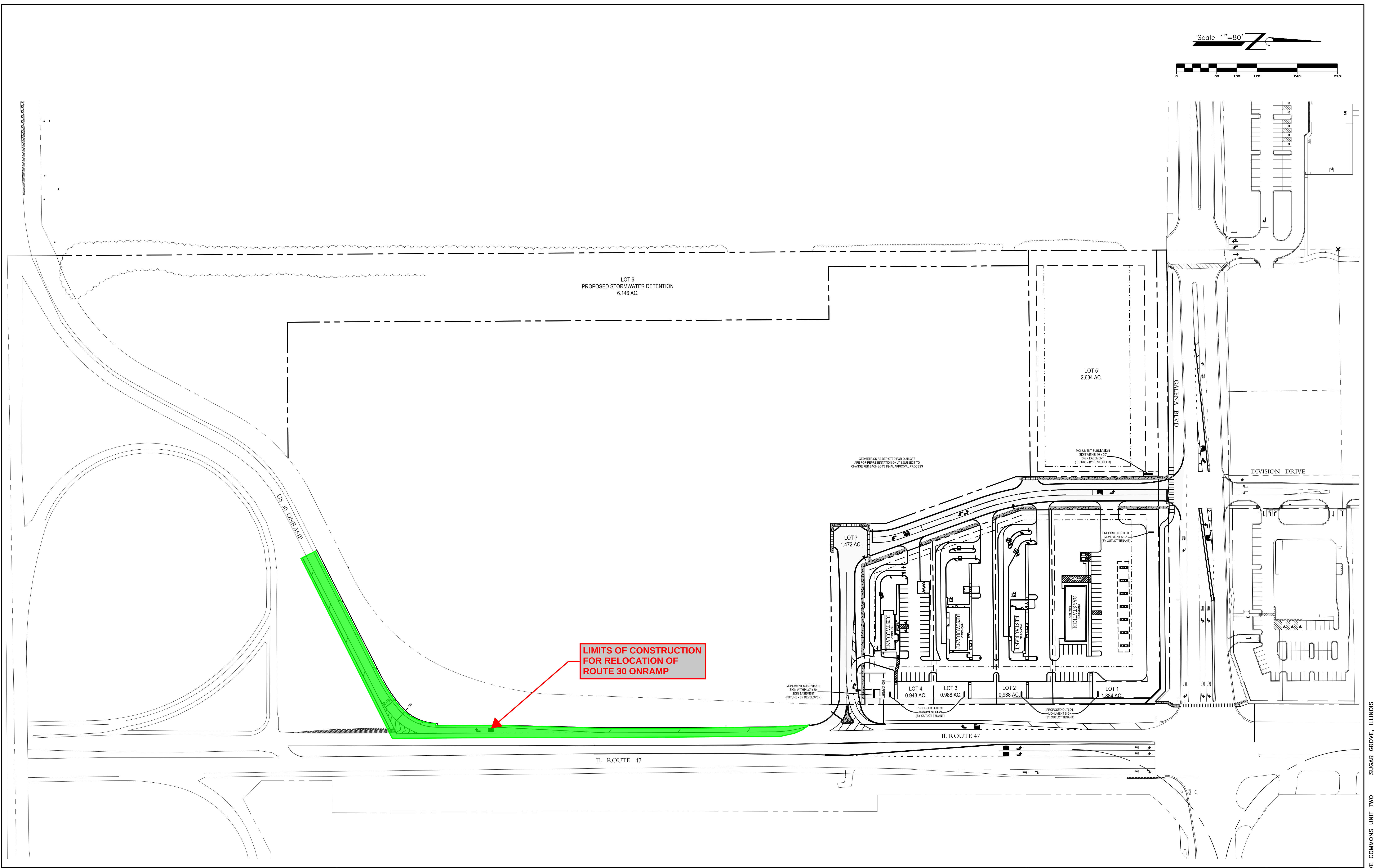
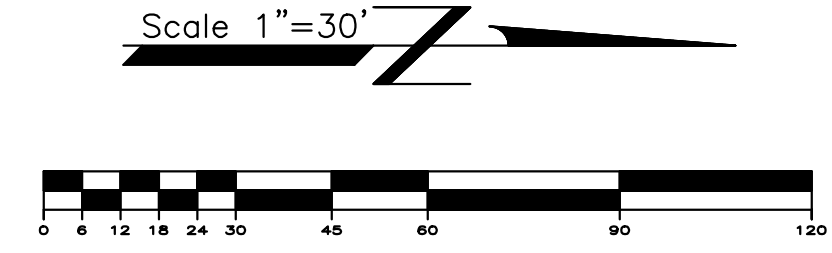
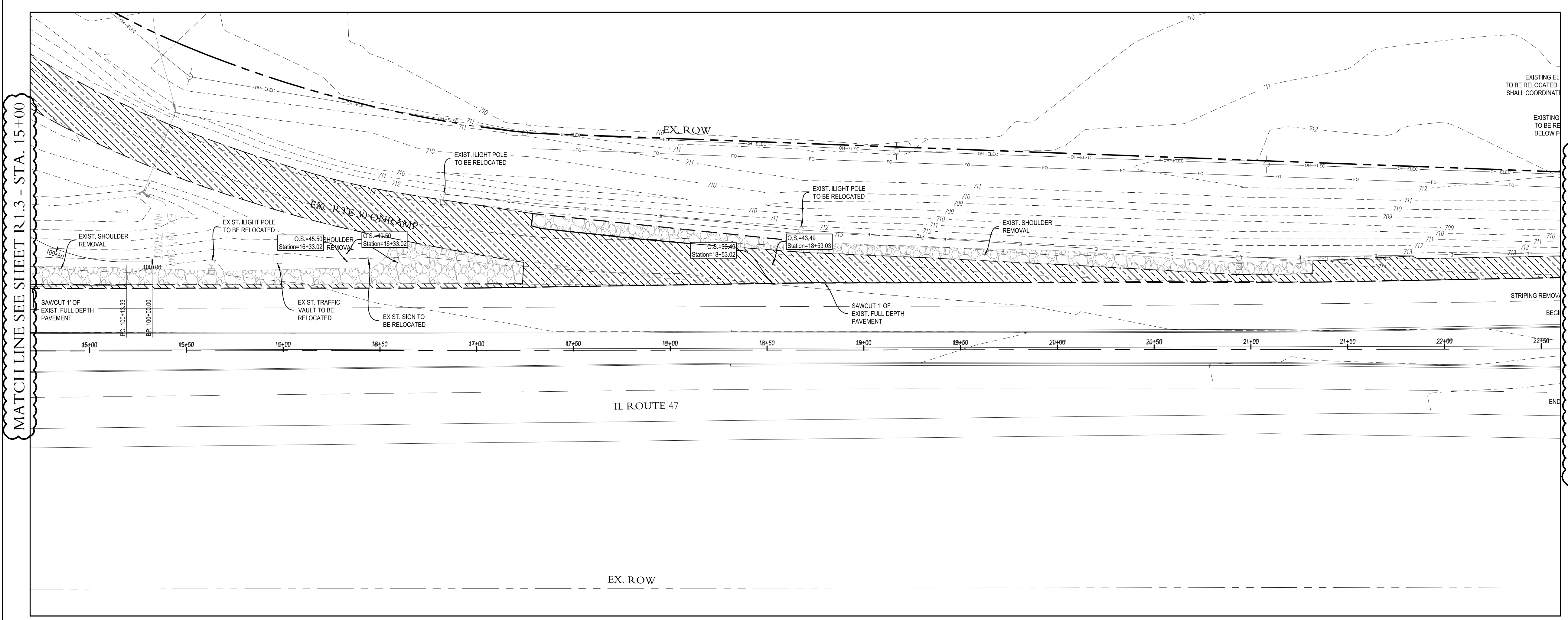


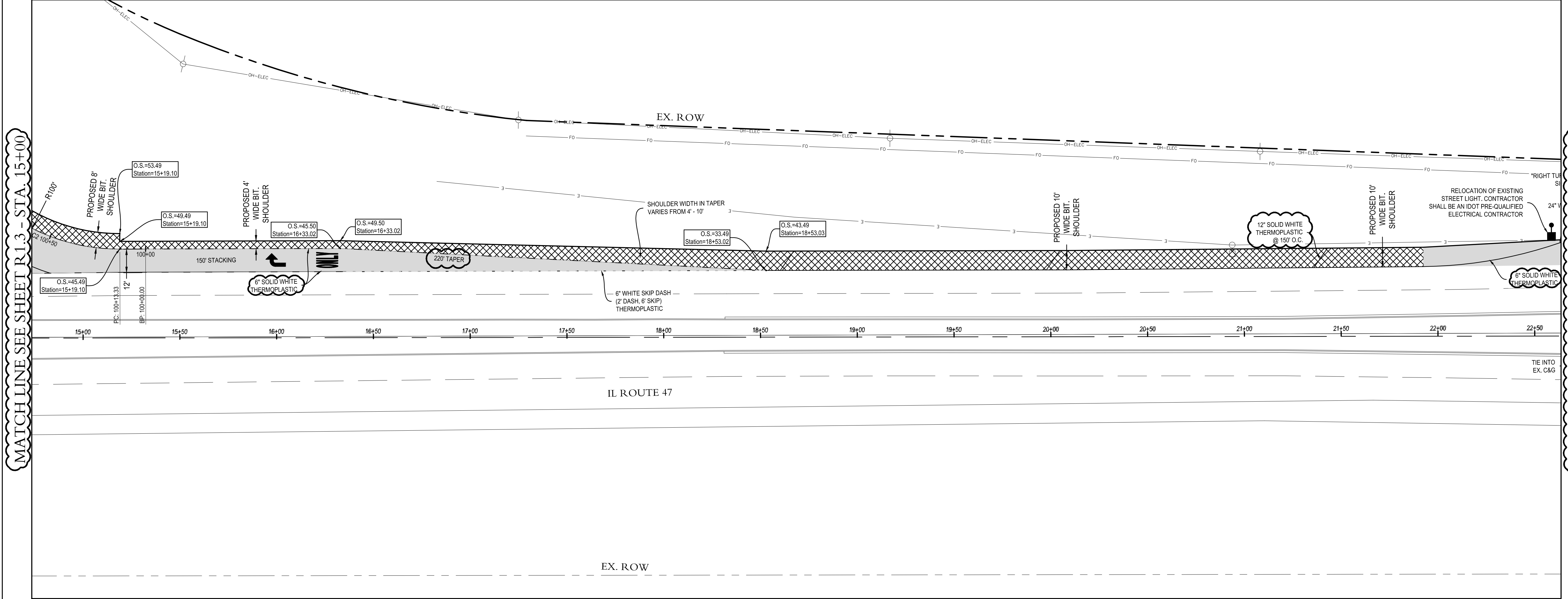


C1.0

SHEET NO.



LEGEND	
PAVEMENT REMOVAL - FULL DEPTH	
PROPOSED FULL DEPTH BIT. PAVEMENT (PER DETAIL 7/R7.2)	
PROPOSED FULL DEPTH BIT. SHOULDER (PER DETAIL 7/R7.2)	



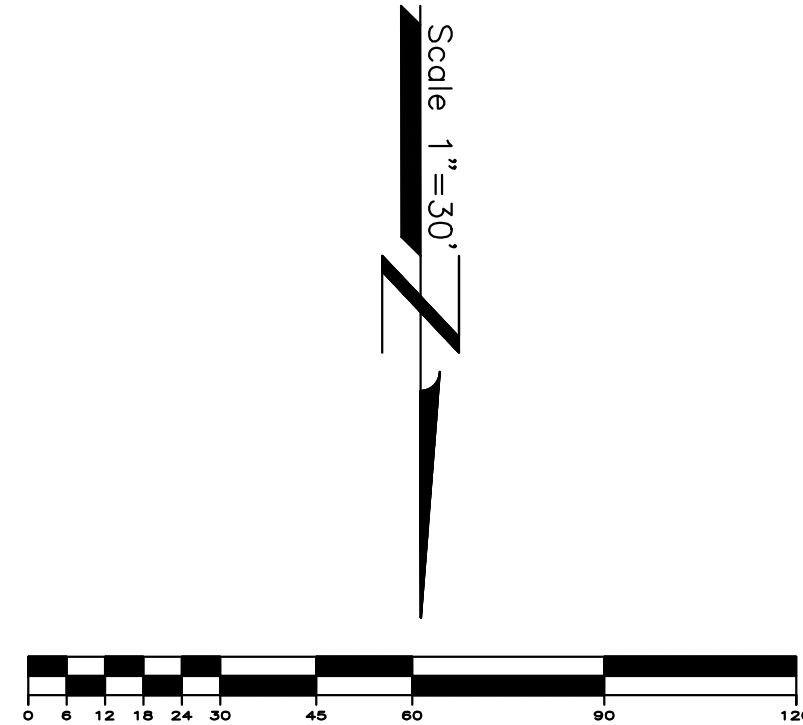
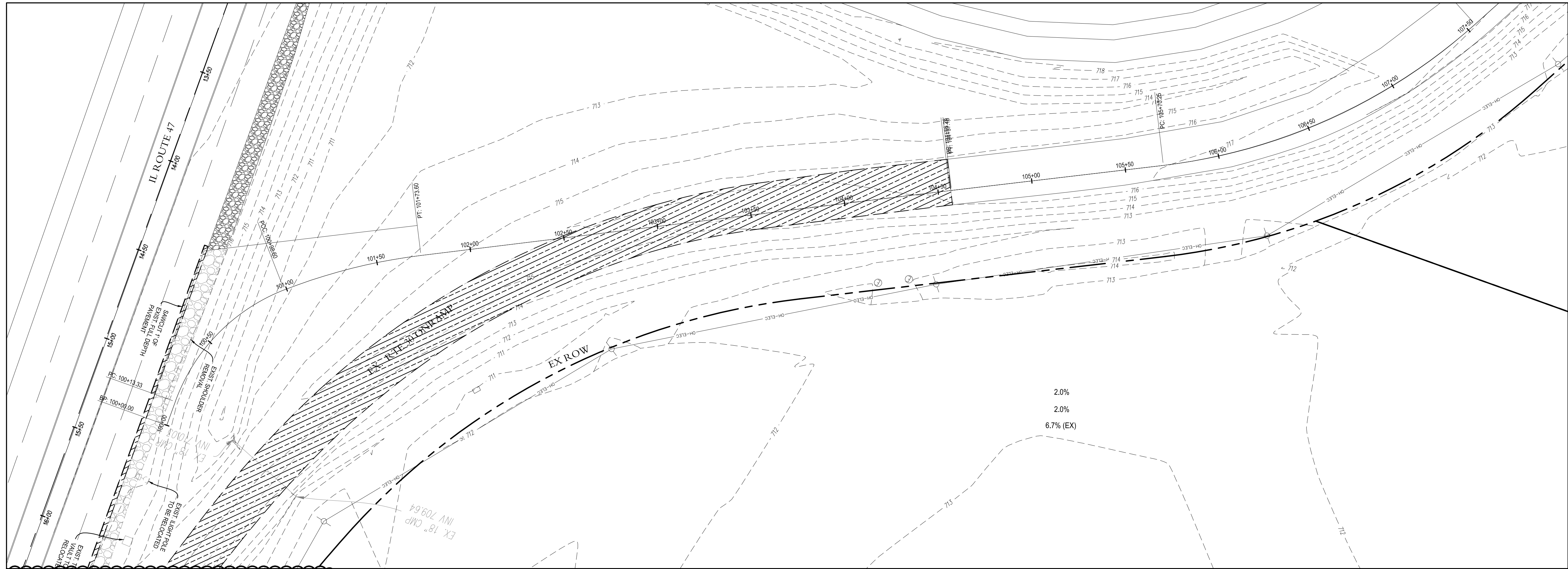
REVISIONS		
NO.	DATE	DESCRIPTION
1	11/8/21	PER IDOT COMMENTS

EXISTING CONDITIONS &
PROPOSED GEOMETRIC PLAN

IL ROUTE 47 IMPROVEMENTS
SWC IL 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

Craig R. Knoche & Associates
Civil Engineers, P.C.
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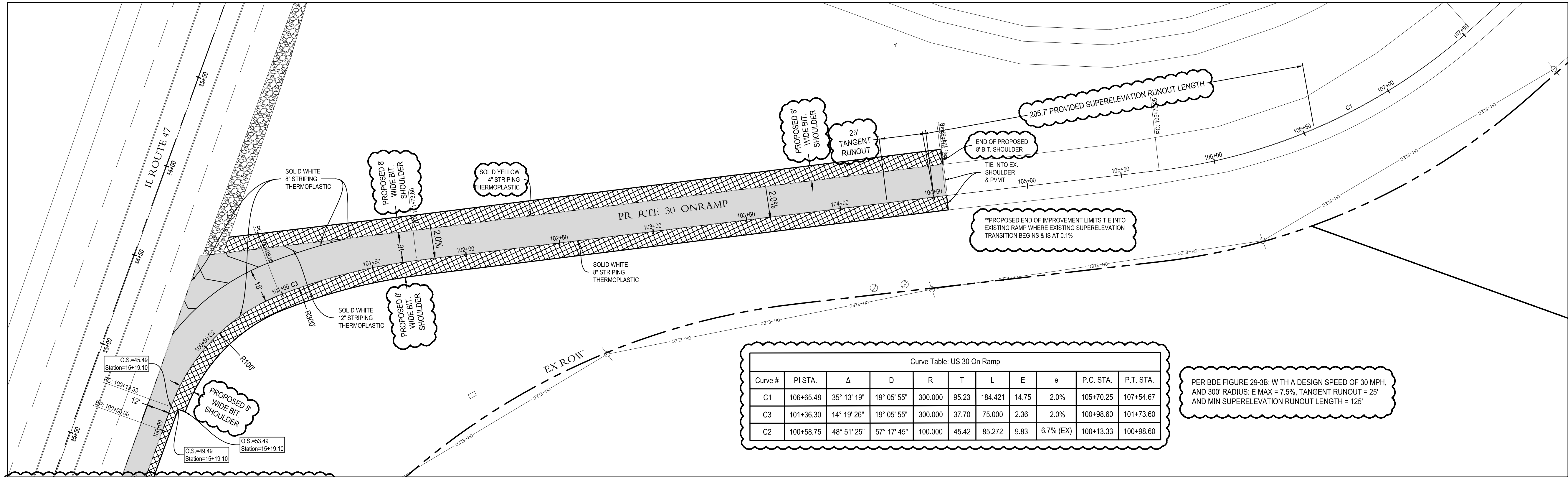
DATE:	8/11/21
FILE:	20-036 R10
JOB NO:	20-036
SHEET NO.	R1.2



LEGEND

- PAVEMENT REMOVAL - FULL DEPTH
- PROPOSED FULL DEPTH BIT. PAVEMENT
(PER DETAIL 7/R7.2)
- PROPOSED FULL DEPTH BIT. SHOULDER
(PER DETAIL 7/R7.2)

MATCH LINE SEE SHEET R1.2 - STA. 15+00



Curve Table: US 30 On Ramp											
Curve #	PI STA.	Δ	D	R	T	L	E	e	P.C. STA.	P.T. STA.	
C1	106+65.48	35° 13' 19"	19° 05' 55"	300.000	95.23	184.421	14.75	2.0%	105+70.25	107+54.67	
C3	101+36.30	14° 19' 26"	19° 05' 55"	300.000	37.70	75.000	2.36	2.0%	100+98.60	101+73.60	
C2	100+58.75	48° 51' 25"	57° 17' 45"	100.000	45.42	85.272	9.83	6.7% (EX)	100+13.33	100+98.60	

PER RDE FIGURE 29-3B: WITH A DESIGN SPEED OF 30 MPH, AND 300' RADIUS, E MAX = 7.5%, TANGENT RUNOUT = 25' AND MIN SUPERELEVATION RUNOUT LENGTH = 125'

MATCH LINE SEE SHEET R1.2 - STA. 15+00

REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11/8/21	PER IDOT COMMENTS			

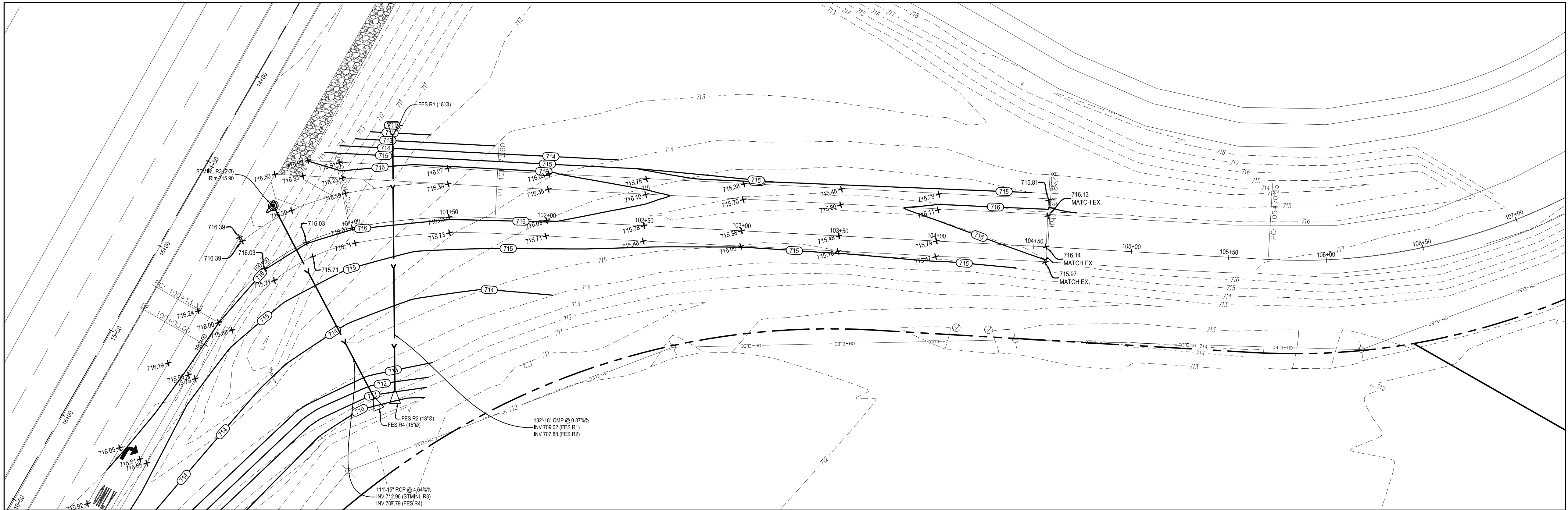
EXISTING CONDITIONS & PROPOSED GEOMETRIC PLAN

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SWC IL 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

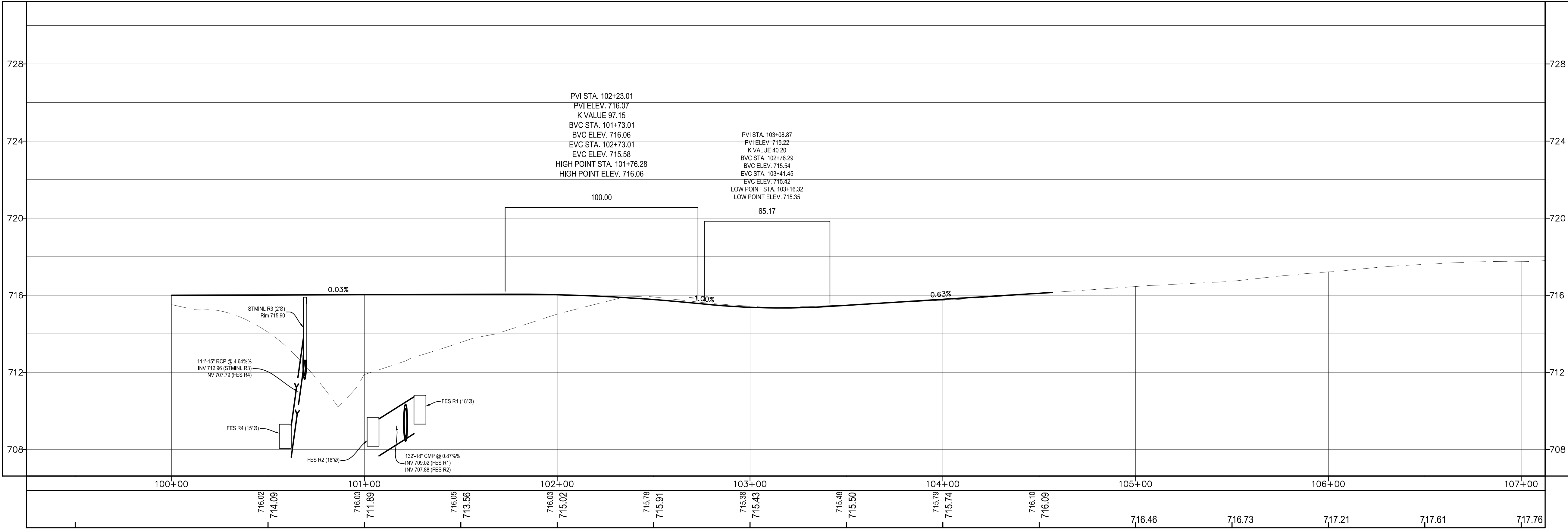
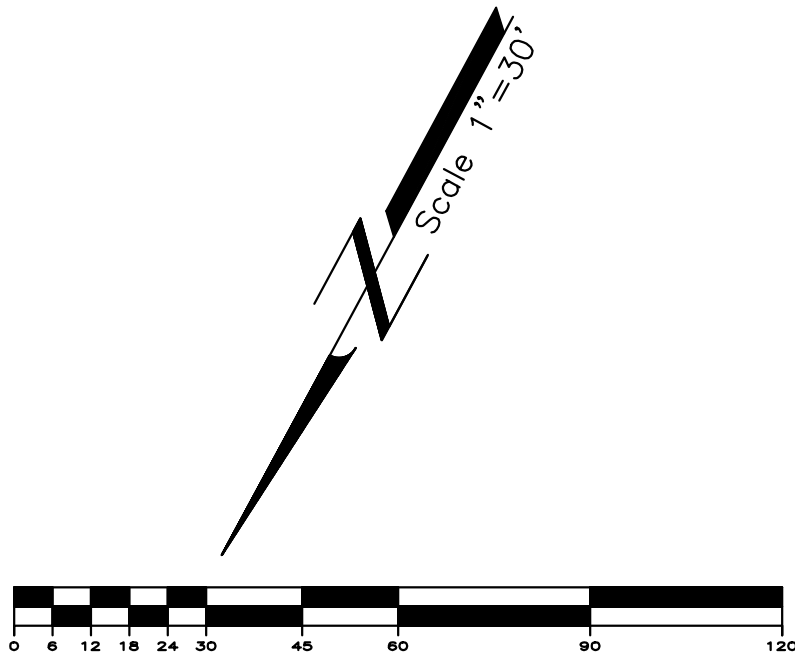
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DATE: 8/11/21
FILE: 20-036 R10
JOB NO: 20-036

R1.3
SHEET NO.



MATCH LINE: SEE SHEET R2.3



REVISIONS					
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
1	11/8/21	PER IDOT COMMENTS			

US 30 ONRAMP GRADING
PLAN & PROFILE

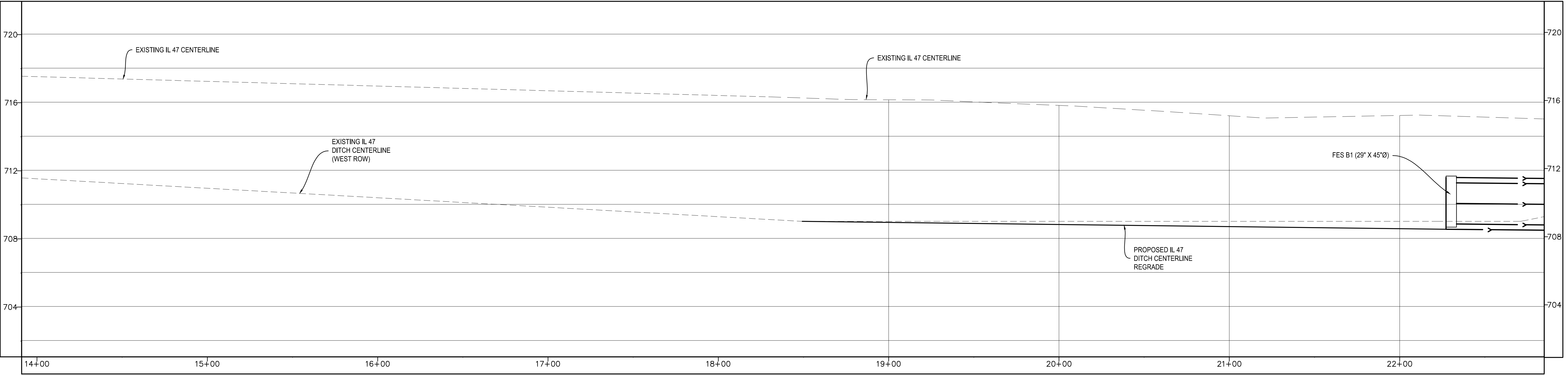
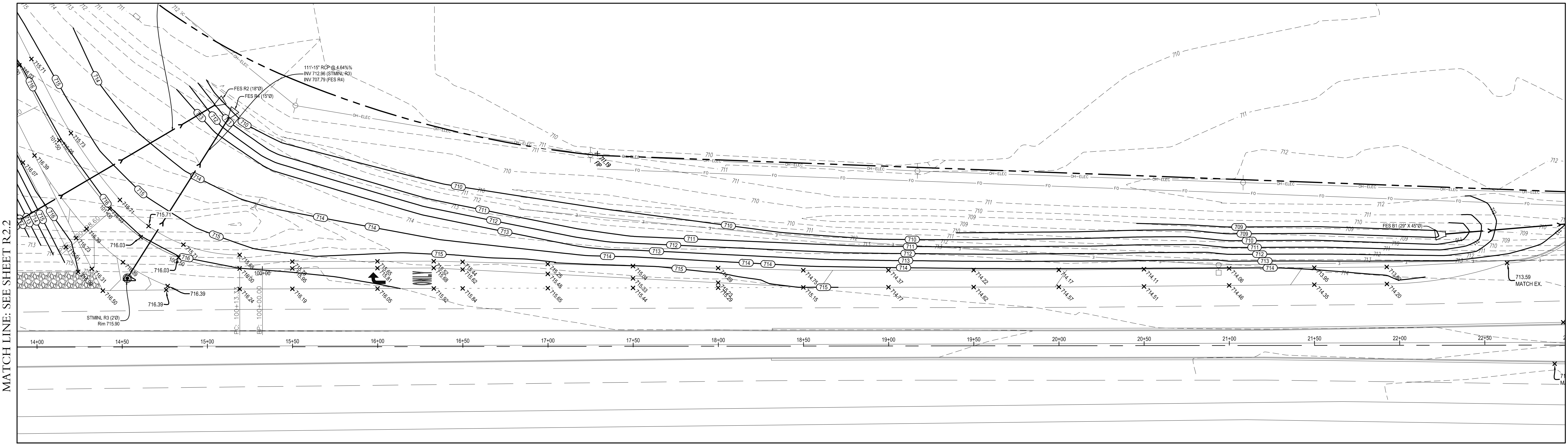
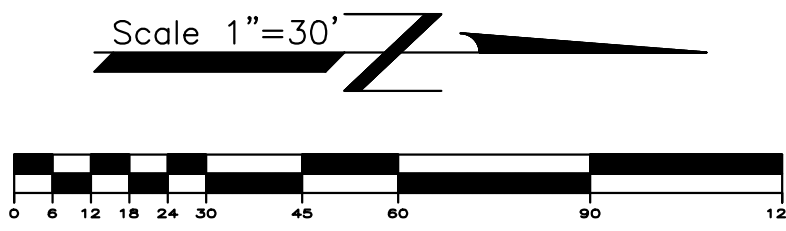
IL ROUTE 47 IMPROVEMENTS
SWC IL 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

1" = 3' VERTICAL SCALE
1" = 30' HORIZONTAL SCALE

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DATE: 6/17/21
FILE: 20-036 R20
JOB NO: 20-036

R2.2
SHEET NO.



R E V I S I O N S				
NO.	DATE	DESCRIPTION	NO.	DATE
1	11/8/21	PER IDOT COMMENTS		

IL ROUTE 47
DITCH PROFILE

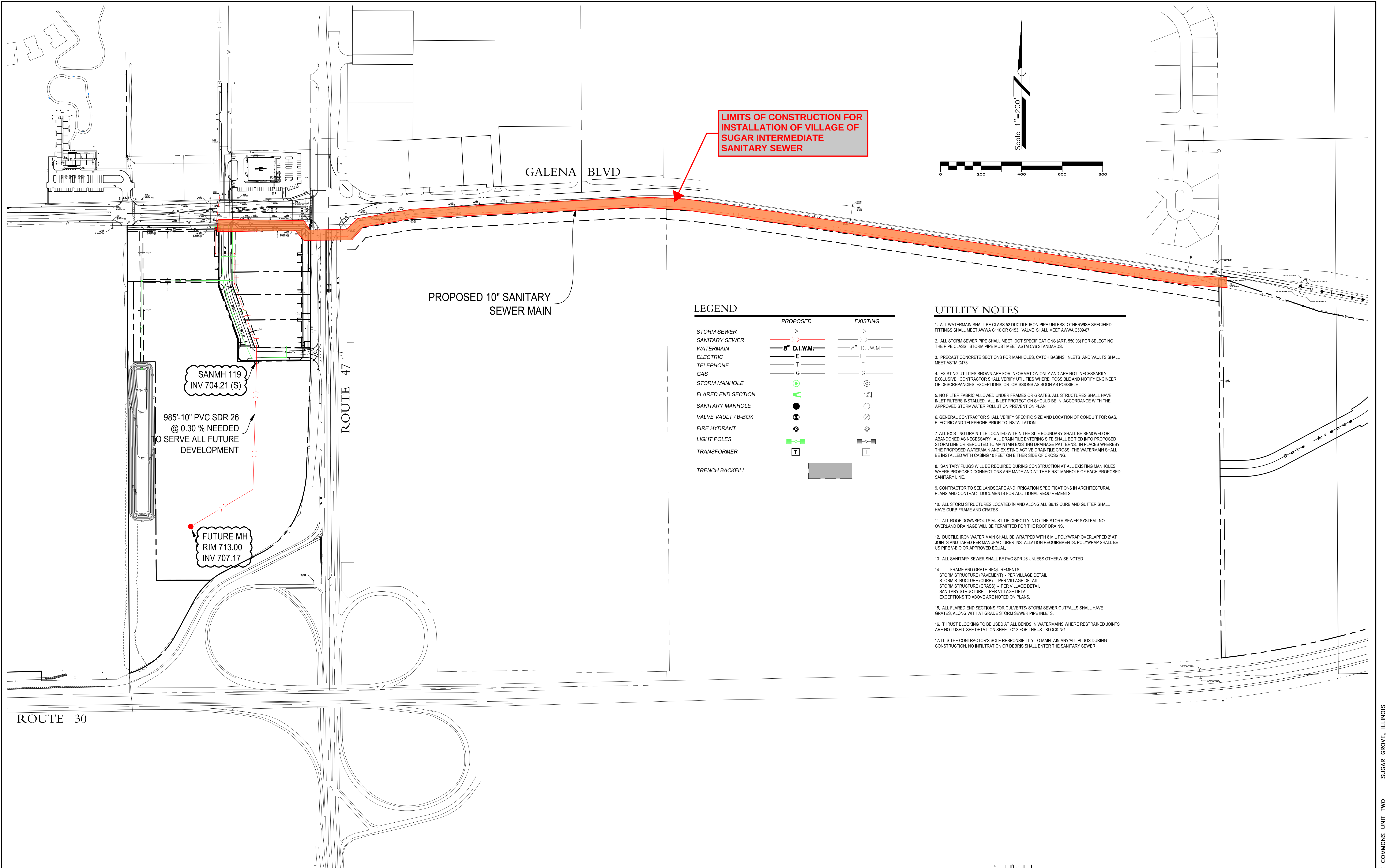
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SWC IL 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

1" = 3' VERTICAL SCALE
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DATE: 6/17/21
FILE: 20-036 R20
JOB NO: 20-036

R2.3
SHEET NO.



LIMITS OF CONSTRUCTION FOR
INSTALLATION OF VILLAGE OF
SUGAR INTERMEDIATE
SANITARY SEWER

PROPOSED 10" SANITARY
SEWER MAIN

SANMH 119
INV 704.21 (S)

985'-10" PVC SDR 26
@ 0.30 % NEEDED
TO SERVE ALL FUTURE
DEVELOPMENT

FUTURE MH
RIM 713.00
INV 707.17

LEGEND

	PROPOSED	EXISTING
STORM SEWER		
SANITARY SEWER		
WATERMAIN		
ELECTRIC		
TELEPHONE		
GAS		
STORM MANHOLE		
FLARED END SECTION		
SANITARY MANHOLE		
VALVE VAULT / B-BOX		
FIRE HYDRANT		
LIGHT POLES		
TRANSFORMER		
TRENCH BACKFILL		

UTILITY NOTES

1. ALL WATERMAIN SHALL BE CLASS 52 DUCTILE IRON PIPE UNLESS OTHERWISE SPECIFIED. FITTINGS SHALL MEET AWWA C110 OR C153. VALVE SHALL MEET AWWA C509-87.
2. ALL STORM SEWER PIPE SHALL MEET IDOT SPECIFICATIONS (ART. 550.03) FOR SELECTING THE PIPE CLASS. STORM PIPE MUST MEET ASTM C76 STANDARDS.
3. PRECAST CONCRETE SECTIONS FOR MANHOLES, CATCH BASINS, INLETS AND VAULTS SHALL MEET ASTM C478.
4. EXISTING UTILITIES SHOWN ARE FOR INFORMATION ONLY AND ARE NOT NECESSARILY EXCLUSIVE. CONTRACTOR SHALL VERIFY UTILITIES WHERE POSSIBLE AND NOTIFY ENGINEER OF DISCREPANCIES, EXCEPTIONS, OR OMISSIONS AS SOON AS POSSIBLE.
5. NO FILTER FABRIC ALLOWED UNDER FRAMES OR GRATES. ALL STRUCTURES SHALL HAVE INLET FILTERS INSTALLED. ALL INLET PROTECTION SHOULD BE IN ACCORDANCE WITH THE APPROVED STORMWATER POLLUTION PREVENTION PLAN.
6. GENERAL CONTRACTOR SHALL VERIFY SPECIFIC SIZE AND LOCATION OF CONDUIT FOR GAS, ELECTRIC AND TELEPHONE PRIOR TO INSTALLATION.
7. ALL EXISTING DRAIN TILE LOCATED WITHIN THE SITE BOUNDARY SHALL BE REMOVED OR ABANDONED AS NECESSARY. ALL DRAIN TILE ENTERING SITE SHALL BE TIED INTO PROPOSED STORM LINE OR REROUTED TO MAINTAIN EXISTING DRAINAGE PATTERNS. IN PLACES WHEREBY THE PROPOSED WATERMAIN AND EXISTING ACTIVE DRAIN TILE CROSS, THE WATERMAIN SHALL BE INSTALLED WITH CASING 10 FEET ON EITHER SIDE OF CROSSING.
8. SANITARY PLUGS WILL BE REQUIRED DURING CONSTRUCTION AT ALL EXISTING MANHOLES WHERE PROPOSED CONNECTIONS ARE MADE AND AT THE FIRST MANHOLE OF EACH PROPOSED SANITARY LINE.
9. CONTRACTOR TO SEE LANDSCAPE AND IRRIGATION SPECIFICATIONS IN ARCHITECTURAL PLANS AND CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS.
10. ALL STORM STRUCTURES LOCATED IN AND ALONG ALL 86.12 CURB AND GUTTER SHALL HAVE CURB FRAME AND GRATES.
11. ALL ROOF DOWNSPOUTS MUST BE DIRECTLY INTO THE STORM SEWER SYSTEM. NO OVERLAND DRAINAGE WILL BE PERMITTED FOR THE ROOF DRAINS.
12. DUCTILE IRON WATER MAIN SHALL BE WRAPPED WITH 8 MIL POLYWRAP OVERLAPPED 2' AT JOINTS AND TAPED PER MANUFACTURER INSTALLATION REQUIREMENTS. POLYWRAP SHALL BE US PIPE V-BIO OR APPROVED EQUAL.
13. ALL SANITARY SEWER SHALL BE PVC SDR 26 UNLESS OTHERWISE NOTED.
14. FRAME AND GRATE REQUIREMENTS:
STORM STRUCTURE (PAVEMENT) - PER VILLAGE DETAIL
STORM STRUCTURE (CURB) - PER VILLAGE DETAIL
STORM STRUCTURE (GRASS) - PER VILLAGE DETAIL
SANITARY STRUCTURE - PER VILLAGE DETAIL
EXCEPTIONS TO ABOVE ARE NOTED ON PLANS.
15. ALL FLARED END SECTIONS FOR CULVERTS/ STORM SEWER OUTFALLS SHALL HAVE GRATES, ALONG WITH AT GRADE STORM SEWER PIPE INLETS.
16. THRUST BLOCKING TO BE USED AT ALL BENDS IN WATERMAINS WHERE RESTRAINED JOINTS ARE NOT USED. SEE DETAIL ON SHEET C7.3 FOR THRUST BLOCKING.
17. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO MAINTAIN ANY/ALL PLUGS DURING CONSTRUCTION. NO INFILTRATION OR DEBRIS SHALL ENTER THE SANITARY SEWER.

REVISIONS

NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
8	2/28/22	PER VILLAGE COMMENTS			
3	9/15/21	PER VILLAGE COMMENTS			

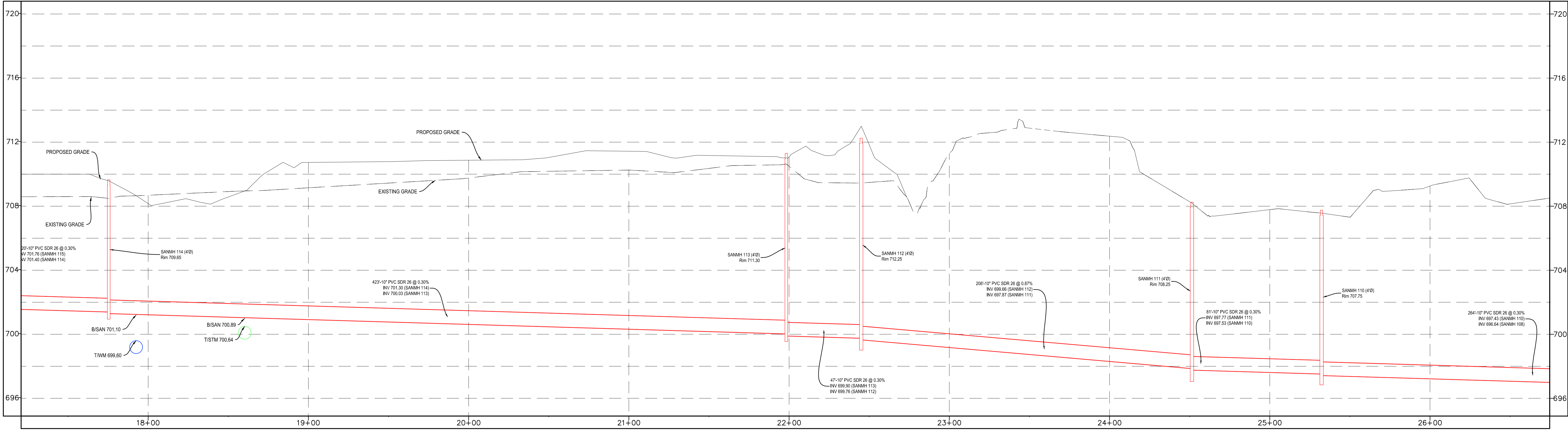
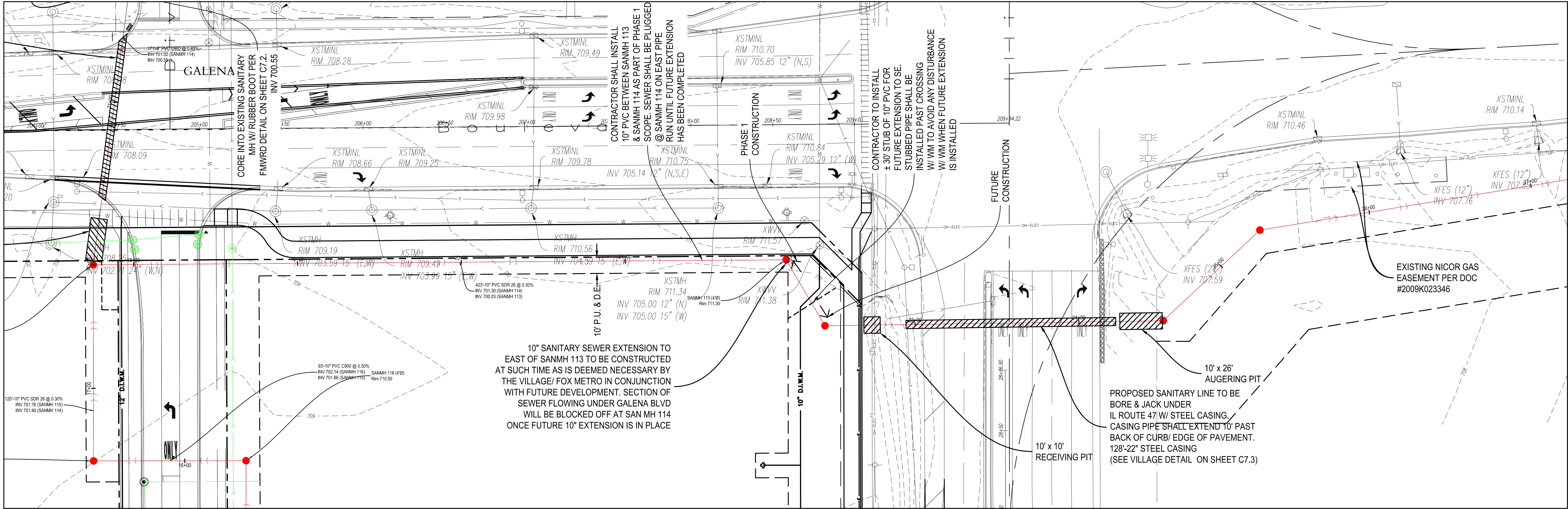
SANITARY EXTENSION
OVERVIEW

PRAIRIE GROVE COMMONS UNIT TWO
SWC IL ROUTE 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

Craig R. Knoche & Associates Civil Engineers
Civil Engineers, P.C. Surveyors
Land Planners
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DATE: 8/18/22
FILE: 20-036 C30
JOB NO: 20-036

C3.1
SHEET NO.



REVISIONS				
NO.	DATE	DESCRIPTION	NO.	DATE
8	2/28/22	PER VILLAGE COMMENTS		
3	9/15/21	PER VILLAGE COMMENTS		
2	7/6/21	PER VILLAGE COMMENTS		

SANITARY PLAN & PROFILE

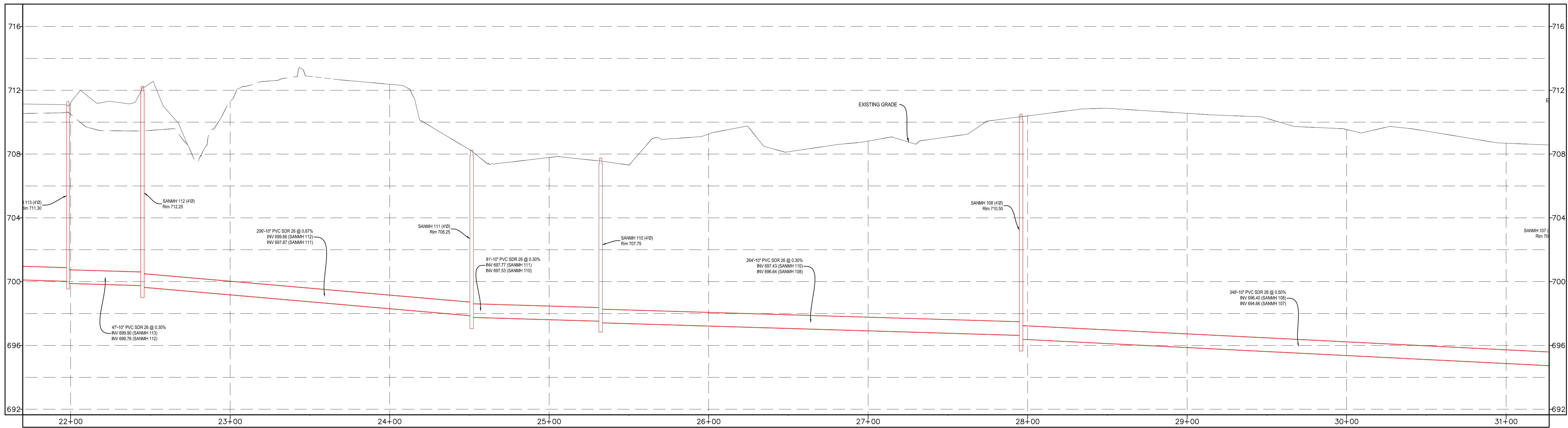
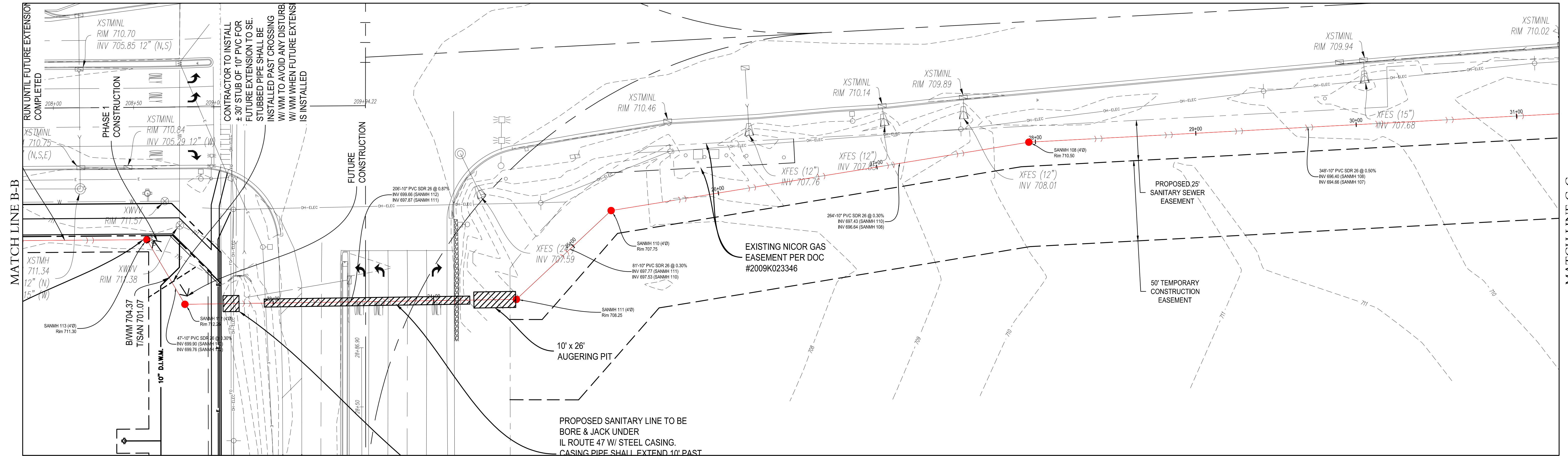
PRAIRIE GROVE COMMONS UNIT TWO
SWC IL ROUTE 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'

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DATE: 8/18/22
FILE: 20-036 C30
JOB NO: 20-036

C3.4
SHEET NO.



REVISIONS				
NO.	DATE	DESCRIPTION	NO.	DATE
3	9/15/21	PER VILLAGE COMMENTS		
2	7/6/21	PER VILLAGE COMMENTS		

SANITARY PLAN & PROFILE

PRAIRIE GROVE COMMONS UNIT TWO
SWC IL ROUTE 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

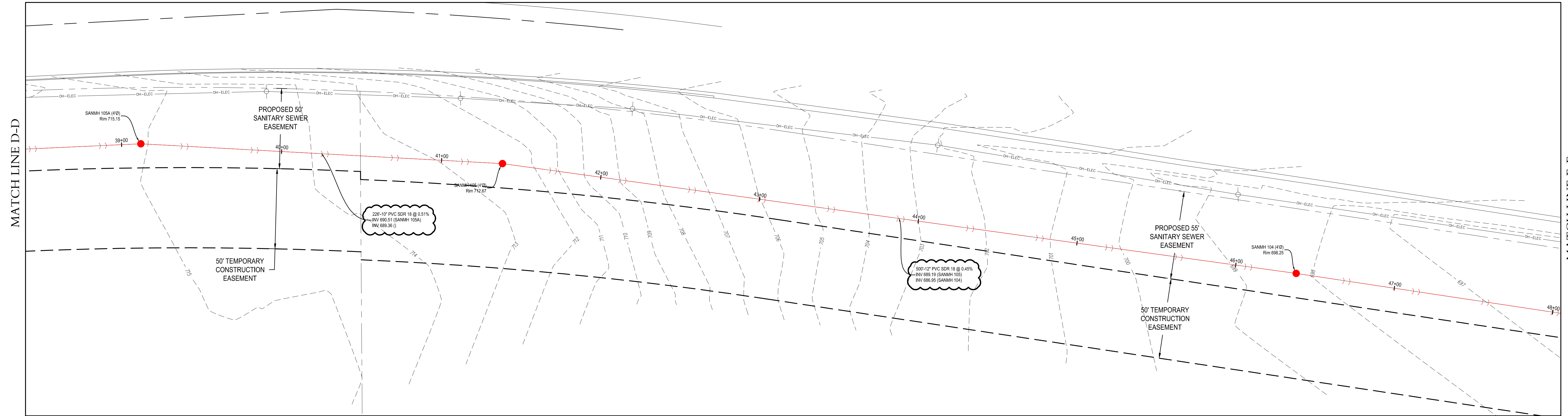
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VERTICAL SCALE: 1" = 3'



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DATE: 5/24/21
FILE: 20-036 C30
JOB NO: 20-036

C3.5
SHEET NO.



R E V I S I O N S						
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	
7	2/2/22	PER SAN. REVISIONS				
3	9/15/21	PER VILLAGE COMMENTS				
2	7/6/21	PER VILLAGE COMMENTS				

SANITARY PLAN & PROFILE

PRAIRIE GROVE COMMONS UNIT TWO
SWC IL ROUTE 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

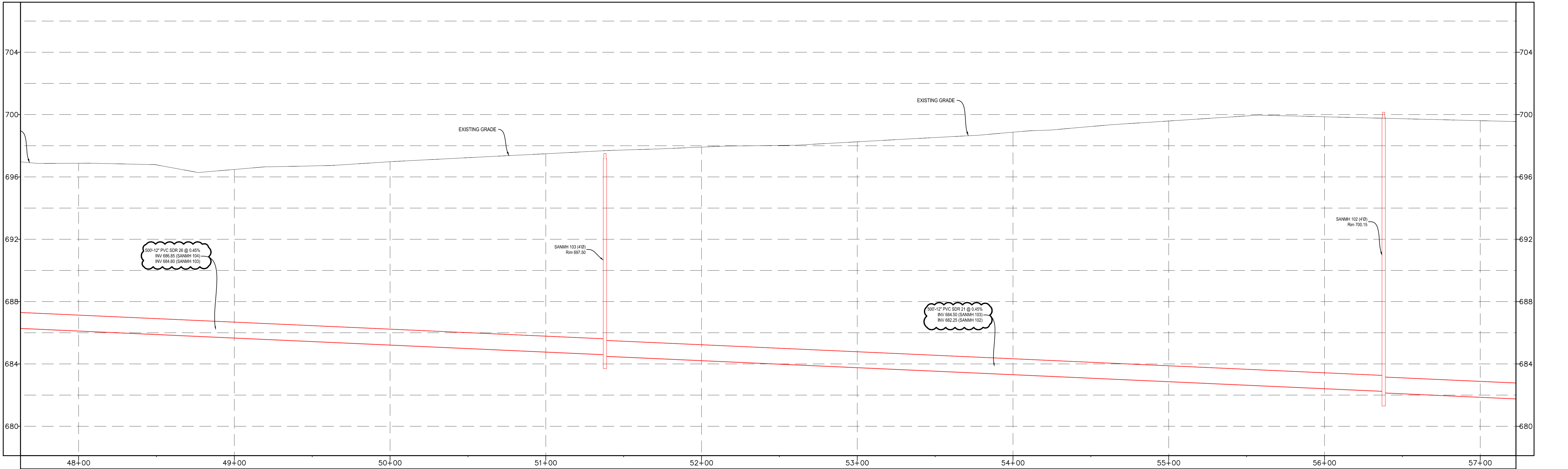
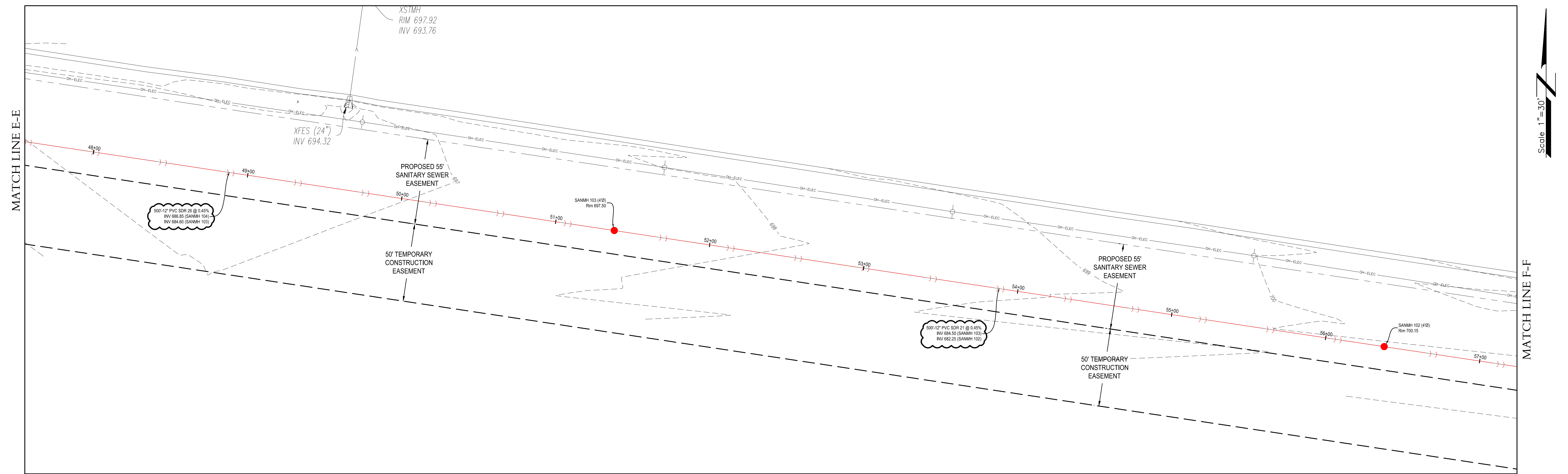
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'

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DATE: 8/18/22
FILE: 20-036 C30
JOB NO: 20-036

C3.7
SHEET NO.

PRAIRIE GROVE COMMONS UNIT TWO SUGAR GROVE, ILLINOIS



R E V I S I O N S				
NO.	DATE	DESCRIPTION	NO.	DATE
7	2/2/22	PER SAN. REVISIONS		
3	9/15/21	PER VILLAGE COMMENTS		
2	7/6/21	PER VILLAGE COMMENTS		

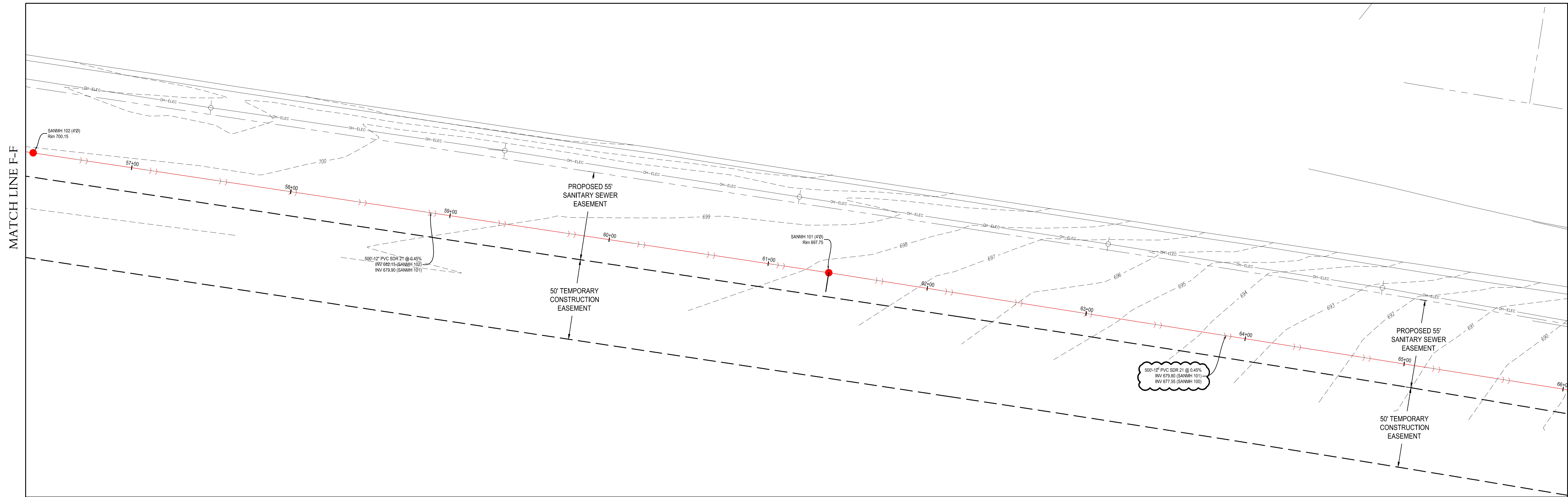
SANITARY
PLAN & PROFILE

PRAIRIE GROVE COMMONS UNIT TWO
SWC IL ROUTE 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 3'

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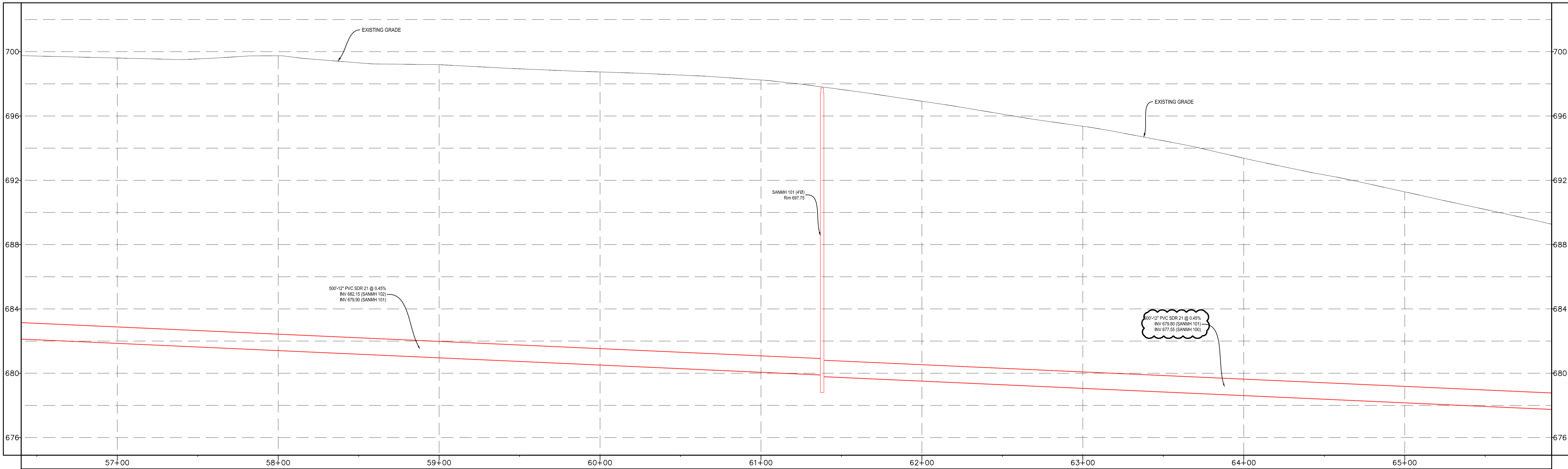
DATE: 8/18/22
FILE: 20-036 C30
JOB NO: 20-036
SHEET NO. C3.8



MATCH LINE F-F

MATCH LINE G-G

Scale 1"=30'



R E V I S I O N S							
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION		
7	2/2/22	PER SAN. REVISIONS					
3	9/15/21	PER VILLAGE COMMENTS					
2	7/6/21	PER VILLAGE COMMENTS					

SANITARY PLAN & PROFILE

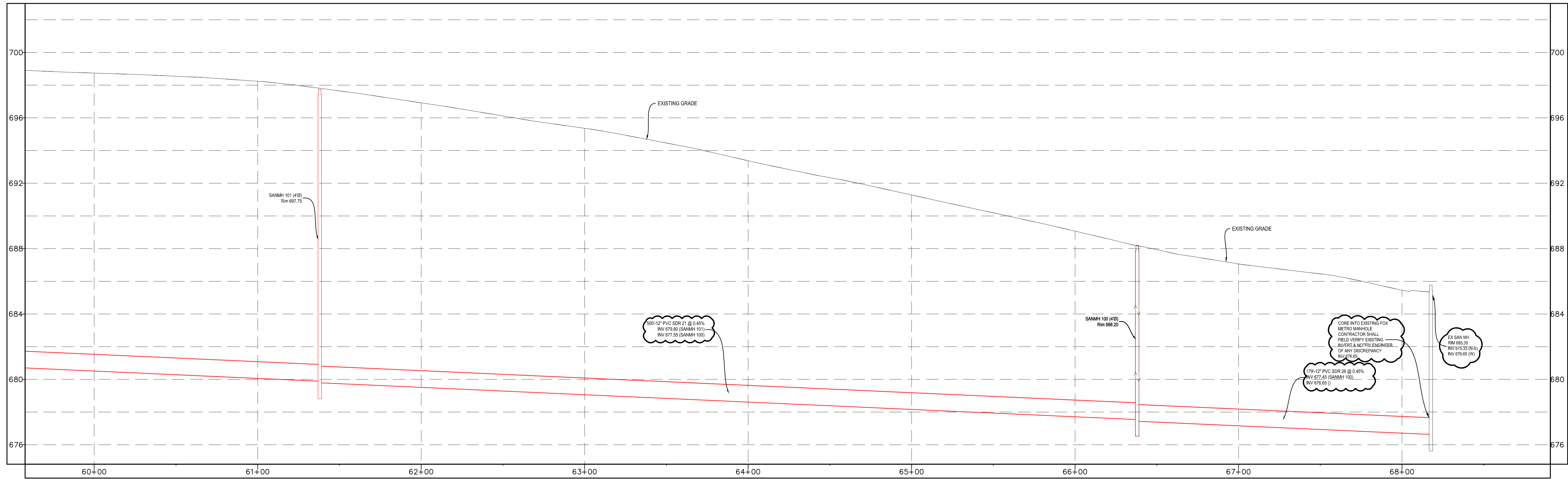
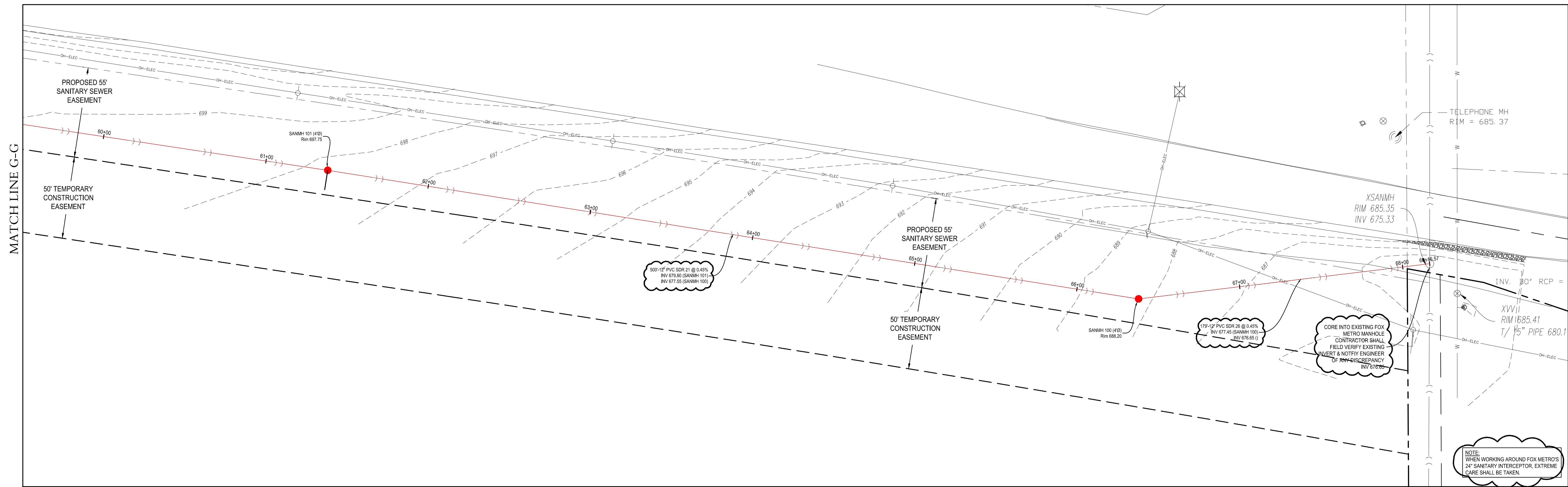
PRAIRIE GROVE COMMONS UNIT TWO
SWC IL ROUTE 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

HORIZONTAL SCALE: 1" = 30'
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DATE: 8/18/22
FILE: 20-036 C30
JOB NO: 20-036

C3.9
SHEET NO.



REVISIONS						
NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION	
7	2/2/22	PER SAN. REVISIONS				
3	9/15/21	PER VILLAGE COMMENTS				
2	7/6/21	PER VILLAGE COMMENTS				

SANITARY PLAN & PROFILE

PRAIRIE GROVE COMMONS UNIT TWO
SWC IL ROUTE 47 & GALENA BLVD
SUGAR GROVE, ILLINOIS

HORIZONTAL SCALE: 1" = 30'
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JOB NO: 20-036

C3.10
SHEET NO.