

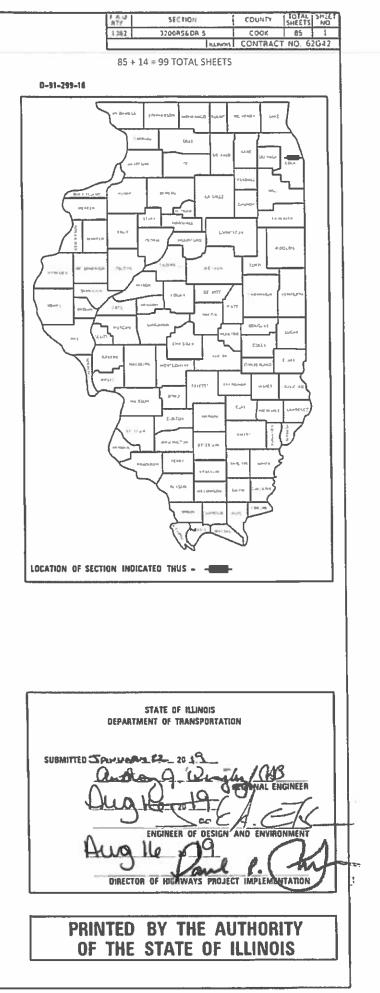
CONTRACT NO. 62G42

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REV. 8/7/19



INDEX OF SHEETS

RESURFACING (TS-07)

DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY

85

STATE HIGHWAY STANDARDS

		STANDARD NO.	DESCRIPTION	6.	UNLESS OTHER CONDI APPROVED IN WRITING
<u>SHEET NO</u> ,	DESCRIPTION	000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS		SPECIFICATIONS, OVE PROJECTS INVOLVING
1	TITLE SHEET	424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS		PATCHING.
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES	424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS	7.	IT SHALL BE THE CO
3 - 7	SUMMARY OF QUANTITIES	424021-05	DEPRESSED CORNER FOR SIDEWALKS		CONDITIONS EXISTING
8 - 8	TYPICAL SECTIONS	442101-09	CLASS B PATCHES	8.	DO NOT SCALE PLANS
9	SCHEDULE OF QUANTITIES	442201-03	CLASS C AND D PATCHES	9.	THE CONTRACTOR SHA
10	ROADWAY AND PAVEMENT MARKING PLANS			10.	ALL PAVEMENT PATCH
11 - 14	PROPOSED SIDEWALK RAMP DETAILS	602001-02	CATCH BASIN TYPE A		ENGINEER.
15 - 18	STAGES OF CONSTRUCTION AND TRAFFIC CONTROL	602401-06	PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER	11.	DRAINAGE ADJUSTMEN BY THE ENGINEER.
19	EROSION AND SEDIMENT CONTROL	602402-02	PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER	10	
20 - 27	DRAINAGE AND UTILITIES SHEETS	602406-10	PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER	12.	FOR FRAMES AND LID UNLESS OTHERWISE S
28 - 32	PROPOSED STRUCTURAL DETAILS	602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP	13.	WHEN MILLED PAVEME
32A	SOIL BORINGS	604001-04	FRAMES AND LIDS TYPE 1		BETWEEN PASSES OF THE SPEED LIMIT IS
33 - 69	EXISTING SOO RAILROAD BRIDGE DETAILS	604051-04	FRAME AND GRATE TYPE 11		WITH WRITTEN APPRO OF 3 INCHES MAY BE
70 - 71	DETECTOR LOOP REPLACEMENT PLANS	604086-03	FRAME AND GRATE TYPE 23	14.	BUTT JOINTS WILL B
71A - 71J	TEMPORARY TRAFFIC SIGNAL DESIGN PLANS	606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER		MEETS EXISTING PAV DETAILS" SHEET INCL
71K	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER (BD-07)	701101-05	OFF-RD OPERATIONS, MULTILANE,15' (4.5 m) TO 24'' (600 mm) FROM PAVEMENT EDGE	15.	THE ENGINEER SHALL
72	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS		ENGINEER AT CORY.JL TO PLACEMENT OF PE
73	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY	16	BEFORE BEGINNING AN
74	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)			10.	FUTURE REFERENCE, A
75	BUTT JOINT AND HMA TAPER DETAILS (BD-32)	701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS \leq 40 MPH		STRIPING. EXACT LC
76	HMA TAPER AT EDGE OF PCC PAVEMENT (BD-33)	701606-10	URBAN SINGLE LANE CLOSURE MULTILANE, 2W WITH		THE ENGINEER.
77	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)	701611-01	MOUNTABLE MEDIAN URBAN HALF ROAD CLOSURE MULTILANE, 2W WITH	17.	ANY PAVEMENT MARKI MILLING AND RESURF REPLACED AND PAID
78	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS	701701-10	MOUNTABLE MEDIAN URBAN LANE CLOSURE, MULTILANE INTERSECTION	18.	PAVEMENT MARKING T
	(SNOW-PLOW RESISTANT) (TC-11)	701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE		ON ALL FINAL SURFA
79	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)	701901-08	TRAFFIC CONTROL DEVICES	19.	THE CONTRACTOR SHA CONSTRUCTION.
80	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)			20.	LOCATION OF COMBIN
81	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)	704001-08	TEMPORARY CONCRETE BARRIER		LOR COMBINATION CU DETERMINED IN THE
82	ARTERIAL ROAD INFORMATION SIGN (TC-22)	814001-03	HANDHOLES	21.	CONTACT THE IDOT R
83	DRIVEWAY ENTRANCE SIGNING (TC-26)	814006-02	DOUBLE HANDHOLES		PRIOR TO BEGINNING
84	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAIL, SHEET 2 OF 7 (TS-05)		GENERAL NOTES	22.	BEFORE BEGINNING AN

GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF SCHILLER PARK.
- 3. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- 4. THE CONTRACTOR SHALL CONTACT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

GENERAL NOTES (CONTINUED..)

USER NAME = paraynoal	DESIGNED -	REVISED - 🚹 ALP 4/11/19		IAV	RENCE A	VF (F O	E MANNHEIM B	RD. – ROSE ST.)	F.A.U. BTE	SECTION	COUNTY TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS			•	TES AND INDEX	•	1362	3200RS&DR-5	СООК 85	2
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PLOT DATE = 7/29/2019	DATE -	REVISED -		SCALE: 1"= 50"	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED	AID PROJECT	

6. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND ING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT VERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION NG DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D

> CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND ING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

ANS FOR CONSTRUCTION DIMENSIONS.

SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY RING THE CONSTRUCTION OF THIS PROJECT.

TCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE

MENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD

LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID SPECIFIED IN THE PLANS.

MENT IS OPEN TO TRAFFIC. THE MAXIMUM GRADE DIFFERENTIAL OF THE MILLING MACHINE SHALL NOT EXCEED 11/2 INCHES WHERE IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. ROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.

BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING AVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER NCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

LL CONTACT CORY JUCIUS, ARTERIAL TRAFFIC FIELD JUCIUS@ILLINOIS.GOV A MINIMUM OF 2 WEEKS PRIOR PERMANENT PAVEMENT MARKINGS.

ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE S) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY

RKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY RFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE D FOR IN KIND.

TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS FACES.

SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING

BINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT CURB AND GUTTER (THE TYPE SPECIFIED IN THE PLANS)] WILL BE E FIELD BY THE ENGINEER.

ROADSIDE DEVELOPMENT UNIT AT 847-705-4171 AT LEAST 2 WEEKS NG LANDSCAPE AND FORESTRY WORK FOR LAYOUT.

ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR E. ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY

THE ENGINEER.

RESURFACING.

23. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, OR CATCH BASINS. THEY SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE SAME. THEY SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET SHALL BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT ROADSIDE DRAINAGE SYSTEM IS BUILT AND IN SERVICE.

24. THE ENGINEER SHALL REPORT CLEARANCES UNDER THE BRIDGES BEFORE AND AFTER

25. ANY GEOTECHNICAL INFORMATION REQUIRED FOR THE DESIGN OF THE TEMPORARY SOIL RETENTION SYSTEM (TSRS) IS INCLUDED IN THE COST OF THE TRS.

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ļ	SUMMARY OF QUANTITIES	I	1	0005	COI	NSTRUCTI	ON TYPE C				SUMMA	RY OF QUANTITIES	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES							CODE NO		ITEM	UNIT
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	1	1						40601005	HOT-MIX ASP	HALT REPLACEMENT OVER PATCHES	TON
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	5	5						42000060	WELDED WIRE	REINFORCEMENT	50 YI
20200100	EARTH EXCAVATION	CU YD	30	30						42001 300	PROTECTIVE	COAT	50 YI
20800150	TRENCH BACKFILL	CU YD	1975	1975						42300400	PORTLAND CE	MENT CONCRETE DRIVEWAY	50 Y
											PAVEMENT,	B INCH	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	73	73									
										42400200	PORTLAND CE	MENT CONCRETE SIDEWALK 5 INCH	SO F
25200110	SODDING, SALT TOLERANT	SO YD	73	73									
										* 42400800	DETECTABLE	WARNINGS	SO F
25200200	SUPPLEMENTAL WATERING	UNIT	0. 49	0. 49									
										44000159	HOT-MIX ASP	HALT SURFACE REMOVAL, 2 1/2"	50 Y
28000510	INLET FILTERS	EACH	25	25									
										44000200	DRIVEWAY PA	VEMENT REMOVAL	SO Y
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	8611	8611									
										44000600	SIDEWALK REI	MOVAL	SO F
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	39	39									
	FLANGEWAYS									44002216	HOT-MIX ASP	HALT REMOVAL OVER PATCHES, 4"	SO Y
40600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	524	524						44200956	CLASS B PAT	CHES, TYPE II, 9 INCH	SO Y
	METHOD), IL-4.75, N50												
										44200964	CLASS B PAT	CHES, TYPE IV, 9 INCH	SO Y
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	101	101									
	JOINT									44201298	DOWEL BARS	1 1/4"	EACH
40600985	PORTLAND CEMENT CONCRETE SURFACE	SO YD	48	48						44201753	CLASS D PAT	CHES, TYPE II, 9 INCH	SO Y
	REMOVAL - BUTT JOINT												
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۲D	299	299												
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44201757 CL	ASS D PATCHES, TYPE III, 9 INCH	SO YD	137	137						550A0190	STORM SEWERS	5. CLASS A. TYPE 1 48"	FOOT
44201759 CL	ASS D PATCHES, TYPE IV, 9 INCH	SO YD	1186	1186						550A0340	STORM SEWERS	S, CLASS A, TYPE 2 12"	FOOT
44213000 PA	ATCHING REINFORCEMENT	SO YD	652	652						550A0480	STORM SEWERS	5. CLASS A. TYPE 2 48"	F001
44213200 SA	AW CUTS	FOOT	2867	2867						550A4000	STORM SEWERS	5, CLASS A, TYPE 1	F001
											EOUIVALENT	ROUND-SIZE 18"	
44213204 TI	IE BARS 3/4"	EACH	461	461									
										550A4800	STORM SEWERS	5, CLASS A, TYPE 2	F 001
50102400 CO	DNCRETE REMOVAL	CU YD	9	9							EQUIVALENT	ROUND-SIZE 18"	
50200100 ST	RUCTURE EXCAVATION	CU YD	3	3						55100400	STORM SEWER	REMOVAL 10"	F 001
50300225 CO	DNCRETE STRUCTURES	CU YD	9	9						55100500	STORM SEWER	REMOVAL 12"	F001
50300300 PR	ROTECTIVE COAT	SO YD	51	51						55100700	STORM SEWER	REMOVAL 15"	F 001
50800205 RE	INFORCEMENT BARS, EPOXY COATED	POUND	660	660						55100900	STORM SEWER	REMOVAL 18"	F 001
52200020 TE	EMPORARY SOIL RETENTION SYSTEM	SO FT	422	422						55101100	STORM SEWER	REMOVAL 21"	F001
													_
54248510 CO	DNCRETE COLLAR	CU YD	7	7						55101400	STORM SEWER	REMOVAL 30"	F 001
550A0050 ST	TORM SEWERS, CLASS A, TYPE 1 12"	FOOT	43	43						60200105	CATCH BASIN	5, TYPE A, 4'-DIAMETER, TYPE	EACH
											1 FRAME, OPI	EN LID	
550A0160 ST	TORM SEWERS, CLASS A, TYPE 1 36"	FOOT	30	30									
										60203805	CATCH BASIN	5, TYPE A, 5'-DIAMETER, TYPE	EACH
550A0180 ST	TORM SEWERS, CLASS A, TYPE 1 42"	FOOT	246	246							1 FRAME, OPI	IN LID	
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	SUMMARY OF QUANTITIES		4	0005						-		SUMMA	RY OF QUANTITIES	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES								CODE NO		ITEM	UNIT
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1	EACH	4	4							60406100	FRAMES AND L	IDS. TYPE 1. CLOSED LID	EACH
	FRAME, CLOSED LID													
											60500040	REMOVING MAN	HOLES	EACH
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1	EACH	3	3										
	FRAME, CLOSED LID										60500050	REMOVING CAT	CH BASINS	EACH
60223700	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1	EACH	1	1							60500060	REMOVING INL	ETS	EACH
	FRAME, OPEN LID									*	66900200	NON-SPECIAL	WASTE DISPOSAL	CU 11
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	7	7						*	66900530	SOIL DISPOSA	AL ANALYSIS	EACH
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	6	6							66901000	BACKFILL PLL	JGS	CU YI
60236825	INLETS, TYPE A, TYPE 11V FRAME AND	EACH	1	1						*	66901001	REGULATED SL	JESTANCES PRE-CONSTRUCTION	LSUM
	GRATE											PLAN		
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1										
										*	66901002	ON-SITE MONI	TORING OF REGULATED	CAL D
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1								SUBSTANCES		
60262700	INLETS TO BE RECONSTRUCTED	EACH	1	1						*	66901003	REGULATED SL	IBSTANCES FINAL CONSTRUCTION	LSUM
												REPORT		
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	16	16										
											67000400	ENGINEER'S F	IELD OFFICE, TYPE A	CAL M
60404800	FRAMES AND GRATES, TYPE 11	EACH	1	1										
											67100100	MOBILIZATION	ı	L SUM
60404940	FRAMES AND GRATES, TYPE 23	EACH	2	2										
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	2						_	70107025	CHANGEABLE N	NESSAGE SIGN	CAL D
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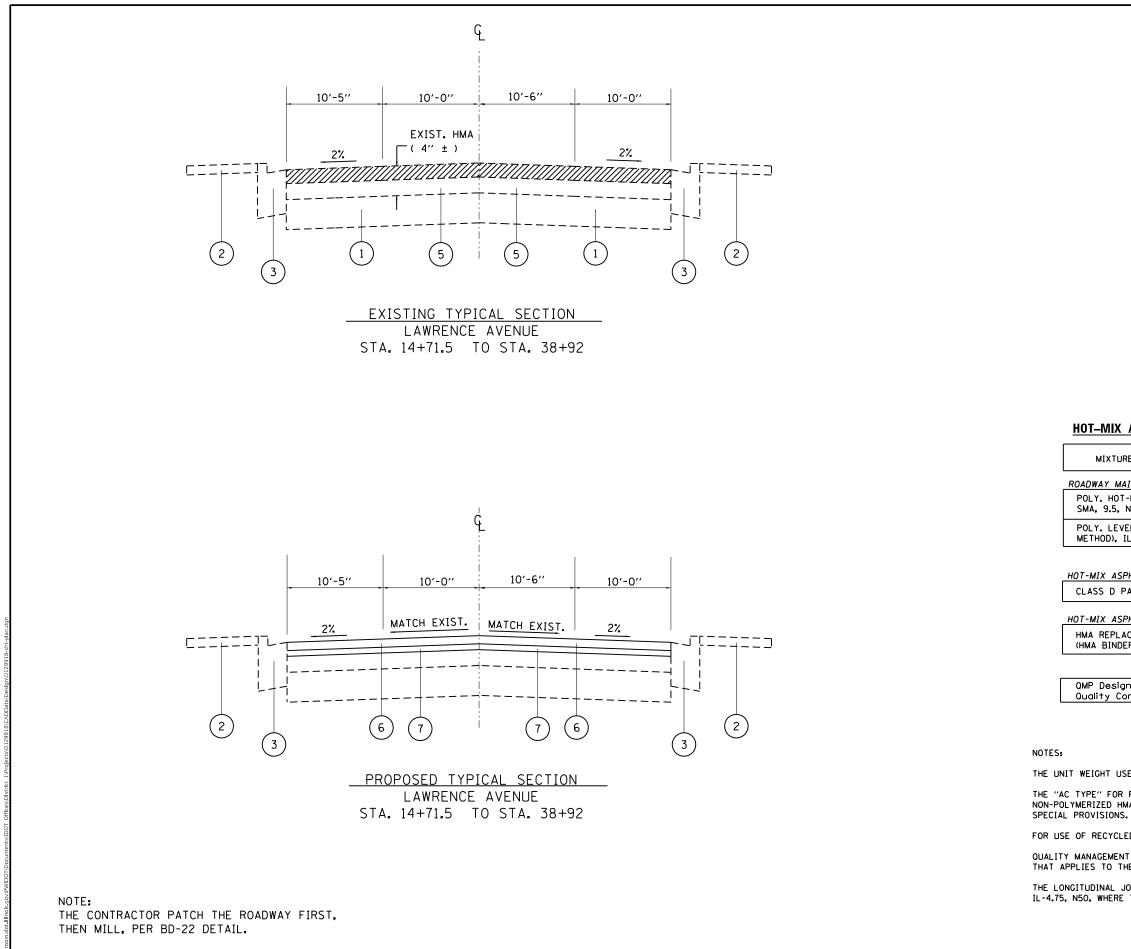
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REV. 8/7/19

	SUMMARY OF QUANTITIES				C0	NSTRUCTIO	ON TYPE C	ODE		CI 11.41.4 AI	RY OF QUANTITIES				CON	STRUCTION	TYPE CO	DE	
	SUMMART OF GUANTITIES		TOTAL	0005			Ι			JUMMAI		1		0005					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE					CODE NO		ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE					
									70400200	RELOCATE TEM	PORARY CONCRETE BARRIER	FOOT	1163	1163					
									70600260	IMPACT ATTEN	UATORS, TEMPORARY (FULLY	EACH	2	2					
										REDIRECTIVE.	NARROW), TEST LEVEL 3								
									70600332	IMPACT ATTEN	UATORS, RELOCATE (FULLY	EACH	2	2					
										REDIRECTIVE.	NARROW), TEST LEVEL 3								
									* 78000200	THERMOPLASTIC	PAVEMENT MARKING - LINE 4"	FOOT	5116	5116					
									* 78000400	THERMOPLASTIC	PAVEMENT MARKING - LINE 6"	FOOT	262	262					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	4960	4960					* 78000600	THERMOPLASTIC	PAVEMENT MARKING - LINE 12"	FOOT	145	145					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	1654	1654					* 78000650	THERMOPLASTIC	PAVEMENT MARKING - LINE 24"	FOOT	99	99					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5116	5116					* 78100100	RAISED REFLEC	TIVE PAVEMENT MARKER	EACH	224	224					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	262	262					78100200	TEMPORARY RA	ISED REFLECTIVE PAVEMENT	EACH	224	224					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	145	145						MARKER									
									* 78200011	BARRIER WALL	REFLECTORS, TYPE C	EACH	100	100					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	99	99					78300200	RAISED REFLEC	TIVE PAVEMENT MARKER REMOVAL	EACH	224	224					
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1240	1240															
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	2780	2780					* 85000200	INSTALLATION	F EXISTING TRAFFIC SIGNAL	EACH	1						
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1245	1245					* 88600600	DETECTOR LOOF		FOOT	496	496					
FILE NAME =		DESIGNED -		REVISED		 T				* = SP	ECIALTY ITEM			(ST)	F.A.U. RTE.	SECTIO	N		TAL SHEET
pw:\\planroom.dotJillnoi	PLDT SCALE = 100,0000 1/ In.	DRAWN _ CHECKED - DATE -		REVISED REVISED REVISED			D		ILLINOIS RANSPORTA		SCALE: SHEET NO. OF	OF QUANT	ITIES	0 STA.	1362	3200RS&D	R-5	COOK E	85 6

		SLIMM	ARY OF QUANTITIES		1	1	CONSTRUC	TION TYPE (JUDE				C		
		501411477	ART OF QUANTITIES		_	0005							SUMMA	RY OF QUANTITIES	
со	DE NO		ITEM	UNIT	TOTAL QUANTITIES							CODE NO		ITEM	UNI
89	000100	TEMPORARY TR	AFFIC SIGNAL INSTALLATION	EACH	1	1						x 70 30005	TEMPORARY PA	VEMENT MARKING REMOVAL	SO F
* 89	502376	REBUILD EXIST	ING HANDHOLE	EACH	1	1						x7040125	PINNING TEMP	PORARY CONCRETE BARRIER	EACI
* 89	502378	REBUILD EXIST	ING HANDHOLE TO HEAVY-DUTY	EACH	1	1						Z0004562	COMBINATION	CONCRETE CURB AND GUTTER	F 001
		HANDHOLE											REMOVAL AND	REPLACEMENT	
xo	320050	CONSTRUCTION	LAYOUT (SPECIAL)	L SUM	1	1					-	20007122	REMOVING AND) RE-ERECTING EXISTING	FOOT
					-	-					-		RAILING		
	327979		KING REMOVAL - GRINDING	SO FT	927	927					-				
	521919	FAVEMENT MAR	KING REMOVAL - GRINDING	50 F1	321	921					*	70010700	000000000000000000000000000000000000000		
											*	Z0018500	DRAINAGE STR	RUCTURES TO BE CLEANED	EACI
×o	327980		KING REMOVAL - WATER	SO FT	927	927					_				
		BLASTING									_	Z0030850	TEMPORARY IN	FORMATION SIGNING	50 F
X4	060004	POLYMERIZED H	OT-MIX ASPHALT SURFACE	TON	1259	1259						Z0033700	LONGITUDINAL	. JOINT SEALANT	F 001
		COURSE, STONE	MATRIX ASPHALT, 9.5, N80												
												Z0048665	RAILROAD PRO	DTECTIVE LIABILITY INSURANCE	LSU
X4	400100	PORTLAND CEM	ENT CONCRETE SURFACE	SO YD	108	108									
		REMOVAL (VAR	TABLE DEPTH)									Z0073510	TEMPORARY TR	RAFFIC SIGNAL TIMING	EAC
* ×5	537800	STORM SEWERS	TO BE CLEANED 12"	FOOT	825	825					ø	Z0076600	TRAINEES		HOUF
	030310		IDS TO BE ADJUSTED (SPECIAL)	EACH	33	33					-	20076604		AINING PROGRAM GRADUATE	HOUF
	030310	FRAMES AND L	IDS TO BE ADJUSTED (SPECIAL)	EACH								20010004	TRAINEES TRA		
×6(062400	CONCRETE GUT	TER (SPECIAL)	FOOT	15	15									
×7(010216	TRAFFIC CONT	ROL AND PROTECTION.	L SUM	1	1									
		(SPECIAL)													
													* = 100	X STATE	
											-		Ø = 00)42	
	NAME =	and BHIDOT Design of the		DESIGNED -		REVISED REVISED	-			TATE OF				LAWRENCE AVE. (E. OF	MANNHI
pwertp		s.gov:PWIDOT\Documents\IDOT 01		CHECKED -		_	-	- т				ANSPORTA	TION	SUMMARY	
				DATE -			-	1						SCALE: SHEET NO. OF	SHEETS

	CONSTRUCTION TYPE CODE												
IT	TOTAL QUANTITIES												
FT	2521	2521											
Сн	306	306											
от	1 36 1	1361											
от	253	253											
Сн	55	55											
FT	51.4	51.4											
от	7265	7265											
	.205	1205											
UM	1	1											
Сн	3	3											
UR	500	500											
UR	500	500											
	RD. – ROSE	ST.)		F.A.U. RTE. 1362	SECTI 3200RS&			DTAL SHEET EETS NO. 85 7					
JANTI STA.) STA.			AD DIST. NO. 1 IL		CONTRACT N						



USER NAME = paraynoal	DESIGNED -	REVISED -		LAWRENCE AVE. (E. OF MANNHEIM RD. – ROSE ST.)	F.A.U. BTE	SECTION	COUNTY TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		1362	3200RS&DR-5	СООК 85 8
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS.)			CONTRACT NO. 62G42
PLOT DATE = 7/25/2019	DATE -	REVISED -		SCALE: 1"= 50" SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. A	ND PROJECT

LEGEND

- 1 EXIST. PCC PAVEMENT, ± 9"
- (2) EXIST. PCC SIDEWALK, 5" (TYP.)
- (3) EXIST. COMB. CONCRETE CURB AND GUTTER
- (4) PROP. HMA SURFACE REMOVAL, 2 1/2"
- (5) EXIST. HMA AFTER MILLING, $\pm 1 \frac{3}{4}$ "
- (6) PROP. POLY. HMA SURFACE COURSE, SMA, 9.5, N80 1 3/4"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	OUALITY MANAGEMENT PROGRAM (QMP)
ROADWAY MAINLINE AND SHOULDER RESURFACIN	IG:	
POLY. HOT-MIX ASPHALT SURFACE COURSE. SMA, 9.5, N80 (IL 9.5 mm)	3.5% AT 80 GYR.	OC/OA
POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% AT 50 GYR.	OC/OA
HOT-MIX ASPHALT PATCHING:		

ASTHALT TATCHING:

CLASS D PATCHES (HMA BINDER IL-19 mm) 4% AT 70 GYR. QC/QA

HOT-MIX ASPHALT REPLACEMENT OVER PATCHES:

	PLACEMENT OVER PATCHES 4% AT 70 GYR.	A0/30
--	--------------------------------------	-------

OMP Designation: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP); Pay for Performance (PFP)

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SO YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (OMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, WHERE THE SURFACE JOINT WILL BE LOCATED.

TREE PRUNNING SCHEDULE

TREE PRUNI	NG (1 TO 10 INC	h dia	METER)
	OFFSET		
STATION	DIRECTION	QTY	UNIT
37+20	LT	1	EACH
	TOTAL =	1	EACH

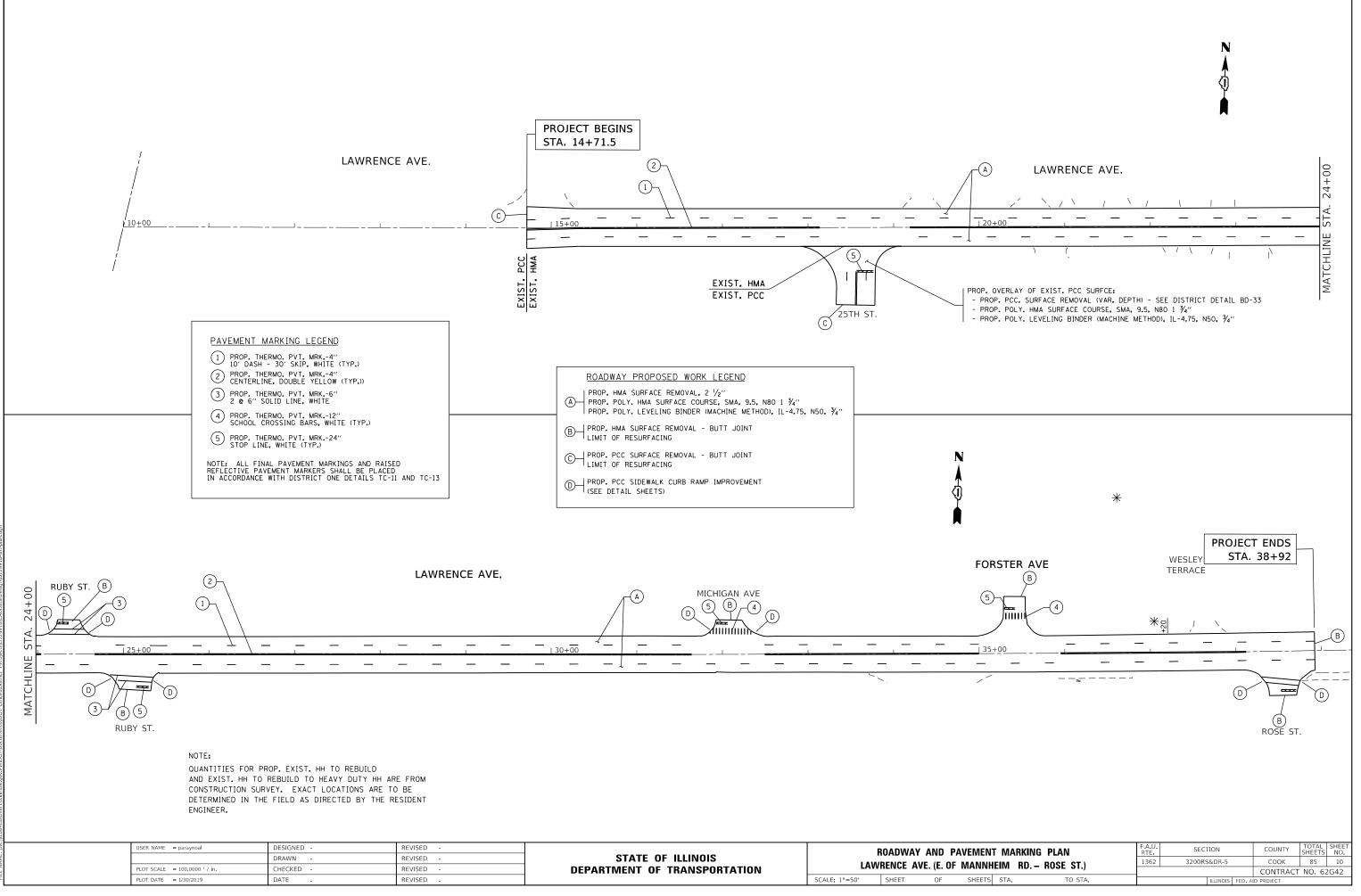
TREE PRUNIN	IG (OVER 10 INC	H DI	AMETER)
	OFFSET		
STATION	DIRECTION	QTY	UNIT
30+80	LT	1	EACH
33+10	LT	1	EACH
33+40	LT	1	EACH
33+90	LT	1	EACH
34+30	LT	1	EACH
	TOTAL =	5	EACH

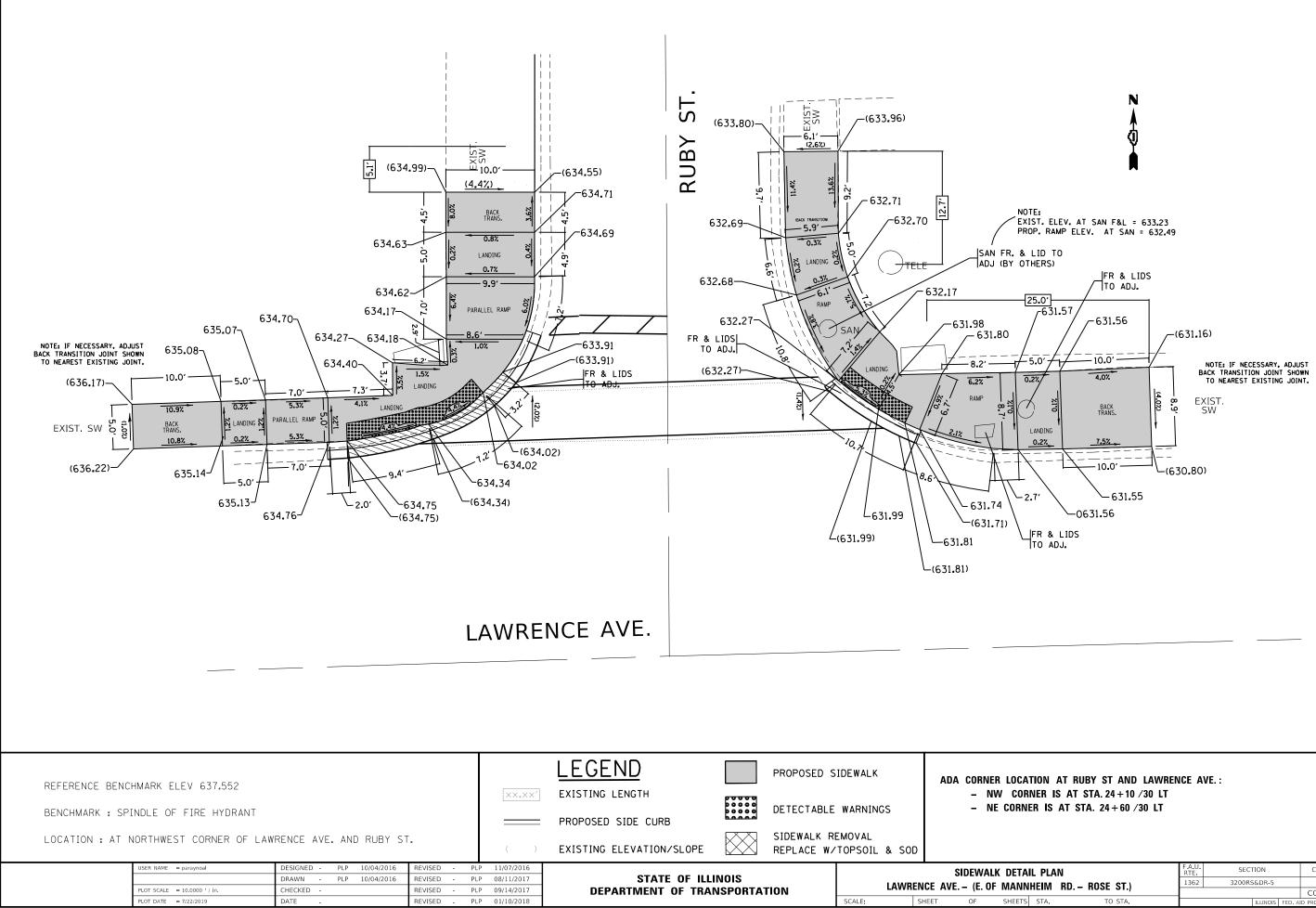
<u>NOTE:</u>

FOR OTHER LAYOUT DETAILS, INCLUDING OFFSET DISTANCES, REFER TO NOTE ITEM NO. 21

UNDER GENERAL NOTES ON THE INDEX SHEET.

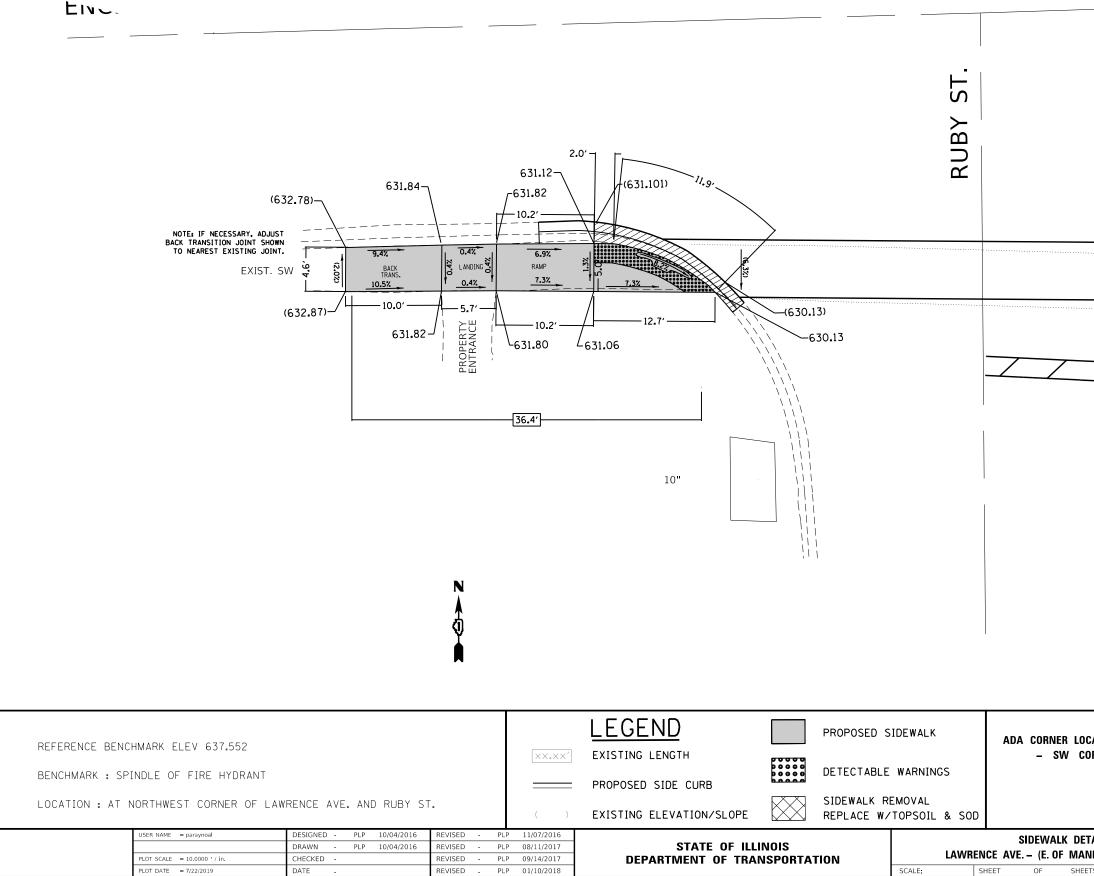
USER NAME = paraynoal	DESIGNED -	REVISED -		LAV	VRENCE A	VE. (E. OF	MANNHEIM RD. –	ROSE ST.)	F.A.U. RTE	SECTION	COUNTY	TOTAL S SHEETS	HEET NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS			•		,	1362	3200RS&DR-5	соок	85	9
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		3	CHEDULE	ES OF QUANTITIES				CONTRAC	r NO. 620	42
PLOT DATE = 1/30/2019	DATE -	REVISED -		SCALE: 1"= 50"	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		





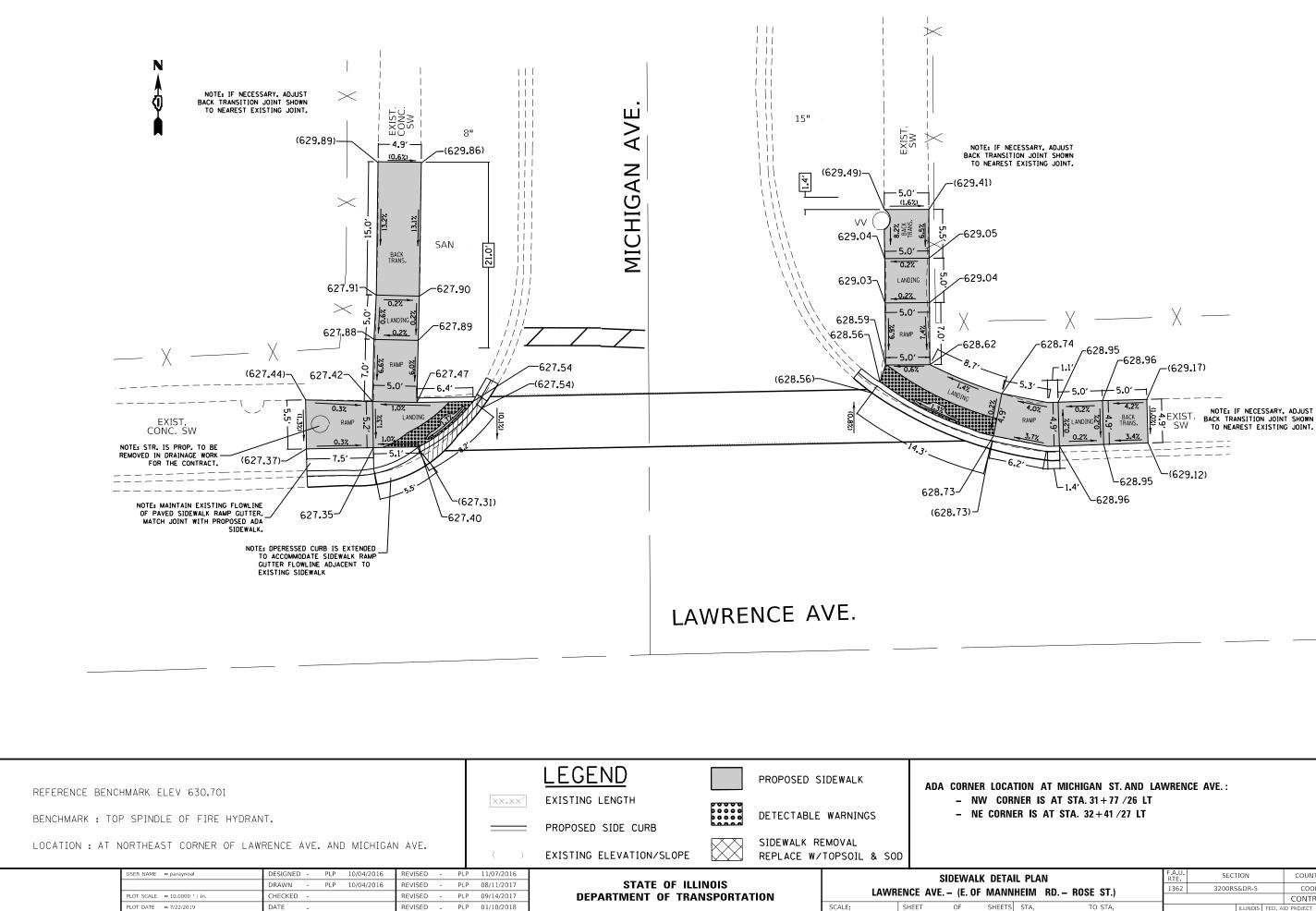
TAIL PLAN	F.A.U. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
NNHEIM RD. – ROSE ST.)	1362	3200RS	&DR-5		соок	85	11
NINHEIIVI RD RUSE SI.)					CONTRACT	NO. 62	2G42
TS STA. TO STA.			ILLINOIS	FED. AI	ID PROJECT		



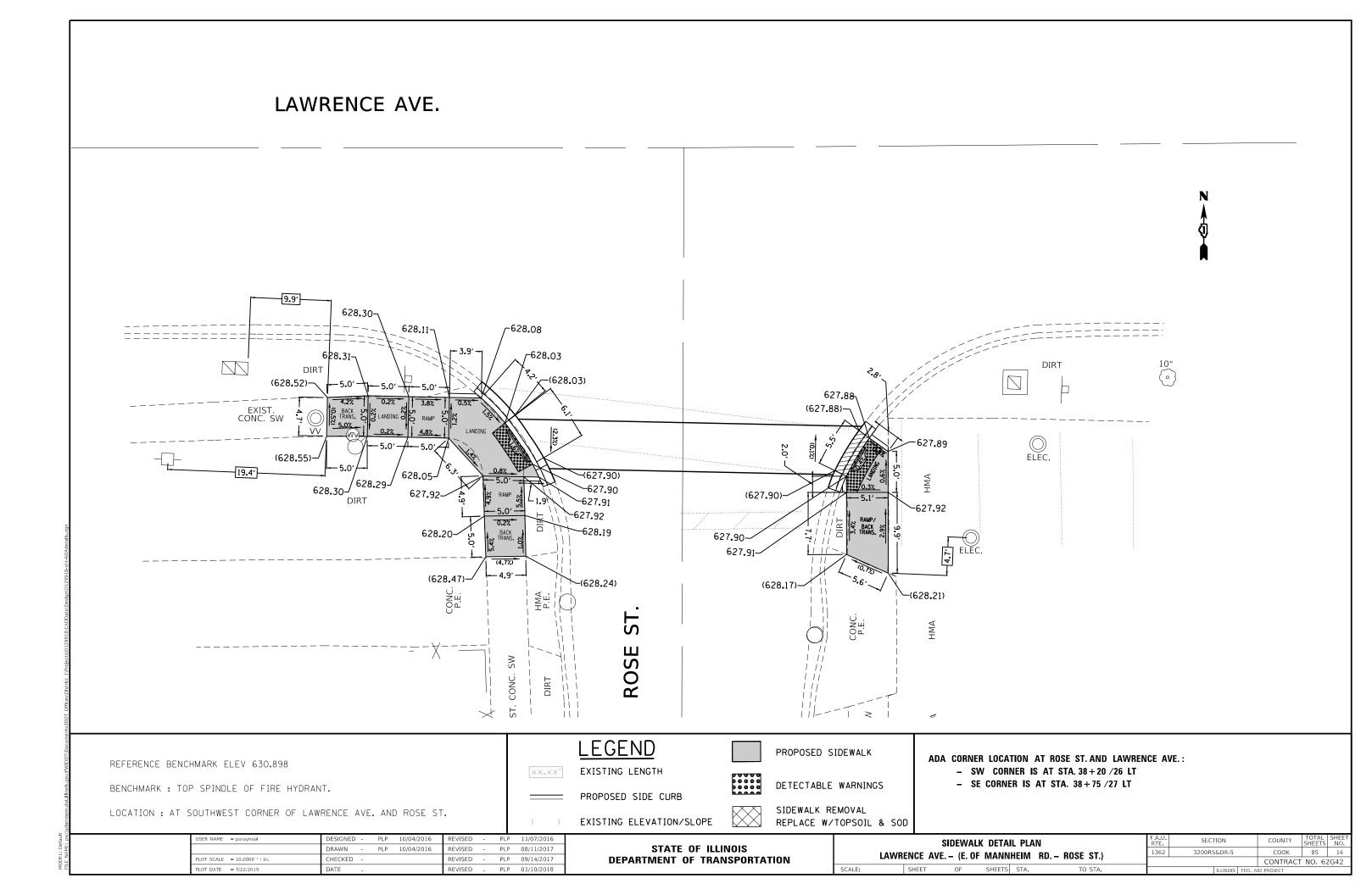


ADA CORNER LOCATION AT RUBY ST AND LAWRENCE AVE.: - SW CORNER IS AT STA. 24+80 /28 RT

FAIL PLAN	F.A.U. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.			
NNHEIM RD. – ROSE ST.)		3200RS	&DR-5		COOK 85				
WITCHW AD NOSE ST./					CONTRACT	NO. 62	2G42		
TS STA. TO STA.			ILLINOIS	FED. A	ID PROJECT				



F.A.U. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
1362	3200RS	&DR-5		СООК	85	13
				CONTRACT	NO. 62	2G42
		ILLINOIS	FED. AI	D PROJECT		
	RTE.	RTE.	RTE. 3200RS&DR-5	RTE. SECTION 1362 3200RS&DR-5	RTE. Section Count 1362 3200RS&DR-5 COOK	RTE. SECTION COUNT SHEETS 1362 3200RS&DR-5 COOK 85 CONTRACT NO. 62 CONTRACT NO. 62 62



MAINTENANCE OF TRAFFIC NOTES

- THE STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING THE EXECUTION OF THIS CONTRACT. ANY CHANGES TO THE PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE SPECIAL PROVISIONS, STATE STANDARDS, STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS.
- ACCESS TO PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. WHEN A DRIVEWAY MUST BE CLOSED TEMPORARILY FOR CONSTRUCTION OF THE DRIVEWAY APRON, PROPERTIES WITH MULTIPLE ENTRANCES SHALL HAVE ONLY ONE ENTRANCE CLOSED AT A TIME.
- ALL EXISTING SIGNS WITHIN THE LIMITS OF THE MAINTENANCE OF TRAFFIC WHICH ARE OBSCURED BY OR OTHERWISE INTERFERED WITH BY THE CONSTRUCTION OPERATIONS AND MAINTENANCE OF TRAFFIC, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR UNLESS SPECIFIED IN THE PLANS OR WHEN DIRECTED BY THE ENGINEER. THE EXISTING FLASHING STOP LIGHTS, STOP AHEAD SIGNS, AND ROUTE SIGNS SHALL BE MAINTAINED/RELOCATED DURING STAGING. THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

CONSTRUCTION SEQUENCE

STAGE 1:

APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL AND PROTECTION FOR DAY-TIME LANE CLOSURES SHALL BE UTILIZED TO PERFORM THE WORK LISTED BELOW.

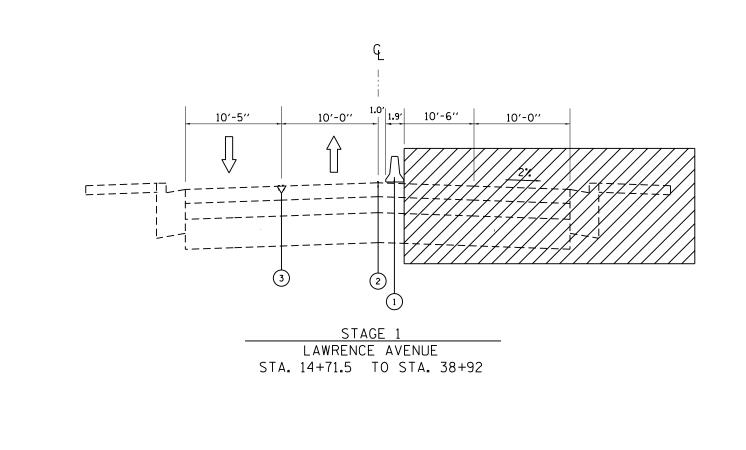
- RELOCATION OF UTILITIES

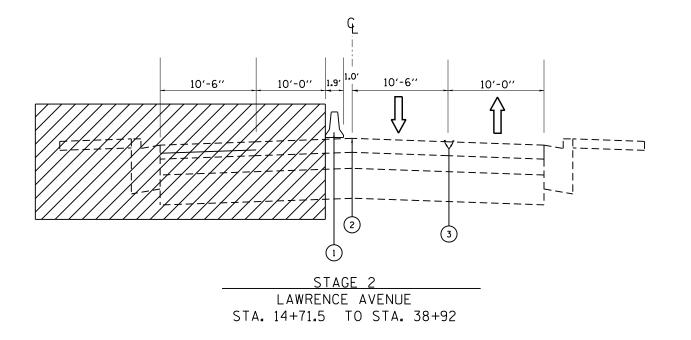
- CONSTRUCTION OF PROPOSED STORM SEWERS. SEE DRAINAGE AND UTILITY PLANS, AND ROADWAY PLANS FOR DETAILS.

STAGE 2:

- TRAVEL LANES ON LAWRENCE AVENUE SHALL BE SHIFTED TO THE NORTH WHILE MAINTAINING ONE LANE IN EACH DIRECTION.
- TRAVEL LANES THAT ARE THE SAME WIDTH AS THE EXISTING SHALL BE MAINTAINED AT ALL TIMES. EXISTING PAVEMENT MARKINGS CONFLICTING WITH THE PAVEMENT MARKING TAPE, TYPE IV FOR STAGE I SHALL BE REMOVED. THIS WORK SHALL BE PAID FOR AS "PAVEMENT MARKING REMOVAL - GRINDING" OR "PAVEMENT MARKING REMOVAL - WATER BLASTING". PROPOSED PAVEMENT MARKING TAPE, TYPE IV SHALL BE PLACED ACCORDING TO THE STAGE 2 MAINTENANCE OF TRAFFIC PLAN OR AS DIRECTED BY THE ENGINEER.

USER NAME = paraynoal	DESIGNED -	REVISED -			LAWRENCE AV	/F (F OF	F ΜΔΝΝΙ	HEIM	RD.– ROSE ST.)	F.A.U. BTE	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS			-				1362	3200RS&DR-5	соок	85	15
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		MAINTENEI	NCE UF	TRAFFIC	, (STAU	GE 1 AND 2)			CONTRAC [®]	T NO. 62	2G42
PLOT DATE = 7/22/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S STA.	TO STA.		ILLINOIS FED.	AID PROJECT		





USER NAME = paraynoal	DESIGNED -	REVISED -			LAWRENCE A		-		D. – ROSE ST.)	F.A.U.		SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS							RTE. 1362	3	200RS&DR-5	СООК	85	16
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		MAINTENE	NCE OF	IKAF	FIC (STAG	E 1 AND 2)		-		CONTRA	CT NO. 6	2G42
PLOT DATE = 7/22/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHE	EETS STA.	TO STA.			ILLINOIS FED.	AID PROJECT		

LEGEND

DIRECTION OF TRAFFIC

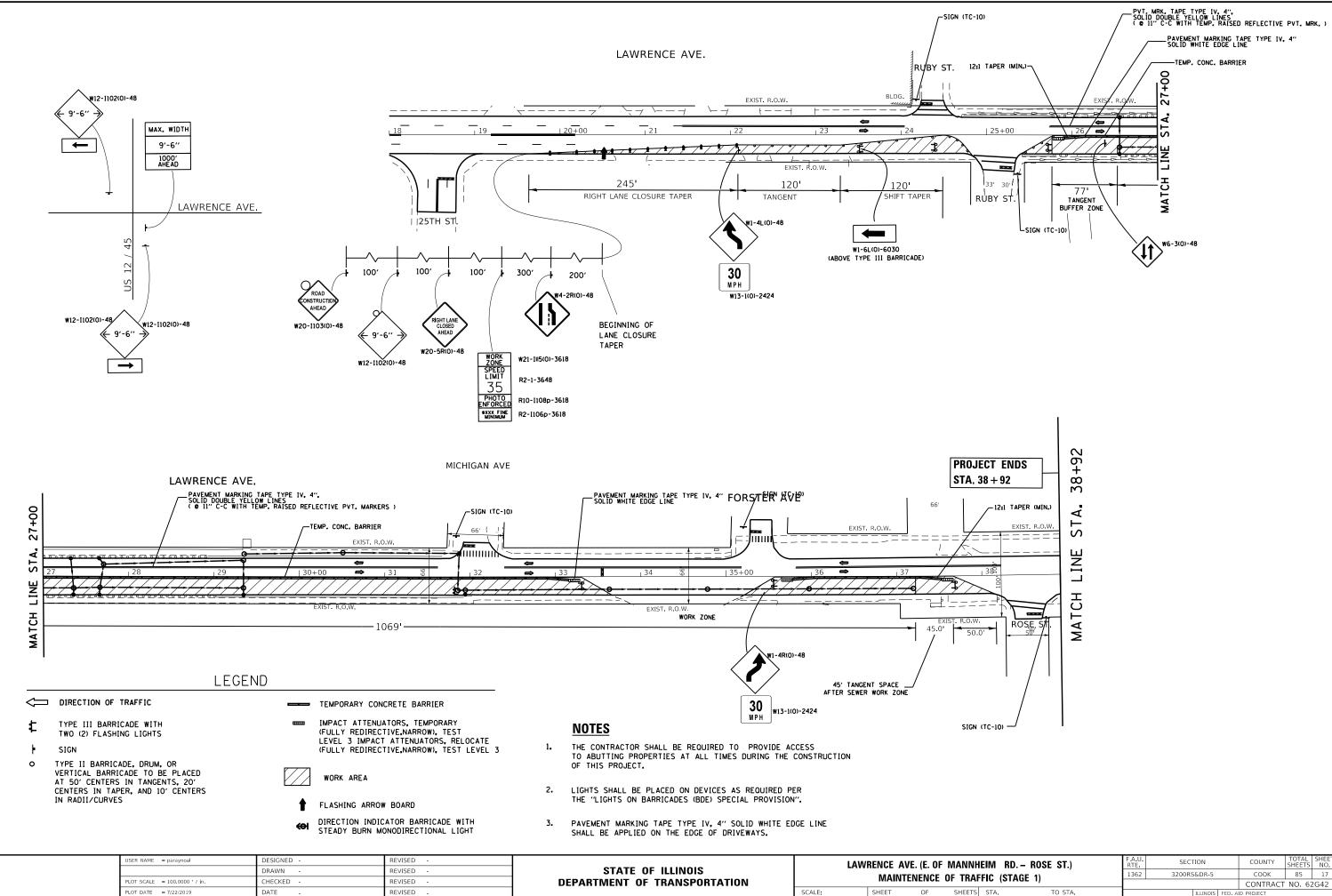
- WORK AREA
- (1)TEMPORARY CONCRETE BARRIER
- 2 PAVEMENT MARKING TAPE TYPE IV, 4", SOLID WHITE EDGE LINE

3

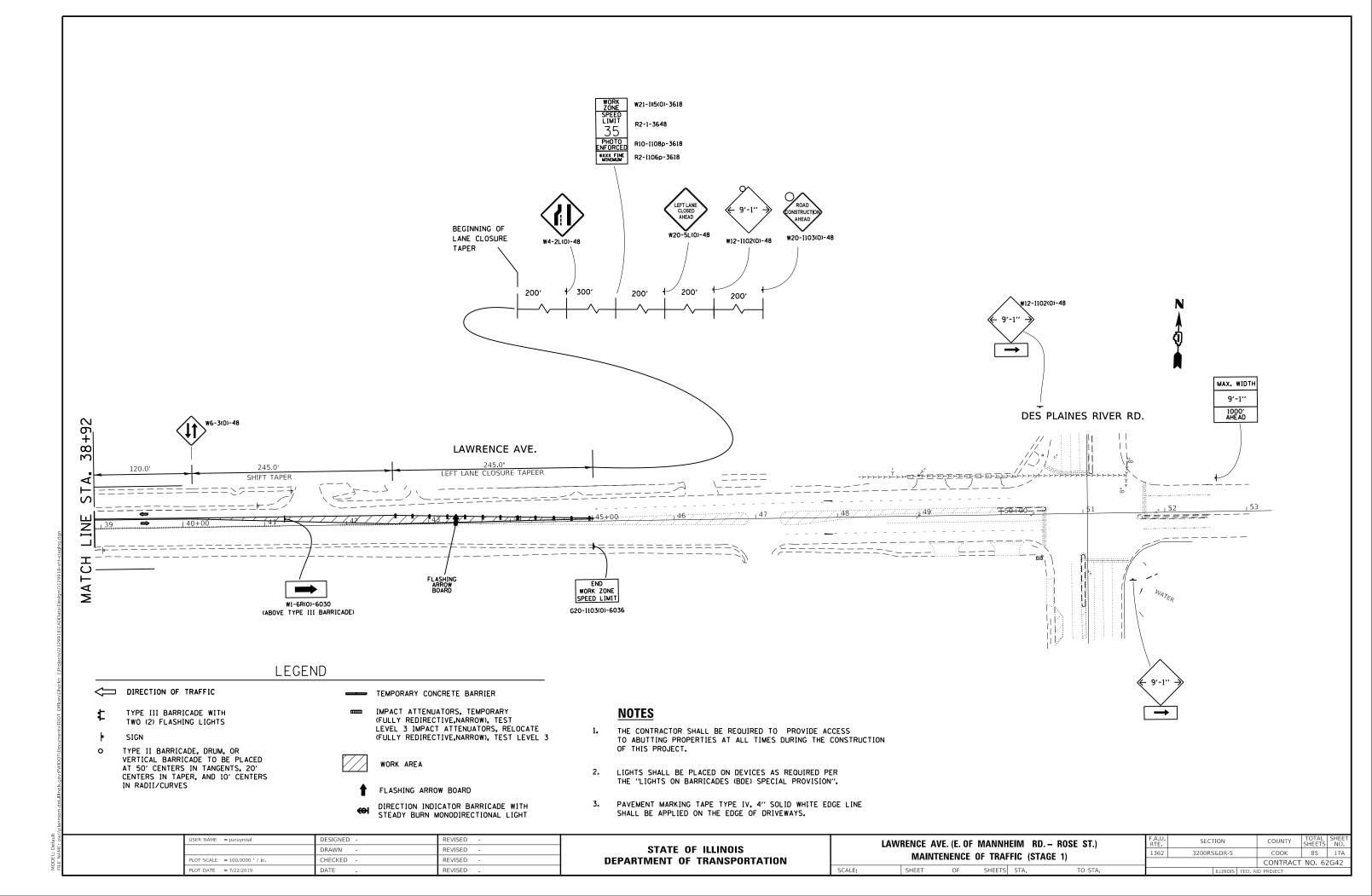
NOTES

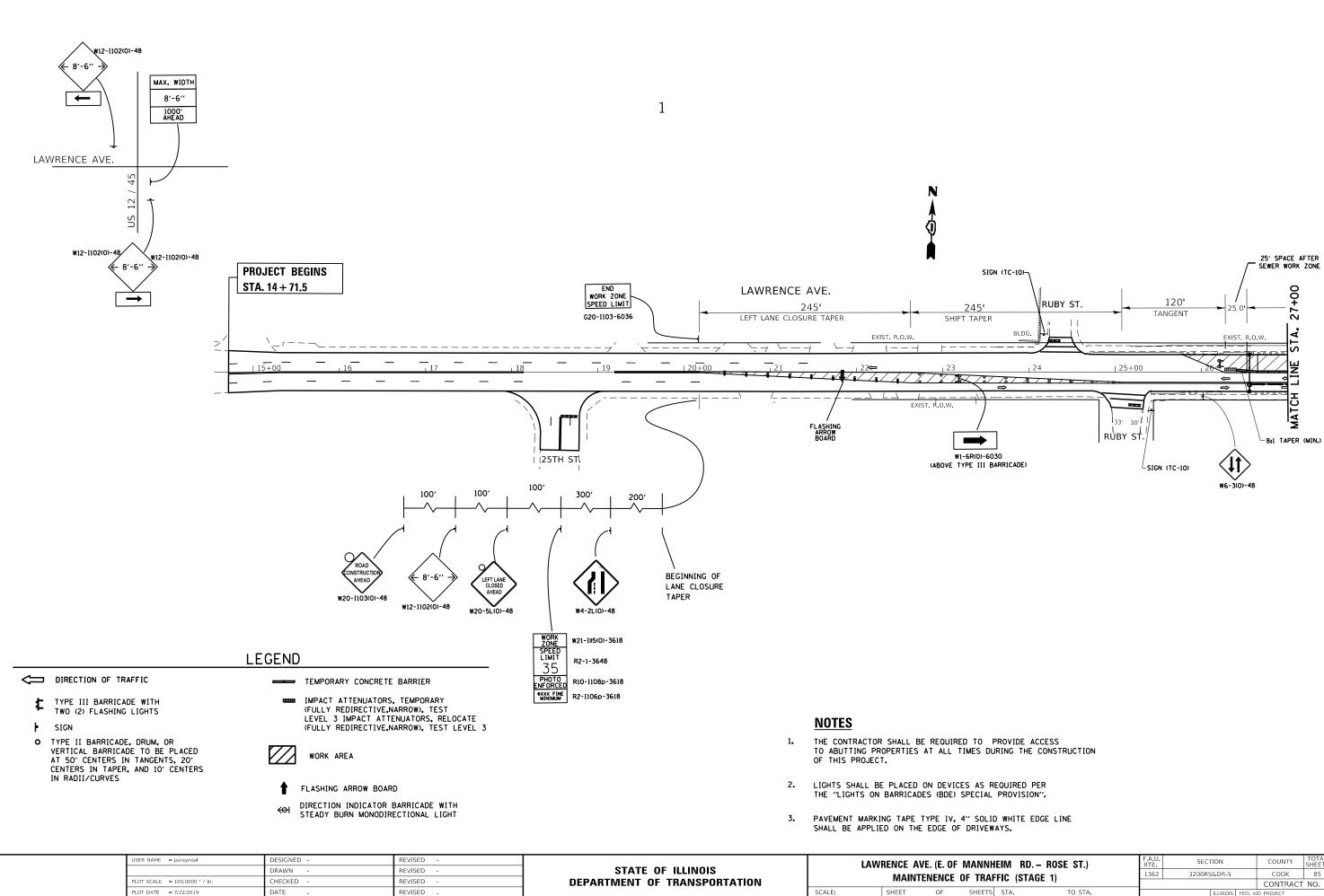
- 1. DURING STAGE I TRAFFIC CONTROL SHALL FOLLOW IDOT HIGHWAY STANDARD 701006 (OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE AS NEEDED.
- 2. TEMPORARY WEDGE SHALL BE PAID FOR AS TEMPORARY PAVEMENT (VARIABLE DEPTH). ITS REMOVAL SHALL BE PAID FOR AS PAVEMENT REMOVAL.
- 3. DURING STAGE I, TEMPORARY CONCRETE BARRIER SHALL BE PINNED FROM STA. 25+91 TO STA. 37+54 (LT).
- DURING STAGE II. TEMPORARY CONCRETE BARRIER SHALL BE PINNED FROM STA. 26+40 TO STA. 31+28 (RT).

PAVEMENT MARKING TAPE TYPE IV, 4", SOLID DOUBLE YELLOW LINES (@ 11" C-C WITH TEMP. RAISED REFLECTIVE PVT. MARKERS)



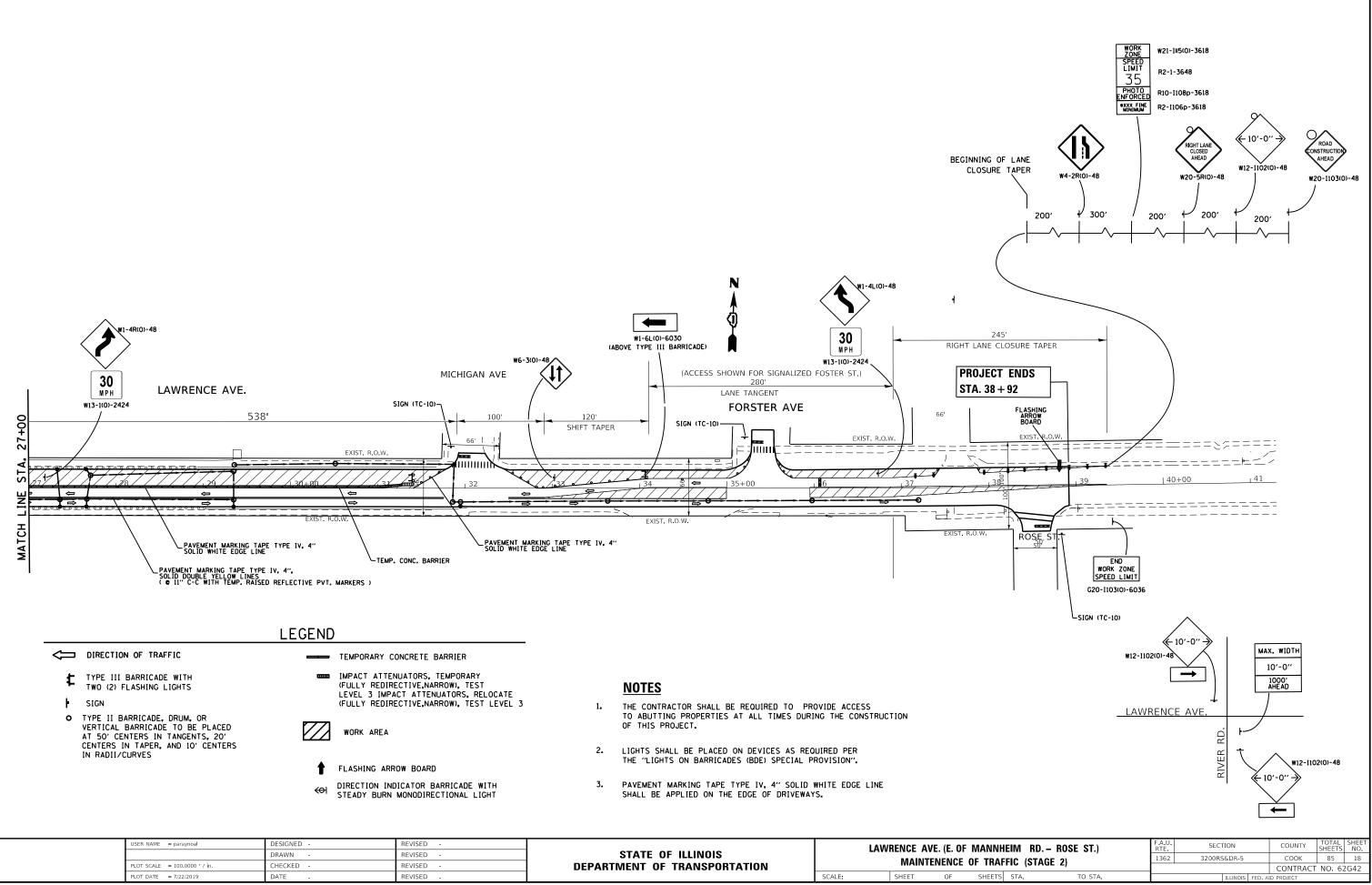
NHEIM RD.– ROSE ST.) Affic (stage 1)		F.A.U. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
AFFIC (STAGE 1)		3200RS	&DR-5		СООК	85	17
AFFIC (STAGE I)					CONTRACT	NO. 62	2G42
TS STA. TO STA.			ILLINOIS	FED. AI	ID PROJECT		

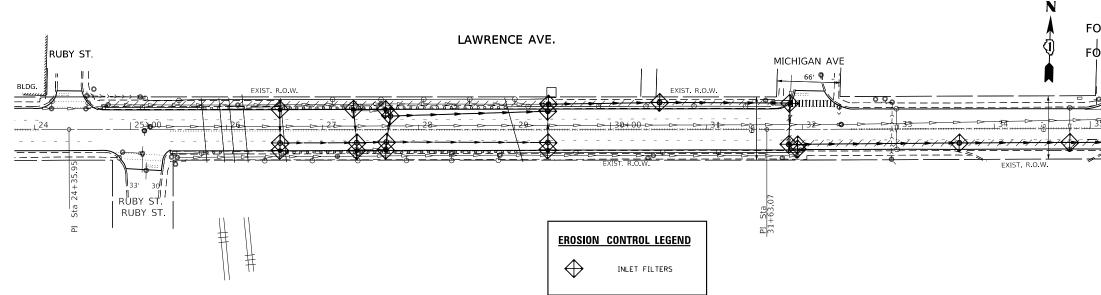




F.A.U. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
1362	3200RS	&DR-5	СООК	17B		
				CONTRACT	NO. 62	2G42
		ILLINOIS	FED. AI	D PROJECT		
	RTE.	RTE. SECT 1362 3200RS	RTE. SECTION 1362 3200RS&DR-5	RTE. SECTION 1362 3200RS&DR-5	INTE. SECTION COUNT 1362 3200RS&DR-5 COOK CONTRACT	RTE. SECTION COUNTY SHEETS 1362 3200RS&DR-5 COOK 85 CONTRACT NO. 62



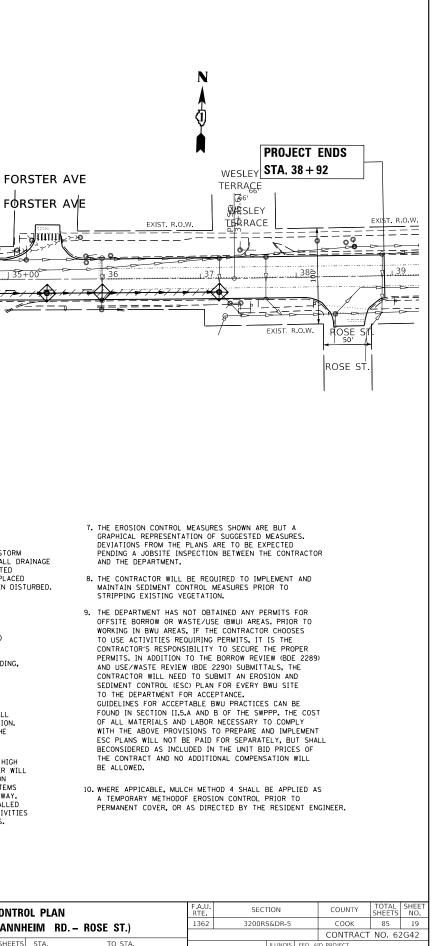




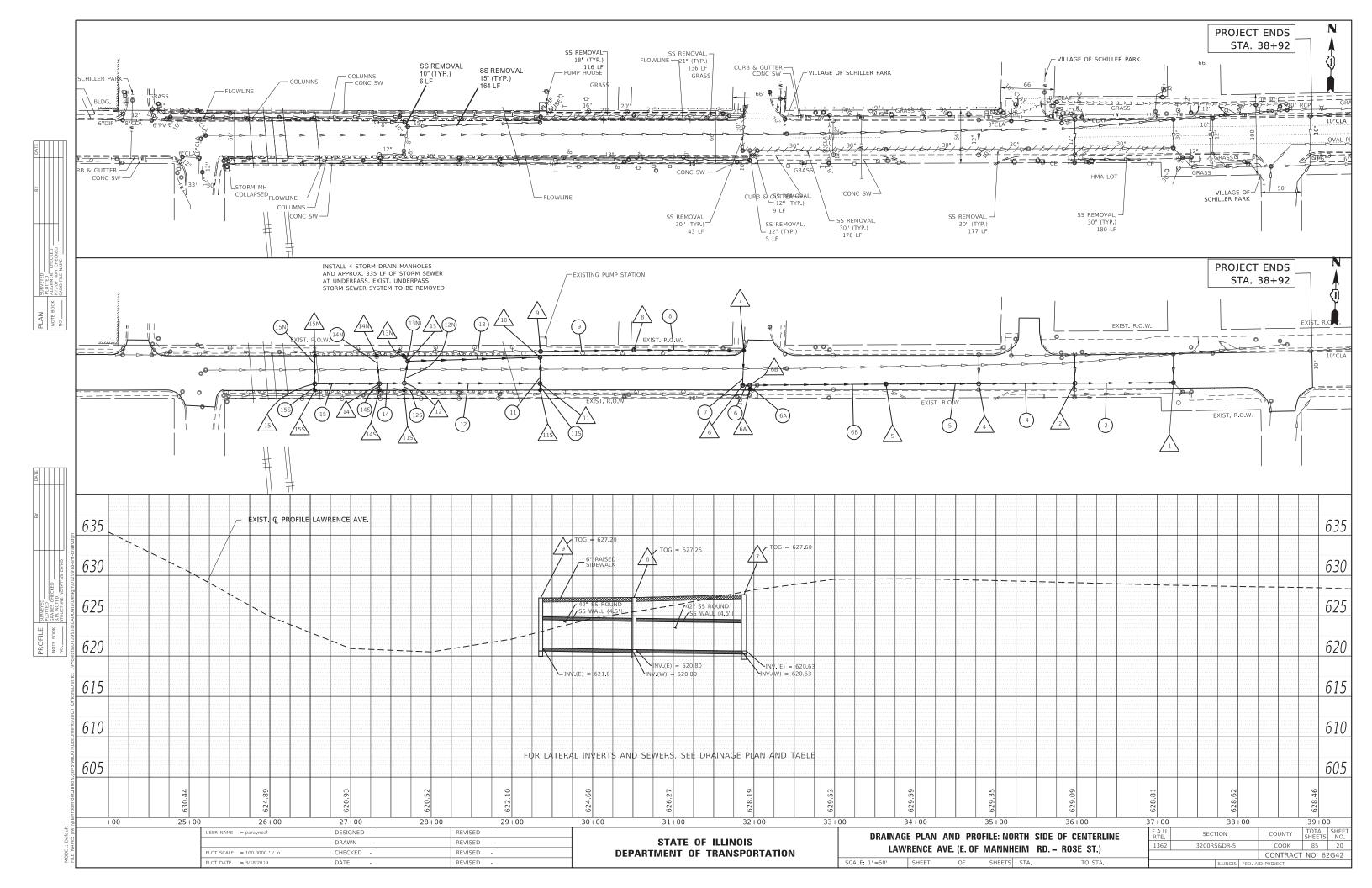
EROSION CONTROL GENERAL NOTES

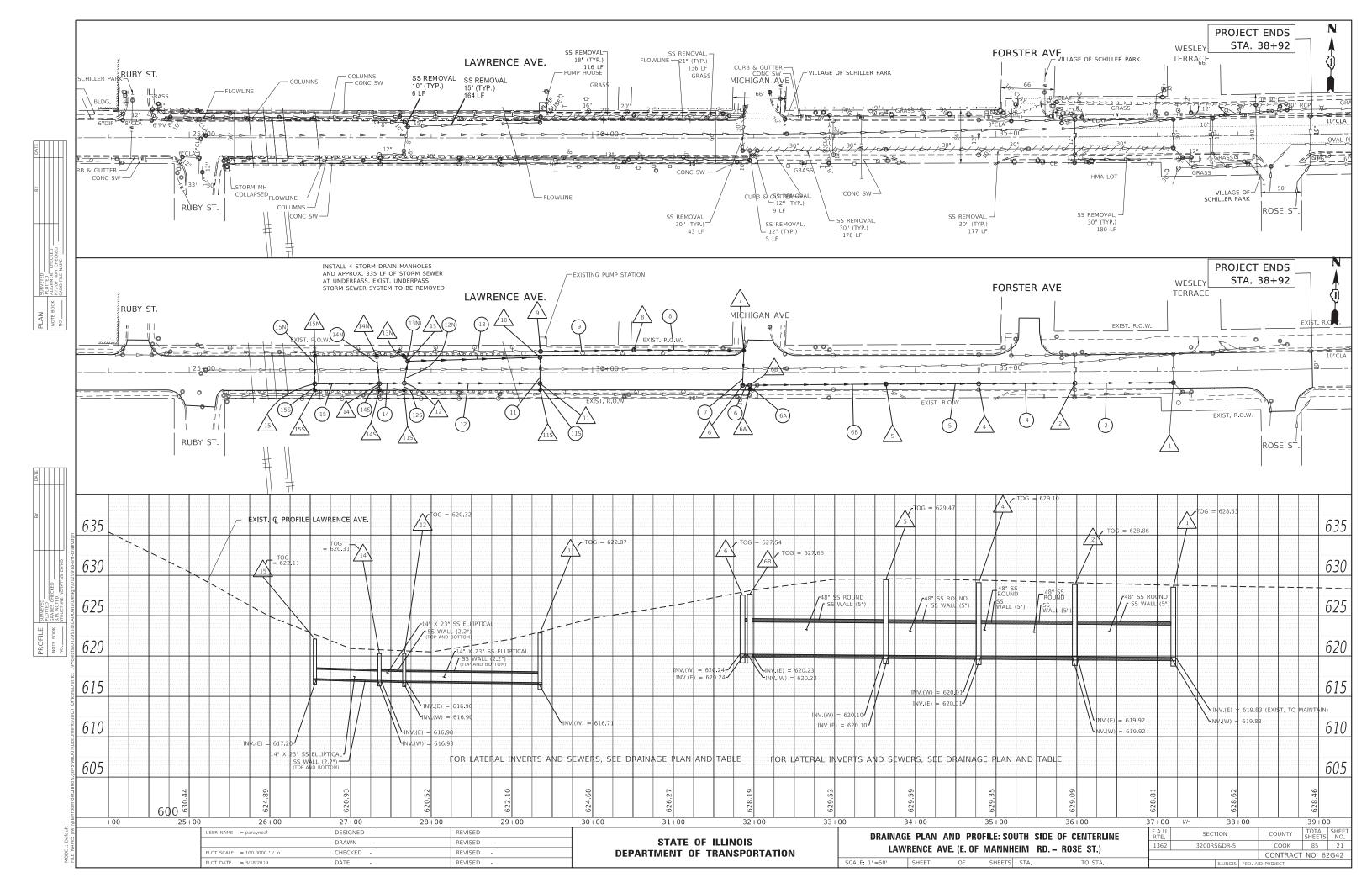
- 1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
- 2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN STORM DRAIN INLET FILTERS AND PIPE PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.
- 3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE STATE STANDARD FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
- 4. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
- 5. DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED, ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.
- 6. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH POTENTIALLY CREATE ERODIBLE CONDITIONS.

USER NAME = paraynoal	DESIGNED -	REVISED -			FR	OSION (CONTRO	
	DRAWN -	REVISED -	STATE OF ILLINOIS	1 1 4 1 4 1				_
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	LAW	RENCE AVE.	(E. UF I	MANNH	21
PLOT DATE = 3/18/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	Ş



ILLINOIS FED





DRAINAGE STRUCTURES TABLE

	USER NAME = paraynoal PLOT SCALE = 100.0000 ' / in. PLOT DATE = 7/22/2019	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -		TATE OF ILLINOIS ENT OF TRANSPORTATION	DRAIN LAWRENCE AVE. SCALE: SHEET	AGE STRUCTUR
TOP 7	STA. 31+87.6 / 27.5 LT T.O.G. = 627.60 INV.(W) = 620.63 (INFLOW) INV. (N) = (EXIST, INFLOW, MAINT MAINTAIN EXIST. PIPE. NO INV.(S) = 620.63 (OUTFLOW) IDA COMPLIANT OPEN LID FOR S HWY STD. 604001	DATA ON INVERT)	INV.(W) = 616.90 (INFLOW) INV.(S) = 616.90 (INFLOW) INV.(N) = 616.90 (OUTFLOW) INV.(E) = 616.90 (OUTFLOW) INV.(E) = 616.90 (OUTFLOW) INL TYP. A 2' DIA. W/ STA. 27+66.1 / 21.8 RT T.O.C. = 620.14 INV.(N) = 617.0 (OUTFLO			017/	5
	STA. 31+85.8 / 15.7 RT T.O.G. = 627.54 INV.(N) = 620.24 (INFLOW) INV.(E) = 620.24 (OUTFLOW) WH TYP. A 6' DIA. W/ F&G OL	F	TUAT MH TYP. A 4' DIA. W/ F&C STA. 27+66.6 / 13.1 RT T.O.G. = 620.32		INV.(S) = 617.20 (INFLOW) INV.(E) = 617.20 (OUTFLOW) INL TYP. A 2' DIA. W/ STA. 26+55.8 / 22.1 RT T.O.G. = 621.98 INV.(N) = 617.25 (OUTFLO		
TOP 6A	CB, TYP. A 5' DIA. W/ F&L OL STA. 31+94.6 / 20.6 RT T.O.G. = 627.42 INV.(N) = 620.29 (OUTFLOW) MH, TYP. A 6' DIA. W/ F&L CL		INV.(S) = 616.71 (INFLOW) INV.(N) = 616.71 (OUTFLOW) CB TYP. A 4' DIA. W/ STA. 29+34.9 / 21.6 R T.O.G. = 622.71 INV.(N) = 616.80 (OUTFL	T	INV.(S) = 617.40 (OUTFL FLAT TOP 15 MH TYP. A 4' DIA. W/ F&L. STA. 26+55.8 / 14.1 RT T.O.G. = 622.11 INV.(N) = 617.20 (INFLOW)		THE INSTALL (CATCH BASI A PROPOSED AND THE RE BE PAID FOF PRICE FOR
TOP 6B	MH, TYP. A 6' DIA. W/ F&L CL STA. 31+94.8 / 15.6 RT T.O.G. = 627.66 INV.(N) = 620.23 (INFLOW) INV.(E) = 620.23 (OUTFLOW)		FLAT MH TYP. A 5' DIA. W/ F&I TOP 11 STA. 29+34.9 / 13.5 RT T.O.G. = 622.87 INV.(W) = 616.71 (INFLOW)	L. CL TYP. 1	INL TYP. A 2' DIA. W/ STA. 26+55.6 / 20.6 L T.O.G. = 622.01	г	THE B) ALL (STRU
TOP 5	MH, HTP. A 6 DIA. W/ PAL CL STA. 33+63.5 / 14.7 RT T.O.G. = 629.47 INV.(W) = 620.10 (INFLOW) INV.(E) = 620.10 (OUTFLOW)		NOTE: STR. 10 TIES IN TO EXIST. 15' THAT LEADS TO PUMP STATION. THIS PIPE HAS EXIST. INV = 616.68, TO MAINTAIN.	" PIPE	INL TYP. A 2' DIA. W/ STA. 27+35.8 / 22.0 RT T.O.G. = 620.19 INV.(N) = 617.1 (OUTFLOW	r	NOTES: STORM SEWE TO THE FOLI A) STRU(
	MH, TYP. A 6' DIA. W/ F&L CL)W, MAINTAIN) Fi T	LAT OP 10 STA. 29+34.8 / 19.0 LT T.O.G. = 622.58 INV.(W) = 616.68 (INFLOW) INV.(S) = 616.68 (EXIST, OUT		FLAT MH TYP. A 4' DIA. W/ F&L. TOP_14 STA. STA. 27+35.8 / 13.8 R T.O.G. = 620.31 INV.(N) = 616.98 (INFLOW) INV.(S) = 616.98 (INFLOW) INV.(S) = 616.98 (INFLOW) INV.(W) = 616.98 (INFLOW) INV.(E) = 616.98 (INFLOW)	, CL TYP. 1	
FLAT	INV.(E) = 619.92 (OUTFLOW) MH. TYP. A 6' DIA. W/ F&L CL STA. 34+78.6 / 14.7 RT		INV.(N.) 622.60 (EX. 6" D.I. NOTE: STR. 9 TIES INTO EXIST. 6" D.I. PIPE FROM PUMP STATION, TO B	P. DISCHARGE	INL TYP. A 2' DIA. W/ STA.27+65.7 / 20.9 LT T.O.G. = 620.04 INV.(S) = 617.10 (OUTFL)		
TOP 2	MH, TYP. A 6' DIA. W/ F&L CL STA. 35+97.7 / 14.5 RT T.O.C. = 628.86 INV.(N) = 623.88 (EXIST. INFLOW INV.S) = 623.88 (EXIST. OUTFLO INV.(W) = 619.92 (INFLOW)	, MAINTAIN)	LAT MH TYP. A 5' DIA. W/ F& STA. 29+35.6 / 26.3 LT T.O.G. = 627.20 INV.(W) = 622.50 (EXIST. IN INV.(E) = 621.0 (OUTFLOW)	NFLOW, TO MAINTAIN)	FLAT MH TYP. A 4' DIA. W/ F& TOP 13 MH TYP. A 4' DIA. W/ F& STA. 27+70.9 / 14.0 LT T.O.G. = 620.11 INV.(NW) = 616.80 (INFLOW) INV.(S) = 616.80 (INFLOW) INV.(E) = 616.80 (OUTFLOW)	G. CL TYP. 1	
	STA. 37+19.8 / 14.1 RT T.O.C. = 628.53 INV.(W) = 619.83 (INFLOW) INV.(N) = 621.83 (EXIST. INFLOW INV.(E) = 619.83 (EXIST. OUTFLO		T.O.C. = 627.25 INV.(W) = 620.80 (INFLOW) INV.(SE) = 622.20 (EXIST. I MAINTAIN EXI INV.(E) = 620.80 (OUTFLOW)		INL TYP. A 2' DIA. W/ FLAT STA. 27+65.7 / 20.9 L1 TOP/13N T.O.G. = 620.04 INV.(S) = 616.86 (OUTFL	r	

NOTES: STORM SEWER OFFSET LOCATIONS GIVEN ON THE DETAIL PLANS ARE TO THE FOLLOWING POINTS:

A) STRUCTURES FALLING WITHIN THE CURB LINE ARE MEASURED TO THE EDGE OF PAVEMENT.

B) ALL OTHER STRUCTURES ARE MEASURED TO THE CENTER OF THE STRUCTURE.

THE INSTALLATION AND CONNECTION OF A PROPOSED STRUCTURE (CATCH BASIN/MANHOLE/INLET) OVER AN EXISTING STORM SEWER AND/OR A PROPOSED STORM SEWER CONNECTION TO AN EXISTING STRUCTURE, AND THE REMOVAL WORK REQUIRED TO MAKE THE CONNECTION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE ITEM BEING INSTALLED.

SHORTHAND AND SYMBOL LEGEND:

МН	=	MANHOLE
СВ	=	CATCH BASIN
DIA.	=	DIAMETER, IN FEET
F&G	=	FRAME AND GRATE
F&L	=	FRAME AND LID
CL	=	CLOSED LID
0L	=	OPEN LID
TYP.	=	TYPE
STA.	=	STATION
T.O.G.	=	TOP OF GRADE ELEVATION IN FEET
INV.	=	INVERT ELEVATION IN FEET
LT	=	OFFSET DISTANCE TO THE LEFT OF ALIGNMENT LINE, IN FEET
RT	=	OFFSET DISTANCE TO THE RIGHT OF ALIGNMENT LINE, IN FEET

TURES TABLE NHEIM RD.– ROSE ST.)		F.A.U. RTE	SECT	SECTION			TOTAL SHEETS	SHEET NO.	
		1362 3200RS&DR-5				СООК	85	22	
						CONTRACT NO. 62G42			
TS	STA.	TO STA.			ILLINOIS	FED, AI	D PROJECT		

DRAINAGE STRUCTURES AND STORM SEWERS TABLE

	1	PIPE LOCATION
STORM SEWER PIPES	ADJUSTED LENGTH	STRUCTURE TO STRUCTURE (DOWNSTREAM) (UPSTREAM)
2 PROP. PIPE CULVERT, CLASS A, TYPE 2, 48" TRENCH BACK FILL = 298.5 CUBIC YARDS	118.6′	FLAT TO FLAT 2
PROP. PIPE CULVERT, CLASS A, TYPE 2, 48" TRENCH BACK FILL = 300.0 CUBIC YARDS	115.5'	FLAT TOP2 TO FLAT TOP4
5 PROP. PIPE CULVERT, CLASS A, TYPE 2, 48" TRENCH BACK FILL = 299.4 CUBIC YARDS	111.6′	FLAT TO FLAT TO TOP 5
6B PROP. PIPE CULVERT, CLASS A, TYPE 2, 48" TRENCH BACK FILL = 388.1 CUBIC YARDS	165.1′	FLAT TOP 5 TO FLAT TOP 6B
6A PROP. PIPE CULVERT, CLASS A, TYPE 2, 12" TRENCH BACK FILL = 2.4 CUBIC YARDS	1.4′	FLAT TOP_6B TO FLAT TOP_6A
6 PROP. PIPE CULVERT, CLASS A, TYPE 1, 48" TRENCH BACK FILL = 10.1 CUBIC YARDS	5.3'	FLAT TOP_6B TO FLAT TOP_6
7 PROP. PIPE CULVERT, CLASS A, TYPE 1, 48" TRENCH BACK FILL = 72.7 CUBIC YARDS	39.6′	FLAT TOP 6 TO FLAT 7
8 PROP. PIPE CULVERT, CLASS A, TYPE 1, 42" TRENCH BACK FILL = 99.6 CUBIC YARDS	132.9'	FLAT TOP 7 TO FLAT TOP 8
9 PROP. PIPE CULVERT, CLASS A, TYPE 1, 42" TRENCH BACK FILL = 77.9 CUBIC YARDS	113.1'	FLAT TOP 8 TO FLAT 9
NOTE: MAINTAIN EXISTING 15" PIPE AND ITS EXISTING SLOPE AND ELEVATION, CONNECTING PROP. STRUCTURE NO. 8 AND THE PUMP STATION.		EXIST. PUMP TO FLAT STATION TOP 10
11 PROP. PIPE CULVERT, CLASS A, TYPE 1, 36" TRENCH BACK FILL = 41.4 CUBIC YARDS	29.1′	FLAT TOP_10 TO FLAT TOP_11
11S PROP. STORM SEWER, CLASS A, TYPE 2, 12" TRENCH BACK FILL = 5.2 CUBIC YARDS	3.8′	FLAT TOP_11 TO 11S
PROP. STORM SEWER, CLASS A, TYPE 2, EQUIV. ROUND SIZE 18", (14" X 23" ELLIPTICAL) TRENCH BACK FILL = 168.1 CUBIC YARDS	164.5′	FLAT TOP_11 TO FLAT TOP_12
12N PROP. STORM SEWER, CLASS A. TYPE 1. EQUIV. ROUND SIZE 18", (14" X 23" ELLIPTICAL) TRENCH BACK FILL = 9.1 CUBIC YARDS	24.2'	FLAT TOP_13 TO FLAT TOP_12
12S PROP. STORM SEWER, CLASS A, TYPE 1, 12" TRENCH BACK FILL = 1.4 CUBIC YARDS	4.0'	FLAT TOP 12 TO 12S

	ADJUSTED	PIPE STRUCTURE		ATION
STORM SEWER PIPES	LENGTH	(DOWNSTREAM)	то	STRUCTURE (UPSTREAM)
13N PROP. STORM SEWER, CLASS A, TYPE 1, 12" TRENCH BACK FILL = 1.7 CUBIC YARDS	4.9′	FLAT TOP_13	то	13M
PROP. STORM SEWER, CLASS A, TYPE 2, EQUIV. ROUND SIZE 18", (14" X 23" ELLIPTICAL) TRENCH BACK FILL = 93.5 CUBIC YARDS	160.2'	FLAT TOP 10	то	FLAT TOP_13
14N PROP. STORM SEWER, CLASS A. TYPE 1, 12" TRENCH BACK FILL = 10.1 CUBIC YARDS	30'	FLAT TOP_14	то	14N
PROP. STORM SEWER, CLASS A, TYPE 1, EQUIV. ROUND SIZE 18", (14" X 23" ELLIPTICAL) TRENCH BACK FILL = 10.4 CUBIC YARDS	27.6'	FLAT TOP_12	то	FLAT TOP 14
145 PROP. STORM SEWER, CLASS A. TYPE 1, 12" TRENCH BACK FILL = 1.2 CUBIC YARDS	3.4′	FLAT TOP_14	то	145
15N PROP. STORM SEWER, CLASS A. TYPE 2. 12" TRENCH BACK FILL = 17.8 CUBIC YARDS	29.9′	FLAT TOP 15	то	15N
PROP. STORM SEWER, CLASS A, TYPE 1, EQUIV. ROUND SIZE 18", (14" X 23" ELLIPTICAL) TRENCH BACK FILL = 38.6 CUBIC YARDS	76.8'	FLAT TOP_14	то	FLAT TOP 15
155 PROP. STORM SEWER. CLASS A. TYPE 2. 12" TRENCH BACK FILL = 2 CUBIC YARDS	3.3′	FLAT TOP_15	то	155

SINKHOLE REPAIR AT E. OF CANFIELD AVE. (SEE DETAIL SHEET) PROP. STORM SEWER, CLASS A TYPE 2, 12" TRENCH BACK FILL = 25.4 CUBIC YARDS

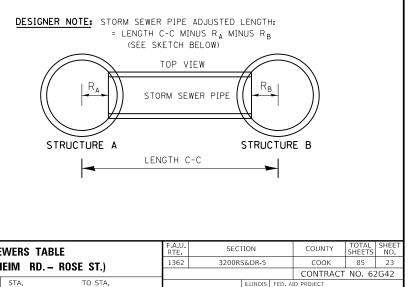
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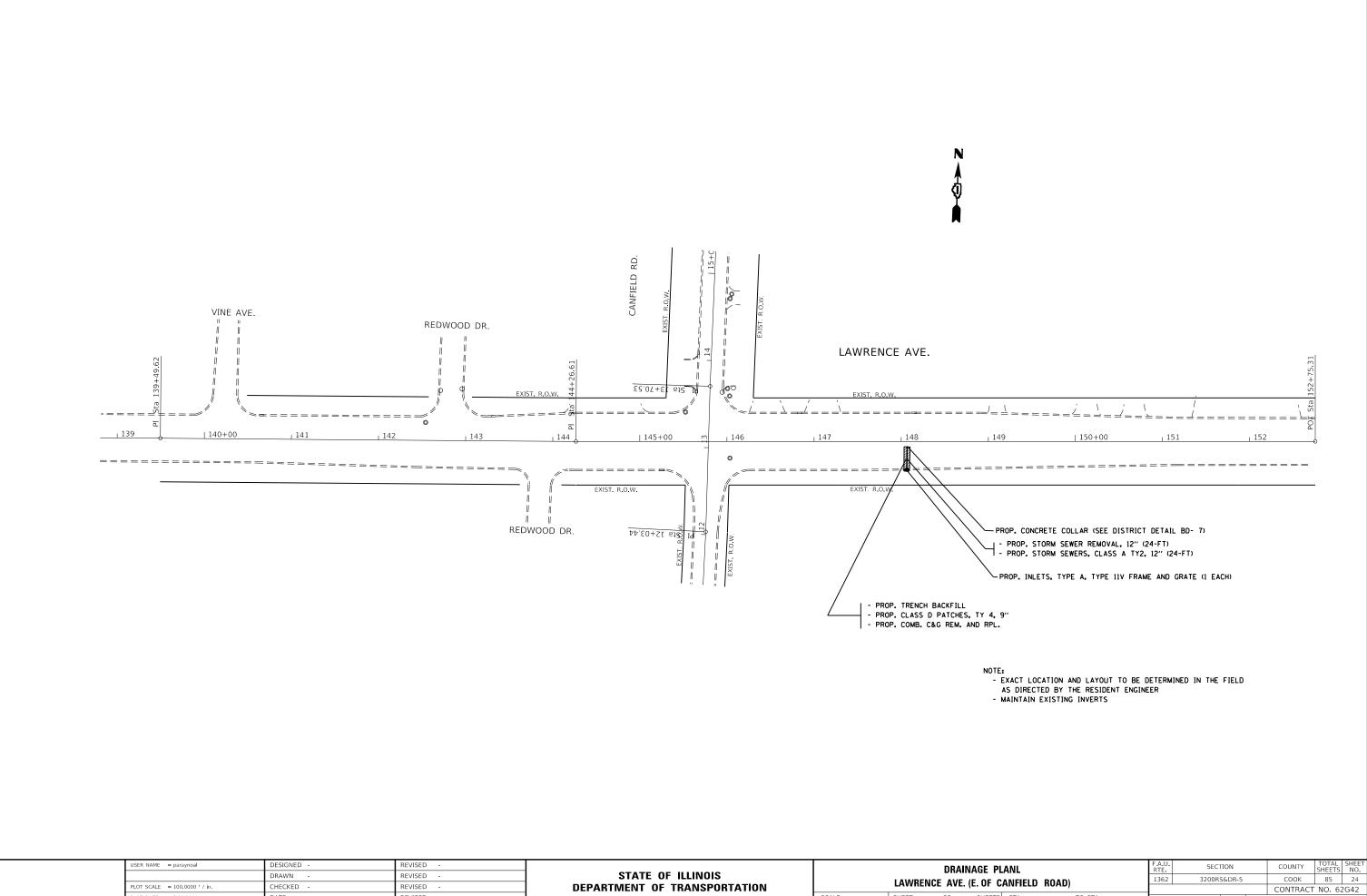
STORM SEWER OFFSET LOCATIONS GIVEN ON THE DETAIL PLANS ARE TO THE FOLLOWING POINTS: A) STRUCTURES FALLING WITHIN THE CURB LINE ARE MEASURED TO THE EDGE OF PAVEMENT. B) ALL OTHER STRUCTURES ARE MEASURED TO THE CENTER OF THE STRUCTURE.

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USER NAME = paraynoal		REVISED - REVISED -	STATE OF ILLINOIS		DRAIN/		
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	LAW	RENCE AVE	. (E. OF	MANNHEIN
PLOT DATE = 7/22/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS ST

24'





DEPARTMENT OF TRANSPORTATION SCALE:

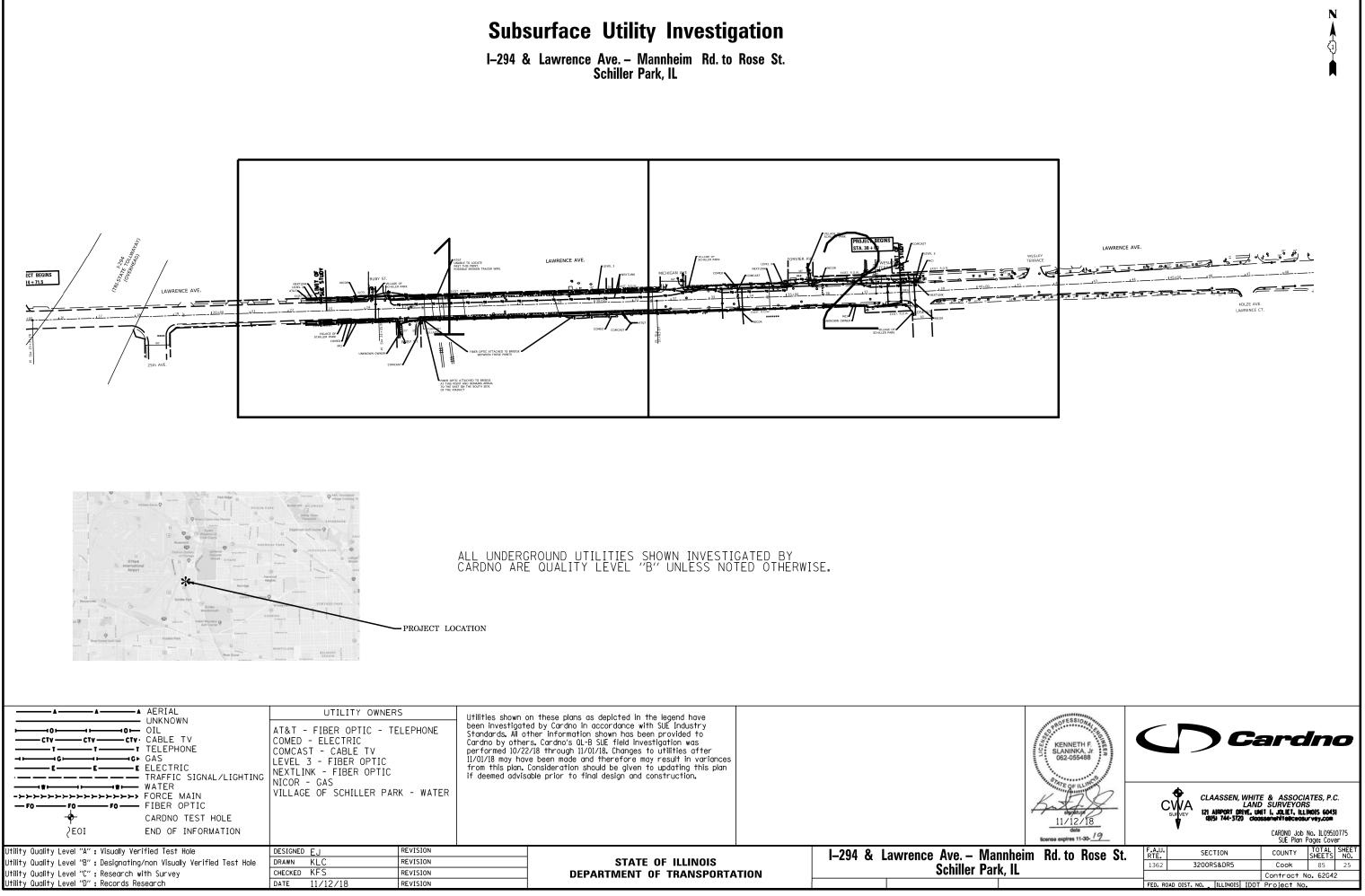
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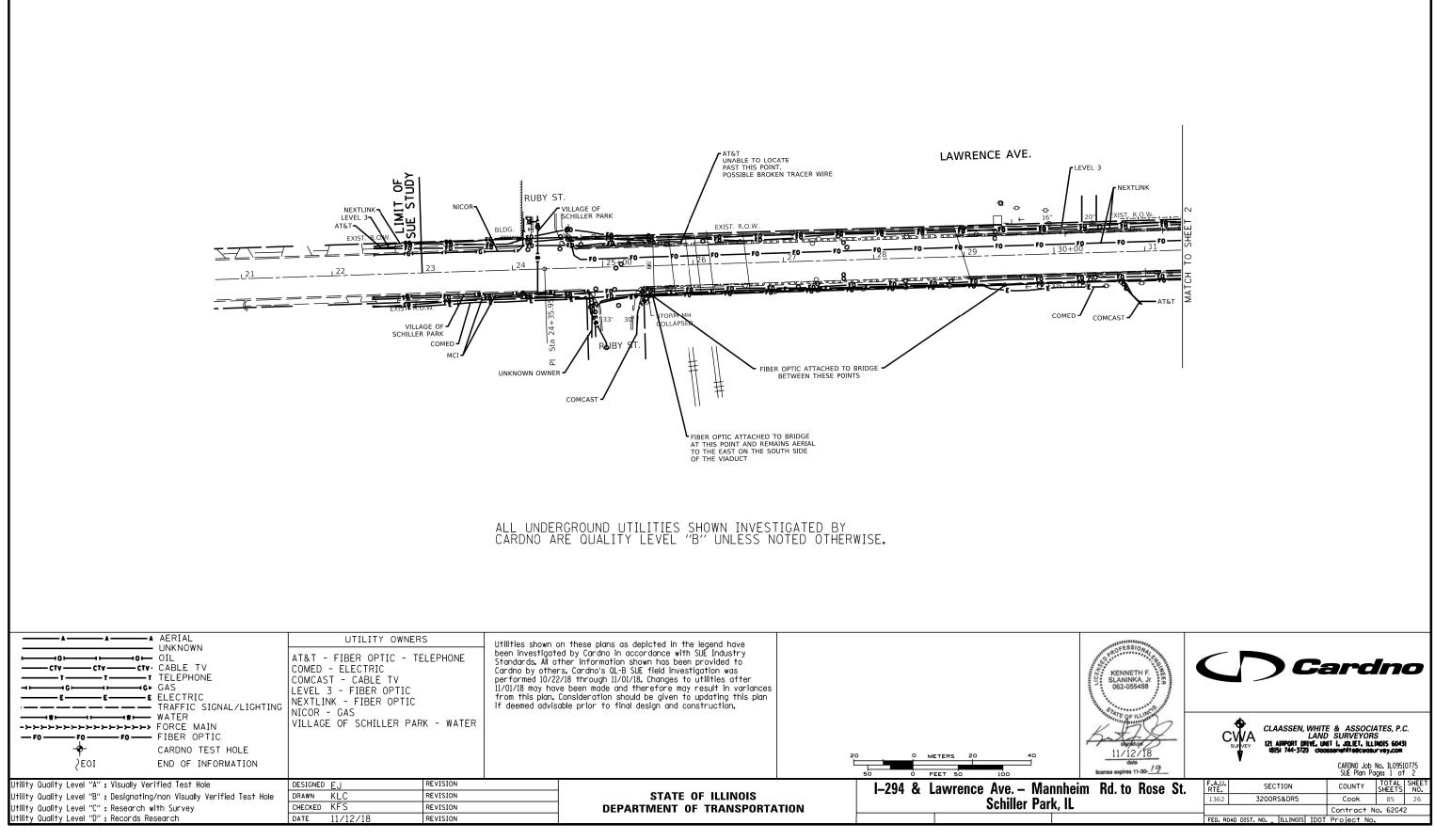
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LOT DATE = 7/22/2019

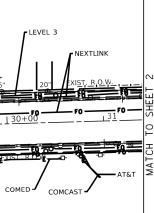
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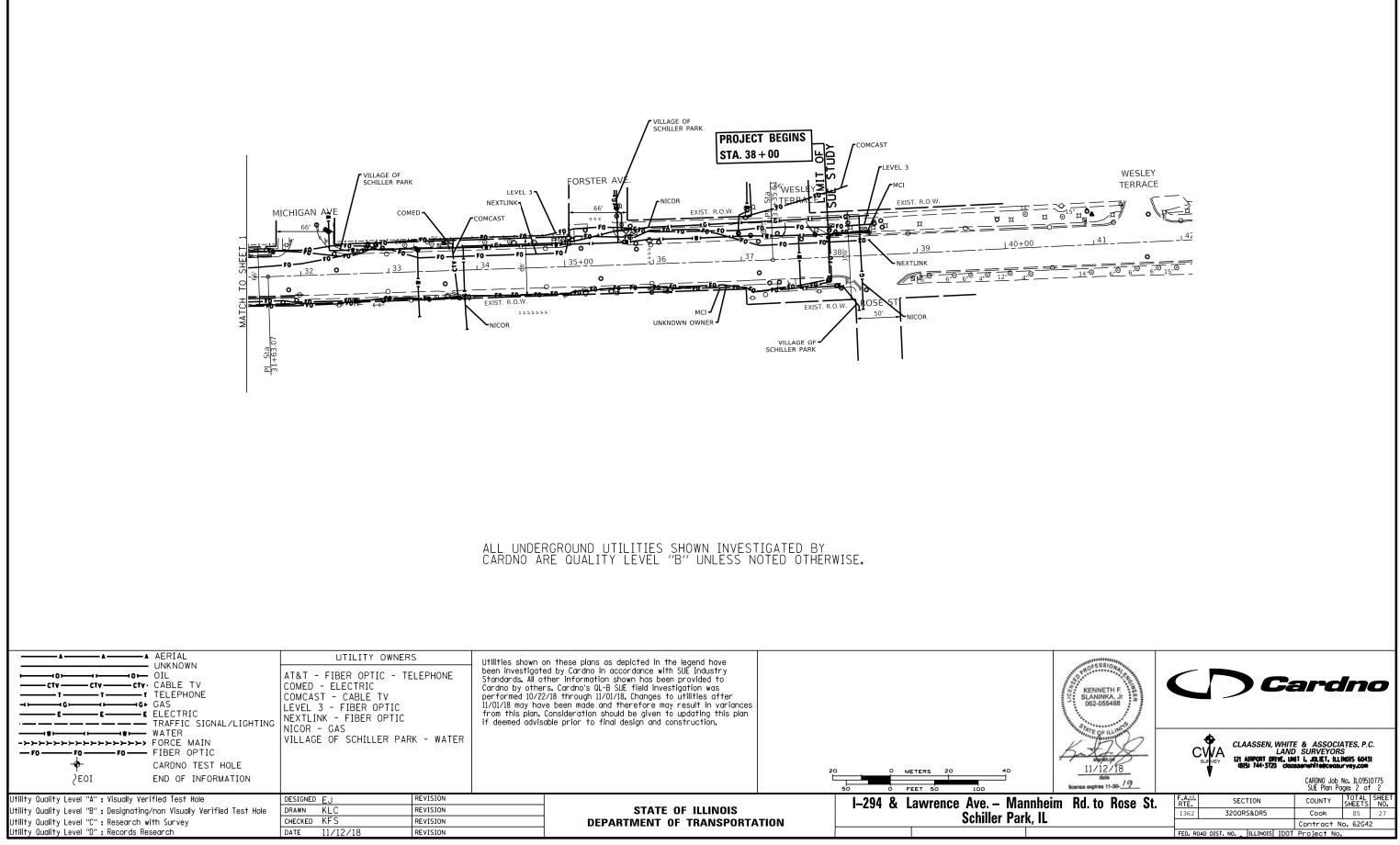
ACE AVE	IF OF CA	<u>anfifi i</u>) ROAN)	1502 5200030000				COOK	0.5	
	ICE AVE. (E. OF CANFIELD ROAD)						CONTRACT	NO.	52	
OF	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



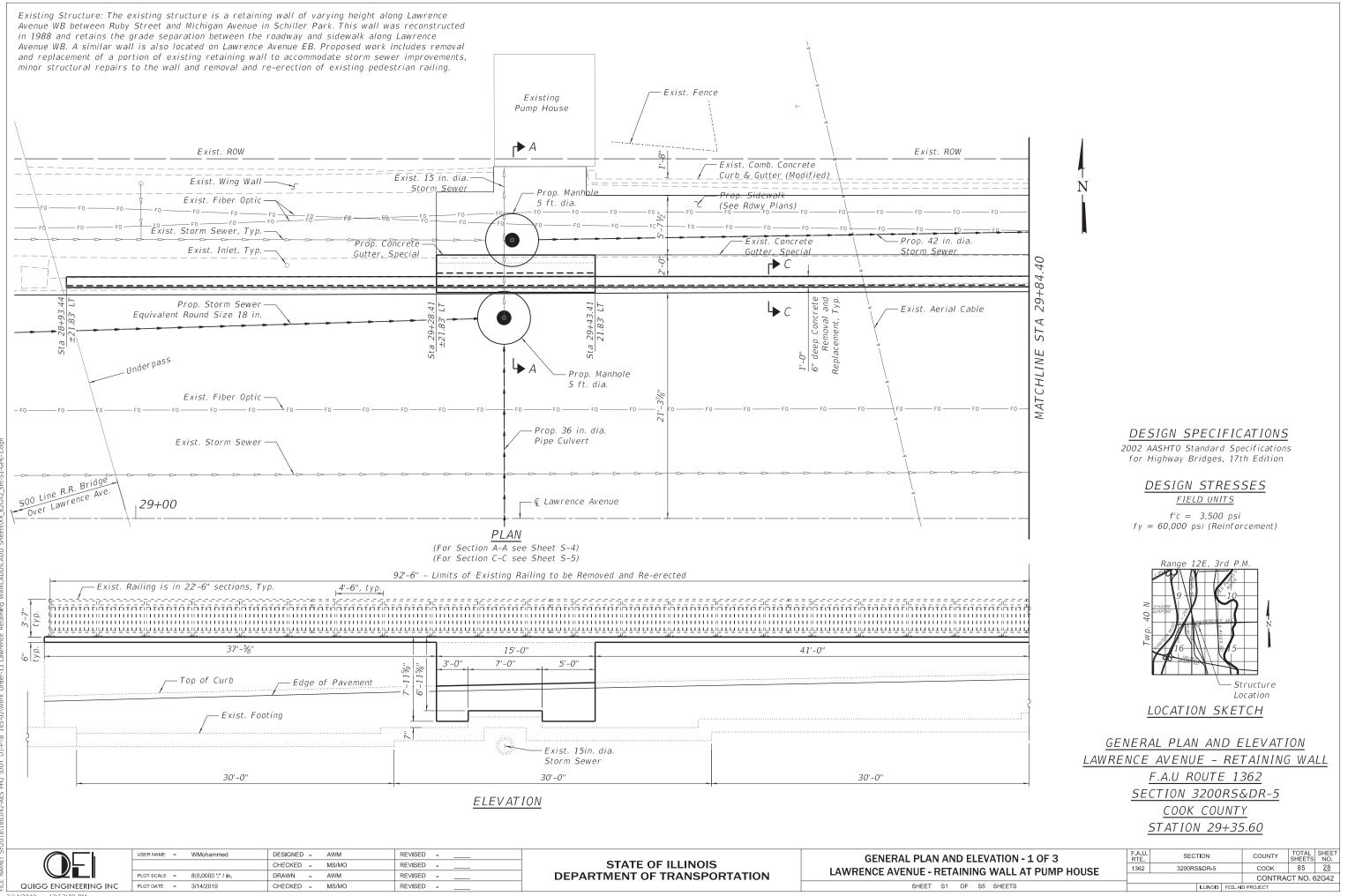




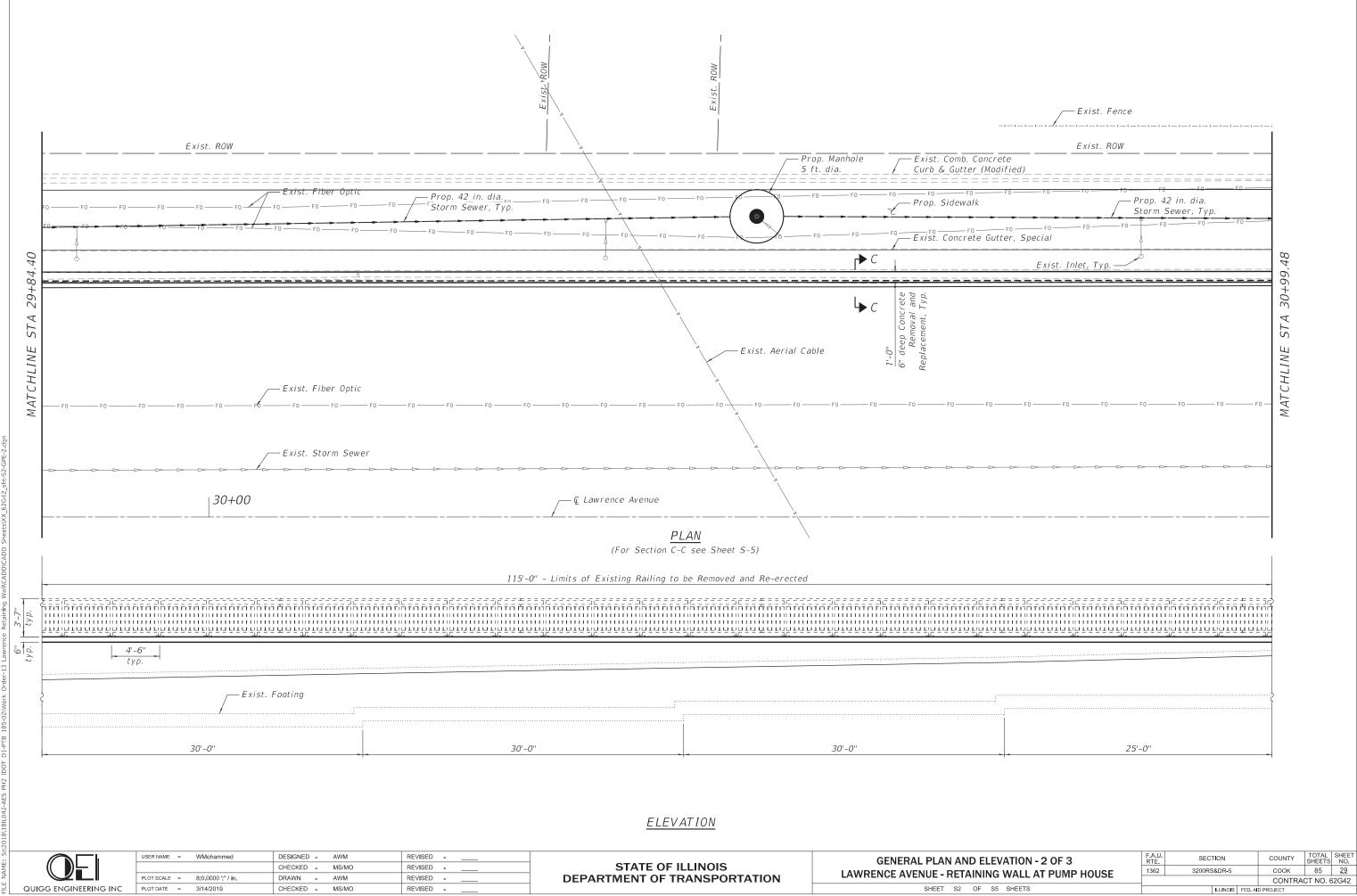




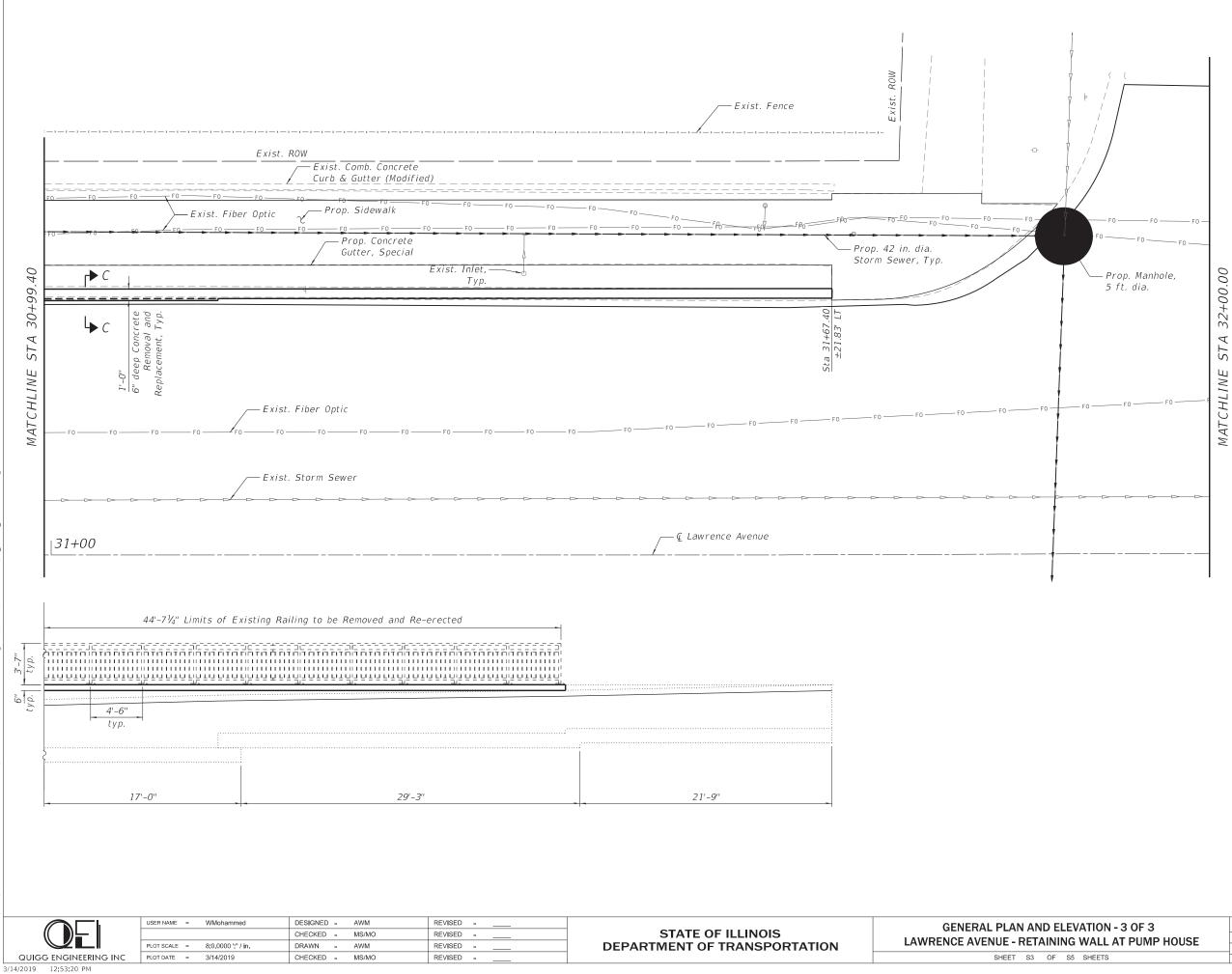




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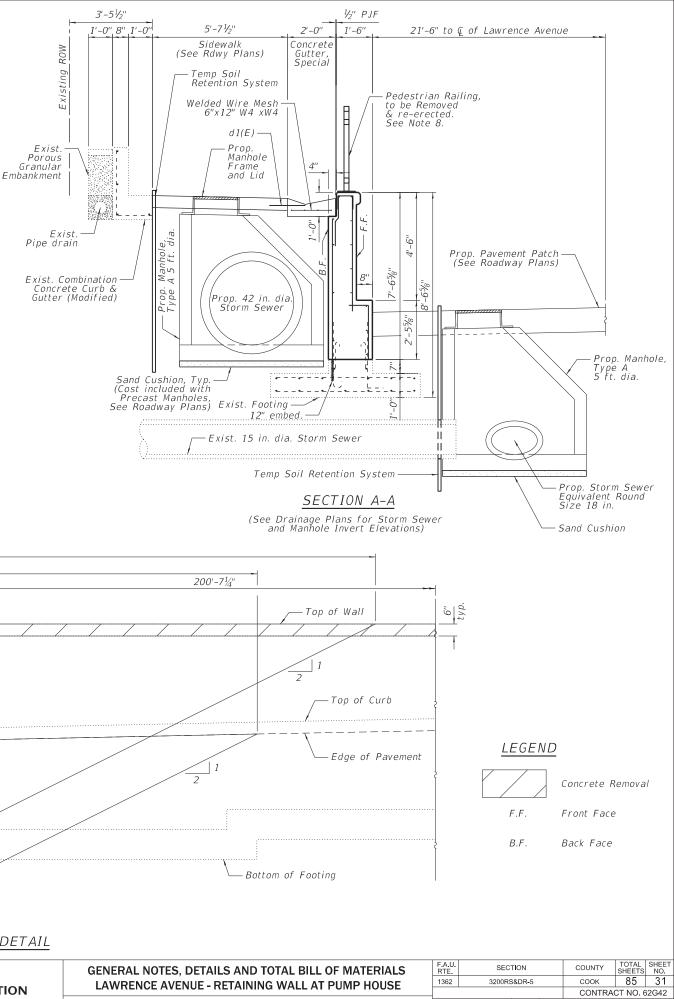
EVATION - 3 OF 3 IG WALL AT PUMP HOUSE		SECTION			COUNTY	TOTAL	SHEET NO.
		3200RS&DR-5			соок	85	<u>30</u>
					CONTRACT NO. 62G42		
S5 SHEETS			ILLINOIS	FED. AI	D PROJECT		

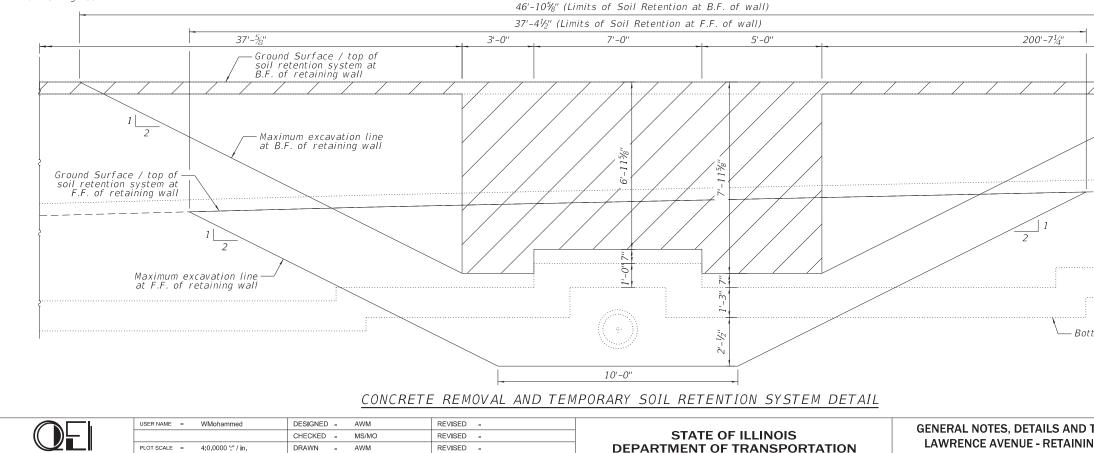
GENERAL NOTES

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. 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.
- 3. Protective coat shall be applied to the exposed top and front face of the retaining wall.
- 4. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- 5. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
- 6. Structure Excavation is measured only for the Front Face of the wall. Excavation for the back face is included in the work for installation of 42" dia. storm sewer. See roadway plans for details.
- 7. For sidewalk and wire mesh quantities see roadway plans.
- 8. Existing Railing shall be removed and the posts cut and welded to a $1\frac{1}{4}$ " base plate, to match existing top of rail elevation. See details on sheet S5. Cost included with Removing and Re-Erecting Existing Railing.
- 9. The contractor shall exercise extreme precautions during construction to protect existing utilities. Any damage done during construction shall be repaired by the contractor at at no additional cost to IDOT and in a manner satisfactory to the Engineer.
- 10. The water seal(s) at existing joints shall be protected in place during concrete removal and construction and incorporated with the new concrete. Any damage done during construction shall be repaired by the contractor at at no additional cost to IDOT and in a manner satisfactory to the Engineer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Welded Wire Reinforcement	Sq. Yd.	4
Concrete Removal	Cu Yd	11
Structure Excavation	Cu Yd	3
Concrete Structures	Cu Yd	11
Protective Coat	Sq Yd	51
Reinforcement Bars Epoxy Coated	Pound	660
Temporary Soil Retention System	Sq Ft	422
Concrete Gutter (Special)	Foot	15
Removing And Re-erecting Existing Railing	Foot	253





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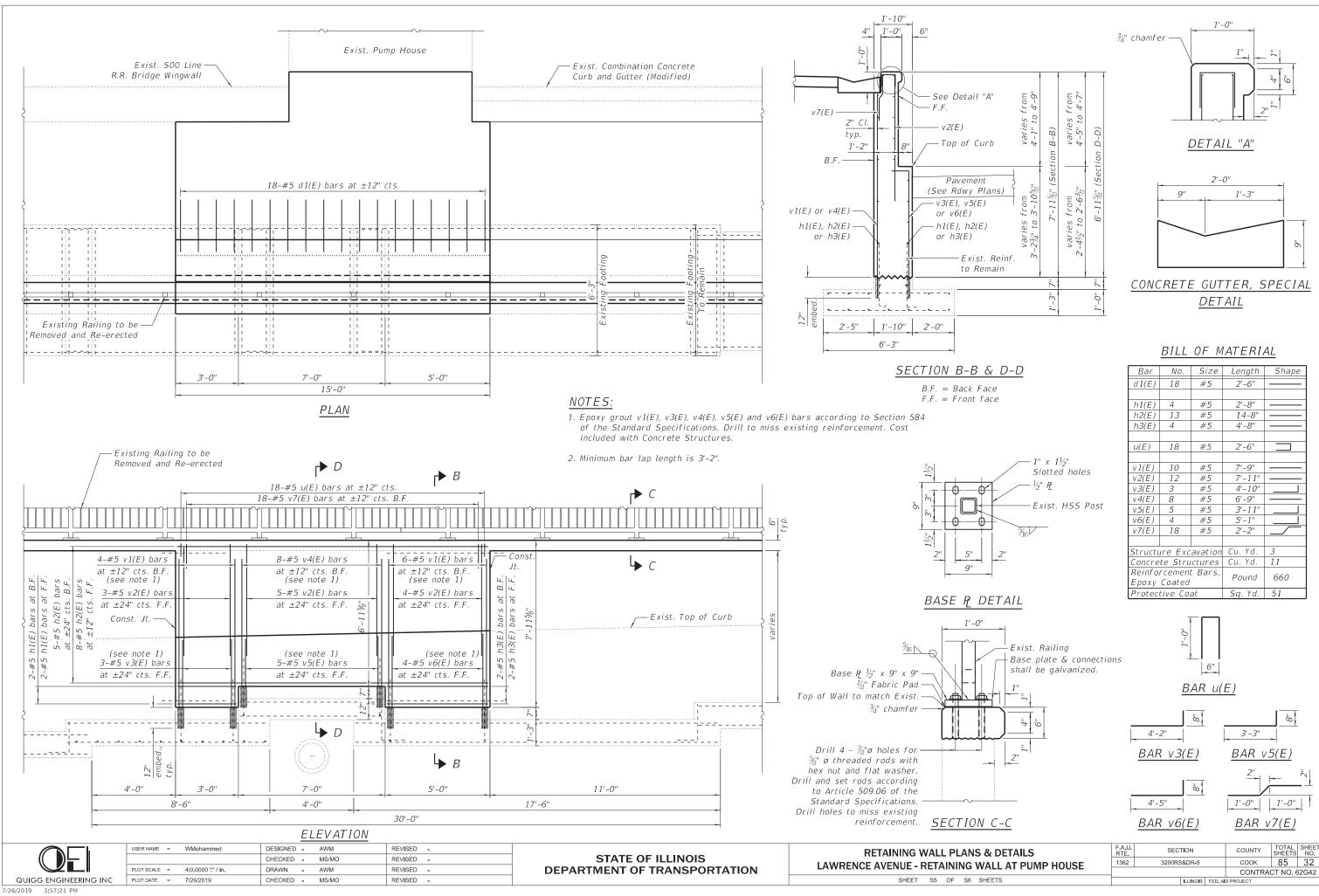
QUIGG ENGINEERING INC

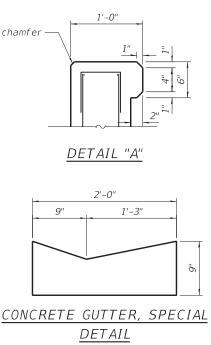
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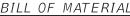
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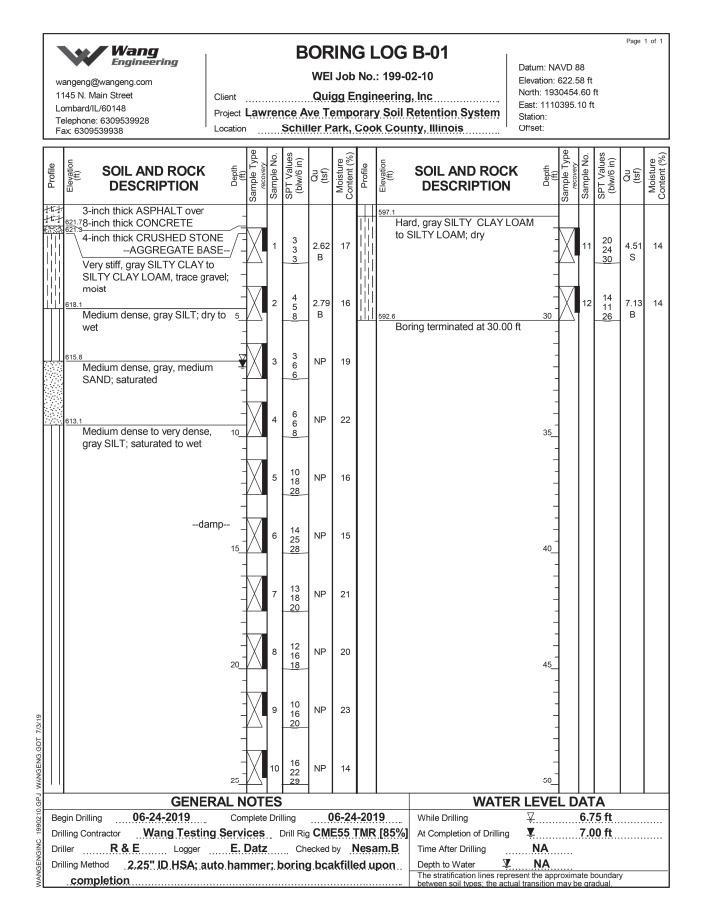


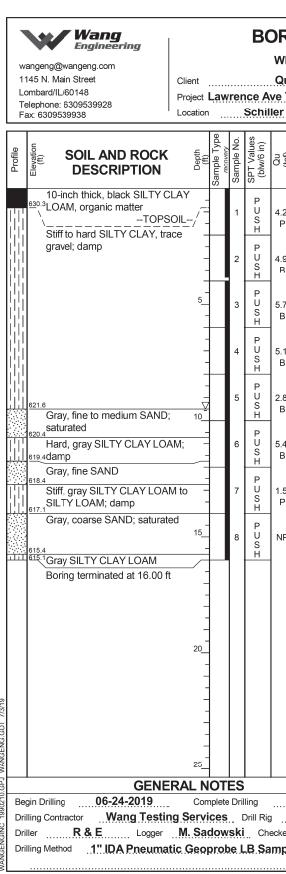
Bar	NO.	SIZe	Length	Snape		
d1(E)	18	#5	2'-6"			
h1(E)	4	#5	2'-8"			
h2(E)	13	#5	14-8"			
h3(E)	4	#5	4'-8''			
u(E)	18	#5	2'-6"			
v1(E)	10	#5	7'-9"			
v2(E)	12 #5		7'-11"			
v3(E)	3	#5	4'-10''			
v4(E)	8	#5	6'-9"			
v5(E)	5	#5	3'-11''			
v6(E)	4	#5	5'-1''			
v7(E)	18	#5	2'-2"			
Structu	ire Exc	avation	Cu.Yd.	3		
Concre	te Stru	ctures	Cu.Yd.	11		
Reinfo			Pound	660		
Ероху	Coated		round	000		
Protec	tive Co.	at	Sq. Yd.	51		





ANS & DETAILS	F.A.U. RTE	SEC ⁻	r i on		COUNTY	TOTAL SHEETS	SHEET NO.
G WALL AT PUMP HOUSE		3200RS&DR-5			COOK	85	32
					CONTRACT NO. 62G42		
S6 SHEETS			ILLINOIS	FED. A	D PROJECT		





SOIL BO

SOIL BORING LOG B-01

	USER NAME = WMohammed PLOT SCALE = 4:0.0000 '." / in.	DESIGNED - AWM CHECKED - MS/MO DRAWN - AWM	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORINGS
QUIGG ENGINEERING INC	PLOT DATE = 7/26/2019	CHECKED - MS/MO	REVISED -		SHEET S6 OF S6
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SHEETS

Page 1 of

BORING LOG HA-01

WEI Job No.: 199-02-10

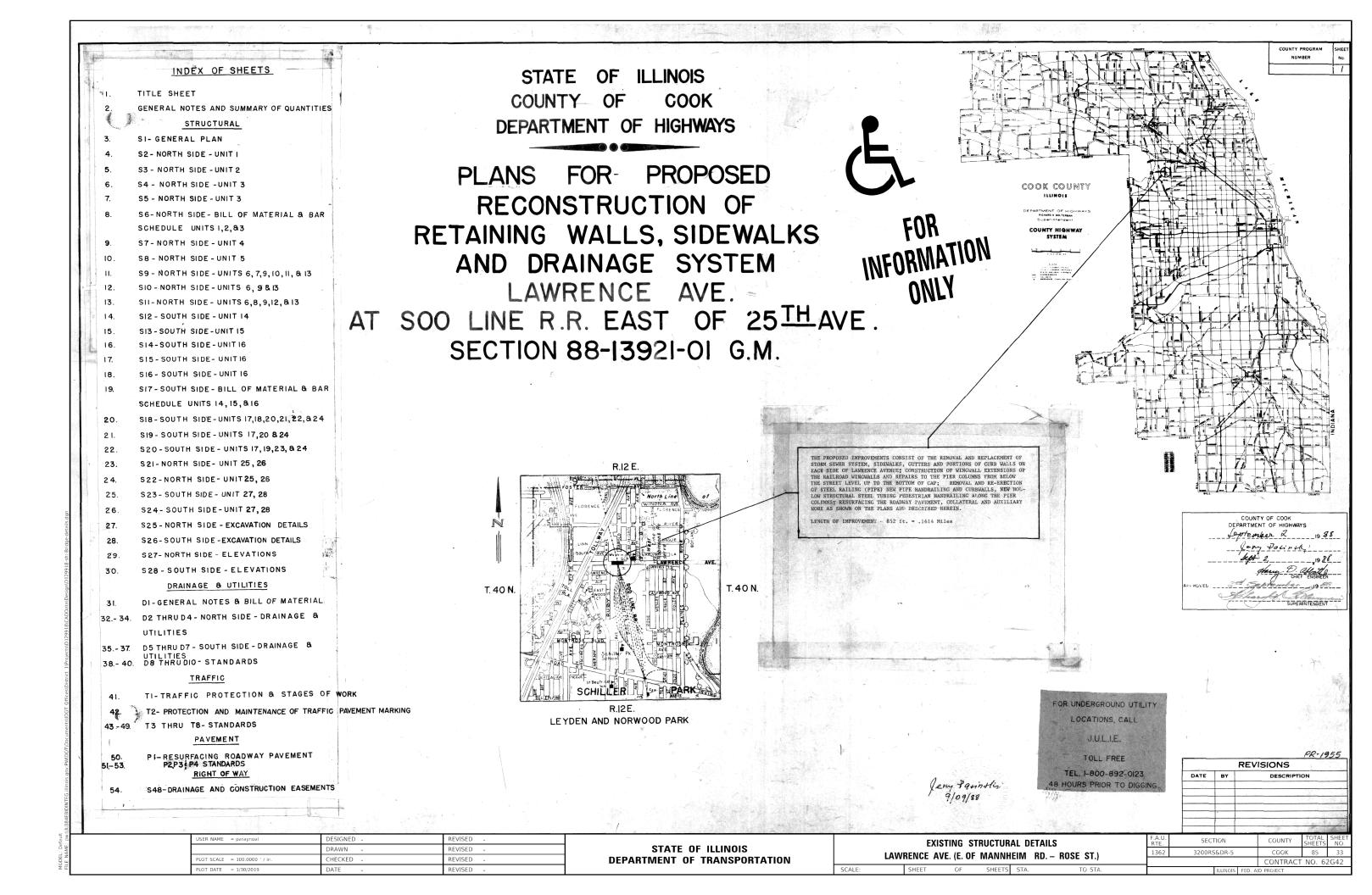
Quigg Engineering, Inc

Project Lawrence Ave Temporary Soil Retention System Schiller Park, Cook County, Illinois

Datum: NAVD 88 Elevation: 631.14 ft North: 1930475.19 ft East: 1110410.00 ft Station: Offset:

(tsf)	Moisture Content (%)	Profile	Elevation (ft)	SOIL AND F DESCRIPT	ROCK	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)			
25 5	16													
97 3	19													
73 3	19													
16 3	21													
87 3	25													
44 3	18													
50 >	15													
Ρ	14													
				W	ATER L	EVE	LD	AT	Ά					
06-24-2019 While Drilling At Completion of ed by Nesam.B Time After Drilling							•••••							
ea ple		lesa	<u>.</u>	Time After Drilling Depth to Water		NA	••••							
		•••••		The stratification lin between soil types:	nes represent 1	the appr	roxima nav b	ate b e ora	oundar dual	у				
R	ING	10	G HA					- 919				1		
			2 117											
IGS G WALL AT PUMP HOUSE			F.A.U. RTE		CTION			COUN		TOTAL SHEETS	SHEE NO.	Г		
			1362	3200F	S&DR	-5	-+	COC		85 CT NO. 6	32A 32G42			

ILLINOIS FED. AID PROJECT



				SUMMARY OF QUANTITIES	
					1. THE CONTRACTOR SHALL INSPECT THE PROJECT SITE, AND
LTE	EM NO.	QUANTITY	UNIT	PAY ITEM	THAT EFFECT THE CONTRACT AND THE DETAILED REQUIREMEN 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIF
	1.	438.3	CU.YD.	CLASS X CONCRETE	MATERIALS AND BEGINNING CONSTRUCTION.
	2.	14,115	LB.	REINFORCEMENT BARS	3. CLASS X CONCRETE SHALL BE USED THROUGHOUT.
	3.	30,870	LB.	REINFORCEMENT BARS, EPOXY COATED	4. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS
	4.	2,176	SQ.YD.	PROTECTIVE COAT (SILANE)	5. THE COST OF NON METALLIC WATER-SEALS PREFORMED FIN
	5.	502	CU.YD. EACH	CONCRETE REMOVAL ADHESIVE ANCHORAGE	THE UNIT BID PRICE PER CUBIC YARD OF CLASS X CONCI
	7	831 509	SQ.FT.	REPAIR CONCRETE STRUCTURES	CONSTRUCTION, THE CONTRACTOR'S METHOD OF SUPPORT THE ENGINEER.
	8.	2,393	CU.YD.	STRUCTURE EXCAVATION MODIFIED	6. THE BACK FACES OF RETAINING WALLS SHALL BE WATERPRO
	9.	1,680	CU.YD.	FINE OR COARSE AGGREGATE EMBANKMENT	
t i	10.	125	CU.YD.	POROUS GRANULAR EMBANKMENT	7. THE NEW CONSTRUCTION SHALL MEET ELEVATION OF ADJACE
	11.	86	LIN.FT.	PAVED DITCH (SPECIAL)	8. FOR FINE OR COARSE AGGREGATE EMBANKMENT, SEE SPECIAL
1	12.	387	SQ.YD.	PORTLAND CEMENT CONCRETE BASE COURSE 9 IN. (MODIFIED)	9. ALL EXISTING ROAD SIGNS, MARKERS, ETC. SHALL BE REM
	13. 14.	483 811	LIN.FT. LIN.FT.	PIPE UNDERDRAINS, WRAPPED PERFORATED CORRUTATED POLYETHYLENE TUBING, 6 IN. CLEANING AND PAINTING EXISTING STEEL RAILING (PIPE)	10. "SILANE" PROTECTIVE COAT SHALL BE APPLIED TO CONCRE
- F	15.	480	LIN.FT.	REMOVAL AND RE-ERECTION OF STEEL RAILING (PIPE)	STRUCTURE AREAS. THE PROTECTIVE COAT SHALL CONS (MANUFACTURED BY ADVANCED CHEMICAL TECHNOLOGIES CO.
	16.	161	LIN.FT.	FURNISHING AND ERECTINNG STEEL RAILING (PIPE)	COAT .
	17.	507	LIN.FT.	STEEL RAILING (H.S.S.T.)	11. APPLY EPOXY BONDING AGENT TO EXISTING CONCRETE WHER
17 1	18.	25	EACH	REMOVAL OF EXISTING RAILING UNIT AND REPLACEMENT	12. REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY RE
	19.	8,800	SQ.FT.	PORTLAND CEMENT CONCRETE SIDEWALK 6 IN. (MODIFIED)	13. COARSE AGGREGATE IN THE CONCRETE WILL BE REQUIRE
	20.	1,662	LIN.FT.	CONCRETE GUTTER (SPECIAL)	SPECIFICATIONS, OCTOBER 1, 1983, EXCEPT USE OF CHER
	21.	560	LIN.FT.	COMBINATION CONCRETE CURB AND GUTTER (MODIFIED)	14. FOR CONCRETE REMOVAL, SEE SECTION 501 OF THE STANDA
	22. 23.	1,369 11,818	LIN.FT. SQ.FT.	CONCRETE GUTTER (SPECIAL) COMBINATION CONCRETE CURB AND GUTTER (MODIFIED) CONCRETE GUTTER REMOVAL CONCRETE SIDEWALK REMOVAL STORM SEWERS, TYPE 2 (CSP CLASS 1) 8 IN. STORM SEWERS, TYPE 2 (SCP CLASS 1) 10 IN. STORM SEWERS, TYPE 2 (RCCP CLASS 11) 12 IN. STORM SEWERS, TYPE 2 (RCCP CLASS 11) 18 IN.	DISPOSAL OF CURE WALLS BY THE CONTRACTOR. CONCR PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD
	24.	25	LIN.FT.	STORM SEWERS, TYPE 2 (CSP CLASS 1) 8 IN.	IS EVICATING DETNEODORMENT DADE TO DEWATH IN DEADE AG
- E	25.	25	LIN.FT.	STORM SEWERS, TYPE 2 (CSP CLASS 1) 10 IN.	15. EXISTING REINFORCEMENT BARS TO REMAIN IN PLACE AS BEING TIED TO NEW REINFORCEMENT BARS OF THE PRE
	26.	143	LIN.FT.	STORM SEWERS, TYPE 2 (RCCP CLASS III) 12 IN.	PRICE BID PER CUBIC YARD OF THE "CONCRETE REMOVAL".
	27.	1,192	LIN.FT.	STORM SEWERS, TYPE 2 (RCCP CLASS III) 18 IN.	- 16. FOR ANCHORAGE OF REINFORCEMENT BARS INTO EXISTING C
	28.	127	LIN.FT.	STORM SEWERS, TYPE 2 (RCCP CLASS III) 24 IN.	17. REMOVAL AND RE-ERECTION OF STEEL RAILING (PIPE):
	29.	25	LIN.FT.	STORM SEWERS, TYPE 1 (DUCTILE IRON PIPE AWWA C151) 6 IN.	CAREFULLY, STORED, AND RE-ERECTED WHEN THE RETAI ANCHORAGES, SEE SPECIAL PROVISIONS. A 1/8 IN. FABR
	30. 31.	25 50	LIN.FT. LIN.FT.	STORM SEWERS, TYPE 1 (DUCTILE IRON PIPE AWWA C151) 8 IN. EXPLORATION TRENCH (52 IN. DEPTH)	THE CONCRETE COST INCIDENTAL TO THE RAILING PAY I FOR REMOVAL AND RE-ERECTION OF STEEL RAILING (PIPE)
	32.	9	EACH	CATCH BASINS, TYPE C, 2 FT. DIA. WITH FRAMES AND GRATES	ERECTION.
	33.	9	EACH	MANHOLES, TYPE A, 4 FT. DIA. WITH FRAMES AND GRATES	18. CLEANING AND PAINTING EXISTING STEEL RAILING (PIF
	34.	5	SQ.YD.	PAVEMENT REPLACEMENT	THE SOO LINE RAILROAD BRIDGE AND THE EXISTING REMAI PROVISIONS. METHOD II WILL BE USED FOR CLEANING
and .	35.	5	CU.YD.	TRENCH BACKFILL	STEEL SURFACES AND THE TOP OF SIDEWALKS, CURBS AND
198 -	36.	1	EACH	PLUGGING EXISTING DRAINS AND SEWERS (12 IN. OR LESS)	NUTS SHALL BE PAINTED WITH ONE SHOP COAT OF LEAD CE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PE
	37.	1	EACH	PLUGGING EXISTING DRAINS AND SEWERS (OVER 12 IN.)	19. PIPE HANDRAIL: STEEL PIPE HANDRAIL SHALL BE IN ACC
1	38.	29	EACH	CATCH BASINS, 18 IN. DIA. WITH FRAMES AND GRATES	ALL STEEL RAILING, RAIL SPLICES. PLATES, ANCHOR
	39.	1	EACH	CATCH BASINS, TYPE A2, 4 FT. DIA. WITH FRAMES AND GRATES	LEAD/CHROMATE FREE ALKYD PAINT PRIMER AND TWO FIELD THE STEEL COMES IN CONTACT WITH THE CONCRETE. TH
	40.	1	EACH	CATCH BASINS TO BE RECONSTRUCTED	FOR FURNISBING AND ERECTING STEEL RAILING (PIPE) ME MATERIALS, FABRICATION, TRANSPORTATION AND ERECTION
1	41.	1	EACH	CATCH BASINS TO BE RECONSTRUCTED, SPECIAL CLEANING EXISTING CATCH BASINS	20.) PEDESTRIAN HANDRAILING: PIPE STEEL RAILING SHALL
	42. 43	1	EACH EACH	MANHOLES TO BE RECONSTRUCTED	NOTED. HOLLOW STRUCTURAL STEEL TUBING (H.S.S.T.)
\$	44.	1	EACH	MANHOLES TO BE RECONSTRUCTED, SPECIAL	STRUCTURAL STEEL TUBING. ALL OTHER STEEL SHAPES A AND ANCHOR BODS SHALL BE PAINTED AFTER SHOP-FABRICA
	45.	1	EACH	CLEANING EXISTING MANHOLES	FIELD COATS OF ALUMINUM PAINT. STEEL RAILING WI (H.S.S.T.) MEASURED AS SPECIFIED WHICH PRICE SHAI
	46.	1	EACH	CLEANING EXISTING INLETS	ANCHORAGE. THE PRE-MEASURED EPOXY ADHESIVE GROU
	47.	25	LIN.FT.	CLEANING EXISTING STORM SEWERS (12 IN.)	PROVISION FOR ADHESIVE ANCHORAGE EXCEPT THE EMBEDME THE RAILING ANCHORS IN THE EPOXY GROUT SHALL BE INC
	48.	25	LIN.FT.	CLEANING EXISTING STORM SEWERS (18 IN.)	21. REPLACING RAILING BETWEEN PIER COLUMNS: IF THE
	49.	1	EACH	CATCH BASINS TO BE ADJUSTED	BECAUSE OF THE EXCESSIVE CORROSION. THIS RAILING UN CONTRACT UNIT PRICE EACH FOR REMOVAL OF EXISTING RA
	50. 51.	. 1	EACH EACH	MANHOLES TO BE ADJUSTED INLETS TO BE ADJUSTED	DIAMETER EXTRA STRONG STEEL PIPE WITH TWO STEEL CIP
	51. 52.	2	EACH	MANHOLES, TYPE A, 5 FT. DIA. WITH FRAMES AND GRATES	IS INCLUDED IN CLEANING AND PAINTING EXISTING STEEL
	53.	6,500	LIN.FT.	PAVEMENT MARKING TAPE, TYPE III-LINE	22. PLANS OF EXISTING FACILITIES ARE ON FILE AT THE COC ROOM 939. THE CONTRACTOR MAY SEE AND EXAMINE THEM
	54.	500	SQ.FT.	REMOVAL OF PAVEMENT MARKINGS	
	55.	800	LIN.FT.	TEMPORARY CONCRETE BARRIER	23. THE CONTRACTOR WILL BE REQUIRED TO FURNISH RAILROAD CONSTRUCTION ARTICLES 107.11 AND 107.12 AND SPECIAL
	56.	814	LIN.FT.	RELOCATE TEMPORARY CONCRETE BARRIER	24. SODDING: SHALL BE PLACED ON A THREE (3) FOOT STRIN
	57.	3,000	LIN.FT.	THERMOPLASTIC PAVEMENT MARKING-LINE 4 INCH	SUPPLEMENTAL WATERING, WHICH IS TO BE USED AFTER TH
	58.	~	LUMP SUM	TRAFFIC PROTECTION	USED AT THE RATE OF 10 GALLONS PER SQUARE YARD OF 3
	59. 60.	2 4,050	EACH SQ.YD.	TEMPORARY CONCRETE BARRIER, TERMINAL SECTION BITUMINOUS SURFACE REMOVAL	25. FERTILIZER NUTRIENTS: USE A FERTILIZER WITH AN AN/ NITROGEN FERTILIZER NUTRIENT-80 LBS.
	6U. 61.	4,050	GAL.	BITUMINOUS SORFACE REMOVAL BITUMINOUS MATERIALS (PRIME COAT)	PHOSPHORUS FERTILIZER NUTRIENT-48 LBS.
	62.	9	TON	AGGREGATE (PRIME COAT)	POTASSIUM FERTILIZER NUTRIENT-32 LBS. 3" TOP SOIL LAYER SHALL BE SPREAD AS INDICATED ON S
	63.	500	TON	LEVELING BINDER (MACHINE METHOD)	26. PROVIDE SHEETING AND BRACING IF THE EXISTING SHEET)
	64.	380	TON	BITUMINOUS CONCRETE BINDER COURSE	TO PROTECT THE HIGHER FOOTING DURING CONSTRUCTION.
	65.	174	LIN.FT.	CUTTING BITUMINOUS SURFACE SPECIFICATIONS	INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD OF S' (MODIFIED),
Tanan dila	66.	380	TON	BITUMINOUS CONCRETE SURFACE COURSE, CLASS 1 1. THE STANDARD SPECIFICA	TIONS FOR ROAD AND BRIDGE 27 THE CONTRACTOR SHALL PROVIDE SHORING OF THE COLUMNS
	67.	80	SQ.YD.	SODDING CONSTRUCTION ADOPTED OCTOB	ER 1, 1983 AND SUPPLEMENTAL IF THE STRUCTURE ADEQUACY OF THE COLUMN IS REQUIRE NG SPECIAL PROVISIONS ADOPTED
	68. 69	507	CAL.MO.	ENGINEER 5 FIELD OFFICE, HIFE A OCTOBER 1, 1986 ILLINOIS D	EPARTMENT OF TRANSPORTATION.
	69. 70.	507 387	LIN.FT. SQ.YD.	RECONSTRUCTION OF PIER CURB PAVEMENT REMOVAL 2. SPECIAL PROVISIONS.	
This .	70.	480	SQ.ID. LIN.FT.	PAVENEN1 REFOVAL	OR HIGHWAY BRIDGES, 1983 AND
	72.	1,382	LIN.FT.	SAMING D.C. CONCRETE DAVEMENT (FULL DEDTU) 1985 INTERIM SPECIFICATI	ONS, AMERICAN ASSOCIATION OF
183	73.	-,	LUMPSUM	CONSTRUCTION LAYOUT STAKES STATE HIGHWAY AND	TRANSPORTATION OFFICIALS.
10	74	75	LIN.FT.	COMBINATION CURB AND GUTTER REMOVAL	
	75.0	75	LIN.FT.	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	
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RAL NOTES

ARIZE HIMSELF WITH ALL EXISTING CONDITIONS, TRAFFIC AND OTHER ITEMS ONSTRUCTION

COUNTY PROGRAM SHEET

ITEM No. YEAR No. 64 1988 2

IMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO ORDERING

A.S.H.T.O., M-31 OR M-53 GRADE 60.

NT FILLER SHALL NOT BE PAID FOR SEPARATELY. BUT SHALL BE INCLUDED IN THIS ITEM SHALL NOT BECOME BENT, TORN, OR DISTORTED DURING RACING AND PROTECTING THE PREFORMED FIBER JOINT SHALL BE APPROVED BY

CORDING TO ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS.

VAY.

SIONS.

RESET BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER

WALKS, GUTTERS, TOPS, EXPOSED VERTICAL FACES OF WALLS AND REPAIRED 40 PERCENT BY WEIGHT ALKYLTRIALKOXY SILANE IN ANHYDROUS ISOPROPANOL MA CITY) OR EQUIVALENT, SEE SPECIAL PROVISIONS FOR SILANE PROTECTIVE

NG NEW CONCRETE. COST INCIDENTAL TO CLASS X CONCRETE.

FED

TT THE QUALITY STANDARDS SPECIFIED IN ARTICLE 704.01 OF THE STANDARD GATE SHALL NOT BE PERMITTED.

IFICATIONS. THE CONCRETE REMOVAL INCLUDES REMOVAL AND SATISFACTORY OVED SHALL NOT BE USED AS BACKFILL IN THE PROJECT. THIS WORK WILL BE CRETE REMOVAL.

N THESE PLANS SHALL BE THOROUGHLY CLEANED BY SANDBLASTING BEFORE REA. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT UNIT

SEE SPECIAL PROVISIONS FOR ADHESIVE ANCHORAGE.

NOWN ON THE PLANS. THE EXISTING STEEL PIPE RAILING TO BE REMOVED ALL IS REBUILT. THE EXISTING HANDRAIL WILL BE RE-ERECTED ON NEW WILL BE PROVIDED FOR BACH POST WHEREVER THE STEEL IS IN CONTACT WITH FILS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAL FOOT AED AS SPECIFIED WHICH PRICE SHALL BE PAYMENT IN FULL FOR REMOVAL AND

SHOWN ON THE PLANS, THE EXISTING STEEL RAILS BETWEEN THE COLUMNS OF LIING, WILL BE CLEANED AND FAINTED IN ACCORDANCE WITH THE SPECIAL LING. ALL LOOSE ABRASIVES, PAINT RESIDUE, SHALL BE REMOVED FROM THE WITH A VACUUM SYSTEM. ALL RAILING, POSTS, PLATES, ANCHOR RODS AND FREE ALKYD FAINT FRIMER AND TWO FIELD COATS OF ALUMINUM PAINT. THIS L FOOT FOR CLEANING AND FAINTING STEEL RAILING (PIPE).

E WITH SECTION 635 OF THE STANDARD SPECIFICATION. EXCEPT AS NOTED. IND NUTS SHALL BE PAINTED AFTER SHOP-FABRICATION WITH ONE COAT OF OF ALUMINUM PAINT. A 1/8 IN. FABRIC FAD WILL BE PROVIDED WHEREVER RAILING WILL BE PAID FOR AT THE CONTRACT UNIT FRICE PER LINEAL FOOT AS SPECIFIED, WHICH FRICE SHALL BE PAYMENT IN FULL FOR ALL

ACCORDANCE WITH SECTION 508 OF THE STANDARD SPECIFICATIONS, EXCEPT AS CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION A-500-GRADE B TES SHALL CONFORM TO AASHTO M-183. ALL RAILING, RAIL SPLICES, PLATES ITH ONE SHOP COAT OF LEAD CHROMATE FREE ALKYD PAINT PRIMER AND TWO FAID FOR AT THE CONTRACT UNIT PRICE PER LINEAL FOOT FOR STEEL RAILING AYMENT IN FULL FOR ALL MATERIALS, FABRICATION, TRANSFORTATION AND F THE STEEL RAILING ANCHORAGE WILL BE IN ACCORDANCE WITH THE SPECIAL L BE AS SHOWN ON THE PLANS, FURNISHING OF THE GROUT AND SETTING OF IN THE CONTRACT UNIT PRICE FOR STEEL RAILING (H.S.S.T.).

TION OF THE RAILING BETWEEN PIER COLUMNS DOES NOT ALLOW TO USE THEM LL BE REPLACED WITH A NEW ONE. THIS WORK WILL BE PAID FOR AT THE INIT AND REPLACEMENT. THE UNIT CONSISTS OF A 4 FT. 8 IN. LONG, 3 IN. INCHORAGE PLATES AND EIGHT ANCHOR BOLTS, FOUR AT EACH END. PAINTING (PIPE)

Y HIGHWAY DEPARTMENT, 118 N. CLARK ST., CHICAGO, ILLINOIS 60602. IN INFORMATION.

NCE TO COMPLY WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE ION: RAILROAD INSURANCE REQUIREMENTS AND FLAG MAN PROTECTION.

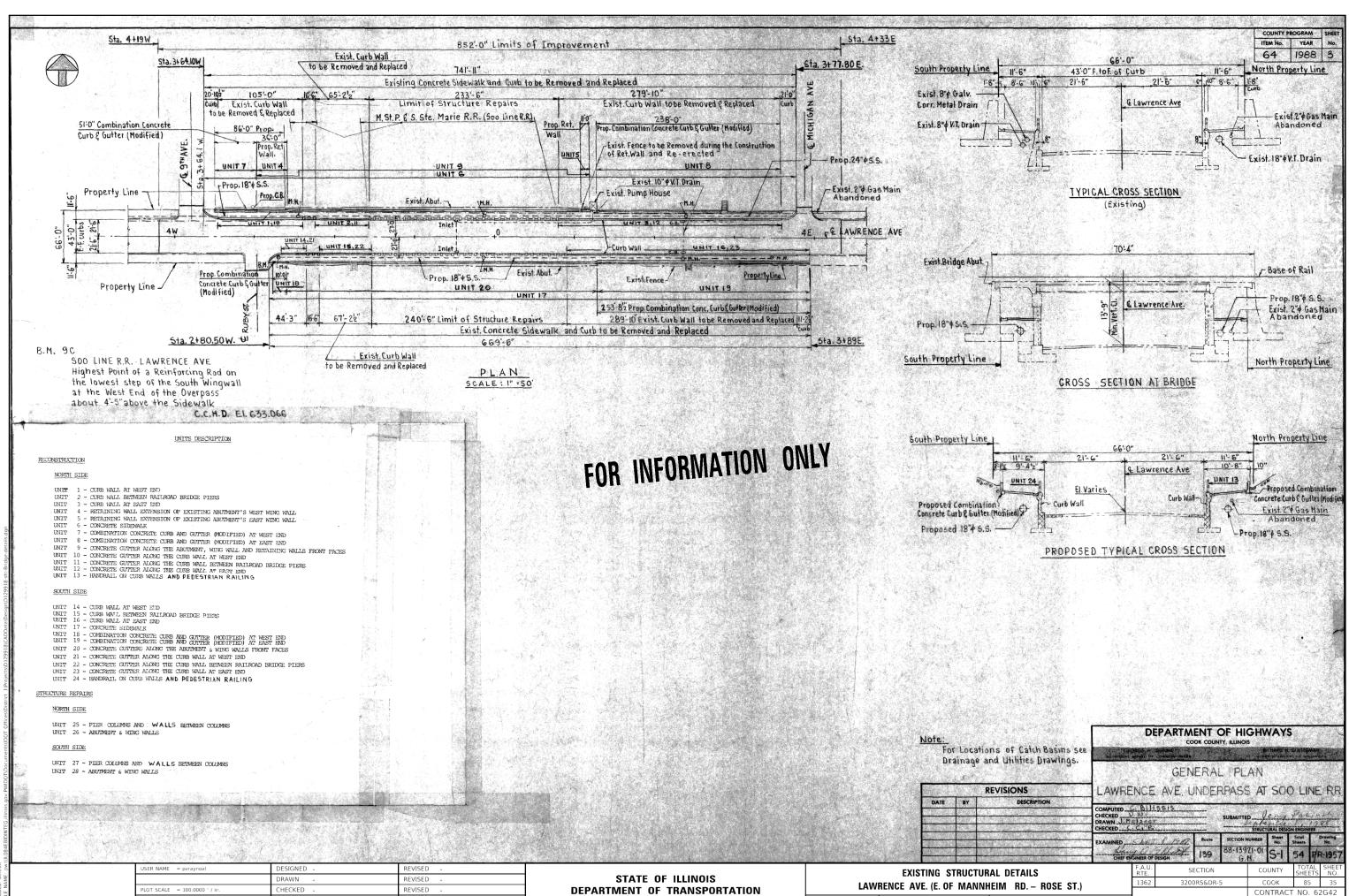
NT TO THE CURB AS SHOWN ON PLAN, INCLUDING FERTILIZER NUTRIENTS. AL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) SHALL BE SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED.

10-6-4, OR SIMILAR 5-3-2 RATIO, AT THE FOLLOWING RATE PER ACRE:

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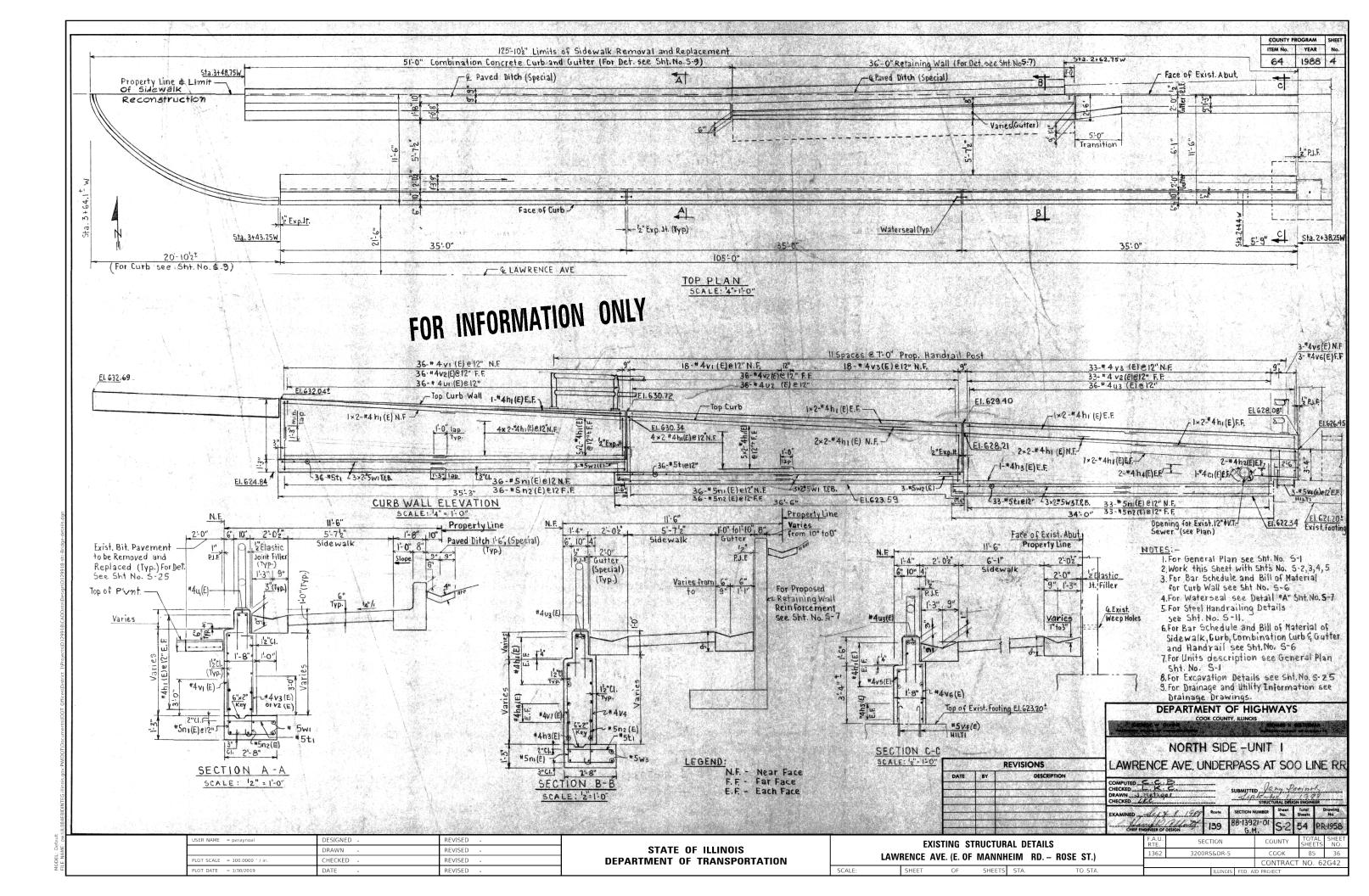
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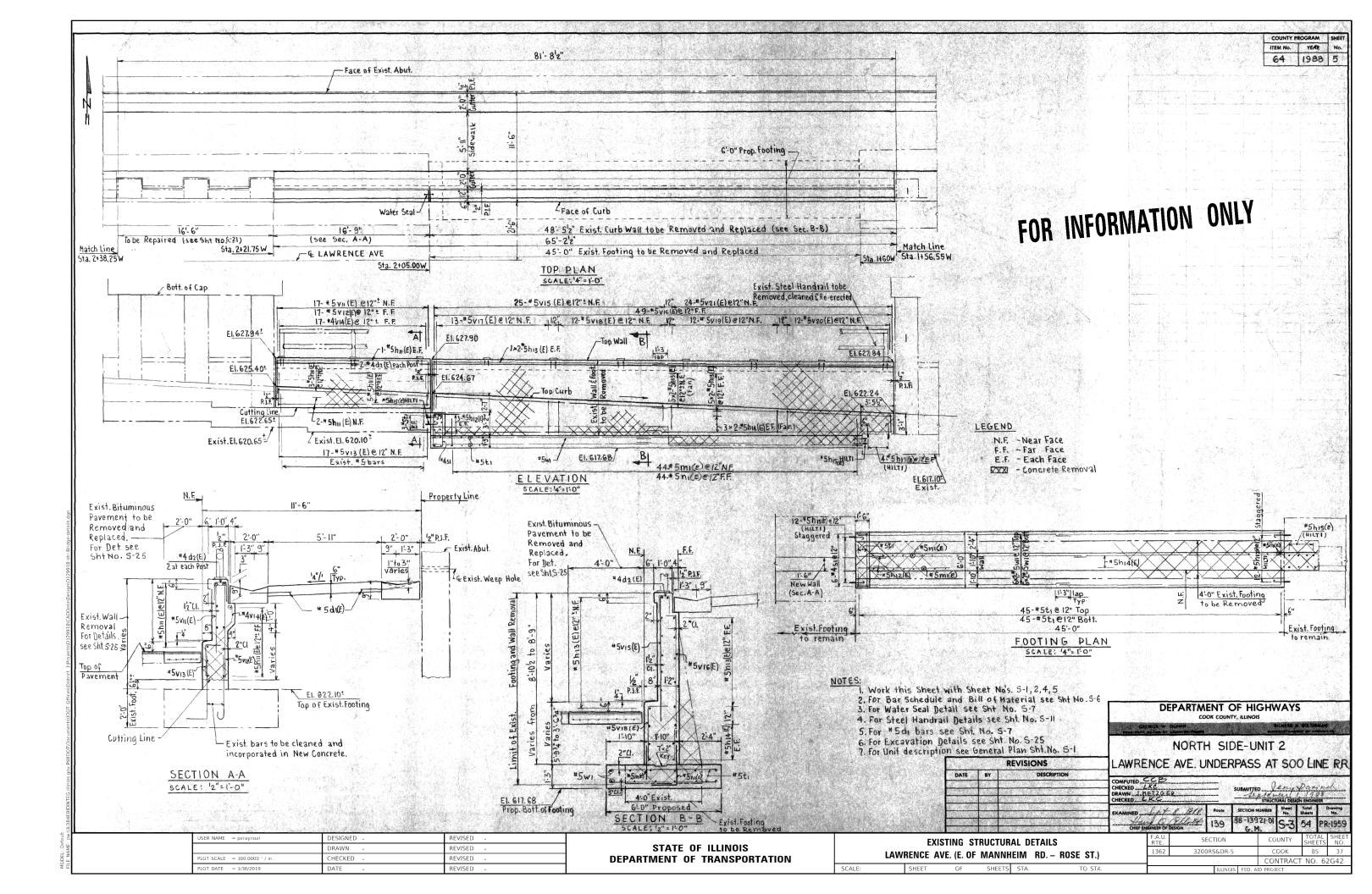
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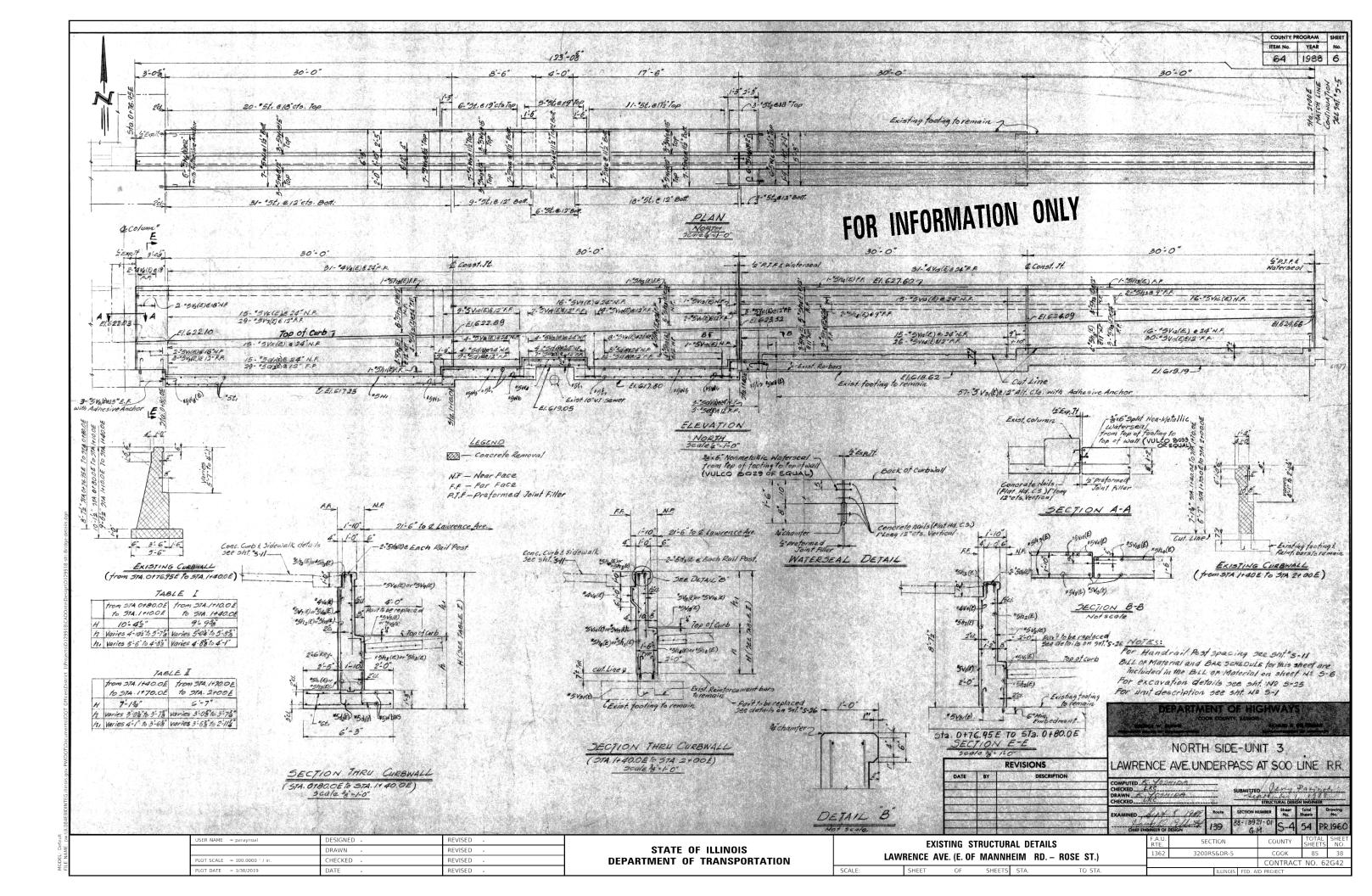
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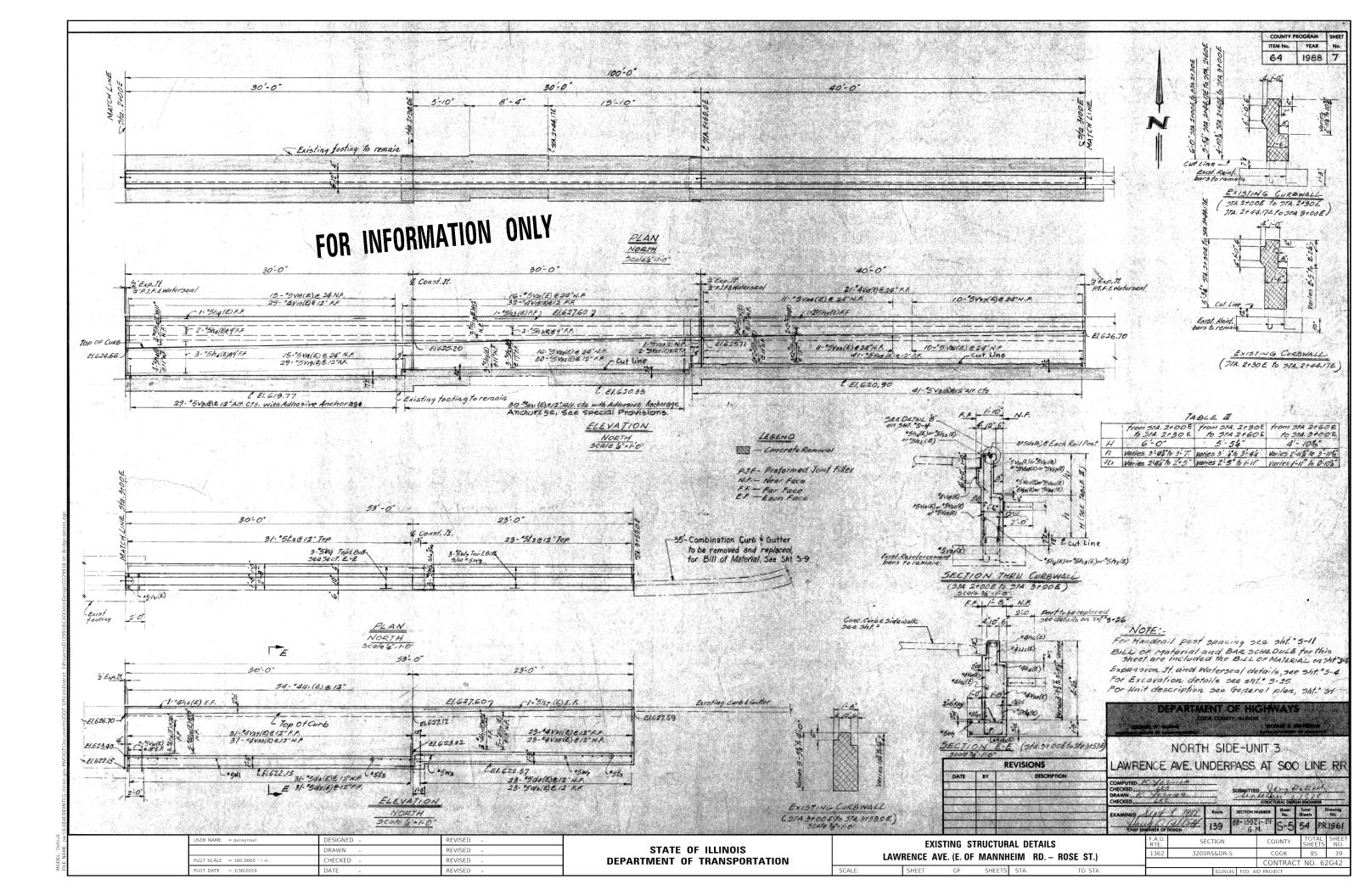
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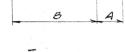








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54 4 105 4 51 4 5 4 5 4 5 4 5 3 4 5 5 5 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5'.1' 4'-0 * 3'-6* 3'-1* 4-3* 4'-3* 18'-9* 5'-1" 17'-6* 3'-1* 16'-6* 3'-1* 16'-6* 24'-9* 24'-9* 24'-0"		21 21 21 21 21 21 21 21 21 21 21 21 21 2		1-0" 9" 9" 2-6" 9" 9" 1-6"	" d-1" " 3-3" " 2- 9 " " 3-0" " 3-6" " 2-1"	• • •				
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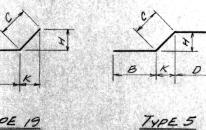


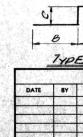


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		DRAWN -	REVISED -	STATE OF ILLINOIS	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	
	PLOT DATE = 1/30/2019	DATE -	REVISED -		SCALE:

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EXISTING STRUCTUR LAWRENCE AVE. (E. OF MANNI

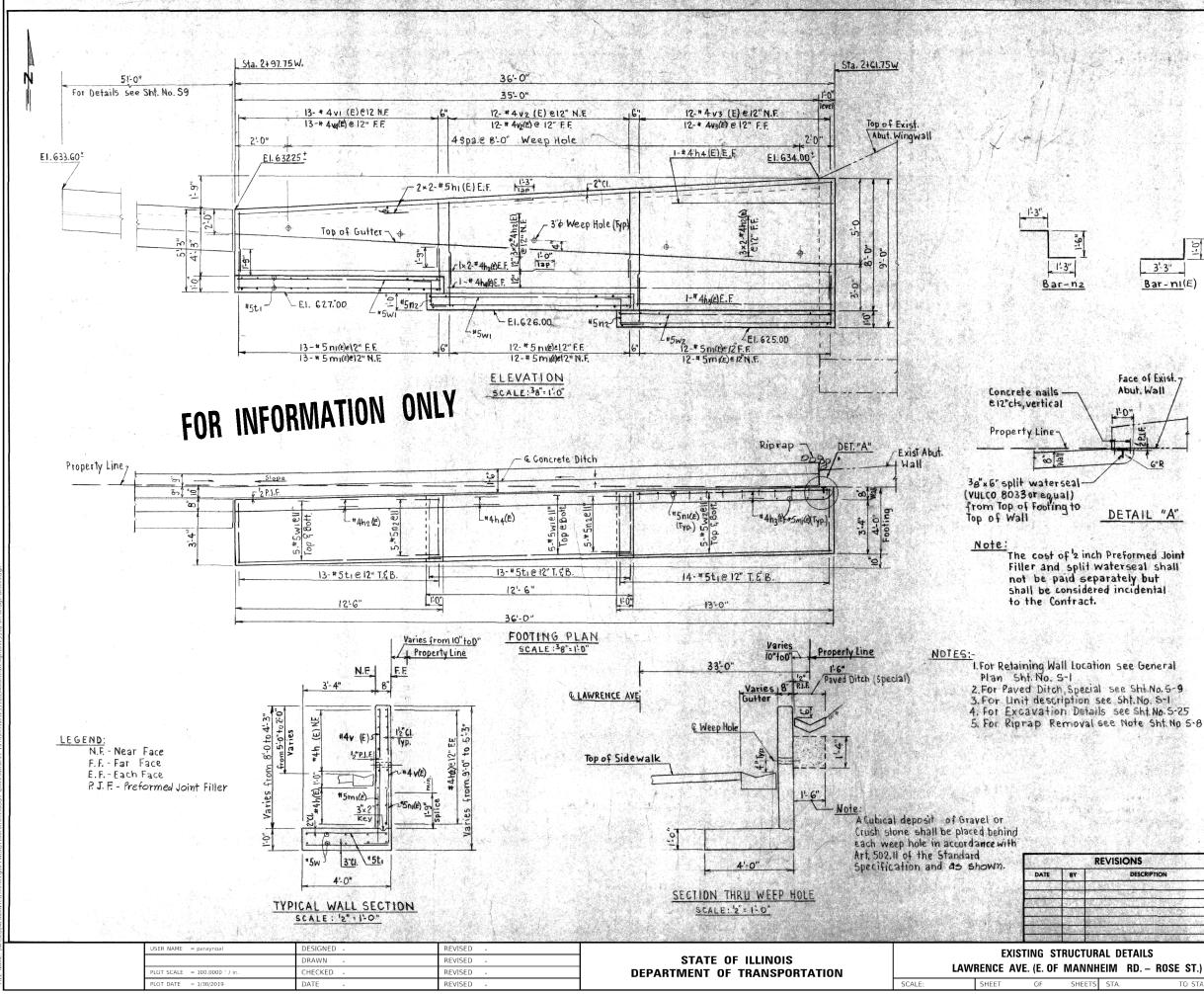
SHEET OF SHEET

		전 영상 문제 문제		COUNTY P	ROGRAM	SHEE
				ITEM No.	YEAR	No.
				64	1988	8
BILL OF MATE	RIAL (1	For Nor	RTH CUR	BW4LL)		
BILL OF MATE		For Nor	RTH CUR. BUAN			
BILL OF MATE ITEM	RIAL (1	For NOR			70744	
ITEM			QUAN	TITLES	<u> </u>	
I TEM Class X. Concrete	UNIT	ANIT I	QUAN UNIT 2	HNIT 3 111.7	197	1
[1EM Class X. Concrete Rainforcement Bars	4~17 C4.4d	44.2 960	OUAN UNIT 2 41.2 1,200	THTIES UNIT 3 111.7 2,340	197	2
ITEM Class X Concrete Reinforcement Bars Reinforcement Bars, Epoxy Coated	41417 Cu. Yd Lb	44.2	QUAN UNIT 2 41.2	HNIT 3 111.7	197	030
	44417 Cu. Yd Lb Lb	44.2 9 6 0 2,980	OUAN. UNIT 2 41.2 1,200 2,790	TIFIES 4NIT 3 111.7 2,340 7,760	197 4,50 13,53	1 0 30 4

FOR INFORMATION ONLY

<u>Nóte:</u> North Curbwall Unit 1-Details, See Sht No. 5-2 North Curbwall Unit 2 Details, See Sht. No. 5-3 North Curbwall Unit 3 Details, See Sht No. 5-4 f 55

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20 REVISIONS DESCRIPTION		L OF	NORTH SI MATERIA AVE. UNDE	_ & BA	RS	CHÉ	DUL	229	RR
DESCRIPTION	COMPUTED CHECKED DRAWN CHECKED	K.K.C.		SUBMITTE	pash be	MAL DESK	198	8	2000 1900
		SINEER OF DE	8 1918 Route 2010 - 139	SECTION 1 88-139 G.		S-6	Total Sheets		No. 1962
RAL DETAILS	and the second	F.A.U. RTE.	SECTION		COL	JNTY	TOT		SHEET NO.
IHEIM RD. – ROSE ST.)		1362	3200RS&DI	₹-5			85 T NO	·	40
S STA. TO STA.			ILLI	IOIS FED. A	ID PROJE	ITRAC	TINU	. vZ	642



401 	BA	R S	CHED	ULE	(UNIT	4)
Ma	CONV.	No	Size	Length	Shape	Remar
hi(E)		8	5	18'-6"		
h2(E)		16	4	18'-6"		
h3 (E)		2	4	11-8"	<u> </u>	
h4(E)		4	4	23'-2"		
			1. 1. 1.	-	4	
					e. e	
						9. S. 199
mi(E)	19. Ye	37	5	2'-9"	P	
	$a_{1}(A_{1}, \dots, A_{n})$					
n(E)	jan .	37	5	4'-3"		
	n2	10	5	4'-0"		
•						
	tı	80	5	3'-9"		
1944) 1944)		3 M. 3		1	1	
	WI	20	5	12-2"	<u> </u>	S. 2018 (M
	W2	10	5	12'-8"		
	1					
VI (E)		13	4	4'-0"	رد. منظنیت ا	the state of the
V2 (E)	19 14	24	4	5'-4"		16.2
V3 (E)		24	4	7'-1"		in the second
V4 (E)	A. S. A.	13	4	3'-7"		

COUNTY PROGRAM ITEM No. YEAR

64 1988 9

No

3'-3" Bar-ni(E)

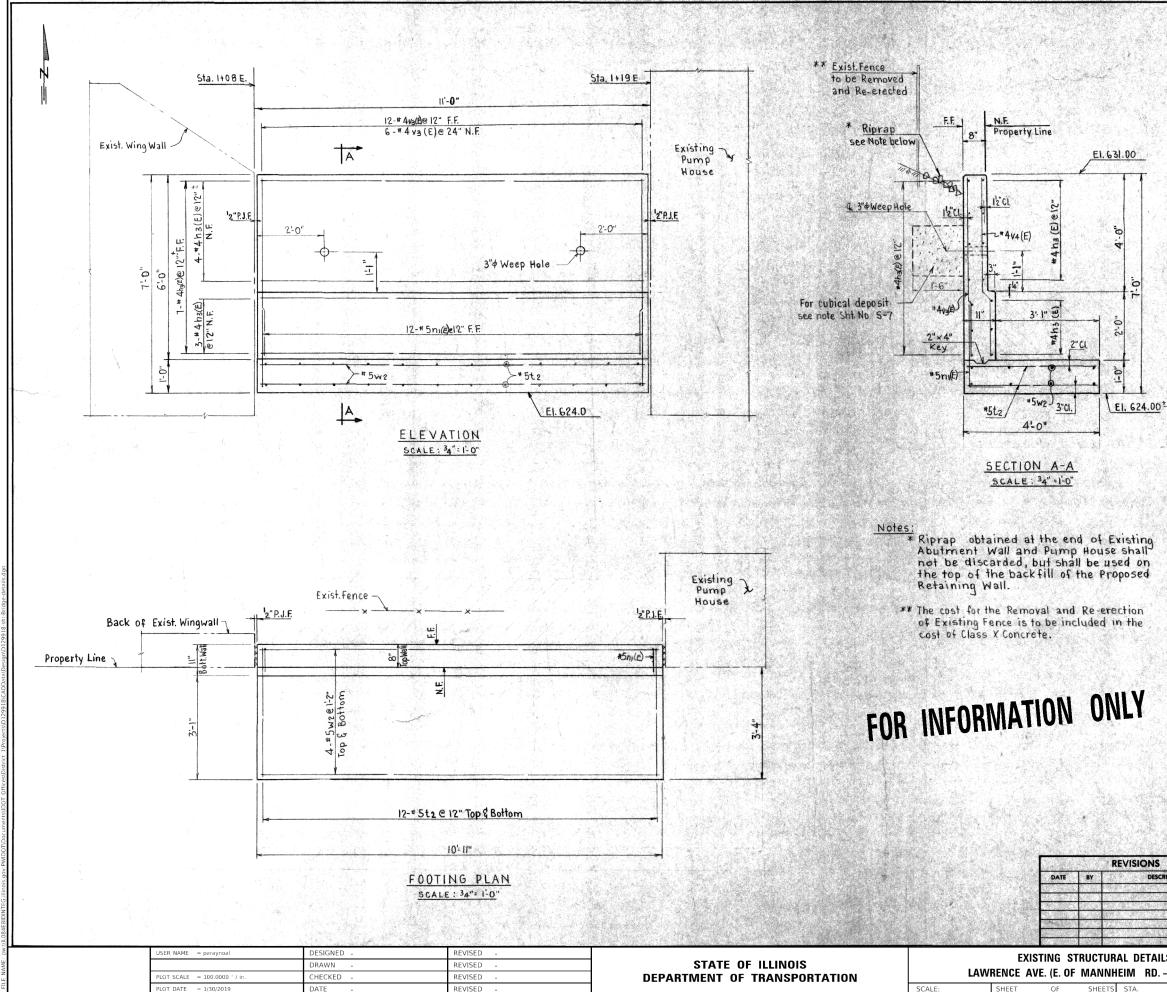
Face of Exist. 7 Abut, Wall

DETAIL "A"

Reinforcement Bars Designated (E) shall be Epoxy Coated.

BILL OF MATER	IAL (U	NIT 4)
IIEM	UNIT	QUANTITY
Class X Concrete	Cu.Yd	13.4
Reinforcement Bars	Lb	760
Reinforcement Bars, Epoxy Coated	Lb	950
Protective Coat (Silane)	Sq.Yd	18
		114

		DEP.	COOK COU			S M. GOLTH	
REVISIONS	LAWRE		orth Sii Ve. Undei		Succession States	o lin	IE RR
DESCRIPTION	COMPUTED CHECKED DRAWNJ.N CHECKEDZ	KC 1etzaes	<u></u>	SUBMITTE		Datin 198 GN ENGINE	8
	EXAMINED	Left 8	1998 Route	SECTION N	IUMBER Sheet No.	Total Sheets	Drawing No.
	- Han		139	88-139 G	21-01 S-7	54	PR-1963
RAL DETAILS		F.A.U. RTE.	SECTION		COUNTY	TOT/ SHEE	
IHEIM RD. – ROSE S	T \	1362	3200RS&DR	-5	СООК	85	41
-	,				CONTRAC	CT NO.	62G42
S STA. TO	STA.		ILLIN	DIS FED. A	ID PROJECT		



BAR SCHEDULE (UNIT 5) No Size Length Shape Remarks Mark 14 4 10'-9" ---h3(E) ni(E) 12 3-6" -5 24 5 3'-8" t2 10-8" 8 5 W2 12 4 5-9" V3(E) V4(E) 6 4 5'-10" ___

COUNTY PROGRAM ITEM No. YEAR

64 1988 10

No

Reinforcement Bars Designated (E) shall be Epoxy Coated.



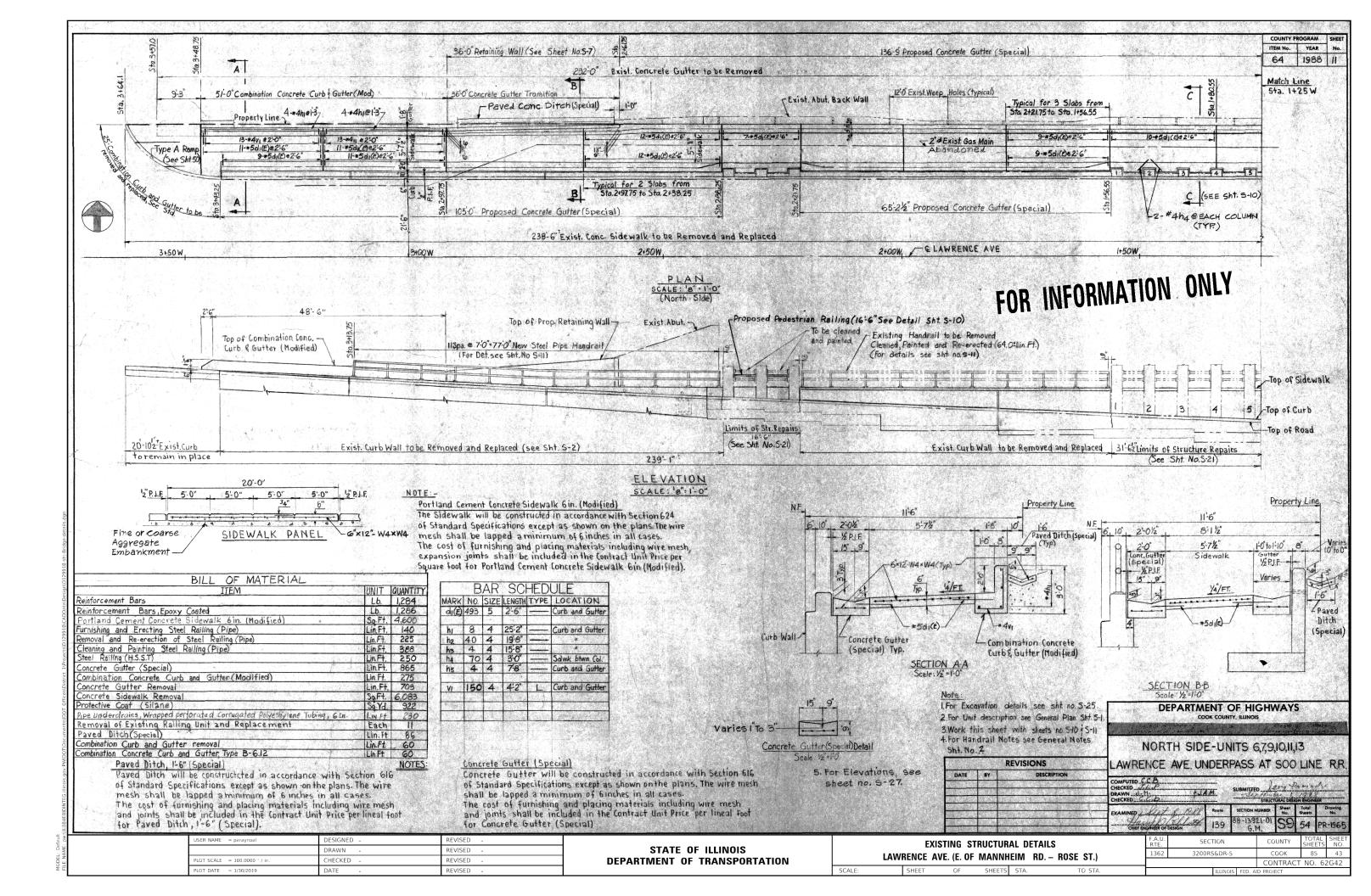


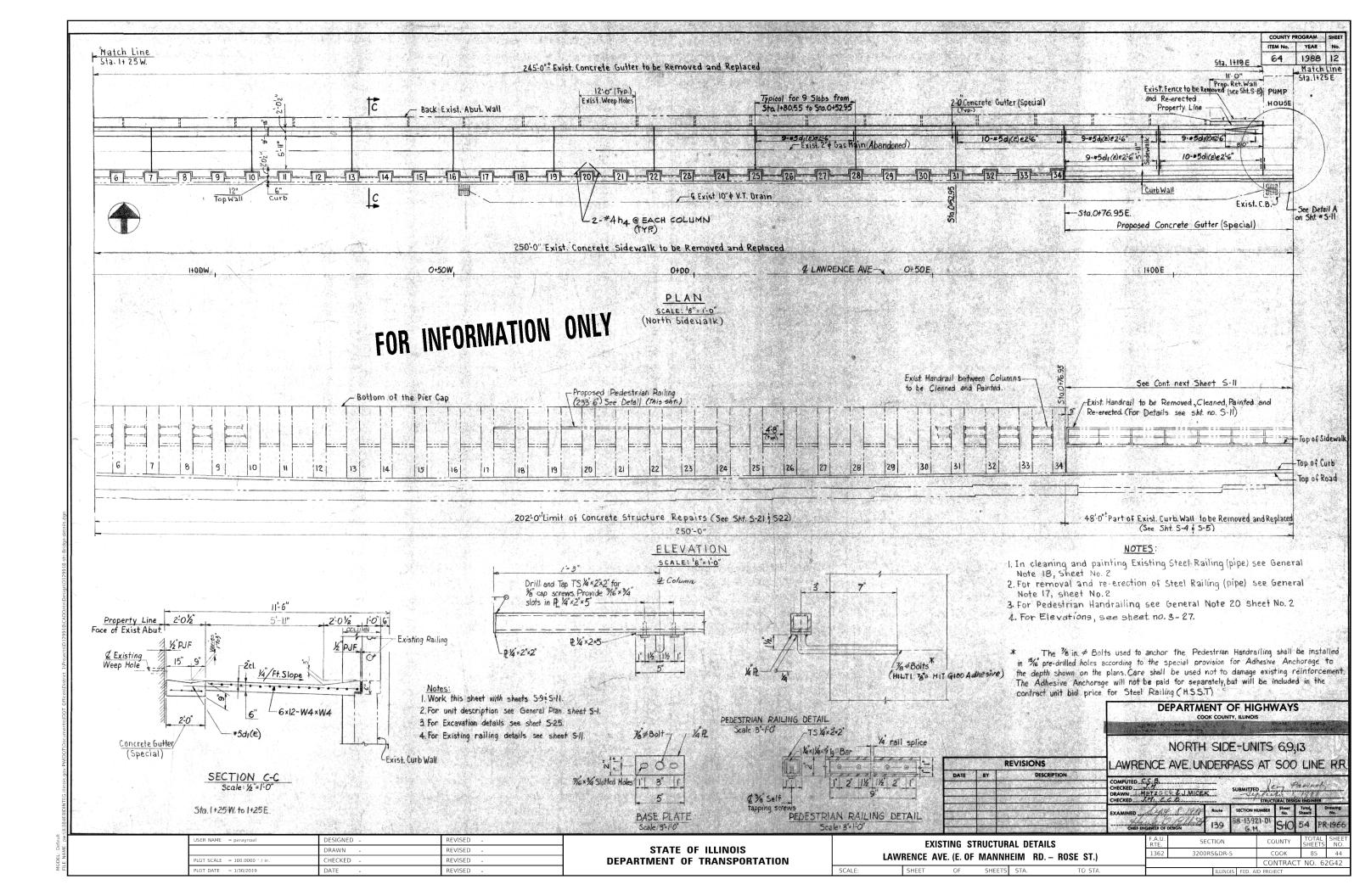
BILL OF MATERIAL	(UN	IIT5)
ITEM	UNIT	QUANTITY
Class X Concrete	Cu.Yd	3.5
Reinforcement Bars	Lb	158
Reinforcement Bars, Epoxy Coated	Lb	242
Protective Coat (Silane)	Sq.Yd	5
	in a direction	
No. 1997 Anna Anna Anna Anna Anna Anna Anna Ann	1	1.3

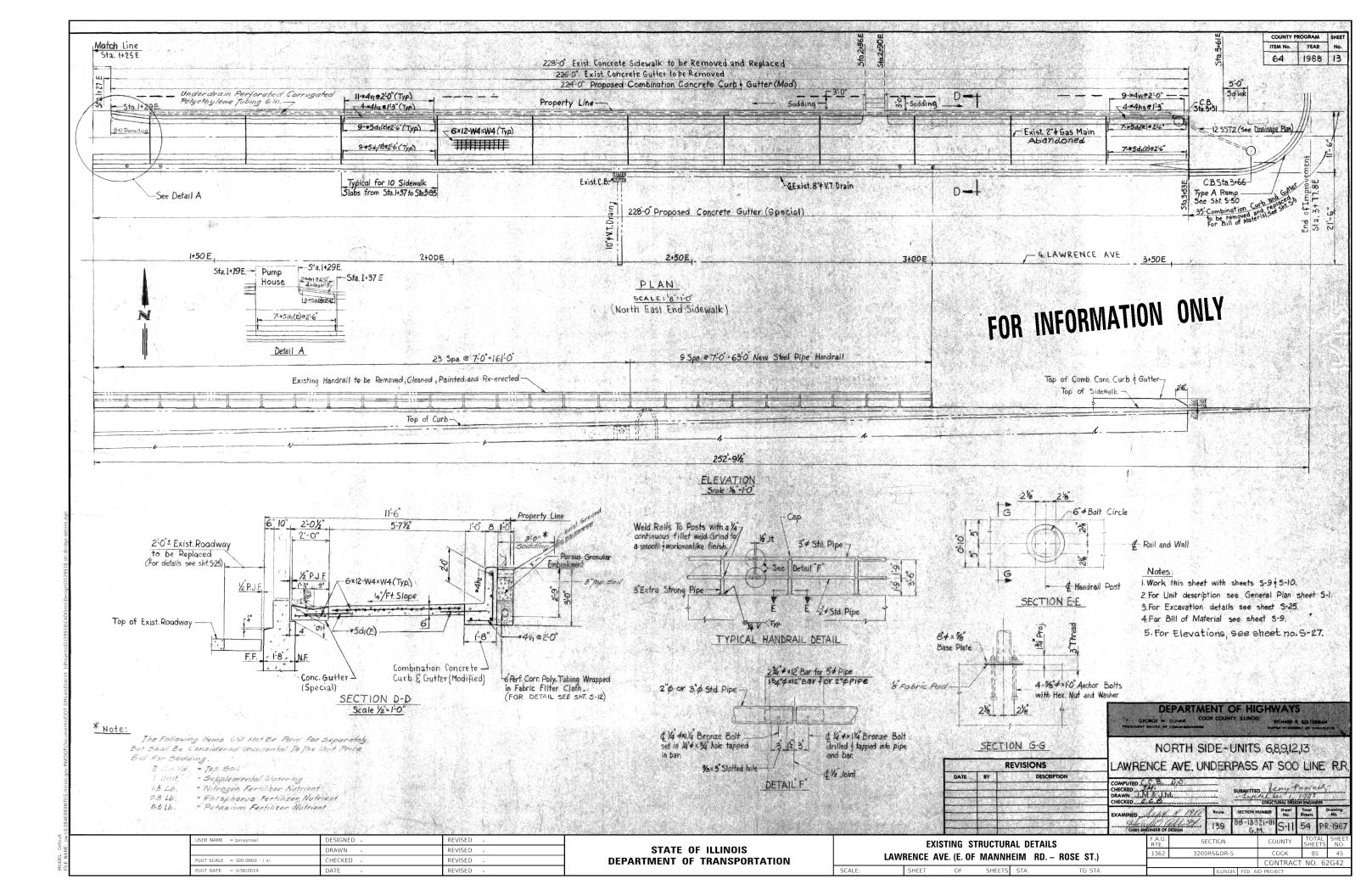
NOTES

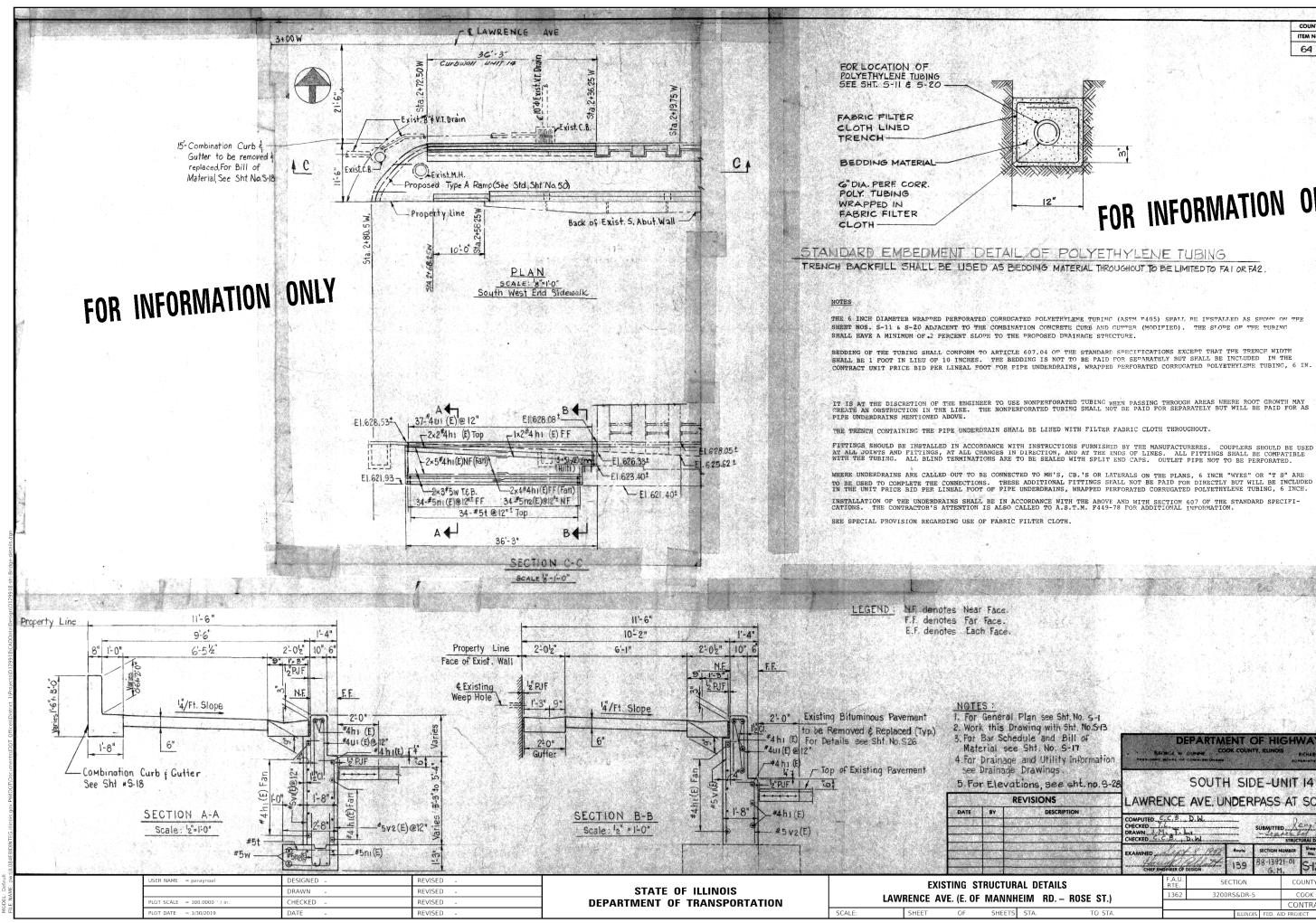
- I. For Excavation Details and Bill of Material see Sht. No. 5-25
- 2. For Unit description see General Plan Sht. No. 5-1

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HEIM RD. – ROSE ST	'		ILLING	СО	NTRAC		62G42







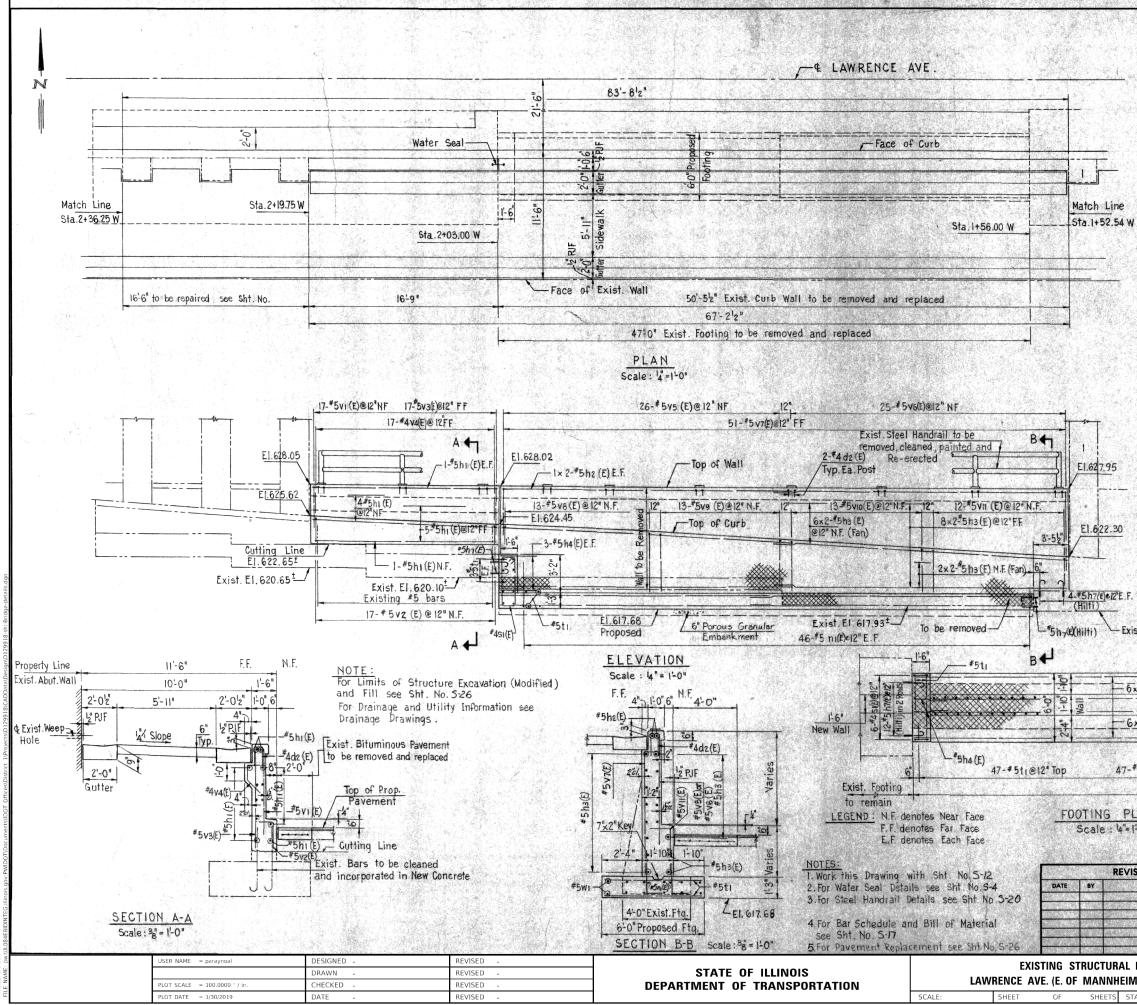


	COUNTY P	ROGRAM	SHEET
1	ITEM No.	YEAR	No.
	64	1988	14

FOR INFORMATION ONLY

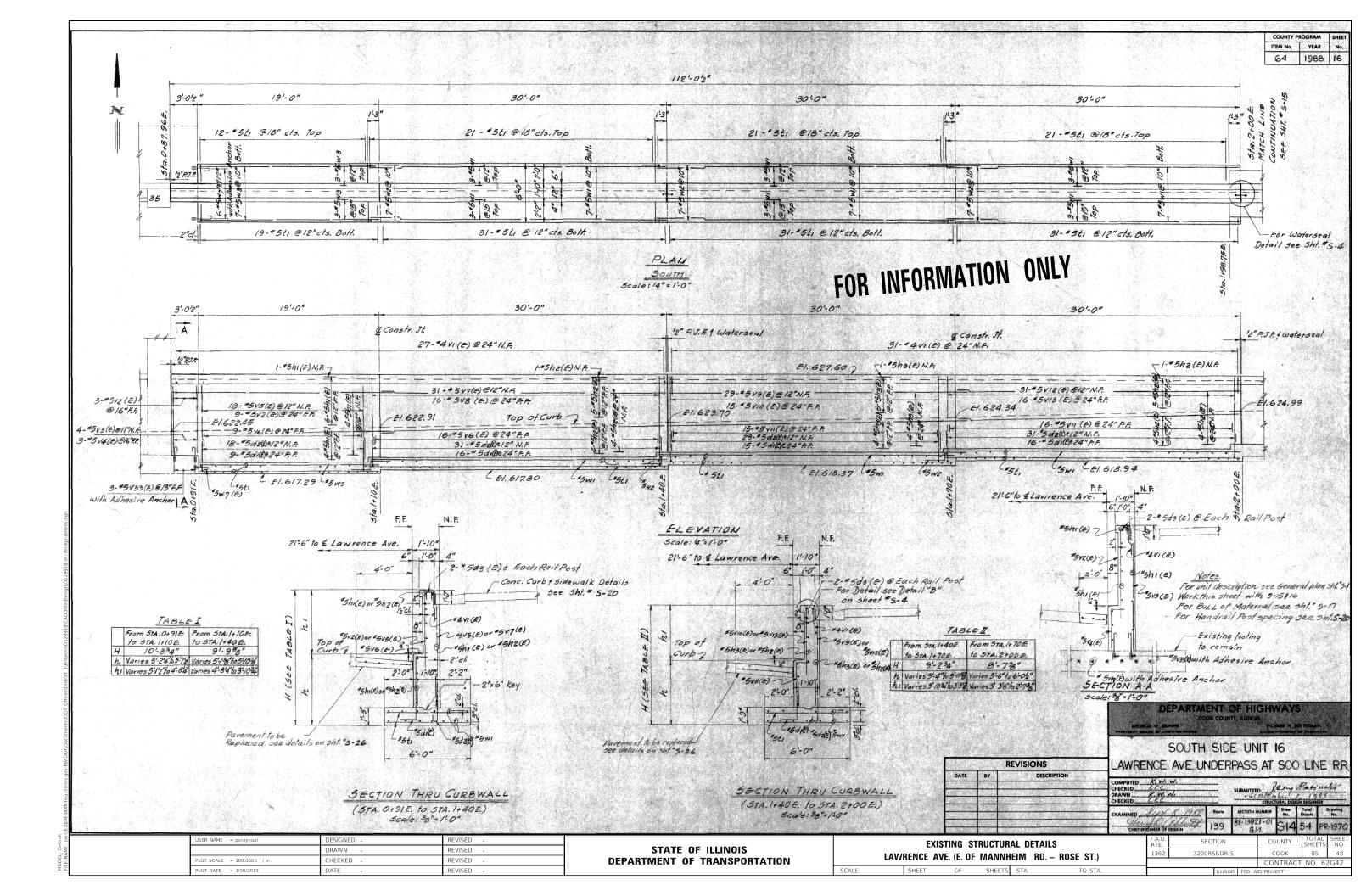
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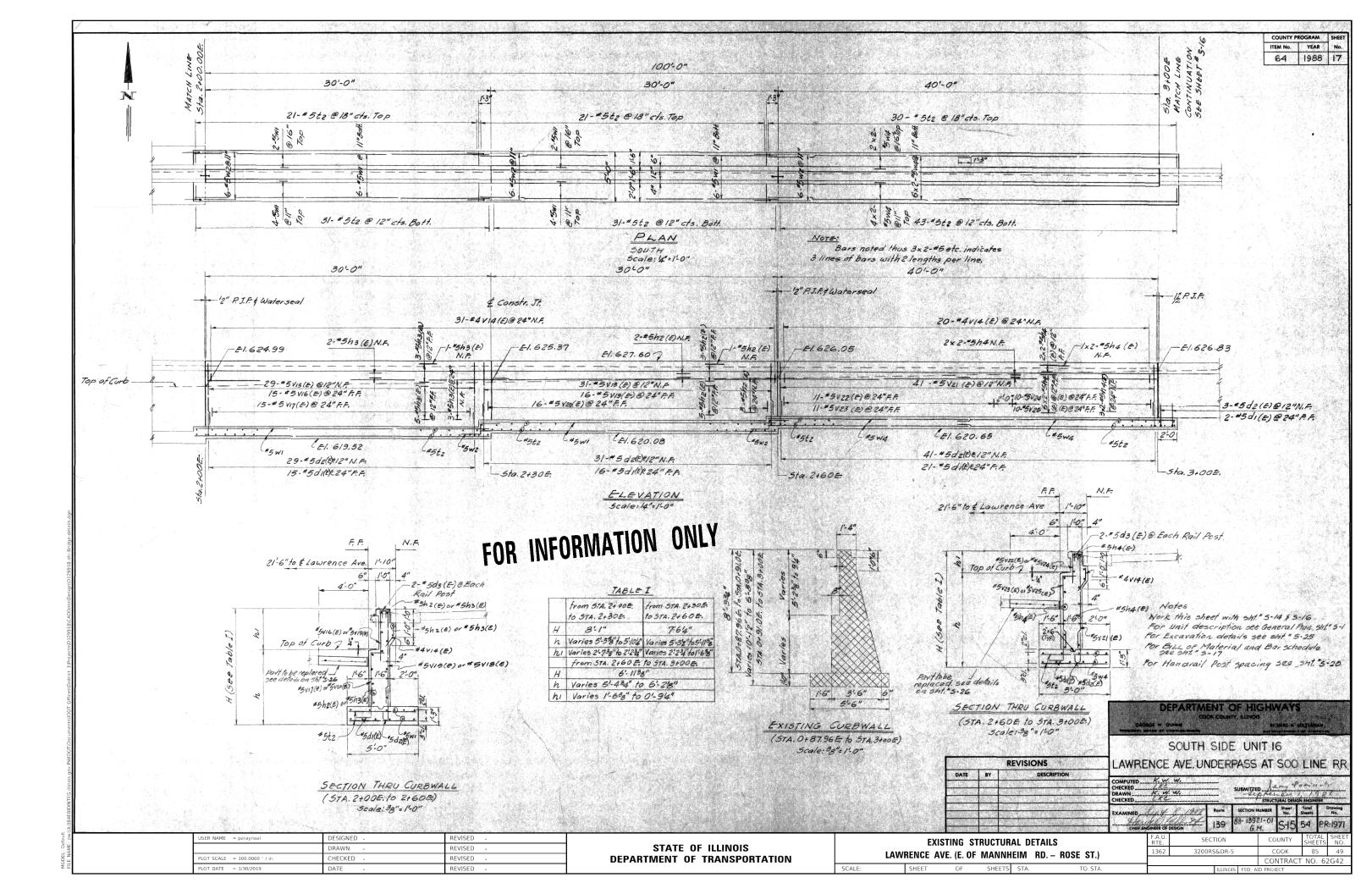
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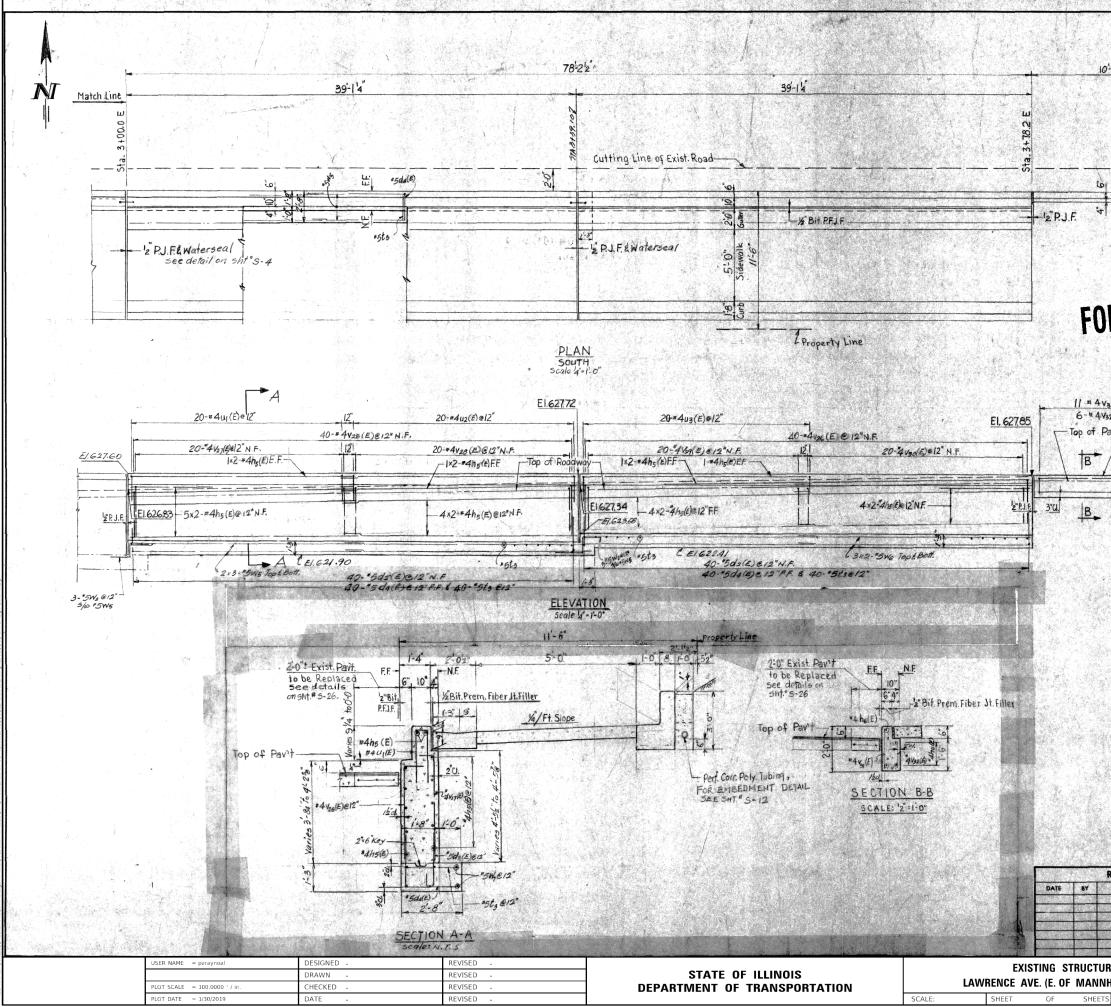


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	EXAMINED	1.8 1992	Route SECTION N	UMBER Sheet No.		Drawing No.
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	F.A.U RTE. 1362	JL	CTION RS&DR-5	COUNTY COOK	TOTAL SHEETS 85	SHEET NO. 50
EIM RD. – ROSE ST.) STA. TO STA.				CONTRAC D PROJECT		

ĸ	NO. 31	TE	ENGTH	SHAPE					2014 19 ⁴			LE	$\dot{\Box}$	MAN	RK		Γ Τ	RBWALL	SHAPE		<u></u>						
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														× V26(E) V27(E)		20	4	3'-9"		21	9	3-4	2"				
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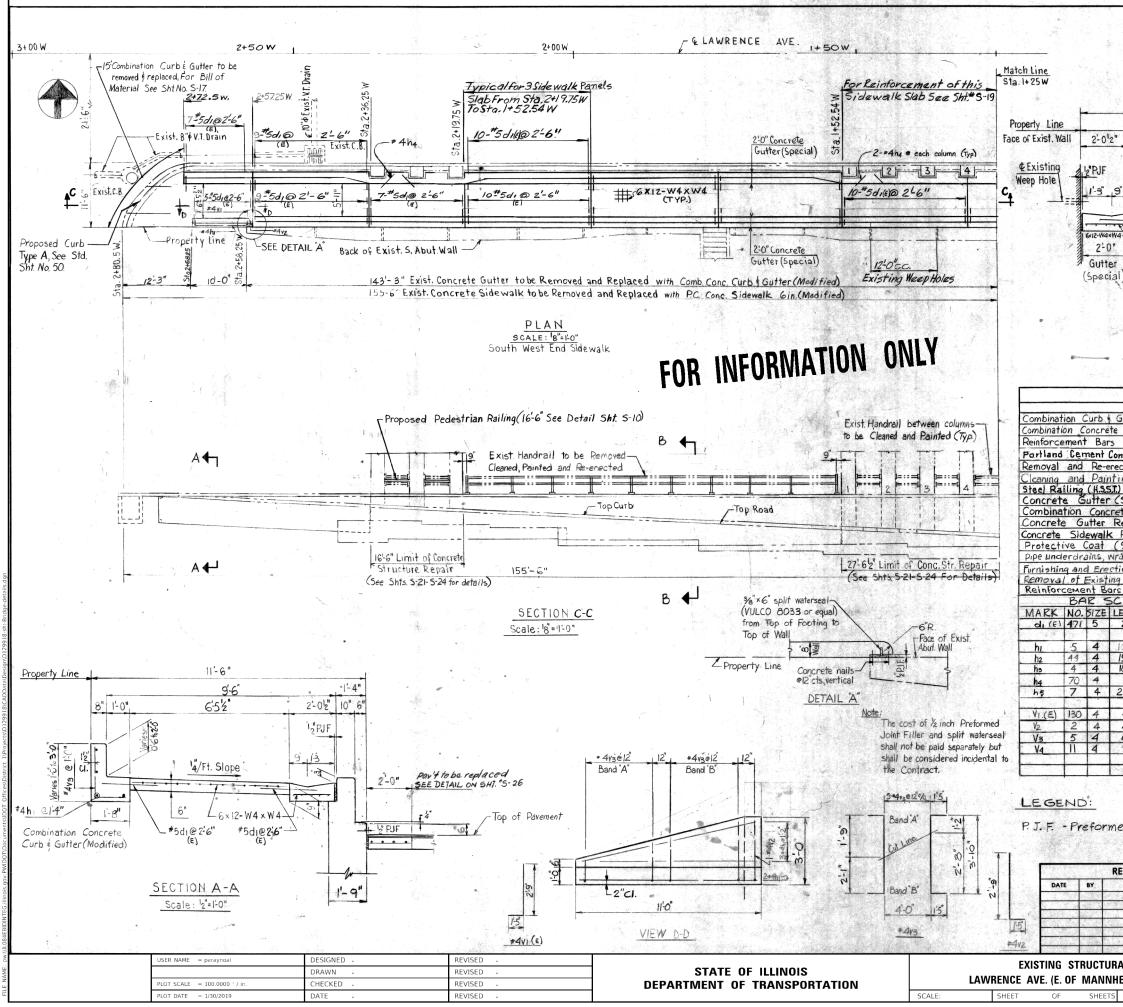
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				ITEM No.	YEAR	No.
				64	1988	19
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TTEM rete 1 Bars	UNIT Cu.Yd	4NIT 14 15.9	QUAN UNIT 15 42.4	TITIES 4NITIE 166.0	224 6,0	1.3 30
ITEM rete A Bars A Bars, Epoxy Coated	LINIT Cu. Yd Lb,	4NIT 14 15.9 300	QUAN UNIT 15 42.4 1,240	TITIES HNITIG 166.0 4,490	224 6,0 12,9	1.3 30
	Цнії Сн.Усі Lb,	41NIT 14 15.9 300 1,115	QUAN UNIT 15 42.4 1,240 2,965	TITIES HNITIG 166.0 4,490 8,850	224 6,0 12,9 2	1.3 30 930

FOR INFORMATION ONLY

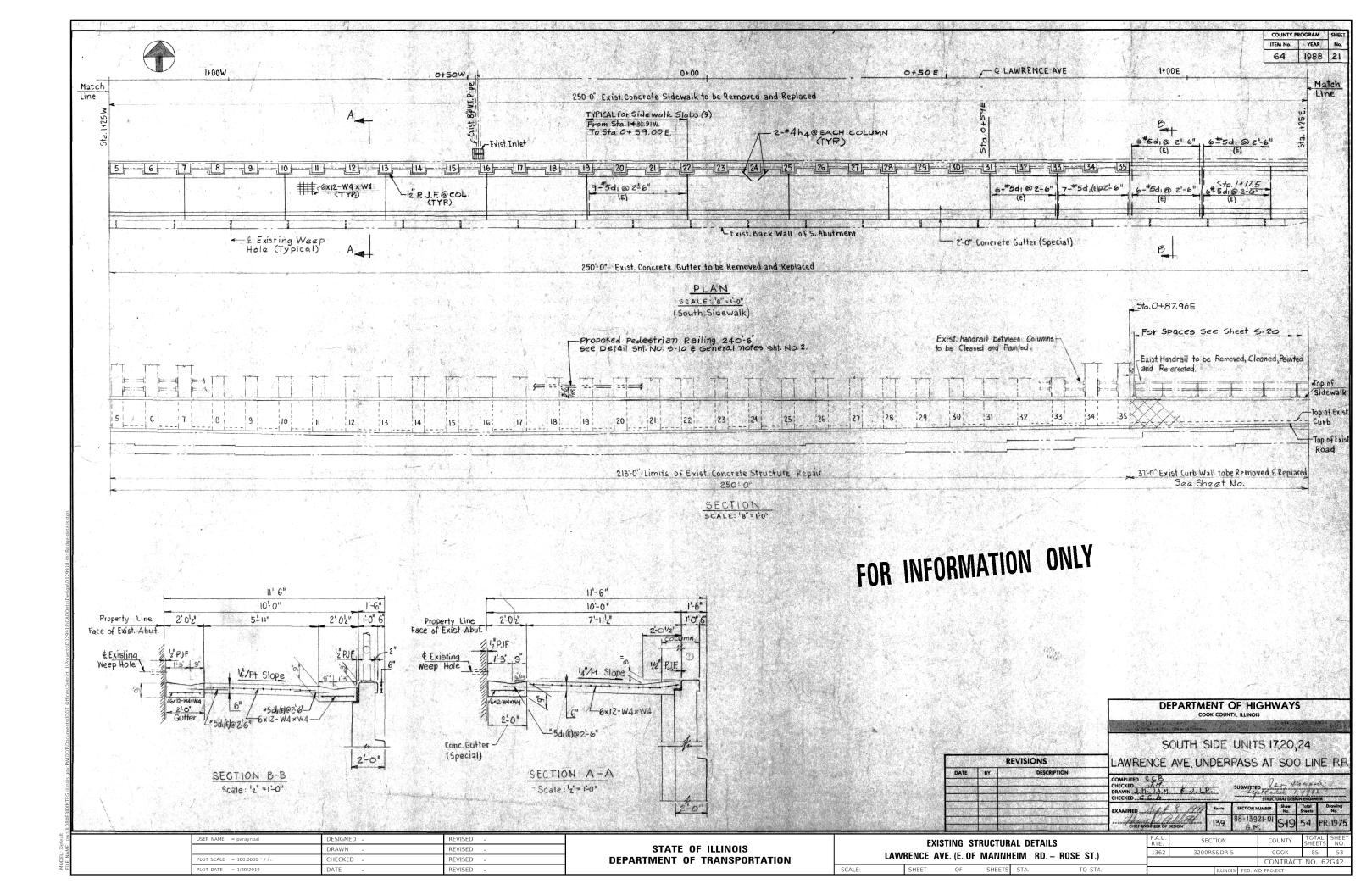
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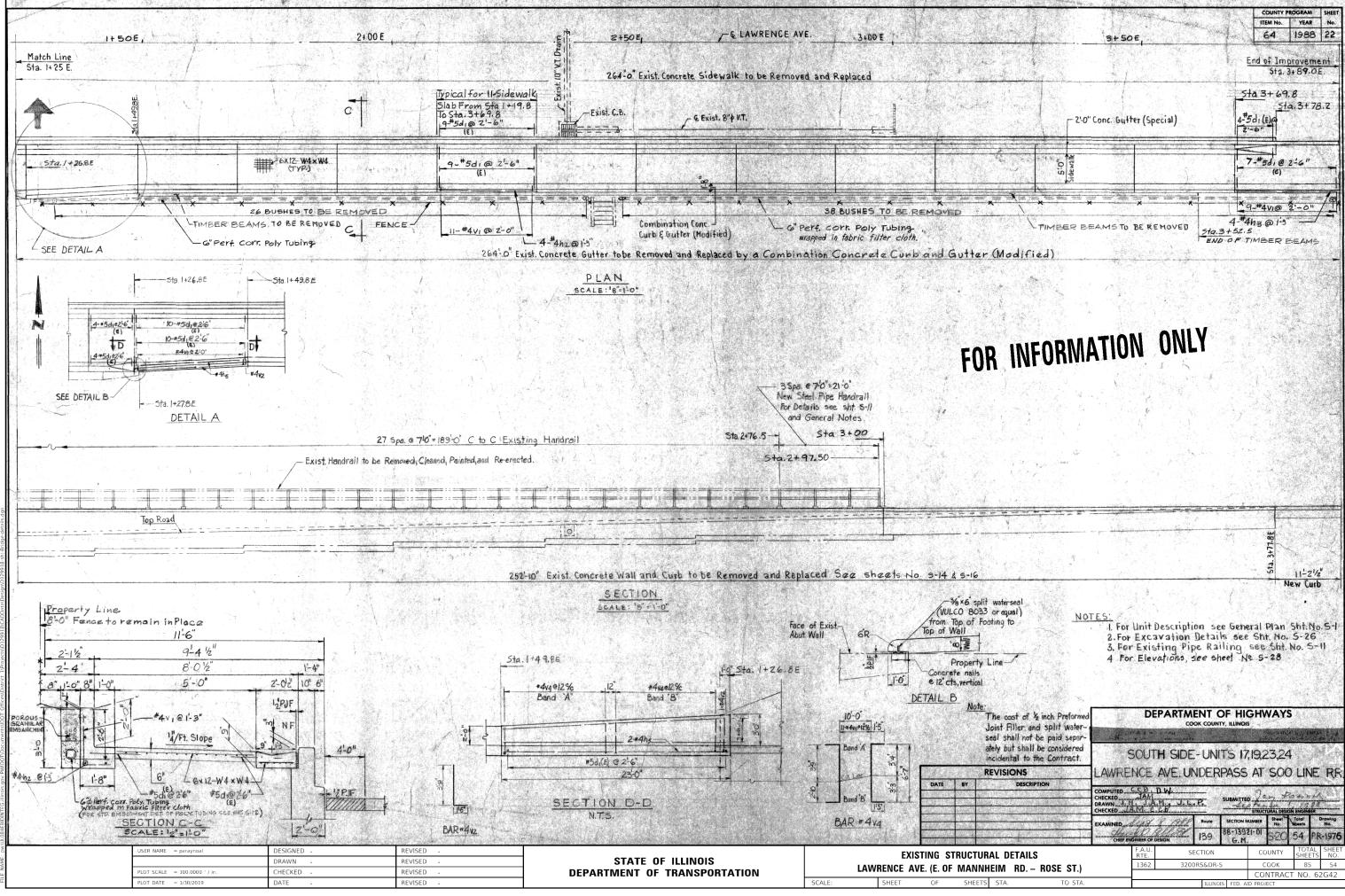
For Unit description see General Plan, sht#5-1 South Curbwall Unit 14 details see sht#5-12. South Curbwall Unit 15 details see sht#5-13. South Curbwall Unit 16 details see Sht 5-14,15,16.

	GEOR	GE W. DUN	NE	eres and an inclusion	OF HIG	S RIC	HARD H. G	OLTERM/	002.05	
	SOUTH SIDE - UNITS 14,15,16 BILL OF MATERIAL & BAR SCHEDULE LAWRENCE AVE UNDERPASS AT SOO LINE RR.									
	COMPUTED CHECKED	KC LK	8	 		te hub		198	8	<u> </u>
	EXAMINED		8_1907 GN	Route	SECTION N BB-1397 G.M	21-01	sheet No. S-17	Total Sheets		nawing No. 1973
URAL DETAILS		F.A.U. RTE. 1362		ECTION	-5		DUNTY COOK	TOT SHE	ETS	SHEET NO. 51
NHEIMRD. –ROSEST.)TSSTA.TOSTA.		1902	5200		OIS FED. AI	CO	NTRAC	_		

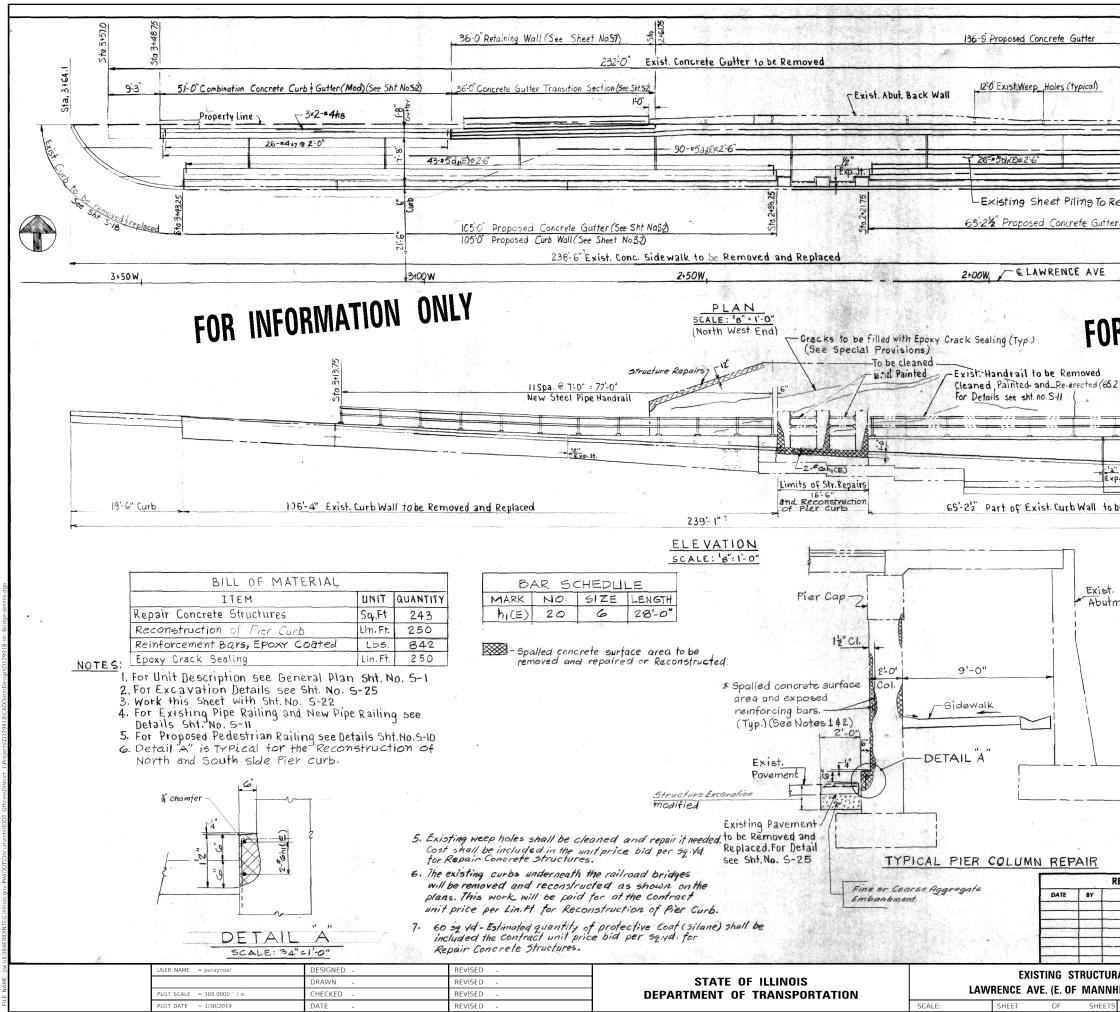


				COUNTY P	ROGRAM	SHEET
			E	ITEM No.	YEAR	No.
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			phyles.			
ll '-6 "				x 11		
10'-0"		1-6"				
2" 5'-11"	2'-0'2"	1-0" 6"				
<u> </u>	+ 102					
	12"PJF					
6"	2131					
9"	9"-1-3"	2 6				
4711. 310p	·m]	4-0"	SEE DE	TAIL ON	5HT.#5-2	6
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wa2	N4×W4	12"PJF	Тор			
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al)	(E)		1 0	-		
X						
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SECTION B		· ·				
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		1. Apr. 1				
	0					
BILL OF M	ATERIAL					
	ITEM			UNIT	and the second se	TITY
Gutter removal te CurbéGutter, Type B:	-612			Lin. Ft		15 15
s	turi i lan			LB		82
Concrete Sidewalk 6 n.		*		Sq.Ft	t. 4,2	00-1
rection of Steel Railin				Lin. F	the second s	55
ting Steel Railing (Pi	pe) *:			Lin Ft		2 <u>3</u> 57
(Special)				Lin. Ft	. 7.	97
rete Curb and Gutter	(Modified)			Lin Ft		85
Removal Removal				Lin. Ft Sq. Ft		6 <u>6</u> 35
(Silane)				Sq. Yo	1 7	54
Vrapped Perforated Corru	jated polyethylene	Tubing, GIn.		Lin.Ft	. 2	5 <u>3</u> 21
sting steel Railing (Pipe) ng Railing Unit and Repl	acement	<u></u>		Each		<u>61</u> 14
irs . Epoxy Cooted		,		LB		28
LENGTH TYPE LOCATIO						
2'6" Curb & Gut	Note	<u>s:</u>				
	L.	For Note of Conc	rete G	utter (Specia	1),
<u>10'-9" CurbèGutta</u> 19'-8" ""		see Sheet No. For Note of Po		Comer	+ Conro	ete
18-11" "		Sidewalk Gin. (M				
3'-0" Sdiwk bitwn	Col 3	For Elevations,	see shi	eet Nº	5-28	
22'-9" CurbiGut	er					
4'2" - Curb Gutt	<u>۲.</u>					
4'2" L- "						
<u>6'-8" L "</u> 9-5' L "						
				Sent 1		
2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 ·	DE	PARTMENT OF	- HIGI	WAYS	5	1
a later march	GEORGE W	COOK COUNTY.	ILLINOIS	RICHARD	GOLTERMA	N
ned Joint Filler	FREEIDENT BOARD OF		-	SUPERINTEND		
	SOUTH	SIDE-UNITS	1718	0212	2 24	
	 A second s	a sector a state and a sector sector	1		Star Ollow	N.
	LAWRENCE	AVE, UNDERPA	ISS AT	S00	LINE	RR
DESCRIPTION		<u>3.M.</u>	120	Jen 3	Patinel	
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	0.0		STE SECTION NUMB	cp Sheet	Total	Drawing
<u> </u>	EXAMINED Sept	9 blatt 120 B	8-13921-0	NO.	Sheets	No.
	an a sum to do the to sum of the ground of		G.M.	" S-18	54 PF	2-1974
		a and a considerate first source the source			TOTAL	CULL
RAL DETAILS	F.A.U. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
RAL DETAILS HEIM RD. – ROSE ST.)	F.A.U.	a and a considerate first source the source		COUNTY COOK	SHEETS 85	NO. 52



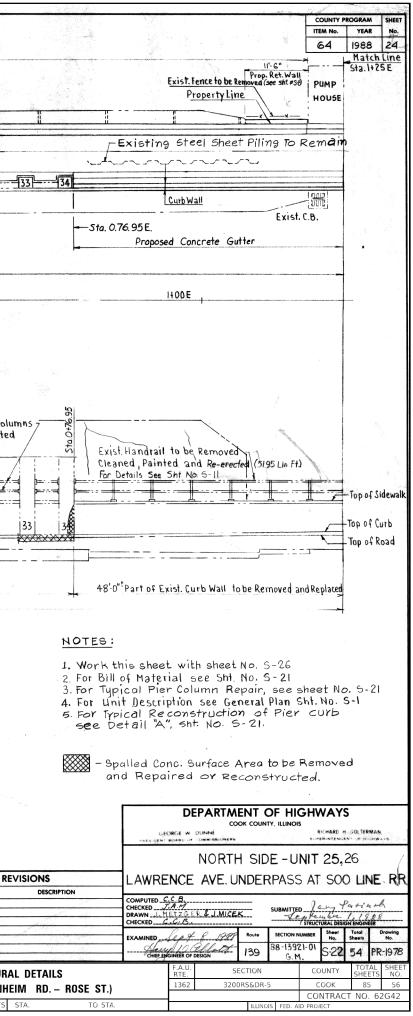


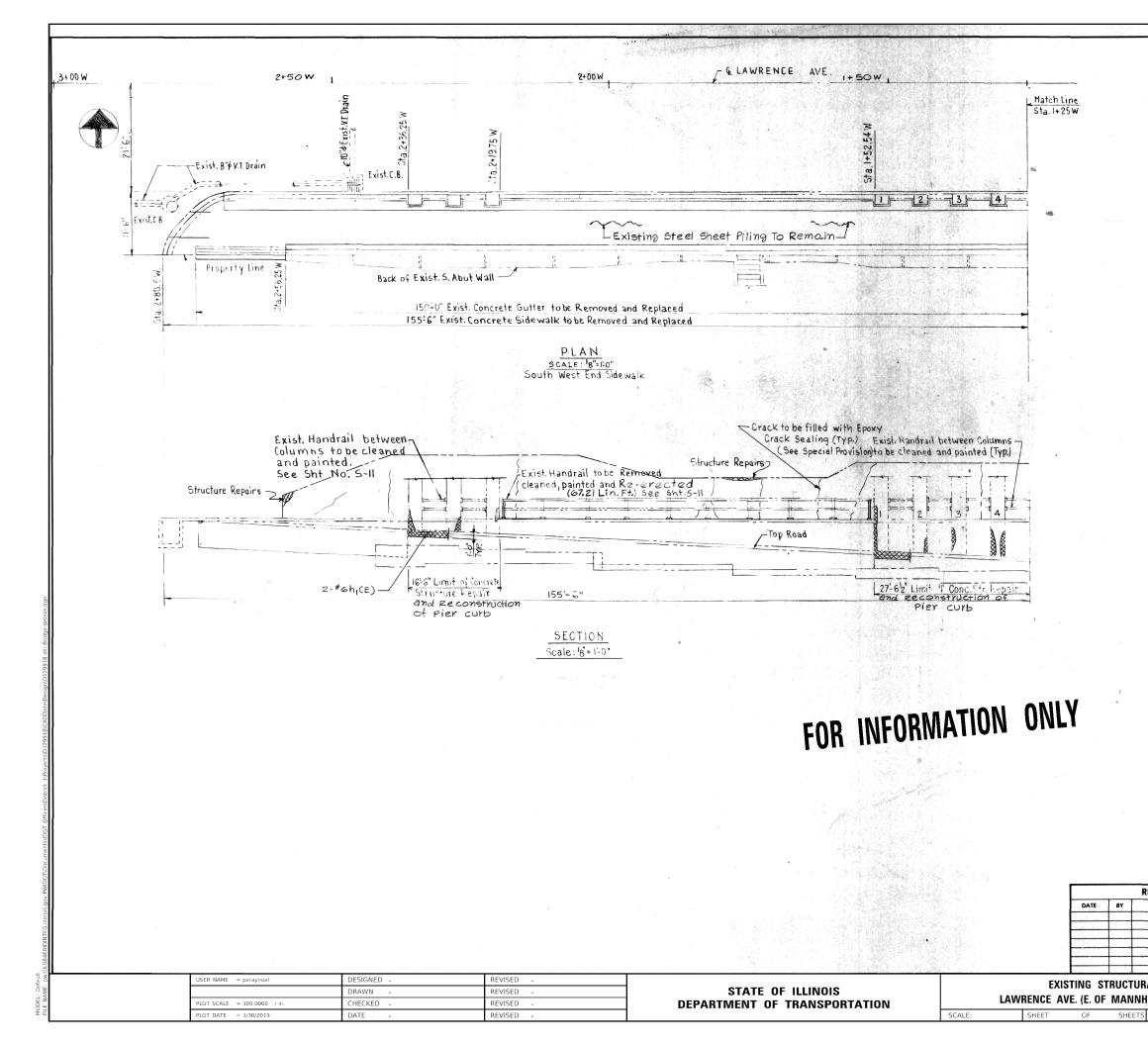
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			and All a second	New Curb
Ale and a second		· · · · · /		New Curb
lit waterseal 33 or equal)				
Footing to NO	TES:	scription see G	shanal Dian	CLIN. C.I
	2. For Excav	ation Details s	iee Sht. No	. 5-26
<u> Maria di S</u>	3. For Existi	ng Pipe Railing	g see shi	. No. 5-11
Line	4 For Eleval	nons, see sheet	Nº 5-28	
國為古人的政策			1. 1914	
	DEP	ARTMENT OF I		/6
The cost of 1/2 inch Preformed Joint Filler and split water-	Deri	COOK COUNTY, ILLI	A MORE CONTRACTOR AND AND AND	
seal shall not be paid separ-	and a set of the set	ritat in a state	rates and particular	an an ann an an a
ately but shall be considered incidental to the Contract.	SOUTH	SIDE-UNITS	1719232	4
REVISIONS		VE. UNDERPAS		The second second second
DESCRIPTION		and the second	DS AI SU	
	COMPUTED CCB. D.I CHECKED JAM DRAWN J. M. J.A.M	SUBM	ITTED Dawy	Powingh.
	CHECKED JAM C.C.	<u>a Jahata</u>	Lep Frenchen STRUCTURAL DE	SIGN ENGINEER
	EXAMINED		ON NUMBER Sheet No.	Speets No.
	CHIEF ENGINEER OF DESIG		3921-01 S-20	54 PR-1976
IRAL DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
NHEIM RD. – ROSE ST.)	1362	3200RS&DR-5	COOK	85 54
TS STA. TO STA.		ILLINOIS FEI	D. AID PROJECT	CT NO. 62G42



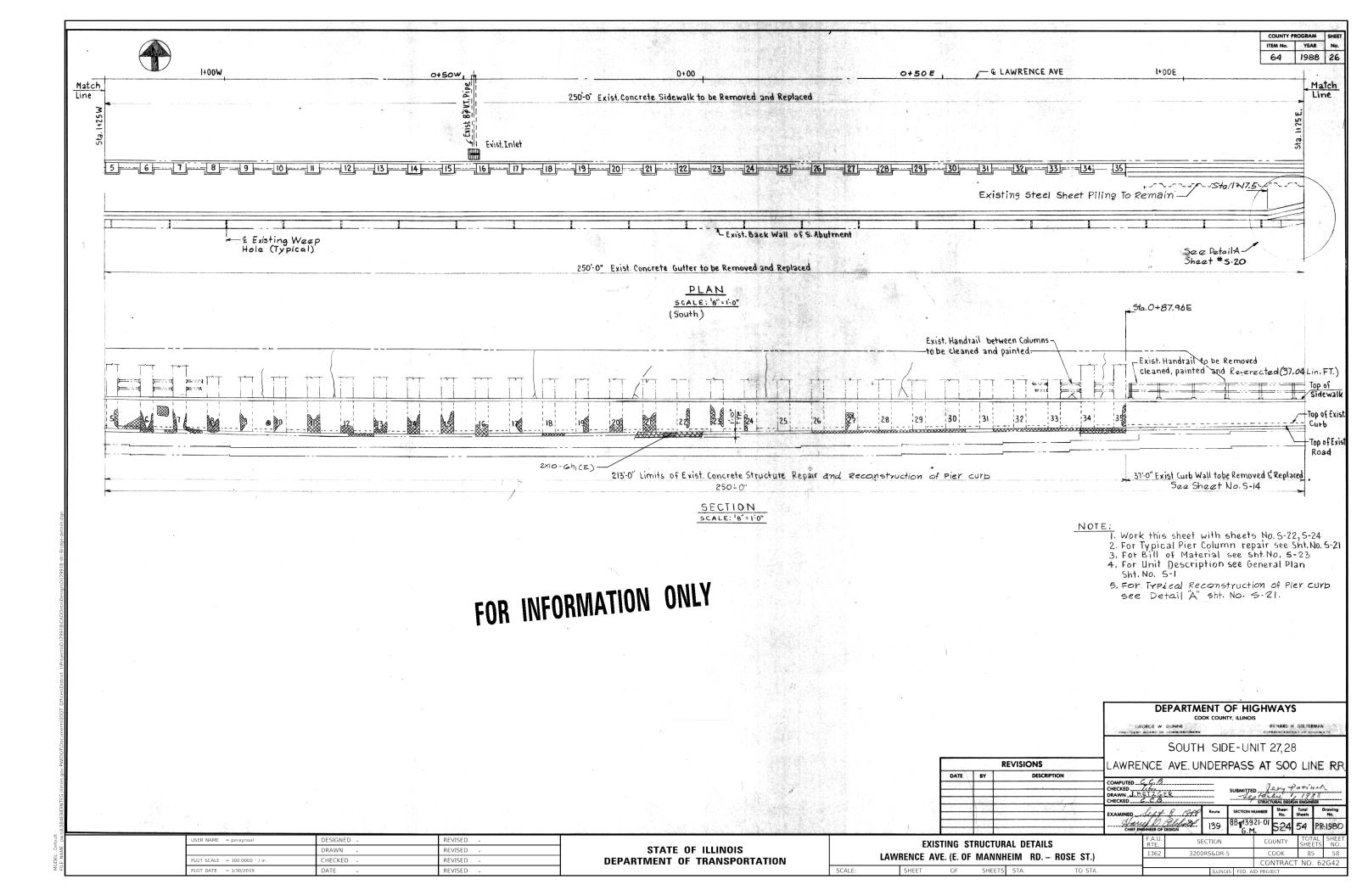
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o	for the second period p	Sidewalk
Exist. weep hole (TYP) = 10:		
	2 3 4 2 5 -Top of C	Curb
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	Top of	Road
be Removed and Replaced	31'62 Limits of Structure Repairs	
	and Reconstruction of Pier Curb	
* NOTES : REPAIR	CONCRETE STRUCTURES - ABUTMENTS,	
PIERS A	ND WALLS	
	concrete areas shall be removed with an elec	
the denth	other mechanical tools approved by the Engine necessary to remove all loose and disinted	
material.	All exposed reinforcing bars shall be thor	oughly
cleaned a	nd undercut to a depth that will permit a	minimum of one
removing	tic cement over the reinforcing bars. After the unsound concrete from the surface,	er the
	or shall thoroughly clean by sand-blast, a	
or water b	last the areas involved.	
2. Existing	reinforcements having 10% or more of cr	755-
	area lost due to corrosion or damage	
	removal shall be reinforced by additio	
	orcement bars. The estimated weight of 700 included in the summary of quantities.	LD OT
3. The exac	t area of repairs will be determined by the B	Engineer
in the tield	a.	
	eral Notes Nº 27 Tentinue To 5.	
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	DEPARTMENT OF HIGHWAY	The Part of the second
	GEORGE W DUNNE CONTENT RELATED A	GOLTERMAN
	NORTH SIDE - UNIT 25,2	26
		and the second second
	LAWRENCE AVE, UNDERPASS AT SO	J LINE RR
	COMPUTED CCB	Patinch-
	CHECKED JAM. DRAWN JOANNA METZGEY LAM. CHECKED C.C.B. SUBMITTED Jen, 4 CHECKED C.C.B. STRUCTURAL DESK	1988
	EXAMINED Sept & 1988 Route SECTION NUMBER Sheet No.	Total Drawing Sheets No.
	CHEF ENDINEER OF DESIGN 139 88-13921-01 S-21	54 PR-1977
RAL DETAILS	F.A.U. RTE. SECTION COUNTY	TOTAL SHEET SHEETS NO.
HEIM RD. – ROSE ST.)	1362 3200RS&DR-5 COOK	85 55
S STA. TO STA.	ILLINOIS FED. AID PROJECT	CT NO. 62G42

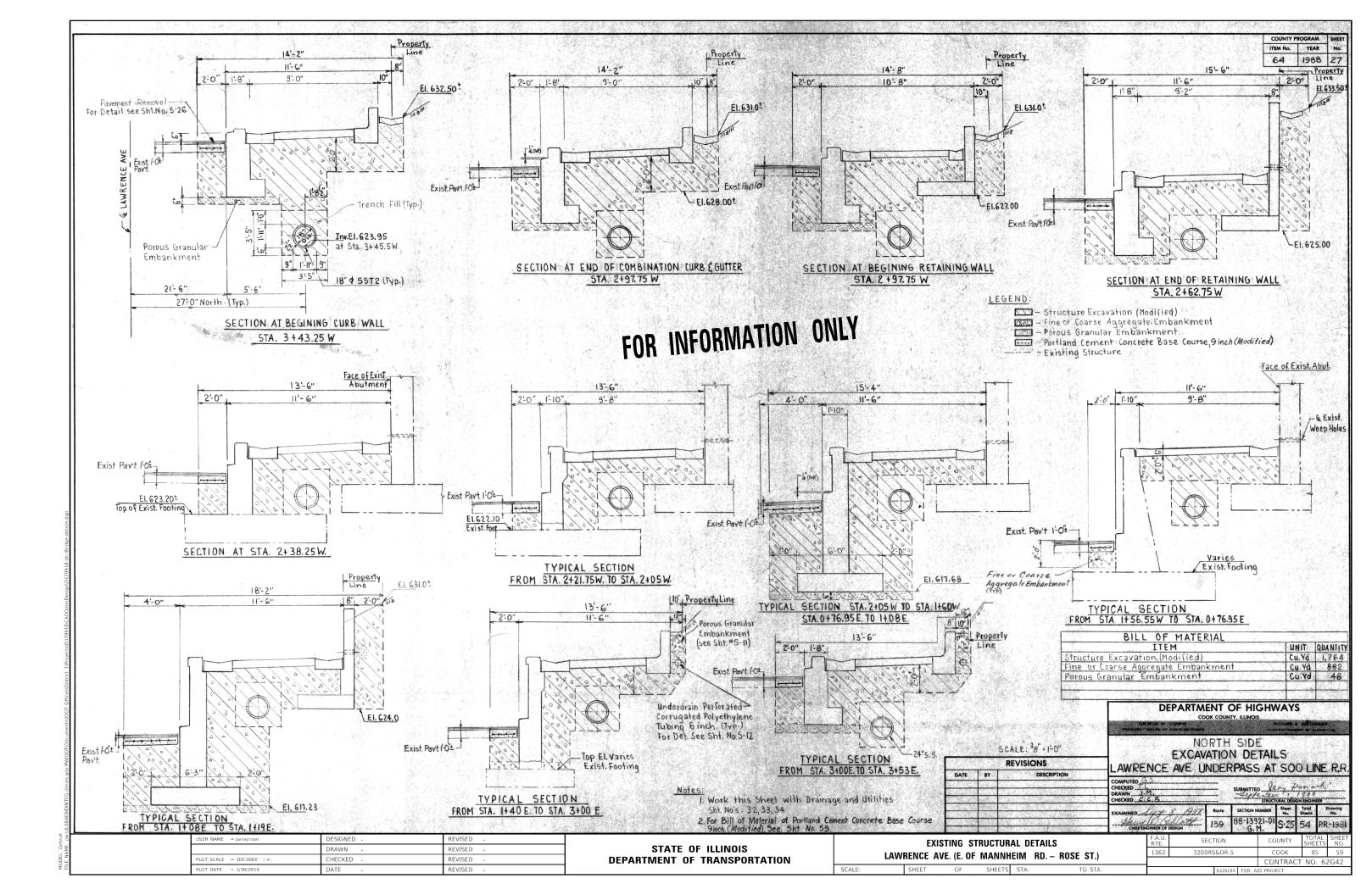
<u>Match Line</u> Sta. It 25 W			245-	0" [±] Exist. Concrete Gutter to be Removed and	d Replaced	
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			- Back Exist. Abuł. Wall		The second s	2:0 Gutter (TVP-)
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	2	2:0" × 2:6" Col. (Typ.)			10" \$ V.T. Drain	
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		_ Bottom of	the Pier Cap	Details see Sht. No. 5-10		to be Cleaned and Painted See sht. S-11
6 7 8 AS					24 25 26 27	28 29 30 31 32
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			202 <u>'</u> 0	Limit of Concrete Structure Repairs	and Reconstruction of	Pier curb
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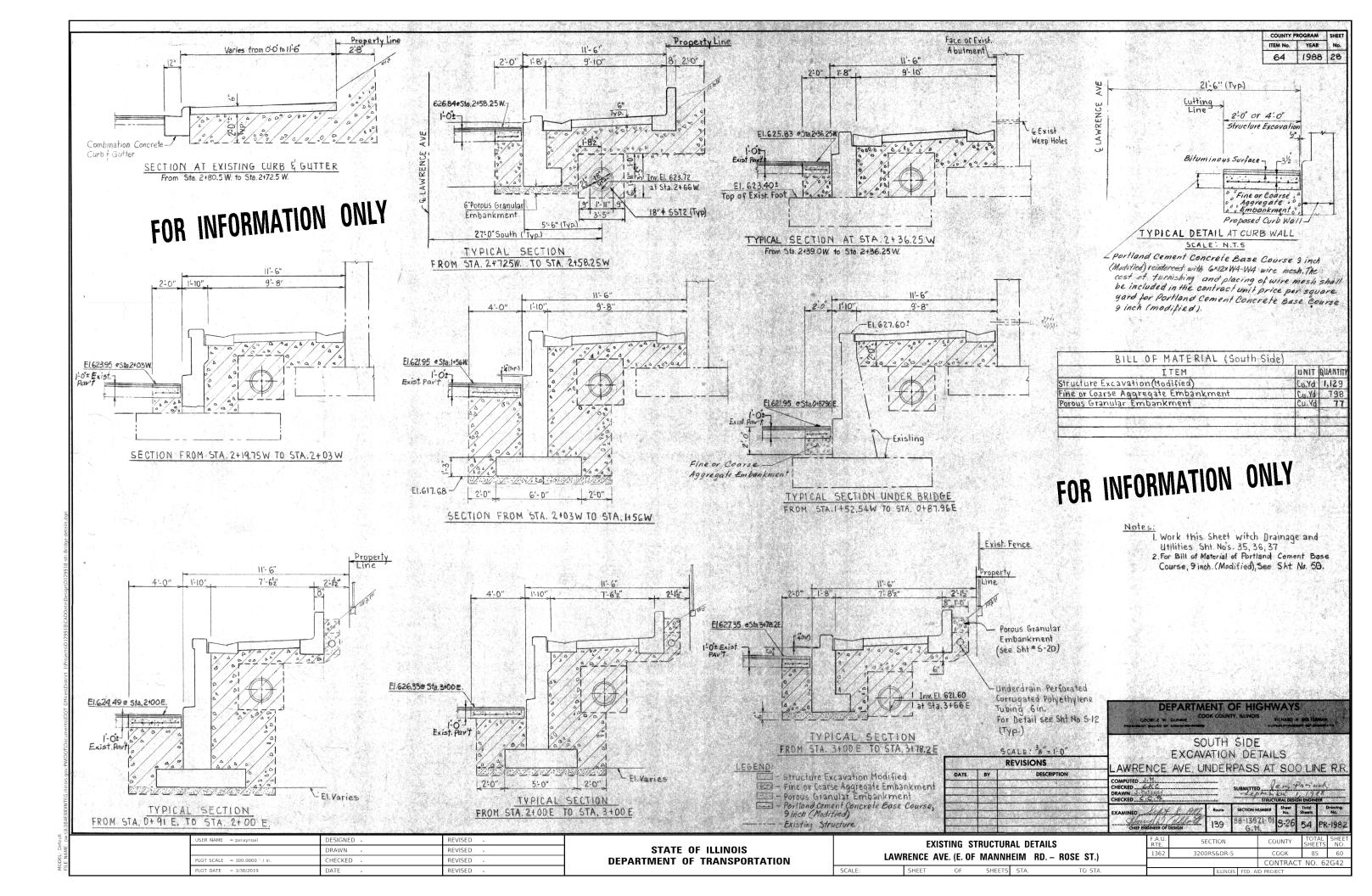


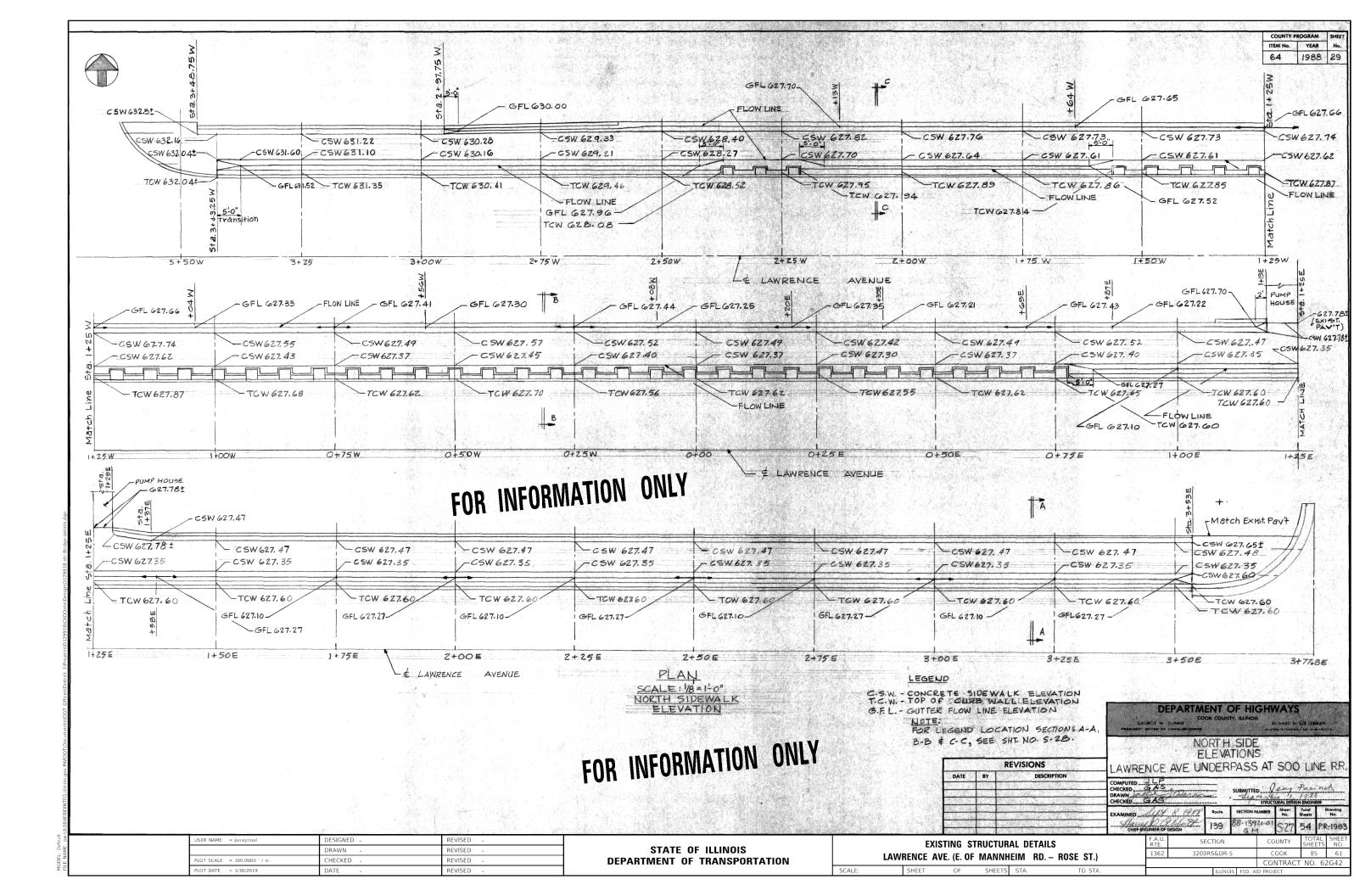


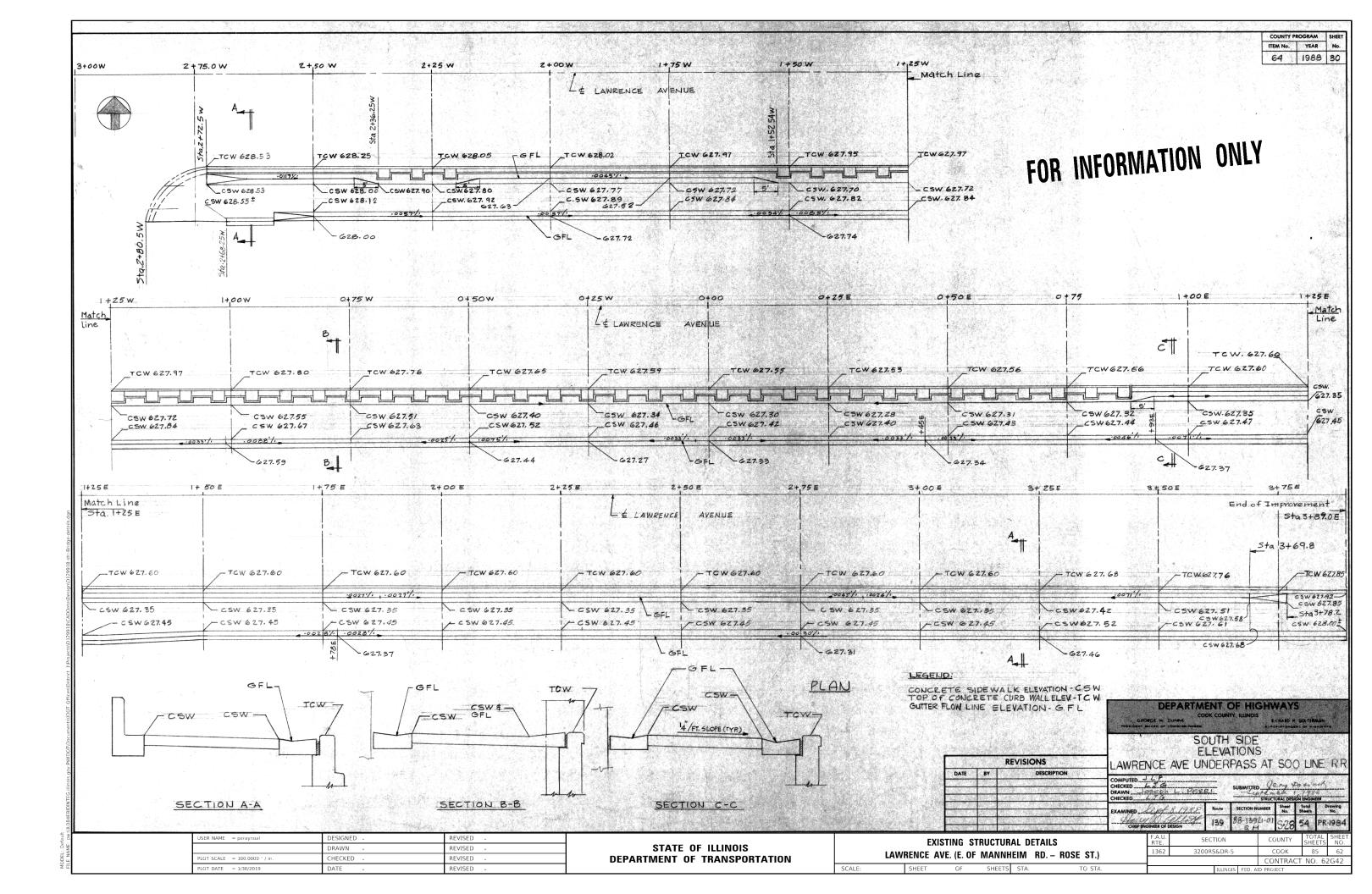
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AL DETAILS	1	RTE. 1362		RS&DR-	5	COOK	SHEETS 85	NO. 57
IEIM RD. – ROSE ST.)		1302	3200		-	CONTRAC		
STA. TO STA.				ILLINO	IS FED. AID	PROJECT		_











DRAINAGE AND UTILITIES

GENERAL NOTES

- ALL STORM SEWERS AND PIPE CULVERTS. UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STATE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE AASHTO DESIGNATION M170 (ASTM DESIGNATION C76), WITH A MINIMUM OF CLASS III.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMFORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEMERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEMERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL IMES TO DISPOSE OF THE WATER RECEIVED FOR THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ALL BACKFILLING OPERATIONS SHALL CONFORM TO ARTICLE 603.08 OF THE STANDARD AND SUPPLEMENTAL SPECIFICATIONS.
- THE CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING IN THE AREA OF ABANDOMED EXISTING PIPELINE FACILITIES SINCE RESIDUAL MATERIALS CONTAINED THEREIN MAY BE DANCEROUS. ANY ABANDOMED LINES TO BE REMOVED DURING CONSTRUCTION DUE TO DIRECT COMPLICT WITH THE PROJECT SHOULD BE DOME BY THE COMPANY AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR SHOULD ASCERTAIN THE EXTENT AS NO EXTRAS OR DELAYS WILL BE GRANTED REGARDING THESE ACTIVITIES.
- ADJUSTMENTS REQUIRED BY UTILITY COMPANIES WILL BE PERFORMED BY THE COMPANY INVOLVED OR ITS CONTRACTOR. FLANS FOR THESE ADJUSTMENTS WILL BE ON FILE IN THE OFFICE OF THE COOK COUNTY HIGHWAY DEPARTMENT, BUREAU OF CONSTRUCTION FOR INFORMATION AND USE.
- 6. CO-ORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE.
- THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 614.0 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATES.
- ON ALL IMPROVEMENTS THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE OWNER OR THE COOK COUNTY HIGHWAY DEPARTMENT AND BE SALVAGED. THE OWNER SHALL BE NOTIFIED AS TO AVAILABILITY FOR PICK-UP. 8.
- 9. PAVEMENT REPLACEMENT SHALL BE CONFINED TO ONE TRAFFIC LANE DURING THE CONSTRUCTION PERIOD IN ACCORDANCE WITH THE REQUIREMENT OF THE SPECIFICATIONS AND WITH THE APPROPRIATE STANDARDS FOR TRAFFIC CONTROL. MEASUREMENT FOR PAVEMENT REPLACEMENT WILL BE THE ALLOWABLE WIDTH OF TRENCH PLUS TWO FEET.
- 10. ALL LATERAL CONNECTIONS TO LATERALS OF EQUAL OF NEXT LARGER SIZE SHOULD BE INSTALLED USING A "WYE" SECTION. THE COST OF THE WYE SECTIONS SHALL BE INCIDENTAL TO THE COST OF THE LATERAL PIPE.
- 11. CHERT AGGREGATE SHALL NOT BE ALLOWED IN THE MANUFACTURE OF STORM SEWERS, END SECTIONS OR PRECAST DRAINAGE STRUCTURES.
- 13. THE CONTRACTORS ATTENTION IS CALLED TO THE FACT THAT ALL ELEVATIONS FOR FLOW LINES AND INVERTS FOR PROPOSED STRUCTURES AND SEWERS ARE APPROXIMATE. THE USE OF THESE ELEVATIONS IS TO BE DETERMINED BASED ON FIELD CONDITIONS AND POTENTIAL CONFLICTS WITH EXISTING UTILITIES AND/OR DRAINAGE FACILITIES. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR CHANGES IN ELEVATION AND THEY ARE TO BE DONE AT THE DIRECTION OF THE ENGINEER.
- 14. THE CONTRACTORS ATTENTION IS CALLED TO SPECIAL PROVISION 83, COOPERATION WITH UTILITIES.
- 15. THE EXISTING CATCH BASINS, MANHOLES, AND STORM SEWERS WHICH LIE IN THE SIDEWALKS EXCLUDING THE PIPE WHICH FLOWS TO AND FROM THE EXISTING PUMPING STATION SHALL BE REMOVED WITHIN THE CONTRACT LIMITS ALONG LAWRENCE AVENUE. THE COST FOR THE REMOVAL OF ALL STORM SEWERS, CATCH BASINS, AND MANHOLES; AND THE EXCAVATION NECESSARY FOR THE INSTALLATION OF THE PROPOSED STORM SEWER SHALL BE INCLUDED IN THE UNIT BID PRICE FOR STRUCTURE EXCAVATION (MODIFIED)
- 16. CAUTION SHALL BE USED IN THE AREA OF THE EXISTING PUMPING STATION SO AS TO NOT DISTURE THE EXISTING FACILITY. ANY DISCHARGE PIPES ENCOUNTERED, FLOWING FROM THE PUMPING STATION INTO THE EXISTING STORM SEWER SHALL BE CONNECTED INTO THE FROPOGED STORM SEWER, QUANTITIES FOR 6 AND 8 INCH DUCTILE IRON PIPE HAVE BEEN ADDED TO THE DRAINAGE BILL OF MATERIALS TO PROVIDE A BID FRICE FOR THE UNIT AND ARE TO BE USED ONLY IF FIELD CONDITIONS REQUIRE THEIR USE.
- 17. THE CONTRACTOR'S ATTENTION SHALL BE CALLED TO THE FACT THAT AN EXISTING 27 INCH COMBINATION SEWER LIES IN THE VICINITY OF THE EXISTING 30 INCH STORM SEWER AT MICHIGAN AND LAWRENCE AVENUE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CORRECT PIPE IN WHICH THE PROPOSED STORM SEWER IS TO DISCHARGE INTO.
- 18. QUANTITIES FOR PLUGGING EXISTING STORM SEWERS HAVE BEEN ADDED TO THE DRAINAGE BILL OF MATERIALS TO PROVIDE A BID PRICE FOR THE UNIT AND ARE TO BE USED ONLY IF FIELD CONDITIONS REQUIRE THEIR USE.
- 19. ANY PIPES NOT SHOWN ON THE PLANS THAT ARE FOUND FLOWING INTO THE EXISTING SIDEWALK STORM SEWERS FROM LAWRENCE AVENUE OR THE ADJUINING SIDE STREETS SHALL BE CONNECTED TO THE PROPOSED STORM SEWERS. QUANTITIES FOR 8 AND 10 INCH STORM SEWER HAVE BEEN ADDED TO THE DRAINAGE BILL OF MATERIALS TO PROVIDE A BID PRICE FOR THE UNIT AND ARE TO BE USED ONLY IF FIELD CONDITIONS REQUIRE ADDED TO THE DRAINAGE BILL OF MATERIALS TO PROVIDE A BID PRICE FOR THE UNIT AND ARE TO BE USED ONLY IF FIELD CONDITIONS REQUIRE THETE USE
- 20. THE ENGINEER IS TO VERIFY THE CONDITION OF THE EXISTING **DRAINAGE** STRUCTURES ON LAWRENCE AVENUE. ADDITIONAL QUANTITIES FOR CATCH BASINS TO BE ADJUSTED, MANHOLES TO BE ADJUSTED, INLETS TO BE ADJUSTED, CATCH BASINS, TYPE A2, 4 FOOT DIAMETER WITH FRAMES AND GRATES, CATCH BASINS TO BE RECONSTRUCTED, CATCH BASINS TO BE RECONSTRUCTED, SPECIAL, CLEANING EXISTING CATCH BASINS, CLEANING EXISTING MANHOLES, CLEANING EXISTING INLETS, MANHOLES TO BE RECONSTRUCTED, MANDLES TO BE RECONSTRUCTED, SPECIAL, CLEANING EXISTING STORM SEMERS, (12 IN.), AND CLEANING EXISTING STORM SEWERS, (18 IN.) HAVE BEEN ADDED TO THE DRAINAGE BILL OF MATERIALS TO DETERMINE A BID FRICE FOR THE UNIT AND ARE TO BE USED ONLY IF FIELD CONDITIONS REQUIRE THEIR USE.
- 21. (RS) DENOTES SPECIAL RECONSTRUCTION OF MANHOLES AND CATCH BASINS. THE SPECIAL RECONSTRUCTION OF MANHOLES, AND CATCH BASINS WHERE REQUIRED SHALL BE DONE AT THE DIRECTION OF THE ENGINEER. THE LIMITS OF SPECIAL RECONSTRUCTION WILL VARY FROM STRUCTURE TO STRUCTURE, BUT SHALL CONSIST OF THE REMOVAL AND REFLACEMENT OF AT LEAST THE TOP 30 INCRES OF THE EXISTING STRUCTURE. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONC COUNTY HIGHWAY DEPARTMENT STANDARDS FOR TYPE A MANNOLE, AND TYPE A2 CATCH BASIN. THIS ITEM SHALL BE FAID FOR AT THE CONTRACT UNIT FRICE FOR EACH MANHOLES, AND CATCH BASINS TO BE RECONSTRUCTED, SPECIAL, AND SHALL INCLUDE ALL NECESSARY LABOR, CLEANING AND MATERIALS.
- 22. WHERE TRENCH BACKFILL IS NOT CALLED FOR ON THE PLANS, SPECIAL BEDDING FOR STORM SEWERS IS TO BE USED, AND THE REMAINDER OF THE BACKFILL MATERIAL OVER THE STORM-SEWERS IS TO BE FINE OR COARSE AGGREGATE. SEE SHEETS 27+28

BILL	OF MATERIALS
UNIT	ITEM
LIN.FT.	STORM SEWERS, TYPE 2 (CSP CLASS 1) B IN.
LIN.FT.	STORM SEWERS, TYPE 2 (CSP CLASS 1) 10 IN.
LIN.FT.	STORM SEWERS, TYPE 2 (RCCP CLASS III) 12 IN.
LIN.FT.	STORM SEWERS, TYPE 2 (RCCP CLASS III) 18 IN.
LIN.FT.	STORM SEWERS, TYPE 2 (RCCP CLASS III) 24 IN.
LIN.FT.	STORM SEWERS, TYPE 1 (DUCTILE IRON PIPE AWWA C151)
LIN.FT.	STORM SEWERS, TYPE 1 (DUCTILE IRON PIPE AWWA C151) 8
LIN.FT.	EXPLORATION TRENCH (52 IN. DEPTH)
EACH	CATCH BASINS, TYPE C, 2 FT. DIA. WITH FRAMES AND GRA
EACH	MANHOLES, TYPE A, 4 FT. DIA. WITH FRAMES AND GRATES
SQ.YD.	PAVEMENT REPLACEMENT
~ CV.YD.	TRENCH BACKFILL
EACH	PLUGGING EXISTING DRAINS AND SEWERS (12 IN. OR LESS)
ÉACH	PLUGGING EXISTING DRAIN AND SEWERS (OVER 12 IN.)
EACH	CATCH BASINS, 18 IN. DIA WITH FRAMES AND GRATES
ЕАСН	CATCH BASINS TYPE A2, 4 FT. DIA. WITH FRAMES AND GRATES.
EACH	CATCH BASINS TO BE RECONSTRUCTED.
EACH ,	CATCH BASINS TO BE RECONSTRUCTED, SPECIAL.
EACH	CLEANING EXISTING CATCH BASINS.
EACH	MANHOLES TO BE RECONSTRUCTED.
EACH	MANHOLES TO BE RECONSTRUCTED, SPECIAL.
EACH	CLEANING EXISTING MANHOLES,
EACH	CLEANING EXISTING INLETS.
LIN.FT.	CLEANING EXISTING STORM SEWERS (12 IN.)
LIN.FT	CLEANING EXISTING STORM SEWERS (18 IN.)
EACH	CATCH BASINS TO BE ADJUSTED
EACH	MANHOLES TO BE ADJUSTED
EACH	INLETS TO BE ADJUSTED
EACH	MANHOLES, TYPE A, 5 FT. DIA. WITH FRAMES AND GRATES

DRAINAGE AND UTILITIES BILL OF MATERIALS

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USER NAME = paraynoal	DESIGNED -	REVISED -			EXIST	ING ST	RUCTURA
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PLOT DATE = 1/30/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS

		LAWRENCE AVENUE SOOLINE RR						
		COMPUTED <u>RFM</u> DRAWN <u>RFM</u> CHECKED <u>DAP</u>	APPROVED Value	Alis as	Tis 88			
JRAL DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
NHEIM RD. – ROSE ST.)	1362	3200RS&DR-5	СООК	85	63			
MILIM ND NOSE 51.)			CONTRACT	F NO. 63	2G42			
TS STA. TO STA.		ILLINOIS FED.	AID PROJECT					

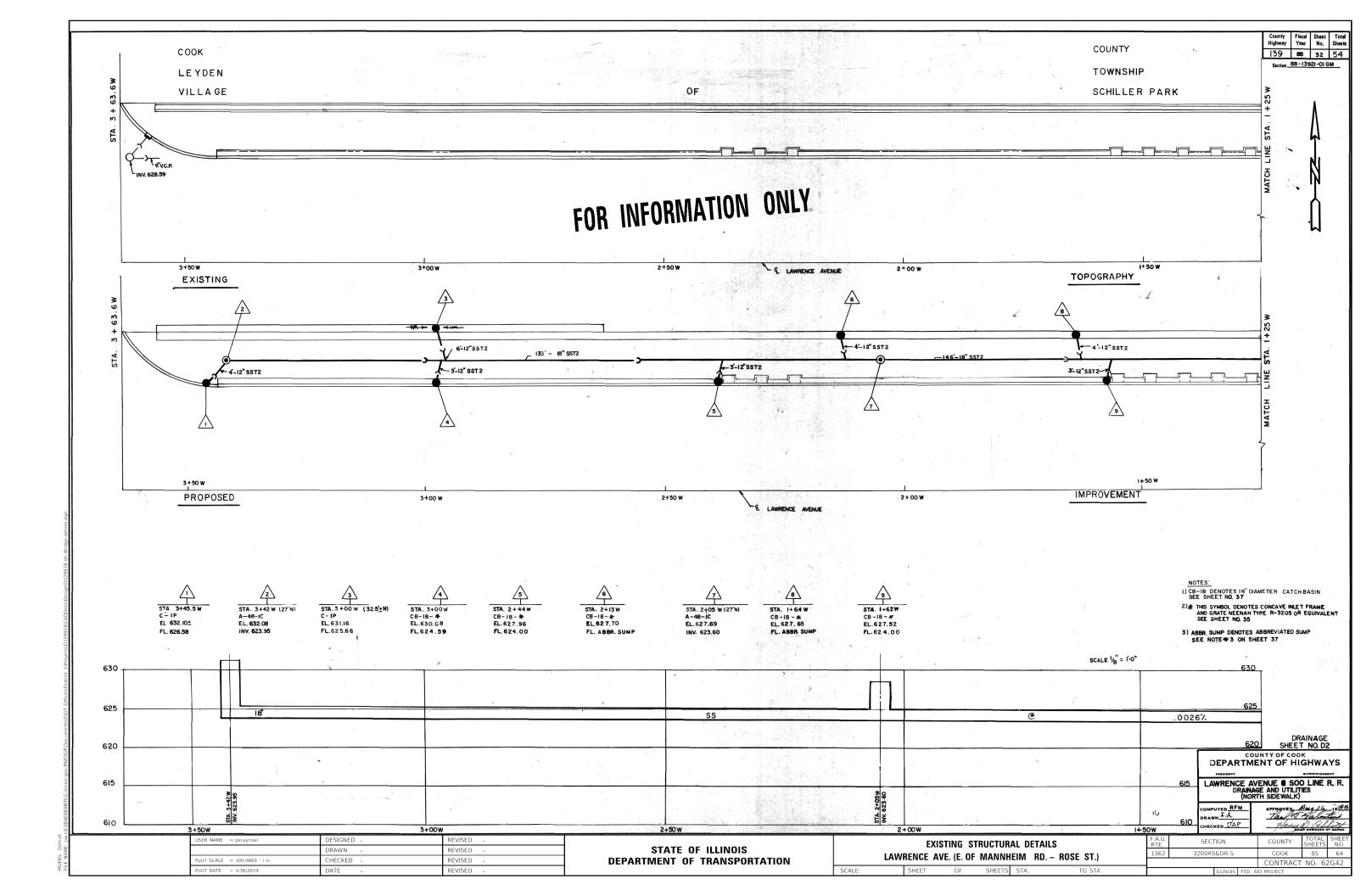
DRAINAGE SHEET NO. DI COUNTY OF COOK DEPARTMENT OF HIGHWAYS

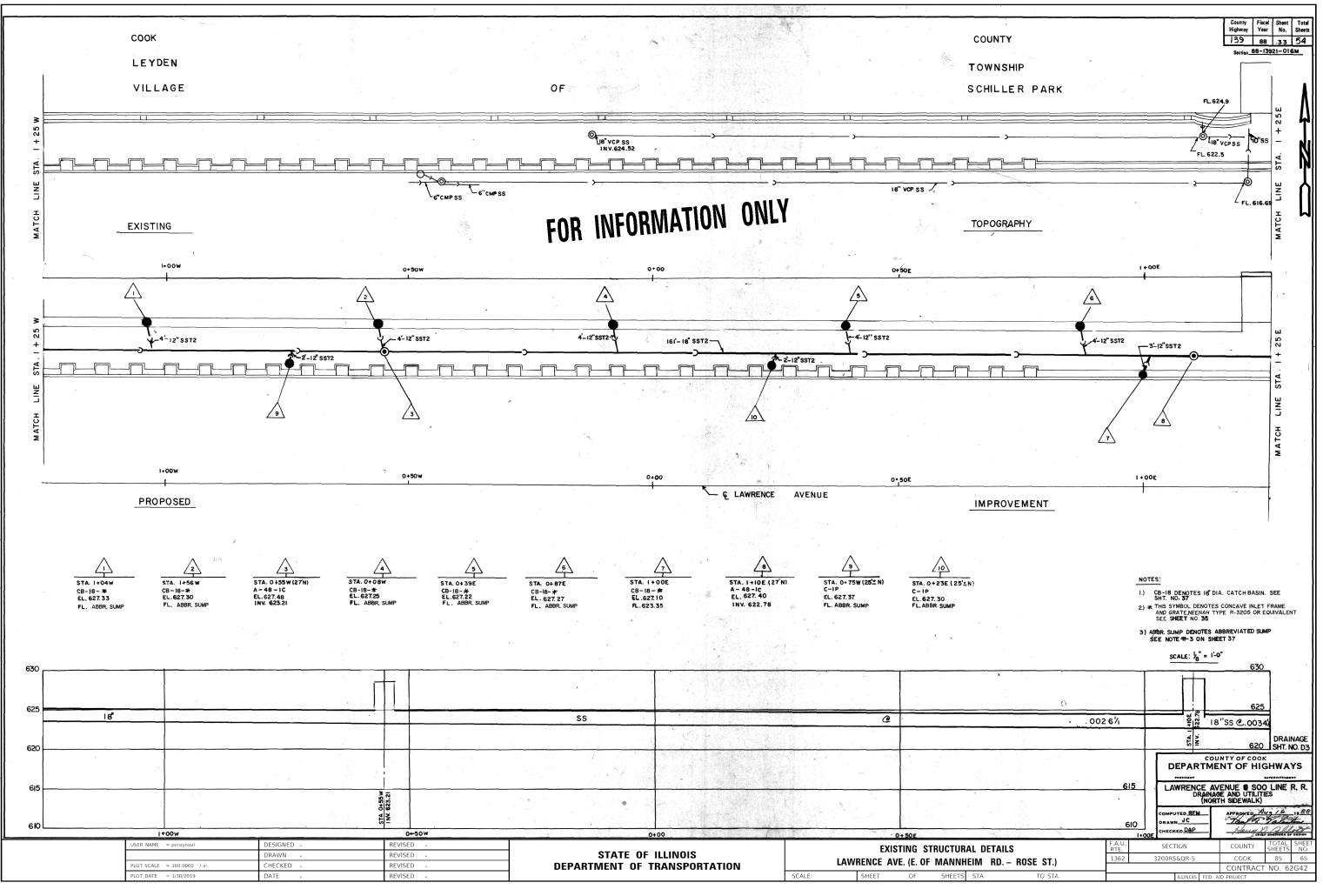
County Fiscal Sheet Highway Year No. 139 88 31 54 Section_88-13921-01 GM

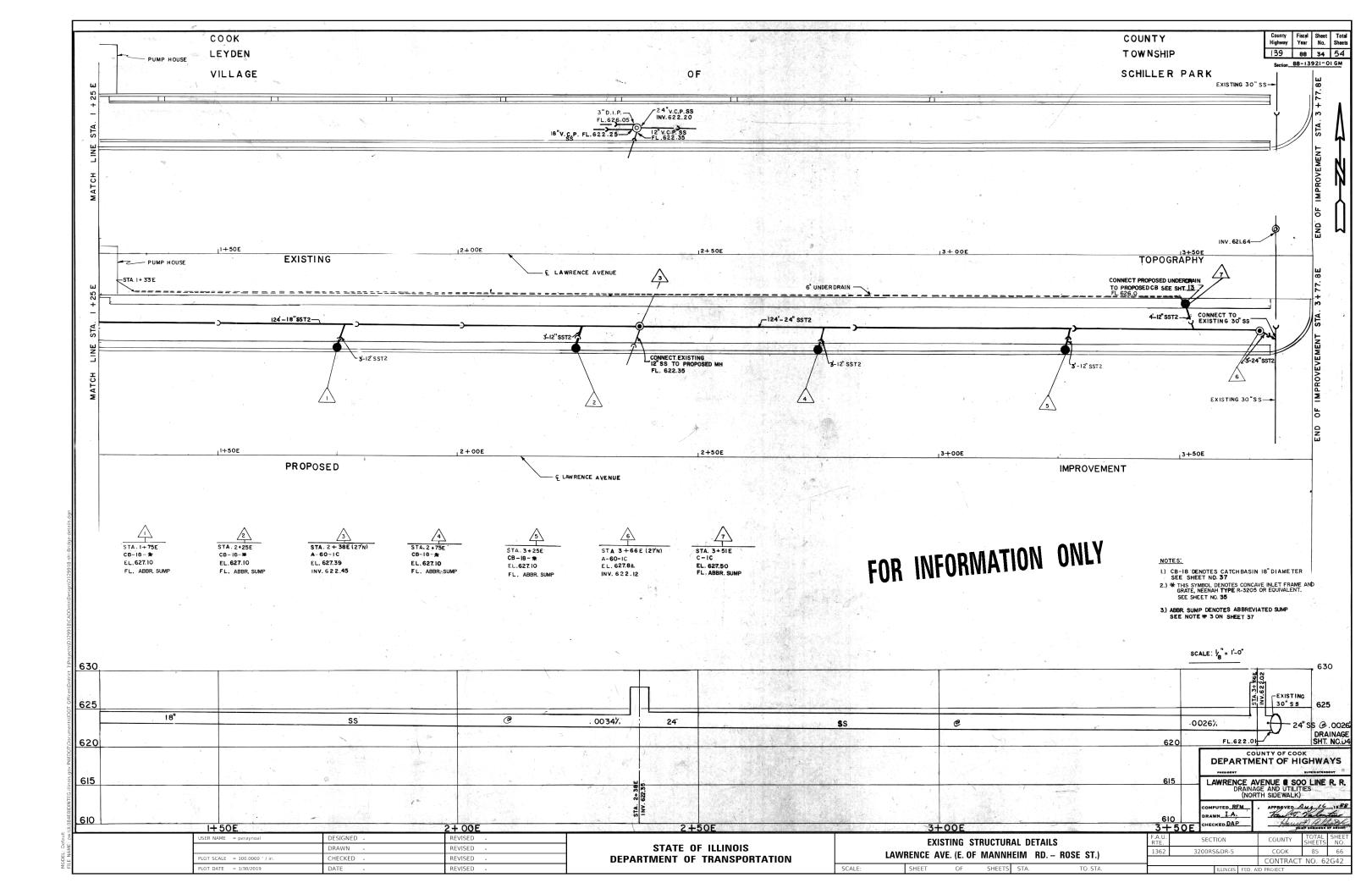
FOR INFORMATION ONLY

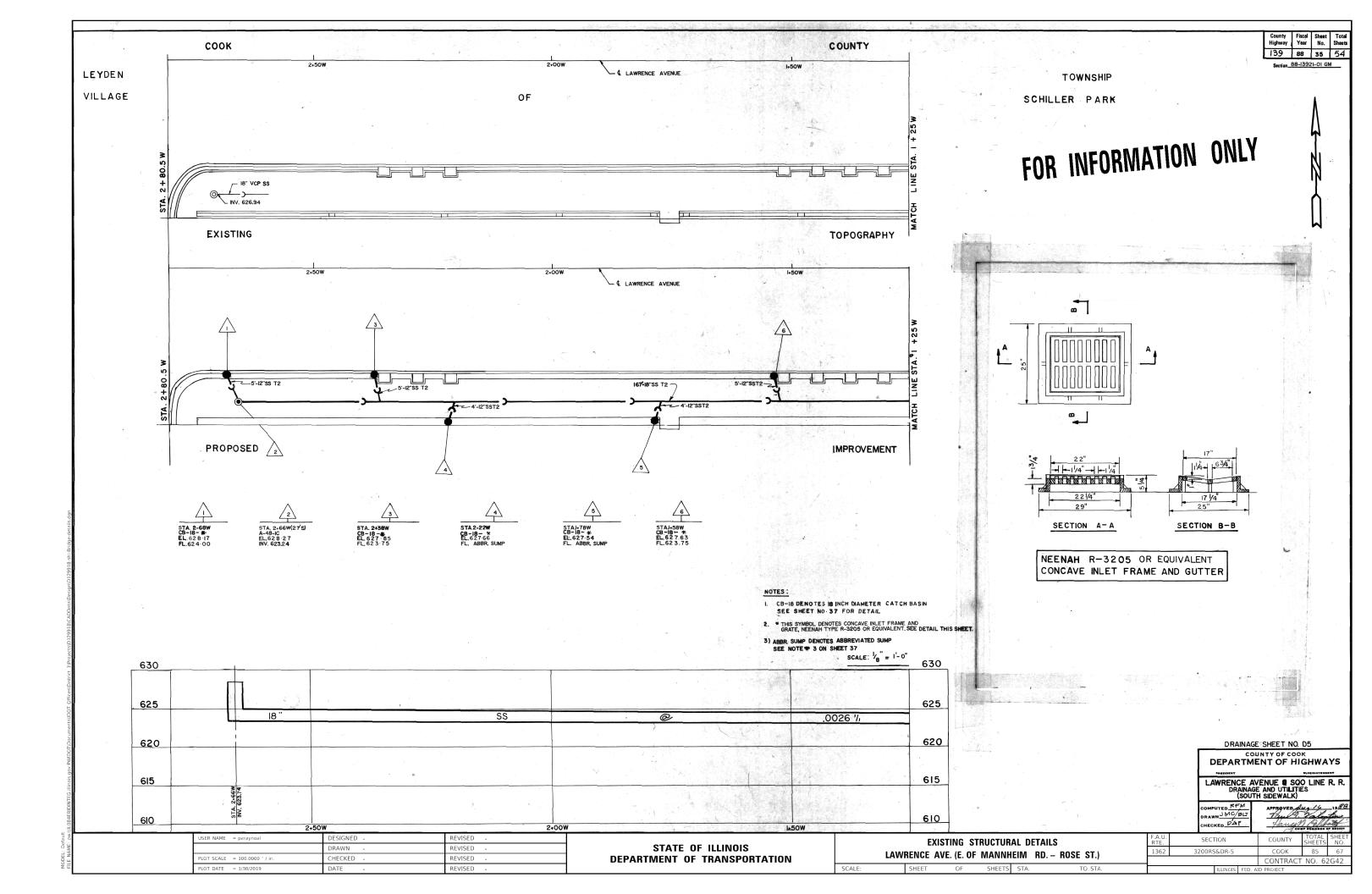
PIPE AWWA C151) B IN. TH FRAMES AND GRATES RAMES AND GRATES

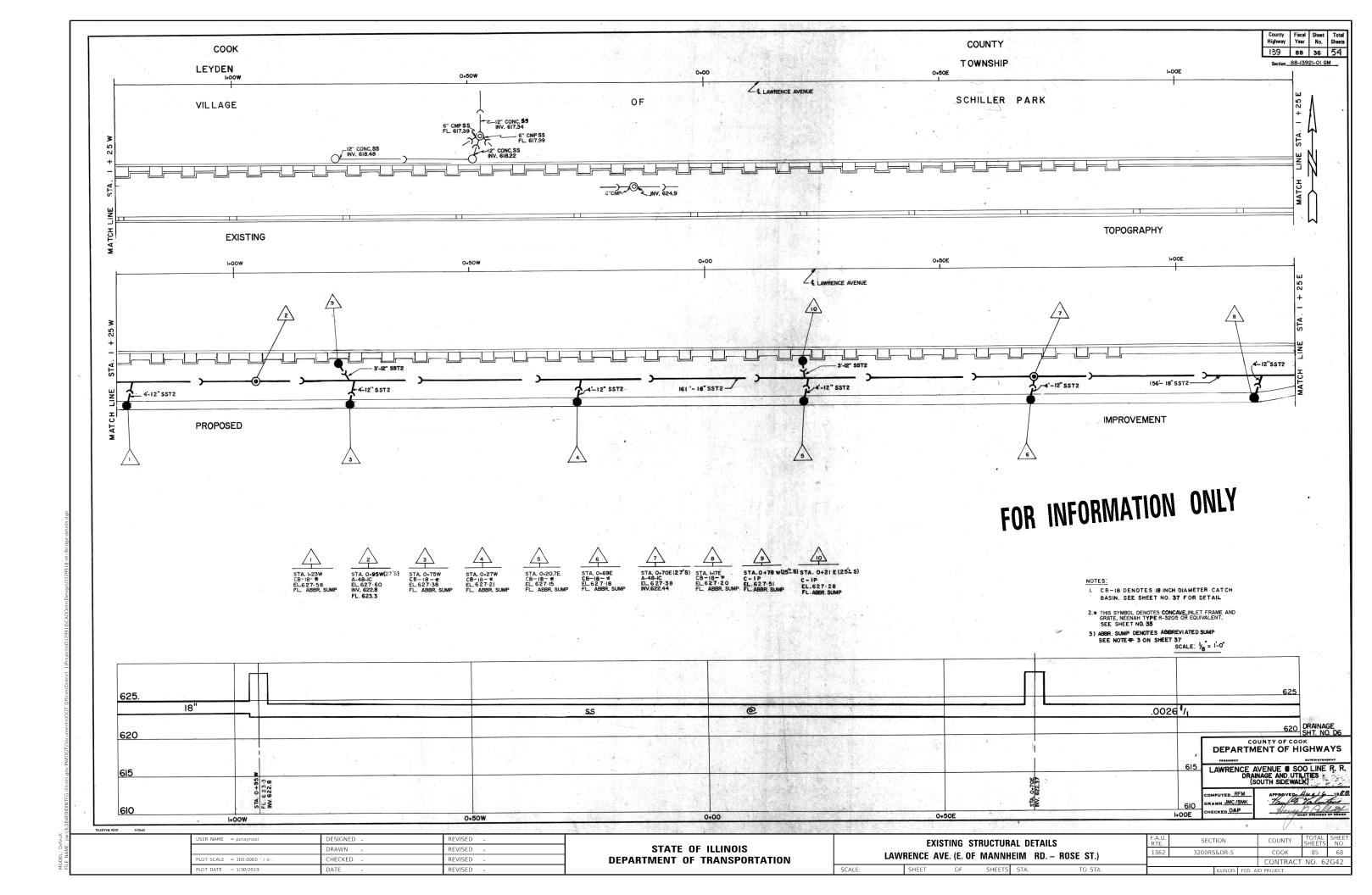
B IN. 10 IN. II) 12 IN. II) 18 IN. II) 24 IN. PIPE AWWA C151) 5 IN



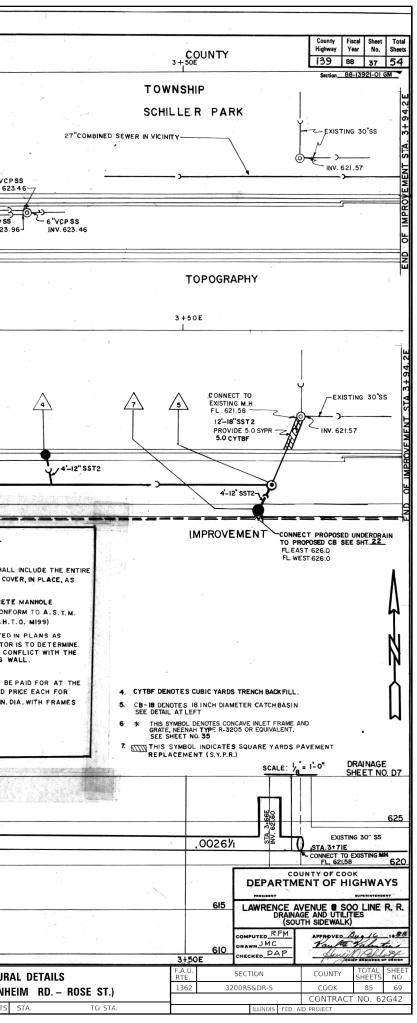


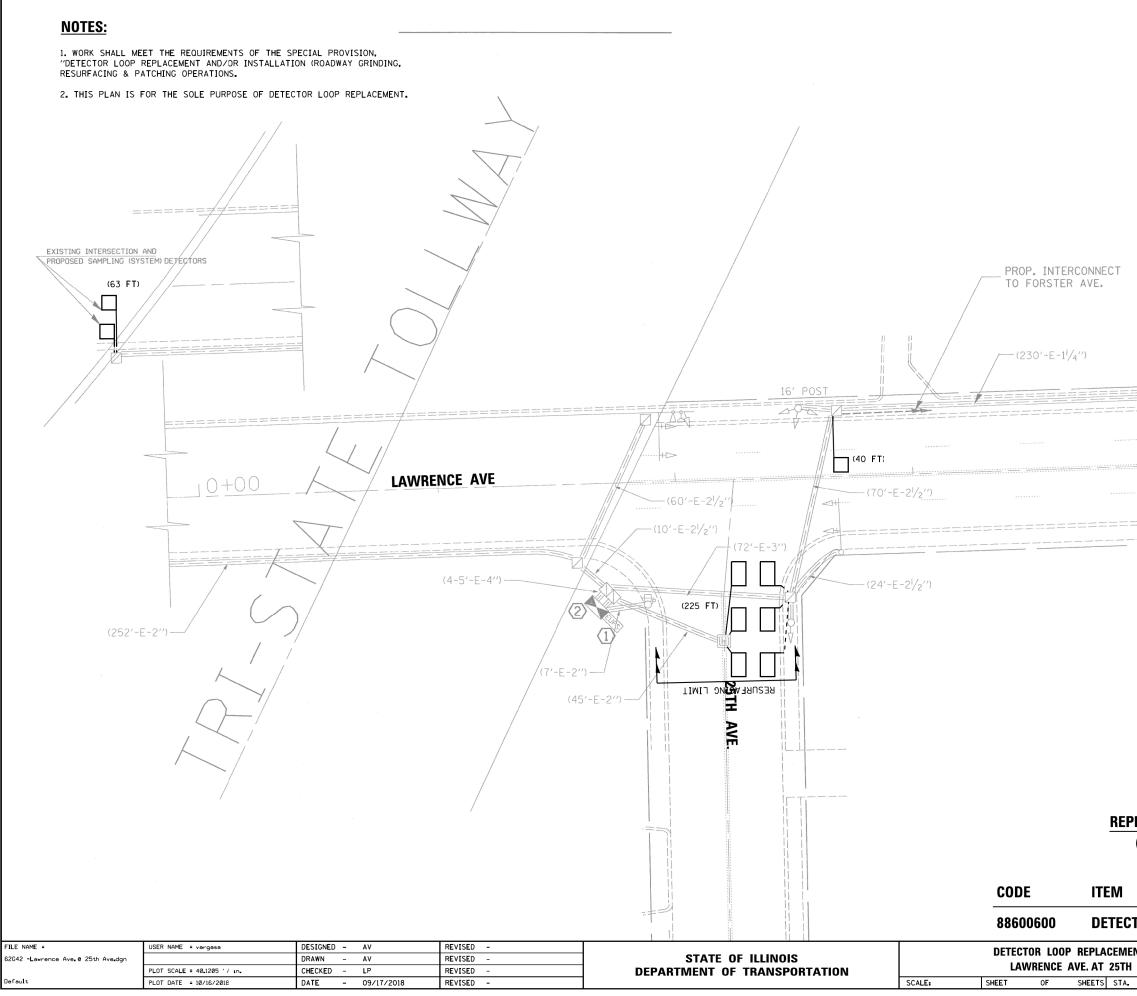




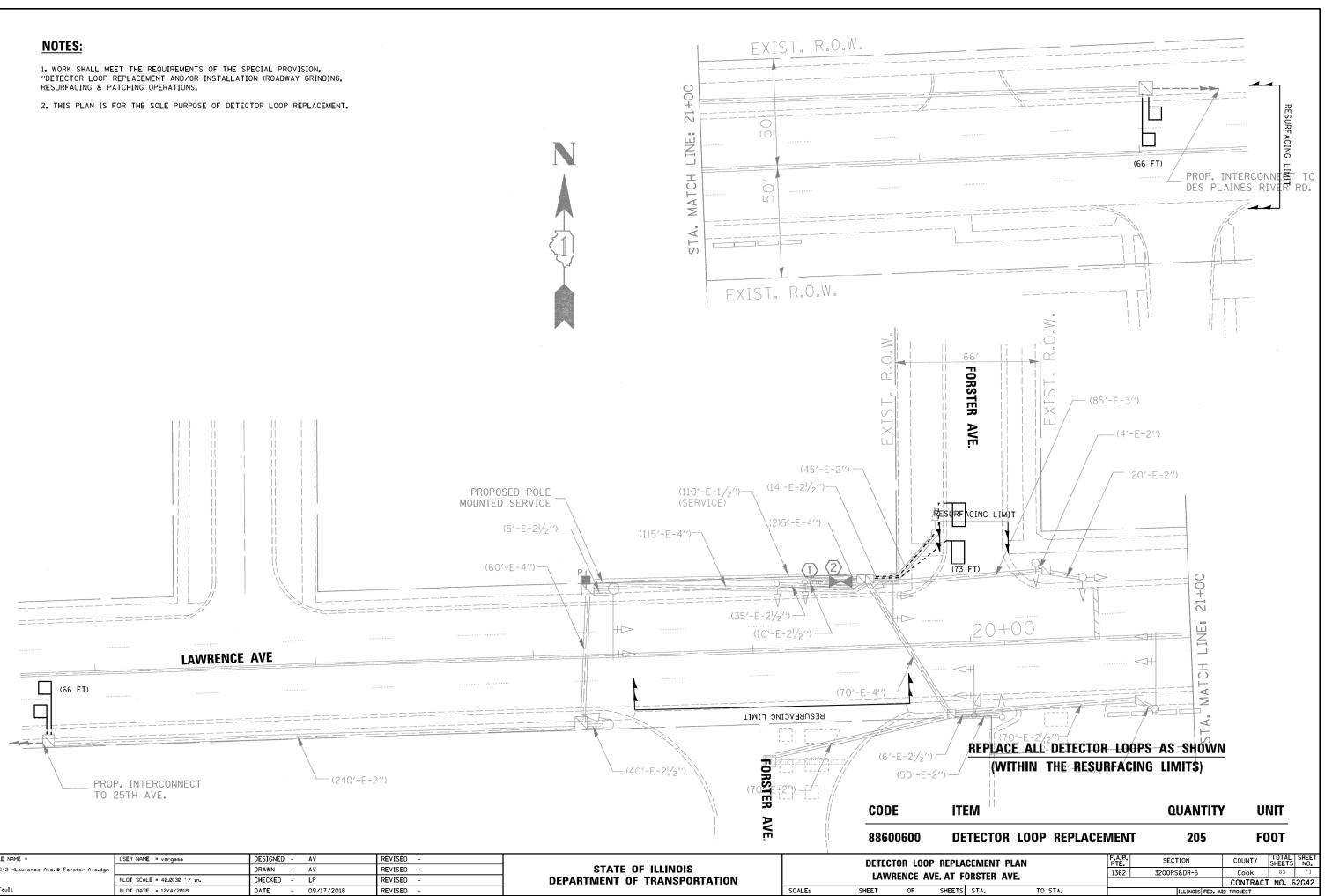


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MATCH				8" VCP SS FL. 623.66 INV. 625.66		
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STA. CB-18 EL.62 FL.62	-★ A - 48 - IC	3 4 STA 2* 38E C-1C EL.627.502 FL.622.50 STA 2+50E STA.3+25E CB-18-# EL.627.34 FL.622.25 FL.622.00	CATCH BASIN L CATCH BASIN L C-IC STA.3+64E C-IC EL.622.15 STA.3+66(27'5) A-48-IC EL.627.66 INV.621.60	OCATION DETAIL	RETAINING WALL	NOTE S: I. THE CONTRACT UNIT PRICE S STRUCTURE, WITH FRAME AND SPECIFIED ON THE PLANS. I. THE CONTRACT UNIT PRICE S STRUCTURE, WITH FRAME AND SPECIFIED ON THE PLANS. I. THE CONTRACT UNIT PRICE S STRUCTURE, WITH FRAME AND SPECIFIED ON THE PLANS. I. THE CONTRACT UNIT PRICE S SECTIONS (RISERS) SHALL CO DESIGNATION C-478 (A.A.S DESIGNATION C-478 (A.A.S S. I. FILOW I. FOR ALL CATCH BASINS NO ABBR. SUMP, THE CONTRACT THE SUMP DEPTH TO AVOID FOOTING OF THE RETAININ FOOTING OF THE RETAININ CONCRETE SLABS, NOT LESS THAN 12"
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(WITHIN THE RESU	RFACING	LIMITS)	
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TEM ETECTOR LOOP REPLACE	MENT	394	FOOT
	F.A.B. RTE.		



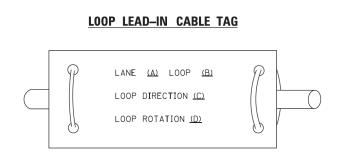
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62642 -Lawrence Ave.@ Forster Ave.dgn		DRAWN - AV	1	REVISED -	STATE OF ILLINOIS	1			
	PLOT SCALE = 40.0130 ' / 10.	CHECKED - LP)	REVISED -	DEPARTMENT OF TRANSPORTATION	1	LAWKE	ENCE AV	/E. AI F
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TRAFFIC SIGNAL LEGEND

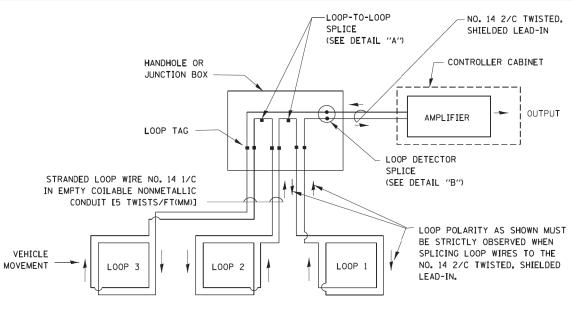
				(NOT TO SCALE)				
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET	\bowtie		HANDHOLE -SQUARE			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	R Y Y	R R
COMMUNICATION CABINET	ECC	СС						R R Y Y G G \mathcal{Y}Y \mathcal{A}Y \mathcal{A}G \mathcal{G}G
MASTER CONTROLLER	EMC	мс	HEAVY DUTY HANDHOLE -SQUARE -ROUND	H (B)	•			€ G € G
MASTER MASTER CONTROLLER	ЕММС	ммс	DOUBLE HANDHOLE					•
UNINTERRUPTABLE POWER SUPPLY	4	Ø	JUNCTION BOX	\bigcirc	0	SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	R R R Y Y Y	R Y Y Y
SERVICE INSTALLATION	P	- - P	RAILROAD CANTILEVER MAST ARM	X OX X X	X eI X X			$ \begin{array}{c c} R \\ Y \\ G \\ \Psi \\ \Psi$
-(P) POLE MOUNTED SERVICE INSTALLATION			RAILROAD FLASHING SIGNAL	XoX	X+X		P RB	€ G € G € G ₽ RB
-(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	$\boxtimes^{G} \boxtimes^{GM}$	G GM	RAILROAD CROSSING GATE	X oX >	X• X -	PEDESTRIAN SIGNAL HEAD		₽
TELEPHONE CONNECTION	ET	T	RAILROAD CROSSBUCK	本	¥	AT RAILROAD INTERSECTIONS	X	Ŕ
STEEL MAST ARM ASSEMBLY AND POLE	0	•	RAILROAD CONTROLLER CABINET		\mathbf{M}	PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C C	₽ ► ► ► ►
ALUMINUM MAST ARM ASSEMBLY AND POLE	\bigcirc		UNDERGROUND CONDUIT (UC), GALVANIZED STEEL					
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	0-X	•*	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		9
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY	0	• • BM	SYSTEM ITEM	S	SP	NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE.	5	(5)
WOOD POLE	\otimes	Θ	INTERSECTION ITEM	Ι	IP	ALL DETECTOR LOOP CABLE TO BE SHIELDED	~	
GUY WIRE	>	~ ~	REMOVE ITEM		R	GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		(1#6)
SIGNAL HEAD	>	->-	RELOCATE ITEM ABANDON ITEM		RL	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
SIGNAL HEAD WITH BACKPLATE	+>	+►	CONTROLLER CABINET AND			COAXIAL CABLE		— <u>c</u> —
SIGNAL HEAD OPTICALLY PROGRAMMED		→ ^P +→ ^P	FOUNDATION TO BE REMOVED		RCF			
FLASHER INSTALLATION	ord F ord FS	•• F •• FS	MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	VENDOR CABLE		
-(FS) SOLAR POWERED		F ■ FS	SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6*18
PEDESTRIAN SIGNAL HEAD	-0	-1	DETECTOR LOOP, TYPE I			FIBER OPTIC CABLE -NO. 62.5/125, MM12F	12F	
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	Ø Ø APS		PREFORMED DETECTOR LOOP		P P	-NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	24F	24F
RADAR DETECTION SENSOR	RJ	R	SAMPLING (SYSTEM) DETECTOR	$\begin{bmatrix} \underline{s} \end{bmatrix}$ (\widehat{s})	5 (5)		36F	36F)
VIDEO DETECTION CAMERA		V	INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	[IS] (IS)	IS (IS)			
RADAR/VIDEO DETECTION ZONE			QUEUE AND SAMPLING (SYSTEM) DETECTOR		as (as	GROUND ROD -(C) CONTROLLER -(M) MAST ARM	<u><u> </u></u>	^{≟C} ^{≟M} ^{≟P} ^{≟S}
PAN, TILT, ZOOM (PTZ) CAMERA	PTZA	PTZ	WIRELESS DETECTOR SENSOR	(i)	@	-(P) POST -(S) SERVICE		
EMERGENCY VEHICLE LIGHT DETECTOR	\bigtriangledown		WIRELESS ACCESS POINT					
CONFIMATION BEACON	0(]	н						
WIRELESS INTERCONNECT	0+ 1 	●++ -						
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR						
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LOOP DETECTOR NOTES

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

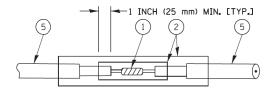


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

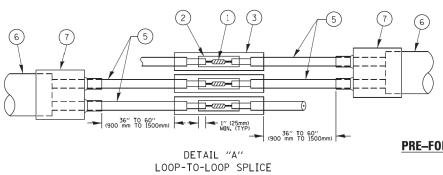


DETECTOR LOOP WIRING SCHEMATIC

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



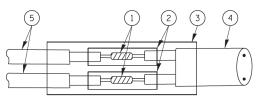
DETAIL "A" LOOP-TO-LOOP SPLICE



LOOP DETECTOR SPLICE

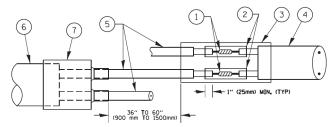
- $\fbox{(1)}$ western union splice soldered with rosin core flux. All exposed sufficient of the split split of the split spl OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE S
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

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DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

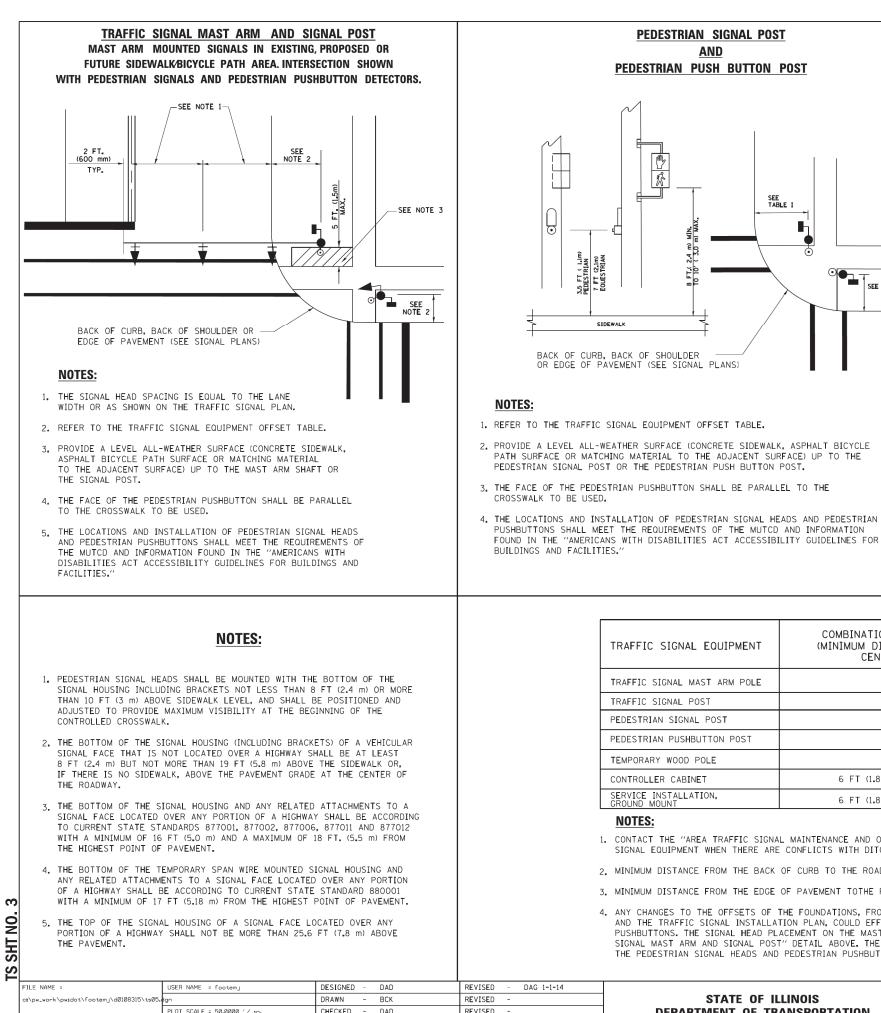


PRE-FORMED LOOP

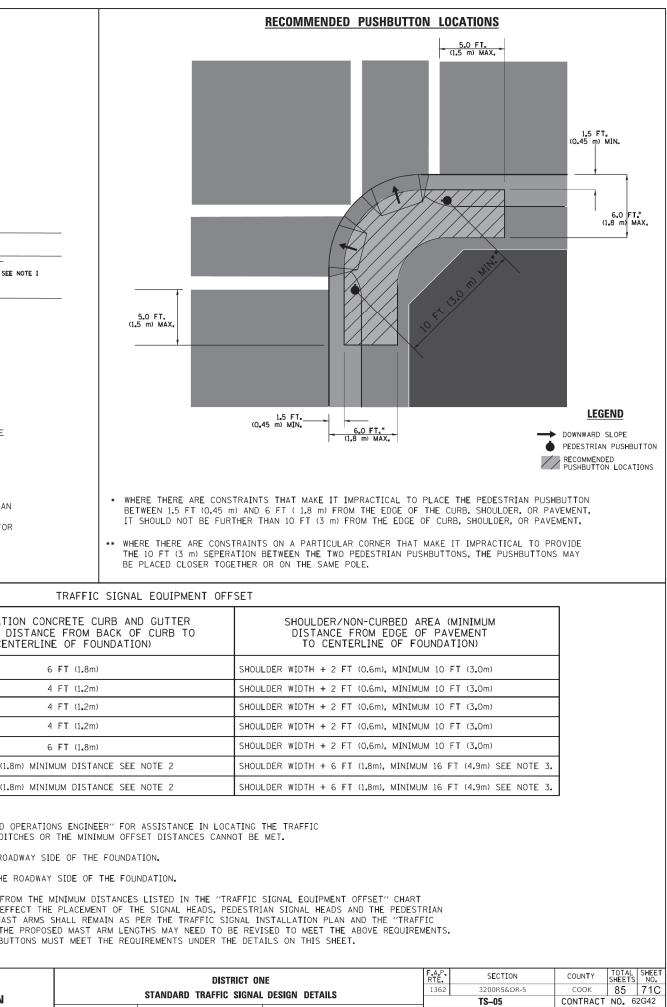
DETAIL "B" LOOP-TO-CONTROLLER SPLICE

	(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
STAGGERED.	6 PRE-FORMED LOOP
R GRADE.	
R GRADE.	T SEAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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1.01	AL DESIGN DETAILS			3200RS&DR-5	соок 85		71B	
	DESIGN	DETAILS		TS-05 CONTRACT NO. 62G4				
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TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOUL
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOUL
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOUL
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOUL
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOUL
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOUL
NOTEC.		

- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.

AND

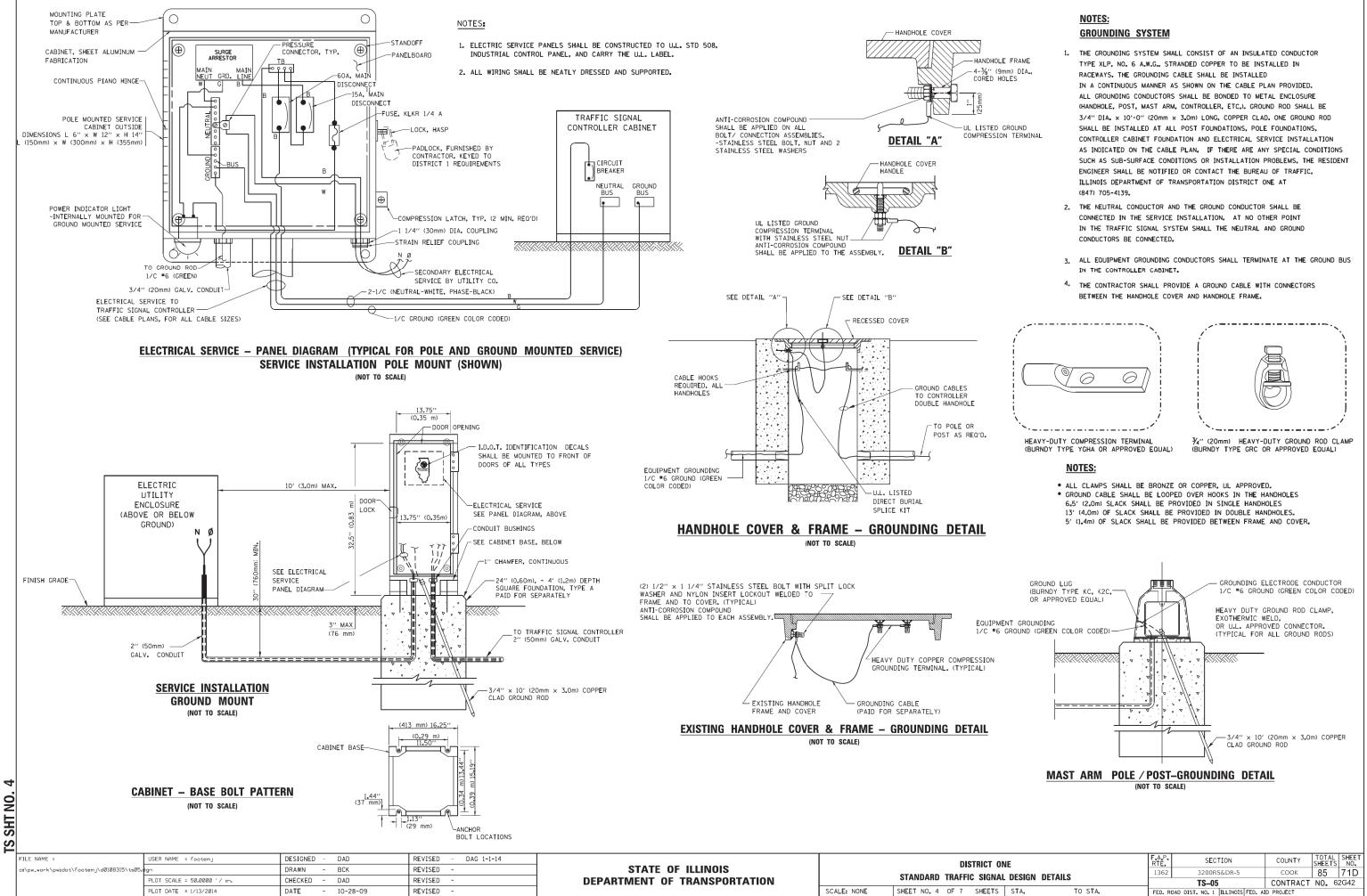
SEE TABLE I

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3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE ROADWAY SIDE OF THE FOUNDATION.

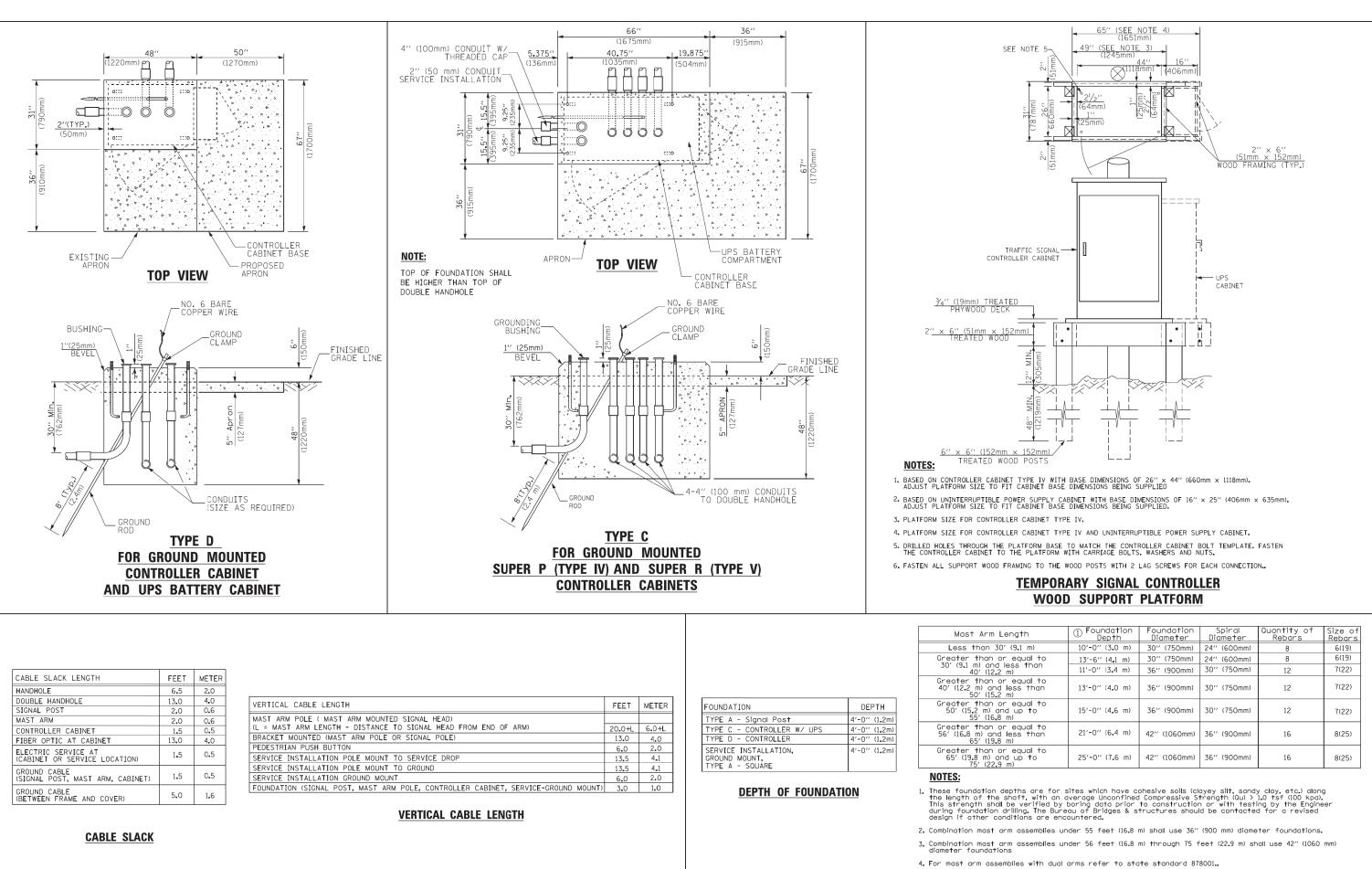
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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		PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 3 OF 7 SHEETS STA.



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SHEET NO. 4 OF 7 SHEETS STA. SCALE: NONE

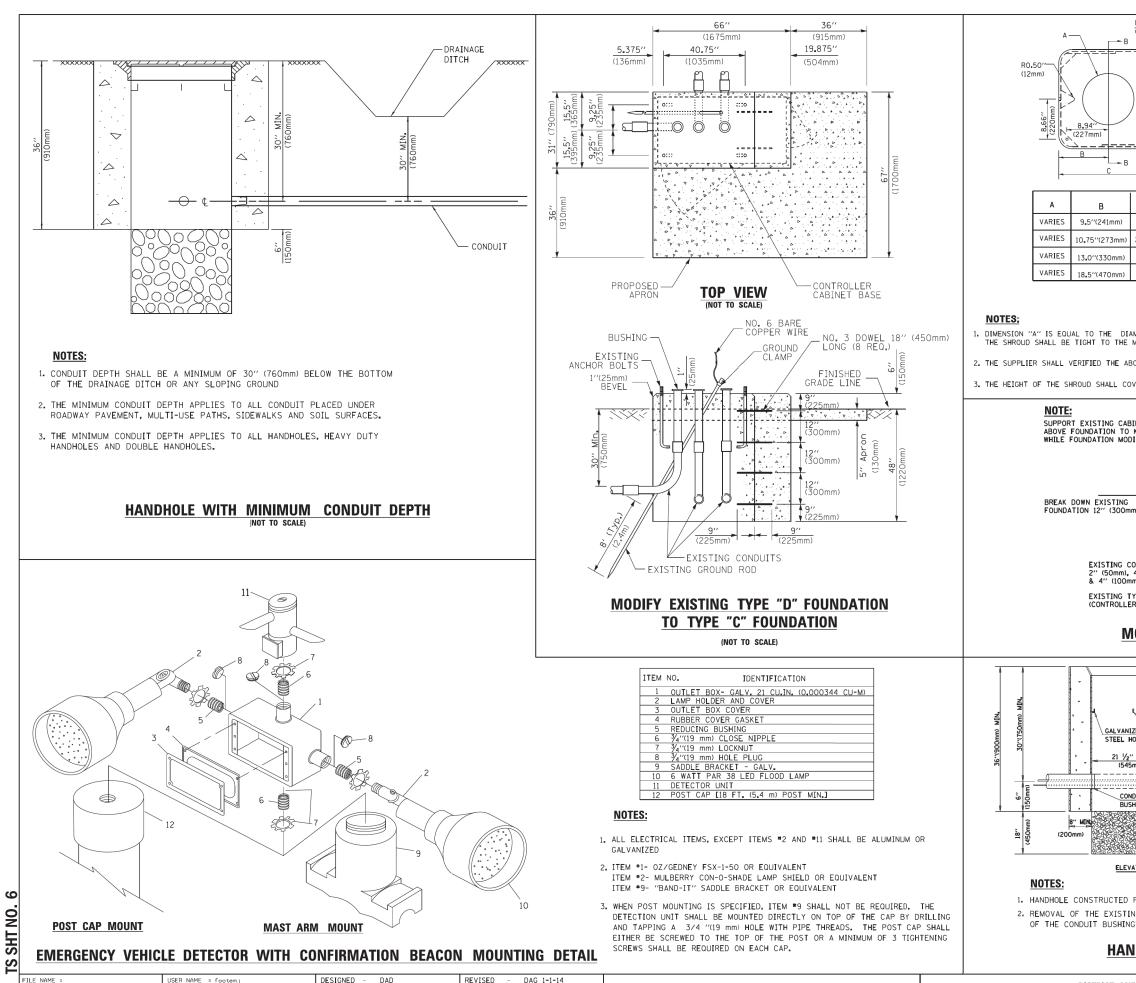


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		PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS STA. TO STA.	FED. ROAD D		AID PROJECT

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.ength	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
)′ (9 . 1 m)	10'-0'' (3.0 m)	30'' (750mm)	24'' (600mm)	8	6(19)
r equal to	13'-6'' (4 . 1 m)	30'' (750mm)	24'' (600mm)	8	6(19)
less than m)	11'-0'' (3.4 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	13'-0'' (4.0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to nd up to m)	15'-0'' (4 . 6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
r equal to less than m)	21'-0" (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
r equal to nd up t o m)	25'-0" (7.6 m)	42'' (1060mm)	36'' (900mm)	16	8(25)

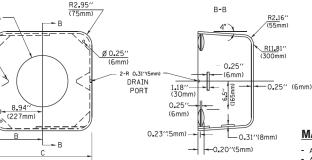
DEPTH OF MAST ARM FOUNDATIONS, TYPE E



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DISTRICT 0 TATE OF ILLINOIS STANDARD TRAFFIC SIGNA IENT OF TRANSPORTATION SCALE: NONE SHEET NO. 6 OF 7 SHEETS



MATERIAL:

- ASTM A36 STEEL - ASTM A-123 HOT DIPPED GALVANIZED

	С	HEIGHT	WEIGHT
1)	19''(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
m)	21.5''(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
m)	26''(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
n)	37''(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

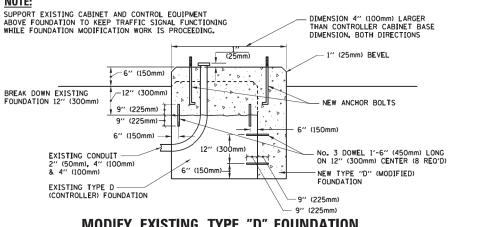
SHROUD

B

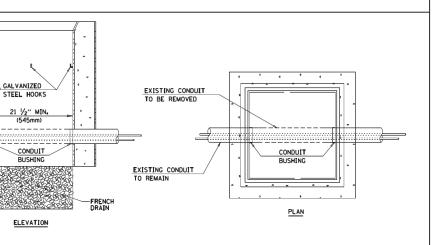
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.

2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.

3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



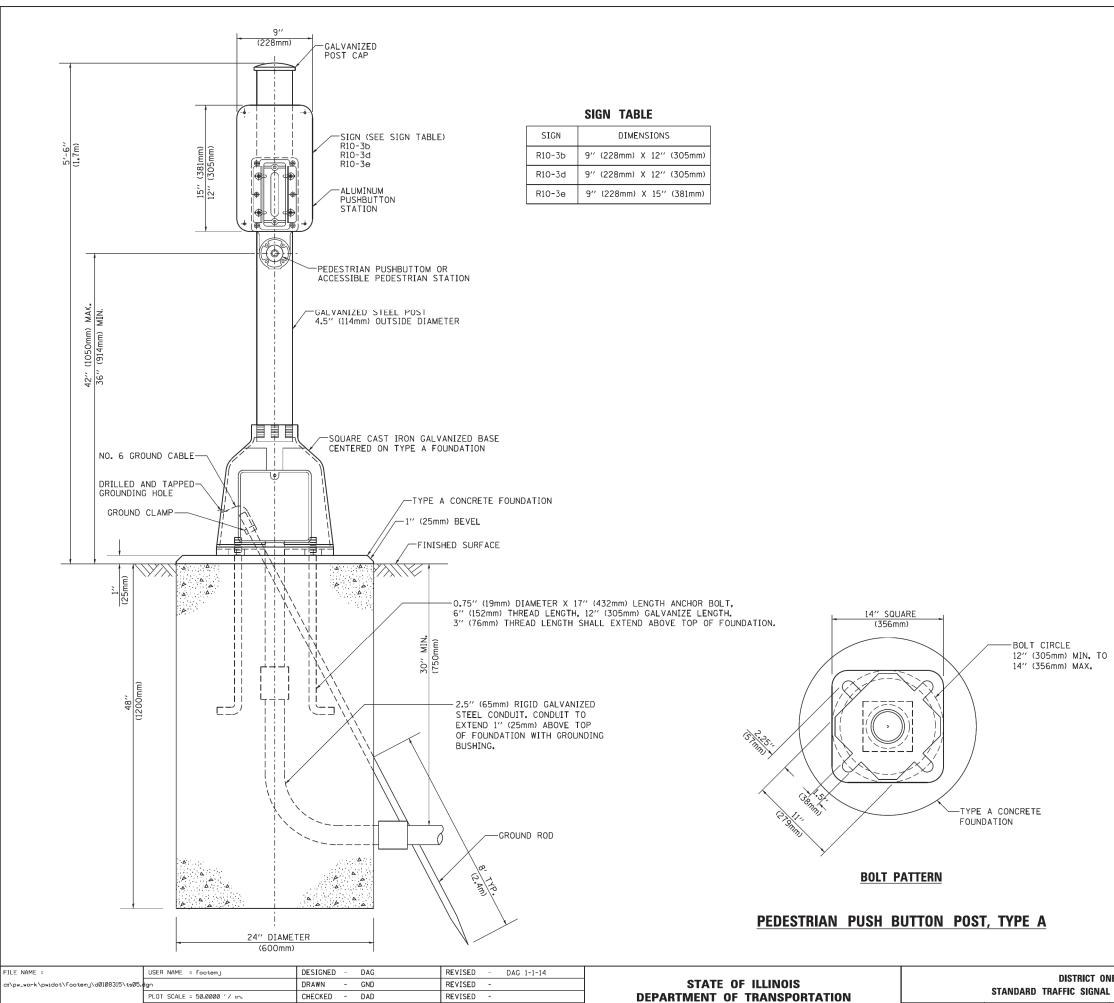




1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001. 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

10	NE		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	DESIGN	DESIGN DETAILS						
~	. DESIGN	DETAILS		TS-05 CONTRACT NO. 62G4				
5	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



TS SHT NO.

PLOT DATE = 1/13/2014

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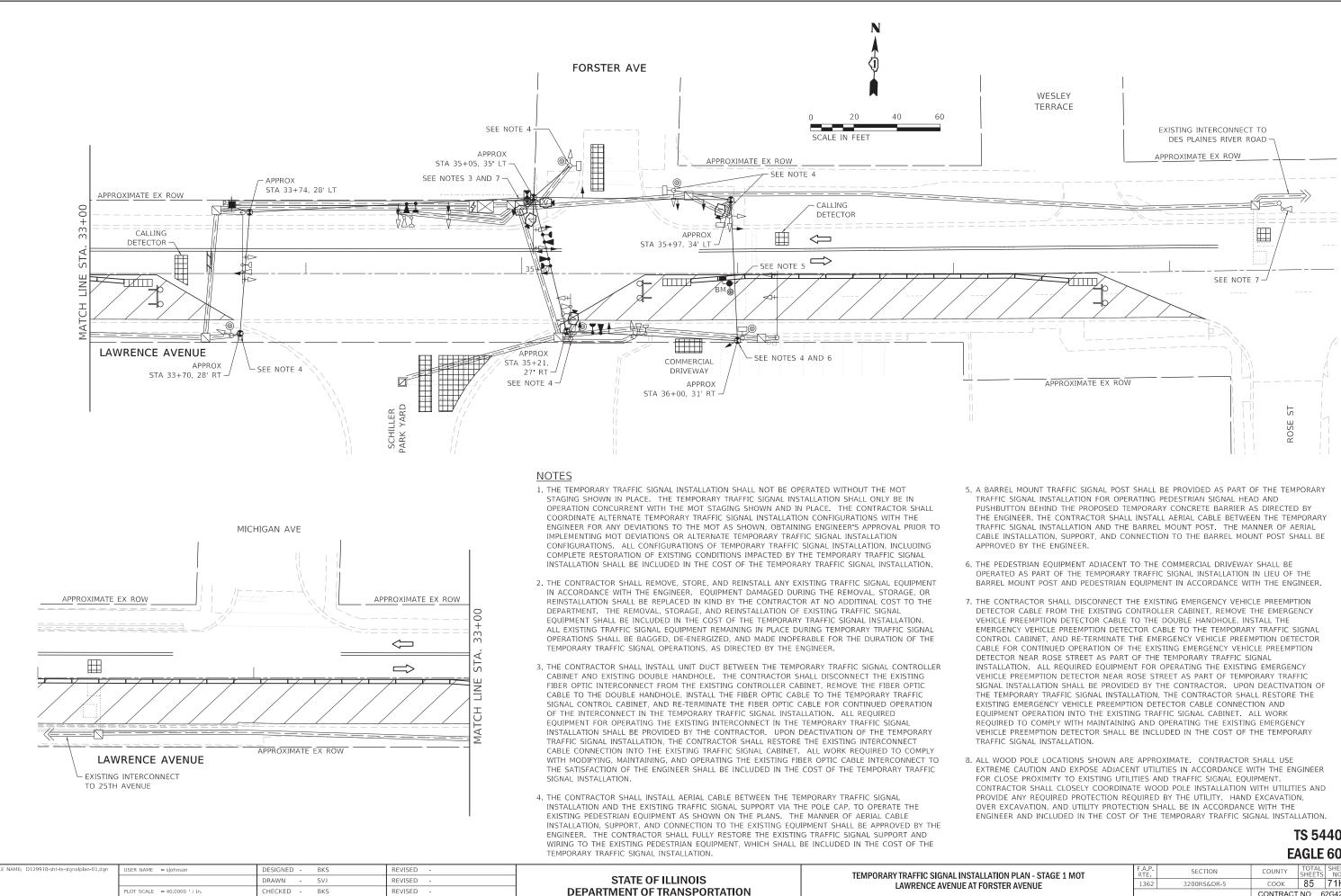
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STANDARD TRAFFIC SIGNA SCALE: NONE

SHEET NO. 7 OF 7 SHEETS

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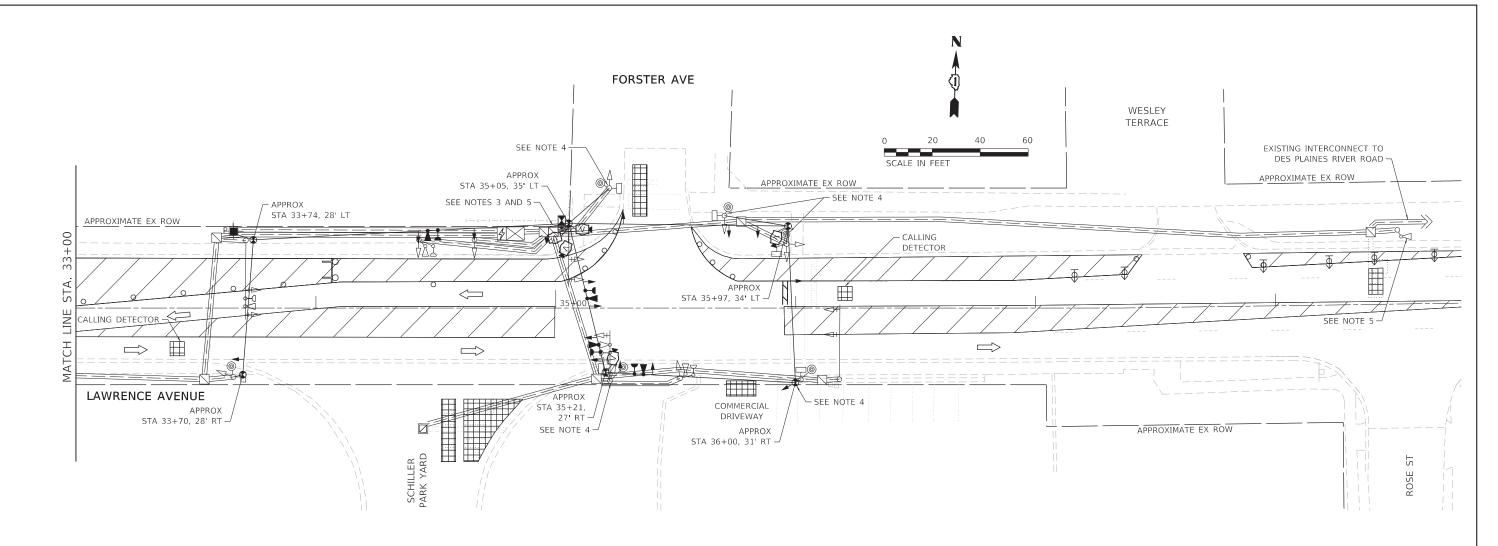
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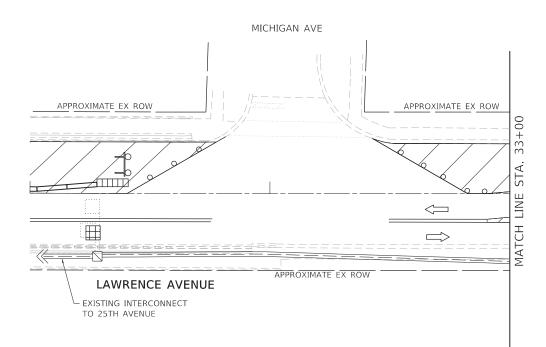
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SCALE: 1"=20' SHEET OF SHEET

TS 5440 EAGLE 60

LLATION PLAN - STAGE 1 MOT FORSTER AVENUE		F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		1362 3200RS&DR-5			85	71H
				CONTRACT	NO. 6	2G42
TS STA. TO STA.		ILLINOIS	FED. AI	ID PROJECT		





NOTES

- 1. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL NOT BE OPERATED WITHOUT THE MOT STAGING SHOWN IN PLACE. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL ONLY BE IN OPERATION CONCURRENT WITH THE MOT STAGING SHOWN AND IN PLACE. THE CONTRACTOR SHALL COORDINATE ALTERNATE TEMPORARY TRAFFIC SIGNAL INSTALLATION CONFIGURATIONS WITH THE ENGINEER FOR ANY DEVIATIONS TO THE MOT AS SHOWN, OBTAINING ENGINEER'S APPROVAL PRIOR TO IMPLEMENTING MOT DEVIATIONS OR ALTERNATE TEMPORARY TRAFFIC SIGNAL INSTALLATION CONFIGURATIONS. ALL CONFIGURATIONS OF TEMPORARY TRAFFIC SIGNAL INSTALLATION, INCLUDING COMPLETE RESTORATION OF EXISTING CONDITIONS IMPACTED BY THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.
- 2. THE CONTRACTOR SHALL REMOVE, STORE, AND REINSTALL ANY EXISTING TRAFFIC SIGNAL EQUIPMENT IN ACCORDANCE WITH THE ENGINEER. EQUIPMENT DAMAGED DURING THE REMOVAL, STORAGE, OR REINSTALLATION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEPARTMENT. THE REMOVAL, STORAGE, AND REINSTALLATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMAINING IN PLACE DURING TEMPORARY TRAFFIC SIGNAL OPERATIONS SHALL BE BAGGED, DE-ENERGIZED, AND MADE INOPERABLE FOR THE DURATION OF THE TEMPORARY TRAFFIC SIGNAL OPERATIONS, AS DIRECTED BY THE ENGINEER.
- 3. THE CONTRACTOR SHALL INSTALL UNIT DUCT BETWEEN THE TEMPORARY TRAFFIC SIGNAL CONTROLLER CABINET AND EXISTING DOUBLE HANDHOLE. THE CONTRACTOR SHALL DISCONNECT THE EXISTING FIBER OPTIC INTERCONNECT FROM THE EXISTING CONTROLLER CABINET, REMOVE THE FIBER OPTIC CABLE TO THE DOUBLE HANDHOLE. INSTALL THE FIBER OPTIC CABLE TO THE TEMPORARY TRAFFIC SIGNAL CONTROL CABINET, AND RE-TERMINATE THE FIBER OPTIC CABLE FOR CONTINUED OPERATION OF THE INTERCONNECT IN THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. ALL REQUIRED EQUIPMENT FOR OPERATING THE EXISTING INTERCONNECT IN THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR. UPON DEACTIVATION OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL RESTORE THE EXISTING INTERCONNECT CABLE CONNECTION INTO THE EXISTING TRAFFIC SIGNAL CABINET. ALL WORK REQUIRED TO COMPLY WITH MODIFYING, MAINTAINING, AND OPERATING THE EXISTING FIBER OPTIC CABLE INTERCONNECT TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

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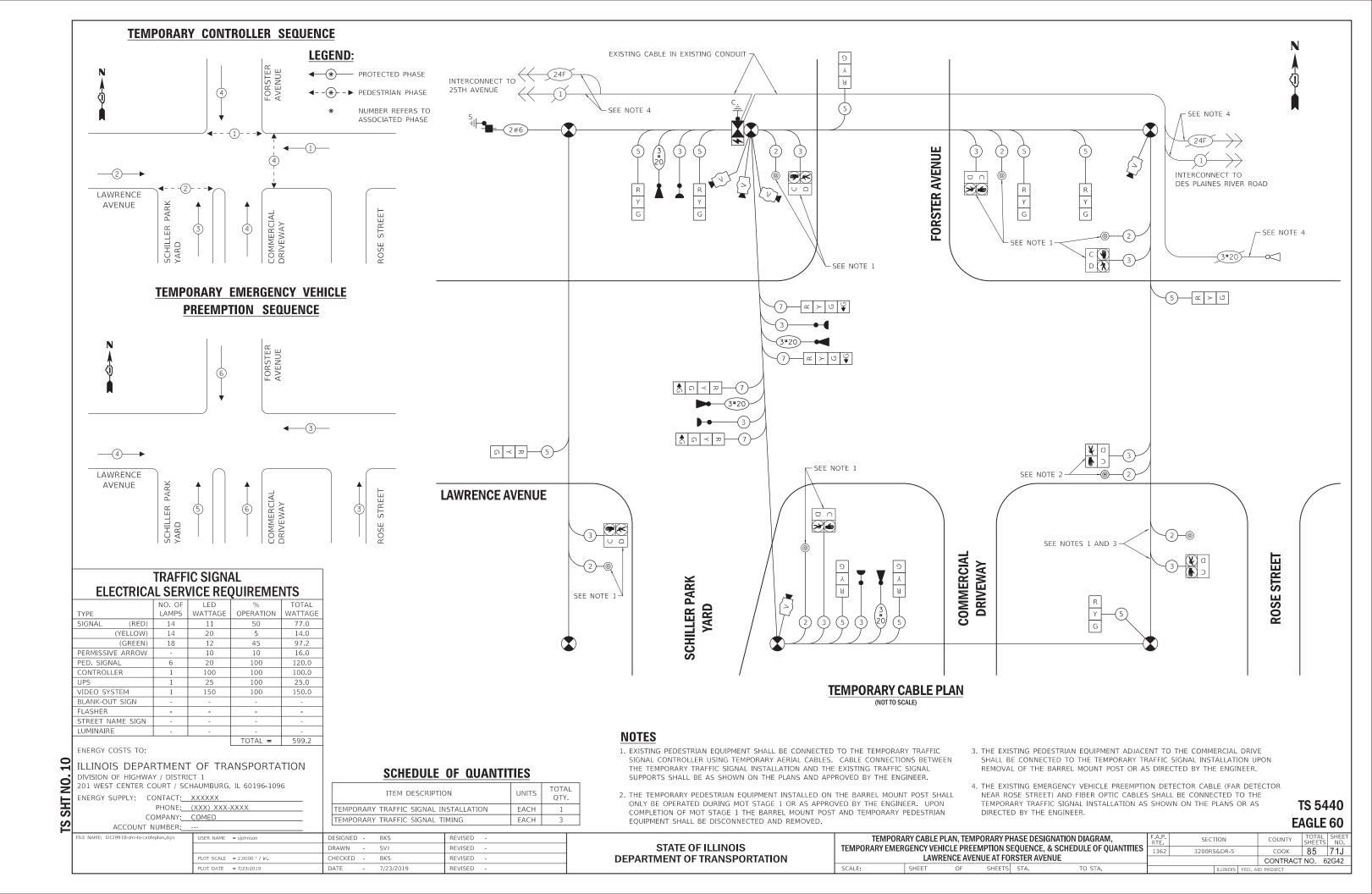
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· [FILE NAME: D129918-sht-ts-signalplan-02.dgn	USER NAME = sjohnson	DESIGNED - BKS	REVISED -		TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN - STAGE 2 MOT	F.A.P. SECTION COUNTY	Y TOTAL SHEET
			DRAWN - SVJ	REVISED -	STATE OF ILLINOIS	LAWRENCE AVENUE AT FORSTER AVENUE	1362 3200RS&DR-5 COOK	
		PLOT SCALE = 40.0000 ' / in.	CHECKED - BKS	REVISED -	DEPARTMENT OF TRANSPORTATION	LAWRENGE AVENUE AT FORSTER AVENUE		ACT NO 62G42
l		PLOT DATE = 7/23/2019	DATE - 7/23/2019	REVISED -		SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT	

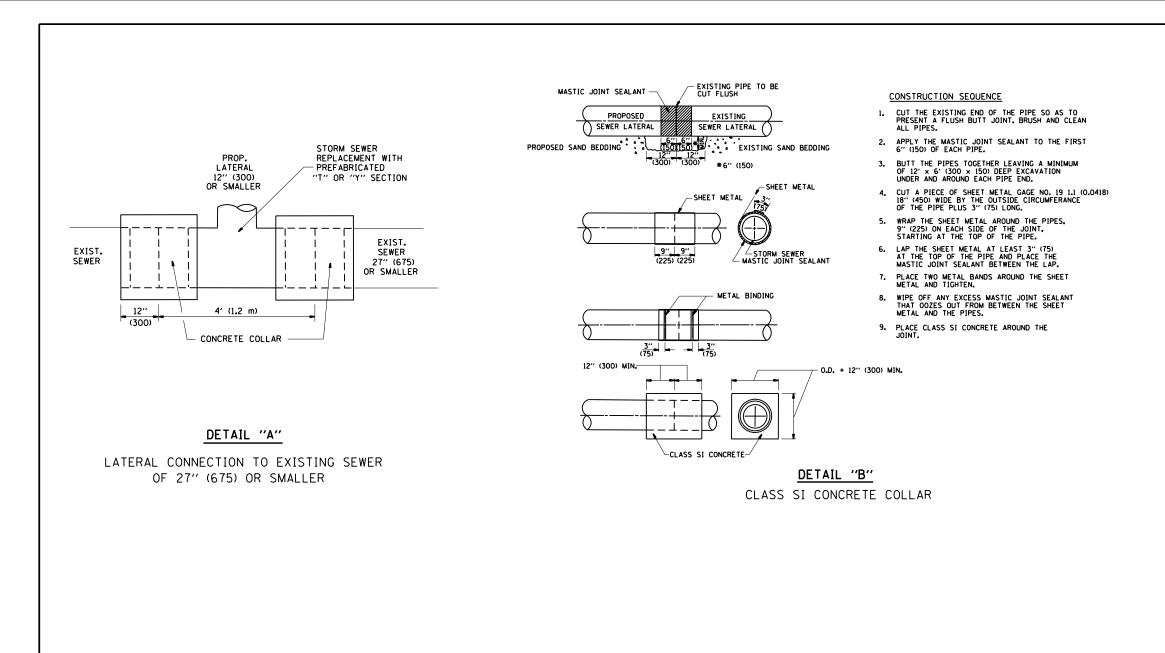
4. THE CONTRACTOR SHALL INSTALL AERIAL CABLE BETWEEN THE TEMPORARY TRAFFIC SIGNAL INSTALLATION AND THE EXISTING TRAFFIC SIGNAL SUPPORT VIA THE POLE CAP, TO OPERATE THE EXISTING PEDESTRIAN EQUIPMENT AS SHOWN ON THE PLANS. THE MANNER OF AERIAL CABLE INSTALLATION, SUPPORT, AND CONNECTION TO THE EXISTING EQUIPMENT SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL FULLY RESTORE THE EXISTING TRAFFIC SIGNAL SUPPORT AND WIRING TO THE EXISTING PEDESTRIAN FOULPMENT WHICH SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

5. THE CONTRACTOR SHALL DISCONNECT THE EXISTING EMERGENCY VEHICLE PREEMPTION DETECTOR CABLE FROM THE EXISTING CONTROLLER CABINET, REMOVE THE EMERGENCY VEHICLE PREEMPTION DETECTOR CABLE TO THE DOUBLE HANDHOLE, INSTALL THE EMERGENCY VEHICLE PREEMPTION DETECTOR CABLE TO THE TEMPORARY TRAFFIC SIGNAL CONTROL CABINET, AND RE-TERMINATE THE EMERGENCY VEHICLE PREEMPTION DETECTOR CABLE FOR CONTINUED OPERATION OF THE EXISTING EMERGENCY VEHICLE PREEMPTION DETECTOR NEAR ROSE STREET AS PART OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. ALL REQUIRED EQUIPMENT FOR OPERATING THE EXISTING EMERGENCY VEHICLE PREEMPTION DETECTOR NEAR ROSE STREET AS PART OF TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR. UPON DEACTIVATION OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL RESTORE THE EXISTING EMERGENCY VEHICLE PREEMPTION DETECTOR CABLE CONNECTION AND EQUIPMENT OPERATION INTO THE EXISTING TRAFFIC SIGNAL CABINET. ALL WORK REQUIRED TO COMPLY WITH MAINTAINING AND OPERATING THE EXISTING EMERGENCY VEHICLE PREEMPTION DETECTOR SHALL BE INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

6. ALL WOOD POLE LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL USE EXTREME CAUTION AND EXPOSE ADJACENT UTILITIES IN ACCORDANCE WITH THE ENGINEER FOR CLOSE PROXIMITY TO EXISTING UTILITIES AND TRAFFIC SIGNAL EQUIPMENT. CONTRACTOR SHALL CLOSELY COORDINATE WOOD POLE INSTALLATION WITH UTILITIES AND PROVIDE ANY REQUIRED PROTECTION REQUIRED BY THE UTILITY. HAND EXCAVATION, OVER EXCAVATION, AND UTILITY PROTECTION SHALL BE IN ACCORDANCE WITH THE ENGINEER AND INCLUDED IN THE COST OF THE TEMPORARY TRAFFIC SIGNAL INSTALLATION.

> TS 5440 FAGLE 60





NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- I. THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- II. CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - A) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - B) PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EOUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST

BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

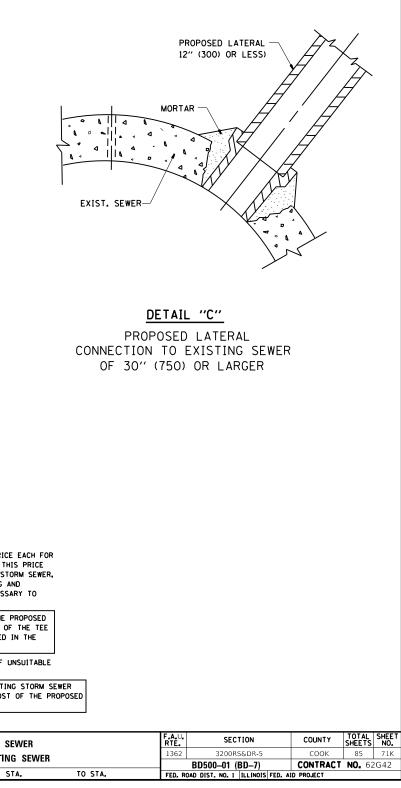
TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REDUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

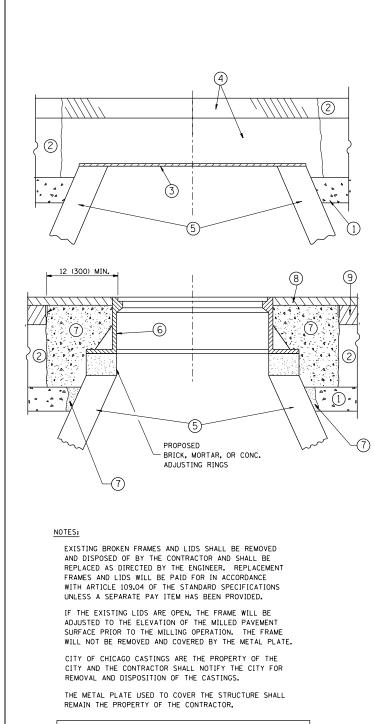
TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

 FILE NAME =	USER NAME = paraynoal	DESIGNED - M. DE YONG	REVISED - M. DE YONG 05-08-92			DETAIL OF STORM S
pw:\\planroom.dot.illinois.gov:PWIDOT\Docu	nents\IDOT Offices\District 1\Projects\D12991	31 DRAWN a\Design\DistStd.dgn	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS	1	
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED - R. SHAH 10-25-94	DEPARTMENT OF TRANSPORTATION	1	CONNECTION TO EXISTIN
	PLOT DATE = 7/25/2019	DATE - 07-25-90	REVISED - R. SHAH 06-12-96		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS S



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



WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED. THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

FILE NAME =		USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED	- R. WIEDEMAN 05-14-04				DETAILS	FOR		F.A.U.		SECTION	COUNTY	TOTAL	SHEET
pw:\\IL084EBIDIN	INTEG.1111no15.gov:PWIDOT\Doc	uments\IDOT_Offices\District_l\Projects\D129	913RGANData\Design\DistStd.dgn	REVISED	- R. BORO 01-01-07	STATE OF ILLINOIS						1362		3200RS&DR-5	соок	85	72
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	- R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION		FRAMES AND LI	DS ADJUS		VITH MILLING		BD600	0-03 (BD-8)	CONTRACT	T NO. 6	2G42
		PLOT DATE = 1/30/2019	DATE - 10-25-94	REVISED	- R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF	1 SHEET	S STA.	TO STA.		ROAD DIST.				

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE. B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE. D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1^{\prime}_{2} (40)
- THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- * UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

1	SUB-BASE GRANULAR MATERIAL	6 FRAME AND LID (SEE NOTES)
2	EXISTING PAVEMENT	CLASS PP-1* CONCRETE
3	36 (900) DIAMETER METAL PLATE	(8) PROPOSED HMA SURFACE COURSE
4	PROPOSED CRUSHED STONE AND HMA SURFACE MIX	
(5)	EXISTING STRUCTURE	9 PROPOSED HMA BINDER COURSE

(5) EXISTING STRUCTURE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

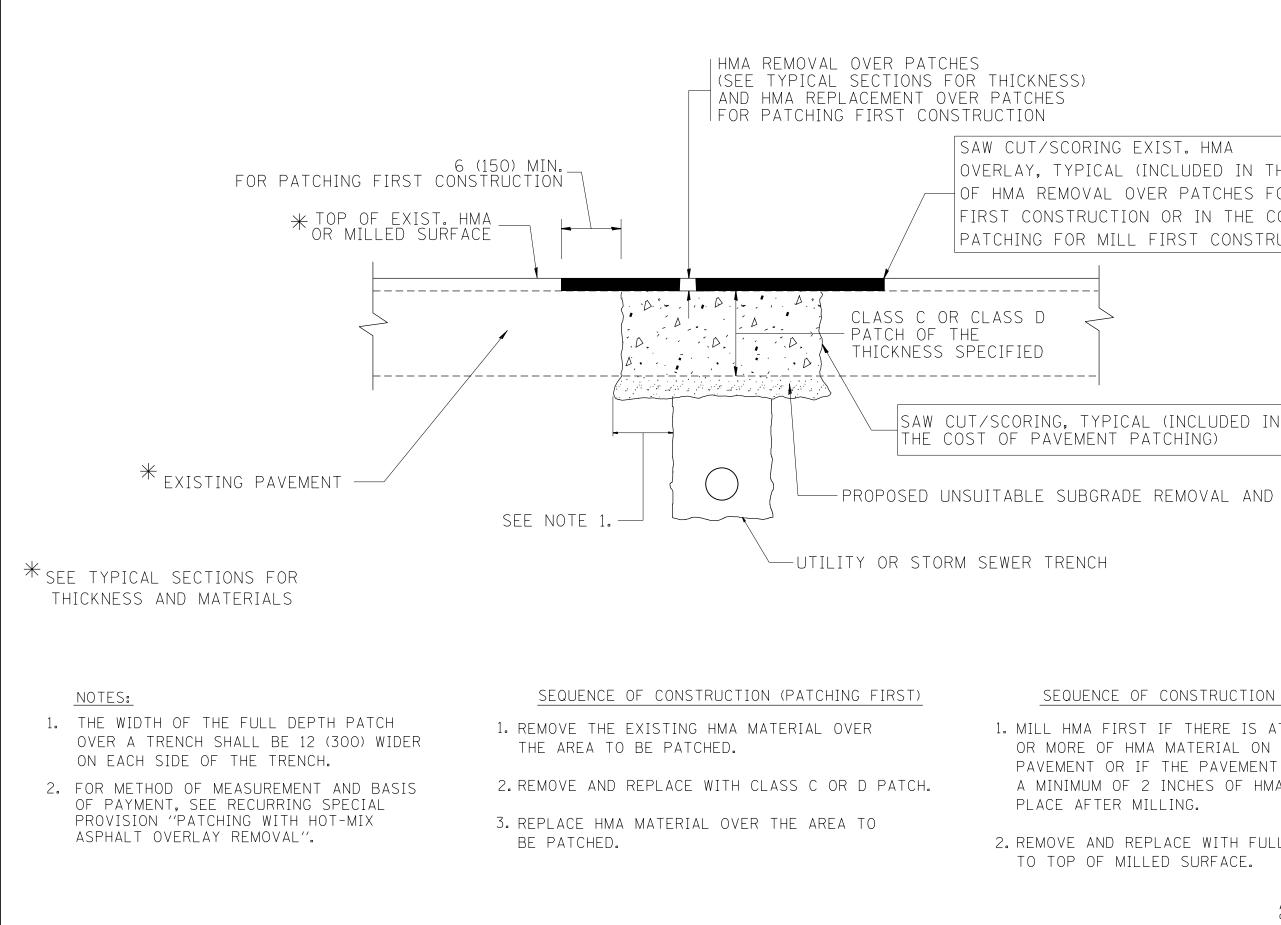
BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

ALL DIMENSIONS ARE IN INCHE	S (MILLIMETERS) UNLESS OTHERWISE SHOWN
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						ALL DIMENSIONS ARE IN INCHE OTHERWISE SHOWN.	ES (MILLIMETERS) UNLESS
FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.U. SECTION	COUNTY TOTAL SHEET
pw:\\IL084EBIDINTEG.111no1s.gov:PWIDOT\Do	cuments\IDOT_Offices\District_l\Projects\D129	918R04MData\Design\DistStd.dgn	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		1362 3200RS&DR-5	СООК 85 73
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 62G42
	PLOT DATE = 1/30/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	

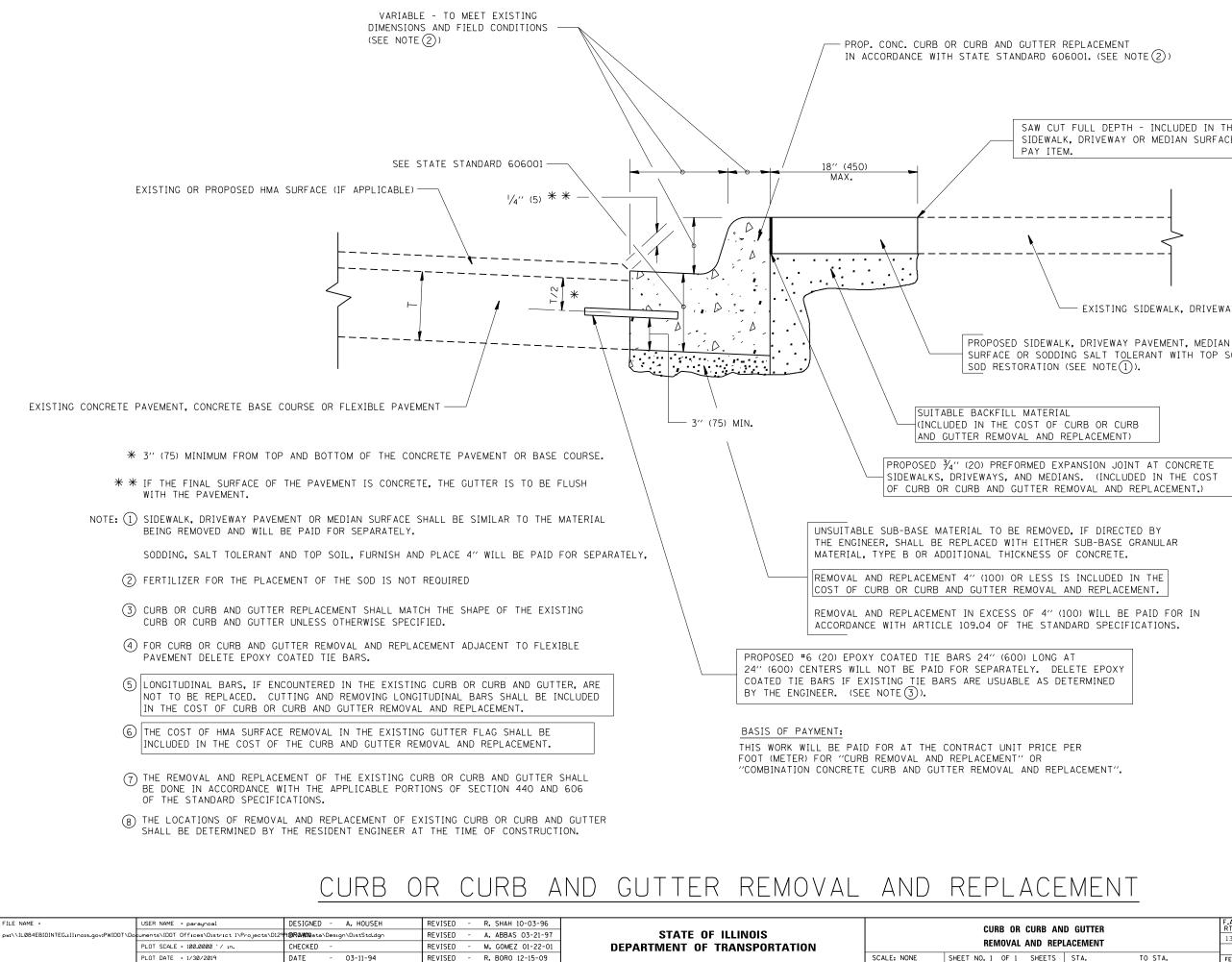
OVERLAY, TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.



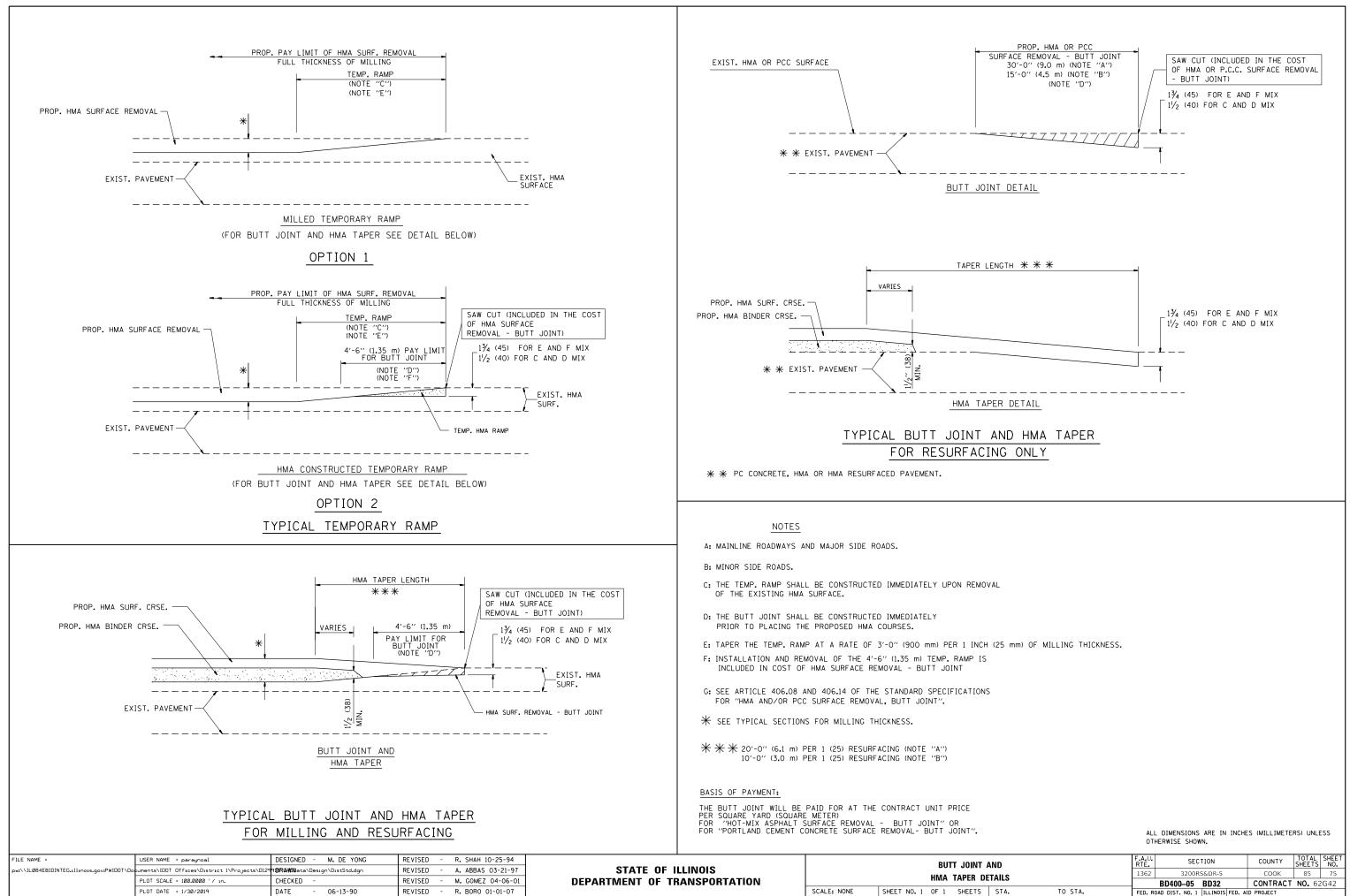
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

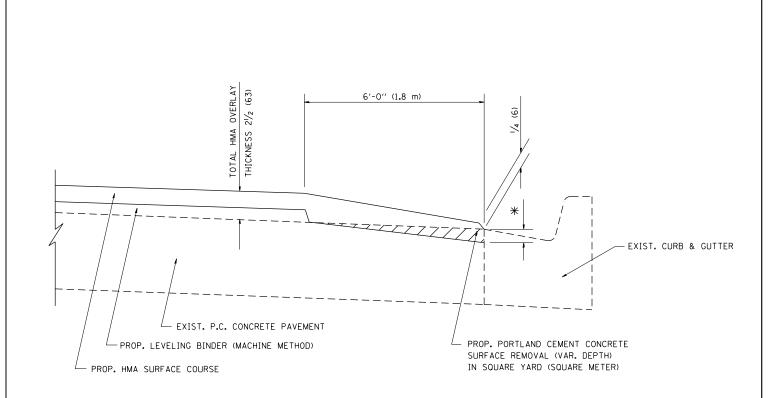
SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100)

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

AND GUTTER		F.A.U. RTE	F.A.U. RTE. SECTION		COUNTY SHEETS		
PLACEMENT		1362	3200RS&DR-5	СООК	85	74	
				BD600-06 (BD-24)	CONTRACT	NO. 62	2G42
	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



AND DETAILS		F.A.U. RTE.	F.A.U. RTE. SECTION		TOTAL SHEETS	SHEET NO.	
		1362	3200RS&DR-5	СООК	85	75	
				BD400–05 BD32	CONTRACT	NO. 62	2G42
	STA.	TO STA.	FED. RC	DAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



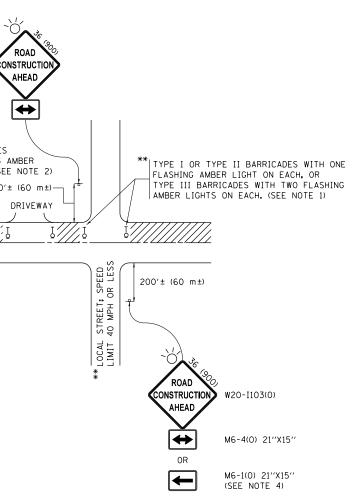
<u>hma taper at</u> EDGE OF P.C.C PAVEMENT

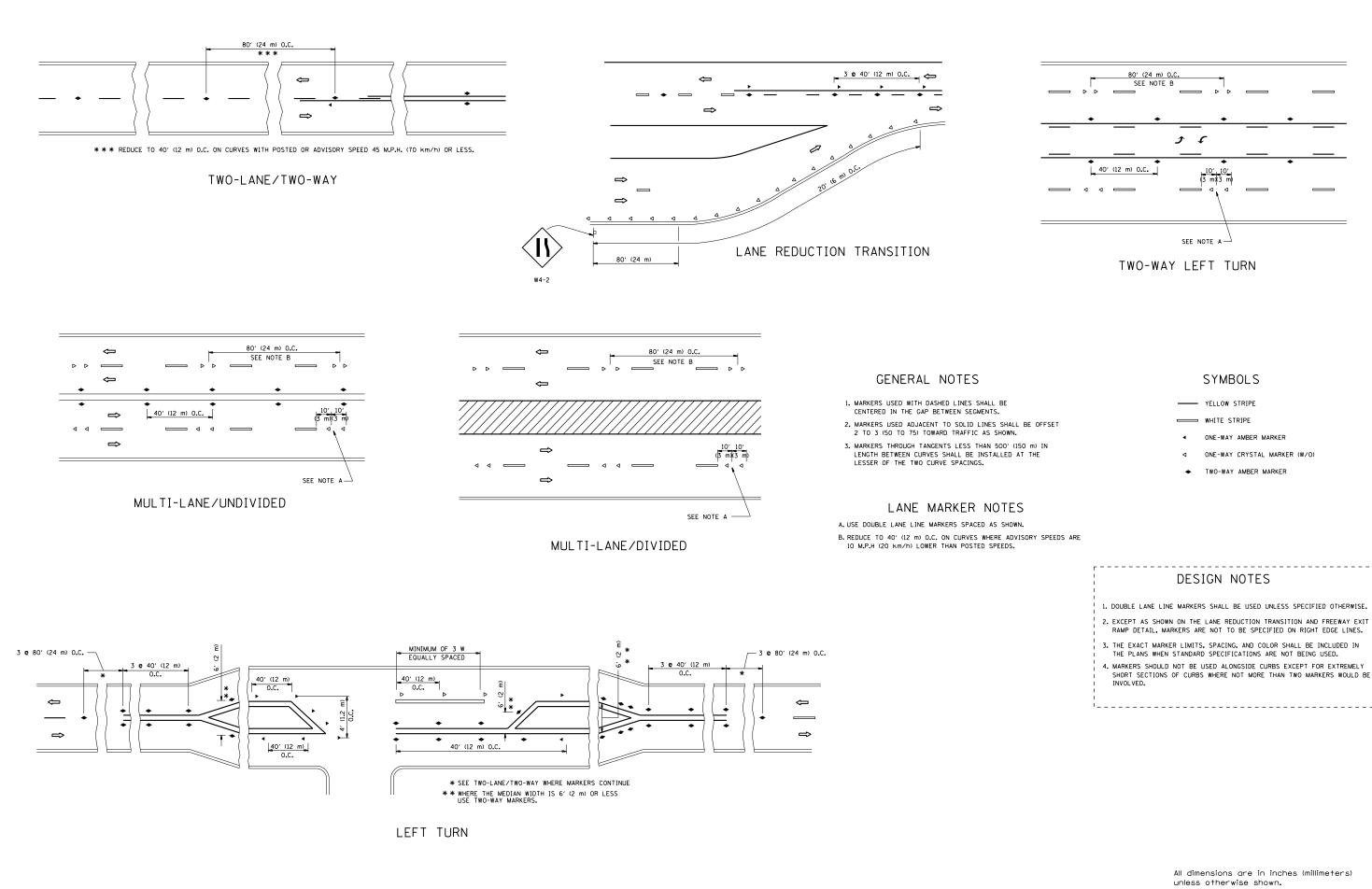
HMA SURFACE		LEVEL ING BINDER	
MIX	THICKNESS	THICKNESS	✤ MILLING AT GUTTER FLAG
C OR D	11/2 (38)	1 (25)	1 ¹ ⁄4 (33)
E	1 ³ ⁄4 (44)	3⁄4 (19)	1 ¹ / ₂ (38)

FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - A. ABBAS 05-05-9			HMA TAPER AT		F.A.U. RTE	SECTION	COUNTY	TOTAL SHEET
pw:\\ILØ84EBIDINTEG.1111no15.gov:PWIDOT\De	cuments\IDOT_Offices\District_l\Projects\D12	9918RAMINata\Design\Di\$tStd.dgn	REVISED - E. GOMEZ 12-21-00	STATE OF ILLINOIS		EDGE OF P.C.C. PAVEMENT		1362	3200RS&DR-5	соок	85 76
	PLOT SCALE = 100.0000 ' / in.	CHECKED - A. ABBAS	REVISED - R. BORO 01-01-07	DEPARTMENT OF TRANSPORTATION				BD40	0–06 (BD33)	CONTRACT	NO. 62G42
Default	PLOT DATE = 1/30/2019	DATE - 09-10-94	REVISED - JP CHANG 07-08-16		SCALE: NONE	SHEET 1 OF 1 SHEETS STA. T	O STA.		ILLINOIS FED. 4	AID PROJECT	

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

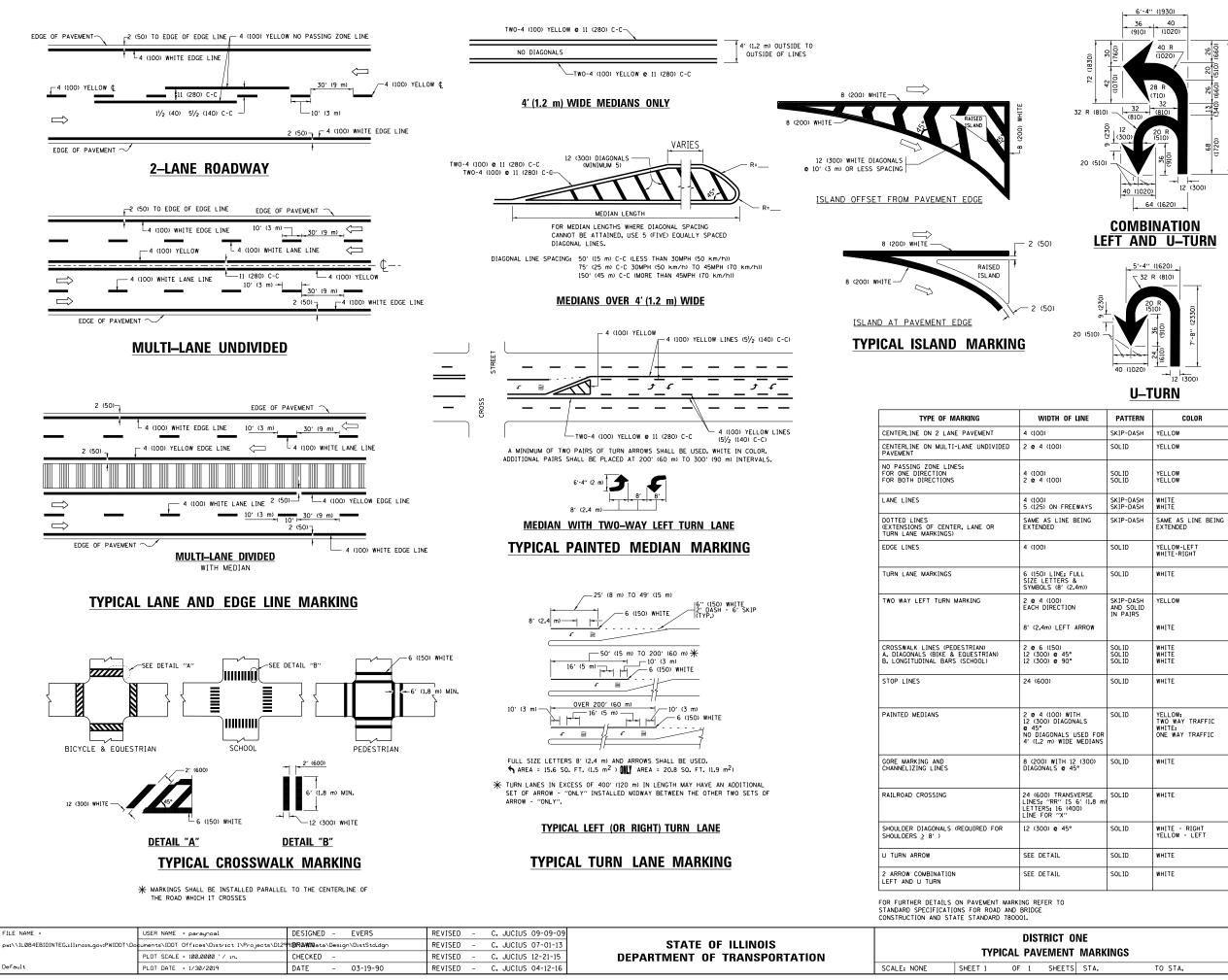
	ROAD ROAD SI 1500 21 0500 10 000 10 000	
	<u>NOTES:</u>	
	 SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200° (60 m) IN ADVANCE OF THE MAIN ROUTE. THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I. TYPE I IO RTYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER: ONE "ROAD CONSTRUCTION AHEAD" SICN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY SOO' (150 m) IN ADVANCE OF THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE MAIN ROUTE. THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE MAIN ROUTE. 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 OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (TIO) IN HEIGHT. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE DOWEK ZONE, A SINGLE HEADED ARROW (MG-4). 	ONAL DVED WHEN L SET-UP. RIVEWAYS THE ROADS, D IN THE
	All dimensions are in inches unless otherwise shown.	
FILE NAME = USER NAME = peragnoal DESIGNED - L.H.A. REVISED - A. HOUSEH 10-15-96 pwt\\L084EBIDINTEG.illinois.gov:PWIDDT\Documents\IDDT Offices\District I\Projects\DI2*90RAMData\Design\DistStd.dgn REVISED - T. RAMMACHER 01-06-00 PLOT SCALE = 100.0000 '/ in. CHECKED - REVISED - A. SCHUETZE 07-01-13 Default PLOT DATE = 1/30/2019 DATE - 06-89 REVISED - A. SCHUETZE 09-15-16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS F.A.U. RTE. SECTION COUNT SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA. Illinois fed. aid project	Shell is No. OK 85 77 RACT NO. 62G42

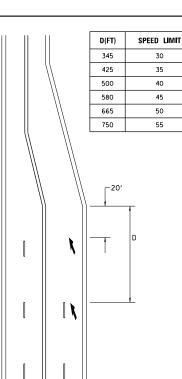




FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED - T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS		F.A.U.	SECTION	COUNTY	TOTAL	SHEET
w:\\IL084EBIDINTEG.1111no1s.gov:PWIDOT\Documents\IDOT_Offices\D1strict_1\Projects\D12		9 13R(AMD) ata\Design\DistStd.dgn	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS	DAIOTO		1362	3200RS&DR-5	соок	85	78
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		TC-11	CONTRACT	NO. 62	G42
	PLOT DATE = 1/30/2019	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.			

4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.





LANE REDUCTION TRANSITION

lane reduction arrows required at speeds of 45 MPH or greater or when specified in plans.

F LINE	PATTERN	COLOR	SPACING /REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
FULL & 2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
DN - ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
•	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERMISE, PLACE AT DESIRED STOPPINO POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
USED FOR MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
12 (300) 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))
ISVERSE S 6′(1.8 m) 400)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
•	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
	SOLID	WHITE	16.3 SF
	SOLID	WHITE	30.4 SF

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

ONE				SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
т	T MARKINGS		1362	3200RS&DR-5	СООК	85	79			
	MARKINGS			TC-13	CONTRACT NO. 62G42					
TS	STA.	TO STA.		ILLINOIS FED. AID PROJECT						

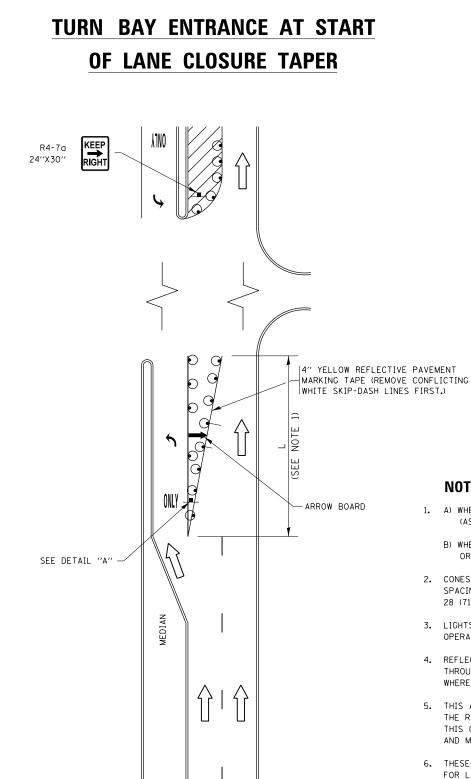
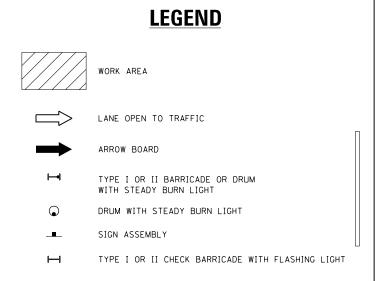
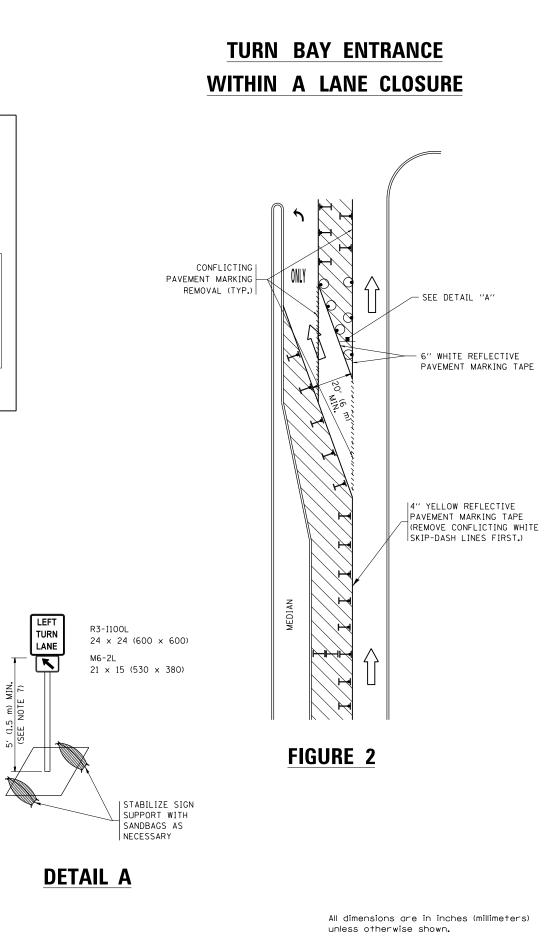


FIGURE 1

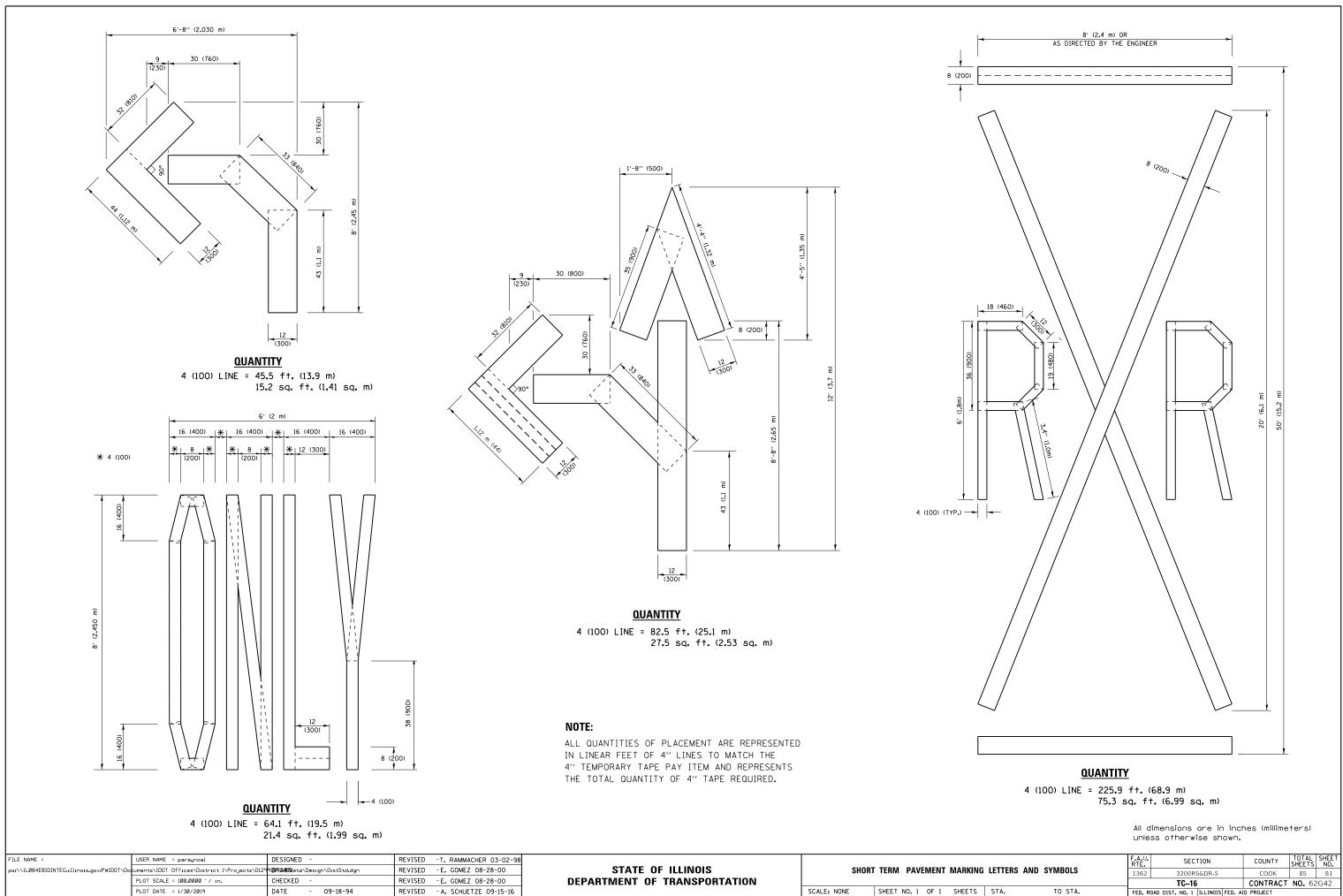


NOTES:

- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 × 15 (530 × 380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

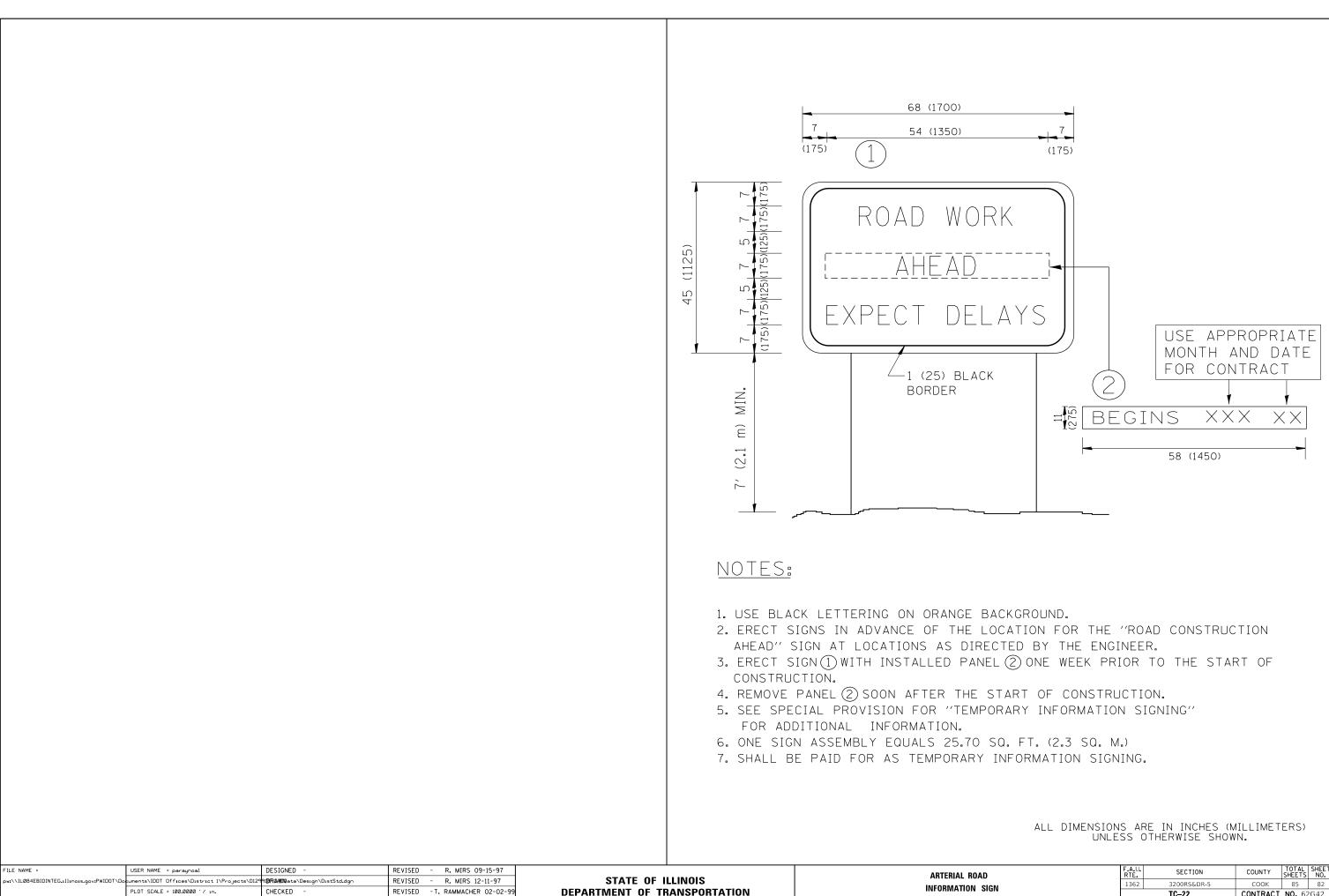


Ī	FILE NAME =	USER NAME = paraynoal		. RAMMACHER 09-08-94			TR	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS		SECTION	COUNTY TOTAL SHEET SHEETS NO.
	<pre>\\L084EBIDINTEG.illinois.gov:PWIDDT\Documents\IDDT Offices\District 1\Projects\D1299@EV4SEQ.a\Design\AjsHEDUSEH 11-07-9</pre>					(TO REMAIN OPEN TO TRAFFIC)		3200RS&DR-5	СООК 85 80		
		PLOT SCALE = 100.0000 '/ in.	REVISED -	A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION	(TO REWAIN OPEN TO TRAFFIC)			TC-14	CONTRACT NO. 62G42
L	Default	PLOT DATE = 2/1/2019	REVISED - T	. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FEE	D. AID PROJECT



SCALE: NONE SHEET NO. 1 OF 1 SHEETS

IG LETTERS AND SYMBOLS			F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
IG LETTERS AND SYMBOLS		1362	3200RS&DR-5	соок	85	81				
				TC-16	CONTRACT	NO. 62	G42			
	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

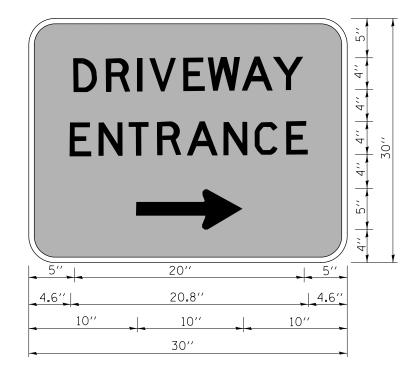


REVISED - C. JUCIUS 01-31-07

PLOT DATE = 1/30/2019

DATE

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N SICN				3200RS&DR-5	СООК	85	82			
14	NSIGN			TC-22 CONTRA		CT NO. 62G42				
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" × 5.0"

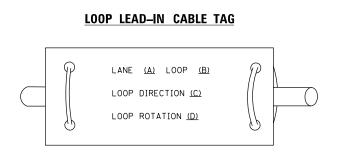
NOTES:

- 1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

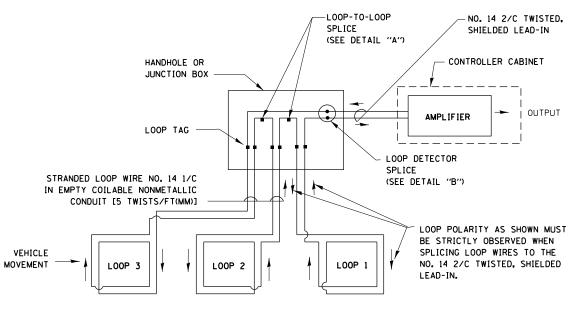
FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED - C. JUCIUS 02-15-07	· · · · ·		DRIVEWAY ENTRANCE SIGNING		F.A.U. RTF.	SECTION	COUNTY	TOTAL SHEET
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					TC-26	CONTRACT	T NO. 62G42
	PLOT DATE = 1/30/2019	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD D	DIST. NO. 1 ILLINOIS FED. A		

LOOP DETECTOR NOTES

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

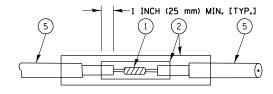


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

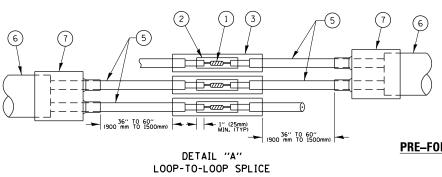


DETECTOR LOOP WIRING SCHEMATIC

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



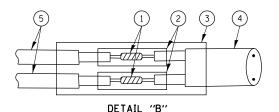
DETAIL "A" LOOP-TO-LOOP SPLICE



LOOP DETECTOR SPLICE

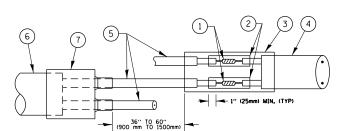
- (1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SUF OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE ST
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -			DISTRICT ONE	F./ RT	A.U.	SECTION	COUNTY	TOTAL SHEET
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS				TS05	CONTRACT	NO. 62G42
Default	PLOT DATE = 1/30/2019	DATE -	REVISED -		SCALE: NONE	SHEET 2 OF 7 SHEETS STA. TO STA	A			ID PROJECT	



LOOP-TO-CONTROLLER SPLICE

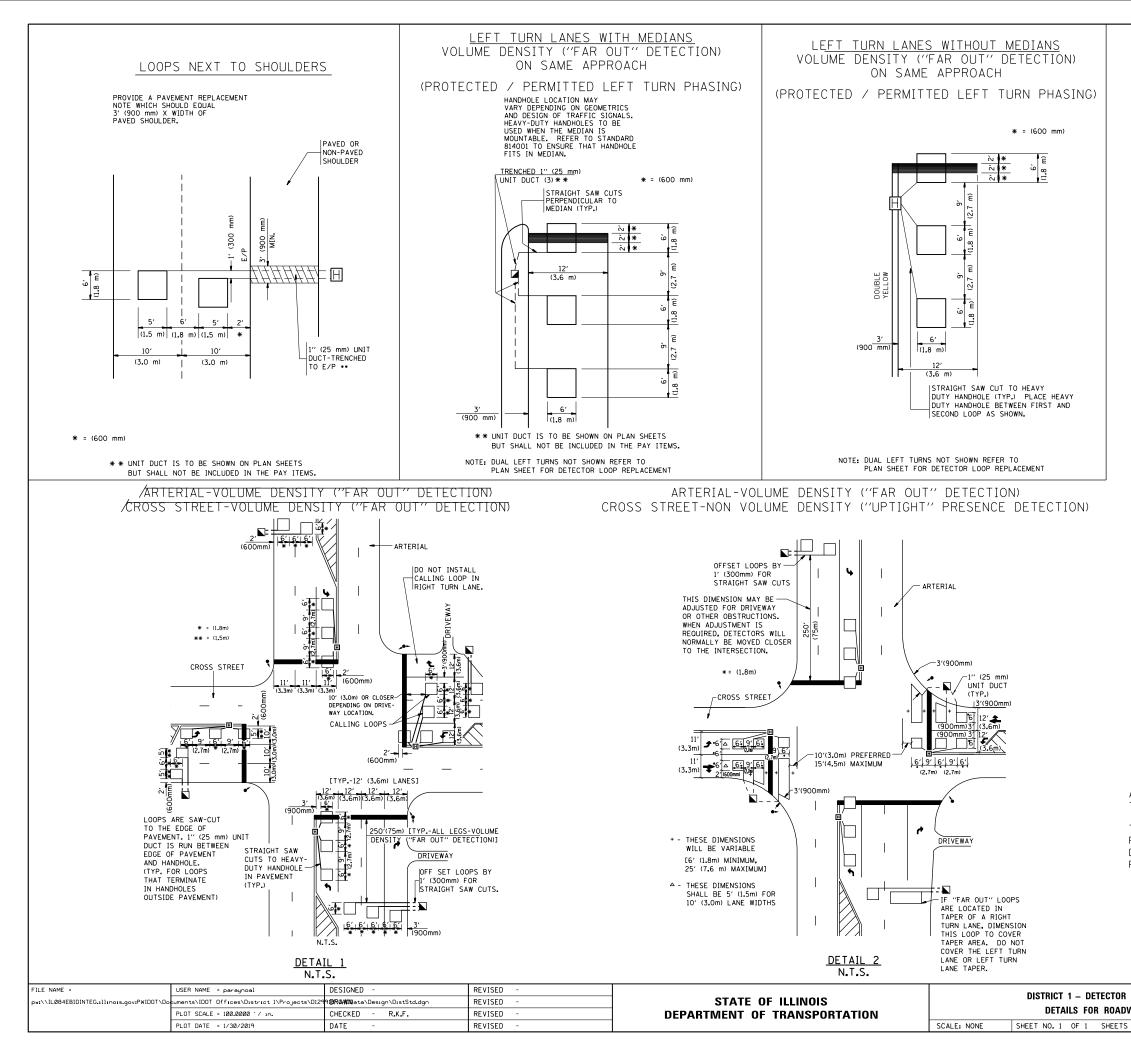
TYPE I LOOP



PRE-FORMED LOOP

DETAIL "B" LOOP-TO-CONTROLLER SPLICE

	(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
STAGGERED.	6 PRE-FORMED LOOP
R GRADE.	O
R GRADE.	T POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL



NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF <u>ALL</u> DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, <u>MORE</u> THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON \underline{ALL} SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

L	OOP INSTA	LLATION	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
w	AV DEGLIDE	ACING	1362	3200RS&DR-5	СООК	85	85				
WAY RESURFACING				TS-07 CONTRACT NO. 62G42							
	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							