7-31-09 Letting, Item 112

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BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

DESIGN DESIGNATION - COLLECTOR

DESIGN SPEED = 30 MPH

STA. 37+67 TO STA. 53+33

2009 ADT = 0 M.U. 0 % S.U. 0 % P.V. 0 %

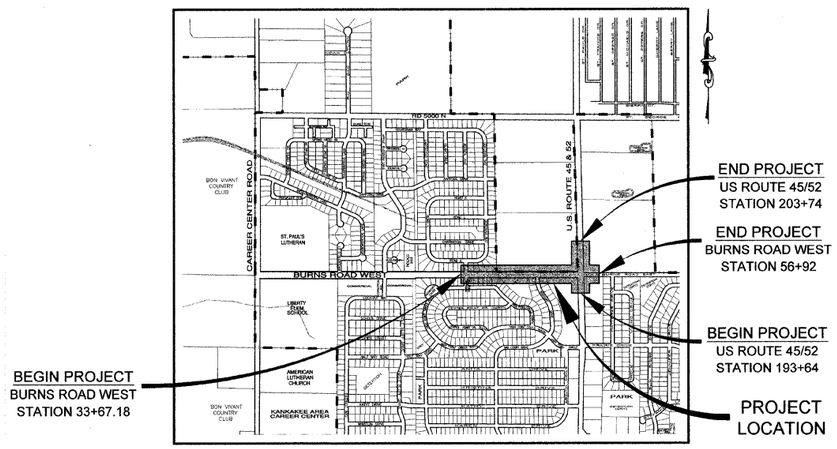
DESIGN 2029 ADT = 6600 M.U. 5 % S.U. 10 % P.V. 85 %

SEE SHEET 2 FOR PAVEMENT DESIGN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA)
VILLAGE OF BOURBONNAIS
FAU 6212 (BURNS ROAD WEST)
BURNING BUSH DRIVE TO US 45/52
SECTION 03-00058-00-FP
PROJECT NO. ARA-5092(004)
JOB NO. C-93-137 -09



LOCATION MAP
NOT TO SCALE

GROSS LENGTH OF IMPROVEMENT = 2,325 FEET = 0.44 MILES
NET LENGTH OF IMPROVEMENT = 2,325 FEET = 0.44 MILES

STANDARD SCALES

		HORIZ.	VERT.
BURNS ROAD WEST	PLAN	0 40 80	
	PROFILES	0 40 80	0 4 8
	CROSS SECTIONS	0 10 20	0 5 10

OTHERS AS NOTED IN PLANS

CALL J.U.L.I.E. BEFORE YOU DIG
(Joint Utility Locating Information For Excavators)
PH.# 1-800-892-0123

CONTRACT NO. 87414

LOCATION OF SECTION INDICATED THUS:

PREPARED IN ACCORDANCE
WITH THE POLICIES OF THE
LOCAL ROADS MANUAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 5/26, 20 09
Paul Schoos
VILLAGE PRESIDENT, VILLAGE OF BOURBONNAIS

PASSED June 2, 20 09
Kenneth R. Lacy
DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR BID
BASED ON LIMITED REVIEW June 2, 20 09
George F. Brunn Jr.
DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

WILLIAM B. ROSENHAN 062-038653 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

LIGHTING ENGINEER 5/1/09 DATE
062-038653 11/30/09
LICENSE# EXPIRATION DATE

STEVEN R. McBURNEY 062-058252 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

STEVEN R. McBURNEY P.E.# 062-058252 5-26-09 DATE
EXPIRATION DATE OF P.E. LICENSE: 11-30-09

REVISIONS

NO.	DATE	BY	GENERAL DESCRIPTION	SHEETS CHANGED
1	3/12/07	MRG	PER IDOT REVIEW	ALL
2	4/13/07	MRG	PER IDOT REVIEW	1-41
3	4/9/09	MRG	PHASING	ALL
4	5/8/09	MRG	PER IDOT REVIEW	1,3-6,13,15,16,23,24,28-33

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	1

CONTRACT NO. 87414

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

* BURNS ROAD WEST - FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

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Do not scale drawings. Use dimensions only.

Contractor shall be responsible for verifying all dimensions.

Information hereon and herein is confidential.

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

COVER SHEET

PROJECT: PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	1
CHECKED BY:	SRM		41

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GENERAL NOTES

THE WORK UNDER THIS CONTRACT CONSISTS OF THE FOLLOWING:

1. DATUM USED FOR SURVEY IS U.S.G.S.
2. ALL STATIONING IS ALONG CENTERLINE OF ROADWAY, EXCEPT AS OTHERWISE NOTED.
3. ACCESS TO ENTRANCES – ACCESS TO ENTRANCES SHALL BE MAINTAINED BY THE USE OF TEMPORARY SURFACE AGGREGATE IN ACCORDANCE WITH ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. HOWEVER THE COST OF FURNISHING, PLACING AND REMOVING THE TEMPORARY SURFACE AGGREGATE WILL BE PAID FOR AT THE CONTRACT PRICE PER TON FOR AGGREGATE SURFACE COURSE TYPE B AND NO OTHER COMPENSATION WILL BE ALLOWED, AN ESTIMATED QUANTITY OF 400 TONS OF AGGREGATE SURFACE COURSE, TYPE B HAS BEEN INCLUDED IN THE PLANS FOR ACCESS PURPOSES.
4. THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATION FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
5. EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
6. ALL EXCAVATION UNDER PAVEMENT, SIDEWALK, AND CURB & GUTTER SHALL BE BACKFILLED AND COMPACTED WITH MATERIAL MEETING THE REQUIREMENTS OF SECTION 209. SEPARATE PAYMENT FOR TRENCH BACKFILL SHALL BE MADE ONLY WHEN SPECIFIED IN THE PLANS.
7. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.
8. TEMPORARY MARKING TAPE SHALL BE USED FOR ALL TEMPORARY PAVEMENT MARKING ON FINAL SURFACE.
9. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR WILL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
10. ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 2 INCHES, UNLESS OTHERWISE SPECIFIED IN A DETAIL IN THE PLANS.
11. THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE.
12. ALL REQUIRED SAW CUTTING SHALL BE INCIDENTAL TO THE REMOVAL PAY ITEM INVOLVED.
13. FOR NEW CONSTRUCTION, PLACE SIDEWALK RAMPS FOR THE HANDICAPPED (STD 2356) AT ALL LOCATIONS WHERE PROPOSED SIDEWALK ABUTS CURB AT STREET ENTRANCES.
14. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER, THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
15. ABANDONED UNDERGROUND UTILITY ITEMS WHICH CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
16. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.
18. ALL WATER MAINS SHALL BE PROTECTED FROM CONTAMINATION. STATE CODE SECTION 653.119 EXPLAINS THE METHODS OF PROTECTION AND WHEN THEY ARE REQUIRED.
19. PROTECTIVE COAT SHALL BE APPLIED TO THE SURFACES OF NEW CONCRETE ACCORDING TO ARTICLES 420.21 AND/OR 503.21 OF THE STANDARD SPECIFICATIONS.
20. THERMOPLASTIC PAVEMENT MARKINGS AND PAINT STRIPING QUANTITIES ARE APPROXIMATE ONLY. PAYMENT WILL BE MADE FOR ACTUAL QUANTITIES USED AS MEASURED IN THE FIELD.
21. THE FOLLOWING UTILITY COMPANIES HAVE UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. ADJUSTMENT OF UTILITY LOCATIONS WILL BE MADE BY THE OWNER, UNLESS OTHERWISE NOTED ON THE PLANS.

LEGEND

- IRON ROD RECOVERED
- RIGHT-OF-WAY MARKER
- IRON PIPE RECOVERED
- PK NAIL RECOVERED
- EXIST. MAILBOX
- EXIST. FLAG POLE
- EXIST. GUY WIRE
- EXIST. POWER POLE
- EXIST. STREET LIGHT
- EXIST. LIGHT POLE
- EXIST. TELEPHONE PEDESTAL
- EXIST. GAS VALVE
- EXIST. FIRE HYDRANT
- EXIST. WATER VALVE
- EXIST. BUFFALO BOX
- EXIST. WATER METER
- EXIST. FLARED END SECTION
- EXIST. INLET
- EXIST. MANHOLE
- EXIST. STOP SIGN
- EXIST. SIGN
- EXIST. DITCH FLOW LINE
- GRADE
- EXIST. SWALE FLOW LINE
- TREE/BUSH
- EXIST. TREE STUMP, SIZE
- EXIST. CULVERT
- W — EXIST. WATER
- EXIST. STORM SEWER
- EXIST. SANITARY SEWER
- EXIST. FENCE
- EXIST. EDGE OF PAVEMENT & SIDEWALK
- EXIST. CURB & GUTTER
- RIGHT OF WAY
- (680.70) NEW SPOT ELEVATION
- NEW STREET LIGHT
- NEW FIRE HYDRANT
- NEW WATER VALVE
- NEW MANHOLE
- NEW INLET
- NEW FLARED END SECTION
- NEW STORM SEWER
- NEW EASEMENT
- NEW AGGREGATE
- NEW CURB & GUTTER
- SURFACE REMOVAL
- DETECTABLE WARNINGS FOR CURB RAMPS ON SIDEWALKS
- REMOVE OBJECT

PAVEMENT DESIGN

BURNS ROAD
STA. 33+67 to STA. 53+33

Class II, 2-lane pavement
D.P. - 20 years
Design Traffic
Existing ADT: 0 1% growth
Proposed ADT: 6600
PV (85%): 5610 SU (10%): 660 MU (5%): 330
73,280 pound load limit
Critical subgrade Eri: 3ksi

$$T.F. = D.P. \frac{(0.073PV+44.53SU+156.403MU)}{1{,}000{,}000}$$

T.F.= 1.628
Subgrade support rating: fair
PG Binder grade for slow traffic: PG 64-22
mixture temperature: 78.5
Eac: 580
design strain: 90
Pavement thickness required: 10.25"

USE: 10.25"

UTILITY	STATUS OF RELOCATION	DATE	
POWER COMMONWEALTH EDISON CO. 2500 SOUTH GOVERNORS HIGHWAY UNIVERSITY PARK, IL 60466	PRELIMINARY PLANS SET FINAL PLAN SET	1/27/06 4/13/07	RELOCATION PRIOR TO CONSTRUCTION
TELEPHONE AT&T 65 WEST WEBSTER JOLIET, IL 60431	PRELIMINARY PLANS SET FINAL PLAN SET	1/27/06 4/13/07	RELOCATION PRIOR TO CONSTRUCTION
CABLE TV COMCAST 17700 HOFFMAN WAY HOMEWOOD, IL 60430	PRELIMINARY PLANS SET FINAL PLAN SET	1/27/06 4/13/07	RELOCATION PRIOR TO CONSTRUCTION
GAS NORTHERN ILLINOIS GAS CO. 1844 FERRY ROAD NAPERVILLE, IL 60563	PRELIMINARY PLANS SET FINAL PLAN SET	1/27/06 4/13/07	RELOCATION PRIOR TO/ DURING CONSTRUCTION
WATER AQUA ILLINOIS 1000 SOUTH SCHUYLER AVE. KANKAKEE, IL 60901	PRELIMINARY PLANS SET FINAL PLAN SET	1/27/06 4/13/07	RELOCATION PRIOR TO CONSTRUCTION

	HMA Binder Burns Road	HMA Level Binder	HMA Surface Burns Road	HMA Surface US 45/52	HMA Base Course	HMA Shoulder
PG Grade	PG58-22	SBS/ PG70-22	PG64-22	SBS/ PG70-22	PG58-22	PG58-22
Max % RAP Allowable**	25%	10%	15%	10%	25%	40%
Design Air Voids	4.0% @ N50	4.0% @ N70	4.0% @ N50	4.0% @ N70	4.0% @ N50	2.0% @ N50
Mixture Composition	IL 19.0	IL 9.5	IL 12.5 or IL 9.5	IL 12.5 or IL 9.5	IL 19.0	BAM
Friction Aggregate	-	-	Mixture D	Mixture D	-	-
Density Test Method	Correlation	Satisfaction of Engineer	Correlation	Cores/ Nuclear	***	*

* Material shall be compacted to 93.0-97.4 percent of the maximum theoretical density, except that when placed as first lift on an unimproved subgrade the minimum percent compaction shall be 92.0 percent. The maximum theoretical density shall be determined from the moving average as specified in the QC/QA Specification.
** If RAP option is selected, the asphalt cement grade may need to be adjusted. This will be determined by the Engineer.
*** See standard specifications adopted January 1, 2007.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	2

CONTRACT NO. 87414
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS AND LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

COVER SHEET

PROJECT: PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	2
CHECKED BY:	SRM		41

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SUMMARY OF QUANTITIES — Fund Code I000

	Pay Item Number	Item	Quantity	Unit
	20100110	Tree Removal (6-15 Units Diameter)	38	UNIT
	20100210	Tree Removal (Over 15 Units Diameter)	88	UNIT
	20200100	Earth Excavation	7,484	CU YD
	20201200	Removal and Disposal of Unsuitable Material	1,554	CU YD
*	20800250	Trench Backfill, Special	232	CU YD
	21001000	Geotechnical Fabric for Ground Stabilization	12,443	SQ YD
	25000210	Seeding, Class 2A	4.60	ACRE
	25100125	Mulch, Method 3	4.60	ACRE
*	28000250	Temporary Erosion Control Seeding	27	POUND
	28000400	Perimeter Erosion Barrier	2,565	FOOT
	28000500	Inlet and Pipe Protection	49	EACH
	31101810	Sub-Base Granular Material, Type B 12"	12,443	SQ YD
	35101600	Aggregate Base Course, Type B 4"	337	SQ YD
	35501308	Hot-Mix Asphalt Base Course, 6"	10,154	SQ YD
	40600100	Bituminous Materials (Prime Coat)	422	GALLON
	40600300	Aggregate (Prime Coat)	8.4	TON
	40600837	Polymerized Leveling Binder (Machine Method), N70	281	TON
	40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	1,458	TON
	40603335	Hot-Mix Asphalt Surface Course, Mix "D", N50	1,020	TON
	40603540	Polymerized Hot-Mix Asphalt Surface Course, Mix "D", N70	421	TON
	42300200	Portland Cement Concrete Diveway Pavement, 6 inch	28	SQ YD
	42400100	Portland Cement Concrete Sidewalk 4 inch	19,995	SQ FT
	42400800	Detectable Warnings	144	SQ FT
	44000159	Hot-Mix Asphalt Surface Removal, 2 1/2"	4602	SQ YD
	44000500	Combination Curb and Gutter Removal	441	FOOT
*	44300900	Strip Reflective Crack Control Treatment System A	886	FOOT
	48100500	Aggregate shoulders, Type A 6"	156	SQ YD
	48203029	Hot-Mix Asphalt Shoulders, 8"	306	SQ YD
	54213660	Precast Reinforced Concrete Flared End Sections 15"	2	EACH
	54214515	Precast Reinforced Concrete Flared End Sections, Equivalent Round-Size 30"	1	EACH
	54214527	Precast Reinforced Concrete Flared End Sections, Equivalent Round-Size 42"	1	EACH
*	54248150	Grating for Concrete Flared End Section Equivalent Round-Size 30"	1	EACH
	550A0050	Storm Sewers, Class A, Type 1 12"	878	FOOT
	550A0070	Storm Sewers, Class A, Type 1 15"	363	FOOT
	550A0090	Storm Sewers, Class A, Type 1 18"	579	FOOT
	550A0120	Storm Sewers, Class A, Type 1 24"	345	FOOT
	550A0140	Storm Sewers, Class A, Type 1 30"	16	FOOT
	550A0160	Storm Sewers, Class A, Type 1 36"	215	FOOT
	550A0180	Storm Sewers, Class A, Type 1 42"	106	FOOT
	550A0410	Storm Sewers, Class A, Type 2 24"	435	FOOT
	55034500	Storm Sewers, Type 1, Reinforced Concrete Elliptical Pipe, Span 38, Rise 24	196	FOOT
	55034700	Storm Sewers, Type 1, Reinforced Concrete Elliptical Pipe, Span 53, Rise 34	95	FOOT
	55100500	Storm Sewer Removal 12"	44	FOOT
	55100900	Storm Sewer Removal 18"	42	FOOT
	55101200	Storm Sewer Removal 24"	49	FOOT
	55101400	Storm Sewer Removal 30"	36	FOOT
	60218400	Manholes, Type A, 4'-Diameter, Type 1 Frame, Closed Lid	11	EACH
	60221100	Manholes, Type A, 5'-Diameter, Type 1 Frame, Closed Lid	3	EACH
	60223800	Manholes, Type A, 6'-Diameter, Type 1 Frame, Closed Lid	2	EACH
	60224446	Manholes, Type A, 7'-Diameter, Type 1 Frame, Closed Lid	2	EACH
	60224447	Manholes, Type A, 7'-Diameter, Type 3 Frame and Grate	2	EACH
	60235700	Inlets, Type A, Type 3 Frame and Grate	25	EACH
	60240220	Inlets, Type B, Type 3 Frame and Grate	19	EACH
	60255500	Manholes to be Adjusted	6	EACH
	60266600	Valve Boxes to be Adjusted	3	EACH
	60500060	Removing Inlets	2	EACH
	60605000	Combination Concrete Curb and Gutter, Type B-6.24	4,677	FOOT
	60609200	Combination Concrete Curb and Gutter, Type M-6.12	138	FOOT
	60609800	Combination Concrete Curb and Gutter, Type M-6.18	1,888	FOOT
	67100100	Mobilization	1.00	L SUM
*	70101700	Traffic Control and Protection	1.00	L SUM
*	70106800	Changeable Message Sign	2	CAL MO
	70300220	Temporary Pavement Marking - Line 4"	500	FOOT
	72000100	Sign Panel - Type 1	30.50	SQ FT
	72900110	Metal Post - Type A	4	EACH
△	78000100	Thermoplastic Pavement Marking - Letters and Symbols	573.4	SQ FT

* See Special Provisions
△ Specialty Item

SUMMARY OF QUANTITIES — Fund Code I000

	Pay Item Number	Item	Quantity	Unit
△	78000200	Thermoplastic Pavement Marking - Line 4"	6,091	FOOT
△	78000400	Thermoplastic Pavement Marking - Line 6"	1,114	FOOT
△	78000500	Thermoplastic Pavement Marking - Line 8"	2,108	FOOT
△	78000600	Thermoplastic Pavement Marking - Line 12"	1,290	FOOT
△	78000650	Thermoplastic Pavement Marking - Line 24"	194	FOOT
△	81012300	Conduit in Trench, 1" Dia., PVC	741	FOOT
△	81012600	Conduit in Trench, 2" Dia., PVC	7,204	FOOT
△	81012700	Conduit in Trench, 2 1/2" Dia., PVC	86	FOOT
△	81012800	Conduit in Trench, 3" Dia., PVC	206	FOOT
△	81013100	Conduit in Trench, 5" Dia., PVC	12	FOOT
△	81021330	Conduit Pushed, 2" Dia., PVC	139	FOOT
△	81021370	Conduit Pushed, 4" Dia., PVC	229	FOOT
△	81400700	Handhole, Portland Cement Concrete	10	EACH
△	81400720	Double Handhole, Portland Cement Concrete	2	EACH
△	81603025	Unit Duct, 600V, 2-1C No. 4, 1/C No. 4 Ground, (XLP-Type USE) 1" Dia. Polyethylene	820	FOOT
△	81702410	Electric Cable in Conduit, 600V (XLP-Type USE) 3-1C No. 4	3,236	FOOT
△	81900200	Trench and Backfill for Electrical Work	8,537	FOOT
△	82102150	Luminaire, Sodium Vapor, Horizontal Mount, 150 Watt	20	EACH
△	82102250	Luminaire, Sodium Vapor, Horizontal Mount, 250 Watt	6	EACH
△	82102400	Luminaire, Sodium Vapor, Horizontal Mount, 400 Watt	4	EACH
△	83600200	Light Pole Foundation, 24" Diameter	110	FOOT
△	83800505	Breakaway Device, Coupling, with Aluminum Skirt	80	EACH
△*	85700305	Full-Actuated Controller and Type V Cabinet, Special	1	EACH
△	86000100	Master Controller	1	EACH
△	86200300	Uninterruptable Power Supply, Extended	1	EACH
△	86400100	Transceiver - Fiber Optic	3	EACH
△	87301215	Electric Cable in Conduit, Signal No. 14 2C	1,676	FOOT
△	87301225	Electric Cable in Conduit, Signal No. 14 3C	2,208	FOOT
△	87301245	Electric Cable in Conduit, Signal No. 14 5C	1,078	FOOT
△	87301255	Electric Cable in Conduit, Signal No. 14 7C	2,286	FOOT
△	87301305	Electric Cable in Conduit, Lead-In, No. 14 1 Pair	3,169	FOOT
△	87301805	Electric Cable in Conduit, Service, No. 6 2C	44	FOOT
△	87502500	Traffic Signal Post, Galvanized Steel 16 FT.	3	EACH
△	87702940	Steel Combination Mast Arm Assembly and Pole 42 FT.	1	EACH
△	87703000	Steel Combination Mast Arm Assembly and Pole 55 FT.	3	EACH
△*	87800110	Concrete Foundation, Type A (Special)	12	FOOT
△*	87800150	Concrete Foundation, Type C	4	FOOT
△	87900200	Drill Existing Handhole	2	EACH
△	88040070	Signal Head, Polycarbonate, LED, 1-Face, 3-Section, Bracket Mounted	1	EACH
△	88040090	Signal Head, Polycarbonate, LED, 1-Face, 3-Section, Mast Arm Mounted	4	EACH
△	88040150	Signal Head, Polycarbonate, LED, 1-Face, 5-Section, Bracket Mounted	6	EACH
△	88040160	Signal Head, Polycarbonate, LED, 1-Face, 5-Section, Mast Arm Mounted	6	EACH
△	88102810	Pedestrian Signal Head, Polycarbonate, LED, 1-Face, Bracket Mounted	8	EACH
△	88200410	Traffic Signal Backplate, Louvered, Formed Plastic	17	EACH
△	88500100	Inductive Loop Detector	15	EACH
△	88600100	Detector Loop, Type I	2,194	FOOT
△	88700200	Light Detector	4	EACH
△	88700300	Light Detector Amplifier	1	EACH
△	88800100	Pedestrian Push-Button	8	EACH
	Z0002750	Barricades, Type III	5	EACH
+ *	Z0076600	Trainees	1,000	HOUR
△*	XX002856	Re-Optimize Traffic Signal System	1	L SUM
△*	XX005099	Lighting Controller, CB-RCS, 200AMP-240 Volt	2	EACH
△*	X0326330	Electric Cable in Conduit, No. 20 3/C Twisted Shield	336	FOOT
△*	XX006229	Concrete Foundation, Type E 36-Inch Diameter, Special	60	FOOT
*	XX172700	Manholes, Type A, 8'-Diameter, Type 1 Frame, Closed Lid	1	EACH
*	X0322671	Stabilized Construction Entrance	125	SQ YD
△*	X0322925	Electric Cable in Conduit, Tracer, No. 14 1C	6,084	FOOT
△*	X8050010	Service Installation - Ground Mounted	2	EACH
△*	X8710022	Fiber Optic Cable in Conduit, No. 62.5/125, 2-MM12F & SM12F	6,084	FOOT
△*	X8730027	Electric Cable in Conduit, Grounding, No. 6 1C	527	FOOT
△*	XX008089	Light Pole, Aluminum, 33 FT. M.H., 10 FT. Truss Arm	14	EACH
△*	XX008090	Light Pole, Aluminum, 33 FT. M.H., 10 FT. Truss Arm - Twin	6	EACH
△*	XX008091	Illuminated Sign, LED Mast Arm Mounted	50.0	SQ FT
*	XX008092	Concrete Storm Sewer Plug, 15"	1	EACH

* See Special Provisions
△ Specialty Item
+ Y080

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	3

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
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2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

SUMMARY OF QUANTITIES

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	3
CHECKED BY:	SRM		41

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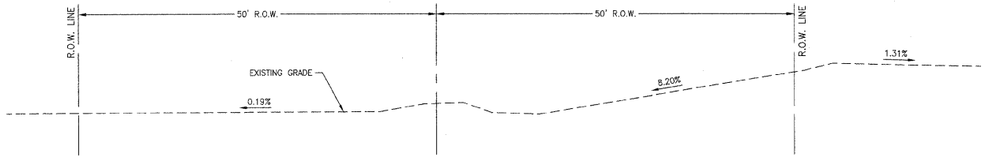
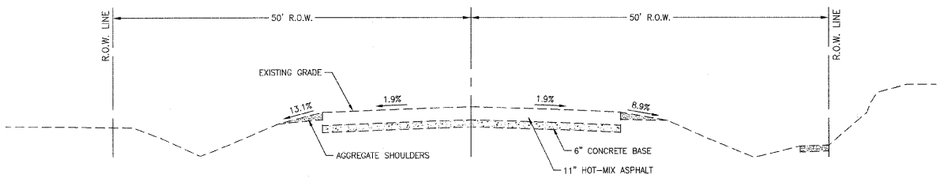
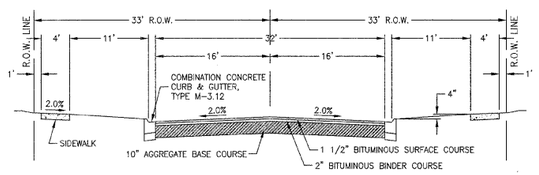
TYPICAL EXISTING ROADWAY CROSS SECTIONS



BURNS ROAD WEST - STA. 33+67 TO STA. 53+33.50
NOT TO SCALE

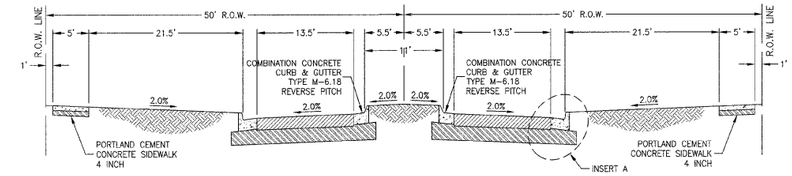


US ROUTE 45/52 - STA. 193+64 TO STA. 203+74
NOT TO SCALE



EXISTING SIDE STREETS TYPICAL PAVEMENT SECTION
NOT TO SCALE

TYPICAL PROPOSED ROADWAY CROSS SECTIONS



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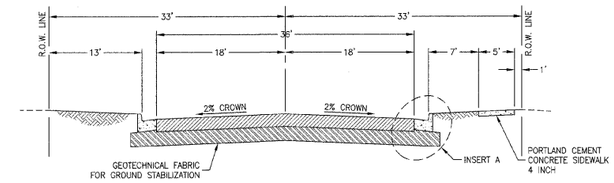

BURNS ROAD EAST - STA. 53+33.50 TO STA. 55+90
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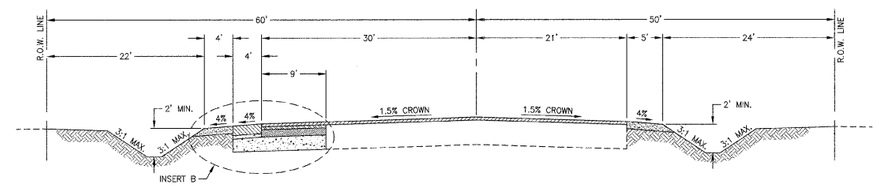

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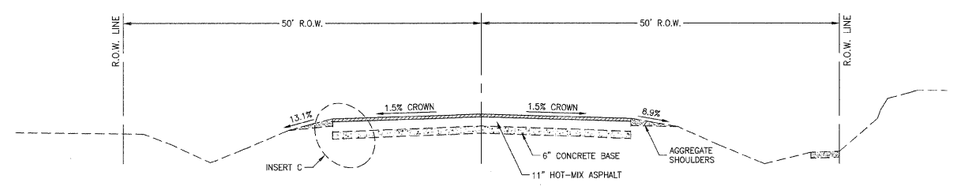

US ROUTE 45/52 - STA. 193+64 TO STA. 203+00
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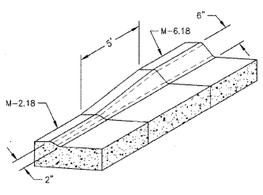

TYPICAL TRANSITION FOR COMBINATION CONCRETE CURB & GUTTER, TYPE M
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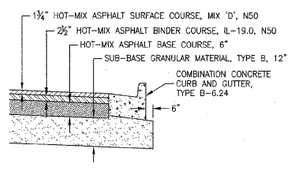

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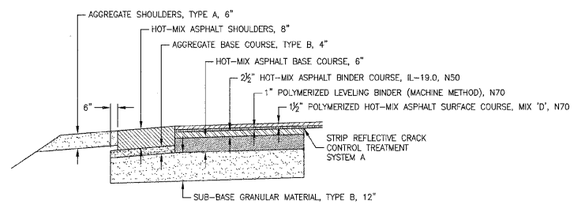

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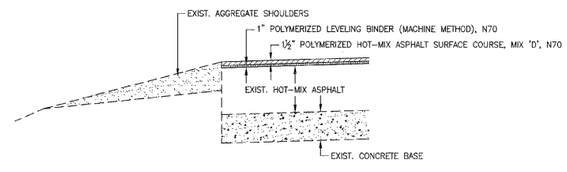

INSERT C
NOT TO SCALE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	4

CONTRACT NO. 87414

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

* BURNS ROAD WEST - FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
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TYPICAL ROADWAY CROSS SECTIONS

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	4
CHECKED BY:	SRM		41

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EROSION CONTROL SCHEDULE

LOCATION	TEMP. EROSION CONTROL SEEDING (POUND)	PERIMETER EROSION BARRIER (FOOT)	INLET AND PIPE PROTECTION (EACH)	STABILIZED CONSTRUCTION ENTRANCE (SQ YD)
STA 33+60 TO 52+75 LT		1915		
STA 33+67.18 TO 52+73	27			
STA 34+00			4	
STA 34+48 RT			2	
STA 36+45			4	
STA 38+20			4	
STA 39+54			4	
STA 40+60			4	
STA 41+90			4	
STA 43+20			4	
STA 44+40			4	
STA 48+75			4	
STA 50+55			4	
STA 51+70			2	
STA 53+00				125
STA 54+30 TO 57+00 LT		270		
STA 54+55			2	
STA 197+74 LT			1	
STA 198+00 RT			1	
STA 200+20 TO 204+00 LT		380		
STA 202+70 RT			1	
TOTAL	27	2565	49	125

TRENCH BACKFILL SCHEDULE

LOCATION	TRENCH BACKFILL SPECIAL (CU YD)	
STA 34+00	10	BURNS
STA 34+14 TO 34+82 - 33 RT	13	BURNING BUSH
STA 34+31 TO 34+82 - 50 RT	8	BURNING BUSH
STA 36+45	9	BURNS
STA 38+20	9	BURNS
STA 39+54	33	BURNS
STA 39+54 - 47 LT	10	SIDEWALK
STA 40+60	9	BURNS
STA 41+90	9	BURNS
STA 42+75 - 47 RT	3	SIDEWALK
STA 43+20	9	BURNS
STA 44+40	9	BURNS
STA 46+43 TO 47+11 - 33 RT	44	MIDCOURT
STA 48+75	9	BURNS
STA 50+55	12	BURNS
STA 51+70	9	BURNS
STA 52+60 RT	2	SIDEWALK
STA 53+74	16	BURNS
STA 53+91 RT	3	SIDEWALK
STA 54+55	6	BURNS
TOTAL	232	

REMOVALS SCHEDULE

LOCATION	HOT-MIX ASPHALT SURFACE REMOVAL 2 1/2" (SQ YD)	COMBINATION CURB & GUTTER REMOVAL (FOOT)	STORM SEWER REMOVAL				ROMOVE INLETS (EACH)
			12" (FOOT)	18" (FOOT)	24" (FOOT)	30" (FOOT)	
STA 34+47 RT		40					
STA 42+75 RT						6	
STA 46+78 RT		14					
STA 52+98 LT				42			
STA 53+82 TO 54+02 RT						30	
STA 53+82					49		
STA 54+47 TO 55+90 RT		143					
STA 54+48 TO 56+92 LT		244					
STA 55+21			44				2
STA 193+64 TO 203+74	4602						
TOTAL	4602	441	44	42	49	36	2

STRIP REFLECTIVE CRACK CONTROL SCHEDULE

LOCATION	STRIP REFLECTIVE CRACK CONTROL TREATMENT SYSTEM A (FOOT)
STA 197+16 TO 203+74 LT	658
STA 198+00 TO 200+28 RT	228
TOTAL	886

TURF ESTABLISHMENT SCHEDULE

LOCATION	SEEDING CLASS 2A (ACRE)	MULCH METHOD 3 (ACRE)
STA 33+67.18 TO 52+73	1.95	1.95
STA 53+83 TO 55+90	0.15	0.15
STA 177+69 TO 199+58	1.00	1.00
STA 197+16 TO 198+58	0.20	0.20
STA 199+58 TO 203+74	0.45	0.45
STA 203+74 TO 221+68	0.85	0.85
TOTAL	4.60	4.60

EARTH EXCAVATION SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EMBANKMENT (CU YD)	WASTE (CU YD)	
STA 33+67.18 TO 53+12	6,232	1,554	2,648	2,922	WEST BURNS
STA 53+52 TO 56+92	1,105	0	78	1,008	EAST BURNS
STA 200+00 TO 204+00	147	0	305	-234	US 45/52
TOTAL	7,484	1,554	3,031	3,696	

SIGNS

LOCATION	SIGN PANEL TYPE 1 (SQ FT)	METAL POST TYPE A (EACH)	BARRICADES TYPE III (EACH)	
STA 33+62			3	
STA 34+50 - 50 LT			2	
STA 34+69 - 53 RT	6.25	1		STOP SIGN (R1-1) (30"x30")
STA 38+62 - 28 LT	9	1		ROAD CLOSED 500 FT (W20-3) (36"x36")
STA 43+62 - 28 LT	9	1		ROAD CLOSED AHEAD (W20-3) (36"x36")
STA 46+98 - 53 RT	6.25	1		STOP SIGN (R1-1) (30"x30")
TOTAL	30.50	4	5	

TREES SCHEDULE

LOCATION	REMOVAL	
	(6 TO 15 UNITS) (UNITS)	(OVER 15 UNITS) (UNITS)
STA 36+19		32
STA 38+95		24
STA 46+54 - 3 RT	8	
STA 51+08	15	
STA 51+26	15	
STA 52+02		32
TOTAL	38	88

SIDEWALK SCHEDULE

LOCATION	PORTLAND CEMENT CONCRETE SIDEWALK 4" (SQ FT)	DETECTABLE WARNINGS (SQ FT)
STA 33+67.18 TO 34+30 LT	360	12
STA 33+67.18 TO 34+30 RT	400	12
STA 34+66 TO 52+76 LT	9390	30
STA 34+66 TO 46+60 RT	6110	24
STA 46+95 TO 52+71 RT	3050	18
STA 53+00 LT	85	18
STA 53+00 RT	220	18
STA 53+83 TO 54+22 LT	245	6
STA 53+83 TO 54+00 RT	135	6
TOTAL	19995	144

MISCELLANEOUS SCHEDULE

LOCATION	MANHOLES TO BE ADJUSTED (EACH)	VALVE BOXES TO BE ADJUSTED (EACH)
STA 34+86 - 48 RT		1
STA 36+74 - 39 LT	1	
STA 40+74 - 39 LT	1	
STA 44+74 - 34 LT	1	
STA 48+74 - 34 LT	1	
STA 52+24 - 34 LT	1	
STA 53+88 - 25 RT		1
STA 53+93 - 7 RT		1
STA 200+07 - 45 LT	1	
TOTAL	6	3

PAVEMENT SCHEDULE

LOCATION	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SQ YD)	SUB-BASE GRANULAR MATERIAL TYPE B 12" (SQ YD)	AGGREGATE BASE COURSE TYPE B	BITUMINOUS MATERIALS (PRIME COAT) (GALLON)	AGGREGATE (PRIME COAT) (TON)	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT	AGGREGATE SHOULDERS TYPE A 6" (SQ YD)	HOT-MIX ASPHALT SHOULDERS 8" (SQ YD)	COMBINATION CONCRETE CURB AND GUTTER			HOT-MIX ASPHALT BASE COURSE 6" (SQ YD)	HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50 (TON)	HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50 (TON)	POLYMERIZED LEVELING BINDER (MACHINE METHOD), N70 (TON)	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE MIX "D", N70 (TON)
			4" (SQ YD)			6" (SQ YD)			TYPE B-6.24 (FOOT)	TYPE M-6.12 (FOOT)	TYPE M-6.18 (FOOT)					
STA 33+67.18 TO 36+76	1998	1998							684			1745	180	257		
STA 36+76 TO 46+20	4012	4012							1888		1888	2858	294	420		
STA 46+20 TO 48+71	1493	1493							530			1304	134	192		
STA 48+71 TO 50+15	848	848							288			752	77	111		
STA 50+15 TO 51+68	1003	1003							306			901	93	132		
STA 51+05 LT						28										
STA 51+68 TO 53+12	1385	1385							346	138		1270	131	187		
STA 53+56 TO 54+67	652	652							287			563	58	83		
STA 54+67 TO 55+90	564	564							246			482	50	71		
STA 55+90 TO 56+92	65	65							102			31	3	5		
STA 197+16 TO 200+00			79	130	2.6			73							76	114
STA 200+00 TO 203+74	423	423	258	212	4.2		156	233				248			111	166
STA 193+64 TO 197+16				80	1.6										94	141
TOTAL	12443	12443	337	422	8.4	28	156	306	4677	138	1888	10154	1020	1458	281	421

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	5

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
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PROJECT:
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SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: N/A	FILE NO.
DRAWN BY: MRG	SHEET 5
CHECKED BY: SRM	41

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STORM SEWER PIPE SCHEDULE

LOCATION	PRECAST REINFORCED CONCRETE FLARED END SECTIONS			GRATING FOR CONC. FLARED END SEC. 30" EQUIV. (EACH)	STORM SEWERS, CLASS A, TYPE 1							STORM SEWERS, TYPE 1 REIN. CONC. ELLIPTICAL PIPE		STORM SEWERS CLASS A, TYPE 2
	15" (EACH)	30" EQUIV. (EACH)	42" EQUIV. (EACH)		12" (FOOT)	15" (FOOT)	18" (FOOT)	24" (FOOT)	30" (FOOT)	36" (FOOT)	42" (FOOT)	SPAN 38, RISE 24 (FOOT)	SPAN 53, RISE 34 (FOOT)	24" (FOOT)
STA 33+58 TO 34+00 RT						42								
STA 34+00					75									
STA 34+00 TO 34+90 RT						90								
STA 34+90					68									
STA 34+90 TO 36+45 RT							155							
STA 36+45					75									
STA 36+45 TO 38+20 RT							175							
STA 38+20					75									
STA 38+20 TO 39+54 RT							134							
STA 39+54			1		20								95	
STA 39+54 TO 40+60 RT											106			
STA 40+60					75									
STA 40+60 TO 41+90 RT										130				
STA 41+90					75									
STA 41+90 TO 42+75 RT										85				
STA 42+75									16					
STA 42+75 TO 43+20 RT								45						
STA 43+20					75									
STA 43+20 TO 44+40 RT								120						
STA 44+40					75									
STA 44+40 TO 46+00 RT														160
STA 46+00 TO 48+75 RT														275
STA 48+75					75									
STA 48+75 TO 50+55 RT								180						
STA 50+55					83									
STA 50+55 TO 51+70 RT							115							
STA 51+70					57									
STA 51+70 TO 52+30 RT						63								
STA 52+30 TO 52+86 RT						84								
STA 52+86 RT	1					33								
STA 53+74	1	1		1		51						168		
STA 53+74 TO 54+02 RT												28		
STA 54+55					50									
TOTAL	**2**	**1**	**1**	**1**	**878**	**363**	**579**	**345**	**16**	**215**	**106**	**196**	**95**	**435**

PAVEMENT MARKING SCHEDULE

LOCATION	TEMPORARY PAVEMENT MARKING LINE 4" (FOOT)	THERMOPLASTIC PAVEMENT MARKING						
		LETTERS AND SYMBOLS (SQ FT)	LINE 4" (FOOT)	LINE 6" (FOOT)	LINE 8" (FOOT)	LINE 12" (FOOT)	LINE 24" (FOOT)	
STA 34+17				104		102		CROSS WALK WHITE
STA 34+48 LT				60		60		CROSS WALK WHITE
STA 34+48 RT				60		60	14	CROSS WALK WHITE AND STOP BAR
STA 35+08							12	STOP BAR WHITE
STA 35+08 TO 36+23					115			LINE WHITE
STA 35+08 TO 36+76			442			6		LINE YELLOW
STA 35+32		15.6						LEFT ARROW WHITE
STA 35+99		15.6						LEFT ARROW WHITE
STA 36+23 TO 37+23					25			DOTTED LINE WHITE
STA 46+48				106		102		CROSS WALK WHITE
STA 46+77 RT				60		60	14	CROSS WALK WHITE AND STOP BAR
STA 47+07				100		96		CROSS WALK WHITE
STA 47+38							12	STOP BAR WHITE
STA 47+38 TO 48+76					138			LINE WHITE
STA 47+38 TO 52+60			1044					LINE YELLOW
STA 47+62		15.6						LEFT ARROW WHITE
STA 48+52		15.6						LEFT ARROW WHITE
STA 48+76 TO 50+20					36			DOTTED LINE WHITE
STA 48+86 TO 50+30					36			DOTTED LINE WHITE
STA 48+95 TO 50+15 RT					30			DOTTED LINE WHITE
STA 50+15 TO 52+54 RT					239			LINE WHITE
STA 50+30 TO 52+70					240			LINE WHITE
STA 50+54		15.6						LEFT ARROW WHITE
STA 50+54		11.5						THRU ARROW WHITE
STA 50+54		15.6						RIGHT ARROW WHITE
STA 51+45		15.6						LEFT ARROW WHITE
STA 51+45		11.5						THRU ARROW WHITE
STA 51+45		15.6						RIGHT ARROW WHITE
STA 52+36		15.6						LEFT ARROW WHITE
STA 52+36		11.5						THRU ARROW WHITE
STA 52+36		15.6						RIGHT ARROW WHITE
STA 52+54 TO 53+05 RT					81	45		LINE YELLOW
STA 52+60							12	STOP BAR WHITE
STA 52+70							12	STOP BAR WHITE
STA 52+72 TO 52+88 RT				48		48		CROSS WALK WHITE
STA 52+73							17	STOP BAR WHITE
STA 52+73 TO 53+15 LT					132	64		LINE YELLOW
STA 52+80 TO 52+96 LT				48		48		CROSS WALK WHITE
STA 52+91 LT							17	STOP BAR WHITE
STA 52+94				98		96		CROSS WALK WHITE
STA 53+83				138		132		CROSS WALK WHITE
STA 53+90							20	STOP BAR WHITE
STA 53+90 TO 55+00					110			LINE WHITE
STA 54+00							12	STOP BAR WHITE
STA 54+00 TO 57+88			1352			69		LINE YELLOW
STA 54+24		26						THRU/RIGHT ARROW WHITE

PAVEMENT MARKING SCHEDULE

LOCATION	TEMPORARY PAVEMENT MARKING LINE 4" (FOOT)	THERMOPLASTIC PAVEMENT MARKING						
		LETTERS AND SYMBOLS (SQ FT)	LINE 4" (FOOT)	LINE 6" (FOOT)	LINE 8" (FOOT)	LINE 12" (FOOT)	LINE 24" (FOOT)	
STA 54+24		15.6						LEFT ARROW WHITE
STA 54+76		26						THRU/RIGHT ARROW WHITE
STA 54+76		15.6						LEFT ARROW WHITE
STA 55+00 TO 56+32					33			DOTTED LINE WHITE
STA 193+64 TO 194+79					115			LINE WHITE
STA 193+64 TO 197+41 LT			377					LINE WHITE
STA 193+64 TO 198+27 RT			463					LINE WHITE
STA 193+64 TO 198+35			942					LINE YELLOW
STA 193+64 TO 203+74	500							SKIP DASH YELLOW
STA 193+88		15.6						LEFT ARROW WHITE
STA 194+55		15.6						LEFT ARROW WHITE
STA 194+79 TO 196+23					36			DOTTED LINE WHITE
STA 194+91 TO 196+35					36			DOTTED LINE WHITE
STA 196+35 TO 198+45					210			LINE WHITE
STA 196+59		15.6						LEFT ARROW WHITE
STA 196+59		26						THRU/RIGHT ARROW WHITE
STA 197+35		15.6						LEFT ARROW WHITE
STA 197+35		26						THRU/RIGHT ARROW WHITE
STA 198+11		15.6						LEFT ARROW WHITE
STA 198+11		26						THRU/RIGHT ARROW WHITE
STA 198+35							12	STOP BAR WHITE
STA 198+45							16	STOP BAR WHITE
STA 198+76				147		144		CROSS WALK WHITE
STA 199+48				145		144		CROSS WALK WHITE
STA 199+75							12	STOP BAR WHITE
STA 199+75 TO 201+70 LT					195			LINE WHITE
STA 199+85							12	STOP BAR WHITE
STA 199+85 TO 202+68			762			14		LINE YELLOW
STA 199+90 TO 201+70					180			LINE WHITE
STA 200+09		15.6						RIGHT ARROW WHITE
STA 200+09		11.5						THRU ARROW WHITE
STA 200+09		15.6						LEFT ARROW WHITE
STA 200+24 TO 203+74 LT			350					LINE WHITE
STA 200+53 TO 202+68 RT			215					LINE WHITE
STA 200+78		15.6						RIGHT ARROW WHITE
STA 200+78		11.5						THRU ARROW WHITE
STA 200+78		15.6						LEFT ARROW WHITE
STA 201+46		15.6						RIGHT ARROW WHITE
STA 201+46		11.5						THRU ARROW WHITE
STA 201+46		15.6						LEFT ARROW WHITE
STA 201+70 TO 202+58					22			DOTTED LINE WHITE
STA 201+70 TO 203+74 LT					51			DOTTED LINE WHITE
STA 203+26 TO 203+74					48			LINE WHITE
STA 203+26 TO 203+74 RT			48					LINE WHITE
STA 203+26 TO 203+74			96					LINE YELLOW
STA 203+50		15.6						LEFT ARROW WHITE
TOTAL	**500**	**573.4**	**6091**	**1114**	**2108**	**1290**	**194**	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	6

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS AND LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

SCHEDULE OF QUANTITIES

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	6
CHECKED BY:	SRM		41

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STORM SEWER STRUCTURE SCHEDULE

STRUCTURE	LOCATION	MANHOLES, TYPE A, TYPE 1 FRAME					MANHOLES, 7' DIA., TYPE A, TYPE 3 FRAME AND GRATE (EACH)	INLETS		CONCRETE STORM SEWER PLUG, 15" (EACH)
		4' - CLOSED LID (EACH)	5' - CLOSED LID (EACH)	6' - CLOSED LID (EACH)	7' - CLOSED LID (EACH)	8' - CLOSED LID (EACH)		TYPE A, TYPE 3 FRAME AND GRATE (EACH)	TYPE B, TYPE 3 FRAME AND GRATE (EACH)	
	STA 33+58 - 33 RT									1
124	STA 33+90 - 22 LT							1		
122	STA 33+90 - 22 RT							1		
123	STA 34+00 - 22 LT								1	
121	STA 34+00 - 22 RT								1	
120	STA 34+00 - 33 RT	1								
119	STA 34+31 - 55 RT							1		
118	STA 34+65 - 55 RT								1	
117	STA 34+90 - 33 RT				1					
116	STA 36+35 - 22 LT							1		
114	STA 36+35 - 22 RT							1		
115	STA 36+45 - 22 LT								1	
113	STA 36+45 - 22 RT								1	
112	STA 36+45 - 33 RT	1								
111	STA 38+10 - 22 LT							1		
109	STA 38+10 - 22 RT							1		
110	STA 38+20 - 22 LT								1	
108	STA 38+20 - 22 RT								1	
107	STA 38+20 - 33 RT	1								
103	STA 39+44 - 22 LT							1		
105	STA 39+44 - 22 RT							1		
102	STA 39+54 - 22 LT						1			
104	STA 39+54 - 22 RT						1			
106	STA 39+54 - 33 RT					1				
136	STA 40+60 - 22 LT								1	
134	STA 40+60 - 22 RT								1	
133	STA 40+60 - 33 RT			1						
137	STA 40+70 - 22 LT							1		
135	STA 40+70 - 22 RT							1		
141	STA 41+90 - 22 LT								1	
139	STA 41+90 - 22 RT								1	
138	STA 41+90 - 33 RT		1							
142	STA 42+00 - 22 LT							1		
140	STA 42+00 - 22 RT							1		
143	STA 42+75 - 33 RT			1						
144	STA 42+75 - 50 RT		1							
148	STA 43+20 - 22 LT								1	
146	STA 43+20 - 22 RT								1	
145	STA 43+20 - 33 RT	1								
149	STA 43+30 - 22 LT							1		
147	STA 43+30 - 22 RT							1		
153	STA 44+40 - 22 LT								1	
151	STA 44+40 - 22 RT								1	
150	STA 44+40 - 33 RT	1								
154	STA 44+50 - 22 LT							1		
152	STA 44+50 - 22 RT							1		
155	STA 46+00 - 33 RT	1								
160	STA 48+65 - 22 LT							1		
158	STA 48+65 - 22 RT							1		
159	STA 48+75 - 22 LT								1	
157	STA 48+75 - 22 RT								1	
156	STA 48+75 - 33 RT	1								
165	STA 50+45 - 22 LT							1		
163	STA 50+45 - 35 RT							1		
164	STA 50+55 - 22 LT								1	
162	STA 50+55 - 35 RT								1	
161	STA 50+55 - 40 RT	1								
167	STA 51+70 - 22 LT							1		
166	STA 51+70 - 35 RT							1		
166A	STA 51+70 - 40 RT	1								
168	STA 52+33 - 40 RT	1								
176	STA 54+55 - 20 LT							1		
177	STA 54+55 - 20 RT							1		
169	STA 198+08 - 41 LT	1								
172	STA 198+57 - 38 RT				1					
173	STA 198+61 - 63 RT		1							
	TOTAL	11	3	2	2	1	2	25	19	1

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	7

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
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SCHEDULE OF QUANTITIES

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
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03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	7
CHECKED BY:	SRM		41

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STORM SEWER STRUCTURE SCHEDULE

101) STA: 39+54 62' LT
53"x34" ELLIPTICAL FES
INV = 682.81
101-102: 40 LF 53"x34" ELLIPTICAL RCP @ 0.12%

102) STA: 39+54 22' LT
6' DIA. TYPE 'A' MANHOLE W/TYPE 3 FRAME AND GRATE
EOP = 687.96
12" W FL IN = 684.86
53"x34" S FL IN = 682.86
53"x34" N FL OUT = 682.86
102-103: 10 LF 12" RCP @ 1.00%
102-104: 45 LF 53"x34" ELLIPTICAL RCP @ 0.12%

103) STA: 39+44 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 687.96
12" E FL OUT = 684.96

104) STA: 39+54 22' RT
6' DIA. TYPE 'A' MANHOLE W/TYPE 3 FRAME AND GRATE
EOP = 687.96
12" W FL IN = 684.86
53"x34" S FL IN = 682.91
53"x34" N FL OUT = 682.91
104-105: 10 LF 12" RCP @ 1.00%
104-106: 10 LF 53"x34" ELLIPTICAL RCP @ 0.12%

105) STA: 39+44 22' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 687.96
12" E FL OUT = 684.96

106) STA: 39+54 33' RT
8' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 688.60
18" W FL IN = 684.21
42" E FL IN = 682.93
53"x34" N FL OUT= 682.93
106-107: 124 LF 18" RCP @ 0.43%
106-133: 106 LF 42" RCP @ 0.11%

107) STA: 38+20 33' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 689.02
12" N FL IN = 684.77
18" W FL IN = 684.74
18" E FL OUT = 684.74
107-108: 10 LF 12" RCP @ 1.00%
107-112: 175 LF 18" RCP @ 0.40%

108) STA: 38+20 22' RT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.38
12" W FL IN = 685.32
12" N FL IN = 684.87
12" S FL OUT = 684.87
108-109: 10 LF 12" RCP @ 1.00%
108-110: 45 LF 12" RCP @ 1.00%

109) STA: 38+10 22' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.42
12" E FL OUT = 685.42

110) STA: 38+20 22' LT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.38
12" W FL IN = 685.32
12" S FL OUT = 685.32
110-111: 10 LF 12" RCP @ 1.00%

111) STA: 38+10 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.42
12" E FL OUT = 685.42

112) STA: 36+45 33' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 689.72
12" N FL IN = 685.47
18" W FL IN = 685.44
18" E FL OUT = 685.44
112-113: 10 LF 12" RCP @ 1.00%
112-117: 155 LF 18" RCP @ 0.40%

113) STA: 36+45 22' RT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.08
12" W FL IN = 686.02
12" N FL IN = 685.57
12" S FL OUT = 685.57
113-114: 10 LF 12" RCP @ 1.00%
113-115: 45 LF 12" RCP @ 1.00%

114) STA: 36+35 22' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.12
12" E FL OUT = 686.12

115) STA: 36+45 22' LT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.08
12" W FL IN = 686.02
12" S FL OUT = 686.02
115-116: 10 LF 12" RCP @ 1.00%

116) STA: 36+35 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.12
12" E FL OUT = 686.12

117) STA: 34+90 33' RT
7' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 689.70
12" SW FL IN = 688.60
15" W FL IN = 686.06
18" E FL OUT = 686.06
117-118: 34 LF 12" RCP @ 1.00%
117-120: 90 LF 15" RCP @ 0.43%

118) STA: 34+64 55' RT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 692.37
12" W FL IN = 688.94
12" NE FL OUT = 688.94
118-119: 34 LF 12" RCP @ 1.00%

119) STA: 34+30 55' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 692.28
12" E FL OUT = 689.28

120) STA: 34+00 33' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 690.70
12" N FL IN = 686.45
15" W FL IN = 686.55
15" E FL OUT = 686.45
120-121: 10 LF 12" RCP @ 1.00%
120-120A: 42 LF 15" RCP @ 0.40%

120A) STA: 33+58 33' RT
15" PLUG
INV = 686.72

121) STA: 34+00 22' RT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 690.06
12" W FL IN = 687.00
12" N FL IN = 686.55
12" S FL OUT = 686.55
121-122: 10 LF 12" RCP @ 1.00%
121-123: 45 LF 12" RCP @ 1.00%

122) STA: 33+90 22' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 690.10
12" E FL OUT = 687.10

123) STA: 34+00 22' LT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 690.06
12" W FL IN = 687.00
12" S FL OUT = 687.00
123-124: 10 LF 12" RCP @ 1.00%

124) STA: 33+90 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 690.10
12" E FL OUT = 687.10

133) STA: 40+60 33' RT
6' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 688.94
12" N FL IN = 684.69
36" E FL IN = 683.41
42" W FL OUT = 683.04
133-134: 10 LF 12" RCP @ 1.00%
133-138: 130 LF 36" RCP @ 0.24%

134) STA: 40+60 22' RT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.30
12" E FL IN = 685.24
12" N FL IN = 684.79
12" S FL OUT = 684.79
134-135: 10 LF 12" RCP @ 1.00%
134-136: 45 LF 12" RCP @ 1.00%

135) STA: 40+70 22' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.34
12" W FL OUT = 685.34

136) STA: 40+60 22' LT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.30
12" E FL IN = 685.24
12" S FL OUT = 685.24
136-137: 10 LF 12" RCP @ 1.00%

137) STA: 40+70 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.34
12" W FL OUT = 685.34

138) STA: 41+90 33' RT
5' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 689.46
12" N FL IN = 685.21
36" E FL IN = 683.93
36" W FL OUT = 683.72
138-139: 10 LF 12" RCP @ 1.00%
138-143: 85 LF 36" RCP @ 0.24%

139) STA: 41+90 22' RT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.82
12" E FL IN = 685.76
12" N FL IN = 685.31
12" S FL OUT = 685.31
139-140: 10 LF 12" RCP @ 1.00%
139-141: 45 LF 12" RCP @ 1.00%

140) STA: 42+00 22' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.86
12" W FL OUT = 685.86

141) STA: 41+90 22' LT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.82
12" E FL IN = 685.76
12" S FL OUT = 685.76
141-142: 10 LF 12" RCP @ 1.00%

142) STA: 42+00 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 688.86
12" W FL OUT = 685.86

143) STA: 42+75 33' RT
6' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 689.80
30" S FL IN = 686.01
24" E FL IN = 685.36
36" W FL OUT = 684.13
143-144: 16 LF 30" RCP @ 0.51%
143-145: 45 LF 24" RCP @ 0.21%

144) STA: 42+75 50' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 691.00
EX. 30" S FL IN = 689.07
30" N FL OUT = 686.09

145) STA: 43+20 33' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 689.98
12" N FL IN = 685.73
24" E FL IN = 685.46
24" W FL OUT = 685.46
145-146: 10 LF 12" RCP @ 1.00%
145-150: 120 LF 24" RCP @ 0.18%

146) STA: 43+20 22' RT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.34
12" E FL IN = 686.28
12" N FL IN = 685.83
12" S FL OUT = 685.83
146-147: 10 LF 12" RCP @ 1.00%
146-148: 45 LF 12" RCP @ 1.00%

147) STA: 43+30 22' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.38
12" W FL OUT = 686.38

148) STA: 43+20 22' LT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.34
12" E FL IN = 686.28
12" S FL OUT = 686.28
148-149: 10 LF 12" RCP @ 1.00%

149) STA: 43+30 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.38
12" W FL OUT = 686.38

150) STA: 44+40 33' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 690.46
12" N FL IN = 686.21
24" E FL IN = 685.67
24" W FL OUT = 685.67
150-151: 10 LF 12" RCP @ 1.00%
150-155: 160 LF 24" RCP @ 0.17%

151) STA: 44+40 22' RT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.82
12" E FL IN = 686.76
12" N FL IN = 686.31
12" S FL OUT = 686.31
151-152: 10 LF 12" RCP @ 1.00%
151-153: 45 LF 12" RCP @ 1.00%

152) STA: 44+50 22' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.86
12" W FL OUT = 686.86

153) STA: 44+40 22' LT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.82
12" E FL IN = 686.76
12" S FL OUT = 686.76
153-154: 10 LF 12" RCP @ 1.00%

154) STA: 44+50 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 689.86
12" W FL OUT = 686.86

155) STA: 46+00 33' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 691.85
24" E FL IN = 685.95
24" W FL OUT = 985.95
155-156: 275 LF 24" RCP @ 0.17%

156) STA: 48+75 33' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 691.73
12" N FL IN = 687.48
24" E FL IN = 686.41
24" W FL OUT = 686.41
156-157: 10 LF 12" RCP @ 1.00%
156-161: 180 LF 24" RCP @ 0.17%

157) STA: 48+75 22' RT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 691.09
12" W FL IN = 688.03
12" N FL IN = 687.58
12" S FL OUT = 687.58
157-158: 10 LF 12" RCP @ 1.00%
157-159: 45 LF 12" RCP @ 1.00%

158) STA: 48+65 22' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 691.13
12" E FL OUT = 688.13

159) STA: 48+75 22' LT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 691.09
12" W FL IN = 688.03
12" S FL OUT = 688.03
159-160: 10 LF 12" RCP @ 1.00%

160) STA: 48+65 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 691.13
12" E FL OUT = 688.13

161) STA: 50+55 40' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 691.07
12" N FL IN = 686.76
18" E FL IN = 686.87
24" W FL OUT = 686.72
161-162: 6 LF 12" RCP @ 1.00%
161-166A: 115 LF 18" RCP @ 0.30%

162) STA: 50+55 35' RT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 690.24
12" W FL IN = 687.15
12" N FL IN = 686.82
12" S FL OUT = 686.82
162-163: 10 LF 12" RCP @ 1.00%
162-164: 57 LF 12" RCP @ 1.00%

163) STA: 50+45 35' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 690.25
12" E FL OUT = 687.25

164) STA: 50+55 22' LT
3' DIA. TYPE 'B' INLET W/TYPE 3 FRAME AND GRATE
EOP = 690.48
12" W FL IN = 687.39
12" S FL OUT = 687.39
164-165: 10 LF 12" RCP @ 1.00%

165) STA: 50+45 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 690.49
12" E FL OUT = 687.49

166) STA: 51+70 35' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 690.60
12" N FL IN = 687.27
12" S FL OUT = 687.27
166-167: 57 LF 12" RCP @ 1.00%

166A) STA: 51+70 40' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 691.10
12" N FL IN = 687.21
15" E FL IN = 688.85
18" W FL OUT = 687.21
166A-166: 6 LF 12" RCP @ 1.00%
166A-168: 63 LF 15" RCP @ 0.40%

167) STA: 51+70 22' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 690.84
12" E FL OUT = 687.84

168) STA: 52+33 40' RT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 691.57
15" SE FL IN = 689.10
15" W FL OUT = 689.10
168-169: 84 LF 15" RCP @ 0.40%

169) STA: 198+19 47' LT
4' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 692.91
15" S FL IN = 689.98
15" NW FL OUT = 689.44
169-170: 33 LF 15" RCP @ 2.00%

170) STA: 197+80 40' LT
15" FES
INV = 690.64

171) STA: 200+31 38' RT
38"x24" ELLIPTICAL FES
INV = 688.93
171-172: 168 LF 38"x24" ELLIPTICAL RCP @ 0.13%

172) STA: 198+57 38' RT
7' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 692.48
38"x24" E FL IN = 689.15
15" S FL IN = 689.15
38"x24" N FL OUT = 689.15
172-173: 31 LF 38"x24" ELLIPTICAL RCP @ 0.13%
172-174: 51 LF 15" RCP @ 0.32%

173) STA: 198+61 63' RT
5' DIA. TYPE 'A' MANHOLE W/TYPE 1 FRAME, CLOSED LID
T/RIM = 693.00
EX. 30" SE FL IN = 689.19
38"x24" W FL OUT = 689.19

174) STA: 198+00 38' RT
15" FES
INV = 689.35

175) STA: 54+55 30' LT
EXISTING MANHOLE
T/RIM = 689.67
EX. 12" E FL IN = 686.67
12" S FL IN = 687.87
EX. 12" NW FL OUT = 686.62
175-176: 10 LF 12" RCP @ 1.00%

176) STA: 54+55 20' LT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 691.37
12" S FL IN = 687.97
12" NW FL OUT = 687.97
176-177: 40 LF 12" RCP @ 1.00%

177) STA: 54+55 20' RT
2' DIA. TYPE 'A' INLET W/TYPE 3 FRAME AND GRATE
EOP = 691.37
12" N FL OUT = 688.37

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	8

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS AND LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

STORM SEWER STRUCTURE SCHEDULE

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	8
CHECKED BY:	SRM		41

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WIRING SCHEDULE

LOCATION	CONDUIT IN TRENCH					CONDUIT PUSHED		HANDHOLE PORTLAND CEMENT CONCRETE (EACH)	DOUBLE HANDHOLE PORTLAND CEMENT CONC. (EACH)	ELECTRIC CABLE IN CONDUIT, 600V (XPL-TYPE USE)	TRENCH AND BACKFILL FOR ELECTRICAL WORK (FOOT)	ELECTRIC CABLE IN CONDUIT									DRILL EXISTING HANDHOLE (EACH)	FIBER OPTIC CABLE IN CONDUIT, NO.62.5/125 MM12F & SM12F (FOOT)	SERVICE INSTALLATION GROUND MOUNTED (EACH)	UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE (FOOT)
	1" DIA PVC (FOOT)	2" DIA PVC (FOOT)	2 1/2" DIA PVC (FOOT)	3" DIA PVC (FOOT)	5" DIA PVC (FOOT)	2" DIA PVC (FOOT)	4" DIA PVC (FOOT)			3-1C NO.4 (FOOT)		SIGNAL NO. 14 2C (FOOT)	SIGNAL NO.14 3C (FOOT)	SIGNAL NO.14 5C (FOOT)	SIGNAL NO.14 7C (FOOT)	LEAD IN NO.14 1 PAIR (FOOT)	SERVICE NO.6 2C (FOOT)	GROUNDING NO.6 1C (FOOT)	TRACER NO.14 1C (FOOT)	NO. 20 3/C TWISTED, SHIELDED (FOOT)				
STA 26+08 - 36 RT																							1	
STA 26+08 TO 34+09											775													820
STA 33+67 TO 34+09		45									45													
STA 34+09 TO 34+28		105								115	105													
STA 34+28 TO 34+97 RT		84								94	84													
STA 34+97 TO 35+73		126								136	126													
STA 35+73 TO 36+79		136								146	136													
STA 36+79 TO 38+47		168								178	168													
STA 38+47 TO 40+15		168								178	168													
STA 41+84 TO 43+52		168								178	168													
STA 43+52 TO 45+20		168								178	168													
STA 45+20 TO 46+29		134								144	134													
STA 46+29 TO 48+58		90								100	90													
STA 46+58 TO 47+27 RT		80								90	80													
STA 47+27 TO 48+08		131								141	131													
STA 48+08 TO 49+08		154								164	154													
STA 49+08 TO 50+10		156								166	156													
STA 50+10 TO 50+96		148								158	148													
STA 50+96 TO 51+78		144								154	144													
STA 51+78 TO 52+67 LT		94								104	94													
STA 52+44 TO 52+64 RT	200										40													
STA 52+59 TO 52+67 LT			8								8	77	56	74	86			11		77				
STA 52+59 TO 52+67 LT		8								38	8													
STA 52+61 TO 52+64 RT					12						6	280	336	140	336	420		28	56	56		56		
STA 52+61 TO 52+80 RT		26									26						44	44						
STA 52+61 TO 52+61 RT	104										26													
STA 52+66 - 68 RT									1															
STA 52+67		124								134	124													
STA 52+67 - 57 LT								1																
STA 52+67 TO 52+69 RT			8								8	34	48		24			11						
STA 52+67 TO 52+70 RT		5								15	5													
STA 52+67 TO 52+73 LT			11								11	40	54		54			14						
STA 52+67 TO 53+78 RT							114			124														
STA 52+67 TO 52+78 RT	32										16													
STA 52+67 TO 52+79 RT			13								13	71	59	79	158			16		71				
STA 52+67 TO 52+79 RT		11								41	11													
STA 52+67 TO 52+82 LT	32										16													
STA 52+67 TO 52+93 LT	141										47													
STA 52+67 TO 53+77 RT							115					512	768	384	768	896		128	128			128		
STA 52+80 - 92 RT																							1	
STA 53+60 TO 53+77 RT	56										56													
STA 53+65 TO 53+77 RT	42										14													
STA 53+67 TO 53+77 RT			19								19			35	35			22						
STA 53+78 - 45 RT									1															
STA 53+78 TO 53+90 RT		10								40	10													
STA 53+78 TO 53+97		81								91	81													
STA 53+80 TO 53+90 RT			12								12	42	100	65	129			15						
STA 53+89 TO 53+97 LT			15								15	48	127	81	124			18						
STA 53+89 TO 53+97 LT	24										8													
STA 53+89 TO 53+97 LT		14								44	14													
STA 53+93 TO 53+97 LT	15										5													
STA 53+97 - 34 LT								1																
STA 53+97 TO 54+12 LT	84										21													
STA 53+97 TO 54+51		102								112	102													
STA 54+51 TO 55+68		163								173	163													
STA 171+78 TO 171+85 RT																			12			12		
STA 171+85 TO 172+32																			126			126		
STA 172+32 TO 173+20 LT																			95			95		
STA 173+20 TO 174+37 LT																			124			124		
STA 174+37 TO 177+00 LT																			270			270		
STA 177+00 TO 177+70 LT																			77			77		
STA 177+70 - 41 LT																					1			
STA 177+70 TO 183+15 LT		545									545								552			552		
STA 183+15 - 30 LT								1																
STA 183+15 TO 185+71 LT		256									256								263			263		
STA 185+71 TO 185+99 LT						28													28			28		
STA 185+99 TO 188+60 LT		261									261								261			261		
STA 188+60 - 27 LT								1																
STA 188+60 TO 193+85 LT		525									525								532			532		
STA 193+85						57													64			64		
STA 193+85 - 27 LT								1																
STA 193+85 - 30 RT	3							1			3													
STA 193+85 TO 198+65 RT		484									484					491			491			491		
STA 197+43 TO 198+13 LT		72									72													
STA 198+40 TO 199+65 LT				125							125	396	396	132	396	528		132	132	132		132		
STA 198+65 TO 199+43 RT				81							81	176	264	88	176	352		88						
STA 199+65 TO 204+35 LT		475									475					482			482			482		
STA 204+35 - 29 LT	8							1			8													
STA 204+35 TO 210+02 LT		577									577								584			584		
STA 210+02 - 27 LT								1																

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	9

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS AND SURVEYORS
DESIGN FIRM LICENSE #184-001136
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NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

SCHEDULE OF QUANTITIES

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	9
CHECKED BY:	SRM		41

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WIRING SCHEDULE *(CONTINUED)*

LOCATION	CONDUIT IN TRENCH					CONDUIT PUSHED		HANDHOLE PORTLAND CEMENT CONCRETE (EACH)	DOUBLE HANDHOLE PORTLAND CEMENT CONC. (EACH)	ELECTRIC CABLE IN CONDUIT, 600V (XPL-TYPE USE)	TRENCH AND BACKFILL FOR ELECTRICAL WORK (FOOT)	ELECTRIC CABLE IN CONDUIT									DRILL EXISTING HANDHOLE (EACH)	FIBER OPTIC CABLE IN CONDUIT, NO.62.5/125 MM12F & SM12F (FOOT)	SERVICE INSTALLATION GROUND MOUNTED (EACH)	UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE (FOOT)
	1" DIA PVC (FOOT)	2" DIA PVC (FOOT)	2 1/2" DIA PVC (FOOT)	3" DIA PVC (FOOT)	5" DIA PVC (FOOT)	2" DIA PVC (FOOT)	4" DIA PVC (FOOT)			3-1C NO.4 (FOOT)		SIGNAL NO. 14 2C (FOOT)	SIGNAL NO.14 3C (FOOT)	SIGNAL NO.14 5C (FOOT)	SIGNAL NO.14 7C (FOOT)	LEAD IN NO.14 1 PAIR (FOOT)	SERVICE NO.6 2C (FOOT)	GROUNDING NO.6 1C (FOOT)	TRACER NO.14 1C (FOOT)	NO. 20 3/C TWISTED, SHIELDED (FOOT)				
STA 210+02 TO 215+85 LT		583									583								590			590		
STA 215+85 - 27 LT								1																
STA 215+85 TO 221+68 LT		583									583								590			590		
STA 221+68						54													61			61		
STA 221+68 - 27 LT								1																
STA 221+68 - 27 RT																					1			
STA 221+68 TO 225+27 RT																			366			366		
STA 225+27 TO 226+07 RT																			87			87		
STA 226+07 TO 226+30																			109			109		
STA 226+07 TO 226+30 LT																			32			32		
TOTAL	741	7204	86	206	12	139	229	10	2	3236	8537	1676	2208	1078	2286	3169	44	527	6084	336	2	6084	2	820

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	10

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
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3	4/9/09	MRG	PHASING

SCHEDULE OF QUANTITIES

PROJECT:
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FROM BURNING BUSH DRIVE
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SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
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LIGHTING SCHEDULE

LOCATION	LUMINAIRE SODIUM VAPOR HORZ. MOUNT			LIGHT POLE ALUMINUM		LIGHT POLE FOUNDATION 24" DIA. (FOOT)	BREAKAWAY DEVICE, COUPLING WITH ALUMINUM SKIRT (EACH)	LIGHTING CONTROLLER TYPE CB-RCS 200 AMP-240V (EACH)
	150 WATT (EACH)	250 WATT (EACH)	400 WATT (EACH)	33 FT. M.H. 10 FT. TRUSS ARM (EACH)	33 FT. M.H. 10 FT. TRUSS ARM - TWIN (EACH)			
STA 26+08 - 38 RT								1
STA 34+09 - 32 LT		1		1		5.5	4	
STA 34+97 - 29 RT		1		1		5.5	4	
STA 34+28 - 70 RT	1			1		5.5	4	
STA 35+73 - 26 LT	1			1		5.5	4	
STA 36+79 - 4 RT	2				1	5.5	4	
STA 38+47	2				1	5.5	4	
STA 40+15	2				1	5.5	4	
STA 41+84	2				1	5.5	4	
STA 43+52	2				1	5.5	4	
STA 45+20	2				1	5.5	4	
STA 46+29 - 26 LT		1		1		5.5	4	
STA 47+27 - 29 RT		1		1		5.5	4	
STA 48+58 - 80 RT	1			1		5.5	4	
STA 48+08 - 26 LT	1			1		5.5	4	
STA 49+08 - 29 RT	1			1		5.5	4	
STA 50+10 - 26 LT	1			1		5.5	4	
STA 50+96 - 38 RT	1			1		5.5	4	
STA 51+78 - 26 LT		1		1		5.5	4	
STA 52+59 - 55 LT			1					
STA 52+69 - 80 RT								1
STA 198+85 - 55 LT			1					
STA 198+67 - 59 RT			1					
STA 199+57 - 55 RT			1					
STA 54+51 - 24 RT		1		1		5.5	4	
STA 55+68 - 24 LT	1			1		5.5	4	
TOTAL	**20**	**6**	**4**	**14**	**6**	**110**	**80**	**2**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	11

CONTRACT NO. 87414

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

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3	4/9/09	MRG	PHASING

SCHEDULE OF QUANTITIES

PROJECT:
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SECTION
03-00058-00-FP

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DRAWN BY:	MRG	SHEET	11
CHECKED BY:	SRM		41

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TRAFFIC SIGNALS SCHEDULE

LOCATION	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL (EACH)	MASTER CONTROLLER (EACH)	TRANSCEIVER FIBER OPTIC (EACH)	TRAFFIC SIGNAL POST GALVANIZED STEEL, 16 FT. (EACH)	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE		CONCRETE FOUNDATION			SIGNAL HEAD, POLYCARBONATE, L.E.D.				PED. SIGNAL HEAD POLYCARBONATE L.E.D., 1-FACE BRACKET MOUNTED (EACH)	TRAFFIC SIGNAL BACKPLATE LOUVERED FORMED PLASTIC (EACH)	INDUCTIVE LOOP DETECTOR (EACH)	* DETECTOR LOOP TYPE 1 (FOOT)	LIGHT DETECTOR (EACH)	LIGHT DETECTOR AMPLIFIER (EACH)	PEDESTRIAN PUSH-BUTTON (EACH)	ILLUMINATED SIGN LED MAST ARM MOUNTED (SQ FT)	UNINTERRUPTIBLE POWER SUPPLY, EXTENDED (EACH)
										1-FACE, 3-SECTION		1-FACE, 5-SECTION										
					42 FT. (EACH)	55 FT. (EACH)	TYPE A (SPECIAL) (FOOT)	TYPE C (FOOT)	TYPE E 36" DIA. (SPECIAL) (FOOT)	BRACKET MOUNTED (EACH)	MAST ARM MOUNTED (EACH)	BRACKET MOUNTED (EACH)	MAST ARM MOUNTED (EACH)									
STA 52+22 TO 52+42																	90					
STA 52+22 TO 52+42 RT																	74					
STA 52+47 TO 52+56 RT																	41					
STA 52+48 TO 52+68																	90					
STA 52+48 TO 52+68 RT																	74					
STA 52+59 - 55 LT						1			15		1		1		2			2			15	
STA 52+59 TO 52+67 RT																	42					
STA 52+61 - 73 RT	1	1	1					4											1			1
STA 52+67 - 57 LT																3						
STA 52+67 - 65 RT																4						
STA 52+67 TO 52+78 RT																	42					
STA 52+69 - 61 RT				1			4					1		2	1				2			
STA 52+73 - 67 LT				1			4					2		2	2				2			
STA 52+74 TO 52+94																	101					
STA 52+74 TO 52+94 RT																	84					
STA 52+76 TO 52+88 RT																	42					
STA 52+79 - 73 RT						1			15		1		2		3			2			10	
STA 52+80 - 92 RT																						
STA 52+84 TO 52+96 RT																	42					
STA 53+62 TO 53+73 LT																	63					
STA 53+62 TO 53+78 LT																	68					
STA 53+62 TO 53+82																	85					
STA 53+62 TO 53+82 LT																	72					
STA 53+67 - 63 RT				1			4			1		1			2							
STA 53+74 TO 53+85 LT																	43					
STA 53+77 - 45 RT																2						
STA 53+86 TO 53+95 LT																	30					
STA 53+88 TO 54+08																	73					
STA 53+88 TO 54+08 LT																	60					
STA 53+89 - 47 LT						1			15		1	1	1	2	3					2	10	
STA 53+92 - 45 RT					1				15		1	1	2	2	4					2	15	
STA 53+97 - 34 LT																4						
STA 54+14 TO 54+34																	73					
STA 54+14 TO 54+34 LT																	60					
STA 171+77 - 73 RT			1																			
STA 193+85 - 30 RT																1						
STA 193+85 TO 193+91 RT																	37					
STA 197+93 TO 198+13																	76					
STA 198+15 TO 198+35 RT																	81					
STA 198+19 TO 198+39																	86					
STA 198+45 TO 198+65																	84					
STA 199+38 TO 199+58																	102					
STA 199+64 TO 199+84																	100					
STA 199+85 TO 200+05 LT																	75					
STA 199+90 TO 200+10																	87					
STA 200+16 TO 200+36																	88					
STA 204+35 - 29 LT																1						
STA 204+35 TO 204+41 LT																	29					
STA 226+06 - 37 LT			1																			
TOTAL	**1**	**1**	**3**	**3**	**1**	**3**	**12**	**4**	**60**	**1**	**4**	**6**	**6**	**8**	**17**	**15**	**2194**	**4**	**1**	**8**	**50**	**1**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	12

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

SCHEDULE OF QUANTITIES

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	12
CHECKED BY:	SRM		41

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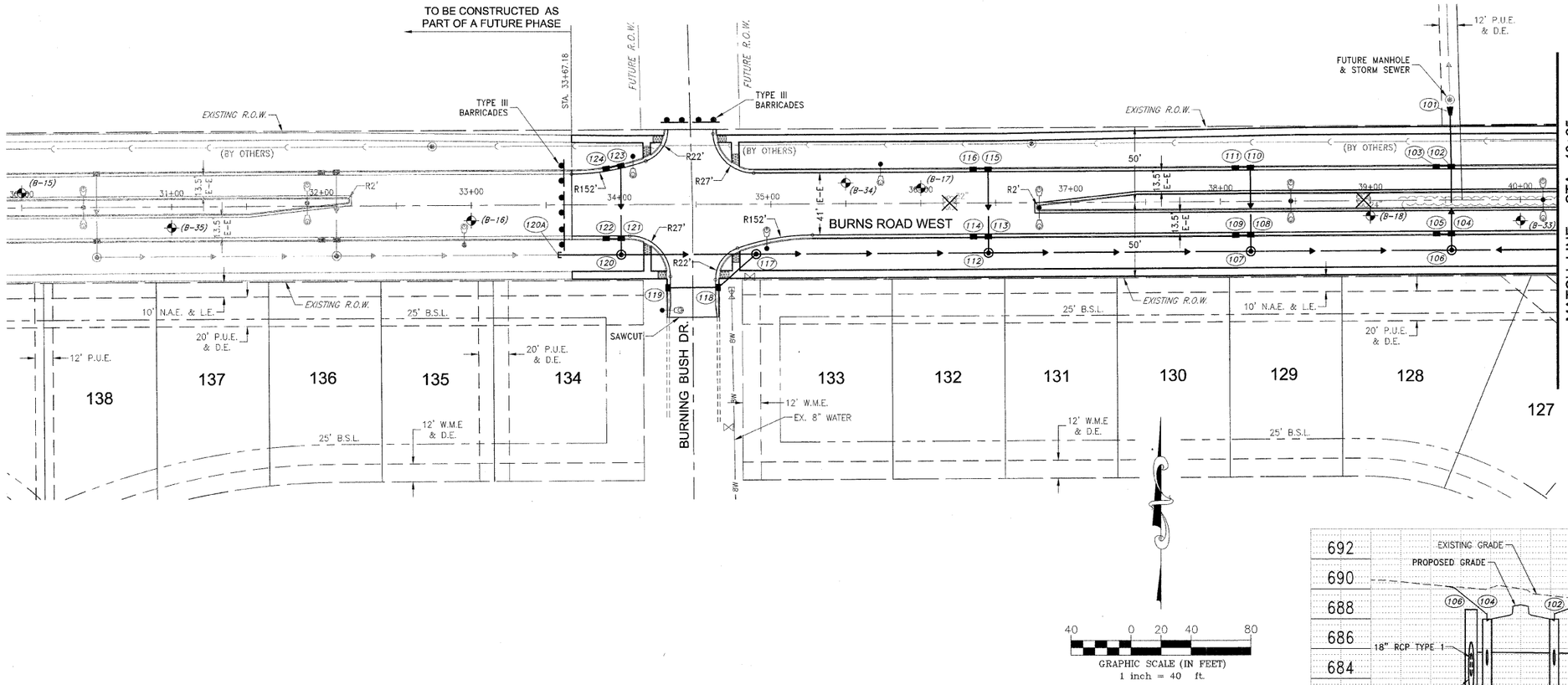

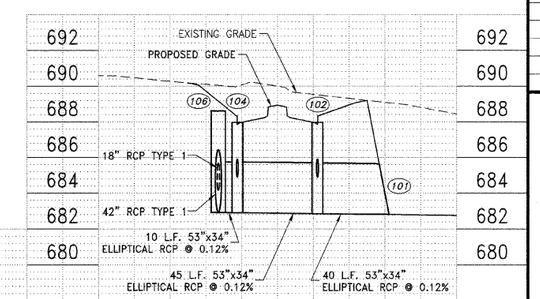

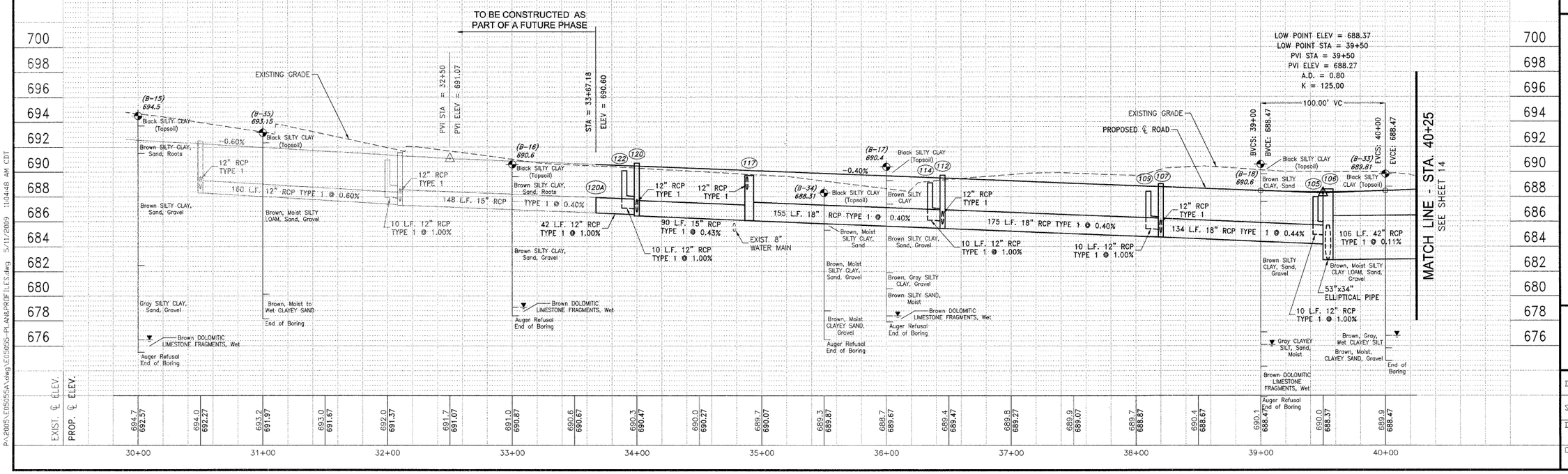

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	13

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS AND SURVEYORS
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1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

BURNS ROAD WEST
PLAN AND PROFILE
STA. 30+00 TO STA. 40+25

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07		JOB NO. E05055	
SCALE: HORZ.: 1"=40' VERT.: 1"=4'		FILE NO.	
DRAWN BY: MRG		SHEET 13	
CHECKED BY: SRM			41

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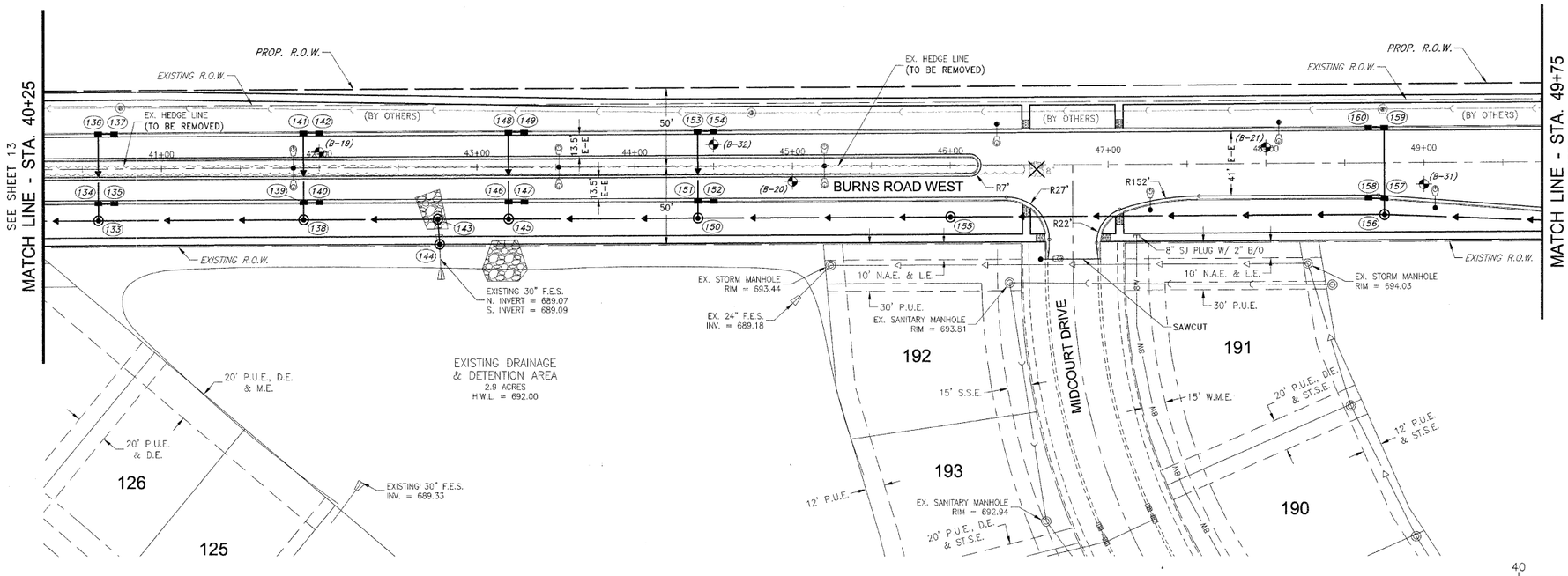
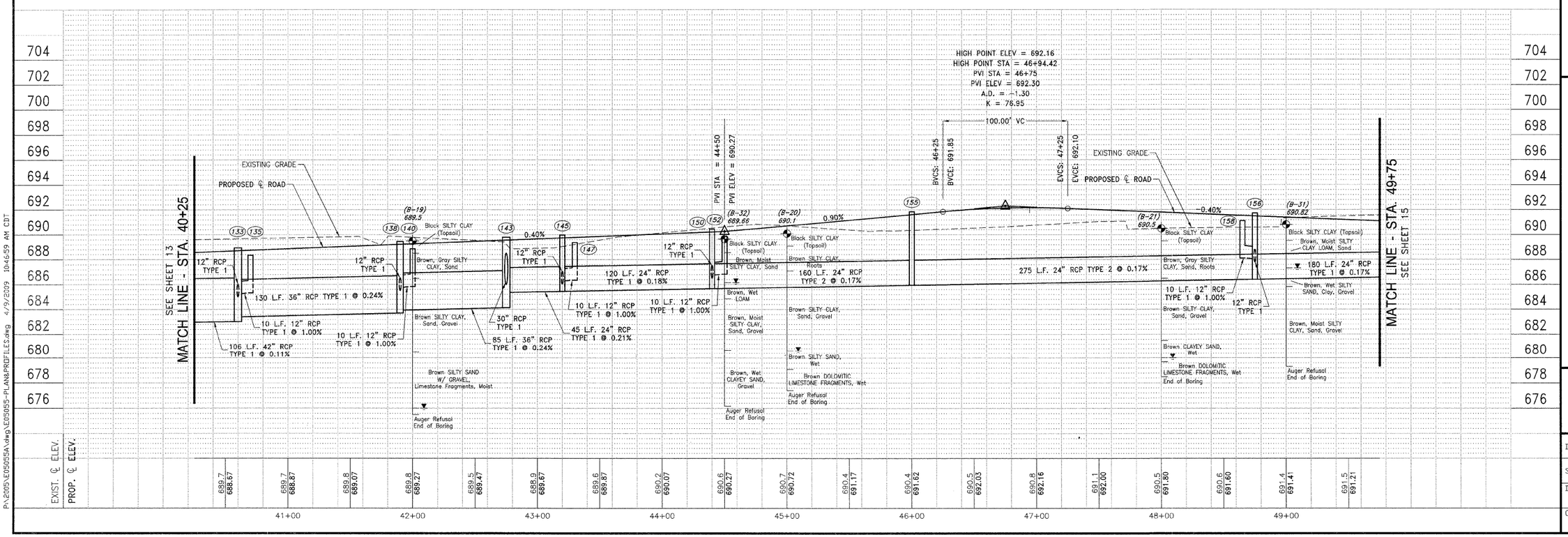
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	14

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP





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367 SOUTH SCHUYLER AVENUE
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NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

BURNS ROAD WEST
PLAN AND PROFILE
STA. 40+25 TO STA. 49+75

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: HORZ.: 1"=40' VERT.: 1"=4'	FILE NO.
DRAWN BY: MRG	SHEET 14
CHECKED BY: SRM	41

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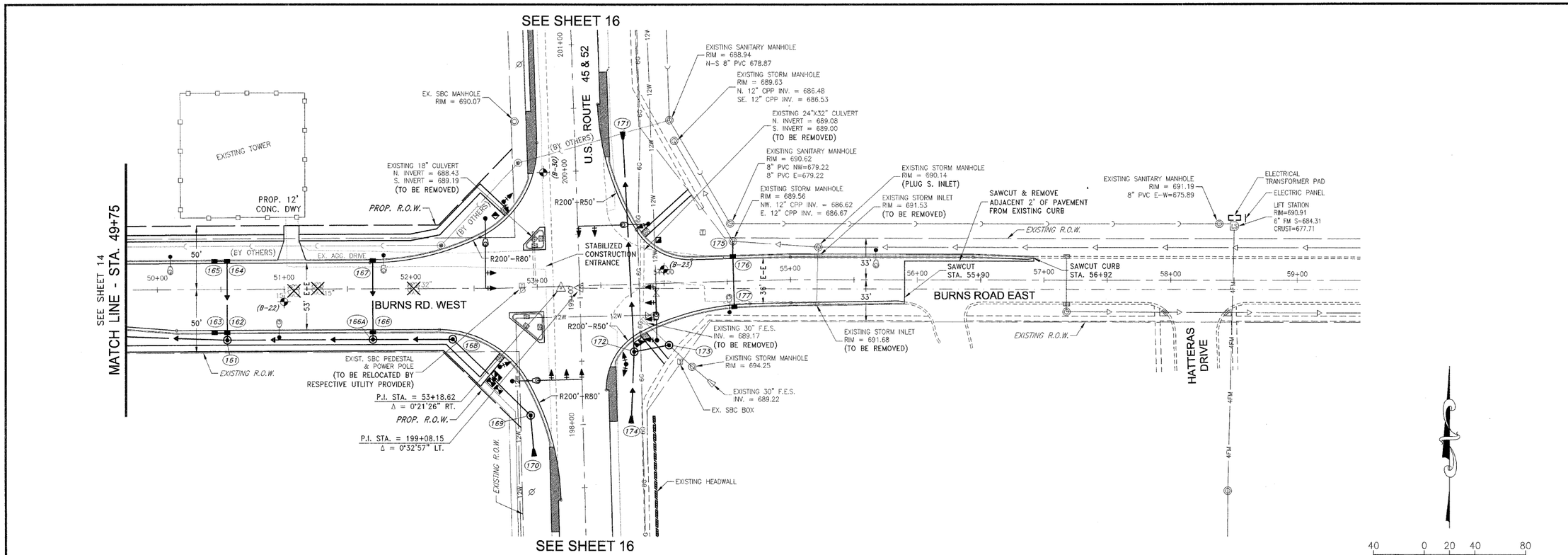

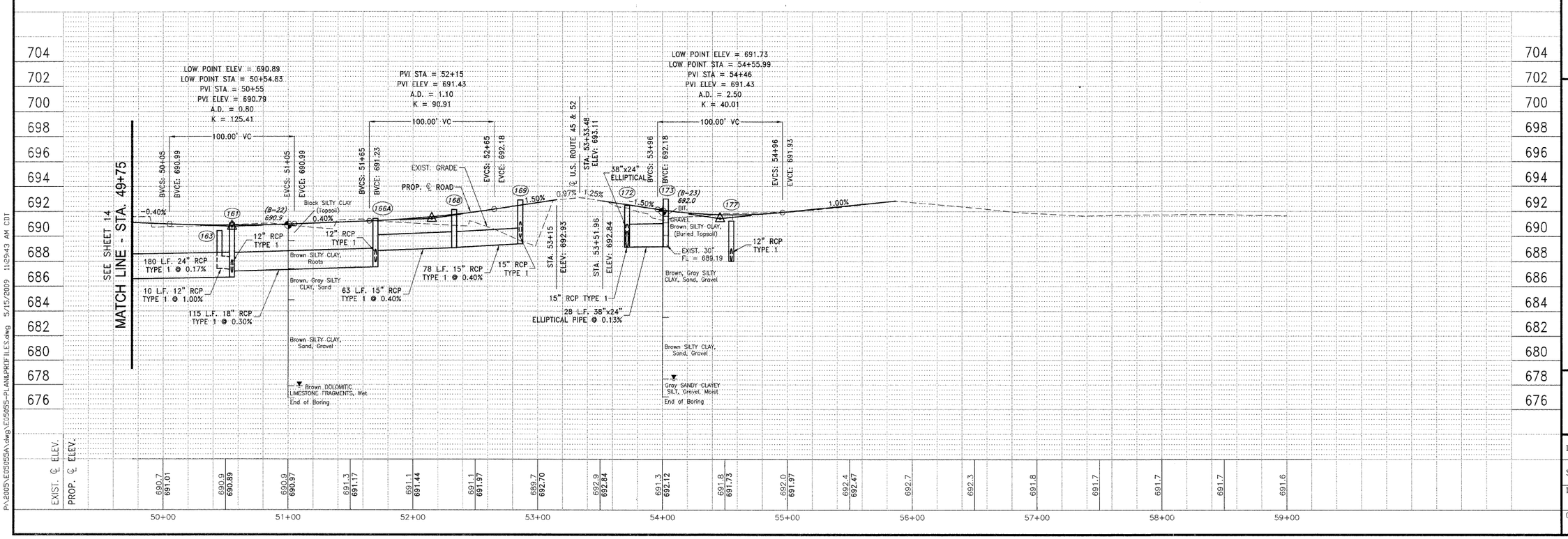

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	15

CONTRACT NO. 87414

FED. ROAD DIST. NO. | ILLINOIS | FED. A/D PROJECT

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS AND SURVEYORS
DESIGN FIRM LICENSE #184-001135
367 SOUTH SCHUYLER AVENUE
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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

BURNS ROAD WEST
PLAN AND PROFILE
STA. 49+75 TO STA. 59+00

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION 03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	HORZ.: 1"=40' VERT.: 1"=4'	FILE NO.	
DRAWN BY:	MRG	SHEET	15
CHECKED BY:	SRM		41

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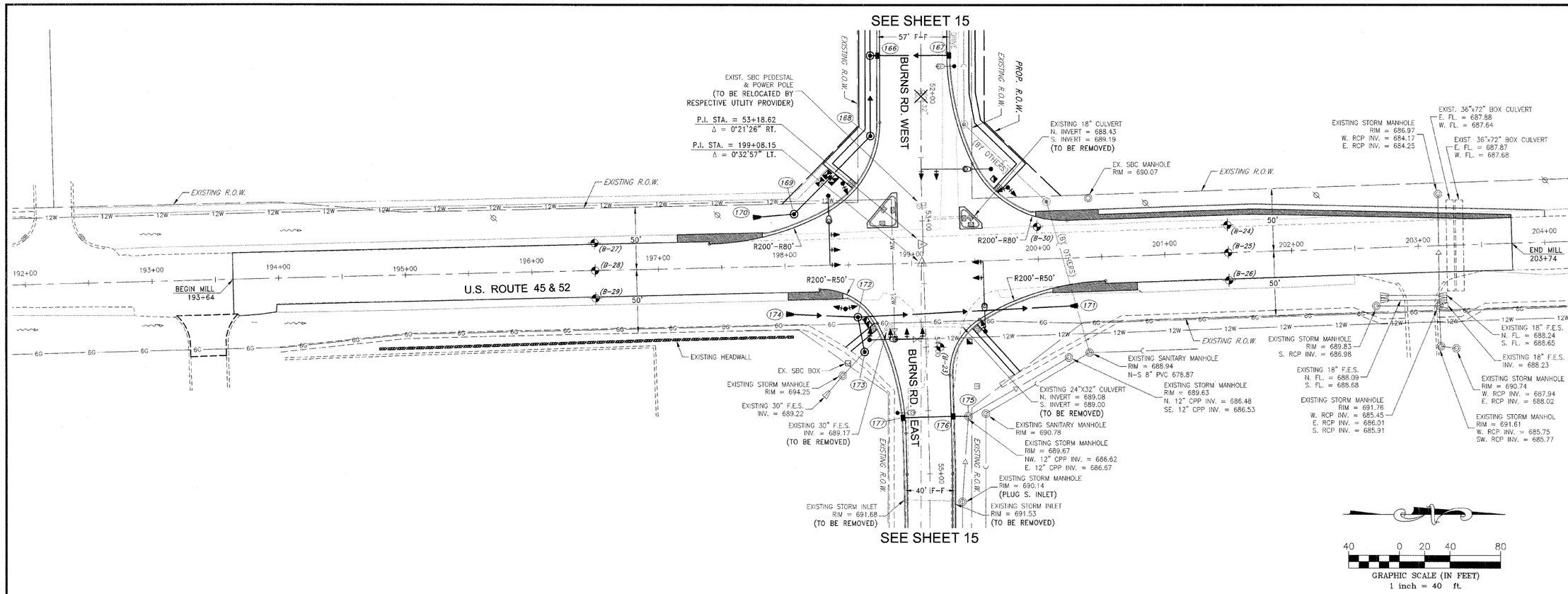

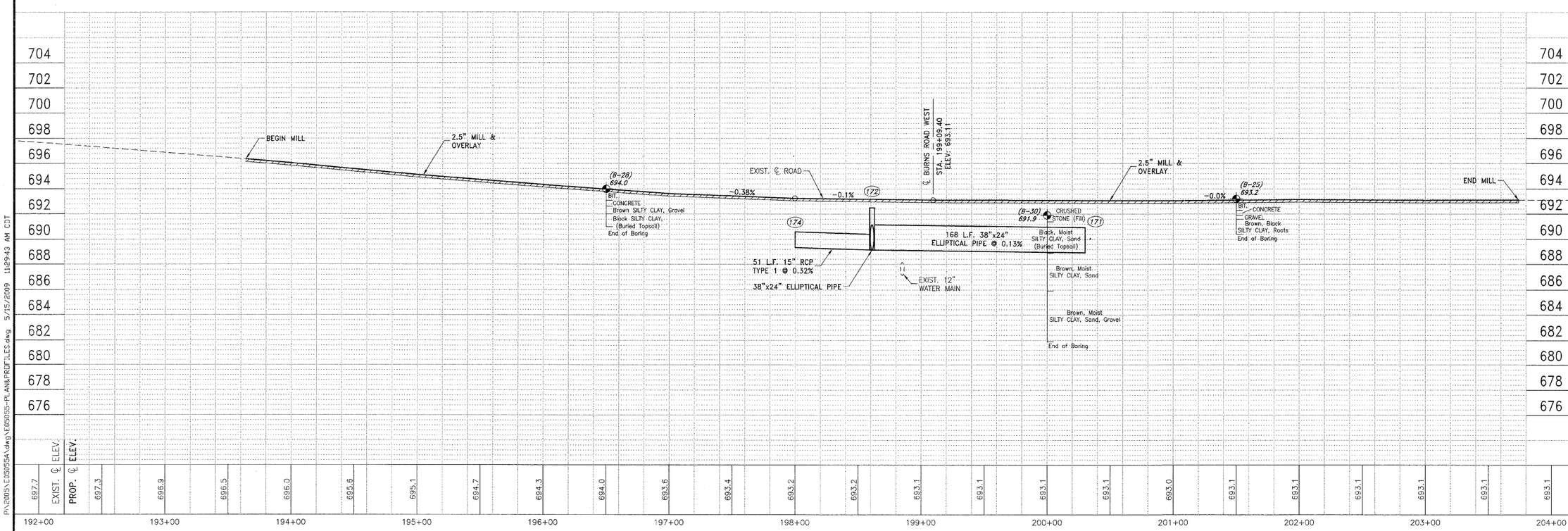

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	16

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

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LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
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NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

U.S. ROUTE 45/52
PLAN AND PROFILE
STA. 192+00 TO STA. 204+00

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION 03-00058-00-FP

DATE: 1/29/07		JOB NO. E05055	
SCALE:	HORZ.: 1"=40' VERT.: 1"=4'	FILE NO.	
DRAWN BY: MRG		SHEET 16	
CHECKED BY: SRM		41	

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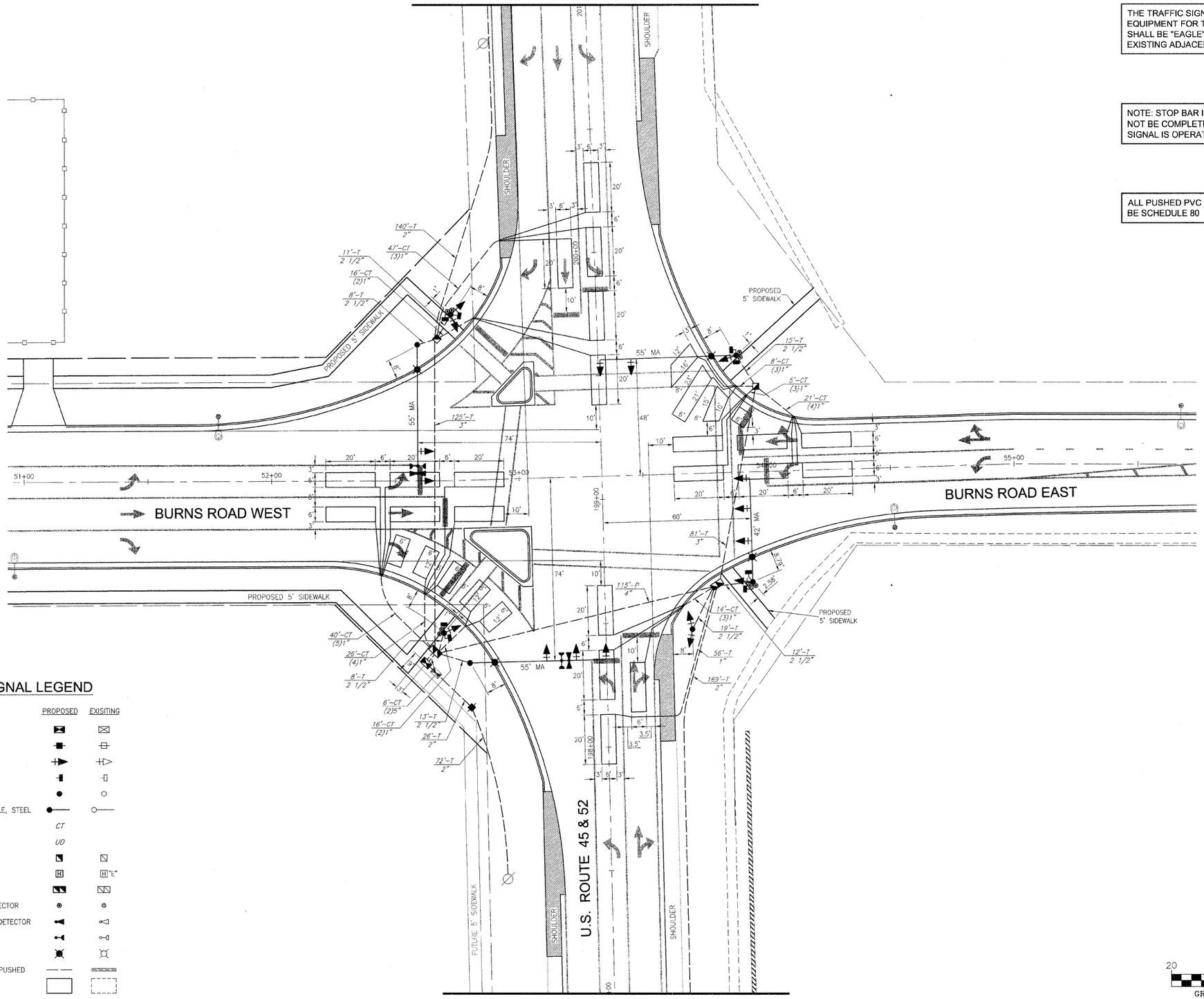
SEE SHEET 18

MATCH LINE - STA. 201+00

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

NOTE: STOP BAR INSTALLATION SHALL NOT BE COMPLETED UNTIL THE TRAFFIC SIGNAL IS OPERATIONAL

ALL PUSHED PVC CONDUIT SHALL BE SCHEDULE 80



MATCH LINE - STA. 197+00

SEE SHEET 18

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISITING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
COMMON TRENCH	CT	
UNIT DUCT	UD	
HANDHOLE		
HEAVY DUTY HANDHOLE	H	H"E"
DOUBLE HANDHOLE		
PEDESTRIAN PUSHBUTTON DETECTOR		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
STREET LIGHT		
PVC CONDUIT IN TRENCH OR PUSHED		
DETECTION LOOP		

20 0 10 20 40

GRAPHIC SCALE (IN FEET)
1 inch = 20 ft.

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	17

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

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2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

TRAFFIC SIGNAL PLAN

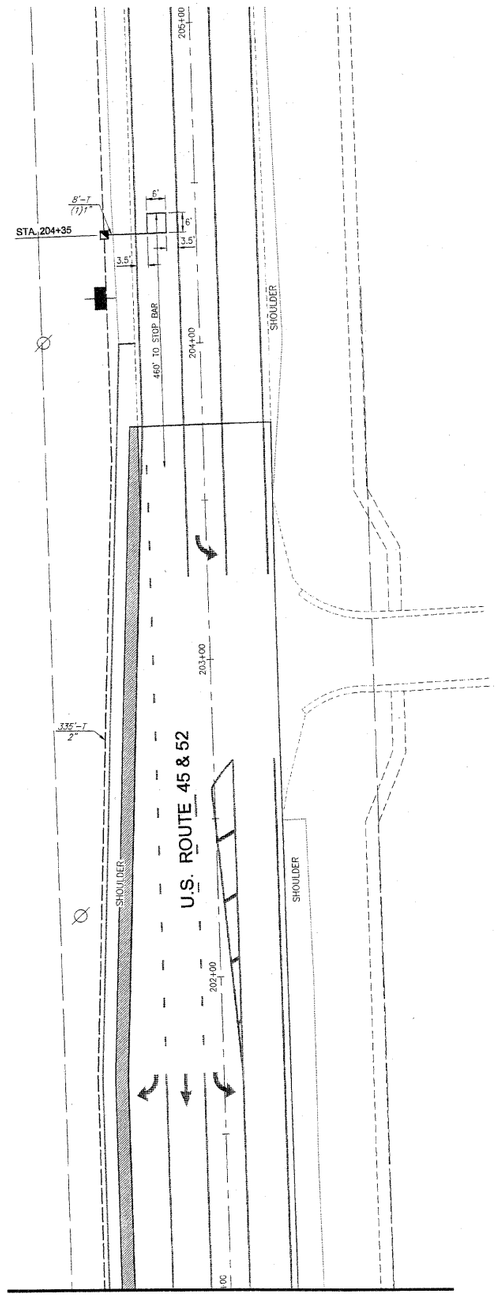
PROJECT:

PROPOSED IMPROVEMENTS FOR BURNS ROAD WEST

FROM BURNING BUSH DRIVE TO U.S. ROUTE 45/52

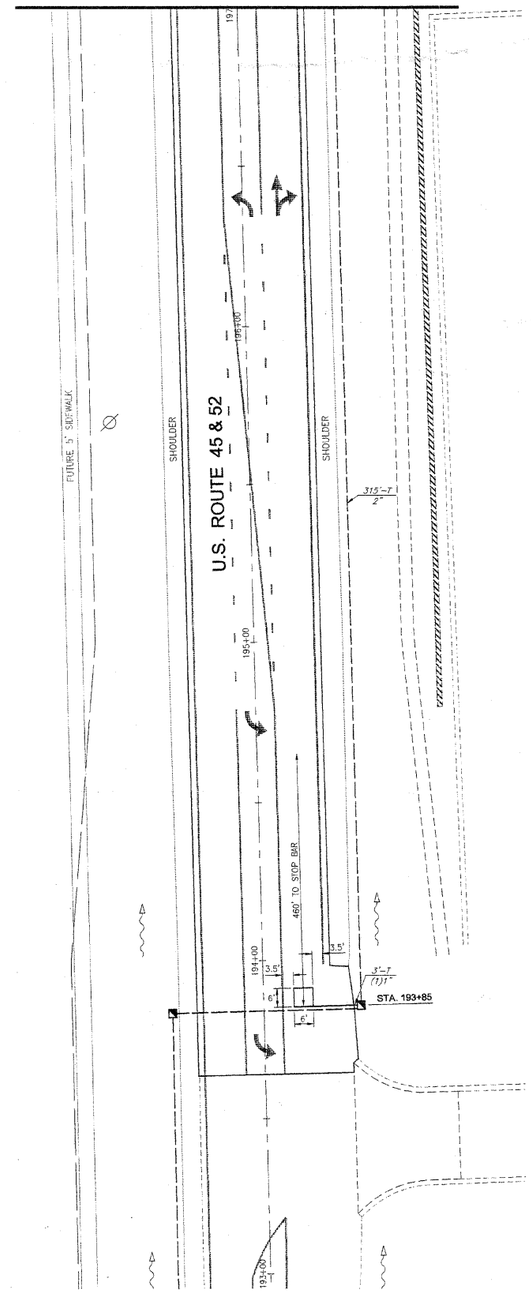
SECTION 03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	HORZ.: 1"=20' VERT.: N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	17
CHECKED BY:	SRM		41



MATCH LINE - STA. 201+00
SEE SHEET 17

SEE SHEET 17
MATCH LINE - STA. 197+00



TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISITING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
COMMON TRENCH	CT	
UNIT DUCT	UD	
HANDHOLE		
HEAVY DUTY HANDHOLE	H	H"E"
DOUBLE HANDHOLE		
PEDESTRIAN PUSHBUTTON DETECTOR		
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
STREET LIGHT		
PVC CONDUIT IN TRENCH OR PUSHED		
DETECTION LOOP		

20 0 10 20 40
GRAPHIC SCALE (IN FEET)
1 inch = 20 ft.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	18

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
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NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

TRAFFIC SIGNAL PLAN

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: HORZ.: 1"=20' VERT.: N/A	FILE NO.
DRAWN BY: MRG	SHEET 18
CHECKED BY: SRM	41

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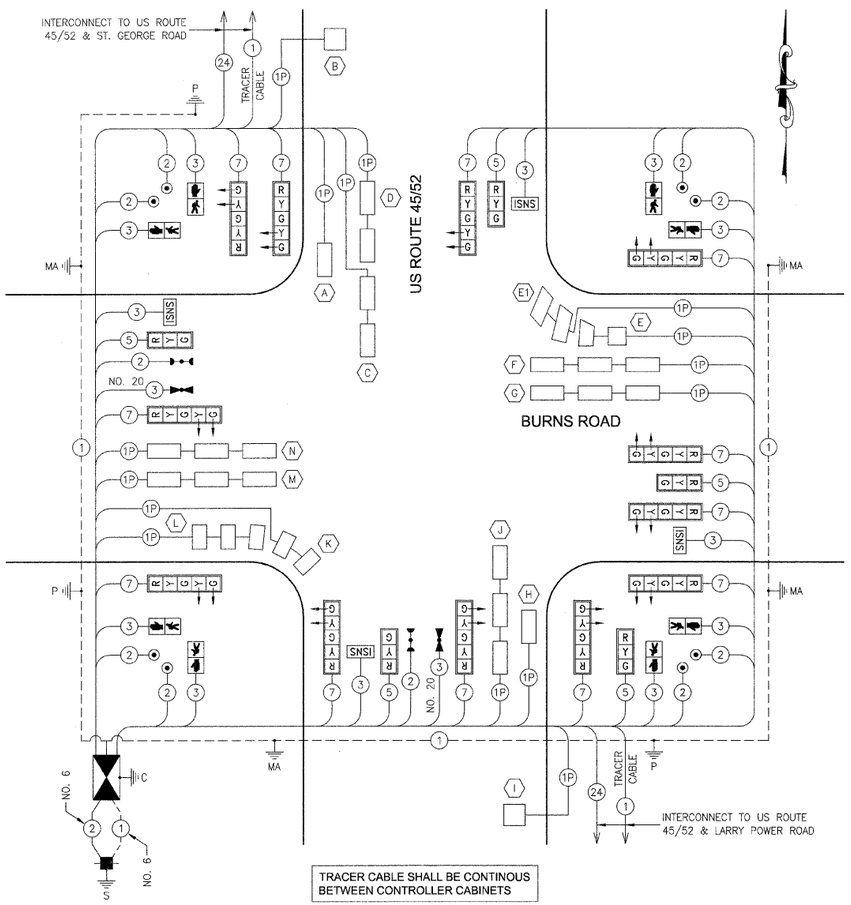
CABLE PLAN

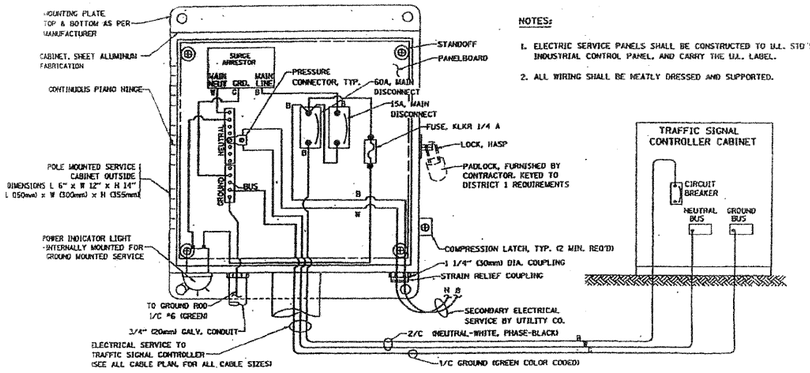


TRACER CABLE SHALL BE CONTINOUS BETWEEN CONTROLLER CABINETS

CABLE PLAN LEGEND

EXISITING	PROPOSED	
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		PEDESTRIAN PUSHBUTTON DETECTOR
		EMERGENCY VEHICLE SYSTEM DETECTOR
		CONFIRMATION BEACON
ISNS	ISNS	ILLUMINATED STREET NAME SIGN
		DETECTION LOOP
2	2	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO.14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
R Y G G "P"	R Y G Y G "P"	SIGNAL FACE WITH BACKPLATE "P" INDICATES PROGRAMMED HEAD
H/C	H/C	GROUND ROD AT HANDHOLE, DOUBLE HANDHOLE, OR CONTROLLER
P/MA	P/MA	GROUND ROD AT POST OR MAST ARM POLE
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
1	1	GROUND CABLE IN CONDUIT, NO.6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 2MM12F & SM12F

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM

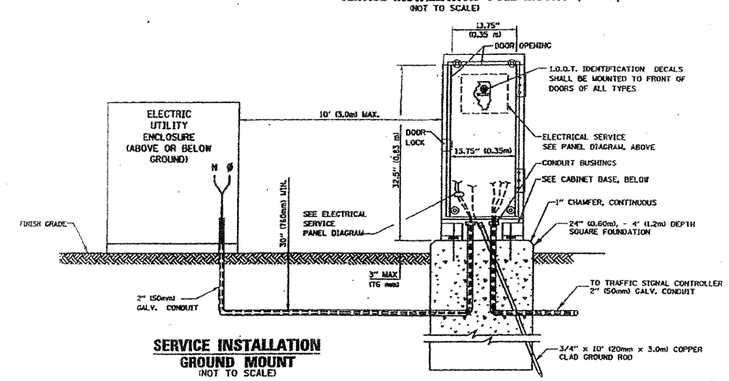


NOTES:

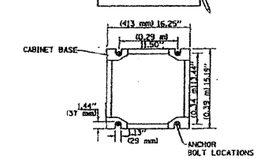
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508. INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)
(NOT TO SCALE)



SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)

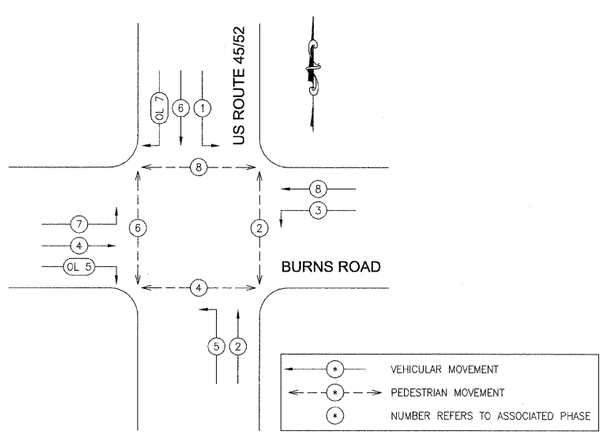


CABINET – BASE BOLT PATTERN
(NOT TO SCALE)

DETECTOR LOOP INDUCTANCE CHART					
LOOP SYSTEM	LABEL	TURNS	INDUCTANCE (MICROHENRIES)	FREQUENCY (HERTZ)	J PIN STATUS
A	O6 SB STBR	4	293	35656	OFF
B	O6 SB FAR	6	389.7	30917	ON
C	O1 SB LT FR	3	345	32859	ON
D	O1SB LT BK	3	345	32859	ON
E	O8 WB STBR RL FR	4	356	32347	ON
E1	O8 WB STBR RL	3	336	33296	ON
F	O8 WB STBR CL	3	518.2	26811	ON
G	O8 WB LT	3	518.2	26811	ON
H	O2 NB STBR	4	290.4	35815	OFF
I	O2 SB FAR	6	388.2	30977	ON
J	O2 NB LT	3	498.4	27338	ON
K	O4 EB STBR RL FR	4	364	31990	ON
L	O4 EB STBR RL BK	4	544	26168	ON
M	O4 EB STBR CL	3	472	28093	ON
N	O4 EB LT	3	472	28093	ON

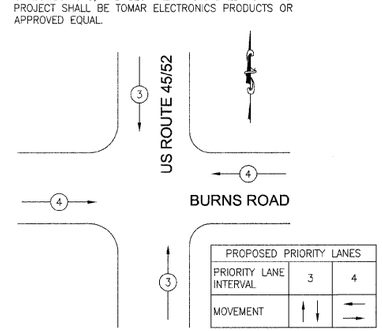
J PIN STATUS:
"ON" MEANS STANDARD DETECTOR SETUP
"OFF" MEANS THE J WIRE HAS BEEN DISCONNECTED, BUT INTACT AT THE HARNESS PANEL WITH THE NECESSARY SPADE CONNECTION ATTACHED, MARKED, AND INSULATED

REFERING TO STANDARD 857001 THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED BELOW: (SHOW MOVEMENTS AND PHASE NUMBERS)



PHASE DESIGNATION DIAGRAM

TO ASSURE COMPATIBILITY WITH EXISTING EMERGENCY VEHICLE PREEMPTION EQUIPMENT WITHIN THE VILLAGE OF BOUBONNAIS, THE EQUIPMENT FURNISHED FOR THIS PROJECT SHALL BE TOMAR ELECTRONICS PRODUCTS OR APPROVED EQUAL.



PROPOSED PRIORITY LANES		
PRIORITY LANE INTERVAL	3	4
MOVEMENT	↑ ↓	← →

EMERGENCY VEHICLE PREEMPTION SEQUENCE

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS US ROUTE 45/52 & BURNS ROAD					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	17		17	0.50	144.50
(YELLOW)	17		25	0.25	106.25
(GREEN)	17		15	0.25	63.75
ARROW	24		12	0.10	28.80
PED. SIGNAL	8		25	1.00	200.00
CONTROLLER	1		100	1.00	100.00
STREET SIGNS	4		2W/SF	0.50	93.00
FLASHER	0				0
				TOTAL =	736.30

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	19

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

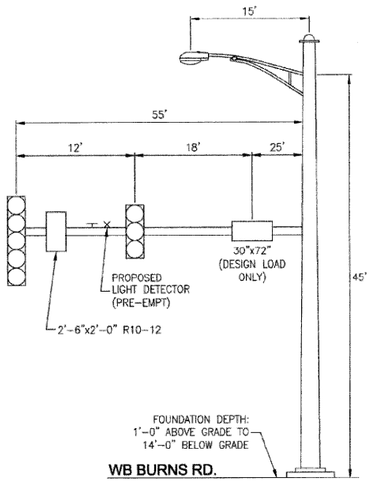
TRAFFIC SIGNAL DETAILS

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

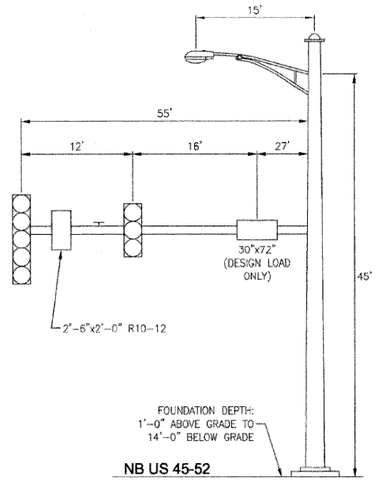
SECTION 03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	19
CHECKED BY:	SRM		41

P:\2005\E05055A\dwg\E05055-TRAFFIC DETAILS.dwg 4/9/2009 11:10:05 AM CDT



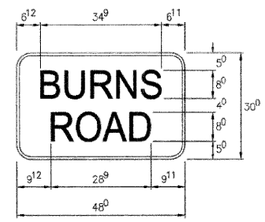
MAST ARM LOADING DETAIL
NW QUAD. @ US 45-52 & BURNS RD.
(NOT TO SCALE)



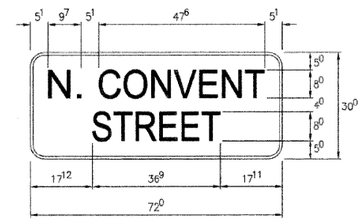
MAST ARM LOADING DETAIL
NE QUAD. @ US 45-52 & BURNS RD.
(NOT TO SCALE)

PROPOSED STREET NAME SIGNS

(NOT TO SCALE)
FRACTIONS SHOWN ARE SIXTEENTHS OF AN INCH

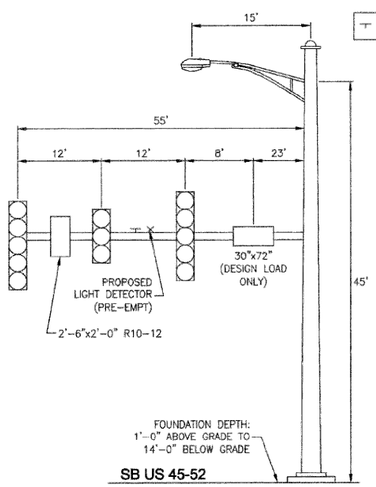


ILLUMINATED SIGN, LED, MAST ARM MOUNTED
2 EACH REQUIRED
10.00 SQ.FT. EACH
WHITE/GREEN BACKGROUND
8" SERIES D LETTERS



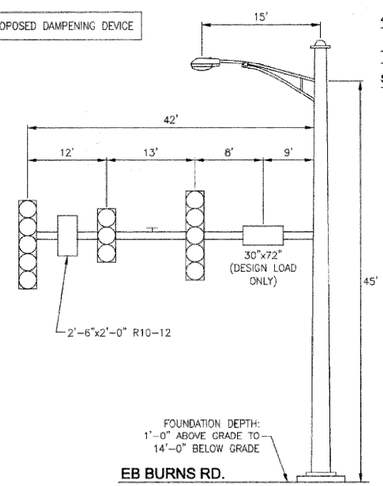
ILLUMINATED SIGN, LED, MAST ARM MOUNTED
2 EACH REQUIRED
15.00 SQ.FT. EACH
WHITE/GREEN BACKGROUND
8" SERIES D LETTERS

THESE STREET NAME SIGNS SHALL BE PLACED ON THE MAST ARMS PARALLEL TO THE RESPECTIVE ROUTE AS DESIGNATED BY THE ENGINEER.



MAST ARM LOADING DETAIL
SW QUAD. @ US 45-52 & BURNS RD.
(NOT TO SCALE)

⊤ = PROPOSED DAMPENING DEVICE

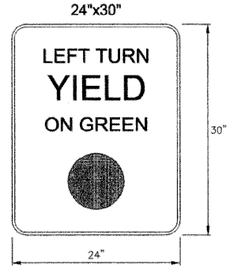


MAST ARM LOADING DETAIL
SE QUAD. @ US 45-52 & BURNS RD.
(NOT TO SCALE)

4 SIGNS REQUIRED - 5 SQ.FT. EACH
TYPE A SHEETING REQUIRED

THIS SIGN SHALL BE LOCATED 6" TO 12" TO THE RIGHT OF EACH 5 SECTION MAST MOUNTED LEFT TURN SIGNAL.

R10-12
24"x30"



NOTES:
ALL MAST ARM FOUNDATIONS TO BE 38" DIAMETER. THE LIGHT FIXTURE ON THE COMBINATION MAST ARM SHALL BE ATTACHED TO A 15 FOOT MAST ARM AS SHOWN ON THESE DRAWINGS. LIGHT FIXTURES ARE TO BE 400 WATT HIGH PRESSURE SODIUM. ALL LIGHTING ARMS TO BE PARALLEL TO THE SIGNAL MAST ARM.

ALL SIGNAL HEADS SHALL HAVE BACKPLATES.

THE DAMPENING DEVICE SHALL CONSIST OF A 24" X 36" TYPE 1 UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF THE MAST ARM WITH THE 36" LENGTH PERPENDICULAR TO THE ARM. THE COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.

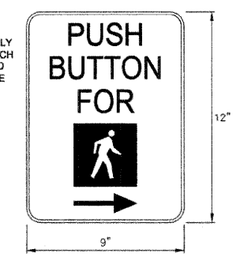
PEDESTRIAN PUSH BUTTON SIGN
TYPE R10-4B (L OR R)

(NOT TO SCALE)

THE CONTRACTOR SHALL SUPPLY AND MOUNT ONE SIGN WITH EACH PEDESTRIAN PUSH BUTTON AND THIS SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH BUTTON PAY ITEM

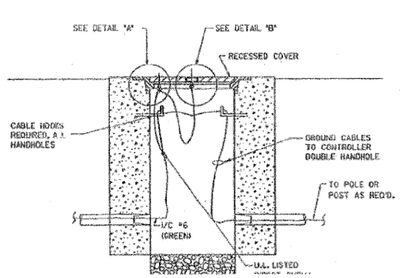
COLORS

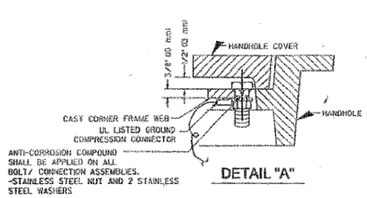
LEGEND - BLACK
BACKGROUND - WHITE



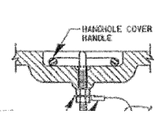
GENERAL NOTES:

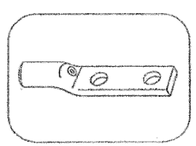
1. THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE NOTIFIED AT 815 434-8446 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS. CONTACT TOM SCHAEFER AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION AT LEAST 72 HOURS IN ADVANCE IN ORDER TO CHANGE INTERSECTION SIGNS TO SIGNAL AHEAD SIGNS.
2. ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.
3. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED SIGNAL HEAD PAY ITEMS.
4. A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED IN THE COST OF CONDUIT PAY ITEMS.
5. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. COST TO BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.
6. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
7. ALL MAST ARM MOUNTED SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE RED INDICATIONS ARE LEVEL WITH EACH OTHER.
8. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
9. ALL THREADS OF BOLTS USED IN ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND SIMILAR TO LEAD PLATE PRIOR TO ASSEMBLY.
10. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED TO THE SATISFACTION OF THE ENGINEER.
11. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED, CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
12. ALL SIGNAL BASES SHALL BE LOCATED A MINIMUM OF 6' FROM THE FACE OF CURB UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
13. ALL NEW TRAFFIC AND PEDESTRIAN SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES OR HANDHOLES WILL NOT BE ALLOWED.
14. LOOPS IN SAME LANE SHALL BE WOUND CLOCKWISE & COUNTERCLOCKWISE IN ALTERNATING ORDER. LOOPS IN ADJACENT LANES SHALL BE WOUND ALL THE SAME.
15. THE PROPOSED TRAFFIC SIGNAL CONTROL CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT AS INCIDENTAL TO THE CONTROL CABINET PAY ITEM. A SELF ADHERING PHASING DIAGRAM SHALL BE PLACED INSIDE THE CABINET DOOR.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNAL AND STREET LIGHTING. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
17. ALL DETECTOR LOOP AMPLIFIERS SHALL BE CARD RACK MOUNTED AND FURNISHED WITH PLASTIC TAGS LABELED WITH RESPECTIVE PHASES AND DIRECTION AS LISTED IN THE DETECTOR LOOP CHART. MINIMUM TAG SIZE OF 3/8" x 3/4". TAGS SHALL BE MADE OF MATERIAL THAT DOES NOT ALLOW WRITING TO FADE OVER TIME.
18. THE LENGTH OF DETECTOR LOOP CABLE FROM THE CURB TO THE JUNCTION BOX OR HANDHOLE IS INCIDENTAL TO THE DETECTOR LOOP PAY ITEM.
19. DOUBLE BREAKAWAY FUSED FUSE HOLDERS AND SURGE ARRESTORS ARE TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR IN THE BASE OF THE COMBINATION MAST ARMS AS INCIDENTAL TO THE LIGHT FIXTURE PAY ITEM.
20. THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN CAN SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS OF THE CABINET.
21. BACKPLATES SHALL BE POLYCARBONATE WITH DEEP BACK FLANGES.
22. THE CONTROLLER SHALL BE TS1 AND TS2 COMPATIBLE.
23. ALL GROUNDING MATERIALS FOR TRAFFIC SIGNAL CONCRETE FOUNDATIONS SHALL REFER TO SECTION 806 IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007.
24. THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION.
25. LABEL DIRECTION AND ASSIGNMENT NUMBER ON FIBER OPTIC CABLE.
26. A SELF ADHERING PHASING DIAGRAM SHALL BE PLACED INSIDE THE CABINET DORR.
27. ALL PEDESTRIANS PUSH BUTTONS SHALL BE "BULLDOG" A MODEL MADE BY "EAGLE".
28. STEEL COMBINATION MAST ARM ASSEMBLY AND POLE TO INCLUDE 15' TRUSS ARM FOR LUMINAIRE (SEE LIGHTING DETAIL).
29. ALL UNINTERRUPTIBLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.



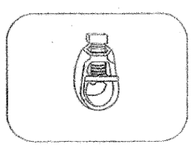


DETAIL "A"

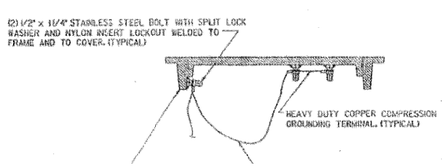




HEAVY-DUTY COMPRESSION TERMINAL
(BURNDY TYPE YGHA OR APPROVED EQUAL)

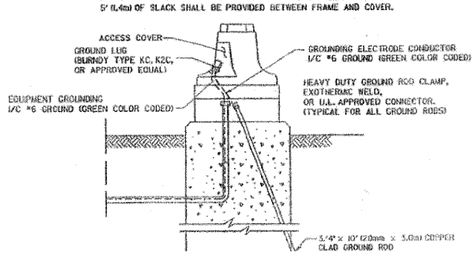


3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP
(BURNDY TYPE GRC OR APPROVED EQUAL)



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.6m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



NOTES:

GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION, AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	20

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS AND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

TRAFFIC SIGNAL DETAILS

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: N/A	FILE NO.

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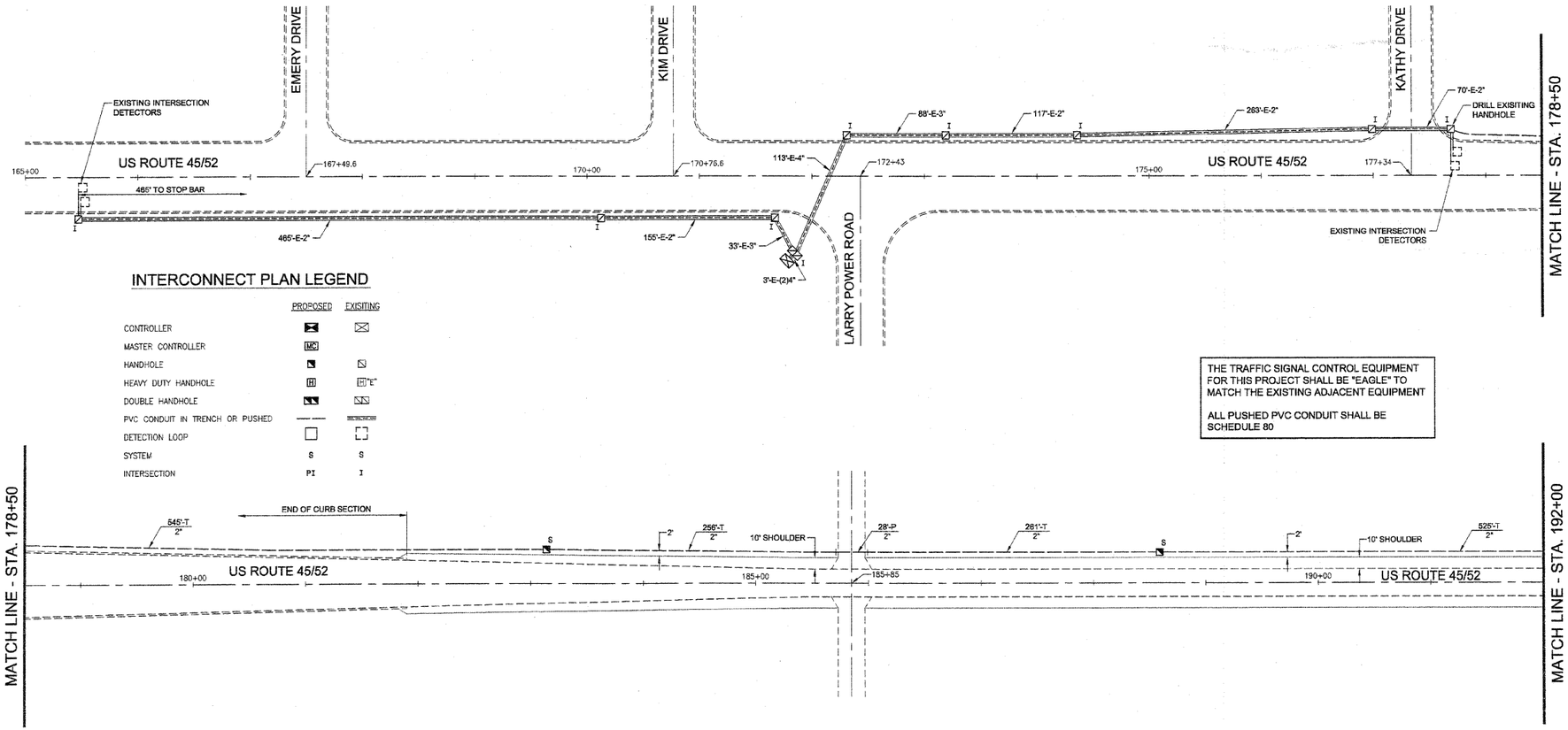
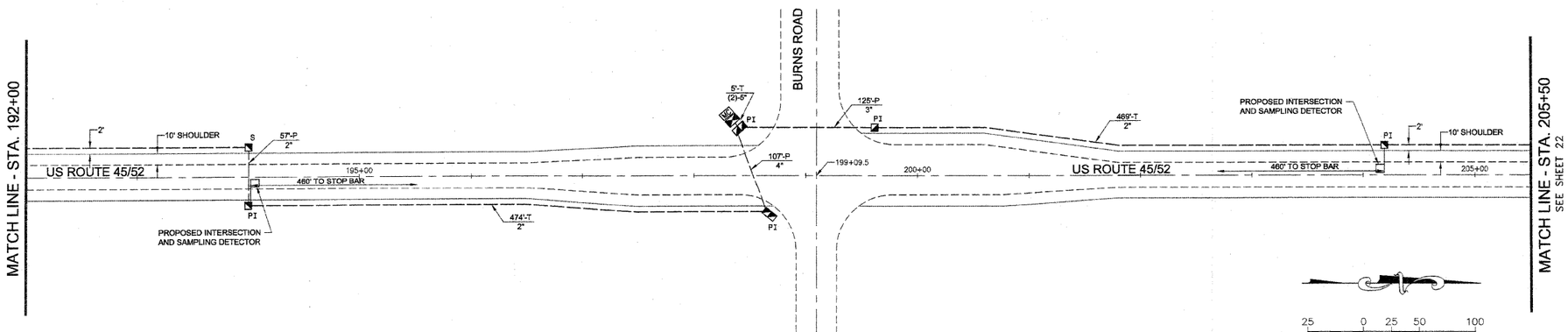


INTERCONNECT PLAN LEGEND

	PROPOSED	EXISITING
CONTROLLER		
MASTER CONTROLLER	MC	
HANDHOLE		
HEAVY DUTY HANDHOLE	H	H "E"
DOUBLE HANDHOLE		
PVC CONDUIT IN TRENCH OR PUSHED		
DETECTION LOOP		
SYSTEM	S	S
INTERSECTION	PI	I

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT EQUIPMENT

ALL PUSHED PVC CONDUIT SHALL BE SCHEDULE 80



25 0 25 50 100
GRAPHIC SCALE (IN FEET)
1 inch = 50 ft.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	21

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

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2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

INTERCONNECT CONDUIT PLAN

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: HORZ.: 1"=50' VERT.: N/A	FILE NO.
DRAWN BY: MRG	SHEET 21
CHECKED BY: SRM	41

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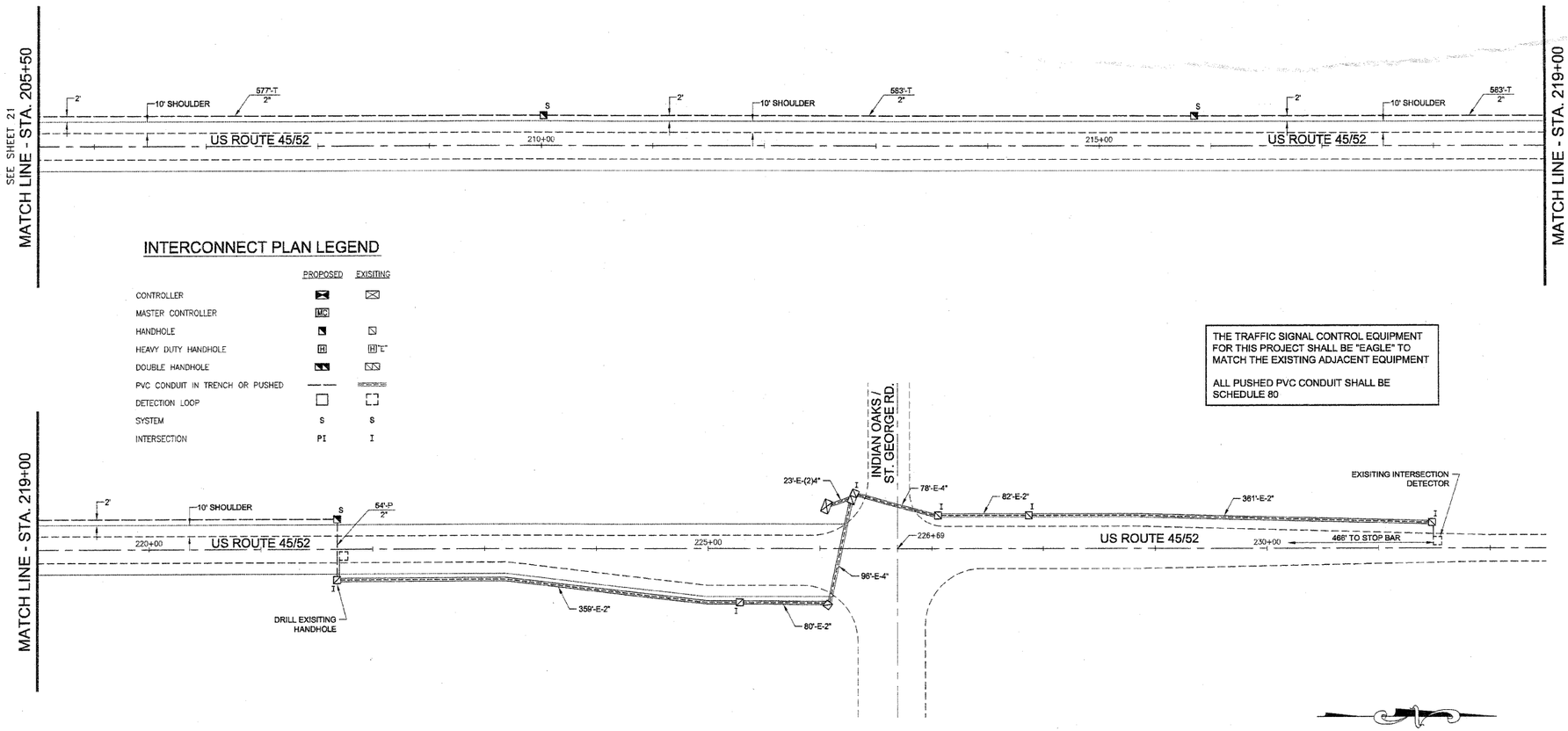


INTERCONNECT PLAN LEGEND

	PROPOSED	EXISITING
CONTROLLER		
MASTER CONTROLLER	MC	
HANDHOLE		
HEAVY DUTY HANDHOLE	H	H "E"
DOUBLE HANDHOLE		
PVC CONDUIT IN TRENCH OR PUSHED		
DETECTION LOOP		
SYSTEM	S	S
INTERSECTION	PI	I

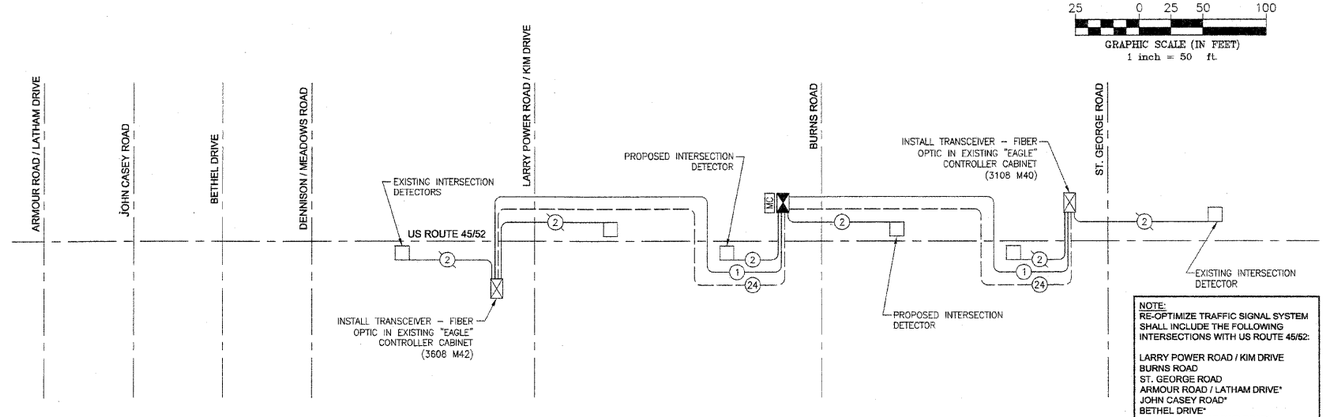
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT EQUIPMENT

ALL PUSHED PVC CONDUIT SHALL BE SCHEDULE 80

25 0 25 50 100
GRAPHIC SCALE (IN FEET)
1 inch = 50 ft.

INTERCONNECT SCHEMATIC LEGEND

- PROPOSED INTERSECTION CONTROLLER
- EXISTING INTERSECTION CONTROLLER
- MC — PROPOSED MASTER CONTROLLER
- PROPOSED INTERSECTION & SAMPLING DETECTOR
- (24) — PROPOSED INTERCONNECT CABLE – NO.62.5/125 2 MM 12F & SM 12F – FIBER OPTIC CABLE
- (2) — PROPOSED LOOP DETECTOR CABLE – 2/C TWISTED, SHIELDED
- (2) — EXISTING LOOP DETECTOR CABLE – 2/C TWISTED, SHIELDED
- (1) — PROPOSED TRACER CABLE NO. 14 1/C



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT EQUIPMENT

NOTE:
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM SHALL INCLUDE THE FOLLOWING INTERSECTIONS WITH US ROUTE 45/52:

LARRY POWER ROAD / KIM DRIVE
BURNS ROAD
ST. GEORGE ROAD
ARMOUR ROAD / LATHAM DRIVE*
JOHN CASEY ROAD*
BETHEL DRIVE*
DENNISON / MEADOWS ROAD*

*DATA FROM 2008 REPORT CAN BE USED

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	22

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

INTERCONNECT CONDUIT PLAN & SCHEMATIC

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: HORZ.: 1"=50' VERT.: N/A	FILE NO.
DRAWN BY: MRG	SHEET 22
CHECKED BY: SRM	41

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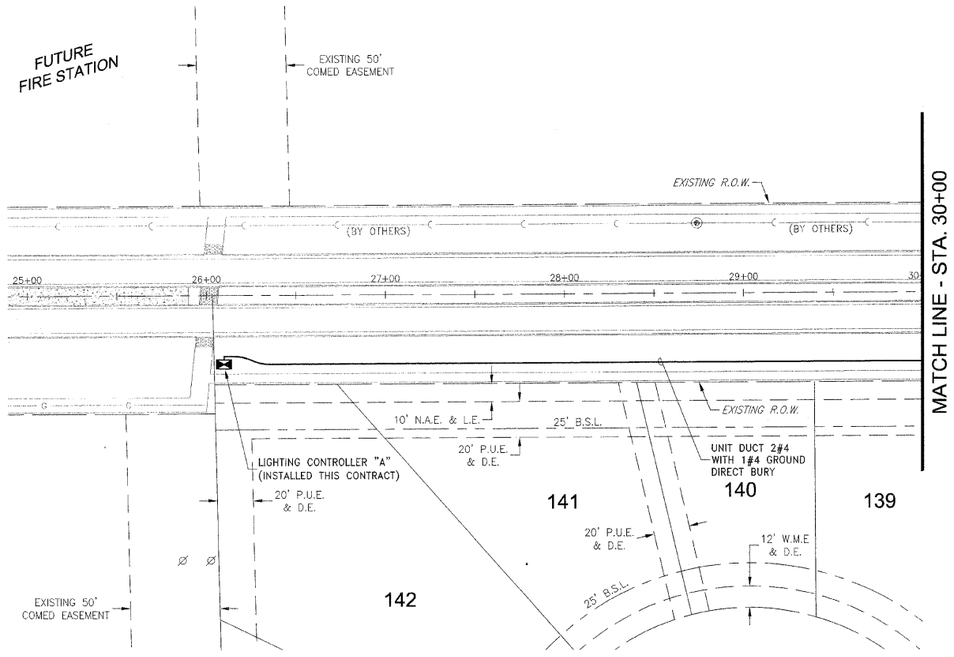

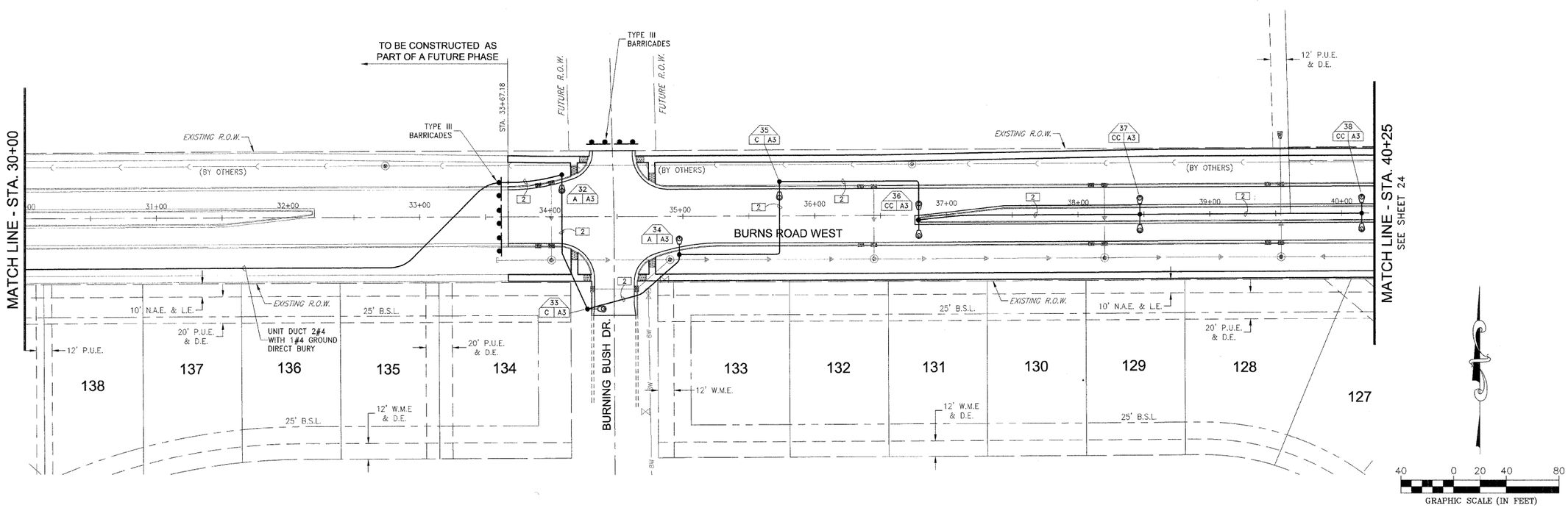

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	23

CONTRACT NO. 87414

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

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3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

LIGHTING INSTALLATION PLAN

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION 03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	HORZ.: 1"=40' VERT.: N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	23
CHECKED BY:	SRM		41

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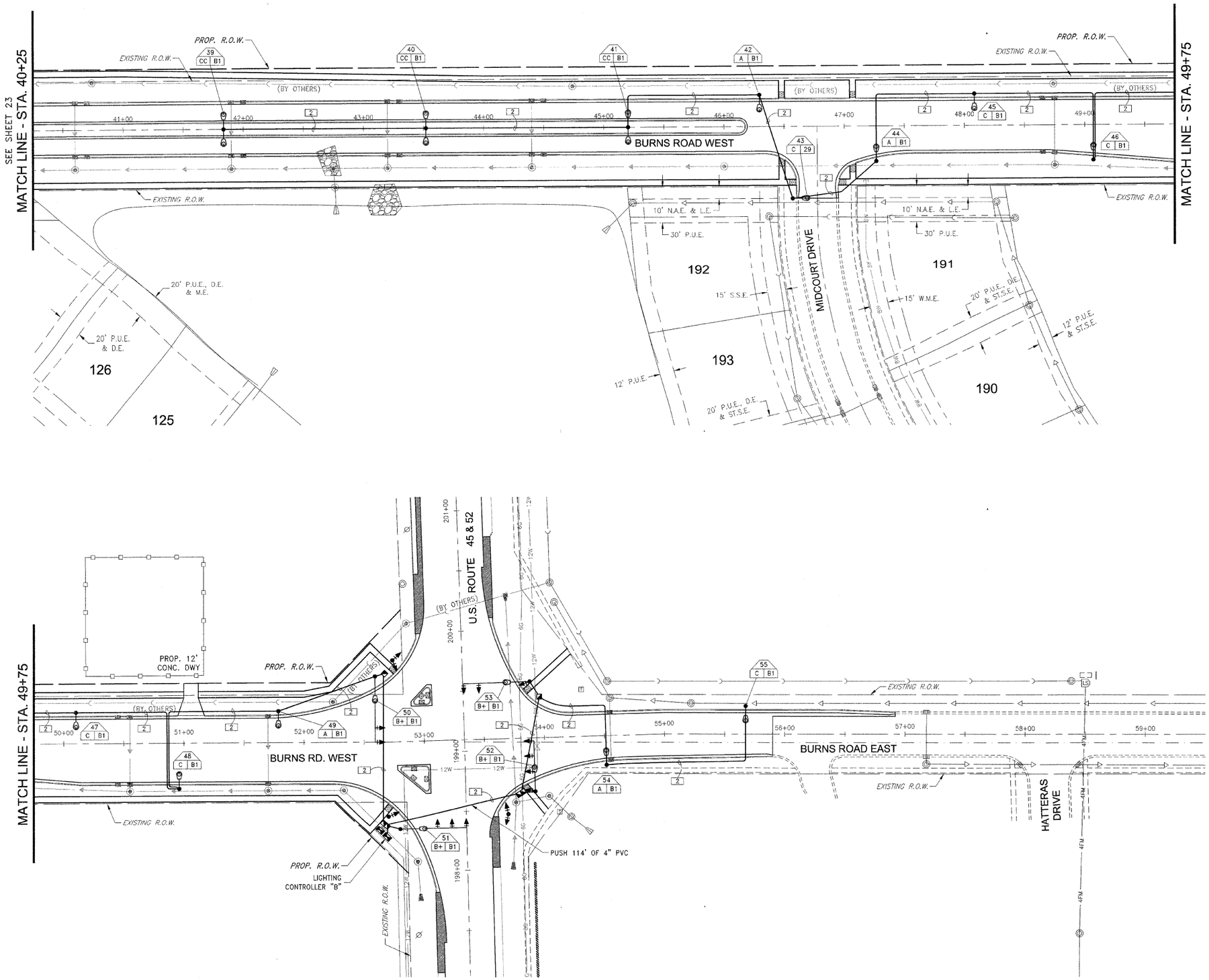

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	24

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

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3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

LIGHTING INSTALLATION PLAN

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION 03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	HORZ.: 1"=40' VERT.: N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	24
CHECKED BY:	SRM		41

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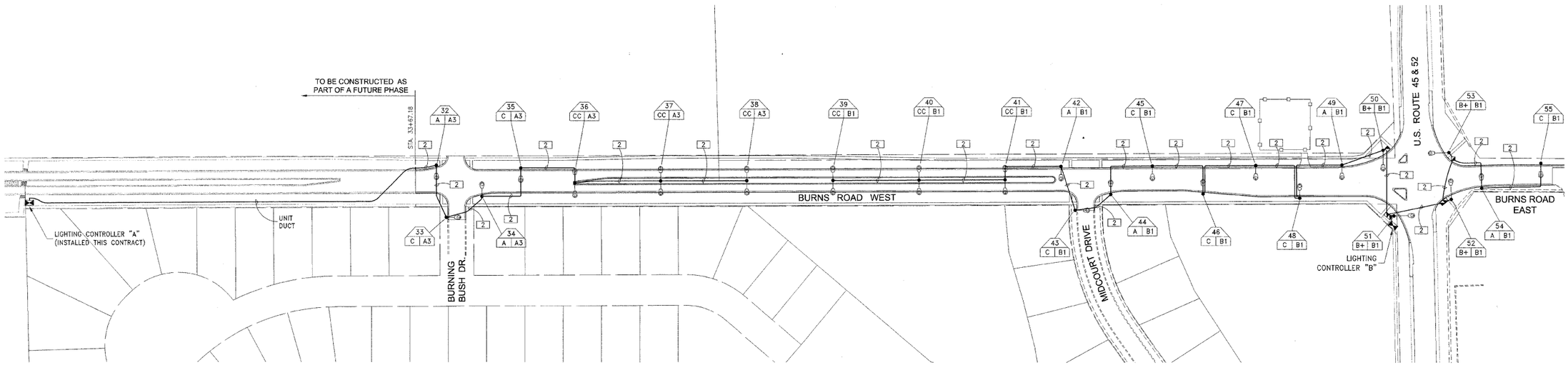


LUMINAIRE SCHEDULE

SYMBOL	QTY	LABEL	ARRANGEMENT	DESCRIPTION	LAMP WATTAGE	ARM LENGTH	MOUNTING HEIGHT
	6	A	SINGLE	HBS-250HPS-MC2	ONE (1) 250W	10'	33'
	4	B+	SINGLE*	HBM-400HPS-MC2	ONE (1) 400W	15'	45'
	8	C	SINGLE	HBS-150HPS-MC2	ONE (1) 150W	10'	33'
	0	AA	BACK-BACK	HBS-250HPS-MC2	TWO (2) 250W	10'	33'
	6	CC	BACK-BACK	HBS-150HPS-MC2	TWO (2) 150W	10'	33'

*COMBINATION ARM ON TRAFFIC POLE

GENERAL NOTES:

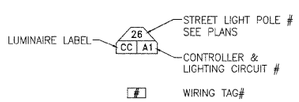
1. ALL LIGHTING FIXTURES ARE 240VAC.
2. ALL LAMPS ARE HIGH PRESSURE SODIUM.

WIRING SCHEDULE

	TAG	CONDUIT	LTG WIRE	GRD WIRE
*	1	2"	4#2	1#2
	2	2"	2#4	1#4
	UNIT DUCT		2#4	1#4

*NOT IN THIS PHASE

SYMBOL LEGEND



CONTROLLER: A
VOLTAGE: 240/120V, 1 PHASE, 3 WIRE
MAINS: 100A MAIN BREAKER
CONTACTOR: 100A/2P
22KAIC SERIES RATED
MOUNTING: GROUND, 50"H X 34"W X 20"D (NOM)
FEEDER: 1-1/4"C-3#3

CKT NO.	LOAD DESCRIPTION	C/B	LOAD VA L1	LOAD VA L2
1	LTS: POLES 26,24,22,20,18	30A/2P	2520	
	16,14,12,10,9,6,4,2			2520
2	LTS: POLES 25,23,21,19,17	30A/2P	2515	
	15,13,11,8,7,5,3,1			2515
3	LTS: POLES 27-38	30A/2P	2376	
				2376
4	–	–	–	
	–	–		–
5	–	–	–	
	–	–		–
6	–	–	–	
	–	–		–
TOTAL KVA PER PHASE			7.4	7.4
TOTAL (KVA)			14.8	
MAX AMPS			62	

CONTROLLER: B
VOLTAGE: 240/120V, 1 PHASE, 3 WIRE
MAINS: 60A MAIN BREAKER
CONTACTOR: 60A/2P
22KAIC SERIES RATED
MOUNTING: GROUND, 50"H X 34"W X 20"D (NOM)
FEEDER: 3/4"C-3#6

CKT NO.	LOAD DESCRIPTION	C/B	LOAD VA L1	LOAD VA L2
1	LTS: POLES 51-55, 50-39	40A/2P	3168	
				3168
2	–	–	–	
	–	–		–
3	–	–	–	
	–	–		–
TOTAL KVA PER PHASE			3.2	3.2
TOTAL (KVA)			6.4	
MAX AMPS			27	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	25

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

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3	4/9/09	MRG	PHASING

LIGHTING INSTALLATION DETAILS

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: HORZ.: 1"=100' VERT.: N/A	FILE NO.
DRAWN BY: MRG	SHEET 25
CHECKED BY: SRM	41

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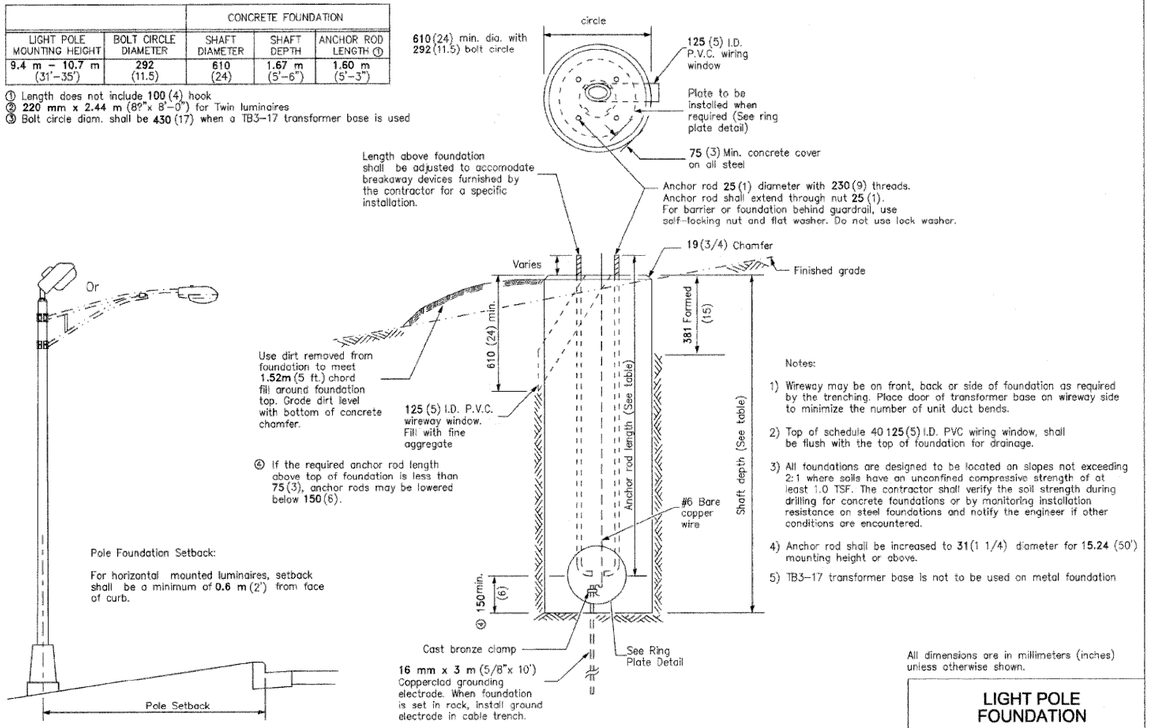
	CONCRETE FOUNDATION			
LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH ①
9.4 m – 10.7 m (31'–35')	292 (11.5)	610 (24)	1.67 m (5'–6")	1.60 m (5'–3")

① Length does not include 100 (4) hook
② 220 mm x 2.44 m (8⅝" x 8'–0") for Twin luminaires
③ Bolt circle diam. shall be 430 (17) when a TB3–17 transformer base is used



Notes:

1) Wireway may be on front, back or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.

2) Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.

3) All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.

4) Anchor rod shall be increased to 31 (1 1/4) diameter for 15.24 (50') mounting height or above.

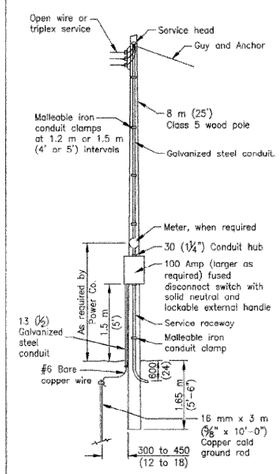
5) TB3–17 transformer base is not to be used on metal foundation

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

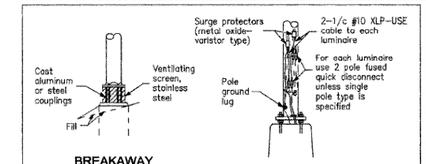
CONCRETE FOUNDATION

LIGHT POLE FOUNDATION

LGT007–836



SERVICE POLE



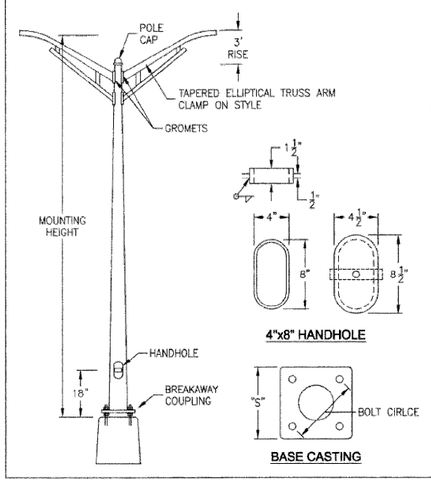
BREAKAWAY COUPLING

ANCHOR

POLE STANDARDS

TWIN TRUSS ARM

(1) SHAFTS ARE ONE SECTION DESIGN FABRICATED FROM 6063 T6 ALUMINUM EXTRUSION–SPUN TAPERED.
(2) BASE CASTING IS 356 T6 CAST ALUMINUM. THE POLE SHAFT TELESCOPES INTO THE BASE CASTING AND IS CIRCUMFERENTIALLY WELDED TOP AND BOTTOM.
(3) ANCHOR BOLTS ARE FABRICATED FROM STRUCTURAL QUALITY HOT ROLLED CARBON STEEL BAR, HAVING MINIMUM YIELD STRENGTH OF 50,000 P.S.I. BOLTS HAVE AN "L" BEND ON THE END. THE THREADS PLUS 3 INCHES ARE GALVANIZED. ANCHOR BOLTS ARE SUPPLIED WITH TWO NUTS AND TWO WASHERS ATTACHED.
(4) ALL POLES TO BE SHALL BE PAINTED BLACK WITH A SATIN FINISH.
(5) ALL WORK ON LIGHT POLES SHALL CONFORM TO SECTION 830 OF THE STANDARDS SPECIFICATIONS.



4"x8" HANDHOLE

BASE CASTING

ANCHOR ROD COVERS REQUIRED

ANCHOR BOLT

QUANTITY		
CATALOG NO.		
POLE	POLE HEIGHT	30'
	TOP DIA.	4.5"
	BOTTOM DIA.	8"
	WALL THK.	0.219"
	MOUNTING HT.	33'
ARM	LENGTH	2 @ 10'
BASE PLATE	"S"	11–5/8"
	BOLT CIRCLE	11–1/2"
	BOLT HOLE DIA.	1–1/4 x 2"
ANCHOR BOLTS	DIA.	1"
	LENGTH	63"

SINGLE TRUSS ARM

(1) SHAFTS ARE ONE SECTION DESIGN FABRICATED FROM 6063 T6 ALUMINUM EXTRUSION–SPUN TAPERED.
(2) BASE CASTING IS 356 T6 CAST ALUMINUM. THE POLE SHAFT TELESCOPES INTO THE BASE CASTING AND IS CIRCUMFERENTIALLY WELDED TOP AND BOTTOM.
(3) ANCHOR BOLTS ARE FABRICATED FROM STRUCTURAL QUALITY HOT ROLLED CARBON STEEL BAR, HAVING MINIMUM YIELD STRENGTH OF 50,000 P.S.I. BOLTS HAVE AN "L" BEND ON THE END. THE THREADS PLUS 3 INCHES ARE GALVANIZED. ANCHOR BOLTS ARE SUPPLIED WITH TWO NUTS AND TWO WASHERS ATTACHED.
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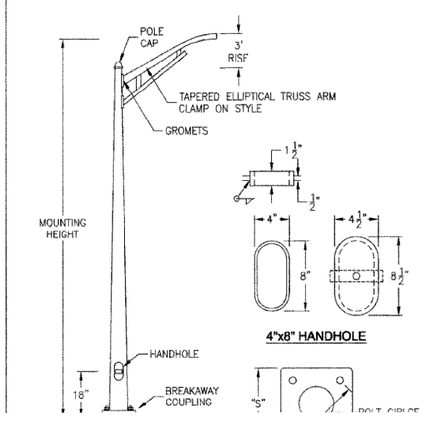
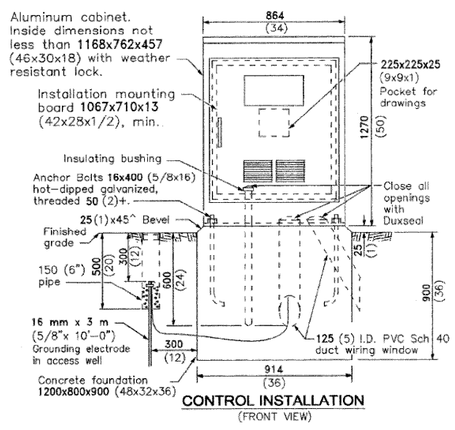
(5) ALL WORK ON LIGHT POLES SHALL CONFORM TO SECTION 830 OF THE STANDARDS SPECIFICATIONS.



4"x8" HANDHOLE

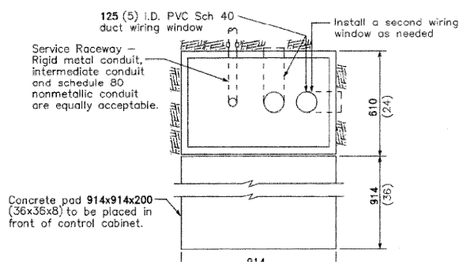
ANCHOR ROD COVERS REQUIRED

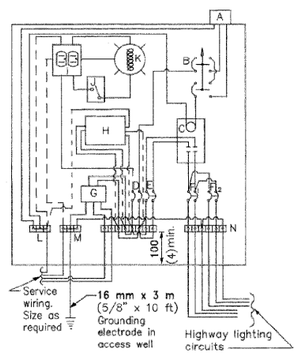
QUANTITY		
CATALOG NO.		
POLE	POLE HEIGHT	30'
	TOP DIA.	4.5"
	BOTTOM DIA.	8"
	WALL THK.	0.219"
	MOUNTING HT.	33'
ARM	LENGTH	1 @ 10'
BASE PLATE	"S"	11–5/8"
	BOLT CIRCLE	11–1/2"
	BOLT HOLE DIA.	1–1/4 x 2"
ANCHOR BOLTS	DIA.	1"
	LENGTH	63"



CONTROL INSTALLATION

(FRONT VIEW)





CONTROL SCHEMATIC

MATERIALS

A Photocell w/ integral surge arrester (remote mount in urban areas)
B 3 position selector switch HAND–OFF–AUTO
C 100 amp* electrically held contactor, 120V operating coil
D 15 amp, 1 pole, circuit breaker
E 100 or 60 amp*, 2 pole, main circuit breaker
F 30 or 40 amp*, 2 pole, branch circuit breaker (typ). 2 spare c.b. required but not shown
G Surge arrestor
H Transformer (see notes), 1 KVA*, 240/480V primary, 120/240V sec, single phase
I GFCI duplex receptacle
J Single pole, single throw switch
K Shielded security fixture with 100W lamp
L Neutral bar
M Equipment ground bar
N Terminal block (typ)
(* = Size larger as needed)

GENERAL NOTES

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Locate in close proximity to the utility transformer so the service drop does not exceed 46 m (150ft) and the total distance of overhead and underground cable (utility transformer to lighting controller) does not exceed 76 m (250ft). Exact location shall be established by the Engineer.

Wiring shall be panel board fashion. All bends shall be right angles. All runs shall vertical or parallel to panel board. Wires shall be grouped or laced.

All control installation components shall be U.L. listed.

Add receptacle, light, and switch in control cabinet, required.

For 480 V service, a step down transformer (dashed lines) is required.

Raceways shall terminate 75 (3) above top of concrete foundation.

Label equipment ground buss and neutral buss.

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

LIGHTING CONTROL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	26

CONTRACT NO. 87414

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

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** 03–00058–00–FP

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4	5/8/09	MRG	PER IDOT REVIEW

LIGHTING INSTALLATION DETAILS

PROJECT:

PROPOSED IMPROVEMENTS FOR BURNS ROAD WEST

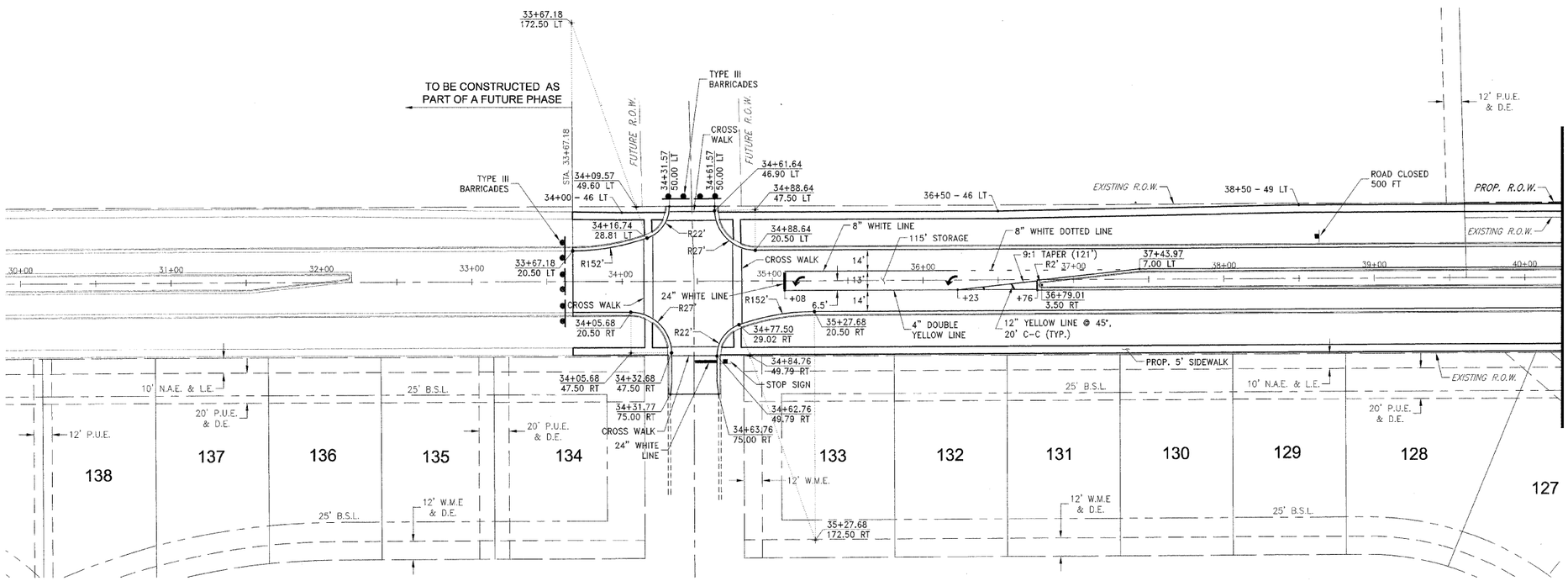
FROM BURNING BUSH DRIVE TO U.S. ROUTE 45/52

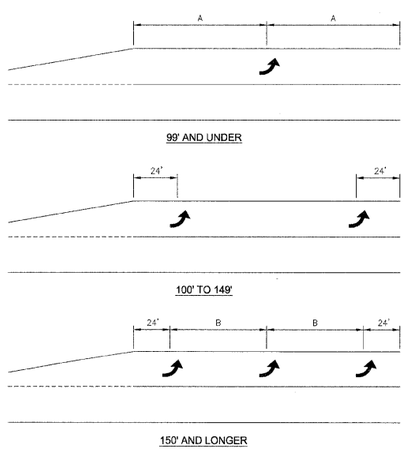
SECTION 03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: N/A	FILE NO.

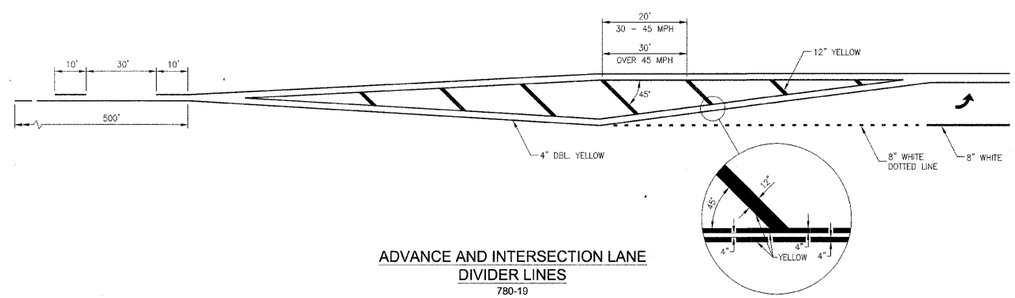
\E05055A\dwg\E05055–BASE–TOPO.dwg 6/1/2009 10:12:56 AM CDT

*NOTE: ALL CROSSWALKS SHALL BE LADDERS WITH 6" WHITE SIDEBARS AND 12" WHITE RUNGS AT 3' CENTERS.

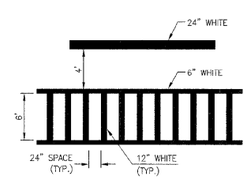




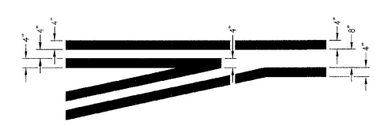
TYPICAL PLACEMENT OF ARROWS IN TURN LANES
780-10



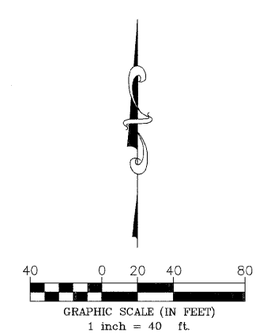
ADVANCE AND INTERSECTION LANE DIVIDER LINES
780-19



TYPICAL SPACING DETAIL FOR CROSSWALKS AND STOP BARS
780-3
OPTION 2



TYPICAL APPLICATION @ LEFT TURN LANES
780-1



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	27

CONTRACT NO. 87414

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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

STRIPING AND SIGNAGE PLAN

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	HORZ.: 1"=40' VERT.: N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	27
CHECKED BY:	SRM		41

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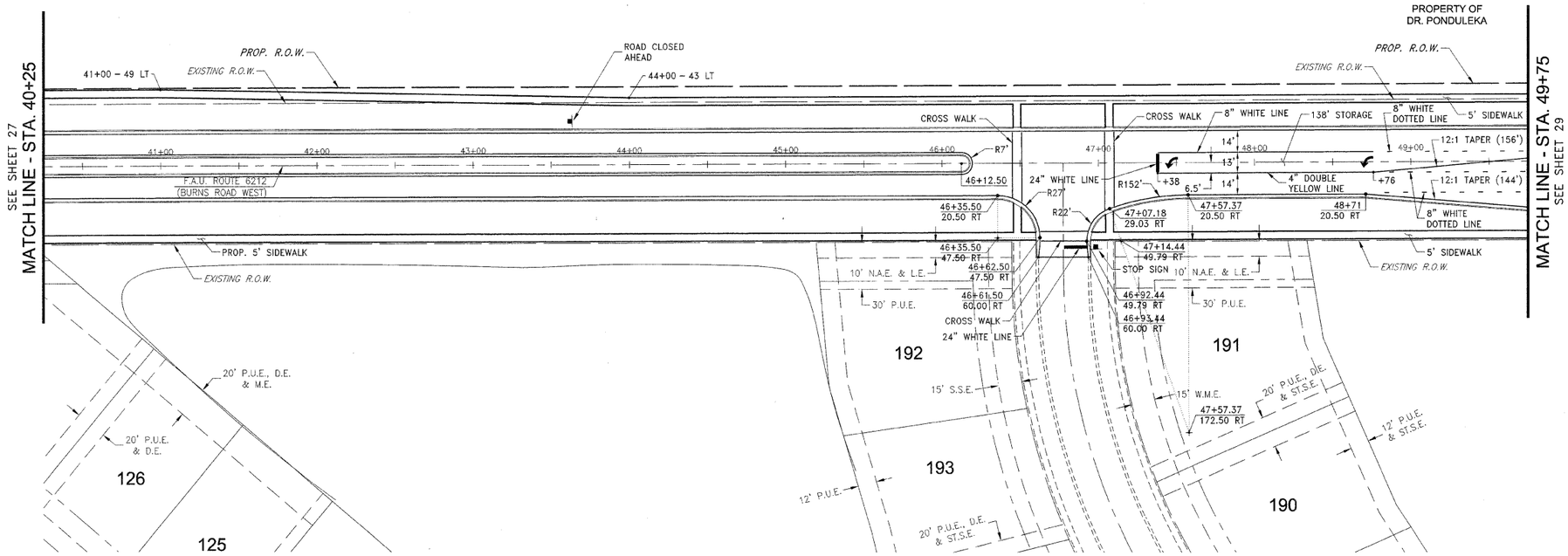

*NOTE: ALL CROSSWALKS SHALL BE LADDERS WITH 6" WHITE SIDEBARS AND 12" WHITE RUNGS AT 3' CENTERS.

40 0 20 40 80
GRAPHIC SCALE (IN FEET)
1 inch = 40 ft.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	28

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136
367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

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3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

STRIPING AND SIGNAGE PLAN

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: HORZ.: 1"=40' VERT.: N/A	FILE NO.
DRAWN BY: MRG	SHEET
CHECKED BY: SRM	28 / 41

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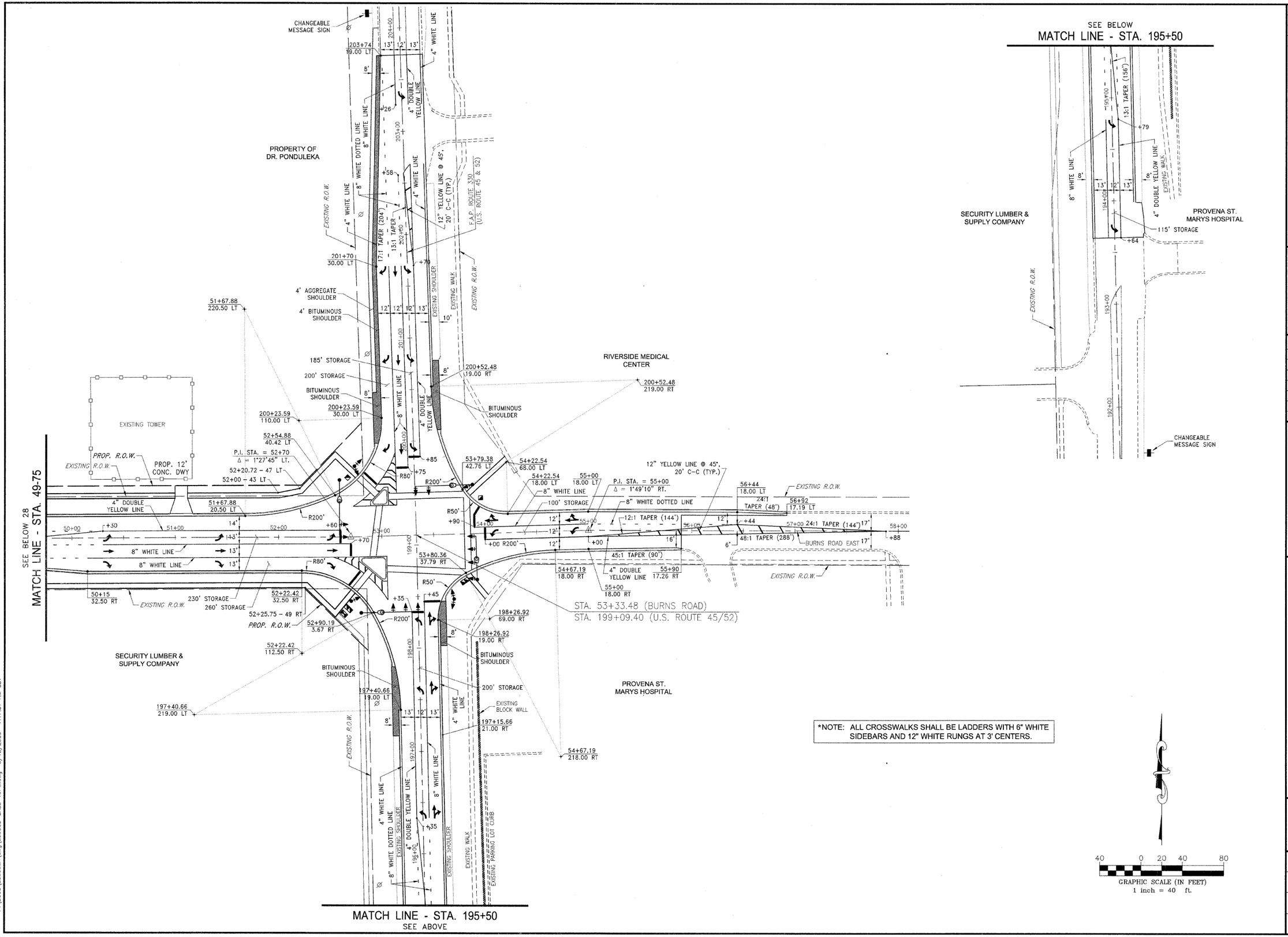

*NOTE: ALL CROSSWALKS SHALL BE LADDERS WITH 6" WHITE SIDEBARS AND 12" WHITE RUNGS AT 3' CENTERS.

40 0 20 40 80
GRAPHIC SCALE (IN FEET)
1 inch = 40 ft.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	29

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

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3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

STRIPING AND SIGNAGE PLAN

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	HORZ.: 1"=40' VERT.: N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	29
CHECKED BY:	SRM		41

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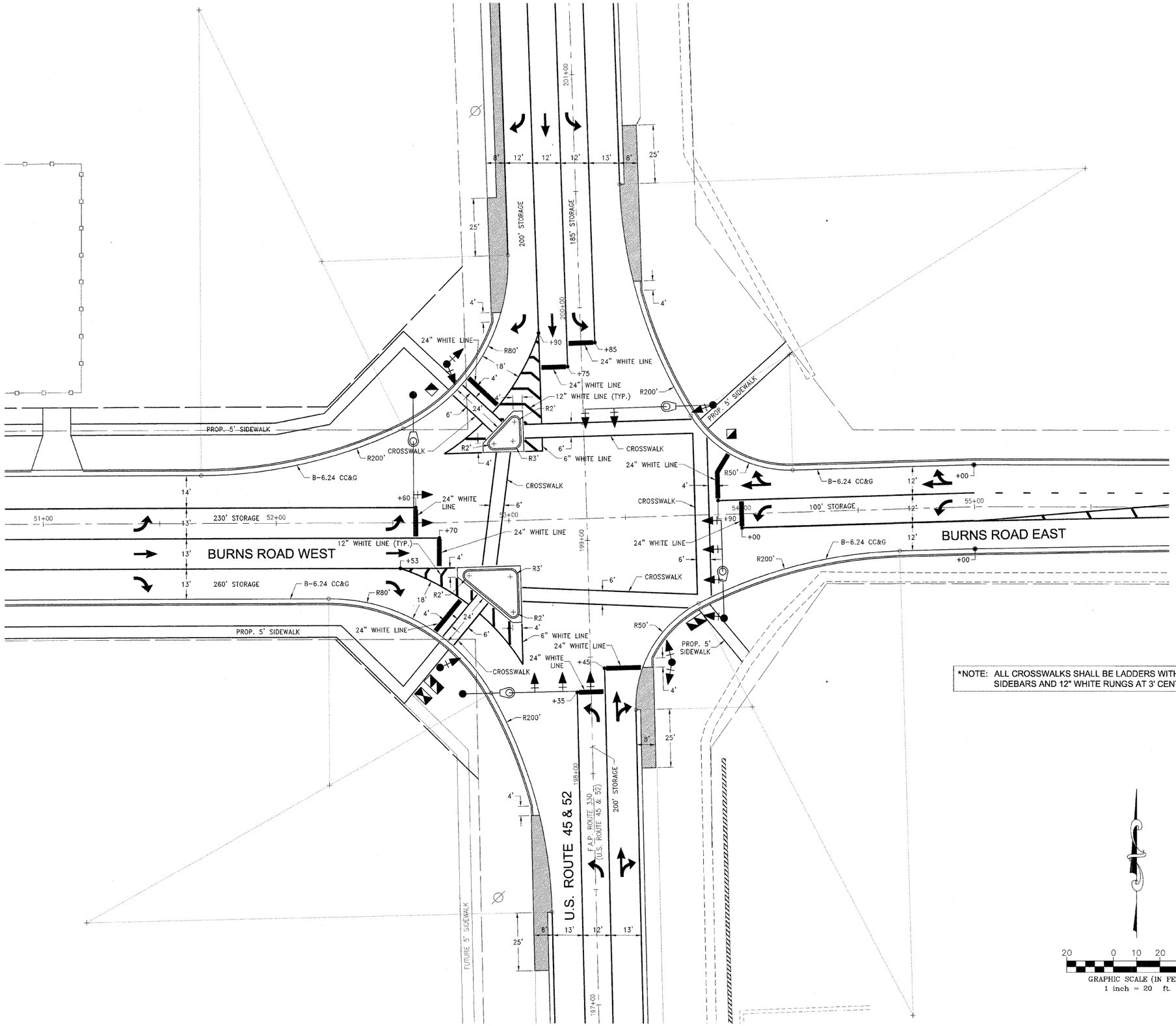

*NOTE: ALL CROSSWALKS SHALL BE LADDERS WITH 6" WHITE SIDEBARS AND 12" WHITE RUNGS AT 3' CENTERS.

20 0 10 20 40
GRAPHIC SCALE (IN FEET)
1 inch = 20 ft.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	30

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
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2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

INTERSECTION DETAIL

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	HORZ.: 1"=20' VERT.: N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	30
CHECKED BY:	SRM		41

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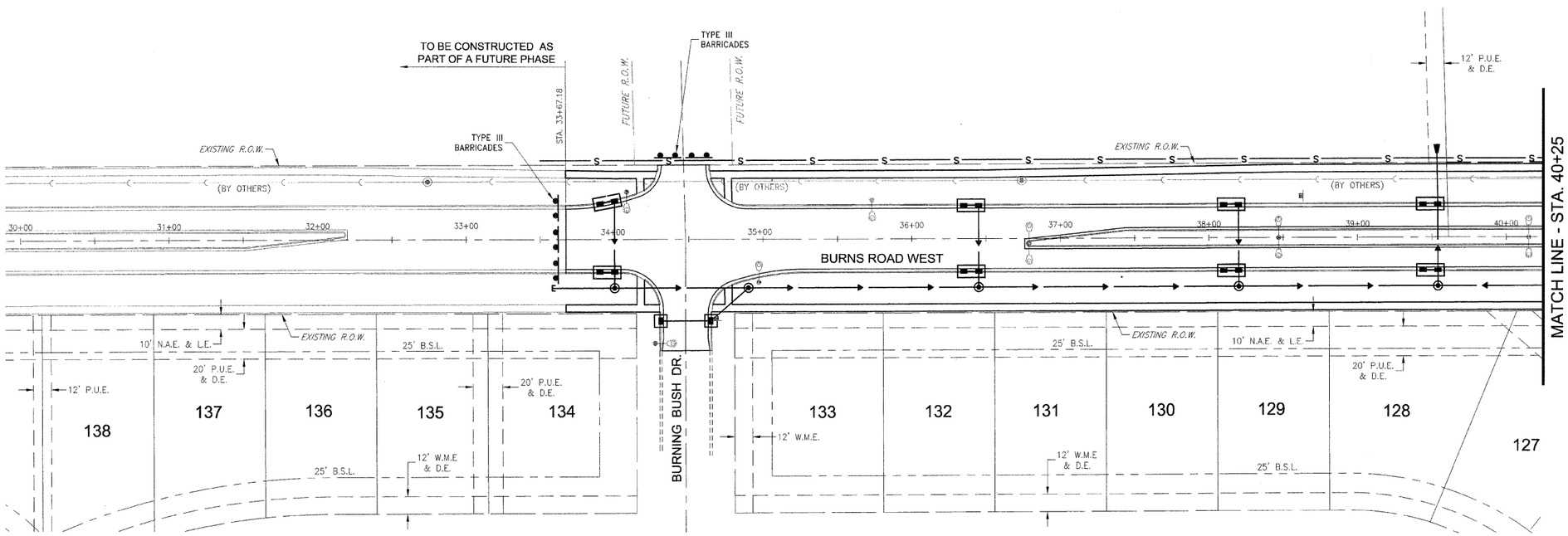
EROSION CONTROL LEGEND

- NEW INLET
- NEW MANHOLE
- NEW FLARED END SECTION
- INLET AND PIPE PROTECTION
- CULVERT INLET PROTECTION
- S — PERIMETER EROSION BARRIER
- RIP-RAP



40 0 20 40 80
GRAPHIC SCALE (IN FEET)
1 inch = 40 ft.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	31

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

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1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

EROSION CONTROL PLAN

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: HORZ.: 1"=40' VERT.: N/A	FILE NO.
DRAWN BY: MRG	SHEET 31
CHECKED BY: SRM	41

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	32

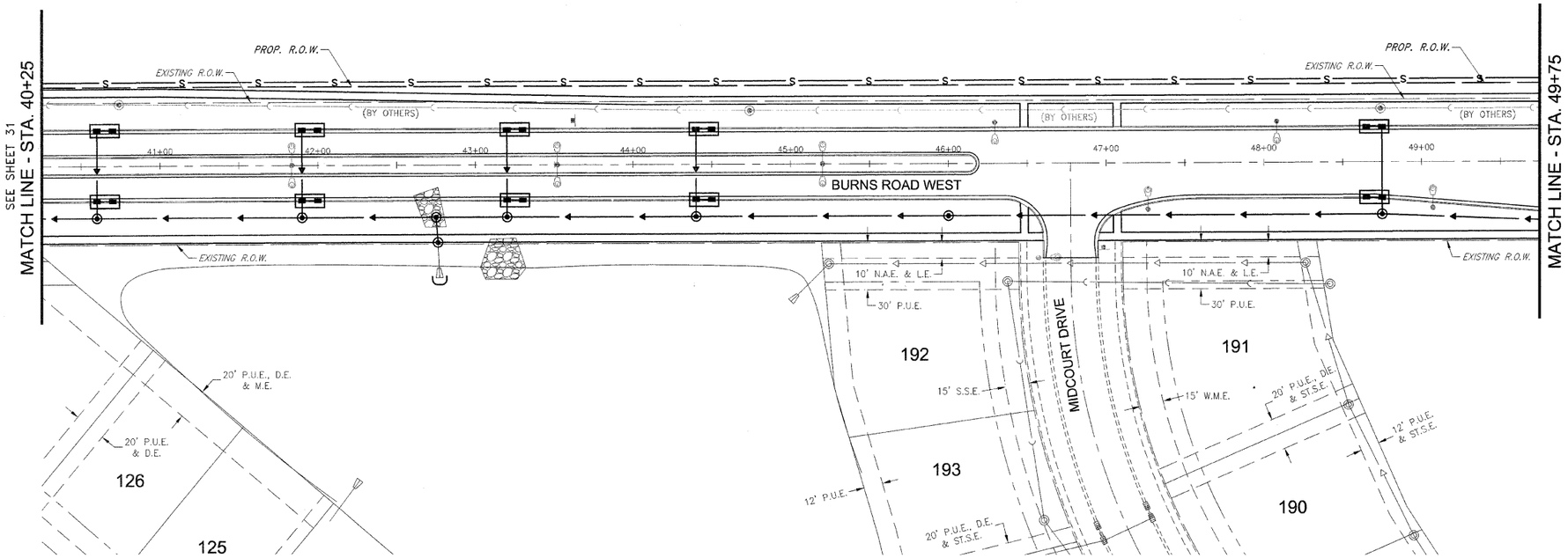
CONTRACT NO. 87414

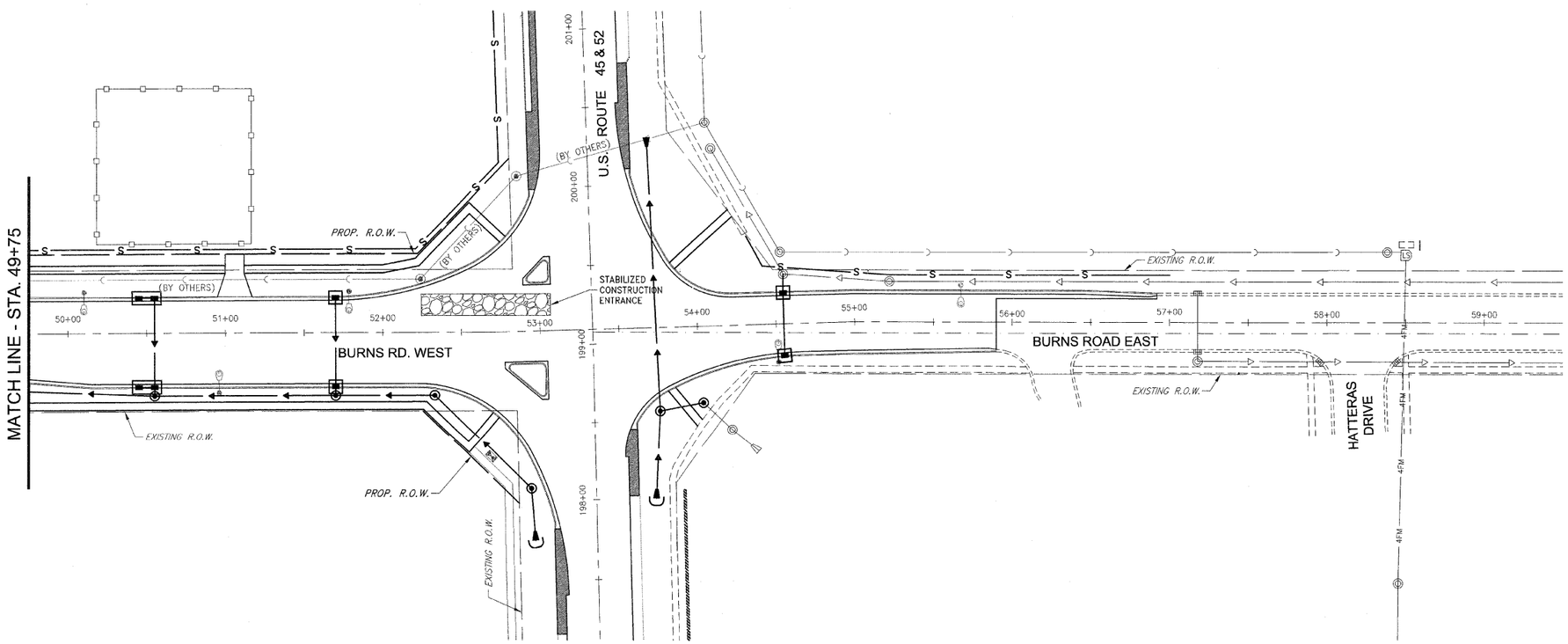
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

EROSION CONTROL LEGEND

- NEW INLET
- NEW MANHOLE
- NEW FLARED END SECTION
- INLET AND PIPE PROTECTION
- CULVERT INLET PROTECTION
- S — PERIMETER EROSION BARRIER
- RIP-RAP





40 0 20 40 80
GRAPHIC SCALE (IN FEET)
1 inch = 40 ft.

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1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

EROSION CONTROL PLAN

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: HORZ.: 1"=40' VERT.: N/A	FILE NO.
DRAWN BY: MRG	SHEET 32
CHECKED BY: SRM	41

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	33

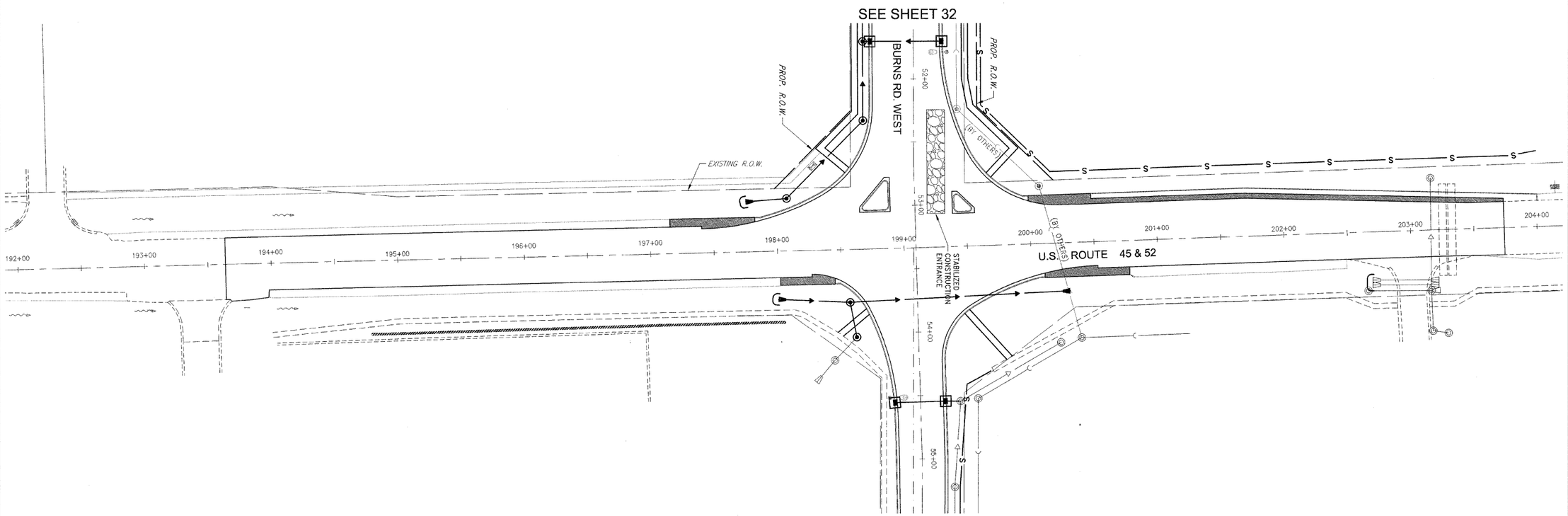
CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

EROSION CONTROL LEGEND

- NEW INLET
- NEW MANHOLE
- NEW FLARED END SECTION
- INLET AND PIPE PROTECTION
- CULVERT INLET PROTECTION
- S — PERIMETER EROSION BARRIER
- RIP-RAP



40 0 20 40 80
GRAPHIC SCALE (IN FEET)
1 inch = 40 ft.

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NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
2	4/13/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING
4	5/8/09	MRG	PER IDOT REVIEW

EROSION CONTROL PLAN

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	HORZ.: 1"=40' VERT.: N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	33
CHECKED BY:	SRM		41

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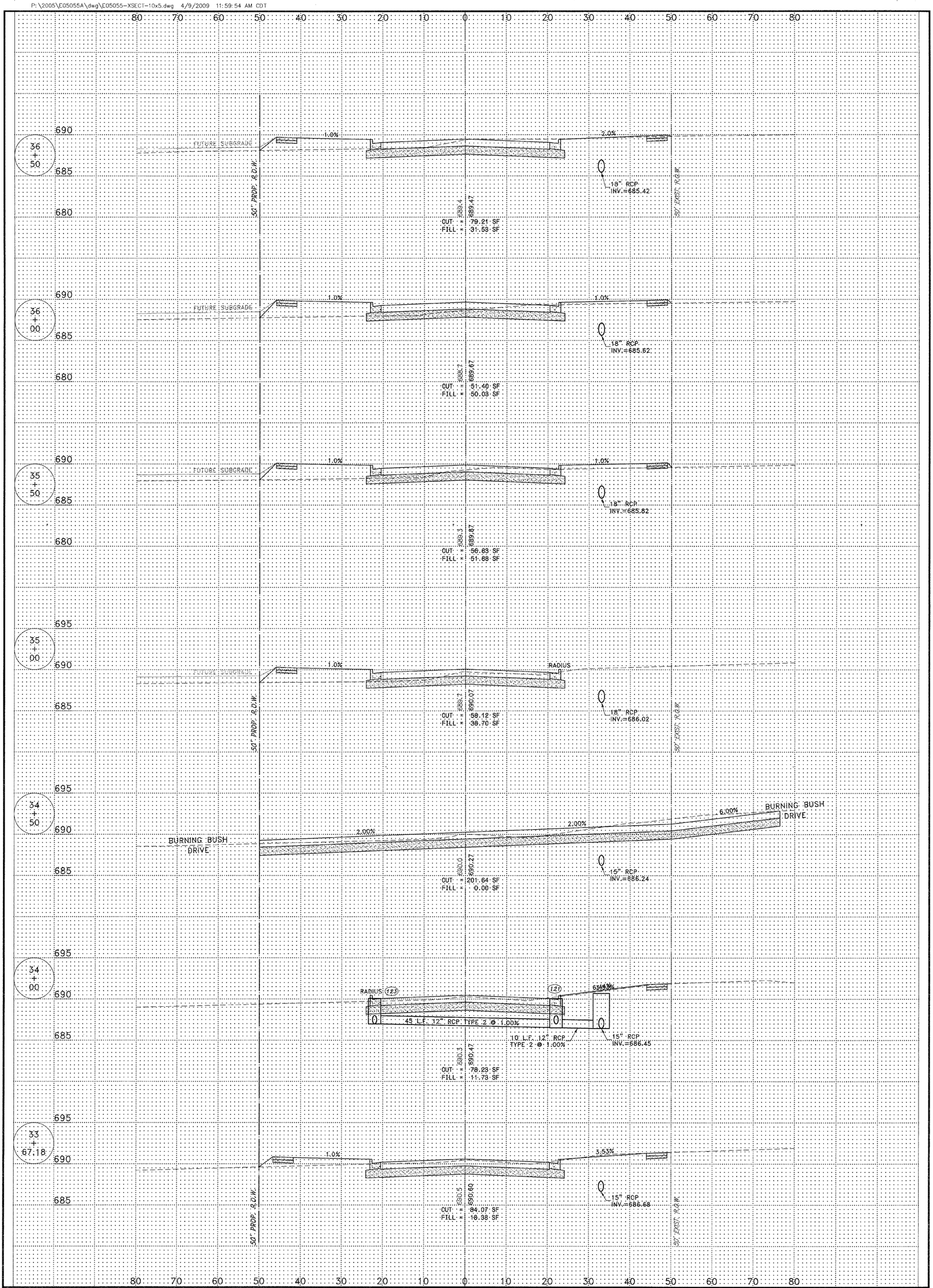

DATE:	1/29/07
SCALE:	HORZ.: 1"=10' VERT.: 1"=5'
DRAWN BY:	MRG
CHECKED BY:	SRM
JOB NO.	E05055
FILE NO.	
SHEET	34
41	

SECTION
03-00058-00-FP

PROJECT:

PROPOSED IMPROVEMENTS FOR

BURNS ROAD WEST

FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

BURNS ROAD WEST
CROSS SECTION
STA. 33+67.18 TO STA. 36+50

REVISIONS

NO.	DATE	BY	DESCRIPTION
3	3/12/07	MRG	PER IDOT REVIEW
4	4/9/09	MRG	PHASING

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PHONE (815) 932-7406

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	34

CONTRACT NO. 87414

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

* BURNS ROAD WEST - FAU 6212
** 03-00058-00-FP

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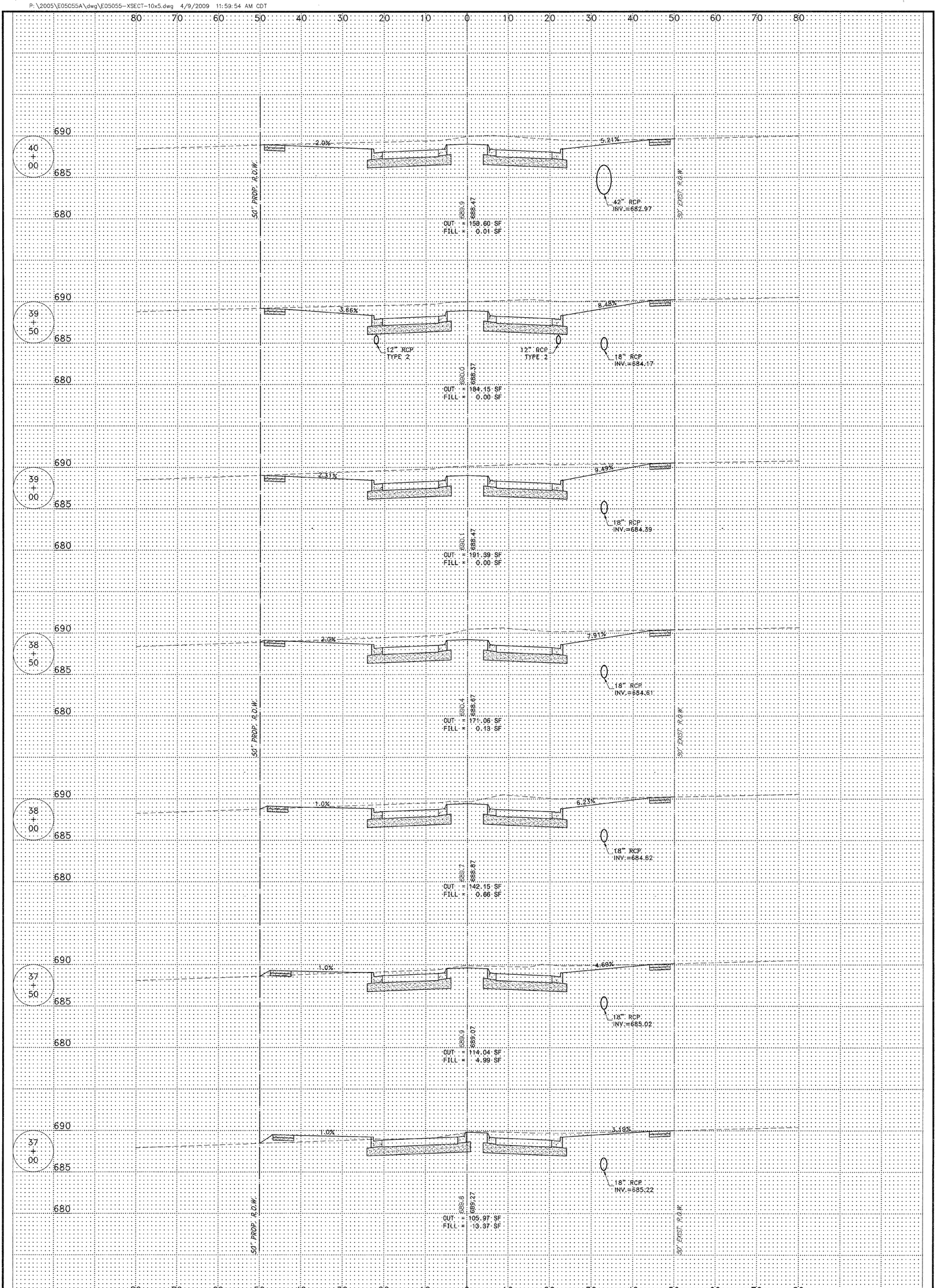

DATE:	1/29/07
SCALE:	HORZ.: 1"=10' VERT.: 1"=5'
DRAWN BY:	MRG
CHECKED BY:	SRM
JOB NO.	E05055
FILE NO.	
SHEET	35
	41

SECTION
03-00058-00-FP

PROJECT:

PROPOSED IMPROVEMENTS FOR

BURNS ROAD WEST

FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

BURNS ROAD WEST
CROSS SECTION
STA. 37+00 TO STA. 40+00

REVISIONS

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1	3/12/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

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*		SECTION	KANKAKEE	COUNTY	TOTAL SHEETS 35
**			CONTRACT NO. 87414		SHEET NO. 41
			FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT	

* BURNS ROAD WEST - FAU 6212
** 03-00058-00-FP

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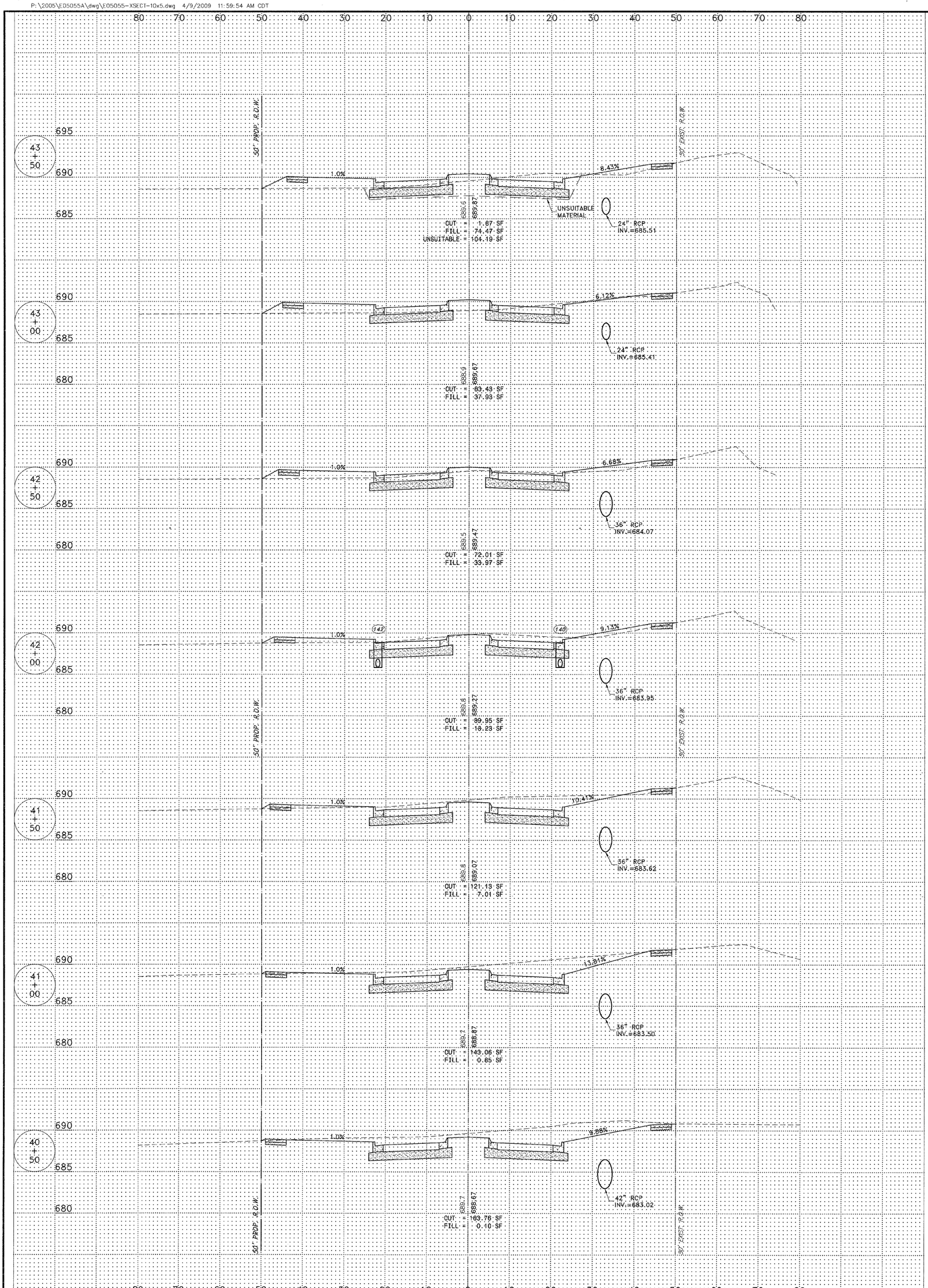

DATE:	1/29/07
SCALE:	HORZ.: 1"=10' VERT.: 1"=5'
DRAWN BY:	MRG
CHECKED BY:	SRM
JOB NO.	E05055
FILE NO.	
SHEET	36 41

SECTION
03-00058-00-FP

PROJECT:

PROPOSED IMPROVEMENTS FOR

BURNS ROAD WEST

FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

BURNS ROAD WEST
CROSS SECTION
STA. 40+50 TO STA. 43+50

REVISIONS

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3	4/9/09	MRG	PHASING

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FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
* BURNS ROAD WEST - FAU 6212 ** 03-00058-00-FP		

*	**	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			KANKAKEE	41	36

CONTRACT NO. 87414

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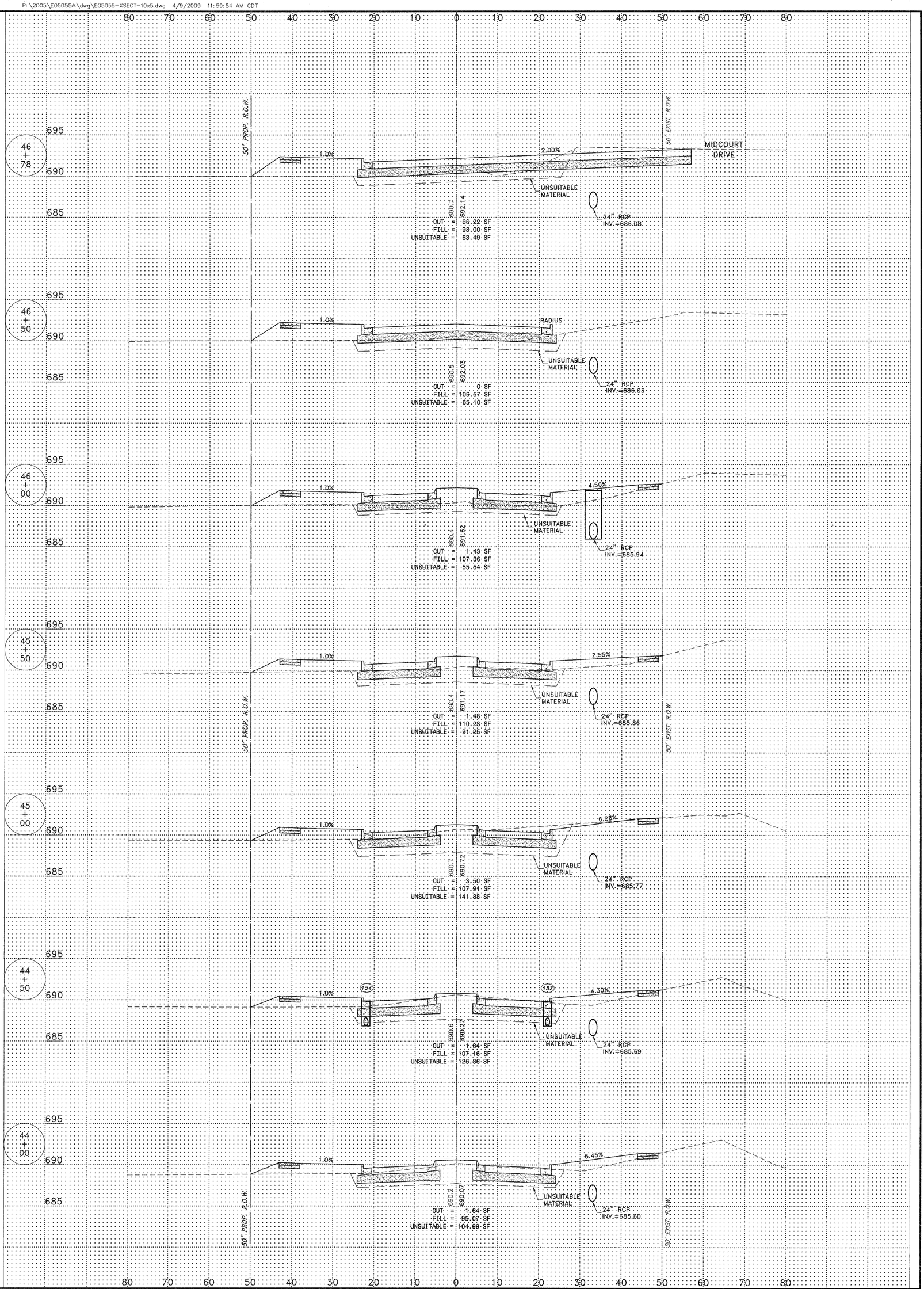

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SCALE:	HORZ.: 1"=10' VERT.: 1"=5'
DRAWN BY:	MRG
CHECKED BY:	SRM
JOB NO.	E05055
FILE NO.	
SHEET	37
41	

SECTION
03-00058-00-FP

PROJECT:

PROPOSED IMPROVEMENTS FOR

BURNS ROAD WEST

FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

BURNS ROAD WEST
CROSS SECTION
STA. 44+00 TO STA. 46+78

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

REVISIONS

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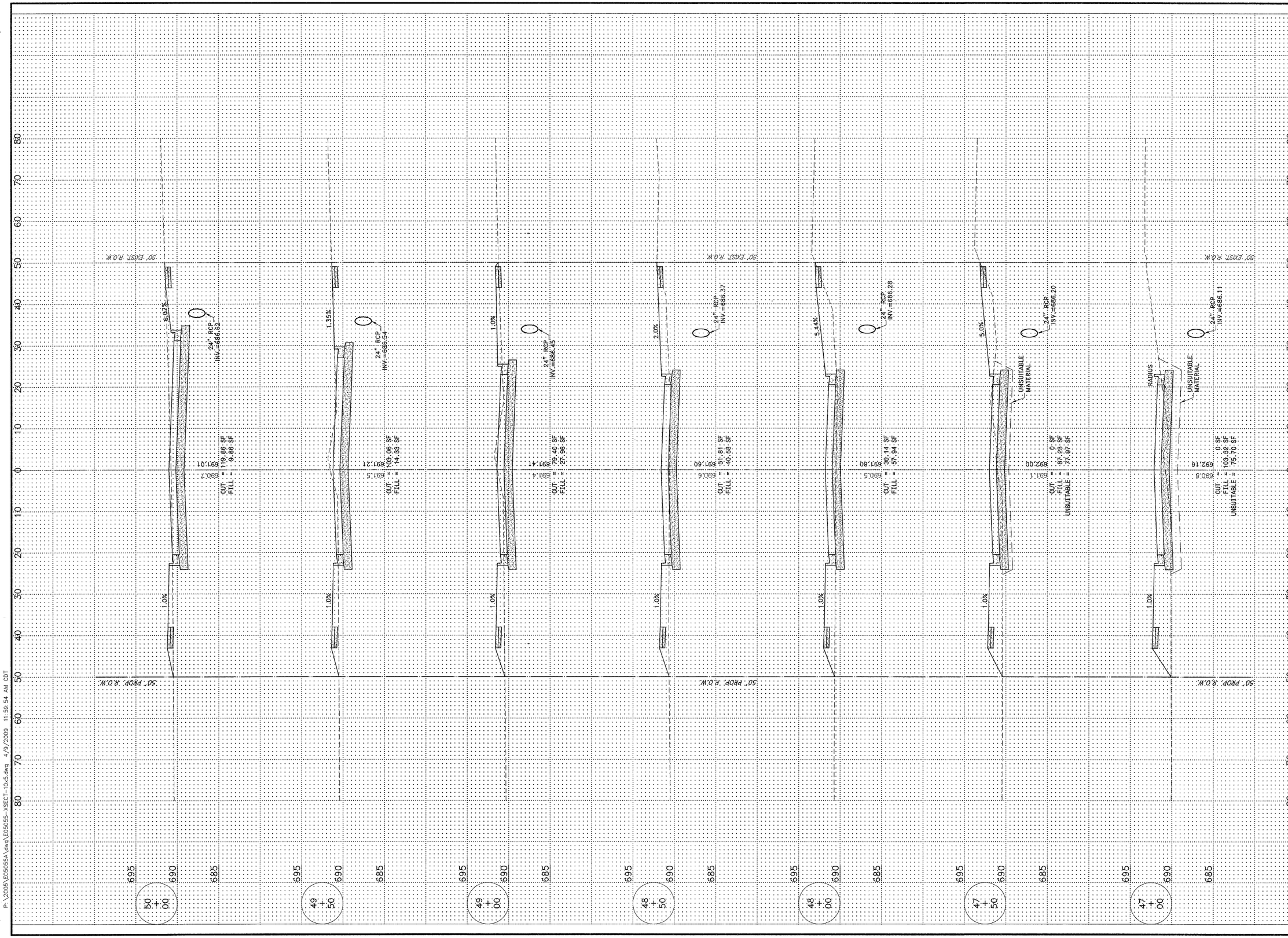
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
* BURNS ROAD WEST - FAU 8212 ** 03-00058-00-FP		

*	**	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO. 87414			KANKAKEE	41	37



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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	38

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

BURNS ROAD WEST
CROSS SECTION
STA. 47+00 TO STA. 50+00

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	HORZ.: 1"=10' VERT.: 1"=5'	FILE NO.	
DRAWN BY:	MRG	SHEET	38
CHECKED BY:	SRM		41

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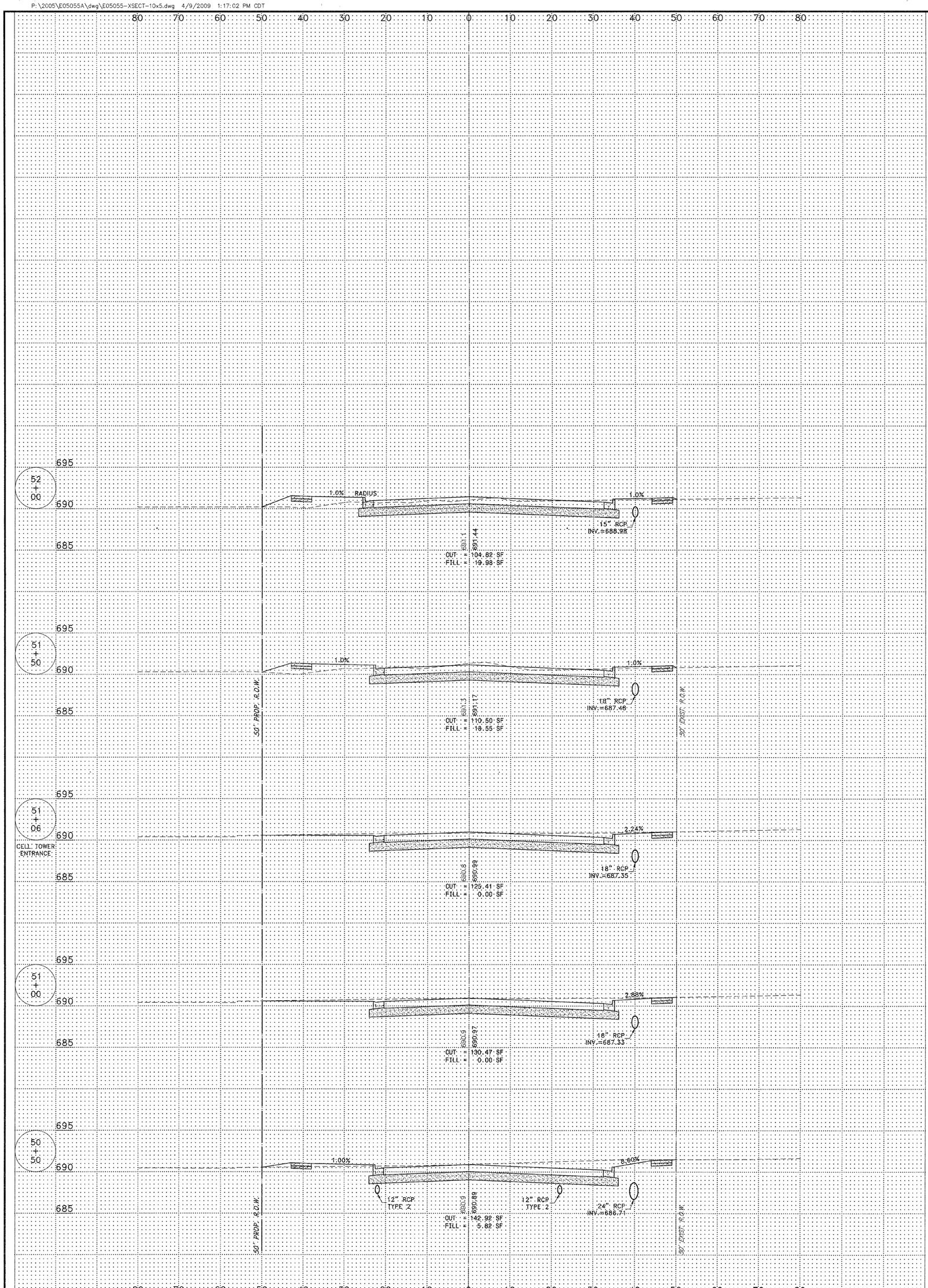

DATE:	1/29/07
SCALE:	HORZ.: 1"=10' VERT.: 1"=5'
DRAWN BY:	MRG
CHECKED BY:	SRM
JOB NO.	E05055
FILE NO.	
SHEET	39
	41

SECTION
03-00058-00-FP

PROJECT:

PROPOSED IMPROVEMENTS FOR

BURNS ROAD WEST

FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

BURNS ROAD WEST
CROSS SECTION
STA. 50+50 TO STA. 52+00

REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

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Contractor shall be responsible for verifying all dimensions.

Information hereon and herein is confidential.

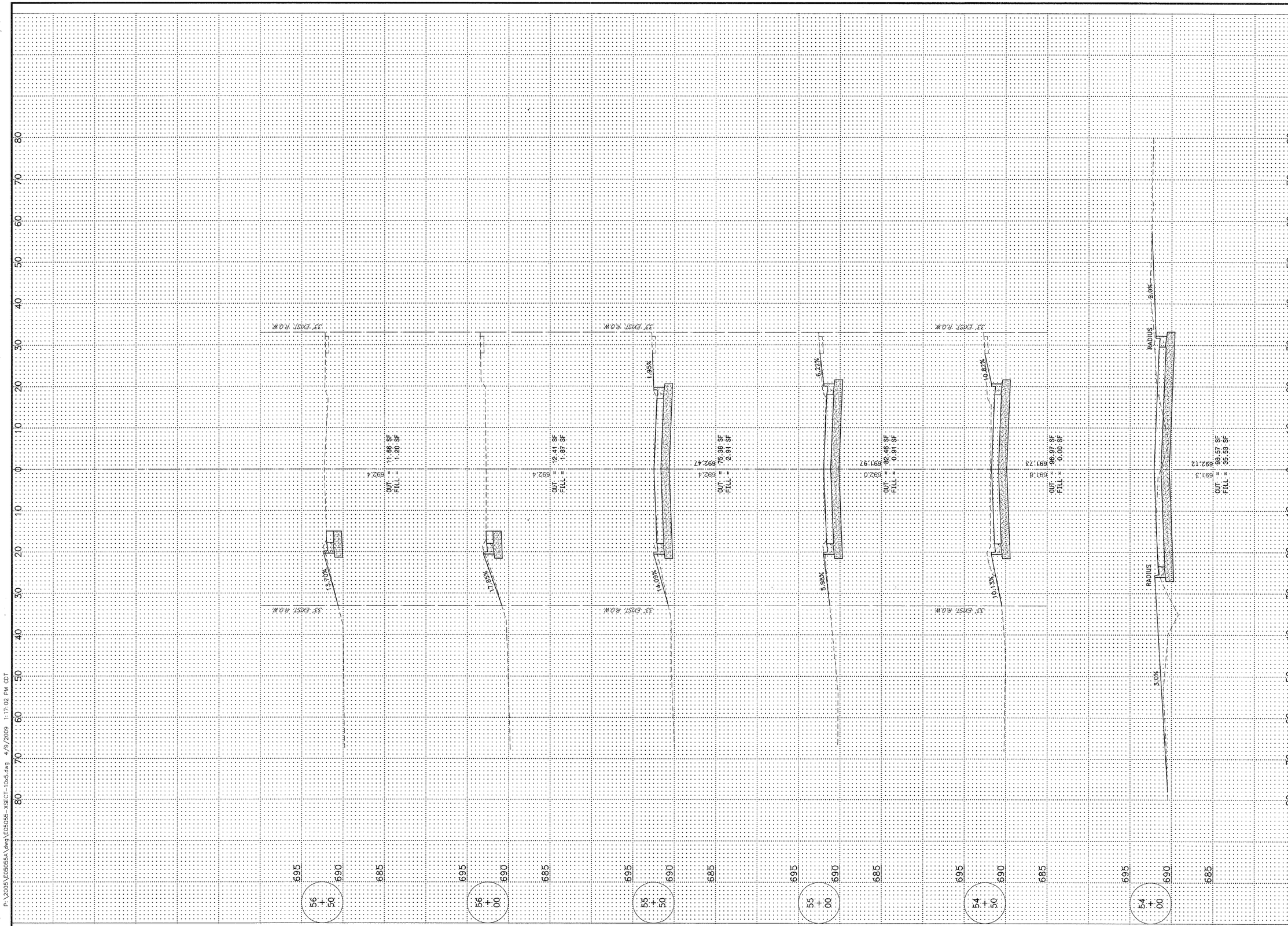
TYSON ENGINEERING, INC.
CONSULTING CIVIL ENGINEERS
LAND SURVEYORS
DESIGN FIRM LICENSE #184-001136

367 SOUTH SCHUYLER AVENUE
KANKAKEE, ILLINOIS 60901
PHONE (815) 932-7406

* BURNS ROAD WEST - FAU 6212
** 03-00058-00-FP

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

PLAN REF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*		KANKAKEE	41	39
**		CONTRACT NO. 87414		



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	40

CONTRACT NO. 87414

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

* BURNS ROAD WEST – FAU 6212
** 03-00058-00-FP

TYSON ENGINEERING, INC.
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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

BURNS ROAD EAST
CROSS SECTION
STA. 54+00 TO STA. 56+50

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE: 1/29/07	JOB NO. E05055
SCALE: HORZ.: 1"=10' VERT.: 1"=5'	FILE NO.
DRAWN BY: MRG	SHEET 40
CHECKED BY: SRM	41

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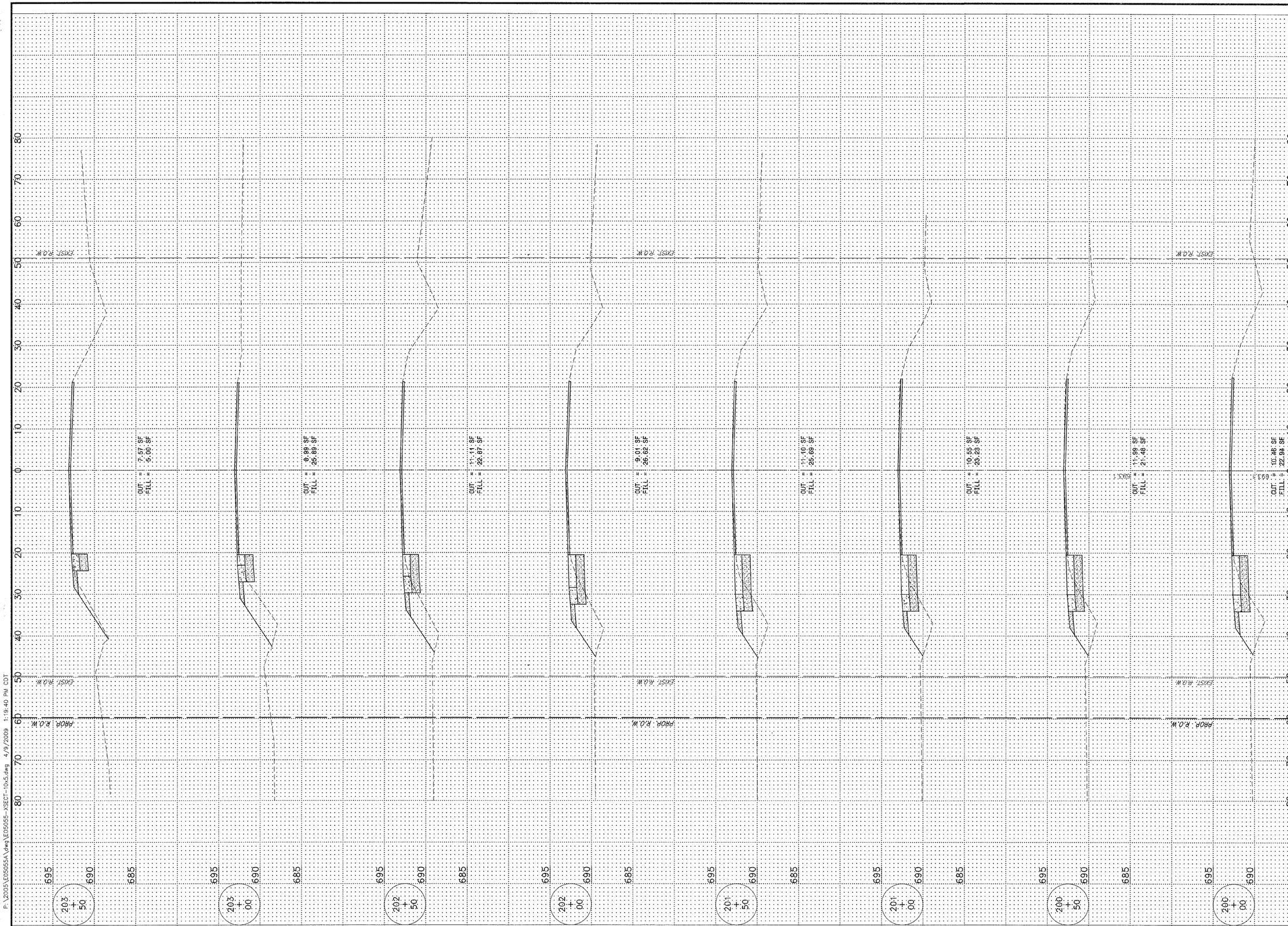

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	**	KANKAKEE	41	41

CONTRACT NO. 87414

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

* BURNS ROAD WEST - FAU 6212
** 03-00058-00-FP

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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	3/12/07	MRG	PER IDOT REVIEW
3	4/9/09	MRG	PHASING

US ROUTE 45/52
CROSS SECTION
STA. 200+00 TO STA. 203+50

PROJECT:
PROPOSED IMPROVEMENTS FOR
BURNS ROAD WEST
FROM BURNING BUSH DRIVE
TO U.S. ROUTE 45/52

SECTION
03-00058-00-FP

DATE:	1/29/07	JOB NO.	E05055
SCALE:	HORZ.: 1"=10' VERT.: 1"=5'	FILE NO.	
DRAWN BY:	MRG	SHEET	41
CHECKED BY:	SRM		41