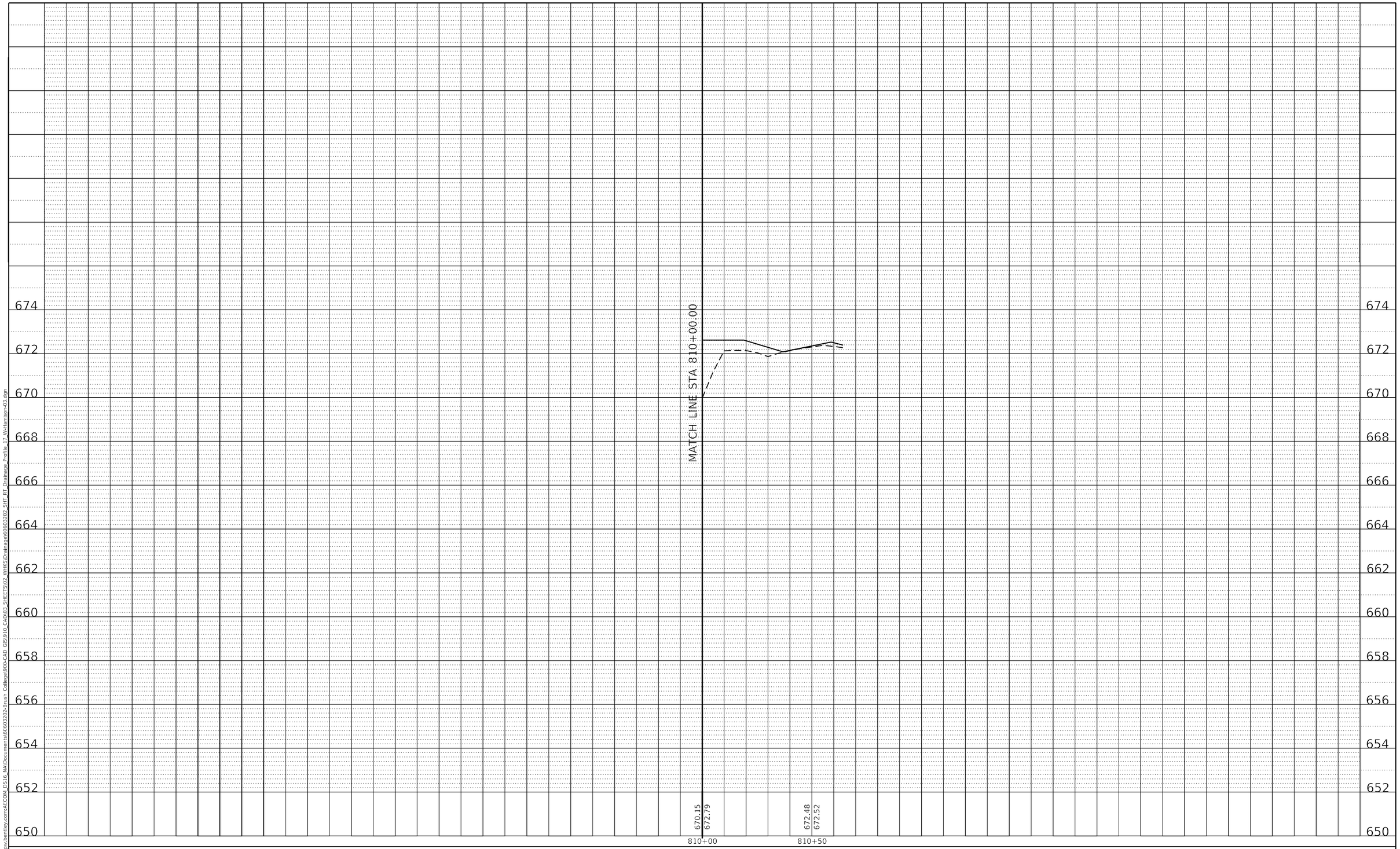

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DATE

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design firm no. 184001036
whks engineers + planners + land surveyors

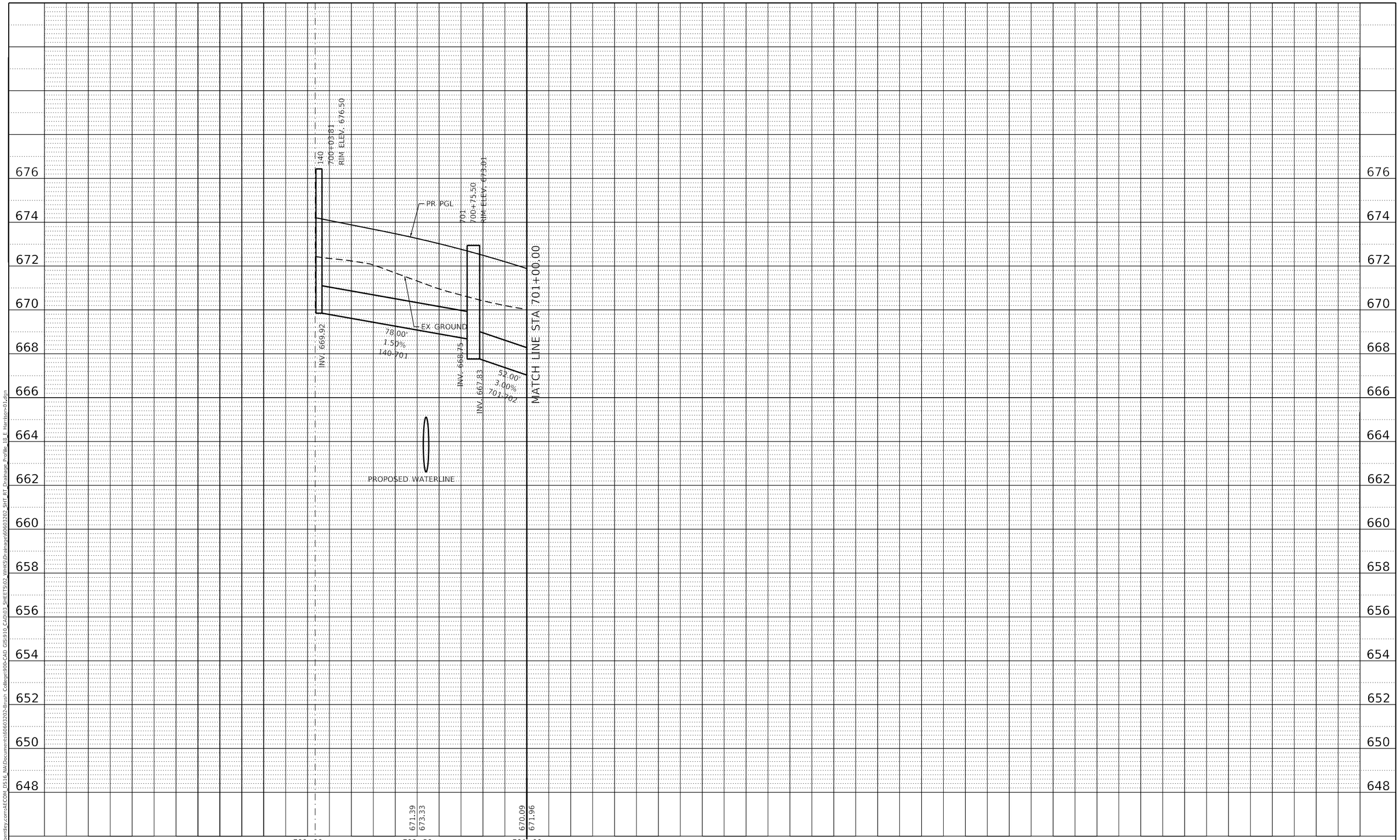
USER NAME = gjameson	DESIGNED - TJB	REVISED -	
	DRAWN - GSJ	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - CWC	REVISED -	
PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E HARRISON AVENUE (WEST LEG)
PROPOSED DRAINAGE PROFILES RIGHTSIDE

SCALE: 1"=10' V | SHEET 23 OF 27 SHEETS | STA. 804+50.00 TO STA. 810+20.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	501
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



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ALIGNMENT CHECKED
RT. OF WAY CHECKED
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NOTE BOOK
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GRADE CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD

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design firm no. 184001036
whks
engineers + planners + land surveyors

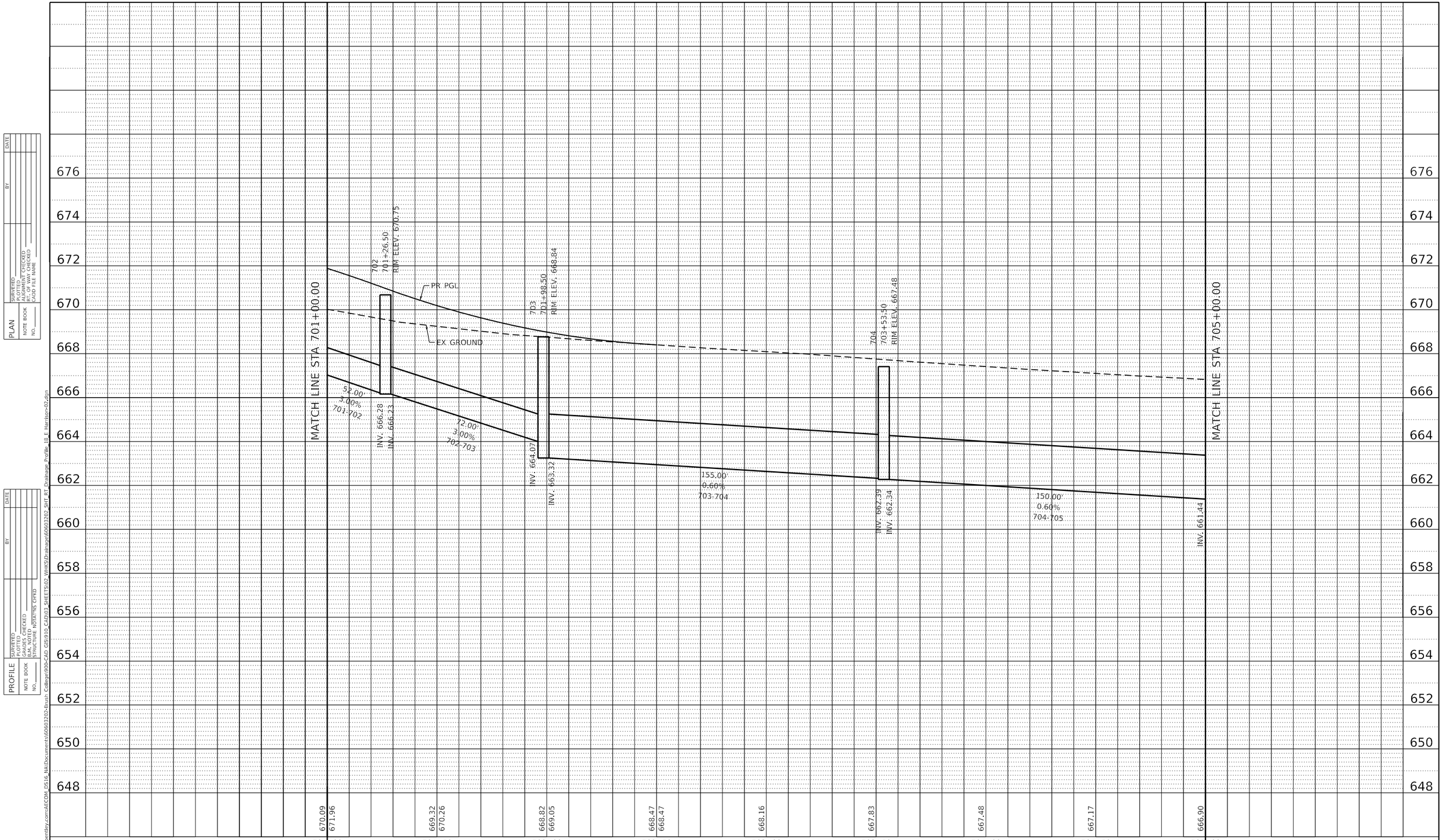
USER NAME = gjameson	DESIGNED - TJB	REVISED -
	DRAWN - GSJ	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - CWC	REVISED -
PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E HARRISON AVENUE (EAST LEG)
PROPOSED DRAINAGE PROFILES RIGHTSIDE

SCALE: 1"=10' V | SHEET 24 OF 27 SHEETS | STA. 700+00.00 TO STA. 705+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	502
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



PLAN
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BY
DATE
PROJECT CHECKED
RT. OF WAY CHECKED
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STRUCTURE NOTATIONS CHKD

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design firm no. 184001036
whks
engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED - TJB	REVISED -	
	DRAWN - GSJ	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - CWC	REVISED -	
PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E HARRISON AVENUE (EAST LEG)
PROPOSED DRAINAGE PROFILES RIGHTSIDE

SCALE: 1"=10' V | SHEET 25 OF 27 SHEETS | STA. 700+00.00 TO STA. 705+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	503
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

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PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.
BY
DATE

MATCH LINE STA 705+00.00

705
705+03.50
RIM ELEV. 666.69

706
707+11.50
RIM ELEV. 665.73

707
708+03.50
RIM ELEV. 665.43

708
708+48.24

EX. GROUND

INV. 661.44
INV. 661.39

208.00'
0.60%
705-706

INV. 660.14
INV. 659.40

92.00'
0.40%
706-707

INV. 659.04
INV. 658.99

59.00'
0.40%
707-708

INV. 658.75

666.90
666.61
666.36
666.19
665.97
665.70
665.25
665.31
665.88
665.96
666.42

676
674
672
670
668
666
664
662
660
658
656
654
652
650
648

705+00
705+50
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710+00

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design firm
no. 184001036
whks
engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED - TJB	REVISED -	
	DRAWN - GSJ	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - CWC	REVISED -	
PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E HARRISON AVENUE (EAST LEG)
PROPOSED DRAINAGE PROFILES RIGHTSIDE

SCALE: 1"=10' V | SHEET 26 OF 27 SHEETS | STA. 705+00.00 TO STA. 710+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	504
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

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ALIGNMENT CHECKED
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CADD FILE NAME
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GRADES CHECKED
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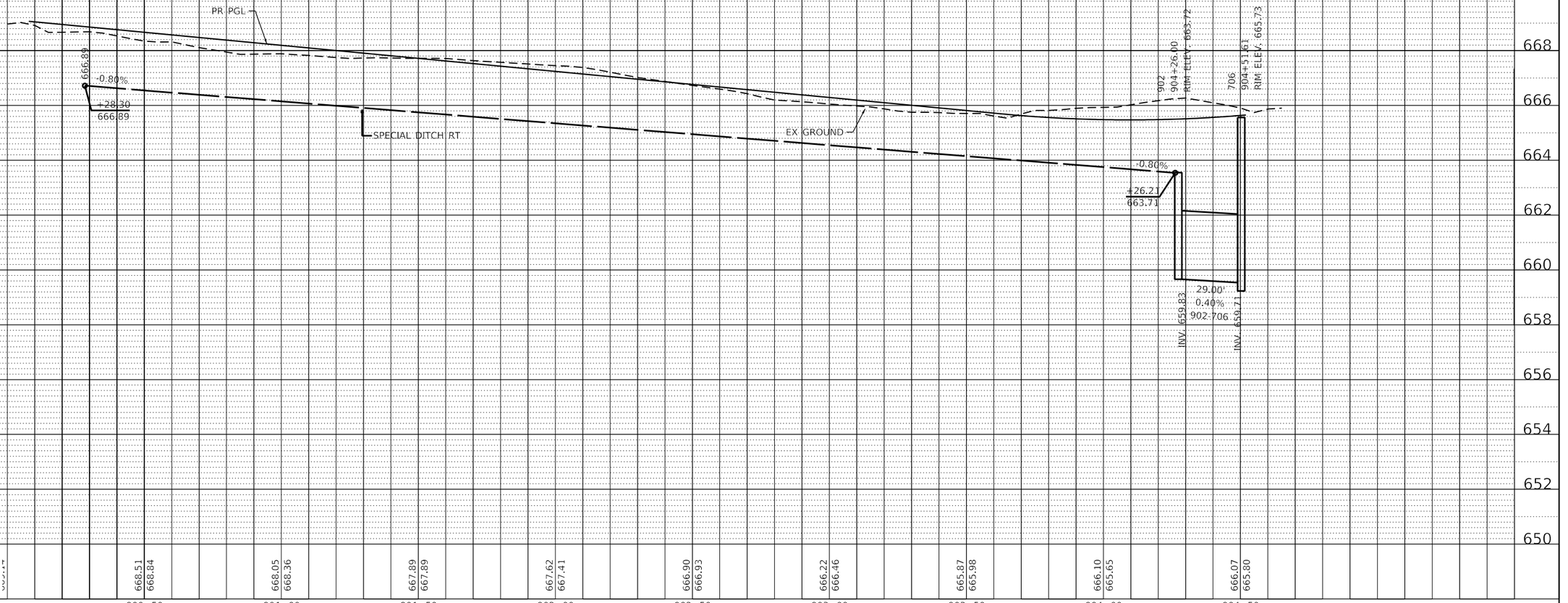
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE



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design firm no. 184001036 whks engineers + planners + land surveyors

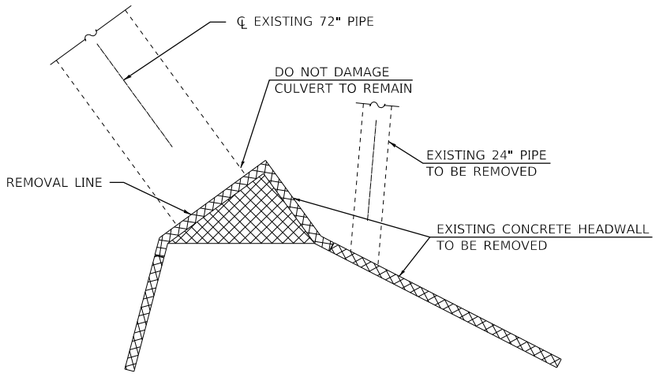
USER NAME = gjameson	DESIGNED - TJB	REVISED -
	DRAWN - GSJ	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - CWC	REVISED -
PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CEMETERY ACCESS
PROPOSED DRAINAGE PROFILES RIGHTSIDE

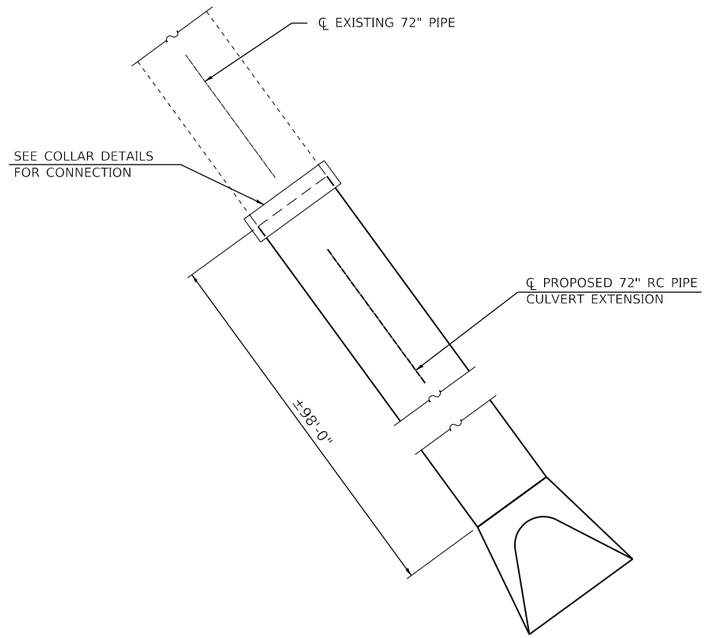
SCALE: 1"=10' V | SHEET 27 OF 27 SHEETS | STA. 900+00.00 | TO STA. 904+66.28

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	505
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



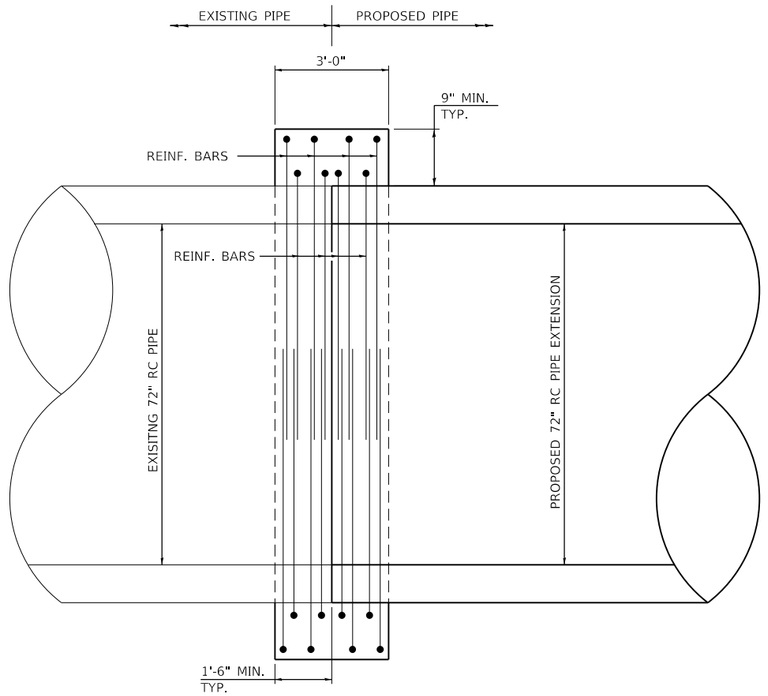
REMOVAL PLAN

FARIES ROAD (STA. 226+62)



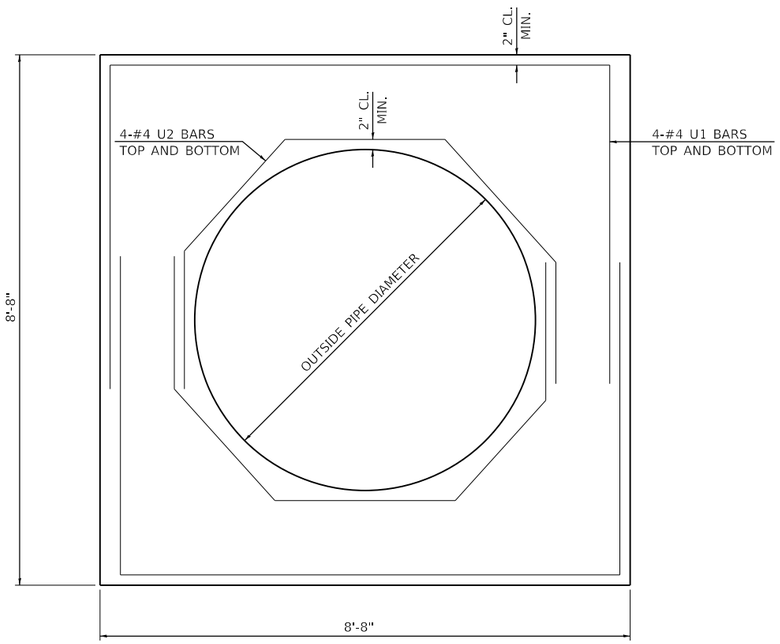
PROPOSED PLAN

FARIES ROAD (STA. 226+62)



COLLAR SECTION

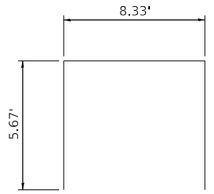
PIPE END TO PIPE END EXTENSION



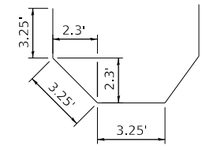
END SECTION

GENERAL NOTES

1. THE COLLAR SHALL BE CONSTRUCTED OF CLASS SI CONCRETE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.
2. THIS WORK SHALL BE PAID FOR BY THE CUBIC YARD FOR CONCRETE COLLAR WHICH SHALL INCLUDE THE COST OF THE REINFORCEMENT SHOWN.
3. DETAILS ARE NOT TO SCALE.
4. SEE DRAINAGE PLANS FOR ADDITIONAL DETAILS.



U1 BAR



U2 BAR

BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE COLLAR	CU. YD.	6.2

IF NEEDED FOR CONNECTION, A COLLAR SIMILAR TO ABOVE SHALL BE USED TO CONNECT PROPOSED 36" SS NEAR STR 809. A ESTIMATED QUANTITY OF 2.3 CU YD OF CONCRETE COLLAR HAS BEEN ADDED TO TOTAL QUANTITY.

design firm no. 184001036 whks engineers + planners + land surveyors

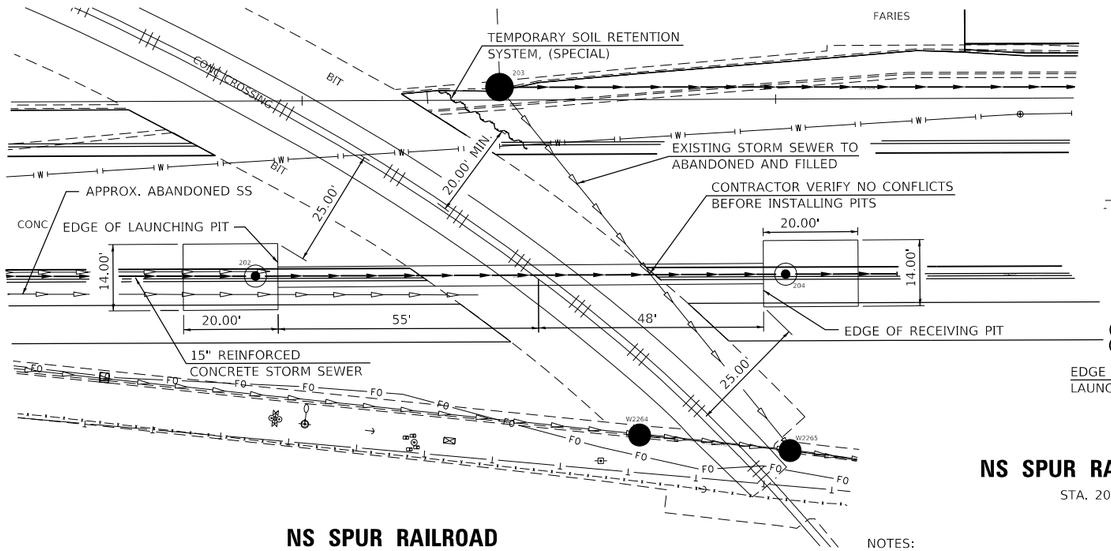
USER NAME = gjameson	DESIGNED - CWC	REVISED -
	DRAWN - DLH	REVISED -
PLOT SCALE = 0.167 ' / in.	CHECKED - CWC	REVISED -
PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -

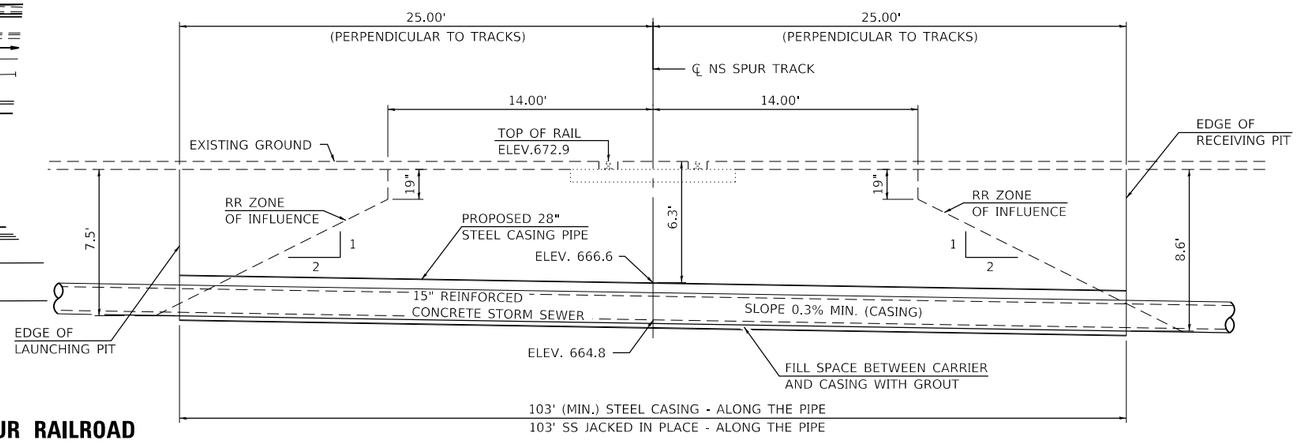
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
CONCRETE PIPE EXTENSION AND COLLAR DETAILS

SCALE: | SHEET 1 OF 7 SHEETS | STA. 207+98 | TO STA. 209+82

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	506
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			





NS SPUR RAILROAD

STA. 207+98.50

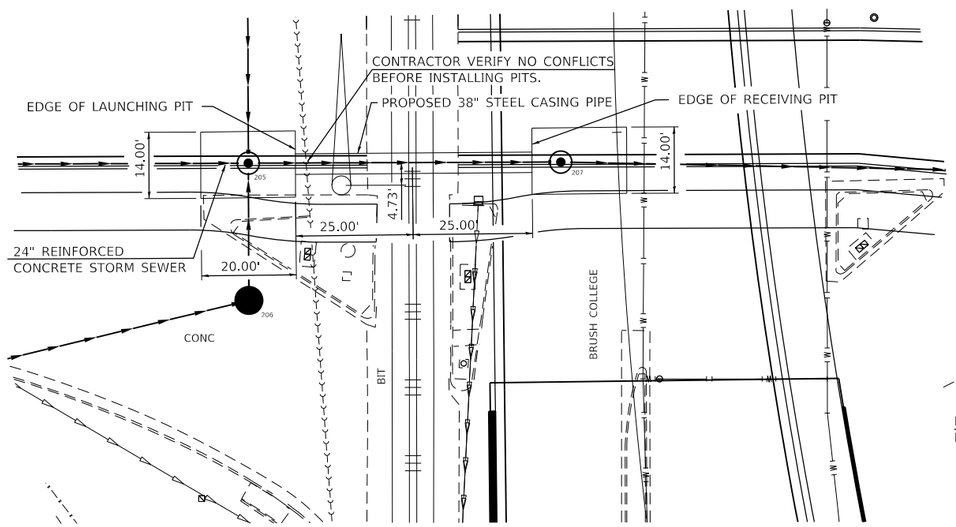
	Carrier Pipe	Casing Pipe
Contents to Be Carried	Storm Water	----
Diameter (inches)	15	28
Wall Thickness (inches)	2.25	0.438
Material/Type of Pipe	Reinf. Concrete	Steel
Specification/Grade	ASTM C76, Class IV, Wall B	fy =35,000 psi
Actual Working Pressure (psi)	----	----
Test Pressure (psi)	----	----
Joint Type	ASTM C443 Rubber Gasket Grouted Between Carier and Casing	Welded
Coating	----	----
Method of Installation	Jacked/Bored	Jacked/Bored
Cathodic Protection	None	None
Dimension from Top of Rail	----	
Protection at Ends of Casing	1/4" Steel Plate with holes for drainage	

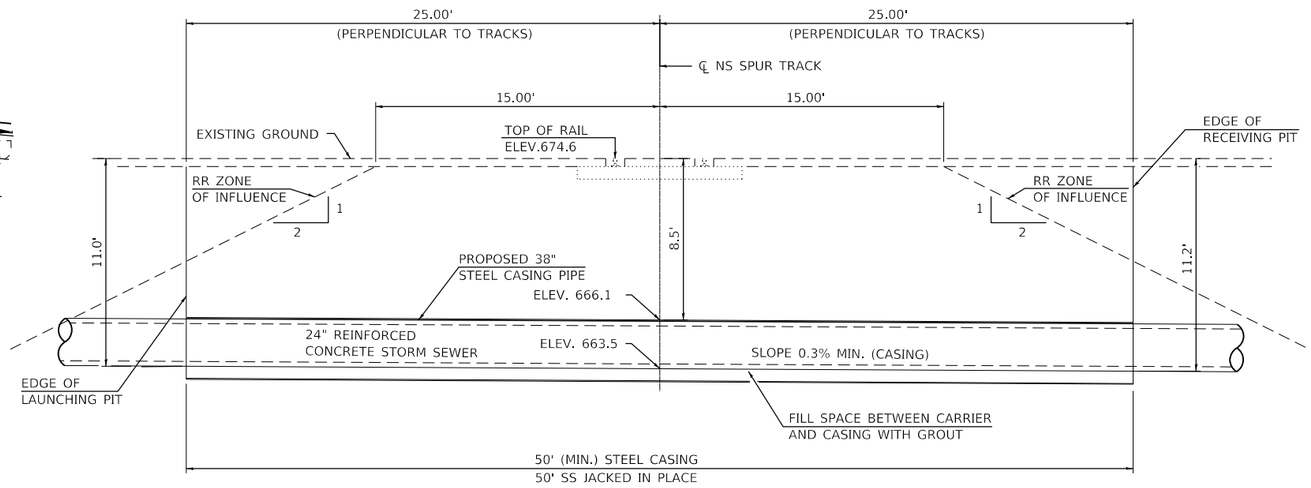
NOTES:

1. SEE DRAINAGE PLANS AND SPECIAL PROVISIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS NOT SHOWN.
2. SEE MOT AND STAGING DETAILS FOR SEQUENCE OF STORM SEWER CONSTRUCTION.
3. CASING SLOPE TO MATCH CARRIER SLOPE BUT CANNOT BE LESS THAN 0.3%.
4. CONTRACTOR IS ALERTED THERE IS AN ABANDONED 15" STORM SEWER IN THE VICINITY OF THE PROPOSED STORM SEWER TO BE JACKED IN PLACE. THE EXACT LOCATION OF THE ABANDONED STORM SEWER IS NOT KNOWN. CONTRACTOR SHALL POT HOLE TO VERIFY EXACT LOCATION OF ABANDONED UTILITY AND SUBMIT A REQUEST FOR ANY FIELD ADJUSTMENTS TO THE ENGINEER FOR APPROVAL. FIELD ADJUSTMENTS MUST BE APPROVED BY THE ENGINEER PRIOR TO ORDERING MATERIAL, INSTALLING JACKING AND RECEIVING PITS OR SUBMITTING FINAL PERMITS FOR EXCAVATIONS TO THE RAILROADS INVOLVED.
5. THE CONTRACTOR IS ALERTED TO THE PRESENCE OF UNDERGROUND STORM SEWER, SANITARY SEWERS AND OTHER UTILITIES. THESE SEWERS AND UTILITIES IN THE VICINITY AND UNDER THE PROPOSED TEMPORARY SOIL RETENTION SYSTEM NEED TO BE KEPT IN SERVICE DURING CONSTRUCTION. SEE DRAINAGE AND UTILITY PLANS.

IC RAILROAD

	Carrier Pipe	Casing Pipe
Contents to Be Carried	Storm Water	----
Diameter (inches)	24	38
Wall Thickness (inches)	3	0.562
Material/Type of Pipe	Reinf. Concrete	Steel
Specification/Grade	ASTM C76, Class IV, Wall B	fy =35,000 psi
Actual Working Pressure (psi)	----	----
Test Pressure (psi)	----	----
Joint Type	ASTM C443 Rubber Gasket Grouted Between Carier and Casing	Welded
Coating	----	----
Method of Installation	Jacked/Bored	Jacked/Bored
Cathodic Protection	None	None
Dimension from Top of Rail	----	
Protection at Ends of Casing	1/4" Steel Plate with holes for drainage	





IC RAILROAD

design firm no. 184001036 whks engineers + planners + land surveyors

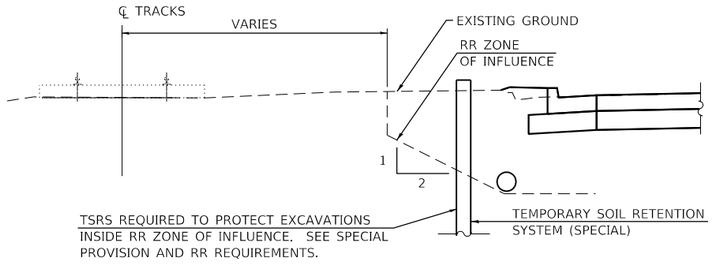
USER NAME = gjameson	DESIGNED - CWC	REVISED -	
	DRAWN - DLH	REVISED -	
PLOT SCALE = 0.1667 ' / in.	CHECKED - CWC	REVISED -	
PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

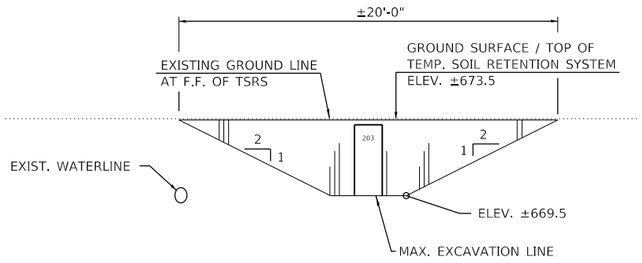
DRAINAGE DETAILS
STORM SEWER UNDER RAILROADS

SCALE: | SHEET 2 OF 7 SHEETS | STA. 207+98 | TO STA. 209+82

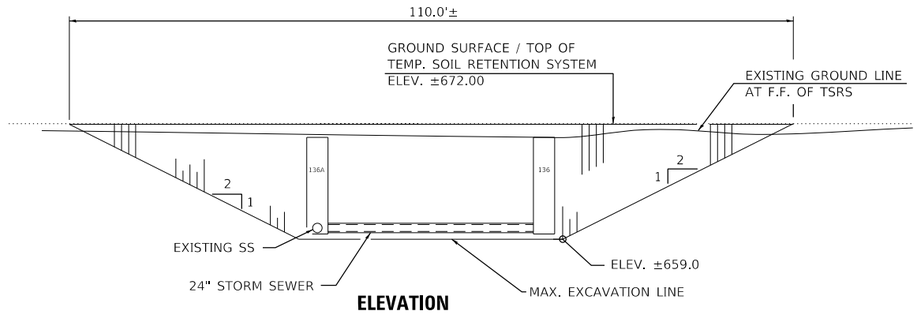
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	507
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			



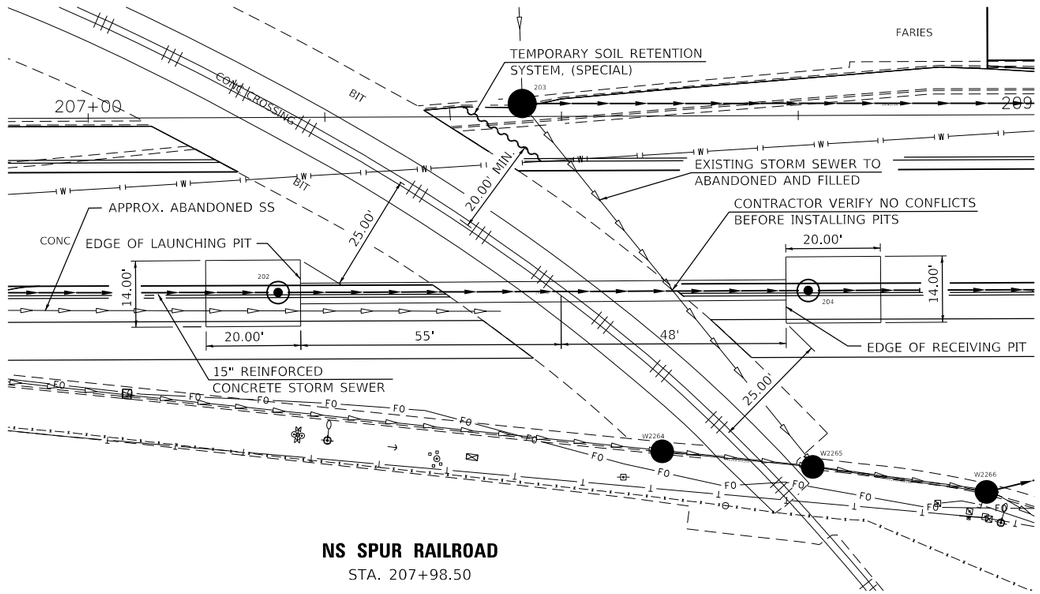
TYPICAL SECTION



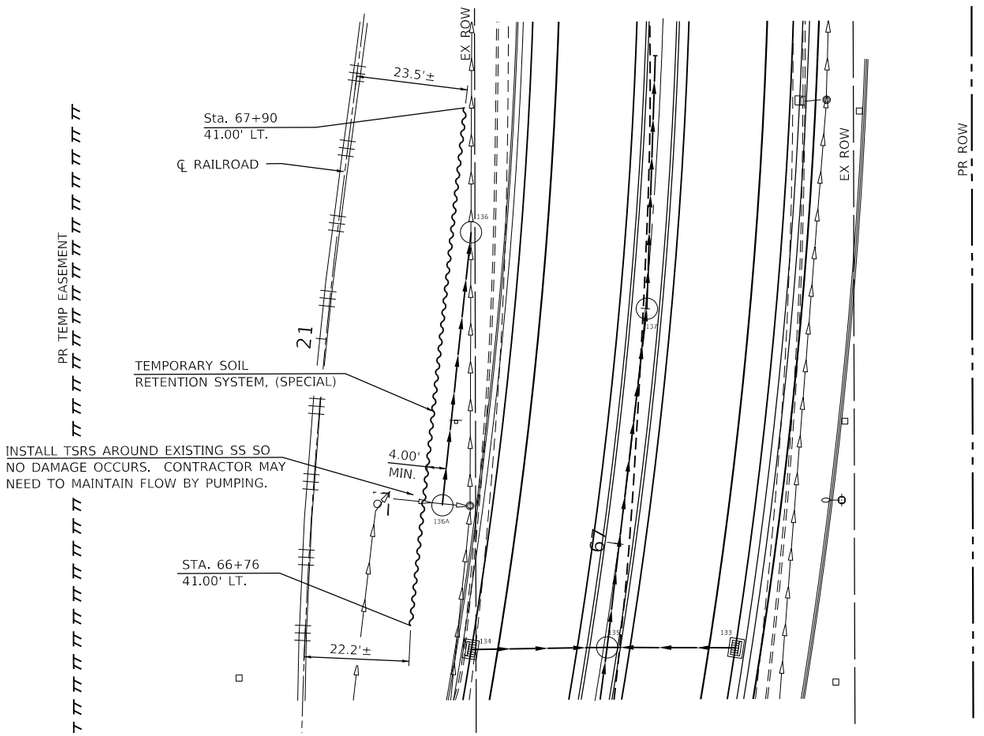
ELEVATION
STA. 207+98.50
(LOOKING WEST)



ELEVATION
STA. 67+32
(LOOKING WEST)



NS SPUR RAILROAD
STA. 207+98.50



PLAN
STA. 67+32

NOTES:

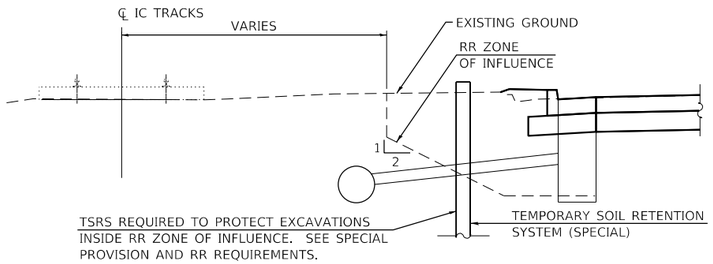
1. A CANTILEVERED SHEET PILING DESIGN DOES NOT APPEAR FEASIBLE AND ADDITIONAL MEMBERS OR OTHER RETENTION SYSTEMS MAY BE NECESSARY. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.
2. HORIZONTAL DIMENSIONS AND GROUNDS SLOPES ARE SHOWN ALONG THE TEMPORARY SOIL RETENTION SYSTEM UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR IS ALERTED TO THE PRESENCE OF UNDERGROUND STORM SEWER, SANITARY SEWERS AND OTHER UTILITIES. THESE SEWERS AND UTILITIES IN THE VICINITY AND UNDER THE PROPOSED TEMPORARY SOIL RETENTION SYSTEM NEED TO BE KEPT IN SERVICE DURING CONSTRUCTION. SEE DRAINAGE AND UTILITY PLANS.
4. TEMPORARY SOIL RETENTION SYSTEM IS PAID FOR AS TEMPORARY SOIL RETENTION SYSTEM (SPECIAL). SEE SPECIAL PROVISIONS.
5. DIMENSIONS AND OFFSETS ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED BASED ON ACTUAL DEPTHS OF STRUCTURES AND THE CONTRACTOR'S MEANS AND METHODS.

BILL OF MATERIAL

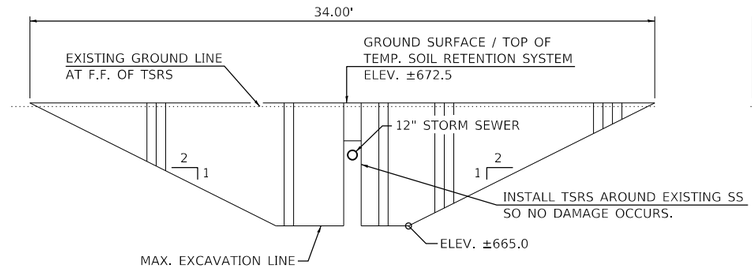
ITEM	UNIT	TOTAL
TEMPORARY SOIL RETENTION SYSTEM (SPECIAL)	SQ. FT.	1140

design firm no. 184001036 whks engineers + planners + land surveyors	USER NAME = gjameson	DESIGNED - CWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE DETAILS TEMPORARY SOIL RETENTION SYSTEM
		DRAWN - DLH	REVISED -		
	PLOT SCALE = 0.1667 ' / in.	CHECKED - CWC	REVISED -		SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.
	PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	508
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

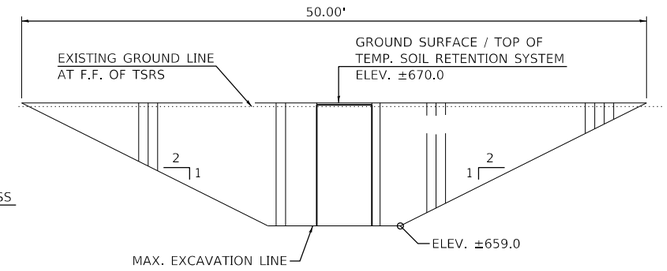


TYPICAL SECTION



TYPICAL ELEVATION (LOCATIONS 1–5)

(LOOKING WEST)
AT 5 LOCATIONS (SEE PLAN)
ELEVATIONS VARY



ELEVATION (LOCATION 6)

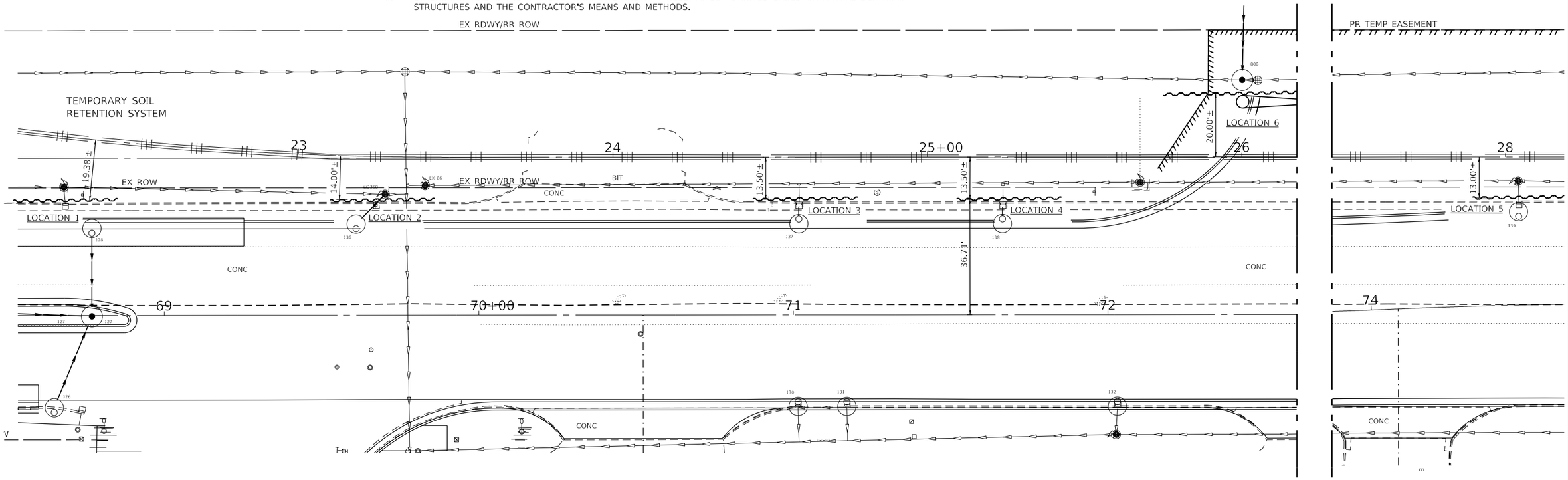
(STA. 72+40)
(LOOKING EAST)

NOTES:

1. A CANTILEVERED SHEET PILING DESIGN DOES NOT APPEAR FEASIBLE AND ADDITIONAL MEMBERS OR OTHER RETENTION SYSTEMS MAY BE NECESSARY. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.
2. HORIZONTAL DIMENSIONS AND GROUNDS SLOPES ARE SHOWN ALONG THE TEMPORARY SOIL RETENTION SYSTEM UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR IS ALERTED TO THE PRESENCE OF UNDERGROUND STORM SEWER, SANITARY SEWERS AND OTHER UTILITIES. THESE SEWERS AND UTILITIES IN THE VICINITY AND UNDER THE PROPOSED TEMPORARY SOIL RETENTION SYSTEM NEED TO BE KEPT IN SERVICE DURING CONSTRUCTION. SEE DRAINAGE AND UTILITY PLANS.
4. TEMPORARY SOIL RETENTION SYSTEM IS PAID FOR AS TEMPORARY SOIL RETENTION SYSTEM (SPECIAL). SEE SPECIAL PROVISIONS.
5. DIMENSIONS AND OFFSETS ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED BASED ON ACTUAL DEPTHS OF STRUCTURES AND THE CONTRACTOR'S MEANS AND METHODS.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
TEMPORARY SOIL RETENTION SYSTEM (SPECIAL)	SQ. FT.	1023



PLAN

design firm no. 184001036 whks engineers + planners + land surveyors	USER NAME = gjameson	DESIGNED - CWC	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DRAINAGE DETAILS TEMPORARY SOIL RETENTION SYSTEM**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - DLH	REVISED -			7448	09-00933-01-BR	MACON	1019	509
	PLOT SCALE = 0.1667 ' / in.	CHECKED - CWC	REVISED -						CONTRACT NO. 95893	
	PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -		SCALE:		ILLINOIS	FED. AID PROJECT		
					SHEET 4 OF 7 SHEETS STA. TO STA.					

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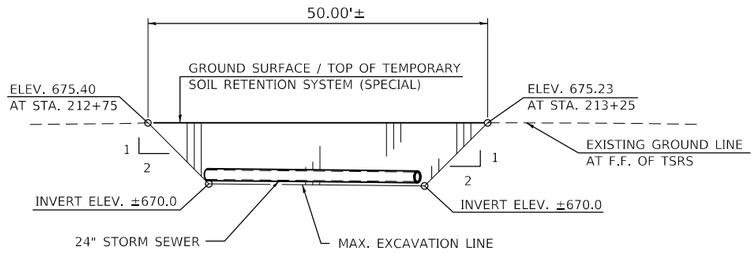
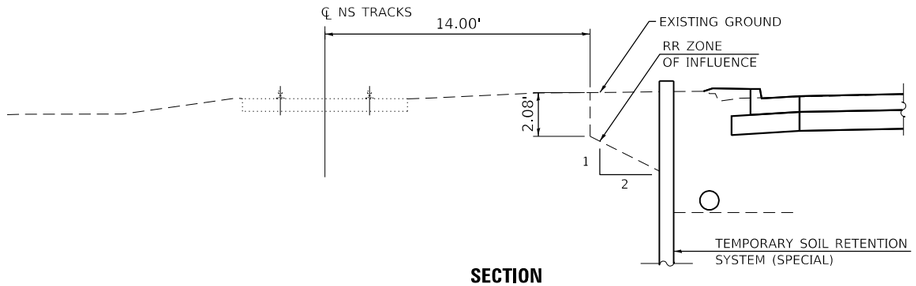
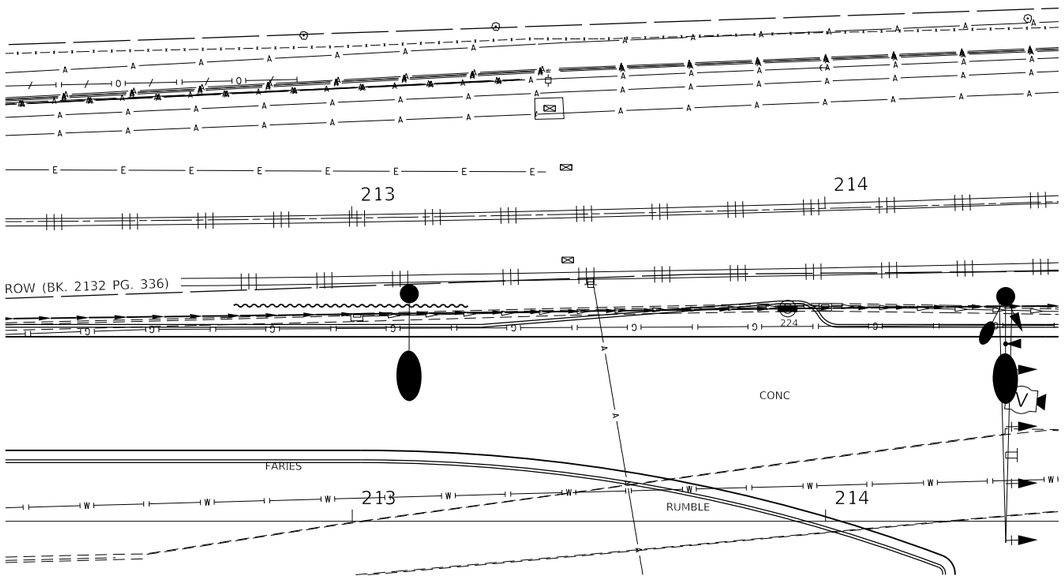


ELEVATION
(LOOKING NORTH)



SECTION
STA. ±212+75 TO ±213+25



PLAN

NOTES:

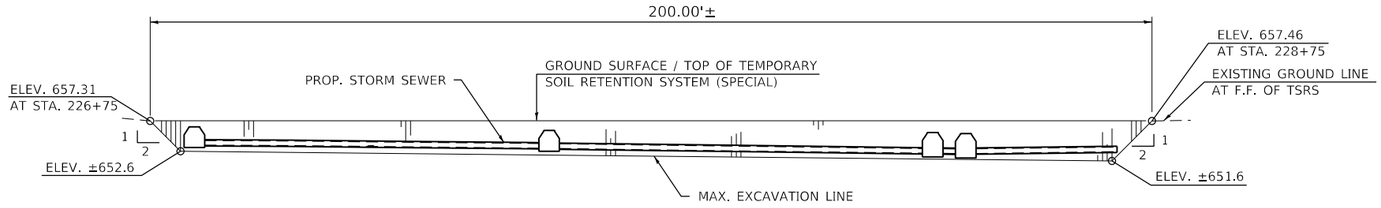
1. A CANTILEVERED SHEET PILING DESIGN DOES NOT APPEAR FEASIBLE AND ADDITIONAL MEMBERS OR OTHER RETENTION SYSTEMS MAY BE NECESSARY. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.
2. HORIZONTAL DIMENSIONS AND GROUNDS SLOPES ARE SHOWN ALONG THE TEMPORARY SOIL RETENTION SYSTEM UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR IS ALERTED TO THE PRESENCE OF UNDERGROUND STORM SEWER, SANITARY SEWERS AND OTHER UTILITIES. THESE SEWERS AND UTILITIES IN THE VICINITY AND UNDER THE PROPOSED TEMPORARY SOIL RETENTION SYSTEM NEED TO BE KEPT IN SERVICE DURING CONSTRUCTION. SEE DRAINAGE AND UTILITY PLANS.
4. TEMPORARY SOIL RETENTION SYSTEM IS PAID FOR AS TEMPORARY SOIL RETENTION SYSTEM (SPECIAL). SEE SPECIAL PROVISIONS.
5. DIMENSIONS AND OFFSETS ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED BASED ON ACTUAL DEPTHS OF STRUCTURES AND THE CONTRACTOR'S MEANS AND METHODS.
6. TSRS INSTALLATION SHALL BE COORDINATED WITH INSTALLATION OF TRAFFIC SIGNAL AND LIGHT FOUNDATIONS.

BILL OF MATERIAL

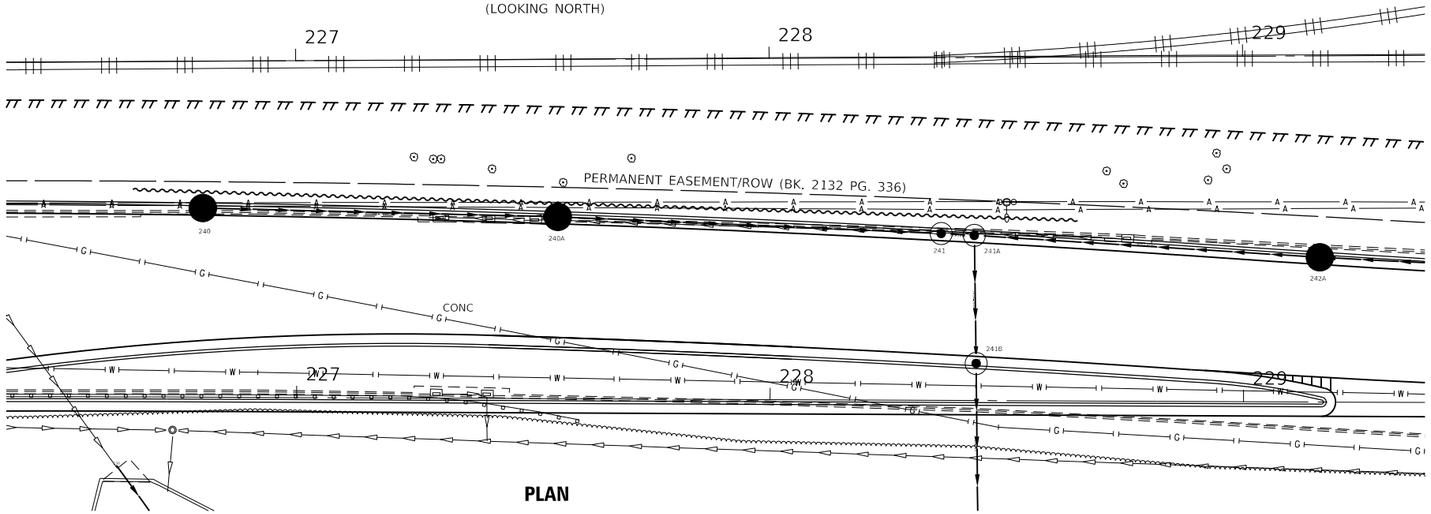
ITEM	UNIT	TOTAL
TEMPORARY SOIL RETENTION SYSTEM (SPECIAL)	SQ. FT.	209

design firm no. 184001036 whks engineers + planners + land surveyors	USER NAME = gjameson	DESIGNED - CWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE DETAILS TEMPORARY SOIL RETENTION SYSTEM
		DRAWN - DLH	REVISED -		
	PLOT SCALE = 0.1667 ' / in.	CHECKED - CWC	REVISED -		
	PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -		SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

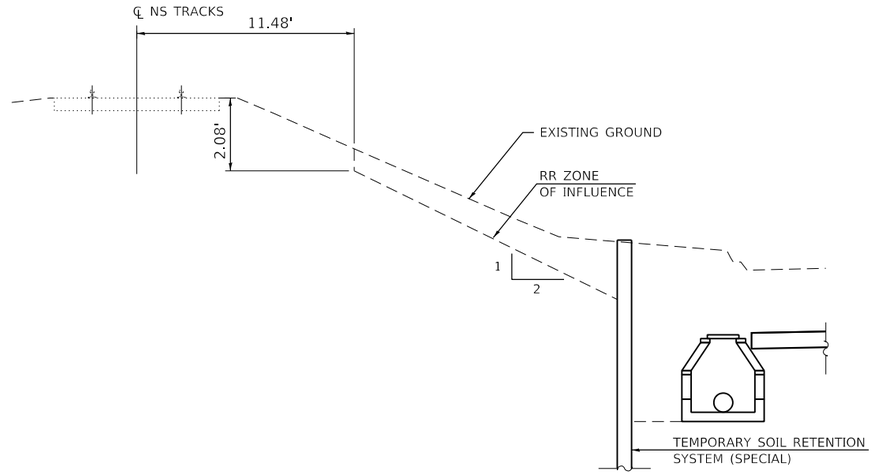
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	510
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



ELEVATION
(LOOKING NORTH)



PLAN



SECTION
STA. ±226+75 TO ±228+75

NOTES:

1. A CANTILEVERED SHEET PILING DESIGN DOES NOT APPEAR FEASIBLE AND ADDITIONAL MEMBERS OR OTHER RETENTION SYSTEMS MAY BE NECESSARY. THE CONTRACTOR SHALL SUBMIT A TEMPORARY SOIL RETENTION SYSTEM DESIGN INCLUDING PLAN DETAILS AND CALCULATIONS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.
2. HORIZONTAL DIMENSIONS AND GROUNDS SLOPES ARE SHOWN ALONG THE TEMPORARY SOIL RETENTION SYSTEM UNLESS NOTED OTHERWISE.
3. THE CONTRACTOR IS ALERTED TO THE PRESENCE OF UNDERGROUND STORM SEWER, SANITARY SEWERS AND OTHER UTILITIES. THESE SEWERS AND UTILITIES IN THE VICINITY AND UNDER THE PROPOSED TEMPORARY SOIL RETENTION SYSTEM NEED TO BE KEPT IN SERVICE DURING CONSTRUCTION. SEE DRAINAGE AND UTILITY PLANS.
4. TEMPORARY SOIL RETENTION SYSTEM IS PAID FOR AS TEMPORARY SOIL RETENTION SYSTEM (SPECIAL). SEE SPECIAL PROVISIONS.
5. DIMENSIONS AND OFFSETS ARE APPROXIMATE AND MAY NEED TO BE ADJUSTED BASED ON ACTUAL DEPTHS OF STRUCTURES AND THE CONTRACTOR'S MEANS AND METHODS.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
TEMPORARY SOIL RETENTION SYSTEM (SPECIAL)	SQ. FT.	992

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design firm no. 184001036 whks engineers + planners + land surveyors

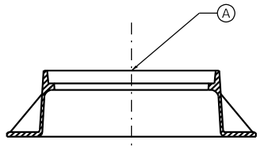
USER NAME = gjameson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

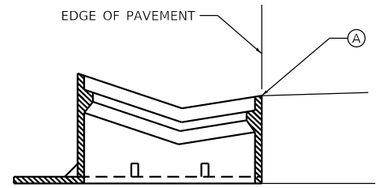
DRAINAGE DETAILS
TEMPORARY SOIL RETENTION SYSTEM

SCALE: | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	511
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

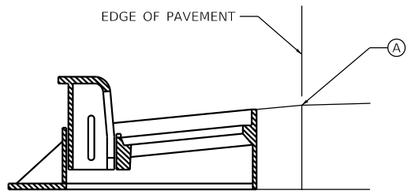


TYPE 1



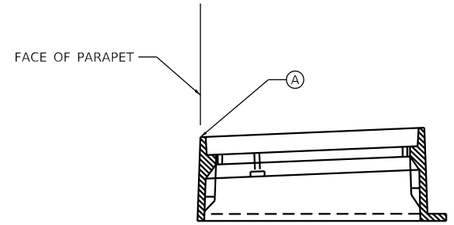
TYPE 10

NOTE: EXCEPT FOR STRUCTURES 100, 103, 105, AND 107 WHICH ARE LOCATED BEHIND RETAINING WALL AND OFFSETS ARE GIVEN TO CENTER OF STRUCTURE AND ELEVATIONS TO FLOW LINE OF GUTTER.

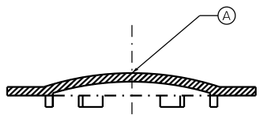


TYPE 3 / TYPE 11 / TYPE 6

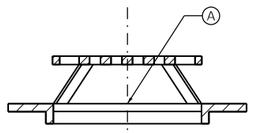
EOP TO CASTING AND STRUCTURE VARIES AT CURB FLARES.



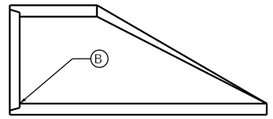
TYPE 20



TYPE 8



SPECIAL FRAME AND GRATE
(CITY STD. 3044)



PRECAST REINFORCED CONCRETE FLARED END SECTION

NOTES

CONTRACTOR TO COORDINATE WITH ROADWAY PLANS AT CURB FLARES TO DETERMINE EXACT STRUCTURE LOCATION FROM EOP OFFSETS GIVEN.

(A) LOCATION OF STATION, OFFSET, & RIM ELEVATION OF DRAINAGE CASTING AS NOTED ON THE DRAINAGE PLANS AND SCHEDULES.

(B) WORKING POINT STATION, OFFSET & INVERT LOCATION AS NOTED ON THE DRAINAGE PLANS AND SCHEDULES.

DRAINAGE CASTING LOCATIONS

design firm no. 184001036 whks engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED - CWC	REVISED -	
	DRAWN - DLH	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - CWC	REVISED -	
PLOT DATE = 4/27/2021	DATE - 4/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

SCALE: | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	512
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

WATER MAIN & SANITARY SEWER GENERAL NOTES

1. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

2. PROFILE VIEW LOCATIONS OF THE EXISTING UTILITIES ARE BASED ON ASSUMED DEPTH. ACTUAL DEPTHS OF SUCH EXISTING UTILITIES MAY BE SHALLOWER OR DEEPER THAN SHOWN.

3. WATER MAIN AND SERVICE PIPES SHALL HAVE A MINIMUM COVER OF 3.5 FEET FROM GROUND SURFACE AND 6 FEET FROM TRAIN TRACKS, UNLESS OTHERWISE SHOWN IN THE PLANS.

4. ANY SHEETING, SHORING OR TEMPORARY SOIL RETENTION SYSTEM USED FOR WATER MAIN AND/OR SANITARY SEWER WORK SHALL BE INCLUDED IN THE COST OF THE ITEM BEING INSTALLED, REMOVED, ADJUSTED, OR ABANDONED AND SHALL NOT BE PAID SEPARATELY.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE PROPOSED WATER MAIN AND SANITARY SEWER SO THAT THERE ARE NOT ANY CONFLICTS WITH THE REQUIRED CLEARANCES FROM EXISTING OR PROPOSED UTILITIES. SEE ROADWAY DRAINAGE AND UTILITY SHEETS FOR PROPOSED STORM SEWER INFORMATION.

6. PRIOR TO STARTING ANY CONSTRUCTION A FIVE (5) WORKING DAY NOTIFICATION IS REQUIRED. NOTIFY THE CITY OF DECATUR PUBLIC WORKS AND ENGINEERING, (217) 424-2747 TO ARRANGE FOR REQUIRED INSPECTION.

7. ALL MATERIAL INCORPORATED INTO THIS PUBLIC WATER MAIN IMPROVEMENT REQUIRES INSPECTION AND APPROVAL PRIOR TO ANY CONSTRUCTION.

8. THE SEPARATION REQUIREMENTS BETWEEN WATER MAIN AND SEWERS SHALL BE IN ACCORDANCE WITH 35 IL ADMINISTRATIVE CODE, SUBTITLE F, SECTION 653.119.

9. WATER MAIN SHUTDOWNS: COORDINATE SHUTDOWN OF EXISTING WATER MAINS WITH THE CITY OF DECATUR AND ENGINEER. CONTRACTOR SHALL NOT OPERATE EXISTING VALVES AND HYDRANTS ON THE CITY'S EXISTING WATER SYSTEM. CONTRACTOR SHALL SCHEDULE WITH THE CITY OF DECATUR A MINIMUM OF 48 HOURS PRIOR TO THE REQUIRED SHUTDOWN OF EXISTING WATER MAINS.

10. WATER MAIN FITTINGS AND CONNECTIONS: INCLUDE ALL NECESSARY PIPING, FITTINGS AND ADAPTERS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL ALSO VERIFY EXACT LOCATION, DEPTH, MATERIAL, AND SIZE OF EXISTING WATER MAIN AND PIPING BEFORE ORDERING NEW MATERIALS. THE CONTRACTOR SHALL CONNECT TO EXISTING WATER MAINS, REGARDLESS OF LOCATION, DEPTH, AND MATERIAL, AT NO ADDITIONAL COST. TEES AND FITTINGS SHALL BE ROLLED AS NEEDED FOR CONSTRUCTION TO ACCOMODATE CONNECTIONS, AVOID UTILITY CONFLICTS, ETC. THE COST SHALL BE INCLUDED IN THE COST OF THE FITTING OR TEE BEING INSTALLED.

11. EXISTING UTILITY LOCATIONS (JULIE REQUESTS):
    A. THREE (3) WORKING DAYS PRIOR TO BEGINNING THE WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT JULIE TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION.
    B. ALL UTILITIES ARE TO BE MAINTAINED IN SERVICE AT ALL TIMES UNLESS PRIOR WRITTEN AUTHORIZATION IS GRANTED FROM THE RESPECTIVE UTILITY FOR A PLANNED SERVICE INTERRUPTION NECESSARY FOR THE COMPLETION OF THIS WORK.
    C. UTILITIES AND OBSTRUCTIONS SHOWN ON THE PLANS WERE DERIVED FROM THE BEST AVAILABLE INFORMATION THROUGH CONTACT MADE WITH VARIOUS UTILITIES AND AGENCIES KNOWN TO HAVE STRUCTURES IN THE AREA. THE LOCATION MATERIAL AND DIMENSIONS OF THE EXISTING OBSTRUCTIONS ARE BASED ON AVAILABLE RECORDS BUT MUST NOT BE CONSTRUED AS BEING ACCURATE, CORRECT OR COMPLETE. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
    D. ALL STRUCTURES ABOVE OR BELOW GROUND ENCOUNTERED DURING CONSTRUCTION SHALL BE PROPERLY SUPPORTED AND MAINTAINED. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER/ENGINEER OF SUCH STRUCTURES FOR SHIFTING, SUPPORT, TEMPORARY RELOCATION AND PROTECTION WHERE NECESSARY. IF DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL MAKE OR PAY TO HAVE MADE ALL REPAIRS TO THE STRUCTURE TO THE SATISFACTION OF THE OWNER OF THE STRUCTURE. NO EXTRA PAYMENT WILL BE MADE FOR SUCH REPAIRS.

12. UTILITY SEPARATION: WHERE THE PROPOSED WATER MAINS CROSS OVER AND LESS THAN 18-INCHES ABOVE OR UNDER SANITARY/STORM SEWER LINES, THE SEWER SHALL BE REPLACED WITH WATER MAIN QUALITY PIPE FOR A DISTANCE OF 10 FEET ON BOTH SIDES OF THE PROPOSED WATER MAIN WHEN ORDERED IN WRITING BY THE ENGINEER. FOR NON-PARALLEL STORM SEWER CROSSINGS, CONTRACTOR IS PERMITTED TO UTILIZE REINFORCED CONCRETE PIPE WITH JOINT FLEXIBLE GASKET JOINT MEETING ASTM C361 OR ASTM C443.

13. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL MAINTAIN IN SERVICE ALL EXISTING WATER MAINS, SANITARY SEWERS, STORM SEWERS, CULVERTS, DITCHES, DRAINS, MANHOLES, AND CATCH BASINS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, BYPASS PUMPING. REFER ALSO TO THE DRAINAGE SHEETS FOR ADDITIONAL DETAIL.

14. REFER TO SPECIAL PROVISIONS FOR WATER MAIN RECORD DRAWING AND SURVEY REQUIREMENTS WHICH INCLUDES PROVIDING AS-BUILT WATER MAIN FACILITY INFORMATION TO THE CITY IN AN ELECTRONIC FORMAT COMPATIBLE WITH THE CITY'S GIS.

15. ALL FRAMES, GRATES, LIDS, FIRE HYDRANTS AND BOXES SCHEDULED TO BE REMOVED FROM EXISTING STRUCTURES SHALL REMAIN THE PROPERTY OF THE CITY, AND ITEMS DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE. THE COST OF SALVAGING EXISTING FRAMES, GRATES, LIDS, HYDRANTS OR BOXES AND/OR STOCKPILING THEM ON THE JOB SITE FOR PICK-UP BY THE CITY OR DELIVERY TO THE CITY YARD SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING REMOVED, ABANDONED, OR FILLED. ANY REJECTED ITEMS SHALL BE DISPOSED OF BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

16. ALL REFERENCES IN THE DRAWINGS AND SPECIAL PROVISIONS TO STANDARDS (E.G. AWWA, ASTM, IDOT, ETC.) SHALL BE ASSUMED TO BE THE LATEST VERSION/ADDITION OF THE STANDARD BEING REFERENCED.

17. UNLESS OTHERWISE SPECIFIED HEREIN, PERFORM ALL WORK IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION IN ILLINOIS AND THE CITY OF DECATUR STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION (INCLUDING CONSTRUCTION DETAILS), LATEST EDITIONS. CITY OF DECATUR STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION (INCLUDING CONSTRUCTION DETAILS) CAN BE PROVIDED UPON REQUEST.

18. WHETHER TEMPORARY OR PERMANENT, ALL VALVES, PIPING, FITTINGS, SLEEVES, AND APPURTENANCES SHALL HAVE A MINIMUM RATING OF 150 PSI.

19. JACKING PITS TO BE DESIGNED BY THE CONTRACTOR. LIMITS SHOWN ARE APPROXIMATE.

20. THE FOLLOWING PAY ITEMS ARE INCLUDED IN THE SPECIAL PROVISIONS, BUT ARE NOT CURRENTLY SHOWN IN THE WATER MAIN RELOCATION PLANS:
    A. PRESSURE CONNECTION, 16" X 16", 12" X 12", 16" X 6" (1 EACH FOR THE PAY ITEMS LISTED)
    B. WATER MAIN LINE STOP, 6", 8", 12" (1 EACH FOR THE PAY ITEMS LISTED)
    C. REMOVE AND RELOCATE WATER MAIN, 6", 8", 12", 16", 24", 30" (20 FT FOR EACH PAY ITEM LISTED)
    D. WATER SERVICE LINE RELOCATED (20 FT)
    E. FIRE HYDRANT EXTENSION (10 FT)
    F. MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID (2 EACH)
    G. SANITARY SEWER REMOVAL AND REPLACEMENT 8" (390 FT)
    H. SPECIAL EXCAVATION (SHOWN IN PLANS BUT AN ADDITIONAL 10 CY IS INCLUDED IN THE SOQ)
    I. SANITARY SERVICE TO BE ADJUSTED, 1 EACH
    THESE ITEMS SHALL ONLY BE USED TO ADDRESS UNFORESEEN CONDITIONS WHEN ORDERED BY THE ENGINEER IN WRITING.

21. THE CONTRACTOR'S ATTENTION IS CALLED TO SECTION 106 OF IDOT'S STANDARD SPECIFICATION, SPECIFICALLY THE DOMESTIC IRON AND STEEL REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO FOLLOW ALL IDOT REQUIREMENTS AND SPECIFICATIONS REGARDING DOMESTIC PRODUCTION, FABRICATION, ETC.

WATER MAIN & SANITARY SEWER SYMBOLS

- WV — PROPOSED WATER VALVE WITH BOX
- WV WV — PROPOSED WATER VALVE AND BYPASS WITH BOXES
- LS — PROPOSED LINE STOP
- AV — PROPOSED FIRE HYDRANT AUXILIARY VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED COMMUNICATIONS VAULT
- W — PROPOSED WATER MAIN
- W — PROPOSED WATER MAIN IN STEEL CASING PIPE
- W — UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- PROPOSED UNDERGROUND CONDUIT
- PROPOSED WATER MAIN FITTING, REDUCER
- PROPOSED CAP OR PLUG FOR EXISTING WATER MAIN
- PROPOSED WATER MAIN FITTING, TEE
- PROPOSED WATER MAIN FITTING, 90 DEGREE BEND
- PROPOSED WATER MAIN FITTING, 45 DEGREE BEND
- PROPOSED WATER MAIN FITTING, 22.5 DEGREE BEND
- PROPOSED WATER MAIN FITTING, 11.25 DEGREE BEND
- PROPOSED WATER MAIN FITTING, CAP OR PLUG
- PROPOSED WATER MAIN FITTING, SOLID SLEEVE

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RB	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
GENERAL NOTES AND SYMBOLS

SCALE: NTS | SHEET 1 OF 31 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	513
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College(900)-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_SHT_01_General_Notes_Watermain.dgn

PROPOSED STRUCTURES							
ROAD	SHEET	STRUCTURE TYPE	WM STATION	ROADWAY STATION OFFSET	IDOT PAY ITEM NAME	EXST. GROUND EL. (FT.)	PR. GROUND EL. (FT.)
BRUSH COLLEGE	5	WATER VALVE AND BOX	10+04	47+10, RT 2.3	PRESSURE CONNECTION 24" X 24"	-	-
	5				VALVE BOX*	653.0	653.1
	5				VALVE BOXES TO BE ADJUSTED*	653.0	653.1
	5	WATER VALVE AND BOX	13+52, RT 5.1	49+68, RT 84.7	WATER VALVES 24"	-	-
	5				VALVE BOX*	673.1	-
	5				VALVE BOXES TO BE ADJUSTED*	673.1	-
	5	FIRE HYDRANT	13+45, RT 11.8	49+61, RT 77.0	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	673.0	-
	6	WATER VALVE AND BOX	16+08, RT 7.5	52+22, RT 103.1	WATER VALVES 8"	-	-
	6				VALVE BOX	674.9	674.7
	6				VALVE BOXES TO BE ADJUSTED	674.9	674.7
	6	FIRE HYDRANT	16+09, RT 49.4	52+16, RT 144.3	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	675.6	-
	7	WATER VALVE AND BOX	24+25	60+18, RT 118.8	WATER VALVES 24"	-	-
	7				VALVE BOX*	676.4	675.1
	7				VALVE BOXES TO BE ADJUSTED*	676.4	675.1
	7	FIRE HYDRANT	24+68, RT 27.9	60+76, RT 124.1	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	675.6	675.1
	7	COMMUNICATIONS VAULT	24+32, LT 4.6	60.22, RT 112.7	COMMUNICATIONS VAULT	676.4	674.9
	7	COMMUNICATIONS VAULT	26+61, LT 1.6	62+47, RT 43.0	COMMUNICATIONS VAULT	675.1	-
	9	WATER VALVE AND BOX	29+15	64+98, RT 61.6	WATER VALVES 30"	-	-
	9				VALVE BOX*	674.2	-
	9				VALVE BOXES TO BE ADJUSTED*	674.2	-
	9	FIRE HYDRANT	29+32, LT 18.0	65+24, RT 59.6	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	673.9	-
	9	WATER VALVE AND BOX	30+54, RT 3.6	66+36, RT 82.0	WATER VALVES 8"	-	-
	9				VALVE BOX	670.2	-
	9				VALVE BOXES TO BE ADJUSTED	670.2	-
	9	COMMUNICATIONS VAULT	30+53, LT 2.2	66+34, RT 76.5	COMMUNICATIONS VAULT	670.3	-
	10	WATER VALVE AND BOX	34+00, RT 3.6	69+54, 31.0	WATER VALVES 12"	-	-
	10				VALVE BOX	672.0	673.2
	10				VALVE BOXES TO BE ADJUSTED	672.0	673.2
	10	FIRE HYDRANT	34+22, RT 24.6	69+76, RT 43.0	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	671.7	-
	10	WATER VALVE AND BOX	34+45, RT 5.3	69+95, RT 15.5	WATER VALVES 16"	-	-
	10				VALVE BOX	672.2	672.7
	10				VALVE BOXES TO BE ADJUSTED	672.2	672.7
	10	WATER VALVE AND BOX	34+78	69+89, LT 17.4	PRESSURE CONNECTION 24" X 24"	-	-
	10				VALVE BOX*	672.3	672.6
	10				VALVE BOXES TO BE ADJUSTED*	672.3	672.6
JUG HANDLE	6, 18	WATER VALVE AND BOX	40+08	302+04, LT 128.8	WATER VALVES 8"	-	-
	6, 18				VALVE BOX	675.3	675.4
	6, 18				VALVE BOXES TO BE ADJUSTED	675.3	675.4
	18	FIRE HYDRANT	43+44, LT 7.2	304+59, RT 112.8	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	678.1	678.2
FARIES	7, 13	WATER VALVE AND BOX	50+41	61+33, RT 96.6	WATER VALVES 16"	-	-
	7, 13				VALVE BOX	675.2	675.8
	7, 13				VALVE BOXES TO BE ADJUSTED	675.2	675.8
	7, 13	WATER VALVE AND BOX	61+66	61+38, LT 104.3	WATER VALVES 16"	-	-
	7, 13				VALVE BOX	675.3	675.2
	7, 13				VALVE BOXES TO BE ADJUSTED	675.3	675.2
	14	FIRE HYDRANT	-	216+12, LT 43.7	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	673.6	673.2
	17	FIRE HYDRANT	-	231+36, LT 24.4	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	661.3	660.6
LOGAN	19	N/A					
JAMES	20	N/A					
HARRISON	21-25	N/A					
CEMETERY	25	N/A					

* PROPOSED STRUCTURE HAS TWO VALVE BOXES, REFER ALSO TO NOTE 1.

NOTES

1. FOR VALVES WITH TWO (2) BOXES (I.E. VALVES WITH A BYPASS) IN THE PROPOSED STRUCTURE SCHEDULE. THE PROPOSED GROUND ELEVATION LISTED IS FOR THE BYPASS VALVE BOX. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND CONFIRMING THE FINAL ELEVATION OF THE VALVE BOX FOR THE MAIN VALVE. UNLESS OTHERWISE NOTED, NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY VALVE BOXES TO BE ADJUSTED.
2. FOR FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX IN THE PROPOSED STRUCTURE SCHEDULE, THE PROPOSED GROUND ELEVATION LISTED IS FOR THE HYDRANT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND CONFIRMING THE FINAL GROUND ELEVATION FOR THE PROPOSED AUXILIARY VALVE. UNLESS OTHERWISE NOTED, NO ADDITIONAL PAYMENT WILL BE MADE FOR ANY VALVE BOXES TO BE ADJUSTED.

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USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RB	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
STRUCTURE SCHEDULE

SCALE: NTS | SHEET 2 OF 31 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	514
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

EXISTING STRUCTURES

ROAD	SHEET	STRUCTURE TYPE	WM STATION	ROADWAY STATION OFFSET	IDOT PAY ITEM NAME	EXST. GROUND EL. (FT.)	PR. GROUND EL. (FT.)
BRUSH COLLEGE	6	FIRE HYDRANT	-	57+10, RT 37.8	FIRE HYDRANT TO BE REMOVED & SALVAGED	674.9	
	7	FIRE HYDRANT	-	62+38, LT 73.3	FIRE HYDRANT TO BE REMOVED & SALVAGED	673.9	
	10	VALVE BOX	-	70+63, LT 22.8	VALVE BOXES TO BE ADJUSTED	671.9	671.6
	11	VALVE BOX	-	73+64, RT 20.3	VALVE BOXES TO BE ADJUSTED	672.0	672.3
	11	VALVE BOX	-	75+41, LT 24.2	VALVE BOXES TO BE ADJUSTED	671.6	671.7
JUG HANDLE	18	N/A	-				
FARIES	14	FIRE HYDRANT	-	215+89, RT 17.5	FIRE HYDRANT TO BE REMOVED & SALVAGED	673.5	-
	15	VALVE BOX	-	221+30, LT 6.9	VALVE BOXES TO BE ADJUSTED	668.3	668.6
	15	VALVE BOX	-	221+62, LT 5.4	VALVE BOXES TO BE ADJUSTED	668.0	668.8
	15	VALVE BOX	-	221+68, LT 9.6	VALVE BOXES TO BE ADJUSTED	668.0	668.2
	15	VALVE VAULT		221+68, LT 4.7	VALVE VAULTS TO BE ADJUSTED	667.6	668.7
	15	MANHOLE	-	221+70, RT 3.5	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	668.7	668.3
	15	FIRE HYDRANT	-	221+61, RT 36.2	FIRE HYDRANTS TO BE REMOVED AND REPLACED	668.8	668.2
	16	VALVE BOX	-	225+47, LT 5.8	VALVE BOXES TO BE ADJUSTED	659.5	660.7
	16	FIRE HYDRANT	-	225+46, RT 31.8	FIRE HYDRANTS TO BE REMOVED AND REPLACED	662.0	660.7
	16	MANHOLE	-	225+64, LT 0.1	SANITARY MANHOLES TO BE ADJUSTED	659.2	660.9
	16	MANHOLE	-	228+14, RT 69.1	SANITARY MANHOLES TO BE ADJUSTED	647.5	648.8
	16	MANHOLE	-	225+79, RT 34.4	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	654.0	660.0
	16	MANHOLE	-	229+75, RT 41.2	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID	645.1	657.8
	17	VALVE BOX	-	232+22, RT 2.4	VALVE BOXES TO BE ADJUSTED	662.5	662.6
	17	VALVE VAULT	-	232+22, LT 2.8	VALVE VAULTS TO BE ADJUSTED	662.5	662.6
	17	FIRE HYDRANT	-	232+16, LT 22.7	FIRE HYDRANT TO BE REMOVED & SALVAGED	663.5	-
	17	VALVE BOX	-	234+71, LT 1.7	VALVE BOXES TO BE ADJUSTED	665.7	666.1
LOGAN	19	N/A					
JAMES	20	N/A					
W. HARRISON	21-22	N/A	-				
E. HARRISON	10	FIRE HYDRANT	-	700.47, LT 43.7	FIRE HYDRANT TO BE REMOVED & SALVAGED	671.7	-
CEMETERY	25	N/A					

EXISTING STRUCTURES TO BE REMOVED OR ABANDONED

ROAD	SHEET	STRUCTURE TYPE	ROADWAY STATION OFFSET	IDOT PAY ITEM NAME	EX. GROUND EL. (FT.)
BRUSH COLLEGE	6	VALVE VAULT	51+77, LT 35.2	VALVE VAULTS TO BE ABANDONED	671.9
	6	VALVE VAULT	54+55, LT 1.8	VALVE VAULTS TO BE ABANDONED	674.1
	6	VALVE BOX	52+22, RT 7.6	WATER VALVE BOXES TO BE ABANDONED	673.3
	6	VALVE BOX	54+55, LT 3.5	WATER VALVE BOXES TO BE ABANDONED	674.2
	6	VALVE BOX	57.14, RT 11.9	WATER VALVE BOXES TO BE ABANDONED	673.9
	7	MANHOLE	58+89, RT 45.5	SANITARY MANHOLES TO BE REMOVED	675.8
	7	VALVE BOX	60+47, RT 5.7	VALVE BOXES TO BE REMOVED	674.1
	7	VALVE BOX	62+43, RT 44.3	VALVE BOXES TO BE REMOVED	675.1
	7	VALVE VAULT	63+02, RT 43.8	VAULTS TO BE REMOVED	674.8
	7, 13	VALVE BOX	61+22, RT 45.0	WATER VALVE BOXES TO BE ABANDONED	674.8
	7, 13	VALVE BOX	61+29, RT 54.6	WATER VALVE BOXES TO BE ABANDONED	674.9
	8	VALVE BOX	65+85, RT 0.0	WATER VALVE BOXES TO BE ABANDONED	673.7
	8	VALVE BOX	66+31, RT 32.2	WATER VALVE BOXES TO BE ABANDONED	673.4
	9	VALVE VAULT	69+65, RT 20.0	VALVE VAULTS TO BE ABANDONED	672.1
	9	VALVE BOX	69+54, RT 19.9	WATER VALVE BOXES TO BE ABANDONED	672.1
	9	VALVE BOX	69+65, RT 4.4	WATER VALVE BOXES TO BE ABANDONED	672.2
JUG HANDLE	18	MANHOLE	301+66, RT 53.5	SANITARY MANHOLES TO BE REMOVED	685.1
FARIES	13	VALVE BOX	209+02, RT 3.4	VALVE BOXES TO BE REMOVED	674.4
	14	MANHOLE	215+22, RT 62.9	SANITARY MANHOLES TO BE REMOVED	677.4
LOGAN	19	N/A			
JAMES	20	N/A			
W. HARRISON	21-22	N/A			
E. HARRISON	23-24	N/A			
CEMETERY	25	N/A			

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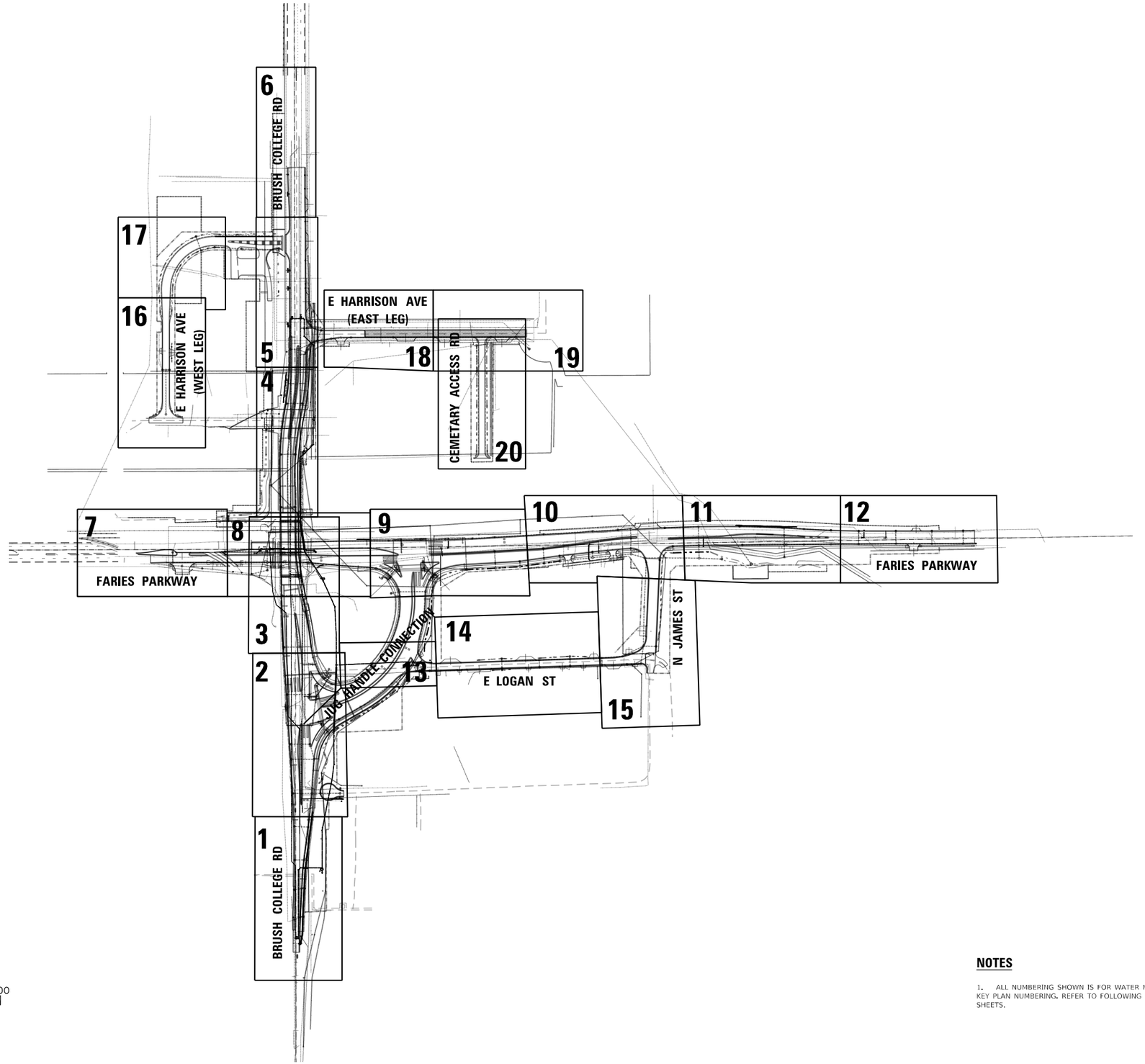
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
STRUCTURE SCHEDULE

SCALE: NTS | SHEET 3 OF 31 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	515
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



NOTES

1. ALL NUMBERING SHOWN IS FOR WATER MAIN KEY PLAN NUMBERING. REFER TO FOLLOWING SHEETS.

MODEL: Default
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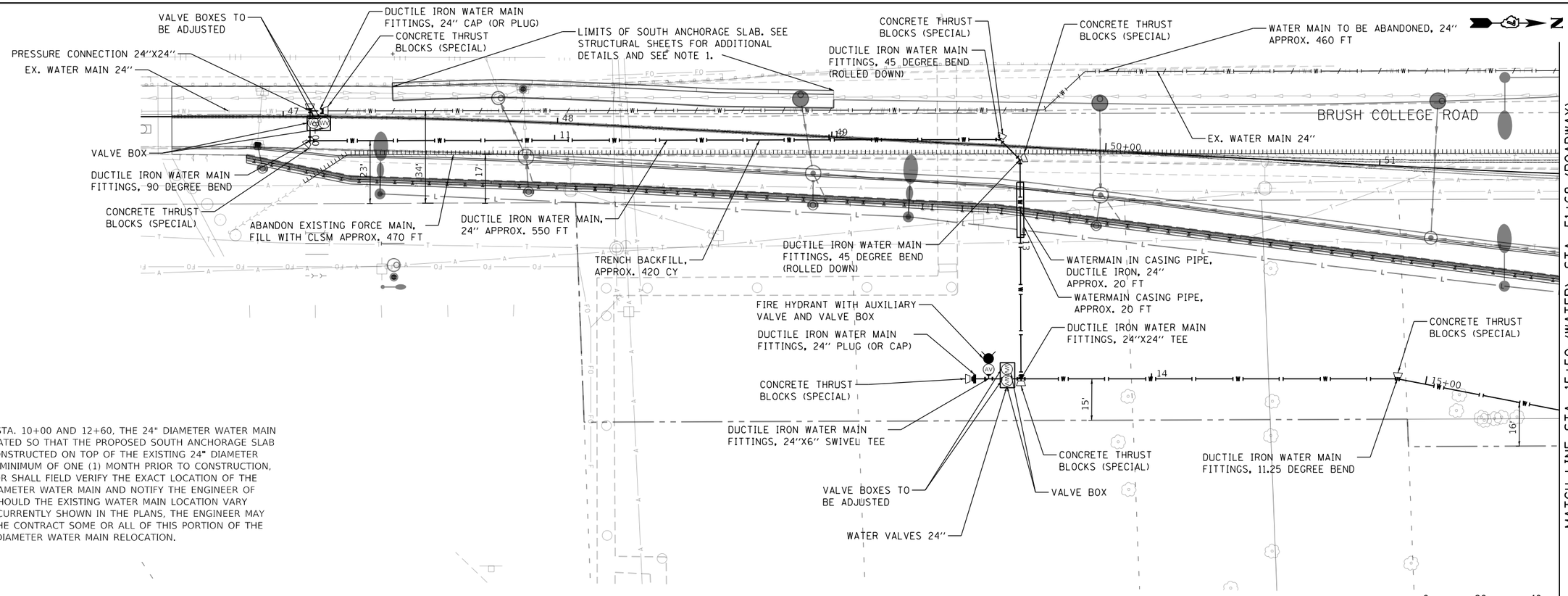
USER NAME = brooke.henry	DESIGNED - BNH	REVISED - XXX	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS WATER MAIN KEY PLAN MAP	
	DRAWN - BNH	REVISED - XXX			
PLOT SCALE = 400.0001 ' / in.	CHECKED - PSA	REVISED - XXX		SCALE: 1"=200' SHEET 4 OF 31 SHEETS STA. N/A TO STA. N/A	
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -			

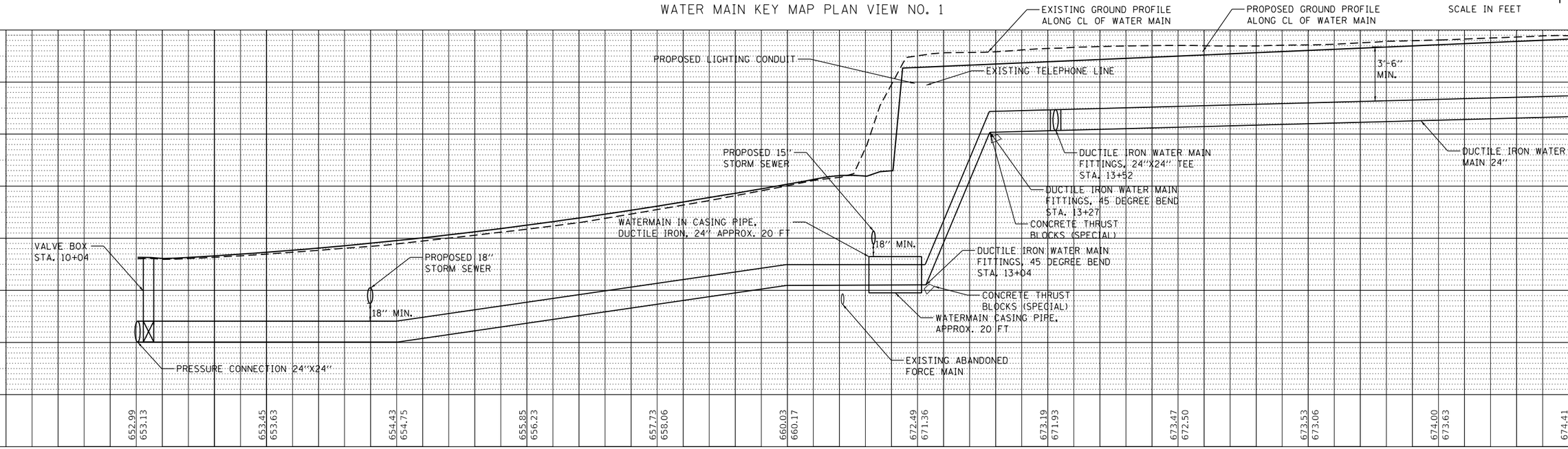
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	516
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



WATER MAIN KEY MAP PLAN VIEW NO. 1

NOTES

1. BETWEEN STA. 10+00 AND 12+60, THE 24" DIAMETER WATER MAIN IS BEING RELOCATED SO THAT THE PROPOSED SOUTH ANCHORAGE SLAB WILL NOT BE CONSTRUCTED ON TOP OF THE EXISTING 24" DIAMETER WATER MAIN. A MINIMUM OF ONE (1) MONTH PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF THE EXISTING 24" DIAMETER WATER MAIN AND NOTIFY THE ENGINEER OF THE RESULTS. SHOULD THE EXISTING WATER MAIN LOCATION VARY FROM WHAT IS CURRENTLY SHOWN IN THE PLANS, THE ENGINEER MAY DELETE FROM THE CONTRACT SOME OR ALL OF THIS PORTION OF THE PROPOSED 24" DIAMETER WATER MAIN RELOCATION.



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PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -	
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN AND PROFILE

SCALE: 1"=20' | SHEET 5 OF 31 SHEETS | STA. 10+00 TO STA. 15+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	517
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NAIDocuments\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_01

MATCH LINE STA. 15+50 (WATER) STA. 51+68 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 1

MATCH LINE STA. 21+50 (WATER) STA. 57+53 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 3

VALVE VAULTS TO BE ABANDONED

ABANDON EXISTING FORCE MAIN, FILL WITH CLSM APPROX. 615 FT

WATER VALVE BOXES TO BE ABANDONED

VALVE VAULTS TO BE ABANDONED

BRUSH COLLEGE ROAD

WATER MAIN TO BE ABANDONED, 24" APPROX. 600 FT

WATER MAIN TO BE ABANDONED, 12" APPROX. 600 FT

WATER VALVE BOXES TO BE ABANDONED

WATER MAIN TO BE ABANDONED, 6" APPROX. 95 FT

WATER VALVE BOXES TO BE ABANDONED

WATER MAIN TO BE ABANDONED, 6" APPROX. 52 FT

FIRE HYDRANTS TO BE REMOVED AND SALVAGED

DUCTILE IRON WATER MAIN FITTINGS, 11.25 DEGREE BEND

DUCTILE IRON WATER MAIN FITTINGS, 24"X8" TEE

DUCTILE IRON WATER MAIN FITTINGS, 24"X8" TEE

SPECIAL EXCAVATION, 3 CY

CONCRETE THRUST BLOCKS (SPECIAL)

TRENCH BACKFILL, APPROX. 440 CY

SPECIAL EXCAVATION, 3 CY

SPECIAL EXCAVATION, 3 CY

VALVE BOXES TO BE ADJUSTED

DUCTILE IRON WATER MAIN 24", APPROX. 365 FT

DUCTILE IRON WATER MAIN 8",APPROX. 55 FT

WATER VALVES 8"

VALVE BOX

WATER MAIN REMOVAL, APPROX. 60 FT

CONCRETE THRUST BLOCKS (SPECIAL)

CONCRETE THRUST BLOCKS (SPECIAL)

DUCTILE IRON WATER MAIN FITTINGS, 8"X6" SWIVEL TEE

WATERMAIN CASING PIPE, APPROX. 235 FT

WATERMAIN IN CASING PIPE, DUCTILE IRON, 24" APPROX. 235 FT

0 20 40
SCALE IN FEET

WATER VALVES 8"

VALVE BOX

VALVE BOXES TO BE ADJUSTED

DUCTILE IRON WATER MAIN 8", APPROX. 33 FT

FIRE HYDRANT WITH AUXILARY VALVE AND VALVE BOX

DUCTILE IRON WATER MAIN FITTINGS, 8" CAP (OR PLUG)

CONCRETE THRUST BLOCKS (SPECIAL)

WATER MAIN KEY MAP PLAN VIEW NO. 2

SEE WATER MAIN KEY MAP PLAN VIEW NO. 13

PROPOSED GROUND PROFILE ALONG CL OF WATER MAIN

EXISTING GROUND PROFILE ALONG CL OF WATER MAIN

PROPOSED 15" STORM SEWER

PROPOSED LIGHTING CONDUIT

PROPOSED LIGHTING CONDUIT

EXST. 6" WATER MAIN TO BE ABANDONED

EXST. GAS LINE

PROPOSED 12" STORM SEWER

PROPOSED 12" STORM SEWER

EXST. GAS LINE

EXST. CULVERT

18" MIN.

3'-6" MIN.

PROPOSED MSE WALL FOUNDATION, SEE STRUCTURAL SHEETS

DUCTILE IRON WATER MAIN FITTINGS, 24"X8" TEE STA. 16+07

WATERMAIN CASING PIPE, APPROX. 235 FT

WATERMAIN IN CASING PIPE, DUCTILE IRON, 24" APPROX. 235 FT

DUCTILE IRON WATER MAIN FITTINGS, 24"X8" TEE STA. 21+01

685 680 675 670 665 660 655

674.41 674.20 | 674.60 674.61 | 675.29 674.81 | 676.09 676.19 | 675.93 676.02 | 675.67 675.85 | 675.48 675.14 | 674.95 685.37 | 675.30 686.15 | 675.59 686.31 | 675.05 686.39 | 675.22 675.59 | 675.69 675.75

15+50 16+00 16+50 17+00 17+50 18+00 18+50 19+00 19+50 20+00 20+50 21+00 21+50

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CAUD FILE NAME, NOTE BOOK, NO.

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BM. NOTED, STRUCTURE NOTATIONS CHKD

BY, DATE

MODEL: Default
FILE NAME: pw:\\aecom-na-sw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_02

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN AND PROFILE

SCALE: 1"=20' | SHEET 6 OF 31 SHEETS | STA. 15+50 TO STA. 21+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	518
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

NOTES

1. FIBER OPTIC CONDUIT FOR FUTURE USE IS TO BE INSTALLED WITH A MINIMUM 20" BENDING RADIUS. CONDUIT TERMINATING IN COMMUNICATION VAULTS SHALL BE CAPPED FOR FUTURE USE.
2. CONDUIT UNDER FARIES PARKWAY SHALL BE HDPE SCHEDULE 80.
3. COMMUNICATIONS VAULTS AND INSTALLED CONDUIT SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. SEE WATER MAIN DETAILS SHEETS FOR COMMUNICATIONS VAULT DETAIL.
4. FIBER OPTIC CONDUIT SHALL BE INSTALLED WITHIN 48" STEEL CASING.
5. COMMUNICATIONS VAULT AT WATER MAIN STA. 24+30 SHALL NOT BE INSTALLED UNTIL THE PROPOSED FINAL GRADE IS ESTABLISHED AND AS APPROVED BY THE ENGINEER.

MATCH LINE STA. 21+50 (WATER), STA. 57+53 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 2

MATCH LINE STA. 27+50 (WATER), STA. 63+35 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 4

ABANDON EXISTING FORCE MAIN, FILL WITH CLSM APPROX. 415 FT
REMOVAL AND DISPOSAL OF EXISTING FORCE MAIN, APPROX. 25 FT
ABANDON EXISTING FORCE MAIN, FILL WITH CLSM APPROX. 145 FT
WATER MAIN TO BE ABANDONED, 24" APPROX. 500 FT
WATER MAIN TO BE ABANDONED, 12" APPROX. 325 FT
SANITARY MANHOLES TO BE REMOVED
SPECIAL EXCAVATION, 3 CY
DUCTILE IRON WATER MAIN FITTINGS, 22.5 DEGREE BEND
DUCTILE IRON WATER MAIN 24", APPROX. 425 FT
SEE WATER MAIN PROFILE ON SHEET 7
SPECIAL EXCAVATION, 3 CY
SPECIAL EXCAVATION, 3 CY
CONCRETE THRUST BLOCKS (SPECIAL)
VALVE BOXES TO BE REMOVED
WATER MAIN REMOVAL, APPROX. 40 FT
WATER MAIN REMOVAL, APPROX. 40 FT
WATER MAIN REMOVAL, APPROX. 40 FT
DUCTILE IRON WATER MAIN FITTINGS, 24"X6" SWIVEL TEE
UNDERGROUND CONDUIT, HDPE, 4" DIA., APPROX. 75 FT
COMMUNICATIONS VAULT
DUCTILE IRON WATER MAIN FITTINGS, 11.25 DEGREE BEND
DUCTILE IRON WATER MAIN FITTINGS, 24" SOLID SLEEVE
VALVE BOXES TO BE ADJUSTED
WATER VALVES 24"
VALVE BOX
CONCRETE THRUST BLOCKS (SPECIAL)
APPROXIMATE LOCATION OF RECEIVING PIT
WATER MAIN TO BE ABANDONED, 16" APPROX. 110 FT
WATER MAIN REMOVAL, APPROX. 30 FT
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 24"X16" TEE
WATER VALVE BOXES TO BE ABANDONED
WATER VALVE BOXES TO BE ABANDONED
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 22.5 DEGREE BEND
BACKFILL, APPROX. 20 CY
DUCTILE IRON WATER MAIN, 6" APPROX. 25 FT
FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX
TRENCH BACKFILL, APPROX. 650 CY
DUCTILE IRON WATER MAIN FITTINGS, 22.5 DEGREE BEND
SEE WATER MAIN KEY MAP PLAN VIEW NO. 8 (SHEET 12) FOR 16" WATER MAIN PLAN AND PROFILE
APPROXIMATE LOCATION OF JACKING PIT
FIRE HYDRANTS TO BE REMOVED AND SALVAGED
WATER MAIN TO BE ABANDONED, 6" APPROX. 45 FT
WATER MAIN REMOVAL, APPROX. 80 FT
WATER MAIN REMOVAL, APPROX. 30 FT
APPROXIMATE LOCATION OF JACKING PIT
COMMUNICATIONS VAULT
VALVE BOXES TO BE REMOVED
DUCTILE IRON WATER MAIN FITTINGS, 24"X16" TEE
DUCTILE IRON WATER MAIN FITTINGS, 30"X24" REDUCER
UNDERGROUND CONDUIT, HDPE, SCH. 80, 4" DIA., APPROX. 85 FT
APPROXIMATE LOCATION OF RECEIVING PIT
CONCRETE THRUST BLOCKS (SPECIAL)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 8 (SHEET 12) FOR 16" WATER MAIN PLAN AND PROFILE
UNDERGROUND CONDUIT, HDPE, SCH. 80, 4" DIA., APPROX. 94 FT SEE NOTE 4
WATER MAIN (WEST OF FIRE HYDRANT) TO BE ABANDONED, 6", APPROX. 70 FT (TO BE DONE BY CITY OF DECATUR)
UNDERGROUND CONDUIT, HDPE, 4" DIA., APPROX. 110 FT
VAULTS TO BE REMOVED
DUCTILE IRON WATER MAIN 30", APPROX. 96 FT
WATER MAIN REMOVAL APPROX. 95 FT
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 22.5 DEGREE BEND
STEEL CASINGS 48", APPROX. 94 FT
WATERMAIN IN CASING PIPE, DUCTILE IRON, 30" APPROX. 94 FT

BRUSH COLLEGE ROAD
FARIES PARKWAY

WATER MAIN KEY MAP PLAN VIEW NO. 3

0 20 40
SCALE IN FEET

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

USER NAME = brooke.henry	DESIGNED - BNH	REVISED -	
	DRAWN - BNH	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -	
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -	

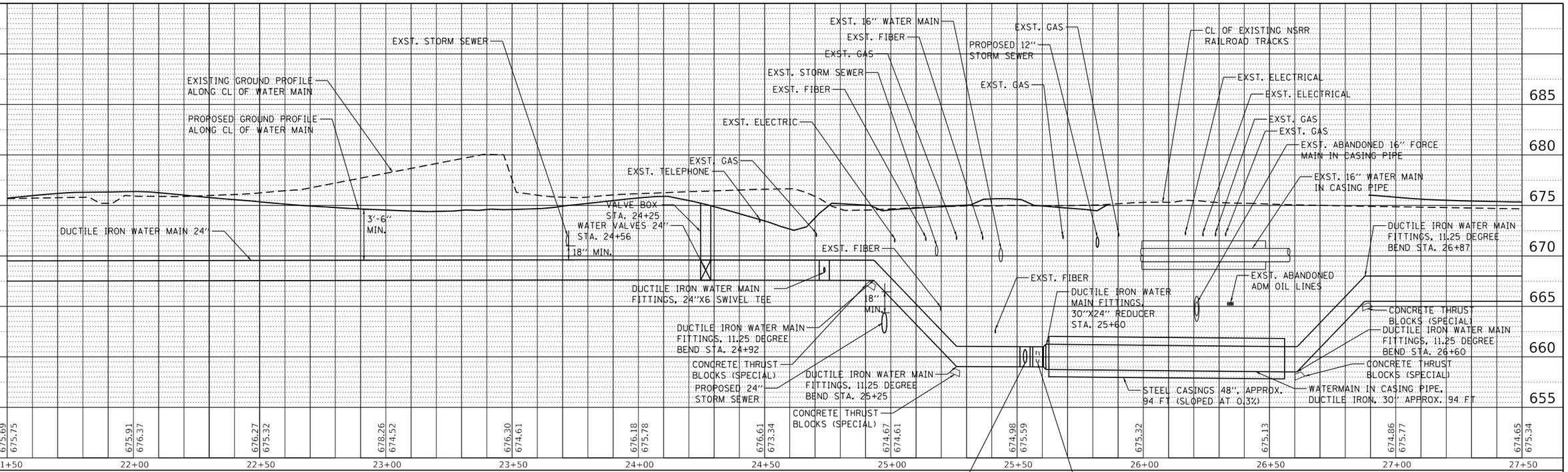
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN

SCALE: 1"=20' | SHEET 7 OF 31 SHEETS | STA. 21+50 TO STA. 27+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	519
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_03



0 20 40

SCALE IN FEET

NOTES

1. FOR CLARITY, PR UNDERGROUND CONDUIT, HDPE, 4" DIA. IS NOT SHOWN IN THE PROFILE. THE CONTRACTORS ATTENTION IS ESPECIALLY CALLED TO THE PROPOSED GRADING CHANGES BETWEEN STA. 24+10 AND 24+75. CONTRACTOR SHALL MAINTAIN A BURIED CONDUIT DEPTH OF 30"-36" (TO THE TOP OF THE CONDUIT) WITH THE PROPOSED GRADING IN THIS AREA.
2. WHERE WATER MAIN IS PROPOSED TO HAVE LESS THAN 42" OF COVER BETWEEN APPROX. STA. 24+55 AND 24+70, CONTRACTOR SHALL INSTALL INSULATION AROUND THE ENTIRE 24-INCH DIA. WATER MAIN, FITTING, AND VALVE. INSULATION SHALL BE FOAMGLAS (WITH PITTWRAP JACKETING) OR ENGINEER APPROVED EQUAL.

PLAN — SURVEYED / PLOTTED / CHECKED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO.

PROFILE — SURVEYED / PLOTTED / CHECKED / H.&V. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO.

BY / DATE

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\906-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_SHT_Profile_Watermain.dgn

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DECATUR, IL 62526
PHONE: (217) 775-6065

USER NAME = brooke.henry	DESIGNED - BNH	REVISED -	
	DRAWN - BNH	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -	
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PROFILE

SCALE: 1"=20' | SHEET 8 OF 31 SHEETS | STA. 21+50 | TO STA. 27+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	520
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

MATCH LINE STA. 27+50 (WATER), STA. 63+35 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 3

MATCH LINE STA. 32+50 (WATER), STA. 68+17 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 5

EX. 6" WATER MAIN
WATER MAIN TO BE ABANDONED, 6" APPROX. 150 FT
DUCTILE IRON WATER MAIN FITTINGS, 8" CAP (OR PLUG)
CONCRETE THRUST BLOCKS (SPECIAL)
WATER VALVE BOXES TO BE ABANDONED
EX. 24" WATER MAIN
E. HARRISON AVE.
EXISTING ABANDONED 8" WATER MAIN
BRUSH COLLEGE ROAD
WATER MAIN TO BE ABANDONED, 24" APPROX. 600 FT
CONCRETE THRUST BLOCKS (SPECIAL)
ABANDON EXISTING FORCE MAIN, FILL WITH CLSM APPROX. 130 FT
UNDERGROUND CONDUIT, HDPE, 4" DIA., APPROX. 320 FT
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
WATER VALVE BOXES TO BE ABANDONED
WATER MAIN TO BE ABANDONED, 16" APPROX. 320 FT
WATER MAIN REMOVAL, APPROX. 150 FT
WATER MAIN REMOVAL, APPROX. 10 FT
WATER MAIN TO BE ABANDONED, 8" APPROX. 55 FT
FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX
TRENCH BACKFILL, APPROX. 310 CY
EX. 16" WATER MAIN
SEE NOTE 1
VALVE BOX
COMMUNICATIONS VAULT
VALVE BOXES TO BE ADJUSTED
WATER VALVES 30" VALVE BOXES TO BE ADJUSTED
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 90 DEGREE BEND
DUCTILE IRON WATER MAIN FITTINGS, 30"X6" TEE
DUCTILE IRON WATER MAIN FITTINGS, 30"X8" TEE
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN 30", APPROX. 500 FT
DUCTILE IRON WATER MAIN FITTINGS, 90 DEGREE BEND
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
DUCTILE IRON WATER MAIN FITTINGS, 8" SOLID SLEEVE NON-PRESSURE CONNECTION TO EXISTING WATER MAIN. SEE NOTE 4
CONCRETE THRUST BLOCKS (SPECIAL)
CONCRETE THRUST BLOCKS (SPECIAL)
WATER VALVES 8"
VALVE BOX

WATER MAIN KEY MAP PLAN VIEW NO. 4

NOTES

1. USE FLUOROELASTOMER (VITON) GASKETS FOR ALL WATER MAIN JOINTS FROM STA. 28+80 TO STA. 32+00.
2. FIBER OPTIC CONDUIT FOR FUTURE USE IS TO BE INSTALLED WITH A MINIMUM 20" BENDING RADIUS. CONDUIT TERMINATING IN COMMUNICATION VAULTS SHALL BE CAPPED FOR FUTURE USE.
3. COMMUNICATIONS VAULTS AND INSTALLED CONDUIT SHALL BE STAKED IN THE FIELD AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. SEE WATER MAIN DETAIL SHEETS FOR COMMUNICATIONS VAULT DETAIL.
4. REFER TO ADVANCE CUSTOMER COORDINATION NOTES ON THE WATER MAIN PHASING PLAN SHEETS.

PROFILE — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R/T. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROPOSED GROUND PROFILE ALONG CL OF WATER MAIN
EXIST. STORM SEWER
EXISTING GROUND PROFILE ALONG CL OF WATER MAIN
EXIST. GAS LINE
EXIST. 16" WATER MAIN TO BE REMOVED
PROPOSED 4" GAS MAIN
EXST. 8" WATER MAIN TO BE ABANDONED
18" MIN.
DUCTILE IRON WATER MAIN 30"
3'-6" MIN.
VALVE BOX STA. 29+15
WATER VALVES 30" STA. 29+15
DUCTILE IRON WATER MAIN FITTINGS, 30"X6" TEE ROTATED UP TO ALLOW RELEASE OF AIR STA. 29+32 AND PROVIDE 3.5' MIN. COVER
DUCTILE IRON WATER MAIN FITTINGS, 30"X8" TEE STA. 30+49
NOTE: FOR CLARITY, PROPOSED 4" DIA. FIBER OPTIC CONDUIT NOT SHOWN IN PROFILE.

680 675 670 665 660 655 650

674.65 675.34 | 674.42 675.47 | 674.22 675.32 | 674.13 674.36 | 674.16 674.12 | 674.05 673.43 | 673.93 672.74 | 673.81 672.05 | 673.69 671.36 | 673.57 670.67 | 673.45 669.98

27+50 28+00 28+50 29+00 29+50 30+00 30+50 31+00 31+50 32+00 32+50

MATCH LINE STA. 32+50 (WATER)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 5

PROFILE — SURVEYED, PLOTTED, ALIGNMENT CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

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FILE NAME: pw:\\aecom-na.pw.bentley.com:AECOM DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_04

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345 EAST ASH AVENUE
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USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN AND PROFILE

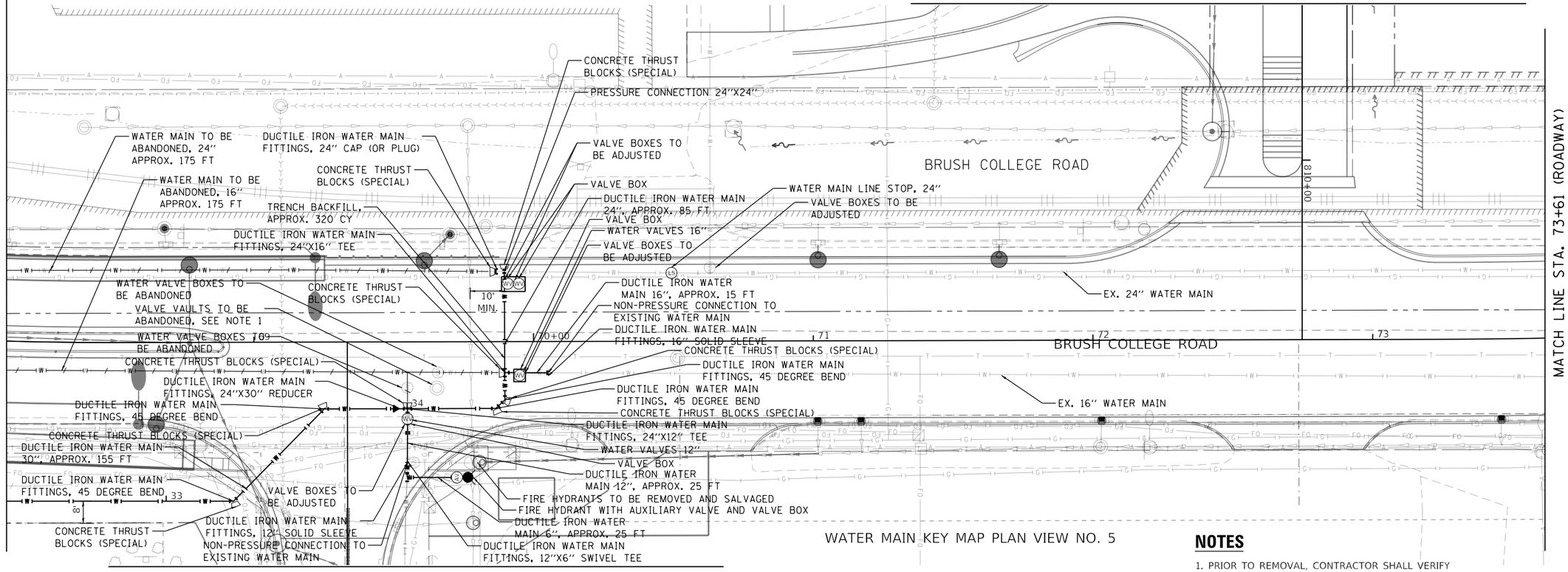
SCALE: 1"=20' | SHEET 9 OF 31 SHEETS | STA. 27+50 TO STA. 32+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	521
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

MATCH LINE SEE WATER MAIN KEY MAP PLAN VIEW NO. 17

MATCH LINE STA. 32+50 (WATER), STA. 68+17 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 4

MATCH LINE STA. 73+61 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 6



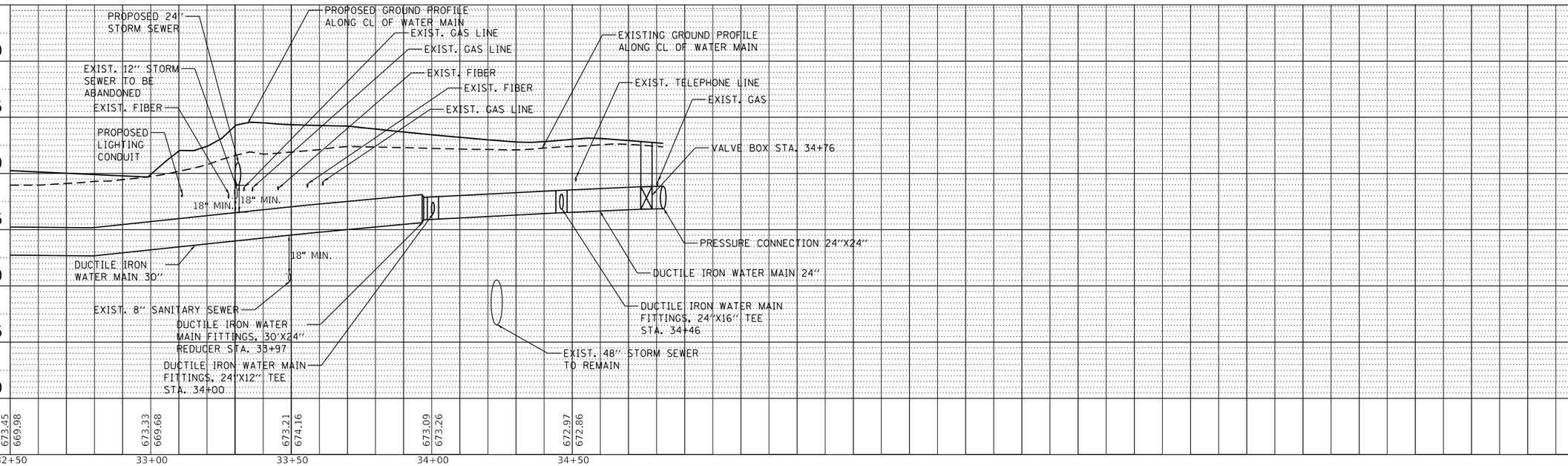
MATCH LINE SEE WATER MAIN KEY MAP PLAN VIEW NO. 18

WATER MAIN KEY MAP PLAN VIEW NO. 5

NOTES

1. PRIOR TO REMOVAL, CONTRACTOR SHALL VERIFY WITH THE ENGINEER THAT THIS VAULT IS CONNECTED TO THE EXISTING WATER MAIN SYSTEM THAT IS PROPOSED TO BE ABANDONED.

0 20 40
SCALE IN FEET



AECOM 345 EAST ASH AVENUE DECATUR, IL 62526 PHONE: (217) 773-6065	USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
		DRAWN - BNH	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
	PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

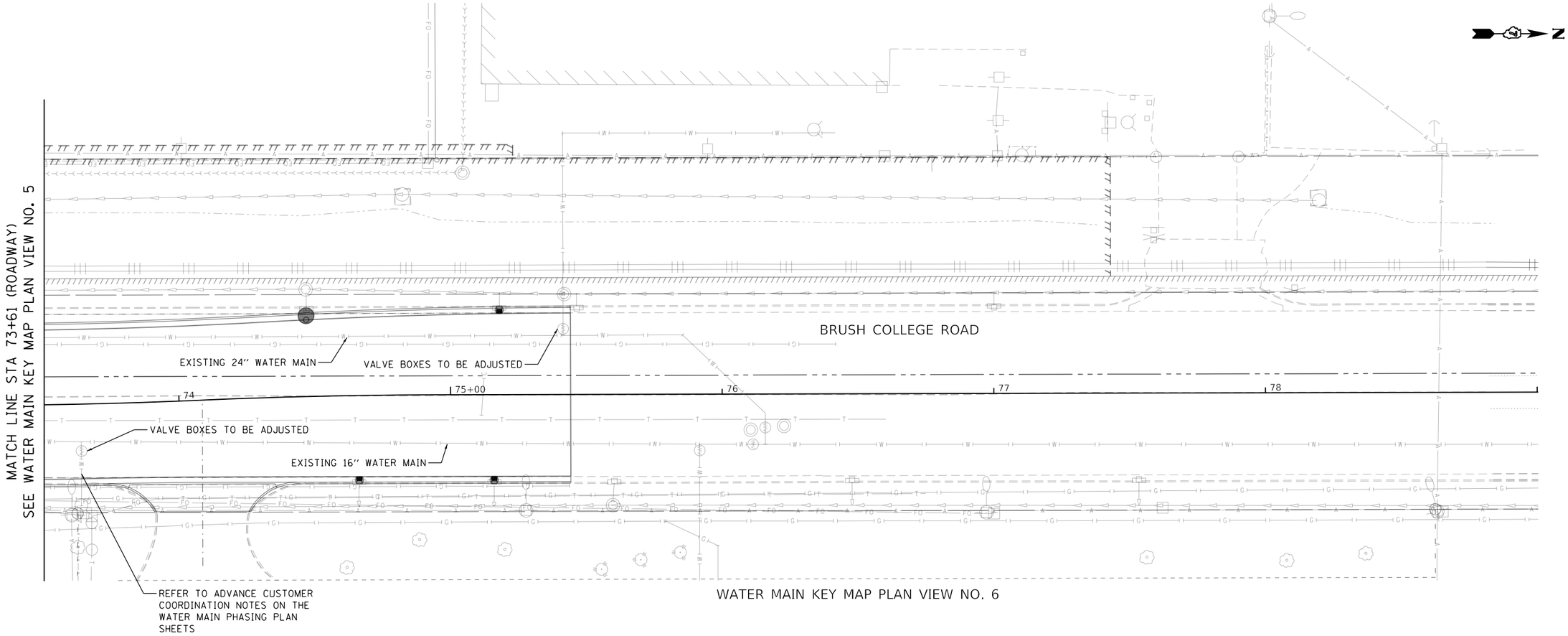
WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN AND PROFILE

SCALE: 1"=20' | SHEET 10 OF 31 SHEETS | STA. 32+50 | TO STA. 32+82

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	522
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CAD FILE NAME, NOTE BOOK, NO.
PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BM, NOTED, STRUCTURE NOTATIONS CHKD
DATE, BY

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_05



WATER MAIN KEY MAP PLAN VIEW NO. 6

0 20 40

SCALE IN FEET

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_06

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345 EAST ASH AVENUE
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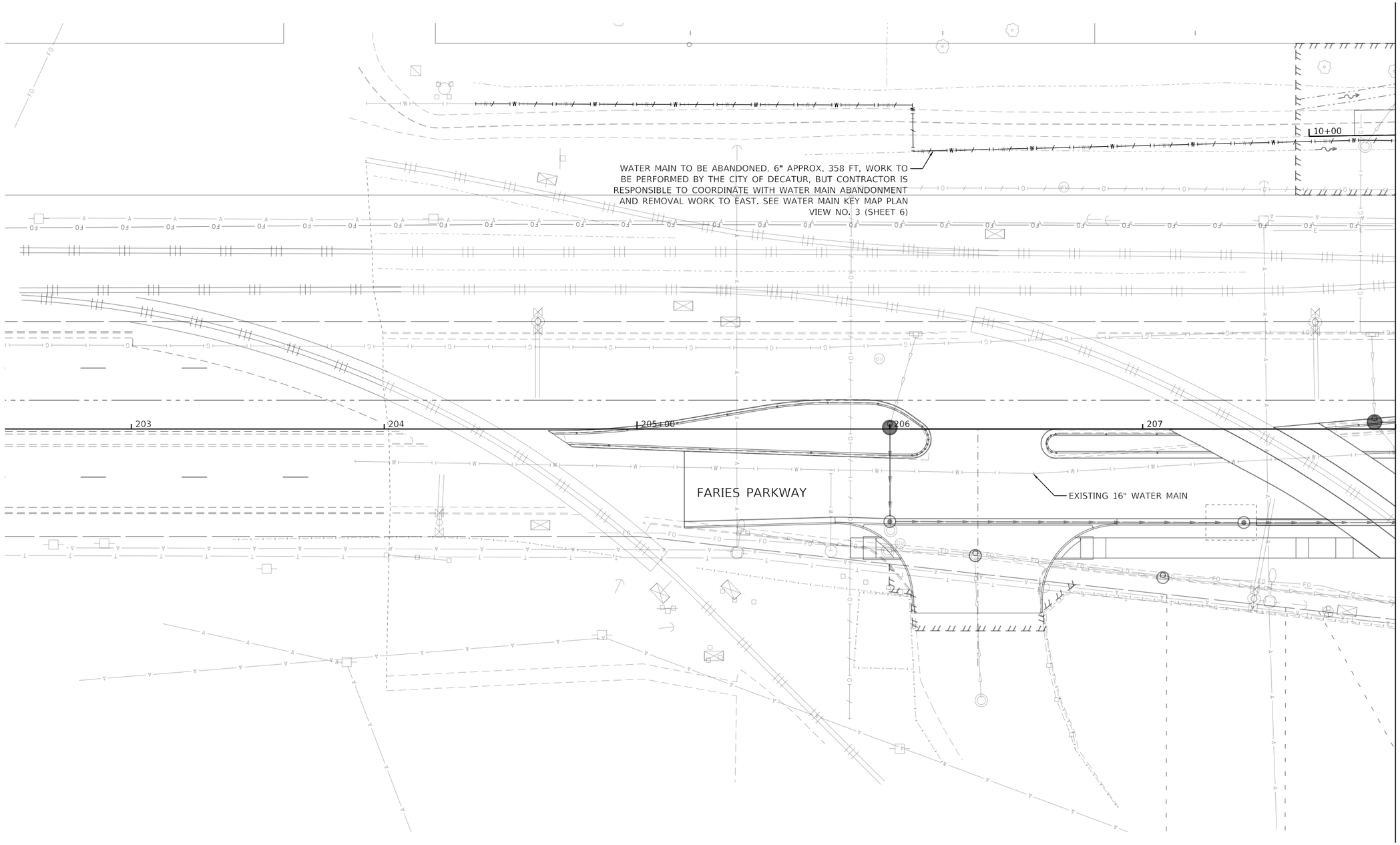
USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN

SCALE: 1"=20' | SHEET 11 OF 31 SHEETS | STA. 73+61 TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	523
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



WATER MAIN KEY MAP PLAN VIEW NO. 7

MODEL: Default
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USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN

SCALE: 1"=20' | SHEET 12 OF 31 SHEETS | STA. 202+50 TO STA. 208+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	524
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

MATCH LINE STA 208+00 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 7

MATCH LINE STA 213+25 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 9

BRUSH COLLEGE ROAD

FARIES PARKWAY

WATERMAIN IN CASING PIPE, DUCTILE IRON, 16" APPROX. 50 FT
STEEL CASINGS 30" APPROX. 50 FT
REMOVAL AND DISPOSAL OF EXISTING FORCE MAIN, APPROX. 15 FT
TRENCH BACKFILL, APPROX. 570 CY
DUCTILE IRON WATER MAIN 16", APPROX. 142 FT
APPROXIMATE LOCATION OF JACKING PIT
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
VALVE BOXES TO BE ADJUSTED
WATER VALVES 16"
VALVE BOX
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
DUCTILE IRON WATER MAIN FITTINGS, 16" SOLID SLEEVE
WATER MAIN LINE STOP, 16"
NON-PRESSURE CONNECTION TO EXISTING WATER MAIN
VALVE BOXES TO BE REMOVED
CONCRETE THRUST BLOCKS (SPECIAL)
WATER MAIN TO BE ABANDONED, 16" APPROX. 88 FT
APPROXIMATE LOCATION OF RECEIVING PIT
SEE WATER MAIN KEY MAP PLAN VIEW NO. 3 (SHEET 6) FOR 6" WATER MAIN PLAN
DUCTILE IRON WATER MAIN FITTINGS, 11.25 DEGREE BEND
CONCRETE THRUST BLOCKS (SPECIAL)
WATER VALVE BOXES TO BE ABANDONED
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 16" CAP (OR PLUG)
WATER MAIN REMOVAL, 16" APPROX. 58 FT
WATER VALVE BOXES TO BE ABANDONED
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 24"X16" TEE
DUCTILE IRON WATER MAIN FITTINGS, 24"X16" TEE
DUCTILE IRON WATER MAIN FITTINGS, 11.25 DEGREE BEND
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
CONCRETE THRUST BLOCKS (SPECIAL)
BACKFILL, APPROX. 65 CY
DUCTILE IRON WATER MAIN 16", APPROX. 48 FT
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
WATER VALVES 16"
VALVE BOX
VALVE BOXES TO BE ADJUSTED
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
NON-PRESSURE CONNECTION TO EXISTING WATER MAIN
DUCTILE IRON WATER MAIN FITTINGS, 16" SOLID SLEEVE
CONCRETE THRUST BLOCKS (SPECIAL)
CONCRETE THRUST BLOCKS (SPECIAL)
WATER MAIN TO BE ABANDONED, 16" APPROX. 63 FT
DUCTILE IRON WATER MAIN FITTINGS, 22.5 DEGREE BEND

208 209 210+00 211 212 213 60+00 61

N

0 20 40
SCALE IN FEET

WATER MAIN KEY MAP PLAN VIEW NO. 8

PROFILE

PROPOSED GROUND PROFILE ALONG CL OF WATER MAIN
EXST. FIBER
EXISTING GROUND PROFILE ALONG CL OF WATER MAIN
EXST. GAS LINE
EXST. STORM SEWER
VALVE BOX STA. 50+41
DUCTILE IRON WATER MAIN 16"
NON-PRESSURE CONNECTION TO EXISTING WATER MAIN
18" MIN.
WATER VALVES 16" STA. 50+41
DUCTILE IRON WATER MAIN FITTINGS, 11.25 DEGREE BEND
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 24"X16" TEE STA. 50+00 (25+52) INSTALLED AT 11.25 DEGREE UPWARD

EXISTING 16" WATER MAIN TO BE REMOVED
EXIST. FIBER
EXISTING 24" WATER MAIN TO BE ABANDONED
CL OF EXISTING IC RAILROAD TRACKS
EXIST. ELECTRICAL
EXIST. ABANDONED FORCE MAIN
PROPOSED GROUND PROFILE ALONG CL OF WATER MAIN
EXISTING GROUND PROFILE ALONG CL OF WATER MAIN
VALVE BOX STA. 61+66
PROPOSED 12" STORM SEWER
DUCTILE IRON WATER MAIN 16"
NON-PRESSURE CONNECTION TO EXISTING WATER MAIN
18" MIN.
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
CONCRETE THRUST BLOCKS (SPECIAL)
WATER VALVES 16" STA. 61+66
DUCTILE IRON WATER MAIN FITTINGS, 45 DEGREE BEND
CONCRETE THRUST BLOCKS (SPECIAL)
DUCTILE IRON WATER MAIN FITTINGS, 24"X16" TEE STA. 60+00 (25+57) INSTALLED AT 45 DEGREE UPWARD
WATERMAIN IN CASING PIPE, DUCTILE IRON, 16" APPROX. 50 FT
STEEL CASINGS 30", APPROX. 50 FT (SLOPED AT 0.3%)

680 675 670 665 660 655 650

674.97 675.56 674.96 674.97 675.08 674.89 675.12 675.08 674.88 674.93

50+00 60+00 60+50 61+00 61+50

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PHONE: (217) 773-6065

USER NAME = monica.crirrion	DESIGNED - BNH	REVISED -	
	DRAWN - BNH	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -	
PLOT DATE = 10/29/2021	DATE - 10/22/2021	REVISED -	

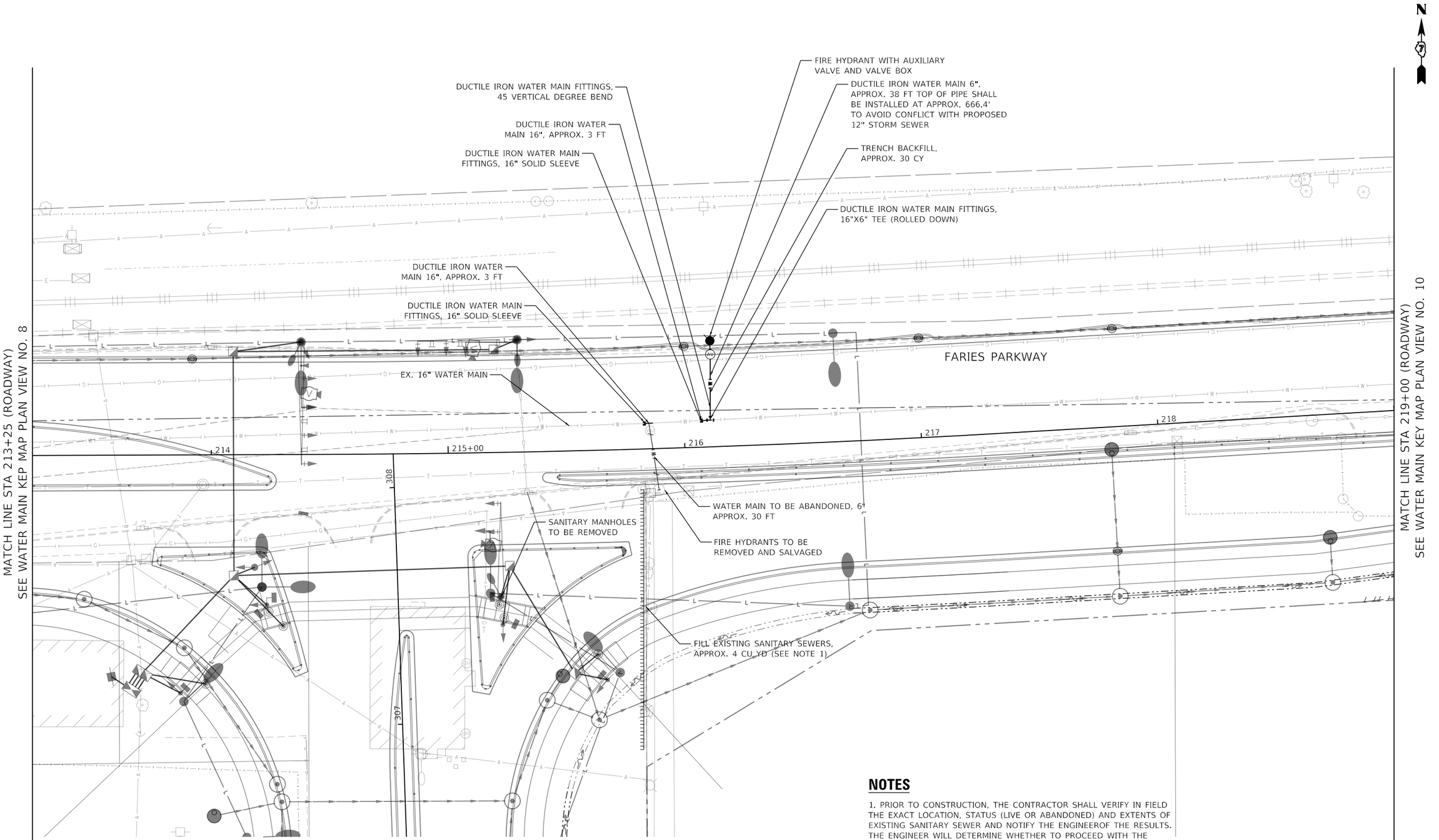
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN AND PROFILE

SCALE: 1"=20' | SHEET 13 OF 31 SHEETS | STA. 208+00 TO STA. 213+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	525
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: pw:\\aecom-nagpw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_08



NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY IN FIELD THE EXACT LOCATION, STATUS (LIVE OR ABANDONED) AND EXTENTS OF EXISTING SANITARY SEWER AND NOTIFY THE ENGINEEROF THE RESULTS. THE ENGINEER WILL DETERMINE WHETHER TO PROCEED WITH THE ABANDONMENT AND FILLING OF THE SANITARY SEWER.

WATER MAIN KEY MAP PLAN VIEW NO. 9

0 20 40
SCALE IN FEET

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

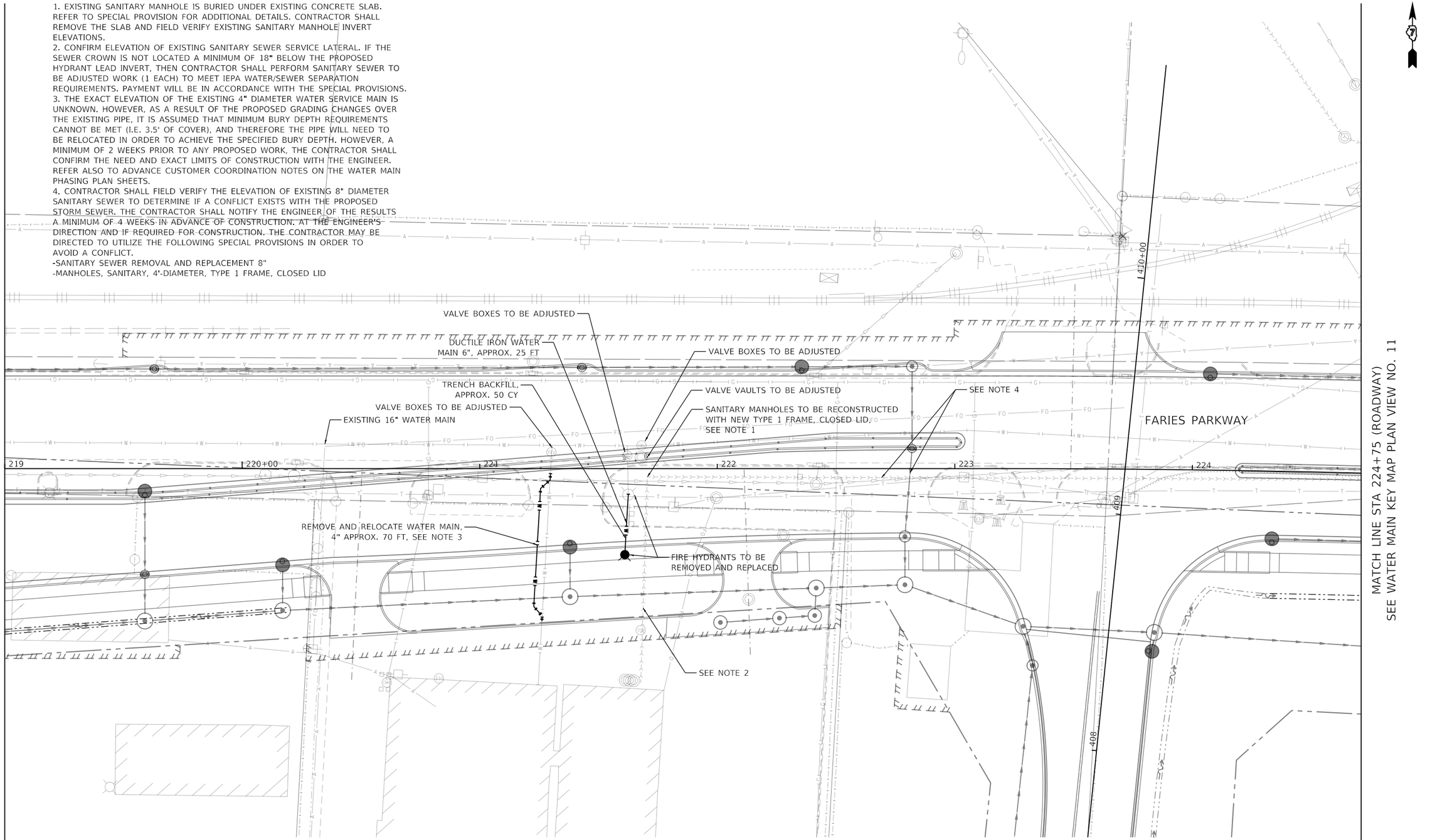
WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN

SCALE: 1"=20' | SHEET 14 OF 31 SHEETS | STA. 213+25 TO STA. 219+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	526
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

NOTES

1. EXISTING SANITARY MANHOLE IS BURIED UNDER EXISTING CONCRETE SLAB. REFER TO SPECIAL PROVISION FOR ADDITIONAL DETAILS. CONTRACTOR SHALL REMOVE THE SLAB AND FIELD VERIFY EXISTING SANITARY MANHOLE INVERT ELEVATIONS.
2. CONFIRM ELEVATION OF EXISTING SANITARY SEWER SERVICE LATERAL. IF THE SEWER CROWN IS NOT LOCATED A MINIMUM OF 18" BELOW THE PROPOSED HYDRANT LEAD INVERT, THEN CONTRACTOR SHALL PERFORM SANITARY SEWER TO BE ADJUSTED WORK (1 EACH) TO MEET IEPA WATER/SEWER SEPARATION REQUIREMENTS. PAYMENT WILL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
3. THE EXACT ELEVATION OF THE EXISTING 4" DIAMETER WATER SERVICE MAIN IS UNKNOWN. HOWEVER, AS A RESULT OF THE PROPOSED GRADING CHANGES OVER THE EXISTING PIPE, IT IS ASSUMED THAT MINIMUM BURY DEPTH REQUIREMENTS CANNOT BE MET (I.E. 3.5' OF COVER), AND THEREFORE THE PIPE WILL NEED TO BE RELOCATED IN ORDER TO ACHIEVE THE SPECIFIED BURY DEPTH. HOWEVER, A MINIMUM OF 2 WEEKS PRIOR TO ANY PROPOSED WORK, THE CONTRACTOR SHALL CONFIRM THE NEED AND EXACT LIMITS OF CONSTRUCTION WITH THE ENGINEER. REFER ALSO TO ADVANCE CUSTOMER COORDINATION NOTES ON THE WATER MAIN PHASING PLAN SHEETS.
4. CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF EXISTING 8" DIAMETER SANITARY SEWER TO DETERMINE IF A CONFLICT EXISTS WITH THE PROPOSED STORM SEWER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE RESULTS A MINIMUM OF 4 WEEKS IN ADVANCE OF CONSTRUCTION. AT THE ENGINEER'S DIRECTION AND IF REQUIRED FOR CONSTRUCTION, THE CONTRACTOR MAY BE DIRECTED TO UTILIZE THE FOLLOWING SPECIAL PROVISIONS IN ORDER TO AVOID A CONFLICT.
-SANITARY SEWER REMOVAL AND REPLACEMENT 8"
-MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID



WATER MAIN KEY MAP PLAN VIEW NO. 10

0 20 40
SCALE IN FEET

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN

SCALE: 1"=20' | SHEET 15 OF 31 SHEETS | STA. 219+00 TO STA. 224+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	527
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

MATCH LINE STA 224+75 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 10

MATCH LINE STA 230+50 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 12

N

SEE NOTE 1

VALVE BOXES TO BE ADJUSTED

SANITARY MANHOLES TO BE ADJUSTED, SEE NOTE 2

EX. 16" WATER MAIN

FARIES PARKWAY

225+00

226

227

228

229

230+00

FIRE HYDRANTS TO BE REMOVED AND REPLACED

SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID

TRENCH BACKFILL, APPROX. 20 CY

DUCTILE IRON WATER MAIN 6", APPROX. 25 FT

SANITARY MANHOLES TO BE ADJUSTED

SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, CLOSED LID

NOTES

1. CONTRACTOR SHALL FIELD VERIFY THE ELEVATION OF THE EXISTING 8" DIAMETER SANITARY SEWER TO DETERMINE IF A CONFLICT EXISTS WITH THE PROPOSED STORM SEWER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE RESULTS A MINIMUM OF 4 WEEKS IN ADVANCE OF CONSTRUCTION. AT THE ENGINEER'S DIRECTION AND IF REQUIRED FOR CONSTRUCTION. THE CONTRACTOR MAY BE DIRECTED TO UTILIZE THE FOLLOWING SPECIAL PROVISIONS IN ORDER TO AVOID A CONFLICT:
- SANITARY SEWER REMOVAL AND REPLACEMENT
-MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID
2. EXISTING SANITARY MANHOLE RIM ELEVATION = 659.21' (APPROX.)
EXISTING 8" SANITARY INVERT ELEVATION TO WEST = 652.57' (APPROX.)

WATER MAIN KEY MAP PLAN VIEW NO. 11

0 20 40
SCALE IN FEET

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN AND SANITARY SEWER PLAN

SCALE: 1"=20' | SHEET 16 OF 31 SHEETS | STA. 224+75 TO STA. 230+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	528
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

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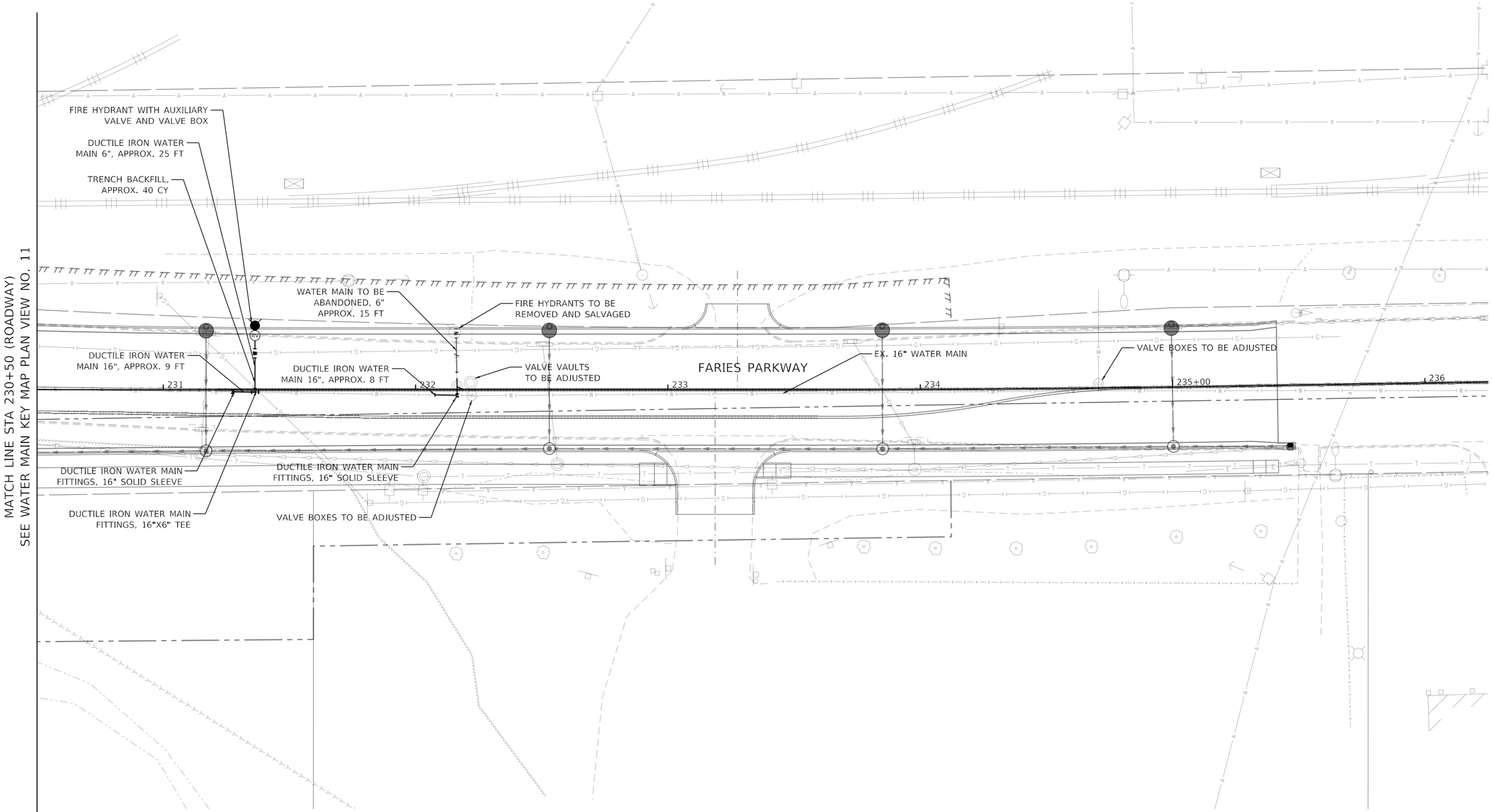


WATER MAIN KEY MAP PLAN VIEW NO. 12

0 20 40

SCALE IN FEET

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

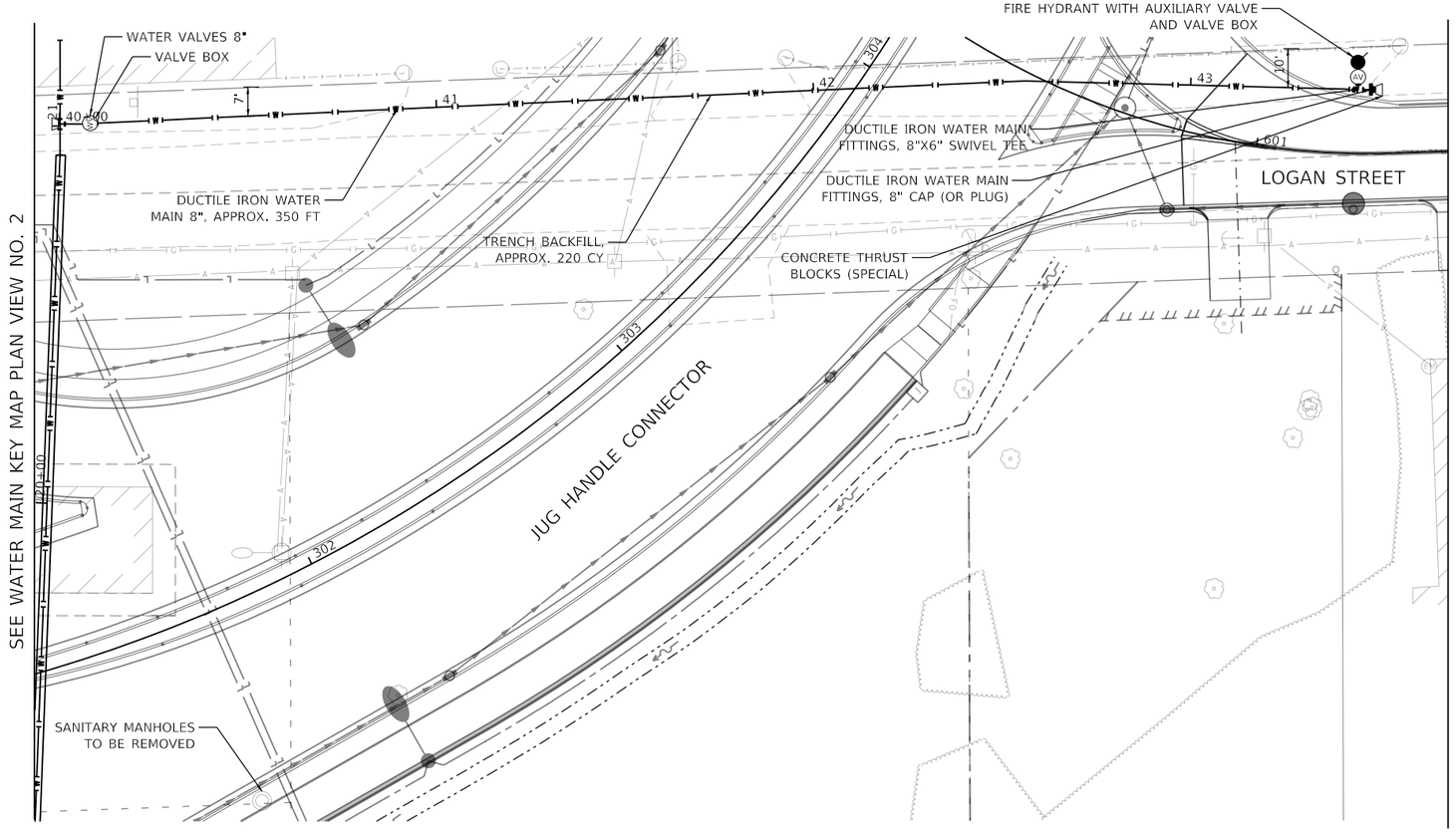
USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

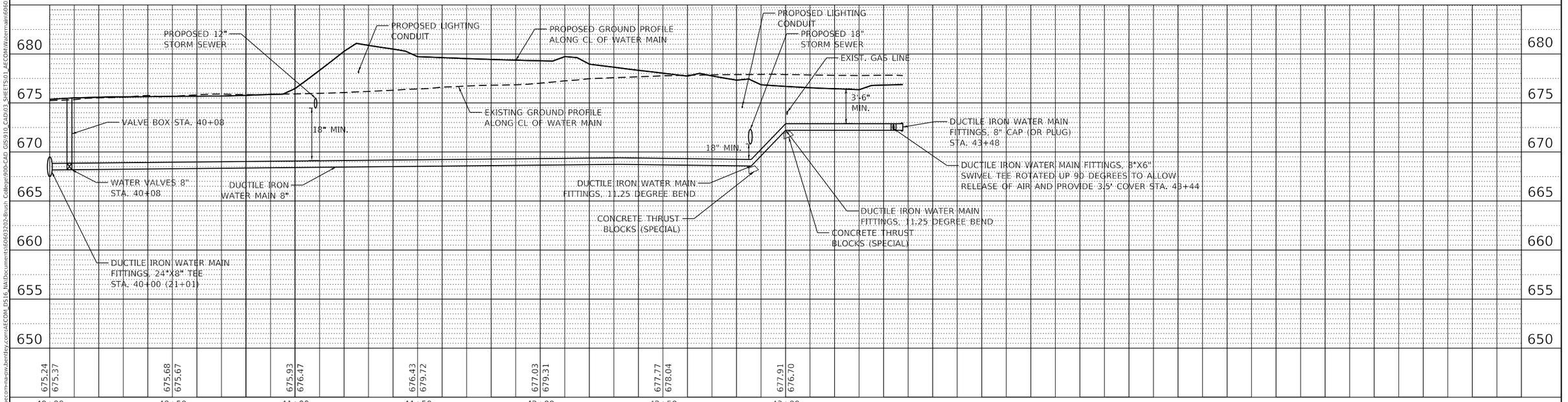
WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN

SCALE: 1"=20' | SHEET 17 OF 31 SHEETS | STA. 230+50 TO STA. 236+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	529
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



WATER MAIN KEY MAP PLAN VIEW NO. 13



AECOM 345 EAST ASH AVENUE DECATUR, IL 62526 PHONE: (217) 775-6065	USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
		DRAWN - BNH	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
	PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PLAN AND PROFILE

SCALE: 1"=20' | SHEET 18 OF 31 SHEETS | STA. 40+50 TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	530
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, E.M. NOTED, STRUCTURE NOTA**NS CHKD, NOTE BOOK, NO., BY, DATE

MODEL: Default
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MATCH LINE STA 601+50 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 13

MATCH LINE STA 607+50 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 15

N

E LOGAN ST

602 603 604 605+00 606 607

NOTES

1. NO PROPOSED WATER MAIN WORK IN THIS AREA.
2. NO EXISTING WATER MAIN OR SANITARY SEWER ADJUSTMENT WORK IN THIS AREA.

0 20 40
SCALE IN FEET

WATER MAIN KEY MAP PLAN VIEW NO. 14

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College(900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_14

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6085

USER NAME = brooke.henry	DESIGNED - XXX	REVISED -
	DRAWN - XXX	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - XXX	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

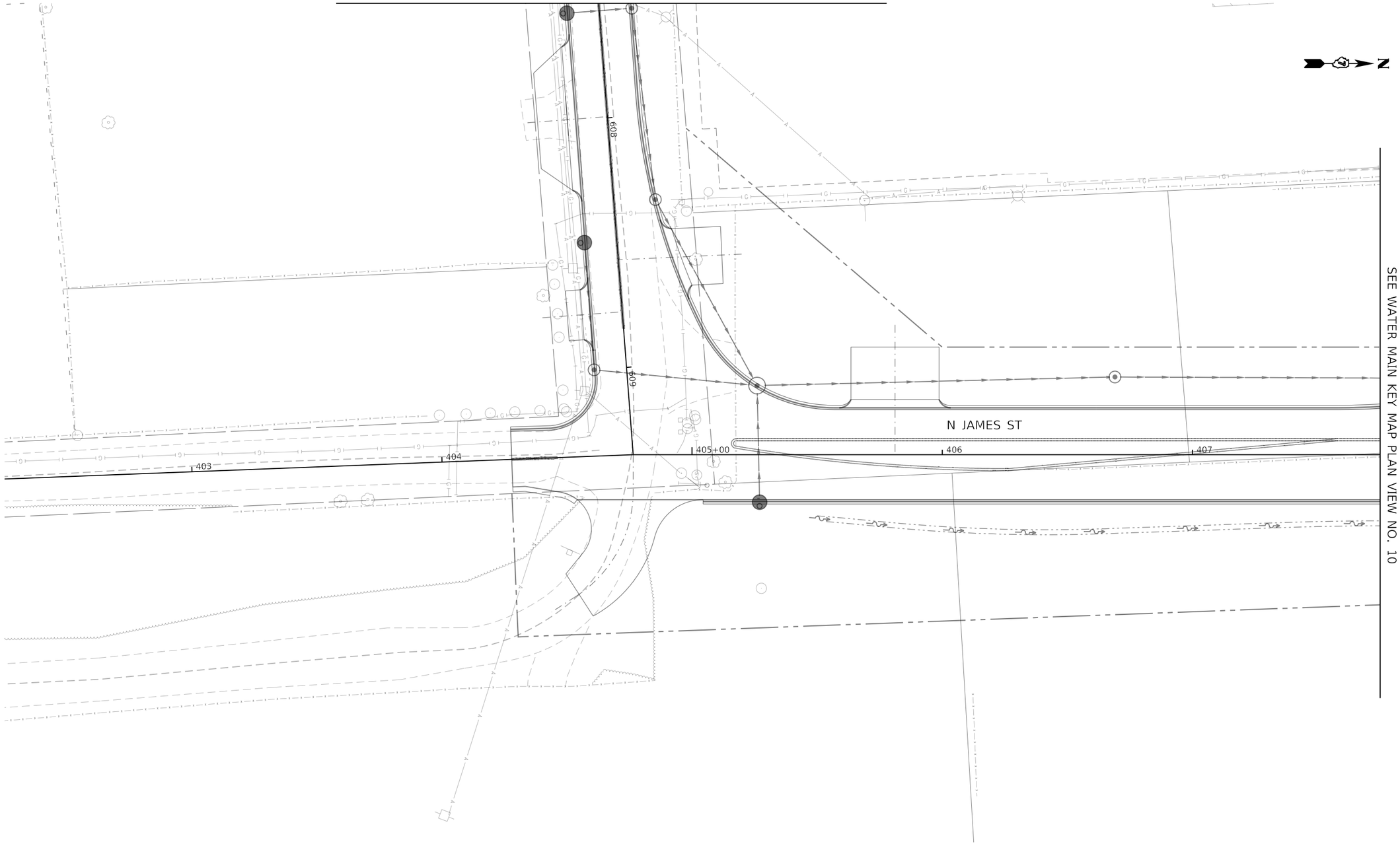
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
EXISTING UTILITY PLAN

SCALE: 1"=20' | SHEET 19 OF 31 SHEETS | STA. 601+50 | TO STA. 607+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	531
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

MATCH LINE STA 607+50 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 14



MATCH LINE STA 407+50 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 10

WATER MAIN KEY MAP PLAN VIEW NO. 15

NOTES

1. NO PROPOSED WATER MAIN WORK IN THIS AREA.
2. NO EXISTING WATER MAIN OR SANITARY SEWER ADJUSTMENT WORK IN THIS AREA.

0 20 40
SCALE IN FEET

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

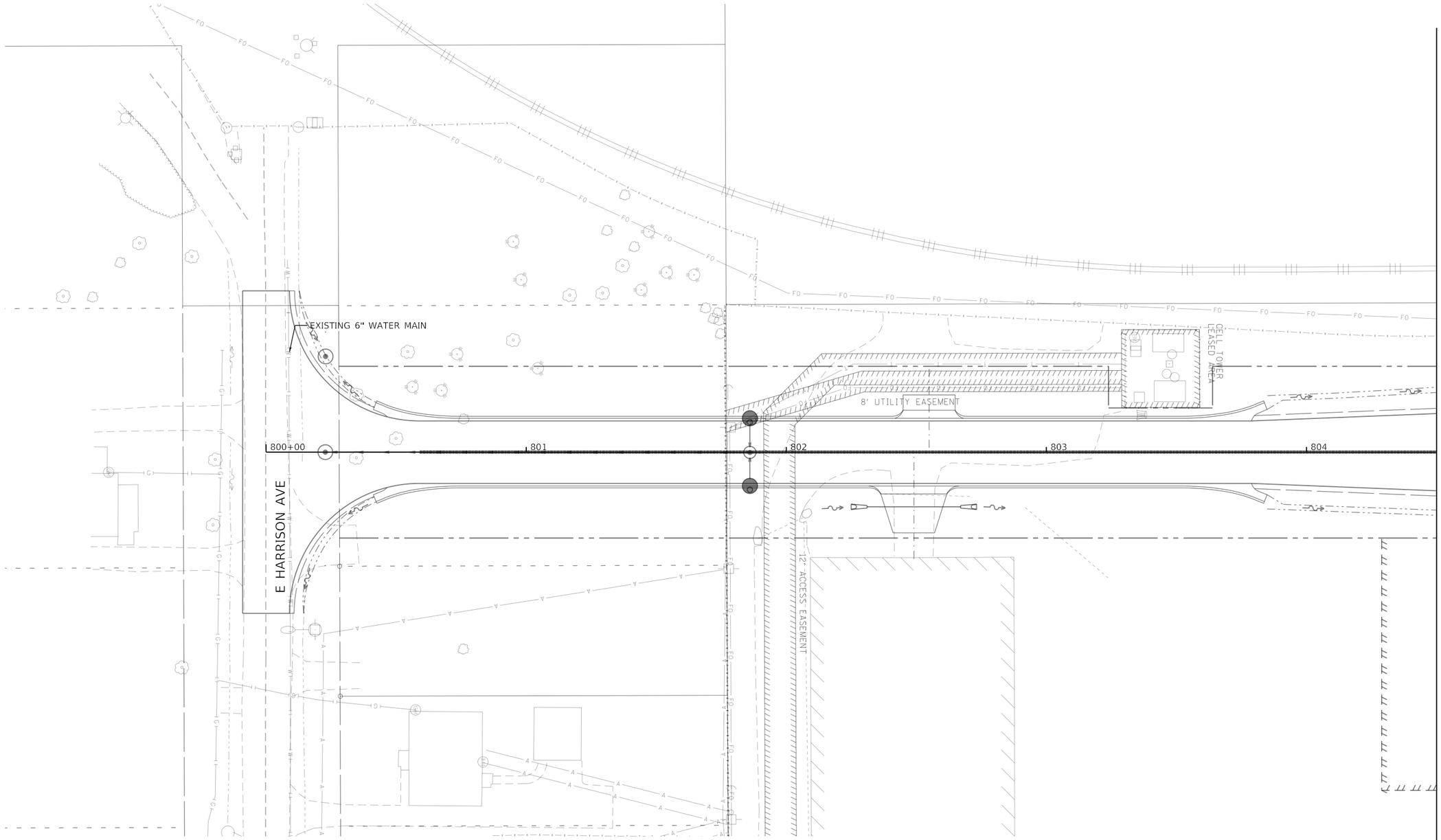
USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
EXISTING UTILITY PLAN

SCALE: 1"=20' | SHEET 20 OF 31 SHEETS | STA. 402+50 TO STA. 407+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	532
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			



WATER MAIN KEY MAP PLAN VIEW NO. 16

NOTES

1. NO PROPOSED WATER MAIN WORK IN THIS AREA.
2. NO EXISTING WATER MAIN OR SANITARY SEWER ADJUSTMENT WORK IN THIS AREA.

0 20 40

SCALE IN FEET

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_I6

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

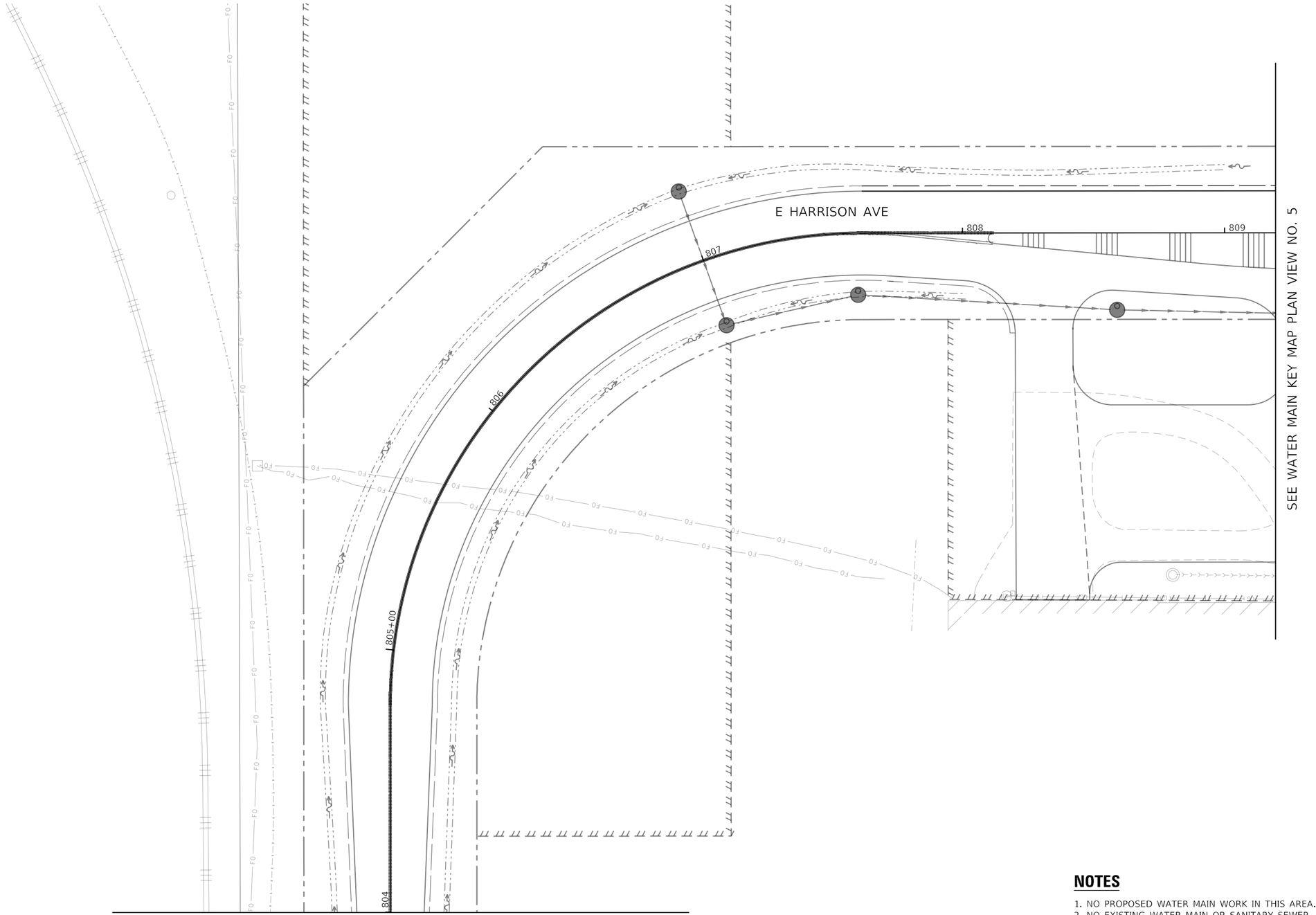
USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
EXISTING UTILITY PLAN

SCALE: 1"=20' | SHEET 21 OF 31 SHEETS | STA. 800+00 TO STA. 804+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	533
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			



MATCH LINE STA 804+00 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 16

NOTES

1. NO PROPOSED WATER MAIN WORK IN THIS AREA.
2. NO EXISTING WATER MAIN OR SANITARY SEWER ADJUSTMENT WORK IN THIS AREA.

0 20 40
SCALE IN FEET

WATER MAIN KEY MAP PLAN VIEW NO. 17

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_17

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

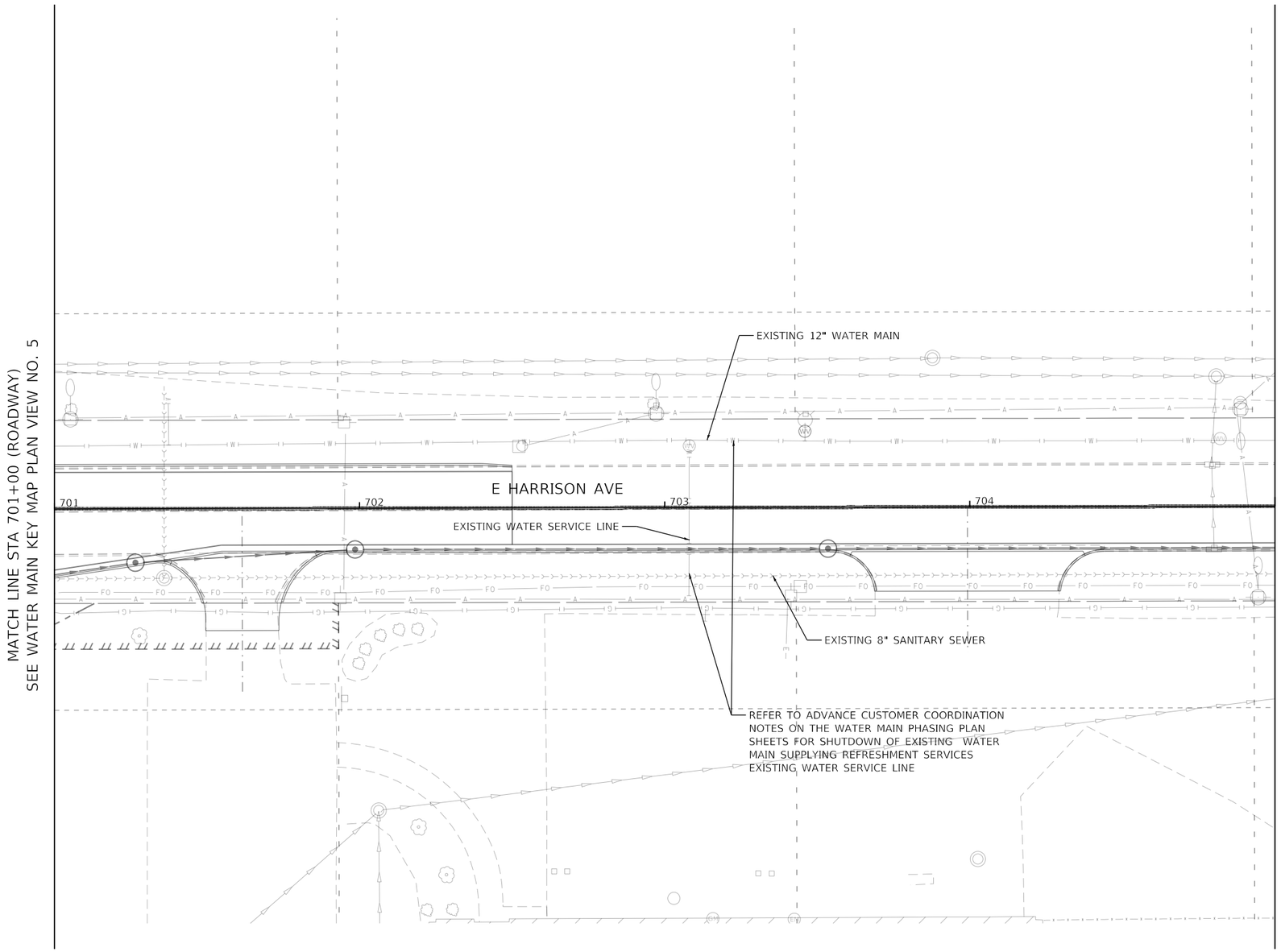
USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
EXISTING UTILITY PLAN

SCALE: 1"=20' | SHEET 22 OF 31 SHEETS | STA. 804+00 TO STA. 808+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	534
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			



WATER MAIN KEY MAP PLAN VIEW NO. 18

NOTES

1. NO PROPOSED WATER MAIN WORK IN THIS AREA.
2. NO EXISTING WATER MAIN OR SANITARY SEWER ADJUSTMENT WORK IN THIS AREA.

0 20 40

SCALE IN FEET

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

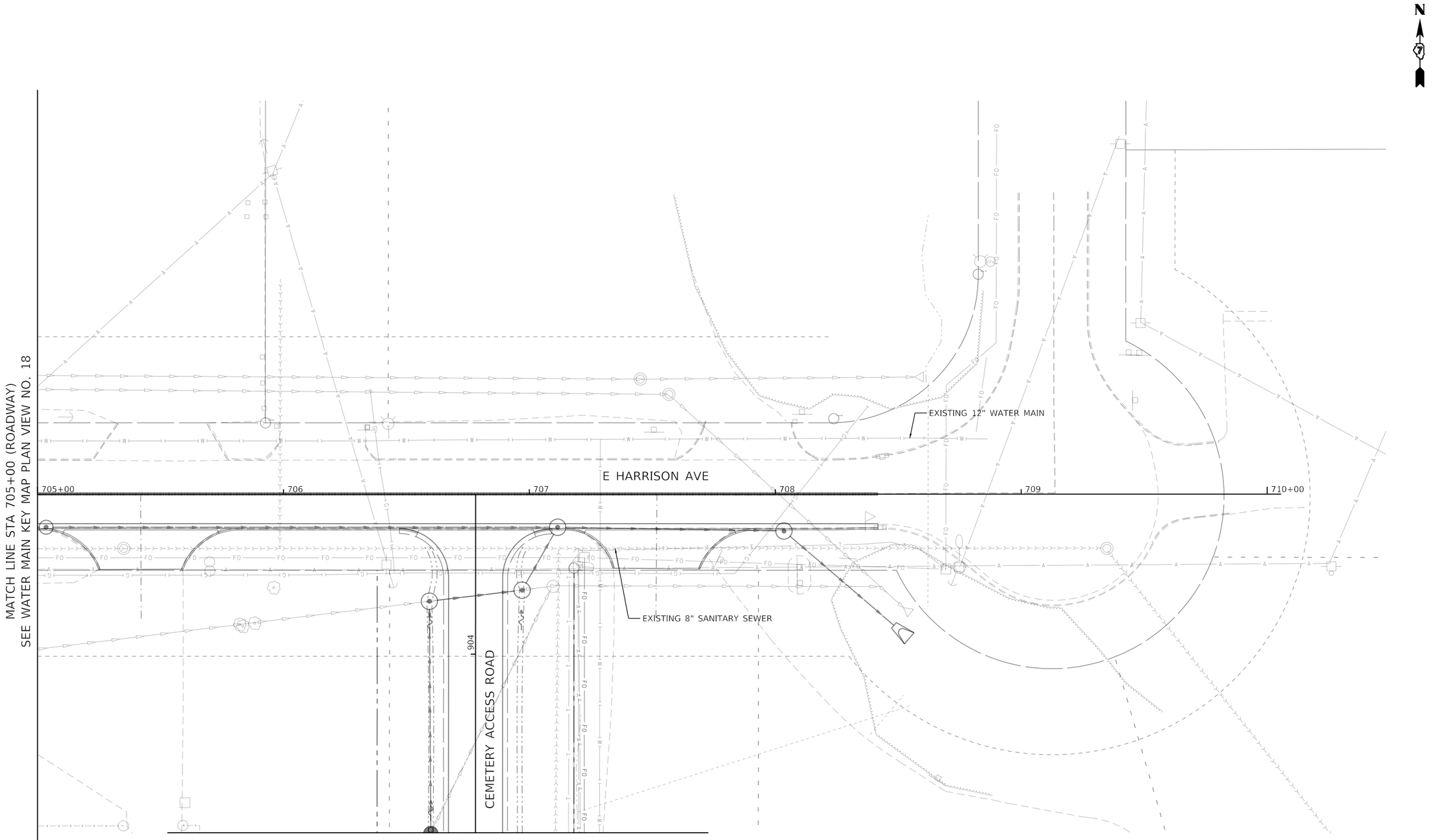
USER NAME = brooke.henry	DESIGNED - XXX	REVISED -
	DRAWN - XXX	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - XXX	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
EXISTING UTILITY PLAN

SCALE: 1"=20' | SHEET 23 OF 31 SHEETS | STA. 701+00 | TO STA. 705+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	535
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



WATER MAIN KEY MAP PLAN VIEW NO. 19

NOTES

1. NO PROPOSED WATER MAIN WORK IN THIS AREA.
2. NO EXISTING WATER MAIN OR SANITARY SEWER ADJUSTMENT WORK IN THIS AREA.

0 20 40
SCALE IN FEET

MODEL: Default
FILE NAME: pw:\\aecom-na-siw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_19

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
EXISTING UTILITY PLAN

SCALE: 1"=20' | SHEET 24 OF 31 SHEETS | STA. 705+00 | TO STA. 710+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	536
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

MATCH LINE STA 705+00 (ROADWAY)
SEE WATER MAIN KEY MAP PLAN VIEW NO. 18 & 19

EXISTING 8" SANITARY SEWER

EXISTING 12" WATER MAIN

900+00 901 902 903 904

CEMETERY ACCESS RD

E HARRISON AVE

705 707 708

WATER MAIN KEY MAP PLAN VIEW NO. 20

NOTES

1. NO PROPOSED WATER MAIN WORK IN THIS AREA.
2. NO EXISTING WATER MAIN OR SANITARY SEWER ADJUSTMENT WORK IN THIS AREA.

0 20 40
SCALE IN FEET

MODEL: Default
FILE NAME: pw:\\aecom-na-piw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\01_AECOM\Watermain\60603202_WM_KEYMAP_SEC_20

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
EXISTING UTILITY PLAN

SCALE: 1"=20' | SHEET 25 OF 31 SHEETS | STA. 900+00 | TO STA. 904+60

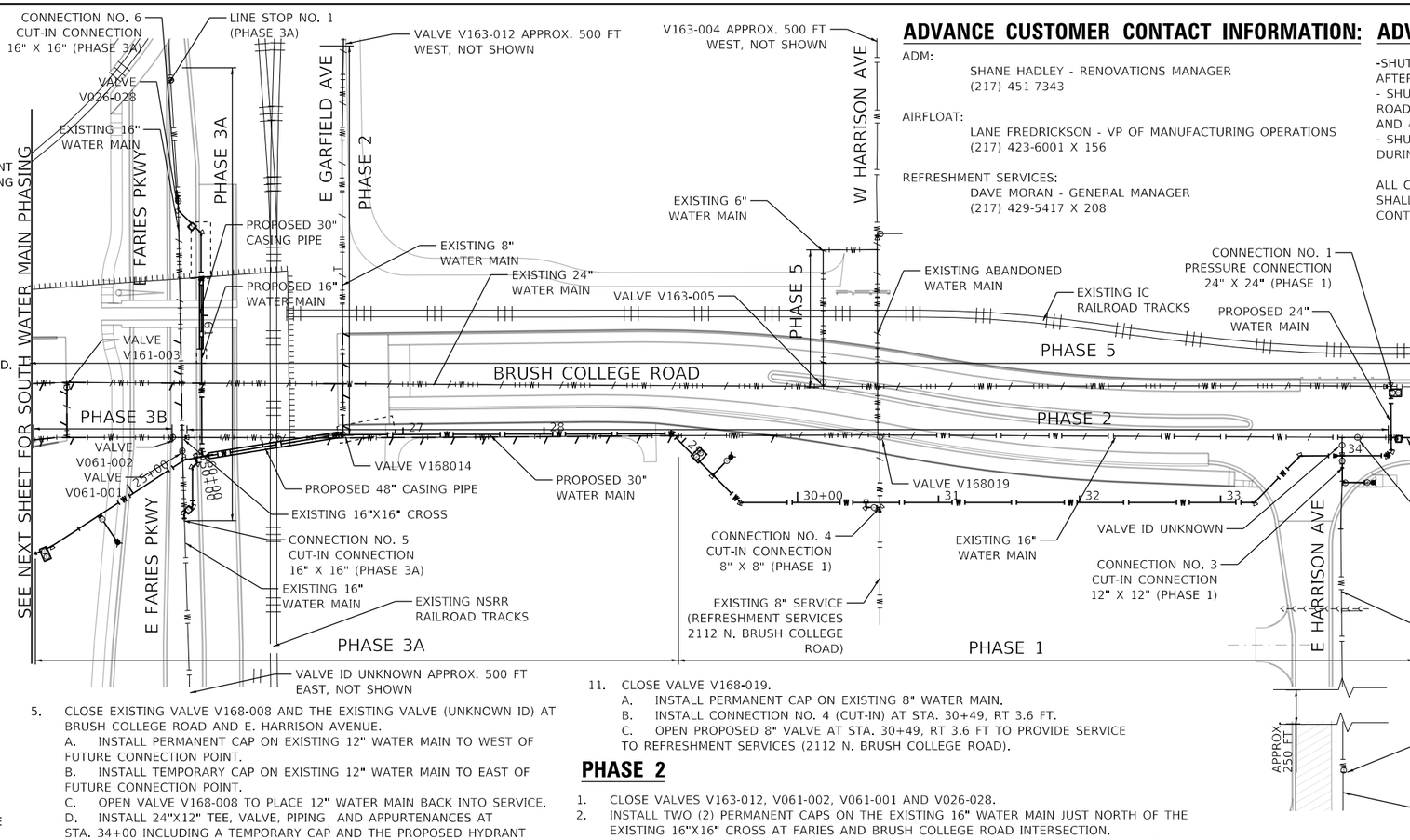
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	537
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. WATER MAIN CONSTRUCTION PHASES 1 THROUGH 3B SHALL BE PERFORMED DURING ROADWAY CONSTRUCTION PRE-STAGES A THROUGH H. WATER MAIN CONSTRUCTION PHASES 4 THROUGH 5 SHALL BE PERFORMED DURING ROADWAY CONSTRUCTION STAGE 1. PHASE 6 SHALL BE PERFORMED AS NEEDED FOR CONSTRUCTION.
2. WATER MAIN ABANDONMENT AND REMOVAL IS NOT REQUIRED TO BE PERFORMED AT ANY SPECIFIC POINT DURING THE WATER MAIN PHASING AND SEQUENCING BUT IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE PERFORMED AS NEEDED FOR CONSTRUCTION. ADDITIONALLY, EXISTING WATER MAINS IN CONFLICT WITH THE PROPOSED PIER FOOTING AND/OR OTHER ROADWAY AND BRIDGE CONSTRUCTION MUST BE REMOVED AS DETAILED IN THE PLANS.
3. ALL WORK REQUIRES A COORDINATION MEETING WITH THE CITY A MINIMUM OF 48 HOURS IN ADVANCE.
4. MAXIMUM ALLOWABLE DURATION FOR EACH SHUT DOWN IS 6 HOURS UNLESS OTHERWISE NOTED.
5. ALL SHUT DOWNS MUST BE COORDINATED WITH THE CITY OF DECATUR AND THE CUSTOMERS BEING AFFECTED. CONTRACTOR SHALL PERFORM SHUTDOWNS AT A TIME THAT IS APPROVED BY THE CITY AND BY THE CUSTOMER BEING AFFECTED. THIS MAY REQUIRE THAT WORK BE PERFORMED DURING NON STANDARD WORKING HOURS, SUCH AS OVERNIGHT OR ON THE WEEKEND. ALL WORK, REGARDLESS OF THE TIME AND DAY SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE CONTRACT. THE ENGINEER HAS PERFORMED SOME ADVANCE COORDINATION WITH CUSTOMERS. SEE NOTES IN THE UPPER RIGHT OF THIS SHEET.
6. CONTRACTOR IS NOT ALLOWED TO OPERATE EXISTING VALVES AND HYDRANTS. EXISTING VALVES AND HYDRANTS ARE ONLY TO BE OPERATED BY THE CITY OF DECATUR.
7. THE SEQUENCING PLAN DETAILED HEREIN IS THE ENGINEER'S GENERAL RECOMMENDED APPROACH, WHICH MAY NEED TO BE REVISED BASED ON FIELD CONDITIONS, EXISTING VALVE OPERABILITY, ETC. CONTRACTOR REQUESTED CHANGES TO THE SEQUENCING MAY BE CONSIDERED BUT MUST BE SUBMITTED IN ADVANCE TO THE CITY AND THE ENGINEER FOR APPROVAL. ANY CHANGES TO THE SEQUENCING SHALL BE AT NO ADDITIONAL COST TO THE CONTRACT.
8. ALL PREPARATION WORK, INCLUDING, BUT NOT LIMITED TO, EXCAVATION, THRUST BLOCKS, PIPE CLEANING, TEST SHUTDOWNS, ETC. SHALL BE DONE IN ADVANCE OF CONSTRUCTING THE PROPOSED CONNECTIONS TO REDUCE SHUT DOWN TIMES. ALL PROPOSED FITTINGS, VALVES, AND HYDRANTS SHALL BE LOCATED ON-SITE, IN ADVANCE OF CONSTRUCTION TO PROVIDE SUFFICIENT OPPORTUNITY FOR THE PROPOSED APPURTENANCES TO BE INSPECTED.
9. PROVIDE ALL TEMPORARY AND PERMANENT BRACING/ THRUST BLOCKING REQUIRED FOR ALL PRESSURIZED PIPING AND SYSTEMS.
10. THE STATION LOCATIONS IN THE PHASING NOTES REFERENCE THE PROPOSED WATER MAIN BASELINE.
11. FLUSHING, DISINFECTION, AND DE CHLORINATION OF WATER MAIN SYSTEM, INCLUDING BOTH THE BRANCH CONNECTIONS (E.G. THE 12" WATER MAIN IN E. HARRISON AVENUE) AND THE MAIN LINES SHALL BE PERFORMED IN ACCORDANCE WITH AWWA REQUIREMENTS. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN AND SCHEDULE FOR THESE OPERATIONS TO THE CITY AND THE ENGINEER A MINIMUM OF 7 DAYS IN ADVANCE FOR REVIEW AND APPROVAL.
12. A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF BEGINNING CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WATER MAIN ELEVATIONS.
13. ALL STATIONING IS APPROXIMATE.

PHASE 1

1. GENERALLY, INSTALL PIPE AND FITTINGS SOUTH TO NORTH FROM STA. 29+15 TO 34+82 AS SHOWN ON THE PLANS.
2. INSTALL 30" VALVE AT STA. 29+15.
3. SET TEE AND FIRE HYDRANT AT STA. 29+32.
4. SET 30"X8" TEE, 8" VALVE, AND TEMPORARY CAP AT STA. 30+49.
   A. THIS WORK IS IN PREPARATION FOR CONNECTION NO. 4, WHICH WILL BE COMPLETED AT THE END OF PHASE 1 (8" CONNECTION FOR REFRESHMENT SERVICES AT 2112 BRUSH COLLEGE ROAD).



5. CLOSE EXISTING VALVE V168-008 AND THE EXISTING VALVE (UNKNOWN ID) AT BRUSH COLLEGE ROAD AND E. HARRISON AVENUE.
   A. INSTALL PERMANENT CAP ON EXISTING 12" WATER MAIN TO WEST OF FUTURE CONNECTION POINT.
   B. INSTALL TEMPORARY CAP ON EXISTING 12" WATER MAIN TO EAST OF FUTURE CONNECTION POINT.
   C. OPEN VALVE V168-008 TO PLACE 12" WATER MAIN BACK INTO SERVICE.
   D. INSTALL 24"X12" TEE, VALVE, PIPING AND APPURTENANCES AT STA. 34+00 INCLUDING A TEMPORARY CAP AND THE PROPOSED HYDRANT ASSEMBLY AT THE NORTHEAST CORNER OF BRUSH COLLEGE ROAD AND E. HARRISON AVENUE.
6. CLOSE EXISTING VALVES V168-011, V168-009, AND THE 8" SERVICE VALVE FOR AIRFLOAT (2230 N. BRUSH COLLEGE ROAD).
   A. INSTALL PERMANENT CAP ON EXISTING 16" WATER MAIN TO THE SOUTH OF FUTURE CONNECTION POINT.
   B. INSTALL TEMPORARY CAP ON EXISTING 16" WATER MAIN TO THE NORTH OF FUTURE CONNECTION POINT.
   C. OPEN EXISTING VALVES V168-011 AND THE 8" SERVICE VALVE FOR AIRFLOAT (2230 N. BRUSH COLLEGE ROAD) TO PLACE THE 16" WATER MAIN AND AIRFLOAT BACK INTO SERVICE.
   D. INSTALL 24"X16" TEE, VALVE, PIPING, AND APPURTENANCES AT STA. 34+46, INCLUDING A TEMPORARY CAP.
7. INSTALL CONNECTION NO. 1 (PRESSURE CONNECTION) ON THE EXISTING 24" WATER MAIN AT STA. 34+82.
8. FLUSH, PRESSURE TEST, DISINFECT, AND PLACE THE PHASE 1 WATER MAIN INTO SERVICE.
   A. WATER MAIN SHALL BE FLUSHED TO BRUSH COLLEGE ROAD OR OTHER SUITABLE LOCATION. PROVIDE TRAFFIC CONTROL ON BRUSH COLLEGE ROAD AND E. HARRISON AVENUE AS NEEDED FOR THE FLUSHING OPERATION AND TO MAINTAIN TRAFFIC OPERATIONS. PROVIDE ALL TEMPORARY PIPING, VALVES, AND APPURTENANCES NEEDED TO PERFORM THIS FLUSHING OPERATION.
   B. TEMPORARY FLUSHING PIPING SHALL BE 30" DIAMETER MINIMUM.
   C. THE CONTRACTOR'S ATTENTION IS CALLED TO THE CITY'S REQUIREMENT FOR UTILIZING PIGS FOR THE FLUSHING OPERATIONS. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.
9. CLOSE VALVES V168-011 AND THE EXISTING 8" SERVICE VALVE FOR AIRFLOAT (2230 N. BRUSH COLLEGE ROAD).
   A. REMOVE TEMPORARY CAPS AND INSTALL CONNECTION NO. 2 (CUT-IN) AT STA. 34+46, RT 15.5 FT.
   B. OPEN VALVE V168-011, 8" SERVICE VALVE FOR AIRFLOAT (2230 N. BRUSH COLLEGE ROAD), AND THE PROPOSED 16" VALVE AT STA. 34+46, RT 5.3 FT.
10. CLOSE VALVE V168-008.
    A. REMOVE TEMPORARY CAPS AND INSTALL CONNECTION NO. 3 (CUT-IN) AT STA. 34+00, RT. 8.6 FT.
    B. OPEN VALVE V168-008 AND THE PROPOSED 12" VALVE AT STA. 31+51, RT 3.6 FT.
11. CLOSE VALVE V168-019.
    A. INSTALL PERMANENT CAP ON EXISTING 8" WATER MAIN.
    B. INSTALL CONNECTION NO. 4 (CUT-IN) AT STA. 30+49, RT 3.6 FT.
    C. OPEN PROPOSED 8" VALVE AT STA. 30+49, RT 3.6 FT TO PROVIDE SERVICE TO REFRESHMENT SERVICES (2112 N. BRUSH COLLEGE ROAD).

PHASE 2

1. CLOSE VALVES V163-012, V061-002, V061-001 AND V026-028.
2. INSTALL TWO (2) PERMANENT CAPS ON THE EXISTING 16" WATER MAIN JUST NORTH OF THE EXISTING 16"X16" CROSS AT FARIES AND BRUSH COLLEGE ROAD INTERSECTION.
3. OPEN VALVES V061-001, V061-002 AND V026-028, WHICH WILL PLACE THE EXISTING 16" FARIES PKWY WATER MAIN BACK INTO SERVICE.
4. THE CITY OF DECATUR WILL ABANDON IN PLACE THE EXISTING 6" WATER MAIN WEST OF BRUSH COLLEGE ROAD IN E. GARFIELD AVENUE BEGINNING JUST EAST OF THE FIRE HYDRANT (TO BE MAINTAINED IN SERVICE) AT FARIES PARKWAY APPROX. STA. 204+22, LT 136' AND EXTEND TO JUST WEST OF THE FIRE HYDRANT (TO BE REMOVED BY THE CONTRACTOR) AT FARIES PARKWAY APPROX. STA. 209+50, LT 110'. THE CITY WILL PROVIDE A PERMANENT PLUG/CAP AND THRUST BLOCK FOR THE EXISTING WATER MAIN TO BE MAINTAINED IN SERVICE AT APPROX. STA. 204+22, LT 136'. WHEN THE CONTRACTOR REMOVES THE HYDRANT AT APPROX. STA. 209+50, LT 110', THE CONTRACTOR SHALL ALSO PLUG THE EXISTING 6" WATER MAIN EAST AND WEST OF THE HYDRANT. THIS WILL ALLOW THE CITY TO ABANDON THE WATER MAIN WEST OF THIS LOCATION AND ALLOW THE CONTRACTOR TO ABANDON THE WATER MAIN EAST OF THIS LOCATION.
5. OPEN VALVE V163-012.
6. ABANDON THE FOLLOWING WATER MAINS:
   A. EXISTING 16" WATER MAIN ALONG BRUSH COLLEGE ROAD, BETWEEN E. FARIES PKWY AND E. HARRISON AVE.
   B. EXISTING 6" WATER MAIN ALONG GARFIELD AVE. FROM BRUSH COLLEGE RD. TO EXISTING FIRE HYDRANT AT FARIES PARKWAY APPROX. STA. 209+50, LT 110'.

PHASE 3A

1. INSTALL 48" CASING PIPE BY JACK AND BORE ALONG BRUSH COLLEGE ROAD UNDER NSRR TRACKS BETWEEN STA. 25+66 AND STA. 26+40.
2. INSTALL 30" CASING PIPE BY JACK AND BORE ALONG FARIES PKWY UNDER IC RR TRACKS BETWEEN STA. 60+76 AND STA. 61+26.
3. GENERALLY, INSTALL PIPE AND FITTINGS FROM NORTH TO SOUTH FROM STA. 29+15 TO STA. 24+25 AS SHOWN ON THE PLANS. FOR THE FOLLOWING WORK ITEMS. SEQUENCE WATER MAIN WORK AS REQUIRED FOR CONSTRUCTION IN ORDER TO MEET THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN (SEE ESPECIALLY PRE STAGES A THROUGH H).
   - SET 30"X24" REDUCER AT STA. 26+60.
   - SET 24"X16" TEE AT STA. 25+57. LAY 16" PIPE AND FITTINGS TO THE WEST ALONG FARIES PKWY. INSTALL 16" VALVE AT STA. 61+66 AND TEMPORARILY CAP.
   - SET 24"X16" TEE AT STA. 25+52. LAY 16" PIPE AND FITTINGS TO THE EAST ALONG FARIES PKWY. INSTALL 16" VALVE AT STA. 50+41 AND TEMPORARILY CAP.
   - SET 24"X6" TEE AND FIRE HYDRANT AT STA. 24+72.
   - INSTALL 24" VALVE AT STA. 24+25.
   - OPEN PROPOSED 30" VALVE AT STA. 29+15.

ADVANCE CUSTOMER CONTACT INFORMATION:

ADM:
SHANE HADLEY - RENOVATIONS MANAGER
(217) 451-7343

AIRFLOAT:
LANE FREDRICKSON - VP OF MANUFACTURING OPERATIONS
(217) 423-6001 X 156

REFRESHMENT SERVICES:
DAVE MORAN - GENERAL MANAGER
(217) 429-5417 X 208

ADVANCE CUSTOMER COORDINATION NOTES:

-SHUTDOWNS FOR AIRFLOAT (2230 N. BRUSH COLLEGE ROAD) SHALL BE AFTER 3 PM ON WEEKDAYS OR ON THE WEEKENDS.
- SHUTDOWNS FOR REFRESHMENT SERVICES (2112 N. BRUSH COLLEGE ROAD) SHALL BE ANYTIME ON SATURDAY OR SUNDAY OR BETWEEN 11 PM AND 4 AM DURING THE WEEK.
- SHUTDOWNS FOR ADM (4083 FARIES PARKWAY ONLY) SHALL NOT BE DURING NORMAL OPERATIONS (7AM-4PM, MONDAY THROUGH FRIDAY).

ALL COORDINATION LISTED ABOVE IS SUBJECT TO CHANGE. CONTRACTOR SHALL ADJUST SCHEDULING AND WORK AT NO ADDITIONAL COST TO THE CONTRACT.

PHASE 3A

10. FLUSH, PRESSURE TEST, DISINFECT, AND PLACE THE PHASE 3A WATER MAIN INTO SERVICE.
    A. WATER MAIN SHALL BE FLUSHED TO THE PROPOSED STORM SEWER DRAIN SYSTEM LOCATED IN FARIES PARKWAY (STRUCTURE I.D. 205, 208, 209, OR OTHER SUITABLE LOCATION). REFER TO DRAINAGE SHEETS FOR ADDITIONAL DETAIL. PROVIDE TRAFFIC CONTROL ON FARIES PARKWAY AS NEEDED FOR FLUSHING OPERATION AND TO MAINTAIN TRAFFIC OPERATIONS. PROVIDE ALL TEMPORARY PIPING, VALVES, AND APPURTENANCES NEEDED TO PERFORM THIS FLUSHING OPERATION.
    B. TEMPORARY FLUSHING PIPING SHALL BE THE SAME SIZE AS THE WATER MAIN BEING FLUSHED.
    C. THE CONTRACTOR'S ATTENTION IS CALLED TO THE CITY'S REQUIREMENT FOR UTILIZING PIGS FOR THE FLUSHING OPERATIONS. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.
11. CLOSE VALVES V061-001 AND UNKNOWN VALVE EAST ON FARIES (NOT SHOWN).
    A. INSTALL PERMANENT CAP ON EXISTING 16" WATER MAIN AT STA. 50+25, RT 2.4 FT.
    B. INSTALL CONNECTION NO. 5 (CUT-IN) AT STA. 50+47.
    C. OPEN THE PROPOSED 16" VALVE JUST EAST OF THE PROPOSED 24" WATER MAIN AND THE UNKNOWN VALVE EAST ON FARIES (NOT SHOWN). THIS WILL PLACE THE EASTERN SEGMENT OF THE 16" FARIES PKWY WATER MAIN BACK INTO SERVICE.
    D. VALVE V061-001 WILL REMAIN CLOSED.
12. INSTALL LINE STOP NO. 1 IN FARIES PKWY, JUST WEST OF BRUSH COLLEGE RD.
13. CLOSE VALVE V061-002.
    A. INSTALL PERMANENT CAP ON EXISTING 16" WATER MAIN AT STA. 61+78, LT 3.1 FT.
    B. INSTALL CONNECTION NO. 6 (CUT-IN) AT STA. 61+91.
    C. OPEN THE PROPOSED 16" VALVE AT STA. 61+66 AND REMOVE LINE STOP NO. 1. THIS WILL PLACE THE 16" FARIES PKWY WATER MAIN SYSTEM BACK INTO SERVICE.
    D. VALVE V061-002 WILL REMAIN CLOSED.
14. ABANDON 16" WATER MAIN ALONG FARIES PKWY AS SHOWN ON THE PLANS.

PHASE 3B

1. CLOSE VALVE V161-003, JUST SOUTH OF FARIES PKWY IN BRUSH COLLEGE RD.
2. INSTALL ALL PERMANENT CAPS AS NEEDED TO ABANDON THE EXISTING 12" WATER MAIN ALONG BRUSH COLLEGE RD., SOUTH OF FARIES PKWY. ABANDON EXISTING 8" WATER MAIN STUBS.

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6085

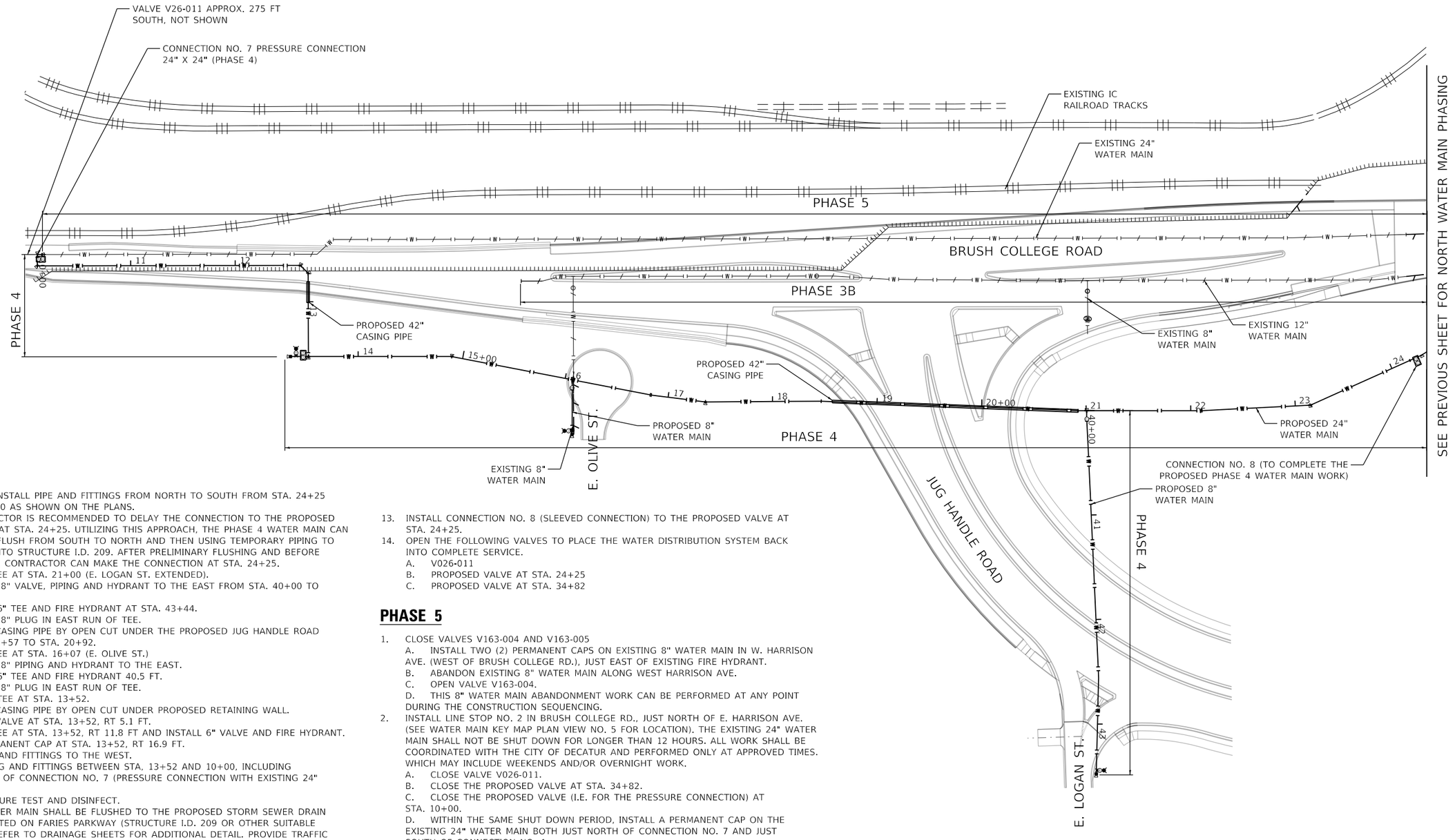
USER NAME = brooke.henry	DESIGNED - BNH	REVISED -	
	DRAWN - BNH	REVISED -	
PLOT SCALE = 100.0001 ' / in.	CHECKED - PSA	REVISED -	
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PHASING PLAN NORTH

SCALE: 1"=50' | SHEET 26 OF 31 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	538
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



PHASE 4

1. GENERALLY, INSTALL PIPE AND FITTINGS FROM NORTH TO SOUTH FROM STA. 24+25 TO STA. 10+00 AS SHOWN ON THE PLANS.
   A. CONTRACTOR IS RECOMMENDED TO DELAY THE CONNECTION TO THE PROPOSED WATER MAIN AT STA. 24+25. UTILIZING THIS APPROACH, THE PHASE 4 WATER MAIN CAN BE USED TO FLUSH FROM SOUTH TO NORTH AND THEN USING TEMPORARY PIPING TO DISCHARGE INTO STRUCTURE I.D. 209. AFTER PRELIMINARY FLUSHING AND BEFORE DISINFECTION, CONTRACTOR CAN MAKE THE CONNECTION AT STA. 24+25.
2. SET 24"X8" TEE AT STA. 21+00 (E. LOGAN ST. EXTENDED).
   A. INSTALL 8" VALVE, PIPING AND HYDRANT TO THE EAST FROM STA. 40+00 TO STA. 43+48.
   B. SET 8"X6" TEE AND FIRE HYDRANT AT STA. 43+44.
   C. INSTALL 8" PLUG IN EAST RUN OF TEE.
3. INSTALL 42" CASING PIPE BY OPEN CUT UNDER THE PROPOSED JUG HANDLE ROAD FROM STA. 18+57 TO STA. 20+92.
4. SET 24"X8" TEE AT STA. 16+07 (E. OLIVE ST.)
   A. INSTALL 8" PIPING AND HYDRANT TO THE EAST.
   B. SET 8"X6" TEE AND FIRE HYDRANT 40.5 FT.
   C. INSTALL 8" PLUG IN EAST RUN OF TEE.
5. SET 24"X24" TEE AT STA. 13+52.
6. INSTALL 42" CASING PIPE BY OPEN CUT UNDER PROPOSED RETAINING WALL.
7. INSTALL 24" VALVE AT STA. 13+52, RT 5.1 FT.
8. SET 24"X6" TEE AT STA. 13+52, RT 11.8 FT AND INSTALL 6" VALVE AND FIRE HYDRANT.
9. INSTALL PERMANENT CAP AT STA. 13+52, RT 16.9 FT.
10. LAY 24" PIPE AND FITTINGS TO THE WEST.
11. INSTALL PIPING AND FITTINGS BETWEEN STA. 13+52 AND 10+00, INCLUDING INSTALLATION OF CONNECTION NO. 7 (PRESSURE CONNECTION WITH EXISTING 24" WATER MAIN)
12. FLUSH, PRESSURE TEST AND DISINFECT.
    A. 24" WATER MAIN SHALL BE FLUSHED TO THE PROPOSED STORM SEWER DRAIN SYSTEM LOCATED ON FARIES PARKWAY (STRUCTURE I.D. 209 OR OTHER SUITABLE LOCATION). REFER TO DRAINAGE SHEETS FOR ADDITIONAL DETAIL. PROVIDE TRAFFIC CONTROL ON FARIES PARKWAY AS NEEDED FOR THE FLUSHING OPERATION AND TO MAINTAIN TRAFFIC OPERATIONS. PROVIDE ALL TEMPORARY PIPING, VALVES, AND APPURTENANCES NEEDED TO PERFORM THIS FLUSHING OPERATION. FOR FLUSHING THE 8" LOGAN STREET WATER MAIN, CONTRACTOR SHALL INSTALL TEMPORARY PIPING AND FLUSH TO THE PROPOSED E. FARIES PARKWAY DRAINAGE SYSTEM TO THE NORTH. FOR FLUSHING THE 8" OLIVE STREET WATER MAIN, CONTRACTOR SHALL UTILIZE THE EXISTING GREEN SPACE TO THE SOUTH OF OLIVE STREET, BUT SHALL PROVIDE ENERGY DISSIPATION, TEMPORARY TANKS, AND/OR SILT FENCE AS NEEDED TO PREVENT FLOODING.
    B. TEMPORARY FLUSHING PIPING SHALL BE THE SAME SIZE AS THE WATER MAIN BEING FLUSHED.
    C. THE CONTRACTOR'S ATTENTION IS CALLED TO THE CITY'S REQUIREMENT FOR UTILIZING PIGS FOR THE FLUSHING OPERATIONS. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS.
13. INSTALL CONNECTION NO. 8 (SLEEVED CONNECTION) TO THE PROPOSED VALVE AT STA. 24+25.
14. OPEN THE FOLLOWING VALVES TO PLACE THE WATER DISTRIBUTION SYSTEM BACK INTO COMPLETE SERVICE.
    A. V026-011
    B. PROPOSED VALVE AT STA. 24+25
    C. PROPOSED VALVE AT STA. 34+82

PHASE 5

1. CLOSE VALVES V163-004 AND V163-005
   A. INSTALL TWO (2) PERMANENT CAPS ON EXISTING 8" WATER MAIN IN W. HARRISON AVE. (WEST OF BRUSH COLLEGE RD.), JUST EAST OF EXISTING FIRE HYDRANT.
   B. ABANDON EXISTING 8" WATER MAIN ALONG WEST HARRISON AVE.
   C. OPEN VALVE V163-004.
   D. THIS 8" WATER MAIN ABANDONMENT WORK CAN BE PERFORMED AT ANY POINT DURING THE CONSTRUCTION SEQUENCING.
2. INSTALL LINE STOP NO. 2 IN BRUSH COLLEGE RD., JUST NORTH OF E. HARRISON AVE. (SEE WATER MAIN KEY MAP PLAN VIEW NO. 5 FOR LOCATION). THE EXISTING 24" WATER MAIN SHALL NOT BE SHUT DOWN FOR LONGER THAN 12 HOURS. ALL WORK SHALL BE COORDINATED WITH THE CITY OF DECATUR AND PERFORMED ONLY AT APPROVED TIMES. WHICH MAY INCLUDE WEEKENDS AND/OR OVERNIGHT WORK.
   A. CLOSE VALVE V026-011.
   B. CLOSE THE PROPOSED VALVE AT STA. 34+82.
   C. CLOSE THE PROPOSED VALVE (I.E. FOR THE PRESSURE CONNECTION) AT STA. 10+00.
   D. WITHIN THE SAME SHUT DOWN PERIOD, INSTALL A PERMANENT CAP ON THE EXISTING 24" WATER MAIN BOTH JUST NORTH OF CONNECTION NO. 7 AND JUST SOUTH OF CONNECTION NO. 1.
   E. ABANDON EXISTING 24" WATER MAIN ALONG BRUSH COLLEGE RD.
3. OPEN PREVIOUSLY CLOSED VALVES. REMOVE LINE STOP AND PLACE WATER DISTRIBUTION SYSTEM BACK INTO COMPLETE SERVICE.

PHASE 6

1. FIRE HYDRANT RELOCATIONS ALONG FARIES PARKWAY (NOT SHOWN IN THE WATER MAIN PHASING PLAN SHEETS) SHALL BE PERFORMED IN CONJUNCTION WITH ROADWAY CONSTRUCTION WORK OR AS NEEDED FOR CONSTRUCTION.

0 50 100
SCALE IN FEET

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6085

USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 100.0001 ' / in.	CHECKED - PSA	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
WATER MAIN PHASING PLAN SOUTH

SCALE: 1"=50' | SHEET 27 OF 31 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	539
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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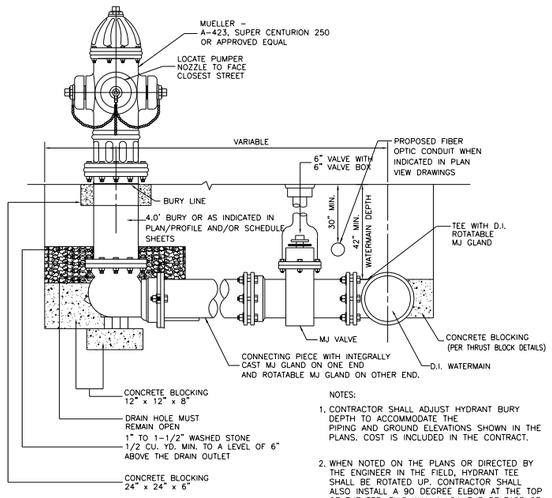
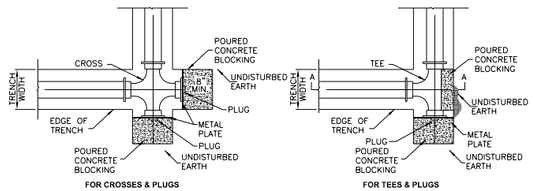
FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX

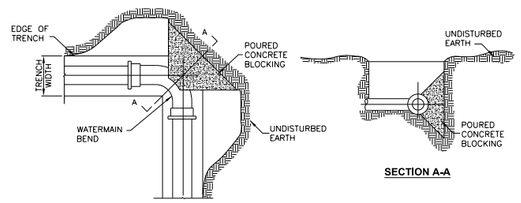


NOTES:

1. CONTRACTOR SHALL ADJUST HYDRANT BURY DEPTH TO ACCOMMODATE THE PIPING AND GROUND ELEVATIONS SHOWN IN THE PLANS. COST IS INCLUDED IN THE CONTRACT.
2. WHEN NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER IN THE FIELD, HYDRANT TEE SHALL BE ROTATED UP. CONTRACTOR SHALL ALSO INSTALL A 90 DEGREE ELBOW AT THE TOP OF THE TEE. THIS WILL ALLOW THE RELEASE OF AIR AT HIGH POINTS IN THE WATER MAIN WHEN THE HYDRANT IS OPENED.
3. INSTALL HYDRANTS A MINIMUM OF 1' BEHIND THE BACK OF ANY EXISTING OR PROPOSED CURB.
4. THE APPLICABLE PARTS OF THIS DETAIL SHALL ALSO APPLY TO THE SPECIAL PROVISION "FIRE HYDRANTS TO BE REMOVED AND REPLACED".
5. RESTRAIN ALL HYDRANT PIPING AND FITTINGS.

CONCRETE THRUST BLOCKS (SPECIAL) - 4" TO 10"

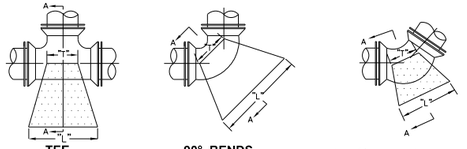




NOTES:

1. CONCRETE BLOCKING SHALL BE SIMILAR FOR ALL BENDS.
2. PRECAST CONCRETE BLOCKING MAY BE USED WITH APPROVAL OF ENGINEER.
3. WRAP CONNECTION ENDS IN PLASTIC SHEETING, NOT LESS THAN 4mil THICKNESS, PRIOR TO POURING CONCRETE BLOCKING.

CONCRETE THRUST BLOCKS (SPECIAL) - 12" TO 42"



NOTES:

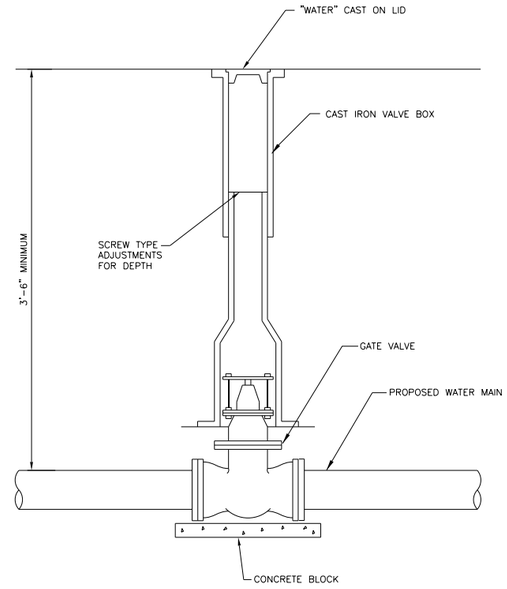
1. DEPTH "D" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE. BLOCK MUST BE POURED AGAINST UNDISTURBED EARTH.
2. POURED BLOCKING NOT TO HINDER REMOVAL OR INSTALLATION OF BOLTS ON MJ FITTINGS.

BLOCKING DIMENSION

	SIZE	12"	16"	20"	24"	30"	36"	42"
TEE	D	6"	8"	12"	20"	30"	36"	44"
	L	24"	32"	50"	62"	84"	96"	144"
	W	24"	32"	40"	48"	60"	80"	120"
	T	18"	22"	27"	32"	34"	36"	36"
90° BENDS	D	10"	15"	54"	66"	*		
	L	34"	54"	108"	120"	*		
	H	38"	54"	48"	60"	*		
	C	14"	18"	60"	72"	*		
45° BENDS	D	8"	8"	12"	18"	20"	24"	
	L	26"	36"	48"	60"	63"	66"	
	W	20"	36"	36"	42"	48"	60"	
	T	8"	22"	24"	32"	32"	33"	
22½° BENDS	D	8"	8"	12"	10"	20"	24"	
	L	26"	36"	48"	42"	63"	66"	
	H	20"	36"	36"	36"	48"	60"	
	C	8"	22"	24"	24"	32"	33"	
PLUG	D	*	*	*	*	*		
	L	*	*	*	*	*		
	W	*	*	*	*	*		
REDUCER	SIZE	42"x36"	36"x30"	36"x24"	30"x24"	30"x16"**		
	D	12"	12"	12"	12"	12"		
	L	72"	48"	60"	42"	48"		
	W	72"	48"	60"	42"	48"		

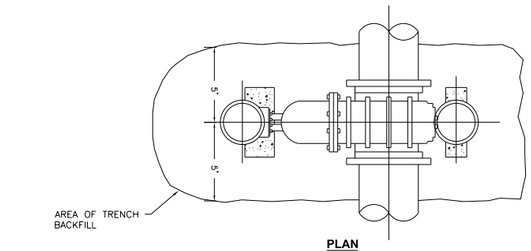
*TO BE DESIGNED BY CONTRACTOR
**AND ALL REDUCERS SMALLER THAN 30"X16"

WATER VALVES AND VALVE BOX 12" AND SMALLER



NO SCALE

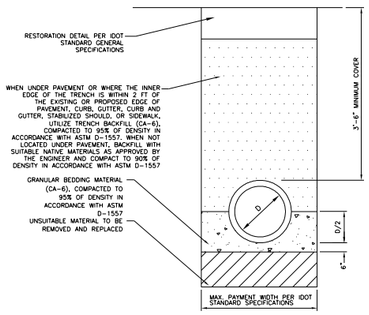
WATER VALVES AND VALVE BOX 16" AND LARGER



NO SCALE

NOTES:

1. FOR SIZES 16" TO 30" GATE VALVE SHALL BE MUELLER A-2361 DUCTILE IRON RESILIENT WEDGE OPEN RIGHT.
2. VALVES SHALL BE COMPLETE WITH MUELLER BEVEL GEARING VALVE OPERATOR.
3. BY-PASS VALVE REQUIRED FOR VALVES 18" AND LARGER.

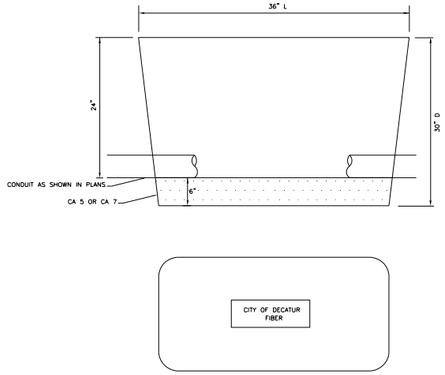


TYPICAL WATER MAIN TRENCH CROSS SECTION

NO SCALE

NOTES:

1. TYPICAL WATER MAIN TRENCH CROSS SECTION SHALL APPLY TO DUCTILE IRON WATER MAIN AND OPEN CUT STEEL CASINGS.
2. BETWEEN STA. 24+30 AND 30+55 (APPROX.), INSTALL FIBER OPTIC CONDUIT A MIN. HORIZONTAL DISTANCE OF 18" FROM THE PROPOSED 24" DIA. AND 30" DIA. WATER MAINS (AS MEASURED FROM OD TO OD). STANDARD BURY DEPTH SHALL BE 30"-36", AND SHALL BE A MINIMUM OF 6" ABOVE THE TOP OF THE PROPOSED 24" AND 30" DIA. WATER MAINS. THE FOLLOWING EXCEPTIONS SHALL APPLY:
   A. WHEN INSTALLED INSIDE THE PROPOSED 48" DIAMETER CASING PIPE.
   B. WHEN THE PROPOSED WATER MAIN HAS ONLY 36-INCHES OF BURY DEPTH (SEE WATER MAIN STATION 24+55 TO 24+70, APPROX.), IN WHICH CASE THE 4" HDPE CONDUIT IS PERMITTED TO BE INSTALLED AT APPROXIMATELY THE SAME ELEVATION AS THE PROPOSED WATER MAIN.



COMMUNICATIONS VALUT

NO SCALE

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

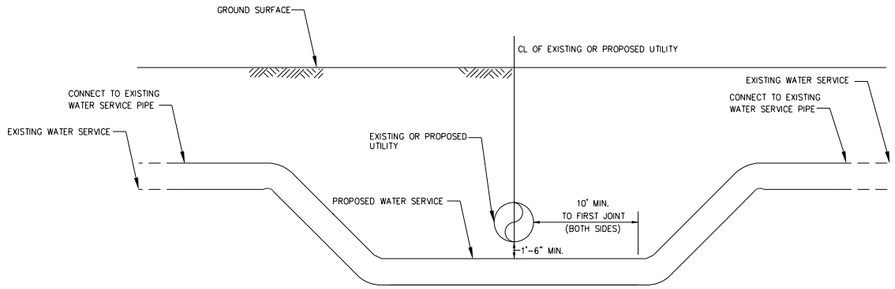
USER NAME = brooke.henry	DESIGNED - BNH	REVISED -	
	DRAWN - BNH	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - PSA	REVISED -	
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
DETAIL SHEET 1

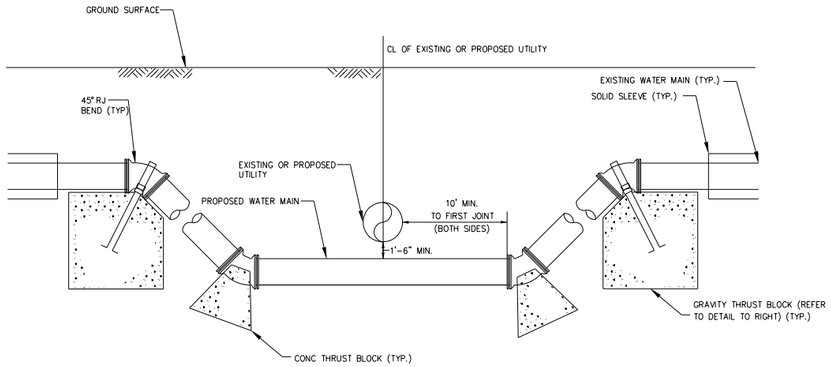
SCALE: NTS | SHEET 28 OF 31 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	540
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			



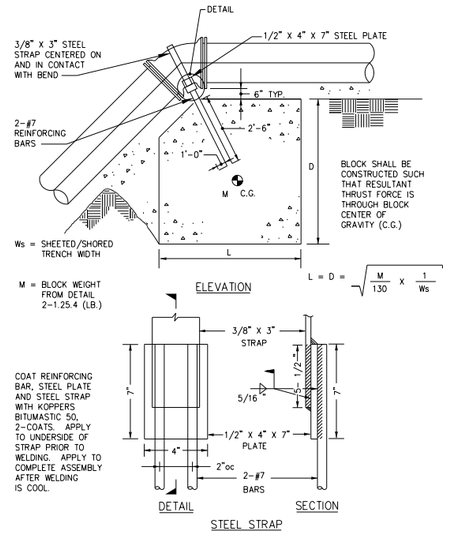
WATER SERVICE LINE RELOCATED
NTS

NOTES:
1. SEWER SHALL BE WATER MAIN QUALITY PIPE MATERIAL (OR RCP PIPE WITH GASKETS MEETING ASTM C361 OR C443), ALL IN ACCORDANCE WITH IEPA WATER/SEWER SEPARATION REQUIREMENTS.
2. PROVIDE ALL REQUIRED COUPLINGS, UNIONS, BENDS, FITTINGS, REDUCERS, AND APPURTENANCES REQUIRED FOR CONSTRUCTION.



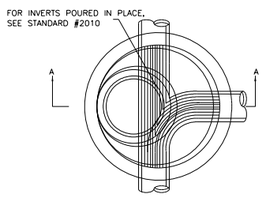
REMOVE AND RELOCATE WATER MAIN
NTS

NOTES:
1. SEWER SHALL BE WATER MAIN QUALITY PIPE MATERIAL (OR RCP PIPE WITH GASKETS MEETING ASTM C361 OR C443), ALL IN ACCORDANCE WITH IEPA WATER/SEWER SEPARATION REQUIREMENTS.

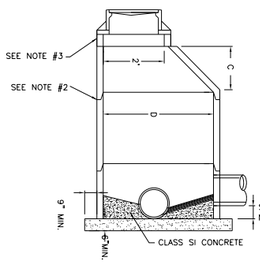


CONCRETE GRAVITY THRUST BLOCK
NTS

MANHOLES, SANITARY, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID



PLAN



SECTION A - A

SANITARY SEWER NOTES:

1. FOR VERTICAL SEPARATIONS GREATER THAN 2' USE DROP STACK, STANDARD 2030.

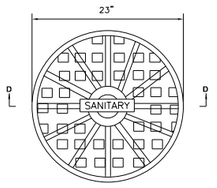
GENERAL NOTES:

1. PRECAST MANHOLE SECTIONS ARE REQUIRED. POURED IN PLACE MANHOLES MUST BE APPROVED IN WRITING BY THE CITY ENGINEER.
2. ALL MASONRY JOINTS IN THE STRUCTURE SHALL BE SEALED USING PERMAGUM ROPE MASTIC OR APPROVED EQUAL. ADJUSTING RINGS AND THE CASTING SHALL BE SEALED USING 2 LOOPS OF 3/4" PERMAGUM ROPE MASTIC.
3. FINAL UPWARD ADJUSTMENT TO GRADE SHALL BE MADE USING PRECAST CONCRETE ADJUSTING RINGS. IF THE REQUIRED ADJUSTMENT IS 16" OR GREATER, ADDITIONAL MANHOLE SECTIONS SHALL BE INSTALLED BELOW THE CONE. DOWNWARD ADJUSTMENT SHALL BE ACCOMPLISHED BY REMOVING EXISTING MASONRY UNITS AND ADJUSTING TO FINAL GRADE AS OUTLINED ABOVE.
4. WHEN USING PVC PIPE, MANHOLE BASES SHALL BE PRECAST WITH CONNECTION OPENINGS SPECIFICALLY DESIGNED TO ACCOMMODATE THE PIPE CONNECTION STUB AND GASKET. THE INVERT SHALL BE FORMED BY LAYING THE SEWER THROUGH THE MANHOLE. THE BOTTOM SHALL THEN BE SHAPED WITH CLASS SI CONCRETE IN ACCORDANCE WITH CITY STANDARDS, AND THE UPPER HALF OF THE SEWER CAREFULLY SAW CUT AND REMOVED.
5. FOR PIPES LESS THAN 18", 4' DIAMETER MANHOLE SHALL BE USED. FOR PIPES 24"-42", 5' DIAMETER MANHOLE SHALL BE USED.
6. THE METHOD OF SEALING CONNECTION OF SEWER PIPE TO MANHOLE SHALL BE APPROVED BY THE CITY ENGINEER AND SHALL BE SUCH AS TO PROVIDE A WATERTIGHT JUNCTION ELIMINATING ALL INFILTRATION AROUND THE PIPE. MORTAR SHALL NOT BE USED.

ALTERNATE MATERIALS FOR WALLS	D	C*	T (MIN.)
PRECAST REINFORCED CONCRETE RISERS	4'-0"	2'-6"	4"
	5'-0"	3'-9"	5"
MONOLITHIC CONCRETE	4'-0"	2'-6"	6"
	5'-0"	3'-9"	6"

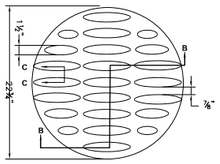
*WHEN USING PRECAST REINFORCED CONCRETE RISERS, DIMENSION "C" MAY VARY FROM THAT GIVEN TO PLUS 6 INCHES.

SANITARY FRAME AND LIDS TYPE 1



PLAN

CAST CLOSED LID SECTION D-D



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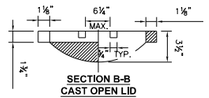
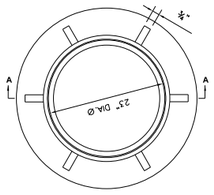
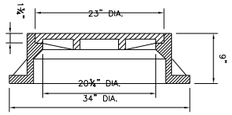


SECTION B-B CAST OPEN LID



PLAN

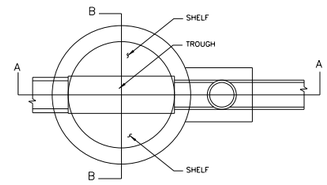


SECTION A-A CAST FRAME

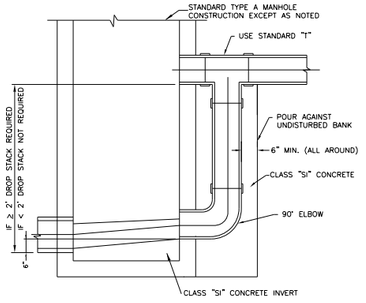
SECTION C-C

NOTES:
1. THE OPEN AND CLOSED LIDS MAY BE MADE OF EITHER GRAY IRON OR DUCTILE IRON.
2. CLOSED LID SHALL HAVE CONCEALED PICKHOLE.
3. CLOSED LID SHALL BE GASKETED IF INSTALLATION IS FOR A SEPARATE SANITARY SEWER.
4. THE LID SHALL BE CAST "STORM" IF INSTALLATION IS FOR A SEPARATE STORM SEWER.
5. THE LID SHALL BE CAST "SANITARY" IF INSTALLATION IS FOR A SEPARATE SANITARY SEWER OR COMBINATION SEWERS, UNLESS OTHERWISE SPECIFIED OR NOTED.
6. THE LID SHALL BE CAST "COMBINED" IF INSTALLATION IS FOR A COMBINED SEWER.

DROP STACK MANHOLE

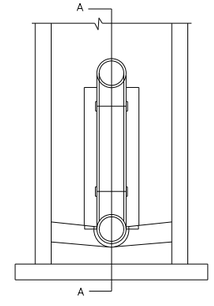


PLAN



SECTION A-A

NOTES:
1. ENTIRE EXCAVATION TO BE BACKFILLED WITH TRENCH BACKFILL MATERIAL, IF ANY EDGE OF EXCAVATION IS WITHIN 2' OF ANY PAVED SURFACE.
2. BACKFILL AROUND PIPE SHALL BE IN ACCORDANCE IDOT STANDARDS.
3. POURED CONCRETE AROUND DROP STACK PIPE WILL NOT BE REQUIRED IF DROP STACK IS PRECAST WITH MANHOLE.



SECTION B-B

4. TO BE USED IN PLACE OF SANITARY MANHOLE WHERE SEWER ENTERS 2'-0" OR MORE ABOVE LOWEST INVERT. NOT TO BE USED FOR INLET OR CATCH BASIN CONNECTIONS.
5. THIS DETAIL APPLIES TO INCOMING SEWER OF 18" DIAMETER OR LESS.
6. FOR INCOMING SEWER SMALLER THAN 12" USE VERTICAL PIPE OF SAME DIAMETER. FOR INCOMING SEWER 12" OR GREATER, USE 12" VERTICAL PIPE.

VERTICAL BEND CONCRETE GRAVITY BLOCKS
TABLE OF MINIMUM BLOCK WEIGHTS IN POUNDS

PIPE SIZE	BEND	PRESSURE 150 psi
4"/6"	45°	4,300
	22 1/2°	2,300
8"	45°	7,500
	22 1/2°	3,900
12"	45°	16,300
	22 1/2°	8,600
16"	45°	28,800
	22 1/2°	15,200
20"	45°	44,800
	22 1/2°	23,700

NOTES:
1. FOR PIPES EQUAL TO OR GREATER THAN 24", CONTRACTOR SHALL DESIGN AND INSTALL THRUST RESTRAINT AND THRUST RESTRAINT SYSTEM.
2. BLOCK WEIGHTS ARE VALID ONLY FOR GRAVITY BLOCKS WHICH ARE ALWAYS ABOVE THE GROUND WATER LEVEL.
3. USE BLOCK WEIGHT FOR 22 1/2° BEND FOR FITTINGS LESS THAN 22 1/2° VERTICAL.

STRUCTURAL NOTES

FOR ALL WATER MAIN AND SANITARY SEWER SPECIAL PROVISIONS, CONTRACTOR SHALL MEET OR EXCEED THE FOLLOWING REQUIREMENTS:

1. ALL EXCAVATION FOR STRUCTURES SHALL BE KEPT DEWATERED DURING CONSTRUCTION OPERATIONS UNTIL BACKFILL IS IN PLACE. PROVISIONS SHALL BE MADE TO PREVENT THE BOTTOM OF ALL EXCAVATIONS FROM FREEZING OR FLOODING AT ALL TIMES.
2. ALL CONCRETE SLABS SUPPORTED ON SOIL SHALL BE PROTECTED AGAINST FROST ACTION AND DANGER FROM HEAVING BY INSULATING THE SLAB WITH A LAYER OF INSULATING MATERIAL THICK ENOUGH TO PREVENT FROST PENETRATION.
3. BACKFILL MATERIAL, PLACING AND COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS. PLACE BACKFILL EQUALLY ON BOTH SIDES OF FOUNDATION WALLS AND STRUCTURES.
4. ALL DIMENSIONS AND ELEVATIONS SHOWN TO EXISTING CONSTRUCTION AND ALL EXISTING CONDITIONS SHALL BE ASSUMED TO BE (±) AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OF MATERIAL. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS PRIOR TO BIDDING THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY CONSTRUCTION REQUIRED FOR, BUT NOT LIMITED TO, SHEETING, SHORING, UNDERPINNING, NEEDLING AND BRACING, FOR THE PROTECTION OF THE EXISTING STRUCTURES, UTILITIES AND ROADWAYS TO REMAIN WHETHER OR NOT SHOWN ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE, SETTLEMENT OR MOVEMENT OF EXISTING AND NEW CONSTRUCTION INSIDE AND OUTSIDE OF THE PROJECT LIMITS DURING EXCAVATION AND CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS, CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENTS OF THE SOIL OR STRUCTURE RETENTION SYSTEM, IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL ALSO PROVIDE ALL NECESSARY MATERIALS, LABOR, AND EQUIPMENT TO MEET RAILROAD REQUIREMENTS FOR SHEETING AND/OR SHORING.
6. (*) – DIMENSIONS NOTED THUS INDICATE DIMENSIONS TO BE DETERMINED BY EQUIPMENT MANUFACTURER OR DIMENSIONS TO BE VERIFIED IN FIELD BASED ON EXISTING CONSTRUCTION.

AECOM
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USER NAME = brooke.henry	DESIGNED - BNH	REVISED -
	DRAWN - BNH	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - RB	REVISED -
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
DETAIL SHEET 2

SCALE: NTS | SHEET 29 OF 31 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	541
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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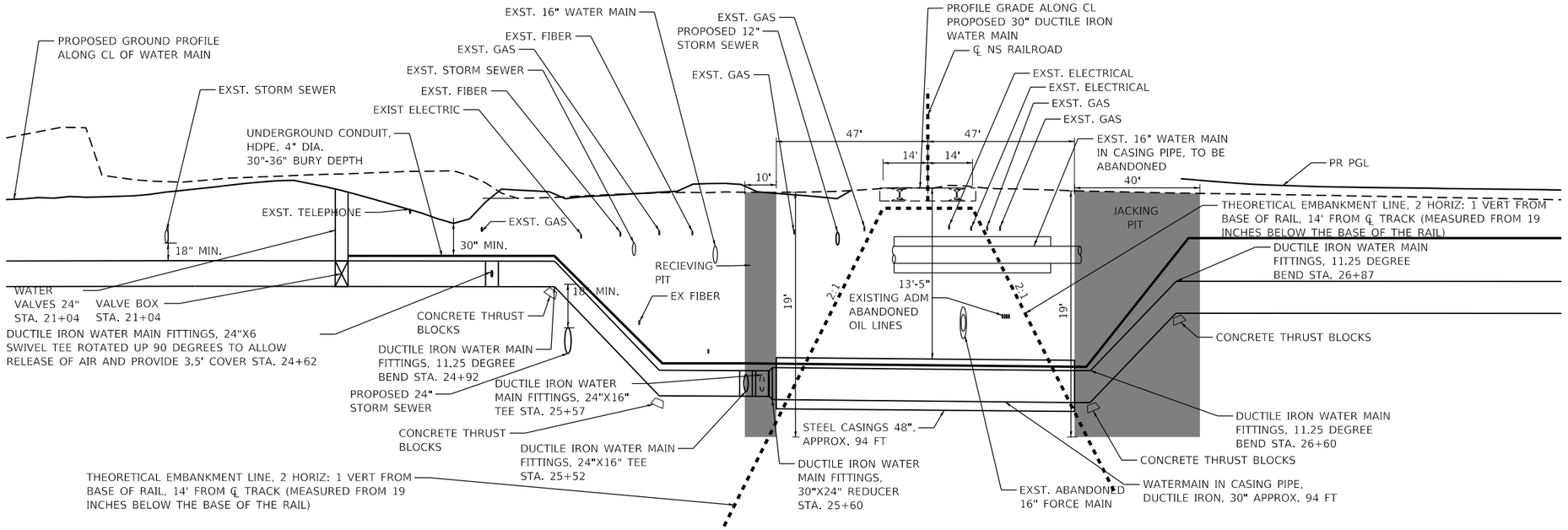

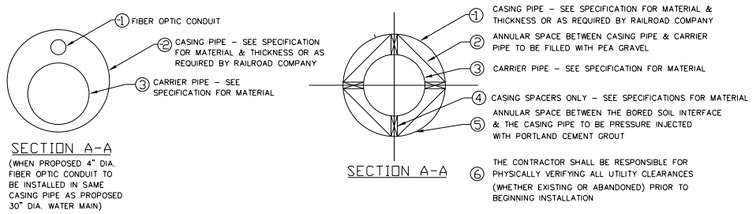

DETAIL OF PIPE INSTALLED IN CASING PIPE UNDER RAILROAD (INSTALLED BY JACKING AND BORING)

NTS

AECOM
345 EAST ASH AVENUE
DECATUR, IL 62526
PHONE: (217) 775-6065

USER NAME = brooke.henry	DESIGNED - BNH	REVISED -	
	DRAWN - BNH	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - RB	REVISED -	
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
DETAIL SHEET 3 – NS RAILROAD CROSSING

SCALE: NTS | SHEET 30 OF 31 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	542
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

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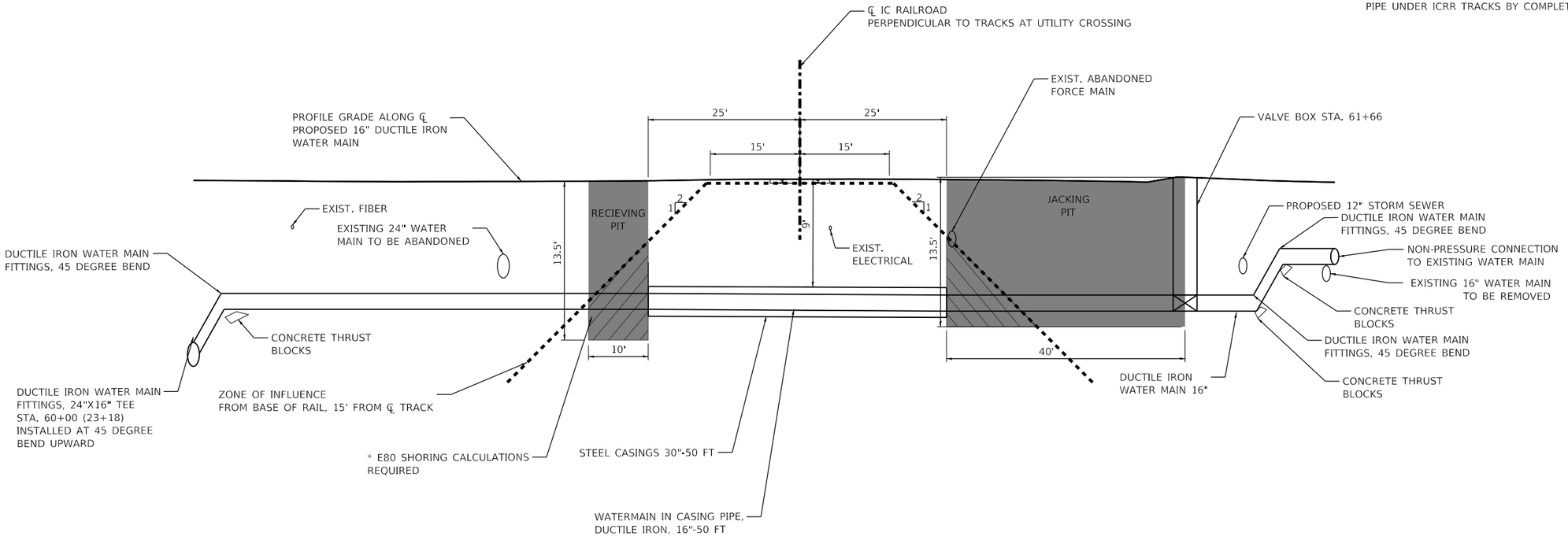
NOTES

1. CARRIER PIPE WILL BE HELD CLEAR OF THE CASING PIPE BY SUPPORTS (STAINLESS STEEL SPACER AS SPECIFIED IN THE SPECIAL PROVISIONS).
2. CASING WILL BE SEALED WITH CONCRETE BRICK AND MORTAR.
3. INSTALL UTILITY WARNING MARKER ON NORTH SIDE OF FARIES IN PARKWAY (SEE DETAIL BELOW).
4. MAXIMUM TEST PRESSURE OF WATER MAIN (CARRIER PIPE) IS 110 PSI.
5. SLOPE CASING PIPE AT 0.3%.
6. ABANDON EXISTING 16" WATER MAIN IN CASING PIPE UNDER ICRR TRACKS BY COMPLETELY FILLING WITH CLSM.



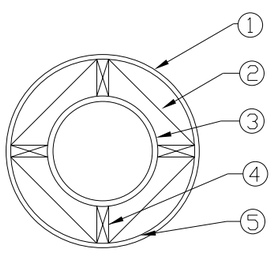
SECTION A–A

LOOKING SOUTH

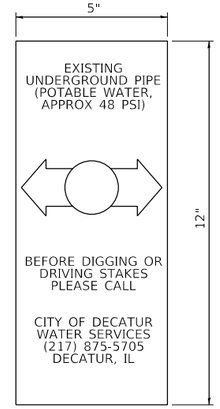
RAILROAD CROSSING PROFILE DETAILS

DETAIL OF CASING PIPE INSTALLED BY DRY JACK AND BORING UNDER RAILROAD TRACKS

NTS



1. STEEL CASING PIPE; WALL THICKNESS = 0.5625"
2. ANNULAR SPACE BETWEEN CASING PIPE & CARRIER PIPE TO BE FILLED WITH PEA GRAVEL
3. DUCTILE IRON PIPE WATER MAIN - CLASS 52 (WALL THICKNESS = 0.40")
4. CASING SPACERS ONLY - SEE SPECIFICATIONS AND NOTE 1 FOR MATERIAL
5. ANNULAR SPACE BETWEEN THE BORED SOIL INTERFACE & THE CASING PIPE TO BE PRESSURE INJECTED WITH PORTLAND CEMENT GROUT
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING IN THE FIELD ALL UTILITY CLEARANCES (WHETHER EXISTING OR ABANDONED PRIOR TO BEGINING INSTALLATION)



MARKING OF UTILITIES ON RAILROAD RIGHT-OF-WAY

NTS

CABLE ROUTE MUST BE MARKED AT EDGE OF RIGHT OF WAY WHERE CABLE ENTERS OR LEAVES RAILROAD PROPERTY. IN CASES OF PARALLEL CABLE ROUTE, SIGNS AS INDICATED IN FIGURE 1 ON THIS EXHIBIT WILL BE PLACED APPROXIMATELY EVERY 200 FEET. SIGNS TO BE OF A PERMANENT VERTICAL TYPE, NOT SMALLER THAN 5 INCHES WIDE BE 12 INCHES HEIGHT. YELLOW BACKGROUND WITH BOLD BLACK LETTERING, SIGNS TO BE MOUNTED ON METAL POSTS OR AS OTHERWISE AGREED TO AT A HEIGHT OF 3 FEET ABOVE GROUND LEVEL.

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DECATUR, IL 62526
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USER NAME = brooke.henry	DESIGNED - BNH	REVISED -	
	DRAWN - BNH	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - RB	REVISED -	
PLOT DATE = 10/27/2021	DATE - 10/22/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RELOCATION PLAN AND SANITARY SEWER ADJUSTMENTS
DETAIL SHEET 4 – IC RAILROAD CROSSING

SCALE: 1"=10' | SHEET 31 OF 31 SHEETS | STA. N/A | TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	543
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING SCHEDULE

SHEET	ROAD	STATION	STATION	MOD URETH PM LTR-SYM SQ FT	MOD URETH PM LINE 4 FOOT	MOD URETH PM LINE 6 FOOT	MOD URETH PM LINE 8 FOOT	MOD URETH PM LINE 12 FOOT	MOD URETH PM LINE 24 FOOT	RAISED REFL PAVT MKR EACH	CURB REFLECTORS EACH	PAINT CURB FOOT	COMMENTS
1	BRUSH	46+59.44	52+00.00		2,082	38		41		35			
2		52+00.00	57+75.00	110	1,504	812	206	37	72	19	33	287	
3		57+75.00	62+50.00	73	2,463	643		98		22	14	52	
4		62+50.00	68+00.00		2,800	276		101		42	15	52	
5		68+00.00	73+50.00	63	1,289	269		240		28	7	63	
6		73+50.00	75+44.21	32	485	97				16			
6		75+44.21	84+56.00	110	1,814	624				69			REPLACEMENT STRIPING FOR MOT IMPACTED AREAS
7 & 8	FARIES	200+32.00	208+90.03		457	563				22			REPLACEMENT STRIPING FOR MOT IMPACTED AREAS
7		205+18.73	208+00.00		474	59				3	30	129	205+18.73 RT & 208+90.03 LT
8		208+00.00	213+25.00	282	1,012	284	4		144	11	30	53	
9		213+25.00	219+00.00	146	936	1,476	168	51	88	30	36	170	
10		219+00.00	224+75.00	146	932	688				17	47	95	
11		224+75.00	230+50.00	120	1,237	328		28		23	32	78	
12		230+50.00	235+41.47	37	1,859	177		283		58			
12		235+41.47	239+99.00	73	1,068	305		128		26			REPLACEMENT STRIPING FOR MOT IMPACTED AREAS
13	JUG	301+75.00	306+50.00	401	1,340	1,291	377	1,122	98	21	174	985	INCLUDES BRUSH COLLEGE RD & FARIES PKWY INTERSECTIONS
14	LOGAN	601+50.00	607+50.00		1,654	128		22	28		18	112	INCLUDES CONNECTOR RD & N JAMES ST INTERSECTIONS
15	JAMES	404+27.90	407+75.00	37	1,228	143		421	70				INCLUDES FARIES PKWY INTERSECTION
16	HARRISON W	800+00.00	804+50.00		782								
17		804+50.00	808+00.00	62	1,512				73				INCLUDES BRUSH COLLEGE RD INTERSECTION & BUSINESS DRIVES
18	HARRISON E	701+00.00	705+00.00		874				19				INCLUDES BRUSH COLLEGE RD INTERSECTION
19		705+00.00	708+41.73		684								
19	CEMETERY	900+00.00	904+52.12						25				
TOTAL				1,692	28,486	8,201	755	2,572	617	442	436	2,077	

SIGNING SCHEDULE

SHEET	ROAD	STATION	STATION	STA	LOC	TYPE	DESCRIPTION	W (INCH)	H (INCH)	SIGN PANEL T1 SQ FT	SIGN PANEL T2 SQ FT	TELES STL SIN SUPPORT FOOT	COMMENTS
1	BRUSH	46+59.44	52+00.00	51+95.0	RT	D3-2	ADVANCE STREET NAMES (2 LINES)	60	30	-	12.5	31.0	FARIES PKWY NEXT RIGHT - TWO POSTS
2		52+00.00	57+75.00	54+33.6	RT	D1-1d	CIRCULAR INTERSECTION DESTINATION (1 LINE)	78	18	-	9.8	32.0	FARIES PKWY (RIGHT ARROW) - TWO POSTS
						R3-24	ALL TURNS (RIGHT ARROW)	72	18	9.0	-		
				54+94.5	LT	R4-7	KEEP RIGHT	24	30	5.0	-	16.0	
				56+24.2	LT	R3-8	MODIFIED	30	30	6.3	-	16.0	DUAL LEFT TURN ONLY (BACK TO BACK)
						R4-7	KEEP RIGHT	24	30	5.0	-		
3		57+75.00	62+50.00	58+03.2	LT	R3-8	MODIFIED	30	30	6.3	-	34.0	DUAL LEFT TURN ONLY - TWO POSTS
						D1-1d	CIRCULAR INTERSECTION DESTINATION (1 LINE)	78	18	-	9.8		FARIES PKWY (LEFT ARROW)
				59+00.0	RT	W4-2	LANE ENDS	36	36	9.0	-	18.0	
4		62+50.00	68+00.00	65+95.7	LT	OM4-2	OBJECT MARKER	18	18	2.3	-	16.0	AT THE END OF OLD E HARRISON AVE AND RR TRACK
				66+03.1	LT	R11-I100	ROAD ENDS	36	30	7.5	-	16.0	AT THE END OF OLD E HARRISON AVE AND RR TRACK
				66+10.6	LT	OM4-2	OBJECT MARKER	18	18	2.3	-	16.0	AT THE END OF OLD E HARRISON AVE AND RR TRACK
5		68+00.00	73+50.00	68+83.1	LT	R4-7	KEEP RIGHT	24	30	5.0	-	16.0	
				69+40.0	LT	W1-7	TWO-DIRECTION	48	24	8.0	-	30.0	TWO POSTS
				71+68.9	RT	M1-6	COUNTY ROUTE SIGN	24	24	4.0	-	18.0	MACON CO 1
						R5-I101	BEGIN CLASS II TRUCK ROUTE	24	30	5.0	-		
				71+90.0	LT	R2-1	SPEED LIMIT	30	36	RELOC	-	16.0	RELOCATE - SPEED LIMIT, 35 MPH
				73+16.0	LT	D3-1	STREET NAME	60	9	3.8	-	15.0	N BRUSH COLLEGE RD
						D3-1	STREET NAME	48	9	3.0	-		E HARRISON AVE
6		73+50.00	76+25.97										
SUB-TOTAL										81.3	32.0	290.0	

SIGNING SCHEDULE

SHEET	ROAD	STATION	STATION	STA	LOC	TYPE	DESCRIPTION	W (INCH)	H (INCH)	SIGN PANEL T1 SQ FT	SIGN PANEL T2 SQ FT	TELES STL SIN SUPPORT FOOT	COMMENTS
7		205+18.73	208+00.00	-	-	-	-	-	-	-	-		
8		208+00.00	213+25.00	208+51.2	RT	W10-1	GRADE CROSSING ADVANCE WARNING	36 DIA.	-	7.1	-	16.0	RAILROAD
				209+56.0	RT	R8-10a	STOP HERE WHEN FLASHING	24	30	5.0	-	16.0	
				210+05.0	LT	R8-10a	STOP HERE WHEN FLASHING	24	30	5.0	-	16.0	
				210+75.8	RT	D3-2	ADVANCE STREET NAMES (2 LINES)	78	30	-	16.3	31.0	BRUSH COLLEGE RD NEXT RIGHT - TWO POSTS
				211+52.9	LT	W10-1	GRADE CROSSING ADVANCE WARNING	36 DIA.	-	7.1	-	16.0	RAILROAD
9	FARIES	213+25.00	219+00.00	213+95.6	RT	D1-1c	CIRCULAR INTERSECTION DESTINATION (1 LINE)	96	18	-	12.0	32.0	BRUSH COLLEGE RD (RIGHT ARROW) - TWO POSTS
						R3-24	ALL TURNS (RIGHT ARROW)	72	18	9.0	-		
				214+23.3	RT	R4-7	KEEP RIGHT	24	30	5.0	-	16.0	
				215+59.3	RT	R3-8	MODIFIED	30	30	6.3	-	16.0	DUAL LEFT TURN ONLY (BACK TO BACK)
						R4-7	KEEP RIGHT	24	30	5.0			
				218+42.4	RT	W4-2	LANE ENDS	36	36	9.0	-	18.0	
10		219+00.00	224+75.00	219+74.6	LT	R3-8	MODIFIED	60	30	-	12.5	34.0	DUAL LEFT TURN ONLY & DUAL THRU LANE - TWO POSTS
						D1-1c	CIRCULAR INTERSECTION DESTINATION (1 LINE)	96	18	-	12.0		BRUSH COLLEGE RD (LEFT ARROW)
				222+50.0	LT	R2-1	SPEED LIMIT, 35 MPH	30	36	7.5	-	16.0	
				223+00.0	LT	R3-5L	LEFT TURN ONLY	30	36	7.5	-	16.0	BACK TO BACK
						R4-7	KEEP RIGHT	24	30	5.0			
				224+26.1	LT	R3-5L	LEFT TURN ONLY	30	36	7.5	-	16.0	BACK TO BACK
						R4-7	KEEP RIGHT	24	30	5.0			
11		224+75.00	230+50.00	226+40.0	LT	W9-1	LEFT LANE ENDS	36	36	9.0	-	18.0	
12		230+50.00	235+41.47	234+00.0	LT	R8-3	NO PARKING	30	30	6.3	-	16.0	
13	JUG	301+75.00	306+50.00	300+84.0	LT	R4-7	KEEP RIGHT	24	30	5.0	-	16.0	
				302+00.0	RT	D3-2	ADVANCE STREET NAMES (2 LINES)	48	30	-	10.0	31.0	LOGAN ST NEXT RIGHT - TWO POSTS
				303+00.0	LT	R3-7R	RIGHT LANE MUST TURN RIGHT	36	36	9.0	-	16.0	
				303+00.0	CENTER	R3-8	MODIFIED	30	30	6.3	-	16.0	DUAL LEFT TURN ONLY
				304+25.0	RT	D1-1c	CIRCULAR INTERSECTION DESTINATION (1 LINE)	60	18	7.5	-	29.0	LOGAN ST (RIGHT ARROW) - TWO POSTS
				304+56.7	CENTER	R6-1R	ONE WAY	54	18	6.8	-	29.0	TWO POSTS
				305+24.2	CENTER	R3-8	MODIFIED	30	30	6.3	-	16.0	DUAL LEFT TURN ONLY
				305+24.2	RT	R3-7R	RIGHT LANE MUST TURN RIGHT	36	36	9.0	-	16.0	
				307+26.5	RT	R3-8	MODIFIED	30	30	6.3	-	16.0	DUAL LEFT TURN ONLY (BACK TO BACK)
						R4-7	KEEP RIGHT	24	30	5.0			
14	LOGAN	601+50.00	607+50.00	600+48.3	LT	R3-2	NO LEFT TURN	36	36	9.0	-	16.0	
				600+90.0	LT	R1-1	STOP SIGN	36	36	7.0	-	19.0	
						R3-5R	RIGHT TURN ONLY	30	36	7.5	-		
				601+50.0	LT	W11-2	PEDESTRIAN	36	36	9.0	-	19.0	
						W16-9P	AHEAD	24	12	2.0	-		
				608+91.9	RT	R1-1	STOP SIGN	36	36	7.0	-	17.0	
						R1-3P	ALL WAY	18	6	0.8	-		
15	JAMES	607+50.00	407+75.00	404+41.5	RT	R1-1	STOP SIGN	36	36	7.0	-	17.0	
						R1-3P	ALL WAY	18	6	0.8	-		
				405+21.2	LT	D3-1	STREET NAME	36	9	2.3	-	19.0	N JAMES ST
						D3-1	STREET NAME	36	9	2.3	-		E LOGAN ST
						R1-1	STOP SIGN	36	36	7.0	-		
						R1-3P	ALL WAY	18	6	0.8	-		
				408+66.2	RT	D-3	STREET NAME	36	9	2.3	-	19.0	N JAMES ST
						D-3	STREET NAME	42	9	2.6	-		E FARIES PKWY
						R1-1	STOP SIGN	36	36	7.0	-		
						W4-4P	CROSS TRAFFIC DOES NOT STOP	24	12	2.0	-		
16	HARRISON W	800+00.00	804+50.00	799+83.0	RT	W14-1	DEAD END	30	30	6.3	-	17.0	
17		804+50.00	808+00.00	809+63.9	RT	R1-1	STOP SIGN	36	36	7.0	-	16.0	
				809+83.0	RT	R1-1	STOP SIGN	36	36	7.0	-	16.0	
18	HARRISON E	701+00.00	705+00.00	700+66.9	LT	R1-1	STOP SIGN	36	36	7.0	-	19.0	
						W4-4P	CROSS TRAFFIC DOES NOT STOP	24	12	2.0	-		
						D3-1	STREET NAME	60	9	3.0	-		N BRUSH COLLEGE RD
						D3-1	STREET NAME	48	9	3.0	-		E HARRISON AVE
				702+00.0	LT	W11-2	PEDESTRIAN	36	36	9.0	-	19.0	
						W16-9P	AHEAD	24	12	2.0	-		
19		705+00.00	708+41.73	-	-	-	-	-	-	-	-		
20	CEMETERY	900+00.00	904+52.12	900+24.8	LT	R1-1	STOP SIGN	36	36	7.0	-	16.0	
				904+37.9	RT	R1-1	STOP SIGN	36	36	7.0	-	16.0	

SUB-TOTAL	304.5	62.8	723.0
SUB-TOTAL PAGE 1	81.3	32.0	290.0
TOTAL	386	95	1013

NOTES: 1. ALL STATIONS ARE APPROXIMATE. SIGNS SHALL BE ERECTED ACCORDING TO HIGHWAY STANDARD 720006.

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS LICENSE NO.
Illinois Professional Design Firm 184.004773
Professional Engineering Group 20-5080586

USER NAME = rjo	DESIGNED - LDC	REVISED -
	DRAWN - RJO	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRUSH COLLEGE ROAD & FARIES PARKWAY
PAVEMENT MARKING & SIGNING SCHEDULES

SCALE: | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	545
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

SIGNING REMOVAL SCHEDULE

SHEET	ROAD	STATION	STATION	STA	LOC	TYPE	DESCRIPTION	SIGN REMOVAL EACH	COMMENTS
2	BRUSH	52+00.00	57+75.00	52+60	RT	R1-1	STOP SIGN	1	
				52+64	RT	D3-1	STREET NAME	1	OLIVE ST
						D3-1	STREET NAME		BRUSH COLLEGE RD
				57-14	RT	R8-3	NO PARKING	1	
				57+18	RT	D3-1	STREET NAME	1	LOGAN ST
						D3-1	STREET NAME		BRUSH COLLEGE RD
						R1-1	STOP SIGN		
3		57+75.00	62+50.00	59+12	LT	W4-2R	LANE ENDS	1	
				60+78	RT	R15-1	GRADE CROSSING (CROSS BUCK)	1	MOUNTED ON SIGNAL POST
						D3-1	STREET NAME		BRUSH COLLEGE RD - MOUNTED ON SIGNAL MAST ARM
				60+78	LT	R15-1	GRADE CROSSING (CROSS BUCK)	1	MOUNTED ON SIGNAL TRUSS POST
						R15-1	GRADE CROSSING (CROSS BUCK)		MOUNTED ON SIGNAL TRUSS
						R15-1	GRADE CROSSING (CROSS BUCK)		MOUNTED ON SIGNAL TRUSS
						R15-1	GRADE CROSSING (CROSS BUCK)		MOUNTED ON SIGNAL TRUSS
						R-SPECIAL	WATCH FOR TRAIN WHEN FLASHING		MOUNTED ON SIGNAL TRUSS
				60+81	LT	R10-11a	NO TURN ON RED	1	MOUNTED ON SIGNAL POST
						D3-1	STREET NAME		FARIES PKWY - MOUNTED ON SIGNAL MAST ARM
				61+80	RT	R15-1	GRADE CROSSING (CROSS BUCK)	1	MOUNTED ON SIGNAL POST
				61+83	LT	R-SPECIAL	WATCH FOR TRAIN WHEN FLASHING	1	MOUNTED ON SIGNAL TRUSS
						R15-1	GRADE CROSSING (CROSS BUCK)		MOUNTED ON SIGNAL TRUSS
						R15-1	GRADE CROSSING (CROSS BUCK)		MOUNTED ON SIGNAL TRUSS
						D3-1	STREET NAME		MOUNTED ON SIGNAL TRUSS
				62+08	RT		EMERGENCY - CALL NUMBERS	1	MOUNTED ON SIGNAL POST
						D3-1	STREET NAME		MOUNTED ON SIGNAL TRUSS
						R15-1	GRADE CROSSING (CROSS BUCK)		MOUNTED ON SIGNAL TRUSS
						R15-1	GRADE CROSSING (CROSS BUCK)		MOUNTED ON SIGNAL TRUSS
						R-SPECIAL	WATCH FOR TRAIN WHEN FLASHING		MOUNTED ON SIGNAL TRUSS
				62+08	LT		EMERGENCY - CALL NUMBERS	1	MOUNTED ON SIGNAL POST
						R-SPECIAL	WATCH FOR TRAIN WHEN FLASHING		MOUNTED ON SIGNAL TRUSS
						R15-1	GRADE CROSSING (CROSS BUCK)		MOUNTED ON SIGNAL TRUSS
						R15-1	GRADE CROSSING (CROSS BUCK)		MOUNTED ON SIGNAL TRUSS
						R15-1	GRADE CROSSING (CROSS BUCK)		MOUNTED ON SIGNAL TRUSS POST
							EMERGENCY - CALL NUMBERS		MOUNTED ON SIGNAL POST
4		62+50.00	68+00.00	63+87	RT	R5-I101	BEGIN TRUCK ROUTE	1	
						M1-6	COUNTY ROUTE SIGN		
				64+48	LT	W10-1	GRADE CROSSING ADVANCE WARNING	1	
				64+71	RT	W10-3L	GRADE CROSSING AND INTERSECTION ADVANCE WARNING	1	
				65+44	LT	R3-9dP	END	1	
						R3-9b	TWO-WAY LEFT TURN ONLY (POST MOUNTED)		
				65+80	LT	R15-1	GRADE CROSSING (CROSS BUCK)	1	
				65+83	LT	R1-1	STOP SIGN	1	
				66+22	LT	W14-2	NO OUTLET	1	
				66+35	LT	R15-1	GRADE CROSSING (CROSS BUCK)	1	
						R1-2	YIELD		
				66+39	LT	D3-1	STREET NAME	1	E HARRISON AV
						D3-1	STREET NAME		N BRUSH COLLEGE RD
				66+57	RT	R3-9cP	BEGIN	1	
						R3-9b	TWO-WAY LEFT TURN ONLY (POST MOUNTED)		
				67+22	LT	W10-3R	GRADE CROSSING AND INTERSECTION ADVANCE WARNING	1	
5		68+00.00	73+50.00	68+45	RT		UNKNOWN	1	
				68+74	LT	R3-9b	TWO-WAY LEFT TURN ONLY (POST MOUNTED)	1	
				69+65	RT	R1-1	STOP SIGN	1	
				69+69	RT	D3-1	STREET NAME	1	E HARRISON AV
						D3-1	STREET NAME		N BRUSH COLLEGE RD
				70+08	LT	R15-1	GRADE CROSSING (CROSS BUCK)	1	
						R1-2	YIELD		
				70+63	LT	R15-1	GRADE CROSSING (CROSS BUCK)	1	
				71+96	LT	R2-1	SPEED LIMIT	1	35 MPH
9	FARIES	213+25.00	219+00.00	215+83	RT	W4-2R	LANE ENDS	1	
10		219+00.00	224+75.00	222+34	RT	R4-1	DO NOT PASS	1	
				222+63	LT	R2-1	SPEED LIMIT	1	35 MPH - MOUNTED ON UTILITY POLE
12		230+50.00	235+41.47	234+32	LT	R7-#	NO PARKING	1	

TOTAL	34

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5080586

USER NAME = rjo	DESIGNED - LDC	REVISED -
	DRAWN - RJO	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

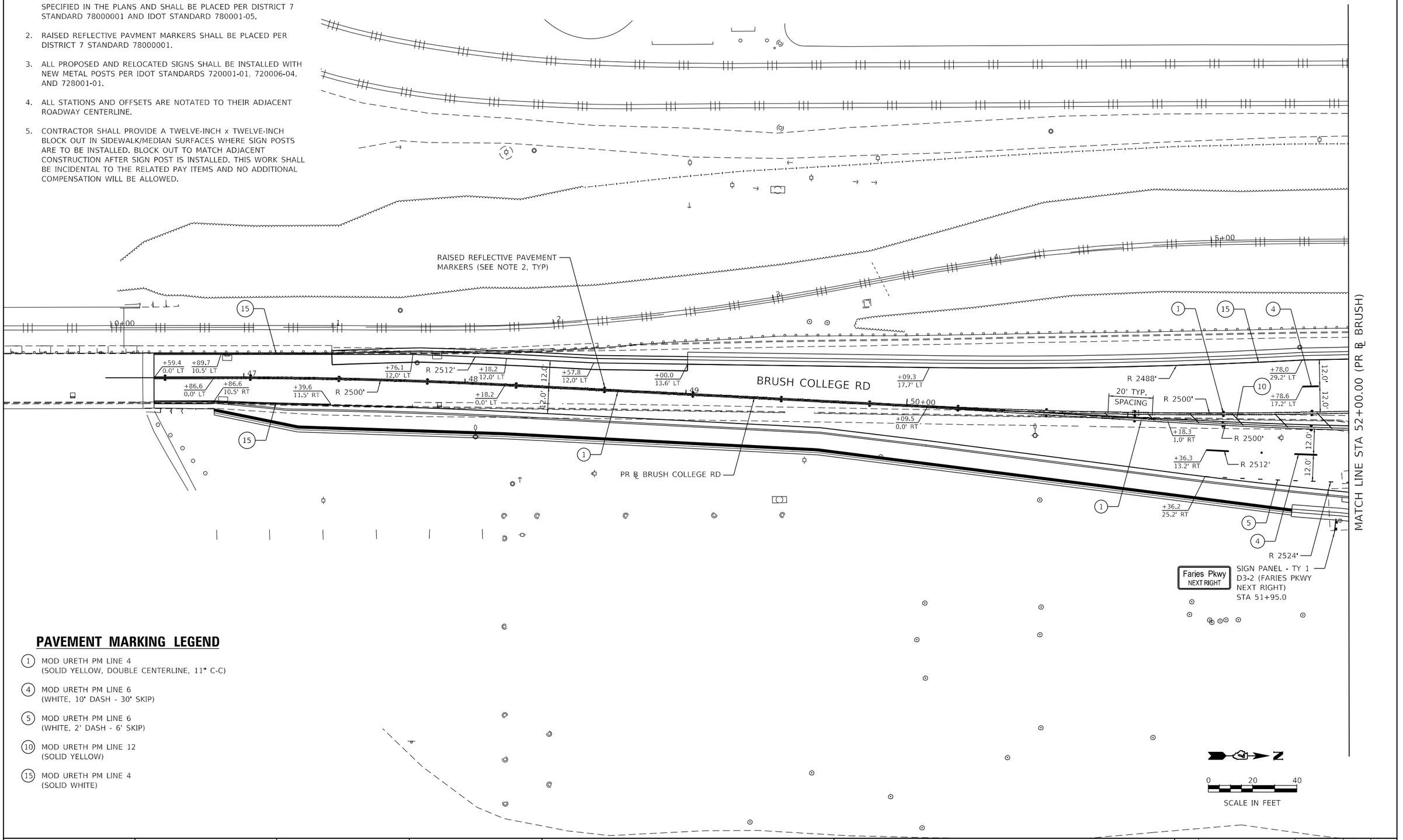
BRUSH COLLEGE ROAD & FARIES PARKWAY
PAVEMENT MARKING & SIGNING SCHEDULES

SCALE: | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	546
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001 AND IDOT STANDARD 780001-05.
2. RAISED REFLECTIVE PAVMENT MARKERS SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001.
3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW METAL POSTS PER IDOT STANDARDS 720001-01, 720006-04, AND 728001-01.
4. ALL STATIONS AND OFFSETS ARE NOTATED TO THEIR ADJACENT ROADWAY CENTERLINE.
5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4
(SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)

(4) MOD URETH PM LINE 6
(WHITE, 10' DASH - 30' SKIP)

(5) MOD URETH PM LINE 6
(WHITE, 2' DASH - 6' SKIP)

(10) MOD URETH PM LINE 12
(SOLID YELLOW)

(15) MOD URETH PM LINE 4
(SOLID WHITE)

MODEL: Default
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Kaskaskia Engineering Group, LLC PROFESSIONAL REGISTRATIONS — LICENSE NO. Illinois Professional Design Firm — 184.004773 Professional Engineering Group — 20-5006586	USER NAME = rjo	DESIGNED - NDP	REVISED -
		DRAWN - NDP	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
	PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRUSH COLLEGE ROAD
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 1 OF 20 SHEETS | STA. 46+59.44 TO STA. 52+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	547
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

PAVEMENT MARKING & SIGNING NOTES

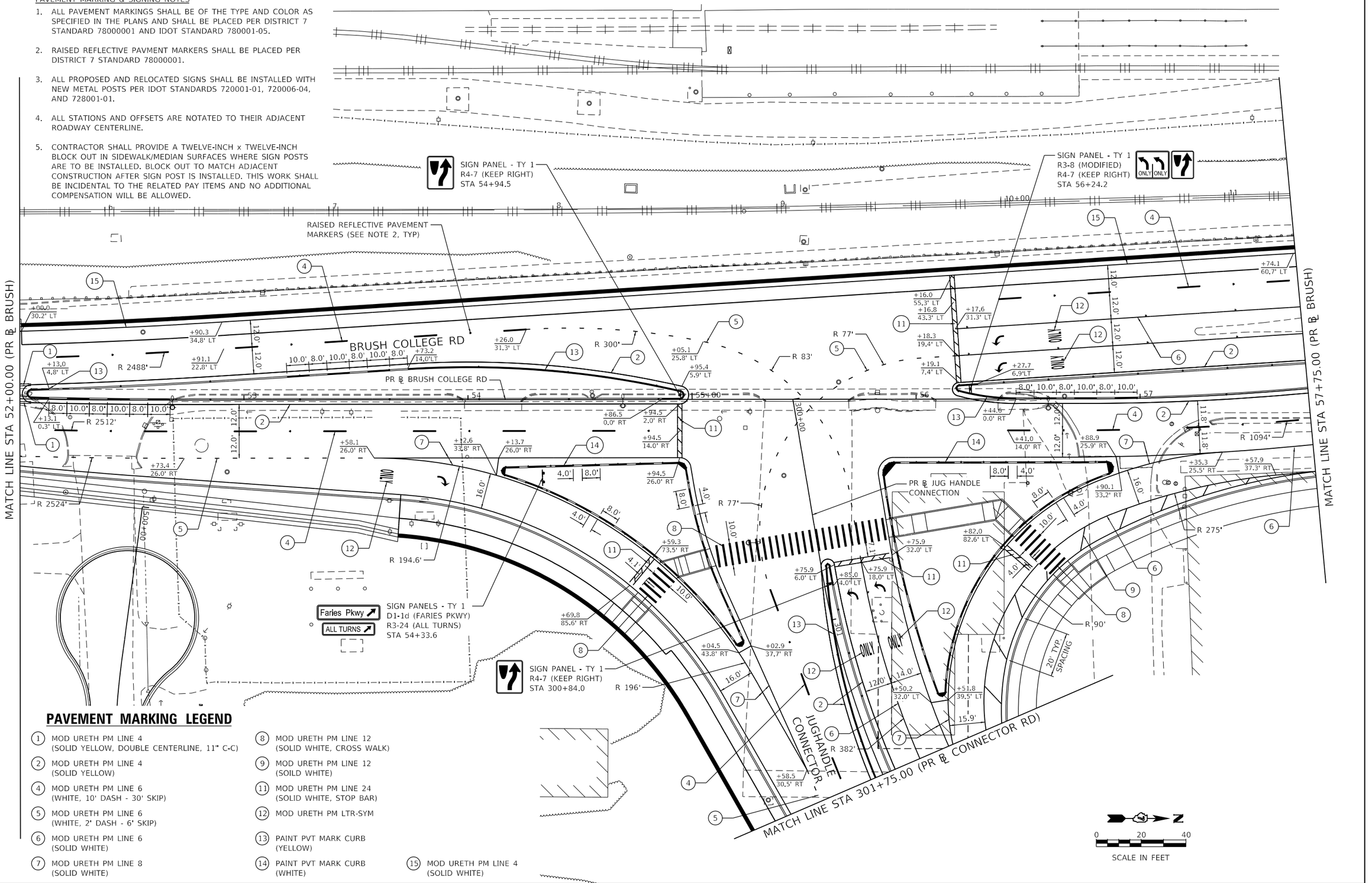
1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001 AND IDOT STANDARD 780001-05.

2. RAISED REFLECTIVE PAVMENT MARKERS SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001.

3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW METAL POSTS PER IDOT STANDARDS 720001-01, 720006-04, AND 728001-01.

4. ALL STATIONS AND OFFSETS ARE NOTATED TO THEIR ADJACENT ROADWAY CENTERLINE.

5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



PAVEMENT MARKING LEGEND

1. MOD URETH PM LINE 4 (SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)
2. MOD URETH PM LINE 4 (SOLID YELLOW)
4. MOD URETH PM LINE 6 (WHITE, 10' DASH - 30' SKIP)
5. MOD URETH PM LINE 6 (WHITE, 2' DASH - 6' SKIP)
6. MOD URETH PM LINE 6 (SOLID WHITE)
7. MOD URETH PM LINE 8 (SOLID WHITE)
8. MOD URETH PM LINE 12 (SOLID WHITE, CROSS WALK)
9. MOD URETH PM LINE 12 (SOILD WHITE)
11. MOD URETH PM LINE 24 (SOLID WHITE, STOP BAR)
12. MOD URETH PM LTR-SYM
13. PAINT PVT MARK CURB (YELLOW)
14. PAINT PVT MARK CURB (WHITE)
15. MOD URETH PM LINE 4 (SOLID WHITE)

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5080586

USER NAME = rjo	DESIGNED - NDP	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRUSH COLLEGE ROAD
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 2 OF 20 SHEETS | STA. 52+00.00 TO STA. 57+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	548
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
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PAVEMENT MARKING & SIGNING NOTES

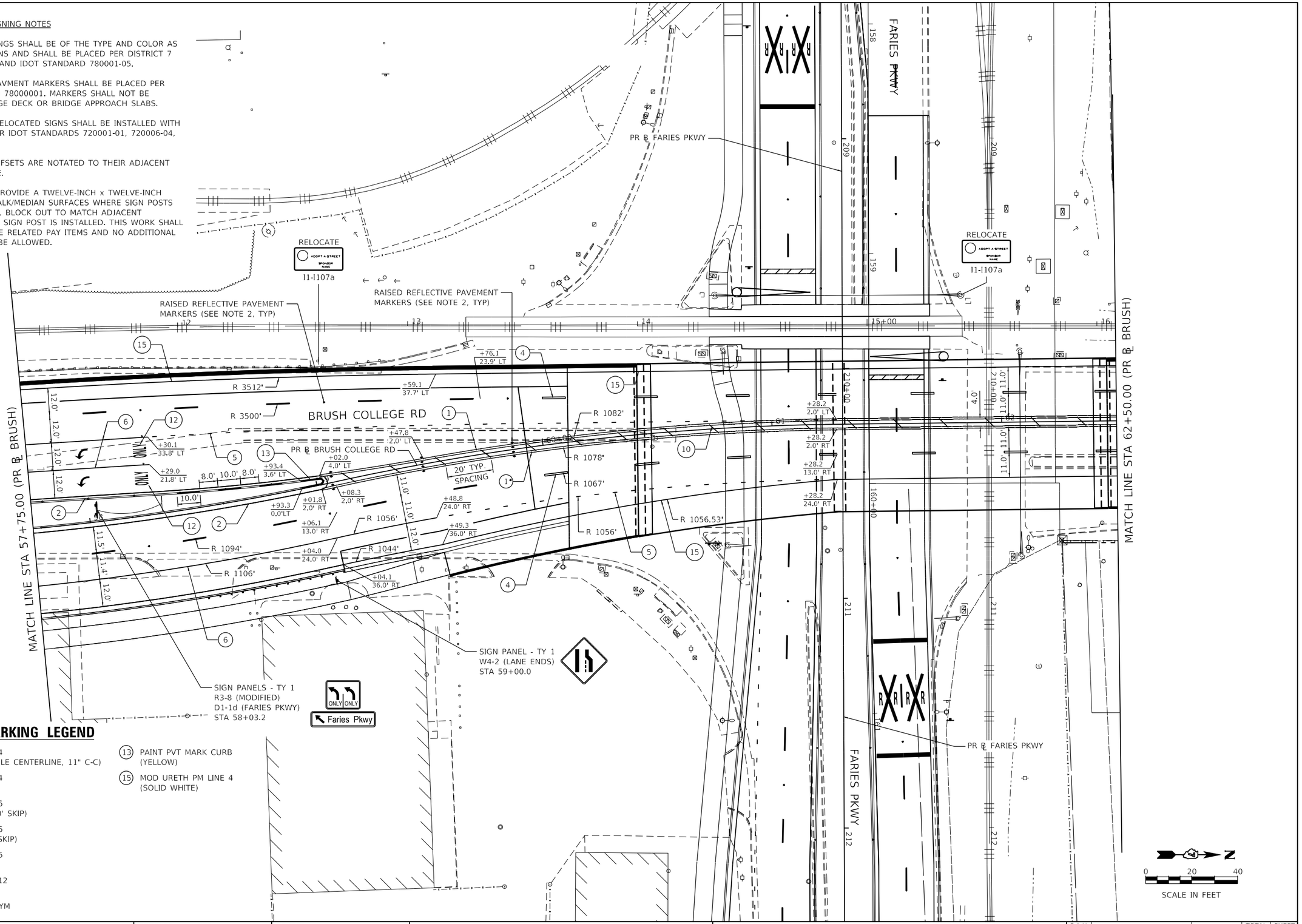
1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001 AND IDOT STANDARD 780001-05.

2. RAISED REFLECTIVE PAVMENT MARKERS SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001. MARKERS SHALL NOT BE PLACED ON THE BRIDGE DECK OR BRIDGE APPROACH SLABS.

3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW METAL POSTS PER IDOT STANDARDS 720001-01, 720006-04, AND 728001-01.

4. ALL STATIONS AND OFFSETS ARE NOTATED TO THEIR ADJACENT ROADWAY CENTERLINE.

5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4 (SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)

(2) MOD URETH PM LINE 4 (SOLID YELLOW)

(4) MOD URETH PM LINE 6 (WHITE, 10' DASH - 30' SKIP)

(5) MOD URETH PM LINE 6 (WHITE, 2' DASH - 6' SKIP)

(6) MOD URETH PM LINE 6 (SOLID WHITE)

(10) MOD URETH PM LINE 12 (SOLID YELLOW)

(12) MOD URETH PM LTR-SYM

(13) PAINT PVT MARK CURB (YELLOW)

(15) MOD URETH PM LINE 4 (SOLID WHITE)

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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5080586

USER NAME = rjo	DESIGNED - NDP	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

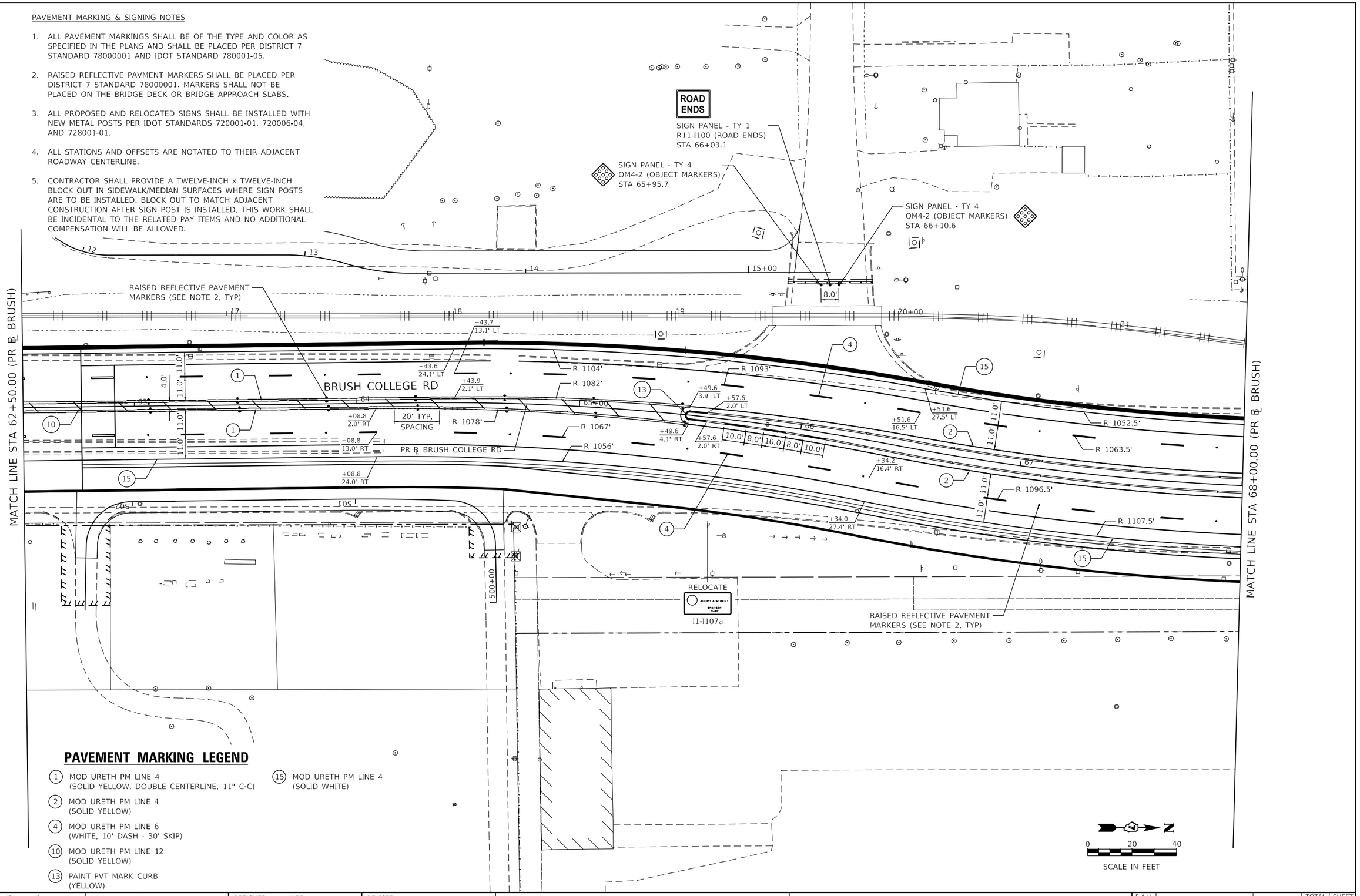
BRUSH COLLEGE ROAD
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 3 OF 20 SHEETS | STA. 57+75.00 TO STA. 62+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	549
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001 AND IDOT STANDARD 780001-05.
2. RAISED REFLECTIVE PAVMENT MARKERS SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001. MARKERS SHALL NOT BE PLACED ON THE BRIDGE DECK OR BRIDGE APPROACH SLABS.
3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW METAL POSTS PER IDOT STANDARDS 720001-01, 720006-04, AND 728001-01.
4. ALL STATIONS AND OFFSETS ARE NOTATED TO THEIR ADJACENT ROADWAY CENTERLINE.
5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.



PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4 (SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)
(2) MOD URETH PM LINE 4 (SOLID YELLOW)
(4) MOD URETH PM LINE 6 (WHITE, 10' DASH - 30' SKIP)
(10) MOD URETH PM LINE 12 (SOLID YELLOW)
(13) PAINT PVT MARK CURB (YELLOW)
(15) MOD URETH PM LINE 4 (SOLID WHITE)

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Kaskaskia Engineering Group, LLC PROFESSIONAL REGISTRATIONS — LICENSE NO. Illinois Professional Design Firm — 184.004773 Professional Engineering Group — 20-5080586	USER NAME = rjo	DESIGNED - NDP	REVISED -
		DRAWN - NDP	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
	PLOT DATE = 10/21/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRUSH COLLEGE ROAD
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 4 OF 20 SHEETS | STA. 62+50.0 TO STA. 68+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	550
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001 AND IDOT STANDARD 780001-05.
2. RAISED REFLECTIVE PAVMENT MARKERS SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001.
3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW METAL POSTS PER IDOT STANDARDS 720001-01, 720006-04, AND 728001-01.
4. ALL STATIONS AND OFFSETS ARE NOTATED TO THEIR ADJACENT ROADWAY CENTERLINE.
5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4 (SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)
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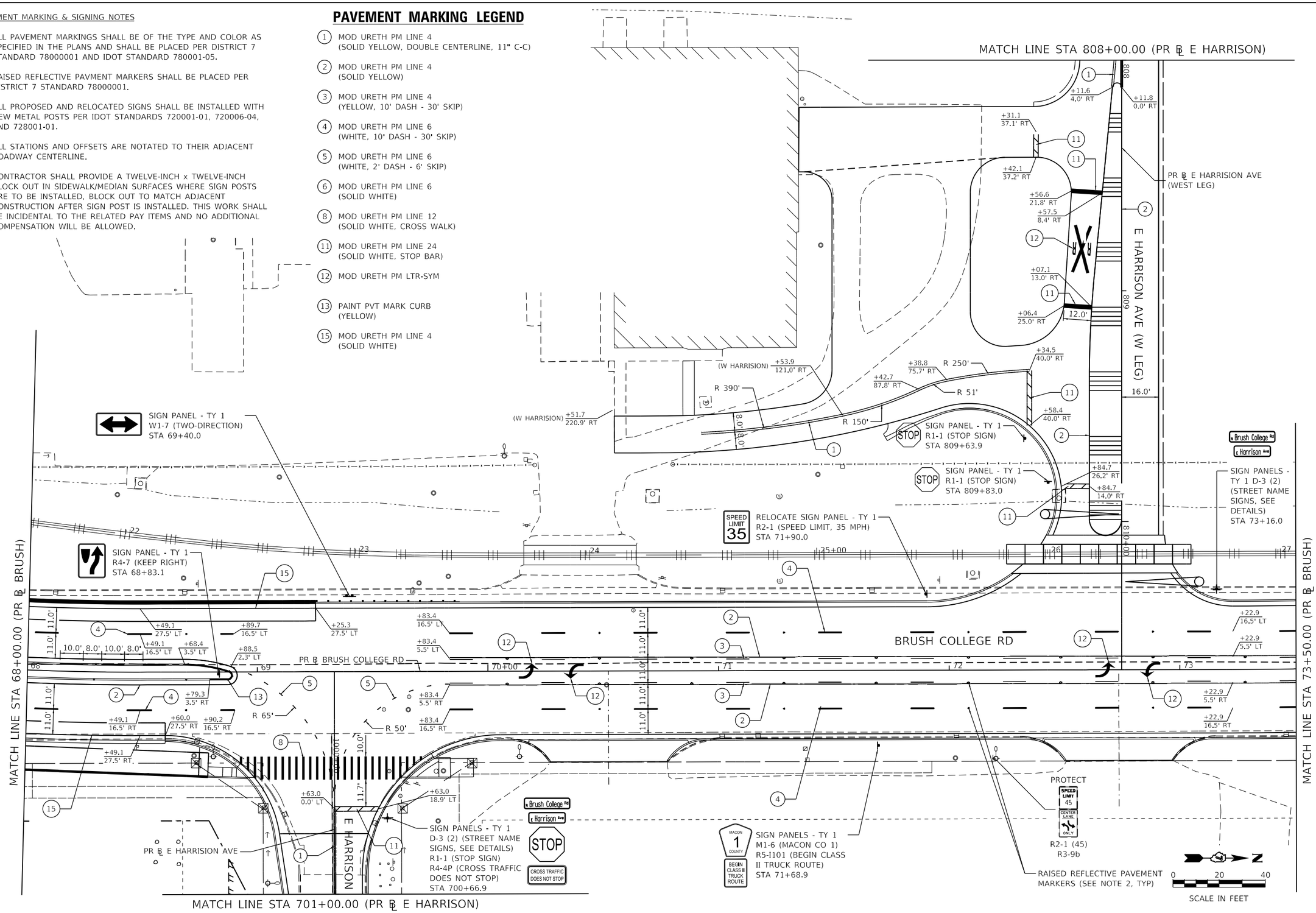
(4) MOD URETH PM LINE 6 (WHITE, 10' DASH - 30' SKIP)
(5) MOD URETH PM LINE 6 (WHITE, 2' DASH - 6' SKIP)
(6) MOD URETH PM LINE 6 (SOLID WHITE)
(8) MOD URETH PM LINE 12 (SOLID WHITE, CROSS WALK)
(11) MOD URETH PM LINE 24 (SOLID WHITE, STOP BAR)
(12) MOD URETH PM LTR-SYM
(13) PAINT PVT MARK CURB (YELLOW)
(15) MOD URETH PM LINE 4 (SOLID WHITE)



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Kaskaskia Engineering Group, LLC PROFESSIONAL REGISTRATIONS LICENSE NO. Illinois Professional Design Firm 184.004753 Professional Engineering Group 20-5080586	USER NAME = rjo	DESIGNED - NDP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRUSH COLLEGE ROAD PAVEMENT MARKING & SIGNING PLAN
		DRAWN - NDP	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -		SCALE: 1"=20' SHEET 5 OF 20 SHEETS STA. 68+00.00 TO STA. 73+50.00
	PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	551
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001 AND IDOT STANDARD 780001-05.

2. RAISED REFLECTIVE PAVMENT MARKERS SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001.

3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW METAL POSTS PER IDOT STANDARDS 720001-01, 720006-04, AND 728001-01.

4. ALL STATIONS AND OFFSETS ARE NOTATED TO THEIR ADJACENT ROADWAY CENTERLINE.

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PAVEMENT MARKING LEGEND

1. MOD URETH PM LINE 4 (SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)
2. MOD URETH PM LINE 4 (SOLID YELLOW)
3. MOD URETH PM LINE 4 (YELLOW, 10' DASH - 30' SKIP)
4. MOD URETH PM LINE 6 (WHITE, 10' DASH - 30' SKIP)
5. MOD URETH PM LINE 6 (WHITE, 2' DASH - 6' SKIP)
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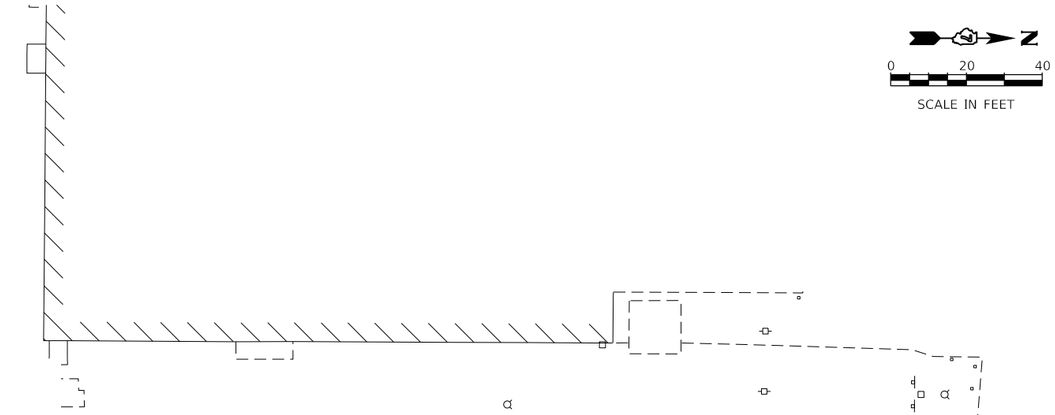
12. MOD URETH PM LTR-SYM



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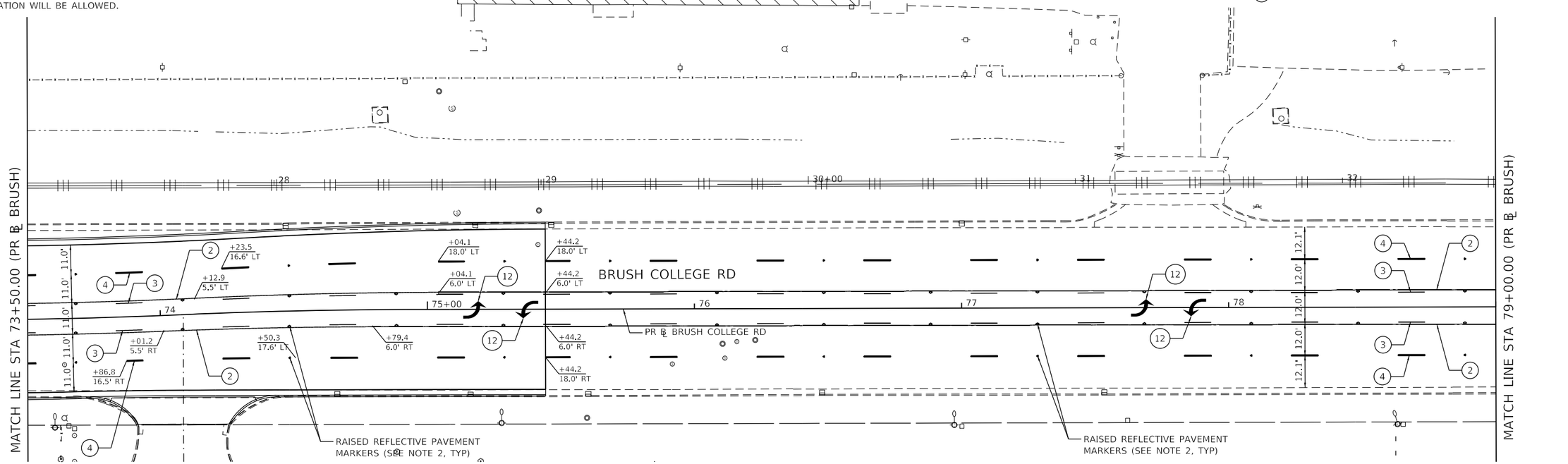
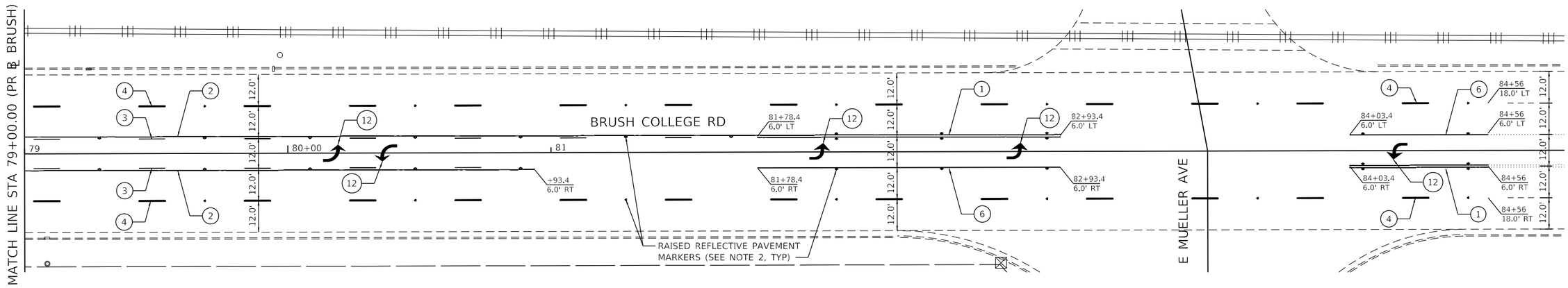
SCALE IN FEET





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Kaskaskia Engineering Group, LLC PROFESSIONAL REGISTRATIONS — LICENSE NO. Illinois Professional Design Firm — 184.004753 Professional Engineering Group — 20-5080586	USER NAME = rjo	DESIGNED - NDP	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
		DRAWN - NDP	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -	
	PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -	

BRUSH COLLEGE ROAD
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 6 OF 20 SHEETS | STA. 73+50.00 TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	552
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001 AND IDOT STANDARD 780001-05.
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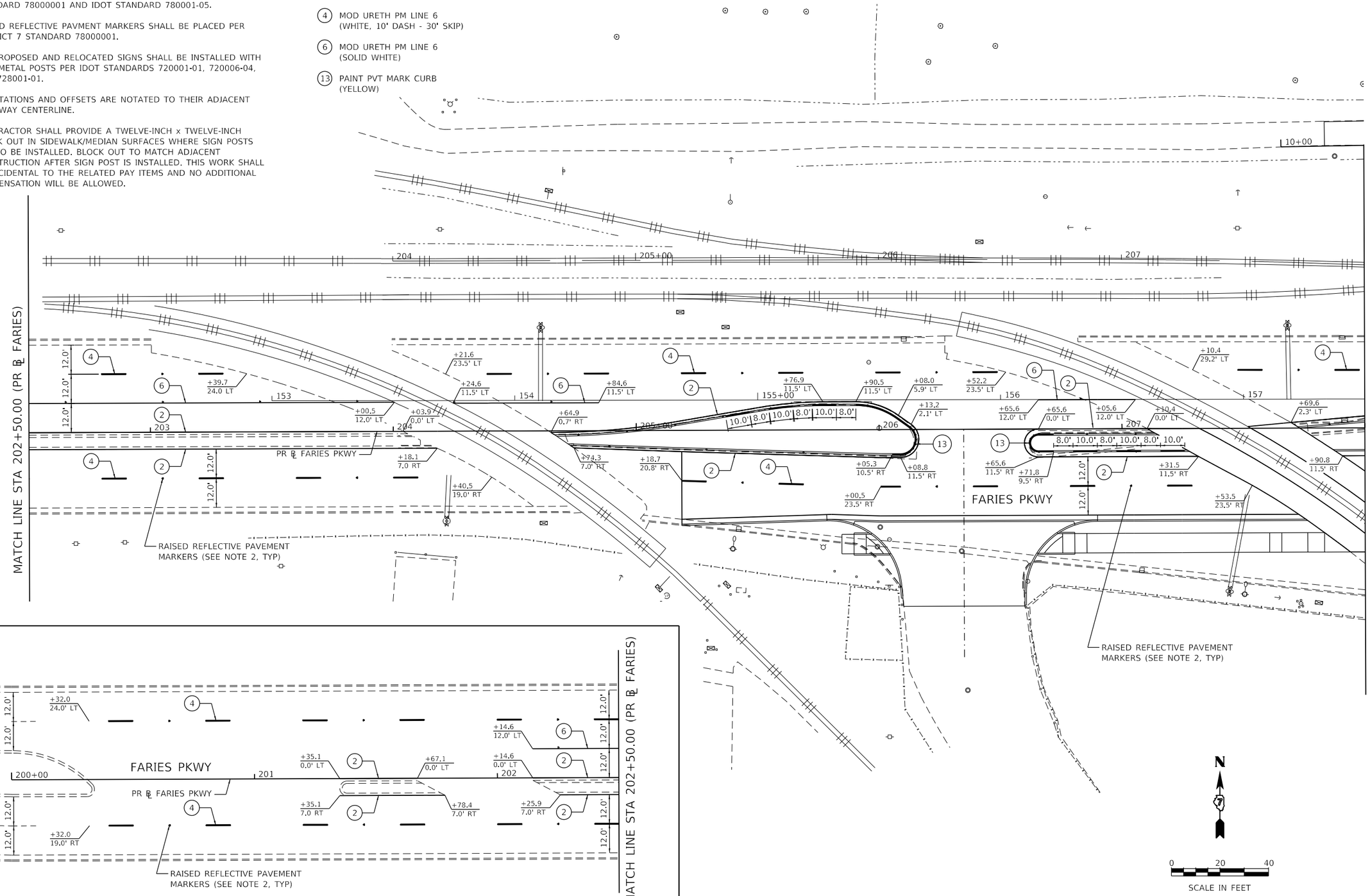
PAVEMENT MARKING LEGEND

(2) MOD URETH PM LINE 4 (SOLID YELLOW)

(4) MOD URETH PM LINE 6 (WHITE, 10' DASH - 30' SKIP)

(6) MOD URETH PM LINE 6 (SOLID WHITE)

(13) PAINT PVT MARK CURB (YELLOW)



Kaskaskia Engineering Group, LLC PROFESSIONAL REGISTRATIONS — LICENSE NO. Illinois Professional Design Firm — 184.004753 Professional Engineering Group — 20-5080586	USER NAME = rjo	DESIGNED - NDP	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
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	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -	
	PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -	

FARIES PARKWAY
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 7 OF 20 SHEETS | STA. 205+18.77 TO STA. 208+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	553
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001 AND IDOT STANDARD 780001-05.
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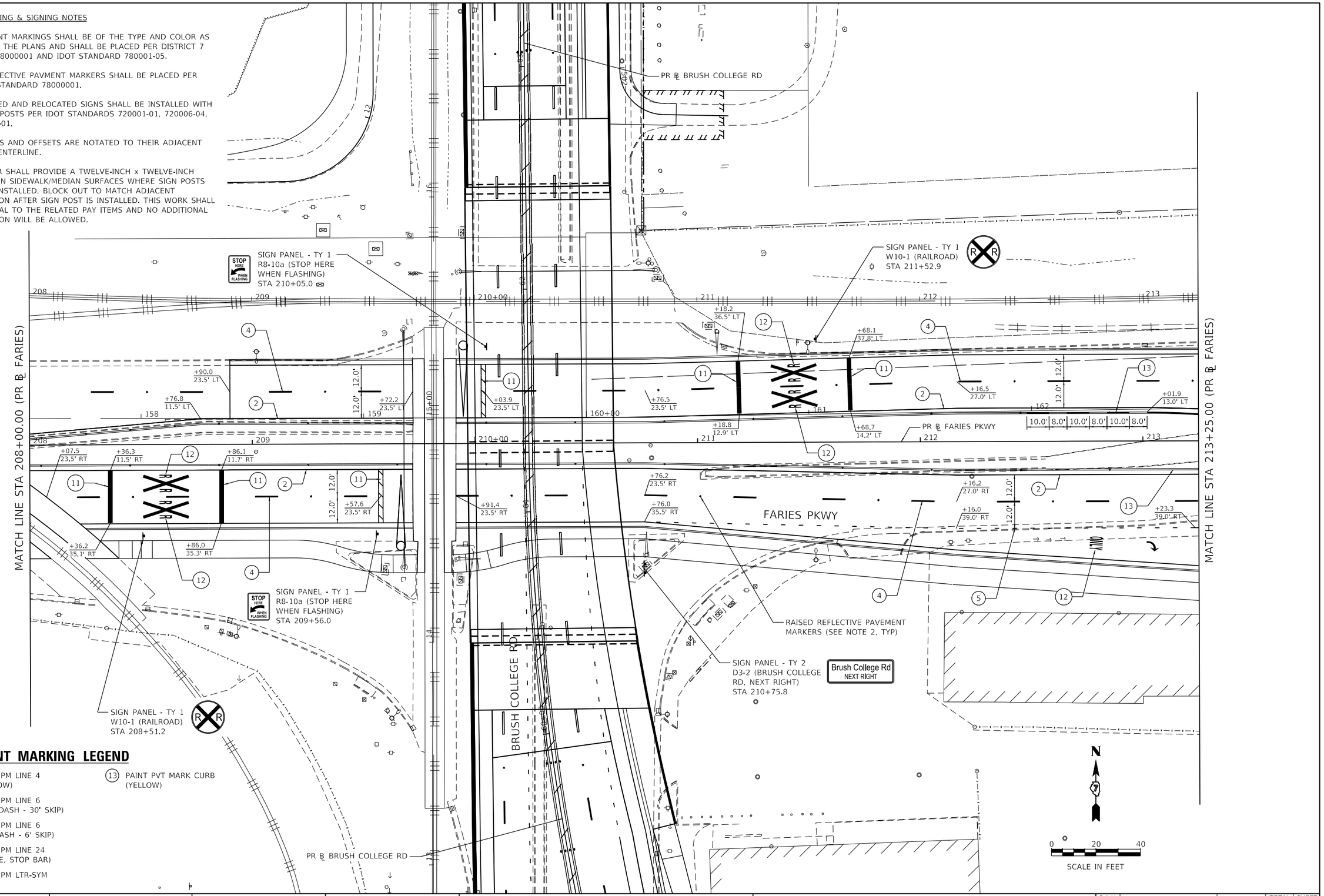

PAVEMENT MARKING LEGEND

- (2) MOD URETH PM LINE 4 (SOLID YELLOW)
- (4) MOD URETH PM LINE 6 (WHITE, 10' DASH - 30' SKIP)
- (5) MOD URETH PM LINE 6 (WHITE, 2' DASH - 6' SKIP)
- (11) MOD URETH PM LINE 24 (SOLID WHITE, STOP BAR)
- (12) MOD URETH PM LTR-SYM
- (13) PAINT PVT MARK CURB (YELLOW)

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5080586

USER NAME = rjo	DESIGNED - NDP	REVISED -
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PLOT DATE = 10/21/2021	DATE - 10/22/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FARIES PARKWAY
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 8 OF 20 SHEETS | STA. 208+00.00 TO STA. 213+25.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	554
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001 AND IDOT STANDARD 780001-05.
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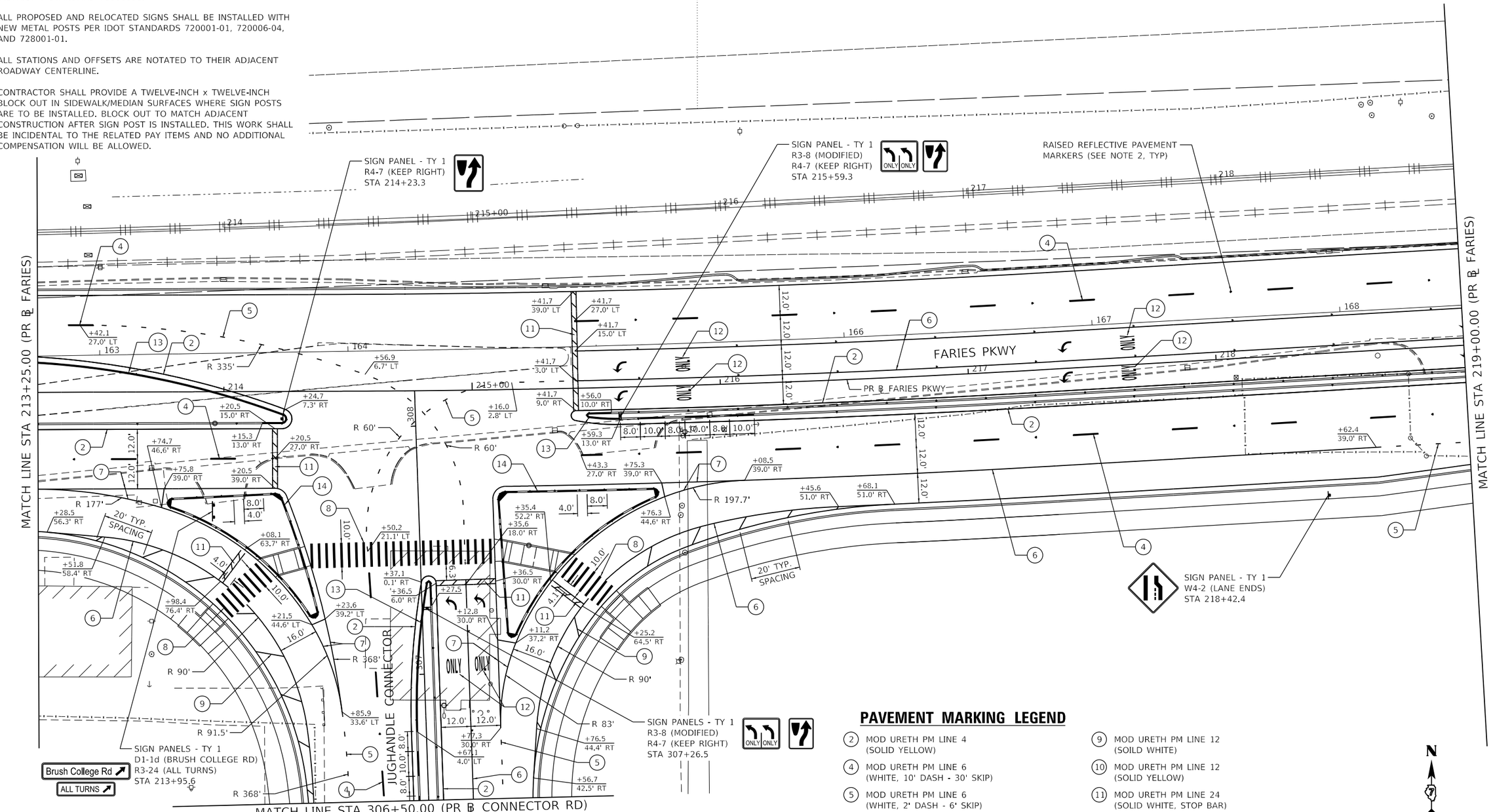

PAVEMENT MARKING LEGEND

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(5) MOD URETH PM LINE 6 (WHITE, 2' DASH - 6' SKIP)
(6) MOD URETH PM LINE 6 (SOLID WHITE)
(7) MOD URETH PM LINE 8 (SOLID WHITE)
(8) MOD URETH PM LINE 12 (SOLID WHITE, CROSS WALK)
(9) MOD URETH PM LINE 12 (SOILD WHITE)
(10) MOD URETH PM LINE 12 (SOLID YELLOW)
(11) MOD URETH PM LINE 24 (SOLID WHITE, STOP BAR)
(12) MOD URETH PM LTR-SYM
(13) PAINT PVT MARK CURB (YELLOW)
(14) PAINT PVT MARK CURB (WHITE)

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SCALE IN FEET

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5006586

USER NAME = rjo	DESIGNED - NDP	REVISED -	
	DRAWN - NDP	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FARIES PARKWAY
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 9 OF 20 SHEETS | STA. 213+25.00 TO STA. 219+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	555
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

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PAVEMENT MARKING & SIGNING NOTES

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PAVEMENT MARKING LEGEND

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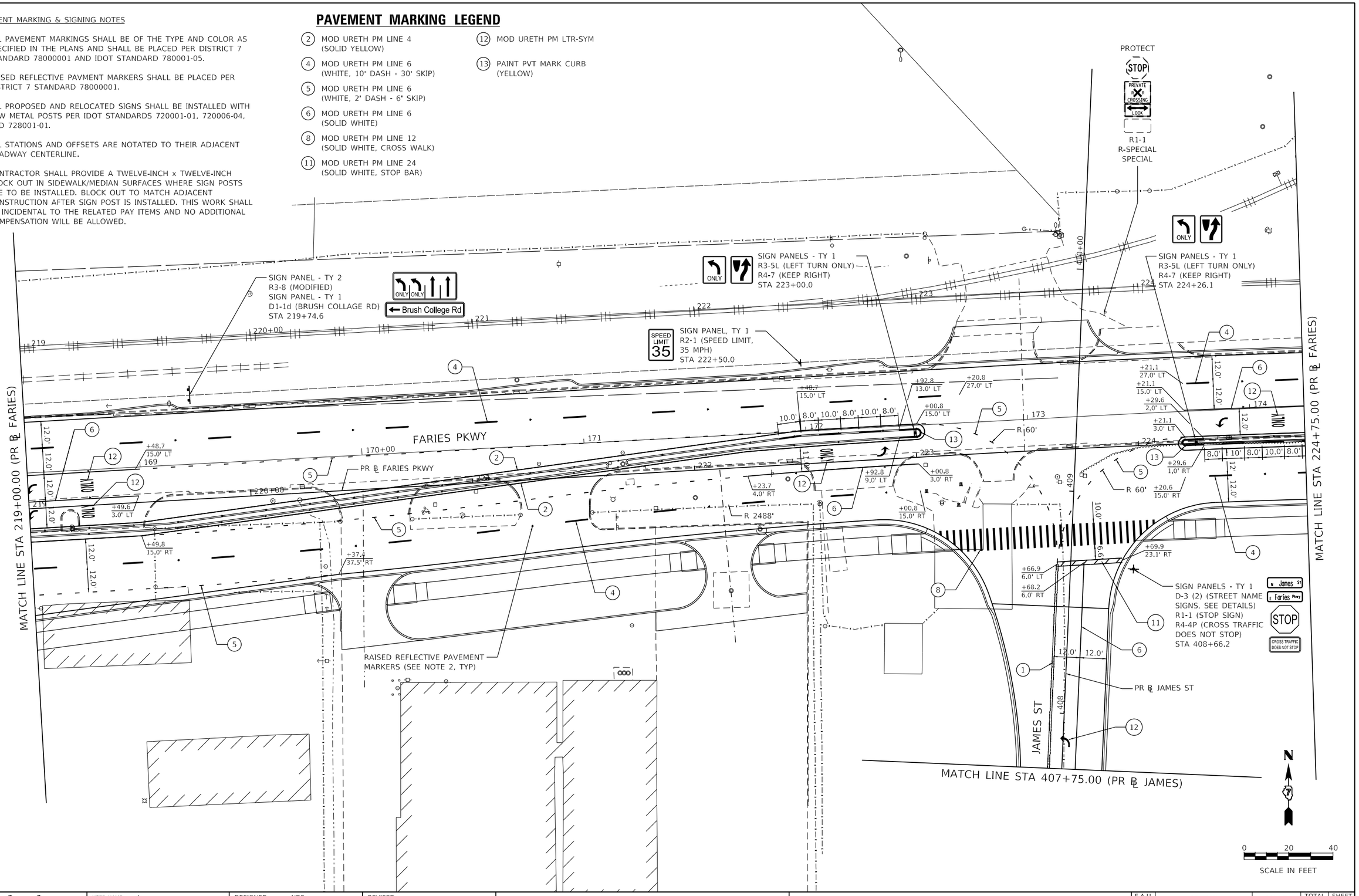

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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5080586

USER NAME = rjo	DESIGNED - NDP	REVISED -
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PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FARIES PARKWAY
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 10 OF 20 SHEETS | STA. 219+00.0 TO STA. 224+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	556
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

PAVEMENT MARKING & SIGNING NOTES

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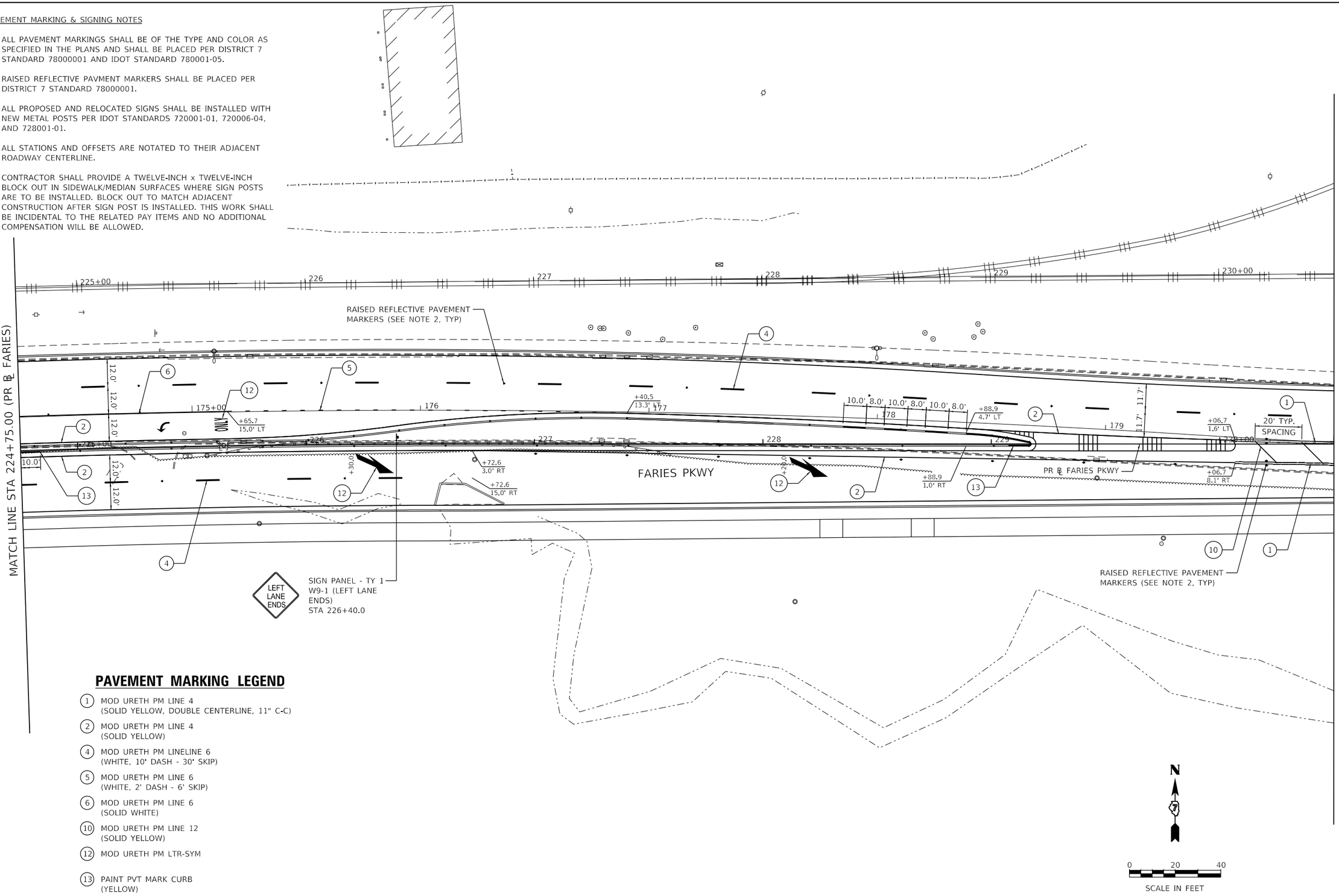

PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4
(SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)

(2) MOD URETH PM LINE 4
(SOLID YELLOW)

(4) MOD URETH PM LINELINE 6
(WHITE, 10' DASH - 30' SKIP)

(5) MOD URETH PM LINE 6
(WHITE, 2' DASH - 6' SKIP)

(6) MOD URETH PM LINE 6
(SOLID WHITE)

(10) MOD URETH PM LINE 12
(SOLID YELLOW)

(12) MOD URETH PM LTR-SYM

(13) PAINT PVT MARK CURB
(YELLOW)

N

0 20 40
SCALE IN FEET

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Kaskaskia Engineering Group, LLC PROFESSIONAL REGISTRATIONS — LICENSE NO. Illinois Professional Design Firm — 184.004773 Professional Engineering Group — 20-5006586	USER NAME = rjo	DESIGNED - NDP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - NDP	REVISED -	
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -	
	PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -	

FARIES PARKWAY
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 11 OF 20 SHEETS | STA. 224+75.00 TO STA. 230+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	557
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

PAVEMENT MARKING & SIGNING NOTES

1. ALL PAVEMENT MARKINGS SHALL BE OF THE TYPE AND COLOR AS SPECIFIED IN THE PLANS AND SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001 AND IDOT STANDARD 780001-05.
2. RAISED REFLECTIVE PAVMENT MARKERS SHALL BE PLACED PER DISTRICT 7 STANDARD 78000001.
3. ALL PROPOSED AND RELOCATED SIGNS SHALL BE INSTALLED WITH NEW METAL POSTS PER IDOT STANDARDS 720001-01, 720006-04, AND 728001-01.
4. ALL STATIONS AND OFFSETS ARE NOTATED TO THEIR ADJACENT ROADWAY CENTERLINE.
5. CONTRACTOR SHALL PROVIDE A TWELVE-INCH x TWELVE-INCH BLOCK OUT IN SIDEWALK/MEDIAN SURFACES WHERE SIGN POSTS ARE TO BE INSTALLED. BLOCK OUT TO MATCH ADJACENT CONSTRUCTION AFTER SIGN POST IS INSTALLED. THIS WORK SHALL BE INCIDENTAL TO THE RELATED PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4
(SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)

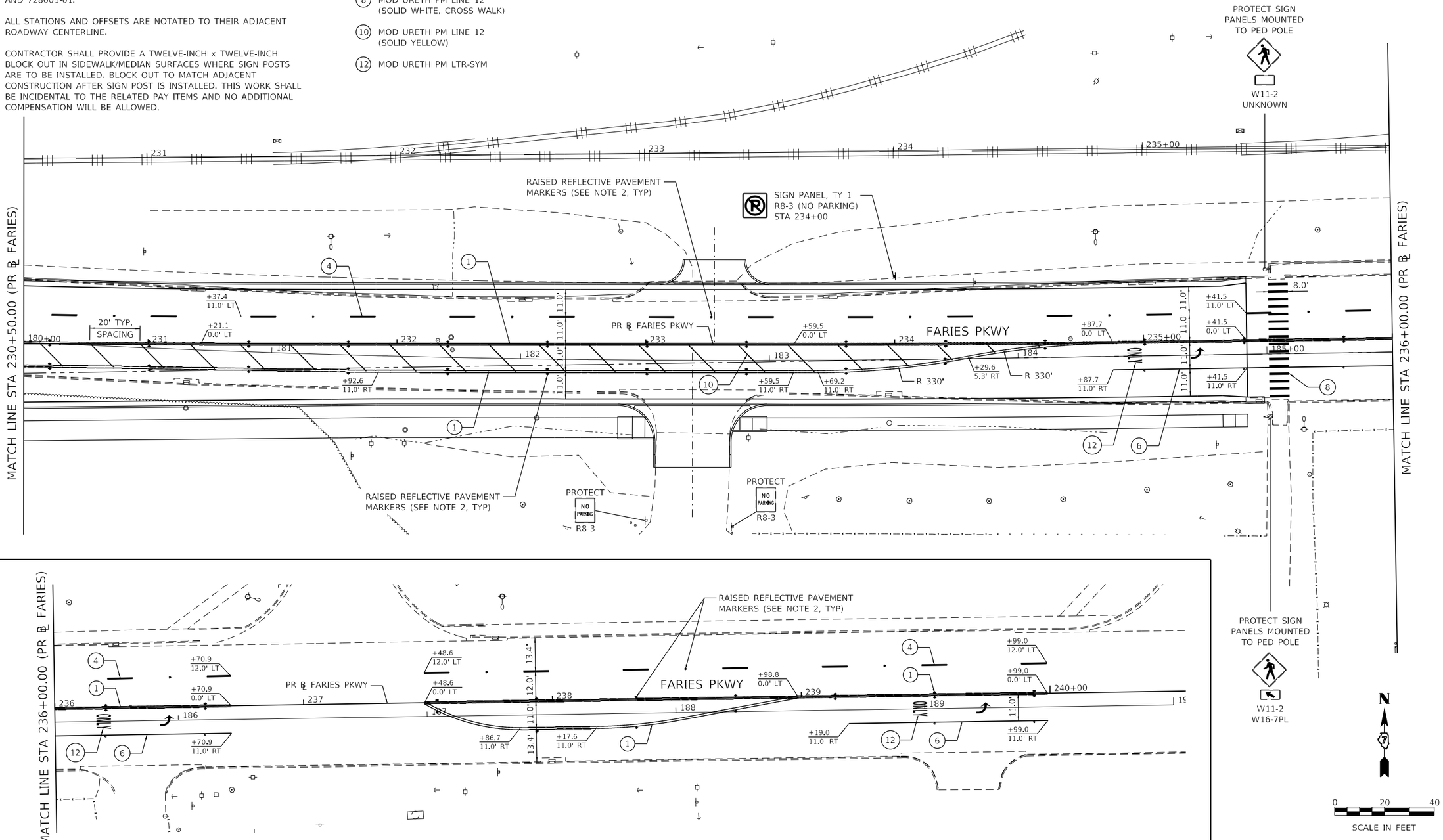
(4) MOD URETH PM LINE 6
(WHITE, 10' DASH - 30' SKIP)

(6) MOD URETH PM LINE 6
(SOLID WHITE)

(8) MOD URETH PM LINE 12
(SOLID WHITE, CROSS WALK)

(10) MOD URETH PM LINE 12
(SOLID YELLOW)

(12) MOD URETH PM LTR-SYM



Kaskaskia Engineering Group, LLC PROFESSIONAL REGISTRATIONS — LICENSE NO. Illinois Professional Design Firm — 184.004753 Professional Engineering Group — 20-5080586	USER NAME = rjo	DESIGNED - NDP	REVISED -
		DRAWN - NDP	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
	PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FARIES PARKWAY
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 12 OF 20 SHEETS | STA. 230+50.00 TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	558
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

PAVEMENT MARKING & SIGNING NOTES

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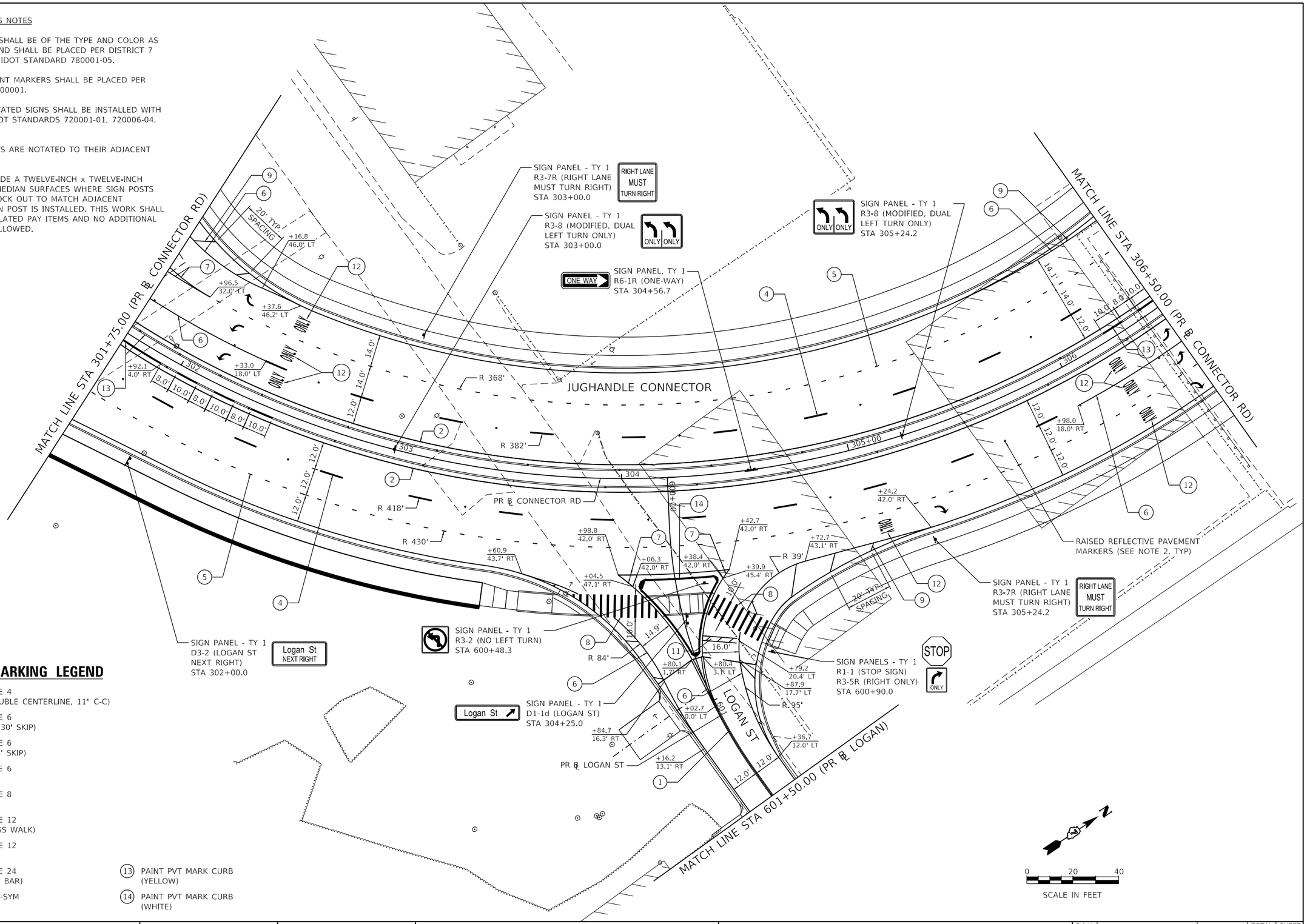

PAVEMENT MARKING LEGEND

1. MOD URETH PM LINE 4 (SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)
4. MOD URETH PM LINE 6 (WHITE, 10' DASH - 30' SKIP)
5. MOD URETH PM LINE 6 (WHITE, 2' DASH - 6' SKIP)
6. MOD URETH PM LINE 6 (SOLID WHITE)
7. MOD URETH PM LINE 8 (SOLID WHITE)
8. MOD URETH PM LINE 12 (SOLID WHITE, CROSS WALK)
9. MOD URETH PM LINE 12 (SOILD WHITE)
11. MOD URETH PM LINE 24 (SOLID WHITE, STOP BAR)
12. MOD URETH PM LTR-SYM
13. PAINT PVT MARK CURB (YELLOW)
14. PAINT PVT MARK CURB (WHITE)

Kaskaskia Engineering Group, LLC PROFESSIONAL REGISTRATIONS — LICENSE NO. Illinois Professional Design Firm — 184.004773 Professional Engineering Group — 20-5880586	USER NAME = rjo	DESIGNED - NDP	REVISED -
		DRAWN - NDP	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
	PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONNECTOR ROAD
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 13 OF 20 SHEETS | STA. 301+75.00 TO STA. 306+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	559
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

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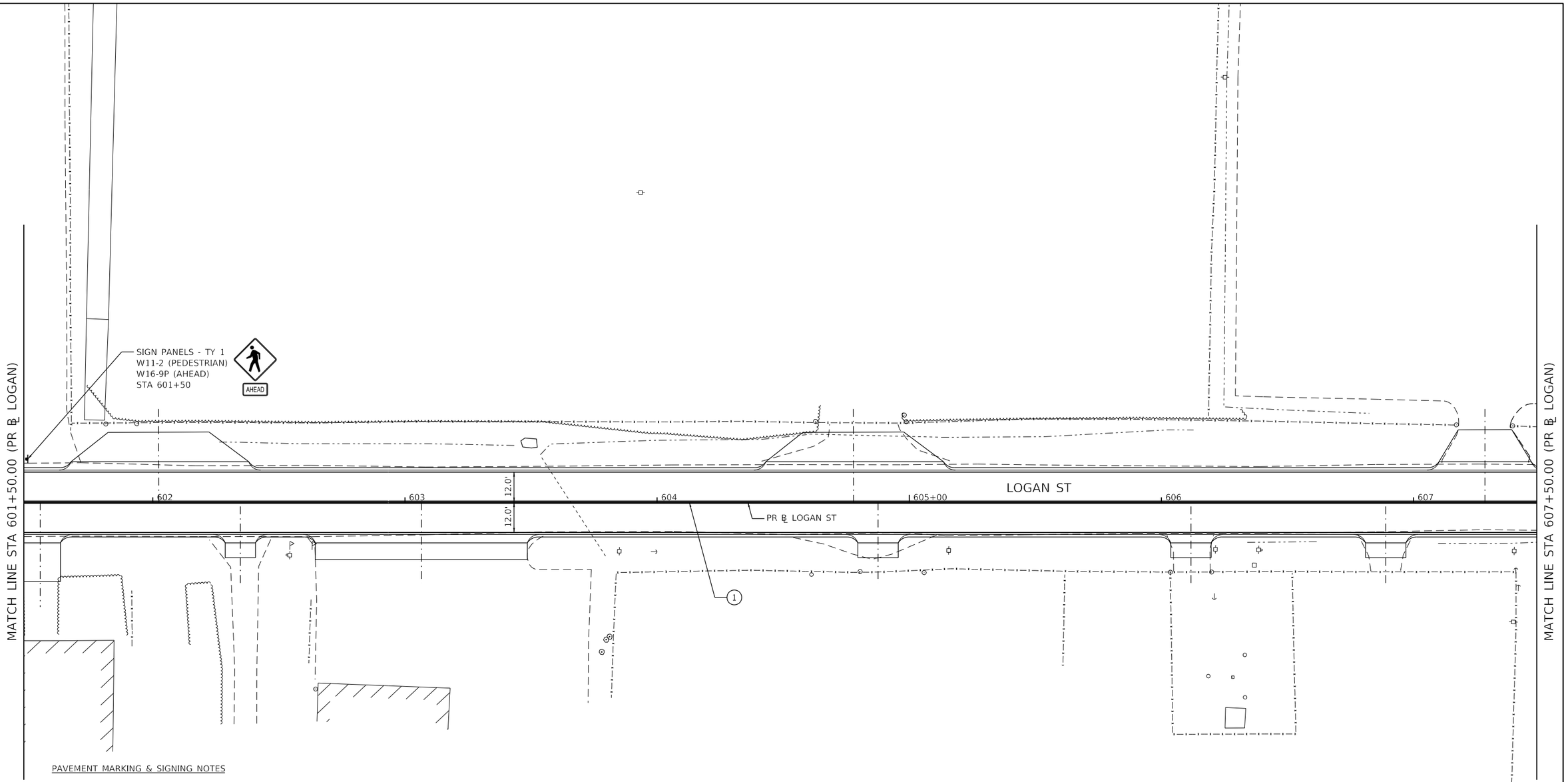

PAVEMENT MARKING & SIGNING NOTES

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PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4
(SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)

N

0 20 40
SCALE IN FEET

MODEL: Default
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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5006586

USER NAME = rjo	DESIGNED - NDP	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST LOGAN STREET
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 14 OF 20 SHEETS | STA. 601+50.00 TO STA. 607+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	560
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

PAVEMENT MARKING & SIGNING NOTES

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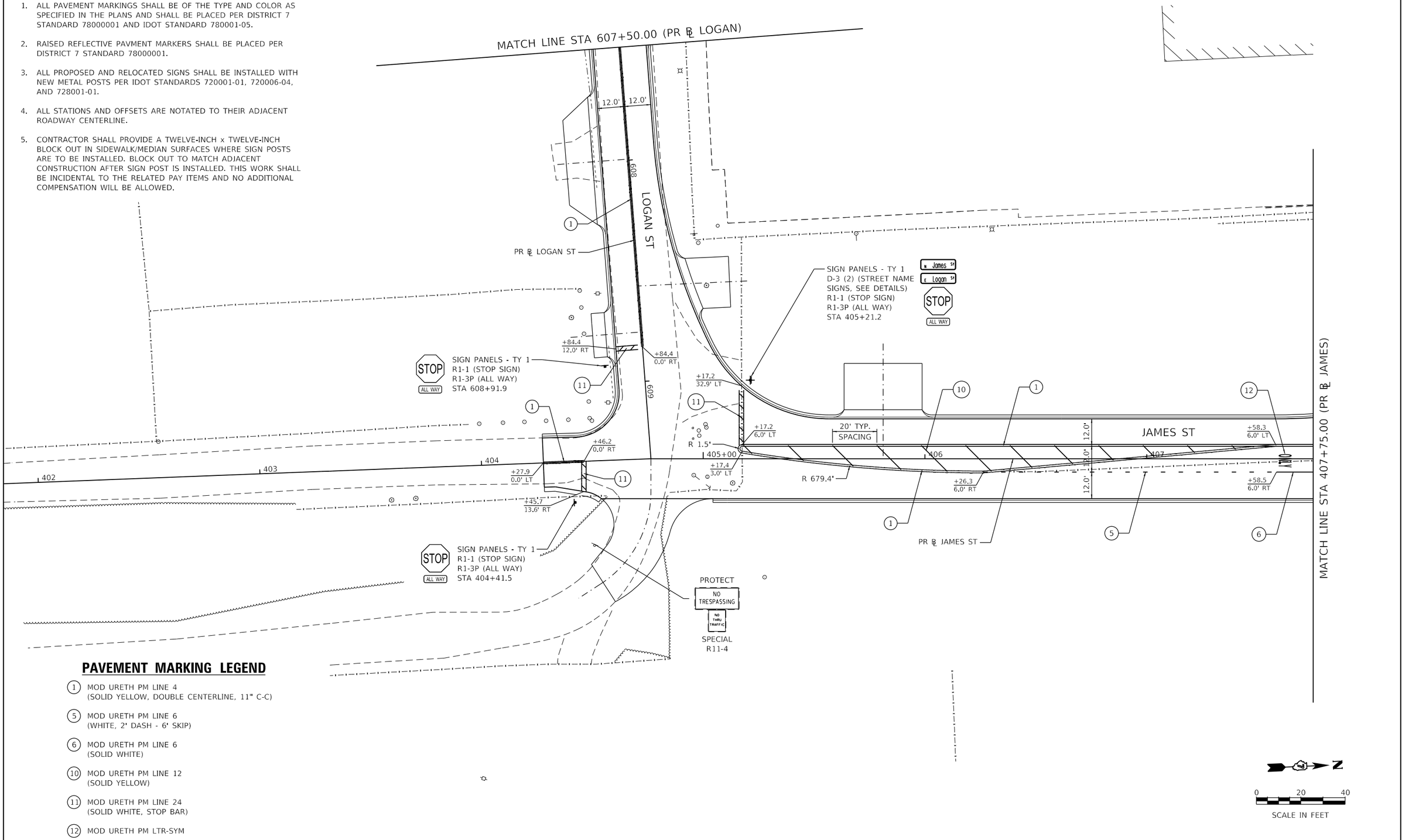

PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4
(SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)

(5) MOD URETH PM LINE 6
(WHITE, 2' DASH - 6' SKIP)

(6) MOD URETH PM LINE 6
(SOLID WHITE)

(10) MOD URETH PM LINE 12
(SOLID YELLOW)

(11) MOD URETH PM LINE 24
(SOLID WHITE, STOP BAR)

(12) MOD URETH PM LTR-SYM

N

0 20 40
SCALE IN FEET

MODEL: Default
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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5080586

USER NAME = rjo	DESIGNED - NDP	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH JAMES STREET
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 15 OF 20 SHEETS | STA. 607+50.00 TO STA. 407+75.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	561
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

PAVEMENT MARKING & SIGNING NOTES

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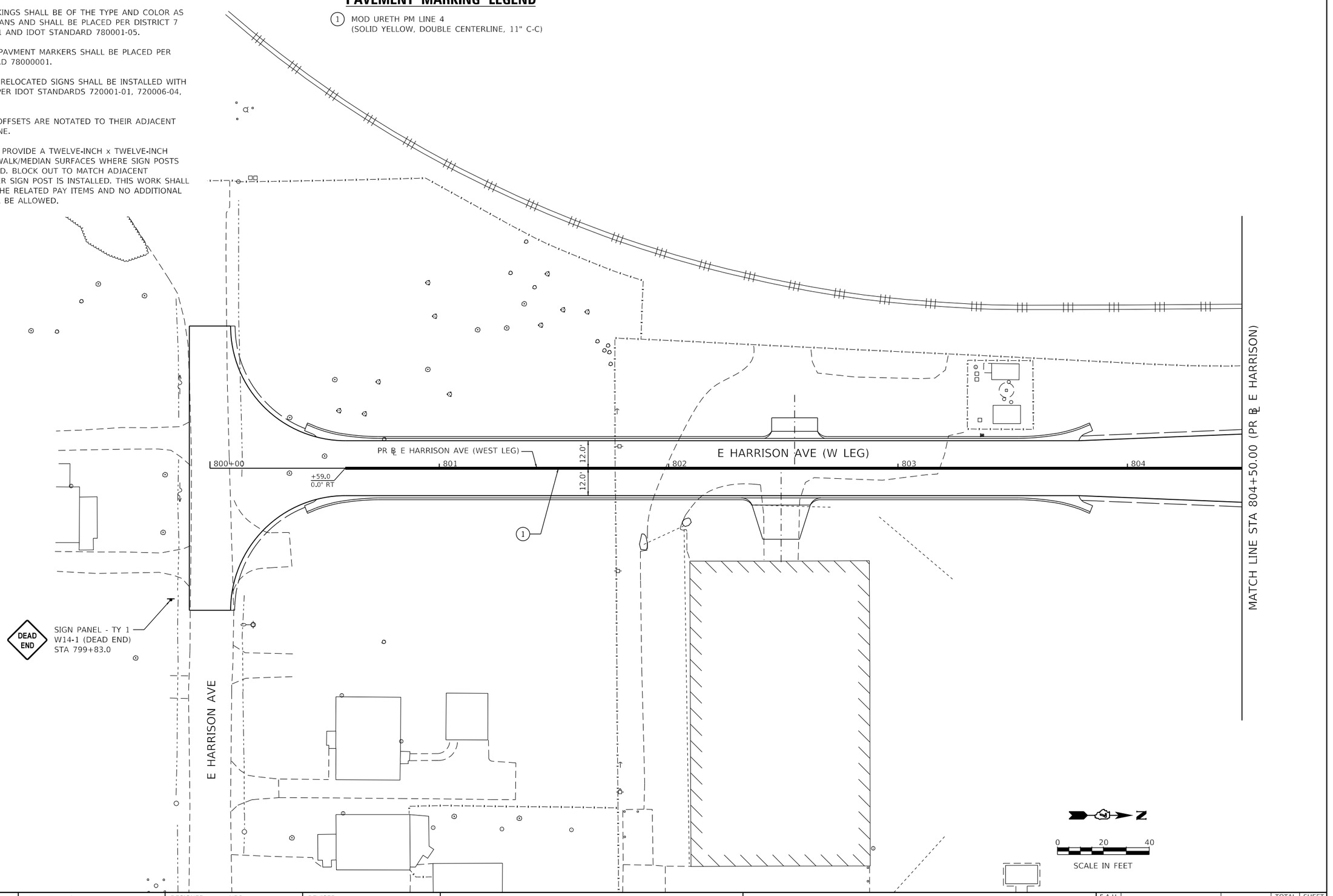
PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4
(SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)



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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5080586

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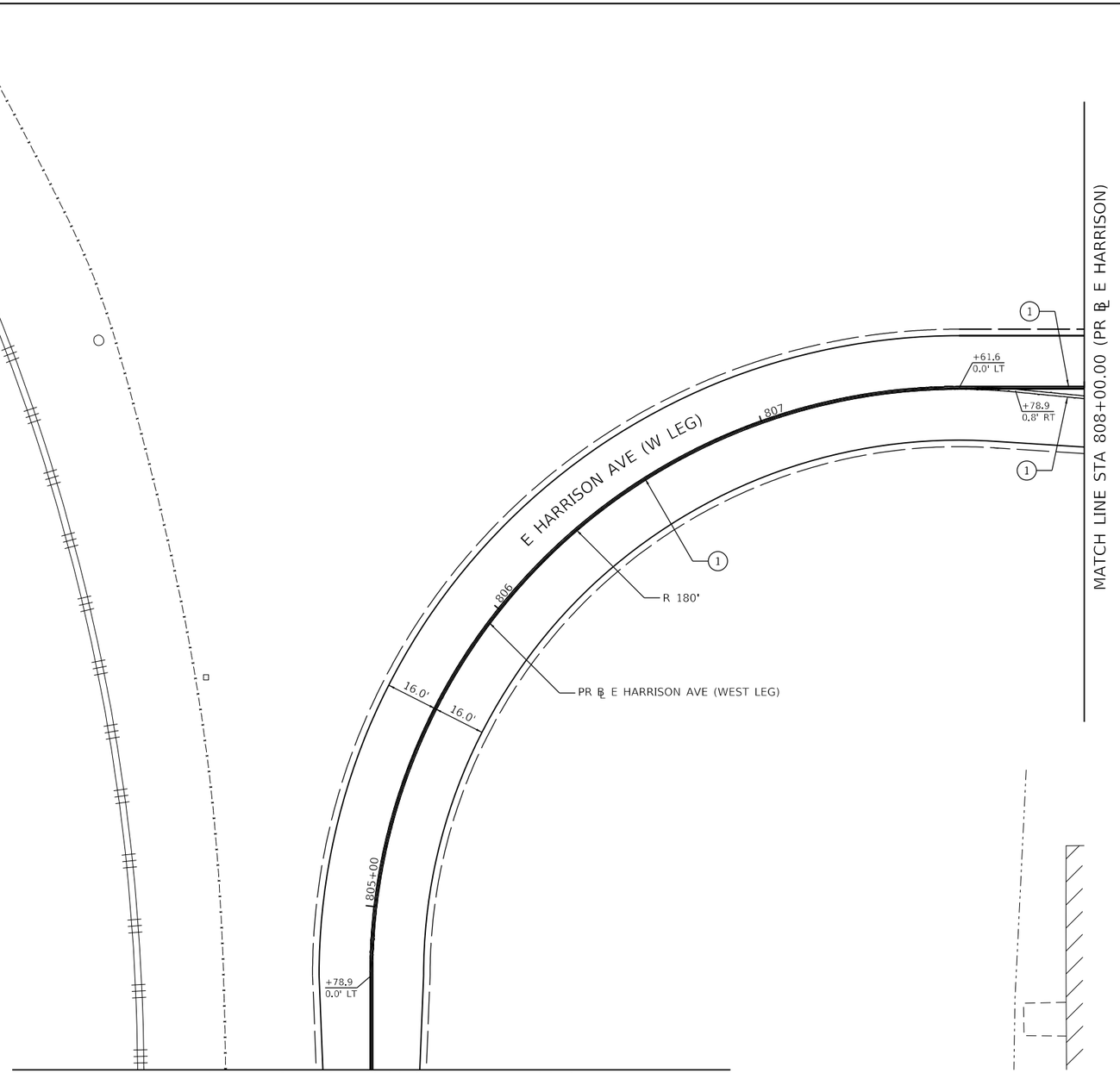
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E HARRISON AVENUE (WEST LEG)
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 16 OF 20 SHEETS | STA. 800+00.00 TO STA. 804+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	562
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	



PAVEMENT MARKING & SIGNING NOTES

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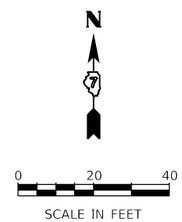
PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4
(SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)



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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5000586

USER NAME = rjo	DESIGNED - NDP	REVISED -
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PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
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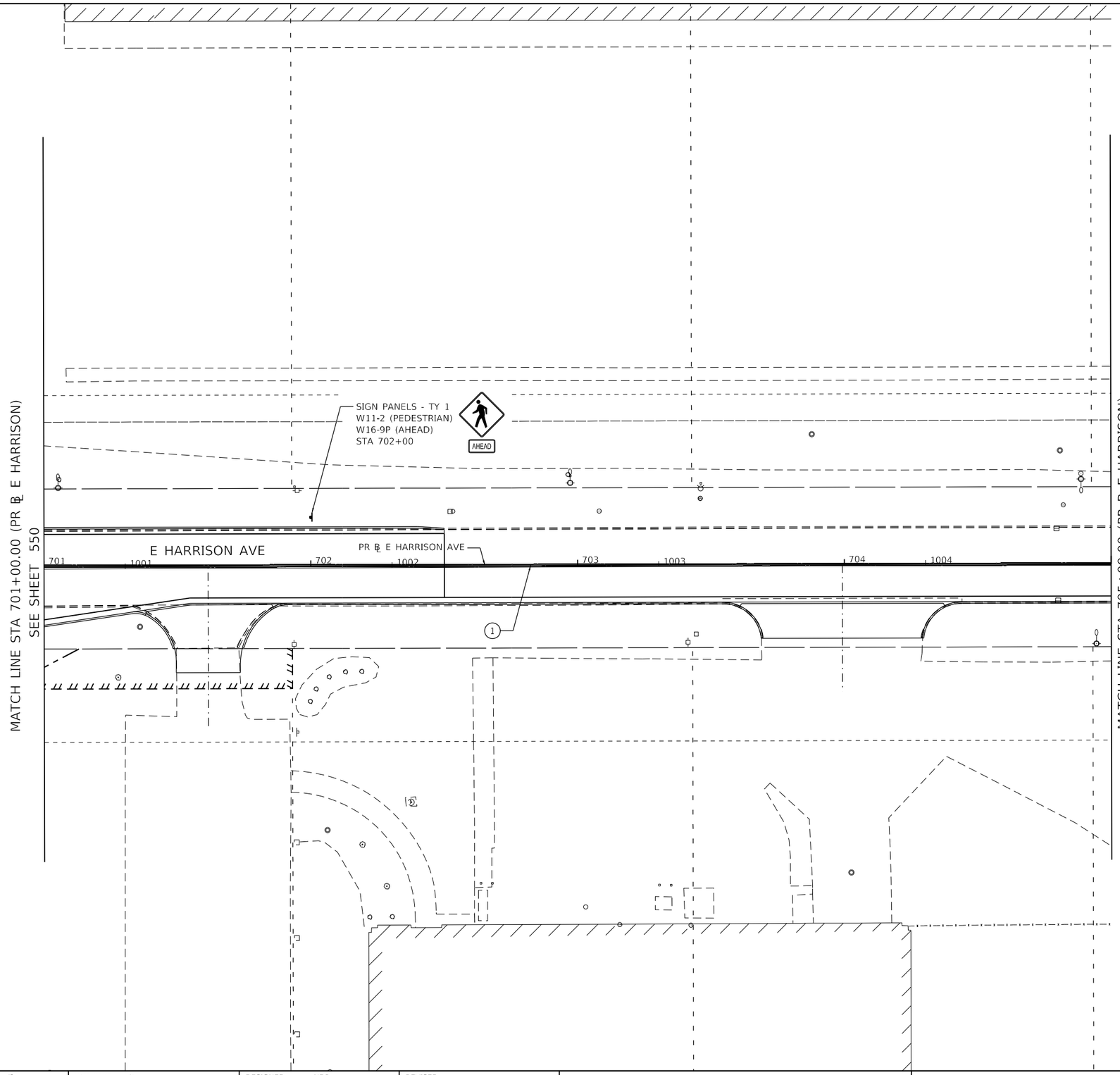
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E HARRISON AVENUE (WEST LEG)
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 17 OF 20 SHEETS | STA. 804+50.00 TO STA. 808+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	563
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



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PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4
(SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)

N

0 20 40
SCALE IN FEET

MODEL: Default
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Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004753
Professional Engineering Group — 20-5080586

USER NAME = rjo	DESIGNED - NDP	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E HARRISON AVENUE (EAST LEG)
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 18 OF 20 SHEETS | STA. 701+00.00 TO STA. 705+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	564
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING & SIGNING NOTES

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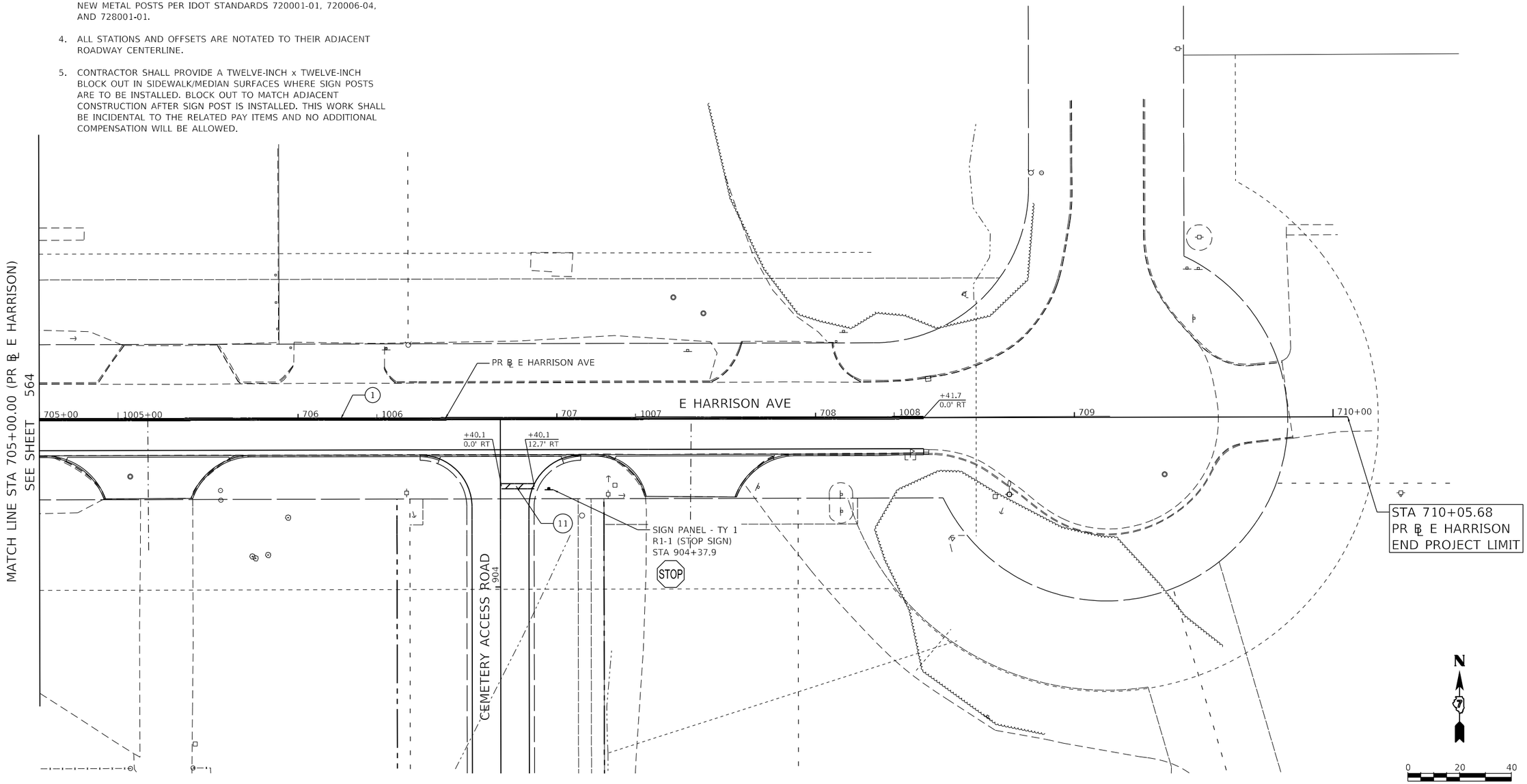
PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4
(SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)

(11) MOD URETH PM LINE 24
(SOLID WHITE, STOP BAR)



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USER NAME = rjo	DESIGNED - NDP	REVISED -	
	DRAWN - NDP	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -	
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -	

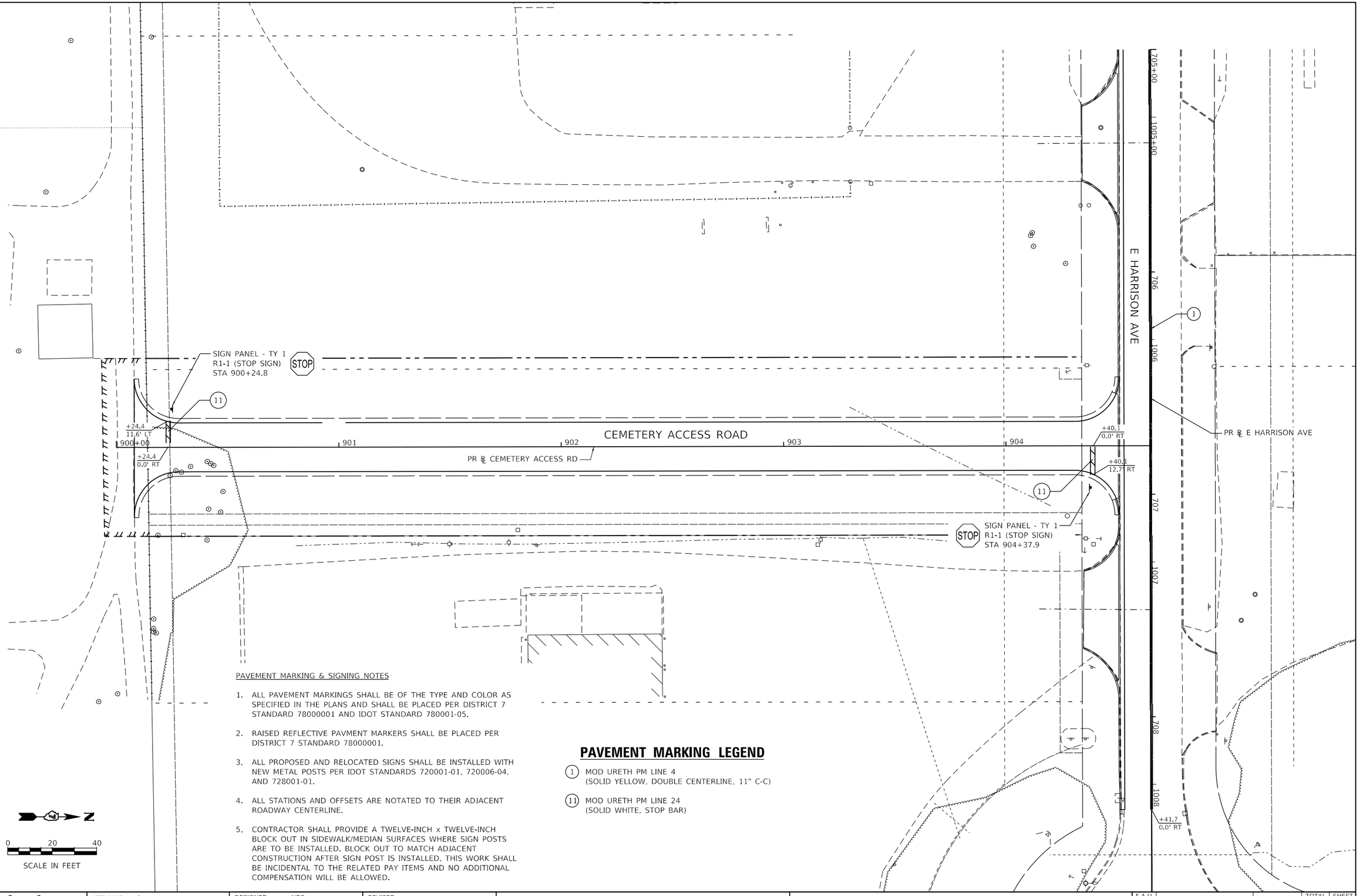
Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5006586

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E HARRISON AVENUE (EAST LEG)
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 19 OF 20 SHEETS | STA. 705+00.00 TO STA. 710+05.68

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	565
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			



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PAVEMENT MARKING LEGEND

(1) MOD URETH PM LINE 4
(SOLID YELLOW, DOUBLE CENTERLINE, 11" C-C)

(11) MOD URETH PM LINE 24
(SOLID WHITE, STOP BAR)

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004753
Professional Engineering Group — 20-5080586

USER NAME = rjo	DESIGNED - NDP	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - LDC	REVISED -
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

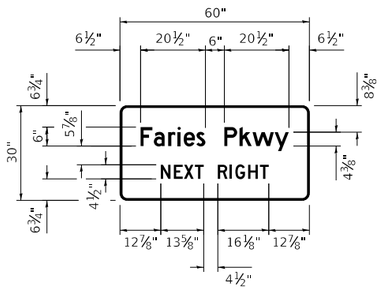
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E HARRISON AVENUE (EAST LEG) & CEMETERY ROAD
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=20' | SHEET 20 OF 20 SHEETS | STA. 900+00.00 TO STA. 904+52.12

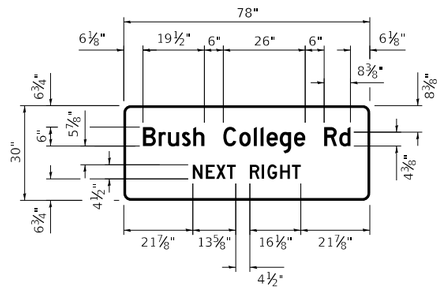
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	566
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\\aecom-na-pw.bentley.com:AECOM_DS16_NA\Documents\60603202-Brush College\900-CAD GIS\910_CAD\03_SHEETS\04-KASKASKIA\Pavement Marking Plans\60603202_SHT_PMK-Sign_20_Cemetery-01.dgn



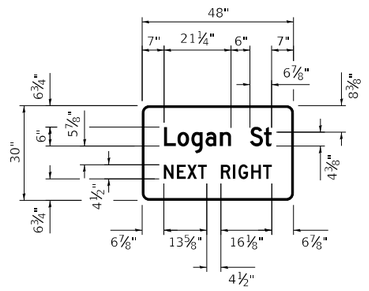
D3-2 - STA 51+95.0 RT

DETAIL OF
SIGN PANEL - TYPE 2
(NOT TO SCALE)



D3-2 - STA 210+75.8 RT

DETAIL OF
SIGN PANEL - TYPE 2
(NOT TO SCALE)



D3-2 - STA 302+00.0 RT

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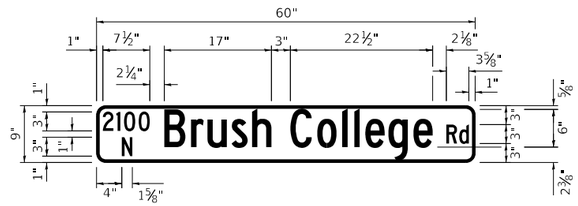
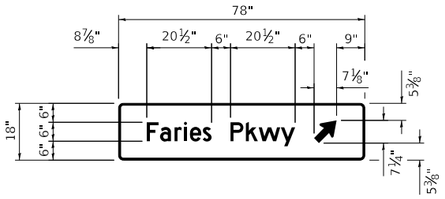
(NOT TO SCALE)



D3-1 - STA 73+16.0 LT

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



D1-1d - STA 54+33.6 RT

DETAIL OF
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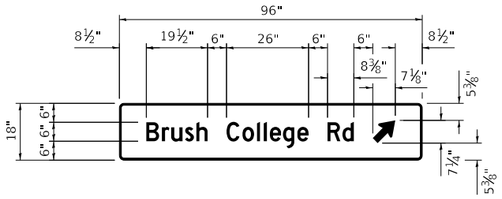
(NOT TO SCALE)



D1-1d - STA 213+95.6 RT

DETAIL OF
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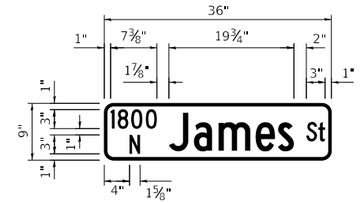
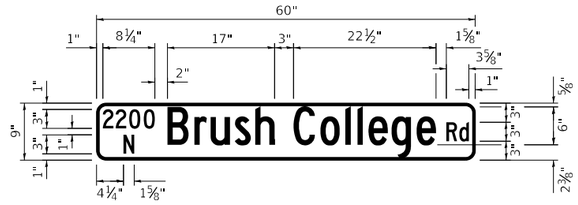
(NOT TO SCALE)



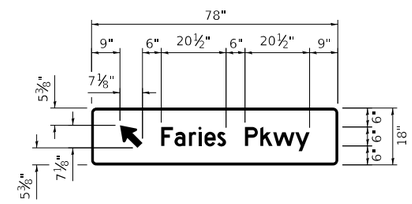
D3-1 - STA 405+21.2 LT
STA 408+66.2 RT

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



D3-1 - STA 701+66.9 RT

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



D1-1d - STA 58+03.2 LT

DETAIL OF
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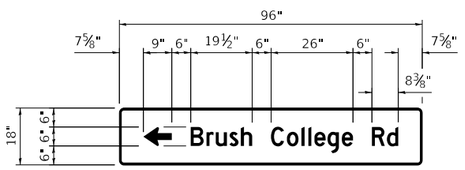
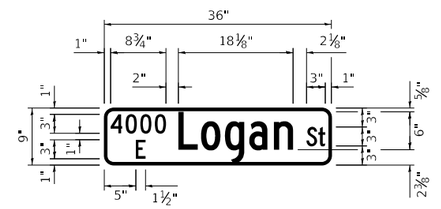


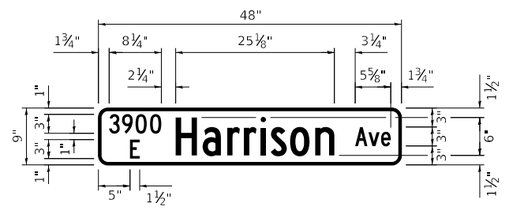
D1-1d - STA 219+74.6 LT

DETAIL OF
SIGN PANEL - TYPE 2
(NOT TO SCALE)



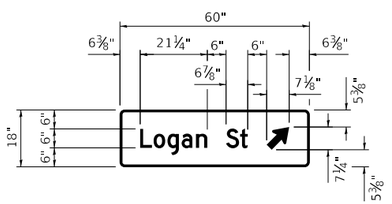
D3-1 - STA 405+21.2 LT

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



D3-1 - STA 701+66.9 RT

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



D1-1d - STA 304+25.0 RT

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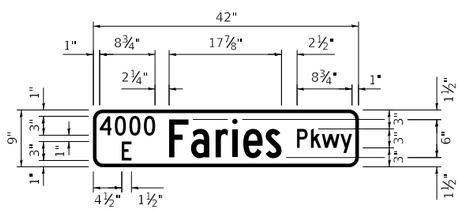
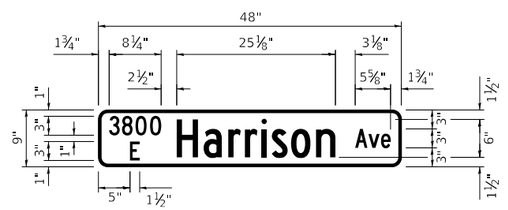
SIGN PANEL - TYPE 1
(NOT TO SCALE)



D3-1 - STA 408+66.2 RT

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)



D3-1 - STA 73+16.0 LT

DETAIL OF
SIGN PANEL - TYPE 1
(NOT TO SCALE)

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004773
Professional Engineering Group — 20-5080586

USER NAME = rjo	DESIGNED - LDC	REVISED -
	DRAWN - RJO	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED - LDC	REVISED -
PLOT DATE = 4/28/2021	DATE - 4/30/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRUSH COLLEGE ROAD & FARIES PARKWAY
PAVEMENT MARKING & SIGNING – SIGN PANELS

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	567
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	588	1
	ILLINOIS	CONTRACT NO. 95893		

FOR INDEX OF SHEETS AND STANDARDS SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

VOLUME I

DESIGN DESIGNATIONS:

BRUSH COLLEGE ROAD (FAU 7448)	21,000 (2035)	MINOR ARTERIAL
FARIES PARKWAY (FAU 7369) (WEST LEG)	12,000 (2035)	MINOR ARTERIAL
FARIES PARKWAY (FAU 7369) (EAST LEG)	15,000 (2035)	COLLECTOR
JUG HANDLE CONNECTOR ROAD	18,000 (2035)	COLLECTOR

POSTED /DESIGN SPEEDS:

35 /40 MPH
35 /40 MPH
35 /40 MPH
30 /30 MPH

PLANS FOR PROPOSED LOCAL AGENCY IMPROVEMENT

FAU ROUTE 7448 (BRUSH COLLEGE ROAD) OVER FARIES PARKWAY GRADE SEPARATION

SECTION 09–00933–01–BR

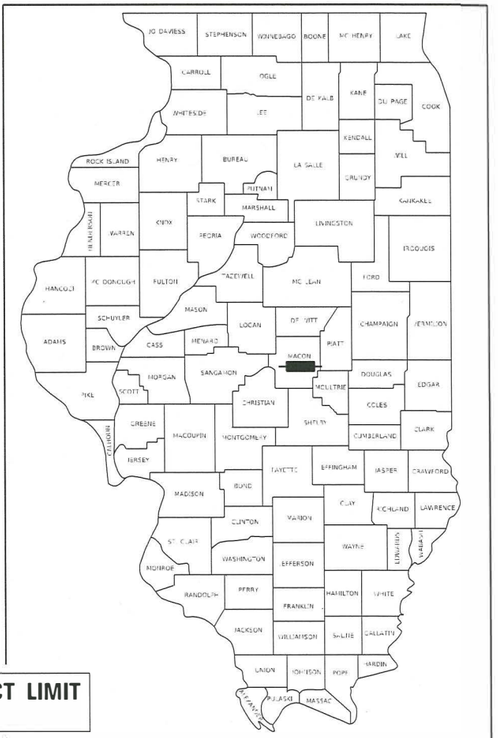
PROJECT 3ELT(222)

BRIDGE STRUCTURE, RETAINING WALLS, ROADWAY RECONSTRUCTION, LIGHTING, AND TRAFFIC SIGNALS

MACON COUNTY

C–97–106–21

NORFOLK SOUTHERN RAILROAD
MIDWEST DIVISION, DECATUR
TERMINAL – MP IT–44.6

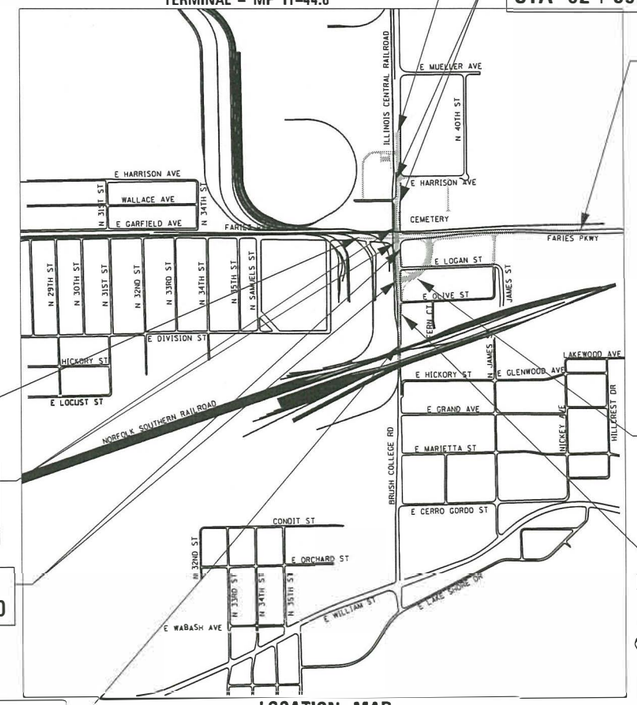


LOCATION OF SECTION INDICATED THUS: –

BRUSH COLLEGE RD PROJECT LIMIT END STA 75 + 44.21

RETAINING WALL SN 058–W004 STA 62 + 39.94 TO STA 69 + 25.33

FARIES PKWY PROJECT LIMIT END STA 235 + 41.47



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 5,855.36 FT (1.11 MILES)
NET LENGTH = 5,855.36 FT (1.11 MILES)

FARIES PKWY PROJECT LIMIT BEGIN STA 205 + 18.73

BRUSH COLLEGE STRUCTURE LIMIT STA 60 + 10.96 TO STA 62 + 76.19 SN 058–9202

RETAINING WALL SN 058–W003 STA 52 + 00.00 TO STA 59 + 50.20

BRUSH COLLEGE RD PROJECT LIMIT BEGIN STA 46 + 59.43

RETAINING WALL SN 058–W006 STA 300 + 31.00 TO STA 303 + 46.11

RETAINING WALL SN 058–W007 STA 46 + 86.59 TO STA 51 + 75.56

KIRSTEN MAWHINNEY 062-062611 — LICENSED PROFESSIONAL ENGINEER — STATE OF ILLINOIS

10 /22 /2021
KIRSTEN MAWHINNEY, P.E. DATE
LICENSE EXPIRES 2 /28 /2022
SHEET RANGE: 1–49, 53, 55–92, 97–98, 100–112, 117–118, 120–132, 141, 143–157, 159–175, 177, 179–302, 379–398, 568, 742–930, 987–1009

CORY W. CHAMBERLAIN 062-055298 — LICENSED PROFESSIONAL ENGINEER — STATE OF ILLINOIS

10 /22 /2021
CORY W. CHAMBERLAIN, P.E. DATE
LICENSE EXPIRES 2 /28 /2022
SHEET RANGE: 50–52, 54, 93–96, 99, 113–116, 119, 133–140, 142, 158, 176, 178, 399–512, 931–986, 1010–1019

STATE OF ILLINOIS — DEMIR DABEZIC 081–007749 — LICENSED STRUCTURAL ENGINEER

10 /22 /2021
DEMIR DEBEZIC, S.E. DATE
LICENSE EXPIRES 11 /30 /2022
SHEET RANGE: 665–705

RICHARD K. ALLENDER III 062-054436 — LICENSED PROFESSIONAL ENGINEER — STATE OF ILLINOIS

10 /22 /2021
RICHARD K. ALLENDER III, P.E. DATE
LICENSE EXPIRES 2 /28 /2022
SHEET RANGE: 308–378

STATE OF ILLINOIS — SCOTT D. SANFORD 081–005468 — SPRINGFIELD — LICENSED STRUCTURAL ENGINEER

SEE SHEET 569 FOR SIGNATURE
SCOTT D. SANFORD, S.E. DATE
LICENSE EXPIRES 11 /30 /2022
SHEET RANGE: 569–594

MATTHEW J. LETOURNEAU 062-055763 — LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

10 /22 /2021
MATTHEW J. LETOURNEAU, P.E. DATE
LICENSE EXPIRES 2 /28 /2022
SHEET RANGE: 303–307, 706–720

KEITH W. BENTING 4777 — STATE OF ILLINOIS — DECATUR, ILLINOIS — LICENSED STRUCTURAL ENGINEER

10 /22 /2021
KEITH W. BENTING, S.E. DATE
LICENSE EXPIRES 11 /30 /2022
SHEET RANGE: 595–664

WILLIAM D. STERMER 062-060936 — LICENSED PROFESSIONAL ENGINEER — STATE OF ILLINOIS

10 /22 /2021
WILLIAM D. STERMER, P.E. DATE
LICENSE EXPIRES 2 /28 /2022
SHEET RANGE: 731–741

LANCE D. CHRISMAN NO. 062-056127 — LICENSED PROFESSIONAL ENGINEER — STATE OF ILLINOIS

10 /22 /2021
LANCE D. CHRISMAN, P.E. DATE
LICENSE EXPIRES 2 /28 /2022
SHEET RANGE: 544–567, 721–730

PAUL ST. AUBYN 062-064634 — LICENSED PROFESSIONAL ENGINEER — STATE OF ILLINOIS

10 /22 /2021
PAUL ST. AUBYN, P.E. DATE
LICENSE EXPIRES 2 /28 /2022
SHEET RANGE: 513–543

100′ 200′ 300′ — 1″ = 100′
0 10′ 20′ 30′ — 1″ = 10′
0 50′ 100′ — 1″ = 50′
0 50′ 100′ — 1″ = 40′
0 50′ 100′ — 1″ = 30′
0 50′ 100′ — 1″ = 20′

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

CONTRACT NO. 95893

AECOM
345 EAST ASH AVE
DECATUR, IL 62526
PHONE: (217) 775-6065

QEI QUIGG ENGINEERING INC
2351 S. DIRKSEN PARKWAY
SPRINGFIELD, IL 62703
PHONE: (217) 670-0563

design firm no. 184001036 whks engineers • planners • land surveyors
3695 6TH STREET FRONTAGE ROAD WEST, SUITE A
SPRINGFIELD, IL 62703
PHONE: (217) 483-9457

Kaskaskia Engineering Group, LLC
PROFESSIONAL REGISTRATIONS — LICENSE NO.
Illinois Professional Design Firm — 184.004775
Professional Engineering Group — 20-3880386
208 E. MAIN STREET, SUITE 100
BELLEVILLE, IL 62220
PHONE: (618) 233-5877
FAX: (618) 233-5977

APPROVED
PAUL CASWELL, P.E. 10 /29 /2021
CITY ENGINEER

PASSED 12/01/21
DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW 12/01/21
REGION FOUR ENGINEER

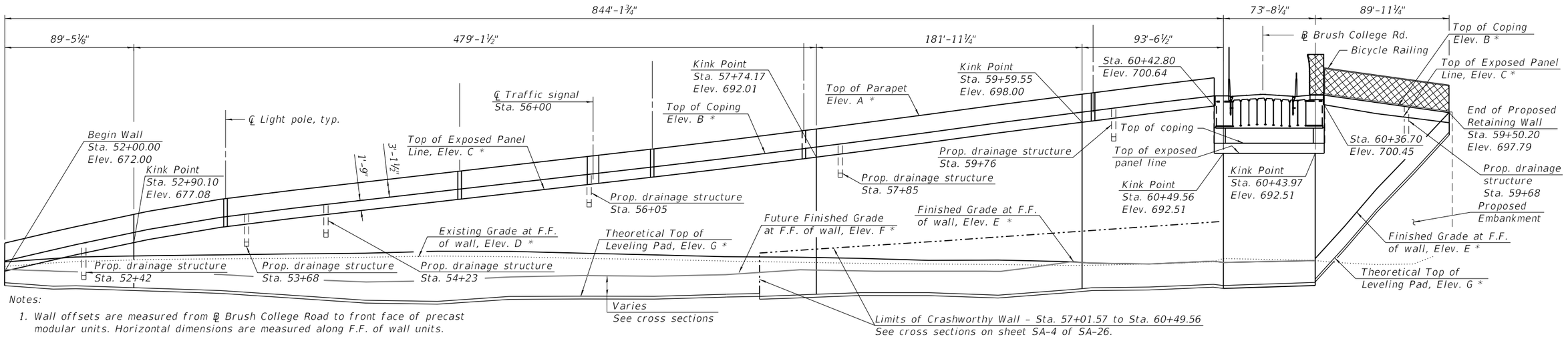
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAST SAVED DATE: S:\ATS\REVDATES

Benchmark: "M" in Mueller on fire hydrant at Southeast corner of Cerro Gordo St. and Brush College Rd. – Elev. 652.58.

Existing Structure: None

Traffic Control: The existing Brush College Road shall be closed and traffic will be detoured during construction.



Notes:

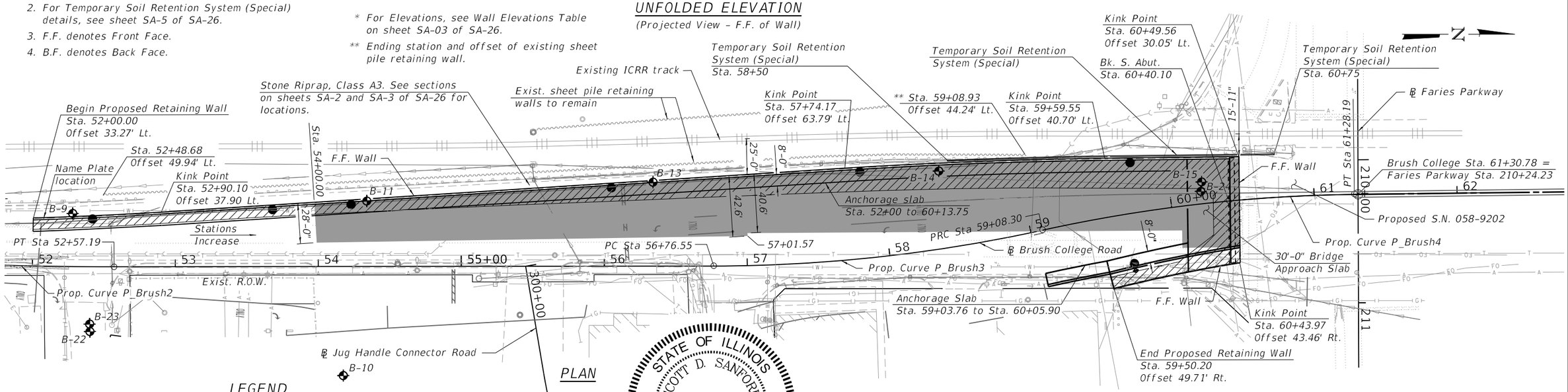
1. Wall offsets are measured from ℄ Brush College Road to front face of precast modular units. Horizontal dimensions are measured along F.F. of wall units.
2. For Temporary Soil Retention System (Special) details, see sheet SA-5 of SA-26.
3. F.F. denotes Front Face.
4. B.F. denotes Back Face.

* For Elevations, see Wall Elevations Table on sheet SA-03 of SA-26.

** Ending station and offset of existing sheet pile retaining wall.

UNFOLDED ELEVATION

(Projected View – F.F. of Wall)



PLAN

LEGEND

Soil Boring Location	Proposed above ground Lighting
A — Existing Aerial	Proposed above ground Inlet
E — Existing Electric	Proposed traffic signal
FO — Existing Fiber Optic	Approximate Limits of Precast Modular Retaining Wall Mass
G — Existing Gas	Approximate Limits of Lightweight Concrete Cellular Fill
Existing Sanitary Sewer	
Existing Storm Sewer	
T — Existing underground Telephone	
W — Existing Water	

STATE OF ILLINOIS
SCOTT D. SANFORD
081-005468
SPRINGFIELD
LICENSED STRUCTURAL ENGINEER

10-22-21

Expires: 11/30/2022

I certify that to the best of knowledge, information and belief, this structure design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

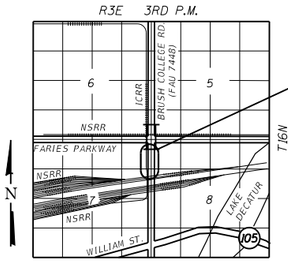
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
f'c = 4,000 psi (Superstructure)

PRECAST UNITS

f'c = 4,500 psi
Allowable Bearing Pressure = 2,670 psf



LOCATION SKETCH

GENERAL PLAN & ELEVATION
BRUSH COLLEGE ROAD
F.A.U. 7448 – SECTION 09-00933-01-BR
MACON COUNTY
STA. 52+00.00 LT TO STA. 59+50.20 RT
STRUCTURE NO. 058-W003

FILE NAME: c:\pwworking\jvlecom_dc16_na\d0315528\d0410069\d06092202_SN058W003.dgn

design firm no. 184001036

whks engineers + planners + land surveyors

USER NAME = dheberling	DESIGNED - SDS	REVISED	
FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED	
PLOT SCALE = 0.167 '/ in.	DRAWN - DLH	REVISED	
PLOT DATE = 10/26/2021	CHECKED - SDS	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. SA-01 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	569
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

LAST SAVED DATE: $LASTSAVEDDATE$

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Protective Coat shall be applied to the top and interior surfaces of the parapets and the top exposed surface of the Anchorage Slabs.
3. The Contractor shall field verify the location of all underground utilities. The contractor shall take precautions to protect existing underground utilities that are to remain in service during construction of the wall. Any damage to underground utilities will be the responsibility of the Contractor. For locations and elevations of utilities, see Utility Plans.
4. The Contractor may encounter abandoned utilities or drainage structures that obstruct construction of the proposed wall. Removal and disposal of portions of these obstructions shall not be cause for additional payment but shall be included in the cost of "Precast Modular Retaining Wall". For locations and elevations of utilities, see Utility Plans.
5. All Lightweight Cellular Concrete Fill shall be Class II. See Special Provisions.
6. The Contractor shall coordinate the construction of the proposed wall with the construction of the proposed bridge over Faries Parkway (S.N. 058-9202). See suggested Stages of Construction and Traffic Control plan sheets and Special Provisions.
7. For details and quantity of conduits embedded in structure, see Electrical Plans.
8. Fill type retaining walls (MSE and precast modular) shall be detailed and constructed to allow for proposed roadway drainage to be placed properly and as shown in the plans. Any requests for modification to drainage structure locations to accommodate wall reinforcement or details shall be submitted to the Engineer in writing for review. Any changes approved by the Engineer in writing will be coordinated by the Contractor at no additional cost.
9. Slipforming of east parapet is not allowed.

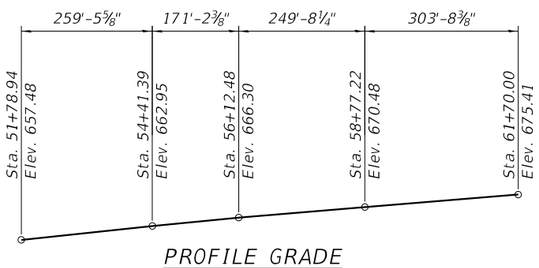
TOTAL BILL OF MATERIAL

ITEM	UNIT	Super	Sub	TOTAL
Structure Excavation	Cu. Yd.		3,890	3,890
Concrete Structures	Cu. Yd.		250.0	250.0
Concrete Superstructure	Cu. Yd.	536.0		536.0
Protective Coat	Sq. Yd.	1,221		1,221
Reinforcement Bars, Epoxy Coated	Pound	76,840		76,840
Bicycle Railing	Foot	55		55
Parapet Railing	Foot	100		100
Name Plates	Each	1		1
Precast Modular Retaining Wall	Sq. Ft.		19,343	19,343
Lightweight Cellular Concrete Fill	Cu. Yd.		18,134	18,134
Temporary Soil Retention System (Special)	Sq. Ft.		1,200	1,200
Portland Cement Concrete Sidewalk 5 inch, Special	Sq. Ft.	532		532
Pipe Underdrains for Structures 4"	Foot		652	652

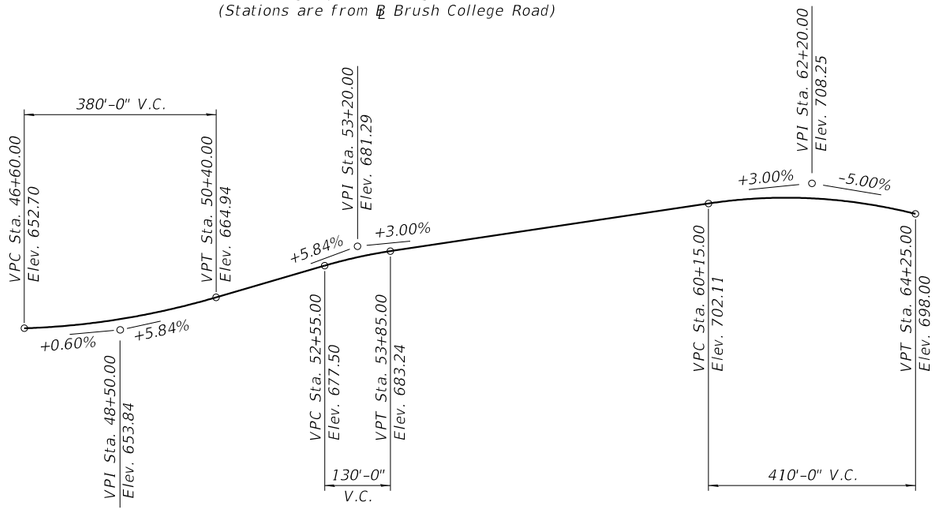
INDEX OF SHEETS

STA. 52+00.00 LT. TO 59+50.20 RT.
BUILT BY
CITY OF DECATUR
F.A.U. RT. 7448
SECTION 09-00933-01-BR
LOADING HL-93
STRUCTURE NO. 058-W003

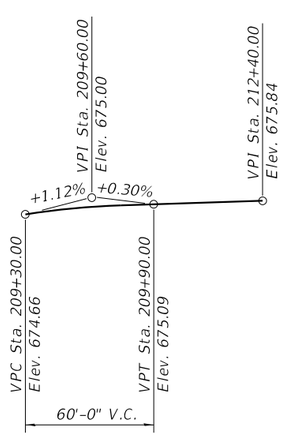
NAME PLATE
See Std. 515001



PROFILE GRADE
(Along top of existing rail ICRR)
(Stations are from ℄ Brush College Road)



PROFILE GRADE
(Along ℄ Brush College Road)



PROFILE GRADE
(Along ℄ Faries Parkway)

PROP. CURVE P_BRUSH2
BRUSH COLLEGE RD.

PI STA. = 51+91.51
Δ = 3° 00' 41" (LT)
D = 2° 17' 31"
R = 2,500.00'
T = 65.72'
L = 131.40'
E = 0.86'
e = NC
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 51+25.79
P.T. STA. = 52+57.19

PROP. CURVE P_BRUSH3
BRUSH COLLEGE RD.

PI STA. = 57+92.87
Δ = 12° 17' 41" (LT)
D = 5° 18' 19"
R = 1,080.00'
T = 116.32'
L = 231.75'
E = 6.25'
e = NC
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 56+76.55
P.T. STA. = 59+08.30

PROP. CURVE P_BRUSH4
BRUSH COLLEGE RD.

PI STA. = 60+18.63
Δ = 11° 39' 57" (RT)
D = 5° 18' 19"
R = 1,080.00'
T = 110.33'
L = 219.89'
E = 5.62'
e = NC
T.R. = N/A
S.E. RUN = N/A
P.C. STA. = 59+08.30
P.T. STA. = 61+28.19

FILE NAME: c:\pwworking\jvecom_ds16_na\hesb35528\d9440089\60603202_SN058W003.dgn

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FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED
PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED
PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 058-W003
SHEET NO. SA-02 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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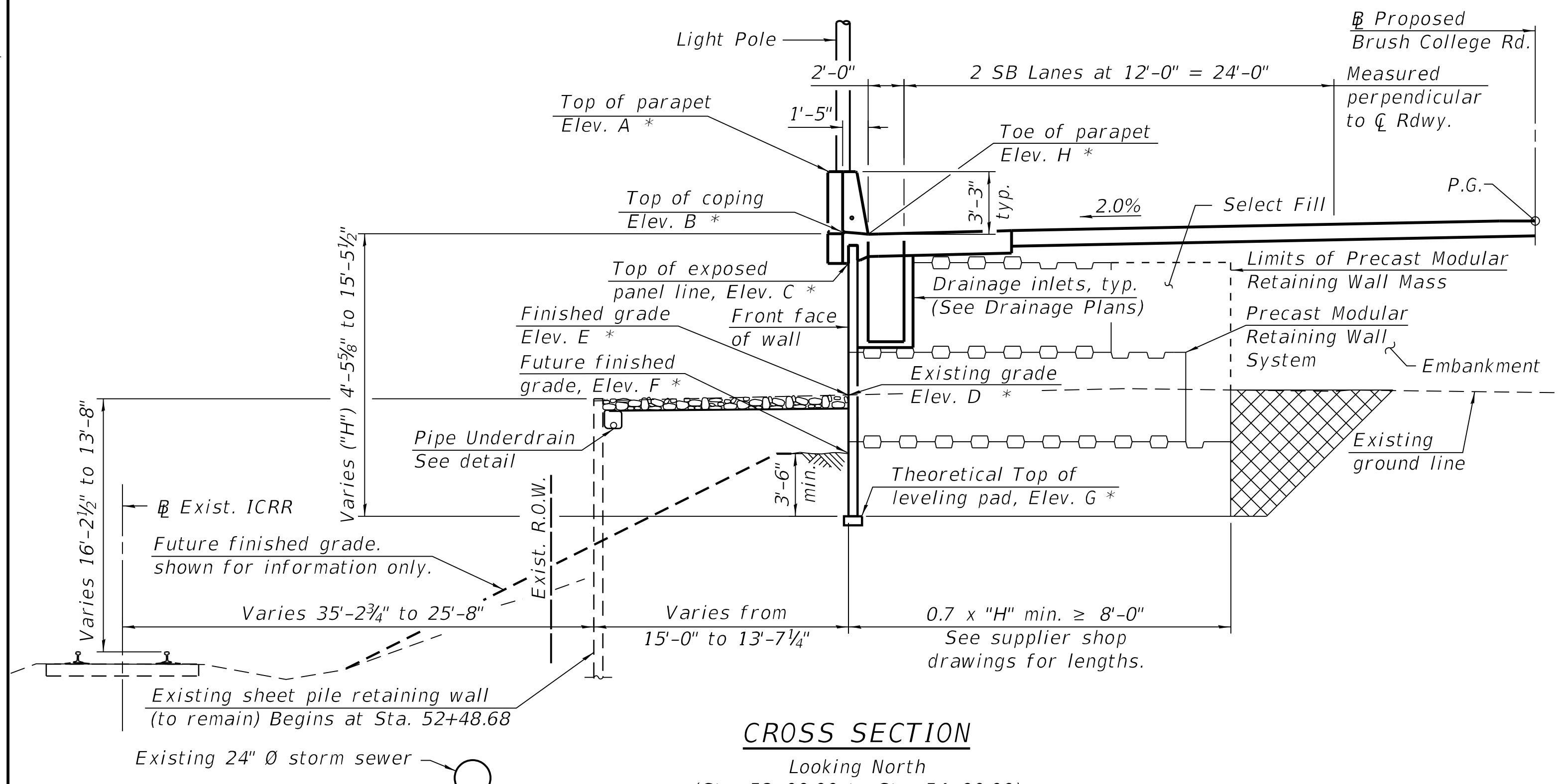
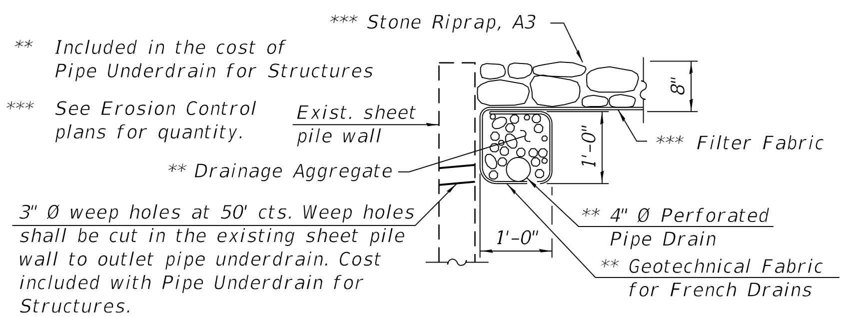
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			



CROSS SECTION

Looking North
(Sta. 52+00.00 to Sta. 54+00.00)



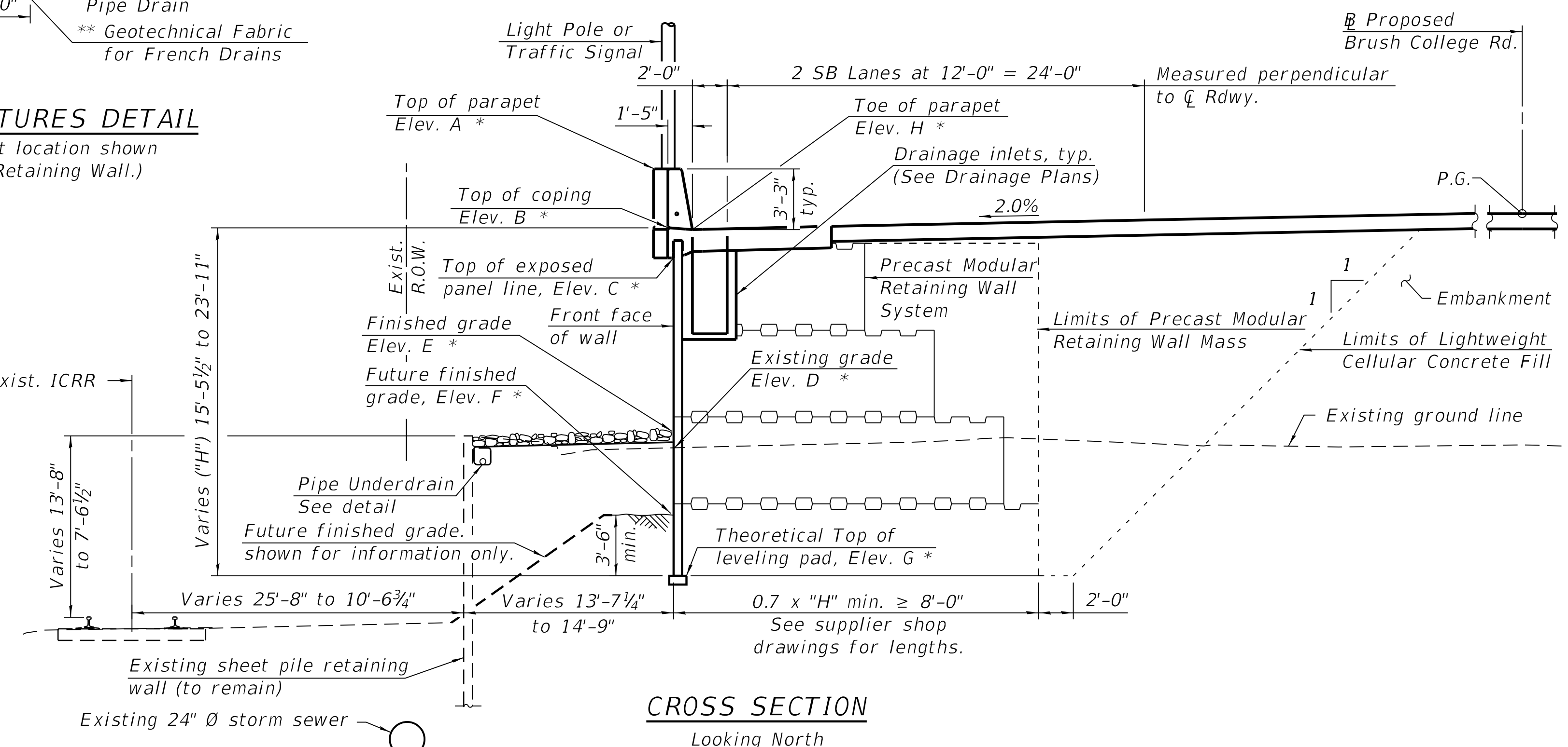
PIPE UNDERDRAIN FOR STRUCTURES DETAIL

(Install Pipe Underdrain for Structures at location shown for entire length of Existing Sheet Pile Retaining Wall.)

WALL ELEVATIONS

Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G	Elevation H
52+00.00	33.27 LT	676.87	673.75	672.00	672.90	673.68	673.57	670.07	673.62
52+50.00	35.70 LT	679.79	676.67	674.92	673.72	674.52	673.04	669.54	676.54
52+90.10	37.90 LT	681.95	678.83	677.08	674.24	674.69	672.59	669.09	678.70
53+00.00	38.52 LT	682.43	679.31	677.56	674.10	674.74	672.64	669.14	679.18
53+50.00	41.66 LT	684.51	681.39	679.64	674.21	674.89	672.23	668.73	681.26
54+00.00	44.80 LT	686.08	682.96	681.21	674.30	675.07	671.40	667.90	682.83
54+50.00	47.94 LT	687.51	684.39	682.64	674.48	675.18	670.55	667.05	684.26
55+00.00	51.08 LT	688.95	685.83	684.08	674.69	675.53	670.35	666.85	685.70
55+50.00	54.22 LT	690.38	687.26	685.51	674.58	675.51	671.19	667.69	687.13
56+00.00	57.36 LT	691.82	688.70	686.95	674.28	675.19	671.26	667.76	688.57
56+50.00	60.50 LT	693.25	690.13	688.38	674.10	674.89	671.23	667.73	690.00
57+00.00	63.32 LT	694.69	691.57	689.82	673.84	674.58	671.57	668.07	691.44
57+01.57-	63.38 LT	694.74	691.62	689.87	673.80	674.58	671.59	668.09	691.49
57.01.57+	63.38 LT	694.74	691.62	689.87	673.80	674.58	671.59	667.59	691.49
57+50.00	64.16 LT	696.16	693.04	691.29	673.63	674.51	672.32	668.32	692.91
57+74.17	63.79 LT	696.88	693.76	692.01	673.53	674.41	672.55	668.55	693.63
58+00.00	62.74 LT	697.67	694.55	692.80	673.44	674.28	672.77	668.77	694.42
58+50.00	58.55 LT	699.24	696.12	694.37	673.31	673.95	672.35	668.35	695.99
59+00.00	51.45 LT	700.86	697.74	695.99	673.23	674.00	671.92	667.92	697.61
59+50.00	42.29 LT	702.55	699.43	697.68	673.07	673.71	-	669.71	699.30
59+59.55	40.70 LT	702.87	699.75	698.00	673.10	673.49	-	669.49	699.62
60+00.00	34.92 LT	704.20	701.08	699.33	673.32	673.32	-	669.32	700.95
60+42.80	30.55 LT	705.51	702.39	700.64	673.70	673.80	-	669.80	702.26
60+49.56	30.05 LT	-	694.26	692.51	674.26	673.59	-	669.59	-
60+43.97 -	43.46 RT	-	694.26	692.51	673.92	680.24	-	676.24	-
60+43.97 +	43.46 RT	-	694.26	692.51	673.92	680.24	-	676.74	-
60+36.70	43.94 RT	-	702.20	700.45	673.70	681.74	-	678.24	-
60+25.00	44.53 RT	-	701.87	700.12	673.52	684.15	-	680.65	-
60+00.00	46.40 RT	-	701.10	699.35	673.52	689.31	-	685.81	-
59+75.00	48.07 RT	-	700.31	698.56	673.31	694.45	-	690.95	-
59+50.20	49.71 RT	-	699.54	697.79	675.64	699.54	-	696.04	-

Elevation A - Top of Parapet
Elevation B - Top of Coping
Elevation C - Top of Exposed Panel Line
Elevation D - Existing Grade at F.F. of wall
Elevation E - Finished Grade at F.F. of wall
Elevation F - Future Finished Grade at F.F. of wall (For information only)
Elevation G - Theoretical Top of Leveling Pad
Elevation H - Toe of Parapet



CROSS SECTION

Looking North
(Sta. 54+00.00 to Sta. 57+01.57)

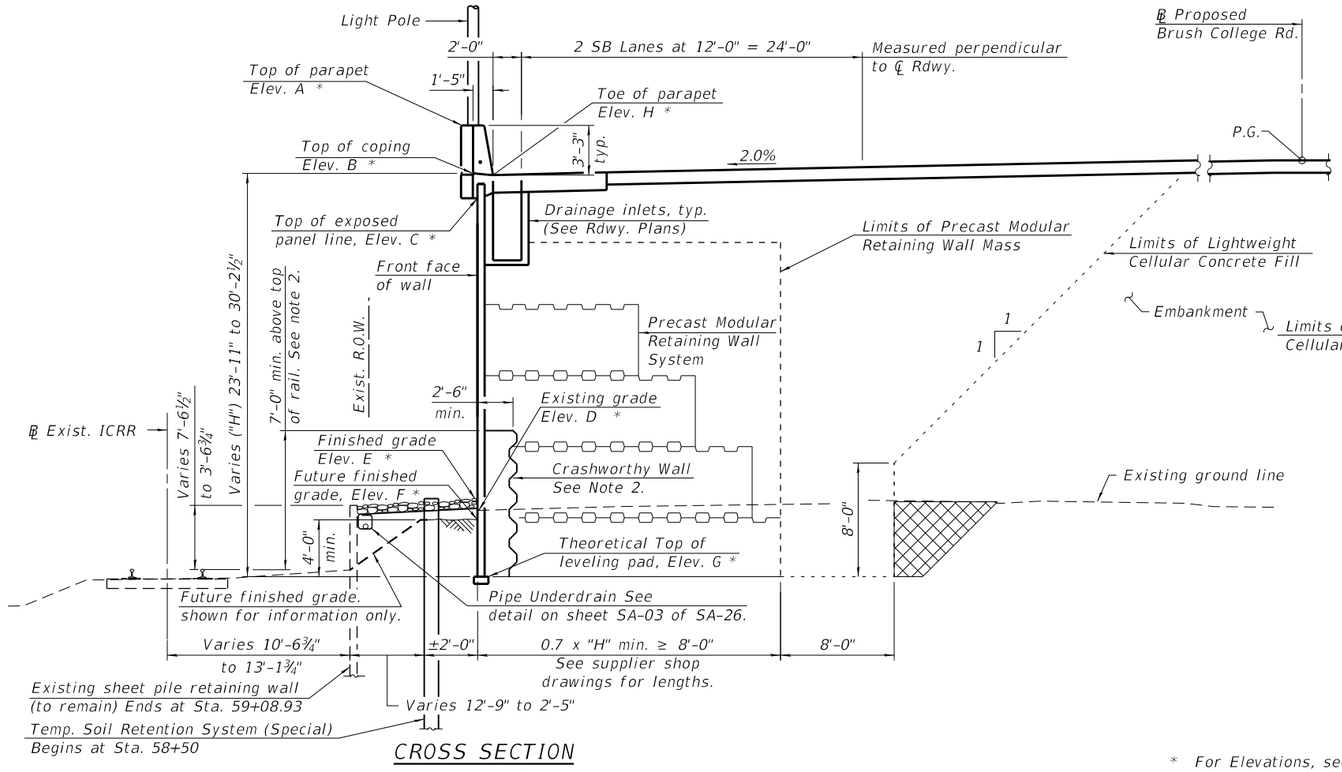
LEGEND

(Cross-hatched symbol) Over excavation beyond the limits of Structure Excavation. This area not measured for payment. Area to be back-filled with the same material as used for Select Fill or Lightweight Cellular Concrete Fill.

Note:

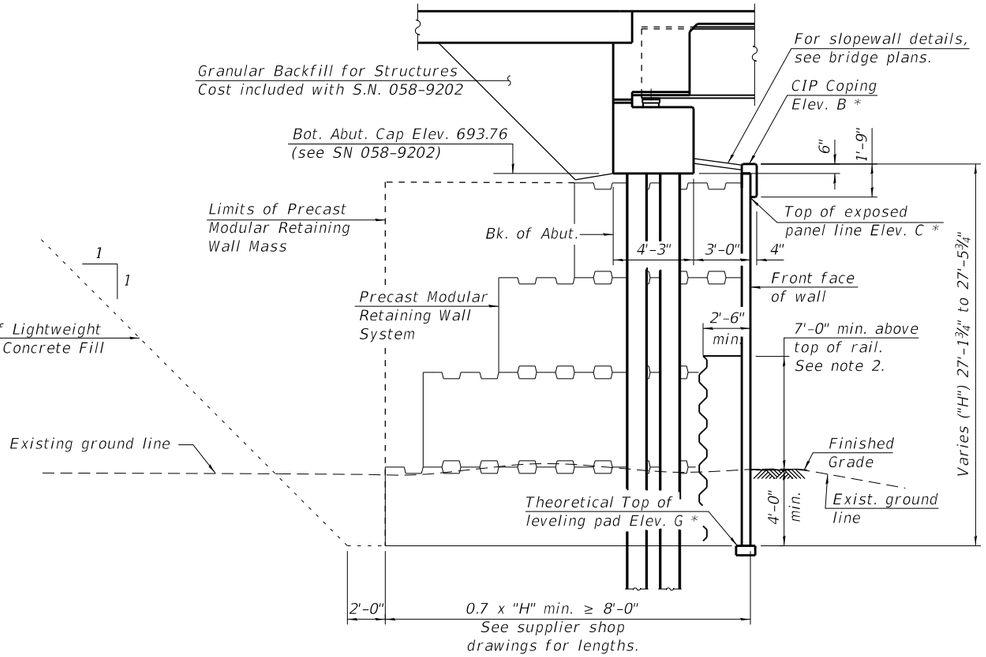
1. The Precast Modular Retaining Wall supplier's internal stability design shall account for anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.67 kips/ft. of wall.
2. Horizontal dimensions are measured perpendicular to the F.F. of wall unless noted otherwise.

* For Elevations, see Wall Elevations Table above.



CROSS SECTION

Looking North
(Sta. 57+01.57 to Sta. 59+50.20)



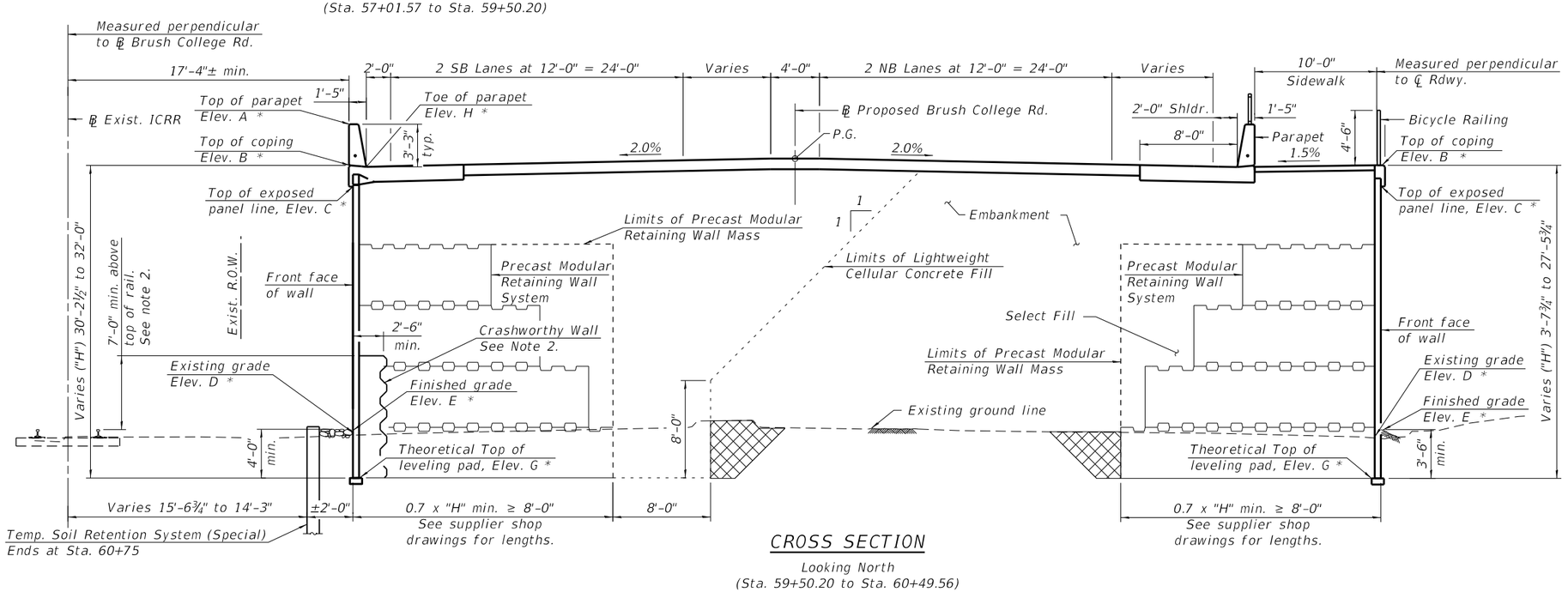
CROSS SECTION AT ABUTMENT

Looking West

* For Elevations, see Wall Elevations Table on sheet SA-03 of SA-26.

LEGEND

Over excavation beyond the limits of Structure Excavation. This area not measured for payment. Area to be back-filled with the same material as used for Select Fill or Lightweight Cellular Concrete Fill.



CROSS SECTION

Looking North
(Sta. 59+50.20 to Sta. 60+49.56)

Note:

1. The Precast Modular Retaining Wall supplier's internal stability design shall account for anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.67 kips/ft. of wall.
2. Retaining wall shall be Crashworthy per 2020 Manual for Railway Engineering from a min. of 7'-0" above top of rail down to top of leveling pad for wall within 25' of the ℄ existing rail from Sta. 57+01.57 Rt. to Sta. 60+49.56 Rt., see cross sections. Cost of crashworthy concrete mass paid for as Concrete Structures.
3. Horizontal dimensions are measured perpendicular to the F.F. of wall unless noted otherwise.

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	PLOT SCALE = 0.167 '/ in.	DRAWN - DLH	REVISED
	PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL CROSS SECTIONS AND DETAILS 2
STRUCTURE NO. 058-W003
SHEET NO. SA-04 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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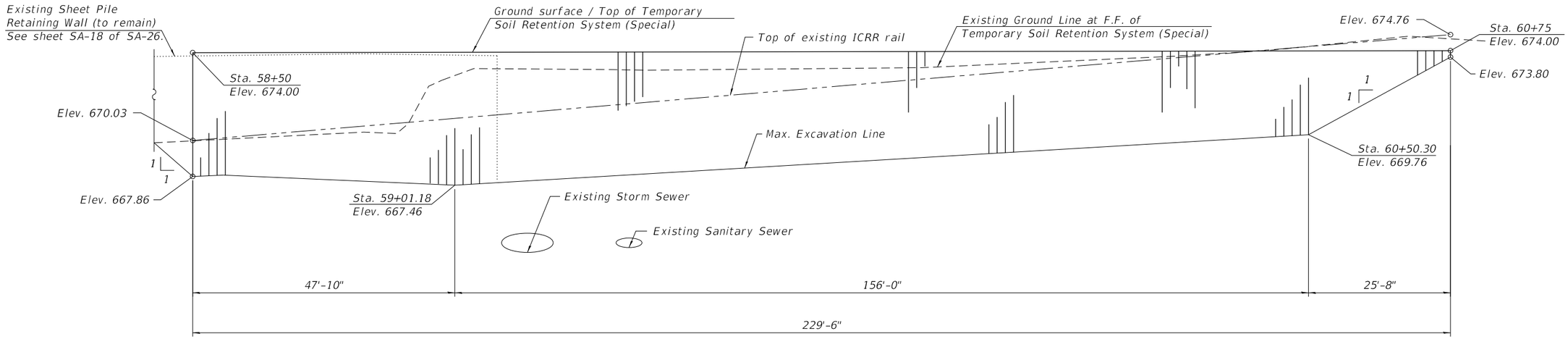
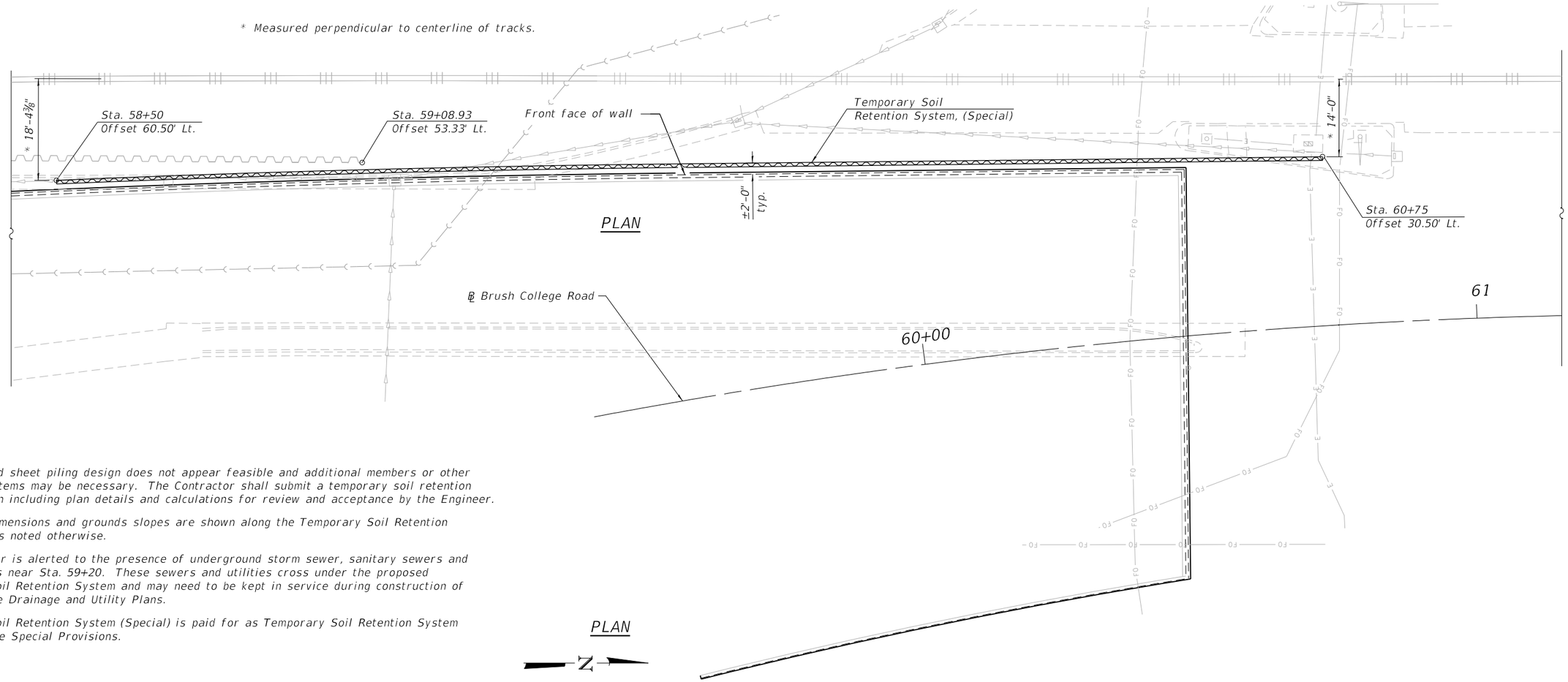
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



ELEVATION



PLAN

Notes:

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
2. Horizontal dimensions and grounds slopes are shown along the Temporary Soil Retention System unless noted otherwise.
3. The contractor is alerted to the presence of underground storm sewer, sanitary sewers and other utilities near Sta. 59+20. These sewers and utilities cross under the proposed Temporary Soil Retention System and may need to be kept in service during construction of the wall. See Drainage and Utility Plans.
4. Temporary Soil Retention System (Special) is paid for as Temporary Soil Retention System (Special). See Special Provisions.

PLAN

N

design firm no. 184001036
whks engineers + planners + land surveyors

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PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM, (SPECIAL)
STRUCTURE NO. 058-W003
SHEET NO. SA-05 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

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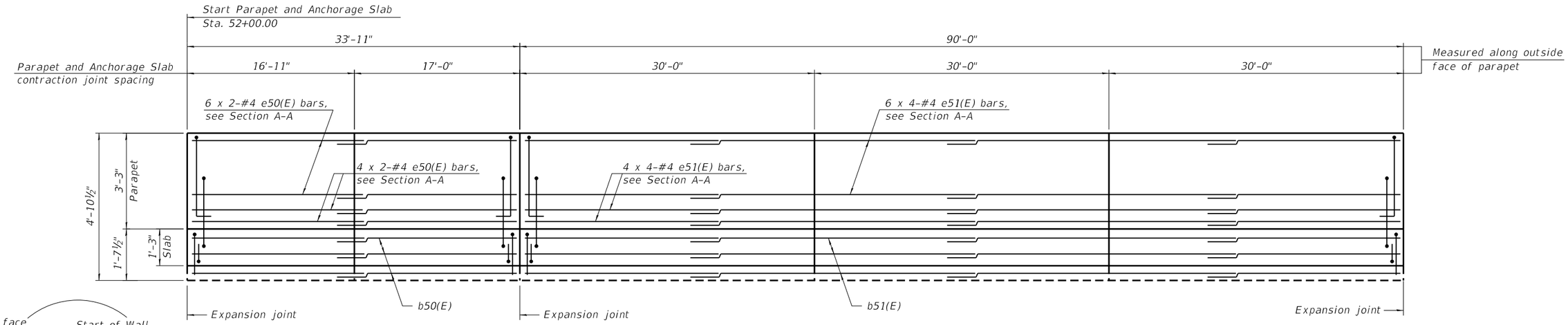
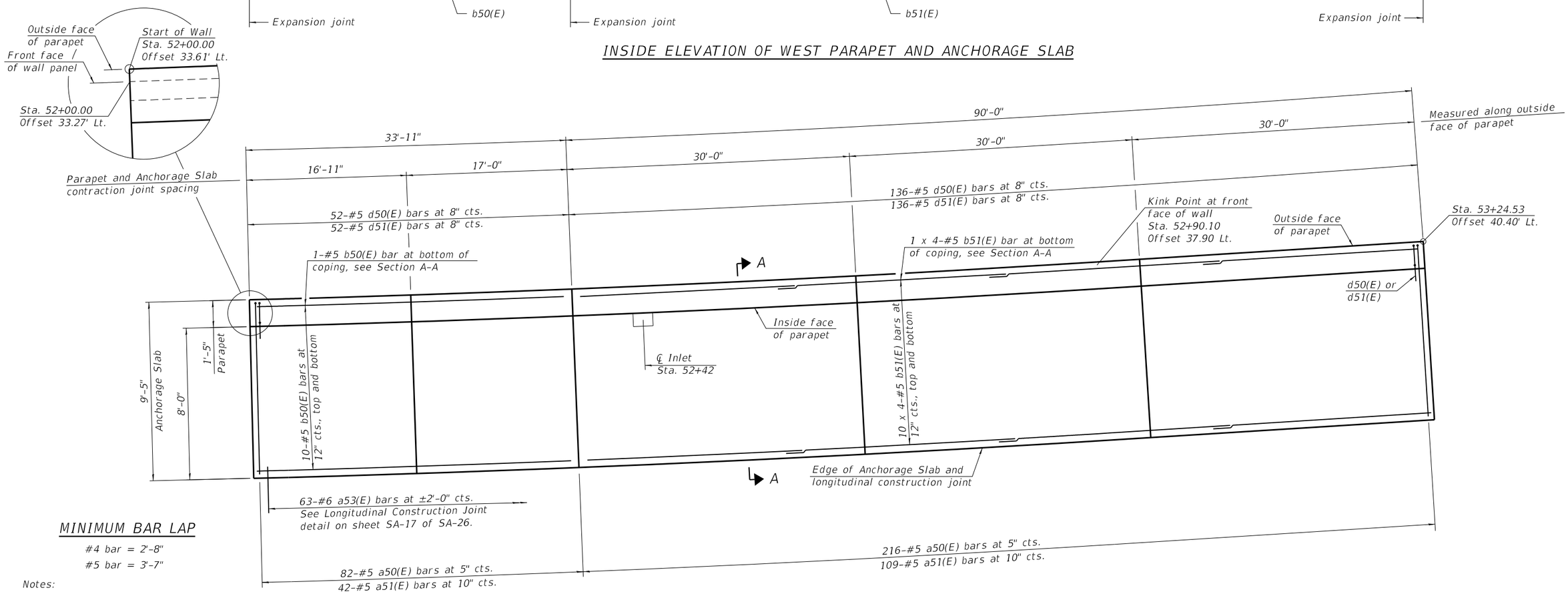


INSIDE ELEVATION OF WEST PARAPET AND ANCHORAGE SLAB



MINIMUM BAR LAP

#4 bar = 2'-8"

#5 bar = 3'-7"

Notes:

1. For Section A-A see sheet SA-16 of SA-26.
2. See sheet SA-16 of SA-26 for Anchorage Slab details, light pole details, parapet joint details, bar bend details and Bill of Material.
3. Portion of Anchorage Slab within the traveled way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
4. For light pole, traffic signal and junction box details, see Electrical Plans.
5. Stations and offsets are measured from ℄ Brush College Road.

WEST PARAPET AND ANCHORAGE SLAB PLAN

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PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION 1
STRUCTURE NO. 058-W003
SHEET NO. SA-06 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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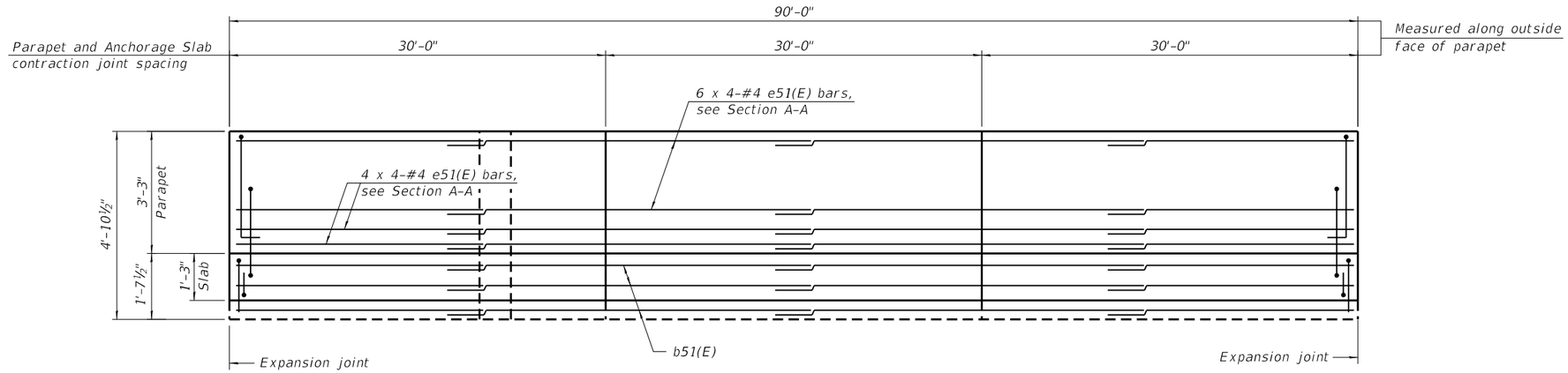
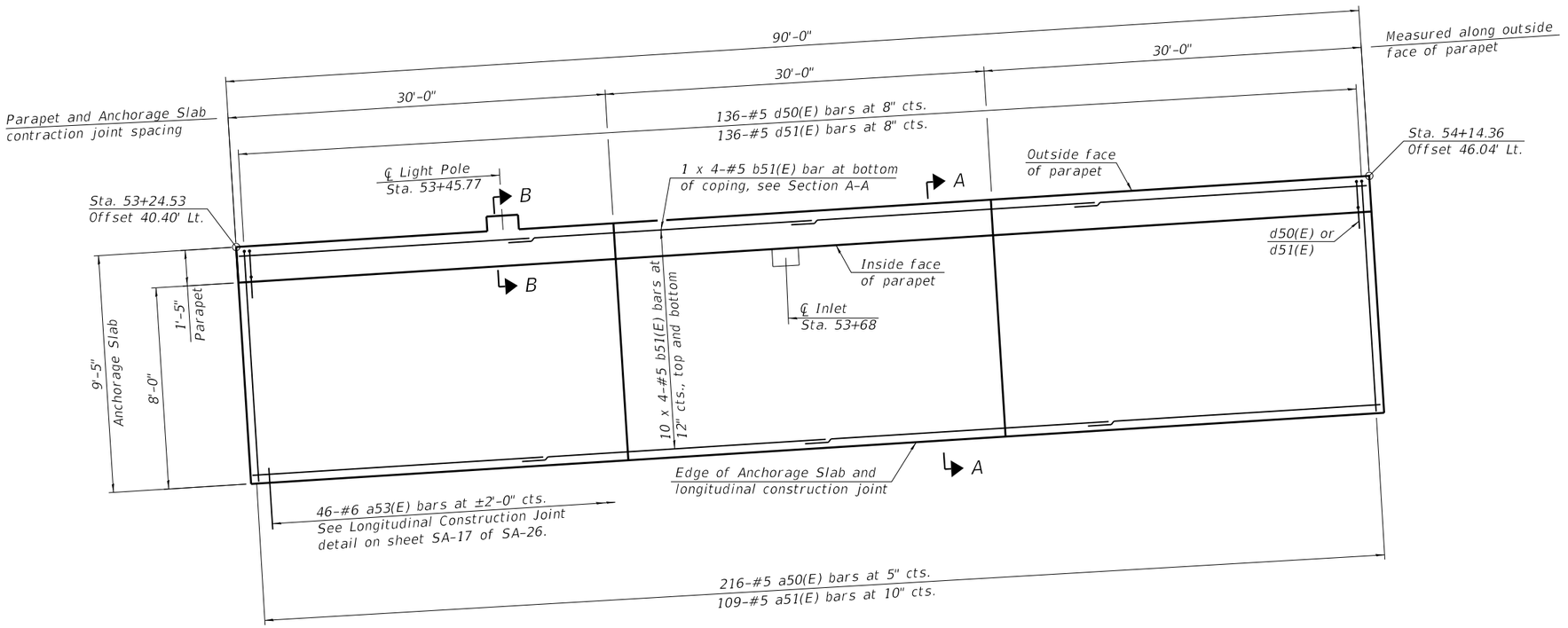
	ILLINOIS FED. AID PROJECT			



INSIDE ELEVATION OF WEST PARAPET AND ANCHORAGE SLAB



WEST PARAPET AND ANCHORAGE SLAB PLAN

MINIMUM BAR LAP

#4 bar = 2'-8"

#5 bar = 3'-7"

Notes:

1. For Section A-A and B-B see sheet SA-16 of SA-26.
2. See sheet SA-16 of SA-26 for Anchorage Slab details, light pole details, parapet joint details, bar bend details and Bill of Material.
3. Portion of Anchorage Slab within the traveled way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
4. For light pole, traffic signal and junction box details, see Electrical Plans.
5. Stations and offsets are measured from ℄ Brush College Road.

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PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION 2
STRUCTURE NO. 058-W003
SHEET NO. SA-07 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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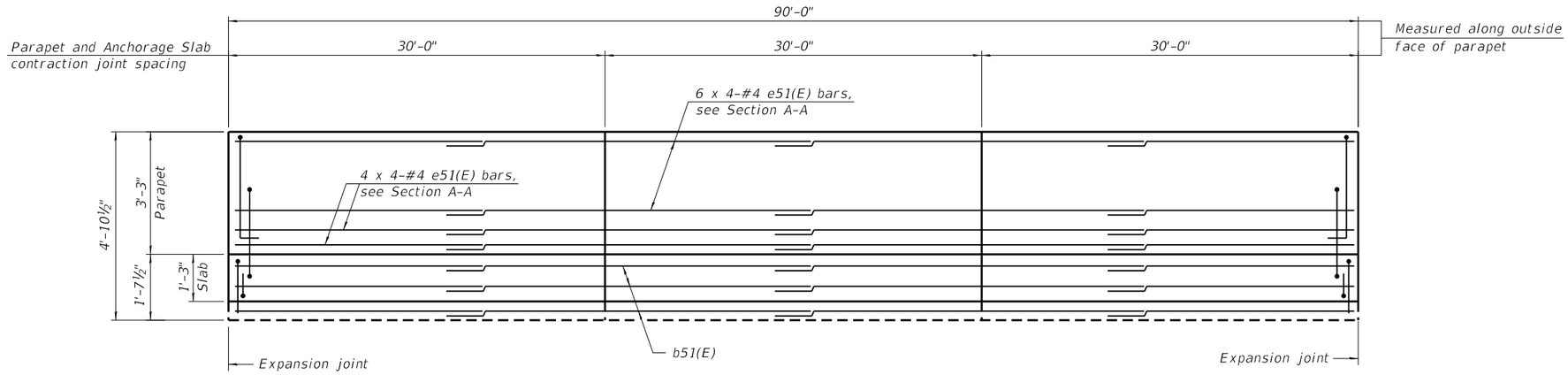
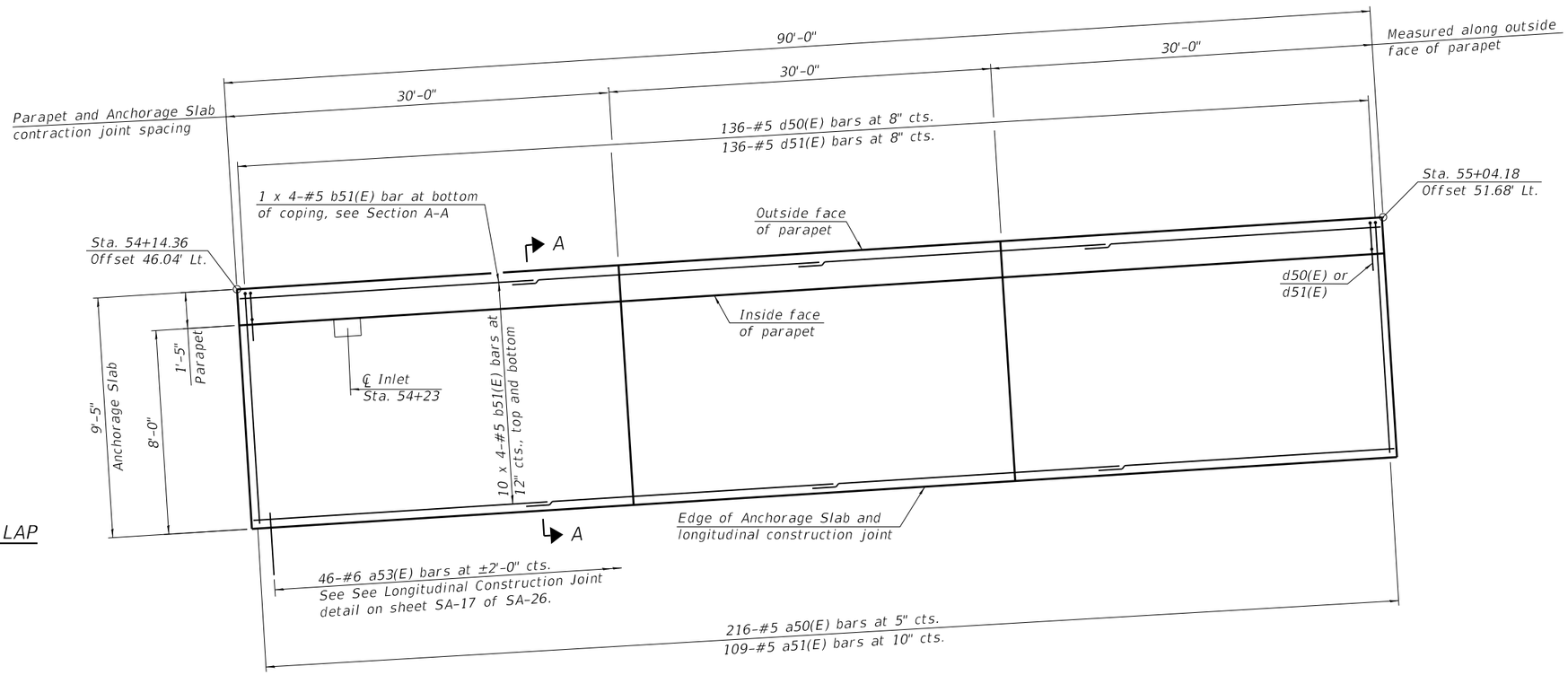


INSIDE ELEVATION OF WEST PARAPET AND ANCHORAGE SLAB



WEST PARAPET AND ANCHORAGE SLAB PLAN

MINIMUM BAR LAP

#4 bar = 2'-8"

#5 bar = 3'-7"

Notes:

1. For Section A-A see sheet SA-16 of SA-26.
2. See sheet SA-16 of SA-26 for Anchorage Slab details, light pole details, parapet joint details, bar bend details and Bill of Material.
3. Portion of Anchorage Slab within the traveled way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
4. For light pole, traffic signal and junction box details, see Electrical Plans.
5. Stations and offsets are measured from ℄ Brush College Road.

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PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION 3
STRUCTURE NO. 058-W003
SHEET NO. SA-08 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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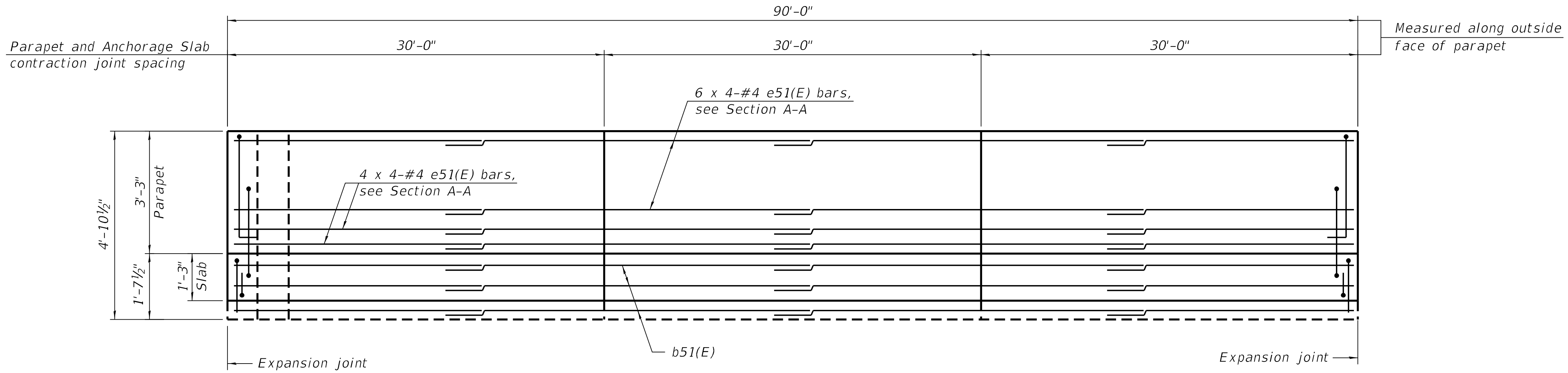
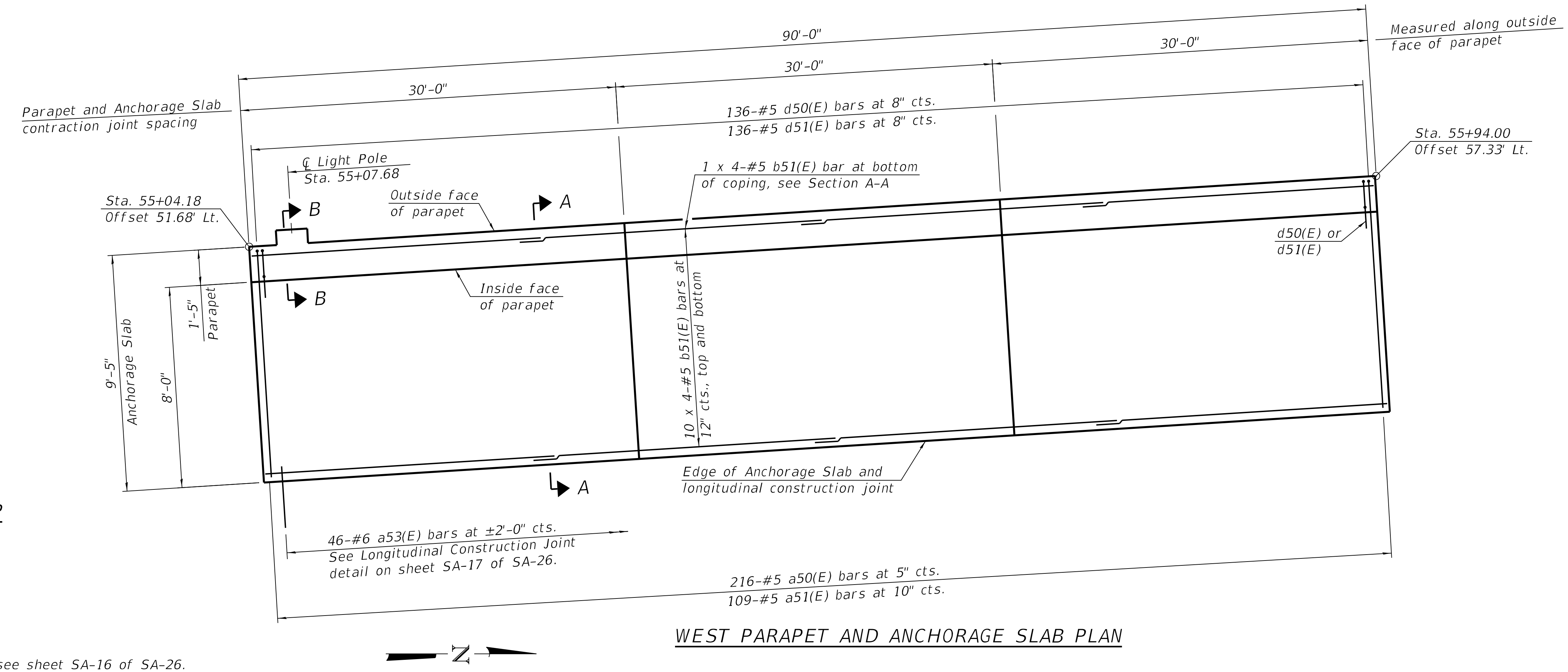
	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION OF WEST PARAPET AND ANCHORAGE SLAB



WEST PARAPET AND ANCHORAGE SLAB PLAN

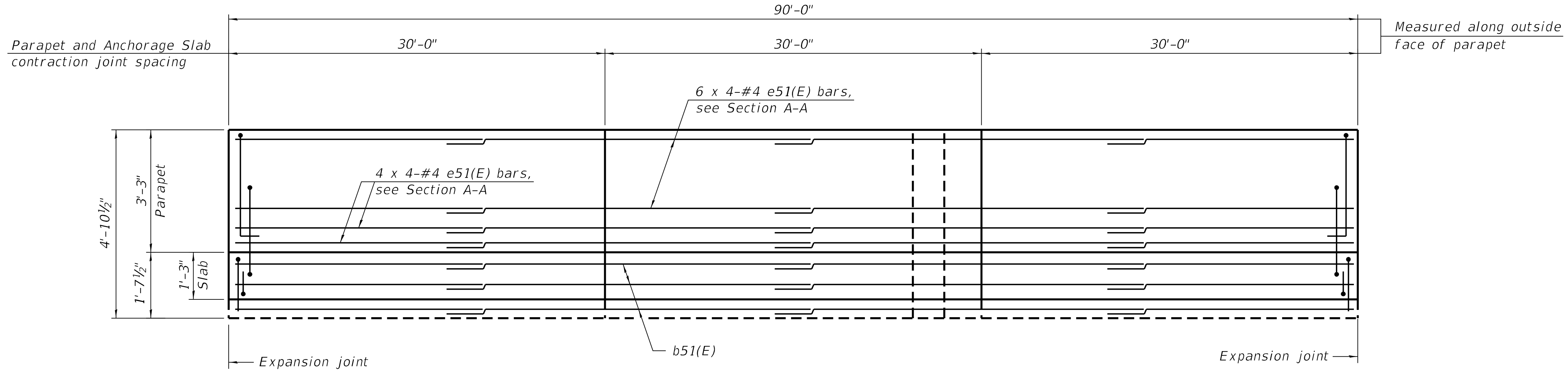
MINIMUM BAR LAP

#4 bar = 2'-8"

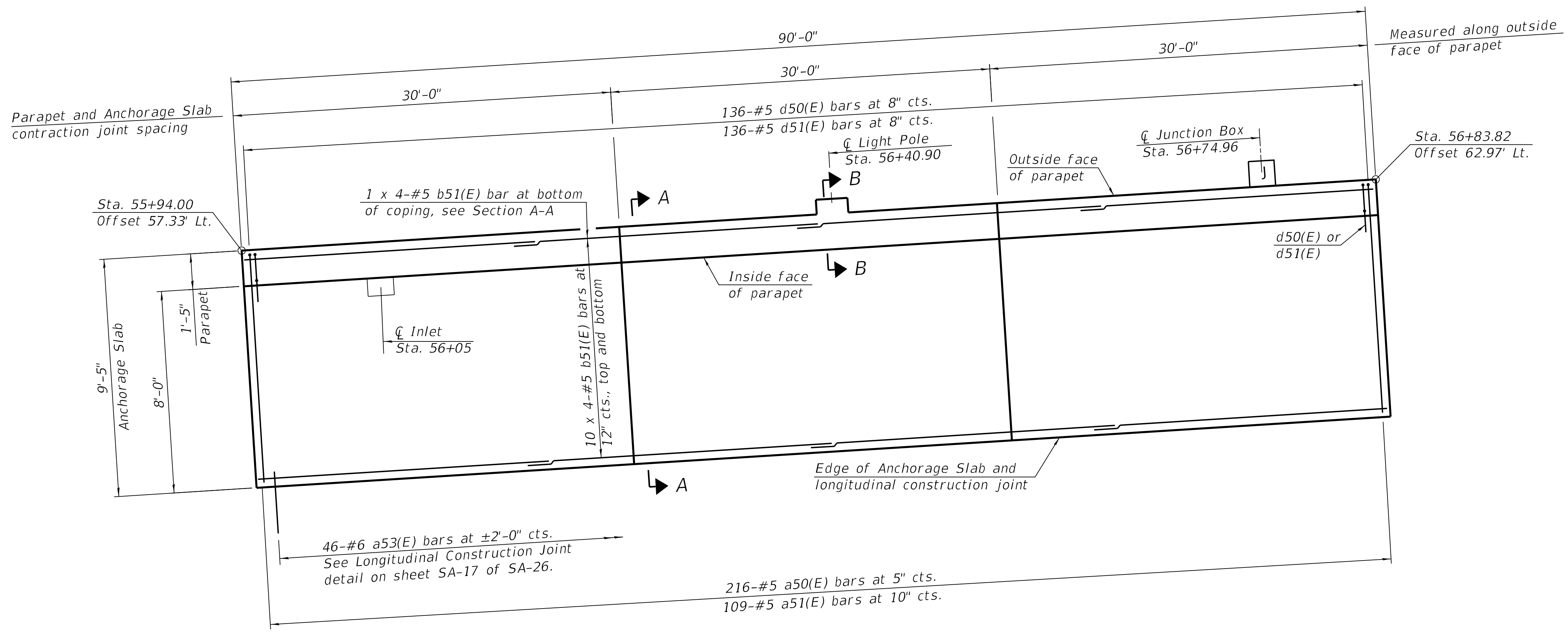
#5 bar = 3'-7"

Notes:

1. For Section A-A and B-B see sheet SA-16 of SA-26.
2. See sheet SA-16 of SA-26 for Anchorage Slab details, light pole details, parapet joint details, bar bend details and Bill of Material.
3. Portion of Anchorage Slab within the traveled way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
4. For light pole, traffic signal and junction box details, see Electrical Plans.
5. Stations and offsets are measured from ℄ Brush College Road.



INSIDE ELEVATION OF WEST PARAPET AND ANCHORAGE SLAB



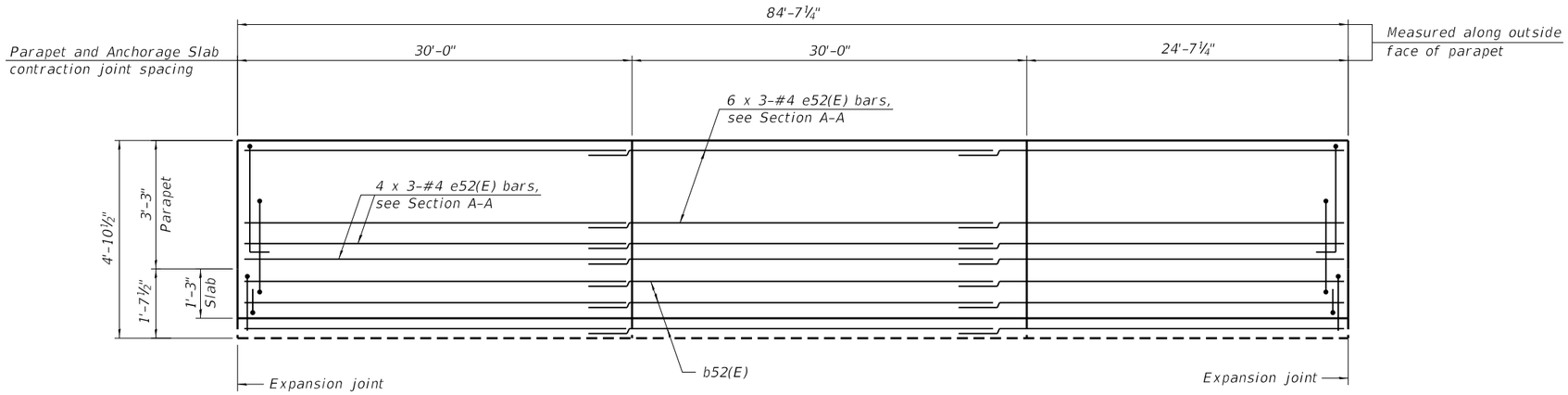
WEST PARAPET AND ANCHORAGE SLAB PLAN

MINIMUM BAR LAP

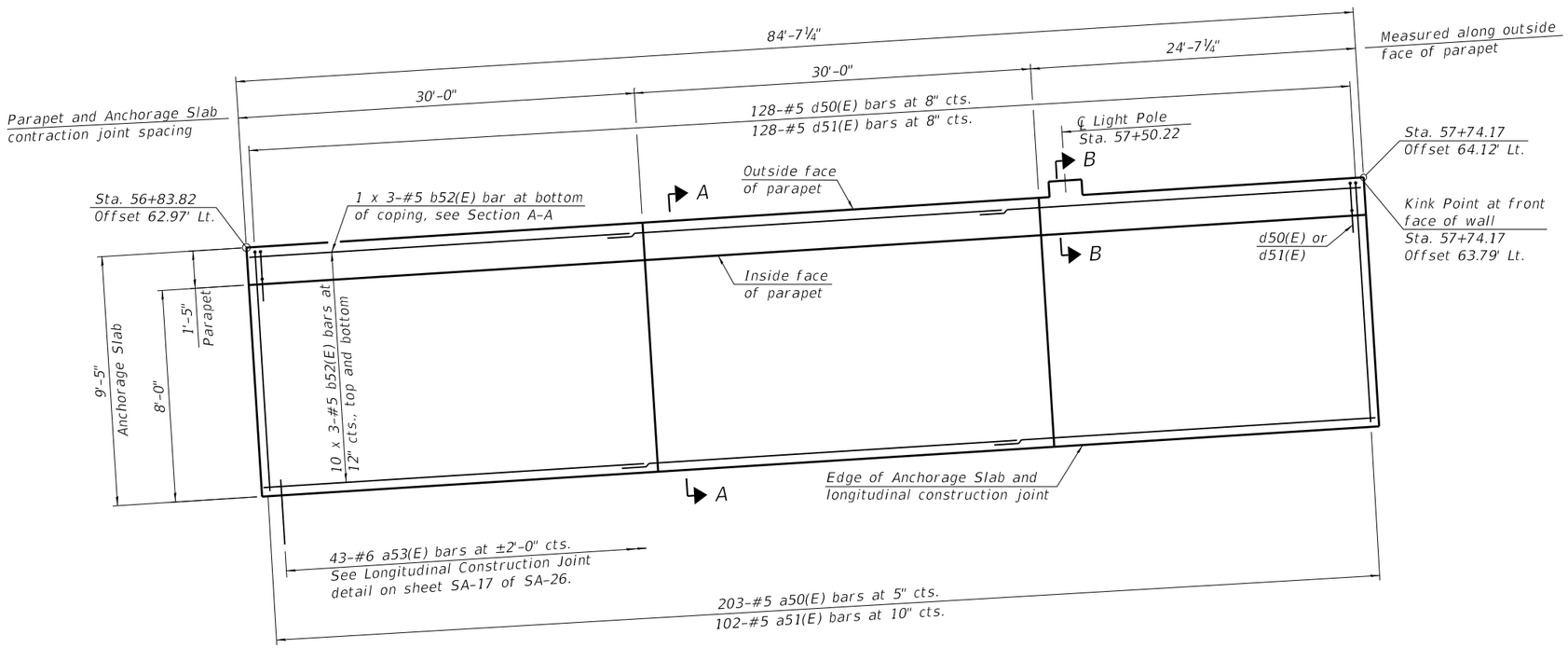
#4 bar = 2'-8"
#5 bar = 3'-7"

Notes:

1. For Section A-A and B-B see sheet SA-16 of SA-26.
2. See sheet SA-16 of SA-26 for Anchorage Slab details, light pole details, parapet joint details, bar bend details and Bill of Material.
3. Portion of Anchorage Slab within the traveled way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
4. For light pole, traffic signal and junction box details, see Electrical Plans.
5. Stations and offsets are measured from ℄ Brush College Road.



INSIDE ELEVATION OF WEST PARAPET AND ANCHORAGE SLAB



WEST PARAPET AND ANCHORAGE SLAB PLAN

MINIMUM BAR LAP

#4 bar = 2'-8"

#5 bar = 3'-7"

Notes:

1. For Section A-A and B-B see sheet SA-16 of SA-26.
2. See sheet SA-16 of SA-26 for Anchorage Slab details, light pole details, parapet joint details, bar bend details and Bill of Material.
3. Portion of Anchorage Slab within the traveled way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
4. For light pole, traffic signal and junction box details, see Electrical Plans.
5. Stations and offsets are measured from ℄ Brush College Road.

LAST SAVED DATE: $LASTSAVEDDATE$

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design firm no. 184001036

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION 6
STRUCTURE NO. 058-W003

SHEET NO. SA-11 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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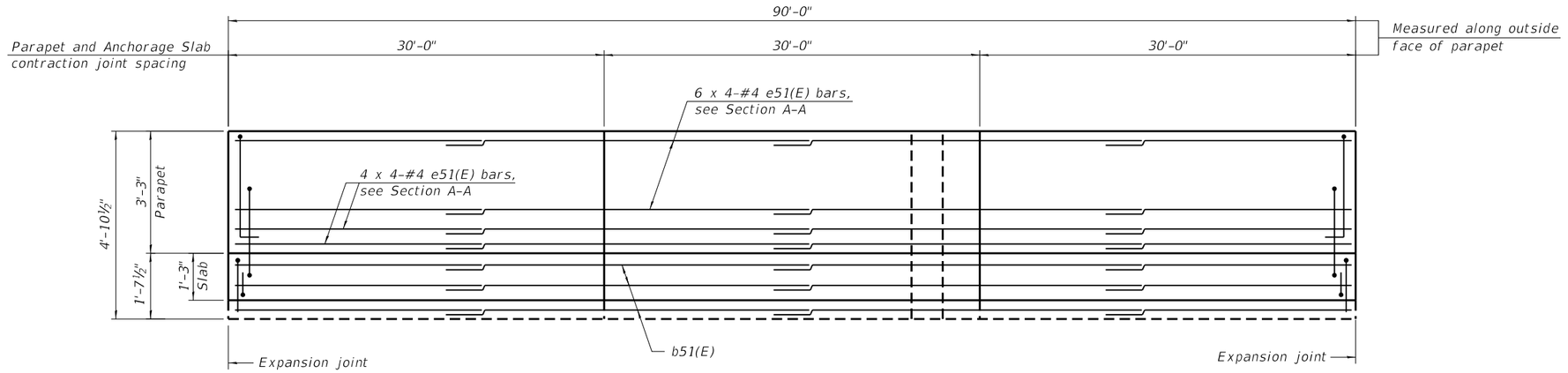
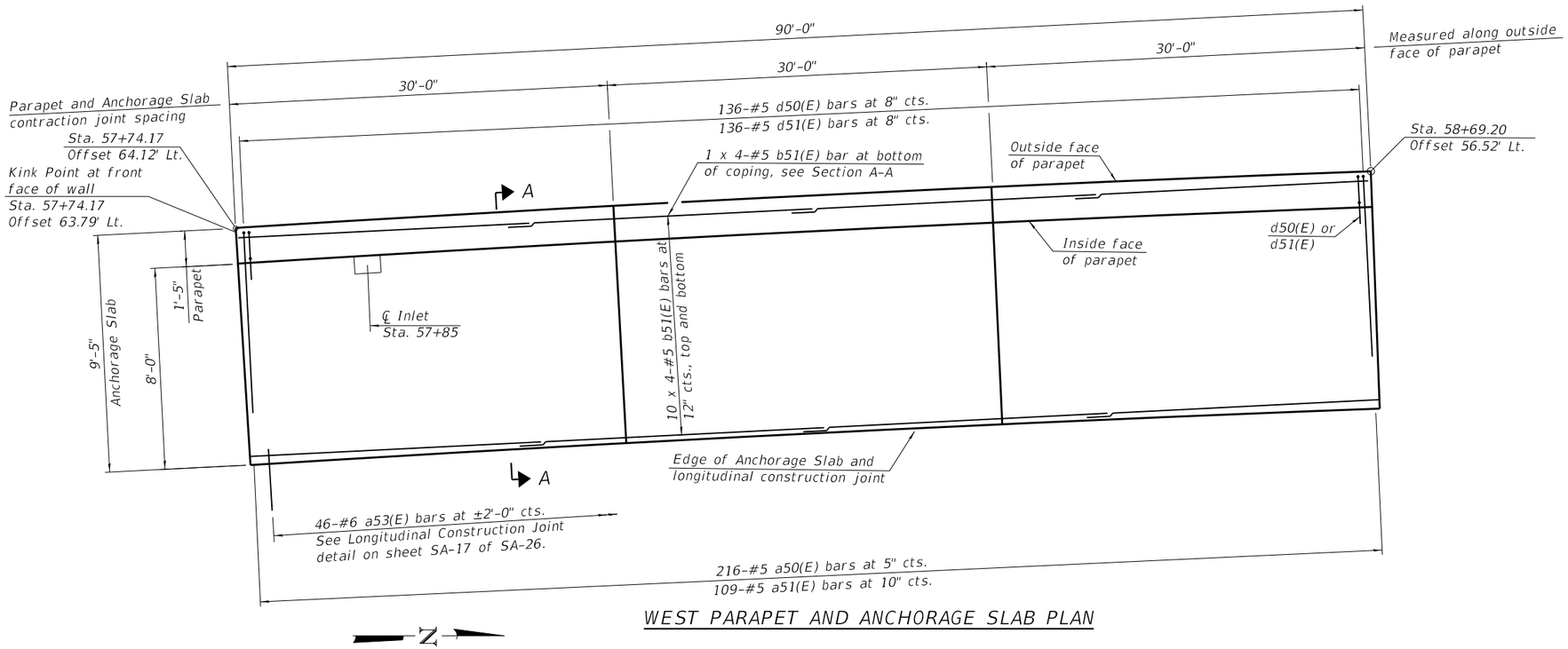
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			



INSIDE ELEVATION OF WEST PARAPET AND ANCHORAGE SLAB



WEST PARAPET AND ANCHORAGE SLAB PLAN

MINIMUM BAR LAP

#4 bar = 2'-8"

#5 bar = 3'-7"

Notes:

1. For Section A-A see sheet SA-16 of SA-26.
2. See sheet SA-16 of SA-26 for Anchorage Slab details, light pole details, parapet joint details, bar bend details and Bill of Material.
3. Portion of Anchorage Slab within the traveled way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
4. For light pole, traffic signal and junction box details, see Electrical Plans.
5. Stations and offsets are measured from ℄ Brush College Road.

design firm no. 184001036
whks engineers + planners + land surveyors

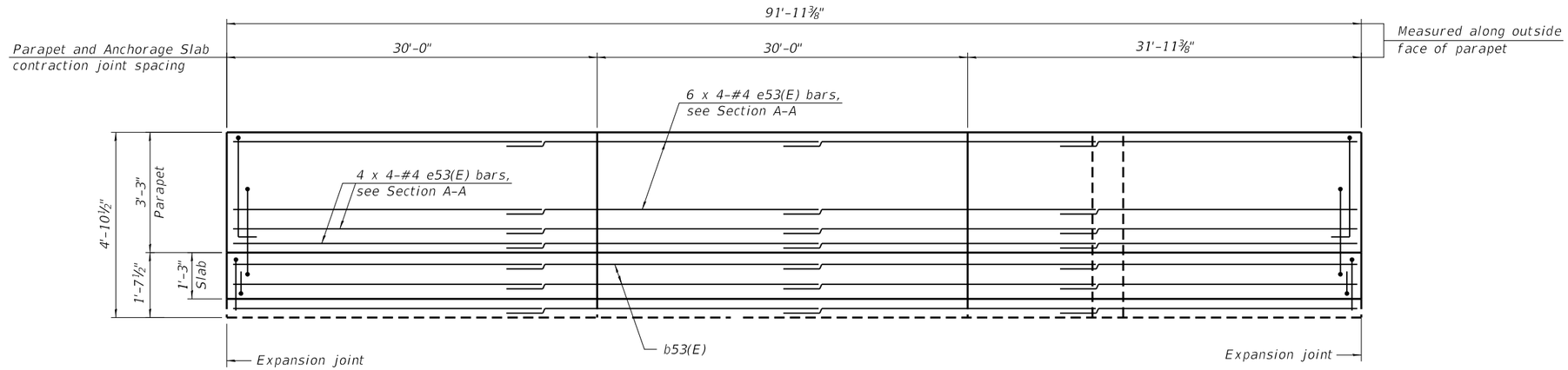
USER NAME = dheberling	DESIGNED - SDS	REVISED	
FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED	
PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED	
PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

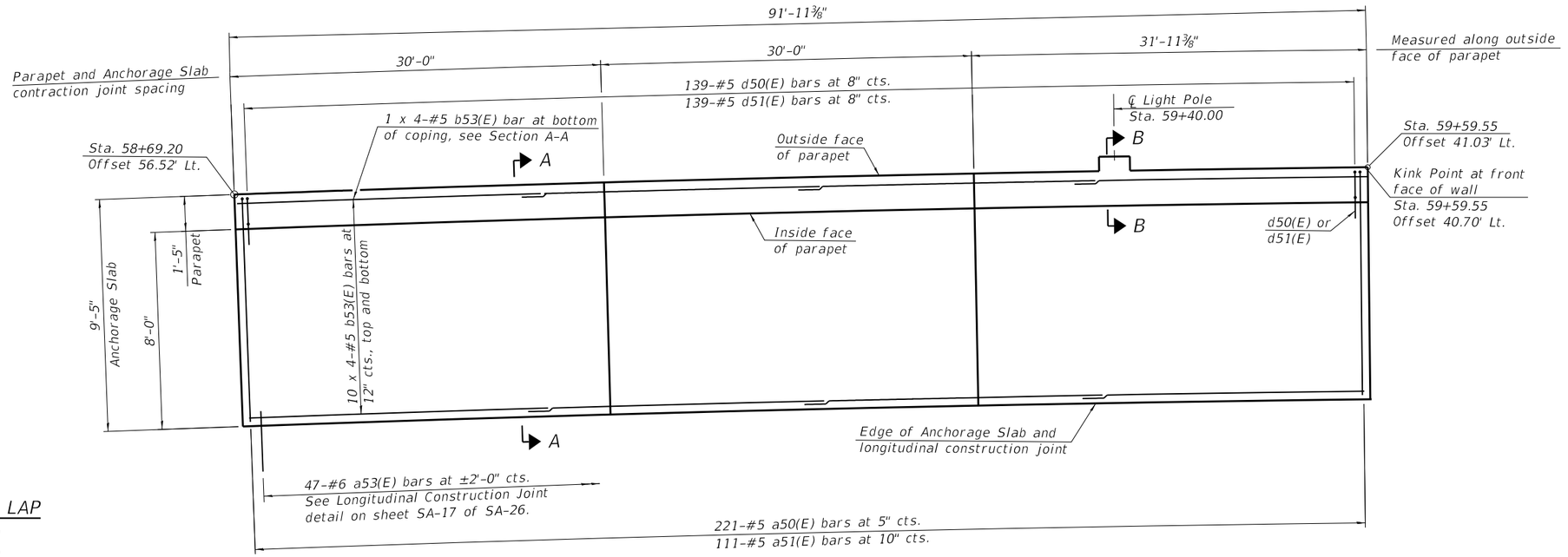
WEST PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION 7
STRUCTURE NO. 058-W003

SHEET NO. SA-12 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	580
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			



INSIDE ELEVATION OF WEST PARAPET AND ANCHORAGE SLAB



MINIMUM BAR LAP

#4 bar = 2'-8"

#5 bar = 3'-7"

WEST PARAPET AND ANCHORAGE SLAB PLAN

Notes:

1. For Section A-A and B-B see sheet SA-16 of SA-26.
2. See sheet SA-16 of SA-26 for Anchorage Slab details, light pole details, parapet joint details, bar bend details and Bill of Material.
3. Portion of Anchorage Slab within the traveled way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
4. For light pole, traffic signal and junction box details, see Electrical Plans.
5. Stations and offsets are measured from ℄ Brush College Road.

design firm no. 184001036
whks engineers + planners + land surveyors

USER NAME = dheberling	DESIGNED - SDS	REVISED
FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED
PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED
PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION & STRUCTURE NO. 058-W003

SHEET NO. SA-13 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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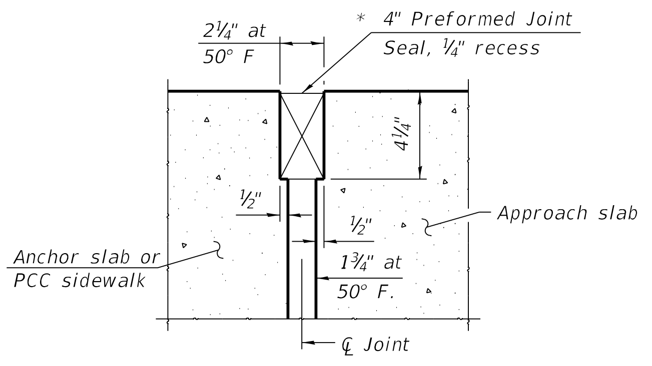
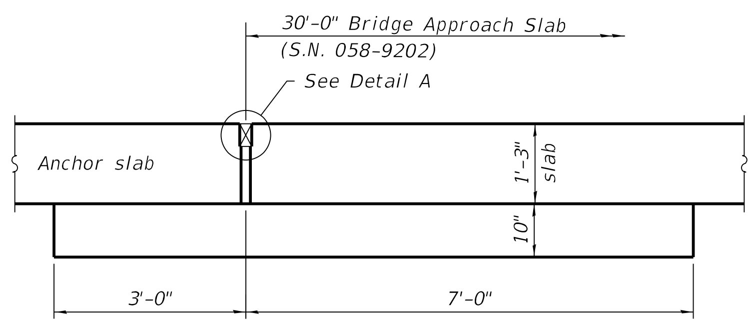
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

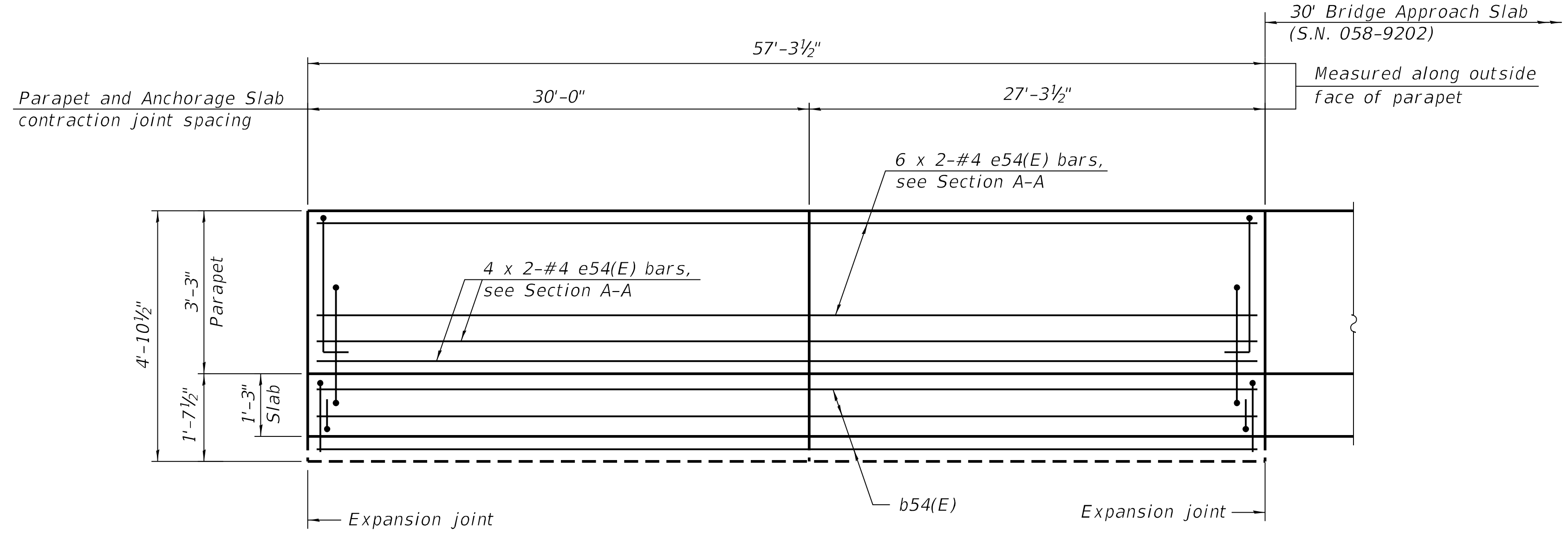


DETAIL A

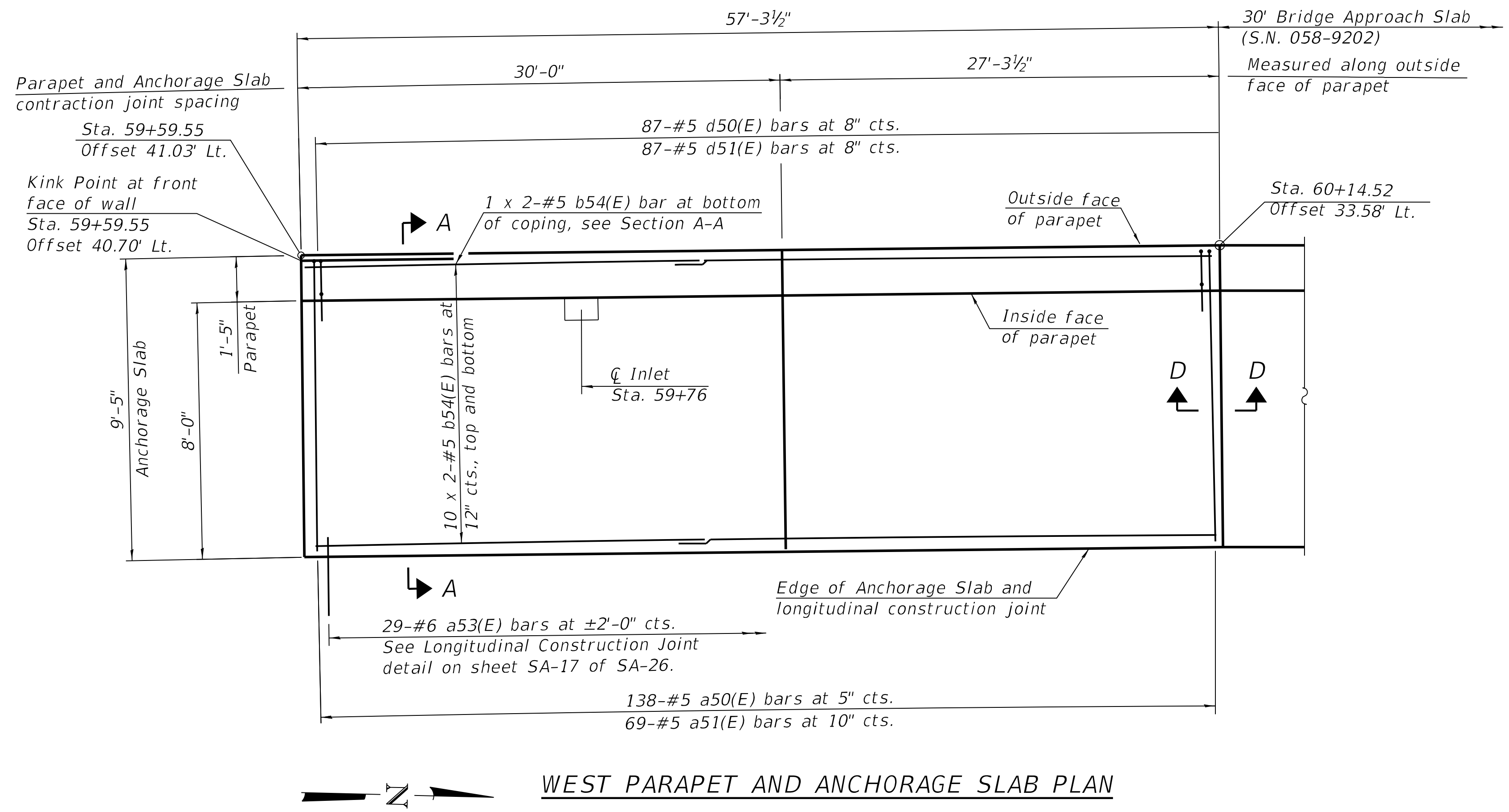
* Cost included with Concrete Superstructure, see Bridge Plans.



SECTION D-D



INSIDE ELEVATION OF WEST PARAPET AND ANCHORAGE SLAB



WEST PARAPET AND ANCHORAGE SLAB PLAN

MINIMUM BAR LAP

#4 bar = 2'-8"
#5 bar = 3'-7"

Notes:

1. For Section A-A see sheet SA-16 of SA-26.
2. See sheet SA-16 of SA-26 for Anchorage Slab details, light pole details, parapet joint details, bar bend details and Bill of Material.
3. Portion of Anchorage Slab within the traveled way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
4. For light pole, traffic signal and junction box details, see Electrical Plans.
5. Stations and offsets are measured from ℄ Brush College Road.

USER NAME = dheberling	DESIGNED - SDS	REVISED	
FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED	
PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED	
PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

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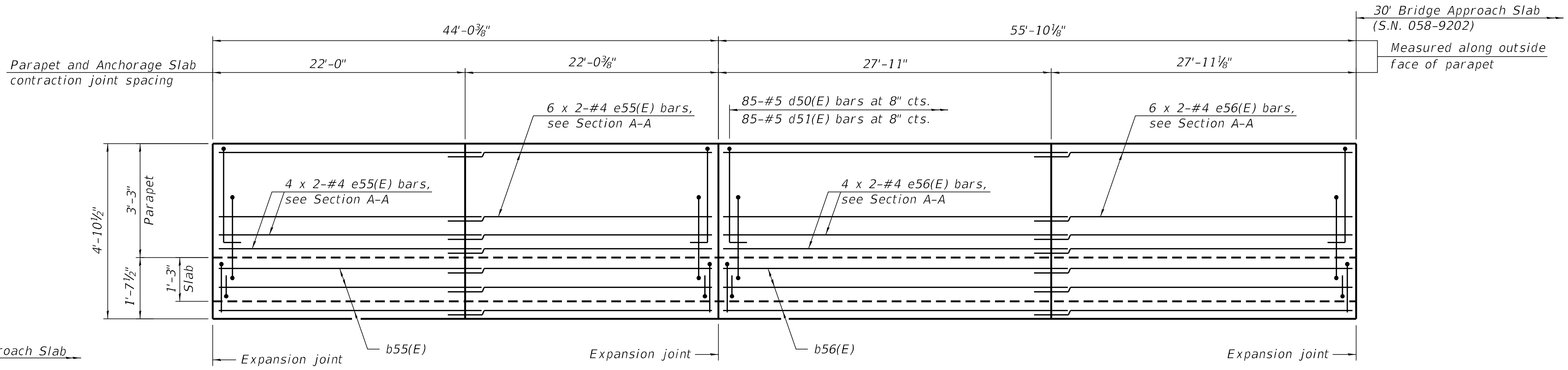
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

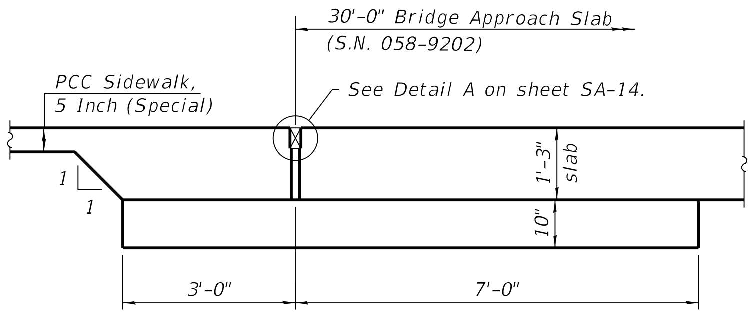
WEST PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION 9
STRUCTURE NO. 058-W003
SHEET NO. SA-14 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	582

CONTRACT NO. 95893
ILLINOIS FED. AID PROJECT



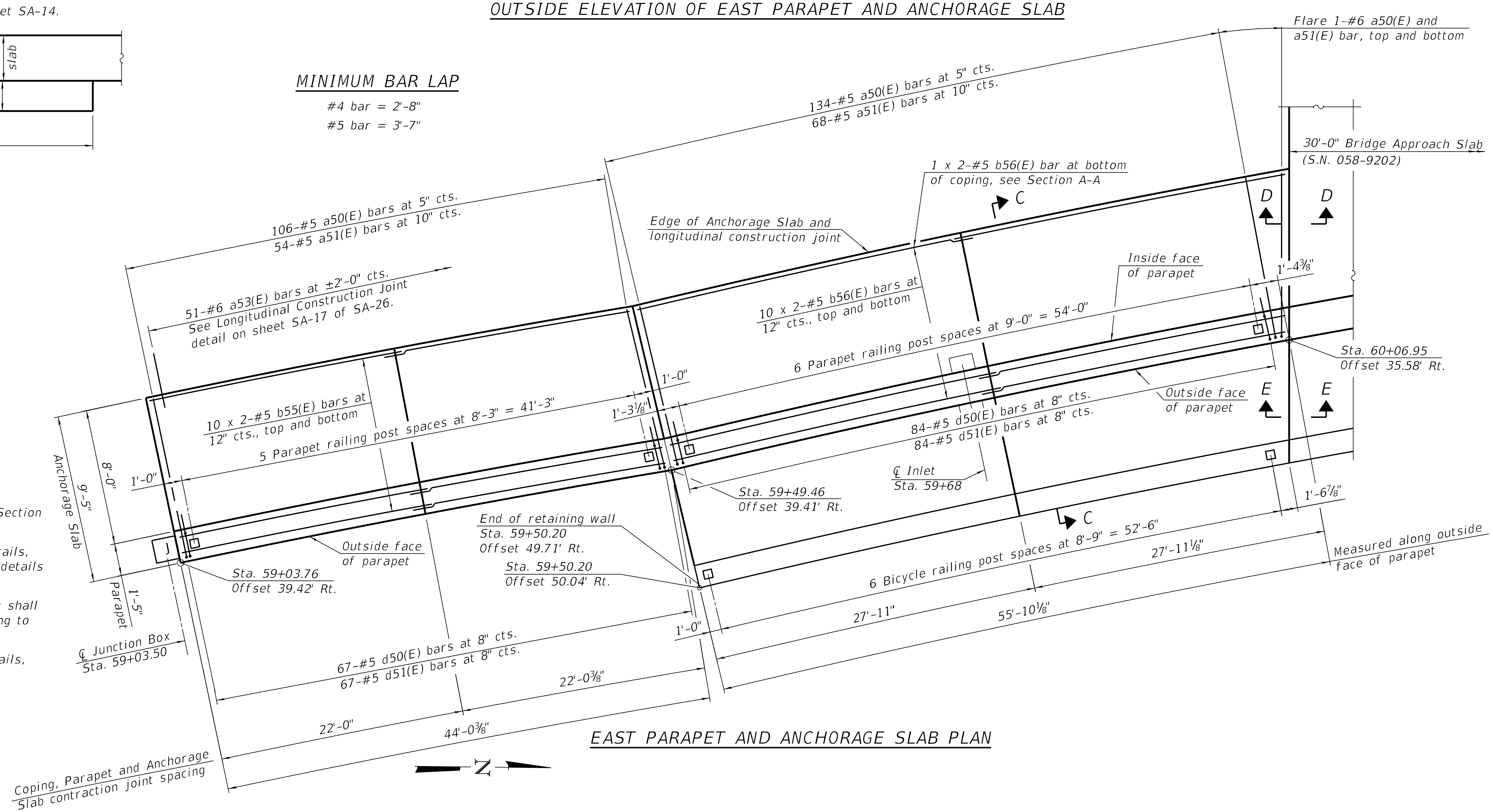
OUTSIDE ELEVATION OF EAST PARAPET AND ANCHORAGE SLAB



SECTION E-E

MINIMUM BAR LAP

#4 bar = 2'-8"
#5 bar = 3'-7"



EAST PARAPET AND ANCHORAGE SLAB PLAN

Notes:

1. For Section C-C see sheet SA-16 of SA-26. For Section D-D, see sheet SA-14 of SA-26.
2. See sheet SA-16 of SA-26 for Anchorage Slab details, light pole details, parapet joint details, bar bend details and Bill of Material.
3. Portion of Anchorage Slab within the traveled way shall be finished to match PPC pavement finish according to Section 420.09 of the Standard Specifications.
4. For light pole, traffic signal and junction box details, see Electrical Plans.
5. Stations and offsets are measured from ℞ Brush College Road.

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PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED	
PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST PARAPET AND ANCHORAGE SLAB PLAN AND ELEVATION
STRUCTURE NO. 058-W003

SHEET NO. SA-15 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	583

CONTRACT NO. 95893

ILLINOIS FED. AID PROJECT

LAST SAVED DATE: $LASTSAVEDDATE$

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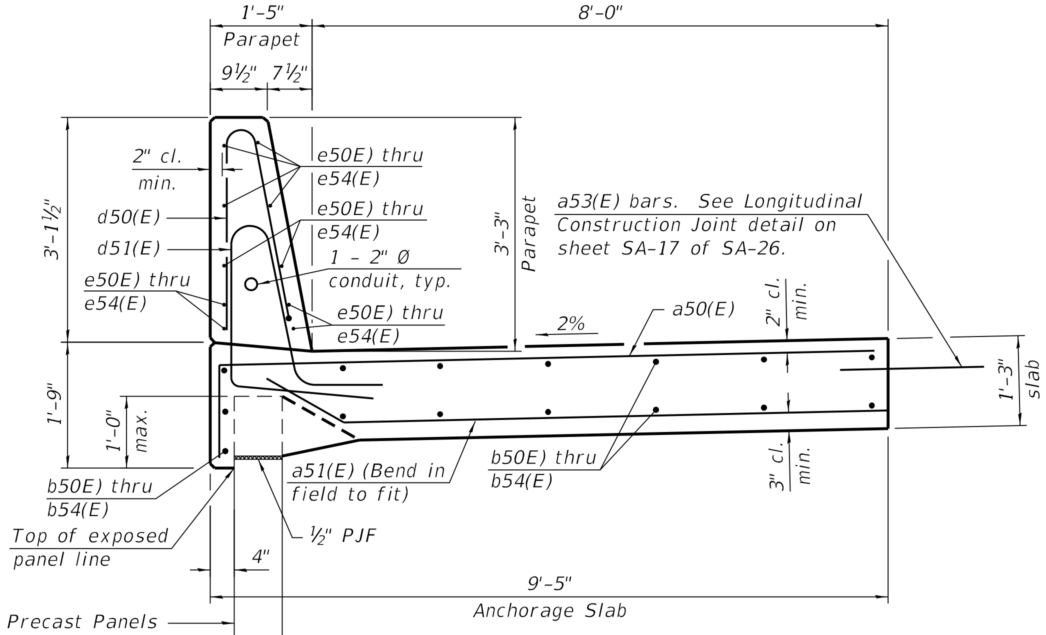
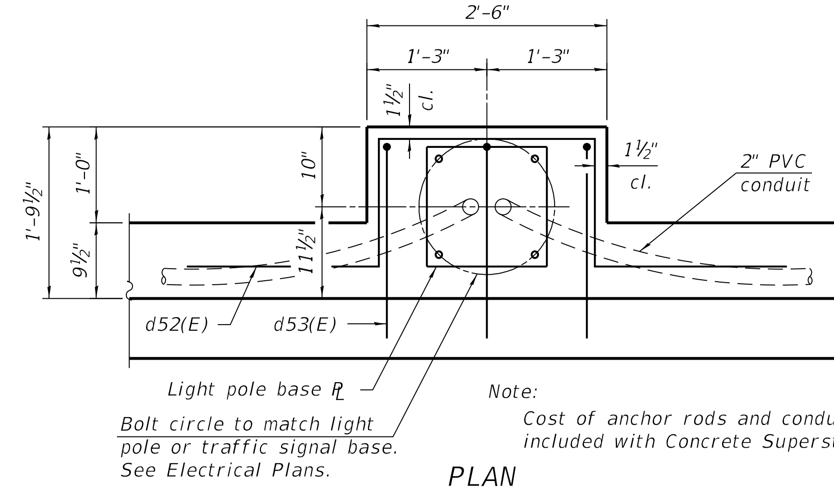


SECTION A-A



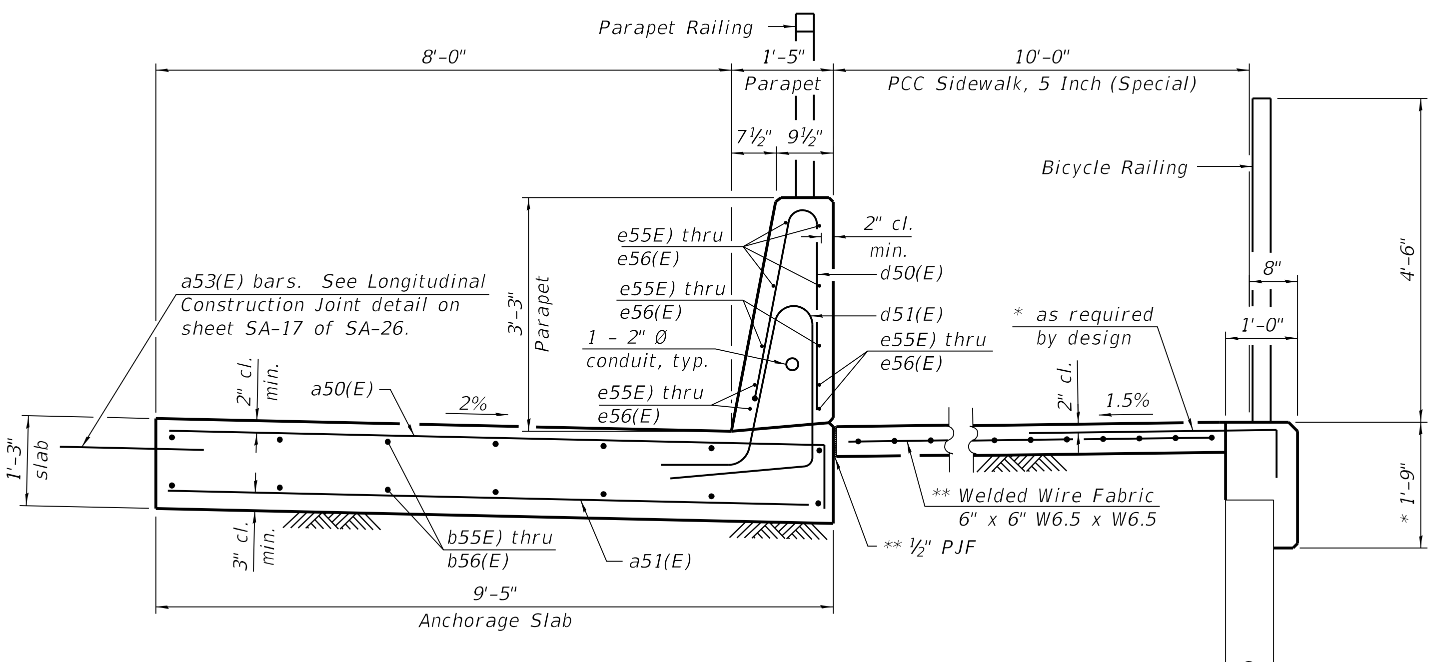
Note:
Cost of anchor rods and conduit is included with Concrete Superstructure.

PLAN

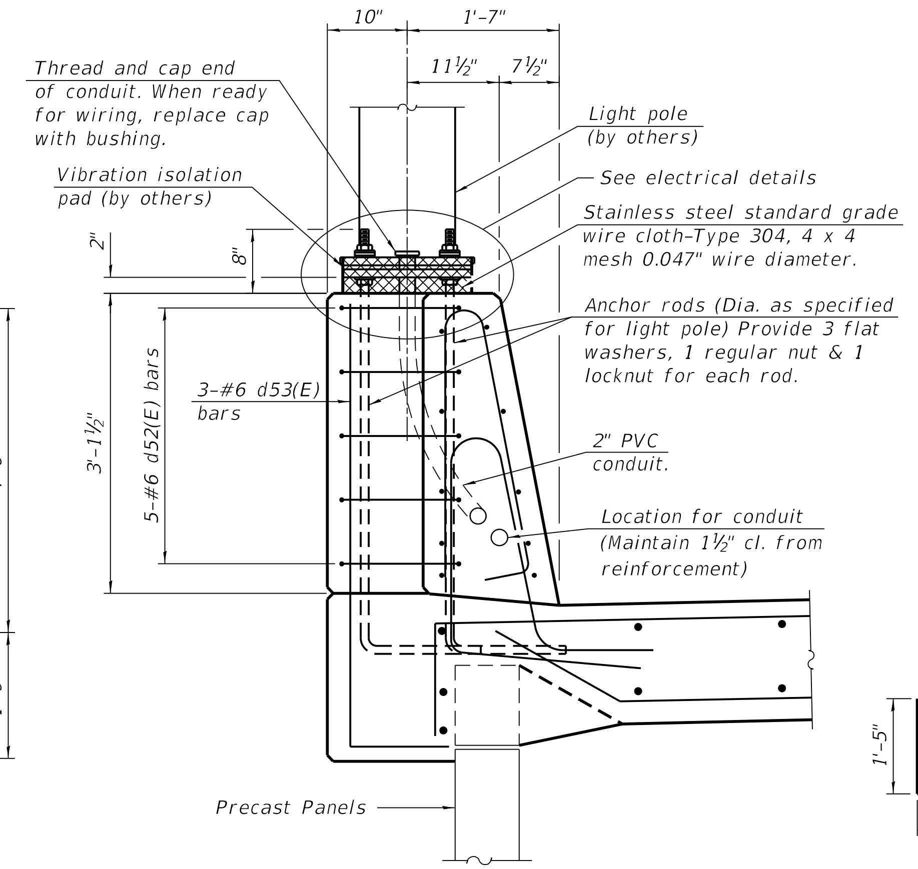
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a50(E)	2,180	#5	10'-7"	⌐
a51(E)	1,100	#5	9'-3"	—
a52(E)	64	#5	1'-6"	—
a53(E)	463	#6	2'-0"	—
b50(E)	11	#5	33'-9"	—
b51(E)	264	#5	25'-2"	—
b52(E)	33	#5	30'-6"	—
b53(E)	44	#5	25'-8"	—
b54(E)	22	#5	30'-4"	—
b55(E)	20	#5	23'-8"	—
b56(E)	20	#5	30'-2"	—
d50(E)	1,373	#5	6'-5"	
d51(E)	1,373	#5	9'-5"	
d52(E)	24	#6	8'-11"	
d53(E)	15	#6	4'-10"	L
e50(E)	20	#4	18'-3"	—
e51(E)	240	#4	24'-6"	—
e52(E)	30	#4	29'-11"	—
e53(E)	40	#4	25'-0"	—
e54(E)	20	#4	29'-11"	—
e55(E)	20	#4	23'-3"	—
e56(E)	20	#4	29'-3"	—
Concrete Superstructure			Cu. Yd.	536.0
Protective Coat			Sq. Yd.	1,221
Reinforcement Bars, Epoxy Coated			Pound	76,840
Portland Cement Concrete Sidewalk, 5 inch (Special)			Sq. Ft.	532

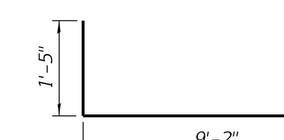
Bars indicated thus 6 x 3-#8 etc. indicates 6 line of bars with 3 lengths per line.



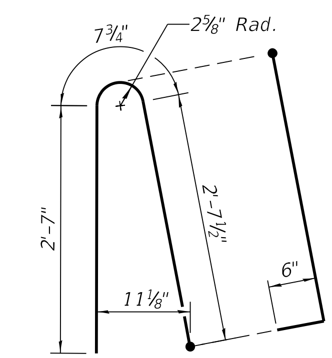
SECTION C-C



SECTION B-B
(6 Locations)



BAR a50(E)

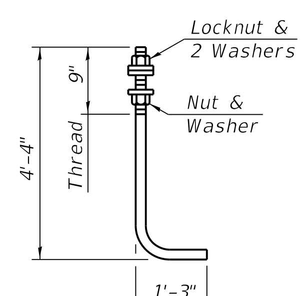


BAR d50(E)

* The Precast Modular Wall supplier's design of the coping and attachment to the wall facing shall account for the following service loads applied at the base of the Bicycle Rail posts. Horizontal sliding force of 0.7 kips and overturning moment of 3.1 kip-ft. Cost of concrete and reinforcement for coping under the Bicycle Railing is included with Precast Modular Retaining Wall.

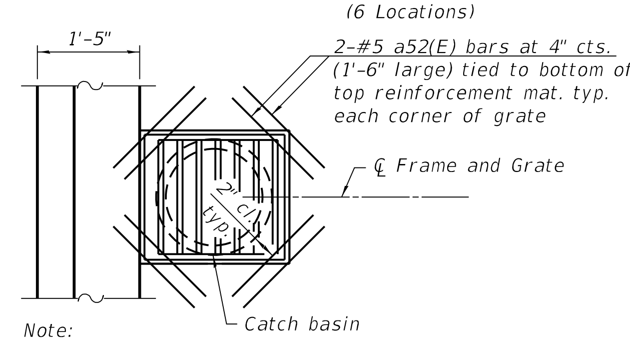
** Cost of Welded Wire Fabric and PJF is included with Portland Cement Concrete Sidewalk, 5 Inch (Special).

Note:
The Precast Modular Retaining Wall supplier's internal stability design shall account for the sidewalk's bearing pressure surcharge of 0.16 ksf in addition to any loads imposed by the Bicycle Railing.



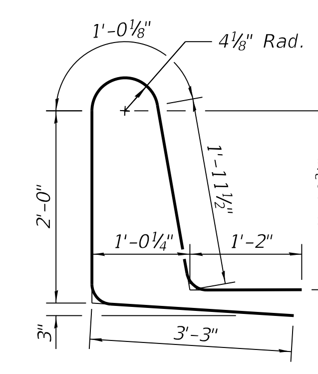
ANCHOR ROD

Diameter as specified for light poles.
(ASTM F 1554 Grade 105)
Full length hot dipped galvanized.

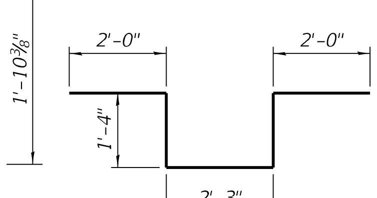


Note:
Cut moment slab reinforcement in field to clear catch basin.

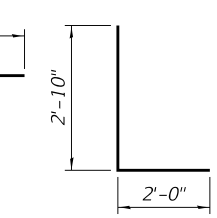
DRAINAGE INLET
(8 locations, see Drainage Plans.)



BAR d51(E)



BAR d52(E)



BAR d53(E)

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FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED	
PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED	
PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

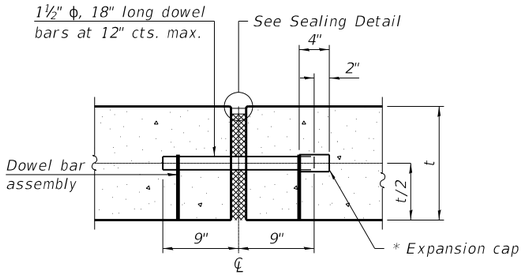
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET AND ANCHORAGE SLAB DETAILS
STRUCTURE NO. 058-W003

SHEET NO. SA-16 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	584
		CONTRACT NO. 95893		
		ILLINOIS FED. AID PROJECT		

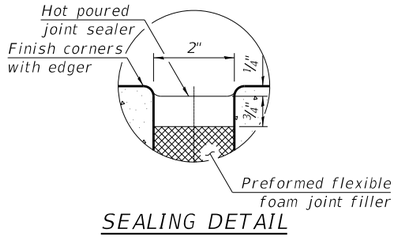
LAST SAVED DATE: $LASTSAVEDDATE$



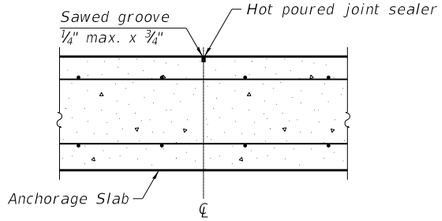
ANCHORAGE SLAB EXPANSION JOINT

Expansion joint and dowel bars included in the cost of Concrete Superstructure

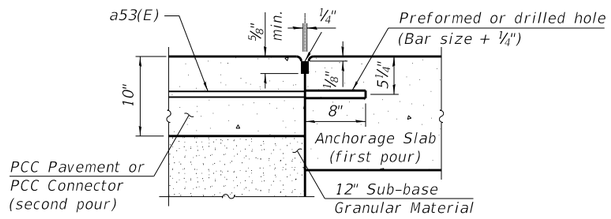
* Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.



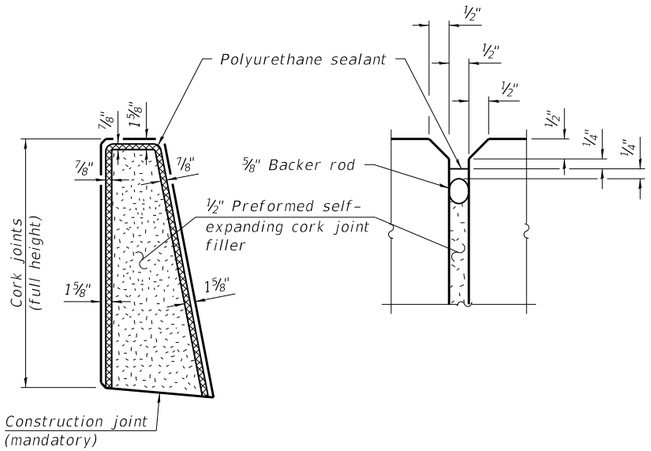
SEALING DETAIL



TRANSVERSE CONTRACTION JOINT



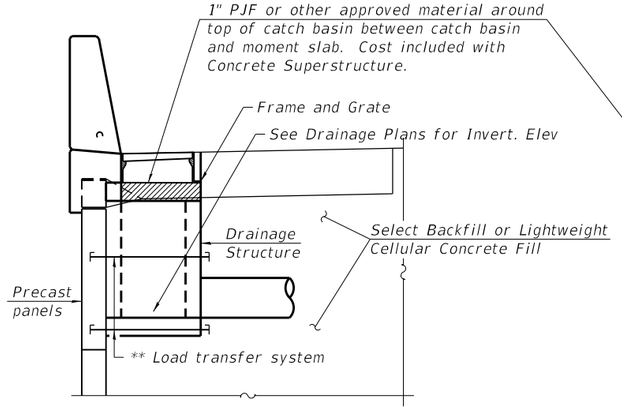
LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR



PARAPET EXPANSION JOINT DETAILS

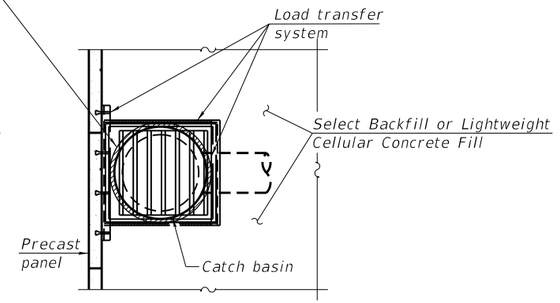
Note:

The polyurethane sealant shall be according to Article 1050.04 of the Standard Specifications and the color shall be gray.

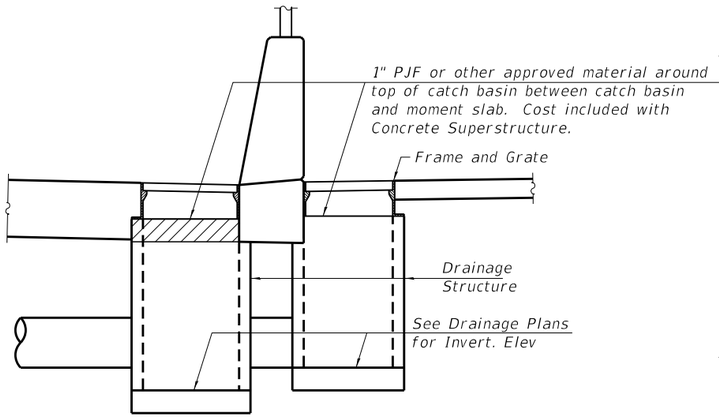


ANCHORAGE SLAB INLET SECTION

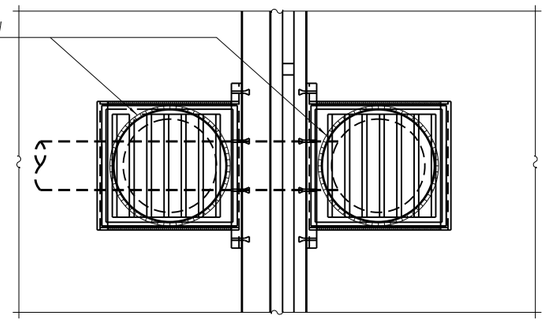
** Precast Modular Retaining Wall supplier to design load transfer system to accommodate concrete pipe and drainage structure.



ANCHORAGE SLAB INLET SECTION



ANCHORAGE SLAB/SIDEWALK INLET SECTION



ANCHORAGE SLAB/SIDEWALK INLET

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design firm no. 184001036	USER NAME = dheberling	DESIGNED - SDS	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
whks engineers + planners + land surveyors	FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED	PARAPET JOINT AND DETAILS STRUCTURE NO. 058-W003
	PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED	SHEET NO. SA-17 OF SA-26 SHEETS
	PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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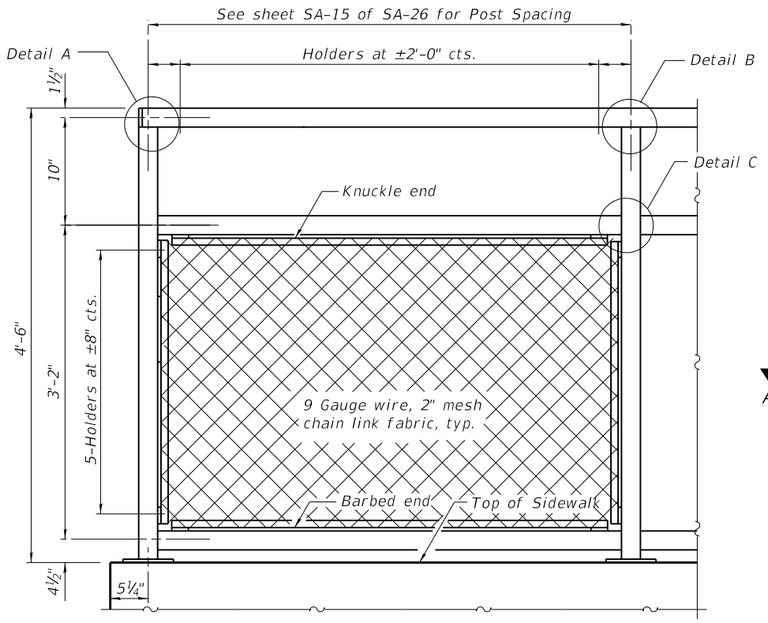
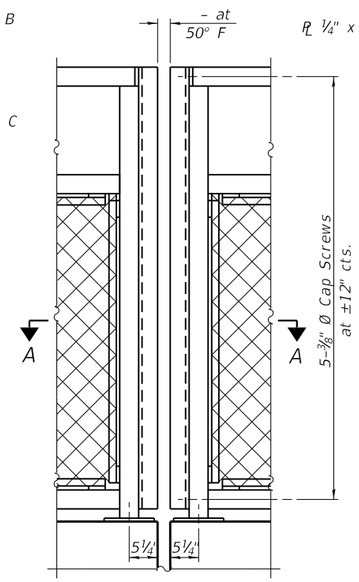
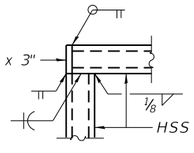
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			



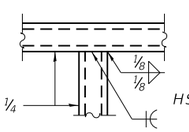
BICYCLE RAILING



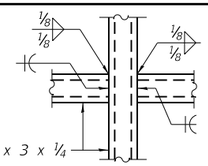
BICYCLE RAILING



DETAIL A

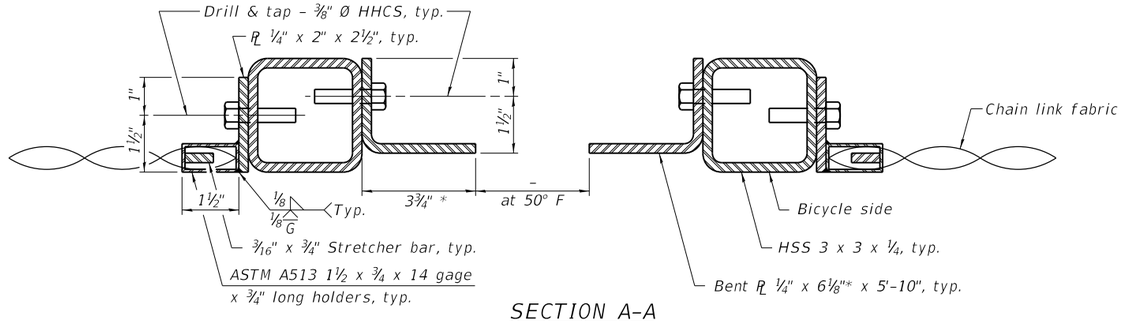


DETAIL B



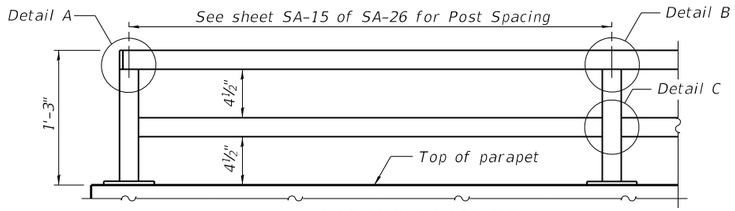
DETAIL C

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

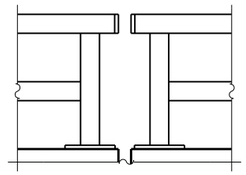


SECTION A-A

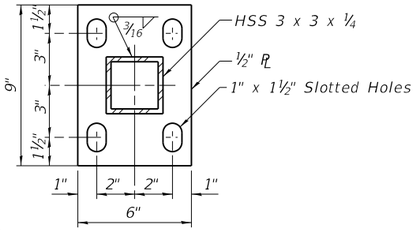
* Assume ⅜" radius. Dimensions may need to be modified for larger joints to avoid gaps greater than 6".



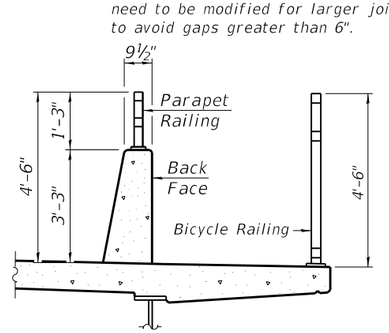
PARAPET RAILING
ELEVATION
(Inside Face of Two Element Rail)



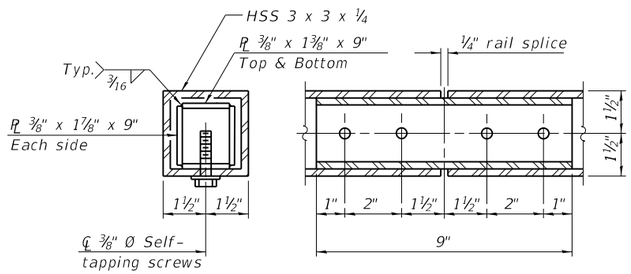
PARAPET RAILING
ELEVATION AT EXPANSION JOINT



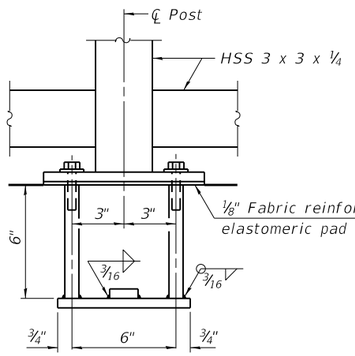
SECTION B-B

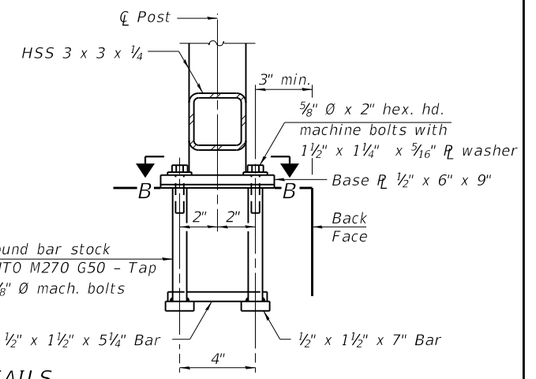


SECTION THRU DECK



RAIL SPLICE





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

RAILING CRITERIA

NCHRP 350 Test Level	4
Railing Weight (plf)	25
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

R-29 10-12-2021

Notes:
Place reinforcement bars to miss anchor rod locations.
CVN testing is not required for the HSS tubing used in the Bicycle Railing.
All HSS tubing used for the Parapet Railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	55
Parapet Railing	Foot	100

design firm no. 184001036
whks engineers + planners + land surveyors

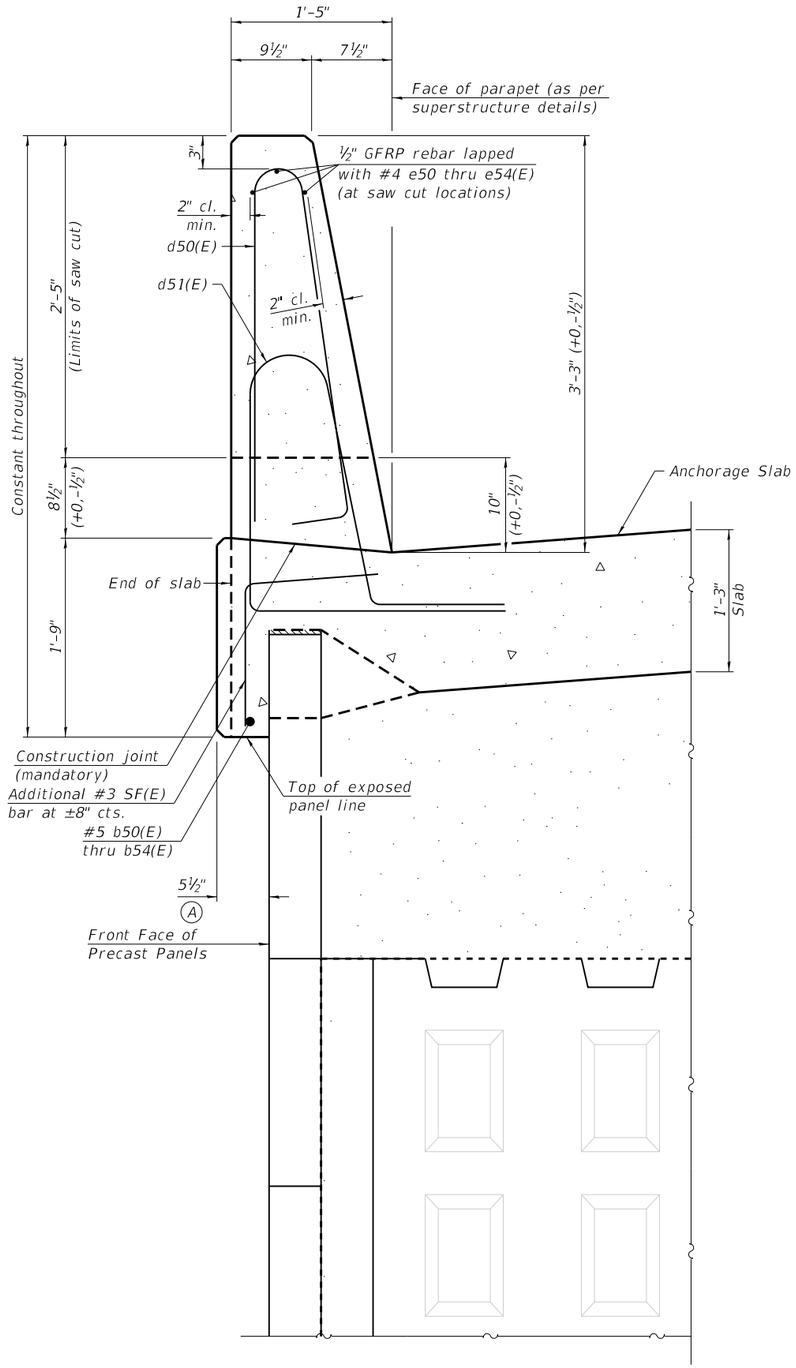
USER NAME = dheberling	DESIGNED - SDS	REVISED	
FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED	
PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED	
PLOT DATE = 10/22/2021	CHECKED - SDS	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING
STRUCTURE NO. 058-W003
SHEET NO. SA-18 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	586
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

LAST SAVED DATE: $LASTSAVEDDATE$



39" CONSTANT-SLOPE PARAPET SECTION

(Showing dimensions, d50(E), d51(E) and ½" Ø GFRP rebar)
(Showing reinforcement clearances for slip forming and additional reinforcement)

GENERAL NOTES

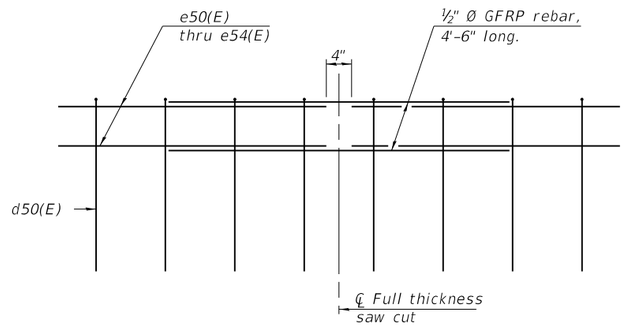
All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.01 cu. yds./ft.

Place full depth aluminum sheets as shown on superstructure details.

Replace all cork joint filler locations with a full thickness saw cut.

Slipforming of parapets along the east anchorage slab is not allowed.

#3 SF(E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

FILE NAME: c:\pwworking\jvecom_da16_na\nes\315528\d0441005960\60603202_SN058W003.dgn

design firm no. 184001036

whks engineers + planners + land surveyors

USER NAME = dheberling	DESIGNED - SDS	REVISED	
FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED	
PLOT SCALE = 0.167 '/ in.	DRAWN - DLH	REVISED	
PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 058-W003
SHEET NO. SA-19 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	587
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		

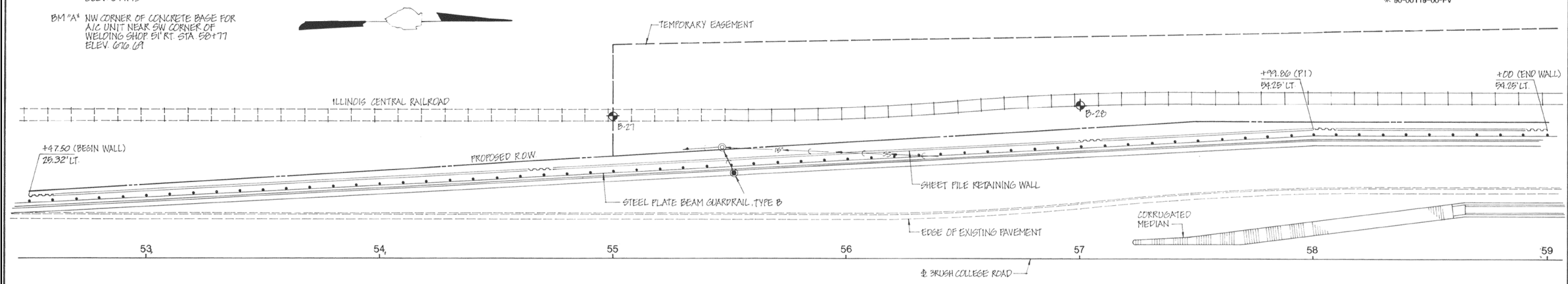
LAST SAVED DATE: S:\ASTA\REVDATES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 7448	*	MACON	94	57
FED. ROAD DIST. NO	ILLINOIS	PROJECT		

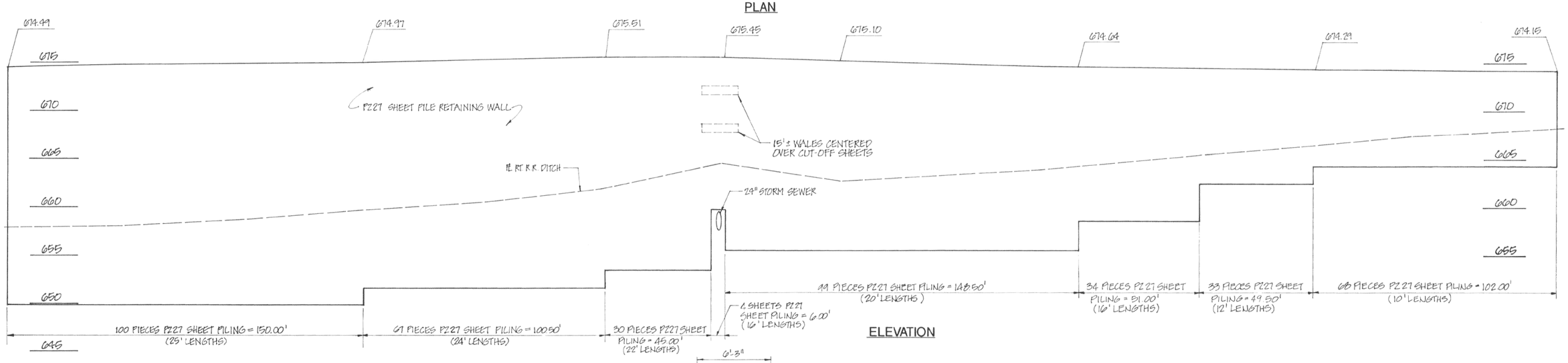
* 90-00119-00-PV

B.M. "X" CHISELED "□" AT BASE OF FENCE POST AT SW CORNER OF ILLINOIS POWER SUBSTATION. 32' RT. STA. 52+60 ELEV. 674.75

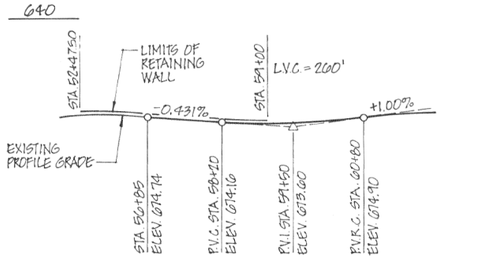
B.M. "A" NW CORNER OF CONCRETE BASE FOR A/C UNIT NEAR SW CORNER OF WELDING SHOP 51' RT. STA. 58+77 ELEV. 676.69



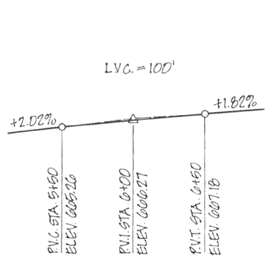
PLAN



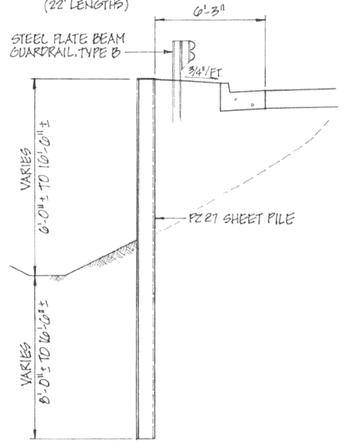
ELEVATION



PROFILE GRADE
BRUSH COLLEGE ROAD



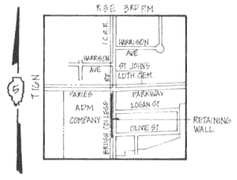
PROFILE GRADE
I.C. RAILROAD



TYPICAL CROSS SECTION

DESIGN SPECIFICATIONS
1989 AASHTO, 1990 AND 1991 INTERIMS

DESIGN STRESSES
fs = 32,000 PSI (GR 50)



LOCATION SKETCH

FOR INFORMATION ONLY

STEEL SHEET PILE RETAINING WALL

BRUSH COLLEGE ROAD

F.A.U. 7448 (CH-1) SEC. 90-00119-00-PV

MACON COUNTY

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
DECATUR, ILLINOIS

REVISIONS		
No.	DATE	INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

DRAWN BY DATE: R.King 1-22
CHECKED BY DATE:
BOOK NUMBER:
PROJECT NO.: 3570-9
SHEET NO.:

FILE NAME: c:\pwworking\jacom_d616_na\ned135228\d0410069\60603202_SN058W003.dgn

design firm no. 184001036
whks engineers + planners + land surveyors

USER NAME = dheberling	DESIGNED - SDS		REVISED
FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH		REVISED
PLOT SCALE = 0.167 ' / in.	DRAWN - DLH		REVISED
PLOT DATE = 4/29/2021	CHECKED - SDS		REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SHEET PILE RETAINING WALL
STRUCTURE NO. 058-W003
SHEET NO. SA-20 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	588
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

LAST SAVED DATE: $LASTSAVEDDATE$

SKS ENGINEERS, LLC — SOIL BORING LOG (B-9)

2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

Page 1 of 1
Project #: 012017
Date 08/16/11

ROUTE ______ DESCRIPTION BRUSH COLLEGE RD BRIDGE (SKS #012017) LOGGED BY EK, RC

SECTION ______ LOCATION DECATUR, IL

COUNTY MACON STRUCTURE NO. ______ (Exist) ______ (Prop.) ______

BORING NO. B-9 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station 52+28.27
Offset 37.19' LT.
Ground Surface Elev. 673.5 (ft.)

Surface Water Elev. DRY (ft.)
Groundwater Elev.:
First Encounter 655.5 (ft.)
Upon Completion 357.5 (ft.)
After ____ Hrs. ____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
9 1/4" CONCRETE					
SILTY CLAY LOAM - A-6 Mottled Brown, moist, stiff, low-medium plasticity, trace sand, trace gravel			2 4 5	2.4	26.6
		5	ST-2'		
SILTY CLAY LOAM - A-6 Brown-Gray, moist, stiff, low plasticity, trace sand, trace gravel			4 6 9	2.2	20.7
- silt seam - sand lenses		10	5 9 12	3.0	12.5
- very stiff			7 10 12	3.5	13.2
		15	6 9 16	2.4	13.9
- hard			17 55 5-1"		10.4
(*)free water @ 18.0' - sand lenses END OF BORING @ 21.0 FT.	652.5	20	20 30 30-3"		8.8
		25			
		30			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SKS ENGINEERS, LLC — SOIL BORING LOG (B-10)

2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

Page 1 of 1
Project #: 313516
Date 03/13/13

ROUTE ______ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CH, CM

SECTION ______ LOCATION DECATUR, IL

COUNTY MACON STRUCTURE NO. ______ (Exist) ______ (Prop.) ______

BORING NO. B-10 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 674.992 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.:
First Encounter 18.5' (ft.)
Upon Completion DRY (ft.)
After CI Hrs. 0 (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SILTY CLAY - A-6 Gray-Mottled-Brown, moist, stiff, low plasticity			6 6 8		31.6
CLAY LOAM - A-4 Brown, moist, low plasticity		5		1.5	14.7
SILTY CLAY LOAM - A-4 Brown, moist, very stiff, low plasticity, trace gravel			6 9 10	1.5	15.2
		10	8 10 12	1.8	13.6
			6 11 13	1.3	14.1
		15	6 12 13	2.3	12.5
-hard 13" seam SAND- Brown, fine-coarse (*)free water @ 18.5'			23 38 22-4		
-hard		20	30 27 23	6.6	12.2
SILT - A-4 Gray, moist, hard, low plasticity, trace sand, trace gravel			14 26 21	2.1	14.3
CLAY - A-6 Gray, moist, very stiff, low plasticity, trace sand, trace gravel END OF BORING @ 26.0 FT.	648.992	25	8 11 14	2.5	
		30			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SKS ENGINEERS, LLC — SOIL BORING LOG (B-11)

2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

Page 1 of 1
Project #: 313516
Date 04/05/13

ROUTE ______ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CM, JM

SECTION ______ LOCATION DECATUR, IL

COUNTY MACON STRUCTURE NO. ______ (Exist) ______ (Prop.) ______

BORING NO. B-11 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 674.629 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.:
First Encounter - (ft.)
Upon Completion DRY (ft.)
After CI Hrs. 0 (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
12" CONCRETE					
SLITY CLAY - A-6 Gray-Mottled-Brown, moist, stiff, medium plasticity			3 3 6	1.9	30.7
		5	2 4 5		23.4
SILTY CLAY LOAM - A-4 Brown, moist, low plasticity, little sand, trace gravel				1.3	18.0
-stiff		10	2 5 7	1.2	15.7
-very stiff			6 10 11	2.6	14.6
		15	8 11 15	3.2	13.5
CLAY - A-6 Gray, moist, hard, low plasticity, little sand, trace gravel			21 33 27	12.0	9.8
		20	20 15 21		9.7
			15 18 23		10.5
END OF BORING @ 26.0 FT.	648.629	25	15 19 22	7.1	10.5
		30			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

FILE NAME: c:\pwworking\aecom_ds16_na\heis15528\d0440069\60603202_SN058W003.dgn

design firm no. 184001036 whks engineers • planners • land surveyors	USER NAME = dheberling	DESIGNED - SDS	REVISED
	FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED
	PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED
	PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORINGS
STRUCTURE NO. 058-W003

SHEET NO. SA-21 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	589

CONTRACT NO. 95893

ILLINOIS FED. AID PROJECT

SHS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 1 of 1
Project #: 313516
Date 03/12/13

ROUTE ______ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CH, CM

SECTION ______ LOCATION DECATUR, IL

COUNTY MACON STRUCTURE NO. ______ (Exist) ______ (Prop.) ______

BORING NO. B-13 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 674.506 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 19.5' (ft.)
Upon Completion 14.4' (ft.)
After CI Hrs. 0 (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
15" CONCRETE					
SAND - A-1-a Brown, moist, medium dense-dense, fine-coarse			12 17 13		
CRUSHED LIMESTONE- A-1		5	4 4 4		9.7
SILTY CLAY LOAM - A-4 Gray-Mottled-Brown, moist, stiff, low plasticity, little sand, trace gravel			5 6 7	1.0	17.6
		10	5 5 17		17.6
SILTY CLAY LOAM - A-4 Gray-Mottled-Brown, moist, stiff, low plasticity, little sand, trace gravel				2.3	12.5
SILTY CLAY LOAM - A-4 Brown, moist, very stiff, low plasticity, trace sand, trace gravel		15	9 13 14	5.3	13.2
-hard			20 24 33		10.4
(*)free water @ 19.5' sand lens		20	26 60		42.2
CLAY - A-6 Gray, moist, hard, low plasticity, trace sand, trace gravel			33 30 30-5	6.8	10.2
		25	17 23 32	12.9	11.5
END OF BORING @ 26.0 FT.	648.506				
		30			

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SHS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 1 of 1
Project #: 313516
Date 03/14/13

ROUTE ______ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CM

SECTION ______ LOCATION DECATUR, IL

COUNTY MACON STRUCTURE NO. ______ (Exist) ______ (Prop.) ______

BORING NO. B-14 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 673.609 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 19.5' (ft.)
Upon Completion 11.6' (ft.)
After CI Hrs. 0 (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
18" CONCRETE					
SILTY CLAY - A-6 Dark Brown, moist, stiff, low plasticity, little sand			6 4 5		9.6
		5	2 3 7		24.8
SILTY CLAY LOAM - A-4 Gray-Mottled-Brown, moist, stiff, low plasticity, little sand, trace gravel			3 4 5	1.7	16.2
SILTY CLAY LOAM - A-4 Brown, moist, firm-stiff, low plasticity, trace sand, trace gravel		10	2 3 5	1.7	16.9
-very stiff			4 8 10	1.0	15.9
SILTY CLAY LOAM - A-6 Brown, moist, low plasticity, trace sand, trace gravel		15		2.2	13.0
-hard			8 14 24		14.2
(*)free water @ 19.5'		20	15 31 29		10.8
			11 17 21	2.1	11.6
CLAY - A-6 Gray, moist, very stiff, low plasticity, trace sand, trace gravel	647.609	25	8 13 16	3.0	12.6
END OF BORING @ 26.0 FT.					
		30			

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 1 of 2
Project #: 313516
Date 04/01/13

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CM
SECTION _____ LOCATION DECATUR, IL
COUNTY MACON STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-15 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 673.881 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 19.5' (ft.)
Upon Completion - (ft.)
After - Hrs. - (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
12" CONCRETE					
SILTY CLAY - A-6 Gray-Mottled-Brown, moist, stiff, low plasticity			4 7 8		26.4
		5	5 6 8		22.9
SANDY LOAM - A-2-6 Dark Brown, moist, very loose, fine-coarse, little sand, trace gravel			1 2 2		17.0
		10	2 5 7	1.9	13.9
SILTY CLAY LOAM - A-4 Brown, moist, stiff, low plasticity, little sand -very stiff			6 8 11	3.2	13.2
		15	19 12 14	3.7	12.5
SILTY CLAY LOAM - A-6 Gray, moist, very stiff, low plasticity, little sand, trace gravel			8 11 11	3.2	12.5
		20	12 22 12		
SAND - A-1-b Brown, saturated, dense, fine-medium (*)free water @ 19.5'			6 22 29		
SANDY LOAM - A-2-6 Brown, wet, very dense, fine-coarse, trace gravel		25	6 32 30		
SAND - A-1-a Gray, wet, very dense, fine-coarse			13 35 25-3		10.4
CLAY - A-6 Gray, moist, hard, low plasticity, little sand, trace gravel		30	34 60-2		
SANDY LOAM - A-2-6 Gray, moist, very dense, fine-coarse, with gravel					
CLAY - A-6 Gray, moist, hard, low plasticity, little sand, trace gravel		35	5 11 28		10.2
		40	19 38 22-3		11.0
		45	21 32 28-4	8.0	10.5
SAND - A-1-a Gray, dry, very dense, fine-coarse		50	32 50 10.1		
-dense		55	13 20 18		
-medium dense		60	5 8 12		
		65	10 12 9		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 2 of 2
Project #: 313516
Date 04/01/13

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY CM
SECTION _____ LOCATION DECATUR, IL
COUNTY MACON STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-15 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station By URS
Offset By URS
Ground Surface Elev. 673.881 (ft.)

Surface Water Elev. - (ft.)
Groundwater Elev.
First Encounter 19.5' (ft.)
Upon Completion - (ft.)
After - Hrs. - (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
CLAY - A-6 Gray, moist, hard, low plasticity, little sand trace gravel END OF BORING @ 71.0 FT.	602.881	70	15 16 25	1.7	18.7
		75			
		80			
		85			
		90			
		95			
		100			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

design firm no. 184001036	USER NAME = dheberling	DESIGNED - SDS	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORINGS STRUCTURE NO. 058–W003
whks engineers + planners + land surveyors	FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED		SHEET NO. SA-23 OF SA-26 SHEETS
	PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED		
	PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	591
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

LAST SAVED DATE: S:\ASTS\REVDATES

SKS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 1 of 1
Project #: 916780
Date 2/20/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY GC
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-22 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station _____
Offset _____
Ground Surface Elev. 674.665 (ft.)

Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter 665.17 (ft.)
Upon Completion 663.47 (ft.)
After _____ Hrs. _____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
7" ASPHALT			3		
CLAY A-6 Mottled Brown, very moist, stiff, medium plasticity, trace sand			6 6		26.0
-firm		5	3 2 3	.45	32.4
-Shelby Tube					
CLAY LOAM A-6 Brown, very moist, very stiff, low plasticity, with sand trace gravel		10	5 9 10	0.58	17.9
			5 8 10	.78	14.8
		15	5 8 13	.65	14.9
			8 14 25	4.53	12.0
CLAY LOAM A-6 Brownish Gray, moist, hard, low plasticity, with sand trace gravel		20	17 55 5-1	3.7	12.2
SANDY CLAY LOAM A-2-4 Gray, moist, very dense, fine-coarse, trace gravel			60-6		9.0
		25			
	648.665		60-5		11.3
END OF BORING @ 26.0 FT.					
		30			

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SKS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Page 1 of 1
Project #: 916780
Date 02/12/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY GC/EE
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-23 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

Station _____
Offset _____
Ground Surface Elev. 675.958 (ft.)

Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter 668.46 (ft.)
Upon Completion - (ft.)
After _____ Hrs. _____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
			4 6	1.1	15.9
SILTY CLAY A-4 Brown, very moist, stiff, low plasticity, trace sand			6 2		
SILTY CLAY A-6 Brown, very moist, firm, low plasticity, trace gravel		5	2 3 1	0.6	22.5
SILTY CLAY A-6 Mottled Brown, very moist, soft-firm, low plasticity, trace sand			2 2 2	0.6	26.8
(*)free water @ 7.5'		10	2 3 3	0.4	18.3
CLAY LOAM A-6 Brown, moist, stiff, low plasticity, with sand trace gravel			3 7 4	0.99	12.9
SILT A-4 Brown, very moist, stiff-very stiff, low plasticity, trace sand		15	6 10	0.95	23.7
CLAY LOAM A-6 Gray, moist, hard, low plasticity, with sand trace gravel		20	60-6 46		13.7
SILT A-4 Gray, very moist, hard, low plasticity, trace sand			60-3 36	0.44	21.5
CLAY LOAM A-6 Gray, moist, hard, low plasticity, with sand trace gravel		25	40 20-2 26	8.66	10.3
	649.958		23 31	6.1	10.7
END OF BORING @ 26.0 FT.					
		30			

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

FILE NAME: c:\pwworking\jacorn_ds16_na\ned13528\d0440089\60603202_SN058W003.dgn

design firm no. 184001036
whks engineers + planners + land surveyors

USER NAME = dheberling	DESIGNED - SDS	REVISED	
FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED	
PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED	
PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORINGS
STRUCTURE NO. 058-W003
SHEET NO. SA-24 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	592
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Project #: 916780
Date 03/2/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY GC/EE
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-24 DRILLING METHOD MUD ROTARY HAMMER TYPE 140# SAFETY HAMMER

Station _____
Offset _____
Ground Surface Elev. 673.694 (ft.)

Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter 666.19 (ft.)
Upon Completion - (ft.)
After ____ Hrs. _____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
14" CONCRETE					
SAND A-1-a Brown, moist, medium dense, fine-medium, trace gravel			11 16 11		
-loose		5	4 4 5		
-very loose-loose (*)free water 7.5'			2 2 2		
-loose		10	4 3 3		
CLAY LOAM A-6 Brown, moist, very stiff, low plasticity, with sand trace gravel			3 12 18	1.24	14.2
		15			
SAND A-1-a Gray, saturated, medium dense, fine-medium, trace silt			4 11 17		
CLAY LOAM A-6 Gray, moist, very stiff, low plasticity, with sand trace gravel		20	7 9 13	3.30	11.5
-hard			8 11 25	5.56	10.1
-begin mud rotary drilling		25	22 60-5		
SAND A-1-a Gray, saturated, very dense, fine-coarse, trace gravel			3 20		11.6
CLAY LOAM A-6 Gray, moist, hard, low plasticity, with sand trace gravel		30	40-5 60-4		

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
		35	13 18 32	2.89	12.1
-stiff-very stiff		40	4 7 9	2.68	13.7
-hard		45	9 48 12-1	7.3	11.2
		50	8 28 32-3		10.3
SAND A-1-a Gray, saturated, very dense, fine-coarse, trace gravel		55	25 27 32		
-dense		60	28 20 24		
-very dense		65	22 30 30-5		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SLS ENGINEERS, LLC
2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

SOIL BORING LOG

Project #: 916780
Date 03/2/20

ROUTE _____ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY GC/EE
SECTION _____ LOCATION DECATUR, ILLINOIS
COUNTY MACON COUNTY STRUCTURE NO. _____ (Exist) _____ (Prop.) _____
BORING NO. B-24 DRILLING METHOD MUD ROTARY HAMMER TYPE 140# SAFETY HAMMER

Station _____
Offset _____
Ground Surface Elev. 673.694 (ft.)

Surface Water Elev. _____ (ft.)
Groundwater Elev.
First Encounter 666.19 (ft.)
Upon Completion - (ft.)
After ____ Hrs. _____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
		70			
-dense		75	60-6 18 20 25		
-very dense		80	38 34 26-5		
		85	20 24 34		
		90	21 25 28		
		95	34 50 10-1		
		100			

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
CLAY LOAM A-6 Gray, moist, hard, low plasticity, with sand trace gravel			60-5		10.3
-no recovery		105			
			60-4		13.9
-no recovery		110			
			60-1		
-no recovery		115			
			60-3		
-no recovery		120			
			60-2		
-no recovery		125			
-Shale begins at 125.5'			60-0		
SHALE Gray, moist, very dense, low plasticity, weathered	543.694	130	60-0		9.7
END OF BORING @ 130.0 FT.					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

design firm no. 184001036
whks engineers + planners + land surveyors

USER NAME = dheberling	DESIGNED - SDS	REVISED	
FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED	
PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED	
PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORINGS
STRUCTURE NO. 058–W003
SHEET NO. SA-25 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	593
		CONTRACT NO. 95893		
	ILLINOIS FED. AID PROJECT			

SKS ENGINEERS, LLC — SOIL BORING LOG

2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

Project #: 916780
Date 3/11/20

ROUTE ______ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY ______

SECTION ______ LOCATION DECATUR, ILLINOIS

COUNTY MACON COUNTY STRUCTURE NO. ______ (Exist) ______ (Prop.) ______

BORING NO. B-25 DRILLING METHOD ______ HAMMER TYPE 140# SAFETY HAMMER

Station ______
Offset ______
Ground Surface Elev. 674.997 (ft.)

Surface Water Elev. ______ (ft.)
Groundwater Elev.
First Encounter 658.00 (ft.)
Upon Completion - (ft.)
After ____ Hrs. ____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
16" CONCRETE					
SILTY CLAY A-6 Brown, very moist, very stiff, low plasticity, trace sand -shelby tube			7 7 12	2.0	28.6
		5			
SAND A-1-a Brown, very moist, loose, fine-medium, trace silt			3 3 5		15.5
CLAY LOAM A-6 Brown, moist, stiff, low plasticity, little sand, trace gravel		10	6 6 8	1.6	14.6
-hard			9 16 35		13.8
		15	10 26 34	4.7	15.2
(*)free water @ 17.0'			4 7 12	1.9	12.7
CLAY LOAM A-6 Gray, moist, very stiff, low plasticity, with sand, trace gravel		20	5 8 12	2.4	10.5
			7 8 16	1.1	14.0
-hard		25	18 24 25	1.4	11.8
-very stiff -2 attempts no recovery			10 12 14		
-begin mud rotary drilling -hard		30	34 60-3		

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
		35	34 60-5		11.5
		40	30 60-6	4.6	10.4
		45	7 18 28		10.5
		50	21 25 35-6		12.9
SAND A-1-a Gray, saturated, very dense, fine-coarse, trace gravel		55	34 40 20-3		
		60	29 33 27-5		
		65	32 40 20-3		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

SKS ENGINEERS, LLC — SOIL BORING LOG

2900 N. Martin Luther King Jr. Dr. Decatur, IL 62526

Project #: 916780
Date 3/11/20

ROUTE ______ DESCRIPTION BRUSH COLLEGE ROAD LOGGED BY ______

SECTION ______ LOCATION DECATUR, ILLINOIS

COUNTY MACON COUNTY STRUCTURE NO. ______ (Exist) ______ (Prop.) ______

BORING NO. B-25 DRILLING METHOD ______ HAMMER TYPE 140# SAFETY HAMMER

Station ______
Offset ______
Ground Surface Elev. 674.997 (ft.)

Surface Water Elev. ______ (ft.)
Groundwater Elev.
First Encounter 658.00 (ft.)
Upon Completion - (ft.)
After ____ Hrs. ____ (ft.)

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
		70	34 60-6		
-dense		75	27 20 23		
		80	33 25 24		
SAND A-3 Gray, saturated, very dense, fine		85	60-6		
		90	60-2		
		95	60-5		
----------------------		100			

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
CLAY LOAM A-6 Gray, moist, hard, low plasticity, with sand, trace gravel			60-5		14.3
		105	60-2		9.4
		110	60-3		14.8
		115	60-2		12.4
SHALE Gray, moist, very dense, weathered		120	60-5		
		125	60-1		
END OF BORING @ 130.0 FT.	544.997	130	60-1		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

design firm no. 184001036 — whks engineers + planners + land surveyors

USER NAME = dheberling	DESIGNED - SDS	REVISED
FILE NAME = 60603202_SN058W003.dgn	CHECKED - CEH	REVISED
PLOT SCALE = 0.167 ' / in.	DRAWN - DLH	REVISED
PLOT DATE = 4/29/2021	CHECKED - SDS	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORINGS
STRUCTURE NO. 058–W003

SHEET NO. SA-26 OF SA-26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	594

CONTRACT NO. 95893

ILLINOIS FED. AID PROJECT

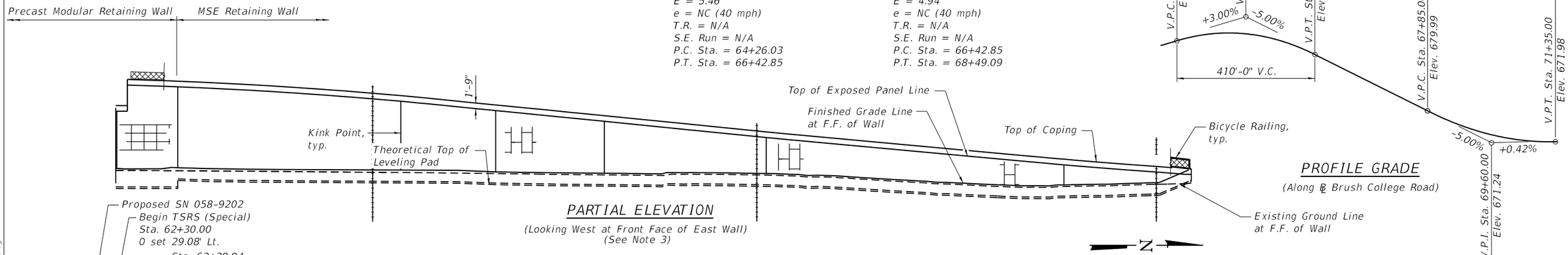
Benchmark: "M" in Mueller on re hydrant at Southeast corner of Cerro Gordo St. and Brush College Rd. – Elev. 652.58
Existing Structure: None. New MSE wall and Precast Modular Wall to be constructed to support the north abutment and approach roadway to proposed SN 058-9202.
Road to be closed during construction and tra c to be detoured.

PROP. CURVE P-BRUSH-5

P.I. Sta. = 65+34.81
Δ = 11°30'09" (RT)
D = 5°18'19"
R = 1,080.00'
T = 108.77'
L = 216.82'
E = 5.46'
e = NC (40 mph)
T.R. = N/A
S.E. Run = N/A
P.C. Sta. = 64+26.03
P.T. Sta. = 66+42.85

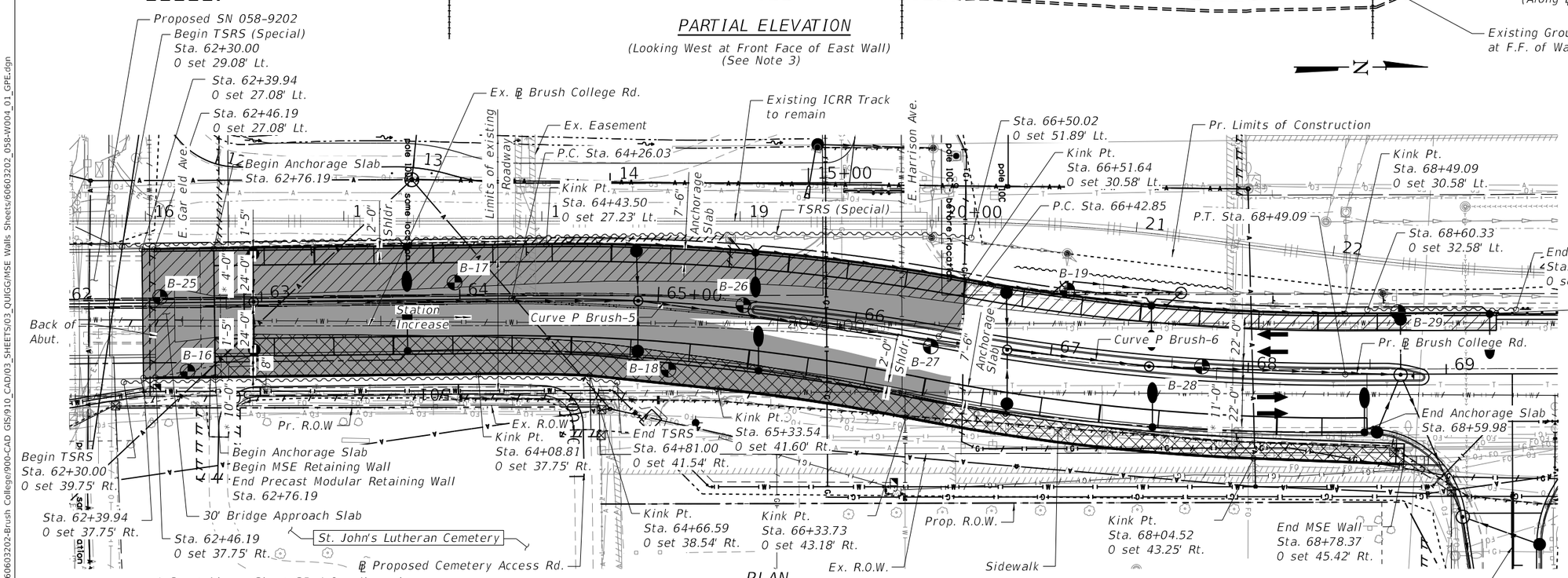
PROP. CURVE P-BRUSH-6

P.I. Sta. = 67+46.28
Δ = 10°56'28" (LT)
D = 5°18'19"
R = 1,080.00'
T = 103.43'
L = 206.24'
E = 4.94'
e = NC (40 mph)
T.R. = N/A
S.E. Run = N/A
P.C. Sta. = 66+42.85
P.T. Sta. = 68+49.09

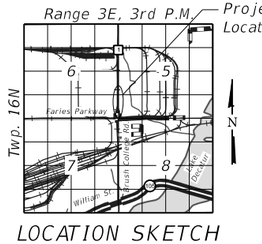


PARTIAL ELEVATION
(Looking West at Front Face of East Wall)
(See Note 3)

PROFILE GRADE
(Along ℄ Brush College Road)



PLAN



LOCATION SKETCH

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Speci cations, 8th Edition

DESIGN STRESSES

FIELD UNITS
f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)

PRECAST UNITS
f'c = 4,500 psi

LEGEND

- Ex. Gas Line
- Ex. Water Line
- Ex. Underground Telephone Line
- Ex. Aerial Line
- Ex. Storm Sewer
- Ex. Sanitary Sewer
- Ex. Easement
- Ex. RR Track
- Ex. Underground Fiber Optic Line
- Approximate Precast Modular Retaining Wall Mass Limits
- Approximate Limits of Reinforced Soil Mass
- Approximate Limits of Lightweight Concrete Cellular Fill
- Abandoned Water Line
- Abandoned Gas Line
- Abandoned Oil Line
- Pr. Buried Lighting Cable
- Pr. Gas Line
- Pr. Water Line
- Pr. Temporary Easement
- Pr. Storm Sewer
- Pr. Above Ground Lighting
- Pr. Drainage Inlet
- Soil Boring Location
- Temporary Soil Retention System (TSRS)
- Water Line Removal

Notes:
1. Wall o sets are measured from ℄ Brush College Rd. to the front face of precast panels.
2. F.F. denotes front face.
3. See Sheet SB-3 for unfolded elevation view and wall details.
4. Existing drainage and utilities in con ict with proposed construction will be abandoned or relocated.
5. For TSRS details see Sheets SB-6 and SB-7.
6. For existing ICRR track pro le, see Sheet SB-2.

"I certify that to the best of knowledge, information, and belief, this structure design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO 'Standard Speci cations for Highway Bridges'."

KEITH W. BENTING
STATE OF ILLINOIS
4777
DECATUR, ILLINOIS
LICENSED STRUCTURAL ENGINEER

Keith W. Benting 10/22/2021
Keith W. Benting, Illinois S.E. 081-004777 Date
Expires 11/30/2022

GENERAL PLAN & ELEVATION
BRUSH COLLEGE ROAD
F.A.U. 7448 – SECTION 09-00933-01-BR
MACON COUNTY
STA. 62+39.94 TO STA. 69+25.33
STRUCTURE NO. 058-W004

QUIGG ENGINEERING INC

USER NAME = zquigg	DESIGNED - KWB	REVISED -	
60603202_058-W004_01_GPE.dgn	CHECKED - KFO	REVISED -	
PLOT SCALE = 60.000 ' / in.	DRAWN - LMC	REVISED -	
PLOT DATE =	CHECKED - MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET SB-1 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	595
		CONTRACT NO. 95893		
		ILLINOIS	FED. AID PROJECT	

MODEL: Sheet
FILE NAME: pw://aecom-na-pw.bentley.com:AECOM_DS16_NA/Documents/60603202-Brush College/900-CAD GIS/910_CAD/03_SHEETS/03_QUIGG/MSE Walls Sheets/60603202_058-W004_01_GPE.dgn

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GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Wall stations and offsets are given to the front face (FF) of the wall and are measured from the Brush College Road baseline, except as noted.
3. Protective Coat shall be applied to the top and interior surfaces of the parapets and the top exposed surface of the Anchorage Slabs and Sidewalk.
4. Slipforming of parapets along east anchorage slab is not allowed.
5. The Contractor shall field verify the location of all underground utilities. The contractor shall take precautions to protect existing underground utilities that are to remain in service during construction of the wall. Any damage to underground utilities will be the responsibility of the Contractor. For locations and elevations of utilities, see Utility Plans.
6. The Contractor may encounter abandoned utilities or drainage structures that obstruct construction of the proposed wall. Removal and disposal of portions of these obstructions shall not be cause for additional payment but shall be included in the cost of "Precast Modular Retaining Wall". For locations and elevations of utilities, see Utility Plans.
7. All Lightweight Cellular Concrete Fill shall be Class II. See Special Provisions.
8. The Contractor shall coordinate the construction of the proposed wall with the construction of the proposed bridge over Faries Parkway (S.N. 058-9202). See Suggested Stages of Construction and Traffic Control Plans and special provisions.
9. For details and quantity of conduits embedded in structure, see Electrical Plans.
10. Fill type retaining walls (MSE and Precast Modular) shall be detailed and constructed to allow for proposed roadway drainage to be placed properly and as shown in the plans. Any requests for modification to drainage structure locations to accommodate wall reinforcing or details shall be submitted to the engineer in writing for review. Any changes approved by the engineer in writing will be coordinated by the contractor at no additional cost.

INDEX OF SHEETS

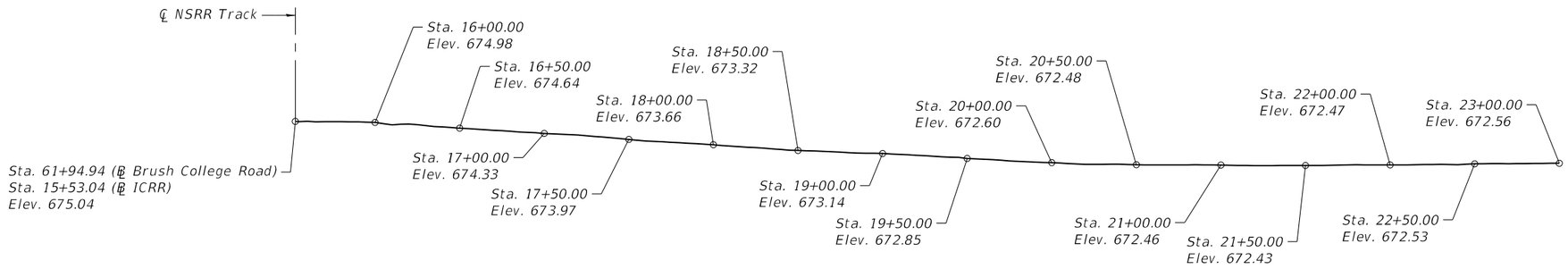
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	3,971
Concrete Structures	Cu. Yd.	424.8
Concrete Superstructure	Cu. Yd.	679.1
Protective Coat	Sq. Yd.	2,301
Reinforcement Bars, Epoxy Coated	Pound	111,340
Bicycle Railing	Foot	603
Parapet Railing	Foot	584
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	1,243
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	10,612
Precast Modular Retaining Wall	Sq. Ft.	16,346
Lightweight Cellular Concrete Fill	Cu. Yd.	21,687
Temporary Soil Retention System (Special)	Sq. Ft.	4,046
Portland Cement Concrete Sidewalk 5 inch, Special	Sq. Ft.	5,900
Pipe Underdrains for Structures, 4"	Foot	690

STATION 62+39.94 TO 69+25.33
BUILT BY
CITY OF DECATUR
F.A.U. 7448
SEC. 09-00933-01-BR
STR. NO. 058-W004

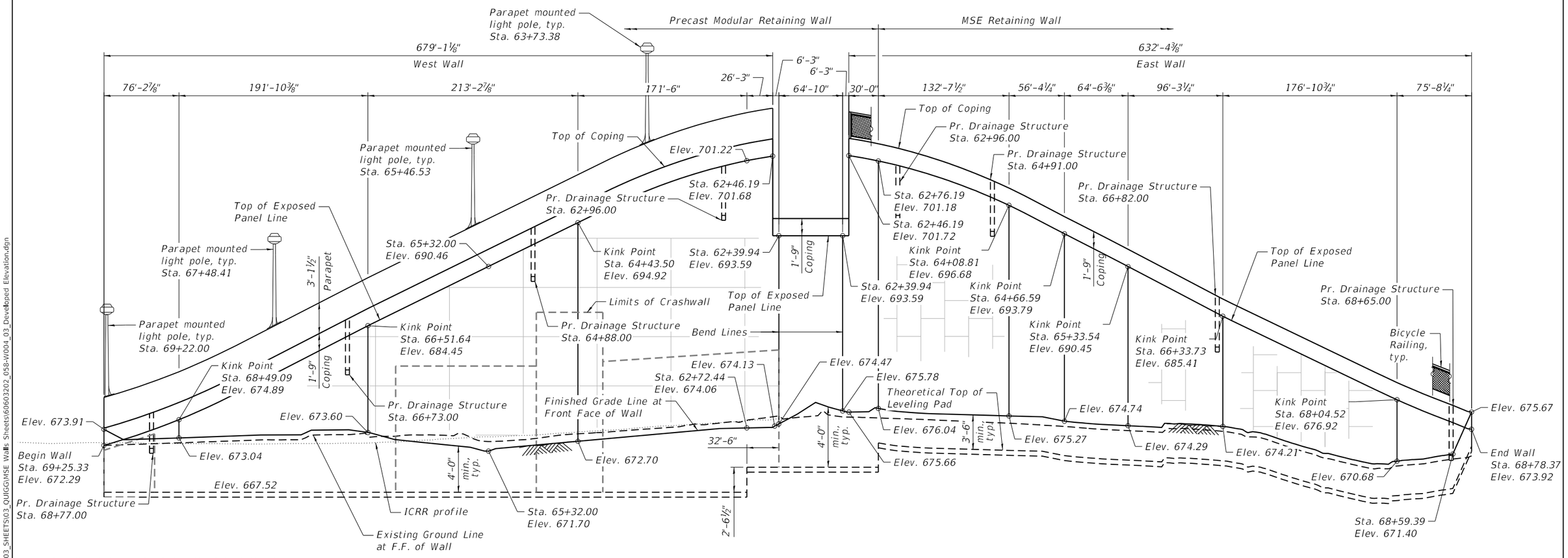
NAME PLATE

See Std. 515001



TOP OF RAIL - ICRR TRACK

(Looking West)



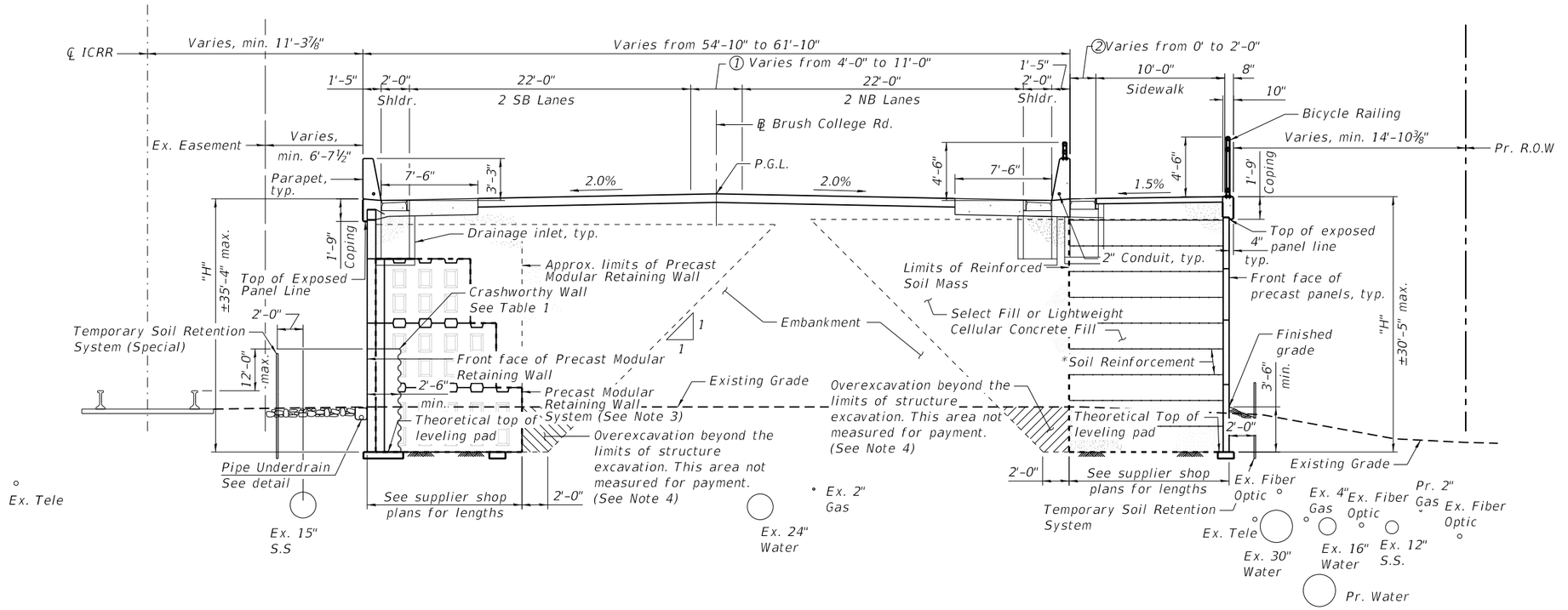
ALLOWABLE BEARING PRESSURE

Location	Station	Static Limit State: Allowable Bearing q_a (psf)
Abut	62+39.94	3,187
West	64+62.89	2,673
West	66+52.64	2,673
West	66+52.64	2,673
West	68+30.22	2,673
East	63+91.53	3,187
East	65+47.29	2,673
East	66+14.23	2,673
East	66+50.00	2,673
East	66+50.00	2,673
East	67+94.90	2,673

UNFOLDED ELEVATION

(Looking at Front Face of Wall)

Note:
All measurements are along the F.F. of wall.



TYPICAL ROADWAY SECTION THROUGH RETAINING WALLS

(Looking North)

Notes:

1. See Sheet SB-5 of SB-35 for section through east wall beyond station 68+59.98.
2. Retaining wall shall be Crashworthy per 2020 Manual for Railway Engineering from a min. of 7'-0" above top of rail down to top of leveling pad for wall within 25' of the ℄ existing rail from Sta. 62+39.94 Lt. to Sta. 69+25.33 Lt., see cross sections. Cost of crashworthy concrete mass paid for as Concrete Structures.
3. The wall supplier's interval stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.67 kips/ft. of wall.
4. Backfill overexcavation with same material as used for select fill or lightweight cellular fill.

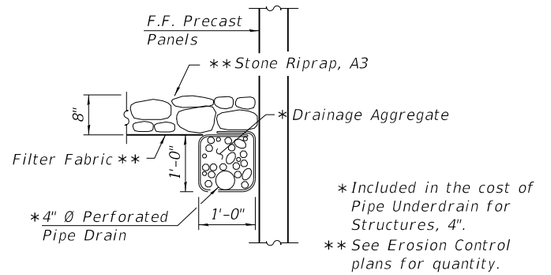
TABLE 1 - CRASHWORTHY WALL LIMITS

Start Station	Top of CW Elev.	Height (ft.)	End Station	Top of CW Elev.	Height (ft.)	Length (ft.)
62+39.94	681.98	11.92	62+72.44	681.77	11.71	32.50
62+72.44	681.77	14.25	64+18.60	680.85	13.33	146.16
64+18.60	685.85	18.33	64+84.68	685.85	18.33	67.59
64+84.68	680.34	12.82	66+23.86	680.34	12.82	142.93
66+23.86	N/R	N/R	68+73.83	N/R	N/R	244.66
68+73.83	673.45	5.93	69+25.33	671.79	4.27	51.50

N/R - Crashworthy Wall not required

ROADWAY DIMENSION TABLE

Station	①	②	
62+39.94	4'-0"	0	
64+08.81	4'-0"	0	
64+67.08	5'-3⅞"	0	
65+33.42	7'-5¾"	2'-0"	
65+47.63	7'-11¼"	2'-0"	(Raised Median)
66+51.64	11'-0"	2'-0"	
68+04.52	11'-0"	2'-0"	
68+59.98	11'-0"	3'-4¾"	(Note 1)



PIPE UNDERDRAIN DETAIL

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QUIGG ENGINEERING INC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
STRUCTURE NO. 058-W004
SHEET SB-4 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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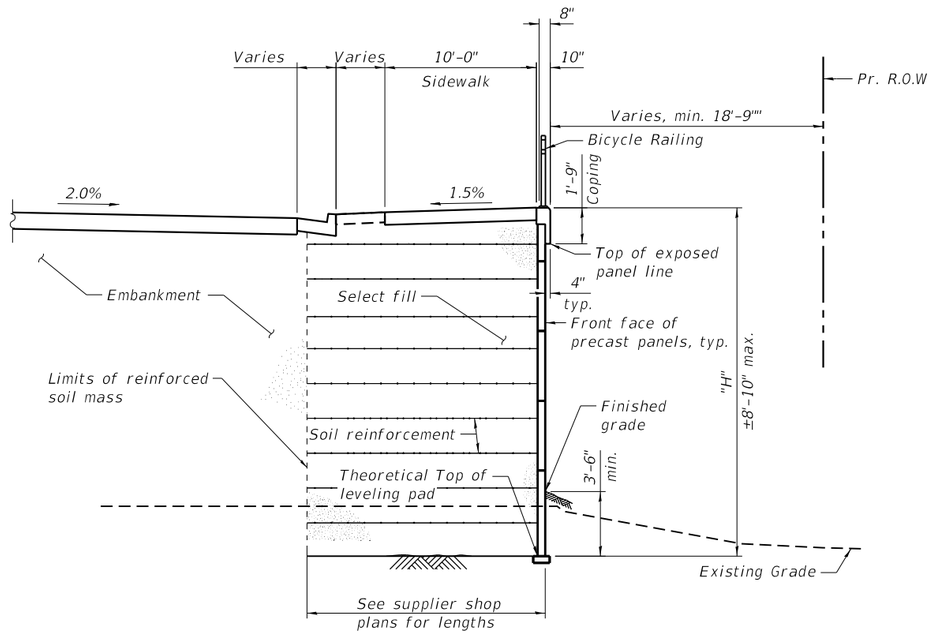
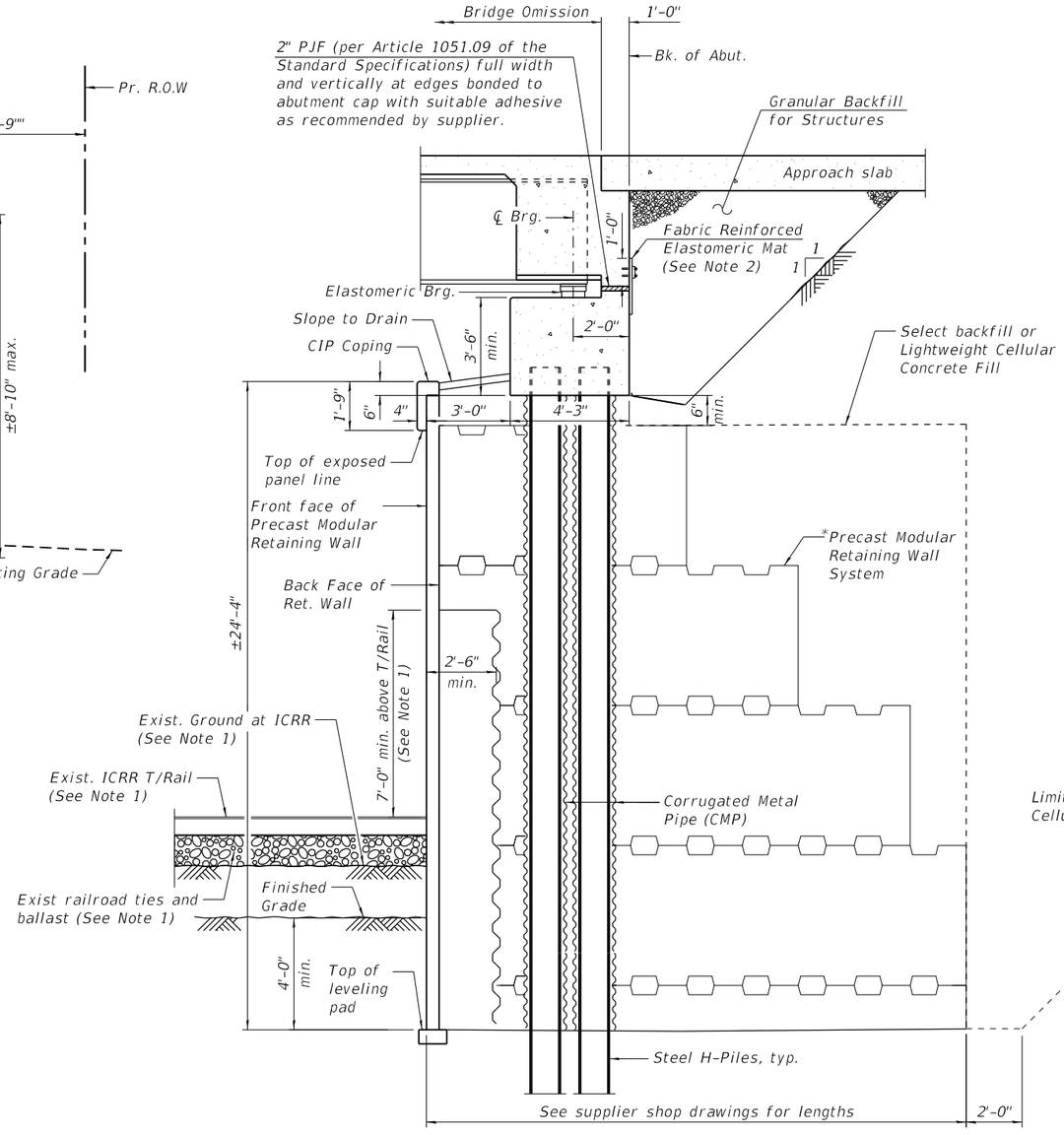
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		



SECTION THROUGH EAST MSE WALL

(From Sta. 68+59.98 to Sta. 68+78.37)



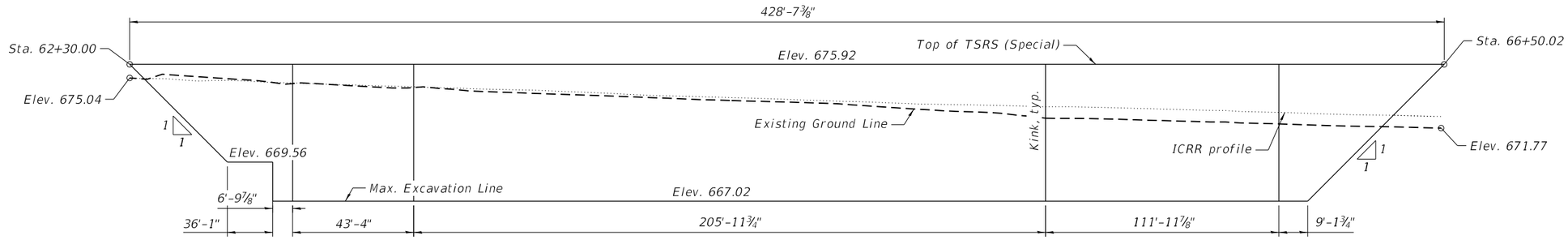
SECTION THROUGH SEMI-INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. ℄'s)

* The Precast Modular Wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.67 kips/ft. of wall.

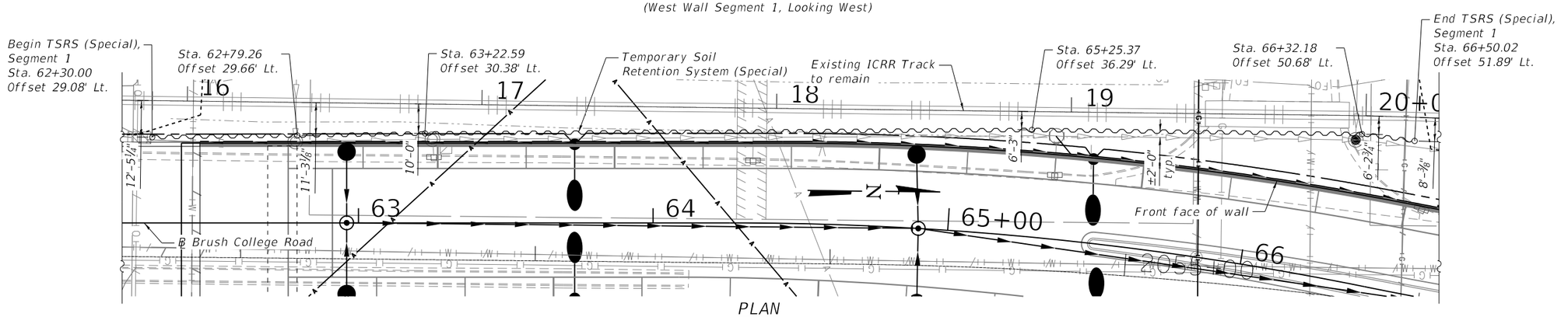
Notes:

1. *Section thru abutment showing IC railroad running parallel to the bridge beyond the west side of the structure. Crashworthy retaining walls shall extend 7'-0" above top of rail for wall within 25' of the ℄ existing rail.*
2. *Fabric Reinforced Elastomeric Mat according to Section 1028 of the Standard Specifications. Fabric mat shall be 24" wide and attached full width and vertically at edges to the abutment cap with a ⅜" x 5" steel plate and ½" Ø studs with nuts and washers at 12" cts. Cost included with Concrete Superstructure.*



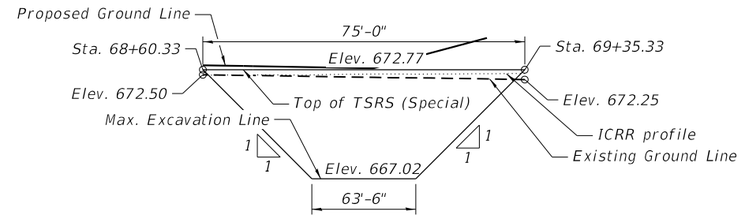
ELEVATION

(West Wall Segment 1, Looking West)



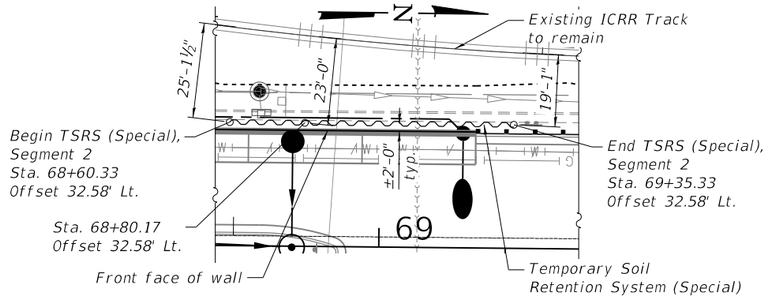
PLAN

(West Wall Segment 1)



ELEVATION

(West Wall Segment 2, Looking West)



PLAN

(West Wall Segment 2)

Notes:

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
2. Horizontal dimensions and grounds slopes are shown along the Temporary Soil Retention System unless noted otherwise.
3. Temporary Soil Retention System is paid for as Temporary Soil Retention System (Special). See Special Provisions.
4. The contractor is alerted to the presence of underground utilities under the proposed Temporary Soil Retention System and may need to be kept in service during construction of the wall. See Drainage and Utility Plans.

BILL OF MATERIAL

	Item	Unit	Quantity
*	Temporary Soil Retention System (Special)	Sq. Ft.	4,046

* See Special Provisions

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QUIGG ENGINEERING INC

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PLOT DATE =	CHECKED - MDC	REVISED -		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SOIL RETENTION SYSTEM (SPECIAL)
STRUCTURE NO. 058-W004

SHEET SB-6 OF SB-35 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7448	09-00933-01-BR	MACON	1019	600
		CONTRACT NO. 95893		
	ILLINOIS	FED. AID PROJECT		