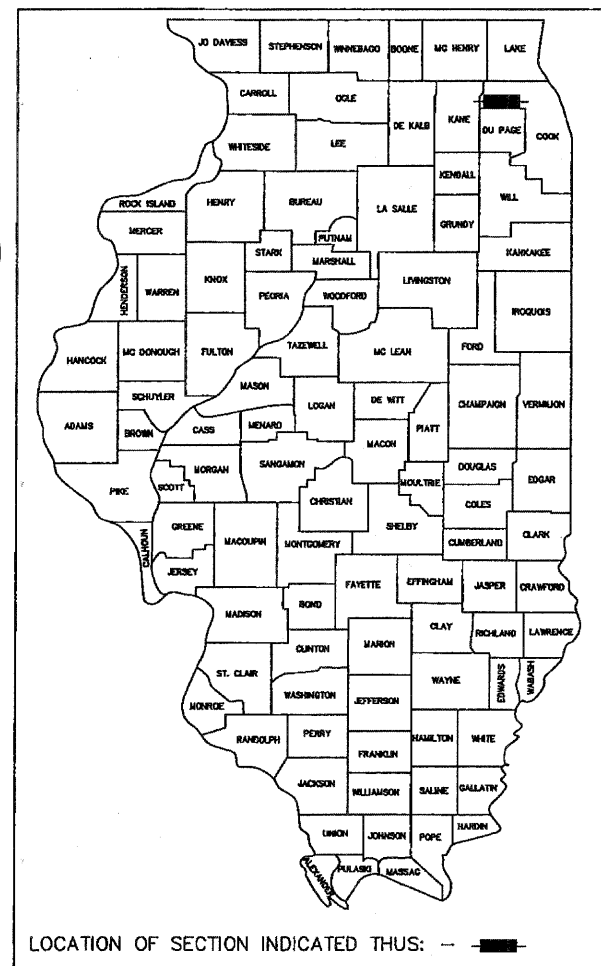


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	COOK	86	1
ILLINOIS Contract No. 63233				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY  
FAP ROUTE 341 IL RTE 72 (HIGGINS ROAD)  
GOLF ROAD TO PLUM GROVE ROAD  
**PEDESTRIAN AND BICYCLE PROJECT**  
PROJECT NO. CMM-9003(243)  
SECTION NO. 08-00080-00-BT  
JOB NO. C-91-330-09  
VILLAGE OF HOFFMAN ESTATES  
COOK COUNTY



LOCATION OF SECTION INDICATED THUS: —

GOLF ROAD ADT = 33,200 SPEED LIMIT: 45 MPH	HIGGINS ROAD ADT = 42,800 SPEED LIMIT: 45 MPH	BIKE PATH DESIGN SPEED: 20 MPH
--	---	-----------------------------------

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	August 4, 2011 <i>Lynn Delavitch</i> VILLAGE OF HOFFMAN ESTATES, DIRECTOR OF ENGINEERING
PASSED	August 4, 2011 <i>Christoph</i> DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS
Releasing for Bid Based on Limited Review	August 5, 2011 <i>Dinan M. O'Keefe</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

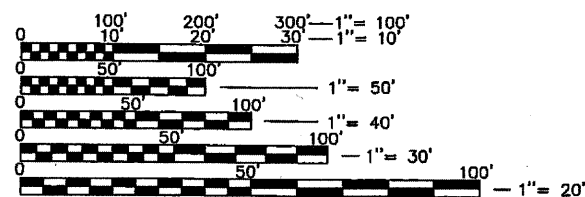
- 1 TITLE SHEET
- 2 GENERAL NOTES AND LEGEND
- 3-4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
- 6-17 PLAN AND PROFILE-HIGGINS ROAD
- 18-19 PLAN AND PROFILE-GOLF ROAD
- 20-27 DRAINAGE, UTILITIES & EROSION AND SEDIMENT CONTROL
- 28-34 STRIPING & SIGNAGE PLAN
- 35-39 LANDSCAPING
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- 42-43 TRAFFIC SIGNAL MODIFICATION PLANS-HIGGINS RD AND GOLF RD
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ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 424001-05 CURB RAMPS FOR SIDEWALKS
- 606001-04 CONCRETE CURB AND COMBINATION CONCRETE CURB & GUTTER
- 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-02 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-02 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701601-07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-07 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-04 LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- 814001-02 CONCRETE HANDHOLES
- 880006-01 TRAFFIC SIGNAL MOUNTING DETAILS
- 886001-01 DETECTOR LOOP INSTALLATIONS
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

IDOT DISTRICT ONE STANDARD DRAWINGS

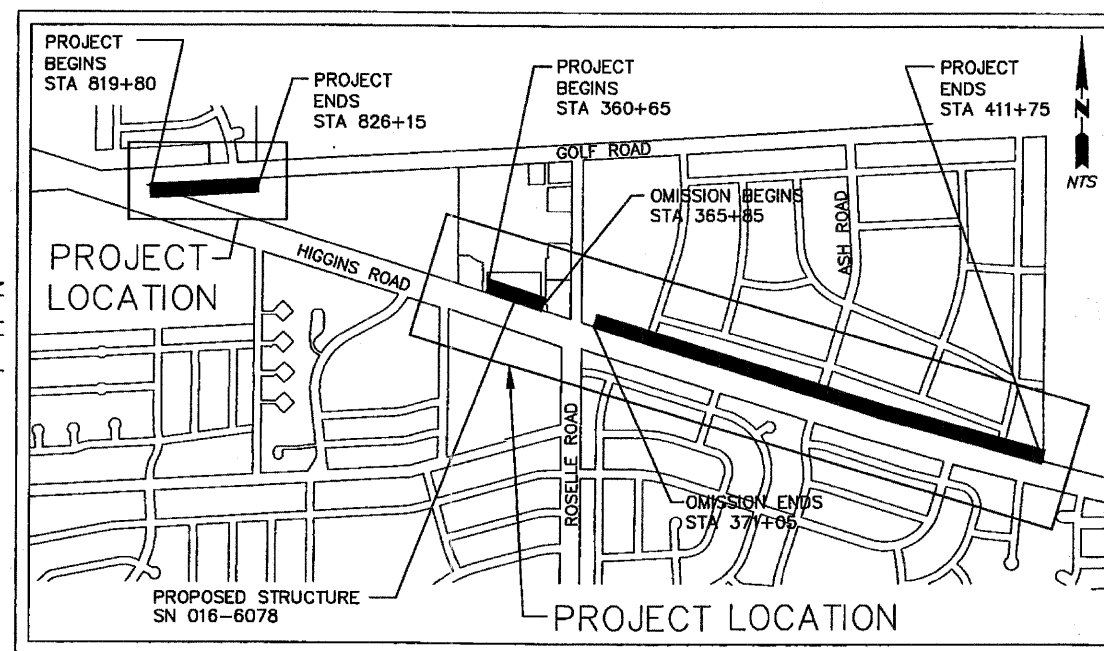
- BD-51 BENCHING DETAIL FOR EMBANKMENT WIDENING
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC-13 TYPICAL PAVEMENT MARKINGS
- TS-05 STANDARD TRAFFIC SIGNAL DESIGN DETAILS



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  
OR 811

Project Engineer: Nathan Roseberry, P.E.  
(847) 252-5800 Hoffman Estates, IL  
CONTRACT NO. 63233



LOCATION MAP

GROSS LENGTH = 5714 LIN. FT. (1.08 MILES)  
NET LENGTH = 4965 LIN. FT. (0.94 MILE)

*Nathan Roseberry*  
REGISTERED PROFESSIONAL ENGINEER  
NATHAN ROSEBERRY  
LIC. NO. 062 - 080427  
LIC. EXP. 11-30-11

*Zein Uzun*  
STRUCT. NO. 4795  
LIC. EXP. 11-30-12

Program and Office Engineer: Charles F. Riddle, P.E. (847) 705-4406 Schaumburg, IL

# GENERAL NOTES

- ITEMS OF WORK LISTED IN THE SUMMARY OF QUANTITIES WHICH ARE NOT SPECIFICALLY INDICATED IN THE PLANS SHALL BE PERFORMED AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- THE VILLAGE SHALL NOT ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS.
- THE LOCATION OF PUBLIC AND PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY UTILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. FOR UNDERGROUND UTILITY LOCATIONS, CALL 48 HOURS BEFORE DIGGING, (EXCLUDING SATURDAY, SUNDAY & HOLIDAYS) J.U.L.I.E. 1-800-692-0123 OR 811.
- THE PROPOSED PROFILE WILL MATCH EXISTING ON ALL SHEETS UNLESS OTHERWISE NOTED.
- THE VILLAGE OF HOFFMAN ESTATES WILL BE PROVIDING CONSTRUCTION LAYOUT AND STAKING OF THE PROPOSED SIDEWALKS & BIKE PATH. THE SIDEWALK & BIKE PATH LOCATIONS ARE ESSENTIALLY FOLLOWING AN ESTABLISHED FOOT PATH AND EXISTING TERRAIN. VARIATIONS IN THE PATH ARE SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL KEEP THE AREA OF CONSTRUCTION FREE OF DEBRIS AND OBJECTIONAL MATERIALS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN ALL DRAINAGE FACILITIES DURING CONSTRUCTION AND SHALL REPAIR ANY DRAINAGE FACILITIES DAMAGED DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND WILL NOT BE PAID FOR SEPARATELY.
- MINIMUM SIDEWALK THICKNESS SHALL BE 5" AND THE MINIMUM BIKE PATH THICKNESS SHALL BE 2".
- MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 5%.
- MAXIMUM TRANSVERSE SLOPE SHALL BE 1/4"/FT (2%).
- ALL SIDEWALKS WITHIN THE PROJECT LIMITS AND ADJACENT TO THE CURB SHALL BE REMOVED AND REPLACED TO CONSTRUCT SIDEWALK RAMPS ACCESSIBLE TO THE DISABLED ACCORDING TO IDOT STANDARD 424001 - TYPE B.
- A MINIMUM 4" AGGREGATE BASE COURSE, TYPE B, SHALL BE PROVIDED FOR THE SIDEWALK AND A MINIMUM 6" AGGREGATE BASE COURSE, TYPE B, SHALL BE PROVIDED FOR THE BIKE PATH.
- AGGREGATE BASE COURSE SHALL BE MECHANICALLY COMPACTED. ONLY 2x6 WOOD FORMS SHALL BE USED FOR FRAMING THE CONCRETE WORK OR APPROVED EQUAL.
- THE CONTRACTOR SHALL PROTECT ALL SIDEWALKS AND CURB & GUTTER FROM DAMAGE AND VANDALISM.
- SUPPLEMENTAL WATERING SHALL BE AT THE DIRECTION OF THE ENGINEER FOR SOD.
- SODDING SHALL OCCUR BETWEEN THE SIDEWALK AND THE CURB, AS SHOWN ON THE PLANS, OR AT THE DIRECTION OF THE ENGINEER.

EXISTING	PROPOSED	
		SIDEWALK OR CURB & GUTTER
		ASPHALT BIKE PATH
		REMOVAL OF SIDEWALK OR CURB
		REMOVAL AND REPLACEMENT OF CURB
		STORM MANHOLE
		STORM INLET
		CATCH BASIN
		SANITARY SEWER
		UTILITY POLE - SINGLE UTILITY
		UTILITY POLE - MULTIPLE UTILITIES
		FIRE HYDRANT
		STORM SEWER
		SANITARY SEWER
		WATER MAIN
	F&L	NEW FRAME AND LID
	ADJ	STRUCTURES TO BE ADJUSTED
	RCN	STRUCTURES TO BE RECONSTRUCTED

## LEGEND

EXISTING	PROPOSED	
		ROW LINE
		DITCH LINE
		TOP OF BANK
		STREET LIGHT CABLE
	R&R	REMOVE AND RESET
	T or E	TELEPHONE OR ELECTRICAL PEDESTAL
		SIGN
		FLARED END SECTION
		LIGHT POLE
		DETECTABLE WARNING
		RIP RAP
		SPLIT RAIL FENCE
		INLET AND PIPE PROTECTION
		SILT FENCE
		AT&T UNDERGROUND TELEPHONE LINE
		VERIZON UNDERGROUND FIBER OPTIC LINE

## LANDSCAPING LEGEND

EXISTING	PROPOSED	
		OVERSTORY/ORNAMENTAL TREE
		EVERGREEN TREE
		REMOVE EXISTING TREE
		REMOVE EXISTING EVERGREEN
		BUSH
		BUSH REMOVE
		BUSHES/LANDSCAPING
		CLEARING AREA
		SHRUB MASS

17. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

CONSTRUCTION TYPE CODES

NEW BRIDGE: SN 016-6078

CODE NO.	ITEM	UNIT	QUANTITY	0021	0008
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	550	550	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	214	214	
20101000	TEMPORARY FENCE	FOOT	2700	2700	
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	23	23	
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	45	45	
20200100	EARTH EXCAVATION	CU YD	2126	2126	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100	100	
20400800	FURNISHED EXCAVATION	CU YD	773	773	
20800150	TRENCH BACKFILL	CU YD	47	47	
* 21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	6553	6553	
21400100	GRADING AND SHAPING DITCHES	FOOT	100	100	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	77	77	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	77	77	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	77	77	
* 25200110	SODDING, SALT TOLERANT	SQ YD	6553	6553	
* 25200200	SUPPLEMENTAL WATERING	UNIT	18	18	
28000500	INLET AND PIPE PROTECTION	EACH	10	10	
28000510	INLET FILTERS	EACH	3	3	
28100107	STONE RIPRAP, CLASS A4	SQ YD	59	59	
28200200	FILTER FABRIC	SQ YD	59	59	
31101100	SUB BASE GRANULAR MATERIAL, TYPE B	CU YD	100	100	
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	960	960	
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	4107	4107	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	616	616	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	474	474	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	8640	8640	
42400800	DETECTABLE WARNINGS	SQ FT	282	282	
44000100	PAVEMENT REMOVAL	SQ YD	44	44	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	375	375	
44000600	SIDEWALK REMOVAL	SQ FT	700	700	
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	182	182	
542A5491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	48	48	
54214731	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 36"	EACH	2	2	
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	4	4	
54248160	GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND-SIZE 36"	EACH	2	2	
60107700	PIPE UNDERDRAINS 6"	FOOT	15	15	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60255500	MANHOLES TO BE ADJUSTED	EACH	8	8	
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1	
60603900	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (ABUTTING EXISTING PAVEMENT)	FOOT	233	233	
60605100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (ABUTTING EXISTING PAVEMENT)	FOOT	180	180	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	20	20	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
67100100	MOBILIZATION	L SUM	1	1	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
72000100	SIGN PANEL - TYPE 1	SQ FT	55	55	
72900100	METAL POST - TYPE A	FOOT	161	161	
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2	2	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1877	1877	
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	2750	2750	

\* - SPECIALTY ITEM

FILE NAME = DETAILSH.DWG	DESIGNED --	REVISED --		VILLAGE OF HOFFMAN ESTATES 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800	Higgins Road Bicycle and Pedestrian Project Summary of Quantities			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN --	REVISED --						341	08-00080-00-BT	Cook	86	3
	CHECKED --	REVISED --						CONTRACT NO. 63233				
	DATE --	REVISED --						ILLINOIS FED. AID PROJECT CMM 9003(243)				
				SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.					

CONSTRUCTION TYPE CODES

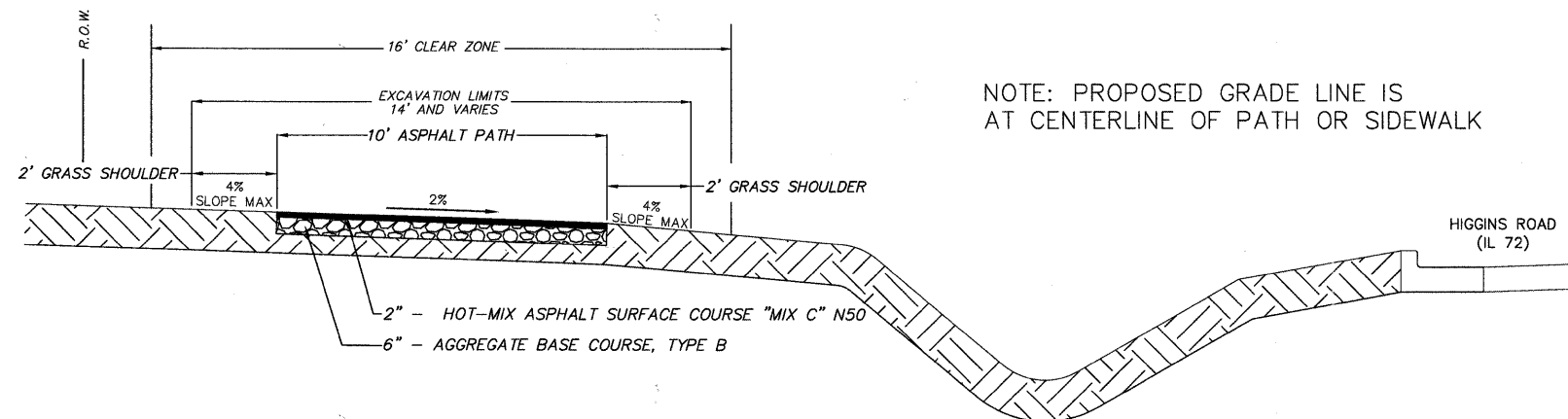
NEW BRIDGE: SN 016-6078

CODE NO.	ITEM	UNIT	QUANTITY	0021	0008
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	312	312	
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	505	505	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	176	176	
* 81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	50	50	
* 81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	13	13	
* 81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	90	90	
* 81400100	HANDHOLE	EACH	1	1	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	2	
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	4500	4500	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2529	2529	
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	400	400	
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	737	737	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	155	155	
* 87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	2	2	
* 87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	1	1	
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16	16	
* 87900200	DRILL EXISTING HANDHOLE	EACH	4	4	
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1	
* 88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2	2	
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8	8	
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	2	2	
* 88500105	INDUCTIVE LOOP DETECTOR (SPECIAL)	EACH	2	2	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	175	175	
* 89502200	MODIFY EXISTING CONTROLLER	EACH	2	2	
* A2000820	TREE, ACER PLATANOIDES CRIMSON KING, (CRIMSON KING NORWAY MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11	
* A2001420	TREE, ACER SACCHARINUM AUTUMN BLAZE (AUTUMN BLAZE SILVER MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10	10	
* A2007920	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	11	11	
* B2001666	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	10	10	
* B2002666	TREE, MALUS ADAMS (ADAMS CRABAPPLE), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	14	14	
* B2004166	TREE, MALUS PRAIRIFIRE (PRAIRIFIRE CRABAPPLE), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	11	11	
* C2006236	SHRUB, RIBES ALPINUM (ALPINE CURRANT), 3' HEIGHT, BALLED AND BURLAPPED	EACH	420	420	
* C2011136	SHRUB, SYRINGA X PERSICA (PERSIAN LILAC), 3' HEIGHT, BALLED AND BURLAPPED	EACH	390	390	
* C2011836	SHRUB, VIBURNUM DENTATUM MORTON (NORTHERN BURGUNDY ARROWWOOD VIBURNUM), 3' HEIGHT, BALLED AND BURLAPPED	EACH	510	510	
* D2001972	EVERGREEN, PICEA GLAUCA DENSATA (BLACK HILLS SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	14	14	
* D2002272	EVERGREEN, PICEA PUNGENS GLAUCA (COLORADO BLUE SPRUCE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	15	15	
* D2002772	EVERGREEN, PINUS NIGRA (AUSTRIAN PINE), 6' HEIGHT, BALLED AND BURLAPPED	EACH	14	14	
X0321962	CONNECTION OF EXISTING PIPE UNDERDRAIN	EACH	1	1	
X2010505	CLEARING, SPECIAL	L SUM	1	1	
X7240300	SIGN REMOVAL	EACH	1	1	
* X8140115	HANDHOLE TO BE ADJUSTED	EACH	4	4	
XX003437	REMOVE AND REINSTALL EXISTING PRECAST REINFORCED CONCRETE FLARED END SECTIONS	EACH	4	4	
* XX006543	PEDESTRIAN PUSH-BUTTON, LED	EACH	18	18	
XX007985	SPECIAL FRAME, CLOSED LID	EACH	4	4	
* XX008197	REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	5	5	
* XX008287	BOARDWALK STRUCTURE	SQ FT	550		550
Z0023204	SEDIMENT CONTROL, SILT FENCE	FOOT	1365	1365	
* Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2	2	
Z0077900	WOOD POST AND RAIL FENCE	FOOT	215	215	

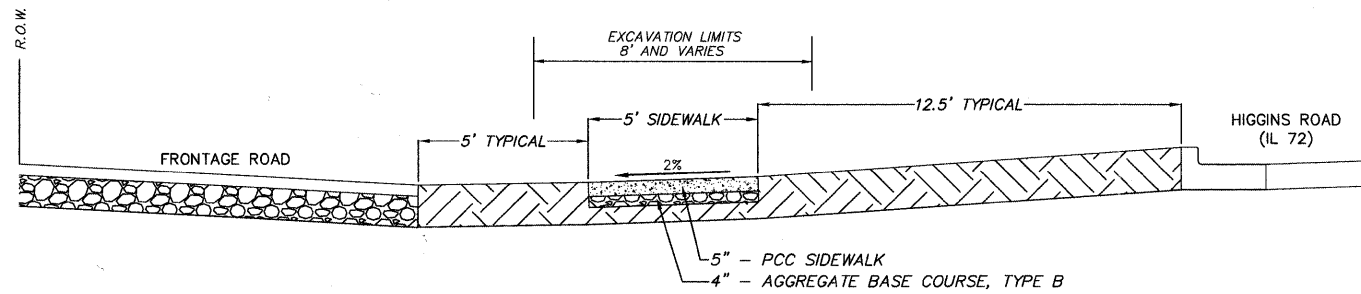
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	DRAWN --	REVISED --			Summary of Quantities			341	08-00080-00-BT	Cook	86	4
	CHECKED --	REVISED --			SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 63233			
	DATE --	REVISED --						ILLINOIS FED. AID PROJECT CMM 9003(243)				

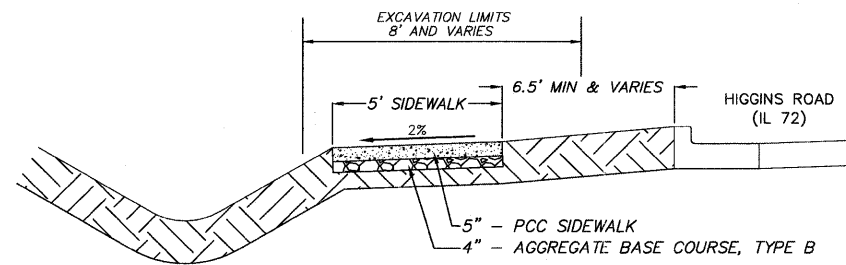




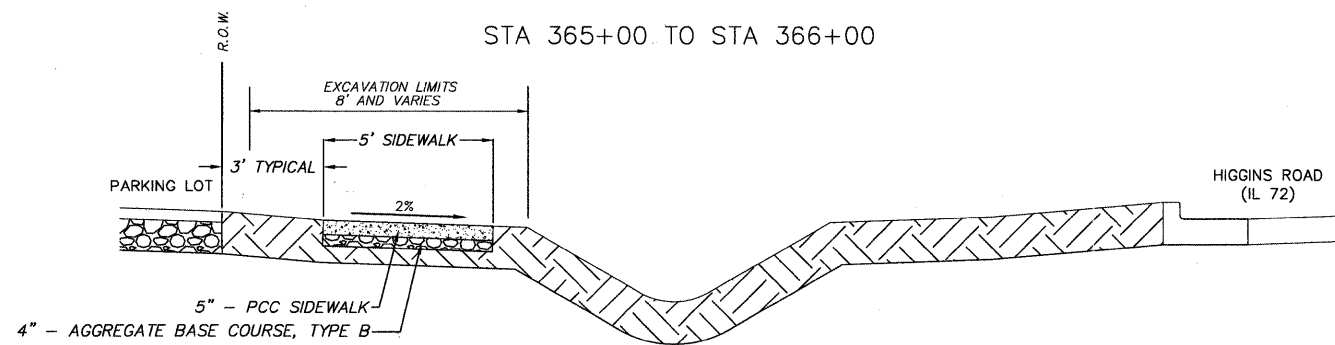
STA 375+65 TO STA 411+75



STA 371+00 TO STA 375+25



STA 365+00 TO STA 366+00

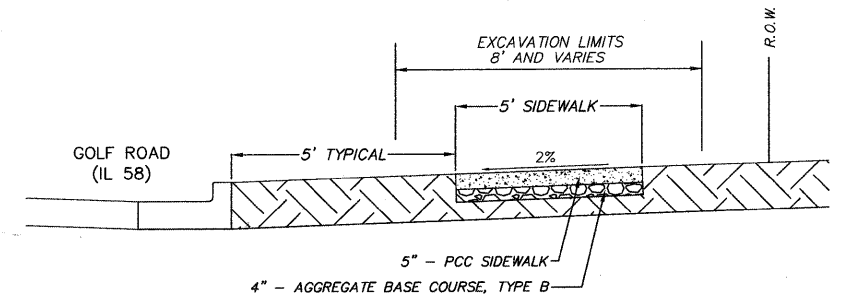


STA 360+65 TO STA 364+50

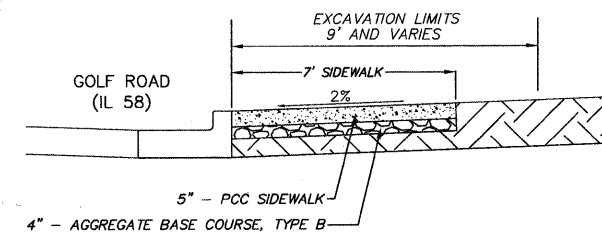
**HIGGINS ROAD PROPOSED TYPICAL  
SIDEWALK & BIKE PATH CROSS SECTION**

BEGIN IMPROVEMENTS STA 361+00 END IMPROVEMENTS STA 411+75

NOTE: PROPOSED GRADE LINE IS  
AT CENTERLINE OF PATH OR SIDEWALK



STA 820+85 TO STA 826+15



STA 819+80 TO STA 820+50

**GOLF ROAD PROPOSED  
TYPICAL SIDEWALK CROSS SECTION**

BEGIN IMPROVEMENTS STA 819+80 END IMPROVEMENTS STA 826+15

NOTE: TOPSOIL MAY BE SAVED DURING EXCAVATION FOR PLACEMENT AS GRADE PREPARATION FOR SOD PLACEMENT. TOPSOIL SHALL BE PAID FOR AS TOPSOIL FURNISH AND PLACE, 6 INCH. MAXIMUM TOPSOIL AND SODDING LIMIT IS 1.5' FOR THE SIDEWALK AND 2' FOR THE BIKE PATH. HOWEVER, ALL DISTURBED AREAS OUTSIDE OF THE LIMITS MUST BE SODDED.

**HOT-MIX ASPHALT MIXTURE REQUIREMENT**

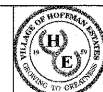
OPERATIONS	ITEM	VOIDS
BIKE PATH	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5 mm) 2"	4% @ 50 GYR

NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ YD/IN. THE "AC TYPE" FOR NON POLYMERIZED HMA SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

FILE NAME -  
DETAILSH.DWG

DESIGNED -  
DRAWN -  
CHECKED -  
DATE -

REVISED -  
REVISED -  
REVISED -  
REVISED -



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

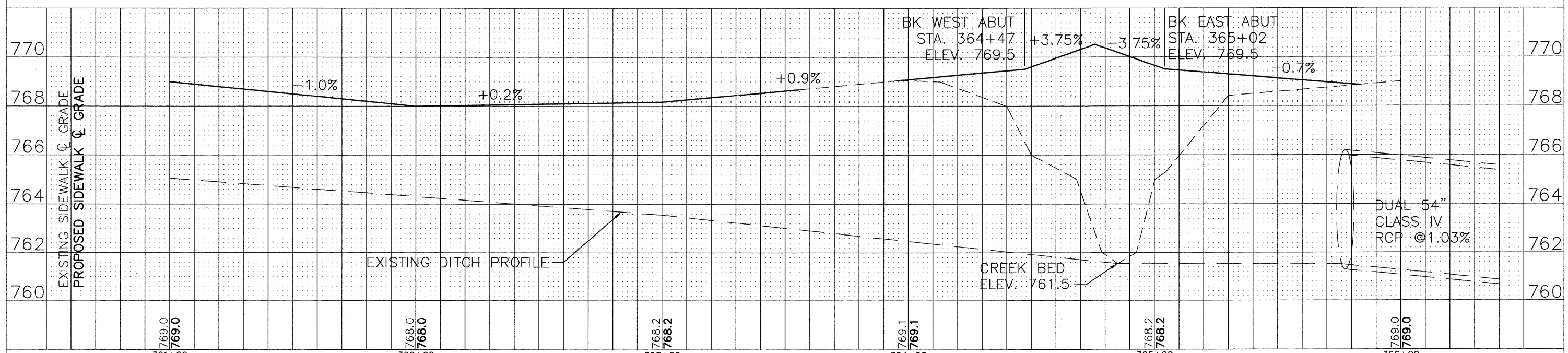
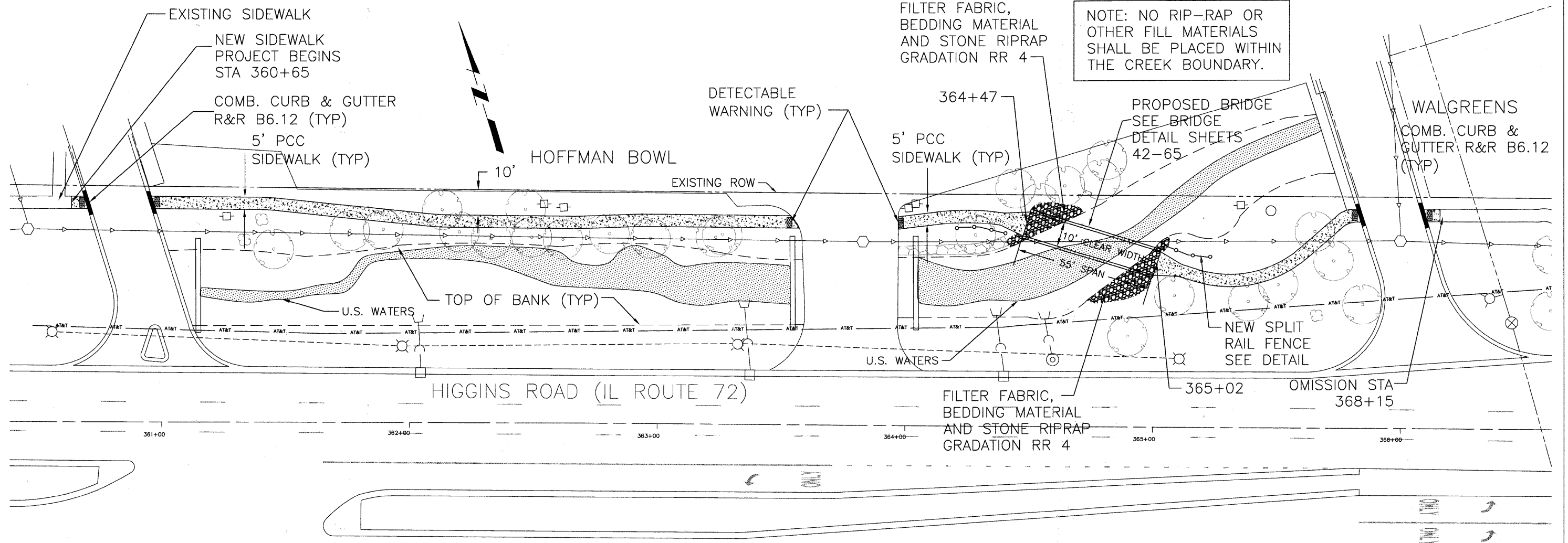
Higgins Road Bicycle and Pedestrian Project  
Typical Sections

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	5
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT CMM 9003(243)				

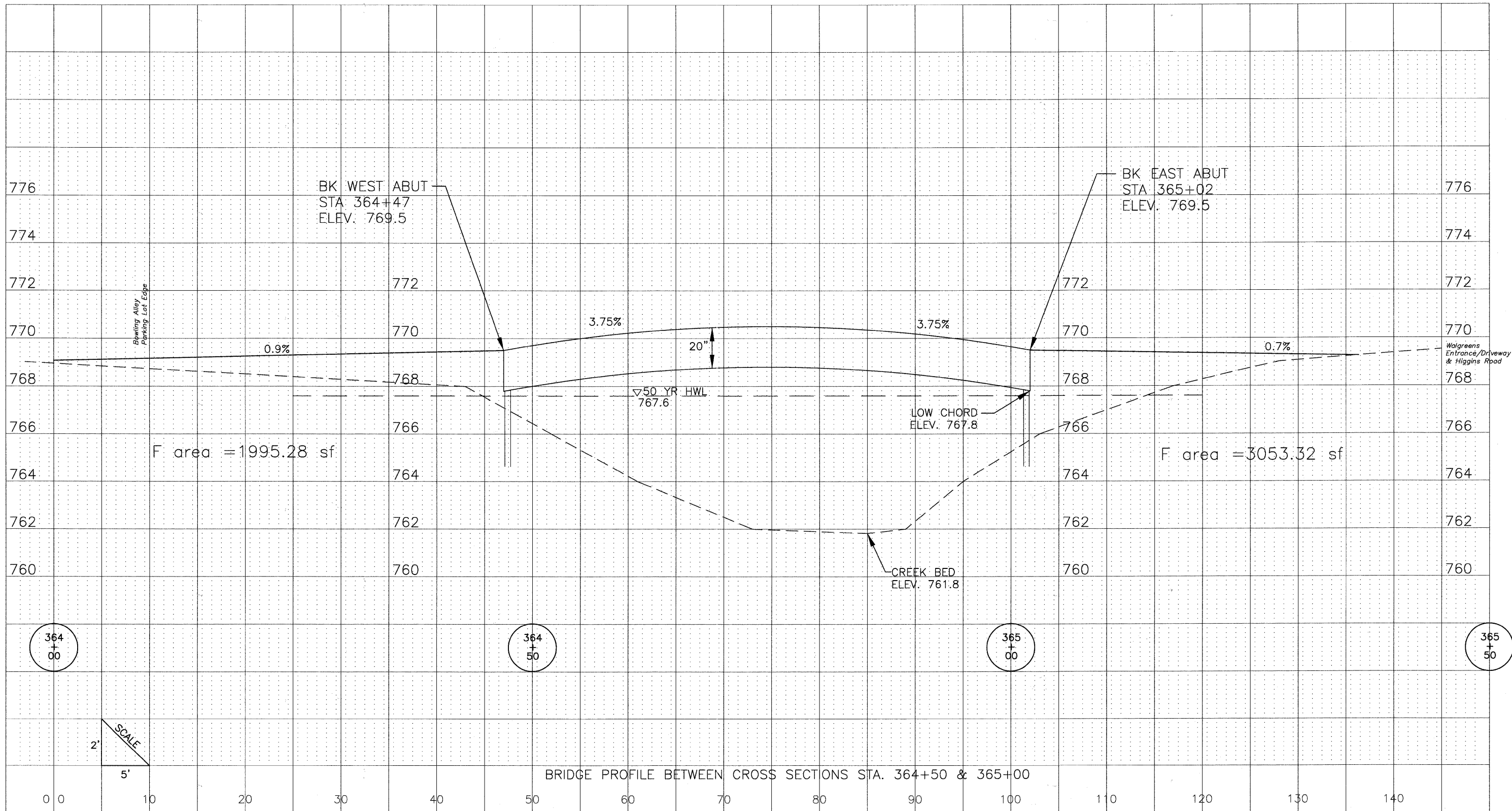
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 NOTE BOOK NO. \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 DATE \_\_\_\_\_  
 FILE NAME \_\_\_\_\_

PROFILE SURVEYED  
 PLOTTED  
 NOTE BOOK NO. \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 DATE \_\_\_\_\_  
 STRUCTURE NOTATION CHD \_\_\_\_\_



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

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



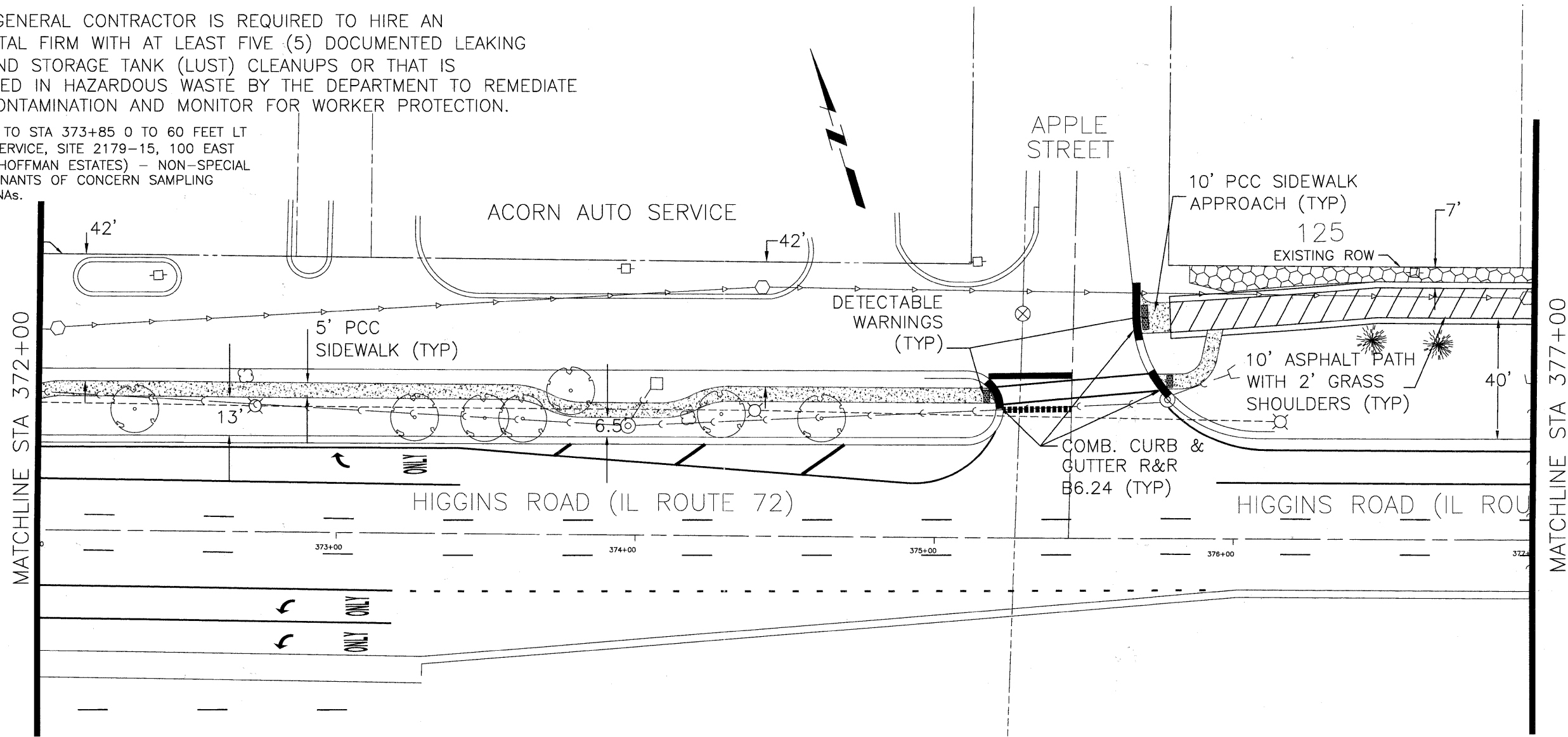
BRIDGE PROFILE BETWEEN CROSS SECTIONS STA. 364+50 & 365+00

HIGGINS ROAD



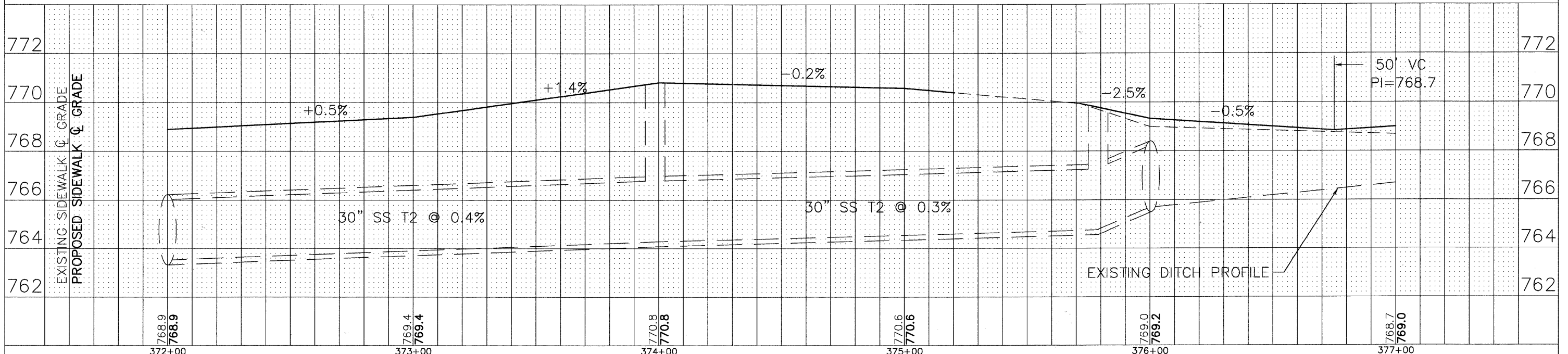
NOTE: THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

1. STA 372+65 TO STA 373+85 0 TO 60 FEET LT (ACORN AUTO SERVICE, SITE 2179-15, 100 EAST HIGGINS ROAD, HOFFMAN ESTATES) - NON-SPECIAL WASTE. CONTAMINANTS OF CONCERN SAMPLING PARAMETERS: PNAs.



PLAN	SURVEYED	DATE	BY
	PLOTTED		
	NOTE BOOK		
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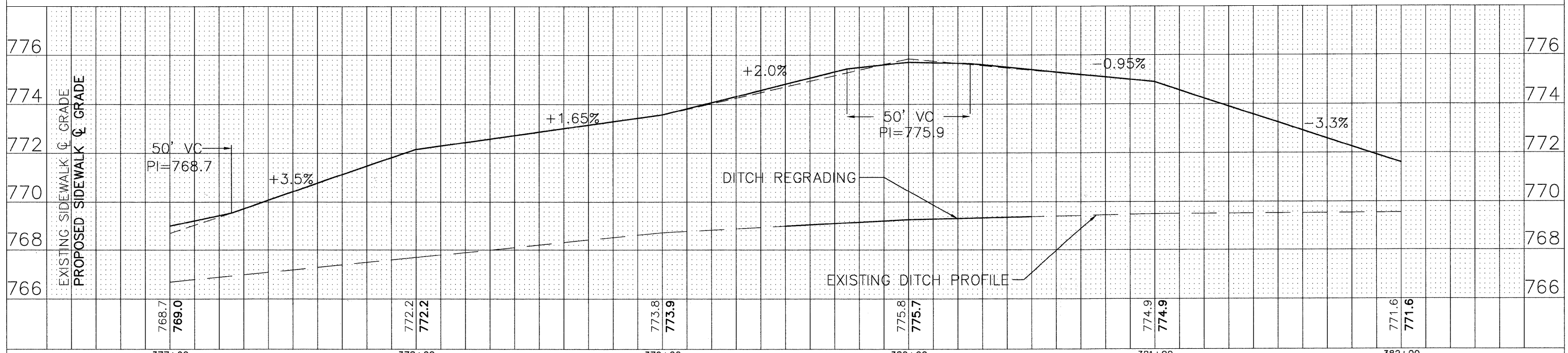
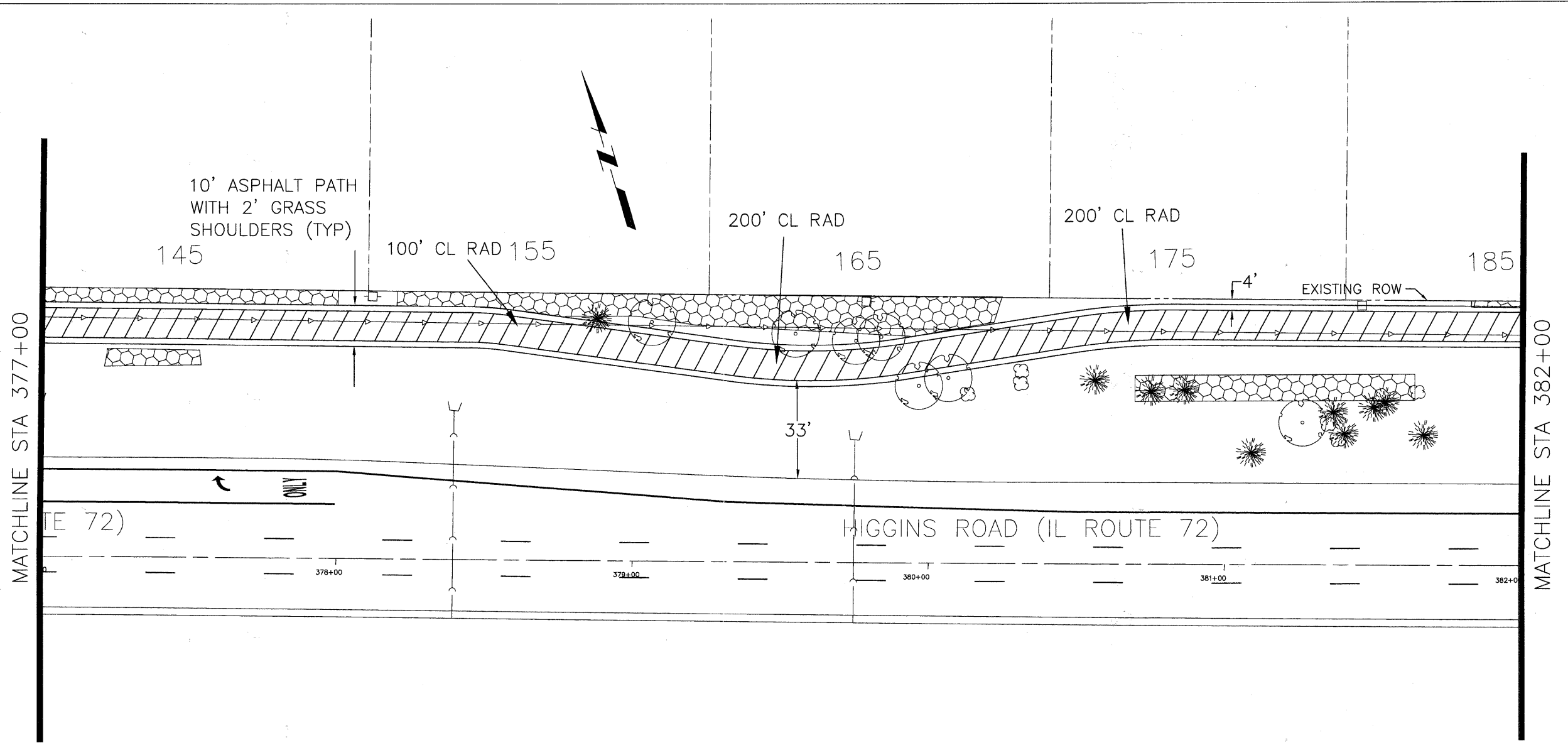
PROFILE	SURVEYED	DATE	BY
	PLOTTED		
	NOTE BOOK		
	NO.		



FILE NAME =	DESIGNED -	REVISED -	<p>VILLAGE OF HOFFMAN ESTATES 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800</p>	Higgins Road Bicycle and Pedestrian Project		F.A.P. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Higgins Bike Path-Plan & Profile.dwg	DRAWN -	REVISED -		Plan and Profile - Higgins Road		341	08-00080-00-BT	Cook	86	9
	CHECKED -	REVISED -		SCALE: 1" = 20'		SHEET NO. 3 OF 11 SHEETS		CONTRACT NO. 63233		
	DATE -	REVISED -		STA. 372+00 TO STA. 377+00		ILLINOIS FED. AID PROJECT CMM 9003(243)				

PLAN	SURVEYED	DATE	BY
	PLOTTED		
	CHECKED		
	REVISIONS		
	NO. OF SHEETS		
	DATE CHECKED		
	DATE		
	NO.		
	NO.		
	NO.		
	NO.		

PROFILE	SURVEYED	DATE	BY
	PLOTTED		
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	REVISIONS		
	NO. OF SHEETS		
	DATE CHECKED		
	DATE		
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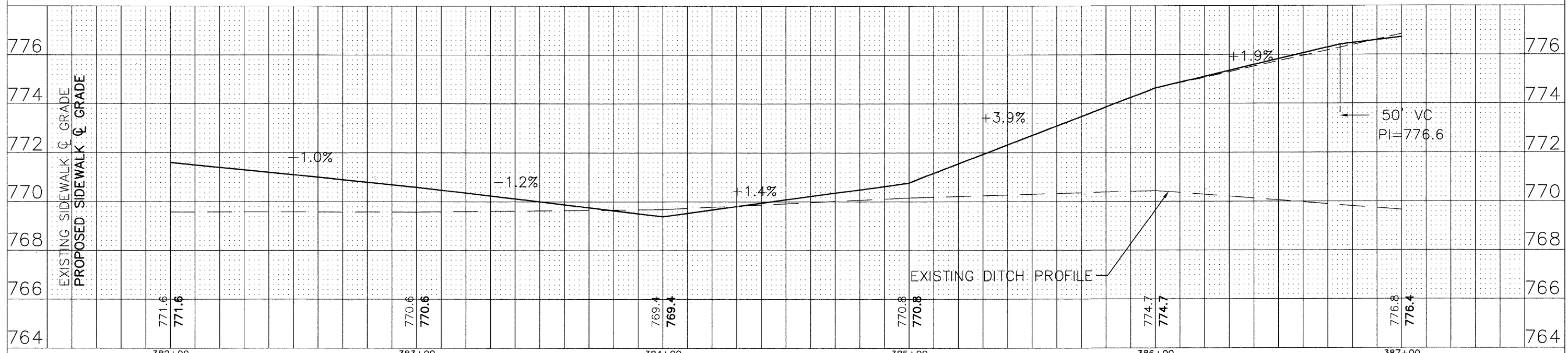
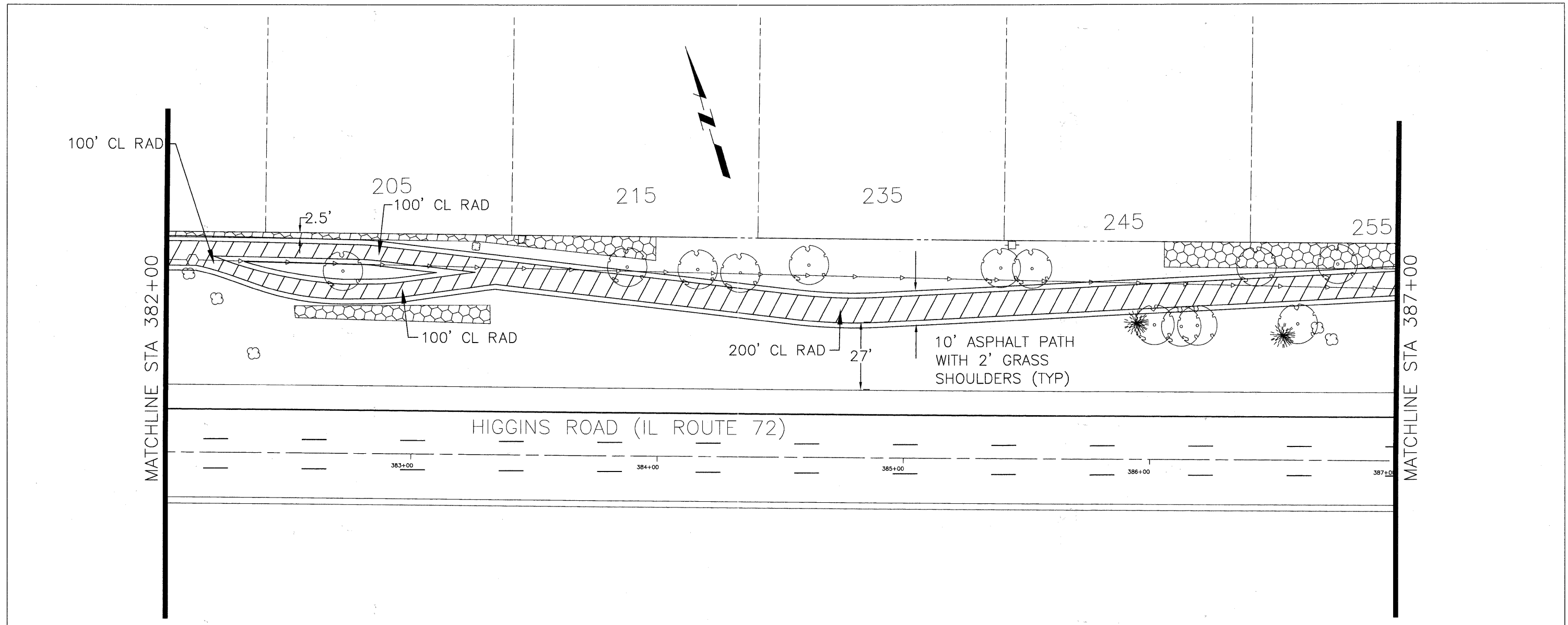


FILE NAME - Higgins Bike Path-Plan & Profile.dwg	DESIGNED -	REVISIONS -	VILLAGE OF HOFFMAN ESTATES 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800	Higgins Road Bicycle and Pedestrian Project Plan and Profile - Higgins Road	F.A.P. RTE. 341	SECTION 08-00080-00-BT	COUNTY Cook	TOTAL SHEETS 86	SHEET NO. 10
	DRAWN -	REVISIONS -		SCALE: 1" = 20'	SHEET NO. 4 OF 11 SHEETS	STA. 377+00 TO STA. 382+00	CONTRACT NO. 63233 ILLINOIS FED. AID PROJECT CMM 9003(243)		
	CHECKED -	REVISIONS -							
	DATE -	REVISIONS -							



PLAN SURVEYED	DATE
PLOTTED	BY
NOTE BOOK NO.	DATE
ALIGNED	BY
CHECKED	DATE
NO.	BY
DATE	BY

PROFILE SURVEYED	DATE
GRADES CHECKED	BY
STRUCTURE NOTATIONS CHKD	DATE
NO.	BY
DATE	BY

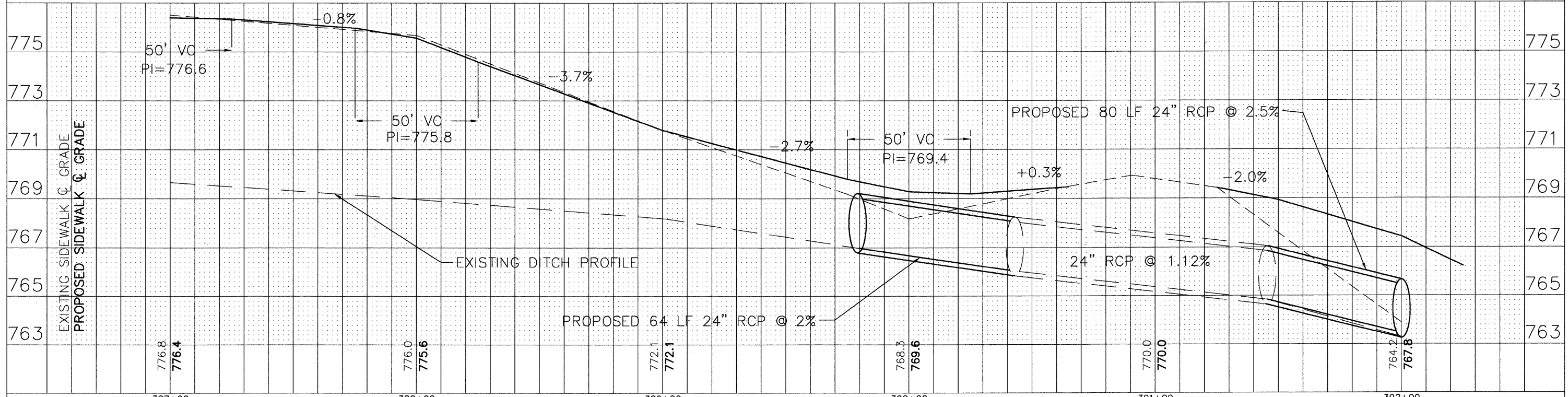
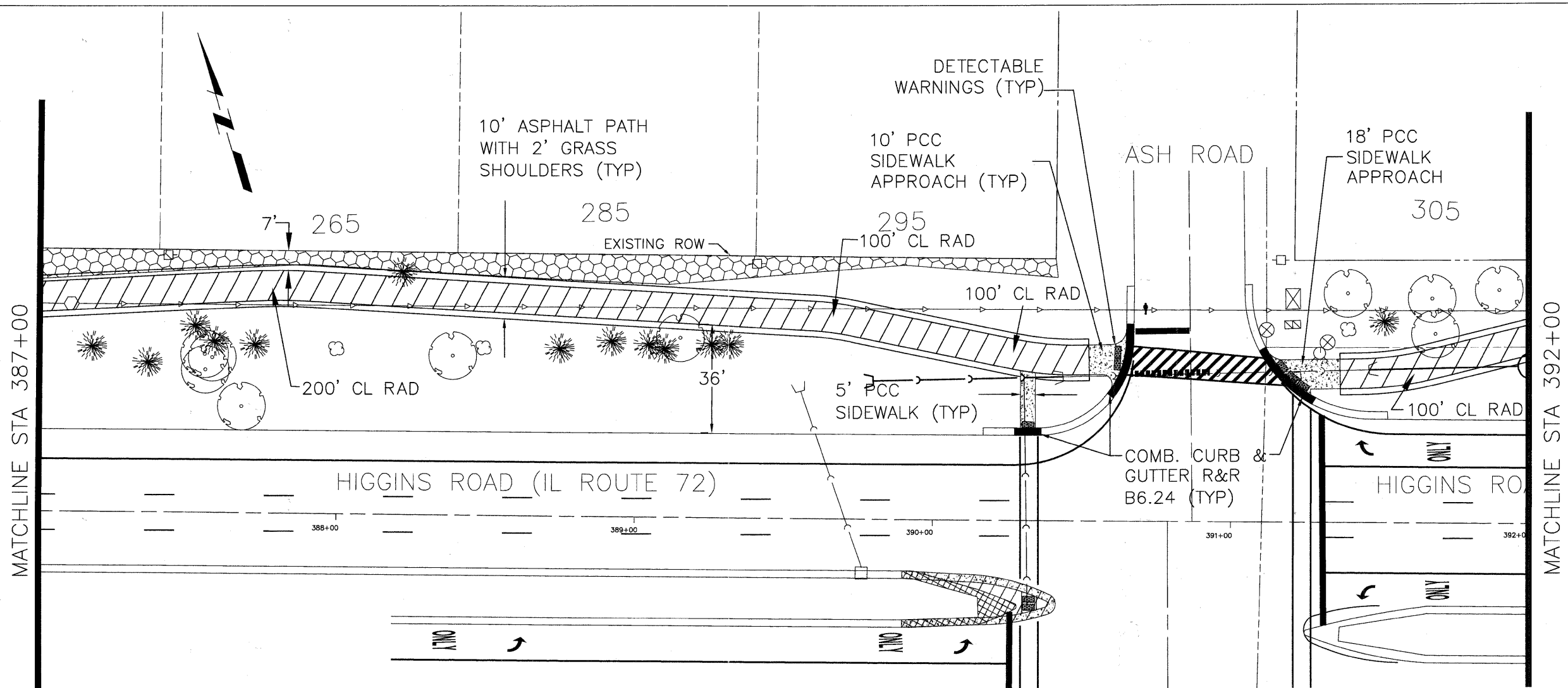


FILE NAME - Higgins Bike Path-Plan & Profile.dwg	DESIGNED -	REVISD -		VILLAGE OF HOFFMAN ESTATES 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800	Higgins Road Bicycle and Pedestrian Project Plan and Profile - Higgins Road	F.A.P. RTE. 341	SECTION 08-00080-00-BT	COUNTY Cook	TOTAL SHEETS 86	SHEET NO. 11
	DRAWN -	REVISD -		SCALE: 1" = 20'	SHEET NO. 5 OF 11 SHEETS	STA. 382+00 TO STA. 387+00	CONTRACT NO. 63233		ILLINOIS FED. AID PROJECT CMM 9003(243)	
	CHECKED -	REVISD -								
	DATE -	REVISD -								



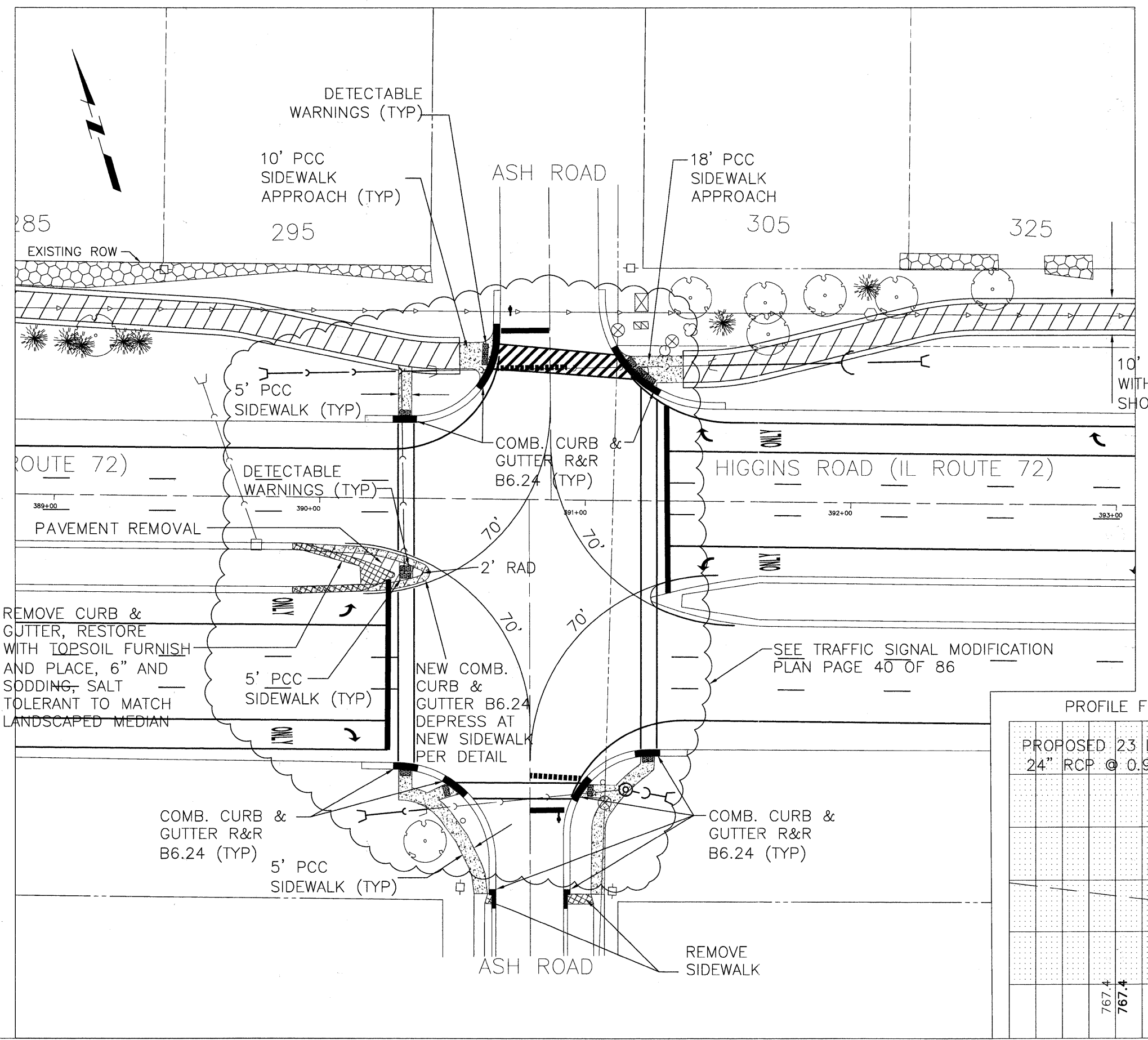
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PROFILE	SURVEYED	DATE	BY
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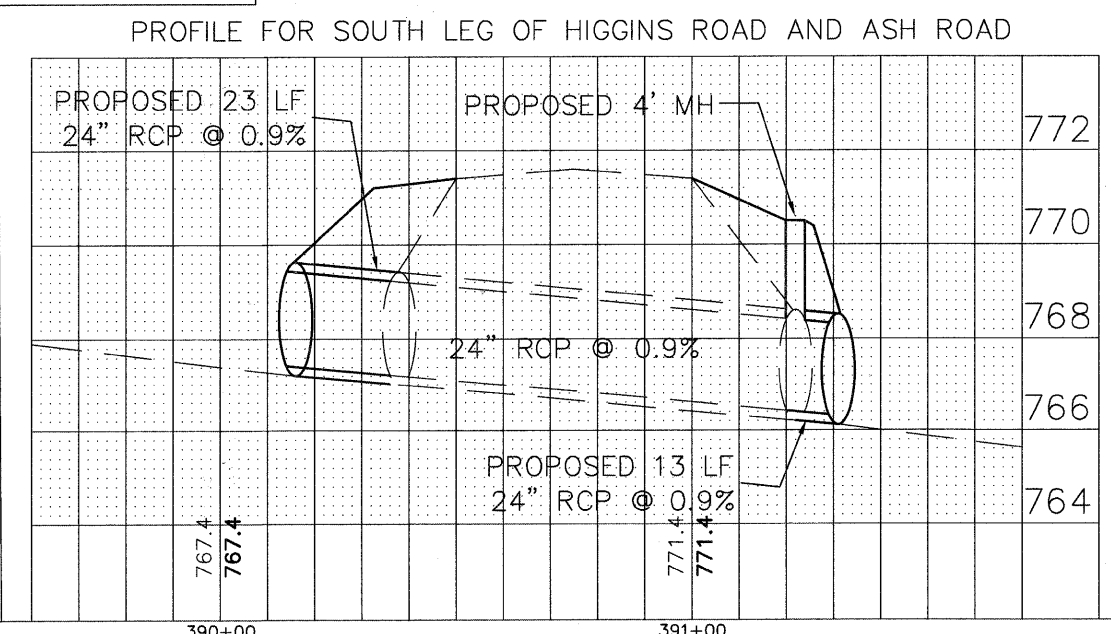


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PROFILE	DATE	BY

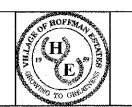


ROUTE 72) \_\_\_\_\_  
 389+00 \_\_\_\_\_ 390+00 \_\_\_\_\_  
 PAVEMENT REMOVAL \_\_\_\_\_  
 REMOVE CURB & GUTTER, RESTORE WITH TOPSOIL FURNISH AND PLACE, 6" AND SODDING, SALT TOLERANT TO MATCH LANDSCAPED MEDIAN



FILE NAME = Higgins Bike Path-Plan & Profile.dwg

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



VILLAGE OF  
**HOFFMAN ESTATES**  
 1900 Hassell Road, Hoffman Estates, IL 60169  
 Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
 Plan and Profile - Higgins Road  
 SCALE: 1" = 20' SHEET NO. 7 OF 11 SHEETS STA. 390+00 TO STA. 392+00

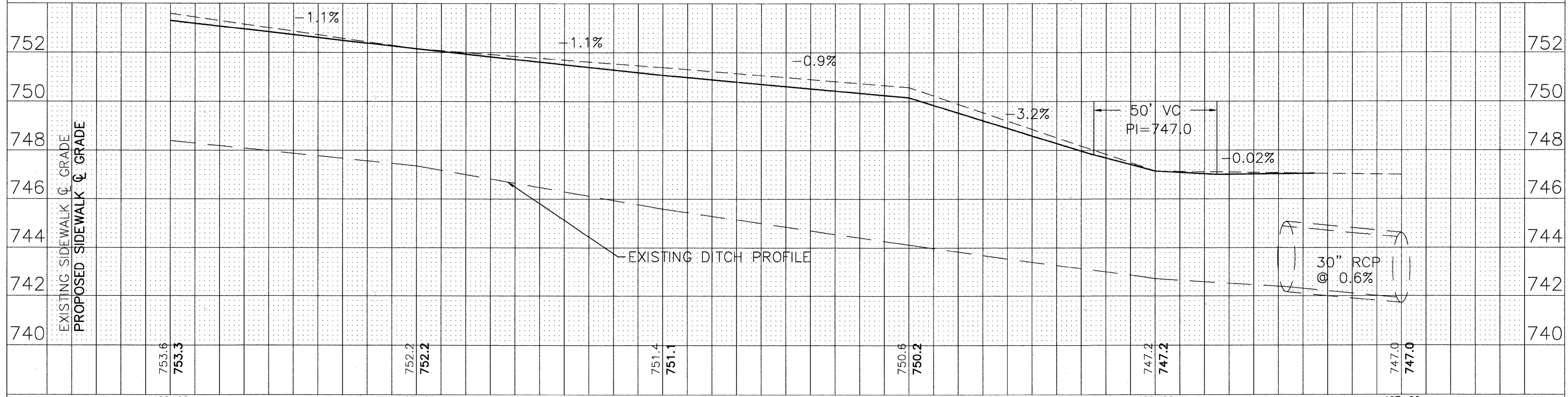
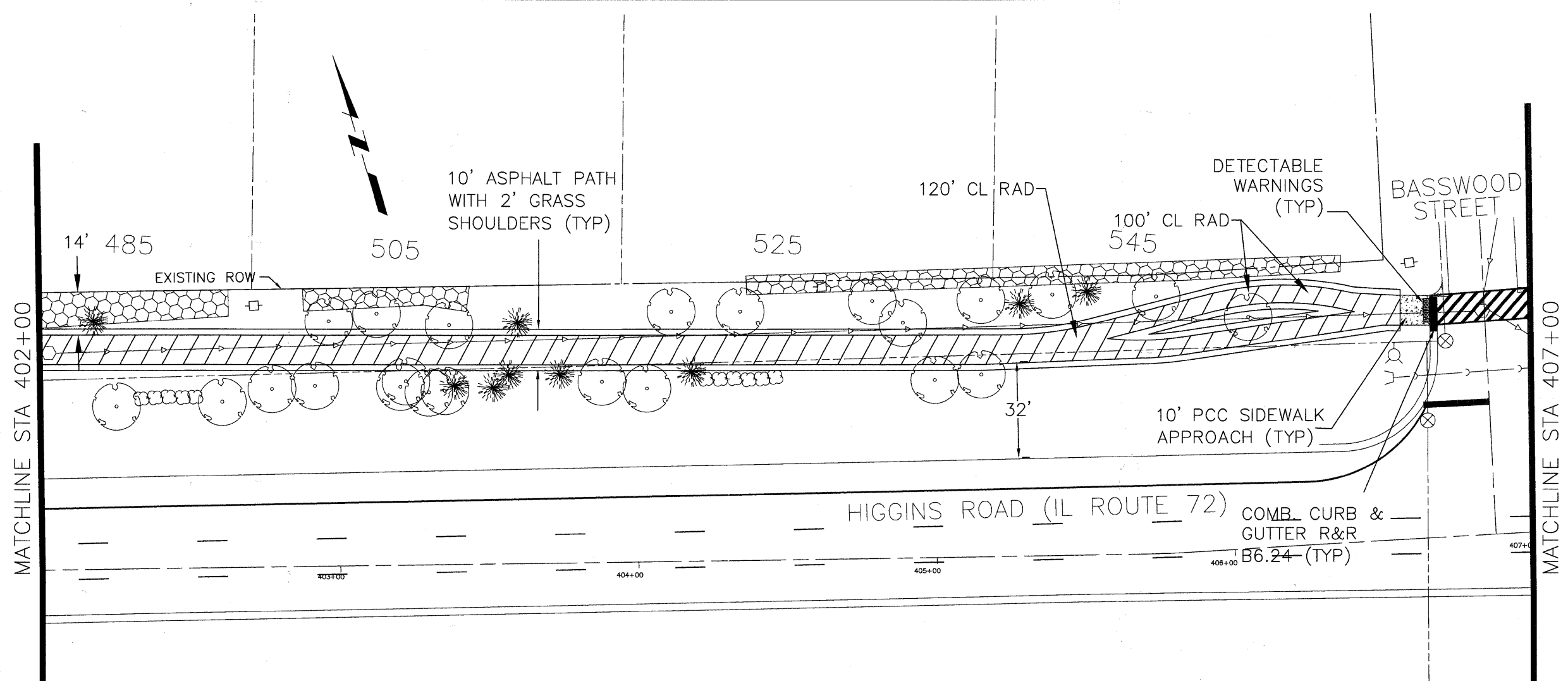
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	13
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	





PLAN	SURVEYED
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NOTE BOOK	GRADES
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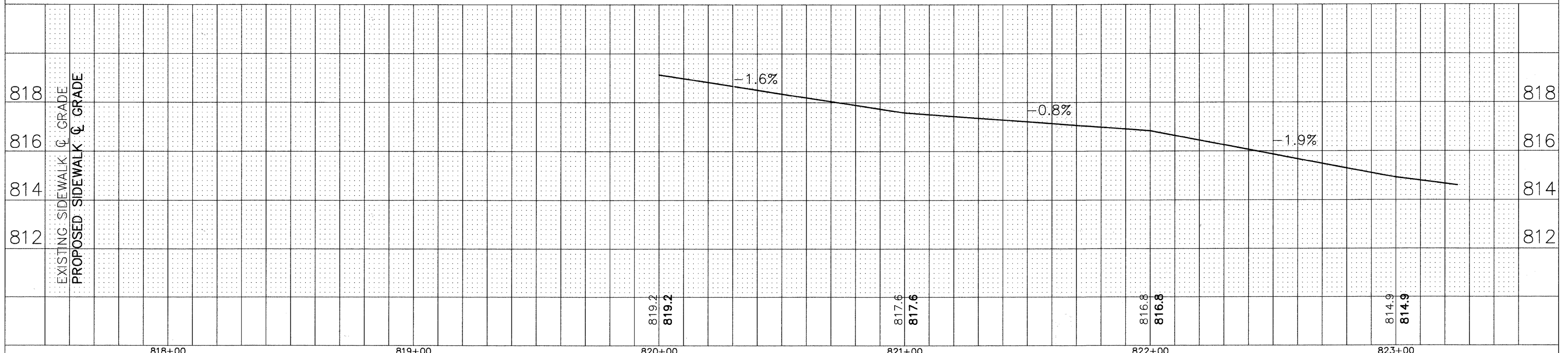
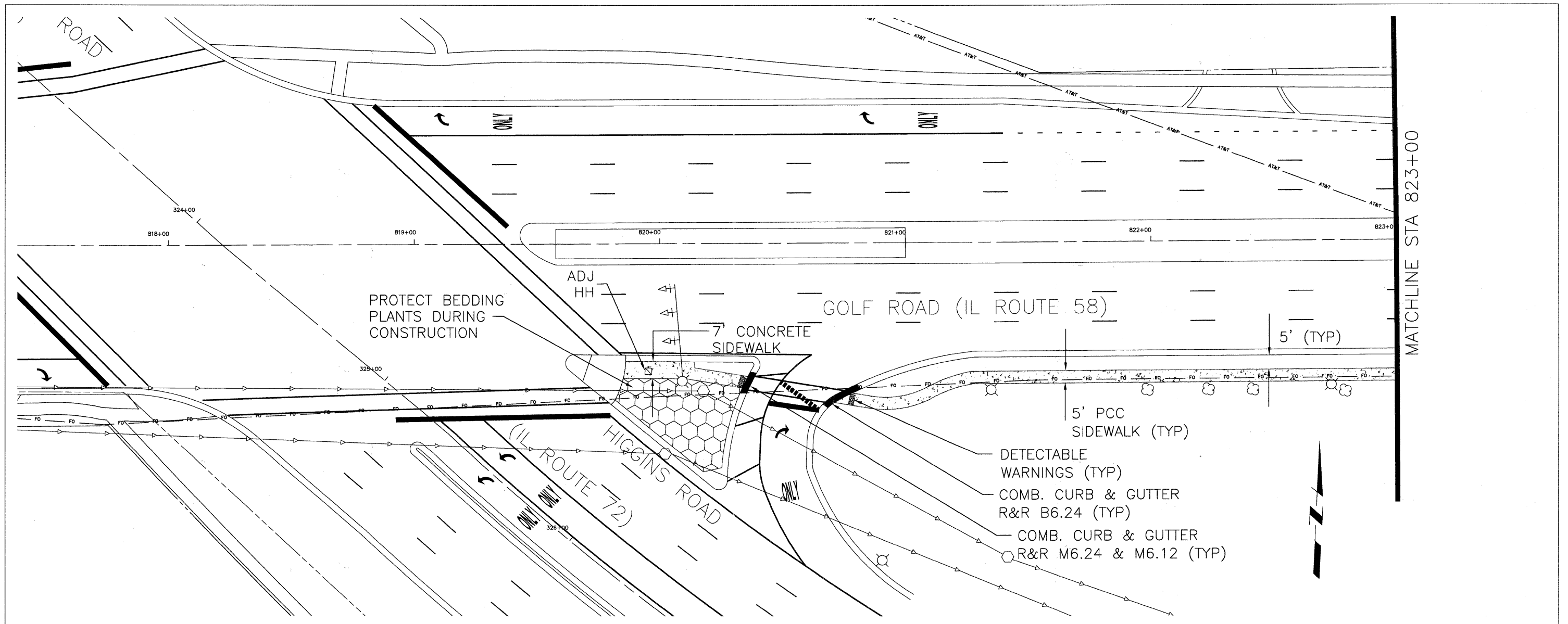






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	ALIGNMENT CHECKED
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	DATE _____
	BY _____

PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATIONS OK'D
	NO. _____
	DATE _____
	BY _____



FILE NAME = Higgins Bike Path-Plan & Profile.dwg	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	<p>VILLAGE OF HOFFMAN ESTATES 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800</p>	<p>Higgins Road Bicycle and Pedestrian Project Plan and Profile - Golf Road</p> <p>SCALE: 1" = 20'    SHEET NO. 1 OF 2 SHEETS    STA. 818+00 TO STA. 823+00</p>	<table border="1"> <tr><td>F.A.P. RTE.</td><td>SECTION</td><td>COUNTY</td><td>TOTAL SHEETS</td><td>SHEET NO.</td></tr> <tr><td>341</td><td>08-00080-00-BT</td><td>Cook</td><td>86</td><td>18</td></tr> <tr><td colspan="4"></td><td>CONTRACT NO. 63233</td></tr> <tr><td colspan="5">ILLINOIS FED. AID PROJECT CMM 9003(243)</td></tr> </table>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	341	08-00080-00-BT	Cook	86	18					CONTRACT NO. 63233	ILLINOIS FED. AID PROJECT CMM 9003(243)				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																					
341	08-00080-00-BT	Cook	86	18																					
				CONTRACT NO. 63233																					
ILLINOIS FED. AID PROJECT CMM 9003(243)																									





**STABILIZATION:** STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED AS FOLLOWS:

- WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY IS TEMPORARILY OR PERMANENTLY CEASED IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
- WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, (EG, THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.
- THE FOLLOWING PRACTICES ARE ACCEPTABLE STABILIZATION MEASURES:
  - SODDING
  - TEMPORARY SEEDING: MAY CONSIST OF SPRING OATS (100 LBS/ACRE) AND/OR WHEAT OR CEREAL RYE (150 LBS/ACRE).
  - PERMANENT SEEDING: IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS.

THE APPROPRIATE STABILIZATION MEASURE SHALL BE DETERMINED BASED ON SITE CONDITIONS AT THE TIME THE CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING BUT NOT LIMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE.

**DEWATERING OPERATIONS:** DURING DEWATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS).

**MAINTENANCE:** THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT SHOULD BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATION CONDITIONS, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN AND STANDARD SPECIFICATIONS.

**RIPRAP OUTLET PROTECTION:** RIPRAP SHOULD BE INSPECTED FOR ANY SCOUR BENEATH THE RIPRAP OR FOR STONES THAT HAVE BEEN DISLODGED. SEDIMENT ACCUMULATION IN THE OUTFALL AREA SHOULD BE REMOVED AS NEEDED.

**SILT FILTER FENCE:** SILT FENCES SHOULD BE INSPECTED REGULARLY FOR UNDERCUTTING WHERE THE FENCE MEETS THE GROUND, OVERTOPPING, AND TEARS ALONG THE LENGTH OF THE FENCE.

DEFICIENCIES SHOULD BE REPAIRED IMMEDIATELY. REMOVE ACCUMULATED SEDIMENTS FROM THE FENCE BASE WHEN THE SEDIMENT REACHED ONE-HALF THE FENCE HEIGHT. DURING FINAL STABILIZATION, PROPERLY DISPOSE OF ANY SEDIMENT THAT HAS ACCUMULATED ON THE SILT FENCE. INSTANCES WHEN AREAS OF SILT FENCE CONTINUALLY FAIL, REPLACE SILT FENCE WITH ANOTHER BMP AS SEEN FIT.

**INSPECTIONS:** THE OWNER SHALL DESIGNATE A QUALIFIED PERSONNEL TO BE RESPONSIBLE FOR SEDIMENT AND EROSION CONTROL OBSERVATION REPORTING. THIS QUALIFIED PERSONNEL SHALL MEET THE REQUIREMENTS NOTED IN THE ILR10 PERMIT CONDITIONS AND LOCAL CODES.

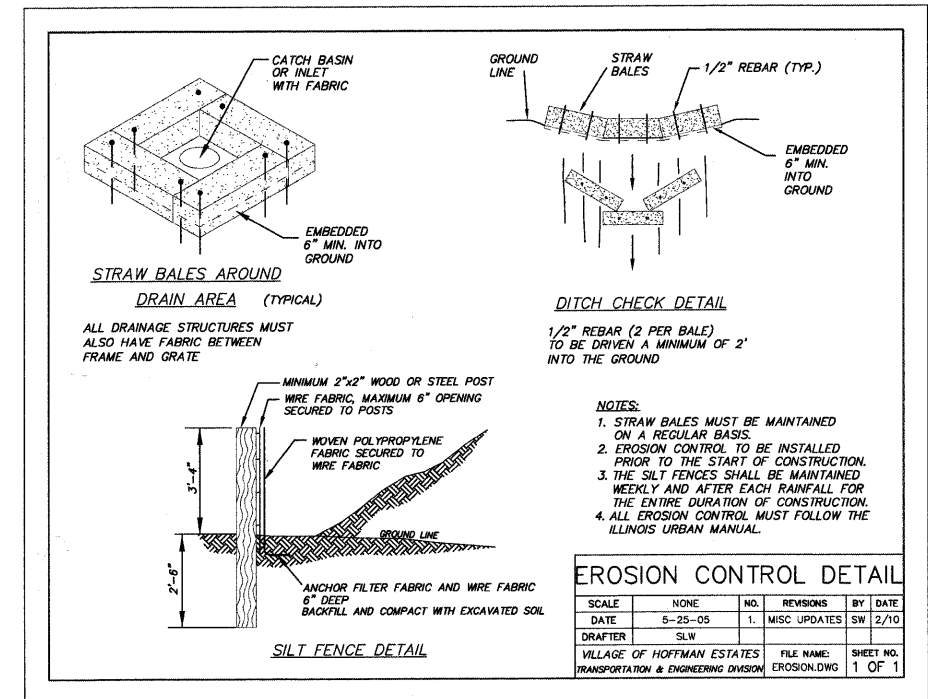
SITE OBSERVATIONS SHOULD OCCUR AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER, OR EQUIVALENT SNOWFALL. SITE OBSERVATION REPORTS SHOULD BE MAINTAINED ONSITE AS PART OF THE SWPPP.

- DISTURBED AREAS AND AREAS USED FOR THE STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE CHECKED FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. THE EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY HAVE BEEN INSTALLED AND ARE OPERATING CORRECTLY. WHERE DISCHARGE POINTS ARE ACCESSIBLE, THEY SHOULD BE CHECKED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHOULD BE CHECKED FOR OFF-SITE SEDIMENT TRACKING. ALL PUMPING OPERATIONS AND ALL OTHER POTENTIAL NON-STORM WATER DISCHARGES SHOULD BE OBSERVED.
- BASED ON THE RESULTS OF THE SITE OBSERVATION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED, AND THE POLLUTION PREVENTION MEASURES DESCRIBED IN THIS PLAN SHALL BE REVISED AS APPROPRIATE, AS SOON AS PRACTICABLE AFTER OBSERVATION. THE MODIFICATIONS, IF ANY, SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS FOLLOWING THE SITE OBSERVATION.
- A REPORT SUMMARIZING THE SCOPE OF THE OBSERVATION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE OBSERVATION, THE DATE(S) OF THE OBSERVATION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH B ABOVE SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE OF FINAL STABILIZATION OR PERMIT COVERAGE IS TERMINATED. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI.G (SIGNATORY REQUIREMENTS) OF THE ILR10 NPDES PERMIT.

- THE OWNER SHALL NOTIFY THE APPROPRIATE AGENCY FIELD OPERATIONS SECTION OFFICE BY EMAIL AT EPA.SWNONCOMP@ILLINOIS.GOV, TELEPHONE, OR FAX WITHIN 24 HOURS OF ANY INCIDENCE OF NONCOMPLIANCE FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING A SITE OBSERVATION, OR FOR VIOLATIONS OF ANY CONDITION OF THE PERMIT. THE OWNER SHALL COMPLETE AND SUBMIT WITHIN 5 DAYS AN INCIDENT OF NONCOMPLIANCE (ION) REPORT FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING AN INSPECTION CONDUCTED. SUBMISSION SHALL BE ON FORMS PROVIDED BY THE AGENCY AND INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT, WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE.

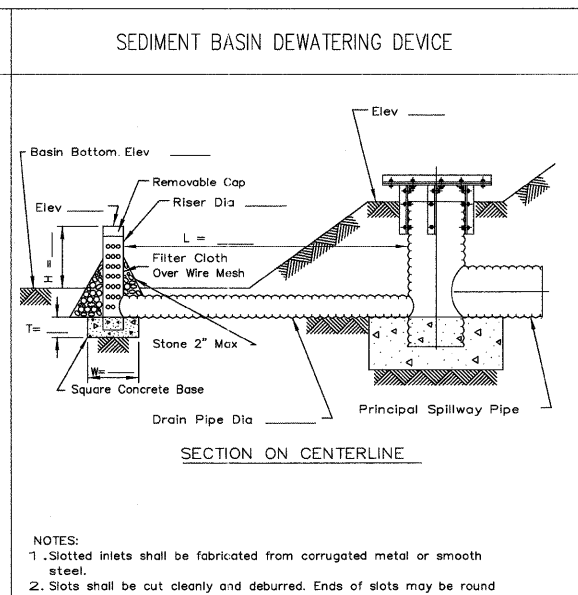
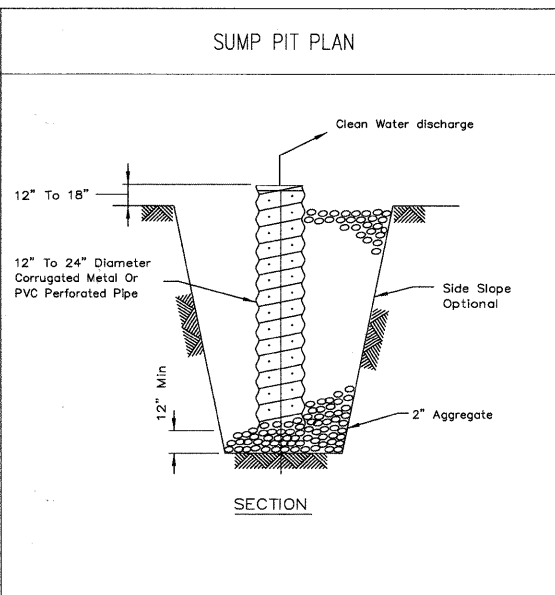
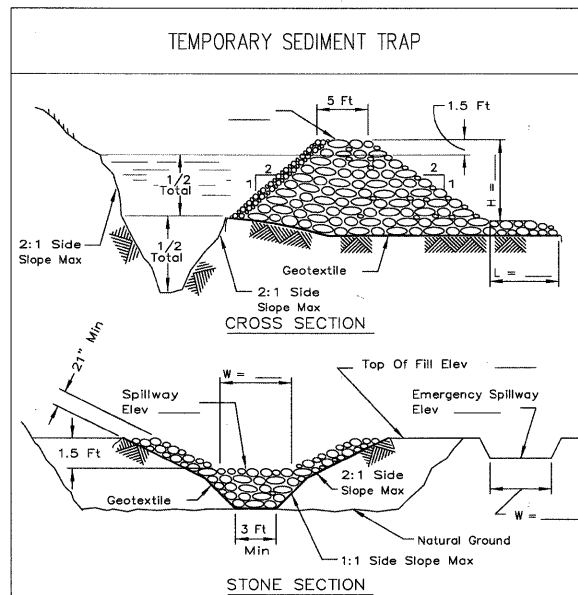
- ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY AS DEFINED IN PART VI.G OF THE ILR10 NPDES PERMIT (SIGNATORY REQUIREMENTS).
- ALL REPORTS OF NONCOMPLIANCE SHALL BE MAILED TO THE AGENCY AT THE FOLLOWING ADDRESS:  
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF WATER POLLUTION CONTROL  
COMPLIANCE ASSURANCE SECTION  
1021 NORTH GRAND AVENUE EAST  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276

**SEDIMENT CONTROL NOTES:**  
STREET CLEANING: ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY, AND CLEANED WHEN NECESSARY.  
TEMPORARY SEDIMENT STORAGE BASIN: ADDRESS

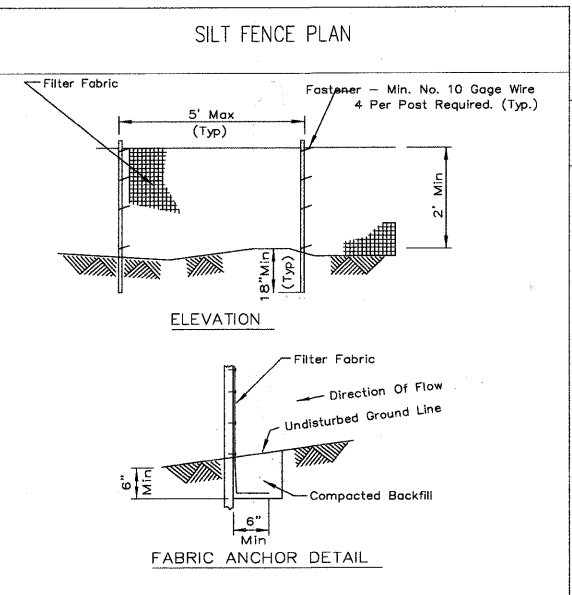


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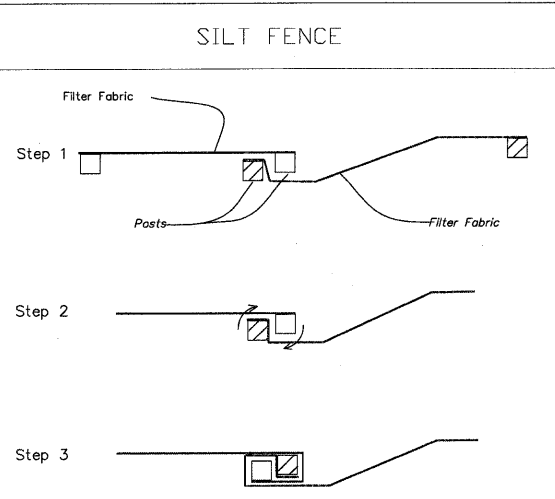
PROFILE	SURVEYED	DATE
	PLOTTED	DATE
	CHECKED	DATE
	BY	NAME
	NO.	



- NOTES:**
- Slotted inlets shall be fabricated from corrugated metal or smooth steel.
  - Slots shall be cut cleanly and deburred. Ends of slots may be round or square.
  - Grovel filter, if used, shall be pit run sand and gravel with a maximum particle diameter of 2".
  - Fabricated or standard elbow; fabricated or standard tee with the pipe or plug in upstream end; or standard tee with one end embedded in concrete.
  - Thirty 1" diameter holes per foot of riser may be substituted for the 1"x4" slots for 6" diameter risers.
  - Drain pipe shall be the same material and gauge as the principle spillway pipe.
  - Slot spacing and size shall be as shown on standard drawing IL-580.
  - Coupling bands shall be as shown on standard drawing IL-580.



- NOTES:**
- Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
  - Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 50 for woven.
  - Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.



- NOTES:**
- Place the end post of the second fence inside the end post of the first fence.
  - Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
  - Drive both posts a minimum of 18 inches into the ground and bury the flap.

REFERENCE Project	DATE	DESIGNED	DATE
Checked	DATE	Checked	DATE
Approved	DATE	Approved	DATE



STANDARD DWG. NO. IL-660  
SHEET 1 OF 1  
DATE 11-20-01

REFERENCE Project	DATE	DESIGNED	DATE
Checked	DATE	Checked	DATE
Approved	DATE	Approved	DATE



STANDARD DWG. NO. IL-650  
SHEET 1 OF 1  
DATE 8-11-94

REFERENCE Project	DATE	DESIGNED	DATE
Checked	DATE	Checked	DATE
Approved	DATE	Approved	DATE



STANDARD DWG. NO. IL-615  
SHEET 1 OF 1  
DATE 9-22-93

REFERENCE Project	DATE	DESIGNED	DATE
Checked	DATE	Checked	DATE
Approved	DATE	Approved	DATE

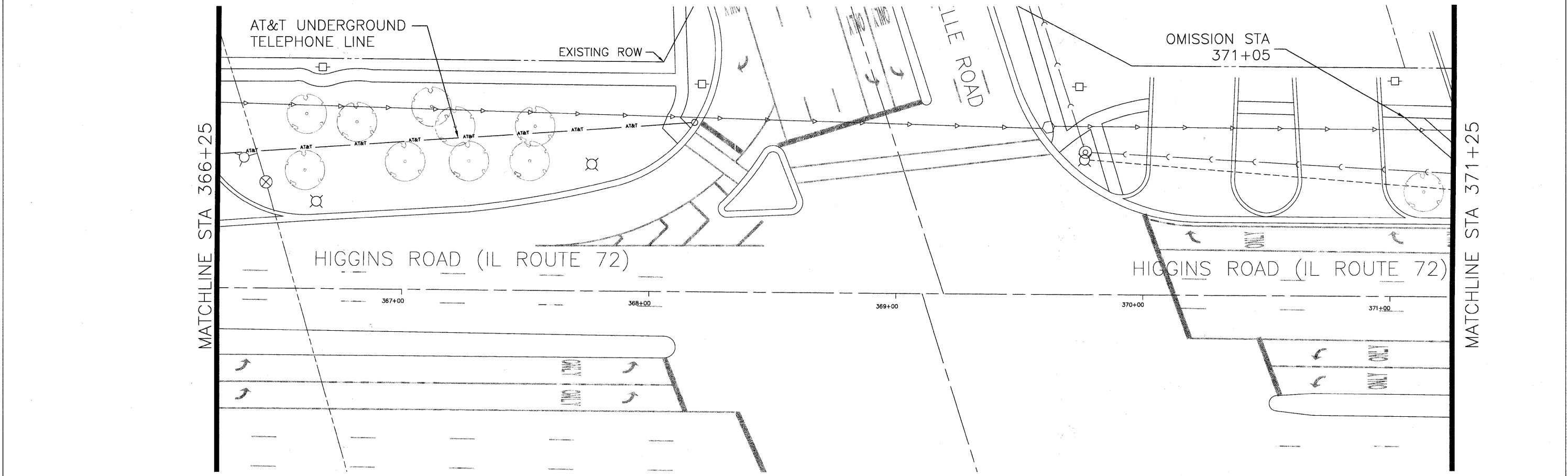
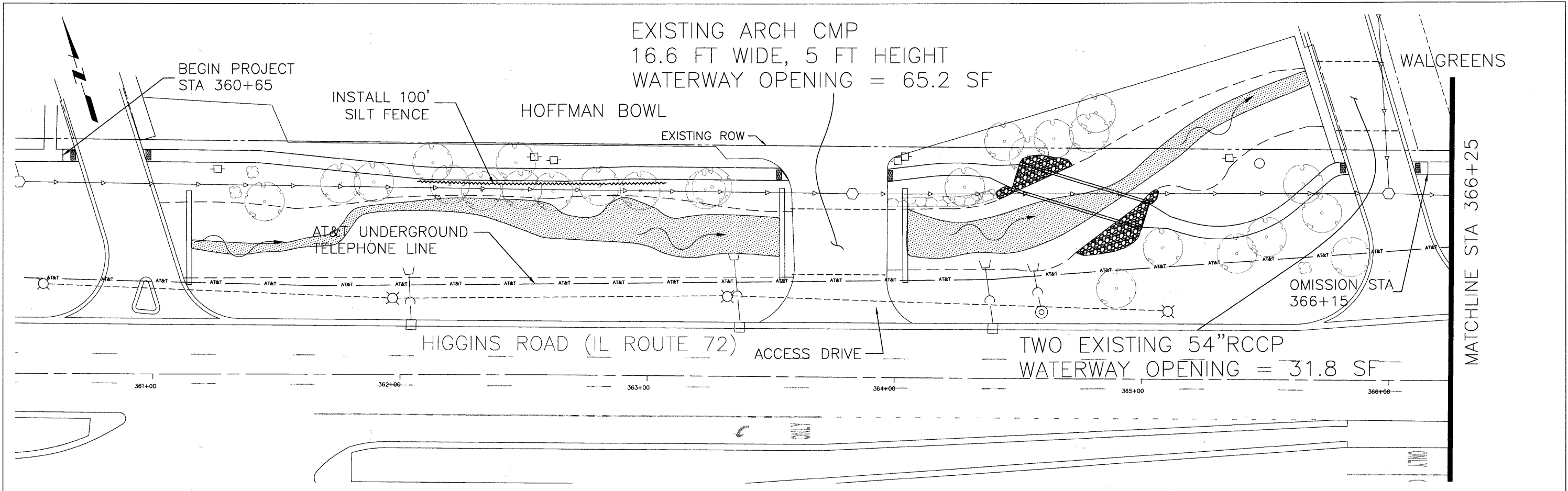


STANDARD DWG. NO. IL-620  
SHEET 1 OF 2  
DATE 11-20-01

REFERENCE Project	DATE	DESIGNED	DATE
Checked	DATE	Checked	DATE
Approved	DATE	Approved	DATE

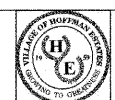


STANDARD DWG. NO. IL-620(W)  
SHEET 2 OF 2  
DATE 1-29-99



FILE NAME -  
Higgins Bike Path-Plan & Profile.dwg

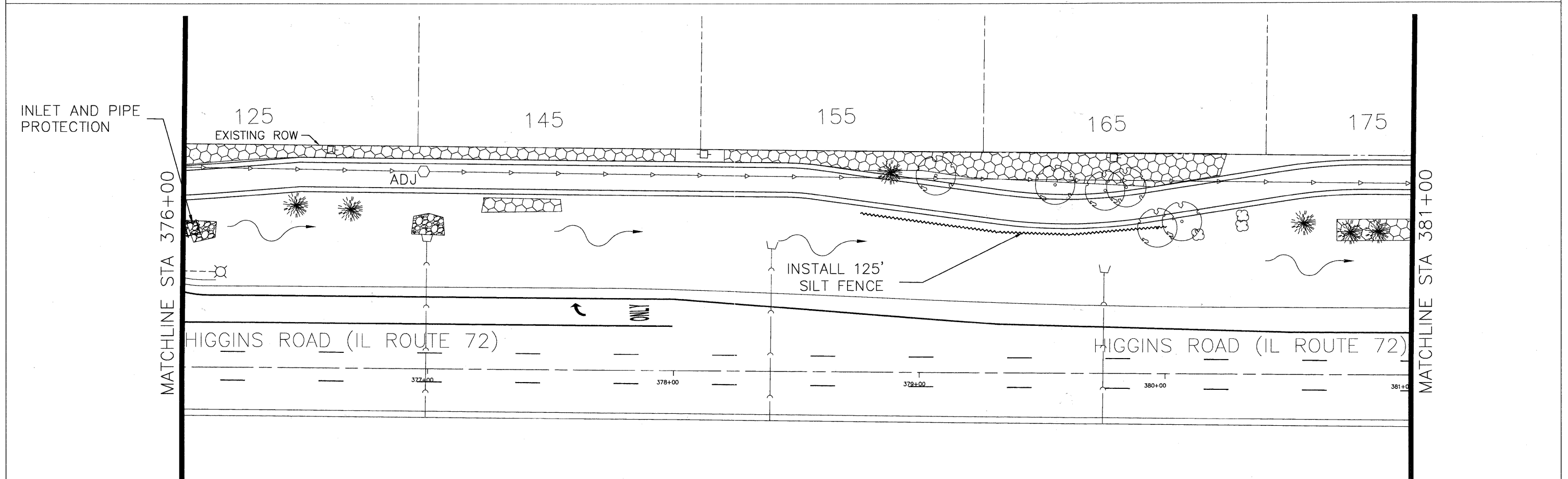
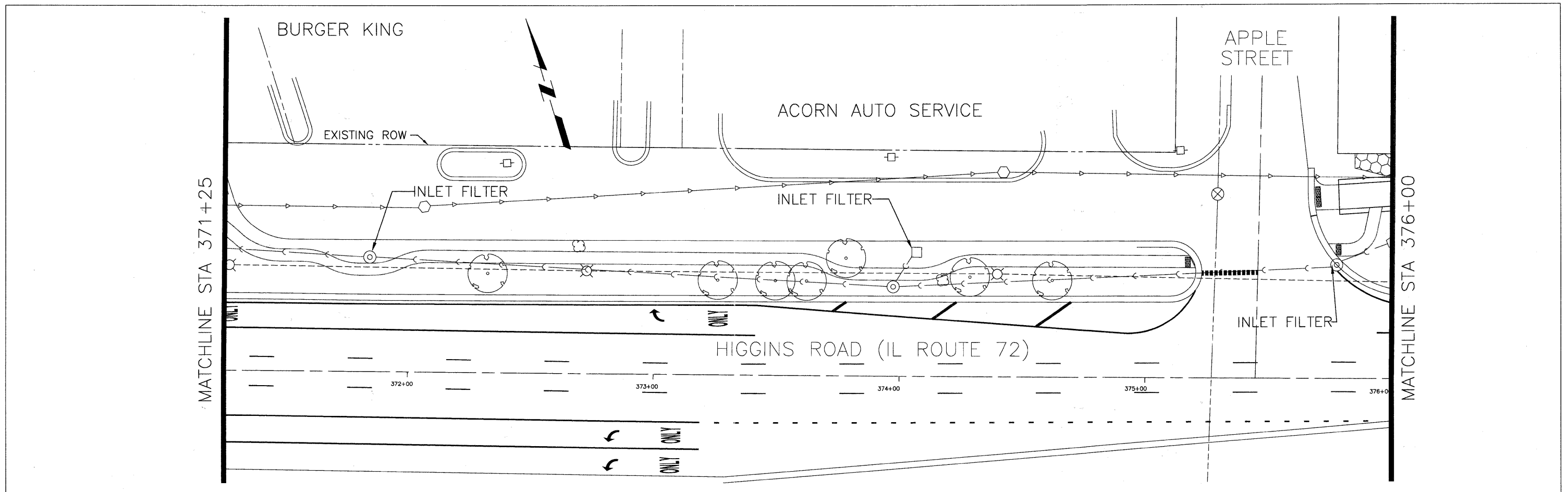
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CHECKED -	REVISED -
DATE -	REVISED -



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

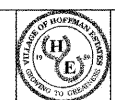
Higgins Road Bicycle and Pedestrian Project  
Drainage, Utilities & Erosion and Sediment Control  
SCALE: 1" = 20' SHEET NO. 2 OF 8 SHEETS STA. 361+00 TO STA. 371+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	21
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CHM 9003(243)	



FILE NAME -  
Higgins Bike Path--Plan & Profile.dwg

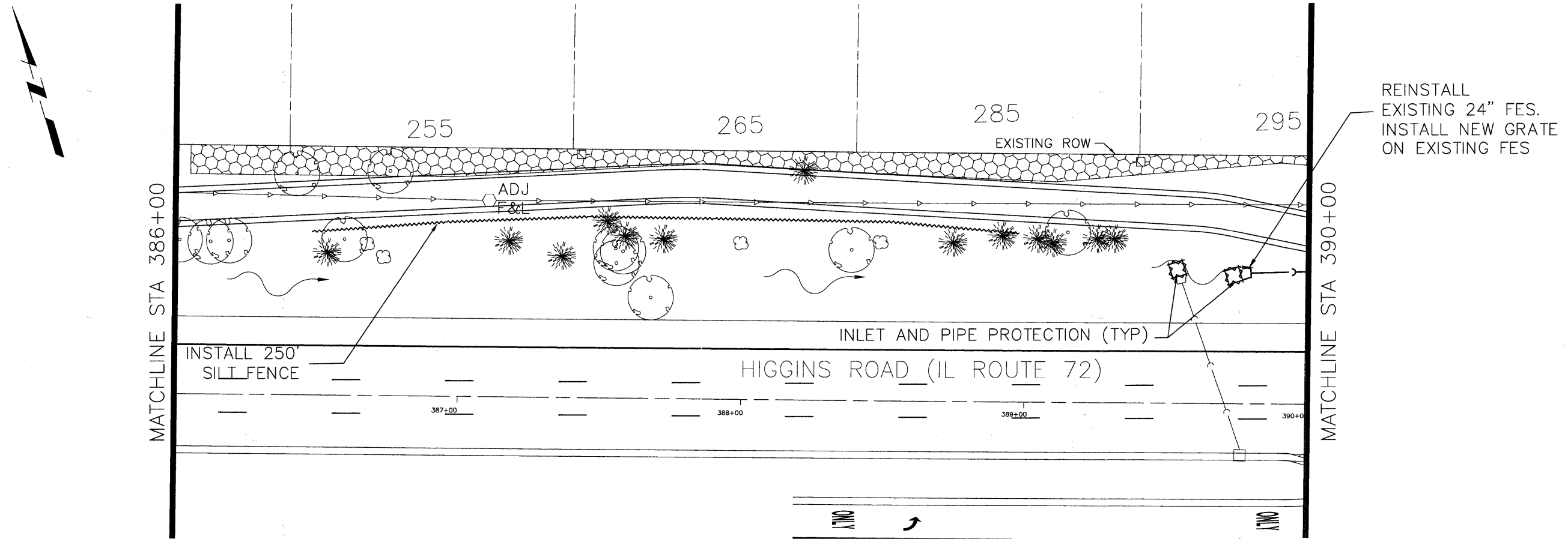
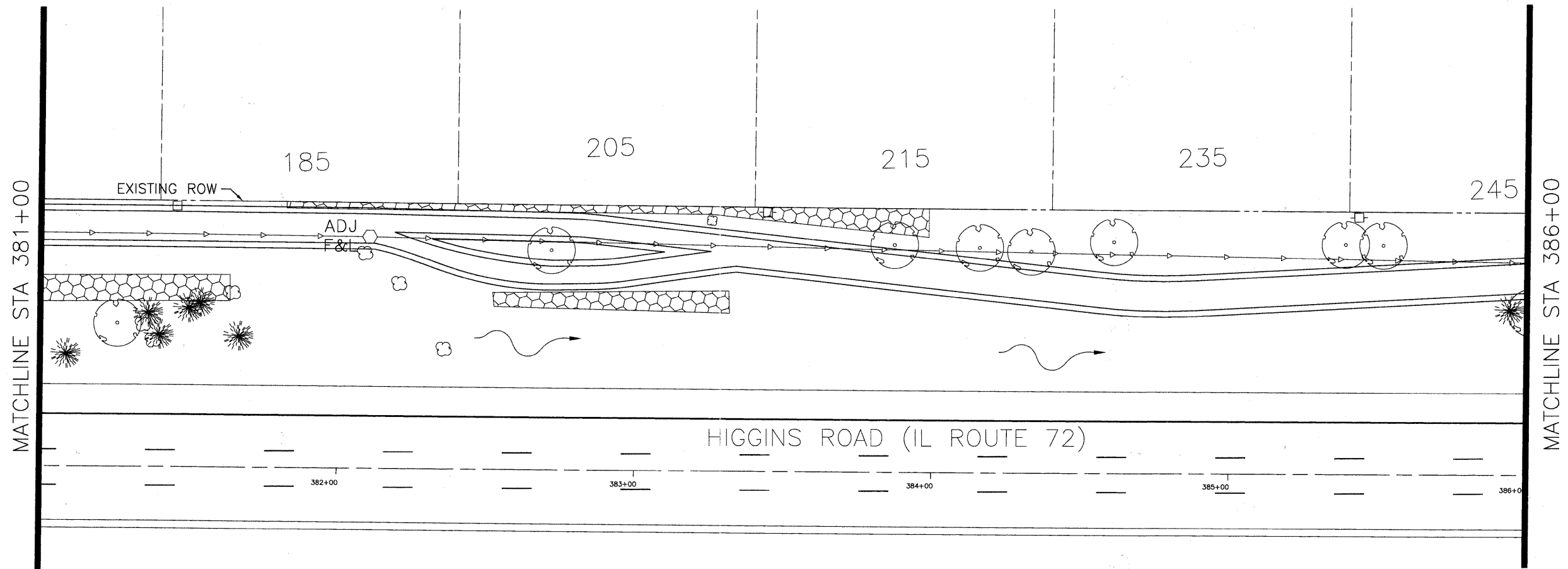
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



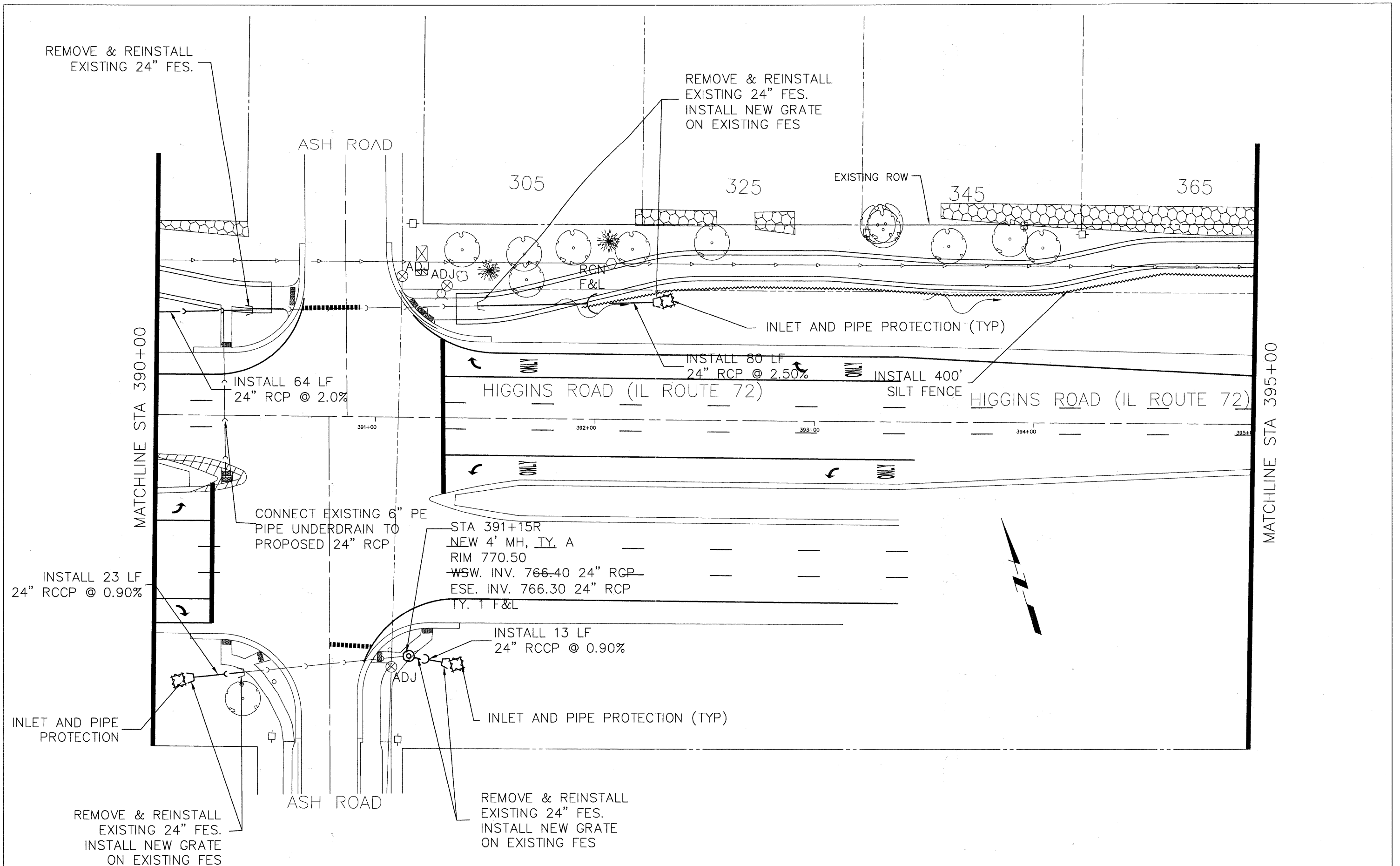
VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Drainage, Utilities & Erosion and Sediment Control  
SCALE: 1" = 20' | SHEET NO. 3 OF 8 SHEETS | STA. 371+00 TO STA. 381+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	22
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	



FILE NAME - Higgins Bike Path-Plan & Profile.dwg	DESIGNED -	REVISED -		VILLAGE OF <b>HOFFMAN ESTATES</b> 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800	Higgins Road Bicycle and Pedestrian Project		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			341	08-00080-00-BT	Cook	86	23		
	CHECKED -	REVISED -			SCALE: 1" = 20'		SHEET NO. 4 OF 8 SHEETS		CONTRACT NO. 63233		
	DATE -	REVISED -			STA. 381+00 TO STA. 390+00		ILLINOIS FED. AID PROJECT CMM 9003(243)				



FILE NAME -  
Higgins Bike Path-Plan & Profile.dwg

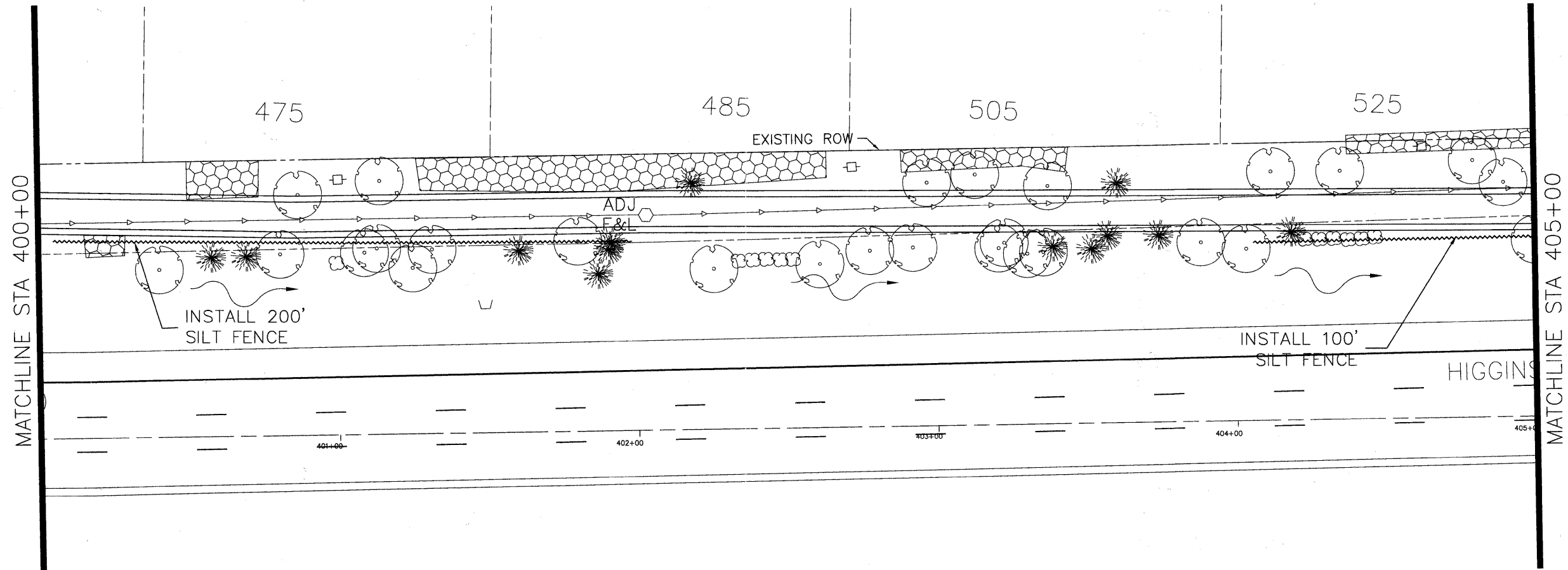
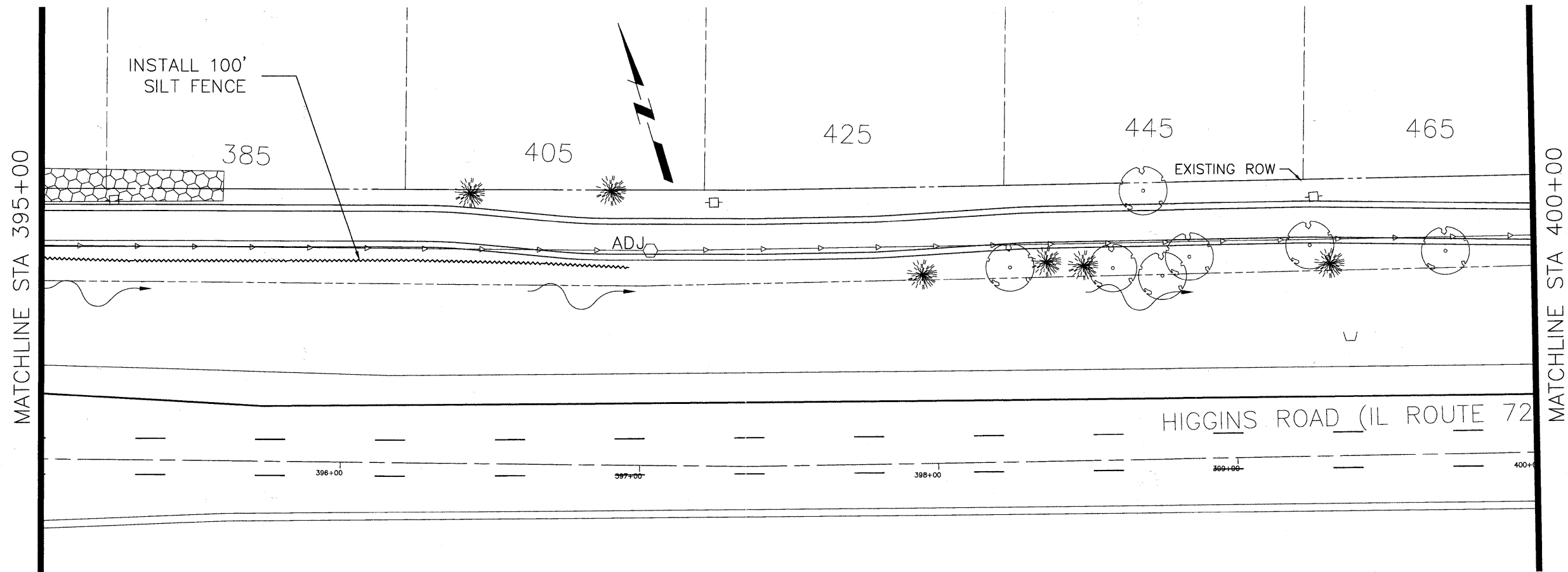
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

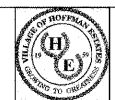
Higgins Road Bicycle and Pedestrian Project  
Drainage, Utilities & Erosion and Sediment Control  
SCALE: 1" = 20' SHEET NO. 5 OF 8 SHEETS STA. 390+00 TO STA. 395+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	24
				CONTRACT NO. 63233
ILLINOIS FED. AID PROJECT CMM 9003(243)				



FILE NAME =  
Higgins Bike Path--Plan & Profile.dwg

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

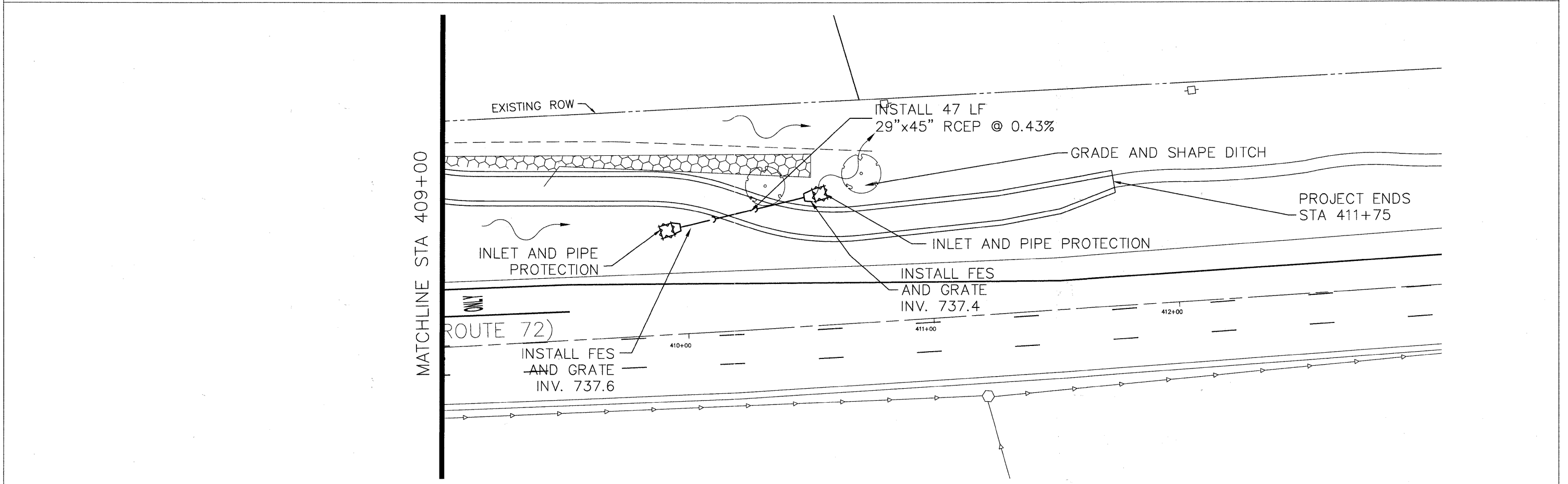
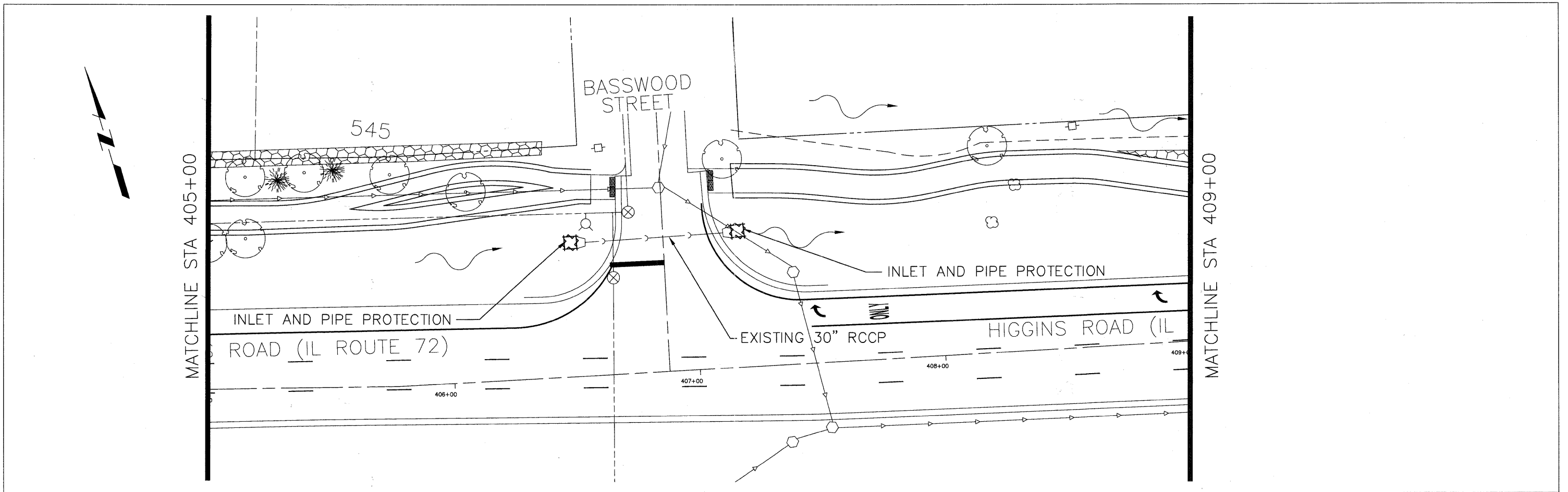


VILLAGE OF  
**HOFFMAN ESTATES**  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Drainage, Utilities & Erosion and Sediment Control  
SCALE: 1" = 20' | SHEET NO. 6 OF 8 SHEETS | STA. 395+00 TO STA. 405+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	25
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	





FILE NAME =  
Higgins Bike Path-Plan & Profile.dwg

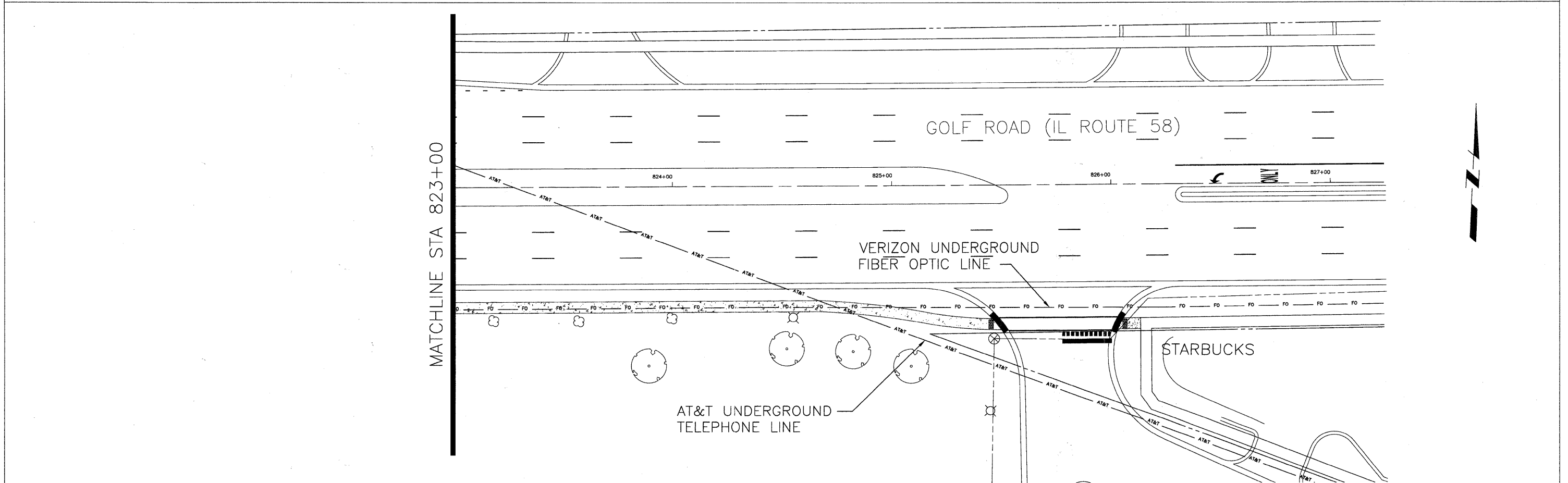
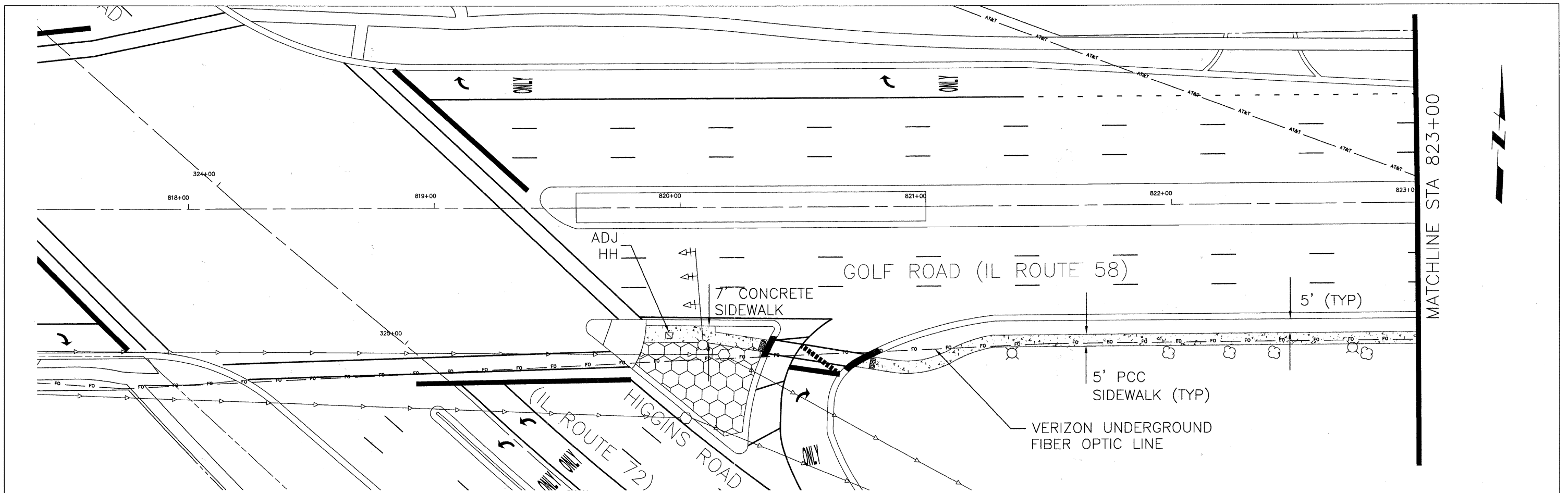
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DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



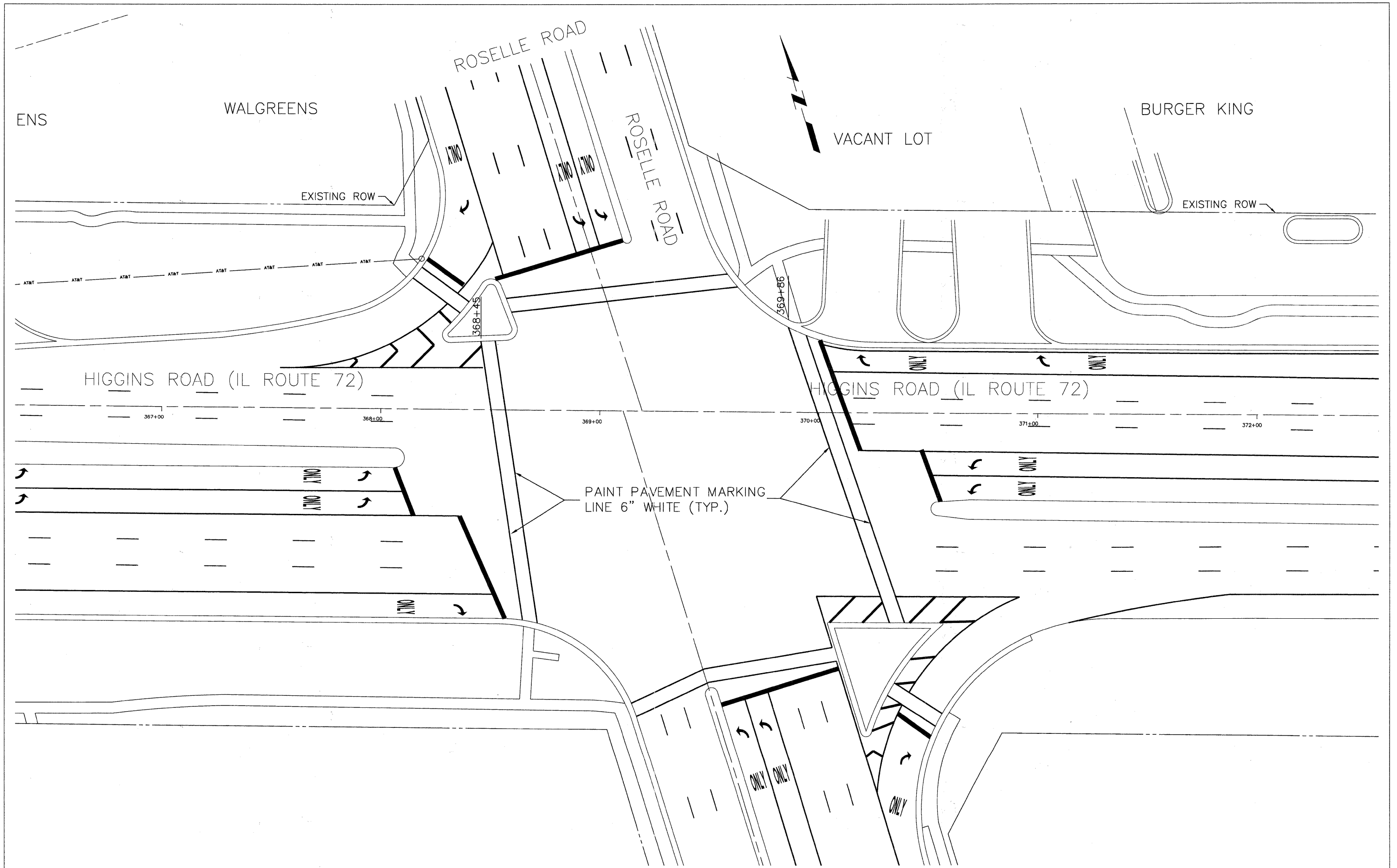
VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Drainage, Utilities & Erosion and Sediment Control  
SCALE: 1" = 20' SHEET NO. 7 OF 8 SHEETS STA. 405+00 TO STA. 412+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	26
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	

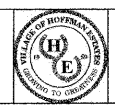


FILE NAME - Higgins Bike Path--Plan & Profile.dwg	DESIGNED -	REVISED -		VILLAGE OF HOFFMAN ESTATES		Higgins Road Bicycle and Pedestrian Project		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -		1900 Hassell Road, Hoffman Estates, IL 60169		Drainage, Utilities & Erosion and Sediment Control		341	08-00080-00-BT	Cook	86	27
	CHECKED -	REVISED -		Phone Number: 847 252-5800		SCALE: 1" = 20'		SHEET NO. 8 OF 8 SHEETS		STA. 818+00 TO STA. 827+00		CONTRACT NO. 63233
	DATE -	REVISED -										ILLINOIS FED. AID PROJECT CMM 9003(243)



FILE NAME =  
 Higgins Bike Path--Plan & Profile.dwg

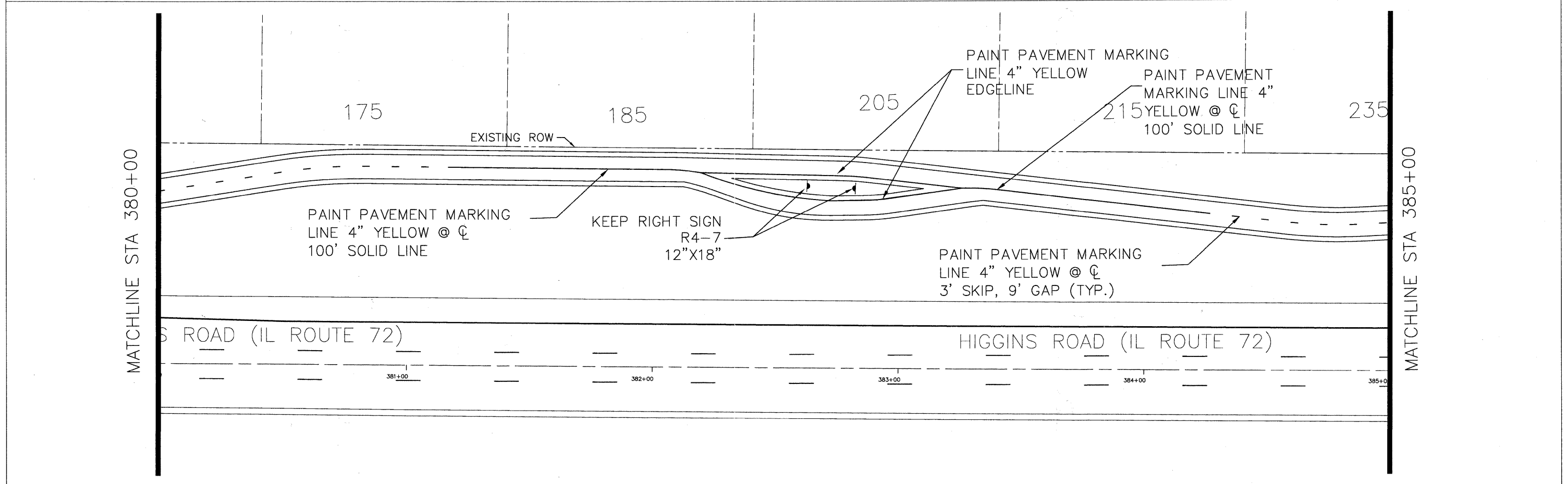
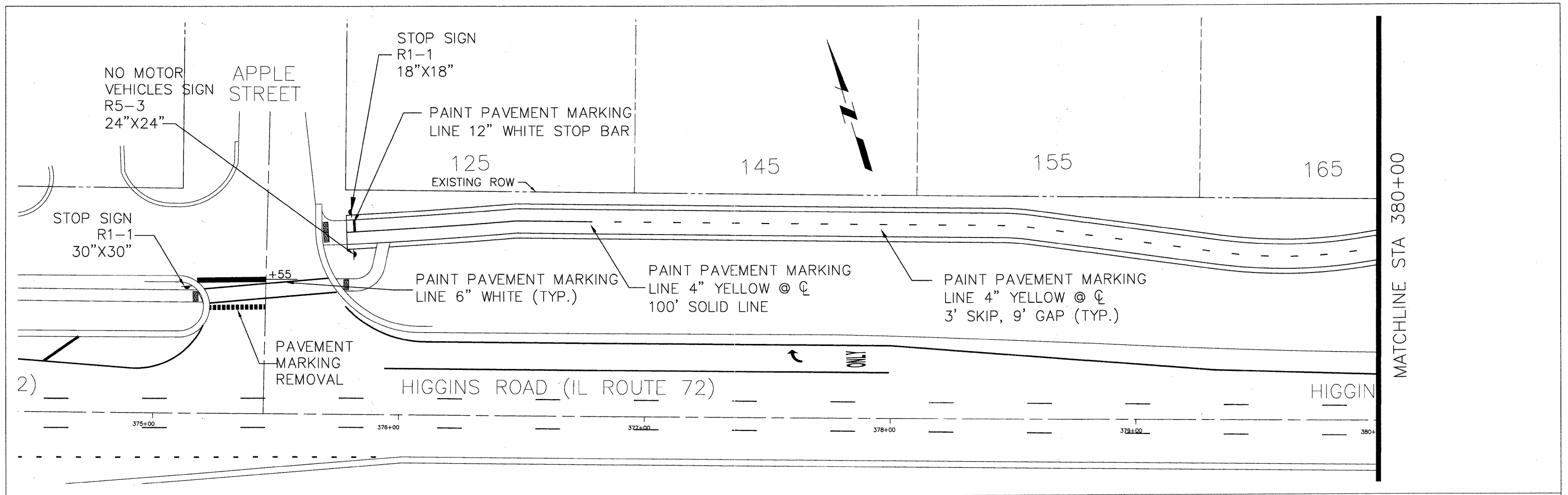
DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



VILLAGE OF  
 HOFFMAN ESTATES  
 1900 Hassell Road, Hoffman Estates, IL 60169  
 Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
 Striping and Signage  
 SCALE: 1" = 20'  
 SHEET NO. 1 OF 7 SHEETS  
 STA. 367+00 TO STA. 372+00

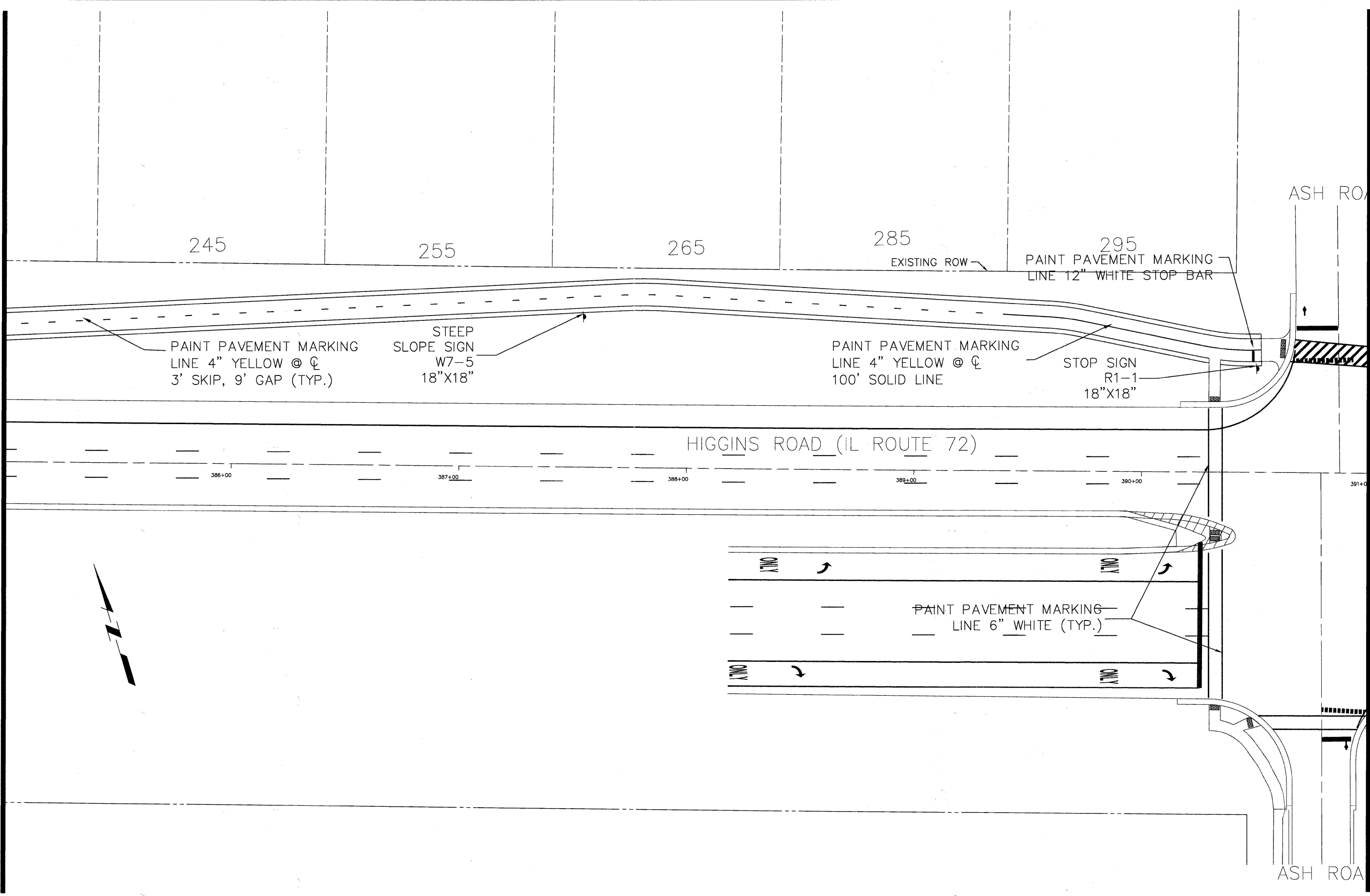
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	28
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	



FILE NAME = Higgins Bike Path-Plan & Profile.dwg	DESIGNED -	REVISED -		<b>VILLAGE OF HOFFMAN ESTATES</b> 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800	Higgins Road Bicycle and Pedestrian Project Striping and Signage	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -				341	08-00080-00-BT	Cook	86	29
	CHECKED -	REVISED -				CONTRACT NO. 63233				
	DATE -	REVISED -				ILLINOIS FED. AID PROJECT CMM 9003(243)				
SCALE: 1" = 20'						SHEET NO. 2 OF 7 SHEETS		STA. 375+00 TO STA. 385+00		

MATCHLINE STA 385+00

MATCHLINE STA 391+00



245

255

265

285

295

EXISTING ROW

PAINT PAVEMENT MARKING  
LINE 12" WHITE STOP BAR

PAINT PAVEMENT MARKING  
LINE 4" YELLOW @  $\text{C}$   
3' SKIP, 9' GAP (TYP.)

STEEP  
SLOPE SIGN  
W7-5  
18"X18"

PAINT PAVEMENT MARKING  
LINE 4" YELLOW @  $\text{C}$   
100' SOLID LINE

STOP SIGN  
R1-1  
18"X18"

HIGGINS ROAD (IL ROUTE 72)

386+00

387+00

388+00

389+00

390+00

391+00

ONLY

ONLY

PAINT PAVEMENT MARKING  
LINE 6" WHITE (TYP.)

ONLY

ONLY

ASH ROAD

ASH ROAD

FILE NAME -  
Higgins Bike Path-Plan & Profile.dwg

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

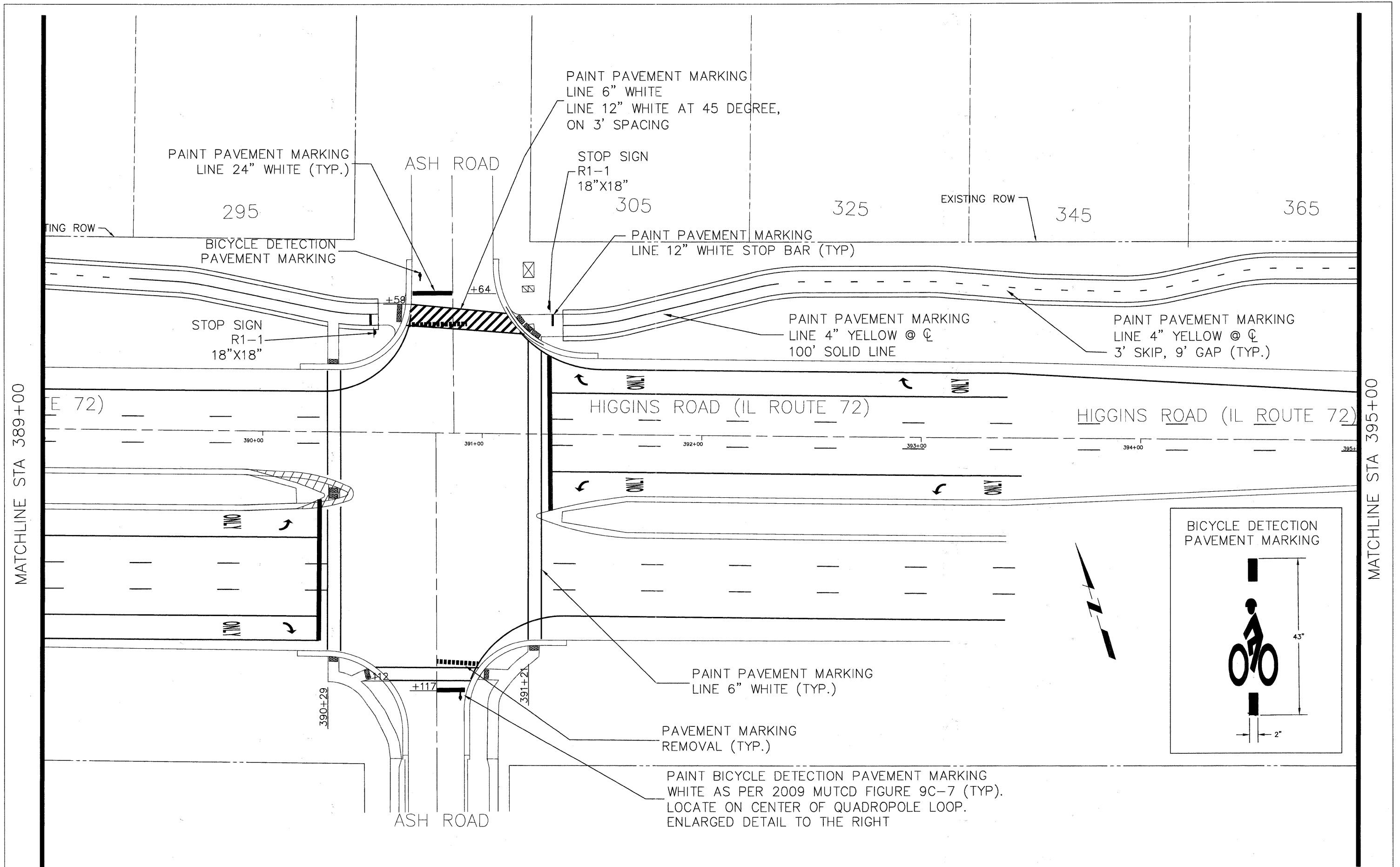


VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Striping and Signage

SCALE: 1" = 20' SHEET NO. 3 OF 7 SHEETS STA. 385+00 TO STA. 391+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	30
				CONTRACT NO. 63233
ILLINOIS FED. AID PROJECT CMM 9003(243)				



PAINT PAVEMENT MARKING  
LINE 24" WHITE (TYP.)

ASH ROAD

PAINT PAVEMENT MARKING  
LINE 6" WHITE  
LINE 12" WHITE AT 45 DEGREE,  
ON 3' SPACING

STOP SIGN  
R1-1  
18"X18"

EXISTING ROW

295

305

325

345

365

BICYCLE DETECTION  
PAVEMENT MARKING

PAINT PAVEMENT MARKING  
LINE 12" WHITE STOP BAR (TYP)

STOP SIGN  
R1-1  
18"X18"

PAINT PAVEMENT MARKING  
LINE 4" YELLOW @  $\phi$   
100' SOLID LINE

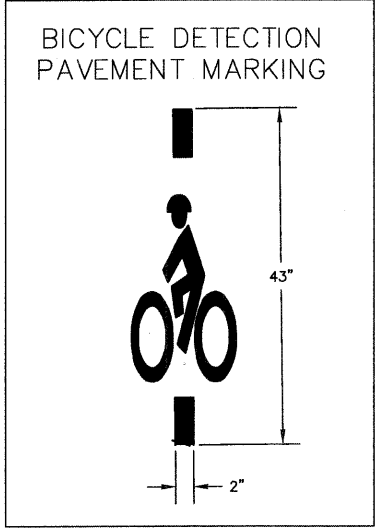
PAINT PAVEMENT MARKING  
LINE 4" YELLOW @  $\phi$   
3' SKIP, 9' GAP (TYP.)

HIGGINS ROAD (IL ROUTE 72)

HIGGINS ROAD (IL ROUTE 72)

MATCHLINE STA 389+00

MATCHLINE STA 395+00



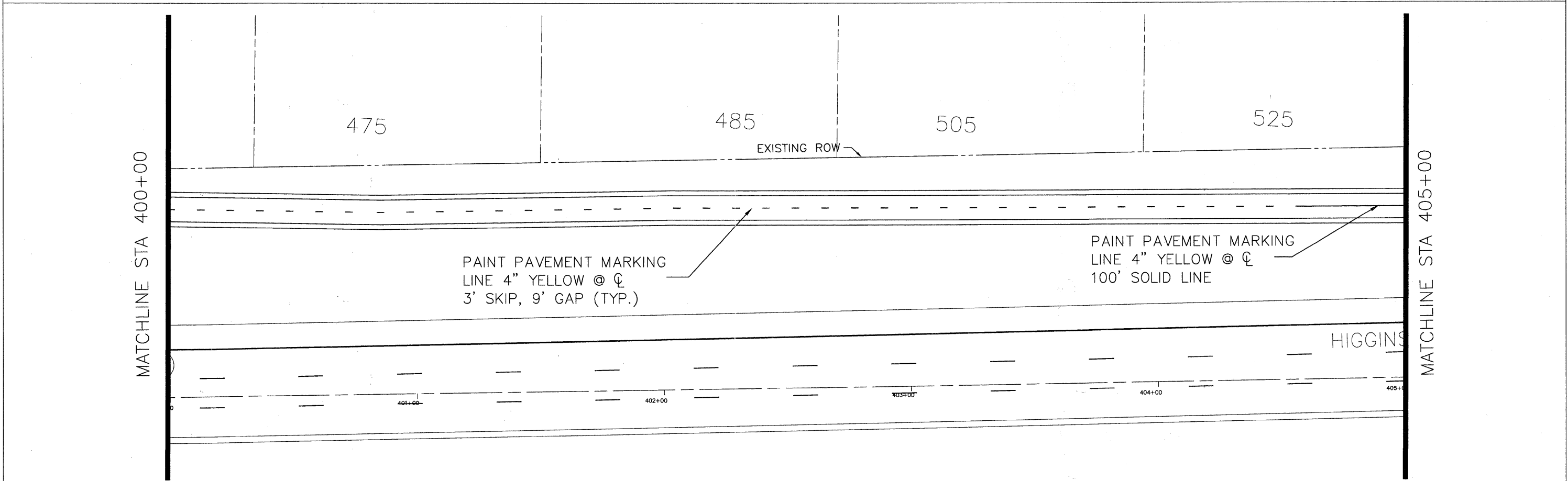
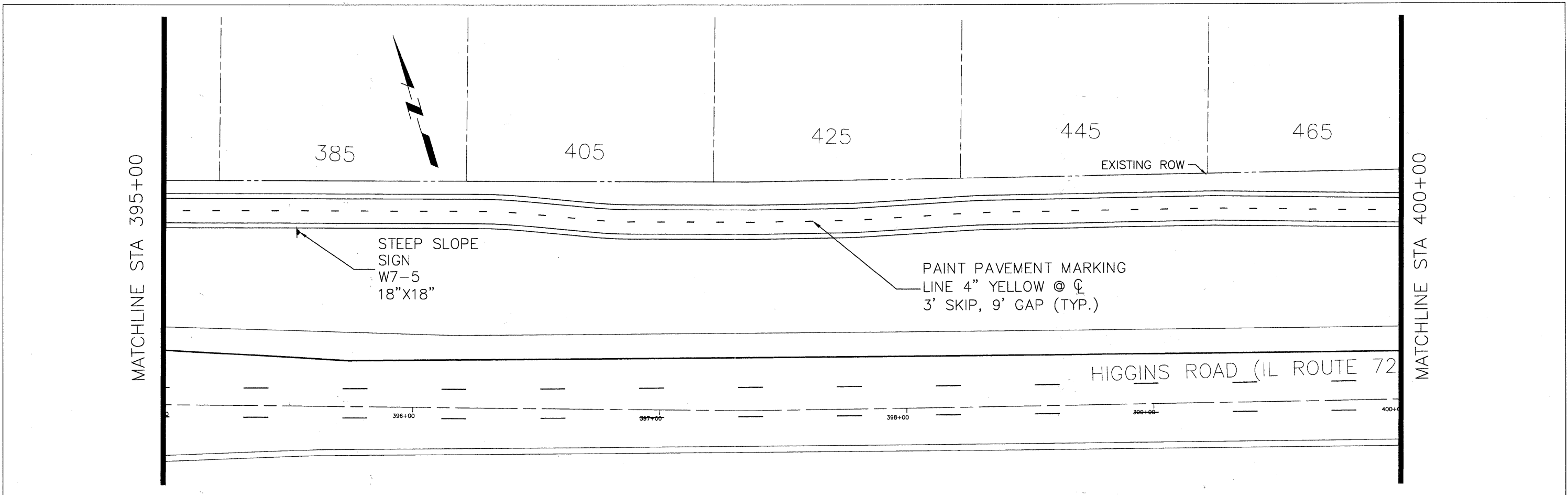
PAINT PAVEMENT MARKING  
LINE 6" WHITE (TYP.)


PAVEMENT MARKING  
REMOVAL (TYP.)

PAINT BICYCLE DETECTION PAVEMENT MARKING  
WHITE AS PER 2009 MUTCD FIGURE 9C-7 (TYP).  
LOCATE ON CENTER OF QUADROPOLE LOOP.  
ENLARGED DETAIL TO THE RIGHT

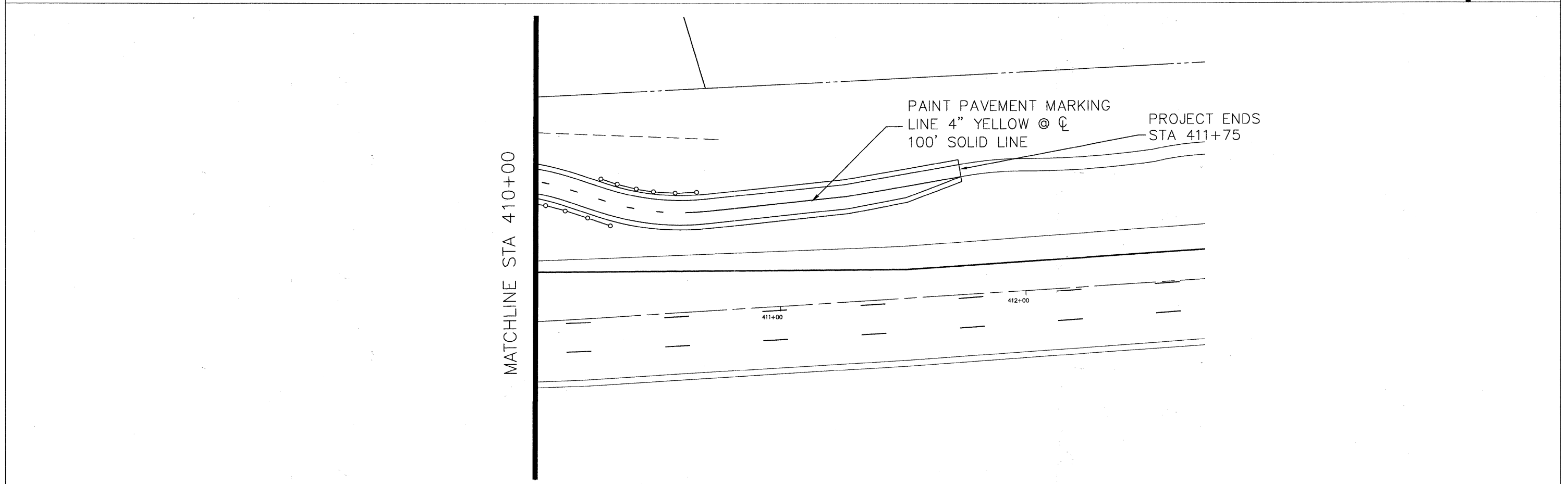
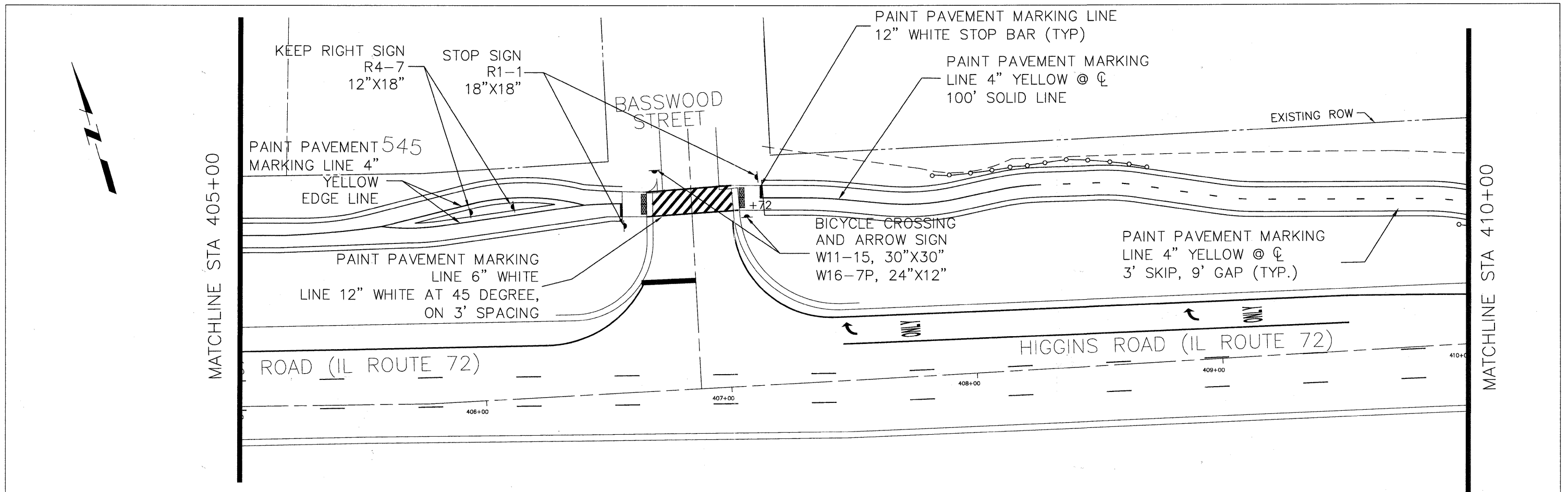
ASH ROAD

FILE NAME - Higgins Bike Path-Plan & Profile.dwg	DESIGNED -	REVISED -		VILLAGE OF <b>HOFFMAN ESTATES</b> 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800	Higgins Road Bicycle and Pedestrian Project Striping and Signage	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -				341	08-00080-00-BT	Cook	86	31
	CHECKED -	REVISED -				CONTRACT NO. 6.3233		ILLINOIS FED. AID PROJECT CMM 9003(243)		
	DATE -	REVISED -			SCALE: 1" = 20'	SHEET NO. 4 OF 7 SHEETS		STA.	TO STA.	



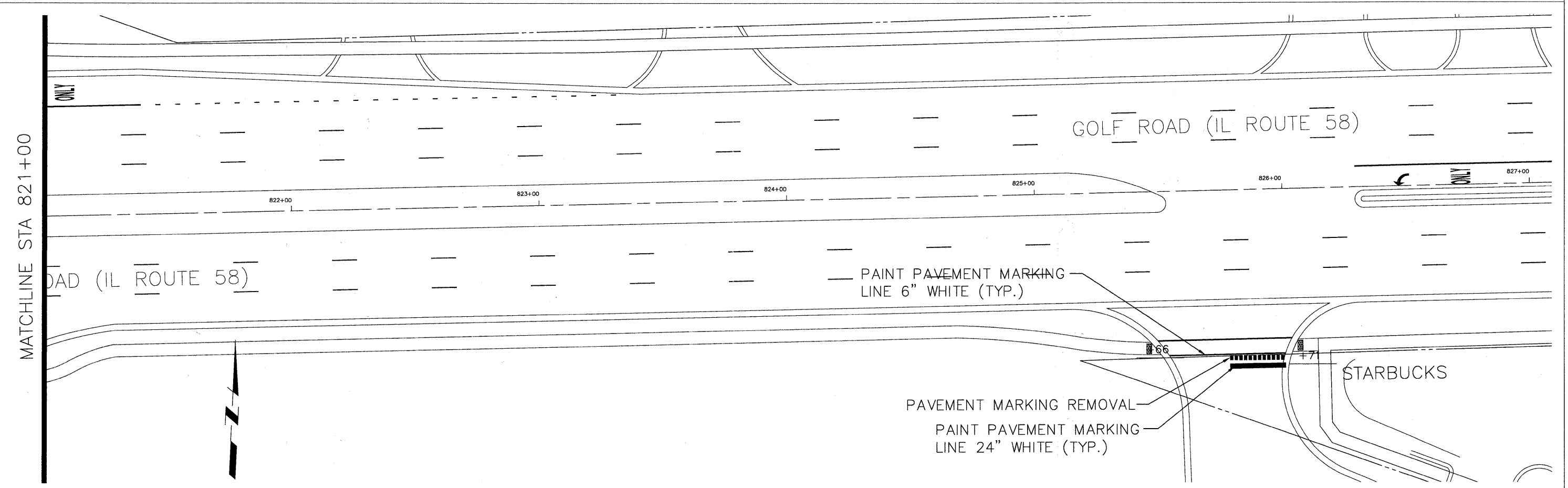
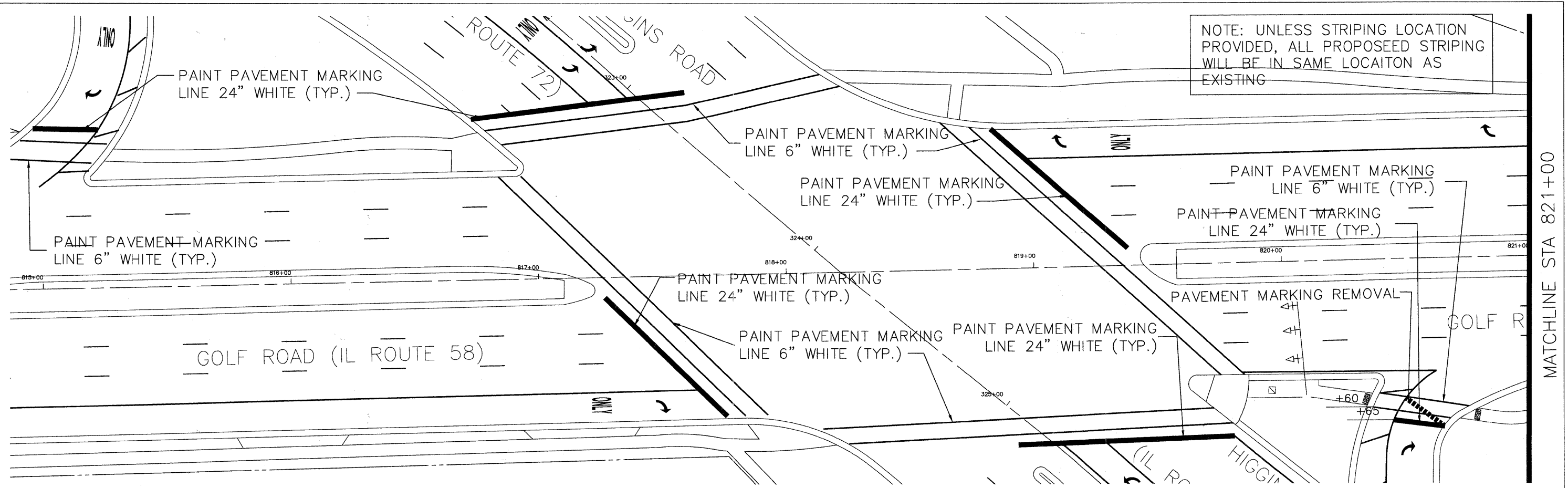
FILE NAME = Higgins Bike Path--Plan & Profile.dwg	DESIGNED -	REVISED -		VILLAGE OF <b>HOFFMAN ESTATES</b> 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800	Higgins Road Bicycle and Pedestrian Project Striping and Signage	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -				341	08-00080-00-BT	Cook	86	32
	CHECKED -	REVISED -				CONTRACT NO. 63233		ILLINOIS FED. AID PROJECT CMM 9003(243)		
	DATE -	REVISED -			SCALE: 1" = 20'	SHEET NO. 5 OF 7 SHEETS		STA. 395+00 TO STA. 405+00		





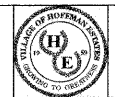
FILE NAME - Higgins Bike Path-Plan & Profile.dwg	DESIGNED -	REVISED -		VILLAGE OF <b>HOFFMAN ESTATES</b> 1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800	Higgins Road Bicycle and Pedestrian Project Striping and Signage	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -				341	08-00080-00-BT	Cook	86	33
	CHECKED -	REVISED -				CONTRACT NO. 63233		ILLINOIS FED. AID PROJECT CMM 9003(243)		
	DATE -	REVISED -			SCALE: 1" = 20'	SHEET NO. 6 OF 7 SHEETS		STA. 405+00 TO STA. 412+00		

NOTE: UNLESS STRIPING LOCATION PROVIDED, ALL PROPOSEED STRIPING WILL BE IN SAME LOCATION AS EXISTING



FILE NAME - Higgins Bike Path-Plan & Profile.dwg

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Striping and Signage  
SCALE: 1" = 20' SHEET NO. 7 OF 7 SHEETS STA. 815+00 TO STA. 827+00

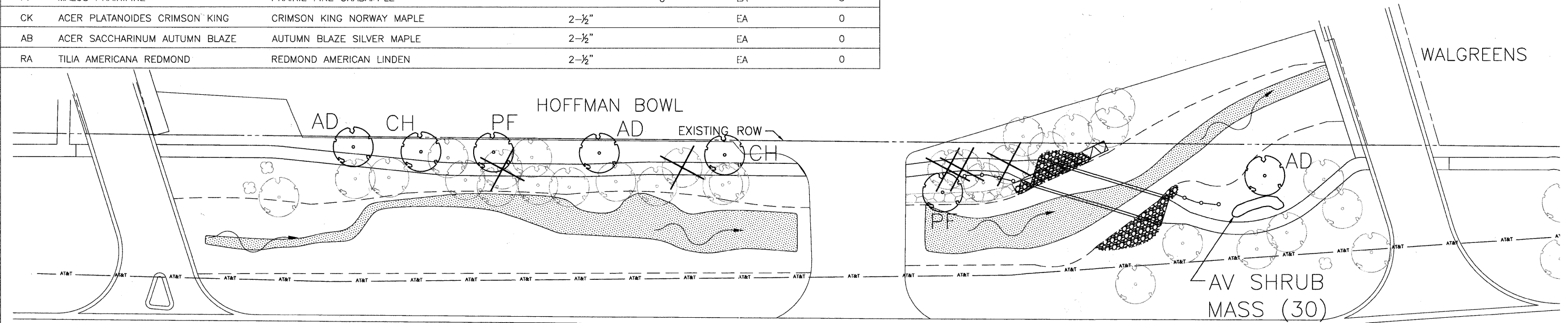
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	34
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	

SYMBOL	SPECIES NAME	COMMON NAME	DIAMETER	HEIGHT	UNIT	QUANTITY
AC	RIBES ALPINUM	ALPINE CURRANT		3'	EA	0
PL	SYRINGA X PERSICA	PERSIAN LILAC		3'	EA	0
AV	VIBERNUM DENTATUM MORTON	NORTHERN BURGUNDY ARROWWOOD VIBURNUM		3'	EA	60
AP	PINUS NIGRA	AUSTRIAN PINE		6'	EA	0
BH	PICEA GLAUCA DENSATA	BLACK HILLS SPRUCE		6'	EA	0
CB	PICEA PUNGENS GLAUCA	COLORADO BLUE SPRUCE		6'	EA	0
CH	CRETAEGUS GRUSGALLI INERMIS	THORNLESS COCKSPUR HAWTHORN		6'	EA	3
AD	MALUS ADAMS	ADAMS CRABAPPLE		6'	EA	4
PF	MALUS PRAIRIFIRE	PRAIRIE FIRE CRABAPPLE		6'	EA	3
CK	ACER PLATANOIDES CRIMSON KING	CRIMSON KING NORWAY MAPLE	2-1/2"		EA	0
AB	ACER SACCHARINUM AUTUMN BLAZE	AUTUMN BLAZE SILVER MAPLE	2-1/2"		EA	0
RA	TILIA AMERICANA REDMOND	REDMOND AMERICAN LINDEN	2-1/2"		EA	0

NOTE: TREE PROTECTION FENCING LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

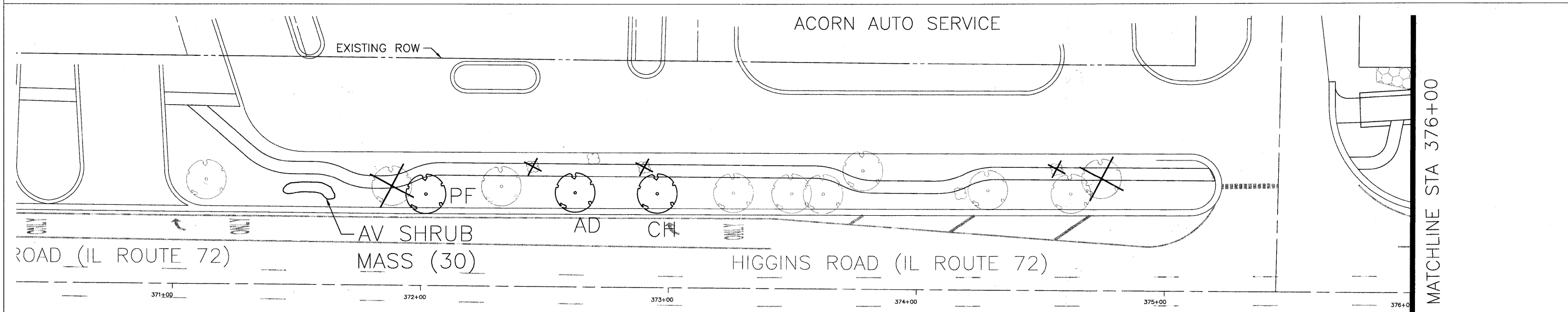
NOTE: THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

1. STA 372+65 TO STA 373+85 0 TO 60 FEET LT (ACORN AUTO SERVICE, SITE 2179-15, 100 EAST HIGGINS ROAD, HOFFMAN ESTATES) - NON-SPECIAL WASTE. CONTAMINANTS OF CONCERN SAMPLING PARAMETERS: PNAs.



HIGGINS ROAD (IL ROUTE 72)

361+00 362+00 363+00 364+00 365+00 366+00



ACORN AUTO SERVICE

EXISTING ROW

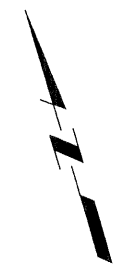
AV SHRUB MASS (30)

HIGGINS ROAD (IL ROUTE 72)

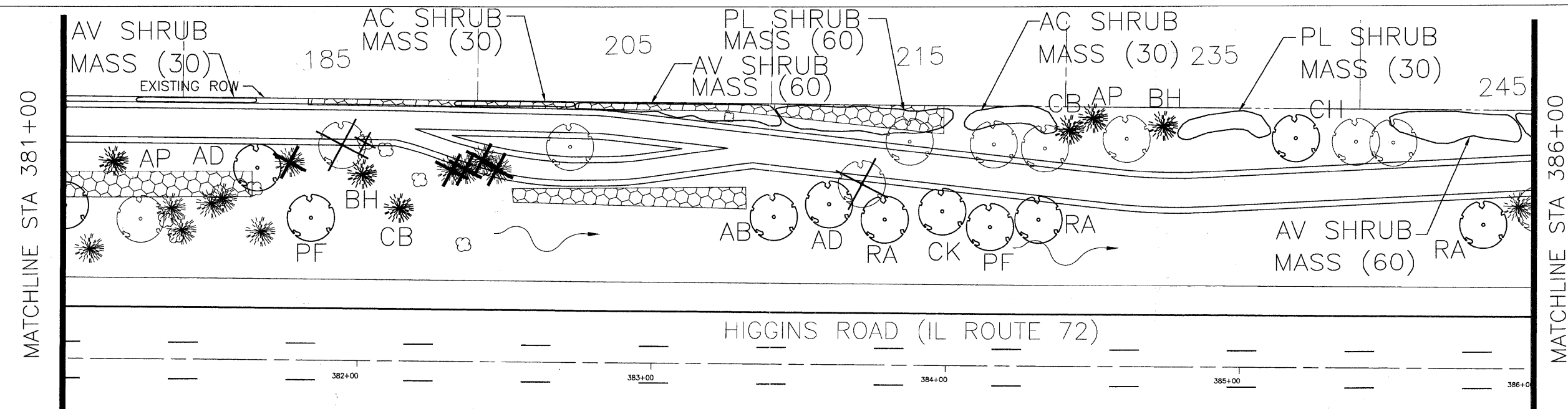
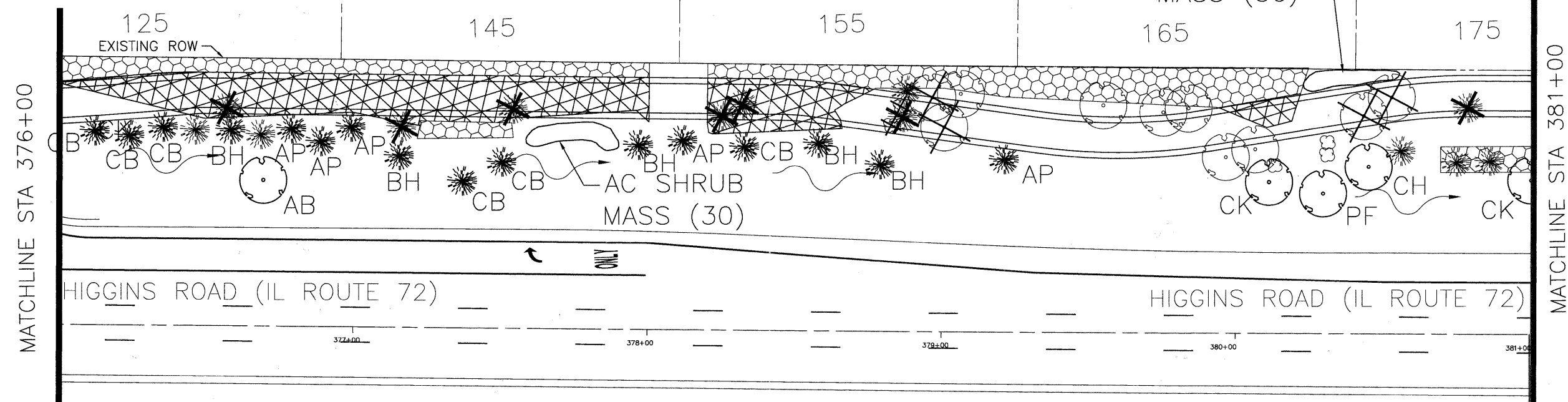
371+00 372+00 373+00 374+00 375+00 376+00

MATCHLINE STA 376+00

SYMBOL	SPECIES NAME	COMMON NAME	DIAMETER	HEIGHT	UNIT	QUANTITY
AC	RIBES ALPINUM	ALPINE CURRANT		3'	EA	90
PL	SYRINGA X PERSICA	PERSIAN LILAC		3'	EA	120
AV	VIBERNUM DENTATUM MORTON	NORTHERN BURGUNDY ARROWWOOD VIBURNUM		3'	EA	150
AP	PINUS NIGRA	AUSTRIAN PINE		6'	EA	7
BH	PICEA GLAUCA DENSATA	BLACK HILLS SPRUCE		6'	EA	7
CB	PICEA PUNGENS GLAUCA	COLORADO BLUE SPRUCE		6'	EA	8
CH	CRETAEGUS GRUSGALLI INERMIS	THORNLESS COCKSPUR HAWTHORN		6'	EA	2
AD	MALUS ADAMS	ADAMS CRABAPPLE		6'	EA	2
PF	MALUS PRAIRIFIRE	PRAIRIE FIRE CRABAPPLE		6'	EA	3
CK	ACER PLATANOIDES CRIMSON KING	CRIMSON KING NORWAY MAPLE	2-1/2"		EA	3
AB	ACER SACCHARINUM AUTUMN BLAZE	AUTUMN BLAZE SILVER MAPLE	2-1/2"		EA	2
RA	TILIA AMERICANA REDMOND	REDMOND AMERICAN LINDEN	2-1/2"		EA	3



NOTE: TREE PROTECTION FENCING LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



FILE NAME = Higgins Bike Path--Plan & Profile.dwg

DESIGNED --	REVISED --
DRAWN --	REVISED --
CHECKED --	REVISED --
DATE --	REVISED --



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

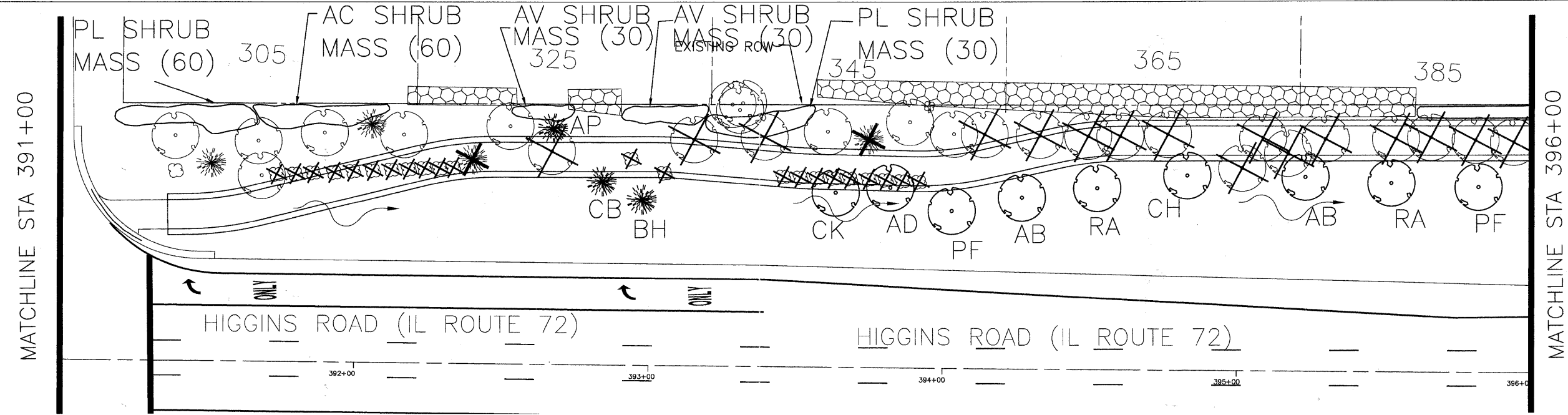
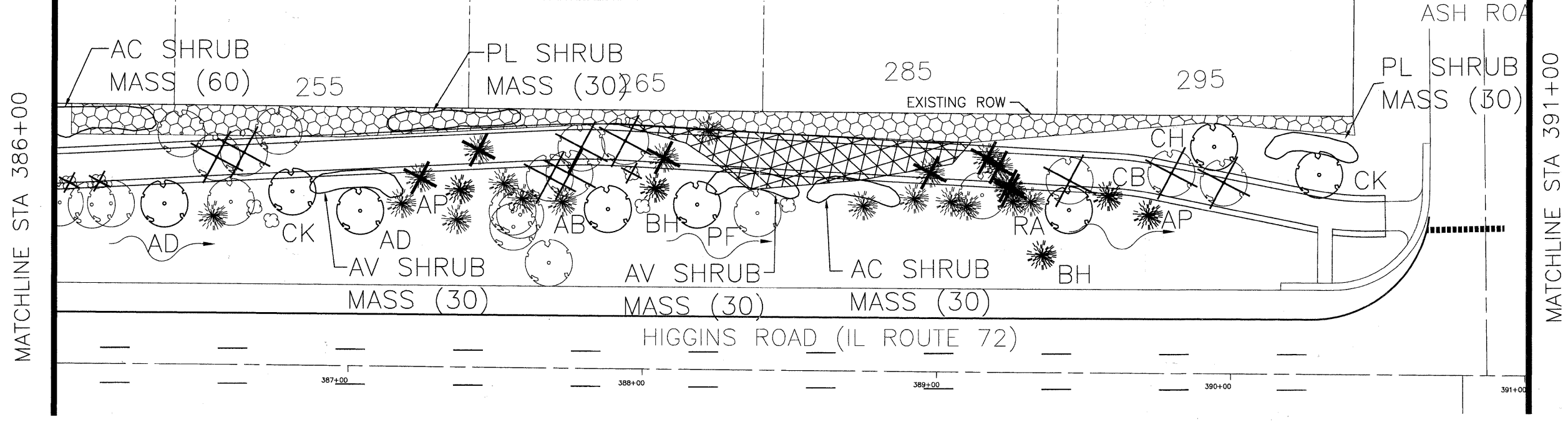
Higgins Road Bicycle and Pedestrian Project  
Landscaping  
SCALE: 1" = 20' SHEET NO. 2 OF 5 SHEETS STA. 376+00 TO STA. 386+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	36
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT GMM 9003(243)	

SYMBOL	SPECIES NAME	COMMON NAME	DIAMETER	HEIGHT	UNIT	QUANTITY
AC	RIBES ALPINUM	ALPINE CURRANT		3'	EA	150
PL	SYRINGA X PERSICA	PERSIAN LILAC		3'	EA	150
AV	VIBERNUM DENTATUM MORTON	NORTHERN BURGUNDY ARROWWOOD VIBURNUM		3'	EA	120
AP	PINUS NIGRA	AUSTRIAN PINE		6'	EA	3
BH	PICEA GLAUCA DENSATA	BLACK HILLS SPRUCE		6'	EA	3
CB	PICEA PUNGENS GLAUCA	COLORADO BLUE SPRUCE		6'	EA	2
CH	CRETAEGUS GRUSGALLI INERMIS	THORNLESS COCKSPUR HAWTHORN		6'	EA	2
AD	MALUS ADAMS	ADAMS CRABAPPLE		6'	EA	3
PF	MALUS PRAIRIFIRE	PRAIRIE FIRE CRABAPPLE		6'	EA	3
CK	ACER PLATANOIDES CRIMSON KING	CRIMSON KING NORWAY MAPLE	2-1/2"		EA	3
AB	ACER SACCHARINUM AUTUMN BLAZE	AUTUMN BLAZE SILVER MAPLE	2-1/2"		EA	3
RA	TILIA AMERICANA REDMOND	REDMOND AMERICAN LINDEN	2-1/2"		EA	3



NOTE: TREE PROTECTION FENCING LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



FILE NAME -  
Higgins Bike Path--Plan & Profile.dwg

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

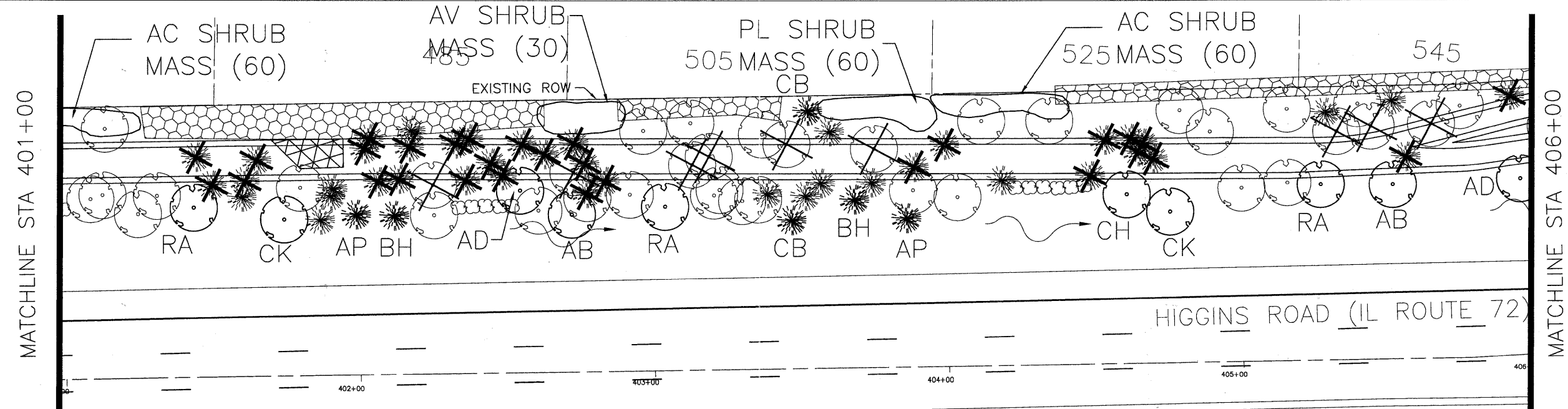
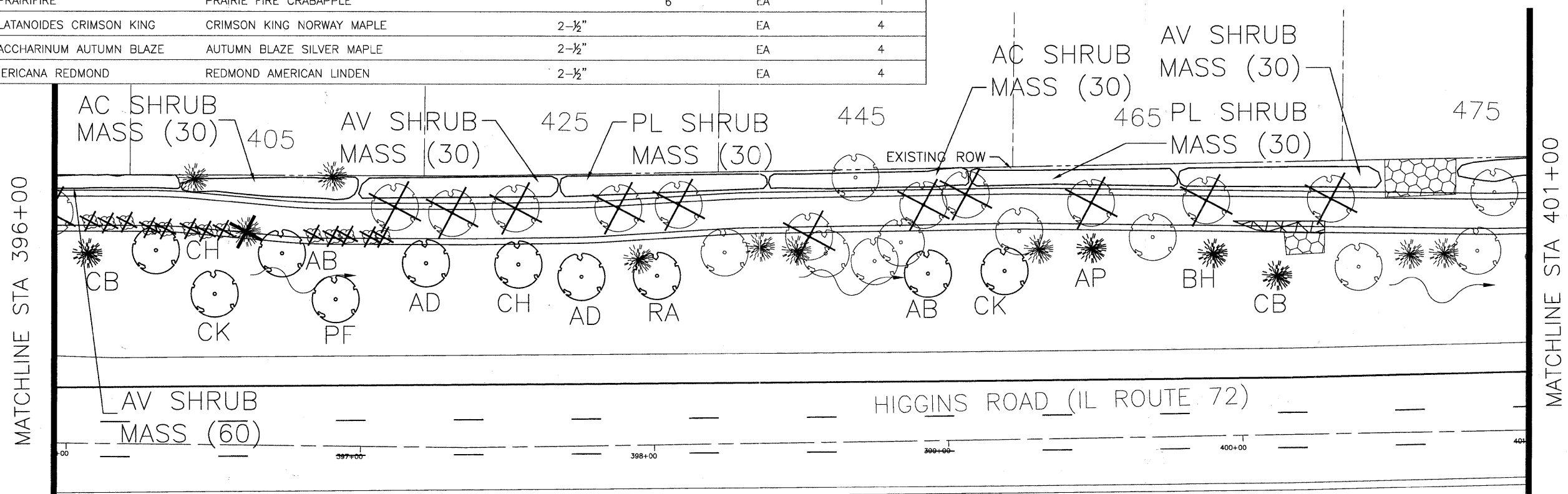
Higgins Road Bicycle and Pedestrian Project  
Landscaping  
SCALE: 1" = 20' SHEET NO. 3 OF 5 SHEETS STA. 386+00 TO STA. 396+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	37
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	

SYMBOL	SPECIES NAME	COMMON NAME	DIAMETER	HEIGHT	UNIT	QUANTITY
AC	RIBES ALPINUM	ALPINE CURRANT		3'	EA	180
PL	SYRINGA X PERSICA	PERSIAN LILAC		3'	EA	120
AV	VIBERNUM DENTATUM MORTON	NORTHERN BURGUNDY ARROWWOOD VIBURNUM		3'	EA	150
AP	PINUS NIGRA	AUSTRIAN PINE		6'	EA	3
BH	PICEA GLAUCA DENSATA	BLACK HILLS SPRUCE		6'	EA	3
CB	PICEA PUNGENS GLAUCA	COLORADO BLUE SPRUCE		6'	EA	4
CH	CRETAEGUS GRUSGALLI INERMIS	THORNLESS COCKSPUR HAWTHORN		6'	EA	3
AD	MALUS ADAMS	ADAMS CRABAPPLE		6'	EA	4
PF	MALUS PRAIRIFIRE	PRAIRIE FIRE CRABAPPLE		6'	EA	1
CK	ACER PLATANOIDES CRIMSON KING	CRIMSON KING NORWAY MAPLE	2-1/2"		EA	4
AB	ACER SACCHARINUM AUTUMN BLAZE	AUTUMN BLAZE SILVER MAPLE	2-1/2"		EA	4
RA	TILIA AMERICANA REDMOND	REDMOND AMERICAN LINDEN	2-1/2"		EA	4



NOTE: TREE PROTECTION FENCING LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



FILE NAME = Higgins Bike Path--Plan & Profile.dwg

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



VILLAGE OF HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

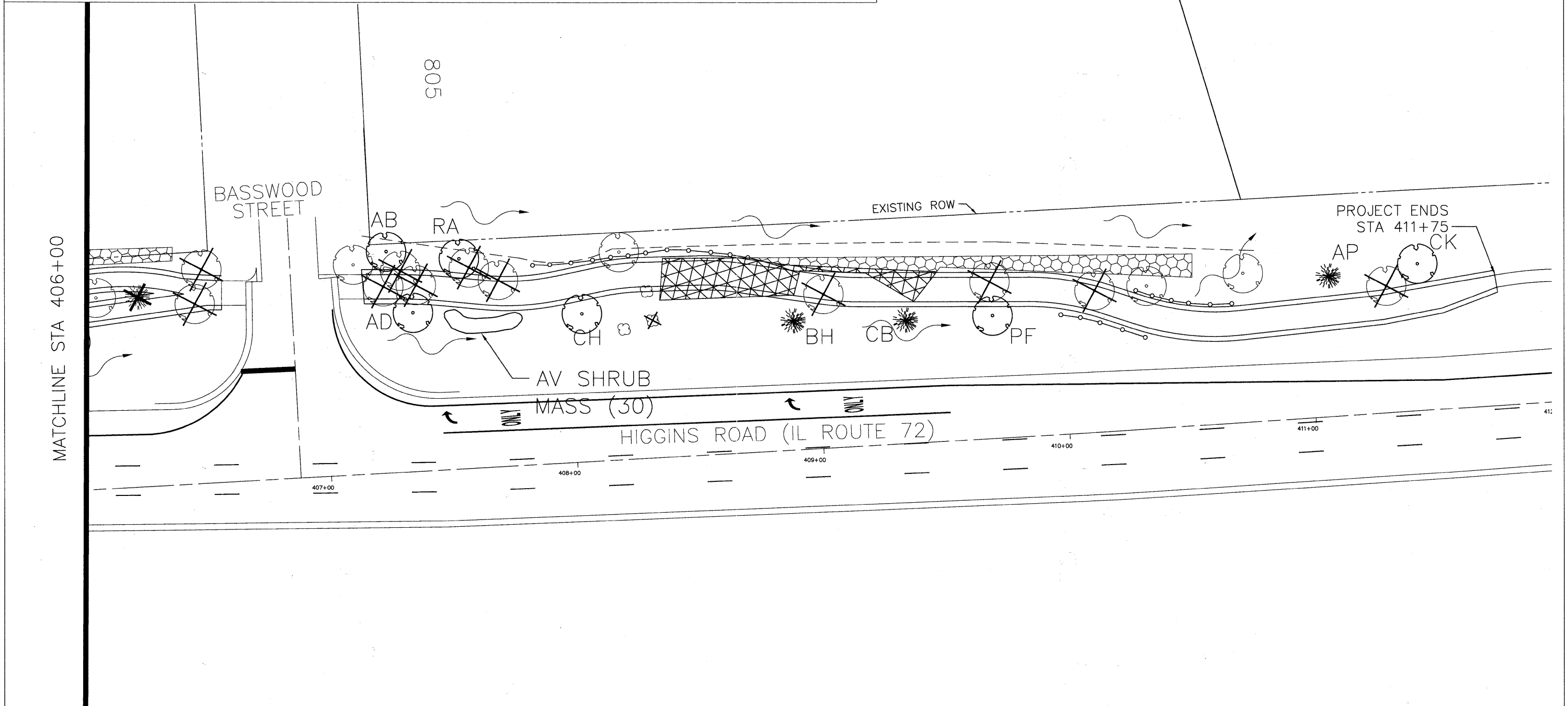
Higgins Road Bicycle and Pedestrian Project  
Landscaping  
SCALE: 1" = 20' SHEET NO. 4 OF 5 SHEETS STA. 396+00 TO STA. 406+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	38
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	

SYMBOL	SPECIES NAME	COMMON NAME	DIAMETER	HEIGHT	UNIT	QUANTITY
AC	RIBES ALPINUM	ALPINE CURRANT		3'	EA	0
PL	SYRINGA X PERSICA	PERSIAN LILAC		3'	EA	0
AV	VIBERNUM DENTATUM MORTON	NORTHERN BURGUNDY ARROWWOOD VIBURNUM		3'	EA	30
AP	PINUS NIGRA	AUSTRIAN PINE		6'	EA	1
BH	PICEA GLAUCA DENSATA	BLACK HILLS SPRUCE		6'	EA	1
CB	PICEA PUNGENS GLAUCA	COLORADO BLUE SPRUCE		6'	EA	1
CH	CRETAEGUS GRUSGALLI INERMIS	THORNLESS COCKSPUR HAWTHORN		6'	EA	1
AD	MALUS ADAMS	ADAMS CRABAPPLE		6'	EA	1
PF	MALUS PRAIRIFIRE	PRAIRIE FIRE CRABAPPLE		6'	EA	1
CK	ACER PLATANOIDES CRIMSON KING	CRIMSON KING NORWAY MAPLE	2-1/2"		EA	1
AB	ACER SACCHARINUM AUTUMN BLAZE	AUTUMN BLAZE SILVER MAPLE	2-1/2"		EA	1
RA	TILIA AMERICANA REDMOND	REDMOND AMERICAN LINDEN	2-1/2"		EA	1

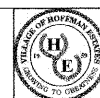


NOTE: TREE PROTECTION FENCING LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.



FILE NAME - Higgins Bike Path-Plan & Profile.dwg

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -



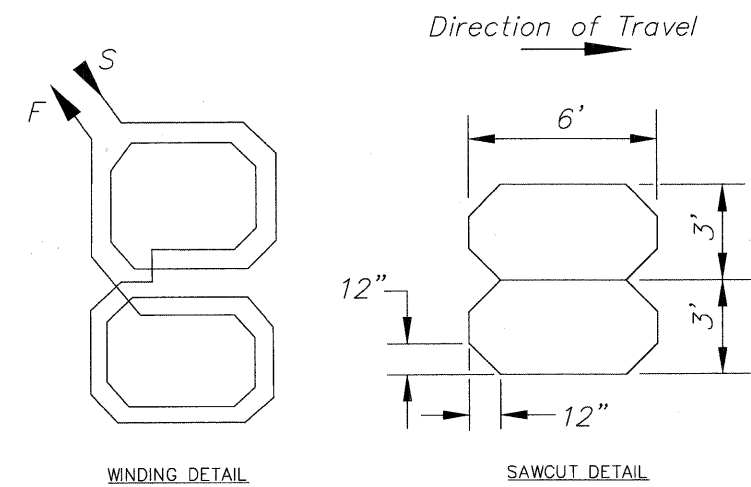
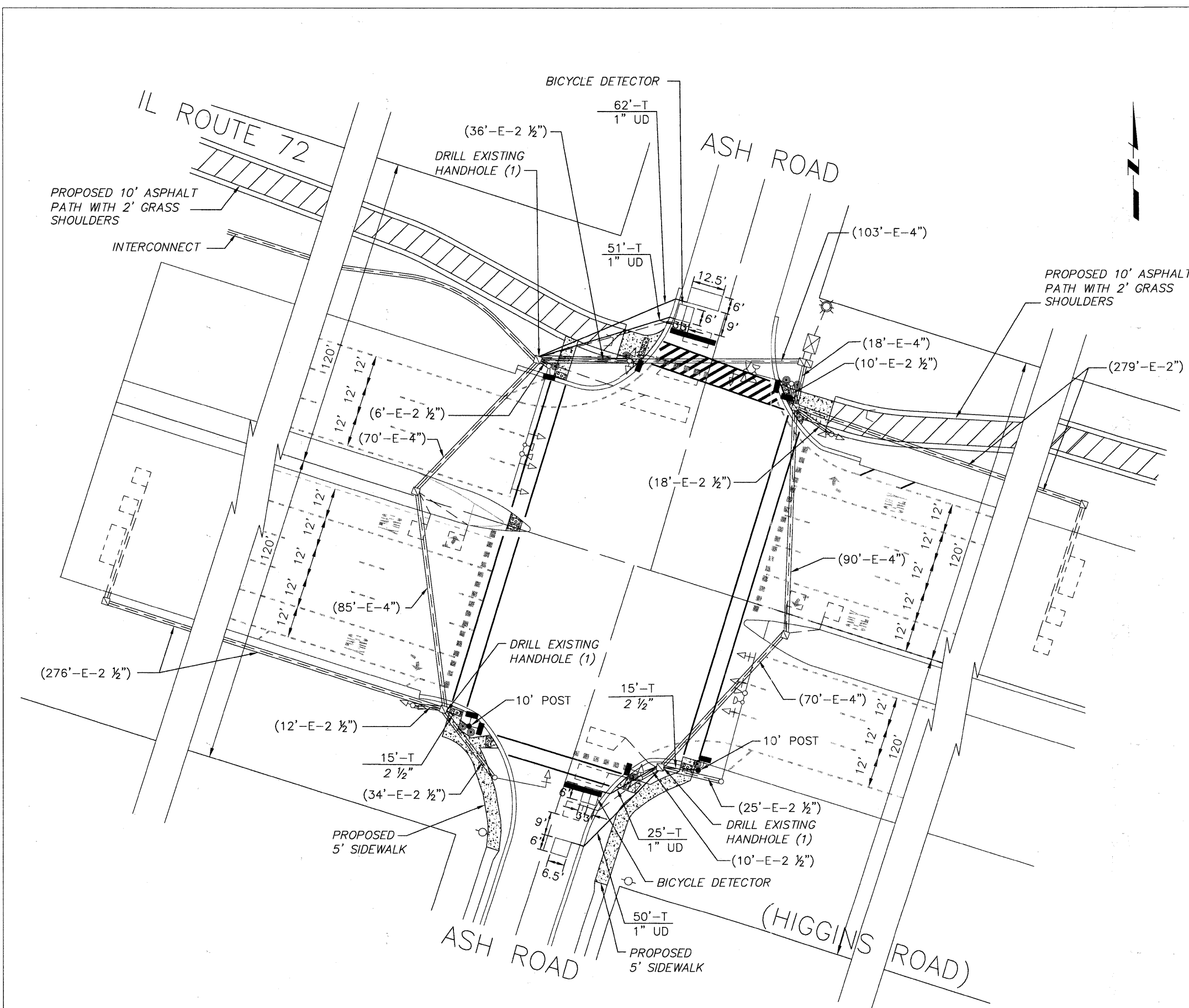
VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Landscaping

SCALE: 1" = 20' SHEET NO. 5 OF 5 SHEETS STA. 406+00 TO STA. 412+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	39
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	





QUADRUPOLE DETECTOR LOOP, TYPE 1  
(TYPE Q LOOP DETECTOR CONFIGURATION)

- CONSTRUCTION NOTES:**
- CONTRACTOR TO INSTALL NEW PEDESTRIAN HEAD, LED, 1-FACE WITH COUNTDOWN TIMER AND NEW PEDESTRIAN PUSH-BUTTON, LED (LATCHING TYPE).

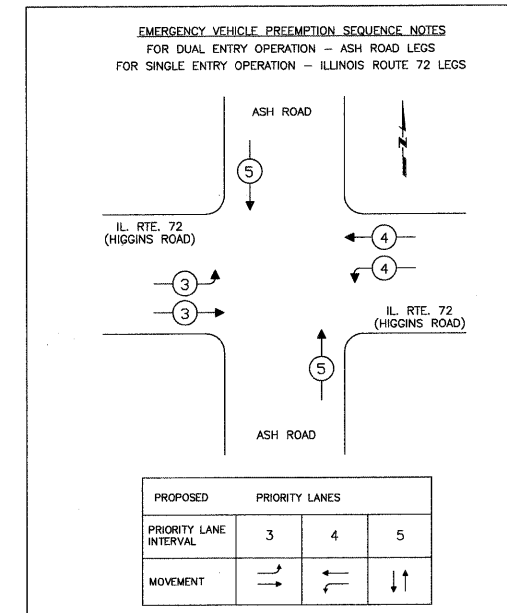
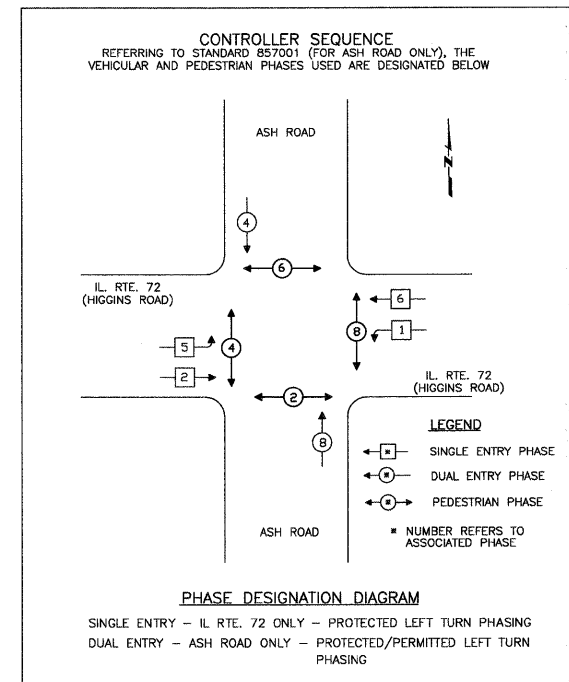
**TRAFFIC SIGNAL LEGEND**  
(TO BE USED IN CONJUNCTION WITH IDOT D1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS - TRAFFIC SIGNAL LEGEND)

EXISTING	PROPOSED	DESCRIPTION
	UD	UNIT DUCT
[ ]	[ ]	QUADRUPOLE DETECTOR LOOP, TYPE 1
[ ]	[ ]	POWER POLE WITH LUMINAIRE

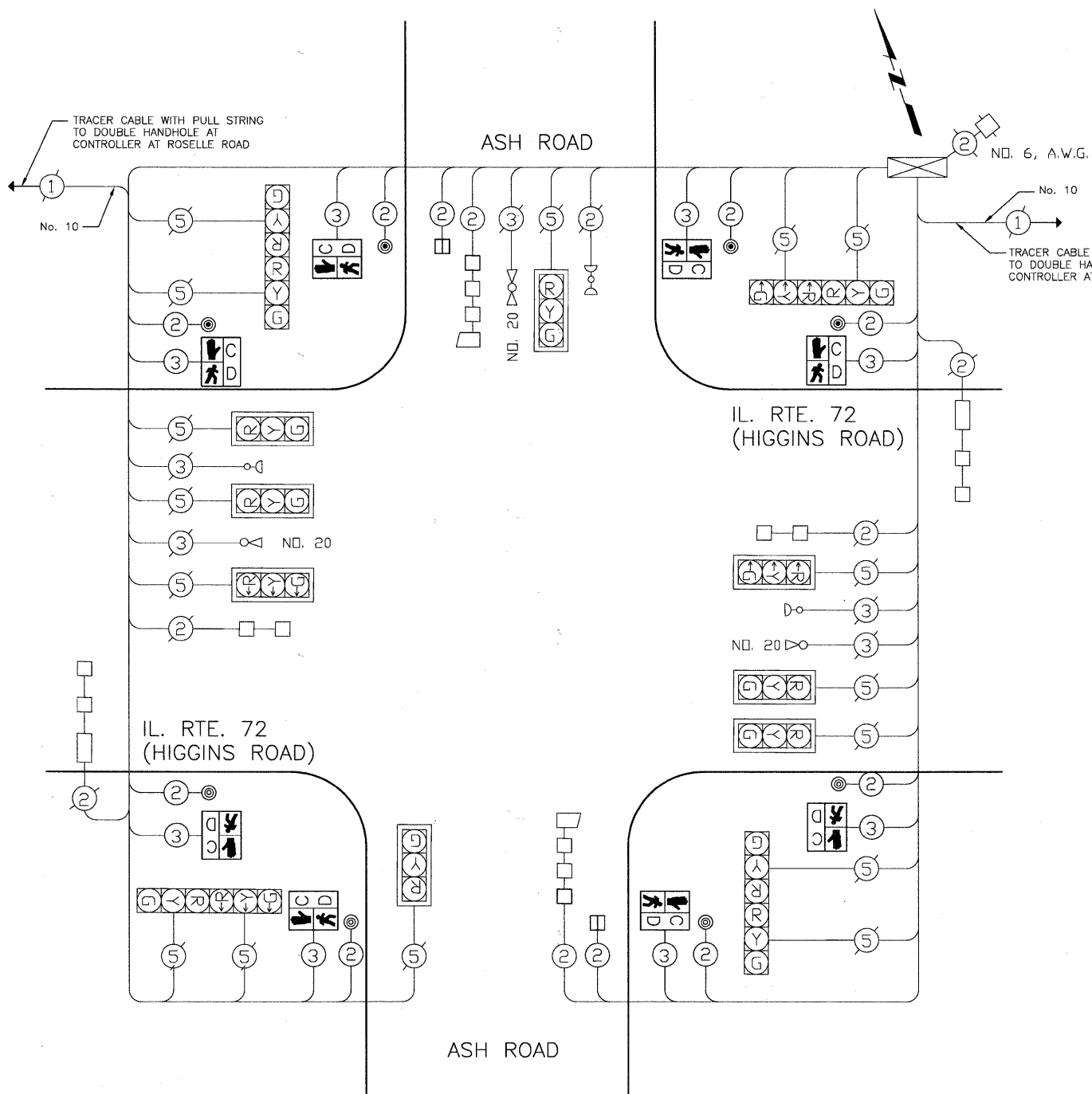


SCHEDULE OF QUANTITIES

PAY ITEM	UNIT	QUANTITY
CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FT	50
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 2C	FT	1800
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 3C	FT	1854
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FT	737
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT	EACH	2
CONCRETE FOUNDATION, TYPE A	FT	12
DRILL EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	2
INDUCTIVE LOOP DETECTOR (SPECIAL)	EACH	2
DETECTOR LOOP, TYPE 1	FT	175
MODIFY EXISTING CONTROLLER	EACH	1
HANDHOLE TO BE ADJUSTED	EACH	4
PEDESTRIAN PUSH BUTTON, LED	EACH	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



- SINGLE ENTRY PHASING NOTES (FOR ILLINOIS ROUTE 72 ONLY)**
- A PHASE IN ONE RING CAN BE SELECTED AND TIMED ALONE IF THERE IS NO DEMAND FOR SERVICE IN A NON-CONFLICTING PHASE ON THE PARALLEL RING ONLY ON THE ARTERIAL'S SIDE OF THE BARRIER.
  - A SINGLE PHASE SELECTED AS STATED ON NOTE 1 SHALL ONLY TERMINATE TO THE CONFLICTING PHASE ON THE SAME SIDE OF THE BARRIER OR TO ANY CONCURRENT PHASES ON THE OTHER SIDE OF THE BARRIER.
  - ONCE CONCURRENT TIMING OF BOTH RINGS OCCURS ON THE ARTERIAL'S SIDE OF THE BARRIER, THE ASSOCIATED CONCURRENT PHASES SHALL ONLY CLEAR TO OTHER CONCURRENT PHASES ON THE SAME SIDE OF THE BARRIER TO OR ANY CONCURRENT PHASES ON THE OTHER SIDE OF THE BARRIER.
  - TERMINATION OF A PHASE SHALL BE WITH A YELLOW INDICATION FOLLOWED BY A RED INDICATION.
  - IN A FLASHING MODE, ALL VEHICULAR SIGNAL FACES SHALL FLASH RED AND ALL PEDESTRIAN SIGNAL FACES SHALL BE DARK.
- DUAL ENTRY PHASING NOTES (FOR ASH ROAD ONLY)**
- PHASES SHOWN ON THE CROSS STREET SHALL BE THE ONLY PHASES FOR WHICH STANDARD 857001 IS UTILIZED.
- DUAL ENTRY NOTES:**
- ONCE PREEMPTION HAS BEEN CALLED, TERMINATION OF A DUAL ENTRY PHASE(S) SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S TERMINATION OF A PHASE(S) AS DESCRIBED IN STANDARD 857001.
  - CONTINUATION OR TERMINATION OF ALL RIGHT TURN OVERLAPS SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S CONTINUATION OR TERMINATION OF RIGHT TURN OVERLAPS AS DESCRIBED IN THE CLEARANCE NOTES FOR RIGHT TURN OVERLAPS WITH THE FOLLOWING EXCEPTION: A RIGHT TURN OVERLAP SHALL BE TERMINATED IF THAT OVERLAP IS IN ITS PERMISSIVE OR PROTECTED PHASE IN THE NORMAL SEQUENCE OF OPERATION AND IT IS FOLLOWED BY ITS PROTECTED PHASE IN THE PREEMPTION SEQUENCE.
- SINGLE ENTRY NOTES:**
- ONCE PREEMPTION HAS BEEN CALLED, TERMINATION OF A SINGLE ENTRY PHASE(S) SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S TERMINATION OF A PHASE(S) AS DESCRIBED IN THE SINGLE ENTRY PHASING NOTES.
  - A RIGHT TURN OVERLAP SHALL BE TERMINATED IF THAT OVERLAP IS IN ITS PERMISSIVE OR PROTECTED PHASE IN THE NORMAL SEQUENCE OF OPERATION AND IT IS FOLLOWED BY ITS PROTECTED PHASE IN THE PREEMPTION SEQUENCE.
  - CONTINUATION OR TERMINATION OF A RIGHT TURN OVERLAP DURING ITS PROTECTED PHASE WHEN TRANSFERRING FROM THE NORMAL SEQUENCE OF OPERATION TO THE PREEMPTION SEQUENCE SHALL BE IDENTICAL TO THE NORMAL SEQUENCE OF OPERATION'S CONTINUATION OR TERMINATION OF A RIGHT TURN OVERLAP DURING ITS PROTECTED PHASE AS DESCRIBED IN THE CLEARANCE NOTES FOR RIGHT TURN OVERLAPS.



CABLE PLAN  
NOT TO SCALE

CABLE PLAN LEGEND

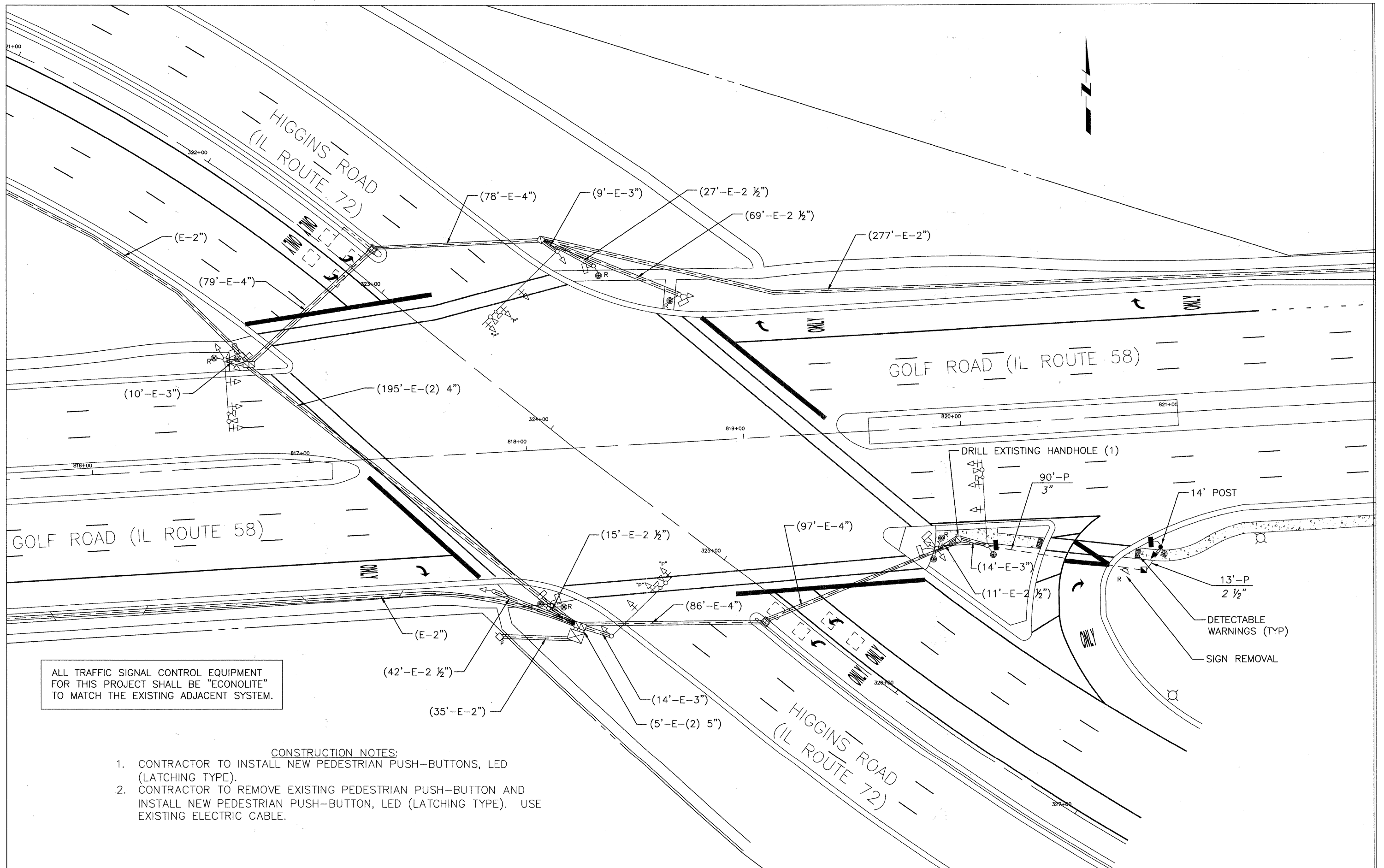
(TO BE USED IN CONJUNCTION WITH IDOT D1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS - TRAFFIC SIGNAL LEGEND)

EXISTING      PROPOSED

□      □ BICYCLE DETECTOR, QUADRUPOLE INDUCTION LOOP

**CONSTRUCTION NOTES:**

- CONTRACTOR TO INSTALL NEW PEDESTRIAN HEAD, LED, 1-FACE WITH COUNTDOWN TIMER AND NEW PEDESTRIAN PUSH-BUTTON, LED (LATCHING TYPE).



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

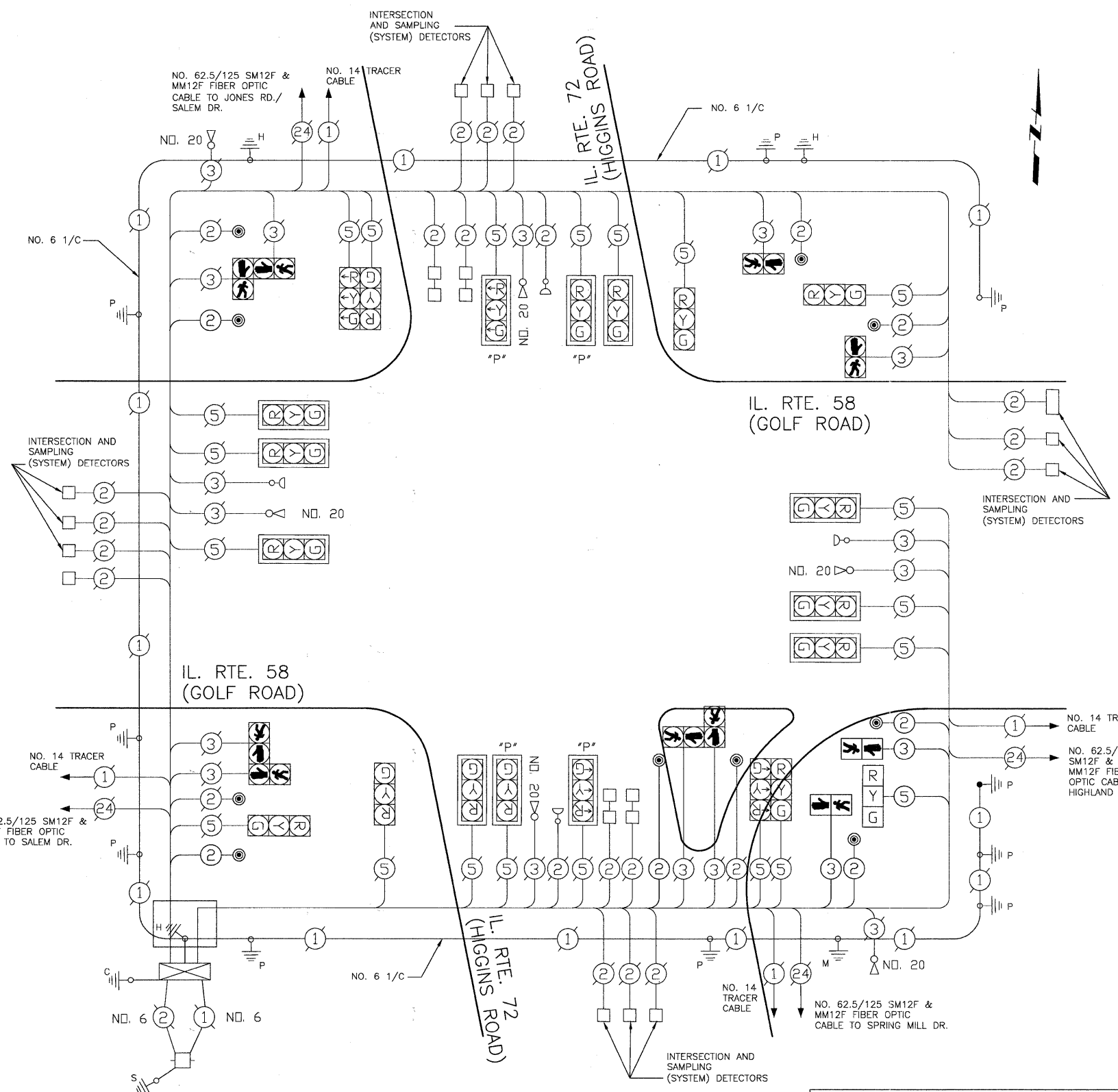
- CONSTRUCTION NOTES:
1. CONTRACTOR TO INSTALL NEW PEDESTRIAN PUSH-BUTTONS, LED (LATCHING TYPE).
  2. CONTRACTOR TO REMOVE EXISTING PEDESTRIAN PUSH-BUTTON AND INSTALL NEW PEDESTRIAN PUSH-BUTTON, LED (LATCHING TYPE). USE EXISTING ELECTRIC CABLE.

FILE NAME = DETAILSH.DWG	DESIGNED —	REVISED —		VILLAGE OF HOFFMAN ESTATES		Higgins Road Bicycle and Pedestrian Project		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN —	REVISED —		1900 Hassell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800		Traffic Signal Modification Plans - Higgins Road and Golf Road		341	08-00080-00-BT	Cook	86	42
	CHECKED —	REVISED —				SCALE: 1"=20'	SHEET NO. 1 OF 1 SHEETS	STA.			CONTRACT NO. 63233	
	DATE —	REVISED —									ILLINOIS FED. AID PROJECT CMM 9003(243)	

### SCHEDULE OF QUANTITIES

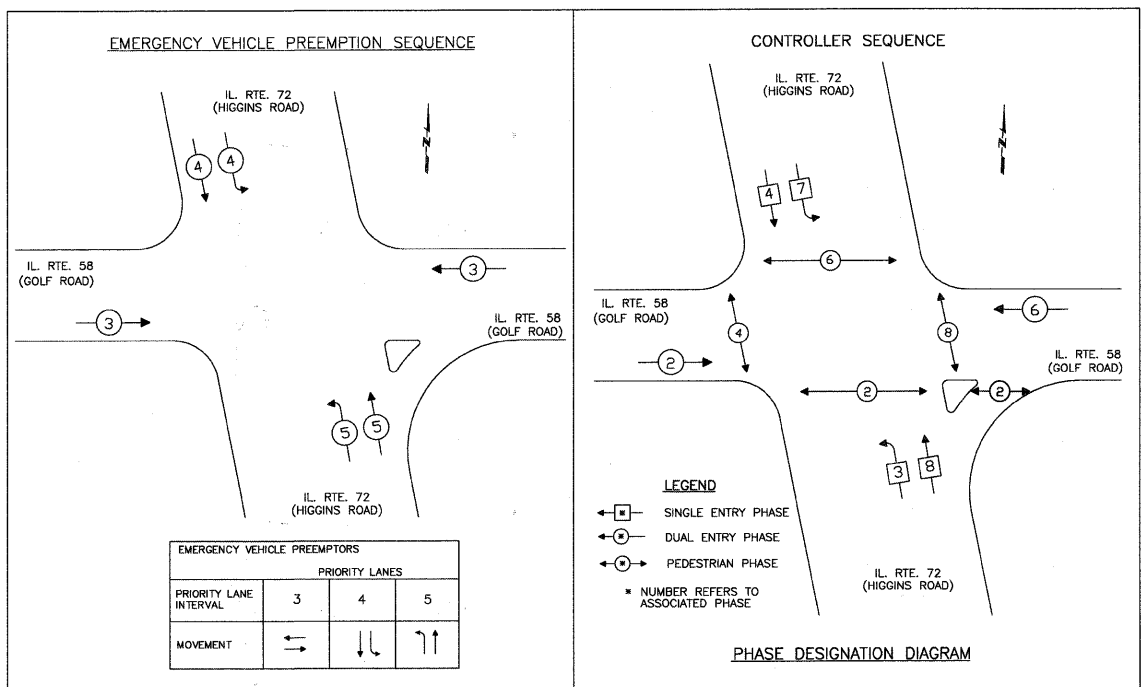
PAY ITEM	UNIT	QUANTITY
CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FT	13
CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FT	90
HANDHOLE	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 2C	FT	2700
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 3C	FT	675
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14, 5C	FT	400
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FT	155
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT	EACH	1
CONCRETE FOUNDATION, TYPE A	FT	4
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
SIGN REMOVAL	EACH	1
PEDESTRIAN PUSH BUTTON, LED	EACH	10
REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	5
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

- CONSTRUCTION NOTES:**
- CONTRACTOR TO INSTALL NEW PEDESTRIAN PUSH-BUTTONS, LED (LATCHING TYPE).
  - CONTRACTOR TO REMOVE EXISTING PEDESTRIAN PUSH-BUTTON AND INSTALL NEW PEDESTRIAN PUSH-BUTTON, LED (LATCHING TYPE). USE EXISTING ELECTRIC CABLE.



**CABLE PLAN**  
NOT TO SCALE

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



# HIGGINS BIKE PATH

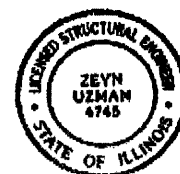
## Hoffman Estates, IL TIMBER FREESPAN PEDESTRIAN BRIDGE

DRAWING INDEX					
REVISIONS	DRAWING TITLE	SHEET NUMBER	REVISIONS	DRAWING TITLE	SHEET NUMBER
	GENERAL			SECTIONS	
	COVER/DRAWING INDEX	000		SECTION - STRINGER DIMENSIONS	301
	GENERAL NOTES	001		ENLARGED	
	PROJECT NOTES	002		ENLARGED PLAN - ABUTMENT	401
	BILL OF MATERIALS	003		ENLARGED ELEVATION - H5 ABUTMENT	402
	BIDDERS PAGE	004		ENLARGED ABUTMENT SECTION @ WINGWALL	403
	WATER INFORMATION TABLE	005		DETAILS	
	PLANS			GLULAM BLOCKING DETAILS - PLAN	501
	PLAN - PILE LAYOUT	101		COUNTERSINK DETAILS	502
	PLAN - STRINGER LAYOUT	102		CURB DETAILS	503
	ELEVATIONS			GUIDERAIL & POST DETAILS	504
	ELEVATION - SOUTHEAST	201		ABUTMENT DETAILS	505
	ELEVATION - CURB	202		HARDWARE DETAILS	506
	ELEVATION - POSTS	203			

I CERTIFY THAT 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 SPECIFICATIONS FOR PEDESTRIAN BRIDGES.

ILLINOIS STRUCTURAL NO. 4745

EXPIRES 11/30/2012



**GENERAL NOTES:**

1. OWNER IS TO PROVIDE AN ADEQUATE AND SECURE STAGING AREA FOR MATERIALS AND EQUIPMENT NEAR EACH BRIDGE SITE. THIS AREA MUST BE ACCESSIBLE AND CONSTANT UNTIL THE BRIDGE IS COMPLETE.
2. OWNER IS TO PROVIDE ADEQUATE ACCESS TO EACH WORK SITE FOR CONSTRUCTION MATERIALS AND EQUIPMENT PER THE BRIDGE BUILDER REQUIREMENTS. PROVISION OF ACCESS MAY INCLUDE REMOVAL OF VEGETATION, ROAD SHAPING, SCRAPING AND/OR APPLICATION OF GRAVEL TO SOLIDIFY ROAD SURFACE.
3. OWNER IS TO VERIFY THAT ALL REQUIRED PERMITS ARE IN PLACE PRIOR TO THE BRIDGE BUILDER MOBILIZATION, AND TO PROVIDE THE BRIDGE BUILDER WITH A COPY OF ANY PERMIT(S) PERTINENT TO THE WORK DESCRIBED IN THE PROPOSAL.
4. SITE PREPARATION AND COMPACTION FOR THE CONSTRUCTION OF ALL WORK MUST BE SUBSTANTIALLY COMPLETED ON THIS PROJECT PRIOR TO THE BRIDGE BUILDER MOBILIZATION TO ALLOW THE BRIDGE BUILDER IMMEDIATE COMMENCEMENT OF WORK UPON ARRIVAL AT JOBSITE. ALL SITE WORK PREPARATION, EXCAVATION AND CLEANING ARE TO BE PERFORMED BY OTHERS. ALL BACK FILLING AND FINISH GRADING BY OTHERS.
5. OWNER WILL CLEARLY MARK OR REMOVE ANY UTILITIES, SPRINKLER HEADS OR IRRIGATION LINES WITHIN 50' OF ALL AREAS WHERE CONSTRUCTION WILL OCCUR PRIOR TO THE BRIDGE BUILDER MOBILIZATION. THE BRIDGE BUILDER WILL NOT BE HELD LIABLE FOR DAMAGE TO ANY MARKED OR UNMARKED UTILITY OR IRRIGATION LINES IN THIS AREA.
6. OWNER IS RESPONSIBLE FOR HAVING THE CENTERLINES AND OFFSETS LOCATED AND STAKED AND PROVIDING APPROPRIATE BENCHMARKS AND ELEVATIONS PRIOR TO THE BRIDGE BUILDER MOBILIZATION. DURING CONSTRUCTION THE BRIDGE BUILDER MAY REQUIRE ADDITIONAL CONSTRUCTION STAKING, WHICH WILL BE THE RESPONSIBILITY OF THE OWNER.
7. THE BRIDGE BUILDER IS NOT RESPONSIBLE FOR ADEQUATE SITE DRAINAGE DURING CONSTRUCTION PHASE.
8. OWNER IS REQUIRED TO INSPECT AND SIGN OFF FOR EACH BRIDGE SITE BOTH BEFORE AND AFTER CONSTRUCTION TO PROVIDE QUALITY ASSURANCE WHILE THE BRIDGE BUILDER IS ONSITE PRIOR TO DEMOBILIZATION.
9. BRIDGE CONTRACTOR WILL PERFORM ALL WORK FROM DECK LEVEL WHERE APPLICABLE. ALL FOOT TRAFFIC WILL BE CONTAINED WITHIN SIX FEET FROM BRIDGE PATH.
10. BRIDGE CONTRACTOR WILL CLEAN UP EACH BRIDGE SITE DAILY, SCRAP TO BE PLACED IN DUMPSTER TO BE PROVIDED BY THE BRIDGE BUILDER OR OTHERWISE SPECIFIED IN THE CONTRACT.
11. OWNER IS RESPONSIBLE FOR POSTING LOAD LIMIT SIGNS AND/OR SPEED LIMIT SIGNS AT EACH END OF EACH BRIDGE.
12. COMPLIANCE WITH ALL BUILDING CODES REGARDING ADA COMPLIANCE WILL BE THE RESPONSIBILITY OF THE OWNER. CONTINUOUS ADA METAL GUIDE RAILS IF REQUIRED ARE TO BE INSTALLED BY OTHERS.
13. ALL UTILITY LINES, PIPES, CONDUIT OR OTHER LINES TO BE ATTACHED TO THE BRIDGE WILL BE INSTALLED BY OTHERS AFTER BRIDGE COMPLETION. ALL PIPE HANGER DESIGNS WILL BE BY OTHERS.
14. ALL THE BRIDGE BUILDER BRIDGES WILL NOT BE ABLE TO BE UTILIZED BY ANYONE OTHER THAN THE BRIDGE BUILDER PERSONNEL UNTIL THEY ARE INDIVIDUALLY SIGNED OFF BY A CERTIFIED REPRESENTATIVE OF THE OWNER.
15. IF THE INFORMATION OF THE 100-YEAR FLOOD ELEVATION FURNISHED BY CLIENT ENGINEER DOES NOT MEET THE BRIDGE BUILDER CRITERIA OF 12 INCHES ABOVE FLOOD PLAIN FOR THIS DESIGN, THE BRIDGE BUILDER RECOMMENDS THAT THE ELEVATION OF THE BOTTOM OF THE LOWEST BRIDGE STRINGER TO BE PLACED AT A MINIMUM OF 12 INCHES ABOVE THE 100-YEAR FLOOD ELEVATION.

THIS SHEET SIZE IS 22"x34" ANYTHING SMALLER IS A REDUCTION

	ENGINEER:	LICENSED:	REVISIONS			PROJECT DESCRIPTION		HIGGINS BIKE PATH PROJECT			
			REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL			
						DESIGNED LOADING		GENERAL			
						85-PSF OR 5 TON GVW (L/360 DEFLECTION)		NOTES			
						APPROVED BY:	DATE APPROVED:	DATE	DRAWN BY:	PROJECT NUMBER	SHEET NUMBER
							4/6/11	D. MATTHEWS	209031	45 of 86 <b>001</b>	

**TIMBER BRIDGE PROJECT NOTES:**

1. UNLESS OTHERWISE SPECIFIED, ALL SAWN LUMBER SHALL BE SOUTHERN YELLOW PINE AND GRADED UNDER THE SOUTHERN PINE INSPECTION BUREAU (SPIB) RULES.
2. UNLESS OTHERWISE SPECIFIED, ALL SAWN LUMBER SHALL BE GRADE NO. 2, S4S (SURFACED FOUR SIDES). PILE CAP TO BE ROUGH SAWN.
3. UNLESS OTHERWISE SPECIFIED, ALL SAWN LUMBER SHALL BE PRESSURE TREATED WITH CCA ON TIMBERS DENOTED BY THE BRIDGE BUILDER AND REFLECTED ON THE BILL OF MATERIALS OR WITH ACQ. RETENTION LEVELS SHALL BE DEFINED IN DESIGN PLANS. PRESSURE TREATMENT SHALL BE IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARD P5-90 AND A2-88. ALL LUMBER AND TIMBERS SHALL BE PRESSURE IMPREGNATED UNDER AWPA STANDARDS C1-90, C2-90, C14-90, AND C18-90 WHERE APPLICABLE.
4. ALL SAWCUTS, DRILLED HOLES OR OTHER PENETRATIONS (EXCEPT PILE SPLICES) SHALL BE TREATED WITH CCA SOLUTION PRIOR TO INSTALLING HARDWARE, BOLTS OR OTHER BRIDGE MEMBERS OR DEVICES.
5. UNLESS OTHERWISE SPECIFIED, TIMBER PILES SHALL BE SOUTHERN YELLOW PINE CONFORMING TO ASTM STANDARD D-25 (LATEST EDITION) FOR QUALITY. SPECIFICATION FOR SIZE SHALL BE 1 INCH TAPER IN 10 LINEAR FEET.
6. ALL PILING SHALL BE PRESSURE IMPREGNATED UNDER AWPA STANDARDS C1-90, C3-90, C14-90, AND C18-90 WHERE APPLICABLE.
7. HARDWARE THAT IS TO BE STAINLESS STEEL WILL BE SPECIFIED ON THE DRAWINGS.
8. WEAR-DECKING SHALL BE ATTACHED WITH 304 STAINLESS STEEL OR BETTER SCREWS RECESSED AT A MINIMUM OF 1/2 INCH BELOW DECK SURFACE.
9. ALL DECK SCREWS NOT BELOW MINIMUM DEPTH SHALL BE DRIVEN BELOW DECK SURFACE WITH AN APPROVED STEEL PUNCH.
10. HAND AUGURING AND JETTING ARE NOT APPROVED PILE INSTALLATION METHODS.
11. PILES ARE REQUIRED TO BE DRIVEN TO REFUSAL AS NOTED ON THE DRAWINGS PER CONTRACT. REFUSAL SHALL BE DEFINED AS AN INSERTION RATE OF 6 INCH PER MINUTE. IF THE SOIL CONDITIONS WARRANT ADDITIONAL DRIVING AT THE DIRECTION OF THE ENGINEER, THE PROJECT MANAGER AND/OR THE FOREMAN IN THE FIELD MAY CONTINUE TO APPLY LOAD ON THE PILE UNTIL THERE IS NOT ANY ADDITIONAL MOVEMENT. IN THE EVENT OF PREMATURE REFUSAL THE ENGINEER WILL BE CONSULTED.
12. UPON ENCOUNTERING DENSE SOIL OR OTHER SIMILAR SOIL CONDITIONS THAT PREVENT DRIVING PILING, THE AUGURING METHOD MAY BE UTILIZED TO ASSIST WITH PILE DRIVING EQUIPMENT.
13. PILING SHALL BE DRIVEN WITH NPK C8 UNLESS HARD SOIL OR ROCK IS ENCOUNTERED.
14. ABUTMENTS WILL HAVE MIRAFI 500X NEEDLE PUNCHED, WOVEN GEOTEXTILE, OR EQUAL.
15. ALL BOLT CONNECTIONS TO HAVE LOCK WASHERS.
16. WE ARE PROVIDING A WOOD DECK IN THIS PROJECT IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR CONTRACT DOCUMENTS. BE AWARE THAT MOST PEDESTRIAN LIABILITY CLAIMS ARE DUE TO SLIP AND FALL CLAIMS, IT IS THE RESPONSIBILITY OF THE OWNER TO KEEP THE DECK FREE FROM SLIP OR TRIP HAZARDS DUE TO CUPPING, SPLITS, GAPS AND SMOOTH SURFACES.
17. THE STRUCTURAL CAPACITY WAS DESIGNED WITH THE FOLLOWING ITEMS TAKEN INTO CONSIDERATION: LOADING/CAPACITY OF COMPONENTS, WIND LOAD/UPLIFT AND STANDARD SOIL.

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	ENGINEER:	LICENSED:	REVISIONS			PROJECT DESCRIPTION		HIGGINS BIKE PATH PROJECT			
			REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL			
						DESIGNED LOADING		PROJECT NOTES			
						85-PSF OR 5 TON GVW (L/360 DEFLECTION)		DATE	DRAWN BY:	PROJECT NUMBER	SHEET NUMBER:
						APPROVED BY:	DATE APPROVED:	4/6/11	D. MATTHEWS	209031	46 of 86 <b>002</b>

**BILL OF MATERIALS**

LUMBER						
NAME	SIZE (in.)	GRADE	RETENTION	TREATMENT	FINISH	TIMBER TYPE
ABUTMENT PILE	10" BUTT		.80	CCA		SYP
WING WALL PILE	8"		.80	CCA		SYP
PED GUIDERAIL POST	6x6	#1 DENSE	.40	CCA	S4S	SYP
PED GUIDERAIL POST BLOCK	6x6x20	#2	.60	CCA	S4S	SYP
BLOCKING	4x8	#2	.60	CCA	ROUGH SAWN	SYP
TOP RAIL	4x10	#1 DENSE	.60	CCA	S4S	SYP
CURB	6x6	#1 DENSE	.60	CCA	S4S	SYP
CURB BLOCK	4x6x18	#1 DENSE	.60	CCA	S4S	SYP
DECKING	2x8	#1 DENSE	.60	CCA	S4S	SYP
KICKER	4x8	#1 DENSE	.60	CCA	S4S	SYP
HORIZONTAL RAILS	2x4	#1 DENSE	.60	CCA	S4S	SYP

HARDWARE				
NAME	SIZE (IN.)	SS	H.D.G.	NOTE
SCREW	#12x4.5, #10x3	YES		
HEX BOLT (2DW,1LW,1N)	3/8"x14", 26"		YES	
HEX BOLT (2DW,1LW,1N)	3/4"x12, 16, 18, 20		YES	
HEX BOLT (2DW,1LW,1N)	1"x24"		YES	
TIMBER BOLT (2DW,1LW,1N)	5/8"x8", 12", 14", 24"		YES	
CARRIAGE BOLT (1DW,1LW,1N)	3/8"x14"		YES	
LAG BOLT (1FW)	3/4"x8"		YES	
D-7273 ANGLE BRACKET	1/2"x4"x12"x6"		YES	
D-9573 ANGLE BRACKET	3/8"x4"x4"x4"		YES	
POST CAP	6"x6"x6"			
STRAP	MTS16-Z, MSTA18-Z		YES	SIMPSON STRONG TIE
NAILS	40D		YES	

GLULAM BEAM							
NAME	SIZE	CAMBER	GRADE	RETENTION	TREATMENT	FINISH	TIMBER MATERIAL
GLULAM STRINGER	12.75"x20"x55'	1200	24F V4	.60	CCA OR TYPE C PENTA	INDUSTRIAL GRADE	SYP/ OR DOUGLAS FIR

FINISHES			
TYPE	COLOR	DESCRIPTION	APPLIED
SEALANT	N/A		NO
EPOXY/AGGREGATE	N/A		NO

NOTE: ALL ITEMS INCLUDED IN THE BILL OF MATERIALS TO THE RIGHT ARE INCLUDED WITH AND BEING PAID AS IDOT CODED ITEM XX008287, BOARDWALK STRUCTURE.

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		REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL	
					DESIGNED LOADING		BILL OF MATERIALS	
					85-PSF OR 5 TON GVW (L/360 DEFLECTION)		DATE	DRAWN BY:
					APPROVED BY:	DATE APPROVED:	4/6/11	D. MATTHEWS
					PROJECT NUMBER	SHEET NUMBER		
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BIDDERS NOTES

1. BRIDGE TO BE BUILT BY A PROFESSIONAL BRIDGE CONTRACTOR, MEETING OR EXCEEDING BELOW SPECIFICATIONS. ALL FOOT TRAFFIC WILL BE CONTAINED WITHIN SIX FEET FROM BRIDGE PATH.
2. BRIDGE CONTRACTOR WILL PROVIDE A 3-YEAR STRUCTURAL WARRANTY. PROPOSED BRIDGE CONTRACTOR MUST PROVIDE A WRITTEN COPY, WITH MAINTENANCE REQUIREMENTS, WITH BID SUBMITTAL.
3. BRIDGE CONTRACTOR MUST HAVE BUILT A MINIMUM OF TWENTY (20) SIMILAR 85 PSF OR HIGHER CAPACITY TIMBER BRIDGES UTILIZING A SIMILAR CONSTRUCTION METHOD. PROPOSED BRIDGE CONTRACTOR MUST SUBMIT WRITTEN PROOF ATTESTING TO COMPLIANCE WITH THIS REQUIREMENT, WHICH MUST BE INCLUDED WITH BID PACKAGE.
4. BRIDGE CONTRACTOR MUST SUPPLY REFERENCES OF AT LEAST 10 CLIENTS FOR WHOM THE BRIDGE CONTRACTOR HAS BUILT SIMILAR 85 PSF OR HIGHER CAPACITY TIMBER BRIDGES UTILIZING A SIMILAR CONSTRUCTION METHOD. PROPOSED BRIDGE CONTRACTOR MUST SUPPLY THE NAMES AND CONTACT INFORMATION OF THE 10 REFERENCES (PREVIOUS CLIENTS) FOR WHOM THE COMPANY HAS BUILT SAID BRIDGES, WHICH MUST BE INCLUDED WITH BID PACKAGE.
5. BRIDGE COMPANY MUST HAVE BEEN IN BUSINESS FOR 10 YEARS OR MORE. PROPOSED BRIDGE CONTRACTOR MUST SUBMIT WRITTEN PROOF ATTESTING TO THIS LENGTH OF TIME, WHICH MUST BE INCLUDED WITH BID PACKAGE.
6. PROPOSED BRIDGE CONTRACTOR MUST PROVIDE A STATEMENT OF INSURANCE AND BONDING CAPABILITIES TO ATTEST AS TO THE FINANCIAL STRENGTH OF THE COMPANY. INCLUDE THE NAME AND LIMITS OF EACH CARRIER FOR THE FOLLOWING: CORPORATE INSURANCE, AUTO LIABILITY INSURANCE, BONDING/SURETY COMPANY. MUST BE INCLUDED WITH BID PACKAGE.
7. PROPOSED BRIDGE CONTRACTOR MUST PROVIDE AN OVERVIEW OF THE BRIDGE CONSTRUCTION PROCESS, FROM DESIGN TO CONSTRUCTION, AND INCLUDE A REVIEW OF THE PROPOSED CONSTRUCTION METHOD FOR THIS PROJECT. MUST BE INCLUDED WITH BID PACKAGE.
8. BRIDGE CONTRACTOR WILL CLEAN UP EACH WORK SITE DAILY, PLACING SCRAPS IN A DUMPSTER TO BE FURNISHED AND REMOVED BY THE BRIDGE CONTRACTOR.

UV PROTECTANT SEALANT

BRIDGE CONTRACTOR SHALL APPLY A 3-STEP UV PROTECTANT SEALANT PACKAGE TO ALL VISIBLE SURFACES OF THE CURB, RAILS, POSTS, PEDESTRIAN DECK (IF APPLICABLE) AND OUTSIDE STRINGERS. THIS APPLICATION SHALL INCLUDE SUPPLY OF ALL MATERIALS AND LABOR - COMPLETE. THE THREE-STEP PROCESS MUST INCLUDE:

- STEP 1: PRESSURE WASHING AND PREP OF THE PARTS TO BE SEALED, INCLUDING
- STEP 2: APPLICATION OF 1 COAT OF PRIMER/BASE COAT
- STEP 3: APPLICATION OF TWO COATS OF THE FINISH COAT (SEALANT) IN OWNER'S CHOICE OF COLORS.

1. APPLICATION MUST BE IN ACCORDANCE WITH ALL MANUFACTURER RECOMMENDATIONS, INCLUDING, BUT NOT LIMITED TO:
  - i. BRIDGE CONTRACTOR MUST INSTALL MATERIALS IN ACCORDANCE WITH ALL SAFETY AND WEATHER CONDITIONS REQUIRED BY MANUFACTURER OR AS MODIFIED BY APPLICABLE RULES AND REGULATIONS OF LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTION. PRODUCT SHOULD NOT BE INSTALLED IF IT IS RAINING OR SNOWING OR IF SUCH CONDITIONS APPEAR TO BE IMMINENT. MINIMAL APPLICATION TEMPERATURE OF 50 DEGREES F REQUIRED, WITH SURFACE TEMPERATURE OF NO MORE THAN 90 DEGREES F. CONSULT MATERIAL SAFETY DATA SHEETS CREATED BY MANUFACTURER OF PRODUCT FOR COMPLETE HANDLING RECOMMENDATIONS.
  - ii. PRODUCT SHALL BE APPLIED TO HORIZONTAL SURFACES WITH A ROLLER OR PAINTER PAD; PRODUCT SHALL BE APPLIED TO VERTICAL SURFACES WITH A ROLLER OR PAINT PAD OR SPRAYER IF DESIRED. OVERSPRAY MUST BE ELIMINATED TO THE EXTENT POSSIBLE.
  - iii. BRIDGE CONTRACTOR MUST CONDITION THE SPECIFIED PRODUCT AS RECOMMENDED BY THE MANUFACTURER.
  - iv. BRIDGE CONTRACTOR SHALL PREPARE SURFACE AS RECOMMENDED BY MANUFACTURER WHICH SHOULD INCLUDE THOROUGHLY PRESSURE WASHING THE SURFACES TO BE TREATED. NEW WOOD SURFACES HAVE A MILL GLAZE THAT PREVENTS MAXIMUM PENETRATION OF THE SEALANT; THEREFORE, EVEN NEWLY INSTALLED BRIDGES WILL REQUIRE THIS PREP STEP.
  - v. BRIDGE CONTRACTOR SHALL CLEAN UP WORK SITE DAILY AND UPON COMPLETION OF PROJECT, INCLUDING PROPER DISPOSAL OF ALL MATERIALS.
  - vi. BRIDGE CONTRACTOR SHALL PROPOSE A TRAFFIC MAINTENANCE PLAN WITH BID (IF NECESSARY). ANY COST FOR SUCH PLAN SHALL BE BORN BY THE BRIDGE CONTRACTOR.

3. MATERIALS MUST MEET THE FOLLOWING CRITERIA IN ORDER TO BE ACCEPTED FOR THIS PROJECT:

- i. A PROFESSIONAL, PREMIUM QUALITY UV SEALANT MUST BE USED. SEALANTS PRIMARILY MARKETED AND/OR DESIGNED FOR HOMEOWNERS (SUCH AS THOMPSON'S WATER SEAL™, CABOT™, OR OLYMPIC™ PRODUCTS) WILL NOT BE ACCEPTED.
- ii. SEALANT MUST BE PIGMENTED. CLEAR SEALANTS WILL NOT BE ACCEPTED FOR THIS PROJECT. WATER REPELLENTS ALONE WILL NOT BE ACCEPTED FOR THIS PROJECT.
- iii. THE MULTI-STEP SEALANT SYSTEM MUST BE CLIMATE SPECIFIC AND RECOMMENDED FOR THE CLIMATE IN WHICH IT WILL BE APPLIED.
- iv. MANUFACTURER MUST PROVIDE A WRITTEN WARRANTY AGAINST DEFECT OF MATERIALS FOR A MINIMUM OF SIX (6) MONTHS, BEGINNING WITH DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT.
- v. ACRYLIC WOOD FINISH (SEALANT) MUST MEET OR EXCEED THE FOLLOWING PERFORMANCE CRITERIA:
  - 100% ACRYLIC
  - WEIGHT/GALLON 8.59LB / GALLON OR BETTER
  - FLASH POINT GREATER THAN 200 DEGREES F
  - VOC: 240 G/L OR BETTER
- vi. BASE COAT MUST MEET OR EXCEED THE FOLLOWING PERFORMANCE CRITERIA:
  - OIL/ACRYLIC BLEND
  - WEIGHT/GALLON 8.52LB / GALLON OR BETTER
  - FLASH POINT GREATER THAN 200 DEGREES F
  - VOC: 200 G/L OR BETTER

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			REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE	HOFFMAN ESTATES, IL			
						DESIGNED LOADING	BIDDERS			
						85-PSF OR 5 TON GVW (L/360 DEFLECTION)	PAGE			
						APPROVED BY:	DATE APPROVED:	DATE	DRAWN BY:	PROJECT NUMBER
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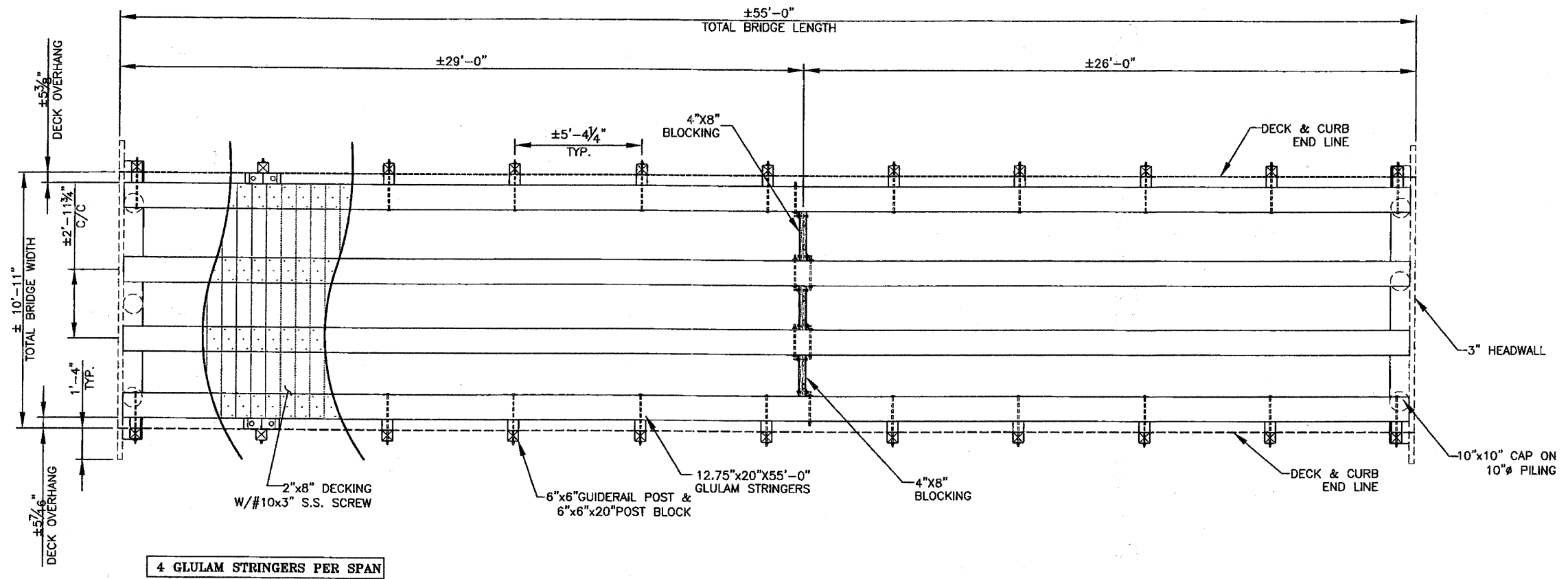
### WATER INFORMATION TABLE

Route:	Higgins Road (IL-72)		S.N.	Unknown		Computed:	LJS		Date:	4/19/2011	
Section:	Sta 364+75		S.N.	Unknown		Checked:			Date:		
County:	Cook		Waterway:	Salt Creek West Branch Tributary A							
Drainage Area	0.80	Sq. Mi.	Existing Low Grade Elevation =	N/A		Proposed Low Grade Elevation =	789.50 ft Sta 365+02				
			Waterway Opening (sq. ft.)*			Created Head (ft.)		Headwater Elevation			
	Flood	Frequency Year	Discharge (cfs)	Existing	Proposed	Natural H.W.E.	Existing	Proposed	Existing	Proposed	
Design		10	118	N/A	70.9	785.25	0.00	0.00	785.25	785.25	
Base		50	201	N/A	182.3	787.42	0.00	0.00	787.42	787.42	
Overtopping		100	250	N/A	364.2	770.39	0.00	0.01	770.39	770.40	
Max.		>100									
		500									
10 Year Velocity through Existing Structure =				N/A		10 Year Velocity through Proposed Structure =				1.50 fps	
			*Based on Natural HW E								
DATUM:			All elevations on NGVD29 Datum								
ALL-TIME H.W.E. & DATE:			770.0 ft. (USGS HA-87, October 1954)								
						Elevations computed from CBBEL HEC-RAS 04/11.					
SCOPE OF WORK:			Proposed bike path bridge.								
			EXISTING STRUCTURE			PROPOSED STRUCTURE					
			Type:	N/A		Type:	Freespan Pedestrian Bridge				
			Length:	N/A		Length:	12'11"				
			Span:	N/A		Span:	55'				
			Height:	N/A		Height:	6.3'				
			Skew:	N/A		Skew:	43o				
			US Invert:	N/A		US Invert:	761.50				
			DS Invert:	N/A		DS Invert:	761.50				

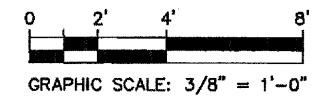
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			REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE			HOFFMAN ESTATES, IL		
						DESIGNED LOADING			WATER INFORMATION TABLE		
						85-PSF OR 5 TON GVW (L/360 DEFLECTION)			DATE	DRAWN BY:	PROJECT NUMBER
					APPROVED BY:	DATE APPROVED:	4/6/11	D. MATTHEWS	209031	49 of 86	005



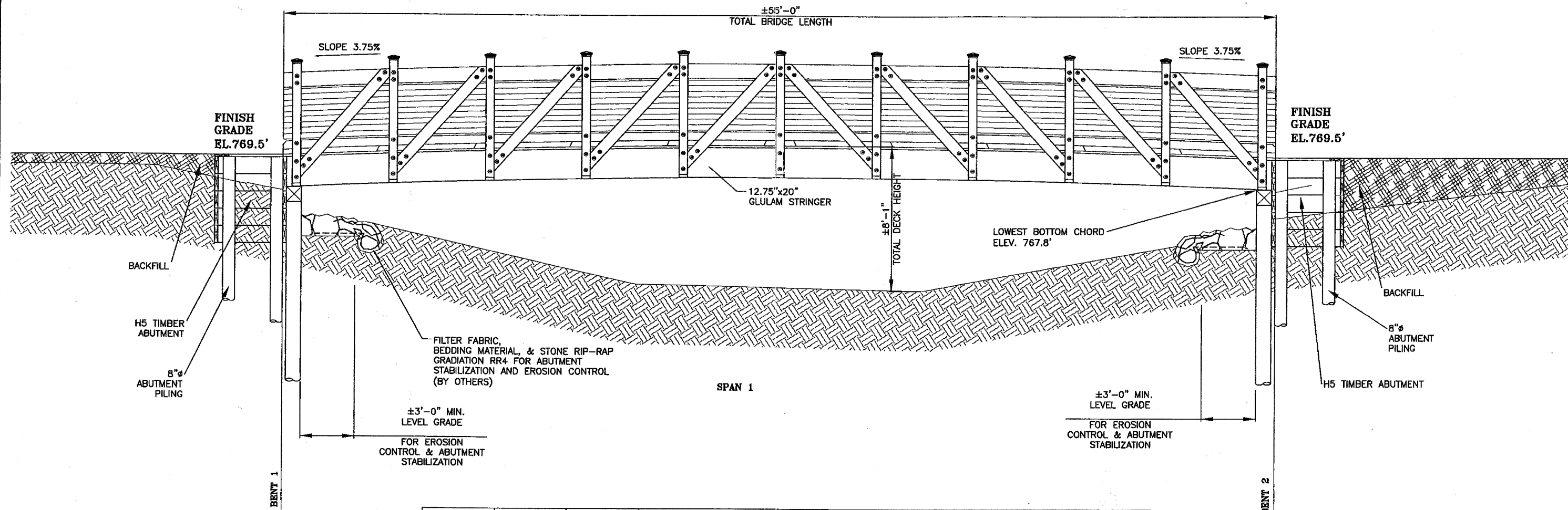


1 PLAN - STRINGER LAYOUT  
SCALE: 3/8" = 1'-0"



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					DESIGNED LOADING		PLAN -	
					85-PSF OR 5 TON GVW (L/360 DEFLECTION)		STRINGER LAYOUT	
					APPROVED BY:	DATE APPROVED:	DATE	DRAWN BY:
							4/6/11	D. MATTHEWS
							PROJECT NUMBER	SHEET NUMBER
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**PILE DATA (2 ABUTMENTS)**

TYPE: TIMBER 10" ABUTMENT  
8" WING WALL

EST. LENGTH: 15 FEET

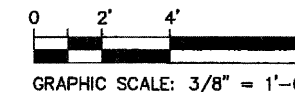
NUMBER REQ'D: 6-10" PILES  
8-8" PILES

NOMINAL REQ'D BRG: 45 KIPS (10") 15 KIPS (8")

ALLOWABLE RESISTANCE AVAILABLE: 15 KIPS (10") 5 KIPS (8")

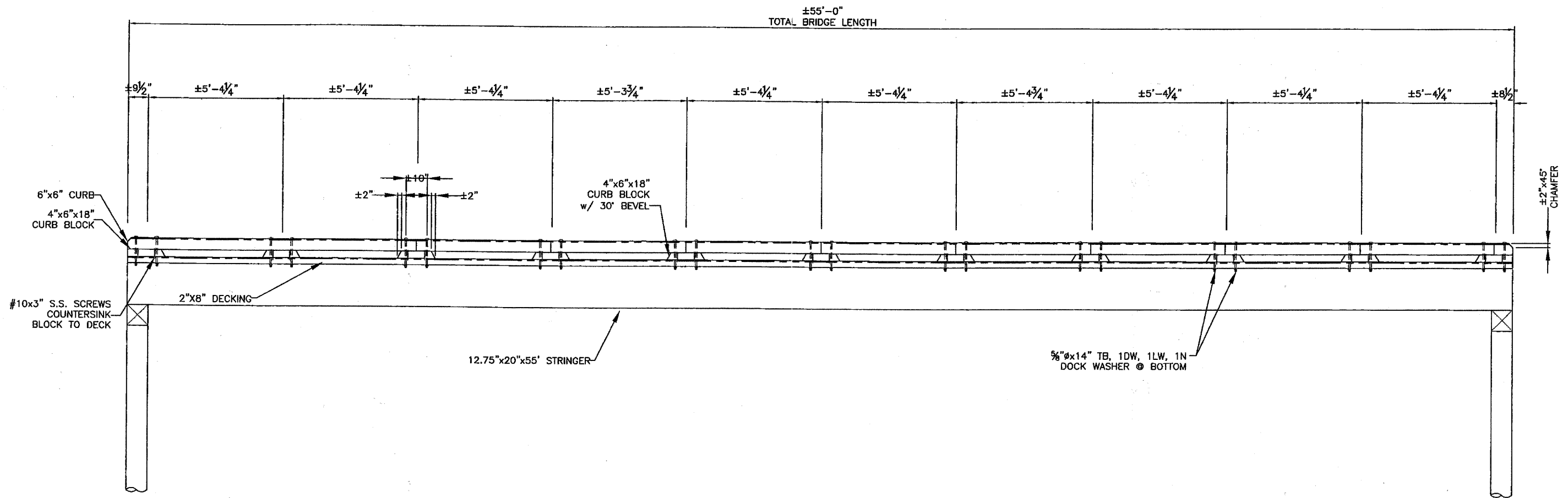
FLOOD	FREQUENCY YEAR	DISCHARGE (cfs)	WATERWAY OPENING (sq. ft.)*			CREATED HEAD (FT.)		HEADWATER ELEVATION	
			EXISTING	PROPOSED	NATURAL H.W.E.	EXISTING	PROPOSED	EXISTING	PROPOSED
DESIGN	10	118	N/A	78.9	765.25	0.00	0.00	765.25	765.25
BASE	50	201	N/A	162.3	767.42	0.00	0.00	767.42	767.42
OVERTOPPING	100	250	N/A	364.2	770.39	0.00	0.01	770.39	770.40
MAX.	>100								
	500								

① ELEVATION - NORTH  
SCALE: 3/8" = 1'-0"

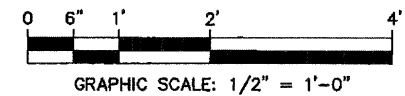


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		REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL	
					DESIGNED LOADING		ELEVATION	
					85-PSF OR 5 TON GVW (L/360 DEFLECTION)			
					APPROVED BY:	DATE APPROVED:	DATE	DRAWN BY:
							209031	SHEET NUMBER
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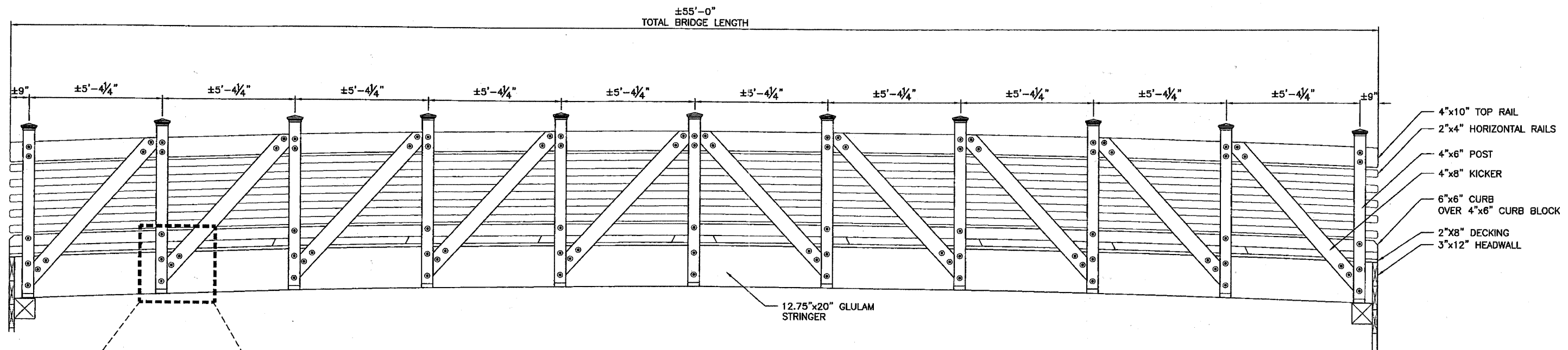


① ELEVATION - CURB  
SCALE: 1/2" = 1'-0"

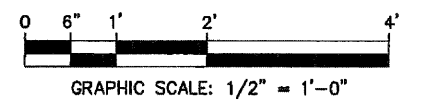


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			REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE	HOFFMAN ESTATES, IL				
						DESIGNED LOADING	ELEVATION - CURB				
						85-PSF LIVE LOAD (L/360 DEFLECTION)		DATE	DRAWN BY:	PROJECT NUMBER	SHEET NUMBER
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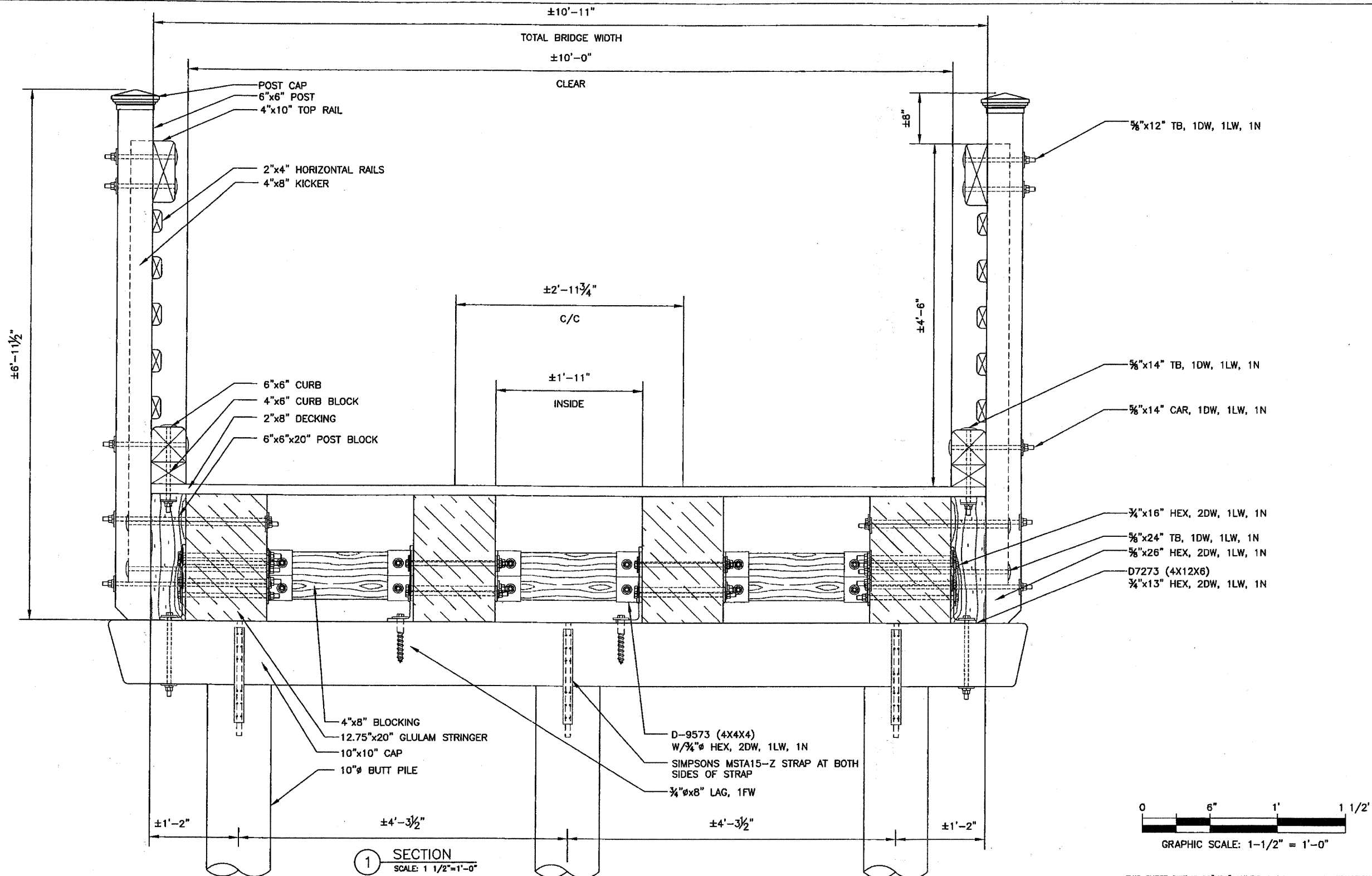
① ELEVATION - POSTS  
SCALE: 1/2" = 1'-0"



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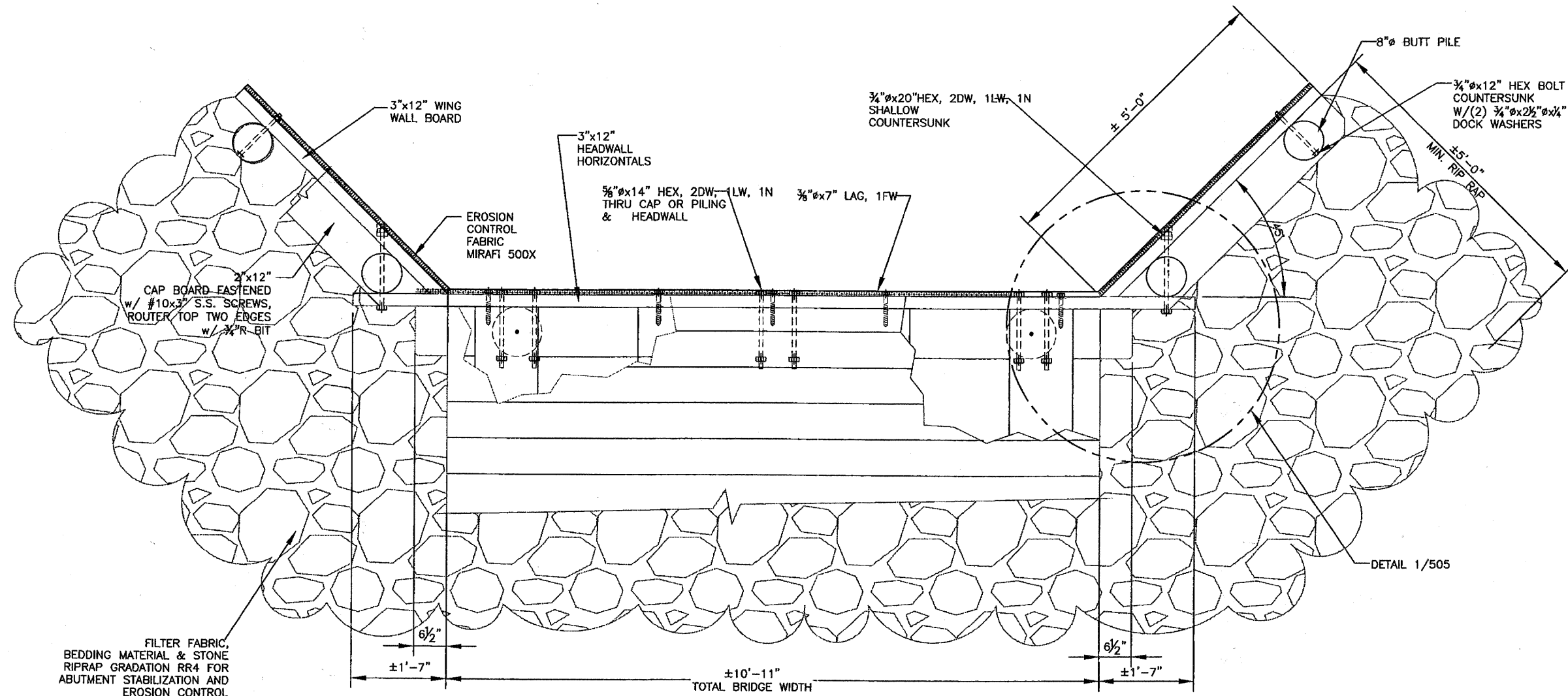
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		REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE	HOFFMAN ESTATES, IL			
					DESIGNED LOADING	ELEVATION - POSTS			
					85-PSF OR 5 TON GVW (L/360 DEFLECTION)	DATE	DRAWN BY:	PROJECT NUMBER	SHEET NUMBER:
					APPROVED BY:	4/6/11	D. MATTHEWS	209031	54 of 86
					DATE APPROVED:	203			



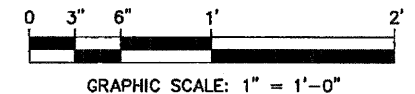


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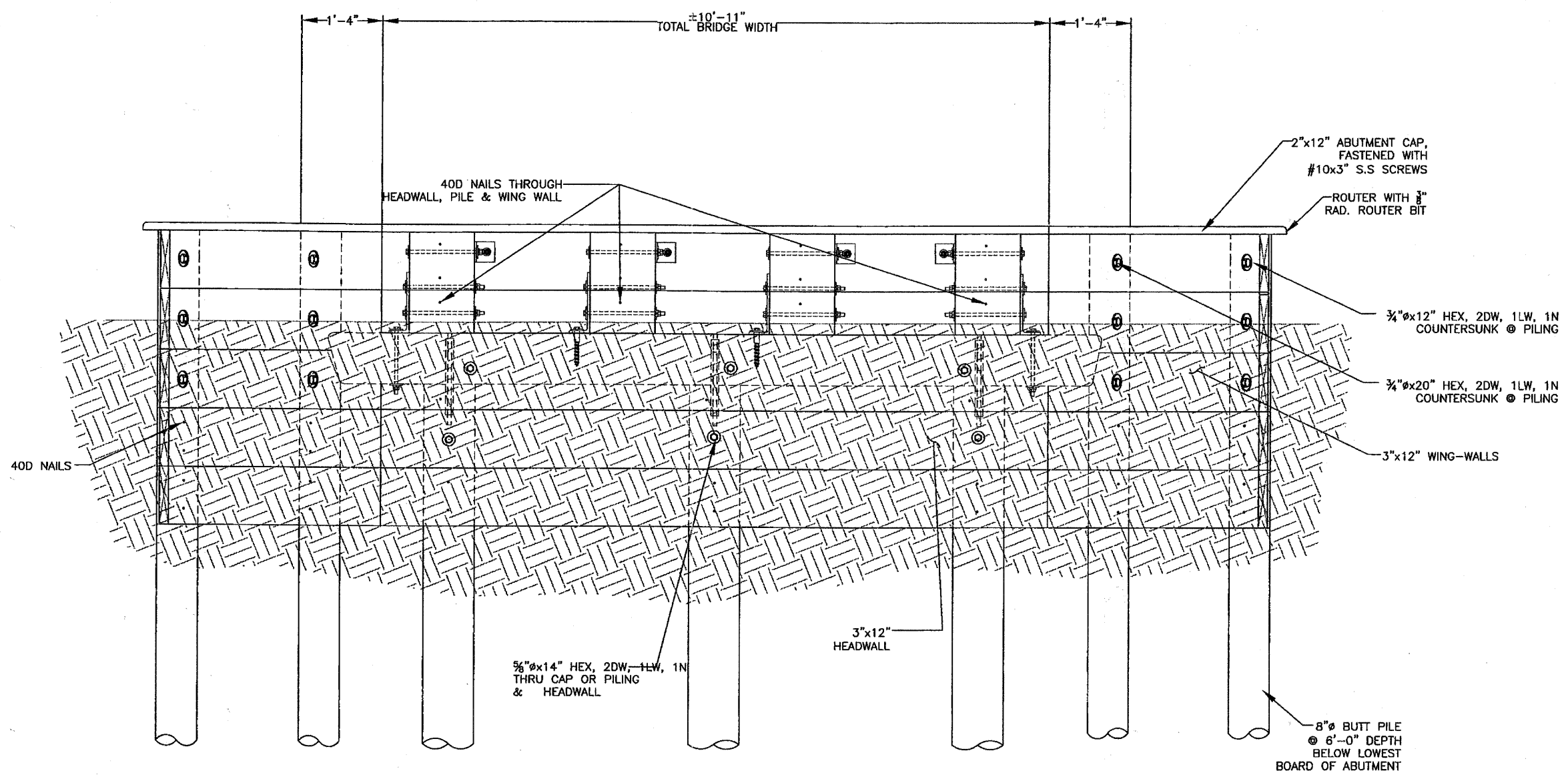
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					DESIGNED LOADING		SECTION	
					85-PSF OR 5 TON GVW (L/360 DEFLECTION)			
					APPROVED BY:	DATE APPROVED:	DATE	DRAWN BY:
							4/6/11	D. MATTHEWS
							PROJECT NUMBER	SHEET NUMBER:
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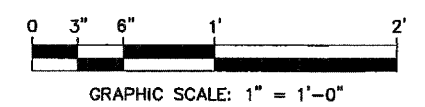
1 ENLARGE - ABUTMENT PLAN  
SCALE: 1"=1'-0"



ENGINEER:	LICENSED:	REVISIONS			PROJECT DESCRIPTION		HIGGINS BIKE PATH PROJECT			
		REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL			
					DESIGNED LOADING		ENLARGED - ABUTMENT PLAN			
					85-PSF OR 5 TON GVW (L/360 DEFLECTION)		DATE	DRAWN BY:	PROJECT NUMBER	SHEET NUMBER:
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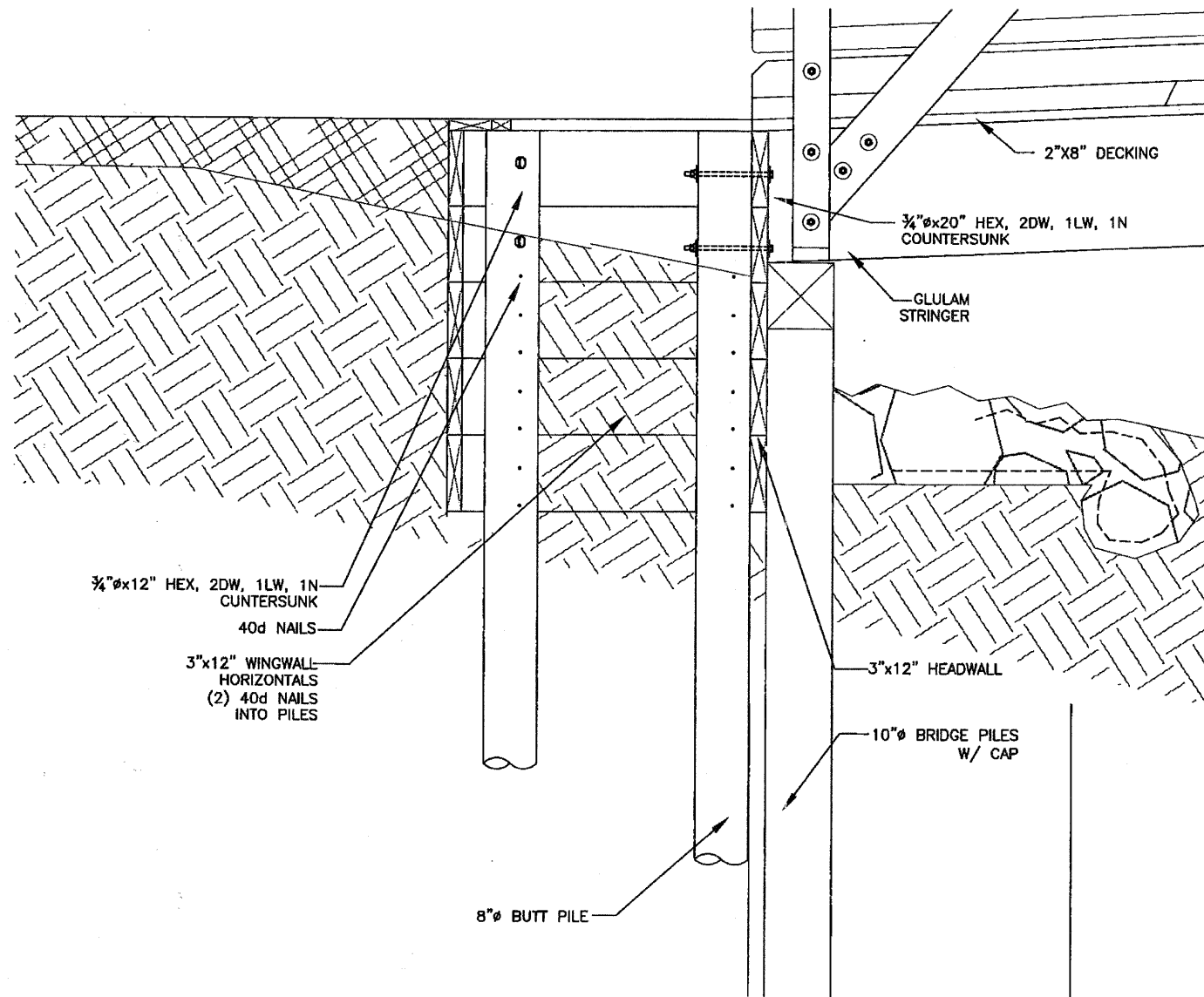


① ENLARGE - ABUTMENT ELEVATION  
SCALE: 1" = 1'-0"

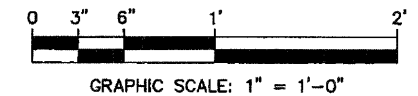


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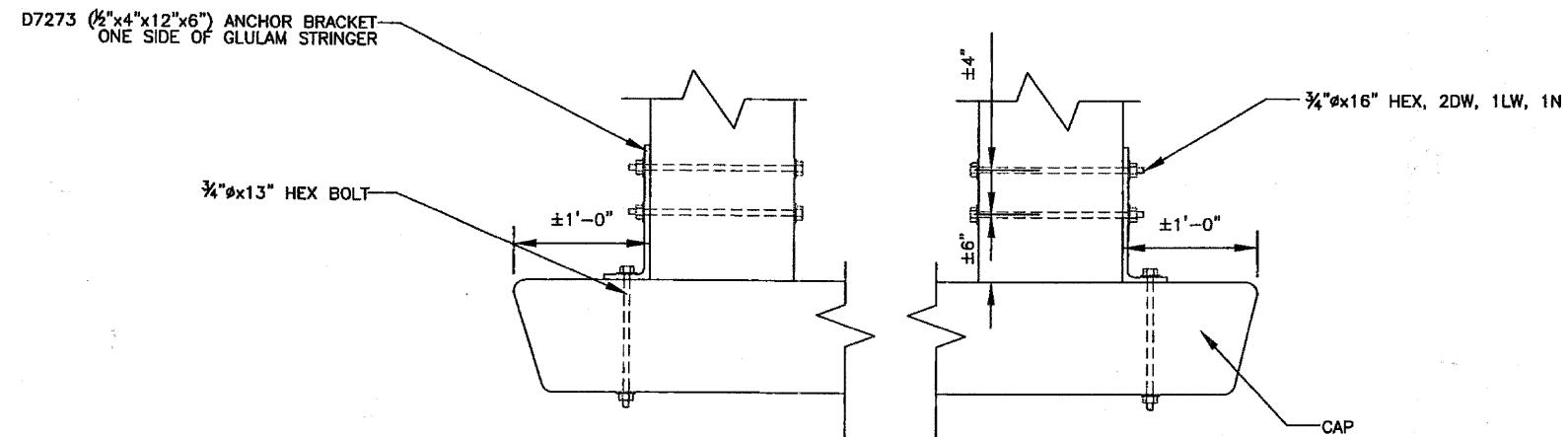
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		REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL	
					DESIGNED LOADING		ENLARGED- ABUTMENT ELEVATION	
					85-PSF OR 5 TON GVW (L/360 DEFLECTION)		DATE	DRAWN BY:
					APPROVED BY:	DATE APPROVED:	4/6/11	D. MATTHEWS
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① ENLARGE - ABUTMENT SECTION @ WINGWALL  
SCALE: 1" = 1'-0"



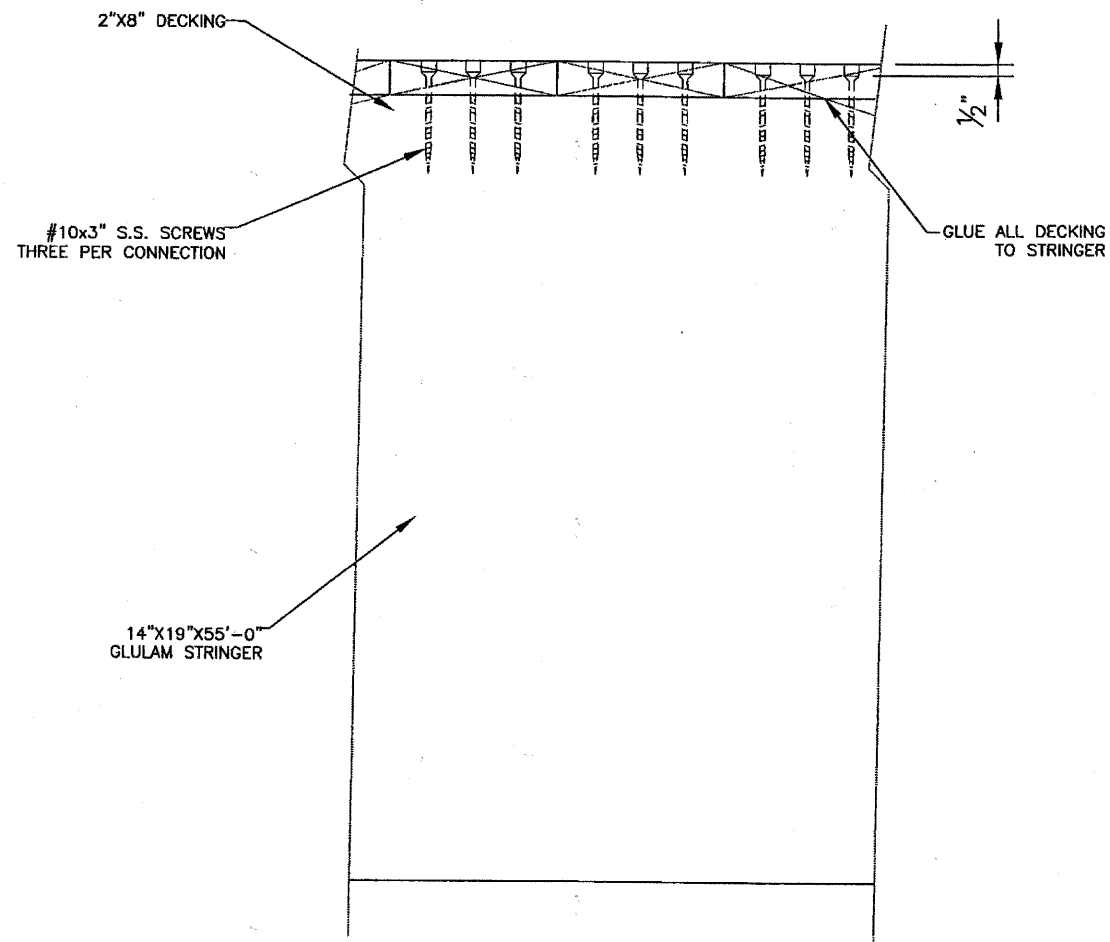
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		REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL				
						DESIGNED LOADING		ENLARGED - ABUTMENT SECTION @ WINGWALL			
						85-PSF OR 5 TON GVW (L/360 DEFLECTION)					
						APPROVED BY:	DATE APPROVED:	DATE	DRAWN BY:	PROJECT NUMBER	SHEET NUMBER:
								4/6/11	D. MATTHEWS	209031	58 of 86 403



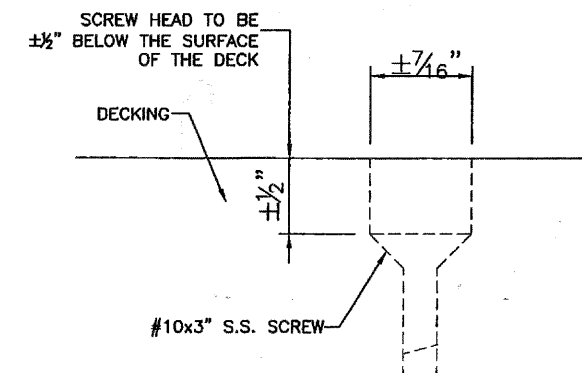
1 DETAILS-- GLULAM MOUNTING  
SCALE: N.T.S.

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						DESIGNED LOADING		DETAIL -		
						85-PSF OR 5 TON GVW (L/360 DEFLECTION)		GLULAM MOUNTING		
						APPROVED BY:	DATE APPROVED:	DATE	DRAWN BY:	PROJECT NUMBER
							4/6/11	D. MATTHEWS	209031	59 of 86 <b>501</b>



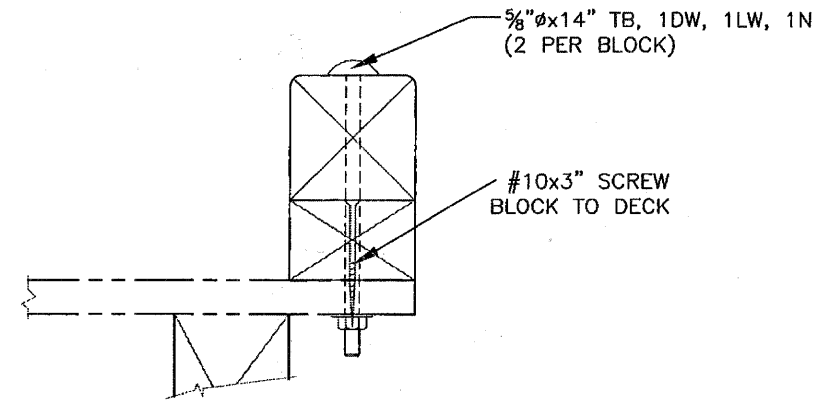
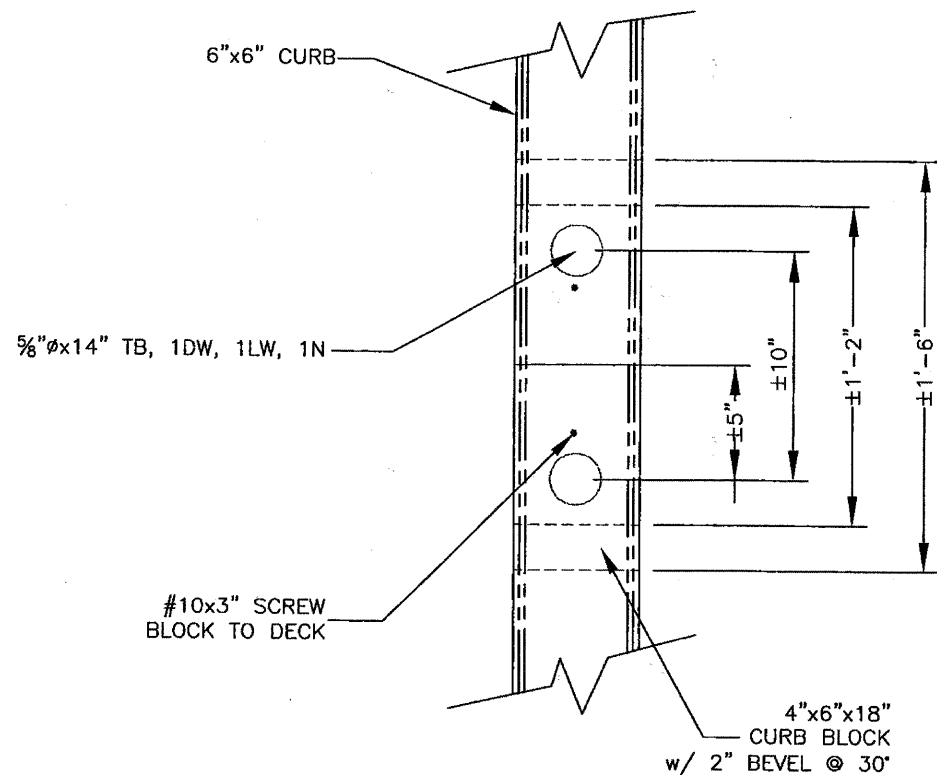
① GLULAM DECKING  
SCALE: N.T.S.



② DECKING COUNTERSINK  
SCALE: N.T.S.

THIS SHEET SIZE IS 22\"/>

	ENGINEER:	LICENSED:	REVISIONS			PROJECT DESCRIPTION		HIGGINS BIKE PATH PROJECT			
			REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL			
						DESIGNED LOADING		DETAILS -			
						85-PSF OR 5 TON GVW (L/360 DEFLECTION)		DECKING AND COUNTERSINK			
						APPROVED BY:	DATE APPROVED:	DATE	DRAWN BY:	PROJECT NUMBER	SHEET NUMBER
								4/6/11	D. MATTHEWS	209031	60 of 86 <b>502</b>

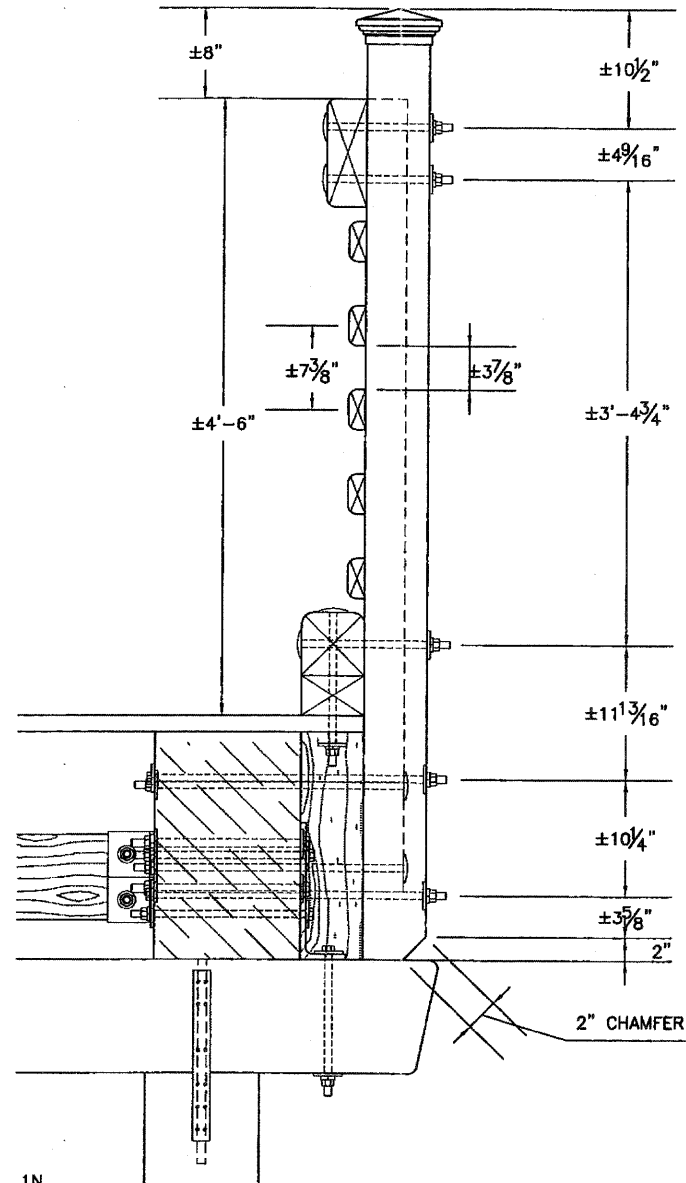


**SECTION**

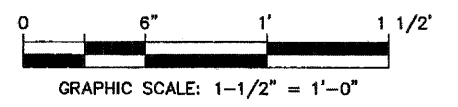
THIS SHEET SIZE IS 22"x34" ANYTHING SMALLER IS A REDUCTION

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		REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL	
					DESIGNED LOADING		DETAIL -	
					85-PSF OR 5 TON GVW (L/360 DEFLECTION)		CURB	
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					4/6/11	D. MATTHEWS	209031	61 of 86 503



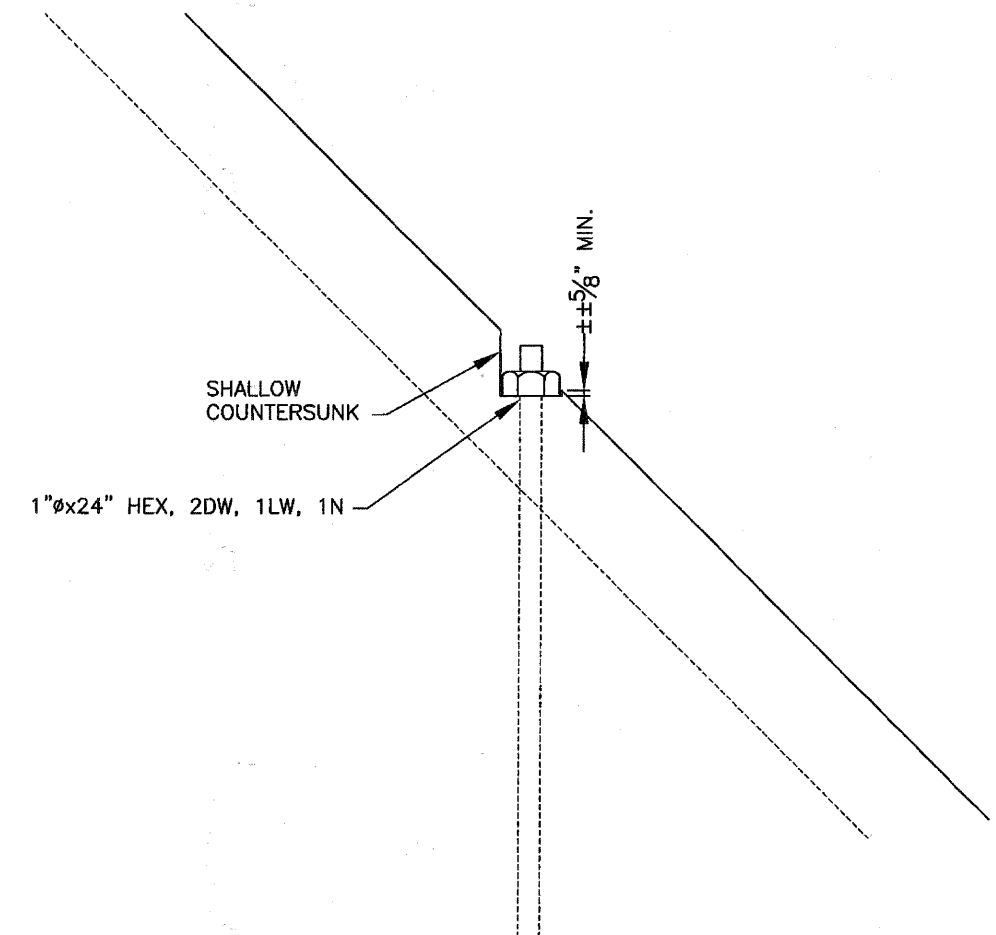
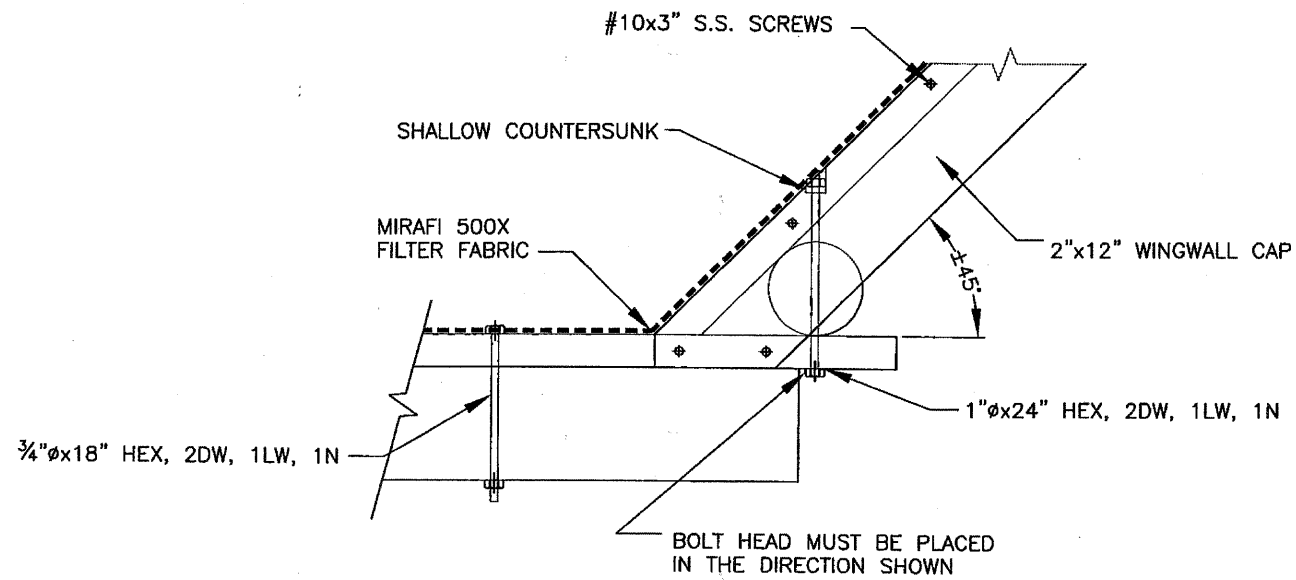


1 DETAIL - GUIDERAIL POST  
SCALE: 1 1/2" = 1'-0"



THIS SHEET SIZE IS 22"x34" ANYTHING SMALLER IS A REDUCTION

	ENGINEER:	LICENSED:	REVISIONS			PROJECT DESCRIPTION		HIGGINS BIKE PATH PROJECT		
			REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL		
						DESIGNED LOADING		DETAIL -		
						85-PSF OR 5 TON GVW (L/360 DEFLECTION)		GUIDERAIL POST		
						APPROVED BY:	DATE APPROVED:	DATE	DRAWN BY:	PROJECT NUMBER
							4/6/11	D. MATTHEWS	209031	62 of 86 <b>504</b>



① DETAILS - ABUTMENT  
SCALE: N.T.S.

THIS SHEET SIZE IS 22"x34" ANYTHING SMALLER IS A REDUCTION

ENGINEER:	LICENSED:	REVISIONS			PROJECT DESCRIPTION		HIGGINS BIKE PATH PROJECT			
		REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE		HOFFMAN ESTATES, IL			
					DESIGNED LOADING		DETAILS - ABUTMENT			
					85-PSF OR 5 TON GVW (L/360 DEFLECTION)		DATE	DRAWN BY:	PROJECT NUMBER	SHEET NUMBER:
					APPROVED BY:	DATE APPROVED:	4/6/11	D. MATTHEWS	209031	63 of 86 505

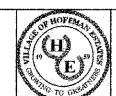


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65 of 86

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DETAILSH.DWG

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

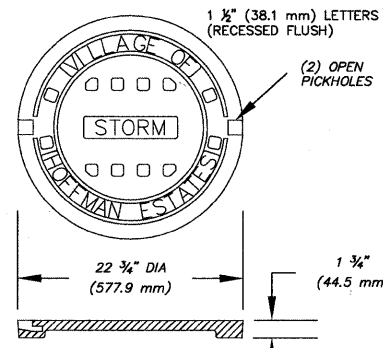


VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project

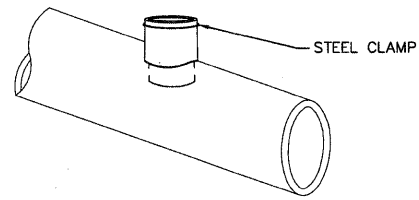
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	65
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	



HEAVY DUTY  
MAT'L ASTM A48 CL35  
MACHINED BEARING SURFACE  
COVER WT: 125 LBS (56.7 kg)

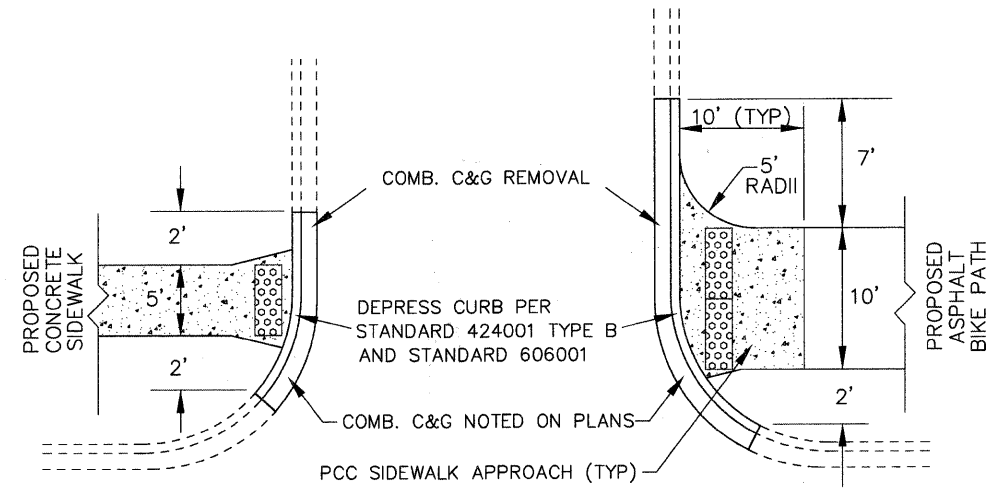
STORM COVER DETAIL



KOR-N-TEE CONNECTOR OR APPROVED EQUAL

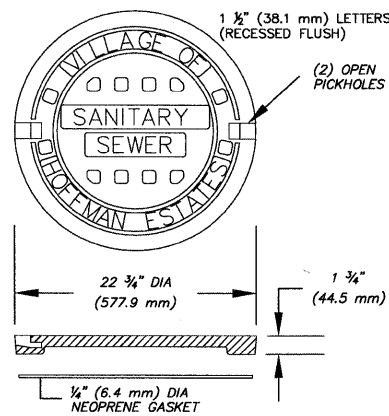
NOTES:

1. THE HOFFMAN ESTATES DEPARTMENT OF PUBLIC WORKS 847 490-6800 AND THE ENGINEERING DIVISION 847 252-5800 SHALL BE NOTIFIED BEFORE THE COMMENCEMENT OF WORK AND WHEN THE PIPE IS EXPOSED.
2. THE CONNECTION SHALL BE BACKFILLED COMPLETELY TO WITHIN SIX INCHES OF THE GROUND SURFACE WITH CA-6, CRUSHED STONE OR GRAVEL.
3. ONLY A PROFESSIONAL CONTRACTOR SHALL INSTALL THE CONNECTOR ACCORDING TO MANUFACTURERS REQUIREMENTS. THE PUBLIC WORKS DEPARTMENT IS NOT AVAILABLE TO ASSIST IN THE DIRECT CONNECTION TO THE STORM SEWER.
4. KOR-N-TEE SEWER CONNECTORS, PART NO. 006-5 THRU 9, OR APPROVED EQUAL.
5. EXISTING PIPE SHALL BE CORED ONLY TO GAIN ACCESS.



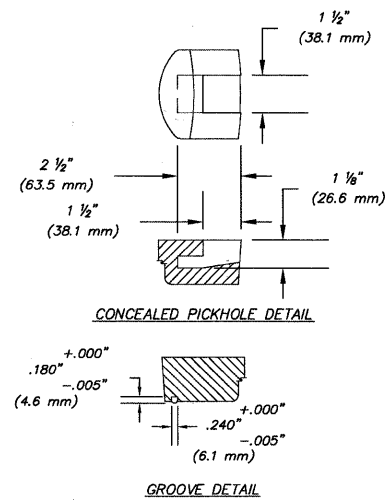
PROPOSED DEPRESSED CURB & GUTTER  
EXIST. CURB & GUTTER NOT DEPRESSED

TYPICAL PCC SIDEWALK  
APPROACH FOR BIKE PATH



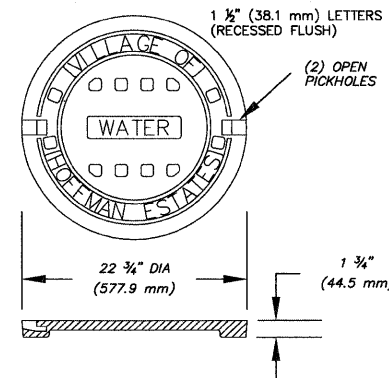
HEAVY DUTY  
MAT'L ASTM A48 CL35  
MACHINED BEARING SURFACE  
COVER WT: 125 LBS (56.7kg)

SANITARY COVER DETAIL



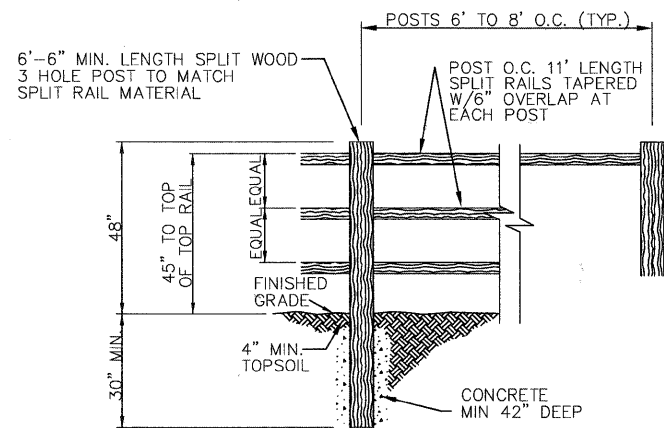
MANHOLE COVER WITH  
GROOVED GASKET SEAL  
& CONCEALED PICKHOLES  
TO REDUCE SURFACE  
WATER INFLOW.

DIRECT CONNECTION TO  
STORM SEWER DETAIL



HEAVY DUTY  
MAT'L ASTM A48 CL35  
MACHINED BEARING SURFACE  
COVER WT: 125 LBS (56.7 kg)

WATER COVER DETAIL



3-RAIL SPLIT RAIL FENCE DETAIL

POST NOTES:

EACH POST SHALL BE SET  
IN CONCRETE MIN. 42" DEPTH

WOOD NOTES:

ALL WOOD SHALL BE CEDAR

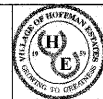
GENERAL NOTE:

CONTRACTOR TO SUBMIT SHOP  
DRAWING OF PROPOSED MATERIAL  
AND SAMPLES OF TYPICAL POST  
AND RAIL FOR APPROVAL PRIOR TO  
INSTALLATION

FILE NAME =  
DETAILSH.DWG

DESIGNED —  
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CHECKED —  
DATE —

REVISED —  
REVISED —  
REVISED —  
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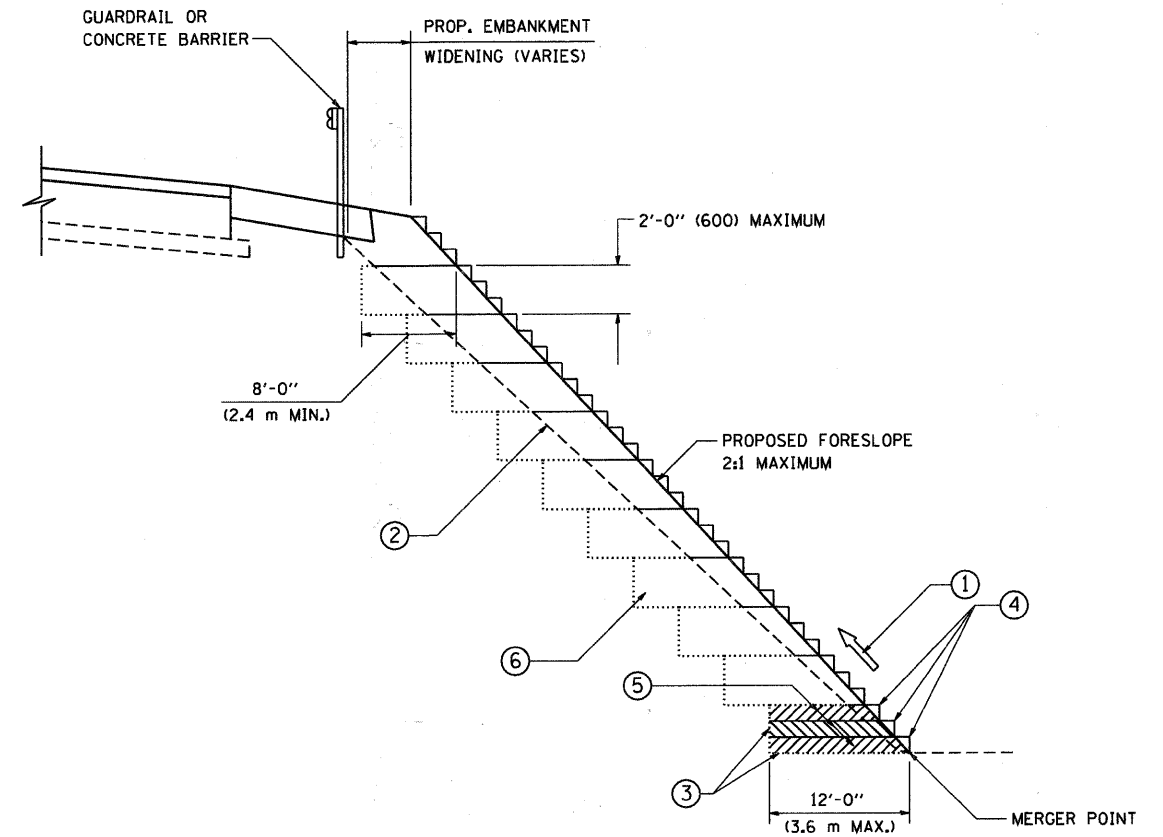


VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Village Detail Sheet

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
341	08-00080-00-BT	Cook	86	66
CONTRACT NO. 63233			ILLINOIS FED. AID PROJECT CMM 9003(243)	



**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

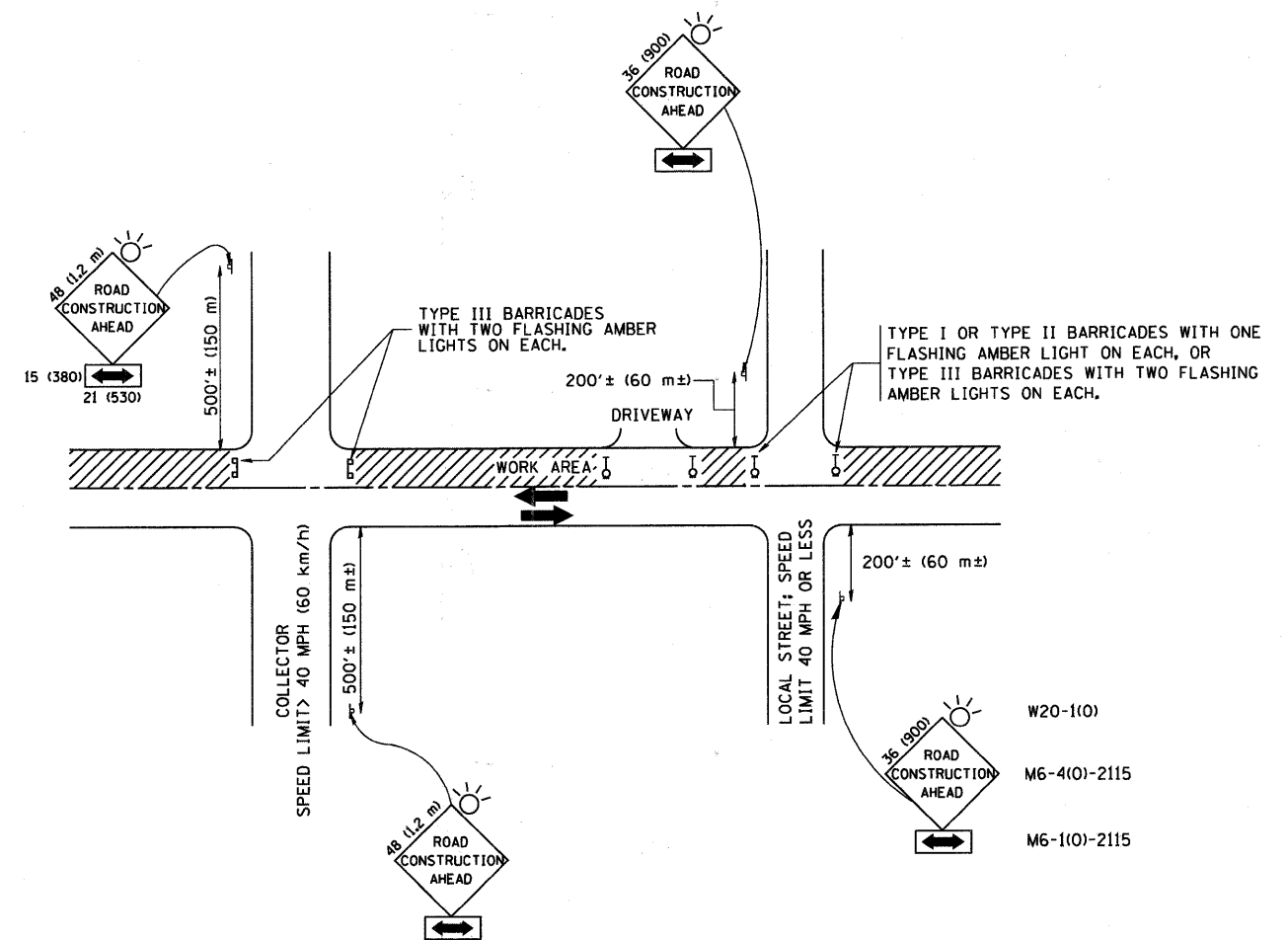
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd51.dgn	USER NAME = geglienobt	DESIGNED -	REVISED -
		DRAWN - CADD	REVISED -
		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>BENCHING DETAIL FOR EMBANKMENT WIDENING</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			86	67
BD-51		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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

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

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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		DRAWN -	REVISED - A. HOUSEH 03-06-96
		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

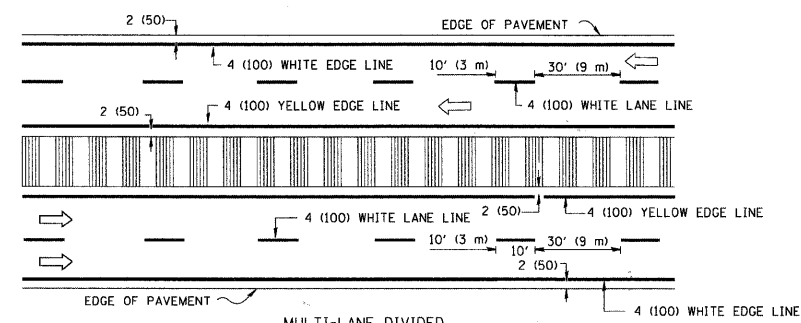
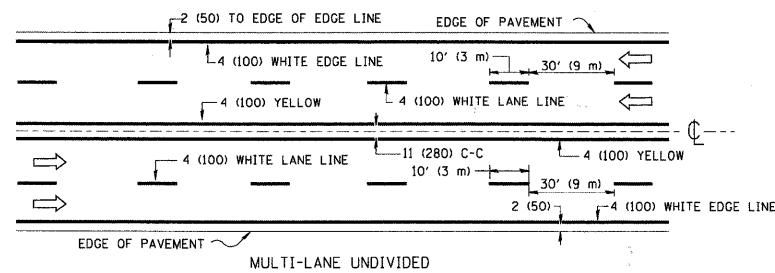
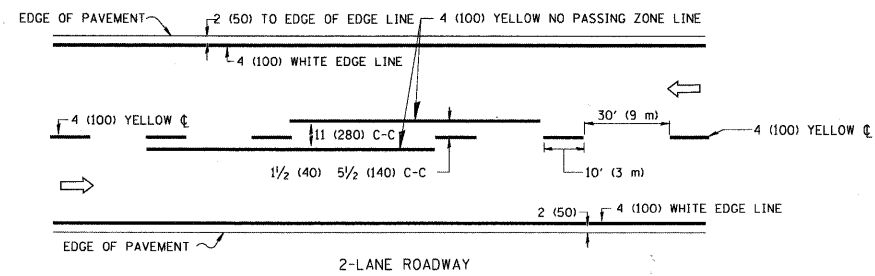
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

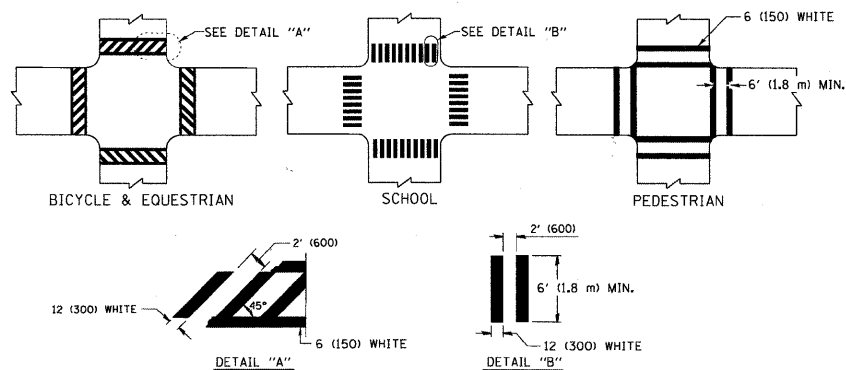
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			86	68
TC-10			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



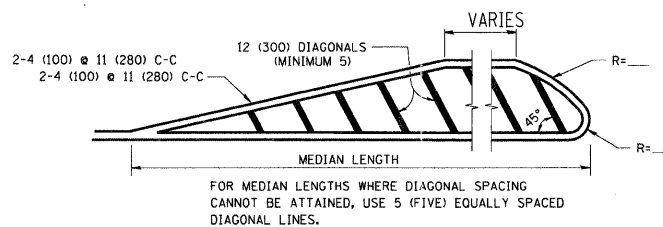
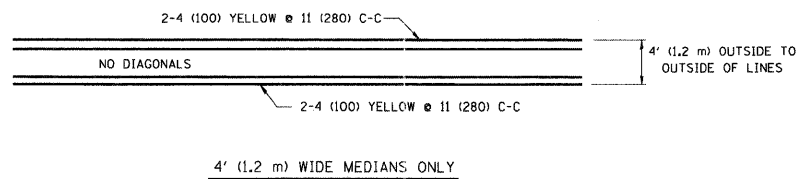


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

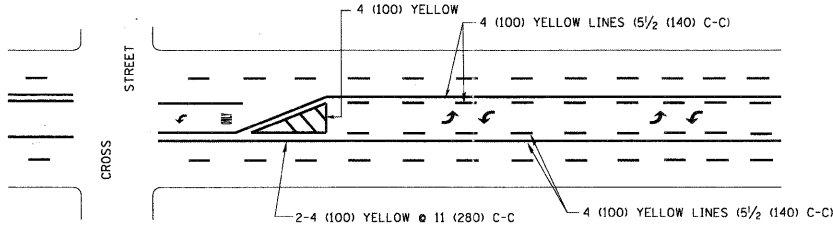


TYPICAL CROSSWALK MARKING

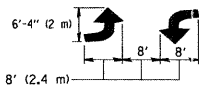


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

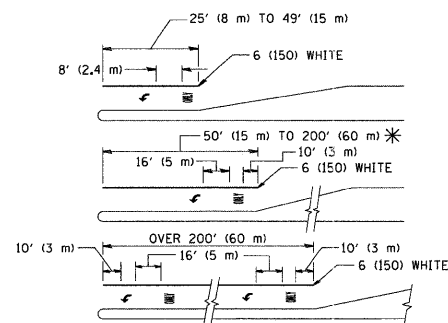


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

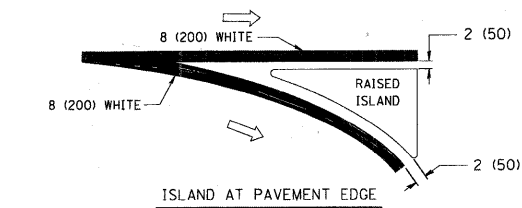
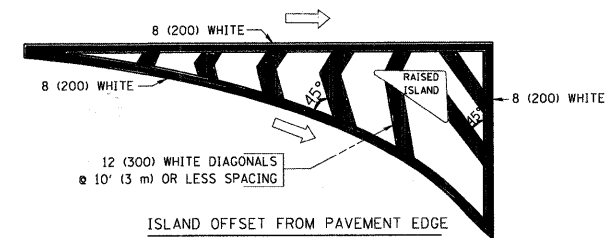


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

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

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

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

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		PLOT SCALE = 50,000' / IN.	REVISED -
		PLOT DATE = 9/9/2009	REVISED -
		DATE - 03-19-90	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

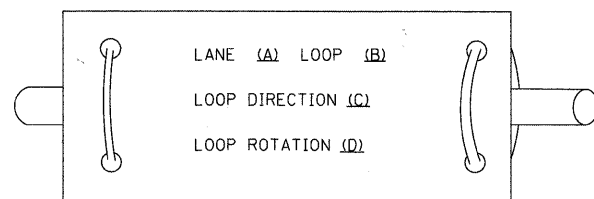
DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13		86	69
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		

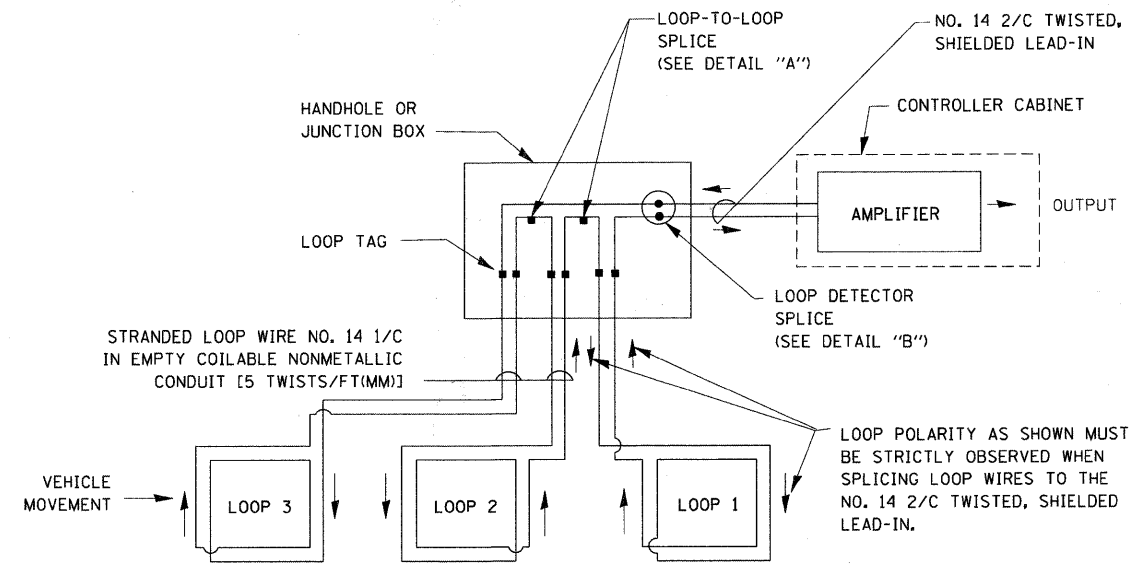
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND HEAT WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

**LOOP LEAD-IN CABLE TAG**

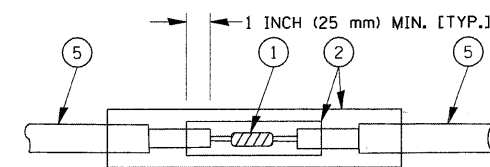


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

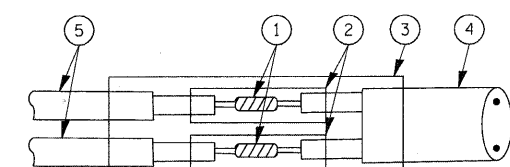


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

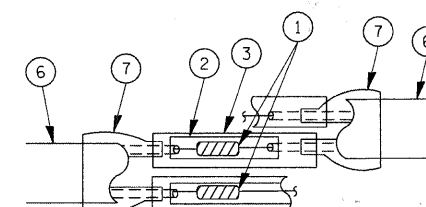


DETAIL "A"  
LOOP-TO-LOOP SPLICE

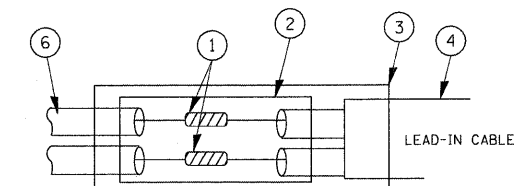


DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

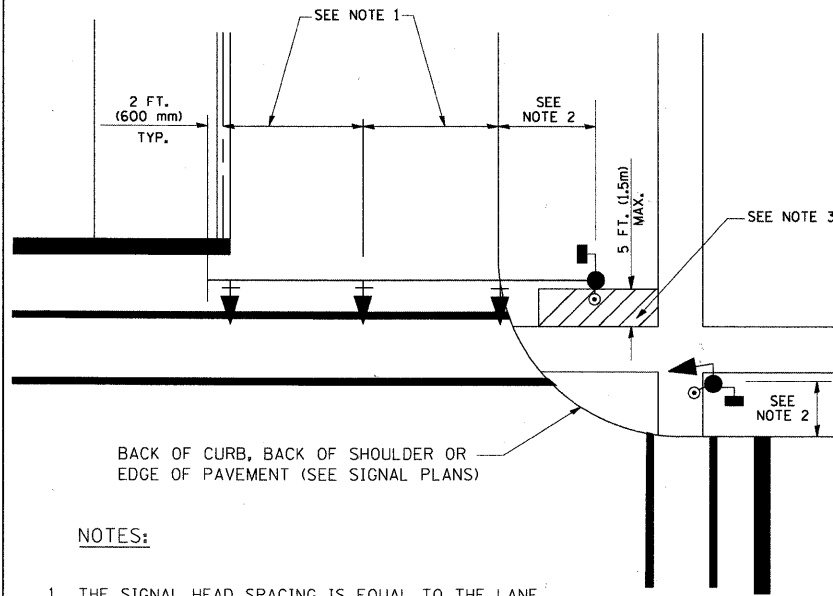
**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwworking\pwwid01\BAUERDL\0100315\ts05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 1 OF 6 SHEETS	STA.	TO STA.	86	70		
		CHECKED - DAD	REVISED -						<b>TS-05</b>		CONTRACT NO.	
		PLOT SCALE = 50,0000' / IN.	REVISED -						FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	
		PLOT DATE = 11/4/2009	DATE - 10-28-09	REVISED -								

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST**

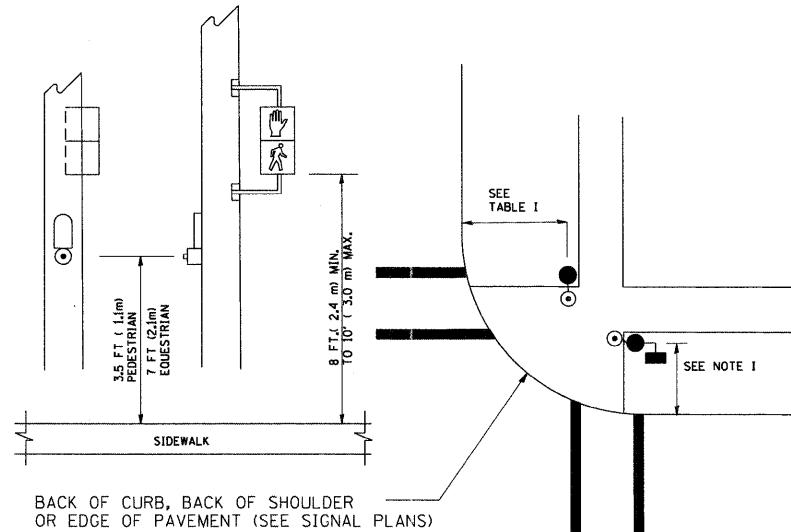
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

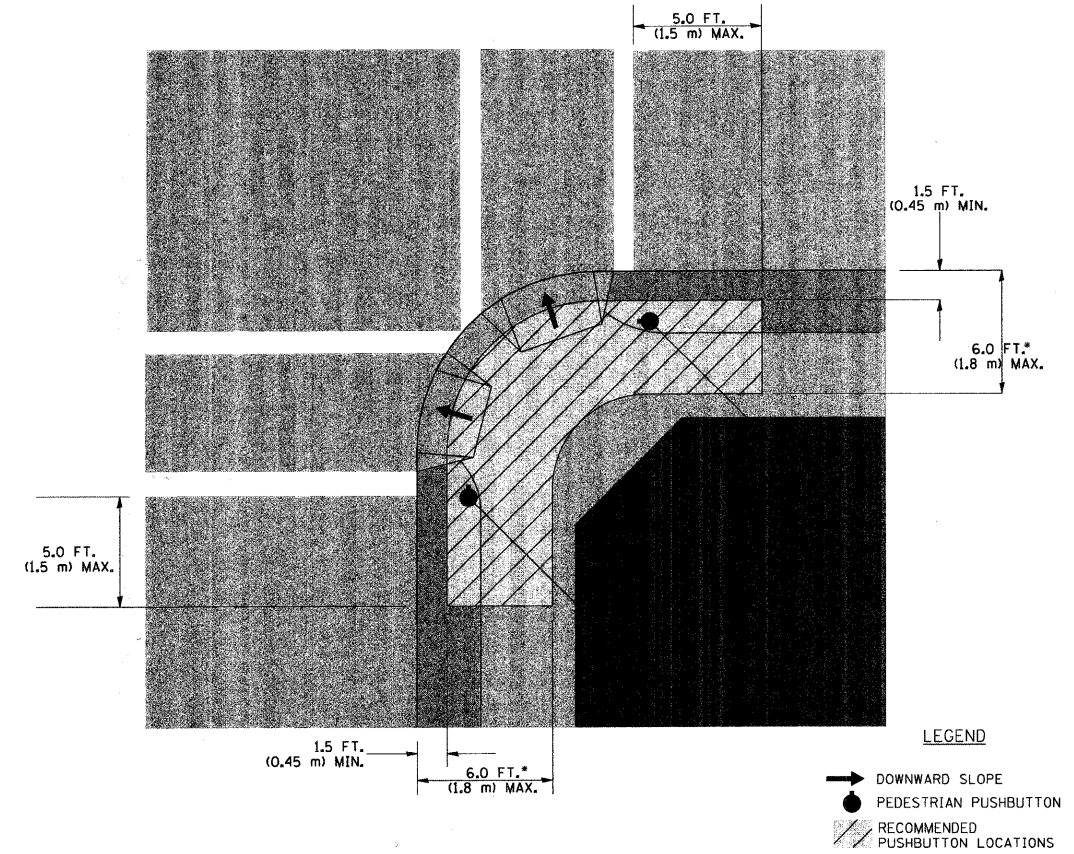
**PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT ( 1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3-m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

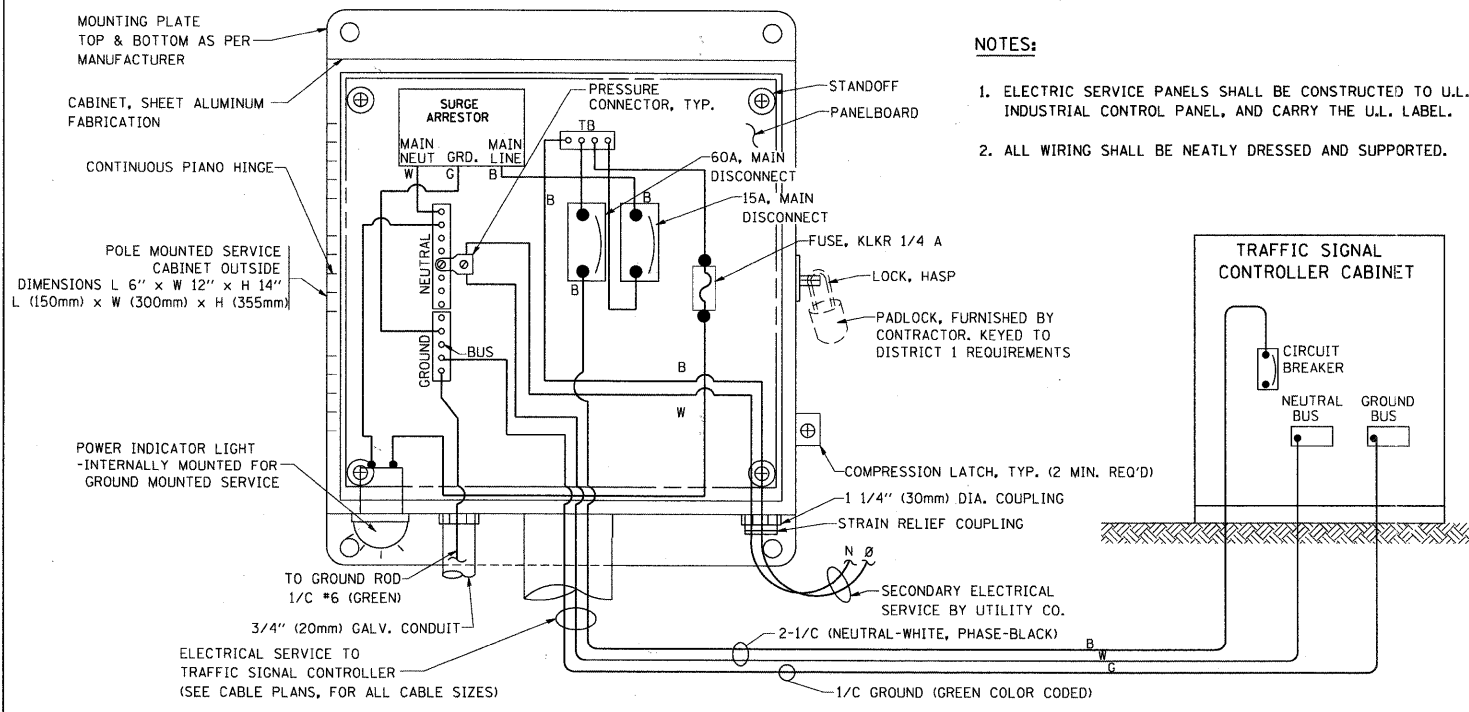
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

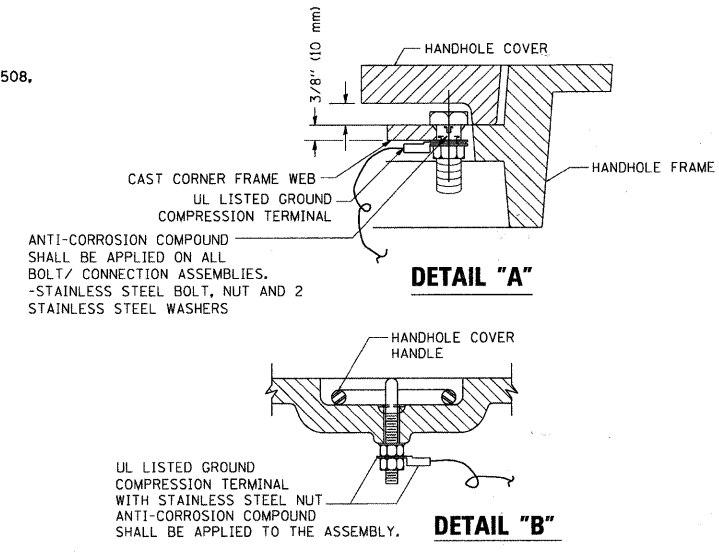
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.



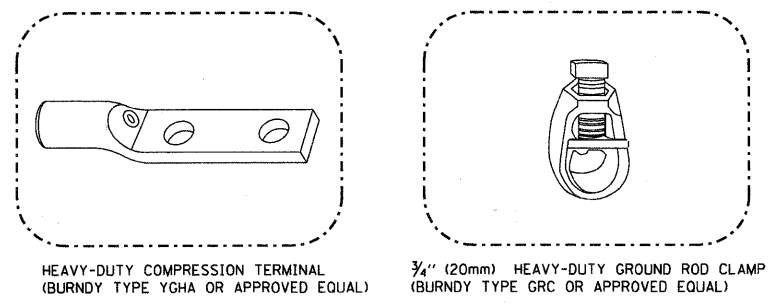
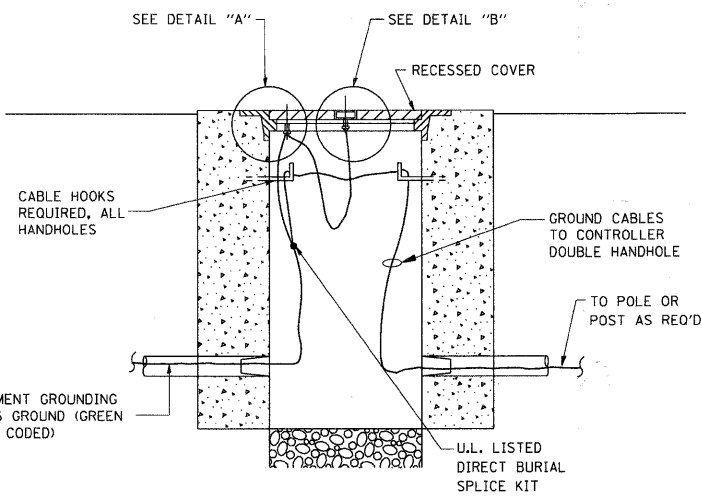
**ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)**  
**SERVICE INSTALLATION POLE MOUNT (SHOWN)**  
 (NOT TO SCALE)



**NOTES:**

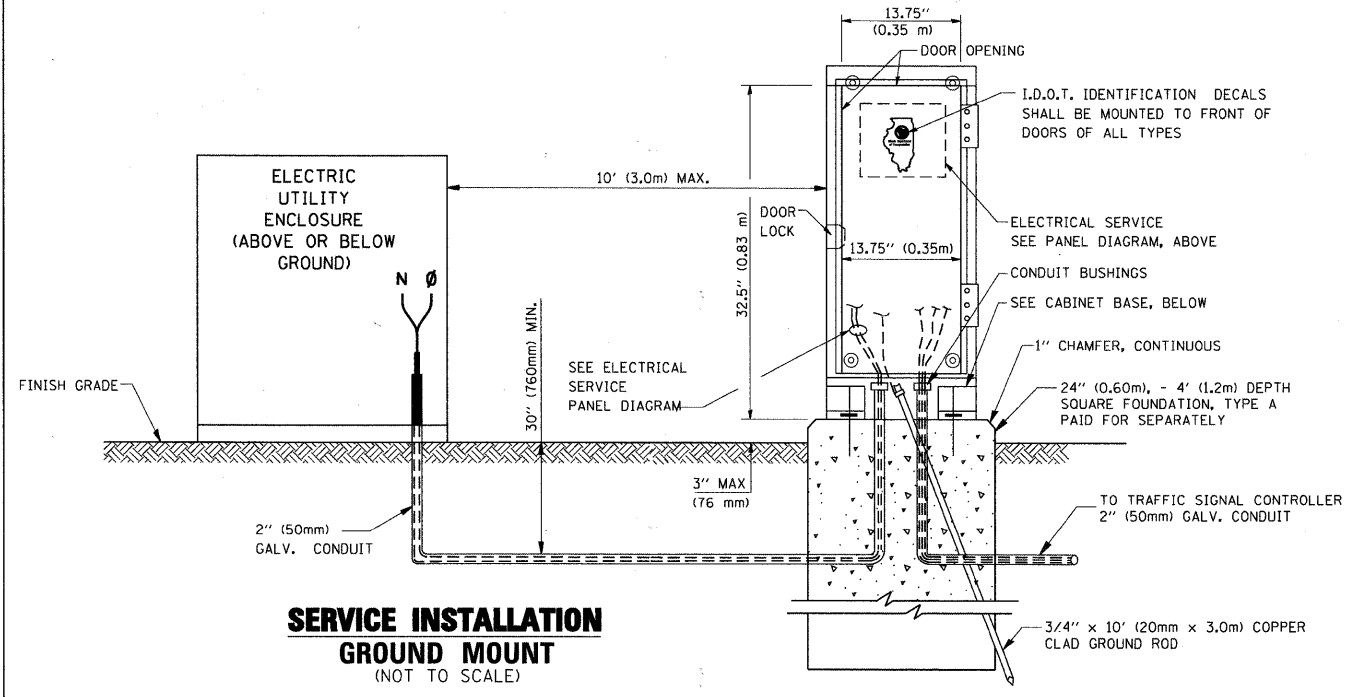
**GROUNDING SYSTEM**

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

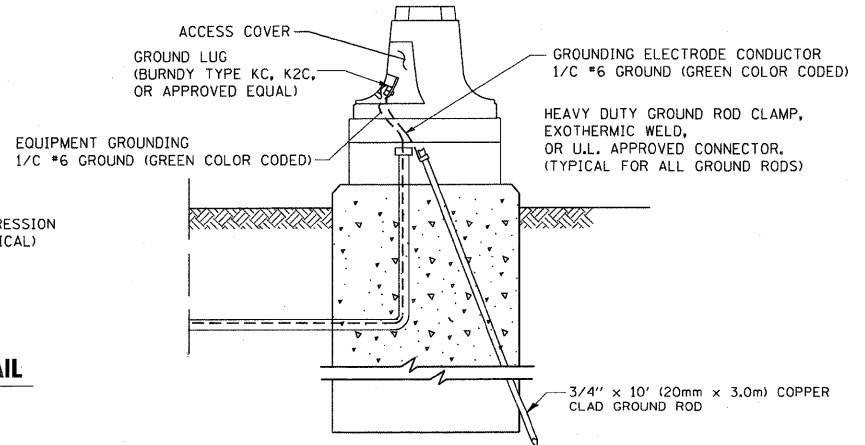
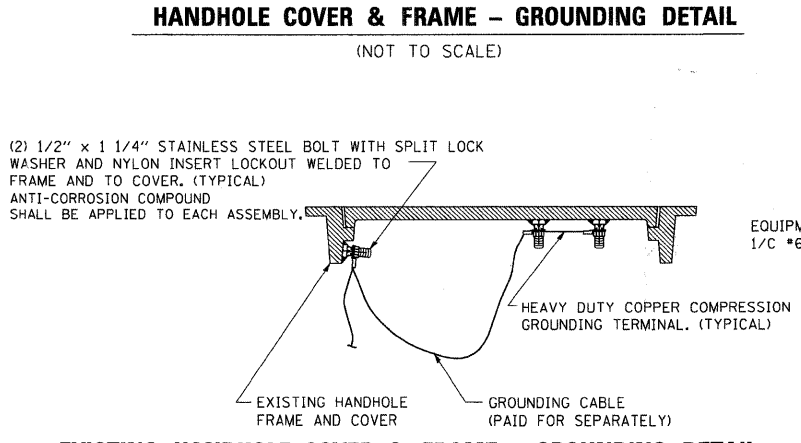


**NOTES:**

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

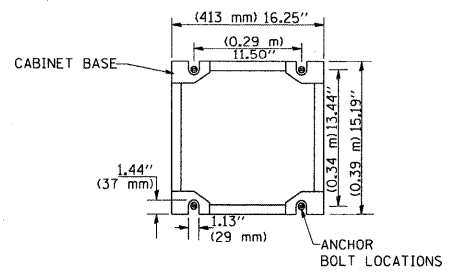


**SERVICE INSTALLATION GROUND MOUNT**  
 (NOT TO SCALE)



**MAST ARM POLE / POST-GROUNDING DETAIL**  
 (NOT TO SCALE)

**CABINET – BASE BOLT PATTERN**  
 (NOT TO SCALE)



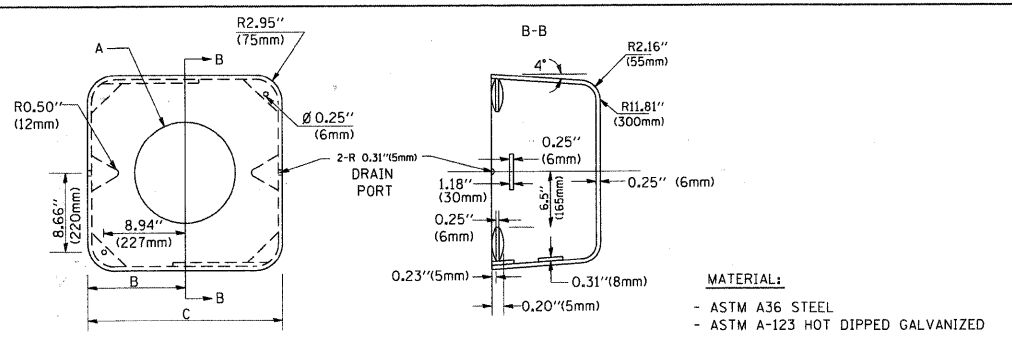
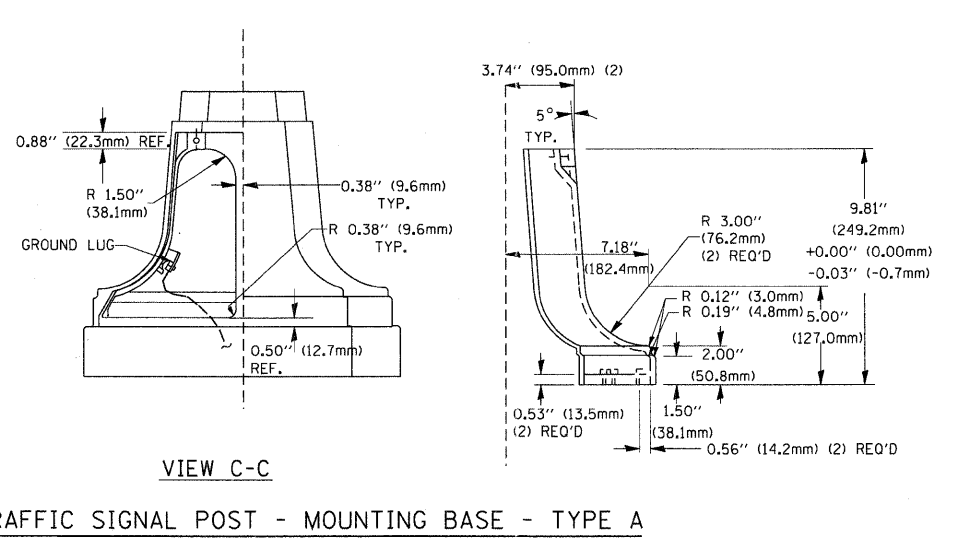
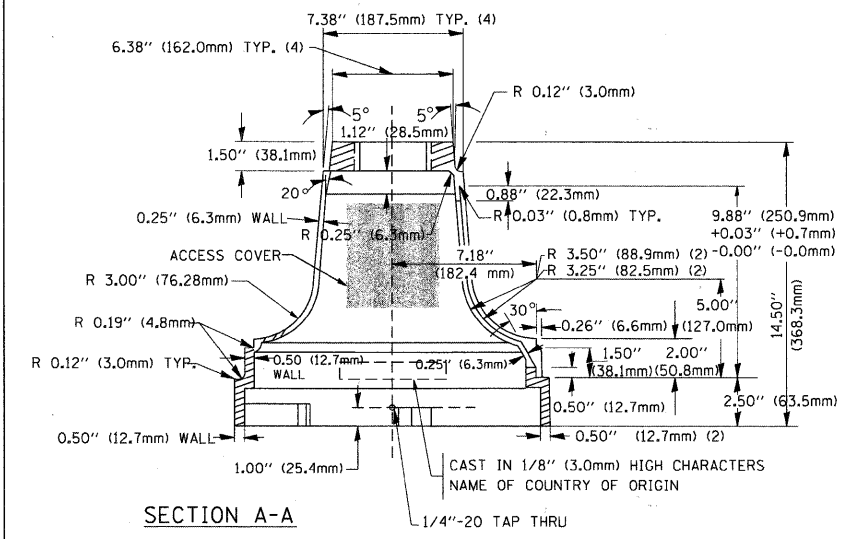
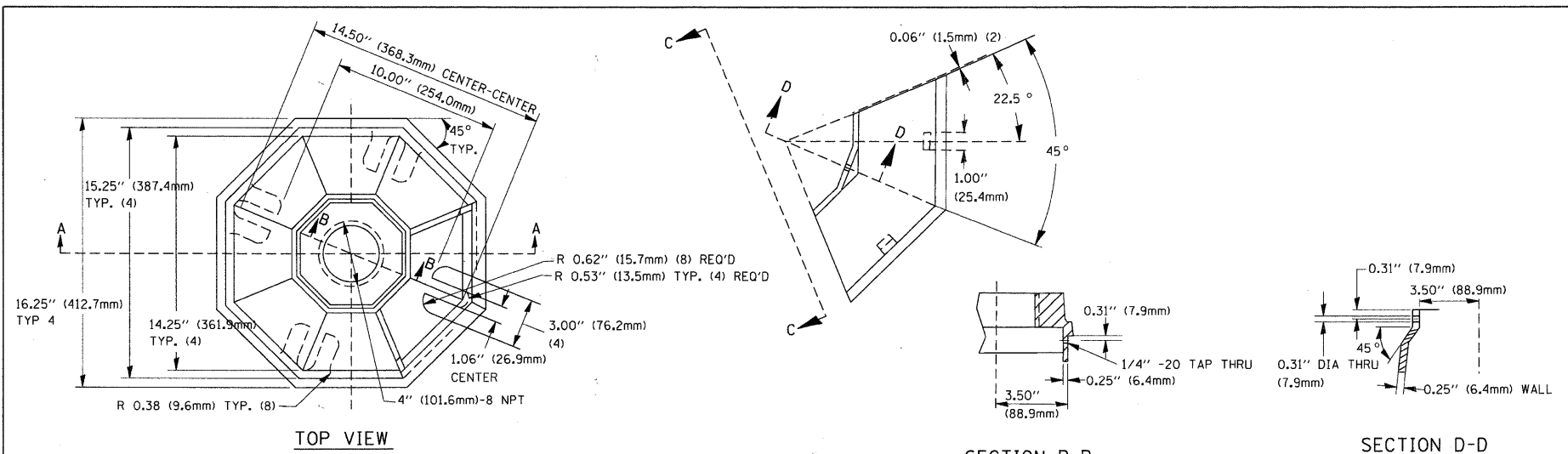
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WORK\PROJECT\BAUERDL\0106315\1005.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

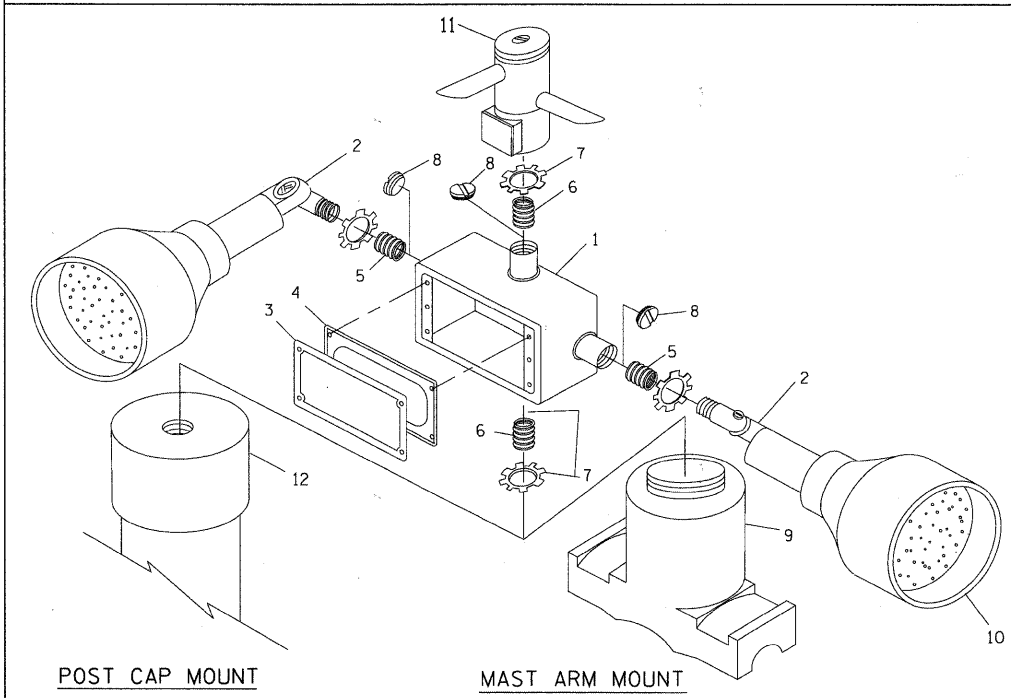
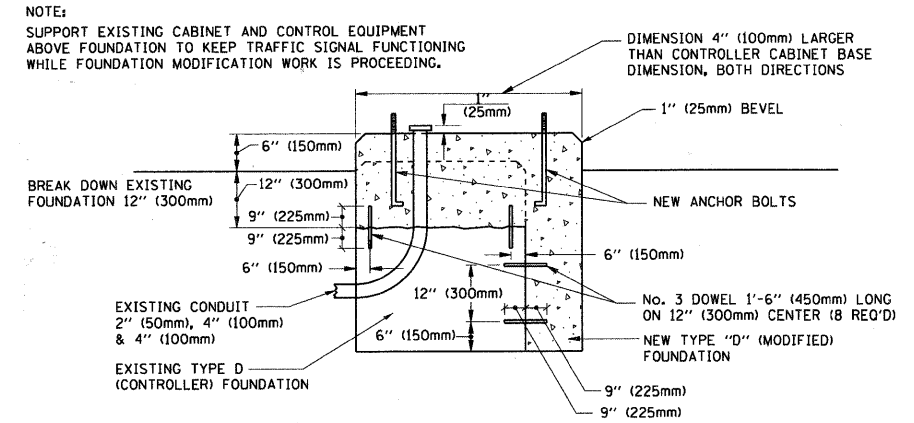
SCALE: NONE SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			86	72
TS-05		CONTRACT NO.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



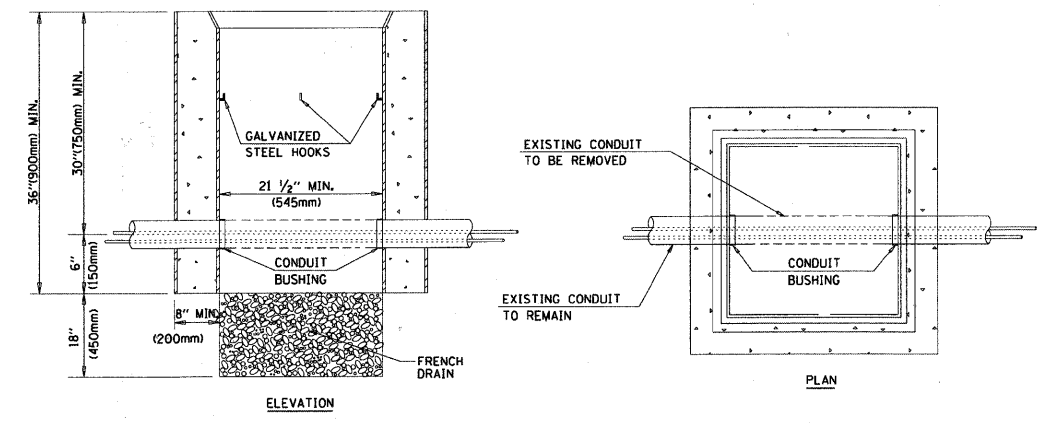
A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5\" (241mm)	19\" (483mm)	7\" (178mm) - 12\" (300mm)	53 lbs (24kg)
VARIABLES	10.75\" (273mm)	21.5\" (546mm)	7\" (178mm) - 12\" (300mm)	68 lbs (31 kg)
VARIABLES	13.0\" (330mm)	26\" (660mm)	7\" (178mm) - 12\" (300mm)	81 lbs (37 kg)
VARIABLES	18.5\" (470mm)	37\" (940mm)	7\" (178mm) - 12\" (300mm)	126 lbs (57 kg)

- NOTES:**
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
  - THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
  - THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



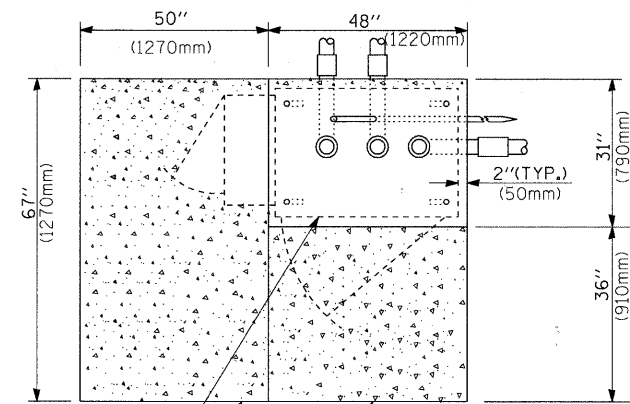
ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU. IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4\" (19 mm) CLOSE NIPPLE
7	3/4\" (19 mm) LOCKNUT
8	3/4\" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR 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-O-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 3/4\" (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.

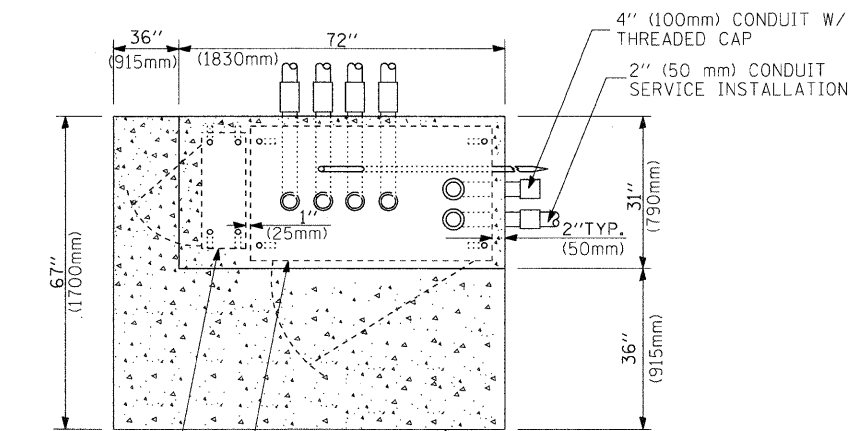


- NOTES:**
- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
  - REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

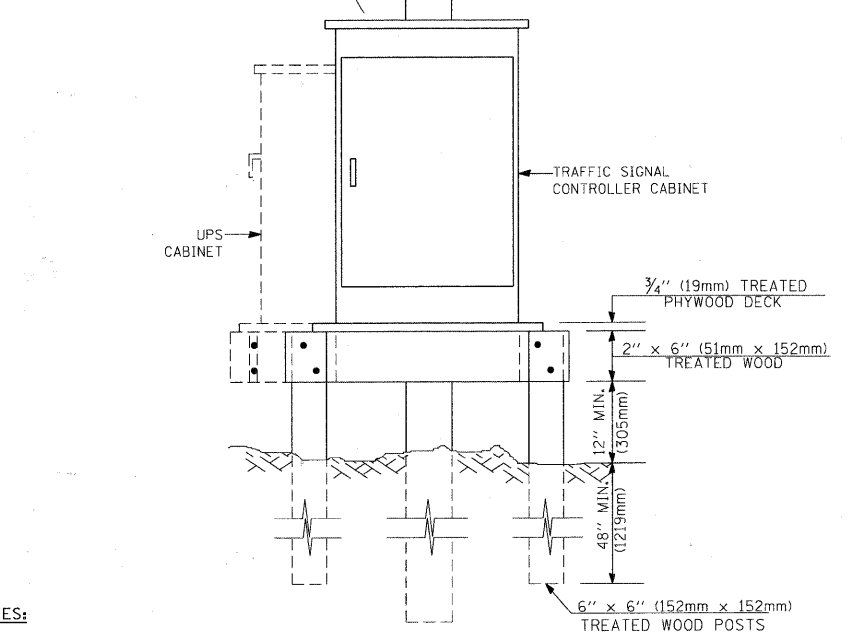
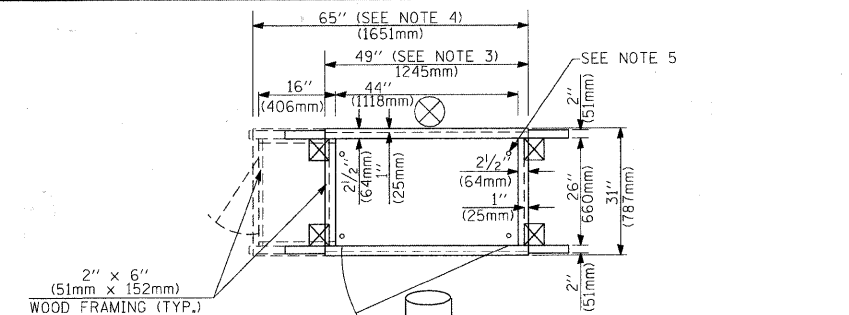




CONTROLLER CABINET BASE  
EXISTING APRON  
PROPOSED APRON  
**TOP VIEW**



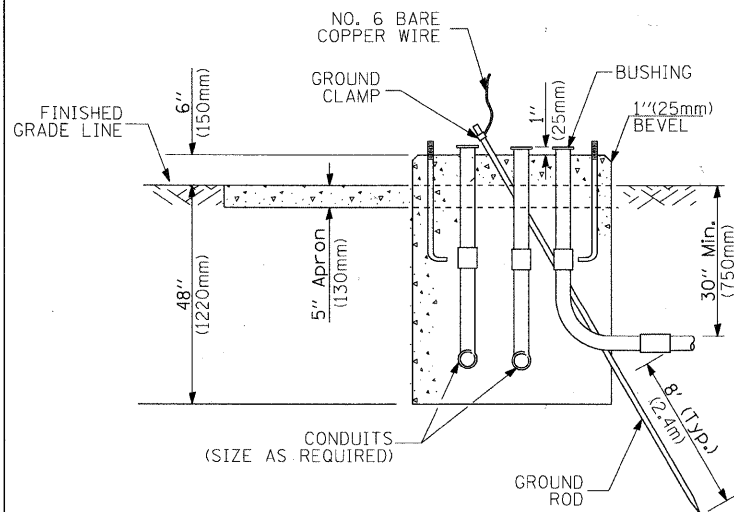
UPS CABINET BASE  
CONTROLLER CABINET BASE  
APRON  
**TOP VIEW**



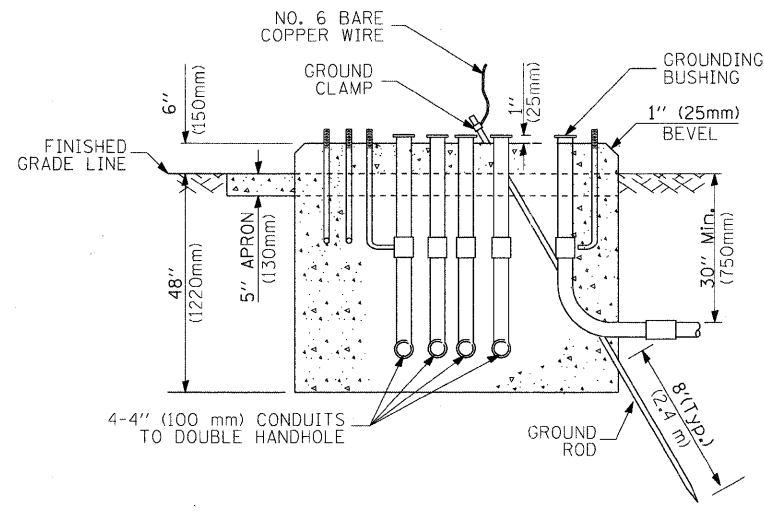
**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL-SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**



**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TYPE C  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

**DEPTH OF FOUNDATION**

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**

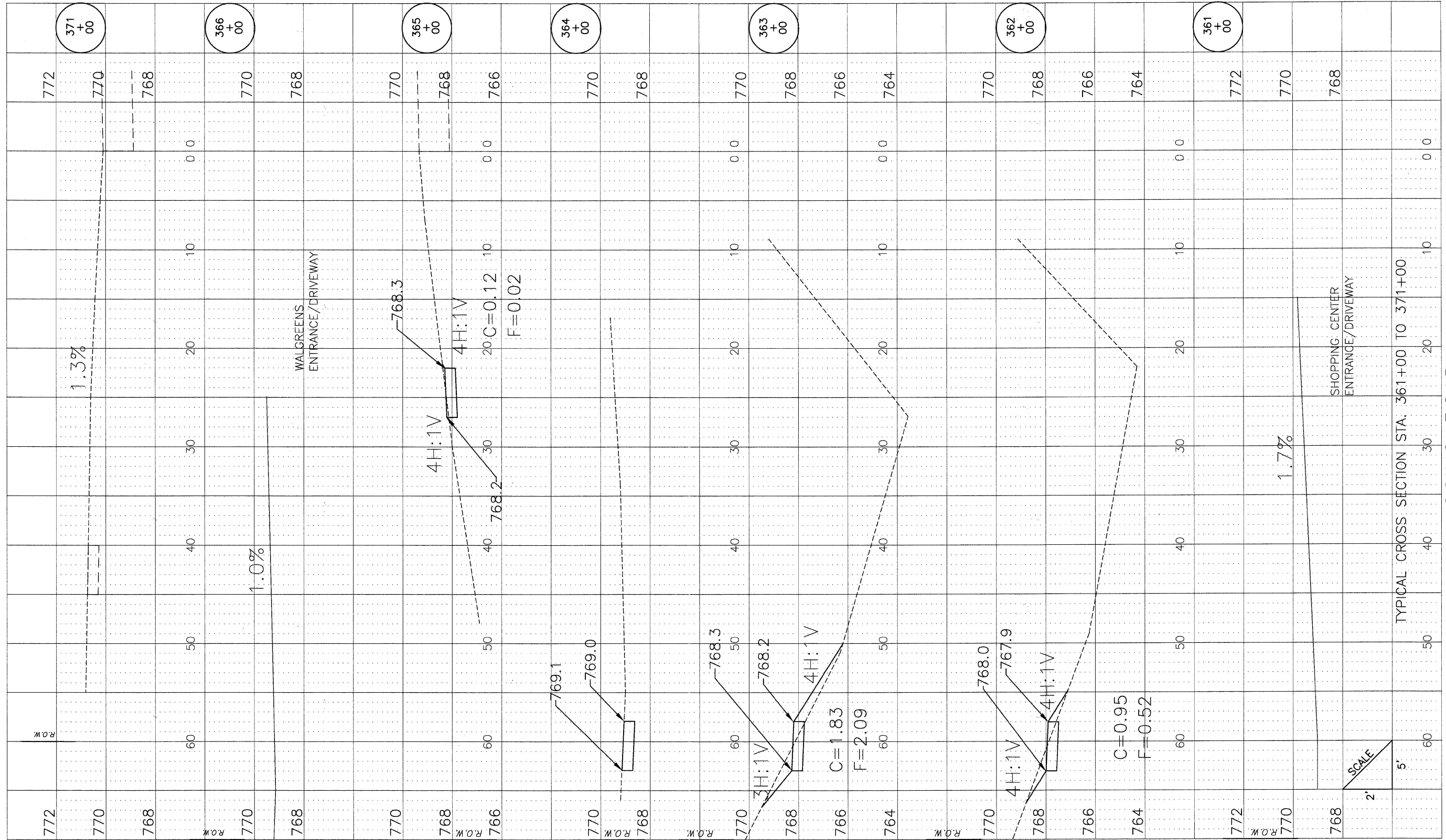
# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM		S	S	CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM		I	IP	STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM	R			ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM	RL			STEEL COMBINATION MAST ARM ASSEMBLY AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM	A			SIGNAL POST AND FOUNDATION TO BE REMOVED			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				<b>RAILROAD SYMBOLS</b>			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CONTROL CABINET			
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				RAILROAD CANTILEVER MAST ARM			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				FLASHING SIGNAL			
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE			
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSBUCK			
MICROWAVE VEHICLE SENSOR											
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											



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

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



DETAILS.DWG

DRAWN	---	REVISED	---
CHECKED	---	REVISED	---
DATE	---	REVISED	---



VILLAGE OF  
**HOFFMAN ESTATES**  
 1900 Hassell Road, Hoffman Estates, IL 60169  
 Phone Number: 847 252-5800

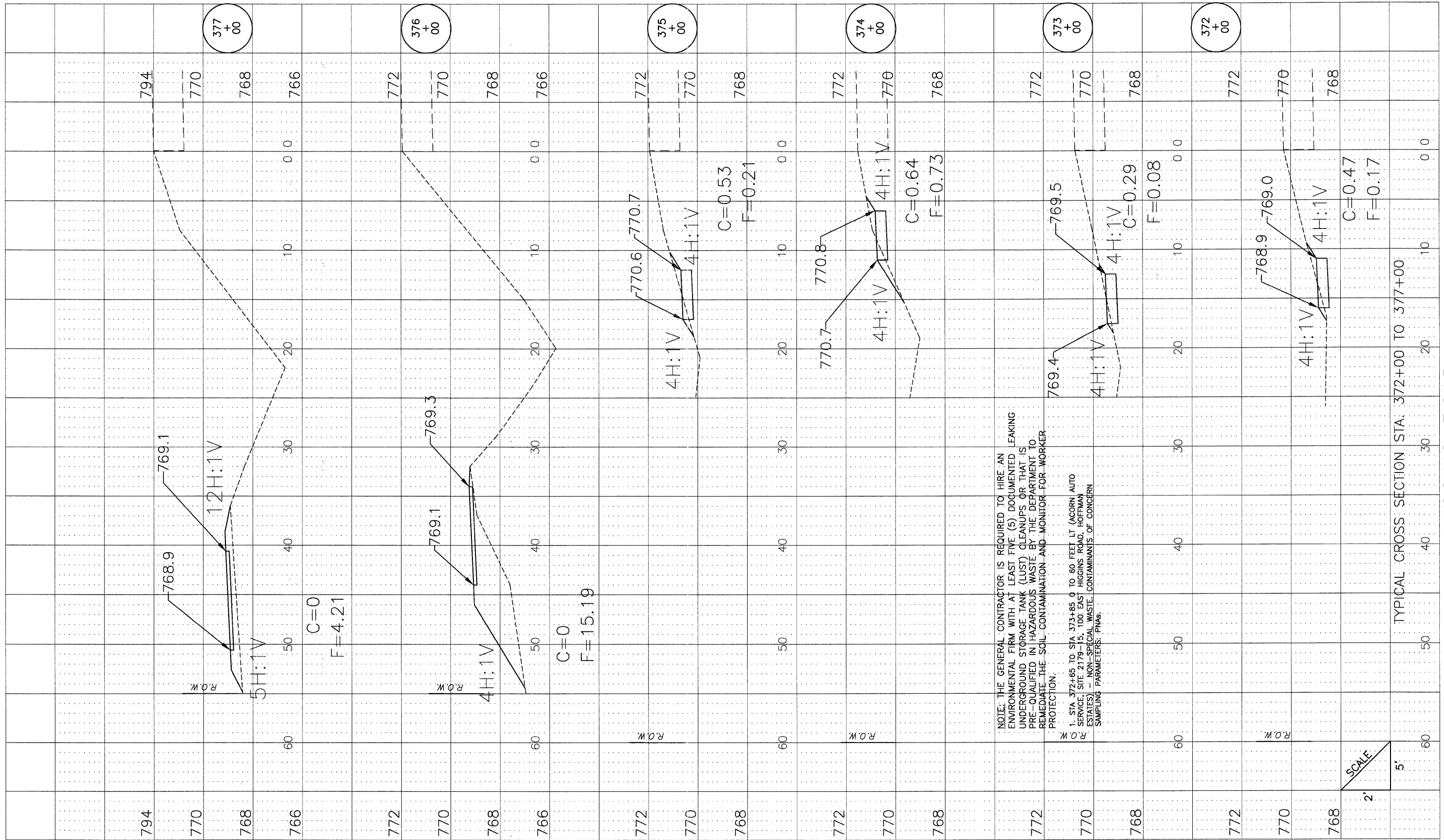
Higgins Road Bicycle and Pedestrian Project  
 Cross Sections

SCALE: H 1"=5', V 1"=2' SHEET NO. 1 OF 12 SHEETS STA. 361+00 TO STA. 371+00

RTE.	SECTION	COUNTY	SHEETS	NO.
341	08-00080-00-BT	Cook	86	76
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT GMM 9003(243)				

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

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



NOTE: THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED UNDERGROUND STORAGE TANK (UST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

1. STA. 372+85 TO STA. 373+85 0 TO 60 FEET LT (ACORN AUTO SERVICE, SITE: 2179-15, 100 EAST HIGGINS ROAD, HOFFMAN ESTATES) - NON-SPECIAL WASTE, CONTAMINANTS OF CONCERN SAMPLING PARAMETERS: PNAs.

SCALE  
2'  
5'

TYPICAL CROSS SECTION STA. 372+00 TO 377+00

HIGGINS ROAD

DETAILSH.DWG

DRAWN	---	REVISED	---
CHECKED	---	REVISED	---
DATE	---	REVISED	---



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

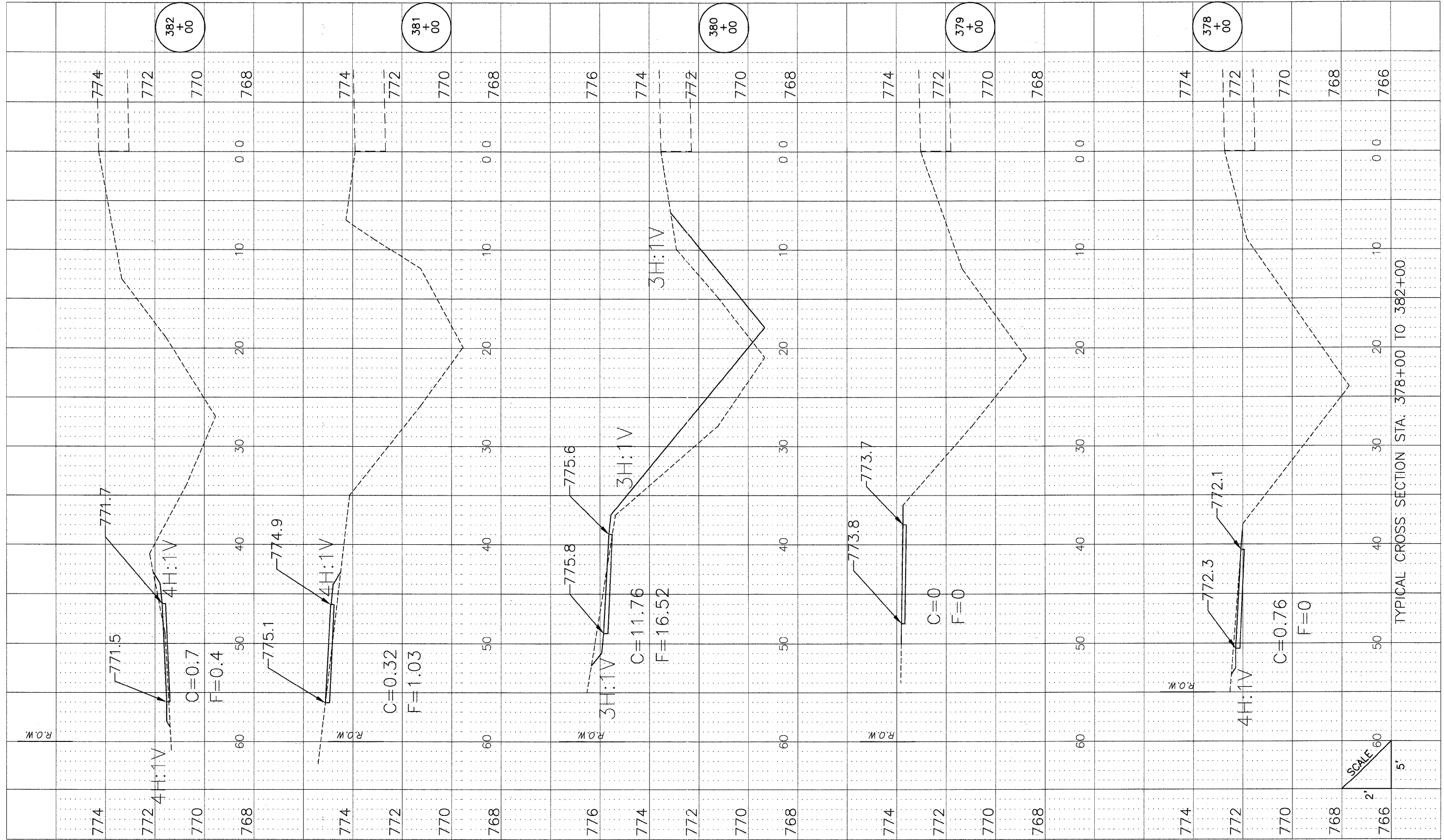
Higgins Road Bicycle and Pedestrian Project  
Cross Sections

SCALE: H 1"=5', V 1"=2' SHEET NO. 3 OF 12 SHEETS STA. 372+00 TO STA. 377+00

RTE.	SECTION	COUNTY	SHEETS	NO.
341	08-00080-00-BT	Cook	86	77
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT CMM 9003(243)				

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

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



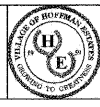
HIGGINS ROAD

TYPICAL CROSS SECTION STA. 378+00 TO 382+00

SCALE: 2' = 60' 5'

DETAILSH.DWG

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DATE	---	REVISED	---



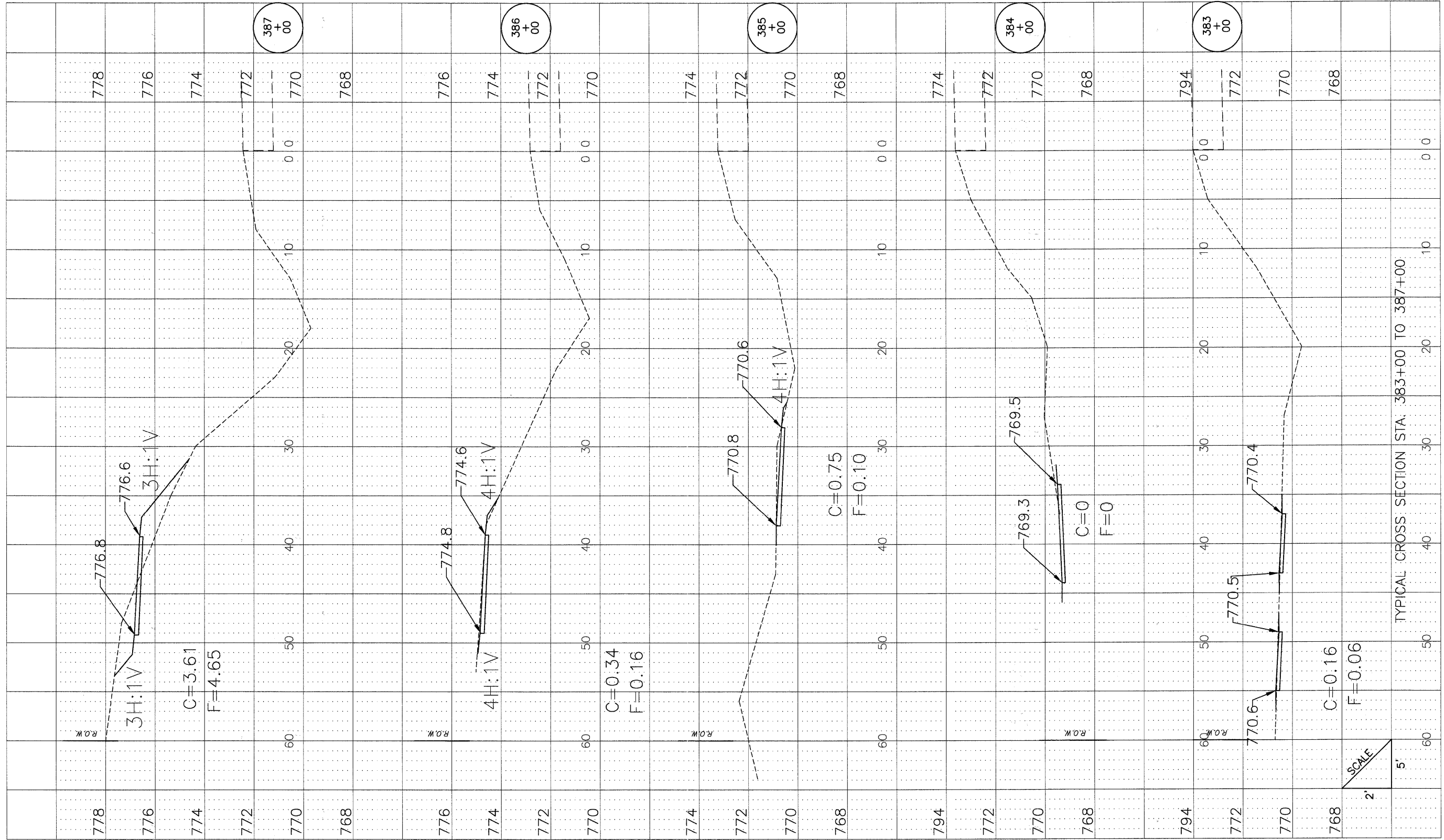
VILLAGE OF  
**HOFFMAN ESTATES**  
 1900 Hassell Road, Hoffman Estates, IL 60169  
 Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
 Cross Sections  
 SCALE: H 1"=5', V 1"=2' SHEET NO. 4 OF 12 SHEETS STA. 378+00 TO STA. 382+00

RTE.	SECTION	COUNTY	SHEETS	NO.
341	08-00080-00-BT	Cook	86	78
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT CMM 9003(243)				

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

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



HIGGINS ROAD

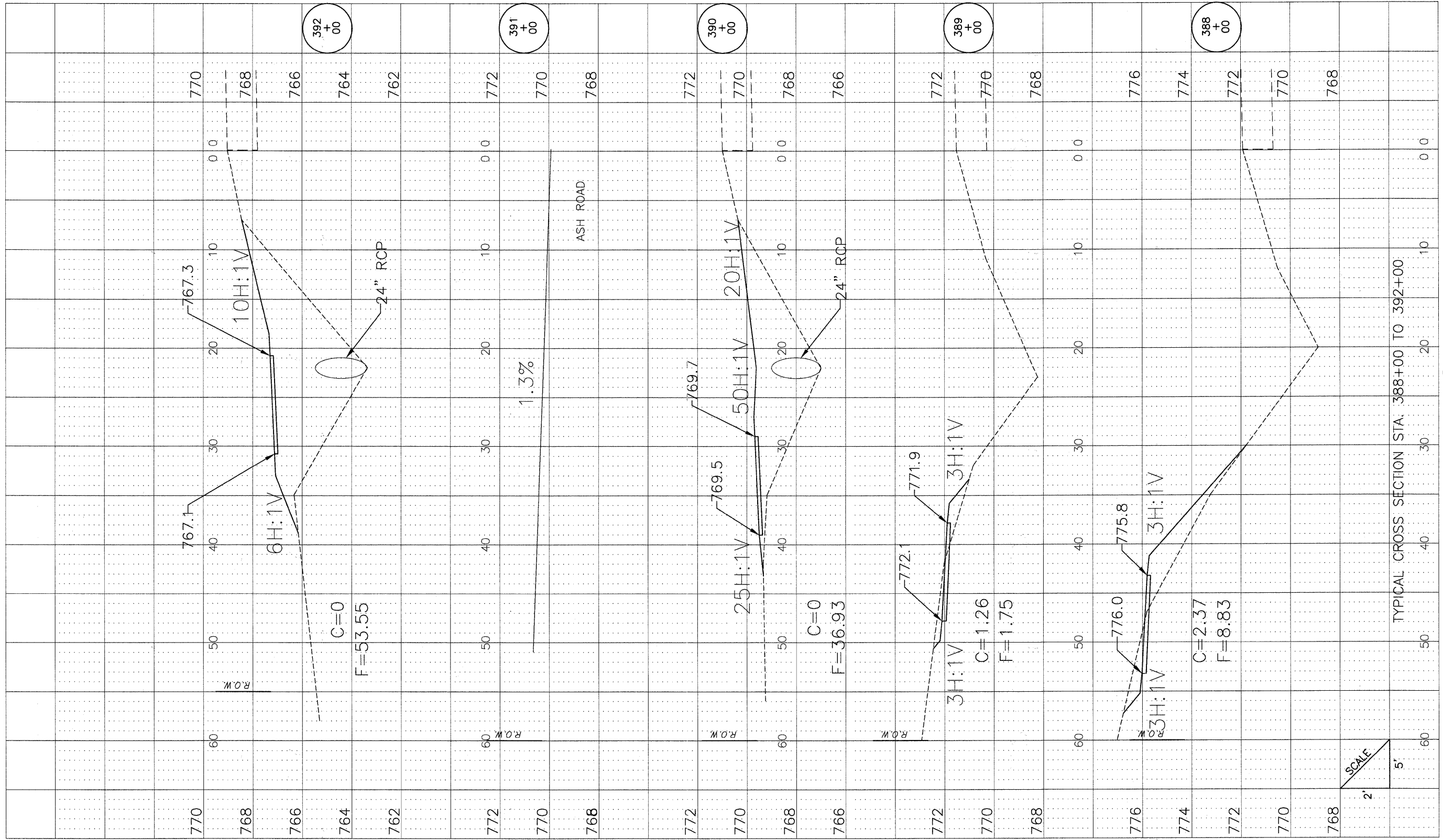
TYPICAL CROSS SECTION STA. 383+00 TO 387+00

SCALE  
2'  
5'

DETAILS.DWG	DRAWN	REVISD		VILLAGE OF HOFFMAN ESTATES 1900 Hossell Road, Hoffman Estates, IL 60169 Phone Number: 847 252-5800	Higgins Road Bicycle and Pedestrian Project Cross Sections		RTE.	SECTION	COUNTY	SHEETS	NO.
	CHECKED	REVISD		SCALE: H 1":5', V 1":2'   SHEET NO. 5 OF 12 SHEETS   STA. 383+00 TO STA. 387+00	341	08-00080-00-BT	Cook	86	79		
	DATE	REVISD		ILLINOIS FED. AID PROJECT CMM 9003(243)	CONTRACT NO. 63233						

FINAL SURVEY NO.	SURVEY BOOK NO.	DATE

ORIGINAL SURVEY NO.	SURVEY BOOK NO.	DATE



DETAILSH.DWG

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CHECKED	---	REVISED	---
DATE	---	REVISED	---



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Cross Sections

SCALE: H 1"=5', V 1"=2' SHEET NO. 6 OF 12 SHEETS STA. 388+00 TO STA. 392+00

RTE.	SECTION	COUNTY	SHEETS	NO.
341	08-00080-00-BT	Cook	86	80
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT CMM 9003(243)				

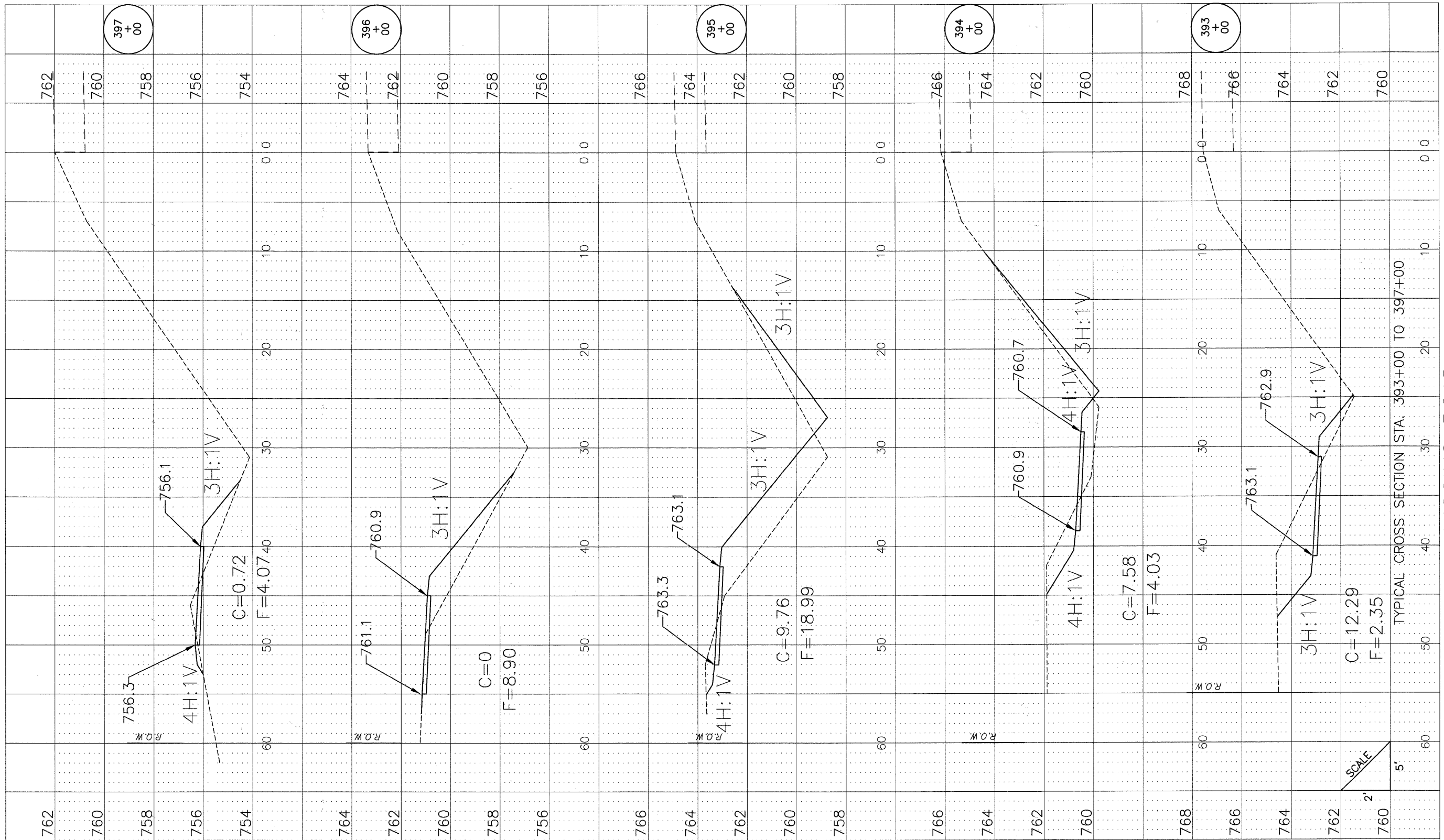
SCALE  
2'  
5'

TYPICAL CROSS SECTION STA. 388+00 TO 392+00

HIGGINS ROAD

FINAL SURVEY NOTE BOOK NO.	SURVEYED BY	DATE

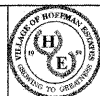
ORIGINAL SURVEY NOTE BOOK NO.	SURVEYED BY	DATE



HIGGINS ROAD

DETAILSH.DWG

DRAWN	REVISD
CHECKED	REVISD
DATE	REVISD



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Cross Sections

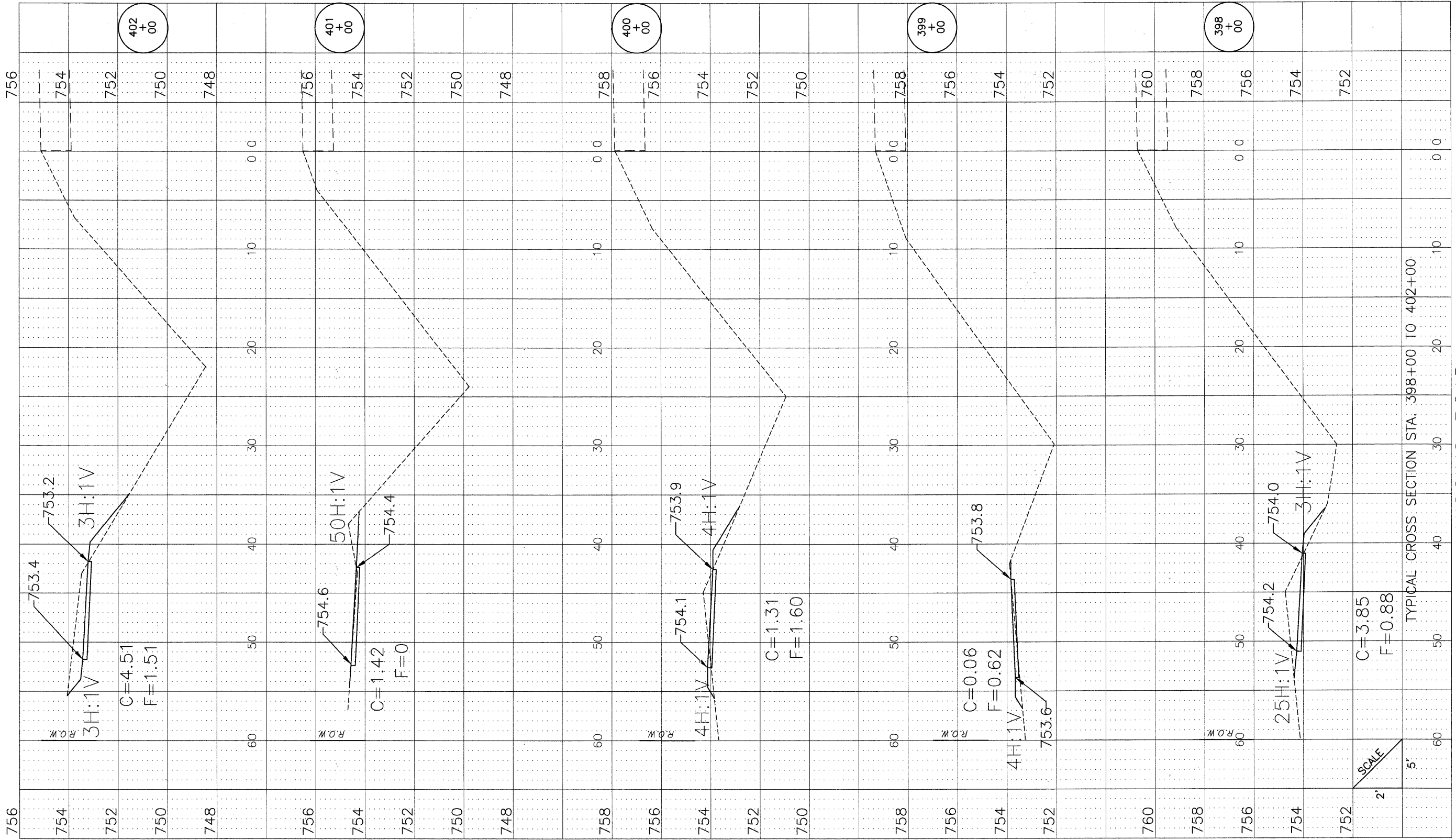
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ROUTE	SECTION	COUNTY	SHEETS	NO.
341	08-00080-00-BT	Cook	86	81
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT CMM 9003(243)				



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

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



HIGGINS ROAD

DETAILSH.DWG

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CHECKED	-	REVISED	-
DATE	-	REVISED	-



VILLAGE OF  
**HOFFMAN ESTATES**  
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Higgins Road Bicycle and Pedestrian Project  
 Cross Sections

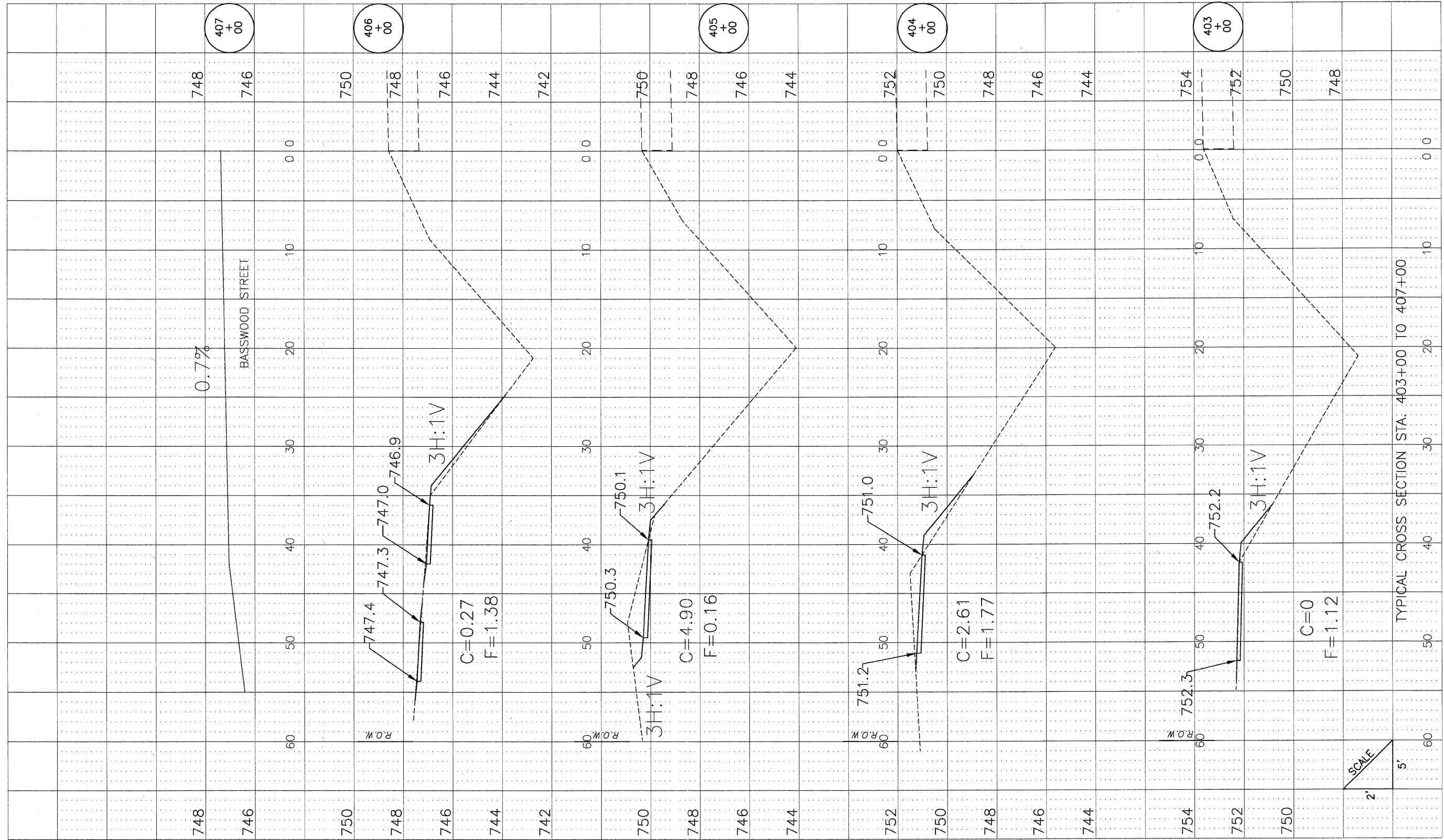
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RTE.	SECTION	COUNTY	SHEETS	NO.
341	08-00080-00-BT	Cook	86	82
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT CMM 9003(243)				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS CHECKED		

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



HIGGINS ROAD

DETAILSH.DWG

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CHECKED	-	REVISED	-
DATE	-	REVISED	-



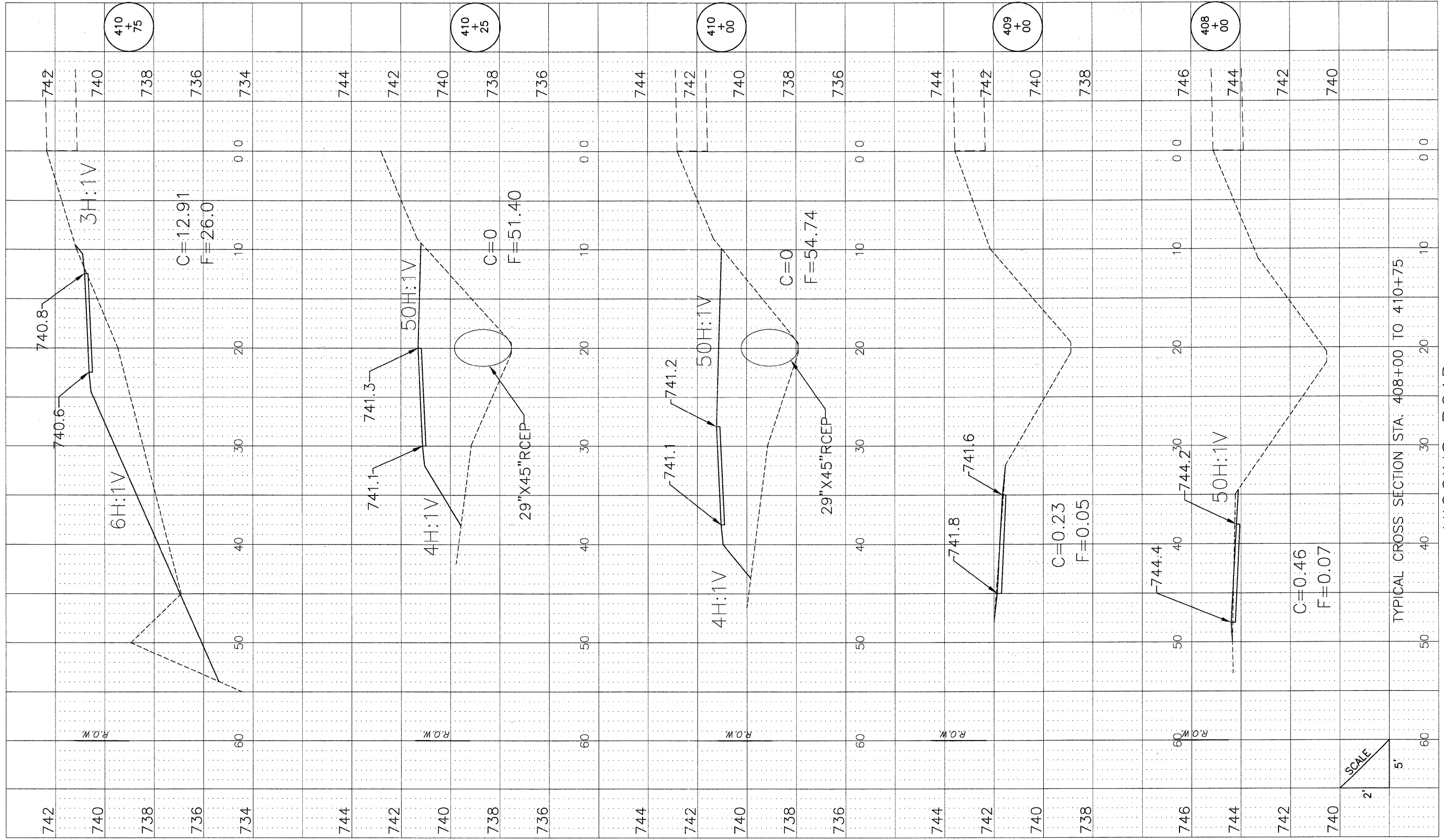
VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Cross Sections  
SCALE: H 1"=5'; V 1"=2' SHEET NO. 9 OF 12 SHEETS STA. 403+00 TO STA. 407+00

RTE.	SECTION	COUNTY	SHEETS	NO.
341	08-00080-00-BT	Cook	86	83
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT CMM 9003(243)				

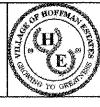
FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	DATE	
AREAS CHECKED		

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



DETAILS.DWG

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DATE	---	REVISED	---



VILLAGE OF  
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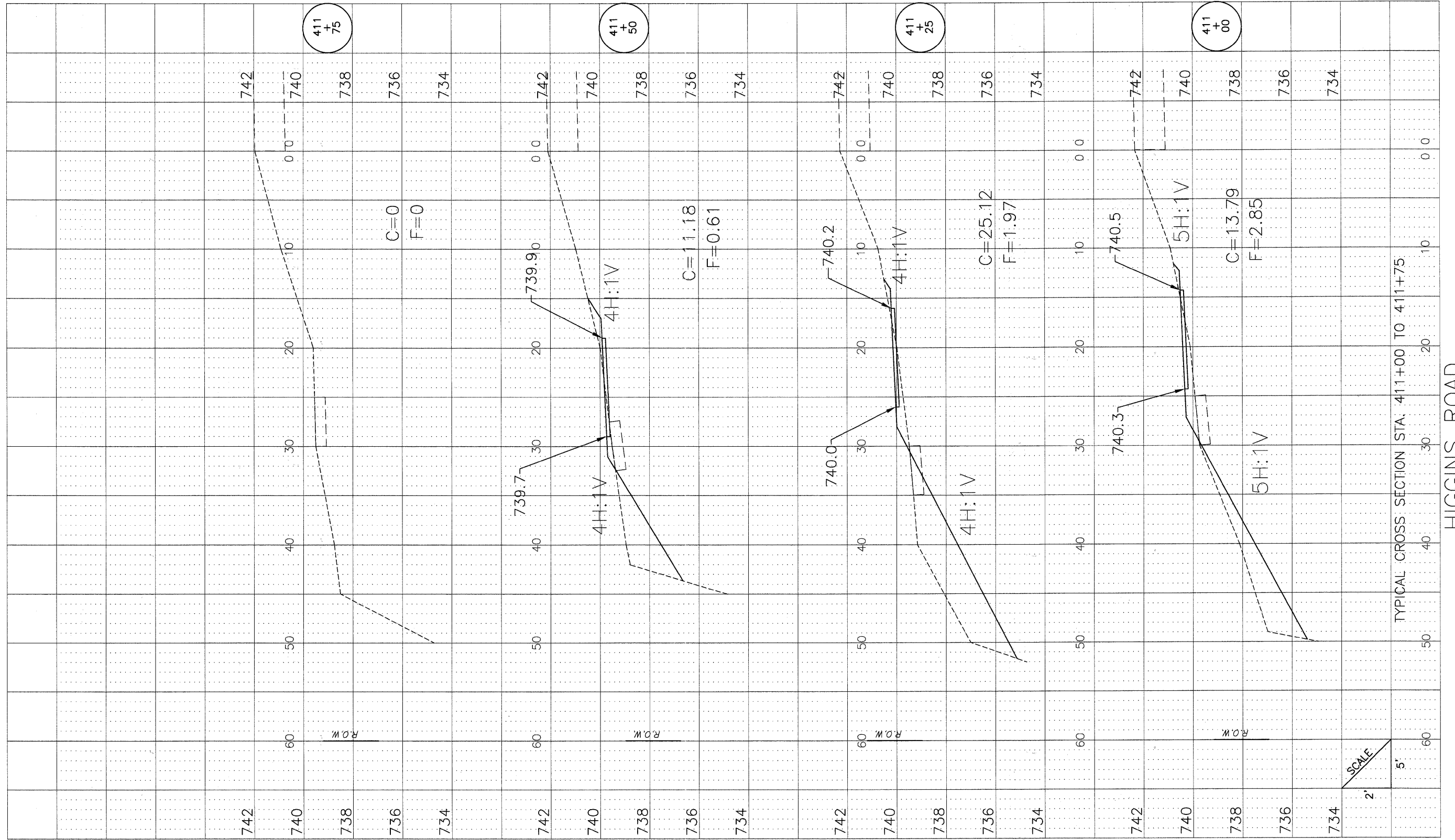
Higgins Road Bicycle and Pedestrian Project  
 Cross Sections

SCALE: H 1"=5'; V 1"=2' SHEET NO. 10 OF 12 SHEETS STA. 408+00 TO STA. 410+75

RT.	SECTION	COUNTY	SHEETS	NO.
341	08-00080-00-BT	Cook	86	84
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT CMM 9003(243)				

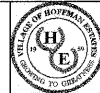
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		

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



HIGGINS ROAD

TYPICAL CROSS SECTION STA. 411+00 TO 411+75



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Cross Sections  
SCALE: H 1"=5', V 1"=2' SHEET NO. 11 OF 12 SHEETS STA. 411+00 TO STA. 411+75

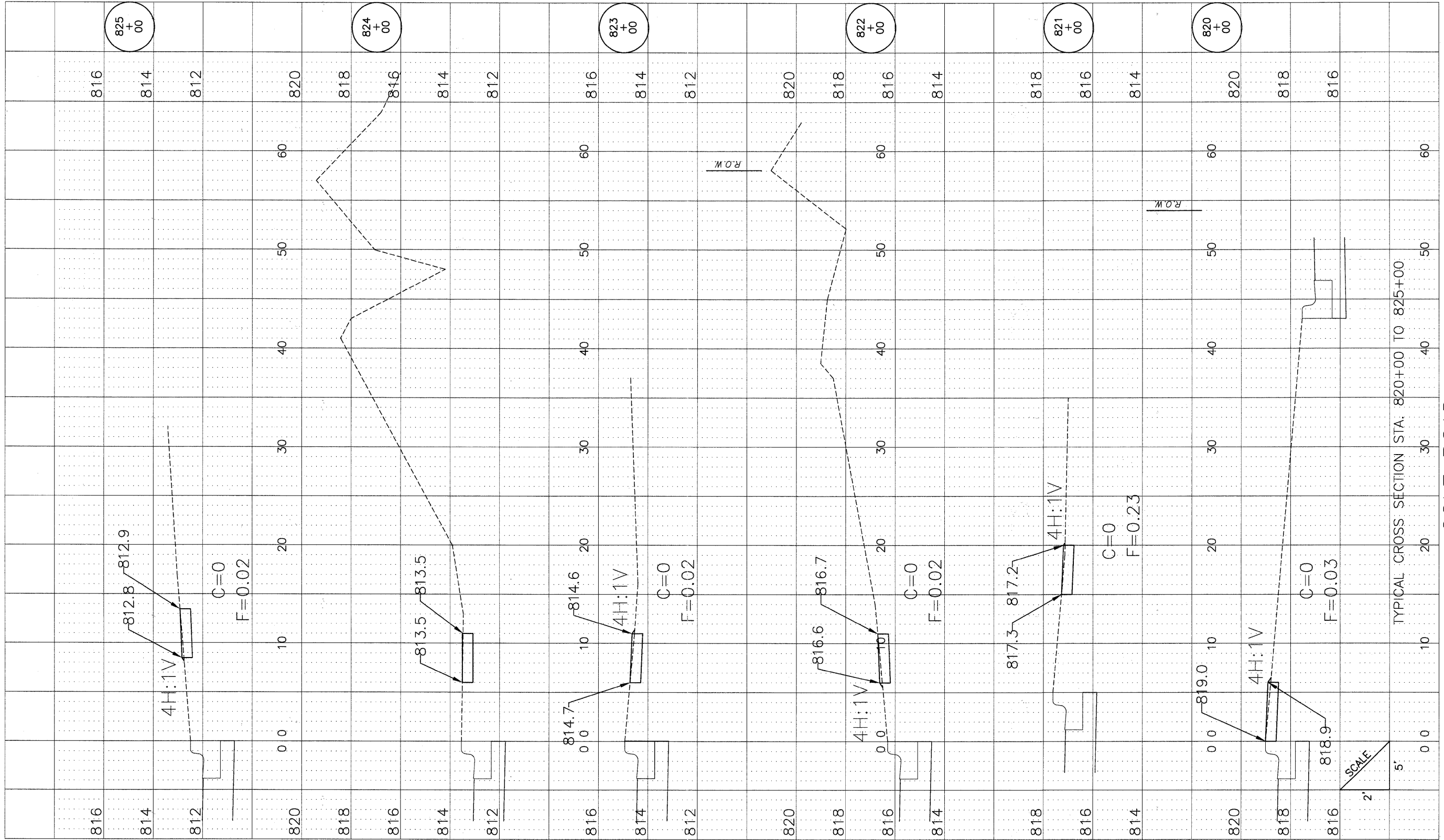
RT.	SECTION	COUNTY	SHEETS	NO.
341	08-00080-00-BT	Cook	86	85
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT CMM 9003(243)				

DETAILSH.DWG

DRAWN	---	REVISED	---
CHECKED	---	REVISED	---
DATE	---	REVISED	---

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

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



GOLF ROAD

DETAILSH.DWG

DRAWN	--	REVISED	--
CHECKED	--	REVISED	--
DATE	--	REVISED	--



VILLAGE OF  
HOFFMAN ESTATES  
1900 Hassell Road, Hoffman Estates, IL 60169  
Phone Number: 847 252-5800

Higgins Road Bicycle and Pedestrian Project  
Cross Sections

SCALE: H 1"=5', V 1"=2' SHEET NO. 12 OF 12 SHEETS STA. 820+00 TO STA. 825+00

RTE.	SECTION	COUNTY	SHEETS	NO.
341	08-00080-00-BT	Cook	86	86
CONTRACT NO. 63233				
ILLINOIS FED. AID PROJECT CMM 9003(243)				