04-28-2017 LETTING ITEM 021

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	1
		ILLINOIS	CONTRACT NO. 72J13	

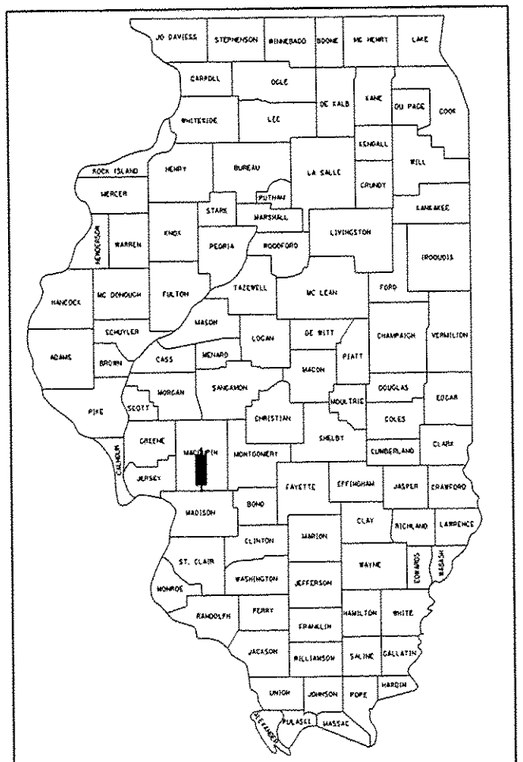
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP ROUTE 604 (IL 159)
SECTION D6 MACOUPIN CO. ADA
PROJECT STP-0604(026)
SIDEWALK IMPROVEMENTS IN BUNKER HILL
MACOUPIN COUNTY

D-96-050-16



LOCATION OF SECTION INDICATED THUS:-

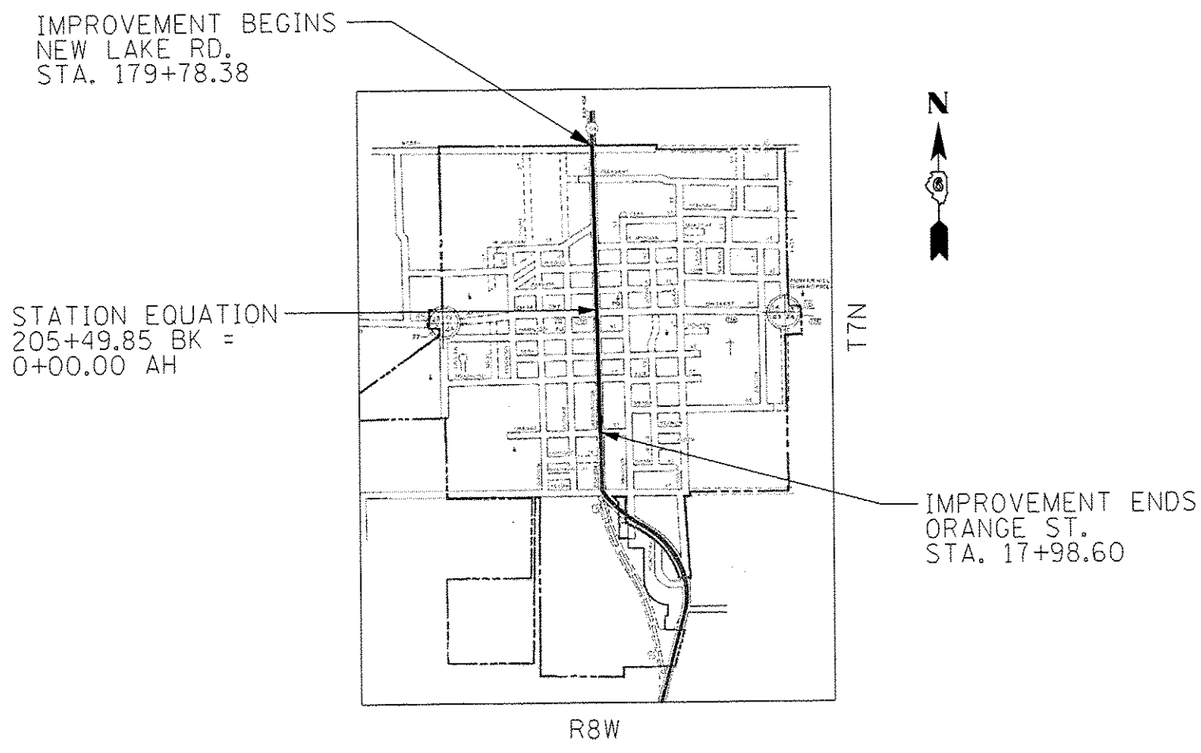
INDEX OF SHEETS

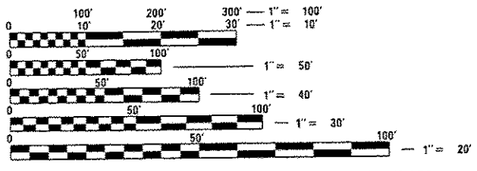
1	COVER SHEET
2	GENERAL NOTES
3–4	SUMMARY OF QUANTITIES
5–6	SCHEDULE OF QUANTITIES
7	ALIGNMENT AND SIDE ROAD LAYOUT
8–29	PLAN AND PROFILE SHEETS
30	DRAINAGE PLAN SHEET
31–33	DETAIL SHEETS

STANDARDS

000001–06	604046–03
001001–02	606001–06
001006	701001–02
424001–09	701006–05
424021–03	701501–06
542301–03	701801–06
542401–02	701901–06
604006–05	780001–05
604036–03	

C-96-050-16





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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

GROSS LENGTH = 4370 FT. = 0.83 MILE
NET LENGTH = 4370 FT. = 0.83 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3 February 2017
REGIONAL ENGINEER

Mar 24 2017
Maureen M. Addis, P.E. for
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 24 2017
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: JAY WAVERING 217-785-9046
PROJECT MANAGER: JON KELLEY 217-785-2739

CONTRACT NO. 72J13

GENERAL NOTES

1. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED LAND SURVEYOR OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

2. ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.

3. IN ADDITION TO FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS AND FIELD CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR QUANTITIES ACTUALLY FURNISHED AND PLACED AT THE CONTRACT UNIT BID PRICE FOR THE WORK.

4. ANY EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.

5. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATION", AND SHALL RESTORE SUCH PROPERTY AT HIS OWN EXPENSE.

7. ACCESS TO ALL ENTRANCES AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES.

8. THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E. NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCED NOTICE IS REQUIRED.

9. IF THE CONTRACTOR REQUESTS OLD PLANS, THEY SHALL CONTACT THE PROJECT ENGINEER OR TEAM ENGINEER AS SHOWN ON THE COVER SHEET TO HAVE THEM AVAILABLE FOR REVIEW.

10. ALL OF THE DISTURBED AREAS WITHIN THE RIGHT OF WAY NOT COVERED BY SURFACING MATERIAL SHALL BE SEEDED.

11. SEEDING SHALL BE DONE ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE RESIDENT ENGINEER. SEEDING SHALL BE PAID FOR ONLY WITHIN THE EXISTING RIGHT-OF-WAY. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THESE LIMITS SHALL BE SEEEDED, AS DIRECTED BY THE RESIDENT ENGINEER, AT THE CONTRACTOR'S EXPENSE. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITIONS.

12. INCIDENTAL HMA SURFACING HAS BEEN PROVIDED AS A METHOD TO REPAIR DAMAGED HMA PAVEMENT DUE TO REMOVAL OPERATIONS. ALL REPAIR AREAS SHALL BE "SQUARED UP" WITH A VERTICAL SAW CUT AROUND THE PERIMETER OF THE PATCH OR AS DIRECTED BY THE ENGINEER. ALSO, A BITUMINOUS MATERIAL TACK COAT SHALL BE APPLIED TO ALL PAVEMENT REPAIR AREAS AT A RATE OF 0.05 LB/SQ FT PRIOR TO THE INSTALLATION OF INCIDENTAL HMA SURFACING. THIS ADDITIONAL WORK SHALL BE CONSIDERED INCIDENTAL TO THE INCIDENTAL HMA SURFACING.

MIX REQUIREMENTS	
MIX USE:	INCIDENTAL HMA
PG:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50
MIX COMPOSITION:	IL - 9.5
FRICTION AGGREGATE:	N/A
QUALITY MANAGEMENT:	QC/QA
SUBJECT SIZE:	N/A

DISTRICT SIX

EXAMINED November 29 20 16

OPERATIONS ENGINEER

EXAMINED November 30 20 16

PROJECT IMPLEMENTATION ENGINEER

EXAMINED December 1 20 16

PROGRAM DEVELOPMENT ENGINEER

PPS# 6-00784-0000

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE STP 80%-20% ROADWAY 0021 RURAL
20200100	EARTH EXCAVATION	CU YD	50	50
25000100	SEEDING, CLASS 1	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23
25100115	MULCH, METHOD 2	ACRE	0.25	0.25
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	86	86
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	5	5
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	4116.5	4116.5
42400800	DETECTABLE WARNINGS	SQ FT	408	408
44000100	PAVEMENT REMOVAL	SQ YD	30	30
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	204	204
44000600	SIDEWALK REMOVAL	SQ FT	3226	3226
44213200	SAW CUTS	FOOT	16	16

14

PPS# 6-00784-0000

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE STP 80%-20% ROADWAY 0021 RURAL
50102400	CONCRETE REMOVAL	CU YD	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	51	51
50800105	REINFORCEMENT BARS	POUND	40	40
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1	1
54002020	EXPANSION BOLTS 3/4 INCH	EACH	19	19
54010302	PRECAST CONCRETE BOX CULVERTS 3' X 2'	FOOT	20	20
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	10	10
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	32	32
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1
54215559	METAL END SECTIONS 24"	EACH	1	1
54248510	CONCRETE COLLAR	CU YD	0.8	0.8
60260500	INLETS TO BE ADJUSTED WITH NEW TYPE 3 FRAME AND GRATE	EACH	3	3
60261200	INLETS TO BE ADJUSTED WITH NEW TYPE 10 FRAME AND GRATE	EACH	1	1
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1

14

PPS# 6-00784-0000

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE STP 80%-20% ROADWAY 0021 RURAL
60402210	GRATES, TYPE 8	EACH	1	1
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	231	231
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	LSUM	1	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	30	30
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	154	154
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	55	55
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	42	42
X0350810	BOLLARD REMOVAL	EACH	2	2
X1700011	STAMPED COLORED PORTLAND CEMENT CONCRETE MEDIAN SURFACE 4 INCH	SQ FT	146	146
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
13 X6023200	INLETS, TYPE A, SPECIAL	EACH	1	1

* SPECIALTY ITEM

SIDEWALK SCHEDULE

FAP 604 IL 159 BUNKER HILL		44000600 SIDEWALK REMOVAL	44000100 PAVEMENT REMOVAL	42400100 PCC SIDEWALK 4"	X1700011 STAMPED COLORED PCC MEDIAN SURFACE 4"	42400800 DETECTABLE WARNINGS	44000500 COMBINATION CURB AND GUTTER REMOVAL	60604400 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	31101200 SUB-BASE GRAN. MAT., TYPE B 4"	20200100 EARTH EXCAVATION	60265700 VALVE VAULTS TO BE ADJUSTED	X0350810 BOLLARD REMOVAL	44213200 SAW CUTS
LOCATION	QUADRANT	(SQ FT)	(SQ YD)	(SQ FT)	(SQ FT)	(SQ FT)	(FT)	(FT)	(SQ YD)	(CU YD)	(EACH)	(EACH)	(FOOT)
ORANGE ST.	NW	44.9		49.3		8.0							
ORANGE ST.	NE	46.8		59.4		8.0							
ORANGE ST.	SW	139.1		189.0		16.0							
ORANGE ST.	SE	43.5		80.5		16.0							
BROOKLINE ST.	NW	135.0		175.9		16.0							
BROOKLINE ST.	NE	153.2		160.4		16.0							
BROOKLINE ST.	SW	31.9		45.8		8.0							
BROOKLINE ST.	SE	23.0		25.2		8.0							
PARK ST.	NW	21.7		41.4		8.0							
PARK ST.	NE	17.9		42.4		10.0							
PARK ST.	SW	213.9	1.2	234.2		16.0			1.2				
PARK ST.	SE	72.0		177.5		16.0							
HAMILTON ST.	NW	0.0		72.4		8.0							
HAMILTON ST.	NE	20.7		0.0		0.0							16
HAMILTON ST.	SW	40.1		57.9		16.0							
HAMILTON ST.	SE	16.0		174.5		16.0							
WARREN ST.	NW	238.6		195.0	45.0	20.0	37.3	37.3	12.8				
WARREN ST.	NE	308.4	21.1	427.6	38.6	20.0	42.7	57.8	21.1		1	2	
WARREN ST.	SW	367.2		347.3	18.1	28.5	51.0	51.0	17.5				
WARREN ST.	SE	62.0		62.0		16.0							
FAYETTE ST.	NW	34.2	2.0	52.5		8.0			2.0				
FAYETTE ST.	NE	36.1	2.0	51.6		8.0			2.0				
FAYETTE ST.	SW	325.7		303.5	26.0	21.5	39.2	39.2	13.4				
FAYETTE ST.	SE	206.3	3.0	278.7	17.6	20.0	33.4	45.5	15.6				
WILBUR ST.	NE	36.1		43.7		8.0							
WILBUR ST.	SW	139.4		149.5		8.0				13.2			
WILBUR ST.	SE	38.3		53.9		8.0							
E. MORGAN ST.	NE	28.6		45.1		8.0							
E. MORGAN ST.	SE	176.1		234.9		8.0				24.4			
W. MORGAN ST.	NW	37.4		45.2		8.0							
W. MORGAN ST.	SW	18.2		38.6		8.0							
PLEASANT ST.	NW	45.6		63.4		8.0							
PLEASANT ST.	SW	69.7		98.1		8.0				8.0			
NEW LAKE RD.	SW	37.7		40.1		8.0							
TOTAL		3225.3	29.3	4116.5	145.3	408.0	203.6	230.8	85.6	45.6	1	2	16

DRAINAGE SCHEDULE

STATION	OFFSET (FT)	54213657 PRECAST CONCRETE FLARED END SECTIONS, 12" (EACH)	60260500 INLETS TO BE ADJ. WITH NEW TY. 3 FRAME & GRATE (EACH)	60261200 INLETS TO BE ADJ. WITH NEW TY. 10 FRAME & GRATE (EACH)	50105220 PIPE CULVERT REMOVAL (FT)	50102400 CONCRETE REMOVAL (CU YD)	54010302 PRECAST BOX CULVERT 3' x 2' (FT)	54001001 BOX CULVERT END SECTION NO. 1 (EACH)	X6023200 INLETS TY. A SPECIAL (EACH)	60402210 GRATES, TYPE 8 (EACH)	542D0220 PIPE CL. D, TY. 1 15" (FT)	542D0229 PIPE CL. D, TY. 1 24" (FT)	54215559 METAL END SECTIONS, 24" (EACH)	54248510 CONCRETE COLLAR (CU YD)	50800105 REINFORCEMENT BARS (POUND)	54002020 EXPANSION BOLTS, 3/4" (EACH)
17+81.72	44.5 RT	1														
205+45.25	52.1 RT			1												
204+63.54	38.6 LT		1													
201+80.32	39.4 RT		1													
201+78.80	37.4 LT		1													
184+86.20	25.5 RT				28.0							32.0	1	0.22		8
184+53.59	25.8 RT				13.0	1.0	20.0							0.37	35.5	7
184+53.21	28.4 RT								1	1						
184+50.76	45.3 RT							1								
184+40.87	31.1 RT				10.0						10.0			0.14		4
TOTAL		1	3	1	51.0	1.0	20.0	1	1	1	10.0	32.0	1	0.73	35.5	19

SEEDING SCHEDULE

FAP 604 IL 159 BUNKER HILL		25000100 SEEDING, CLASS 1	25000400 NITROGEN FERTILIZER NUTRIENT	25000500 PHOSPHORUS FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT	25100115 MULCH, METHOD 2
LOCATION	QUADRANT	(ACRE)	(POUND)	(POUND)	(POUND)	(ACRE)
ORANGE ST.	NW	0.008	0.72	0.72	0.72	0.008
ORANGE ST.	NE	0.008	0.72	0.72	0.72	0.008
ORANGE ST.	SW	0.008	0.72	0.72	0.72	0.008
ORANGE ST.	SE	0.008	0.72	0.72	0.72	0.008
BROOKLINE ST.	NW	0.008	0.72	0.72	0.72	0.008
BROOKLINE ST.	NE	0.008	0.72	0.72	0.72	0.008
BROOKLINE ST.	SW	0.008	0.72	0.72	0.72	0.008
BROOKLINE ST.	SE	0.008	0.72	0.72	0.72	0.008
PARK ST.	NW	0.008	0.72	0.72	0.72	0.008
PARK ST.	NE	0.008	0.72	0.72	0.72	0.008
PARK ST.	SW	0.008	0.72	0.72	0.72	0.008
PARK ST.	SE	0.000	0	0	0	0.000
HAMILTON ST.	NW	0.009	0.81	0.81	0.81	0.009
HAMILTON ST.	NE	0.009	0.81	0.81	0.81	0.009
HAMILTON ST.	SW	0.013	1.17	1.17	1.17	0.013
HAMILTON ST.	SE	0.013	1.17	1.17	1.17	0.013
WARREN ST.	NW	0.000	0	0	0	0.000
WARREN ST.	NE	0.000	0	0	0	0.000
WARREN ST.	SW	0.000	0	0	0	0.000
WARREN ST.	SE	0.000	0	0	0	0.000
FAYETTE ST.	NW	0.000	0	0	0	0.000
FAYETTE ST.	NE	0.000	0	0	0	0.000
FAYETTE ST.	SW	0.000	0	0	0	0.000
FAYETTE ST.	SE	0.015	1.35	1.35	1.35	0.015
WILBUR ST.	NE	0.008	0.72	0.72	0.72	0.008
WILBUR ST.	SW	0.015	1.35	1.35	1.35	0.015
WILBUR ST.	SE	0.008	0.72	0.72	0.72	0.008
MORGAN ST.	NW	0.008	0.72	0.72	0.72	0.008
MORGAN ST.	NE	0.008	0.72	0.72	0.72	0.008
MORGAN ST.	SW	0.008	0.72	0.72	0.72	0.008
MORGAN ST.	SE	0.015	1.35	1.35	1.35	0.015
PLEASANT ST.	NW	0.008	0.72	0.72	0.72	0.008
PLEASANT ST.	SW	0.015	1.35	1.35	1.35	0.015
NEW LAKE RD.	SW	0.008	0.72	0.72	0.72	0.008
TOTAL		0.25	22.3	22.3	22.3	0.25

PAVEMENT MARKING SCHEDULE

FAP 604 IL 159 BUNKER HILL		X0327980 PAVEMENT MARKING REMOVAL WATERBLASTING	78000400 THERMOPLASTIC PAVEMENT MARKING LINE, 6"	78000600 THERMOPLASTIC PAVEMENT MARKING LINE, 12"
LOCATION	QUADRANT	(SQ FT)	(FOOT)	(FOOT)
FAYETTE ST.	NW	0	40	35
FAYETTE ST.	NE & SE	42	114	20
TOTAL		42	154	55

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		DRAWN -	REVISED -
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Default	PLOT DATE = 2/3/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 604 (IL 159)
SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

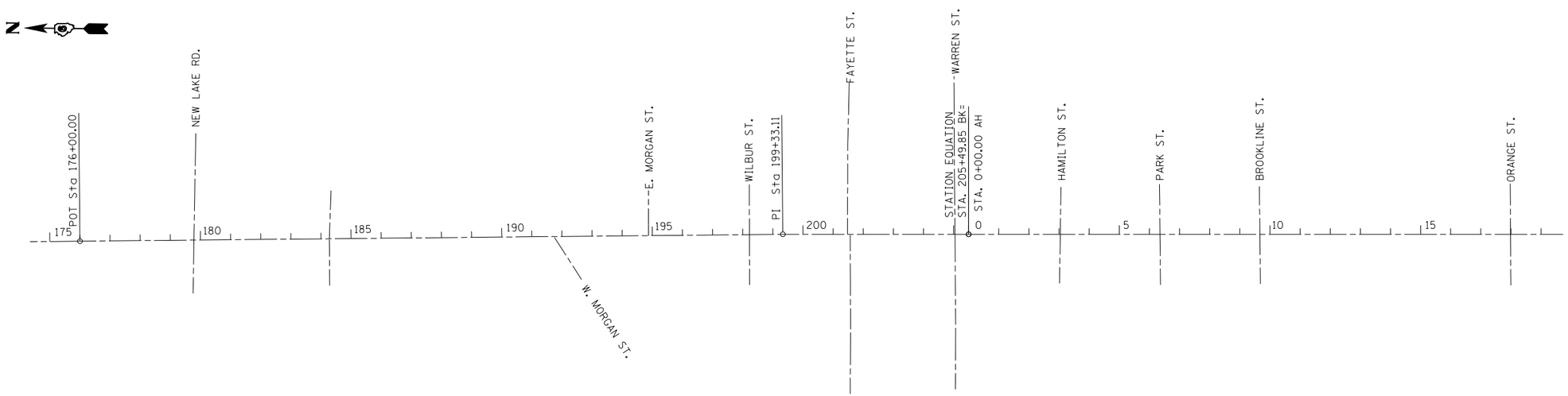
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	6

CONTRACT NO. 72J13

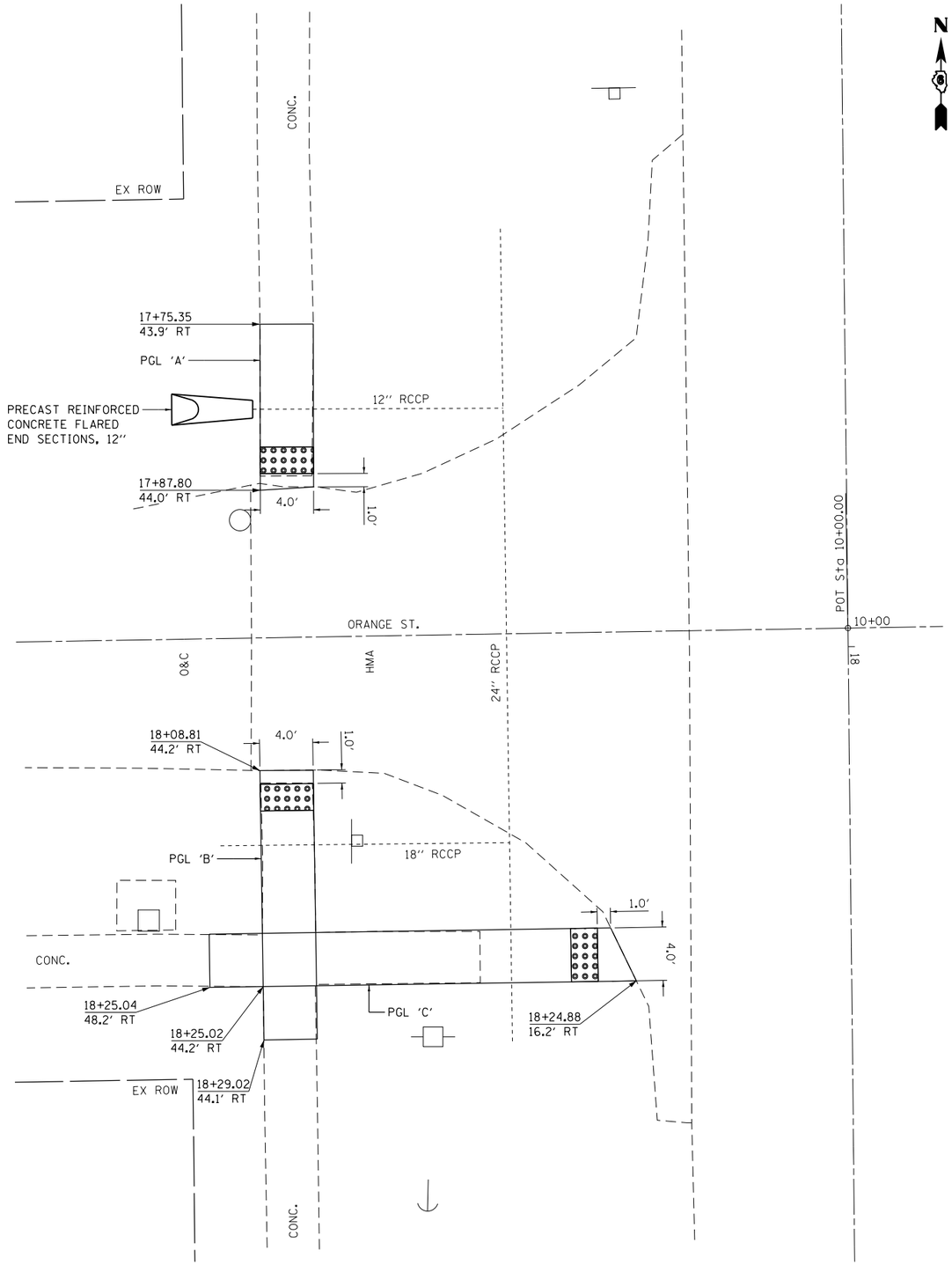
ILLINOIS FED. AID PROJECT

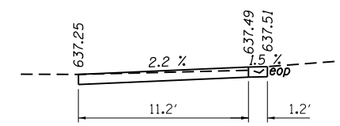
BENCHMARK INFORMATION	ELEVATION	LOCATION
BM-38B		
NORTH-NORTHWESTERLY BONNET BOLT OF FIRE HYDRANT, 48' EAST OF CENTERLINE RTE. 159 AND 0.22 MILES NORTH OF NEW LAKE ROAD AT RTE. 159 MILE MARKER 4.00	650.762	N 39°03'12'' W 89°57'05''
BM-39B		
RAILROAD SPIKE IN EAST SIDE OF UTILITY POLE (NO NUMBER) AT SOUTHWEST QUADRANT OF THE INTERSECTION OF RTE. 159 AND WEST PLEASANT STREET EAST, 24' WEST OF CENTERLINE RTE. 159, 30' SOUTH OF CENTERLINE WEST PLEASANT STREET EAST.	637.095	N 39°02'55'' W 89°57'06''
BM-40B		
BRASS DISC ON TOP W. SIDE OF MARBLE LINCOLN MONUMENT AT INTERSECTION OF IL 159 AND FAYETTE ST.	668.013	STA. 201+58.30 1.5' RT
BM RTB #2		
TOP OF EXPOSED REBAR ON THE W. END OF HEADWALL ON THE W. SIDE IL 159, SW. QUAD IL 159 AND MORGAN ST.	642.876	STA. 192+23.55 26.4' RT
BM 39B		
FD RR SPIKE IN UTILITY POLE ON W. SIDE IL 159, SW QUAD OF IL 159 AND PLEASANT ST.	637.073	STA. 184+58.15 22.8' RT
BM RTB #1		
SET CHSLD SQUARE ON N. CORNER OF CONC HEADWALL ON THE E. SIDE IL 159, SE OF IL 159 AND NEW LAKE RD.	638.207	STA. 179+95.40 39.2' LT
BM RTB #3		
SET CHSLD 'X' ON SW BOLT OF FIRE HYDRANT AT THE NE QUAD IL 159 AND WARREN ST. AT SPANKY'S BAR.	667.658	STA. 204+67.20 59.15' LT
BM RTB #4		
SET CHSLD SQUARE N. HEADWALL ON THE E. SIDE IL 159, NE QUAD IL 159 AND BROOKLINE ST.	645.174	STA. 9+34.20 31.3' LT
BM RTB #5		
SET CHSLD 'X' ON THE SE BOLT OF E. SIGN POST (2X GAS STATION) ON W. SIDE IL 159.	636.102	STA. 21+49.70 52.4' RT
BM RTB #6		
FD RR SPIKE IN POWER POLE AT THE SW QUAD IL 159 AND ALTON ST.	637.968	STA. 27+50.60 55.2' RT
PSM 2139		
FD 3" ALUM DISC IN TOP CENTER OF W. CONC HEADWALL OF 6'W X 3'H BOX CULVERT ON W. SIDE IL 159, IN FRONT OF SUBWAY.	635.935	STA. 25+41.42 21.85' RT

ALIGNMENT	STATION	NORTHING	EASTING
E008	176+00.00	868,225.33	2,357,628.55
	199+33.11	865,892.71	2,357,676.31
	205+49.85	865,276.01	2,357,682.89

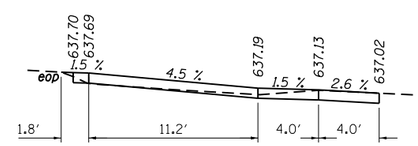


FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 6\Projects\D672J13\DrawingData\GADsheets\D672J13-sht-ATB.dgn	USER NAME = Verenskifa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 604 (IL 159) ALIGNMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN	REVISED -			604	D6 MACOUPIN CO. ADA	MACOUPIN	33 / 7
	PLOT SCALE = 400.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 72J13	
Default	PLOT DATE = 2/3/2017	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT		





PROFILE 'A'



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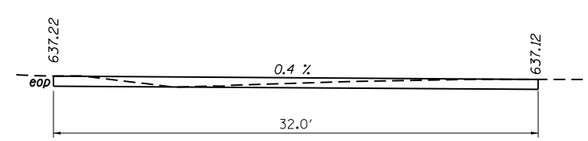


PROFILE 'C'

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.

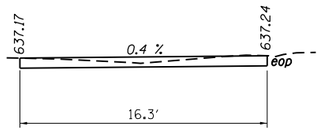
2. MATCH PROPOSED SIDEWALK TO THE EXISTING SIDEWALK AT AN EXISTING JOINT. WHEN TRANSITIONING FROM A PROPOSED 4 FOOT (OR 5 FOOT) WIDTH TO EXISTING, USE A 10 FOOT TRANSITION LENGTH. SAW CUT FULL-DEPTH FOR REMOVAL OF SIDEWALK.

3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

5. ELEVATIONS SHOWN ARE TO THE TOP OF SIDEWALK UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO THE CONSTRUCTION OF ANY RAMP OR SIDEWALK. ANY ADJUSTMENTS NECESSARY TO MEET EXISTING FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.



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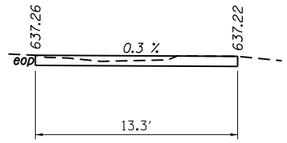

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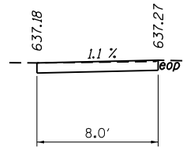

PROFILE 'C'

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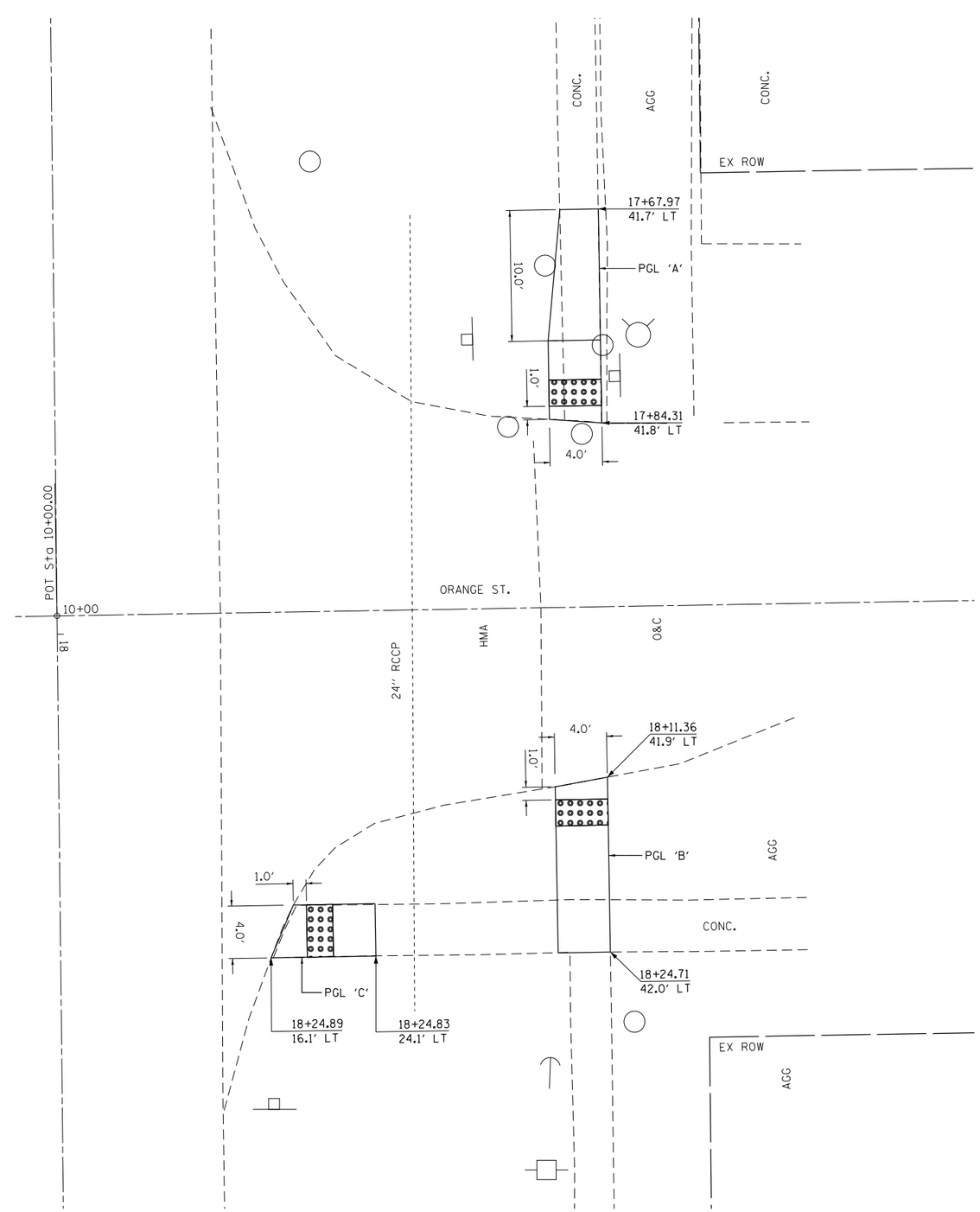

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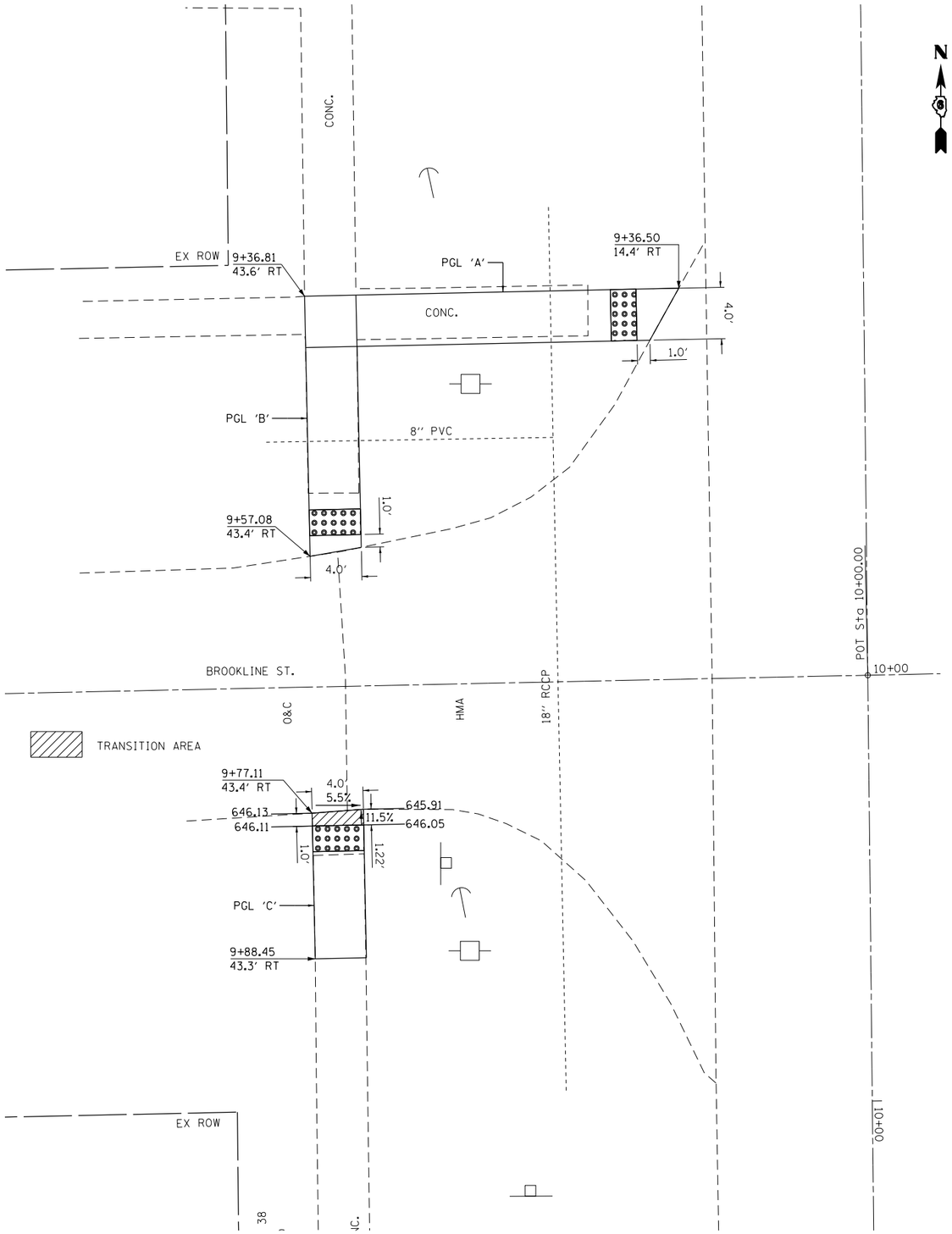
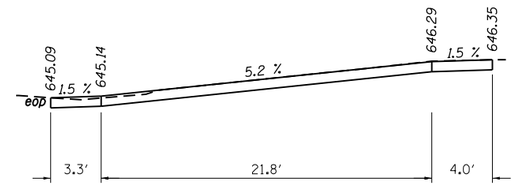
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 /ORANGE ST.
PLAN SHEETS /SIDEWALK DETAILS

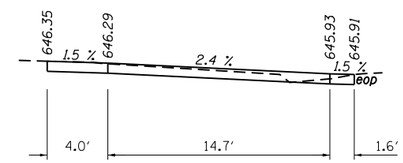
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	9
		CONTRACT NO. 72J13		
		ILLINOIS FED. AID PROJECT		

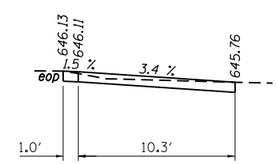




PROFILE 'A'



PROFILE 'B'



PROFILE 'C'

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3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

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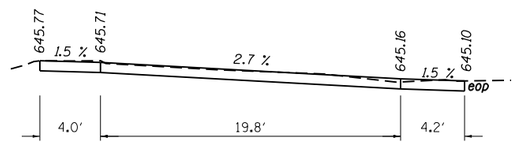
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 /BROOKLINE ST.
PLAN SHEETS /SIDEWALK DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	10
		CONTRACT NO. 72J13		
	ILLINOIS FED. AID PROJECT			



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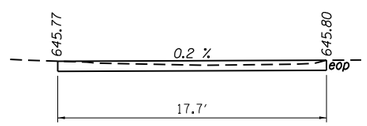
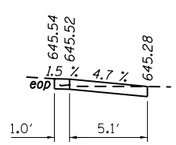


PROFILE 'B'



PROFILE 'C'

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.

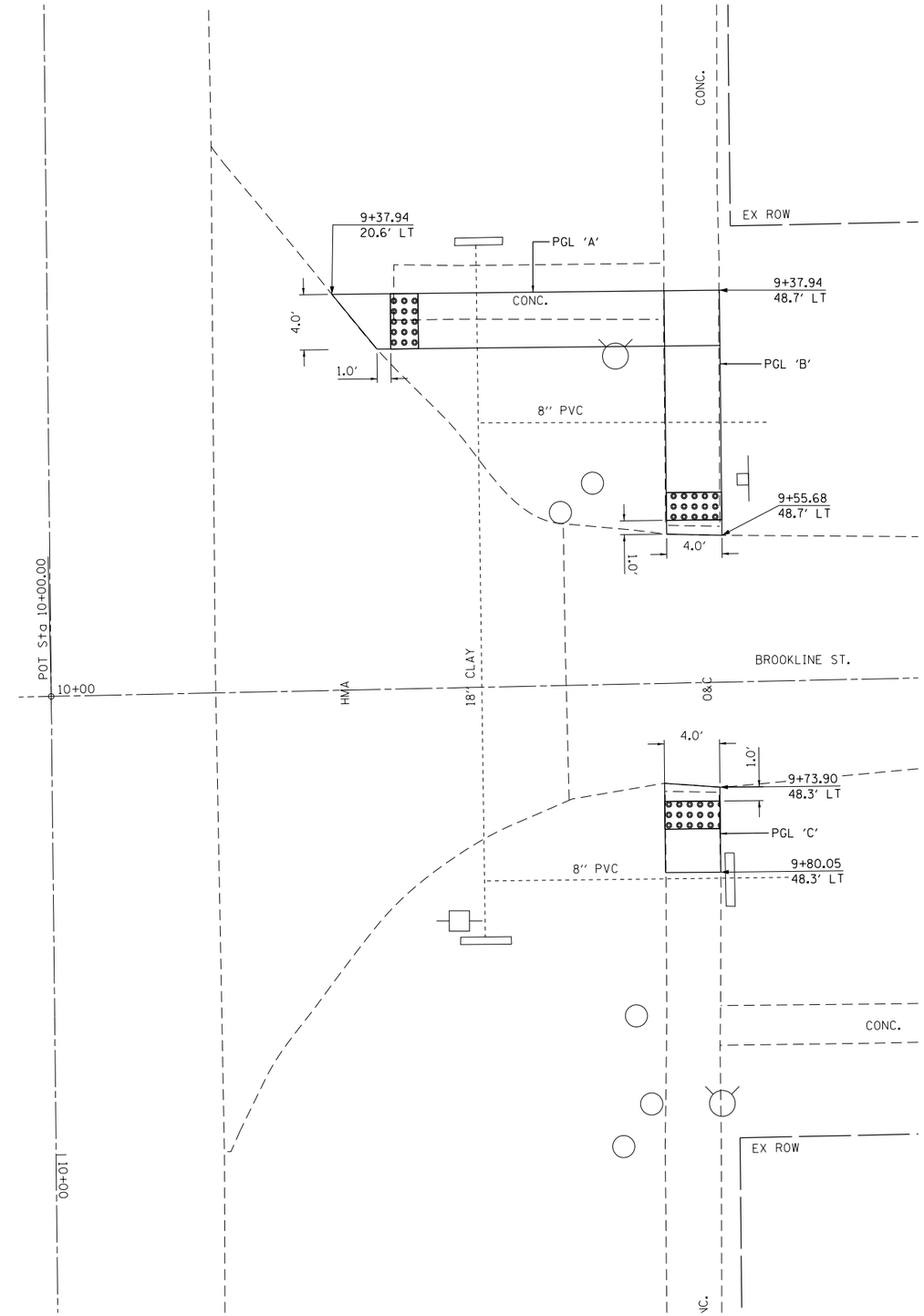
2. MATCH PROPOSED SIDEWALK TO THE EXISTING SIDEWALK AT AN EXISTING JOINT. WHEN TRANSITIONING FROM A PROPOSED 4 FOOT (OR 5 FOOT) WIDTH TO EXISTING, USE A 10 FOOT TRANSITION LENGTH. SAW CUT FULL-DEPTH FOR REMOVAL OF SIDEWALK.

3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

5. ELEVATIONS SHOWN ARE TO THE TOP OF SIDEWALK UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO THE CONSTRUCTION OF ANY RAMP OR SIDEWALK. ANY ADJUSTMENTS NECESSARY TO MEET EXISTING FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.



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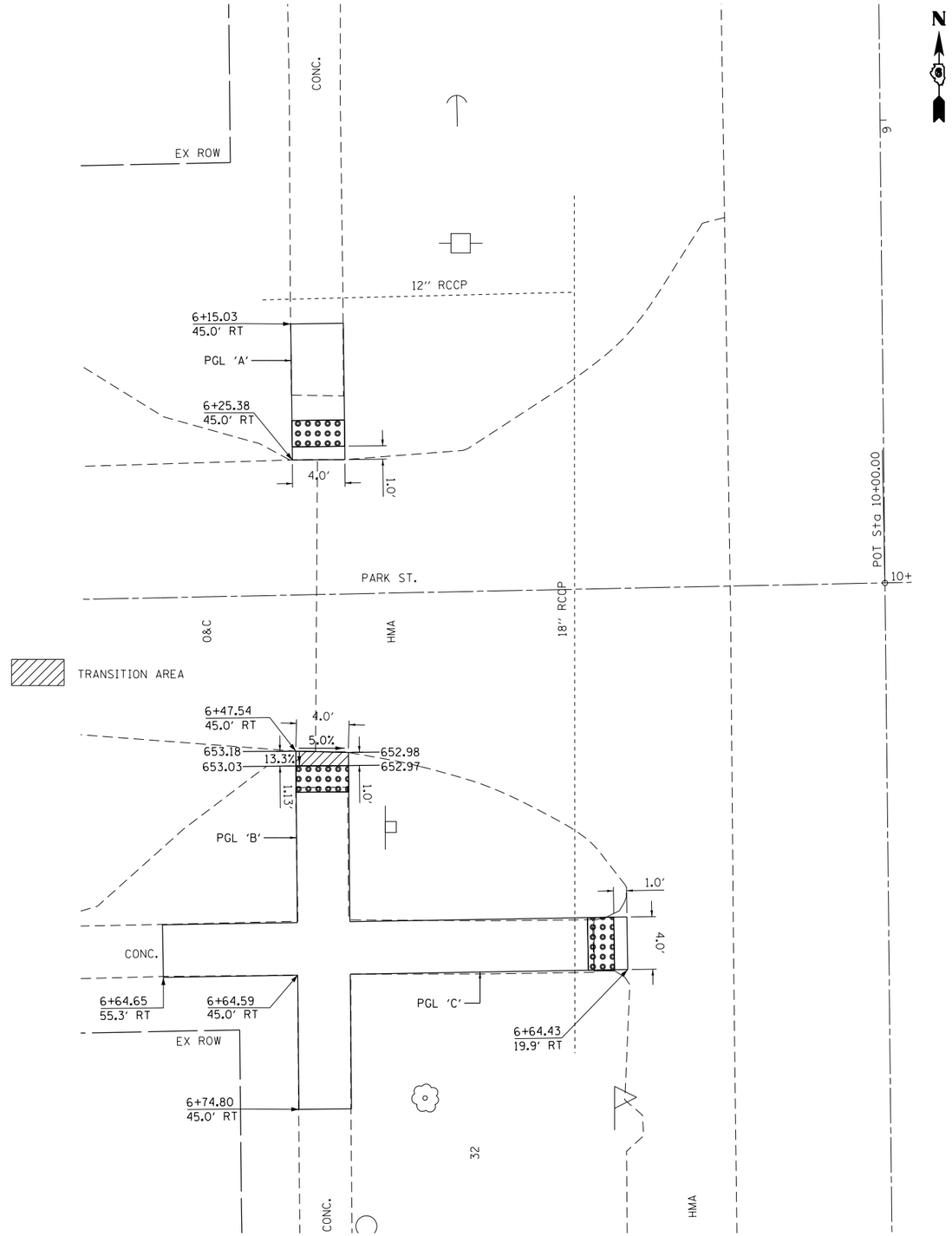
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

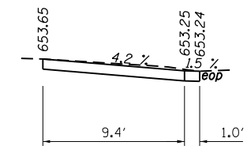
IL 159 /BROOKLINE ST.
PLAN SHEETS /SIDEWALK DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

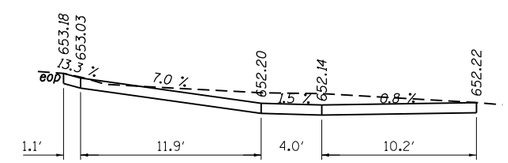
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	11
		CONTRACT NO. 72J13		

ILLINOIS FED. AID PROJECT

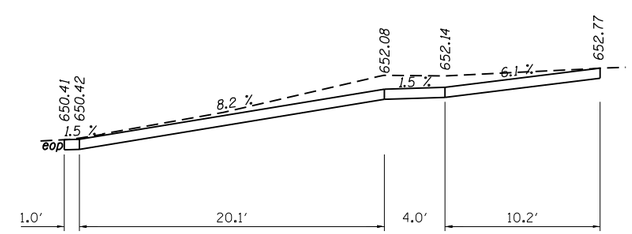




PROFILE 'A'



PROFILE 'B'



PROFILE 'C'

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3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

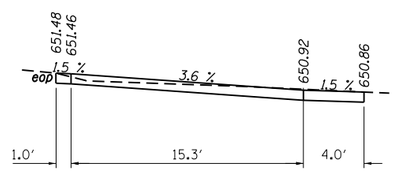
IL 159 /PARK ST.
PLAN SHEETS /SIDEWALK DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

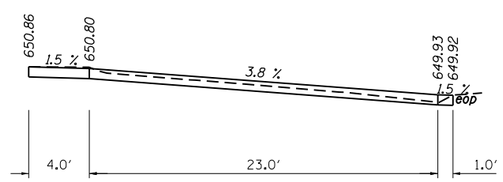
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	12
		CONTRACT NO. 72J13		

ILLINOIS FED. AID PROJECT

PROFILE 'A'



PROFILE 'B'



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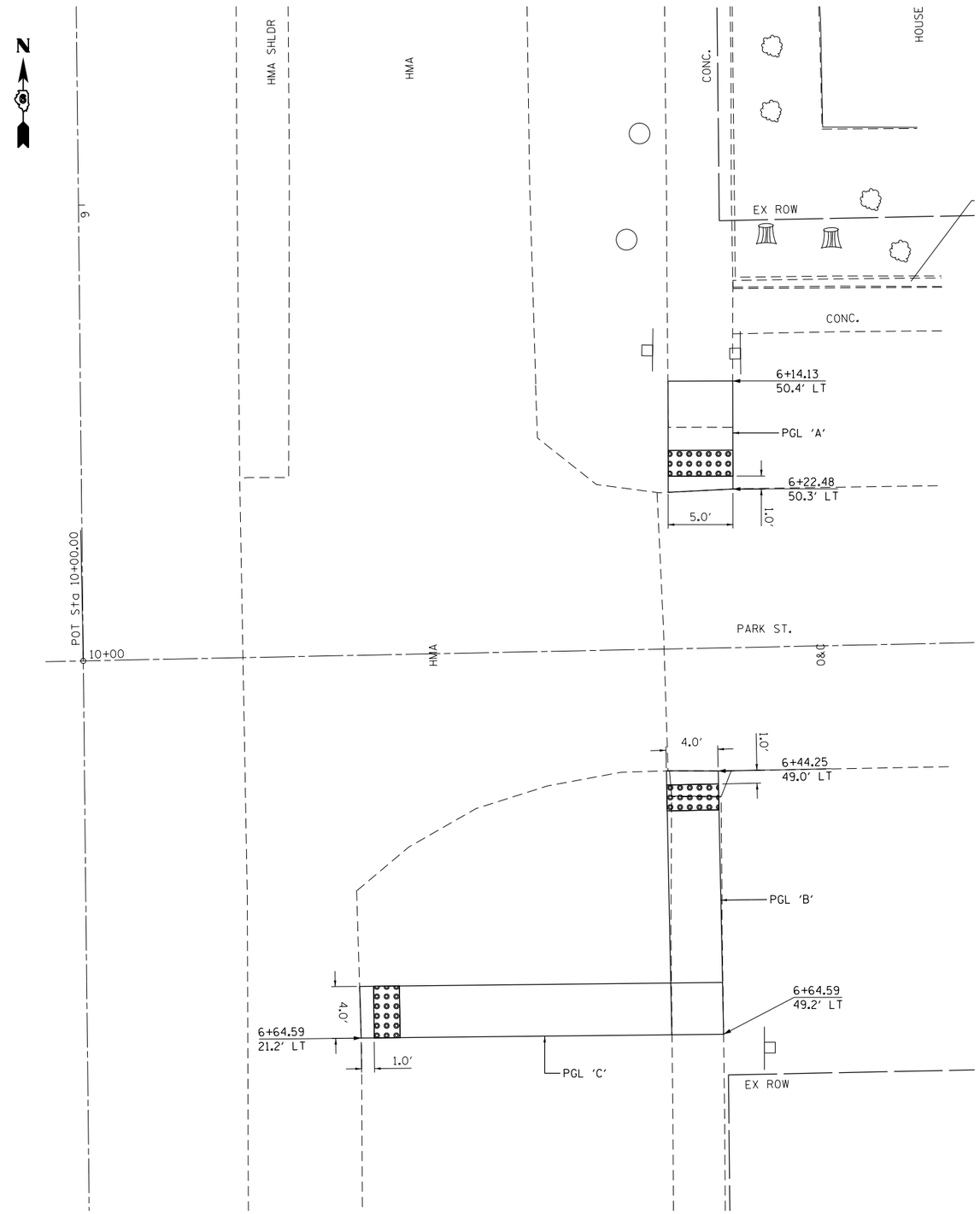

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		DRAWN -	REVISED -			604	D6 MACOUPIN CO. ADA	MACOUPIN	33	13
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 72J13		
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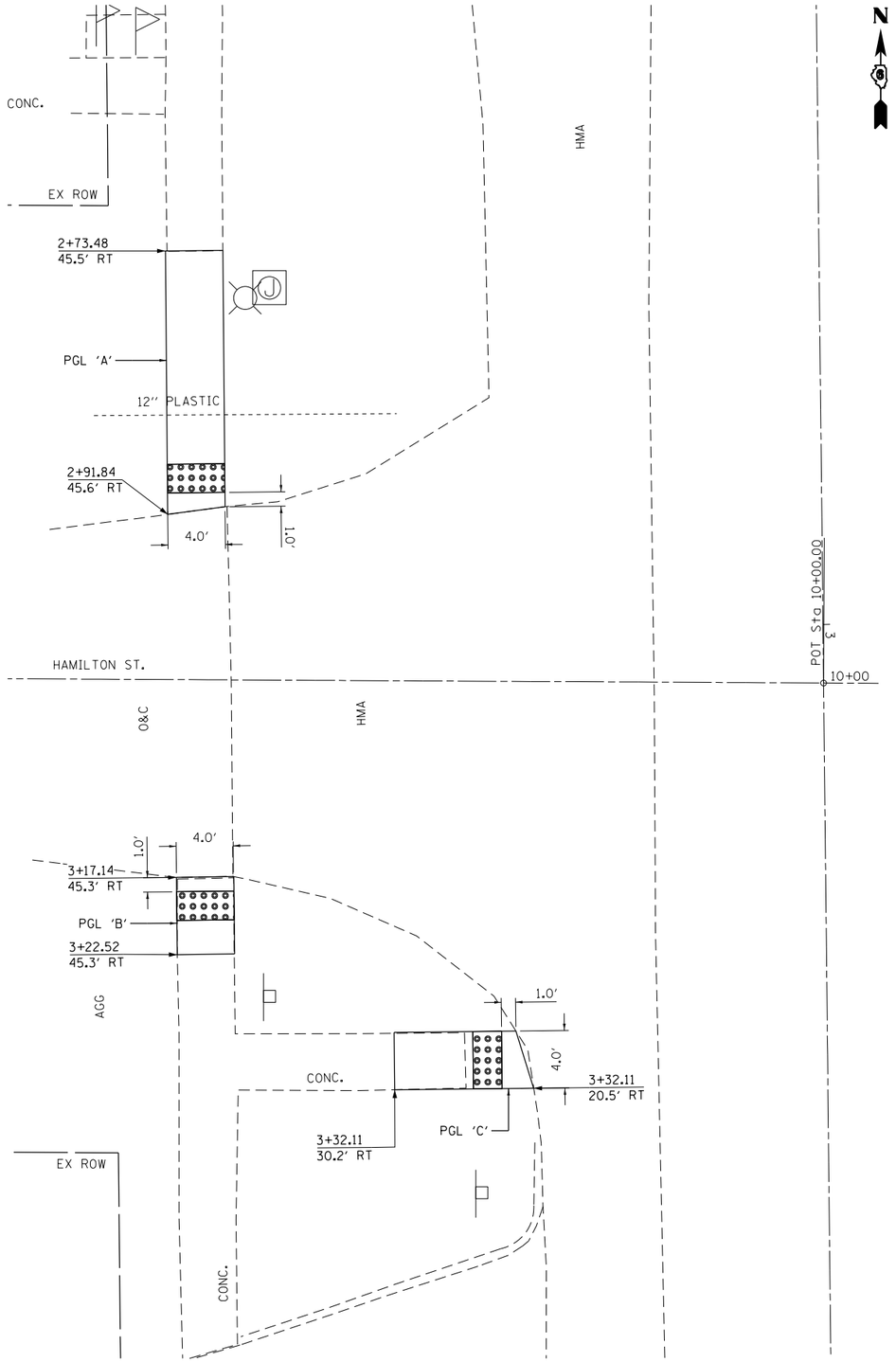
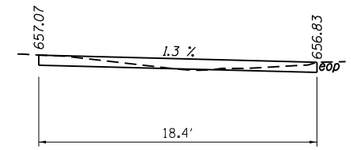
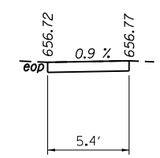
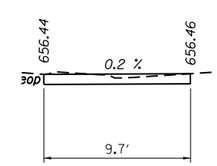




PROFILE 'A'



PROFILE 'B'



PROFILE 'C'

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3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

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Sheet File	PLOT DATE = 2/3/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

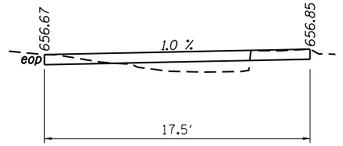
IL 159 /HAMILTON ST.
PLAN SHEETS /SIDEWALK DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

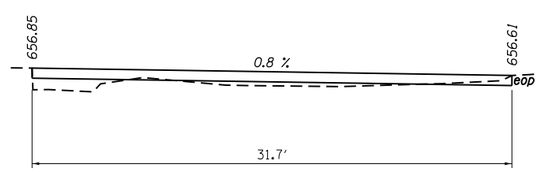
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	14
		CONTRACT NO. 72J13		

ILLINOIS FED. AID PROJECT

- THIS SIDEWALK RAMP WAS RECENTLY INSTALLED AND DETERMINED TO BE NON-COMPLIANT WITH ADA STANDARDS. THE WEST SIDE OF THE RAMP HAS A "CONCRETE CURB" THAT IS 2.2' WIDE AND IS ACCESSIBLE TO PEDESTIANS FROM THE TOP. TO MAKE THIS RAMP COMPLIANT, A SAW CUT SHALL BE MADE ALONG THAT CURB LEAVING A 6" CURB FOR THE RAMP AND REMOVING THE EXCESS CONCRETE. SEEDING SHALL BE INSTALLED IN THE EARTHEN CORNER AREA.



PROFILE 'B'



PROFILE 'C'

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.

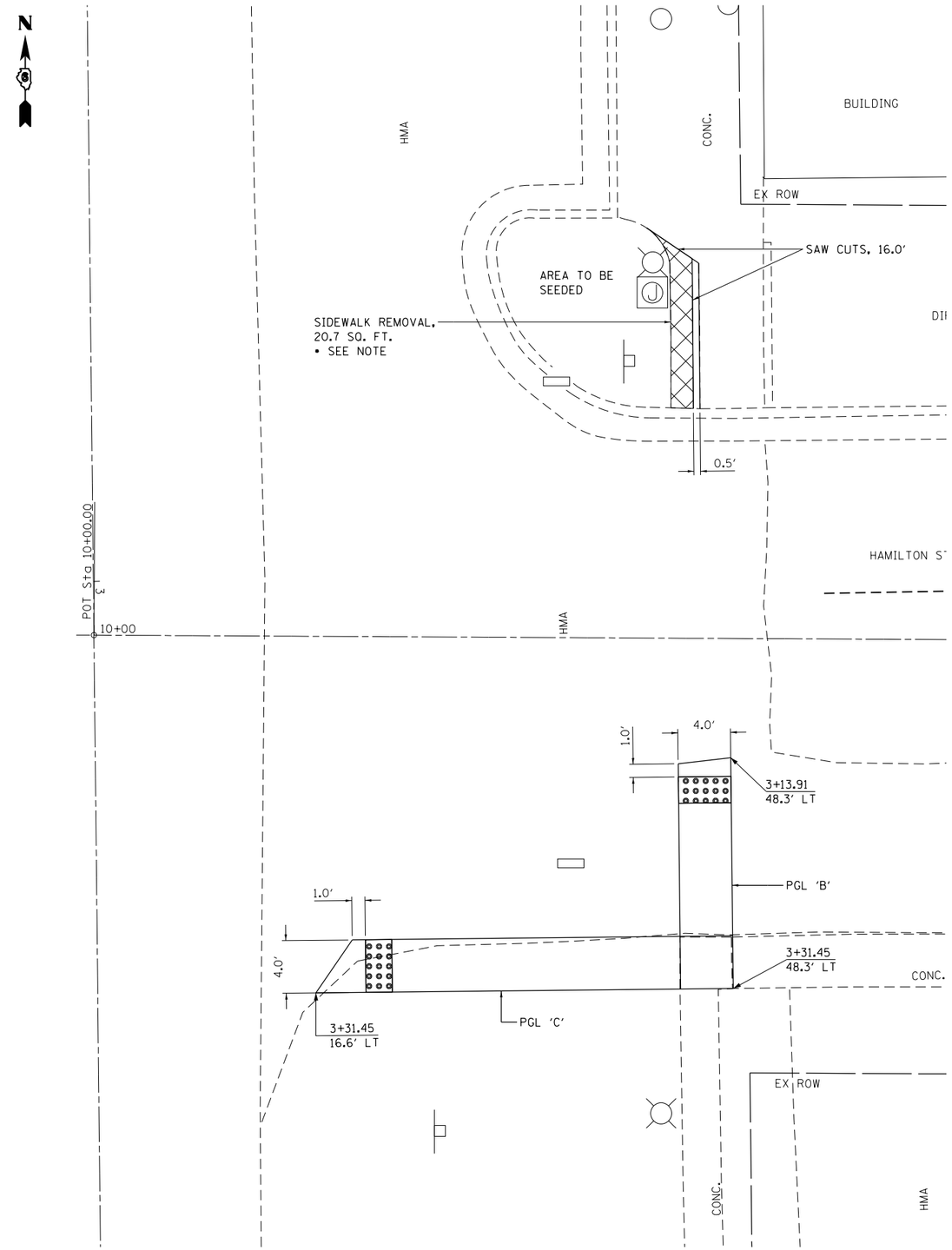
2. MATCH PROPOSED SIDEWALK TO THE EXISTING SIDEWALK AT AN EXISTING JOINT. WHEN TRANSITIONING FROM A PROPOSED 4 FOOT (OR 5 FOOT) WIDTH TO EXISTING, USE A 10 FOOT TRANSITION LENGTH. SAW CUT FULL-DEPTH FOR REMOVAL OF SIDEWALK.

3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

5. ELEVATIONS SHOWN ARE TO THE TOP OF SIDEWALK UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO THE CONSTRUCTION OF ANY RAMP OR SIDEWALK. ANY ADJUSTMENTS NECESSARY TO MEET EXISTING FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.



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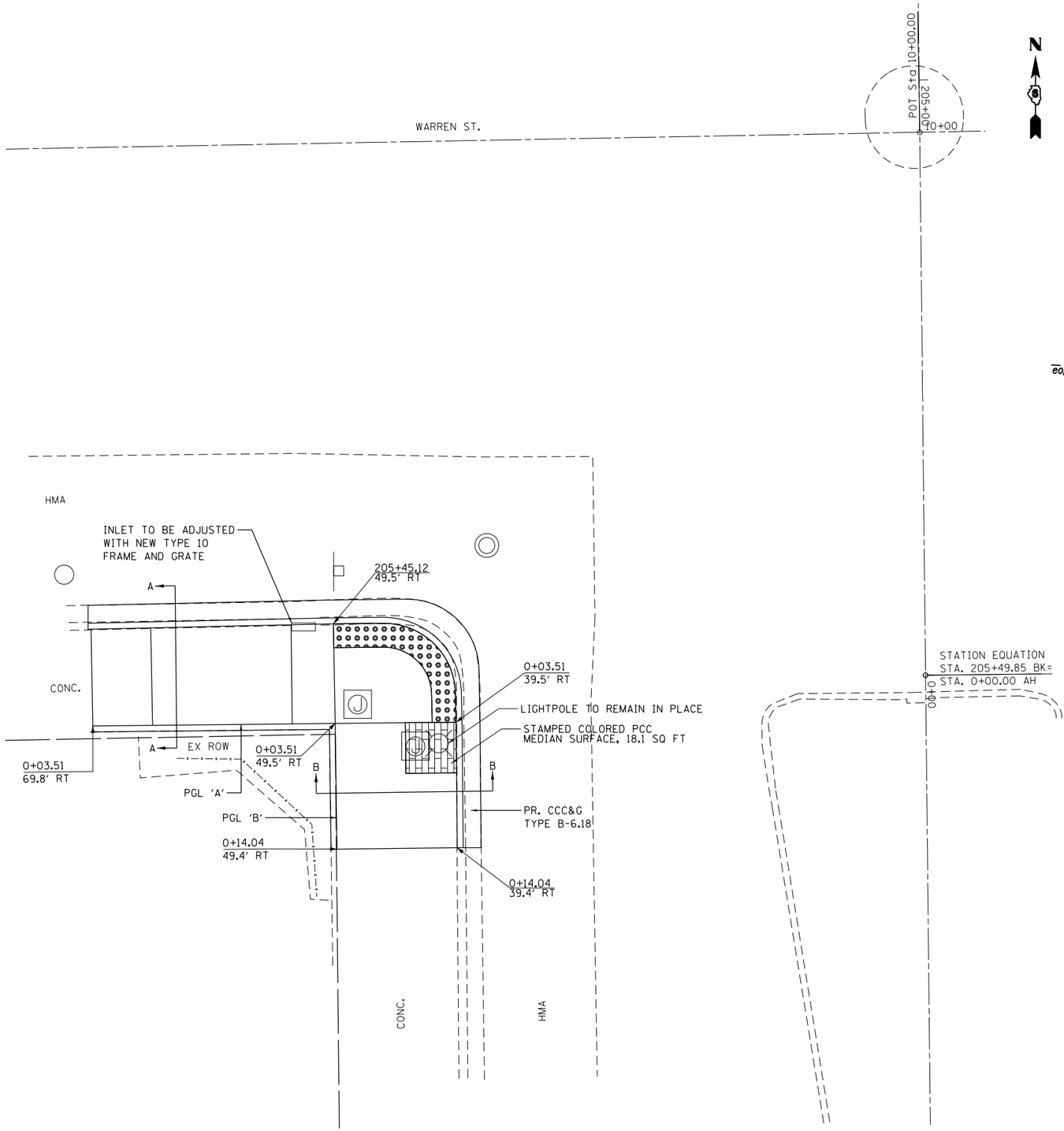
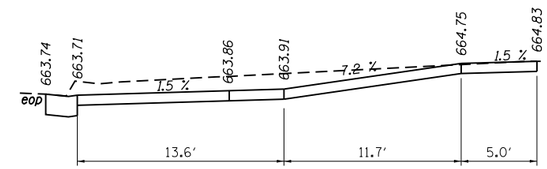
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 /HAMILTON ST.
PLAN SHEETS /SIDEWALK DETAILS

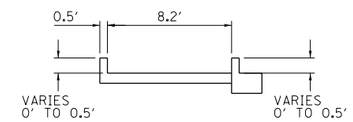
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	15
		CONTRACT NO. 72J13		
		ILLINOIS FED. AID PROJECT		

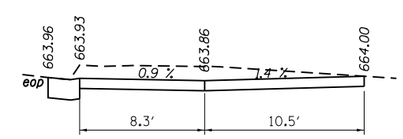




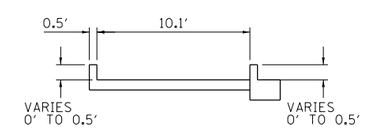
PROFILE 'A'



SECTION A-A



PROFILE 'B'



SECTION B-B

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.
2. MATCH PROPOSED SIDEWALK TO THE EXISTING SIDEWALK AT AN EXISTING JOINT. WHEN TRANSITIONING FROM A PROPOSED 4 FOOT (OR 5 FOOT) WIDTH TO EXISTING, USE A 10 FOOT TRANSITION LENGTH. SAW CUT FULL-DEPTH FOR REMOVAL OF SIDEWALK.
3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.
4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄
5. ELEVATIONS SHOWN ARE TO THE TOP OF SIDEWALK UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO THE CONSTRUCTION OF ANY RAMP OR SIDEWALK. ANY ADJUSTMENTS NECESSARY TO MEET EXISTING FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

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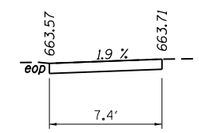
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 /WARREN ST.
PLAN SHEETS /SIDEWALK DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	16
		CONTRACT NO. 72J13		
		ILLINOIS FED. AID PROJECT		



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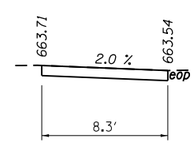

PROFILE 'B'

NOTES:

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3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

5. ELEVATIONS SHOWN ARE TO THE TOP OF SIDEWALK UNLESS OTHERWISE NOTED.

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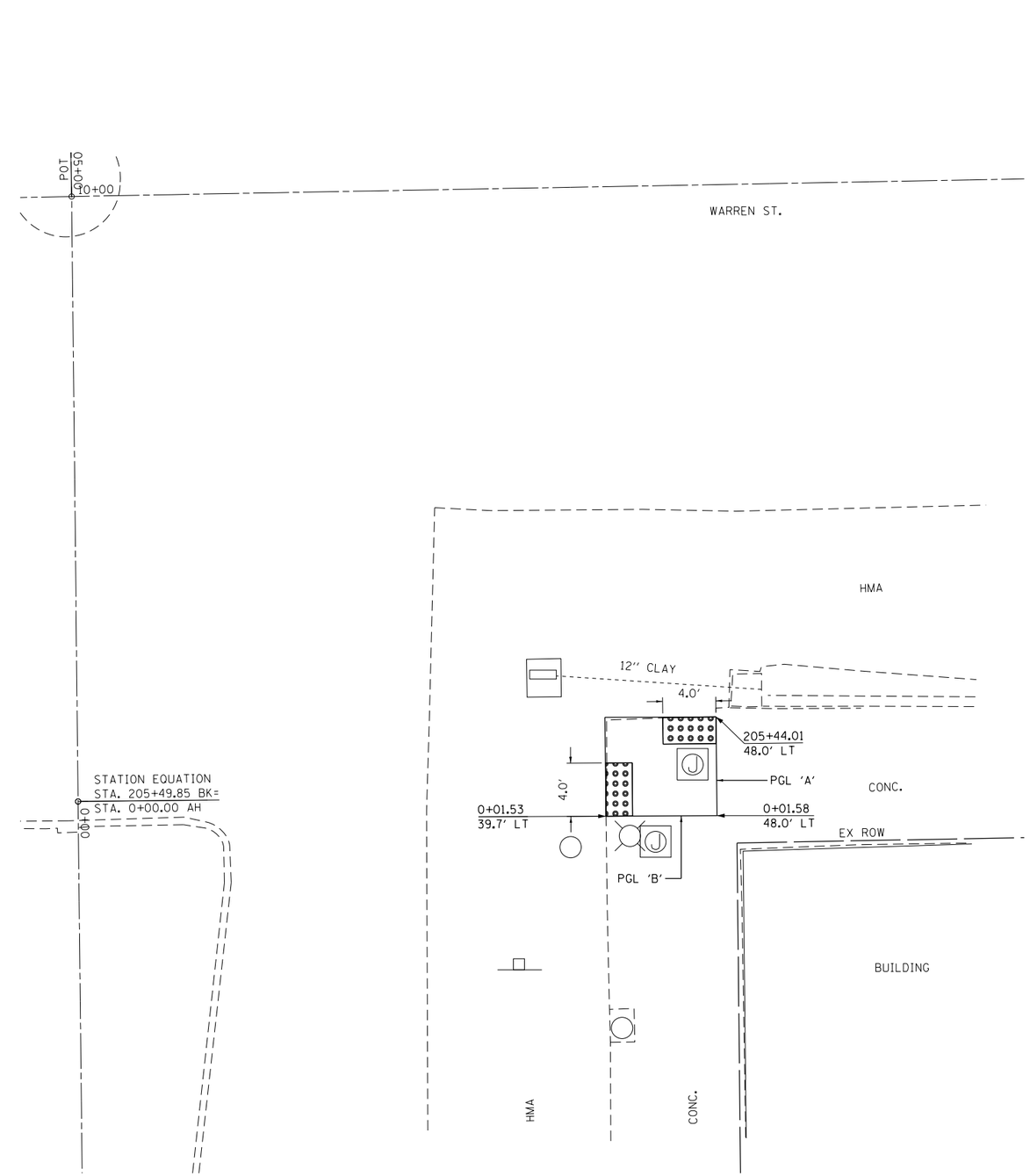

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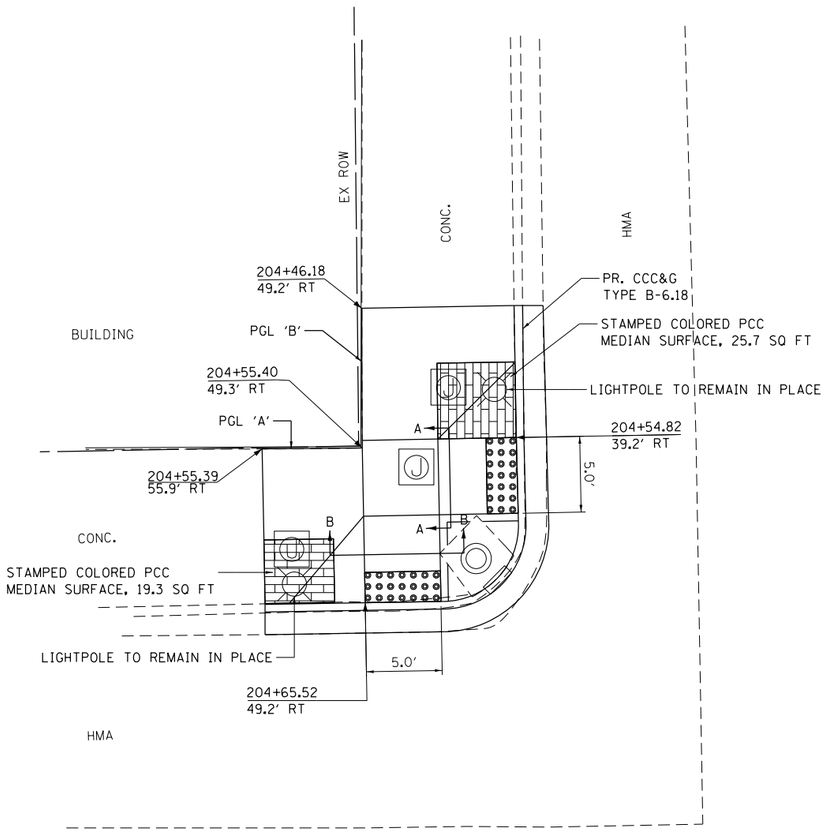
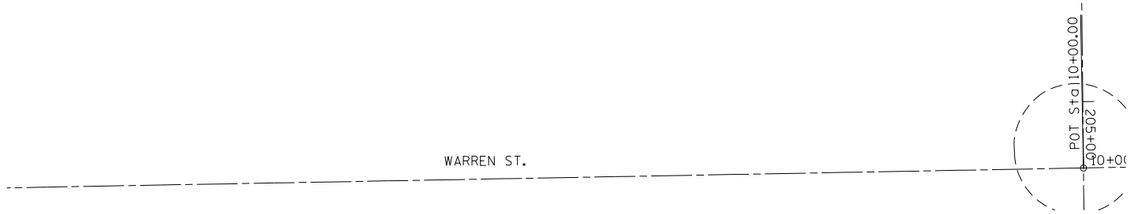
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

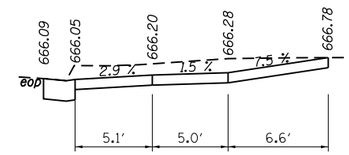
IL 159 /WARREN ST.
PLAN SHEETS /SIDEWALK DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

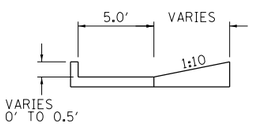
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	17
		CONTRACT NO. 72J13		
		ILLINOIS FED. AID PROJECT		



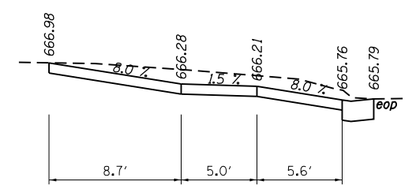




PROFILE 'A'



SECTION A-A



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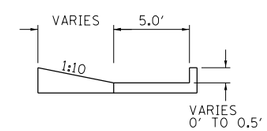

SECTION B-B

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.

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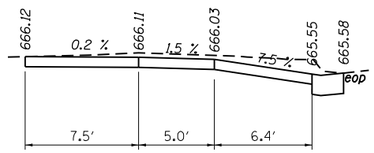
3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

5. ELEVATIONS SHOWN ARE TO THE TOP OF SIDEWALK UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO THE CONSTRUCTION OF ANY RAMP OR SIDEWALK. ANY ADJUSTMENTS NECESSARY TO MEET EXISTING FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.



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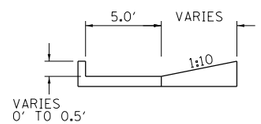
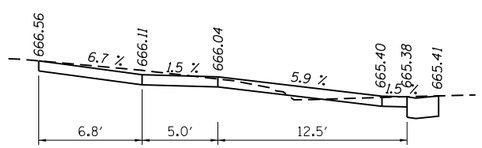
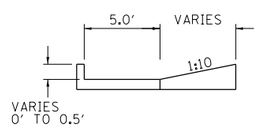


SECTION A-A



PROFILE 'B'



SECTION B-B

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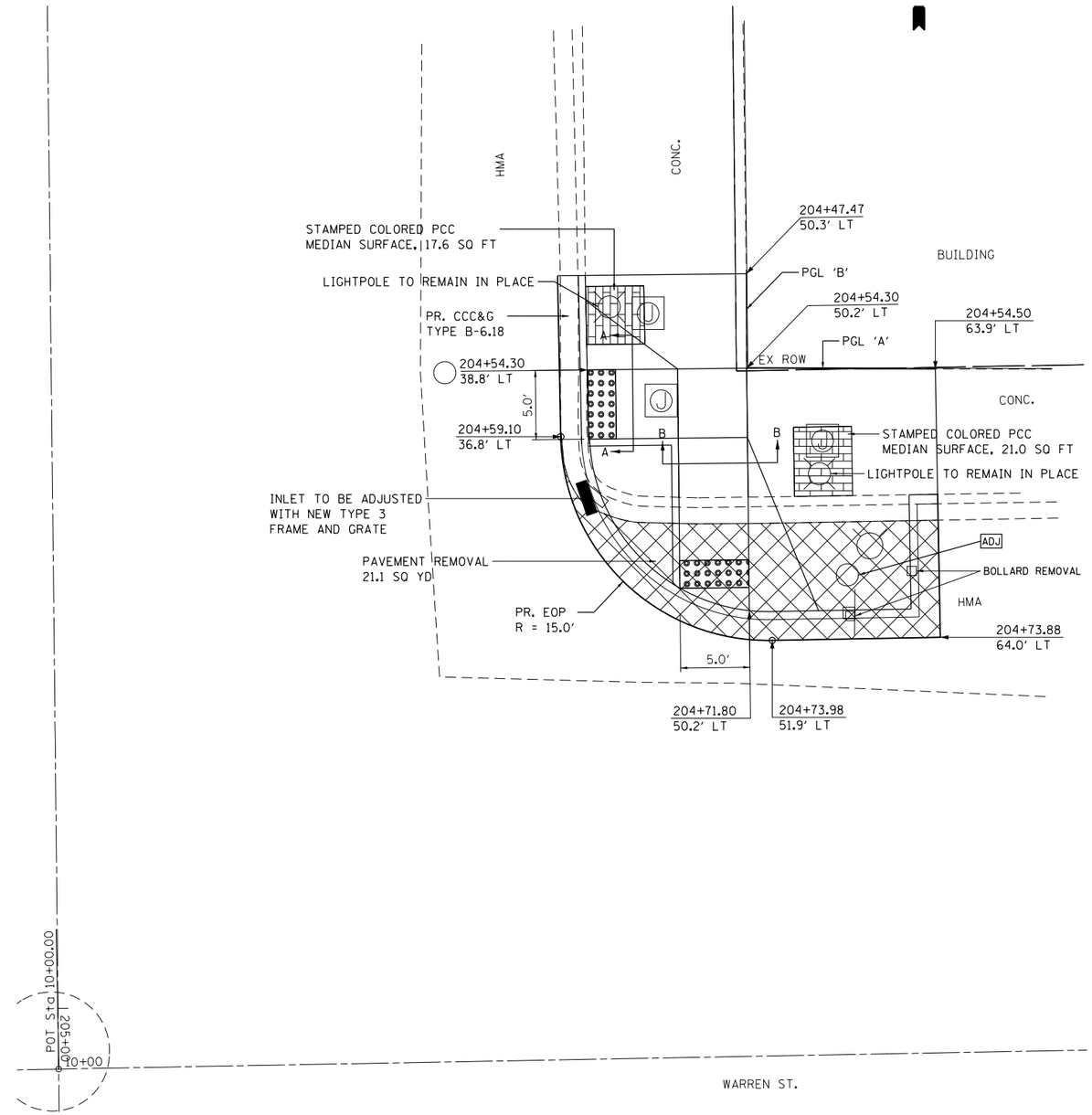

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		DRAWN -	REVISED -			604	D6 MACOUPIN CO. ADA	MACOUPIN	33 / 19
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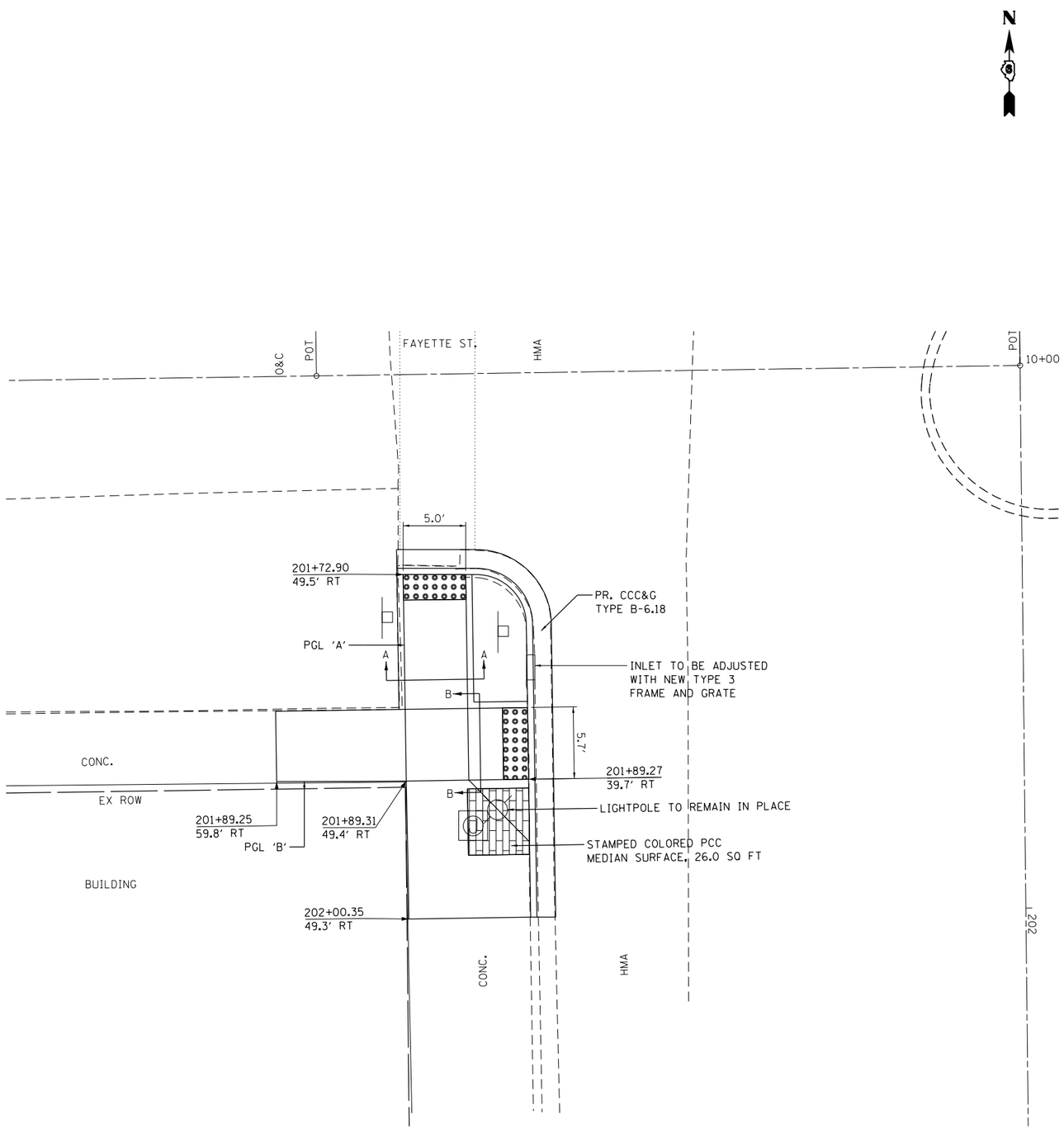

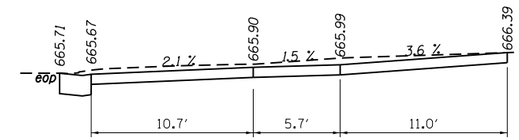

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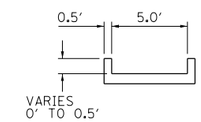
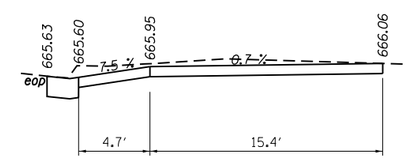
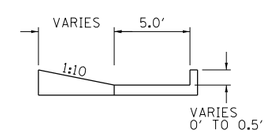


SECTION A-A



PROFILE 'B'



SECTION B-B

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.

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3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

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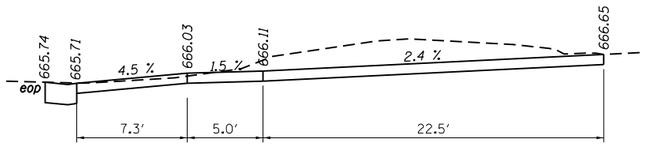
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

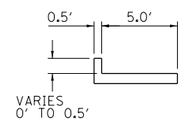
IL 159 /FAYETTE ST.
PLAN SHEETS /SIDEWALK DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

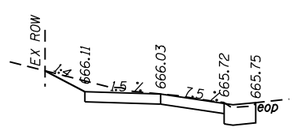
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	20
		CONTRACT NO. 72J13		
		ILLINOIS FED. AID PROJECT		



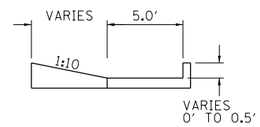
PROFILE 'A'



SECTION A-A



PROFILE 'B'



SECTION B-B

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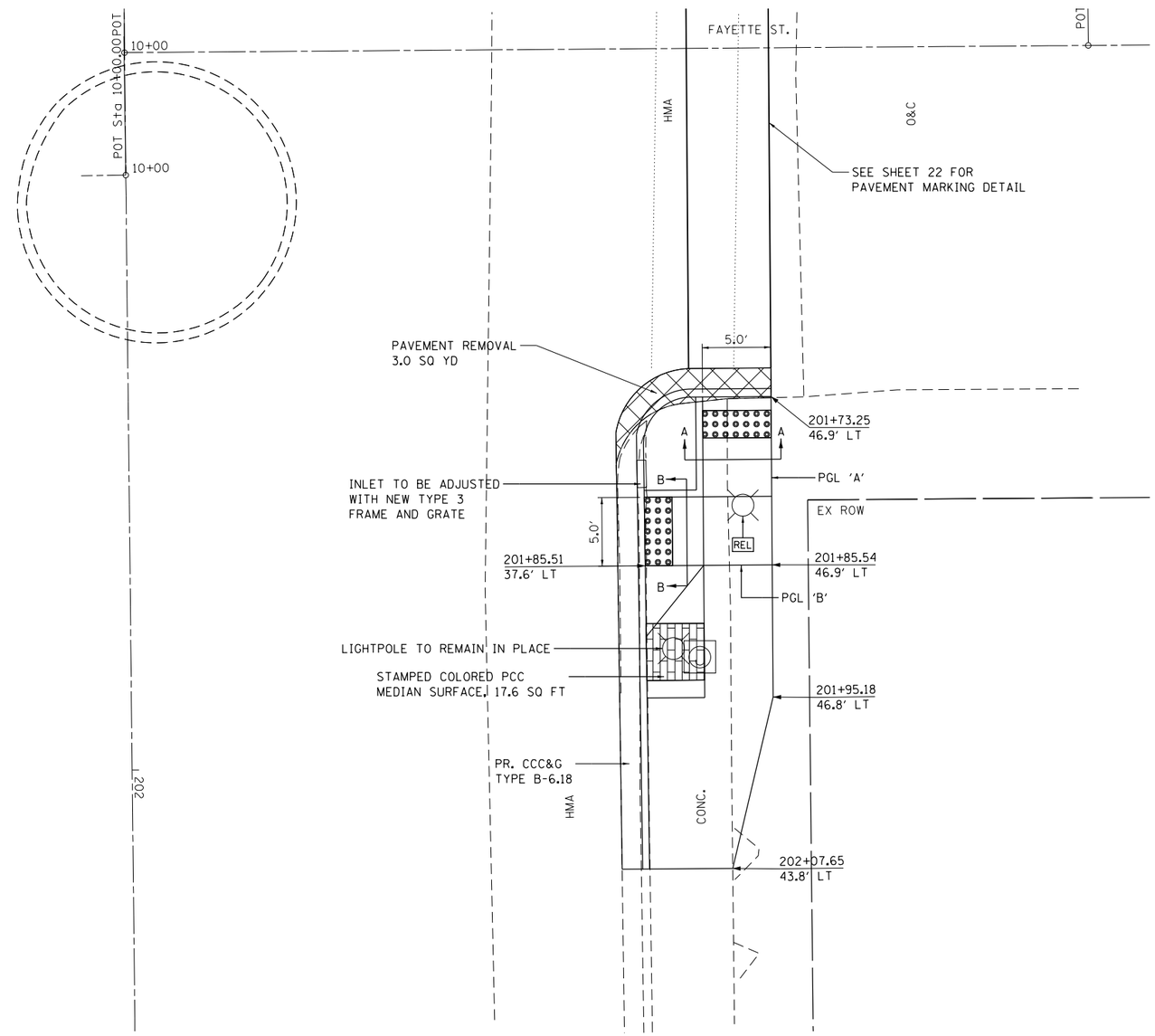

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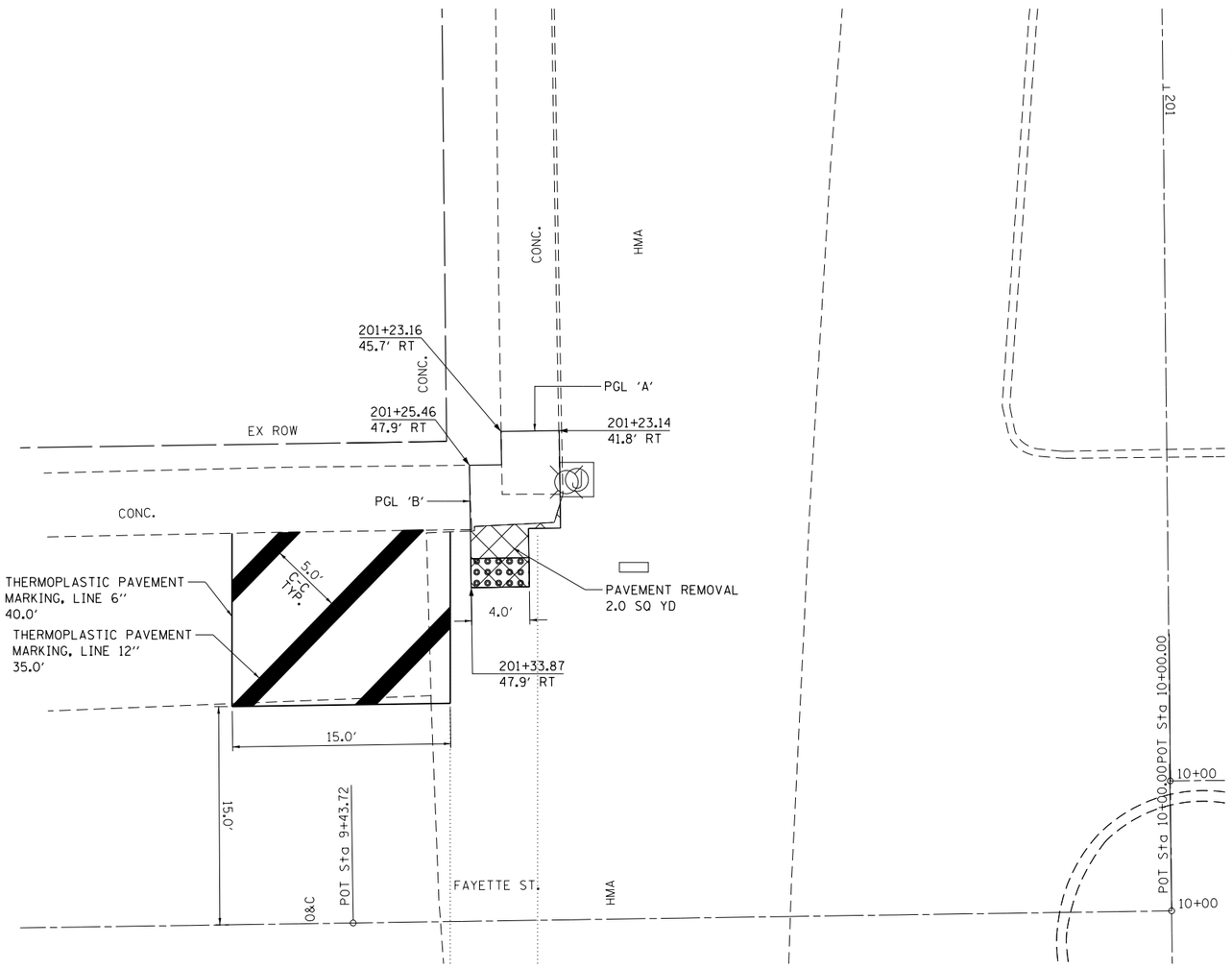
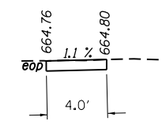
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 /FAYETTE ST.
PLAN SHEETS /SIDEWALK DETAILS

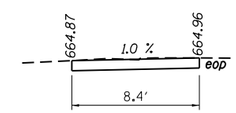
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	21
		CONTRACT NO. 72J13		
		ILLINOIS FED. AID PROJECT		





PROFILE 'A'



PROFILE 'B'

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.

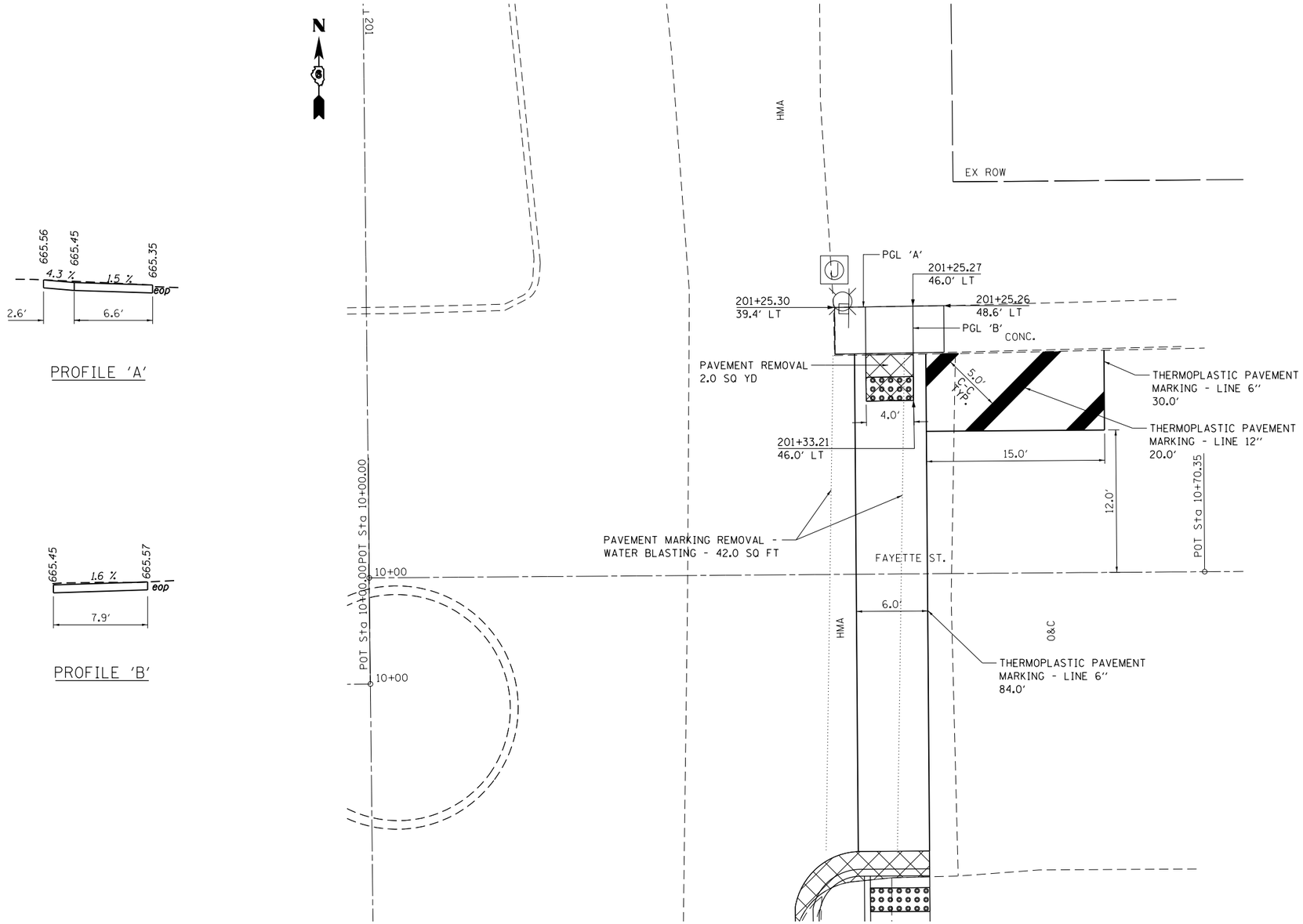
2. MATCH PROPOSED SIDEWALK TO THE EXISTING SIDEWALK AT AN EXISTING JOINT. WHEN TRANSITIONING FROM A PROPOSED 4 FOOT (OR 5 FOOT) WIDTH TO EXISTING, USE A 10 FOOT TRANSITION LENGTH. SAW CUT FULL-DEPTH FOR REMOVAL OF SIDEWALK.

3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

5. ELEVATIONS SHOWN ARE TO THE TOP OF SIDEWALK UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO THE CONSTRUCTION OF ANY RAMP OR SIDEWALK. ANY ADJUSTMENTS NECESSARY TO MEET EXISTING FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.



PROFILE 'A'

PROFILE 'B'

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.

2. MATCH PROPOSED SIDEWALK TO THE EXISTING SIDEWALK AT AN EXISTING JOINT. WHEN TRANSITIONING FROM A PROPOSED 4 FOOT (OR 5 FOOT) WIDTH TO EXISTING, USE A 10 FOOT TRANSITION LENGTH. SAW CUT FULL-DEPTH FOR REMOVAL OF SIDEWALK.

3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

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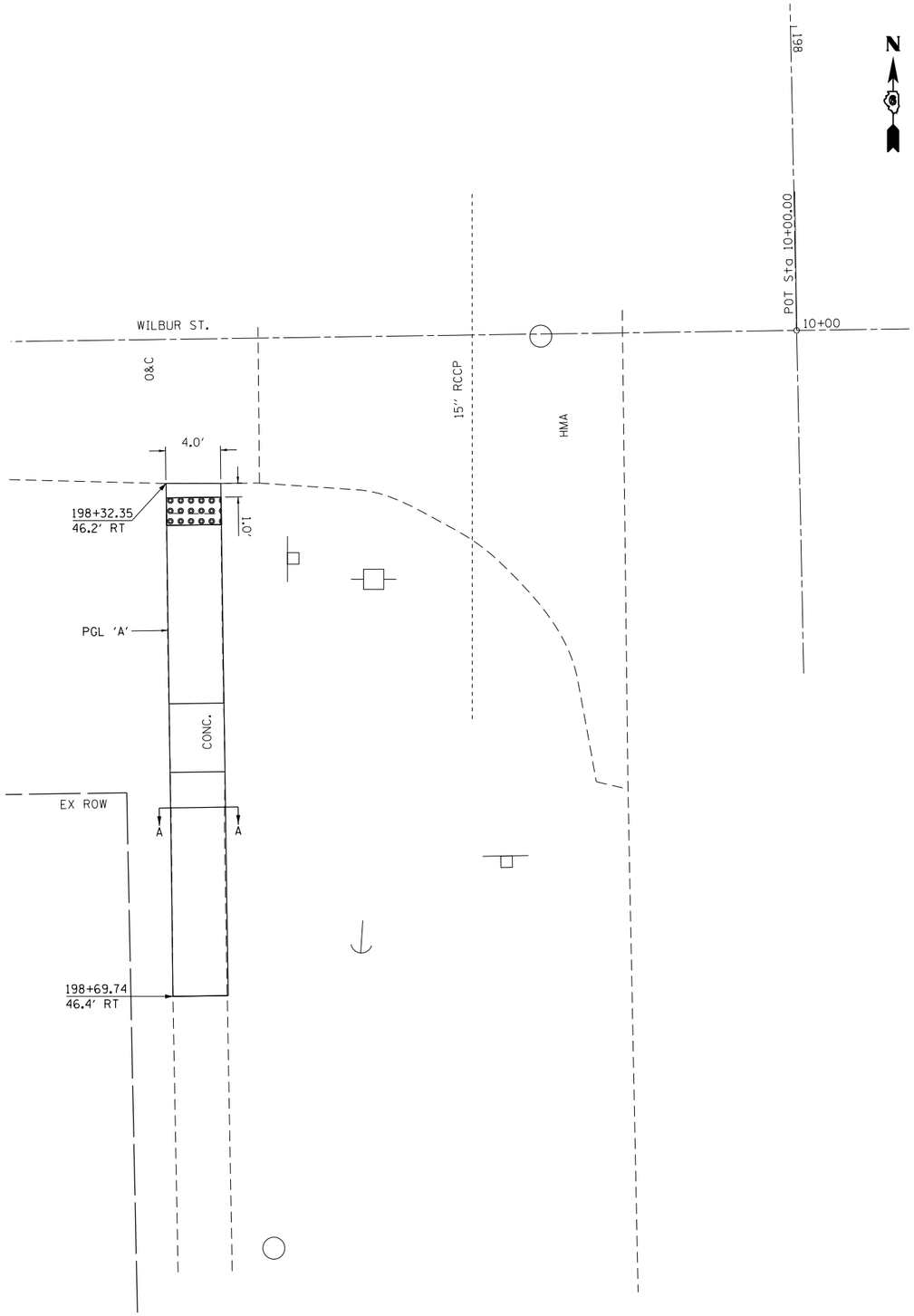

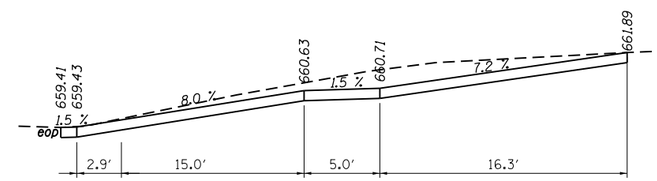

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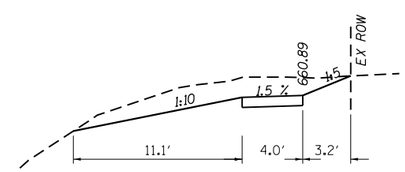


SECTION A-A

C.S.A. = 9.5 SQ. FT.
S.W. LENGTH = 37.4 FT.
EARTH EX. = 13.2 CU. YD.

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.

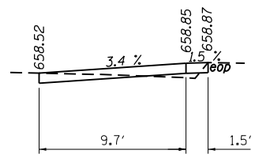
2. MATCH PROPOSED SIDEWALK TO THE EXISTING SIDEWALK AT AN EXISTING JOINT. WHEN TRANSITIONING FROM A PROPOSED 4 FOOT (OR 5 FOOT) WIDTH TO EXISTING, USE A 10 FOOT TRANSITION LENGTH. SAW CUT FULL-DEPTH FOR REMOVAL OF SIDEWALK.

3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

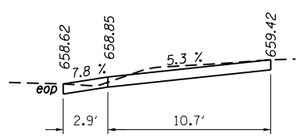
4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

5. ELEVATIONS SHOWN ARE TO THE TOP OF SIDEWALK UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO THE CONSTRUCTION OF ANY RAMP OR SIDEWALK. ANY ADJUSTMENTS NECESSARY TO MEET EXISTING FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.



PROFILE 'A'



PROFILE 'B'

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.

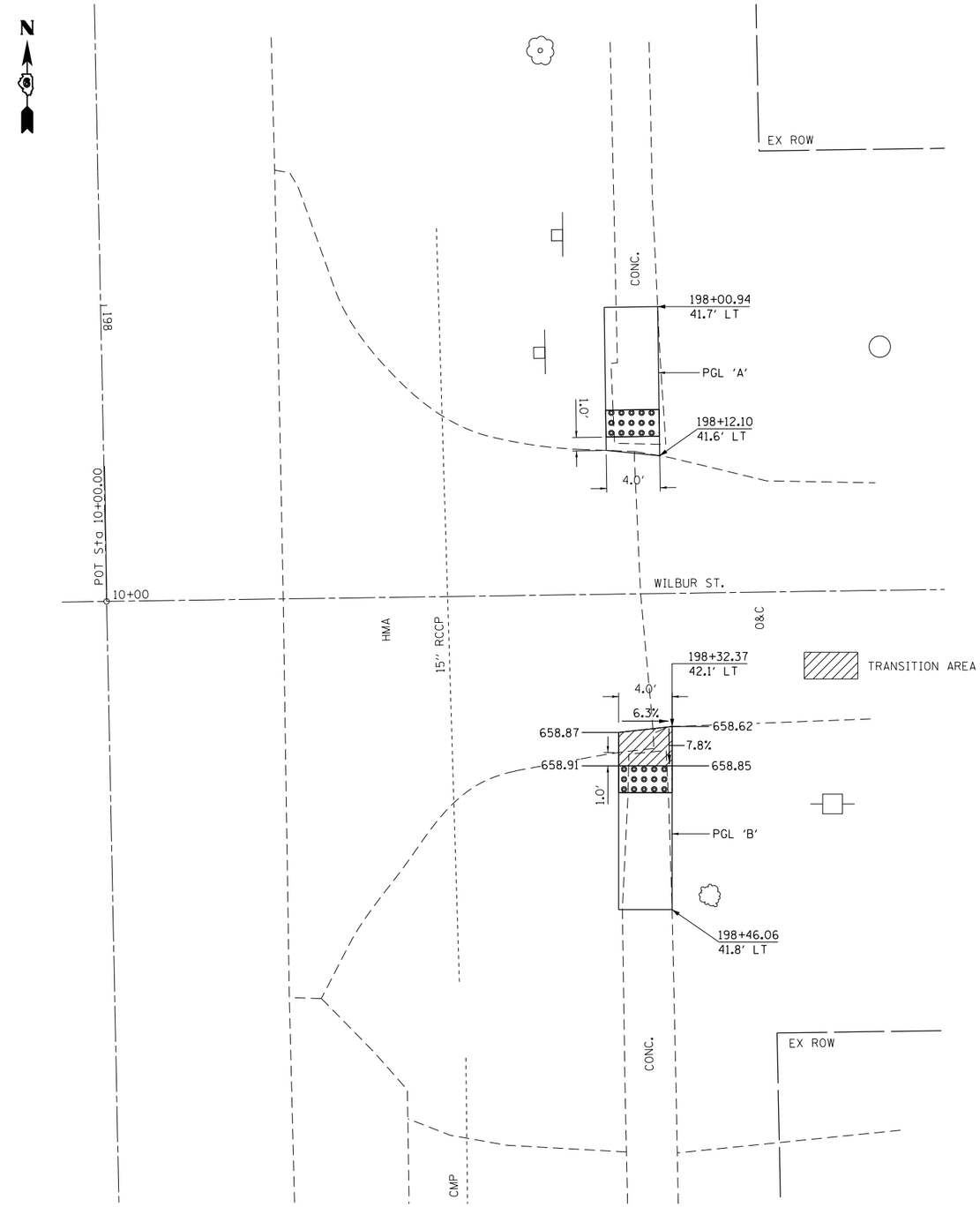
2. MATCH PROPOSED SIDEWALK TO THE EXISTING SIDEWALK AT AN EXISTING JOINT. WHEN TRANSITIONING FROM A PROPOSED 4 FOOT (OR 5 FOOT) WIDTH TO EXISTING, USE A 10 FOOT TRANSITION LENGTH. SAW CUT FULL-DEPTH FOR REMOVAL OF SIDEWALK.

3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

5. ELEVATIONS SHOWN ARE TO THE TOP OF SIDEWALK UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO THE CONSTRUCTION OF ANY RAMP OR SIDEWALK. ANY ADJUSTMENTS NECESSARY TO MEET EXISTING FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.



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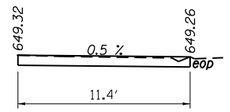
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

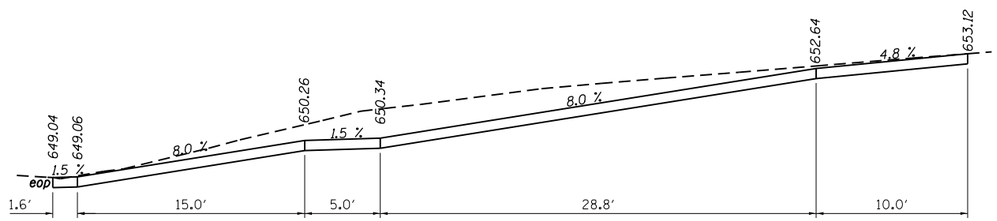
IL 159 /WILBUR ST.
PLAN SHEETS /SIDEWALK DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

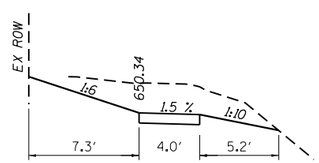
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	25
		CONTRACT NO. 72J13		
	ILLINOIS FED. AID PROJECT			



PROFILE 'A'



PROFILE 'B'



SECTION B-B

C.S.A. = 10.9 SQ. FT.
S.W. LENGTH = 60.4 FT.
EARTH EX. = 24.4 CU. YD.

NOTES:

1. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER AT THE APPROXIMATE LOCATIONS SHOWN ON THE DRAWING. SAW CUT FULL-DEPTH FOR REMOVAL OF CURB AND GUTTER.

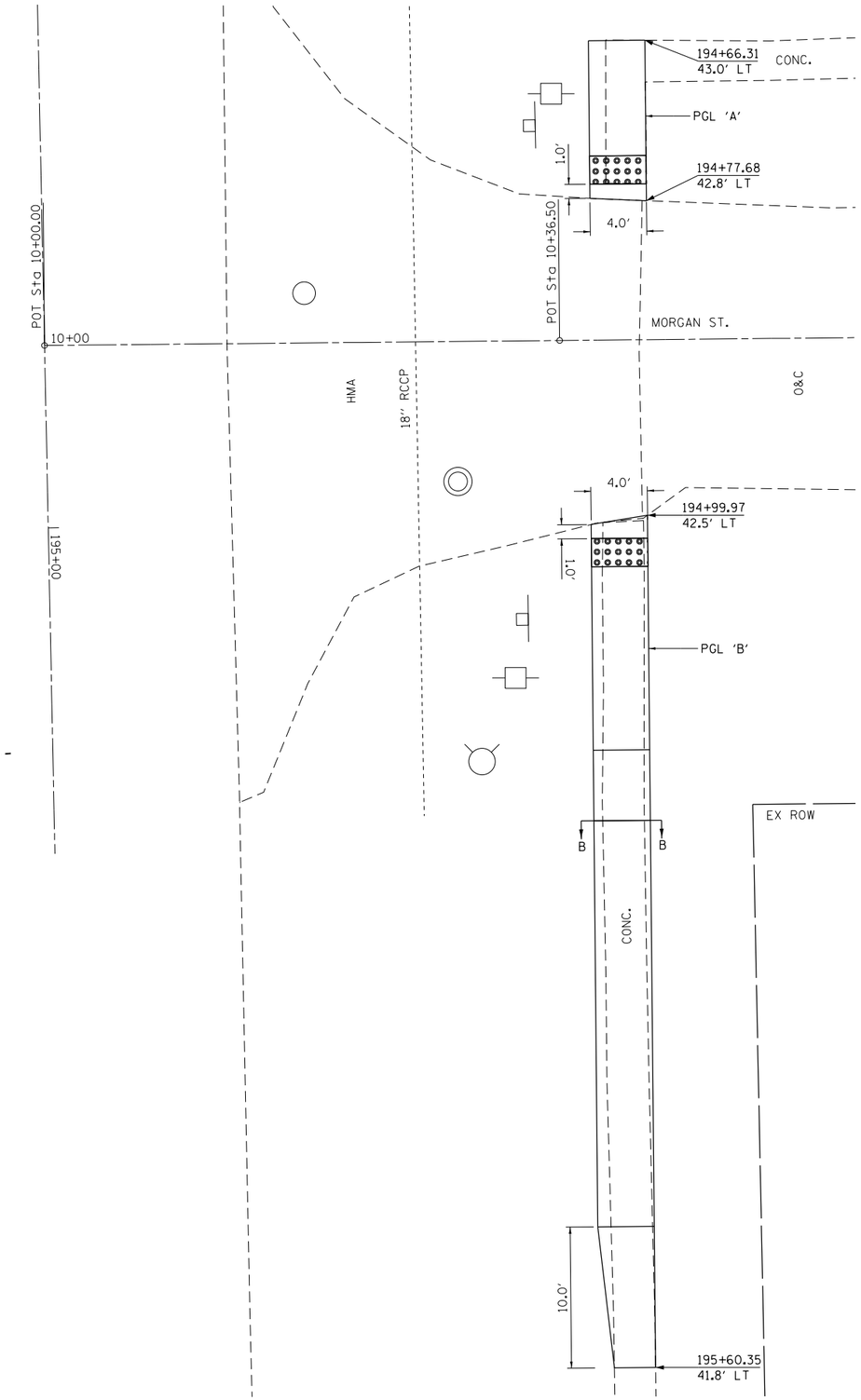
2. MATCH PROPOSED SIDEWALK TO THE EXISTING SIDEWALK AT AN EXISTING JOINT. WHEN TRANSITIONING FROM A PROPOSED 4 FOOT (OR 5 FOOT) WIDTH TO EXISTING, USE A 10 FOOT TRANSITION LENGTH. SAW CUT FULL-DEPTH FOR REMOVAL OF SIDEWALK.

3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

4. STATION & OFFSETS ARE FROM IL RTE. 159 ℄

5. ELEVATIONS SHOWN ARE TO THE TOP OF SIDEWALK UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS PRIOR TO THE CONSTRUCTION OF ANY RAMP OR SIDEWALK. ANY ADJUSTMENTS NECESSARY TO MEET EXISTING FIELD CONDITIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.



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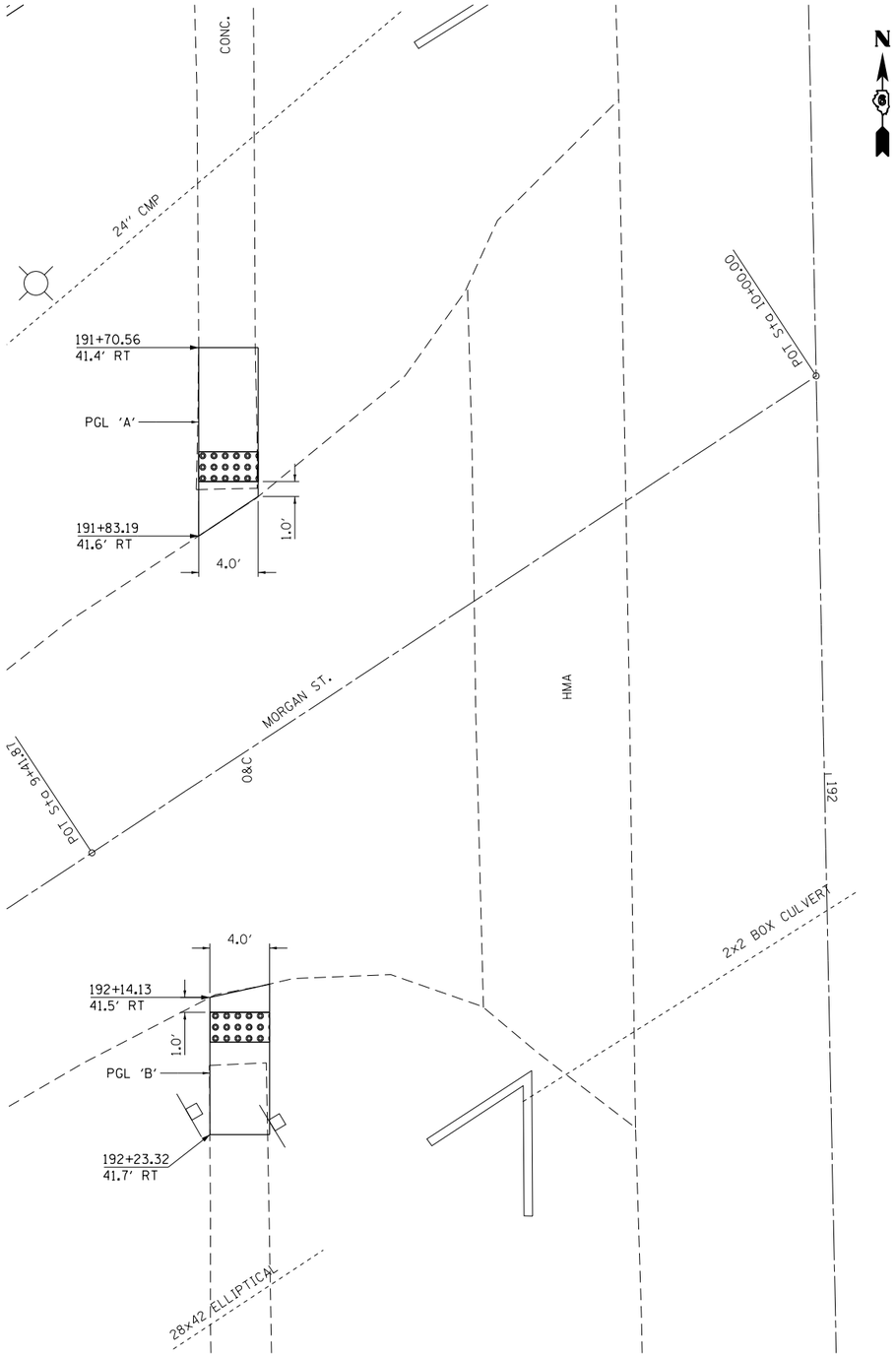
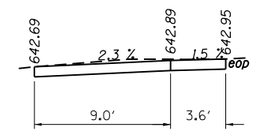
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 /MORGAN ST.
PLAN SHEETS /SIDEWALK DETAILS

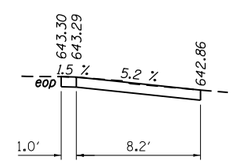
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	26
		CONTRACT NO. 72J13		
		ILLINOIS FED. AID PROJECT		





PROFILE 'A'



PROFILE 'B'

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3. SEE IDOT STD. 424001 FOR DETAILS OF PERPENDICULAR CURB RAMPS FOR SIDEWALKS.

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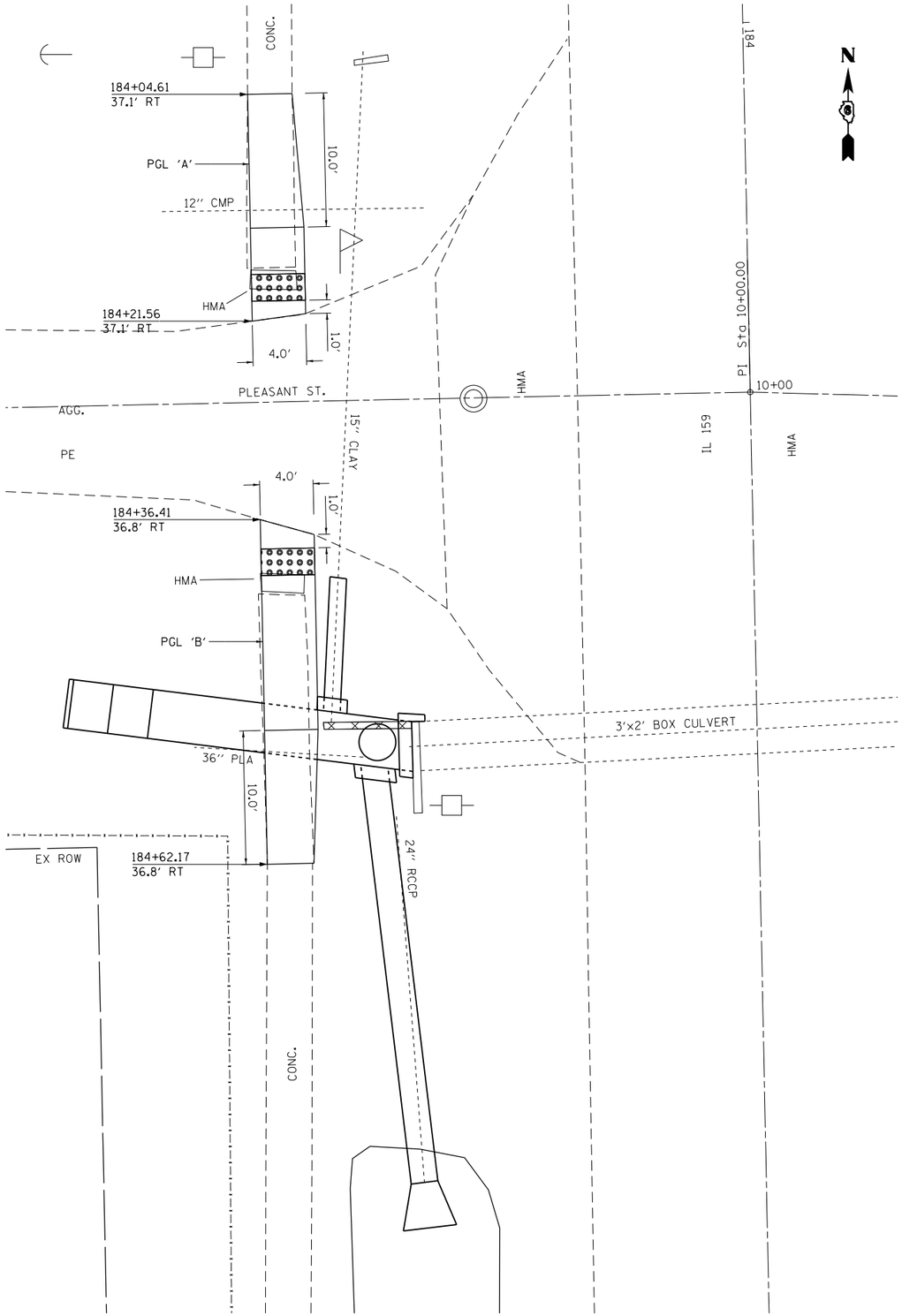
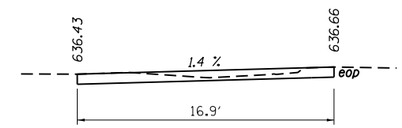
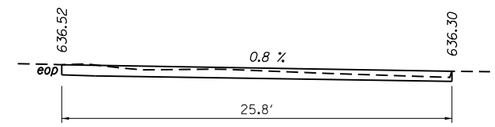




PROFILE 'A'



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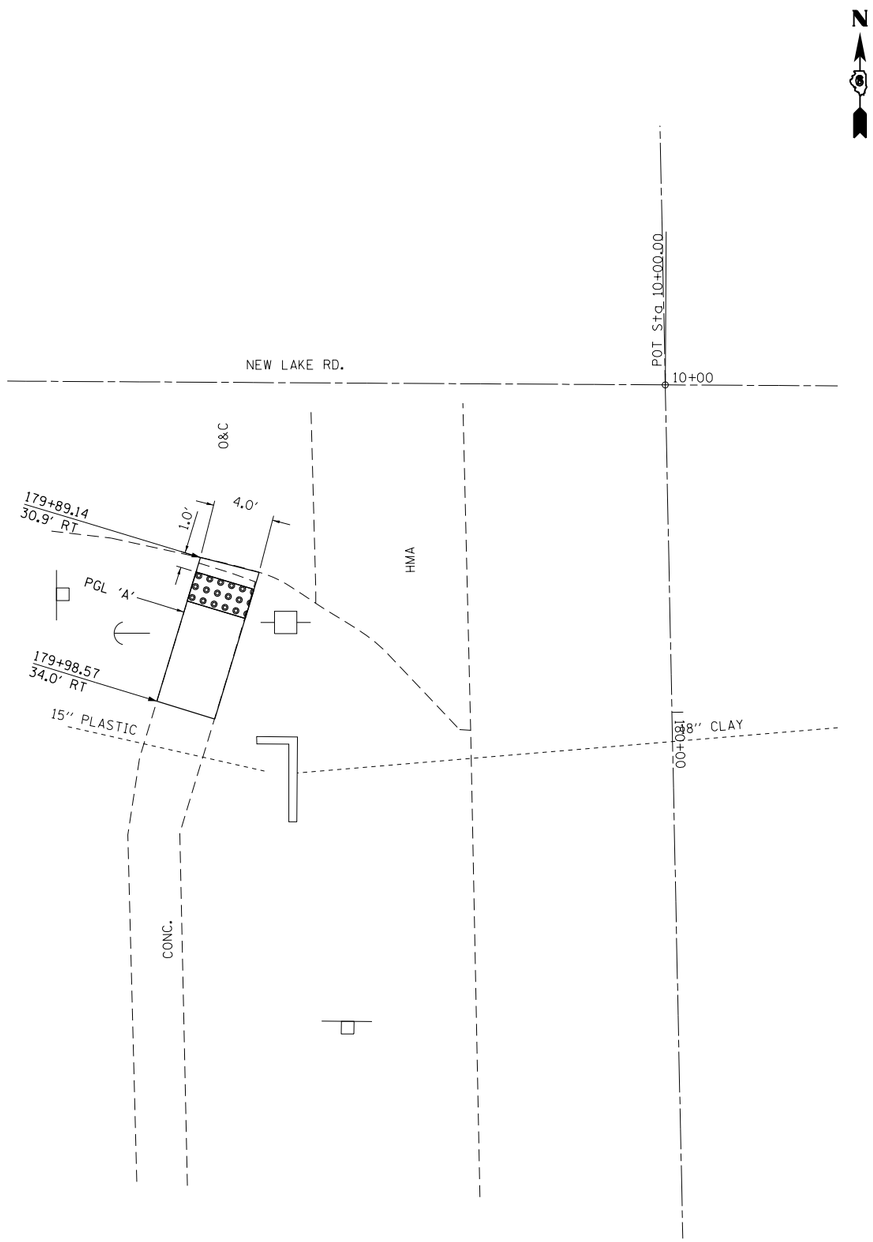

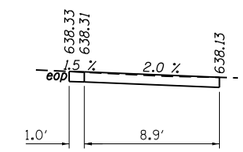

PROFILE 'A'

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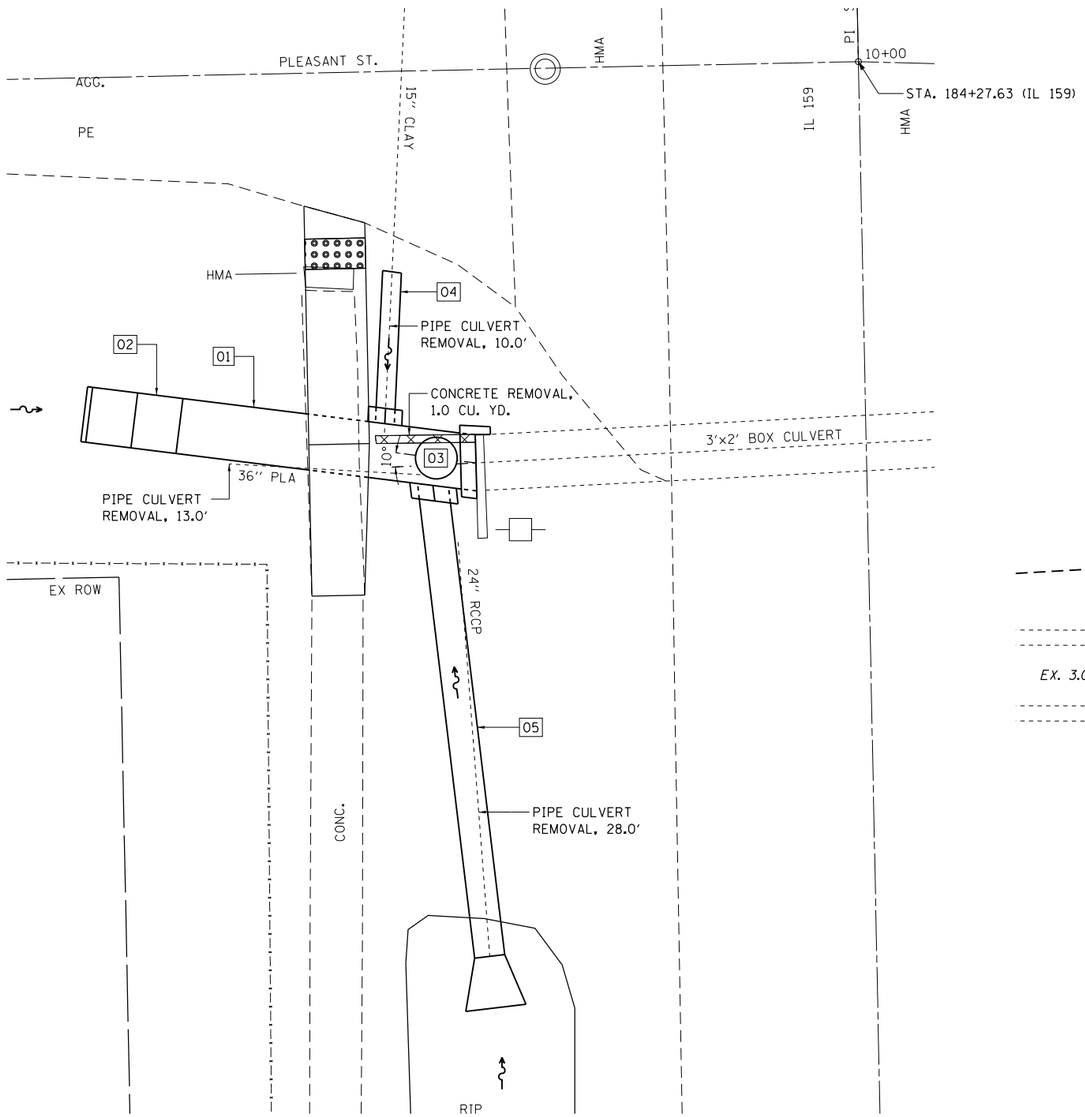


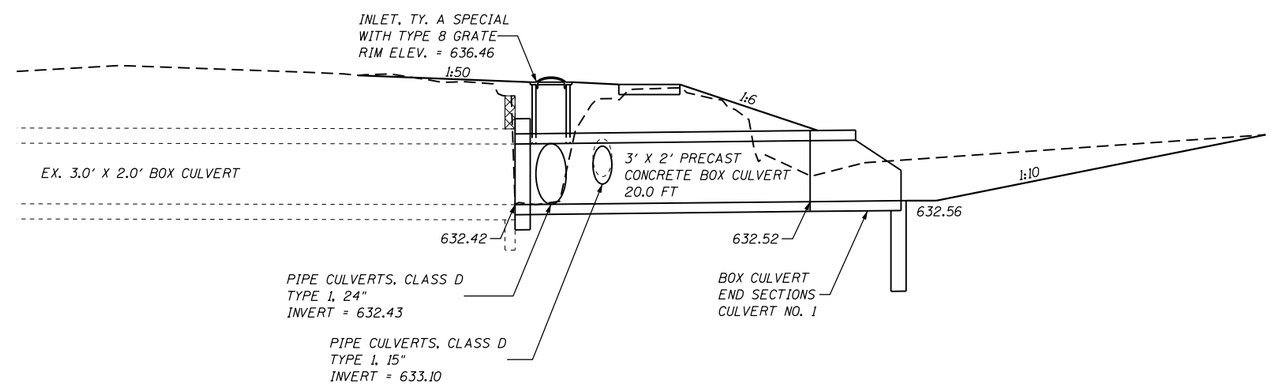
01 STA. 184+53.59; 25.8' RT
PRECAST CONC. BOX CULV.
3 FT X 2 FT, 0.5% SLOPE
SKEW = 10.0°
U.S.F.L. ELEV. = 632.52
D.S.F.L. ELEV. = 632.42

02 STA. 184+50.76; 45.3' RT
BOX CULVERT END SECTION
U.S.F.L. ELEV. = 632.56
D.S.F.L. ELEV. = 632.52

03 STA. 184+53.21; 28.4' RT
INLET TYPE A SPECIAL
W/ TYPE 8 GRATE
DIA. = 24"
RIM ELEV. = 636.46

04 STA. 184+40.87; 31.1' RT
PIPE CULVERT, 10.0 FT.
CL. D, TY. 1, 15"
SKEW = 4.4°
U.S.F.L. = MATCH EXISTING
D.S.F.L. = 633.10

05 STA. 184+86.18; 25.5' RT
PIPE CULVERT, 32.0 FT.
CL. D, TY. 1, 24"
W/ METAL END SECTION
SKEW = 14°
U.S.F.L. ELEV. = 633.182
D.S.F.L. ELEV. = 632.43



NOTES:

ALL GRADING AND SHAPING TO MATCH INTO EXISTING DITCH SHALL BE INCLUDED IN QUANTITY FOR EARTH EXCAVATION.

MAINTAIN A MINIMUM OF 2.0' BETWEEN OPENINGS FOR CONNECTING PIPE CULVERTS.

SEE DETAIL SHEETS FOR DIMENSIONS AND REINFORCEMENT FOR BOX CULVERT EXTENSION AND CONCRETE COLLARS.

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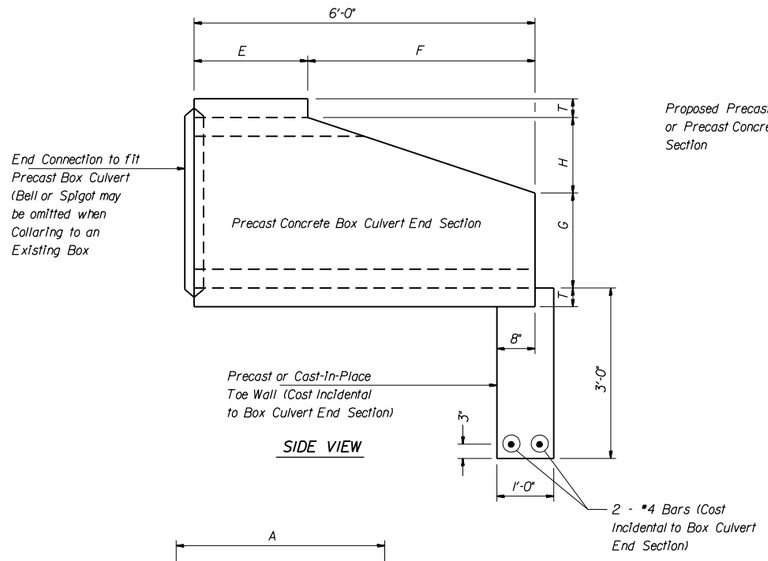
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 159 /PLEASANT ST.
DRAINAGE IMPROVEMENTS

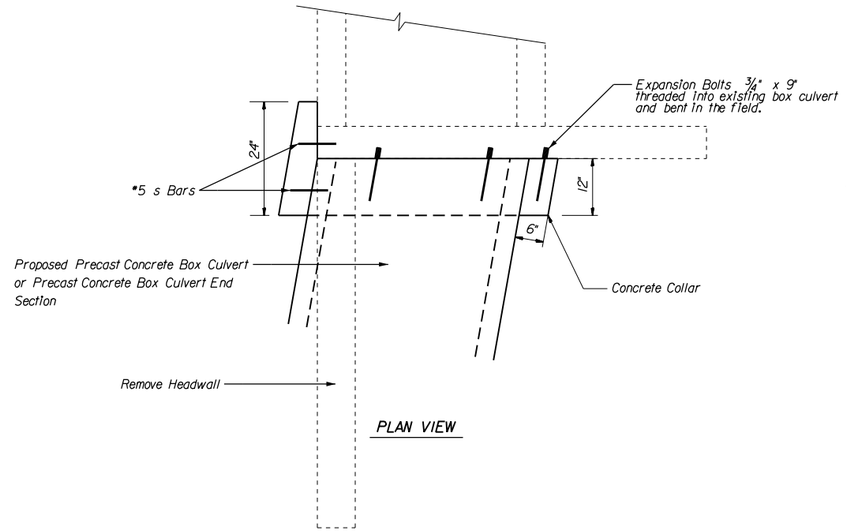
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	30
		CONTRACT NO. 72J13		
		ILLINOIS FED. AID PROJECT		

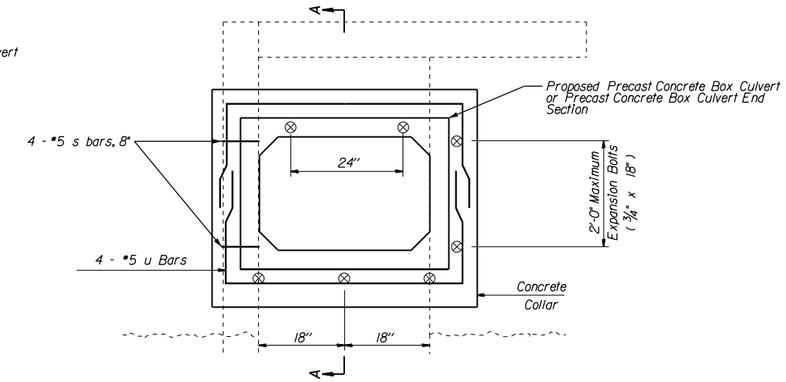
NOTE:
Expansion Bolts shall consist of self drilling expansion shields and ¾" diameter hooked bolts. Hooked bolts shall extend a minimum distance as specified, 9" or 18" into the new concrete. Minimum certified proof load = 4080 lbs.



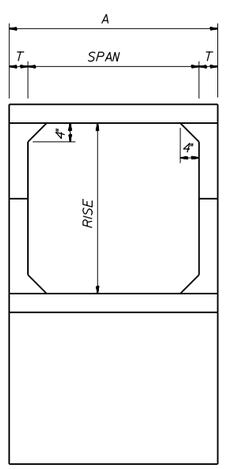
SIDE VIEW



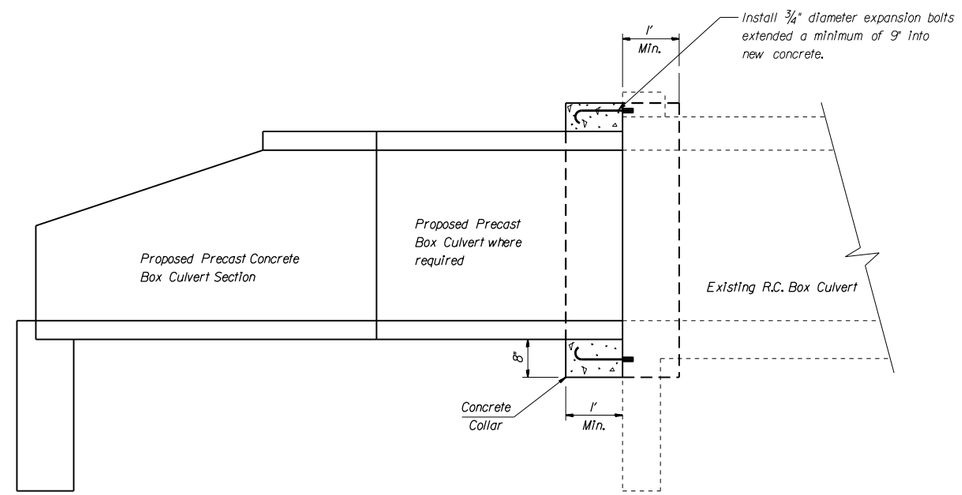
PLAN VIEW



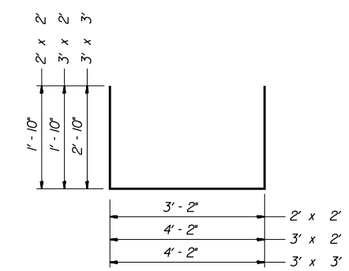
END VIEW



END VIEW



SECTION A - A



Bar u

Span x Rise	T	A	E	F	G	H
2' x 2'	4"	2'-8'	3'-0'	3'-0"	1'-0"	1'-0"
3' x 2'	4"	3'-8"	3'-0"	3'-0"	1'-0"	1'-0"
3' x 3'	4"	3'-8"	2'-0"	4'-0"	1'-8"	1'-4"

NOTE:

Removal of existing headwalls, portions of existing top slabs shall be paid for at the contract unit price for Concrete Headwall Removal.

✳ The dimensions shown are the minimum extensions of the expansion bolts into the new concrete.

SCHEDULE OF ESTIMATED QUANTITIES

STATION	SIZE	CONCRETE HEADWALL REMOVAL	CONCRETE COLLAR	EXPANSION BOLTS	REINFORCEMENT BARS
	(FT)	(C.Y.)	(C.Y.)	(EA.)	(LBS)
184+53.60 RIGHT	3' X 2'	1.0	0.37	7	35.5

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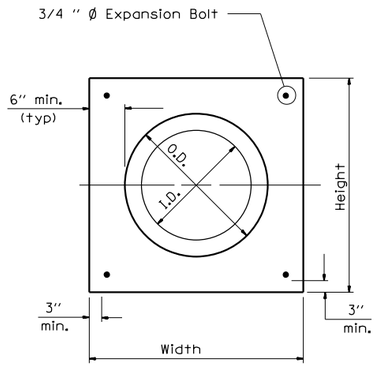
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
Default PRECSTEXT.DGN	PLOT DATE = 2/3/2017	DATE - 1/09/96	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

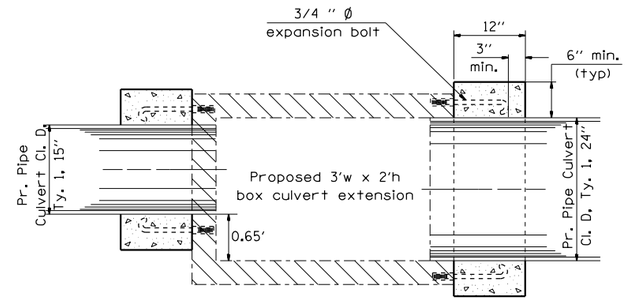
CULVERT EXTENSION DETAILS

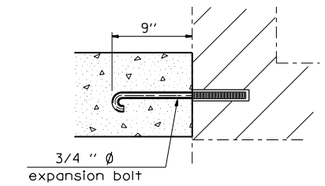
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	31
		CONTRACT NO. 72J13		
		ILLINOIS FED. AID PROJECT		



PIPE CULVERT COLLAR



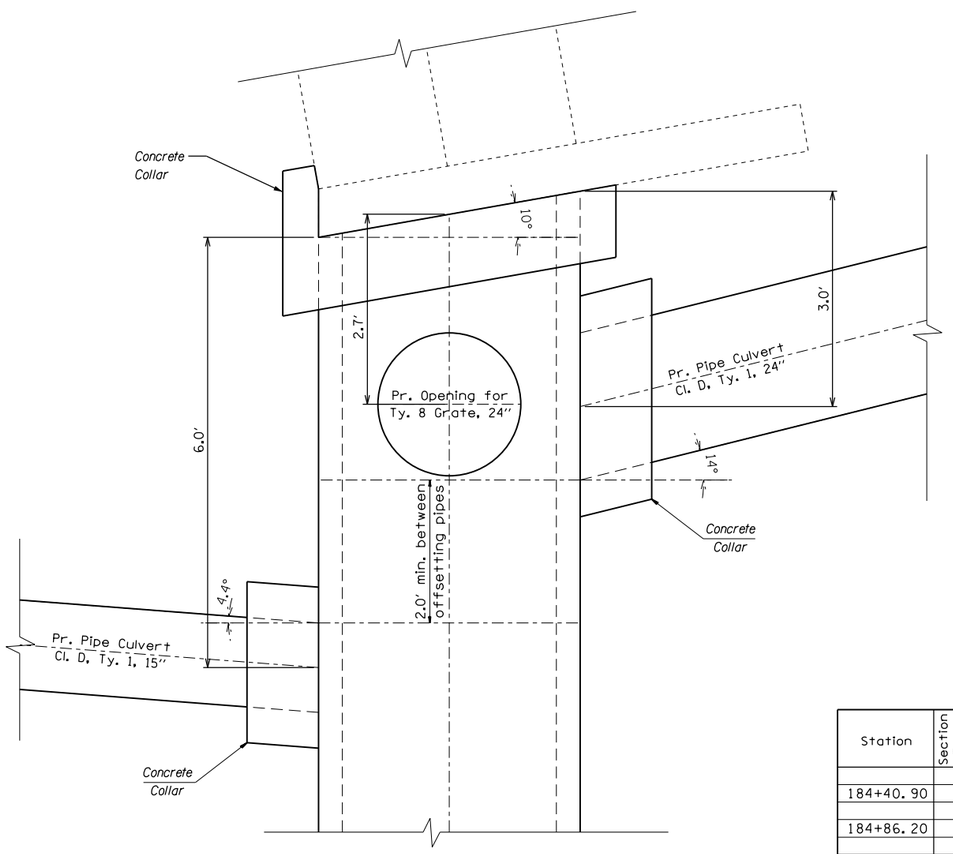


Expansion Bolt Detail

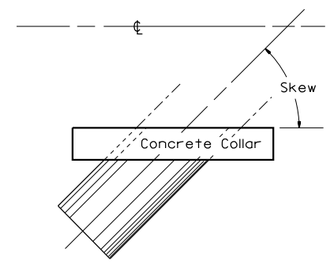
Notes:

1. Expansion bolts shall consist of self drilling expansion shields and ¾" Ø hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete. Minimum Certified Proof Load - 4,080 lbs.

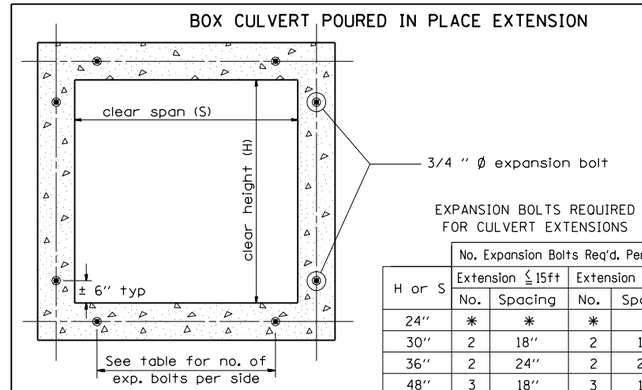
2. Use minimum of 1 (one) expansion bolt at each corner.



PLAN VIEW



BOX CULVERT POURED IN PLACE EXTENSION



Section Thru Barrel

EXPANSION BOLTS REQUIRED
FOR CULVERT EXTENSIONS

H or S	No. Expansion Bolts Req'd. Per Side			
	Extension ≦ 15ft		Extension > 15ft	
	No.	Spacing	No.	Spacing
24"	*	*	*	*
30"	2	18"	2	18"
36"	2	24"	2	24"
48"	3	18"	3	18"
60"	4	16"	3	24"
72"	5	15"	4	20"
84"	5	18"	4	24"
96"	6	17"	5	21"
108"	6	19"	5	24"
120"	7	18"	6	21"
132"	8	17"	6	24"
144"	8	19"	7	22"

Note: Number of expansion bolts in table based on non-skewed culverts.

* Use minimum 1 (one) expansion bolt in each corner.

Station	Section Type	Skew	Existing Culvert	Proposed Culvert		Collar		Expansion Bolts 3/4 "	Class SI Concrete Collar
			Size	I.D.	O.D.	Height	Width	Each	yd^3
184+40.90			3' x 2'	15"	15"	27"	27"	4	0.14
184+86.20			3' x 2'	24"	24"	36"	36"	8	0.22
							Total	12	0.36

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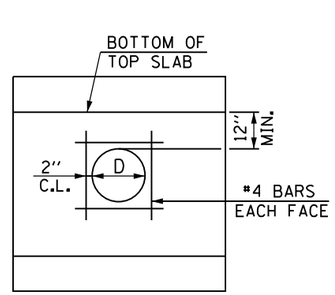
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

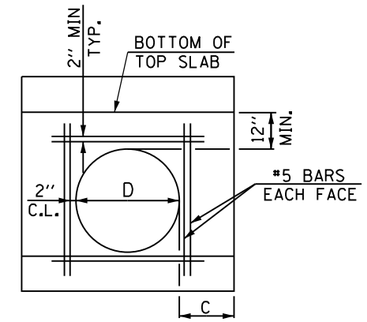
CONCRETE COLLAR AND
CULVERT EXTENSION DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	32
		CONTRACT NO. 72J13		
		ILLINOIS FED. AID PROJECT		



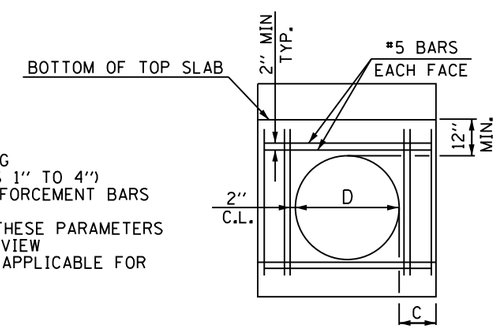
D < 1'-6''



1'-6'' < D ≤ 4'-0''

C > 2'-6''

NOTES:
D = DIAMETER OF OPENING
(TYPICALLY OD OF PIPE PLUS 1'' TO 4'')
MINIMUM LENGTH OF REINFORCEMENT BARS
AROUND OPENING = D+1'-4''
WALL OPENINGS BEYOND THESE PARAMETERS
SHALL BE SUBMITTED FOR REVIEW
THESE DETAILS ARE NOT APPLICABLE FOR
OPENINGS IN THE TOP SLAB



1'-6'' < D ≤ 4'-0''

12'' < C ≤ 2'-6''

NOTE:
ALL PRECAST CONCRETE BOX CULVERT SEGMENTS WITH PIPE CULVERTS INTERSECTING THE SIDEWALLS SHALL BE DETAILED AS PER THE REQUIREMENTS OF ASTM C1577, EXCEPT THAT THE AS2 AND AS5 REINFORCEMENT AREAS SHALL BE INCREASED TO 0.40 SQUARE INCH PER FOOT.

ADDITIONAL WALL REINFORCEMENT FOR PRECAST CONCRETE BOX CULVERTS WITH OPENINGS

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Default	PLOT DATE = 2/3/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADDITIONAL REINFORCEMENT DETAILS

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
604	D6 MACOUPIN CO. ADA	MACOUPIN	33	33
		CONTRACT NO. 72J13		
	ILLINOIS	FED. AID PROJECT		