STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

TRAFFIC DATA

EAST AVENUE = 600 (2030) PINE AVENUE = 600 (2030)

SPEED LIMIT:

EAST & PINE AVENUE = 20 MPH (POSTED) 30 MPH (DESIGN) EAST AVENUE & PINE AVENUE FROM

FOREST AVE. (F.A.U. 1472) TO LONGCOMMON RD. (F.A.U. 3569)

SECTION: 06-00073-00-LS

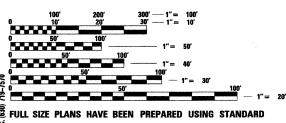
ROADWAY RESURFACING AND ENHANCEMENT

PROJECT: TE-00D1(705)

VILLAGE OF RIVERSIDE COOK COUNTY

C-91-030-07



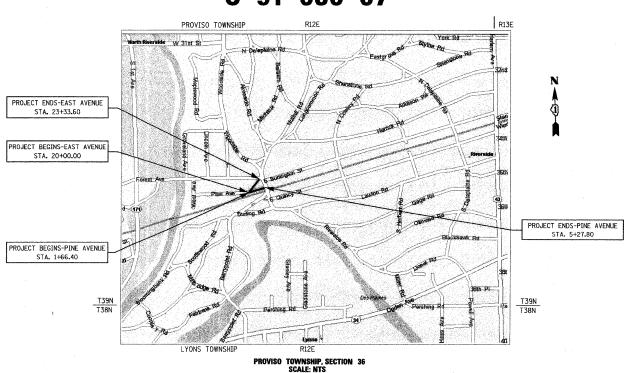


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

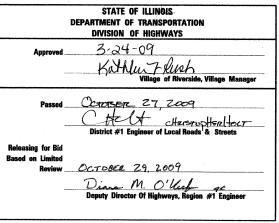
CONTRACT NO. 63133
DESIGN DESIGNATION: LOCAL ROAD



SCALE: NTS

GROSS & NET LENGTH OF PROJECT: 695.00 FT. (0.13 MILES)





PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS



COUNTY: COOK SECTION: 06-00073-00-LS F.A.U. ROUTE: 1472 & 3569

INDEX OF DRAWINGS

2	INDEX OF	SHEETS,	LIST OF	STATE
	STANDARDS	S AND G	ENERAL	NOTES

SUMMARY OF QUANTITIES

TITLE SHEET

- EXISTING TYPICAL SECTIONS
- PROPOSED TYPICAL SECTIONS
- SCHEDULE OF QUANTITIES
- ALIGNMENT AND BENCH MARKS
- SITE PREPARATION PLAN
- GEOMETRIC PLAN
- UTILITY AND GRADING PLAN
- PAVEMENT MARKINGS & SIGNAGE PLAN
- 12 CONSTRUCTION DETAILS
- 13-16 DISTRICT DETAILS
- 17 WATER TOWER CAMPUS CROSS SECTIONS
- LANDSCAPE SITE PLAN
- LANDSCAPE PLANTER DETAILS
- 20 LANDSCAPE DETAILS
- 21 ARCHITECTURAL LIGHTING LAYOUT
- ARCHITECTURAL RAMP DRAWINGS
- ELECTRICAL POWER AND LIGHTING PLANS
- ELECTRICAL NOTES, RISER AND SCHEDULES

COMMITMENTS: NONE

72000101	SIGN PANEL MOUNTING DETAILS
72000602	SIGN PANEL ERECTION DETAILS
720011-01	METAL POST FOR SIGNS, MARKINGS, AND DELINEATORS
814001-02	HANDHOLES

LIST OF DISTRICT ONE DETAILS

LIST OF STATE STANDARDS

COMBINATION CONCRETE CURB AND GUTTER

URBAN LANE CLOSURE 2L, 2W UNDIVIDED

LANE CLOSURE MULTILANE 1W OR 2W

CROSSWALK OR SIDEWALK CLOSURE

LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

STANDARD SYMBOLS, ABBREVIATIONS

424001-05 CURB RAMPS FOR SIDEWALKS

FRAME AND LIDS TYPE 1

TRAFFIC CONTROL DEVICES

CONCRETE CURB TYPE B AND

442201-03 CLASS C AND D PATCHES

000001-05

604001-03

606001-04

701301-03

701501-05

701801-04

701901-01

TC-16

BD-32	BUIL JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

1.	THE MWRD	LOCAL SE	WER PERM	IT SECTION	FIELD OFFIC	E MUST BE	NOTIFIED	ΑT
	LEAST TWO	(2) WORK	ING DAYS	PRIOR TO	THE COMMEN	CEMENT OF	WORK	
	(CALL 708-	-588-4055	5.)					

MWRD NOTES

- 2. ELEVATION DATUM IS U.S.G.S.
- 3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- 5. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO:

Pipe Material Spec. Vitrified Clay Pipe VCP C-700	Joint Spec.	Pipe Material Spec. PVC Gravity Sewer Pipe 6"-15" dig. SDR 26	Joint Spec.
VCP (No-Bell) C-700 Joint Collar	C-425 D-1784	D-3034	D-3212 or D-2855
Concrete Pipe C-14 RCP C-76 ACP C-428	C-443 C-443 D-1869	18"—27" dia. F/dy=46 F—679	D-3212 or D-2855
ABS Sewer Pipe Solid Wall 6" dia. SDR 23.5 ABS D-2751	D-2751	CISP A-74 DIP A-21.51	C-564 A-21.11
ABS Composite/Truss Pipe 8"-15" dia. ABS D-2680	D-2680		

6. ALL SANITARY SEWER CONSTRUCTION, (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES.

- MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC
- "BAND-SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
 - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 - WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING A "BAND-SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION: OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18 INCH VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CAN NOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

RTE. SECTION		COUNTY	SHEETS	SHEET NO.		
1472&06-00073-00 3569	D-LS	COOK	24	2		
STA.	TO	STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
CONTRACT NO 63	133	······				

GENERAL NOTES

- 1. ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING
- 2. THE CONTRACTOR SHALL GIVE THE MUNICIPALITY THREE (3) WORKING DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORK. (JAMES J. BENES AND ASSOCIATES, INC: (630) 719-7570)
- 3. ALL ELEVATIONS ARE ON U.S.G.S. DATUM.
- 4. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS
- 5. NEITHER THE ENGINEER, NOR THE OWNER, SHALL ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS. ADDITIONALLY, NEITHER THE ENGINEER, NOR THE OWNER, SHALL ADVISE ON, OR ISSUE DIRECTIONS CONCERNING, ASPECTS OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND/OR PROGRAMS IN CONNECTION WITH THE WORK
- 6. THE LOCATIONS OF PUBLIC OR 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 CONSTRUCTION TO PROTECT ANY UTILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGES TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE MADE BY THE CONTRACTOR TO THE IRRIGATION SYSTEMS AND IT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. THE CONTRACTOR WILL DETERMINE THE LOCATIONS OF DAMAGE AND EXTENT OF DAMAGE. ALL LOCATIONS OF REPAIR WORK AND EXTENT OF REPAIR SHALL BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING THE WORK. THE SPRINKLER LINES SHALL BE PRESSURE TESTED. ANY PRESSURE LEAKS SHALL BE IDENTIFIED AND REPAIRS MADE PRIOR TO RETESTING THE SYSTEM FOR APPROVAL. ALL MATERIAL, LABOR AND EQUIPMENT USED TO LOCATE, REPAIR AND TEST THE DAMAGED IRRIGATION SYSTEMS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT
- THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA FREE OF DEBRIS AND/OR OBJECTIONABLE MATERIALS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE SITE DAILY FOR DEBRIS ON THE ROADWAY SURFACE. THE RIGHT-OF-WAY SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING 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.
- 10. THE RELOCATION OF SIGNS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- 11. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, SEWERS AND WATER UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
- 12. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES.
- 13. THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS FOR EACH TYPE I OR TYPE II BARRICADE USED, ONE WEIGHTED SAND BAG ACROSS EACH
- 14. SAW CUTTING OF PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM
- 15. STATIONING FOR ALL DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE DRAINAGE STRUCTURE. OFFSETS FOR CURB LINE INLETS AND CATCH BASINS ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS FOR ALL OTHER DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE STRUCTURE. THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT ALL CURB LINE DRAINAGE STRUCTURES ARE PROPERELY ALIGNED WITH THE PROPOSED CURB AND GUTTER.
- 16. ALL STRUCTURE (MANHOLE, CATCH BASIN AND INLET) CONNECTIONS SHALL MEET THE REQUIREMENTS FOR FOR FLEXIBLE WATER TIGHT CONNECTIONS PER ASTM C923.
- 17. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1. 2007: THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2010: THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD), "FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY 1996 FIFTH EDITION, THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION				
NAME	DATE		5 1472 & 3569			
			OF RIVERSIDE			
		RAILWAY/WATER TOWER CA	MPUS RESTORATION PROJECT			
		INDEX OF	DRAWINGS.			
			NOTES AND			
		IDOT STANDA	ARD DRAWINGS			
		SCALE: NTS	DRAWN BY SMP			
			DRAWN DI SMF			
		DATE: 12/5/08	CHECKED BY BDH			

F.A.U. RTE.	SECTION			COUNT	Υ	TOTAL SHEETS	SHEE NO.
1472& 3569	06-00073-0	0-LS		COO	K	24	3
STA.			то	STA.			
FED. RO	DAD DIST. NO.	ILLIN	OIS	FED.	AID	PROJECT	
CONTI	RACT NO. 63	3133		····			

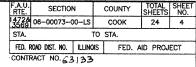
SUMMARY OF QUANTITIES							
				ROADWAY	LANDSCAPE IMPROVEMENTS		
			TOTAL	100% VILLAGE	80% FED 20% VILLAGE		
CODE NO.	ITEM	UNIT	QUANTITY	100% VILLAGE	Y003		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CUYD	522		522		
20400800	FURNISHED EXCAVATION	CUYD	40		40		
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CUYD	77	77			
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	231		231		
25200700	SODDING, SPECIAL	SQ YD	1,200		1,200		
25200200	SUPPLEMENTAL WATERING	UNIT	26		26		
40201000	AGGREGATE FOR TEMPORARY ACCESS	TONS	100		100		
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TONS	2	2			
40600300	AGGREGATE (PRIME COAT)	TONS	10	10			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TONS	4	4			
40600625	LEVELING BINDER (MACHINE METHOD), N50	TONS	105	105			
40600895	CONSTRUCTING TEST STRIP	EACH	1	1			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL -BUTT JOINT	SQ YD	47	47			
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TONS	350	350			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQFT	1,612		1,612		
42400800	DETECTABLE WARNINGS	SQFT	80		80		
44000100	PAVEMENT REMOVAL	SQ YD	292		292		
44000159	HOT-MIX ASHALT SURFACE REMOVAL, 2 1/2"	SQ YD	2,263	2,263			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	788		788		
44000600	SIDEWALK REMOVAL	SQFT	3,921		3,921		
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	8	8			
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	24	24			
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	39	39			
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	45	45			
50300300	PROTECTIVE COAT	SQ YD	845		845		
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	1		1		
60250400	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	1		1		
60255500	MANHOLES TO BE ADJUSTED	EACH	11		1		
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	8	6	2		
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	11	1			
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1		1		
60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3		3		
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1		1		
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	555		555		
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	30		30		
67100100	MOBILIZATION	LSUM	1		1		

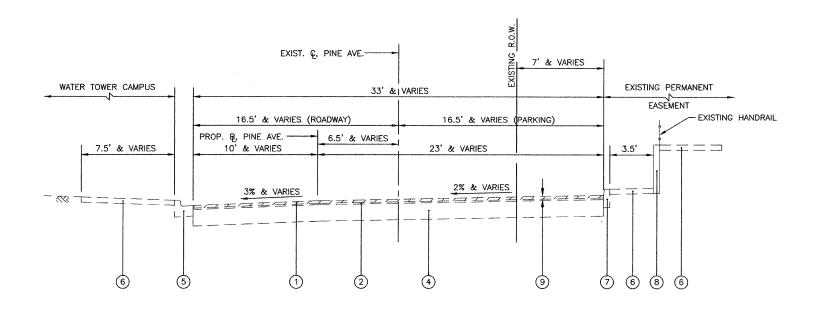
	SUMMARY OF QUANTITIES		TOTAL	ROADWAY	LANDSCAPE IMPROVEMENTS 80% FED 20% VILLAGE
CODE NO.	ITEM	UNIT	QUANTITY	1000	Y003
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1		1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	500	500	
72000100	SIGN PANEL-TYPE 1	SQFT	2		2
72900200	METAL POST - TYPE B	FOOT	14		14
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQFT	77.4	77.4	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	978	978	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	272		272
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	155	155	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	181		181
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	35	35	
81400100	HANDHOLE	EACH	1		1
81400115	HANDHOLE TO BE ADJUSTED	EACH	1		1
89502380	REMOVE EXISTING HANDHOLE	EACH	1		1
B2001167	TREE, CERCIS CANADENSIS (EASTERN REDBUD) 8" HEIGHT, BALLED AND BURLAPPED	EACH	3		3
C2C019G5	SHRUB, ARONIA MELANOCARPA 'IROQUOIS BEAUTY (IROQUIS BEAUTY BLACK CHOKEBERRY), 24-INCH HEIGHT, 5-GALLON CONTAINER	EACH	25		25
	SHRUB, ROSA 'RADCON' (RADCON PINK KNOCK-OUT ROSE), 24-INCH HEIGHT, 5-GALLON CONTAINER	EACH	27		27
K1003680	MULCH	SQ YD	345		345
X0301407	PERENNIAL PLANTS, GALLON POT	UNIT	9		9
X0301895	PERENNIAL PLANTS, QUART POT	UNIT	9		9
XX001621	BRICK PAVER REMOVAL	SQFT	30		30
XX006561	PORTLAND CEMENT CONCRETE SIDEWALK 5", SPECIAL (SWANEE MIX)	SQFT	4,845		4,845
XX006668	HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER	EACH	1		1
A2005193Z	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 4" CALIPER, BALLED AND BURLAPPED	EACH	3		3
XX007973	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-3.12	FOOT	20		20
MH20470	CLASS D PATCHES, TYPE I, 2 INCH	SQYD	8	8	
X4420472	CLASS D PATCHES, TYPE II, 2 INCH	SQ YD	24	24	
	CLASS D PATCHES, TYPE III, 2 INCH	SQ YD	39	39	
X44264716	CLASS D PATCHES, TYPE IV, 2 INCH	SQ YD	45	45	
XX007978	ARCHITECTURAL LIGHTING SYSTEM	EACH	1		1
XX007979	ORNAMENTAL METAL RAILING SYSTEM	FOOT	32		32
XX007980	PLANTING SOIL, FURNISH AND PLACE, 24"	SQYD	240		240
	CONSTRUCTION LAYOUT	L SUM	1		1
	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1		1

LEGEND

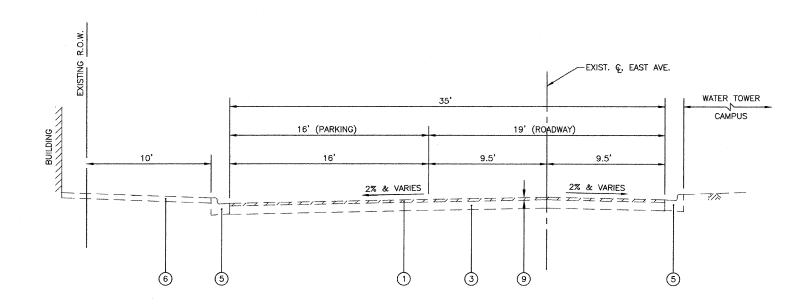
- DENOTES SPECIALTY ITEMS

REVISION	S	ILLINOIS DEBARTME	INT OF TRANSPORTATION
NAME	DATE		S 1472 & 3569
			OF RIVERSIDE
			CAMPUS RESTORATION PROJECT
	1	,	
	1	CHMMADY	OF QUANTITIES
	-	SUMMARI	OF QUANTITIES
	+		
	+		
	+	SCALE: NTS	DRAWN BY SMP
		D.TT 40 /04 /00	
		DATE: 12/01/08	CHECKED BY BDH





EXISTING TYPICAL SECTION - PINE AVENUE STA. 1+66.40 TO STA. 5+27.80

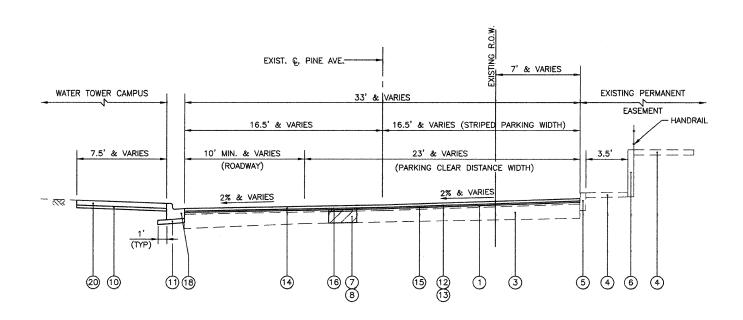


EXISTING TYPICAL SECTION - EAST AVENUE STA. 20+00 TO STA. 23+33.60

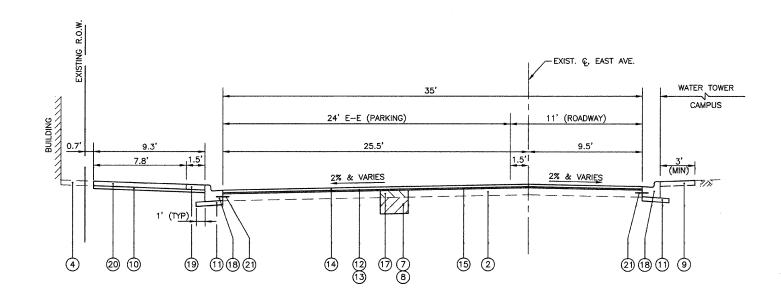
LEGEND

- 1 EXISTING HOT-MIX ASPHALT SURFACE COURSE, 2 1/2" & VARIES
- 2 EXISTING HOT-MIX ASPHALT PAVEMENT, 1 1/2" & VARIES
- 3 EXISTING P.C.C. BASE COURSE, 8" & VARIES
- 4 EXISTING AGGREGATE BASE COURSE, 16" & VARIES
- 5 EXISTING CONCRETE CURB & GUTTER, TYPE B-6.12
- 6 EXISTING P.C.C. SIDEWALK
- 7 EXISTING CONCRETE CURB, TYPE B
- 8 EXISTING RETAINING WALL
- 9 HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"

REVISIONS NAME DATE	ILLINOIS DEPARTMENT (EAST AVENUE TO VILLAGE OF F RAILWAY/WATER TOWER CAMPL	PINE AVENUE RIVERSIDE		
	EXISTING TYPICA SCALE: 1"=20"	AL SECTIONS DRAWN BY: SMP		
	DATE: 12/01/08	CHECKED BY: BDH		



PROPOSED TYPICAL SECTION - PINE AVENUE STA. 1+66.40 TO STA. 5+27.80



PROPOSED TYPICAL SECTION - EAST AVENUE STA. 20+00 TO STA. 23+33.60

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

HOT-WIX ASFRACT MIXTURE REQUI	KEMENIS
MIXTURE TYPE	VOIDS
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C" N50, 2 1/2" (IL-9.5mm)	4% ❷ 50 Gyr.
LEVEL BINDER (MACHINE METHOD), N50, (IL-9.5mm)	4% © 50 Gyr.
PATCHING	
CLASS D PATCHES, 2" (HMA BINDER IL-19mm)	4% © 70 Gyr.
CLASS D PATCHES, 8" (HMA BINDER IL-19mm)	4% © 70 Gyr.

F.A.U. SECTION RTE. SECTION 14728 06-00073-00-LS COUNTY соок TO STA. STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 63133

NOTE: 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA QUANTITIES IS 112 LB/SY/IN
2) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

P/	AVEMENT DES	SIGN CALCULATION	ONS	
DATE: IMPROVEMENT TYPE: LOCATION:	NOVEMBER 18, 2 FLEXIBLE PAVEM PINE AVENUE	008 IENT CROSS SECTION (RE	SURFACING)	
		III ROADWAY (ADT > 400 A	ND < OR = 2000)	
TRAFFIC FACTOR = $DP(((0.073*PV)+(44.3)$				
DESIGN LANE VOL % OF ADT		00 % TRUCKS		50 %PASS. VEHICLES
DESIGN PERIOD, YEARS (DP)		20 YEARS		
% OF PASSENGER VEHICLES		00 %		
% OF SINGLE UNIT TRUCKS		90 %		
% OF MULTI UNIT TRUCKS	0.	10 %		
AVERAGE DAILY TRAFFIC	= 600	TRAFFIC FACTOR		0.012830
NO. OF PASSENGER VEHICLES (PV)	= 588			
NO. OF SINGLE UNIT TRUCKS (SU)	= 11	18.R		2.5
NO. OF MULTI UNIT TRUCKS (MU)	= 1			
		STRUCTURAL NUMBER	R (Sn)	2.20
aksykon auguka aki dagar aki shirki ki kanara iki shirman angkara kilan kila ki shirma kila a maraki iki sa ma	condition and an emission of the constraint of t	The state of the s	4-42-econolisionis autoeste materiales	
MATERIAL			CONTRACTOR OF THE PARTY OF THE	
THICKNESS	STRUC	TURAL MATERIAL	COEFFICIENT	r Dt
2.50	HOT-MIX ASPHAL	TSURFACE COURSE,	0.40	1.00
1.50	EXIST. HMA BINDI	ER COURSE	0.22	0.33
16.00	EXIST. SUBBASE	GRAN MATI	0.08	1 28

Р	PAVEMENT DESIGN CALCULATIONS				
DATE: IMPROVEMENT TYPE: LOCATION:	COMP	MBER 18, 2001 OSITE PAVEN AVENUE	B HENT CROSS SECTION (RE	ESURFACING)	
CLASSIFICATION OF ROADWAY: TRAFFIC FACTOR = DP(((0.073*PV)*(44 DESIGN LANE VOL % OF ADT DESIGN PERIOD, YEARS (DP) % OF PASSENGER VEHICLES % OF SINGLE UNIT TRUCKS % OF MILL UNIT TRUCKS	.360*SU)+(154.943*MU))/ 100	% TRUCKS YEARS % %		50 %PASS. VEHICLES
				######################################	PROPERTY OF THE PARTY OF THE PA
AVERAGE DAILY TRAFFIC	=	600	TRAFFIC FACTOR		0.012830
NO. OF PASSENGER VEHICLES (PV)		588			
NO. OF SINGLE UNIT TRUCKS (SU)	=	11	LB.R		2.5
NO. OF MULTI UNIT TRUCKS (MU)		1	COMPOSITE STRUCTUR STRUCTURAL NUMBER		2.00
Maria Para Cara Cara Cara Cara Cara Cara Car		***************************************	Annual Control of the	CONTRACTOR CONTRACTOR	
MATERIAL THICKNESS		STRUCTU	RAL MATERIAL	COEFFICIENT	Dt
2.50		IX ASPHALT S	URFACE COURSE,	0.40	1.00
8.00		P.C.C.PAVEN	IENT	0.17	1.36
0.00		SUBBASE GF		0.08	0.00
NAMES OF THE PROPERTY OF THE P	TOTAL	Dt Provided =		***************************************	2.36

PINE AVENUE

EAST AVENUE

LEGEND

(1) EXISTING HMA PAVEMENT, 1 1/2" & VARIES

TOTAL Dt Provided =

2 EXISTING P.C.C. BASE COURSE, 8" & VARIES

3 EXISTING AGGREGATE BASE COURSE, 16" & VARIES

EXISTING P.C.C. SIDEWALK

6 EXISTING CONCRETE CURB, TYPE B

6 EXISTING RETAINING WALL 7 POROUS GRANULAR EMBANKMENT, SUBGRADE

(AT LOCATIONS DESIGNATED BY THE ENGINEER) (8) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

(AT LOCATIONS DESIGNATED BY THE ENGINEER)

9 SODDING, SPECIAL (INCLUDES 4" PULVERIZED TOP SOIL AND FERTILIZER)

(AT LOCATIONS DESIGNATED BY THE ENGINEER) 10 SUB-BASE GRANULAR MATERIAL, TYPE B 2"

(COST INCLUDED IN P.C.C. SIDEWALK)

1 SUB-BASE GRANULAR MATERIAL, TYPE B 4" (COST INCLUDED IN CONCRETE CURB AND GUTTER)

(2) BITUMINOUS MATERIALS (PRIME COAT)

(3) AGGREGATE (PRIME COAT)

(4) HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2 1/2"

(B) LEVELING BINDER (MACHINE METHOD), N70, VARIABLE THICKNESS (MINIMUM 3/4" THICKNESS)

(6) CLASS D PATHES, 2" (AT LOCATIONS DESIGNATED BY THE ENGINEER) (7) CLASS D PATHES, 8" (AT LOCATIONS DESIGNATED BY THE ENGINEER)

(B) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

(THICKNESS OF GUTTER FLAG SHALL BE 10" EXCEPT WHERE ADJACENT TO PCC PAVEMENT. WHEN ADJACENT TO PCC PAVEMENT, BOTTOM OF GUTTER SHALL BE AT THE SAME GRADE AS THE BOTTOM OF THE P.C.C. PAVEMENT)

19 PORTLAND CEMENT CONCRETE SIDEWALK 5"

(AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER) 20 PORTLAND CEMENT CONCRETE SIDEWALK 5", SPECIAL (SWANEE MIX)

(AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER) 21) 24" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS, 24" CTRS. DRILLED AND GROUTED IN PLACE

(COST INCLUDED IN CONCRETE CURB AND GUTTER)

REVISIONS		ILLINOIS DEDARTMEN	IT OF TRANSPORTATION
NAME	DATE		TO PINE AVENUE
			OF RIVERSIDE
			MPUS RESTORATION PROJECT
		, , , , , , , , , , , , , , , , , , , ,	55 (120)5(4)(6)() (10025)
		DRADACED TV	DICAL CECTIONS
		PROPOSED III	PICAL SECTIONS
		SCALE: 1"=20'	DRAWN BY: SMP
		DATE: 12/01/08	OUTOUTED THE DOLL

EARTHWORK		
LOCATION	REMOVAL & DISPOSAL OF UNSUITABLE MAT.* (CU YD)	FURNISHED EXCAVATION** (CU YD)
RAILWAY/WATER TOWER CAMPUS AREA	415	40
EAST AVE. AND PINE AVE. LANDSCAPE RESTORATION	30	0
EAST AVE. AND PINE AVE. UNDERCUTS	77	0
TOTAL QUANTITY =	522	40

^{*}ALL CUT MATERIAL SHALL BE HAULED OFF SITE DUE TO NO ONSITE STORAGE LOCATIONS.

**ALL FILL MATERIAL (EMBANKMENT) SHALL BE BROUGHT IN FROM OFFSITE LOCATION,
SINCE THE ONSITE EXCAVATED MATERIAL MUST BE HAULED OFF SITE.

CATCH BAS	INS TO BE ADJ	USTED WITH
NEW TY	PE 1 FRAME, O	PEN LID
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
AST AVENUE		
20+97	9.5' RT	1
	<u> </u>	<u> </u>
OTAL QUANTITY =	•	1

		IUSTED
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
ST AVENUE		
21+03	13' LT	1

MANHOLE	S TO BE ADJUS	TED WITH
NEW TYP	PE 1 FRAME, CLO	OSED LID
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
PINE AVENUE		
1+80	2' LT	1
2+42	1'RT	1
2+81	18' RT	1
4+11	5' RT	1
4+70	6' RT	1
4+97	10' LT	1
EAST AVENUE		
22+06	56' RT	1
23+12	9' LT	1
TOTAL QUANTITY		8

	D BE RECONST PE 1 FRAME, CL		
	OFFSET QUANTITY		
STATION	(FEET)	(EACH)	
PINE AVENUE 4+92	16' RT	1	
TOTAL QUANTITY =		1	

OFFSET QUANTIT		
(FEET)	(EACH)	
18' LT	1	
	<u> </u>	
	* p-	

VALVE VAUL	TS TO BE ADJ	USTED WITH
NEW TYP	E 1 FRAME, CL	OSED LID
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
EAST AVENUE		
21+95	10' LT	1
22+07	17' RT	1
22+15	17' RT	1
TOTAL QUANTITY =		3

VALVE B	OXES TO BE A	DJUSTED
STATION	OFFSET (FEET)	QUANTITY (EACH)
INE AVENUE 4+04	30° LT	1
OTAL QUANTITY =		<u>' 1</u>

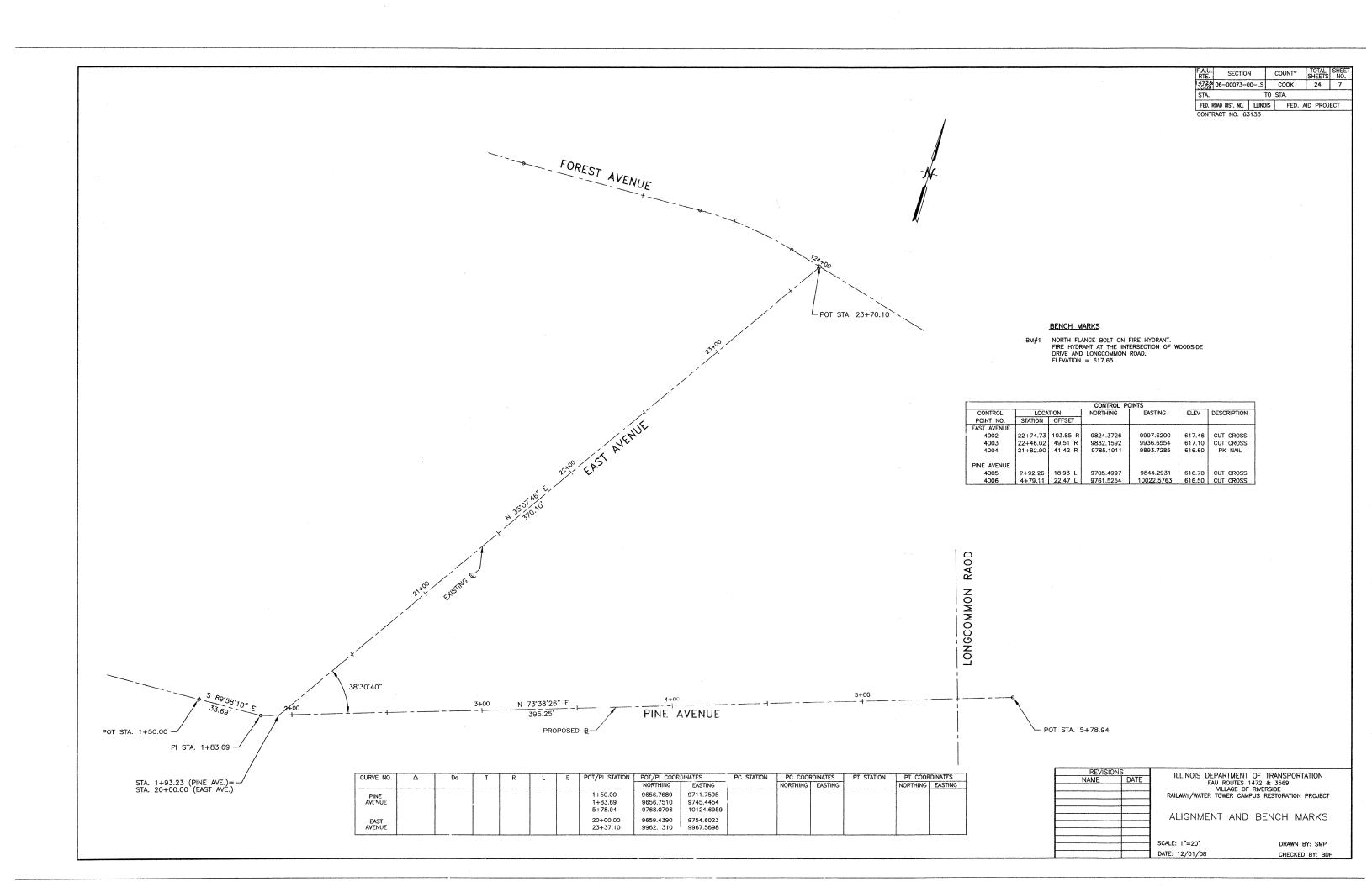
	HANDHOLE	
	OFFSET	QUANTITY
STATION	(FEET)	(EACH)
AST AVENUE 21+84	17' RT	1
OTAL QUANTITY =		1

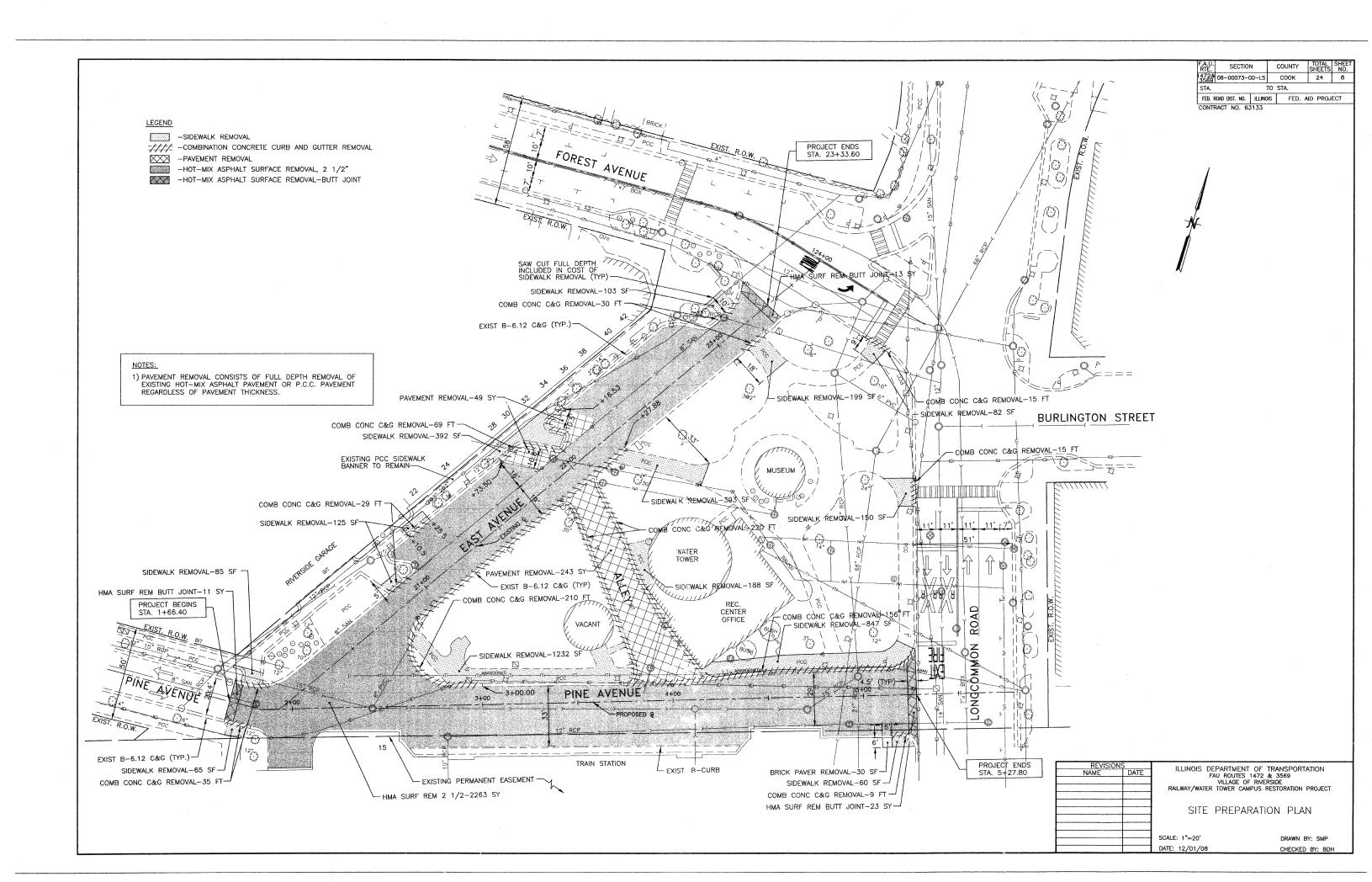
HANDHOLE TO BE ADJUSTED				
	OFFSET	QUANTITY		
STATION	(FEET)	(EACH)		
PINE AVENUE 3+17	21' L.T	1		
TOTAL QUANTITY = 1				

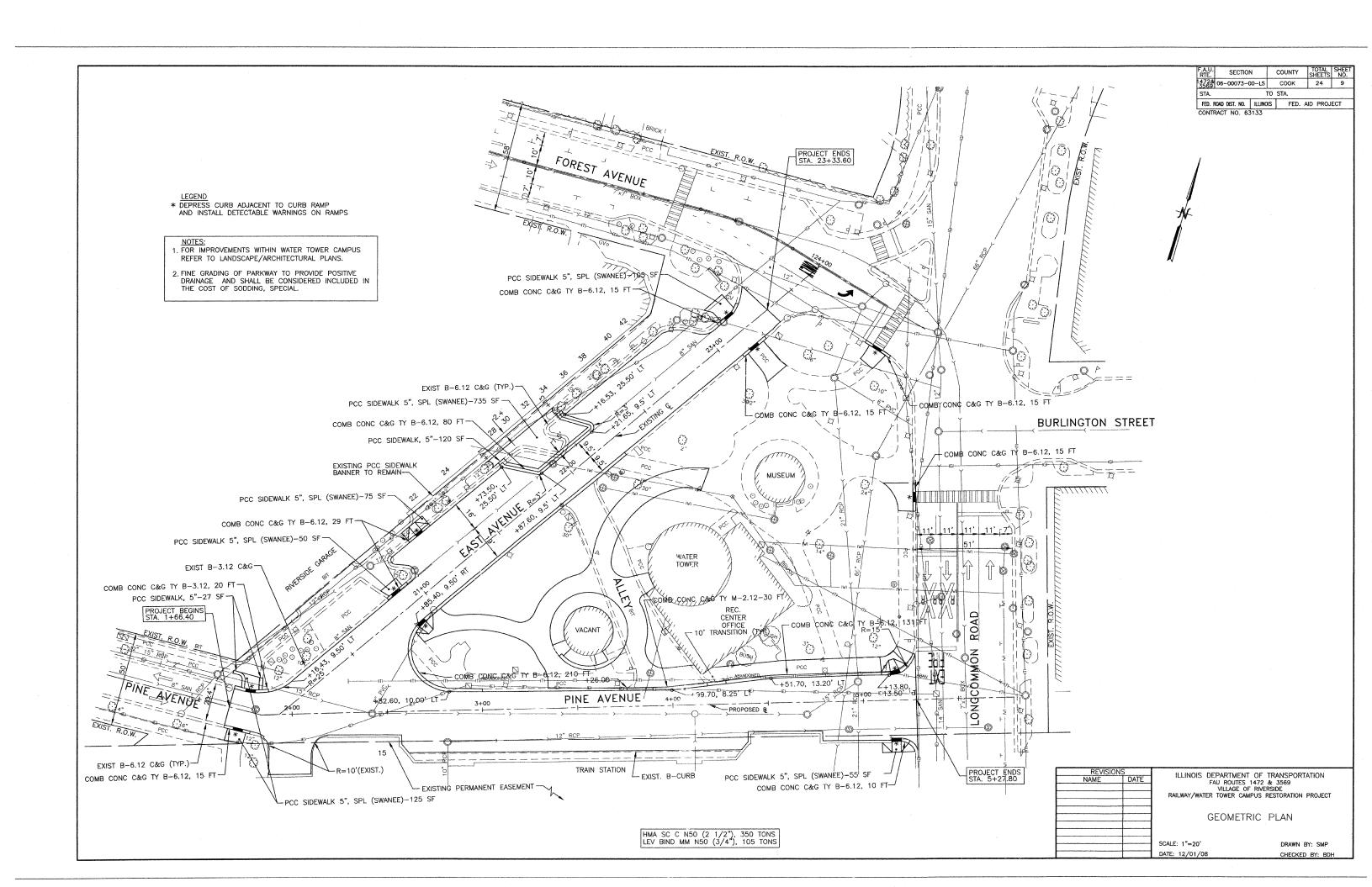
REMOVE EXISTING HANDHOLE				
	OFFSET	QUANTITY		
STATION	(FEET)	(EACH)		
EAST AVENUE 21+84	17' RT	1		
TOTAL QUANTITY =		1		

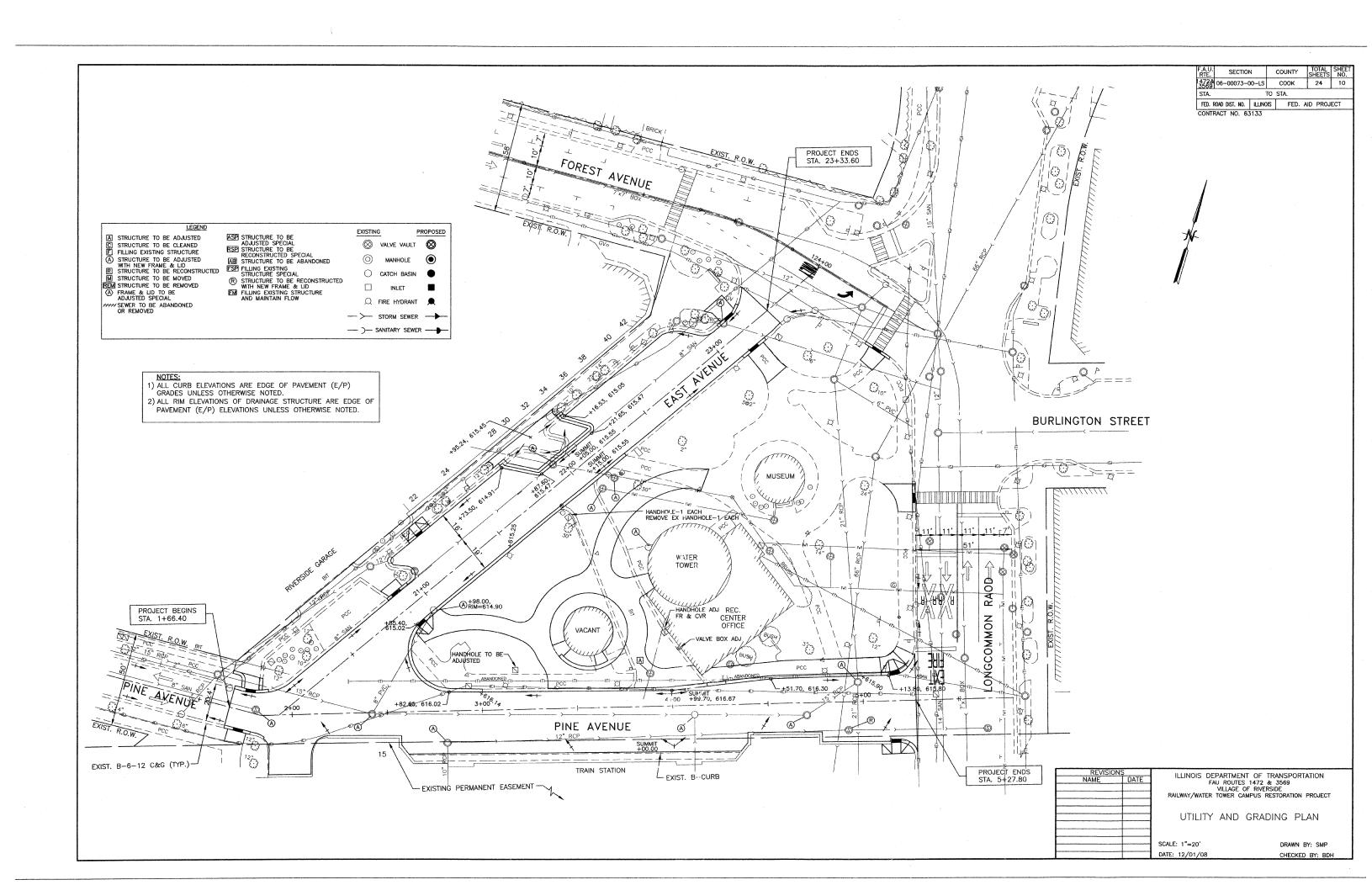
HANDHOLE TO BE ADJUSTED WITH NEW FRAME AND COVER					
OFFSET QUANTITY					
STATION	(FEET)	(EACH)			
PINE AVENUE 3+96	39' LT	1			
TOTAL QUANTITY = 1					

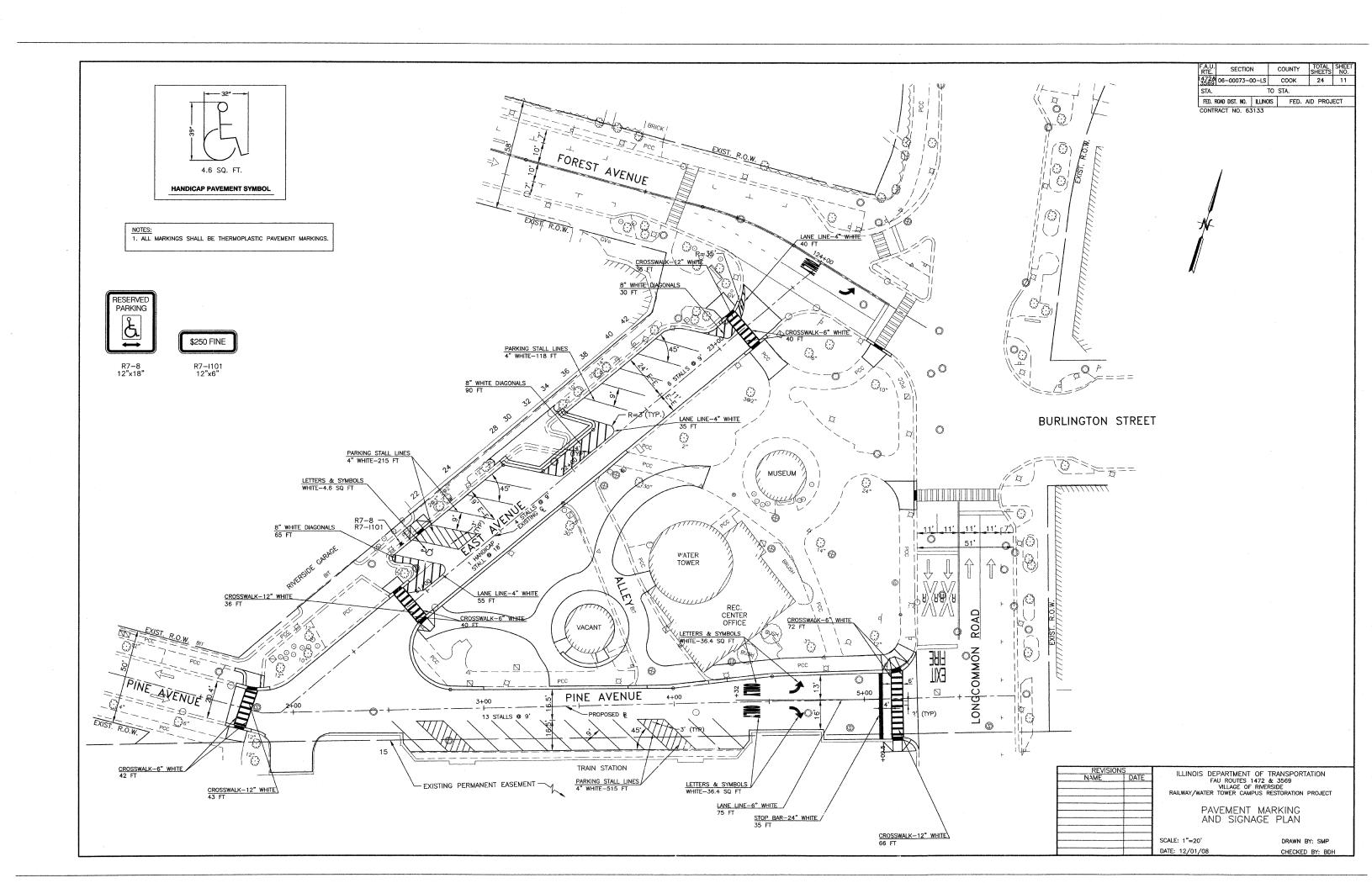
REVISION	S	ILLINOIS DEPARTMENT OF TRANSPORTATION			
NAME	DATE	FAU ROUTES 1			
		VILLAGE OF			
		RAILWAY/WATER TOWER CAME			
		,			
		SCHEDULE OF	OUANTITIES		
		OOMEDOLL OF	QUANTILO		
		SCALE: N/A	DDAWN DV CUD		
		•	DRAWN BY SMP		
		DATE: 12/01/08	CHECKED BY BDH		

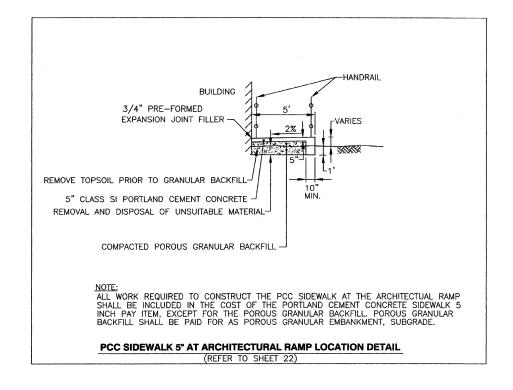


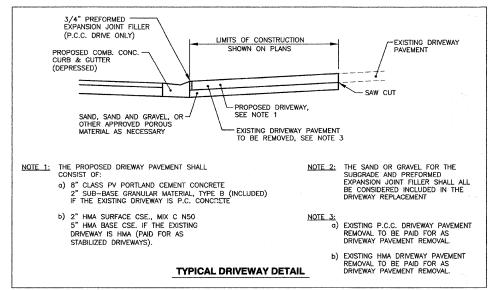


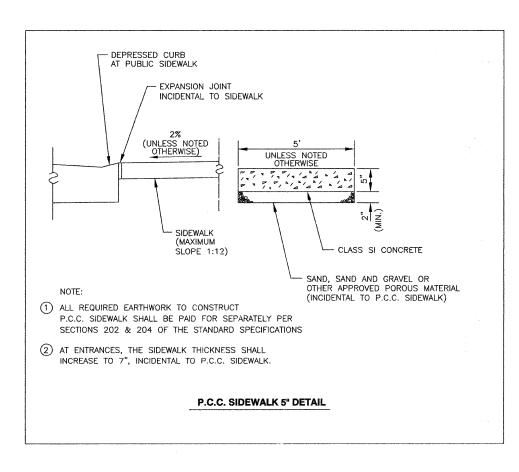


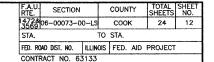


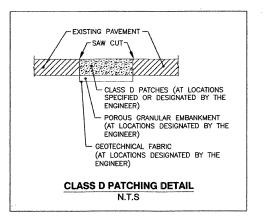


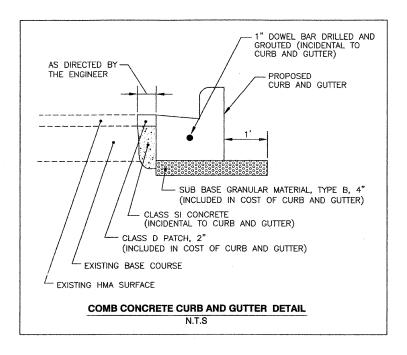












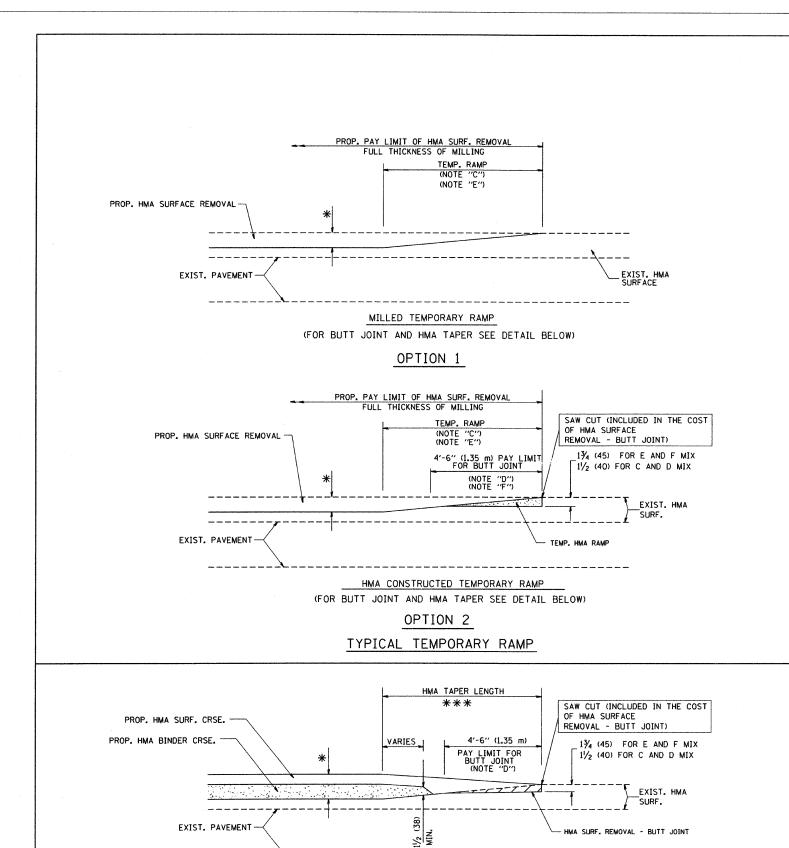
REVISIONS NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
IVANIL	DAIL	FAU ROUTES 1472 & 3569 VILLAGE OF RIVERSIDE
		RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT
		CONSTRUCTION DETAILS

DRAWN BY SMP

CHECKED BY BDH

SCALE: NTS

DATE: 12/01/08



CONTRACT NO. TOTAL SHEET SHEETS NO. COUNTY SECTION 1472 & 06-00073-00-LS COOK 24 13 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 63133 PROP. HMA OR PCC SURFACE REMOVAL - BUTT JOINT SAW CUT (INCLUDED IN THE COST OF HMA OR P.C.C. SURFACE REMOVAL EXIST. HMA OR PCC SURFACE 30'-0" (9.0 m) (NOTE "A") 15'-0" (4.5 m) (NOTE "B") - BUTT JOINT) (NOTE "D") 13/4 (45) FOR E AND F MIX 11/2 (40) FOR C AND D MIX * * EXIST. PAVEMENT BUTT JOINT DETAIL TAPER LENGTH * * VARIES PROP. HMA SURF. CRSE. 13/4 (45) FOR E AND F MIX PROP. HMA BINDER CRSE. 11/2 (40) FOR C AND D MIX * * EXIST. PAVEMENT HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

st st PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP, RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

NAME	DATE	
M. DE YONG	6-13-90	
M. DE YONG	7-3-90	
M. DE YONG	3-27-92	
R. SHAH	09/09/94	
R. SHAH	10/25/94	
A. ABBAS	03/21/97	
M. GOMEZ	04/06/01	
R. BORO	01/01/07	SC
	T	36

REVISIONS

BUTT JOINT AND HMA TAPER

DETAILS

CALE: VERT. NONE DRAWN BY
CHECKED BY

BD400-05 (VI=BD32)

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

BUTT JOINT AND

HMA TAPER

TOTAL SHEET SHEETS NO... 24 14 F.A. SECTION 1472.8 3569 06-00073-00-LS COUNTY соок STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 63133 TYPE III BARRICADES WITH TWO FLASHING AMBER LIGHTS ON EACH. AHEAD TYPE I OR TYPE II BARRICADES WITH ONE FLASHING AMBER LIGHT ON EACH, OR TYPE III BARRICADES WITH TWO FLASHING 200'± (60 m±)-21 (530) AMBER LIGHTS ON EACH. DRIVEWAY 200'± (60 m±) 500'± (150 m±) STREET; SP 40 MPH OR 09) COLLECTOR LIMITS 40 MPH LOCAL W20-1(0) ROAD CONSTRUCTION SPEED M6-4(0)-2115 ROAD M6-1(0)-2115

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:
- O) 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
- 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.

REVISIO	NS	ILLINOIS DEPARTMENT	OF TRANSPORTATION
NAME	DATE	ILLINOIS DELAKIMENI	UP TRANSPURTATION
LHA	6/89	TRAFFIC CONTROL	AND PROTECTION
T. RAMMACHER	09/08/94	THAT IC CONTINOL	AND THOTECTION
J. OBERLE	10/18/95	FC)R
A. HOUSEH	03/06/96	CIDE BOADS TAITE	TOCECTIONS AND
	10/15/96	SIDE ROADS, INTE	ERSECTIONS, AND
T. RAMMACHER	01/06/00	DRIVE	WAYS
		SCALE: NONE	DRAWN BY
		SCALL: HOHE	DRAWN DI
			CHECKED BY

TC-10

CONTRACT NO.

DATE NAME SCALE NAME

TYPICAL CROSSWALK MARKING

12 (300) WHITE DETAIL "B"

-6 (150) WHITE

DETAIL "A"

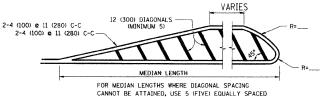
DATE VAME SCALE NAME 2-4 (100) YELLOW • 11 (280) C-C

NO DIAGONALS

4" (1.2 m) OUTSIDE TO OUTSIDE OF LINES

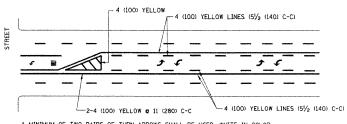
2-4 (100) YELLOW • 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY

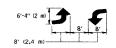


DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

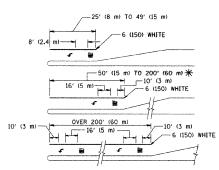


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



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

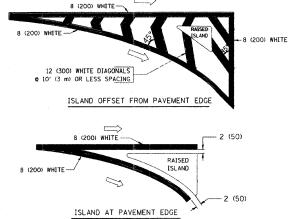
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

| F.A.U | SECTION | COUNTY | TOTAL | SHEET | NO. | 1472 & 06-00073-00-LS | COOK | 24 | 15 | STA. | FED. ROAD DIST. NO. | ILLINOIS | FED. AID | PROJECT | CONTRACT NO. 63133

CONTRACT NO.



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLO#	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	5½ (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	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE:	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS		ONE WAY TRAFFIC	
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"2-3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) c 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) 1150' (45 m) C-C (0VER 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

REVISIO		
NAME	DATE	
EVERS	03-19-90	
T. RAMMACHER	10-27-94	1
C. JUCIUS	09-09-09	
		_

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

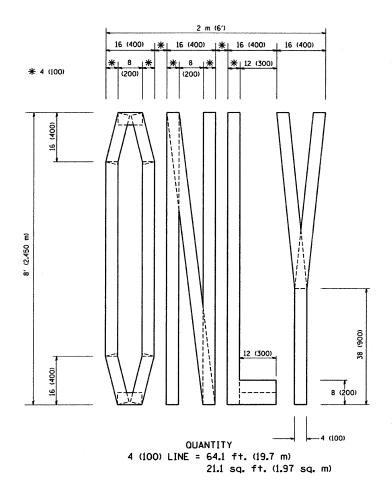
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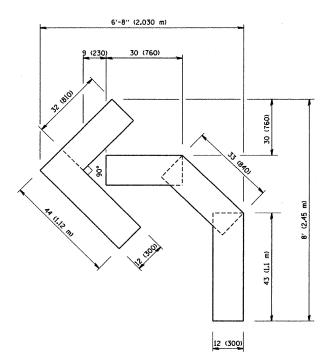
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TC-13

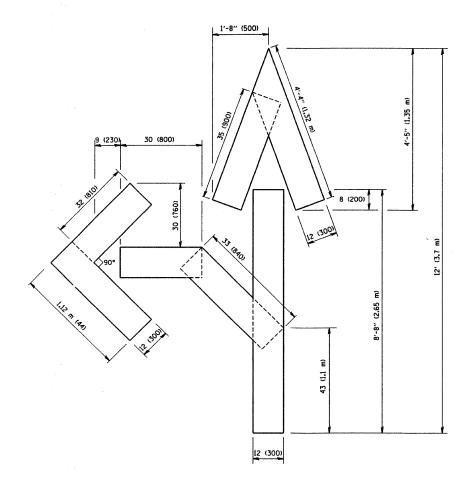
| F.A. | SECTION | COUNTY | TOTAL | SHEETS | NO. | 1477.8 | 06-00073-00-LS | COOK | 24 | 16 | TO STA.

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT CONTRACT NO. 63133





OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

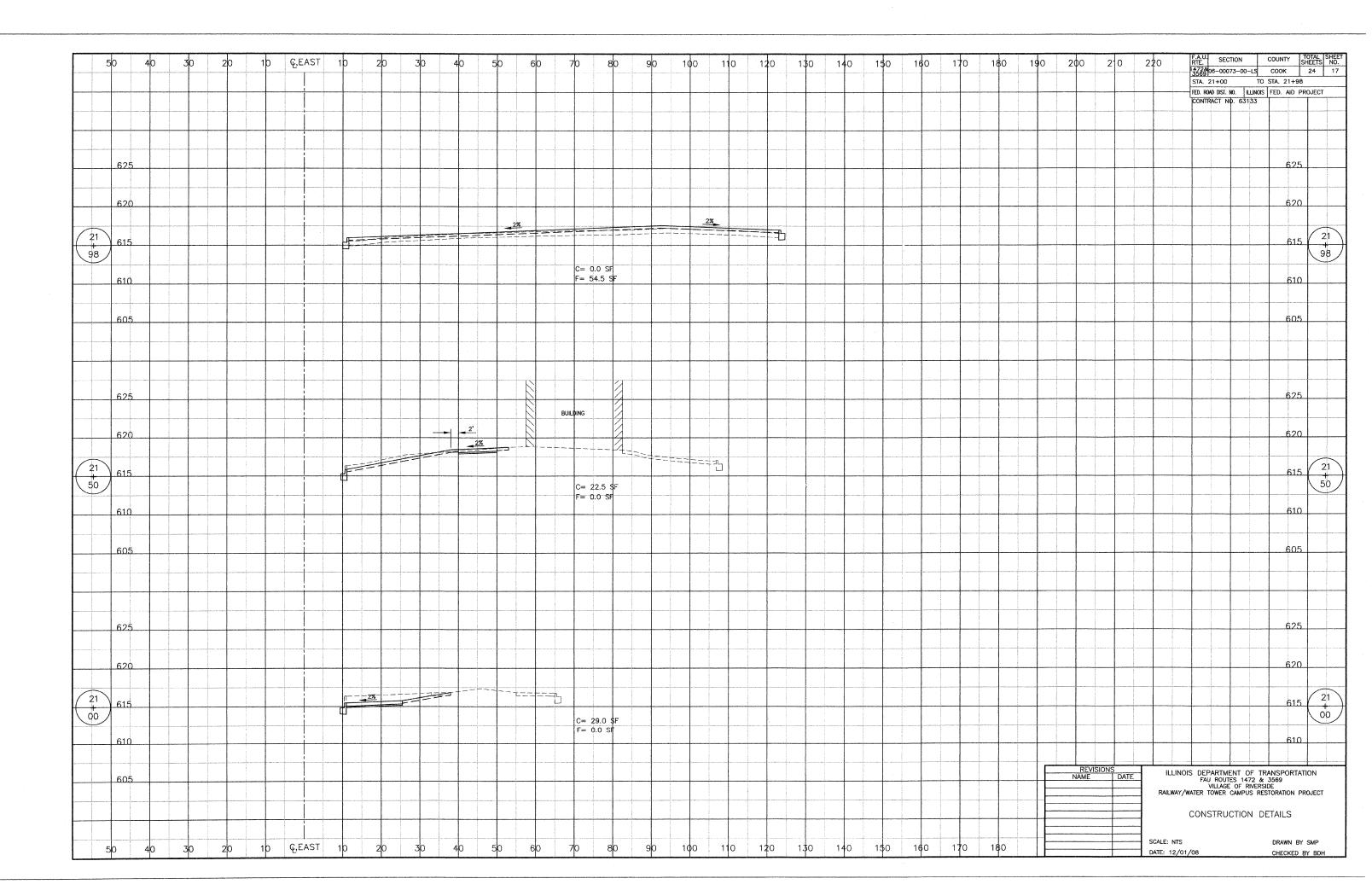
All dimensions are in inches (millimeters) unless otherwise shown.

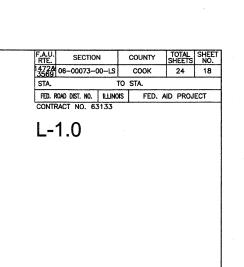
NS	II
DATE	11
09/18/94	
06/01/96	
06/05/96	
11/04/97	
03/02/98	
08/28/00	
	SCALE:
	DATE 09/18/94 06/01/96 06/05/96 11/04/97 03/02/98

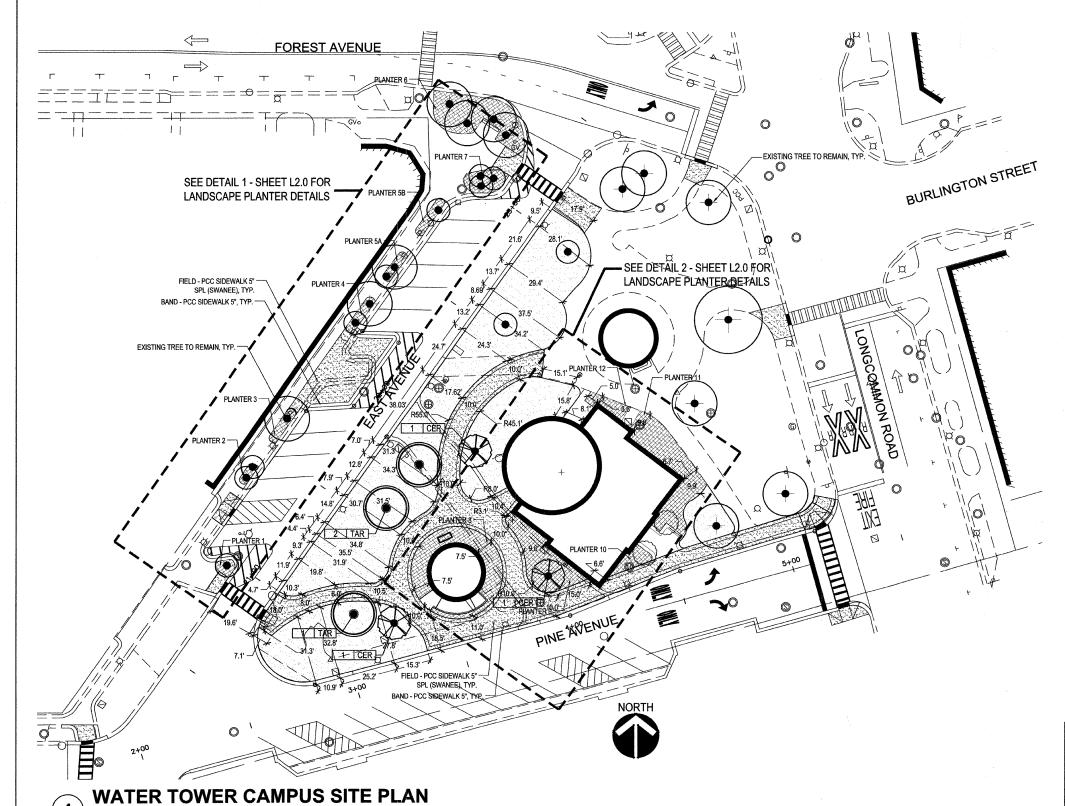
ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

DRAWN BY CADD CHECKED BY







SCALE: 1" = 20'-0"

Diane Legge Kemp, PrintCipal
Discrete Legge Kemp, PrintCipal
Discrete Design
410 South Michigan Avenue
Chicago, Illinois 60605
ph: 312.322.0911

FOR SHEETS L-1.0 THROUGH L-3.0 AND A-1.0 THROUGH A-2.0

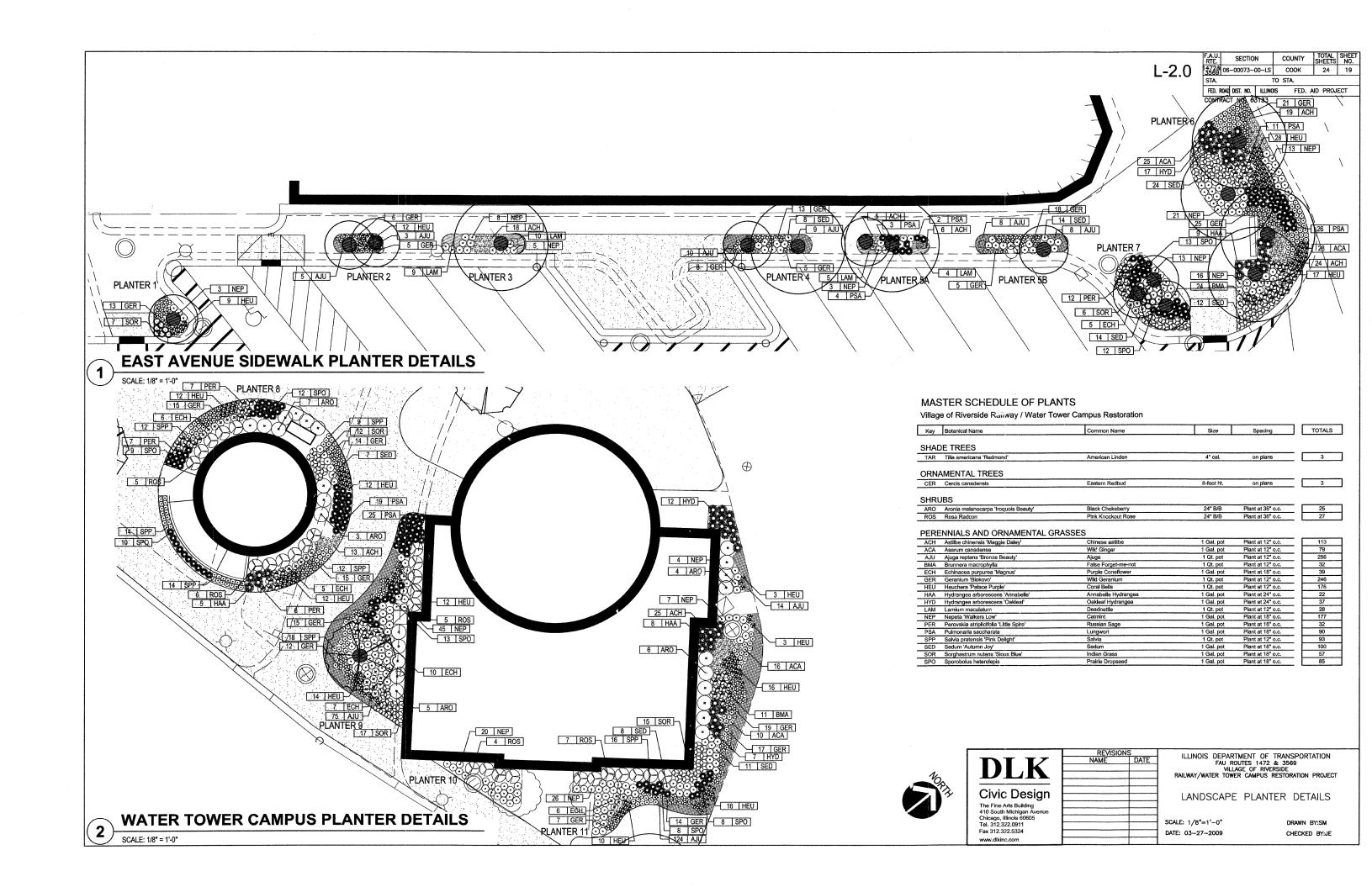
	REVISIO	NS	
DLK	NAME	DATE	RA
Civic Design The Fine Arts Building			KA
410 South Michigan Avenue Chicago, Illinois 60605 Tel. 312.322.0911 Fax 312.322.5324			SCALE

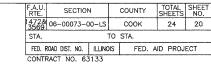
ILLINOIS DEPARTMENT OF TRANSPORTATION FAU ROUTES 1472 & 3569 VILLAGE OF RIVERSIDE RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT

LANDSCAPE SITE PLAN

SCALE: 1"=20'-0" DATE: 03-27-2009

DRAWN BY: SM CHECKED BY: JE

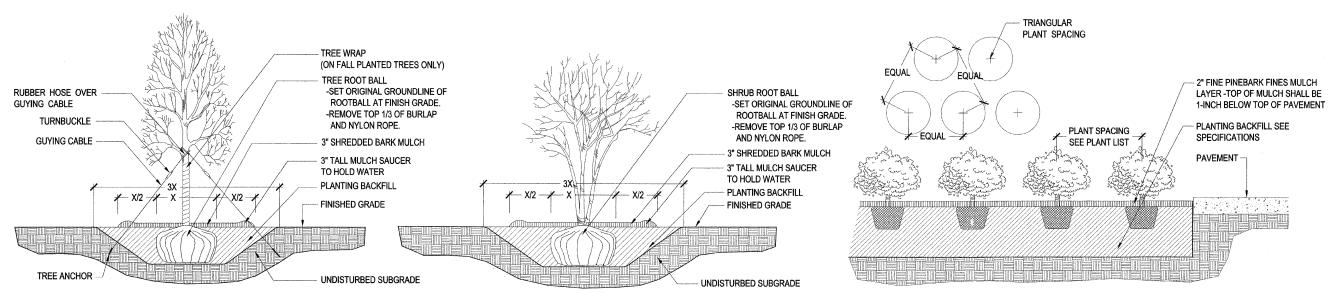




DRAWN BY:SM

CHECKED BY:JE



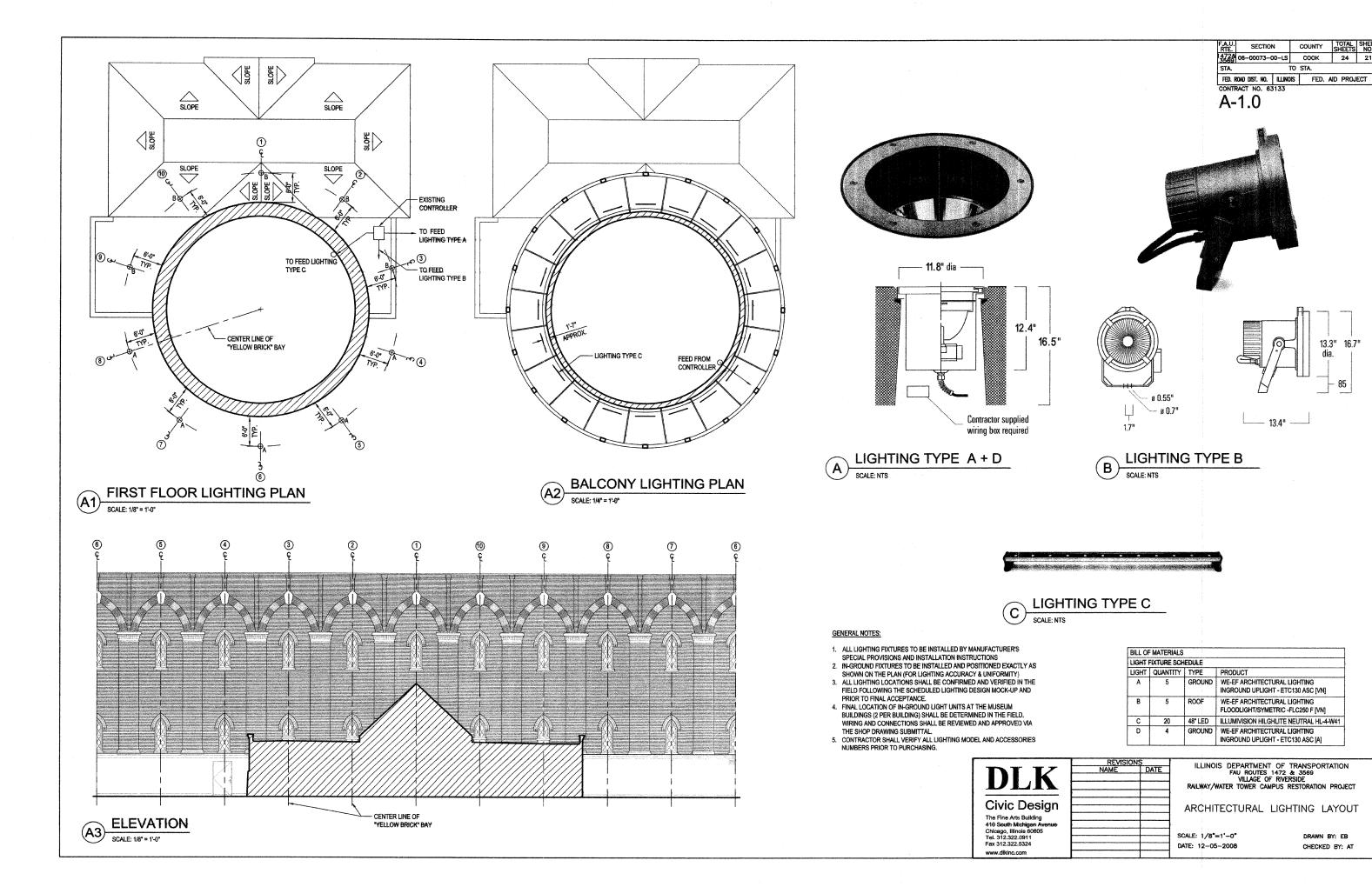


SHADE TREE PLANTING DEATIL SCALE: NOT TO SCALE

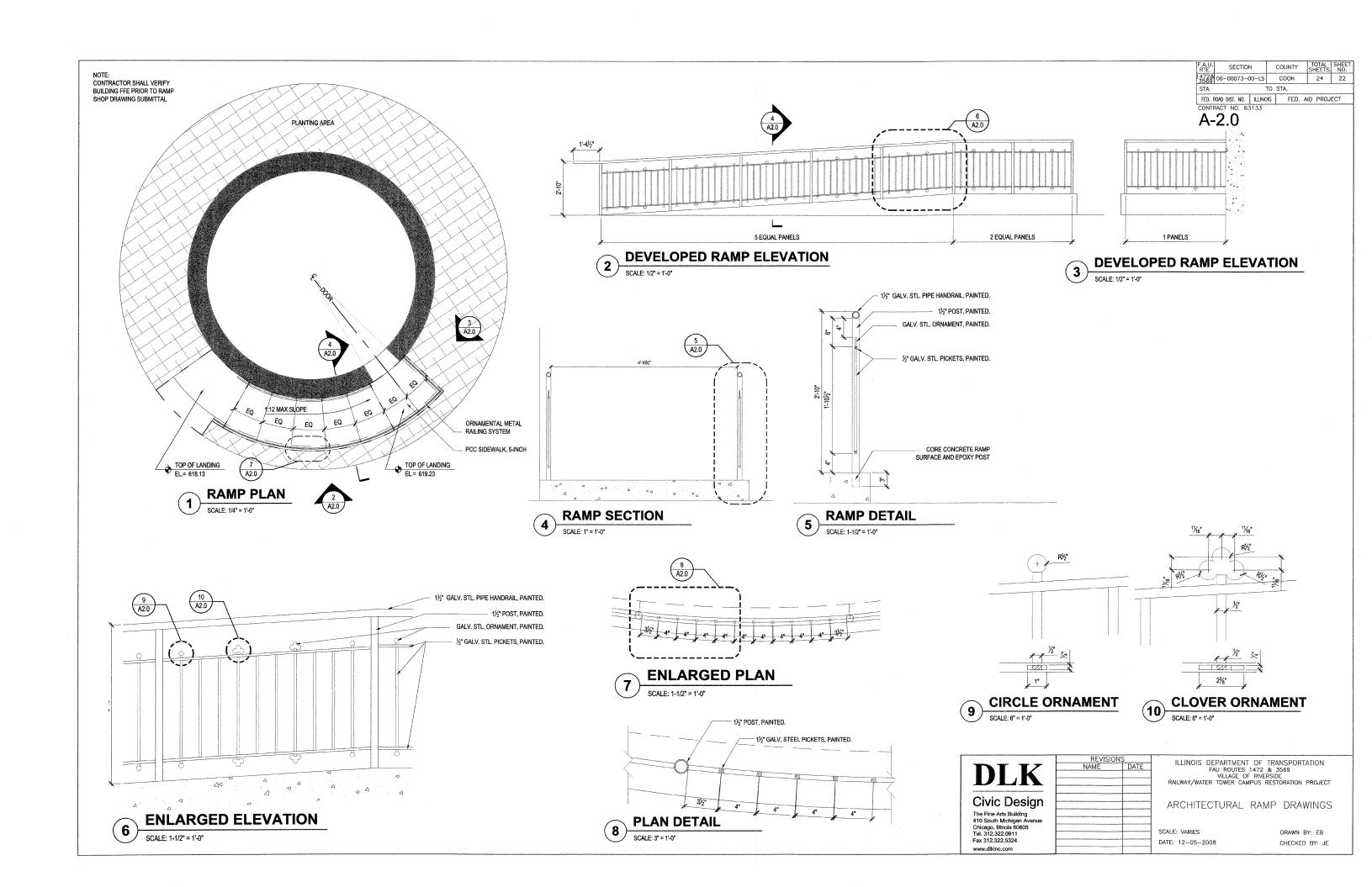
SHRUB PLANTING DETAIL SCALE: NOT TO SCALE

GROUNDCOVER - PERENNIAL PLANTING DETAIL SCALE: NOT TO SCALE

> ILLINOIS DEPARTMENT OF TRANSPORTATION
> FAU ROUTES 1472 & 3569
> VILLAGE OF RIVERSIDE
> RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT **DLK** Civic Design LANDSCAPE DETAILS The Fine Arts Building 410 South Michigan Avenue Chicago, Illinois 60605 Tel. 312.322.0911 SCALE: NOT TO SCALE Fax 312.322.5324 DATE: 12-05-2008 www.dlkinc.com

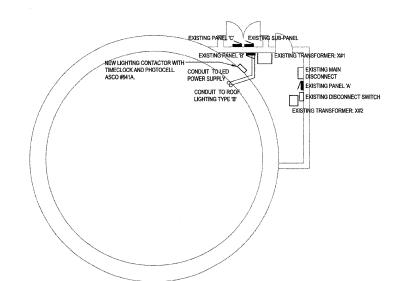


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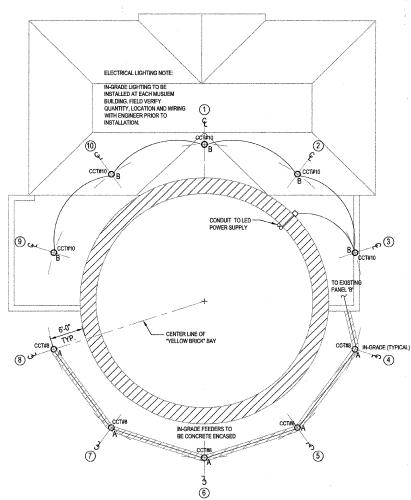


F.A.U. RTE.	SECTION	٧	COUNTY	TOTAL SHEETS	SHEET NO.							
472& 3569	06-00073-0	00-LS	COOK	24	23							
STA.	STA. TO STA.											
FED. F	road dist. No.	ILLINO	IS FED.	AID PROJ	ECT							

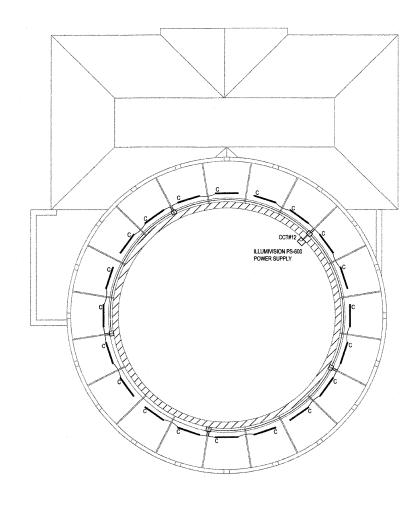
CONTRACT NO. 63133



ELECTRICAL CLOSET PLAN SCALE: 1/4" = 1'-0"



FIRST FLOOR LIGHTING PLAN



BALCONY LIGHTING PLAN E3 SCALE: 1/4" = 1'-0"



BUILDING ENGINEERING M SYSTEMS, LLC MECHANICAL, ELECTRICAL PLUMBING AND FIRE PROTECTION ENGINEERING 444 N. WELLS STREET SUITE 501 CHICAGO, IL 60654 T (372) 836-0596 F (312) 836-0596 www.besngr.com

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAU ROUTES 1472 & 3569
VILLAGE OF RIVERSIDE
RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT

ELECTRICAL POWER AND LIGHTING PLANS

SCALE: AS NOTED DATE: FEBRUARY 6, 2009

DRAWN BY: CHECKED BY:

ELECTRICAL NOTES AND SPECIFICATIONS:

- ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL ELECTRICAL, BUILDING AND FIRE CODES, APPLICABLE FEDERAL AND STATE REGULATIONS.
- LAYOUT IS DIAGRAMMATIC AND CONTRACTOR SHALL INSTALL EQUIPMENT TO MEET THE FIELD CONDITIONS.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION FEES AS REQUIRED FOR HIS PORTION OF THE
- CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL COMPLETION.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE RESPECTIVE TRADES AND VERIFY LOCATIONS FROM THE ARCHITECTURAL DRAWINGS, FIELD MEASUREMENTS AND SUPPLIER SHOP DRAWINGS
- CONTRACTOR SHALL VISIT SITE TO DETERMINE THE FULL EXTENT OF THE WORK AND FACILITY LOCATIONS AND VERIFY WITH THE LOCAL GOVERNING
- 7. CONTRACTOR SHALL FURNISH SHOP DRAWING ON ALL EQUIPMENT AND FIXTURES TO ENGINEER FOR REVIEW; QUANTITY AS PER GENERAL PROVISIONS.
- CONTRACTOR SHALL FURNISH ONE SET OF AS-BUILTS TO ENGINEER OF ALL CONTRACT WORK.
- CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS OF OTHER TRADES AND INCLUDE IN HIS BID ANY ADDITIONAL WORK REQUIRED BY THIS

- 10. ALL EXISTING CONDITIONS MUST BE VERIFIED AT THE PROJECT SITE BY THE CONTRACTOR: THE CONTRACTOR IS REQUIRED TO MAKE ANY AND ALL PROVISIONS NECESSARY TO ADAPT THE NEW WORK TO EXISTING CONDITIONS. ALL SUCH ADAPTATION MUST BE REVIEWED BY THE ENGINEER AND MUST BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL AVOID ALL STRUCTURAL SUPPORT MEMBERS. RELOCATE EQUIPMENT AS NECESSITATED BY FIELD CONDITIONS, FROM WHERE SHOWN ON DRAWINGS, CUTTING SHALL ONLY BE DONE AFTER OBTAINING ARCHITECT'S REVIEW.
- THE CONTRACTOR SHALL PROTECT THE EXISTING FACILITY AND SHALL EXERCISE CARE NOT TO DAMAGE ANY EXISTING CONSTRUCTION TO REMAIN. ALL WORK DAMAGED BY THE CONTRACTOR MUST BE RESTORED SO AS TO MATCH EXISTING AND STATEMENT OF THE CONTRACTOR MUST BE RESTORED SO AS TO MATCH MUST BE RESTORED SO AS TO MATCH EXISTING ADJACENT SURFACES IN ALL RESPECTS AND AS APPROVED BY THE ARCHITECT. ANY SUCH CORRECTIVE WORK MUST BE PERFORMED AT NO ADDITIONAL COST. ALL CORING AND ELECTRICAL WORK DONE AT FLOOR OR FLOOR BELOW SHALL BE AFTER HOURS AND ON OVERTIME BASIS.
- 13. THE CONTRACTOR SHALL VERIFY THE THE CONTRACTOR SHALL VERIFY THE CONDITION OF EXISTING ELECTRICAL PANELS AND NUMBER OF SPARES AND SPACES. HE SHALL PROVIDE AND INSTALL OVERCURRENT DEVICES AS REQUIRED TO CONTROL NEW CIRCUITRY.
- 14. THE CONTRACTOR SHALL MAINTAIN THE THE CONTRACTOR SHALL MAINTAIN THE ELECTRICAL CONTINUITY OF ELECTRICAL CIRCUITS, EQUIPMENT, AND DEVICES TO REMAIN. HE SHALL REWORK AND RECIRCUIT AS NECESSARY TO INSURE THE PROPER FUNCTIONING OF REMAINING CIRCUITS, EQUIPMENT AND DEVICES.

- 15. CIRCUIT NUMBERS GIVEN ON DRAWINGS CIRCUIT NUMBERS GIVEN ON DRAWINGS
 ARE FOR CIRCUIT IDENTIFICATION ONLY.
 THE CONTRACTOR SHALL INSTALL
 CIRCUITRY AS GOVERNED BY FIELD
 CONDITIONS. HE SHALL KEEP A TYPED
 RECORD CORRELATING GIVEN AND ACTUAL CIRCUIT NUMBERS AND RECORD THIS INFORMATION ON THE PANEL
- 16. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER CONTRACTORS AND WITH THE EXISTING JOB SITE CONDITIONS. HE SHALL RELOCATE EQUIPMENT AS REQUIRED TO AVOID CONFLICT WITH OTHER TRADES. ALL DEVIATIONS SHALL BE APPROVED BY THE ENGINEER BEFORE EXECUTION OF WORK.
- 17. OUTAGES OF EXISTING ELECTRICAL SYSTEMS NECESSITATED BY THE NEW CONSTRUCTION WORK OF ALL TRADES SHALL BE IN ACCORDANCE WITH A SCHEDULE ISSUED IN THE FIELD BY THE LANDLORD & BLDG. ENGINEER. INCLUDE ALL ELECTRIC WORK, OVERTIME LABOR AND SUPERVISION NECESSARY TO ADHERE TO THIS SCHEDULE.
- 18. ANY EXISTING ELECTRICAL WORK WHICH IS PULLED OUT OR CUT AWAY SHALL BE REMOVED FROM THE SITE AS IF IT WERE PROPER CREDIT SHALL BE GIVEN FOR ALL SALVAGEABLE ITEMS.
- 19. RACEWAYS SHALL BE MINIMUM 3/4" EMT FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY AND MINIMUM 3/4" EMT FOR TELEPHONE.
- CONDUCTORS SHALL BE COPPER, MINIMUM #12 A.W.G., VITH TYPE THWN INSULATION.
- RACEWAY FITTINGS SHALL BE GALVANIZED STEEL, CODE APPROVED TYPE.

- 22. ALL BRANCH CIRCUITS SHALL BE GROUPED INTO PHASE BALANCED MULTIPLE CIRCUIT HOMERUNS. A MAXIMUM OF 6 CIRCUITS SINGLE HOMERUN.
- 23. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE CONDUCTOR AND RACEWAY SYSTEM FOR ALL CIRCUIT DEVICES INDICATED ON THE PLANS EVEN THOUGH NOT DELINEATED.
- WIRES FOR BRANCH CIRCUITS THAT EXCEED 100' IN LENGTH FROM PANEL TO CENTER OF LOAD SHALL NOT BE SMALLER THAN #10 AWG.
- 25. INSTALLATION OF ALL LIGHTING FIXTURES SHALL INCLUDE ALL NECESSARY CONDUIT (SOLID OR FLEXIBLE), WIRING, JUNCTION BOXES, ETC., FOR CIRCUIT DEVICES.
- ALL ELECTRICAL EQUIPMENT AND INSTALLATION ABOVE THE CEILING SHALL BE APPROVED FOR PLENUM CONDITIONS AS REQUIRED BY APPLICABLE GOVERNING AUTHORITY.
- 27. ALL CIRCUITRY TO BE RUN CONCEALED UNLESS OTHERWISE INDICATED.
- 28. MATERIAL AND EQUIPMENT SHALL MATCH BUILDING STANDARD UNLESS NOTED OTHERWISE.

SECTION COUNTY 472& 06-00073-00-LS COOK 24 24 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO 63133

VOLTAGE DROP CALCULATIONS

V(d)=RESISTANCE*(LENGT) =2.0*(88/1000)*1.4 =0.257V

BRANCH: LIGHTING TYPE 'C'
RUN OVER 100FT TO MAX.: 110FT
CABLE SIZE: 10AWG
AMPACITY SERVED: 4-5A
CURRENT SETSTANCE: 1.2
120V 19 CONNECTION

CONDUCTORS FOR BRANCH CIRCUITS SHALL BE SIZED TO PREVENT A VOLTAGE DROP NOT TO EXCEED 3% AT THE FARTHEST LOAD PER VILLAGE OF RIVERSIDE AND NEC CODE SECTION 210.19 CONDUCTORS FOR FEEDERS SHALL BE SIZED TO PREVENT A VOLTAGE DROP NOT TO EXCEED 3% AT THE FARTHEST LOAD PER VILLAGE OF RIVERSID AND NEC CODE SECTION 215.2. ALL FEEDERS GREATER THAN 100' IN LENGTH SHALL BE SIZED ONE GAGE LARGER TO COMPLY WITH THIS SECTION.

PHOTOCELL TO BE LOCATED ON THE ROOF. VERIFY LOCATION IN THE FIELD. EXISTING FEEDERS EXISTING FEEDERS EXISTING FEEDERS EXISTING FEEDERS EXISTING FEEDERS EXSITING PANEL: 'B' MCB 30--POLE EXSITING SUB-PANEL EXSITING PANEL: A EXSITING PANEL: 'C' MAIN DISCONNECT SWITCH 480/277V 400A 120/208V 120/208V 480/277V 400A 37.5k'/A 480-: 20/208V 3ø.4W EXISTING DRY-TYPE TRANSFORMER: EXISTING FEEDERS TO UTILITY METER

RIVERSIDE TOWER-RISER DIAGRAM

PANEL DESIGNATION: 'B'													
BUS	ICE: 120/208 VOLTS , 3 SIZE: 200 AMPS TION: ELECTRIC CLOSET		☐M.L.O. ■ MAIN O.C. DEVICE - SIZE: <u>200</u> AMPS ☐ GND BUS ☐ IISO GND BUS										
CCT#		POLES	PHASE	Α	PHAS	ΕВ	PHA	SE C	POLES		CCT		
1			9600 1	080						REC- ELECTRICAL ROOM	2		
3	SUB-PANEL: 'SW-HOUSE'	100/3			9600	600			20/1	LIGHTING CONTROLLER	4		
5							9600	0	20/1	EXISTING	6		
7			3840	175					20/1	LTG FIXTURE TYPE 'A'	8		
9	ROOFTOP UNIT	40/3			3840	175			20/1	LTG- FIXTURE TYPE 'B'	10		
11							3840	540	20/1	LTG- FIXTURE TYPE 'C'	12		
13	EXISTING	20/1	0	0					20/1	EXISTING	14		
15	EXISTING	20/1			0	0			20/1	EXISTING	16		
17	EXISTING	20/1					0	0	20/1	EXISTING	18		
19	EXISTING	20/1	0	0					20/1	EXISTING	20		
21	EXISTING	20/1			0	0			20/1	EXISTING	22		
23	EXISTING	20/1					0	0	20/1	EXISTING	24		
25	EXISTING	20/1	0	0					20/1	EXISTING	26		
27	EXISTING	20/1			0	0			20/1	EXISTING	28		
29	EXISTING	20/1					0	0	20/1	EXISTING	30		
	TOTAL VA PER	PHASE	14,6	95	14,3	215	13	,980	TOTA	L VA THIS PANEL	42,890		

EXPIRES: 11/30/09

() BUILDING ENGINEERING M SYSTEMS, LLC

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REVISIONS SSUE FOR PERMIT 2.06.09

ILLINOIS DEPARTMENT OF TRANSPORTATION FAU ROUTES 1472 & 3569 VILLAGE OF RIVERSIDE RAILWAY/WATER TOWER CAMPUS RESTORATION PROJECT

TOTAL PANEL LOAD: 42.9 kVA, 119.1 AMPS

ELECTRICAL NOTES, RISER & SCHEDULES

SCALE: AS NOTED DATE: FEBRUARY 6, 2009 DRAWN BY: CHECKED BY: