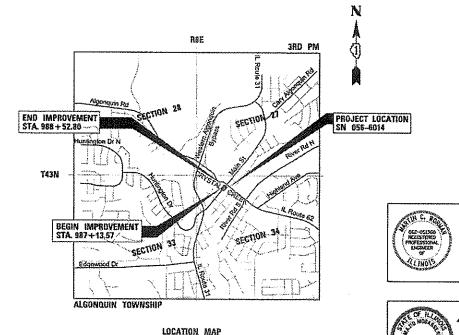
FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR STATE STANDARDS, SEE SHEET NO. 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

MUN 4560 (MAIN STREET) OVER CRYSTAL CREEK BRIDGE REPLACEMENT SECTION 16-00090-01-BR PROJECT 7KH9(868) **VILLAGE OF ALGONOUIN** MCHENRY COUNTY

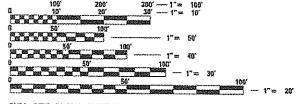
C-91-086-18



SCALE - 1"=2,000" GROSS LENGTH = 139 FT. = 0.03 MILE NET LENGTH = 139 FT. = 0.03 MILE

LOCATION OF SECTION INDICATED THUS: - -

TRAFFIC DATA: 2008 ADT = 7.300 VEHICLES2040 ADT = 10,000 VEHICLESPOSTED SPEED LIMIT = 25 MPH FUNCTIONAL CLASSIFICATION = MAJOR COLLECTOR

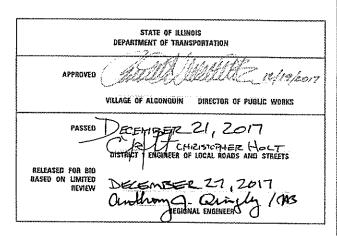


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811



MARTIN C. WORMAN



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 61E49

CHARLES engineer.

INDEX OF SHEETS

1 COVER SHEET
2 INDEX OF SHEETS, HIGHWAY STANDARDS \$ GENERAL NOTES
3 TO 4 SUMMARY OF QUANTITIES
5 TYPICAL SECTIONS
6 ALIGNMENT, TIES & BENCHMARKS
7 EXISTING CONDITIONS AND REMOVAL PLANS
8 ROADWAY PLAN
9 DETOUR PLAN
10 MAINTENANCE OF TRAFFIC PLAN
11 TO 12 EROSION CONTROL AND LANDSCAPING PLAN
13 DRAINAGE PLAN AND PROFILE
14 UTILITY PLAN AND PROFILE
15 GRADING PLAN

HIGHWAY STANDARDS

GRADING SCHEDULE

BRIDGE PLANS

PROJECT DETAILS

CROSS SECTIONS

LOCAL AGENCY DETAILS

DISTRICT 1 DETAILS

AESTHETIC LIGHTING PLANS

17 TO 22

23 TO 42

44 TO 49

50 TO 54

57 TO 58

STD 000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
STD 442201-03	CLASS C AND D PATCHES
STD 515001-03	NAME PLATE FOR BRIDGES
STD 701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
STD 701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
STD 701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
STD 701502-08	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
STD 701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
STD 701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
STD 701901-07	TRAFFIC CONTROL DEVICES
STD 704001-08	TEMPORARY CONCRETE BARRIER
STD 782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2018; THE LATEST EDITIONS OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD) AND "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS"; THE "DETAILS" IN THE PLANS; AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST IDOT STANDARD.
- ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS.

UTILITIES

- 4. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER SERVICE LINES AND OTHER UTILITY LINES ARE APPROXIMATE, AND THE VILLAGE AND ENGINEER DO NOT GUARANTEE THEIR ACCURACY.
- 5. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 8-1-1 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION FACILITIES (43 HOURS NOTIFICATIONS IS REQUIRED). THE CONTRACTOR SHALL CONTACT IDOT'S BUREAU OF MATERIALS (PHONE 847-705-4337) AT LEAST 24 HOURS BEFORE PLACING HOT MIX ASPHALT OR PORTLAND CEMENT CONCRETE.

MAINTENANACE OF TRAFFIC

 THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

MISCELLANEOUS

- DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- ALL SAWCUTTING SHALL BE PERFORMED PRIOR TO BEGINNING REMOVAL.
- LOCATIONS FOR PAVEMENT PATCHING WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 10. WHEN REMOVING PAVEMENT, CURB AND GUTTER, SHOULDER, AND/OR OTHER STRUCTURES, THE USE OF ANY TYPE OF CONCRETE BREAKERS, WHICH MIGHT DAMAGE UNDERGROUND PUBLIC OR PRIVATE UTILITIES, WILL NOT BE PERMITTED. UNDER NO CIRCUMSTANCES WILL THE USE OF A FROST BALL BE PERMITTED. THE CONTRACTOR IS PROHIBITED FROM BREAKING UP CONCRETE BY DROPPING IT ON THE PAVEMENT OR IN ANY OTHER MANNER, WHICH

SCALE:

- IN THE OPINION OF THE ENGINEER MAY DAMAGE EXISTING OR PROPOSED PAVEMENTS OR OTHER ROADWAY APPURTENANCES.
- NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN INSTALLED.
- 12. THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL TO AVOID INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.
- 13. THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS. IF EXISTING SIGNS ARE DAMAGED DURING THE REMOVAL AND REPLACEMENT PROCESS, THE SIGN SHALL BE REPLACED.
- 14. DURING THE CONSTRUCTION OPERATIONS WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES SO THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SHALL BE FREE FROM ALL DIRT AND DEBRIS CAUSED BY THE CONSTRUCTION.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- 16. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE STANDARD SPECIFICATIONS AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- 17. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
- 18. TRENCH BACKFILL SHALL BE USED TO BACKFILL ALL TRENCHES WHERE THE EDGE OF THE TRENCH IS WITHIN 5 FEET OF THE PROPOSED EDGE OF PAVEMENT, CURB, CURB AND GUTTER OR SIDEWALK (BIKE PATH).

1.7					$\overline{}$
Į	Default	PLO T DATE = 1/10/2018	DATE	REVISED -	
		PLOT SCALE = 20'	CHECKED -	REV SED -	
	N:\ALGONQUI N\070273\070273.00095B\CADD_	Sheets\D161E49-sht-not-01.dgn	DRAWN -	REVISED -	
Ī	FILE NAME	USER NAME = pnajarro	DESIGNED -	REVISED -	

MAIN ST BRIDGE OVER CRYSTAL CREEK	MUN RTE.	SECTION
IDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES	4560	16-00090-01-BF

CODE NUMBER	ITEM	UNIT	QUANTITY 0010	QUANTITY NON- PARTICIPATING 0043	TOTAL QUANTITY		CODE NUMBER	ITEM	UNIT	QUANTITY 0010	QUANTITY NON- PARTICIPATING	TOTAL QUANTITY
<u> 20100110</u> Т	IREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	16		16	$\exists E$	50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1
△ 20100210 T	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18		18	<u> </u>	50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1
20101000 T	TEMPORARY FENCE	FOOT	560		560		50201123	COFFERDAM (TYPE 2) (LOCATION - 3)	EACH	1		1
21101615 T	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	107		107	7 F	50201124	COFFERDAM (TYPE 2) (LOCATION - 4)	EACH	1		1
20200100 E	EARTH EXCAVATION	CU YD	185		185	7 F	50201125	COFFERDAM (TYPE 2) (LOCATION - 5)	EACH	1		1
20201200 R	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CUYD	100		100] [50201126 COFFERDAM (TYPE 2) (LOCATION - 6) 50300225 CONCRETE STRUCTURES			1		1
20300100 C	CHANNEL EXCAVATION	CU YD	570		570	 				302.1		302.1
	POROUS GRANULAR EMBANKMENT	CU YD	415		415	 	50300255	CONCRETE SUPERSTRUCTURE	CUYD	40.6		40.6
	TRENCH BACKFILL	CU YD	150	150	300	-		BRIDGE DECK GROOVING	SQ YD	380		380
	SEEDING, CLASS 4A	ACRE	0.1		0.1	-		CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CUYD	73.9		73.9
	ROSION CONTROL BLANKET	SQ YD	50		50	-		PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	3,490		3,490
	SODDING, SALT TOLERANT	SQYD	81		81	- -		REINFORCEMENT BARS	POUND	8,170		8,170
	TEMPORARY EROSION CONTROL SEEDING	POUND	50		50			REINFORCEMENT BARS, EPOXY COATED	POUND	132,680		132,680
						╡╞						
	PERIMETER EROSION BARRIER	FOOT	157		157	┧╷┞		BAR SPLICERS	EACH	430		430
	NLET FILTERS	EACH	4		4	出生	***	PEDESTRIAN RAILING	FOOT	72		72
	EMPORARY EROSION CONTROL BLANKET	SQ YD	125		125	<u> </u>		NAME PLATES	EACH	1		1
	STONE RIPRAP, CLASS A5	SQ YD	667		667	<u> </u>		DRILLED SHAFT IN SOIL	CUYD	217.6		217.6
	ILTER FABRIC	SQ YD	667		667	1 L		TEMPORARY SHEET PILING	SQ FT	1,675		1,675
30300112 A	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	45		45	1	550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	38		38
35101800 A	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	60		60	1	550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	102		102
35102200 A	GGREGATE BASE COURSE, TYPE B 10"	SQ YD	170		170	4	56100700	WATER MAIN 8"	FOOT	100		100
40600275 B	SITUMINOUS MATERIALS (PRIME COAT)	POUND	160		160	4 -	56100900	WATER MAIN 12"	FOOT		110	110
40603080 H	OT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	25		25	14	56101000	WATER MAIN 16"	FOOT		200	200
40603335 H	OT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	19		19		56105200	WATER VALVES 12"	EACH		1	1
42001300 PI	ROTECTIVE COAT	SQ YD	104		104		56105300	WATER VALVES 16"	EACH		2	2
42000080 PA	AVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	49		49	1 	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	240		240
42300400 P	ORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	26		26		60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1		1
42400200 P	ORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	444		444	1	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1		1
44000100 P	AVEMENT REMOVAL	SQ YD	340		340	<u> </u>	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	,	1
44201765 CI	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	20		20	<u> </u>	60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1		1
44201769 CI	BLASS D PATCHES, TYPE III, 10 INCH	SQ YD	40		40		60249010	VALVE VAULTS, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH		2	2
44000200 Di	RIVEWAY PAVEMENT REMOVAL	SQ YD	223		223	<u> </u>	60500040	REMOVING MANHOLES	EACH	1		1
44000500 C	OMBINATION CURB AND GUTTER REMOVAL	FOOT	225		225		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	225		225
44000600 SI	IDEWALK REMOVAL	SQ FT	700		700	△ 66900200 NON-SPECIAL WASTE DISPOSAL △ 66900450 SPECIAL WASTE PLANS AND REPORTS		EACH	7		7	
50100100 Ri	EMOVAL OF EXISTING STRUCTURES	EACH	1		1			CU YD	200		200	
50200100 S	TRUCTURE EXCAVATION	CU YD	335		335			LSUM	1		1	
	OFFERDAM EXCAVATION	CU YD	205		205			EACH	10		10	
		tw	200		200			TY ITEMS		1		
FILE NAME = N:\ALGONQUIN\070273\070273.0	USER NAME = mwormen	-			STATE OF	ILLII		MAIN ST BRIDGE OVER CRYSTAL CREEK	MUN RTE. 4560		01-BR MCHENR	TOTAL SHEET NO. Y 58 3 ACT NO. 61E49

CODE NUMBER	ITEM	UNIT	QUANTITY 0010	QUANTITY NON- PARTICIPATING 0043	TOTAL QUANTITY
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	,	8
67100100	MOBILIZATION	LSUM	1		1
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	649		649
70400100	TEMPORARY CONCRETE BARRIER	FOOT	160		160
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	160		160
70600235	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	2		2
70600320	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 2	EACH	2		2
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36		36
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	437		437
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	94		94
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	80		80
78008310	POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	FOOT	200		200
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	16		16
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1		1
80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1		1
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	130		130
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	70		70
81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1" DIA.	FOOT	350		350
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	560		560
81400730	HANDHOLE, COMPOSITE CONCRETE	EACH	2		2
81702100	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	1,300		1,300
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	3,000		3,000
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	390		390
82500335	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 100AMP	EACH	1		1
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	6		6
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1		1
A2005824	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 3" CALIPER, BALLED AND BURLAPPED	EACH	1		1
A2006524	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 3" CALIPER, BALLED AND BURLAPPED	EACH	2		2
X0322400	PILE EXTRACTION	EACH	6		6
X0323444	DECORATIVE STEEL RAILING	FOOT	166	***************************************	166
X0326806	WASHOUT BASIN	LSUM	1		1
X0327750	FOUNDATION REMOVAL	CU YD	50		50
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQFT	145		145
X0426200	DEWATERING	LSUM	1		1
X5021510	COFFERDAMS (SPECIAL)	EACH	4		4
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	388		388
X5610004	DUCTILE IRON WATER MAIN FITTINGS	POUND	1,000	3250	4,250

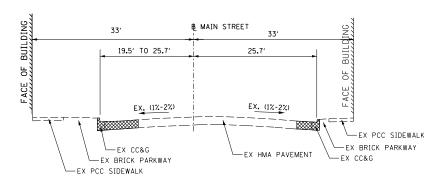
	CODE NUMBER	ITEM	UNIT	QUANTITY 001D	QUANTITY NON- PARTICIPATING	TOTAL QUANTITY
Δ	X5610708	WATER MAIN REMOVAL, 8"	FOOT	218		218
	X5610748	WATER MAIN LINE STOP 8"	FOOT	2		2
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		1
	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	300		300
	X6026055	SANITARY MANHOLE, SPECIAL	EACH	2		2
4	X6026622	VALVE VAULTS TO BE REMOVED	EACH	3		3
	XX007297	MASONRY COLUMN, LARGE	EACH	4		4
	XX007298	MASONRY COLUMN, SMALL	EACH	3		3
Δ	XX007329	RAISED URN SUPPLY	EACH	4		4
7	XX008033	DUPLEX WEATHERPROOF GFI RECEPTACLE AND COVER PLATE	EACH	4		4
	XX008034	SEATWALL 20" HT.	FOOT	24		24
damanda	XX008202	PERGOLA	LSUM	1		1
doumentones	Z0013798	CONSTRUCTION LAYOUT	LSUM	1		1
	Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	5		5
7	Z0056800	SANITARY SEWER 6"	FOOT	105		105
	Z0057100	SANITARY SEWER 12"	FOOT	24		24
	Z0067900	STEEL CASINGS 24"	FOOT	2-7	65	65
	Z0076600	TRAINEES	HOUR	500		500
-						
-	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500		500
	XX009217	COLUMN LIGHTING UNIT, COMPLETE IN PLACE	EACH	4		4
7	XX009218	CANOPY LIGHTING UNIT, COMPLETE IN PLACE	EACH	4		4
4	XX009219	ARCHITECTURAL PEDESTAL	EACH	2		2
1	XX009220	DECORATIVE ILLUMINATED ARCH	EACH	1		1
			ı		1	

△ SPECIALTY ITEMS
0042

FILE NAME =	USER NAME = mworman	DESIGNED -	REVISED -
N:\ALGONQUIN\070273\070273.00095B\CADD.	Sheets\D161E49-sht-soq-Ø1.dgn	DRAWN -	REVISED -
	PLOT SCALE = 20'	CHECKED -	REVISED -
Default	PLOT DATE = 1/17/2018	DATE -	REVISED -

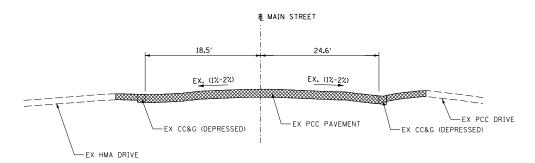
STATE OF ILLINOIS							
DEPARTMENT	OF	TRANSPORTATION					

MAIN ST BRIDGE OVER CRYSTAL CREEK					MUN SECTION COUN			TOTAL SHE SHEETS NO	
SUMMARY OF QUANTITIES			IFC	4560	16-00090-01-BR	MCHENRY	58	4	
		SUMMAN	UI QUANTII	ILO			CONTRAC	T NO. 6	51E49
CALE:	SHEET	OF	SHEETS STA.	TO STA.	ILLINOIS FED. AID PROJECT				



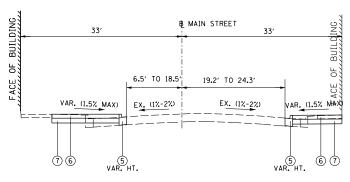
EXISTING CROSS SECTION

STA 988+11.00 TO STA 988+71.61, MAIN STREET



EXISTING CROSS SECTION

STA. 987+13.57 TO STA. 988+11.00, MAIN STREET

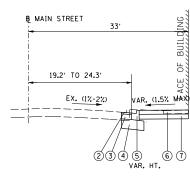


PROPOSED CROSS SECTION

STA. 988+29.89 TO STA. 988+71.61, MAIN STREET

B MAIN STREET

28.67



PROPOSED CROSS SECTION

STA. 988+39.62 TO STA. 988+61.02, MAIN STREET

<u>LEGEND:</u>

1) BRIDGE DECK OR APPROACH PAVEMENT (SEE STRUCTURAL PLANS)

COUNTY

MCHENRY 58 5 CONTRACT NO. 61E49

- 2 HOT MIX SURFACE COURSE, MIX D, N50 2"
- 3 HOT MIX BINDER COURSE IL 19.0, N50 6 1/4"
- 4 AGGREGATE SUBGRADE IMPROVEMENT 12"
- 5 COMBINATION CONCRETE CURB AND GUTTER, TY B-6.12
- 6 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- 7 AGGREGATE BASE COURSE, TYPE B 6 INCH



PROPOSED CROSS SECTION

STA. 987+12.89 TO STA. 988+29.89, MAIN STREET

SCALE:

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ NDES
ROADWAY HOT-MIX ASPHALT PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 2" HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19.0), N50; 6 1/4"	4% @ 50 GYR. 4% @ 50 GYR.
DRIVEWAY HOT-MIX ASPHALT PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 2" HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL 19.0), N50; 2 1/2"	4% @ 50 GYR. 4% @ 50 GYR.

HMA TABLE NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT MATERIAL IS 112 LB/SO YD/IN.

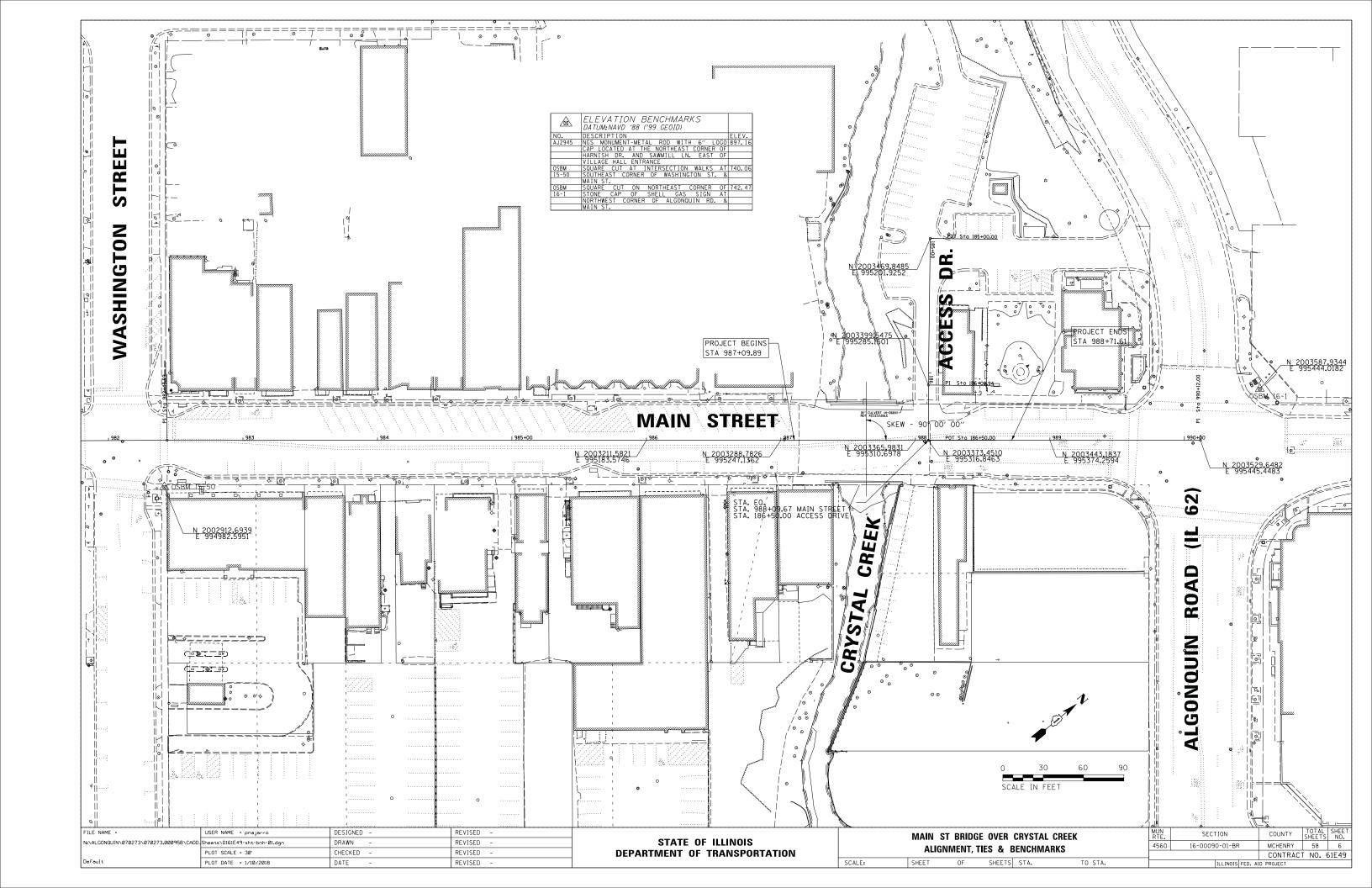
THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

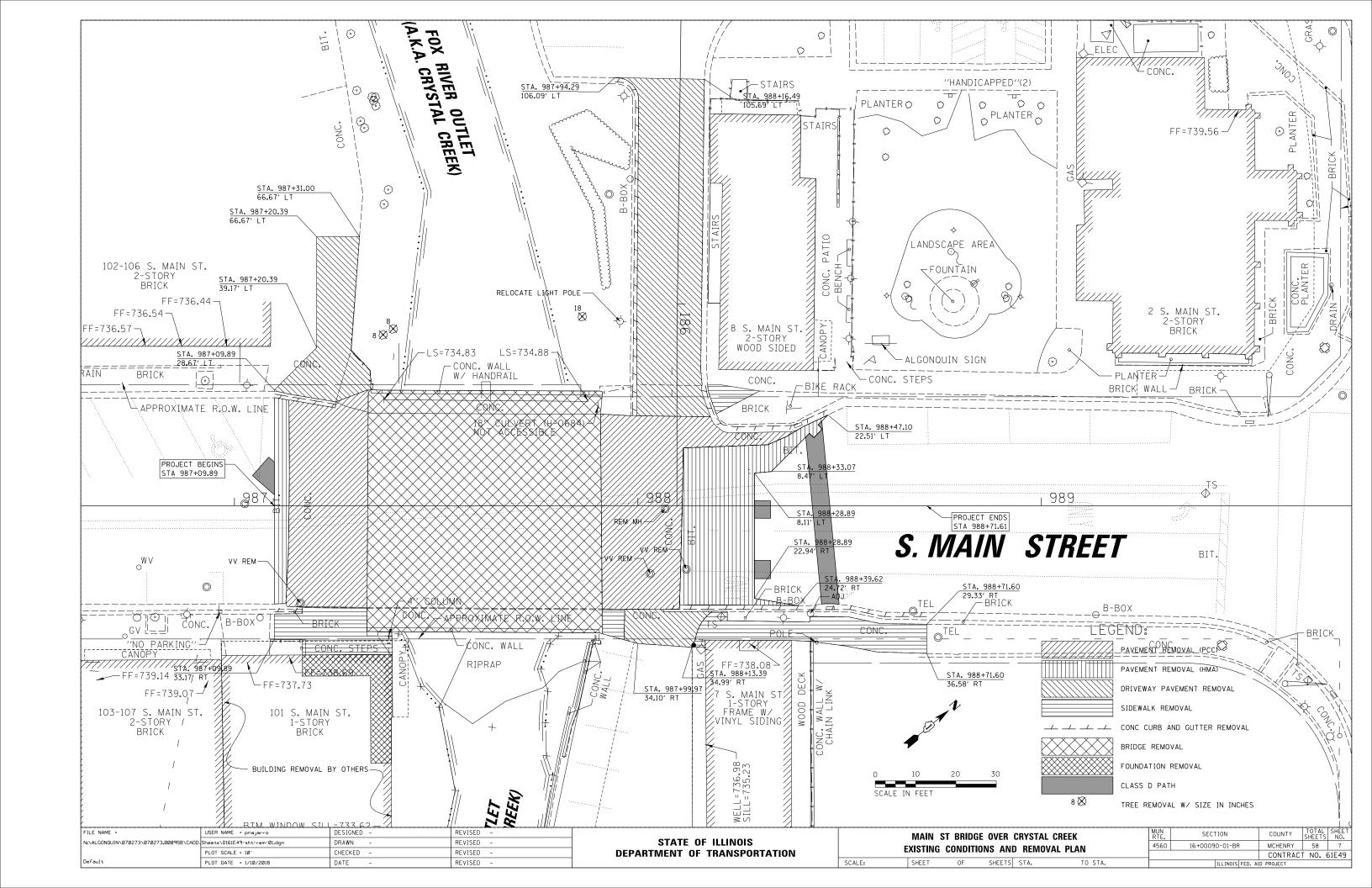
FOR RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

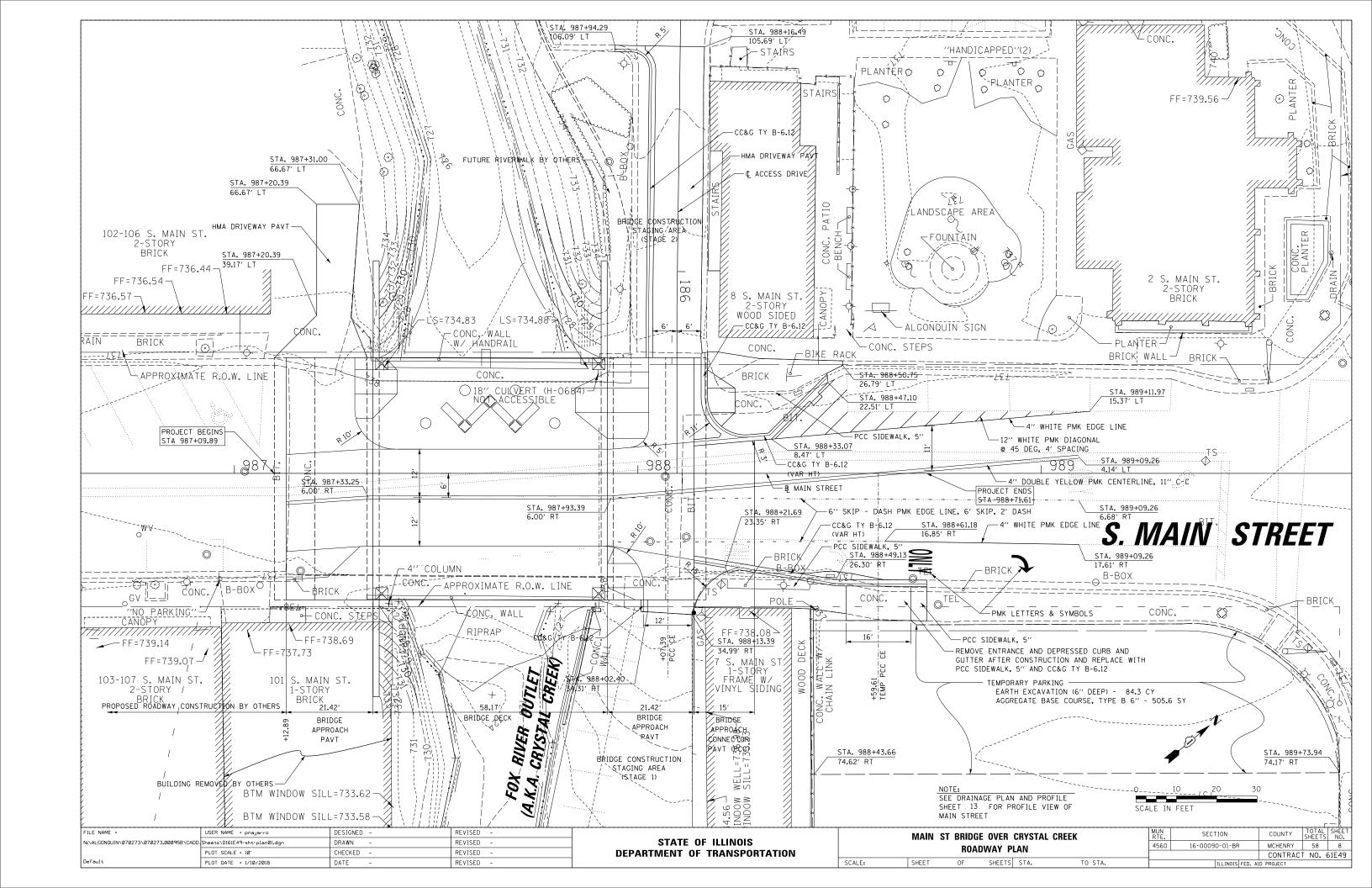
FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -	
N:\ALGONQUIN\070273\070273.00095B\CADD.	Sheets\D161E49-sht-typ-01.dgn	DRAWN -	REVISED -	
	PLOT SCALE = 10'	CHECKED -	REVISED -	
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -	

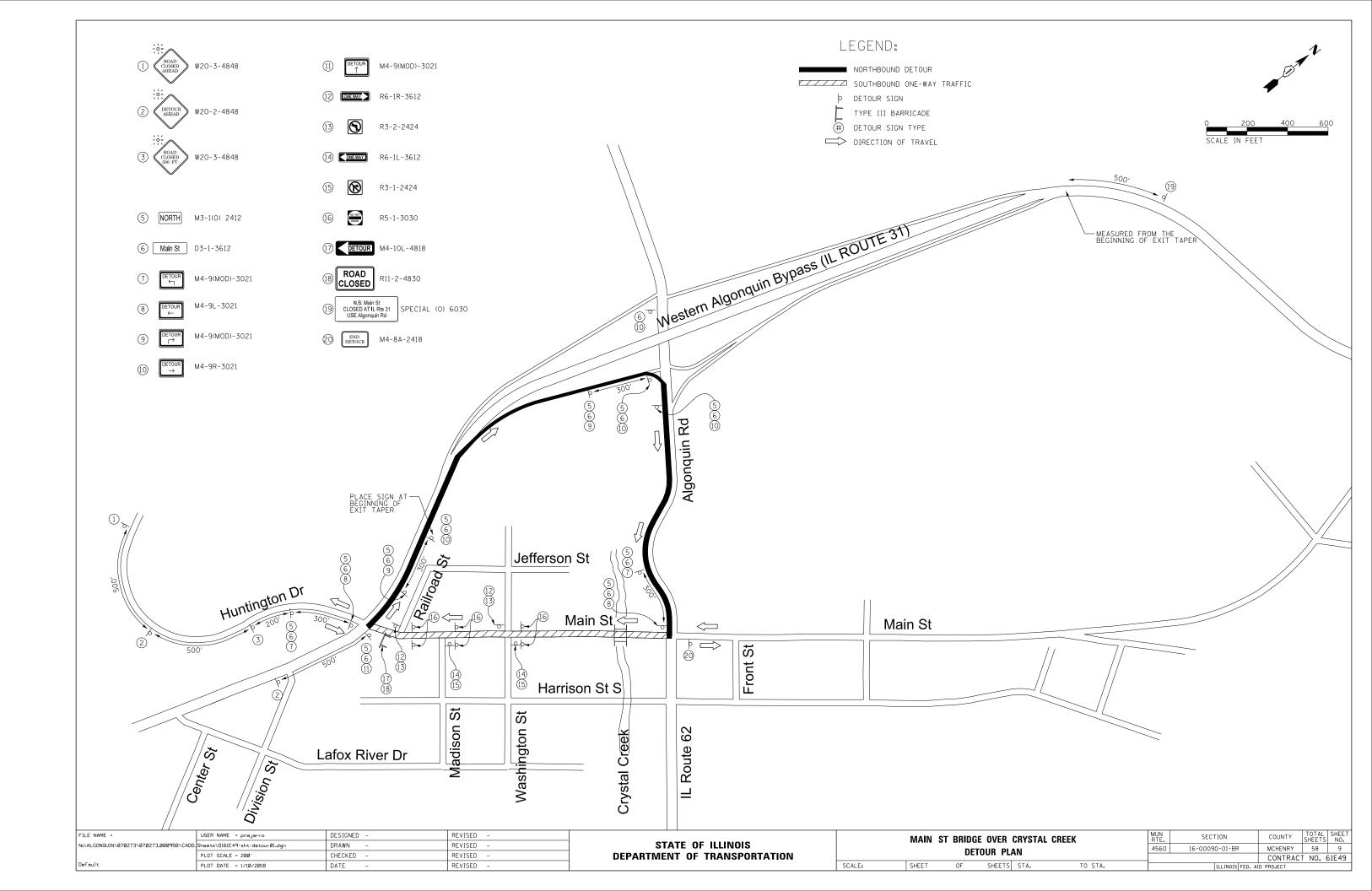
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

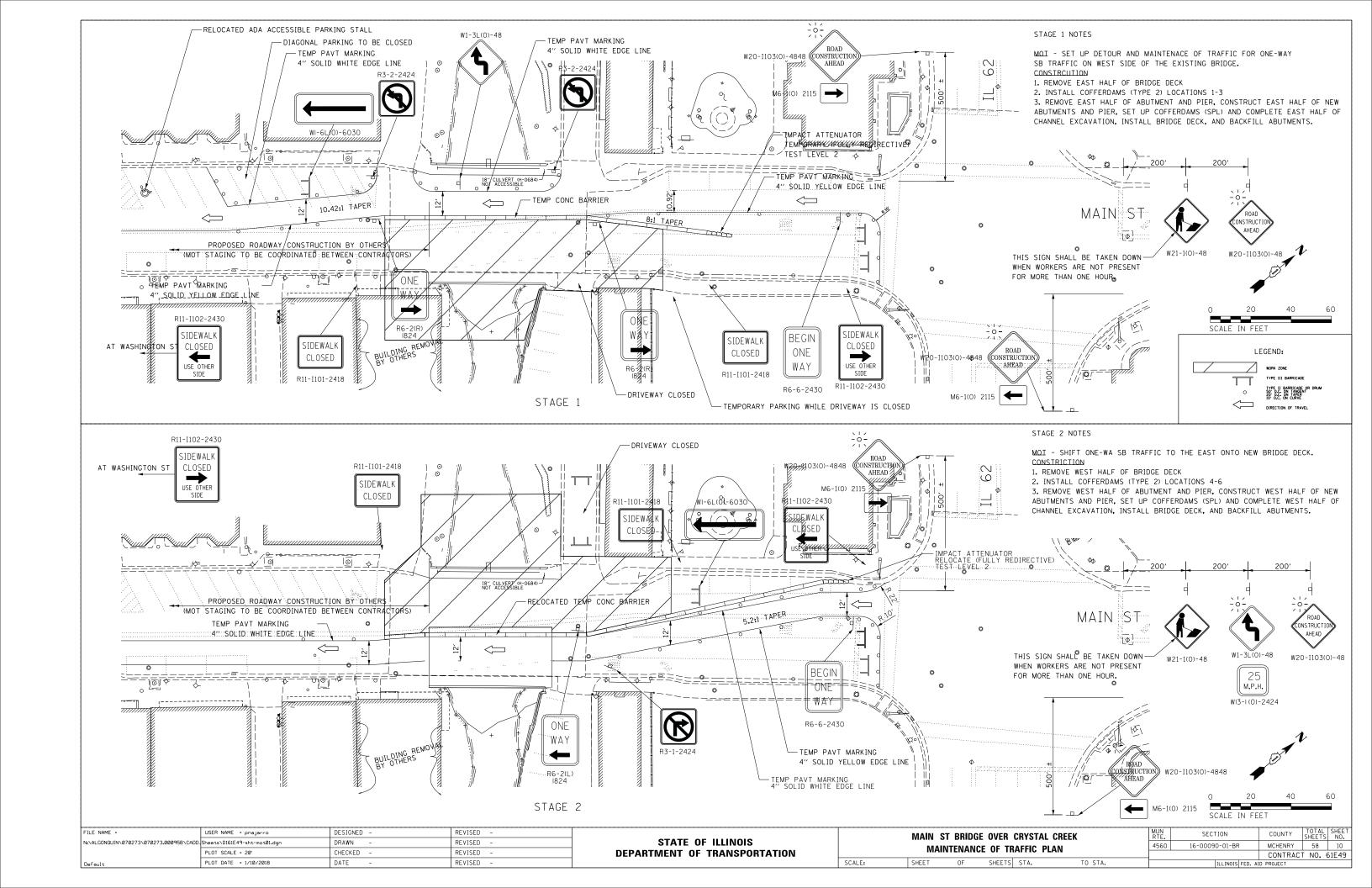
MAIN S	ST BRIDO	GE OVER	CRYSTAL	. CREEK	MUN RTE.	SECTION
	TVDI	CAL SECT	ONG		4560	16-00090-01-BR
		UAL SLUT	IUIVO			
CHEET	0.5	CHEETC	CTA	TO CTA		

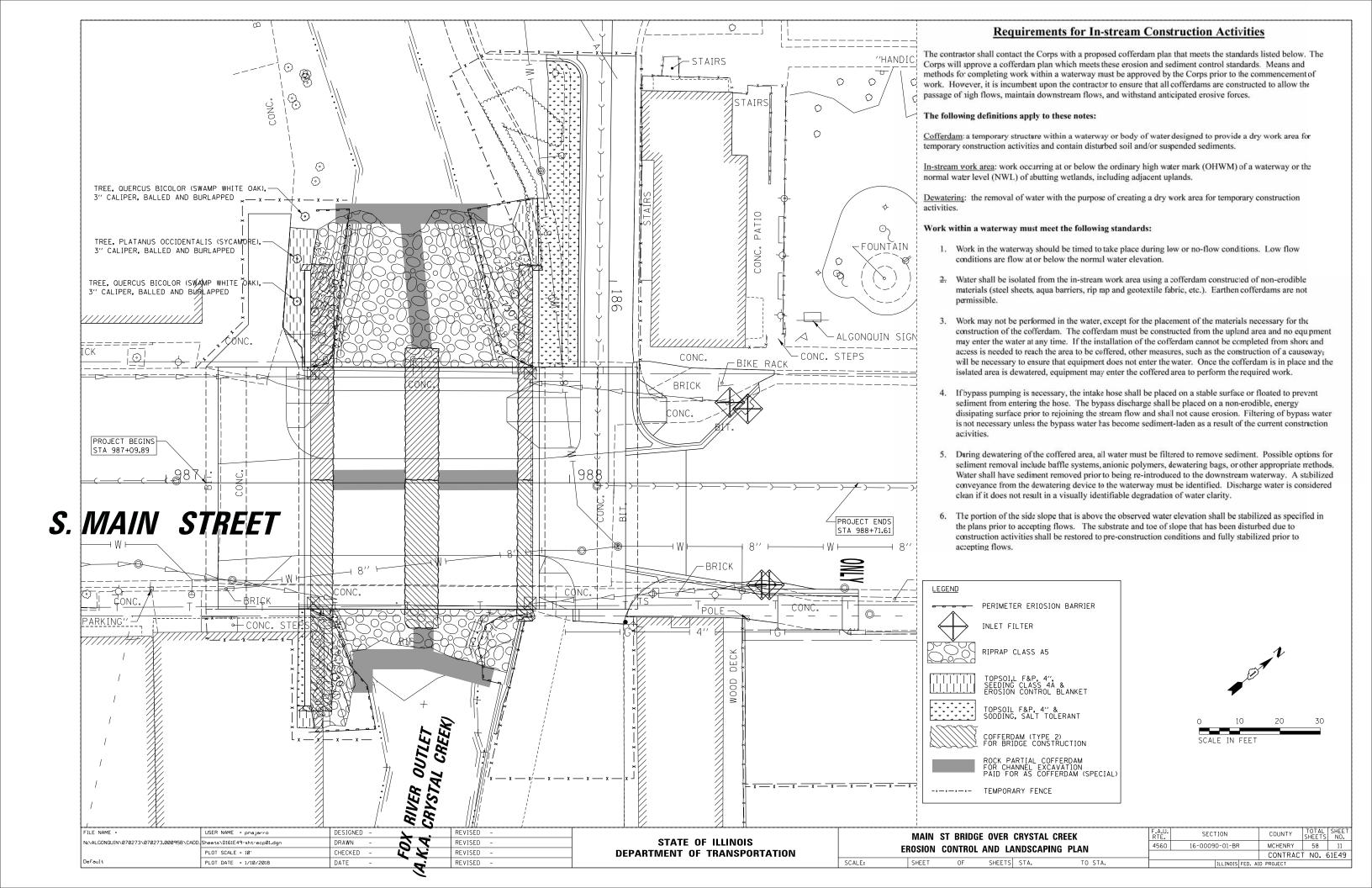


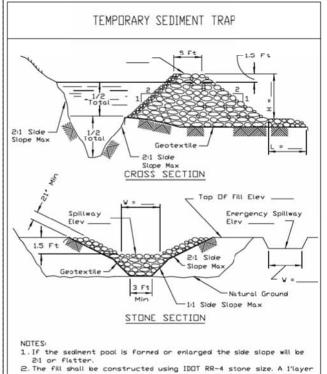


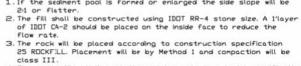


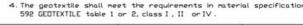




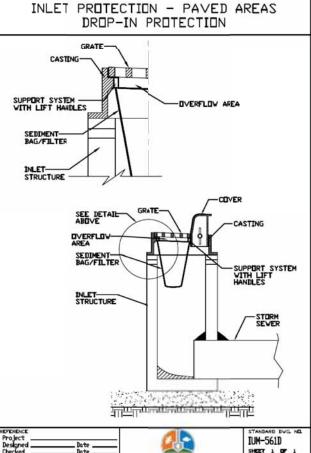


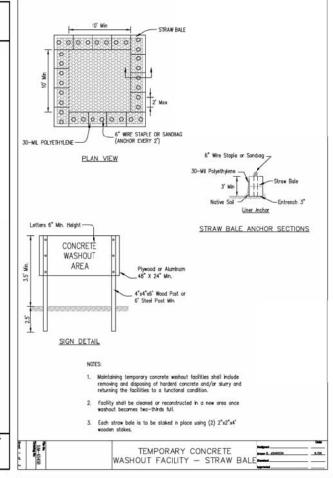


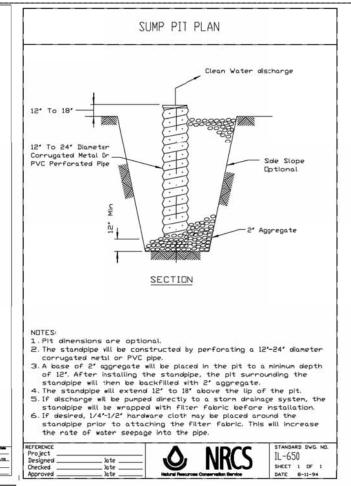


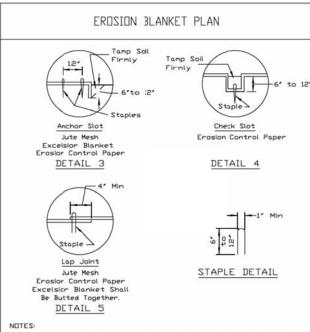


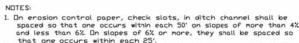








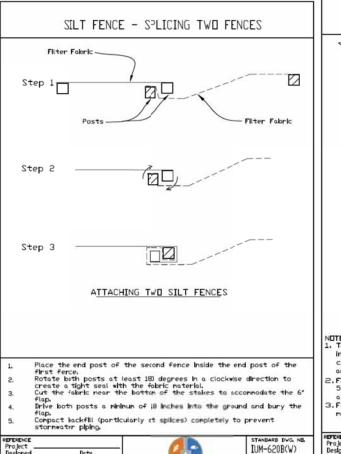


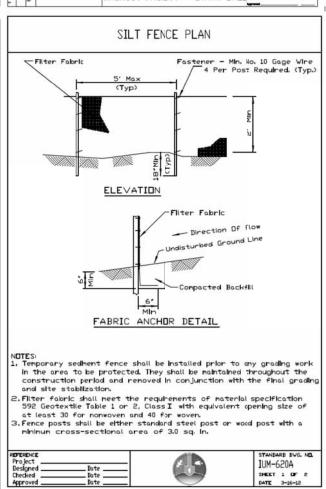


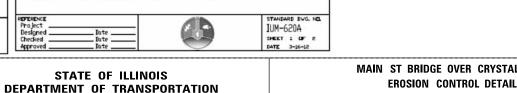
- In erosion control paper, check slots, in ditch channel shall be spaced so that one occurs within each 50° on slopes of nore than 4% and less than 6%. In slopes of 6% or more, they shall be spaced so that one occurs within each 25°.
 Staples are to be placed alternately, in columns approximately 2° apart and in rows approximately 3° apart. Approximately 175 staples are required per 4°x 225° roll of naterial and 125 staples are required per 4°x 150° roll of material.
 Erosion control material shall be placed loosely over ground surface ID not stretch.
 All terninal ends and transverse laps shall be stapled at approximately 12° intervals.
- approximately 12' intervals.



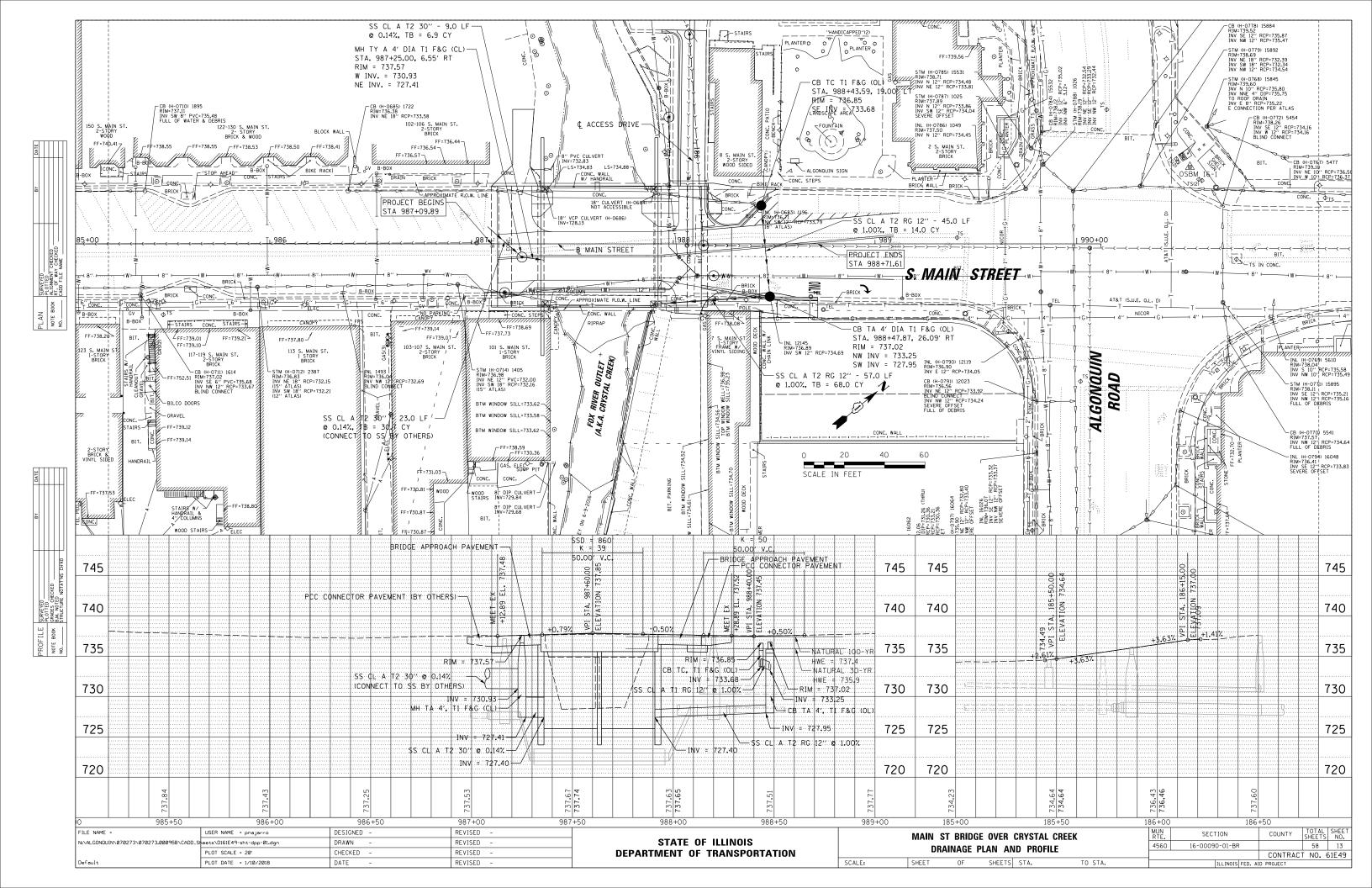
IL-530

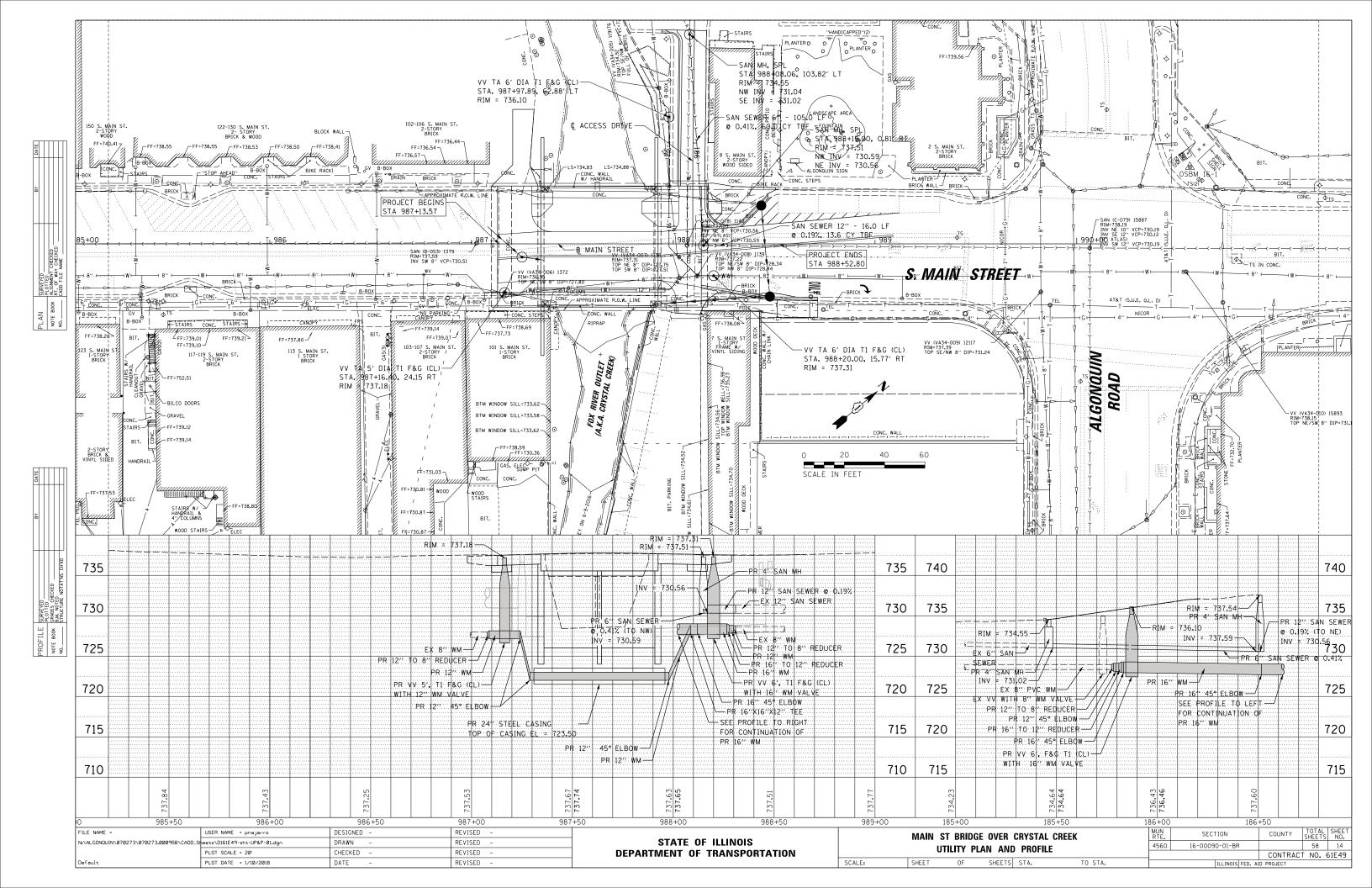


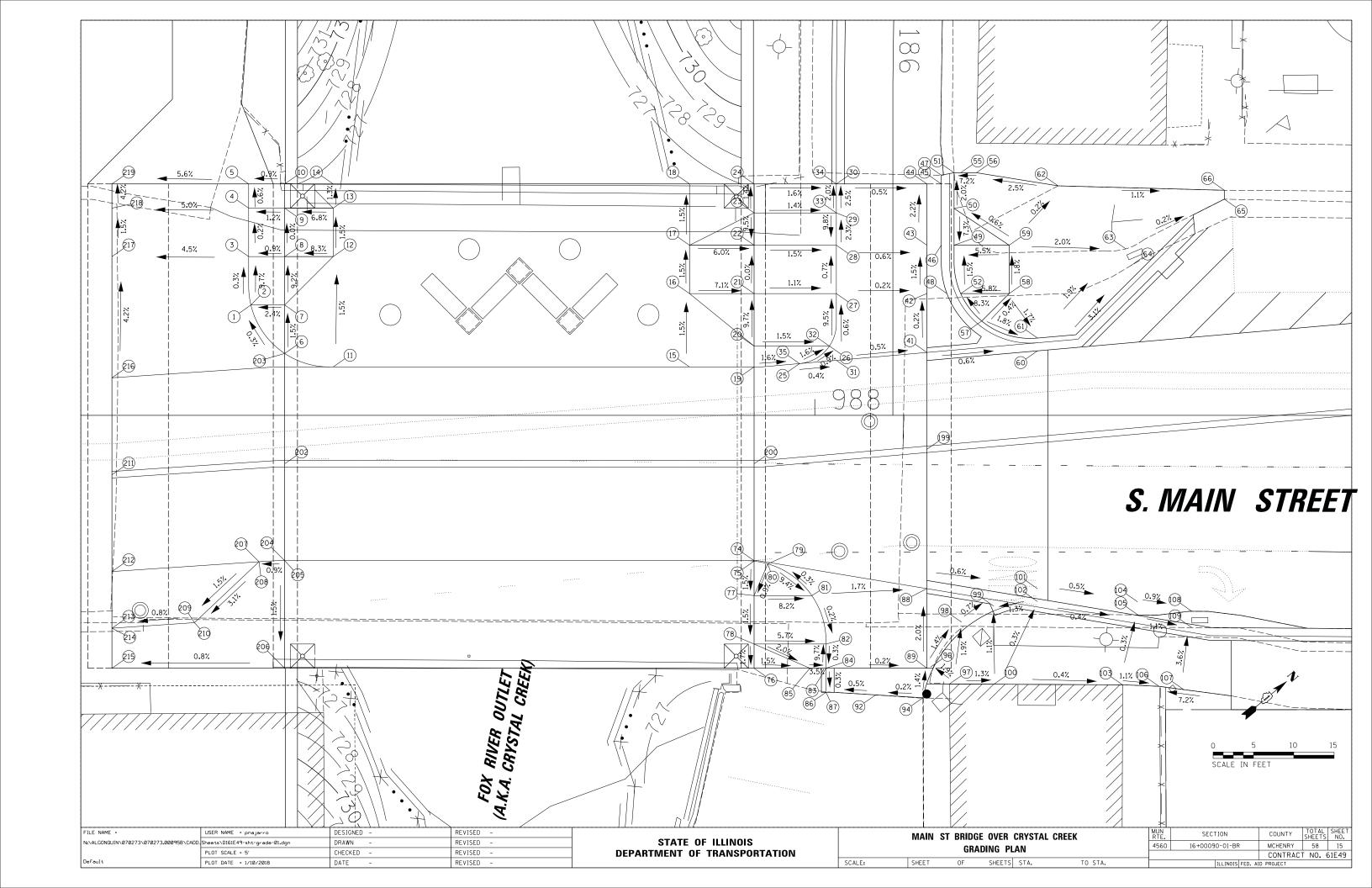












POINT	MAIN ST STATION	<u>OFFSET</u>	<u>LT/RT</u>	ELEVATION
1	987+30.11	-13.67	LT	737.39
2	987+30.11	-13.67	LT	737.95
3	987+29.84	-19.67	LT	737.37
4	987+29.84	-25.67	LT	737.36
5	987+29.84	-28.67	LT	737.34
6	987+34.31	-7.67	LT	738.05
7	987+34.31	-13.67	LT	737.96
8	987+34.31	-19.67	LT	737.41
9	987+34.31	-25.67	LT	737.41
10	987+34.31	-28.67	LT	737.41
11	987+40.31	-6.00	LT	738.12
12	987+40.31	-19.67	LT	737.91
13	987+40.31	-25.67	LT	737.82
14	987+40.31	-28.67	LT	737.78
15	987+84.47	-6.00	LT	738.16
16	987+84.47	-15.09	LT	738.02
17	987+84.47	-21.09	LT	737.93
18	987+84.47	-28.67	LT	737.82
19	987+92.47	-7.45	LT	738.12
20	987+92.47	-8.59	LT	738.10
21	987+92.47	-15.09	LT	737.45
22	987+92.47	-21.09	LT	737.45
23	987+92.47	-25.09	LT	737.83
24	987+92.47	-28.67	LT	737.78
25	987+98.11	-6.41	LT	737.42
26	988+01.81	-8.59	LT	737.38
27	988+02.67	-15.09	LT	737.34
28	988+02.67	-21.09	LT	737.30
29	988+02.67	-25.09	LT	737.21
30	988+02.67	-28.67	LT	737.12
31	988+02.67	-6.81	LT	737.40
32	988+01.81	-8.59	LT	737.96
33	988+02.67	-25.09	LT	737.69
34	988+02.67	-28.67	LT	737.62
35	987+98.11	-6.41	LT	738.03
41	988+13.89	-7.79	LT	737.34
42	988+13.89	-15.09	LT	737.32
43	988+13.89	-21.09	LT	737.23
44	988+13.89	-28.67	LT	737.07
45	988+15.67	-28.67		737.05

POINT	MAIN ST STATION	OFFSET	<u>LT/RT</u>	ELEVATION
46	988+15.67	-21.09	LT	737.21
47	988+15.67	-29.76	LT	737.02
48	988+16.38	-15.09	LT	737.31
49	988+17.25	-21.09	LT	737.21
50	988+17.25	-25.64	LT	737.50
51	988+17.25	-30.06	LT	737.20
52	988+18.08	-15.09	LT	737.31
55	988+18.08	-30.06	LT	737.41
56	988+20.02	-30.06	LT	737.27
57	988+20.68	-11.68	LT	737.68
58	988+24.08	-15.09	LT	737.66
59	988+24.08	-21.09	LT	737.55
60	988+27.60	-7.99	LT	737.33
61	988+27.60	-9.58	LT	737.55
62	988+30.15	-28.04	LT	737.53
63	988+38.54	-20.63	LT	737.26
64	988+39.16	-18.54	LT	736.84
65	988+50.75	-26.79	LT	737.24
66	988+50.76	-27.89	LT	737.31
74	987+92.47	18.00	RT	737.45
75	987+92.47	18.06	RT	738.12
76	987+92.47	31.33	RT	737.92
77	987+92.47	22.33	RT	738.06
78	987+92.47	28.33	RT	737.97
79	987+94.18	18.39	RT	737.45
80	987+94.18	18.39	RT	738.10
81	987+99.63	22.33	RT	737.47
82	988+01.39	28.33	RT	737.46
83	988+01.39	31.33	RT	737.75
84	988+01.39	31.33	RT	737.45
85	987+99.39	31.33	RT	737.82
86	988+01.39	34.25	RT	737.90
87	988+01.39	34.25	RT	737.44
88	988+13.89	21.47	RT	737.23
89	988+13.89	31.33	RT	737.43
92	988+07.55	34.63	RT	737.47
93	988+10.56	19.25	RT	737.18
94	988+13.39	34.99	RT	737.48
95				
96	988+14.35	31,17	RT	737.40

POINT	MAIN ST STATION	<u>OFFSET</u>	<u>LT/RT</u>	ELEVATION
97	988+16.69	33.28	RT	737.46
98	988+18.08	25.62	RT	737.31
99	988+22.18	23.68	RT	737.28
100	988+22.18	33.31	RT	737.39
101	988+27.60	21.48	RT	737.08
102	988+27.60	23.06	RT	737.35
103	988+38.14	33.38	RT	737.33
104	988+40.00	23.11	RT	737.02
105	988+40.00	24.69	RT	737.3
106	988+42.66	33.57	RT	737.28
107	988+45.71	33.97	RT	737.5
108	988+46.72	24.27	RT	736.96
109	988+46.72	26.29	RT	737.22
199	988+13.89	4.21	RT	737.58
200	987+92.47	6.00	RT	737.69
202	987+34.31	6.00	RT	737.65
203	987+34.31	-7.67	LT	737.41
204	987+34.31	18.00	RT	737.41
205	987+34.31	18.00	RT	738.08
206	987+34.31	31.33	RT	737.88
207	987+31.13	18.14	RT	737.38
208	987+31.13	18.14	RT	738.05
209	987+23.13	25.68	RT	737.22
210	987+23.13	25.68	RT	737.72
211	987+12.89	7.36	RT	737.48
212	987+12.89	19.35	RT	737.24
213	987+12.89	26.37	RT	737.14
214	987+12.89	26.37	RT	737.64
215	987+12.89	31.33	RT	737.71
216	987+12.89	-4.65	LT	737.24
217	987+12.89	-19.67	LT	736.61
218	987+12.89	-25.67	LT	736.52
219	987+12.89	-28.67	LT	736.39

XXX.XX

MEET EX GRADE ELEVATION

FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -
N:\ALGONOUIN\070273\070273.00095B\CADD.	Sheets\D161E49-sht-grade_schedule-01.dgn	DRAWN -	REVISED -
	PLOT SCALE = 5'	CHECKED -	REVISED -
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

										1
	MAIN ST BRIDGE OVER CRYSTAL CREEK GRADING SCHEDULE					MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						4560	16+00090-01-BR	MCHENRY	58	16
	GHADING SCHEDOLL							CONTRAC	T NO. 6	61E49
	SHEET	OF	SHEETS	STA.	TO STA.	TILL INDIS FED. AID PROJECT				

LIGHTING GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE VILLAGE OF ALGONOUIN BEFORE THE START OF WORK.
- 2. THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY EQUIPMENT. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT (800) 892-0123
- 3. BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD UTILITIES CALL COM ED FOR LOCATION APPROVAL AND MINIMUM CLEARANCE REQUIREMENTS.
- I. THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF ANY EXISTING UTILITY SERVICE. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION.
- 5. ALL REMOVAL OR EXCAVATION ITEMS BEING DISPOSED OF AT AN UNCONTAMINATED SOIL FILL OPERATION OR CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) FILL SITE SHALL MEET THE REQUIREMENTS OF PUBLIC ACT 96-1416. ALL COSTS ASSOCIATED WITH MEETING THESE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE COST FOR THE ASSOCIATED REMOVAL OR EXCAVATION ITEMS IN THE CONTRACT. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO ALL REQUIRED TESTING, LAB ANALYSIS, CERTIFICATION BY A LICENSED PROFESSIONAL OWNER'S REPRESENTATIVE, AND STATE AND LOCAL TIPPING FEE.
- 6. ALL DISTURBED AREAS WHERE RESTORATION IS NOT COVERED BY THE CONTRACT DRAWINGS AND/OR APPLICABLE SECTIONS OF THE SPECIAL PROVISIONS MUST BE RESTORED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- 7. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
- 8. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
 - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS". AS PREPARED BY IDOT.
 - B. "THE NATIONAL ELECTRIC CODE."
 - C. MUNICIPAL CODE & ORDINANCE.
- 9. THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE NOT INTENDED TO SHOW ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DRAWINGS AND SPECIFICATIONS IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENCAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DRAWINGS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DRAWINGS AND SPECIFICATIONS, BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK.
- 10. NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED BY THE OWNER'S REPRESENTATIVE.
- 11. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT OR OTHER PIECE OF EQUIPMENT.
- 12. THE INSTALLATION OF BURIED WARNING TAPE, SPECIFIED AS PART OF TRENCH FOR UNDERGROUND CONDUITS, SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO BACKFILLING OR PLOWING OPERATIONS, AS APPLICABLE.
- 13. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR TIMELY NOTIFICATION AND COORDINATION WITH COM ED AND THE VILLAGE OF ALGONQUIN.
- 14. THE CONTRACTOR SHALL LABEL ALL WIRES WITH WIRE MARKERS INDICATING THE CIRCUIT ID IN EVERY CONTROLLER, POLE BASE, HAND HOLE AND SPLICE/CONNECTION POINT. WIRE MARKERS SHALL BE MECHANICALLY FASTENED WHITE PLASTIC, TYPE "PLM" AS MANUFACTURED BY PANDUIT OR EQUAL.
- 15. ALL UNDERGROUND WIRING SHALL BE MINIMUM #10 COPPER (OR SIZE AS SHOWN ON THE PLANS) XLP TYPE-USE, EXTRA ABRASION RESISTANCE, 600 VOLTS, INSTALLED IN CONDUIT A MINIMUM 30 INCHES BELOW FINISHED GRADE, FOLLOWING THE ROADWAY OR SIDEWALK EDGE.
- 16. ALL HANDHOLES SHALL FACE AWAY FROM TRAFFIC.
- 17. THE LIGHT LOCATIONS SHALL COMPLY WITH THE MINIMUM CLEAR WIDTH FOR AN ACCESSIBLE ROUTE FOR SIDEWALKS PER CURRENT AMERICAN WITH DISABILITIES ACT (ADA) REQUIREMENTS.

LIGHTING GENERAL NOTES (CONTINUED)

- 18. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL LIGHTS FOR EXAMINATION BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO MARKING LOCATIONS. THE EXACT LOCATIONS OF ALL PROPOSED ITEMS SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING WORK.
- 19. THE ELECTRICAL CONTRACTOR SHALL FURNISH TWO FULL SIZE SETS OF RECORD DRAWINGS TO THE OWNER'S REPRESENTATIVE UPON COMPLETION OF THE LIGHTING AND ELECTRICAL IMPROVEMENTS. THE DRAWINGS SHALL SHOW THE INSTALLED LOCATION OF ALL LIGHTS, UNDERGROUND CONDUIT & WIRING, HANDHOLES, CONTROLS & PANELBOARDS/POWER SUPPLY.
- 20. UPON COMPLETION OF THE PROPOSED LIGHTING IMPROVEMENTS, THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLATION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS. ALL ELECTRICAL TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND THE VILLAGE.
- 21. THE CONTRACTOR SHALL PROVIDE A GUARANTEE FOR ALL MATERIAL AND WORKMANSHIP FOR ONE YEAR AFTER THE DATE OF ACCEPTANCE.
- CONDUIT MUST BE POSITIONED IN THE TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES AND LANDSCAPING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE.

23.

- CARE IS TO BE TAKEN AS NOT TO DAMAGE ANY OF THE EXISTING TRAFFIC SIGNAL CONDUITS, DETECTORS AND EQUIPMENT. IF ANY OF THE TRAFFIC SIGNAL CONDUIT AND/OR EQUIPMENT IS 24. DAMAGED, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE THE CONDUIT AND/OR EQUIPMENT
- 25. ALL CONDUITS SHALL BE INSTALLED BY DIRECTIONAL BORING METHOD. SOME LOCATIONS MAY REQUIRE TRENCHING AND/OR HAND DIGGING. CONTRACTOR SHALL PROVIDE PRIOR NOTICE TO ENGINEER BEFORE TRENCHING.

ABBREVIATIONS

Α	AMPS	НН	H	HAND HOLE
ВОС	BACK OF CURB	HPS	H	HIGH PRESSURE SODIUM
CKT	CIRCUIT	PVC	F	POLYVINYL CHLORIDE
DIA	DIAMETER	RGS	F	RIGID GALVANIZED STEEL
FT	FOOT	ROW	F	RIGHT OF WAY
FOC	FACE OF CURB	STA	9	STATION
GND	GROUND	V	١	/OLTS
HD	HEAVY DUTY	W	V	WATTS
HDPE	HIGH DENSITY POLY	ETHYLENE		

CAUTION NOTE TO CONTRACTOR:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED TO THE LOCATION AND/OR ELEVATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THESE PLANS. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ENGINEER OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS.

LEGEND

PROPOSED 34W PEDESTRIAN AREA PERGOLA MOUNTED DOWNLIGHT (STERNBERG MODEL NO: 1521LED-F-2ARC-PROPOSED WIRE IN SCH 40 HDPE CONDUIT AS SHOWN IN CONDUCTOR AND CONDUIT SCHEDULES —— un —— PROPOSED RGS CONDUIT SLEEVE FOR HDPE CONDUIT UNDER PAVEMENT AS PROPOSED ELECTRIC SERVICE CABLE AND CONDUIT -PROPOSED ELECTRIC SERVICE DROP LOCATION \blacksquare PROPOSED LIGHTING CONTROLLER PROPOSED 11" X 18" X 18" COMPOSITE CONCRETE HANDHOLE CIRCUIT IDENTIFIER CKT A EXISTING SANITARY SEWER EXISTING STORM SEWER ___ w |____ EXISTING WATERMAIN EXISTING OVERHEAD WIRES EXISTING GAS LINE EXISTING ELECTRIC LINE EXISTING FIBER OPTIC LINE

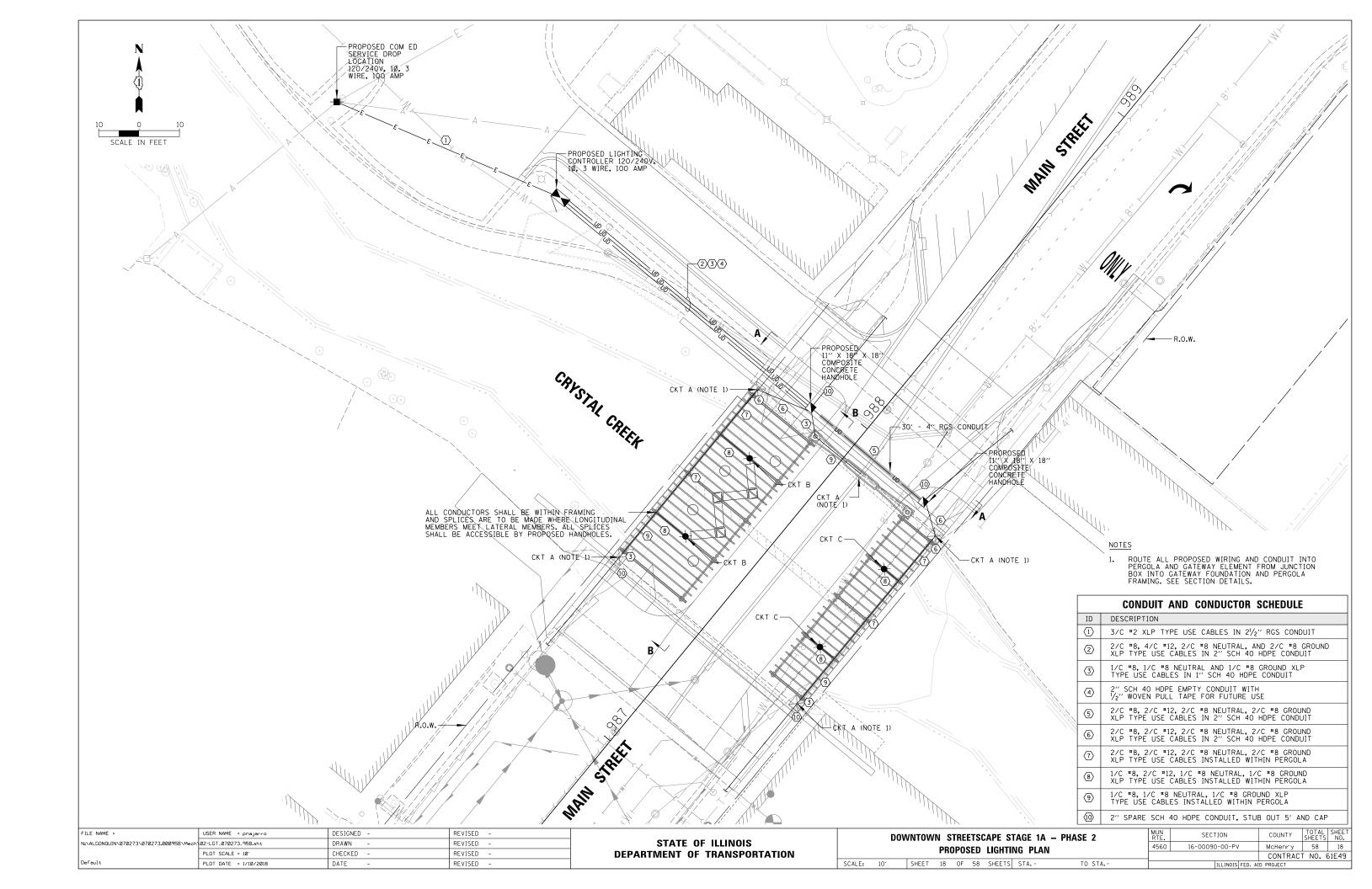
BILL OF MATERIALS

Code No.	Description	Unit	Quantit
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
80400100	ELECTRIC UTILITY SERVICE CONNECTION	L SUM	1
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL 2 1/2" DIA. ELECTRIC SERVICE	FOOT	130
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL. 4" DIA.	FOOT	70
81028720	UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 1" DIA.	FOOT	350
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC, 2" DIA.	FOOT	560
81400730	HANDHOLE COMPOSITE CONCRETE	EACH	2
81702100	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 12	FOOT	1300
81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	:000
81702150	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	390
82500335	LIGHTING CONTROLLER PEDESTAL MOUNT, 240V, 100 AMP	EACH	1
	COLUMN LIGHTING UNIT, COMPLETE IN PLACE	EACH	4
	CANOPY LIGHTING UNIT, COMPLETE IN PLACE	EACH	4

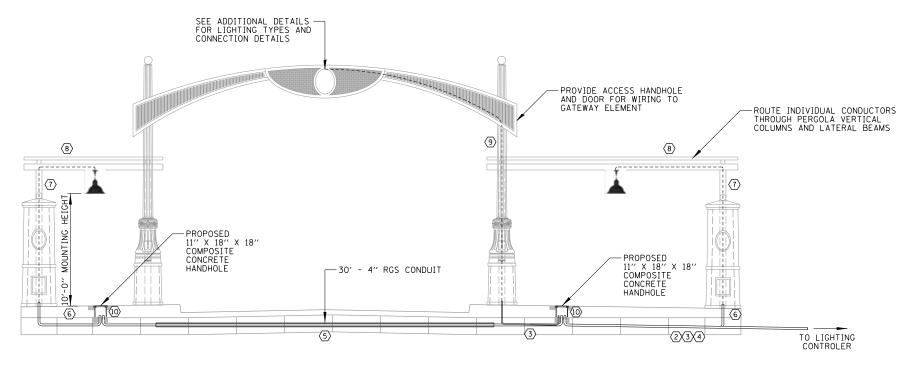
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -	
	PLOT SCALE = 20'	CHECKED -	REVISED -	DEPARTMI
N:\ALGONQUIN\070273\070273.00095B\Mech	01-N0T_070273_95B.sht	DRAWN -	REVISED -	S ⁻
FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -	

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

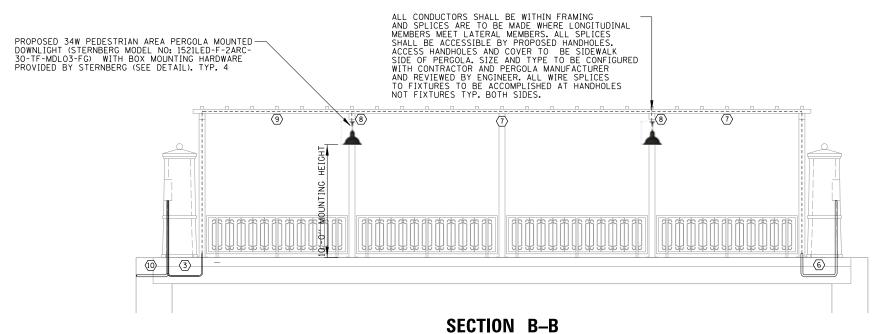
1	DOWNTOWN STREETSCAPE STAGE 1A - PHASE 2	MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LIGHTING GENERAL NOTES	4560 16-00090-00-PV		McHenry	58	17
	LIGITING GENERAL NOTES			CONTRAC	T NO. 6	61E49
١	SCALE: N.T.S. SHEET 17 OF 58 SHEETS STA TO STA	TILL INDISCEED. ATD PROJECT				



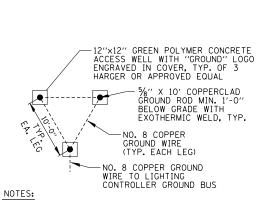
	CONDUIT AND CONDUCTOR SCHEDULE
ID	DESCRIPTION
1	3/C #2 XLP TYPE USE CABLES IN 21/2" RGS CONDUIT
2	2/C #8, 4/C #12, 2/C #8 NEUTRAL, AND 2/C #8 GROUND XLP TYPE USE CABLES IN 2" SCH 40 HDPE CONDUIT
3	1/C #8, 1/C #8 NEUTRAL AND 1/C #8 GROUND XLP TYPE USE CABLES IN 1" SCH 40 HDPE CONDUIT
4	$2^{\prime\prime}$ SCH 40 HDPE EMPTY CONDUIT WITH $1_{2^{\prime\prime}}^{\prime\prime}$ WOVEN PULL TAPE FOR FUTURE USE
(5)	2/C *8, 2/C *12, 2/C *8 NEUTRAL, 2/C *8 GROUND XLP TYPE USE CABLES IN 2" SCH 40 HDPE CONDUIT
6	2/C #8, 2/C #12, 2/C #8 NEUTRAL, 2/C #8 GROUND XLP TYPE USE CABLES IN 2" SCH 40 HDPE CONDUIT
7	2/C #8, 2/C #12, 2/C #8 NEUTRAL, 2/C #8 GROUND XLP TYPE USE CABLES INSTALLED WITHIN PERGOLA
8	1/C *8, 2/C *12, 1/C *8 NEUTRAL, 1/C *8 GROUND XLP TYPE USE CABLES INSTALLED WITHIN PERGOLA
9	1/C #8, 1/C #8 NEUTRAL, 1/C #8 GROUND XLP TYPE USE CABLES INSTALLED WITHIN PERGOLA
(10)	2" SPARE SCH 40 HDPE CONDUIT, STUB OUT 5" AND CAP



SECTION A-A



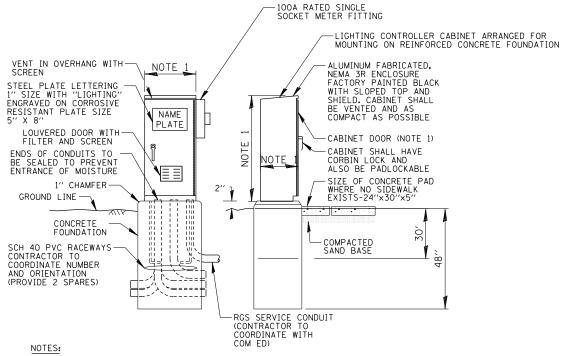
FILE NAME =		USER NAME = pnajarro	DESIGNED -	REVISED -		DOWNTOWN STREETSCAPE STAGE 1A - PHASE 2	MUN RTE	SECTION	COUNTY TOTAL SHEETS	SHEET NO.
N:\ALGONQUIN\070	0273\070273.00095B\Mech	03-LDT_070273_95B.sht	DRAWN -	REVISED -	STATE OF ILLINOIS	LIGHTING DETAILS (1 OF 4)	4560	16-00090-00-PV	McHenry 58	19
		PLOT SCALE = 4'	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS (I UF 4)			CONTRACT NO. 6	1E49
Default		PLOT DATE = 1/10/2018	DATE -	REVISED -		SCALE: N.T.S. SHEET 19 OF 58 SHEETS STA TO STA		ILLINOIS FED. AII	D PROJECT	$\overline{}$



1. ACCESS WELLS SHALL BE INCLUDED IN THE LIGHTING CONTROLLER PAY ITEM.

GROUND FIELD DETAIL

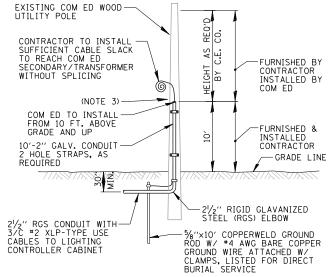
N.T.S.



1. CABINET DIMENSIONS SHALL BE AS COMPACT AS POSSIBLE, CONTRACTOR TO COORDINATE

LIGHTING CONTROLLER CABINET AND FOUNDATION

N.T.S.



NOTES:

- 1. ALL WORK SHALL CONFORM TO COM ED'S BOOK OF "INFORMATION AND REQUIREMENTS FOR THE SUPPLY OF ELECTRIC SERVICE."
- 2. FURNISHING AND INSTALLING ALL MATERIAL SHOWN ABOVE (EXCEPT FOR POLE) SHALL BE INCLUDED IN THE PRICE BID FOR "ELECTRIC SERVICE INSTALLATION". THE HORIZONTAL SERVICE CONDUIT AND WIRING FROM POLE TO CONTROLLER SHALL BE PAID FOR SEPARATELY.
- 3. CONTRACTOR TO PROVIDE A CONDUIT BUSHING AND SEALING COMPOUND AT TOP OF RISER.

COM ED OVERHEAD CONNECTION POLE

N.T.S.

FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -		DOWNTOWN STREETSCAPE STAGE 1A - PHASE 2 LIGHTING DETAILS (2 OF 4)		SECTION	COUNTY	TOTAL SHEET
N:\ALGONOUIN\070273\070273.00095B\Mech	04-LDT_070273_95B.sht	DRAWN -	REVISED -	STATE OF ILLINOIS			16-00090-00-PV	McHenry	58 20
	PLOT SCALE = 20'	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	LIGHTING DETAILS (2 OF 4)			CONTRACT	NO. 61E49
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -		SCALE: N.T.S. SHEET 20 OF 58 SHEETS STA TO STA		ILLINOIS FED. AII	D PROJECT	

ITEM	SPECIFICATION	MFG./MODEL NO. OR APPROVED EQUAL
(1) MAIN CIRCUIT BREAKER (NOTE 2)	100 AMPERE, 2P, 240V RATING, 25KAIC, THERMAL MAGNETIC MOLDED CASE	SQUARE D NO. HDL26100
2 CABINET HEATER	400W, 120V, WITH INTEGRAL ADJUSTABLE THERMOSTAT 0 F TO 100 F, ALUMINUM HOUSING, BALL BEARING FAN	HOFFMAN NO. DAH 4001B
3 GROUND & NEUTRAL BUS	COPPER NEUTRAL BUS- MINIMUM 20 SPARE TERMINANATIONS (*1/0-*10), & COPPER GROUND BUS - MINIMUM 12 SPARE TERMINATIONS (*1/0-*10). BUSSES SHALL BE HORIZONTAL LOCATED 4" FROM BASE OF CABINET	ERICO NO. TCB
4 PHOTOCELL	120V, MTD. ON CABINET, DELAY TYPE, SPST-NC	FISHER PIERCE NO. FPFA-105
(5) CABINET RECEPTACLE AND BOX	COMMERCIAL GRADE GFCI 20A/120V, MOUNTED IN A WEATHERPROOF DIE CAST ALUMINUM SINGLE GANG BOX WITH WEATHERPROOF FLAPPER TYPE COVER	RECEPTACLE: LEVITON NO. 8899, BOX: APPLETON NO. WSM150 COVER: APPLETON NO. WHG1
6 CABINET LIGHT	5 WATT LED STRIP LIGHT, 60K HOUR RATING, 65K COLOR TEMPERATURE, DOOR SWITCH CONTROLLED, FASTENED TO TOP OF CABINET	PENTAIR NO. LEDAIS35
7 NOT USED		
8 LIGHTING PANELBOARD LP-A	120/240V-10-100A MAIN LUG ONLY, 12 SPACE, 22KAIC, INTERIOR ONLY WITHOUT ENCLOSURE, BOLT ON BREAKERS (SEE PANELBOARD SCHEDULE)	N/A
9 NOT USED		
(10) SERVICE CABLES	3-600V (XLP-TYPE USE) NO. 2 AWG	N/A
(1) LAMPHOLDER/RECEPTACLE WIRE	600V MTW NO. 12, MARKED WITH BRADY MARKERS	N/A
(12) CONTROL/PHOTOCELL WIRE	600V MTW NO. 12, MARKED WITH BRADY MARKERS	N/A
(13) SURGE ARRESTOR	40K AMPERE RATING PER PHASE	SQUARE D NO. SDSA 3650
(14) BACKBOARD	√2" THICK, SOLID PHENOLIC LAMINATE	ARBORON
(15) DOOR SWITCH	20 AMPERE, 120 VOLT, MOUNTED IN DOOR, SNAP ACTION TYPE, PLUNGER SWITCH,	OMRON NO. A-20GQ-K
16 LIGHTING CONTROL RELAY/DIMMING PANEL	NEMA 1 8-SPACE DIMMING AND RELAY MODULE ENCLOSURE	LEVITON GREENMAX ROSTC-100
17) PHOTOCELL TERMINAL BLOCK	3 TERMINAL, SCREW TYPE, #14-#10 WIRE SIZE RANGE, REMOTE PHOTOCELL	CINCH NO. 3-142
(18) TERMINAL BLOCKS	30 AMPERE, 240V, 30 CKTS, #12-#1/O AWG, INSULATED, CKTS LABELED, BLOCKS INSTALLED HORIZONTAL LOCATED 10" FROM BASE OF CABINET	SQUARE D NO. GD6

NOTES:

- THE LIGHTING CONTROLLER TOGETHER WITH ALL OF ITS COMPONENTS SHALL BE UL LISTED AS AN "ENCLOSED INDUSTRIAL CONTROL PANEL" UNDER UL508A.
- 2. THE MAIN CIRCUIT BREAKER SHALL BE LABELED "SERVICE DISCONNECT".
- 3. ALL SWITCHES AND CONTROLS SHALL BE IDENTIFIED USING TWO COLOR ENGRAVED NAMEPLATES.
- THE PANEL MANUFACTURER SHALL LABEL THE CABINET WITH THE APPROPRIATE ARC FLASH WARNING AND PERSONNEL PROTECTION EQUIPMENT REQUIRED FOR SERVICING.
- 5. ALL EXPOSED BUS BARS SHALL BE INSULATED.
- 6. ALL WIRING SHALL BE COPPER.
- 7. CONNECTION OF SURGE ARRESTOR TO LINE SIDE OF MAIN CIRCUIT BREAKER SHALL NOT BE "DOUBLE LUGGED".

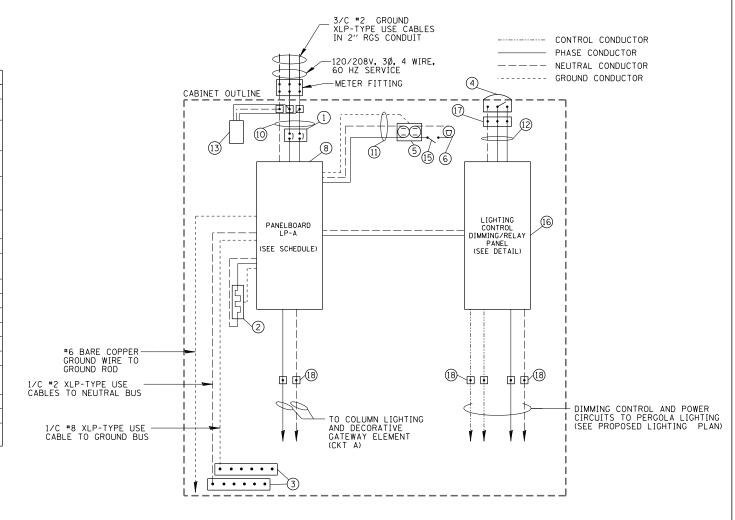
LIGHTING CONTROLLER COMPONENT SCHEDULE

		PANI	ELBO	ARD S	CHE	DULE	LP-A		
		FED FROM: TR-1 VOLTAGE: 120/240V, 1 PH BUS SIZE: 125	, 3W			PHASE: 168 PHASE: 68	VA VA		
	70.00	MAINS: 100A - MLO SPACES: 12 RT CKT RATING: 22KAIC NDING JUMPER: YES MOUNTING: IN LIGHTING C	ONTROL	IFR		TOTAL TOTAL	1]va	
		modiffino. II cioi il il o				TOTAL	1.0	14	
CKT #	CB/ POLES	DESCRIPTION	A PH VA	B PH VA	A PH VA	B PH VA	DESCRIPTION	CB/ POLES	CKT #
				ВРН	1000	B PH	Farmer versus ve		
#	POLES	DESCRIPTION	VA	ВРН	VA	B PH	DESCRIPTION	POLES	#
# A	POLES 20A/1P	DESCRIPTION COLUMN LIGHTING	VA	B PH VA	VA	B PH	DESCRIPTION WEST PERGOLA LIGHTING	POLES 20A/1P	# B
# A C	POLES 20A/1P 20A/1P	DESCRIPTION COLUMN LIGHTING EAST PERGOLA LIGHTING	VA	B PH VA	VA	B PH	DESCRIPTION WEST PERGOLA LIGHTING SPARE	20A/1P 20A/1P	# B D
# A C	POLES 20A/1P 20A/1P	DESCRIPTION COLUMN LIGHTING EAST PERGOLA LIGHTING	VA	B PH VA	VA	B PH	DESCRIPTION WEST PERGOLA LIGHTING SPARE	20A/1P 20A/1P	B D F
# A C	POLES 20A/1P 20A/1P	DESCRIPTION COLUMN LIGHTING EAST PERGOLA LIGHTING	VA	B PH VA	VA	B PH	DESCRIPTION WEST PERGOLA LIGHTING SPARE	20A/1P 20A/1P	B D F

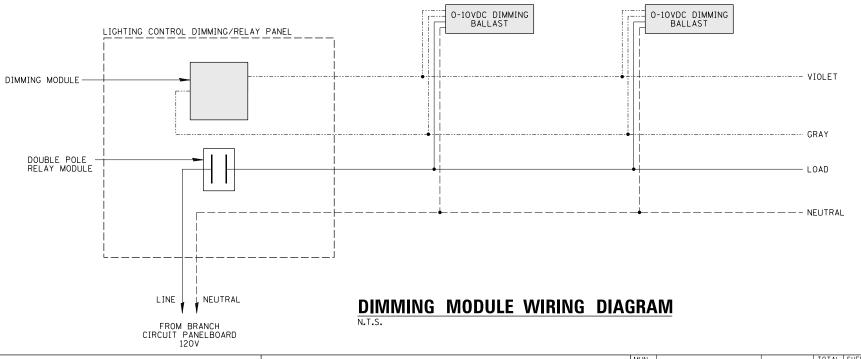
NOTES:

1. ALL CIRCUITS SHADED GRAY SHALL BE CONTROLLED THROUGH THEIR RESPECTIVE LIGHTING CONTROL RELAY/DIMMING PANEL

PANELBOARD LP-A SCHEDULE



LIGHTING CONTROLLER WIRING DIAGRAM

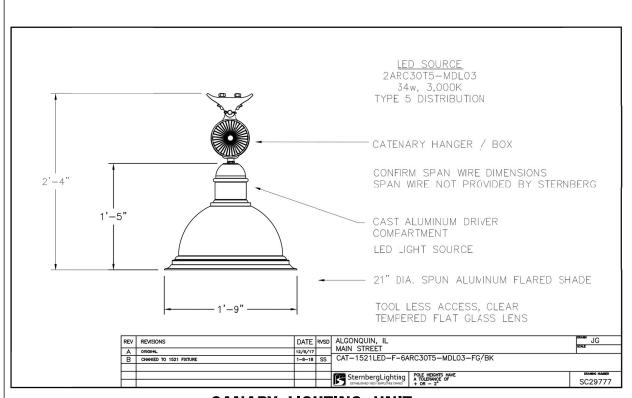


FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -
N:\ALGONQUIN\070273\070273.00095B\Mech	05-LDT_070273_95B.sht	DRAWN -	REVISED -
	PLOT SCALE = 20'	CHECKED -	REVISED -
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -

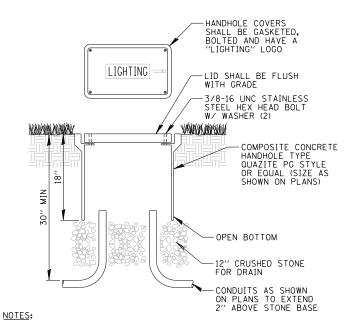
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DOWNTOWN STREETSCAPE STAGE 1A - PHASE 2
LIGHTING DETAILS (3 OF 4)

SCALE: N.T.S. SHEET 21 OF 58 SHEETS STA. - TO STA. -



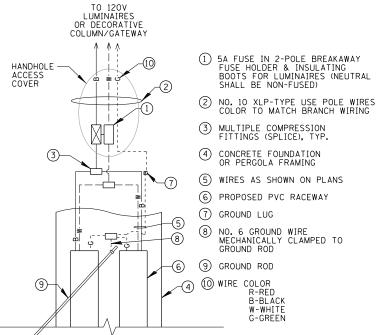




- 1. SPLICES SHALL BE WATERPROOF (SEE SPLICING ELECTRICAL CABLE DETAIL).
- 2. COMPOSITE CONCRETE HANDHOLE AND LID SHALL BE GREEN IN LANDSCAPE AREAS AND MATCH CONCRETE IN PAVED AREAS.
- 3. BOX & LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS, AND BE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SCIE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPHS 5.2.3 AND 5.2.4 OF WESTERN UNDERGROUND COMMITTEE GUIDE 3.6.

COMPOSITE CONCRETE HANDHOLE

LIGHT POLE HANDHOLE WIRING DIAGRAM



PHASE CONDUCTOR

----- GROUND CONDUCTOR --- NEUTRAL CONDUCTOR

5A FUSE IN 2-POLE BREAKAWAY FUSE HOLDER & INSULATING BOOTS FOR LUMINAIRES (NEUTRAL SHALL BE NON-FUSED)

(8)

(8)

PARTS LIST ROUND CATENARY BOX, E-Z HAP

SCREW, RD PH SS 8-32 X 1

CATENARY BOX 2468

MACHINED

GASKET TAPE 0.25W X 0.09H X 6.118 O.D. FOR

BALL, EXTERNAL THD E-Z HANG 1/2" NPS,

ROUND CATENARY BOX, E-Z HANG COVER SCREW, 10-24 X 1/2 FLAT HSEC Head PLUG, 3/4-14 NPT SQUARE- SOCKET

1 1 2468M001 ROUND CATENARY 2 1 327-FU-HDS-04 TERMINAL BLOCK

ELECTRIC CONDUIT INSTALLATION

2 SLEEVE SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.

ROADWAY CROSSING

-¢ OF TRENCH

6" TO 10"

TRENCH CROSS SECTION

VARIABLE

1 RGS_CONDUIT

SLEEVE

-RED WARNING TAPE 6" WIDE

-CABLE AND DUCT SIZES AS SHOWN ON LIGHTING PLANS

(SIZED TO ACCOMMODATE NUMBER OF CABLES) TRIMMED CABLES-

1 SLEEVE SHALL BE HEAVY WALL RIGID GALVANIZED STEEL (RGS) CONDUIT. PROPOSED BRANCH CIRCUIT CABLES (SIZE NOTED ON CONTRACT DRAWINGS) (3) SLEEVE SHALL BE A MINIMUM OF 30" BELOW ROADWAY OR CURB BOTTOM.

(10)

± 1/64

HEAT-SHRINKABLE CAP COPPER SLEEVE (SIZED FOR ACTUAL WITH FACTORY APPLIED WATERPROOF SEALANT. NUMBER OF CABLES AND MFG. SUGGESTED CRIMP TOOL USED) SEALANT TAPE OR INSERT (AROUND AND THROUGH CROTCH SPACE) EXPOSED SEALANT -#10 AWG ELECTRIC CABLE(S) TO LUMINAIRE OR AS SHOWN ON PLANS

SternbergLighting ROUND CATENARY BOX, E-Z HANG STRAIGHT COVER

2468 ASSEMBLY

COMPRESSION TYPE

SPLICING ELECTRIC CABLE

CANAPY LIGHTING CATENARY JUNCTION BOX

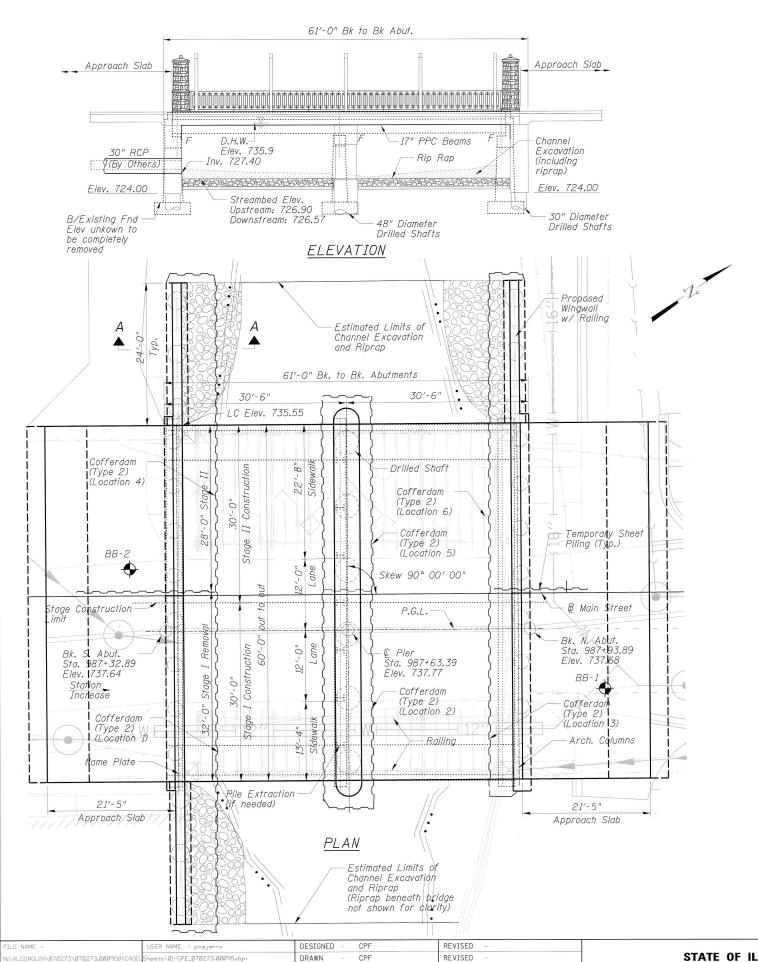
② _MIN._2′

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4560	16-00090-00-PV	McHenry	58	22
		CONTRAC	T NO. 6	51E49

R.O.W. MIN. 2'

TE OF ILLINOIS	DOWNTOWN STREETSCAPE STAGE 1A -
TATE OF TEENIOR	LIGHTING DETAILS (4 OF 4)

FILE NAME =	USER NAME = mworman	DESIGNED -	REVISED -		DOWNTOWN STREETSCAPE STAGE 1A - PHASE 2	MUN RTF.	SECTION	COUNTY TO	OTAL S
N:\ALGONQUIN\070273\070273.00095B\Mech	06-LDT_070273_95B.sht	DRAWN -	REVISED -	STATE OF ILLINOIS	LIGHTING DETAILS (4 OF 4)	4560	16-00090-00-PV	McHenry	58
	PLOT SCALE = 20'	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	LIUNTINU DETAILS (4 OF 4)			CONTRACT N	NO. 616
Default	PLOT DATE = 1/12/2018	DATE -	REVISED -		SCALE: N.T.S. SHEET 22 OF 58 SHEETS STA TO STA		ILLINOIS FED. AID	D PROJECT	



CHECKED

DATE

PLOT SCALE = 8'

PLOT DATE = 1/10/201

MM

REVISED

REVISED

Benchmark: OSBM 16-1 Square Cut on Northeast Corner of Stone Cap of Shell Gas Sign at Northwest Corner of Algonquin Road & Main Street. Elevation 742.47

Existing Structure: SN. 056-0015 was constructed in 1898 as S.B.I. Route 22, Section 18. The bridge is a 2-span structure with a length 58'-4" back to back of abutments and has no skew. The superstructure consists of 8 W21x62 wide flange steel beams and has a total deck width of 60'-0". The deck provides two lanes of traffic with a 5'-0" wide sidewalk with a 1'-0" parapet and is supported by two stacked stone abutments capped with cast in place concrete on spread footings and a pier with steel piles encased in concrete. Structure will be removed and replaced using stage construction. Salvage: none

INDEX OF SHEETS

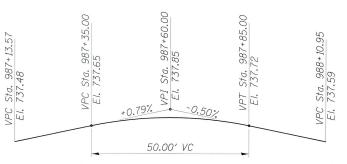
- 5-1 General Plan & Elevation
- General Notes and Details
- Construction Staging
- Superstructure
- Superstructure Details
- Railing Details S-6
- 17"x48" PPC Deck Beam 5-7
- 17"x48" PPC Deck Beam Details 17"x36" PPC Deck Beam
- 17"x36" PPC Deck Beam Details 5-10
- North Abutment
- S-11 S-12 South Abutment
- S-13 Wingwall Plan and Elevation
- 5-14 Pier
- S-15 Approach Slab Details
- S-16 Approach Slab Details
- Pergola Support
- S-18 Architectural Details
- S-19 Boring Logs

0100

Q200

Design

S-20 Boring Logs



PROFILE GRADE

DESIGN STRESSES FIELD UNITS

f'c = 4,000 psi

fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi

f'c; = 5,000 psi

 f_{pu} = 270,000 psi ($_{2}^{1}$ " ϕ low relax. strands) f_{pbt} = 201,960 psi ($_{2}^{1}$ " ϕ low relax. strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = A Design Spectral Acceleration at 1.0 sec. (SD1) = 0.081g Design Spectral Acceleration at 0.2 sec. (SDS) = 0.142q Soil Site Class = D

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2016 Interims

Range 8E

Range 9E

LOCATION SKETCH

GENERAL PLAN MAIN STREET OVER CRYSTAL LAKE OVERFLOW SECTION 16-00090-00-PV MCHENRY COUNTY STA. 987+63.39 STRUCTURE No. 056-6014

WATERWAY INFORMATION

DESIGN SCOUR ELEVATION TABLE

Pier

715.80

719.20

719.20

Design Scour Elevations (ft.)

714.60 715.80

N. Abut.

714.60

718,60

718.60

Drainage Area	Drainage Area = 26.5 Sq. Miles Low Grade Elev. 737.12 @ Sta. 986+30.48												
Flood	Freq.	Q	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwa	iter El.				
F1000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.				
	10	1469	274	405	734.5	0.8	0.4	735.4	735.0				
Design	30	2214	274	450	735.9	0.7	0.1	736.6	736.0				
Base	100	3518	274	450	737.4	1.9	0.6	738.3	738.0				
Overtopping	50	2647	274	450	736.5	1.0	0.3	737.5	736.8				
Max. Calc.	500	5209	274	450	739.4	0.0	0.0	739.4	739.4				

I Certify That To The Best Of My Knowledge, Information And Belief, This Bridge Design Is Structurally Adequate For The Design Loading Shown On The Plans.

The Design Is An Economical One For The Style Of Structure And Complies With Requirements Of The Current "AASHTO Standard Specification For Highway And Bridges".

Crystal Lake Overflow

Built ____ by

Village of Algonquin

SEC 16-00090-00-PV

Sta. 987+63.39 STR NO. 056-6014 Loading HL-93

NAME PLATE

Item 113

S. Abut.

714.60

718.60

714.60

718 60

See Std. 515001



Nous Makan MAJID MOBASSERI

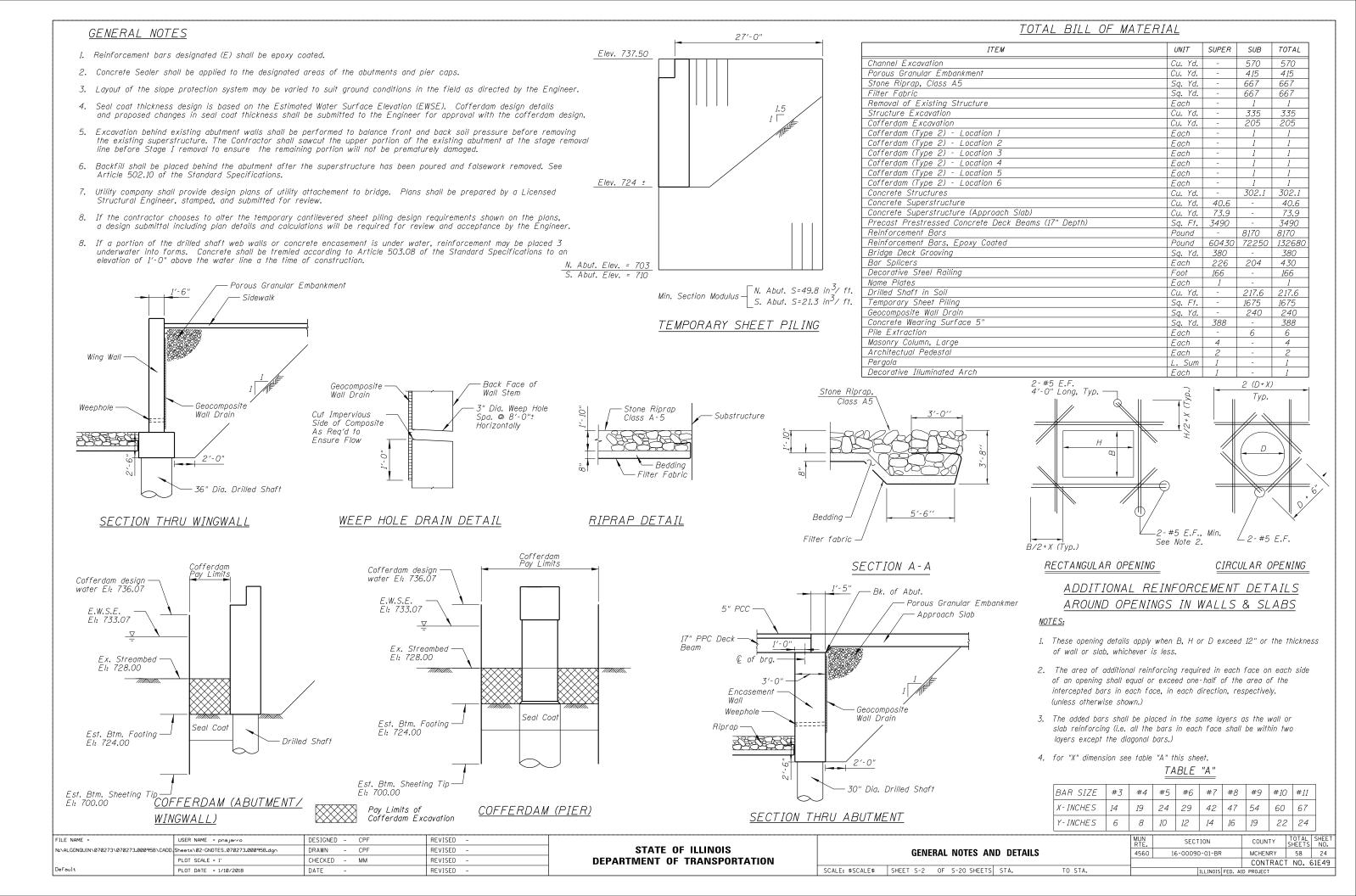
01/10/2018

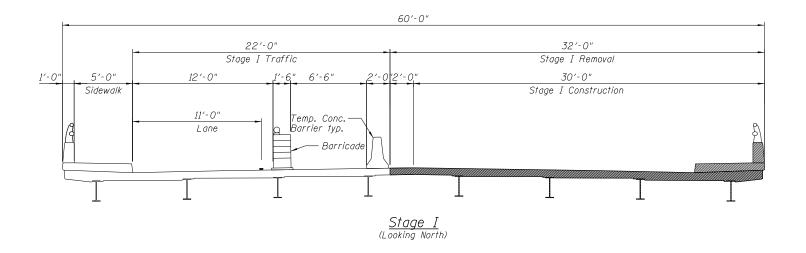
ILLINOIS REGISTRATION No. 081-005058 STRUCTURAL ENGINEER EXPIRATION DATE: II/30/2018

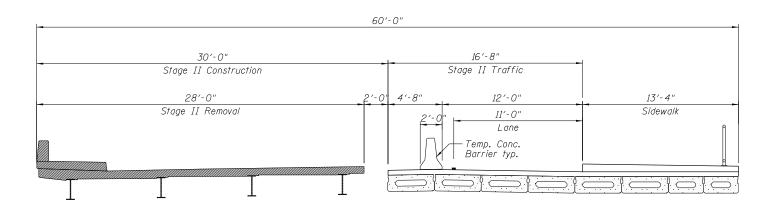
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

GENERAL PLAN & ELEVATION MAIN STREET OVER CRYSTAL LAKE OVERFLOW STRCURE NO. 056-6014 SCALE: \$SCALE\$ SHEET S-1 OF S-20 SHEETS STA. TO STA.

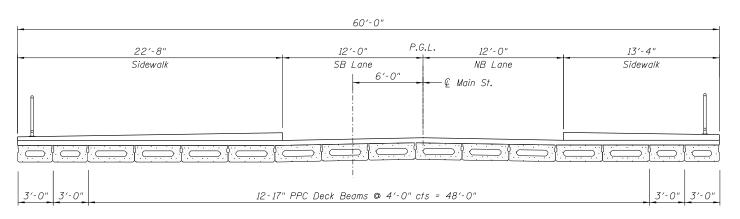
JN TE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
560	16-00090-01-BR		MCHENRY	58	23
			CONTRACT	NO.	61E49
	ILLINOIS	FED. AID	PROJECT		







<u>Stage II</u> (Looking North)

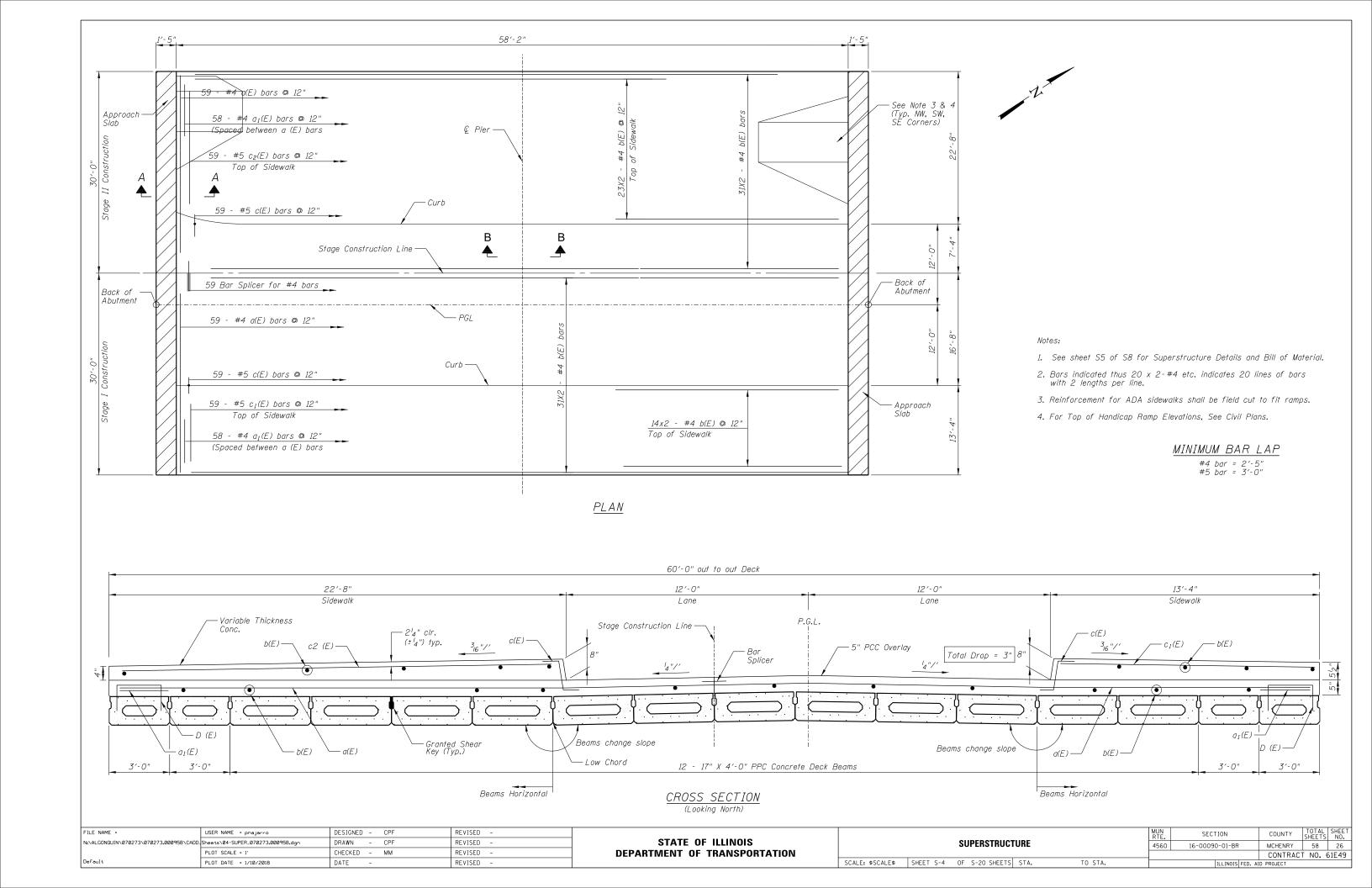


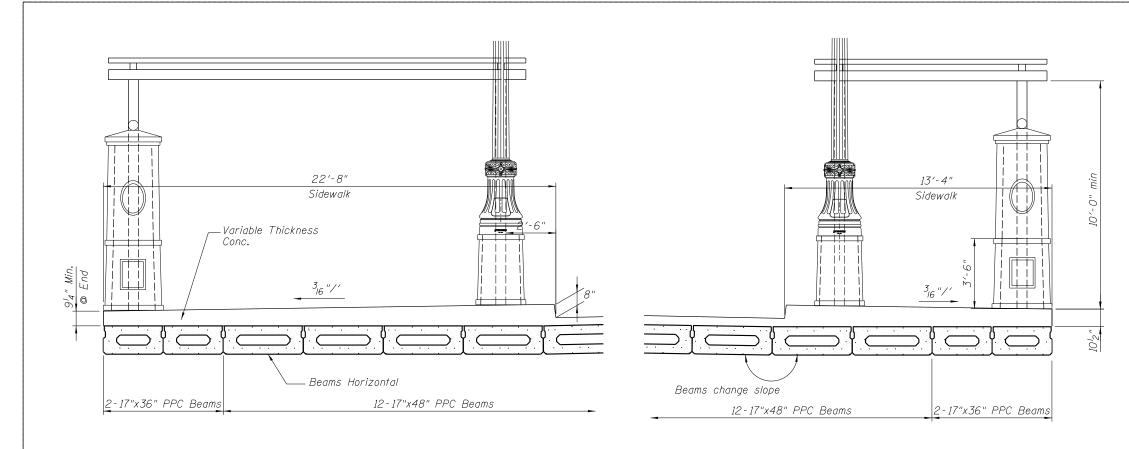
<u>Final</u> (Looking North)

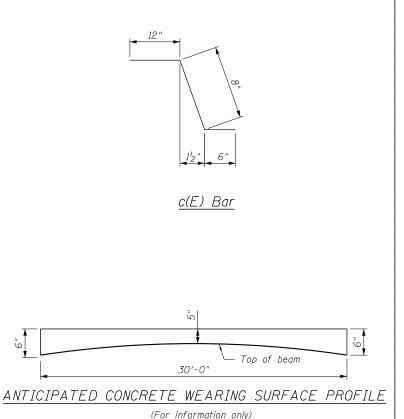
STAGED CONSTRUCTION

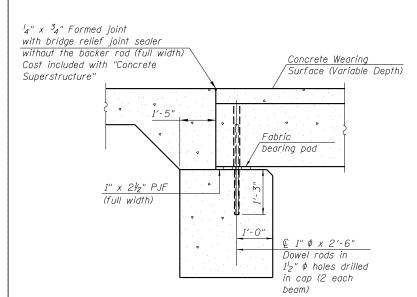
See Sheet S-11 through S-13 for Stage Construction of Abutments and Pier

FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -				MUN RTE	SECTION	COUNTY TOTAL SHEET
N:\ALGONQUIN\070273\070273.00095B\CADD	Sheets\03-STAGING_070273.00095B.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	CONSTRUCTION STAGING			16-00090-01-BR	MCHENRY 58 25
	PLOT SCALE = 8'	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT NO. 61E49
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -		SCALE: \$SCALE\$ SHEET S-3 OF S-20 SHEETS STA.	TO STA.		ILLINOIS FED. AI	D PROJECT





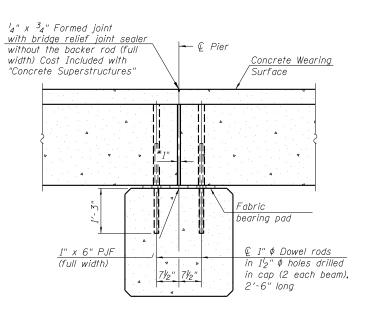




SECTION A - A

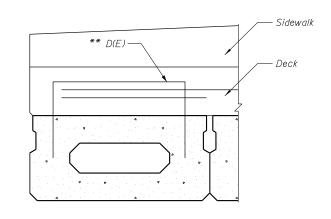
Notes:

- 1. All concrete wearing surfaces shall be placed prior to casting A backwall and/or approach slab.
- 2. See sheet S8 & S10 for fabric bearing pad details.



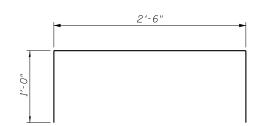
SECTION B - B

Notes:
* 1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accomodate tolerance in beam lengths. Cost included with Precast Prestressed Concrete Deck Beams (17" Depth)



SECTION THRU EDGE OF DECK

** Place #4 D(E) bars at 9" cts. in fascia beam. D(E) bar included in cost of beam.



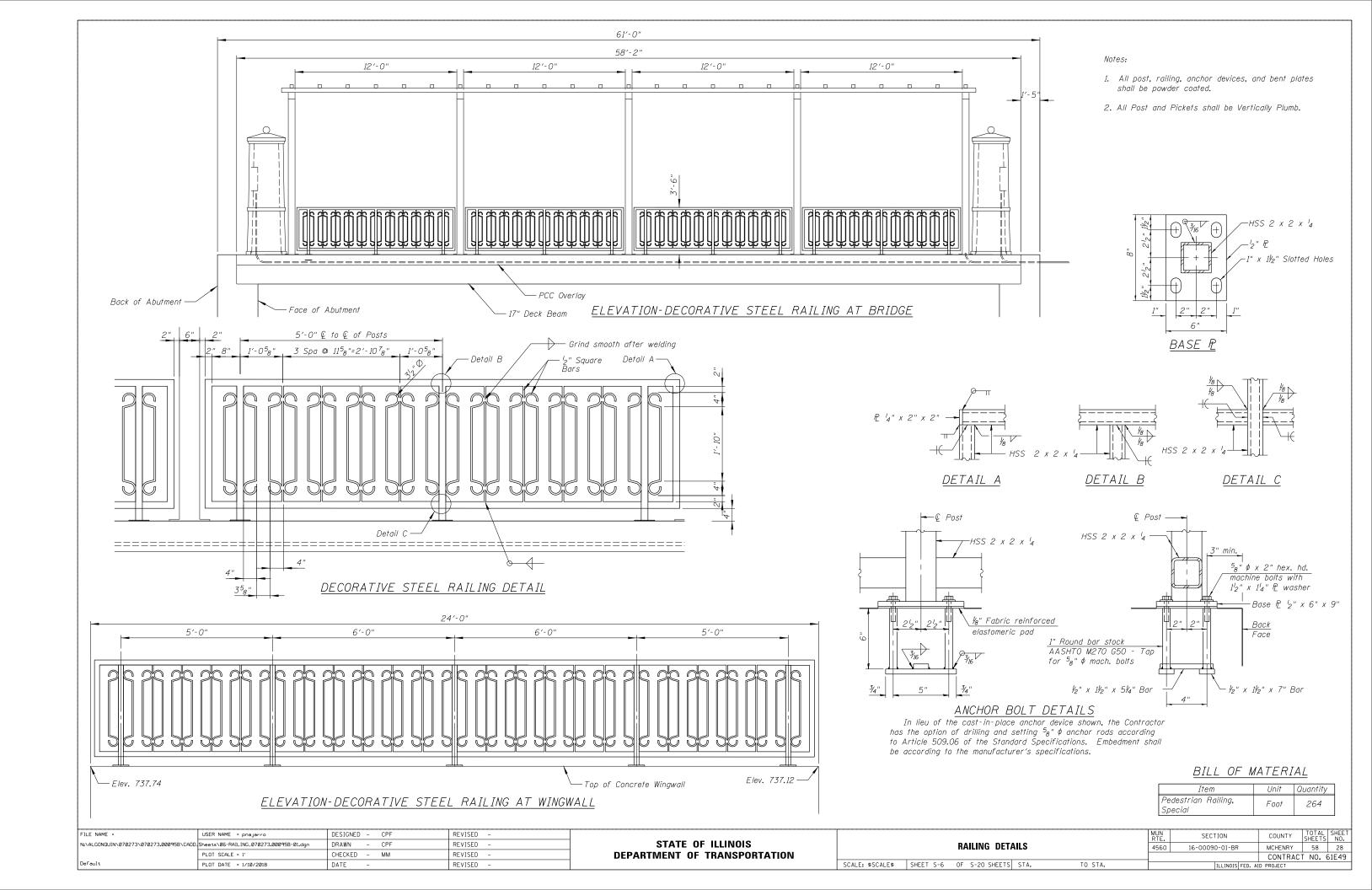
Bars indicated thus 1 x 2 - #4 etc. indicates 1 line of bars with 2 lengths per line.

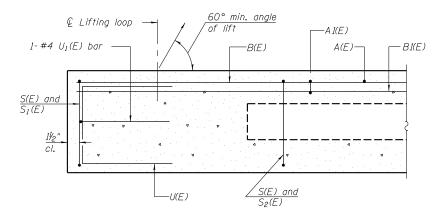
BAR D(E)

FILE NAME =	USER NAME = pnajarro	DESIGNED - CPF	REVISED -					MUN RTE	SECTION	COUNTY TOTAL SHEET
N:\ALGONQUIN\070273\070273.00095B\CADD	Sheets\05-SUPER-DET_070273.00095B.dgn	DRAWN - CPF	REVISED -	STATE OF ILLINOIS		SUPERSTRUCTURE DETAILS		4560	16-00090-01-BR	MCHENRY 58 27
	PLOT SCALE = 1'	CHECKED - MM	REVISED -	DEPARTMENT OF TRANSPORTATION						CONTRACT NO. 61E49
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -		SCALE: \$SCALE\$	SHEET S-5 OF S-20 SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT

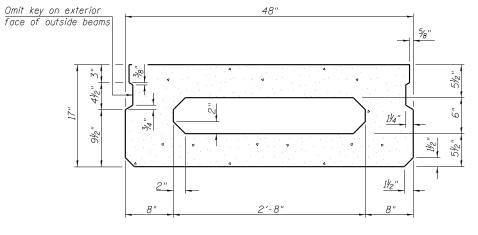
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	118	#4	29′-8"	
a1(E)	116	#4	6'-0"	
b(E)	198	#4	30′-2"	
(=)		"."	04.0"	
c(E)	118	#5	2'-2"	
c1(E)	59	#5	13'-0"	
c2(E)	59	#5	22'-4"	
	rcement	Bars,	Pound	9230
	Coated		7 00770	
Concre			Cu. Yd.	40.6
	tructure		00. 70.	
	te Wear	ing	Sg. Yd.	.388
Surfac			· ·	
Bar Sp	olicers		Ea.	59

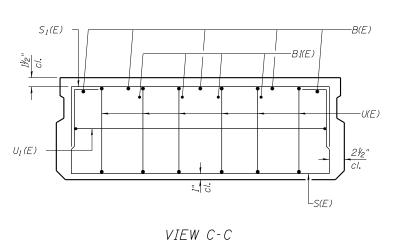


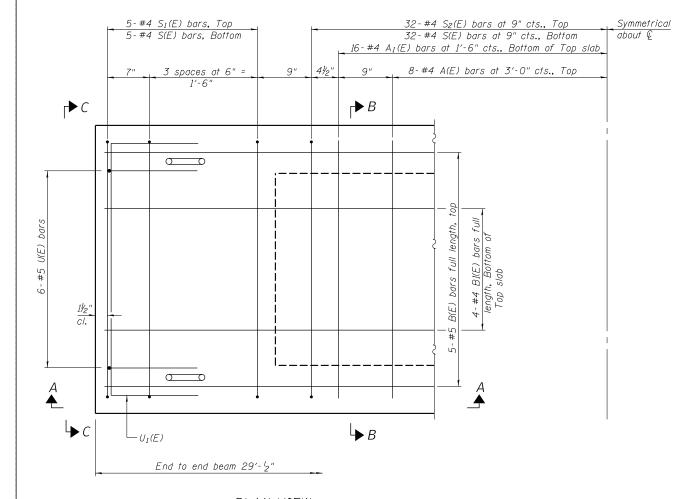


SECTION A-A



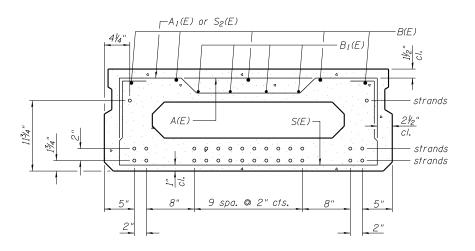
<u>SECTION B-B</u> (Showing dimensions)





PLAN VIEW

Note: Spacing of S(E) and $S_2(E)$ bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

- 6 Strands @ 1³4"
- 8 Strands @ 3³4"
- 2 Strands @ 11³4"

MINIMUM BAR LAP

#4 bar = 1'-11" #5 bar = 2'-6"

BAR LIST ONE BEAM ONLY (For information only)

ti di ilii di maridii diliyi								
Bar	No.	Size	Length	Shape				
A(E)	8	#4	#4 3'-7"					
A1(E)	16	#4	3′-10"					
B(E)	5	#5	28'-8"					
$B_1(E)$	4	#4	28′-8"					
S(E)	42	#4	6′-9"					
S ₁ (E)	10	#4	5′-3"					
S2(E)	32	#4	5′-6"]				
U(E)	12	#5	3'-8"					
$U_1(E)$	2	#4	6'-0"					

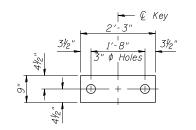
Note

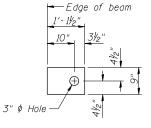
See sheet S8 of S18 for additional details and Bill of Material.

FILE NAME =	USER NAME = pnajarro	DESIGNED	-	CPF	REVISED	-	
N:\ALGONQUIN\070273\070273.00095B\CADD	Sheets\07-17X48-BEAM_070273.00095B-01.dgn	DRAWN	-	CPF	REVISED	-	
	PLOT SCALE = 1'	CHECKED	-	MM	REVISED	-	
Default	PLOT DATE = 1/10/2018	DATE	-		REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	4="	MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	17" x 48" PPC DECK BEAM					MCHENRY	58	29
						CONTRAC	NO. 6	61E49
SCALE: \$SCALE\$	SHEET S-7 OF S-20 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



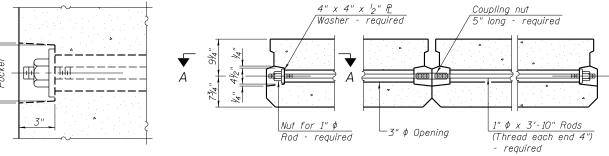


FABRIC BEARING PAD (Interior)

FABRIC BEARING PAD

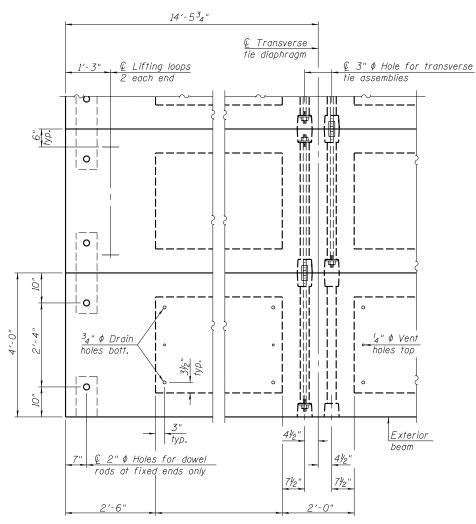
FIXED

Notes: All bearing pads shall be 1" thick. Omit holes when using expansion bearings. Expansion bearing pad shall be bonded to the substructure.



SECTION A-A





PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

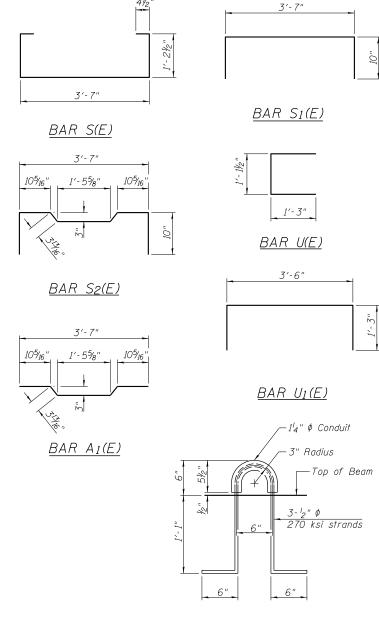
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be l_2 " and the nominal cross-sectional area shall be 0.153 sq. in.

The I" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two 18" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2^l_2 " ϕ lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



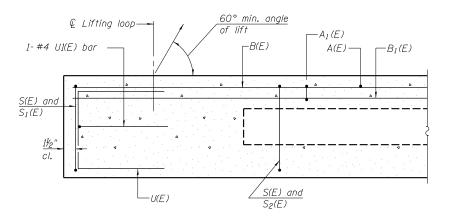
LIFTING LOOP DETAIL

BILL OF MATERIAL

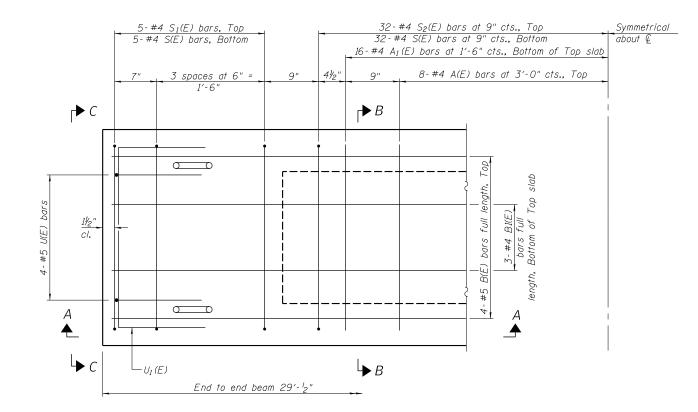
Precast Prestressed Sq. Ft. 2792 Conc. Deck Bms. (17" depth)

FILE NAME =	USER NAME = pnajarro	DESIGNED	-	CPF	REVISED	-	
N:\ALGONQUIN\070273\070273.00095B\CADD.	Sheets\08-17X48-BEAM_070273.00095B-02.dgn	DRAWN	-	CPF	REVISED	-	STATE OF II
	PLOT SCALE = 1'	CHECKED	-	MM	REVISED	-	DEPARTMENT OF TR
Default	PLOT DATE = 1/10/2018	DATE	-		REVISED	-	

	MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17" x 48" PPC DECK BEAM DETAILS	4560	16-00090-01-BR	MCHENRY	58	30
			CONTRAC	T NO. 6	61E49
SCALE: \$SCALE\$ SHEET S-8 OF S-20 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

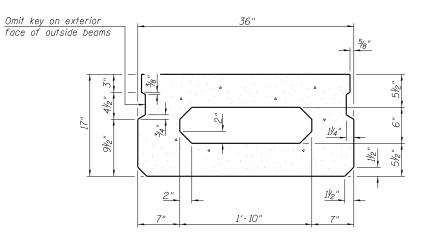


SECTION A-A

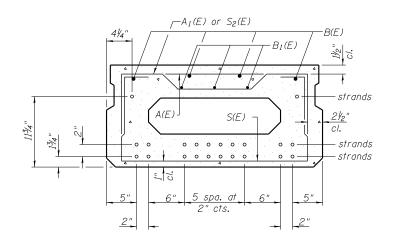


PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



<u>SECTION B-B</u> (Showing dimensions)



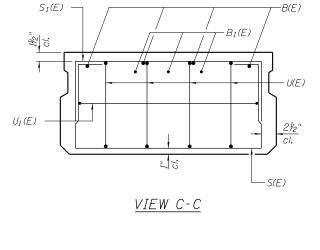
SECTION B-B

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

- 4 Strands @ 1³4"
- 6 Strands @ 3³4"
- 2 Strands @ 11³4"

MINIMUM BAR LAP #4 bar = 1'-11" #5 bar = 2'-6"

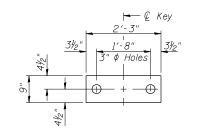


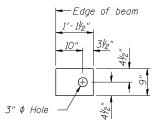
<u>BAR LIST</u> <u>ONE BEAM ONLY</u>

		(For	informat	ion only)	
Bo	ar .	No.	Size	Length	Shape
A(l	E)	8	#4	2'-7"	
A_1	(E)	16	#4	2′-10"	}
B(E	Ξ)	5	#5	28′-8"	_
B_1	(E)	4	#4	28′-8"	
S(E	<u> </u>	42	#4	5′-9"	
S_1	(E)	10	#4	4'-3"	
S ₂	(E)	32	#4	4′-6"	[
U(E	E)	8	#5	3′-8"	П
U_1	(E)	2	#4	5′-0"	

Note: See sheet S10 of S18 for additional details and Bill of Material.

FILE NAME =	USER NAME = pnajarro	DESIGNED -	CPF	REVISED -							MUN RTF	SECTION	COUNTY	TOTAL	SHEET
N:\ALGONOUIN\070273\070273.00095B\CADD.	Sheets\09-17X36-BEAM_070273.00095B-01.dgn	DRAWN -	CPF	REVISED -	STATE OF ILLINOIS		17′	' x 36" PPC DI	ECK BEAM		4560	16-00090-01-BR	MCHENRY	58	31
	PLOT SCALE = 1'	CHECKED -	MM	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO. 6	1E49
Default	PLOT DATE = 1/10/2018	DATE -		REVISED -		SCALE: \$SCALE\$	SHEET S-9	OF S-20 SHEETS	S STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



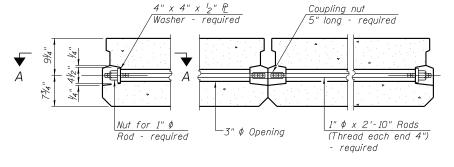


FABRIC BEARING PAD FABRIC BEARING PAD (Interior) (Exterior)

FIXED

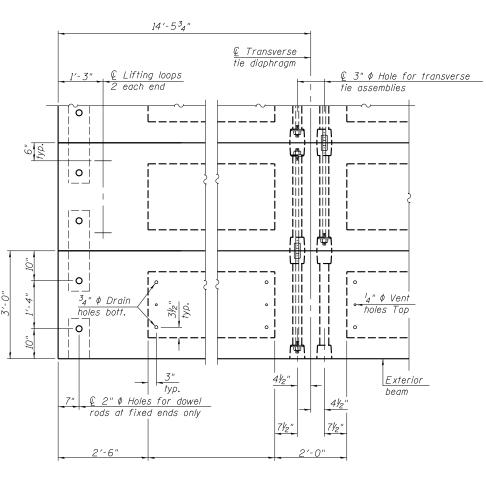
Notes:

All bearing pads shall be 1" thick. Omit holes when using expansion bearings. Expansion bearing pad shall be bonded to the substructure.



TYPICAL TRANSVERSE TIE ASSEMBLY

SECTION A-A



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

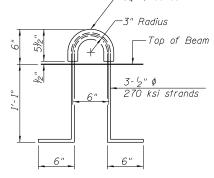
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be l_2 " and the nominal cross-sectional area shall be 0.153 sq. in. The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two $^{l}_{8}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2^l_2 " ϕ lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

2'-7" $BAR S_1(E)$ BAR S(E) 1'-05%" 1'-3" BAR U(E) BAR S2(E) 1'-05/8". $BAR\ U_1(E)$ BAR A1(E) *−1′*4" ¢ Conduit -3" Radius



LIFTING LOOP DETAIL

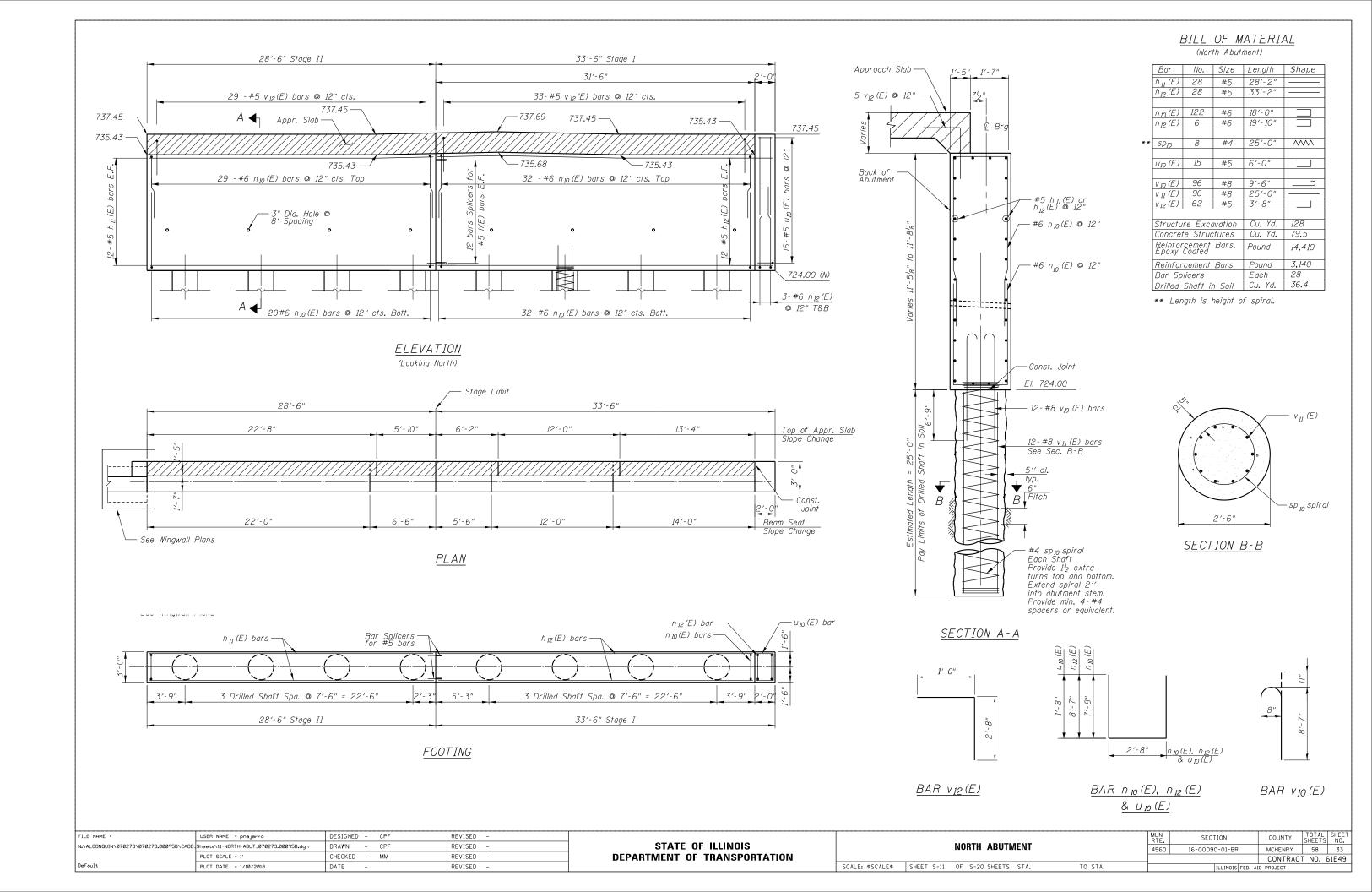
BILL OF MATERIAL

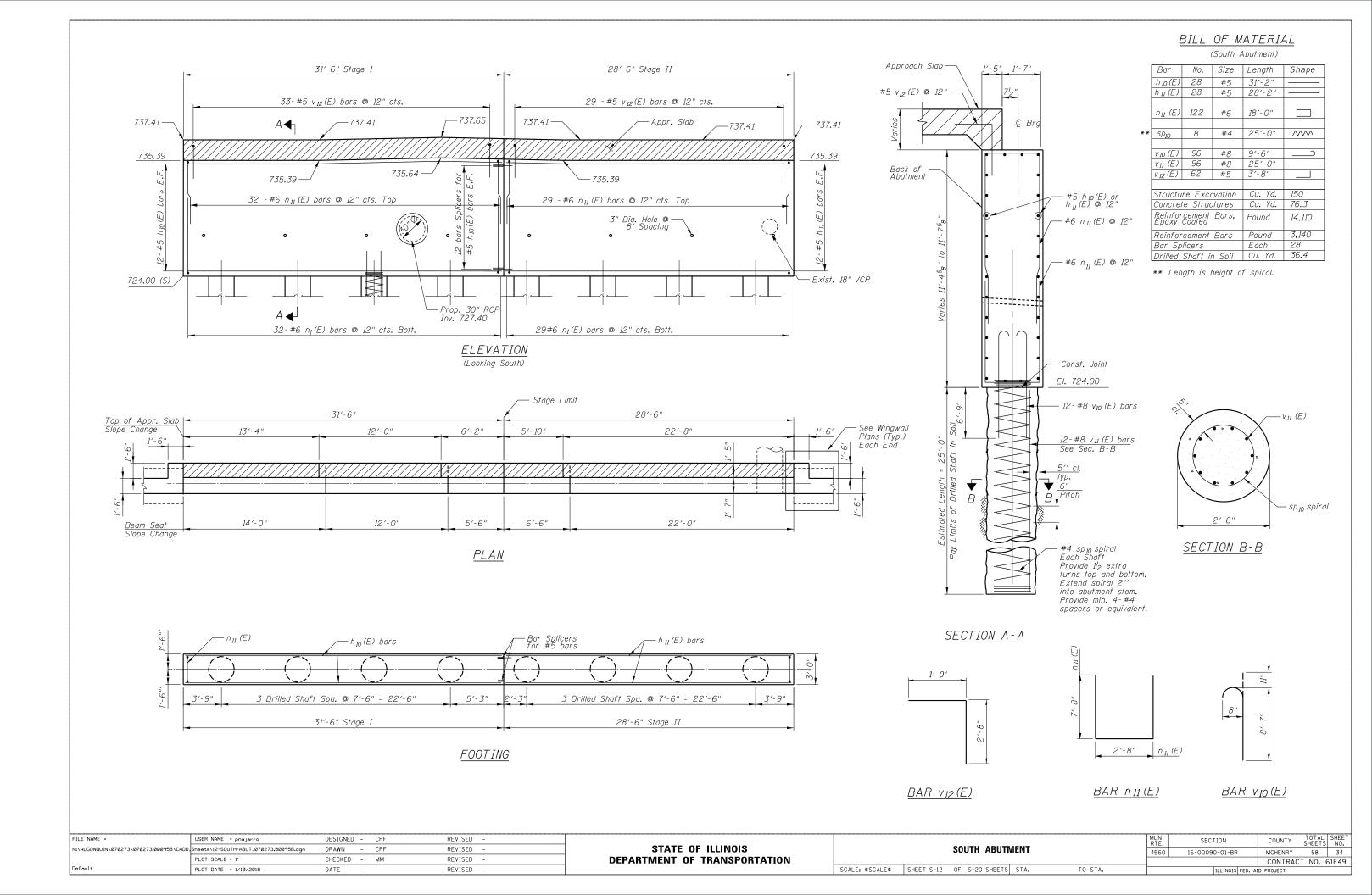
Preca	st Pre	estres.	sed		Sa	E+	698
Conc.	Deck	Bms.	(17"	depth)	34.	//.	090

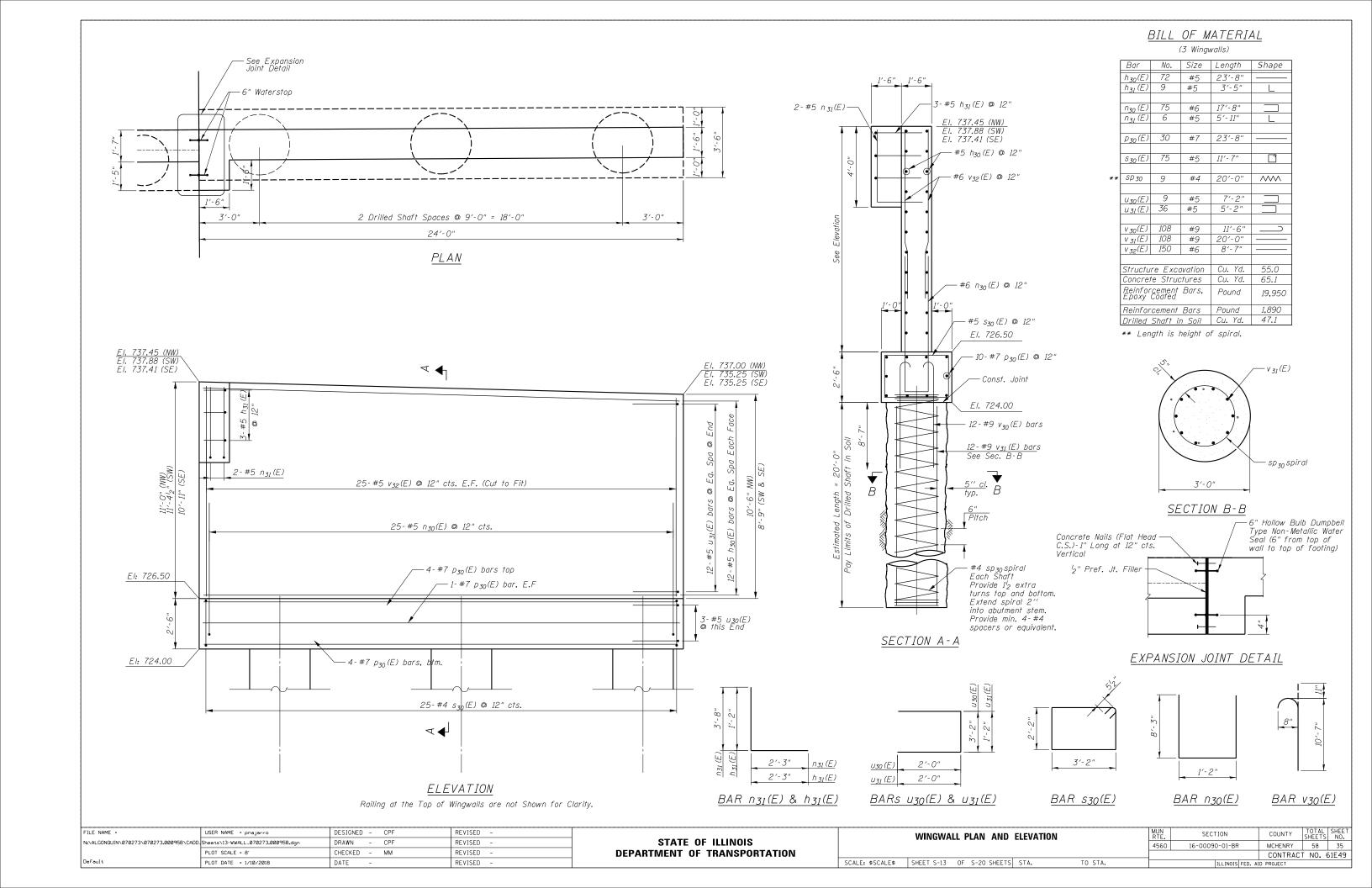
FILE NAME =	USER NAME = pnajarro	DESIGNED	-	CPF	REVISED	-
N:\ALGONQUIN\070273\070273.00095B\CADD.	Sheets\10-17X36-BEAM_070273.00095B-02.dgn	DRAWN	-	CPF	REVISED	-
	PLOT SCALE = 1'	CHECKED	-	MM	REVISED	-
Default	PLOT DATE = 1/10/2018	DATE	-		REVISED	-

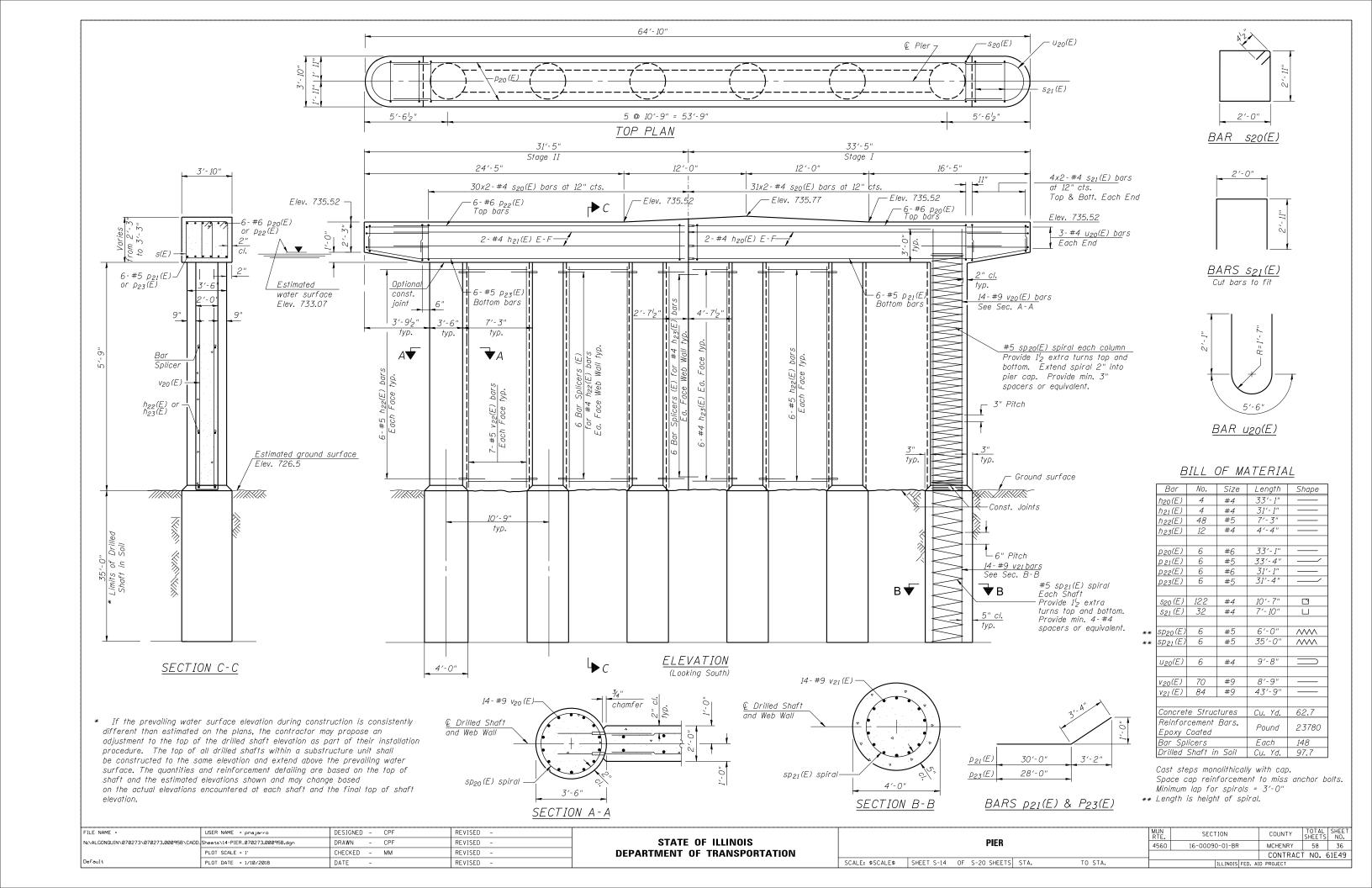
STATE OF ILLINOIS							
DEPARTMENT OF TRANSPORTATION							

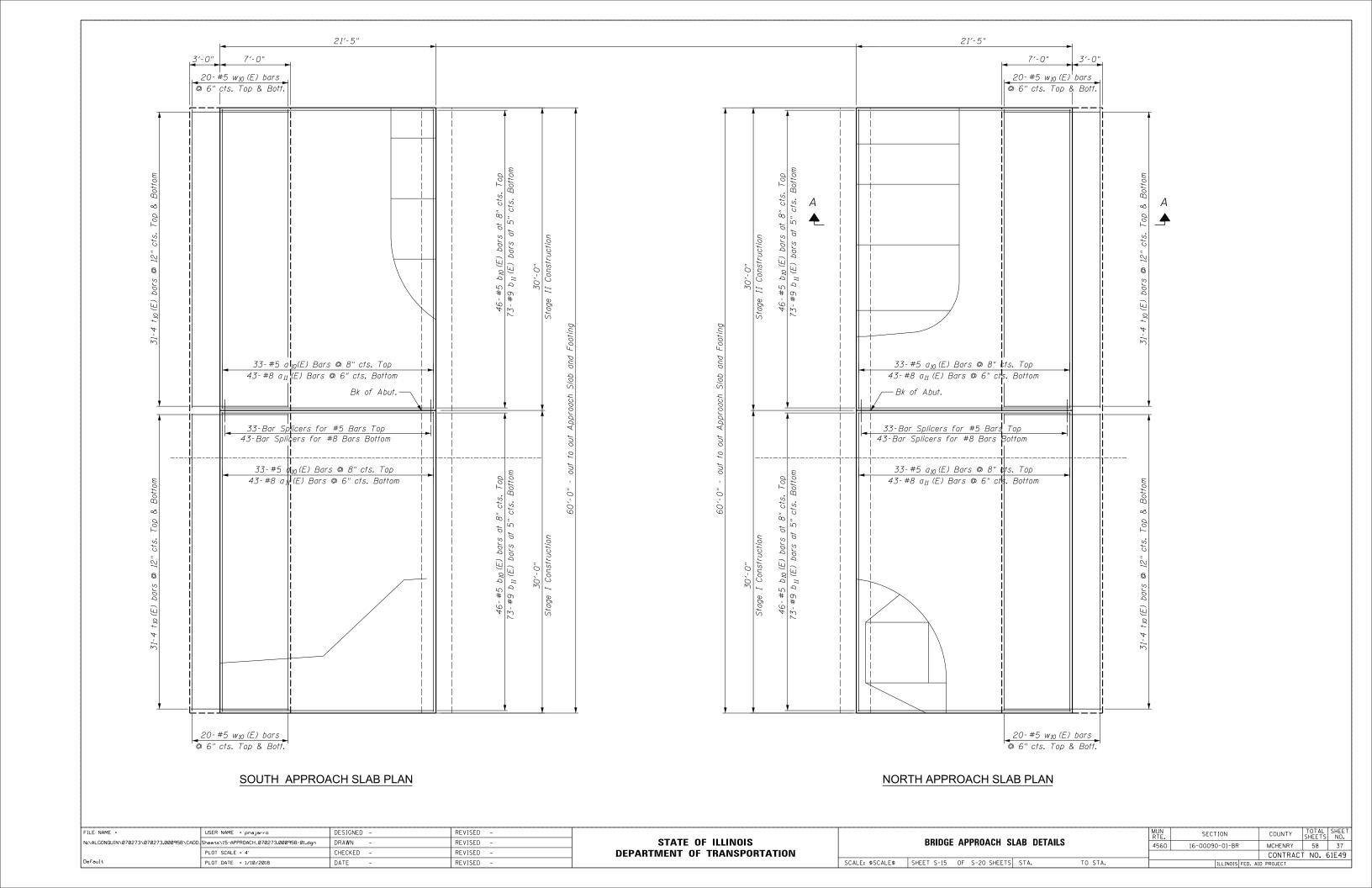
		4-11 0011 000 00011 0			MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		17" x 36" PPC DECK BEAM DETAILS		4560	16-00090-01-BR	MCHENRY	58	32	
							CONTRAC	T NO.	61E49
	SCALE: \$SCALE\$	SHEET S-10 OF S-20 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT			

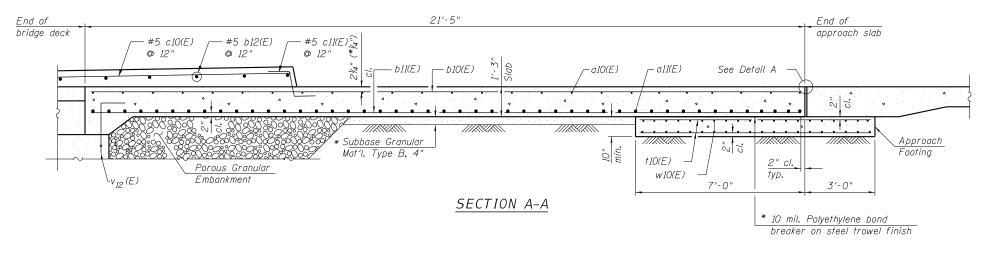












Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. Cost of excavation for approach footing included with Concrete Structures.

For Porous Granular Embankment and drainage treatment details, see sheet S2 of S20. See Civil Drawings for sidewalk grading details.

* Expansion joint. See Special Provisions Recess 1/4" minumum. Run out to out of curb * Expansion joint. See Special Provisions Recess 1/4" minumum. Run out to out of curb * Pavement Connector (PCC) * Joint

DETAIL A

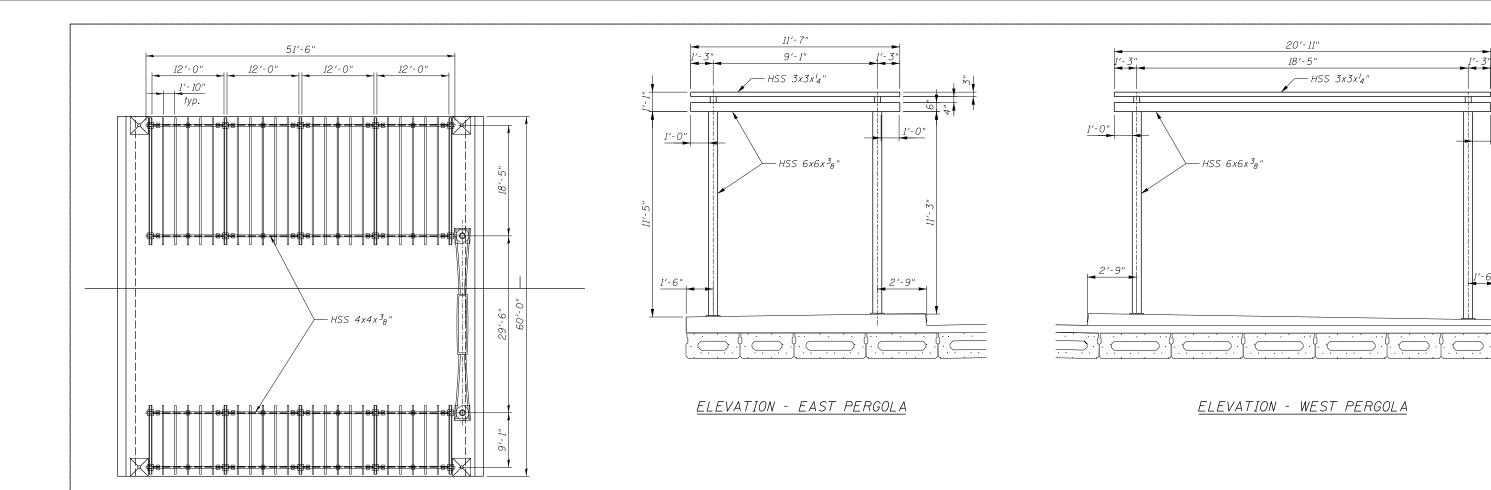
- * Cost included with Concrete Superstructure (Approach Slab).
- ** Per manufacturer recommendations

TWO APPROACHES BILL OF MATERIAL

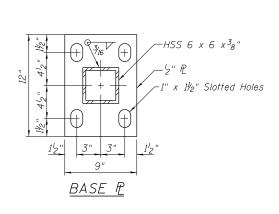
Bar	No.	Size	Length	Shape
a 10 (E)	132	#5	29′-8"	
a _{II} (E)	172	#8	29′-8"	
b ₁₀ (E)	184	#5	21'-1"	
b ₁₁ (E)	292	#9	21'-1"	
b 12(E)*	44	#5	22'-4"	
c 10(E)*	78	#5	10'-0"	
c ₁₁ (E)	68	#5	2'-2"	
t ₁₀ (E)	248	#4	9′-8"	
w 10 (E)	160	#5	29′-8"	
Concrete	Superstru	ıcture	Cu. Yd.	73.9
(Approact	Slab)		Cu. 70.	13.3
Concrete	Structure	s	Cu. Yd.	<i>18.</i> 5
Reinforce		5,	Pound	51,200
Ероху Со	ated		i ound	J1,200
Bar Splic	ers		Each	226
	-			

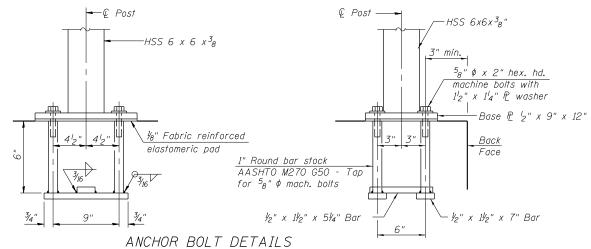
* Bars may need to be field bent or cut to fit ADA sidewalk dimensions

FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -			MUN	SECTION	COUNTY	TOTAL SHEET
N:\ALGONOUIN\070273\070273.00095B\CADD	Sheets\16-APPROACH_070273.00095B-02.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	BRIDGE APPROACH SLAB DETAILS	4560	16-00090-01-BR	MCHENRY	58 38
	PLOT SCALE = 1'	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRAC	T NO. 61E49
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -		SCALE: \$SCALE\$ SHEET S-16 OF S-20 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT	



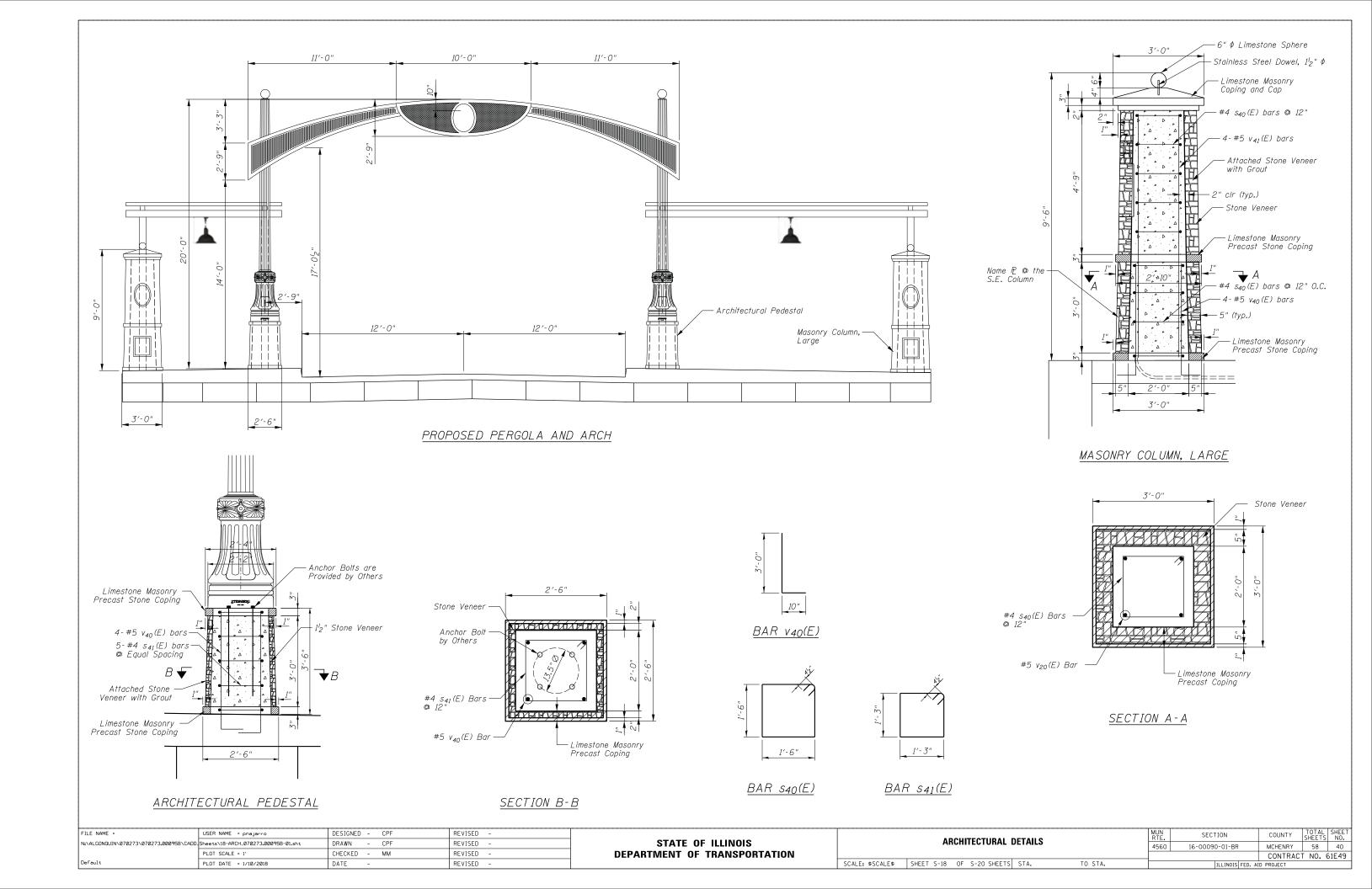






In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting $^5{}_8$ " ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -			RTE.	SECTION	COUNTY SHEETS NO.
N:\ALGONQUIN\070273\070273.00095B\CADD.	Sheets\17-PERGOLA_070273.00095B.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	PERGOLA SUPPORT	4560	16-00090-01-BR	MCHENRY 58 39
	PLOT SCALE = 1'	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 61E49
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -		SCALE: \$SCALE\$ SHEET S-15 OF S-20 SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT



	PROJECT	r NO.: 16391 LOG OF BOI treetscape Geotechnical Stage 1 (Part					V:		Algonquir	age 1 of 2
			1,				. –		ige of Algo	
SONII	NG LUCA	ATION: North Abutment		CLIE						nquin
(feet)	SOIL	Material Description	Elevation	TYPE/ INTERVAL	ON.	N-VALUE Blowe per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
0	****	Bituminous Concrete (1.75 inches)	737.2 737.0	SS	1	4	5			
		Base Course - Grey SAND and Gravel, A-1-a (4 inches) FILL - Brown SAND and Gravel, A-1-a	736.7	SS	2	5	18			
6 -		3 inch Coarse Gravel FILL - Black and Brown Silty CLAY,	/33./				10			
0		some Sand, some Gravel, A-6		SS	3	5				No recovery
		FILL: Grey Crushed Stone, little Silt, A-1-a	728.7	SS	4	19	9			
12-		wet, medium dense		SS	5	18	12	14		
		Grey SAND, little Gravel, trace Silt, A-3, dense to medium dense	723.7	- SS	6	28	15			
		A-3, delise to medium delise		SS	7	39	19			
18-		Grey SAND, some Gravel, trace Silt, A-1- a, medium dense	719.2	SS	8	10	10			
		possible Boulder		SS	9					drilled past sam
24 -		Grey CLAY, little Sand, trace Gravel A-6(7), hard to very stiff	714.2	-SS	10	14	14		4.5 + Op	
				SS	11	13	13		2.52	
30				SS	12	9	15		2.60	
				SS	13	12	15		2.33	
36 -				-						
42-		Bluish-Grey CLAY, some Sand, trace Gravel, A-6, very stiff	699.2	SS	14	12	21		3.0 Qp	
(S	-	Light Grey Sandy LOAM, little Gravel, A-2-4, extremsly dense, hard pan	694.2	- SS	15	108	7			
URIN	G DRILLIN	OBSERVATIONS, ft. IG: 9.5' IFTER DRILLING:	D.	/ISE	Γ		LO	RING (STARTED COMPLETED BY: METHOD:	7/18/16 7/18/16 GPF HSA

ISET PROJEC	T NO.: 16391 LO	G OF BORI	NG	NO	. B	B-1		1		ge 2 of 2
ROJECT: S	treetscape Geotechnical S	Stage 1 (Part 1)_	SITE	LOC	MIOITA	V: _		Algenquin	, Illinois
BORING LOCA	ATION: North Ab	utment	-	CLIEN	IT:			Villa	ge of Algon	quin
				SAMPLE				TE	STS	
SOIL TYPE	Material Description	n	Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARKS
48 -	Light Grey Silty LOAM, A-2-4, very to extremely pan with cobbles, bould	dense, hard		SS	16	73	8			
54 -				-SS	17	65	8			
- 60 –				SS	18	82	7	140		
	Grey Dolomitic LIMESTO medium bedded, intensi- fractured, highly to sligh weathered, moderately i	y to slightly itly	5.7	SS	19	50/ 1"	7			
66	waarata, maatatay .	iaid, Ed		NX.	1					REC = 100% RQD = 7%
72				NX	2					REC = 100% RQD = 53%
78				NX	3					REC = 100% RQD = 75%
	End of Boring at 79.5'	65	7.7							
DURING DRILLIF	AFTER DRILLING	(A)),	ISE			BO LO	RING O	TARTED: COMPLETED BY: METHOD:	7/18/16 - 7/18/16 - GPF - HSA

Mi	dland Standard Engineering	& Testing, Inc.	. 558 Plate Drive Unit	6. East Dundee, L 6011	18 (847) 844-1895	f(647) 844-3875

		NO.: 16391 LOG OF BO reetscape Geotechnical Stage 1 (Par								n, Illinois
		TION: South Abutment		CLIE					ge of Algo	
			_		AMFL		_	77.77	STS	T
DEPTH (feet)	SOIL	Material Description	Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf	REMARK\$
0		Portland Cement Concrete with #8 Rebar (10 inches) VOID to 18 inches	737.1 736.3 735.6	SS	1	u			-0 0	drilled past samp
		Base Course - Brown SAND (f-c), A-3 FILL - Black Sandy CLAY to Clayey SAND, little Gravel, A-2-6	733.1	SS	2A 2B	4 5	6 10		1.0 Qp	100124000000000000000000000000000000000
6-		FILL - Dark Brown SAND (f-c), some Gravel, trace Clay, A-3, slightly		-	3	5	15	122	0.62	
		FILL - Reddish-Brown Silty CLAY, little Sand, trace Gravel, A-6, firm Black Sandy CLAY, trace fibers, A-7	728.6		5	6	42	122	C.5 Qp	
12-	₩	6 Grey SAND (f-m), little Gravel, wet, A-3, dense	724.6	SS	6	31	18			
18-		Grey CLAY, trace Sand, trace Gravel A-6(7), very stiff	, 721.1	SS	7	8	14	146	2.37	
				SS	8	8	13	108	2.33	
24-				SS	9	12	14	117	2.44 1.5 Qp	
- '				SS	11	18	13	121	3.18	
30-				SS	12	14	13	121	3.65	
				SS	13	16	10	127	4.66	
36-				- 55	13	10	13	127	4.00	
		Bluish-Grey CLAY, little Sand, trace	698.	SS	14	19	16	123	4.15	
42-		Gravel, A-6, hard	80.	-						
		Grey SAND (f-c), little Gravel, wet, A- 3, medium dense	694.	- SS	15	20	10			
DURING	G DRILLIN	DBSERVATIONS, ft. IG: \$\forall \text{12.5}' \\ IFTER DRILLING: \$\forall \text{11.0}' \\ ING AFTER \$\forall \text{11.0}'	0	MSE'	Т		BO LO	RING (STARTED: COMPLETE BY: METHOD:	D: 7/15/16 7/15/16 GPF HSA

Midland Standard Engineering & Testing, Inc. 558 Plate Drive Unit 6, East Dundee, IL 60118 (847) 844-1895 (847) 844-3875

FILE NAME =	USER NAME = pnajarro	DESIGNED	-	CPF	REVISED	-	Ī
:\ALGONQUIN\070273\070273.00095B\CADD Sheets\19-BLOGS_070273.00095B.dgn			-	CPF	REVISED	-	
	PLOT SCALE = 1'	CHECKED	-	MM	REVISED	-	
Default	PLOT DATE = 1/10/2018	DATE	-		REVISED	-	

			MUN RTE.	SECTION	COUNTY TOTA		FTS NO		
BORING LOGS					4560	16-00090-01-BR	MCHENRY	58	41
							CONTRAC	T NO.	61E49
SCALE: \$SCALE\$	LE: \$SCALE\$ SHEET S-19 OF S-20 SHEETS STA. TO STA.					ILLINOIS FED. AI	D PROJECT		

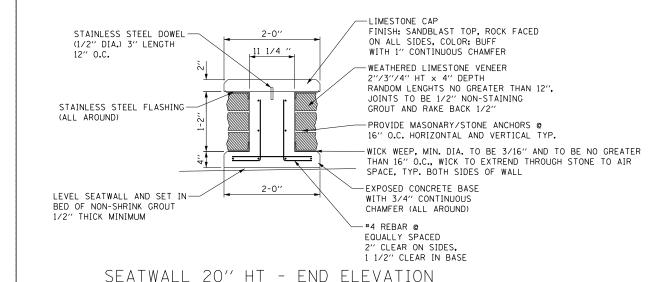
		NO.: 16391		F BORI						1		ge 2 of 2	
PROJE	CT: St	reetscape Geot	echnical Stage	1 (Part 1)_	SITE	LOC	ATIO	V:		Algonquin	Illinois	
BORIN	G LOCA	TION:	South Abutme	ent	-	CLIE	NT:			Villa	ige of Algon	quin	
	П					S.	AMPL	E	TESTS				
DEPTH (feet)	SOIL	Materi	al Description		Elevation	TYPE/ INTERVAL	NO.	N-VALUE Blows per ft.	We%	Dry Unit Weight, pcf	Unconfined Compressive Strength, 1sf	REMARKS	
48 -		A-2-4, mediu	ndy LOAM, little m dense	e Gravel,68	19.1	SS	16	19	10	141			
54-		hard pan with cobbles, extremely den				-SS	17	80/ 11'	9				
60 -					6.6	SS	18 19	41 82 11	8	134			
		possible Bould											
		5											
DURING	DRILLIN	OBSERVATIONS, ft. NG: AFTER DRILLING: ING AFTER	₩ 12.5' ₩ 11.0'			MSE'	Т		BO LO	RING (STARTED: COMPLETED BY: METHOD:	7/15/16 7/15/16 GPF HSA	

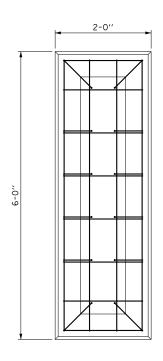
Midland Standard Engineering & Testing, Inc. 558 Plate Drive Unit 6, East Dundee, IL 60118 [847] 844-1895 ((847) 144-3875

Default	PLOT DATE = 1/10/2018	DATE -	REVISED -	
	PLOT SCALE = 1'	CHECKED - MM	REVISED -	D
N:\ALGONQUIN\070273\070273.00095B\CADD	Sheets\20-BL0GS_070273.00095B.dgn	DRAWN - CPF	REVISED -	
FILE NAME =	USER NAME = pnajarro	DESIGNED - CPF	REVISED -	

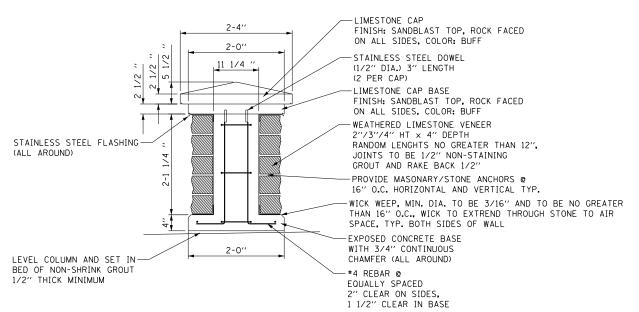
STATE OF	ILLINOIS
DEPARTMENT OF T	RANSPORTATION

					MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BORING LOGS				4560	16-00090-01-BR	MCHENRY	58	42	
							CONTRAC	T NO. (61E49
SCALE: \$SCALE\$	SHEET S-20 0	F S-20 SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		

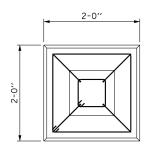




SEATWALL 20" HT - BASE PLAN



MASONRY COLUMN, SMALL - ELEVATION



MASONRY COLUMN, SMALL - BASE PLAN

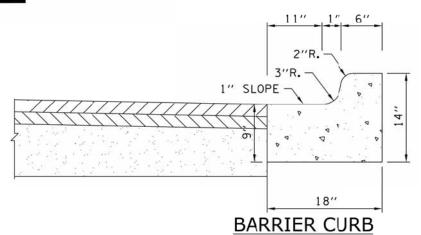
SCALE:

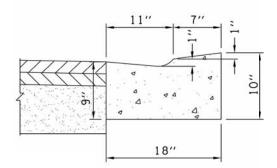
Default	PLOT DATE = 1/11/2018	DATE	-	REVISED	-	
	PLOT SCALE = 1'	CHECKED	-	REVISED	-	
N:\ALGONQUIN\070273\070273.00095B\CADD	Sheets\D161E49-sht-det-01.dgn	DRAWN	-	REVISED	-	
FILE NAME =	USER NAME = mworman	DESIGNED	-	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN STREET BRIDGE OVER CRYSTAL CREEK					MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROJECT DETAILS				4560	16-00090-01-BR	MCHENRY	58	43	
						CONTRAC	T NO. 6	51E49	
SHEET	OF	SHEETS	STA.	TO STA.		ILL INOIS FED. AT	D. PROJECT		







DEPRESSED CURB

NOTES:

- EXPANSION JOINTS SHALL BE CONSTRUCTED ACCORDING TO EXPANSION JOINT DETAIL.
- 2. CONSTRUCTION JOINTS SHALL BE SAWCUT TO A DEPTH OF $^1/_2$ THICKNESS OF CURB EVERY 10 FEET (MAXIMUM).
- 3. CONCRETE SHALL BE IDOT CLASS PV 3500 PSI@ 14 DAYS, 3" SLUMP, 6% AIR ENTRAINED.
- 4. PROTECTIVE COAT SHALL BE APPLIED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION 420.18 AS DIRECTED BY THE VILLAGE.
- 5. SEE VILLAGE OF ALGONQUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.

CONTACT MR. SHAWN HURTIG, PROJECT MANAGER AT (847) 658-2700 X 4403 OR SHAWNHURTIG@ALGONOUIN.ORG FOR APPROVED PRODUCT LIST

B6.12 CURB & GUTTER

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL

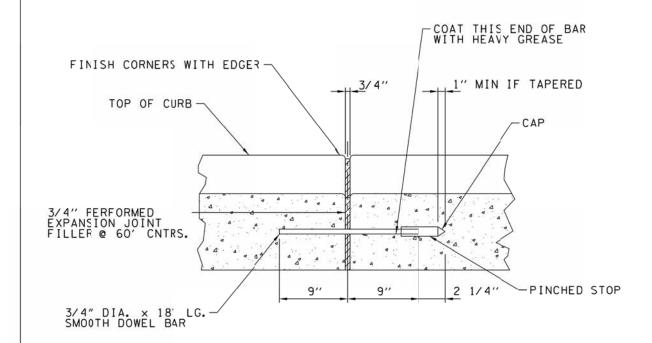
Revision Date 8/13/2015

Approved By: Shawn M. Hurtig

Effective Date 05/01/2015



VILLAGE OF ALGONGUIN PUBLIC WORKS DEPARTMENT 110 MEYER DRIVE ALGONQUIN, IL 60102-2442 PH: 847-658-2754 FK: 847-658-2759 WWW.ALGONQUIN.CRG



NOTES:

SCALE:

- 1. ALL EXPANSION JOINTS SHALL BE PROVIDED WITH (2) 3/4" DIA.X 18" LONG COATED SMOOTH DOWEL BAR CONFORMING TO ARTICLE 442.06 OF THE IDOT STANDARD SPECIFICATIONS. THE DOWEL BAR SHALL BE FITTED WITH A CAP HAVING A PINCHED STOP THAT WILL PROVIDE 1" OF EXPANSION.
- 2. EXPANSION JOINTS SHALL BE CONSTRUCTED AT 60 FOOT INTERVALS, AT ALL POINTS OF TANGENCY, AT THE END OF EACH DAYS PLACEMENT, OR 5' ON EITHER SIDE OF A STRUCTURE CASTING THAT FALLS WITHIN THE CURB LINE.

CURB EXPANSION JOINT

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL Revision Date 8/13/2015

Approved By: Shawn M. Hurtig

Effective Date 05/01/2015

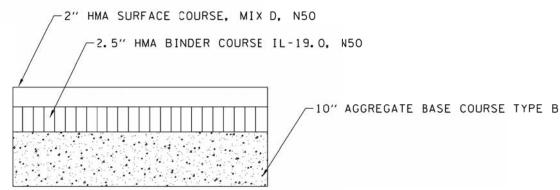
FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -	
N:\ALGONQUIN\070273\070273.00095B\CADD.	Sheets\D161E49-sht-lad-01.dgn	DRAWN -	REVISED -	
	PLOT SCALE = 20'	CHECKED -	REVISED -	
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

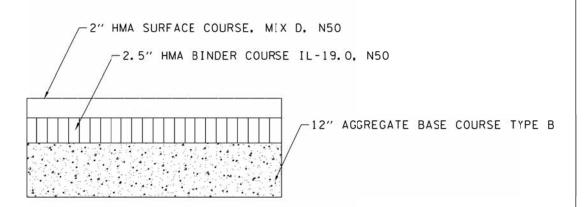
MAIN		GE OVER AGENCY		CREEK		
SHEET	OF	SHEETS	STA.		ТО	STA.

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
1560	16-00090-01-BR	MCHENRY	58	44
		CONTRAC	Γ NO. (51E49
	THE INOIS SED. A	LID DDO IECT		

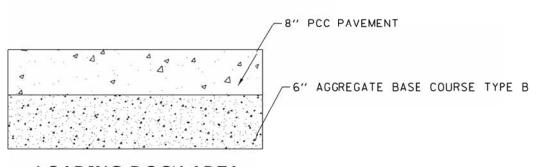




TYPICAL LOT DESIGN



HEAVY DUTY/TRUCK TRAFFIC AREAS



LOADING DOCK AREA

PARKING LOT PAVEMENTS

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL

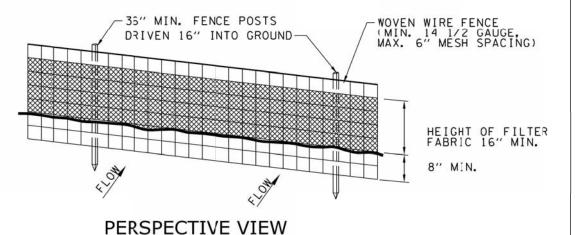
Revision Date 8/13/2015

Approved By: Shawn M. Hurtig

Effective Date 05/01/2015



VILLAGE OF ALGONGUIN
PUBLIC WORKS DEPARTMENT
110 MEYER DRIVE
ALGONQUIN, IL 60102-2442
PH: 847-658-2754
FK: 847-658-2759
WWW.ALGONQUIN.CRG



WOVEN WIFE FENCE (14 1/2 CAUGE MIN.. MAX. 6" NESH SPACING) WITH WOVEN GEOTEXTILE FILTER FABRIC OVER. EMBED FILTER FABRIC MIN. 8" INTO GROUND & BACKFILL SECTION

NOTES:

- 1. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 2. FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- 3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE OR WHEN COLLECTED SOIL HAS REACHED A DEPTH OF 1/2 THE FAERIC HEIGHT.
- 5. SEE VILLAGE OF ALGONOUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.

SILTATION CONTROL FENCE

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL Revision Date 8/13/2015

Approved By: Shawn M. Hurtig Effective Date 05/01/2015

CONTACT MR. SHAWN HURTIG, PROJECT MANAGER AT (847) 658-2700 X 4403 OR SHAWNHURTIG@ALGONOUIN.ORG FOR APPROVED PRODUCT LIST

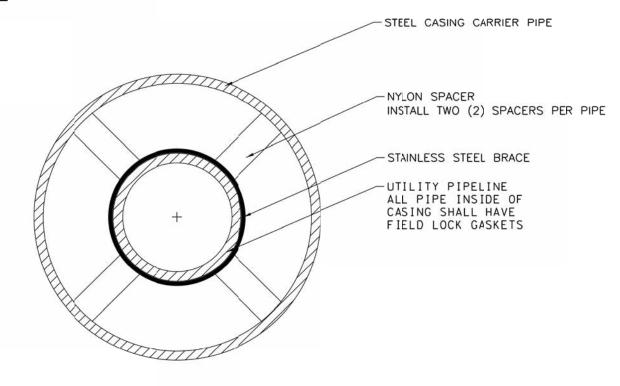
SCALE:

FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -	
N:\ALGONOUIN\070273\070273.00095B\CADD	Sheets\D161E49-sht-lad-01.dgn	DRAWN -	REVISED -	
	PLOT SCALE = 20'	CHECKED -	REVISED -	
Default.	PLOT DATE = 1/10/2018	DATE -	REVISED -	

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

MAIN ST BRIDGE OVER CRYSTAL CREEK						MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LOCAL AGENCY DETAILS					4560	16-00090-01-BR	MCHENRY	58	45	
	LUCAL AGENCY DETAILS							CONTRAC	T NO.	61E49
	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		





NOTES:

- 1. CASING PIPE SHALL BE MADE OF STEEL OF MINIMUM THICKNESS OF 1/2 INCH WITH MINIMUM YIELD STRENGTH OF 35,000 PSI CONFORMING TO ASTM A139 GRADE A WITH CONTINUOUS FIELD WELDED BUTT JOINTS IN CONFORMANCE WITH AWWA C206.
- ENDS OF CASING PIPE SHALL HAVE A PREFORMED RUBBER SEAL.
- ALL CARRIER PIPES INSIDE OF CASING SHALL HAVE RESTRAINED JOINTS.
- SEE VILLAGE OF ALGONOUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.

CONTACT MR. SHAWN HURTIG, PROJECT MANAGER AT (847) 658-2700 X 4403 OR SHAWNHURTIG@ALGONQUIN.ORG FOR APPROVED PRODUCT LIST

CASING PIPE

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL

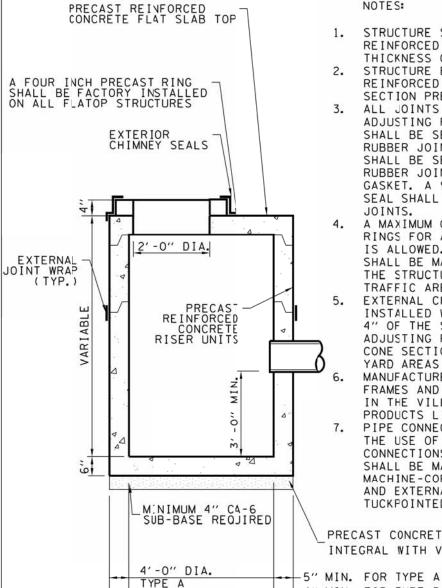
Revision Date 8/13/2015

Approved By: Shawn M. Hurtig

Effective Date 05/01/2015



VILLAGE OF ALGONGUIN PUBLIC WORKS DEPARTMENT 110 MEYER DRIVE ALGONQUIN, IL 60102-2442 PH: 847-658-2754 FK: 847-658-2759 WWW.ALGONQUIN.CRG



NOTES:

- 1. STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 4".
- STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
- ALL JOINTS BETWEEN PRECAST ELEMENTS. ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A 9" WIDE POLYETHYLENE EXTERNAL SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
- A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
- EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND 4" OF THE UPPER CONE SECTION EXCEPT FOR CATCH BASINS IN YARD AREAS USING TYPE 8 FRAMES. MANUFACTURER AND MODEL NUMBER FOR FRAMES AND GRATES SHALL BE AS SPECIFIED IN THE VILLAGE OF ALGONOUIN APPROVED
- PRODUCTS LIST. PIPE CONNECTIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS. CONNECTIONS TO EXISTING STRUCTURES SHALL BE MADE WITH THE USE OF MACHINE-CORED OPENINGS. THE INTERNAL AND EXTERNAL PIPE PENETRATIONS SHALL BE TUCKPOINTED.

PRECAST CONCRETE, BOTTOM CAST INTEGRAL WITH VERTICAL SECTION

CONTACT MR. SHAWN HURTIG, PROJECT MANAGER AT (847) 658-2700 X 4403 OR SHAWNHURTIG@ALGONQUIN.ORG FOR APPROVED PRODUCT LIST

SCALE:

CATCH BASIN TYPES A & B

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL Revision Date 8/13/2015

Approved By: Shawn M. Hurtig Effective Date 05/01/2015

FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -
N:\ALGONQUIN\070273\070273.00095B\CADD.	Sheets\D161E49-sht-lad-01.dgn	DRAWN -	REVISED -
	PLOT SCALE = 20'	CHECKED -	REVISED -
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

		MUN RTE.	SECTIO			
	LOCAL	AGENCY D	PIATI S		4560	16-00090-
	LUCAL	AGLINGI L	LIAILS			
CHEET	٥٢	CHEETC	CTA	TO CTA		1

4" MIN. FOR TYPE B

RTE.	SECT	TION			COUNTY	SHEETS	NO.
4560	16-0009	0-01-BR	!		MCHENRY	58	46
				CONTRAC	T NO. 6	51E49	
		ILLINOIS	FED.	ΑI	D PROJECT		



EXTERIOR CHIMNEY SEALS

2'-0" DIA.

MIN.

VARIABLE

NOTES:

- STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 4".
- 2. STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
- 3. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS. AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A 9" WIDE POLYETHYLENE EXTERNAL SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
- 4. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
- 5. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND 4" OF THE UPPER CONE SECTION EXCEPT FOR CATCH BASINS IN YARD AREAS USING TYPE 8 FRAMES.

6. MANUFACTURER AND MODEL NUMBER FOR FRAMES AND GRATES SHALL BE AS SPECIFIED IN THE VILLAGE OF ALGONOUIN APPROVED PRODUCTS LIST.

7. PIPE CONNECTIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS.
CONNECTIONS TO EXISTING STRUCTURES SHALL BE MADE WITH THE USE OF MACHINE-CORED OPENINGS. THE INTERNAL AND EXTERNAL PIPE PENETRATIONS SHALL BE TUCKPOINTED.

MINIMUM 4" CA-6 SUB-BASE REQUIRED

PRECAST CONCRETE BOTTOM CAST INTEGRAL
WITH VERTICAL SECTION

CONTACT MR. SHAWN HURTIG, PROJECT MANAGER AT (847) 658-2700 X 4403 OR SHAWNHURTIG@ALGONOUIN.ORG FOR APPROVED PRODUCT LIST

SPECIAL USE ONLY

CATCH BASIN TYPE C

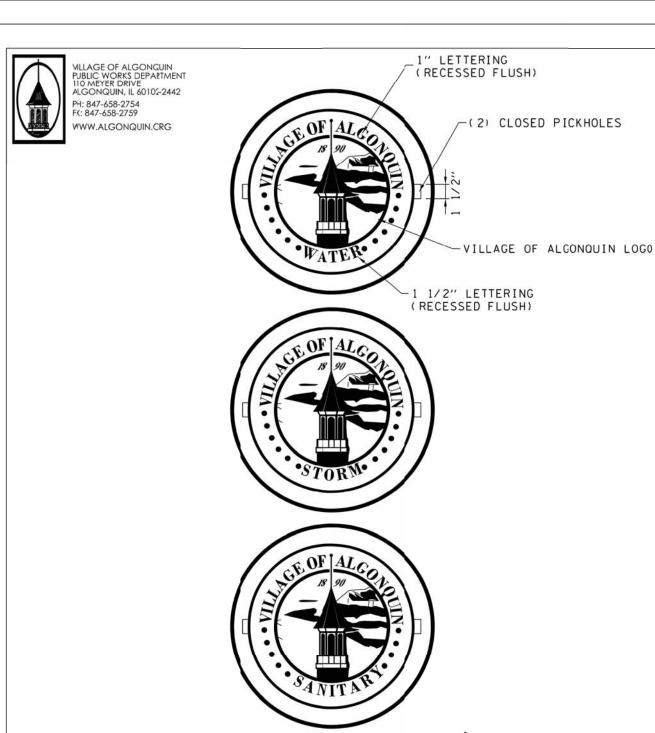
Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL

Revision Date 8/13/2015

Approved By: Shawn M. Hurtig

Effective Date 05/01/2015





NOTES:

- ALL LIDS SHALL HAVE SELF-SEALING GASKETS.
- 2. SEE VILLAGE OF ALGONOUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.

SCALE:

MANHOLE COVER W/LOGO

Village of Algonquin Specifications & Details Guide

By: CBBEL Revision Date 8/13/2015

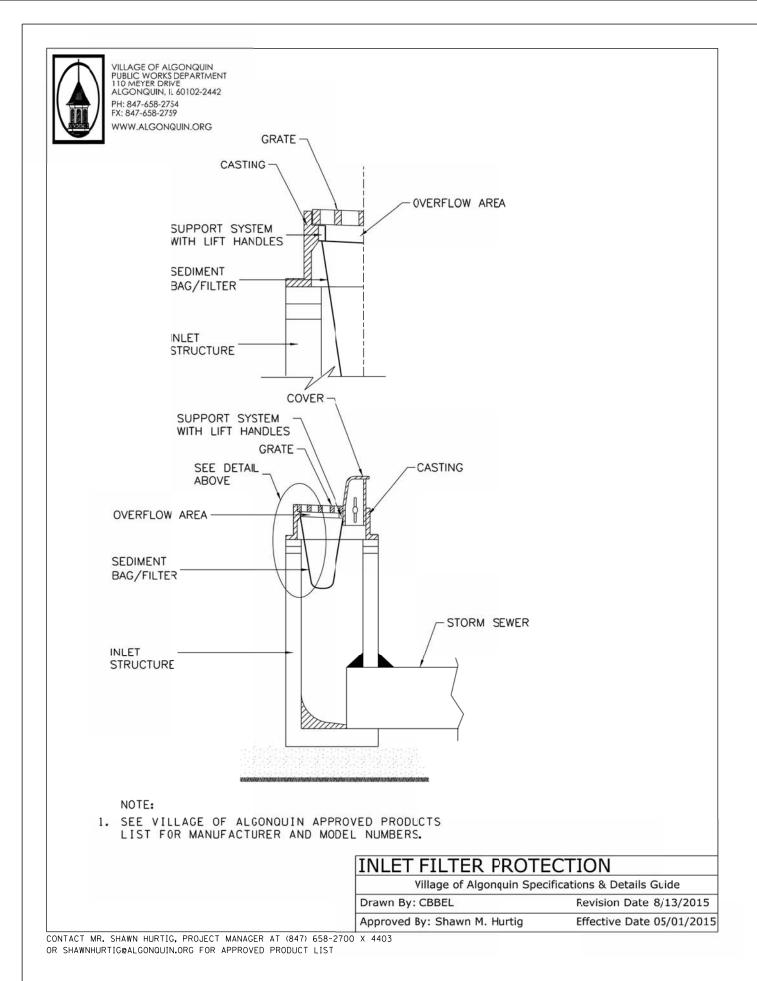
Drawn By: CBBEL Revision Date 8/13/2015
Approved By: Shawn M. Hurtig Effective Date 05/01/2015

CONTACT MR. SHAWN HURTIG, PROJECT MANAGER AT (847) 658-2700 X 4403 OR SHAWNHURTIG@ALGONQUIN.ORG FOR APPROVED PRODUCT LIST

FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -	Ī
N:\ALGONQUIN\070273\070273.00095B\CADD	Sheets\D161E49-sht-lad-01.dgn	DRAWN -	REVISED -	
	PLOT SCALE = 20'	CHECKED -	REVISED -	
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -	

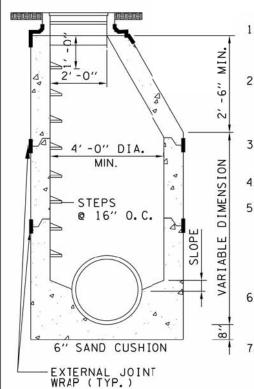
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

MAIN ST BRIDGE OVER CRYSTAL CREEK						SECTION	COUNTY	COUNTY TOTAL SHEETS		
LOCAL AGENCY DETAILS					4560	16-00090-01-BR	MCHENRY	58	47	
	LUCAL A	AGLING! I	LIAILS				CONTRACT	NO.	61E49	
SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT					

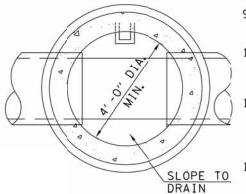




VILLAGE OF ALGONGUIN PUBLIC WORKS DEPARTMENT 110 MEYER DRIVE ALGONQUIN, IL 60102-2442 PH: 847-658-2754 FK: 847-658-2759 WWW.ALGONQUIN.CRG



PROFILE VIEW



NOTES:

- STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 5" FOR 4'-0" INSIDE DIAMETER AND 6" FOR 5'-0" INSIDE DIAMETER STRUCTURES.
- STRUCTURES SHALL BE 4'-0" INSIDE DIAMETER FOR MAIN SEWER 18" DIAMETER AND LESS, AND STRUCTURE DEPTH OF 20' OR LESS. STRUCTURES SHALL BE 5'-0" INSIDE DIAMETER FOR MAIN SEWER 21" DIAMETER AND LARGER, AND STRUCTURE DEPTH MORE THAN 20'.
- STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.
- ALL EXTERIOR SURFACES OF STRUCTURE SHALL HAVE A FACTORY APPLIED BITUMINOUS COATING.
 - ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL RUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL RUBBER JOINT SEALANT OR A RUBBER GASKET. A 9" WIDE POLYETHYLENE EXTERNAL SEAL SHALL BE APPLIED TO ALL STRUCTURE JOINTS.
 - STRUCTURE STEPS SHALL BE MADE OF STEEL REINFORCED PLASTIC USING AN APPROVED PLASTIC MEETING ASTM D4101, TYPE 11, GRADE 49108, OVER #3 GRADE 60, ASTM AG15 REINFORCING BAR. STEPS SHALL BE AT 16" CENTERS. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED TRAFFIC AREA.
 - EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS, AND 4" OF THE UPPER CONE SECTION.
- STRUCTURE LID SHALL HAVE A 1" CONCEALED PICKHOLE AND HAVE THE WORD "SANITARY" AND VILLAGE LOGO CASTINTO IT.
- O. THE RIM ELEVATION FOR STRUCTURES WITHIN THE FLOODPLAIN MUST BE SET 24" ABOVE THE BASE FLOOD ELEVATION. FRAME AND LID MUST BE WATER-TIGHT LOCK DOWN.
- PIPE CONNECTIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS AND FLEXIBLE MANHOLE COUPLINGS. CONNECTIONS TO EXISTING STRUCTURES SHALL BE MADE WITH THE USE OF MACHINE-CORED OPENINGS AND FLEXIBLE MANHOLE COUPLINGS.
- SEE VILLAGE OF ALGONOUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND MODEL NUMBERS.

PLAN VIEW

SCALE:

CONTACT MR. SHAWN HURTIG, PROJECT MANAGER AT (847) 658-2700 X 4403 OR SHAWNHURTIG@ALGONOUIN.ORG FOR APPROVED PRODUCT LIST

SANITARY MANHOLE

Village of Algonquin Specifications & Details Guide

Drawn By: CBBEL Revision Date 8/13/2015

Approved By: Shawn M. Hurtig Effective Date 05/01/2015

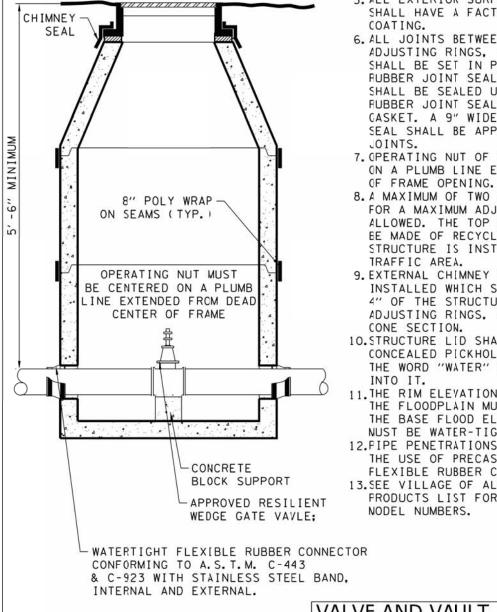
FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -
N:\ALGONQUIN\070273\070273.00095B\CADD.	Sheets\D161E49-sht-lad-01.dgn	DRAWN -	REVISED -
	PLOT SCALE = 20'	CHECKED -	REVISED -
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN	ST BRIDGE Local Ag			CREEK	
SHEET	OF	SHEETS	STA.	T	STA.



VILLAGE OF ALGONQUIN PUBLIC WORKS DEPARTMENT 110 MEYER DRIVE ALGONQUIN, IL 60102-2442



NOTES:

1. ALL VALVES MUST BE ENCLOSED IN A VAULT UNLESS OTHERWISE SPECIFIED.

2. STRUCTURE SHALL BE PRECAST REINFORCED CONCRETE WITH MINIMUM WALL THICKNESS OF 5" FOR 4'-0" INSIDE DIAMETER AND 6" FOR 5' -O" INSIDE DIAMETER STRUCTURES.

3. STRUCTURE SHALL BE 4' -0" INSIDE DIAMETER FOR 8" VALVES AND LESS. STRUCTURE SHALL BE 5' -0" INSIDE DIAMETER FOR 10" VALVES AND LARGER.

4. STRUCTURE BOTTOMS SHALL BE PRECAST REINFORCED CONCRETE WITH FIRST VERTICAL SECTION PRECAST INTEGRALLY WITH IT.

5. ALL EXTERIOR SURFACES OF STRUCTURE SHALL HAVE A FACTORY APPLIED BITUMINOUS

6. ALL JOINTS BETWEEN PRECAST ELEMENTS. ADJUSTING RINGS, AND MANHOLE FRAMES SHALL BE SET IN PLACE WITH A BUTYL FUBBER JOINT SEALANT. BARREL SECTIONS SHALL BE SEALED USING EITHER A BUTYL FUBBER JOINT SEALANT OR A RUBBER CASKET. A 9" WIDE POLYETHYLENE EXTERNAL SEAL SHALL BE APPLIED TO ALL STRUCTURE

7. OPERATING NUT OF VALVE MUST BE CENTERED ON A PLUMB LINE EXTENDED FROM CENTER OF FRAME OPENING.

8. A MAXIMUM OF TWO (2) ADJUSTMENT RINGS FOR A MAXIMUM ADJUSTMENT OF 8" IS ALLOWED. THE TOP ADJUSTMENT RING SHALL BE MADE OF RECYCLED RUBBER WHEN THE STRUCTURE IS INSTALLED IN A PAVED

9. EXTERNAL CHIMNEY SEALS SHALL BE INSTALLED WHICH SHALL CAPTURE AT LEAST 4" OF THE STRUCTURE FRAME, ALL OF THE ADJUSTING RINGS. AND 4" OF THE UPPER

10.STRUCTURE LID SHALL HAVE A TWO, 1" CONCEALED PICKHOLES AND HAVE THE WORD "WATER" AND VILLAGE LOGO CAST

11. THE RIM ELEVATION FOR STRUCTURES WITHIN THE FLOODPLAIN MUST BE SET 24" ABOVE THE BASE FLOOD ELEVATION. FRAME AND LID NUST BE WATER-TIGHT LOCK DOWN.

12. FIPE PENETRATIONS SHALL BE MADE WITH THE USE OF PRECAST OPENINGS AND FLEXIBLE RUBBER CONNECTORS.

13.SEE VILLAGE OF ALGONOUIN APPROVED PRODUCTS LIST FOR MANUFACTURER AND

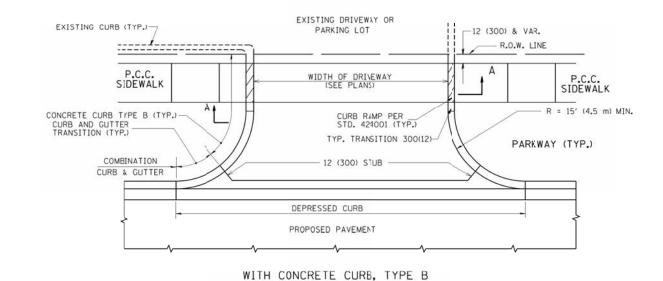
VALVE AND VAULT

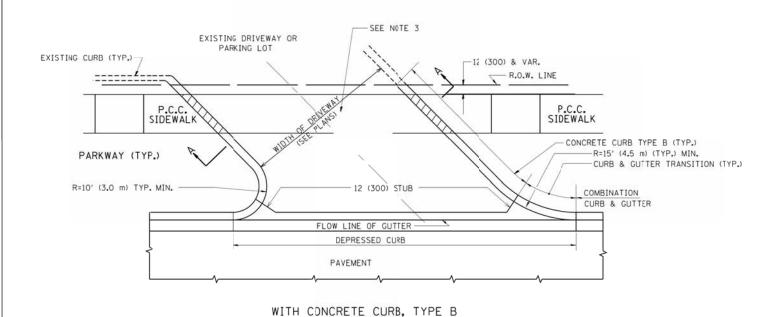
Village of Algonquin Specifications & Details Guide Drawn By: CBBEL Revision Date 8/13/2015

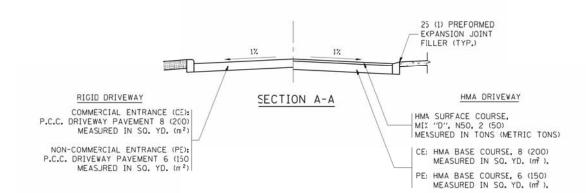
Approved By: Shawn M. Hurtig Effective Date 05/01/2015

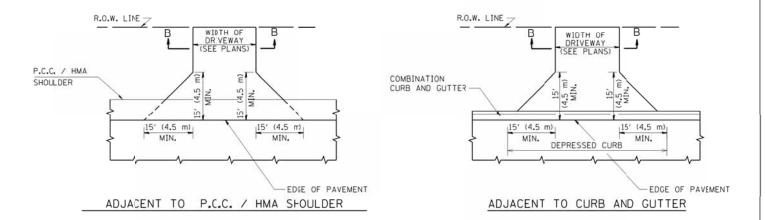
CONTACT MR. SHAWN HURTIG, PROJECT MANAGER AT (847) 658-2700 X 4403 OR SHAWNHURTIG@ALGONQUIN.ORG FOR APPROVED PRODUCT LIST

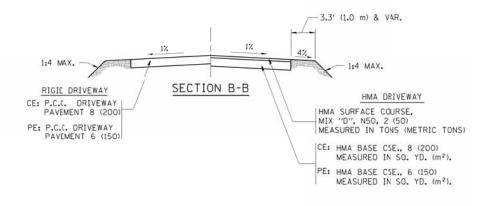
FILE NAME =	USER NAME = pnajarro	DESIGNED -	REVISED -			MAIN S	T BRIDG	OVER C	RYSTAL CR	EEK	RTE.	SECTION	COUNTY	SHEETS	'YO'.
N:\ALGONOUIN\070273\070273.00095B\CADD.	Sheets\D161E49-sht-lad-01.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS							4560	16-00090-01-BR	MCHENRY	58	49
	PLOT SCALE = 20'	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			LOCAL A	GENCY D	E I AILS				CONTRAC	T NO. 616	:49
Default	PLOT DATE = 1/10/2018	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		











RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SO. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE EACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWA'S SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

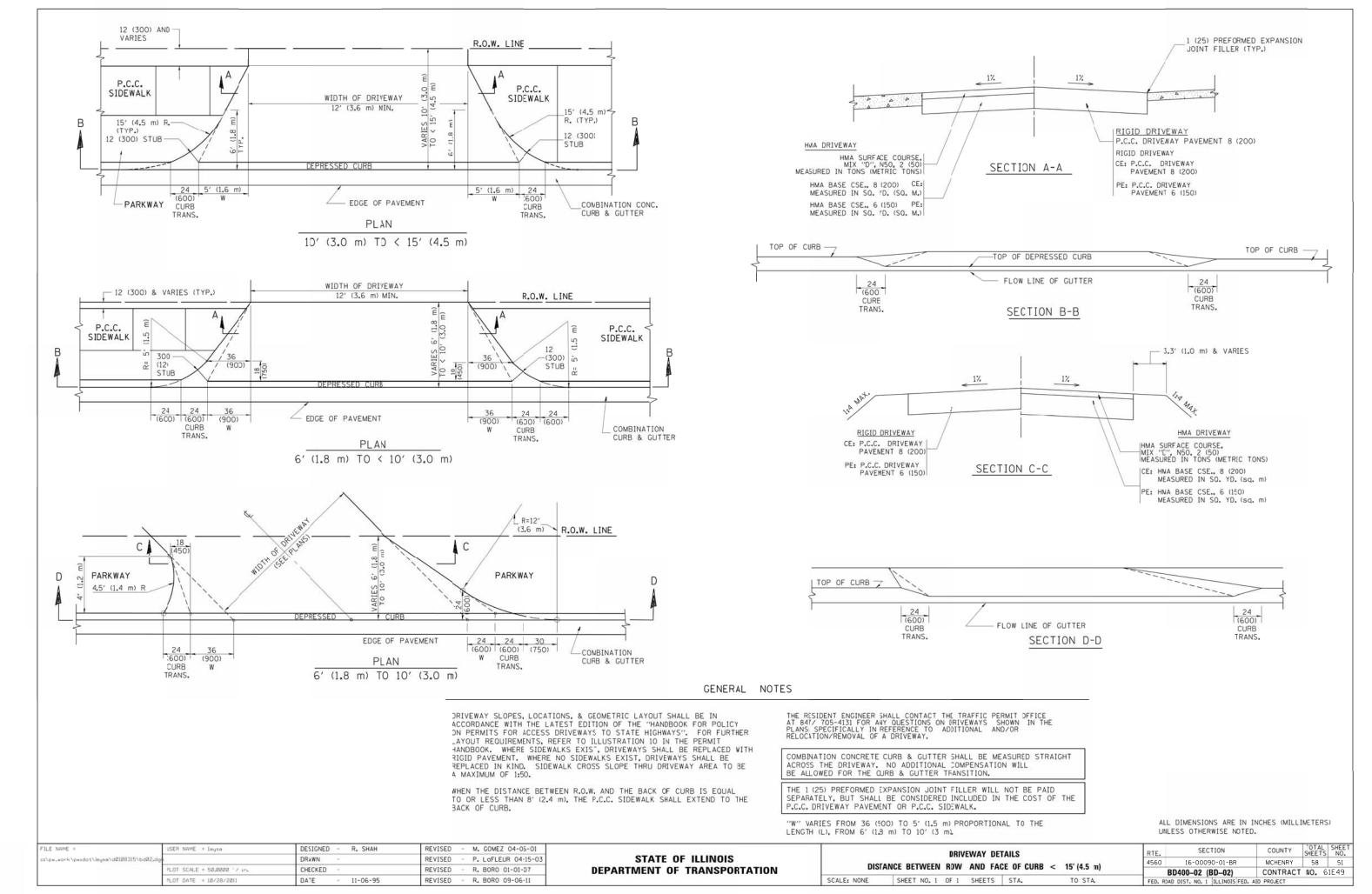
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

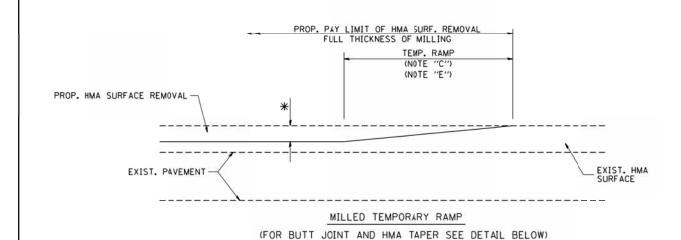
SCALE: NONE

FILE NAME =	USER NAME = leysa	DESIGNED - R. SHAH	REVISED - P. LoFLUER 04-15-03
c:\pw_work\pwidot\leysa\d0108315\bd01.dgr		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.0000 '/ in.	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

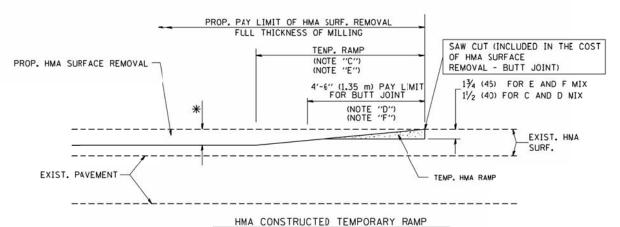
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.	RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
ND FACE OF CURB & EDGE OF SHOULDER > = 15' (4.5 m)	4560	16-00090-01-BR	MCHENRY	58	50
TO FACE OF CORB & EDGE OF SHOOLDER > = 15 (4.5 III)	В	BD0156-07 (BD-01)	CONTRACT	NO. 6	1E49
SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROA	AD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		





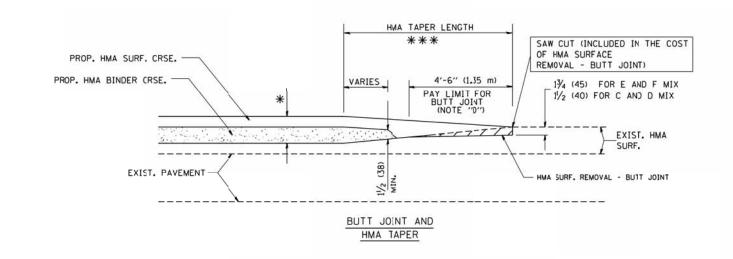
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

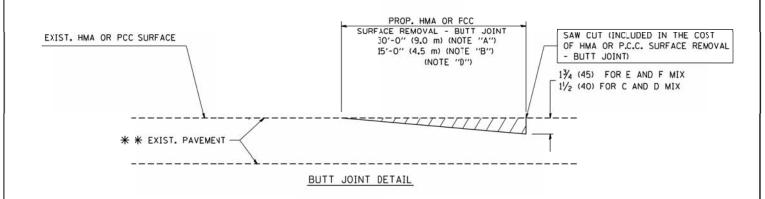
FILE NAME = gaglionobt DESIGNED - M. DE YOR REVISED - R. SHAH 10-25-94

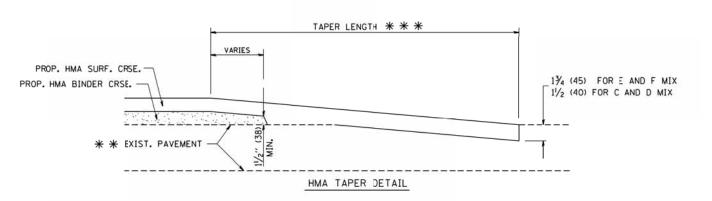
Windistatd 22x34 bd32.dgn

PLOT SCALE = 50.0000 '/ IN. CHECKED - REVISED - M. GOMEZ 04-06-01

PLOT DATE = 1/4/2008 DATE - 06-13-90 REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

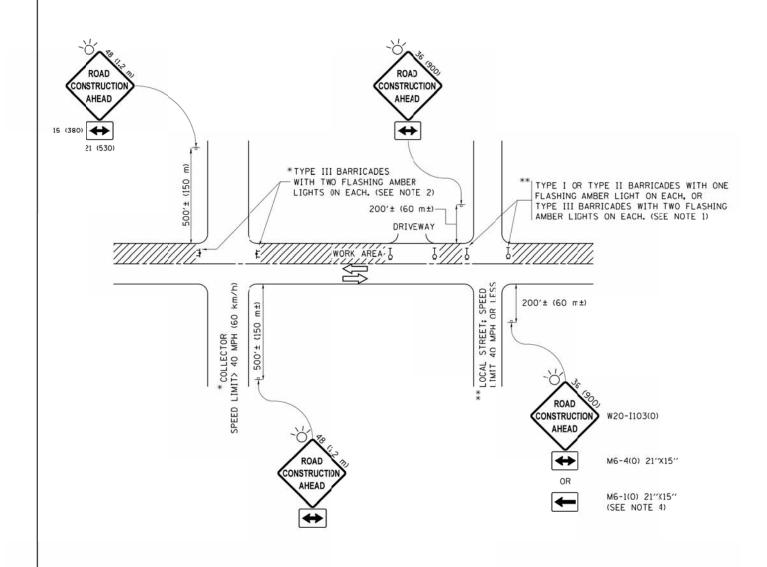
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- : MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- * * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE " λ ") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE " δ ")

BASIS OF PAYMENT:

THE BUTT JOINT WILL 3E PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER)
FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

SCALE: NONE

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



NOTES:

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

SCALE: NONE

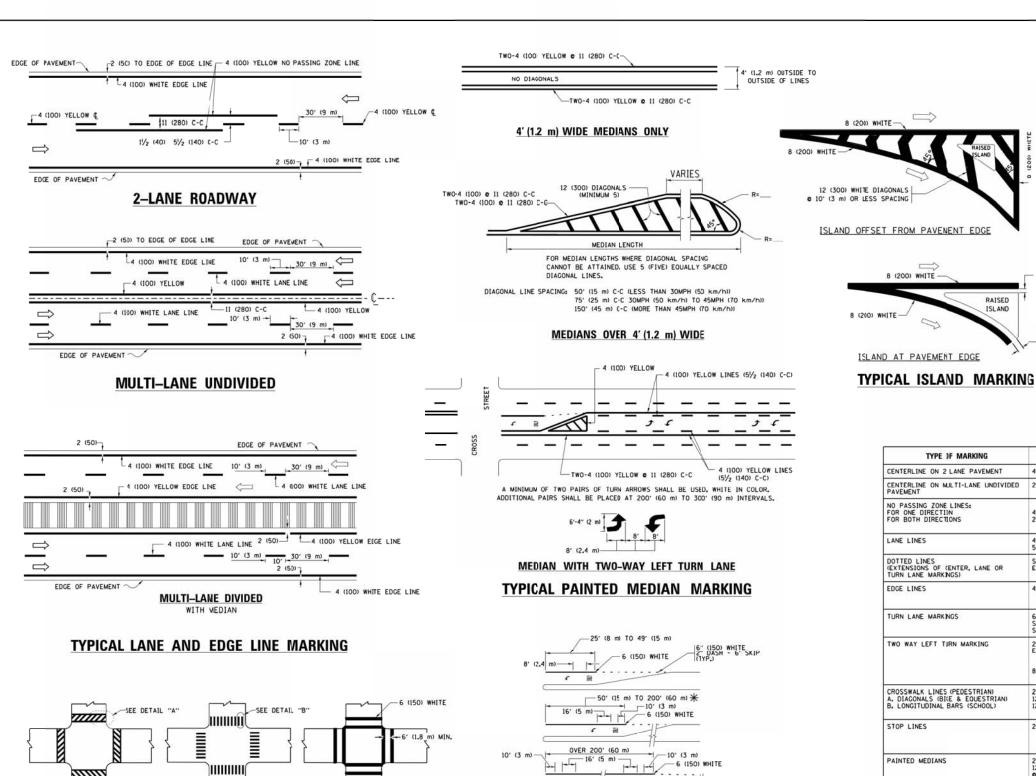
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE ONITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE FLANS OR BY THE ENGINEER.
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw:\\IL@84EBIDINTEG.:llinois.gov:PWIDOT\D	ocuments\IDOT Offices\District I\Projects\Dist	DRAWN\CADDete\CADsheets\:c10.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 ' / in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR						RTE.		
	SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS					4560		
_	SHEET 1	OF	1	SHEETS	STA.	TO STA.		



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

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FILE NAME = DESIGNED - EVERS USER NAME = footem_ REVISED -C. JUCIUS 09-09-09 WINTERNITE ents\IDDI Offices\District I\Projects\ ORAWN\CADDete\CADsheets\:c13.da REVISED C. JUCIUS 07-01-13 CHECKED REVISED C. JUCIUS 12-21-15 DATE 03-19-90 REVISED C. JUCIUS 04-12-16

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

- 6 (150) WHITE

DETAIL "A"

- 2' (600)

DETAIL "B"

-12 (300) WHITE

PEDESTRIAN

BICYCLE & EQUESTRIAN

STATE OF ILLINOIS

8 (200) WHITE -

RAISED

ISLAND

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.		all dimensions are in inches (millimeters) unless otherwise shown.										
DISTRICT ONE	RTE.	SECTION	COUNTY	TOTAL	SHEE NO.							
TYPICAL PAVEMENT MARKINGS	4560	16-00090-01-BR	MCHENRY	58	54							
TITICAL PAVEINENT MAIRINGS		TC-13	CONTRACT	NO. 6	1E49							
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT										

D(FT) SPEED LIMIT 345 30 425 35 500 580 45 665 50 750 55 40 (1020) 64 (1620) COMBINATION LEFT AND U-TURN — 2 (50) 5'-4" (1620) 732 R (810) 2 (50) LANE REDUCTION TRANSITION

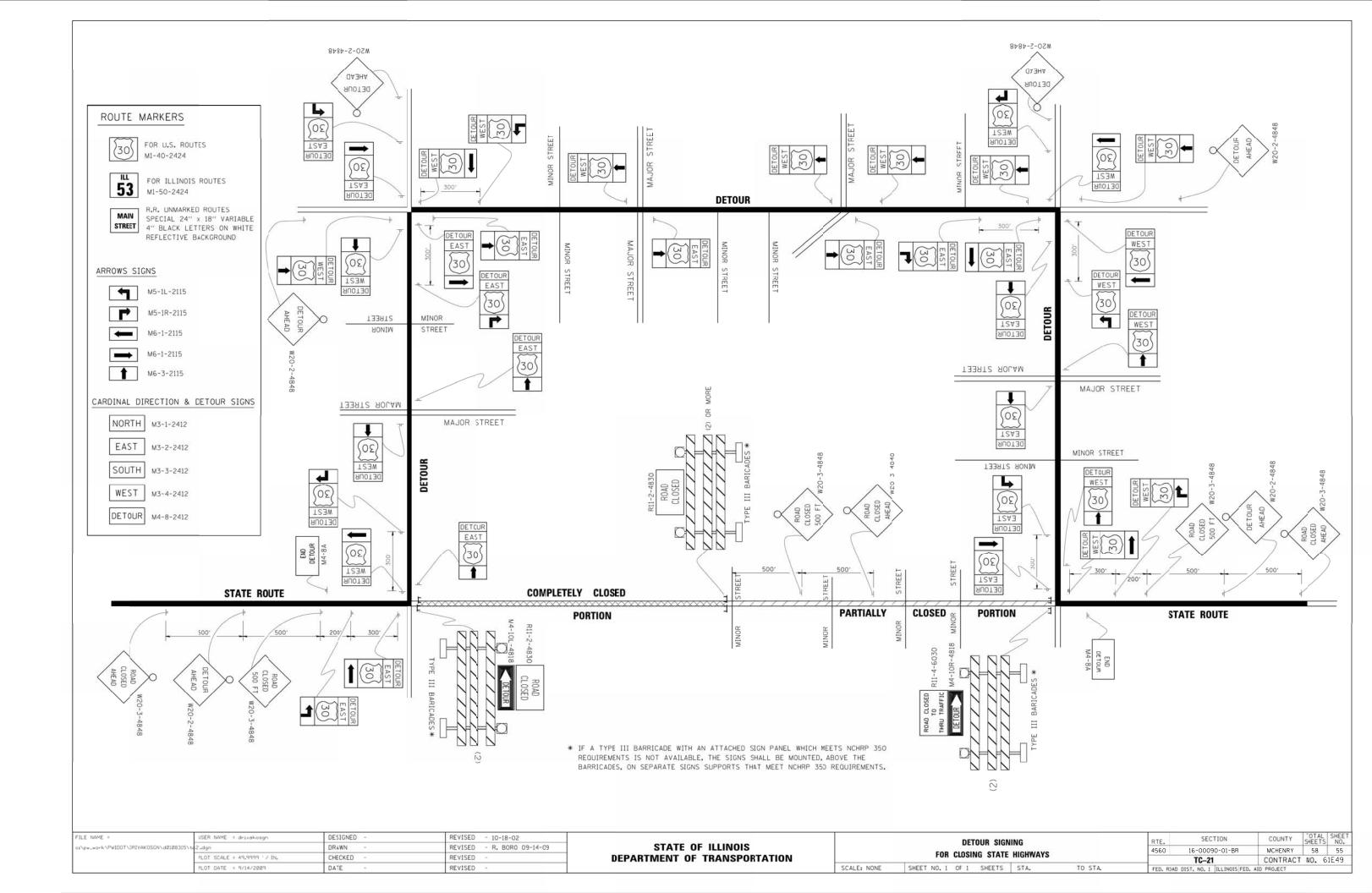
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

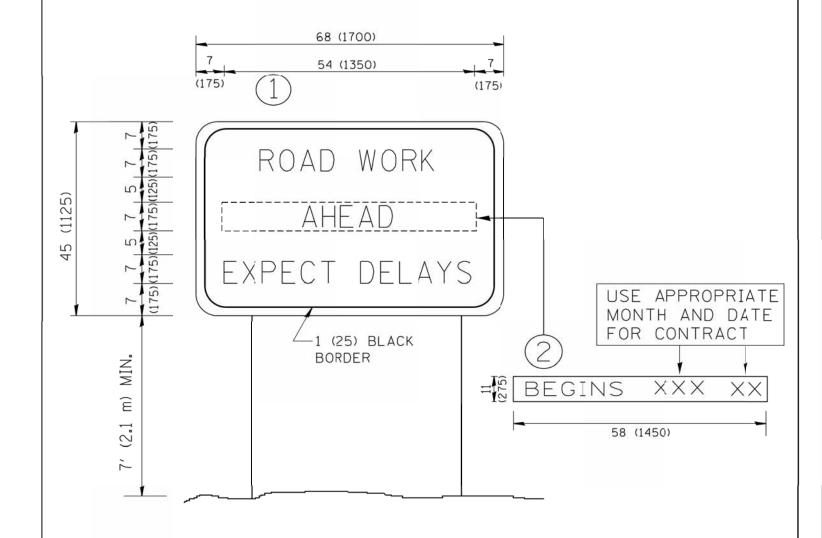
<u>5 10111</u>										
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS						
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE						
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 0 4 (100)	SOL1D	YELLOW	11 (280) C-C						
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN						
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE						
DOTTED LINES (EXTENSIONS OF (ENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENCED	2' (600) LINE WITH 6' (1.8 m) SPACE						
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW						
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL						
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL						
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BICE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 e 6 (150) 12 (300) e 45° 12 (300) e 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.						
STOP LINES	24 (600)	SOLID	WHITE	PLACE I' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERNIES, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE						
PAINTED MEDIANS	2 © 4 (100) WITH 12 (300) DIAGONALS © 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN WARKING.						
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIACONALS; 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) T0 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))						
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA CF: "R"33,6 SO, FT. (0.33 m²) EACH "X"54.0 SO, FT. (5.0 m²)						
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8'	12 (300) e 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))						
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF						
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF						

U-TURN

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

DEPARTMENT OF TRANSPORTATION





NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97		ARTERIAL ROAD					RTE.	SECTION	COUNTY	SHEET	SHEET NO.
Wi\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			4560	16-00090-01-BR	MCHENRY	58	56		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION						TC-22	CONTRAC	T NO.	61E49	
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07					TO STA.	FED. ROA	DAD DIST. NO. 1 ILLINOIS FED.				

