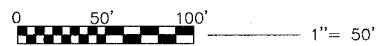
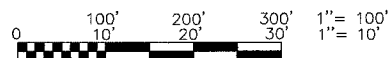


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 McHENRY HUNTLEY YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

INDEX OF SHEETS

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- 38-42 CROSS SECTIONS

SCALES
 PLAN: 1" = 20'
 PROFILE HORIZ.: 1" = 20'
 PROFILE VERT.: 1" = 5'
 CROSS SECTIONS HORIZ.: 1" = 10'
 CROSS SECTIONS VERT.: 1" = 5'



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.

PROJECT LOCATED IN
 VILLAGE OF MUNDELEIN,
 LAKE COUNTY, IL



CALL JULIE 1-800-892-0123

WITH THE FOLLOWING:
 COUNTY LAKE
 CITY-TOWNSHIP VILLAGE OF MUNDELEIN
 SEC. & 1/4 SEC. NO.# 14, 15, 43 & 7
 48 hours before you dig
 (Excluding Sat., Sun. & Holidays)

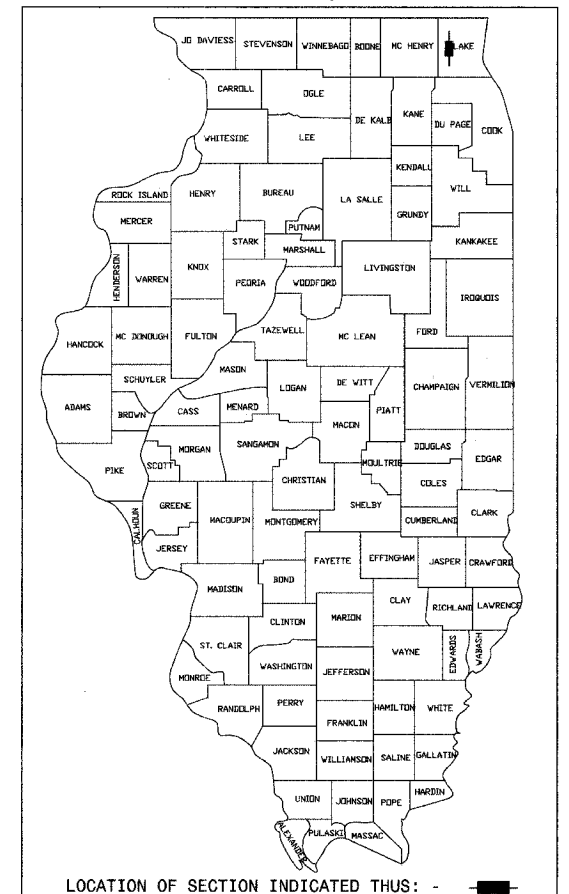
CONTRACT NO. 83890

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
 FEDERAL AID HIGHWAY

CMAQ/SEAVEY BIKE PATH
 RESURFACING AND BIKE PATH CONSTRUCTION
 LIMITS: WASHINGTON BOULEVARD TO THOMAS BOULEVARD
 SECTION NO. 04-00075-00-BT
 PROJECT NO. CMM-8003 (390)
 LAKE COUNTY
 C-91-154-04

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00075-00-BT	LAKE	42	1
PROJECT NO. M-8003 (390)				
FED. ROAD DIST. NO. 1 ILLINOIS HIGHWAY PROJECT 1				
Contract No: 83890				



VILLAGE OF MUNDELEIN

APPROVED 11/23 2006
 [Signature] VILLAGE ENGINEER

PASSED February 22, 2007
 [Signature] DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW February 22, 2007
 [Signature] DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

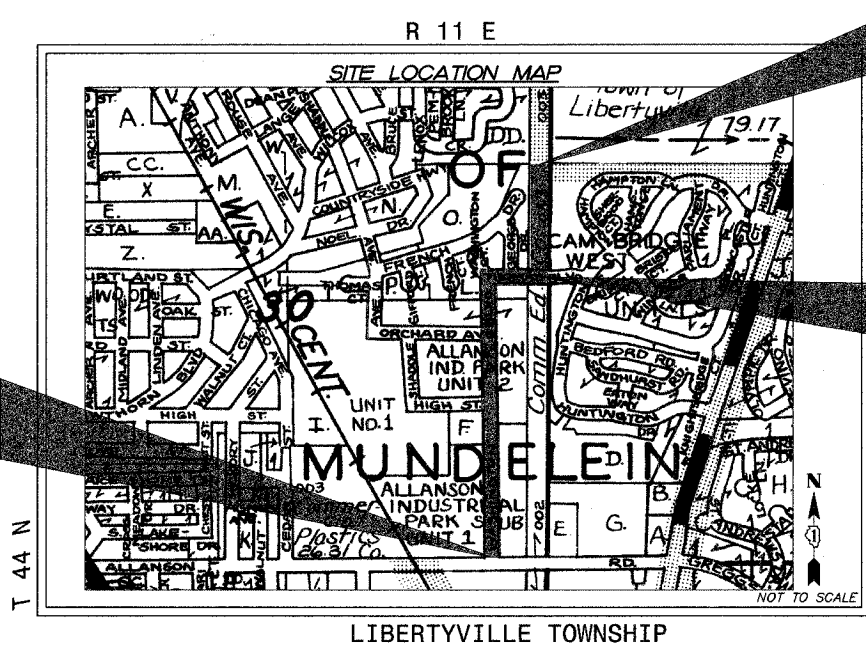
PRINTED BY AUTHORITY OF THE
 STATE OF ILLINOIS

PROFESSIONAL ENGINEER'S SIGN & SEAL

[Signature] JEFF L. PISHA P.E.
 11/30/06
 DATE: 11/30/09
 LICENSE EXPIRES:

STRUCTURAL ENGINEER'S SIGN & SEAL

[Signature] ROBERT G DAVIES, S.E., P.E.
 11/30/06
 DATE: 11/30/08
 LICENSE EXPIRES:



ON-STREET PROJECT BEGINS
 STA. 10+26.17

OFF-STREET PROJECT ENDS
 STA. 115+93.78

ON-STREET PROJECT ENDS
 STA. 43+88.71

OFF-STREET PROJECT BEGINS
 STA. 100+16.53

SPEED LIMIT
 WASHINGTON BOULEVARD: 30 MPH
 THOMAS BOULEVARD: 25 MPH

DESIGN SPEED
 WASHINGTON BOULEVARD: 35 MPH
 THOMAS BOULEVARD: 30 MPH

TRAFFIC DATA
 WASHINGTON BOULEVARD: 7,420 (2004)
 THOMAS BOULEVARD: 2,030 (2004)

GROSS LENGTH OF PROJECT = 4,936 FEET (0.94 MILES)
 NET LENGTH OF PROJECT = 4,936 FEET (0.94 MILES)

FEDERAL AID DESIGN ENGINEER: KEVIN STALLWORTH (647) 705-4169

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00075-00-BT	LAKE	42	2
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			
CONTRACT NO. 83890				

LIST OF STATE STANDARDS

STANDARD NO.	LIST OF DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604011-03	FRAME AND GRATE, TYPE 3V
606001-03	CONCRETE CURB TYPE B AND CONCRETE CURB AND GUTTER
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701011-01	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-04	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-02	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701901	TRAFFIC CONTROL DEVICES
720001	SIGN PANEL MOUNTING DETAILS
720006-01	SIGN PANEL ERECTION DETAILS
720011	METAL POSTS FOR SIGNS, MARKERS, & DELINEATORS
729001	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001-01	TYPICAL PAVEMENT MARKINGS
878001-06	CONCRETE FOUNDATION DETAILS
880006	TRAFFIC SIGNAL MOUNTING DETAILS
886006	TYPICAL LAYOUTS FOR DETECTION LOOPS

GENERAL NOTES

- THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF 0.10 GAL/SQ-YD.
- PRIOR TO ANY EMBANKMENT PLACEMENT ALL VEGETATION, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENINGS ON EXISTING SLOPES SHOULD BE BENCHED AND PLACED IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- SAW CUTTING WILL BE REQUIRED FOR ALL REMOVAL ITEMS LISTED IN SECTION 440 OF THE STANDARD SPECIFICATIONS, SHOWN IN THE PLANS, AND AS DIRECTED BY THE ENGINEER. THE COST OF SAW CUTTING WILL BE INCLUDED IN THE COST OF ITEMS BEING REMOVED.
- THE CONTRACTOR SHALL ENSURE THAT ALL WATER SYSTEM VALVES, VALVE VAULTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE TO THE VILLAGE FOR EMERGENCY OPERATIONS. THE LOCATIONS OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES.
- THE CONTRACTOR SHALL NOT OPERATE ANY OF THE EXISTING WATER SYSTEM. VILLAGE OF MUNDELEIN FORCES MUST BE PRESENT TO OBSERVE AND OPERATE ALL VALVES, HYDRANTS, ETC. THE CONTRACTOR SHALL PROVIDE THE VILLAGE WITH 24 HOUR NOTICE PRIOR TO STARTING ANY WORK ON VILLAGE FACILITIES.
- SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE REMOVAL OF ANY UNSTABLE MATERIAL.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
- ALL DIMENSIONS, INCLUDING RADII, ARE GIVEN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE INCURRED. THIS WORK SHALL BE ARRANGED BY THE UTILITY COMPANY AND SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE LIMITS OF UNDERCUT WILL BE VERIFIED OR RE-ESTABLISHED DURING CONSTRUCTION BY THE ENGINEER BASED ON ACTUAL CONDITIONS. THE PLAN QUANTITIES ARE ESTIMATED AND ANY ADDITIONS OR SUBTRACTIONS RESULTING FROM THE CHANGE IN LIMITS OF UNDERCUTTING SHALL BE MADE BY THE ENGINEER AND THE CONTRACTOR WILL BE PAID FOR THE ACTUAL QUANTITY OF WORK PERFORMED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER OR REPLACED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRECONSTRUCTION CONFERENCE.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 AND THE VILLAGE OF MUNDELEIN FOR FIELD LOCATIONS OF BURIED UTILITIES (72 HOURS NOTIFICATION IS REQUIRED).
- ALL UTILITY COMPANIES AND LOCAL POLICE AND FIRE DEPARTMENTS SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL USE CARE IN GRADING NEAR TREES, SHRUBS AND BUSHES WHICH ARE NOT TO BE REMOVED SO AS NOT TO CAUSE INJURY TO THE ROOTS, TRUNKS OR LIMBS. SAW CUTTING OF TREE ROOTS WHEN DIRECTED BY THE ENGINEER SHALL BE INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL REMOVE ALL MAILBOXES WITHIN THE LIMITS OF CONSTRUCTION WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND SHALL ERECT THEM AT TEMPORARY LOCATIONS.
- AS SOON AS CONSTRUCTION OPERATION PERMITS, THE CONTRACTOR SHALL SET THE MAILBOXES AT THEIR PERMANENT LOCATIONS. THIS WORK SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL REPLACE, AT THE CONTRACTOR'S EXPENSE, ANY MAILBOX OR POST WHICH HAS BEEN DAMAGED BY THE CONTRACTOR'S OPERATIONS.
- WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN, FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS.
- ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:
 - SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.
 - EVERY SIGN TO BE RELOCATED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO TRAFFIC FOR WHICH IT IS INTENDED. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING.
 - ALL SIGNS TO BE RELOCATED SHALL BE RE-ERECTED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. HORIZONTAL LOCATION FROM THE EDGE OF PAVEMENT SHALL BE DESIGNATED BY THE ENGINEER.
 - ALL UNUSED SIGNS SHALL BE RETURNED TO THEIR OWNER (VILLAGE OF MUNDELEIN).
 - LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS.
- ANY SIGNS WHICH ARE DAMAGED BEYOND REPAIR DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.
- THE CONTRACTOR SHALL ADHERE TO LIMITS OF RESTORATION SHOWN. AREAS OUTSIDE THESE LIMITS THAT ARE DAMAGED OR DISTURBED BY THE CONTRACTOR SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL DISTURBED AREAS WITHIN THE PROJECT THAT ARE NOT OTHERWISE SURFACED SHALL BE CLEARED, LAYERED WITH TOPSOIL, AND SEEDED OR SODDED AS SHOWN IN THE PLANS. LIMITS SHOWN ON THE CROSS SECTIONS ARE THE MAXIMUM PAY WIDTHS FOR PAYMENT PURPOSES.

SYMBOL LEGEND

	EXISTING	PROPOSED
SANITARY MANHOLE	⊙	⊙
STORM MANHOLE	⊙	⊙
STORM CATCH BASIN	⊙	⊙
INLET	□	■
FLARED END SECTION	▷	▷
VALVE VAULT	⊙	⊙
FIRE HYDRANT	⋄	⋄
LIGHT POLE	✱	✱
STREET SIGN	+	+
REGULATORY SIGN	+	+
UTILITY POLE	⋄	⋄
UTILITY BOX	⊙	⊙
MAILBOX	⊙	⊙
WELL	⊙	⊙
SANITARY SEWER	—	—
STORM SEWER	—	—
CULVERT	—	—
WATER MAIN	—	—
WATER MAIN ENCASUREMENT	—	—
STORM UNDERDRAIN	—	—
ELECTRIC LINE	—	—
TELEPHONE LINE	—	—
GAS LINE	—	—
CABLE TV LINE	—	—
TREELINE	—	—
TREE	⊙	⊙
FENCE	—	—
EROSION CONTROL FENCE	—	—
DITCH CHECK	—	—
DRAINAGE ARROW	→	→
100 YEAR OVERFLOW	→	→

STANDARD ABBREVIATIONS

- B-B - BACK TO BACK OF CURB
- B.C. - BACK OF CURB
- B.O.C. - BACK OF CURB
- B.S.L. - BUILDING SETBACK LINE
- C.B. - STORM CATCH BASIN
- C.E. - COMMONWEALTH EDISON CO.
- D.E. - DRAINAGE EASEMENT
- E-E - EDGE TO EDGE OF PAVEMENT
- E.O.P. - EDGE OF PAVEMENT
- E.O.S. - EDGE OF SHOULDER
- E.P. - EDGE OF PAVEMENT
- E.S. - EDGE OF SHOULDER
- F.E.S. - FLARED END SECTION
- I.B.T. - ILLINOIS BELL TELEPHONE CO.
- L.E. - LANDSCAPE EASEMENT
- M.H. - MANHOLE (TYPE SPECIFIED ON PLANS)
- R.O.W. - RIGHT OF WAY
- T.B.F. - TRENCH BACKFILL
- T.C. - TOP OF CURB
- T.C.E. - TEMPORARY CONSTRUCTION EASEMENT
- T.O.B. - TOP OF BERM
- T.O.C. - TOP OF CURB
- U.E. - UTILITY EASEMENT

SITE BENCHMARKS

BM 1:
CHISELED SQUARE IN THE CENTER OF THE WEST HEADWALL OF THE CULVERT UNDER MUSEUM ENTRANCE AND THE SEAVEY DRAINAGE DITCH. ELEVATION = 717.66

BM 2:
CHISELED SQUARE ON THE EAST HEADWALL OF THE CULVERT UNDER SHADDE AVENUE AND THE SEAVEY DRAINAGE DITCH. ELEVATION = 717.06

EARTHWORK TABLE				EARTHWORK TABLE			
STATION	UNSUITABLE OR UNSTABLE MATERIAL	FURNISHED EXCAVATION	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	STATION	UNSUITABLE OR UNSTABLE MATERIAL	FURNISHED EXCAVATION	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
100+00	0	0	0.0	200+00	0	0	0.0
101+00	49.4	18.8	30.6	201+00	52.4	33.4	19.0
102+00	68.9	28.7	40.2	202+00	54.1	37.2	16.9
103+00	69.8	28.6	41.2	202+64	33.3	25.6	7.7
104+00	73.1	27.8	45.3	300+00	0	0	0.0
105+00	81.3	26.6	54.7	301+00	46.9	19.4	27.6
106+00	78.3	31.0	47.3	302+00	54.9	22.7	32.2
107+00	64.5	36.7	27.9	302+81	52.8	30.9	21.8
108+00	78.1	35.5	42.6				
109+00	90.6	28.2	62.3				
110+00	98.5	25.9	72.6				
111+00	104.1	25.9	78.1				
112+00	85.3	36.2	49.1				
113+00	122.3	20.2	102.1				
114+00	95.4	8.6	86.8				
115+00	35.6	8.3	27.3				
115+94	95.5	18.7	76.8				
TOTALS					1585 CY	575 CY	1,010 CY

EARTHWORK SUMMARY

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL - 1,585 CU YD

FURNISHED EXCAVATION - 575 CU YD

REVISIONS

NO.	NAME	DATE
7.		
6.		
5.		
4.		
3.		
2.		
1.	BDH	12-28-07

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 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH

GENERAL NOTES AND LIST OF STATE STANDARDS

SCALE: "N" DRAWN BY: BDH
 DATE: 11-15-06 CHECKED BY: GFR

PLAT FILE STANDARD
 WED 12-28-07 10:00 AM
 COMP. FILE: CSD480-811.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00075-00-BT	LAKE	42	3
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 83890				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	BRIDGE QUANTITIES X942-2A	BIKE PATH QUANTITIES I000-2A
ITEM NUMBER	ITEM	UNIT			
20100210	TREE REMOVAL, OVER 15 UNITS DIAMETER	UNIT	72		72
20100500	TREE REMOVAL, ACRES	ACRE	0.25		0.25
20200500	EARTH EXCAVATION, WIDENING	CU YD	13		13
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,585	20	1,565
20400800	FURNISHED EXCAVATION	CU YD	575		575
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	25	25	
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	450		450
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	7,020		7,020
25000200	SEEDING, CLASS 2	ACRE	1.00		1.00
25000310	SEEDING, CLASS 4	ACRE	0.05		0.05
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	132		132
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	132		132
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	132		132
25100630	EROSION CONTROL BLANKET	SQ YD	5,060		5,060
25200100	SODDING	SQ YD	2,960		2,960
25200200	SUPPLEMENTAL WATERING	UNIT	24		24
28000400	PERIMETER EROSION BARRIER	FOOT	4,026		4,026
28000500	INLET AND PIPE PROTECTION	EACH	2		2
31101600	SUB-BASE GRANULAR MATERIAL, TYPE B, 8"	SQ YD	2,750		2,750
35102400	AGGREGATE BASE COURSE, TYPE B, 12"	SQ YD	445		445
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	39		39
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	350		350
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	1,700		1,700
40600300	AGGREGATE (PRIME COAT)	TON	30		30
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1,955		1,955
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	SQ FT	464		464
42400800	DETECTABLE WARNINGS	SQ FT	44		44
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	14,745		14,745
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,128		1,128
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	4,645		4,645
44000600	SIDEWALK REMOVAL	SQ FT	9,734		9,734
44201717	CLASS D PATCHES, TYPE II, 6", IL-19mm	SQ YD	445		445
50200100	STRUCTURE EXCAVATION	CU YD	79	79	
50300225	CONCRETE STRUCTURES	CU YD	18	18	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,940	2,940	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	21	21	
60255500	MANHOLES TO BE ADJUSTED	EACH	7		7
60404305	FRAMES & GRATES, TYPE 3V	EACH	15		15
60405740	FRAMES & GRATES TO BE REMOVED	EACH	15		15
60406000	FRAMES & LIDS, TYPE 1, OPEN LID	EACH	3		3
60406100	FRAMES & LIDS, TYPE 1, CLOSED LID	EACH	3		3

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	BRIDGE QUANTITIES X942-2A	BIKE PATH QUANTITIES I000-2A
ITEM NUMBER	ITEM	UNIT			
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12	FOOT	866		866
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.18	FOOT	4,411		4,411
67100100	MOBILIZATION	L SUM	1		1
70102620	TRAFFIC CONTROL AND PROTECTION, 701501	L SUM	1		1
70102622	TRAFFIC CONTROL AND PROTECTION, 701502	L SUM	1		1
70300220	TEMPORARY PAVEMENT MARKING, LINE 4"	FOOT	8,906		8,906
72000100	SIGN PANEL, TYPE 1	SQ FT	160		160
72400500	RELOCATE SIGN PANEL ASSEMBLY, TYPE A	EACH	1		1
72900100	METAL POST, TYPE A	FOOT	405		405
* 78000100	THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS	SQ FT	357		357
* 78000200	THERMOPLASTIC PAVEMENT MARKING, LINE 4"	FOOT	10,098		10,098
* 78000400	THERMOPLASTIC PAVEMENT MARKING, LINE 6"	FOOT	321		321
* 78000600	THERMOPLASTIC PAVEMENT MARKING, LINE 12"	FOOT	103		103
* 78000650	THERMOPLASTIC PAVEMENT MARKING, LINE 24"	FOOT	178		178
* XX006923	GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	5		5
* 81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	50		50
* 85000200	MAINTENANCE OF EXSITING TRAFFIC SIGNAL INSTALLATION	EACH	1		1
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	FOOT	300		300
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5/C	FOOT	300		300
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7/C	FOOT	300		300
* 87700220	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36'	EACH	1		1
* 87800400	CONCRETE FOUNDATION, TYPE E, 30"-DIA	FOOT	15		15
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1		1
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1		1
* 88200100	TRAFFIC SIGNAL BACKPLATE	EACH	2		2
* 88800600	DETECTOR LOOP, REPLACEMENT	FOOT	221		221
* 88700200	LIGHT DETECTOR	EACH	2		2
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	928		928
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1
89502385	REMOVE EXISTING CONCRETE FOUNDATIONS	EACH	1		1
* X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	1,078	1,078	
X0322671	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	94		94
* X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1/C	FOOT	300		300
* X8730230	ELECTRIC CABLE IN CONDUIT, NO. 20 3/C TWISTED, SHIELDED	FOOT	300		300
XX004007	BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	1,112		1,112

* SPECIALTY ITEMS

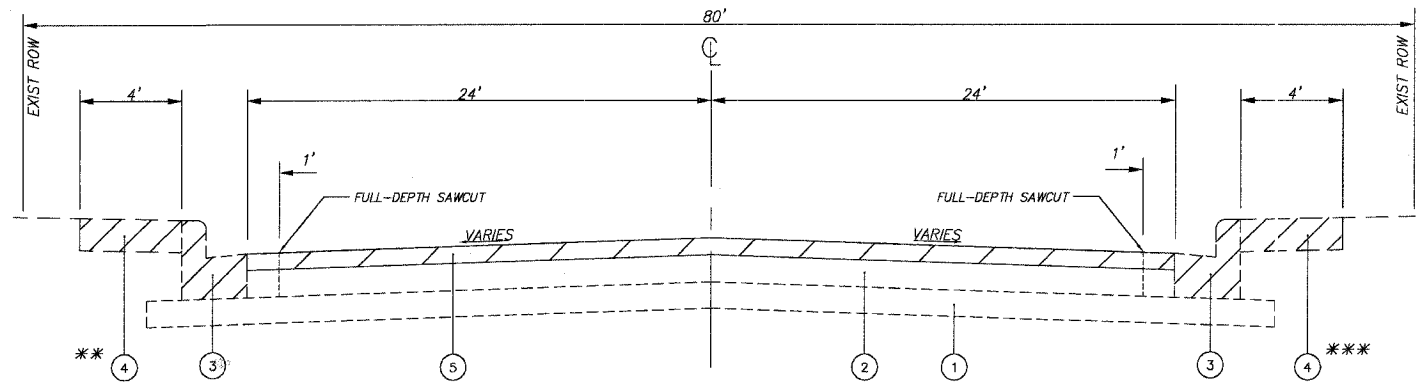
PLOT FILE STANDARD
VIEW: 02-03
COMP. FILE: 020460-611.dwg

REVISIONS	
NO.	DATE
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1.	BDH 12-28-07

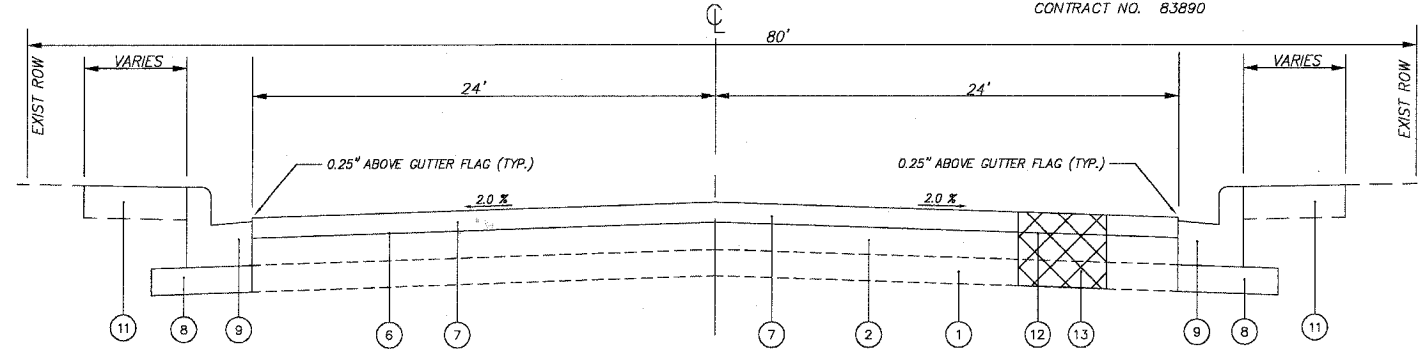
SMITH ENGINEERING CONSULTANTS, INC.
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS
 4500 PRIME PARKWAY, SUITE 201
 McHENRY, ILLINOIS 60050
 PH: 815-380-1778 FAX: 815-380-1781
 www.smithengineering.com E-MAIL: sec@smithengineering.com
 McHENRY HUNTLEY YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 SUMMARY OF QUANTITIES
 SCALE: "NTS" DRAWN BY BDH
 DATE 11-15-06 CHECKED BY GFR

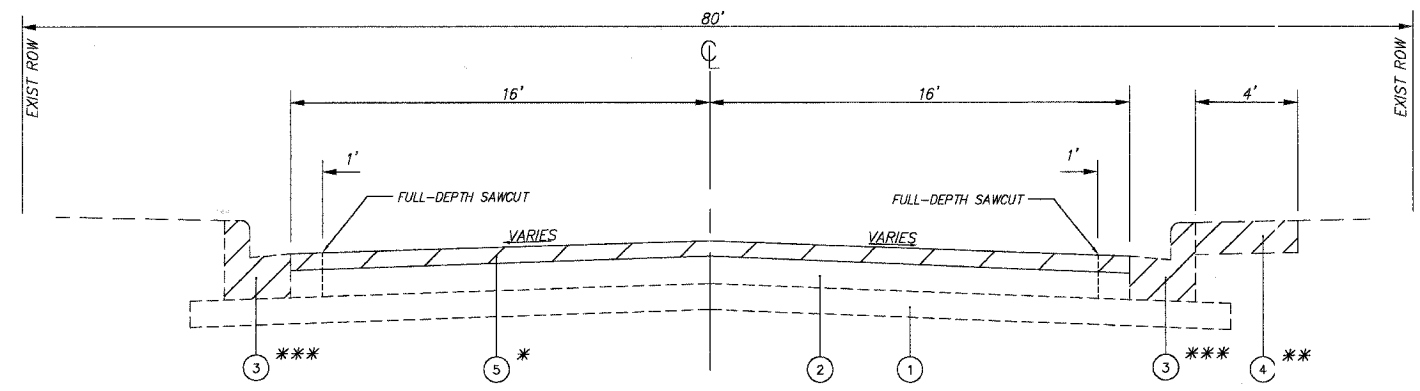
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-0075-00-BT	LAKE	LAKE	42	4
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			
CONTRACT NO. 83890				



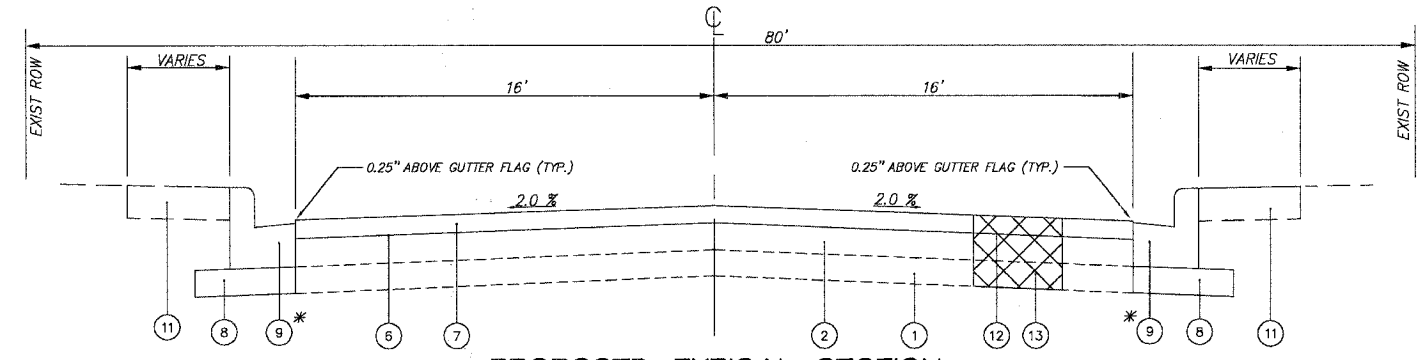
EXISTING TYPICAL SECTION
WASHINGTON BOULEVARD
 (ALLANSON STREET TO HIGH STREET)
 STA. 10+26.17 TO STA. 25+79
 ** SIDEWALK REMOVAL (STA. 14+44 TO 21+52)
 *** SIDEWALK REMOVAL (STA. 11+36 TO 25+79)



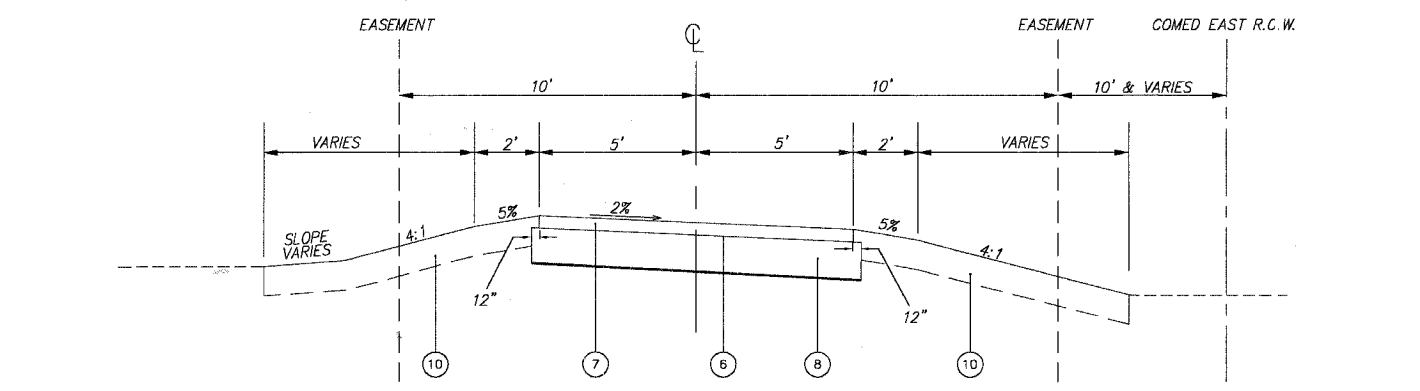
PROPOSED TYPICAL SECTION
WASHINGTON BOULEVARD
 (ALLANSON STREET TO HIGH STREET) STA. 10+26.17 TO STA. 25+79



EXISTING TYPICAL SECTION
WASHINGTON BOULEVARD / THOMAS BOULEVARD
 (HIGH STREET TO OFF-STREET BIKE PATH)
 STA. 25+79 TO STA. 43+88.71
 * HOT-MIX ASPHALT SURFACE REMOVAL ENDS AT STA. 41+87
 ** SIDEWALK REMOVAL (STA. 25+79 TO 32+60)
 *** CURB & GUTTER REMOVAL (25+79 TO 32+76.64)



PROPOSED TYPICAL SECTION
WASHINGTON BOULEVARD / THOMAS BOULEVARD
 (HIGH STREET TO OFF-STREET BIKE PATH) STA. 25+79 TO STA. 41+87
 * PROP. CURB & GUTTER (25+79 TO 32+76.64)



PROPOSED TYPICAL SECTION
BIKE PATH
 STA. 100+16.53 to STA. 115+93.78,
 STA. 200+00 to STA. 202+61.55, &
 STA. 300+00 to STA. 302+81.32

NOTES:
 THE UNIT WEIGHT USED TO CALCULATE BITUMINOUS SURFACE MIXTURE IS 112 LB/SY PER INCH THICKNESS.
 WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIXTURE SHALL BE PG58-22
 SEE DETAIL FOR CURB AND GUTTER REMOVAL & REPLACEMENT FOR ADDITIONAL NOTES AND INFORMATION

LEGEND

① EXISTING AGGREGATE BASE	⑦ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
② EXISTING ASPHALT PAVEMENT	⑧ PROPOSED SUB-BASE GRANULAR MATERIAL, B"
③ EXISTING COMB. CURB & GUTTER REMOVAL	⑨ PROPOSED COMB. CONC. CURB AND GUTTER, TYPE B-6.12 OR B-6.18
④ EXISTING SIDEWALK REMOVAL	⑩ PROPOSED TOPSOIL FURNISH AND PLACE 6" & SEEDING CLASS 2
⑤ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	⑪ PROPOSED TOPSOIL FURNISH AND PLACE 6" & SODDING
⑥ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)	⑫ PROPOSED CLASS D PATCHES, TYPE II, 6"
	⑬ AGGREGATE BASE COURSE, TYPE B, 12"

DENOTES ITEM TO BE REMOVED
 DENOTES CLASS D PATCHES, TYPE II, 6" AREA

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
ITEM DESCRIPTION	MIXTURE TYPE	AC TYPE	AIR VOIDS
PAVEMENT RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	PG 64-22	4% @ 50 Gyr.
BIKE PATH	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	PG 64-22	4% @ 50 Gyr.
CLASS D PATCHES, TYPE II, 6", IL-19mm	BINDER IL-19mm	PG 64-22/58-22	4% @ 70 Gyr.
BITUMINOUS DRIVEWAY PAVEMENT, 12"	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 4"	PG 64-22	4% @ 50 Gyr.
ROADWAY WIDENING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"	PG 64-22	4% @ 50 Gyr.
	HOT-MIX ASPHALT BASE COURSE, B"	PG 64-22/58-22	4% @ 50 Gyr.

REVISIONS	
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1.	BDH 12-28-07

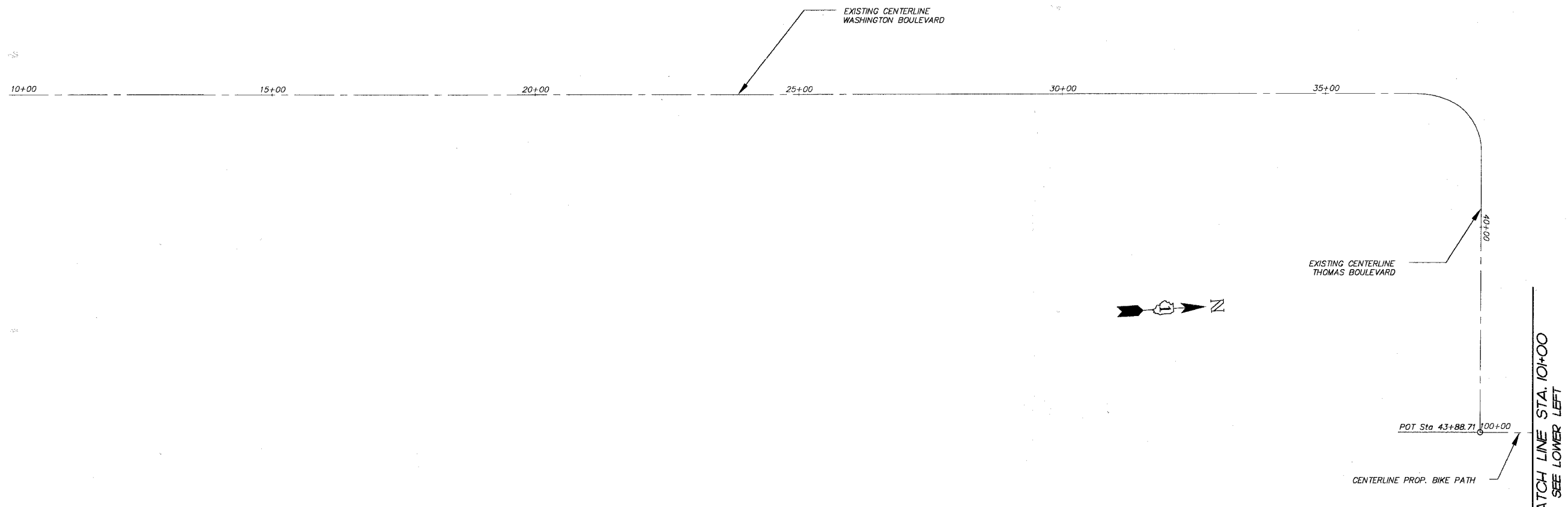
SMITH ENGINEERING CONSULTANTS, INC.
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 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF MUNDELEIN
CMAQ/SEAVEY BIKE PATH
 ROADWAY AND BIKE PATH
 TYPICAL SECTIONS

SCALE: "N"TS
 DATE 11-15-06
 DRAWN BY BDH
 CHECKED BY GFR

PLOT FILE: STANDARD
 COMP. FILE: 050480-611.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-00075-00-BT		LAKE	42	5
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
CONTRACT NO. 83890				



PROP. CURVE C1
 PC STA. = 102+55.95
 PT STA. = 102+72.63
 $\Delta = 9^{\circ} 06' 08''$
 $D = 54^{\circ} 34' 10''$
 $R = 105.00'$
 $T = 16.66'$
 $L = 16.68'$
 $E = 0.33'$

PROP. CURVE C3
 PC STA. = 103+13.99
 PT STA. = 103+30.67
 $\Delta = 9^{\circ} 06' 08''$
 $D = 54^{\circ} 34' 10''$
 $R = 105.00'$
 $T = 16.66'$
 $L = 16.68'$
 $E = 0.33'$

MATCH LINE STA. 10+00
 SEE UPPER RIGHT

PROP. CURVE C2
 PC STA. = 102+85.29
 PT STA. = 103+01.97
 $\Delta = 9^{\circ} 06' 08''$
 $D = 54^{\circ} 34' 10''$
 $R = 105.00'$
 $T = 16.66'$
 $L = 16.68'$
 $E = 0.33'$

PROP. CURVE C4
 PC STA. = 103+43.33
 PT STA. = 103+60.01
 $\Delta = 9^{\circ} 06' 08''$
 $D = 54^{\circ} 34' 10''$
 $R = 105.00'$
 $T = 16.66'$
 $L = 16.68'$
 $E = 0.33'$

PROP. CURVE C5
 PC STA. = 202+21.55
 PT STA. = 202+61.55
 $\Delta = 76^{\circ} 23' 18''$
 $D = 190^{\circ} 53' 36''$
 $R = 30.00'$
 $T = 37.10'$
 $L = 40.00'$
 $E = 6.42'$

PROP. CURVE C1
 PC STA. = 302+34.62
 PT STA. = 302+81.32
 $\Delta = 66^{\circ} 53' 10''$
 $D = 143^{\circ} 14' 42''$
 $R = 40.00'$
 $T = 44.09'$
 $L = 46.70'$
 $E = 6.62'$

BENCHMARK DESCRIPTIONS

BENCHMARK 1 CHISELED SQUARE IN THE CENTER OF THE WEST HEADWALL OF THE CULVERT UNDER MUSEUM ENTRANCE AND THE SEAVEY DRAINAGE DITCH. ELEV = 717.66

BENCHMARK 2 CHISELED SQUARE ON THE EAST HEADWALL OF THE CULVERT UNDER SHADDE AVENUE AND THE SEAVEY DRAINAGE DITCH. ELEV = 717.06.

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 *McHENRY *HUNTLEY *YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

**VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 ALIGNMENT, TIES, AND
 BENCHMARKS**

SCALE: 1" = 100'
 DATE 11-15-06

DRAWN BY BDH
 CHECKED BY CFR

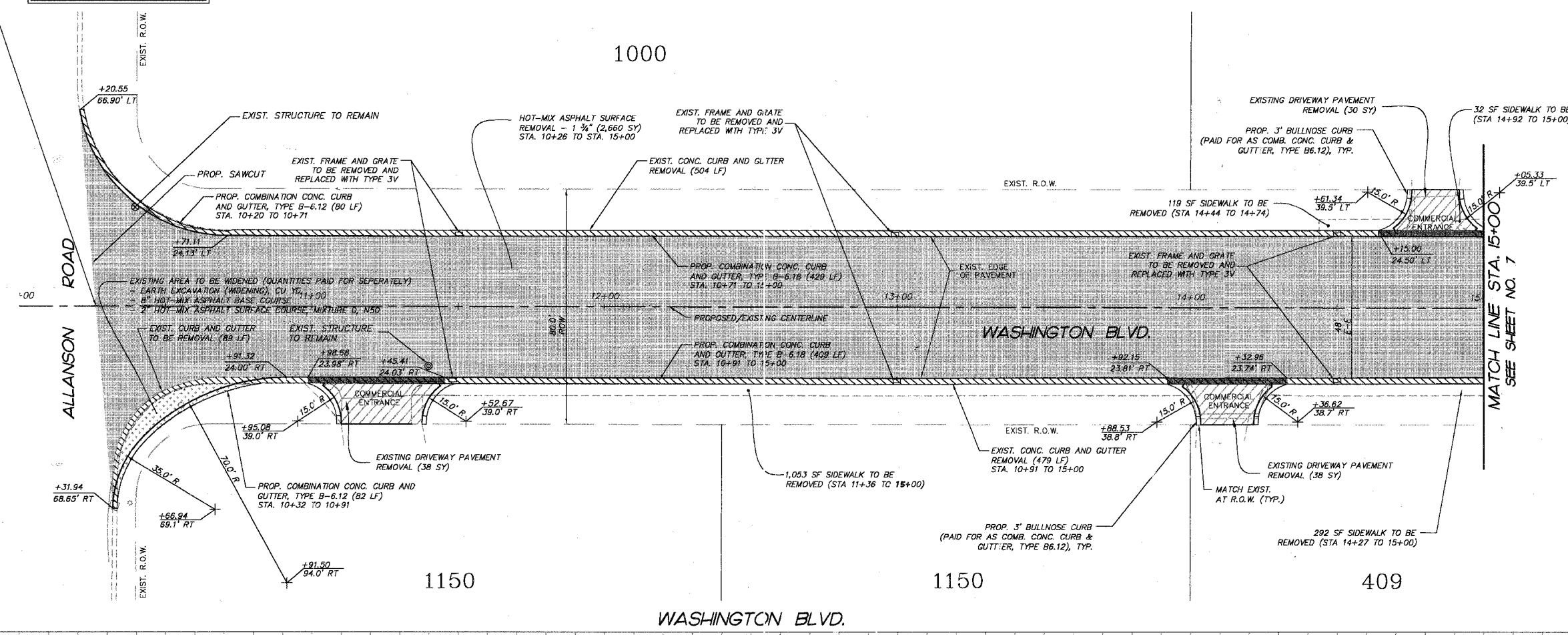
REVISIONS	
NO.	DATE
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PLOT FILE: STANDARD
 DWG: CMAQ_BIKE_PATH.dwg
 DATE: 11-15-06

F.A.P. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-00075-00-BT	LAKE	42	6	
STA. 10+00 TO STA. 15+00				
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 83890				

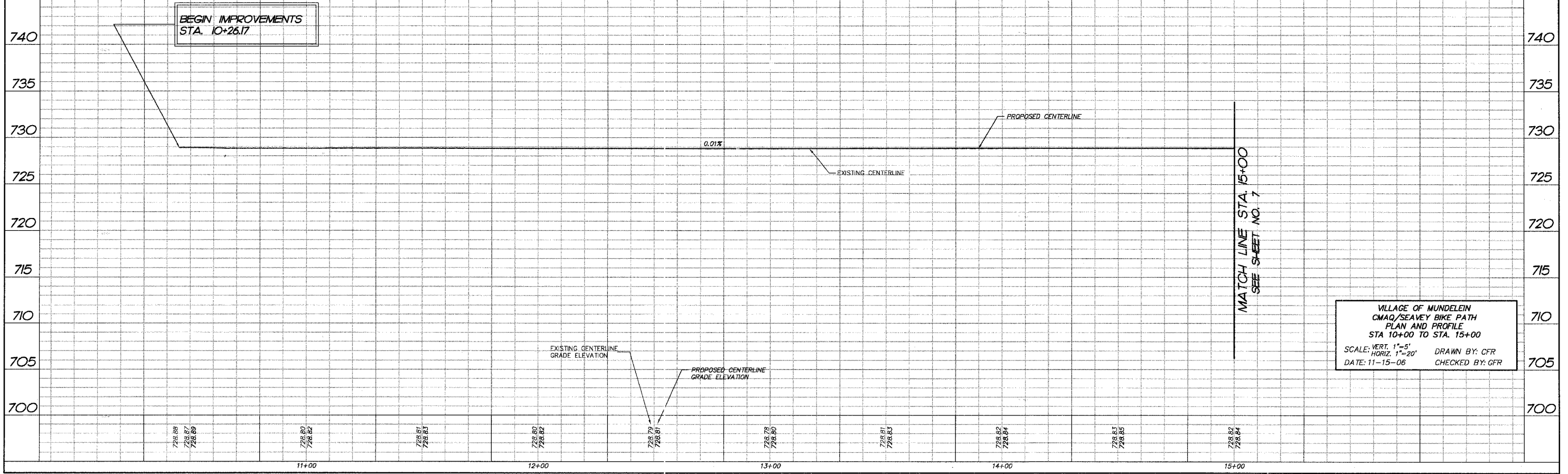
BEGIN IMPROVEMENTS
STA. 10+26.17

DATE	BY
FINAL SURVEY PLOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	



LEGEND:

- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL - 1 3/4", REPLACE WITH HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 2" (SEE TYPICAL SECTION)
- DENOTES PROPOSED BIT. DRIVEWAY PAVEMENT, 12" - 4" - HOT-MIX ASPHALT SURFACE COURSE, MIXTURE D, N50 - 8" - SUB-BASE GRANULAR MATERIAL, TYPE B
- DENOTES AREA OF COMBINATION CURB AND GUTTER REMOVAL
- DENOTES AREA OF DEPRESSED CURB
- DENOTES PROPOSED SIDEWALK RAMP WITH DETECTABLE WARNINGS
- DENOTES AREA OF PAVEMENT WIDENING



VILLAGE OF MUNDELEIN
CMAQ/SEAVEY BIKE PATH
PLAN AND PROFILE
STA 10+00 TO STA. 15+00
SCALE: VERT. 1"=5' DRAWN BY: GFR
 HORIZ. 1"=20' CHECKED BY: GFR
DATE: 11-15-06

COMP. FILE: 050462-6126.dwg
PLOT FILE:
VIEW: 06

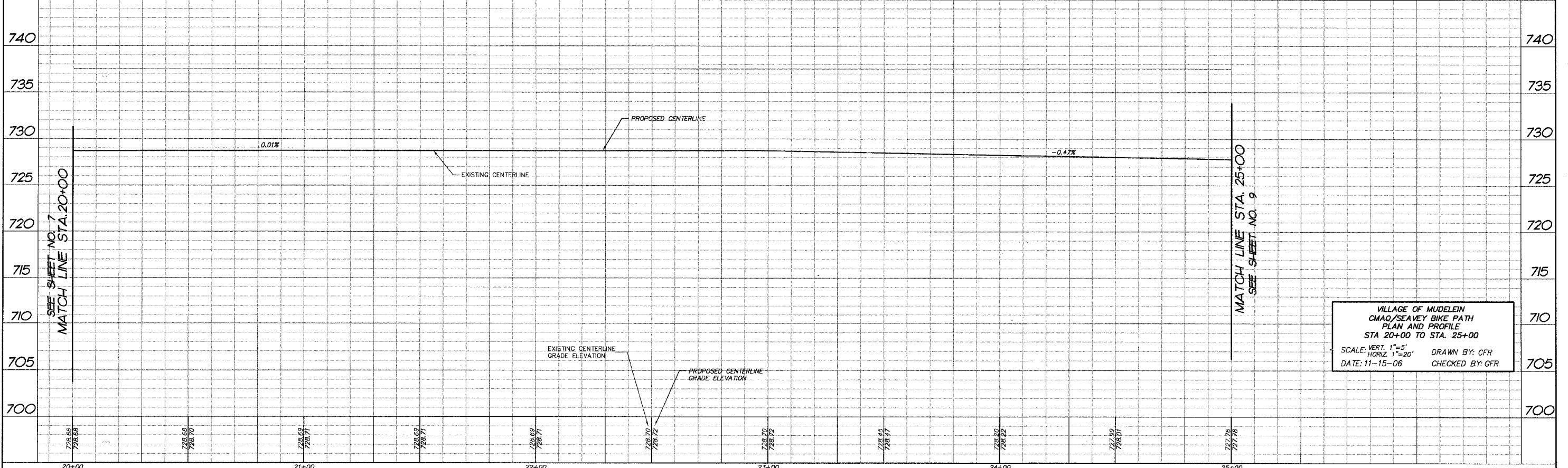
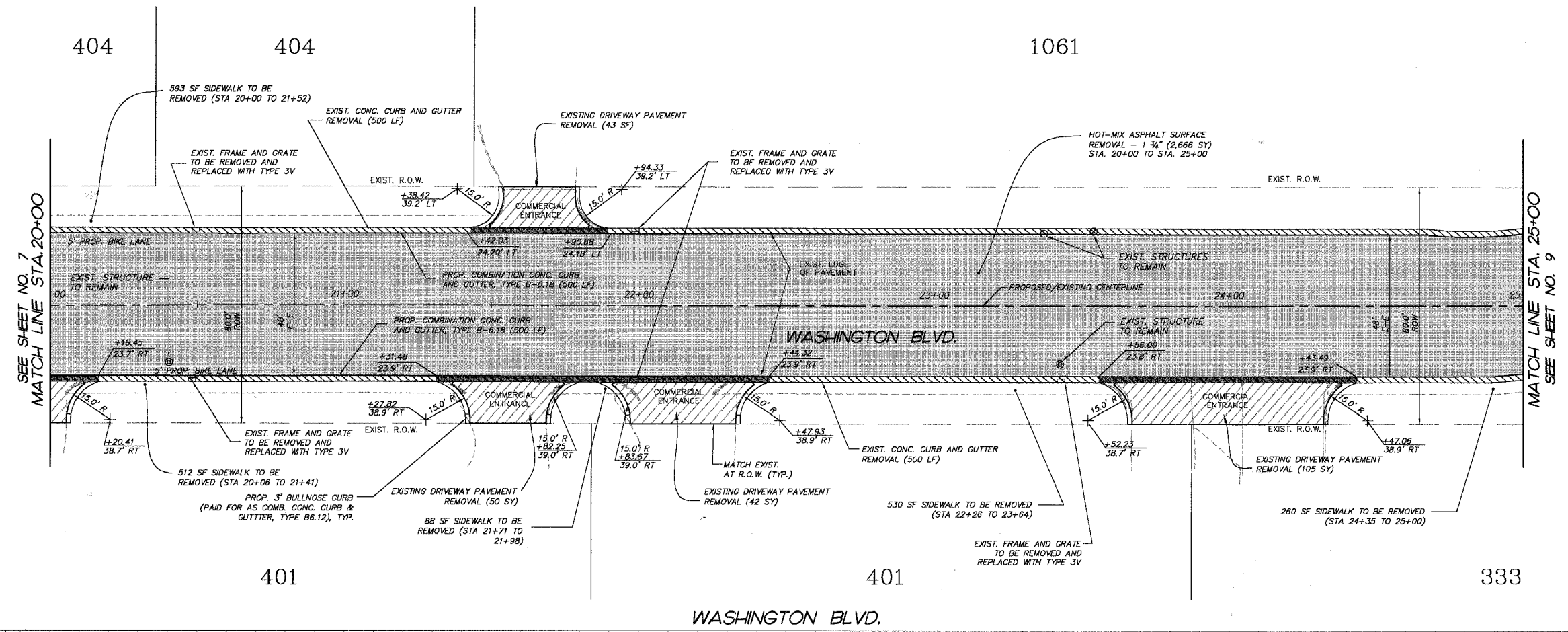
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00075-00-BT	LAKE	42	8
STA.	20+00	TO STA.	25+00	
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 83890				



LEGEND:

- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL - 1 3/4", REPLACE WITH HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NS0 - 2" (SEE TYPICAL SECTION)
- DENOTES PROPOSED BIT. DRIVEWAY PAVEMENT, 12" - 4" - HOT-MIX ASPHALT SURFACE COURSE, MIXTURE D, NS0 - 8" - SUB-BASE GRANULAR MATERIAL, TYPE B
- DENOTES AREA OF COMBINATION CURB AND GUTTER REMOVAL
- DENOTES AREA OF DEPRESSED CURB
- DENOTES PROPOSED SIDEWALK RAMP WITH DETECTABLE WARNINGS

DATE	BY
FINAL SURVEY	
PLANNED	
NOTE BOOK	
AREAS CHECKED	
NO.	



VILLAGE OF MUDELEIN
 CMAQ/SEAVEY BIKE PATH
 PLAN AND PROFILE
 STA 20+00 TO STA. 25+00
 SCALE: VERT. 1"=5'
 HORIZ. 1"=20'
 DATE: 11-15-06
 DRAWN BY: CFR
 CHECKED BY: GFR

COMP. FILE: 050460-602b.dwg
 PLOT FILE:
 VER. 08

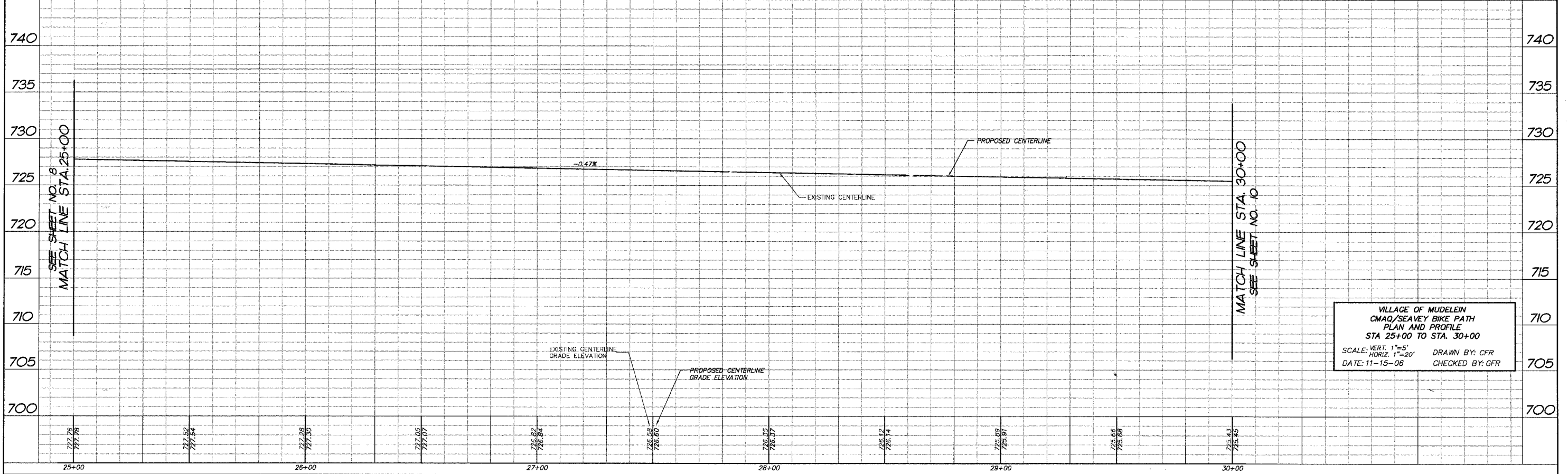
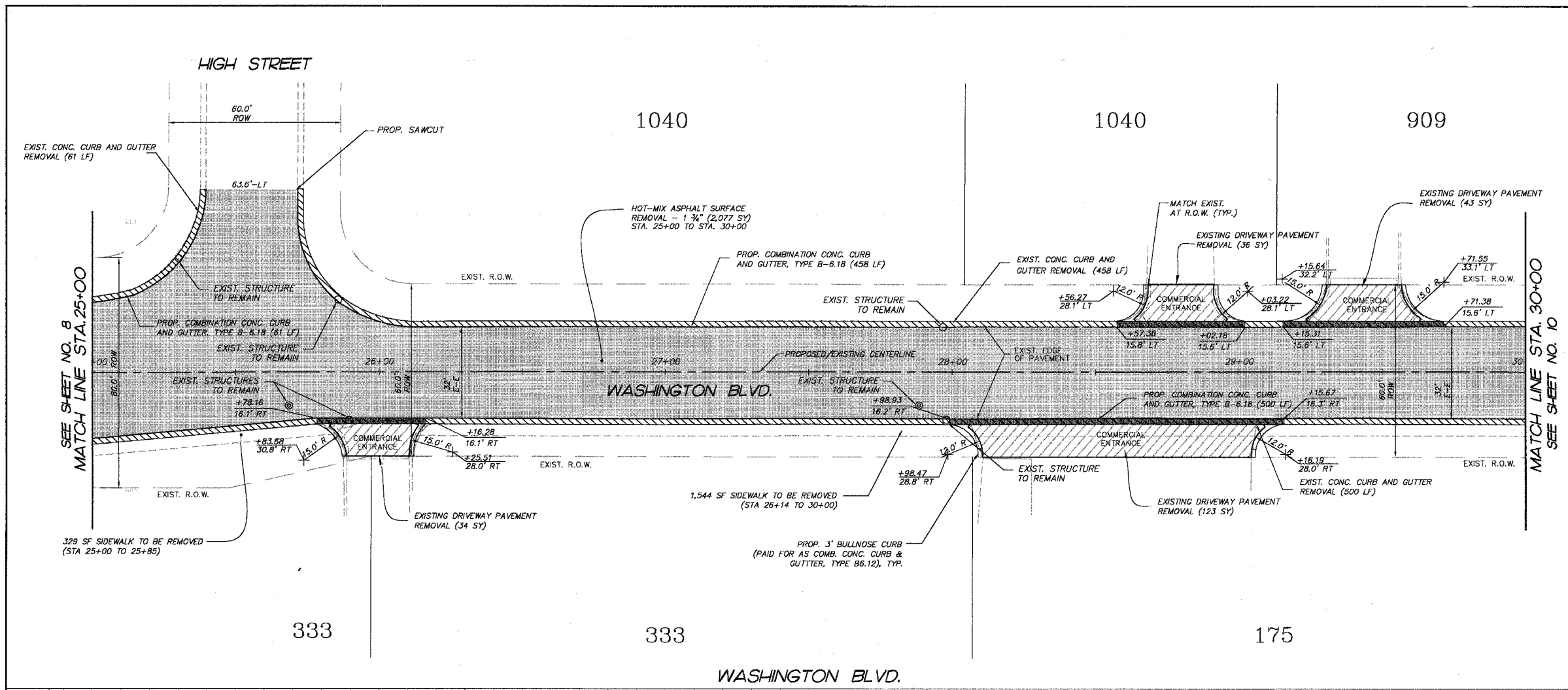
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	04-00075-00-BT	LAKE	42	9
STA. 25+00		TO STA. 30+00		
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 83890				



LEGEND:

- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL - 1 3/4", REPLACE WITH HOT-MIX ASPHALT SURFACE COURSE, MIX 10", NS0 - 2" (SEE TYPICAL SECTION)
- DENOTES PROPOSED BIT. DRIVEWAY PAVEMENT, 12" - 4" - HOT-MIX ASPHALT SURFACE COURSE, MIXTURE D, NS0 - 8" - SUB-BASE GRANULAR MATERIAL, TYPE B
- DENOTES AREA OF COMBINATION CURB AND GUTTER REMOVAL
- DENOTES AREA OF DEPRESSED CURB
- DENOTES PROPOSED SIDEWALK RAMP WITH DETECTABLE WARNINGS

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



VILLAGE OF MUDELEIN
 CMAQ/SEAVEY BIKE PATH
 PLAN AND PROFILE
 STA 25+00 TO STA. 30+00
 SCALE: VERT. 1"=5'
 HORIZ. 1"=20'
 DATE: 11-15-06
 DRAWN BY: CFR
 CHECKED BY: GFR

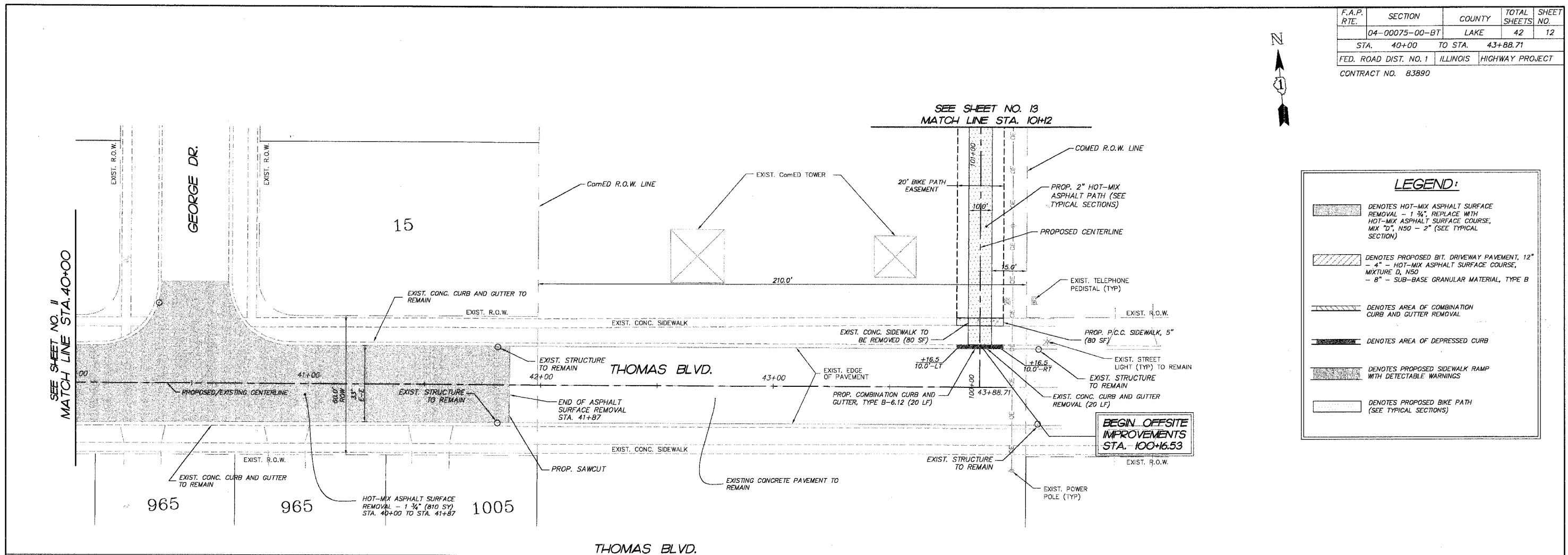
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00075-00-BT	LAKE	42	12
STA. 40+00 TO STA. 43+88.71				
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 83890				



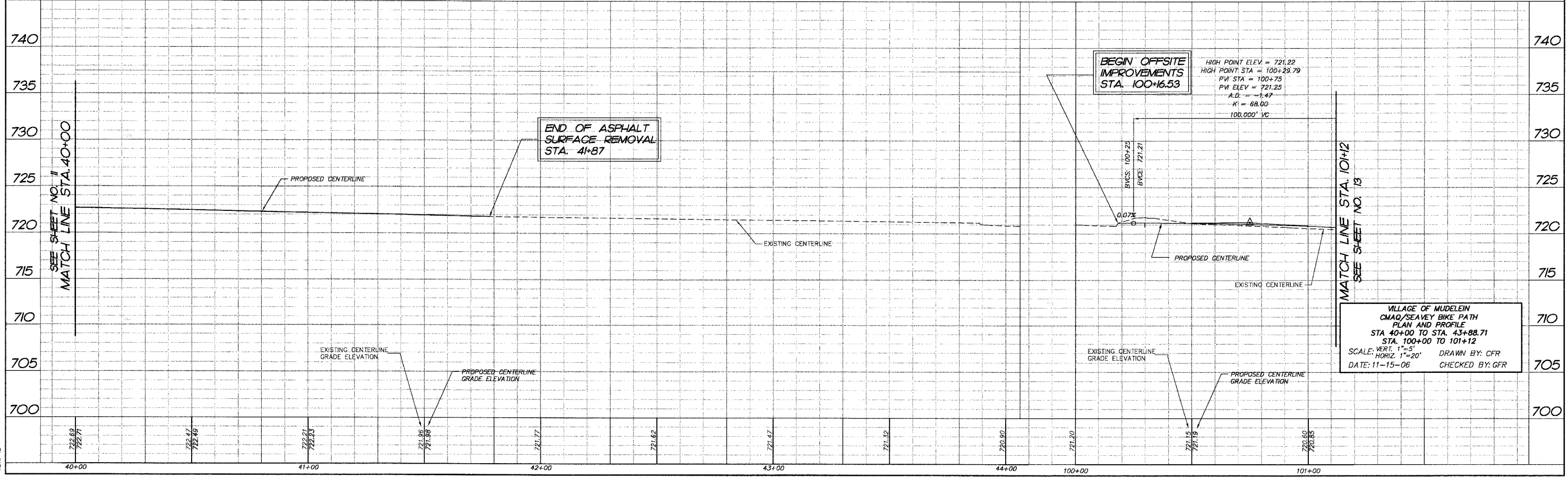
DATE	BY

FINAL SURVEY PLOTTED
NOTE BOOK TEMPLATE AREAS CHECKED



LEGEND:

- DENOTES HOT-MIX ASPHALT SURFACE REMOVAL - 1 3/4\"/>
- DENOTES PROPOSED BIT. DRIVEWAY PAVEMENT, 12\"/>
- DENOTES AREA OF COMBINATION CURB AND GUTTER REMOVAL
- DENOTES AREA OF DEPRESSED CURB
- DENOTES PROPOSED SIDEWALK RAMP WITH DETECTABLE WARNINGS
- DENOTES PROPOSED BIKE PATH (SEE TYPICAL SECTIONS)



VILLAGE OF MUDELEIN
CMAQ/SEANEY BIKE PATH
PLAN AND PROFILE
STA. 40+00 TO STA. 43+88.71
STA. 100+00 TO 101+12
SCALE: VERT. 1"=5'
HORIZ. 1"=20'
DATE: 11-15-06
DRAWN BY: CFR
CHECKED BY: GFR

COMP. FILE: 050460-6026.dwg
PLOT FILE:
VIEW: 12

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-00075-00-BT	LAKE	LAKE	42	13
STA. 101+12 TO STA. 106+12				
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 83890				

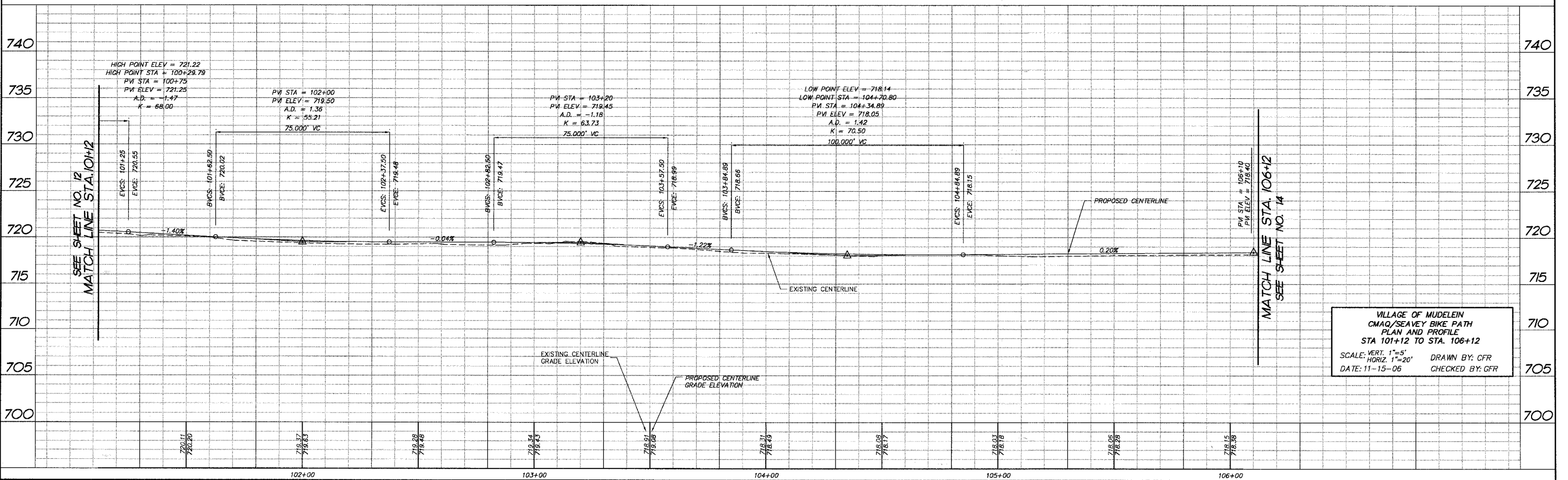
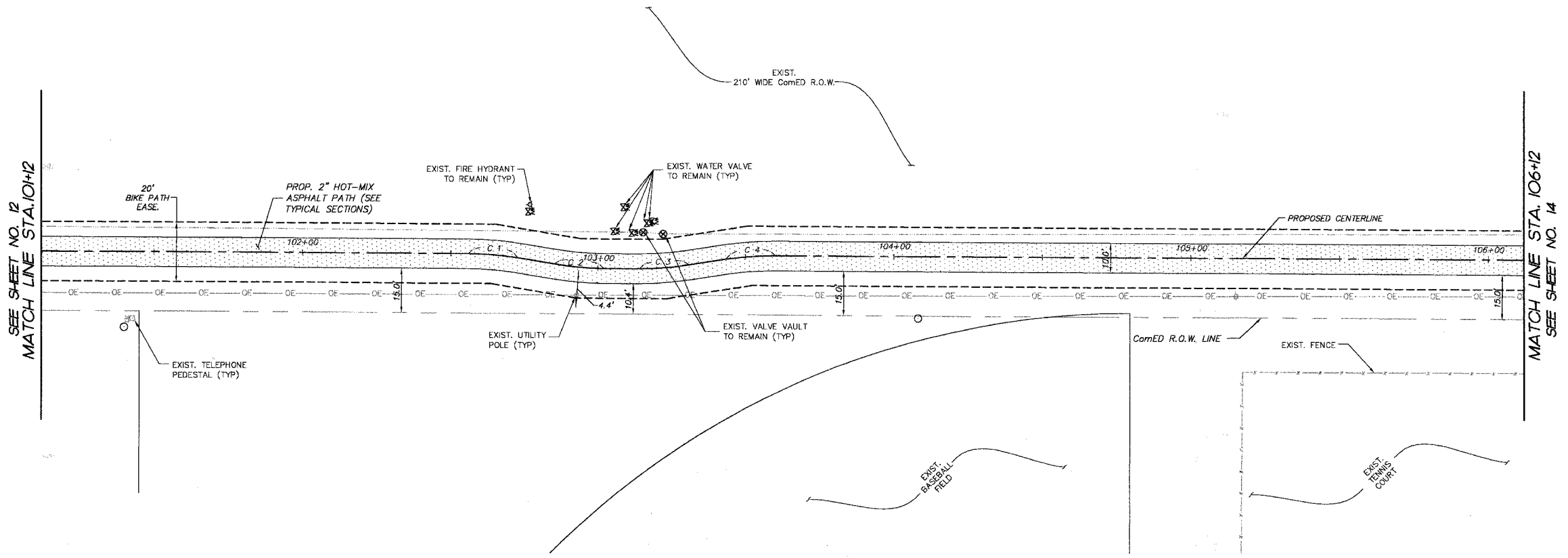
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C 1	16.68'	105.00'	16.66'	S08°21'02"W	102+55.95	102+72.63
C 2	16.68'	105.00'	16.66'	N08°21'02"E	102+85.29	103+01.97
C 3	16.68'	105.00'	16.66'	N00°45'06"W	103+13.99	103+30.67
C 4	16.68'	105.00'	16.66'	S20°45'06"E	103+43.33	103+60.01



LEGEND:

DENOTES PROPOSED BIKE PATH (SEE TYPICAL SECTIONS)

NO.	AREAS CHECKED	NOTE BOOK TEMPLATE	BY	DATE



VILLAGE OF MUDELEIN
CMAQ/SEAVEY BIKE PATH
PLAN AND PROFILE
STA 101+12 TO STA. 106+12

SCALE: VERT. 1"=5'
HORIZ. 1"=20'

DATE: 11-15-06


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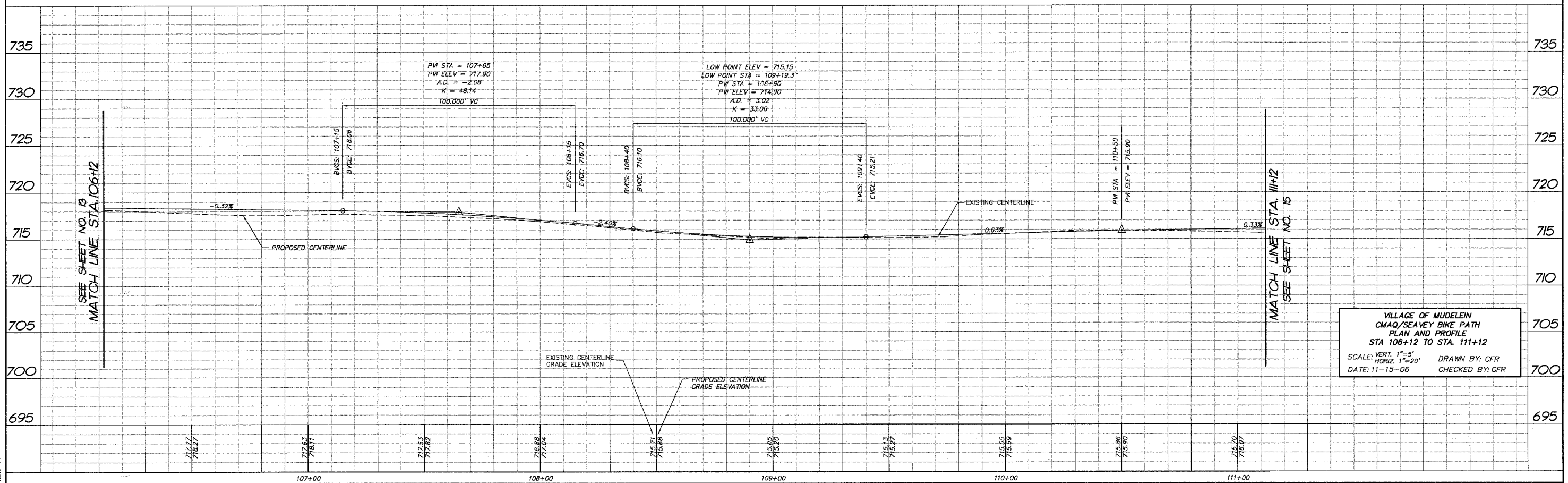
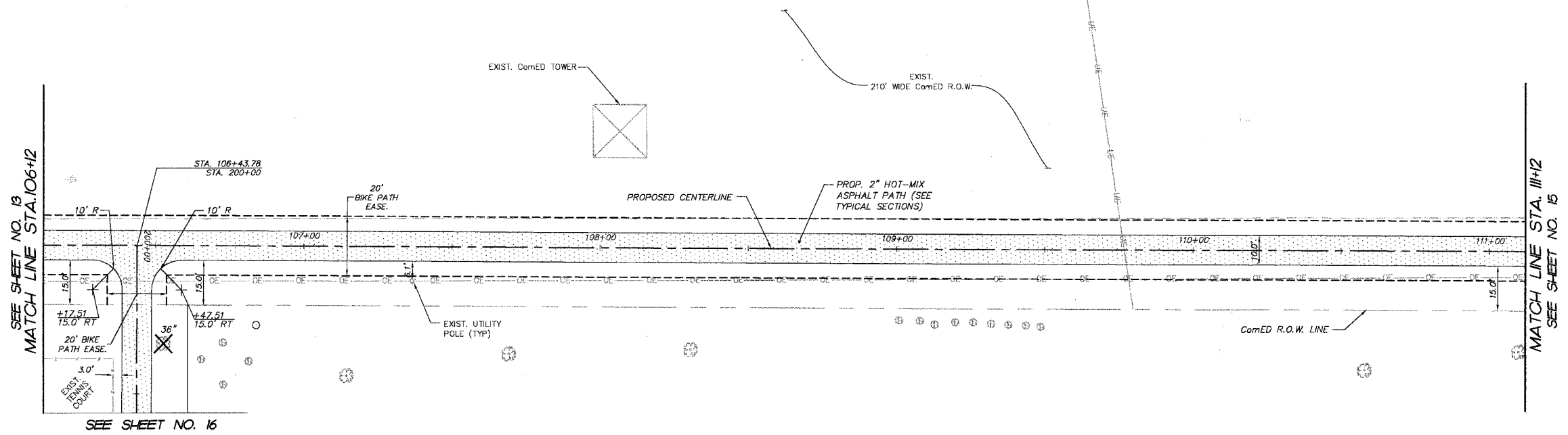
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	04-00075-00-BT	LAKE	42	14
STA. 106+12		TO STA. 111+12		
FED. ROAD DIST. NO. 1		ILLINOIS		HIGHWAY PROJECT
CONTRACT NO. 83890				



LEGEND:

 DENOTES PROPOSED BIKE PATH (SEE TYPICAL SECTIONS)

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

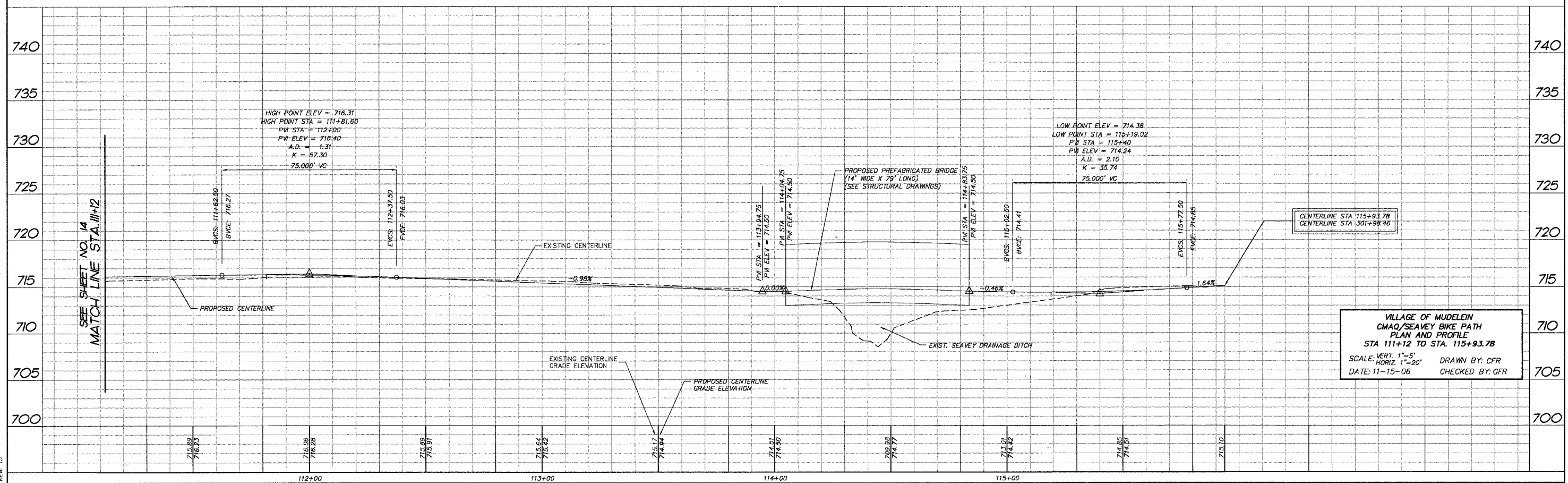
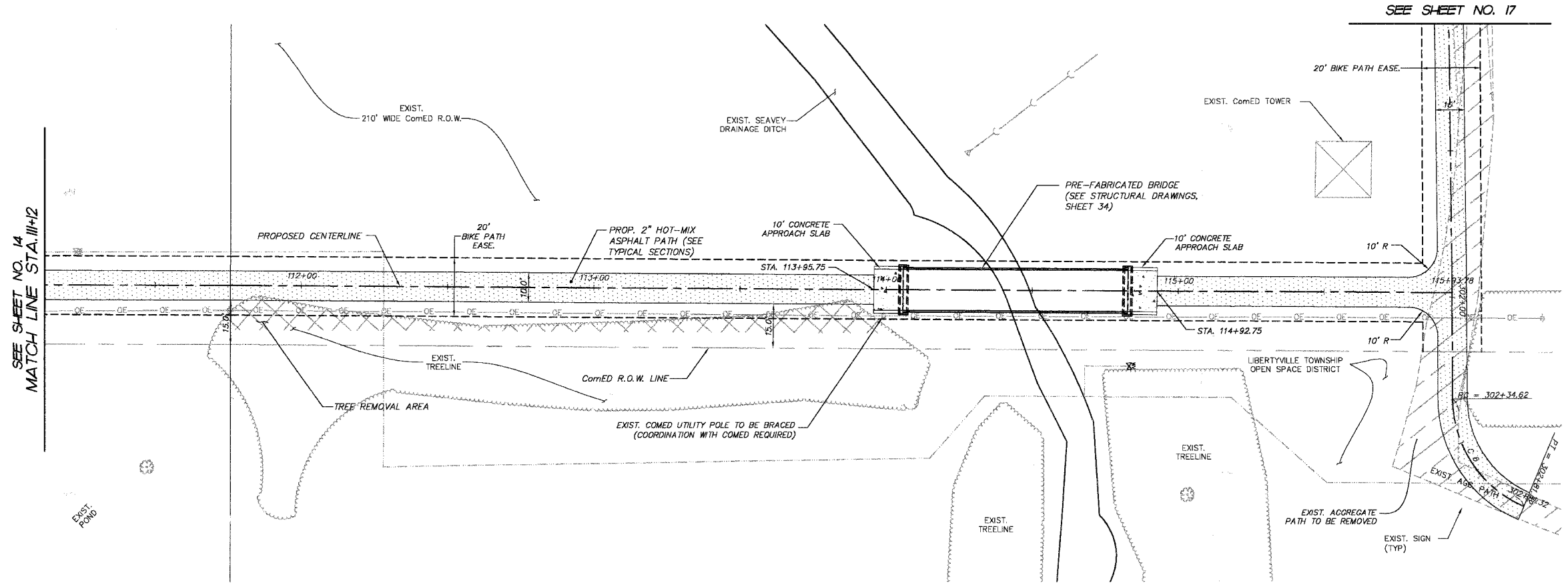


VILLAGE OF MUDELEIN
 CMAQ/SEAVEY BIKE PATH
 PLAN AND PROFILE
 STA 106+12 TO STA. 111+12
 SCALE: VERT. 1"=5'
 HORIZ. 1"=20'
 DATE: 11-15-06
 DRAWN BY: CFR
 CHECKED BY: GFR

CSWP FILE: 050460-602b.dwg
 PLOT FILE:
 VIEW: 14

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00075-00-BT	KANE	42	15
STA. 111+12		TO STA. 115+93.78		
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 83890				

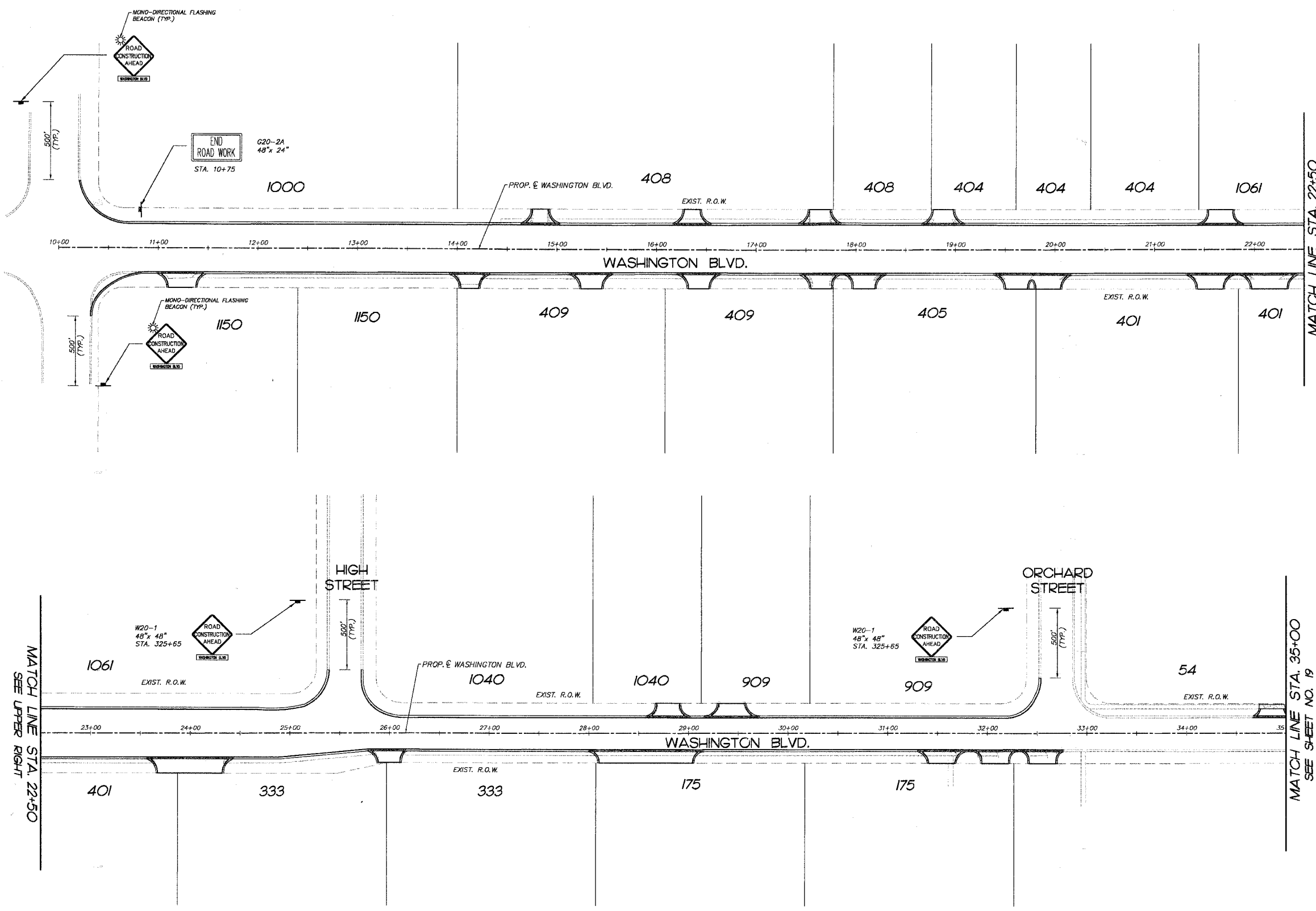
FINAL SURVEY NO.	BY	DATE
SURVEY PLOTTED		
NOTE BOOK NO.		
TEMPLATE AREAS CHECKED		
AREAS CHECKED		



VILLAGE OF MUDELEIN
 CMAQ/SEAVEY BIKE PATH
 PLAN AND PROFILE
 STA 111+12 TO STA. 115+93.78
 SCALE: VERT. 1"=5'
 HORIZ. 1"=20'
 DATE: 11-15-06
 DRAWN BY: CFR
 CHECKED BY: GFR

COMP. FILE: 030460-602b.dwg
 DATE: 11-15-06
 VFW: 15

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	18
STA.	10+00	TO STA.	22+50	
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
CONTRACT NO. 83890				



- SUGGESTED MAINTENANCE OF TRAFFIC GENERAL NOTES:**
1. TRAFFIC SHALL BE MAINTAINED PER STANDARD 701301-02.
 2. THE CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
 3. ALL TEMPORARY CONSTRUCTION SIGNS SHALL HAVE FLOURESCENT ORANGE BACKGROUND.
 4. TEMPORARY SIGNING, AS SHOWN, SHALL CONFORM TO ALL APPLICABLE STANDARDS INCLUDED ON THE SPECIAL PROVISIONS AND CONTRACT PLANS OR AS DIRECTED BY THE ENGINEER. ALL COSTS ASSOCIATED WITH TRAFFIC CONTROL SHALL BE INCLUDED IN THE ITEM "TRAFFIC CONTROL AND PROTECTION, 701501" and "TRAFFIC CONTROL AND PROTECTION, 701502".
 5. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE STATE OF ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
 6. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH THE NAMES AND PHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE (INCLUDING A 24-HOUR EMERGENCY NUMBER) AND HIS REPRESENTATIVES SHALL BE RESPONSIBLE FOR THE SIGNING PRIOR TO THE START OF WORK.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD LOCATION OF ALL CONSTRUCTION SIGNING. THE CONTRACTOR MAY REQUEST THE ENGINEER TO FIELD VERIFY THE POSITIONS OF ANY SIGN.
 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24-HOURS EACH DAY, INCLUDING SUNDAYS AND HOLIDAYS.
 9. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE SUPPORTS.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL CONSTRUCTION SIGNS, INCLUDING BRUSHING BACK VEGETATION, IF DEEMED NECESSARY BY THE ENGINEER.
 11. EXISTING TRAFFIC CONTROL DEVICES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. ANY DAMAGED TRAFFIC CONTROL DEVICES CAUSED BY HIS/HER WORK SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
 12. REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.
 13. TYPE II BARRICADES WITH STEADY BURN MONODIRECTIONAL LAMPS SHALL BE PLACED ALONG ALL CURB AND OUTER THAT IS BEING REMOVED AND REPLACED.
 14. A CRANE MAY NOT BE PERMITTED WITHIN THE COMED EASEMENT FOR THE INSTALLATION OF PEDESTRIAN BRIDGE DUE TO OVERHEAD HIGH TENSION WIRES. ALTERNATIVE MEANS OF INSTALLATION OF THE PEDESTRIAN BRIDGE MAY NEED TO BE CONSIDERED.
 15. THE CONTRACTOR MUST COORDINATE WITH COMED PRIOR TO START OF CONSTRUCTION.
 16. THE PEDESTRIAN BRIDGE SHALL BE DELIVERED TO THE INSTALLATION LOCATION UTILIZING THE PREPARED OFF-STREET BIKE PATH EASEMENT PRIOR TO CONSTRUCTION OF THE BIKE PATH.

MATCH LINE STA. 22+50
SEE UPPER RIGHT

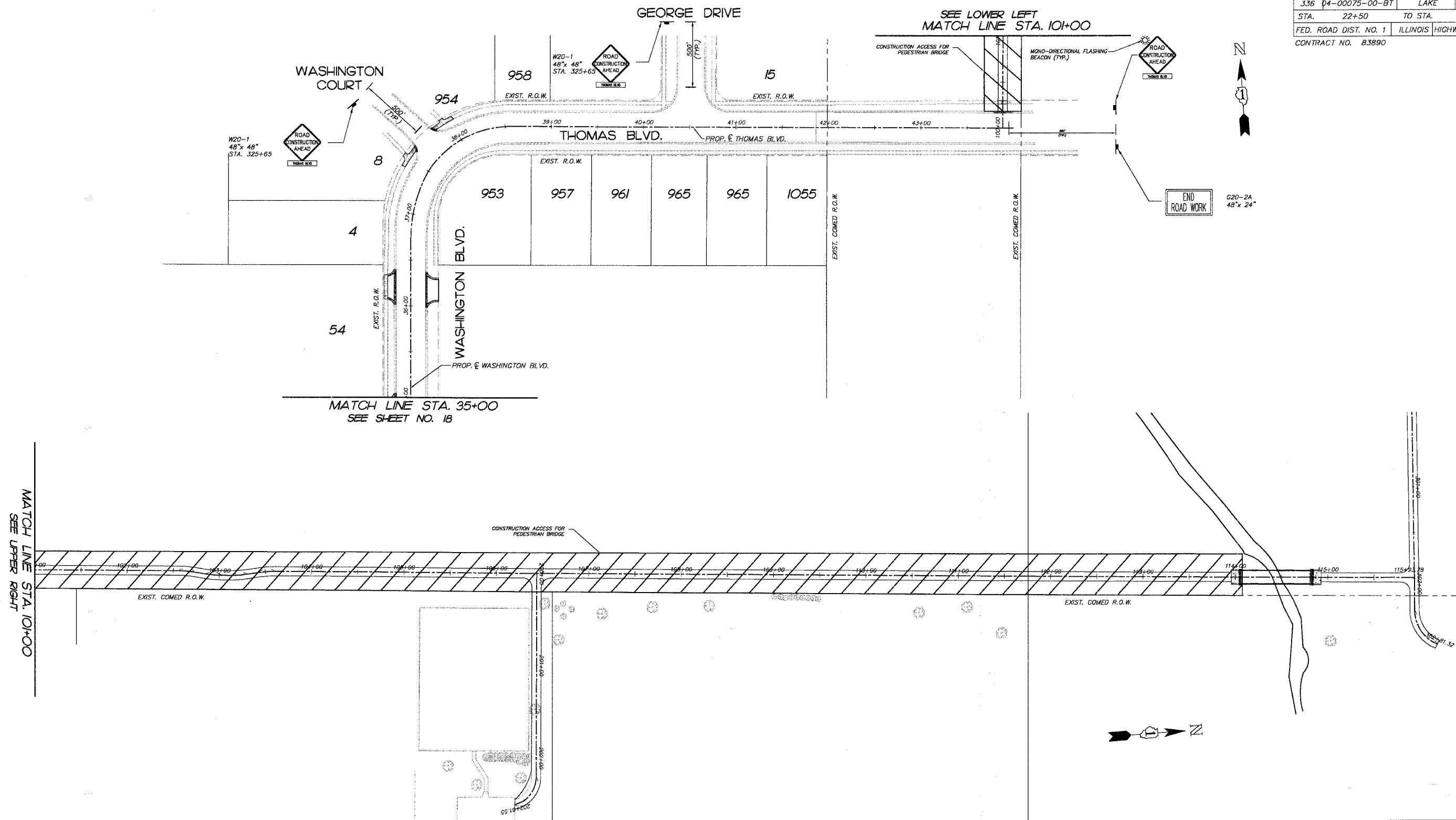
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 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 SUGGESTED MAINTENANCE OF TRAFFIC PLAN
 STA. 10+00 TO STA. 35+00
 SCALE: 1" = 50'
 DATE 11-15-06
 DRAWN BY BDH
 CHECKED BY GFR

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	19
STA.	22+50	TO STA.	43+00	
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		

CONTRACT NO. 83890



MATCH LINE STA. 101+00
SEE UPPER RIGHT

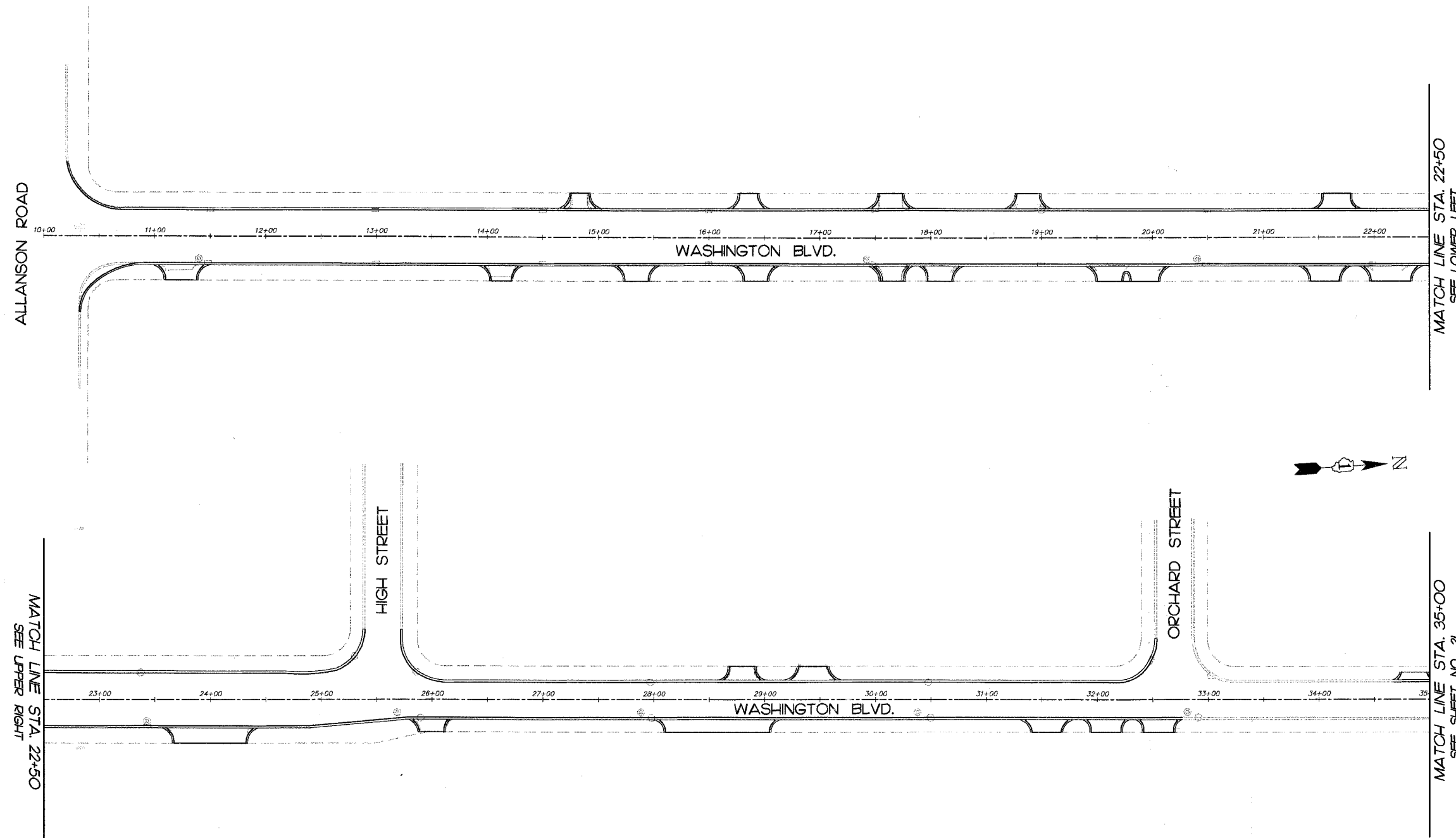
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 MCKENRY HUNTLEY FORTVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 SUGGESTED MAINTENANCE OF
 TRAFFIC PLAN
 STA. 35+00 TO STA. 43+00 &
 STA. 101+00 TO 114+00
 SCALE: 1" = 50'
 DATE 11-15-06
 DRAWN BY BDH
 CHECKED BY GFR

PLOT FILE: STANDARD
 COMP. FILE: 050460-627.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	20
STA.	10+00	TO STA.	35+00	
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
CONTRACT NO. 83890				



EROSION CONTROL NOTES:

A. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY OR PERMANENT MEASURES.

B. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.

C. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.

D. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3:1V, AND APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE STABILIZED WITH SOD, MAT, OR BLANKET IN COMBINATION WITH SEEDING.

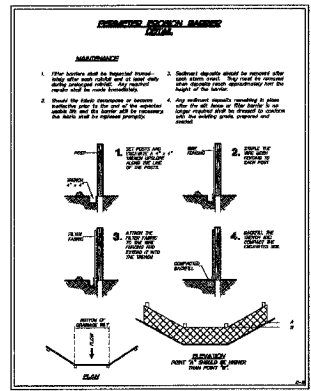
E. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.

F. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

G. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED.

H. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF LAKE COUNTY.

I. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE).



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 MOHENTY HUNTLEY YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

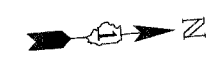
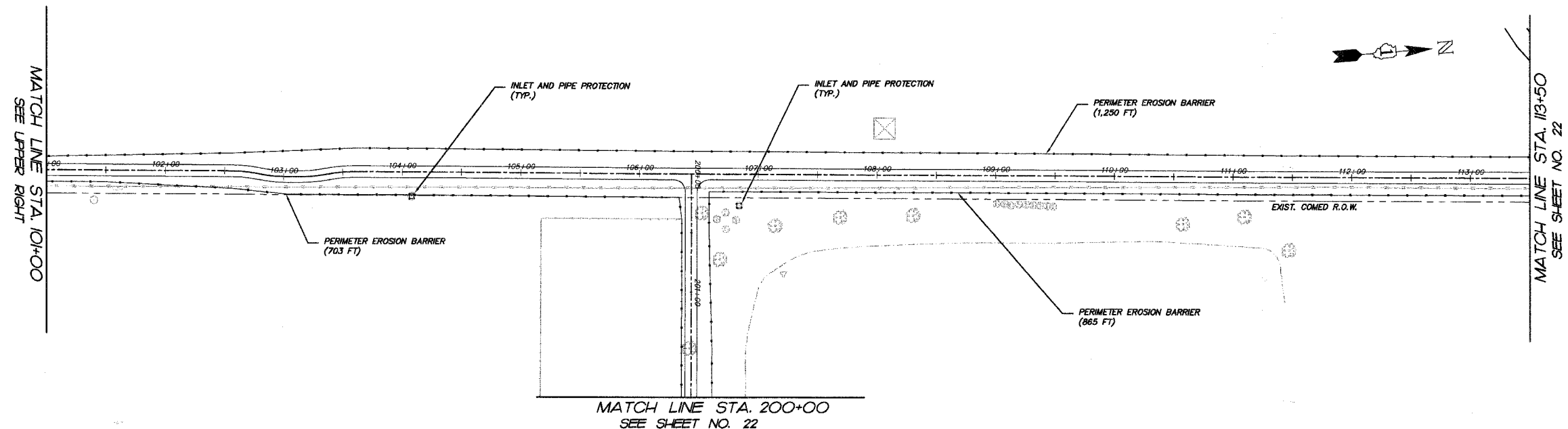
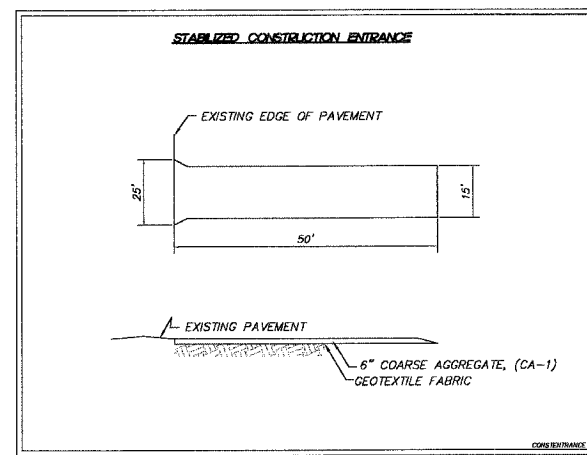
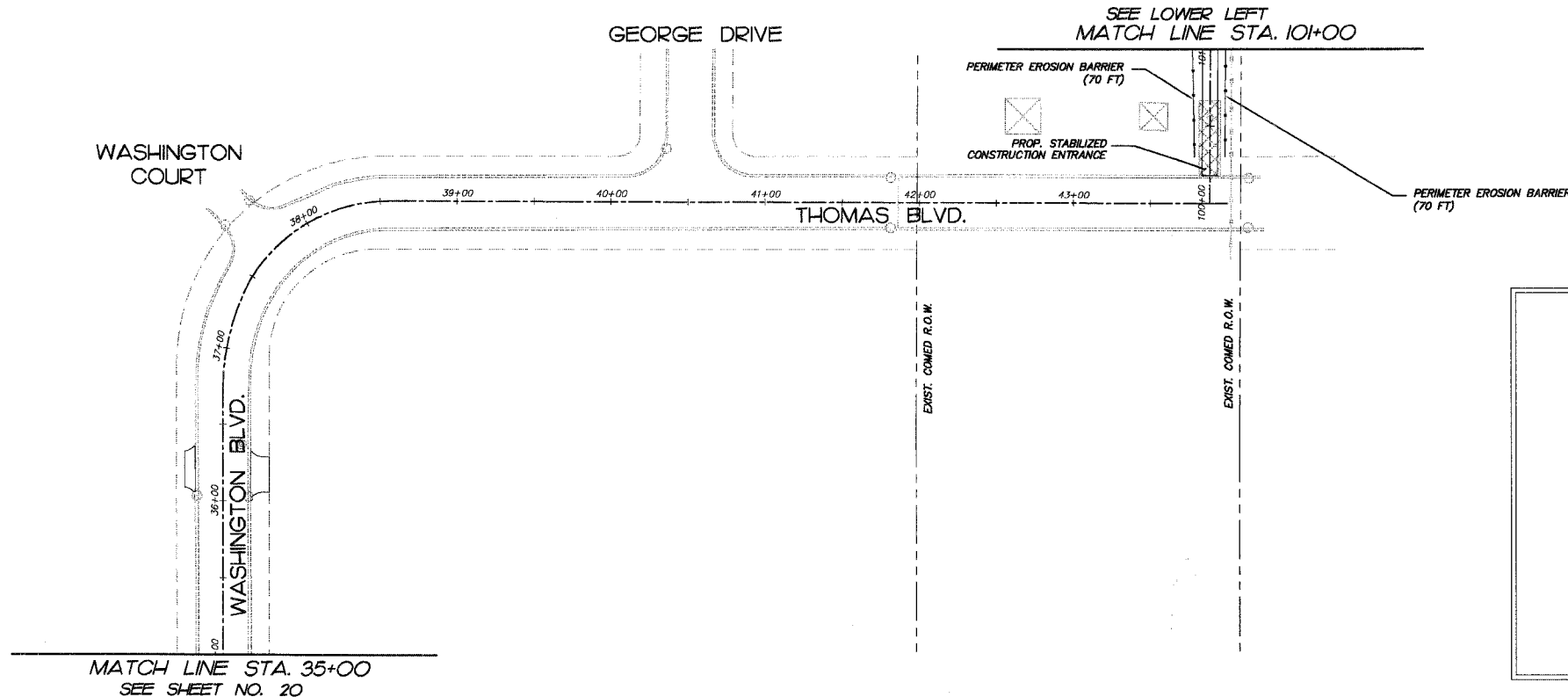
ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 EROSION CONTROL PLAN
 STA. 10+00 TO STA. 35+00

SCALE: 1" = 50'
 DATE 11-15-06
 DRAWN BY BDH
 CHECKED BY GFR

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PLOT FILE: STANDARD
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	D4-00075-00-BT	LAKE	42	21
STA.	35+00	TO STA.	113+50.3	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			
CONTRACT NO. 83890				



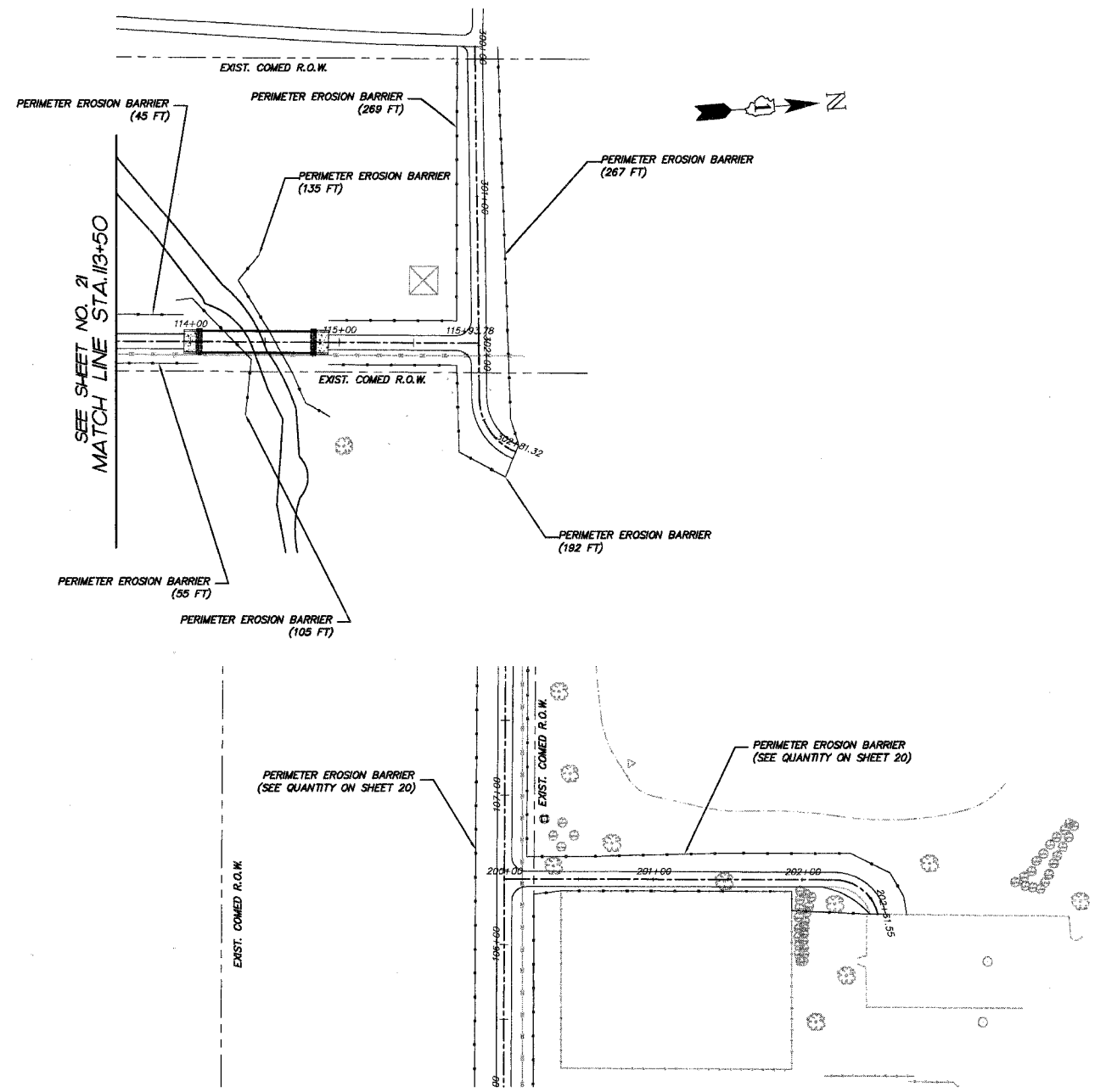
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 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 EROSION CONTROL PLAN
 STA. 35+00 TO 43+88.71 AND
 STA. 100+00 TO 101+00
 SCALE: 1" = 50'
 DATE: 11-15-06
 DRAWN BY: BDH
 CHECKED BY: GFR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	22
STA.	-	TO STA.	-	-
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 83890				



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ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 EROSION CONTROL PLAN
 STA. 113+50 TO 115+93.78,
 STA. 200+00 TO 202+61.55,
 AND STA. 300+00 TO 302+81+32
 SCALE: 1" = 50'
 DATE 11-15-06
 DRAWN BY BDH
 CHECKED BY GFR

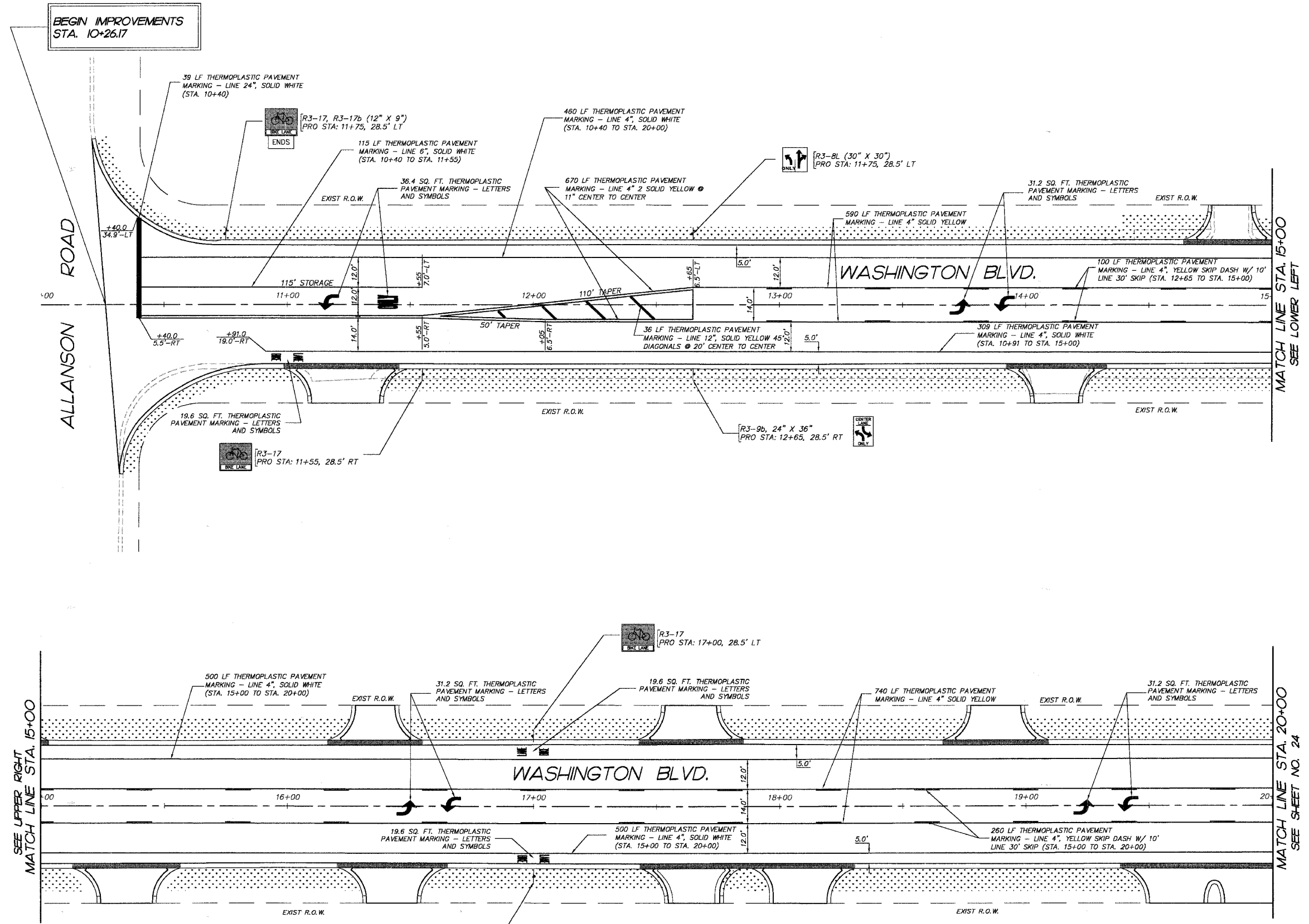
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	D4-00075-00-BT	LAKE	42	23
STA.	10+00	TO STA.	20+00	
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
CONTRACT NO. 83890				



- NOTES:**
- PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL SHEET.
 - EXISTING SIGNS TO REMAIN SHALL BE PRESERVED

LEGEND

INDICATES PROP. TOPSOIL FURNISH AND PLACE, 6" AND SODDING



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ILLINOIS DEPARTMENT OF TRANSPORTATION

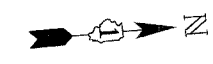
VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 SIGNING, STRIPING, AND
 RESTORATION PLAN
 STA. 10+00 TO STA. 20+00

SCALE: 1" = 20'
 DATE 11-15-06

DRAWN BY CFR
 CHECKED BY GFR

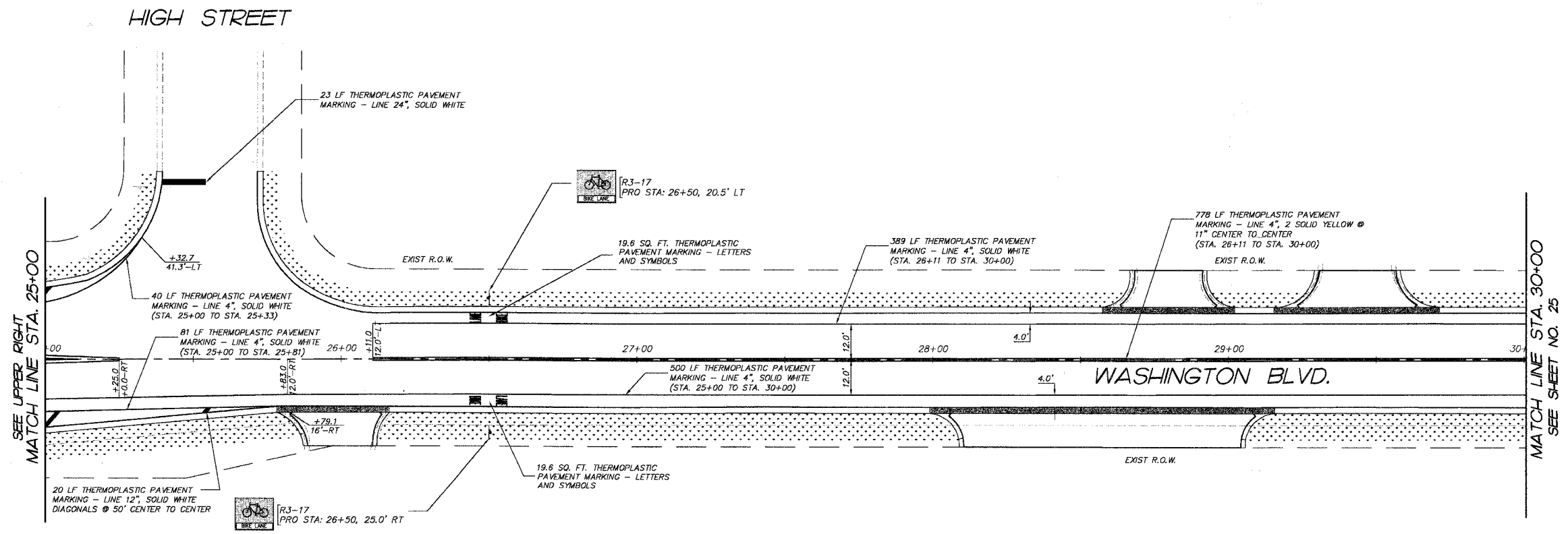
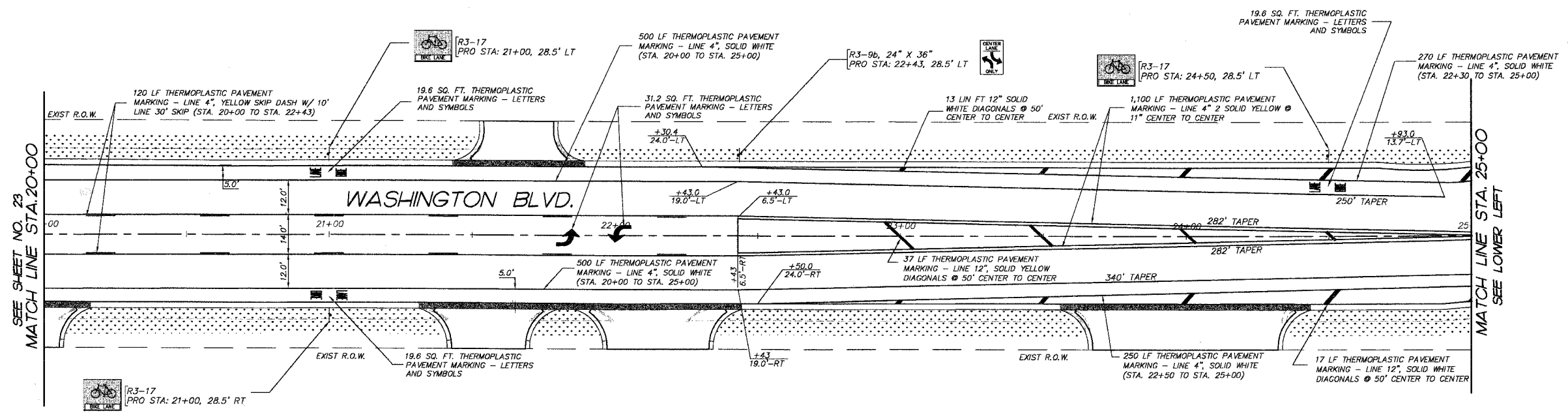
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	24
STA.	20+00	TO STA.	30+00	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			
CONTRACT NO. 83890				



- NOTES:**
- PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL SHEET.
 - EXISTING SIGNS TO REMAIN SHALL BE PRESERVED

- LEGEND**
- INDICATES PROP. TOPSOIL FURNISH AND PLACE, 6" AND SODDING



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 MCHENRY, FILE: 050460-605.dwg

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ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 SIGNING, STRIPING, AND
 RESTORATION PLAN
 STA. 20+00 TO STA. 30+00

SCALE: 1" = 20'
 DATE 11-15-06
 DRAWN BY CFR
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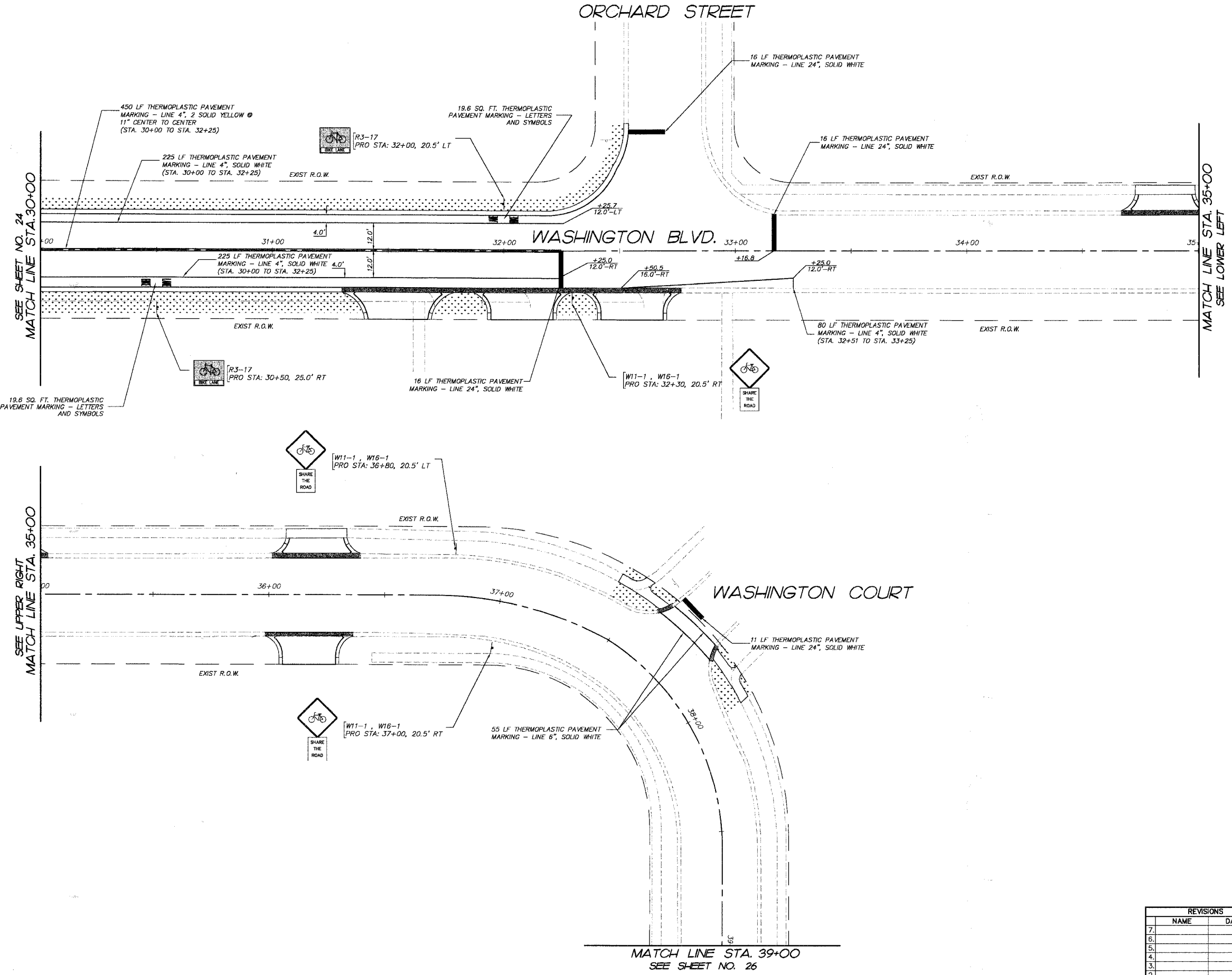
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	25
STA. 30+00	TO STA. 39+00			
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 83890				



- NOTES:**
- PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL SHEET.
 - EXISTING SIGNS TO REMAIN SHALL BE PRESERVED

LEGEND

INDICATES PROP. TOPSOIL FURNISH AND PLACE, 6" AND SODDING



PLOT FILE STANDARD
 DATE: 25
 COMP. FILE: 050460-805.dwg

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ILLINOIS DEPARTMENT OF TRANSPORTATION

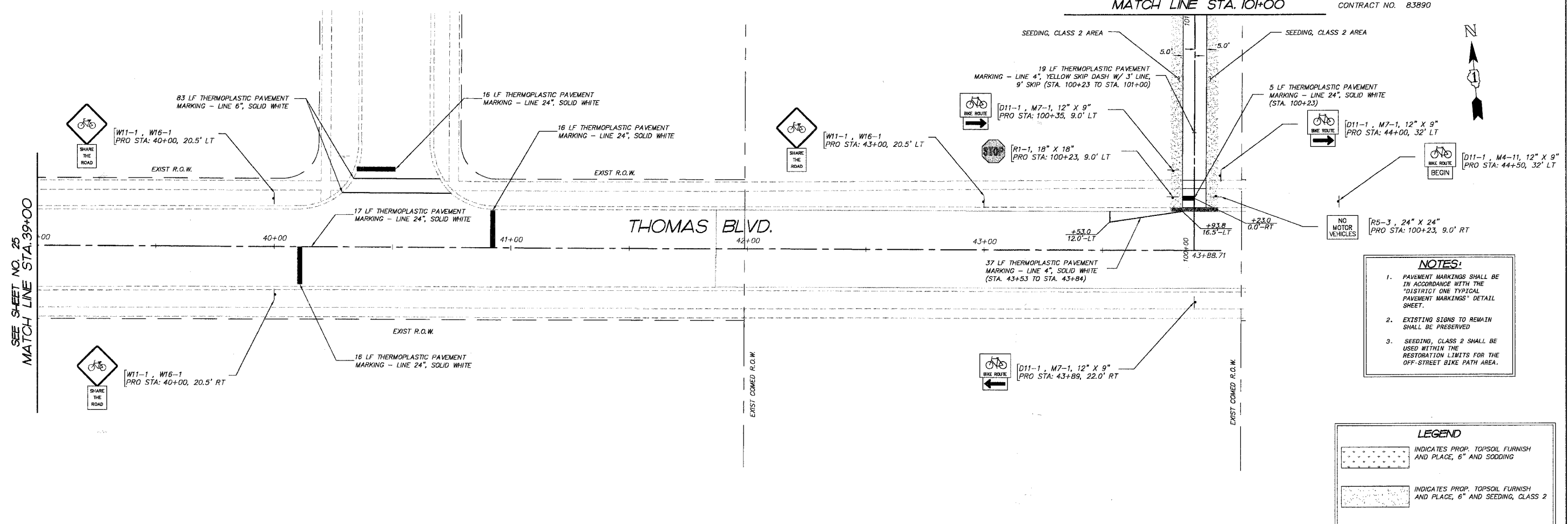
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 SIGNING, STRIPING, AND
 RESTORATION PLAN
 STA. 30+00 TO STA. 39+00
 SCALE: 1" = 20'
 DATE 11-15-06
 DRAWN BY GFR
 CHECKED BY GFR

MATCH LINE STA. 39+00
 SEE SHEET NO. 26

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	26
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			
CONTRACT NO. 83890				

GEORGE DRIVE

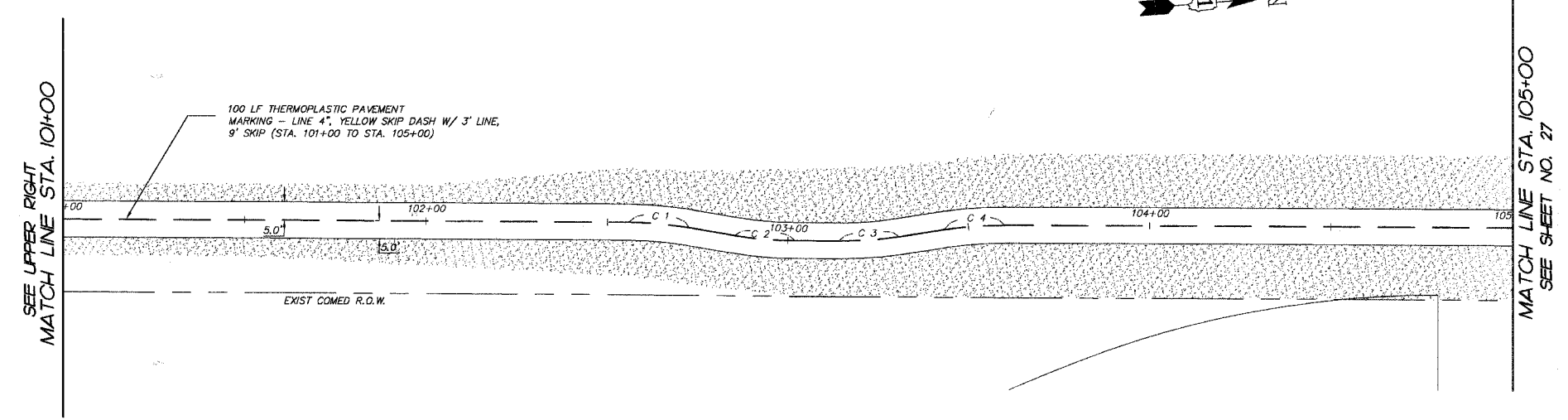
SEE LOWER LEFT
MATCH LINE STA. 101+00



- NOTES:**
- PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL SHEET.
 - EXISTING SIGNS TO REMAIN SHALL BE PRESERVED.
 - SEEDING, CLASS 2 SHALL BE USED WITHIN THE RESTORATION LIMITS FOR THE OFF-STREET BIKE PATH AREA.

LEGEND

	INDICATES PROP. TOPSOIL FURNISH AND PLACE, 6" AND SODDING
	INDICATES PROP. TOPSOIL FURNISH AND PLACE, 6" AND SEEDING, CLASS 2



SEE UPPER RIGHT
MATCH LINE STA. 101+00

MATCH LINE STA. 105+00
SEE SHEET NO. 27

REVISIONS

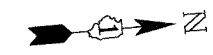
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 SIGNING, STRIPING, AND
 RESTORATION PLAN
 STA. 39+00 TO STA. 43+88.71 &
 STA. 100+00 TO STA. 105+00
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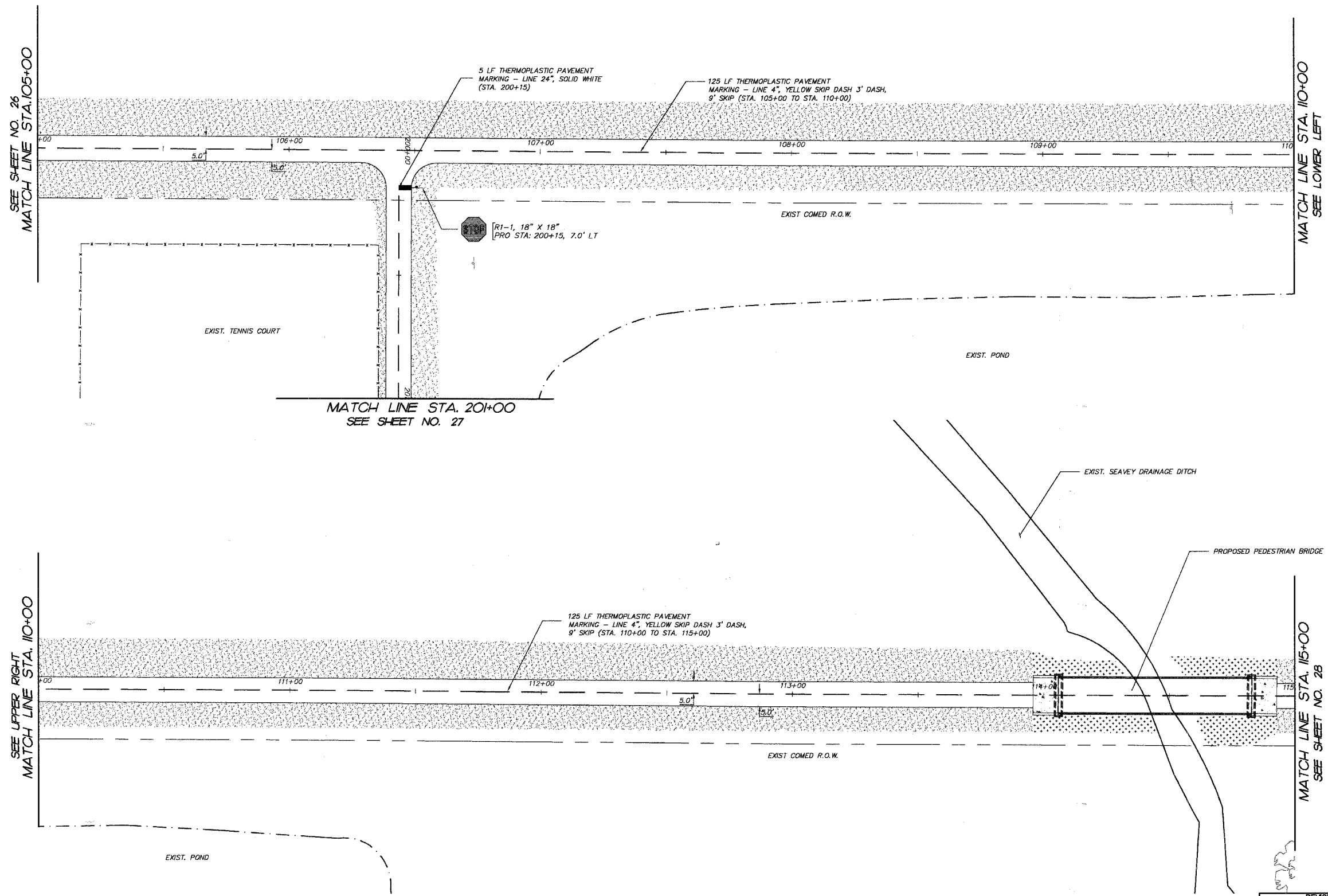
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	27
STA.	105+00	TO STA.	115+00	
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
CONTRACT NO. 83890				



- NOTES:**
- PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL SHEET.
 - EXISTING SIGNS TO REMAIN SHALL BE PRESERVED
 - SEEDING, CLASS 2 SHALL BE USED WITHIN THE RESTORATION LIMITS FOR THE OFF-STREET BIKE PATH AREA.

LEGEND

	INDICATES PROP. TOPSOIL FURNISH AND PLACE, 6" AND SODDING
	INDICATES PROP. TOPSOIL FURNISH AND PLACE, 6" AND SEEDING, CLASS 2
	INDICATES PROP. TOPSOIL FURNISH AND PLACE, 6" AND SEEDING, CLASS 4



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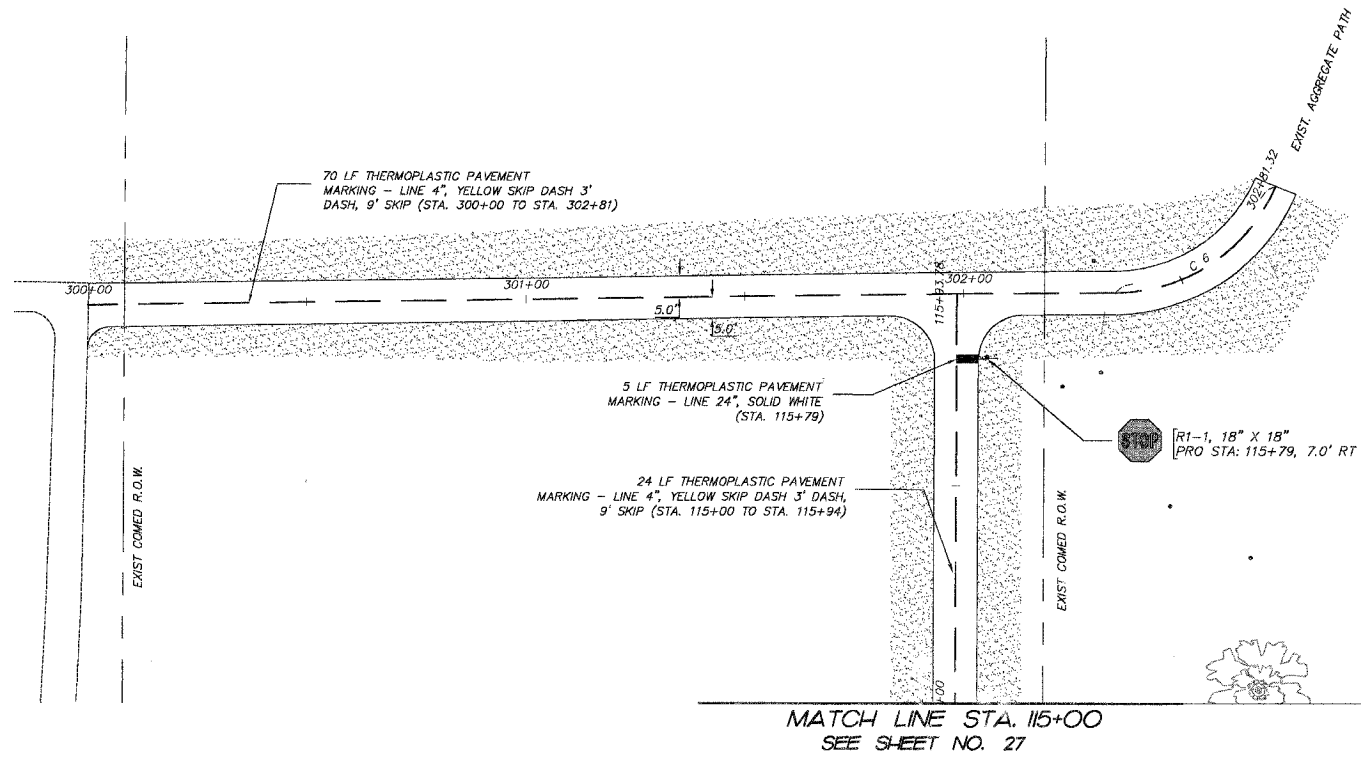
ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF MUNDELEIN
 CMAQ BIKE PATH
 SIGNING, STRIPING, AND
 RESTORATION PLAN
 STA. 105+00 TO STA. 115+00

SCALE: 1" = 20'
 DATE 11-15-06
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PLOT FILE: STANDARD
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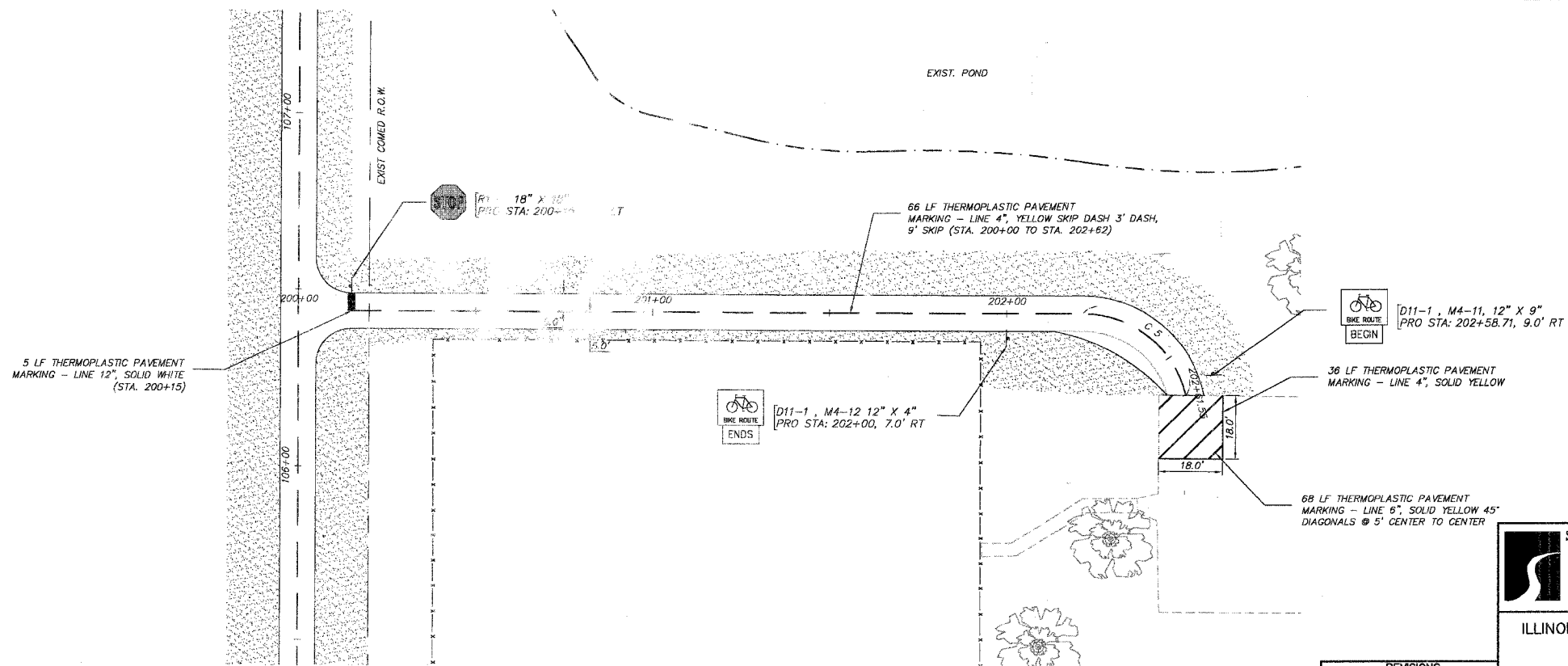
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	28
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
CONTRACT NO. 83890				



- NOTES:**
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 - EXISTING SIGNS TO REMAIN SHALL BE PRESERVED.
 - SEEDING, CLASS 2 SHALL BE USED WITHIN THE RESTORATION LIMITS FOR THE OFF-STREET BIKE PATH AREA.

LEGEND

	INDICATES PROP. TOPSOIL FURNISH AND PLACE, 6" AND SODDING
	INDICATES PROP. TOPSOIL FURNISH AND PLACE, 6" AND SEEDING, CLASS 2



D11-1, M4-11, 12" X 9"
PRO STA: 202+58.71, 9.0' RT
BEGIN

D11-1, M4-12, 12" X 4"
PRO STA: 202+00, 7.0' RT
ENDS

36 LF THERMOPLASTIC PAVEMENT MARKING - LINE 4", SOLID YELLOW

68 LF THERMOPLASTIC PAVEMENT MARKING - LINE 6", SOLID YELLOW 45" DIAGONALS @ 5' CENTER TO CENTER

REVISIONS

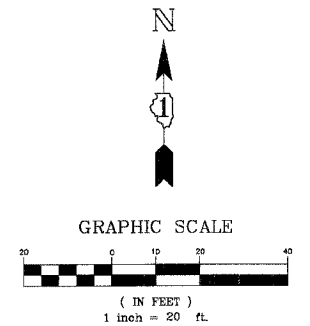
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MCHENRY HUNTLEY YORKVILLE
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF MUNDELEIN
CMAQ/SEAVEY BIKE PATH
SIGNING, STRIPING, AND
RESTORATION PLAN
STA. 300+00 TO STA. 302+81.32 &
STA. 200+00 TO STA. 202+61.55
SCALE: 1" = 20'
DATE 11-15-06
DRAWN BY CFR
CHECKED BY CFR

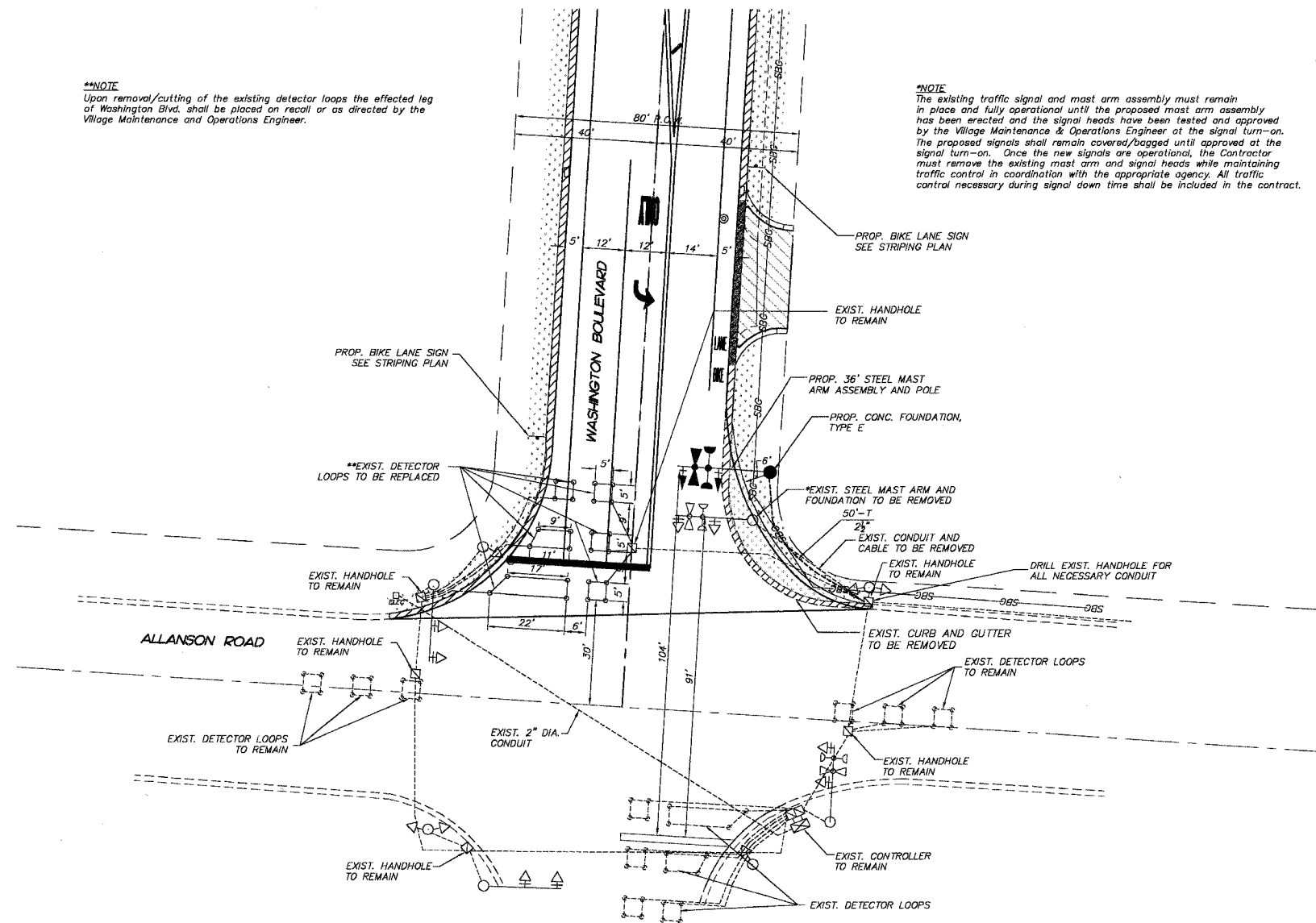
PLOT FILE: STANDARD
NEW: 28
COMP. FILE: 050460-805.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	29
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
CONTRACT NO. 83890				



****NOTE**
Upon removal/cutting of the existing detector loops the effected leg of Washington Blvd. shall be placed on recall or as directed by the Village Maintenance and Operations Engineer.

***NOTE**
The existing traffic signal and mast arm assembly must remain in place and fully operational until the proposed mast arm assembly has been erected and the signal heads have been tested and approved by the Village Maintenance & Operations Engineer at the signal turn-on. The proposed signals shall remain covered/bagged until approved at the signal turn-on. Once the new signals are operational, the Contractor must remove the existing mast arm and signal heads while maintaining traffic control in coordination with the appropriate agency. All traffic control necessary during signal down time shall be included in the contract.



TRAFFIC SIGNALS LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
COMBINATION MAST ARM ASSEMBLY AND POLE		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSHBUTTON DETECTOR		
DECTOR LOOP		
CAST IRON JUNCTION BOX		
COMMON TRENCH	CT	
UNIT DUCT	UD	
EMERGENCY VEHICLE SYSTEM DETECTOR		
CONFIRMATION BEACON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
VIDEO VEHICLE DETECTOR UNIT		
TELEPHONE CONNECTION		
ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		
CONDUIT SPLICE		
WOOD POLE		
RACEWAY FOR MAGNETIC DETECTOR. TYPE I OR TYPE II		"E"
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RAILROAD CONTROL CABINET		
UNINTERRUPTABLE POWER SUPPLY	UPS	

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:
STOP BARS ARE NOT TO BE PLACED PRIOR TO THE PROPOSED TRAFFIC SIGNALS BEING OPERATIONAL, THEY MUST BE IN PLACE, HOWEVER, AT THE TIME OF TURN-ON.

EXISTING TRAFFIC SIGNAL EQUIPMENT
The locations and sizes of all existing traffic signals, loop detectors, pavement striping, etc. shall be verified prior to construction.

The following items shall be removed by the Contractor and disposed of at their expense.

- 928 FOOT ELECTRIC CABLE IN CONDUIT
- 1 EACH MAST ARM ASSEMBLY & POLE
- 2 EACH SIGNAL HEAD, 1-FACE
- 1 EACH EMERGENCY VEHICLE DETECTION & CONFIRM. BEACON

EXISTING SIGN PANEL ASSEMBLY
All existing street name signs shall be re-used. The Contractor shall make all efforts to preserve the signs for future use. Any sign damaged beyond use, as determined by the Engineer, shall be replaced by the Contractor at his expense.

RESTORATION OF WORK AREA RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

REVISIONS	
NAME	DATE
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SMITH ENGINEERING CONSULTANTS, INC.
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS
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MCKENNA HUNTLEY YORKVILLE
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF MUNDELEIN
CMAQ/SEAVEY BIKE PATH
TRAFFIC SIGNAL PLAN
SCALE: 1"=20'
DATE 11-15-08
DRAWN BY JSt
CHECKED BY GFR

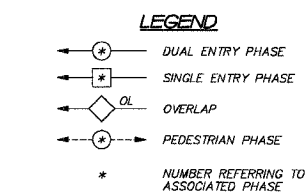
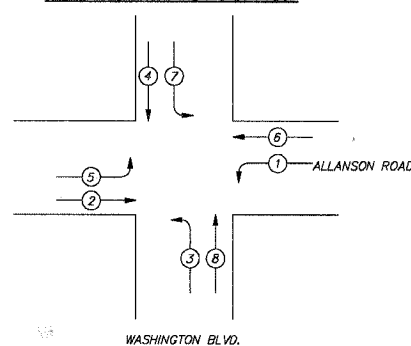
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	30
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
CONTRACT NO. 83890				

CABLE PLAN

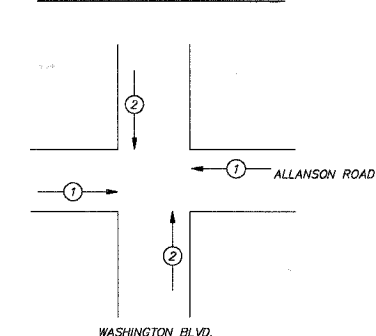
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITIES
REMOVE EXISTING CONCRETE FOUNDATIONS	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	928
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
DETECTOR LOOP REPLACEMENT	FOOT	221
CONCRETE FOUNDATION, TYPE E, 30-INCH DIAMETER	FOOT	15
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE	EACH	2
LIGHT DETECTOR	EACH	2
RELOCATE SIGN PANEL ASSEMBLY, TYPE A	EACH	1
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	50
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7/C	FOOT	300
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5/C	FOOT	300
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3/C	FOOT	300
ELECTRIC CABLE IN CONDUIT, NO. 20 3/C TWISTED, SHIELDED	FOOT	300
ELECTRIC CABLE IN CONDUIT, GROUNDING NO. 6 1/C	FOOT	300
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
GROUND EXISTING HANDHOLE FRAME AND COVER	EACH	5

EXISTING CONTROLLER SEQUENCE



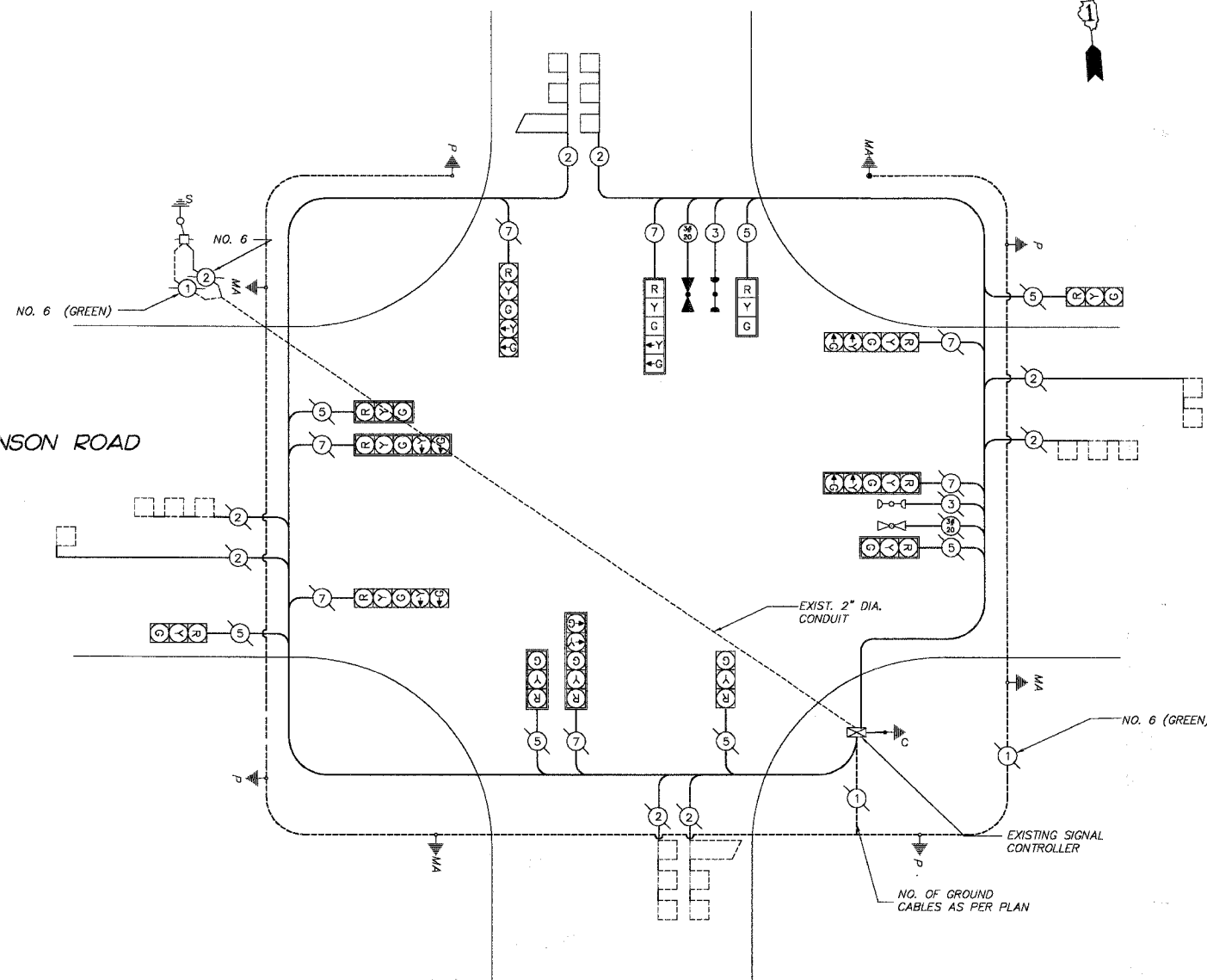
EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	1	2
MOVEMENT	→	↑

ALLANSON ROAD

WASHINGTON BLVD.



CABLE PLAN LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
(R)	R	(R)	R
(W)	W	(Y)	Y
(P)	P	(G)	G
(C)	C	(H)	H
(MA)	MA	(P)	P
(S)	S	(S)	S
(I)	I	(1)	1
(2)	2	(2A)	2A

12" (300mm) TRAFFIC SIGNAL SECTION
 12" (300mm) PEDESTRIAN SIGNAL SECTION
 12" (300mm) PEDESTRIAN SIGNAL SECTION
 CONTROLLER CABINET
 SERVICE INSTALLATION
 EMERGENCY VEHICLE LIGHT DETECTOR
 CONFIRMATION BEACON
 PUSHBUTTON DETECTOR
 VEHICLE DETECTOR, INDUCTION LOOP
 DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.

SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
 GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
 GROUND ROD AT POST (P), OR MAST ARM POLE (MA)
 GROUND ROD AT ELECTRIC SERVICE INSTALLATION
 GROUND CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
 FIBER OPTIC CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	14	135	17	0.50	827
(YELLOW)	14	135	25	0.25	417.5
(GREEN)	14	135	15	0.25	412.5
ARROW (YELLOW)	7	135	12	0.10	82.2
(GREEN)	7	135	12	0.10	82.2
CONTROLLER	1	100	100	1.00	100.0
TOTAL =					1,921.4

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2=
E - MAST ARM POLE		SIGNAL POST	2 (1.0)	(8m+L-0.6m)=	
30" (750mm)	15 (4.6)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
36" (900mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

ENERGY COST - BILLED TO : VILLAGE OF MUNDELEIN
 (ADDRESS) 440 E. HAWLEY STREET
 MUNDELEIN, IL 60060

ENERGY SUPPLY - CONTACT : MS. LUCY ANDERBERG
 PHONE: (847) 816-5254
 COMPANY: COM - ED

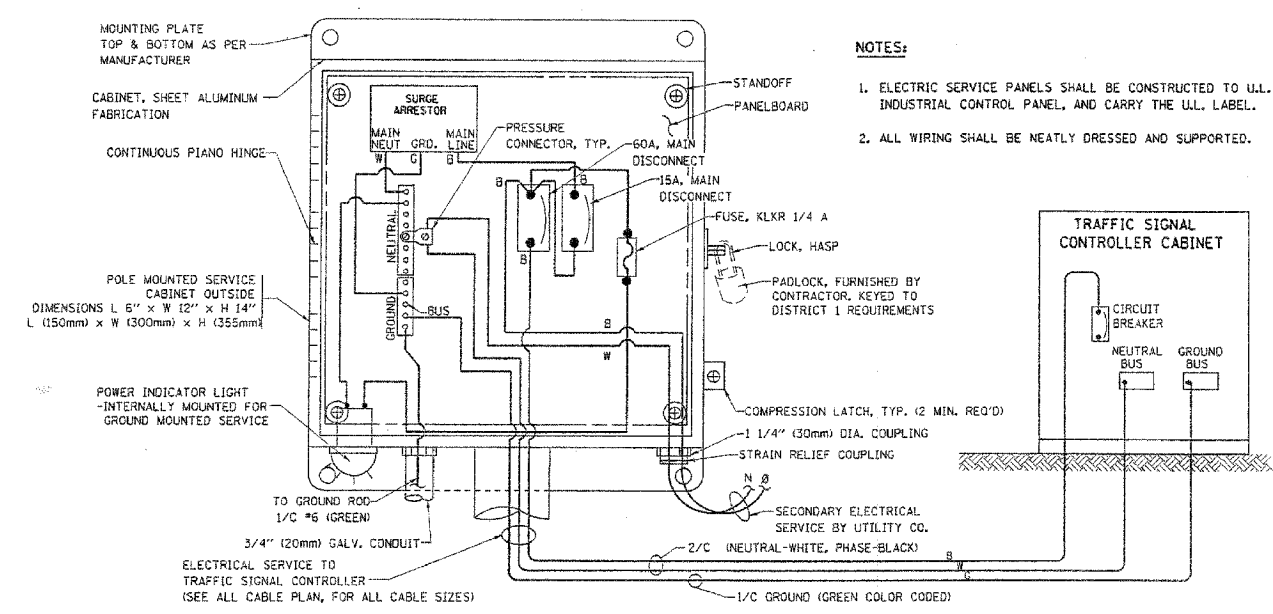
SMITH ENGINEERING CONSULTANTS, INC.
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 McHENRY HUNTLEY YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

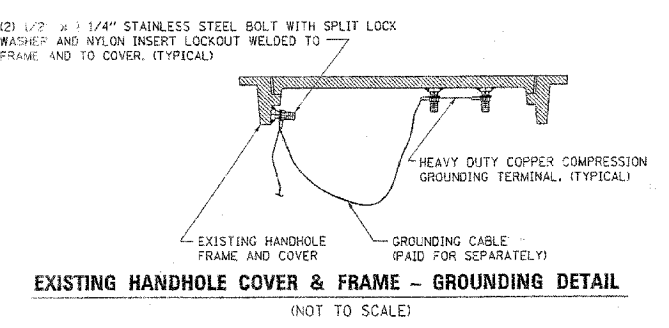
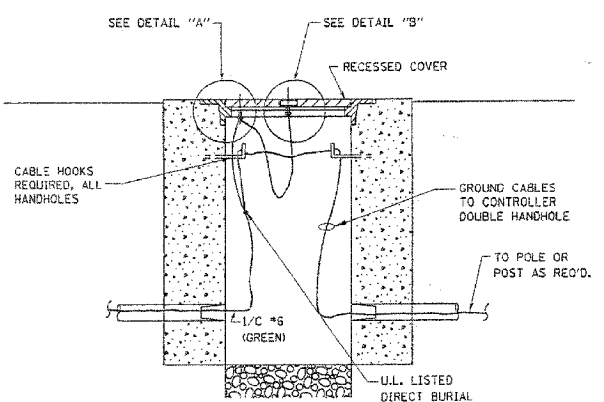
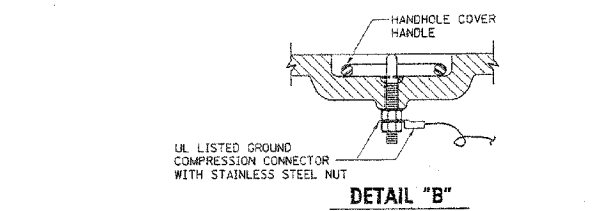
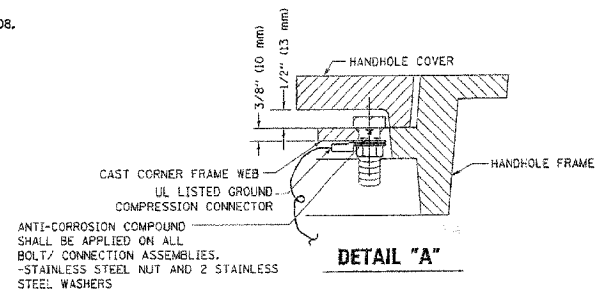
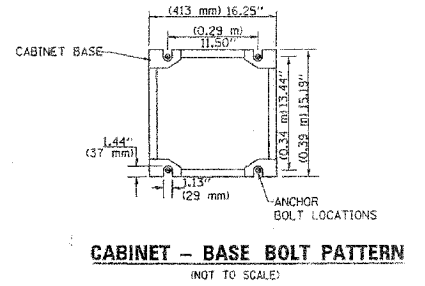
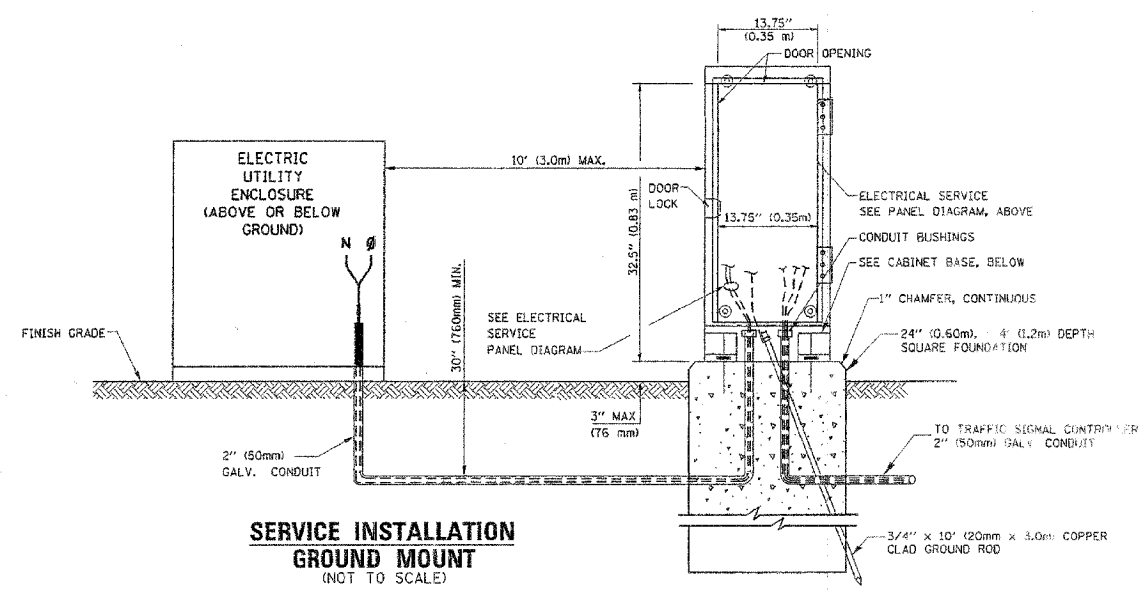
VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 CABLE PLAN AND
 PHASE DESIGNATION DIAGRAM

SCALE: "NTS" DRAWN BY JSt
 DATE 11-15-06 CHECKED BY CFR

PLOT FILE: STANDARD
 ME: W. JO. FILE: 052406-605.dwg



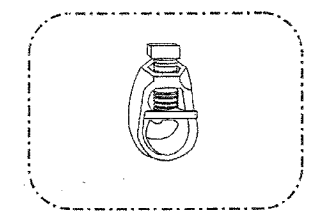
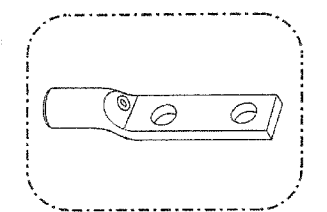
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)



NOTES:

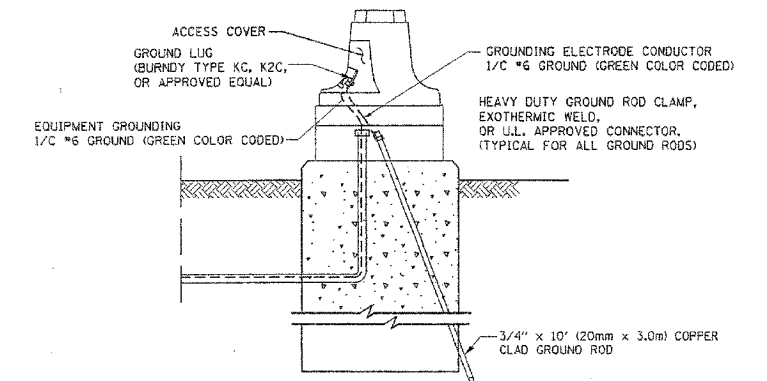
GROUNDING SYSTEM

- 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) 705-4133.
- 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.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, U.L. 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' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



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 WWW.SMITHENGINEERING.COM E-MAIL: SEC@SMITHENGINEERING.COM
 • MCKENRY • HUNTLEY • YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

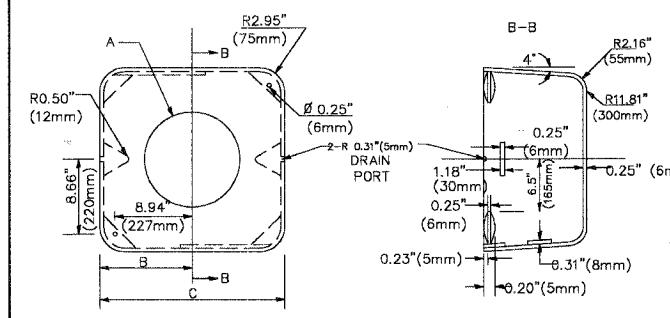
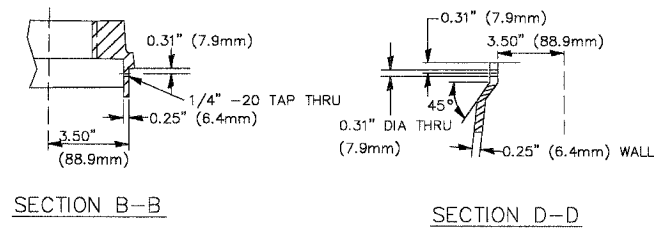
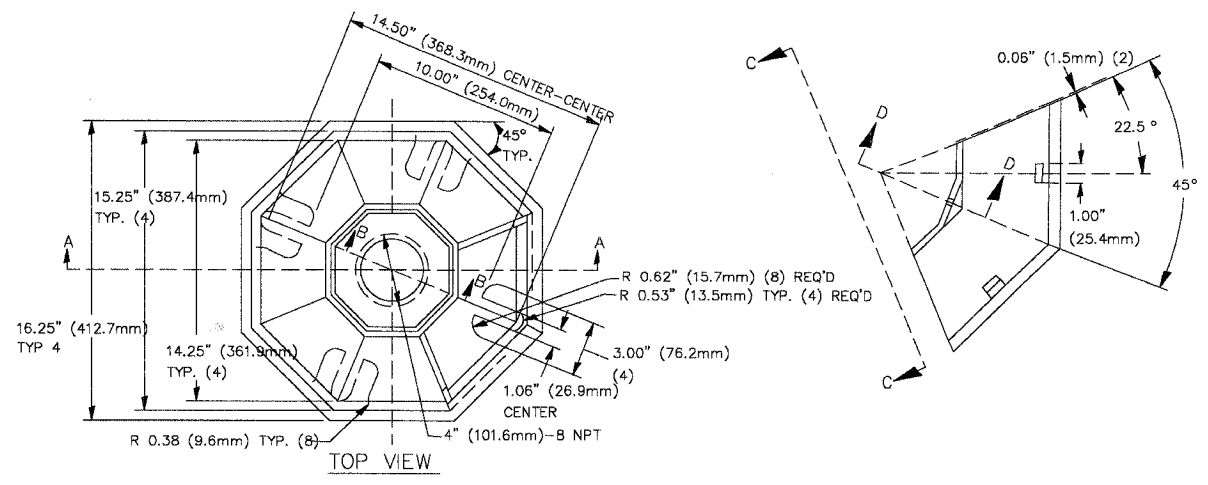
VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH

DISTRICT 1 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

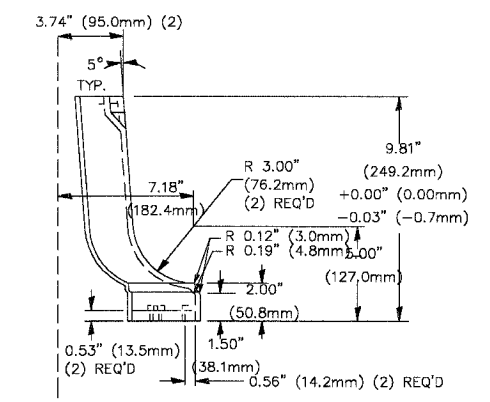
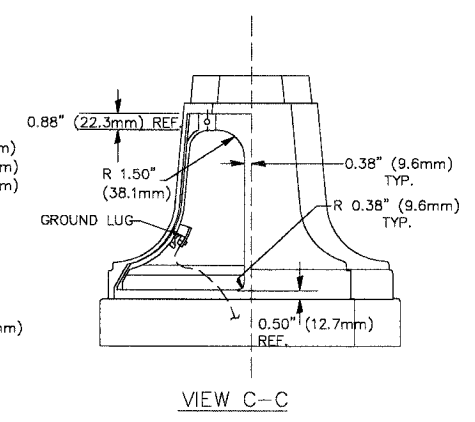
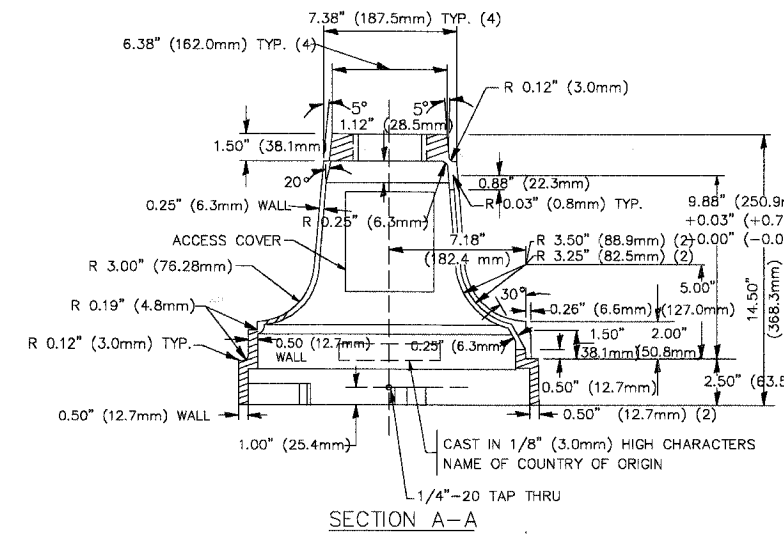
SCALE: "NTS" DRAWN BY: CFR
 DATE: 11-15-06 CHECKED BY: GFR

REVISIONS	
NO.	DATE
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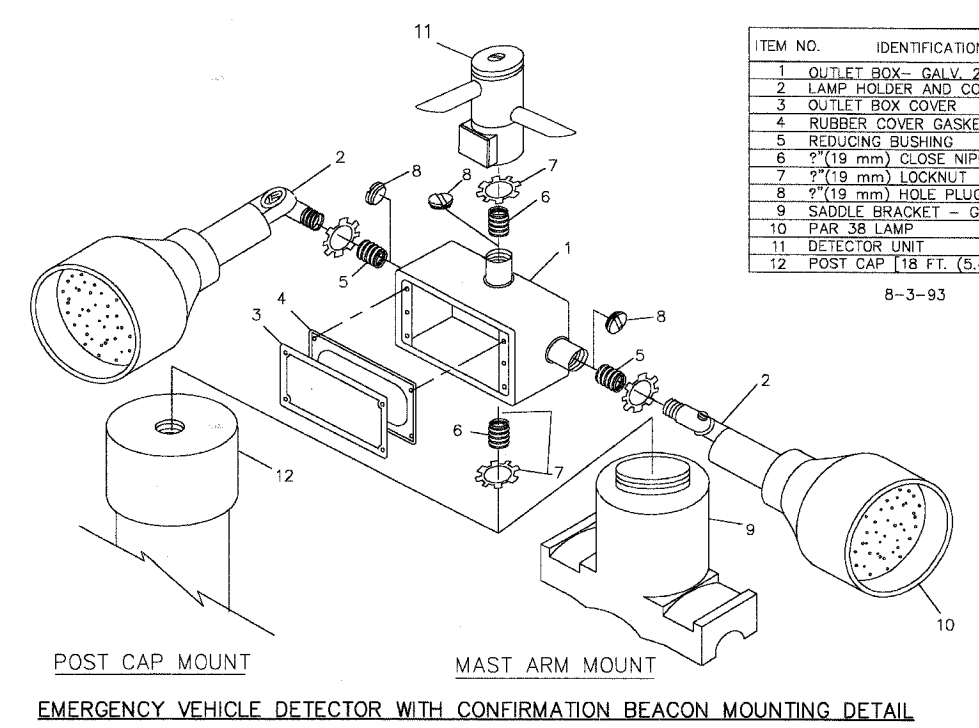
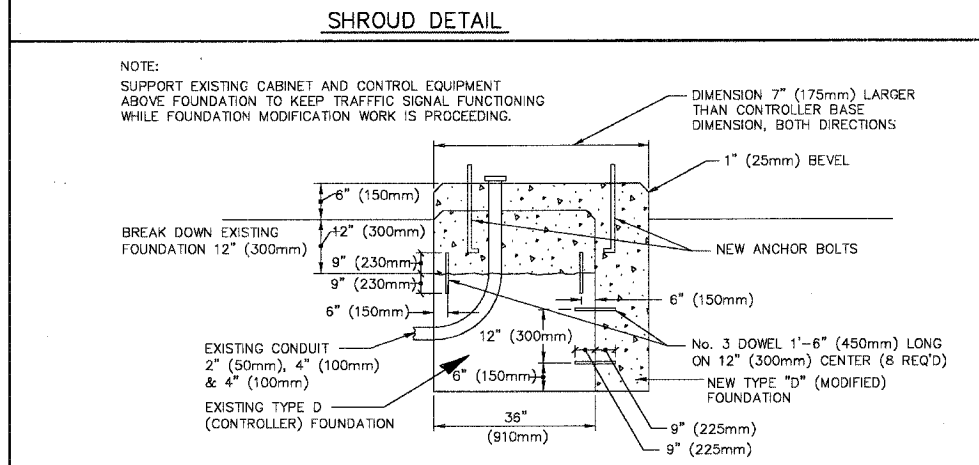
PLOT FILE: STANDARD
 VIEW: JT
 COMP: FILE: 020400-03.dwg



TYPE	A	B	C	HEIGHT	WEIGHT
I	Ø 10.125\" (257mm)	9.5\" (241mm)	19\" (483mm)	12\" (300mm)	24kg
II	Ø 11.125\" (283mm)	10.75\" (273mm)	21.5\" (546mm)	12\" (300mm)	26kg

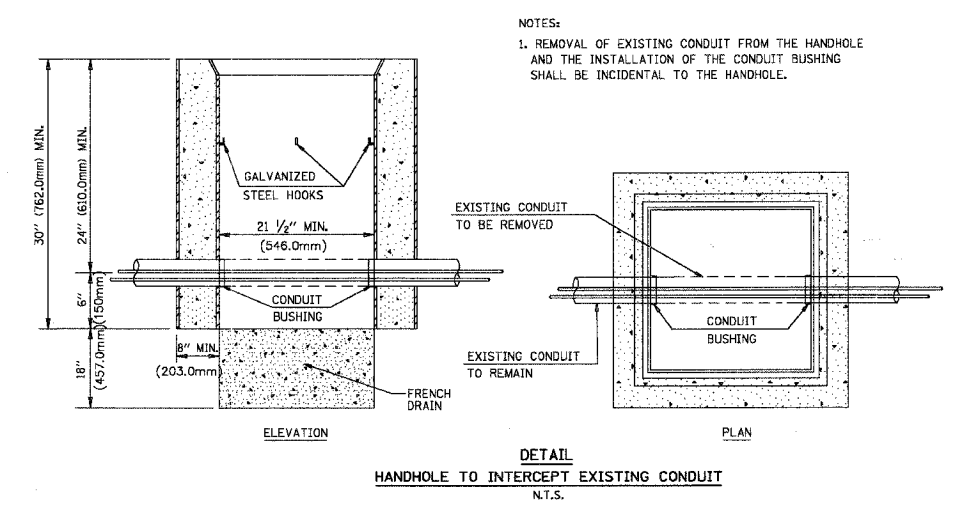
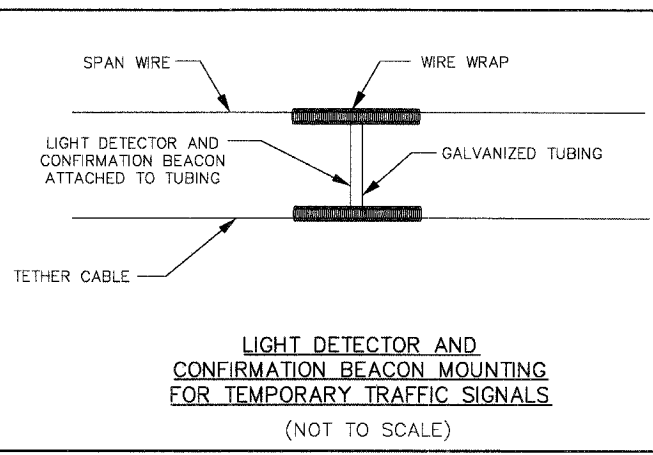


TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	1/2\" (19 mm) CLOSE NIPPLE
7	1/2\" (19 mm) LOCKNUT
8	1/2\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

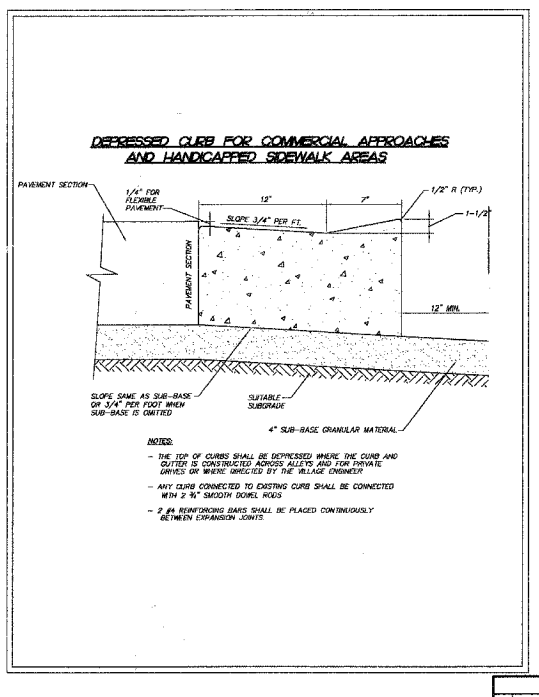
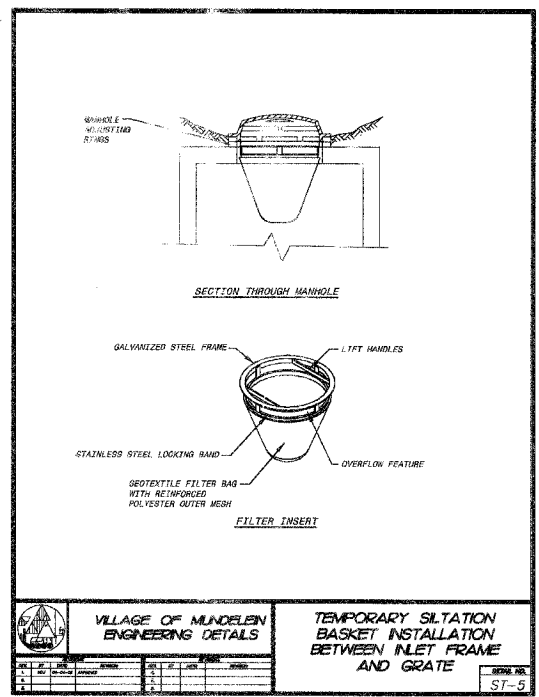
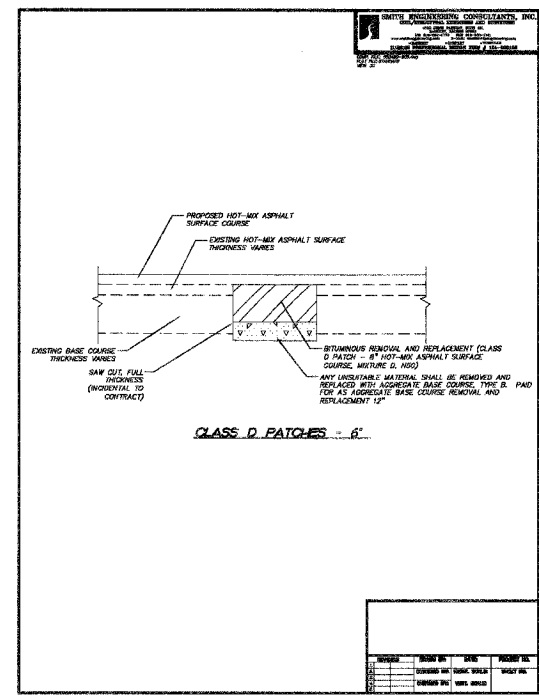
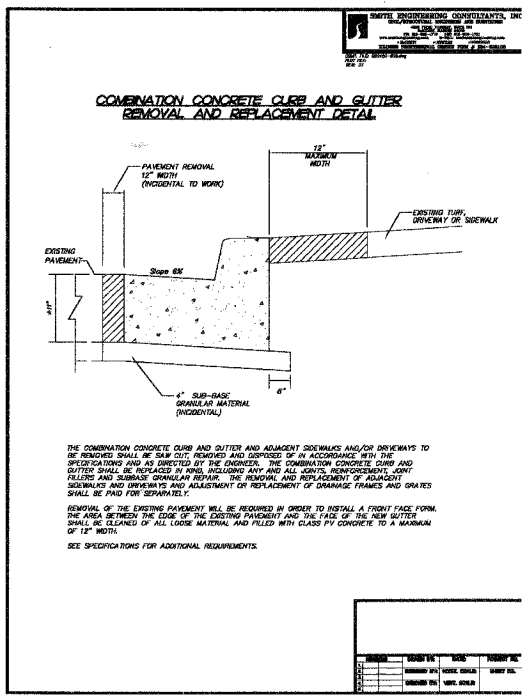
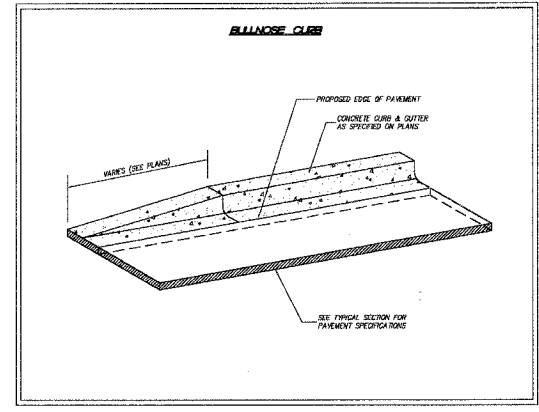
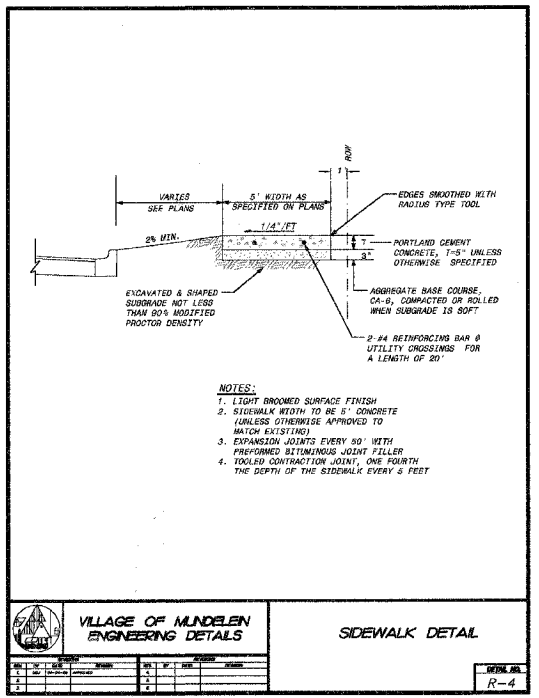
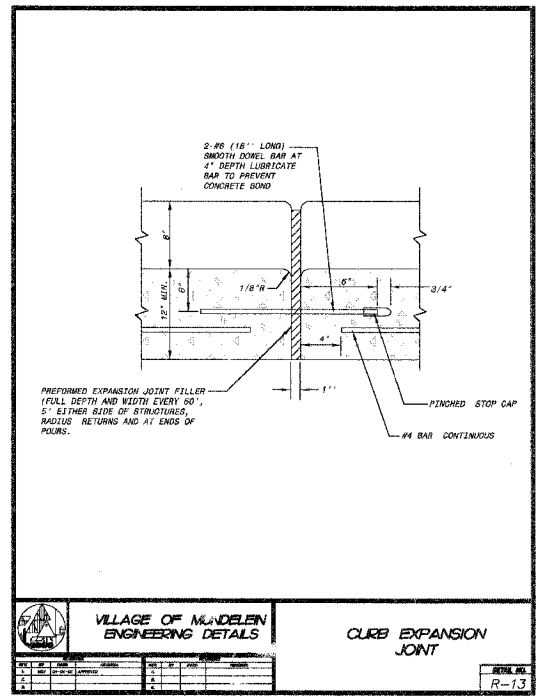
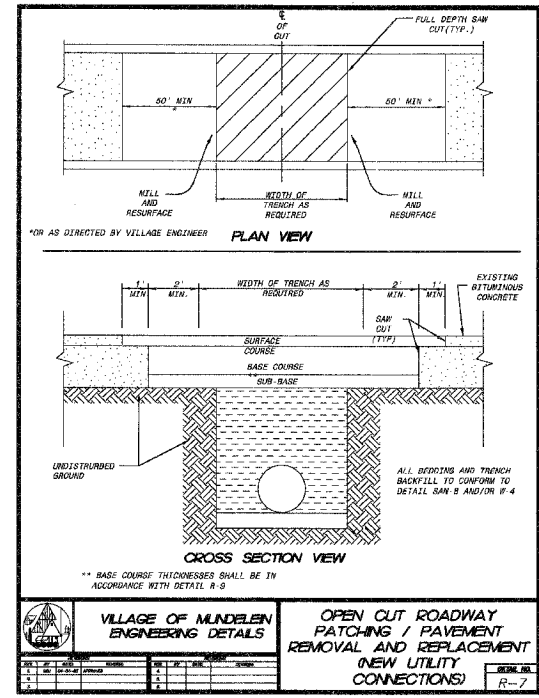
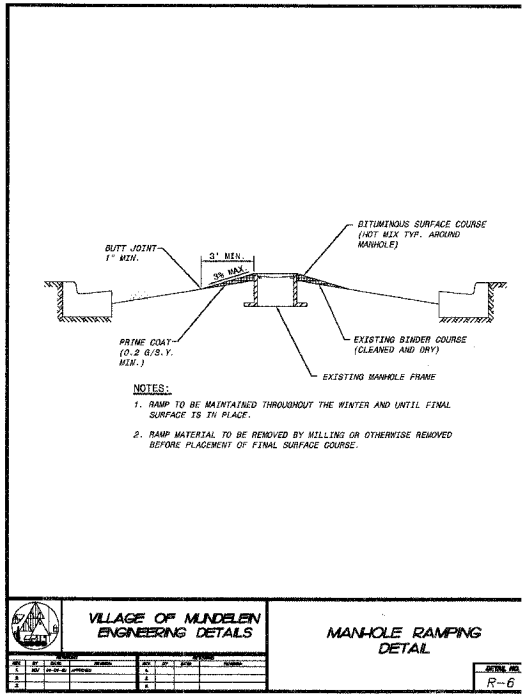
NOTES:
 ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
 ITEM #2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
 WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/8\" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS
 SCALE: VERT. NONE
 HORIZ. NONE
 DATE 1-01-02
 DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 4 OF 4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	33
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
CONTRACT NO. 83890				



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 www.smithengineering.com E-MAIL: sec@smithengineering.com
 *MCGLENNERY *DORRVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 STANDARD CONSTRUCTION DETAILS

SCALE: "NTS" DRAWN BY: CFR
 DATE: 11-15-06 CHECKED BY: GFR

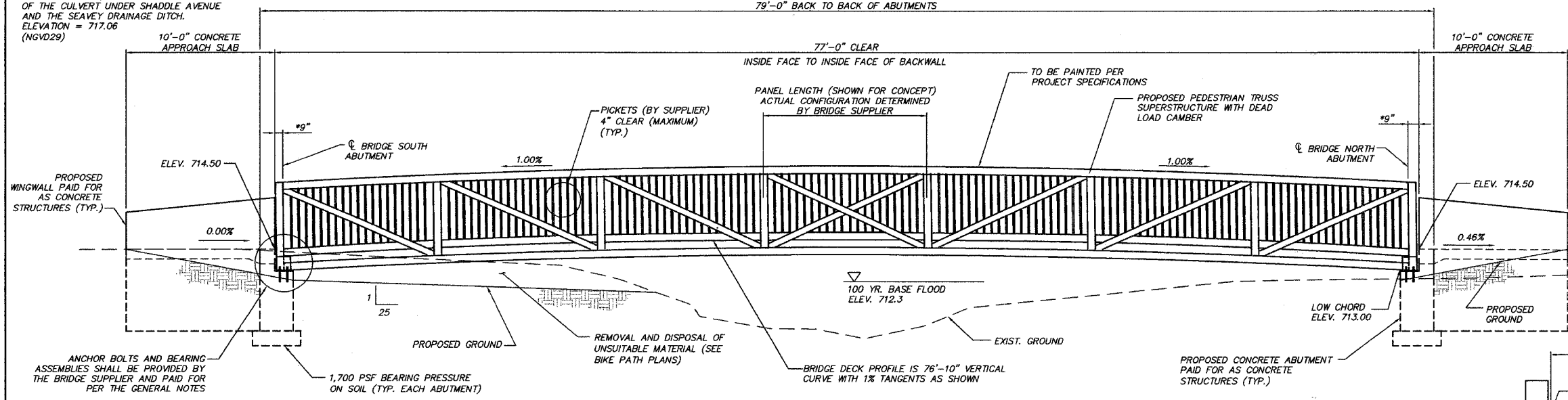
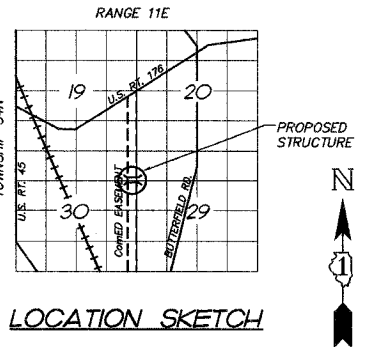
REVISIONS	
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PLOT FILE: STANDARD
 VIEW: 33
 COMP. FILE: 050460-050470

BENCHMARK:

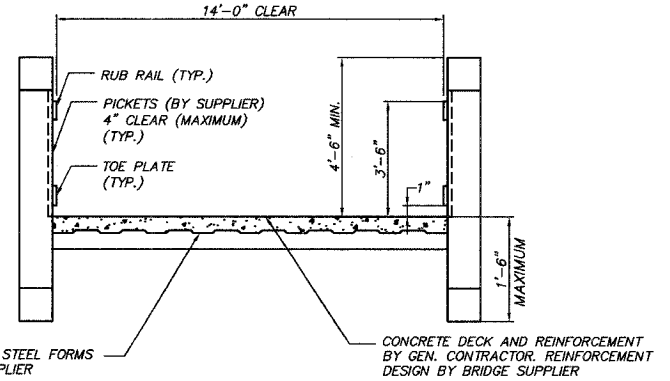
SET CHISELED SQUARE ON THE EAST HEADWALL OF THE CULVERT UNDER SHADDE AVENUE AND THE SEAVEY DRAINAGE DITCH. ELEVATION = 717.06 (NGVD29)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	34
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
CONTRACT NO. 83890				

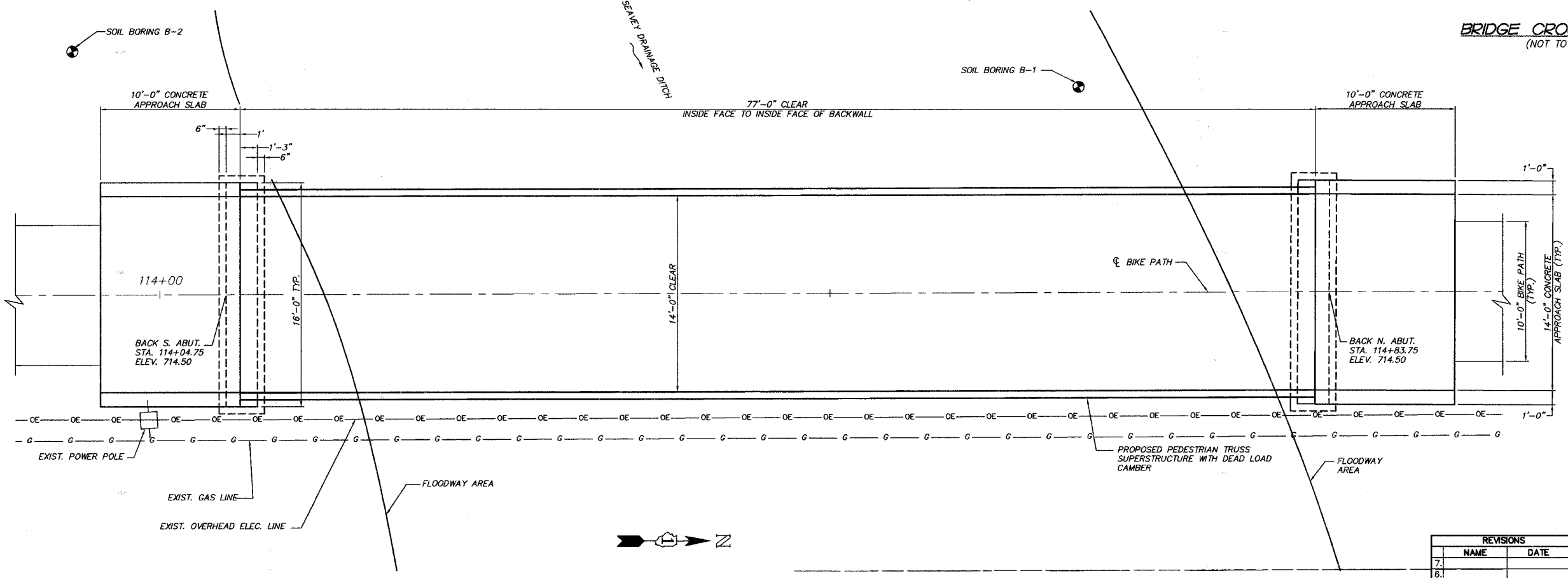


ELEVATION

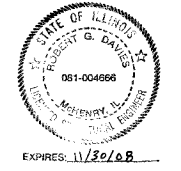
* BRIDGE SUPPLIER TO VERIFY DIMENSION(S)



BRIDGE CROSS SECTION
(NOT TO SCALE)



PLAN



I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE SUBSTRUCTURE 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.

Robert G. Davis
STRUCTURAL ENGINEER

SMITH ENGINEERING CONSULTANTS, INC.
CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS
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#MORRIS #MUNDELEIN #YORKVILLE
ILLINOIS PROFESSIONAL DESIGN FIRM # 104-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

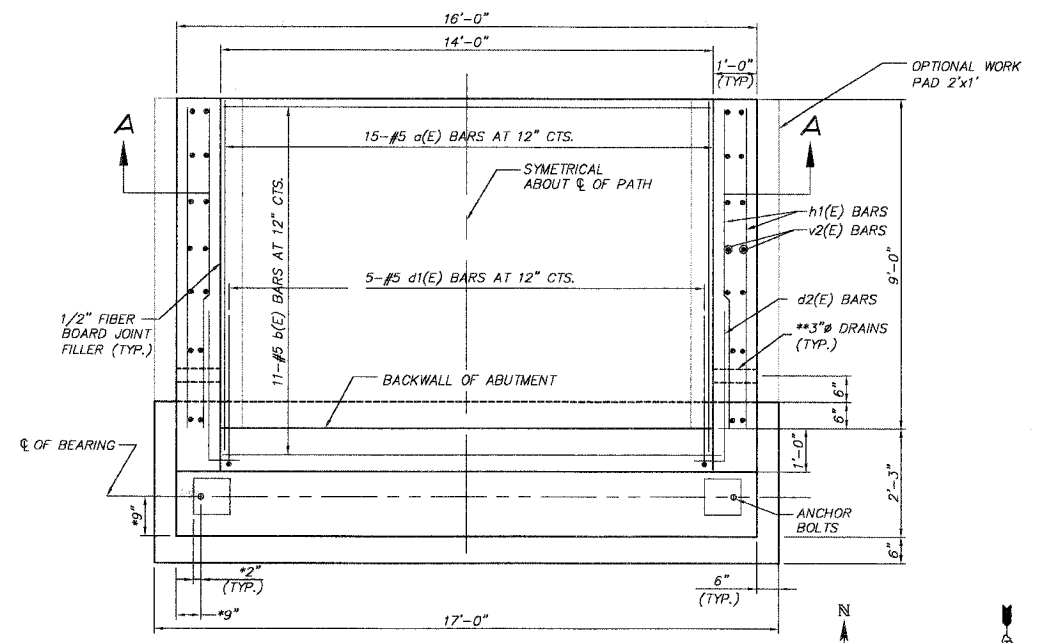
VILLAGE OF MUNDELEIN
CMAQ/SEAVEY BIKE PATH
PEDESTRIAN BRIDGE
PLAN AND ELEVATION

SCALE: "NTS" DRAWN BY CFR
DATE 11-15-06 CHECKED BY RGD

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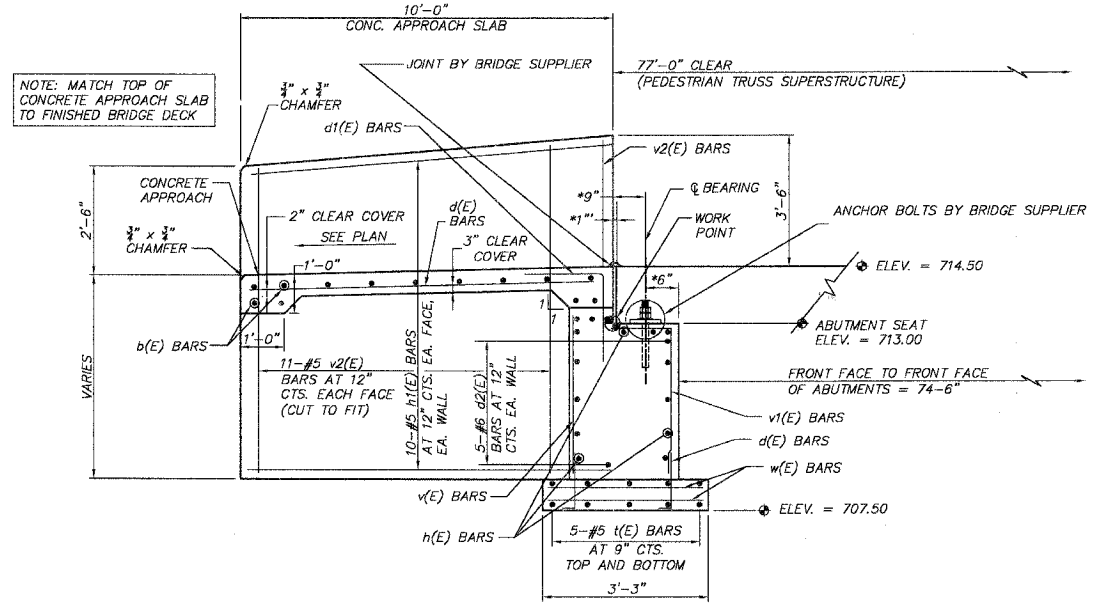
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COMP. FILE: C80460-632.dwg

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	35
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS HIGHWAY PROJECT		
CONTRACT NO. 83890				



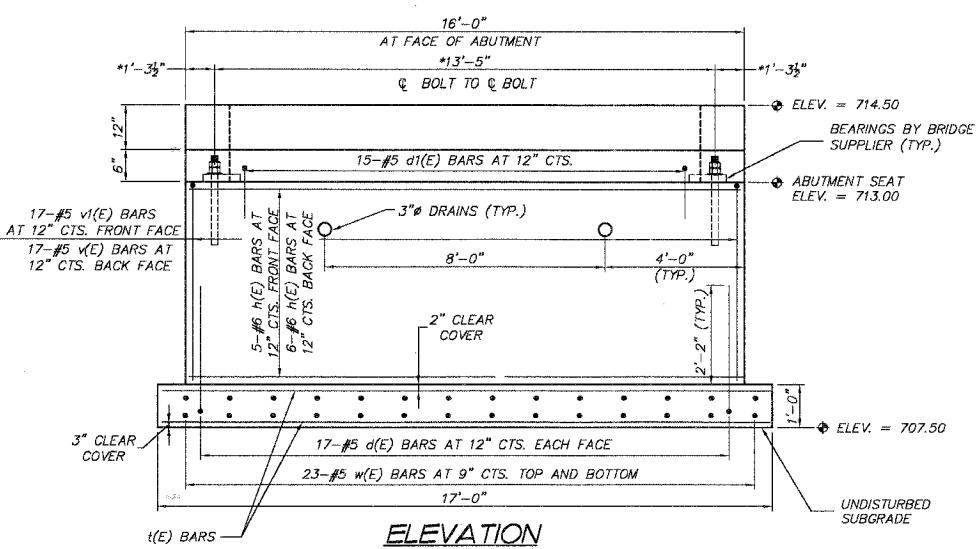
PLAN

* = BRIDGE SUPPLIER TO VERIFY DIMENSION(S)
 ** = INCLUDED IN THE COST OF "CONCRETE STRUCTURES" NORTH ABUT. SOUTH ABUT.



SECTION THROUGH ABUTMENT (REINFORCEMENT)

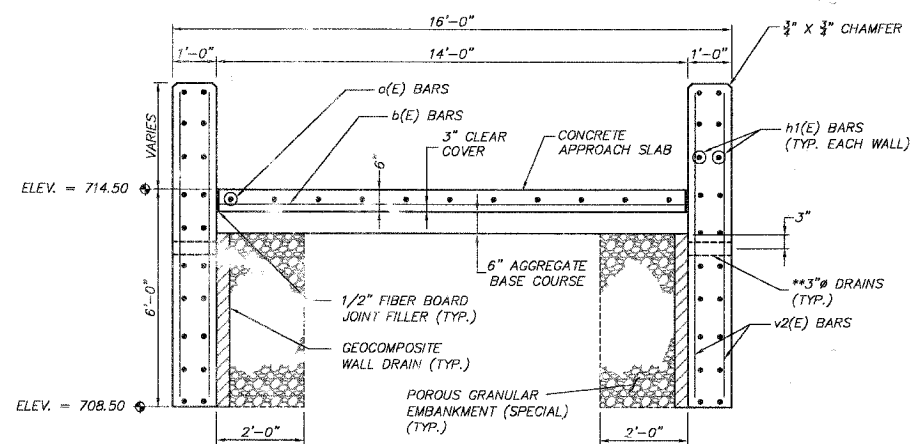
* = BRIDGE SUPPLIER TO VERIFY DIMENSION(S)
 MIN. LAP LENGTH FOR #6 BAR = 2'-7" (BASIC LAP), 3'-7" (TOP BAR LAP)



ELEVATION

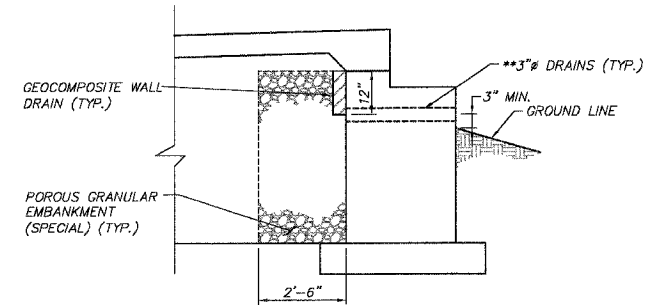
(LOOKING NORTH @ NORTH ABUTMENT
 LOOKING SOUTH @ SOUTH ABUTMENT)

* = BRIDGE SUPPLIER TO VERIFY DIMENSION(S)



SECTION A-A

** = INCLUDED IN THE COST OF "CONCRETE STRUCTURES"



SECTION THROUGH ABUTMENT (DRAINAGE SYSTEM)

** = INCLUDED IN THE COST OF "CONCRETE STRUCTURES"
 BACKFILL REMAINDER OF STRUCTURE EXCAVATION AND OVER EXCAVATION WITH SAME MATERIAL FOR PATH EMBANKMENT

TOTAL BILL OF MATERIAL

Bar	No.	Size	Length	WT. (LB)
a (E)	30	#5	9'-8"	302
b (E)	22	#5	13'-8"	314
d (E)	68	#5	3'-10"	272
d1 (E)	30	#5	5'-8"	177
d2 (E)	20	#6	5'-2"	155
h (E)	28	#6	15'-8"	659
h1 (E)	80	#5	9'-8"	807
l (E)	20	#5	16'-8"	348
v (E)	34	#5	4'-2"	148
v1 (E)	34	#5	5'-8"	201
v2 (E)	88	#5	8'-10"	810
w (E)	92	#5	2'-11"	280
Reinforcement Bars,				Pounds, 3,860
Epoxy Coated				
Structure Excavation				Cu. Yds. 79
Concrete Structures				Cu. Yds. 18
Pedestrian Truss				Sq. Ft. 1,078
Superstructure				
Geocomposite Well Drain				Sq. Yd. 21
Porous Granular Embankment (Special)				Cu. Yds. 25

DESIGN SPECIFICATIONS

SEE PROJECT SPECIFICATIONS
 AASHTO GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES - 1997

LOADING

DEAD LOAD = PER DESIGN BY BRIDGE SUPPLIER (END REACTION OF 26,000 LB ASSUMED FOR SUBSTRUCTURE DESIGN)
 WIND LOAD = 35 PSF
 PEDESTRIAN LIVE LOAD = 85 PSF
 VEHICLE LOAD = H-5 TRUCK (10,000 LB DESIGN VEHICLE)

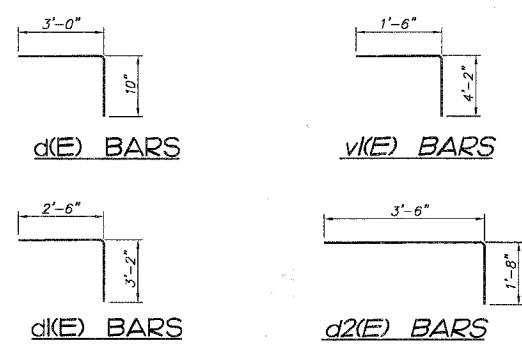
DESIGN STRESSES

SUBSTRUCTURE:
 f'c = 3,500 PSI (CLASS SI)
 fy = 60,000 PSI
 SUPERSTRUCTURE:
 PER DESIGN OF THE BRIDGE SUPPLIER

GENERAL NOTES

Bridge Supplier = Pedestrian Truss Superstructure Supplier
 The term "Standard Specification" refers to the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, adopted January 1, 2007.
 Contractor shall notify Owner at least 48 hours prior to placing concrete.
 Reinforcing bars shall conform to the requirements of AASHTO M31 or M32 grade 60.
 Minimum 14-day concrete cylinder strength shall be: 3500 psi (Class SI) with air entrained content between 5% and 7%.
 Reinforcement bars designated (E) shall be epoxy coated.
 All construction joints shall be bonded.
 3" Drains shall be installed 3" (min.) above the ground line.
 Contractor shall sample each truckload of concrete as follows:
 - mold two (2) compressive strength cylinders in accord with Article 1020.09, cure on site.
 - Owner may have cylinders tested at Owners expense or may instruct Contractor to discard cylinders at time of project close out.

Concrete Approach Slab: Concrete materials and concrete construction used for the approaches shall comply with the Standard Specification Section 423 and for class "SI" concrete outlined in Section 503. Concrete approach slab shall be included in the unit bid price for PEDESTRIAN TRUSS SUPERSTRUCTURE.
 Concrete surface texture on the deck and approach slabs shall conform to the Standard Specification Article 423.06.
 Anchor bolts and bearing assemblies shall be designed and furnished by the Pedestrian Truss Superstructure Supplier and shall be included in the unit bid price for PEDESTRIAN TRUSS SUPERSTRUCTURE.
 All expansion joint plates, attached bars, expansion bearing assemblies, fixed bearing assemblies, shims and fasteners necessary to install the above items shall be included in the unit bid price for PEDESTRIAN TRUSS SUPERSTRUCTURE.
 The organic zinc rich primer/epoxy/urethane paint system shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with exception that the masked off connection surface, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat shall be reddish-brown Munsell No. 2.5 YR 4. See Special Provision for "Cleaning and Painting New Metal Structures".
 Fabrication is subject to inspections according to Section 505.05.

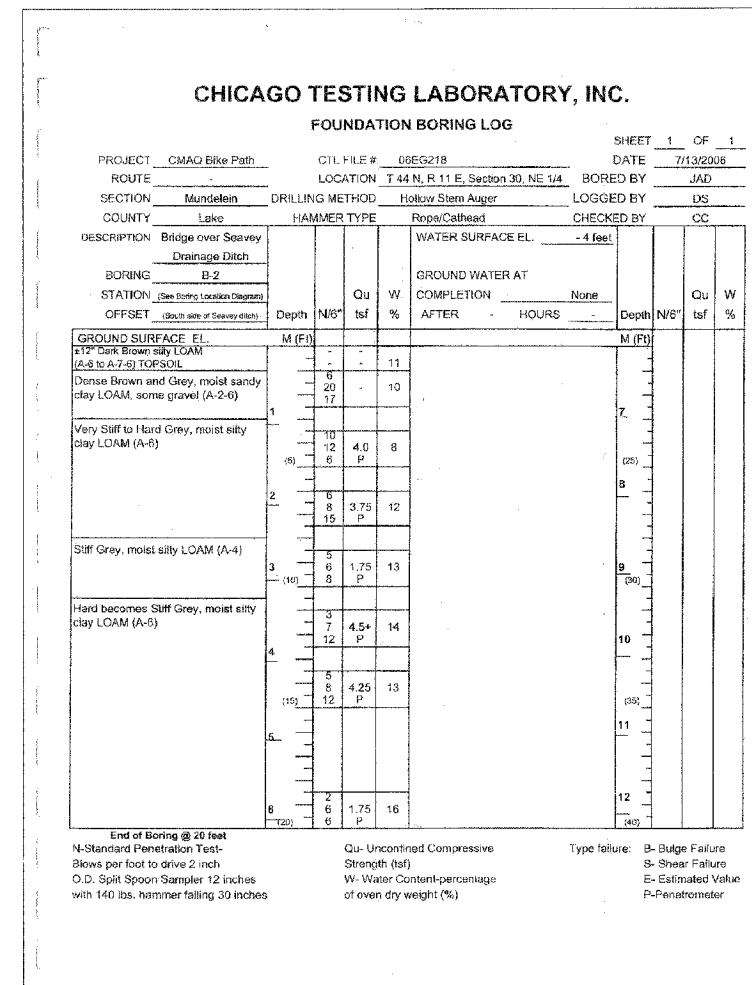
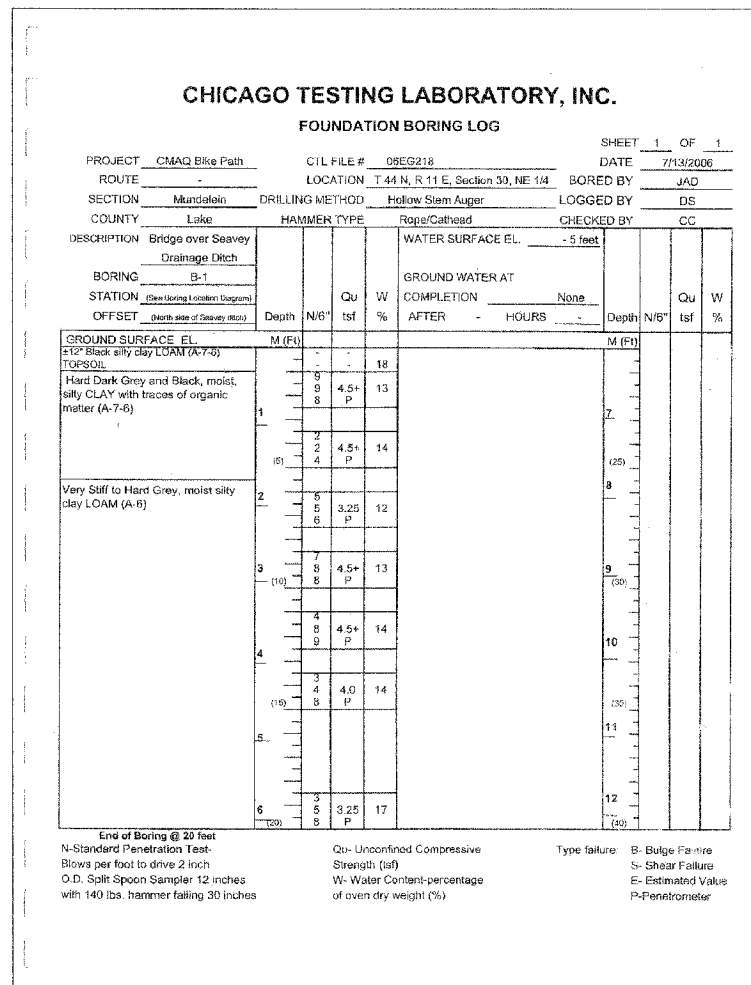


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 * MCHENRY * BUNDEY * YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 BRIDGE FOUNDATION SECTIONS, NOTES,
 AND DETAILS
 SCALE: "NTS"
 DATE 11-15-06
 DRAWN BY GFR
 CHECKED BY GFR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	04-00075-00-BT	LAKE	42	36
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHWAY PROJECT	
CONTRACT NO. 83890				



PLOT FILE: STANDARD
 NEW: 36
 COMP. FILE: 0504651-836.dwg

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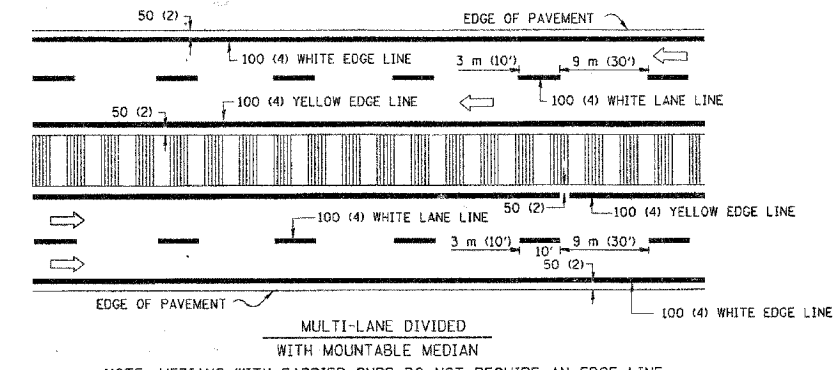
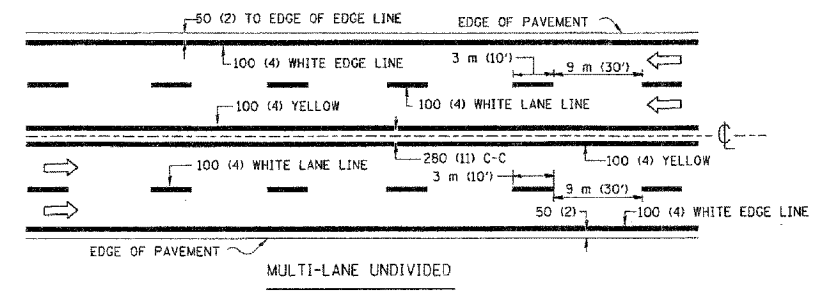
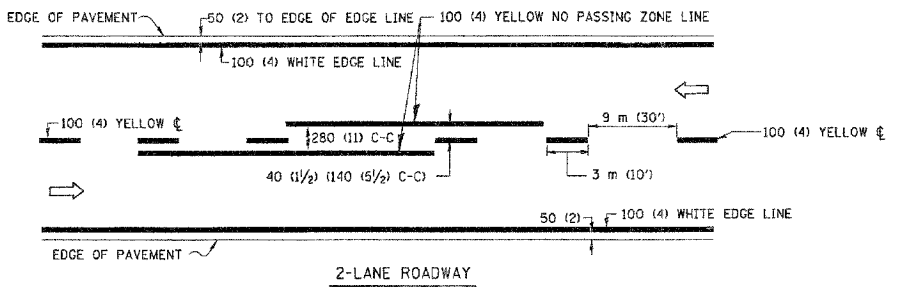
SMITH ENGINEERING CONSULTANTS, INC.
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 MCHENRY HUNTLEY YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 SOIL BORINGS

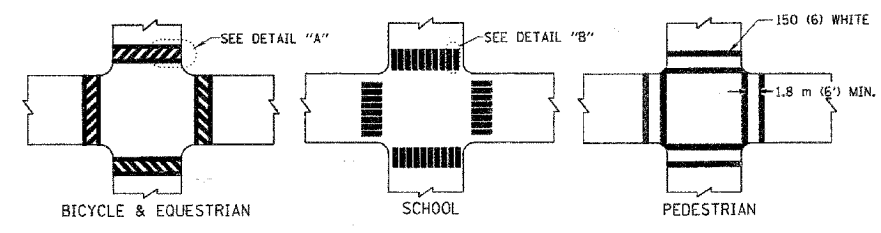
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S.A. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
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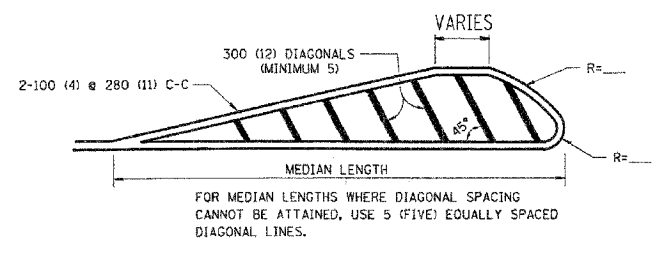
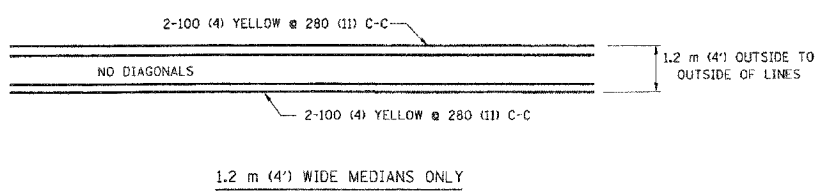
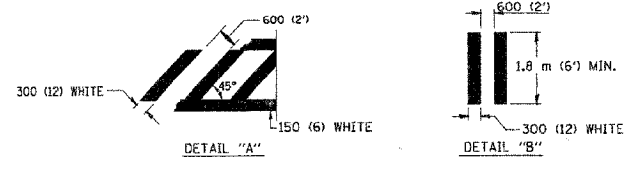


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



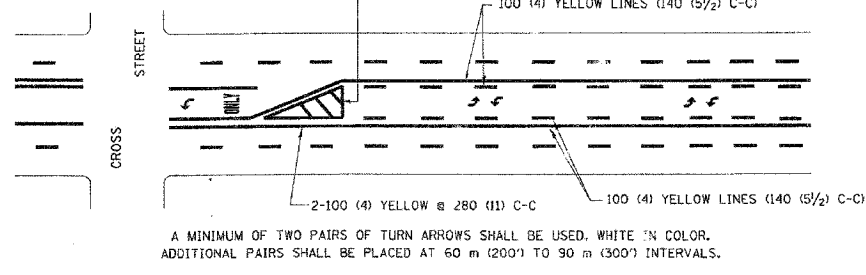
TYPICAL CROSSWALK MARKING



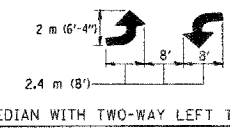
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 1.2 m (4') WIDE

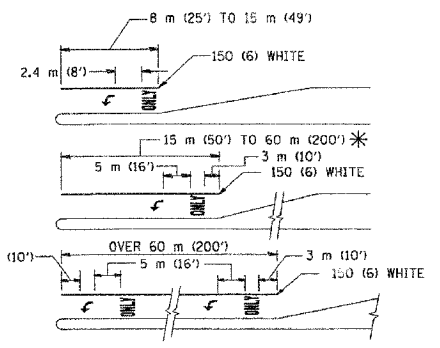


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED. WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

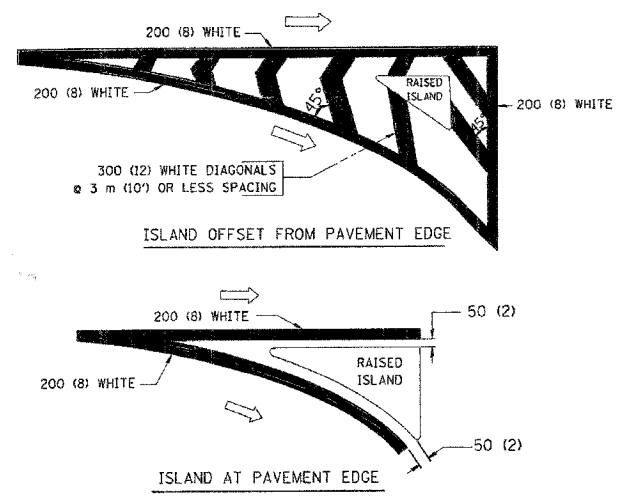


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED.
AREA = 1.5 m² (15.6 SQ. FT.) ONLY AREA = 1.9 m² (20.8 SQ. FT.)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

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

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

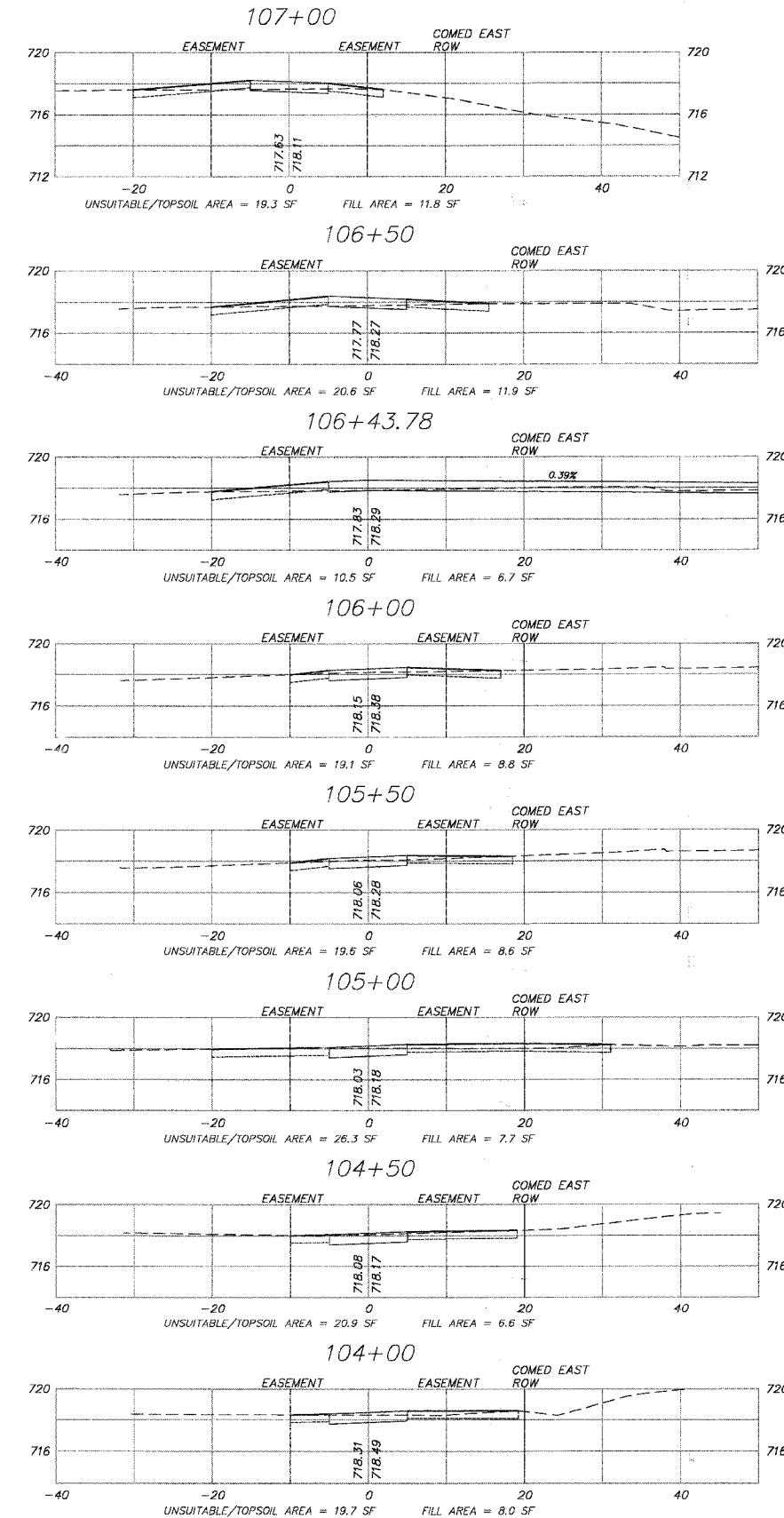
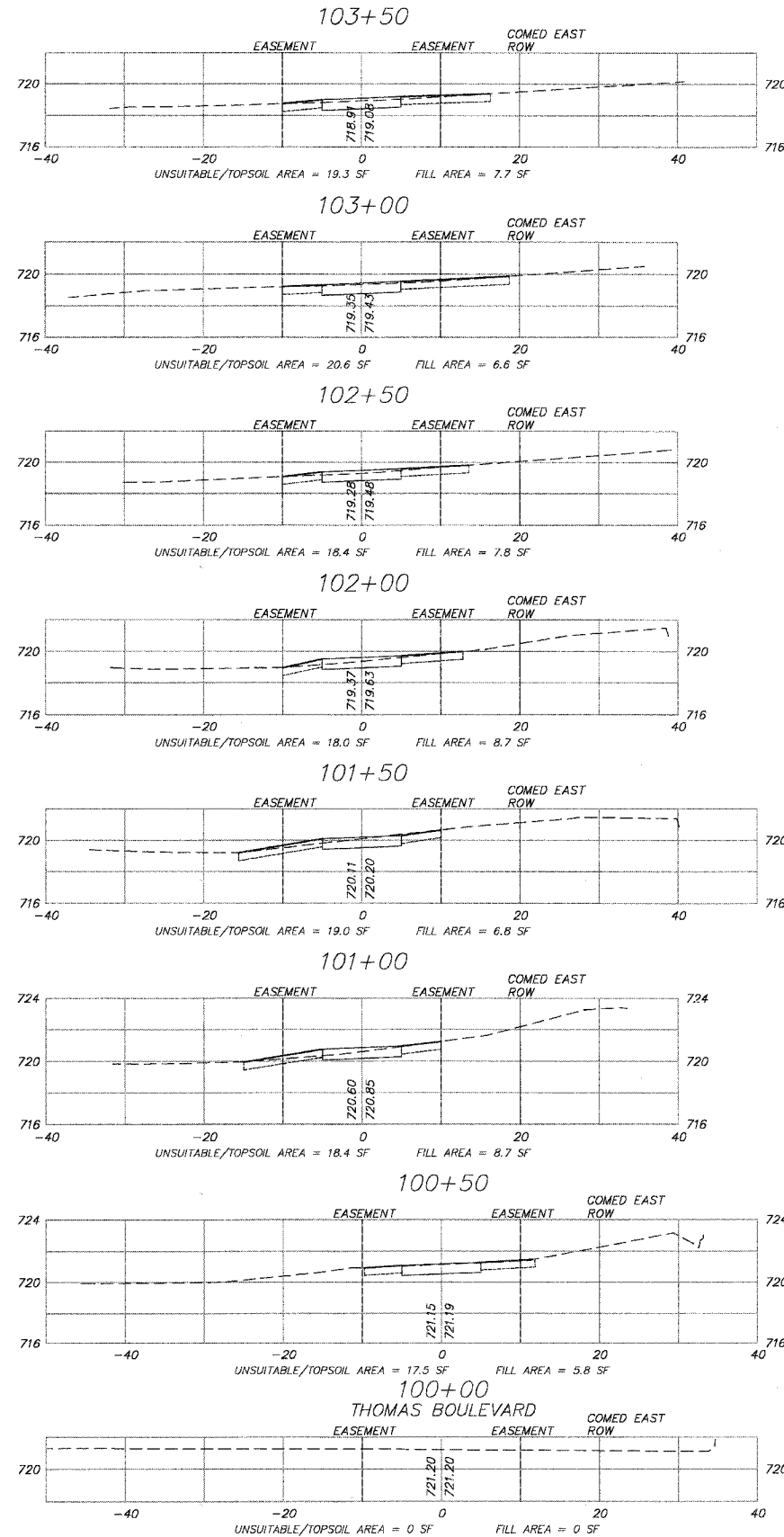
DISTRICT ONE

TYPICAL PAVEMENT MARKINGS

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
T. RAMMACHER	01-06-00

SCALE: NONE
DATE 11/20/01
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00075-00-BT	LAKE	42	38
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FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			
CONTRACT NO. 83890				



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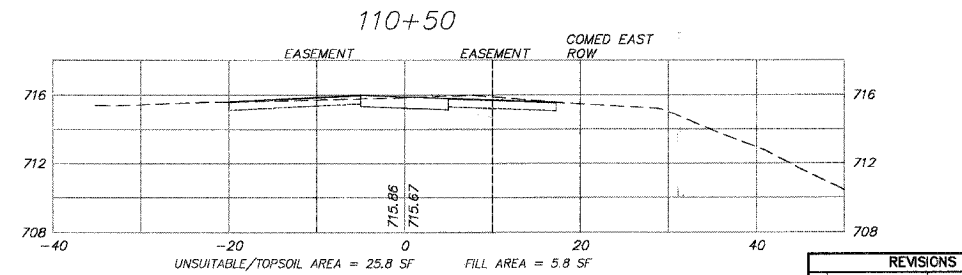
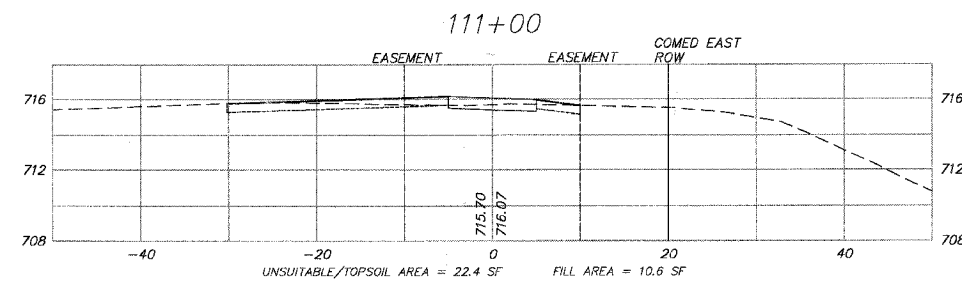
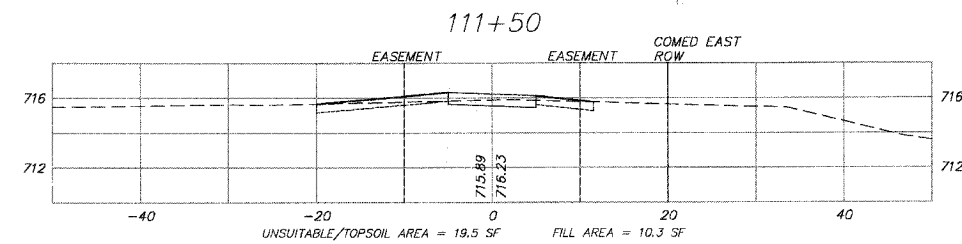
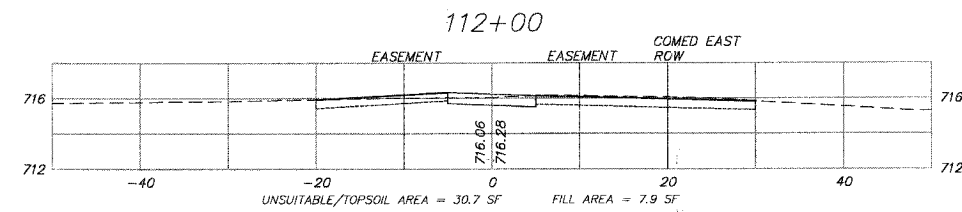
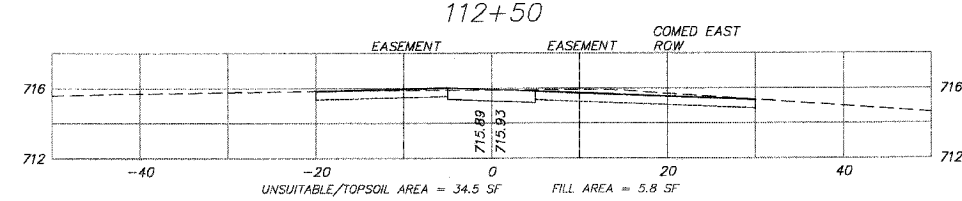
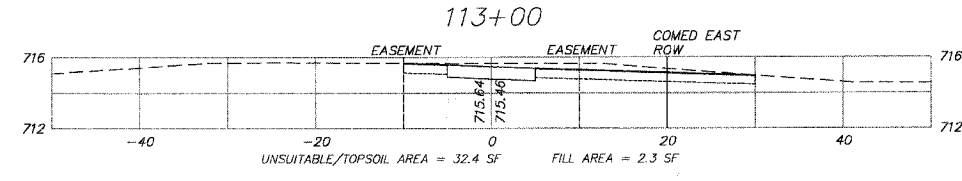
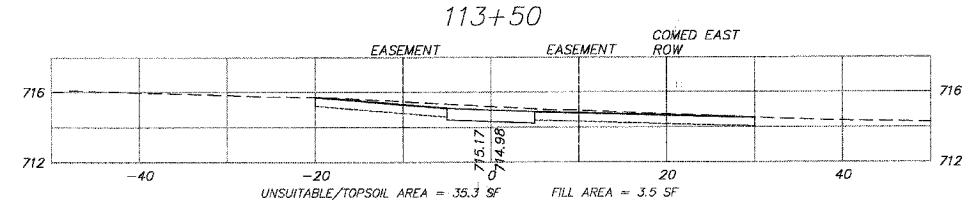
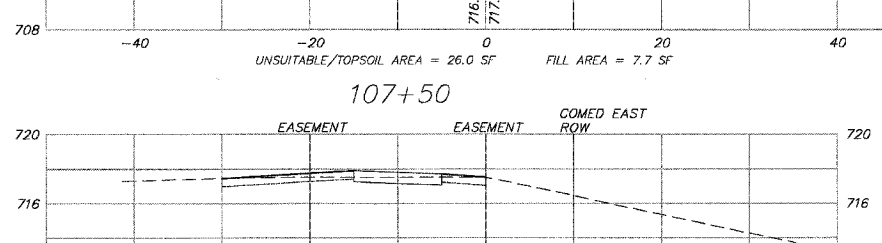
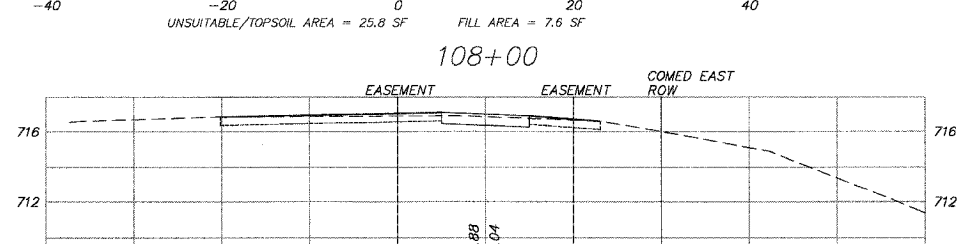
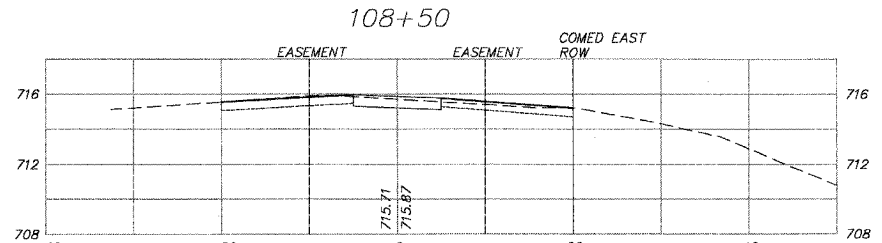
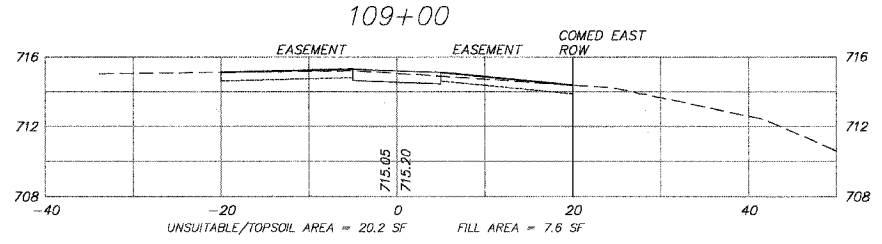
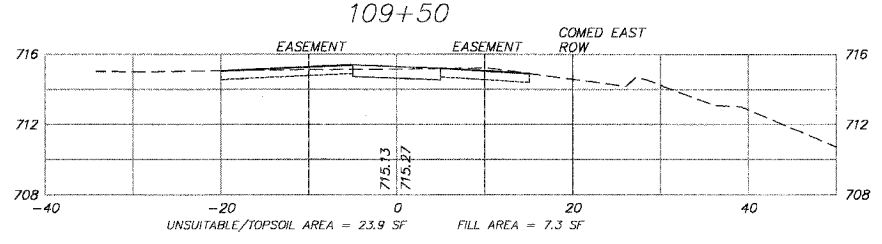
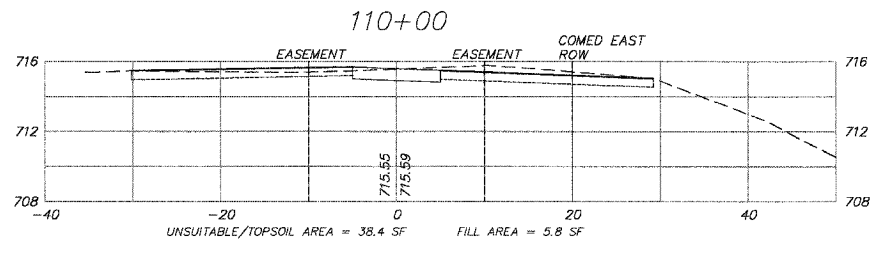
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SMITH ENGINEERING CONSULTANTS, INC.
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MCHENRY, ILLINOIS 60050
TEL: 815-385-1770 FAX: 815-385-1781
www.smithengineering.com E-MAIL: sec@smithengineering.com
MCHENRY HUNTLEY YORKVILLE
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF MUNDELEIN
CMAQ/SEAVEY BIKE PATH
CROSS SECTIONS
STA. 100+00 TO STA. 107+00

SCALE: 1" = 10'
DATE 11-15-06
DRAWN BY BDH
CHECKED BY GFR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00075-00-BT	LAKE	42	39
STA.	107+50	TO STA.	113+50	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			
CONTRACT NO. 83890				



REVISIONS		
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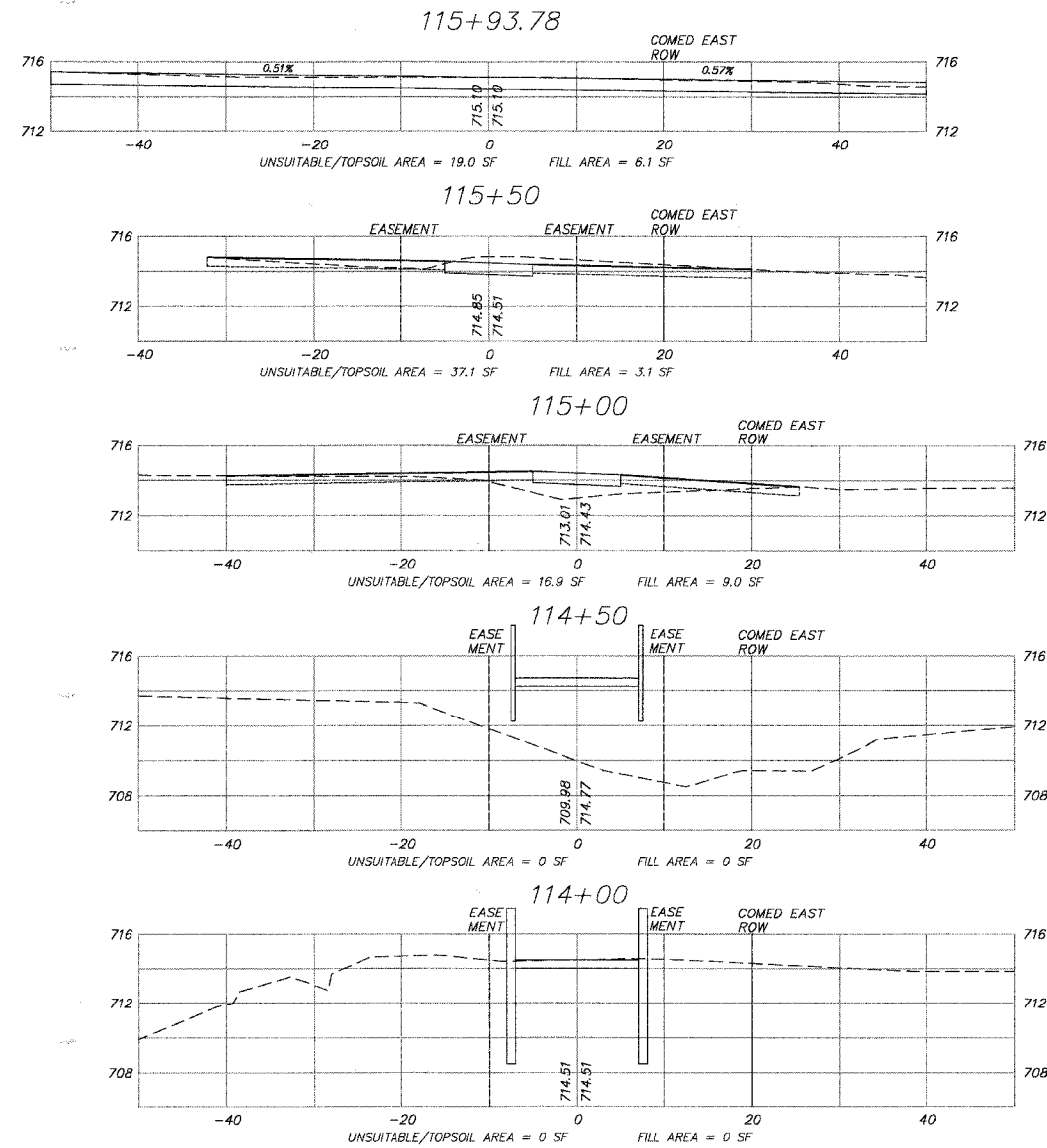
SMITH ENGINEERING CONSULTANTS, INC.
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS
 4000 PRIME PARKWAY, SUITE 201
 MARIETTA, ILLINOIS 60060
 PH: 815-385-1778 FAX: 815-385-1761
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 * MARIETTA * YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
 VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 CROSS SECTIONS
 STA. 107+50 TO STA. 113+50

SCALE: 1" = 10'
 DATE 11-15-06
 DRAWN BY BDH
 CHECKED BY GFR

PLOT FILE: STANDARD
 VIEW: 30
 CLMP: FILE: 050460-803.rnc.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00075-00-BT	LAKE	42	40
STA.	114+50	TO STA.	115+93.78	
FED. ROAD DIST. NO. 1	ILLINOIS HIGHWAY PROJECT			
CONTRACT NO. 83890				



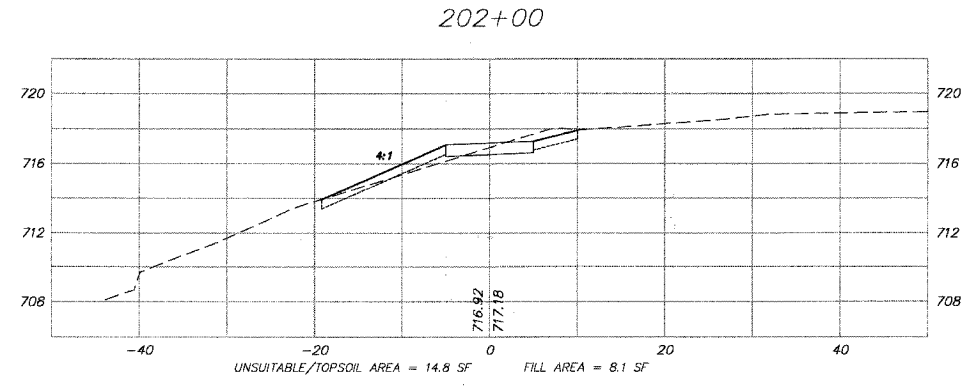
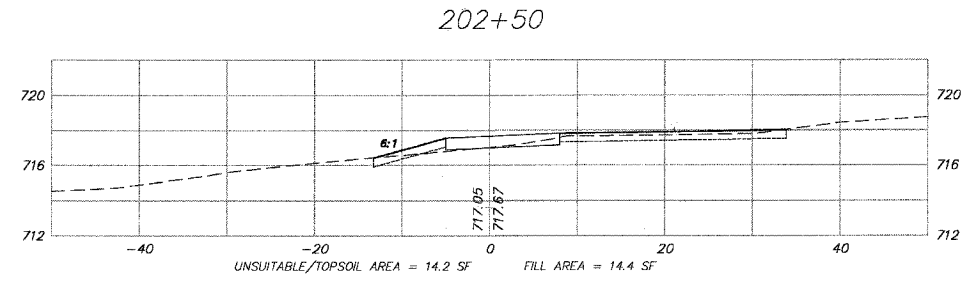
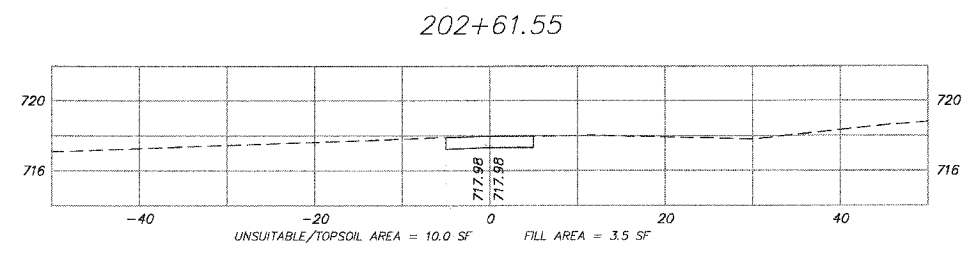
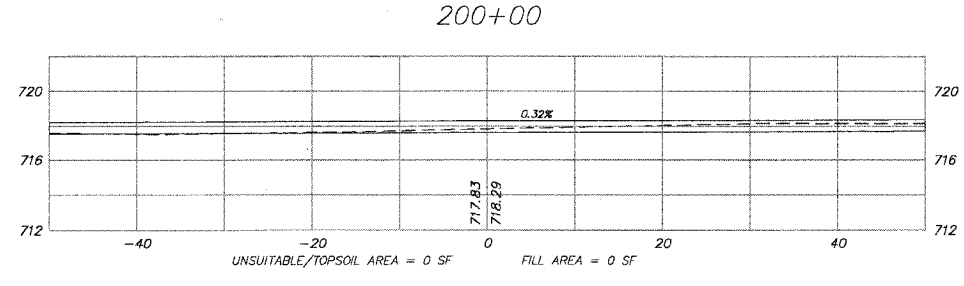
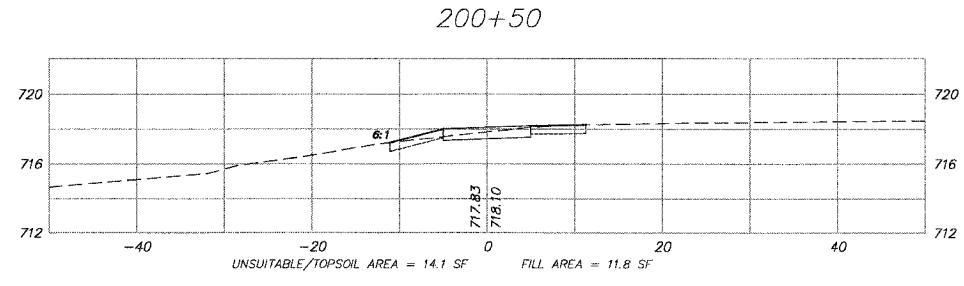
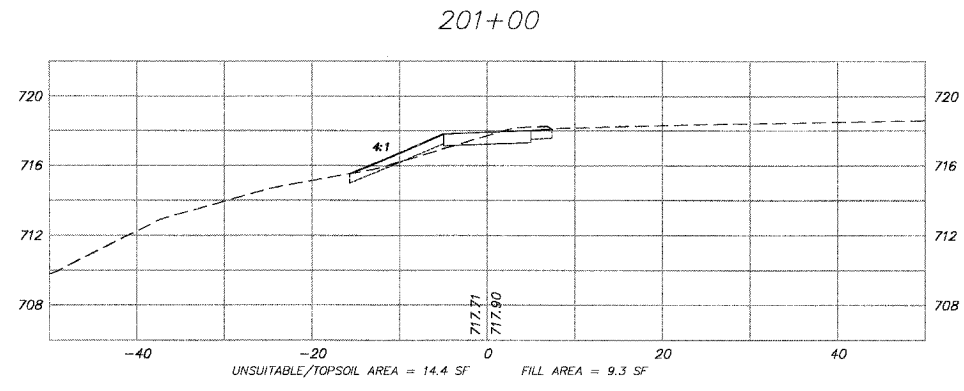
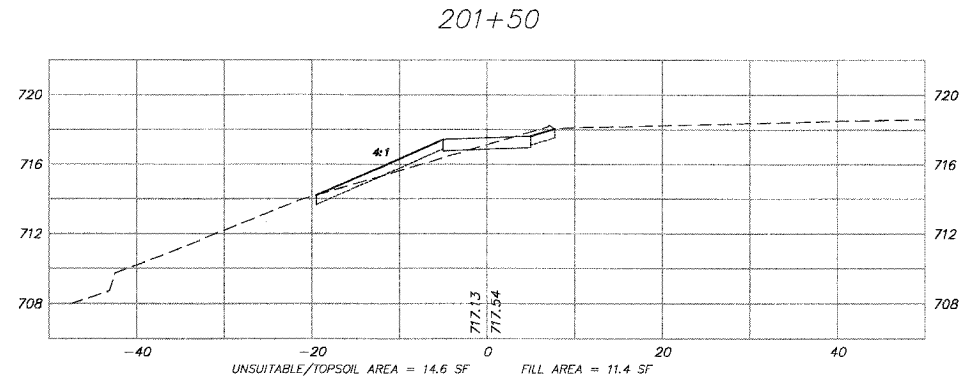
PLOT FILE: STANDARD
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COMP. FILE: 020460-02.rvt.dwg

REVISIONS		
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SMITH ENGINEERING CONSULTANTS, INC.
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McKENNA HUNTLEY YORKVILLE
ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF MUNDELEIN
CMAQ/SEAVEY BIKE PATH
CROSS SECTIONS
STA. 114+00 TO STA. 115+93.78
SCALE: 1" = 10'
DATE 11-15-06
DRAWN BY BDH
CHECKED BY GFR

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
04-00075-00-BT	LAKE	LAKE	42	41
STA. 200+00	TO STA. 202+61.55			
FED. ROAD DIST. NO. 1	ILLINOIS	HIGHWAY PROJECT		
CONTRACT NO. 83890				



REVISIONS		
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SMITH ENGINEERING CONSULTANTS, INC.
 CIVIL/STRUCTURAL ENGINEERS AND SURVEYORS
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 MCHENRY HUNTLEY YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000108

ILLINOIS DEPARTMENT OF TRANSPORTATION

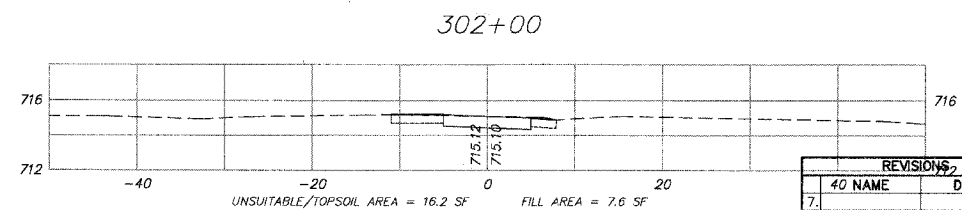
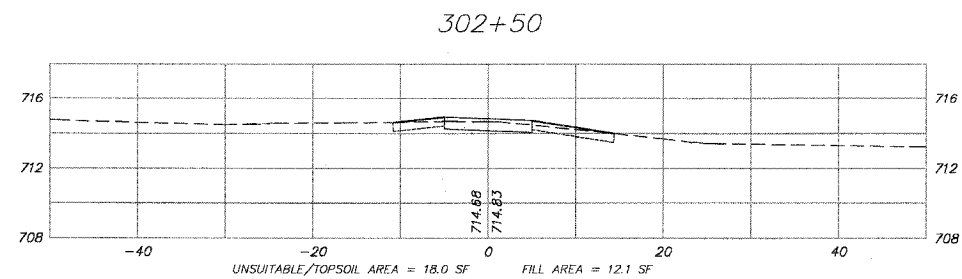
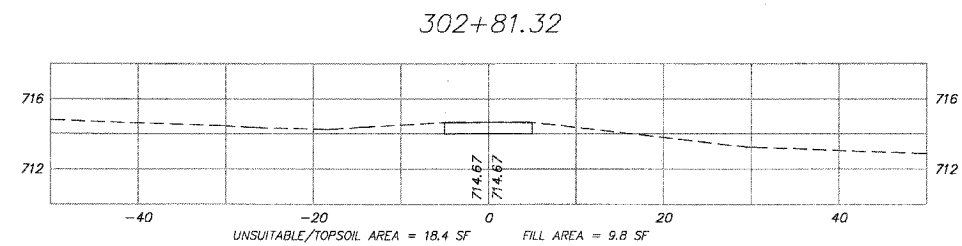
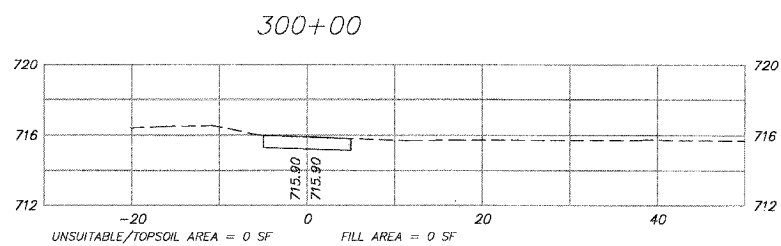
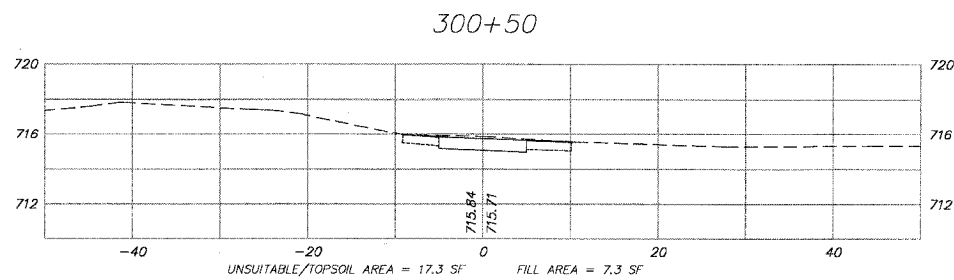
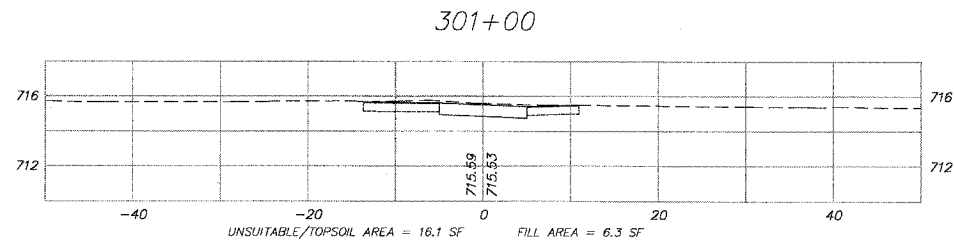
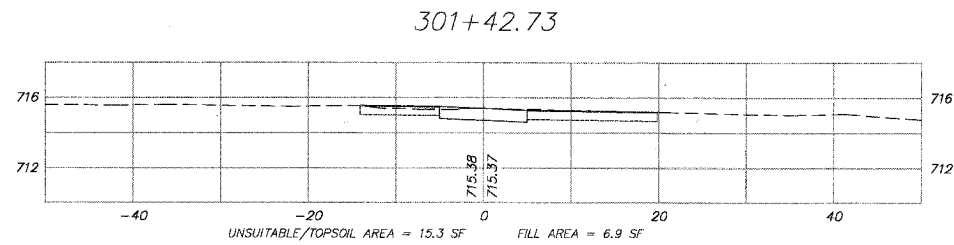
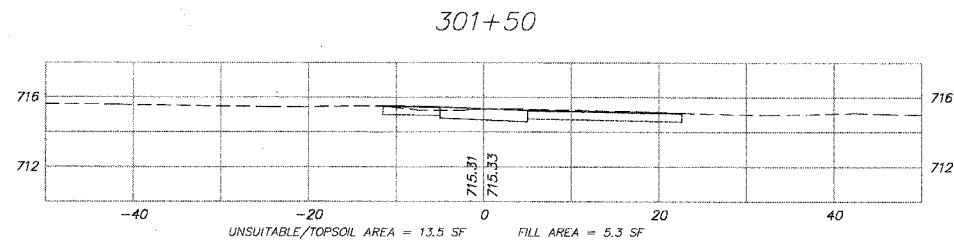
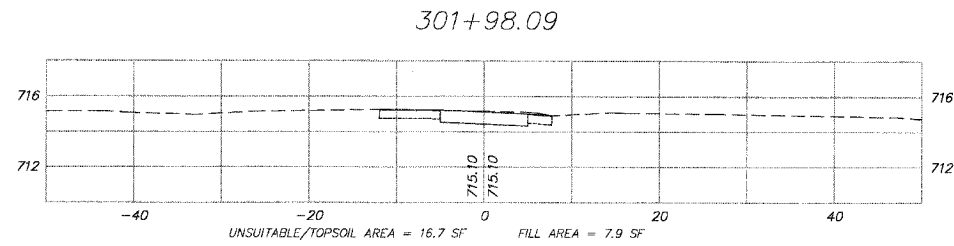
VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 CROSS SECTIONS
 STA. 200+00 TO STA. 202+61.55

SCALE: 1" = 10'
 DATE 11-15-06

DRAWN BY BDH
 CHECKED BY GFR

PLOT FILE STANDARD
 REV# 41
 COMP. FILE: 050460-603 rev.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00075-00-BT	LAKE	42	42
STA.	300+00	TO STA.	302+17.16	
FED. ROAD DIST. NO. 1	ILLINOIS		HIGHWAY PROJECT	
CONTRACT NO. 83890				



REVISIONS		
NO	NAME	DATE
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 McHENRY HUNTLEY YORKVILLE
 ILLINOIS PROFESSIONAL DESIGN FIRM # 184-000106

ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF MUNDELEIN
 CMAQ/SEAVEY BIKE PATH
 CROSS SECTIONS
 STA. 300+00 TO STA. 302+17.16

SCALE: 1" = 10'
 DATE 11-15-06

DRAWN BY BDH
 CHECKED BY GFR

PLOT FILE: STANDARD
 VIEW: 42
 COMP. FILE: 050465-623 rev.dwg