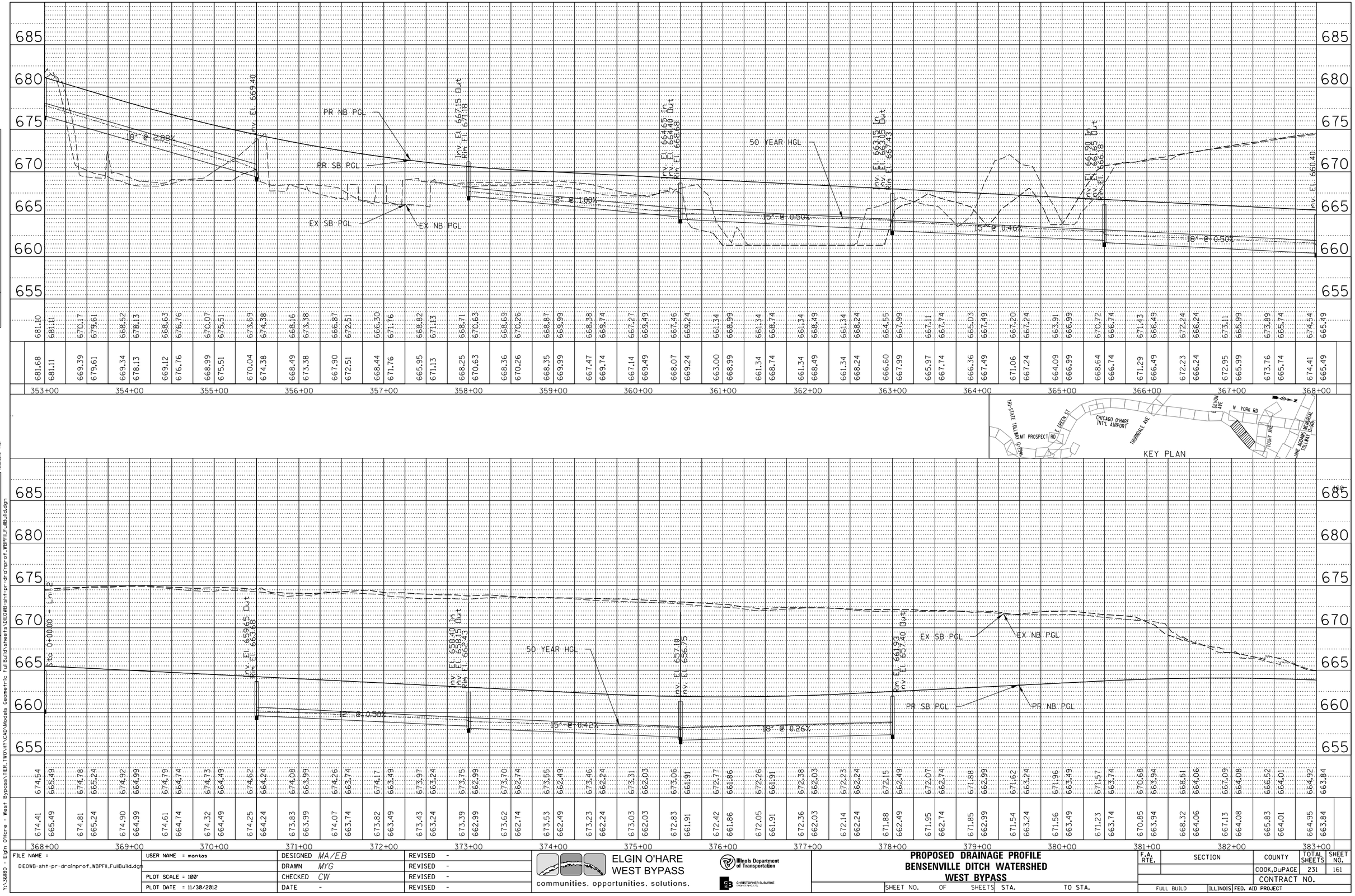
| | | |

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
DRAWN		
ALIGNMENT CHECKED		
R/T OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
DRAWN		
PROFILES CHECKED		
BM. NOTED		
STRUCTURE NOTATNS CHKD		
NOTE BOOK		
NO.		



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	161
		CONTRACT NO.		
FULL BUILD		ILLINOIS FED. AID PROJECT		

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PLAN
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CADD\Models Geometric Full Build\sheets\DEOWB-sht-pr-drainprof_WBPFI2_FullBuild.dgn

675
670
665
660
655
650
645

664.92 663.84 662.70 663.59 661.72 663.29 660.98 662.99 660.40 662.69 660.09 662.39 659.89 662.09 659.59 661.79 659.17 661.49 658.58 661.19 658.04 660.89 657.66 660.59 657.49 660.29 656.96 659.99 656.57 659.69 656.14 659.39 655.68 659.09 655.09 658.79 654.64 658.49 654.30 658.19 653.80 657.96 653.45 658.56 652.78 659.09 653.91 659.76 653.75 660.59 654.16 661.56 653.59 662.69 653.94 663.89

664.95 663.84 663.41 663.59 662.57 663.29 661.43 662.99 660.72 662.69 660.18 662.39 659.97 662.09 659.55 661.79 658.91 661.49 658.51 661.19 658.04 660.89 658.02 660.59 658.29 660.29 657.15 659.99 656.69 659.69 656.18 659.39 655.72 659.09 655.19 658.79 654.69 658.49 654.22 658.19 653.73 657.96 654.16 657.89 651.47 657.96 653.65 658.19 653.16 658.56 652.79 659.09 653.58 659.76 654.61 660.59 654.46 661.56 654.06 662.69 654.54 663.89

383+00 384+00 385+00 386+00 387+00 388+00 389+00 390+00 391+00 392+00 393+00 394+00 395+00 396+00 397+00 398+00

Rim El. 656.85 Out
Inv. El. 661.13

Inv. El. 655.25 In
Rim El. 659.50 Out
Inv. El. 659.67

Inv. El. 651.90 In
Rim El. 655.10 Out
Rim El. 658.30

Inv. El. 649.20

Inv. El. 654.10

50 YEAR HGL

15" @ 0.64%

18" @ 1.24%

24" @ 0.88%

24" @ 3.31%

PR SB PGL

PR NB PGL

EX SB PGL

EX NB PGL

℄ TOUHY AVE
(IL 72)

KEY PLAN
TRI-STATE TOLLWAY (I-294)
MT PROSPECT RD
E GREEN ST
CHICAGO O'HARE INT'L AIRPORT
THORNDALE AVE
E DEVON AVE
N YORK RD
TOUHY AVE
JANE ADDAMS MEMORIAL TOLLWAY (I-90)

690
685
680
675
670
665
660
655

653.94 663.89 654.24 665.09 652.97 666.29 652.47 667.49 652.54 668.69 652.42 669.89 652.04 671.09 651.66 672.29 651.36 673.49 651.15 674.69 650.89 675.89 650.77 677.09 650.49 678.29 650.43 679.49 649.86 680.69 645.25 681.89 644.22 683.09 644.28 684.29 647.63 649.41 685.49 652.63 686.69 643.21 687.89 633.52 689.09 627.20 690.29 623.85 691.49 620.39 692.69 617.24 693.89 612.70 695.07 608.50 696.11 613.64 697.00 629.39 697.74 646.68 698.31

654.54 663.89 654.24 665.09 652.97 666.29 652.47 667.49 652.54 668.69 652.42 669.89 652.04 671.09 651.66 672.29 651.36 673.49 651.15 674.69 650.89 675.89 650.77 677.09 650.49 678.29 650.43 679.49 649.86 680.69 645.25 681.89 644.22 683.09 644.28 684.29 647.63 649.41 685.49 652.63 686.69 643.21 687.89 633.52 689.09 627.20 690.29 623.85 691.49 620.39 692.69 617.24 693.89 612.70 695.07 608.50 696.11 613.64 697.00 629.39 697.74 646.68 698.31

398+00 399+00 400+00 401+00 402+00 403+00 404+00 405+00 406+00 407+00 408+00 409+00 410+00 411+00 412+00 413+00

Rim El. 664.43
Inv. El. 659.40 Out
Inv. El. 659.50 In

Rim El. 670.69
Inv. El. 666.05 Out
Inv. El. 666.15 In

Rim El. 676.50
Inv. El. 671.90 In
Inv. El. 672.00 In

Rim El. 682.50
Inv. El. 678.00 In
Inv. El. 678.25 In

Rim El. 688.4
Inv. El. 684
Inv. El. 684

50 YEAR HGL

10" @ 2.46%

10" @ 2.30%

10" @ 2.40%

15" @ 2.38%

12" @ 2.28%

PR NB PGL

PR SB PGL

EX SB PGL

EX NB PGL

HIGGINS CREEK

TAR CELL 2

FILE NAME = DIEOWB-sht-pr-drainprof_WBPFI2_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -		
		DRAWN MYG	REVISED -		
	PLOT SCALE = 100'	CHECKED CW	REVISED -		
	PLOT DATE = 11/30/2012	DATE -	REVISED -		

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	162
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PR SB PGL

PR NB PGL

EX SB PGL

EX NB PGL

℄ I-90 MASTER PLAN

℄ RAMP X3

℄ RAMP X5

	649.74	698.31	651.50	698.73	656.17	699.00	673.86	699.11	675.39	699.06	675.96	698.86	676.04	698.50	675.34	697.99	675.41	697.32	675.24	696.51	674.22	695.69	670.26	694.86	661.59	694.04	664.65	693.21	664.33	692.39	664.73	691.56	666.40	690.74	671.06	689.91	672.40	689.09	658.87	688.26	663.71	687.44	670.40	686.61	671.71	685.79	672.61	684.96	673.19	684.14	673.54	683.31	671.87	682.49	663.54	681.66	658.06	680.84	656.07	680.01	657.21	679.19
	646.68	698.31	652.69	698.73	662.52	699.00	669.77	699.11	674.71	699.06	674.72	698.86	673.99	698.50	674.28	697.99	674.17	697.32	673.61	696.51	672.29	695.69	669.58	694.86	664.54	694.04	664.68	693.21	664.32	692.39	665.43	691.56	665.21	690.74	670.48	689.91	671.31	689.09	658.65	688.26	660.27	687.44	666.14	686.61	670.53	685.79	671.62	684.96	672.06	684.14	671.74	683.31	666.26	682.49	658.98	681.66	656.53	680.84	656.99	680.01	657.40	679.19

413+00 414+00 415+00 416+00 417+00 418+00 419+00 420+00 421+00 422+00 423+00 424+00 425+00 426+00 427+00 428+00

KEY PLAN

PR NB PGL

PR SB PGL

EX SB PGL

EX NB PGL

	657.21	679.19	656.50	678.36	656.29	677.54	655.99	676.71
	657.40	679.19	657.17	678.36	656.90	677.54	656.85	676.71

428+00 429+00

FILE NAME = DIEOWB-sht-pr-drainprof_WBPFI3_FullBuild.dgn	USER NAME = mantas	DESIGNED MA/EB	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
BENSENVILLE DITCH WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	163
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN — SURVEYED / PLOTTED / HORIZONTAL CHECKED / VERTICAL CHECKED / R/T. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / HORIZONTAL CHECKED / VERTICAL CHECKED / BM. NOTED / STRUCTURE NO'S/'NS CHKD / NOTE BOOK / NO. / BY / DATE

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SEE SHEET 34

ARDMORE ST

PROJECT LIMIT

BRYN MAWR AVE

EB FRONTAGE RD - NO

ELGIN O'HARE EXPY E.B.

ILRT83-EXISTING 2.27 AC-FT OF FILL
MITIGATED IN ILRT83 SW

DETENTION SITE: ILRT83 SW
AVAILABLE DETENTION: 0.86 AC-FT
HWL=673.0 NWL=671.36
BERM=676.0 GRAVEL LAYER=672.0
DRAWDOWN WITHIN 48 HRS

DETENTION SITE: ILRT83 SE
AVAILABLE DETENTION: 1.06 AC-FT
HWL=675.0 NWL=671.0
BERM=676.0 GRAVEL LAYER=672.0
DRAWDOWN WITHIN 48 HRS

RESTRICTOR SHOWN IN RECORD DRAWINGS

CULVERT INV=663.83
TOP OF BEDDING=664.83

INV.=665.20

24" RCP (MIN.)

48" RCP

24" RCP

30" RCP

15" RCP

15" RCP
OUTLET CONTROL
STRUCTURE
INV = 671.36
17.2" RESTRICTOR

20+00

25+00

30+00

35+00

IL-83

NOTE: DRAINAGE INVESTIGATION PERFORMED

IL-83_1
D.A. = 468.5 Ac

12'X5' RCBC

30" RCP

6'X5.5' BOX CULVERT

CULVERT INV=663.40
TOP OF BEDDING=664.40

INV=666.42

CULVERT INV=663.60
TOP OF BEDDING=663.60

6'X4' BOX CULVERT

JUNCTION CHAMBER

CULVERT INV=662.72
TOP OF BEDDING=663.72

36" RCP

TRIBUTARY TO
OUTLET WL 25/26/27

24" RCP

42" RCP

INV = 693.00

300+00

EX. OUTLET
WL 15
TRIBUTARY AREA: 468.5 AC

0 50' 100'

MATCH LINE SEE SHEET 165

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

WISE RD, IRVING PARK RD, BARRINGTON RD, GARY AVE, SPRINGSMITH RD, ROBENBURG RD, WRIGHT BLVD, MITCHELL BLVD, S ROSELLE RD, PLUM GROVE ROAD, MEDINAH RD, MEACHAM RD, RONWING RD, I-290/IL-53, N ARLINGTON HEIGHTS RD, PROSPECT RD, WITTEL DR, STONE RD, WOOD DALE RD, BUSSE (IL-83 NB), YORK RD

FILE NAME = DIEOWB-sht-pr-drain-BUSI_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
BUSSE ROAD (IL 83)

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	164
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-BUSI_FullBuild.dgn
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SEE SHEET 34

MATCH LINE SEE SHEET 164

BMP DETENTION SITE: ILRT83 NW
AVAILABLE DETENTION: 1.67 AC-FT
HWL=676.0 NWL=672.5
BERM=679.0 GRAVEL LAYER=674.0
DRAWDOWN WITHIN 48 HRS

ELGIN O'HARE EXPY E.B.

ELGIN O'HARE EXPY W.B.

TOWER LN

INV=670.96

OUTLET CONTROL STRUCTURE
INV = 672.50
7" RESTRICTOR

TRIBUTARY TO OUTLET WL 16

TRIBUTARY TO OUTLET WL 25/26/27

EX. OUTLET
WL 17
TRIBUTARY AREA: 1.2 AC

IL-83

PROJECT LIMIT

IL-83_2
D.A. = 125.2 Ac

INV=670.30

JUNCTION CHAMBER

10'x4' BOX CULVERT

EX. OUTLET
WL 16
TRIBUTARY AREA: 125.2 AC

WB FRONTAGE RD - NO

INV = 672.00

0 50' 100'

SEE SHEET 34

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430.00	1+715.00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

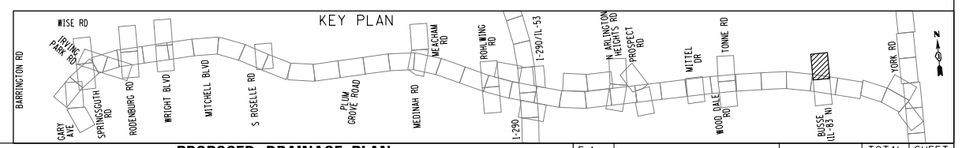
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
BUSSE ROAD (IL 83)

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	165
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-BUS2_FullBuild.dgn
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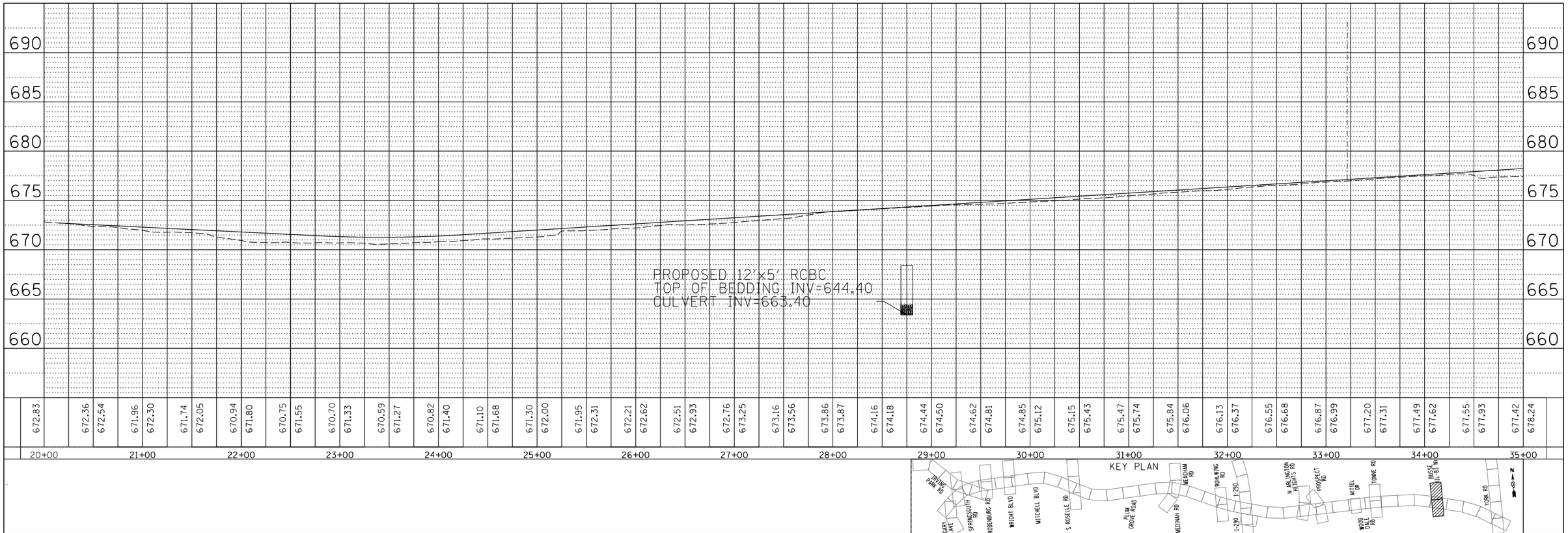
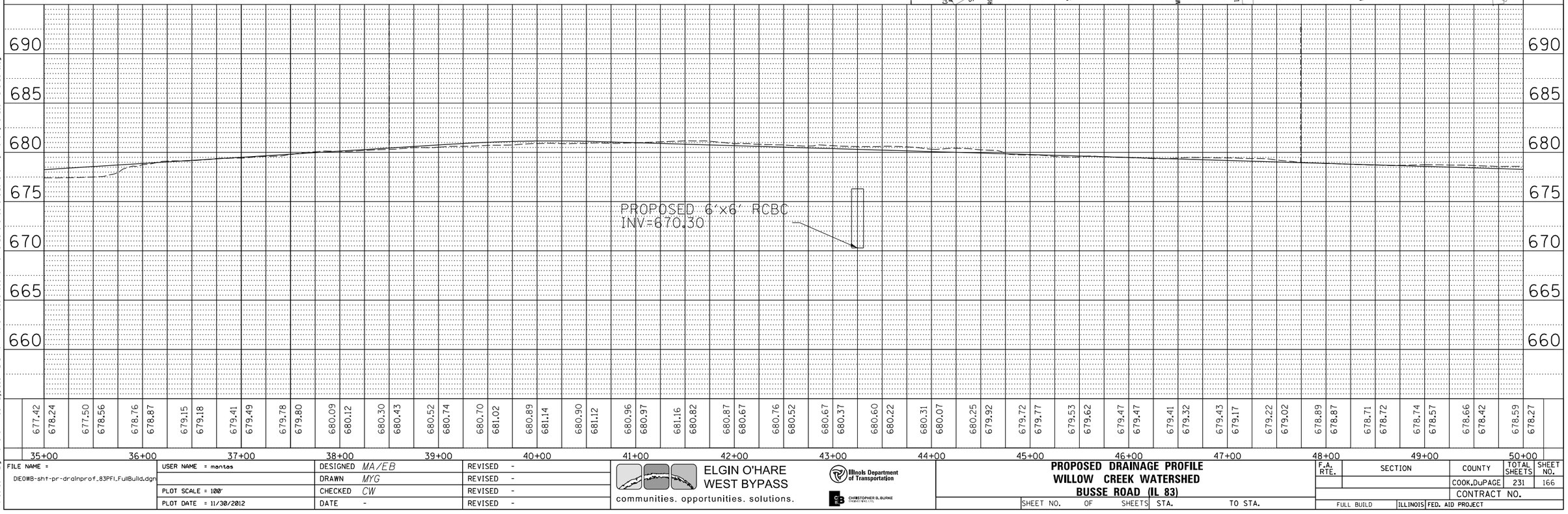
PLAN

BY	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	



PROFILE

BY	DATE
SURVEYED	
PLOTTED	
CROSSES CHECKED	
ILM. NOTED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

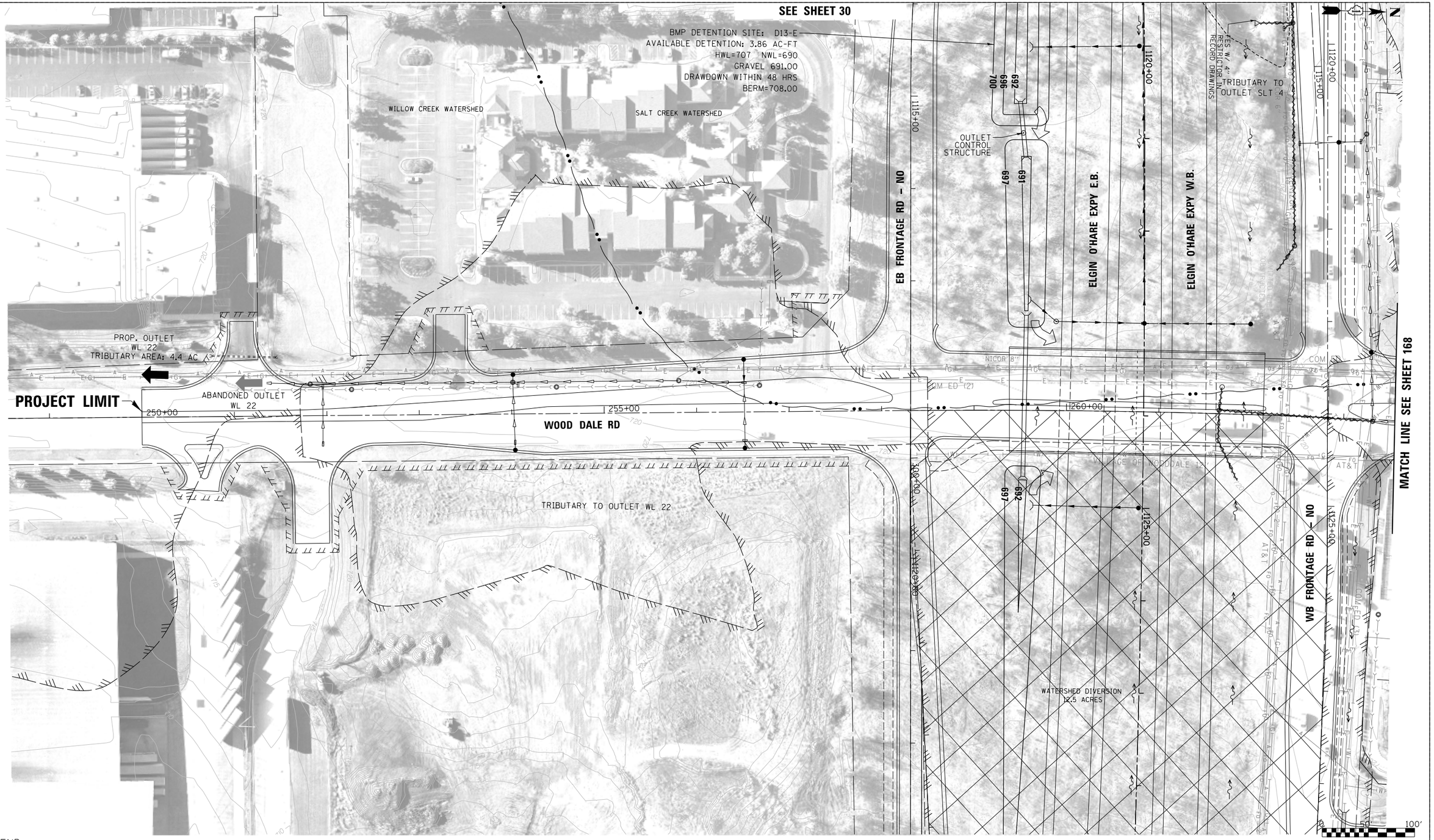
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
WILLOW CREEK WATERSHED
BUSSE ROAD (IL 83)

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	166
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drainprof_83PFI_FullBuild.dgn 10:24:51 AM



LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

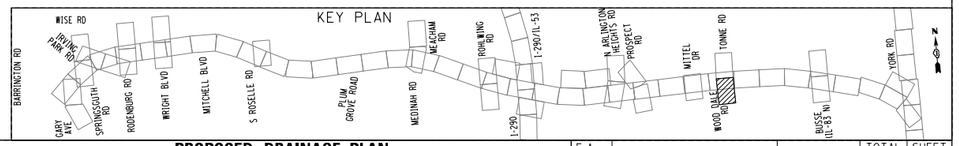
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -	
	PLOT DATE = 11/30/2012	DATE -	REVISED -	

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED /SALT CREEK WATERSHED
WOOD DALE RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	167
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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SEE SHEET 30

MARK ST

SALT CREEK WATERSHED

24" RCP

COM ED

COM AS1

VILLAGE OF WOODDALE 12"

265+00

270+00

275+00

PROJECT LIMIT

N WOOD DALE RD

MATCH LINE SEE SHEET 167

DRIVEWAY A

WILLOW CREEK WATERSHED

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

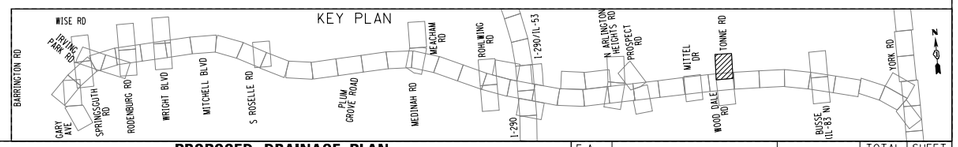
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
WOOD DALE RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	168
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WOD2_FullBuild.dgn
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COMPENSATORY STORAGE
SITE: CS5-SE

AVAILABLE STORAGE:
NORMAL - 10YR: 0.00 AC-FT
10-100YR: 9.10AC-FT
(POND DESIGNED TO BE ACCESSED
ABOVE 10-YEAR ELEVATION)

100 YR = 682.00
10 YR = 680.00
NWL = 673.00

PROJECT LIMIT

EX. OUTLET
SLT 18
TRIBUTARY AREA: 6.2 AC

EX. OUTLET
SLT 5
TRIBUTARY AREA: 2.3 AC

TRIBUTARY TO OUTLET SLT 5

48" RCP

INV = 683.35

24" RCP (MIN.)

48" RCP

MITTEL DR

N MITTEL BLVD

WB FRONTAGE RD - NO

ELGIN O'HARE EXPY E.B.

ELGIN O'HARE EXPY W.B.

LEVEL 3 COMMUNICATIONS

VILLAGE OF WOODDALE

EX. OUTLET
SLT 22
TRIBUTARY AREA: 2.0 AC

TRIBUTARY TO OUTLET SLT 4

PROJECT LIMIT

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+75+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

WISE RD, BARRINGTON RD, IRVING PARK RD, GARY AVE, SPRINGTOOTH RD, ROOSEVELT RD, WRIGHT BLVD, MITCHELL BLVD, S ROSELLE RD, PLUM GROVE ROAD, MEDINAH RD, MEACHAM RD, ROHLWING RD, I-290/IL-53, I-290, N ARLINGTON HEIGHTS RD, PROSPECT RD, MITTEL DR, WOOD DALE RD, TOWNE RD, BUSSE RD (IL-83), YORK RD

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
MITTEL DRIVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	169
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-MITI_FullBuild.dgn
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SEE SHEET 26

INVERNESS LN

GRANVILLE AVE

DETENTION SITE: D4-C/S
AVAILABLE DETENTION: 22.30 AC-FT
HWL=685.0 NWL=680.0
BERM=686.0
DOES NOT DRAWDOWN WITHIN 48 HRS

EQUALIZER PIPE

INV.=684.50

12" RCP

15" RCP

18" RCP

95+00

PROJECT LIMIT

100+00

15" RCP

24"x18" RCP

N PROSPECT RD

220+00

685

681

30" RCP

30" RCP

OUTLET CONTROL STRUCTURE
INV = 680.00
6" RESTRICTOR

105+00

30" RCP

300+00

24"x18" RCP

SEE SHEET 27

065+00

24" RCP

15" CMP

EXISTING THORNDALE AVE

225+00

24" RCP

24" RCP

24" RCP

24" RCP

30" RCP

ABANDONED OUTLET
SLT 8

30" RCP

ELGIN O'HARE EXPY E.B.

ELGIN O'HARE EXPY W.B.

107+00

MATCH LINE SEE SHEET 171

0 50' 100'

SEE SHEET 27

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+75+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

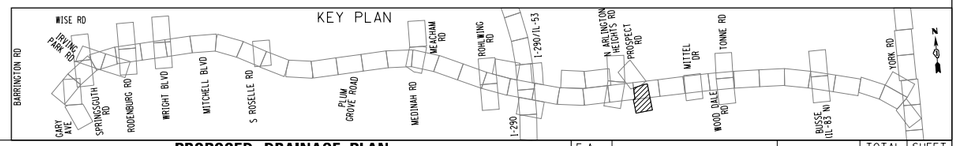
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
PROSPECT RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	170
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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10:26:42 AM

SEE SHEET 26

MATCH LINE SEE SHEET 170

PROJECT LIMIT

N PROSPECT RD

L215+00

110+00

115+00

120+00

30" RCP

36" RCP

24" RCP

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

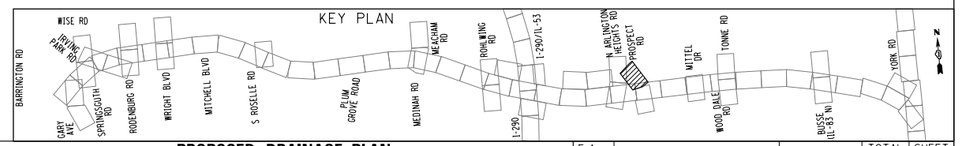
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
PROSPECT RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	171
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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LEGEND:

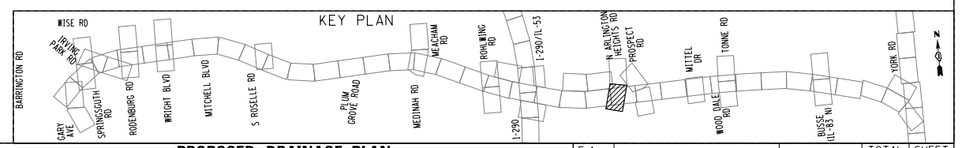
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
N ARLINGTON HEIGHTS ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	172
		CONTRACT NO.		
	FULL BUILD	ILLINOIS	FED. AID PROJECT	

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYVCAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-ARLI_FullBuild.dgn
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PROP. OUTLET
SLT 10
TRIBUTARY AREA: 5.3 AC

PROJECT LIMIT

PIERCE BLVD

EX. OUTLET
SLT 10

30" RCP

24" RCP

24" RCP

510+00

515+00

N ARLINGTON HEIGHTS RD

130+00

MATCH LINE SEE SHEET172

N PROSPECT RD

PROJECT LIMIT

165+00

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

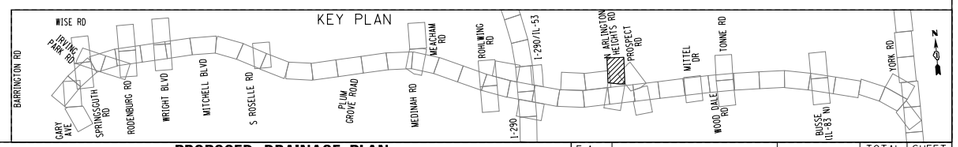
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
N ARLINGTON HEIGHTS ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	173
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-ARL2_FullBuild.dgn
10:27:23 AM

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

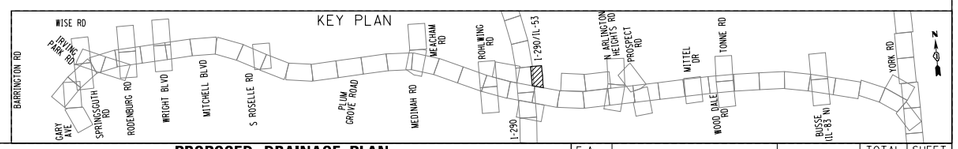
	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

0 50' 100'

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
PARK BLVD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	174
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-PRKI_FullBuild.dgn
10:27:38 AM

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

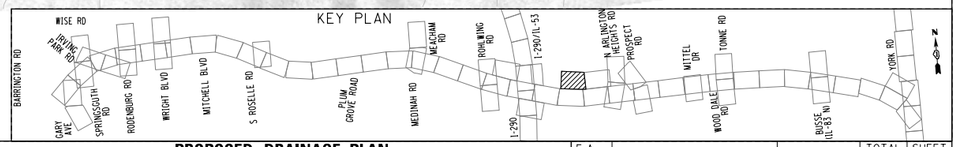
	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

SEE SHEET 24

DRAINAGE PROPOSAL

- CONSTRUCT A WIDE DITCH ON THE NORTH SIDE OF PARK BLVD EXTENSION.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



FILE NAME = DIEOWB-sht-pr-drain-PRK2_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
PARK BLVD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	175
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-PRK2_FullBuild.dgn
10:27:57 AM

MATCH LINE SEE SHEET 175

PARK BLVD

PIERCE ROAD

18" RCP

15" RCP

105+00

110+00

115+00

100+00

KETTER DR

GROUND DATA OMITTED

VILLAGE OF ITASCA

SEE SHEET 173

SEE SHEET 172

N

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

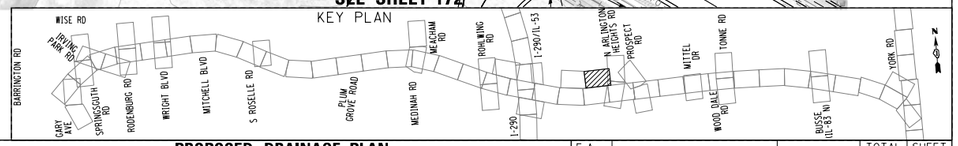
	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

SEE SHEET 25

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
PARK BLVD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	176
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-PRK3_FullBuild.dgn
10:28:04 AM

LEGEND:

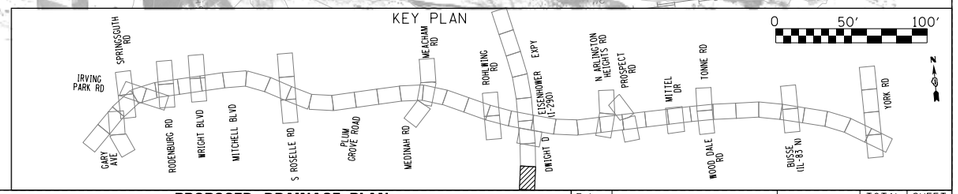
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

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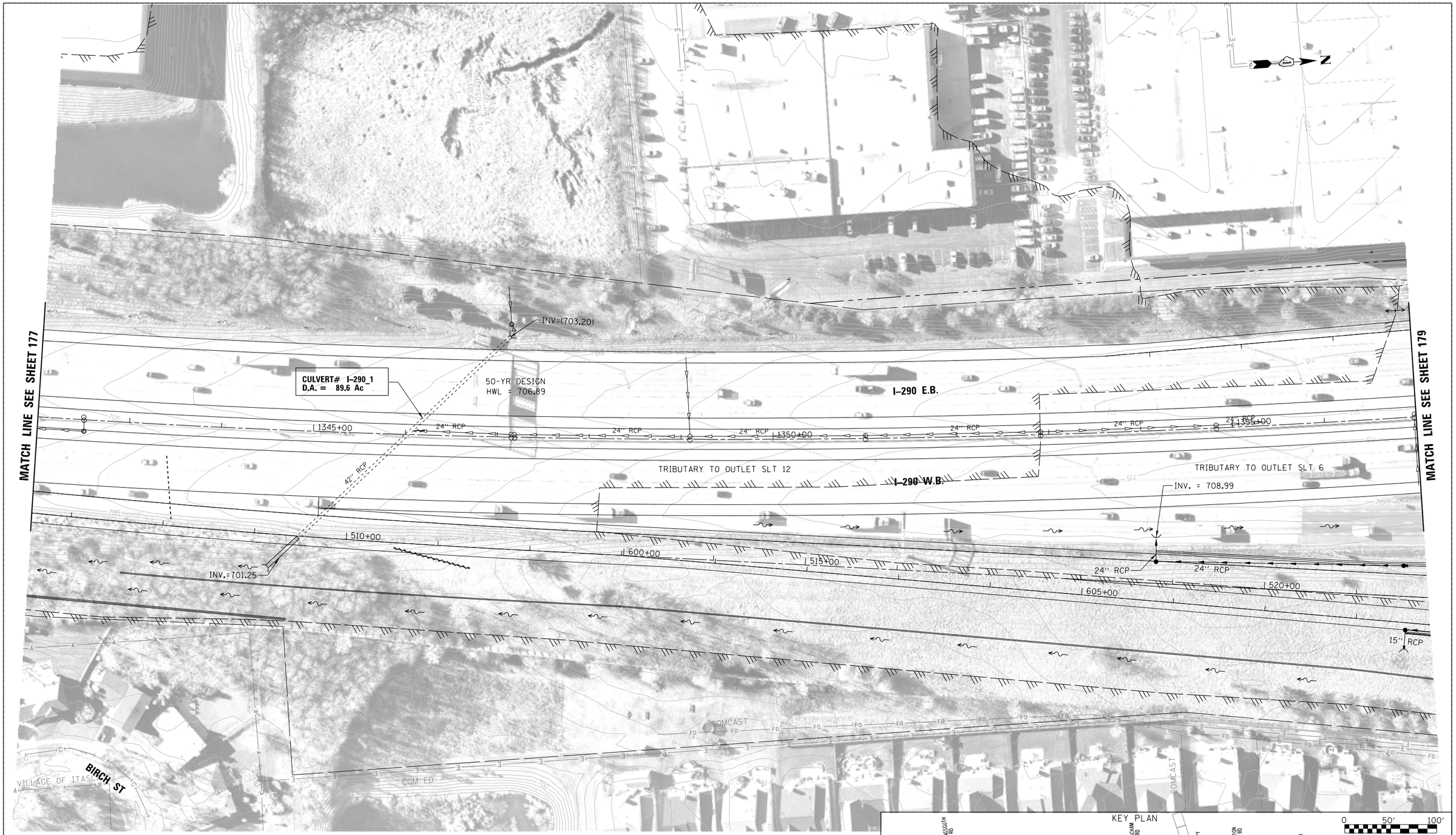
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
I-290

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	177
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYD\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-DEEI_FullBuild.dgn
10:28:9 AM



LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	I 430+00	I 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

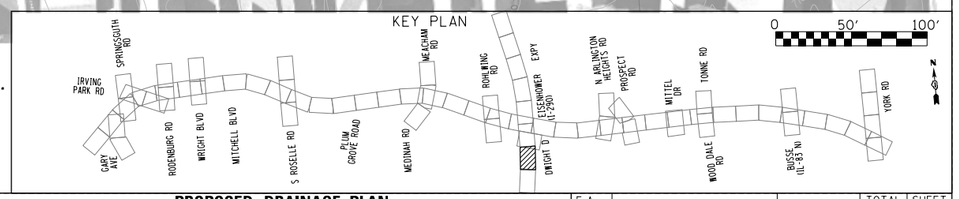
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
I-290

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	178
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER TWO\H\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-DEE2_FullBuild.dgn
10:28:33 AM

SEE SHEET 39

MATCH LINE SEE SHEET 178

MATCH LINE SEE SHEET 180

W THORNDALE AVE

INV.=(706.02)

INV. = 709.95

15" RCP

15" RCP

36" CULVERT

425+00

420+00

415+00

535+00

CULVERT # I-290_2
D.A. = 22.4 AC

42" RCP

RAMP G5

I-290 E.B.

TRIBUTARY TO OUTLET SLT 15

24" RCP

30" X 18" RCP

1360+00

1365+00

1370+00

1375+00

1380+00

TRIBUTARY TO SLT 1

I-290 W.B.

530+00

315+00

INV.=(704.10)

36" CULVERT

18" RCP

15" RCP

525+00

TOP OF BEDDING INV=703.60
CULVERT INV=702.60

RAMP G3

TOP OF BEDDING INV=703.50
CULVERT INV=702.50

4' X 4' BOX CULVERT

610+00

400+00

INV.=713.10

15" RCP

15" RCP

42" RCP

310+00

705

701

705

701

DETENTION SITE: D6-S
AVAILABLE DETENTION: 10.73 AC-FT
HWL=703.9 NWL=700.0
BERM=708.0
DOES NOT DRAWDOWN WITHIN 48 HRS

RAMP K3

305+00

1140+00

SEE SHEET 39

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

0 50' 100'

IRVING PARK RD · SPRINGSOUTH RD · GARY AVE · RODENBURG RD · WRIGHT BLVD · MITCHELL BLVD · S. ROSELLE RD · PLUM GROVE ROAD · MEDINAH RD · MEACHAM RD · ROWLING RD · EISENHOWER EXPY (I-290) · DWIGHT D · N. ARLINGTON HEIGHTS RD · PROSPECT RD · MITTEL DR · TONNE RD · WOOD DALE RD · BUSSE (IL-83 N) · YORK RD

FILE NAME = DIEOWB-sht-pr-drain-DEE3_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
I-290

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	179
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-DEE3_FullBuild.dgn
10:28:48 AM

SEE SHEET 22

MATCH LINE SEE SHEET 179

MATCH LINE SEE SHEET 181

RAMP G2

RAMP G1

RAMP G7

RAMP G8

I-290 E.B.

I-290 W.B.

WIDE DITCH

6'x4' RCBC

3'x4' RCBC

4'x4' RCBC

9'x4' RCBC

36" CULVERT

36" RCP

24" RCP

36" X 24" RCP

36" X 18" RCP

TOP OF BEDDING INV=693.00
CULVERT INV=692.00

TOP OF BEDDING INV = 692.50
CULVERT INV=691.50

TOP OF BEDDING INV=691.20
CULVERT INV=690.20

TOP OF BEDDING INV = 691.20
CULVERT INV=690.20

TOP OF BEDDING INV = 692
CULVERT INV=691.00

INV = 691.14

INV = (692.85)

INV = (690.29)

I-290 OVER
DEVON AVE TRIB
D.A. = 0.55 SQ MI

EX. OUTLET
SLT 15
TRIBUTARY AREA: 178.1 AC

ABANDONED EX. OUTLET
SLT 14

693
697

691.2
697

1300+00
1400+00
1500+00
1600+00
1700+00
1705+00
1715+00
1720+00
1745+00
1740+00
1375+00
1380+00
1385+00
1810+00
1815+00
1820+00

SEE SHEET 22

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN

0 50' 100'

IRVING PARK RD
SPRINGSMITH RD
GARY AVE
ROSENBURG RD
WRIGHT BLVD
MITCHELL BLVD
S ROSELLE RD
PLUM GROVE ROAD
MEDINAH RD
MEACHAM RD
ROHLWING RD
EISENHOWER EXPY (I-290)
DWIGHT D
N ARLINGTON HEIGHTS RD
PROSPECT
WITTEL DR
TONNE RD
WOOD DALE RD
BUSSE (IL-83 NB)
YORK RD

N

FILE NAME = DIEOWB-sht-pr-drain-DEE4_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
I-290

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	180
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-DEE4_FullBuild.dgn
10:29:01 AM

MATCH LINE SEE SHEET 180

MATCH LINE SEE SHEET 182

RAMP G2

RAMP G1

115+00

225+00

110+00

691.2

697

I–290 E.B.

I–290 W.B.

TRIBUTARY TO SLT 15

TRIBUTARY TO SLT 16

36" X 18" RCP

30" X 19"

1380+00

1395+00

1400+00

1405+00

DuPAGE

COOK

INV. = 695.70

36"x24" RCP

24" RCP

I–290_3
D.A. = 5.4 Ac

INV=(693.02)

INV=(694.91)

EX. OUTLET
SLT 16
TRIBUTARY AREA: 8.6 AC

W. DEVON AVE

VILLAGE OF ELK GROVE

COMCAST

COM ED

EXISTING STRUCTURE TO BE REMOVED

GROUNDWATER TO BE OMITTED FROM OBSTRUCTED FLOW

KEY PLAN

0 50' 100'

IRVING PARK RD

SPRINGSOUTH RD

GARY AVE

ROOSEVELT RD

WRIGHT BLVD

MITCHELL BLVD

S ROSELLE RD

PLUM GROVE ROAD

MEDINAH RD

MEACHAM RD

ROWLING RD

EXPY

ESSENHOWER (I-290)

DWIGHT D

N ARLINGTON HEIGHTS RD

PROSPECT RD

MITTEL DR

TONNE RD

WOODDALE RD

BUSSE (IL-83 N)

YORK RD

N

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

FILE NAME = DIEOWB-sht-pr-drain-DEE5_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
I–290

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	181
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYV\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drain-DEE5_FullBuild.dgn
10:29:05 AM

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	I 430+00	I 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

FILE NAME = DIEOWB-sht-pr-drain-DEE6_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
I-290

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	182
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-DEE6_FullBuild.dgn
10:29:28 AM

MATCH LINE SEE SHEET 182

MATCH LINE SEE SHEET 184

COMCAST

HAWTHORNE LN

VILLAGE OF ELK GROVE 12"

NICOR 2"

HUNTINGTON DR

VILLAGE OF ELK GROVE 12"

NICOR 2"

INV. = 695.52

50-YR DESIGN
HWL=697.21

I-290_5
D.A. = 85.8 Ac

RAMP H1

110+00

698 696

TRIBUTARY TO SLT 20

100+00

105+00

15"

TRIBUTARY TO SLT 17

30" X 18" RCP

36" X 18" RCP

1420+00

36" X 18" RCP

36" X 24" RCP ELIP.

I-290 E.B.

24" X 15" RCP

1425+00

1430+00

PROJECT LIMIT

I-290 W.B.

24" X 12" RCP

30" X 15" RCP

3x 38" X 24" RCP

24" RCP

24" RCP

30" X 15" RCP

30" X 15" RCP

30" X 15" RCP

30" X 15" RCP

INV. = (695.13)

RAMP

30" RCP

30" RCP

30" RCP

24" RCP

+00

24" RCP

1210+00

RAMP H2

1215+00

60" X 60"

NOTE: DRAINAGE INVESTIGATION PERFORMED BY MACKIE CONSULTANTS, INC:
- EXPAND THE EXISTING DETENTION BASIN AT THE NORTHEAST CORNER OF THE IDOT STORAGE YARD.
- REPLACE THE EXISTING 18" DIAMETER STORM SEWER OUTLET WITH A 10" DIAMETER STORM SEWER.

NOTE: DRAINAGE INVESTIGATION PERFORMED BY MACKIE CONSULTANTS, INC:
- CREATE A NEW DETENTION BASIN SOUTH OF THE EXISTING SALT DOMES AT THE IDOT MAINTENANCE FACILITY.
- CONSTRUCT AN OUTLET CONTROL STRUCTURE WITH A RESTRICTOR.

EX. OUTLET
SLT 17
TRIBUTARY AREA: 35.0 AC

STORMWATER DETENTION

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY
- IMPLEMENT MACKIE CONSULTANTS, INC. D.I. DATED FEB 2011.

KEY PLAN

0 50' 100'

IRVING PARK RD · SPRINGSMITH RD · GARY AVE · RODENBURG RD · WRIGHT BLVD · MITCHELL BLVD · S ROSELLE RD · PLUM GROVE ROAD · MEDINAH RD · MEACHAM RD · ROHLWING RD · I-290 EISENHOWER EXPY · DWIGHT D · N ARLINGTON HEIGHTS RD · PROSPECT RD · WITTEL DR · TONNE RD · WOOD DALE RD · BUSSE (IL-83 NB) · YORK RD

N

FILE NAME = DIEOWB-sht-pr-drain-DEE7_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
I-290

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	183
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-DEE7_FullBuild.dgn
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LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

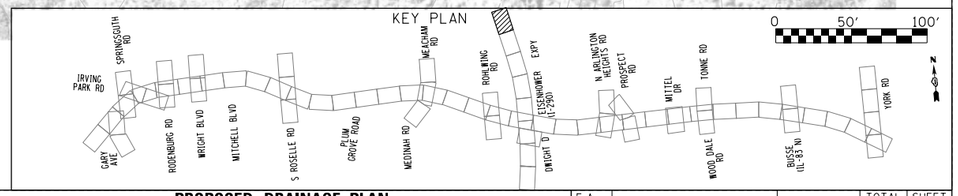
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED /MEACHAM CREEK WATERSHED
I-290

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	184
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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PLOTTED
ALIGNMENT CHECKED
NOTE BOOK
NO.____
R/T. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS SECT. CHECKED
NOTE BOOK
NO.____
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BY
DATE

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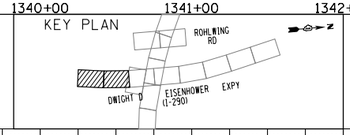
EX EB PGL
PR EB PGL
EX WB PGL
PR WB PGL

1327+00	1328+00	1329+00	1330+00	1331+00	1332+00	1333+00	1334+00	1335+00	1336+00	1337+00	1338+00	1339+00	1340+00	1341+00	1342+00
693.14	693.25	693.43	693.55	693.26	693.67	693.67	693.89	694.08	694.09	694.49	694.40	694.90	694.78	695.31	695.26	695.72	695.60	696.14	696.09	696.56	696.51	696.98	697.04	697.41	697.46	697.85	697.91	698.28	698.34	698.73	698.82	699.17	699.31	699.62	699.71	700.08	700.31	700.54	700.69	701.00	701.27	701.47	701.76	701.94	702.24	702.41	702.70	702.89	703.18	703.37	703.70	703.85	704.14	704.33	704.62	704.80	705.17	705.28
692.11	692.20	692.29	692.46	693.26	692.83	693.67	692.91	694.08	693.16	694.49	693.36	694.90	693.77	695.31	694.09	695.72	694.67	696.14	695.12	696.56	695.70	696.98	696.09	697.41	696.40	697.85	696.89	698.28	697.36	698.73	697.72	699.17	698.38	699.62	698.73	700.08	699.44	700.54	699.91	701.00	700.41	701.47	700.83	701.94	701.37	702.41	701.81	702.89	702.19	703.37	702.70	703.85	703.15	704.33	703.65	704.80	704.10	705.28

KEY PLAN



PROPOSED EXTENSION 42" RCP
INV.= 701.25

PR WB PGL
PR EB PGL
EX WB PGL
EX EB PGL

1342+00	1343+00	1344+00	1345+00	1346+00	1347+00	1348+00	1349+00	1350+00	1351+00	1352+00	1353+00	1354+00	1355+00	1356+00	1357+00
705.17	705.28	705.73	705.76	706.25	706.24	706.71	706.72	707.15	707.19	707.68	707.67	708.11	708.15	708.58	708.62	708.89	709.09	709.39	709.56	709.89	710.03	710.39	710.51	710.90	710.98	711.39	711.45	711.86	711.92	712.27	712.37	712.73	712.80	713.17	713.19	713.50	713.55	713.86	713.88	714.14	714.18	714.44	714.45	714.70	714.69	714.91	714.89	715.11	715.07	715.27	715.21	715.37	715.32	715.32	715.40	715.34	715.45	715.47	715.47	715.39	715.45
704.10	705.28	704.70	705.76	705.25	706.24	705.80	706.72	706.12	707.19	706.70	707.67	707.06	708.15	707.78	708.62	708.19	709.09	708.55	709.56	708.90	710.03	709.22	710.51	709.96	710.98	710.43	711.45	710.79	711.92	711.16	712.37	711.63	712.80	712.21	713.19	712.50	713.55	712.76	713.88	712.97	714.18	713.26	714.45	713.58	714.69	713.78	714.89	713.96	715.07	714.42	715.21	714.43	715.32	714.58	715.40	714.64	715.45	714.65	715.47	714.67	715.45

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PROFILE
SPRING BROOK WATERSHED / MEACHAM CREEK WATERSHED
I-290

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	185
		CONTRACT NO.		
	FULL BUILD	ILLINOIS	FED. AID PROJECT	

PR EB PGL
PR WB PGL
℄ RAMP G5
℄ RAMP G1
EX WB PGL
EX EB PGL
℄ RAMP G3
℄ RAMP K3
℄ EO
EXISTING 42" RCP
INV.-704.10

	720	715	710	705	700	695	690
	715.39	715.45	715.31	715.41	715.31	715.33	716.14
	714.67	715.45	714.45	715.41	714.37	715.33	714.31

	715.23	714.95	715.09	714.79	714.92	714.92	714.66
	715.23	714.09	715.09	713.94	714.92	713.85	714.72

	714.57	714.49	714.31	714.22	714.11	713.94	713.81	713.66	713.48	713.39	713.15	713.11	712.82	712.83	712.52	712.55	712.21	712.27	711.91	711.99	711.59	711.71	711.35	711.43	711.03	711.15	710.74	710.87	710.48	710.60	710.19	710.32	709.91	710.04	709.69	709.76	709.36	709.48	708.96	709.20	708.59	708.94	708.20	708.67	707.87	708.41	707.64	708.15
	713.65	714.49	713.48	714.22	713.13	713.94	712.92	713.66	712.52	713.39	712.30	713.11	712.22	712.83	711.75	712.55	711.53	712.27	711.33	711.99	710.98	711.71	710.65	711.43	710.38	711.15	710.12	710.87	709.80	710.60	709.52	710.32	709.25	710.04	708.94	709.76	708.60	709.48	708.28	709.20	707.67	708.94	707.26	708.67	707.04	708.41	706.71	708.15

1357+00 1358+00 1359+00 1360+00 1361+00 1362+00 1363+00 1364+00 1365+00 1366+00 1367+00 1368+00 1369+00 1370+00 1371+00 1372+00

KEY PLAN
ROHLWING RD
DWIGHT D
EISENHOWER EXPY (I-290)

	715	710	705	700	695	690	685
	707.64	708.15	707.38	707.89	707.11	707.62	706.81	707.36	706.43	707.10	706.32	706.83	706.04	706.57	705.75	706.31	705.46	706.04	705.18	705.78	704.92	705.52	704.63	705.26	704.47	704.99	704.19	704.73	703.89	704.47	703.66	704.20	703.37	703.94	703.09	703.68	702.72	703.42	702.50	703.15	702.30	702.89	702.18	702.63	701.99	702.36	701.79	702.10	701.49	701.84	701.34	701.58	701.06	701.31	700.85	701.05	700.56	700.79	700.31	700.52	700.03	700.26
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	706.71	708.15	706.40	707.89	706.08	707.62	705.91	707.36	705.57	707.10	705.50	706.83	705.24	706.57	704.94	706.31	704.55	706.04	704.34	705.78	704.12	705.52	703.79	705.26	703.43	704.99	703.15	704.73	702.97	704.47	702.60	704.20	702.42	703.94	702.13	703.68	701.85	703.42	701.54	703.15	701.29	702.89	701.11	702.63	700.85	702.36	700.67	702.10	700.33	701.84	700.06	701.58	699.91	701.31	699.72	701.05	699.42	700.79	699.14	700.52	698.85	700.26

1372+00 1373+00 1374+00 1375+00 1376+00 1377+00 1378+00 1379+00 1380+00 1381+00 1382+00 1383+00 1384+00 1385+00 1386+00 1387+00

EXPY
℄ RAMP K5
℄ RAMP G7
PR WB PGL
PR EB PGL
EX WB PGL
EX EB PGL
9'x4' RCBC
INV.-690.29

PLAN
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HORIZONTAL CHECKED
VERT. CHECKED
NOTE BOOK
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ALIGNMENT CHECKED
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DATE

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
SPRING BROOK WATERSHED / MEACHAM CREEK WATERSHED
I-290
SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	186
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

720 715 710 705 700 695 690

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ALIGNMENT CHECKED
NOTE BOOK
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DATE

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EX EB PGL
EX WB PGL
PR EB PGL
PR WB PGL
EXISTING-38"x24" RCPE
INV.=695.24'
EXISTING 2-38"x 24 RCPE
INV.=695.13'

| | | |

DRAINAGE PROPOSAL
•CONSTRUCT NEW DETENTION BASIN(S).
•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

DETENTION SITE: D6-N
AVAILABLE DETECTION: 7.66 AC-FT
HWL=704.00 NWL=696.00
BERM:705.00
DOES NOT DRAWDOWN WITHIN 48 HRS

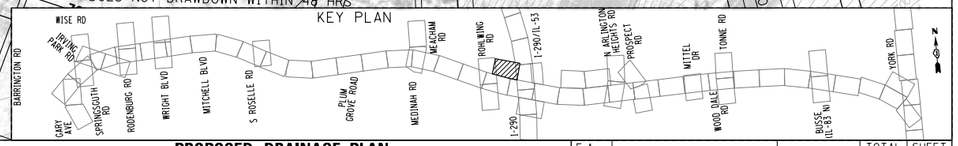
DETENTION SITE: D6-NW
AVAILABLE DETECTION: 3.78 AC-FT
HWL=709.10 NWL=704.00
BERM:710.10
DOES NOT DRAWDOWN WITHIN 48 HRS

DETENTION SITE: D6-C
AVAILABLE DETENTION: 4.46 AC-FT
HWL=707.2 NWL=701.0
BERM=710.2
DOES NOT DRAWDOWN WITHIN 48 HRS

TOP OF BEDDING INV=697.00
CULVERT INV=696.00
INV = 692.00
TOP OF BEDDING INV=701.00
CULVERT INV=700.00
INV=702.00
EQUALIZER PIPE
3'x3' RCBC
4'x3' RCBC
3'x4' RCBC
RCBC
RAMP G1
RAMP G2
RAMP G7
1220+00
1215+00
1210+00
1205+00
1200+00
1125+00
1550+00
696
704
709

SEE SHEET 191
SEE SHEET 180
SEE SHEET 21
SEE SHEET 22

0 50' 100'

KEY PLAN


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

FILE NAME = DIEOWB-sht-pr-drain-RAMGI_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
RAMP G1

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	189
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

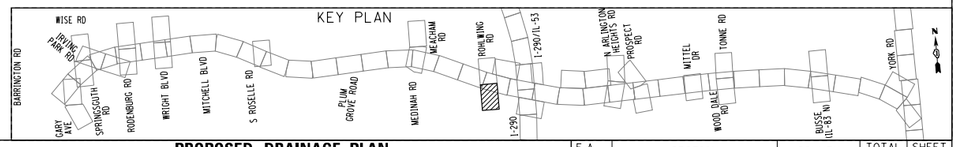
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ROHLWING RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	190
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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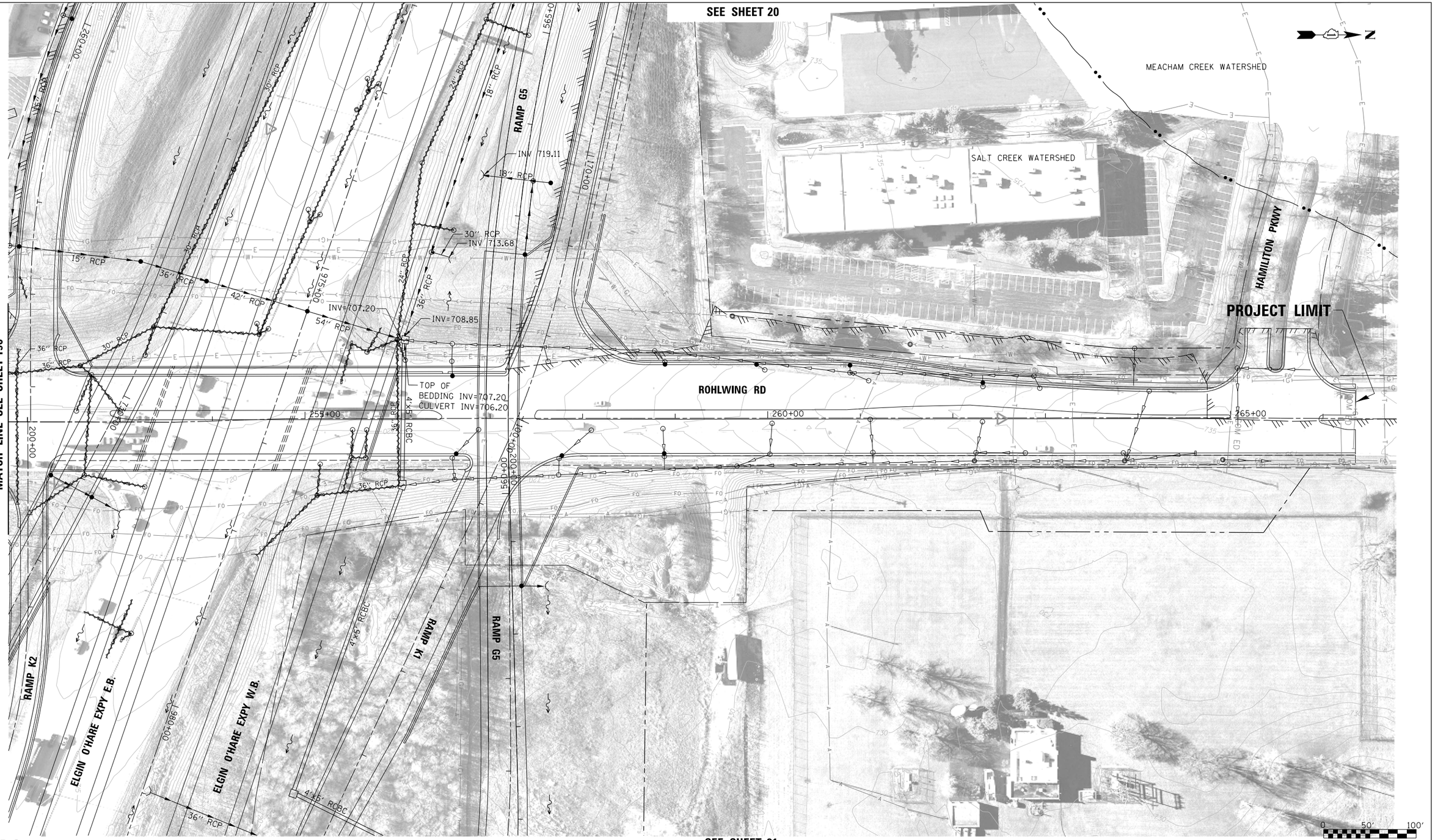


SEE SHEET 21

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	L 430+00	L 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

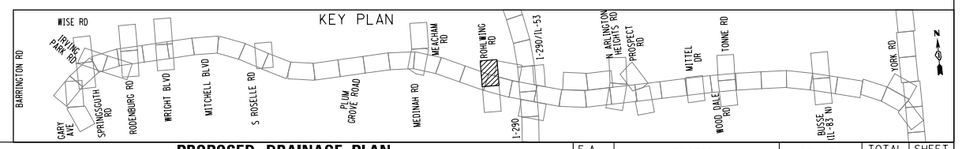
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation
CHRISTOPHER B. BURKE ENGINEERING

PROPOSED DRAINAGE PLAN
SALT CREEK WATERSHED
ROHLWING RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	191
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYD\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-RWG2_FullBuild.dgn
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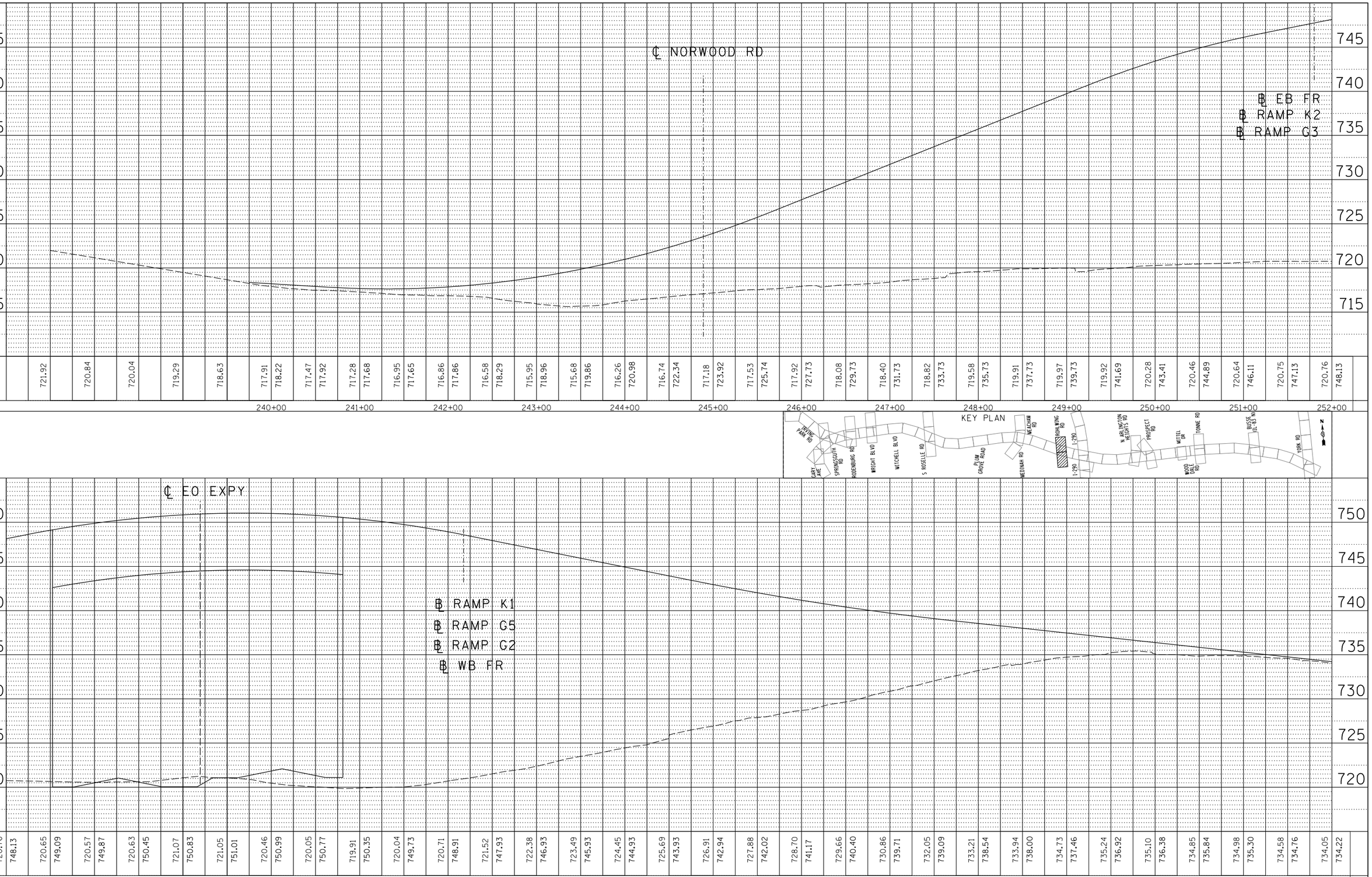

PLAN

BY	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	

PROFILE

BY	DATE
SURVEYED	
PLOTTED	
PROFILE CHECKED	
ELM. NOTED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_53PFI_FullBuild.dgn 10:32:17 AM

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

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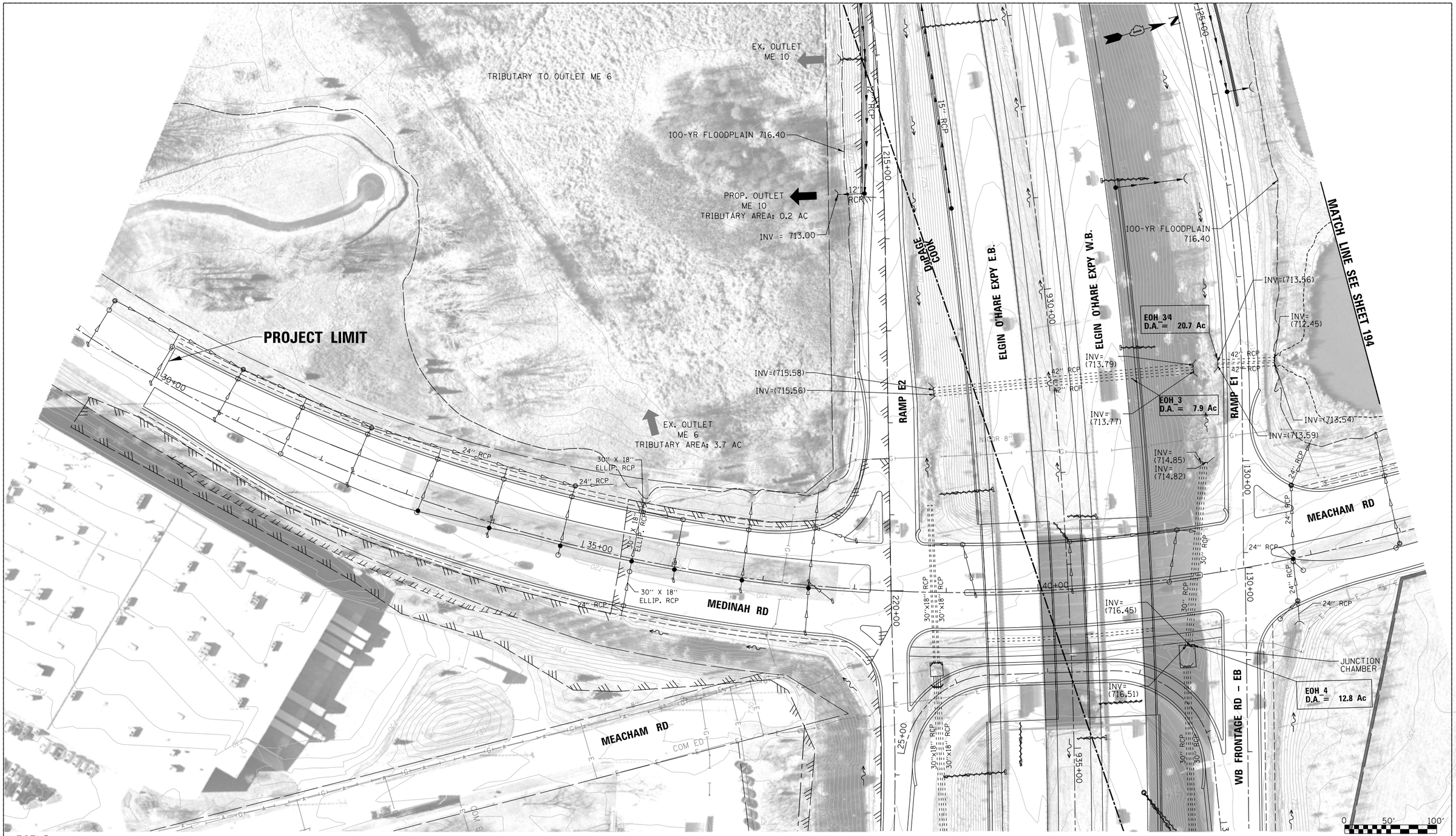
Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
WILLOW CREEK WATERSHED
BUSSE ROAD (IL 83)

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	192
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		



LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

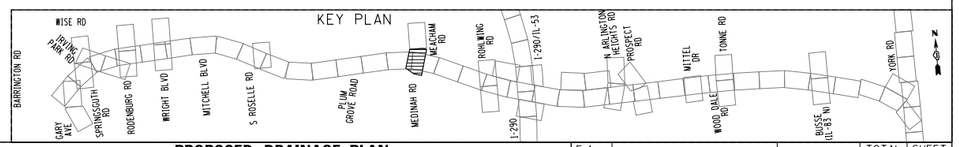
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
MEDINAH RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	193
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYCAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drain-MEDI_FullBuild.dgn
10:33:30 AM

SEE SHEET 17

MATCH LINE SEE SHEET 193

MEACHAM RD

45+00

50+00

55+00

MEACHAM RD

PROJECT LIMIT

100-YR FLOODPLAIN 716.40

GEORGIA DR

FLORIDA LN

VIRGINIA DR

CINDY LN

HAASE LN

HAAR LN

ROOSA LN

MEACHAM CREEK WATERSHED

VILLAGE OF ELK GROVE 12"

COM ED

NICOR 2"

24" RCP

15" RCP

12" RCP

SEE SHEET 18

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

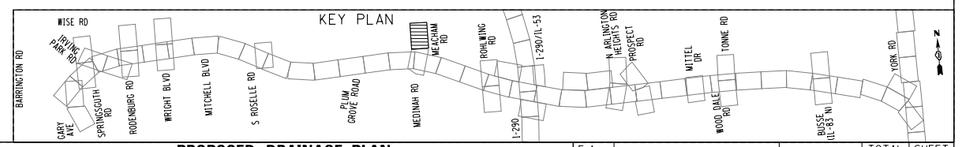
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
MEDINAH RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	194
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-MED2_FullBuild.dgn
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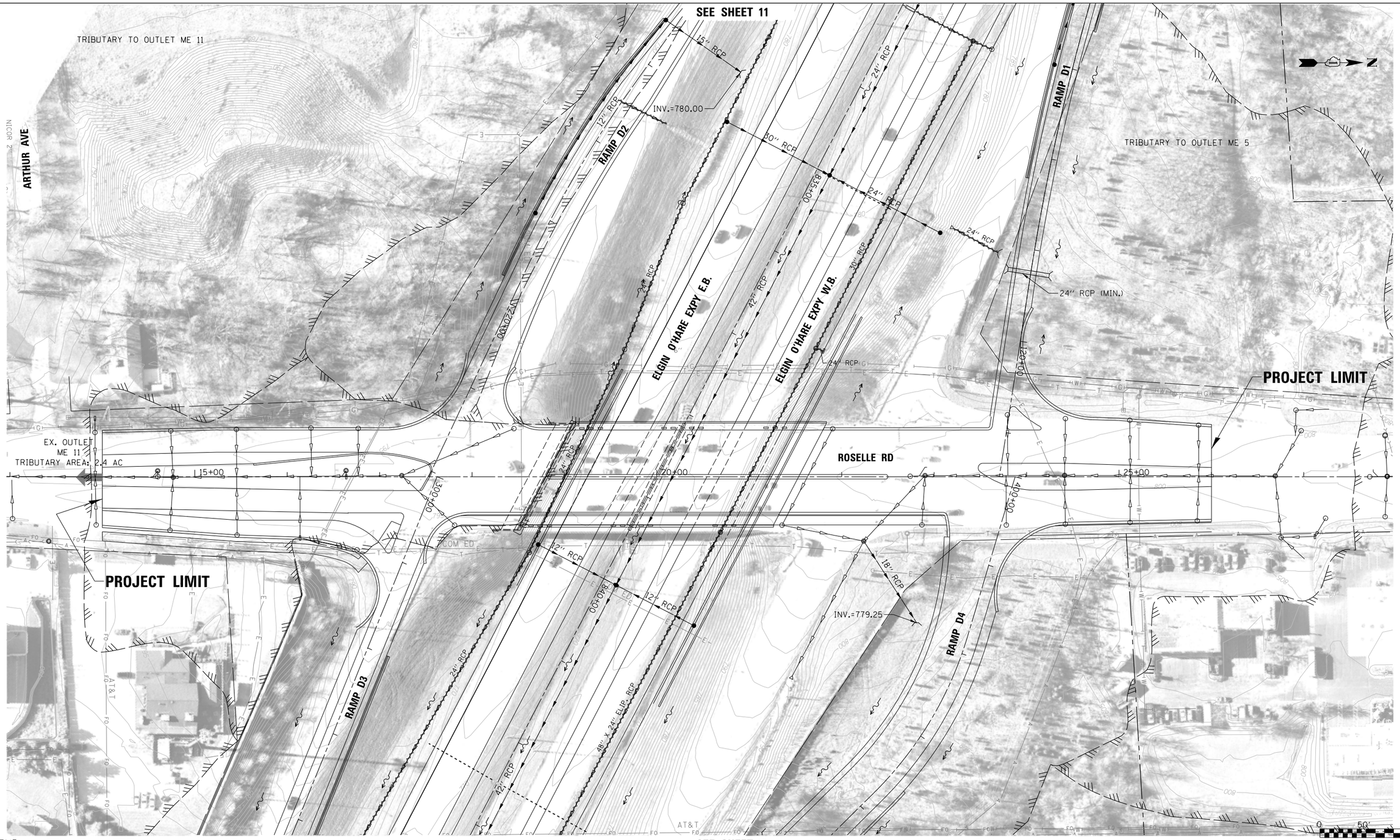


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

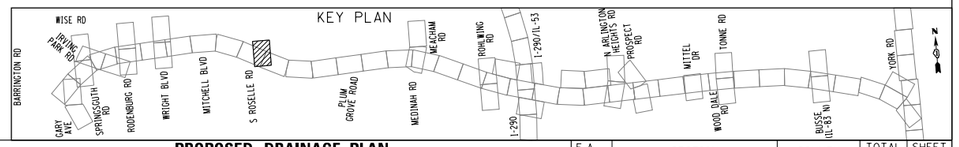
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
MEACHAM CREEK WATERSHED
ROSELLE RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	195
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-R052_FullBuild.dgn
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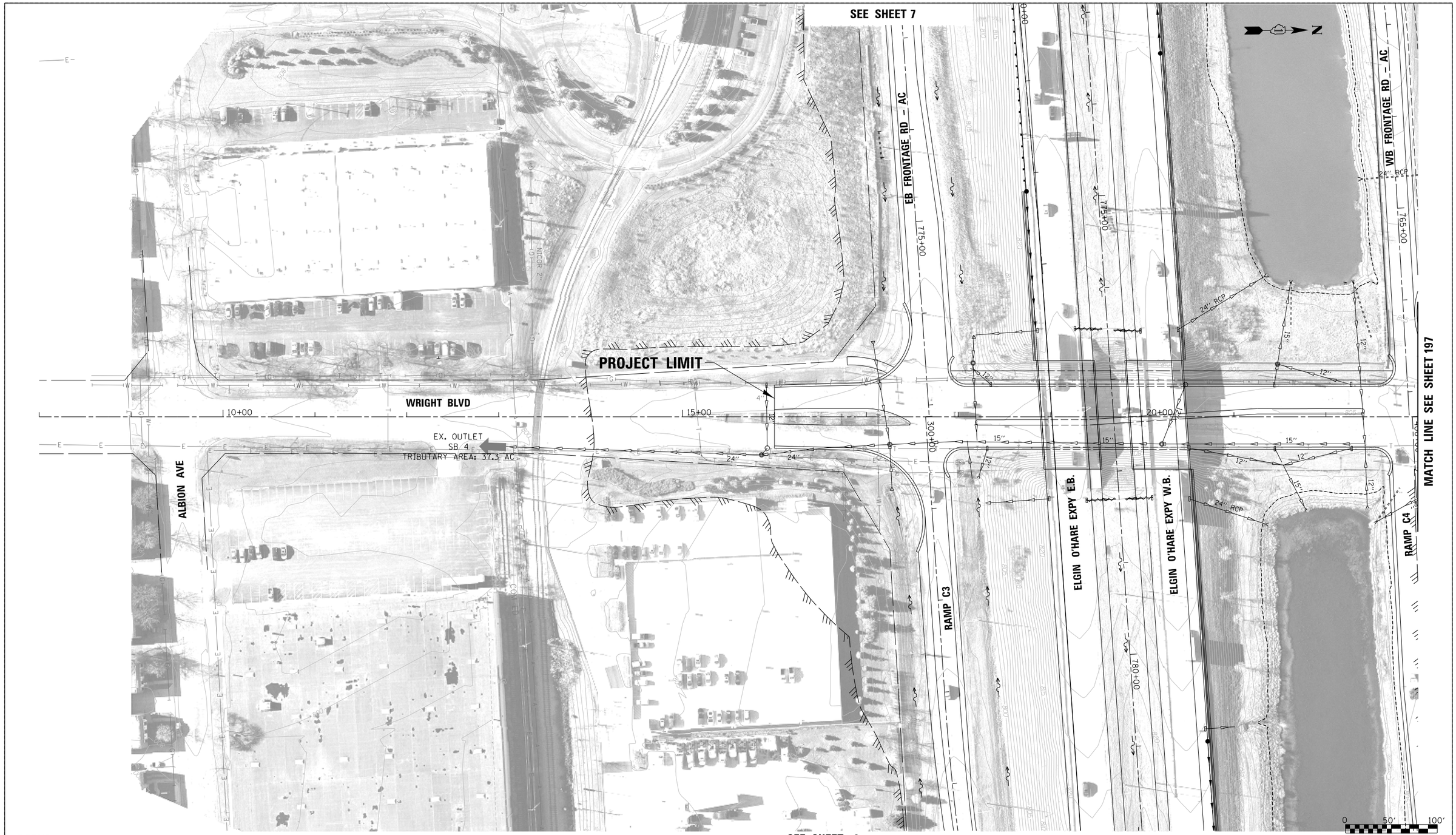


SEE SHEET 8

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT	TT TT TT T	
PERMANENT EASEMENT	7777777777	
STORM SEWER REMOVAL		

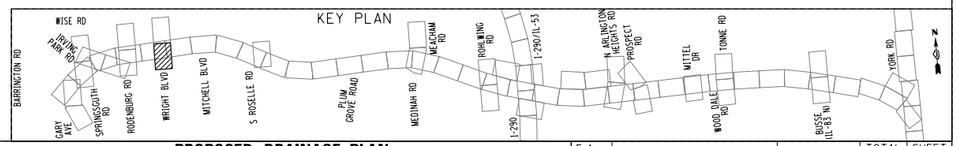
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SPRING BROOK WATERSHED
WRIGHT BLVD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	196
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYCAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WRTI_FullBuild.dgn
10:34:09 AM

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

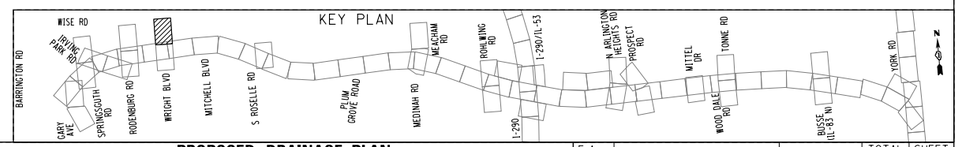
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

*MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SPRINGBROOK WATERSHED
WRIGHT BLVD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	197
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-WRT2_FullBuild.dgn
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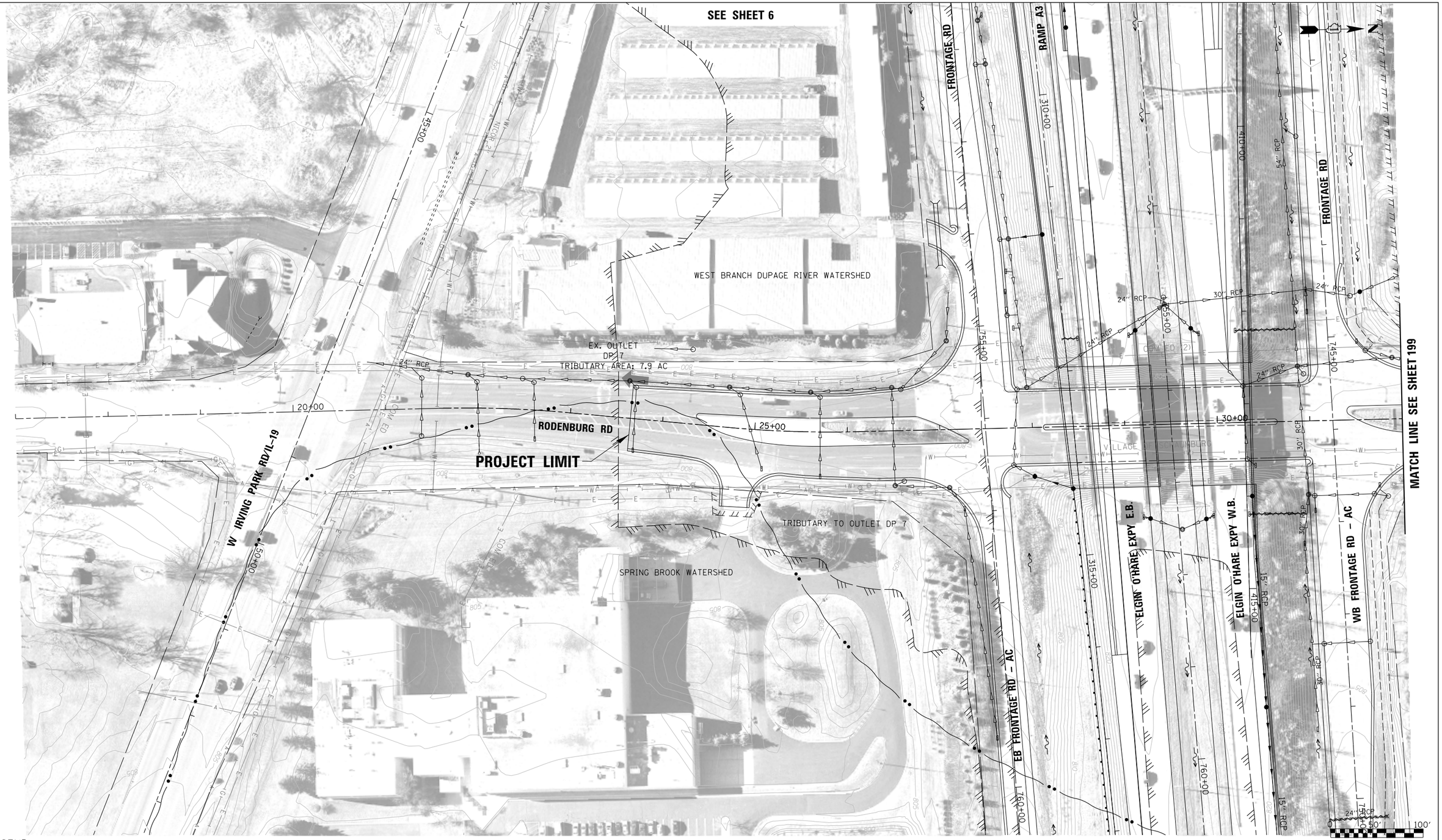


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	430+00	715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

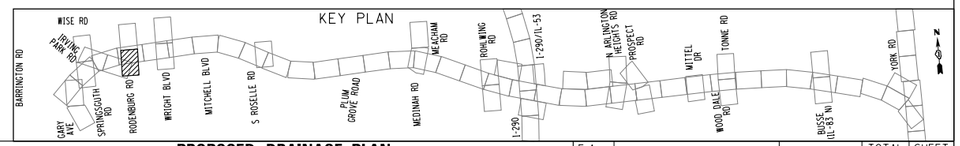
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SPRING BROOK WATERSHED / WEST BRANCH DUPAGE RIVER WATERSHED
RODENBURG RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	198
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-RDGI_FullBuild.dgn
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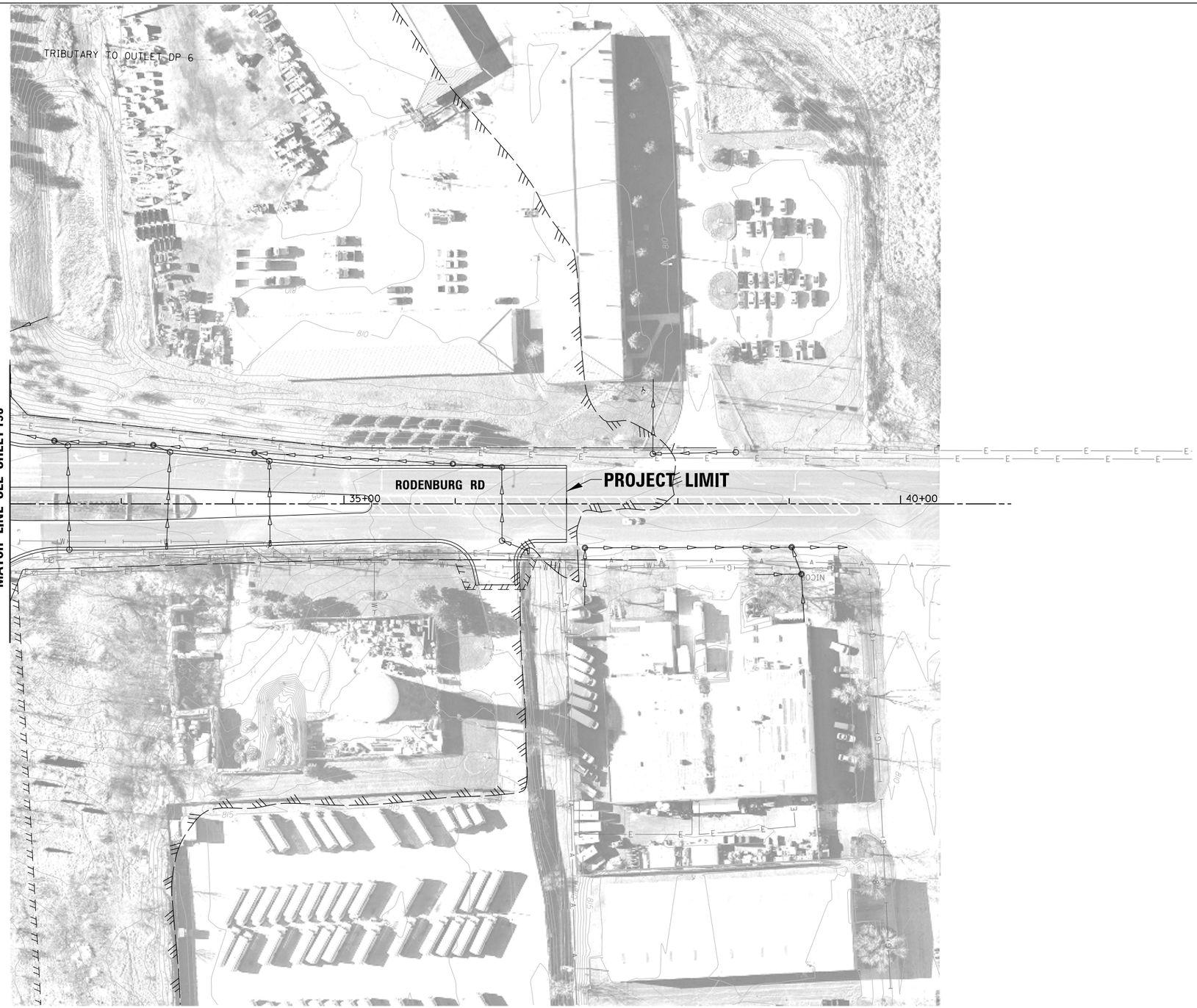


N

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

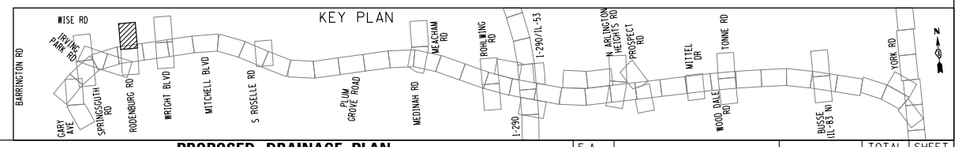
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
RODENBURG RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	199
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYD\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-RDG2_FullBuild.dgn
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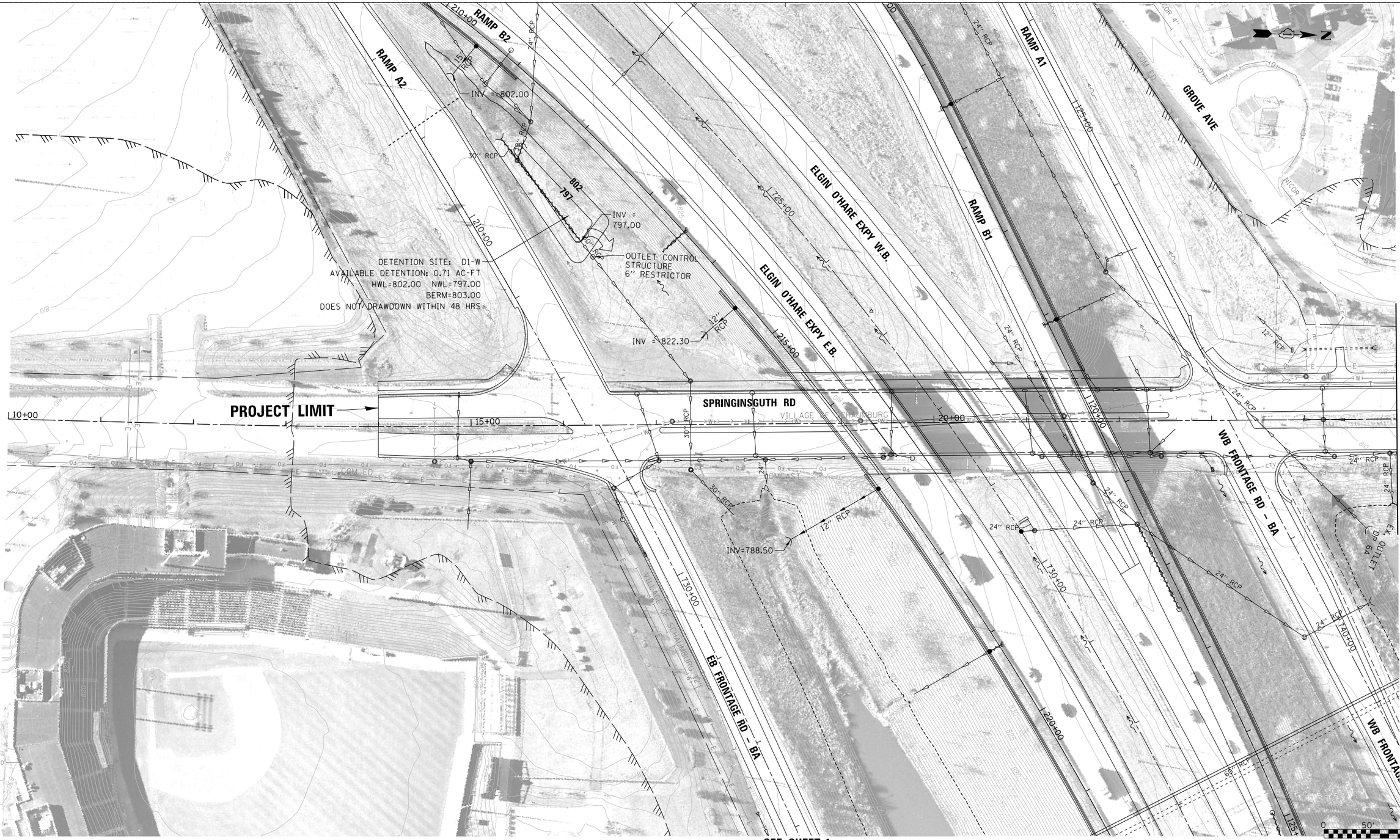


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

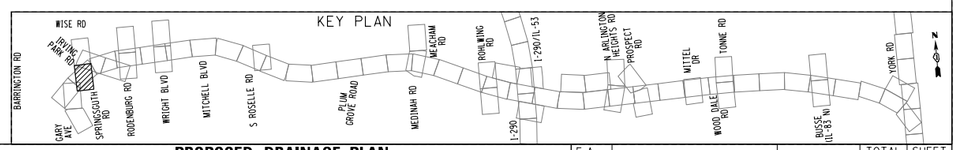
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
SPRINGSGUTH RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	200
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-SPSI_FullBuild.dgn
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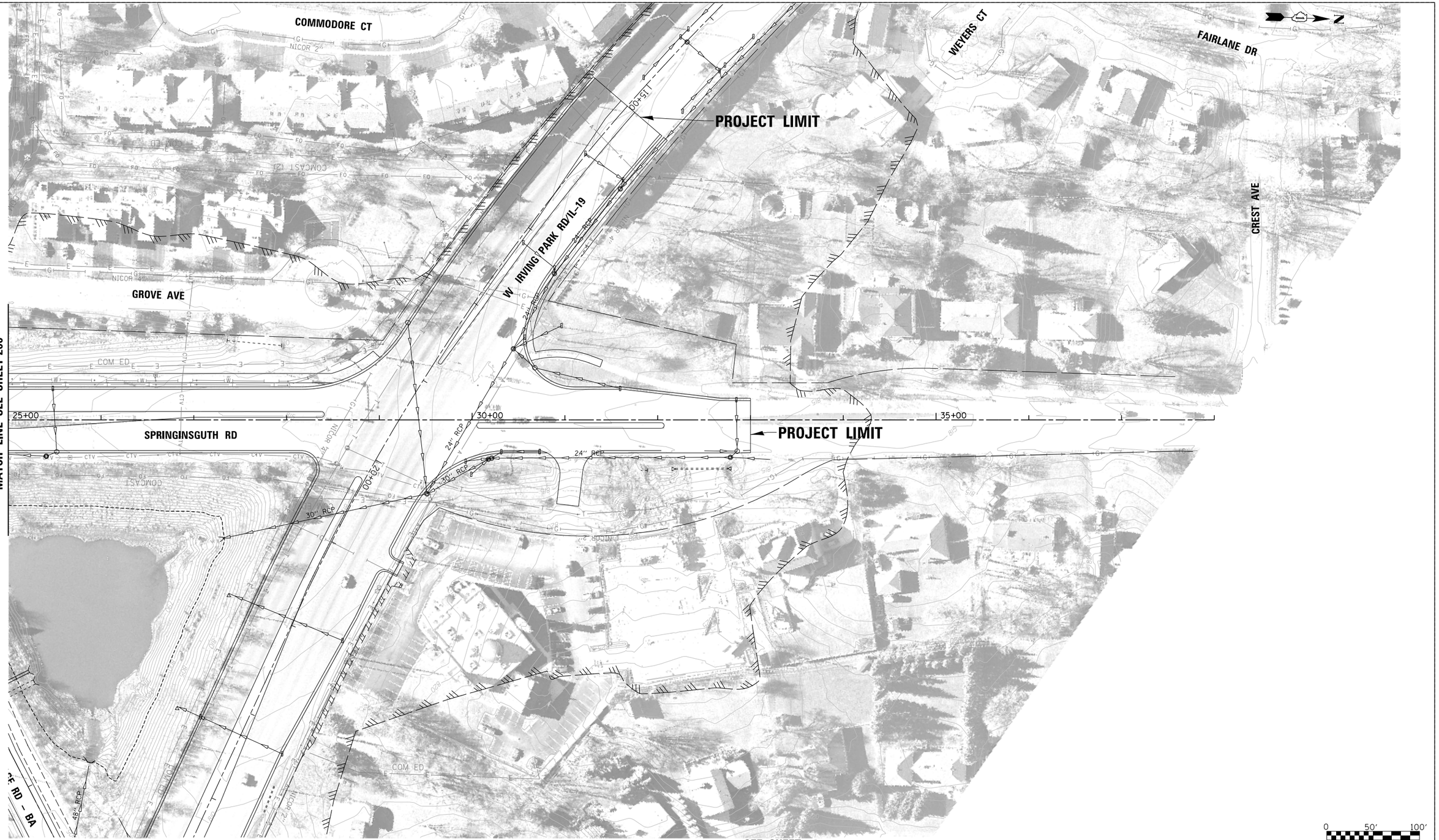


SEE SHEET 4

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+75+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		T T T T T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

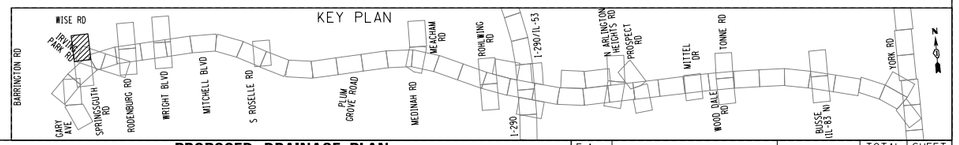
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
SPRINGSGUTH RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	201
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-SPS2_FullBuild.dgn
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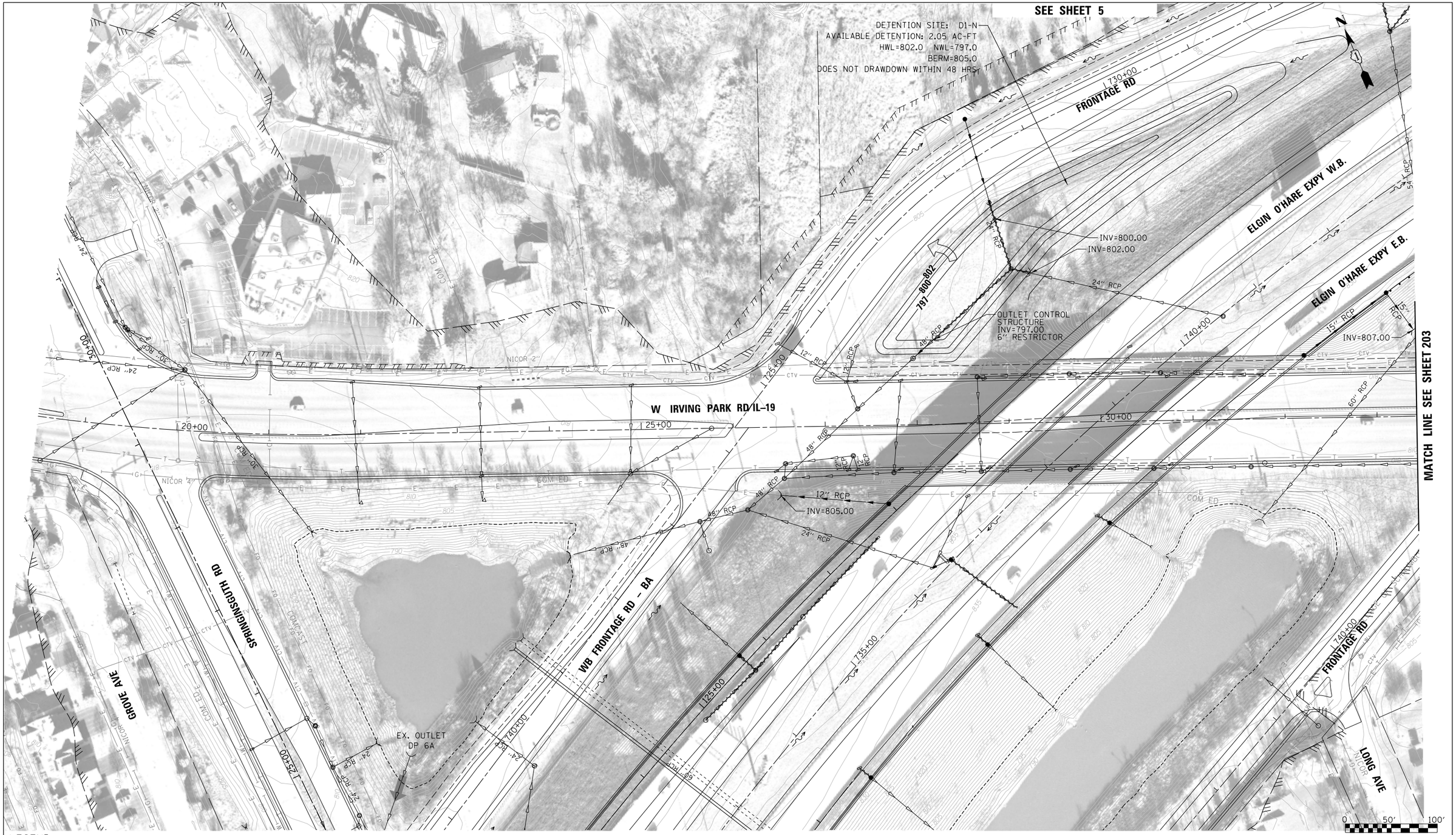


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		T T T T T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

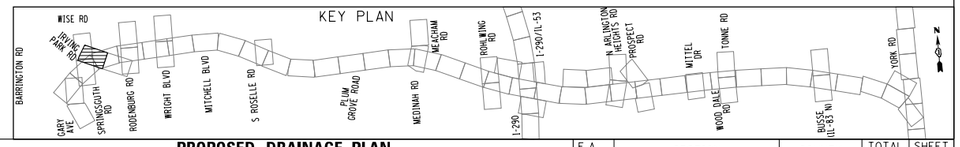
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
IL 19 (IRVING PARK ROAD)

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	202
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-IRV4_FullBuild.dgn
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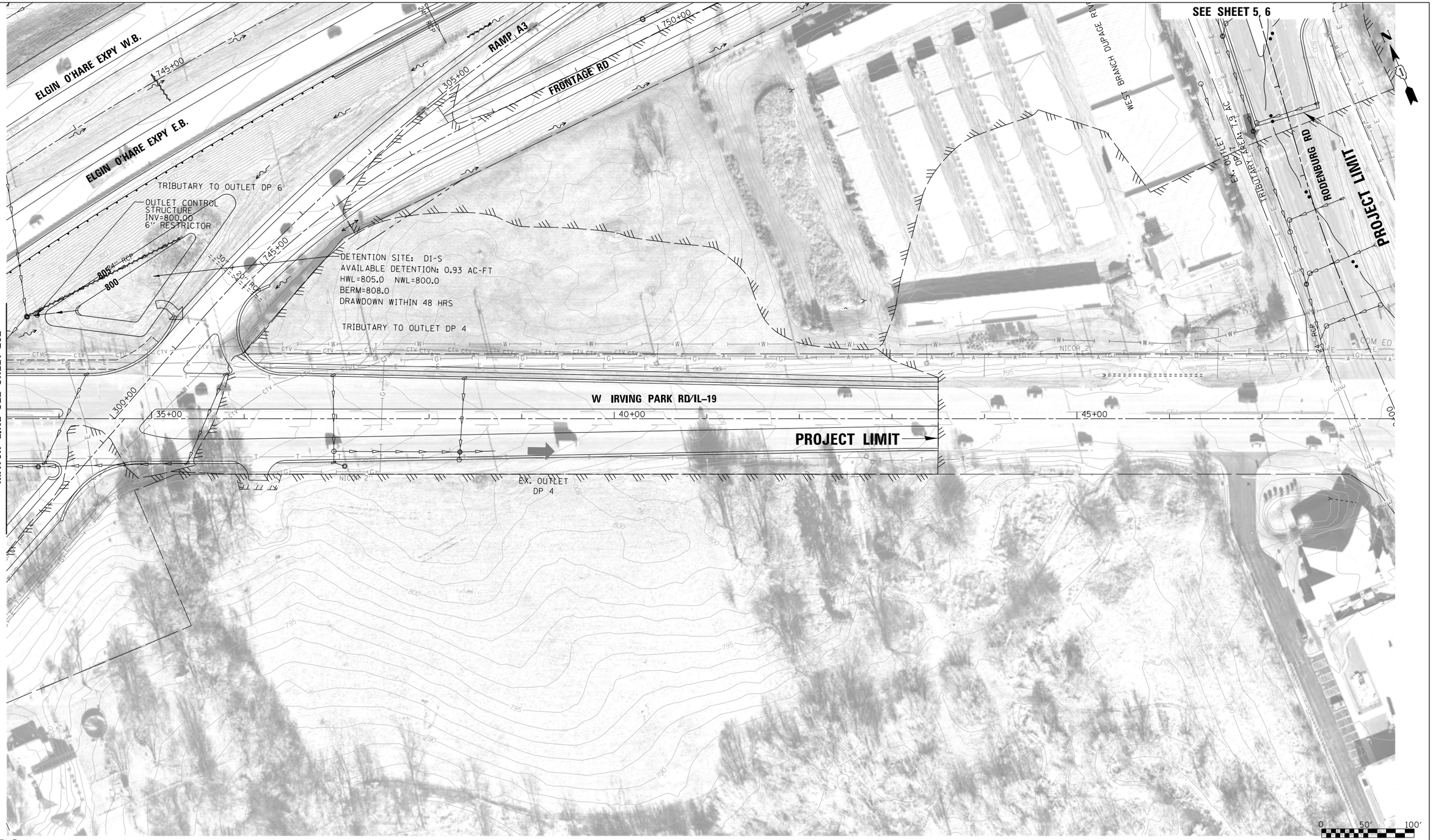


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

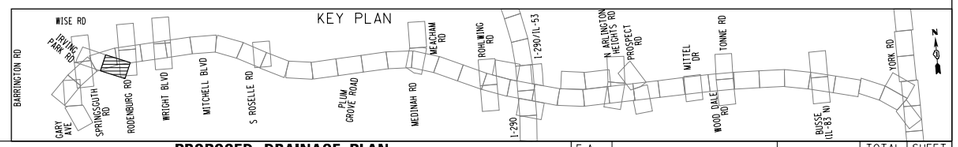
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY
- CONSTRUCT NEW DETENTION BASIN(S).

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
IL 19 (IRVING PARK ROAD)

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	203
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\H\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-IRV5_FullBuild.dgn
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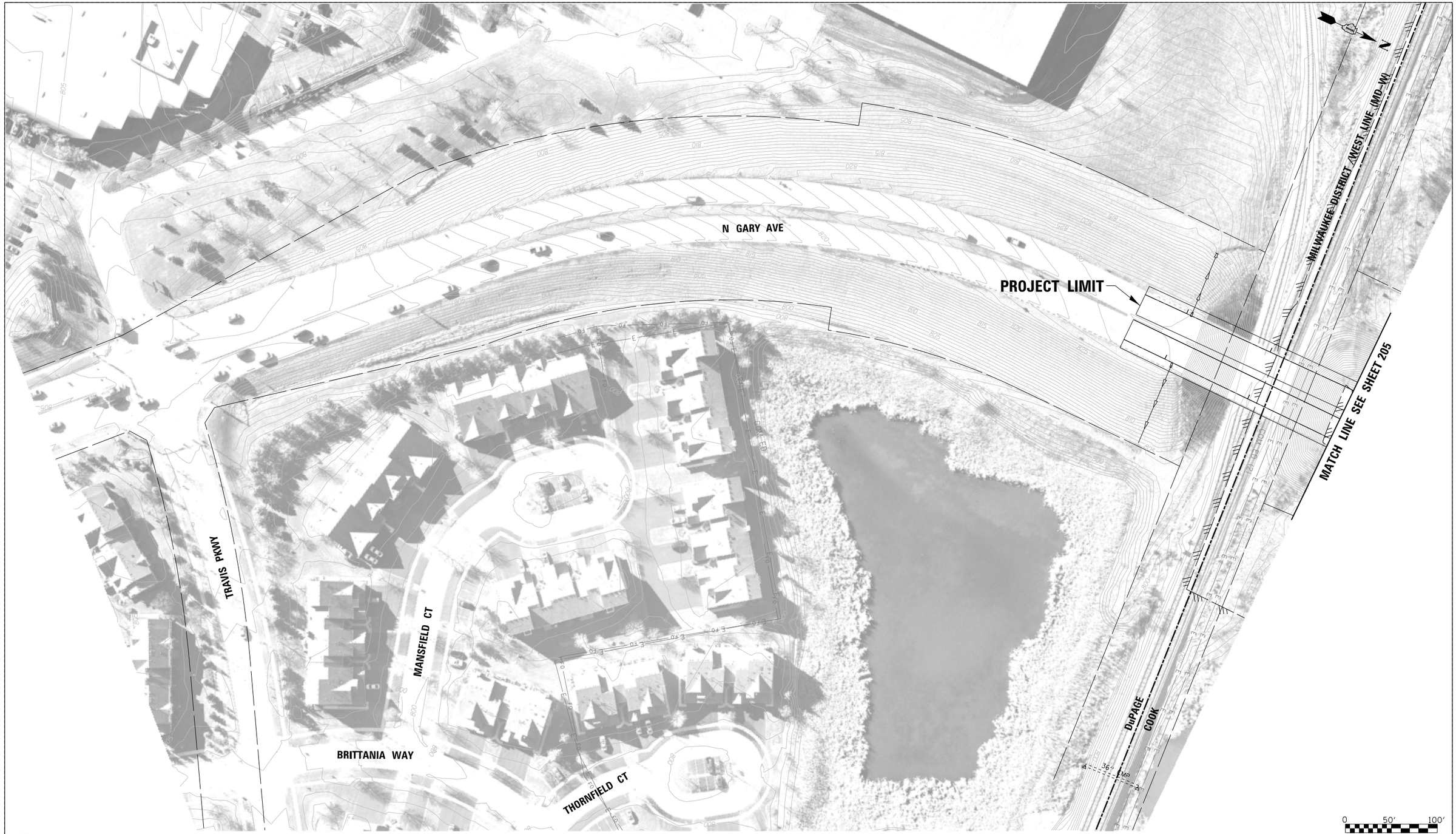


LEGEND:

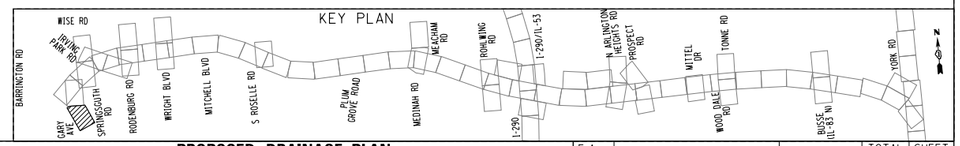
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
GARY AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	204
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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PROJECT LIMIT

SEE SHEET 3

EX. OUTLET
DP 6
TRIBUTARY AREA: 100.4 AC

EX. OUTLET
DP 8
TRIBUTARY AREA: 32.7 AC

PROJECT LIMIT

ELGIN O'HARE EXPY W.B.

ELGIN O'HARE EXPY E.B.

RAMP A1

RAMP A2

RAMP B1

RAMP B2

RAMP A2

TRIBUTARY TO OUTLET DP 6

TRIBUTARY TO OUTLET DP 8

GARY AVE S.B.

56" CULVERT

24" RCP

110+00

115+00

200+00

205+00

95+00

100+00

105+00

195+00

200+00

MATCH LINE SEE SHEET 204

EX. OUTLET
DP 5
TRIBUTARY AREA: 1.0 AC

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		T T T T T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

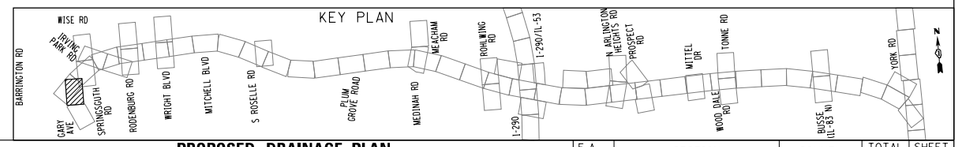
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
GARY AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	205
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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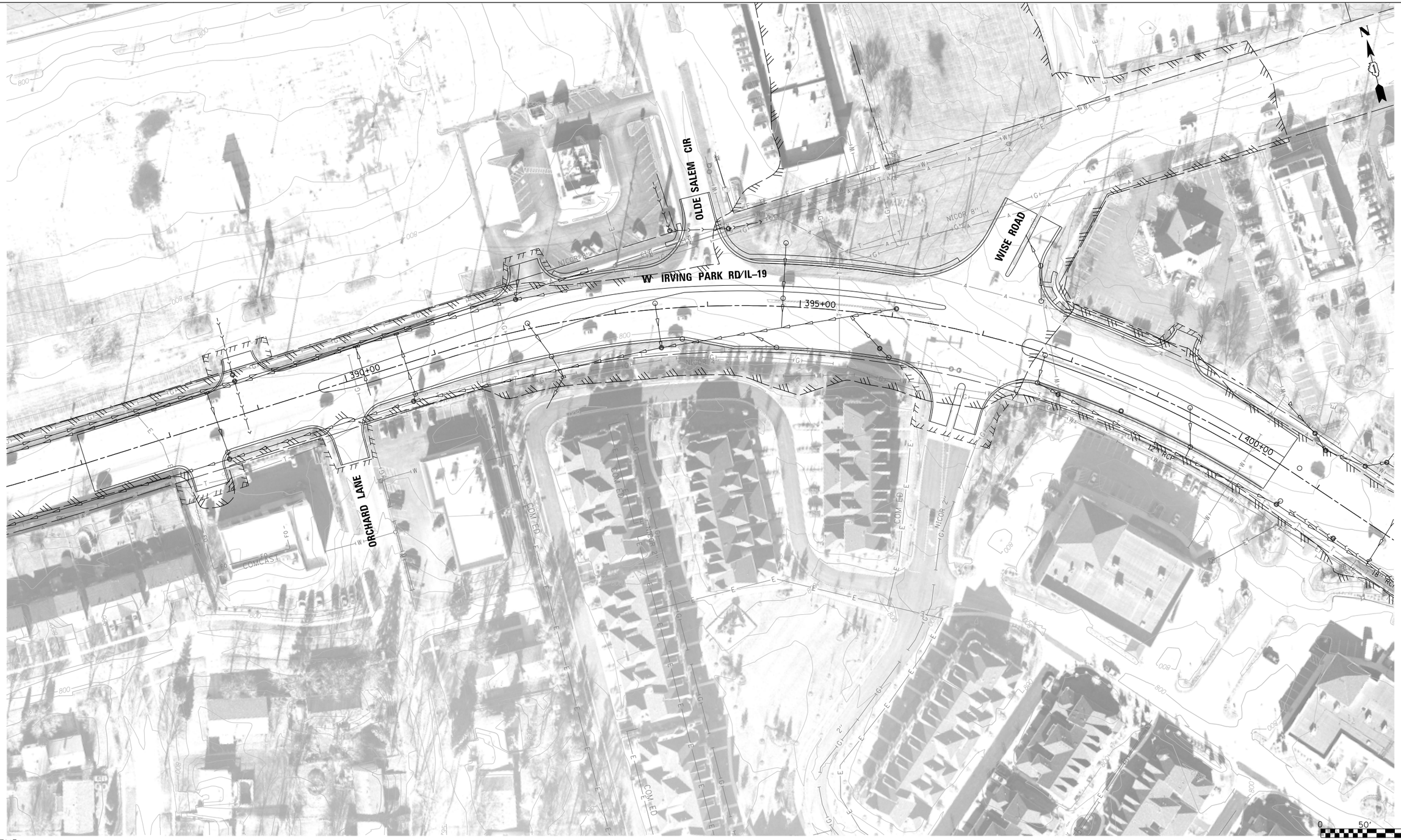


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

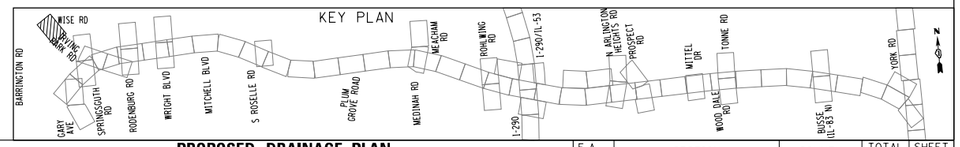
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
IRVING PARK RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	206
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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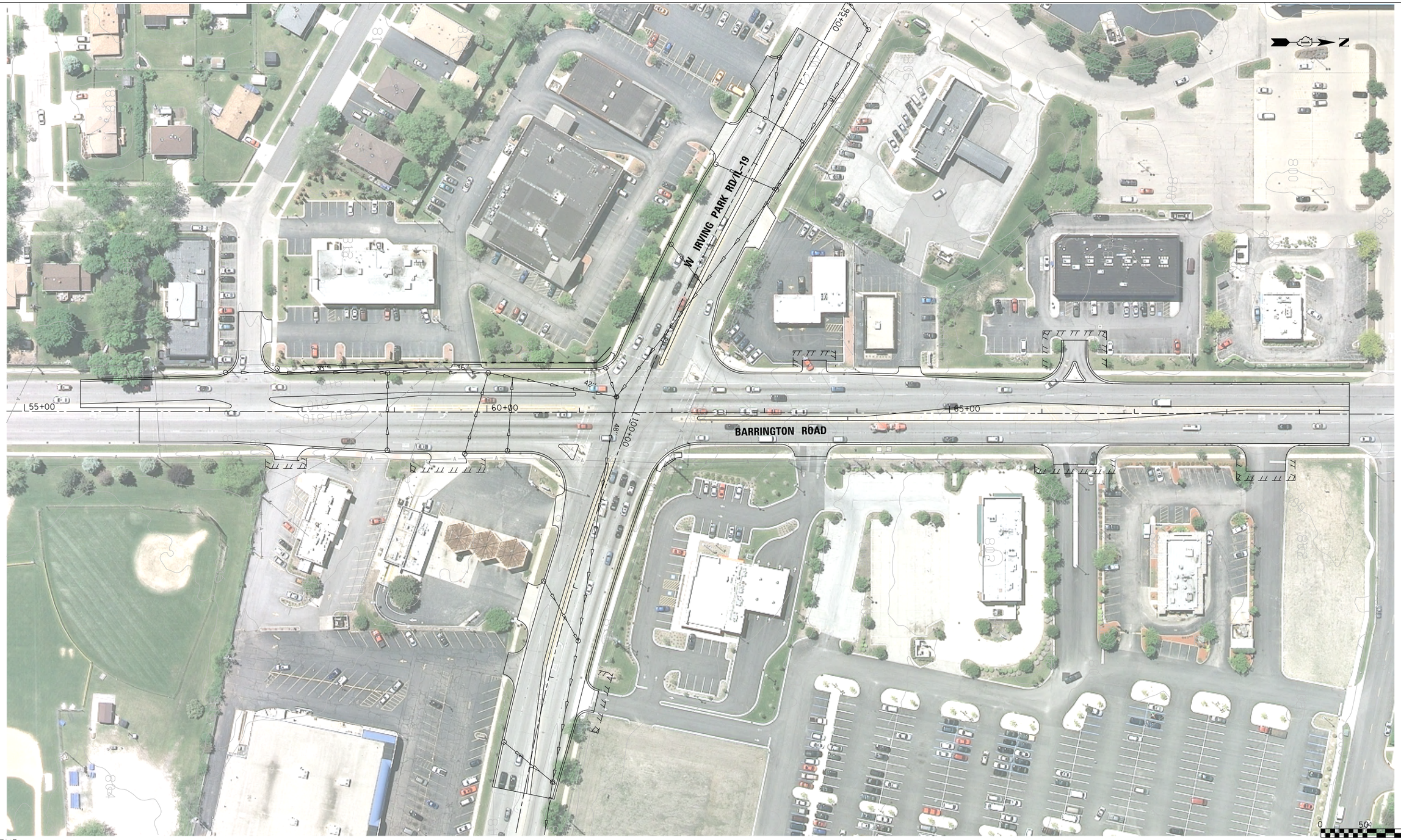


LEGEND:

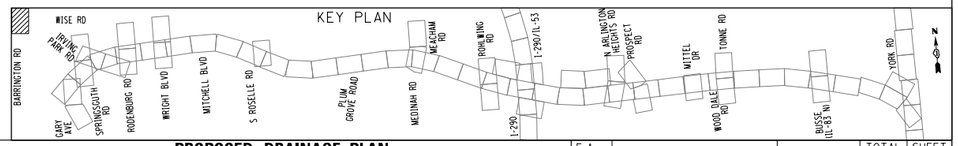
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WEST BRANCH DUPAGE RIVER WATERSHED
IRVING PARK RD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	207
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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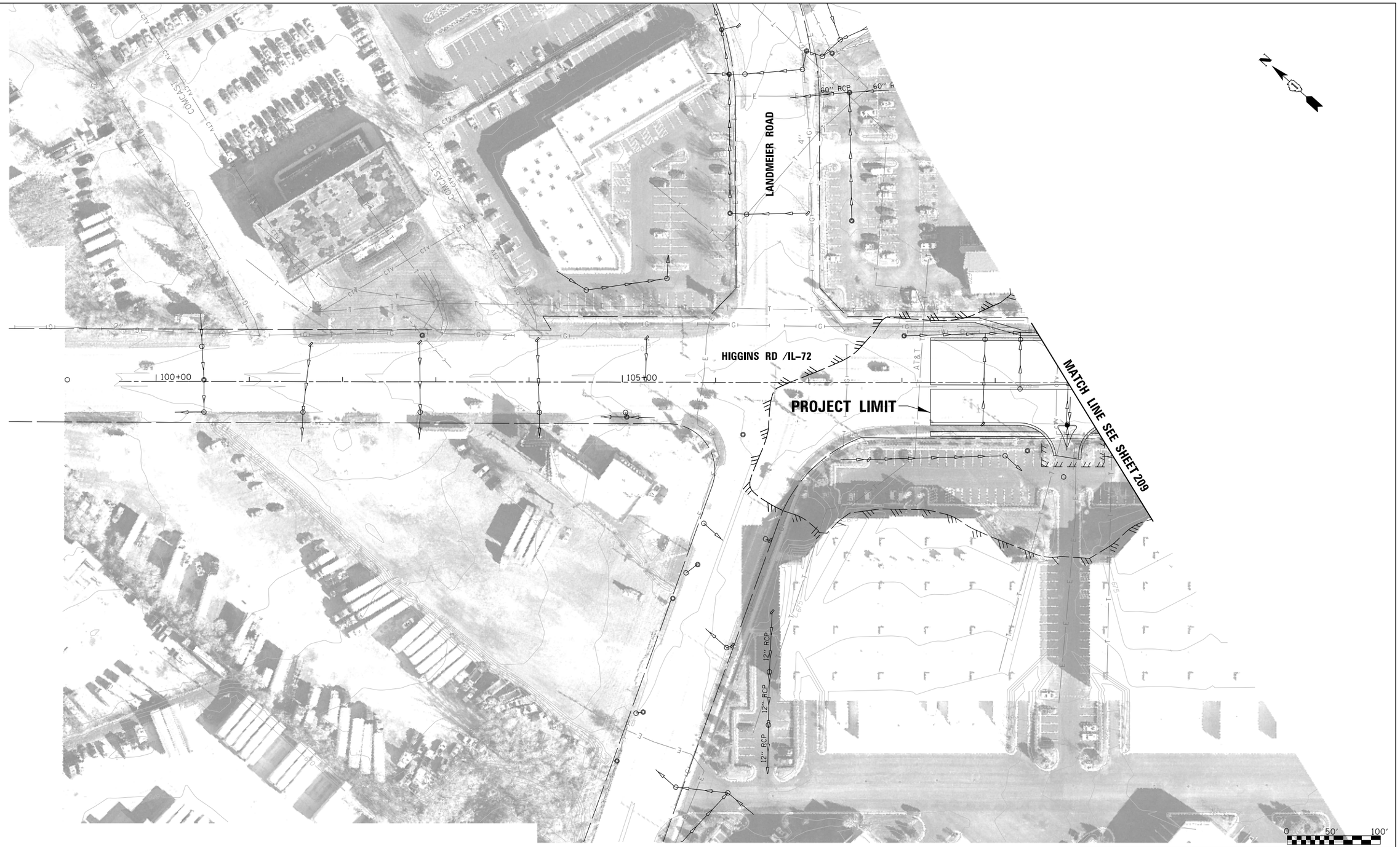


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

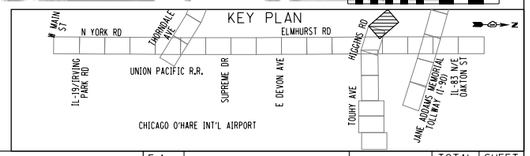
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
IL 72 (HIGGINS ROAD)

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	208
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-HIGI_FullBuild.dgn
10:38:22 AM

SEE SHEET 74

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

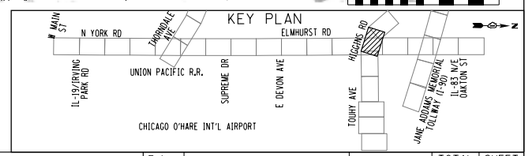
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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		DRAWN MYG	REVISED -	
	PLOT SCALE = 100'	CHECKED CW	REVISED -	
	PLOT DATE = 11/30/2012	DATE -	REVISED -	

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
IL 72 (HIGGINS ROAD) / TOUHY AVENUE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	209
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-HG2_FullBuild.dgn
10:38:35 AM

MATCH LINE SEE SHEET 209

MATCH LINE SEE SHEET 211

TOUHY AVE

125+00 130+00 135+00

BP AMOCO

BUCKEYE PARTNERS 372.8'

AT&T

COMCAST

TWO 6" BP LINES

36" RCP

15" RCP

18" VCP

(3) AT&T

0 50' 100'

N

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN

N MAIN ST · N YORK RD · ELMHURST RD · HANDALE AVE · HIGGINS RD · IL-19/IRVING PARK RD · UNION PACIFIC R.R. · SUPREME DR · E DEVON AVE · TOUHY AVE · JANE ADDAMS MEMORIAL TOLLWAY (I-90) · IL-83 W/E · OAKTON ST · CHICAGO O'HARE INT'L AIRPORT

FILE NAME = DIEOWB-sht-pr-drain-HIG3_FullBuild.dgn	USER NAME = mantas	DESIGNED MA	REVISED -
		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
TOUHY AVENUE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	210
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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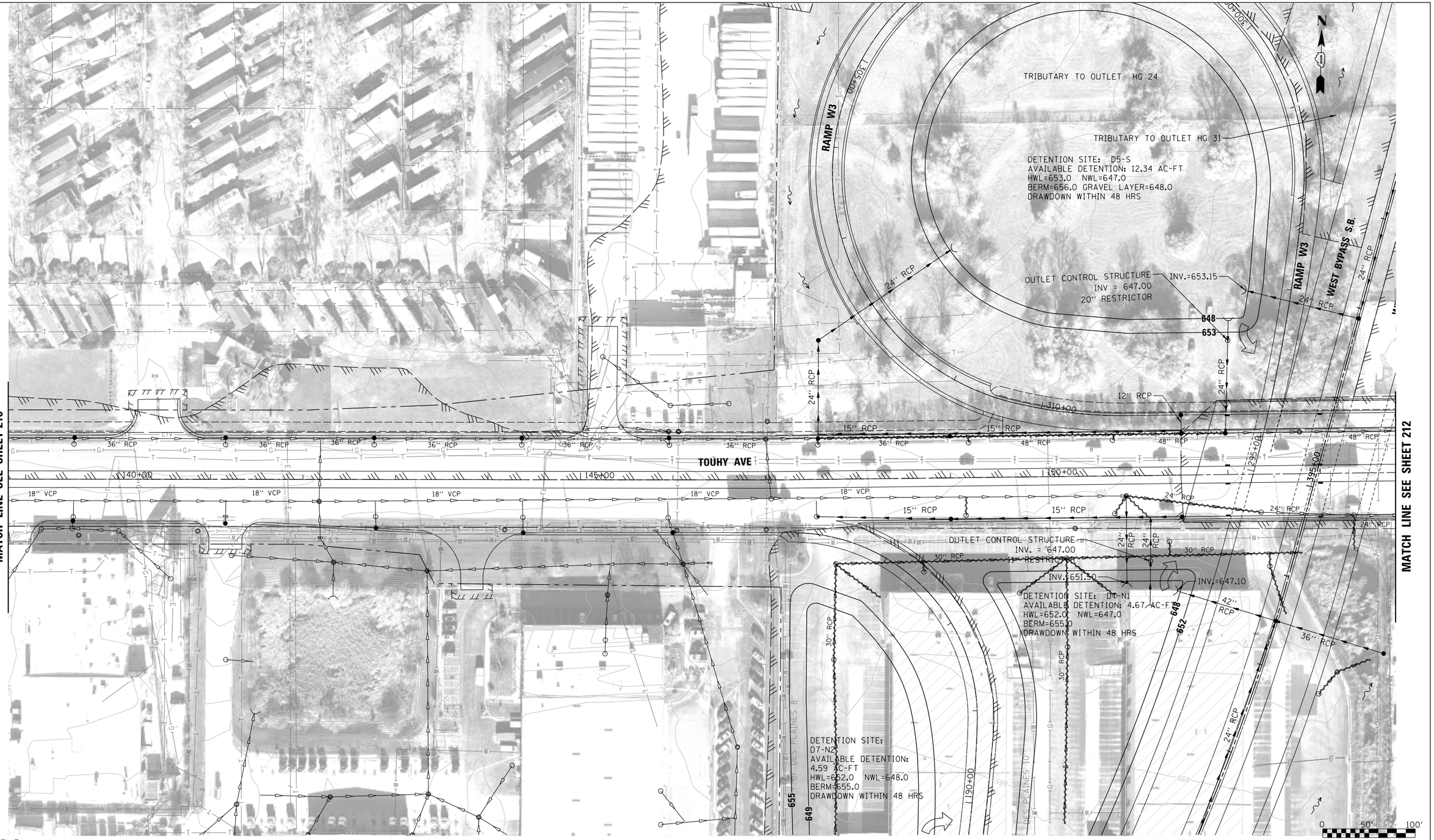


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

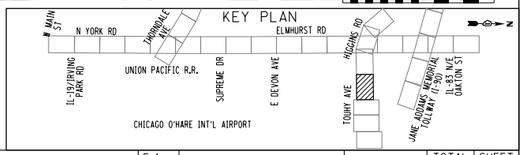
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
TOUHY AVENUE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	211
		CONTRACT NO.		
FULL BUILD		ILLINOIS	FED. AID PROJECT	

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-HIG4_FullBuild.dgn
10:39:00 AM

MATCH LINE SEE SHEET 211

RAMP W2

WEST BYPASS N.B.

WEST BYPASS S.B.

WEST BYPASS N.B.

295+00

155+00

400+00

160+00

24" RCP

15" RCP

12" RCP

48" RCP

30"

TOUHY AVE

TRIBUTARY TO OUTLET HG 24

TRIBUTARY TO OUTLET HG 32

PROP OUTLET HG 32

HIGGINS CREEK

FLOODWAY

100-YR FLOODPLAIN 647.51

TOUHY AVE OVER HIGGINS CREEK D.A. = 7.0 SQ MI

EX. OUTLET HG 24 TRIBUTARY AREA: 7.0 SQ MI

MATCH LINE SEE SHEET 213

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

KEY PLAN

N MAIN ST · N YORK RD · ARMITAGE AVE · ELMHURST RD · HIGGINS RD · IL-19/IRVING PARK RD · UNION PACIFIC R.R. · SUPREME DR · E DEVON AVE · TOUHY AVE · IL-83/MEACHAM MEMORIAL TOLL WAY · IL-83/N WOLF DAMEN ST · JANE ADDAMS MEMORIAL TOLL WAY · CHICAGO O'HARE INT'L AIRPORT

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
TOUHY AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	212
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-HG5_FullBuild.dgn
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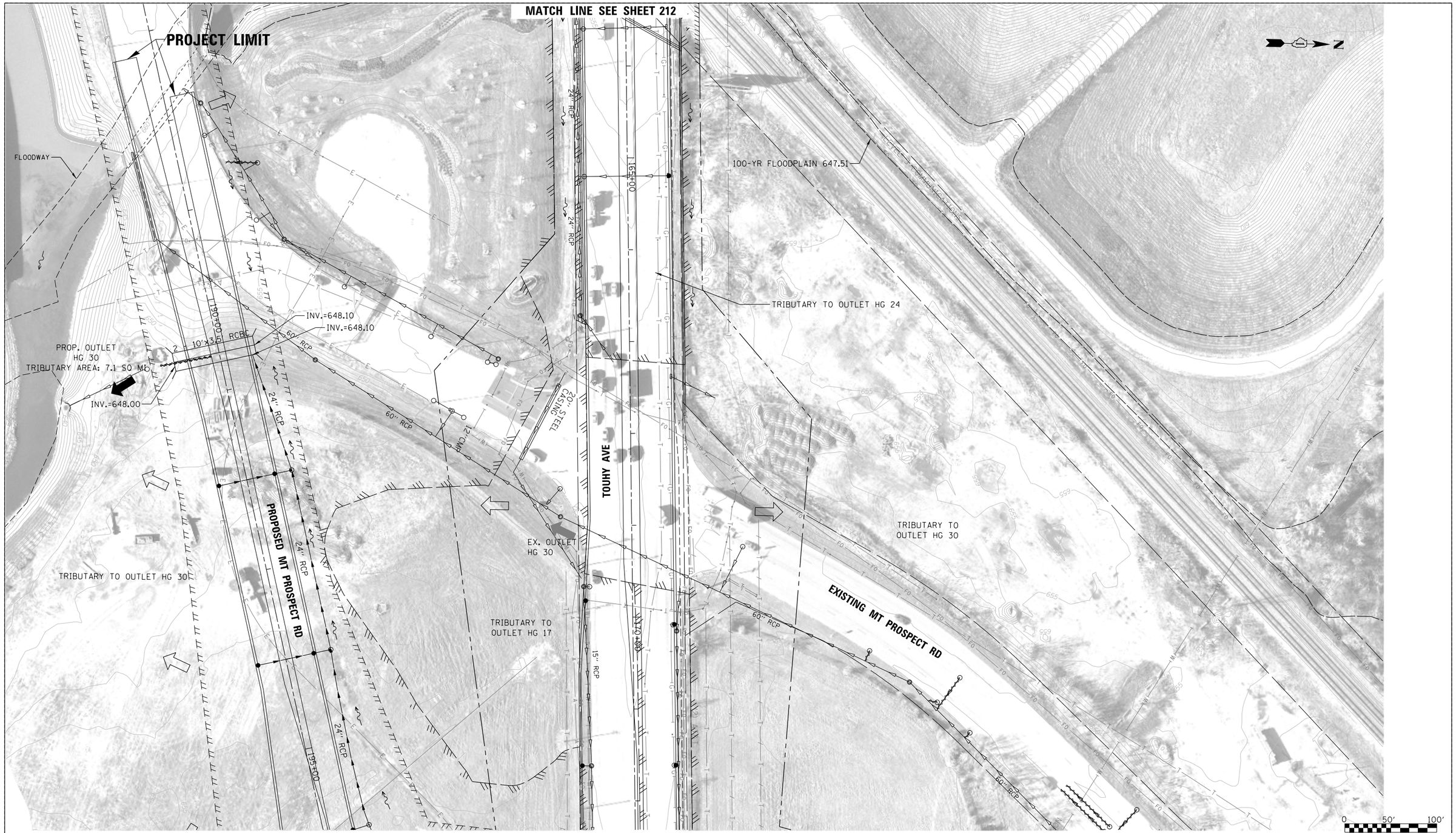


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+75+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

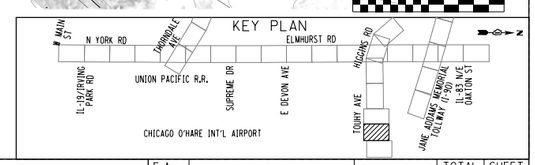
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
TOUHY AVENUE /MT. PROSPECT ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	213
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-HIG6_FullBuild.dgn
10:39:26 AM

LEGEND:

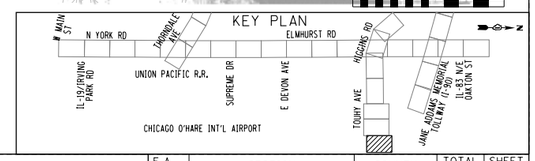
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+75+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

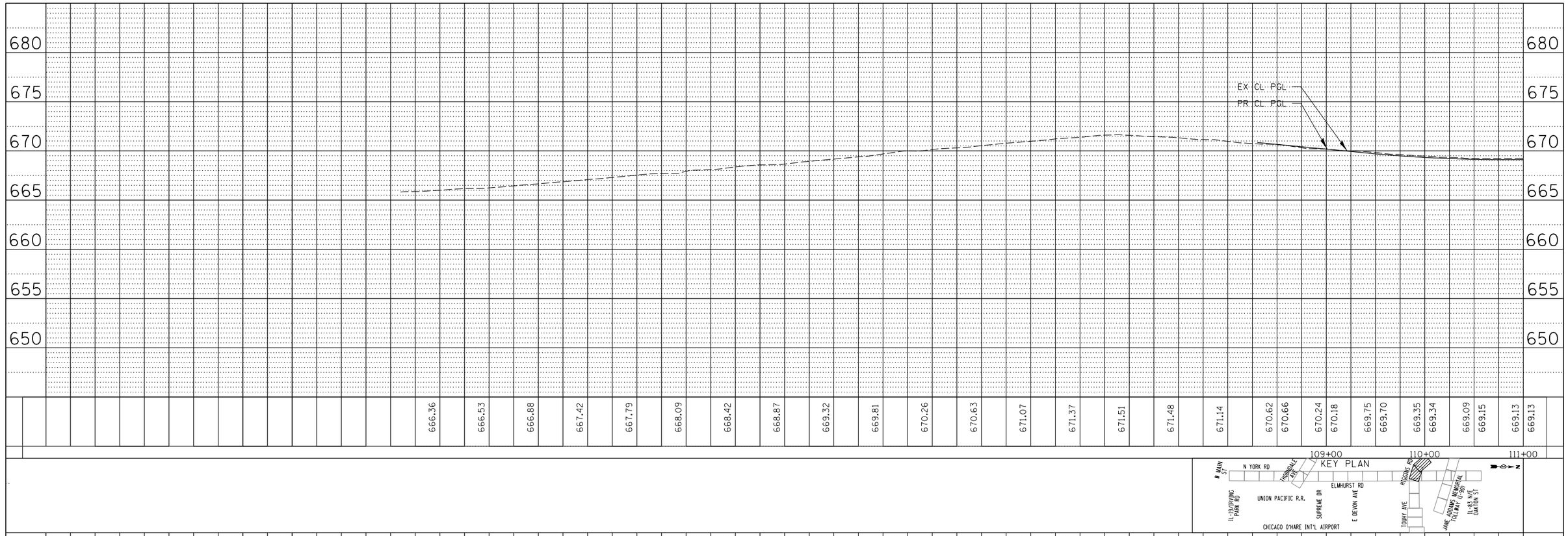

KEY PLAN
N MAIN ST
N YORK RD
ELMHURST RD
THORNDALE AVE
WILDWOOD AVE
UNION PACIFIC R.R.
SUPREME DR
E DEVON AVE
TOUHY AVE
JANE ADDAMS MEMORIAL TOLL WAY (I-90)
I-294/TRI-STATE TOLL WAY
I-90/TRI-STATE TOLL WAY

PLAN

BY	DATE

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

NOTE BOOK
NO.



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109+00 110+00 111+00

KEY PLAN

PROFILE

BY	DATE

SURVEYED
PLOTTED
CROSS SECTIONS CHECKED
ILM. NOTED
STRUCTURE NOTATNS CHKD

NOTE BOOK
NO.

669.13	669.13	669.29	669.27	669.52	669.47	669.71	669.67	669.78	669.87	669.90	670.07	670.18	670.27	670.46	670.47	670.59	670.65	670.70	670.68	670.94	670.53	670.09	670.20	669.55	669.72	669.09	669.22	668.61	668.72	668.09	668.22	667.59	667.72	667.22	667.22	666.71	666.72	666.12	666.22	665.58	665.72	665.16	665.22	664.82	664.72	664.24	664.22	663.71	663.72	663.21	663.22	662.78	662.72	662.31	662.22	661.79	661.72	661.28	661.25	660.70	660.75

111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00 120+00 121+00 122+00 123+00 124+00 125+00 126+00

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON CREEK WATERSHED
TOUHY AVENUE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	215
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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PLAN

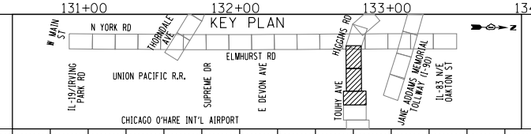
	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
R/T. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
NO.		

EX CL PGL
PR CL PGL

126+00	127+00	128+00	129+00	130+00	131+00	132+00	133+00	134+00	135+00	136+00	137+00	138+00	139+00	140+00	141+00
660.70	660.31	659.95	660.04	660.19	660.56	660.86	661.05	661.17	661.07	660.92	660.64	660.63	660.65	660.47	660.38
660.75	660.34	660.13	660.10	660.27	660.53	660.79	661.05	661.31	661.53	661.66	661.68	661.59	661.43	661.27	661.11

660.24	660.15	660.04	659.98	659.81	659.73	659.68	659.60	659.46	659.37	659.30	659.19	659.21	659.12	659.14
660.95	660.79	660.63	660.47	660.31	660.15	659.99	659.83	659.67	659.51	659.35	659.19	659.03	658.87	658.71

KEY PLAN



PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
DRAWN		
CHECKED		
BM. NOTED		
STRUCTURE NO(S)/TYS CHKD		
NOTE BOOK		
NO.		

EX CL PGL
PR CL PGL

℄ RAMP W2

℄ RAMP W3

℄ WEST BYPASS

141+00	142+00	143+00	144+00	145+00	146+00	147+00	148+00	149+00	150+00	151+00	152+00	153+00	154+00	155+00	156+00
659.14	659.09	658.74	658.69	658.67	658.53	658.56	658.49	658.40	658.25	657.90	657.58	657.34	656.91	656.42	656.11
658.71	658.52	658.75	659.24	659.99	661.00	662.27	663.67	665.07	666.47	667.87	669.27	670.67	672.07	673.47	674.87

655.85	655.42	655.23	654.85	654.54	654.13	653.70	653.32	653.05	652.73	652.46	652.30	652.18	652.19
676.27	677.67	679.07	680.47	681.87	683.27	684.59	685.72	686.66	687.42	687.99	688.37	688.67	688.97

FILE NAME =	USER NAME = mantas	DESIGNED MA/EB	REVISED -
DIEOWB-sht-pr-drainprof_HIG2_FullBuild.dgn		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON CREEK WATERSHED
TOUHY AVENUE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	216
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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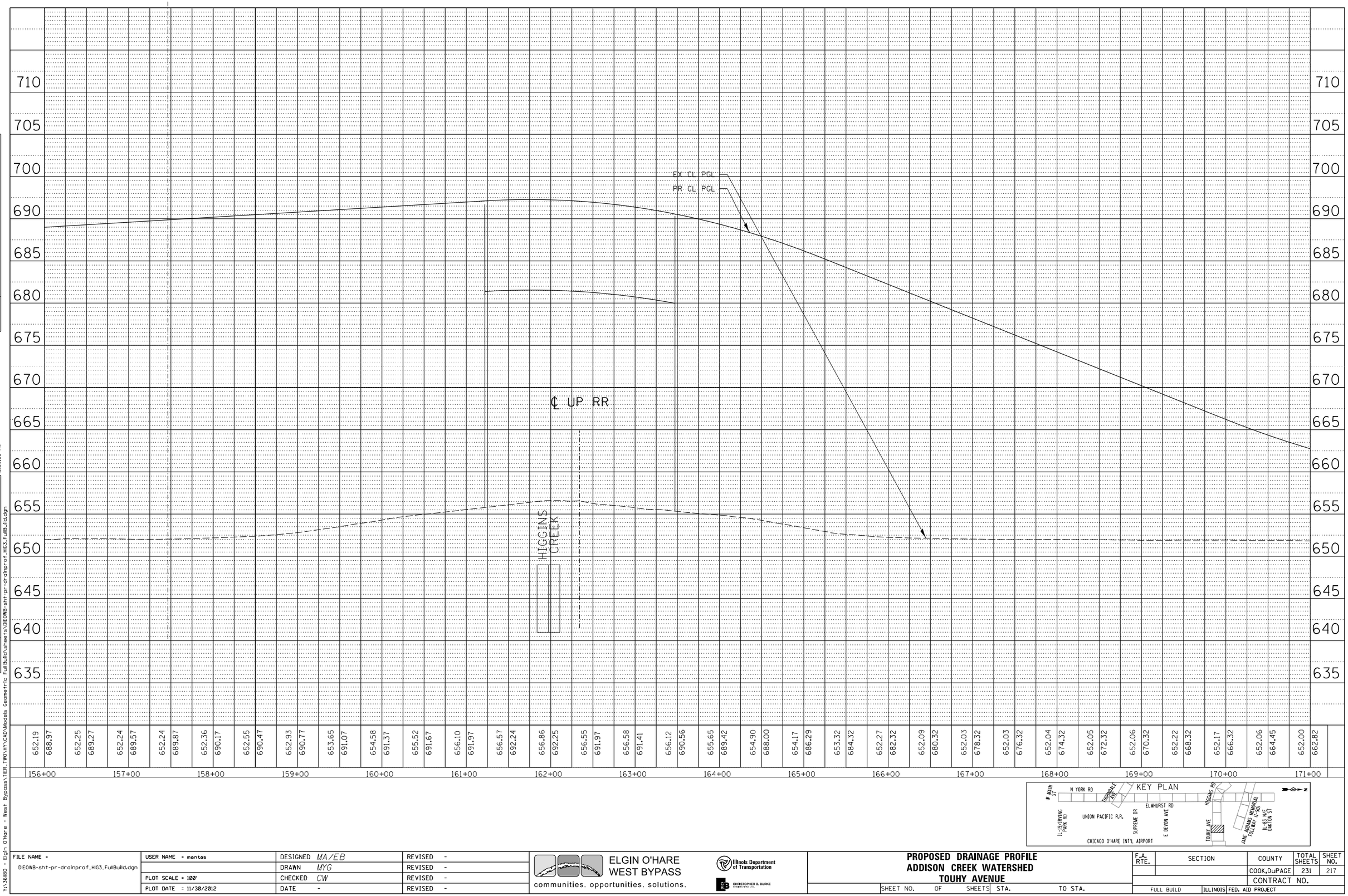

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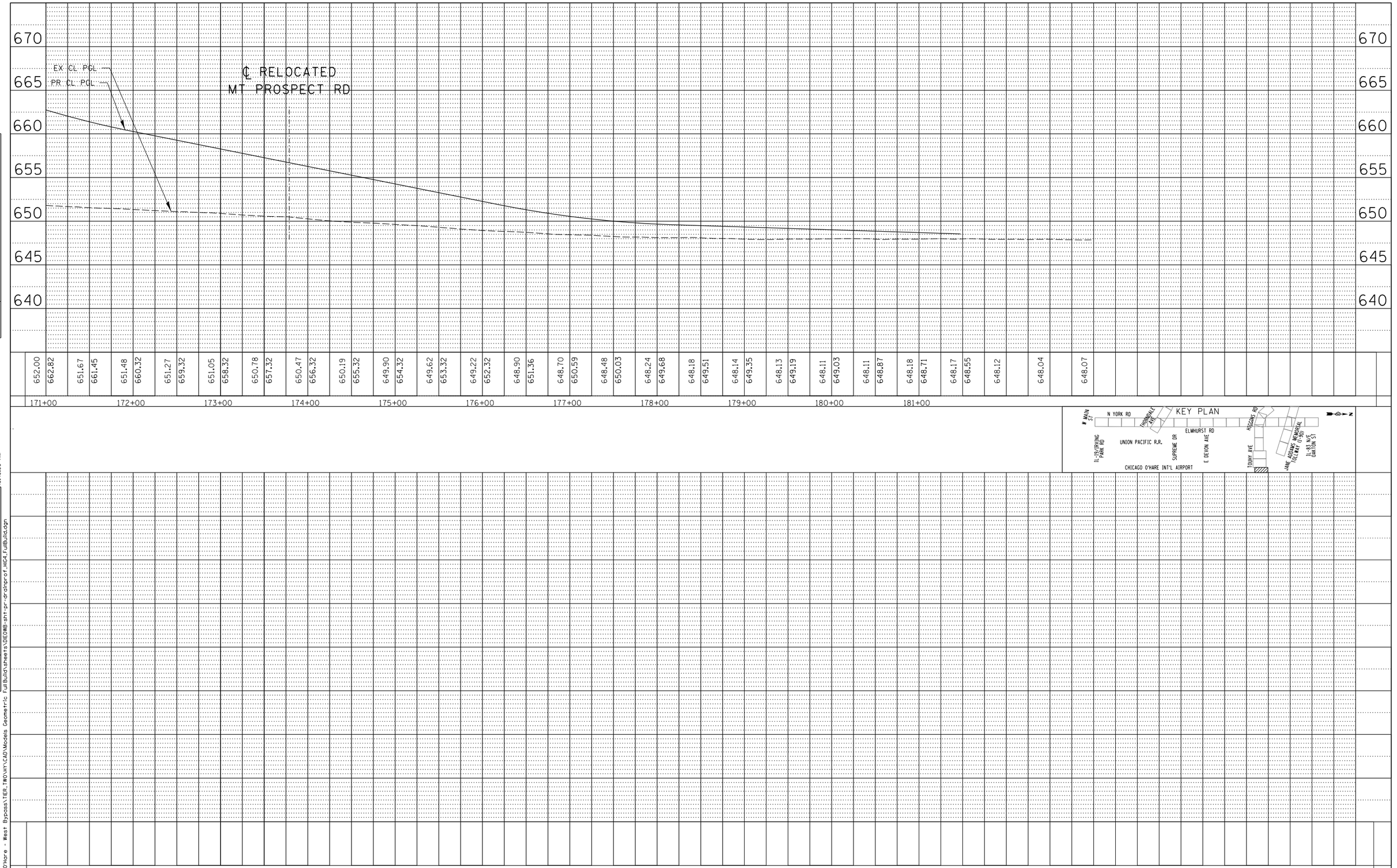

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK
NO.
R/T. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
SLM. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

10:40:00 AM
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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON CREEK WATERSHED
TOUHY AVENUE

SHEET NO. OF SHEETS STA. TO STA.

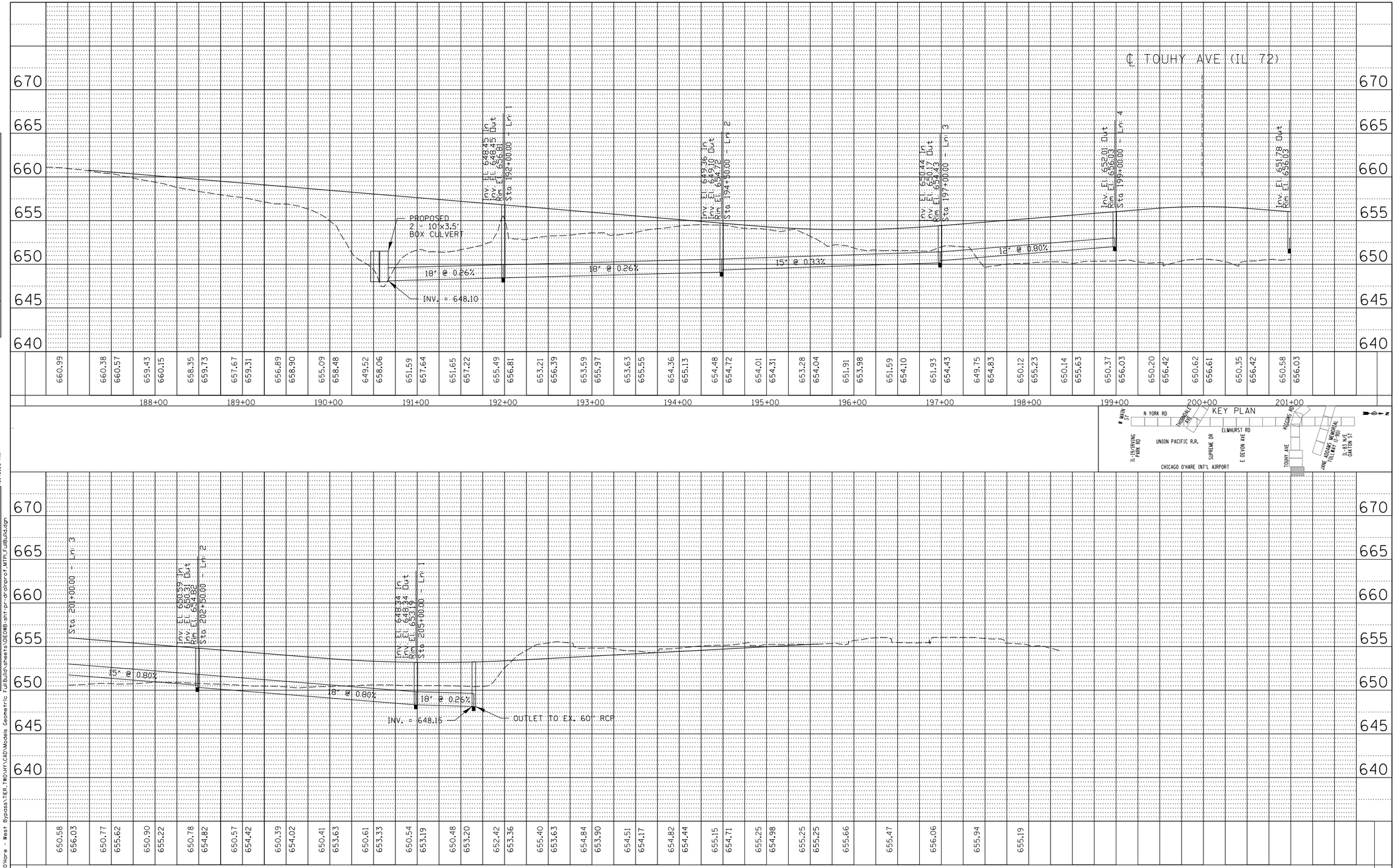
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	218
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

PLAN

BY	DATE
SURVEYED	
PLOTTED	
ADJUSTMENT CHECKED	
R/W CHECKED	
NOTE BOOK	
NO.	

PROFILE

BY	DATE
SURVEYED	
PLOTTED	
ADJUSTMENT CHECKED	
BML NOTED	
STRUCTURE NOTATNS CHKD	



KEY PLAN

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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

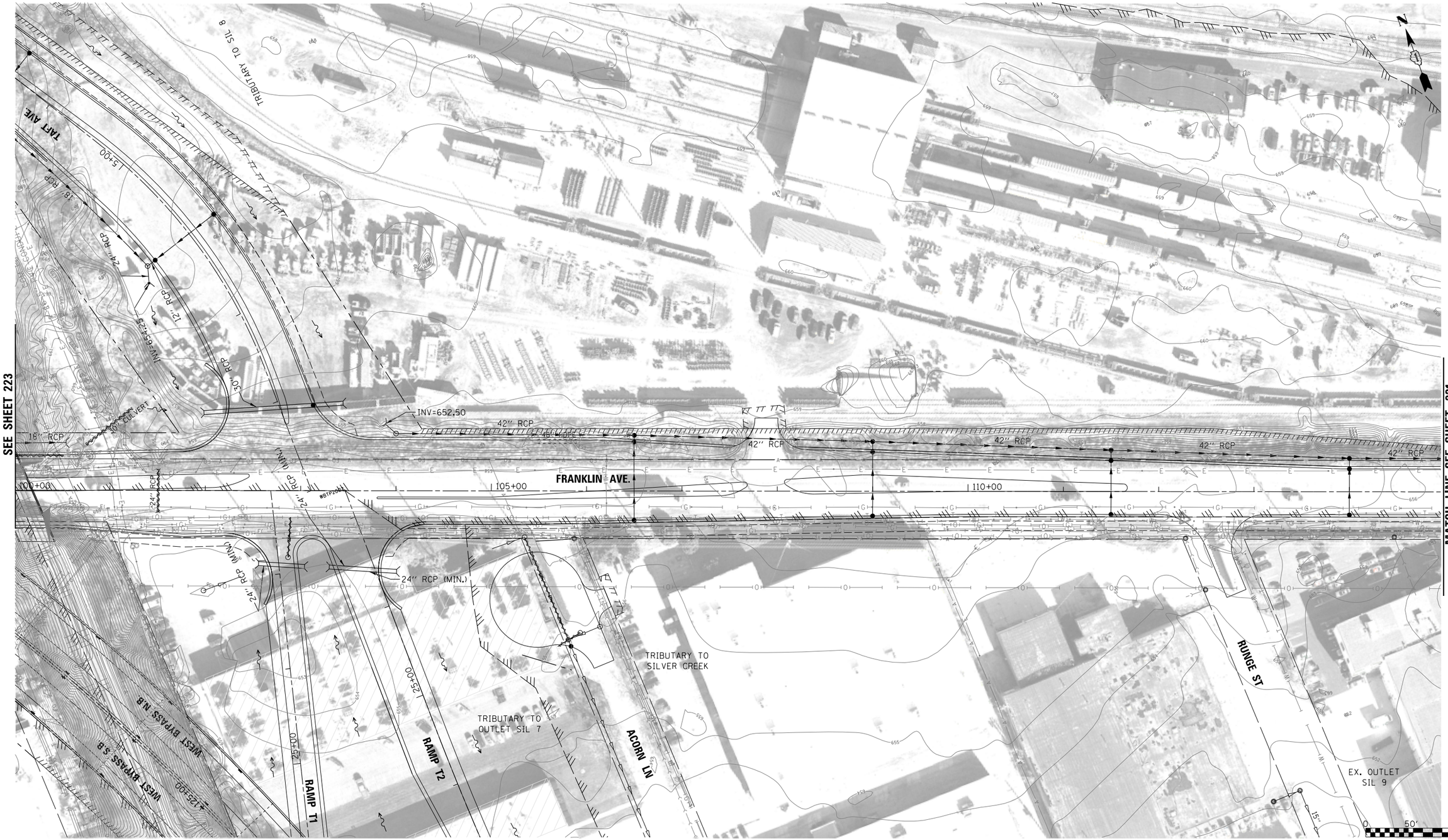
CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PROFILE
ADDISON CREEK WATERSHED
MT. PROSPECT ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	219
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYCAD\Models Geometric Full Build\sheets\DIEOWB-sht-pr-drainprof_MTPI_FullBuild.dgn 10:40:06 AM



LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

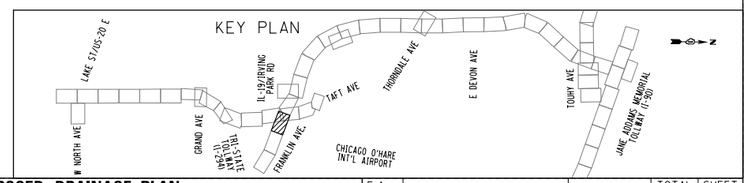
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
FRANKLIN AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	220
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-FRA3_FullBuild.dgn
10:48:18 AM

MATCH LINE SEE SHEET 220

MATCH LINE SEE SHEET 222

48" RCP

48" RCP

48" CMP

48" RCP

48" RCP

48" RCP

48" RCP

115+00

120+00

125+00

FRANKLIN AVE.

SANDRA ST

15"

EX. OUTLET
SIL 8

0 50' 100'

N

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

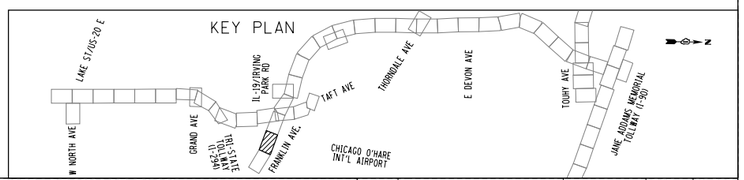
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
FRANKLIN AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	221
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HYCAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-FRA2_FullBuild.dgn
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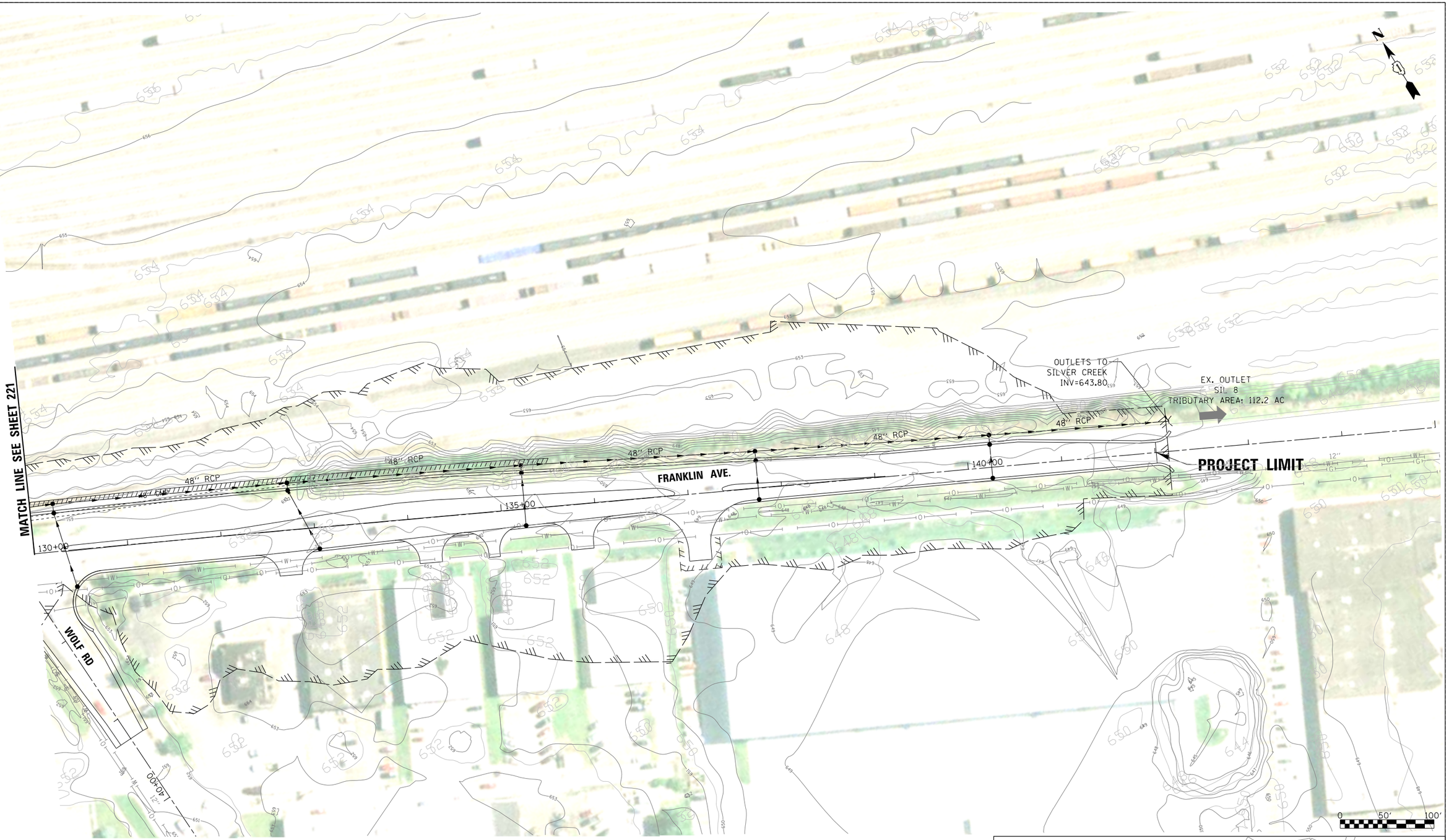


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

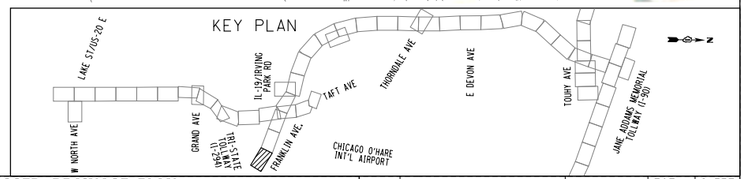
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
FRANKLIN AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	222
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-FRAI_FullBuild.dgn
10:41:42 AM

SEE SHEET 128

SEE SHEET 129

MATCH LINE SEE SHEET 224

WEST BYPASS S.B.

WEST BYPASS N.B.

FRANKLIN AVE.

UNION PACIFIC R.R.

TAFT AVE.

TRIBUTARY TO SIL 8

DETENTION SITE: D10-N
AVAILABLE DETENTION: 7.75 AC-FT
HWL=660.0 NWL=657.0
BERM=661.0 GRAVEL LAYER=658.0
DRAWDOWN WITHIN 48 HRS

RETAINING WALL

OUTLET CONTROL STRUCTURE
INV=657.00
12.5" RESTRICTOR

INV=654.25

INV=652.50

130+00

105+00

10+00

5+00

661

660

24" RCP

18" RCP

15" RCP

30" RCP

12" RCP

48" CMP

24" RCP (MIN.)

30" CULVERT

COM ED
16-5" PVC CONDUIT

SEE SHEET 222

0 50' 100'

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+430+00	1+715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

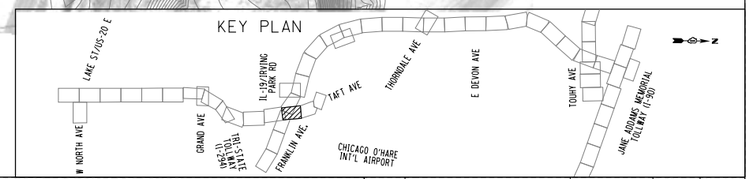
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
TAFT AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	223
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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10:45:56 AM

TRIBUTARY TO OUTLET SIL 8

TRIBUTARY TO OUTLET SIL 12

MATCH LINE SEE SHEET 224

MATCH LINE SEE SHEET 225

TAFT AVE.

15+00

20+00

18" CSP

36" CSP

36"

15" RCP

INV=659.70

INV=659.25

24" RCP (MIN.)

24" RCP

18" RCP

EX. OUTLET
SIL 12
TRIBUTARY AREA: 55.9 AC

TRIBUTARY TO SIL 12

TRIBUTARY TO OUTLET SIL 12

RELOCATED IRVING PARK ROAD BY OTHERS

0 50' 100'

KEY PLAN

LAKE ST/US-20 E
N NORTH AVE
GRAND AVE
IL-19/IRVING PARK RD
TRI-STATE TOLLWAY (I-294)
FRANKLIN AVE.
TAFT AVE
THORNDALE AVE
E DEVON AVE
TOUHY AVE
JANE ADDAMS MEMORIAL TOLLWAY (I-90)
CHICAGO O'HARE INT'L AIRPORT

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

Y:\36180 - Elgin O'Hare - West Bypass\TIER TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-TAF2_FullBuild.dgn
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		DRAWN MYG	REVISED -
	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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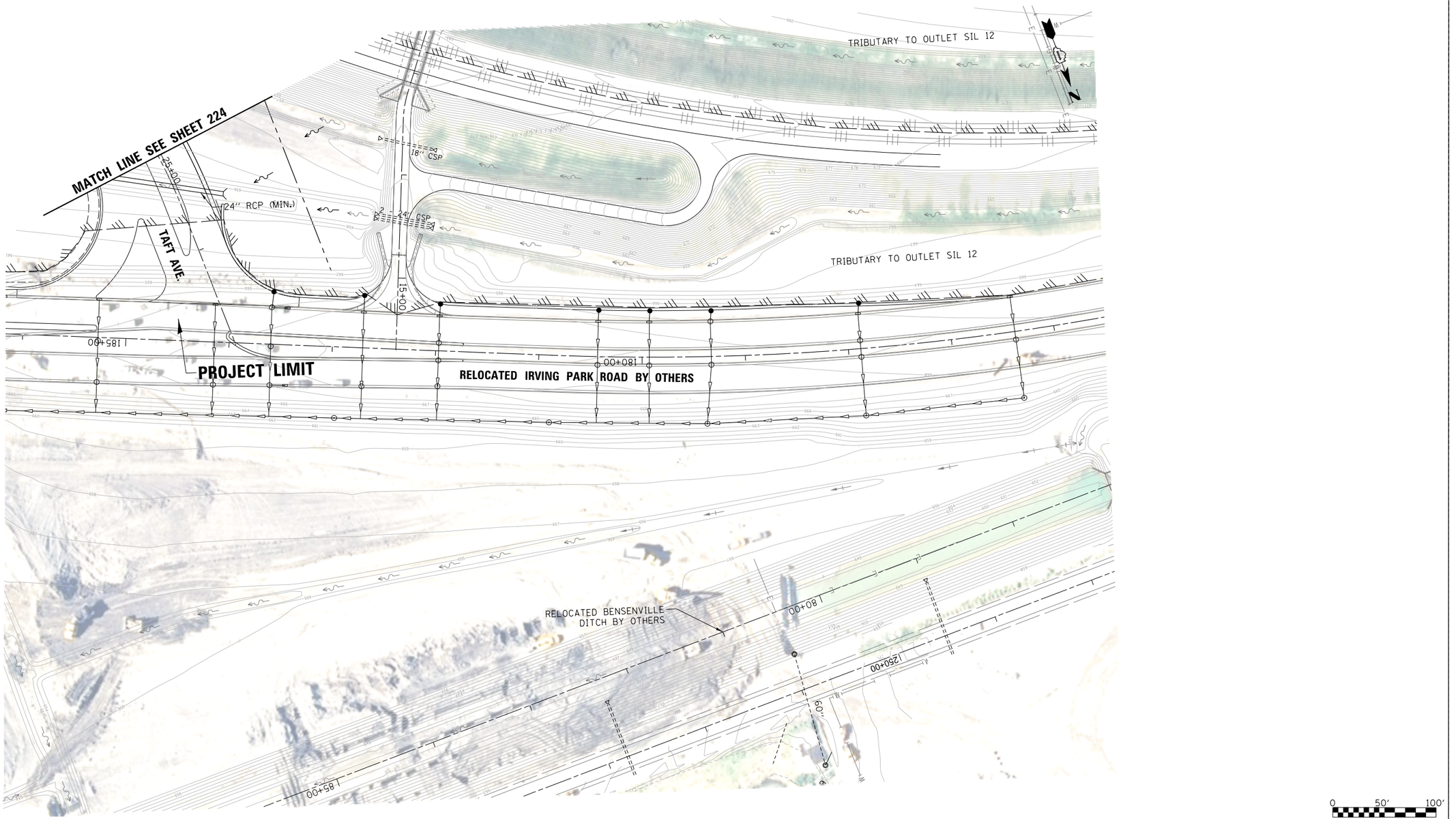
Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
TAFT AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	224
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			



LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

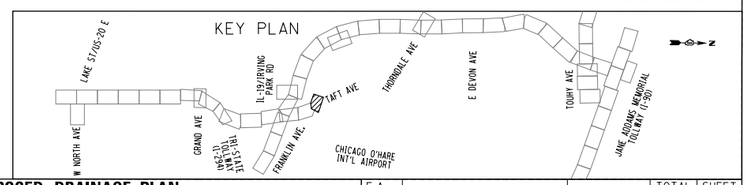
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

•MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED
TAFT AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	225
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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10:42:21 AM

SEE SHEET 37

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

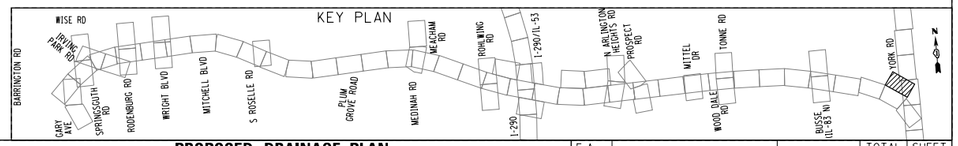
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT COMPENSATORY STORAGE BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
WILLOW CREEK WATERSHED
RAMP P1

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	226
		CONTRACT NO.		
FULL BUILD	ILLINOIS FED. AID PROJECT			

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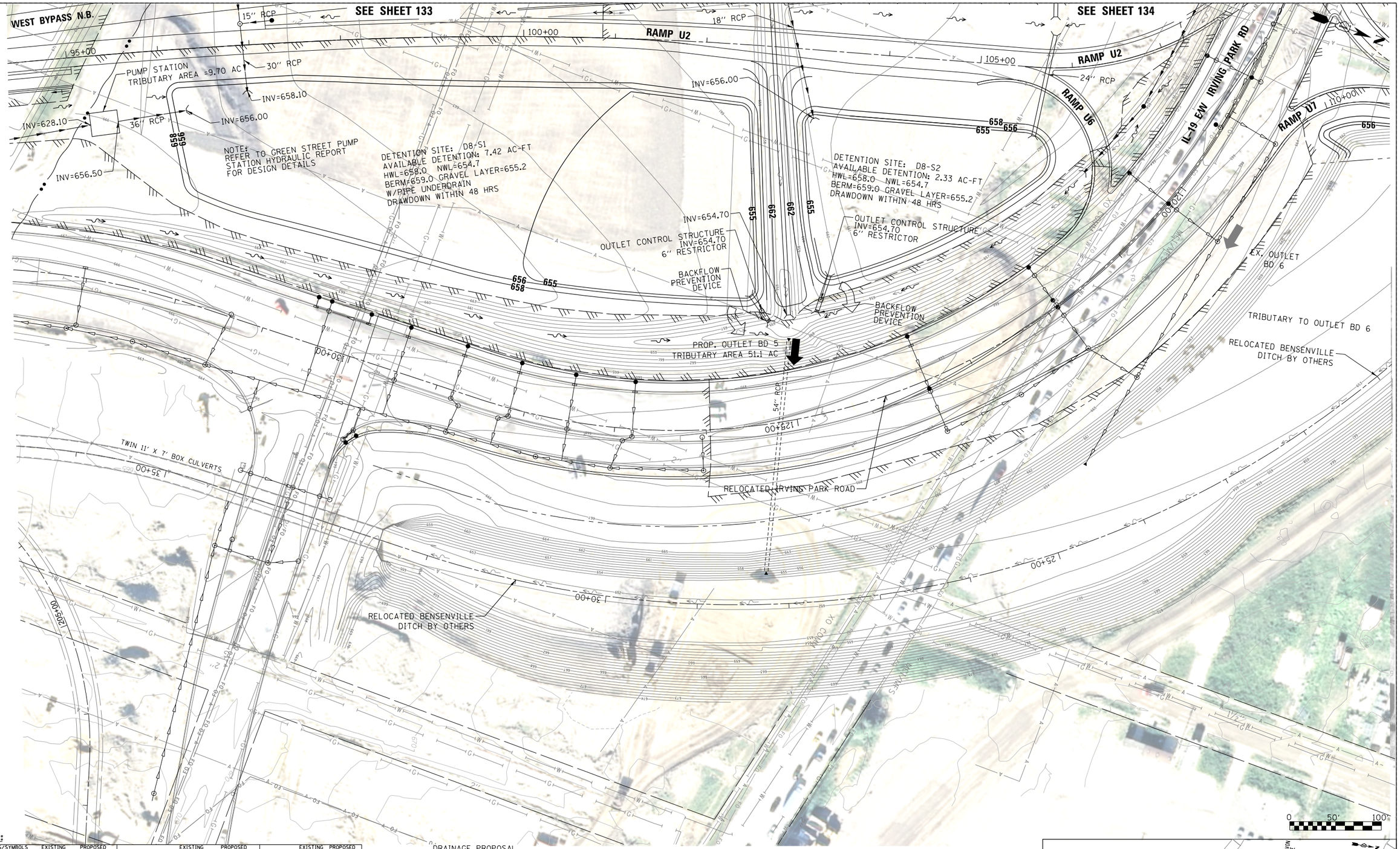


LEGEND:

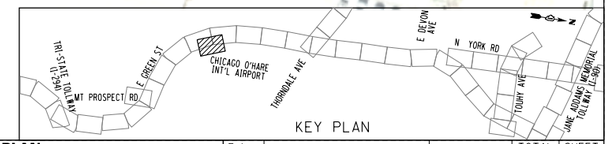
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1+30+00	1+15+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



KEY PLAN

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	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED / BENSENVILLE DITCH WATERSHED
RAMP U6

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	227
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-RAMU6_FullBuild.dgn
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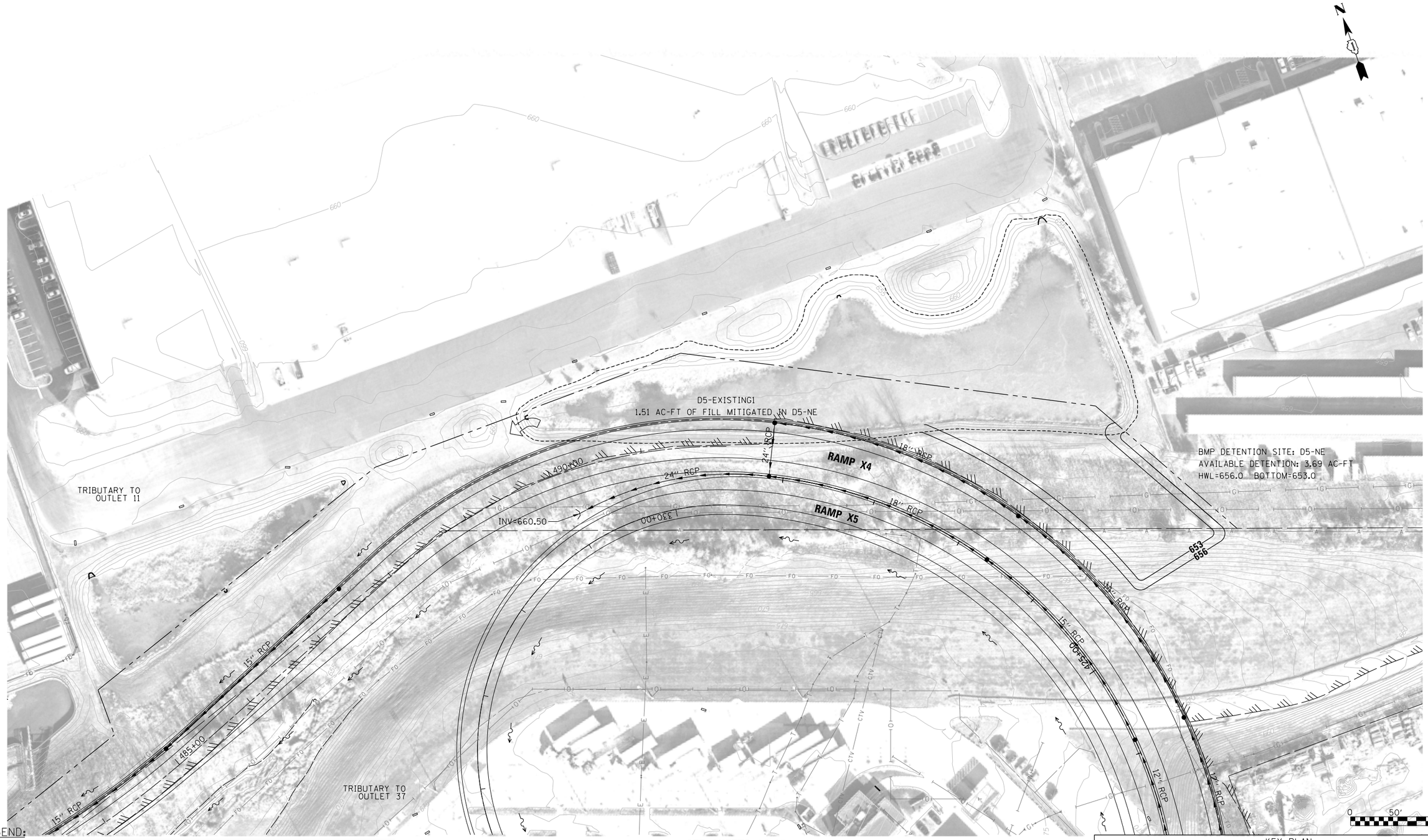


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1430+00	1715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		TT TT TT T
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

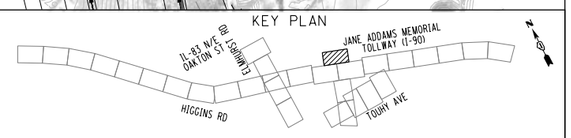
	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

SEE SHEETS 94, 95

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT NEW DETENTION BASIN(S).
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
communities. opportunities. solutions.

Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
HIGGINS CREEK WATERSHED
WEST BYPASS

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	228
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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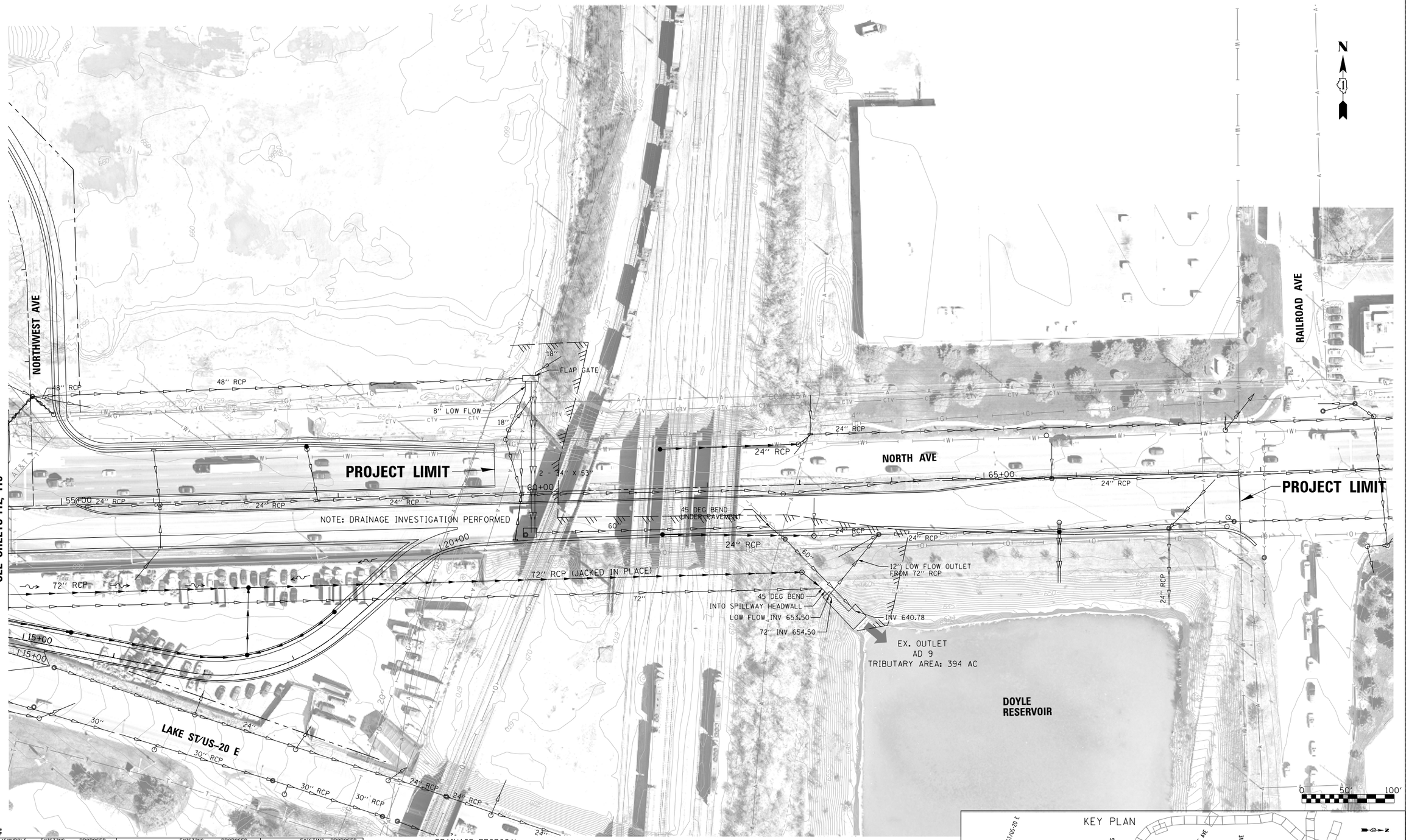


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	1 430+00	1 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT	TT TT TT T	
PERMANENT EASEMENT	77777777	
STORM SEWER REMOVAL		

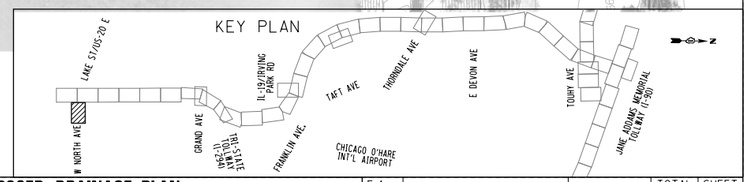
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
NORTH AVE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	229
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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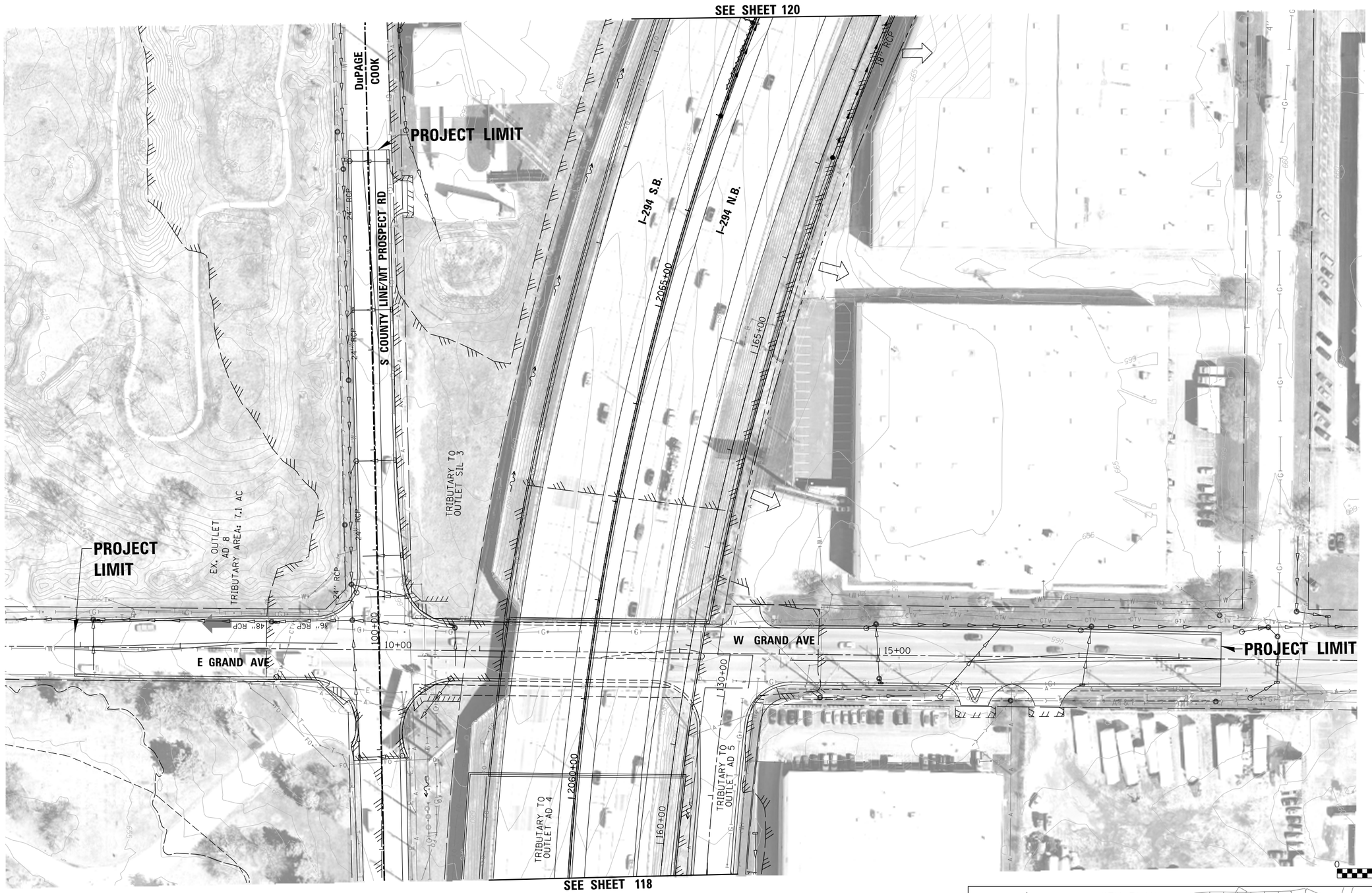


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	I 430+00	I 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

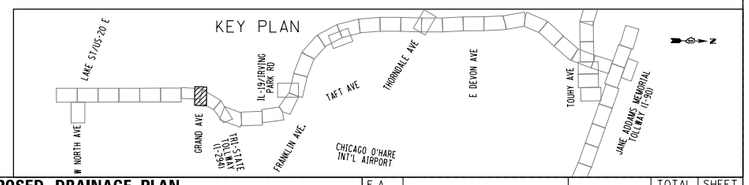
	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY

KEY PLAN



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	PLOT DATE = 11/30/2012	DATE -	REVISED -

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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
ADDISON CREEK WATERSHED
GRAND AVENUE

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	230
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

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SEE SHEET 130

ADDISON CREEK WATERSHED

SILVER CREEK WATERSHED

TRIBUTARY TO OUTLET AD 11

TRIBUTARY TO OUTLET SIL 8

PROJECT LIMIT

S COUNTY LINE/MT PROSPECT RD

EX. OULET AD 11

E GREEN ST

FRANKLIN AVE/E GREEN ST

RAMP T4

RAMP T3

24" RCP (MIN)

WEST BYPASS SB

WEST BYPASS NB

L15+00

L45+00

L50+00

L150+00

0' 50' 100'

SEE SHEET 129

LEGEND:

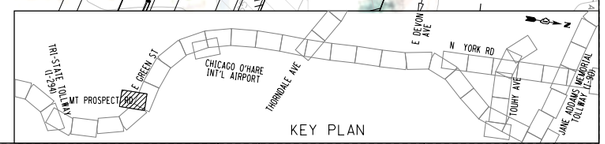
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	L 430+00	L 715+00
RIGHT OF WAY LINE		
COUNTY LINE		
DRAINAGE DIVIDE (HYDROLOGIC ATLAS)		
TEMPORARY EASEMENT		
PERMANENT EASEMENT		
STORM SEWER REMOVAL		

	EXISTING	PROPOSED
SWALE		
DITCH		
DITCH SUMMIT		
CULVERT SIZE/TYPE	2 X 2 BOX	2 X 2 BOX
HEADWALL		
CATCH BASIN		
INLET/SCUPPER		
MANHOLE		
INVERT	(XXX.XX)	XXX.XX
STORM SEWER		

	EXISTING	PROPOSED
OVERFLOW		
OUTLET		
SHEET FLOW		
DITCH CHECK		
DRAINAGE BOUNDARY		

DRAINAGE PROPOSAL

- MAINTAIN EXISTING STORM SEWERS AND EXISTING DITCHES UNLESS NOTED TO CONTRARY.
- CONSTRUCT PROPOSED DRAINAGE SYSTEM INCLUDING STORM SEWERS, DITCHES AND PIPE CULVERTS. INLET LOCATIONS ARE FOR ILLUSTRATION PURPOSE ONLY



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	PLOT SCALE = 100'	CHECKED CW	REVISED -
	PLOT DATE = 11/30/2012	DATE -	REVISED -

ELGIN O'HARE WEST BYPASS
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Illinois Department of Transportation

CHRISTOPHER B. BURKE ENGINEERING, LTD.

PROPOSED DRAINAGE PLAN
SILVER CREEK WATERSHED / ADDISON CREEK WATERSHED
MOUNT PROSPECT ROAD

SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK,DuPAGE	231	231
		CONTRACT NO.		
FULL BUILD	ILLINOIS	FED. AID PROJECT		

Y:\36180 - Elgin O'Hare - West Bypass\TIER_TWO\HY\CAD\Models Geometric FullBuild\sheets\DIEOWB-sht-pr-drain-MPRI_FullBuild.dgn
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