BAR IS ONE INCH ON OFFICIAL DRAWINGS. 0 1" IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

KANSAS CITY, JACKSON COUNTY, MISSOURI

89TH STREET SIDEWALK

IMPROVEMENTS PROJECT

RIGHT OF WAY PLANS

PO: DEP89-8900008994

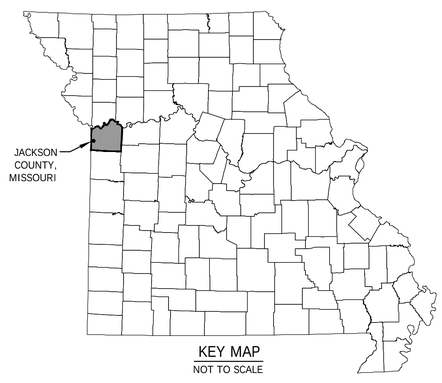
MAY 2020

LOCATION MAP
NOT TO SCALE

EXCEPTIONS
ADA COMPLIANT LONGITUDINAL SLOPES ARE NOT BEING PROVIDED DUE TO EXISTING TERRAIN RESTRICTIONS
DRIVEWAY GRADES DO NOT CONFORM TO STANDARD SPECIFICATIONS DUE TO EXISTING TERRAIN RESTRICTIONS

LEGEND

- BMK — BENCHMARK
- CONTROL POINT
- SANITARY SEWER MANHOLE
- STORM MANHOLE
- POWER POLE
- PP — LIGHT POLE
- GUY WIRE
- EM — ELECTRIC TRANSFORMER
- GM — GAS METER
- WM — WATER METER
- WATER VALVE
- SIGN
- TRAFFIC SIGNAL POLE
- TRAFFIC SIGNAL PUSH BUTTON
- TREE
- PINE TREE
- BUSH
- P-OH — OVERHEAD POWER
- P-UG — UNDERGROUND POWER
- SS — UNDERGROUND SANITARY
- G — UNDERGROUND GAS
- W — UNDERGROUND WATER
- TEL — UNDERGROUND TELEPHONE
- CATV — UNDERGROUND CABLE
- FO — UNDERGROUND FIBER OPTIC
- CHAINLINK FENCE
- WOOD FENCE
- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- PROPOSED PEDESTRIAN EASEMENT
- PROPOSED UTILITY EASEMENT
- TCE — PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- PROPOSED GRADING LIMITS
- R — REMOVE TREE
- R — ADA RAMP
- L — ADA LANDING
- PROPOSED CONCRETE CURB & GUTTER (CG-1)
- PROPOSED CONCRETE SIDEWALK
- PROPOSED CONCRETE DRIVE



KEY MAP
NOT TO SCALE

UTILITY CONTACTS:

ZAYO FIBER SOLUTIONS
888-267-1063

SPIRE MO WEST
816-969-2298

SPRINT NEXTEL
800-521-0579

LEVEL 3 (CENTURY LINK)
877-366-8344

UNITE PRIVATE NETWORKS
816-368-9039

TIME WARNER CABLE
1-800-778-9140

ATT TRANSMISSION
800-252-1133

CONSOLIDATED COMMUNICATIONS ENTERPRISE SERVICES
913-322-9953

MCI
800-289-3427

ATT DISTRIBUTION
ERIC GROVERSON
816-863-6284

ERVIN CABLE CONSTRUCTION LLC
RON WILEY
618-779-9135

EVERGY
VERDIS GREEN
816-830-5372

GOOGLE FIBER
913-486-5018

CITY OF KANSAS CITY WATER
816-513-0296

CITY OF KANSAS CITY SEWER
NICK SHAFER
816-564-7128

CITY OF KANSAS CITY TRAFFIC
CHRIS LOCKEY
816-787-9542

CITY OF KANSAS CITY STREET
KATY STEINBACHER
785-393-3146

SHEET INDEX

SHEET #	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES AND DETAILS
3	PROJECT CONTROL AND ALIGNMENT TABLES
4-8	89TH STREET PLAN & PROFILE
9-13	5th STREET CROSS SECTIONS

DESIGN DATA

CONSTRUCTION BEGINNING - ENDING STATION (89TH STREET) 0+02.70 - 26+16.38
TOTAL PROJECT LENGTH 2613.68 FT

CALL OR CLICK 3 DAYS BEFORE YOU DIG!
MISSOURI ONE CALL SYSTEM
1-800-DIG-RITE or 811
www.mo1call.com

#	DATE	DESCRIPTION	BY

Bartlett & West
1719 SOUTHRIDGE DR., SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE: 573.634.2448 FAX: 573.634.3133
MISSOURI CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

COVER SHEET

PO: DEP89-8900008994
89TH STREET SIDEWALK IMPROVEMENTS PROJECT
KANSAS CITY, MISSOURI

NOT FOR CONSTRUCTION

SEALED DATE:	====
DESIGNED BY:	PAB
DRAWN BY:	PAB
APPROVED BY:	SK
DESIGN PROJ:	19855.100
DATE:	MAY 2020
DRAWING NO:	1
SHEET NO:	1 of 13

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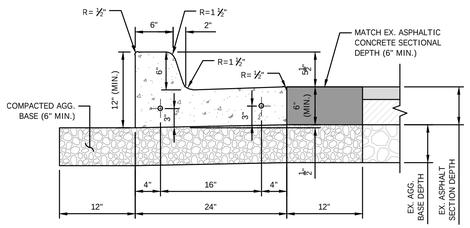
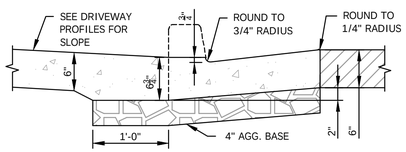


STRAIGHT BACK CURB & GUTTER

(TYPE CG-1)

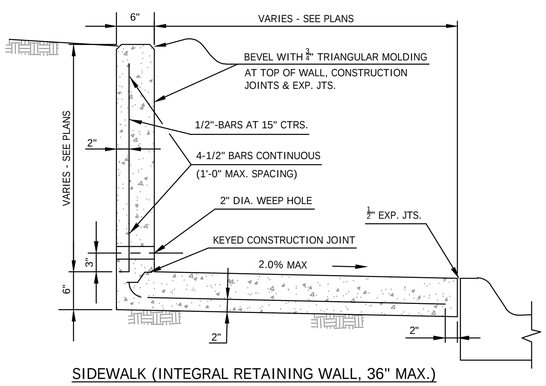
CURB AND GUTTER NOTES

1. ½" EXPANSION JOINTS WITH 2' DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWELS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 1" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. FIX DOWEL BARS WITH BAR SUPPORTS
4. CONCRETE SHALL CONFORM TO SECTION 2200 UNLESS OTHERWISE SPECIFIED IN PLANS PROJECT MANUAL. FOR CBD OF K.C.M.O. SEE SECTION 2300 OF STANDARD SPECIFICATIONS AND DESIGN CRITERA.
5. USE ⅝" DIAMETER BY SMOOTH DOWELS AT LOCATIONS SHOWN ON EACH TYPICAL SECTION.
6. DEPTH OF GUTTER SHALL BE A MINIMUM OF 8" THRU THE HANDICAP ACCESS RAMP.
7. ONLY WHITE CURING MEMBRANES SHALL BE PERMITTED AND SHALL CONFORM TO STANDARD SPECIFICATION SECTION 2200.



DRIVEWAY DETAIL

NOT TO SCALE



SIDEWALK (INTEGRAL RETAINING WALL, 36" MAX.)

NOTES:

1. THIS TYPE OF WALL MAY BE USED TO A MAXIMUM HEIGHT OF 3'-0".
2. WEEP HOLES AT A MAXIMUM OF 15' CENTER TO CENTER WITH COARSE AGGREGATE PLACED AT EACH WEEP.
3. HOLE 18" IN ALL DIRECTIONS ABOVE FLOW LINE.
4. CONCRETE SHALL BE CLASS "A" THROUGHOUT WITH GRADE 40 REINFORCING.
5. PLACE 1/2" HARDWARE SCREEN AT WEEP HOLES TO RETAIN AGGREGATE.

QUANTITIES

Item No.	Description	Quantity	Unit
	Base Bid		
1	Mobilization	1	LS
2	Surveying and Construction Staking	1	LS
3	Removal of Improvements	1	LS
4	Unclassified Excavation	1	LS
5	Curbing (CG-1)	739	LF
6	Sidewalk (Integral Retaining Wall, 36" Max.)	341	LF
7	Sidewalk (Integral Curb, 12" Max.)	109	LF
8	Sidewalk	7973	SF
9	Sidewalk Ramp	545	SF
10	Driveways	2379	SF
11	Structures (Curb Inlet Type 1 "CI-1")	1	EA
12	Structures (Curb Inlet Type 2 "CI-2")	1	EA
12	Structures (Standard Manhole 4' dia)	1	EA
13	Pipe (15" RCP)	228	LF
14	Pipe (18" RCP)	154	LF
15	Pipe End Sections (15" RCP)	1	EA
16	Fence (48" Wooden)	78	LF
17	Fence (48" Chainlink)	244	LF
18	Incidental Construction (Adjustment of Valves)	3	EA
19	Incidental Construction (Adjustment of Meters)	7	EA
20	Incidental Construction (Adjustment of Hydrants)	1	EA
21	Tree Removal/Replacement	6	EA
22	Sodding	2400	SY
23	Sediment Fence	1	LS
24	Traffic Control Devices	1	LS

REMOVALS

Item No.	Description	Quantity	Unit
1	Tree Removal	6	EA.
2	Vegetation	0.05	AC.
3	Railroad Ties (Landscape Feature)	22	L.F.
4	Fence (Chanlink)	243	L.F.
5	Fence (Wood)	87	L.F.
6	Driveways	2379	S.F.
7	Asphaltic Concrete	83	S.Y.
8	Culverts	2	EA.

GENERAL NOTES

1. VERIFYING THE LOCATIONS OF THE UNDERGROUND UTILITIES, SHOWN OR NOT SHOWN, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY DAMAGE TO EXISTING OR PROPOSED FACILITIES, STRUCTURES OR UTILITIES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. NOTIFY MISSOURI ONE CALL FOR LOCATION OF THE UTILITIES AT LEAST 5 DAYS PRIOR TO CONSTRUCTION. UTILITY COORDINATION SHALL NOT BE A REASON FOR DELAY OR ADDITIONAL COST FOR THE PROJECT.
2. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL DAMAGE TO PROPERTY OUTSIDE LIMITS OF CONSTRUCTION AT THE CONTRACTOR'S EXPENSE.
3. REPORT ANY DISCREPANCIES FOUND WITH REGARD TO EXISTING CONDITIONS OR PROPOSED DESIGN IMMEDIATELY TO THE ENGINEER.
4. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHERE DISCREPANCIES EXIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REVISIONS TO THE WORK WHEN NO NOTICE WAS GIVEN TO THE ENGINEER.
5. THE GENERAL CONTRACTOR SHALL COORDINATE OTHER SITE RELATED OPERATIONS PERFORMED BY OTHER CONTRACTORS OR UTILITY COMPANIES TO ACCOMPLISH THE WORK.
6. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES TO REMAIN INCLUDING ON-SITE PRIVATE AND PUBLIC PROPERTY. CONTRACTOR TO COORDINATE WITH CITY ON POLES AND SIGNS.
7. ALL WORK SHALL BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.
8. LEAVE AREAS OF DEMOLITION IN A NEAT AND SAFE CONDITION AT THE END OF EACH WORK DAY. CONTRACTOR SHALL BARRICADE AREAS OF DEMOLITION AS NECESSARY TO PROTECT THE GENERAL PUBLIC. MAINTAIN SAFE PUBLIC ACCESS TO RESIDENCES.
9. LEGALLY DISPOSE OF ALL DEMOLITION ITEMS OFF SITE UNLESS NOTED TO RETURN ITEMS TO THE CITY.
10. ALL REMOVALS ADJACENT TO EXISTING PAVEMENT TO REMAIN SHALL BE ISOLATED BY SAWCUTS. SAWCUTS SHALL BE A MINIMUM OF THE PAVEMENT THICKNESS.
11. ALL UTILITIES NOT MARKED FOR REMOVAL SHALL REMAIN IN PLACE.
12. ALL EXISTING SIGNS AND POSTS SHALL BE RE-INSTALLED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, UNLESS OTHERWISE NOTED.
13. THE CONTRACTOR SHALL ACHIEVE A STABILIZED SUBGRADE PRIOR TO CONSTRUCTION OF THE ROADWAY. PAYMENT FOR THIS WORK SHALL BE CONSIDERED COMPLETELY COVERED BY THE PAY ITEMS "UNCLASSIFIED EXCAVATION" AND "EMBANKMENT". THE CONDITION OF THE EXISTING MATERIAL AND METHOD OF ACHIEVING A STABLE BASE WILL NOT BE GROUNDS FOR ADDITIONAL PAYMENT.
14. ALL CONSTRUCTION MUST BE ADA COMPLIANT. NON-ADA COMPLIANT CONSTRUCTION MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
15. ALL STATION AND OFFSETS FOR CURB INLETS ARE GIVEN AT THE CENTER POINT OF STRUCTURE; END SECTIONS ARE GIVEN AT THE CONNECTION POINT OF THE END SECTION TO THE PIPE; AREA INLETS, JUNCTION BOXES AND MANHOLES ARE GIVEN TO THE CENTER OF THE STRUCTURE. INLET TOPS SHALL BE SLOPED TO MATCH ADJACENT ROADWAY LONGITUDINAL SLOPE AND GRADE ADJACENT TO INLET FOR TRANSVERSE SLOPE.
16. A QUANTITY HAS BEEN INCLUDED FOR CONCRETE TRASH PADS. THESE PADS SHALL BE PLACED WITH THE APPROVAL OF THE CITY AND THE SOLID WASTES DISPOSAL COMPANY AT THE COMPLETION OF CONSTRUCTION.
17. ANY ROCK ENCOUNTERED AS PART OF THIS PROJECT SHALL BE EXCAVATED AT NO ADDITIONAL PAYMENT. ALL EXCAVATION ACTIVITIES INCLUDING ROCK SHALL BE CONSIDERED COMPLETELY COVERED BY THE BID ITEMS IN THE CONTRACT.
18. ALL AREAS OF REMOVAL NOT NOTED FOR RECONSTRUCTION SHALL BE RESTORED WITH SEED OR SOD

STORM WATER MANAGEMENT

1. THIS PLAN OUTLINES STORM WATER MANAGEMENT AND SEDIMENT AND EROSION CONTROL PRACTICES TO BE FOLLOWED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE TO PREVENT SOIL OR SEDIMENT LOSS FROM THE CONSTRUCTION SITE AND CANNOT LEAVE THE SITE UNTIL ALL PERMANENT EROSION CONTROL, SEDIMENT CONTROL AND STORM WATER MANAGEMENT PRACTICES ARE IN PLACE, INSPECTED AND HAVE BEEN FOUND TO BE SATISFACTORY, AND UNTIL ALL TEMPORARY PRACTICES HAVE BEEN PROPERLY REMOVED.
2. THIS PROJECT HAS BEEN DESIGNED TO PROVIDE POSITIVE POST-CONSTRUCTION CONTROL OF EXCESS STORM WATER GENERATED ON THE SITE THROUGH THE USE OF CURBS, GUTTERS, PIPING, STORM WATER BASINS (WHEN DESIGNED) AND STORM WATER OUTLETS. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL AND MAINTAIN STORM WATER MANAGEMENT STRUCTURES IN A MANNER TO MAXIMIZE STORM WATER CONTROL.
3. THIS PROJECT IS DESIGNED TO MINIMIZE OFF-SITE EFFECT OF SOIL EROSION AND RESULTING SEDIMENT LOSS THROUGH THE USE OF PROPER CONSTRUCTION TECHNIQUES, INCLUDING INSTALLING BOTH TEMPORARY AND PERMANENT MANAGEMENT PRACTICES. ALL SOIL DISTURBING ACTIVITIES PERFORMED BY THE CONTRACTOR SHALL BE ACCOMPLISHED IN SUCH A MANNER AS TO PREVENT THE LOSS OF SEDIMENT IN STORM WATER AND TRACKING OF SOIL FROM VEHICLE TRAFFIC FROM THE CONSTRUCTION SITE.

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED AND REPAIRED. COPIES OF LOG SHALL BE FURNISHED TO THE ENGINEER.
2. THE CONTRACTOR SHALL MONITOR EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE PROJECT. THIS PLAN MAY BE UPDATED AS CONSTRUCTION PROGRESSES WITH APPROVAL OF ENGINEER.
3. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INSTALLED AS PART OF THIS PLAN SHALL NOT BE REMOVED FOLLOWING CONSTRUCTION UNTIL SLOPES ARE STABILIZED TO A NON-EROSIVE STATE WITH ESTABLISHED GRASS OR AS DIRECTED BY THE ENGINEER.
4. IMMEDIATELY AFTER MOBILIZATION AND PRIOR TO STARTING ANY SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL ANY PERIMETER EROSION AND SEDIMENT CONTROL MEASURES, GRAVEL CONSTRUCTION ENTRANCE(S) AND TEMPORARY SEDIMENT BASIN(S). IT IS RECOGNIZED THAT SOME SITE CLEARING AND PREPARATION MAY BY REQUIRED TO PROPERLY INSTALL SUCH MEASURES.
5. THE RECOMMENDED SEQUENCE OF CONSTRUCTION ACTIVITIES AND OF THE INSTALLATION AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES IS AS FOLLOWS: ANY PERIMETER CONTROL MEASURES (SILT FENCE, TEMPORARY SEDIMENT BASIN) INCLUDING AREAS DRAINING TO A DRAINAGE WAY SUCH AS A STREAM, GRAVEL CONSTRUCTION ENTRANCE(S), CONSTRUCTION OF SANITARY SEWERS, STORM SEWERS, STRAW OR HAY BALE INLET PROTECTION AND BALE DITCH CHECKS, STREETS, FINAL GRADING, SEEDING, FERTILIZING AND MULCHING ON ALL SLOPES AND DISTURBED AREAS, INDIVIDUAL SITE CONTROL MEASURES, REMOVAL OF TEMPORARY PRACTICES, REMOVAL OF PERIMETER CONTROLS AND SITE CLEANUP.
6. PERIMETER SILT FENCE, BALE DITCH CHECKS, CONSTRUCTION ENTRANCE(S) AND TEMPORARY SEDIMENT BASIN(S) SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN HEREON. INSTALL SILT FENCE OR BALES WHERE REPRESENTED ON PLAN AS DITCH CHECKS AND SLOPE CONTROL, AROUND INLETS, ALONG ROADWAYS, AREAS DRAINING TO DRAINAGE WAYS SUCH AS A STREAM AND OTHER LOCATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. MEASURES WILL BE KEPT IN PLACE UNTIL GRASS IS ESTABLISHED.
7. BALE OR REINFORCED SILT FENCE INLET PROTECTION AT EACH INLET AND BALE DITCH CHECKS SHALL BE INSTALLED AFTER COMPLETION OF INLETS AND DITCHES. PROTECTION SHALL REMAIN IN PLACE AT INLETS UNTIL PAVEMENT IS CONSTRUCTED AND IN DITCHES UNTIL PERMANENT GRASS STAND IS ESTABLISHED. ROCK BAGS SHALL BE INSTALLED AFTER CURB AND GUTTER IS INSTALLED. IN ADDITION, HAY BALES OR SILT FENCE WILL BE PLACED ALONG STREETS AS NEEDED TO REDUCE SEDIMENT IN THE STREET.
8. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED BY THE GENERAL CONTRACTOR NOT LESS THAN WEEKLY OR WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT LIMITED TO SEDIMENT REMOVAL, SILT FENCE AND HAY BALE BARRIER REPAIR AND/OR REPLACEMENT.
9. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED BY THE GENERAL CONTRACTOR IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS AND PAVED STREETS. THIS MAY INCLUDE PERIODIC TOP DRESSING WITH ADDITIONAL CRUSHED STONE AS CONDITIONS WARRANT. REPAIR OF ENTRANCES, CLEANING ON A DAILY BASIS OF RIGHT-OF-WAYS AND PAVED STREETS THAT HAVE BEEN SOILED BY CONSTRUCTION ACTIVITIES SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY.
10. THE CONTRACTOR SHALL NOTIFY EACH SUB-CONTRACTOR OR ENTITY (INCLUDING UTILITY CREWS AND CITY EMPLOYEES OR THEIR AGENTS) THAT WILL BE PERFORMING WORK AT THE SITE OF THE EROSION CONTROL PLAN AND WHAT ACTIONS OR PRECAUTIONS SHALL BE TAKEN TO MINIMIZE THE POTENTIAL FOR SOIL EROSION.
11. DURING ALL SOIL DISTURBING ACTIVITIES, THE GENERAL CONTRACTOR WILL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL.
12. NO GROUND SHALL BE LEFT OPEN FOR MORE THAN 7 DAYS OF NON-ACTIVITY WITHOUT BEING MULCHED AND/OR SEEDED.
13. SOIL STOCKPILED FOR MORE THAN 7 DAYS SHALL HAVE SILT FENCE OR BALES PLACED ON THE DOWNHILL SLOPES TO TRAP SEDIMENT.
14. WHENEVER SOIL, ROCK, VEGETATION OR OTHER MATERIALS ARE EXPORTED FOR PLACEMENT IN AREAS OFF OF THE CONSTRUCTION SITE COVERED IN THIS PLAN, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT EPA STORM WATER PERMITTING REQUIREMENTS ARE MET. PRIOR TO THE REMOVAL OF ANY MATERIALS FROM THE SITE THE GENERAL CONTRACTOR WILL FURNISH THE ENGINEER WITH WRITTEN AGREEMENT, SIGNED BY EACH LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THEY ACCEPT THE MATERIAL AND THAT RECEIVING SITE IS PROPERLY PERMITTED, WHEN REQUIRED.

#	DATE	DESCRIPTION	BY

Bartlett & West
1719 SOUTHRIDGE DR., SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE: (573) 634-2448 FAX: (573) 634-3033
MISSOURI CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

GENERAL NOTES AND TYPICAL DETAILS

PO: DEP89-8900008994

89TH STREET SIDEWALK IMPROVEMENTS PROJECT

KANSAS CITY, MISSOURI

NOT FOR CONSTRUCTION

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DESIGNED BY:	PAB
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SHEET NO:	2 of 13

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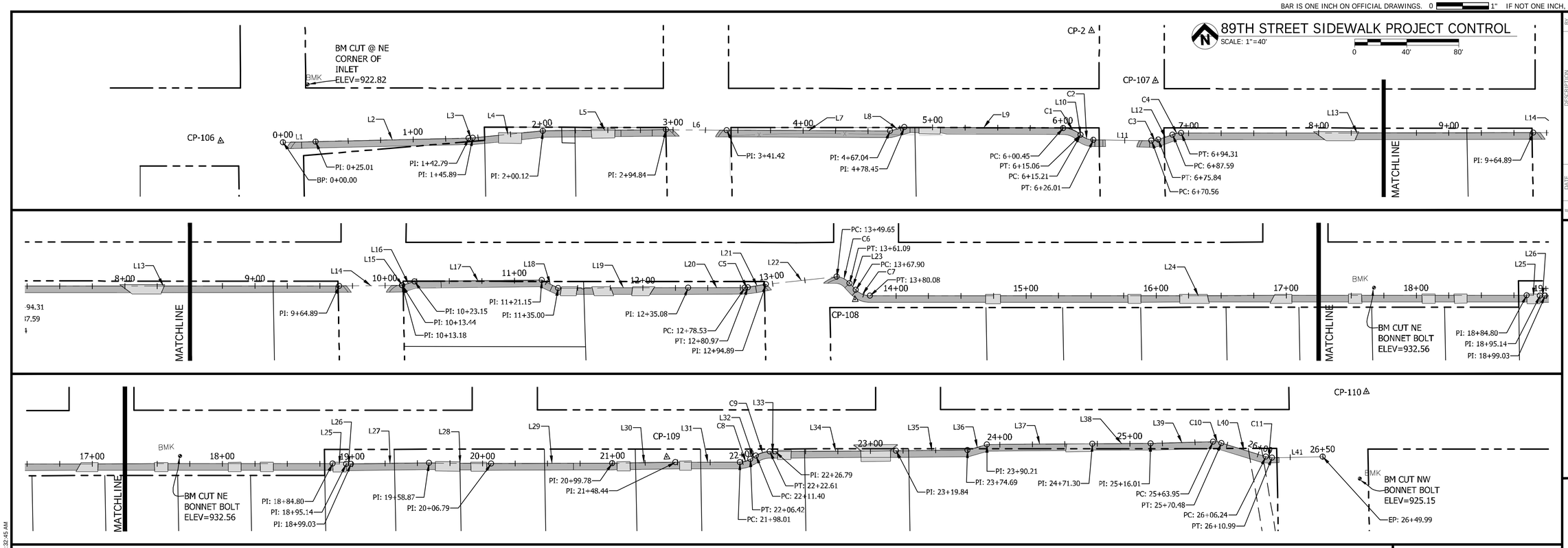

SIDEWALK

NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION	START STATION	START SEGMENT	END STATION	END SEGMENT	RADIUS POINT
L1	25.01'		91°49'37.20"	0+00.00	N 1019526.1783, E2762904.6028	0+25.01	N 1019525.3810, E 2762929.6000	
L2	117.78'		91°42'46.57"	0+25.01	N 1019525.3810, E2762929.6000	1+42.79	N 1019521.8604, E 2763047.3250	
L3	3.10'		92°28'41.68"	1+42.79	N 1019521.8604, E2763047.3250	1+45.89	N 1019521.7264, E 2763050.4210	
L4	54.23'		87°11'17.32"	1+45.89	N 1019521.7264, E2763050.4210	2+00.12	N 1019524.3867, E 2763104.5866	
L5	94.72'		92°28'41.68"	2+00.12	N 1019524.3867, E2763104.5866	2+94.84	N 1019520.2909, E 2763199.2209	
L6	46.58'		93°36'39.88"	2+94.84	N 1019520.2909, E2763199.2209	3+41.42	N 1019517.3570, E 2763245.7107	
L7	125.62'		93°18'32.74"	3+41.42	N 1019517.3570, E2763245.7107	4+67.04	N 1019510.1058, E 2763371.1235	
L8	11.40'		78°03'14.32"	4+67.04	N 1019510.1058, E2763371.1235	4+78.45	N 1019512.4658, E 2763382.2784	
L9	122.00'		93°18'32.74"	4+78.45	N 1019512.4658, E2763382.2784	6+00.45	N 1019505.4237, E 2763504.0749	
C1	14.61'	20.01'	114°14'15.81"	6+00.45	N 1019505.4237, E 2763504.0749	6+15.06	N 1019499.5570, E 2763517.1059	N 1019485.4498, E 2763502.9186
L10	0.15'		135°09'43.96"	6+15.06	N 1019499.5570, E2763517.1059	6+15.21	N 1019499.4526, E 2763517.2097	
C2	10.81'	15.00'	114°31'23.39"	6+15.21	N 1019499.4526, E 2763517.2097	6+26.01	N 1019495.0636, E 2763526.8302	N 1019510.0292, E 2763527.8463
L11	44.55'		93°53'02.83"	6+26.01	N 1019495.0636, E2763526.8302	6+70.56	N 1019492.0460, E 2763571.2752	
C3	5.27'	15.00'	83°48'40.60"	6+70.56	N 1019492.0460, E 2763571.2752	6+75.84	N 1019492.6117, E 2763576.4916	N 1019507.0116, E 2763572.2913
L12	11.76'		73°44'18.37"	6+75.84	N 1019492.6117, E2763576.4916	6+87.59	N 1019495.9043, E 2763587.7797	
C4	6.71'	20.00'	83°21'19.97"	6+87.59	N 1019495.9043, E 2763587.7797	6+94.31	N 1019496.6776, E 2763594.4174	N 1019476.7045, E 2763593.3802
L13	270.58'		92°58'21.58"	6+94.31	N 1019496.6776, E2763594.4174	9+64.89	N 1019482.6452, E 2763864.6376	
L14	48.28'		92°40'10.58"	9+64.89	N 1019482.6452, E2763864.6376	10+13.18	N 1019480.3963, E 2763912.8701	
L15	0.26'		92°07'56.87"	10+13.18	N 1019480.3963, E2763912.8701	10+13.44	N 1019480.3865, E 2763913.1329	
L16	9.71'		74°40'01.51"	10+13.44	N 1019480.3865, E2763913.1329	10+23.15	N 1019482.9528, E 2763922.4926	
L17	98.00'		92°29'25.81"	10+23.15	N 1019482.9528, E2763922.4926	11+21.15	N 1019478.6943, E 2764020.4000	
L18	13.85'		118°09'39.15"	11+21.15	N 1019478.6943, E2764020.4000	11+35.00	N 1019472.1575, E 2764032.6111	
L19	100.08'		93°00'22.10"	11+35.00	N 1019472.1575, E2764032.6111	12+35.08	N 1019466.9088, E 2764132.5574	
L20	43.45'		92°45'27.77"	12+35.08	N 1019466.9088, E2764132.5574	12+78.53	N 1019464.8185, E 2764175.9528	
C5	2.44'	15.00'	88°05'20.80"	12+78.53	N 1019464.8185, E 2764175.9528	12+80.97	N 1019464.9000, E 2764178.3932	N 1019479.8012, E 2764176.6745
L21	13.92'		83°25'13.83"	12+80.97	N 1019464.9000, E2764178.3932	12+94.89	N 1019466.4944, E 2764192.2173	

SIDEWALK

NUMBER	LENGTH	RADIUS	LINE / CHORD DIRECTION	START STATION	START SEGMENT	END STATION	END SEGMENT	RADIUS POINT
L22	54.76'		86°59'19.83"	12+94.89	N 1019466.4944, E2764192.2173	13+49.65	N 1019469.3712, E 2764246.9057	
C6	11.44'	14.72'	119°46'23.39"	13+49.65	N 1019469.3712, E 2764246.9057	13+61.09	N 1019463.8332, E 2764256.5860	N 1019454.7774, E 2764244.9811
L23	6.81'		139°27'18.63"	13+61.09	N 1019463.8332, E2764256.5860	13+67.90	N 1019458.6574, E 2764261.0136	
C7	12.18'	14.90'	116°18'56.19"	13+67.90	N 1019458.6574, E 2764261.0136	13+80.08	N 1019453.4084, E 2764271.6269	N 1019468.2929, E 2764272.3836
L24	504.73'		92°58'51.32"	13+80.08	N 1019453.4084, E2764271.6269	18+84.80	N 1019427.1610, E 2764775.6692	
L25	10.34'		94°52'34.17"	18+84.80	N 1019427.1610, E2764775.6692	18+95.14	N 1019426.2819, E 2764785.9736	
L26	3.88'		93°03'01.58"	18+95.14	N 1019426.2819, E2764785.9736	18+99.03	N 1019426.0752, E 2764789.8526	
L27	59.84'		92°12'10.78"	18+99.03	N 1019426.0752, E2764789.8526	19+58.87	N 1019423.7748, E 2764849.6524	
L28	47.91'		93°41'02.18"	19+58.87	N 1019423.7748, E2764849.6524	20+06.79	N 1019420.6962, E 2764897.4682	
L29	93.00'		92°50'01.92"	20+06.79	N 1019420.6962, E2764897.4682	20+99.78	N 1019416.0983, E 2764990.3532	
L30	48.66'		92°13'55.44"	20+99.78	N 1019416.0983, E2764990.3532	21+48.44	N 1019414.2031, E 2765038.9761	
L31	49.57'		92°51'50.04"	21+48.44	N 1019414.2031, E2765038.9761	21+98.01	N 1019411.7264, E 2765088.4841	
C8	8.41'	15.00'	76°48'21.03"	21+98.01	N 1019411.7264, E 2765088.4841	22+06.42	N 1019413.6205, E 2765096.5634	N 1019426.7077, E 2765089.2335
L32	4.97'		60°44'52.03"	22+06.42	N 1019413.6205, E2765096.5634	22+11.40	N 1019416.0508, E 2765100.9025	
C9	11.21'	20.00'	76°48'21.03"	22+11.40	N 1019416.0508, E 2765100.9025	22+22.61	N 1019418.5763, E 2765111.6749	N 1019398.6013, E 2765110.6756
L33	4.18'		92°51'50.04"	22+22.61	N 1019418.5763, E2765111.6749	22+26.79	N 1019418.3675, E 2765115.8491	
L34	93.06'		92°37'36.07"	22+26.79	N 1019418.3675, E2765115.8491	23+19.84	N 1019414.1029, E 2765208.8071	
L35	54.85'		92°29'40.76"	23+19.84	N 1019414.1029, E2765208.8071	23+74.69	N 1019411.7157, E 2765263.6003	
L36	15.52'		77°33'47.66"	23+74.69	N 1019411.7157, E2765263.6003	23+90.21	N 1019415.0590, E 2765278.7602	
L37	81.09'		92°29'40.76"	23+90.21	N 1019415.0590, E2765278.7602	24+71.30	N 1019411.5295, E 2765359.7732	
L38	44.71'		92°51'04.58"	24+71.30	N 1019411.5295, E2765359.7732	25+16.01	N 1019409.3056, E 2765404.4245	
L39	47.94'		91°29'36.28"	25+16.01	N 1019409.3056, E2765404.4245	25+63.95	N 1019408.0561, E 2765452.3530	
C10	6.53'	20.00'	100°50'41.14"	25+63.95	N 1019408.0561, E 2765452.3530	25+70.48	N 1019406.8332, E 2765458.7364	N 1019388.0629, E 2765451.8317
L40	35.76'		110°11'45.99"	25+70.48	N 1019406.8332, E2765458.7364	26+06.24	N 1019394.4878, E 2765492.2972	
C11	4.75'	15.00'	101°07'32.39"	26+06.24	N 1019394.4878, E 2765492.2972	26+10.99	N 1019393.5752, E 2765496.9377	N 1019408.5656, E 2765497.4757
L41	39.00'		92°03'18.79"	26+10.99	N 1019393.5752, E2765496.9377	26+49.99	N 1019392.1765, E 2765535.9147	

PROJECT CONTROL

HORIZONTAL AND VERTICAL CONTROL DATA	
Horizontal Datum = Missouri State Plane, West Zone (NAD83) Vertical Datum = NAVD88	
CP-2 (1/2" Iron Bar) N=1019578.8081 E=2763529.7511 Elev=951.55'	CP-106 (1/2" Iron Bar) N=1019529.6920 E=2762856.8249 Elev=921.52'
CP-107 (1/2" Iron Bar) N=1019537.8673 E=2763576.7585 Elev=952.99'	CP-108 (1/2" Iron Bar) N=1019451.1339 E=2764260.1714 Elev=934.87'
CP-109 (1/2" Iron Bar) N=1019418.6731 E=2765032.5208 Elev=949.86'	CP-110 (1/2" Iron Bar) N=1019440.0996 E=2765572.1575 Elev=923.94'

SURVEY MONUMENTATION

BMK BENCHMARK

CONTROL POINT

#	DATE	DESCRIPTION	BY

Bartlett & West
1719 SOUTHRIDGE DR., SUITE 100 - JEFFERSON CITY, MO 65109-4000
TELEPHONE: (573) 634-2022 FAX: (573) 634-3133
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PROJECT CONTROL AND ALIGNMENT TABLES

PO: DEP89-8900008994

89TH STREET SIDEWALK IMPROVEMENTS PROJECT
KANSAS CITY, MISSOURI

NOT FOR CONSTRUCTION

SEALED DATE:	====
DESIGNED BY:	PAB
DRAWN BY:	PAB
APPROVED BY:	SK
DESIGN PROJ:	19855.100
DATE:	MAY 2020
DRAWING NO:	3
SHEET NO:	3 of 13

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Last edit on: May 12, 2020 by: PAB0986 Drawing Name: c:\pwdata\topeka01\pab0986\dms71952\19855.100C_Project_Control.dwg Layout Name: Project Control Plotted By: PAB0986 Plotted on: 5/19/2020 11:32:45 AM

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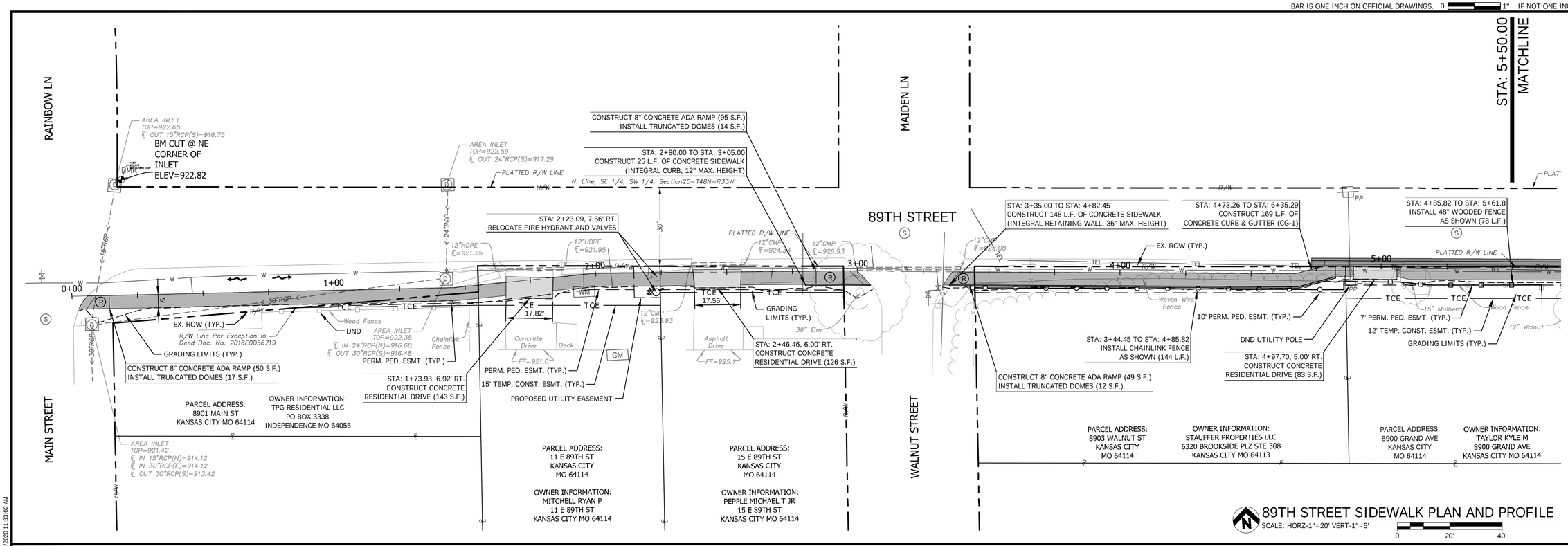
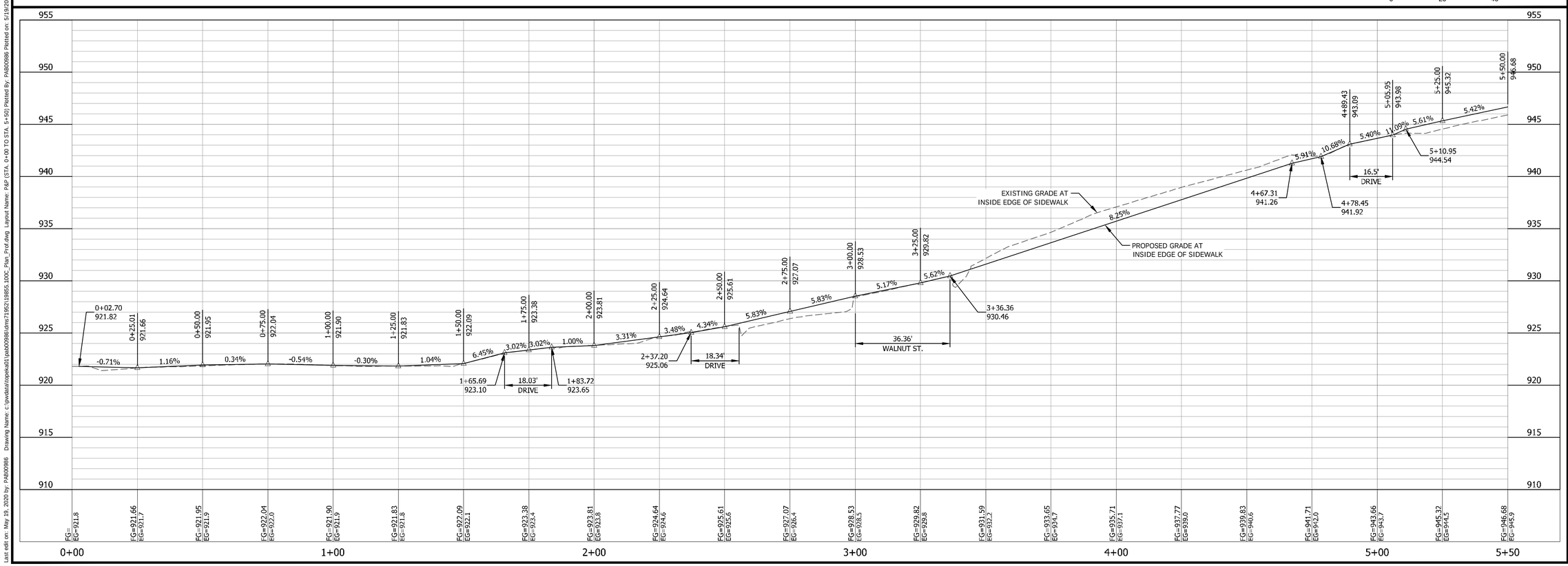


89TH STREET SIDEWALK PLAN AND PROFILE

SCALE: HORZ-1"=20' VERT-1"=5'

0 20' 40'



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Bartlett & West
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SIDEWALK PLAN AND PROFILE (STA: 0+00.00 TO STA: 5+50.00)

PO: DEP89-8900008994

89TH STREET SIDEWALK IMPROVEMENTS PROJECT
KANSAS CITY, MISSOURI

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APPROVED BY:	SK
DESIGN PROJ:	19855.100
DATE:	MAY 2020
DRAWING NO:	4
SHEET NO:	4 of 13

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Last edit on: May 19, 2020 by: PABD0986 Drawing Name: c:\pwdata\topeka01\pabd0986\dms71952\19855.100C_Plan_Prof.dwg Layout Name: P&P (STA. 0+00 TO STA. 5+50) Plotted By: PABD0986 Plotted on: 5/19/2020 11:33:02 AM

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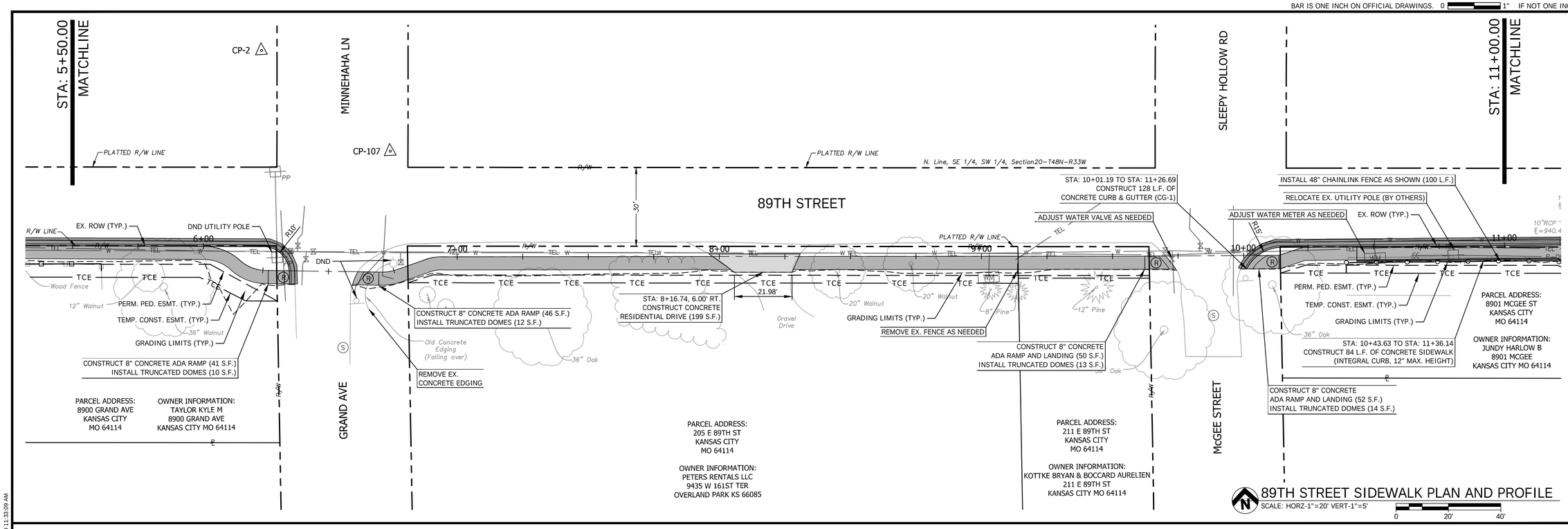

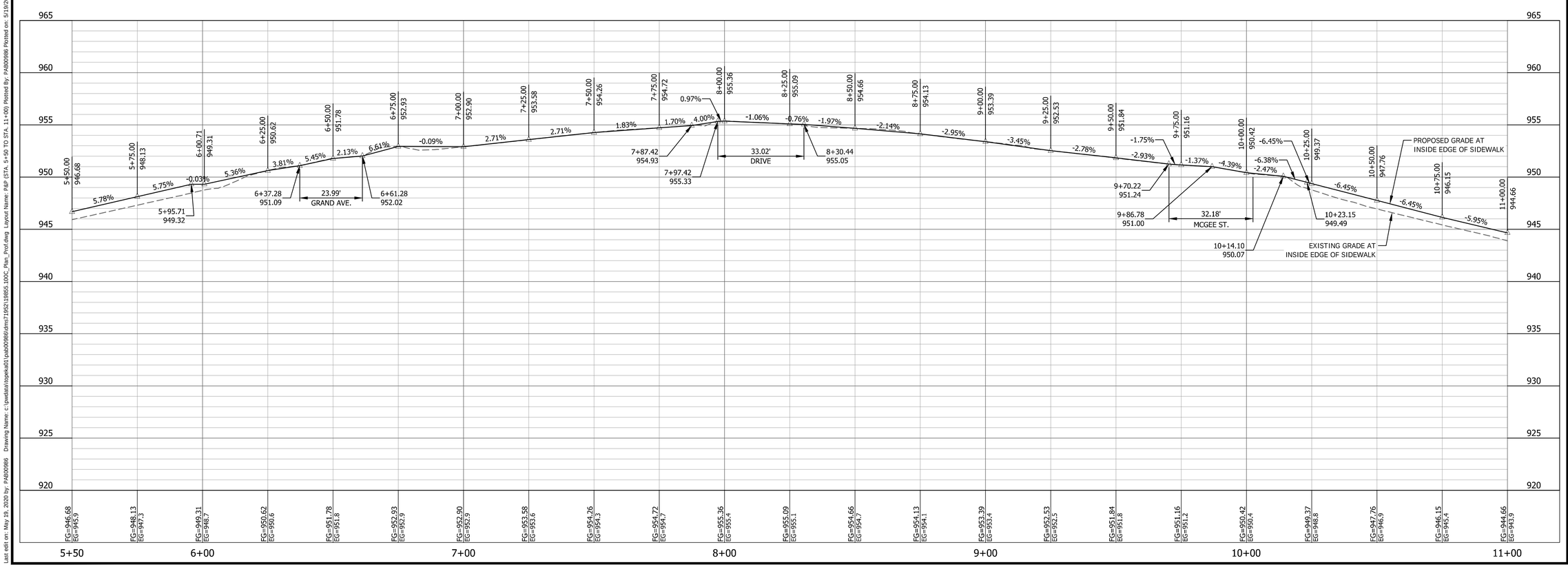

DATE	DESCRIPTION	BY

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89TH STREET SIDEWALK IMPROVEMENTS PROJECT
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DATE:	MAY 2020
DRAWING NO:	5
SHEET NO:	5 of 13

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Last edit on: May 19, 2020 by: P48009986 Drawing Name: c:\pwdata\topeka01\pab0986\dms71\9521\9855.100C_Plan_Prof.dwg Layout Name: P&P (STA. 5+50 TO STA. 11+00) Plotted By: P48009986 Plotted on: 5/19/2020 11:33:09 AM

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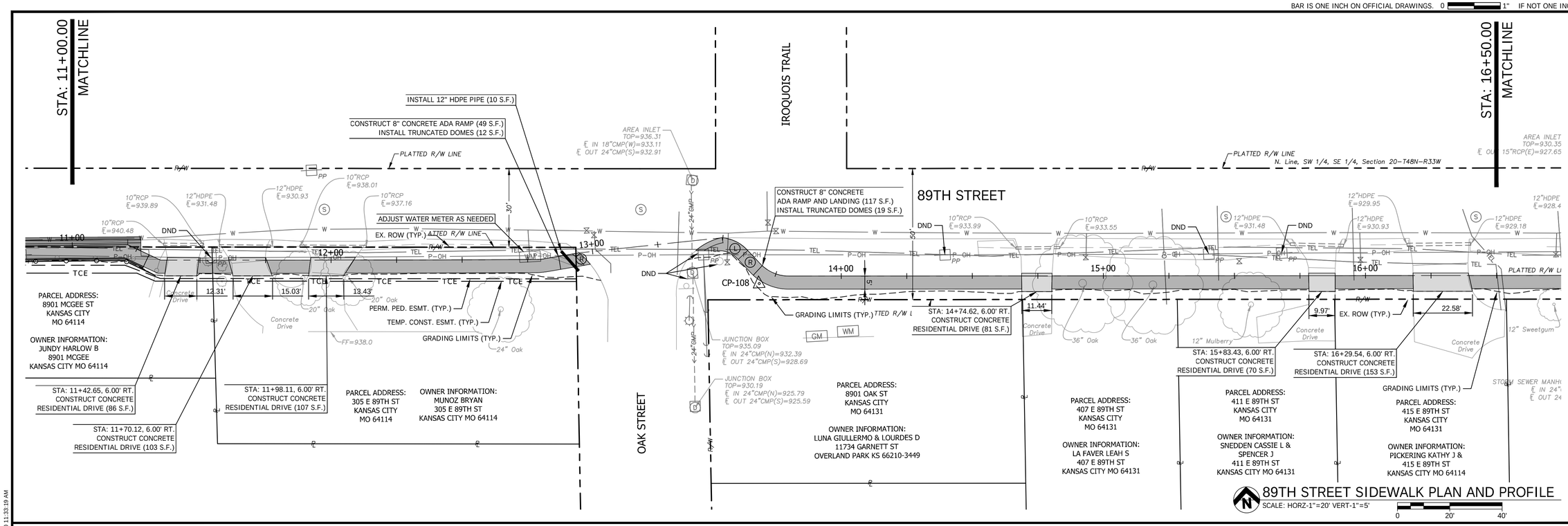

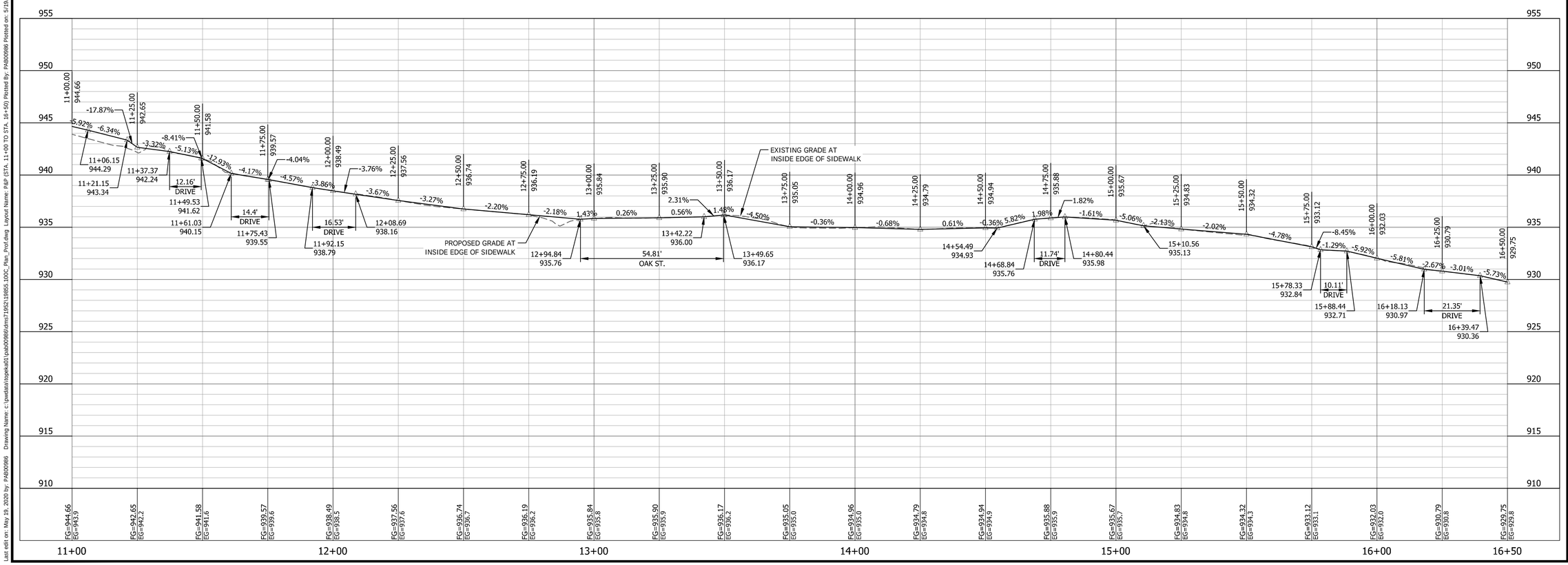

SIDEWALK PLAN AND PROFILE (STA: 11+00.00 TO STA: 16+50.00)

PO: DEP89-8900008994

89TH STREET SIDEWALK IMPROVEMENTS PROJECT
KANSAS CITY, MISSOURI

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DATE:	MAY 2020
DRAWING NO:	6
SHEET NO:	6 of 13

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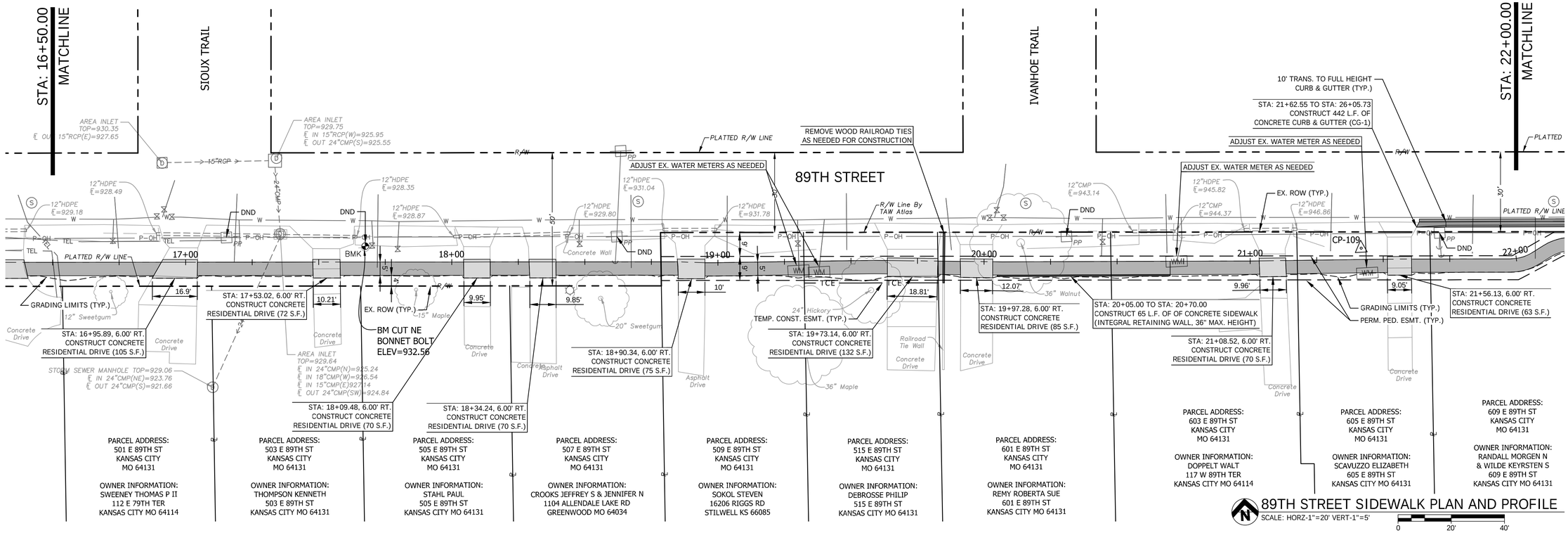

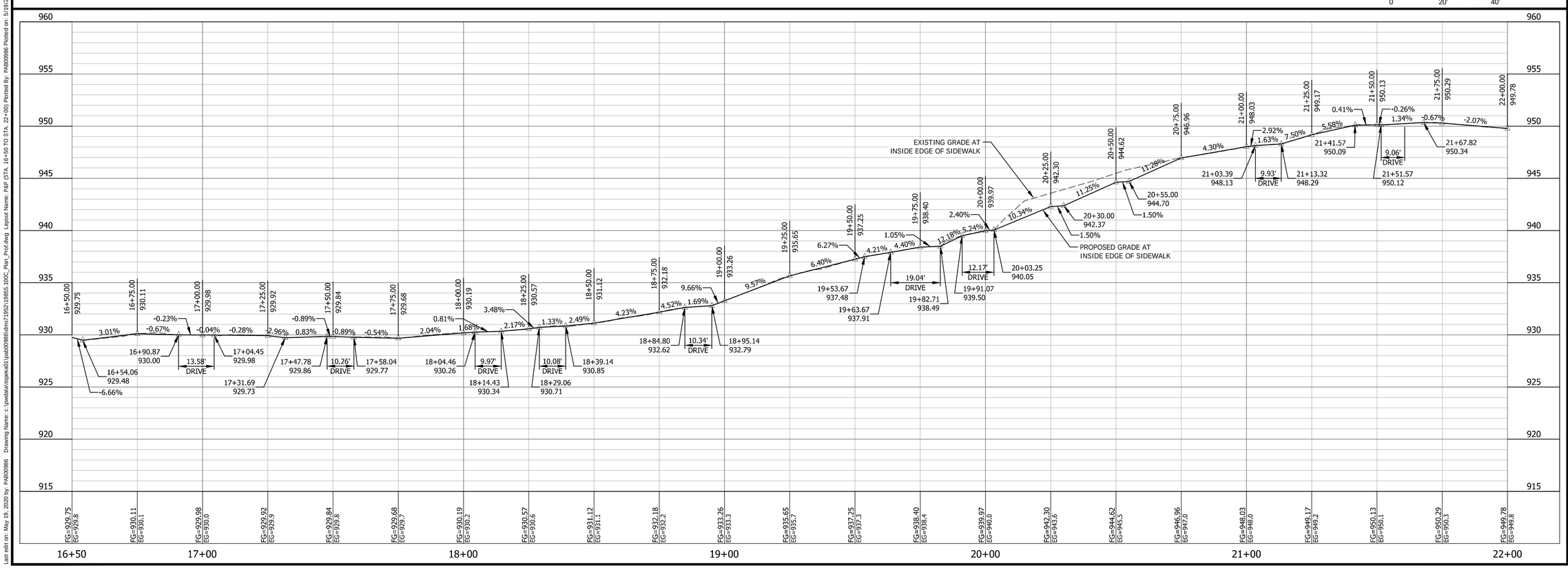

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SIDEWALK PLAN AND PROFILE (STA: 16+50.00 TO STA: 22+00.00)

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APPROVED BY:	SK
DESIGN PROJ:	19855.100
DATE:	MAY 2020
DRAWING NO:	7
SHEET NO:	7 of 13

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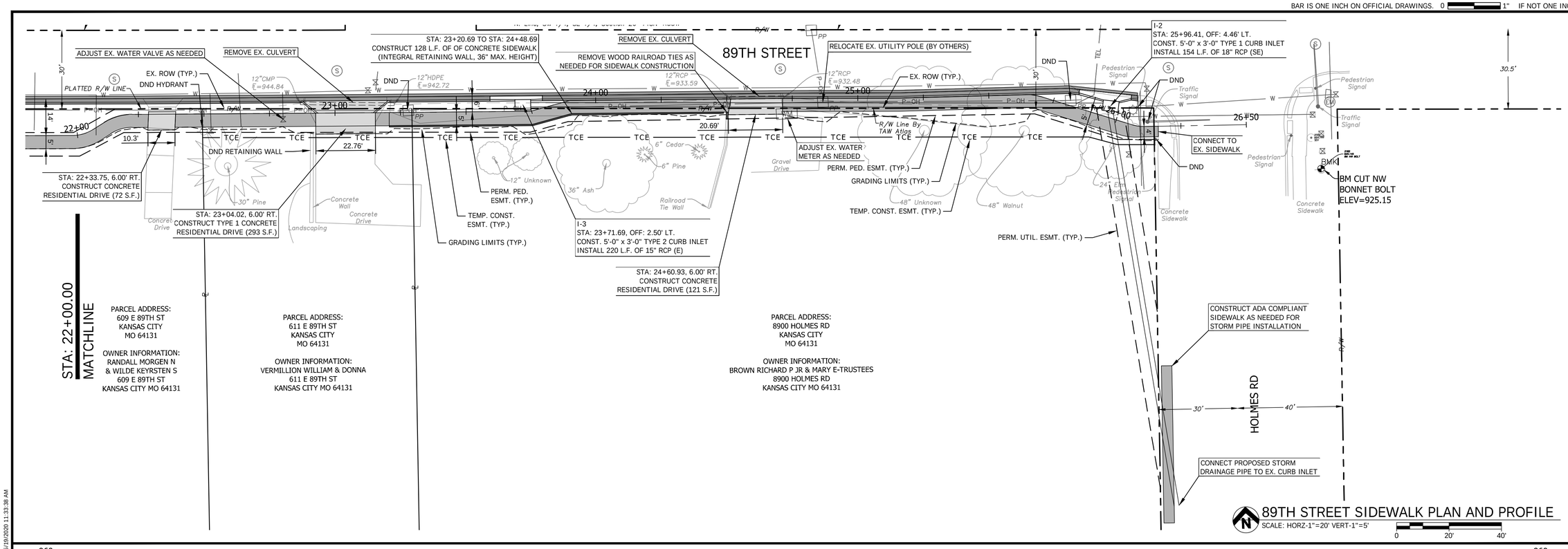

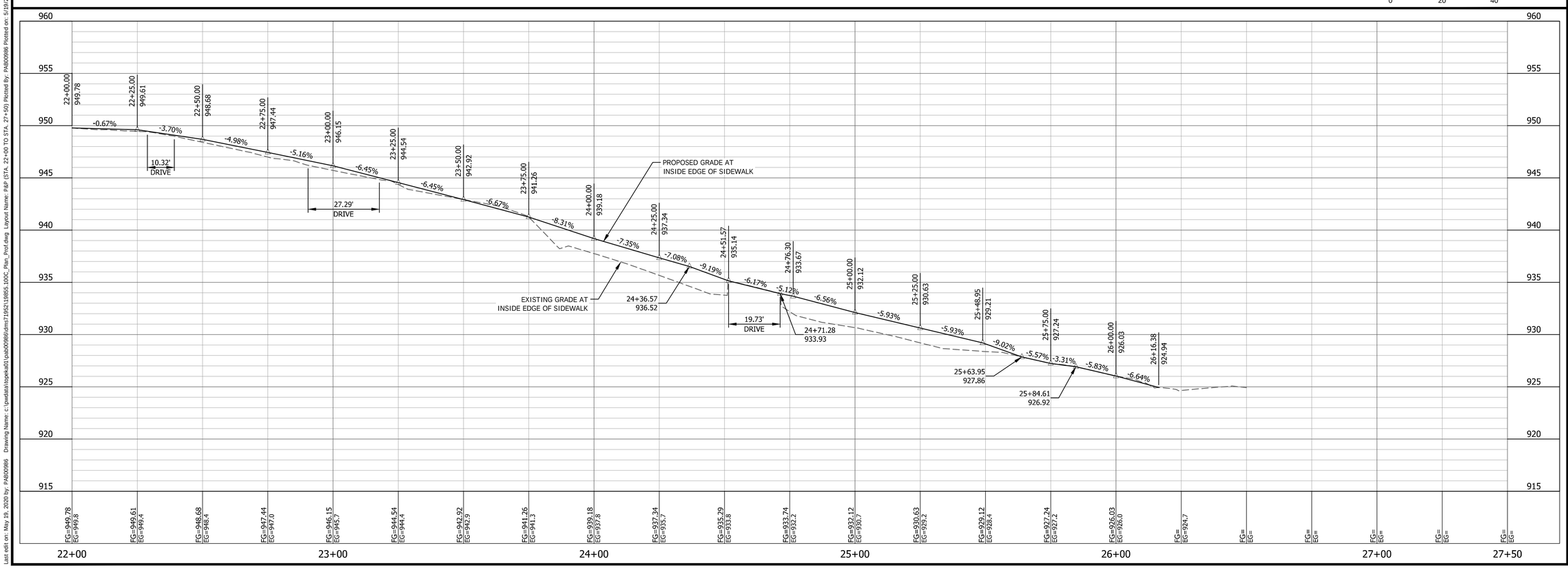

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SIDEWALK PLAN AND PROFILE (STA: 22+00.00 TO STA: 27+50.00)

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89TH STREET SIDEWALK IMPROVEMENTS PROJECT
KANSAS CITY, MISSOURI

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DESIGNED BY:	PAB
DRAWN BY:	PAB
APPROVED BY:	SK
DESIGN PROJ:	19855.100
DATE:	MAY 2020
DRAWING NO:	8
SHEET NO:	8 of 13

#	DATE	DESCRIPTION	BY

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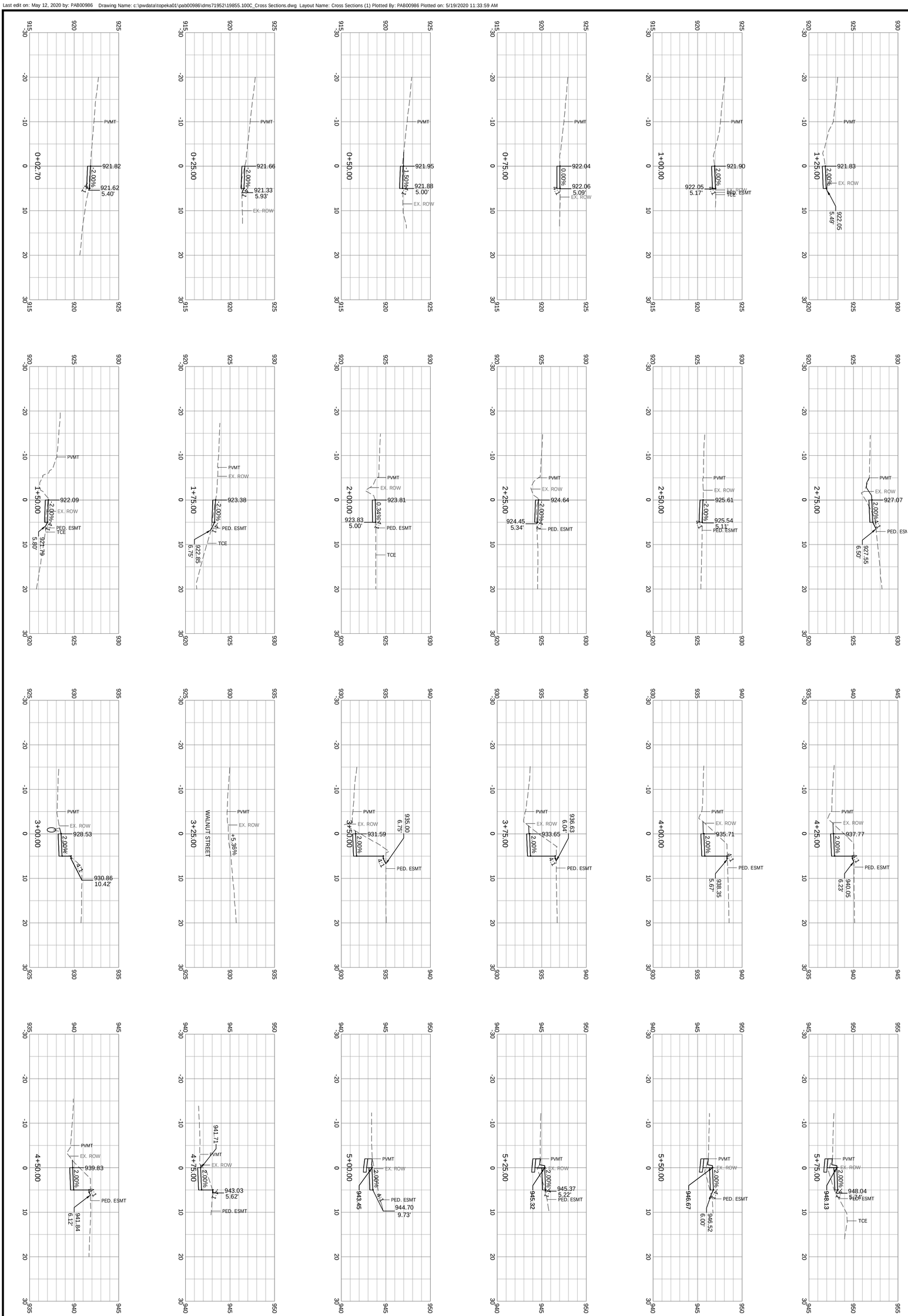

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SIDEWALK CROSS SECTIONS (STA: 0+02.70 TO STA: 5+50.00)

PO: DEP89-8900008994
89TH STREET SIDEWALK IMPROVEMENTS PROJECT
KANSAS CITY, MISSOURI

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#	DATE	DESCRIPTION	BY

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DRAWN BY:	PAB
APPROVED BY:	SK
DESIGN PROJ:	19855.100
DATE	MAY 2020
DRAWING NO:	9
SHEET NO:	9 of 13

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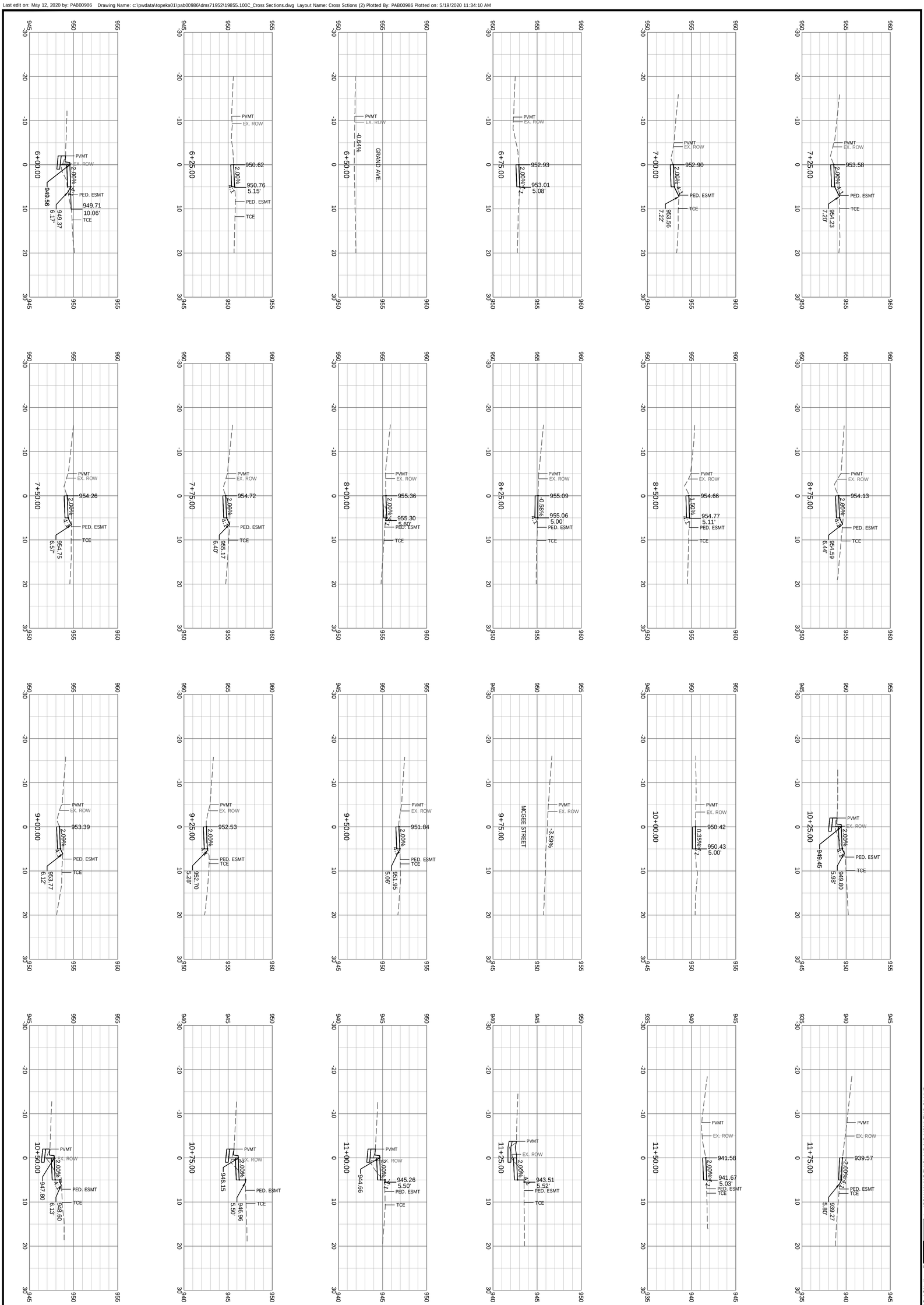

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SIDEWALK CROSS SECTIONS
(STA: 6+00.00 TO STA: 11+75.00)

PO: DEP89-8900008994
89TH STREET SIDEWALK IMPROVEMENTS PROJECT
KANSAS CITY, MISSOURI

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PHONE 573.634.3181
MISSOURI CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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#	DATE	DESCRIPTION	BY

SEALED DATE:	====
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DRAWN BY:	PAB
APPROVED BY:	SK
DESIGN PKG:	19855.100
DATE	MAY 2020
DRAWING NO:	10
SHEET NO:	10 of 13

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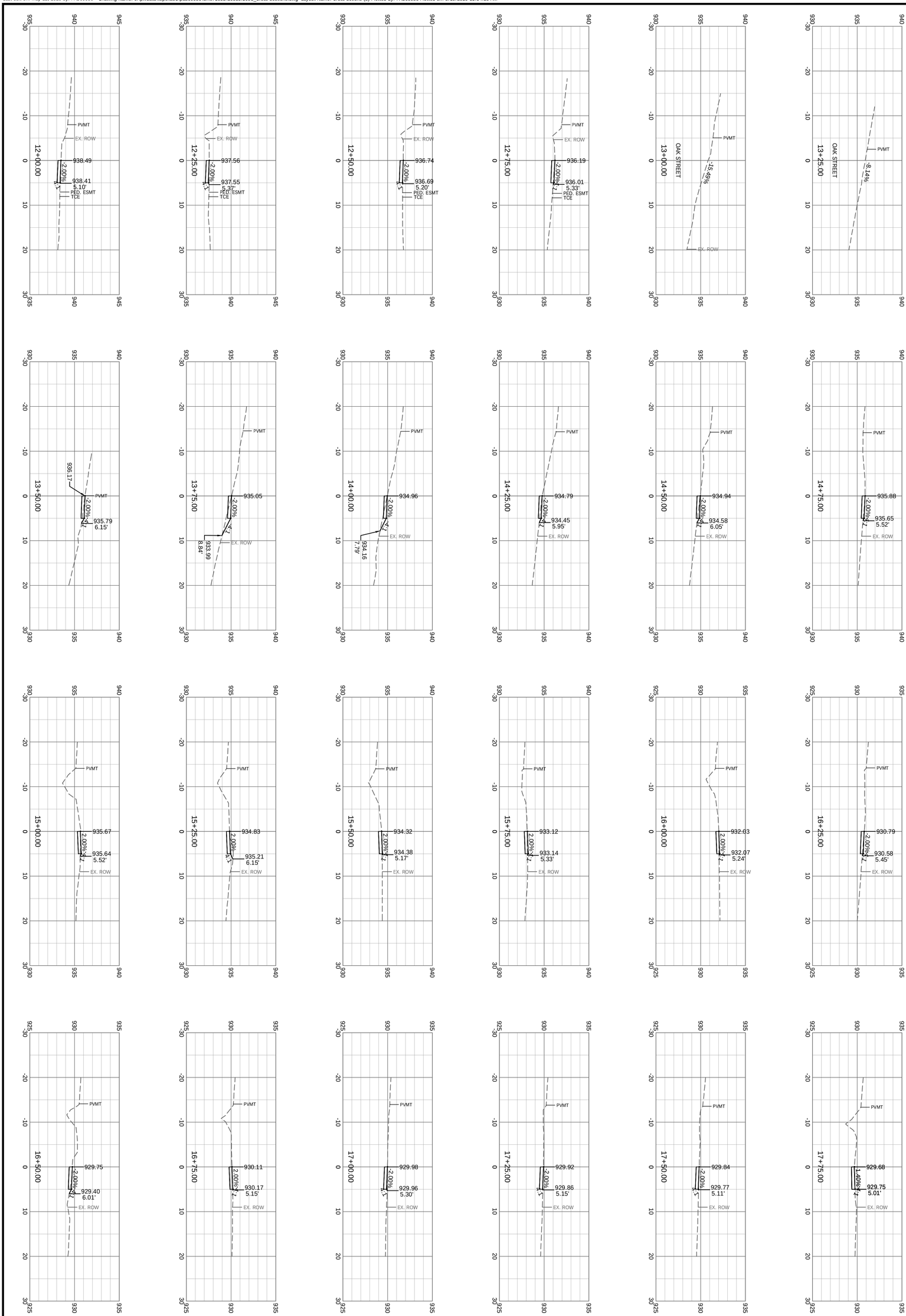

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SIDEWALK CROSS SECTIONS
(STA: 12+00.00 TO STA: 17+75.00)

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89TH STREET SIDEWALK IMPROVEMENTS PROJECT
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PHONE 573.634.3181
MISSOURI CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
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#	DATE	DESCRIPTION	BY

SEALED DATE: ====
DESIGNED BY: PAB
DRAWN BY: PAB
APPROVED BY: SK
DESIGN PROJ: 19855.100
DATE: MAY 2020
DRAWING NO: 11
SHEET NO: 11 of 13

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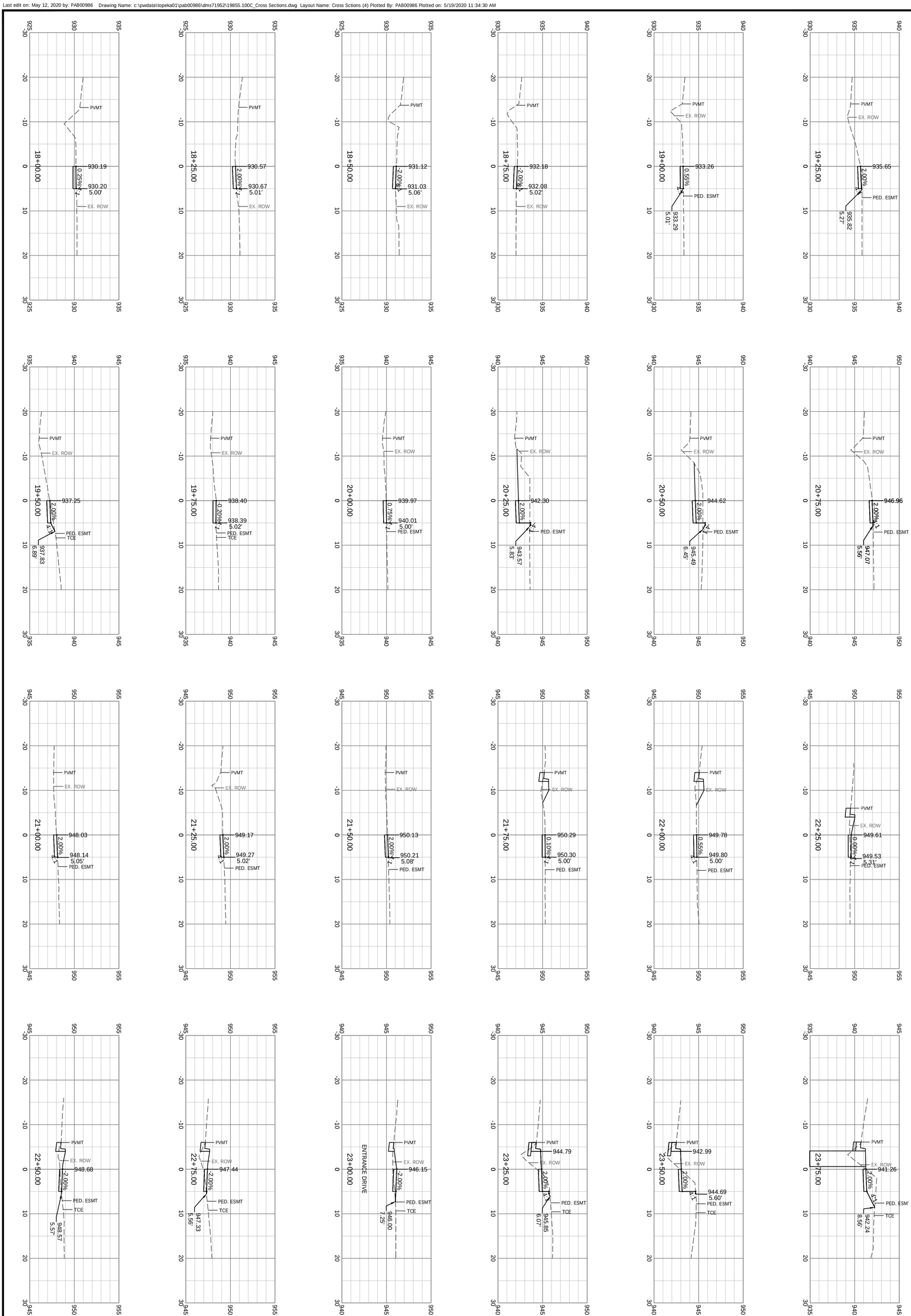

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DESIGNED BY:	PAB
DRAWN BY:	PAB
APPROVED BY:	SK
DESIGN PROJ:	19855.100
DATE	MAY 2020
DRAWING NO:	12
SHEET NO:	12 of 13

NOT FOR CONSTRUCTION

SIDEWALK CROSS SECTIONS
(STA: 18+00.00 TO STA: 23+75.00)

PO: DEP89-8900008994
89TH STREET SIDEWALK IMPROVEMENTS PROJECT
KANSAS CITY, MISSOURI

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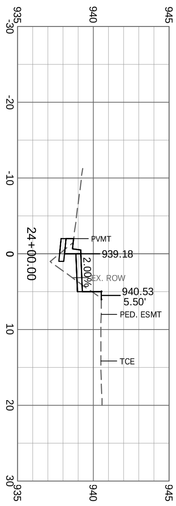

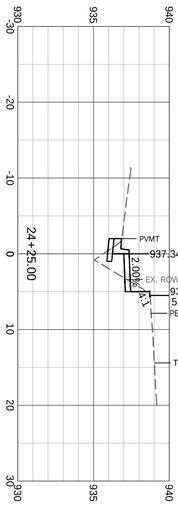

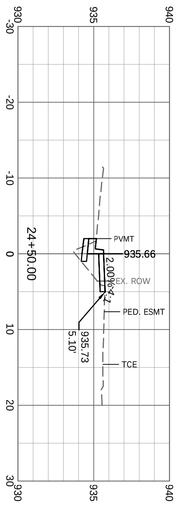

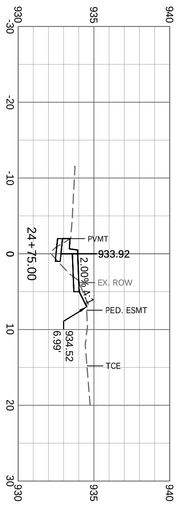

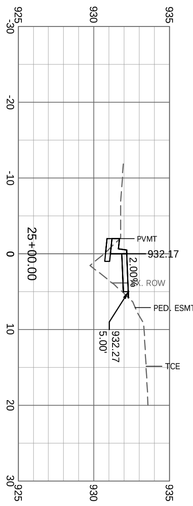

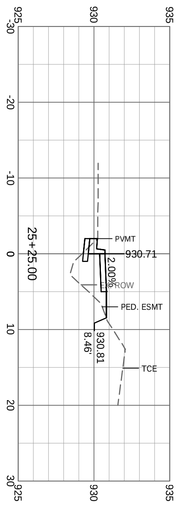

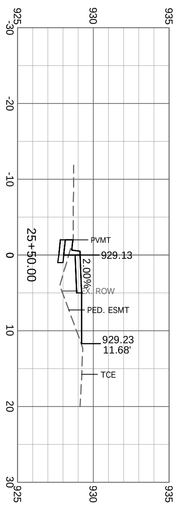

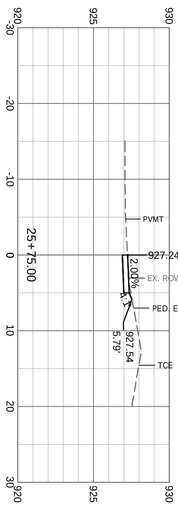

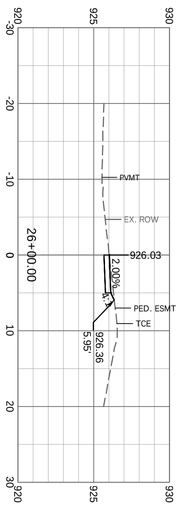

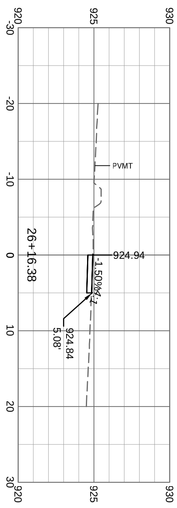

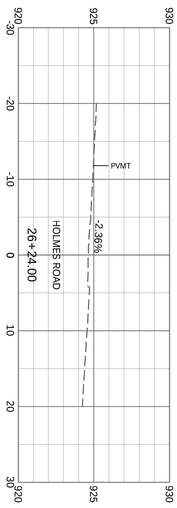

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