

STRAND ASSOCIATES, INC. PROJECT MANAGER: TONY STANDISH (815) 744-4200

ASSOCIATE FIELD ENGINEER: KEVIN STALLWORTH (847) 705-4169

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 63217		

C-91-446-06

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

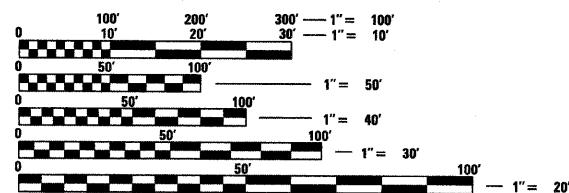
DUNDEE ROAD (IL-68) TO GLENDALE STREET  
OVER BUFFALO CREEK  
SECTION: 06-00069-00-BR  
PROJECT: ARA-00D1(691)  
VILLAGE OF WHEELING  
COOK COUNTY  
JOB NO.: C-91-446-06

INDEX OF SHEETS:

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- 19-21 IDOT DISTRICT ONE STANDARDS
- 22-26 CROSS SECTIONS

LIST OF IDOT HIGHWAY STANDARDS:

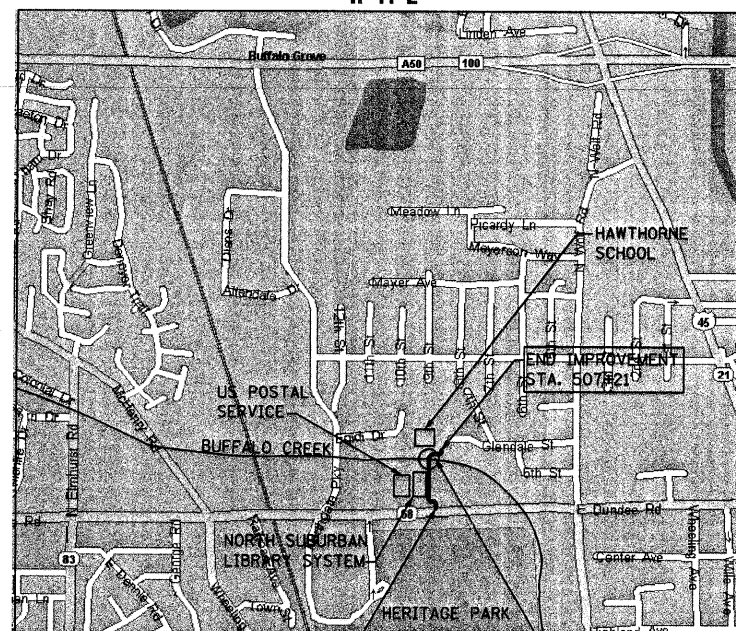
- 000001-05 ABBREVIATIONS, SYMBOLS AND PATTERNS
- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 701101-02 OFF-RD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNT DETAILS
- 720006-02 SIGN PANEL ERECT DETAILS
- 805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS
- 878001-07 CONCRETE FOUNDATION 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

TRAFFIC DATA:  
FUNCTIONAL CLASS: SHARED USE PATH  
DESIGN SPEED: 20 M.P.H.  
ADT: 60



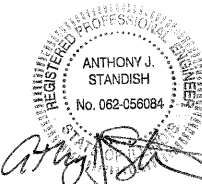
BEGIN IMPROVEMENT STA. 500+00

PROPOSED PEDESTRIAN BRIDGE STA. 504+63, LENGTH OF STRUCTURE 50', S.N. 016-7000

LOCATION MAP

NET PROJECT LENGTH: 721 FEET (0.137 MI)  
GROSS PROJECT LENGTH: 721 FEET (0.137 MI)

STRAND ASSOCIATES, INC.  
ANTHONY J. STANDISH, P.E. S.E.  
THIS STAMP APPLIES TO DRAWINGS:



DATE: 5-26-2009 EXP: 11/2009



LOCATION OF SECTION INDICATED THIS: -

STRAND ASSOCIATES, INC. ENGINEERS  
1170 SOUTH HOBOLT ROAD  
JOLIET, ILLINOIS 60431  
815 744-4200

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED: Timothy W. Merrick  
VILLAGE OF WHEELING - VILLAGE ENGINEER

PASSED: MAY 29, 2009  
C. H. Hest  
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: MAY 29, 2009  
Dennis M. O'Keefe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

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**GENERAL NOTES**

1. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE TAKEN TO MEAN THE LATEST EDITION OF NES, IES, & IDOT STANDARDS.
2. WHERE SECTION OR SUB-SECTIONS MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY CONTRACTOR OPERATIONS.
3. THE LOCATION AND ELEVATION OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR UTILITIES TO PREVENT DAMAGE.
4. 48 HOURS PRIOR TO THE START OF ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR FOR FIELD LOCATIONS OF BURIED UTILITIES.
5. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO THAT THE EXISTING PATH AND STRUCTURE WILL REMAIN ACCESSIBLE DURING CONSTRUCTION OF THE NEW PATH AND STRUCTURE. EXISTING STRUCTURE AND PATH SHALL REMAIN IN PLACE UNTIL NEW STRUCTURE AND PATH ARE OPENED. WHEN IT IS NECESSARY TO CLOSE THE EXISTING PATH TO FINALIZE CONSTRUCTION THE CONTRACTOR SHALL COORDINATE WITH THE NORTH SUBURBAN LIBRARY SYSTEMS, CONSOLIDATED SCHOOL DISTRICT #21 AND THE VILLAGE OF WHEELING. NO CLOSURE SHALL NOT BE GREATER THAN ONE WORKING DAY.
6. ALL EXCESS MATERIAL AND ANY OTHER DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN OFF-SITE DISPOSAL AREA.
7. THE CONTRACTOR SHALL PROTECT ALL EXISTING TREES, SHRUBS, FENCES, DRAIN LINES, POWER LINES AND OTHER PUBLIC/PRIVATE PROPERTY. ANY ITEM THAT IS DAMAGED SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE CONTRACT.
8. THE CONTRACTOR SHALL KEEP EXISTING ADJACENT ROADWAYS, PARKING LOTS AND SIDEWALKS CLEAN OF DIRT, MUD AND OTHER DEBRIS AND WHEN NECESSARY, CLEAN SAID PAVEMENTS ON A DAILY BASIS OR WHEN DIRECTED BY THE ENGINEER.
9. PRIOR TO APPLYING THE BITUMINOUS PRIME COAT, THE BASE SURFACE SHALL BE CLEANED OF ALL LOOSE LEAVES, DUST, DIRT WEEDS AND OTHER FOREIGN MATERIALS. COST TO BE CONSIDERED INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50
10. ANY REFERENCE TO STAGE I SHALL BE TAKEN TO MEAN ALL WORK PRIOR TO EXISTING STRUCTURE REMOVAL. ANY REFERENCE TO STAGE II SHALL BE TAKEN TO MEAN ALL WORK AFTER EXISTING STRUCTURE REMOVAL.
11. FOR DESIGN AND QUANTITY ESTIMATION PURPOSES, THESE PLANS HAVE BEEN DEVELOPED USING 112.0 POUNDS PER SQUARE YARD PER INCH THICKNESS OF HOT-MIX ASPHALT SURFACE PAVEMENTS, 90 LB/ACRE FOR FERTILIZERS.
12. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. DEBRIS AND ANY SURPLUS MATERIALS SHALL BE REMOVED AND RESTORATION SHALL PROCEED AS THE WORK PROCEEDS. IF THE OWNER OR THE ENGINEER SO DIRECTS THE CONTRACTOR SHALL STOP ALL OTHER WORK AND CONCENTRATE ON CLEAN-UP AND RESTORATION. DEBRIS AND SURPLUS MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF-SITE.
13. THE CONTRACTOR SHALL CONFINE OPERATIONS WITHIN CONSTRUCTION LIMITS AS SHOWN ON PLANS. ANY DAMAGE OUTSIDE OF SAID CONSTRUCTION LIMITS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
14. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
15. THE CONTRACTOR SHALL NOTIFY THE VILLAGE ENGINEER AT LEAST 72 HOURS IN ADVANCE OF BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE VILLAGE OF WHEELING, CONSOLIDATED SCHOOL DISTRICT #21, AND THE NORTH SUBURBAN LIBRARY SYSTEMS. THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE RIGHT-OF-WAY OF ANY PROPERTY SHALL REQUIRE APPROVAL OF THE ENGINEER.
16. EARTHWORK QUANTITIES HAVE BEEN ESTIMATED USING THE NEAREST TIE-IN POINTS OF PROPOSED WORK TO EXISTING GROUND. QUANTITIES FOR EACH STAGE WILL BE DETERMINED AT THE TIME OF CONSTRUCTION BY THE ENGINEER.
17. ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES AND PIPES ENCOUNTERED ARE TO BE INCLUDED IN THE UNIT PRICE BID FOR EARTH EXCAVATION EXCEPT AS NOTED ON THE PLANS.
18. POROUS GRANULAR EMBANKMENT, SUBGRADE (PGE) HAS BEEN PROVIDED FOR SOILS THAT TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR THE REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.
19. ALONG THE NORTH SIDE OF BUFFALO CREEK, THE CONTRACTOR WILL BE ABLE TO ACCESS THE CONSTRUCTION SITE FROM GLENDALE ROAD AND THROUGH THE PARKING LOT OF HAWTHORNE SCHOOL. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO STAY WITHIN THE EXISTING EASEMENTS WHEN ACCESSING THE SITE. AS MUCH AS PRACTICAL ANY EQUIPMENT OR MATERIALS SHALL BE STORED WITHIN THE TURF AREA. CONSTRUCTION TRAFFIC SHALL NOT BE ACTIVE BETWEEN 8AM AND 10AM OR 2PM AND 4PM NOR IMPEDE PUBLIC ACCESS TO THE HAWTHORNE SCHOOL.
20. ACCESS TO THE SOUTH SIDE OF THE PROJECT SITE IS PROVIDED BY A TEMPORARY ENTRANCE FROM DUNDEE ROAD. NO HEAVY CONSTRUCTION EQUIPMENT SHALL BE PERMITTED ON THE NORTH SUBURBAN LIBRARY SYSTEM'S DRIVEWAY OR PARKING LOT.

NOTE: BOXED NOTES ARE INCIDENTAL ITEMS.

FILE NAME = SA\JUL\65200 - 659\PROJECTS\004\Micros\Sheets\JUL65200.dwg



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PLOT DATE = 5/22/2009	CHECKED - JAR	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	2
CONTRACT NO. 63217				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

SUMMARY OF QUANTITIES

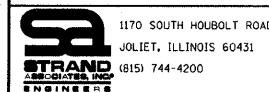
CODE NO.	SP	ITEM	UNIT	QUANTITY
20100110		TREE REMOVAL (6-15 UNIT DIAMETER)	UNIT DIA.	32
20100210		TREE REMOVAL (OVER 15 UNIT DIAMETER)	UNIT DIA.	216
20101700		SUPPLEMENTAL WATERING	UNIT	5
20200100		EARTH EXCAVATION	CU YD	355
20201200		REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	CU YD	50
20400800		FURNISHED EXCAVATION	CU YD	100
20700400	*	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	43
20700420	*	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	50
21101505		TOPSOIL EXCAVATION AND PLACEMENT	CU YD	170
25000110	X	SEEDING CLASS 1A	ACRE	0.25
25000400	X	NITROGEN FERTILIZER NUTRIENT	POUND	30
25000500	X	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	30
25000600	X	POTASSIUM FERTILIZER NUTRIENT	POUND	30
25100115	X	MULCH METHOD 2	ACRE	0.25
25100630	X	EROSION CONTROL BLANKET	SQ YD	208
25200100	X	SODDING	SQ YD	1100
28000400		PERIMETER EROSION BARRIER	FT	1530
28100107		STONE RIPRAP, CLASS A4	SQ YD	283
28200200		FILTER FABRIC	SQ YD	283
35101800		AGGREGATE BASE COURSE, TYPE B, 6"	SQ YD	746
40201000		AGGREGATE FOR TEMPORARY ACCESS	TON	30
40600100		BITUMINOUS MATERIALS (PRIME COAT)	GALLON	373
40603310		HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50	TON	84
42400200		PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	100
44000600		SIDEWALK REMOVAL	SQ FT	460
50100100		REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100		STRUCTURE EXCAVATION	CU YD	92
50300225		CONCRETE STRUCTURES	CU YD	26
50800205		REINFORCEMENT BARS, EPOXY COATED	POUND	1600
59100100	*	GEOCOMPOSITE WALL DRAIN	SQ YD	22
60109580		PIPE UNDERDRAINS FOR STRUCTURES 4"	FT	117
67100100		MOBILIZATION	L SUM	1
70102640		TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1

- \* INDICATES SPECIAL PROVISION
- X INDICATES SPECIALITY ITEM

SUMMARY OF QUANTITIES

CODE NO.	SP	ITEM	UNIT	QUANTITY
72000100		SIGN PANEL - TYPE 1	SQ FT	22
72900100		METAL POST, TYPE A	FT	108
78001180	X	PAINT PAVEMENT MARKING - LINE 24"	FOOT	10
80400100	* X	ELECTRIC SERVICE INSTALLATION	EACH	1
80400200	* X	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81000600	X	CONDUIT IN TRENCH, 2" DIA, GALVANIZED STEEL	FOOT	16
81603050	* X	UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	324
81900200	* X	TRENCH AND BACKFILL FOR ELECTRIC WORK	FOOT	285
83600200	* X	LIGHT POLE FOUNDATION, 24" DIA.	FT	20
K0038000	* X	PERENNIAL PLANTS, WETLAND EMERGENT TYPE	UNIT	5
K1005421	* X	SEEDING (SPECIAL)	ACRE	0.25
X0322508	*	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	669
X0350805	*	FOLD DOWN BOLLARDS	EACH	2
XX005912	*	INSTALLATION OF TRASH RECEPTACLES	EACH	2
XX006345	*	TURBIDITY BARRIER	FOOT	235
XX006937	* X	GROUND ROD, 5/8" DIA. X 10 FT	EACH	3
Z0013798	*	CONSTRUCTION LAYOUT	L SUM	1
XX008109	* X	ELECTRIC SERVICE BOX	EACH	1
XX008110	* X	INSTALL EXISTING LIGHT POLE WITH LUMINAIRE	EACH	2
XX008093	* X	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO.6, 1/C NO.8	FOOT	70

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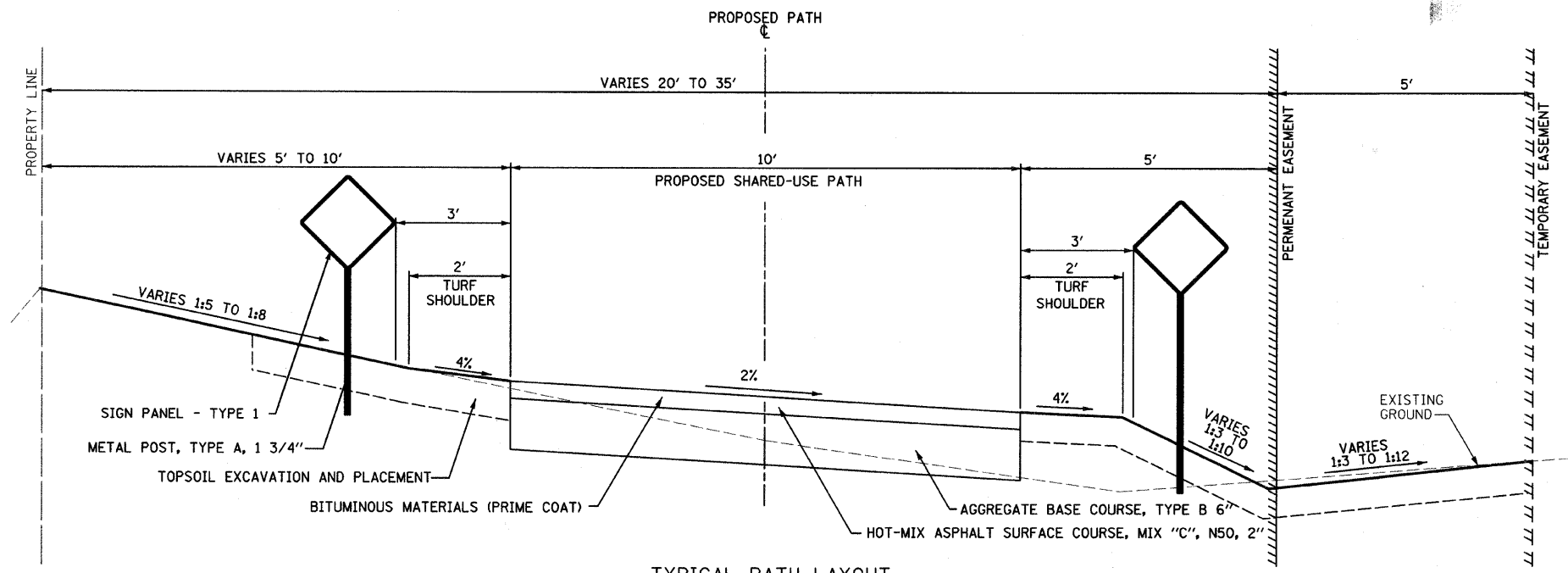
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

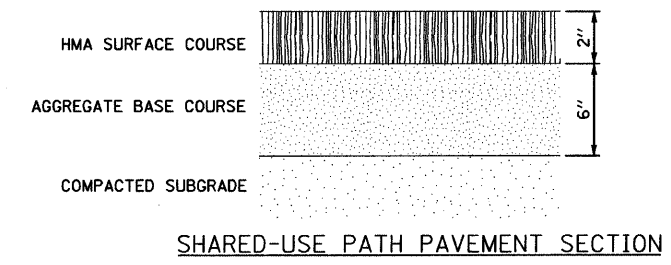
SUMMARY OF QUANTITIES

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	3
CONTRACT NO. 63217				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

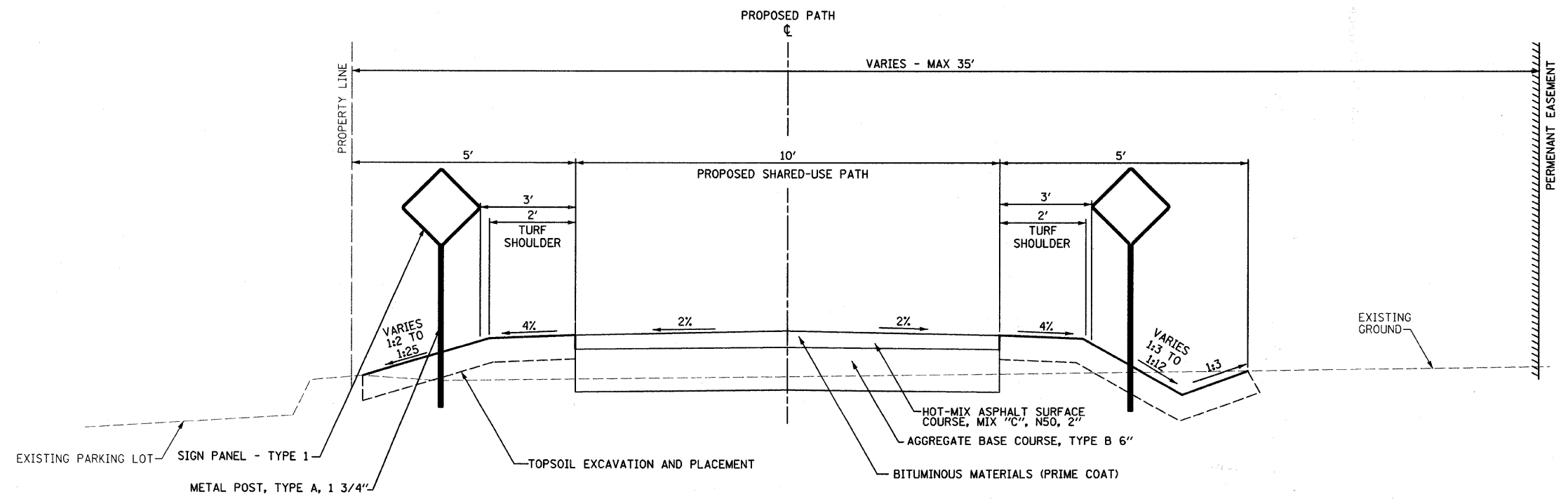


TYPICAL PATH LAYOUT  
 STA. 500+00 TO STA. 503+50  
 STA. 506+50 TO STA. 507+21



MIXTURE USE	AC TYPE	AIR VOIDS
HMA SURFACE CSE, MIX "C", N50 2" (IL 9.5 MM)	PG 64-22	4% @ 50 GYR

NOTE: THE UNIT WEIGHT USED TO CALCULATE HMA SURFACE MIXTURE IS 112 LB./SQ. YD. PER INCH THICKNESS.



TYPICAL PATH LAYOUT  
 STA. 503+50 TO STA. 506+50

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	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTION			
SCALE: AS SHOWN	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	4
CONTRACT NO. 63217				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STAGE I - EARTHWORK EXCAVATION AND FURNISHED EXCAVATION SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION TO STATION	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS
500+00	500+50	6.90	5.18	1.50
500+50	501+00	12.30	9.23	3.20
501+00	501+50	5.70	4.28	7.10
501+50	502+00	2.80	2.10	8.30
502+00	502+50	0.50	0.38	10.80
502+50	503+00	1.40	1.05	8.70
503+00	503+50	5.90	4.43	10.90
503+50	504+00	5.50	4.13	12.40
504+00	504+50	5.10	3.83	36.90
504+50	505+00	72.87	54.65	16.77
505+00	505+50	0.00	0.00	51.00
505+50	506+00	0.80	0.60	32.30
506+00	506+50	6.00	4.50	0.10
506+50	507+00	10.40	7.80	0.00
TOTAL	140	102	200	-100

STAGE II - EARTHWORK EXCAVATION AND FURNISHED EXCAVATION SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION TO STATION	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS	CUBIC YARDS
500+00	500+50	0.00	0.00	0.00
500+50	501+00	0.00	0.00	0.00
501+00	501+50	0.00	0.00	0.00
501+50	502+00	0.00	0.00	0.00
502+00	502+50	0.00	0.00	0.00
502+50	503+00	0.00	0.00	0.00
503+00	503+50	0.00	0.00	0.00
503+50	504+00	0.00	0.00	0.00
504+00	504+50	8.90	6.68	0.00
504+50	505+00	83.92	62.94	0.00
505+00	505+50	96.00	72.00	0.00
505+50	506+00	21.80	16.35	0.00
506+00	506+50	0.00	0.00	0.00
506+50	507+00	0.00	0.00	0.00
TOTAL	215	158	0	160

TOPSOIL EXCAVATION AND PLACEMENT SCHEDULE

LOCATION	TOPSOIL EXCAVATION AND PLACEMENT	
STATION TO STATION	CUBIC YARDS	
500+00	500+50	11.15
500+50	501+00	11.56
501+00	501+50	11.08
501+50	502+00	10.69
502+00	502+50	10.45
502+50	503+00	10.66
503+00	503+50	10.49
503+50	504+00	10.66
504+00	504+10	2.33
504+10	504+20	2.35
504+20	504+30	2.35
504+30	504+40	3.56
504+40	504+50	4.92
504+50	504+60	5.25
505+00	505+10	5.58
505+10	505+20	5.48
505+20	505+30	5.33
505+30	505+40	4.99
505+40	505+50	4.93
505+50	506+00	16.11
506+00	506+50	8.33
506+50	507+00	9.90
TOTAL	170	

AGGREGATE BASE COURSE, TYPE B 6" SCHEDULE

LOCATION	WIDTH	LENGTH	AGGREGATE BASE COURSE, TYPE B 6"
STATION TO STATION	FOOT	FOOT	SQUARE YARD
500+00	504+53	10.00	453.00
505+03	507+21	10.00	218.00
TOTAL			746.00

SIGN PANEL - TYPE 1 AND METAL POST, TYPE A SCHEDULE

SIGN TYPE	SIGN NUMBER	LOCATION	SIGN PANEL - TYPE 1	METAL POST TYPE A
			72000100	72900100
		STATION	SQUARE FEET	FOOT
STOP	R1-1	500+03	2	12
WALK BIKE		500+03	3	12
STOP AHEAD	W3-1	501+03	2	12
TURN WARNING	W1-1R	504+30	2	12
HILL WARNING	W7-5	504+30	2	12
TURN WARNING	W1-1R	505+91	2	12
STOP AHEAD	W3-1	506+19	2	12
STOP	R1-1	507+19	2	12
WALK BIKE		507+19	3	12
TOTAL			22	108

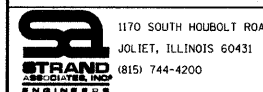
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 SCHEDULE

LOCATION	WIDTH	LENGTH	DEPTH	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
STATION TO STATION	FOOT	FOOT	INCHES	TONS
500+00	504+53	10.00	453.00	2.00
505+03	507+21	10.00	218.00	2.00
TOTAL				84.00

BITUMINOUS MATERIALS (PRIME COAT) SCHEDULE

LOCATION	WIDTH	LENGTH	APPLICATION RATE	BITUMINOUS MATERIALS (PRIME COAT)
STATION TO STATION	FOOT	FOOT	GAL/SQ YD	GALLONS
500+00	504+53	10.00	453.00	0.50
505+03	507+21	10.00	218.00	0.50
TOTAL				373.00

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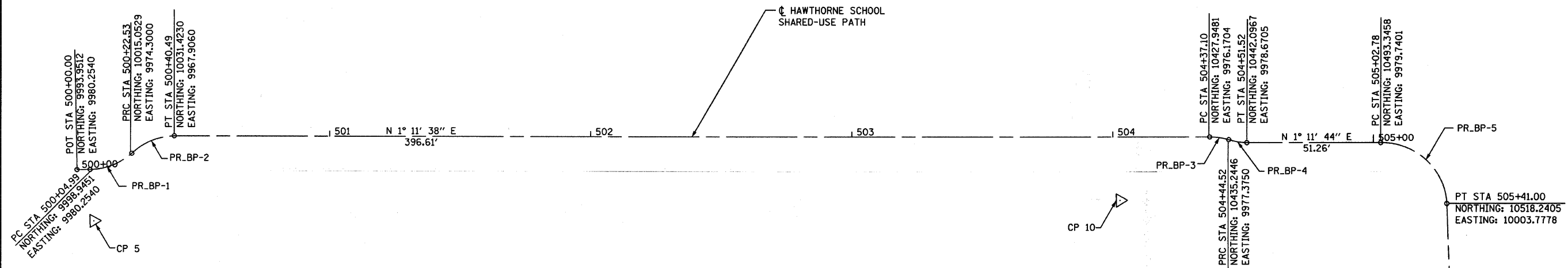
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

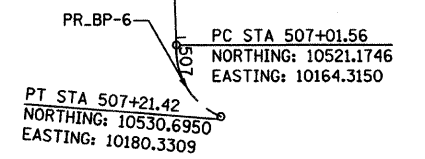
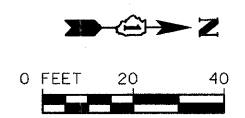
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	5
CONTRACT NO. 63217				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CP 15



<p>PROP. CURVE PR_BP-1 PI STA. = 500+14.15 N 10,008.0994 E 9,980.2540 Δ = 40° 34' 19" (LT) D = 231' 20' 59" R = 24.77' T = 9.15' L = 17.54' E = 1.64' e = N/A T.R. = N/A S.E. RUN = N/A P.C. STA = 500+04.99 P.T. STA = 500+22.53</p>	<p>PROP. CURVE PR_BP-2 PI STA. = 500+31.92 N 10,022.0377 E 9,968.0302 Δ = 41° 09' 15" (RT) D = 229' 10' 03" R = 25.00' T = 9.39' L = 17.96' E = 1.70' e = N/A T.R. = N/A S.E. RUN = N/A P.C. STA = 500+22.53 P.T. STA = 500+40.49</p>	<p>PROP. CURVE PR_BP-3 PI STA. = 504+40.84 N 10,431.6864 E 9,976.2271 Δ = 17° 00' 40" (RT) D = 229' 10' 59" R = 25.00' T = 3.74' L = 7.42' E = 0.28' e = N/A T.R. = N/A S.E. RUN = N/A P.C. STA = 504+37.10 P.T. STA = 504+44.52</p>	<p>PROP. CURVE PR_BP-4 PI STA. = 504+48.04 N 10,438.5794 E 9,978.5053 Δ = 16° 02' 04" (LT) D = 229' 10' 59" R = 25.00' T = 3.52' L = 7.00' E = 0.25' e = N/A T.R. = N/A S.E. RUN = N/A P.C. STA = 504+44.52 P.T. STA = 504+51.52</p>	<p>PROP. CURVE PR_BP-5 PI STA. = 505+26.75 N 10,517.3178 E 9,979.8234 Δ = 87° 35' 43" (RT) D = 229' 10' 59" R = 25.00' T = 23.97' L = 38.22' E = 9.64' e = N/A T.R. = N/A S.E. RUN = N/A P.C. STA = 505+02.78 P.T. STA = 505+41.00</p>	<p>PROP. CURVE PR_BP-6 PI STA. = 507+12.96 N 10,520.2892 E 10,175.6789 Δ = 70° 22' 04" (LT) D = 354' 22' 50" R = 16.17' T = 11.40' L = 19.86' E = 3.61' e = N/A T.R. = N/A S.E. RUN = N/A P.C. STA = 507+01.56 P.T. STA = 507+21.42</p>
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CP 10



FILE NAME = SA\JUL\65908--6599\6598\02A\Micros\Sheets\016598084-A1.dgn



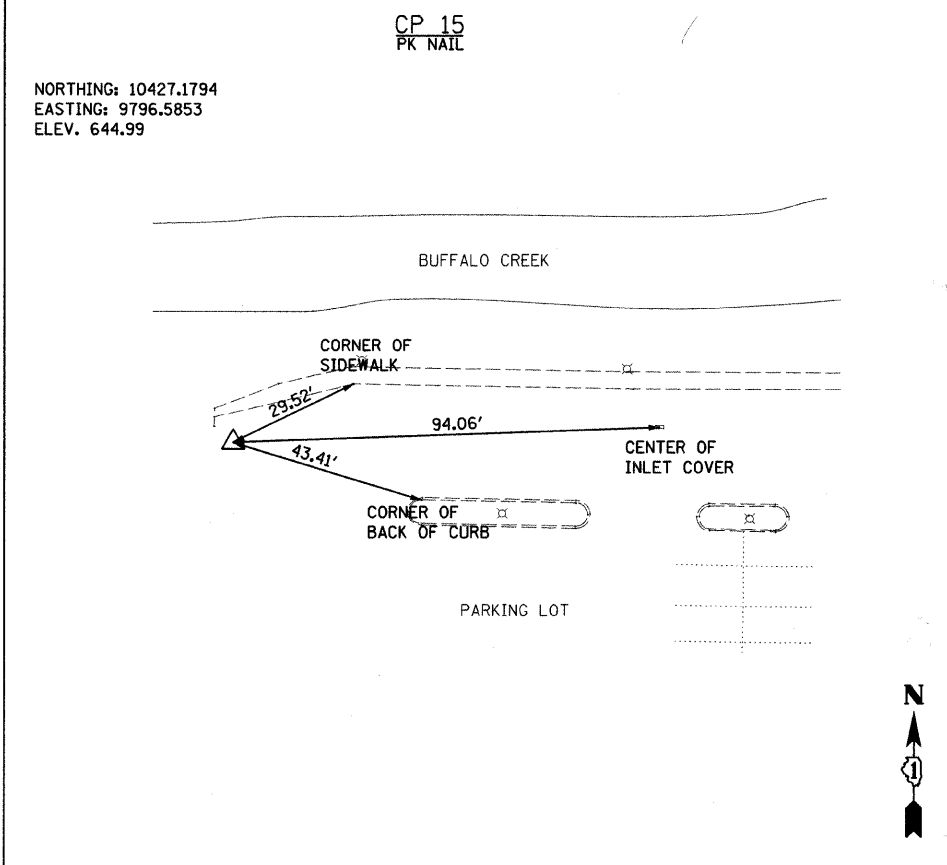
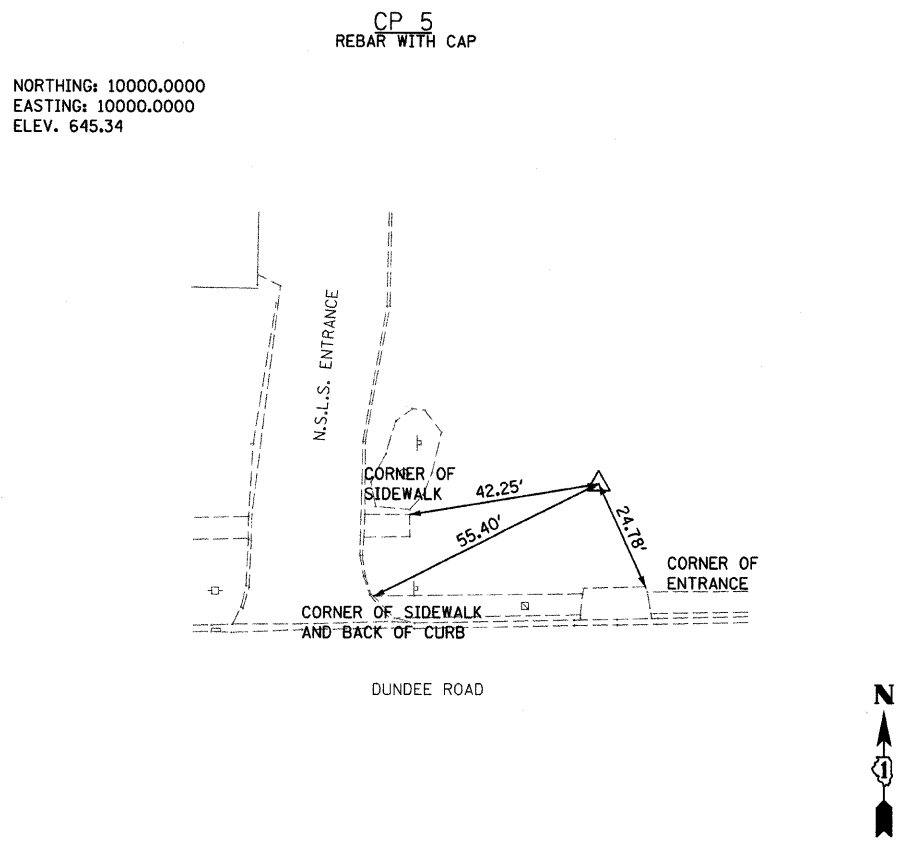
USER NAME = vanessa	DESIGNED - VLF	REVISED -
PLOT SCALE = 28.0000' / IN.	DRAWN - KAS	REVISED -
PLOT DATE = 5/22/2009	CHECKED - JAR	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS AND TIES

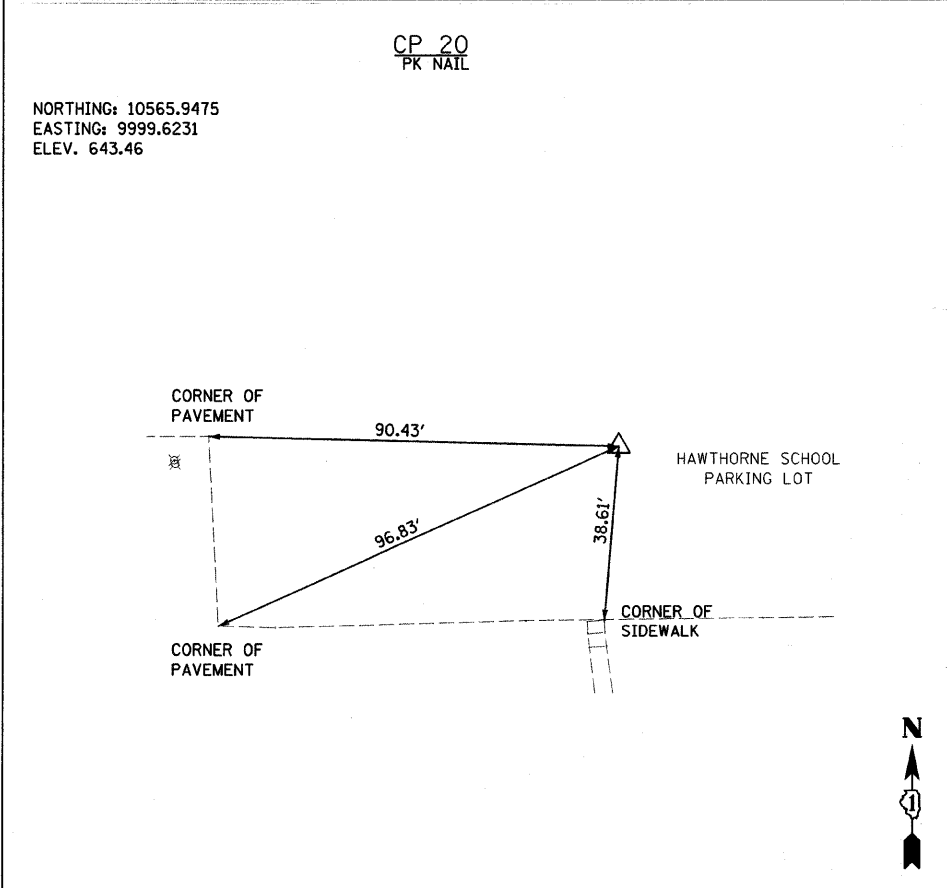
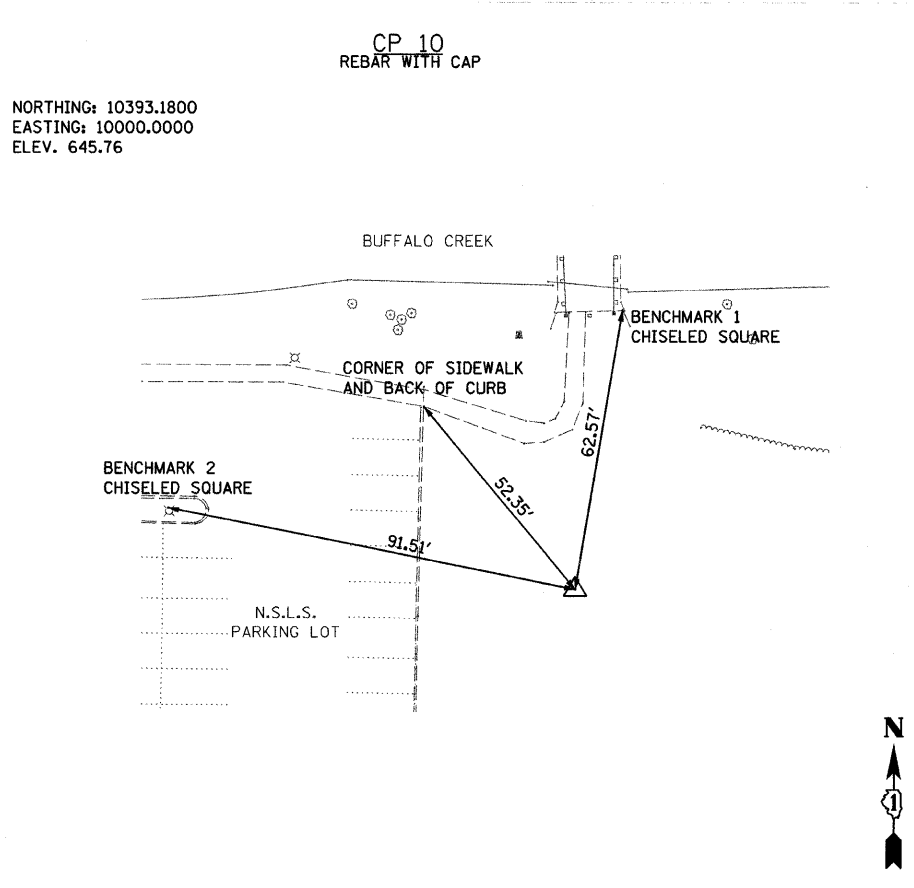
SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	6
CONTRACT NO. 63217				
FED. ROAD DIST. NO. (ILLINOIS) FED. AID PROJECT				



BM "1"  
STA. 504+64, 29.5' RT  
CHISELED SQUARE ON SOUTHEAST CORNER OF DECK  
OVER CREEK  
EL. 646.22

BM "2"  
STA. 504+18, 65.3' LT  
CHISELED SQUARE ON CONCRETE PAD FOR LIGHT POLE  
ON NORTHEAST CORNER OF LIBRARY PARKING LOT  
EL. 643.70



FILE NAME = SA\JUL\5500--6597N\5558\004\Micro\Sheets\DI6558004-CP.dgn

	1170 SOUTH HOUBOLT ROAD JOLIET, ILLINOIS 60431 (815) 744-4200	USER NAME = vanessaf	DESIGNED - VLF	REVISED -
		PLOT SCALE = 20,0000' / IN.	DRAWN - KAS	REVISED -
		PLOT DATE = 5/22/2009	CHECKED - JAR	REVISED -
			DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONTROL POINT TIES AND BENCHMARKS**

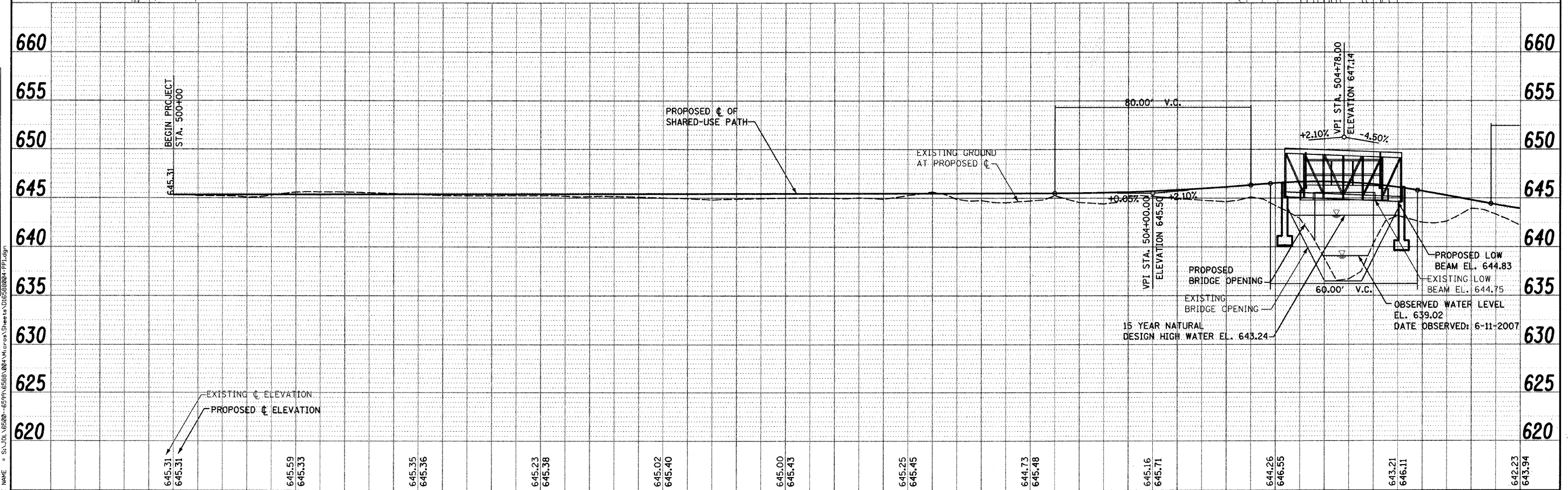
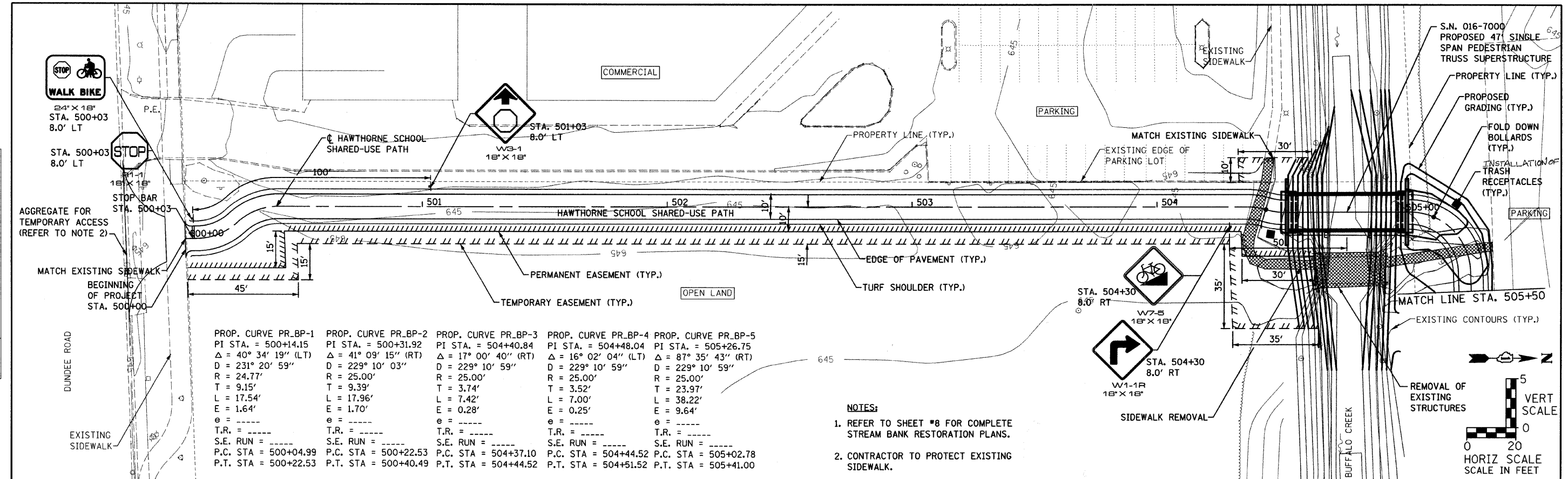
SCALE: AS SHOWN    SHEET NO.    OF    SHEETS    STA.    TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	7
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 63217				



DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 REVISIONS: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 REVISIONS: \_\_\_\_\_  
 PROFILE: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 NO. \_\_\_\_\_



500+00	501+00	502+00	503+00	504+00	505+00
645.31 645.31	645.59 645.33	645.35 645.36	645.23 645.38	645.02 645.40	645.00 645.43
645.16 645.71	644.26 646.55	643.21 646.11	642.23 643.94		

**STRAND**  
 ASSOCIATES, INC.  
 ENGINEERS

1170 SOUTH HOBBOLETT ROAD  
 JOLIET, ILLINOIS 60431  
 (815) 744-4200

USER NAME = vanessaf  
 DESIGNED - VLF  
 CHECKED - JAR  
 DRAWN - KAS  
 PLOT SCALE = 20,0000" / IN.  
 PLOT DATE = 5/22/2009

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE**

SCALE: AS SHOWN SHEET NO. 1 OF 2 SHEETS STA. 500+00 TO STA. 505+50

F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 06-00069-00-BR COOK 26 8  
 CONTRACT NO. 63217

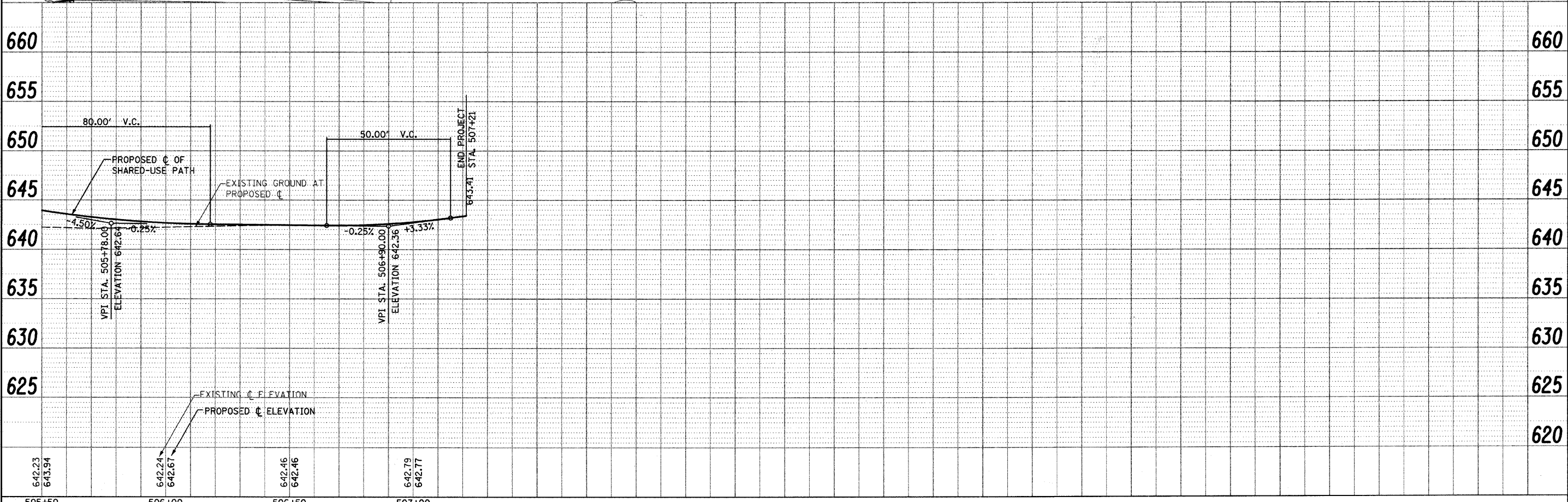
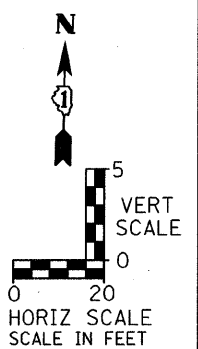
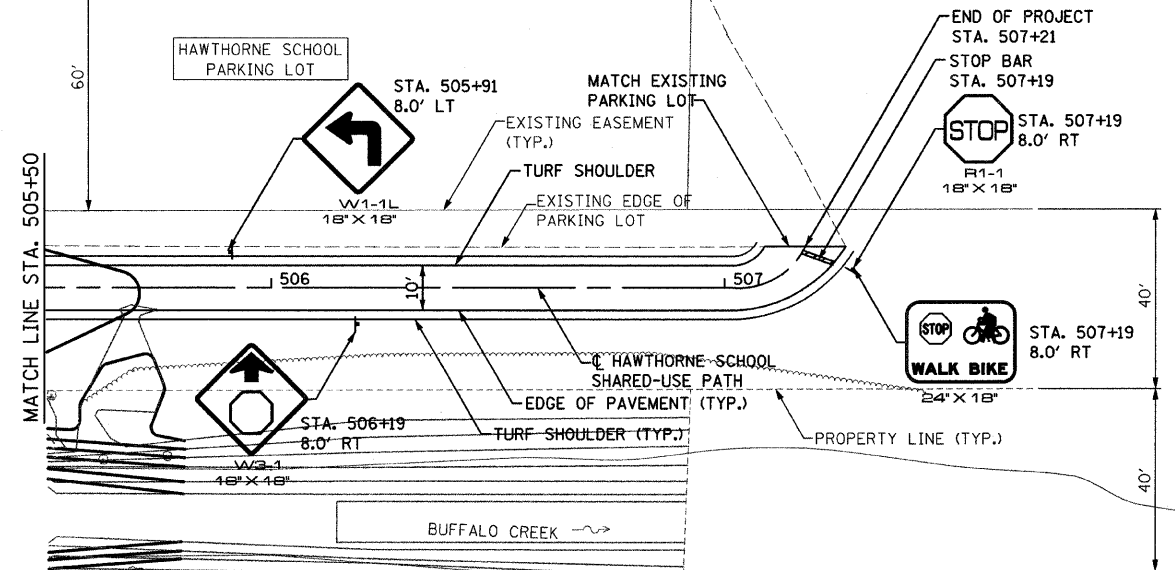
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 ALIGNED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 NO. \_\_\_\_\_

DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 GRADES \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 NO. \_\_\_\_\_

PROP. CURVE PR\_BP-6  
 PI STA. = 507+12.96  
 $\Delta$  = 70° 22' 04" (LT)  
 D = 354° 22' 50"  
 R = 16.17'  
 T = 11.40'  
 L = 19.86'  
 E = 3.61'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA = 507+01.56  
 P.T. STA = 507+21.42



505+50	506+00	506+50	507+00
642.23 643.94	642.24 642.67	642.46 642.46	642.79 642.77
USER NAME = vanessaf		DESIGNED - VLF	REVISED -
PLOT SCALE = 20.0000' / IN.		CHECKED - JAR	REVISED -
PLOT DATE = 5/22/2009		DRAWN - KAS	REVISED -
		CHECKED - JAR	REVISED -

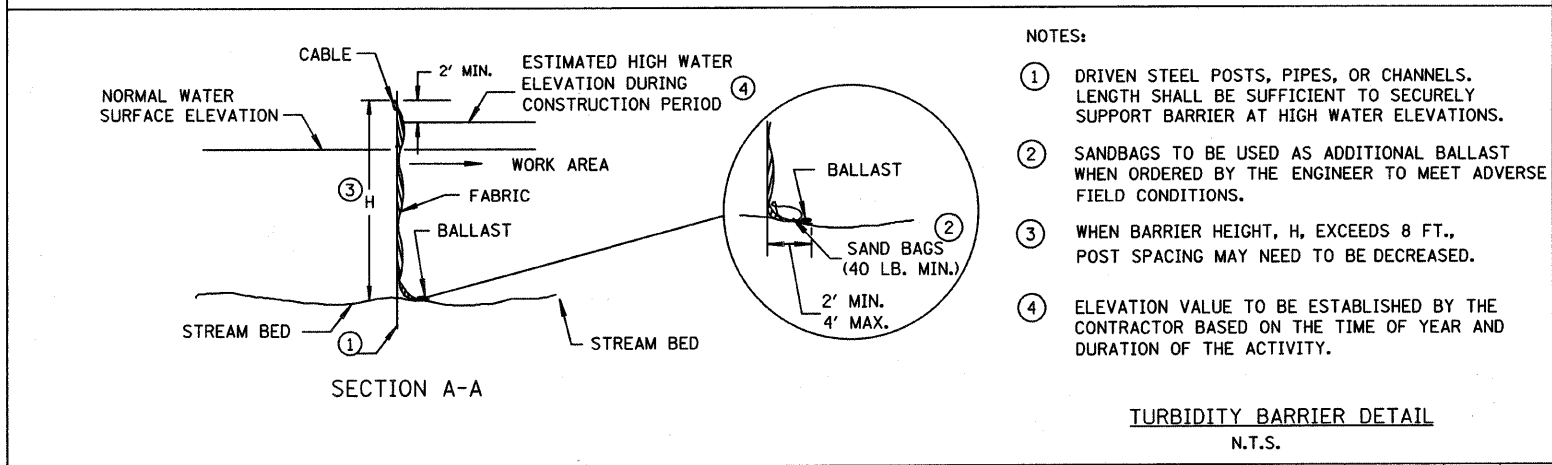
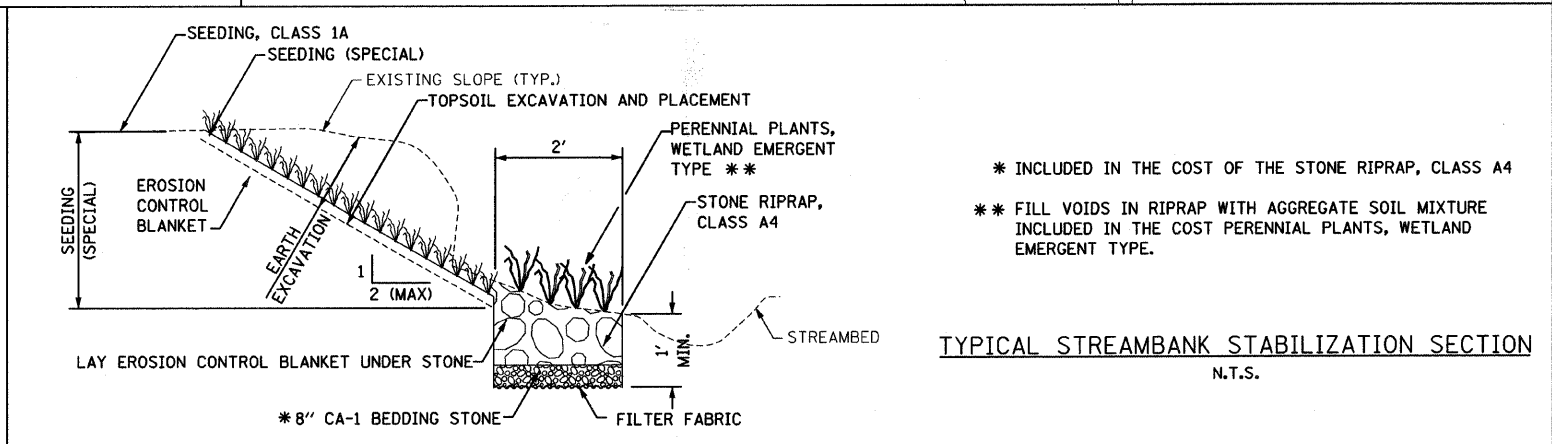
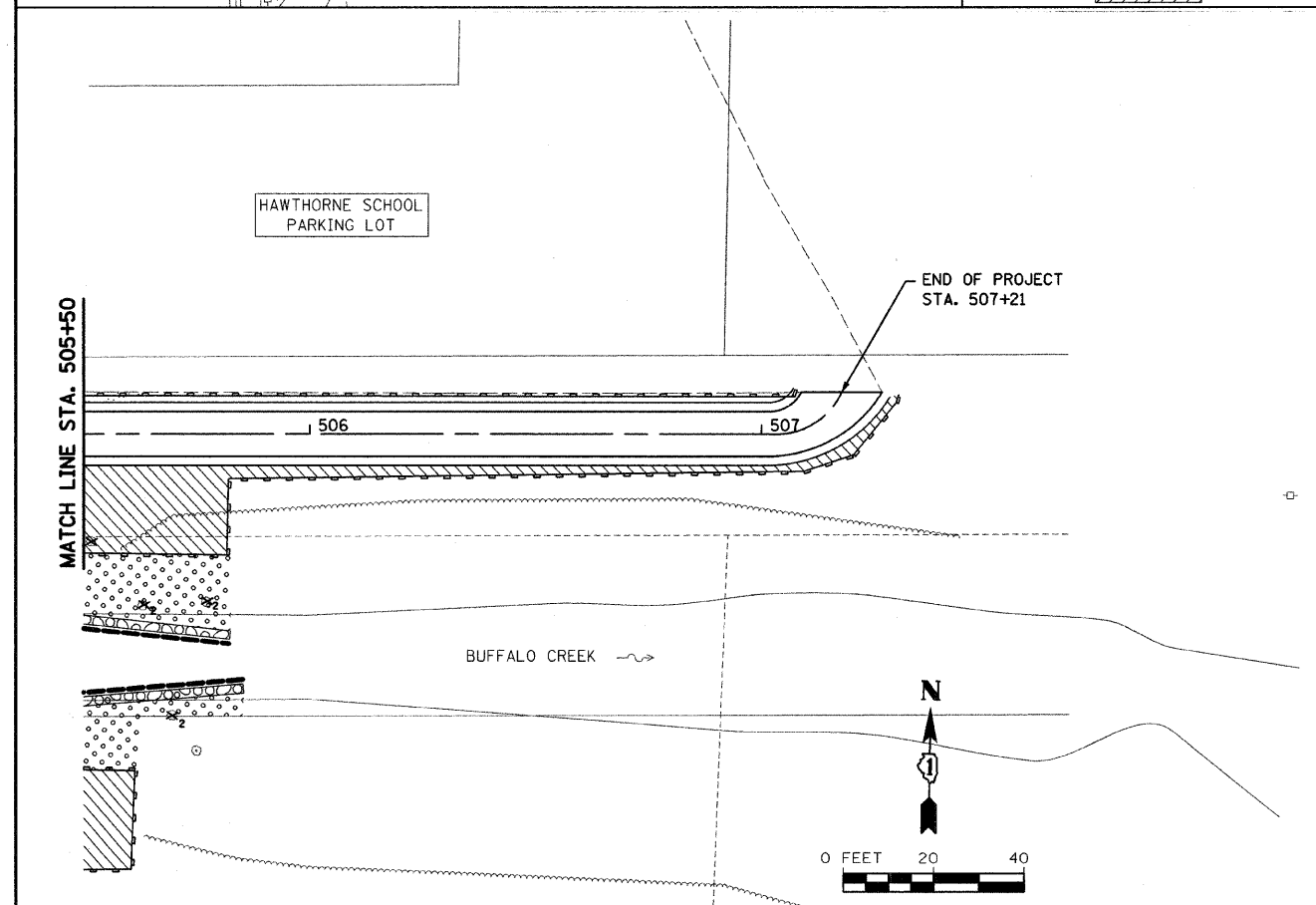
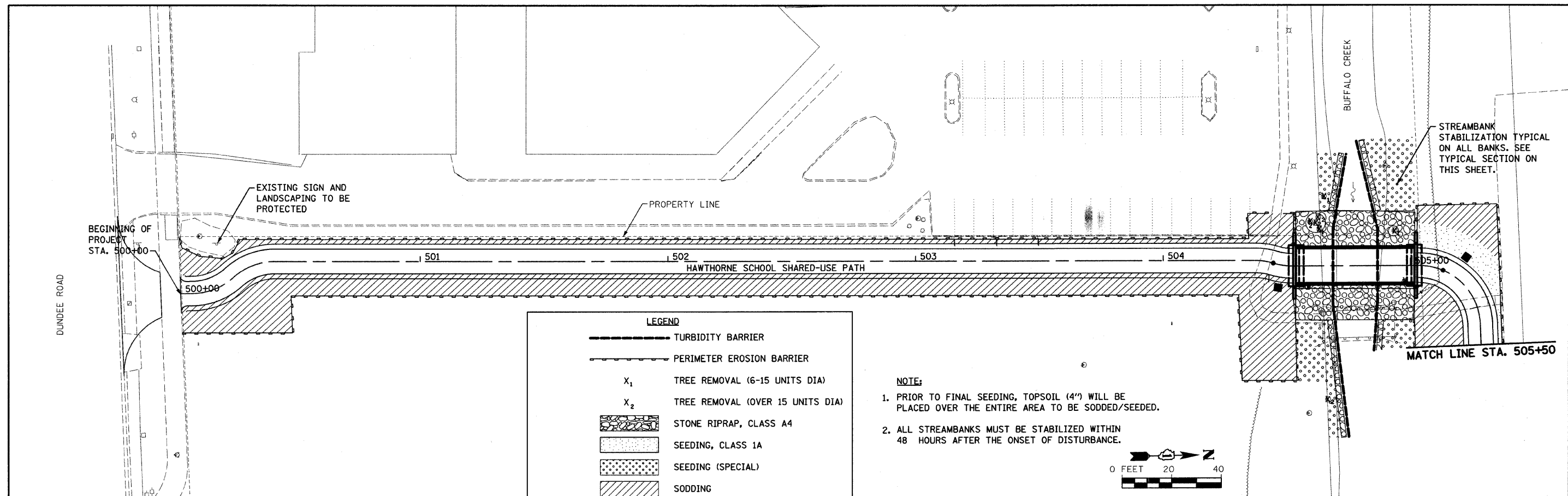
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

SCALE: AS SHOWN SHEET NO. 2 OF 2 SHEETS STA. 505+50 TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	9
CONTRACT NO. 63217				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





1170 SOUTH HOBBOLT ROAD  
JOLIET, ILLINOIS 60431  
(815) 744-4200



FILE NAME =	USER NAME = vanessaf	DESIGNED - VLF	REVISED -
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	PLOT SCALE = 20.0000' / IN.	CHECKED - JAR	REVISED -
	PLOT DATE = 5/22/2009	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL

SCALE: SHEET NO. OF SHEETS STA. 500+00 TO STA. 507+21

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63217	

**EROSION CONTROLS AND SEDIMENT CONTROLS-BEGINNING OF CONSTRUCTION**

1. THE AREA BETWEEN THE EXISTING AND PROPOSED PERMANENT/TEMPORARY EASEMENT BOUNDARIES AND LIMITS OF THE PROJECT SHALL BE IMPROVED AND MANAGED FOR THE PURPOSES OF CONTROLLING EROSION WITHIN THE AREA, REDUCING WATER FLOW BY TEMPORARY DIVERSION AND MINIMIZING SILTATION INTO THE CONSTRUCTION ZONE, AND ESTABLISHING VEGETATIVE COVER FOR THE PURPOSE OF BECOMING PERMANENT VEGETATION ACTING AS AN EROSION BARRIER. RESPONSIBILITIES OF THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION WILL CONSIST OF THE FOLLOWING:
  - (A) AREAS OF EXISTING VEGETATION (WOODS AND GRASSLANDS) OUTSIDE PROPOSED CONSTRUCTION SLOPE LIMITS SHALL BE IDENTIFIED AND PROTECTED FROM BRUSH CUTTING, TREE REMOVAL AND OTHER ACTIVITIES WHICH WOULD BE DETRIMENTAL TO THEIR MAINTENANCE AND DEVELOPMENT,
  - (B) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL CLEARING AND GRUBBING.
  - (C) AS SOON AS REASONABLE ACCESS IS AVAILABLE (INCLUDING TREE REMOVAL) TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, SEDIMENT BASINS, RIPRAP DITCH CHECKS, TEMPORARY DITCH CHECKS, TURBIDITY BARRIER AND/OR EROSION CONTROL FENCE SHALL BE INSTALLED AS INDICATED BY PLANS AND AS DIRECTED BY THE ENGINEER,
  - (D) AT LOCATIONS WHERE SIGNIFICANT AMOUNTS OF WATER DRAIN ONTO THE CONSTRUCTION ZONE FROM OUTSIDE ADJACENT AREAS, EROSION CONTROL FENCE, TEMPORARY DITCH CHECKS, OR RIPRAP DITCH CHECKS SHALL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINES. EROSION CONTROL ITEMS SHALL NOT BE INSTALLED WHERE POTENTIAL FLOODING MAY OCCUR TO UPSTREAM PRIVATE PROPERTY WHICH COULD CAUSE CROP DAMAGES OR OTHER UNDESIRABLE CONDITIONS.
2. FILTER AREAS SHALL PROTECT THE CONSTRUCTION SITE FROM WINDS, EXCESS SUN, NOISE AND DUST.

- (F) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED AND APPROVED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUN-OFF IN COMPLIANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- (G) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT WEEKLY OR AFTER A SINGULAR OR CUMULATIVE RAINFALL EVENT(S) OF 0.5 INCHES OR MORE OVER A 24-HOUR PERIOD. THE PROJECT MAY ADDITIONALLY BE INSPECTED BY A COOK COUNTY SWCD ENFORCEMENT OFFICER, NRCS OR ARMY CORPS OF ENGINEERS DISTRICT REPRESENTATIVE THROUGHOUT ALL ACTIVE CONSTRUCTION PHASES TO DETERMINE WHETHER ALL SOIL EROSION/SEDIMENT CONTROL PRACTICES HAVE BEEN INSTALLED AND ARE FUNCTIONING PROPERLY.
- (H) SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER.
- (I) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE TEMPORARY EROSION CONTROL SYSTEM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**MAINTENANCE OF SITE AFTER CONSTRUCTION**

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED. ALL TRAPPED SEDIMENT IS REQUIRED TO BE PROPERLY STABILIZED OR DISPOSED.
2. SIDE SLOPES MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING.
3. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE IS RECEIVED AT THE FINAL INSPECTION. ALL SE/SC SITE INSPECTIONS WILL BE DOCUMENTED WITH ALL INFORMATION BEING ACCURATE AND COMPLETE

**SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES:**

1. PLACEMENT OF PERIMETER EROSION BARRIER PRIOR TO THE COMMENCEMENT OF ANY PATH OR BRIDGE WORK,
2. CONSTRUCTION OF THE REPLACEMENT STRUCTURE CARRYING SHARED USE PATH OVER BUFFALO CREEK,
3. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL,
4. REMOVAL OF THE EXISTING STRUCTURE CARRYING SHARED USE PATH OVER BUFFALO CREEK,
5. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS RIPRAP DITCH LINING, RIPRAP STILLING BASINS, RIPRAP DRY DAMS, EXCELSIOR BLANKET, SEEDING, ETC., THE TURBIDITY BARRIER SHALL BE REMOVED BEFORE PLACEMENT OF RIPRAP.
6. FINAL GRADING, PAVING AND OTHER MISCELLANEOUS ITEMS.

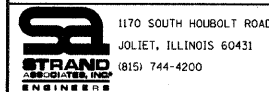
**SEDIMENT AND EROSION CONTROL NOTES:**

1. THE SOIL AND EROSION CONTROL PROVISIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION SPECIFICATIONS OF THE ILLINOIS URBAN MANUAL, LATEST EDITION.
2. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE ONSET OF CONSTRUCTION.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION. SEDIMENT CONTROL MEASURES SHALL BE REPAIRED, REPLACED, AND MAINTAINED AFTER A SINGULAR OR CUMULATIVE RAINFALL EVENT(S) OF 0.5 INCHES OR MORE OVER A 24-HOUR PERIOD.
4. INSPECTION AND MAINTENANCE RECORDS FOR THE EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO BE KEPT ON-SITE. COPIES OF THE INSPECTION RECORDS ARE REQUIRED TO BE SUBMITTED TO COOK COUNTY IN A MONTHLY INSPECTION REPORT.
5. ADDITIONAL EROSION CONTROL PROVISIONS TO THOSE SHOWN ON THE PLANS MAY BE REQUIRED BY THE COOK COUNTY ENFORCEMENT OFFICER AS WARRANTED BY SITE CONDITIONS.
6. ALL ADJACENT PARKING LOTS MUST BE KEPT CLEAR OF DEBRIS AND CLEANED WHEN NECESSARY.

**STABILIZATION PRACTICES DURING CONSTRUCTION:**

1. DURING PATH CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION SLOPE LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED FROM DAMAGING EFFECTS OF CONSTRUCTION. THE CONTRACTOR SHALL NOT USE THIS AREA FOR THE PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
  - (A) LOCATIONS WITHIN THE CONSTRUCTION ZONE, WHICH HAVE POTENTIAL HIGH LEVELS OF WATER, AS DETERMINED BY THE ENGINEER, SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
  - (B) TOPSOIL AND EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN (14) DAYS.
  - (C) AS THE CONTRACTOR CONSTRUCTS A PORTION OF PATH IN A FILL SECTION, HE/SHE SHALL FOLLOW THE FOLLOWING STEPS AS DIRECTED BY THE ENGINEER:
    1. INSTALL TEMPORARY EROSION CONTROL SYSTEMS AT LOCATIONS WHERE WATER LEAVES AND ENTERS THE CONSTRUCTION ZONE,
    2. INSTALL TEMPORARY SEED AT HIGHLY ERODABLE AREAS OUTSIDE THE CONSTRUCTION SLOPE LIMITS,
    3. CONSTRUCT DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS,
    4. CONSTRUCT NECESSARY EMBANKMENT AT BRIDGE LOCATIONS AND THEN PERFORM INSTALLATION OF BRIDGE,
    5. CONSTRUCT THE EMBANKMENT TO THE PROPOSED LINES AND GRADES SHOWN ON THE PLANS, INSTALL PERMANENT EROSION CONTROL AND CONDUCT FINAL SHAPING TO THE SLOPES.
  - (D) THE CONTRACTOR SHALL IMMEDIATELY FOLLOW MAJOR EARTH MOVING OPERATIONS WITH FINAL GRADING OPERATIONS. AFTER THE MAJOR EARTH SPREAD OPERATION HAS MOVED TO A NEW LOCATION, FINAL GRADING SHALL BE COMPLETED WITHIN FOURTEEN (14) DAYS. IF GRADING IS NOT COMPLETED WITHIN FOURTEEN (14) DAYS, ALL MAJOR EARTH MOVING OPERATIONS WILL BE STOPPED, AS DIRECTED BY THE ENGINEER, UNTIL DISTURBED AREAS ARE FINAL GRADED AND SEEDED,
  - (E) EXCAVATED AREAS AND EMBANKMENTS SHALL BE PERMANENTLY SEEDED UPON FINAL GRADING.

FILE NAME = SA\JUL\65908-65974\65988\004\Micros\Sheets\065988004-ESC2.dgn



USER NAME = vonessaf	DESIGNED - VLF	REVISED -
PLOT SCALE = 20,0000' / IN.	DRAWN - KAS	REVISED -
PLOT DATE = 5/22/2009	CHECKED - JAR	REVISED -
	DATE -	REVISED -

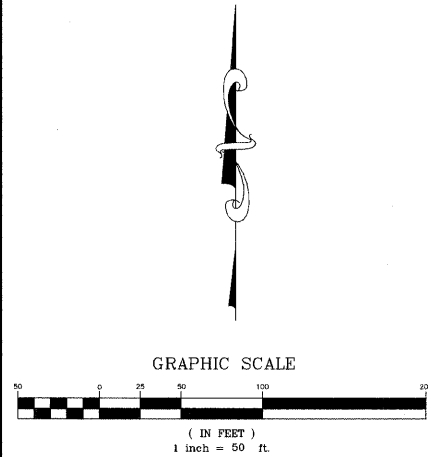
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL NOTES**

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	11
CONTRACT NO. 63217				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

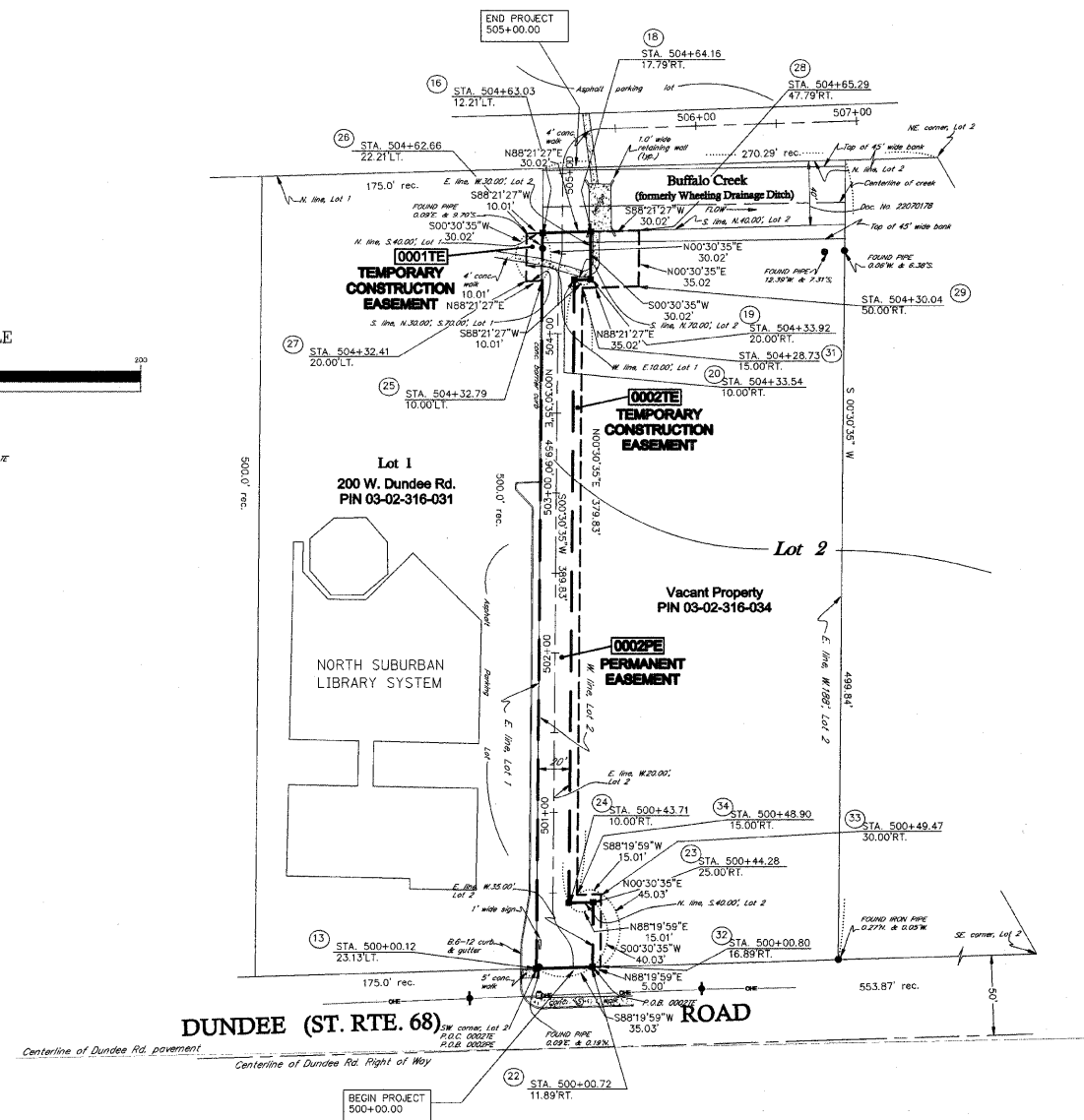
PART OF THE SW.1/4 OF SECTION 2, TOWNSHIP 42 NORTH, RANGE 11 EAST OF THE 3rd PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.



GRAPHIC SCALE

( IN FEET )  
1 inch = 50 ft

BASED ON BEARINGS TO THE  
ILLINOIS STATE PLANE COORDINATE  
SYSTEM EAST ZONE (NAD83)



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- 129.32' (COMP)
- ( ) RECORD DATA
- EXISTING BUILDING

- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER. I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS )  
COUNTY OF WILL )SS

RUETTIGER, TONELLI & ASSOCIATES, INC., ILLINOIS PROFESSIONAL DESIGN FIRM No. 184-001251, HEREBY CERTIFIES THAT IT HAS PLATTED THE PROPERTY DESCRIBED IN THE ABOVE CAPTION AND AS SHOWN ON THE ANNEXED PLAT, WHICH IS A TRUE AND CORRECT REPRESENTATION OF SAID LEGAL DESCRIPTION.

GIVEN UNDER MY HAND AND SEAL THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ .

BY \_\_\_\_\_ ILLINOIS PROFESSIONAL LAND SURVEYOR (MY LICENSE EXPIRES 11-30-2008) TO ENSURE AUTHENTICITY OF THIS DRAWING, IT MUST BEAR THE EMBOSSED SEAL OF THE DESIGN FIRM OR PROFESSIONAL LICENSEE WHO PREPARED THIS DRAWING.

**RUETTIGER, TONELLI & ASSOCIATES, INC.**  
Land Surveyors/Engineers/Planners/Landscape Architects/C.I.S. Consultants  
2124 ONEIDA STREET, JOLIET, ILLINOIS 62415  
PH. (815) 744-6600 FAX (815) 744-0101  
2601 SOUTH WASHINGTON STREET, SUITE 170, NAPERVILLE, ILLINOIS 60563  
PH. (630) 420-7740 FAX (630) 420-7741

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREV. DEED ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
0001	NEED TITLE	2.009	N/A	2.009	N/A	TE-0.007 300 S.F.	CONST.	03-02-316-031	
0002	NEED TITLE	2.158	N/A	2.158	N/A	TE-0.076 PE-0.232	CONST. PERMANENT	03-02-316-034	

**PLAT OF EASEMENT**  
VILLAGE OF WHEELING  
Hawthorne Pedestrian Bridge  
SECTION 06-00069-00-BR COOK COUNTY  
PROJECT TE-00D1 (689) JOB NO. R-91-446-06  
STATION 500+00 TO STATION 505+00  
SCALE: 1"=50' SHEET 12 OF 26

R.T.&A. JOB NO. 2008-0394-E

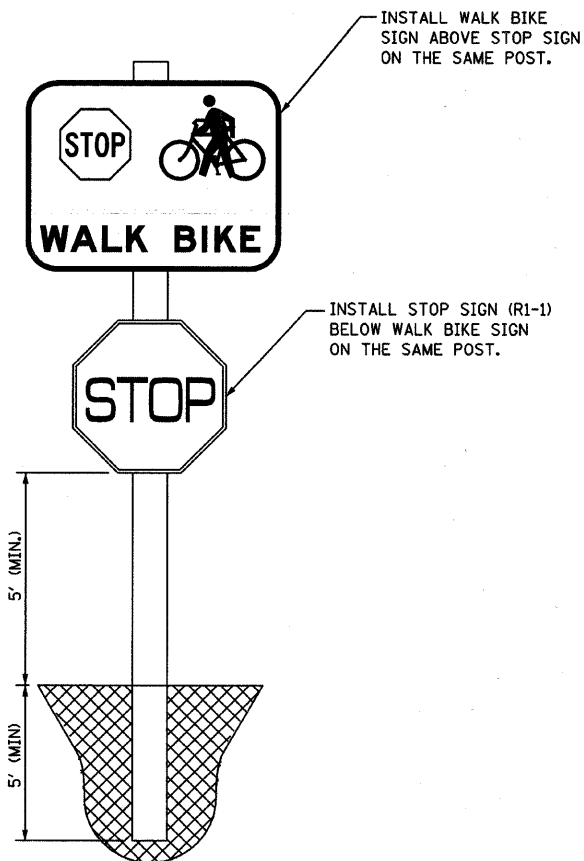
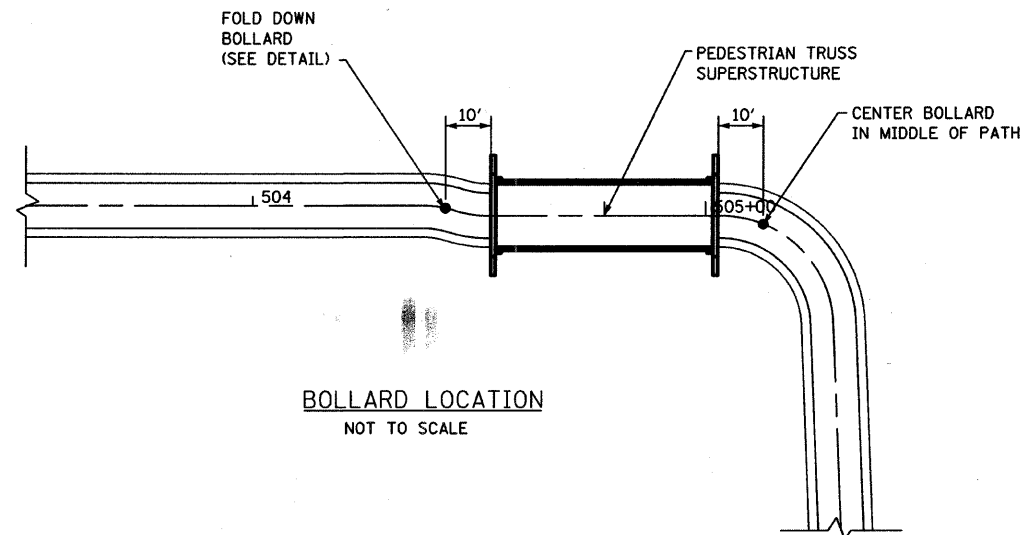
REVISION DATE	REVISION	MADE BY

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196



WALK BIKE SIGN TO BE CREATED USING SIGN R1-1, SYMBOL 6-7 AND SYMBOL 6-10. CLEARVIEW TEXT FONT TO BE USED.

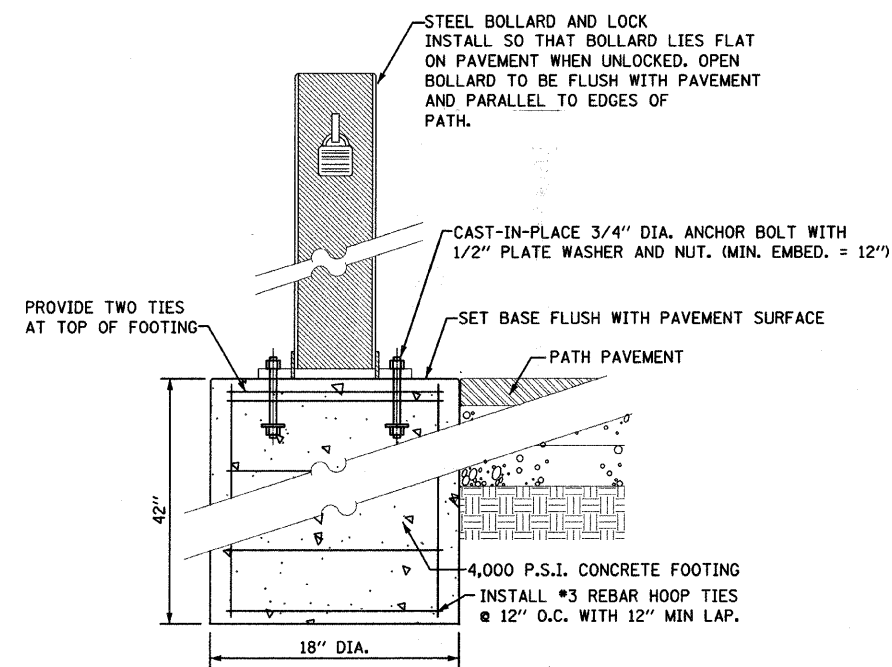
WALK BIKE SIGN  
NOT TO SCALE



INSTALL WALK BIKE SIGN ABOVE STOP SIGN ON THE SAME POST.

INSTALL STOP SIGN (R1-1) BELOW WALK BIKE SIGN ON THE SAME POST.

STOP AND WALK BIKE SIGN  
NOT TO SCALE



STEEL BOLLARD AND LOCK INSTALL SO THAT BOLLARD LIES FLAT ON PAVEMENT WHEN UNLOCKED. OPEN BOLLARD TO BE FLUSH WITH PAVEMENT AND PARALLEL TO EDGES OF PATH.

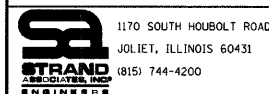
CAST-IN-PLACE 3/4" DIA. ANCHOR BOLT WITH 1/2" PLATE WASHER AND NUT. (MIN. EMBED. = 12")

SET BASE FLUSH WITH PAVEMENT SURFACE

4,000 P.S.I. CONCRETE FOOTING  
INSTALL #3 REBAR HOOP TIES @ 12" O.C. WITH 12" MIN LAP.

FOOTING AT FOLD DOWN BOLLARD  
NOT TO SCALE

FILE NAME = SA\JDL\65800--65974\65800\004\Micros\Sheets\0165800004-D1.dgn



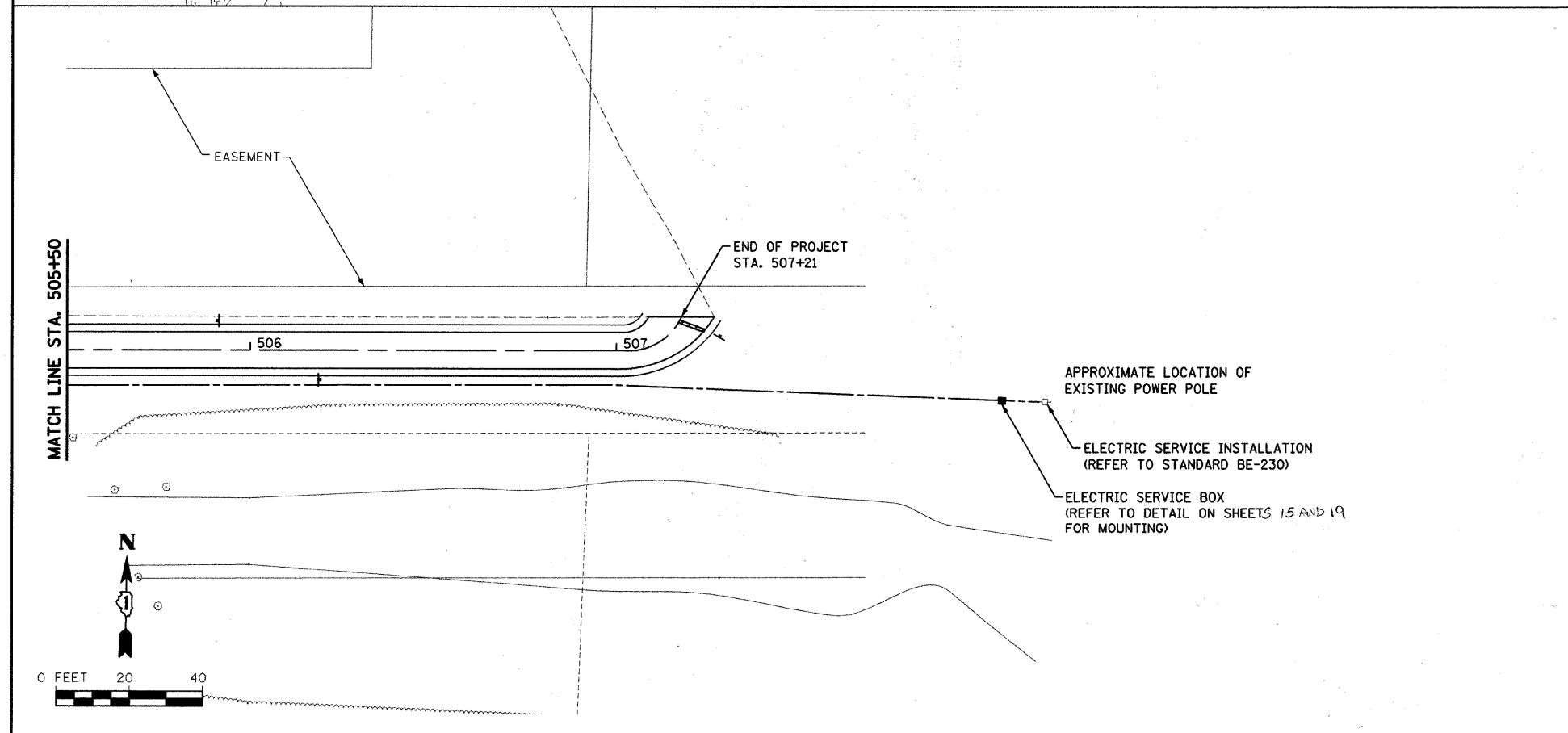
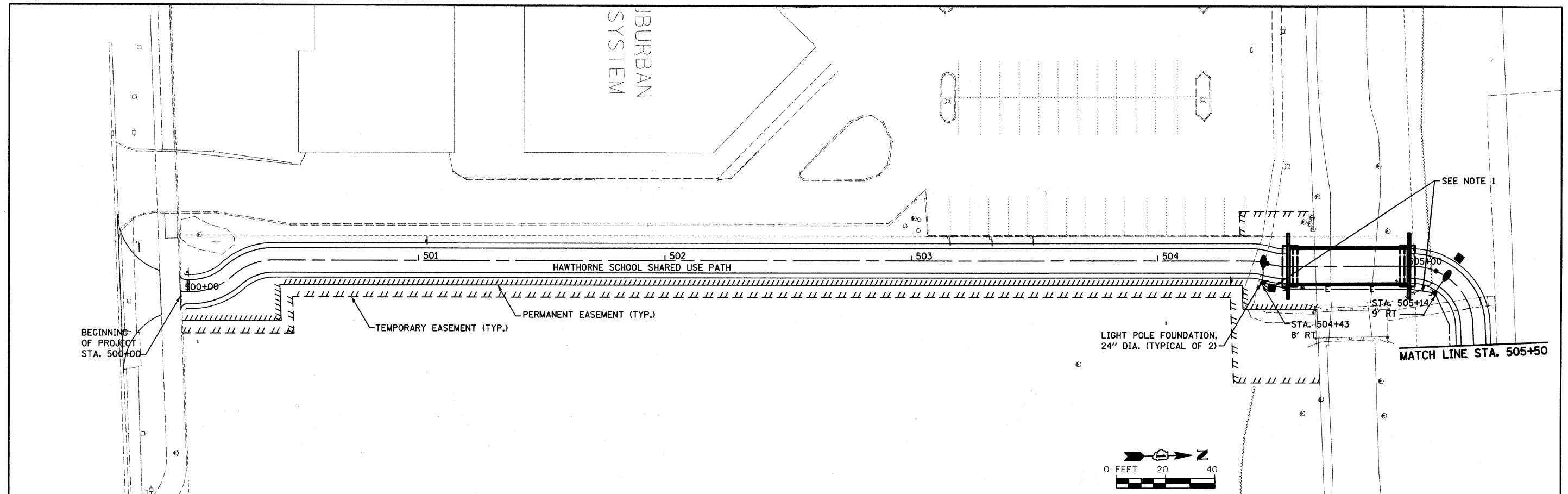
USER NAME = vanessaf	DESIGNED - VLF	REVISED -
PLOT SCALE = 20,0000 ' / IN.	DRAWN - KAS	REVISED -
PLOT DATE = 5/22/2009	CHECKED - JAR	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	13
CONTRACT NO. 63217				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



**NOTE:**

1. ELECTRICAL CONTRACTOR SHALL PROVIDE 3-1C NO. 6 AND 1/C NO. 8 GROUND (XLP-TYPE USE) THROUGH END POST OF BRIDGE ON NORTH SIDE, UP TO TOP CHORD, THROUGH TOP CHORD TO SOUTH SIDE, AND DOWN END POST FOR POWER TO SOUTH SIDE LIGHT FIXTURE. REFER TO BRIDGE MANUFACTURER DRAWINGS FOR ADDITIONAL DETAILS. THE BRIDGE CHORDS AND END POSTS SHALL SERVE AS THE CONDUIT.

**LEGEND**

- INSTALL EXISTING LIGHT POLE WITH LUMINAIRE 30.0 M.H., 250 WATT
- UNIT DUCT 600V, 3-1C NO. 6, 1/C NO. 8, GROUND (XLP-TYPE USE) 1" DIA. POLYETHYLENE
- CONDUIT IN TRENCH 2" DIA., GALVANIZED STEEL
- ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 6, 1/C NO. 8 GROUND

**LOAD TABLE**

CIRCUIT	RED PHASE LOAD (WATTS)	BLACK PHASE LOAD (WATTS)
A	280	
B		280
TOTALS	280	280

1170 SOUTH HUBBOLT ROAD  
 JOLIET, ILLINOIS 60431  
 (815) 744-4200  
**GR**  
 GEOTECHNICAL ENGINEERS

FILE NAME =	USER NAME = vanessaf	DESIGNED - VLF	REVISED -
S:\JOL\6500-6599\6500\004\Micros\Sheet\DI6500004-LPI.dgn		DRAWN - KAS	REVISED -
	PLOT SCALE = 20,0000' / IN.	CHECKED - JAR	REVISED -
	PLOT DATE = 5/22/2009	DATE -	REVISED -

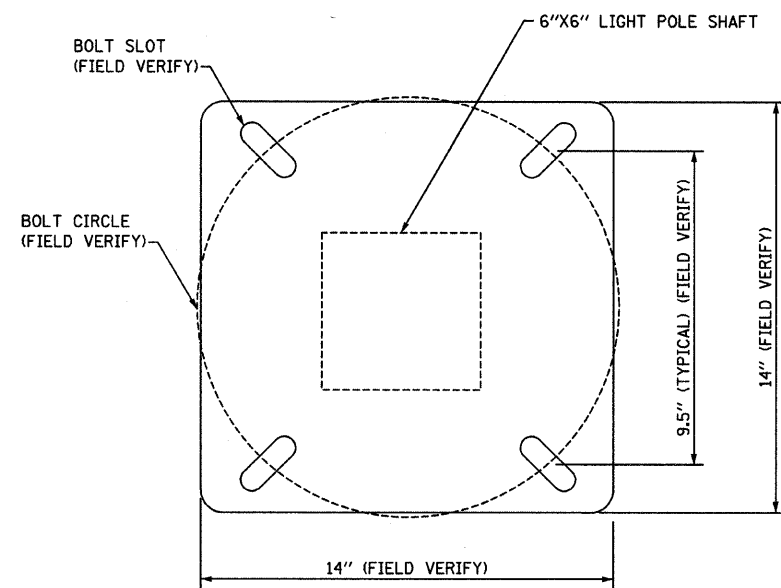
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LIGHTING PLANS**

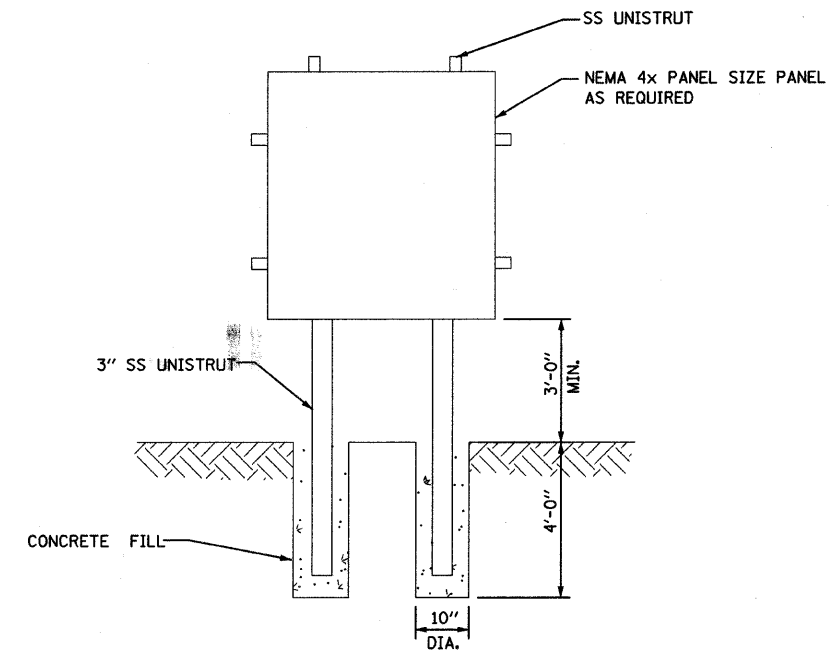
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	14
CONTRACT NO. 63217				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				





LIGHT POLE BASE PLATE DETAIL

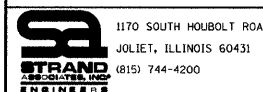


CONTROL PANEL MOUNTING

**LIGHTING GENERAL NOTES:**

1. 48 HOURS PRIOR TO THE START OF ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES.
2. LUMINAIRE MOUNTING HEIGHT FOR REGULAR POLES SHALL BE 30.0 FEET.
3. ALL LUMINAIRES SHALL BE 250 WATTS, DISTRIBUTION TYPE II, MEDIUM, CUTOFF, AT 120V, WITH INTEGRAL 120V PHOTOCCELL.
4. SETBACK DIMENSIONS FOR LIGHT POLES SHALL BE 2.0 FEET FROM THE FACE OF THE LIGHT POLE FOUNDATION TO THE EDGE OF TRAVELED PAVEMENT (EOP).
5. LIGHT FIXTURE MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
6. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR AT EACH SERVICE AND LIGHT POLE. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
7. LIGHT POLES SHALL NOT BE INSTALLED WITHOUT LUMINAIRES.
8. LIGHT POLES SHALL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.

FILE NAME = SA\JOL\65908--65908\65908\084\Micros\Sheets\DI65908084-LP2.dgn



USER NAME = vanessaf	DESIGNED - VLF	REVISED -
	DRAWN - KAS	REVISED -
PLOT SCALE = 20,0000 ' / IN.	CHECKED - JAR	REVISED -
PLOT DATE = 5/22/2009	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	15
CONTRACT NO. 63217			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

Benchmark: Chiseled square on SE corner of Existing Pedestrian Bridge Deck over Buffalo Creek. El. 646.22

Existing Structure: The existing structure is a single span steel structure with R.C. Deck supported on R.C. closed wall abutments. Back to back of abutments of 29'-0". Width of 14'-0". Contractor shall remove existing structure and replace with single span Pedestrian Truss Superstructure on open abutments. Back to back of abutments of 50'-0". Clear width of 14'-0". Existing structure shall remain open throughout construction. Proposed structure is offset from existing.

Salvage: None

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES:

Details on this drawing are not to scale.  
Provide 1" chamfer on all concrete edges unless otherwise specified.  
Reinforcement shall be placed with a minimum of 2" concrete cover unless otherwise specified.  
All details and dimensions shown on this sheet are to be coordinated with the Pedestrian Truss Superstructure manufacturer. See Specifications for Pedestrian Truss Superstructure. These drawings shall be worked with Pedestrian Truss Superstructure drawings provided by the Pedestrian Truss Superstructure Manufacturer. Required modifications will be at no additional cost to the owner. Pedestrian Truss Superstructure shall be a Pratt Truss with a reinforced concrete deck.  
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.  
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.  
Reinforcement bars designated (E) shall be epoxy coated.  
Contractor to supply necessary material and equipment to construct concrete bridge deck. Cost included in Pedestrian Truss Superstructure.  
All structural steel shall be AASHTO M 270 Grade 50W (except expansion joints which shall be AASHTO M 270 Grade 50).  
No field welding is permitted except as specified in the contract documents.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Structural Details
- 3 Boring Logs

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims  
1997 AASHTO Guide Specifications for Design of Pedestrian Bridges

LOADING

85 psf Live Load  
H10 Vehicle Load  
35 psf Wind Load

SCOPE OF WORK

Two new concrete abutments supported on spread footings will be placed to support a prefabricated bridge. The abutments will be spaced 48'-0" face to face of backwall. Pedestrian Truss Superstructure will be installed per Manufacturer's recommendations.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	CU YD	0	43	43
Stone Riprap, Class A4	SQ YD	0	250	250
Filter Fabric	SQ YD	0	250	250
Removal Of Existing Structures	EACH	-	-	1
Structure Excavation	CU YD	0	92	92
Concrete Structures	CU YD	0	26	26
Reinforcement Bars, Epoxy Coated	POUND	0	1600	1600
Geocomposite Wall Drain	SQ YD	0	22	22
Pipe Underdrains For Structures 4"	FOOT	0	117	117
Pedestrian Truss Superstructure	SQ FT	669	0	669

BRIDGE REACTION

All Reactions are Unfactored

LOAD	P (lb)	H (lb)	L (lb)
DEAD	19,900		
UNIFORM LIVE	15,100		
VEHICLE	6,700		
WIND		7,100	4,700
WINDWARD	-7,900		
LEEWARD	2,000		
THERMAL			4,000

"P" - Vertical Load per Shoe  
"H" - Horizontal Load per Abutment  
"L" - Longitudinal Load per Shoe  
+ Downward Load  
- Upward Load

"I certify that to the best of my knowledge, information and belief, this bridge 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 Highway Bridges."



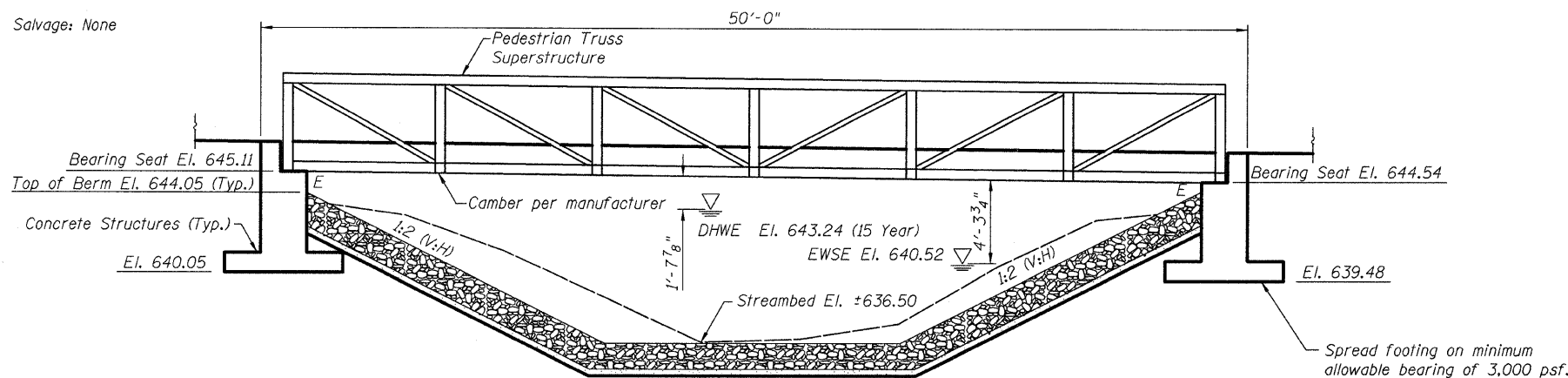
ILLINOIS STRUCTURAL NO. 081-005819 (Expires 11/30/09)

GENERAL PLAN & ELEVATION

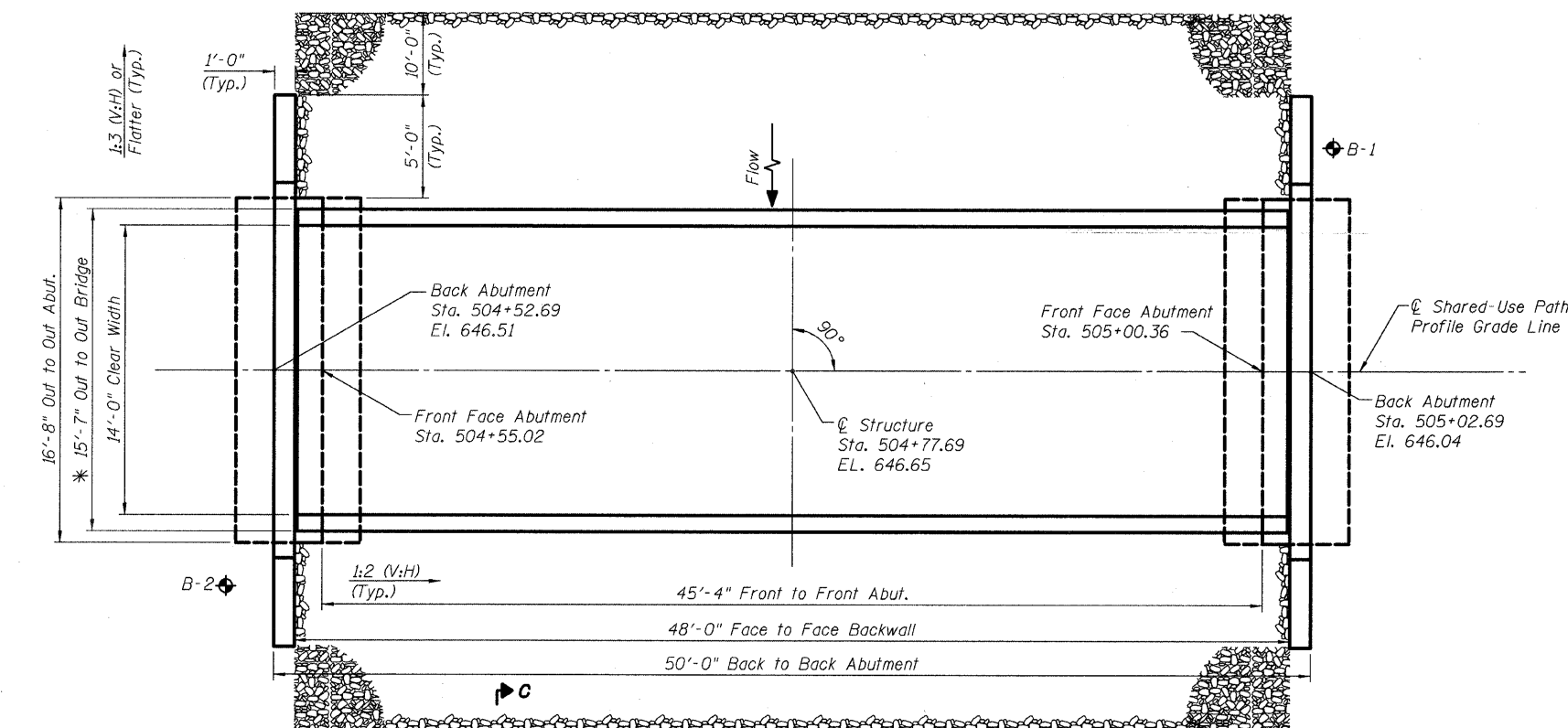
HAWTHORNE SCHOOL  
PEDESTRIAN BRIDGE  
STA. 504+77.69

STRAND ASSOCIATES, INC.

SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1		06-00069-00-BR	COOK	26	16
3 SHEETS		GENERAL PLAN			CONTRACT NO. 63217
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	



ELEVATION



PLAN

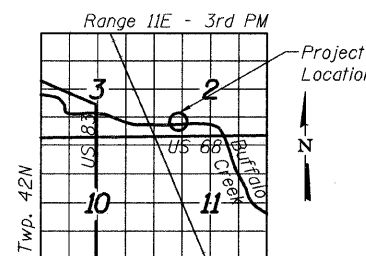
\* Verify with Pedestrian Truss Superstructure Manufacturer.

WATERWAY INFORMATION

Drainage Area = 20 sq mi Low Grade Elev. 642.56 @ Sta. 505+40

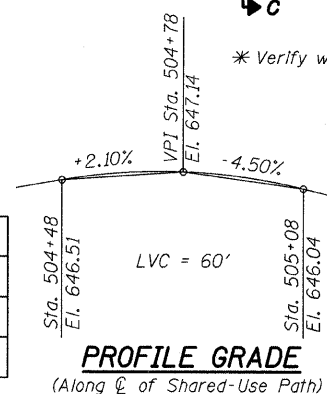
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	15	662	113	130	643.24	0.07	0.09	643.04	643.33
Base	100	1203	159	200	644.83	0.19	0.17	644.66	645.00
Overtopping	6	491	100	104	642.51	0.03	0.05	642.46	642.56
Max. Calc.	500	2003	167	218	646.70	0.01	0.08	646.52	646.78

Scour measures are in place. Scour is not anticipated. Existing structure is located just east of proposed structure.



LOCATION SKETCH

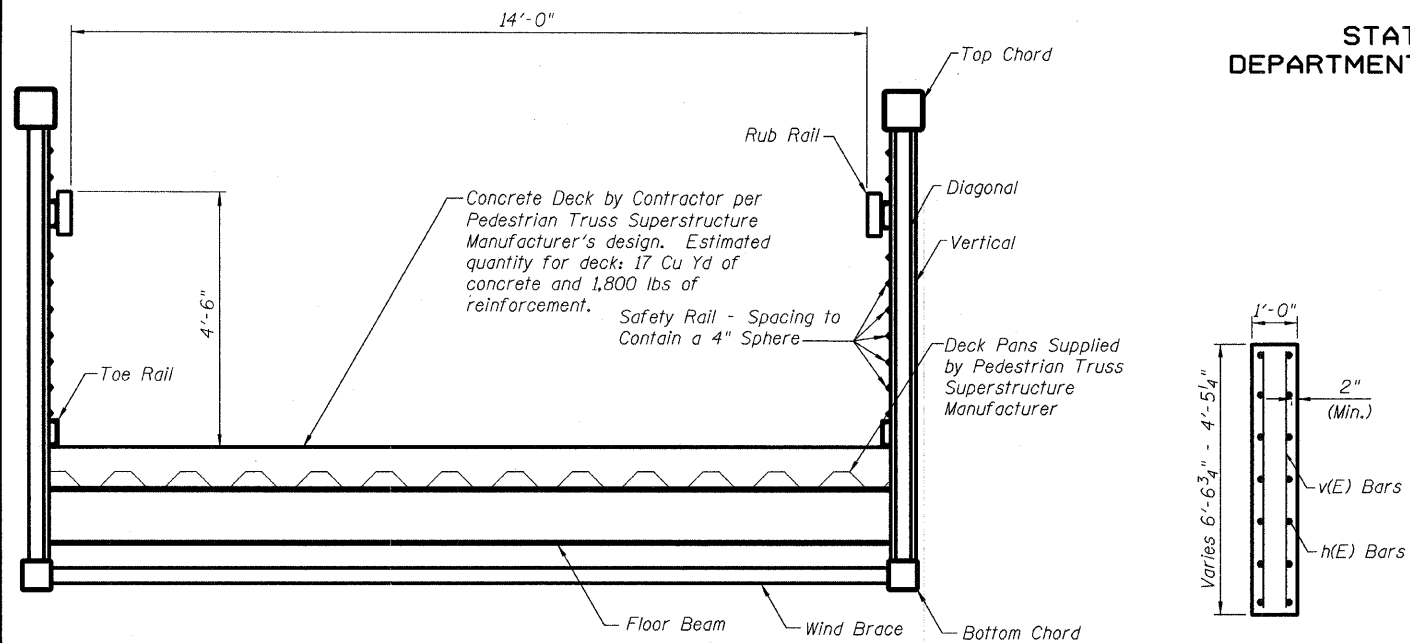
DESIGNED	RRD
CHECKED	JAR
DRAWN	KAS
CHECKED	JAR



PROFILE GRADE

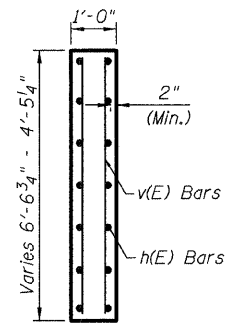
(Along C of Shared-Use Path)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

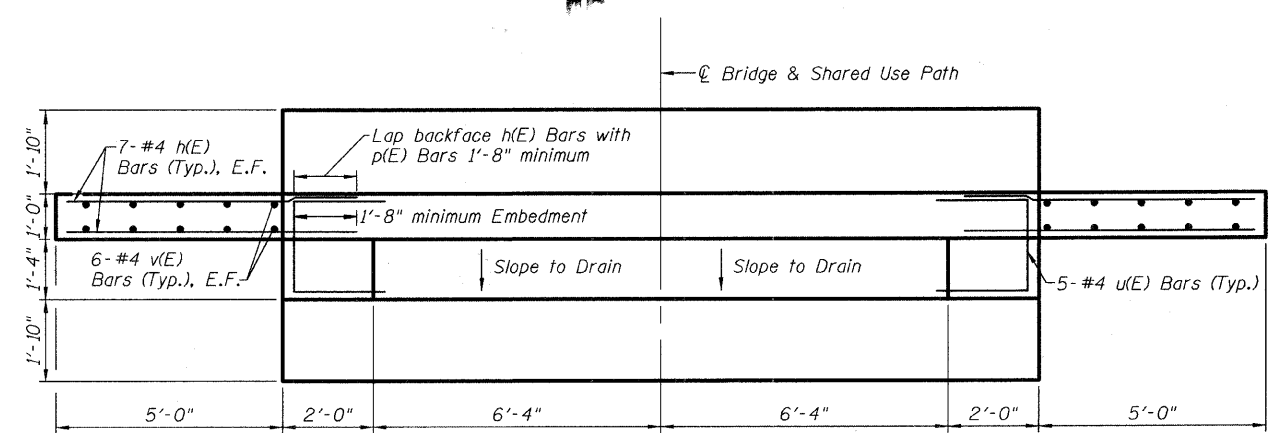


**CROSS SECTION**

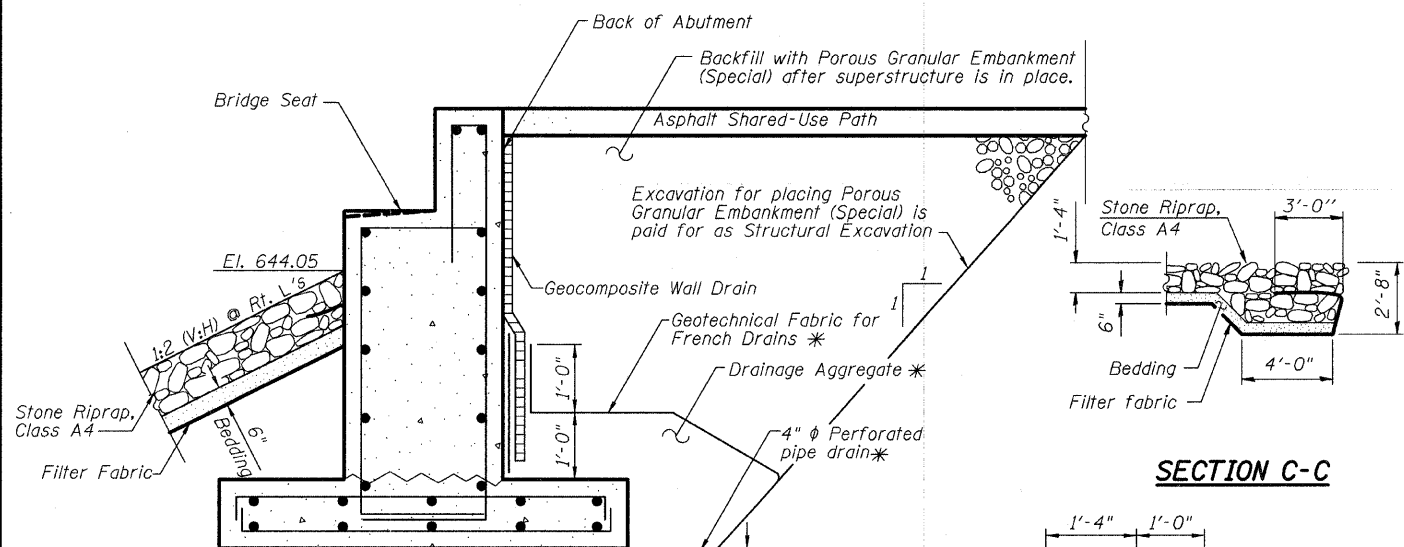
(To be finalized by Pedestrian Truss Superstructure Manufacturer)



**SECTION A-A**



**ABUTMENT PLAN**



**SECTION C-C**

**SECTION THRU ABUTMENT**

(Horiz. Dim. @ Rt. L's)

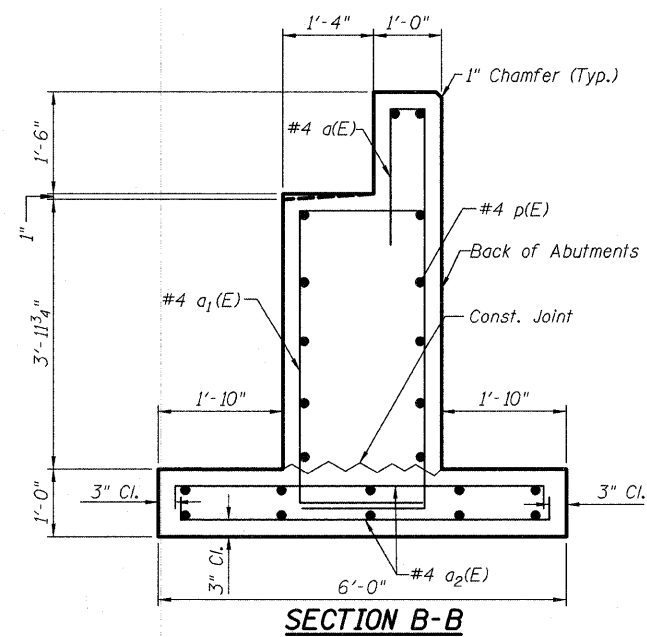
\*Included in the cost of Pipe Underdrains for Structures.

Note:  
All drainage system components shall extend to 2'-0" from the end of abutment except outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into riprap.

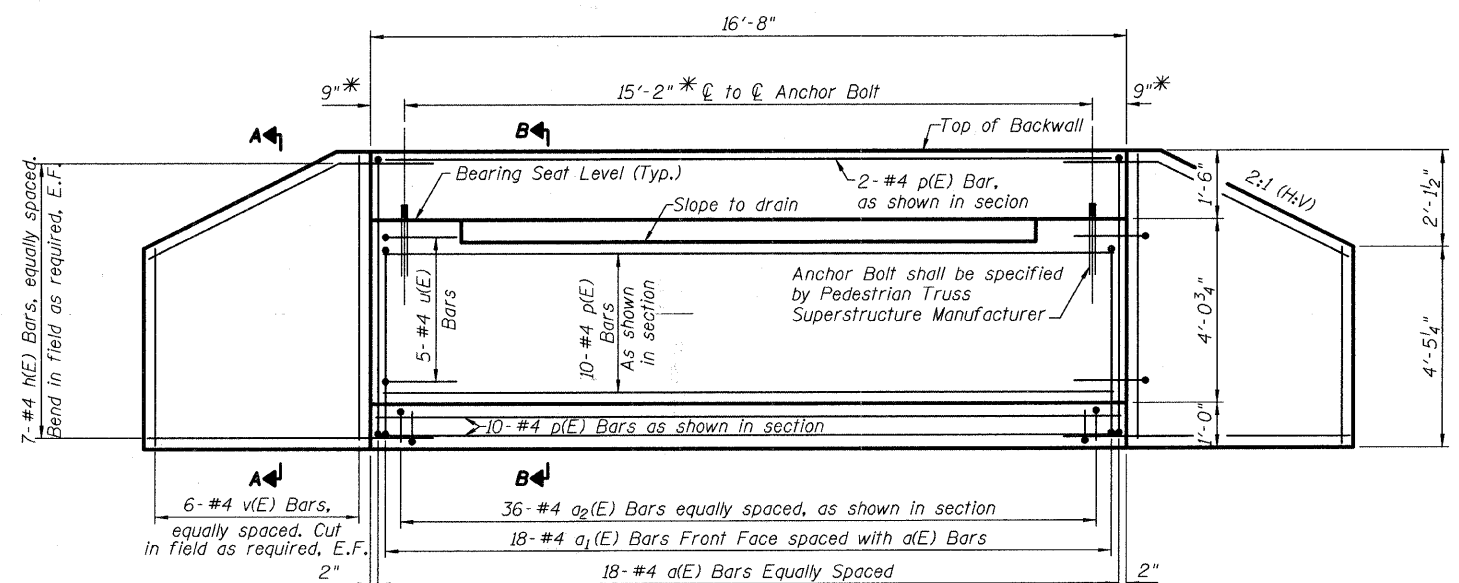
**BILL OF BARS**

Bar	No.	Size	Length	Shape
a(E)	36	#4	11'-7"	[ ]
a1(E)	36	#4	8'-6"	[ ]
a2(E)	72	#4	6'-6"	[ ]
p(E)	24	#4	16'-4"	[ ]
u(E)	20	#4	6'-0"	[ ]
h(E)	56	#4	6'-10"	[ ]
v(E)	48	#4	6'-2"	[ ]

DESIGNED	RRD
CHECKED	JAR
DRAWN	KAS
CHECKED	JAR

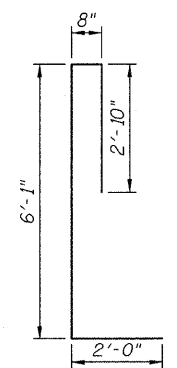


**SECTION B-B**

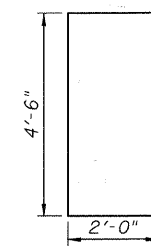


**ABUTMENT ELEVATION**

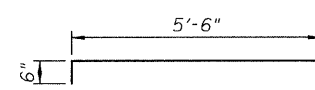
\*Verify with Pedestrian Truss Superstructure Manufacturer before setting Anchor Bolts.



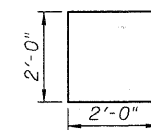
**a(E) BARS**



**a1(E) BARS**



**a2(E) BARS**



**u(E) BARS**

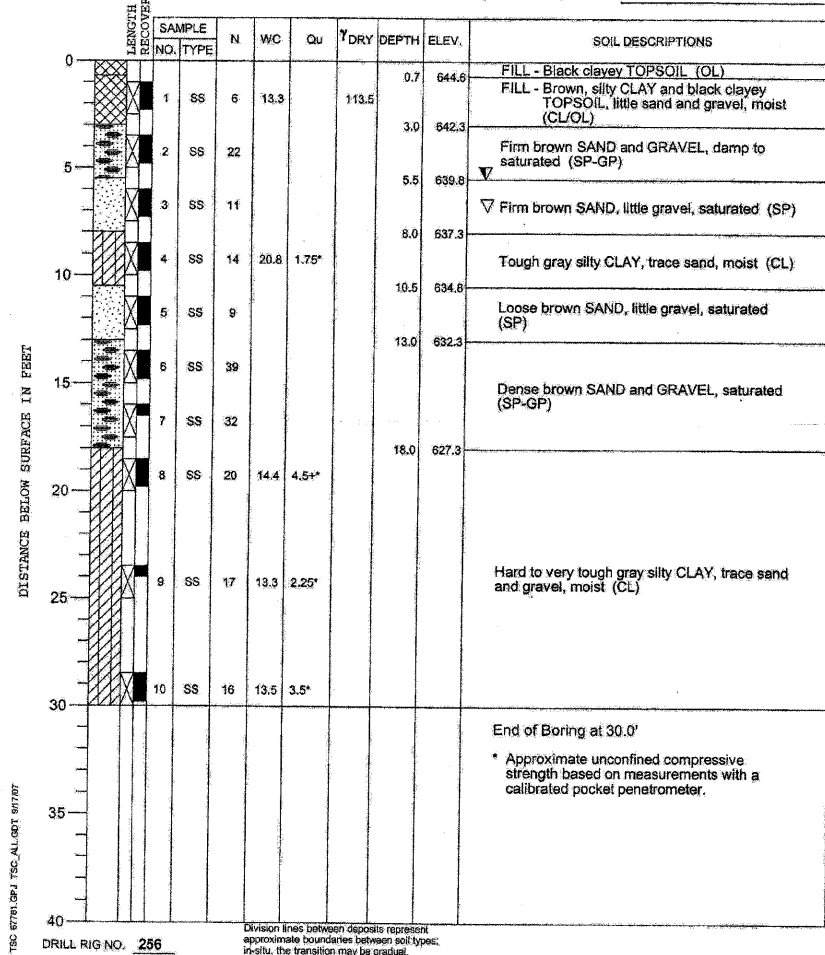
**STRUCTURAL DETAILS**  
**HAWTHORNE SCHOOL**  
**PEDESTRIAN BRIDGE**  
**STA. 504+77.69**

**STRAND ASSOCIATES, INC.**

SHEET NO. 2	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		06-00069-00-BR	COOK	26	17
3 SHEETS	STRUCTURE DETAILS		CONTRACT NO. 63217		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

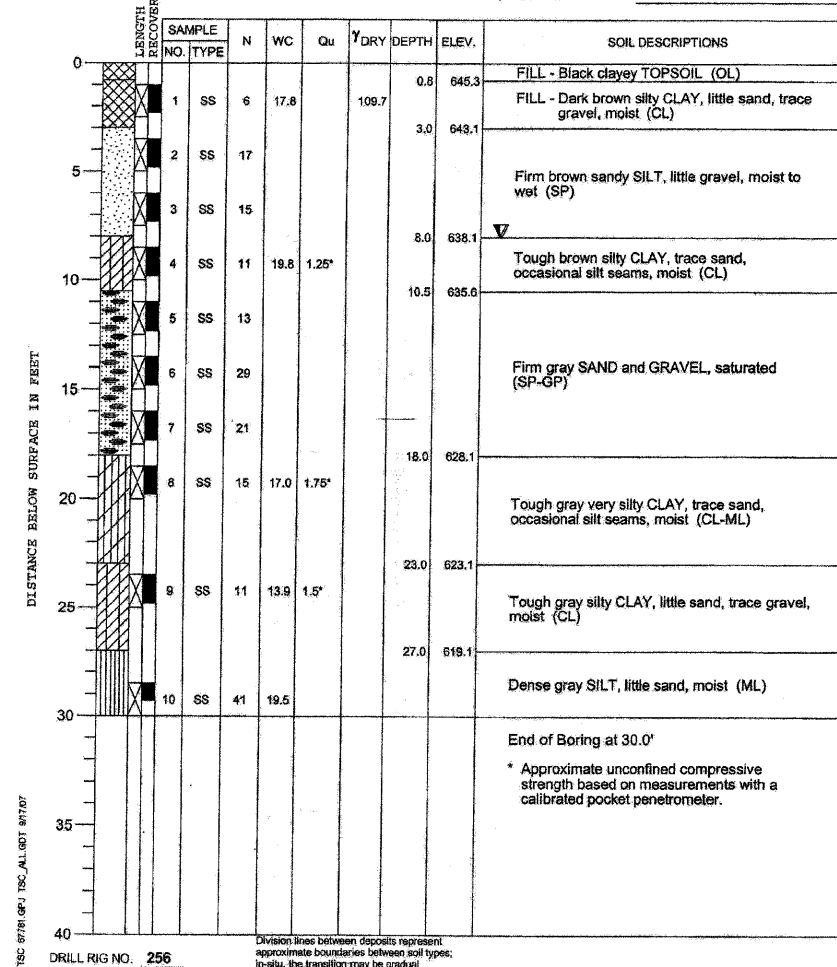
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROJECT Hawthorne School Pedestrian Bridge, Wheeling, Illinois  
 CLIENT Strand Associates, Inc., Joliet, Illinois  
 BORING 1 DATE STARTED 9-11-07 DATE COMPLETED 9-11-07 JOB L-67,781  
 ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE 645.3 WHILE DRILLING 5.5'  
 END OF BORING 615.3 AT END OF BORING 7.0'  
 24 HOURS



DRILL RIG NO. 256

PROJECT Hawthorne School Pedestrian Bridge, Wheeling, Illinois  
 CLIENT Strand Associates, Inc., Joliet, Illinois  
 BORING 2 DATE STARTED 9-11-07 DATE COMPLETED 9-11-07 JOB L-67,781  
 ELEVATIONS WATER LEVEL OBSERVATIONS  
 GROUND SURFACE 646.1 WHILE DRILLING 8.0'  
 END OF BORING 616.1 AT END OF BORING 8.0'  
 24 HOURS

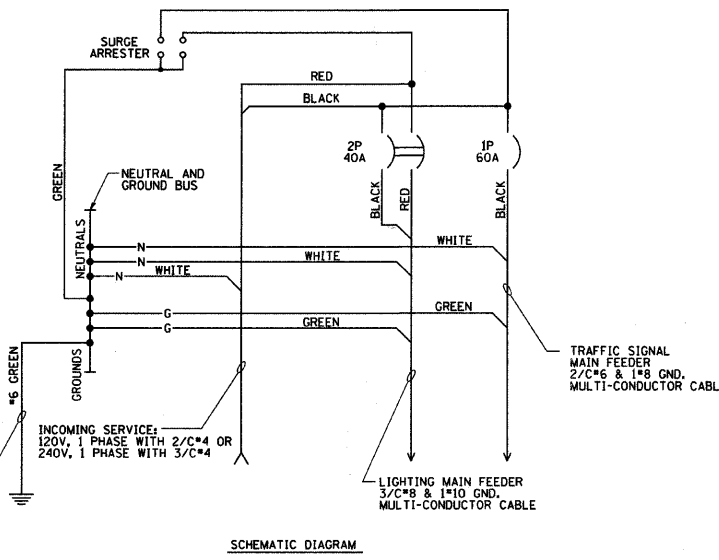
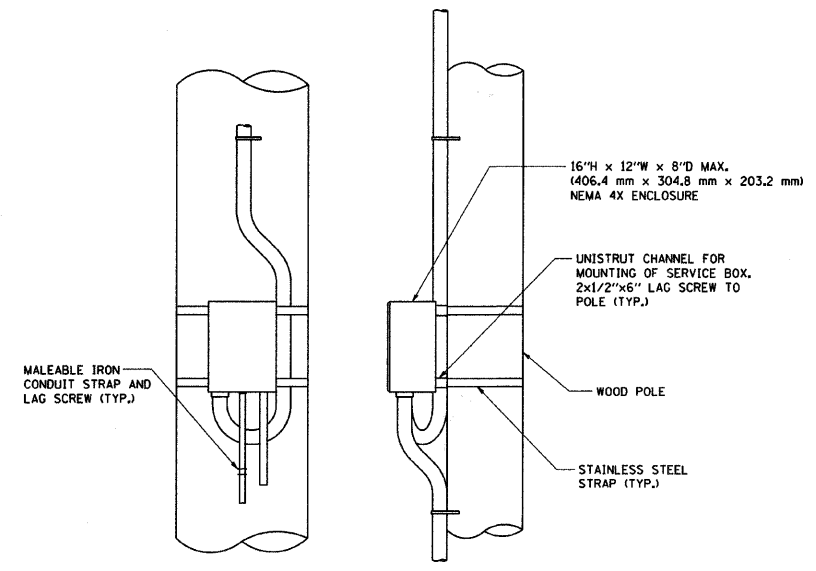
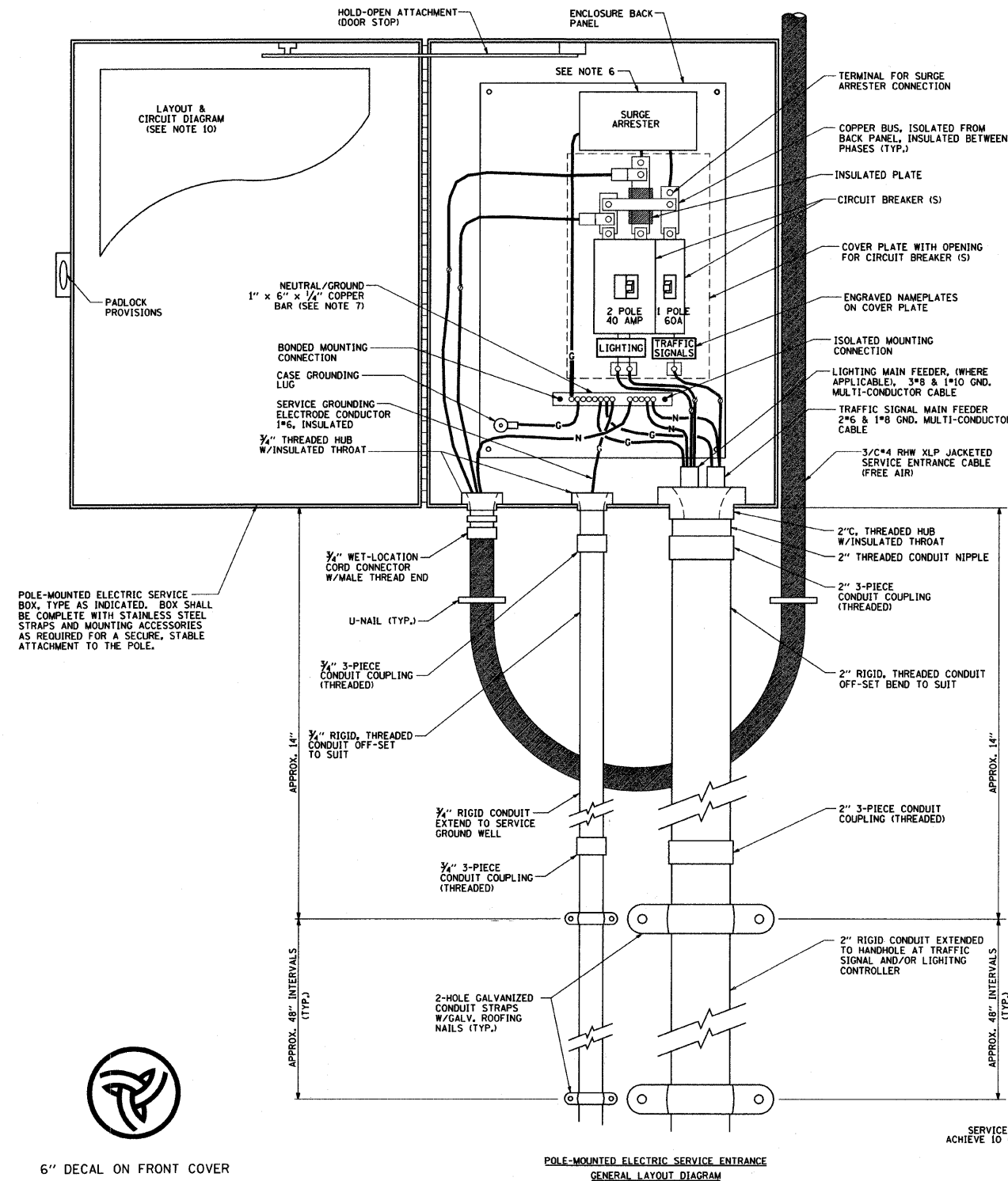


DRILL RIG NO. 256

**BORING LOG**  
**HAWTHORNE SCHOOL**  
**PEDESTRIAN BRIDGE**  
**STA. 504+77.69**  
**STRAND ASSOCIATES, INC.**

DESIGNED **RRD**  
 CHECKED **JAR**  
 DRAWN **KAS**  
 CHECKED **JAR**

SHEET NO. 3	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		06-00069-00-BR	COOK	26	18
3 SHEETS	BORING LOG		CONTRACT NO. 63217		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



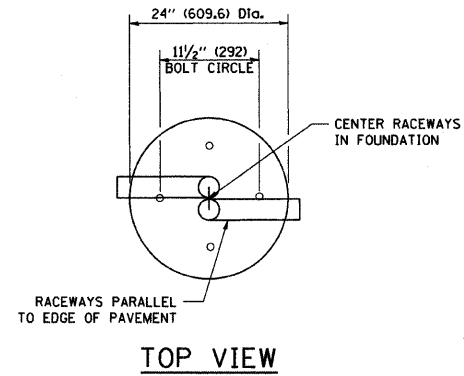
- NOTES:**
- ELECTRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATIBLE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SUITABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
  - THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS THE BASIC CONSTRUCTION OF THE EQUIPMENT. SLIGHT MODIFICATIONS APPLY FOR DIFFERING SERVICES AND APPLICATIONS AS FOLLOWS:
    - TYPE A FULLY EQUIPPED FOR 240/120V, 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
    - TYPE A1 FULLY EQUIPPED FOR 240/120V, 3W SERVICE, BLANK COVER IN LIEU OF LIGHTING MAIN BREAKER
    - TYPE B EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 60A, TRAFFIC SIGNALS MAIN BREAKER
    - TYPE B1 EQUIPPED FOR 120V, SERVICE, COMPLETE WITH 1P, 40A, TRAFFIC SURVEILLANCE MAIN BREAKER
  - THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
  - THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12" W X 16" H X 8" D, WITH A PIANO-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PADLOCK PROVISIONS AND DOOR STOP, HOFFMAN CATALOG NO. A-16H1208556LP/A-16 P12/A-DSTOPK/C-PMK12, OR APPROVED EQUAL.
  - CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
  - THE SURGE PROTECTOR SHALL BE SUITABLE FOR 240/120 VOLT SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE ENERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DEGREES C., WITH LED OPERATING INDICATORS, AND SHALL BE UL LISTED PER UL 1449, CUTLER-HAMMER CM0V230L065XST OR APPROVED EQUAL.
  - BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE BEHIND AN CONNECTIONS, OR THE ASSEMBLY SHALL BE A MANUFACTURED SPECIALTY PANELBOARD, CUTLER-HAMMER PRL2A OR APPROVED EQUAL.
  - THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE CONDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
  - THE WIRING TERMINALS, INCLUDING THE GROUND/NEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
  - A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
  - A 2-COLOR ENGRAVED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAVED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN BREAKER.
  - LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
  - THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID OBSTRUCTIONS AND PUBLIC ACCESS. TYPICAL HEIGHT SHALL BE APPROXIMATELY 10 FEET ABOVE GRADE.

6" DECAL ON FRONT COVER

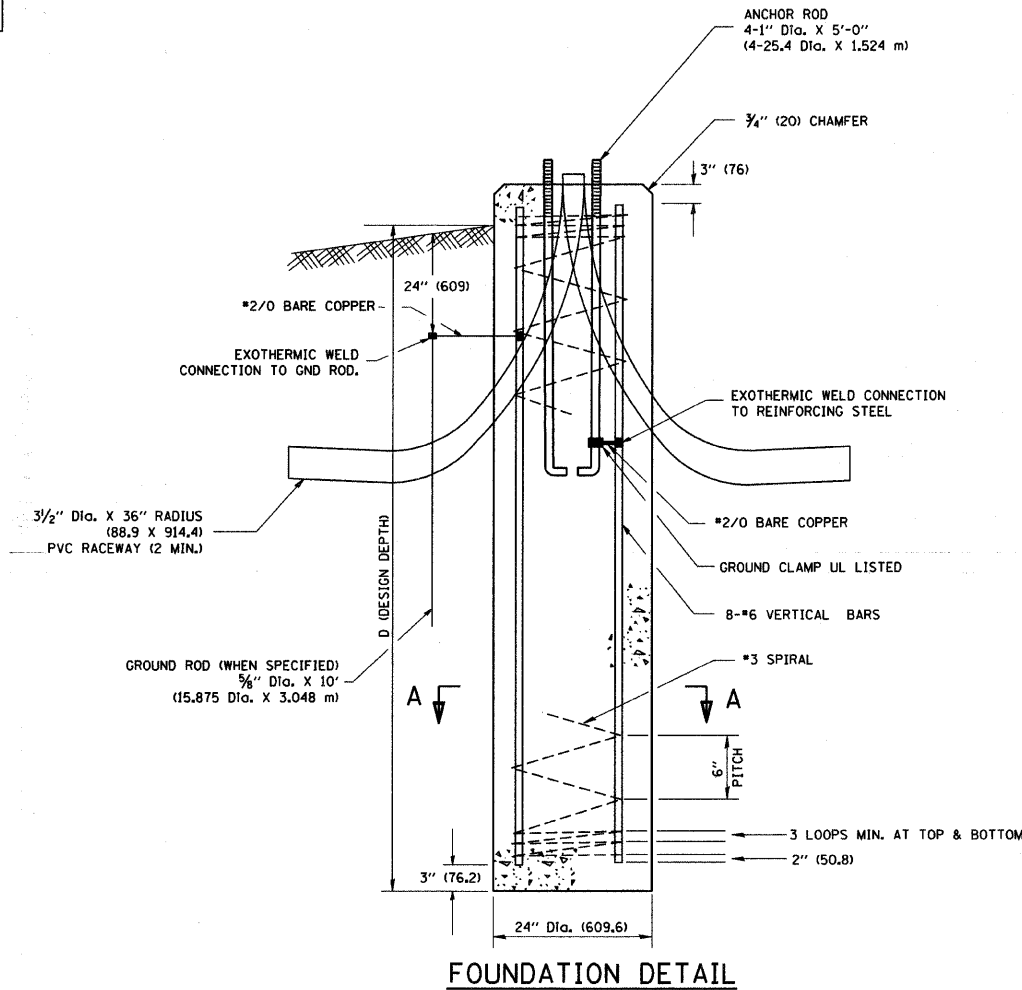
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		DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-230	CONTRACT NO.	26	19
		CHECKED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									

**LIGHT POLE FOUNDATION DEPTH TABLE**  
**30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT**

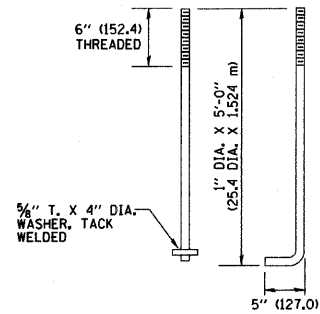
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SO. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SO. FT.	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SO. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND φ = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND φ = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND φ = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



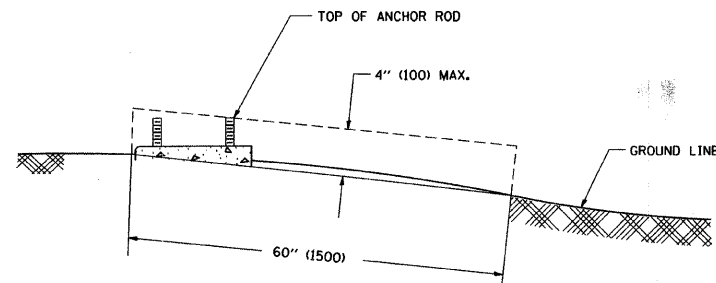
**TOP VIEW**



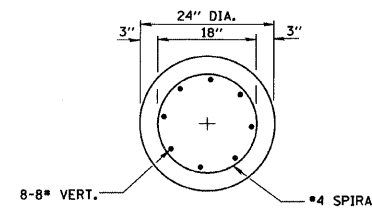
**FOUNDATION DETAIL**



**ANCHOR BOLT DETAIL**



**FOUNDATION EXTENSION DETAIL**



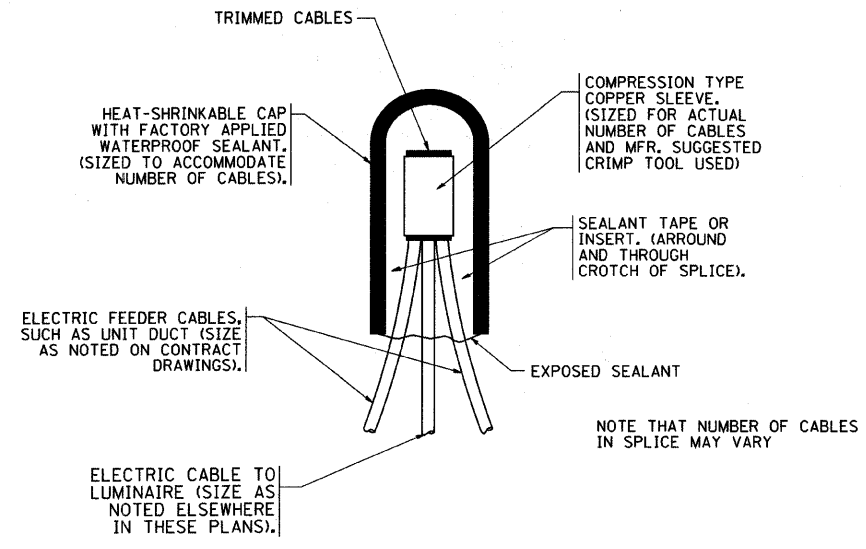
**SECTION A-A**

**NOTES**

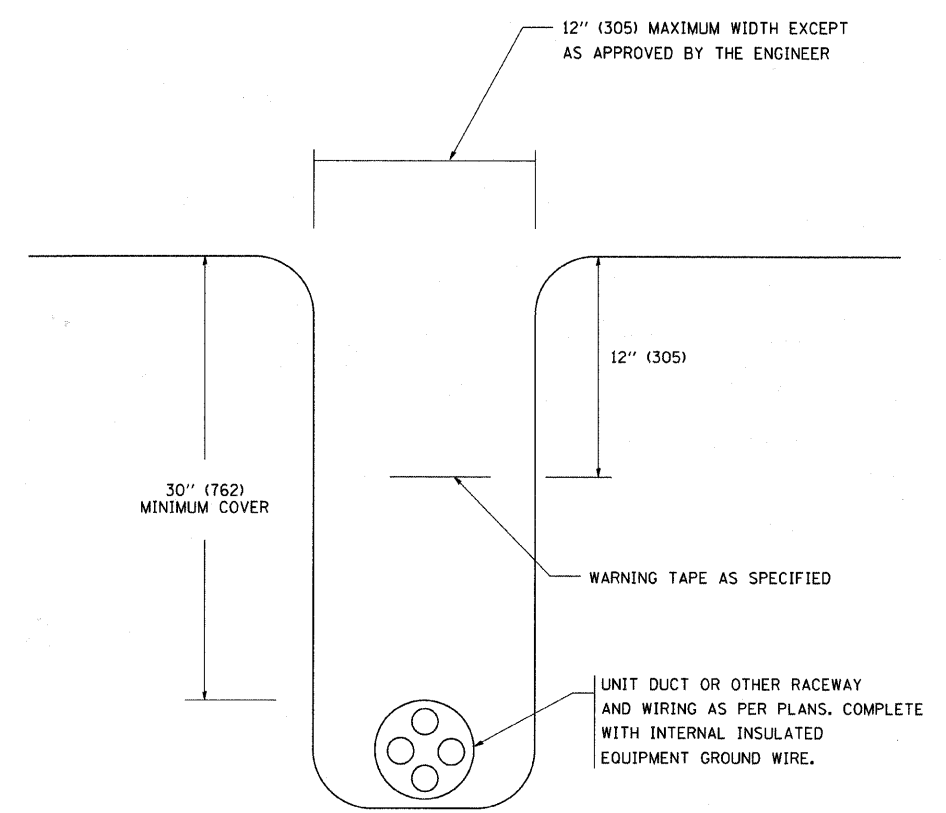
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

FILE NAME = W:\dststd\22x34\ba300.dgn	USER NAME = geglianobt	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LIGHT POLE FOUNDATION</b>			F.A. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		<b>30' (9.144 m) TO 35' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE</b>						26	20
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	<b>BE-300</b>		CONTRACT NO.		
	PLOT DATE = 1/4/2008	DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

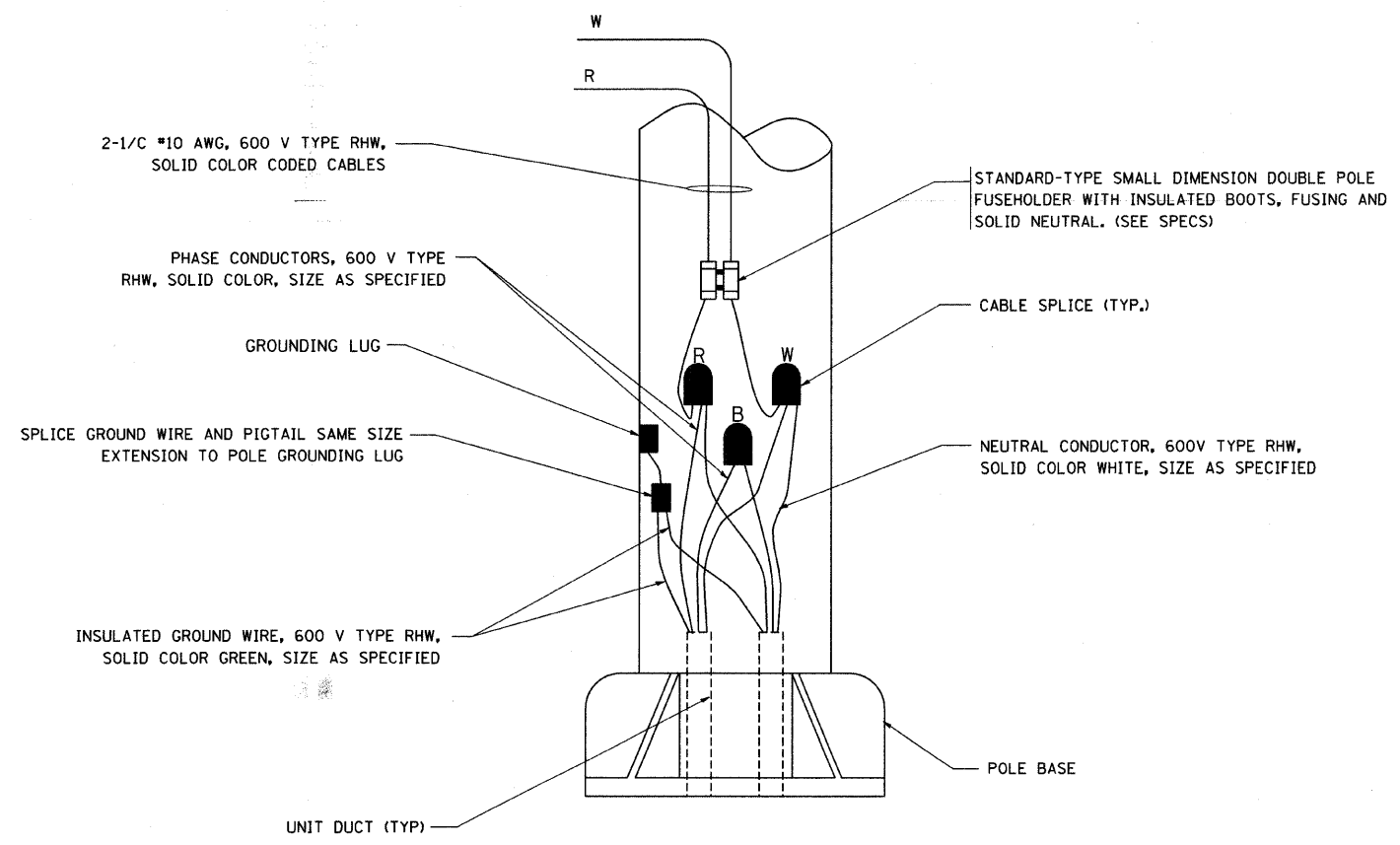




**TYPICAL SPLICE DETAIL**  
N.T.S.



**TYPICAL WIRING IN TRENCH DETAIL**  
N.T.S.

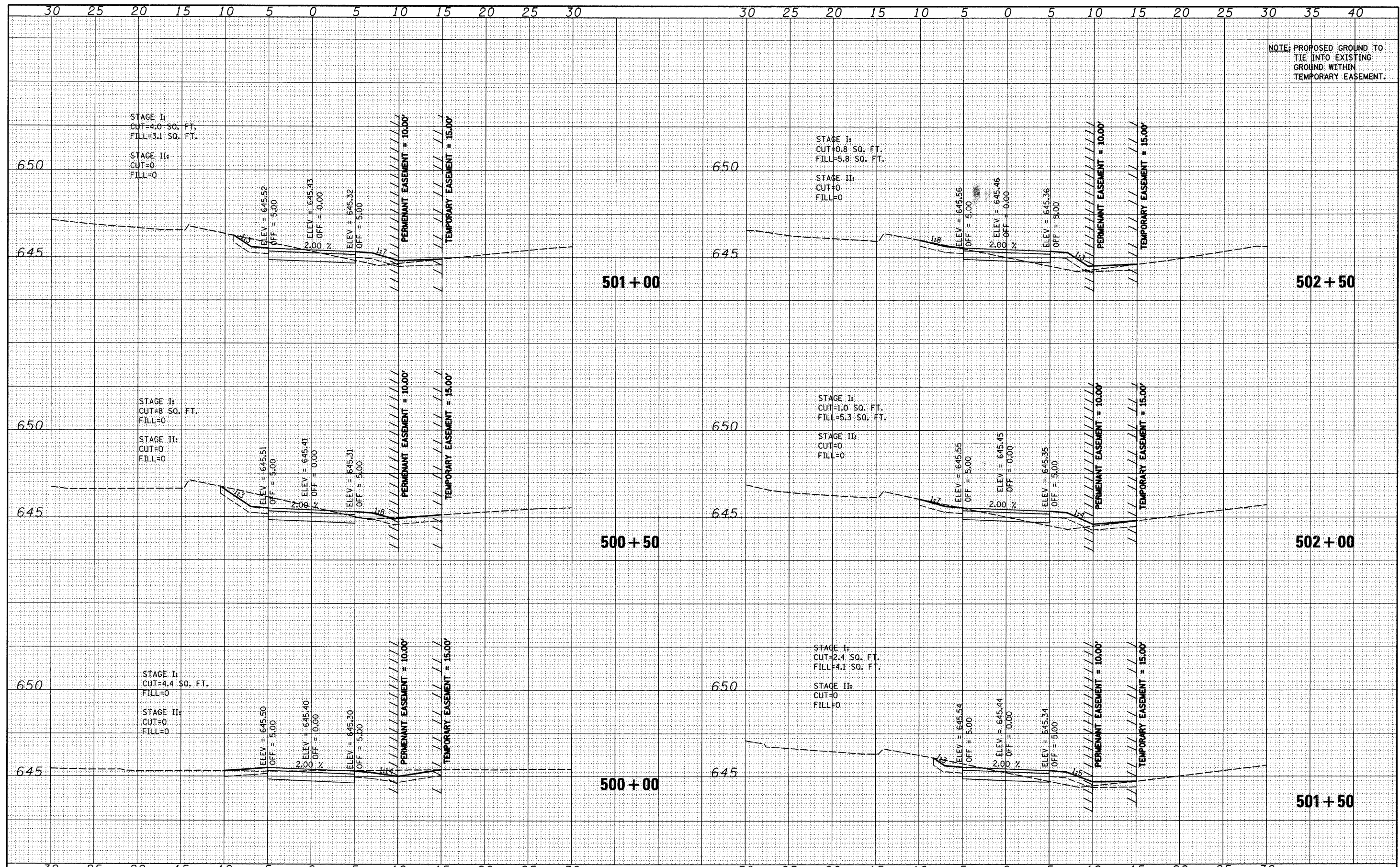


**POLE WIRING DETAIL**  
N.T.S.

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	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED -							26	21
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								BE-702			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT											

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
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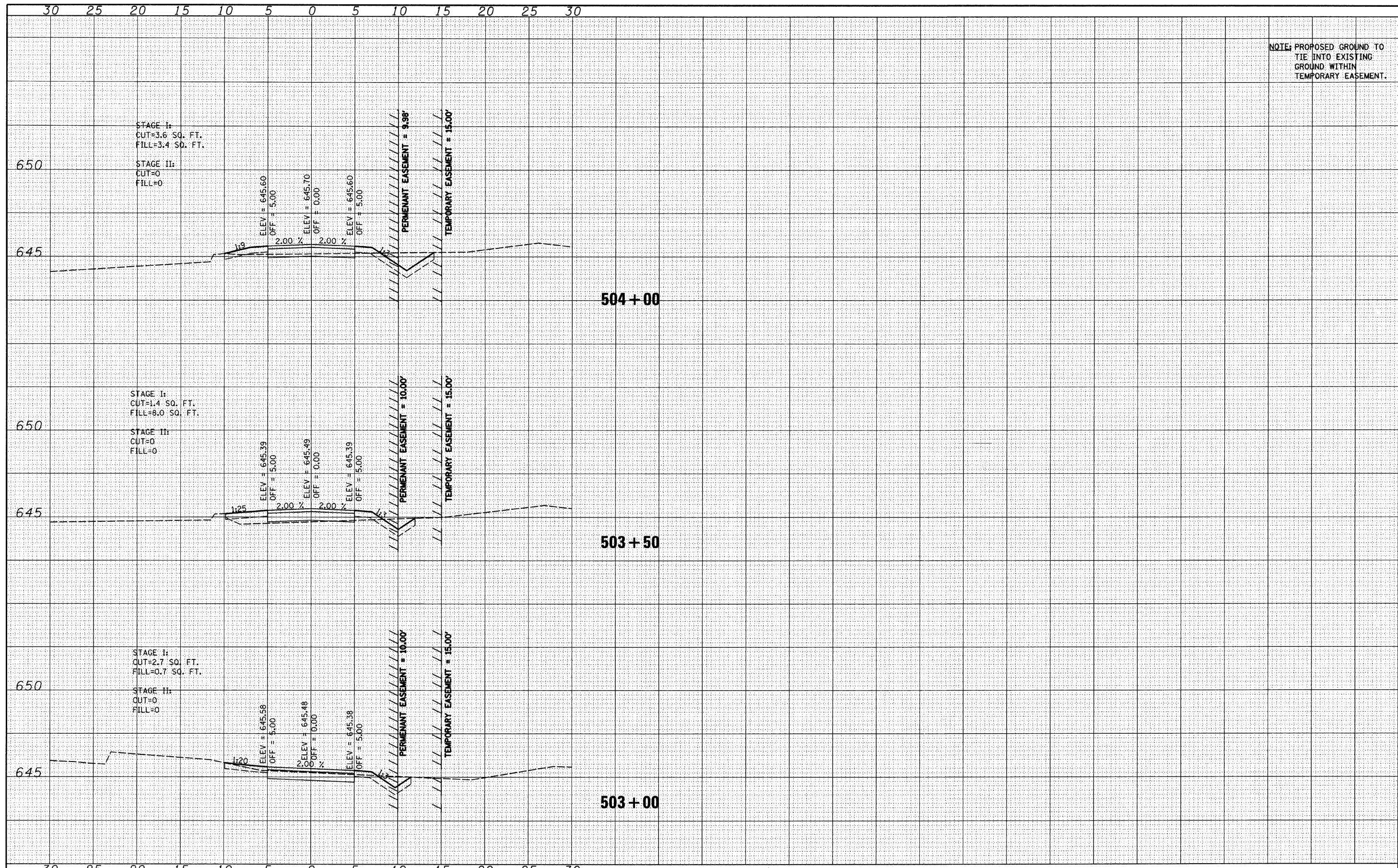


NOTE: PROPOSED GROUND TO TIE INTO EXISTING GROUND WITHIN TEMPORARY EASEMENT.

FILE NAME =	USER NAME = vnessof	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING AND PROPOSED CROSS SECTIONS</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 5.0000' / IN.		DRAWN -	REVISED -			CONTRACT NO. 63217				
PLOT DATE = 5/22/2009		CHECKED -	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
SCALE: SHEET NO. OF SHEETS STA. 500+00 TO STA. 502+00										

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



NOTE: PROPOSED GROUND TO TIE INTO EXISTING GROUND WITHIN TEMPORARY EASEMENT.

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PLOT DATE = 5/22/2009		DRAWN -	REVISED -
		CHECKED -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED CROSS SECTIONS**

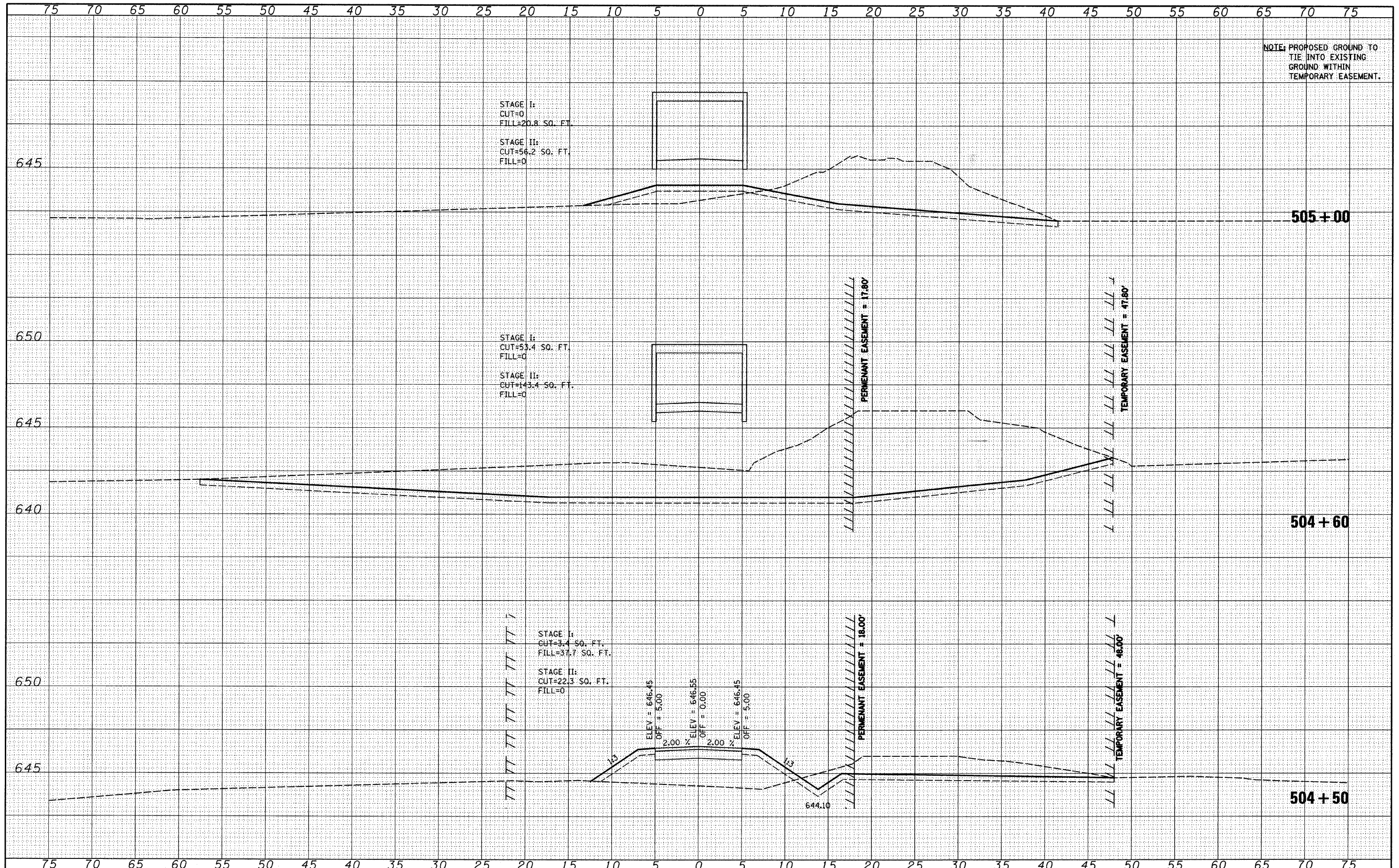
SCALE: SHEET NO. OF SHEETS STA. 503+00 TO STA. 504+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	23
CONTRACT NO. 63217				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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TEMP. AREAS CHECKED	

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ORIGINAL SURVEY	
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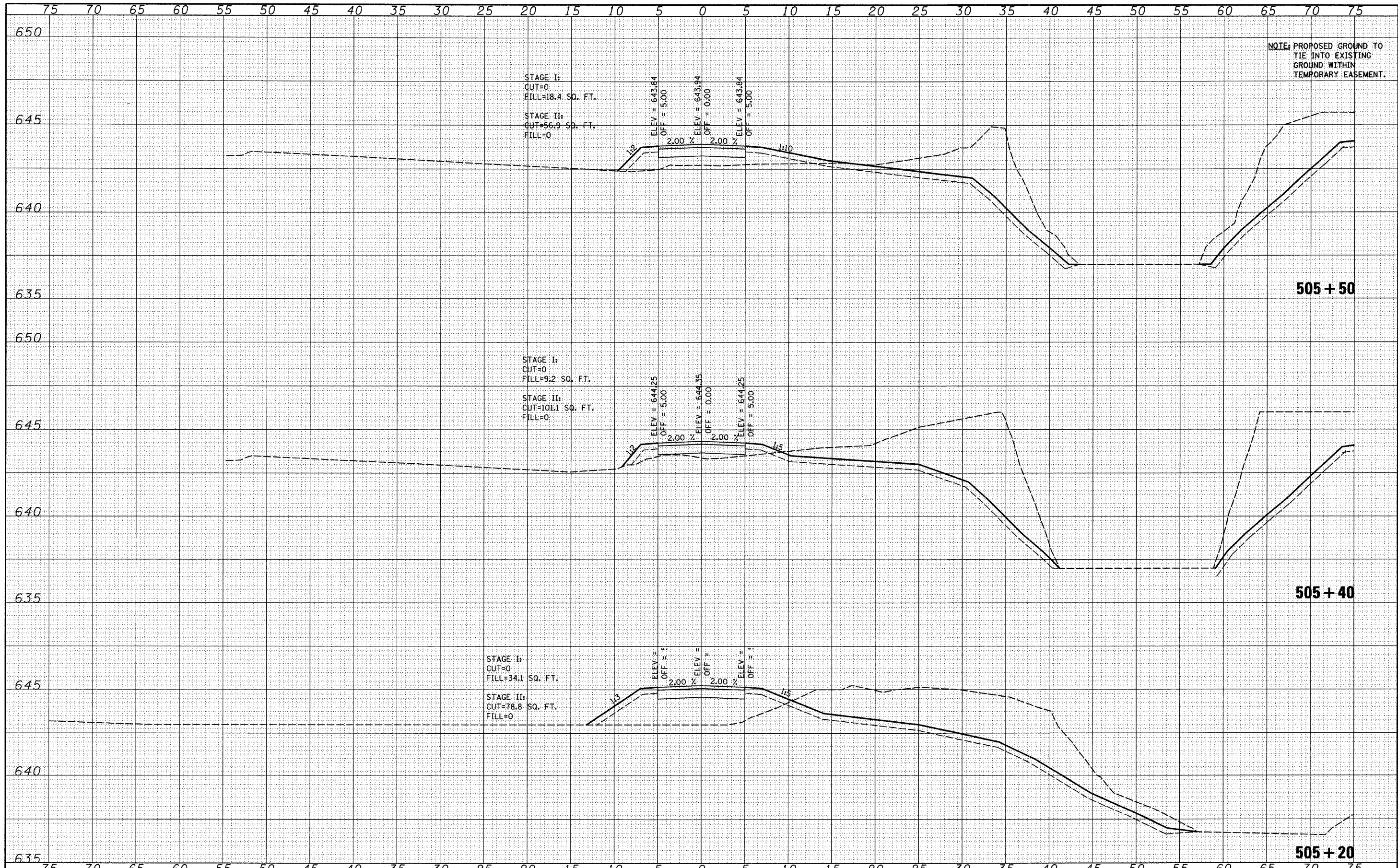


NOTE: PROPOSED GROUND TO TIE INTO EXISTING GROUND WITHIN TEMPORARY EASEMENT.

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PLOT DATE = 5/22/2009		CHECKED -	REVISIED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE:						SHEET NO. OF SHEETS		STA. 504+50 TO STA. 505+00		

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FINAL SURVEY	
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NOTE BOOK	
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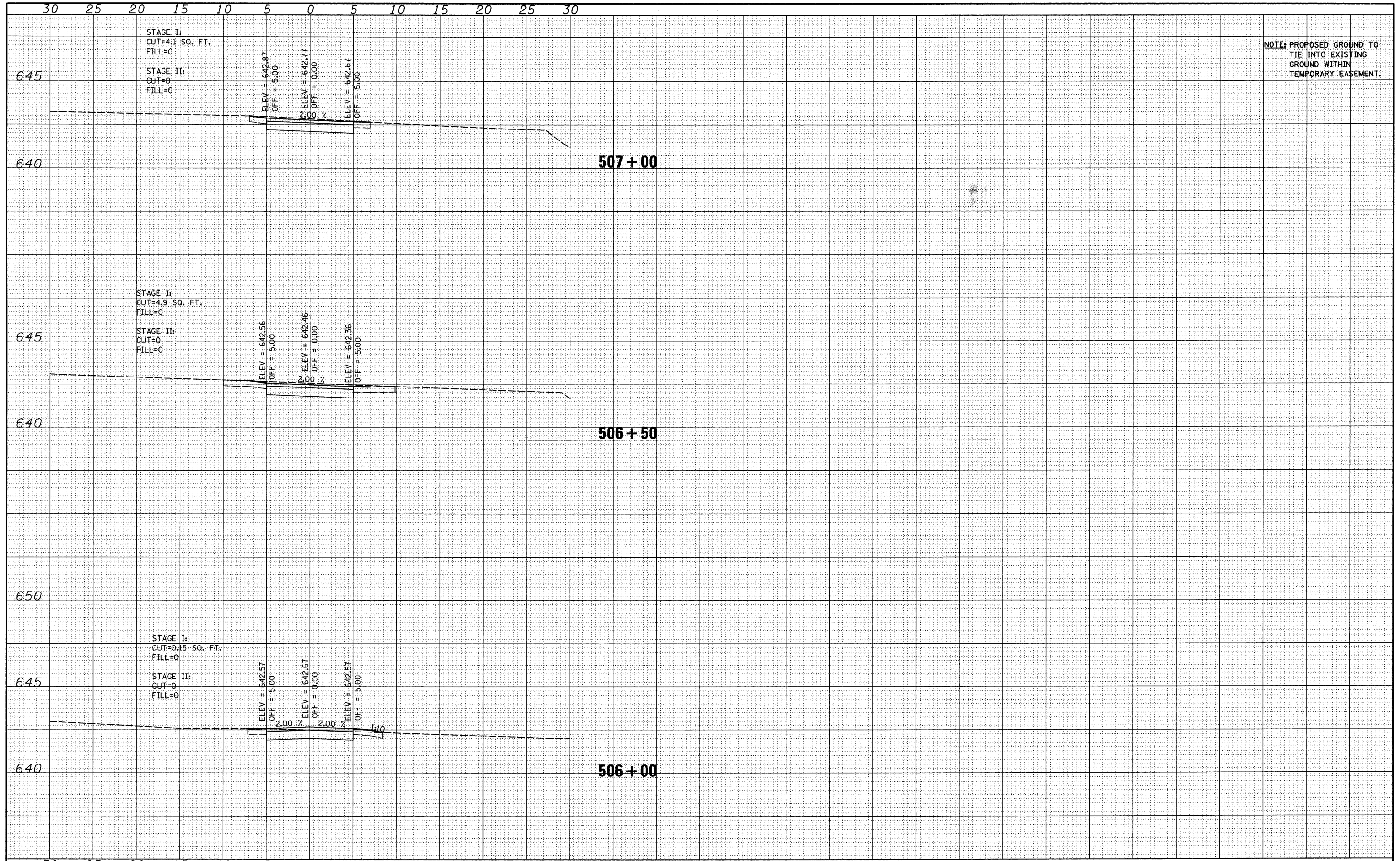
NOTE: PROPOSED GROUND TO TIE INTO EXISTING GROUND WITHIN TEMPORARY EASEMENT.

FILE NAME =	USER NAME = vanessaf	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	EXISTING AND PROPOSED CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 5.0000' / IN.		DRAWN -	REVISED -									
PLOT DATE = 5/22/2009		CHECKED -	REVISED -									
								CONTRACT NO. 63217		ILLINOIS FED. AID PROJECT		



FINAL SURVEY	DATE
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



NOTE: PROPOSED GROUND TO TIE INTO EXISTING GROUND WITHIN TEMPORARY EASEMENT.

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PLOT SCALE = 5.0000' / IN.	PLOT DATE = 5/22/2009	CHECKED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 506+00 TO STA. 507+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00069-00-BR	COOK	26	26
CONTRACT NO. 63217				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				