

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**
SOUTHERN DU PAGE COUNTY REGIONAL TRAIL
101st STREET CONNECTOR – WATERFALL GLEN SPUR
WOODWARD AVENUE TO LEMONT ROAD
SECTION 03-00001-06-BT
PROJECT NO: M-8003 (440)
DUPAGE COUNTY
C-91-309-04

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	03-00001-06-BT	DUPAGE	30	1

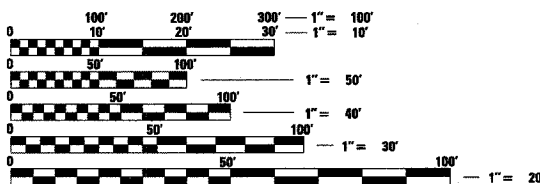
CONTRACT NO.: 83805

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30. DETAIL - PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE

HIGHWAY STANDARDS

- | | |
|-----------|--|
| 000001-04 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 280001-02 | TEMPORARY EROSION CONTROL SYSTEMS |
| 424001-04 | SIDEWALK RAMPS ACCESSIBLE TO THE DISABLED |
| 542301 | PRECAST REINFORCED CONCRETE FLARED END SECTION |
| 602401 | MANHOLE, TYPE A |
| 604001-02 | FRAME AND LIDS, TYPE 1 |
| 606001-02 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 664001-01 | CHAIN LINK FENCE |
| 701101-01 | OFF ROAD OPERATIONS, MULTILANE, 4.5m (15') TO 600mm (24") FROM PAVEMENT EDGE |
| 701106-01 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 4.5 m (15') AWAY |
| 701301-02 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701606-04 | URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN |
| 701701-04 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 702001-05 | TRAFFIC CONTROL DEVICES |

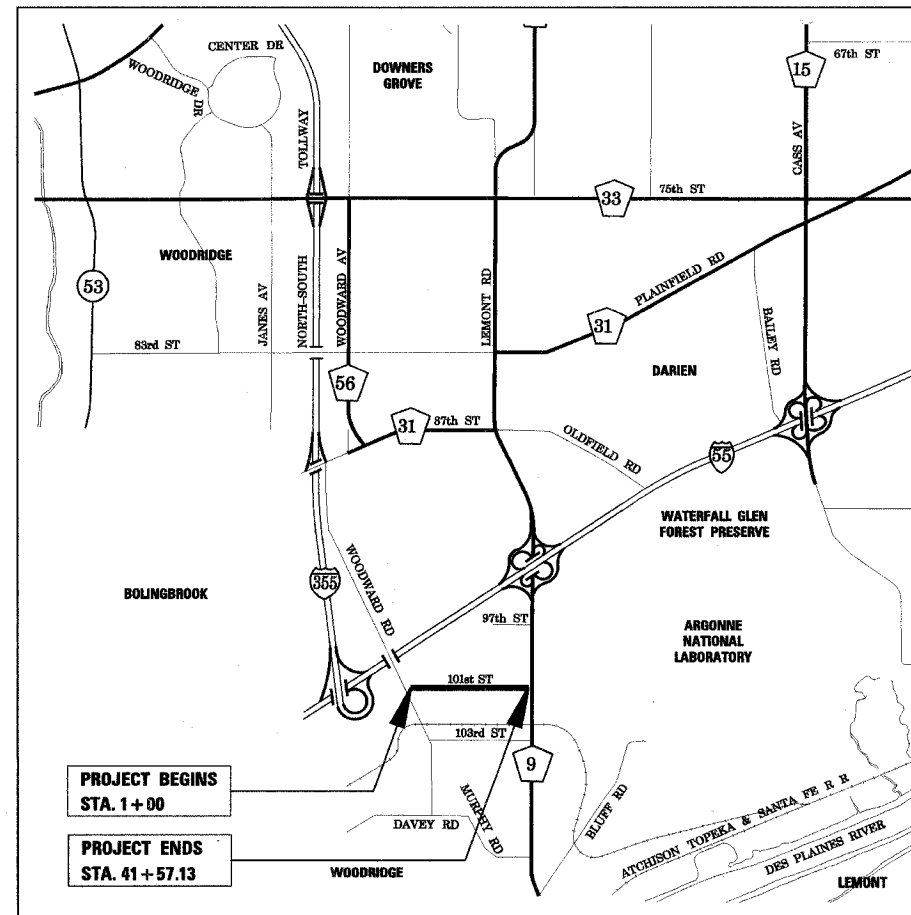


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

PLANS PREPARED FOR
DUPAGE COUNTY DIVISION OF TRANSPORTATION
CHARLES F. TOKARSKI, P.E. COUNTY ENGINEER

CONTRACT NO. 83805



PROJECT BEGINS
STA. 1+00

PROJECT ENDS
STA. 41+57.13

NOT TO SCALE
DOWNERS GROVE TOWNSHIP
T37N R11E
GROSS LENGTH OF PROJECT = 4,057.13 FT = 0.768 MILE
NET LENGTH OF PROJECT = 4,057.13 FT = 0.768 MILE

DESIGN SPEED OF MULTI-USE
PATH = 20 MPH



LOCATION OF SECTION INDICATED THIS: - [Symbol] -

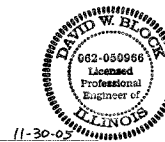
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED June 9, 2005
Charles F. Tokarski
DUPAGE COUNTY

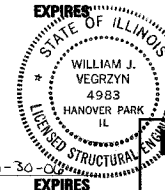
APPROVED June 10, 2005
[Signature]
LOCAL ROADS ENGINEER

APPROVED June 13, 2005
Dina O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS - REGION ENGINEER

David W. Block
REGISTERED P.E., STATE OF ILLINOIS
(SHEETS 1-26)



William J. Vegrzyn
REGISTERED S.E., STATE OF ILLINOIS
(SHEETS 27-29)



PLANS PREPARED BY:
RJN GROUP, INC.
CONSULTING ENGINEERS
WHEATON, ILLINOIS
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE No. 184-000813

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
- ALL UTILITIES, SCHOOL DISTRICTS, LOCAL POLICE, AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- DURING THE CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED, AT HIS EXPENSE, TO HAVE AVAILABLE A WATER TRUCK OR SIMILAR EQUIPMENT TO CONTROL DUST. IF NECESSARY, THE CONTRACTOR SHALL BE REQUIRED TO CONTROL DUST DURING NON-WORKING HOURS.
- ALL EXCESS MATERIAL (BROKEN CONCRETE, CULVERT PIPE, WASTE ROADWAY EXCAVATION, SURPLUS MATERIAL FROM SEWER TRENCHES, ETC.) SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMP SITE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.
- TEMPORARY FENCE SHOULD BE ERECTED ALONG THE DRIPLINE OF EXISTING TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION. AFTER TREES ARE SAFELY FENCED NOTHING IS TO BE STORED, DRIVEN, OR DISTURBED INSIDE THE FENCE. REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
- EROSION CONTROL WORK ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODABLE CONDITIONS.
- THE LANDSCAPING AND EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.

TREE REMOVAL CLEARING HEDGE REMOVAL

- TREES NOT MARKED FOR REMOVAL SHALL BE CONSIDERED AS DESIGNATED TO BE SAVED AND SHALL BE PROTECTED UNDER THE PROVISIONS OF ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS.
- ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK MUST BE REMOVED FROM THE RIGHT-OF-WAY AND DISPOSED OF AT THE END OF EACH DAY IN ACCORDANCE WITH ARTICLE 202.03. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TREE REMOVAL.
- ALL CLEARING, REMOVAL OF BUSHES, HEDGES AND TREES UNDER SIX (6) INCHES IN DIAMETER WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

OVERHANGING LIMBS

- ALL CUTS OVER ONE (1) INCH IN DIAMETER SHALL BE MADE FLUSH WITH THE NEXT LARGE BRANCH.
- ALL LIMBS, BRANCHES, AND OTHER DEBRIS RESULTING FROM THIS WORK MUST BE REMOVED FROM THE RIGHT-OF-WAY AND DISPOSED OF AT THE END OF EACH DAY IN ACCORDANCE WITH ARTICLE 202.03. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR AS PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE.
- ALL BRANCHES THAT ARE LESS THAN 8 FEET ABOVE THE FINISHED SURFACE OF THE TRAIL SHALL BE REMOVED BY A CERTIFIED ARBORIST. THIS WORK SHALL BE UNDERTAKEN IN A TIMELY FASHION SO AS NOT TO INTERFERE WITH CONSTRUCTION. THIS WORK WILL BE PAID FOR AS "PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE".

TOPSOIL

- TOPSOIL SHALL BE PLACED TO A DEPTH OF SIX (6) INCHES AND BE MEASURED IN SQUARE YARDS.
- THE CROSS SECTIONS INDICATE THE FINISHED GRADE OF TOPSOIL.
- TOPSOIL SHALL NOT BE STOCKPILED WITHIN THE LIMITS OF CONSTRUCTION; THE LOCATIONS OF TOPSOIL STOCKPILES WITHIN THE RIGHT-OF-WAY MUST BE APPROVED BY THE ENGINEER.

ROADWAY EXCAVATION

- ALL EXISTING CULVERTS, STORM SEWERS, OR DRAINAGE STRUCTURES MARKED FOR REMOVAL ON THE PLANS OR DESIGNATED IN THE FIELD BY THE ENGINEER TO BE REMOVED SHALL BE REMOVED AND ANY EXCAVATION SHALL BE BACKFILLED WITH A GRANULAR MATERIAL MEETING THE SPECIFICATIONS FOR FA-1 OR FA-2. THE COST OF ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICES FOR STORM SEWER OR PIPE CULVERT UNLESS PAID FOR AS A SPECIFIC ITEM.
- ALL EXISTING GRANULAR AND BITUMINOUS MATERIALS TO BE REMOVED AND NOT PAID AS A SPECIFIC ITEM SHALL BE CONSIDERED EARTH EXCAVATION AND WILL BE PAID FOR AT THE UNIT PRICE FOR EARTH EXCAVATION. THE CONTRACTOR WILL HAVE THE OPTION OF REMOVING THE EXISTING BITUMINOUS MATERIAL BY GRINDING OR EXCAVATING THE MATERIAL. IF THE BITUMINOUS MATERIAL IS REMOVED BY EXCAVATION, IT MAY NOT BE USED IN EMBANKMENT AREAS UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER. BITUMINOUS MATERIAL REMOVED BY GRINDING MAY BE USED AS EMBANKMENT MATERIAL. NO BITUMINOUS MATERIAL SHALL BE REMOVED IN AREAS TO BE USED FOR TEMPORARY ROADWAY.
- THE CONTRACTOR SHALL NOT CROSS COMPLETED BASE COURSE OR EXISTING PAVEMENT NOT SCHEDULED TO BE REMOVED WITH LOADED SCRAPERS OR TRACK EQUIPMENT.
- ALL EMBANKMENTS AND SUB-GRADE SHALL BE COMPACTED TO THE SATISFACTION OF THE ENGINEER PRIOR TO PLACING AGGREGATE SUBGRADE OR SUB-BASE GRANULAR MATERIAL.

STORM SEWERS STRUCTURES UTILITIES

- THE STATION / OFFSET / ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED IN THE CURB LINE REFER TO THE POSITION OF THE ADJACENT PROPOSED EDGE OF PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY FOR THE STRUCTURES TO SET THE FRAME AND GRATES IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF THE STRUCTURE; ELEVATION INDICATES RIM GRADES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING SANITARY SEWERS, WATERMANS, AND STREET LIGHTS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR THE ADJUSTMENT, RELOCATION, OR EXTENSION OF THE UTILITY INVOLVED.
- THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE PROVIDED BY THE OWNERS. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE OWNER OF THE UTILITY.
- EMBANKMENTS SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER PRIOR TO EXCAVATION FOR STORM SEWER.
- THE COST OF MAKING STORM SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE STORM SEWER BEING CONNECTED.
- MANHOLES AND CATCH BASINS TYPE A WHERE THE DIFFERENCE BETWEEN THE RIM ELEVATION AND INVERT ELEVATION IS LESS THAN SIX (6) FEET, SHALL BE CONSTRUCTED WITH FLAT TOPS.
- ALL ADJUSTMENTS OR RECONSTRUCTIONS SHALL INCLUDE THE REMOVAL AND REPLACEMENT, AT THE CONTRACTOR'S EXPENSE, OF ALL UNSUITABLE TWO (2) FOOT INSIDE DIAMETER ADJUSTING RINGS.
- ADJUSTMENT OF STRUCTURES MAINTAINED BY OTHER AGENCIES SHALL BE MADE TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY MAINTAINING THE SYSTEM OF THE STRUCTURE INVOLVED.
- ALL MANHOLES AND INLETS SHALL HAVE POURED INVERTS. THE COST OF INVERTS SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.
- ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED AND CONNECTED TO PROPOSED DRAINAGE STRUCTURES, SEWERS, OR DITCHES, AS DIRECTED BY THE ENGINEER; THIS WORK WILL BE PAID FOR AT THE APPLICABLE CONTRACT UNIT PRICE OR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	2
SEC 03-00001-06-BT		DUPAGE COUNTY	

CONTRACT NO.: 83805

BITUMINOUS CONCRETE SURFACE COURSE AND BITUMINOUS BASE COURSE

- BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE SHALL NOT BE PLACED UNTIL ALL EARTH EXCAVATION, TOPSOIL PLACEMENT, AGGREGATE BASE COURSE, AND BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.
- THE MAXIMUM COMPACTED THICKNESS OF ANY LIFT OF BINDER OR SURFACE COURSE, SUPERPAVE SHALL BE 2.5 INCHES.
- THE MAXIMUM COMPACTED THICKNESS OF A LIFT OF BASE COURSE WILL BE FOUR (4) INCHES UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
- BASE COURSE SHALL NOT BE PLACED ADJACENT TO CURB AND GUTTER UNTIL THE CURB AND GUTTER HAS BEEN BACKFILLED TO THE SATISFACTION OF THE ENGINEER.

TRENCH BACKFILL

- WHERE TRENCH BACKFILL IS REQUIRED, THE MATERIAL USED SHALL BE COMPACTED AS SPECIFIED IN ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS USING METHOD ONE.

TRAFFIC CONTROL AND PROTECTION

- TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND SECTION 701 OF THE STANDARD SPECIFICATIONS AS AMENDED BY THE SPECIAL PROVISION FOR CONSTRUCTION ZONE TRAFFIC CONTROL (CHECK SHEET LRS 9).
- THE TYPE III BARRICADES ARE TO BE PLACED IN ACCORDANCE WITH STANDARD 702001 UNLESS AUTHORIZED BY THE ENGINEER TO USE AN ALTERNATE ARRANGEMENT.
- ANY DROP OFF GREATER THAN THREE (3) INCHES BUT LESS THAN SIX (6) INCHES, WITHIN EIGHT (8) FEET OF THE PAVEMENT EDGE, SHALL BE PROTECTED BY TYPE I OR TYPE II BARRICADES, DRUMS OR VERTICAL PANELS WITH MONODIRECTIONAL STEADY-BURN LIGHTS AT 100 FOOT CENTER TO CENTER SPACING. IF THE DROP OFF WITHIN EIGHT (8) FEET OF THE PAVEMENT EDGE EXCEEDS SIX (6) INCHES, THE BARRICADES, DRUMS OR VERTICAL PANELS MENTIONED ABOVE SHALL BE PLACED AT FIFTY (50) FOOT CENTER TO CENTER SPACING. BARRICADES THAT MUST BE PLACED IN EXCAVATED AREAS SHALL HAVE LEG EXTENSIONS INSTALLED SUCH THAT THE TOP OF THE BARRICADE IS IN COMPLIANCE WITH THE HEIGHT REQUIREMENTS OF STANDARD 702001.
- TYPE I OR TYPE II BARRICADES WITH TWO-WAY FLASHING LIGHTS SHALL BE REQUIRED AT ALL OPEN TRENCHES, EXCAVATIONS, OPEN OR EXPOSED SEWER STRUCTURES, TRANSVERSE PAVEMENT JOINTS, MATERIALS OR EQUIPMENT WITHIN THE RIGHT-OF-WAY (NUMBER AND SPACING DEPENDS ON THE CONDITIONS); AND AT LOCATIONS DESIGNATED BY THE ENGINEER OR LOCAL LAW ENFORCEMENT AGENCIES.
- TYPE I, II AND / OR III BARRICADES WITH TWO-WAY FLASHING LIGHTS WILL BE REQUIRED TO GUIDE TRAFFIC AWAY FROM PAVEMENT AREAS CLOSED FOR CONSTRUCTION.
- THE COST OF SUPPLYING, ERECTING, AND MAINTAINING BARRICADES, WARNING LIGHTS, AND SIGNS WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION.
- WHERE REQUIRED, TRAFFIC SIGNS SHALL BE RELOCATED FOR EACH STAGE OF CONSTRUCTION.
- ARROW BOARDS WILL BE REQUIRED WHEN IMPLEMENTING ALL LANE CLOSURES.
- THE FOLLOWING TRAFFIC CONTROL STANDARDS ARE THE MINIMUM REQUIREMENTS FOR THE TRAFFIC CONTROL FOR THIS PROJECT: 701101, 701106, 701301, 701606, 701701 & 702001.

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NO.		DATE	BY	REVISION	NO.		DATE	BY	REVISION	SCALE	 RJN GROUP, INC. CONSULTING ENGINEERS	PROJECT Southern DuPage County Regional Trail 101st Street Connector - Waterfall Glen Spur	TITLE GENERAL NOTES	DATE: JUNE 9, 2005	
NO.		DATE	BY	REVISION	NO.		DATE	BY	REVISION	DRAWN BY				DATE	PROJECT NO.: II-1900-01
NO.		DATE	BY	REVISION	NO.		DATE	BY	REVISION	CHECKED BY				DATE	SHEET:
NO.		DATE	BY	REVISION	NO.		DATE	BY	REVISION	APPROVED BY				DATE	

CONTRACT NO.: 83805

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	3

SUMMARY OF QUANTITIES

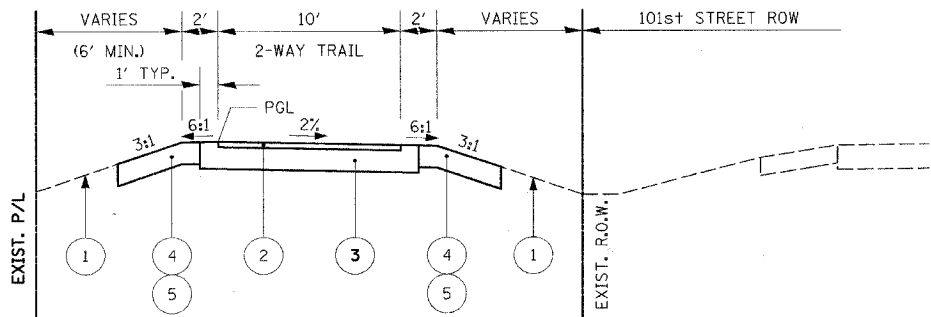
ITEM NO.	CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	Y047	Y007	Y047
					BIKE/PEDESTRIAN PATH	MINOR STRUCTURE	BIKE/PEDESTRIAN PATH (100% QNTY)
1	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)		330	330		
2	20101000	TEMPORARY FENCE	FOOT	1,000	1,000		
3	20200100	EARTH EXCAVATION	CU YD	2,809	2,809		
4	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,742	1,742		
5	20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	300	300		
6	20800150	TRENCH BACKFILL	CU YD	68	68		
7	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	7,617	7,617		
8	25000200	SEEDING, CLASS 2	ACRE	0.05	0.05		
9	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	5	5		
10	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	5	5		
11	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	5	5		
12	25000322	SEEDING, CLASS 5A	ACRE	1.52	1.52		
13	25000775	SELECTIVE MOWING STAKES	EACH	4	4		
14	25002014	SEEDING, CLASS 4A (MODIFIED)	ACRE	1.52	1.52		
15	25100630	EROSION CONTROL BLANKET	SQ YD	7,617	7,617		
16	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	166	166		
17	28000300	TEMPORARY DITCH CHECKS	EACH	20	20		
18	28000400	PERIMETER EROSION BARRIER	FOOT	6,865	6,865		
19	28000500	INLET AND PIPE PROTECTION	EACH	13	13		
20	28000510	INLET FILTERS	EACH	1	1		
21	35101500	AGGREGATE BASE COURSE, TYPE B	CU YD	826	826		
22	42400300	PORTLAND CEMENT CONCRETE SIDEWALK, 6 INCH	SQ FT	60	60		
23	42400800	DETECTABLE WARNINGS	SQ FT	20	20		
24	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	32	32		
25	50102400	CONCRETE REMOVAL	CU YD	1.4		1.4	
26	50800105	REINFORCEMENT BARS	POUND	3,830		3,830	
27	51000105	PIPE HANDRAIL	FOOT	33		33	
28	54002020	EXPANSION BOLTS 3/4 INCH	EACH	40		40	
29	54003000	CONCRETE BOX CULVERTS	CU YD	19.2		19.2	
30	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	5	5		
31	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	70	70		
32	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	7	7		

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES

ITEM NO.	CODE NUMBER	PAY ITEM	UNIT	TOTAL QUANTITY	Y047	Y007	Y047
					BIKE/PEDESTRIAN PATH	MINOR STRUCTURE	BIKE/PEDESTRIAN PATH (100% QNTY)
33	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	57	57		
34	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	10	10		
35	55100500	STORM SEWER REMOVAL 12"	FOOT	15	15		
36	55100700	STORM SEWER REMOVAL 15"	FOOT	6	6		
37	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
38	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
39	60250200	CATCH BASINS TO BE ADJUSTED	EACH	3	3		
40	60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2		
41	60255410	CATCH BASINS TO BE CLEANED	EACH	5			5
42	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	17	17		
43	63200310	GUARDRAIL REMOVAL	FOOT	71	71		
44	66400305	CHAIN LINK FENCE, 6'	FOOT	40	40		
45	66410300	CHAIN LINK FENCE REMOVAL	FOOT	193	193		
46	67100100	MOBILIZATION	L SUM	1	1		
47	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1		
48	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
49	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
50	Z0041700	PLUG EXISTING STORM SEWERS	EACH	2	2		
51	A2001720	TREE, ACER SACCHARUM (SUGAR MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12	12		
52	A2002366	TREE, BETULA NIGRA (RIVER BIRCH), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	20	20		
53	A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5		
54	A2004820	TREE, SKYLINE THORNLESS COMMON HONEYLOCUST, 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12	12		
55	A2006512	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-1/2" CALIPER, BALLED AND BURLAPPED	EACH	6	6		
56	A2007820	TREE, AMERICAN LINDEN/BASSWOOD, 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12	12		
57	C2005348	SHRUB, PRUNUS AMERICANA (AMERICAN PLUM) 4' HEIGHT, BALLED AND BURLAPPED	EACH	16	16		
58	C2008936	SHRUB, ROSA SETIGERA (PRAIRIE ROSE), 36" HEIGHT, BALLED AND BURLAPPED	EACH	3	3		
59	C2009636	SHRUB, SAMBUCUS CANADENSIS (AMERICAN ELDER) 3' HEIGHT, BALLED AND BURLAPPED	EACH	12	12		
60	C2012448	SHRUB, VIBURNUM LENTAGO (NANNYBERRY), 4' HEIGHT, BALLED AND BURLAPPED	EACH	6	6		
61	K0026505	WETLAND EMERGENT PLANTINGS	UNIT	300	300		
62	K1003679	MULCH	CU YD	7	7		
63	K1004595	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	L SUM	1	1		
64	XX003437	REMOVE AND REINSTALL EXISTING PRECAST REINFORCED CONCRETE FLARED END SECTIONS	EACH	1	1		
65	XX005676	RED-OSIER DOGWOOD	EACH	12	12		
66	X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	504	504		

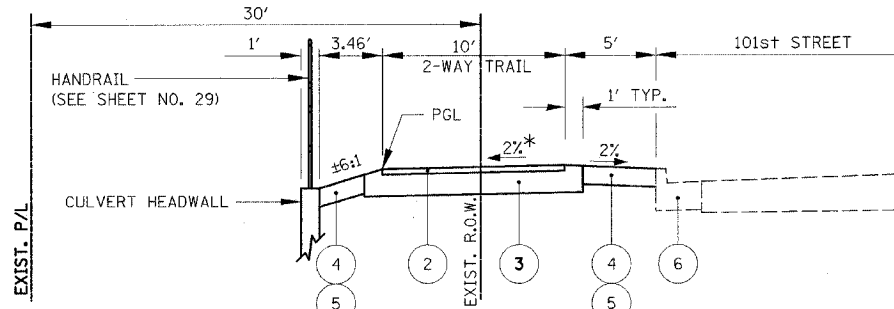
* DENOTES SPECIALTY ITEM



PROPOSED TYPICAL SECTION

(NOT TO SCALE)

TWO-WAY SHARED USE TRAIL FROM WOODWARD AVENUE TO LEMONT ROAD
STATION 1+00 TO 2+12.26
STATION 2+26.16 TO 41+53



PROPOSED TYPICAL SECTION

(NOT TO SCALE)
TWO-WAY SHARED USE TRAIL AT CULVERT HEADWALL
STATION 2+12.26 TO 2+26.16

BITUMINOUS MIXTURE REQUIREMENTS

PAY ITEM	AC TYPE	VOIDS	MAX RAP %
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	PG 64-22	4% @ 50 Gyr.	15

THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/INCH.

- ① EXISTING GRADE
- ② BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50 - 2"
- ③ AGGREGATE BASE COURSE, TYPE B - 6"
- ④ TOPSOIL EXCAVATION AND PLACEMENT - 6"
- ⑤ SEEDING
- ⑥ EXISTING COMBINATION CURB & GUTTER, TYPE B-6.24

* CROSS-SLOPE PATH 2% DOWN TO THE NORTH FROM STA. 1+81 TO STA. 3+67.

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NO.	DATE	BY	REVISION

SCALE	DRAWN BY	CHECKED BY	APPROVED BY
	JMC	MRH	DWB

RN GROUP, INC.
CONSULTING ENGINEERS

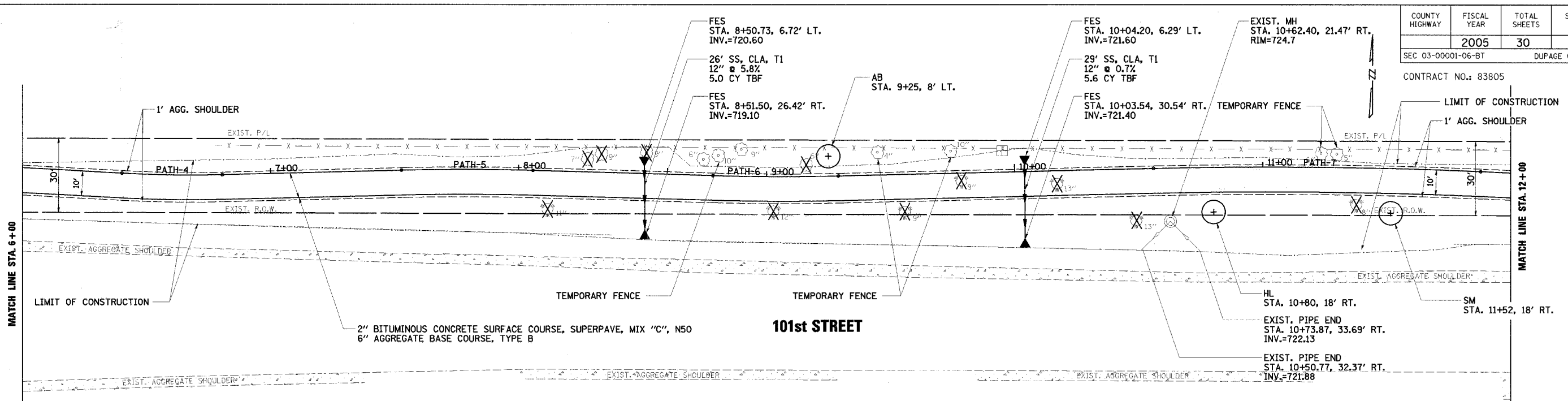
PROJECT: **Southern DuPage County Regional Trail**
101st Street Connector - Waterfall Glen Spur

TITLE: **SUMMARY OF QUANTITIES AND TYPICAL SECTIONS**

DATE: JUNE 9, 2005
PROJECT No.: II-1900-01
SHEET:

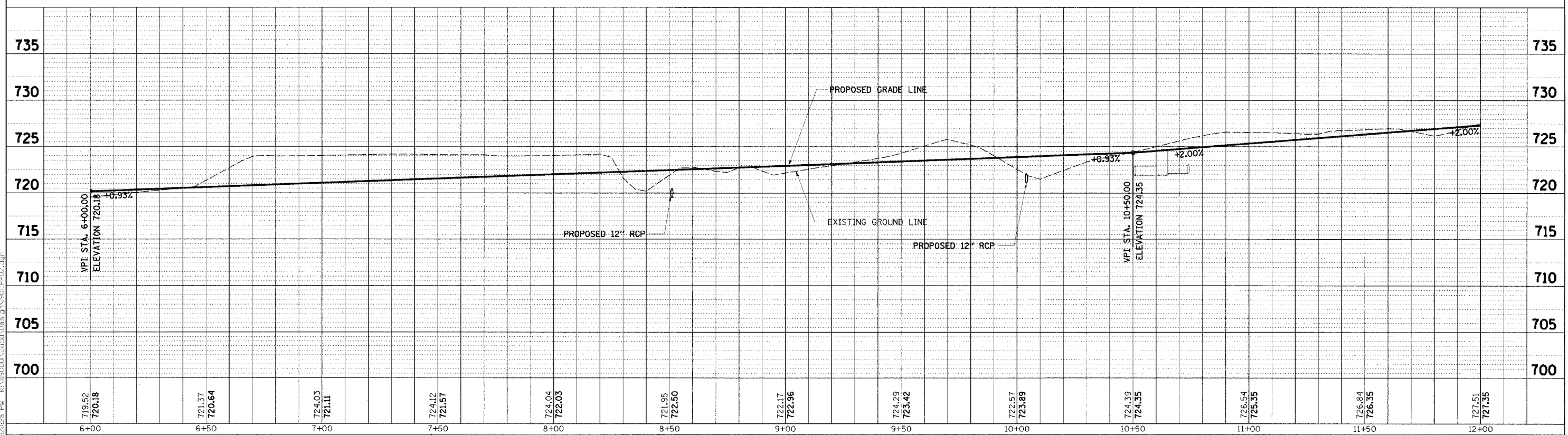
COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	6
SEC 03-00001-06-BT		DUPAGE COUNTY	

CONTRACT NO.: 83805



CURVE R_PATH-4	CURVE R_PATH-5	CURVE R_PATH-6	CURVE R_PATH-7
PI Sta. 6+60.37	PI Sta. 7+80.43	PI Sta. 9+04.78	PI Sta. 11+23.02
PI N 10,094.30	PI N 10,097.33	PI N 10,093.88	PI N 10,098.97
PI E 6,758.93	PI E 6,878.96	PI E 7,003.28	PI E 7,221.48
Δ 4° 37' 44.55" (LT)	Δ 3° 02' 19.06" (RT)	Δ 2° 55' 30.76" (LT)	Δ 3° 46' 41.11" (RT)
D 11° 27' 32.96"	D 5° 43' 46.48"	D 5° 47' 14.83"	D 2° 51' 53.24"
L 40.40'	L 53.03'	L 50.54'	L 131.88'
T 20.21'	T 26.52'	T 25.28'	T 65.96'
R 500.00'	R 1,000.00'	R 990.00'	R 2,000.00'
PC Sta. 6+40.16	PC Sta. 7+53.90	PC Sta. 8+79.50	PC Sta. 10+57.06
PC N 10,095.42	PC N 10,096.66	PC N 10,094.58	PC N 10,097.43
PC E 6,738.75	PC E 6,852.45	PC E 6,978.01	PC E 7,155.53
PT Sta. 6+80.56	PT Sta. 8+06.94	PT Sta. 9+30.04	PT Sta. 11+88.94
PT N 10,094.81	PT N 10,096.60	PT N 10,094.47	PT N 10,096.15
PT E 6,779.13	PT E 6,905.48	PT E 7,028.55	PT E 7,287.38

TREE PLANTING		
SYMBOL	COMMON NAME	QTY. THIS SHEET
HL	HONEYLOCUST	1 EACH
SM	SUGAR MAPLE	1 EACH
AB	AMERICAN BASSWOOD	1 EACH



NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION

SCALE: 1" = 20' H, 1" = 5' V

DRAWN BY: JMC DATE:

CHECKED BY: MRH DATE:

APPROVED BY: DWB DATE:

RN GROUP

RJN GROUP, INC.
CONSULTING ENGINEERS

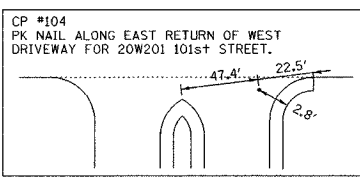
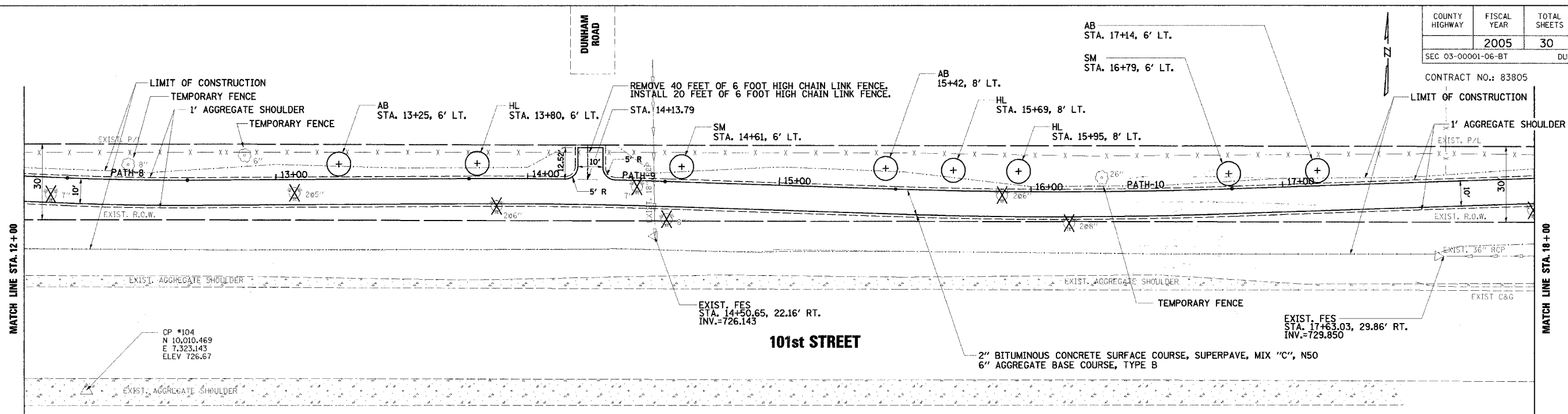
PROJECT: **Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur**

TITLE: **PLAN & PROFILE
STA. 6+00 - 12+00**

DATE: JUNE 9, 2005
PROJECT NO.: II-1900-01
SHEET:

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	7
SEC 03-0001-06-BT		DUPAGE COUNTY	

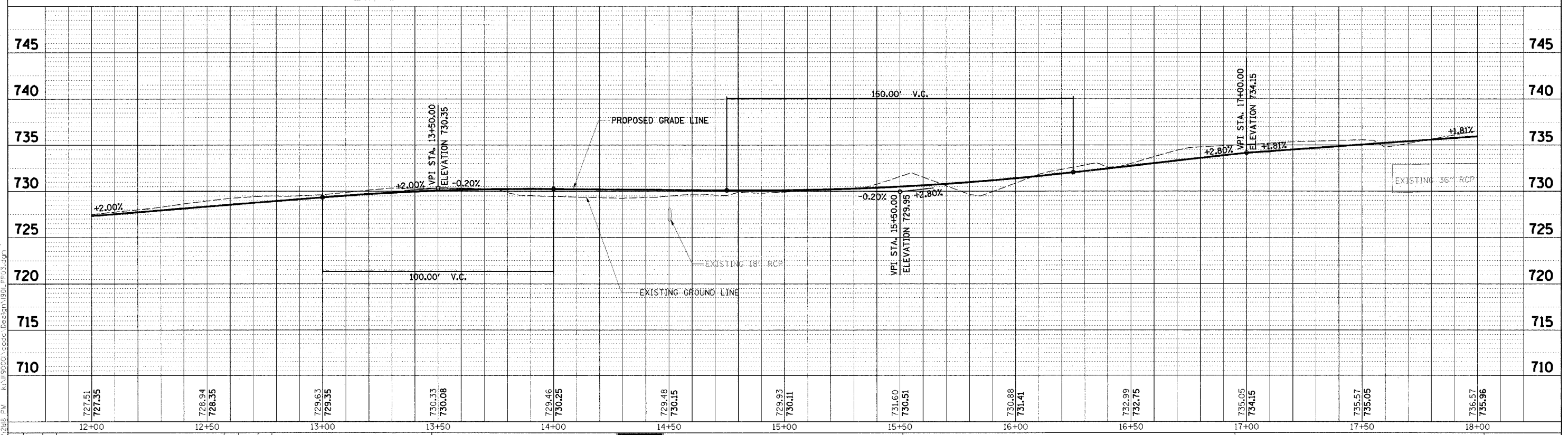
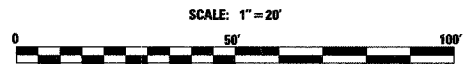
CONTRACT NO.: 83805



CURVE R-PATH-8	CURVE R-PATH-9	CURVE R-PATH-10
PI Sta. 12+42.03	PI Sta. 14+16.74	PI Sta. 16+13.59
PI N 10,093.89	PI N 10,094.85	PI N 10,088.27
PI E 7,340.43	PI E 7,519.15	PI E 7,711.89
Δ 2° 45' 32.86" (LT)	Δ 2° 13' 52.62" (RT)	Δ 2° 52' 39.94" (LT)
D 5° 47' 14.83"	D 2° 51' 53.24"	D 2° 52' 45.07"
L 47.67'	L 77.89'	L 134.68'
T 23.84'	T 38.95'	T 67.37'
R 990.00'	R 2,000.00'	R 1,990.00'
PC Sta. 12+18.19	PC Sta. 13+77.80	PC Sta. 15+46.22
PC N 10,094.91	PC N 10,094.64	PC N 10,090.52
PC E 7,316.61	PC E 7,476.20	PC E 7,644.56
PT Sta. 12+68.87	PT Sta. 14+55.68	PT Sta. 16+80.90
PT N 10,094.02	PT N 10,093.55	PT N 10,090.58
PT E 7,364.27	PT E 7,554.07	PT E 7,779.22

TREE PLANTING		
SYMBOL	COMMON NAME	QTY. THIS SHEET
SM	SUGAR MAPLE	2 EACH
HL	HONEYLOCUST	3 EACH
AB	AMERICAN BASSWOOD	3 EACH

LEGEND
 ✕ - REMOVE TREE
 - x - - - EXISTING CHAIN LINK FENCE



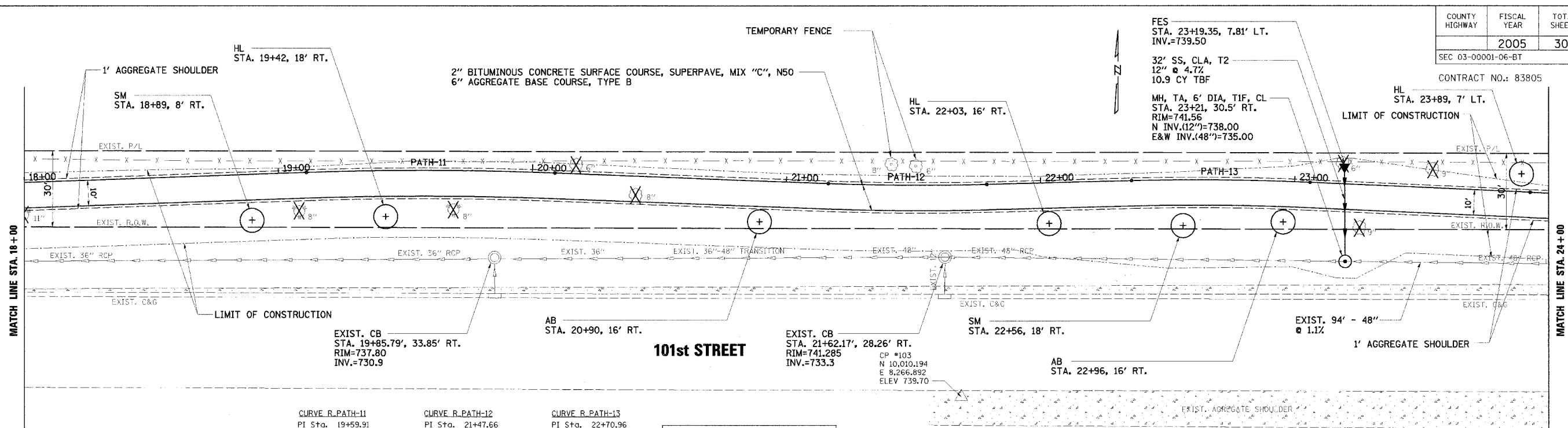
NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION	SCALE	1" = 20' H	1" = 5' V	PROJECT	TITLE	DATE	JUNE 9, 2005
											Southern DuPage County Regional Trail 101st Street Connector - Waterfall Glen Spur	PLAN & PROFILE STA. 12+00 - 18+00	PROJECT No.	II-1900-01
													SHEET	

RN GROUP, INC.
 CONSULTING ENGINEERS

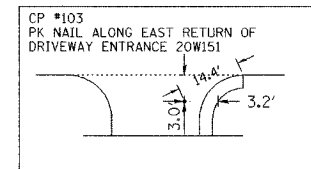
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COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	8
SEC 03-00001-06-BT		DUPAGE COUNTY	

CONTRACT NO.: 83805

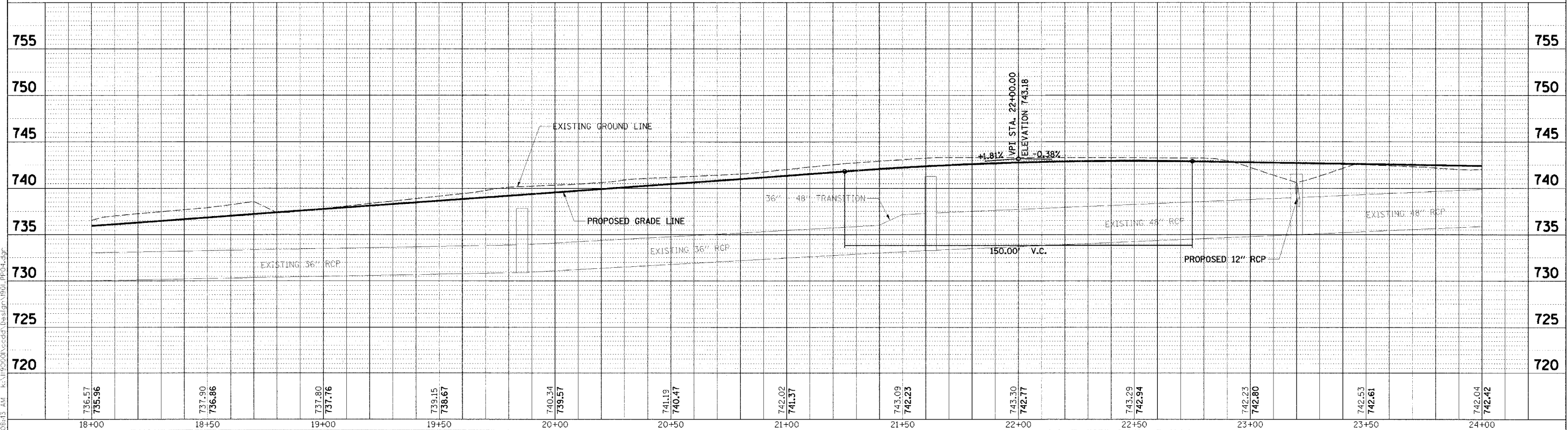
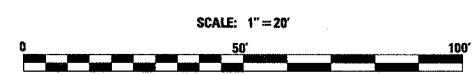


CURVE R-PATH-11	CURVE R-PATH-12	CURVE R-PATH-13
PI Sta. 19+59.91	PI Sta. 21+47.66	PI Sta. 22+70.96
PI N 10,100.13	PI N 10,093.05	PI N 10,096.17
PI E 8,058.06	PI E 8,245.72	PI E 8,369.00
Δ 4° 07' 19.16" (RT)	Δ 3° 36' 36.55" (LT)	Δ 4° 01' 24.81" (RT)
D 4° 12' 46.53"	D 5° 47' 14.83"	D 5° 43' 46.48"
L 97.84'	L 62.38'	L 70.22'
T 48.94'	T 31.20'	T 35.13'
R 1,360.00'	R 990.00'	R 1,000.00'
PC Sta. 19+10.97	PC Sta. 21+16.46	PC Sta. 22+35.83
PC N 10,098.45	PC N 10,094.23	PC N 10,095.28
PC E 8,009.15	PC E 8,214.54	PC E 8,333.88
PT Sta. 20+08.81	PT Sta. 21+76.84	PT Sta. 23+06.05
PT N 10,098.28	PT N 10,093.84	PT N 10,094.60
PT E 8,106.97	PT E 8,276.91	PT E 8,404.09



TREE PLANTING		
SYMBOL	COMMON NAME	QTY. THIS SHEET
SM	SUGAR MAPLE	2 EACH
HL	HONEYLOCUST	3 EACH
AB	AMERICAN BASSWOOD	2 EACH

LEGEND
 X - REMOVE TREE
 - X - X - EXISTING CHAIN LINK FENCE



NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION

SCALE 1" = 20' H
 1" = 5' V
 DRAWN BY JMC DATE
 CHECKED BY MRH DATE
 APPROVED BY DWB DATE

RN GROUP
RJN GROUP, INC.
CONSULTING ENGINEERS

PROJECT
Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur

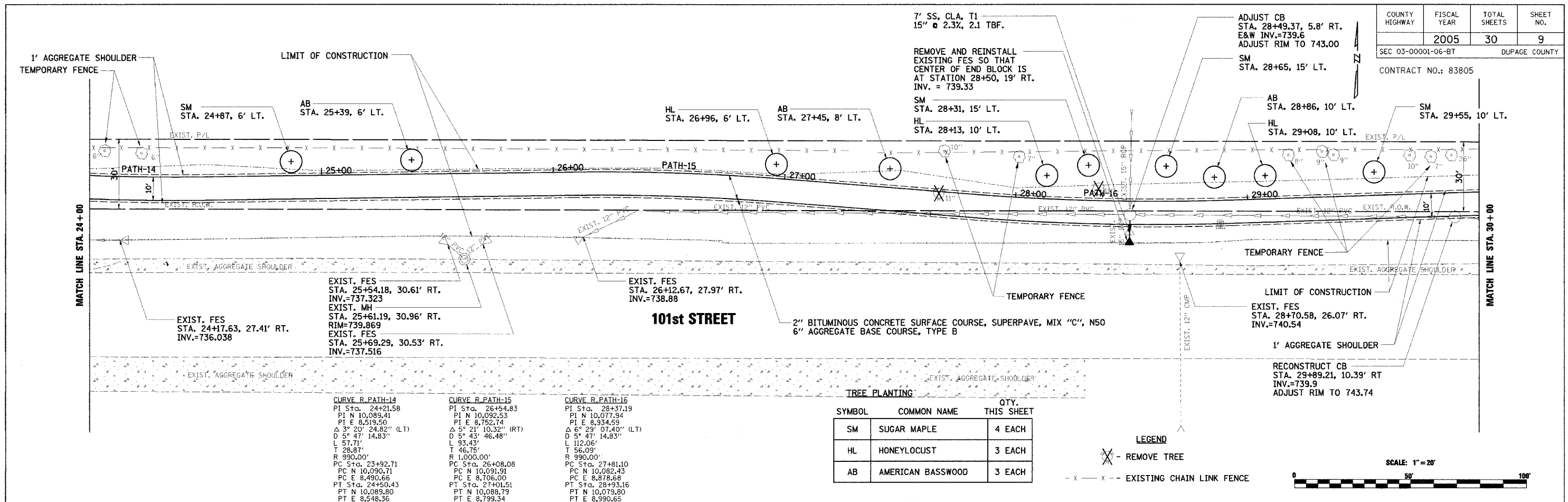
TITLE
PLAN & PROFILE
STA. 18+00 - 24+00

DATE: JUNE 9, 2005
 PROJECT No.: II-1900-01
 SHEETS:

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COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	9
SEC 03-00001-06-BT		DUPAGE COUNTY	

CONTRACT NO.: 83805



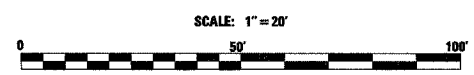
TREE PLANTING

SYMBOL	COMMON NAME	QTY. THIS SHEET
SM	SUGAR MAPLE	4 EACH
HL	HONEYLOCUST	3 EACH
AB	AMERICAN BASSWOOD	3 EACH

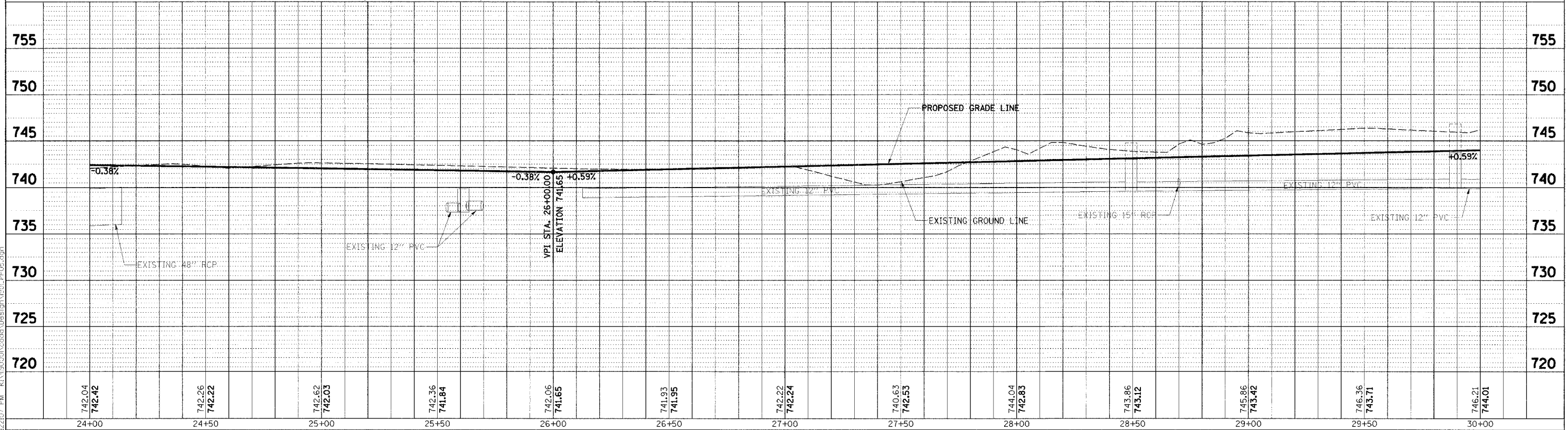
LEGEND

X - REMOVE TREE

- X - X - EXISTING CHAIN LINK FENCE



CURVE R. PATH-14	CURVE R. PATH-15	CURVE R. PATH-16
PI Sta. 24+21.58	PI Sta. 26+54.83	PI Sta. 28+37.19
PI N 10,089.41	PI N 10,092.53	PI N 10,077.94
PI E 8,519.50	PI E 8,752.74	PI E 8,934.59
Δ 3° 20' 24.82" (LT)	Δ 5° 21' 10.32" (RT)	Δ 6° 29' 07.40" (LT)
D 5° 47' 14.83"	D 5° 43' 46.48"	D 5° 47' 14.83"
L 57.71'	L 93.43'	L 112.06'
T 28.87'	T 46.75'	T 56.09'
R 990.00'	R 1,000.00'	R 990.00'
PC Sta. 23+92.71	PC Sta. 26+08.08	PC Sta. 27+81.10
PC N 10,090.71	PC N 10,091.91	PC N 10,082.43
PC E 8,490.66	PC E 8,706.00	PC E 8,878.68
PT Sta. 24+50.43	PT Sta. 27+01.51	PT Sta. 28+93.16
PT N 10,089.80	PT N 10,088.79	PT N 10,079.80
PT E 8,548.56	PT E 8,799.54	PT E 8,990.65



NO.	DATE	BY	REVISION

SCALE: 1" = 20' H, 1" = 5' V

RJN GROUP, INC.
CONSULTING ENGINEERS

Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur

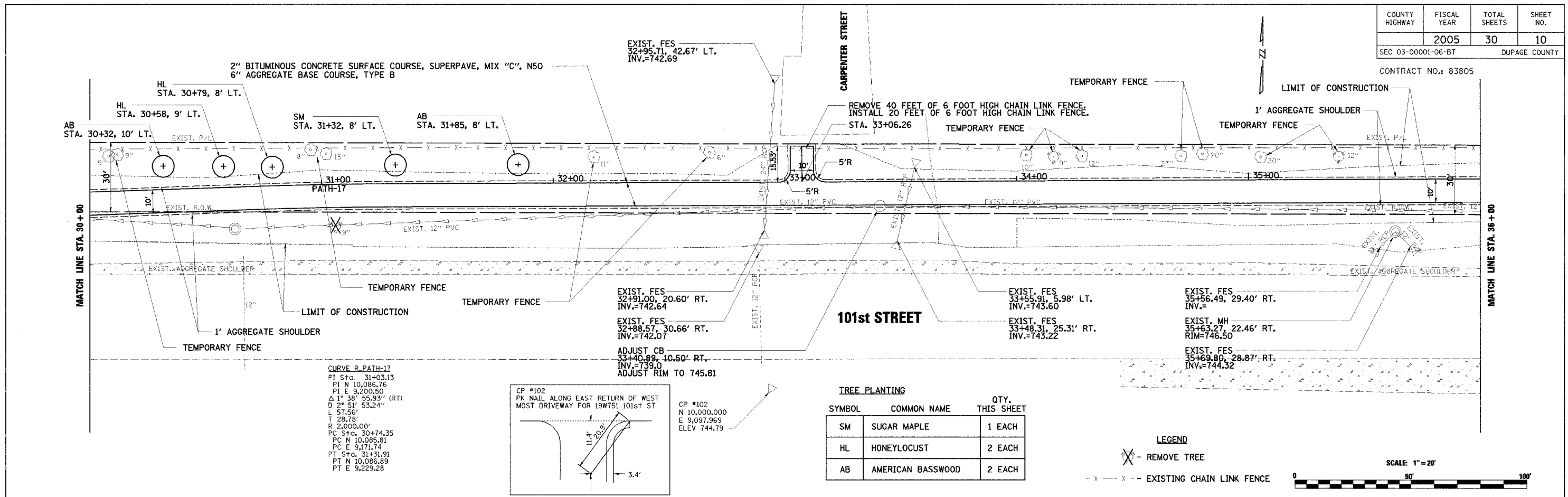
PLAN & PROFILE
STA. 24 + 00 - 30 + 00

DATE: JUNE 9, 2005
PROJECT No.: II-900-01
SHEET:

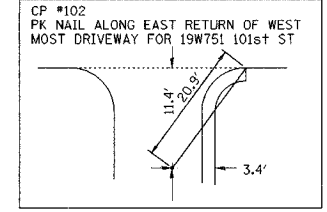
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COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	10
SEC 03-00001-06-BT		DUPAGE COUNTY	

CONTRACT NO.: 83805



CURVE R-PATH-17
 PI Sta. 31+03.13
 PI N 10,086.76
 PI E 9,200.50
 Δ 1° 38' 55.93" (RT)
 D 2° 51' 53.24"
 L 57.56'
 T 28.78'
 R 2,000.00'
 PC Sta. 30+74.35
 PC N 10,085.81
 PC E 9,171.74
 PT Sta. 31+31.91
 PT N 10,086.89
 PT E 9,229.28

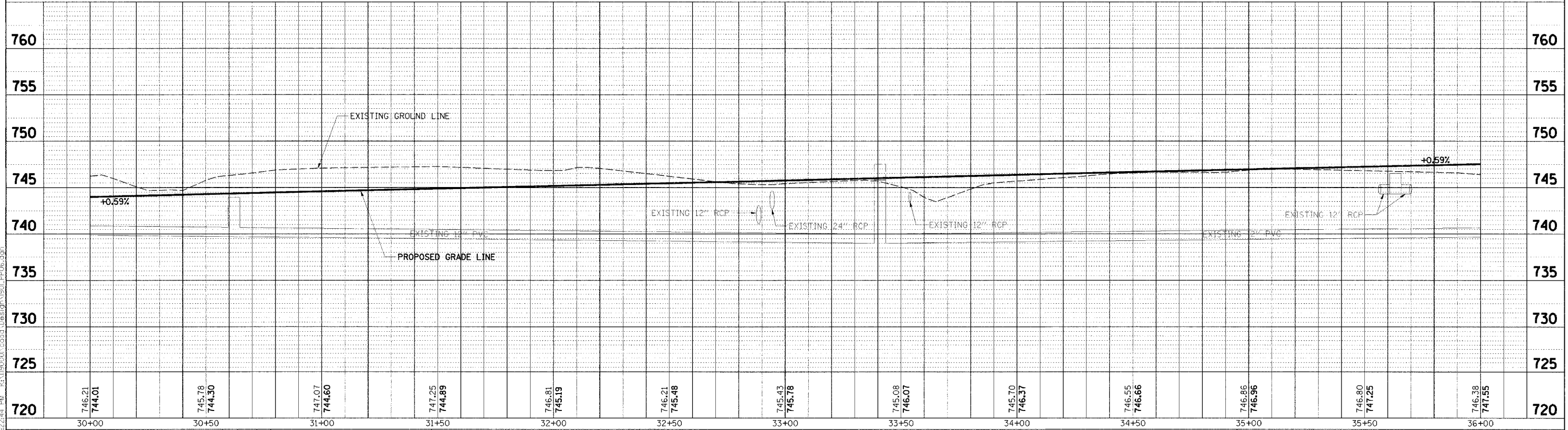
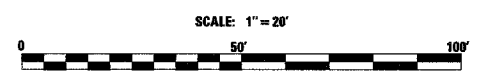


CP #102
 N 10,000.000
 E 9,097.969
 ELEV 744.79

TREE PLANTING

SYMBOL	COMMON NAME	QTY. THIS SHEET
SM	SUGAR MAPLE	1 EACH
HL	HONEYLOCUST	2 EACH
AB	AMERICAN BASSWOOD	2 EACH

LEGEND
 ✕ - REMOVE TREE
 - x - x - - EXISTING CHAIN LINK FENCE



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NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION

SCALE	H = 20'	V = 5'
DRAWN BY	JMC	DATE
CHECKED BY	MRH	DATE
APPROVED BY	DWB	DATE

PROJECT	Southern DuPage County Regional Trail 101st Street Connector - Waterfall Glen Spur
TITLE	PLAN & PROFILE STA. 30 + 00 - 36 + 00
DATE	JUNE 9, 2005
PROJECT No.	II-1900-01
SHEET	

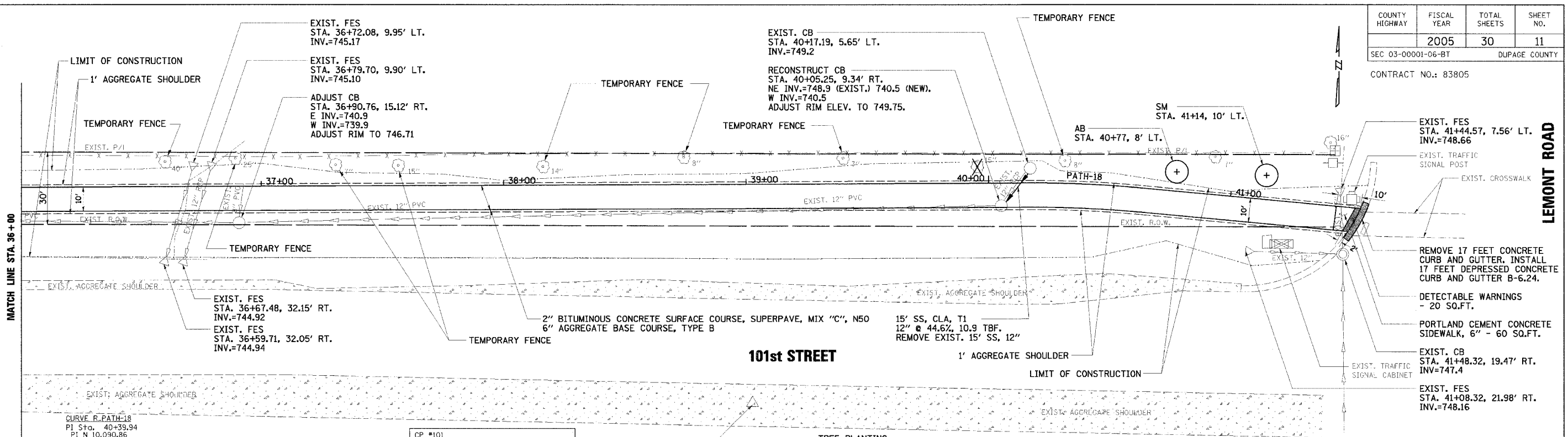


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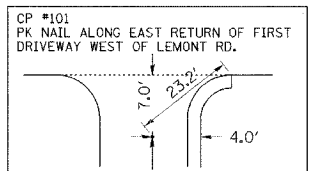
COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	11
SEC 03-00001-06-BT		DUPAGE COUNTY	

CONTRACT NO.: 83805

LEMONT ROAD



CURVE R-PATH-18
 PI Sta. 40+39.94
 PI N 10,090.86
 PI E 10,137.30
 Δ 5° 37' 03.89" (RT)
 D 11° 27' 32.96"
 L 49.04'
 T 24.54'
 R 500.00'
 PC Sta. 40+15.40
 PC N 10,090.75
 PC E 10,112.76
 PT Sta. 40+64.44
 PT N 10,088.56
 PT E 10,161.73

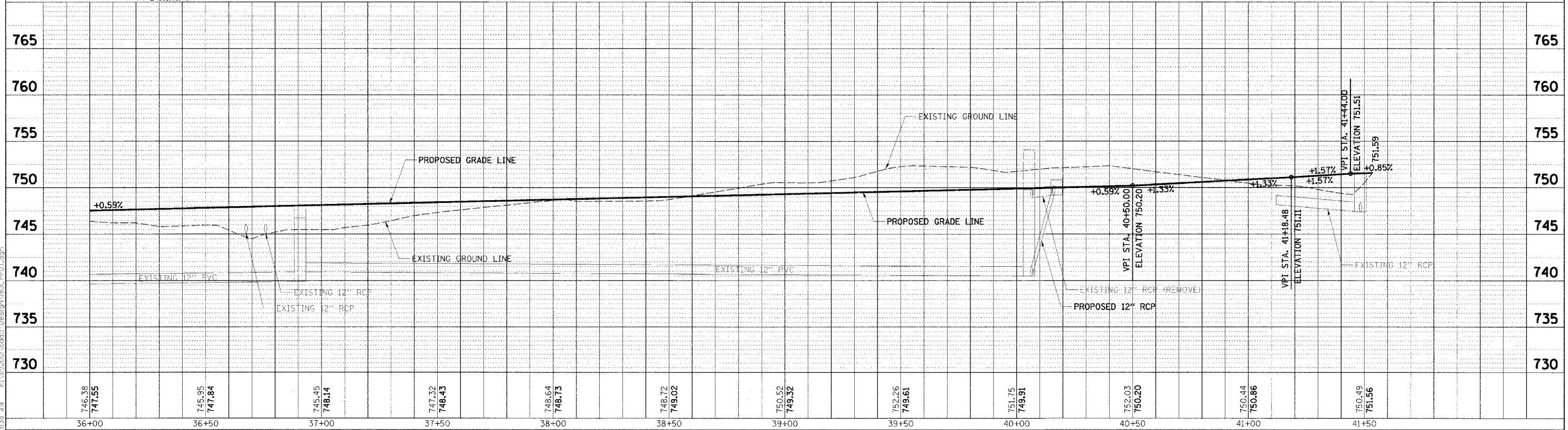
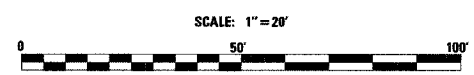


CP #101
 N 10,000,000
 E 10,000,000
 ELEV 750.76

TREE PLANTING

SYMBOL	COMMON NAME	QTY. THIS SHEET
SM	SUGAR MAPLE	1 EACH
AB	AMERICAN BASSWOOD	1 EACH

LEGEND
 X - REMOVE TREE



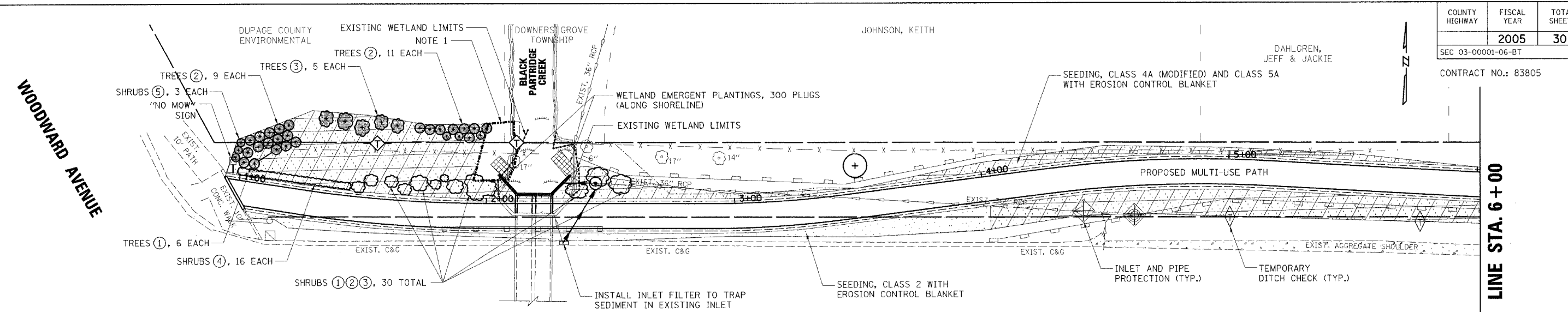
NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION	SCALE	H	V	PROJECT	TITLE	DATE	PROJECT No.	SHEET
								1" = 20'			Southern DuPage County Regional Trail 101st Street Connector - Waterfall Glen Spur	PLAN & PROFILE 36+00 - 41+57.13	JUNE 9, 2005	II-1900-01	



RJN GROUP, INC.
 CONSULTING ENGINEERS

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CONTRACT NO.: 83805



NOTE 1:
 WITHIN THIS BOUNDARY, PROVIDE EROSION CONTROL BLANKET MANUFACTURED BY NORTH AMERICAN GREEN (S150) OR APPROVED EQUAL TOTTALLING APPROXIMATELY 40 SQUARE YARDS. EROSION CONTROL BLANKET FOR THE REMAINDER OF THE PROJECT SHALL BE NORTH AMERICAN GREEN (S75) OR APPROVED EQUAL.

101st STREET

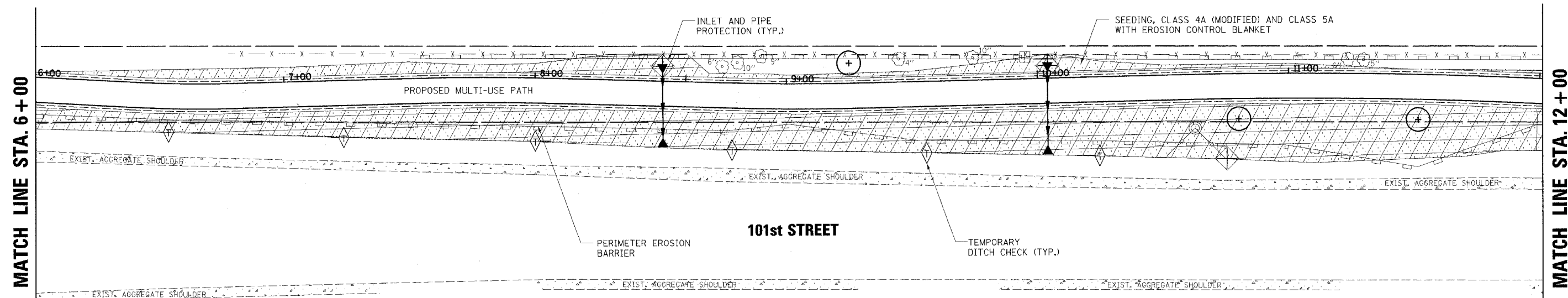
- LEGEND**
- SEEDING, IDOT CLASS 2
 - SEEDING, IDOT CLASS 4A (MODIFIED) AND CLASS 5A
 - WETLAND EMERGENT PLANTINGS
 - PLANTINGS, SHRUBS

SOIL STABILIZATION CHART		
SEEDING MIX	RATE OF APPLICATION	PLANTING DATES
TEMPORARY EROSION CONTROL SEEDING	115 LB / ACRE	APR 1 st - APR 15 th AUG 15 th - SEP 30 th
SEEDING, CLASS 2	200 LB / ACRE	APR 1 st - APR 15 th AUG 15 th - SEP 30 th
SEEDING, CLASS 4A (MODIFIED)	5 LB / ACRE	MAY 15 th - JUNE 30 th OCT 15 th - DEC 1 st
SEEDING, CLASS 5A	76 LB / ACRE	MAY 15 th - JUNE 30 th OCT 15 th - DEC 1 st

SEQUENCE OF CONSTRUCTION

1. INSTALL EROSION CONTROL MEASURES (PERIMETER EROSION BARRIER, TEMPORARY DITCH CHECKS AND INLET & PIPE PROTECTION) TO REMAIN UNTIL THE ENTIRE AREA IS STABILIZED.
2. TREE REMOVAL & TREE TRUNK PROTECTION.
3. CONSTRUCTION LAYOUT.
4. TRAFFIC CONTROL SIGNING & BARRICADES.
5. REMOVE CURB & GUTTER.
6. ROUGH GRADING AND EARTH EXCAVATION. WORK ON THE BANK OF BLACK PARTRIDGE CREEK MUST BE TIMED TO TAKE PLACE DURING LOW FLOW CONDITIONS. NO EXCAVATION EQUIPMENT SHALL BE ALLOWED WITHIN THE WETLAND LIMITS.
7. DEWATER CONSTRUCTION AREA. STREAM FLOW MUST BE ISOLATED FROM THE WORK AREA USING A SANDBAG COFFERDAM OR OTHER NON-ERODABLE COFFERDAM APPROVED BY KDSWCD. THE SANDBAG COFFERDAM SHALL BE CONSTRUCTED A MINIMUM OF ONE FOOT ABOVE THE NORMAL WATER LEVEL. WATER SHALL BE PUMPED FROM THE CREEK INTO THE EXISTING DUAL BOX CULVERT AND SHALL BE FILTERED BEFORE DISCHARGE. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN EARTH EXCAVATION.
8. INSTALL STONE BASE AND PRECAST BOXES.
9. INSTALL HEADWALL, WINGWALLS AND HANDRAIL.
10. BACKFILL HEADWALLS AND WINGWALLS.
11. INSTALL TRAIL & REPLACE CURB & GUTTER.
12. BACKFILL TRAIL.
13. TOPSOIL, EROSION CONTROL BLANKET & SEED PRIOR TO CREEK ACCEPTING FLOWS.
14. PLANT TREES, SHRUBS AND EMERGENT PLANTINGS.

- PLANTINGS, SHRUBS (49)**
- ① RED-OSIER DOGWOOD (12 EACH)
 - ② AMERICAN ELDER (12 EACH)
 - ③ NANNYBERRY (6 EACH)
 - ④ AMERICAN PLUM (16 EACH)
 - ⑤ PRAIRIE ROSE (3 EACH)
- PLANTINGS, TREES (31)**
- ① SWAMPED WHITE OAK (6 EACH)
 - ② RIVER BIRCH (20 EACH)
 - ③ HACKBERRY (5 EACH)



NOTE: TREES NEAR THE PROPOSED MULT-USE PATH SHALL BE PRUNED FOR SAFETY AND EQUIPMENT CLEARANCE AS SHOWN ON SHEET NO. 30

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NO.	DATE	BY	REVISION

SCALE	1" = 20'		
DRAWN BY	JMC	DATE	
CHECKED BY	MRH	DATE	
APPROVED BY	DWB	DATE	



RJN GROUP, INC.
 CONSULTING ENGINEERS

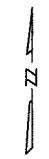
PROJECT: **Southern DuPage County Regional Trail
 101st Street Connector - Waterfall Glen Spur**

TITLE: **LANDSCAPING AND
 EROSION CONTROL PLAN**

DATE: JUNE 9, 2005
 PROJECT NO.: 11-1900-01
 SHEET:

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	13
SEC 03-00001-06-BT		DUPAGE COUNTY	

CONTRACT NO.: 83805

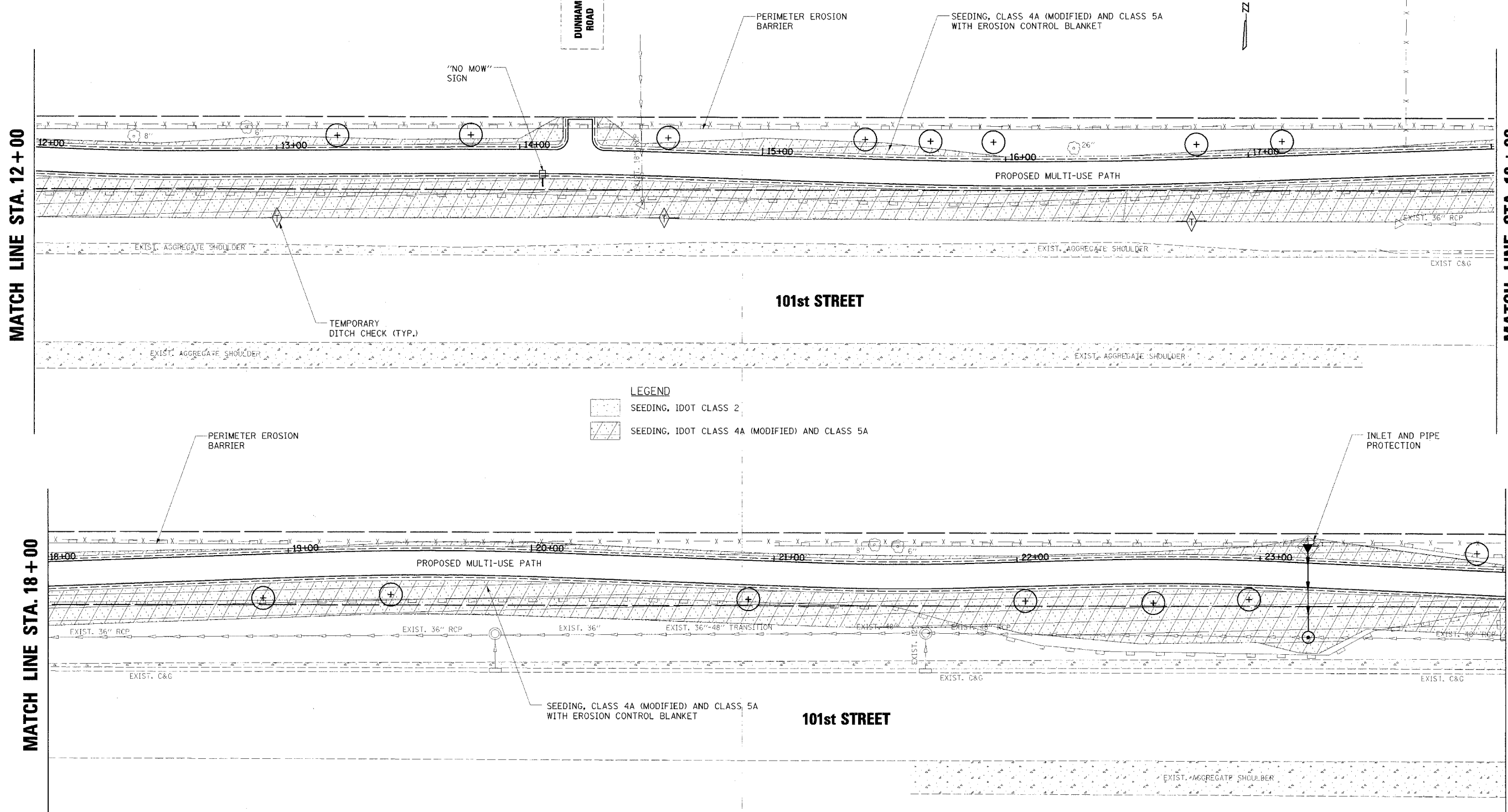


MATCH LINE STA. 12+00

MATCH LINE STA. 18+00

MATCH LINE STA. 18+00

MATCH LINE STA. 24+00



LEGEND

	SEEDING, IDOT CLASS 2
	SEEDING, IDOT CLASS 4A (MODIFIED) AND CLASS 5A

8/10/2005 12:24:53 PM K:\11800001\06\06\01\Design\101_ER02.dgn

NO.	DATE	BY	REVISION

SCALE	1" = 20'
DRAWN BY	JMC
CHECKED BY	MRH
APPROVED BY	DWB



R/N GROUP, INC.
CONSULTING ENGINEERS

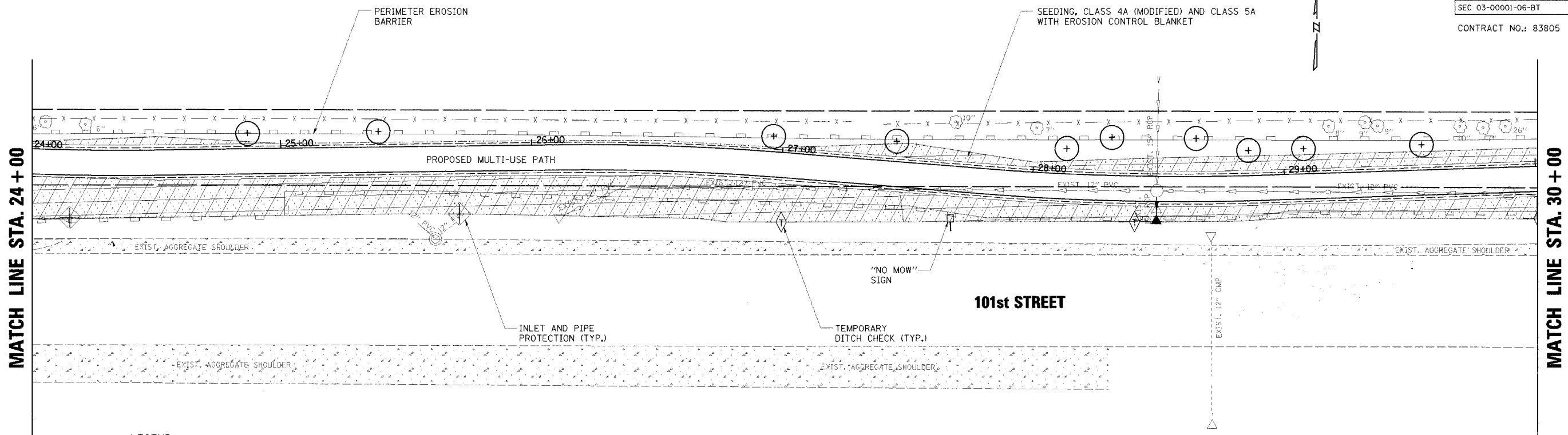
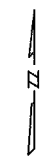
PROJECT
**Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur**

TITLE
**LANDSCAPING AND
EROSION CONTROL PLAN**

DATE	JUNE 9, 2005
PROJECT No.	11-1900-01
SHEET	

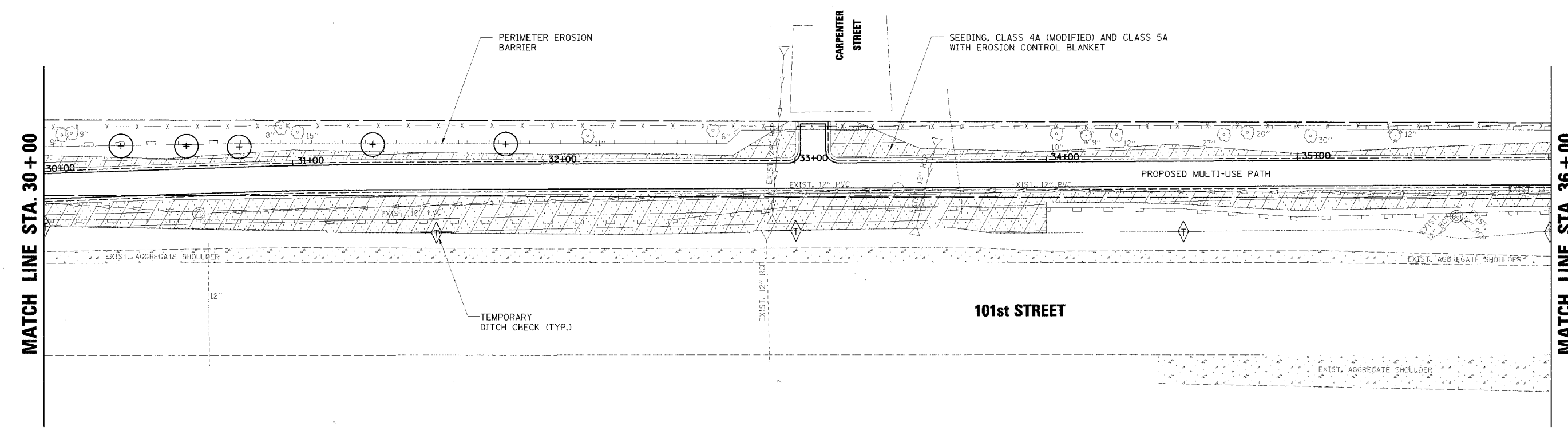
COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	14
SEC 03-00001-06-BT		DUPAGE COUNTY	

CONTRACT NO.: 83805



LEGEND

	SEEDING, IDOT CLASS 2
	SEEDING, IDOT CLASS 4A (MODIFIED) AND CLASS 5A



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NO.	DATE	BY	REVISION

SCALE	1" = 20'
DRAWN BY	JMC DATE
CHECKED BY	MRH DATE
APPROVED BY	DWB DATE





RJN GROUP, INC.
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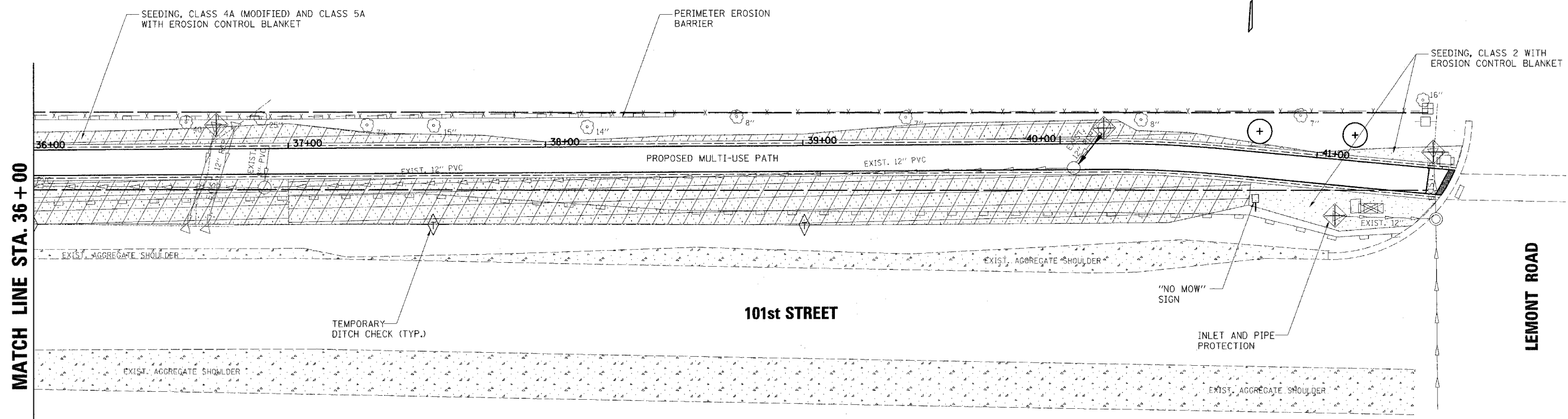
PROJECT
**Southern DuPage County Regional Trail
101st Street Connector – Waterfall Glen Spur**

TITLE
**LANDSCAPING AND
EROSION CONTROL PLAN**

DATE:	JUNE 9, 2005
PROJECT No.:	11-1900-01
SHEET:	

CONTRACT NO.: 83805

- LEGEND**
-  SEEDING, IDOT CLASS 2
 -  SEEDING, IDOT CLASS 4A (MODIFIED) AND CLASS 5A



MATCH LINE STA. 36 + 00

LEMONT ROAD

101st STREET

EROSION CONTROL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 15-116 OF THE DU PAGE COUNTY COUNTYWIDE STORM WATER AND FLOOD PLAIN ORDINANCE, EFFECTIVE SEPTEMBER 24, 1991 AND ALL SUBSEQUENT REVISIONS. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED PER IDOT STANDARD 280001 OR AS SPECIFIED HEREIN AND PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT ILR40.
2. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL.
3. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.
4. ALL DISTURBED AREAS SHALL BE SEED OR SODDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE SEED EVERY 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING. ERODABLE AREAS OUTSIDE AND DOWN SLOPE FROM THE CONSTRUCTION LIMITS SHALL BE SIMILARLY SEEDDED.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS TO REMAIN FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT OR BY HIS WORK CREWS. THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF IN WETLANDS.
6. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
7. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.
8. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY AND AS NEEDED.
9. CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.
10. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
11. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE FILTER DEVICE.
12. THE ENGINEER SHALL INSPECT EROSION CONTROL MEASURES PERIODICALLY AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 72 HOURS. EROSION CONTROL SYSTEMS REPLACED DUE TO SEDIMENT LOADING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
13. THE COST OF REPAIRING OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
14. ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
15. ALL DISTURBED AREAS SHALL BE DRESSED WITH 6" OF TOPSOIL, SEEDDED AND COVERED WITH AN EROSION CONTROL BLANKET STAPLED DOWN PER THE MANUFACTURER'S RECOMMENDATION.
16. OMIT FERTILIZER FOR CLASS 4A (MODIFIED) AND CLASS 5A SEEDING.
17. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. THE STREAM BANKS SHOULD BE STABILIZED AT THE END OF EACH DAY. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
18. THE KANE AND DUPAGE SOIL & WATER CONSERVATION DISTRICT (DSWCD) MUST BE IN AGREEMENT WITH OVERALL EXACT METHOD OF DIVERSION/ISOLATION AND CONTACTED 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
19. THE EROSION CONTROL BLANKET SHALL BE AN EXCELSIOR BLANKET MEETING THE REQUIREMENTS AS SPECIFIED IN ARTICLE 1081.10 OF THE STANDARD SPECIFICATIONS. THE BLANKET SHALL BE COVERED ON THE TOP SIDE WITH A 90 DAY BIODEGRADABLE EXTRUDED PLASTIC MESH NETTING WITH A MINIMUM OPENING OF 3/8" X 3/8" AND A MAXIMUM OPENING OF 2" X 1". THE MINIMUM REQUIRED WEIGHT IS 0.63 LB/SY AND MINIMUM ROLL DIMENSION IS 2" X 45'.
20. IN THE EVENT THAT THE PROJECT WILL NOT BE COMPLETED BEFORE WINTER SHUTDOWN, ALL SLOPES AND BARE EARTH AREAS SHALL BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER IN ACCORDANCE WITH THE SOIL STABILIZATION CHART FOR PROPER EROSION AND SEDIMENT CONTROL.
21. THE ROADWAY INLET IN THE NORTH CURB LINE OF 101ST STREET JUST EAST OF THE EXISTING DUAL 6' X 6' CULVERT SHALL BE PROTECTED WITH AN INLET FILTER THROUGHOUT THE DURATION OF THE PROJECT.
22. STRAW BALES ARE EXCLUDED AS AN OPTION FOR TEMPORARY DITCH CHECKS.
23. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.
24. THE KDSWCD MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. PHONE NUMBER: (630) 584-7961 EXTENSION #3.
25. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
26. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
27. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.

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NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

SCALE: 1" = 20'

DRAWN BY: JMC DATE: _____

CHECKED BY: MRH DATE: _____

APPROVED BY: DWB DATE: _____

RN GROUP

RJN GROUP, INC.
CONSULTING ENGINEERS

PROJECT: **Southern DuPage County Regional Trail**
101st Street Connector - Waterfall Glen Spur

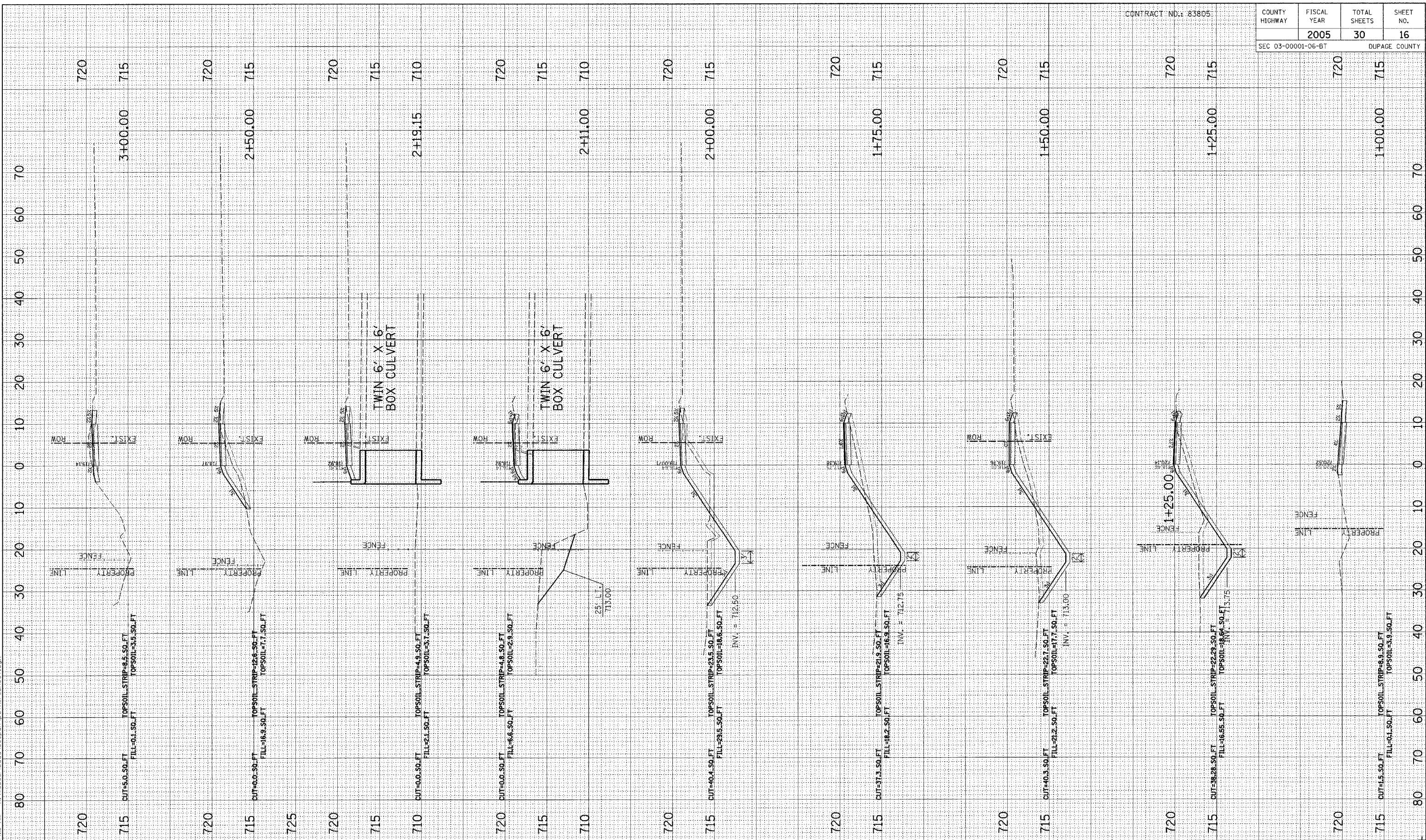
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DATE: JUNE 9, 2005
PROJECT No.: 11-1900-01
SHEET:

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CONTRACT NO.: 83805

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
SEC 03-0001-06-BT	2005	30	16
			DUPAGE COUNTY



NO.	DATE	BY	REVISION

SCALE: 1" = 10' H
1" = 5' V
DRAWN BY: BH DATE: 04/04/05
CHECKED BY: JC DATE:
APPROVED BY: DWB DATE:



RJN GROUP, INC.
CONSULTING ENGINEERS

PROJECT: **Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur**

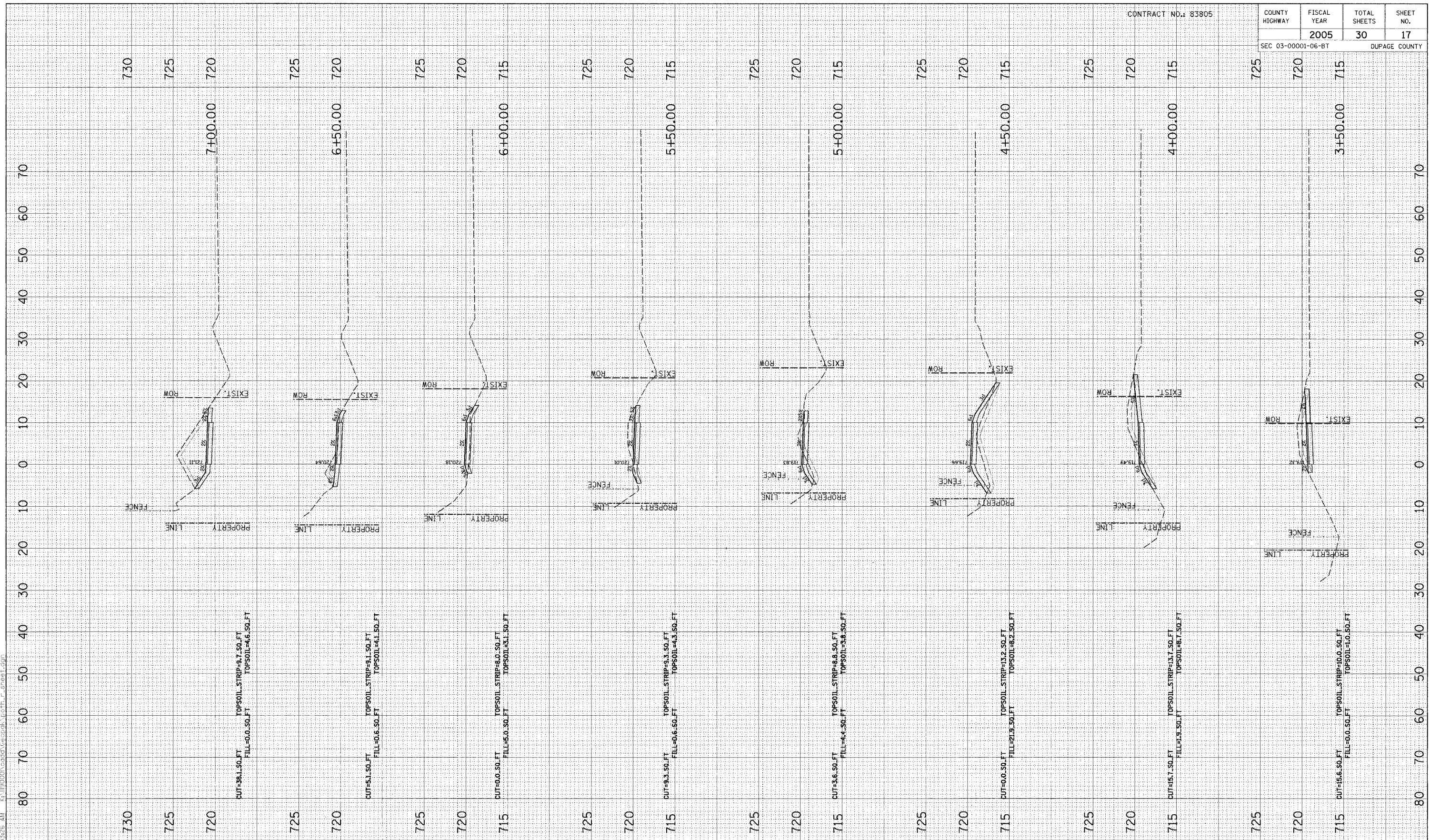
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DATE: JUNE 9, 2005
PROJECT NO.: 11-1900-01
SHEET

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CONTRACT NO.: 83805

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
SEC 03-00001-06-BT	2005	30	17
		DUPAGE COUNTY	



NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

SCALE 1" = 10' H 1" = 5' V

DRAWN BY BH DATE 04/04/05

CHECKED BY JC DATE

APPROVED BY DWB DATE

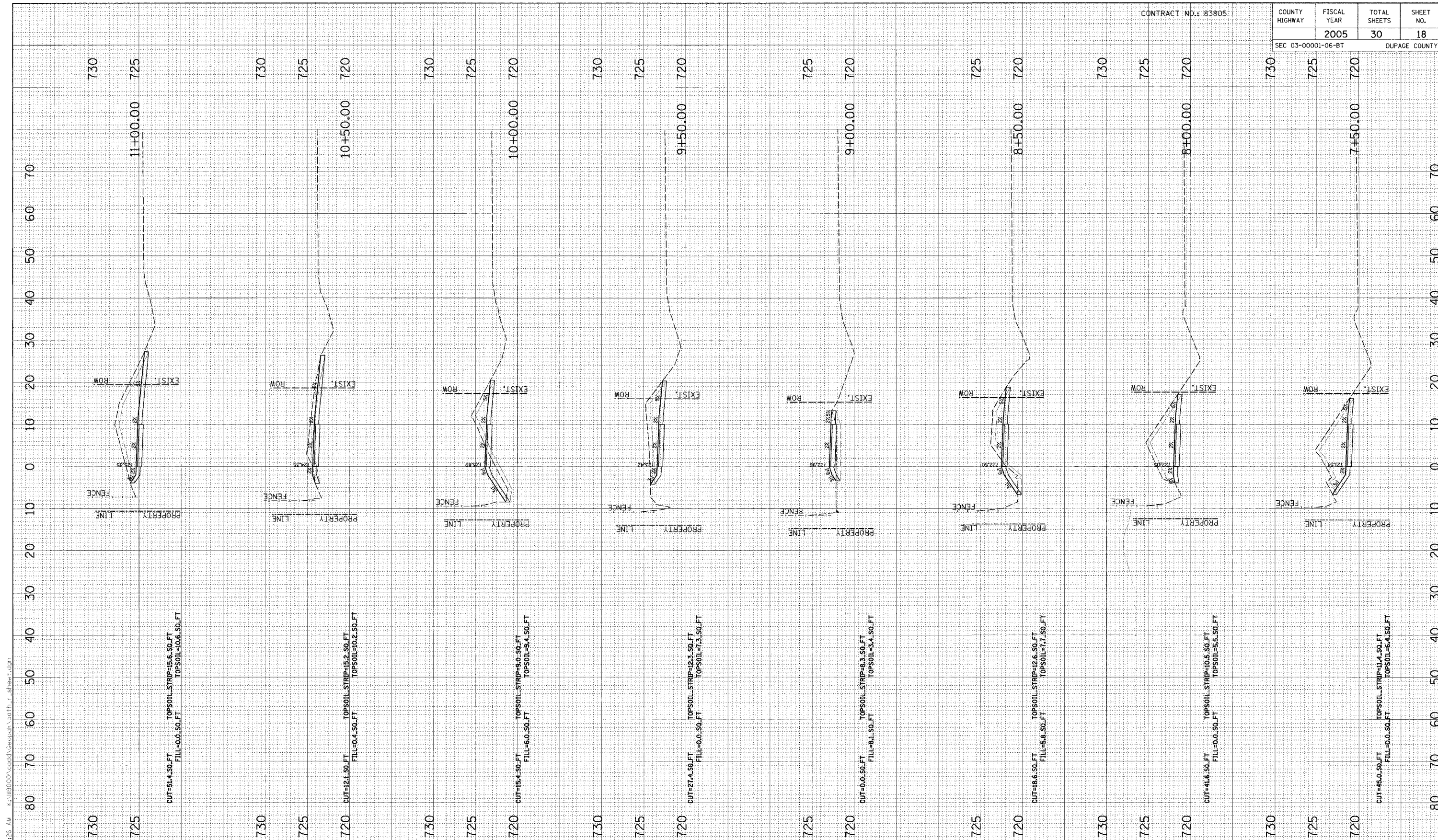
RN GROUP

RJN GROUP, INC.
CONSULTING ENGINEERS

PROJECT
Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur

TITLE
PROPOSED CROSS SECTIONS

DATE	JUNE 9, 2005
PROJECT NO.	11-1900-01
SHEET	



CONTRACT NO.: 83805

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
SEC 03-00001-06-BT	2005	30	18
			DUPAGE COUNTY

NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

SCALE 1" = 10' H 1" = 5' V

DRAWN BY BH DATE 04/04/05
 CHECKED BY JC DATE
 APPROVED BY DWB DATE

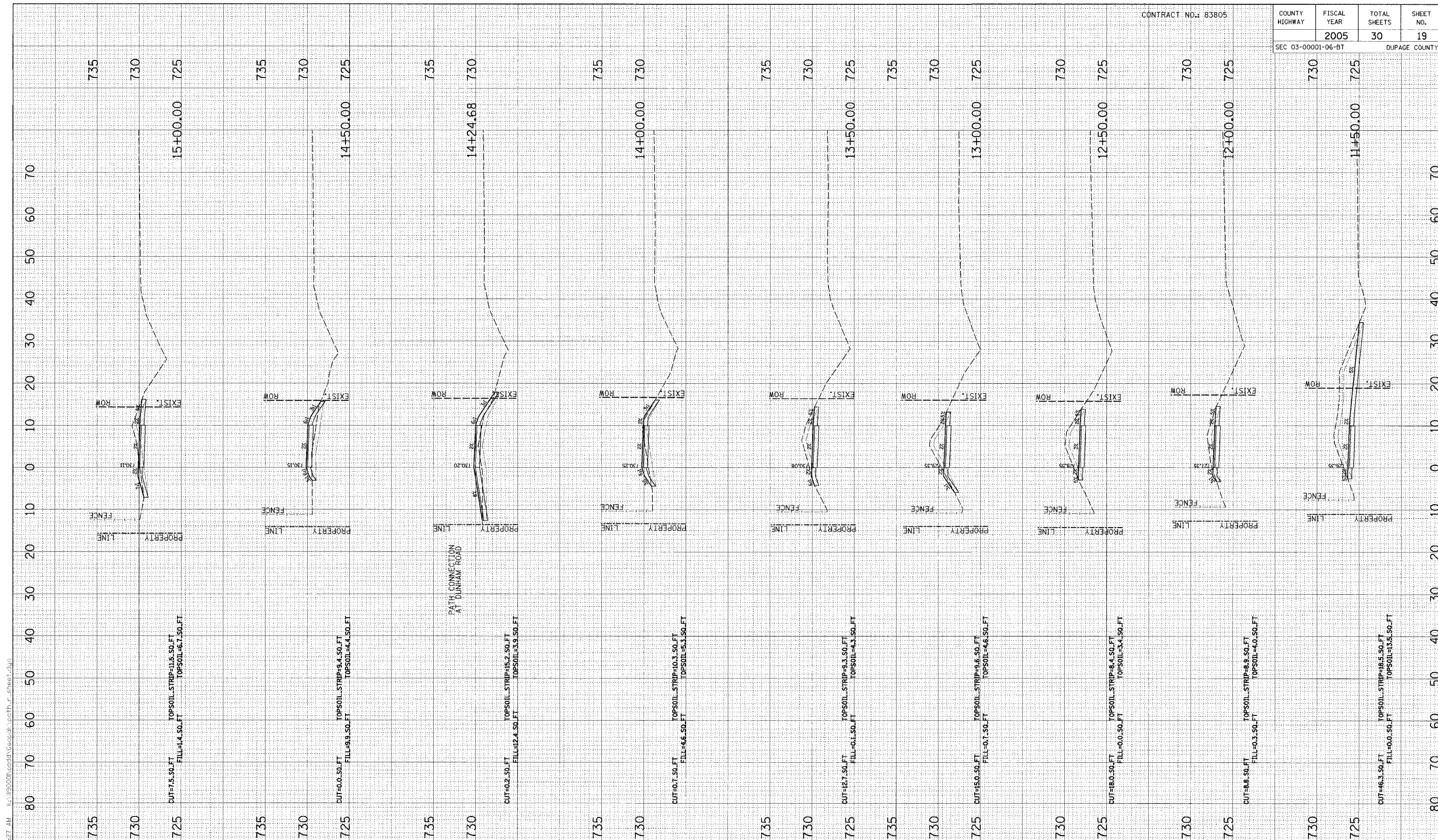


RJN GROUP, INC.
CONSULTING ENGINEERS

PROJECT
**Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur**

TITLE
PROPOSED CROSS SECTIONS

DATE JUNE 9, 2005
PROJECT No. 11-1900-01
SHEET



NO.	DATE	BY	REVISION

SCALE: 1" = 10' H, 1" = 5' V

DRAWN BY: BH, DATE: 04/04/05

CHECKED BY: JC, DATE:

APPROVED BY: DWB, DATE:



R/N GROUP, INC.
CONSULTING ENGINEERS

PROJECT: **Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur**

TITLE: **PROPOSED CROSS SECTIONS**

DATE: JUNE 9, 2005

PROJECT NO.: 11-1900-01

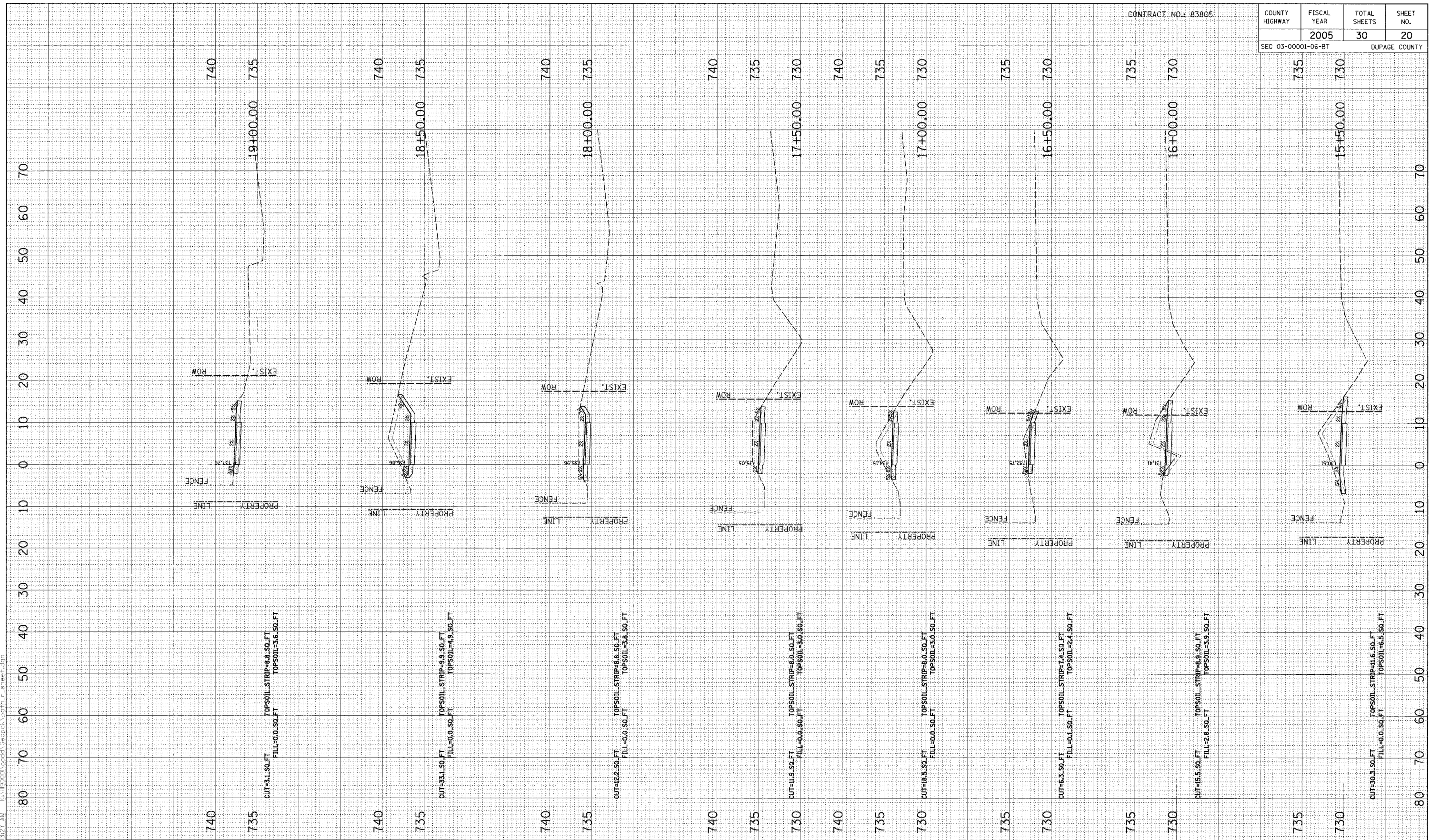
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CONTRACT NO.: 83805

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
SEC 03-0001-06-BT	2005	30	20
			DUPAGE COUNTY



NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

SCALE
 1" = 10' H
 1" = 5' V

DRAWN BY BH DATE 04/04/05
 CHECKED BY JC DATE
 APPROVED BY DWB DATE



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PROJECT
Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur

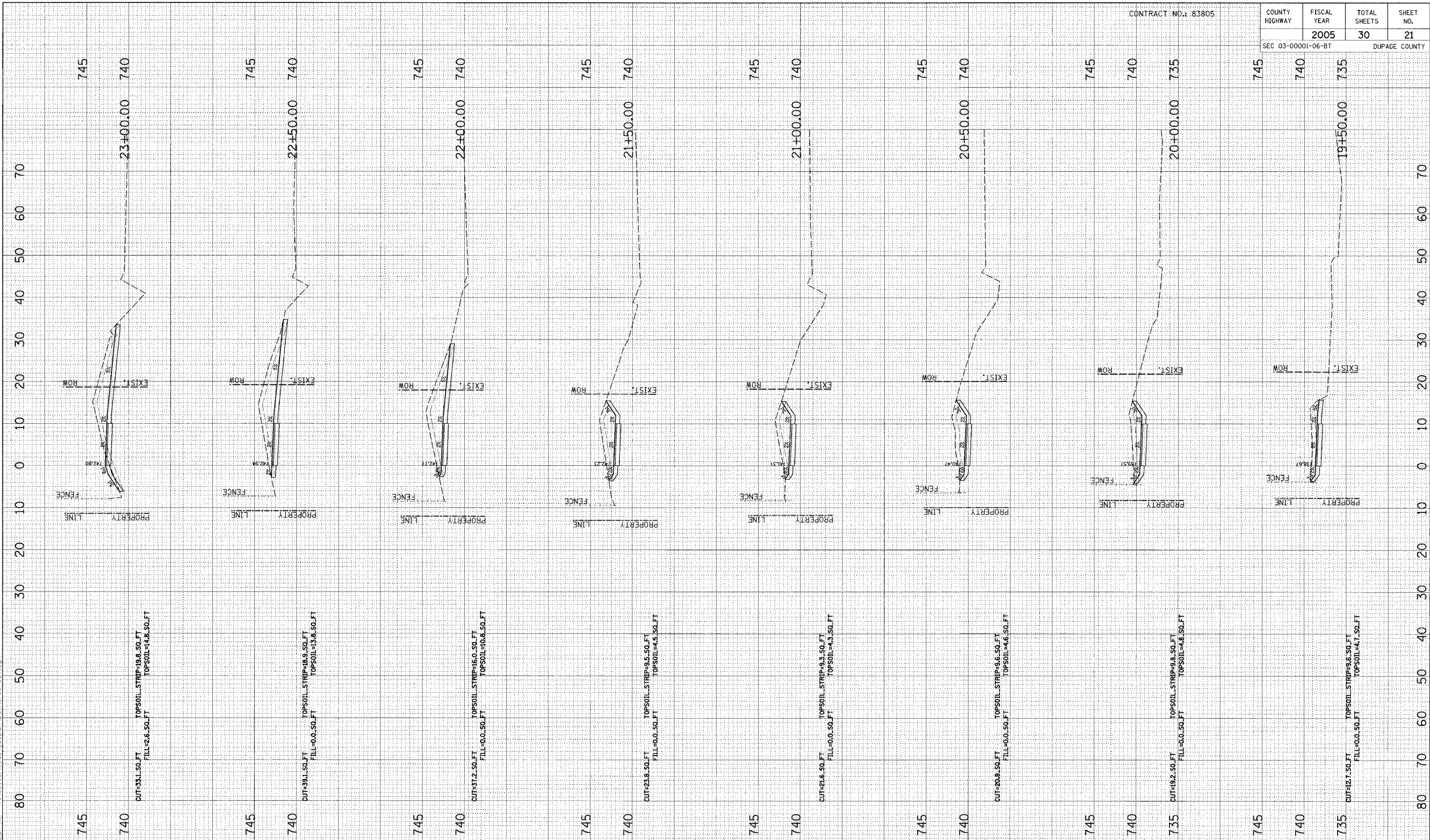
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DATE JUNE 9, 2005
 PROJECT NO. 11-1900-01
 SHEET

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CONTRACT NO.: 83805

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
SEC 03-00001-06-BT	2005	30	21
		DUPAGE COUNTY	



NO.	DATE	BY	REVISION

SCALE	H' = 10' H	V' = 5' V
DRAWN BY	BH	DATE 04/04/05
CHECKED BY	JC	DATE
APPROVED BY	DWB	DATE



RJN GROUP, INC.
CONSULTING ENGINEERS

PROJECT
**Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur**

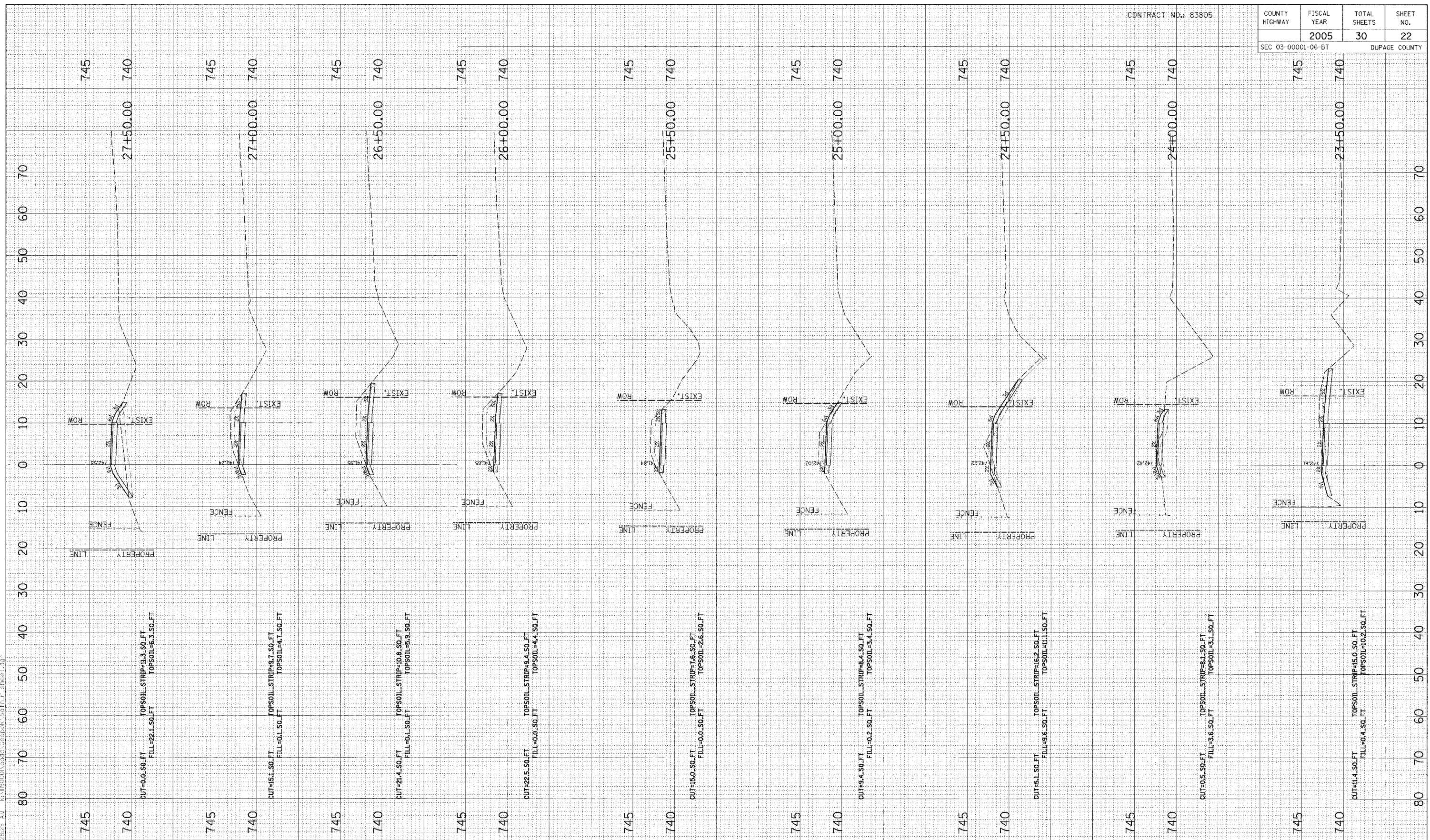
TITLE
PROPOSED CROSS SECTIONS

DATE	JUNE 9, 2005
PROJECT No.	11-1900-01
SHEET	

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CONTRACT NO.: 83805

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
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			DUPAGE COUNTY

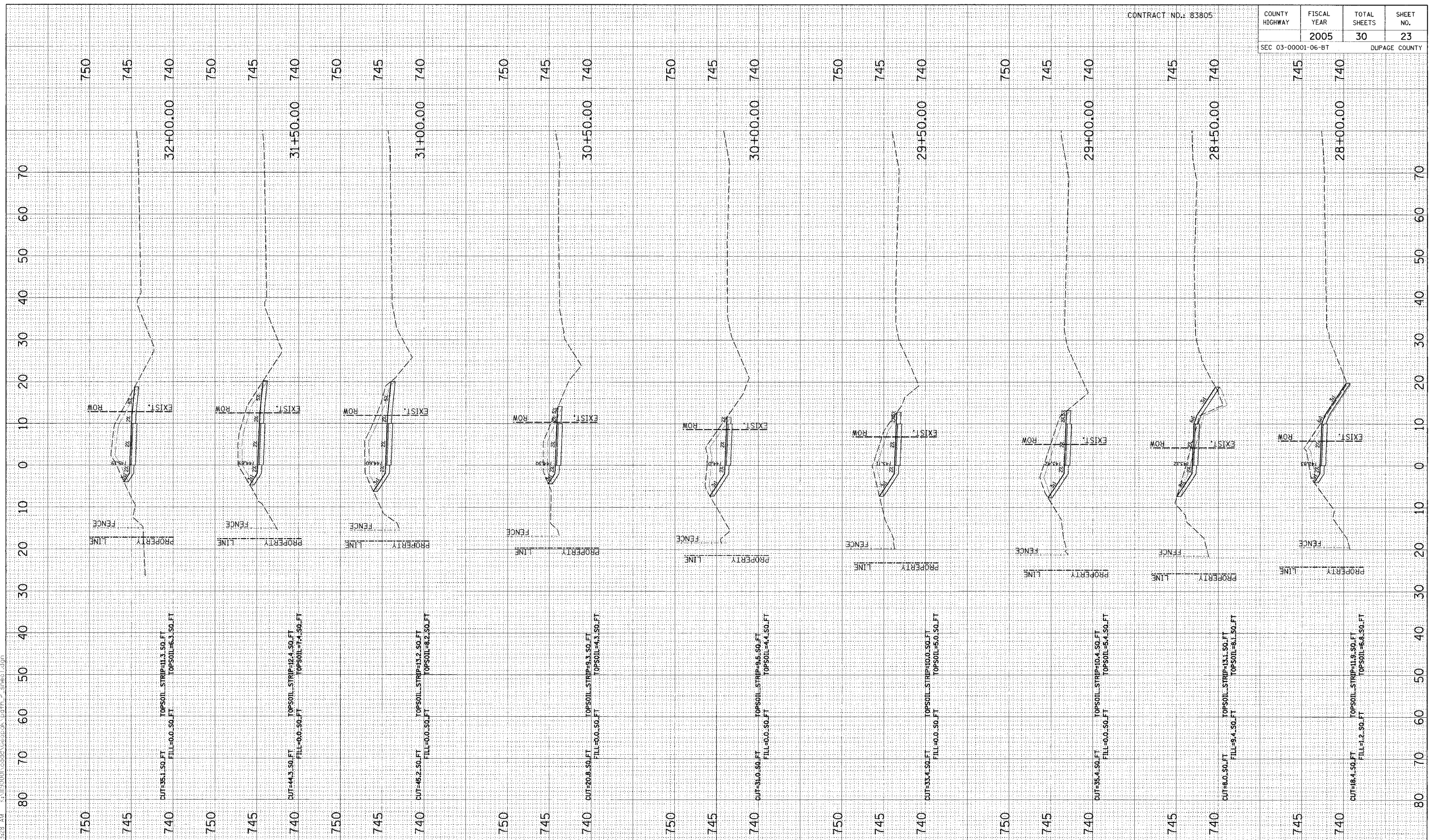


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NO.	DATE	BY	REVISION																			
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CONTRACT NO.: 83805

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
SEC 03-00001-06-BT	2005	30	23
			DUPAGE COUNTY



NO.	DATE	BY	REVISION

SCALE 1" = 10' H 1" = 5' V
 DRAWN BY BH DATE 04/04/05
 CHECKED BY JC DATE
 APPROVED BY DWB DATE



R/N GROUP, INC.
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PROJECT
Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur

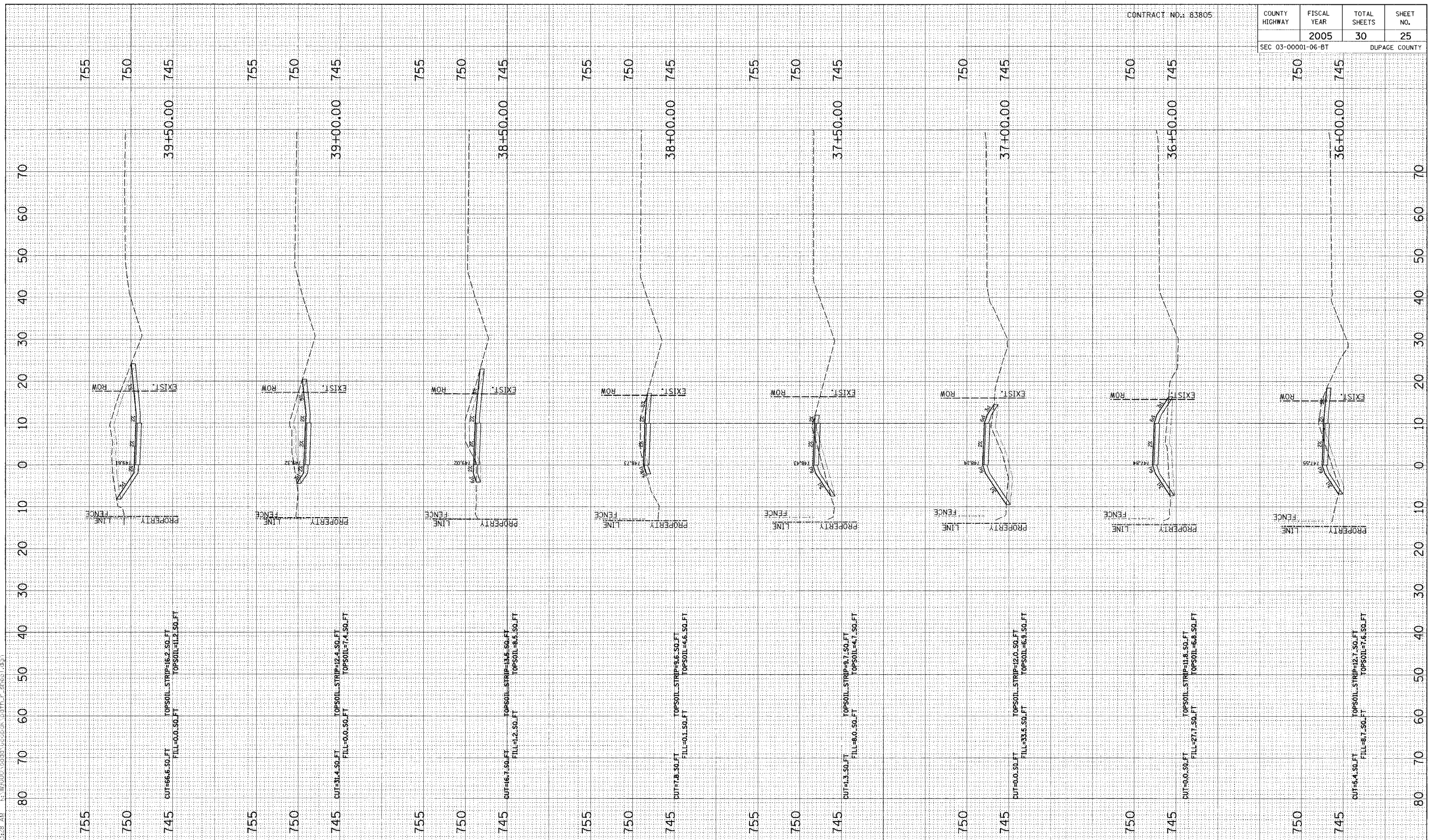
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PROPOSED CROSS SECTIONS

DATE	JUNE 9, 2005
PROJECT NO.	11-1900-01
SHEET	

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CONTRACT NO.: 83805

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
SEC 03-00001-06-BT	2005	30	25
		DUPAGE COUNTY	



NO.	DATE	BY	REVISION

SCALE 1" = 10' H 1" = 5' V
 DRAWN BY BH DATE 04/04/05
 CHECKED BY JC DATE
 APPROVED BY DWB DATE



RJN GROUP, INC.
 CONSULTING ENGINEERS

PROJECT
Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur

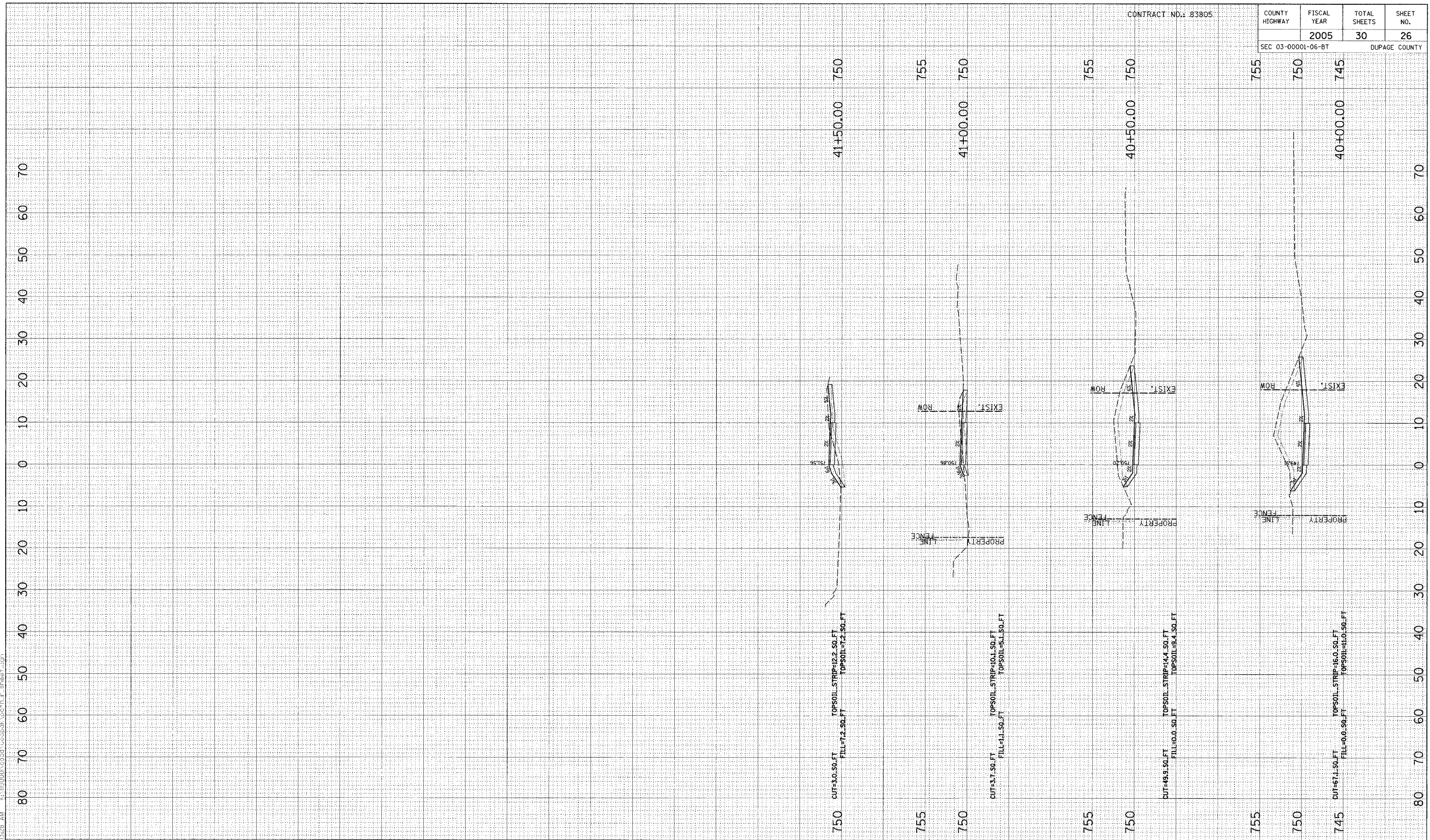
TITLE
PROPOSED CROSS SECTIONS

DATE	JUNE 9, 2005
PROJECT NO.	11-1900-01
SHEET	

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CONTRACT NO.: 83805

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
SEC 03-0001-06-BT	2005	30	26
			DUPAGE COUNTY



NO.	DATE	BY	REVISION

SCALE 1" = 10' H 1" = 5' V
 DRAWN BY BH DATE 04/04/05
 CHECKED BY JC DATE
 APPROVED BY DWB DATE



R/JN GROUP, INC.
 CONSULTING ENGINEERS

PROJECT
Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur

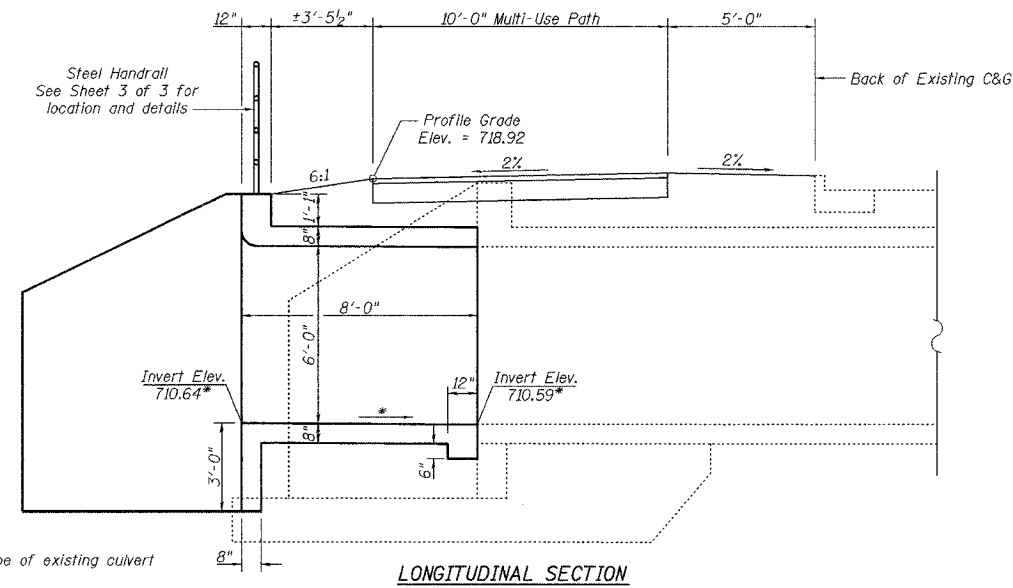
TITLE
PROPOSED CROSS SECTIONS

DATE JUNE 9, 2005
 PROJECT NO. 11-1900-01
 SHEET

Benchmark: Chiseled "x" on east end of existing headwall. Elev. 718.76
 Existing Structure: Double 6'x6' Precast Concrete Box Culvert, extended in 1998.
 No Salvage.

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	27
SEC 03-00001-06-BT		DUPAGE COUNTY	

CONTRACT NO.: 83805



GENERAL NOTES

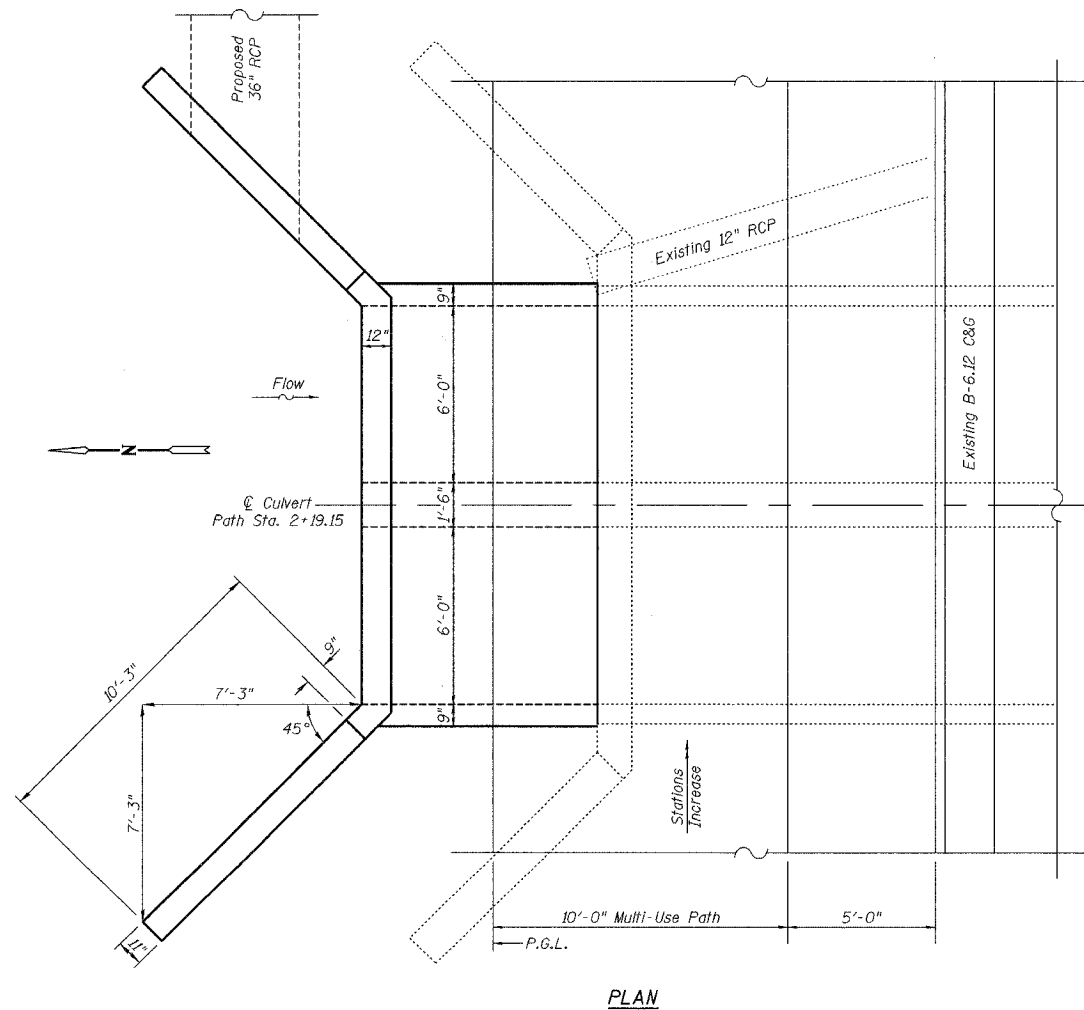
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

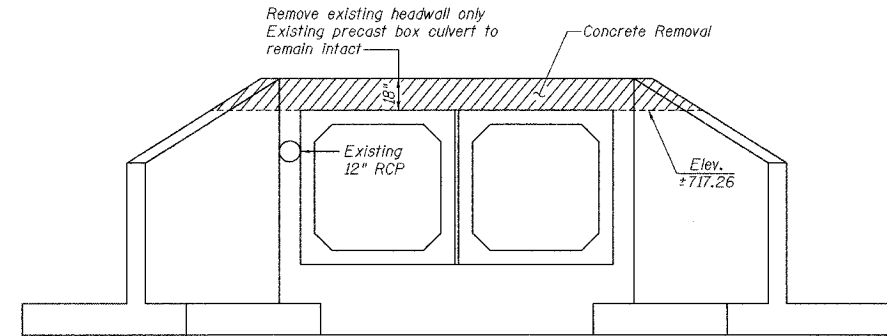
All Construction joints shall be bonded.

Coordinate construction of the east wingwall with storm sewer reconstruction plans.

* Match invert and slope of existing culvert



PLAN

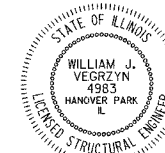


REMOVAL NOTES:

Cut existing reinforcement flush with removal surface.
 Existing 12" storm sewer shall be removed.

REMOVAL DETAILS

Looking South



William J. Vegrzyn 7/22/05
 Expires 11-30-06

I certify to the best of my knowledge, information and belief, this bridge, box culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specification for Highway Bridges".

LOADING HS20-44

DESIGN SPECIFICATIONS

AASHTO 17th Ed. - 2002

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	1.4
Concrete Box Culverts	Cu. Yd.	19.2
Reinforcement Bars	Pound	3830
Expansion Bolts 3/4 Inch	Each	40
Pipe Handrail	Foot	33

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NO.	DATE	BY	REVISION

NO.	DATE	BY	REVISION

SCALE N/A
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 CHECKED BY WJV DATE
 APPROVED BY DATE

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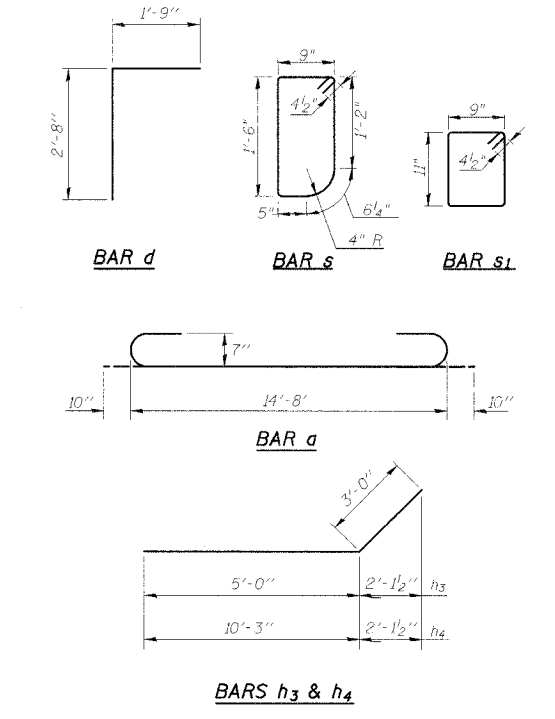
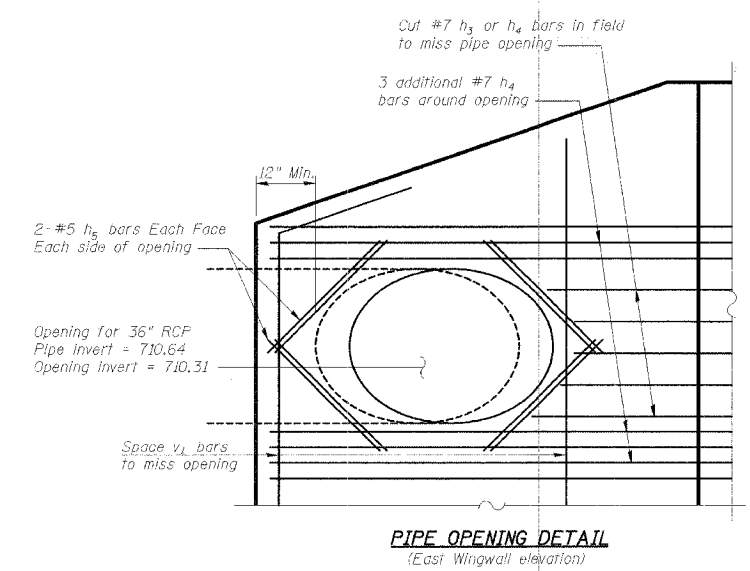
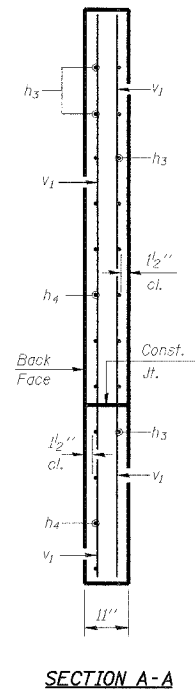
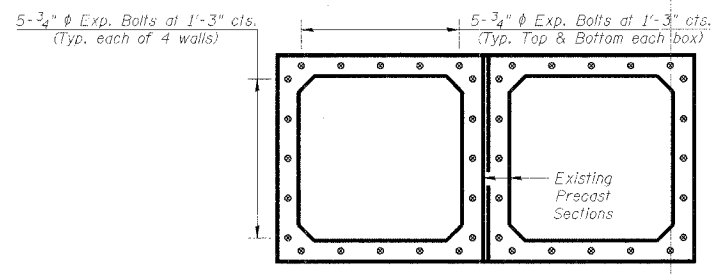
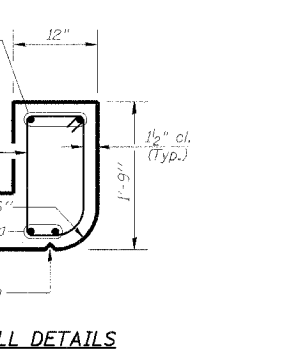
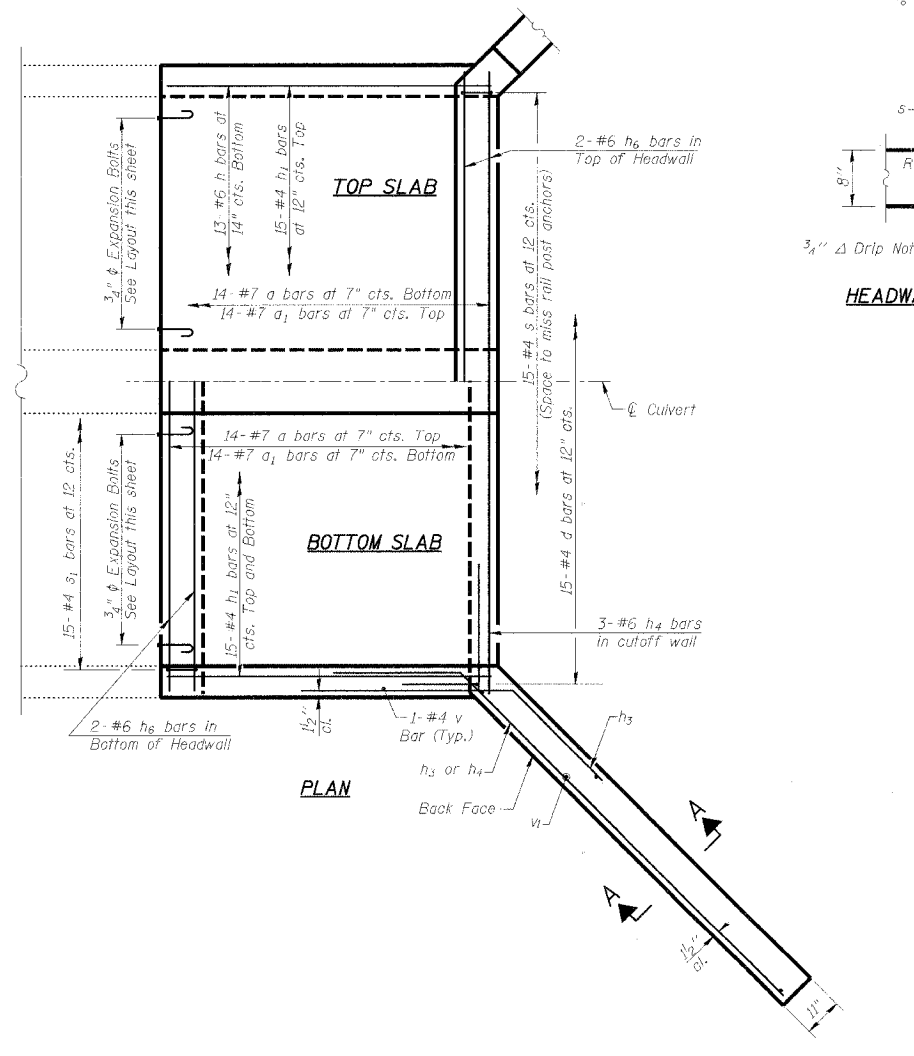
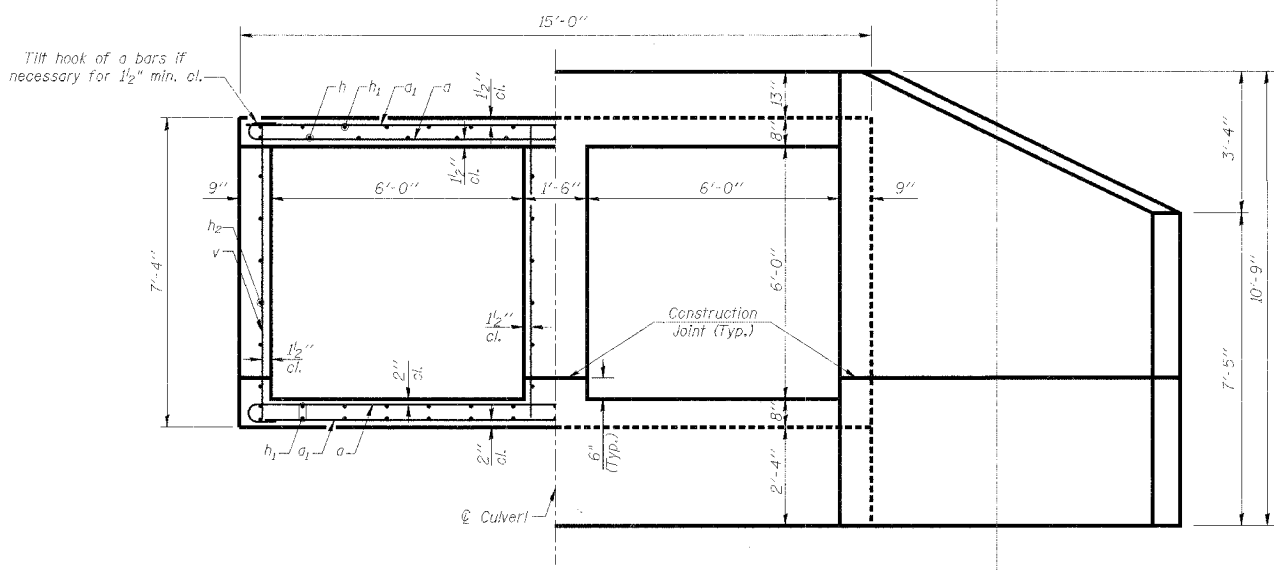
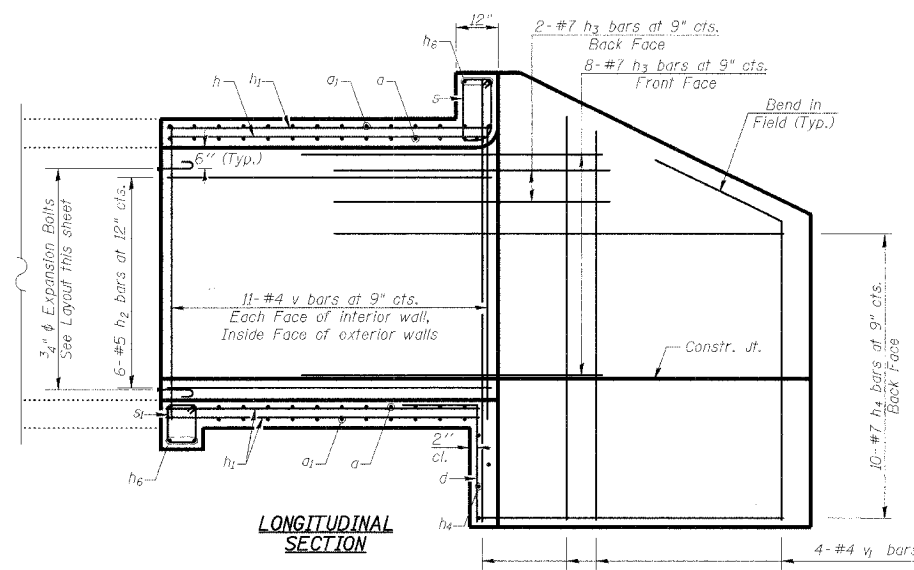
PROJECT
Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur

TITLE
CULVERT EXTENSION

DATE: JUNE 9, 2005
 PROJECT No.: II-1900-01
 SHEET 1 of 3

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	28
SEC 03-00001-06-BT			DUPAGE COUNTY

CONTRACT NO.: 83805



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	28	#7	16'-4"	
a1	28	#7	14'-8"	
d	15	#4	4'-5"	
h	13	#6	7'-9"	
h1	45	#4	7'-9"	
h2	24	#5	7'-9"	
h3	20	#7	8'-0"	
h4	23	#7	13'-3"	
h5	8	#5	3'-9"	
h6	4	#6	14'-7"	
s	15	#4	5'-1"	
s1	15	#4	4'-1"	
v	46	#4	7'-0"	
v1	8	#4	10'-6"	
Concrete Box Culverts			Cu. Yd.	19.2
Reinforcement Bars			Pound	3830
Expansion Bolts 3/4 Inch			Each	40

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NO.	DATE	BY	REVISION

SCALE	N/A
DRAWN BY	LCM
CHECKED BY	MJV
APPROVED BY	

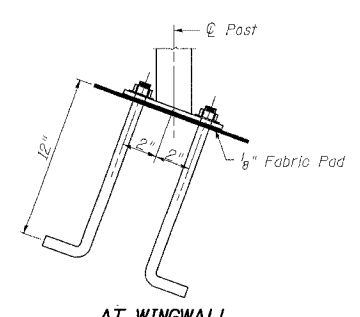
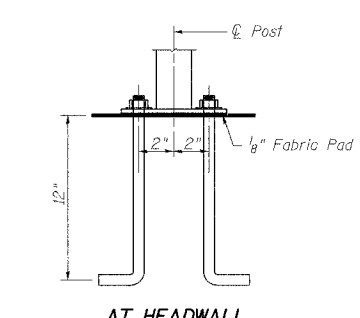
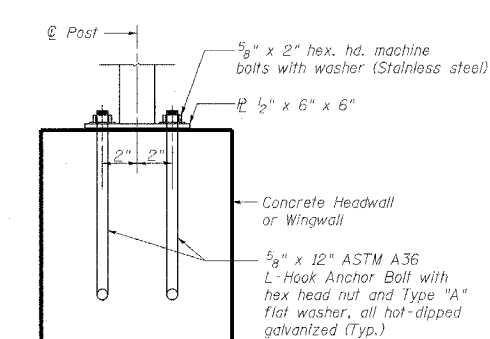
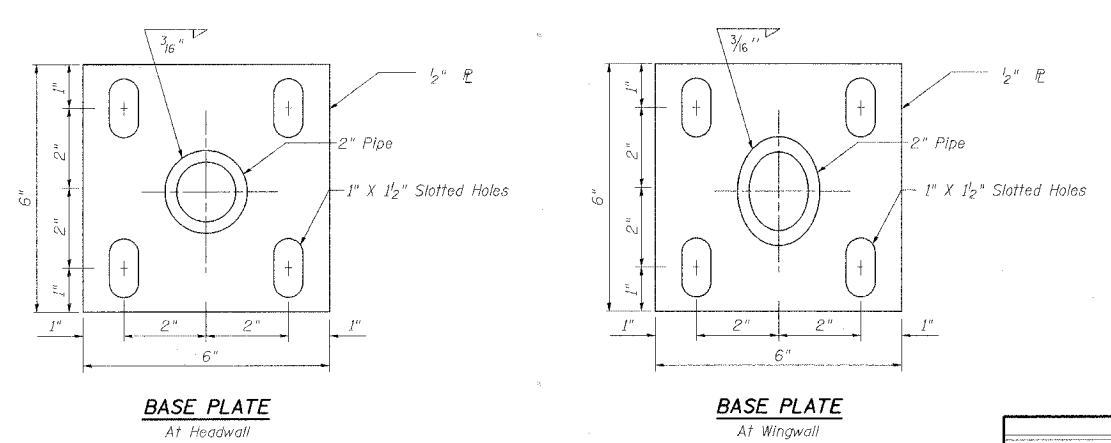
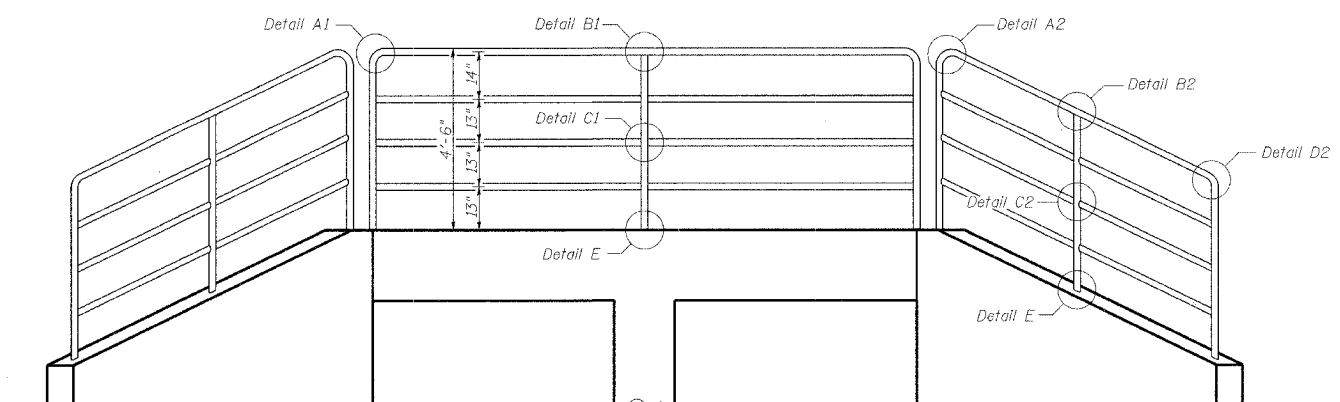
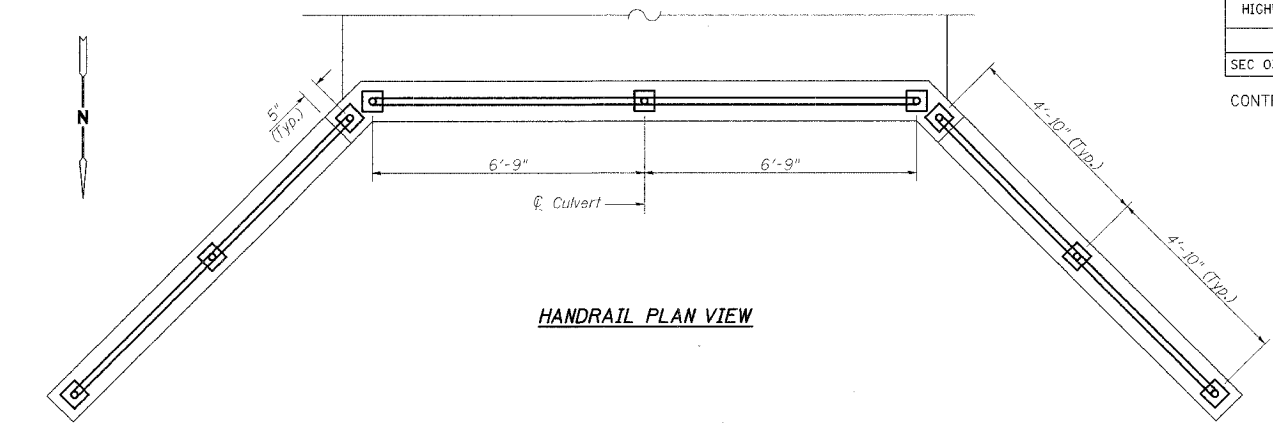
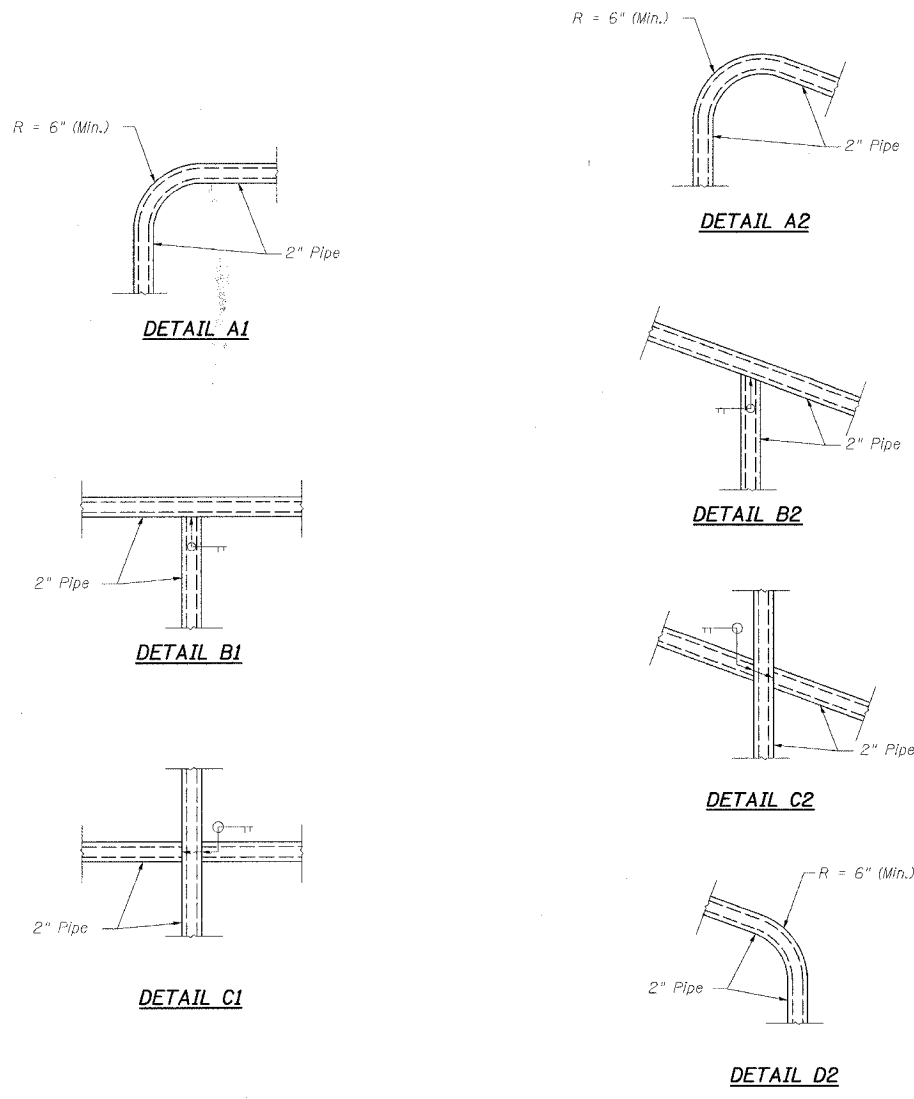
RN GROUP, INC.
CONSULTING ENGINEERS

PROJECT: **Southern DuPage County Regional Trail
101st Street Connector - Waterfall Glen Spur**

TITLE: **CULVERT EXTENSION DETAILS**

DATE: JUNE 9, 2005
PROJECT NO.: W-1900-01
SHEET: 2 of 3

COUNTY HIGHWAY	FISCAL YEAR	TOTAL SHEETS	SHEET NO.
	2005	30	29
SEC 03-00001-06-BT			DUPAGE COUNTY
CONTRACT NO.: 83805			



NOTES

Wingwall handrails shall be fabricated to match the slope of the wingwalls.

Railing shall be according to Section 510 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Hand Rail.

Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.

All other steel shapes and plates shall conform to requirements of AASHTO W 270 Grade 36.

If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with premeasured amounts of the adhesive chemical.

Space reinforcement to miss anchor rods.

All bolts, nuts, washers, and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.

Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.

HANDRAIL SHALL BE PAINTED BLACK PER ARTICLE 510.05.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Pipe Handrail	Foot	33

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