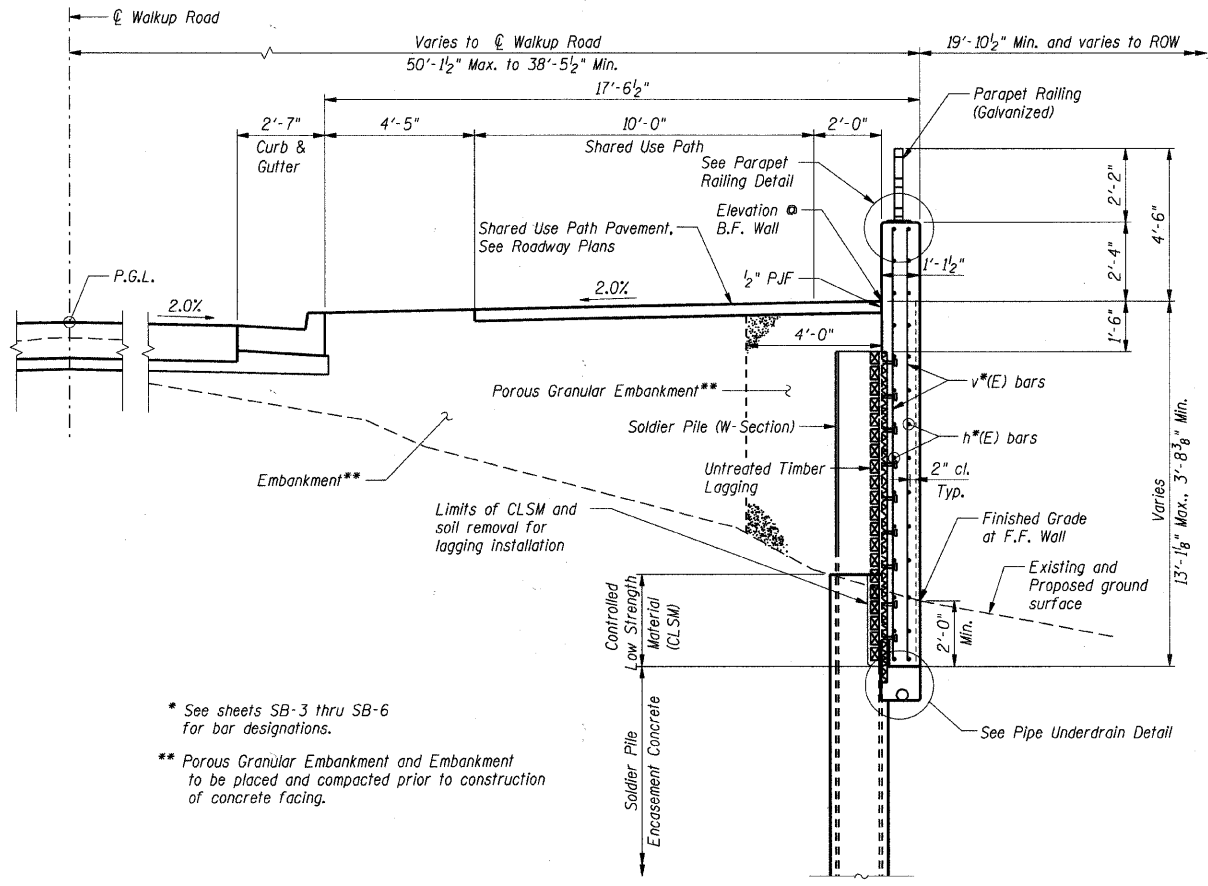
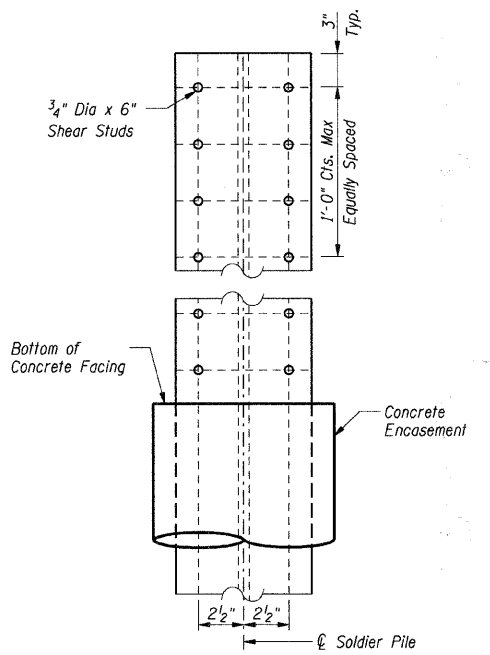


F.A.U. RFE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	201
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO: 63522				

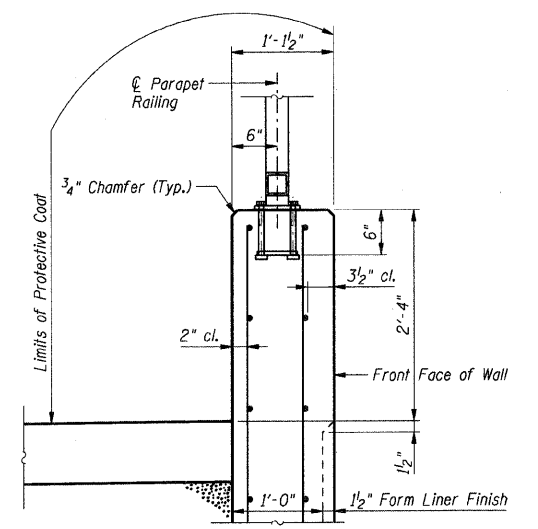


* See sheets SB-3 thru SB-6 for bar designations.
 ** Porous Granular Embankment and Embankment to be placed and compacted prior to construction of concrete facing.

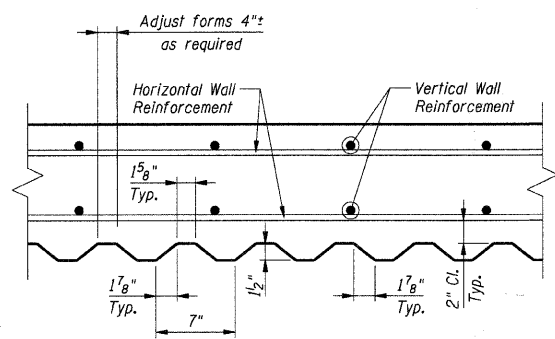
SECTION E-E
 Sta. 54+85.02 to Sta. 55+21.60 and
 Sta. 56+15.62 to Sta. 59+49.91



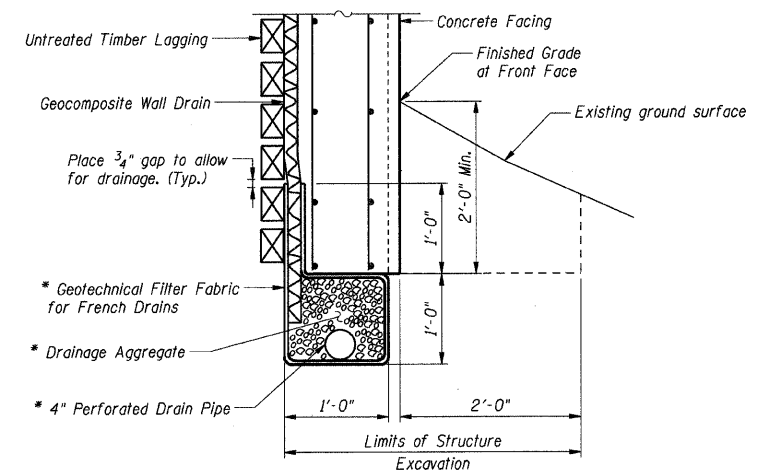
SHEAR STUD CONNECTION DETAIL



PARAPET RAILING DETAIL

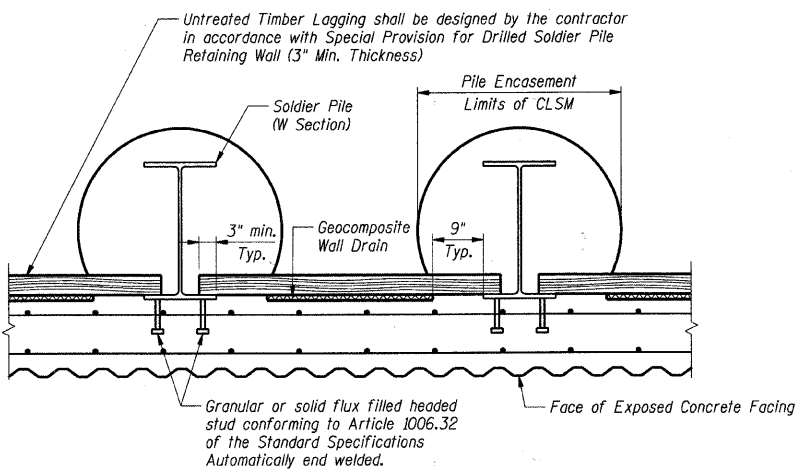


FORM LINER TEXTURED SURFACE DETAIL

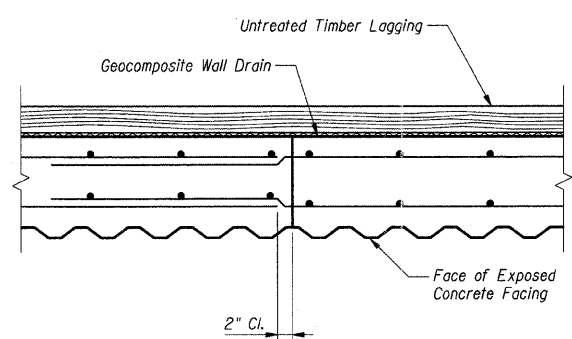


* Included in the cost of Pipe Underdrains for Structures 4".

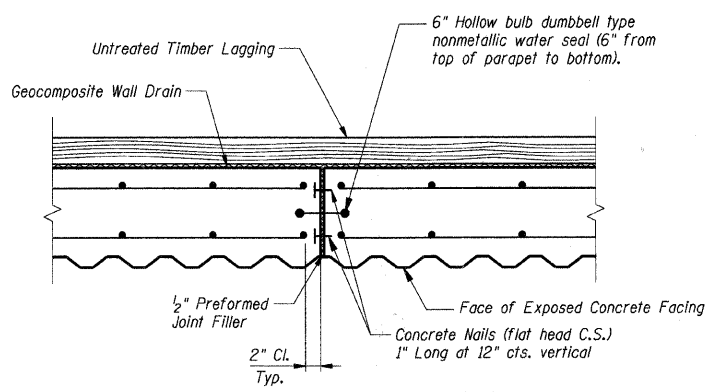
PIPE UNDERDRAIN DETAIL
 (Between soldier piles shown, at piles similar)



SECTION THRU SOLDIER PILE WALL



CONSTRUCTION JOINT DETAIL



EXPANSION JOINT DETAIL

Cost of nonmetallic water seal, concrete nails, and preformed joint filler included with Concrete Structures.

- Notes:**
1. Work this sheet with sheets SB-1 thru SB-14.
 2. F.F. denotes Front Face of wall
B.F. denotes Back Face of wall

SHT. SB-7

REVISIONS	
NAME	DATE

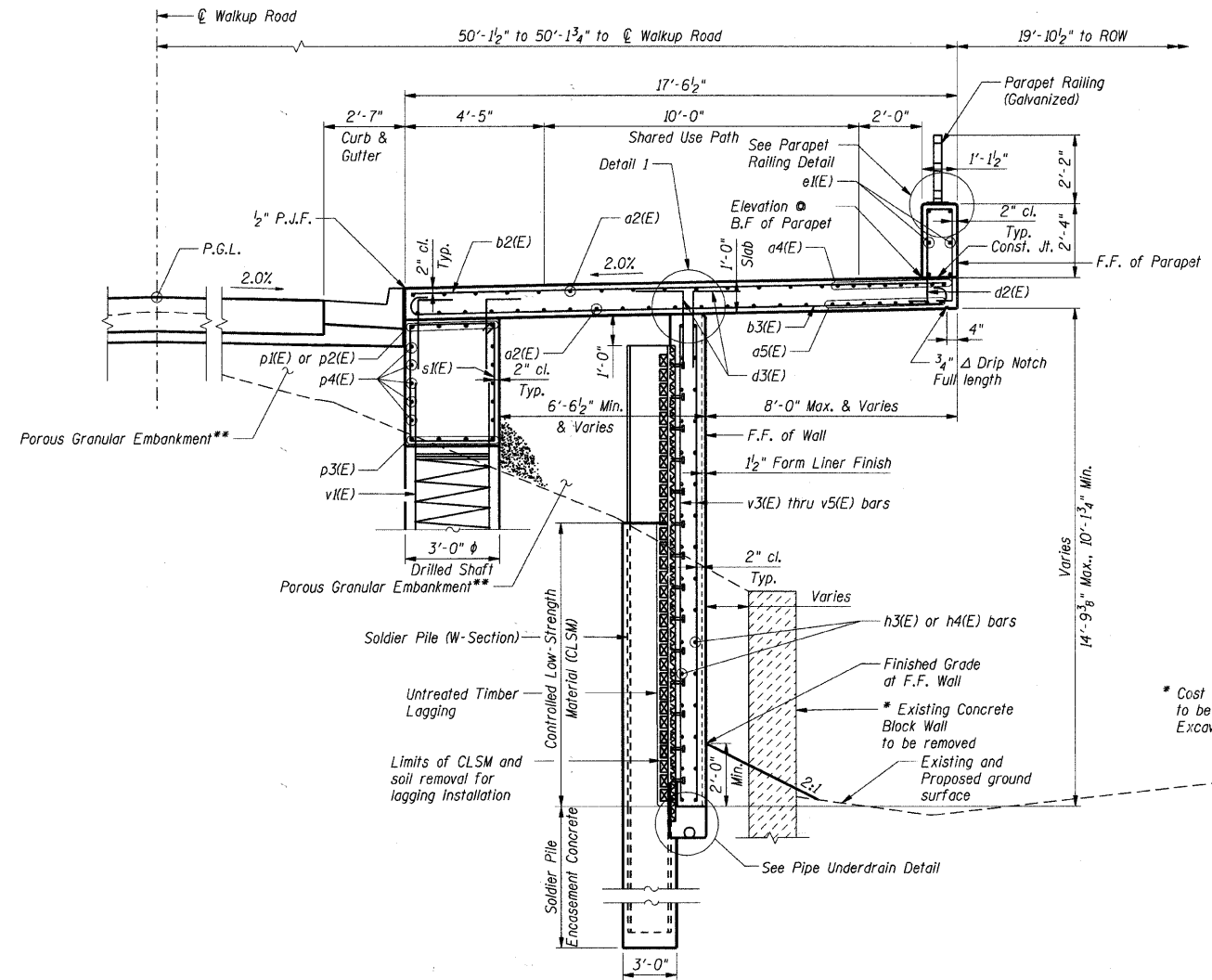
MCHENRY COUNTY DIVISION OF TRANSPORTATION
 WALKUP ROAD F.A.U. 0085
 SECTION 00-00246-02-FP
 STATION 54+85.02 TO 59+49.91
 VETERAN ACRES PARK RETAINING WALL
TYPICAL SECTIONS & DETAILS

SCALE: N.T.S. DRAWN BY: CPB
 DATE: 04/15/11 CHECKED BY: TCC



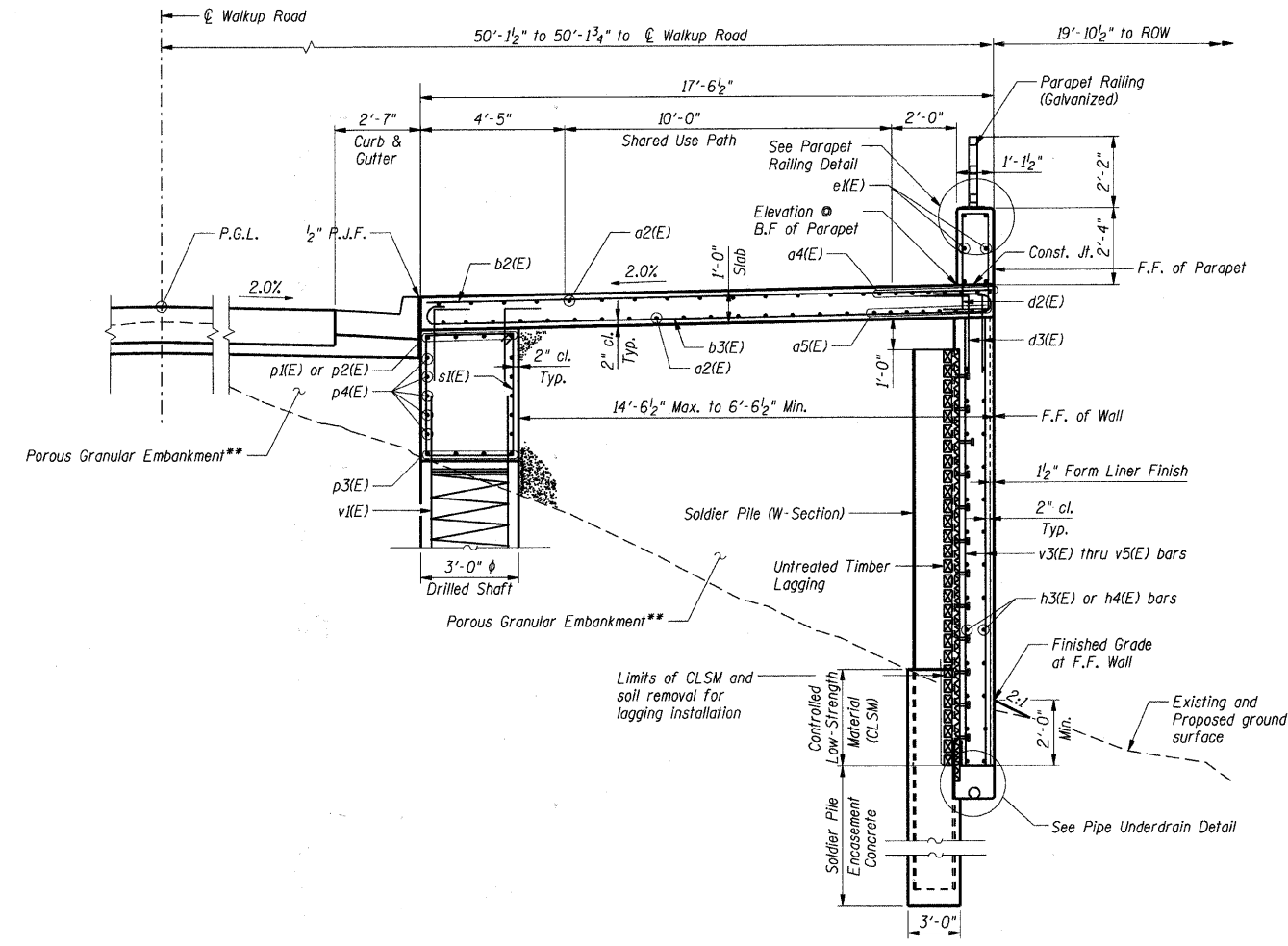
TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 305 N. MICHIGAN AVE. CHICAGO, IL 60601
 TEL: (312) 281-1000

I:\SPR\002.DWG - RSC02\AC08.SHT - RSC02\AC08.SHT - RSC02\AC08.SHT - RSC02\AC08.SHT - RSC02\AC08.SHT
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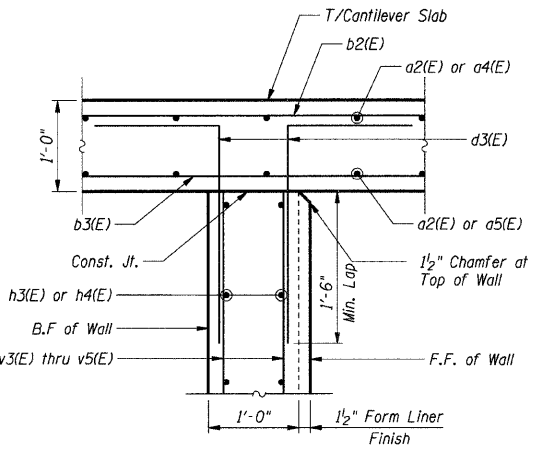


SECTION A-A
Sta. 55+31.60 to Sta. 56+05.62

** Porous Granular Embankment and Embankment to be placed and compacted prior to construction of concrete facing.



SECTION B-B
Sta. 55+31.60 to Sta. 56+05.62



DETAIL 1

* Cost of Existing Concrete Block Wall to be removed is included with Earth Excavation

- Notes:**
1. Work this sheet with sheets SB-1 thru SB-14.
 2. F.F. denotes Front Face of wall
B.F. denotes Back Face of wall

SHT. SB-9

REVISIONS	
NAME	DATE

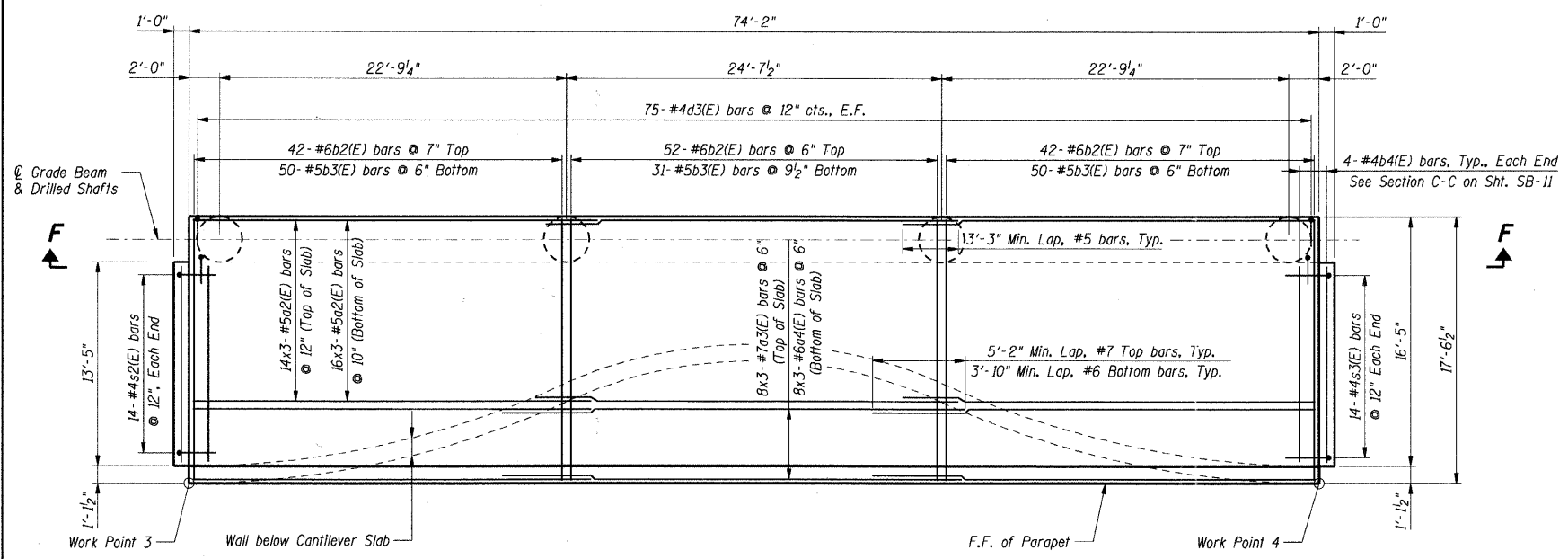
MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085
SECTION 00-00246-02-FP
STATION 54+85.02 TO 59+49.91
VETERAN ACRES PARK RETAINING WALL

CANTILEVERED SLAB SECTIONS

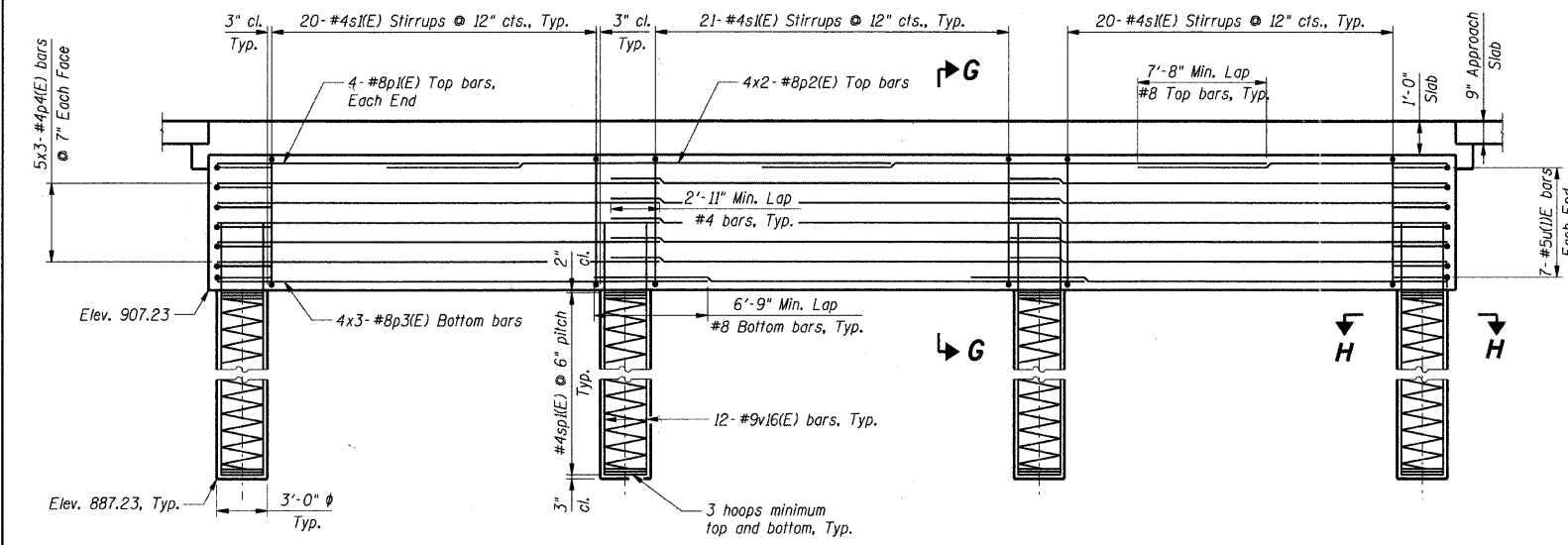
SCALE: N.T.S. DRAWN BY: CPB
DATE: 04/15/11 CHECKED BY: TCC

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
816 N. WICKLIFF AVE. CHICAGO, IL 60614
TELEPHONE: 312-644-0000

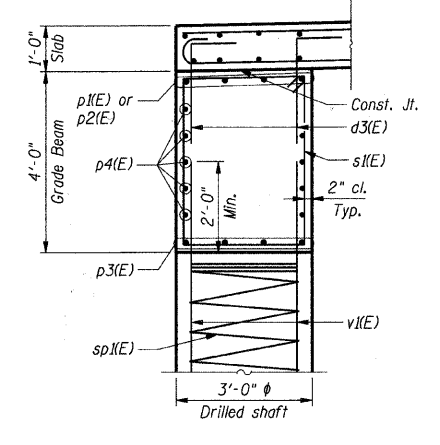
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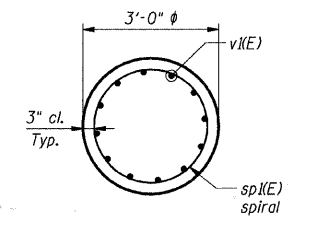
CANTILEVER SLAB PLAN



SECTION F-F



SECTION G-G



SECTION H-H

CANTILEVER SLAB BAR LIST

BAR	NO.	SIZE	LENGTH	SHAPE
a2(E)	90	#5	26'-10"	—
a3(E)	24	#7	28'-1"	—
a4(E)	24	#6	27'-2"	—
b2(E)	136	#6	17'-2"	—
b3(E)	131	#5	18'-4"	U
b4(E)	8	#4	13'-1"	—
p1(E)	8	#8	18'-5"	—
p2(E)	8	#8	30'-0"	—
p3(E)	12	#8	29'-2"	—
p4(E)	30	#4	26'-7"	—
s1(E)	61	#4	13'-5"	□
s2(E)	28	#4	2'-6"	—
s3(E)	28	#4	5'-0"	—
sp1(E)	4	#4	19'-7"	WWW
u1(E)	14	#5	9'-1"	—
v16(E)	48	#9	21'-9"	—

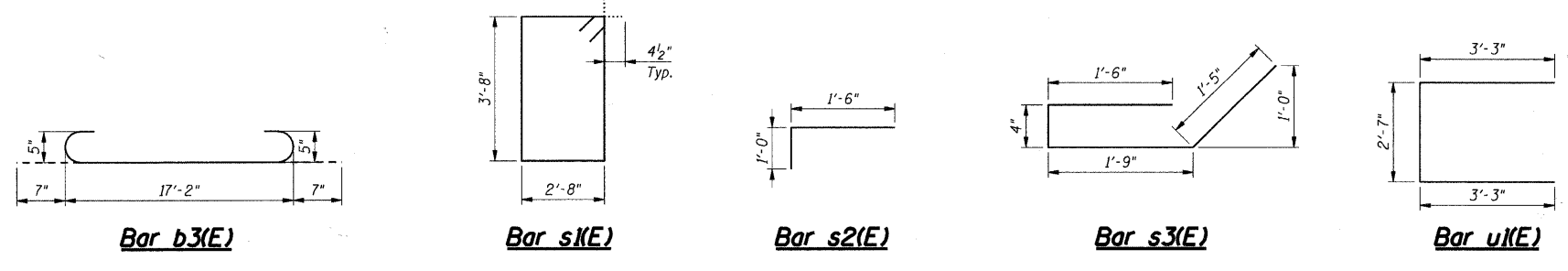
*Length is height of spiral

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Structures	Cu Yd	82.5
Drilled Shafts in Soil	Cu Yd	20.9
Protective Coat	Sq Yd	135.3
Reinforcement Bars, Epoxy Coated	Lbs	17,350

Notes:

1. Work this sheet with sheets SB-1 thru SB-14.
2. F.F. denotes Front Face of wall, B.F. denotes Back Face of wall
3. Bars indicated thus 6x3-#5 indicates 6 lines of bars with 3 lengths per line.
4. When splicing of spiral reinforcement is necessary, the spirals shall be provided with a 1/2 extra turns at the end to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook. Provide min. 4-#4 spacers or equivalent.



REVISIONS	
NAME	DATE

SHT. SB-10

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.I. 0085
SECTION 00-00246-02-FP
STATION 54+85.02 TO 59+49.91
VETERAN ACRES PARK RETAINING WALL

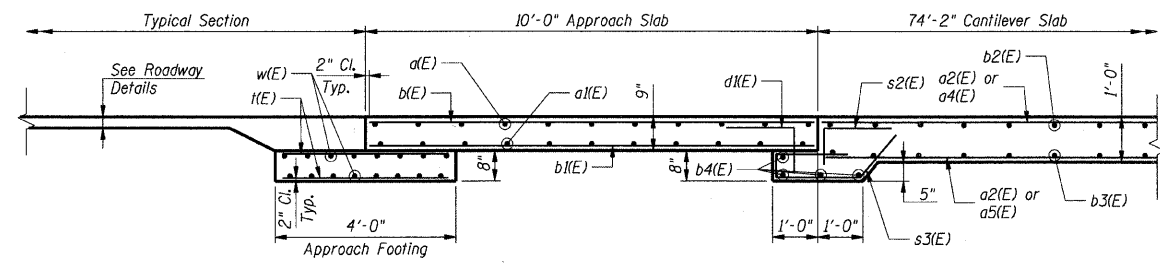
**CANTILEVERED SLAB
PLAN AND DETAILS**

SCALE: N.T.S. DRAWN BY: CPB
DATE: 04/15/11 CHECKED BY: TCG

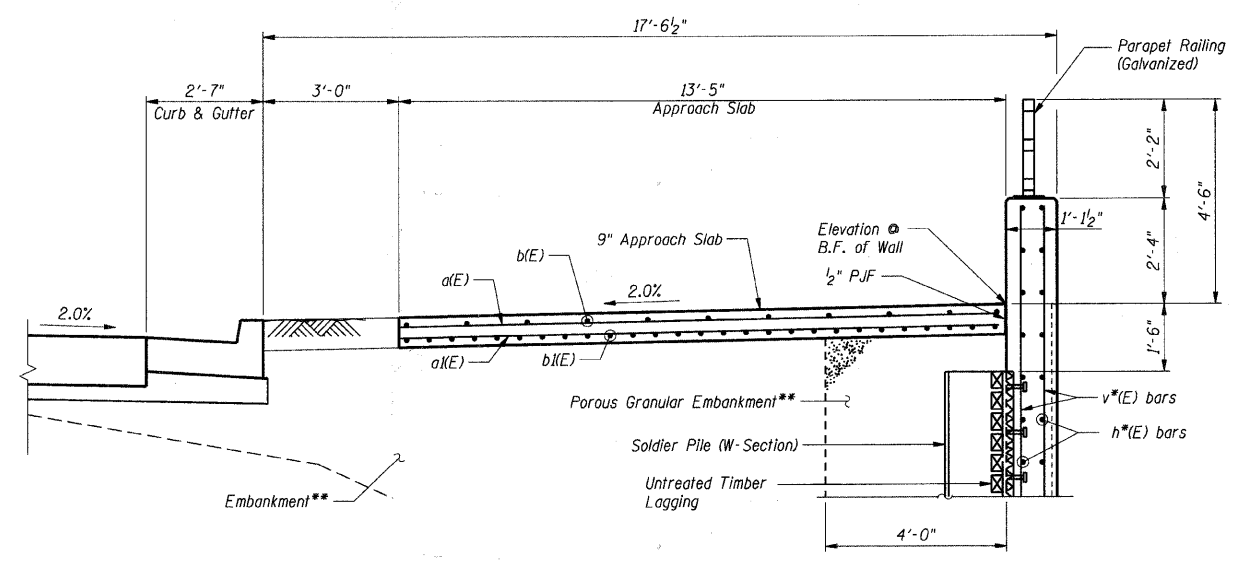
TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
255 N. MICHIGAN AVE. CHICAGO, IL 60601
TEL: 312.924.2900

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	205
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO: 63522				



SECTION C-C
Section C'-C' opposite hand



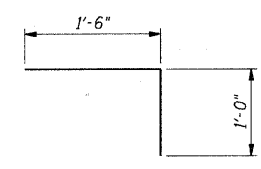
SECTION D-D
Sta. 55+21.60 to Sta. 55+31.60
Sta. 56+05.62 to Sta. 56+15.62

* See sheets SB-3 thru SB-6 for bar designation

** Porous Granular Embankment and Embankment to be placed and compacted prior to construction of concrete facing.

**TWO APPROACH SLABS
BAR LIST**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	18	#4	13'-1"	—
a1(E)	30	#5	13'-1"	—
b(E)	22	#4	9'-8"	—
b1(E)	54	#9	9'-8"	—
d1(E)	28	#4	2'-6"	└
i(E)	56	#4	3'-8"	—
w(E)	32	#5	13'-1"	—

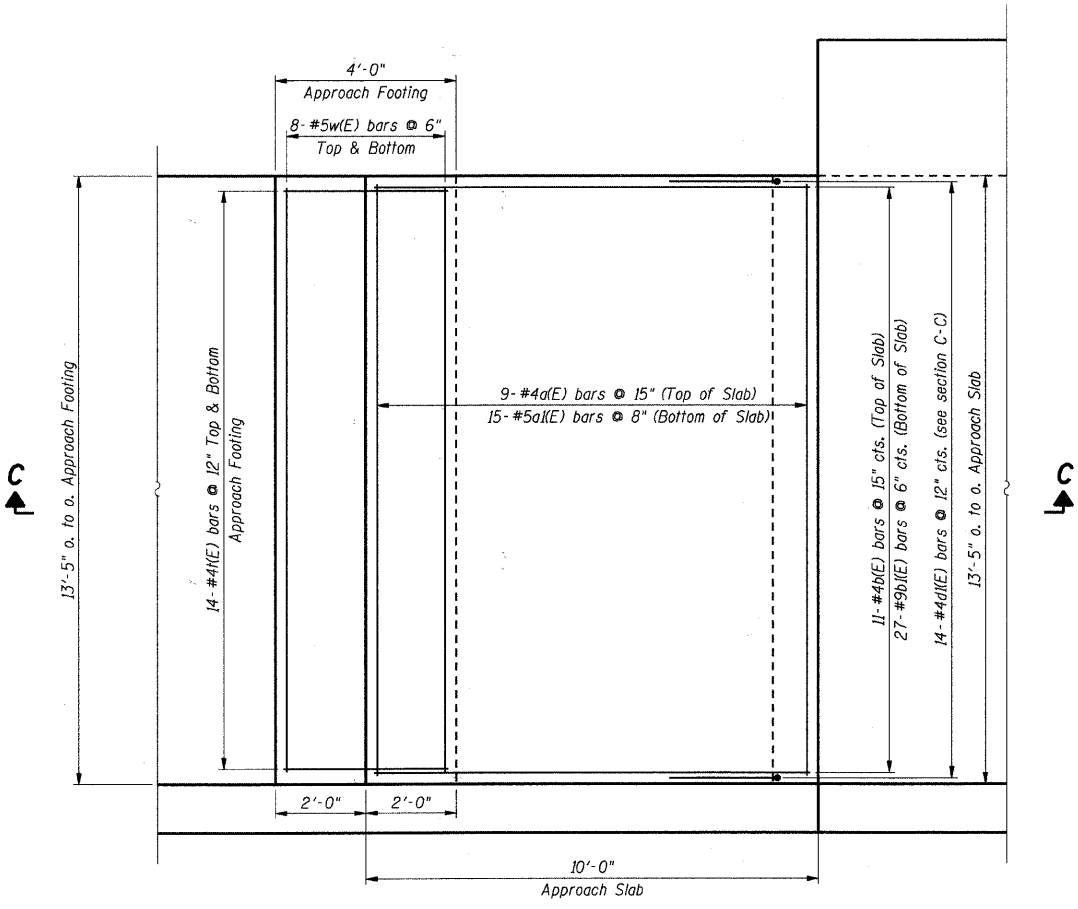


Bar d1(E)

**TWO APPROACH SLABS
BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Structures	Cu Yd	10.1
Protective Coat	Sq Yd	29.8
Reinforcement Bars, Epoxy Coated	Lbs	3,100

Note:
1. Work this sheet with sheets SB-1 thru SB-14.



APPROACH SLAB PLAN
(2 Thus)

SHT. SB-11

REVISIONS	
NAME	DATE

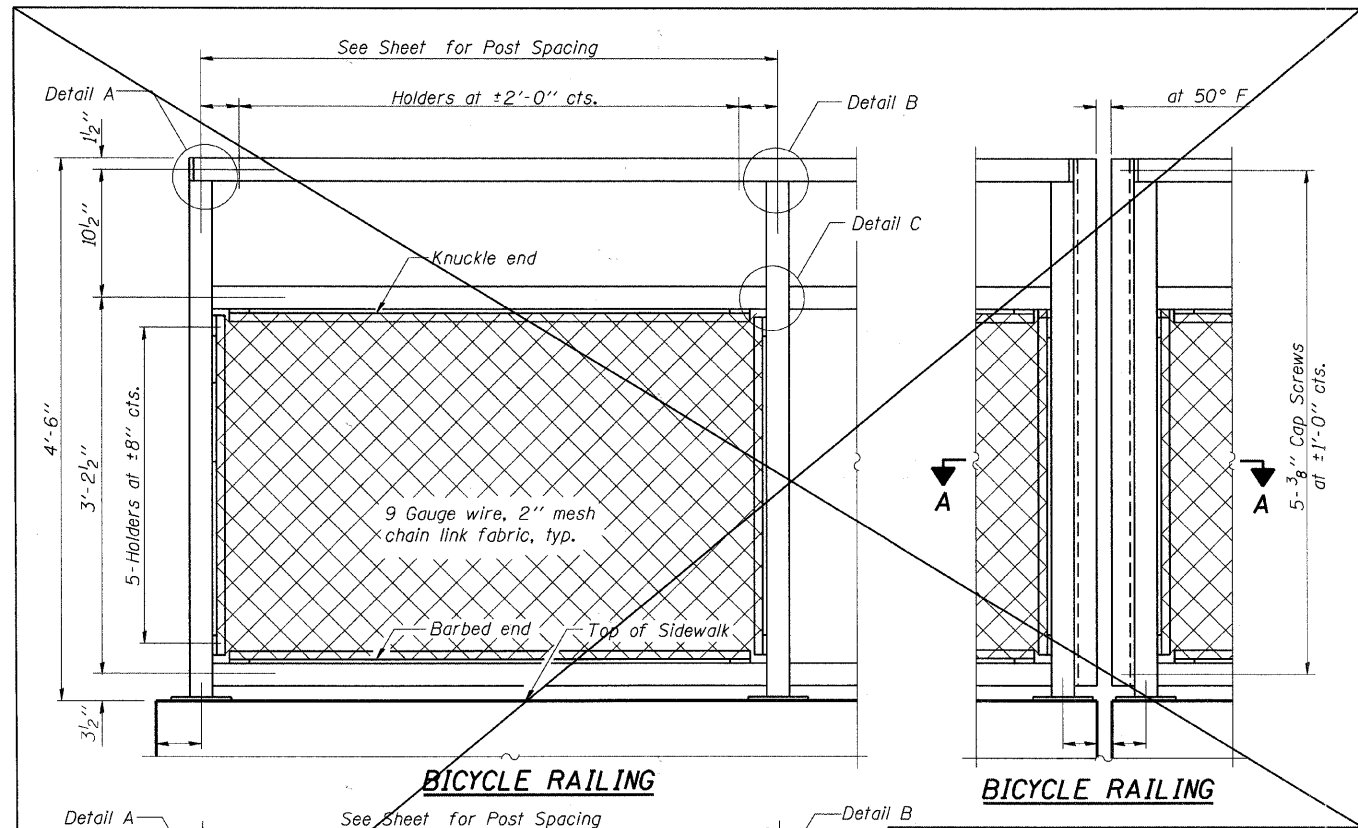
MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085
SECTION 00-00246-02-FP
STATION 54+85.02 TO 59+49.91
VETERAN ACRES PARK RETAINING WALL
BRIDGE APPROACH SLAB

SCALE: N.T.S. DRAWN BY: CPB
DATE: 04/15/11 CHECKED BY: TCG

TENG
TENG & ASSOCIATES, INC.
ENGINEERING ARCHITECTURE PLANNING
815 N. MICHIGAN AVE. CHICAGO, IL 60611
TELEPHONE: 312.542.4000

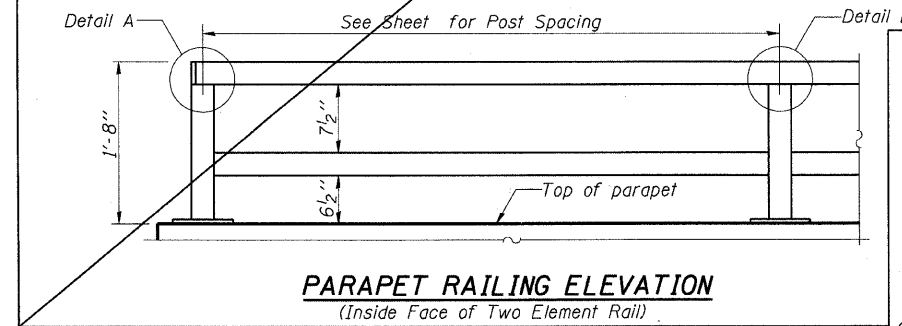
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	206
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO: 63522				

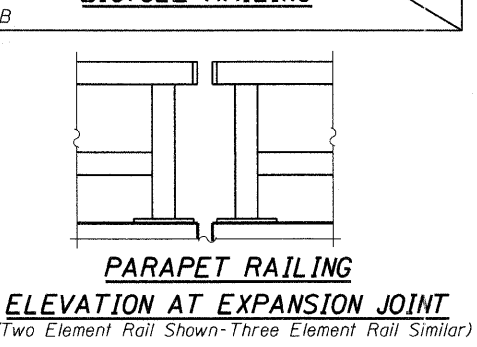


BICYCLE RAILING

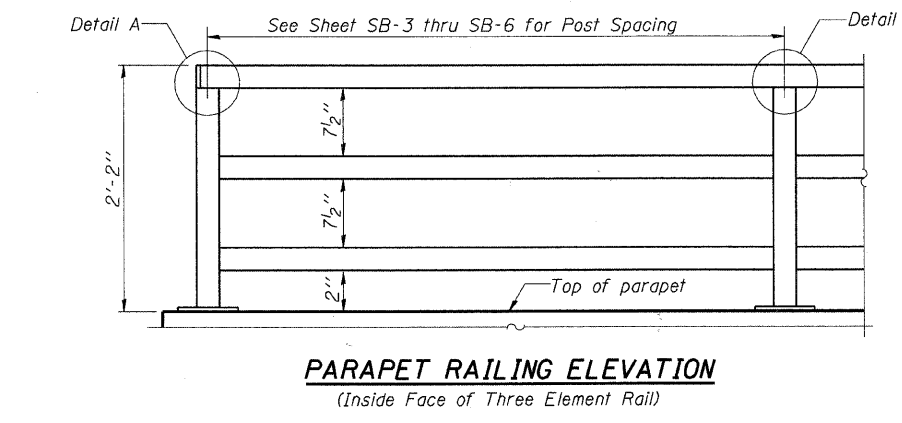
BICYCLE RAILING



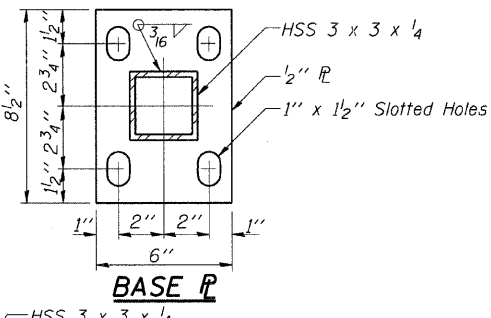
PARAPET RAILING ELEVATION
(Inside Face of Two Element Rail)



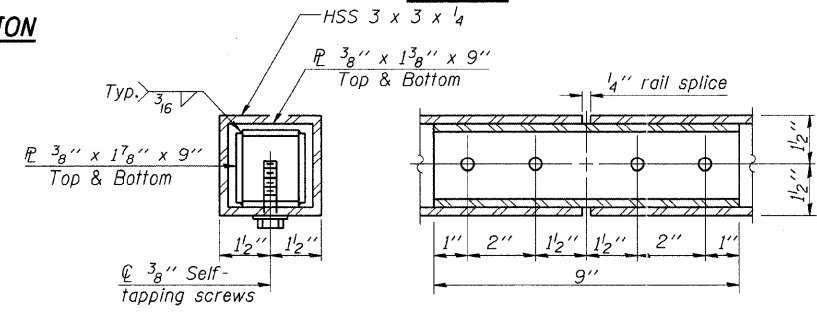
PARAPET RAILING ELEVATION AT EXPANSION JOINT
(Two Element Rail Shown-Three Element Rail Similar)



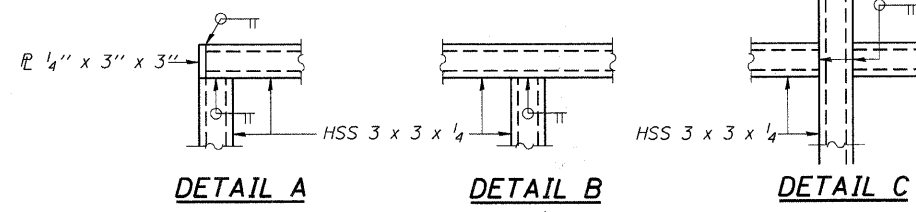
PARAPET RAILING ELEVATION
(Inside Face of Three Element Rail)



BASE PLATE

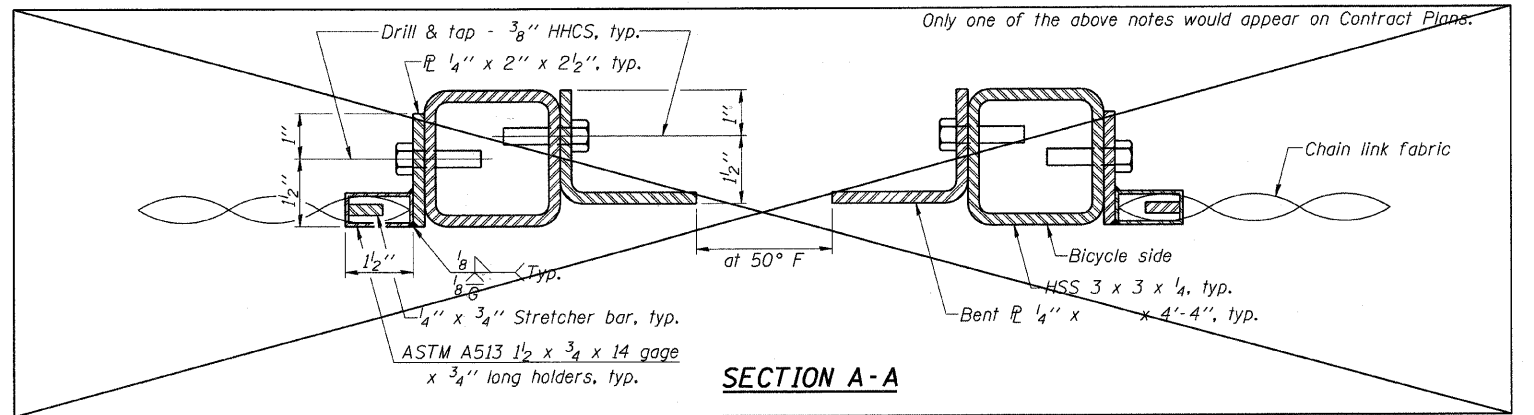


RAIL SPLICE

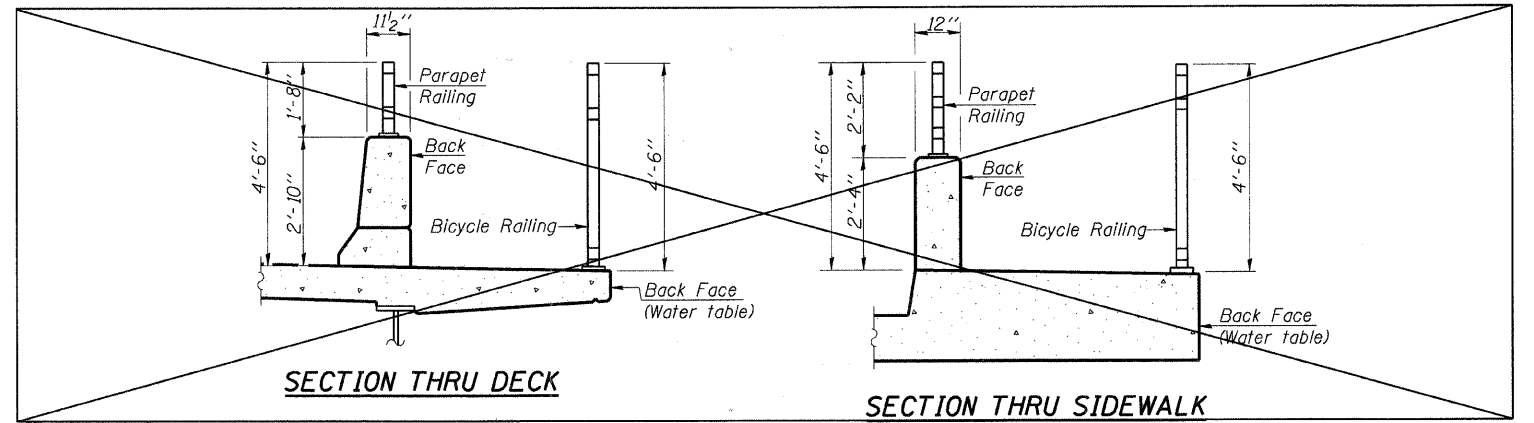


DETAIL A **DETAIL B** **DETAIL C**

NOTE:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

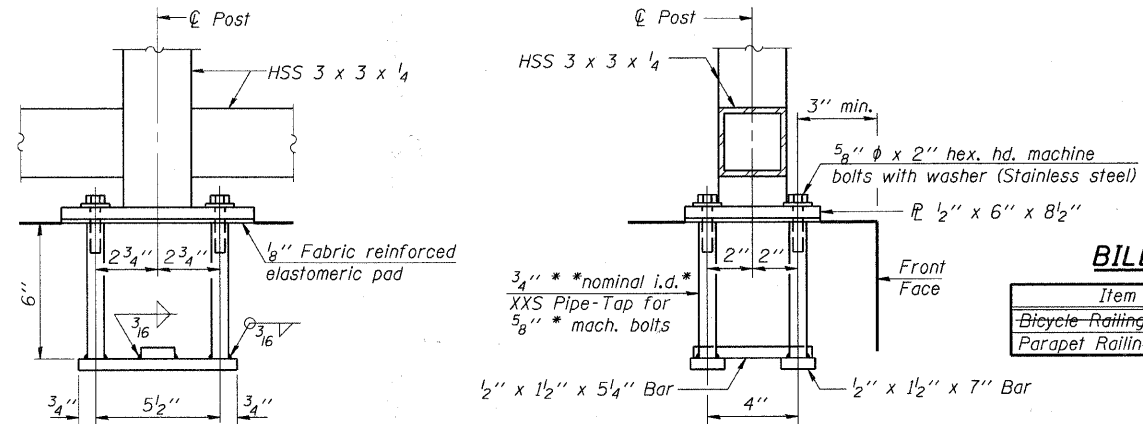


SECTION A-A



SECTION THRU DECK

SECTION THRU SIDEWALK



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" φ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	
Parapet Railing	Foot	465

SHT. SB-12

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085
SECTION 00-00246-02-FP
STATION 54+85.02 TO 59+49.91
VETERAN ACRES PARK RETAINING WALL
PARAPET RAILING DETAILS

SCALE: N.T.S. DRAWN BY: CPB
DATE: 04/15/11 CHECKED BY: TCG



TENG & ASSOCIATES, INC.
ENGINEERS, ARCHITECTS, PLANNERS
200 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312-467-0000

\SFS-004\KAM\VALE.TD-TRANS.01\2202\300-03\STRUCT\CD\02.CONTRACT\VA.VETERAN.ACRES.PARK.WALL\SHEET\RSZ\TENG\DRS\LIGHT
 \NDR\04092.DGN
 4-14-2011 5:56:43
 5-16-08 (10'-0" Maximum Post Spacing)

STRUCTURE FOUNDATION BORING LOG
 Page: 1 of 1
 OBA
 O'BRIEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1208 E. STATE ST., WILMINGTON, ILL. 62690
 (618) 266-1400 • FAX (618) 266-2570

Project: Walkup Road Phase II Roadway Improvements OBA Job No.: 06600
 Job No: 10-91-374-00 Date: Oct. 25, 2006
 County: McHenry Bored By: DR
 Client: Teng & Associates, Inc. Checked By: DOB

BORING No.: ST-8
 Station: 54+38
 Offset: 60' Right
 Ground Surface Elevation: 999.3 (ft) (67) (wt) (X)

Surface Water Elev.: n/a
 Groundwater Elevation: Dry #D
 Groundwater Elevation: Dry #B
 After Hours: Hours: (ft) (67) (wt) (X)

8.0" TOPSOIL-black
 CLAY LOAM-brown & gray-hard (A-6) Fill
 SAND, GRAVEL & COBBLES-brown-medium dense to very dense (A-1-a)

DEPTH (ft)	LOG	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
0										
2										
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26										
28										
30										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (D-Block, S-Shear, P-Parametric) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D208) The Unit Dry Weight (gd) is noted in italics above moist (M)
 NR-No Recovery

STRUCTURE FOUNDATION BORING LOG
 Page: 1 of 1
 OBA
 O'BRIEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1208 E. STATE ST., WILMINGTON, ILL. 62690
 (618) 266-1400 • FAX (618) 266-2570

Project: Walkup Road Phase II Roadway Improvements OBA Job No.: 06600
 Job No: 10-91-374-00 Date: Nov. 15, 2006
 County: McHenry Bored By: DR
 Client: Teng & Associates, Inc. Checked By: DOB

BORING No.: ST-9
 Station: 54+92
 Offset: 113.5' Right
 Ground Surface Elevation: n/a (ft) (67) (wt) (X)

Surface Water Elev.: n/a
 Groundwater Elevation: Dry #D
 Groundwater Depth: 24.0' #D
 Groundwater Depth: 25.5' #B
 After Hours: Hours: (ft) (67) (wt) (X)

TOPSOIL-black
 SAND & GRAVEL-brown-medium dense to dense (A-1)
 SAND & GRAVEL-brown-medium dense to dense (A-1)
 End of Boring @ -30.0'
 Hollow Stem Augers
 CME Automatic Hammer

DEPTH (ft)	LOG	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
0										
2										
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26										
28										
30										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (D-Block, S-Shear, P-Parametric) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D208) The Unit Dry Weight (gd) is noted in italics above moist (M)
 NR-No Recovery

STRUCTURE FOUNDATION BORING LOG
 Page: 1 of 1
 OBA
 O'BRIEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1208 E. STATE ST., WILMINGTON, ILL. 62690
 (618) 266-1400 • FAX (618) 266-2570

Project: Walkup Road Phase II Roadway Improvements OBA Job No.: 06600
 Job No: 10-91-374-00 Date: Oct. 27, 2006
 County: McHenry Bored By: RJ
 Client: Teng & Associates, Inc. Checked By: DOB

BORING No.: ST-10
 Station: 55+25
 Offset: 15' Right
 Ground Surface Elevation: 911.2 (ft) (67) (wt) (X)

Surface Water Elev.: n/a
 Groundwater Elevation: Dry #D
 Groundwater Elevation: Dry #B
 Cave In Elevation: 899.4 ACR
 After Hours: Hours: (ft) (67) (wt) (X)

12.0" ASPHALT, 24.0" CRUSHED STONE-medium dense
 CLAY LOAM-dark brown-stiff (A-6) Fill
 SANDY CLAY LOAM-dark brown-loose (A-4) Fill
 CRUSHED CONCRETE-medium dense (Fill)
 CLAY LOAM-dark brown-stiff (A-6) Fill, Wet
 CRUSHED STONE-medium dense (Fill)
 SAND & GRAVEL-brown-medium dense (A-1)

DEPTH (ft)	LOG	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
0										
2										
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26										
28										
30										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (D-Block, S-Shear, P-Parametric) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D208) The Unit Dry Weight (gd) is noted in italics above moist (M)
 NR-No Recovery

STRUCTURE FOUNDATION BORING LOG
 Page: 1 of 1
 OBA
 O'BRIEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1208 E. STATE ST., WILMINGTON, ILL. 62690
 (618) 266-1400 • FAX (618) 266-2570

Project: Walkup Road Phase II Roadway Improvements OBA Job No.: 06600
 Job No: 10-91-374-00 Date: Oct. 26, 2006
 County: McHenry Bored By: DR
 Client: Teng & Associates, Inc. Checked By: DOB

BORING No.: ST-11
 Station: 55+61
 Offset: 15' Right
 Ground Surface Elevation: 911.5 (ft) (67) (wt) (X)

Surface Water Elev.: n/a
 Groundwater Elevation: Dry #D
 Groundwater Elevation: Dry #B
 After Hours: Hours: (ft) (67) (wt) (X)

9.0" ASPHALT, 3.0" GRAVEL
 CLAY TO CLAY LOAM-dark brown-medium stiff to stiff (A-6) Fill
 SAND & GRAVEL-brown-medium dense to dense (A-1-a)
 SAND & GRAVEL-brown-medium dense to dense (A-1-a)
 Cobble from -12.5' to -28.5'

DEPTH (ft)	LOG	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
0										
2										
4										
6										
8										
10										
12										
14										
16										
18										
20										
22										
24										
26										
28										
30										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (D-Block, S-Shear, P-Parametric) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D208) The Unit Dry Weight (gd) is noted in italics above moist (M)
 NR-No Recovery

STRUCTURE FOUNDATION BORING LOG
 Page: 1 of 1
 OBA
 O'BRIEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1208 E. STATE ST., WILMINGTON, ILL. 62690
 (618) 266-1400 • FAX (618) 266-2570

Project: Walkup Road Phase II Roadway Improvements OBA Job No.: 06600
 Job No: 10-91-374-00 Date: Oct. 27, 2006
 County: McHenry Bored By: RJ
 Client: Teng & Associates, Inc. Checked By: DOB

BORING No.: ST-12
 Station: 55+14
 Offset: 15' Right
 Ground Surface Elevation: 911.6 (ft) (67) (wt) (X)

Surface Water Elev.: n/a
 Groundwater Elevation: Dry #D
 Groundwater Elevation: Dry #B
 After Hours: Hours: (ft) (67) (wt) (X)

12.0" ASPHALT, 3.0" GRAVEL
 CLAY LOAM-brown & black-stiff (A-6) Fill
 SAND & GRAVEL-brown-medium dense to very dense (A-1-a)
 End of Boring @ -40.0'
 Hollow Stem Augers
 CME Automatic Hammer

DEPTH (ft)	LOG	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
0										
2										
4										
6										
8										
10										
12										
14										
16										
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22										
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30										
32										
34										
36										
38										
40										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (D-Block, S-Shear, P-Parametric) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D208) The Unit Dry Weight (gd) is noted in italics above moist (M)
 NR-No Recovery

STRUCTURE FOUNDATION BORING LOG
 Page: 1 of 1
 OBA
 O'BRIEN & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 1208 E. STATE ST., WILMINGTON, ILL. 62690
 (618) 266-1400 • FAX (618) 266-2570

Project: Walkup Road Phase II Roadway Improvements OBA Job No.: 06600
 Job No: 10-91-374-00 Date: Oct. 27, 2006
 County: McHenry Bored By: RJ
 Client: Teng & Associates, Inc. Checked By: DOB

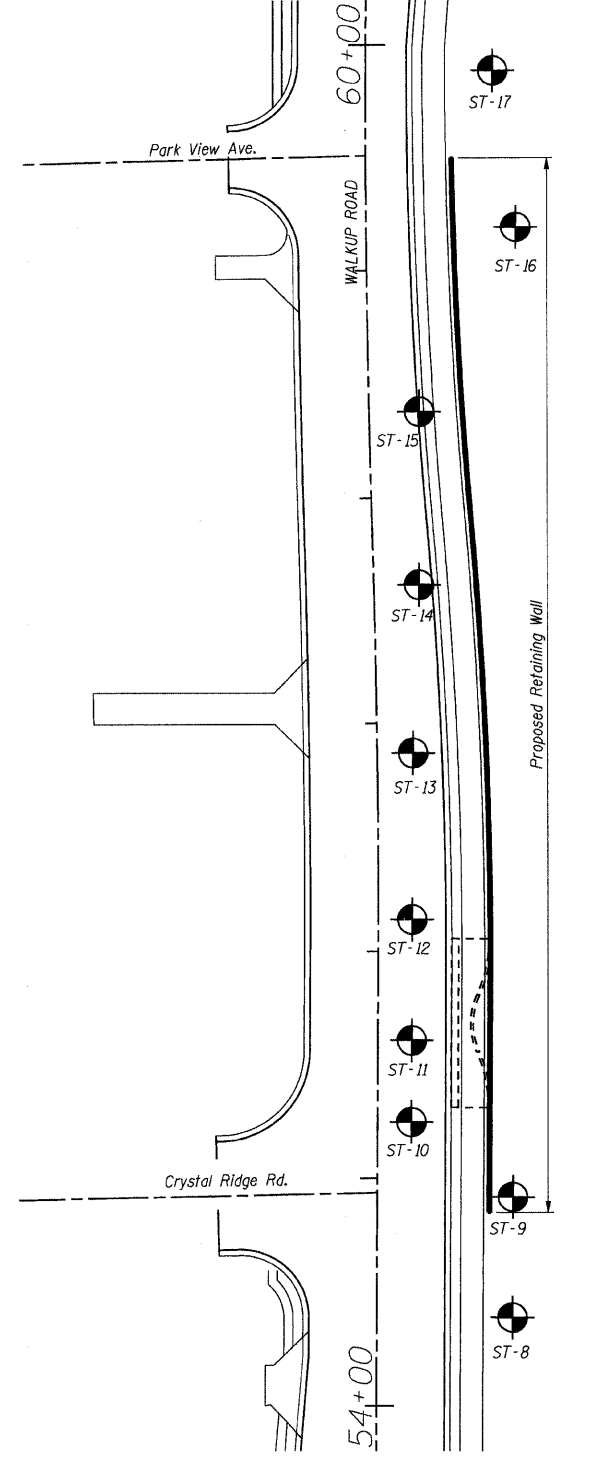
BORING No.: ST-13
 Station: 56+14
 Offset: 17' Right
 Ground Surface Elevation: 912.9 (ft) (67) (wt) (X)

Surface Water Elev.: n/a
 Groundwater Elevation: Dry #D
 Groundwater Elevation: Dry #B
 After Hours: Hours: (ft) (67) (wt) (X)

12.0" ASPHALT, 3.0" CRUSHED STONE
 CLAY LOAM-dark brown to brown-medium stiff to stiff (A-6) Fill
 SAND & GRAVEL-brown-medium dense (A-1)
 SAND, GRAVEL & COBBLES-brown-dense to very dense (A-1-a)
 Auger Refusal @ -16.0'
 Hollow Stem Augers
 CME Automatic Hammer

DEPTH (ft)	LOG	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST	TEST
0										
2										
4										
6										
8										
10										
12										
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50										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (D-Block, S-Shear, P-Parametric) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D208) The Unit Dry Weight (gd) is noted in italics above moist (M)
 NR-No Recovery



SHT. SB-13

REVISIONS	
NAME	DATE

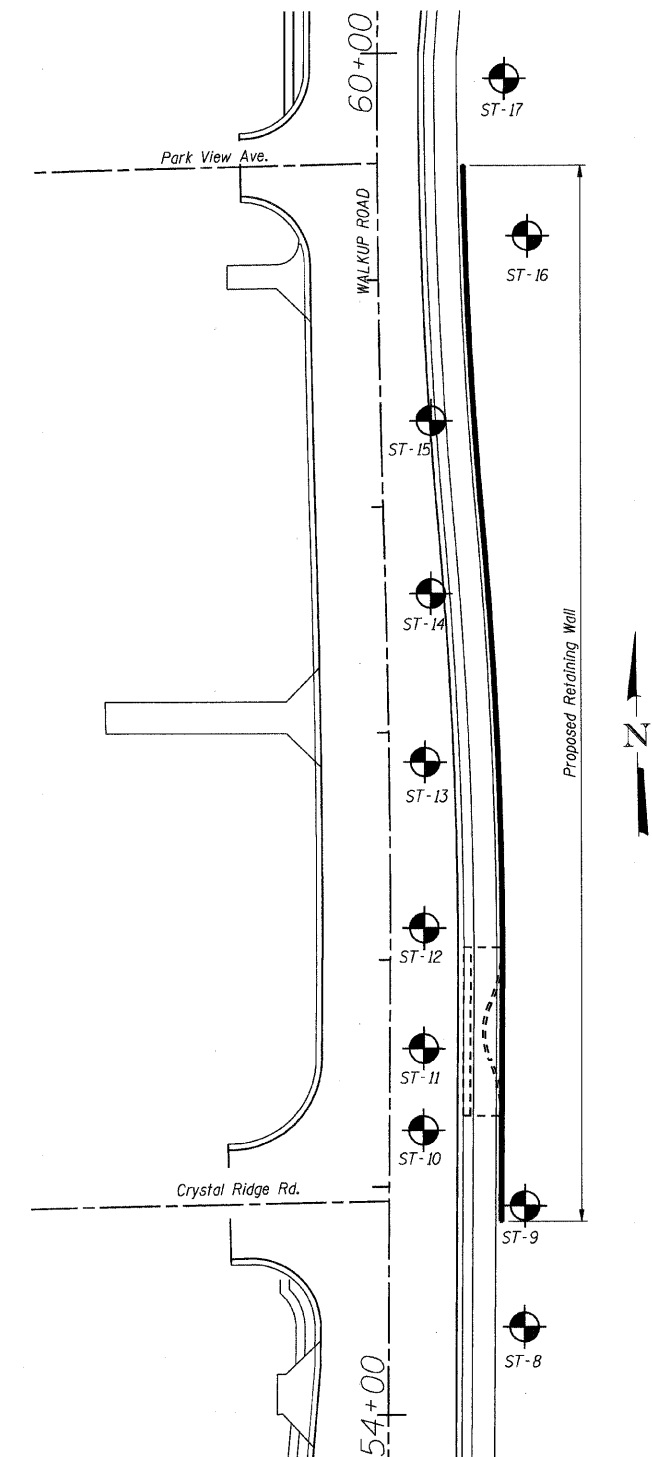
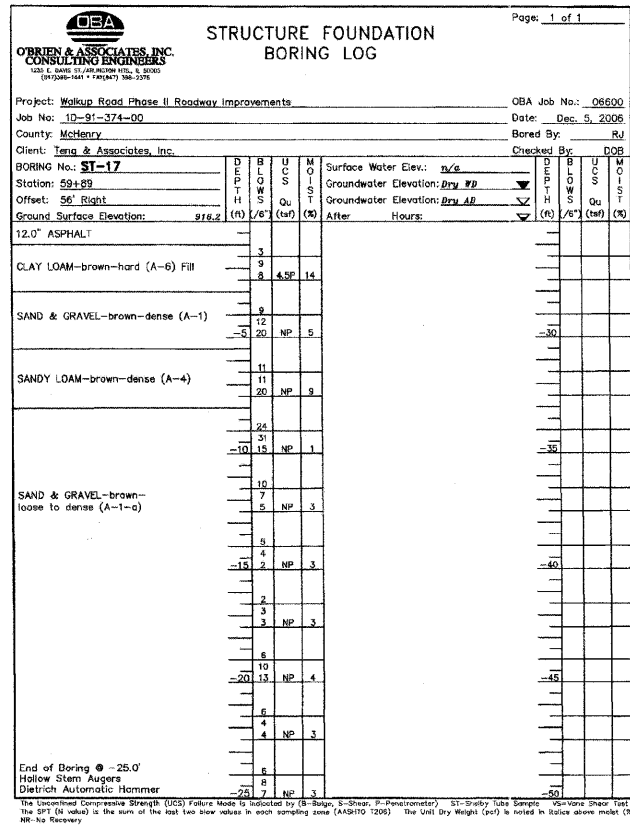
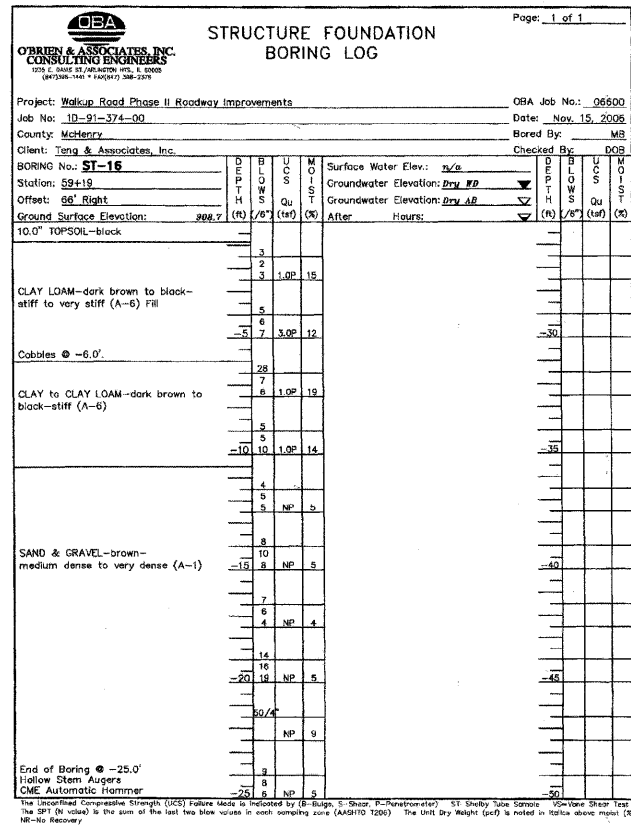
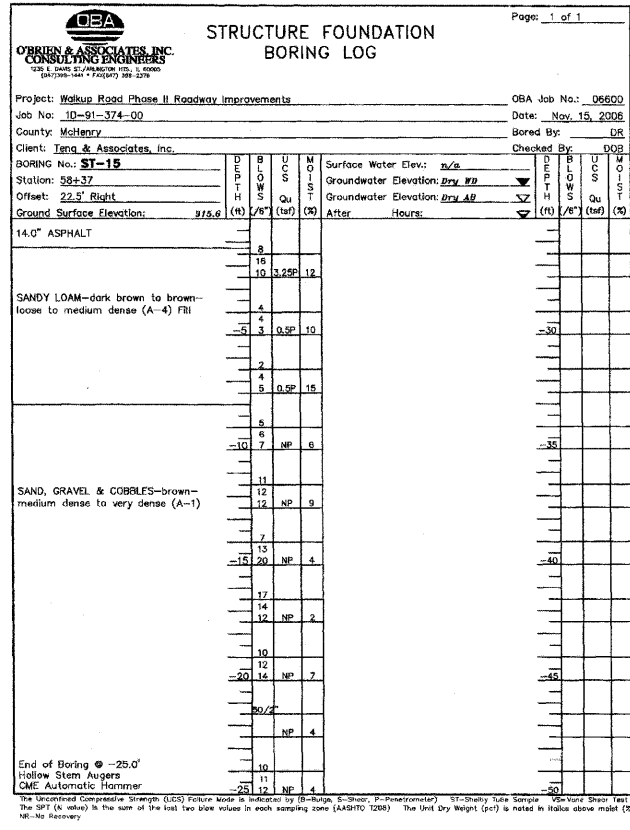
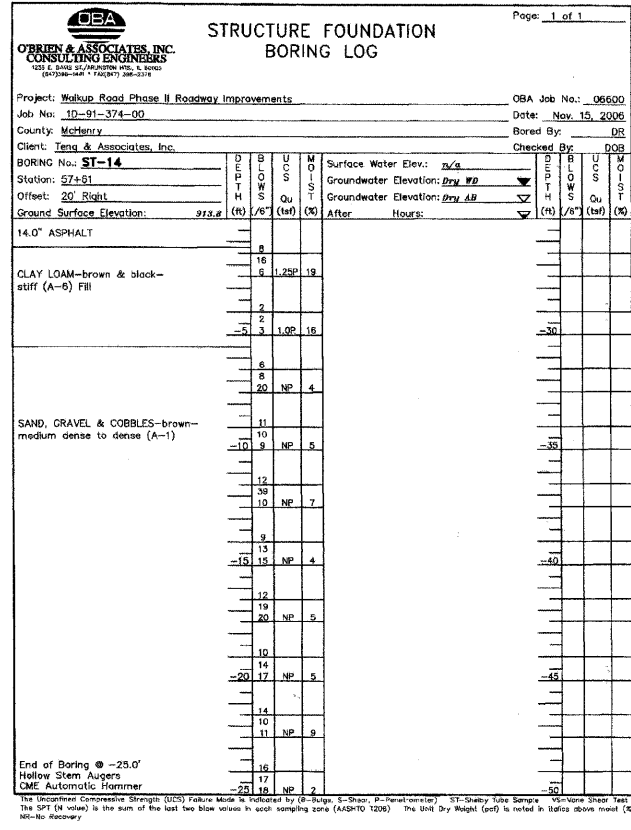
MCHENRY COUNTY DIVISION OF TRANSPORTATION
 WALKUP ROAD F.A.U. 0085
 SECTION 00-00246-02-FP
 STATION 54+85.02 TO 59+49.91
 VETERAN ACRES PARK RETAINING WALL

SOIL BORING LOGS
SHEET 1 OF 2

SCALE: N.T.S. DRAWN BY: MDB
 DATE: 04/15/11 CHECKED BY: TCG

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERING/GEOTECHNICAL PLANNERS
 885 N. MICHIGAN AVE. CHICAGO, IL 60611
 TEL: (312) 849-8000

I:\0085\02\CONV...SBO2\AC01.DWG
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 4/14/2011 12:13



SHT. SB-14

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085
SECTION 00-00246-02-FP
STATION 54+85.02 TO 59+49.91
VETERAN ACRES PARK RETAINING WALL

SOIL BORING LOGS
SHEET 2 OF 2

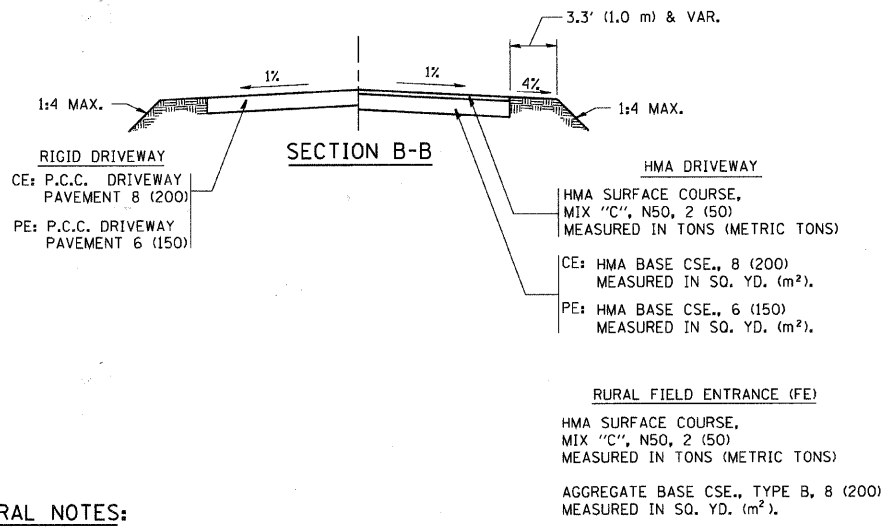
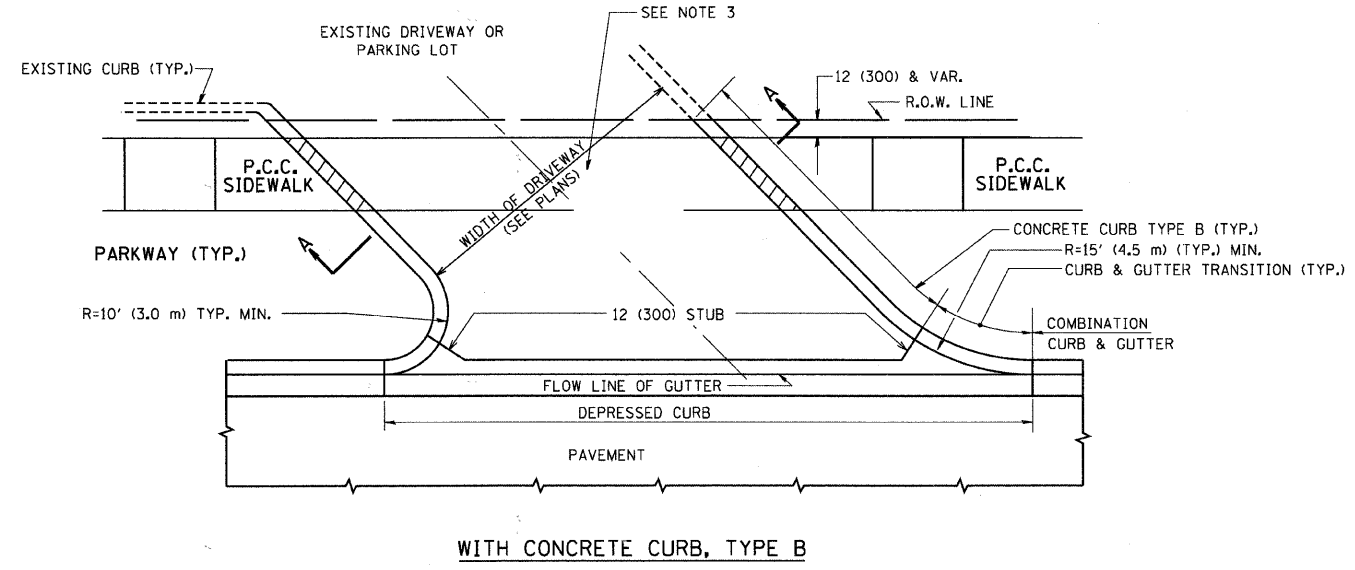
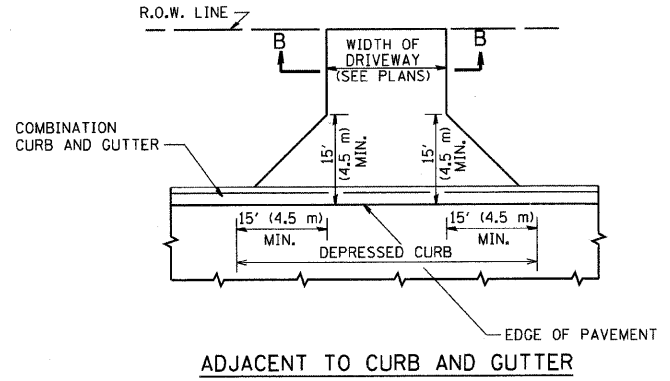
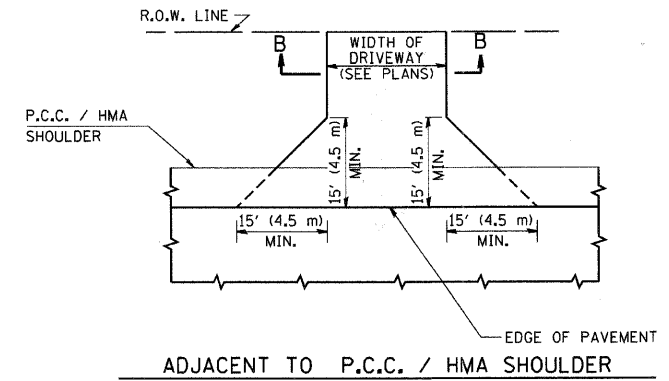
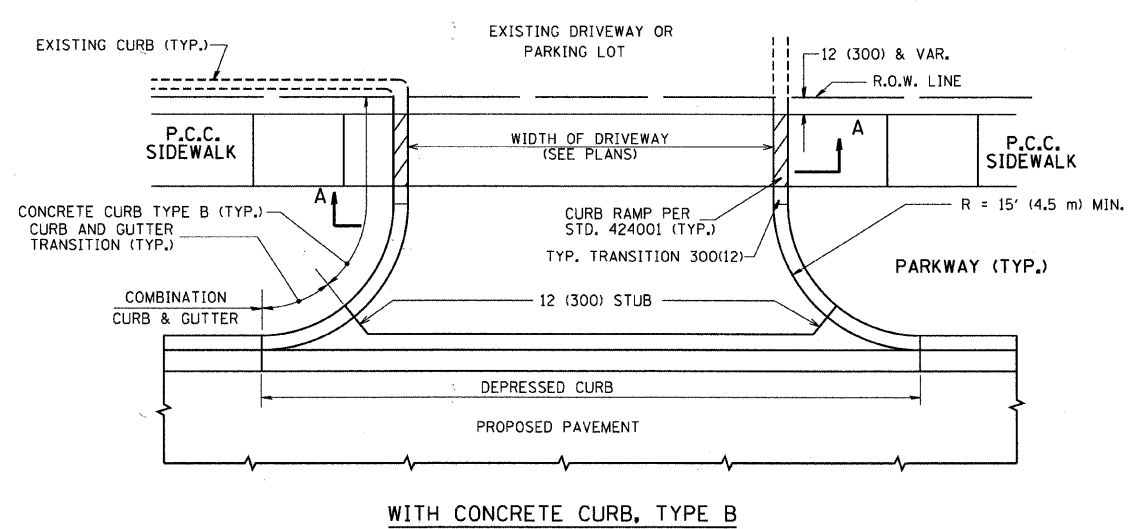
SCALE: N.T.S. DRAWN BY: MDB
DATE: 04/15/11 CHECKED BY: TCG

TENG

O'BRIEN & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/SURVEYORS
305 N. McBRIDEAN AVE. CHICAGO, IL 60601
TELEPHONE: 312-636-4900

\SBO2V\A010100N... \SBO2V\A010100N
 4-10-2011 15:48:18
 \\FS-0044\AM\VAL T.D - TRANS. 07\202\300-03\STRUCT\CA01\02 CONTRACT VIA VETERAN ACRES PARK WALL SHEET\B032\B032\B032.SHT

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	209
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

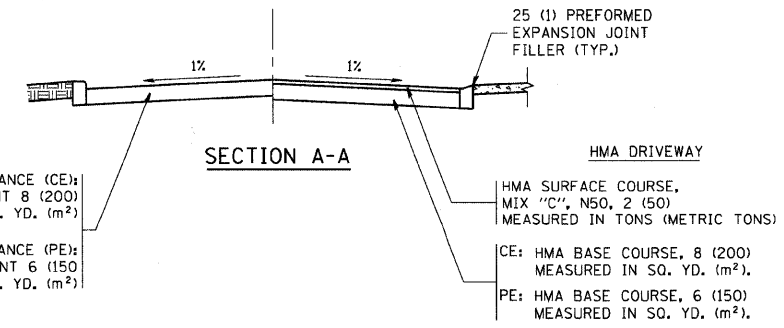
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

REVISIONS	
NAME	DATE
R. SHAH	11-04-95
J. POLLASTRINI	08-12-96
J. POLLASTRINI	12-14-96
A. ABBAS	03-21-97
T. HOLTZ	04-08-97
M. GOMEZ	04-06-01
P. LOFLEUR	04-15-03
R. BORO	01-01-07
R. BORO	06-11-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS

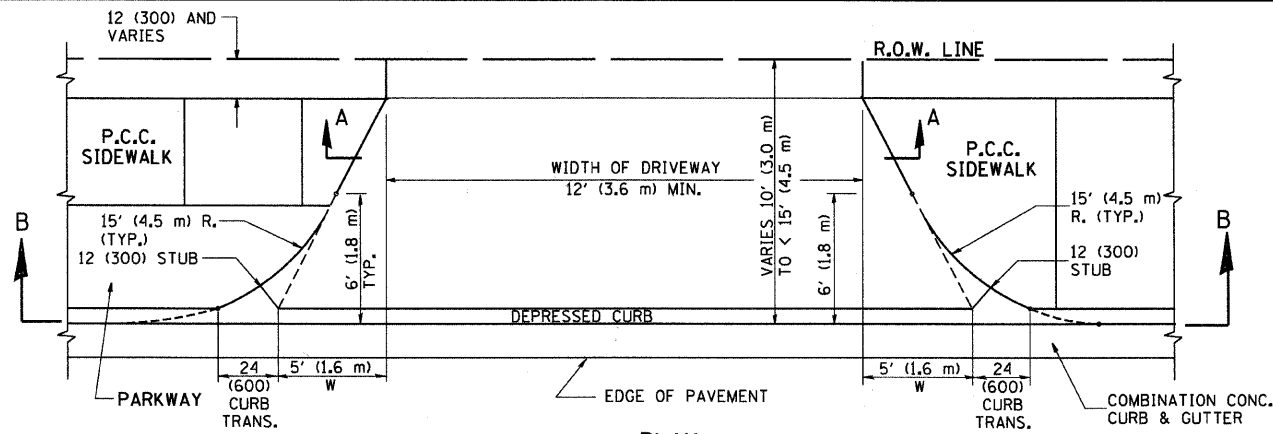
DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER \geq 15' (4.5 m)

SCALE: VERT. NONE
HORIZ.

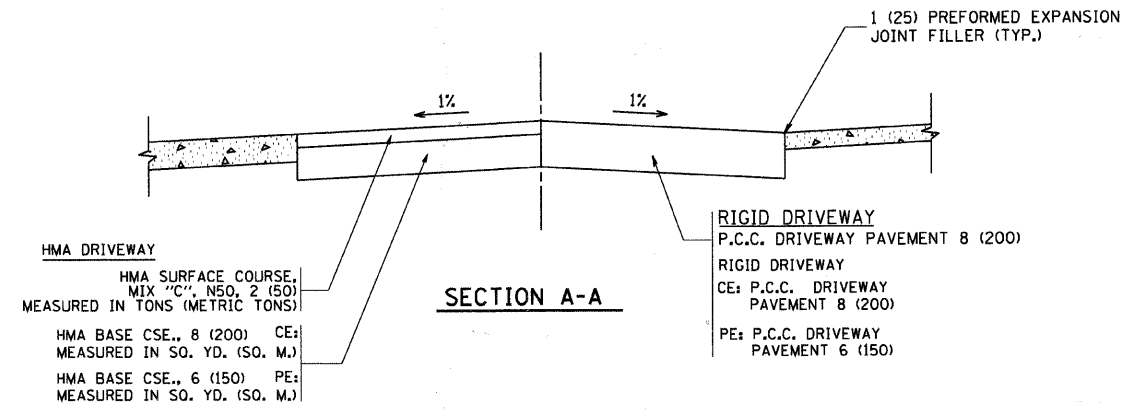
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CHECKED BY

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USER = Bborard

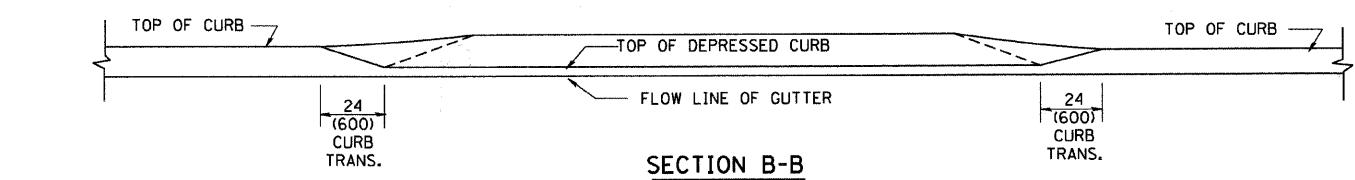
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



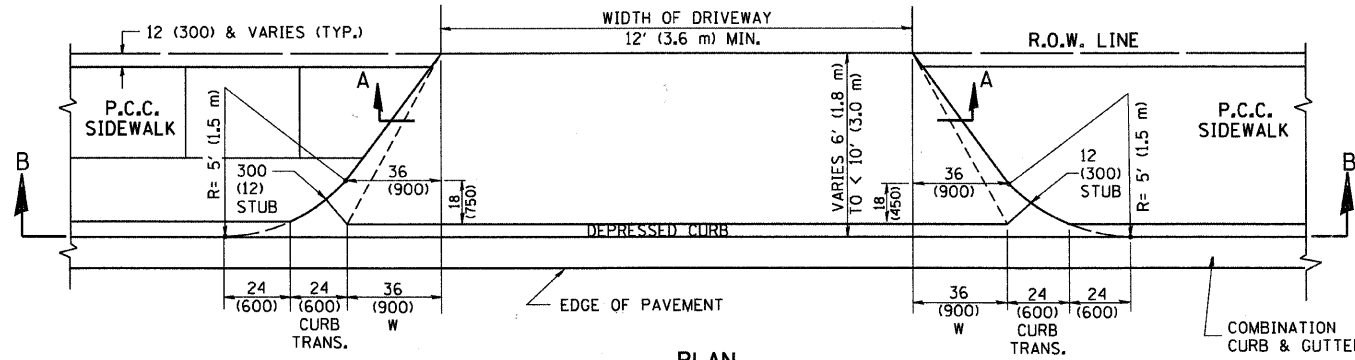
PLAN
10' (3.0 m) TO < 15' (4.5 m)



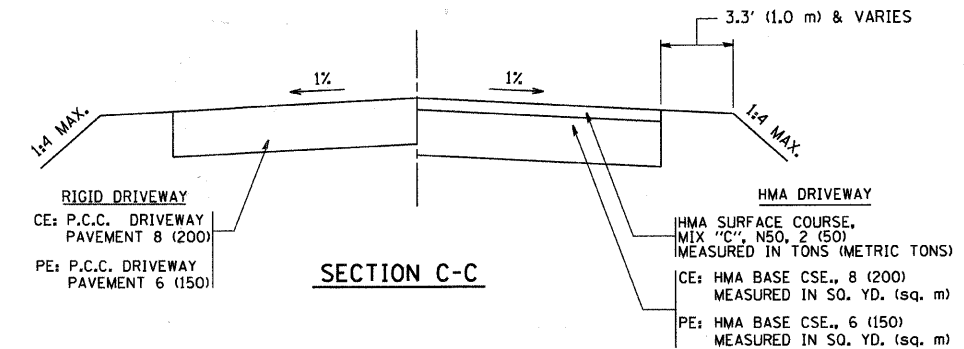
SECTION A-A



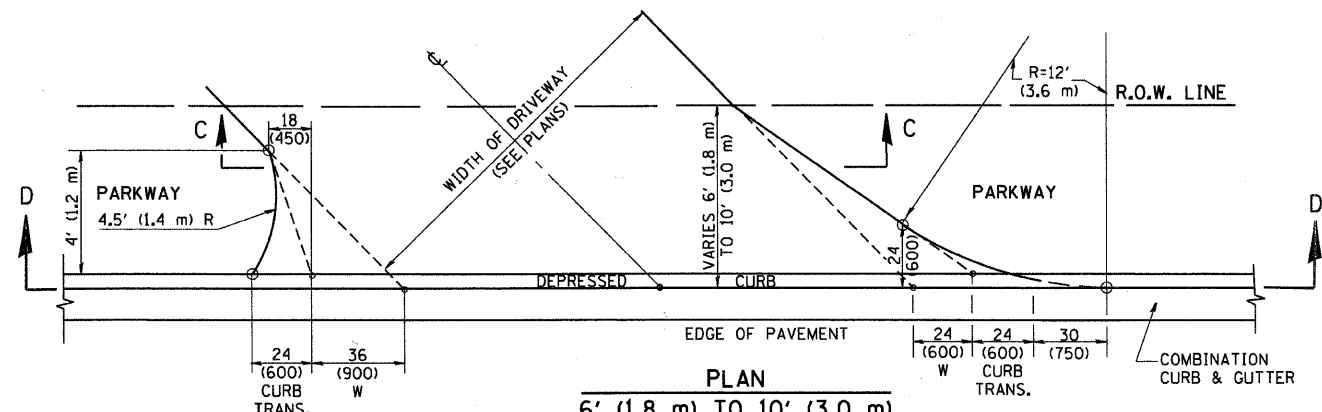
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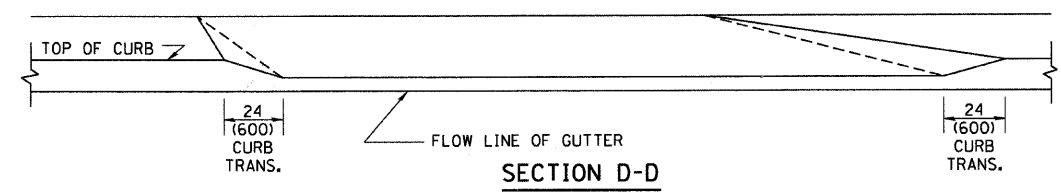
PLAN
6' (1.8 m) TO < 10' (3.0 m)



SECTION C-C



PLAN
6' (1.8 m) TO 10' (3.0 m)



SECTION D-D

GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATION 10 IN THE PERMIT HANDBOOK. WHERE SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED WITH RIGID PAVEMENT. WHERE NO SIDEWALKS EXIST, DRIVEWAYS SHALL BE REPLACED IN KIND. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

WHEN THE DISTANCE BETWEEN R.O.W. AND THE BACK OF CURB IS EQUAL TO OR LESS THAN 8' (2.4 m), THE P.C.C. SIDEWALK SHALL EXTEND TO THE BACK OF CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

THE 1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

"W" VARIES FROM 36 (900) TO 5' (1.5 m) PROPORTIONAL TO THE LENGTH (L), FROM 6' (1.8 m) TO 10' (3 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS
DISTANCE BETWEEN ROW AND FACE OF CURB < 15' (4.5 m)

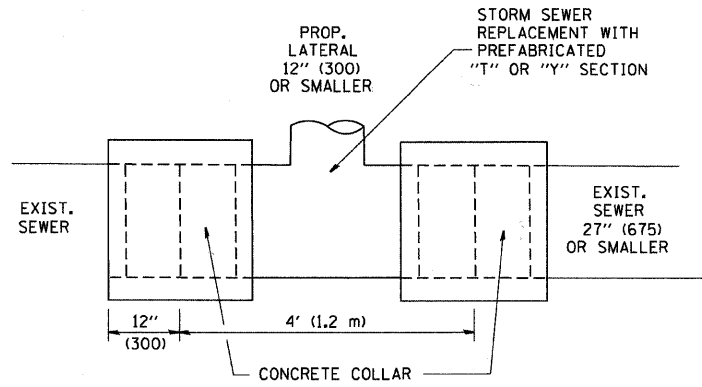
REVISIONS	
NAME	DATE
R. SHAH	11/06/95
J. POLLASTRINI	08/12/96
J. POLLASTRINI	12/14/96
A. ABBAS	03/21/97
T. HOLTZ	04/08/97
M. GOMEZ	04/06/01
P. LOFLEUR	04/15/03
R. BORO	01/01/07

SCALE: VERT. NONE
HORIZ.

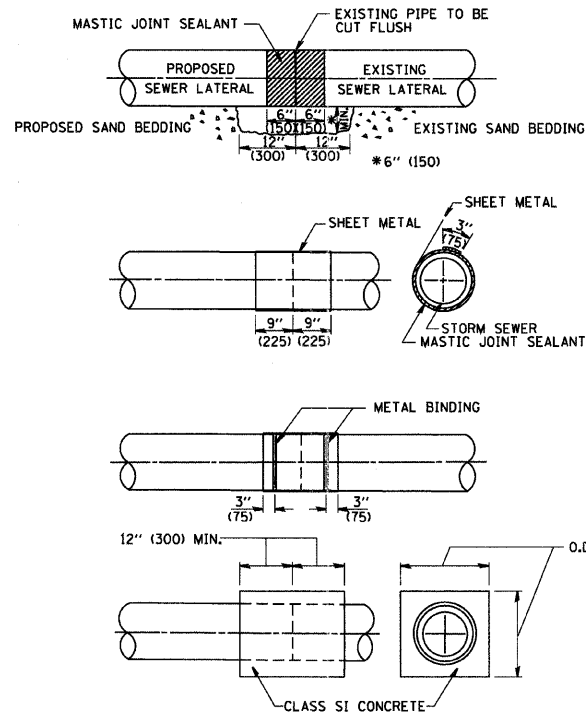
DRAWN BY
CHECKED BY

PLOT DATE = 2/26/2007
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PLOT SCALE = 3/8" = 1'-0"
USER NAME = bauer-dl

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	211
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



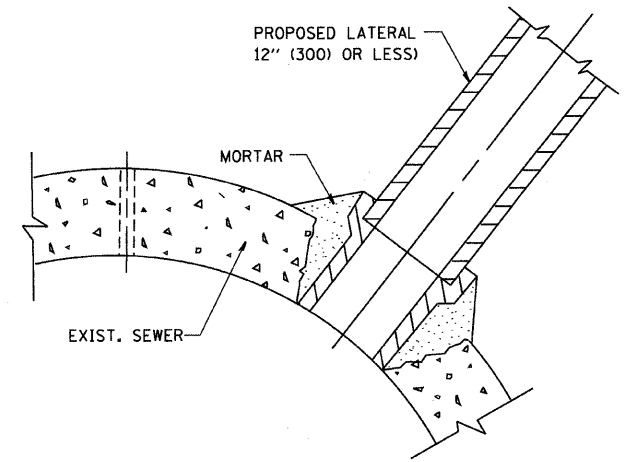
DETAIL "A"
LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



DETAIL "B"
CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12' x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OZZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.



DETAIL "C"
PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

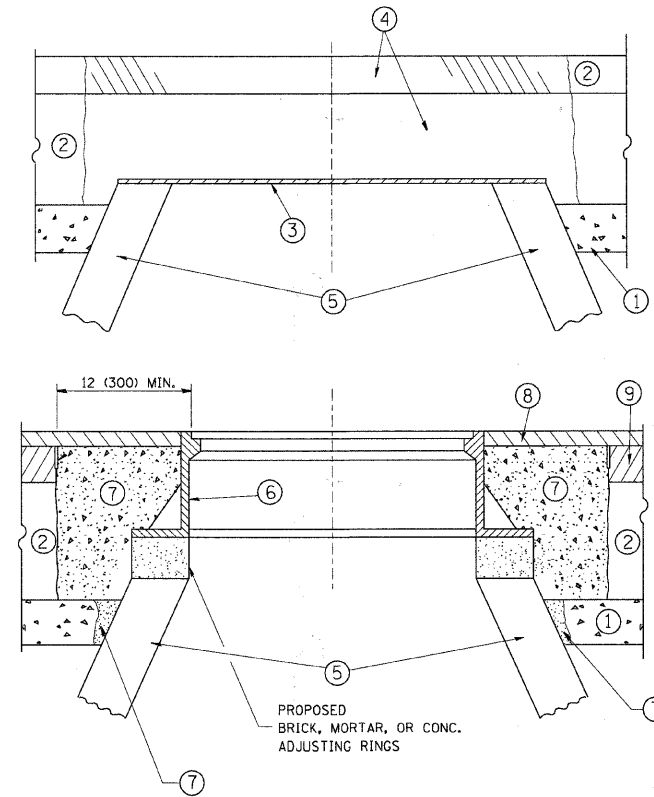
REVISIONS	
NAME	DATE
M. DE YONG	07/25/90
M. DE YONG	02/05/92
M. DE YONG	05/08/92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	06/12/96

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	212
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
 - B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL" NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07
R. BORO	03/09/11

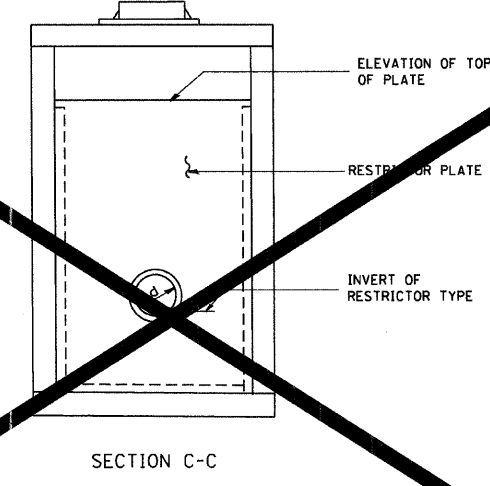
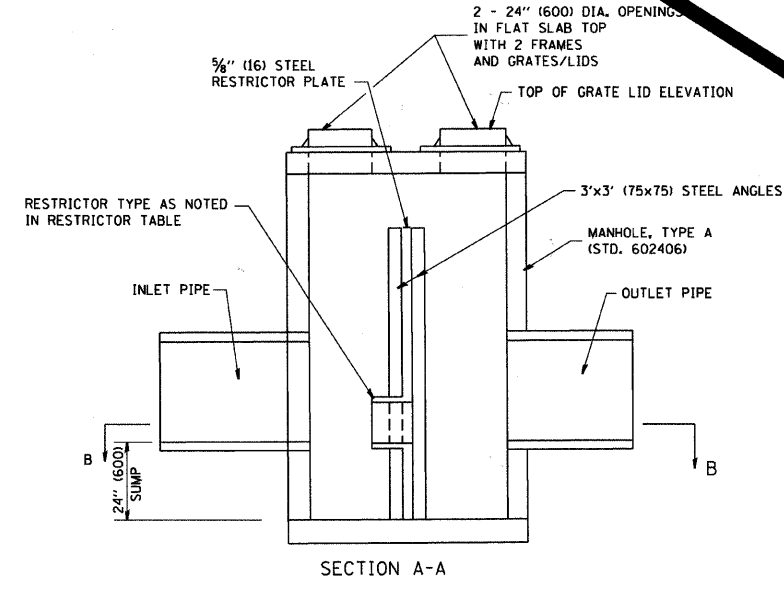
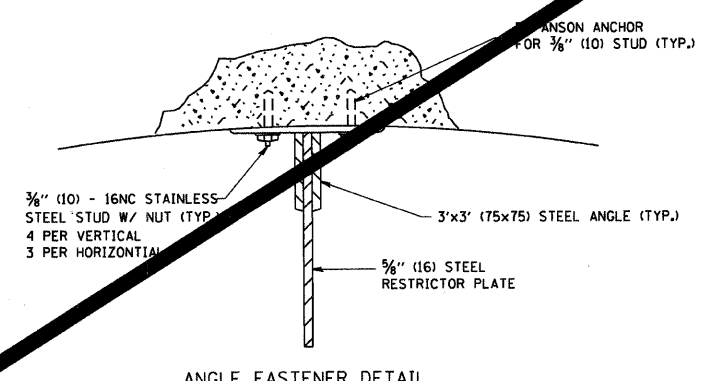
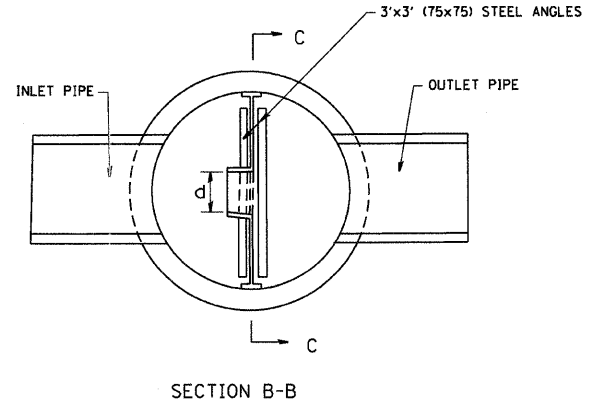
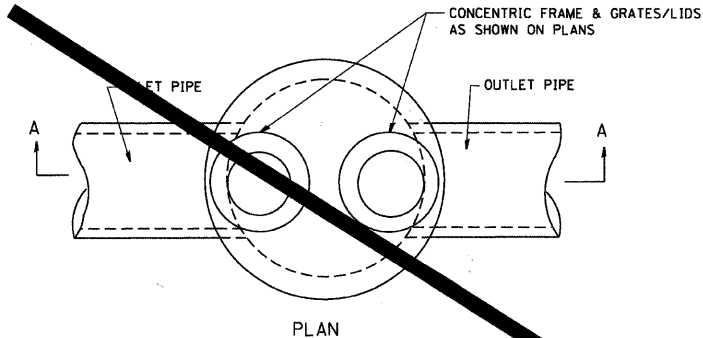
ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS FOR
FRAMES AND LIDS ADJUSTMENT
WITH MILLING

SCALE: VERT. NONE
HORIZ. NONE

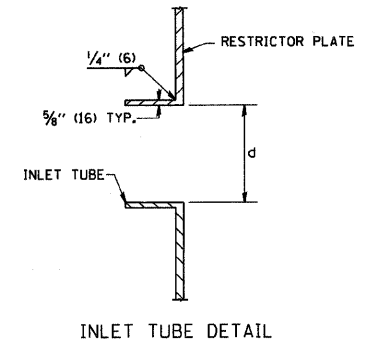
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CHECKED BY

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 USER NAME = lenga

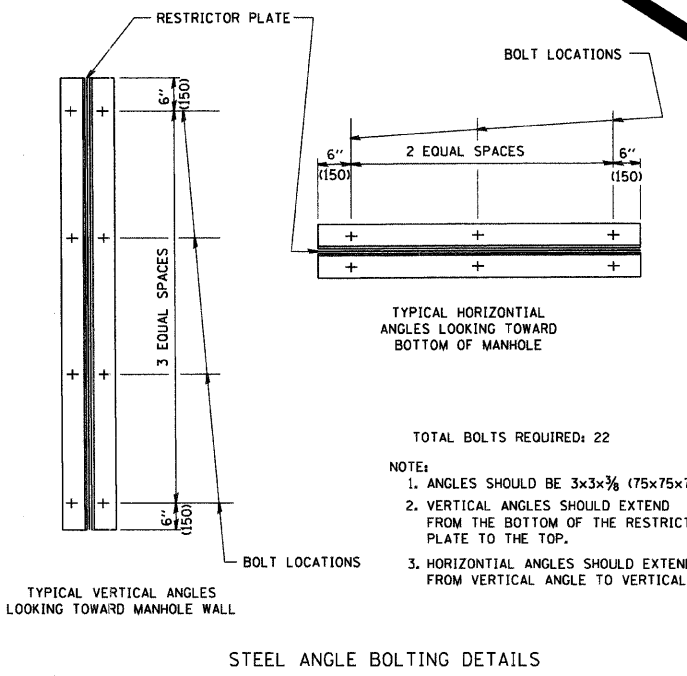
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	213
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT



- NOTES:
- ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
 - ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
 - BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE I, FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION TOP OF PLATE OVERFLOW



- TOTAL BOLTS REQUIRED: 22
- NOTE:
- ANGLES SHOULD BE 3x3x3/8 (75x75x75)
 - VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
 - HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

REVISIONS	
NAME	DATE
R. SHAH	09/09/94
R. SHAH	10/25/94
E. GOMEZ	08/28/00
M. GOMEZ	01/08/01

ILLINOIS DEPARTMENT OF TRANSPORTATION

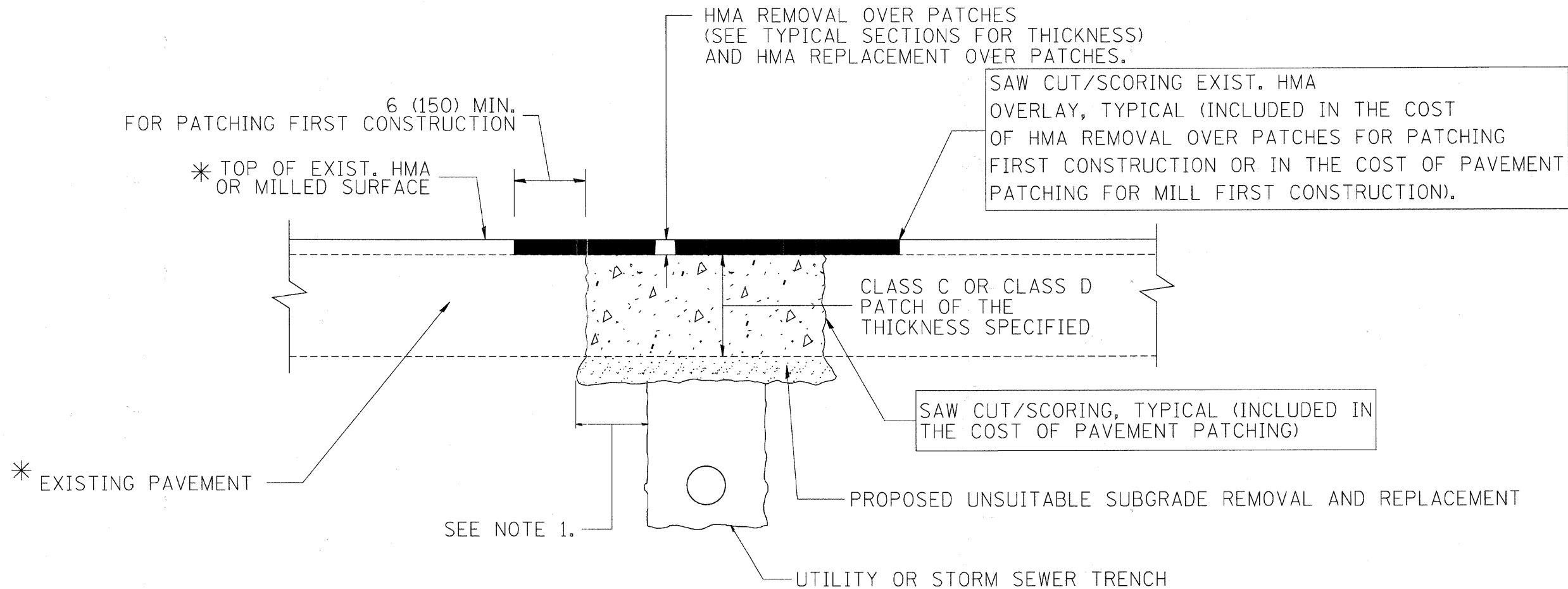
MANHOLE WITH RESTRICTOR PLATE

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

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PLOT SCALE = 1/8" = 1'-0"
USER NAME = bauer-dj

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	214
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07
R. BORO	09/04/07
K. ENG	10/27/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

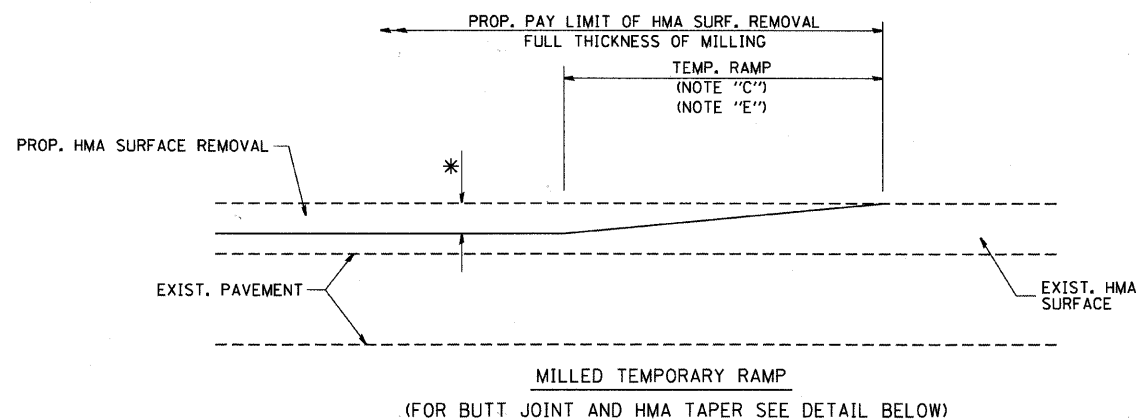
SCALE: VERT. NONE
HORIZ.

DRAWN BY

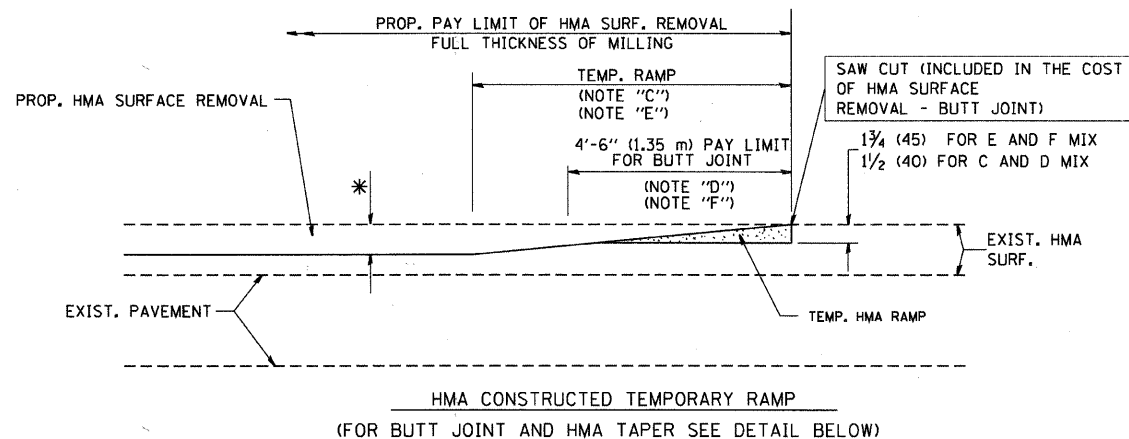
CHECKED BY

BD400-04 (BD-22)

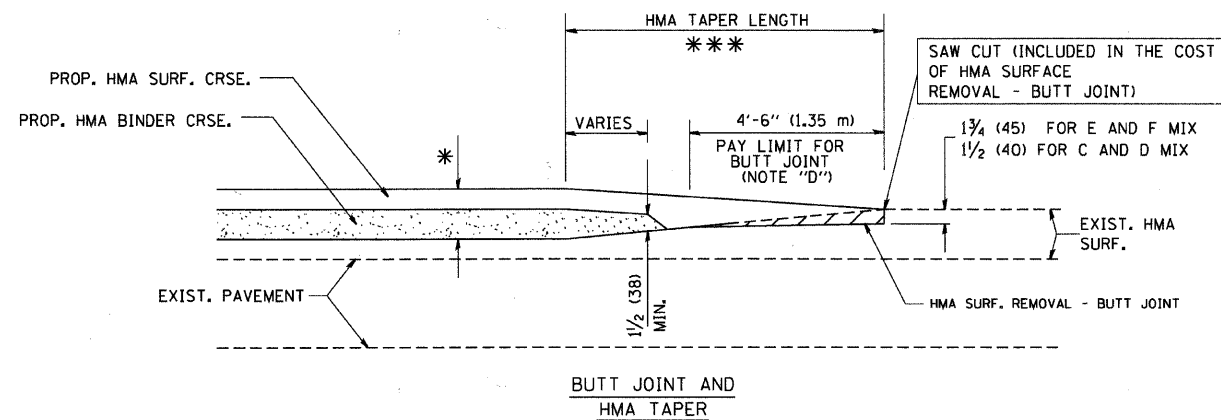
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



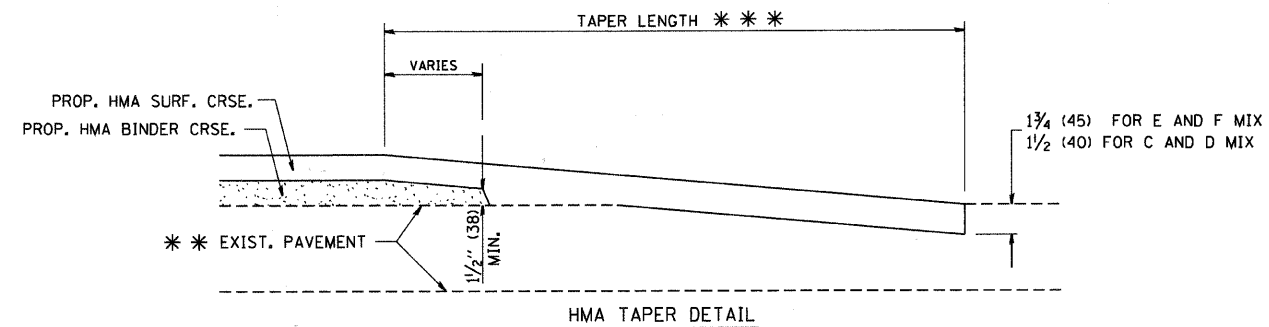
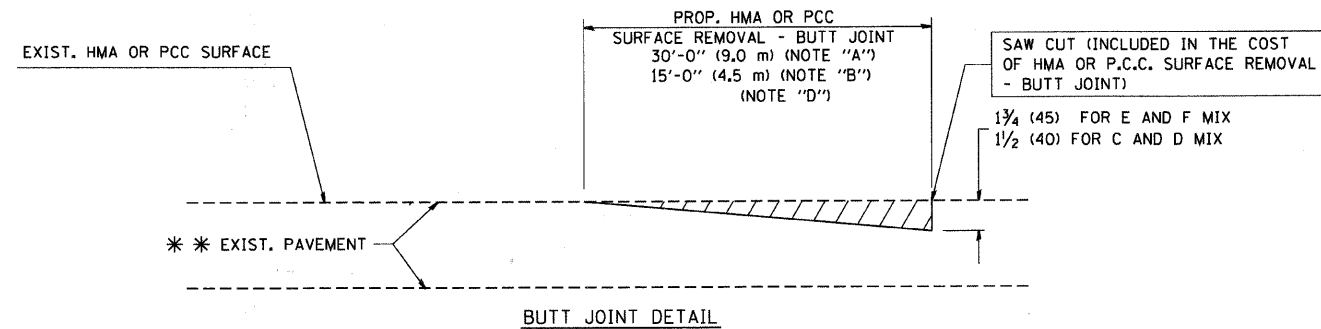
OPTION 1



OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER
DETAILS

SCALE: VERT. NONE
HORIZ.

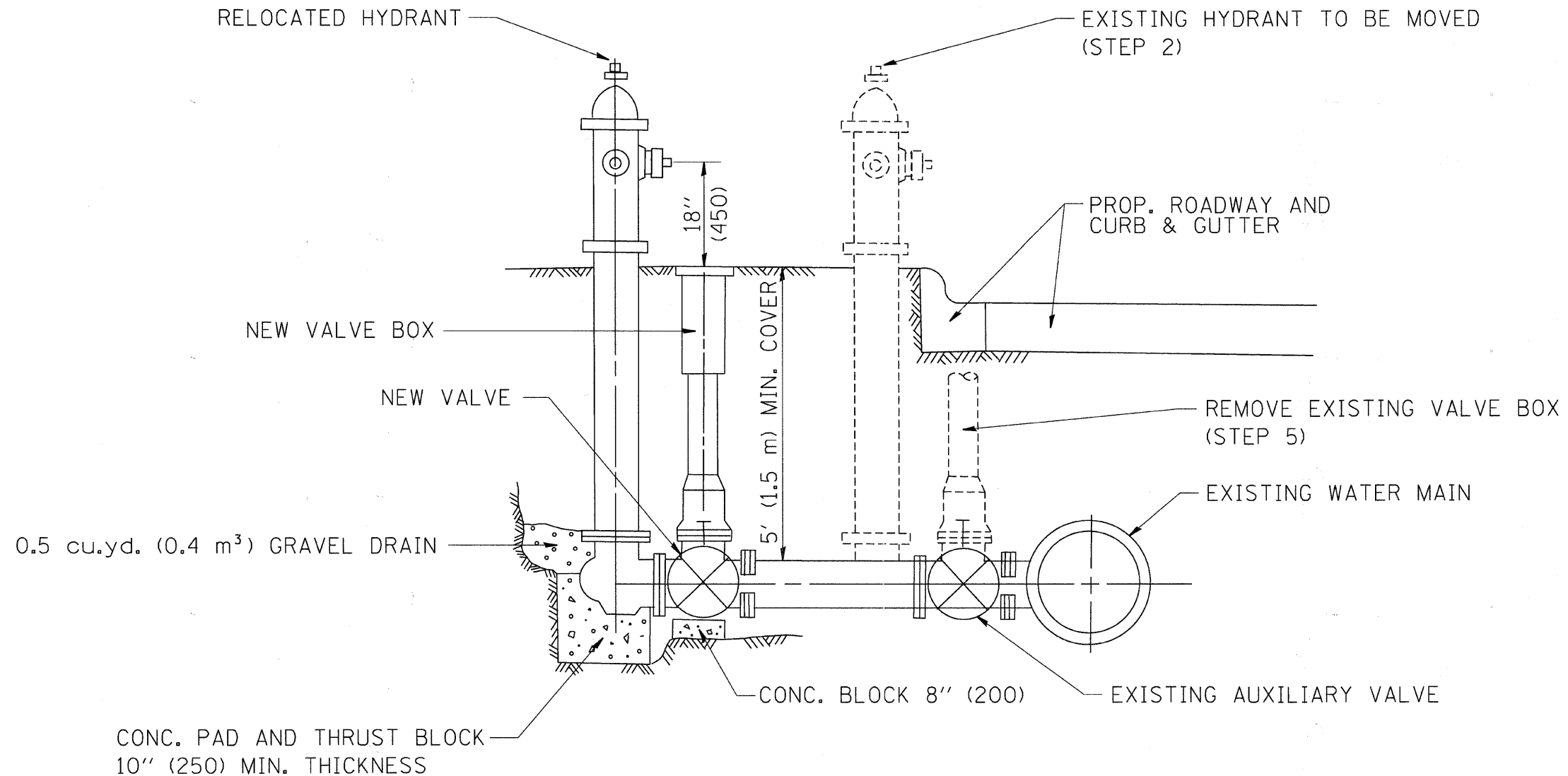
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CHECKED BY

BD400-05 (VI-BD32)

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	216
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. SHAH	09/09/94
R. SHAH	10/25/94

ILLINOIS DEPARTMENT OF TRANSPORTATION

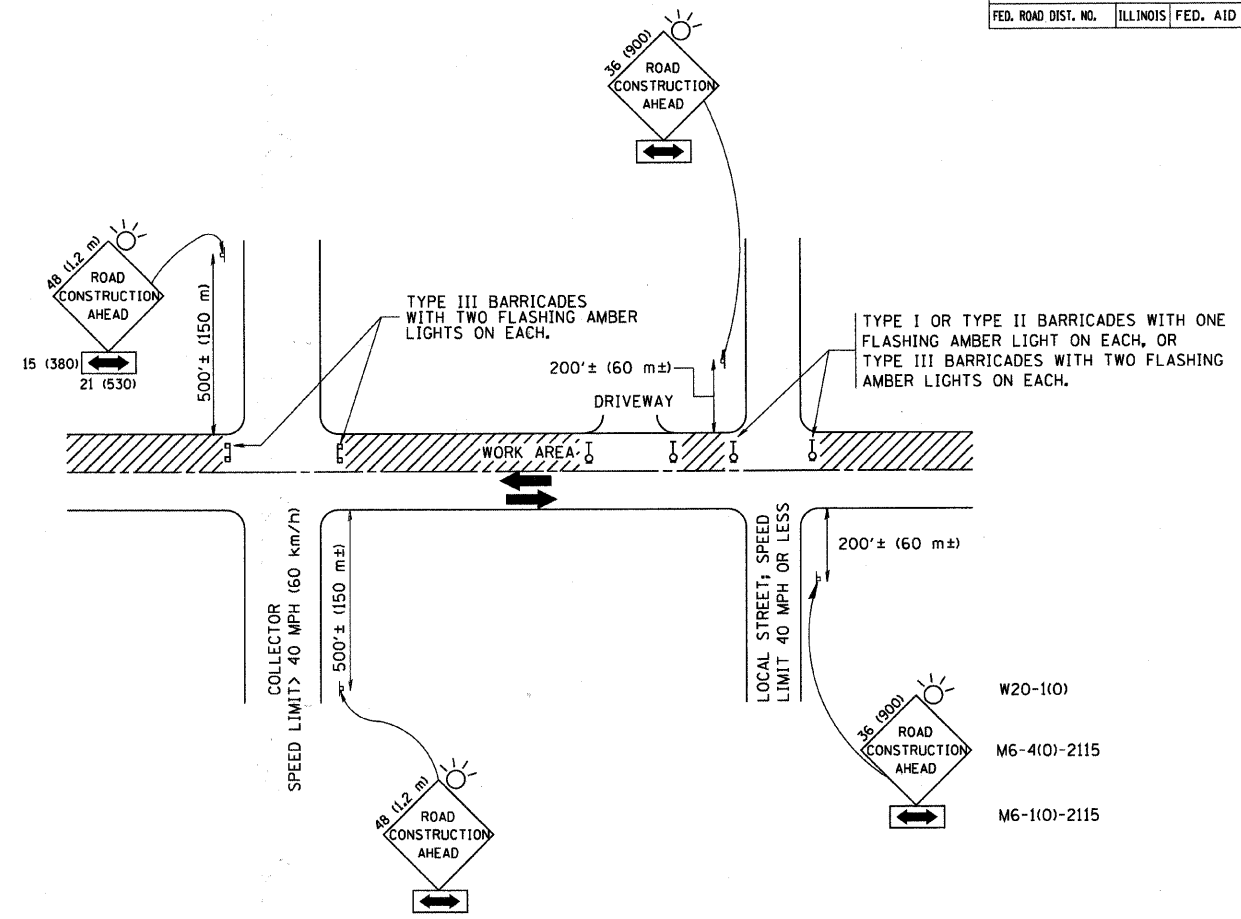
FIRE HYDRANT
TO BE MOVED

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

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 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = bauer-dl

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	217
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

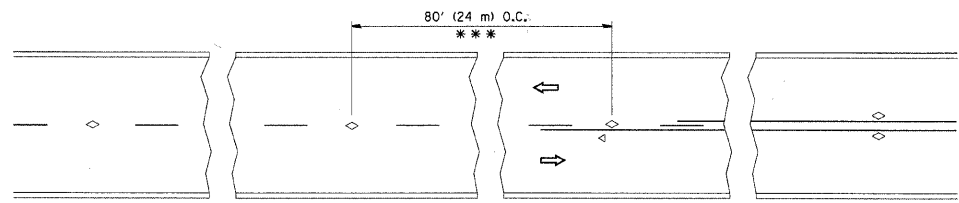
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL AND PROTECTION
 FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS

SCALE: NONE

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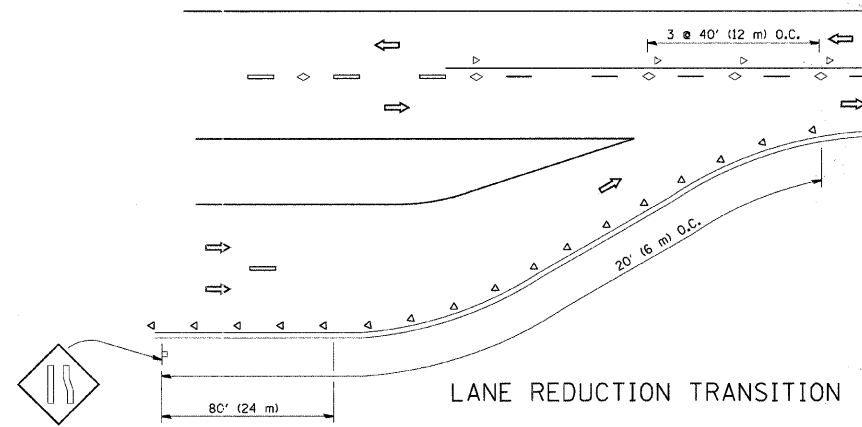
TC-10

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

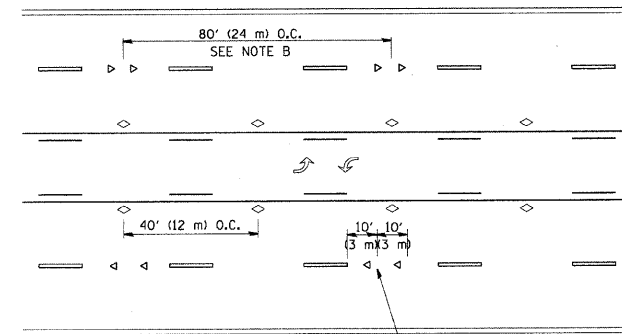


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

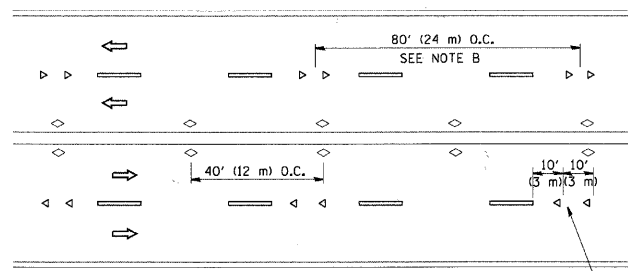
TWO-LANE/TWO-WAY



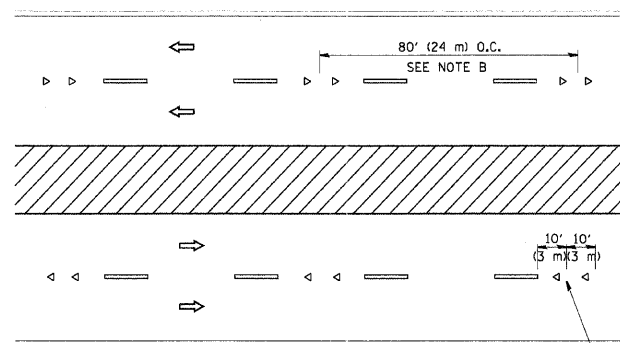
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◊ TWO-WAY AMBER MARKER

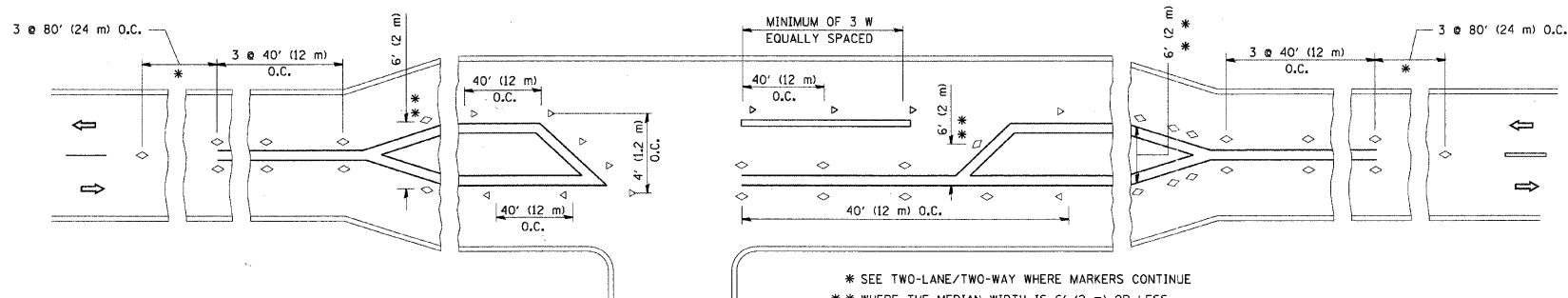
LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

All dimensions are in inches (millimeters) unless otherwise shown.



LEFT TURN

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00
C. JUCLIS	09-09-09

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT
 MARKERS (SNOW-PLOW RESISTANT)

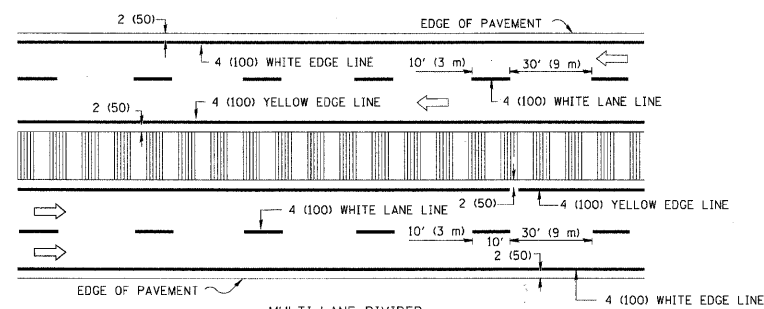
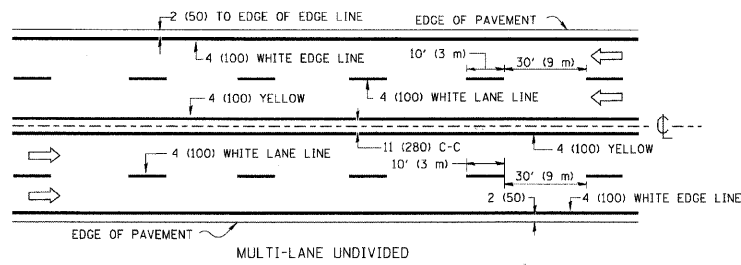
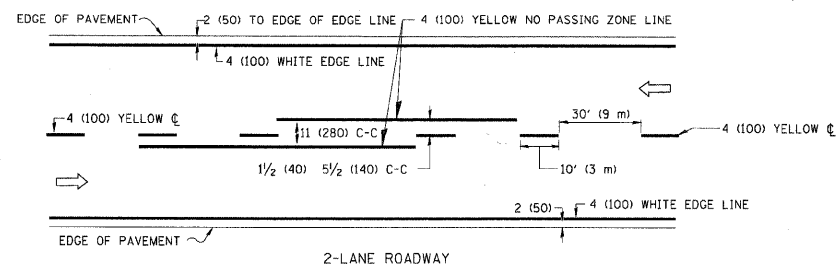
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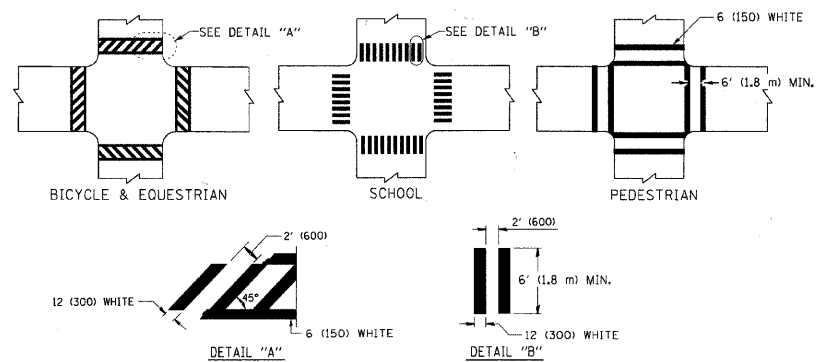
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	219
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

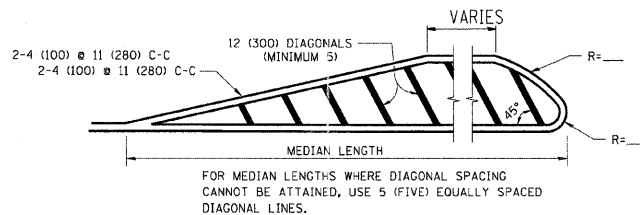
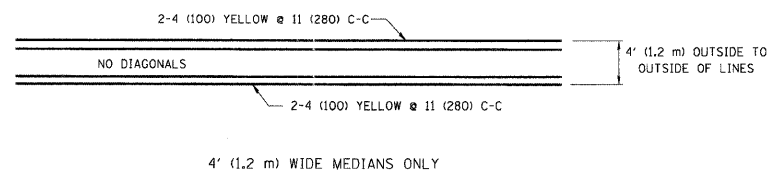


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

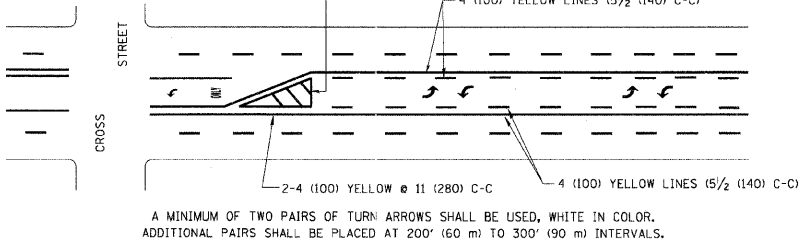


TYPICAL CROSSWALK MARKING

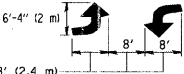


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

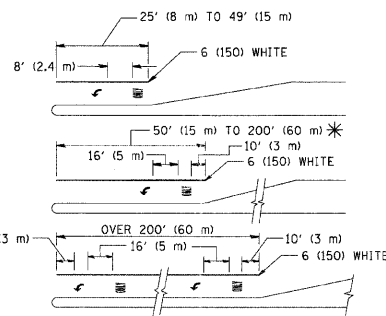


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

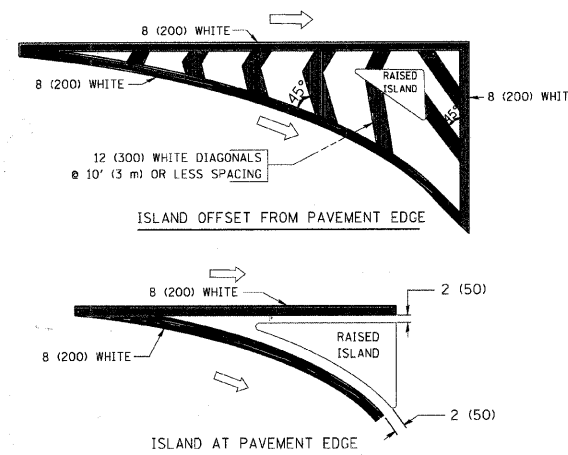


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100)	SKIP-DASH	WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
LANE LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	5 (125) ON FREEWAYS	SKIP-DASH	WHITE	
DOTTED LINES	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW. EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
TWO WAY LEFT TURN MARKING	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN)	2 @ 6 (150)	SOLID	WHITE	NOT LESS THAN 6' (1.8 m) APART
CROSSWALK LINES (BIKE & EQUESTRIAN)	12 (300) @ 45°	SOLID	WHITE	2' (600) APART
CROSSWALK LINES (LONGITUDINAL BARS (SCHOOL))	12 (300) @ 90°	SOLID	WHITE	2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
C. JUCIUS	09-09-09

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT
MARKINGS

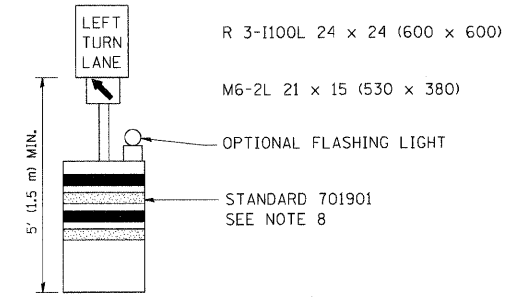
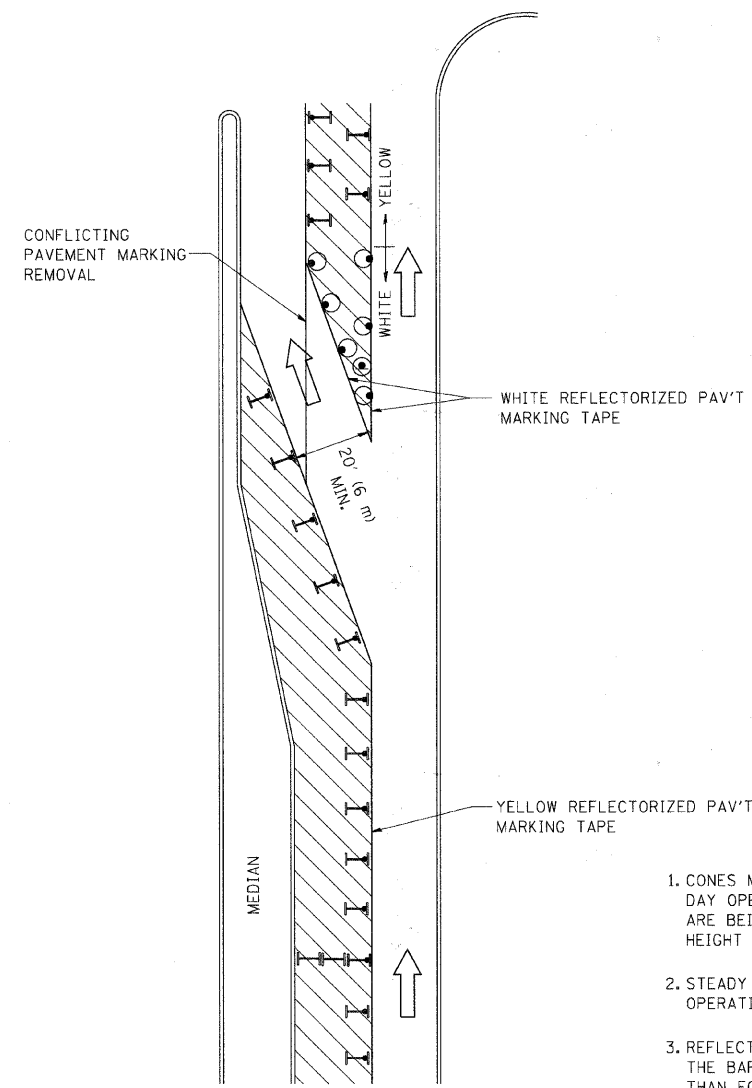
SCALE: NONE

DRAWN BY CADD

CHECKED BY

TC-13

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	220
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

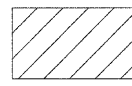







GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00
R. BORO	09/14/09

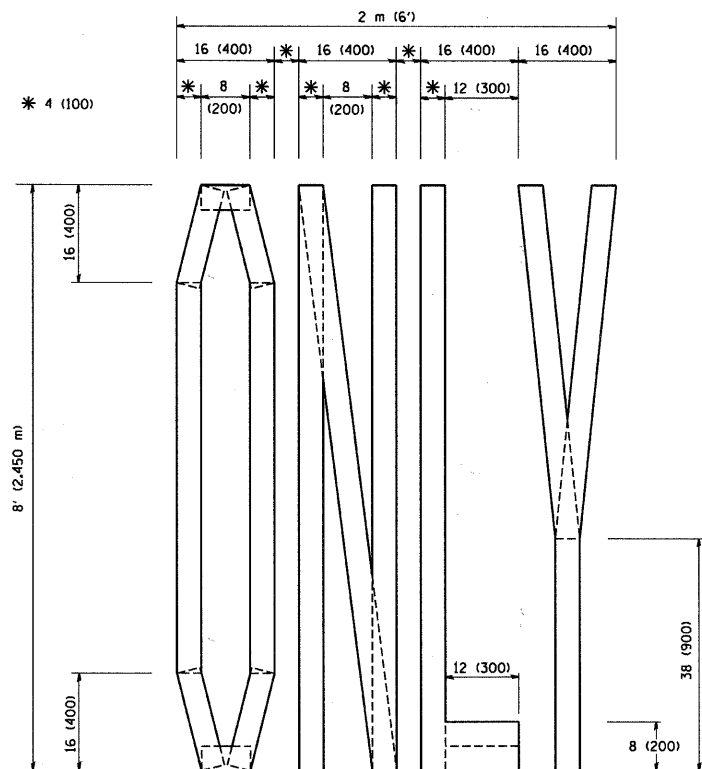
ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 AT TURN BAYS
 (TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE

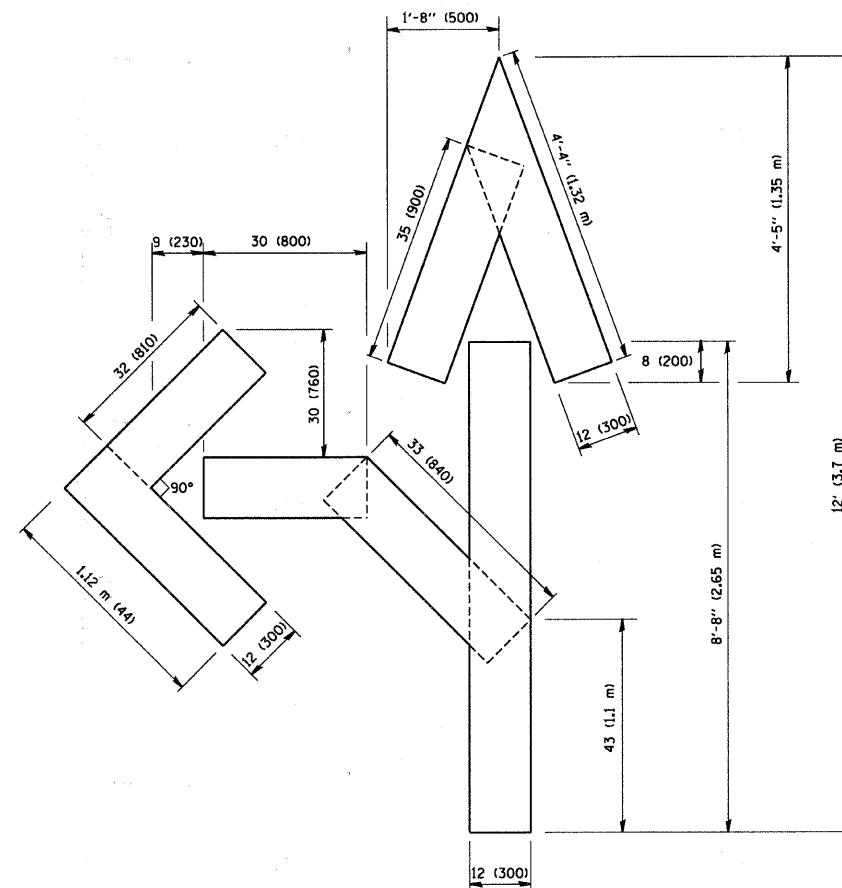
DRAWN BY
 CHECKED BY LHA
 TC-14

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 USER NAME = urivakosn

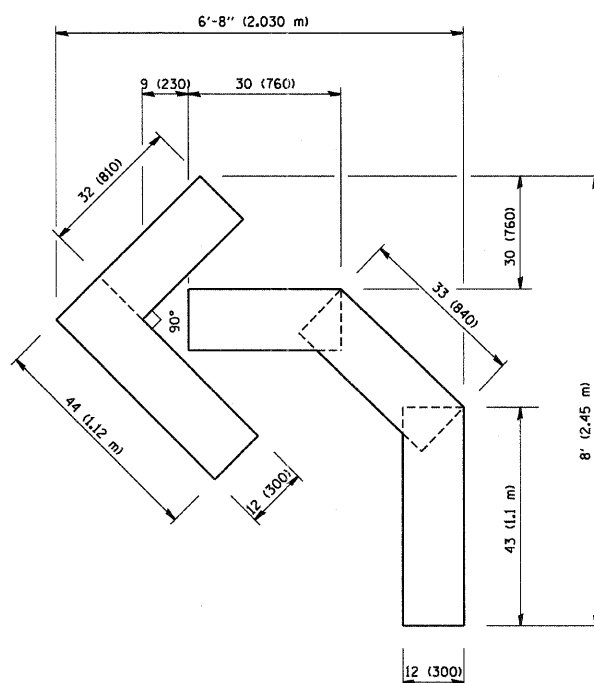
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	221
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

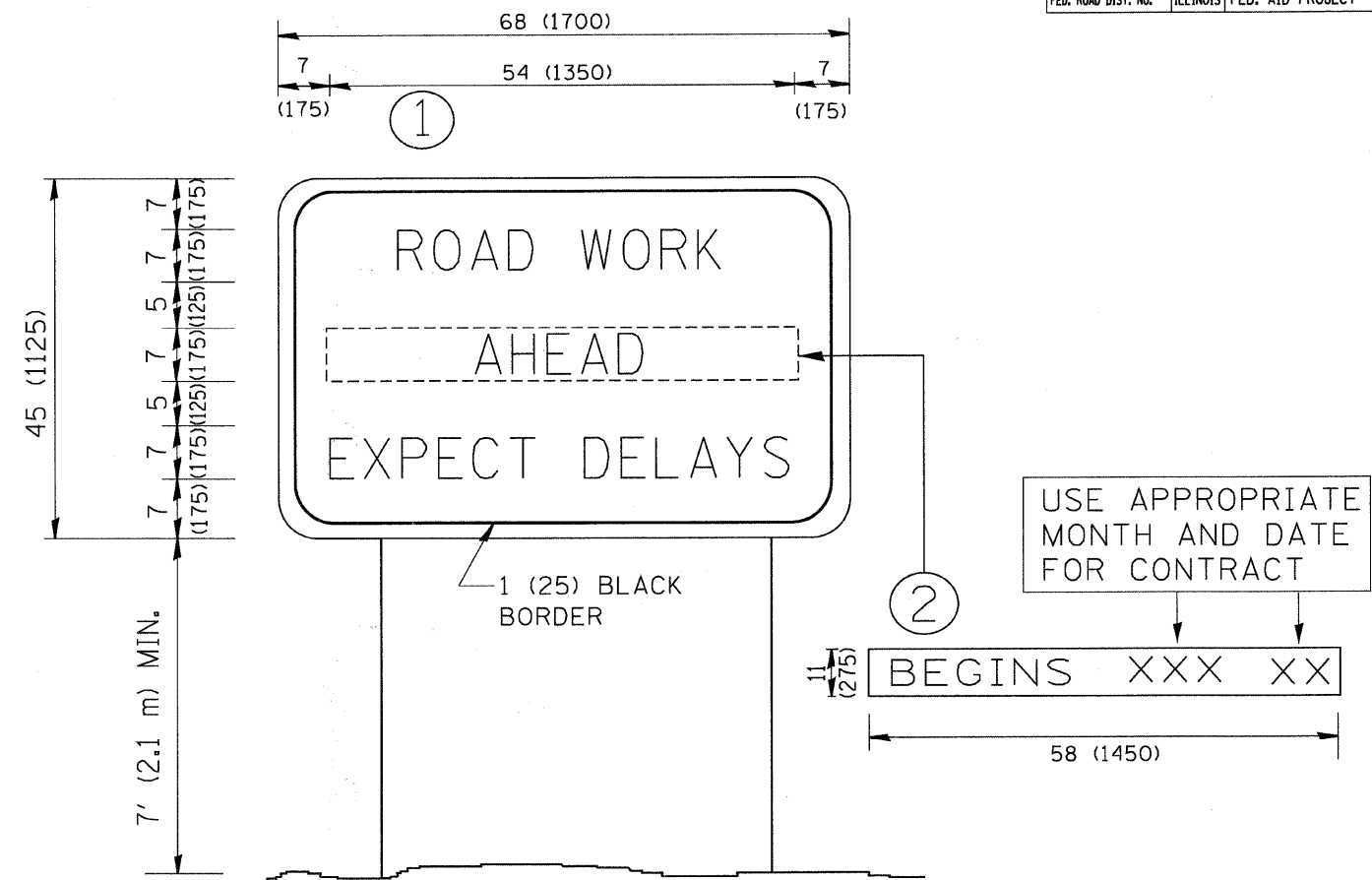
ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING
 LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

SCALE: NONE

DRAWN BY CADD
 CHECKED BY
 TC-16

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	222
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE

DRAWN BY DESIGN

CHECKED BY

TC22

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	223
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

PLOT DATE = 3/9/2007
 FILE NAME = K:\dists\atc26.dgn
 PLOT SCALE = 60.000 / IN.
 USER NAME = bawardl

REVISIONS	
NAME	DATE
C. JUcius	02/15/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

**DRIVEWAY ENTRANCE
SIGNING**

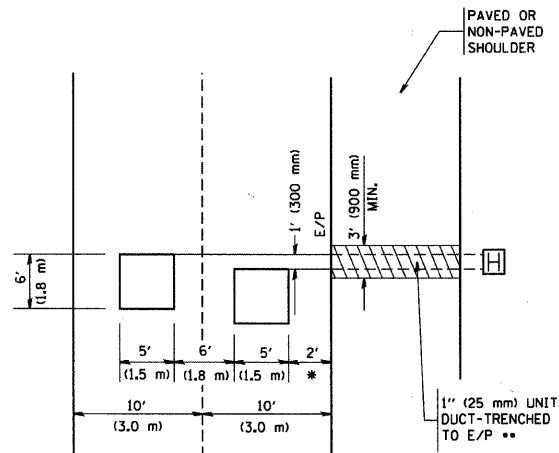
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DATE

DRAWN BY R.H.
CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	225
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT
NOTE WHICH SHOULD EQUAL
3' (900 mm) X WIDTH OF
PAVED SHOULDER.

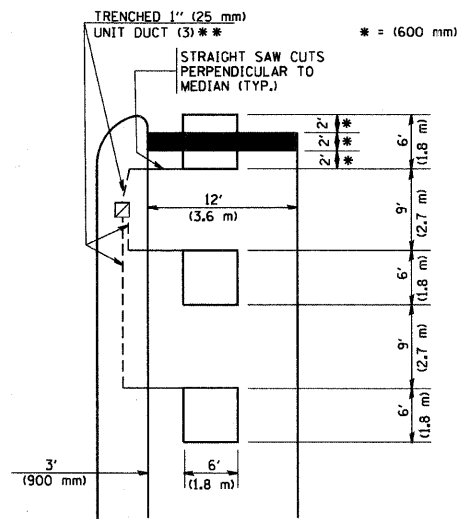


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

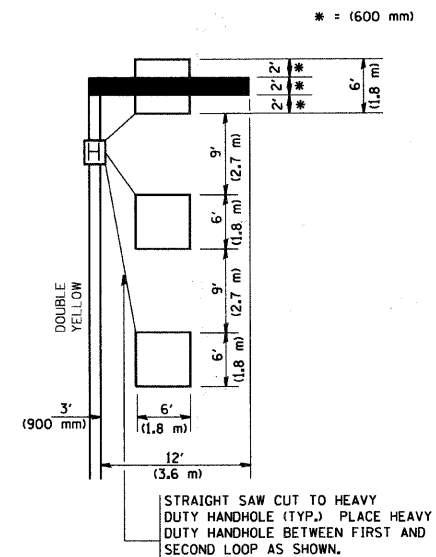
HANDHOLE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS.
HEAVY-DUTY HANDHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DIMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

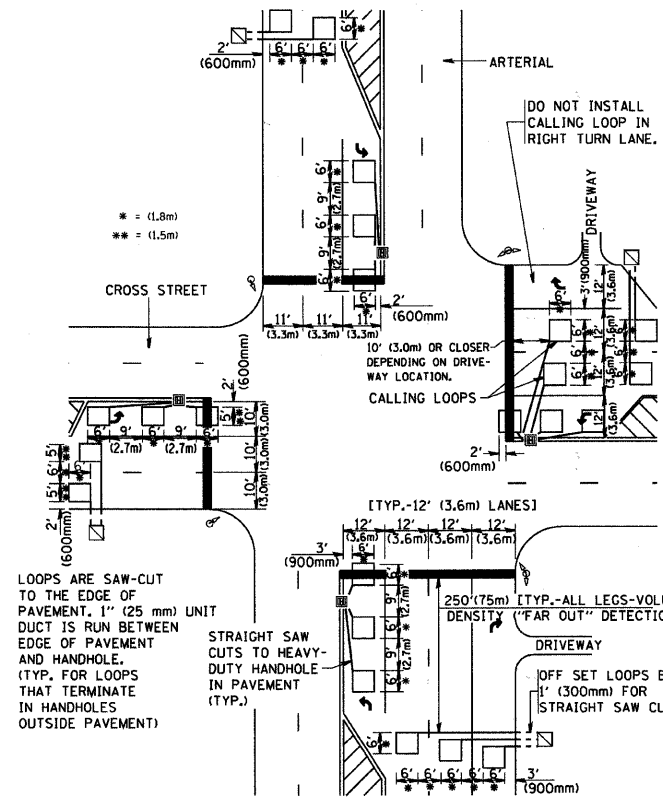
ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

REVISIONS	
NAME	DATE

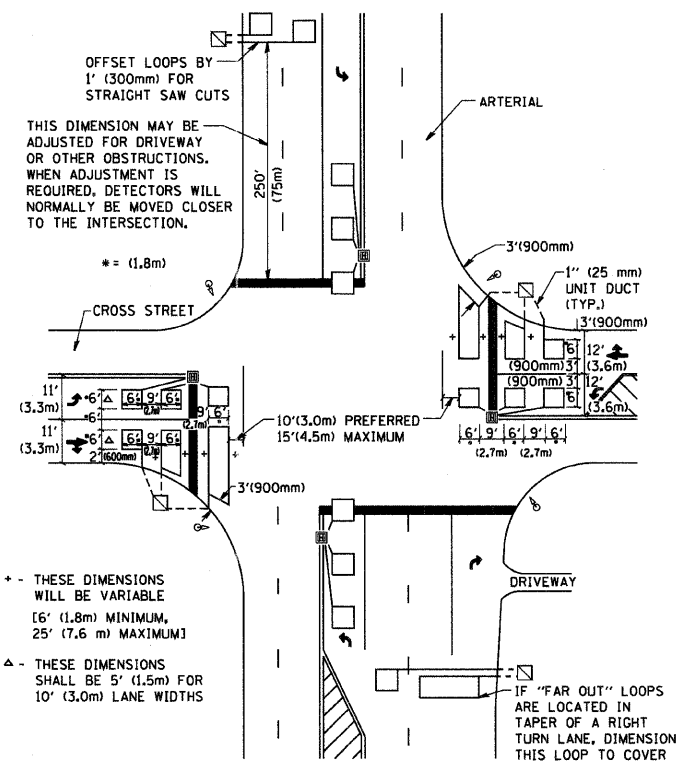
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
DETECTOR LOOP
INSTALLATION DETAILS
FOR ROADWAY RESURFACING
DESIGNED BY
DRAWN BY CADD
CHECKED BY R.K.F.
TS07

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**

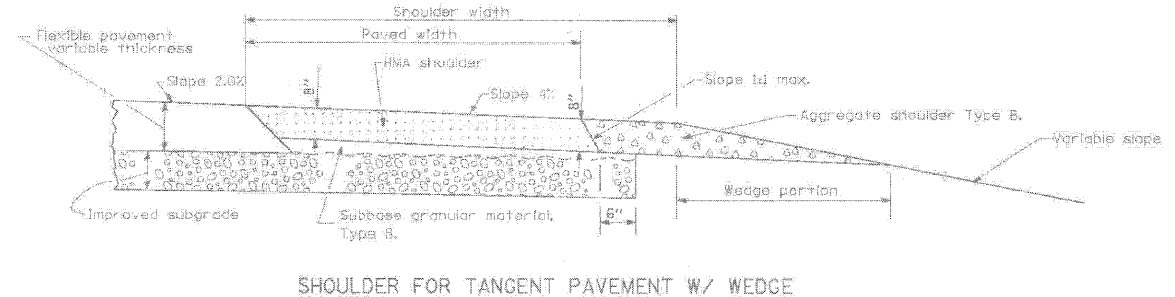


DETAIL 2
N.T.S.

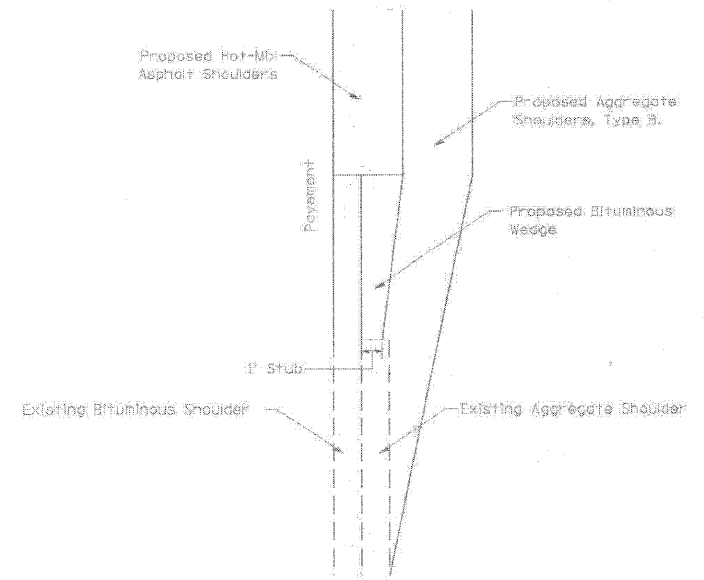
* - THESE DIMENSIONS
WILL BE VARIABLE
[6' (1.8m) MINIMUM,
25' (7.6 m) MAXIMUM]

Δ - THESE DIMENSIONS
SHALL BE 5' (1.5m) FOR
10' (3.0m) LANE WIDTHS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	226
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO: 63522				

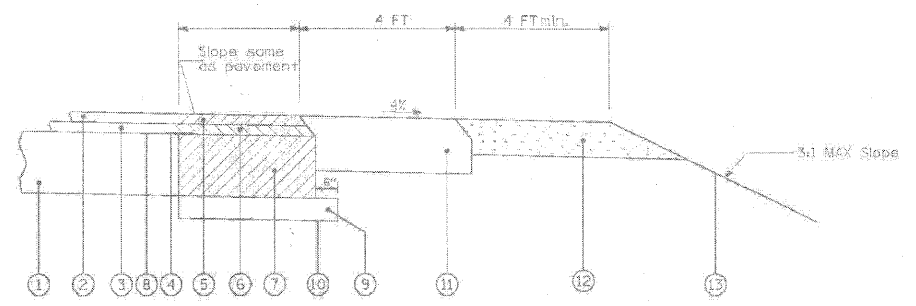


SHOULDER FOR TANGENT PAVEMENT W/ WEDGE

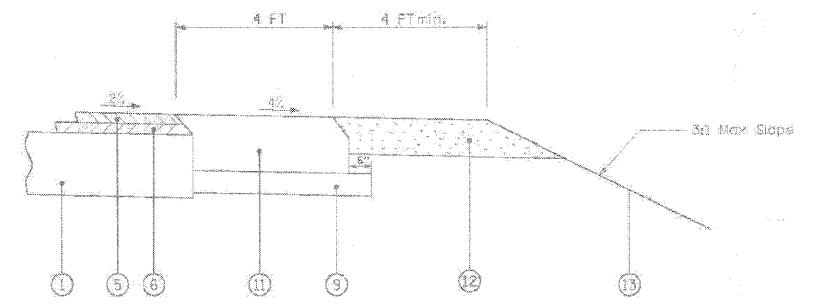


SHOULDER TAPER DETAIL
PLAN VIEW

NOTE:
TAPER THE HOT-MIX ASPHALT SHOULDERS DOWN TO THE EXISTING AGGREGATE SHOULDER WITH 1' STUB.



HMA AND AGGREGATE
SHOULDERS WITH WIDENING & RESURFACING



HMA AND AGGREGATE SHOULDERS
WITH RESURFACING

LEGEND

- ① EXISTING PAVEMENT
- ② EXISTING HMA SURFACE COURSE
- ③ EXISTING HMA BINDER COURSE
- ④ SAWCUT EXISTING PAVEMENT & INSTALL 24" WIDE STRIP REFLECTIVE CRACK CONTROL TREATMENT, TYPE A
- ⑤ PROPOSED HMA SURFACE COURSE, MIX "D", NTO, 1 1/2"
- ⑥ PROPOSED HMA BINDER COURSE, IL-19, NTO, 2 1/2"
- ⑦ PROPOSED HMA BASE COURSE, 9"
- ⑧ PRIME COAT
- ⑨ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
- ⑩ PROPOSED AGGREGATE SUBGRADE
- ⑪ PROPOSED HMA SHOULDERS, 8"
- ⑫ PROPOSED AGGREGATE SHOULDERS, TYPE B, 6"
- ⑬ PROPOSED TOPSOIL, SEEDING, CL 2A & EROSION CONTROL BLANKET

FILE NUMBER	DESIGNED	REVISED	McHENRY COUNTY DIVISION OF TRANSPORTATION		SHOULDER DETAIL		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DATE	DRAWN	REVISED							MCHENRY		
SCALE	CHECKED	REVISED			SCALE: N.T.S.		FED. ROAD DIST. NO.		CONTRACT NO.		
DATE	DATE	REVISED			SHEET NO. OF SHEETS		ILLINOIS		FED. AID PROJECT		

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

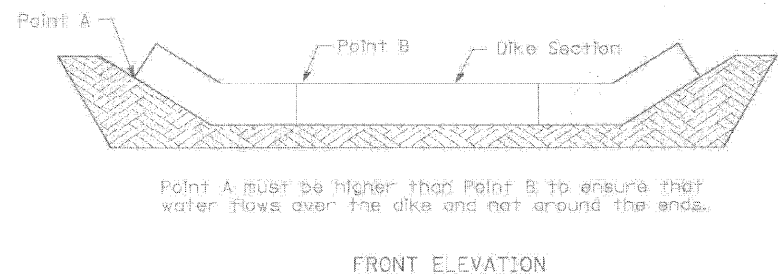
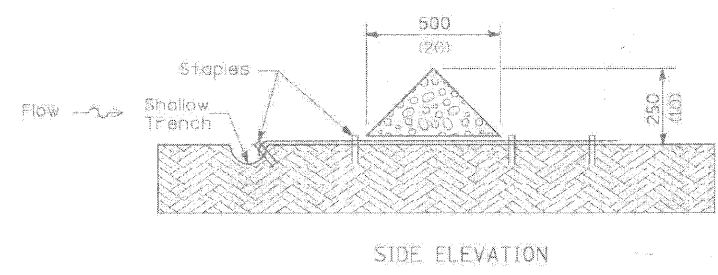
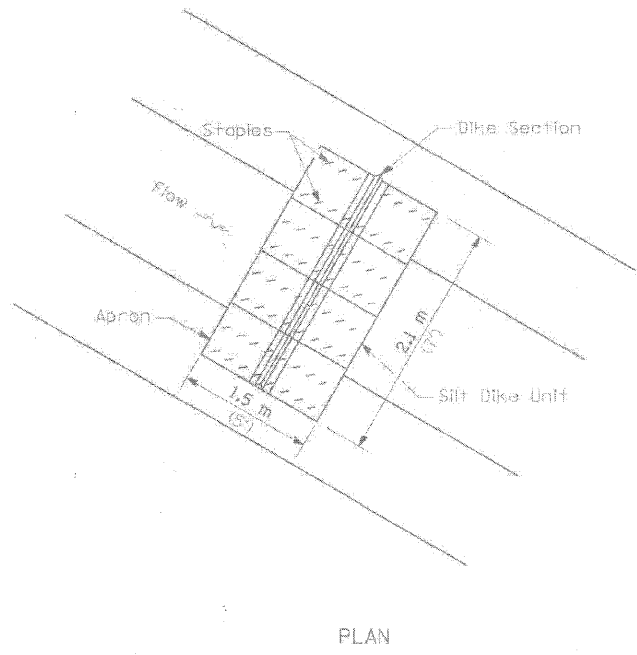
**MCHENRY COUNTY DIVISION
OF TRANSPORTATION DETAILS**
SHEET 1 OF 2

SCALE: N.T.S. DRAWN BY: MZD
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
900 N. MICHIGAN AVE. CHICAGO, IL 60611
TELEPHONE 312.467.0000

\NFS-0044\AMV\JLD-TRANS-07-2202\300-03\CIVIL\CAD\02 CONTRACT\A TENG\SHEET\002\02LSHT STANMRJ
 4 14 20 15 18 26
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FF	MCHENRY	292	227
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO: 63522				



URETHANE FOAM/GEOTEXTILE DITCH CHECK

NOTES

All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME	USER NAME - BUBBA	DESIGNED -	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION	URETHANE FOAM/GEOTEXTILE DITCH CHECK DETAIL	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FILE NO.	FILE SCALE - HORIZONTAL	DRAWN -	REVISED -			MCHENRY					
	PLAT DATE - WATER	CHECKED -	REVISED -			CONTRACT NO.					
		DATE -	REVISED -			SCALE: N.T.S.	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MCHENRY COUNTY DIVISION OF TRANSPORTATION DETAILS
SHEET 2 OF 2

SCALE: N.T.S. DRAWN BY: MZD
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS ARCHITECTS PLANNERS
306 N. MICHIGAN AVE. CHICAGO, IL 60610
TELEPHONE 312-661-8800

\AES\004\MANUAL\LD-TRANS\01\2003\300-03\CIVIL\CADD\02 CONTRACT\VA_TENG\SHEET\RD02\022.SHT STANURJ
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FF	MCHENRY	292	228
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO: 63522				

SHEET LEFT INTENTIONALLY BLANK

\\FS-0044\AMV\AULI.LD--TRANS.07\2202\300-03\CIVIL\CAD\02 CONTRACT\VA TENG\SHEET\002403\SHT STANKRU
 4-19-2011 10:50:04
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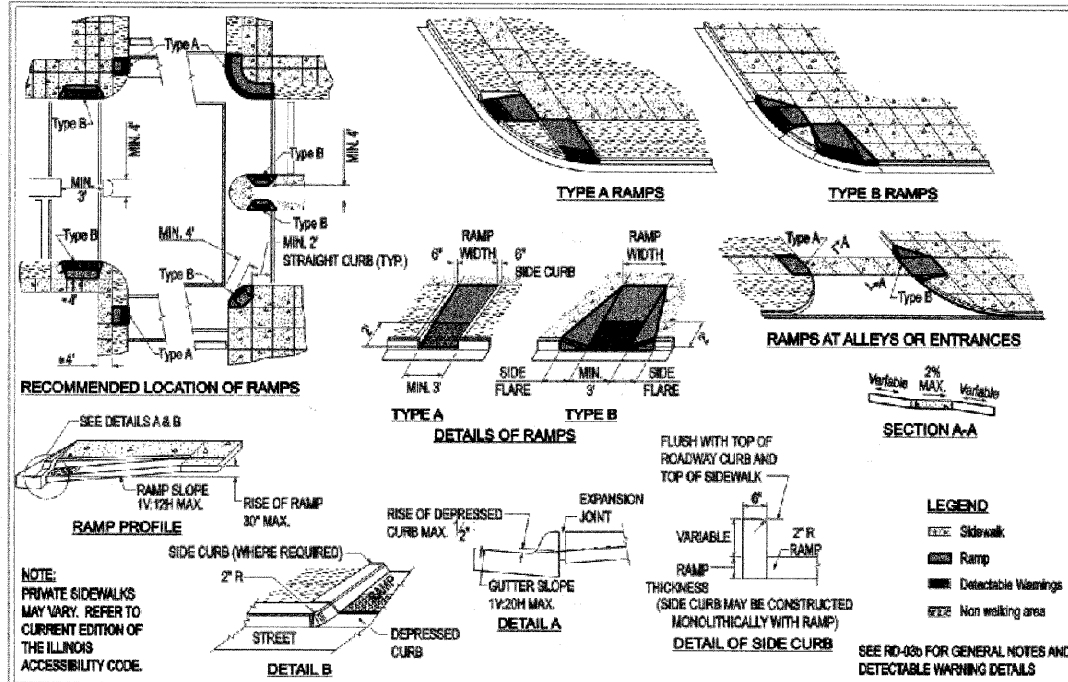
REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
 WALKUP ROAD F.A.U. 0085

CITY OF CRYSTAL LAKE DETAILS
SHEET 1 OF 8

SCALE: N.T.S. DRAWN BY: MZD
 DATE: 04/15/11 CHECKED BY: MCD

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS ARCHITECTS PLANNERS
 266 N. MICHIGAN AVE. CHICAGO, IL 60601
 TELEPHONE: 312-666-6000



Approved: City Engineer
Victor C. Ramirez, P.E.
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

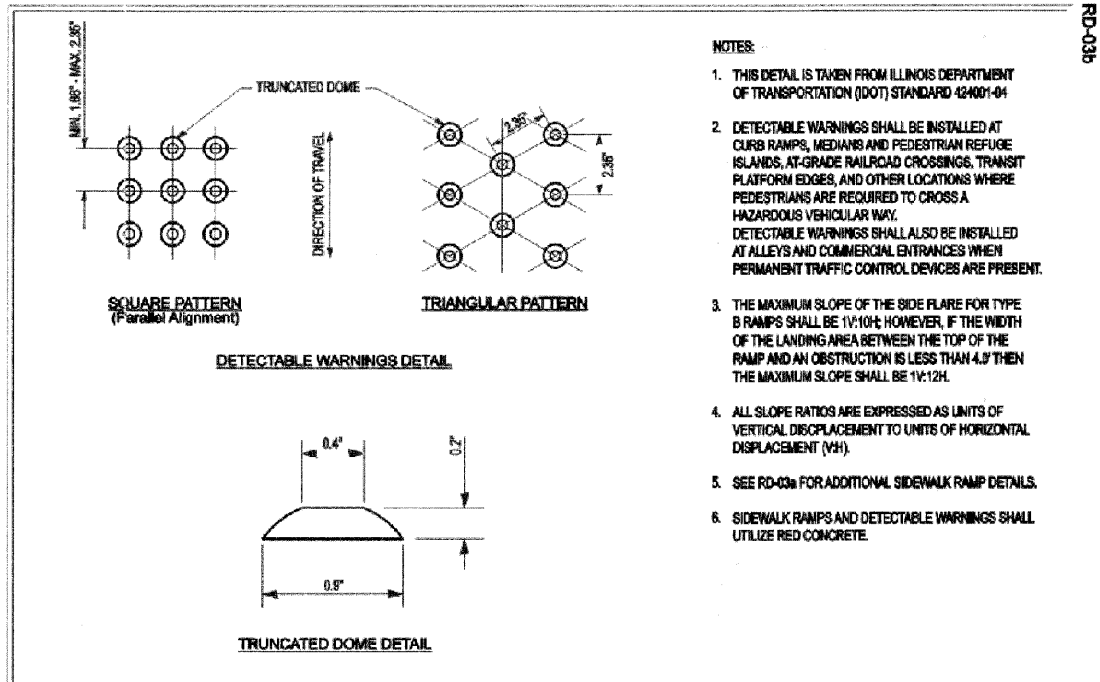
Drawing Name
PUBLIC SIDEWALK RAMP DETAIL (MODIFIED IDOT 424001-04)

Drawing Number
RD-03a

Date: 4/15/2007

Drawn	EM	Checked	MS
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CRYSTAL LAKE ILLINOIS Engineering Division



Approved: City Engineer
Victor C. Ramirez, P.E.
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
SIDEWALK RAMPS: DETECTABLE WARNINGS (MODIFIED IDOT 424001-04)

Drawing Number
RD-03b

Date: 4/15/2007

Drawn	EM	Checked	MS
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CRYSTAL LAKE ILLINOIS Engineering Division

- NOTES:
- THIS DETAIL IS TAKEN FROM ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD 424001-04
 - DETECTABLE WARNINGS SHALL BE INSTALLED AT CURB RAMPS, MEDIANS AND PEDESTRIAN REFUGE ISLANDS, AT-GRADE RAILROAD CROSSINGS, TRANSIT PLATFORM EDGES, AND OTHER LOCATIONS WHERE PEDESTRIANS ARE REQUIRED TO CROSS A HAZARDOUS VEHICULAR WAY. DETECTABLE WARNINGS SHALL ALSO BE INSTALLED AT ALLEYS AND COMMERCIAL ENTRANCES WHEN PERMANENT TRAFFIC CONTROL DEVICES ARE PRESENT.
 - THE MAXIMUM SLOPE OF THE SIDE FLARE FOR TYPE B RAMPS SHALL BE 1V:10H; HOWEVER, IF THE WIDTH OF THE LANDING AREA BETWEEN THE TOP OF THE RAMP AND AN OBSTRUCTION IS LESS THAN 4.0' THEN THE MAXIMUM SLOPE SHALL BE 1V:12H.
 - ALL SLOPE RATIOS ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).
 - SEE RD-03a FOR ADDITIONAL SIDEWALK RAMP DETAILS.
 - SIDEWALK RAMPS AND DETECTABLE WARNINGS SHALL UTILIZE RED CONCRETE.

\NFS-0048\AMVA\11.D-TRANS-07\2202\300-03\CIVIL\CAD\02-CONTRACT\A-TENG\SHEET\RD024032.SHT
 4-HP-2011-10-05-008
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REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
 WALKUP ROAD F.A.U. 0085

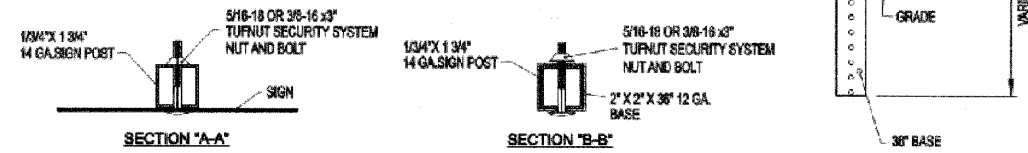
CITY OF CRYSTAL LAKE DETAILS
SHEET 2 OF 8

SCALE: N.T.S. DRAWN BY: MZD
 DATE: 04/15/11 CHECKED BY: MCD

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS & ARCHITECTS/PLANNERS
 200 N. MICHIGAN AVE. CHICAGO, IL 60601
 TELEPHONE: 312.467.4000

SPECIFICATIONS

- ALL TRAFFIC CONTROL SIGNS AND POSTS SHALL BE INSTALLED PRIOR TO OCCUPANCY AND SHALL BE INSTALLED ACCORDING TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 723 (LATEST EDITION), AND IDOT POLICY ON ESTABLISHING AND POSTING SPEED LIMITS ON THE STATE HIGHWAY SYSTEM, MAY 2002 EDITION (SPEED LIMIT SIGNS SPACING, PAGE 5).
- POSTS SHALL BE TELESCOPING SIGNS POSTS, 14 GAUGE 1 3/4" x 1 3/4" x 10' (OR 11' OR 12') WITH A 12 GAUGE 2" x 2" x 30" BASE. TELESCOPING SIGN SUPPORTS SHALL CONFORM TO SECTION 728 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).
- MOUNTING HOLES SHALL BE 1/4" IN DIAMETER +/- 1/16" AND WILL BE SPACED 1" ON CENTER ON ALL SIDES FOR THE ENTIRE LENGTH OF THE POSTS. HOLES SHALL BE ON THE CENTERLINE OF EACH SIDE IN TRUE ALIGNMENT AND OPPOSITE EACH OTHER TO ACCEPT A 3/8" BOLT THROUGH THE POST AT ANY LOCATION. THE POST SHALL HAVE A SMOOTH GALVANIZED FINISH APPLIED EITHER BEFORE OR AFTER FORMING.
- ALL SIGN PANELS SHALL BE IDOT STANDARD 0.080" ALUMINUM BLANKS WITH 1/2" RADIUS ON ALL CORNERS. SIGN FACE MATERIAL SHALL BE 3M DG3 REFLECTORIZED SHEETING (ASTM PROPOSED TYPE 11, ILLINOIS TYPE Z2).
 - STANDARD STOP SIGN (R1-1), YIELD SIGN (R1-2), AND DO NOT ENTER (R5-1) SHALL BE 30" x 30"
 - STANDARD WARNING SIGNS SHALL BE 30" x 30"
 - NO PARKING SIGNS SHALL BE 12" x 18" (R7-2a)
 - SCHOOL ZONE AND PEDESTRIAN CROSSING SIGNS SHALL BE 30" x 30" WITH SUPPLEMENTAL PLATES 24" x 12"
 - SPEED LIMIT SIGNS SHALL BE 24" x 30" (R2-1)
 SPEED LIMIT SIGNS FOR 30-MPH OR LESS IN URBAN AREAS SHALL BE SPACED 600 FEET TO 1,300 FEET (2-4 BLOCKS). REFER TO IDOT POLICY ON ESTABLISHING AND POSTING SPEED LIMITS ON THE STATE HIGHWAY SYSTEM, MAY 2002 EDITION (SPEED LIMIT SIGNS SPACING, PAGE 5).



Approved: City Engineer

Drawing Name

Drawing Number

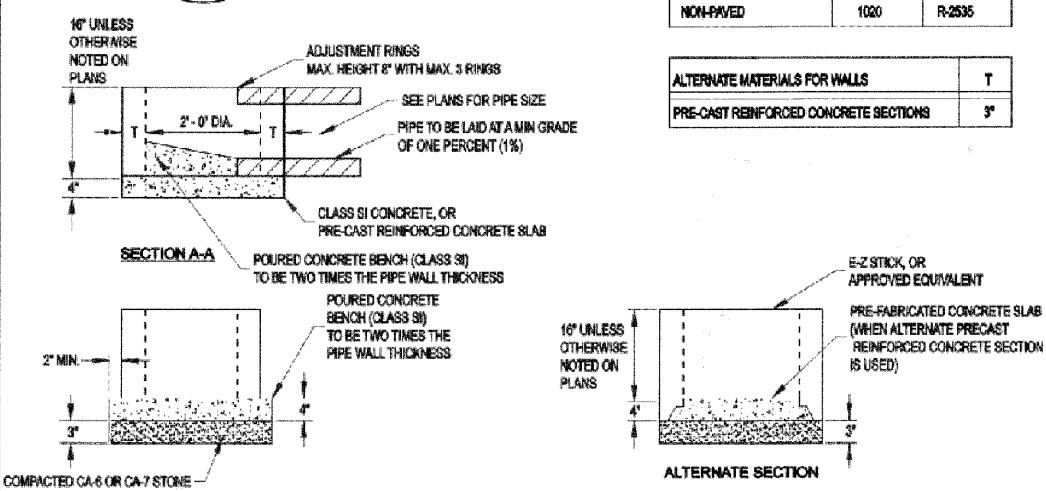
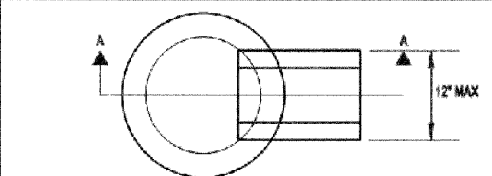
Victor C. Ramirez, P.E.
Victor C. Ramirez, P.E.
Director of Engineering and Building

TRAFFIC CONTROL SIGN AND POST

TR-03
Date: 4/15/2007
Drawn: EM
Checked: TR



ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS



Approved: City Engineer

Drawing Name

Drawing Number

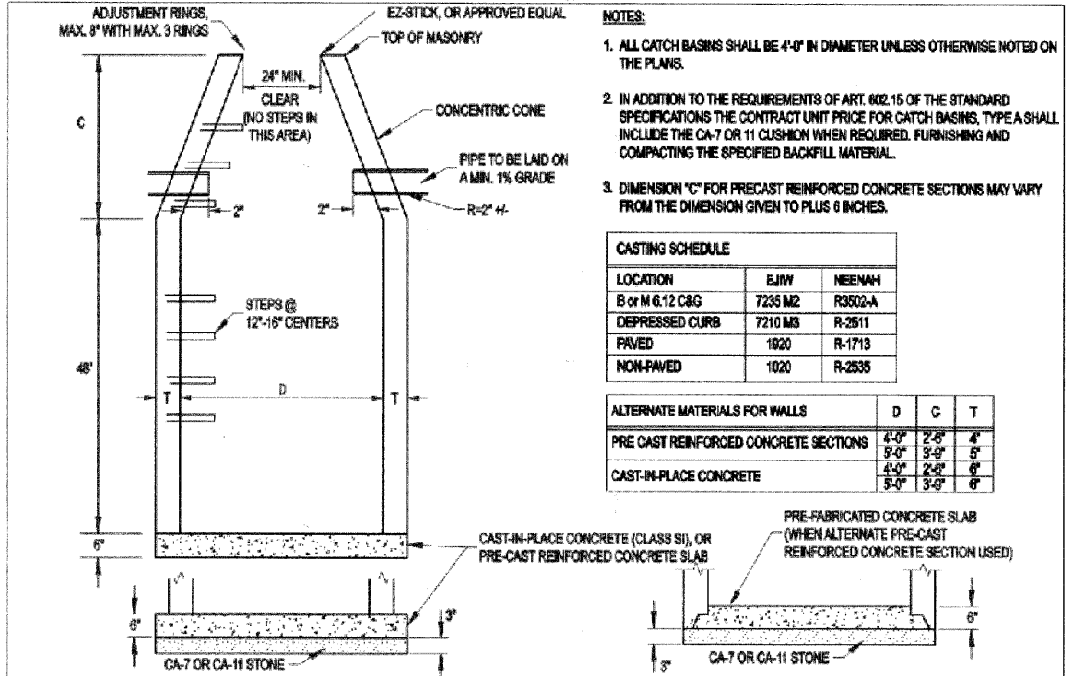
Victor C. Ramirez, P.E.
Victor C. Ramirez, P.E.
Director of Engineering and Building

DRAINAGE STRUCTURES: INLET, TYPE A

UD-01a
Date: 4/15/2007
Drawn: EM
Checked: LZ



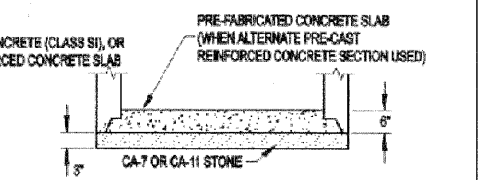
ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS



- NOTES:**
- ALL CATCH BASINS SHALL BE 4'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.
 - IN ADDITION TO THE REQUIREMENTS OF ART. 802.15 OF THE STANDARD SPECIFICATIONS THE CONTRACT UNIT PRICE FOR CATCH BASINS, TYPE A SHALL INCLUDE THE CA-7 OR 11 CUSHION WHEN REQUIRED. FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL.
 - DIMENSION 'C' FOR PRECAST REINFORCED CONCRETE SECTIONS MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6 INCHES.

LOCATION	EJW	NEENAH
B or M 6.12 C&G	7235 M2	R3502-A
DEPRESSED CURB	7210 M3	R-2511
PAVED	1920	R-1713
NON-PAVED	1020	R-2535

ALTERNATE MATERIALS FOR WALLS	D	C	T
PRE CAST REINFORCED CONCRETE SECTIONS	4'-0"	2'-0"	4"
	5'-0"	3'-0"	5"
CAST-IN-PLACE CONCRETE	4'-0"	2'-0"	6"
	5'-0"	3'-0"	6"



Approved: City Engineer

Drawing Name

Drawing Number

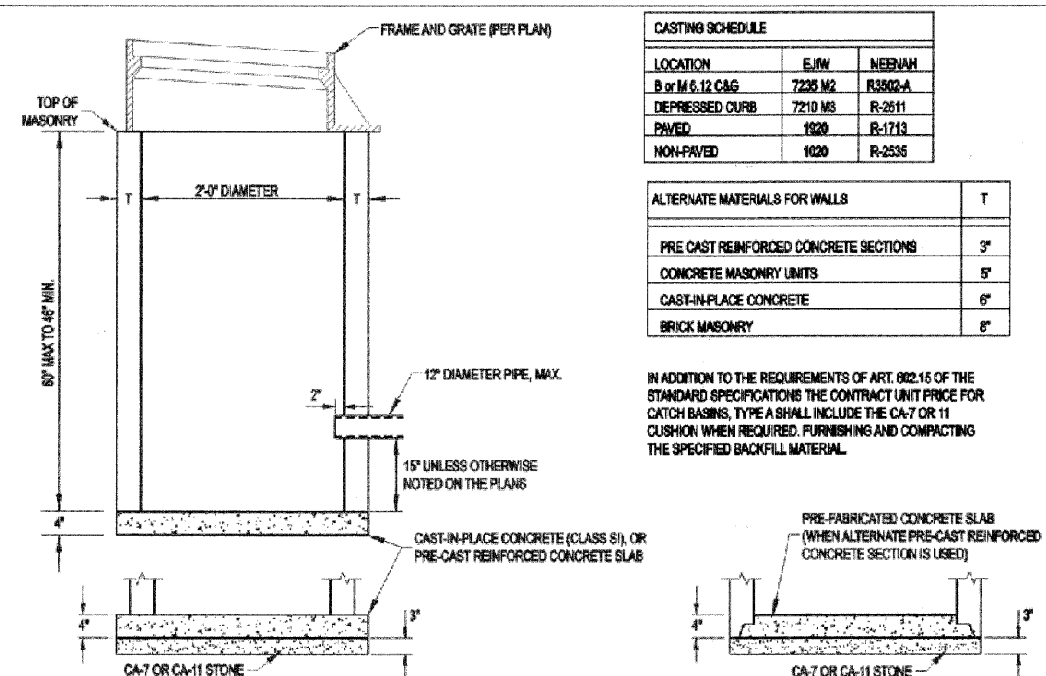
Victor C. Ramirez, P.E.
Victor C. Ramirez, P.E.
Director of Engineering and Building

CATCH BASIN, TYPE A

UD-01b
Date: 4/15/2007
Drawn: EM
Checked: LZ



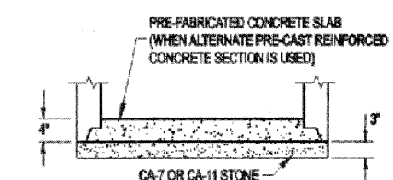
ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS



LOCATION	EJW	NEENAH
B or M 6.12 C&G	7235 M2	R3502-A
DEPRESSED CURB	7210 M3	R-2511
PAVED	1920	R-1713
NON-PAVED	1020	R-2535

ALTERNATE MATERIALS FOR WALLS	T
PRE CAST REINFORCED CONCRETE SECTIONS	3"
CONCRETE MASONRY UNITS	5"
CAST-IN-PLACE CONCRETE	6"
BRICK MASONRY	8"

IN ADDITION TO THE REQUIREMENTS OF ART. 802.15 OF THE STANDARD SPECIFICATIONS THE CONTRACT UNIT PRICE FOR CATCH BASINS, TYPE A SHALL INCLUDE THE CA-7 OR 11 CUSHION WHEN REQUIRED. FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL.



Approved: City Engineer

Drawing Name

Drawing Number

Victor C. Ramirez, P.E.
Victor C. Ramirez, P.E.
Director of Engineering and Building

CATCH BASIN, TYPE C

UD-01c
Date: 4/15/2007
Drawn: EM
Checked: SC



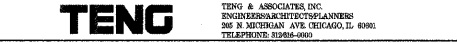
ENGINEERING AND BUILDING ENGINEERING DETAILS AND STANDARDS

REVISIONS	
NAME	DATE

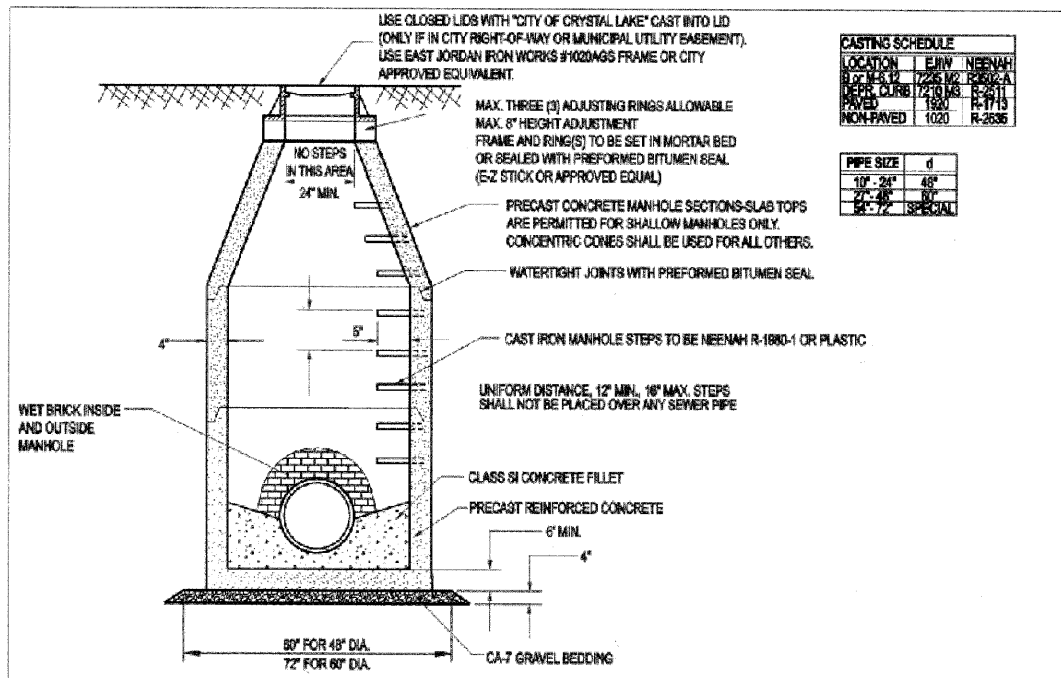
MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

**CITY OF CRYSTAL LAKE DETAILS
SHEET 3 OF 8**

SCALE: N.T.S. DRAWN BY: MZD
DATE: 04/15/11 CHECKED BY: MCD



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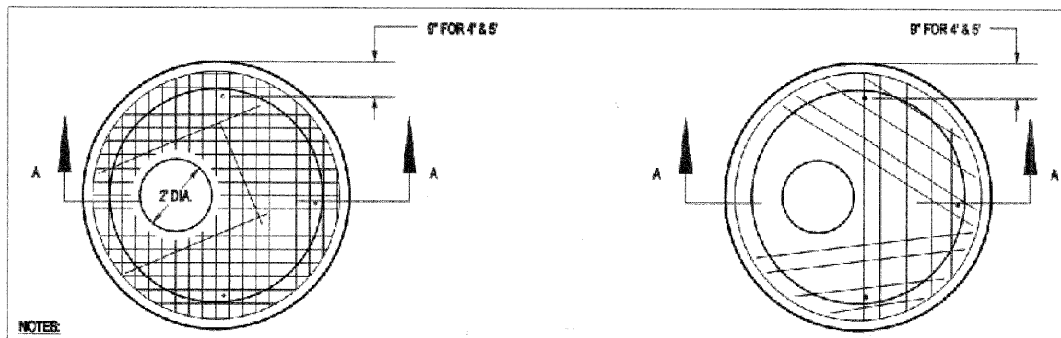
LOCATION	EJ/W	NEENAH
R-12	1226	R-2000A
DEPT. CURB	1220 MS	R-2011
PAVED	1020	R-1713
NON-PAVED	1020	R-2636

PIPE SIZE	d
10" - 24"	45°
24" - 48"	60°
48" - 72"	SPECIAL

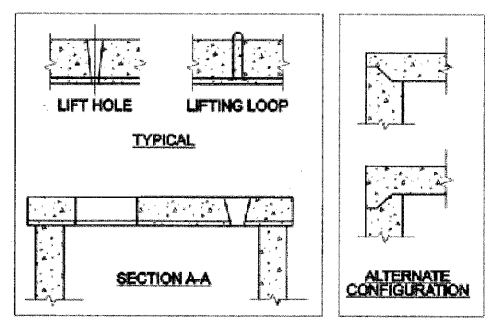
Approved: City Engineer
Victor C. Ramirez, P.E.
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
STORM MANHOLE TYPE A

Drawing Number
UD-01d
 Date: 4/15/2007
 Drawn: EM Checked: LZ



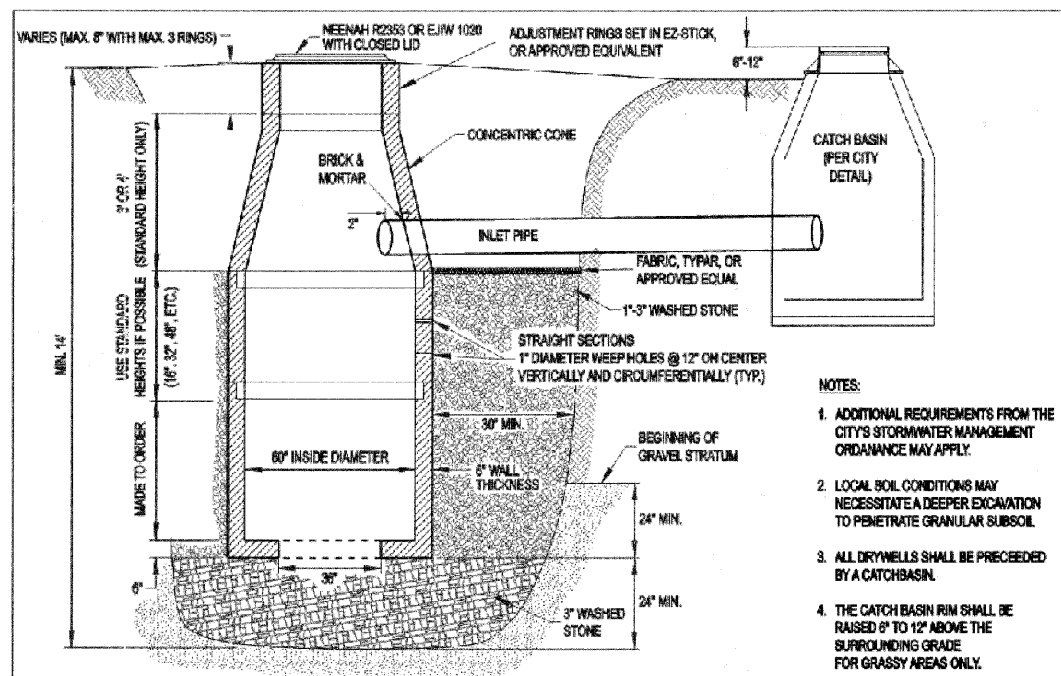
- NOTES:
1. PRECAST FLAT TOPS SHALL CONFORM TO SECTION 504 OF THE STANDARD SPECIFICATIONS.
 2. REINFORCEMENT BARS OR WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH ARTICLE 1006.10 OF THE STANDARD SPECIFICATIONS.
 3. JOINT CONFIGURATION AND DIMENSIONS SHALL MATCH AND FIT THE RISER JOINT DETAIL.
 4. LIFTING DEVICES OTHER THAN THAT SHOWN MAY BE USED SUBJECT TO APPROVAL BY THE ENGINEER.
 5. THE FLAT SLAB TOP MAY BE USED IN LIEU OF THE TAPERED TOPS SHOWN ON STANDARD 1814, 1828, 1827, OR 1886, AT THE OPTION OF THE CONTRACTOR OR WHEN FIELD CONDITIONS PROHIBIT THE USE OF TAPERED TOPS.
 6. THE COST OF FURNISHING AND INSTALLING THE FLAT SLAB TOP SHALL BE INCLUDED IN THE UNIT PRICE FOR CATCH BASIN OR MANHOLE.



Approved: City Engineer
Victor C. Ramirez, P.E.
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
ECCENTRIC FLAT TOPS FOR CURB INLET STORM MANHOLES

Drawing Number
UD-02b
 Date: 4/15/2007
 Drawn: EM Checked: LZ



Approved: City Engineer
Victor C. Ramirez, P.E.
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
DRYWELL

Drawing Number
UD-03
 Date: 4/16/2007
 Drawn: EM Checked: LZ



REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
 WALKUP ROAD F.A.U. 0085

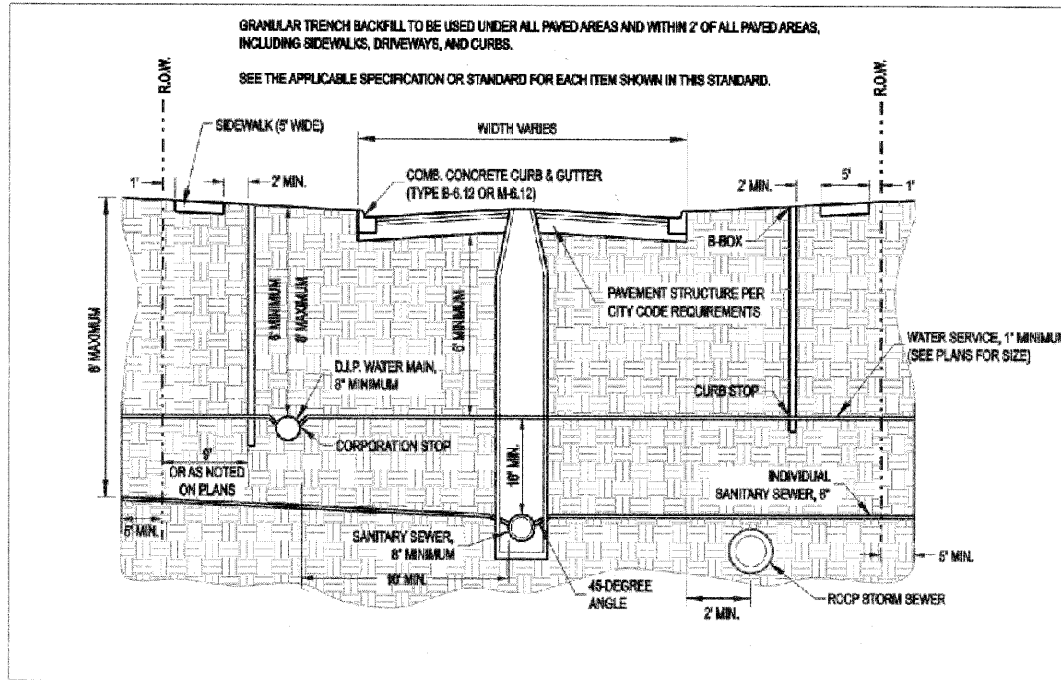
CITY OF CRYSTAL LAKE DETAILS SHEET 4 OF 8

SCALE: N.T.S. DRAWN BY: MZD
 DATE: 04/15/11 CHECKED BY: MCD

TENG
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 ENGINEERS-ARCHITECTS-PLANNERS
 205 N. MICHIGAN AVE. CHICAGO, IL 60601
 TELEPHONE: 312-640-0000

4-19-2011 10:52:06 \\FS-0044\AMV\VAULT-TRANS_DTV2202\300-03\CIVIL\CAD\02-CONTRACT\CVIA_TENG\SHEET\RD02\04\034.SHT STANKURJ
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	232
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FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO: 63522				



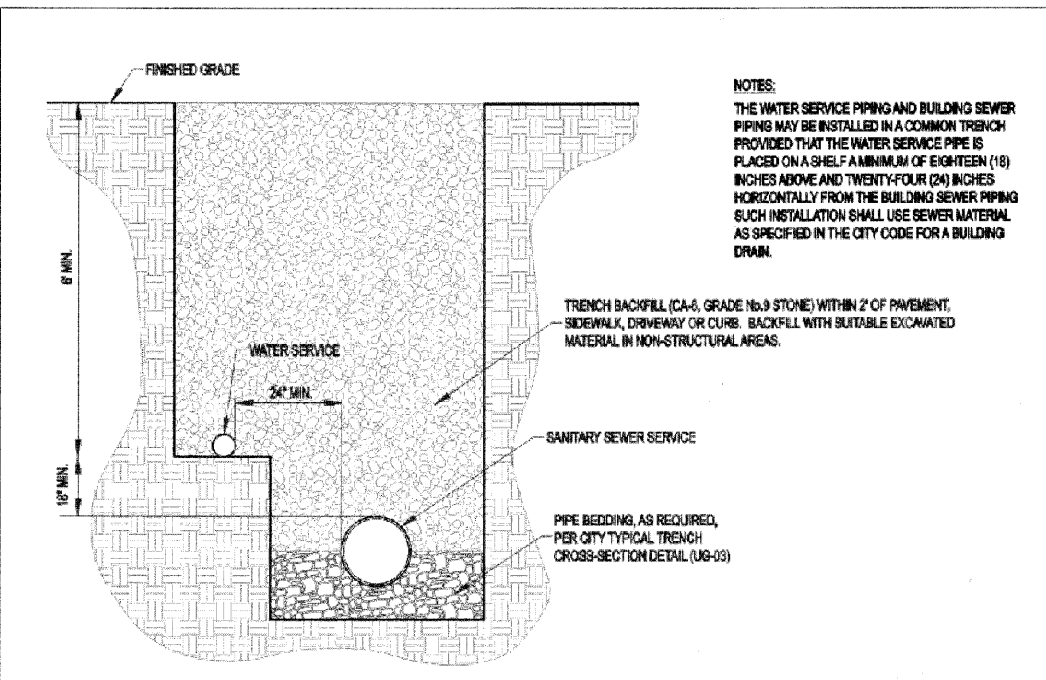
Approved: City Engineer
Victor C. Ramirez, P.E.
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
TYPICAL STREET AND UTILITY LOCATIONS

Drawing Number
UG-01

Date: 4/15/2007
 Drawn: EM
 Checked: LZ

CRYSTAL LAKE ILLINOIS
 Engineering Division



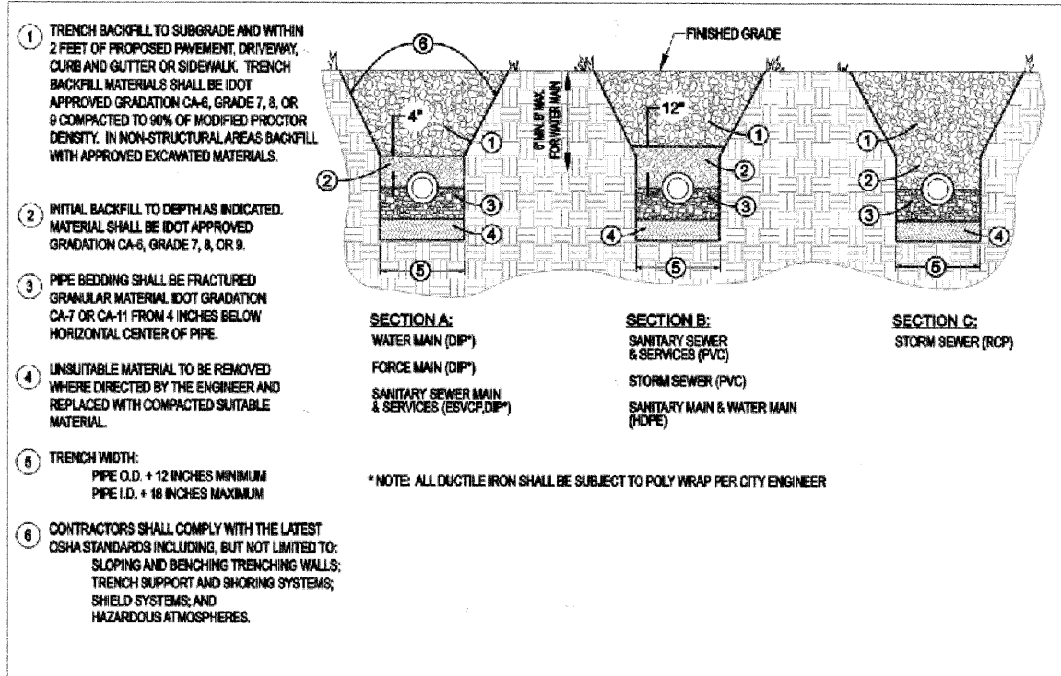
Approved: City Engineer
Victor C. Ramirez, P.E.
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
COMMON WATER/SANITARY SERVICE TRENCH

Drawing Number
UG-02

Date: 4/15/2007
 Drawn: EM
 Checked: LZ

CRYSTAL LAKE ILLINOIS
 Engineering Division



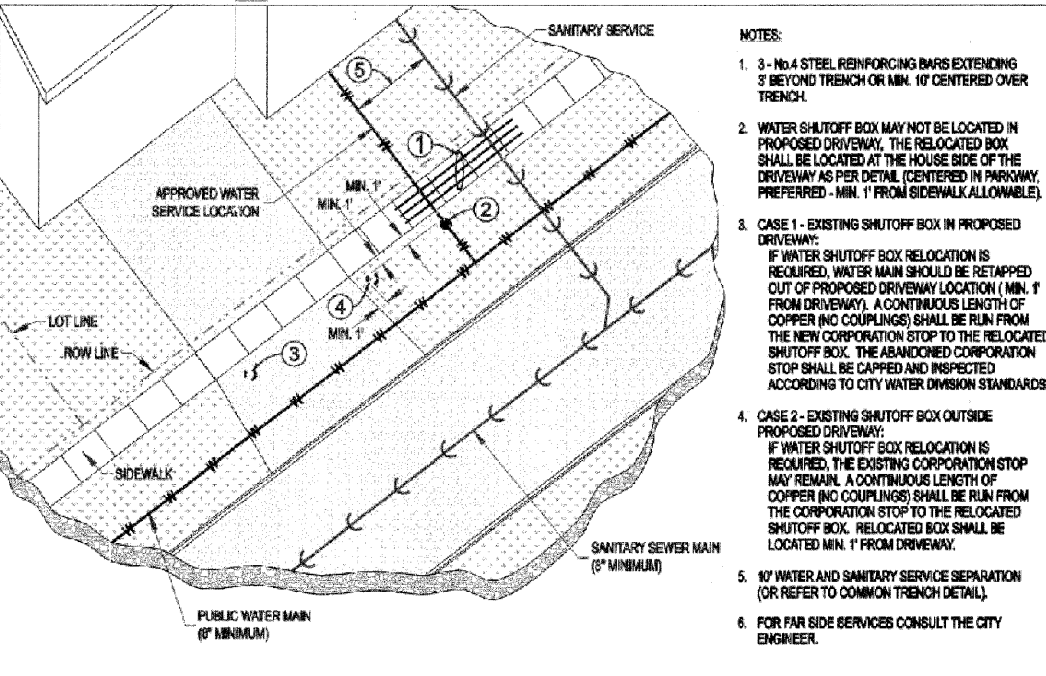
Approved: City Engineer
Victor C. Ramirez, P.E.
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
TYPICAL TRENCH CROSS SECTION

Drawing Number
UG-03

Date: 6/1/2007
 Drawn: EM
 Checked: LZ

CRYSTAL LAKE ILLINOIS
 Engineering Division



Approved: City Engineer
Victor C. Ramirez, P.E.
 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
TYPICAL WATER AND SANITARY SERVICE LOT LOCATION

Drawing Number
UG-05

Date: 4/15/2007
 Drawn: EM
 Checked: LZ

CRYSTAL LAKE ILLINOIS
 Engineering Division

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
 WALKUP ROAD F.A.U. 0085

CITY OF CRYSTAL LAKE DETAILS
SHEET 5 OF 8

SCALE: N.T.S. DRAWN BY: MZD
 DATE: 04/15/11 CHECKED BY: MCD

TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS ARCHITECTS PLANNERS
 906 N. MIDLAND AVE. CHICAGO, IL 60610
 TELEPHONE: 312-655-4000

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	233
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO: 63522				

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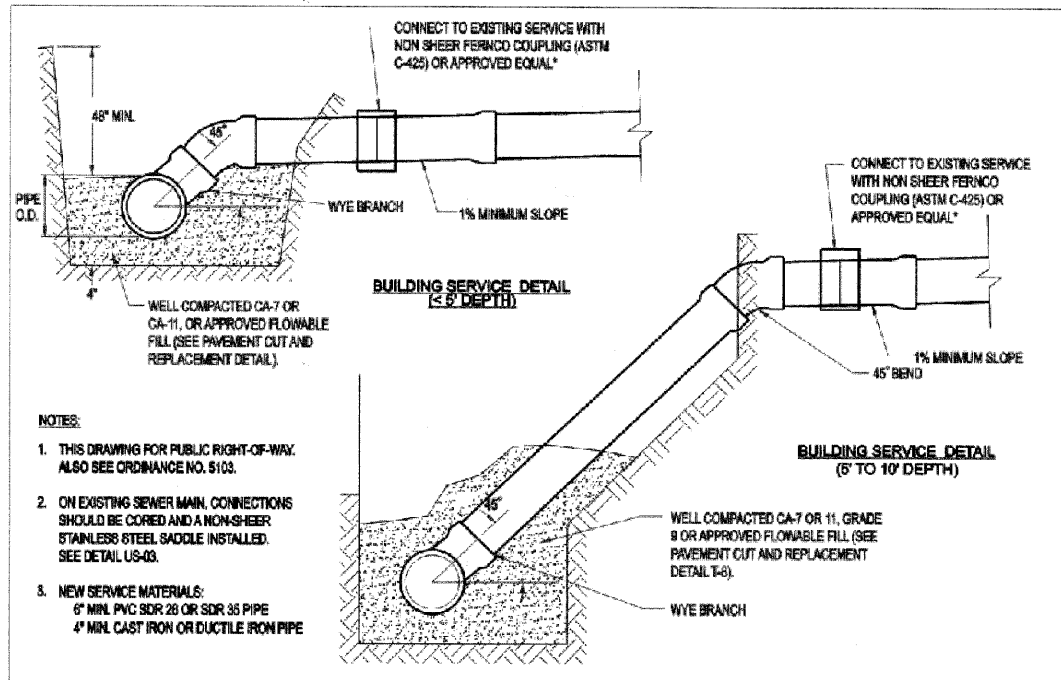
REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

CITY OF CRYSTAL LAKE DETAILS
SHEET 6 OF 8

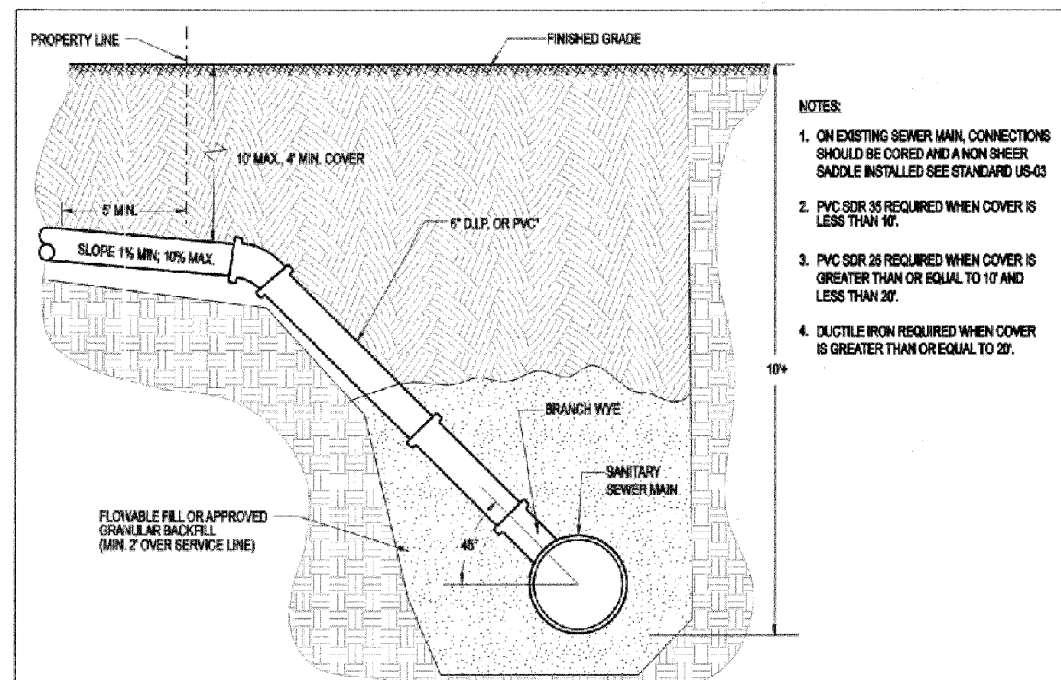
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DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
 ENGINEERS ARCHITECTS PLANNERS
 806 N. MICHIGAN AVE. CHICAGO, IL 60610
 TELEPHONE: 312.662.4000



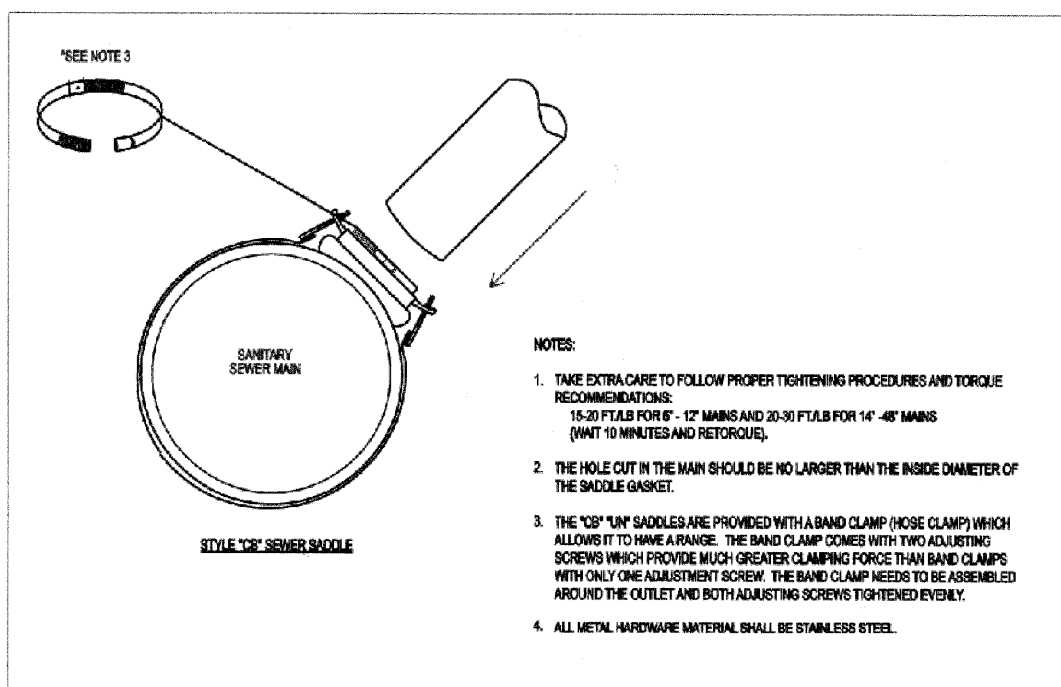
- NOTES:
- THIS DRAWING FOR PUBLIC RIGHT-OF-WAY. ALSO SEE ORDINANCE NO. 5103.
 - ON EXISTING SEWER MAIN, CONNECTIONS SHOULD BE CORED AND A NON-SHEER STAINLESS STEEL SADDLE INSTALLED. SEE DETAIL US-03.
 - NEW SERVICE MATERIALS:
6" MIN. PVC SDR 26 OR SDR 35 PIPE
4" MIN. CAST IRON OR DUCTILE IRON PIPE

Approved: City Engineer <i>Victor C. Ramirez, P.E.</i> Victor C. Ramirez, P.E. Director of Engineering and Building	Drawing Name SANITARY SERVICE RISER (DEPTH < 10')	Drawing Number US-01 Date: 4/15/2007 Drawn: EM Checked: TH	
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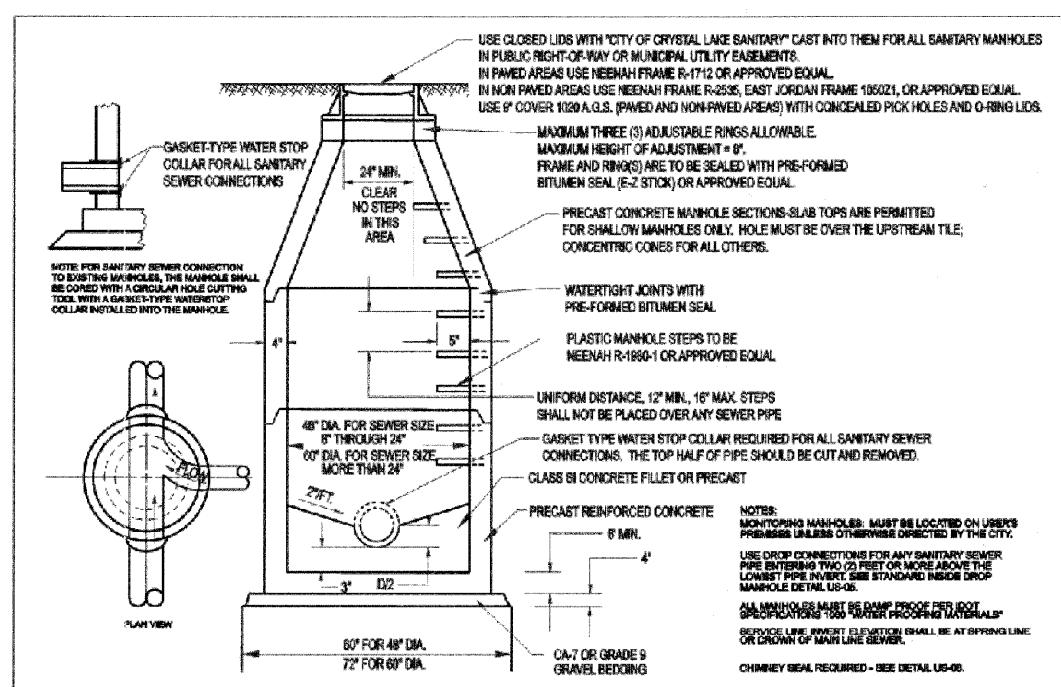
- NOTES:
- ON EXISTING SEWER MAIN, CONNECTIONS SHOULD BE CORED AND A NON SHEER SADDLE INSTALLED SEE STANDARD US-03
 - PVC SDR 35 REQUIRED WHEN COVER IS LESS THAN 10'.
 - PVC SDR 26 REQUIRED WHEN COVER IS GREATER THAN OR EQUAL TO 10' AND LESS THAN 20'.
 - DUCTILE IRON REQUIRED WHEN COVER IS GREATER THAN OR EQUAL TO 20'.

Approved: City Engineer <i>Victor C. Ramirez, P.E.</i> Victor C. Ramirez, P.E. Director of Engineering and Building	Drawing Name SANITARY SERVICE RISER (DEPTH >= 10')	Drawing Number US-02 Date: 4/15/2007 Drawn: EM Checked: TH	
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- NOTES:
- TAKE EXTRA CARE TO FOLLOW PROPER TIGHTENING PROCEDURES AND TORQUE RECOMMENDATIONS:
15-20 FT.LB FOR 6" - 12" MAINS AND 20-30 FT.LB FOR 14" - 48" MAINS (WAIT 10 MINUTES AND RETORQUE).
 - THE HOLE CUT IN THE MAIN SHOULD BE NO LARGER THAN THE INSIDE DIAMETER OF THE SADDLE GASKET.
 - THE "CB" "UN" SADDLES ARE PROVIDED WITH A BAND CLAMP (HOSE CLAMP) WHICH ALLOWS IT TO HAVE A RANGE. THE BAND CLAMP COMES WITH TWO ADJUSTING SCREWS WHICH PROVIDE MUCH GREATER CLAMPING FORCE THAN BAND CLAMPS WITH ONLY ONE ADJUSTMENT SCREW. THE BAND CLAMP NEEDS TO BE ASSEMBLED AROUND THE OUTLET AND BOTH ADJUSTING SCREWS TIGHTENED EVENLY.
 - ALL METAL HARDWARE MATERIAL SHALL BE STAINLESS STEEL.

Approved: City Engineer <i>Victor C. Ramirez, P.E.</i> Victor C. Ramirez, P.E. Director of Engineering and Building	Drawing Name SANITARY SEWER SADDLE CONNECTION	Drawing Number US-03 Date: 4/15/2007 Drawn: EM Checked: TH	
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Approved: City Engineer <i>Victor C. Ramirez, P.E.</i> Victor C. Ramirez, P.E. Director of Engineering and Building	Drawing Name STANDARD SANITARY AND MONITORING MANHOLE	Drawing Number US-04 Date: 11/22/2007 Drawn: EM Checked: TH	
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REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

**CITY OF CRYSTAL LAKE DETAILS
SHEET 7 OF 8**

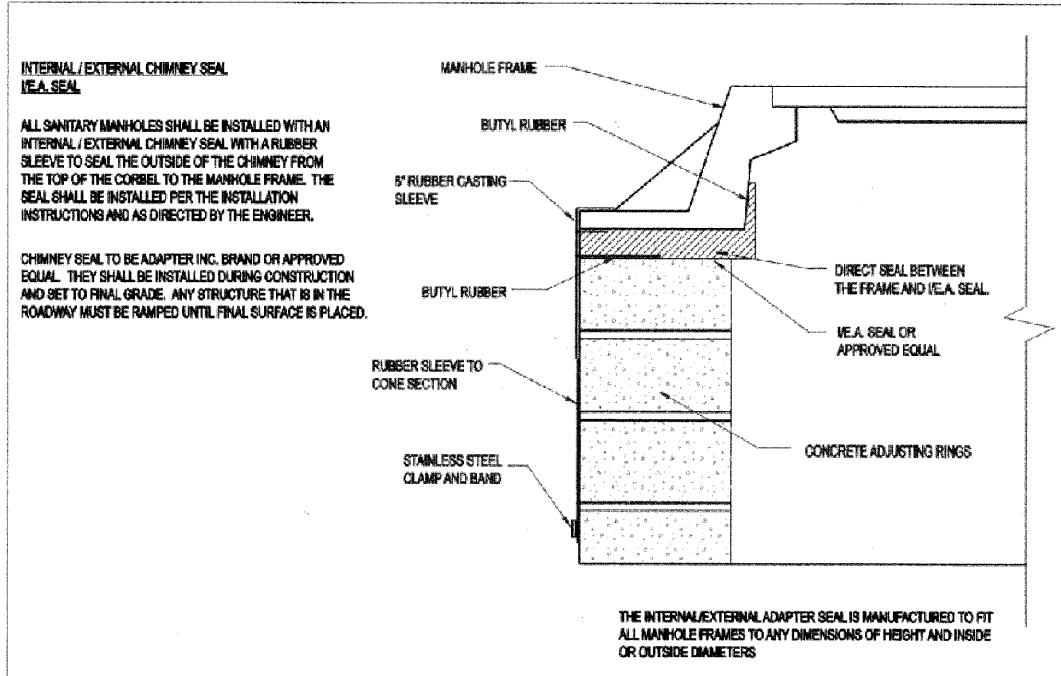
SCALE: N.T.S. DRAWN BY: MZD
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
200 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312-467-4900

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	235
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO: 63522				

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 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63



INTERNAL / EXTERNAL CHIMNEY SEAL V.E.A. SEAL

ALL SANITARY MANHOLES SHALL BE INSTALLED WITH AN INTERNAL / EXTERNAL CHIMNEY SEAL WITH A RUBBER SLEEVE TO SEAL THE OUTSIDE OF THE CHIMNEY FROM THE TOP OF THE CORBEL TO THE MANHOLE FRAME. THE SEAL SHALL BE INSTALLED PER THE INSTALLATION INSTRUCTIONS AND AS DIRECTED BY THE ENGINEER.

CHIMNEY SEAL TO BE ADAPTER INC. BRAND OR APPROVED EQUAL. THEY SHALL BE INSTALLED DURING CONSTRUCTION AND SET TO FINAL GRADE. ANY STRUCTURE THAT IS IN THE ROADWAY MUST BE RAMPED UNTIL FINAL SURFACE IS PLACED.

THE INTERNAL/EXTERNAL ADAPTER SEAL IS MANUFACTURED TO FIT ALL MANHOLE FRAMES TO ANY DIMENSIONS OF HEIGHT AND INSIDE OR OUTSIDE DIAMETERS

Approved City Engineer

 Victor C. Ramirez, P.E.
 Director of Engineering and Building

Drawing Name
INTERNAL / EXTERNAL CHIMNEY SEAL

Drawing Number
US-08

Date: 4/15/2007

Drawn: EM
 Checked: TH



REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
 WALKUP ROAD F.A.U. 0085

**CITY OF CRYSTAL LAKE DETAILS
 SHEET 8 OF 8**

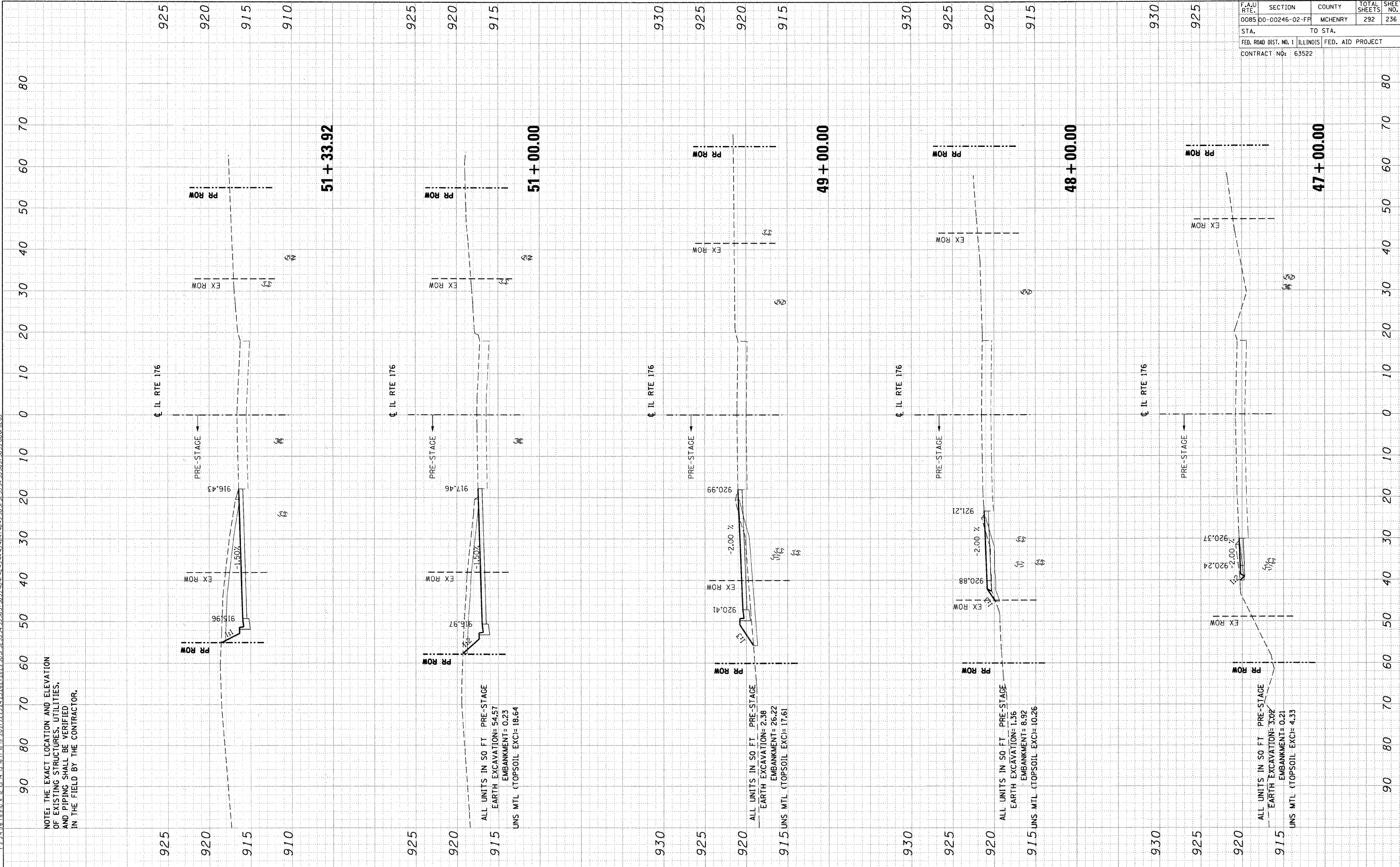
SCALE: N.T.S. DRAWN BY: MZD
 DATE: 04/15/11 CHECKED BY: MCD

TENG
 TENG & ASSOCIATES INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 216 N. MICHIGAN AVE. CHICAGO, IL 60602
 TELEPHONE: 312.662-0000

FINAL SURVEY	DATE
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	

ORIGINAL SURVEY	DATE
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	

\P\019A002.DGN --AL02A002.DGN --VP02A002.DGN
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NOTE: THE EXACT LOCATION AND ELEVATION
 OF EXISTING STRUCTURES, UTILITIES,
 AND PIPING SHALL BE VERIFIED
 IN THE FIELD BY THE CONTRACTOR.

ALL UNITS IN 50 FT. PRE-STAGE
 EARTH EXCAVATION= 54.57
 EMBANKMENT= 0.23
 UNS. MTL. (TOPSOIL EXC)= 18.64

ALL UNITS IN 50 FT. PRE-STAGE
 EARTH EXCAVATION= 2.36
 EMBANKMENT= 26.22
 UNS. MTL. (TOPSOIL EXC)= 17.61

ALL UNITS IN 50 FT. PRE-STAGE
 EARTH EXCAVATION= 1.36
 EMBANKMENT= 8.92
 UNS. MTL. (TOPSOIL EXC)= 10.26

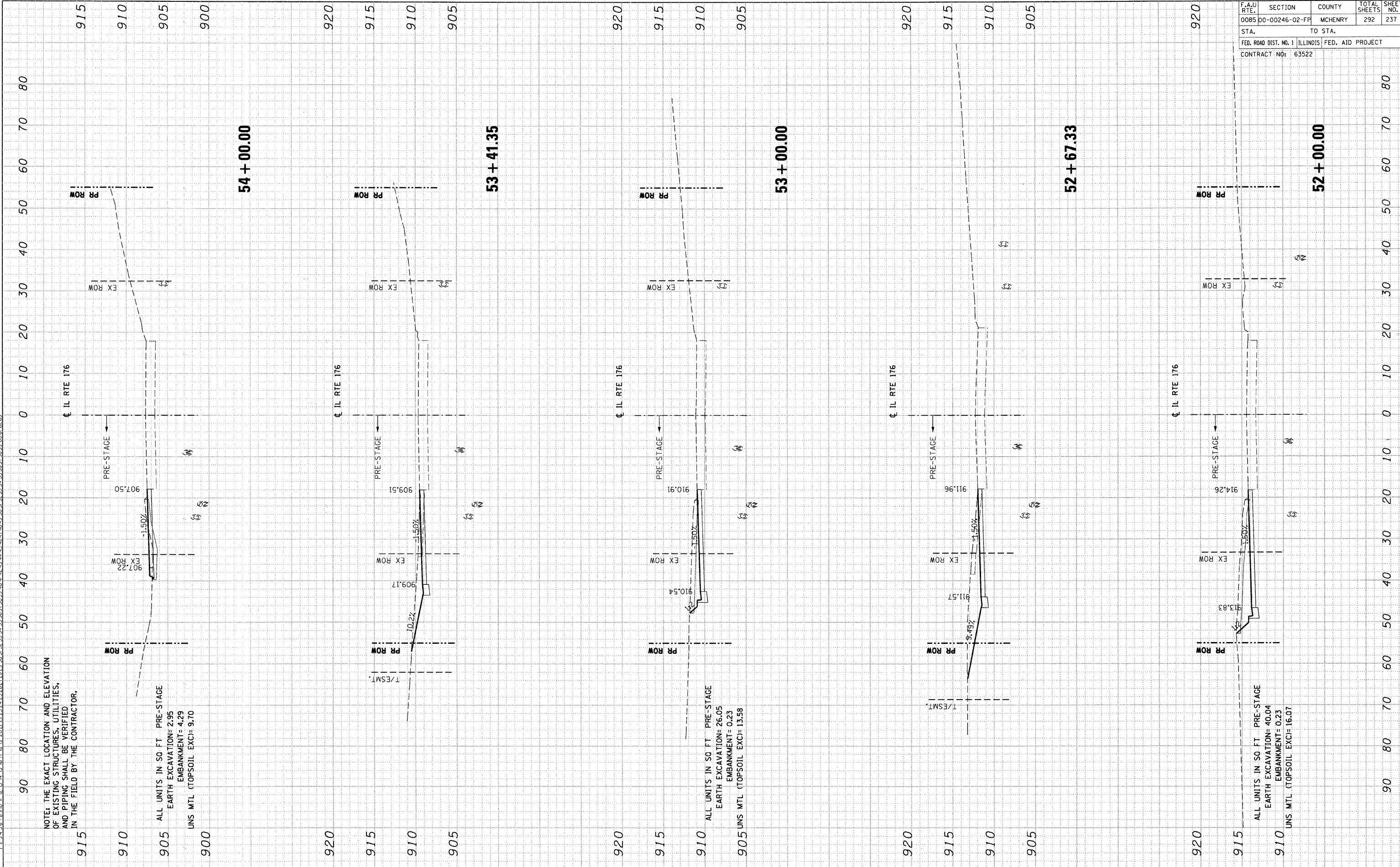
ALL UNITS IN 50 FT. PRE-STAGE
 EARTH EXCAVATION= 3.02
 EMBANKMENT= 0.21
 UNS. MTL. (TOPSOIL EXC)= 4.33

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	237
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO: 63522				

FINAL SURVEY	BY	DATE
NOTED BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
NOTED BOOK		
NO.		

\P\024002.DCN - \A\024002.DCN - \V\024002.DCN
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NOTE: THE EXACT LOCATION AND ELEVATION
 OF EXISTING STRUCTURES, UTILITIES,
 AND PIPING SHALL BE VERIFIED
 IN THE FIELD BY THE CONTRACTOR.

905 ALL UNITS IN 50 FT. PRE-STAGE
 EARTH EXCAVATION= 2.95
 EMBANKMENT= 4.29
 UNS MTL (TOPSOIL EXC)= 9.70

905 ALL UNITS IN 50 FT. PRE-STAGE
 EARTH EXCAVATION= 26.05
 EMBANKMENT= 0.23
 UNS MTL (TOPSOIL EXC)= 13.58

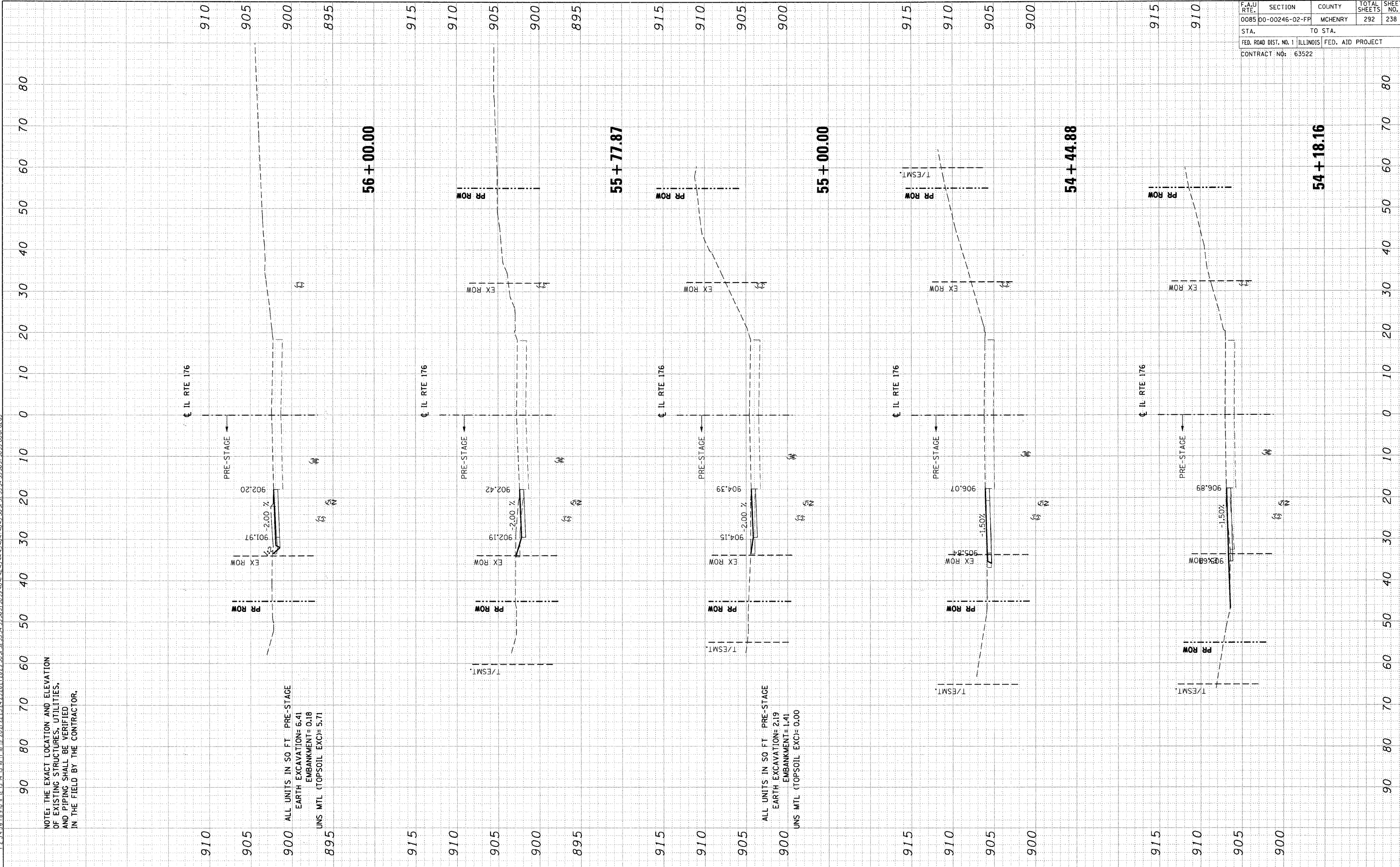
905 ALL UNITS IN 50 FT. PRE-STAGE
 EARTH EXCAVATION= 40.04
 EMBANKMENT= 0.23
 UNS MTL (TOPSOIL EXC)= 16.07

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	238
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO: 63522				

FINAL SURVEY	DATE
NO. _____	_____
BY _____	_____
NO. _____	_____
BY _____	_____
NO. _____	_____
BY _____	_____
NO. _____	_____

ORIGINAL SURVEY	DATE
NO. _____	_____
BY _____	_____
NO. _____	_____
BY _____	_____
NO. _____	_____
BY _____	_____
NO. _____	_____

\\P1021002.DGN...AL021002.DGN...VPC021002.DGN...STANWIRJ
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NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 6.41
 EMBANKMENT= 0.18
 UNS MTL (TOPSOIL EXC)= 5.71

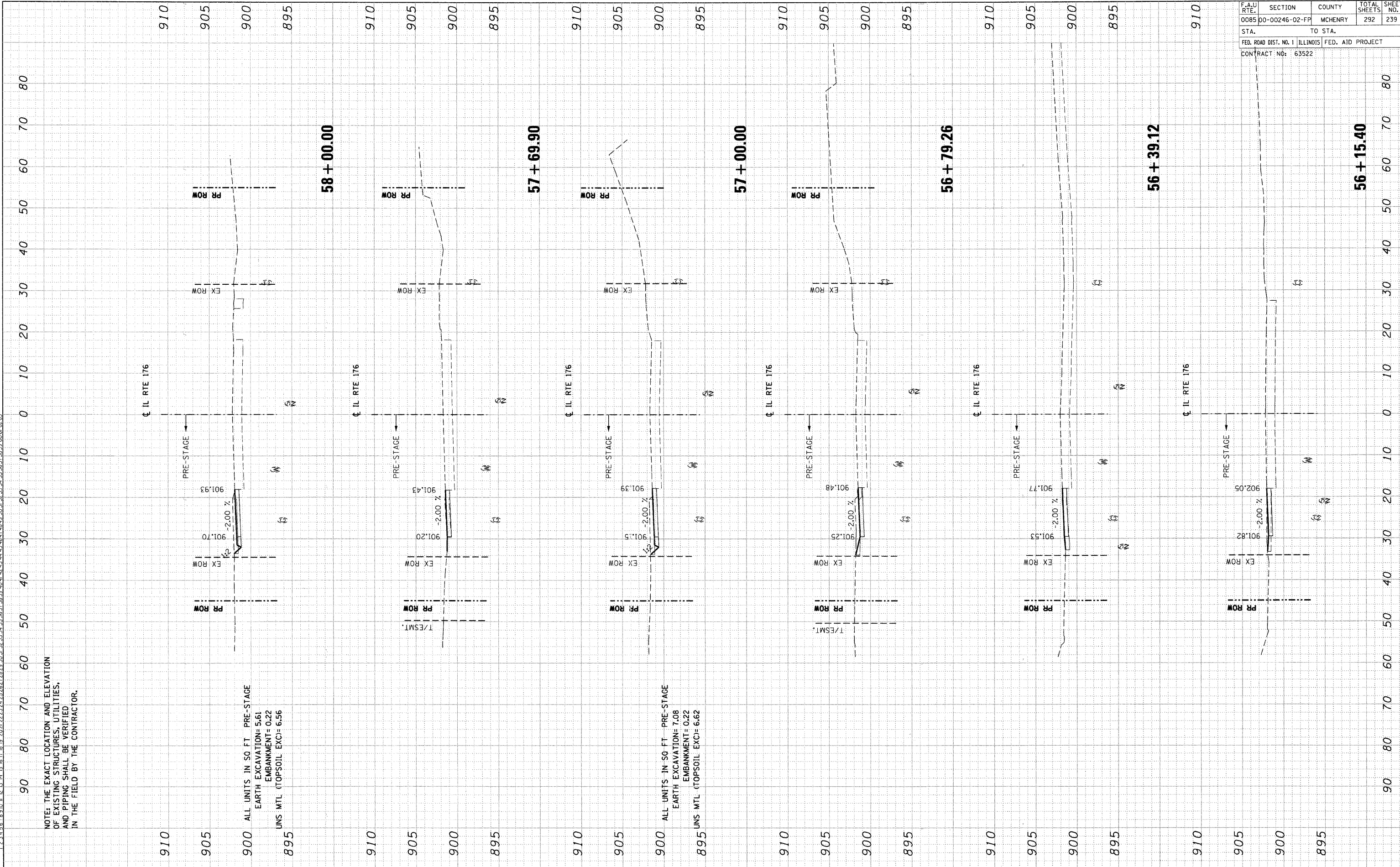
ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 2.19
 EMBANKMENT= 1.41
 UNS MTL (TOPSOIL EXC)= 0.00

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	239
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO: 63522				

FINAL SURVEY	BY	DATE
REVIEWED		
NOTED		
CHECKED		

ORIGINAL SURVEY	BY	DATE
REVIEWED		
NOTED		
CHECKED		

\P\091002.DGN - \A\1024002.DGN - \V\1024002.DGN - \C\1024002.DGN - \S\1024002.DGN - \E\1024002.DGN
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NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

ALL UNITS IN 50 FT PRE-STAGE
 EARTH EXCAVATION= 5.61
 EMBANKMENT= 0.22
 UNS MTL (TOPSOIL EXC)= 6.56

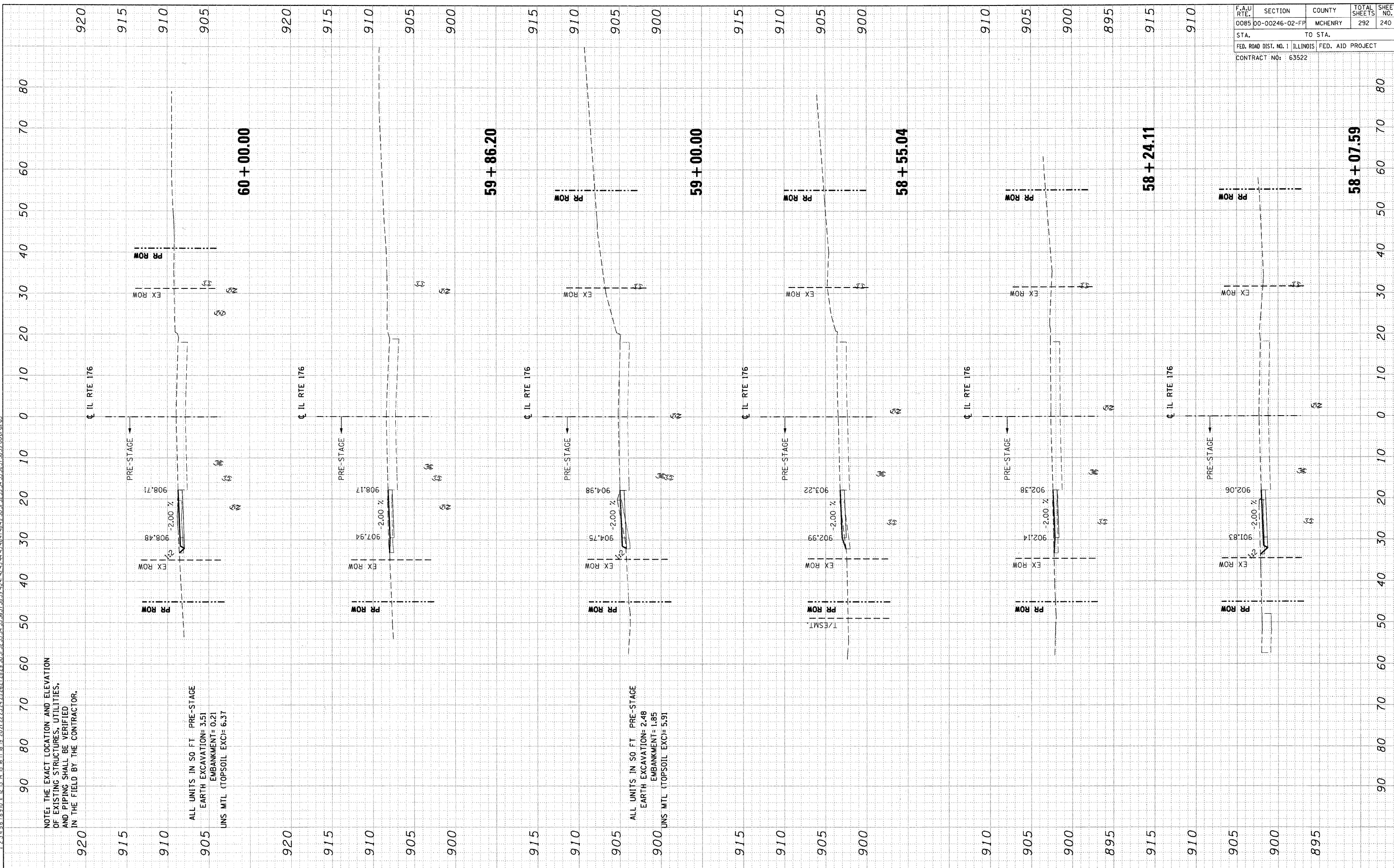
ALL UNITS IN 50 FT PRE-STAGE
 EARTH EXCAVATION= 7.08
 EMBANKMENT= 0.22
 UNS MTL (TOPSOIL EXC)= 6.62

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	240
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO: 63522				

FINAL SURVEY	CHECKED	DATE
NOTED	PLOTTED	
AREAS	TEMPLATE	
NO.	CHECKED	

ORIGINAL SURVEY	BY	DATE
NOTED		
AREAS		
NO.		

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NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

ALL UNITS IN 50 FT. PRE-STAGE
 EARTH EXCAVATION= 3.51
 EMBANKMENT= 0.21
 UNS. MTL (TOPSOIL EXC)= 6.37

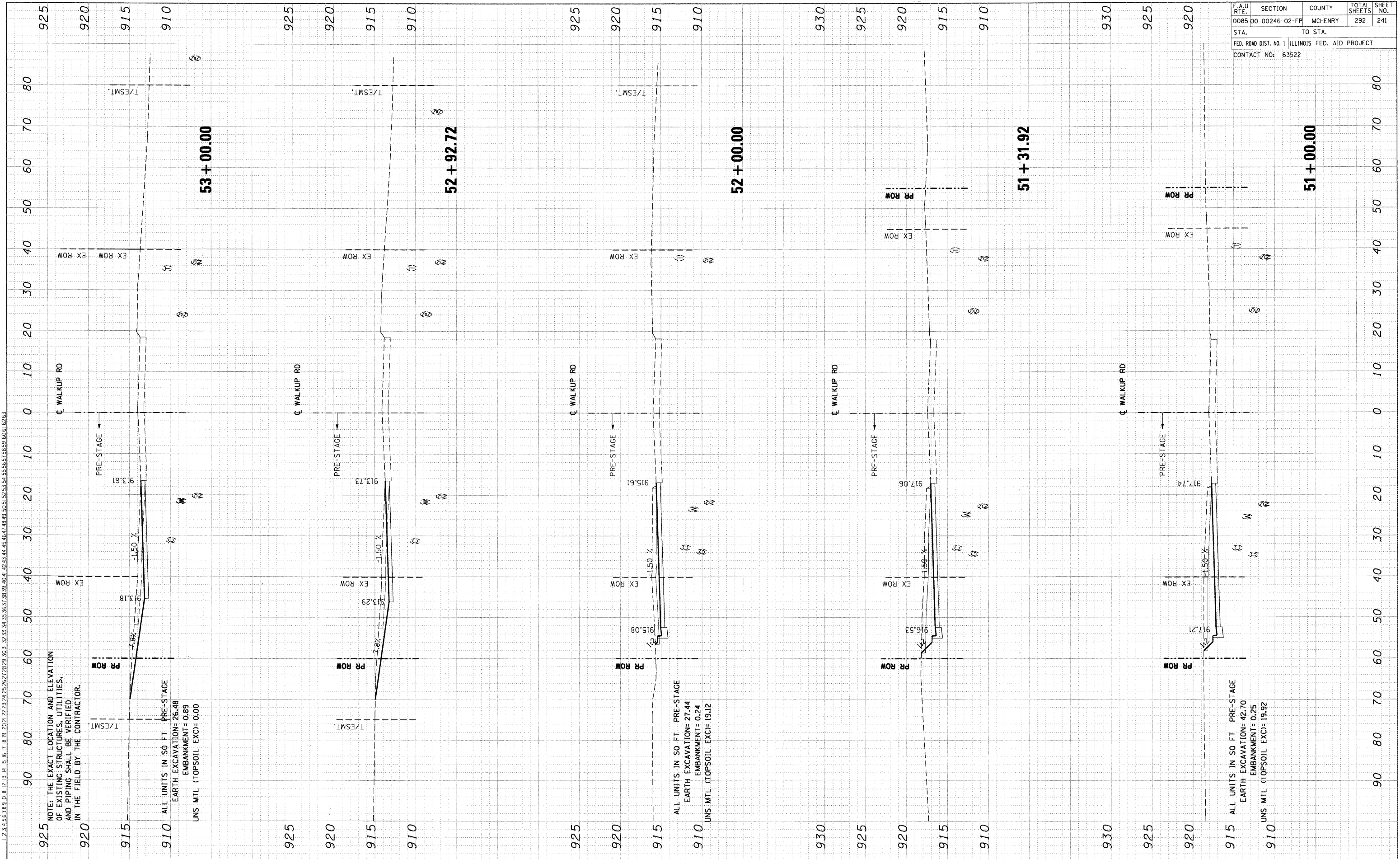
ALL UNITS IN 50 FT. PRE-STAGE
 EARTH EXCAVATION= 2.48
 EMBANKMENT= 1.85
 UNS. MTL (TOPSOIL EXC)= 5.91

F.A.U. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	241
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTACT NO: 63522				

FINISH SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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 6-09-2016 16:39:21 \\FS-044\AMVAULT\TRANS_07\2202\300_03\CIVL\CAD\02 CONTRACT\VA_TENG\SHEET\X502\A004.SHT
 123456789 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63



925 NOTE: THE EXACT LOCATION AND ELEVATION
 OF EXISTING STRUCTURES, UTILITIES,
 AND PIPING SHALL BE VERIFIED
 IN THE FIELD BY THE CONTRACTOR.

910 ALL UNITS IN SQ FT PRE-STAGE
 EARTH EXCAVATION: 26.48
 EMBANKMENT: 0.89
 UNS MTL (TOPSOIL EXC): 0.00

ALL UNITS IN SQ FT PRE-STAGE
 EARTH EXCAVATION: 27.44
 EMBANKMENT: 0.24
 UNS MTL (TOPSOIL EXC): 19.12

915 ALL UNITS IN SQ FT PRE-STAGE
 EARTH EXCAVATION: 42.70
 EMBANKMENT: 0.25
 UNS MTL (TOPSOIL EXC): 19.92

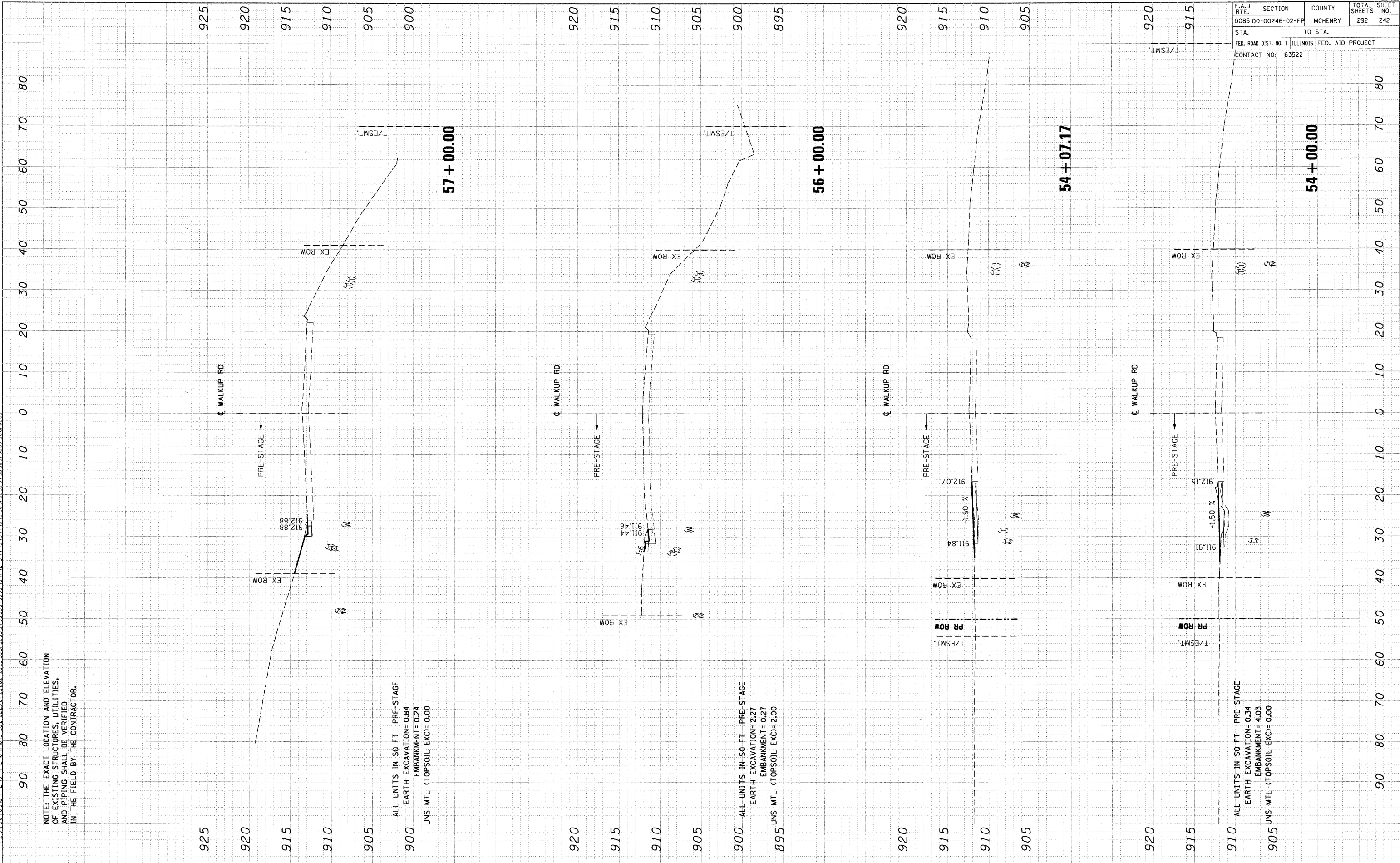
PRESTAGE CROSS-SECTIONS: WALKUP ROAD

DATE	
BY	
NO.	
AREAS CHECKED	
TEMP. DATE	
TEMPLATE	
NOTE BOOK	
SURVEY	
PILOTTED	
SURVEYED	
FINAL	

DATE	
BY	
NO.	
AREAS CHECKED	
TEMPLATE	
NOTE BOOK	
SURVEY	
PILOTTED	
SURVEYED	
ORIGINAL	

\\P021A001.DGN, \\P021A002.DGN, \\P021A003.DGN, \\P021A004.DGN, \\P021A005.DGN, \\P021A006.DGN, \\P021A007.DGN, \\P021A008.DGN, \\P021A009.DGN, \\P021A010.DGN, \\P021A011.DGN, \\P021A012.DGN, \\P021A013.DGN, \\P021A014.DGN, \\P021A015.DGN, \\P021A016.DGN, \\P021A017.DGN, \\P021A018.DGN, \\P021A019.DGN, \\P021A020.DGN, \\P021A021.DGN, \\P021A022.DGN, \\P021A023.DGN, \\P021A024.DGN, \\P021A025.DGN, \\P021A026.DGN, \\P021A027.DGN, \\P021A028.DGN, \\P021A029.DGN, \\P021A030.DGN, \\P021A031.DGN, \\P021A032.DGN, \\P021A033.DGN, \\P021A034.DGN, \\P021A035.DGN, \\P021A036.DGN, \\P021A037.DGN, \\P021A038.DGN, \\P021A039.DGN, \\P021A040.DGN, \\P021A041.DGN, \\P021A042.DGN, \\P021A043.DGN, \\P021A044.DGN, \\P021A045.DGN, \\P021A046.DGN, \\P021A047.DGN, \\P021A048.DGN, \\P021A049.DGN, \\P021A050.DGN, \\P021A051.DGN, \\P021A052.DGN, \\P021A053.DGN, \\P021A054.DGN, \\P021A055.DGN, \\P021A056.DGN, \\P021A057.DGN, \\P021A058.DGN, \\P021A059.DGN, \\P021A060.DGN
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NOTE: THE EXACT LOCATION AND ELEVATION
 OF EXISTING STRUCTURES, UTILITIES,
 AND PIPING SHALL BE VERIFIED
 IN THE FIELD BY THE CONTRACTOR.



ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 0.84
 EMBANKMENT= 0.24
 UNS MTL (TOPSOIL EXC)= 0.00

ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 2.27
 EMBANKMENT= 0.27
 UNS MTL (TOPSOIL EXC)= 2.00

ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 0.34
 EMBANKMENT= 4.03
 UNS MTL (TOPSOIL EXC)= 0.00

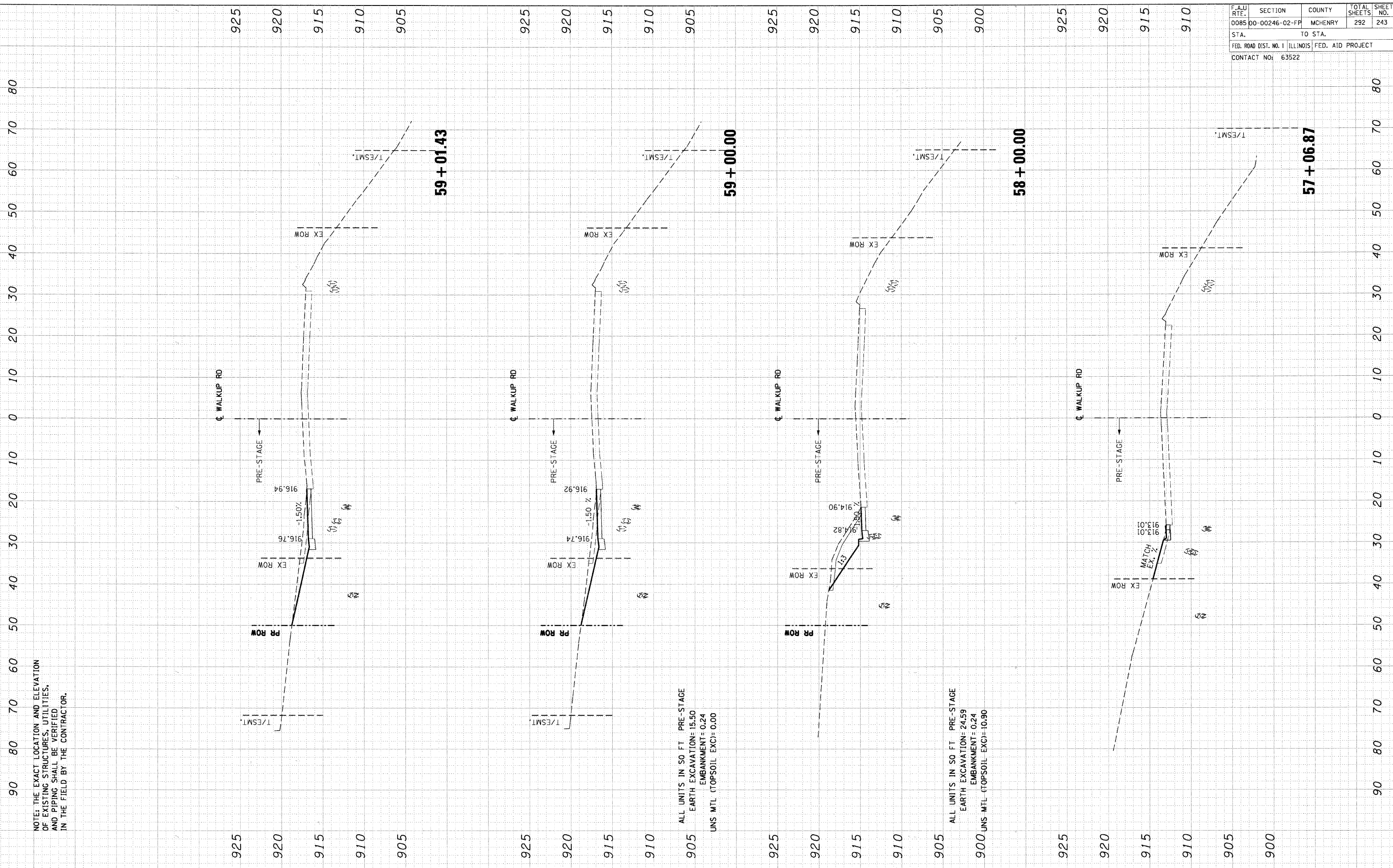
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0085	00-00246-02-FP	MCHENRY	292	242
STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
CONTACT NO: 63522				

F.A.U. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	243
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTACT NO: 63522				

DATE	BY
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED

DATE	BY
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
	TEMPLATE
	AREAS CHECKED

\\XPRO2A001.DGN, \\XPRO2A001.DGN, \\PI021A002.DGN, \\PI021A002.DGN, \\PM021A001.DGN, \\PM021A001.DGN, \\XPRO2A001.DGN, STANKR.J
 6-09-20, 16:39:22 \\S-0044\MMV\ALT.D-TRANS-07\2202\300-03\CVL\CAD\02 CONTRACT\VA TENG\SHEET\VS02\A004.SHT
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NOTES: THE EXACT LOCATION AND ELEVATION
 OF EXISTING STRUCTURES, UTILITIES,
 AND PIPING SHALL BE VERIFIED
 IN THE FIELD BY THE CONTRACTOR.

ALL UNITS IN 50 FT PRE-STAGE
 EARTH EXCAVATION= 15.50
 EMBANKMENT= 0.24
 UNS MTL (TOPSOIL EXC)= 0.00

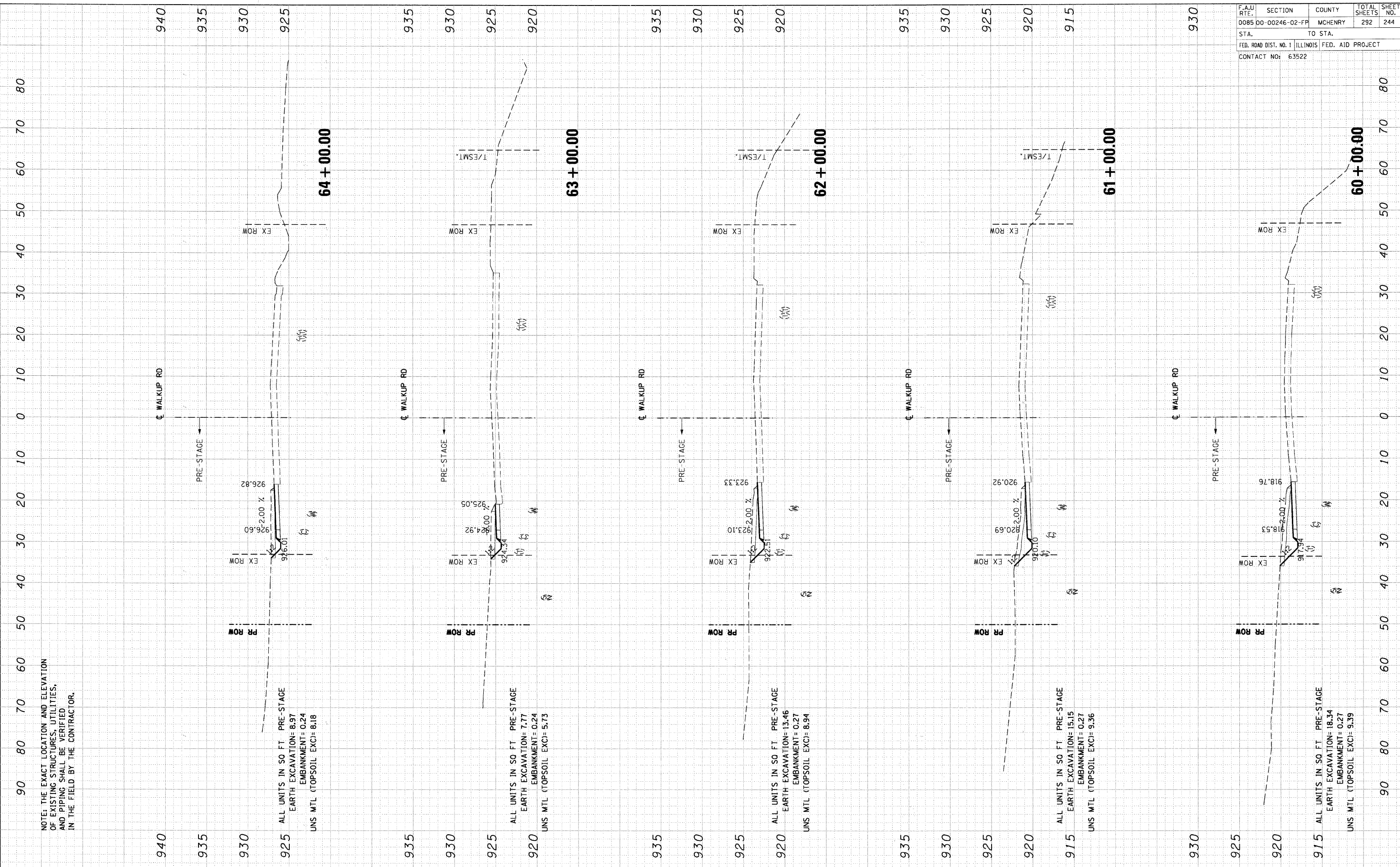
ALL UNITS IN 50 FT PRE-STAGE
 EARTH EXCAVATION= 24.59
 EMBANKMENT= 0.24
 UNS MTL (TOPSOIL EXC)= 10.90

DATE	BY

DATE	BY

\XPRO2\A001.DGN, \XPRO2\A001.DGN, \XPRO2\A001.DGN, \XPRO2\A001.DGN, \XPRO2\A001.DGN, \XPRO2\A001.DGN, \XPRO2\A001.DGN, \XPRO2\A001.DGN, \XPRO2\A001.DGN, \XPRO2\A001.DGN
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 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D085	00-00246-02-FF	MCHENRY	292	244
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTACT NO: 63522				



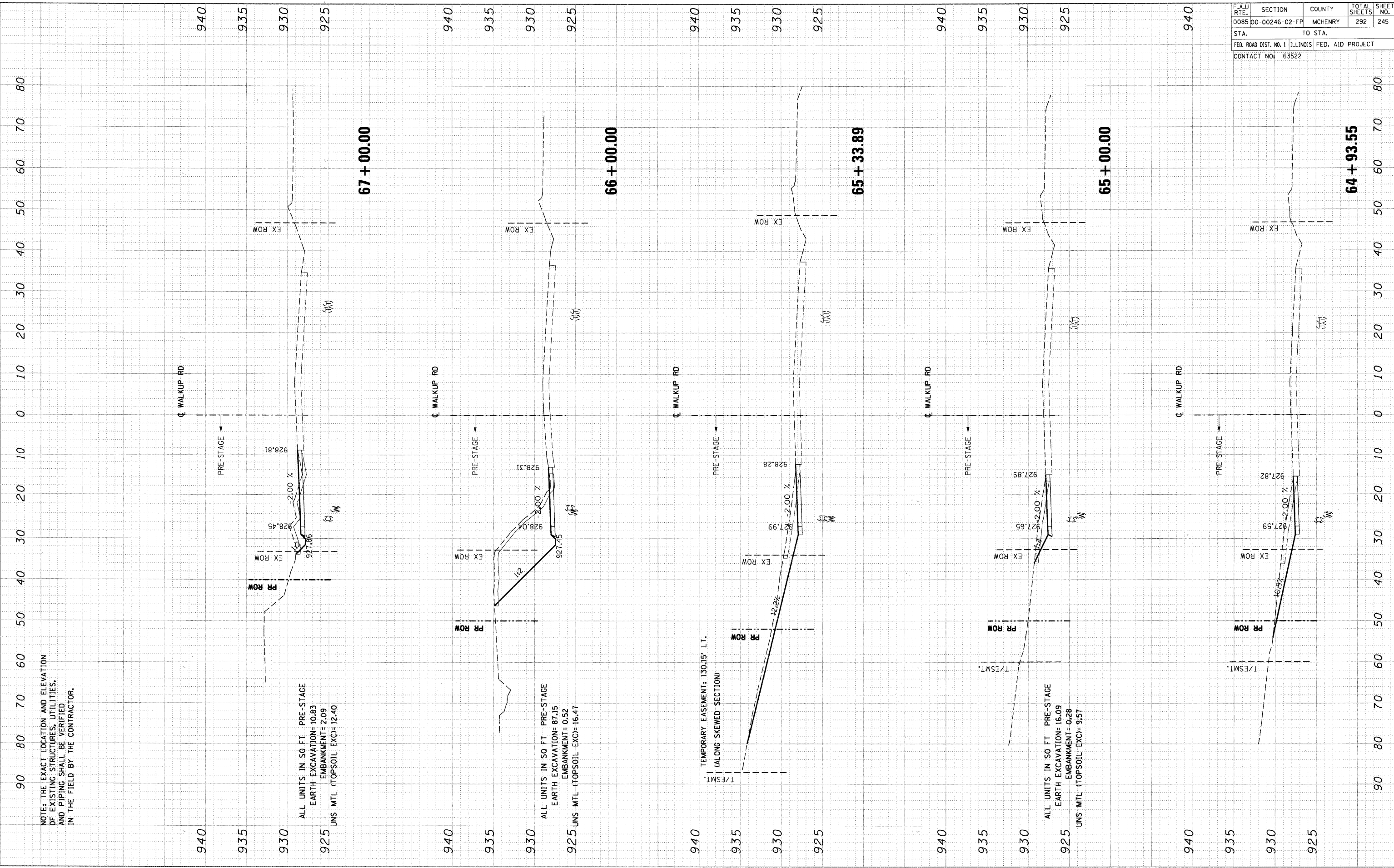
NOTE: THE EXACT LOCATION AND ELEVATION
 OF EXISTING STRUCTURES, UTILITIES,
 AND PIPING SHALL BE VERIFIED
 IN THE FIELD BY THE CONTRACTOR.

DATE	BY

DATE	BY

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F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085 00-00246-02-FF		MCHENRY	292	245
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTACT NO: 63522				



NOTE: THE EXACT LOCATION AND ELEVATION
 OF EXISTING STRUCTURES, UTILITIES,
 AND PIPING SHALL BE VERIFIED
 IN THE FIELD BY THE CONTRACTOR.

ALL UNITS IN SQ FT PRE-STAGE
 EARTH EXCAVATION: 10.83
 EMBANKMENT: 2.09
 UNS MTL (TOPSOIL EXC): 12.40

ALL UNITS IN SQ FT PRE-STAGE
 EARTH EXCAVATION: 87.15
 EMBANKMENT: 0.52
 UNS MTL (TOPSOIL EXC): 16.47

TEMPORARY EASEMENT: 130.15' LT.
 (ALONG SKEWED SECTION)

ALL UNITS IN SQ FT PRE-STAGE
 EARTH EXCAVATION: 16.09
 EMBANKMENT: 0.28
 UNS MTL (TOPSOIL EXC): 9.57

NO.	DATE	BY

NO.	DATE	BY

.\VP02\A00.DGN, \VP02\A00.DGN, \VP02\A00.DGN, \VP02\A00.DGN, \VP02\A00.DGN
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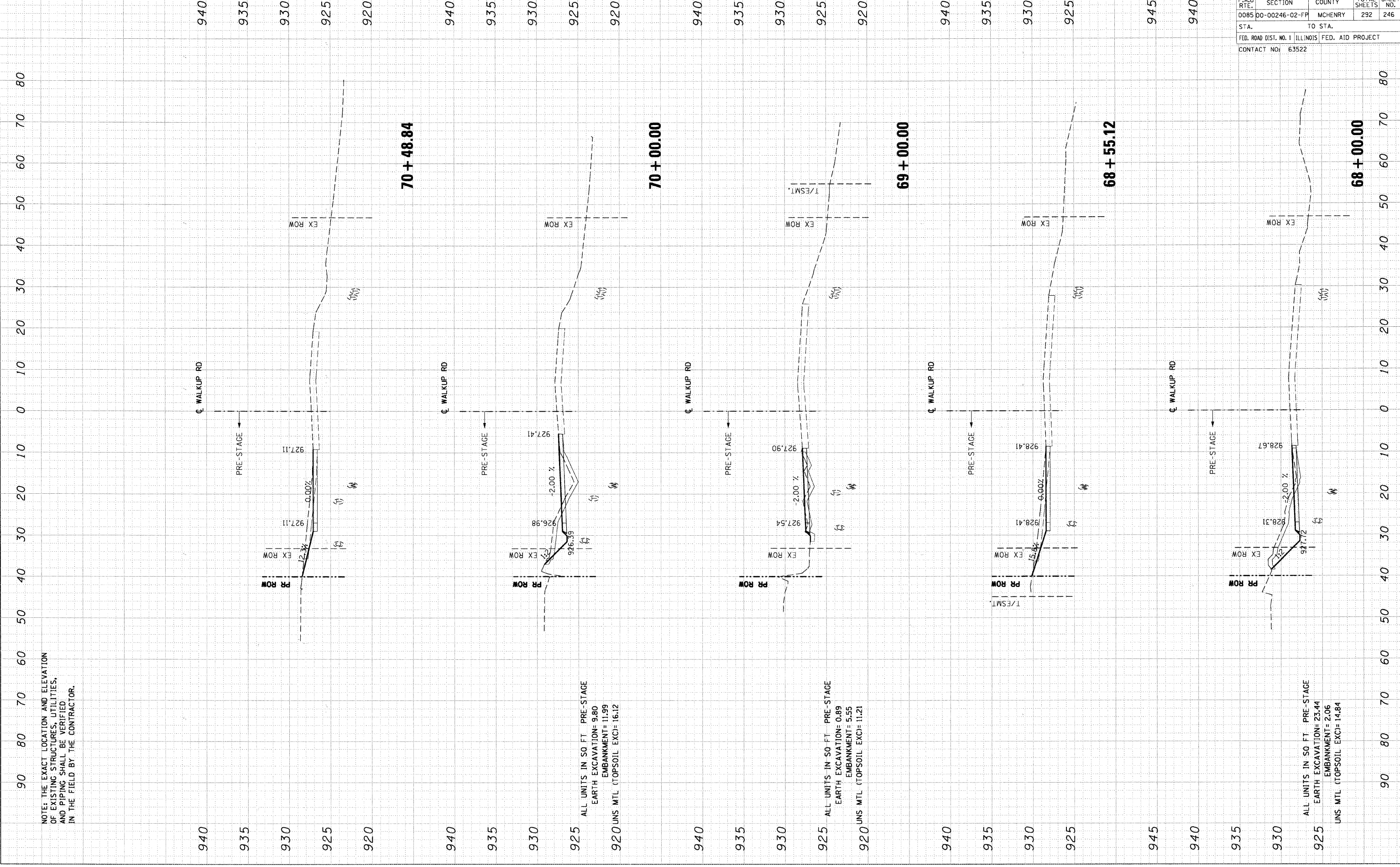
NOTE: THE EXACT LOCATION AND ELEVATION
 OF EXISTING STRUCTURES, UTILITIES,
 AND PIPING SHALL BE VERIFIED
 IN THE FIELD BY THE CONTRACTOR.

ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 9.80
 EMBANKMENT= 11.99
 UNS MTL (TOPSOIL EXC)= 16.12

ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 8.89
 EMBANKMENT= 5.55
 UNS MTL (TOPSOIL EXC)= 11.21

ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 23.44
 EMBANKMENT= 2.06
 UNS MTL (TOPSOIL EXC)= 14.84

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	246
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		
CONTACT NO: 63522		FED. AID PROJECT		

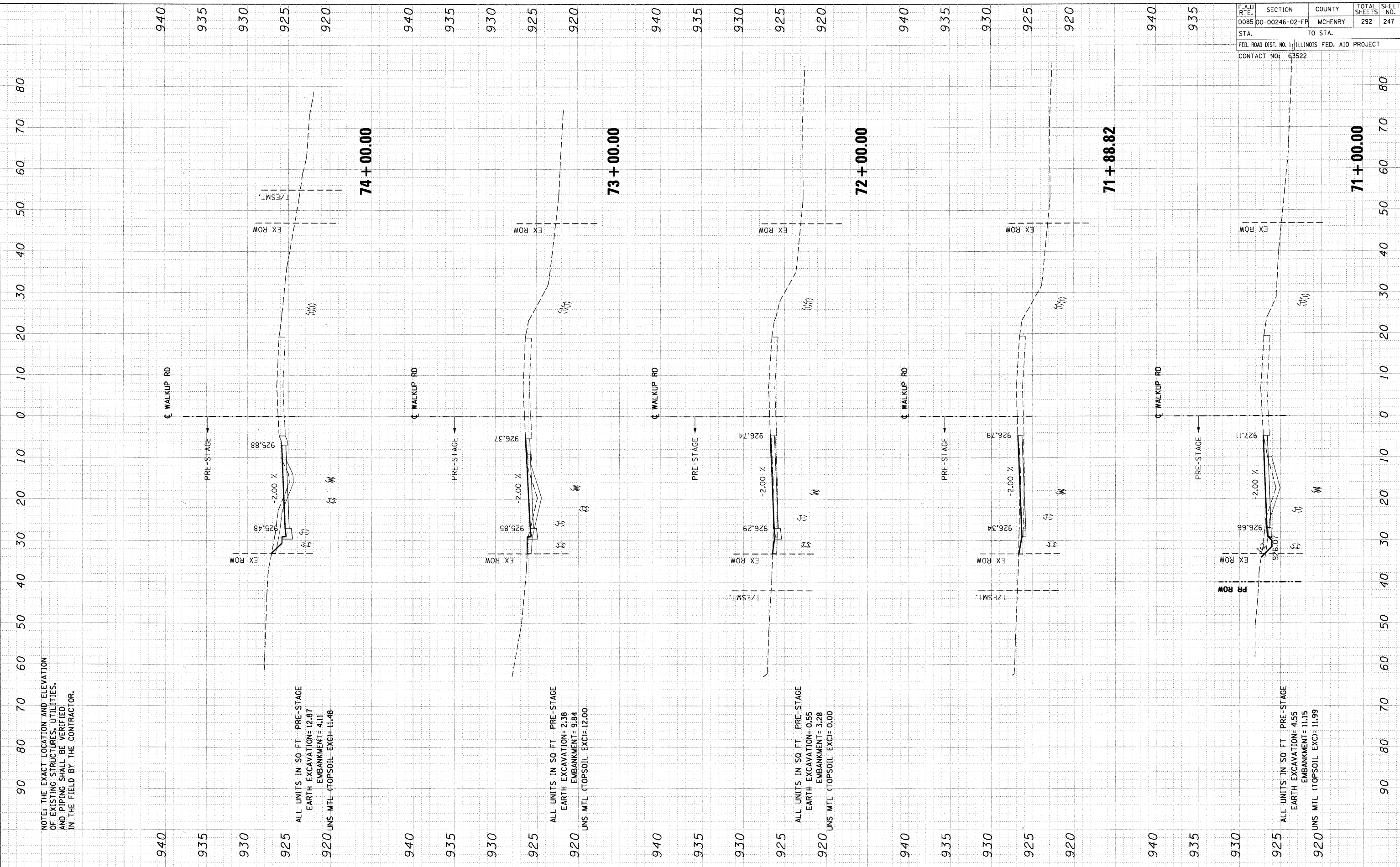


DATE	
BY	
NO.	
AREAS CHECKED	
TEMPLE	
PLOTTED	
SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
NO.	
AREAS CHECKED	
TEMPLE	
PLOTTED	
SURVEY	
NOTE BOOK	
NO.	

\P02\A001.DGN, \VRC2\A001.DGN, \P02\A002.DGN, \P02\A003.DGN, \P02\A004.DGN, \VRC2\A001.DGN, STAMR.LJ
 6-09-2011 16:39:24 \\FS-044\MMVAULT\TRANS_07\2202\300_03\CIVIL\CAD\02_CONTRACT\VA_TENG\SHEET\X502\A004.SHT
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	247
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTACT NO: 63522				



NOTE: THE EXACT LOCATION AND ELEVATION
 OF EXISTING STRUCTURES, UTILITIES,
 AND PIPING SHALL BE VERIFIED
 IN THE FIELD BY THE CONTRACTOR.

ALL UNITS IN SO FT PRE-STAGE
 EARTH EXCAVATION= 12.87
 EMBANKMENT= 4.11
 UNS MTL (TOPSOIL EXC)= 11.48

ALL UNITS IN SO FT PRE-STAGE
 EARTH EXCAVATION= 2.38
 EMBANKMENT= 9.84
 UNS MTL (TOPSOIL EXC)= 12.00

ALL UNITS IN SO FT PRE-STAGE
 EARTH EXCAVATION= 0.55
 EMBANKMENT= 3.28
 UNS MTL (TOPSOIL EXC)= 0.00

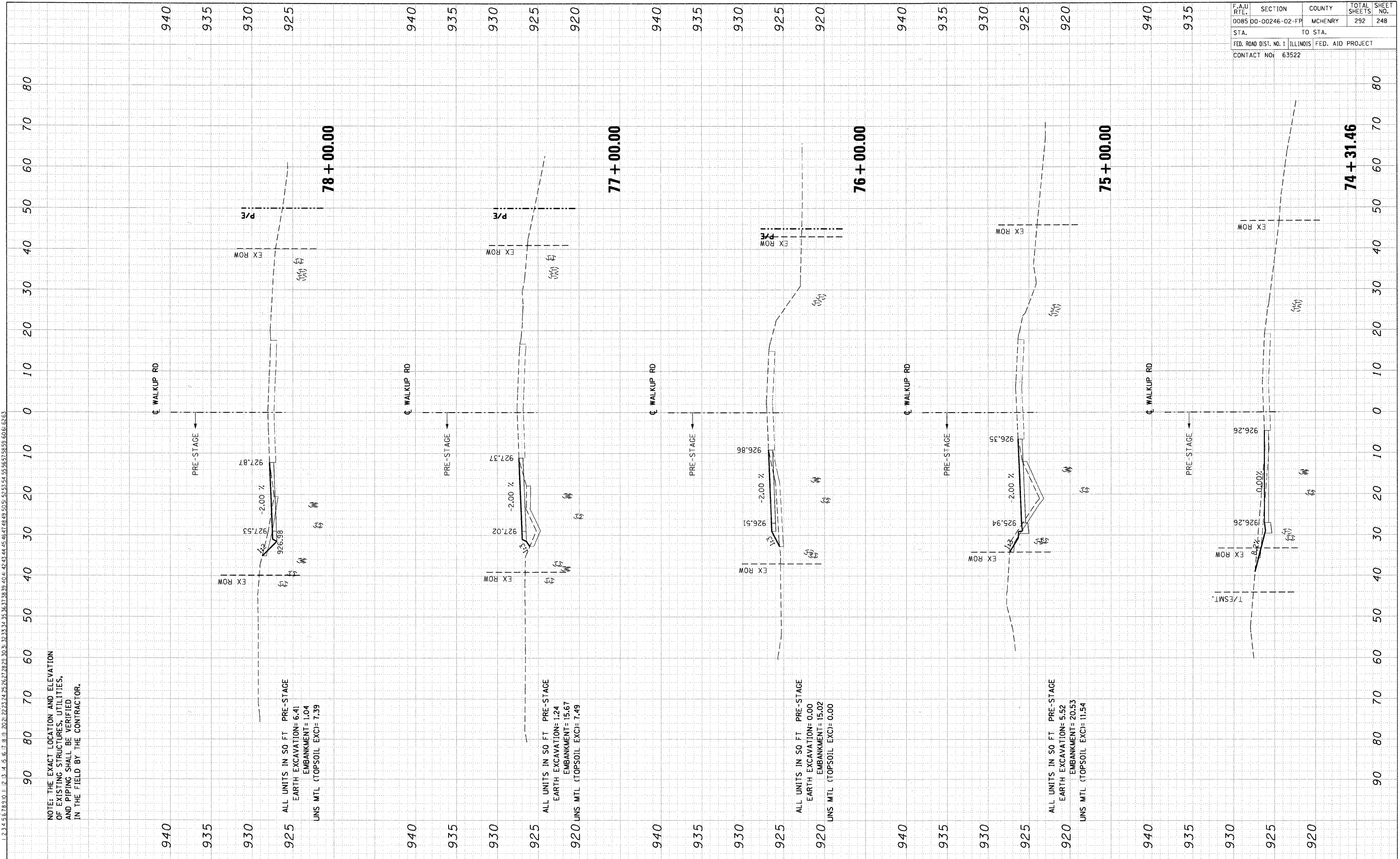
ALL UNITS IN SO FT PRE-STAGE
 EARTH EXCAVATION= 4.55
 EMBANKMENT= 11.15
 UNS MTL (TOPSOIL EXC)= 11.99

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085 00-00246-02-FF		MCHENRY	292	248
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTACT NO: 63522				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	

\VP021A00.DGN, \VP021A00.DGN, \VP021A00.DGN, \VP021A00.DGN, \VP021A00.DGN, \VP021A00.DGN, \VP021A00.DGN
 6-09-2014, 6:35:25 \\S-0344\MM\VAULT\T-TRANS_07\2202_3000_03\CIVIL\GMD\02 CONTRACT\VA TENGASHEET\XS02A004.SIT 57 ANRJR.J
 L 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63



NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 6.41
 EMBANKMENT= 1.04
 UNS MTL (TOPSOIL EXC)= 7.39

ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 1.24
 EMBANKMENT= 15.67
 UNS MTL (TOPSOIL EXC)= 7.49

ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 0.00
 EMBANKMENT= 15.02
 UNS MTL (TOPSOIL EXC)= 0.00

ALL UNITS IN SO FT. PRE-STAGE
 EARTH EXCAVATION= 5.52
 EMBANKMENT= 20.53
 UNS MTL (TOPSOIL EXC)= 11.54

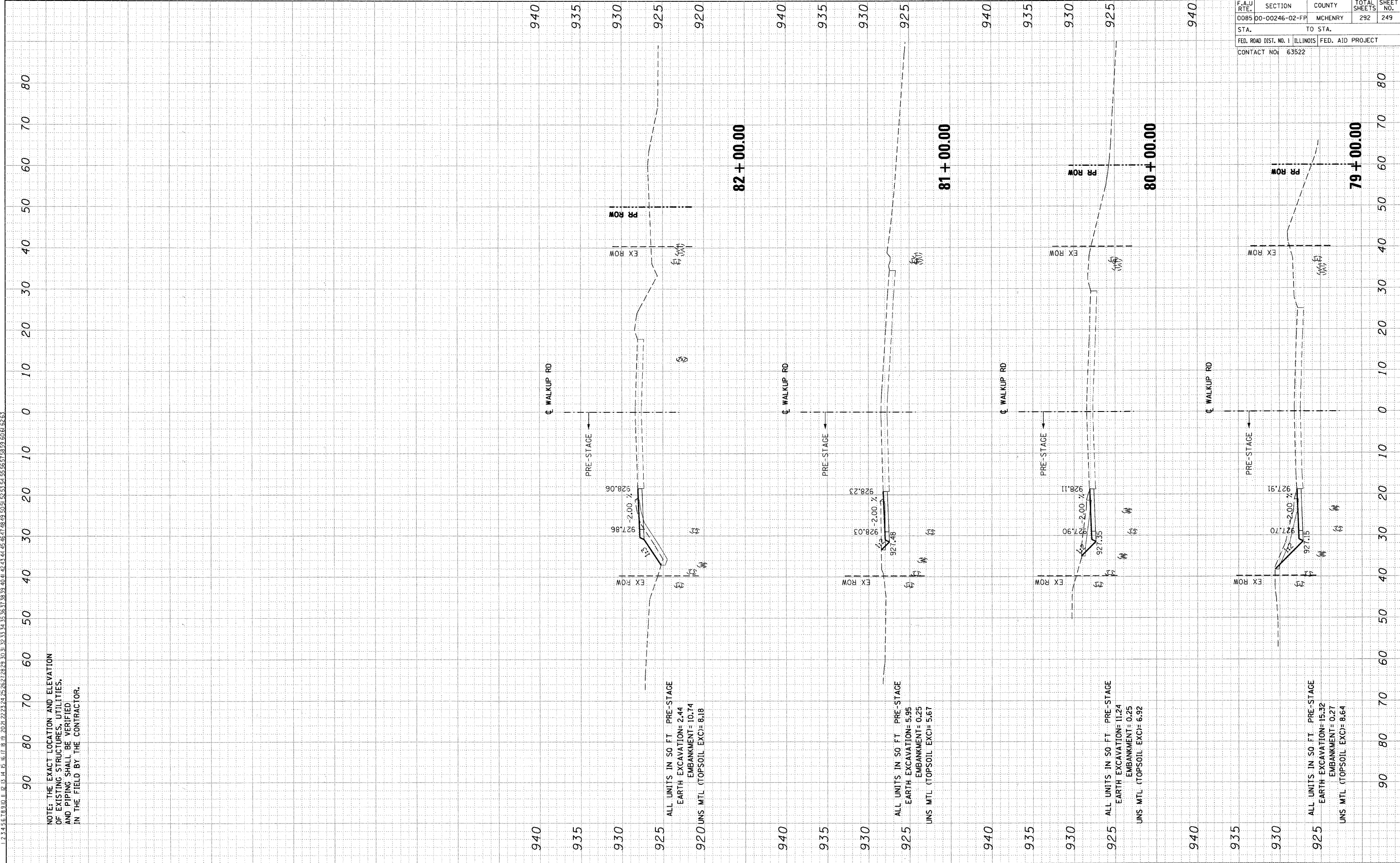
PRESTAGE CROSS-SECTIONS: WALKUP ROAD

FINN	DATE
SURVEYED	BY
NOTE BOOK	NO.
AREAS CHECKED	

ORIGINAL	DATE
FLIPPED	BY
NOTE BOOK	NO.
AREAS CHECKED	

\\PRO21A001.DGN, \\PRO21A002.DGN, \\PRO21A003.DGN, \\PRO21A004.DGN, \\PRO21A005.DGN, \\PRO21A006.DGN, \\PRO21A007.DGN, \\PRO21A008.DGN, \\PRO21A009.DGN, \\PRO21A010.DGN, \\PRO21A011.DGN, \\PRO21A012.DGN, \\PRO21A013.DGN, \\PRO21A014.DGN, \\PRO21A015.DGN, \\PRO21A016.DGN, \\PRO21A017.DGN, \\PRO21A018.DGN, \\PRO21A019.DGN, \\PRO21A020.DGN, \\PRO21A021.DGN, \\PRO21A022.DGN, \\PRO21A023.DGN, \\PRO21A024.DGN, \\PRO21A025.DGN, \\PRO21A026.DGN, \\PRO21A027.DGN, \\PRO21A028.DGN, \\PRO21A029.DGN, \\PRO21A030.DGN, \\PRO21A031.DGN, \\PRO21A032.DGN, \\PRO21A033.DGN, \\PRO21A034.DGN, \\PRO21A035.DGN, \\PRO21A036.DGN, \\PRO21A037.DGN, \\PRO21A038.DGN, \\PRO21A039.DGN, \\PRO21A040.DGN, \\PRO21A041.DGN, \\PRO21A042.DGN, \\PRO21A043.DGN, \\PRO21A044.DGN, \\PRO21A045.DGN, \\PRO21A046.DGN, \\PRO21A047.DGN, \\PRO21A048.DGN, \\PRO21A049.DGN, \\PRO21A050.DGN, \\PRO21A051.DGN, \\PRO21A052.DGN, \\PRO21A053.DGN, \\PRO21A054.DGN, \\PRO21A055.DGN, \\PRO21A056.DGN, \\PRO21A057.DGN, \\PRO21A058.DGN, \\PRO21A059.DGN, \\PRO21A060.DGN, \\PRO21A061.DGN, \\PRO21A062.DGN, \\PRO21A063.DGN, \\PRO21A064.DGN, \\PRO21A065.DGN, \\PRO21A066.DGN, \\PRO21A067.DGN, \\PRO21A068.DGN, \\PRO21A069.DGN, \\PRO21A070.DGN, \\PRO21A071.DGN, \\PRO21A072.DGN, \\PRO21A073.DGN, \\PRO21A074.DGN, \\PRO21A075.DGN, \\PRO21A076.DGN, \\PRO21A077.DGN, \\PRO21A078.DGN, \\PRO21A079.DGN, \\PRO21A080.DGN, \\PRO21A081.DGN, \\PRO21A082.DGN, \\PRO21A083.DGN, \\PRO21A084.DGN, \\PRO21A085.DGN, \\PRO21A086.DGN, \\PRO21A087.DGN, \\PRO21A088.DGN, \\PRO21A089.DGN, \\PRO21A090.DGN, \\PRO21A091.DGN, \\PRO21A092.DGN, \\PRO21A093.DGN, \\PRO21A094.DGN, \\PRO21A095.DGN, \\PRO21A096.DGN, \\PRO21A097.DGN, \\PRO21A098.DGN, \\PRO21A099.DGN, \\PRO21A100.DGN

NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.



ALL UNITS IN 50 FT PRE-STAGE
 EARTH EXCAVATION= 2.44
 EMBANKMENT= 10.74
 UNS MTL (TOPSOIL EXC)= 8.18

ALL UNITS IN 50 FT PRE-STAGE
 EARTH EXCAVATION= 5.95
 EMBANKMENT= 0.25
 UNS MTL (TOPSOIL EXC)= 5.67

ALL UNITS IN 50 FT PRE-STAGE
 EARTH EXCAVATION= 11.24
 EMBANKMENT= 0.25
 UNS MTL (TOPSOIL EXC)= 6.92

ALL UNITS IN 50 FT PRE-STAGE
 EARTH EXCAVATION= 15.32
 EMBANKMENT= 0.27
 UNS MTL (TOPSOIL EXC)= 8.64

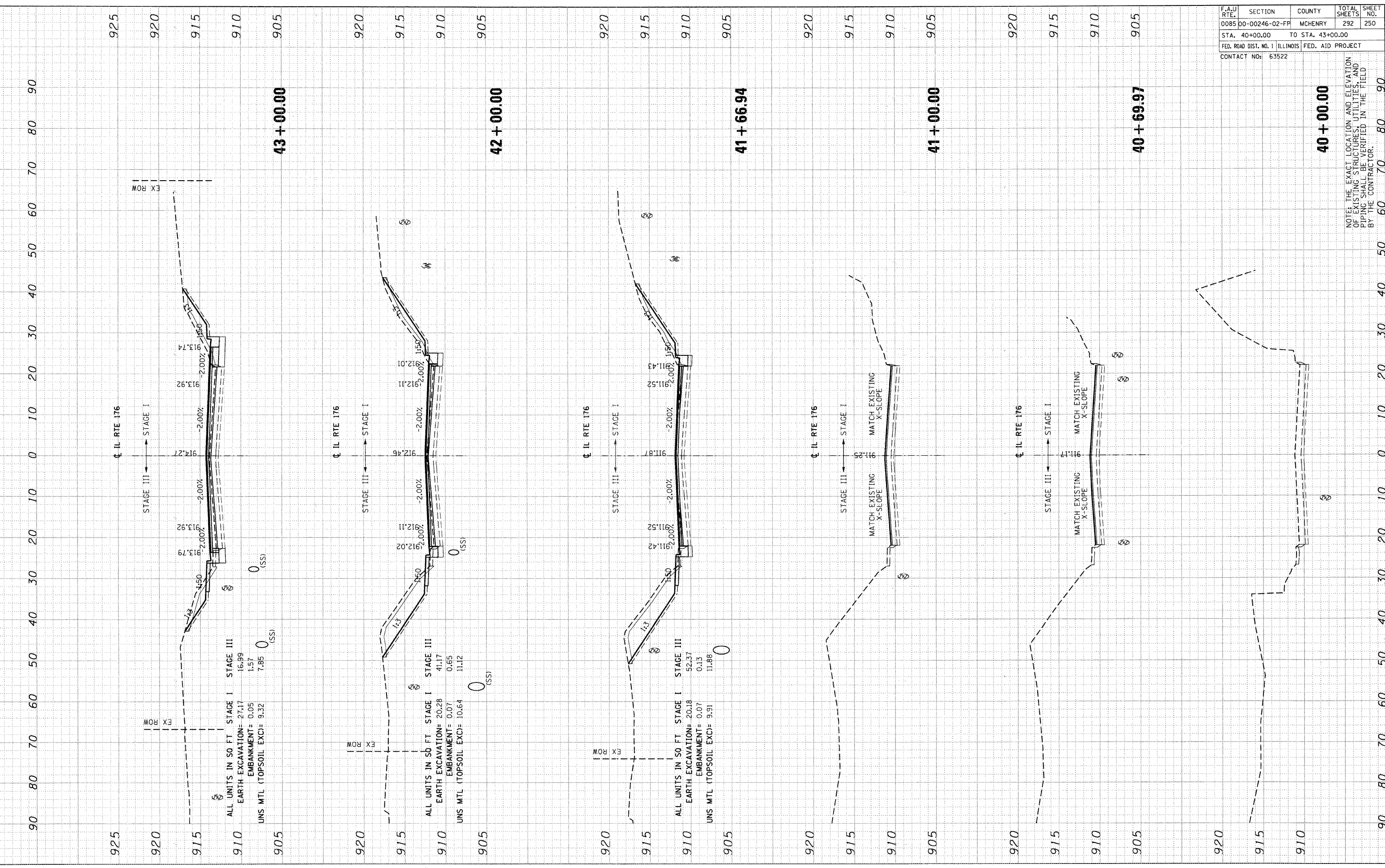
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	DO-00246-02-FP	MCHENRY	292	249
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTACT NO:	63522			

PRESTAGE CROSS-SECTIONS: WALKUP ROAD

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO.
 TEMPLATE AREAS CHECKED
 UNITS IN SO FT STAGE I STAGE III
 EARTH EXCAVATION= 27.17 16.99
 EMBANKMENT= 0.05 1.57
 UNS MTL (TOPSOIL EXC)= 9.32 7.85 (SS)

FINAL SURVEY BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO.
 TEMPLATE AREAS CHECKED
 UNITS IN SO FT STAGE I STAGE III
 EARTH EXCAVATION= 20.28 41.17
 EMBANKMENT= 0.07 0.65
 UNS MTL (TOPSOIL EXC)= 10.64 11.12 (SS)

F.A.U. RTE. 0085 SECTION 00-00246-02-PP COUNTY MCHENRY TOTAL SHEETS 292 SHEET NO. 250
 STA. 40+00.00 TO STA. 43+00.00
 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
 CONTACT NO: 63522



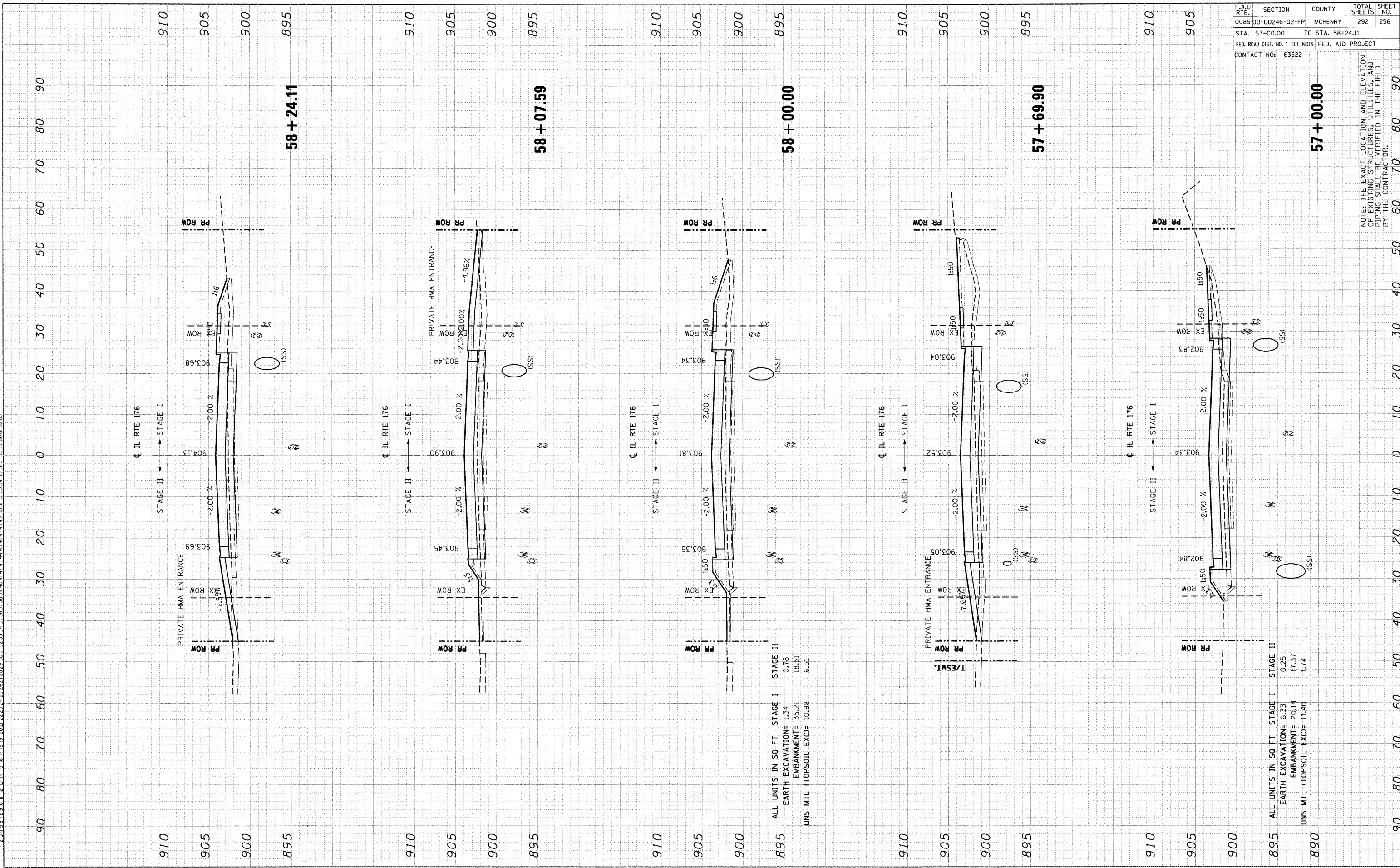
NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

PROPOSED CROSS-SECTIONS: IL RTE 176

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO. DATE
 TEMPLATE AREAS CHECKED
 AREAS CHECKED
 UNITS IN SO FT. STAGE I STAGE II
 EARTH EXCAVATION= 6.33 0.25
 EMBANKMENT= 20.14 17.37
 UNS MTL (TOPSOIL EXC)= 11.40 1.74

ORIGINAL SURVEY BY DATE
 SURVEYED BY DATE
 NOTE BOOK NO. DATE
 TEMPLATE AREAS CHECKED
 AREAS CHECKED
 UNITS IN SO FT. STAGE I STAGE II
 EARTH EXCAVATION= 6.33 0.25
 EMBANKMENT= 20.14 17.37
 UNS MTL (TOPSOIL EXC)= 11.40 1.74

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	256
STA. 57+00.00		TO STA. 58+24.11		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTACT NO: 63522				



ALL UNITS IN SO FT. STAGE I STAGE II
 EARTH EXCAVATION= 1.34 0.78
 EMBANKMENT= 35.21 18.51
 UNS MTL (TOPSOIL EXC)= 10.98 6.51

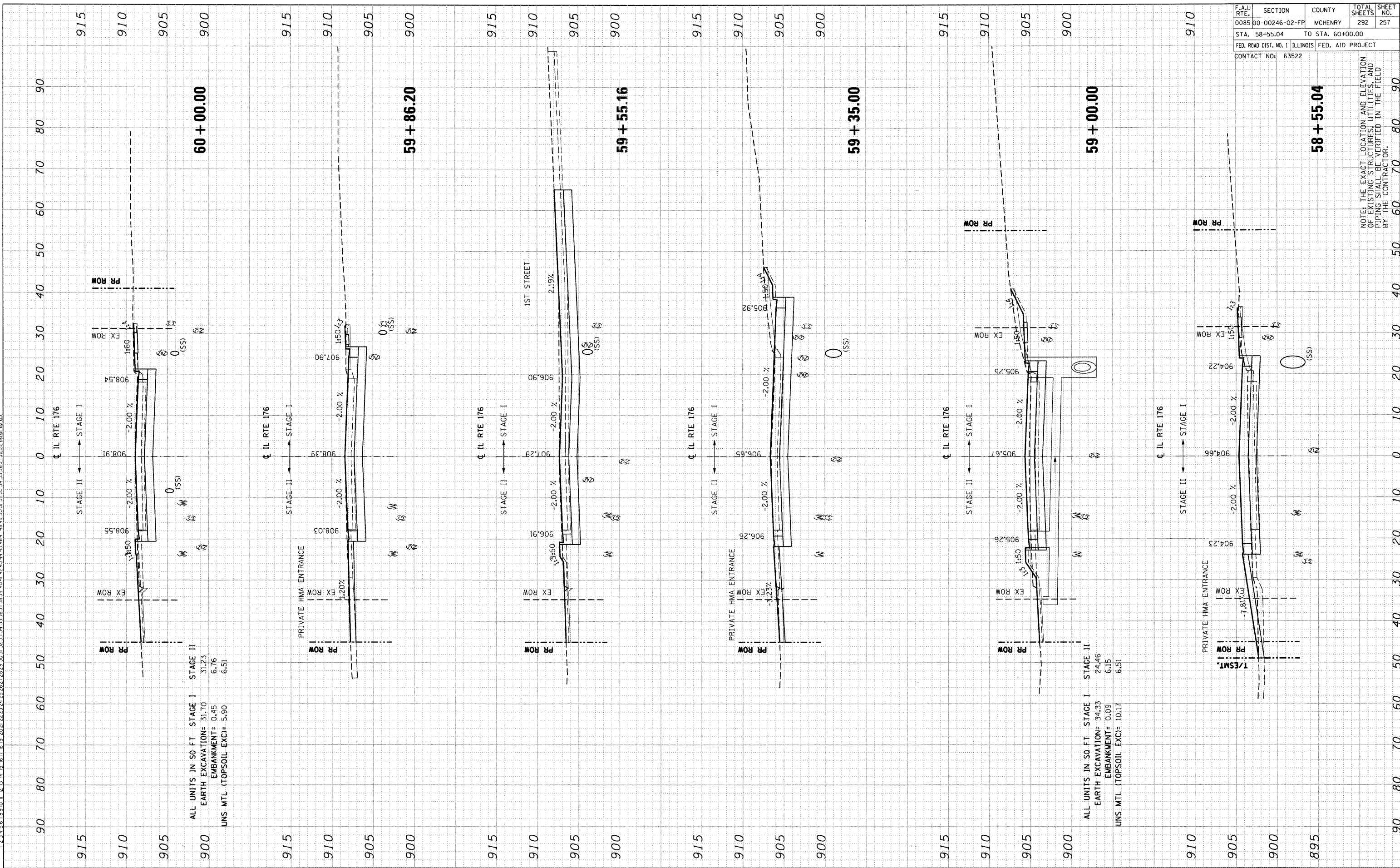
ALL UNITS IN SO FT. STAGE I STAGE II
 EARTH EXCAVATION= 6.33 0.25
 EMBANKMENT= 20.14 17.37
 UNS MTL (TOPSOIL EXC)= 11.40 1.74

NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

FINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLANNED	
AS-BUILT	

ORIGINAL SURVEY	DATE
REVISIONS	BY
NOTED	
PLANNED	
AS-BUILT	

\NW021A024.F.DGN...NW021A024.F.DGN...NW021A024.F.DGN...NW021A024.F.DGN...NW021A024.F.DGN...NW021A024.F.DGN...NW021A024.F.DGN...NW021A024.F.DGN...
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 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63



ALL UNITS IN 50 FT. STAGE I STAGE II
 EARTH EXCAVATION= 31.70 31.23
 EMBANKMENT= 0.45 6.76
 UNS. MTL (TOPSOIL EXC)= 5.90 6.51

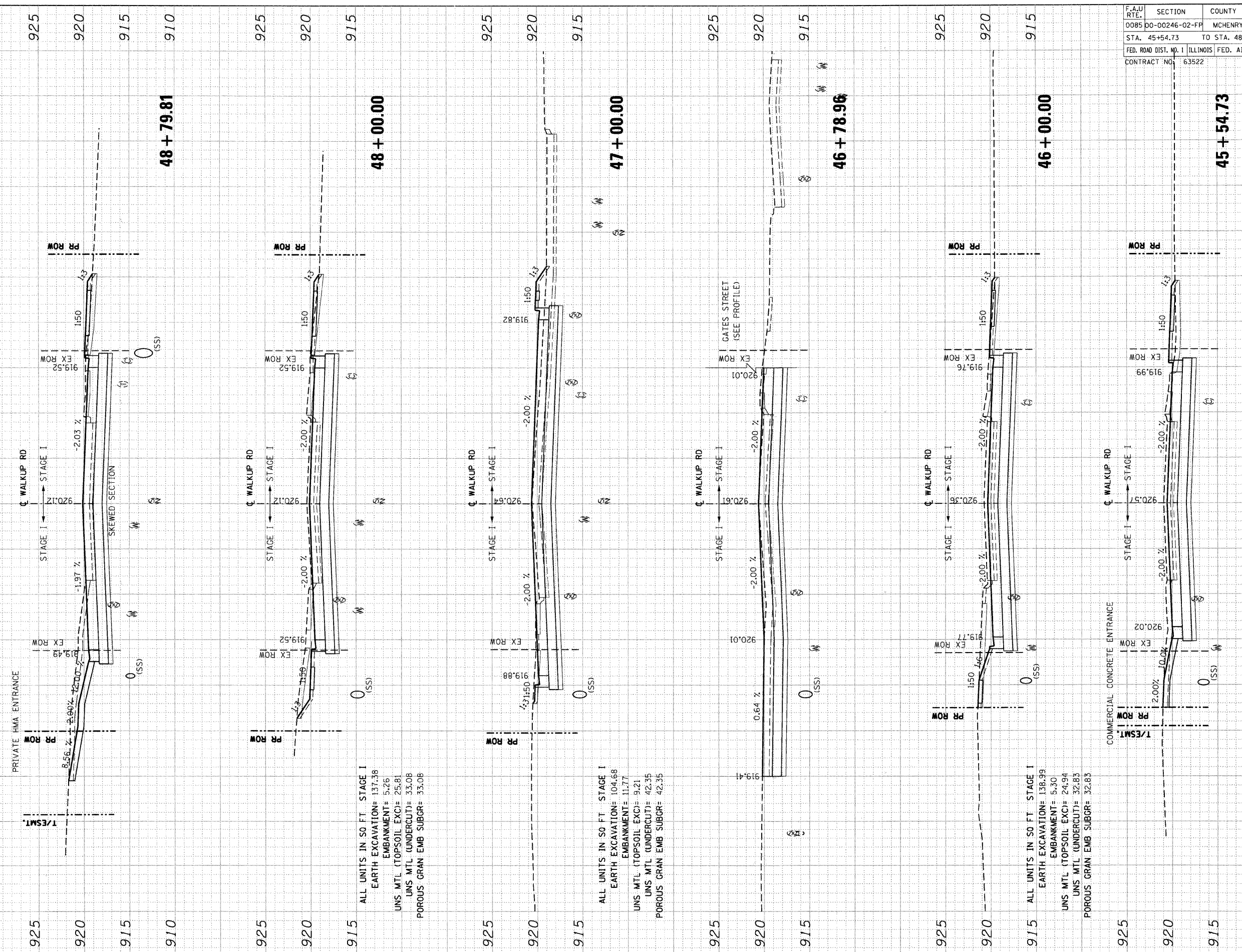
ALL UNITS IN 50 FT. STAGE I STAGE II
 EARTH EXCAVATION= 34.33 24.46
 EMBANKMENT= 0.09 6.15
 UNS. MTL (TOPSOIL EXC)= 10.17 6.51

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	257
STA. 58+55.04	TO STA. 60+00.00			
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTACT NO: 63522				

NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

ORIGINAL SURVEY BY DATE
SURVEYED BY DATE
PROVIDED BY DATE
NOTE BOOK NO. DATE
TEMPLATE NO. DATE
AREAS CHECKED AREAS CHECKED
NO. NO.
X:\W021A025-F.DGN...X:\W021A025-F.DGN...X:\W021A025-F.DGN...X:\W021A025-F.DGN...X:\W021A025-F.DGN...X:\W021A025-F.DGN...X:\W021A025-F.DGN...X:\W021A025-F.DGN...X:\W021A025-F.DGN...X:\W021A025-F.DGN...
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90



ALL UNITS IN SO FT. STAGE I
EARTH EXCAVATION= 137.38
EMBANKMENT= 5.26
UNS. MTL (TOPSOIL EXC)= 25.81
UNS. MTL (UNDERCUT)= 33.08
POROUS GRAN. EMB. SUBGR= 33.08

ALL UNITS IN SO FT. STAGE I
EARTH EXCAVATION= 104.68
EMBANKMENT= 11.77
UNS. MTL (TOPSOIL EXC)= 9.21
UNS. MTL (UNDERCUT)= 42.35
POROUS GRAN. EMB. SUBGR= 42.35

ALL UNITS IN SO FT. STAGE I
EARTH EXCAVATION= 138.99
EMBANKMENT= 5.30
UNS. MTL (TOPSOIL EXC)= 24.94
UNS. MTL (UNDERCUT)= 32.83
POROUS GRAN. EMB. SUBGR= 32.83

COMMERCIAL CONCRETE ENTRANCE

PR ROW

EX ROW

CL WALKUP RD

STAGE I

T/ESMT

PR ROW

EX ROW

CL WALKUP RD

STAGE I

PR ROW

EX ROW

CL WALKUP RD

STAGE I

PR ROW

EX ROW

CL WALKUP RD

STAGE I

PR ROW

EX ROW

CL WALKUP RD

STAGE I

PR ROW

EX ROW

CL WALKUP RD

STAGE I

PR ROW

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CL WALKUP RD

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EX ROW

CL WALKUP RD

STAGE I

PR ROW

EX ROW

CL WALKUP RD

STAGE I

PR ROW

EX ROW

CL WALKUP RD

STAGE I

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	260
STA. 45+54.73		TO STA. 48+79.81		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63522				

NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FF	MCHENRY	292	261
STA. 49+00.00		TO STA. 52+92.72		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO: 63522				

NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

BY	DATE

BY	DATE

FINAL SURVEY NOTE BOOK NO. []

ORIGINAL SURVEY NOTE BOOK NO. []

UNITS IN SQ. FT. STAGE II
 EARTH EXCAVATION= 48.80
 EMBANKMENT= 0.20
 UNS MTL (TOPSOIL EXC)= 14.45
 UNS MTL (UNDERCUT)= 2.52
 UNS MTL (UNDERCUT)= 0.00
 POROUS GRAN EMB SUBGR= 0.00

UNITS IN SQ. FT. STAGE III
 EARTH EXCAVATION= 53.38
 EMBANKMENT= 0.20
 UNS MTL (TOPSOIL EXC)= 14.45
 UNS MTL (UNDERCUT)= 2.52
 UNS MTL (UNDERCUT)= 0.00
 POROUS GRAN EMB SUBGR= 0.00

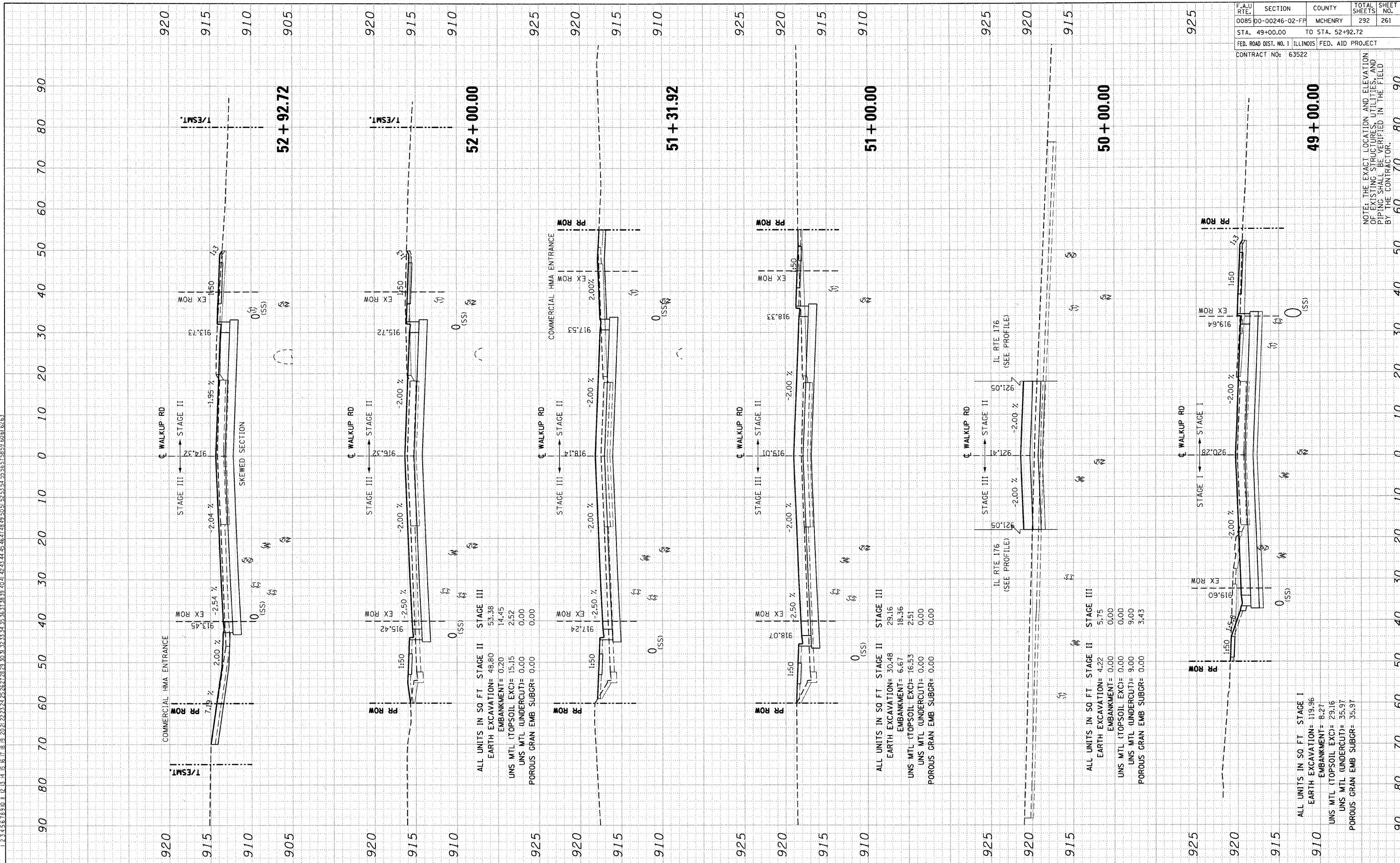
UNITS IN SQ. FT. STAGE II
 EARTH EXCAVATION= 30.48
 EMBANKMENT= 6.67
 UNS MTL (TOPSOIL EXC)= 16.53
 UNS MTL (UNDERCUT)= 0.00
 POROUS GRAN EMB SUBGR= 0.00

UNITS IN SQ. FT. STAGE III
 EARTH EXCAVATION= 29.16
 EMBANKMENT= 18.36
 UNS MTL (TOPSOIL EXC)= 2.51
 UNS MTL (UNDERCUT)= 0.00
 POROUS GRAN EMB SUBGR= 0.00

UNITS IN SQ. FT. STAGE II
 EARTH EXCAVATION= 4.22
 EMBANKMENT= 0.00
 UNS MTL (TOPSOIL EXC)= 0.00
 UNS MTL (UNDERCUT)= 9.00
 POROUS GRAN EMB SUBGR= 0.00

UNITS IN SQ. FT. STAGE III
 EARTH EXCAVATION= 5.75
 EMBANKMENT= 0.00
 UNS MTL (TOPSOIL EXC)= 0.00
 UNS MTL (UNDERCUT)= 9.00
 POROUS GRAN EMB SUBGR= 3.43

UNITS IN SQ. FT. STAGE I
 EARTH EXCAVATION= 119.96
 EMBANKMENT= 8.27
 UNS MTL (TOPSOIL EXC)= 29.16
 UNS MTL (UNDERCUT)= 35.97
 POROUS GRAN EMB SUBGR= 35.97

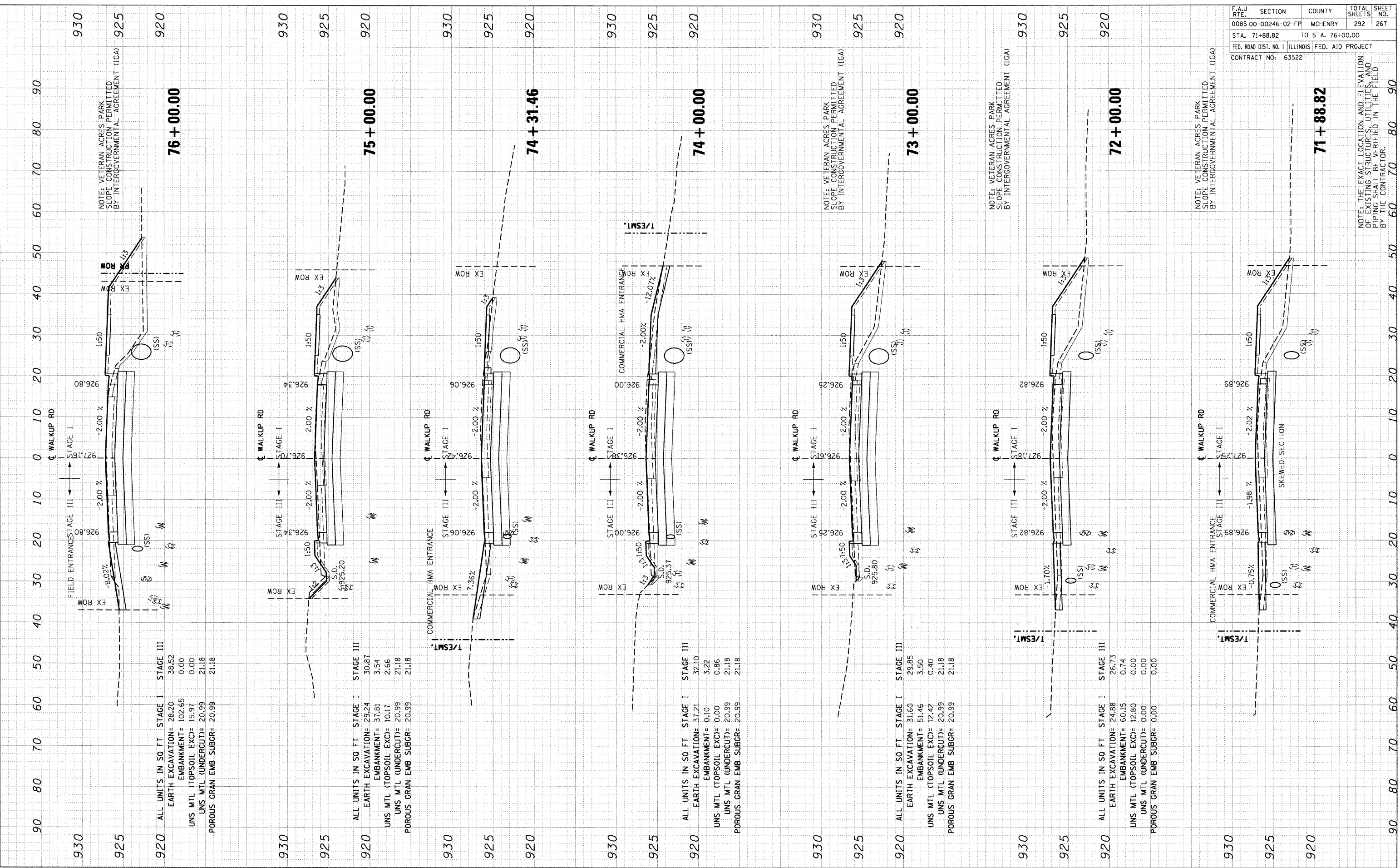


PROPOSED CROSS-SECTIONS: WALKUP ROAD

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

ORIGINAL SURVEY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

PROJECT: WALKUP RD. STA. 71+88.82 TO STA. 76+00.00
 CONTRACT NO. 63522
 COUNTY: MCHENRY
 SECTION: 00-00246-02-FP
 SHEET NO.: 267



PROPOSED CROSS-SECTIONS: WALKUP ROAD

NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

NOTE: VETERAN ACRES PARK. SLOPE CONSTRUCTION PERMITTED BY INTERGOVERNMENTAL AGREEMENT (IGA)

NOTE: VETERAN ACRES PARK. SLOPE CONSTRUCTION PERMITTED BY INTERGOVERNMENTAL AGREEMENT (IGA)

NOTE: VETERAN ACRES PARK. SLOPE CONSTRUCTION PERMITTED BY INTERGOVERNMENTAL AGREEMENT (IGA)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	267
STA. 71+88.82		TO STA. 76+00.00		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				
CONTRACT NO: 63522				

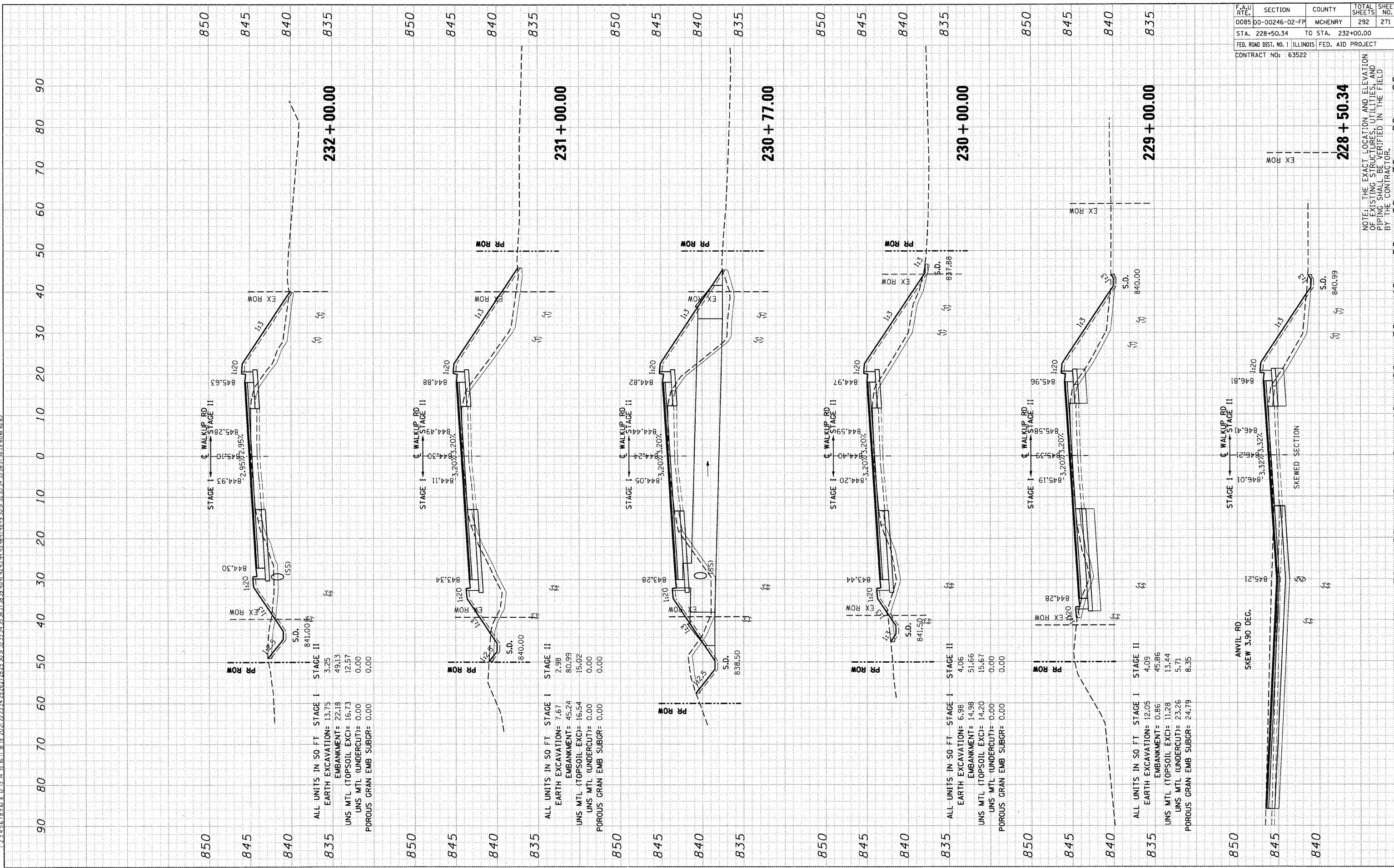
FINAL SURVEY	DATE
DATE	BY

ORIGINAL SURVEY	DATE
DATE	BY

ORIGINAL SURVEY NO. 1
 DATE 1/24/55
 BY 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

SURVEY NO. 2
 DATE 1/24/55
 BY 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

F.A.U. R/E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	271
STA. 228+50.34	TO STA. 232+00.00			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO: 63522				



232 + 00.00

231 + 00.00

230 + 77.00

230 + 00.00

229 + 00.00

228 + 50.34

ALL UNITS IN SQ FT
 STAGE I
 EARTH EXCAVATION= 13.75
 EMBANKMENT= 22.18
 UNS MTL (TOPSOIL EXC)= 16.73
 UNS MTL (UNDERCUT)= 0.00
 POROUS GRAN EMB SUBGR= 0.00

ALL UNITS IN SQ FT
 STAGE I
 EARTH EXCAVATION= 7.67
 EMBANKMENT= 45.24
 UNS MTL (TOPSOIL EXC)= 16.54
 UNS MTL (UNDERCUT)= 0.00
 POROUS GRAN EMB SUBGR= 0.00

ALL UNITS IN SQ FT
 STAGE I
 EARTH EXCAVATION= 6.98
 EMBANKMENT= 14.98
 UNS MTL (TOPSOIL EXC)= 14.20
 UNS MTL (UNDERCUT)= 0.00
 POROUS GRAN EMB SUBGR= 0.00

ALL UNITS IN SQ FT
 STAGE I
 EARTH EXCAVATION= 12.05
 EMBANKMENT= 0.86
 UNS MTL (TOPSOIL EXC)= 11.28
 UNS MTL (UNDERCUT)= 23.26
 POROUS GRAN EMB SUBGR= 24.79

ANVIL RD
 SKEW 3.90 DEG.

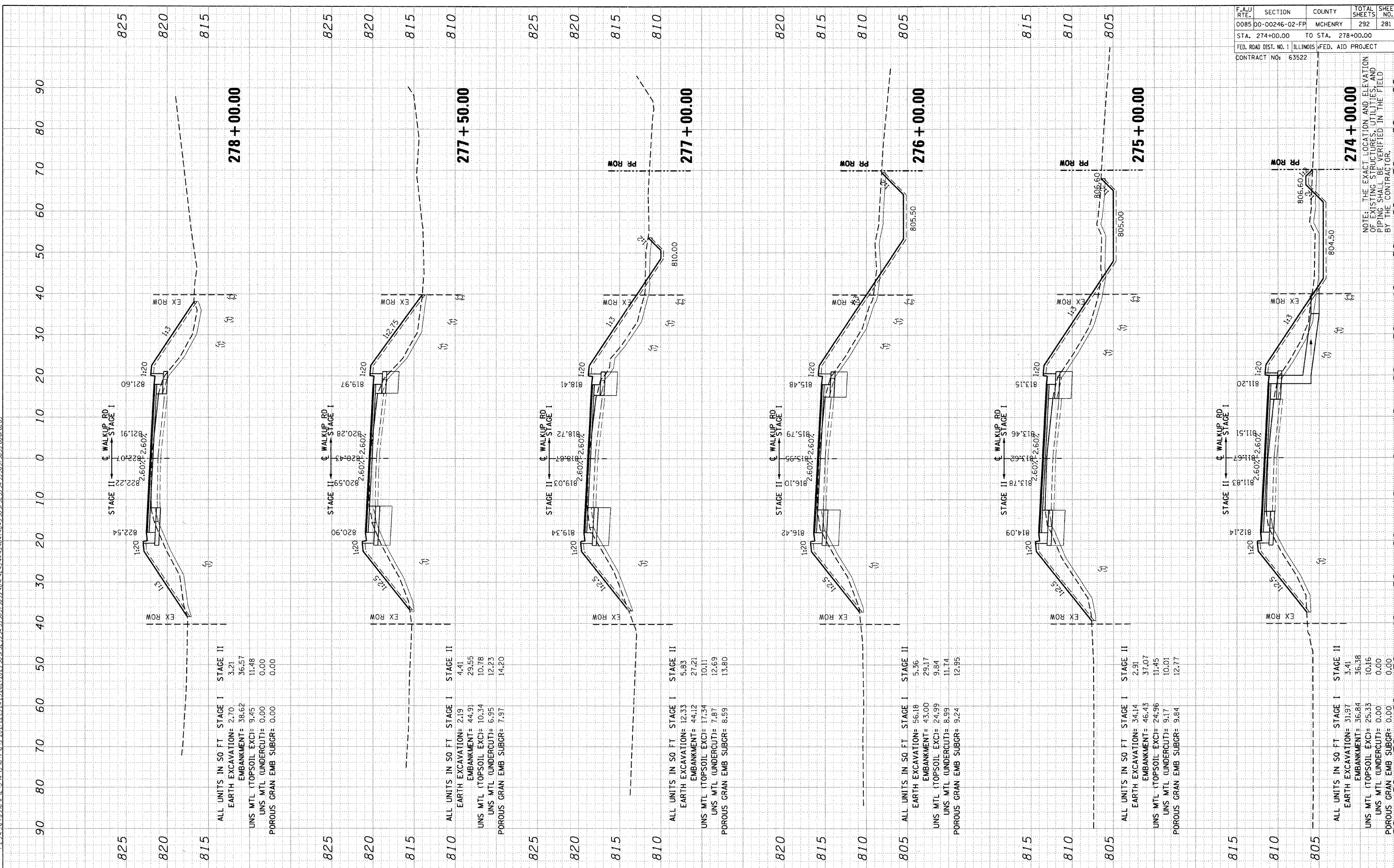
NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

Table with 3 columns: ORIGINAL SURVEY, SURVEY, DATE. Sub-tables for DRAWINGS, PLOTTED, TEMPLATE, AREAS, DESIGN, and DESIGNED.

Table with 3 columns: ORIGINAL SURVEY, SURVEY, DATE. Sub-tables for DRAWINGS, PLOTTED, TEMPLATE, AREAS, DESIGN, and DESIGNED.

Table with 3 columns: ORIGINAL SURVEY, SURVEY, DATE. Sub-tables for DRAWINGS, PLOTTED, TEMPLATE, AREAS, DESIGN, and DESIGNED.

Vertical text on the left side containing project details: \\\NW021022.F.DGN., STA. 274+00.00, CONTRACT NO.: 63522.



NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

Table with 5 columns: F.A.U. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 0085, 00-00246-02-FP, MCHENRY, 292, 281.

STA. 274+00.00 TO STA. 278+00.00

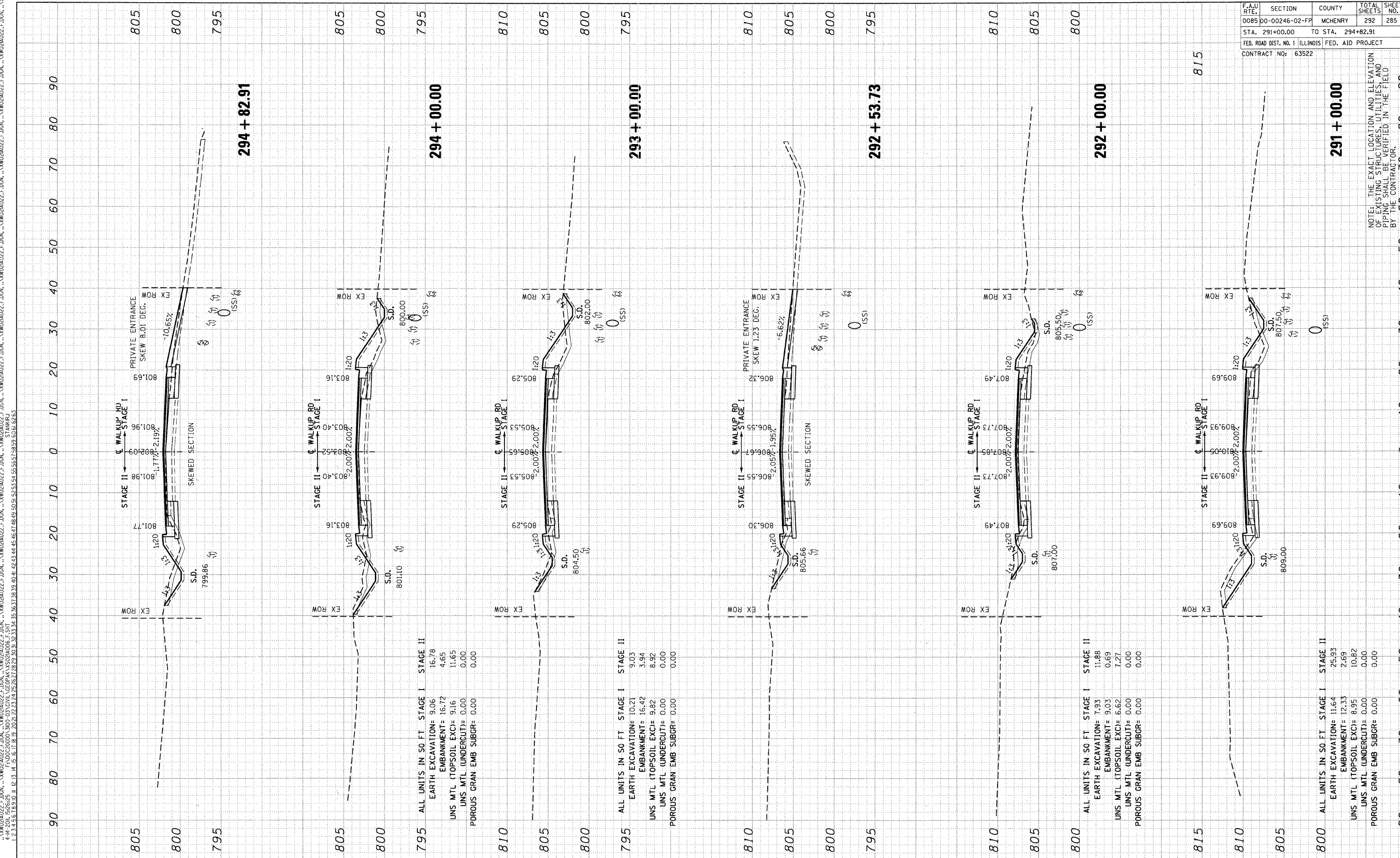
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CONTRACT NO.: 63522

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE AREAS		
NOTED		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE AREAS		
NOTED		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	285
STA. 291+00.00 TO STA. 294+82.91				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO: 63522				



294 + 82.91

294 + 00.00

293 + 00.00

292 + 53.73

292 + 00.00

291 + 00.00

ALL UNITS IN SQ FT

STAGE I	STAGE II
EARTH EXCAVATION= 9.06	16.78
EMBANKMENT= 16.72	4.65
UNS MTL (TOPSOIL EXC)= 9.16	11.65
UNS MTL (UNDERCUT)= 0.00	0.00
POROUS GRAN EMB SUBGR= 0.00	0.00

ALL UNITS IN SQ FT

STAGE I	STAGE II
EARTH EXCAVATION= 10.21	9.03
EMBANKMENT= 16.42	3.94
UNS MTL (TOPSOIL EXC)= 9.82	8.92
UNS MTL (UNDERCUT)= 0.00	0.00
POROUS GRAN EMB SUBGR= 0.00	0.00

ALL UNITS IN SQ FT

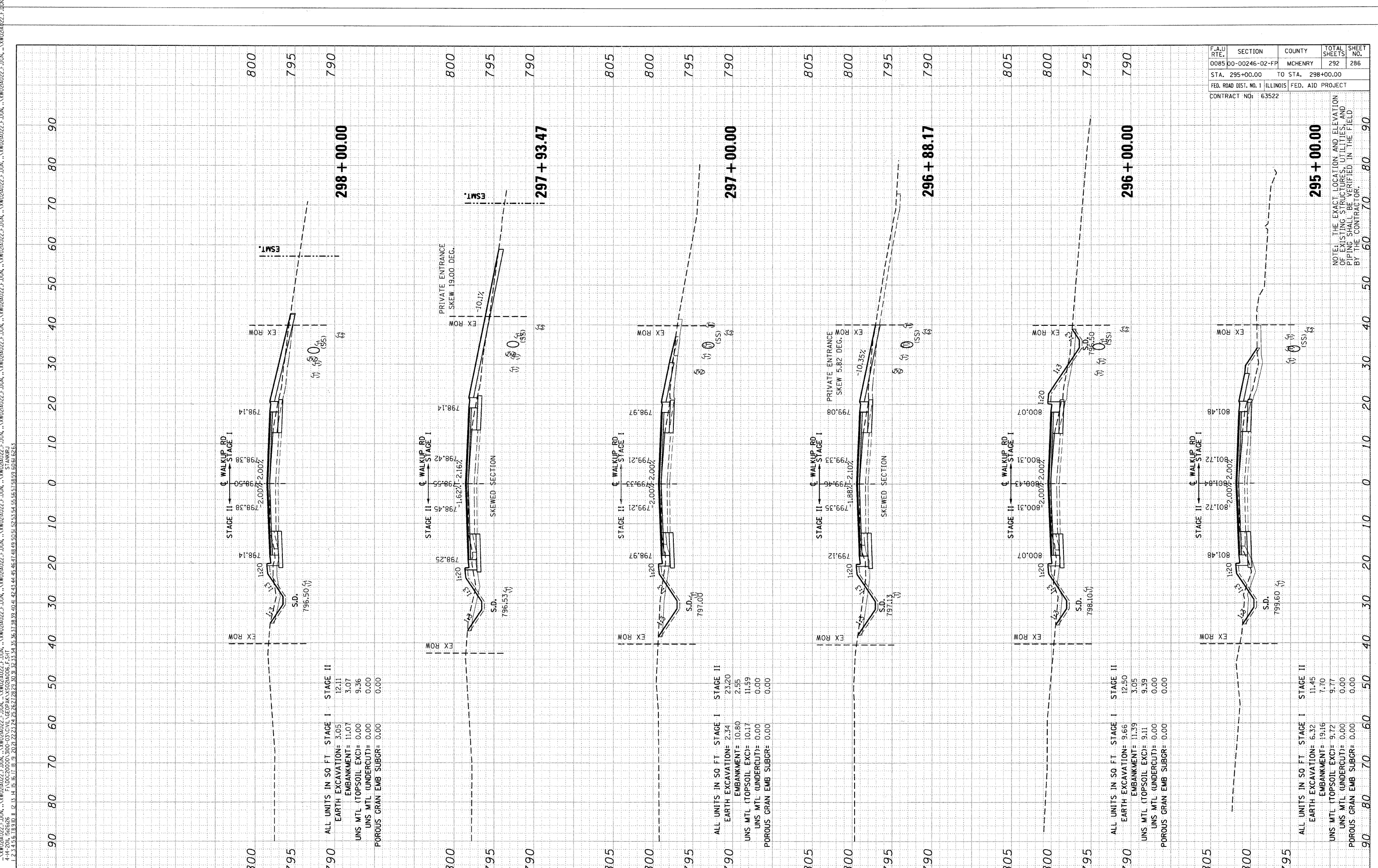
STAGE I	STAGE II
EARTH EXCAVATION= 7.93	11.88
EMBANKMENT= 9.03	0.69
UNS MTL (TOPSOIL EXC)= 6.62	7.27
UNS MTL (UNDERCUT)= 0.00	0.00
POROUS GRAN EMB SUBGR= 0.00	0.00

ALL UNITS IN SQ FT

STAGE I	STAGE II
EARTH EXCAVATION= 11.64	25.93
EMBANKMENT= 12.33	2.69
UNS MTL (TOPSOIL EXC)= 8.95	10.82
UNS MTL (UNDERCUT)= 0.00	0.00
POROUS GRAN EMB SUBGR= 0.00	0.00

PROPOSED CROSS-SECTIONS: WALKUP ROAD

ORIGINAL SURVEY SHEETED SURVEY BY DATE
 FINN SURVEY SHEETED SURVEY BY DATE
 NO. 100-03-CIVIL-GEOPAK-VS02-0406.F.SHT STANKIRJ
 4-14-2011 1626626
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	286
STA. 295+00.00	TO STA. 298+00.00			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO: 63522				

NOTE: THE EXACT LOCATION AND ELEVATION
 OF EXISTING STRUCTURES, UTILITIES, AND
 PIPING SHALL BE VERIFIED IN THE FIELD
 BY THE CONTRACTOR.

PROPOSED CROSS-SECTIONS: WALKUP ROAD

ORIGINAL SURVEY
NOTE BOOK NO. 1234567890
DATE BY

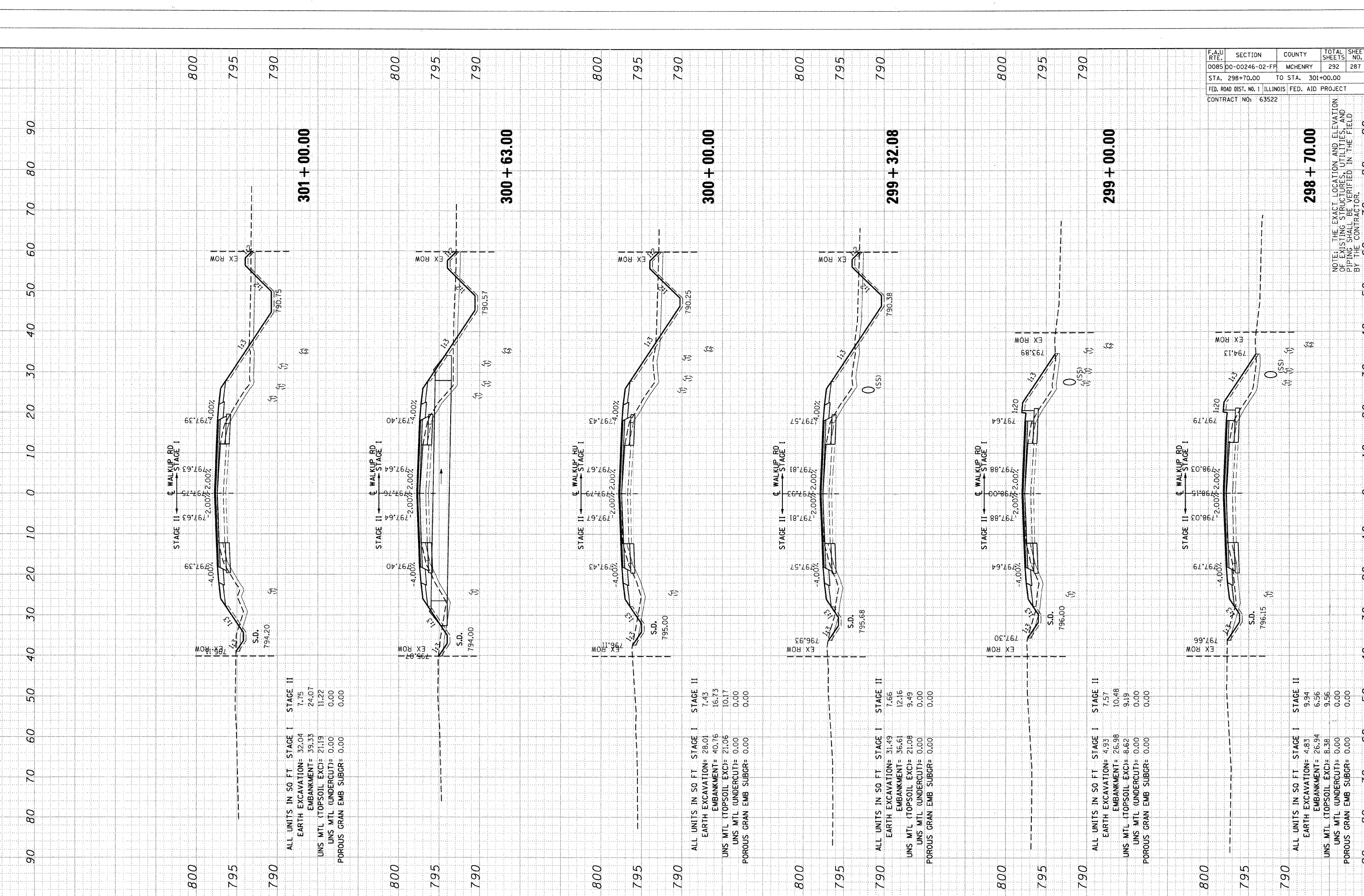
ORIGINAL SURVEY
NOTE BOOK NO. 1234567890
DATE BY

ORIGINAL SURVEY
NOTE BOOK NO. 1234567890
DATE BY

ORIGINAL SURVEY
NOTE BOOK NO. 1234567890
DATE BY

FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED BY DATE
NO. 1234567890
DATE BY

NO. 1234567890
DATE BY



ALL UNITS IN SQ FT. STAGE I STAGE II
EARTH EXCAVATION= 32.04 7.75
EMBANKMENT= 39.33 24.07
UNS MTL (TOPSOIL EXC)= 21.19 11.22
UNS MTL (UNDERCUT)= 0.00 0.00
POROUS GRAN EMB SUBGR= 0.00 0.00

ALL UNITS IN SQ FT. STAGE I STAGE II
EARTH EXCAVATION= 28.01 7.43
EMBANKMENT= 40.76 16.73
UNS MTL (TOPSOIL EXC)= 21.06 10.17
UNS MTL (UNDERCUT)= 0.00 0.00
POROUS GRAN EMB SUBGR= 0.00 0.00

ALL UNITS IN SQ FT. STAGE I STAGE II
EARTH EXCAVATION= 31.49 7.66
EMBANKMENT= 36.61 12.16
UNS MTL (TOPSOIL EXC)= 21.08 9.49
UNS MTL (UNDERCUT)= 0.00 0.00
POROUS GRAN EMB SUBGR= 0.00 0.00

ALL UNITS IN SQ FT. STAGE I STAGE II
EARTH EXCAVATION= 4.93 7.57
EMBANKMENT= 26.98 10.48
UNS MTL (TOPSOIL EXC)= 8.62 9.19
UNS MTL (UNDERCUT)= 0.00 0.00
POROUS GRAN EMB SUBGR= 0.00 0.00

ALL UNITS IN SQ FT. STAGE I STAGE II
EARTH EXCAVATION= 4.83 9.94
EMBANKMENT= 26.94 6.56
UNS MTL (TOPSOIL EXC)= 8.38 9.56
UNS MTL (UNDERCUT)= 0.00 0.00
POROUS GRAN EMB SUBGR= 0.00 0.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-PP	MCHENRY	292	287
STA. 298+70.00		TO STA. 301+00.00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO: 63522				

NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

PROPOSED CROSS-SECTIONS: WALKUP ROAD

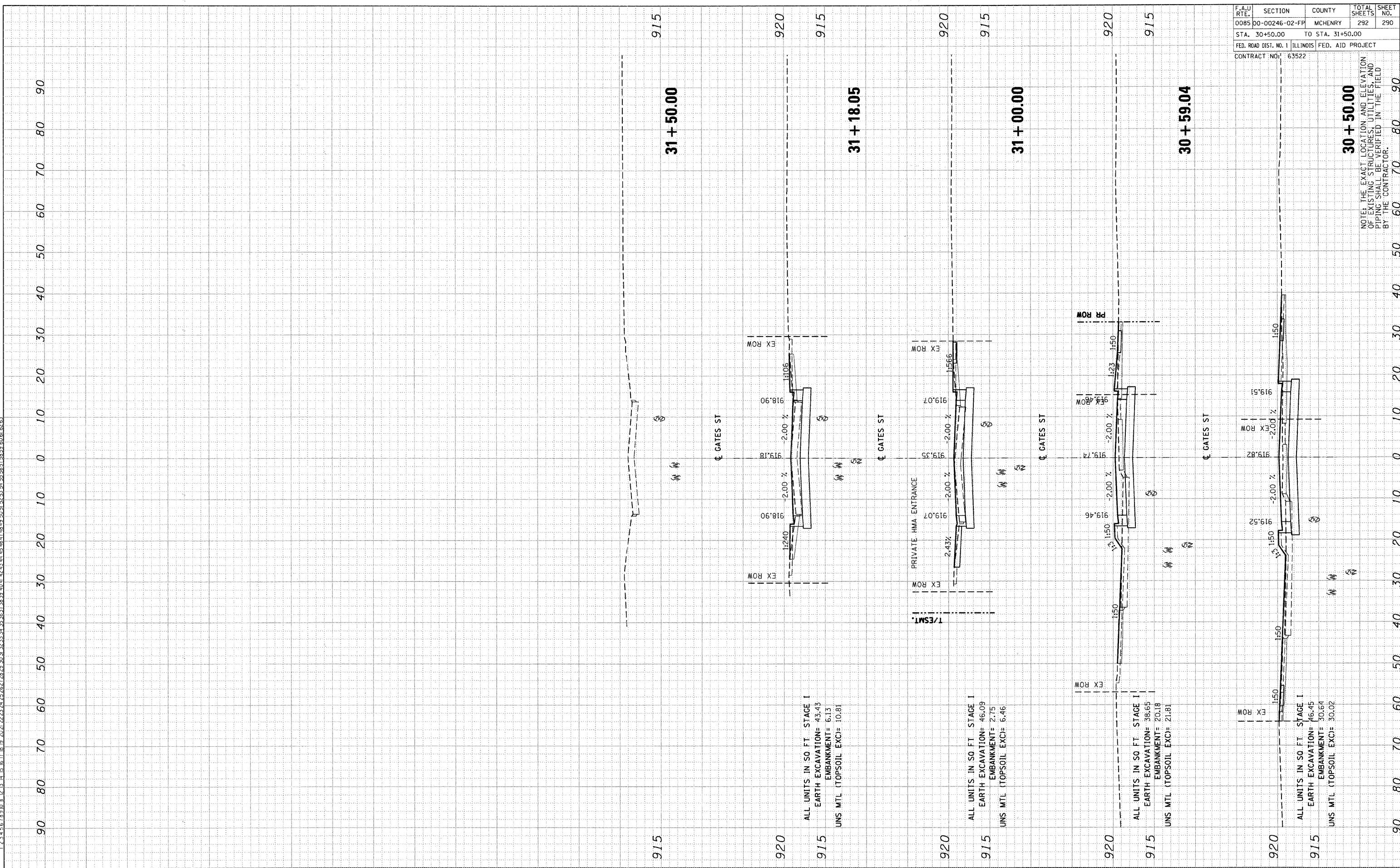
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	290
STA. 30+50.00		TO STA. 31+50.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63522				

NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

FINAL SURVEY	DATE
BY	
REVIEWED	
DATE	
BY	
REVIEWED	
DATE	
BY	
REVIEWED	
DATE	
BY	

ORIGINAL SURVEY	DATE
BY	
REVIEWED	
DATE	
BY	
REVIEWED	
DATE	
BY	
REVIEWED	
DATE	
BY	

STANWEL
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 841. 842. 843. 844. 845. 846. 847. 848. 849. 850. 851. 852. 853. 854. 855. 856. 857. 858. 859. 860. 861. 862. 863. 864. 865. 866. 867. 868. 869. 870. 871. 872. 873. 874. 875. 876. 877. 878. 879. 880. 881. 882. 883. 884. 885. 886. 887. 888. 889. 890. 891. 892. 893. 894. 895. 896. 897. 898. 899. 900. 901. 902. 903. 904. 905. 906. 907. 908. 909. 910. 911. 912. 913. 914. 915. 916. 917. 918. 919. 920. 921. 922. 923. 924. 925. 926. 927. 928. 929. 930. 931. 932. 933. 934. 935. 936. 937. 938. 939. 940. 941. 942. 943. 944. 945. 946. 947. 948. 949. 950. 951. 952. 953. 954. 955. 956. 957. 958. 959. 960. 961. 962. 963. 964. 965. 966. 967. 968. 969. 970. 971. 972. 973. 974. 975. 976. 977. 978. 979. 980. 981. 982. 983. 984. 985. 986. 987. 988. 989. 990. 991. 992. 993. 994. 995. 996. 997. 998. 999. 1000.



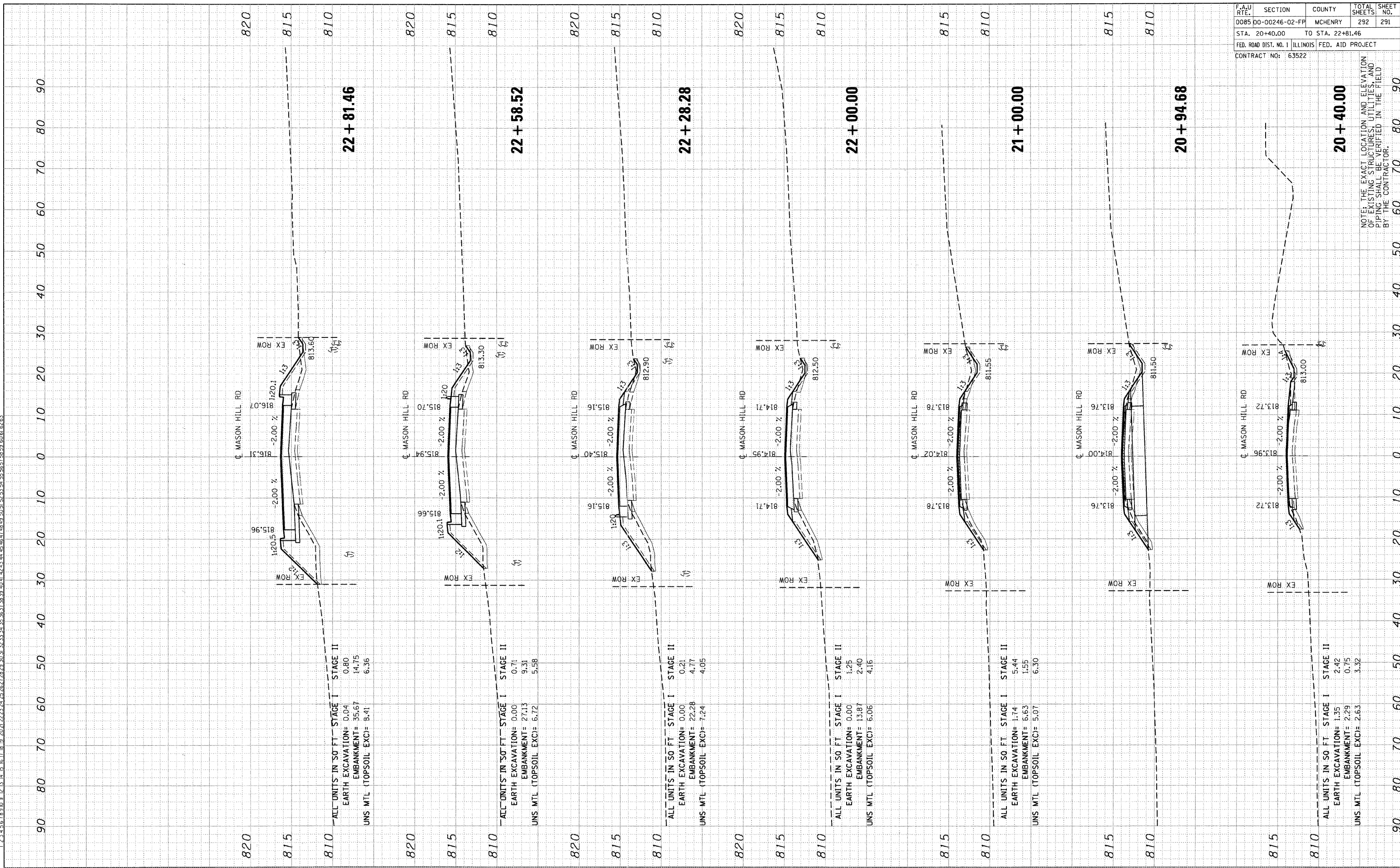
PROPOSED CROSS-SECTIONS: GATES STREET

| | | | | |
|-----------------------|----------------|---------------------------|--------------|-----------|
| F.A.U. RTEL | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 0085 | 00-00246-02-FP | MCHENRY | 292 | 291 |
| STA. 20+40.00 | | TO STA. 22+81.46 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT | | |
| CONTRACT NO: 63522 | | | | |

| | | | |
|---------------|----------|----|------|
| FINAL SURVEY | SURVEYED | BY | DATE |
| NOTE BOOK | TEMPLATE | | |
| AREAS CHECKED | | | |

| | | | |
|-----------------|----------|----|------|
| ORIGINAL SURVEY | SURVEYED | BY | DATE |
| NOTE BOOK | TEMPLATE | | |
| AREAS CHECKED | | | |

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NOTE: THE EXACT LOCATION AND ELEVATION OF EXISTING STRUCTURES, UTILITIES, AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.

PROPOSED CROSS-SECTIONS: MASON HILL RD

