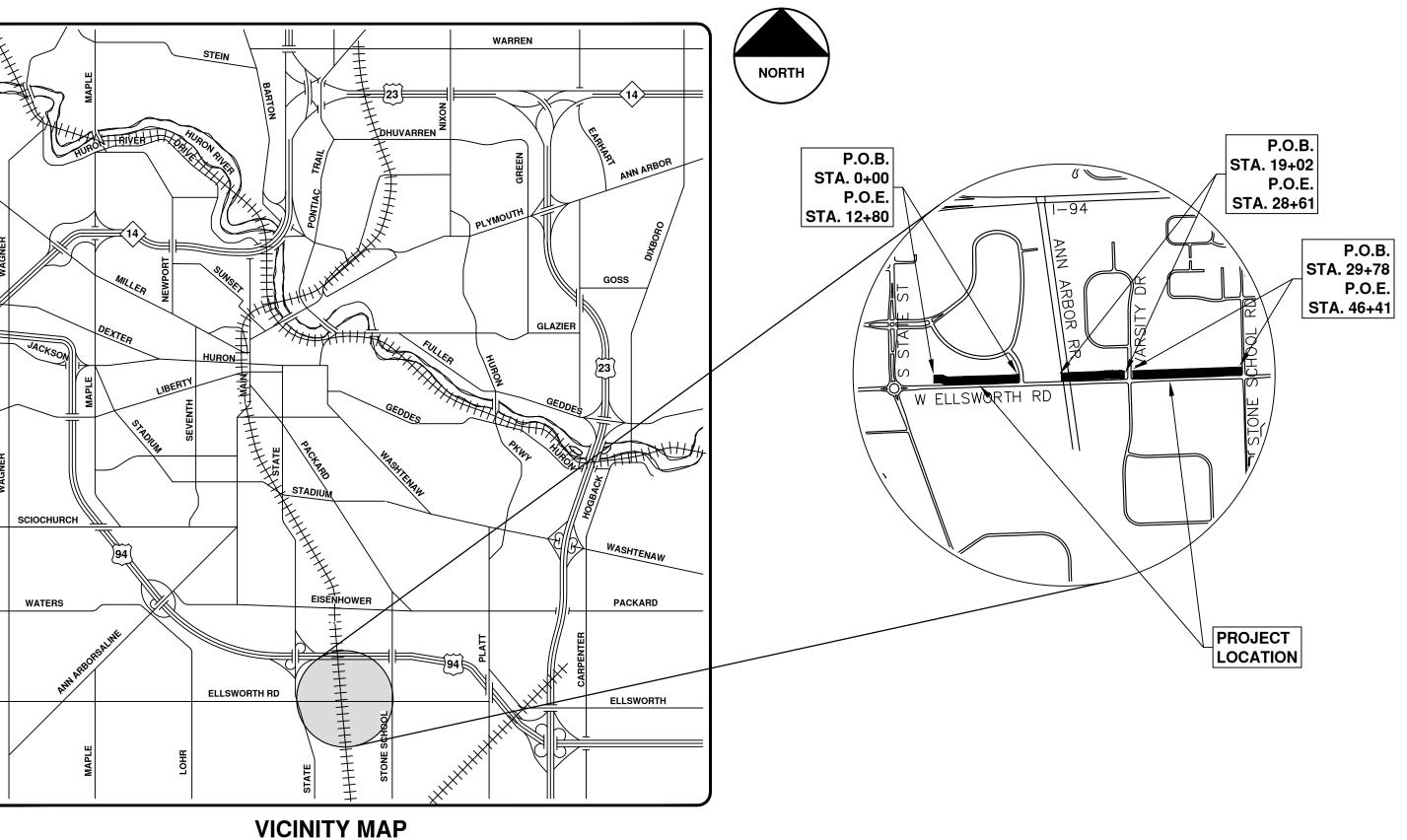


# **CITY OF ANN ARBOR** ENGINEERING ELLSWORTH RD SIDEWALK GAP ELIMINATION

	SHEET LIST TABLE
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	STANDARD NOTES
3	LEGEND AND DETAILS
4 - 5	REMOVALS - WEST OF RESEARCH PARK DR.
6	REMOVALS - EAST OF RAILROAD
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10 - 12	PROPOSED SIDEWALK - WEST OF RESEARCH PARK DR.
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17 - 20	PROPOSED SIDEWALK - VARSITY DR. TO STONE SCHOOL RD.
21 - 23	PROPOSED STORM SEWER





# **NOTES**:

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WIT PUBLIC ACT 174 OF 2013, THE CONTRACTOR SHALL CALL 811 OR 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS. TELEPHONE. ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE CITY OF ANN ARBOR ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE 1994 EDITION OF THE CITY OF ANN ARBOR PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS, ITS DETAILS, WHICH ARE INCLUDED BY REFERENCE, AND THIS PROJECT'S CONTRACT DOCUMENTS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.



CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING     CITY of ANN ARBOR       SCALE     ESCALE       SCALE     ENGINE SERVICES       SCALE     ENGINE SERVICES       DRAWNG NG     ENGINE SERVICES <t< th=""><th></th><th></th><th></th><th></th><th>_</th></t<>					_
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ES - ENGINEERING CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 ANN ARBOR, M 48107-8647 734-794-6410 WWW.a2goV.org			FINAL PLANS	REVIEW SET	DESCRIPTION
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1 OF 23

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PREPARED UNDER THE SUPERVISION OF THERESA BRIDGES, P.E. - MI LICENSE No. 6201052180

**PROJECT MANAGER** 6 / 22 /2022 DATE



2022007 δ 22 TION SID SWORTH

# **CONSTRUCTION NOTES:**

- DRIVEWAYS AND ENTRANCES TO BUILDINGS, REAL PROPERTY, AND THE LIKE SHALL NOT BE BLOCKED EXCEPT FOR SHORT DURATIONS AND ONLY WHEN APPROVED BY THE ENGINEER. VEHICULAR AND PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL NECESSARY DRIVEWAY CLOSURES WITH THE PROPERTY OWNER(S) AND RESIDENT(S) IN THE AREAS OF CONSTRUCTION.
- 2. THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND SERVICE LEADS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 3. LOCATION OF UTILITIES AS DEPICTED ON THE PLANS IS APPROXIMATE AND SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXCAVATE AHEAD AND ADJUST DEPTH OF CONFLICT UTILITIES ACCORDINGLY. ANY DAMAGE TO UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY TO AVOID AND/OR REPAIR AS NECESSARY.
- 4. DURING NON-WORKING HOURS NO TRENCH SHALL REMAIN OPEN UNLESS APPROVED BY THE ENGINEER; ANY OPEN TRENCH SHALL BE PROPERLY SECURED WITH PROTECTIVE FENCING. THIS WORK SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS".
- 5. THE LOCATION OF MATERIAL STOCK PILES AND ON-SITE STAGING AREAS SHALL BE APPROVED BY THE ENGINEER. ALL MATERIAL STOCKPILES SHALL BE MAINTAINED SUCH THAT DRAINAGE AND SIGHT DISTANCES ARE NOT ADVERSELY IMPACTED. SOIL EROSION REQUIREMENTS SHALL APPLY TO ALL MATERIAL STOCKPILES.
- 6. ALL EXCAVATION REQUIRED FOR PROJECT GRADING WITHIN THE PROJECT LIMITS, INCLUDING PROPOSED PAVEMENT, SIDEWALK, AND SIDEWALK RAMPS SHALL BE INCLUDED IN "STATION GRADING,\_\_\_\_\_.
- 7. EXCAVATON AND BACKFILL BEHIND CURB AND GUTTER SHALL BE INCLUDED IN "STATION GRADING, \_\_\_\_." ALL BACKFILL UNDER PROPOSED CONCRETE PAVEMENTS SUCH AS DRIVE APPROACHES, RAMPS, SIDEWALK, ETC., SHALL BE MDOT CLASS II GRANULAR MATERIAL, COMPACTED TO 95% OF ITS MAX. DRY DENSITY AND WILL BE PAID FOR AS "SAND SUBBASE COURSE, CLASS II, C.I.P." BACKFILL FOR OTHER AREAS MUST BE APPROVED BY THE ENGINEER AND COMPACTED TO 95% OF ITS MAX. DRY DENSITY. NO PAYMENT WILL BE MADE FOR SUB-BASE OR AGGREGATE BASE THAT EXTENDS BEYOND 12" BEHIND THE BACK OF CURB OR PROPOSED SIDEWALK EDGE. REFERENCE THE TYPICAL CROSS SECTIONS.
- 8. ALL CURB, SIDEWALK, AND DRIVEWAY APPROACH REMOVALS SHALL BE APPROVED BY ENGINEER BEFORE THE WORK IS PERFORMED. ALL CONCRETE AND BITUMINOUS MATERIALS SHALL BE SAW-CUT FULL-DEPTH AT THEIR REMOVAL LIMITS PRIOR TO REMOVAL. SAW-CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE "REMOVAL" ITEMS OF WORK.
- 9. PLACE 4" (MINIMUM) OR 6" (MINIMUM) THICKNESS CLASS II GRANULAR MATERIAL COMPACTED TO 95% OF ITS MAX. DRY DENSITY UNDER CONCRETE SIDEWALK AS SHOWN ON THE DETAILS. THIS WORK SHALL BE INCLUDED IN THE CONTRACT ITEMS "SAND SUBBASE COURSE, CLASS II, C.I.P."
- 10. A UNIFORM COAT(S) OF CURING COMPOUND SHALL BE APPLIED TO FRESHLY PLACED CONCRETE ACCORDING TO THE STANDARD SPECIFICATIONS AND DETAILED SPECIFICATIONS REGARDLESS OF THE DIFFICULTY INVOLVED. THE CONTRACTOR SHALL TAKE CARE TO PREVENT OVERSPRAY WHEN APPLYING CURING COMPOUND. SEVERAL DIFFERENT METHODS MAY NEED TO BE DEVELOPED TO PROTECT VARIOUS SITUATIONS, BUT ALL METHODS USED TO PREVENT OVERSPRAY OF THE CURING COMPOUND SHALL BE COMPLETELY EFFECTIVE. METHODS USED SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE. HOWEVER APPROVAL OF A METHOD DOES NOT GUARANTEE SUCCESS OR ACCEPTABILITY. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR COMPLYING WITH THESE REQUIREMENTS.
- 11. "NO PARKING" SIGNS SHALL BE INSTALLED BY THE CONTRACTOR AT LOCATIONS AS APPROVED OR DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILED SPECIFICATIONS.
- 12. POSTAL DELIVERY AND SOLID WASTE PICKUP SERVICE AS WELL AS EMERGENCY VEHICLE ASSESSIBILITY SHALL BE MAINTAINED AT ALL TIMES BY THE CONTRACTOR.
- 13. WHERE STREET CURBS ARE UNDERMINED DUE TO CONSTRUCTION ACTIVITIES, THEY SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUED MAINTENANCE OF SOIL EROSION CONTROL MEASURES WITHIN THE CONSTRUCTION AREA UNTIL THE FULL COMPLETION OF THE PROJECT. THIS WORK SHALL BE INCLUDED IN THE ITEM OF WORK "GENERAL CONDITIONS".
- 15. ALL STRUCTURES SHALL RECEIVE NEW CASTINGS AS DIRECTED BY THE ENGINEER, AS SPECIFIED ON THE STANDARD CASTING SCHEDULE. THE EXISTING CASTINGS ARE THE PROPERTY OF THE CITY OF ANN ARBOR. THE CONTRACTOR SHALL DELIVER TO CITY OF ANN ARBOR PUBLIC WORKS FACILITY AT THE W.R. WHEELER SERVICE CENTER LOCATED AT 4251 STONE SCHOOL ROAD.
- 16. EXISTING STREET NAME, GUIDE, AND REGULATORY SIGNS, AND MAILBOXES WHICH CONFLICT WITH THE PROPOSED CONSTRUCTION SHALL BE REMOVED PRIOR TO CONSTRUCTION, STORED IN A MANNER WHICH WILL PREVENT DAMAGE, AND RE-SET IN LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN "STATION GRADING"

<u>GENERAL</u>

- NOTIFY THE CITY OF ANN ARBOR SOIL EROSION CONTROL OFFICE 48 HOURS PRIOR TO BEGINNING WORK ON THE PROJECT. PHONE: 734-794-6265.
- 1. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER AT ALL TIMES DURING CONSTRUCTION. ANY MODIFICATIONS OR ADDITIONS TO THE SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER.
- 2. ALL SOIL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE PERMIT REQUIREMENTS OF THE CITY OF ANN ARBOR, CHAPTER 55 ANN ARBOR UNIFIED DEVELOPMENT CODE, CITY OF ANN ARBOR STANDARDS DIVISION VII, THE LAWS OF THE STATE OF MICHIGAN, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 3. DAILY, OR AFTER ANY STORM EVENT. INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE MADE BY THE CONTRACTOR. PERIODIC INSPECTIONS MAY BE MADE BY THE ENGINEER TO DETERMINE THE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES. ANY NECESSARY CORRECTIONS SHALL BE MADE WITHOUT DELAY, AND WITHOUT ADDITIONAL COST TO THE CITY OF ANN ARBOR.
- 4. EROSION AND SEDIMENTATION FROM WORK ON THE SITE SHALL BE CONTAINED ON THE SITE AND NOT BE ALLOWED TO COLLECT ON ANY OFF-SITE AREAS, ROADWAYS OR WATERWAYS.
- 5. ALL MUD/SOIL TRACKED ONTO ROADWAYS FROM THE SITE DUE TO CONSTRUCTION. SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR. IF SO ORDERED. THE CONTRACTOR SHALL PROVIDE AND OPERATE A VACUUM-TYPE STREET SWEEPER, AT NO ADDITIONAL COST TO THE CITY OF ANN ARBOR.
- 6. RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF TOPSOIL SEED, FERTILIZER AND MULCH AND/OR SOD SHALL BE PERFORMED WITHIN FIVE (5) DAYS OF THE COMPLETION OF FINAL GRADE.
- 7. CONSTRUCTION OPERATIONS SHALL BE SCHEDULED AND PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING OPERATIONS.
- 8. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.
- 9. PROPER DUST CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION BY USE OF WATER TRUCKS AND/OR DUST PALLATIVE AS REQUIRED.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND REMOVAL OF SOME MEASURES UPON AUTHORIZED COMPLETION OF THE PROJECT. FINAL COMPLETION OF PROJECT WILL NOT BE AUTHORIZED UNTIL ALL SITE WORK AND UTILITY CONSTRUCTION IS COMPLETE AND ALL SOILS ARE STABILIZED.
- 11. THE CONTRACTOR SHALL NOT GRADE INTO ADJACENT PROPERTIES. SILT AND PROTECTIVE FENCE SHALL BE INSTALLED AND MAINTAINED TO PREVENT GRADING, EROSION AND SEDIMENTATION INTO THE ADJACENT PROPERTIES.
- 12. TREE PROTECTION FENCING MUST REMAIN INTACT UNTIL RESTORATION OF THE SITE IS COMPLETE.

# SEQUENCE OF EROSION CONTROL MEASURES:

1. THE CONTRACTOR IS TO SUBMIT TO THE ENGINEER, A SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION CONTROL MEASURES FOR REVIEW, COMMENT AND APPROVAL. THIS SCHEDULE IS TO INCLUDE INSPECTION AND REPAIR OF ALL TEMPORARY EROSION CONTROL MEASURES DAILY AND WITHIN 24 HOURS OF A STORM EVENT.

SAMPLE SOIL EROSION AND SEDIMENTATION CONTROL INSTALLATION MINIMUM REQUIREMENTS:

- 1.1. INSTALL SILT FENCE, TREE PROTECTION FENCING, MUD MATS, INLET FILTERS ON EXISTING DRAINAGE FEATURES, AND ALL OTHER TEMPORARY SOIL EROSION CONTROLS. PRIOR TO ANY CLEARING OR EARTH MOVING OPERATION.
- 1.2. STRIP AND STOCKPILE TOPSOIL. STABILIZE STOCKPILE AS REQUIRED.
- 1.3. PERFORM STATION GRADING OPERATIONS AND CONSTRUCT PAVEMENTS (MAINLINE, SIDEWALKS, DRIVES, ETC.).
- 1.4. CONTINUALLY MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES. AS REQUIRED TO ALLOW DRAINAGE AND SEDIMENT REMOVAL. REMOVE ANY ACCUMULATED SEDIMENT IMMEDIATELY.
- 1.5. COMPLETE ALL FINE GRADING.
- 1.6. TEMPORARY SEED AND INSTALL EROSION CONTROL BLANKET IN ALL DISTURBED AREAS.
- 1.7. REFER TO PLANS FOR PERMANENT SITE STABILIZATION.
- 1.8. CLEAN OUT STORM SEWER SYSTEMS.
- 1.9. REMEDY ANY NOTED DEFECTS TO THE SATISFACTION OF THE CITY OF ANN ARBOR'S SOIL EROSION AND SEDIMENTATION CONTROL OFFICIAL.
- 1.10. ALL TEMP. SOIL EROSION CONTROL MEASURES MUST BE REMOVED, WITH ENGINEERS APPROVAL, PRIOR TO FINAL INSPECTION

NOTE: THIS SEQUENCE IS FOR INFORMATION ONLY. IT IS INTENDED TO SHOW THE SEQUENCE OF CONSTRUCTION WITH RESPECT TO THE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THEIR OWN DETAILED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE ENGINEER FOR REVIEW, COMMENT, AND APPROVAL.

# TEMPORARY SEEDING:

- 1. SEED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
- 2. ANY DISTURBED AREA NOT PAVED, SEEDED, MULCHED, SODDED OR BUI BY NOVEMBER 15TH OR JUNE 30TH IS TO BE TEMPORARILY STABILIZ SPECIFICATIONS.

THE ESTIMATED COST OF SOIL EROSION AND SEDIMENTATION CONTROL ME TOPSOIL, SEEDING, AND MULCH = \$10,000

ON SITE SOILS PER THE USDA SOIL SURVEY OF WASHTENAW COUNTY, MICHI

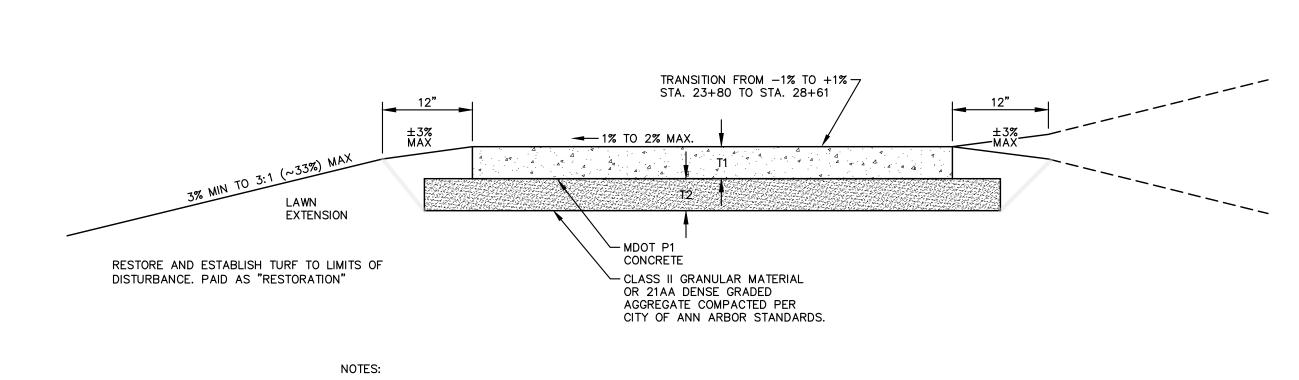
ELLSWORTH RD.

- MfA METAMORA SANDY LOAM, 0 TO 4 PERCENT SLOPES
- Nab NAPPANEE SILTY CLAY LOAM, 2 TO 6 PERCENT SLOPES Sb – SEBEWA LOAM, DISINTEGRATION MORAINE, 0 TO 2 PERCENT SLOPE

ESTIMATE OF EXCAVATION AND FILL FROM EXISTING TO FINAL GRADE: EXCAVATION = 62.49 CY, FILL = 457.32 CY

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		STORM			ARBOR PUBLIC WORKS SERVICE CENTER	(734) 794–6350			
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		PHONE		SOUTHFIELD, M		MARC GOODELL		PUBLI 01 EAST P.O	NN ARB( 73. ww
				550 S. MAPLE ANN ARBOR,		(313) 405-0574		ABOR	
		FIBER C	PIIC	MCI 2800 N. GLEN RICHARDSON,		DEAN BOYERS (972) 729–6016			
		FIBER C	PTIC		N ROAD, SUITE B	GREG SERICH (810) 244–3500		U	
		STREET	LIGHTING	FLINT, MI 485 DTE ENERGY 8001 HAGGER BELLEVILLE, M	TY ROAD	LANCE ALLEY (734) 397–4188			
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			PROJECT	「NAME BEN	CHMARKS			/ALK G	<b>_</b> 0
	BM #	ELEV	PROJECT DESCRIPTION SET RR SPIKE IN S. SIDE			E IS 25'± E. OF BELLE		Х С	NOTES
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CABLE		COMCAST 27800 FRAN SOUTHFIELD,		RON SOUTHERLAND (313) 999–8300	OF ANN	BLIC SEF AST HURO	P.O. BOX ARBOR, MI 734-794-6	www.a2gov.org
PHONE		AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103		MARC GOODELL (313) 405–0574	CITY	PUI 301 E	ANN A	
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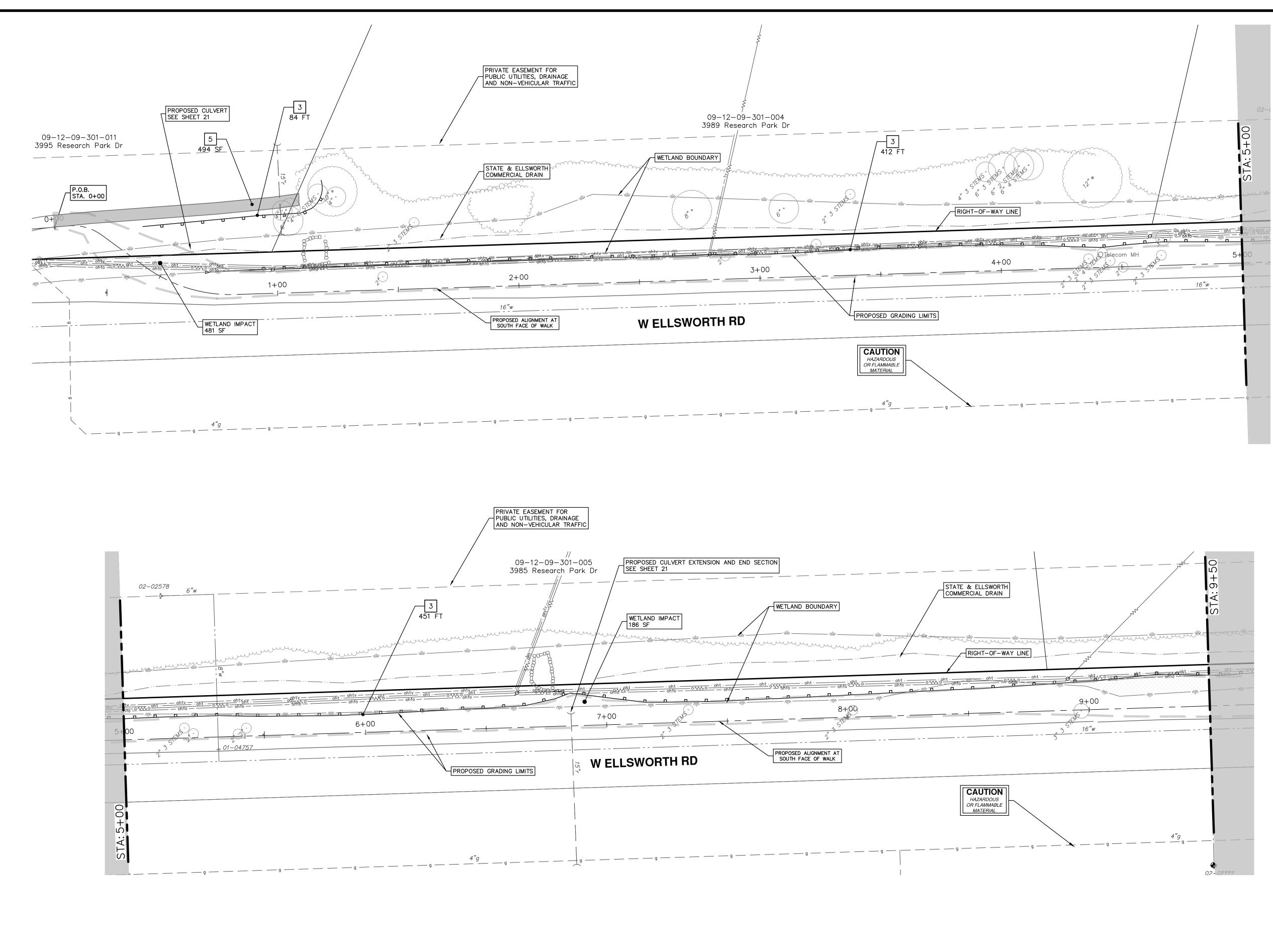


- 1. SIDEWALK SHALL BE A DESIGNED AND CONSTRUCTED TO MEET ALL ADA STANDARDS AND REQUIREMENTS.
- 2. CITY OF ANN ARBOR MINIMUM STANDARD WIDTH OF SIDEWALK IS FIVE (5) FEET.
- 3. CONCRETE SIDEWALK THICKNESS (T1) SHALL BE A MINIMUM OF FOUR (4) INCHES.
- 4. SIDEWALK THICKNESS (T1) SHALL BE INCREASED AT DRIVE APPROACHES TO SIX (6) INCHES FOR SINGLE-FAMILY OR DUPLEX RESIDENTIAL USES. ALL OTHER USES REQUIRE A MINIMUM EIGHT (8) INCH THICKNESS WITHIN THE DRIVE APPROACH.
- 5. BASE THICKNESS (T2) SHALL BE A MINIMUM OF FOUR (4) INCHES.
- 6. THICKNESS OF THE BASE (T2) SHALL BE INCREASED TO A MINIMUM OF SIX (6) INCHES WITHIN THE DRIVE APPROACH.
- 7. IF EXISTING SUBGRADE MATERIAL IS APPROVED BY THE ENGINEER FOR USE, COMPACT THE EXISTING SUBGRADE TO 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY. 8. NATIVE MATERIAL MAY BE ACCEPTABLE FOR SIDEWALK CONSTRUCTION, IF THE BASE IS
- STABLE AND FREE OF ORGANIC OR DELETERIOUS MATERIALS. 9. SIDEWALK RAMPS SHALL BE CONSTRUCTED AT STREET INTERSECTIONS AS DIRECTED AND
- SHALL COMPLY WITH THE REQUIREMENTS OF MDOT DETAIL R-28 (LATEST VERSION). 10. SIDEWALKS MAY MEANDER WITHIN THE RIGHT-OF-WAY TO PROTECT AND PRESERVE NATURAL FEATURES.
- 11. EXPANSION AND CONTRACTION JOINTS SHALL BE PROVIDED PER CITY OF ANN ARBOR STANDARD DETAILS AND SPECIFICATIONS.

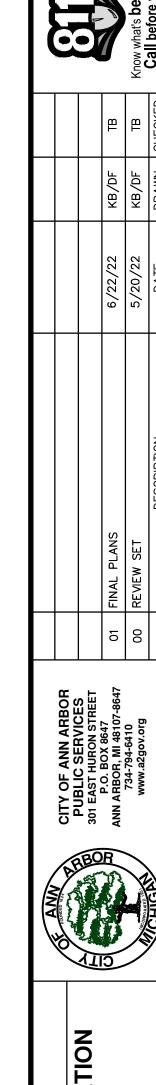
# SIDEWALK CROSS SECTION, SD-R-9

EXISTING LEGEND			PROPOSED LEGEND			v. dig.
∲+ FIRE HYDRANT	<i>W</i>	WATER MAIN	∳+ HYDRANT (PLAN)	W	WATER MAIN	e you dig.
GATE VALVE IN BOX	/ _/ _/ _// _/ _/ _/	WATER MAIN ABANDONED	↔ WATER GATE WELL		STORM SEWER	Know what's be Call before
⊗ GATE VALVE IN WELL	<u> </u>	STORM SEWER	▼ REDUCER	<u></u>	SANITARY SEWER	
● STOP BOX	///	STORM SEWER ABANDONED	WATER GATE VALVE	——F0— — — — ——	FIBER OPTIC	
WATER VAULT	<u>S</u>	SANITARY SEWER	WATER STOP BOX	——Е — — — — ——	ELECTRICAL	XED m m
WELL	//	SANITARY SEWER ABANDONED	W WATER VAULT		CENTERLINE OF DITCH	TB TB CHECKED
CATCH BASIN (SQ)	g	GAS MAIN	INLET		CENTERLINE OF ROAD	
CATCH BASIN (RD)	g (Dead)	GAS MAIN (DEAD)	DOUBLE INLET	////	FENCE	KB/DF KB/DF DRAWN
O STORM MANHOLE	o^vo	ELECTRICAL OVER HEAD	INLET JUNCTION CHAMBER	:·:·	GRAVEL	
□ NON-CURB CATCH BASIN (SQ)	e duct bank	ELECTRICAL UNDER GROUND	ROUND CATCH BASIN		SILT FENCE	
) END SECTION O SANITARY MANHOLE	e duct bank	ELECTRICAL DUCT BANK	STORM MANHOLE		PROTECTIVE FENCE	6/22/22 5/20/22 DATE
O CLEAN-OUT		TELEPHONE OVER HEAD			GUARDRAIL	D D
<ul> <li>POST</li> </ul>		TELEPHONE UNDER GROUND	FLARED END SECTION			
PEDESTRIAN SIGNAL	t duct bank	TELEPHONE DUCT BANK	<ul> <li>SANITARY MANHOLE</li> <li>CLEAN-OUT</li> </ul>		CURB TEMPORARY GRADING PERMIT	
⊧ SIGN	ohtv	CABLE TV OVER HEAD	BARREL	800	CONTOUR MAJOR	
HAND HOLE	tv	CABLE TV UNDER GROUND		799	CONTOUR MINOR	
🌣 ORNAMENTAL LIGHT	fo	FIBER OPTIC			WATER EASMENT	Z
举 FLOOD LIGHT	fo duct bank	FIBER OPTIC DUCT BANK	HAND HOLE		STORM EASEMENT	DESCRIPTION
③ UNKNOWN MANHOLE		BOUNDARY			SANITARY EASEMENT	ESCA
© TELEPHONE MANHOLE	_/ / / / / / / / / / / / / /	BUILDING			R.O.W.	
TELEPHONE RISER		CENTERLINE OF DITCH			LIMITS OF CONSTRUCTION	PLANS V SET
GAS VALVE     GAS VALVE		CENTERLINE/CROWN OF ROAD			LIMIT OF GRADING	E M I
O GAS VENT	<i>800</i>	CONTOUR MAJOR			STONE WALL	FINAL P REVIEW
GAS BOX	— — — — 799 — — — —	CONTOUR MINOR			DETECTABLE WARNING	00 00 01 REV.
		EDGE OF WATER				
		FLOODPLAIN			ASPHALT	~
Ø UTILITY POLE	//////	FENCE				RBOR ICES STREET 7 107-8647 19 107-8647
<ul> <li>GUY ANCHOR</li> </ul>	:·:·:·	GRA VEL			CONCRETE	N AR N AR 0N S1 0N S1 0N S1 0 4810 6410 50.0rg
GUY POLE		GUARDRAIL				ANI C SE HURC BOX R, MI R, MI V.a2go
MONITORING WELL	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	STONE WALL			SIDEWALK	Y OF BLIO P.O. ARBC 734 www
MAILBOX		R.O.W.				CITY OF PUBLI 301 EAST PLO ANN ARBO 73 WWW
SOIL BORING		TREELINE WETLAND				
△ TRAVERSE POINT		EDGE OF BRUSH			TREE (DECIDUOUS)	ARBOR
+ BENCH MARK						
O IRON PIPE		HEDGE				
• MON BOX				2Mz		
		TREE (DECIDUOUS)		$\leq \bullet \leq$	TREE (CONIFEROUS)	
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	$\wedge \wedge \downarrow$					
	5 My				TREE TO BE REMOVED (DECIDUOUS)	
	$\geq$ • $\geq$	TREE (CONIFEROUS)				AP
	Zwr					U U U
		SHRUB (DECIDUOUS)				VEERING SIDEWAL ATION DETALS
	کر ہے؟				TREE TO BE REMOVED (CONIFEROUS)	ENGINEERING TH RD SIDEWAL LIMINATION Gend & details
						NEERII SIDEW IATION
		STUMP		~~~~		
		7				- ENGIN RTH RD ELIMIN
	C.Y			{	STUMP TO BE REMOVED	- ENG RTH RE ELIMII
		TREE TO REMAIN & PROTECT (DECIDUOUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREA	AST HEIGHT (INCHES) X 10			
						<u>Š</u>
						SERVICES - ENGI ELLSWORTH RD ELIMIN LEGEND 8
	ML C.P	· <del>L</del> ··				
	5	TREE TO REMAIN & PROTECT (CONIFEROUS) CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREA				
	4	CRITICAL ROOT ZONE (C.R.Z.) = DIAMETER BREA	AST HEIGHT (INCHES) X 10			
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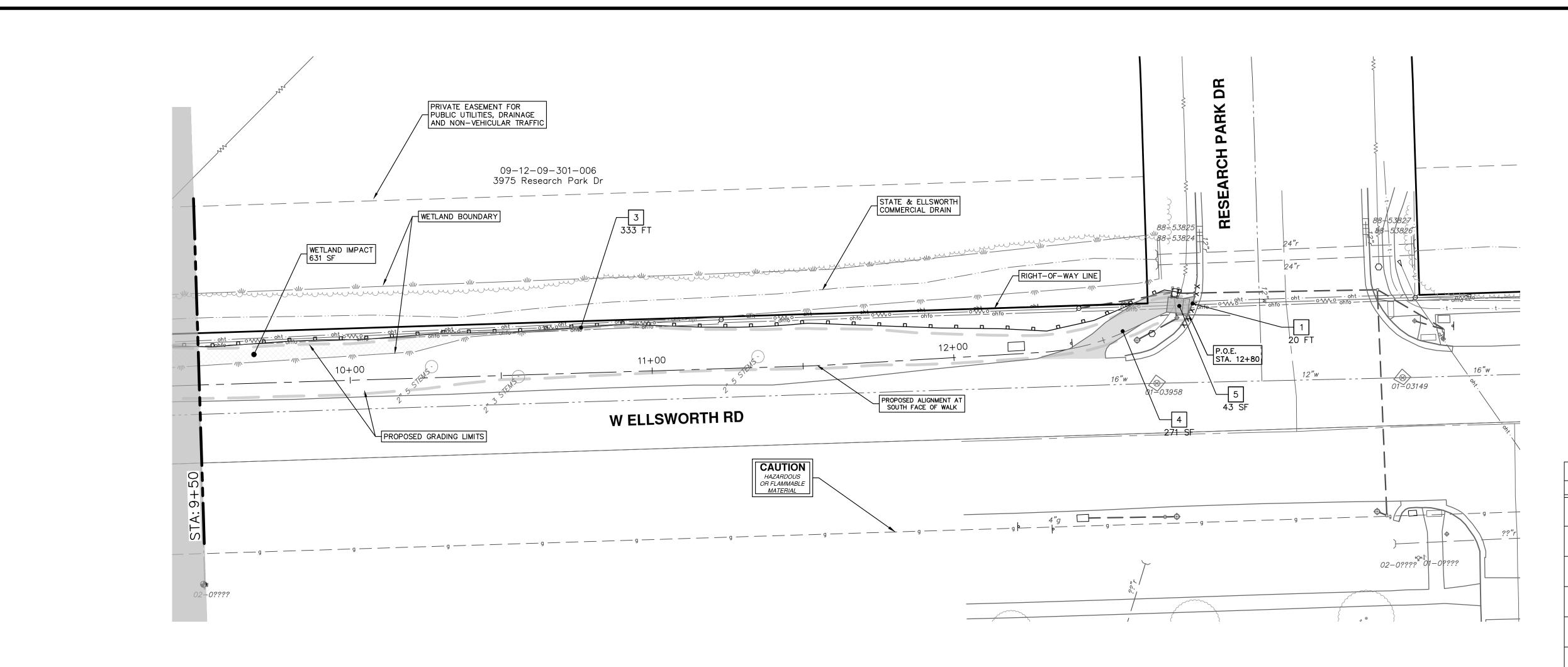




	REMOVAL KEY
KEY	DESCRIPTION
1	REMOVE CONCRETE CURB AND GUTTER – ANY THICKNESS*
2	EROSION CONTROL, INLET PROTECTION
3	EROSION CONTROL, SILT FENCE
4	REMOVE HMA PAVEMENT
5	REMOVE CONCRETE SIDEWALK OR DRIVE – ANY THICKNESS
6	PROTECTIVE FENCING
* SAW	CUT FULL DEPTH AT REMOVAL LIMITS



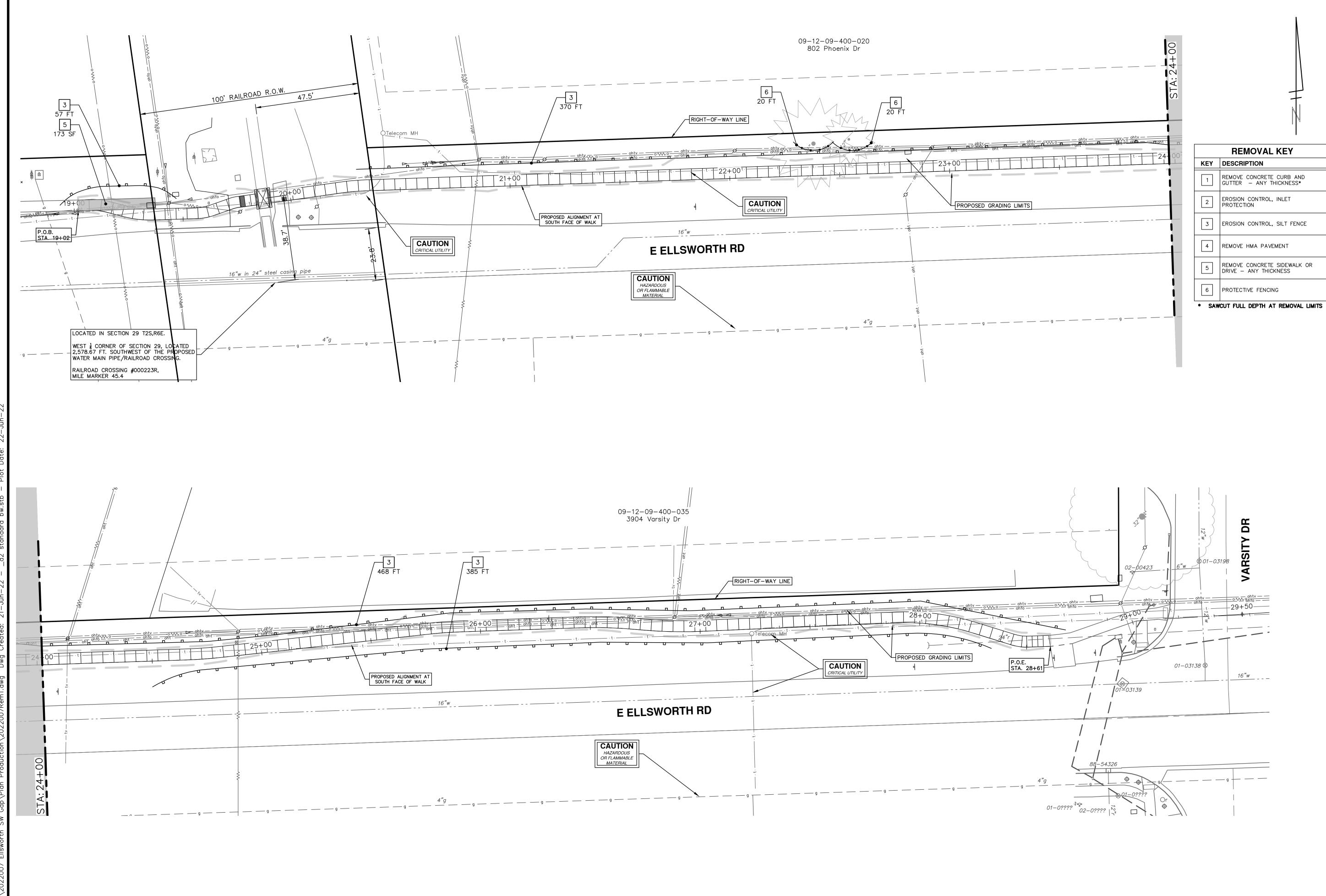


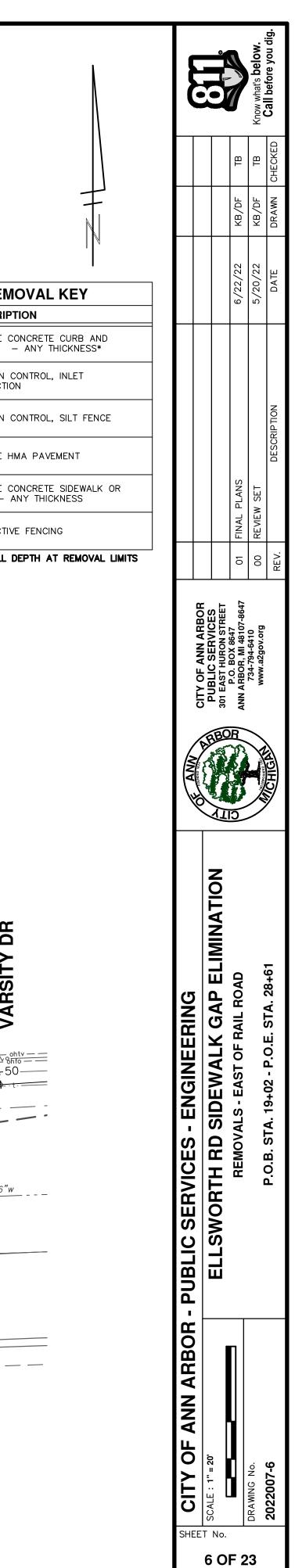


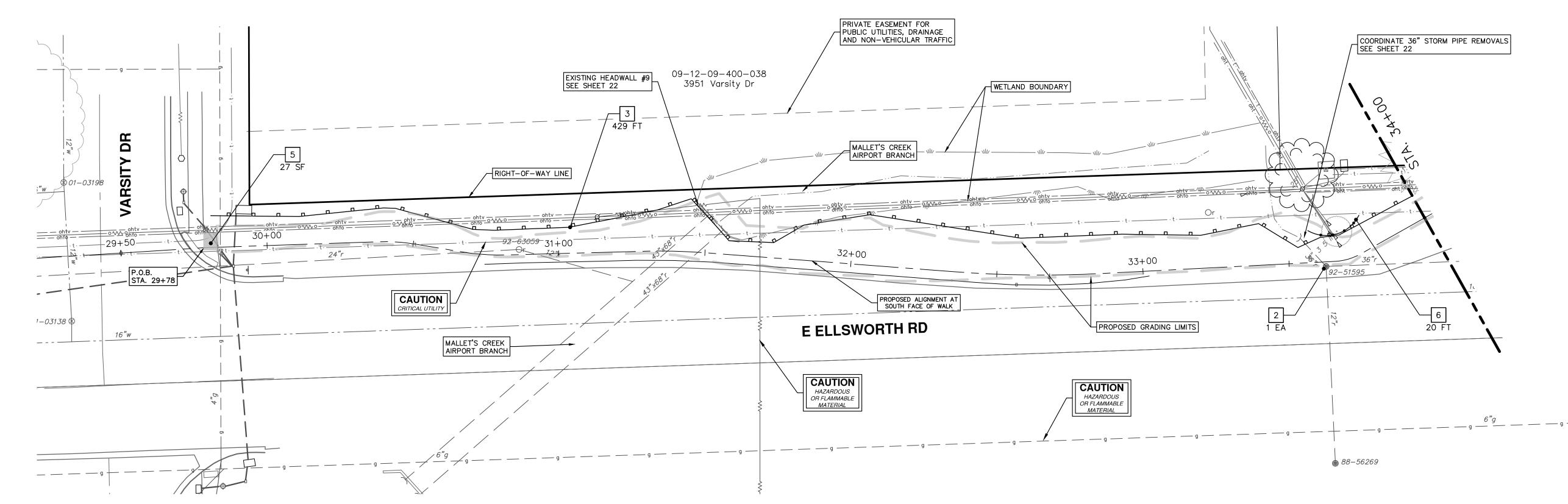
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1	REMOVE CONCRETE CURB AND GUTTER – ANY THICKNESS*
2	EROSION CONTROL, INLET PROTECTION
3	EROSION CONTROL, SILT FENCE
4	REMOVE HMA PAVEMENT
5	REMOVE CONCRETE SIDEWALK OR DRIVE – ANY THICKNESS
6	PROTECTIVE FENCING

S	AWCUT	FULL	DEPTH	AT	REMOVAL	LIMITS

CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING	1 - PUBLIC SERVICES - ENGINEERING	ANN
TT = 20 ELSWORTH RD SIDEWALK GAP ELIMINATION		
REMOVALS - WEST OF RESEARCH PARK DR.	REMOVALS - WEST OF RESEARCH PARK DR.	
2022007-5 STA. 9+50 - P.O.E. STA. 12+80	STA. 9+50 - P.O.E. STA. 12+80	ALCHICH CHICK





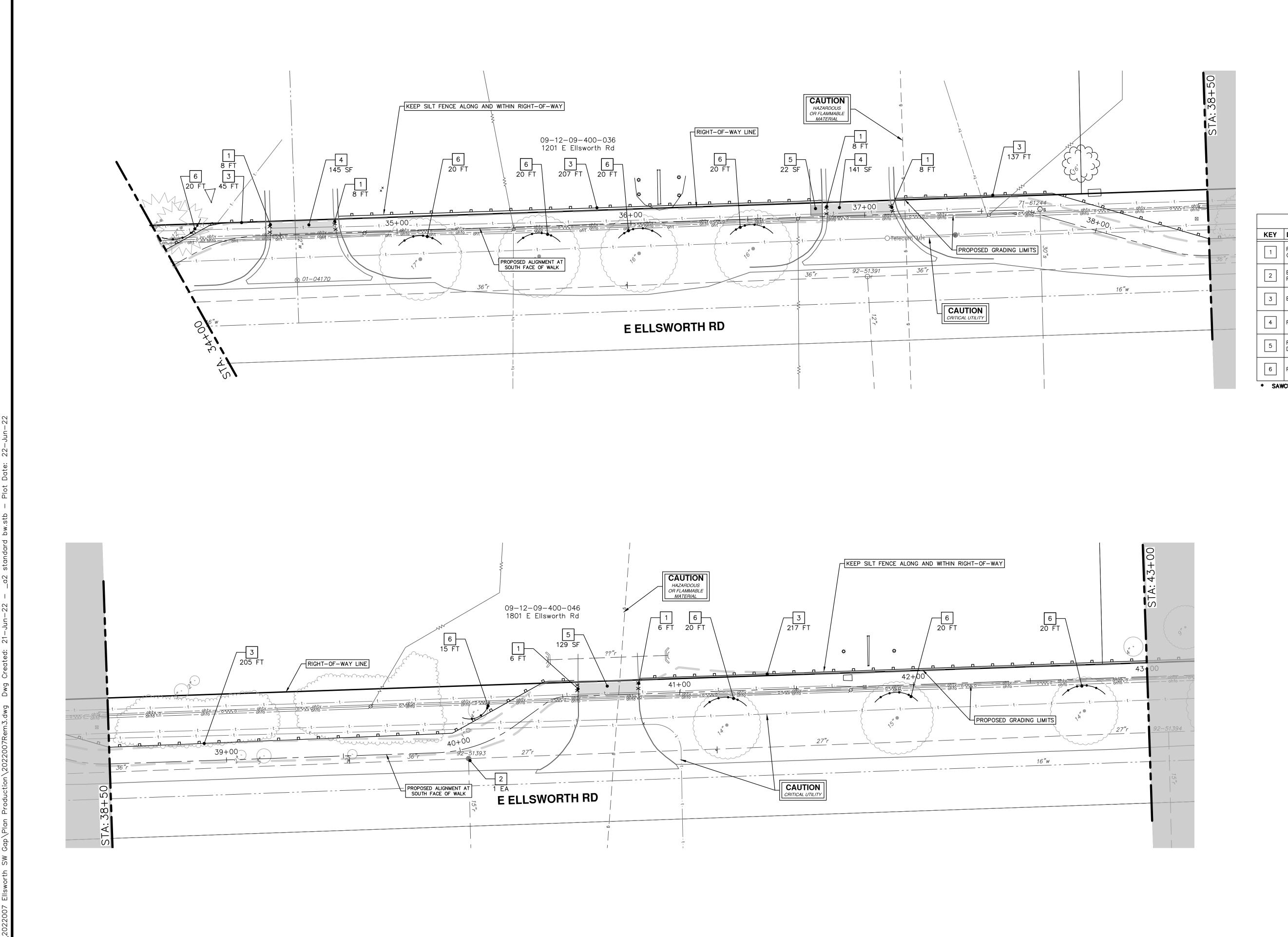




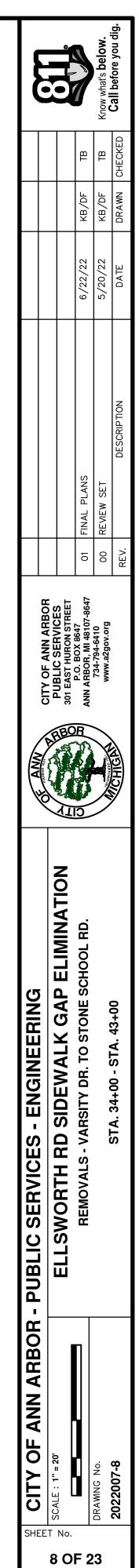
	REMOVAL KEY		
KEY	DESCRIPTION		
1	REMOVE CONCRETE CURB AND GUTTER – ANY THICKNESS*		
2	EROSION CONTROL, INLET PROTECTION		
3	EROSION CONTROL, SILT FENCE		
4	REMOVE HMA PAVEMENT		
5	REMOVE CONCRETE SIDEWALK OR DRIVE – ANY THICKNESS		
6	PROTECTIVE FENCING		
* SAW	CUT FULL DEPTH AT REMOVAL LIMITS		

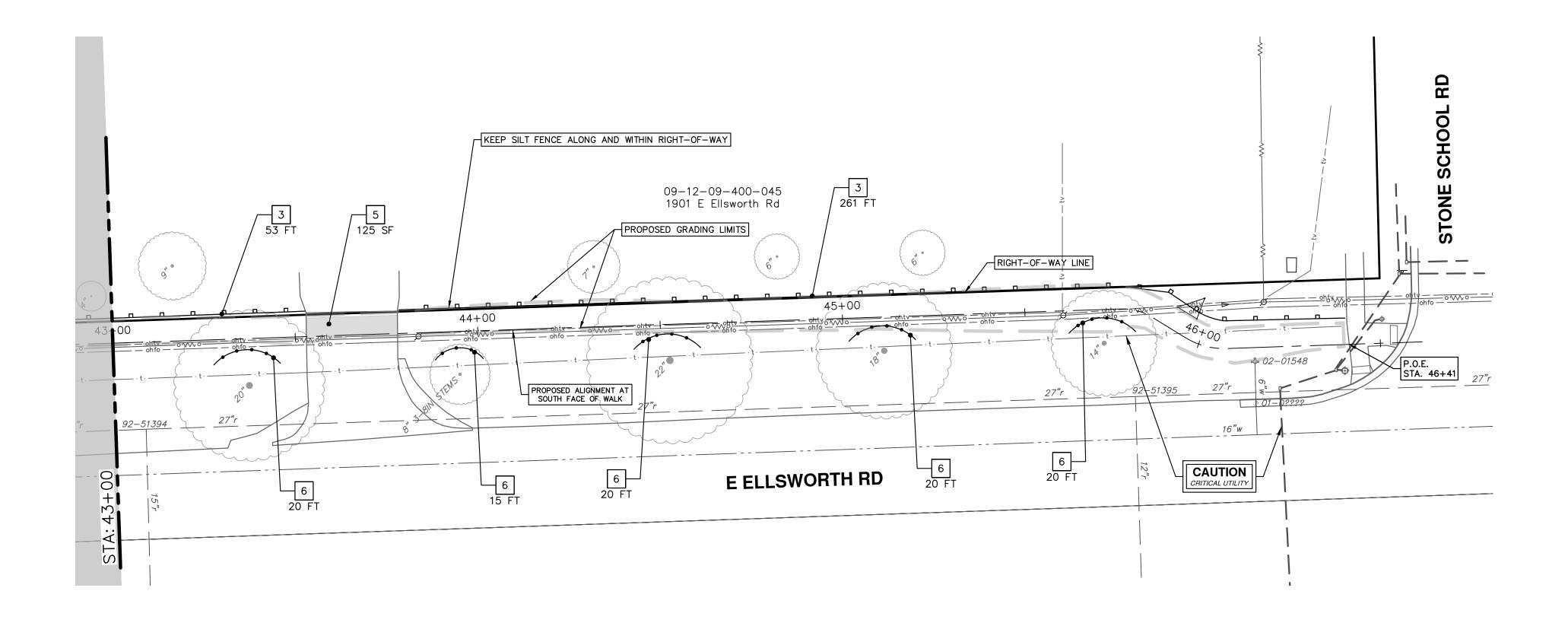


7 OF 23



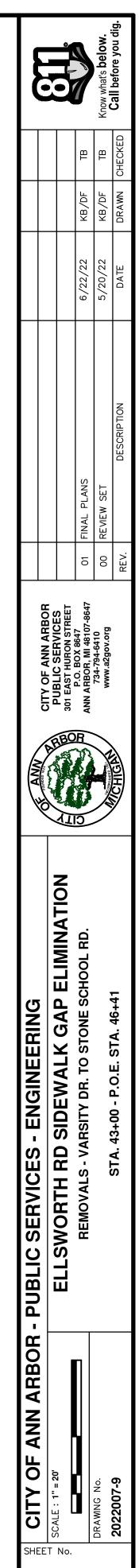
	REMOVAL KEY
KEY	DESCRIPTION
1	REMOVE CONCRETE CURB AND GUTTER – ANY THICKNESS*
2	EROSION CONTROL, INLET PROTECTION
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6	PROTECTIVE FENCING
* SAW	CUT FULL DEPTH AT REMOVAL LIMITS



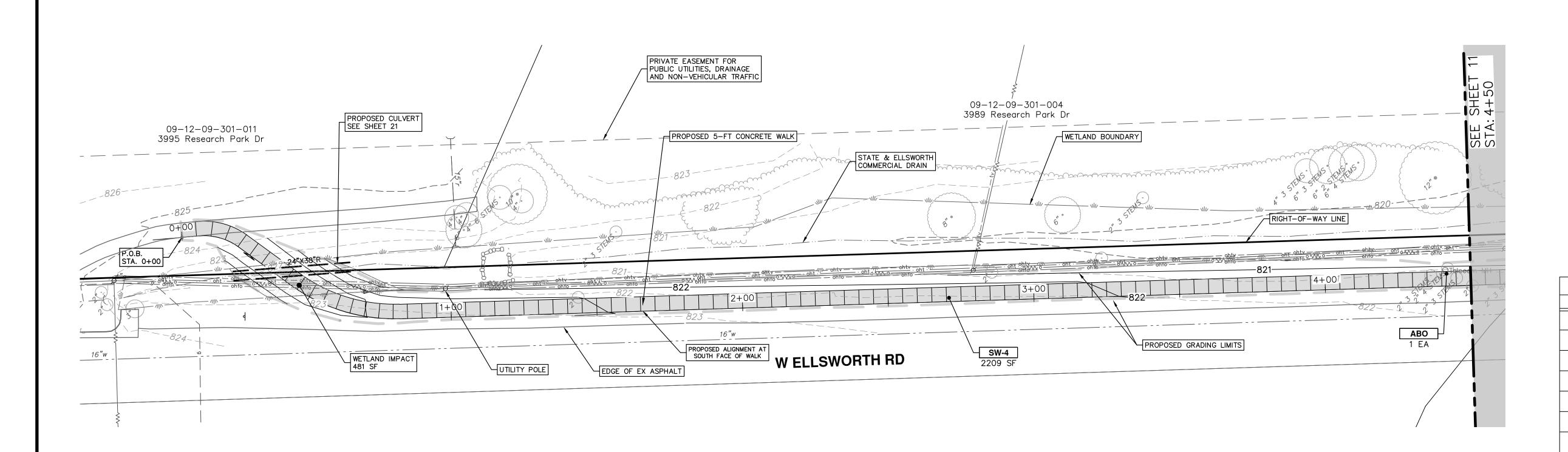


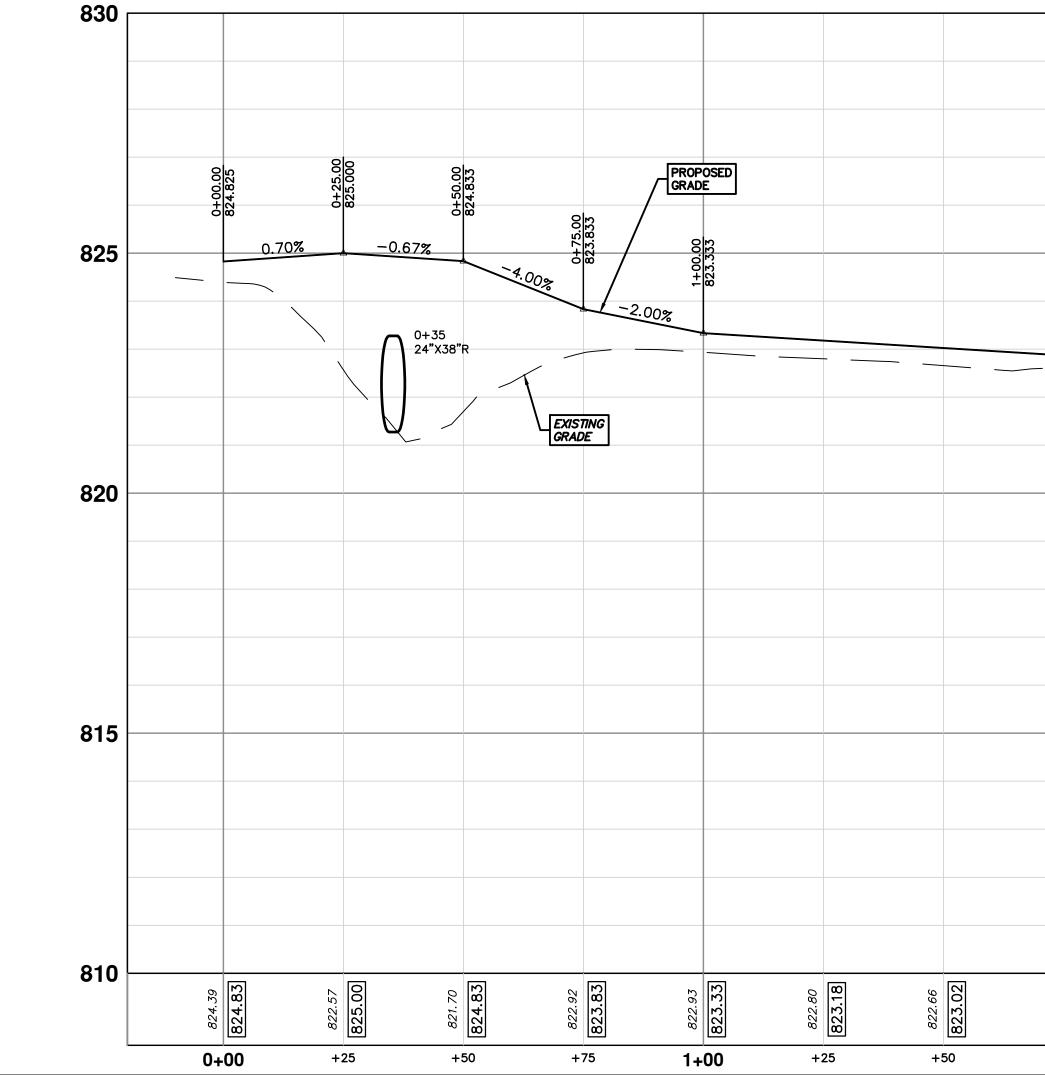


	REMOVAL KEY
KEY	DESCRIPTION
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2	EROSION CONTROL, INLET PROTECTION
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5	REMOVE CONCRETE SIDEWALK OR DRIVE – ANY THICKNESS
6	PROTECTIVE FENCING
* SAW	CUT FULL DEPTH AT REMOVAL LIMITS



9 OF 23

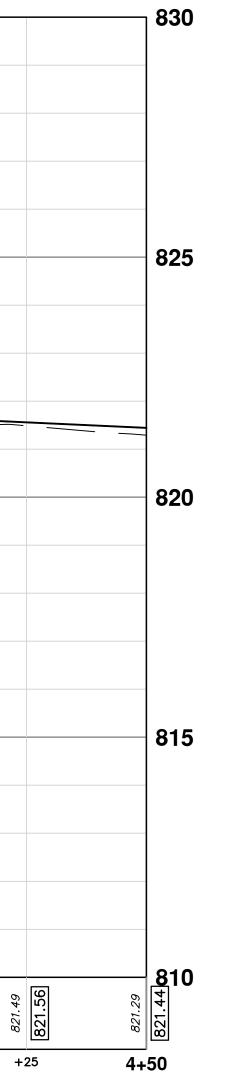


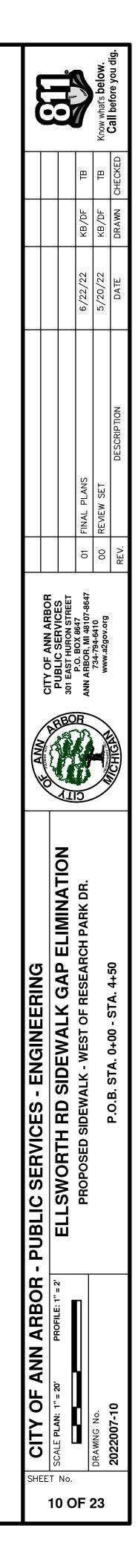


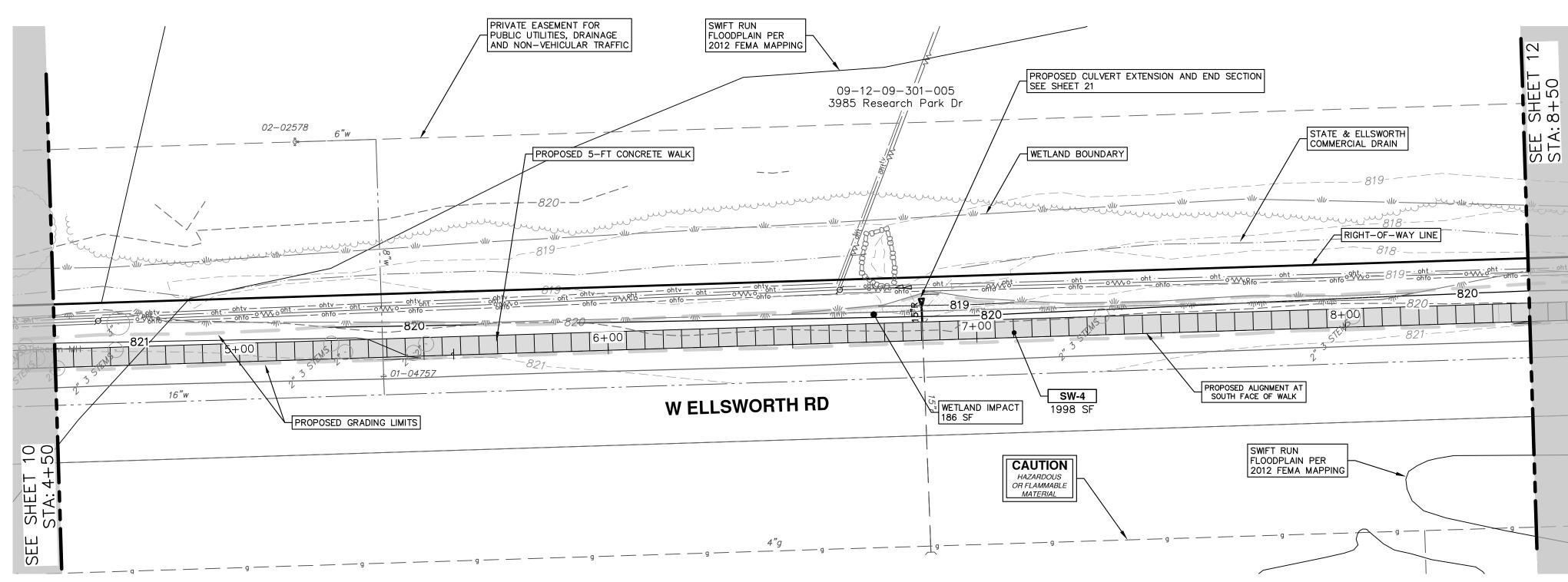
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	+	<sup>75</sup> <b>2</b> +	<b>+00</b> +:	25 +	50 +	<sup>75</sup> <b>3</b> +	<b>00</b> +:	25 +	50 +	<sup>75</sup> <b>4</b> +	- 00

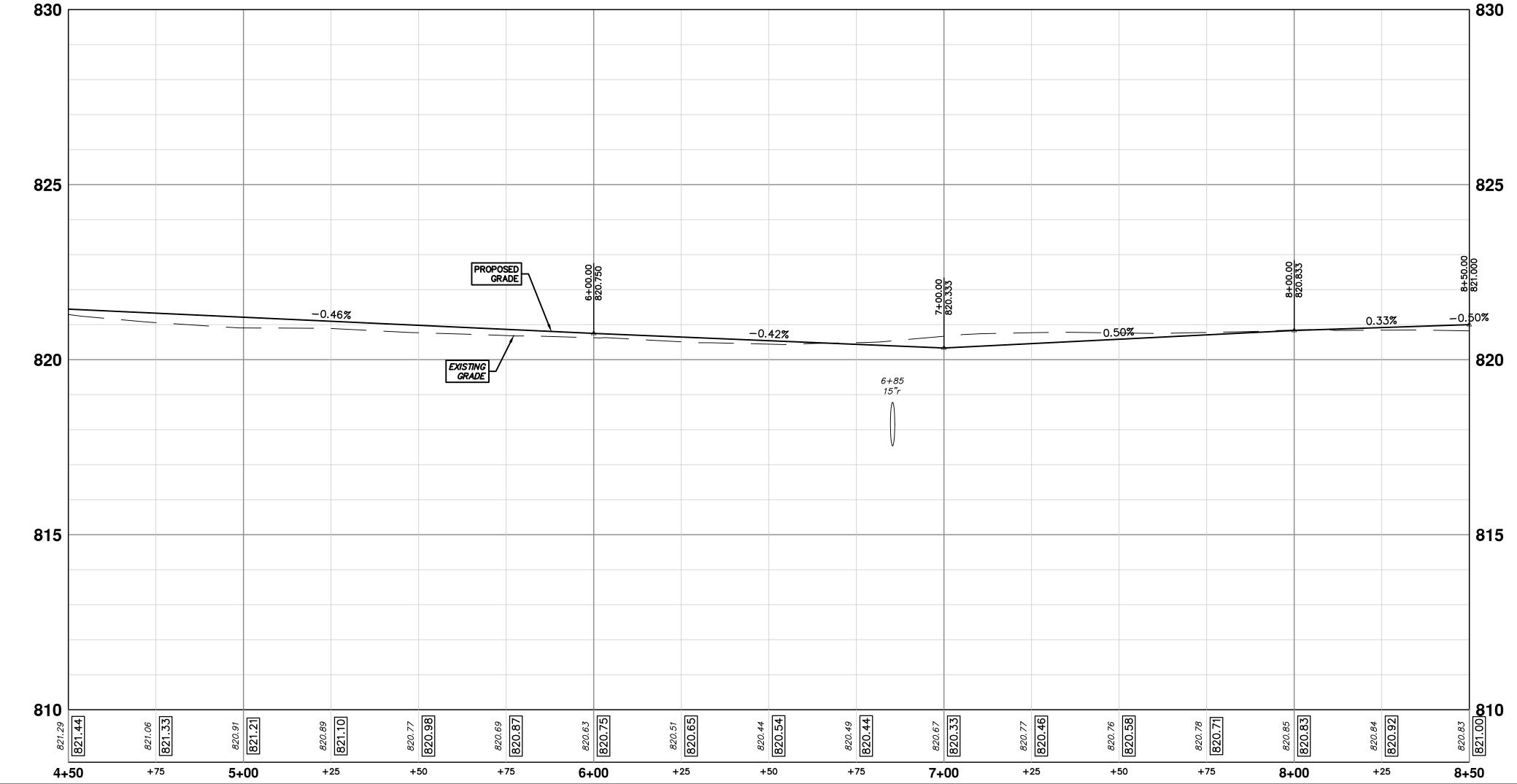


CON	ISTRUCTION KEY
KEY	DESCRIPTION
SW-4	4 INCH SIDEWALK OR RAMP
SW-6	6 INCH DRIVE APPROACH, RAMP, OR SIDEWALK
SW-8	8 INCH DRIVE APPROACH, OR SIDEWALK
CG	CURB AND GUTTER, CONC, AA DET SD-R-1, MODIFIED
DWS	DETECTABLE WARNING, CAST IN PLACE
ADJ	ADJUST STRUCTURE COVER
ABO	ADJUST BY OTHERS









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	 _	_	_



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CON	ISTRUCTION KEY
KEY	DESCRIPTION
SW-4	4 INCH SIDEWALK OR RAMP
SW-6	6 INCH DRIVE APPROACH, RAMP, OR SIDEWALK
SW-8	8 INCH DRIVE APPROACH, OR SIDEWALK
CG	CURB AND GUTTER, CONC, AA DET SD-R-1, MODIFIED
DWS	DETECTABLE WARNING, CAST IN PLACE
ADJ	ADJUST STRUCTURE COVER
ABO	ADJUST BY OTHERS

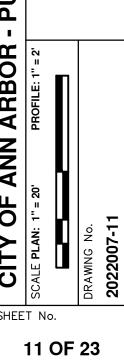
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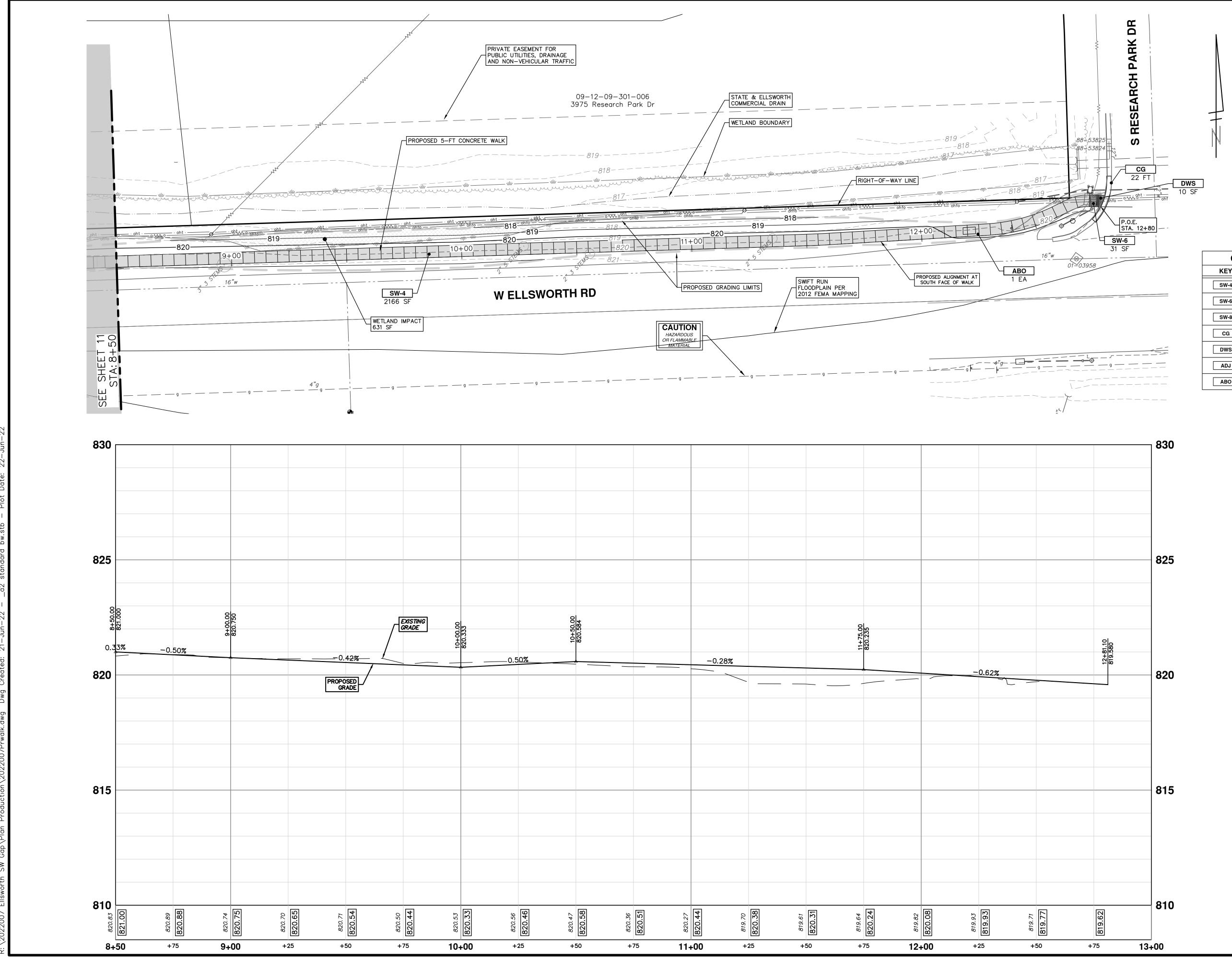
01     FINAL PLANS     6/22/22     KB/DF       00     REVIEW SET     5/20/22     KB/DF       REV.     DATE     DRAWN     CH				Ч
FINAL PLANS REVIEW SET DESCRIPTION		KB/DF	KB/DF	DRAWN
FINAL PLANS REVIEW SET		6/22/22	5/20/22	DATE
01 REV.		FINAL PLANS	REVIEW SET	DESCRIPTION
		01	00	REV.



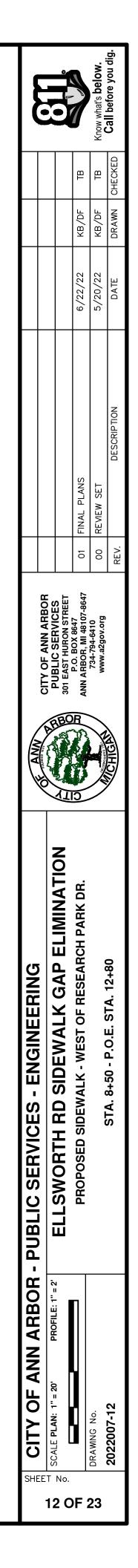


TION CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING Scale Plan: 1"= 20' PROFILE: 1"=2' ELLSWORTH RD SIDEWALK GAP ELIMINA PROPOSED SIDEWALK - WEST OF RESEARCH PARK DI 8+50 . 4+50 - STA. STA.

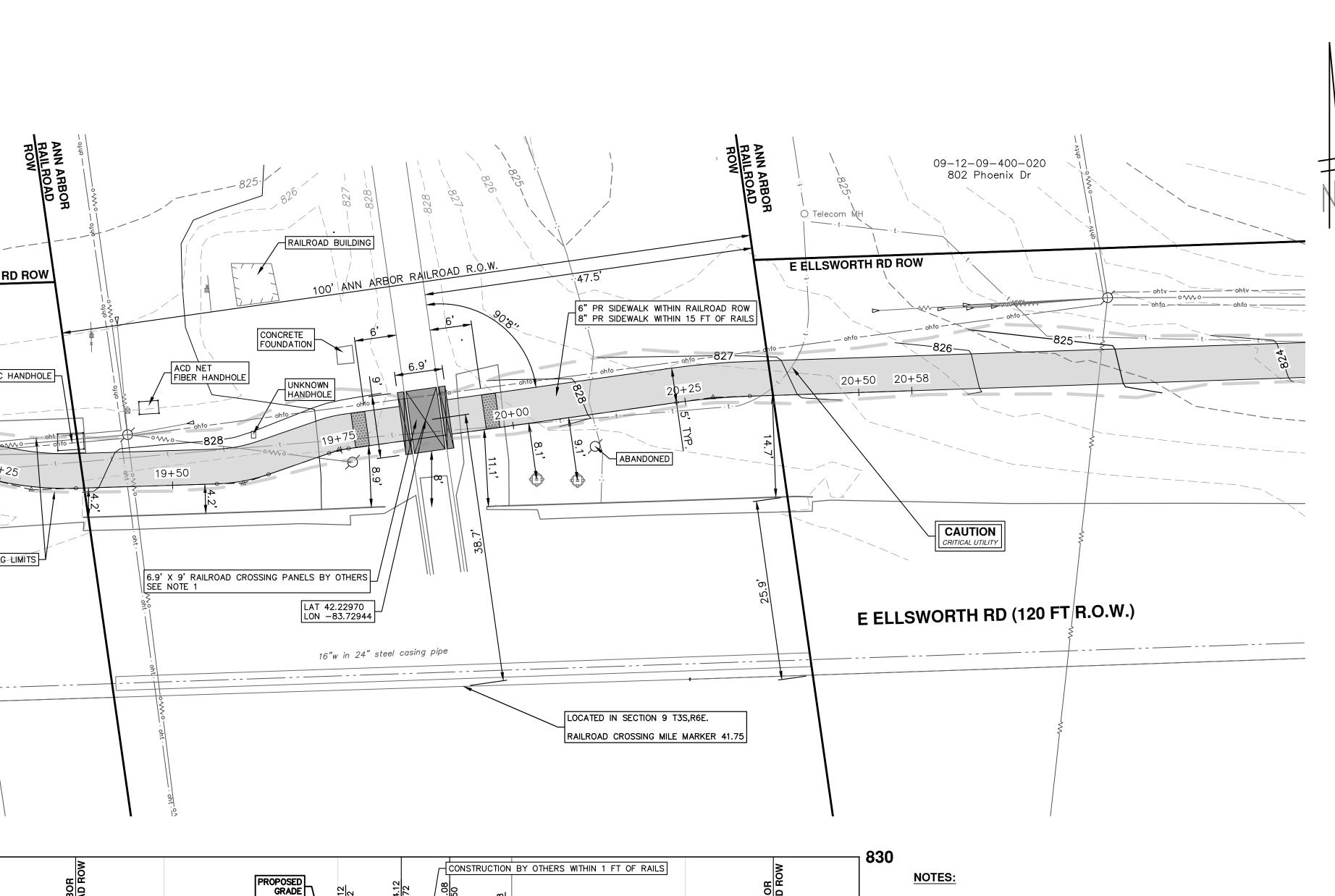


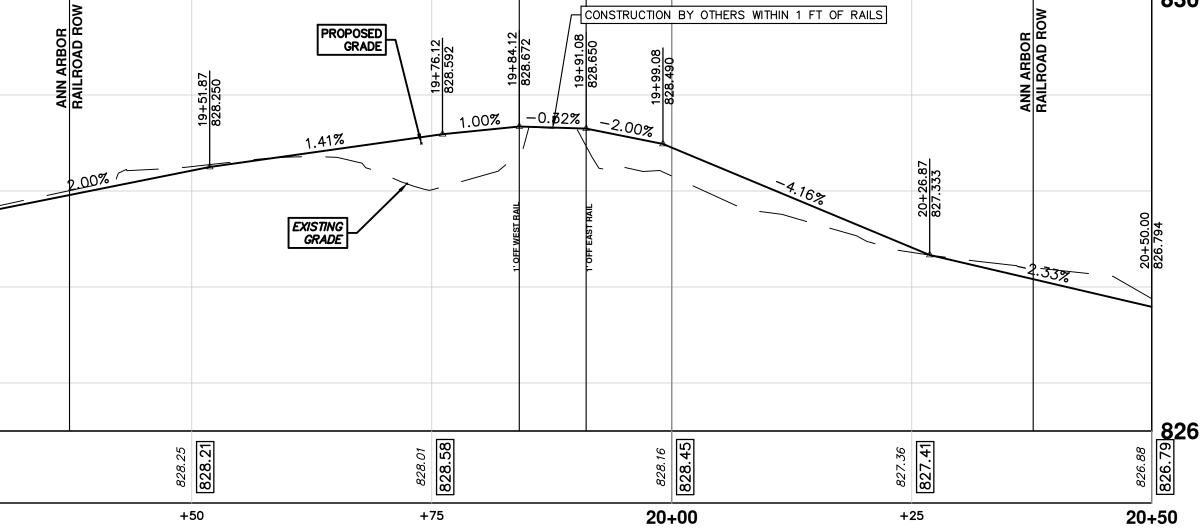


CON	ISTRUCTION KEY
KEY	DESCRIPTION
SW-4	4 INCH SIDEWALK OR RAMP
SW-6	6 INCH DRIVE APPROACH, RAMP, OR SIDEWALK
SW-8	8 INCH DRIVE APPROACH, OR SIDEWALK
CG	CURB AND GUTTER, CONC, AA DET SD-R-1, MODIFIED
DWS	DETECTABLE WARNING, CAST IN PLACE
ADJ	ADJUST STRUCTURE COVER
ABO	ADJUST BY OTHERS

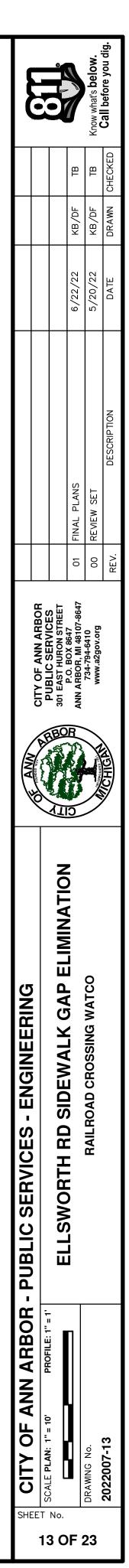


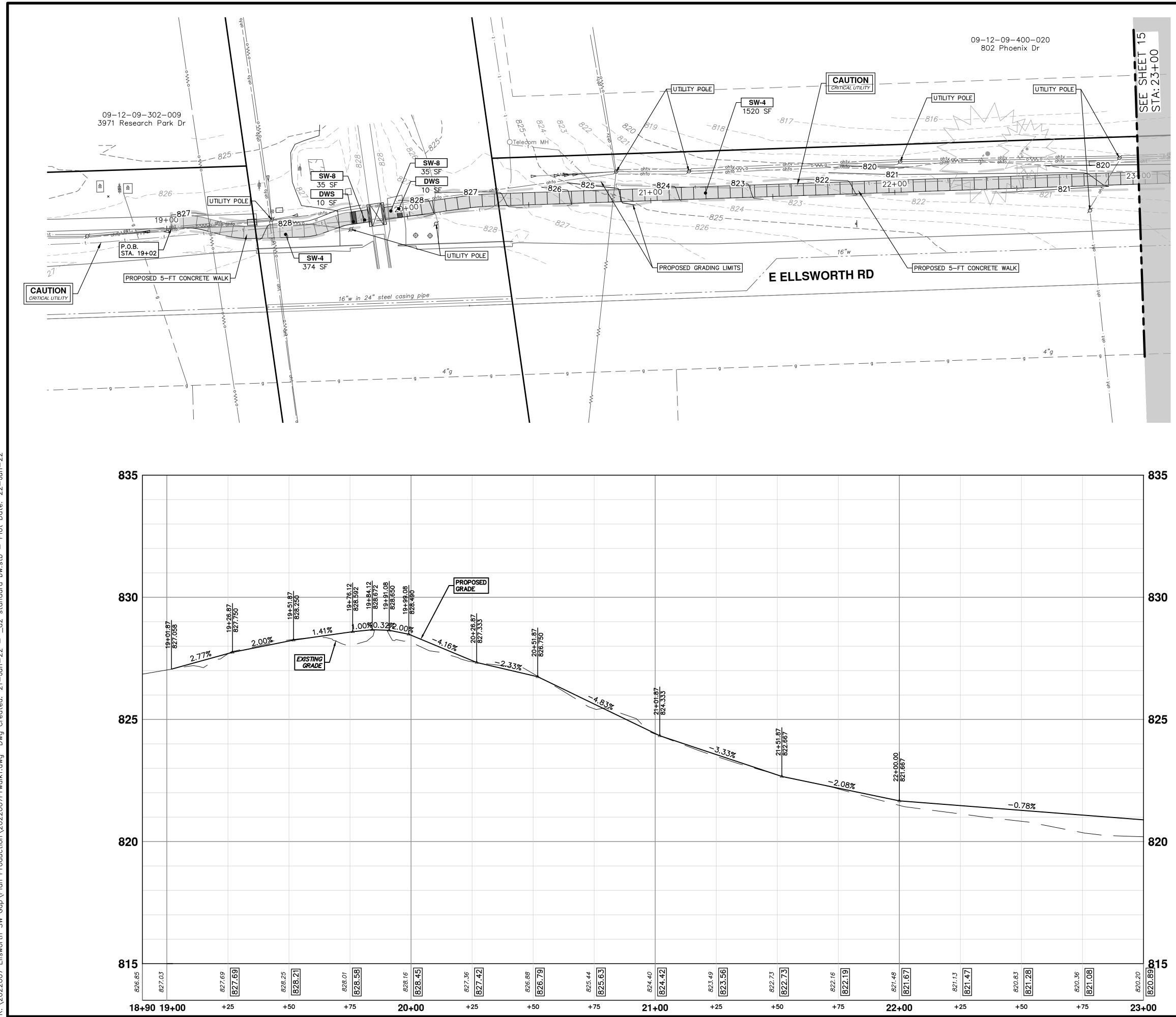
09—12—09—302—009 3971 Research Park Dr Juliunininininini \_\_\_\_ W ELLSWORTH RD ROW ⊠ 35 LF EX SIDEWALK TO BE REMOVED KMC HANDHOLE 19+00 18+82 19+25 — · oht · —— · oht · PROPOSED GRADING-LIMITS W ELLSWORTH RD (120 FT R.O.W.) 830 <u>19+26.87</u> 827.750 826 827.69 **827.70** 19+00 +25





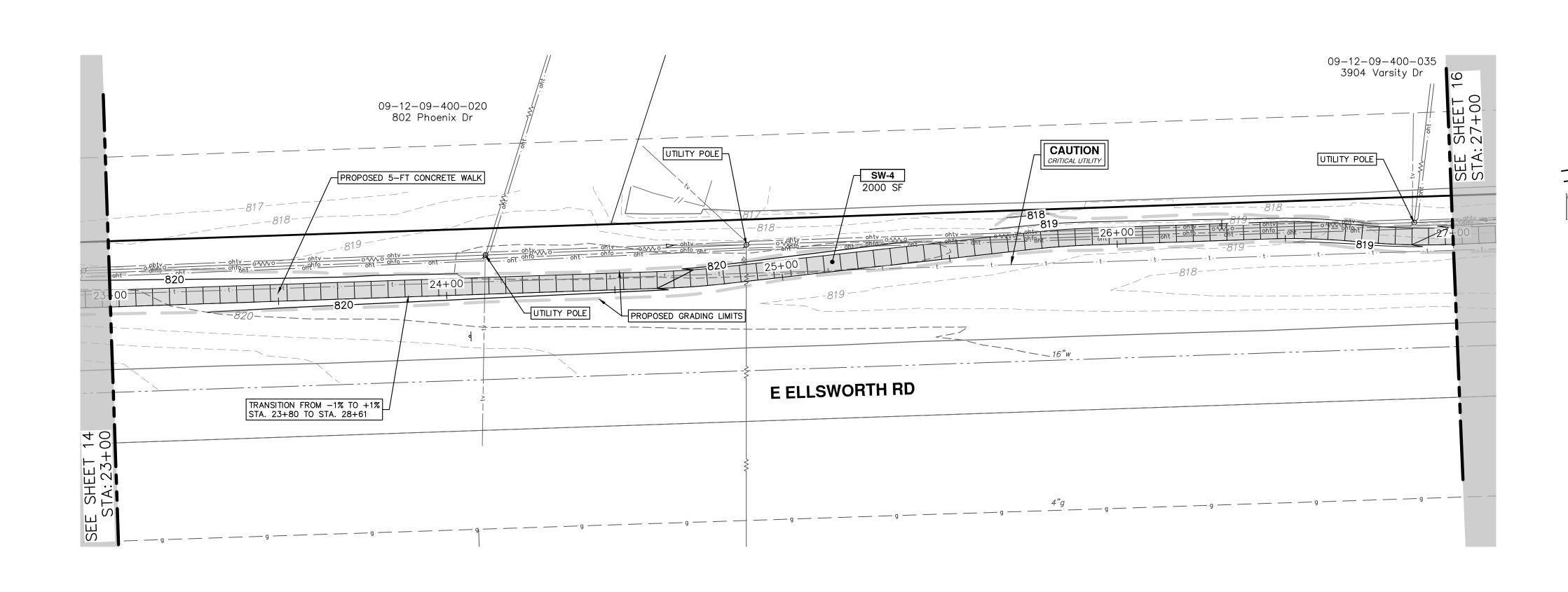
1: THE ANN ARBOR RAILROAD (AARR) WILL PROVIDE AND PLACE THE CROSSING MATERIAL OVER THE RAILROAD TRACKS. THE AARR SHALL ALSO PROVIDE AND PLACE A PEDESTAL MOUNTED PEDESTRIAN SIGNALS AND RR CROSSING SIGNS (W10–1) AT THE CROSSING FOR THE PROPOSED SIDEWALK. THE CONTRACTOR SHALL COORDINATE ALL SIDEWALK CONSTRUCTION WITH THE RAILROAD SO THAT THE WORK IS PERFORMED IN A LOGICAL MANNER WITHOUT DISRUPTION TO THE AARR SERVICE, SIGNAL WIRES, OR ANY OTHER RELATED FEATURE AT OR NEAR THE SITE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR IS TO ACCOUNT FOR THE AARR'S WORK WITH RESPECT TO THE INSTALLATION OF THE CROSSING MATERIAL, THE PEDESTAL MOUNTED PEDESTRIAN SIGNALS, AND SIGNAGE SO THAT THEIR CONSTRUCTION OPERATIONS ARE NOT DELAYED. PAYMENT FOR COORDINATION WITH THE AARR INCLUDED IN "MACHINE GRADING, MODIFIED, ELLSWORTH, SIDEWALK".

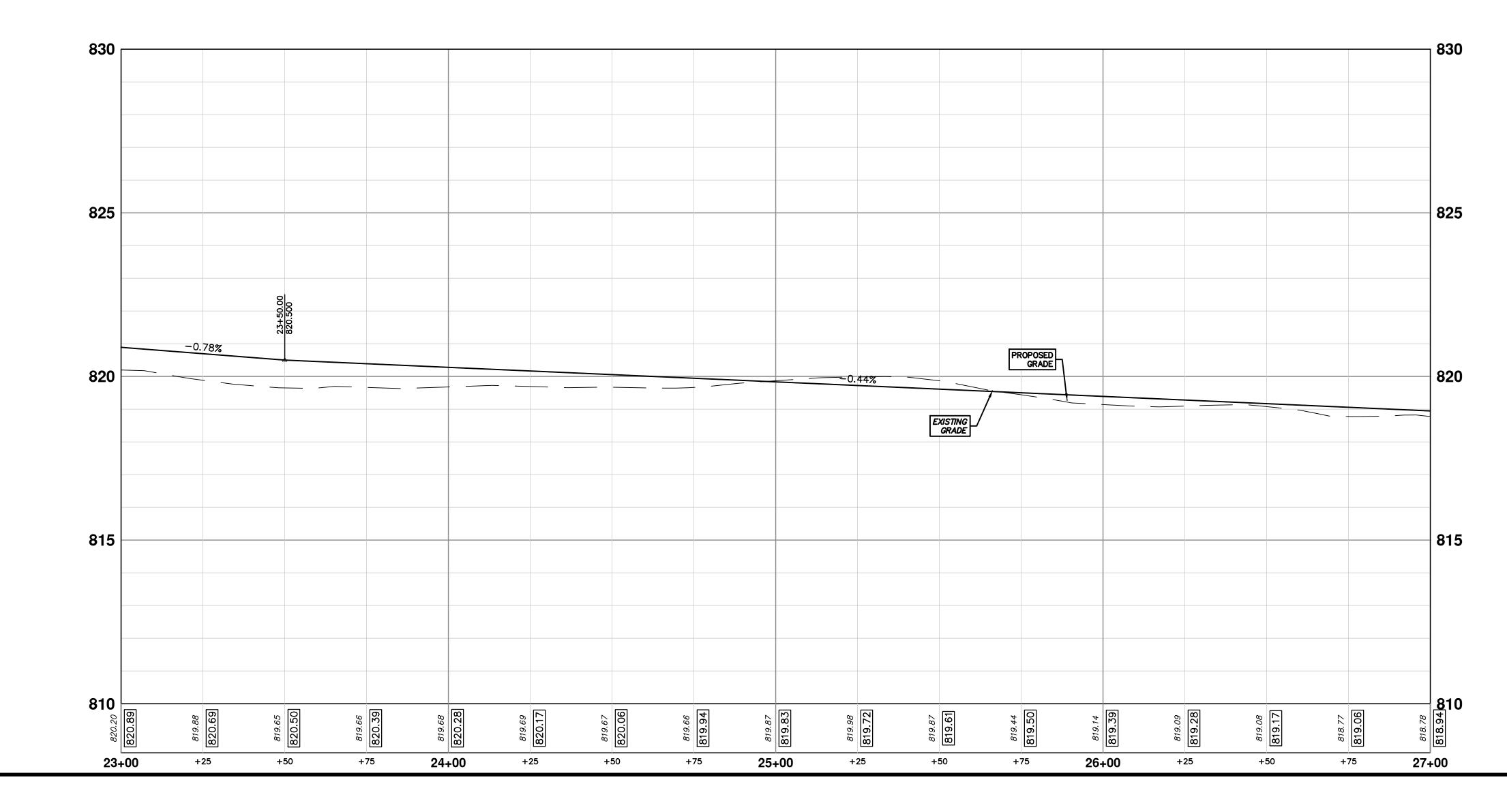




CON	ISTRUCTION KEY
KEY	DESCRIPTION
SW-4	4 INCH SIDEWALK OR RAMP
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SW-8	8 INCH DRIVE APPROACH, OR SIDEWALK
CG	CURB AND GUTTER, CONC, AA DET SD-R-1, MODIFIED
DWS	DETECTABLE WARNING, CAST IN PLACE
ADJ	ADJUST STRUCTURE COVER
АВО	ADJUST BY OTHERS

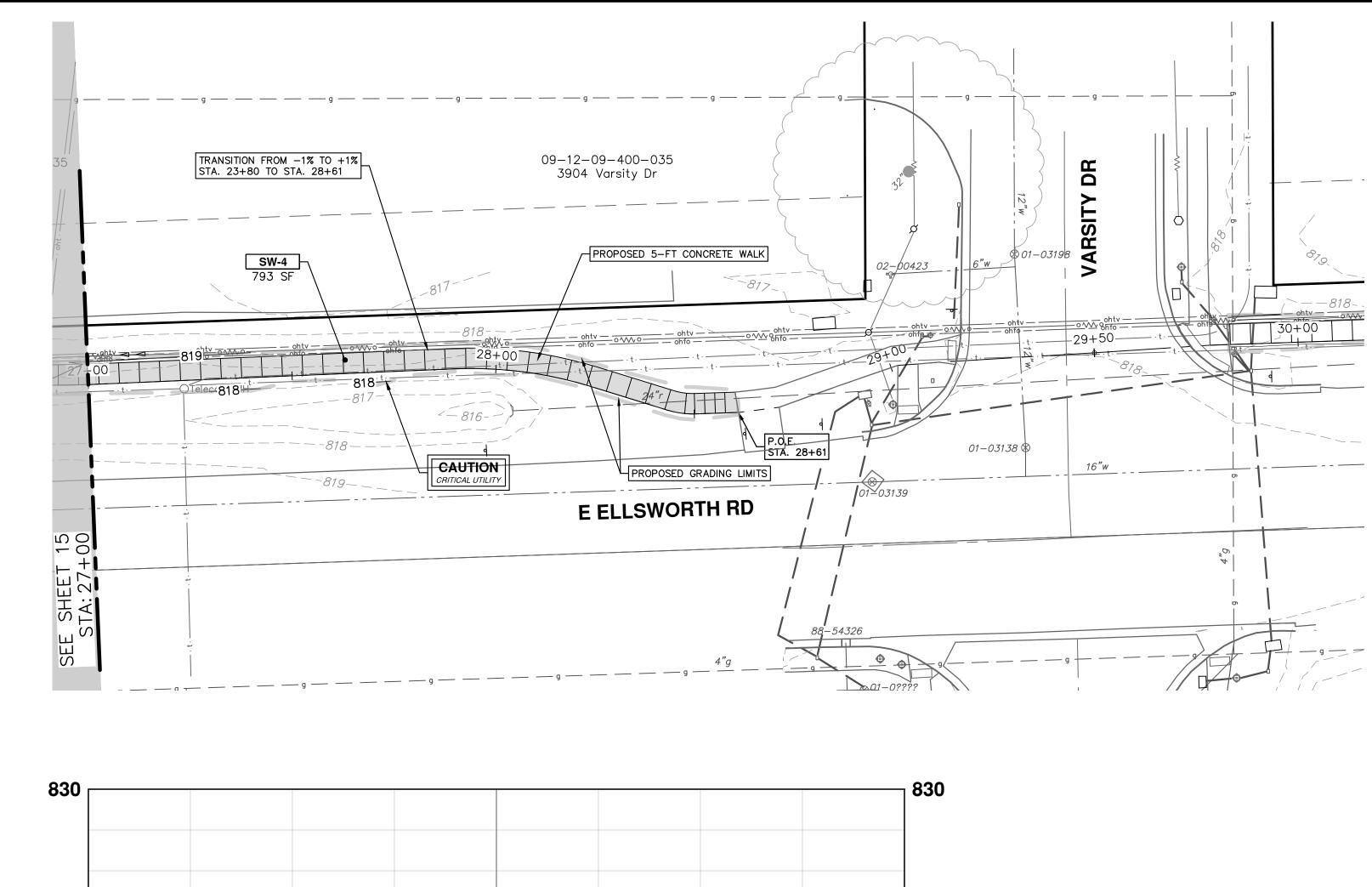
			TB	TB Know what's below.	DRAWN CHECKED Call before you dig.
			KB/DF	KB/DF	DRAWN
			6/22/22	5/20/22	DATE
			01 FINAL PLANS	REVIEW SET	DESCRIPTION
			6	00	REV.
	PUBLIC SERVICES	301 EAST HURON STREET	P.O. BOX 8647 ANN ARBOR, MI 48107-8647		
- PUBLIC SERVICES - ENGINEERING			PROPOSED SIDEWALK - EAST OF RAIL ROAD		P.O.B. SIA. 19+02 - SIA. 23+00
CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING			PROPOSED SIDEWALK - EAST OF RAIL ROAD	DRAWING No.	2022007-14 P.O.B. SIA. 19+02 - SIA. 23+00

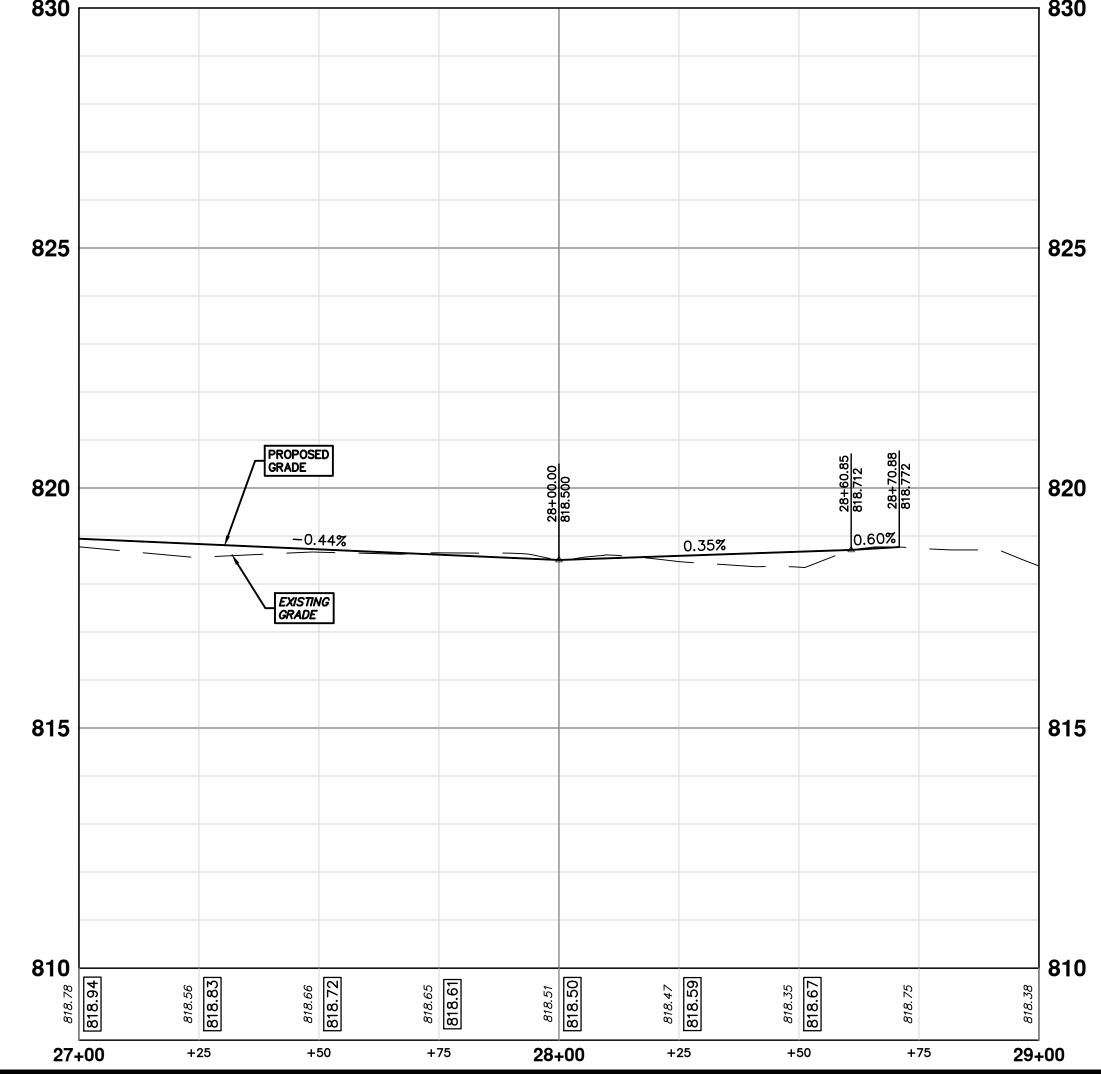


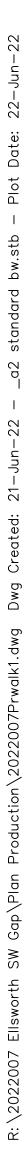


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DWS	DETECTABLE WARNING, CAST IN PLACE
ADJ	ADJUST STRUCTURE COVER
ABO	ADJUST BY OTHERS

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	CITY OF ANN ARBOR						
SCALE PLAN: 1" = 20' PROFILE: 1" = 2'							
	AD AD ANN ARBOR. MI 48107-8647	01 FINAL PLANS	LANS	6/22/22	KB/DF	Щ	
		00 REVIEW SET	SET	5/20/22	KB/DF	Щ	Know what's below.
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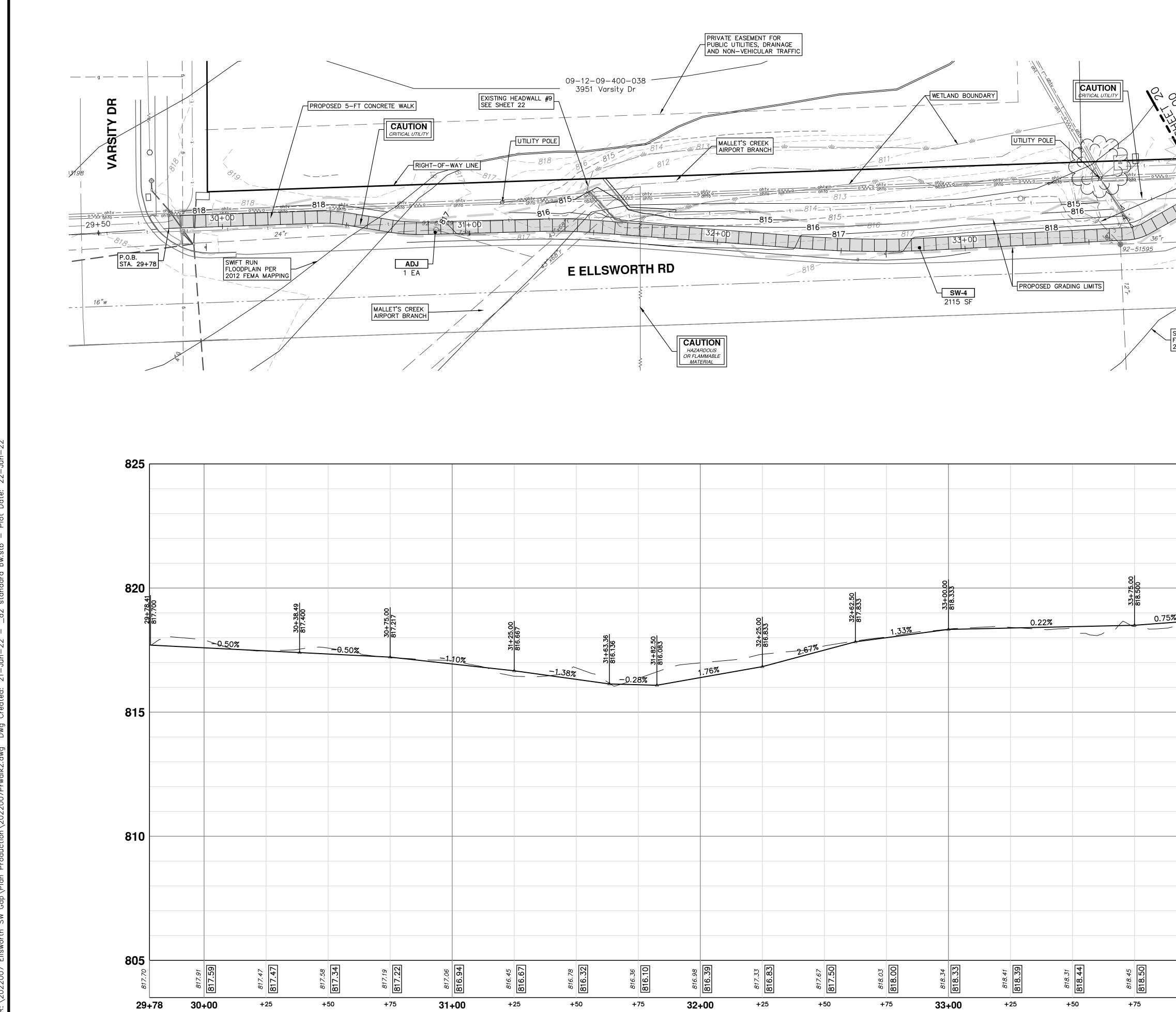




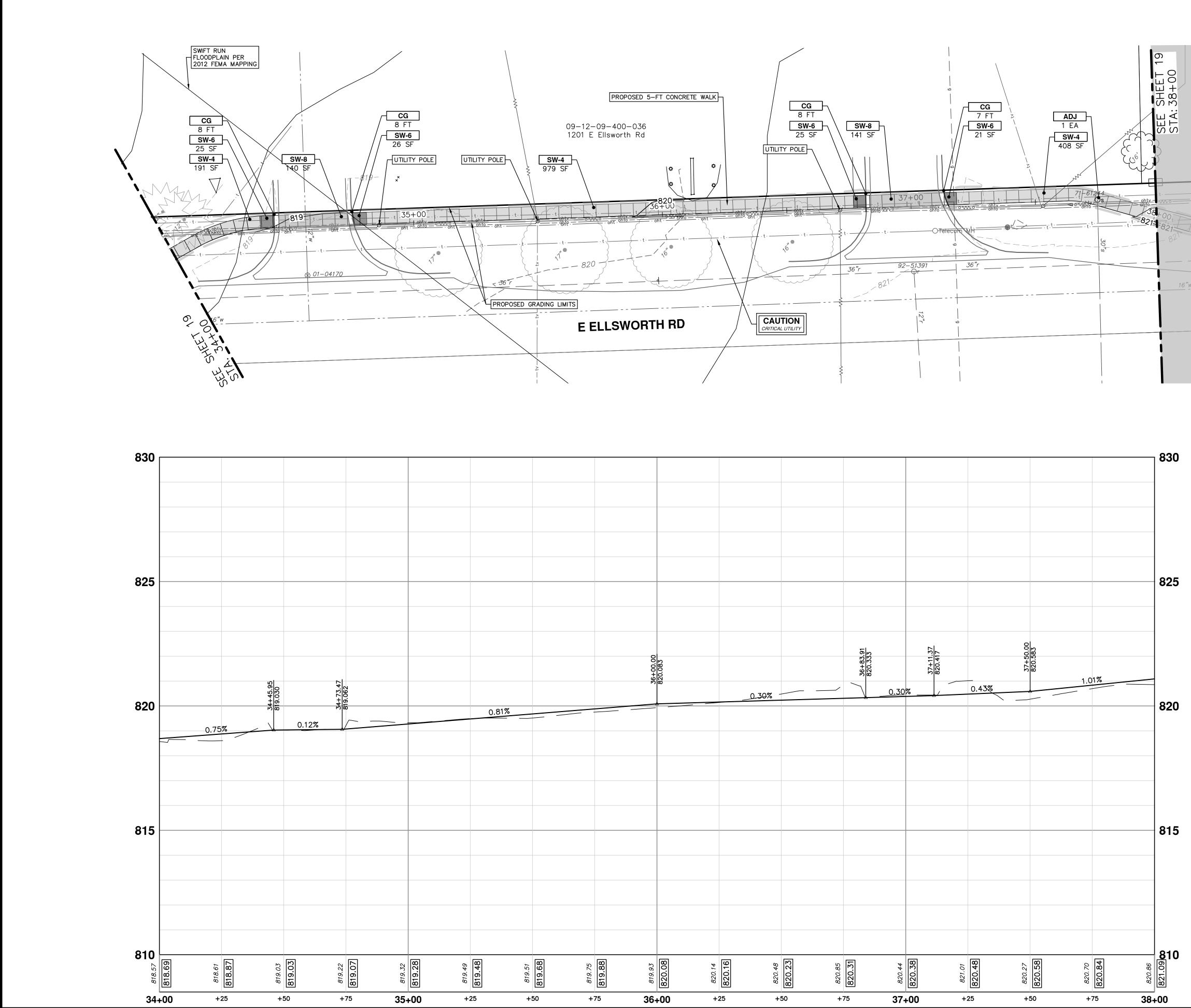


CONSTRUCTION KEY		
KEY	DESCRIPTION	
SW-4	4 INCH SIDEWALK OR RAMP	
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SW-8	8 INCH DRIVE APPROACH, OR SIDEWALK	
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DWS	DETECTABLE WARNING, CAST IN PLACE	
ADJ	ADJUST STRUCTURE COVER	
ABO	ADJUST BY OTHERS	

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	E CITY OF ANN ARB	NN ARBOR - PUBLIC SERVICES - ENGINEERING	ANN						
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16	$\neg \downarrow [$ SCALF PLAN: 1" = 20' PROFILE: 1" = 2'								X
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F		PROPOSED SIDEWALK - EAST OF RAIL ROAD	O 190 190 190 190 190 190 190 190 190 190	0	01 FINAL PLANS	6/22/22	KB/DF	Æ	
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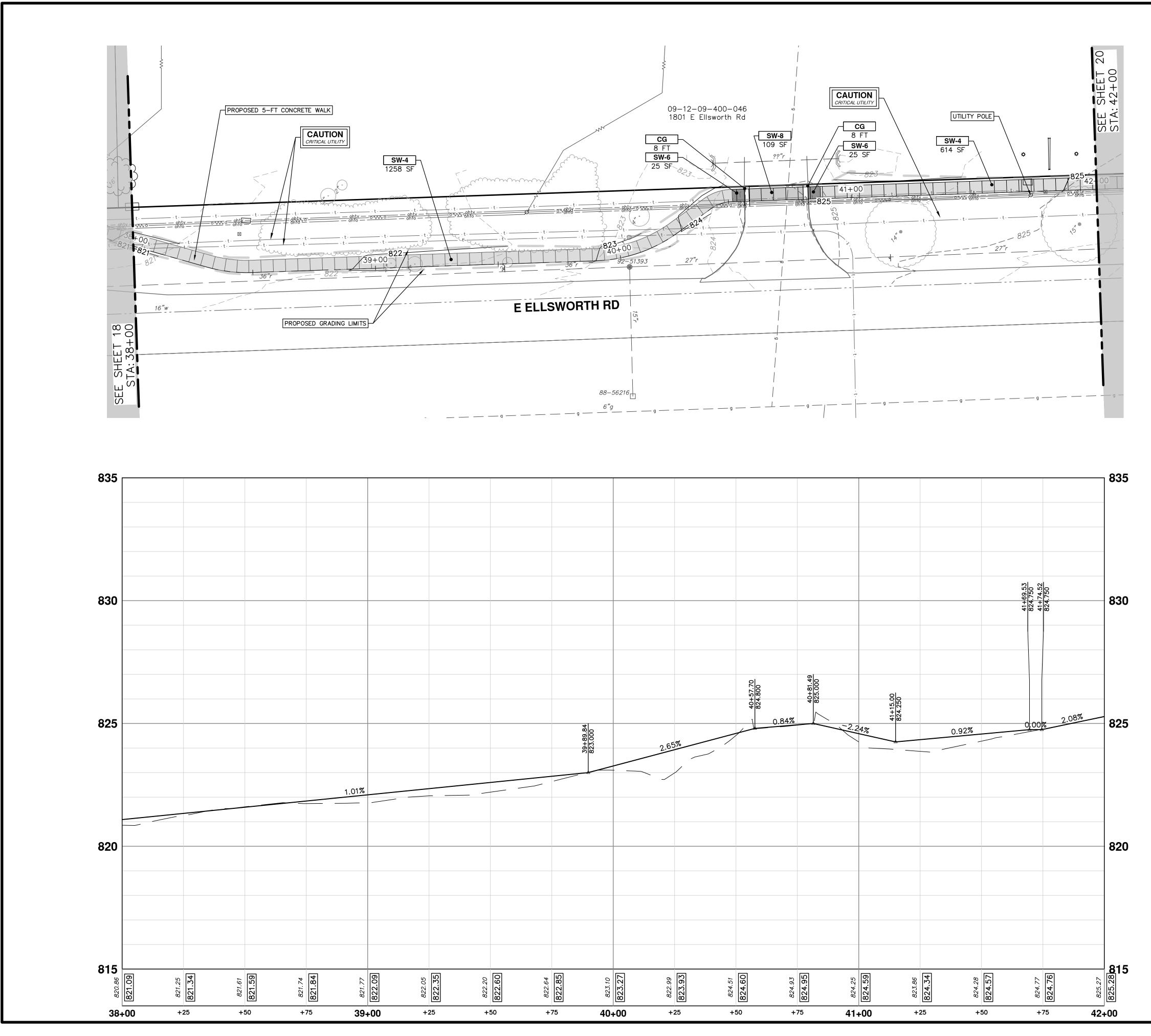


COORDINATE 36 SEE SHEET 22	" STORM PIPE REMOVALS	6/22/22KB/DFTB5/20/22KB/DFTB5/20/22KB/DFTBDATEDRAWNCHECKED
SWFT RUN FLOODPLAIN PER 2012 FEMA MAPPING		01 FINAL PLANS 00 REVIEW SET REV. DESCRIPTION
825	CONSTRUCTION KEYKEYDESCRIPTIONSW-44 INCH SIDEWALK OR RAMPSW-66 INCH DRIVE APPROACH, RAMP, OR SIDEWALKSW-68 INCH DRIVE APPROACH, OR SIDEWALKSW-88 INCH DRIVE APPROACH, OR SIDEWALKCGCURB AND GUTTER, CONC, AA DET SD-R-1, MODIFIEDDWSDETECTABLE WARNING, CAST IN PLACEADJADJUST STRUCTURE COVERABOADJUST BY OTHERS	CITY OF ANN ARBOR DELIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 734-794-6410 WWW.42gov.org
820 <u>*</u> 815		PUBLIC SERVICES - ENGINEERING ELLSWORTH RD SIDEWALK GAP ELIMINATION PROPOSED SIDEWALK - VARSITY DR. TO STONE SCHOOL RD. P.O.B. STA. 29+78 - STA. 34+00
810		PROFILE: 1" = 2"
805 818.69 818.00		CTY OF ANN SCALE PLAN: 1"= 20' DRAWING NO. 2022007-17



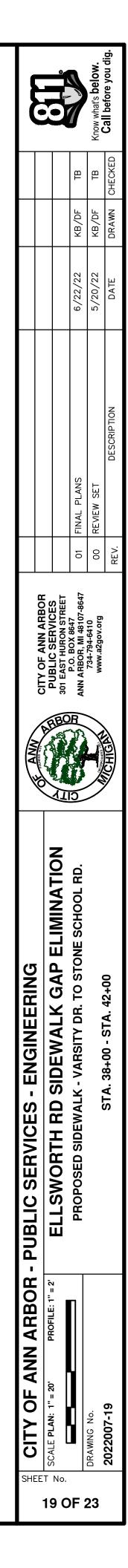
CONSTRUCTION KEY		
KEY	DESCRIPTION	
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DWS	DETECTABLE WARNING, CAST IN PLACE	
ADJ	ADJUST STRUCTURE COVER	
АВО	ADJUST BY OTHERS	

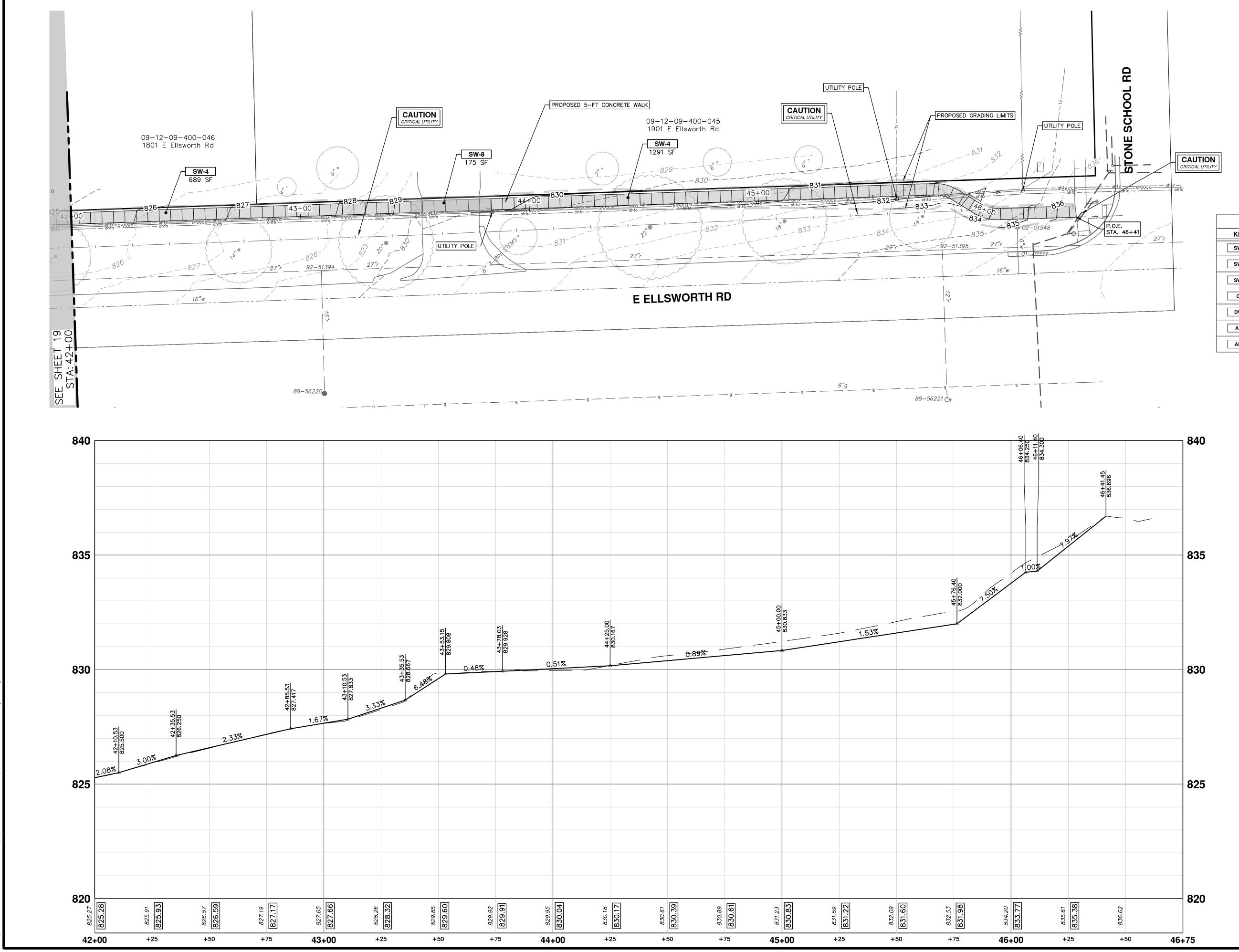
FINAL PLANS REVIEW SET 58 CITY OF ANN ARBOR PUBLIC SERVICES 301 EAST HURON STREET P.O. BOX 8647 734-794-6410 TION RD. CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING Scale Plan: 1"= 20' PROFILE: 1"=2' ELLSWORTH RD SIDEWALK GAP ELIMINA PROPOSED SIDEWALK - VARSITY DR. TO STONE SCHOOL 38+00 STA. 34+00 - STA. DRAWING No. 2022007-18 18 OF 23



)22007 Ellsworth SW Gap\Plan Production\2022007Prwalk3.dwg Dwg Created: 21—Jun—22 — \_a2 standard bw.stb — Plot Date: 22—Jun—3

CONSTRUCTION KEY		
KEY	DESCRIPTION	
SW-4	4 INCH SIDEWALK OR RAMP	
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SW-8	8 INCH DRIVE APPROACH, OR SIDEWALK	
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DWS	DETECTABLE WARNING, CAST IN PLACE	
ADJ	ADJUST STRUCTURE COVER	
АВО	ADJUST BY OTHERS	





7 Ellsworth SW Gap\Plan Production\2022007Prwalk3.dwg Dwg Created: 21—Jun—22 — \_a2 standard bw.stb — Plot Date: 22—,

CONSTRUCTION KEY		
KEY	DESCRIPTION	
SW-4	4 INCH SIDEWALK OR RAMP	
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DWS	DETECTABLE WARNING, CAST IN PLACE	
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