

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
 FEDERAL AID HIGHWAY**

FAU ROUTE 7945 /MS 1270 (EAST 9TH ST)
 SOUTH CHESTNUT ST. TO LOCUST ST.
 SECTION NO.: 16-00053-00-RS
 PROJECT: GXZW(201)
 JOB NO.: C-96-123-21
 EAST 9TH STREET IMPROVEMENTS
 CHRISTIAN COUNTY

F.A.U. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	1
		ILLINOIS	CONTRACT NO. 93774	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 HIGHWAY STANDARDS, GENERAL NOTES, COMMITMENTS
- 3-8 SUMMARY OF QUANTITIES
- 9-11 TYPICAL SECTIONS
- 12-15 SCHEDULE OF QUANTITIES
- 16 ALIGNMENT, TIES & BENCHMARKS
- 17-18 REMOVAL PLAN
- 19-20 PLAN & PROFILE
- 21-22 STORM SEWER PLAN & PROFILE
- 23-26 INTERSECTION DETAIL
- 27 JOINTING PLAN
- 28 PAVEMENT MARKING AND SIGNAGE
- 29 EROSION CONTROL PLANS
- 30 MISCELLANEOUS DETAILS
- 31-35 STRUCTURAL BOX CULVERT
- 36-45 CROSS SECTIONS

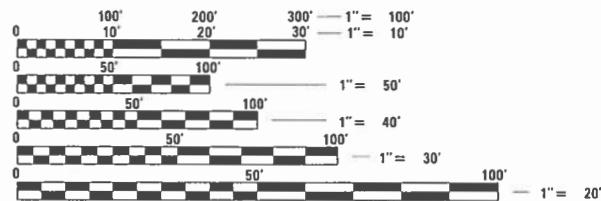


**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

EAST 9TH STREET
 DESIGN DESIGNATION:
 MAJOR COLLECTOR (URBAN)

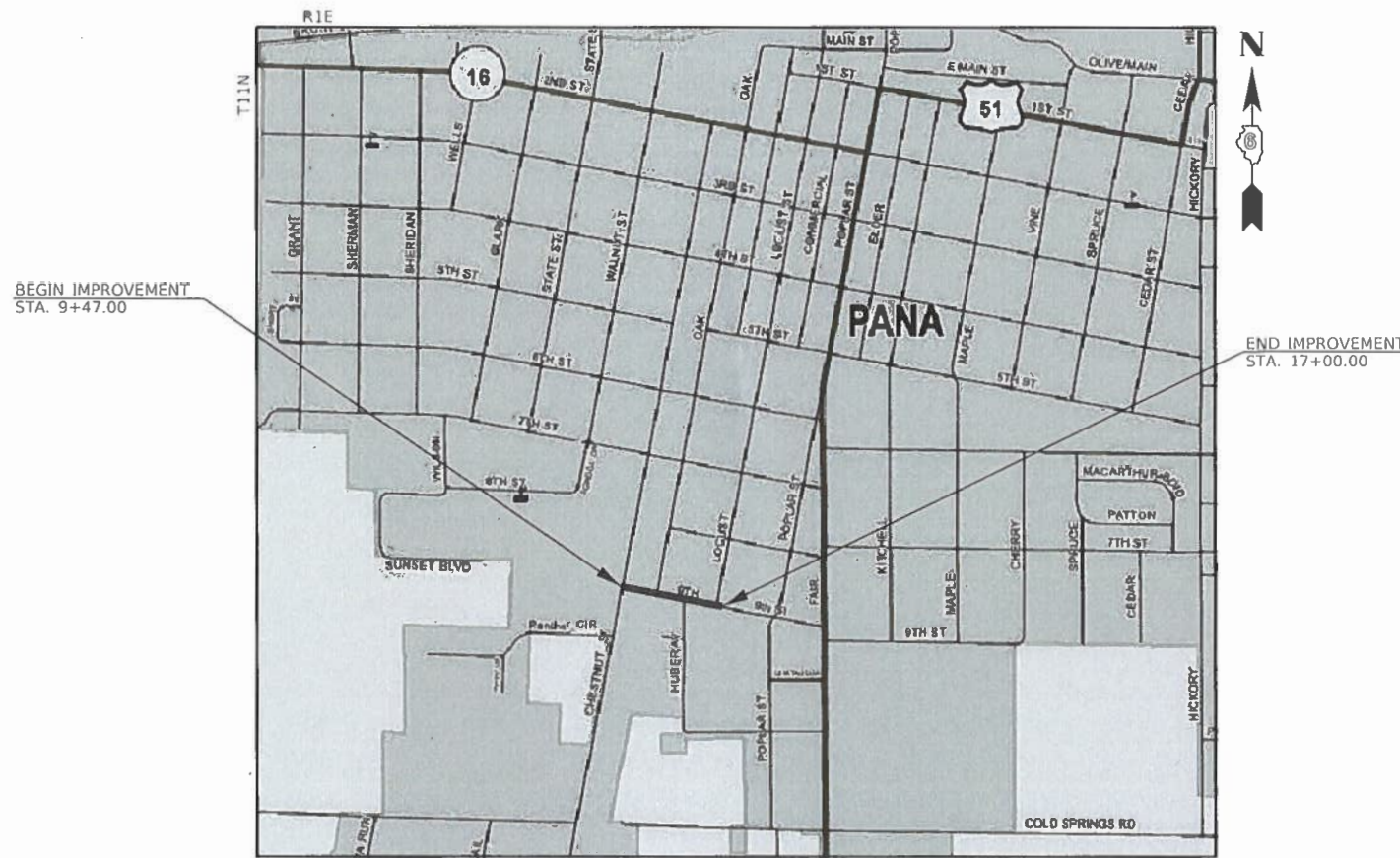
TRAFFIC DATA:
 2016 ADT = 1,350
 2040 ADT = 1,434
 P.V. = 95% S.U. = 3% M.U. = 2%

REGULATORY SPEED = 30 MPH
 DESIGN SPEED = 35 MPH



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 LOCATING INFORMATION FOR EXCAVATORS
 1-800-892-0123
 OR 811



LOCATION MAP

SCALE 1" = 700'
 TOTAL GROSS AND NET LENGTH OF IMPROVEMENT = 753 FT. = 0.143 MILES



Ryan W. Staley 2/10/22
 RYAN W. STALEY, P.E.
 LICENSED PROFESSIONAL ENGINEER
 ILLINOIS NO. 062-069637 EXPIRES 11-30-21

CITY OF PANA

APPROVED 2-10-22 2021
[Signature]
 BOB HOLTSHAUS, CITY ENGINEER

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PASSED March 2 2022
[Signature]
 DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review March 2 2022
[Signature]
 REGION FOUR ENGINEER

Farnsworth GROUP
 400 W. JEFFERSON AVENUE
 EFFINGHAM, ILLINOIS 62401
 (217) 342-5668 / info@f-w.com

PROJECT # 0160160.00 CONTRACT NO. 93774

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-10 PAVEMENT JOINTS
- 420101-07 24' (7.2 M) JOINTED PCC PAVEMENT
- 420111-04 PCC PAVEMENT ROUNDOUTS
- 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424026-03 ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542606-02 REINFORCED CONCRETE PIPE TEE
- 602301-04 INLET - TYPE A
- 602306-03 INLET - TYPE B
- 602401-07 PRECAST MANHOLE, TYPE A, 4' DIAMETER
- 602402-03 PRECAST MANHOLE, TYPE A, 5' DIAMETER
- 602406-11 PRECAST MANHOLE, TYPE A, 6' DIAMETER
- 602601-06 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-02 MANHOLE STEPS
- 604001-05 FRAME AND LIDS TYPE 1
- 604006-05 FRAME AND GRATE TYPE 3
- 604036-03 GRATE TYPE 8
- 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 780001-05 TYPICAL PAVEMENT MARKINGS
- B.L.R. 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2022", THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2022, THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
2. ANY STANDARD OR SPECIFICATION REFERENCED IN THE PLANS SHALL BE INTERPRETED TO BE THE LATEST PUBLISHED REVISION THEREOF.
3. ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (1986).
4. PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES, UNLESS NOTED IN THE PLANS.
5. FINISHED SURFACES SHOULD MATCH SURROUNDING GROUND, WITH ALLOWANCE FOR SETTLEMENT, OR AS OTHERWISE INDICATED BY THE CONTRACT DOCUMENTS.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE CONTRACT.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
8. ALL UTILITY POLES REQUIRING RELOCATION SHALL BE MOVED BY OTHERS UNLESS OTHERWISE SHOWN. THE POLE EDGE SHALL BE A MINIMUM 1.75' FROM THE FACE OF CURB AND NOT CONFLICT WITH PROPOSED SIDEWALK.
9. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY. CONTACT INFORMATION FOR UTILITY COMPANIES OR AGENCIES WHICH ARE KNOWN TO HAVE FACILITIES WITHIN OR ADJACENT TO THE PROJECT LIMITS MAY BE FOUND IN THE SPECIAL PROVISIONS.
10. UTILITIES SHOWN IN THE PLANS ARE AS REPORTED TO THE CITY BY THE UTILITY OWNERS AND AS INDICATED ON EXISTING UTILITY BASE MAPS AND REFERENCE DATA PROVIDED. NO ATTEMPT HAS BEEN MADE TO EXCAVATE, UNCOVER, OR EXPOSE THESE FACILITIES TO FIELD CHECK THE EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY, OR EXACT LOCATION OF THESE UTILITIES.
11. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER (217-519-1396) AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO STARTING OR RESTARTING ANY CONSTRUCTION.
12. THE CONTRACTOR SHALL NOTIFY THE PANA POLICE AND FIRE DEPARTMENTS, PANA AMBULANCE SERVICE, PANA COMMUNITY HOSPITAL, POSTAL, GARBAGE SERVICES AND PANA SCHOOL DISTRICT 8 PRIOR TO ANY ROADWAY CLOSURES IF APPLICABLE.
13. ALL EXISTING RIGHT-OF-WAY LINES AND EXISTING PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
14. DEPRESSED CURB AND GUTTER SHALL BE PROVIDED AT ALL DRIVEWAYS AND SIDEWALK RAMPS FOR THE DISABLED. SEE THE APPLICABLE STATE STANDARDS AND SPECIAL PROVISIONS.
15. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING PROPER CONTINUOUS DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT.
16. THE CONNECTION OF EXISTING OR PROPOSED STORM SEWERS, TILES, SUMP PUMP LINES, OR DRAIN LINES TO THE EXISTING OR PROPOSED DRAINAGE SYSTEM STRUCTURE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEMS FOR THE PROPOSED DRAINAGE SYSTEM.
17. A FULL DEPTH SAW CUT SHALL BE PROVIDED AT ALL REMOVAL LIMITS UNLESS OTHERWISE SHOWN ON THE PLANS. THIS WORK SHALL BE INCLUDED IN THE COST OF REMOVAL ITEMS.
18. THE DEPTH OF CONCRETE FOR DRIVEWAY PAVEMENTS SHALL BE 6 INCHES FOR PRIVATE ENTRANCES AND 8 INCHES FOR COMMERCIAL ENTRANCES AND ALLEYS.
19. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUB-SECTION MARKERS, RIGHT-OF-WAY MONUMENTS, AND PROPERTY MARKERS UNTIL THE OWNER, AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR REFERENCED THEIR LOCATION.
20. A PROTECTIVE COAT SHALL BE APPLIED ACCORDING TO ARTICLE 420.18, TO CONCRETE PAVEMENT, GUTTER FLAGS, CURB SURFACES, AND OTHER CONCRETE APPURTENANCES ADJACENT TO THE PAVEMENT.

GENERAL NOTES

21. THE CONTRACTOR SHALL PROTECT AND RESTORE TRAFFIC SIGNS WITHIN THE PROJECT LIMITS ACCORDING TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
22. THE CONTRACTOR SHALL SUBMIT A PROGRESS SCHEDULE WITHIN 10 DAYS OF CONTRACT AWARD NOTIFICATION.
23. GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TURF WITHIN ROW OR EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS INDICATED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
24. WHERE THE PROPOSED COMBINATION CONCRETE CURB AND GUTTER JOINS THE EXISTING CURB AND GUTTER THERE MAY BE A TRANSITION. TRANSITION CURB HEIGHT OVER 5' TO MATCH CURB HEIGHT. THIS WORK WILL BE CONSIDERED INCLUDED WITH THE COMBINATION CONCRETE CURB AND GUTTER AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
25. NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
26. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE 4 SAND BAGS PER BARRICADE.

COMMITMENTS:

1. INDIANA BAT TREE CLEARING RESTRICTION: PER USACE "404" PERMIT CORRESPONDENCE LETTER, TREE CLEARING SHALL NOT OCCUR DURING THE APRIL 1" THRU SEPTEMBER 30" TIME FRAME TO AVOID POTENTIAL IMPACT TO THE INDIANA AND NORTHERN LONG-EARED BATS.

HMA MIXTURE REQUIREMENT TABLE

LOCATION(S):	9TH STREET & SIDE STREETS	9TH STREET & SIDE STREETS
MIXTURE USE(S):	SURFACE & INCIDENTAL HMA	BINDER COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndes=50	4.0% @ Ndes=50
MIXTURE COMPOSITION:	IL-9.5	IL-9.5
FRICTION AGGREGATE:	MIXTURE "C"	N/A
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA

PLAN QUANTITIES FOR HOT-MIX ASPHALT ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB / SQ YD / IN THICKNESS.



USER NAME = rslakey	DESIGNED - RWS	REVISED
	DRAWN - RJT	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - ERB	REVISED
PLOT DATE = 2/8/2022 8:50:31 AM	DATE - 02/09/22	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS			
F.A.U. 7945 - EAST 9TH STREET			
SCALE: NO SCALE	SHEET 1 OF 1 SHEETS	STA. 9+47.00	TO STA. 17+00.00

F.A.U. RTE. 7945	SECTION 16-00053-00-RS	COUNTY CHRISTIAN	TOTAL SHEETS 45	SHEET NO. 2
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY
				0004 URBAN
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	32	32
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25
20200100	EARTH EXCAVATION	CU YD	1500	1500
20700220	POROUS GRANULAR EMBANKMENT	CU YD	203	203
20800150	TRENCH BACKFILL	CU YD	696	696
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	317	317
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2464	2464
25000100	SEEDING, CLASS 1	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	28	28
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	28	28
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	28	28
25100115	MULCH, METHOD 2	ACRE	0.25	0.25
25200100	SODDING	SQ YD	2249	2249
25200200	SUPPLEMENTAL WATERING	UNIT	4	4

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY 0004 URBAN
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	141	141
28000400	PERIMETER EROSION BARRIER	FOOT	632	632
28000500	INLET AND PIPE PROTECTION	EACH	39	39
28100109	STONE RIPRAP, CLASS A5	SQ YD	297	297
28200200	FILTER FABRIC	SQ YD	297	297
31101810	SUBBASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	2938	2938
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	34	34
35400450	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9 1/2"	SQ YD	31	31
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	40	40
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	109	109
42000206	PORTLAND CEMENT CONCRETE PAVEMENT 7 1/4" (JOINTED)	SQ YD	2108	2108
42001300	PROTECTIVE COAT	SQ YD	2464	2464
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	196	196
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	154	154

* SPECIALTY ITEMS



USER NAME = rslafey	DESIGNED - RWS	REVISED
	DRAWN - RJT	REVISED
PLOT SCALE = 24,000' / 1"	CHECKED - ERB	REVISED
PLOT DATE = 2/9/2022 8:56:33 AM	DATE - 02/09/22	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
F.A.U. 7945 - EAST 9TH STREET

SCALE: NO SCALE SHEET 2 OF 7 SHEETS STA. 9+47.00 TO STA. 17+00.00

F.A.U. RTE. 7945	SECTION 16-00053-00-RS	COUNTY CHRISTIAN	TOTAL SHEETS 45	SHEET NO. 4
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY 0004 URBAN
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	5906	5906
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	731	731
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	483	483
42400800	DETECTABLE WARNINGS	SQ FT	150	150
44000100	PAVEMENT REMOVAL	SQ YD	1766	1766
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	657	657
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	674	674
44000600	SIDEWALK REMOVAL	SQ FT	1089	1089
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2
54011005	PRECAST CONCRETE BOX CULVERTS 10' X 5'	FOOT	63	63
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1
54216200	REINFORCED CONCRETE PIPE TEE, 24" PIPE WITH 12" RISER	EACH	1	1

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY 0004 URBAN
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	136	136
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	26	26
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	133	133
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	123	123
550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	FOOT	95	95
* 56109210	WATER VALVES TO BE ADJUSTED	EACH	4	4
* 56400100	FIRE HYDRANTS TO BE MOVED	EACH	1	1
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3
60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	2	2
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60221200	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4
60235300	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	EACH	1	1
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	13	13

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				ROADWAY 0004 URBAN
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	3	3
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	5	5
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3
60260100	INLETS TO BE ADJUSTED	EACH	1	1
60500040	REMOVING MANHOLES	EACH	6	6
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	1539	1539
63200310	GUARDRAIL REMOVAL	FOOT	116	116
67100100	MOBILIZATION	L SUM	1	1
* 72000100	SIGN PANEL - TYPE 1	SQ FT	19	19
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	8	8
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	8	8
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	160	160
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1176	1176
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	316	316

* SPECIALTY ITEMS



USER NAME	rsalaly	DESIGNED -	RWS	REVISED
		DRAWN -	RJT	REVISED
PLOT SCALE	24.000' / 1" =	CHECKED -	ERB	REVISED
PLOT DATE	2/8/2022 8:50:37 AM	DATE -	02/09/22	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
F.A.U. 7945 - EAST 9TH STREET

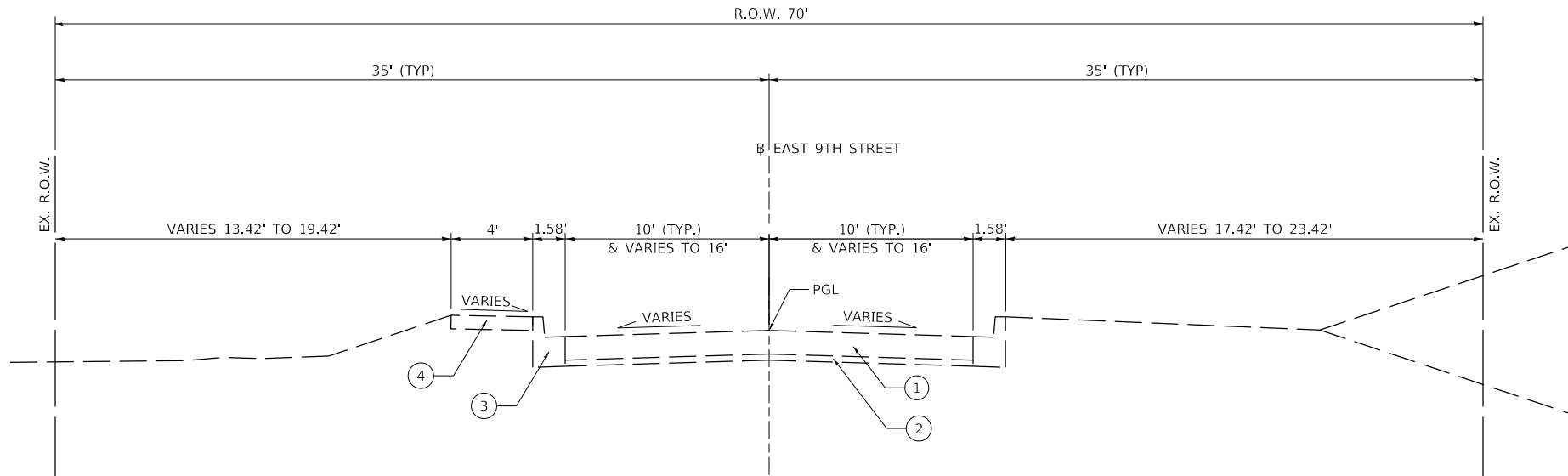
SCALE: NO SCALE SHEET 5 OF 7 SHEETS STA. 9+47.00 TO STA. 17+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	7
CONTRACT NO.			93774	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				ROADWAY	
				0004	URBAN
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	70	70	
* X0324878	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	1	1	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	304	304	
X5510100	STORM SEWER REMOVAL	FOOT	822	822	
* X5620128	ADJUSTING WATER SERVICE LINES	EACH	2	2	
X6023508	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	EACH	5	5	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	185	185	
# Z0076600	TRAINEES	Hour	500		
Z0056650	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 15"	FOOT	336	336	
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	500		
Z0056652	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 18"	FOOT	65	65	

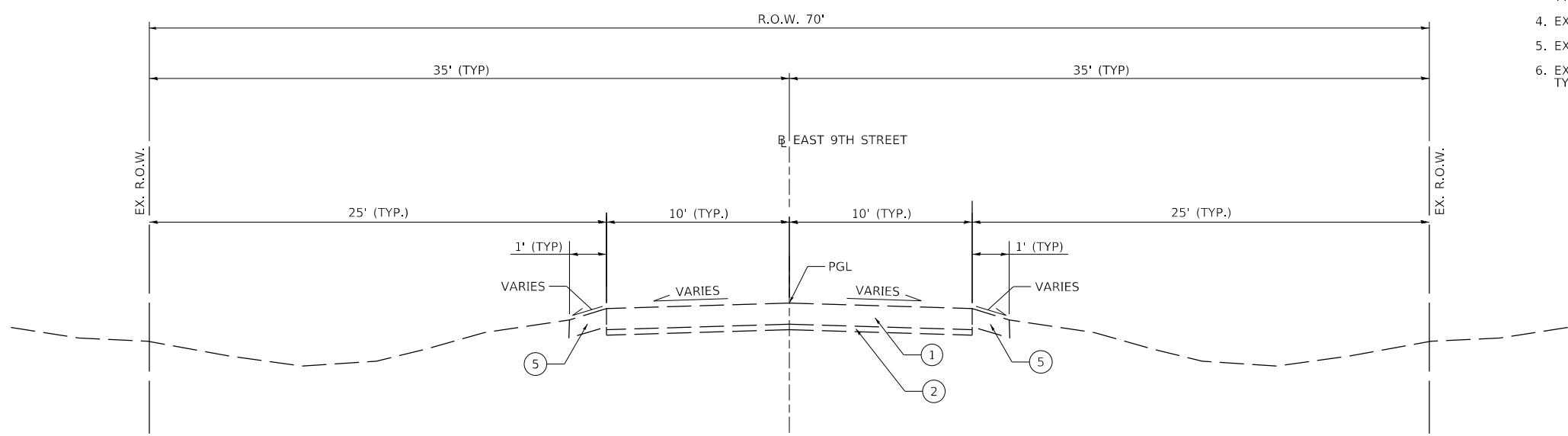
* SPECIALTY ITEMS
0042

NOTES:
 1. EXISTING PAVEMENT LAYERS SHOWN ARE BASED ON PAVEMENT CORES & DATA PROVIDED BY PSI ON JANUARY 18, 2019.



**EXISTING TYPICAL SECTION
 EAST 9TH STREET**
 STA. 9+47.00 TO STA. 11+23.00

- LEGEND**
1. EXISTING BITUMINOUS CONCRETE (HMA) WITH A3 BITUMINOUS SEAL COAT (DEPTH VARIES 7" TO 12" +/-)
 2. EXISTING AGGREGATE BASE COURSE
 3. EXISTING COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
 4. EXISTING PORTLAND CEMENT CONCRETE SIDEWALK
 5. EXISTING AGGREGATE SHOULDERS
 6. EXISTING COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.18

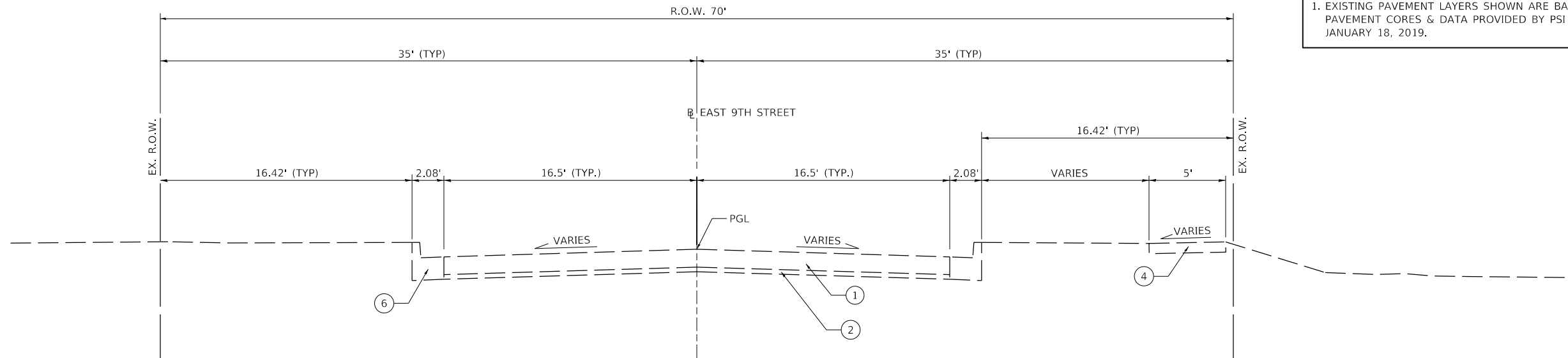


**EXISTING TYPICAL SECTION
 EAST 9TH STREET**
 STA. 11+23.00 TO STA. 16+07.00

USER NAME = rslakey	DESIGNED - RWS	REVISED
	DRAWN - RWS	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - ERB	REVISED
PLOT DATE = 2/8/2022 8:50:39 AM	DATE - 02/09/22	REVISED

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	9
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		

NOTES:
 1. EXISTING PAVEMENT LAYERS SHOWN ARE BASED ON PAVEMENT CORES & DATA PROVIDED BY PSI ON JANUARY 18, 2019.

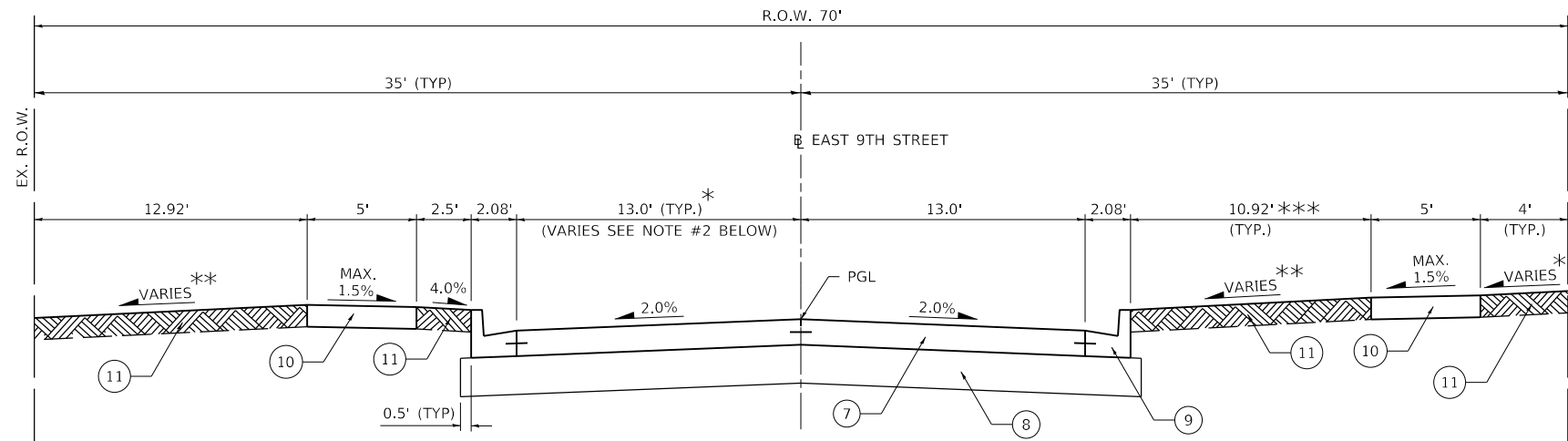


**EXISTING TYPICAL SECTION
 EAST 9TH STREET**
 STA. 16+07.00 TO STA. 17+00.00

- LEGEND**
1. EXISTING BITUMINOUS CONCRETE (HMA) WITH A3 BITUMINOUS SEAL COAT (DEPTH VARIES 7" TO 12" +/-)
 2. EXISTING AGGREGATE BASE COURSE
 3. EXISTING COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
 4. EXISTING PORTLAND CEMENT CONCRETE SIDEWALK
 5. EXISTING AGGREGATE SHOULDERS
 6. EXISTING COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.18

USER NAME = rslakey	DESIGNED - RWS	REVISED
	DRAWN - RWS	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - ERB	REVISED
PLOT DATE = 2/8/2022 8:50:40 AM	DATE - 02/09/22	REVISED

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	10
ILLINOIS			FED. AID PROJECT	



NOTES:

1. PROPOSED HANDRAIL OR FENCING TO BE FURNISHED AND INSTALLED BY CITY SEPARATE FROM THIS PROJECT. THE HANDRAIL SHALL BE 40' LONG EACH SIDE CENTERED ON THE PROPOSED BOX CULVERT LOCATED AT THE BACK EDGE OF PROPOSED SIDEWALK.
- * 2. VARIES 13.0' TO 18.5' STA 15+43.00 TO STA 16+50.00
3. SEE STATE STANDARDS FOR TIE BAR AND DOWEL BAR LOCATIONS AND SIZE DETAILS. ALL TIE BARS AND DOWEL BARS SHALL BE EPOXY COATED.

**PROPOSED TYPICAL SECTION
EAST 9TH STREET**

STA. 9+47.00 TO STA. 16+17.00

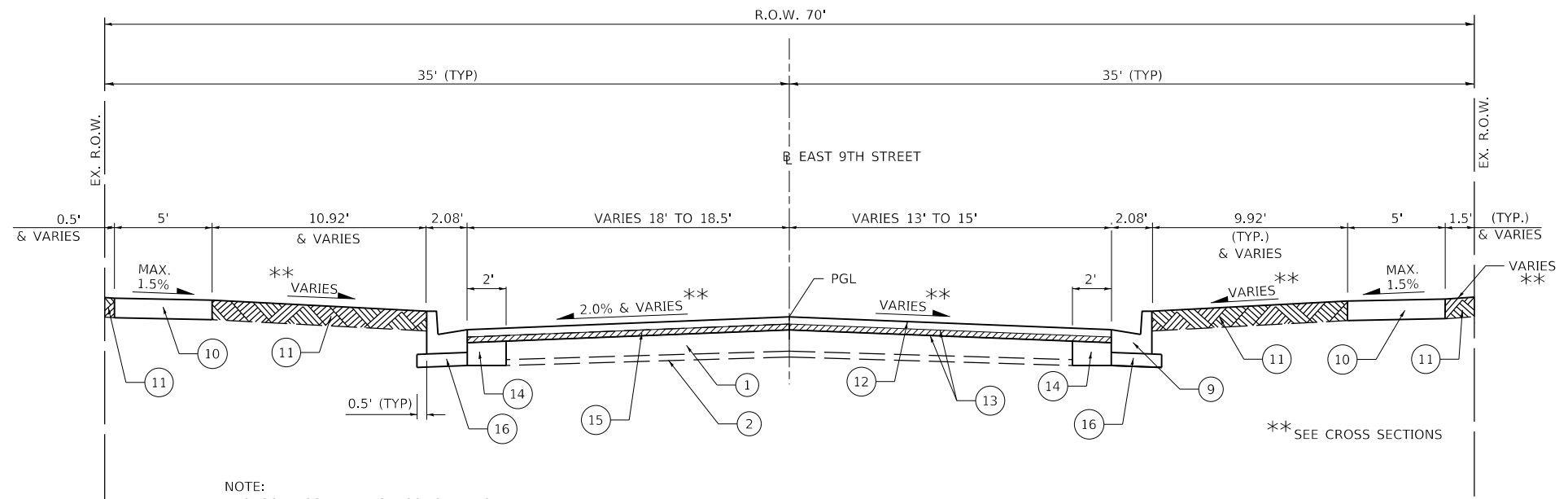
** SEE CROSS SECTIONS
*** 2.5' - STA 9+73.00 TO STA 12+60.00
STA 12+60.00 TO STA 13+00.00
TRANSITION TO TYPICAL SECTION
(AS SHOWN)

NOTES:

1. EXISTING PAVEMENT LAYERS SHOWN ARE BASED ON PAVEMENT CORES & DATA PROVIDED BY PSI ON JANUARY 18, 2019.

LEGEND

1. EXISTING BITUMINOUS CONCRETE (HMA) WITH A3 BITUMINOUS SEAL COAT (DEPTH VARIES 7" TO 12" +/-)
2. EXISTING AGGREGATE BASE COURSE
3. EXISTING COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12
4. EXISTING PORTLAND CEMENT CONCRETE SIDEWALK
5. EXISTING AGGREGATE SHOULDERS
6. EXISTING COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.18
7. PROPOSED PORTLAND CEMENT CONCRETE PAVEMENT (JOINTED), 7.25"
8. PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 12"
9. PROPOSED COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.18
10. PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 4" (6" AT PRIVATE ENTRANCES AND 8" AT COMMERCIAL ENTRANCES AND ALLEYS)
11. FURNISH AND PLACE TOPSOIL 4" AND SODDING
12. INCIDENTAL HOT-MIX ASPHALT SURFACING - 3.75" MIN. AT GUTTER AND VARIES. (SEE CROSS SECTIONS)
13. BITUMINOUS MATERIALS (TACK COAT) (0.05 LB/SF ON MILLED / EXISTING SURFACE). (NOT PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF INCIDENTAL HOT-MIX ASPHALT SURFACING)
14. PCC BASE COURSE WIDENING, 9.5"
15. HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SEE CROSS SECTIONS)
16. AGGREGATE BASE COURSE TYPE B, 4"



NOTE:
PROPOSED COMBINATION CONCRETE CURB AND GUTTER ON LEFT SIDE EXTENDS ONLY FROM STA 16+17.00 TO STA 16+50.00

**PROPOSED TYPICAL SECTION
(HMA TRANSITION TO EXISTING)
EAST 9TH STREET**

STA. 16+17.00 TO STA. 17+00.00

** SEE CROSS SECTIONS

STRUCTURAL DESIGN DATA:

ADT (2016) = 1,350 ADT (2030) = 1,398 DHV = 139
 STRUCTURAL DESIGN TRAFFIC YEAR: 2030
 PV: 1.328 SU: 42 MU: 28
 CLASS OF STREET: III
 TRAFFIC FACTOR: 0.21
 SUBGRADE SUPPORT RATING: POOR
 PAVEMENT STRUCTURAL MATERIALS: 7.25" PORTLAND CEMENT CONCRETE ON 12" SUBBASE GRANULAR MATERIAL



USER NAME = rslaley	DESIGNED - RWS	REVISED
	DRAWN - RWS	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - ERB	REVISED
PLOT DATE = 2/8/2022 8:50:40 AM	DATE - 02/09/22	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
F.A.U. 7945 - EAST 9TH STREET	
SCALE: NO SCALE	SHEET 3 OF 3 SHEETS
STA. 9+47.00	TO STA. 17+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	11
CONTRACT NO.			93774	
ILLINOIS FED. AID PROJECT				

ROADWAY REMOVAL SCHEDULE										
LOCATION			20100210	20100210	44000100	44000200	44000500	44000600	63200310	X4401198
			TREE REMOVAL (OVER 15 UNITS DIAMETER) (UNIT)	TREE REMOVAL, ACRES (ACRE)	PAVEMENT REMOVAL (SQ YD)	DRIVEWAY PAVEMENT REMOVAL (SQ YD)	COMBINATION CURB AND GUTTER REMOVAL (FOOT)	SIDEWALK REMOVAL (SQ FT)	GUARDRAIL REMOVAL (FOOT)	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SQ YD)
STATION	TO	STATION								
9+47.00	TO	12+08.79	32	0.25	707	63	421	804	116	0
12+08.79	TO	14+00.00	0	0	434	373	0	0	0	0
14+00.00	TO	16+17.00	0	0	625	221	253	285	0	0
16+17.00	TO	17+00.00	0	0	0	0	0	0	0	304
PROJECT TOTALS			32	0.25	1,766	657	674	1,089	116	304

EROSION CONTROL SCHEDULE						
LOCATION				28000250	28000400	
				TEMPORARY EROSION CONTROL SEEDING (POUND)	PERIMETER EROSION BARRIER (FOOT)	
STATION	TO	STATION	OFFSET			
9+47.00	TO	12+08.79	RT/LT	63	329	
12+08.79	TO	14+00.00	RT/LT	27	0	
14+00.00	TO	16+17.00	RT/LT	51	172	
16+17.00	TO	17+00.00	RT/LT	0	131	
PROJECT TOTALS				141	632	

BOX CULVERT SCHEDULE								
LOCATION			20700220	28100109	28200200	50100100	54001001	54011005
			POROUS GRANULAR EMBANKMENT (CU YD)	STONE RIPRAP, CLASS A5 (SQ YD)	FILTER FABRIC (SQ YD)	REMOVAL OF EXISTING STRUCTURES (EACH)	BOX CULVERT END SECTIONS, CULVERT NO. 1 (EACH)	PRECAST CONCRETE BOX CULVERTS 10' X 5' (FOOT)
STATION	TO	STATION						
9+47.00	TO	12+08.79	203	297	297	1	2	63
12+08.79	TO	14+00.00	0	0	0	0	0	0
14+00.00	TO	17+00.00	0	0	0	0	0	0
PROJECT TOTALS			203	297	297	1	2	63

LANDSCAPING SCHEDULE										
LOCATION			21101615	25000100	25000400	25000500	25000600	25100115	25200100	25200200
			TOPSOIL FURNISH AND PLACE, 4" (SQ YD)	SEEDING, CLASS 1 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH, METHOD 2 (ACRE)	SODDING (SQ YD)	SUPPLEMENTAL WATERING (UNIT)
STATION	TO	STATION								
9+47.00	TO	12+08.79	1,221	0.25	13	13	13	0.25	1,006	1.33
12+08.79	TO	14+00.00	325	0	5	5	5	0	325	1.33
14+00.00	TO	17+00.00	918	0	10	10	10	0	918	1.33
PROJECT TOTALS			2,464	0.25	28	28	28	0.25	2,249	4

ROADWAY EARTHWORK SCHEDULE											
LOCATION			20200100								
			EARTH EXCAVATION (CU YD)	BORROW EXCAVATION (CU YD)	ESTIMATED TOPSOIL EXCAVATION (CU YD)	ESTIMATED CUT MATERIAL FOR EMBANKMENT (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%) (CU YD)	EMBANKMENT (CU YD)	ESTIMATED WASTE (+) OR FURNISHED EXCAVATION (-) (CU YD)	TOTAL TOPSOIL PLACED (CU YD)	ESTIMATED TOPSOIL AVAILABLE (WASTE) (+) OR TO BE FURNISHED (-) (CU YD)
STATION	TO	STATION									
9+47.00	TO	12+08.79	707	0	134	573	430	410	20	95	39
12+08.79	TO	14+00.00	420	0	80	340	255	70	185	36	44
14+00.00	TO	17+00.00	373	0	118	255	191	64	127	102	16
PROJECT TOTALS			1,500	0	332	1,168	876	544	332	233	99

- NOTES: 1. CUT END AREAS SHOWN ON THE CROSS SECTIONS INCLUDES AGG. BASE AND SHOULDERS AND INCLUDES ANY EXISTING TOPSOIL. CUT END AREAS DO NOT INCLUDE EXIST HMA SURFACE OR CONCRETE SURFACE.
2. FILL END AREAS SHOWN ON THE CROSS SECTIONS ARE TO TOP OF EMBANKMENT GRADE AND DO NOT INCLUDE AREA OF TOPSOIL PLACEMENT.
3. ESTIMATE 1.25 SHRINKAGE FACTOR.
4. ROADWAY EARTHWORK SCHEDULE IS SHOWN FOR INFORMATION ONLY.



USER NAME = rslakey	DESIGNED - RWS	REVISED
	DRAWN - RJT	REVISED
PLOT SCALE = 24,000' / 1"	CHECKED - ERB	REVISED
PLOT DATE = 2/8/2022 8:50:41 AM	DATE - 02/09/22	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NO SCALE		SHEET 1 OF 4 SHEETS	STA. 9+47.00	TO STA. 17+00.00
-----------------	--	---------------------	--------------	------------------

SCHEDULE OF QUANTITIES
F.A.U. 7945 - EAST 9TH STREET

F.A.U. RTE. 7945	SECTION 16-00053-00-RS	COUNTY CHRISTIAN	TOTAL SHEETS 45	SHEET NO. 12
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	

PAVEMENT SCHEDULE										
LOCATION			21001000	31101810	35101600	35400450	40800050	42000206	42001300	60604400
			GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (SQ YD)	SUBBASE GRANULAR MATERIAL, TYPE B 12" (SQ YD)	AGGREGATE BASE COURSE, TYPE B 4" (SQ YD)	PCC BASE COURSE WIDENING 9 1/2" (SQ YD)	INCIDENTAL HOT-MIX ASPHALT SURFACING (TON)	PORTLAND CEMENT CONCRETE PAVEMENT 7 1/4" (JOINTED) (SQ YD)	PROTECTIVE COAT (SQ YD)	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 (FOOT)
STATION	TO	STATION								
9+47.00	TO	12+08.79	106	1,114	0	0	20	825	965	606
12+08.79	TO	14+00.00	105	767	0	0	0	552	641	383
14+00.00	TO	16+17.00	106	1,057	0	5	21	731	858	434
16+17.00	TO	17+00.00	0	0	34	26	68	0	0	116
PROJECT TOTALS			317	2,938	34	31	109	2,108	2,464	1,539

DRIVEWAY AND SIDEWALK SCHEDULE									
LOCATION			40201000	42300200	42300400	42400100	42400300	42400410	42400800
			AGGREGATE FOR TEMPORARY ACCESS (TON)	PCC DRIVEWAY PAVEMENT 6 INCH (SQ YD)	PCC DRIVEWAY PAVEMENT 8 INCH (SQ YD)	PCC SIDEWALK 4 INCH (SQ FT)	PCC SIDEWALK 6 INCH (SQ FT)	PCC SIDEWALK 8 INCH (SQ FT)	DETECTABLE WARNINGS (SQ FT)
STATION	TO	STATION							
9+47.00	TO	12+08.79	13	47	0	2499	166	0	50
12+08.79	TO	14+00.00	13	119	78	1230	448	256	20
14+00.00	TO	17+00.00	14	30	76	2176	117	227	80
PROJECT TOTALS			40	196	154	5,906	731	483	150

PAVEMENT MARKING SCHEDULE						
LOCATION			78009004	78009006	78009024	
			MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW) (FOOT)	MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (FOOT)	MODIFIED URETHANE PAVEMENT MARKING - LINE 24" (FOOT)	
STATION	TO	STATION				
9+47.00	TO	12+08.79	524	146	27	
12+08.79	TO	14+00.00	382	0	0	
14+00.00	TO	17+00.00	270	170	43	
PROJECT TOTALS			1,176	316	70	

ROADWAY SIGNAGE SCHEDULE										
LOCATION							72000100	72400100	72400500	72800100
							SIGN PANEL - TYPE 1 (SQ FT)	REMOVE SIGN PANEL ASSEMBLY - TYPE A (EACH)	RELOCATE SIGN PANEL ASSEMBLY - TYPE A (EACH)	TELESCOPING STEEL SIGN SUPPORT (FOOT)
STATION/LOCATION	OFFSET	MUTCD #	CUSTOM	WIDTH (INCH)	LENGTH (INCH)	SIGN DESCRIPTION				
9+47	22.7' LT	R1-1				STOP	0.0	1	1	15
10+72	19.0' RT	W3-1				STOP AHEAD	0.0	1	1	14.5
11+01	12.8' RT					SNOW ROUTE	0.0	1	1	13.5
11+32	27.1' LT	R1-1		36	36	STOP	9.0			15
11+72	24.4' LT		CITY			OAK ST	0.0			13.0
14+92	16.6' LT		CITY			9TH ST	0.0			13.5
15+36	17.0' RT	R1-1				SNOW ROUTE	0.0	1	1	13.5
15+59	35.3' LT	R1-1				STOP	0.0	1	1	15.5
15+59	35.3' LT	R1-4P				ALL WAY	0.0			15.5
15+59	35.3' LT	R1-1				STOP	0.0	1	1	15.5
15+59	35.3' LT	R1-4P				ALL WAY	0.0			15.5
15+95	20.2' RT	R1-1				STOP	0.0	1	1	15.5
15+95	20.2' RT	R1-4P				ALL WAY	0.0			15.5
16+00	26.1' LT		CITY			S. LOCUST ST	0.0			13.0
16+00	26.1' LT		CITY			9TH ST	0.0			13.0
16+13	22.4' LT	R1-1		36	36	STOP	9.0	1	1	15.5
16+13	22.4' LT	R1-4P		18	6	ALL WAY	0.8			15.5
PROJECT TOTALS							19	8	8	160

ROADWAY APPURTENANCE SCHEDULE									
STRUCTURE NAME	LOCATION		56109210	56400100	60255500	60260100	60500040	X0324878	X5620128
	STATION	OFFSET	WATER VALVES TO BE ADJUSTED (EACH)	FIRE HYDRANTS TO BE MOVED (EACH)	MANHOLES TO BE ADJUSTED (EACH)	INLETS TO BE ADJUSTED (EACH)	REMOVING MANHOLES (EACH)	ADJUSTING SANITARY SEWER SERVICE LINE (EACH)	ADJUSTING WATER SERVICE LINES (EACH)
EX1	11+00.37	6.0' LT			1				
MH1	11+28.00	20.6' RT					1		
EX3	11+40.85	5.9' LT			1				
VALVE	11+70.57	5.7' RT	1						
MH2	12+35.40	17.6' LT					1		
MH3	12+36.50	19.0' RT					1		
SAN. SERV.	12+70.00	21.0' RT						1	
WATER SERV.	12+88.00	21.0' RT							1
VALVE	12+88.20	25.3' RT	1						
MH4	13+25.20	17.3' RT					1		
VALVE	13+51.69	6.9' RT	1						
EX4	13+56.37	7.8' LT			1				
MH5	13+66.50	15.8' RT					1		
VALVE	14+50.00	7.3' RT	1						
WATER SERV.	15+90.25	23.5' RT							1
FIRE HYDRANT	15+94.29	27.2' LT		1					
INLET	15+97.87	22.7' LT				1			
MH6	16+01.30	16.3' RT					1		
PROJECT TOTALS			4	1	3	1	6	1	2



USER NAME = rstaley
DESIGNED - RWS
DRAWN - RJT
PLOT SCALE = 24,000' / 1" / 1" / 1"
CHECKED - ERB
PLOT DATE = 2/8/2022 8:50:42 AM
DATE - 02/09/22
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
F.A.U. 7945 - EAST 9TH STREET

SCALE: NO SCALE SHEET 2 OF 4 SHEETS STA. 9+47.00 TO STA. 17+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	13
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		

STORM SEWER AND PIPE CULVERT REMOVAL SCHEDULE					
LOCATION			20800150	50104400	X5510100
			TRENCH BACKFILL (CU YD)	CONCRETE HEADWALL REMOVAL (EACH)	STORM SEWER REMOVAL (FOOT)
STATION	TO	STATION			
9+47.00	TO	12+08.79	14	1	186
12+08.79	TO	14+00.00	61	0	374
14+00.00	TO	17+00.00	65	0	262
PROJECT TOTALS			140	1	822

ROADWAY STORM SEWER SCHEDULE														
LOCATION						20800150	550A0050	550A0090	550A0120	550A0450	550A5100	Z0056648	Z0056650	Z0056652
						TRENCH BACKFILL CU YD	STORM SEWERS, CLASS A, TYPE 1 12"	STORM SEWERS, CLASS A, TYPE 1 18"	STORM SEWERS, CLASS A, TYPE 1 24"	STORM SEWERS, CLASS A, TYPE 2 36"	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 15"	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 18"
STRUCTURE NO.	PIPE INVERT ELEV.	TO	STRUCTURE NO.	PIPE INVERT ELEV.	% SLOPE	CU YD	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT
1	683.72	TO	2	683.50	1.00	8.1						22		
6	684.36	TO	5	684.21	0.80	4.1	19							
5	684.11	TO	4	683.90	0.80	7.0						26		
4A	683.97	TO	4	683.85	2.00	1.5						6		
4	683.80	TO	3	683.70	0.80	3.9						13		
3	683.60	TO	2	683.50	0.80	4.4						13		
2	683.42	TO	15	683.28	0.40	13.2							34	
15	683.18	TO	33	683.15	0.50	3.2							5	
33	683.05	TO	32	682.33	0.50	56.9							143	
7	683.08	TO	16	682.80	1.00	7.5						28		
16	682.49	TO	32	682.45	1.00	1.3						4		
32	682.23	TO	31	681.86	0.50	25.7							73	
29	682.74	TO	30	682.55	0.85	2.6						22		
30	682.45	TO	8	682.26	0.90	4.3							21	
8	682.16	TO	17	681.88	1.00	8.6							28	
17B	682.20	TO	17	681.84	1.64	4.3						22		
17	681.78	TO	31	681.74	1.00	1.4								4
31	681.63	TO	28	680.97	1.20	21.2								55
27	681.60	TO	28	681.32	2.00	3.3	14							
28	680.52	TO	26	680.24	0.30	60.9			92					
10A	681.68	TO	10	681.36	1.10	7.4	29							
9	681.68	TO	10	681.36	1.10	7.2	29							
10	681.00	TO	18	680.85	0.50	8.1							28	
18A	681.27	TO	18	680.95	1.10	9.5						29		
18	680.75	TO	26	680.71	1.00	0.7							4	
26A	681.48	TO	26	681.40	1.10	1.2	7							
26	680.10	TO	23	679.81	0.30	73.4					95			
25	680.78	TO	13	680.71	1.20	1.0								6
13	680.61	TO	12	680.34	1.35	13.2								
24	680.41	TO	12	680.34	1.20	1.1								
12	680.24	TO	20	679.93	0.80	30.7								
20	679.83	TO	23	679.81	1.10	1.8								
23A	682.38	TO	23	682.22	2.00	1.8	8							
23	679.71	TO	22	679.49	0.30	84.5						74		
11	683.68	TO	19	683.40	1.00	8.5	28							
19	683.30	TO	22	683.28	1.00	0.7	2							
22	679.39	TO	21	679.30	0.30	46.2							31	
21	679.20	TO	34	679.14	0.30	15.8							18	
TOTAL						556	136	26	133	123	95	185	336	65



USER NAME = rslaley	DESIGNED - RWS	REVISED
	DRAWN - RJT	REVISED
PLOT SCALE = 24,000' / 1"	CHECKED - ERB	REVISED
PLOT DATE = 2/8/2022 8:50:44 AM	DATE - 02/09/22	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
F.A.U. 7945 - EAST 9TH STREET**

SCALE: NO SCALE SHEET 3 OF 4 SHEETS STA. 9+47.00 TO STA. 17+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	14
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		

				ROADWAY DRAINAGE STRUCTURE SCHEDULE												
LOCATION				28000500	54213681	54216200	60218400	60218500	60221100	60221200	60223800	60235300	60235700	60236200	60240220	X6023508
				INLET AND PIPE PROTECTION	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	REINFORCED CONCRETE PIPE TEE, 24" PIPE WITH 12" RISER	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 3 FRAME AND GRATE	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	INLETS, TYPE A, TYPE 8 GRATE	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE
STRUCTURE NO.	STATION	OFFSET	CONTROL ELEVATION	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	
34	10+12.55	44.6' RT	679.11		1											
21	10+22.00	20.0' RT	688.02	1							1					
22	10+57.00	20.0' RT	687.32	1							1					
19	10+57.00	15.1' RT	687.18	1									1			
11	10+57.00	15.1' LT	687.18	1									1			
24	11+27.15	29.4' LT	683.40	1												1
23A	11+30.00	30.5' RT	684.00	1										1		
23	11+35.00	21.8' RT	685.71	1							1					
20	11+35.00	15.1' RT	685.55	1				1								
12	11+35.00	28.2' LT	685.25	1						1						
13	11+60.10	28.2' LT	684.96	1				1								
25	11+66.71	30.9' LT	683.75	1												1
10A	12+03.50	15.1' LT	684.68	1									1			
26A	12+34.42	30.5' RT	682.74	1										1		
26	12+34.42	21.2' RT	684.73	1							1					
18	12+34.42	15.1' RT	684.58	1											1	
10	12+34.42	15.1' LT	684.20	1											1	
18A	12+66.00	15.1' RT	684.68	1									1			
9	12+66.00	15.1' LT	684.68	1									1			
26B	12+98.00	20.8' RT	683.71	1		1										
28	13+32.12	20.6' RT	685.29	1					1							
27	13+33.94	37.0' RT	683.60	1												1
29	13+47.89	26.9' LT	684.50	1												1
17B	13+66.87	16.7' RT	685.17	1								1				
30	13+71.00	26.4' LT	684.50	1												1
31	13+90.00	21.5' RT	685.74	1			1									
17	13+90.00	15.1' RT	685.65	1											1	
8	13+90.00	15.1' LT	685.65	1									1			
32	14+66.00	21.5' RT	686.35	1			1									
16	14+66.00	15.1' RT	686.26	1									1			
7	14+66.00	15.1' LT	686.26	1									1			
6	15+51.00	17.0' LT	686.99	1									1			
5	15+61.43	34.7' LT	687.31	1									1			
4	15+89.05	34.7' LT	687.30	1									1			
4A	15+96.26	37.2' LT	686.80	1										1		
3	15+98.00	22.7' LT	687.46	1									1			
33	16+12.00	21.0' RT	687.82	1			1									
15	16+12.00	15.1' RT	687.72	1									1			
2	16+12.00	20.5' LT	687.61	1											1	
1	16+35.00	20.5' LT	688.17	1									1			
TOTAL				39	1	1	3	2	1	1	4	1	13	3	5	5

NOTES: SEE STORM SEWER PROFILE SHEETS FOR LOCATIONS OF DRAINAGE STRUCTURES AND SEWER INVERTS.
CONTROL ELEVATIONS OF CURB CASTINGS ON STRUCTURES ARE TO THE TOP OF CURB. ELEVATIONS OF MANHOLES NOT IN CURB LINE ARE TO THE CENTER AND TOP OF LID. ELEVATIONS OF "BEEHIVE" GRATES ARE TO RIM ELEVATION OF GRATE (NOT TOP OF BEEHIVE), UNLESS NOTED OTHERWISE.
OFFSETS FOR CURB INLETS AND MANHOLES IN CURB LINE ARE SHOWN TO THE BACK OF CURB.
OFFSETS FOR ALL OTHER STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE.
OFFSETS AND CONTROL ELEVATION FOR PRC FLARED END SECTION IS TO CENTER POINT OF OUTFALL END (LOWEST POINT) OF END SECTION.



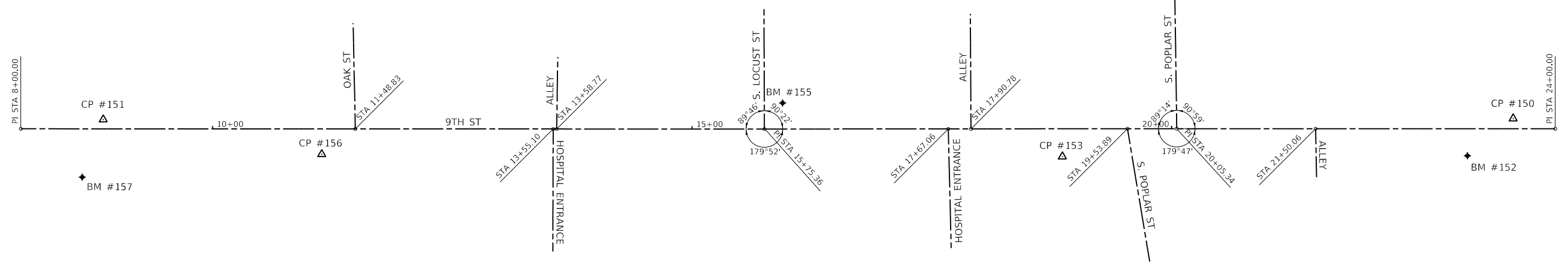
USER NAME = rstaley	DESIGNED - RWS	REVISED
	DRAWN - RJT	REVISED
PLOT SCALE = 24,000' / 1"	CHECKED - ERB	REVISED
PLOT DATE = 2/8/2022 8:50:45 AM	DATE - 02/09/22	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NO SCALE		SHEET 4 OF 4 SHEETS	STA. 9+47.00	TO STA. 17+00.00
-----------------	--	---------------------	--------------	------------------

**SCHEDULE OF QUANTITIES
F.A.U. 7945 - EAST 9TH STREET**

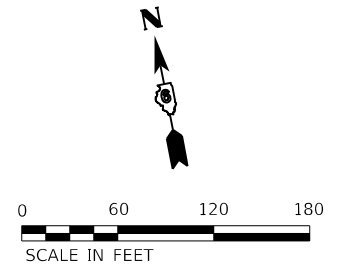
F.A.U. RTE. 7945	SECTION 16-00053-00-RS	COUNTY CHRISTIAN	TOTAL SHEETS 45	SHEET NO. 15
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	

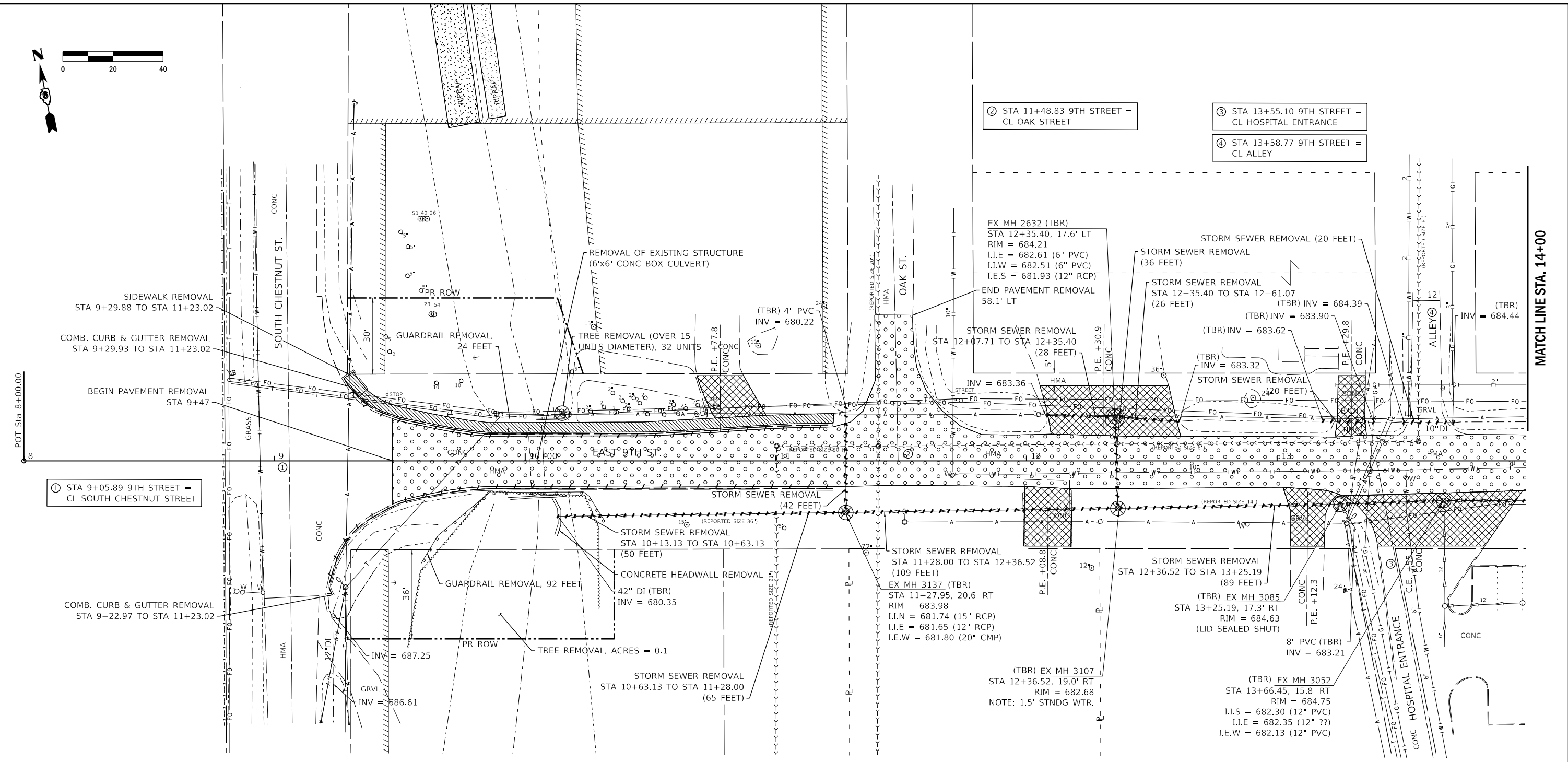


EAST 9TH STREET ALIGNMENT		
Control Type	Northing	Easting
POT Sta 8+00.00	990125.92	2601791.09
POT Sta 24+00.00	989816.92	2603360.97

CONTROL POINTS						
Control Points	Station	Offset	Northing	Easting	Elevation	Description
CP #150	23+56.30	10.63' LT	989835.81	2603320.15	682.92	RBR
CP #151	8+86.51	9.61' LT	990118.69	2601877.49	689.27	RBR
CP #153	18+87.13	29.07' RT	989887.47	2602852.13	686.62	RBR
CP #156	11+46.24	26.47' RT	990032.98	2602125.66	684.45	RBR

BENCHMARKS				
Benchmarks	Northing	Easting	Elevation	Description
BM#152	989808.29	2603265.70	685.16	SPINDLE IN N. FACE OF PP @ SW QUAD. 9TH ST & US 51 (FAIR AVE.)
BM#155	989998.66	2602576.01	689.84	TOP OPERATING NUT ON FH @ NE QUAD. 9TH ST. & LOCUST ST.
BM#157	990052.66	2601907.15	690.49	RR SPIKE IN N. FACE OF PP @ SE QUAD. OF 9TH ST. AND CHESTNUT ST.





① STA 9+05.89 9TH STREET =
CL SOUTH CHESTNUT STREET

② STA 11+48.83 9TH STREET =
CL OAK STREET

③ STA 13+55.10 9TH STREET =
CL HOSPITAL ENTRANCE

④ STA 13+58.77 9TH STREET =
CL ALLEY

MATCH LINE STA. 14+00

REMOVAL LEGEND	
	PAVEMENT REMOVAL
	HMA SURFACE REMOVAL, VARIABLE DEPTH
	DRIVEWAY PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	COMB. CURB & GUTTER REMOVAL
	INLET / MANHOLE / TREE REMOVAL
	STORM SEWER REMOVAL

PEN TABLE: D6016016000_Standard Project Penubli
 DRIVER: L:\WORK\90401811
 SHEET: FILE: 825103160160300 - Plans 301 St Improvements\04_Drawing\02\CAD_Sheets\06016016000-045 Removal Plan 01.dwg

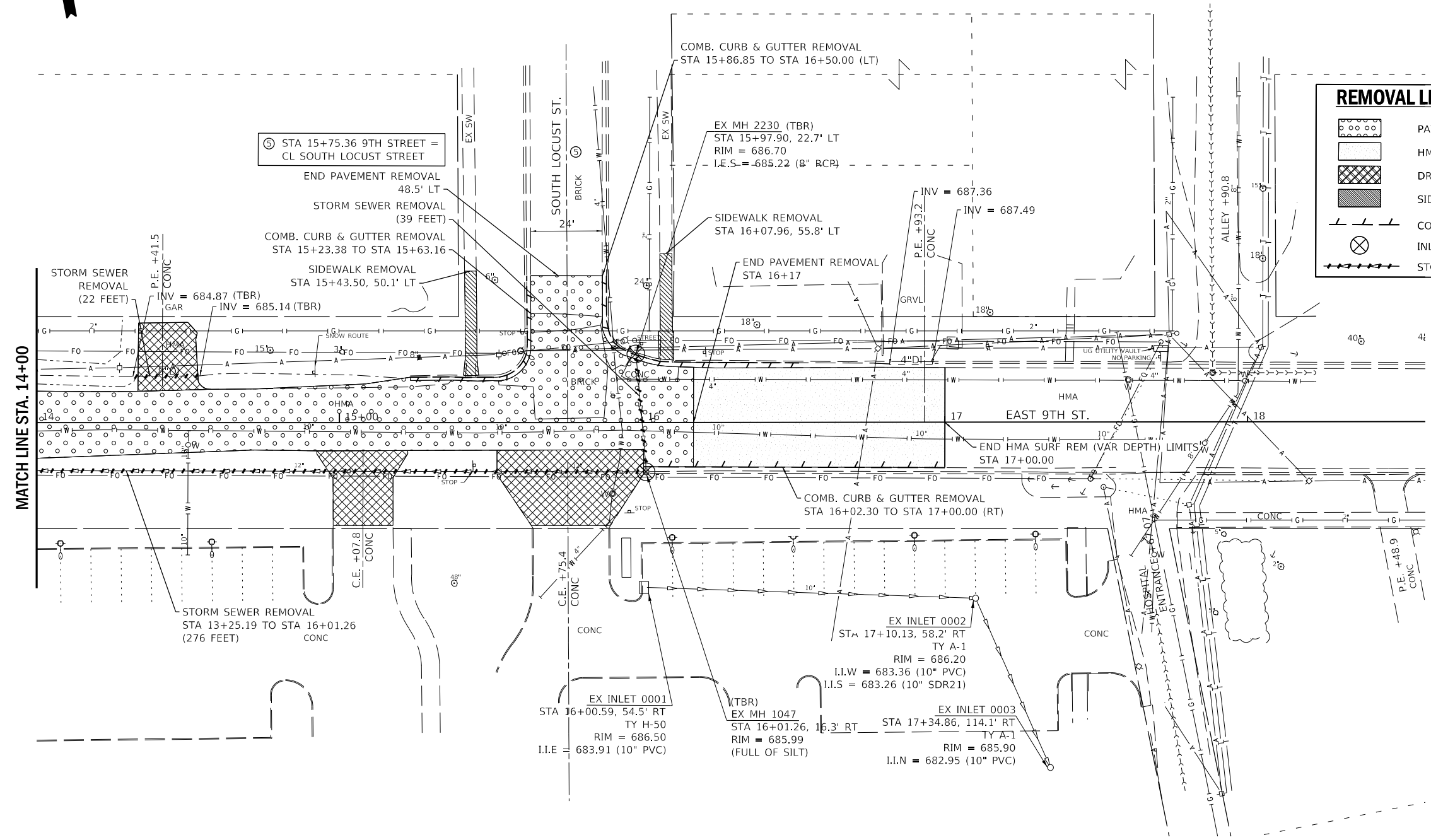
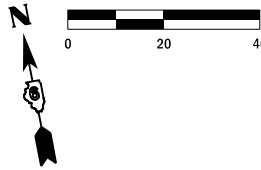
Farnsworth GROUP
 400 WEST JEFFERSON AVENUE
 EFFINGHAM, ILLINOIS 62401
 (217) 342-6668 / info@f-w.com

USER NAME = rslakey	DESIGNED - RWS	REVISED -
PLOT SCALE = 24x30.00" = 1" = 16'	DRAWN - RJT	REVISED -
PLOT DATE = 2/8/2022	CHECKED - ERB	REVISED -
8:50:49 AM	DATE - 02/09/22	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN	
F.A.U. 7945 - EAST 9TH STREET	
SCALE: AS SHOWN	SHEET 1 OF 2 SHEETS
STA. 9+47.00	TO STA. 14+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	17
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		



REMOVAL LEGEND

- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL, VARIABLE DEPTH
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- COMB. CURB & GUTTER REMOVAL
- INLET / MANHOLE / TREE REMOVAL
- STORM SEWER REMOVAL

PEN TABLE: DRIVER: SHEET: DOT'SSZ_Standard Project Penet...
 FILE: 2021091616000046_Improvements04_Drawing\2021091616000046_Removal_Plan_02.dwg

Farnsworth GROUP
 400 WEST JEFFERSON AVENUE
 EFFINGHAM, ILLINOIS 62401
 (217) 342-6668 / info@f-w.com

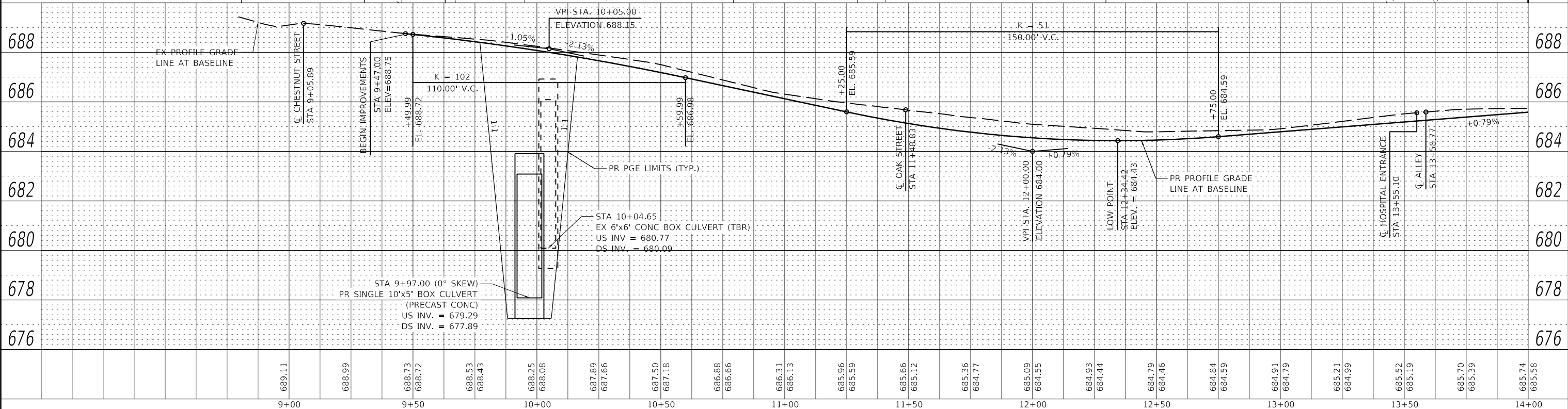
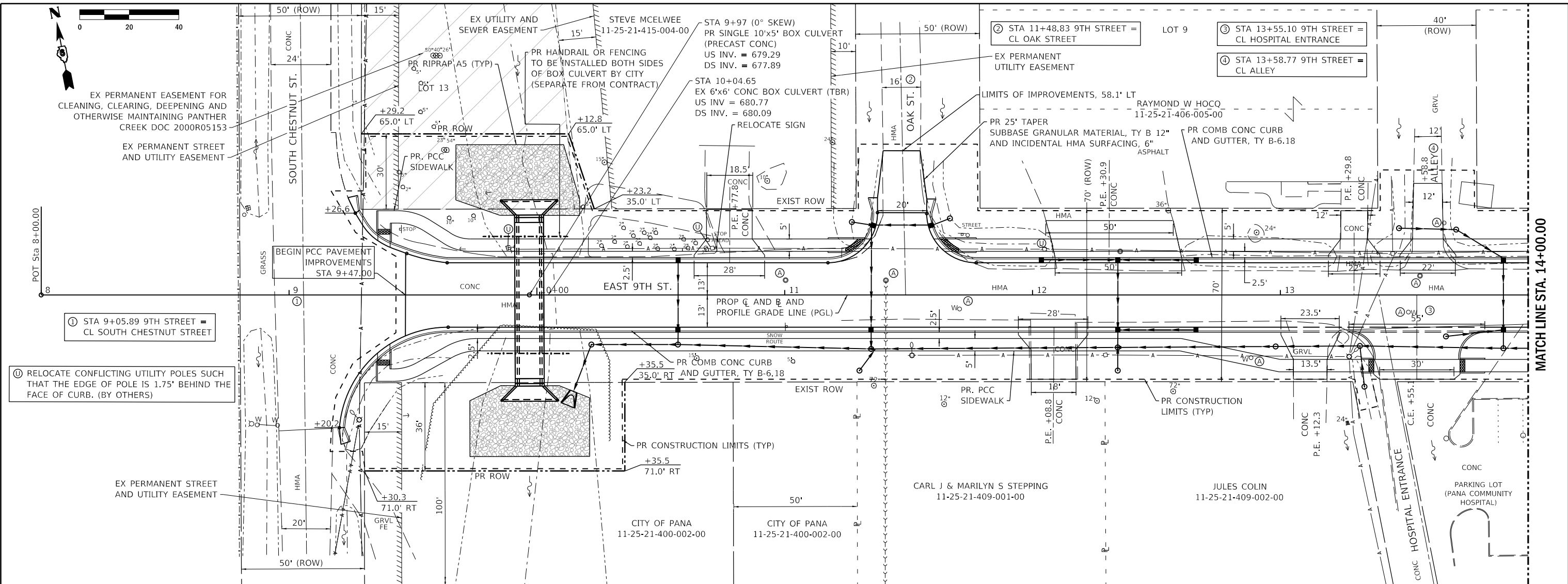
USER NAME = rslakey	DESIGNED - RWS	REVISED .
PLOT SCALE = 24x30.00" = 1" / ft.	DRAWN - RJT	REVISED .
PLOT DATE = 2/8/2022 8:50:50 AM	CHECKED - ERB	REVISED .
	DATE - 02/09/22	REVISED .

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN
F.A.U. 7945 - EAST 9TH STREET

SCALE: AS SHOWN SHEET 2 OF 2 SHEETS STA. 14+00.00 TO STA. 17+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	18
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	

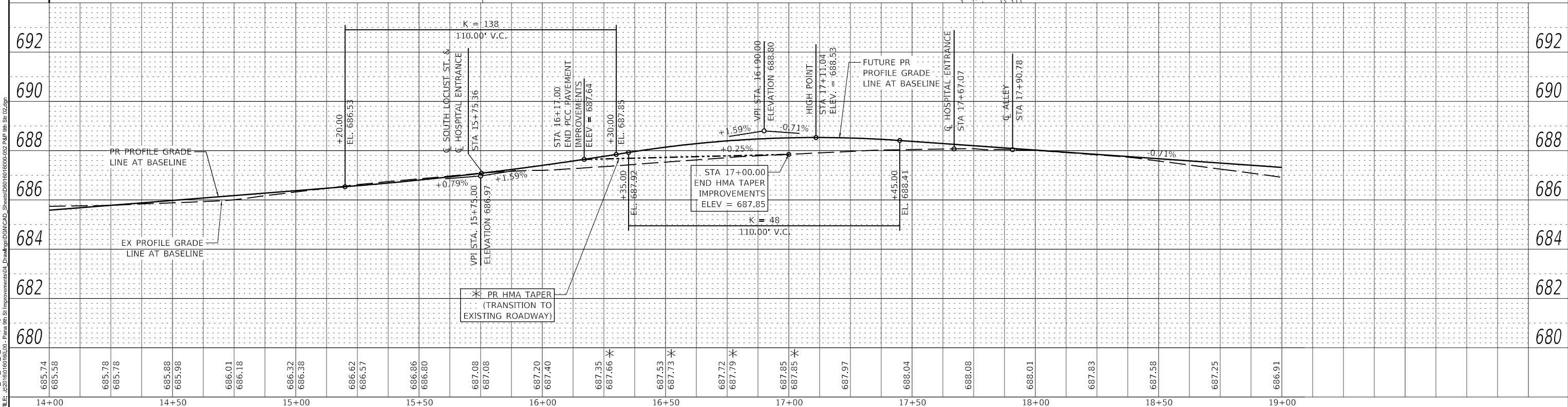
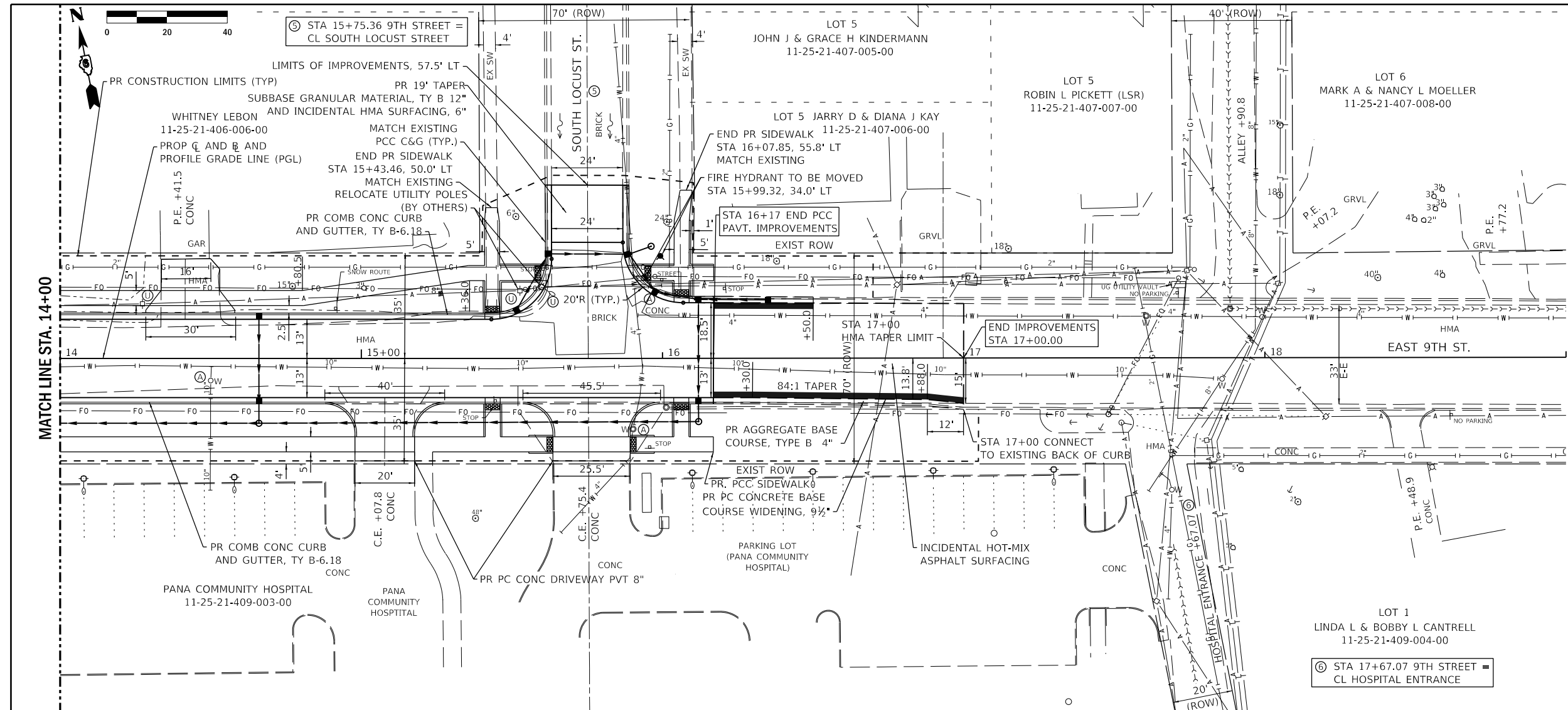


PEN TABLE: D:\016016000_Standard Project Pen.tbl
 DOTSSA_RD_PDF_FL_MONO.ctb
 FILE: J:\2016\160160000 - Pana 9th St Improvements\04_Drawing\DWG\CAD_Sheet\2016\16000-051 P&P 9th St.dwg
 PRINT DRIVER: SHEET

 Farnsworth GROUP 400 WEST JEFFERSON AVENUE EFFINGHAM, ILLINOIS 62401 (217) 342-6668 / info@f-w.com	USER NAME = rstaley PLOT SCALE = 24x30.00" = 1/8" PLOT DATE = 2/8/2022	DESIGNED - RWS DRAWN - RJT CHECKED - ERB DATE - 02/09/22	REVISED . REVISED . REVISED . REVISED .	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN AND PROFILE F.A.U. 7945 - EAST 9TH STREET		F.A.U. RTE. = 7945 SECTION = 16-00053-00-RS COUNTY = CHRISTIAN CONTRACT NO. = 93774	TOTAL SHEETS = 45 SHEET NO. = 19 ILLINOIS FED. AID PROJECT
	SCALE: 1"=20'(H)/1"=2'(V) SHEET 1 OF 2 SHEETS STA. 9+47.00 TO STA. 14+00.00								

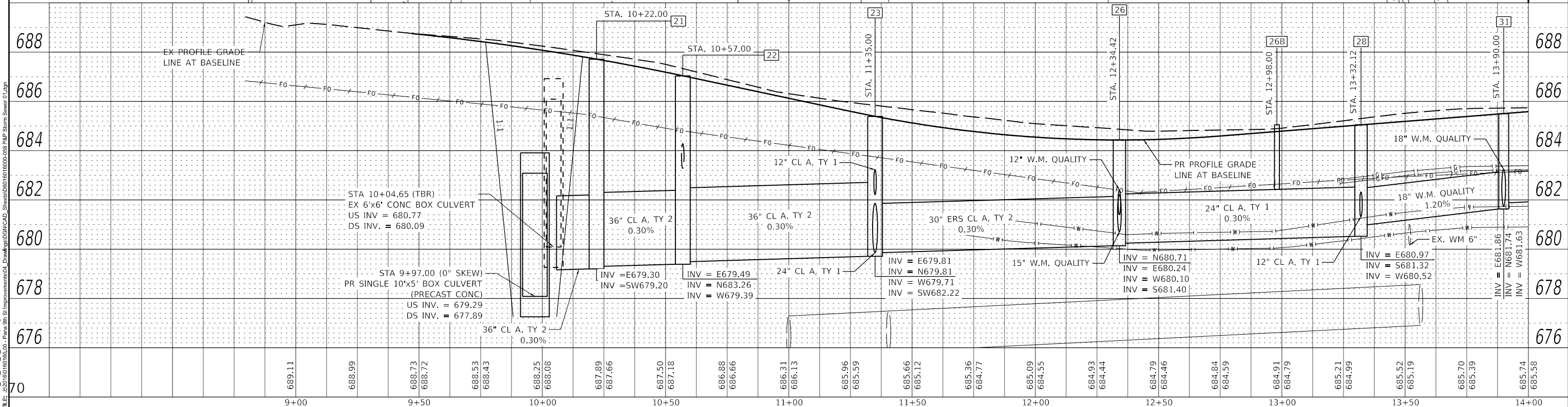
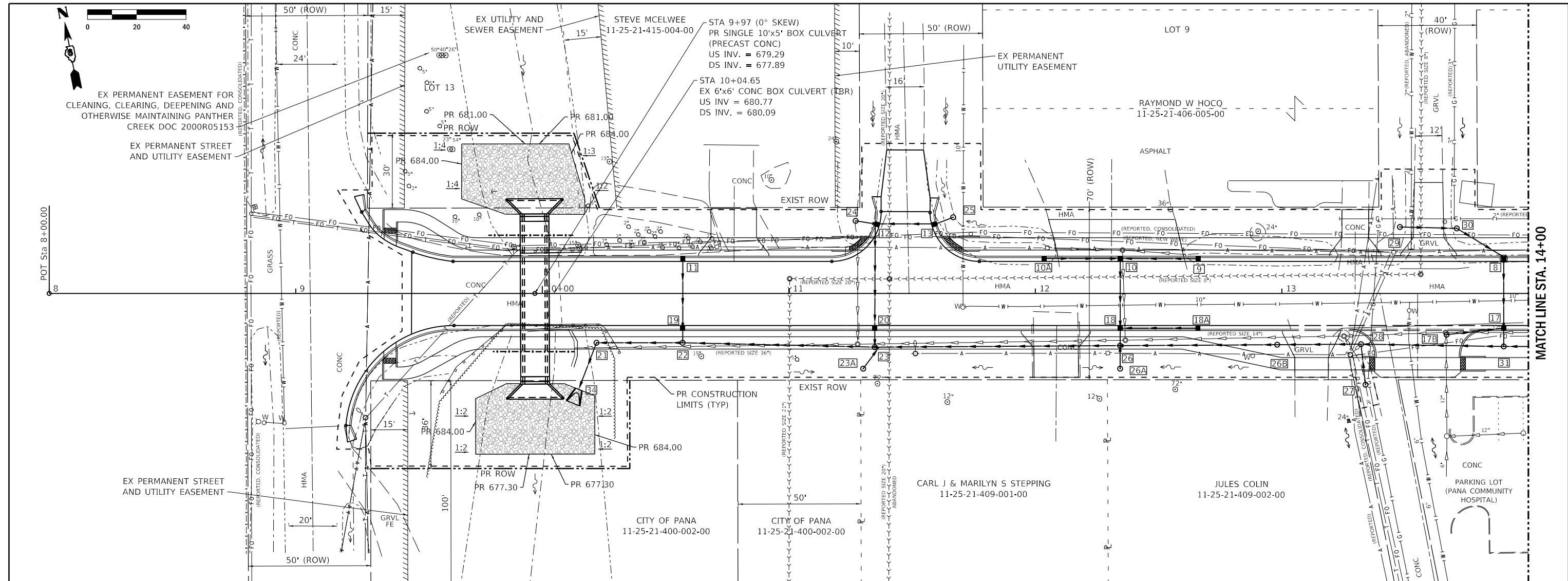
LEGEND

- Ⓢ RELOCATE CONFLICTING UTILITY POLES SUCH THAT THE EDGE OF POLE IS 1.75' BEHIND THE FACE OF CURB. (BY OTHERS)
- ▬ PR PC CONCRETE BASE COURSE WIDENING, 9 1/2"



PEN TABLE: D:\016016000_Standard Project Pen.tbl
 DOTSSS_RD_PDF_FL_MON09.rtg
 FILE: J:\2016\160160000 - Pana 9th St Improvements\04_Drawing\02\CAD_Sheet\06\16016000-052 P&P 9th St 02.dgn
 PRINT DRIVER: SHEET

Farnsworth GROUP 400 WEST JEFFERSON AVENUE EFFINGHAM, ILLINOIS 62401 (217) 342-6668 / info@f-w.com		USER NAME = rstaley DESIGNED - RWS DRAWN - RJT CHECKED - ERB DATE - 02/09/22	REVISED . REVISED . REVISED . REVISED .	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		PLAN AND PROFILE F.A.U. 7945 - EAST 9TH STREET		F.A.U. RTE. 7945 SECTION 16-00053-00-RS COUNTY CHRISTIAN CONTRACT NO. 93774	TOTAL SHEETS 45 SHEET NO. 20 ILLINOIS FED. AID PROJECT
PLOT SCALE = 24x30.00" = 1/4" PLOT DATE = 2/8/2022 8:50:52 AM		SCALE: 1"=20'(H)/1"=2'(V) SHEET 2 OF 2 SHEETS STA. 14+00.00 TO STA. 17+00.00							



PEN TABLE: D:\016016000_Standard Project Pen.tbl
 DOTSSS_RD_PDF_FL_MON02.dwg
 FILE: S:\2016\1601600000 - Pana 9th St Improvement\04_Drawing\DWG\CAD_Sheet\2016\16000-058 P&P Storm Sewer.dwg
 PRINT DRIVER: SHEET

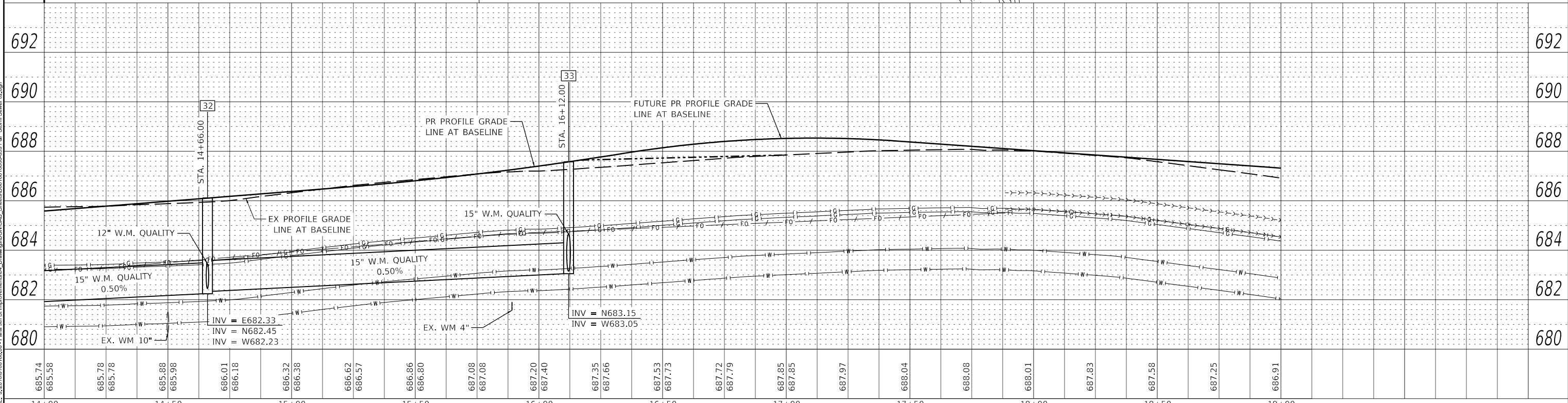
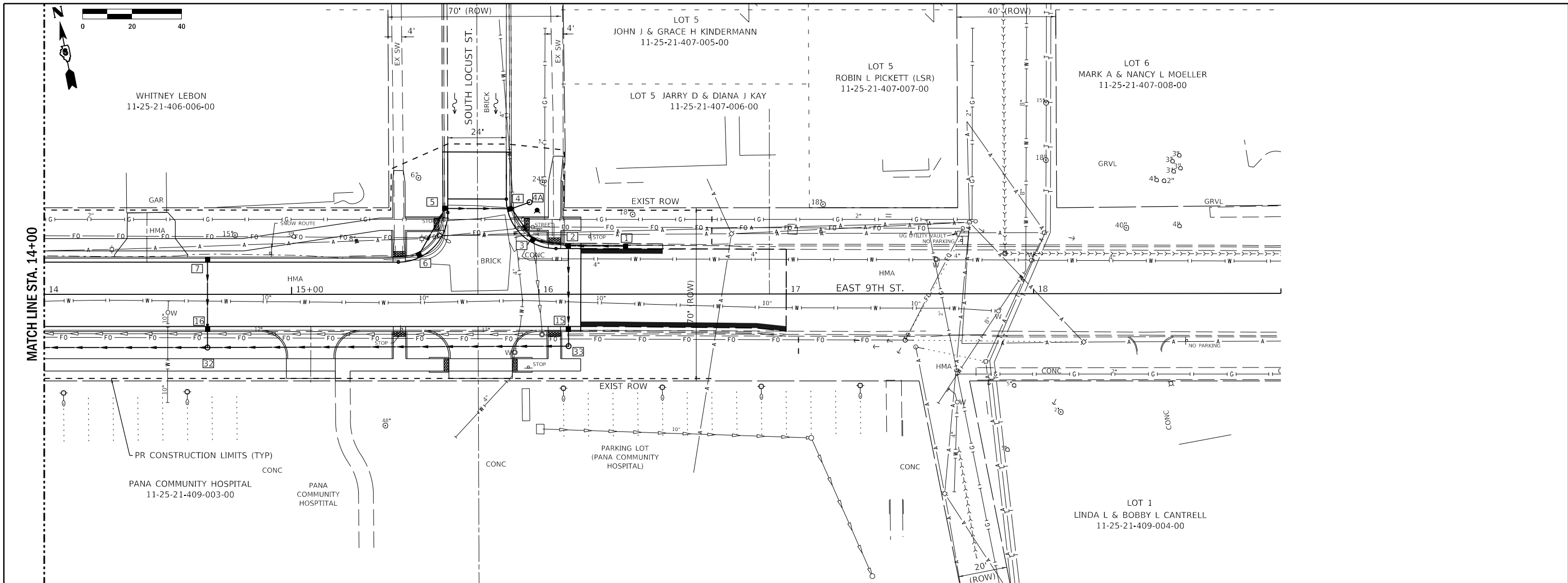
Farnsworth GROUP
 400 WEST JEFFERSON AVENUE
 EFFINGHAM, ILLINOIS 62401
 (217) 342-6668 / info@f-w.com

USER NAME = rslaley	DESIGNED - RWS	REVISED .
PLOT SCALE = 24x0.00" = 1/8"	DRAWN - RJT	REVISED .
PLOT DATE = 2/8/2022	CHECKED - ERB	REVISED .
8:50:53 AM	DATE - 02/09/22	REVISED .

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORM SEWER PLAN AND PROFILE
F.A.U. 7945 - EAST 9TH STREET
 SCALE: 1"=20'(H)/1"=2'(V) SHEET 1 OF 2 SHEETS STA. 9+00.00 TO STA. 14+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	21
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	



D:\016016000_Standard Project Pen.tbl
 DOTSSS_RD_PDF_FL_MOKO.dwg
 FILE: J:\2016\1601600000 - Pana 9th St Improvements\04_Drawing\DWG\CAD_Sheet\0616016000-050 P&P Storm Sewer.dwg

685.74	685.58	685.78	685.78	685.88	685.98	686.01	686.18	686.32	686.38	686.62	686.57	686.86	686.80	687.08	687.08	687.20	687.40	687.35	687.66	687.53	687.73	687.72	687.79	687.85	687.85	687.97	688.04	688.08	688.01	687.83	687.58	687.25	686.91
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Farnsworth GROUP 400 WEST JEFFERSON AVENUE EFFINGHAM, ILLINOIS 62401 (217) 342-6688 / info@f-w.com	USER NAME = rstaley DESIGNED - RWS DRAWN - RJT CHECKED - ERB PLOT DATE = 2/8/2022 8:50:53 AM	REVISED . REVISED . REVISED . REVISED .	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM SEWER PLAN AND PROFILE F.A.U. 7945 - EAST 9TH STREET	F.A.U. RTE. = 7945 SECTION = 16-00053-00-RS COUNTY = CHRISTIAN CONTRACT NO. = 93774	TOTAL SHEETS = 45 SHEET NO. = 22
	PLOT SCALE = 24x30.00" = 1/8"	DATE = 02/09/22			SCALE: 1"=20'(H)/1"=2'(V) SHEET 2 OF 2 SHEETS STA. 14+00.00 TO STA. 17+00.00	
	ILLINOIS FED. AID PROJECT					



SEE PLAN AND PROFILE SHEET FOR PR ROW LOCATION

SEE PAVEMENT MARKING PLAN

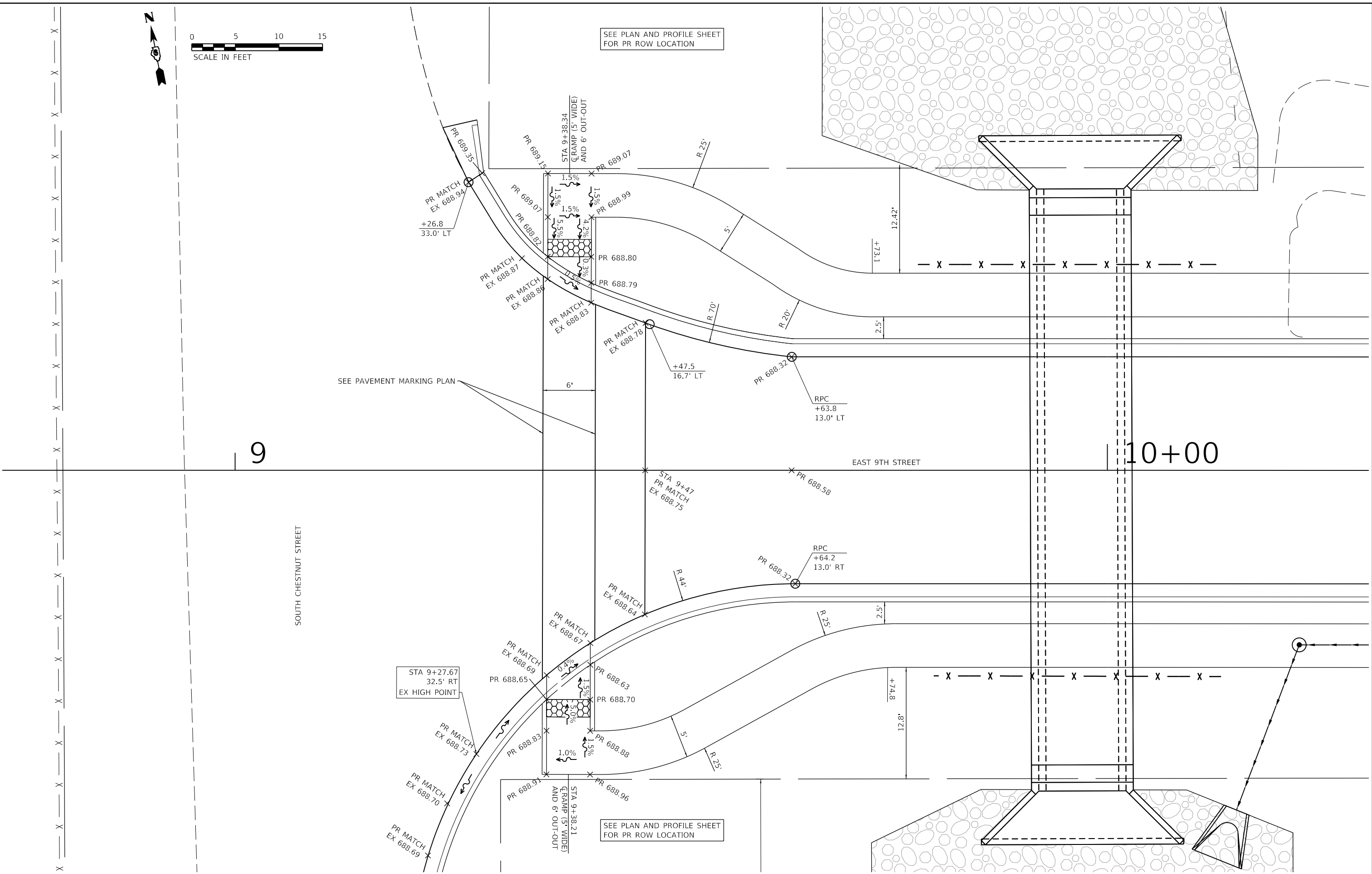
SEE PLAN AND PROFILE SHEET FOR PR ROW LOCATION

9

10+00

SOUTH CHESTNUT STREET

EAST 9TH STREET



USER NAME = rslatky	DESIGNED - RWS	REVISED
	DRAWN - RJT	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - ERB	REVISED
PLOT DATE = 2/8/2022	DATE - 02/09/22	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL
F.A.U. 7945 - EAST 9TH STREET

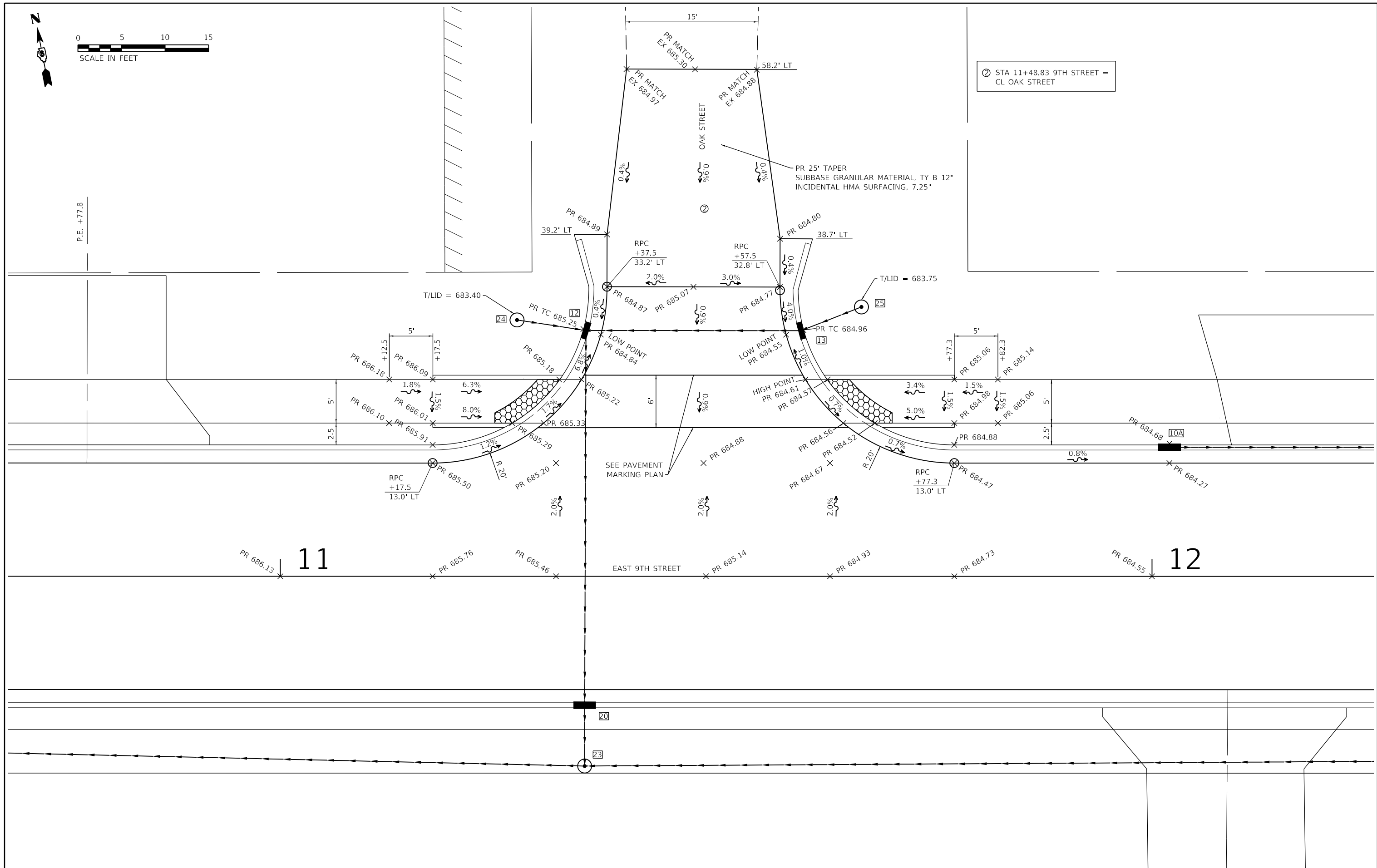
SCALE: 1" = 5' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	23
CONTRACT NO.			93774	
ILLINOIS FED. AID PROJECT				



P.E. +77.8

② STA 11+48.83 9TH STREET = CL OAK STREET



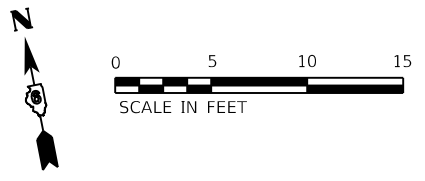
USER NAME = rslakey	DESIGNED - RWS	REVISED
	DRAWN - RJT	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - ERB	REVISED
PLOT DATE = 2/8/2022 8:50:55 AM	DATE - 02/09/22	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL
F.A.U. 7945 - EAST 9TH STREET

SCALE: 1" = 5' SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	24
CONTRACT NO.			93774	
ILLINOIS FED. AID PROJECT				



③ STA 13+55.10 9TH STREET =
CL HOSPITAL ENTRANCE

④ STA 13+58.77 9TH STREET =
CL ALLEY

PR 684.79

13

14

EAST 9TH STREET

STA 13+55.10
PR 685.22

COMMERCIAL HOSPITAL ENTRANCE (C.E.)

PR 684.53

RPC
+27.7

RPC
+82.7

PR 684.75

PR 684.79

PR 685.16

PR 685.24

T/LID = 685.29

T/LID = 685.74

PR 684.86

PR 684.87

P.E. +12.3

EX 684.72

R 10'

2.6%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

+37.7
25.0' RT

PR 685.37

PR 685.25

PR 685.33

PR 685.39

+37.7
32.0' RT

+40.1
34.0' RT

30'

+72.5
25.0' RT

PR 685.32

PR 685.36

PR 685.39

PR 685.37

+72.5
32.0' RT

+70.1
34.0' RT

10'

5'

3'

5'

10.9'

55'

10.9'

5'

3'

5'

4'

5'

5'

5'

5'

5'

R 10'

0.7%

4.2%

4.6%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

R 10'

6%

2.8%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

1.5%

PR 685.17

PR 685.20

PR 685.24

PR 685.28

PR 685.31

PR 685.34

PR 685.37

PR 685.40

PR 685.43

PR 685.46

PR 685.49

PR 685.52

PR 685.55

PR 685.58

PR 685.61

PR 685.64

PR 685.67

PR 685.70

PR 685.73

PR 685.76

PR 685.79

PR 685.82

PR 685.85

PR 685.88

PR 685.91

PR 685.94

PR 685.97

PR 686.00

PR 686.03

PR 686.06

PR 686.09

PR 686.12

PR 686.15

PR 686.18

PR 686.21

PR 686.24

PR 686.27

PR 686.30

PR 686.33

PR 686.36

PR 686.39

PR 686.42

PR 686.45

PR 686.48

PR 686.51

PR 686.54



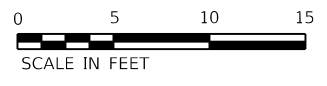
USER NAME = rslaley	DESIGNED - RWS	REVISED
	DRAWN - RJT	REVISED
PLOT SCALE = 24,000' / ft.	CHECKED - ERB	REVISED
PLOT DATE = 2/8/2022 8:50:56 AM	DATE - 02/09/22	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRIMARY HOSPITAL ENTRANCE DETAIL
F.A.U. 7945 - EAST 9TH STREET

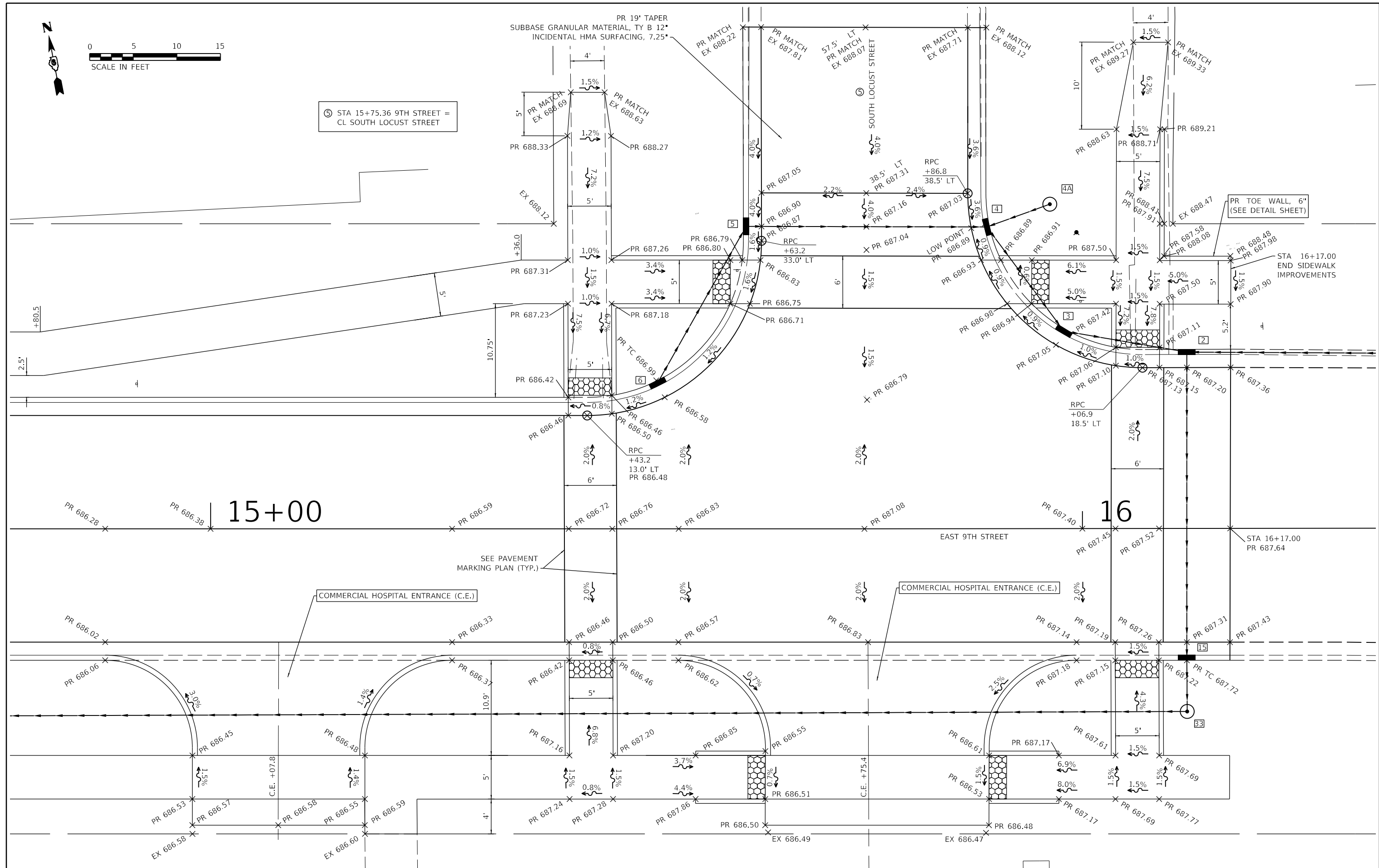
SCALE: 1" = 5' SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.U. RTE. 7945	SECTION 16-00053-00-RS	COUNTY CHRISTIAN	TOTAL SHEETS 45	SHEET NO. 25
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	



⑤ STA 15+75.36 9TH STREET = CL SOUTH LOCUST STREET

PR 19' TAPER
SUBBASE GRANULAR MATERIAL, TY B 12"
INCIDENTAL HMA SURFACING, 7.25"



USER NAME = rslakey
PLOT SCALE = 24,000' / ft.
PLOT DATE = 2/8/2022

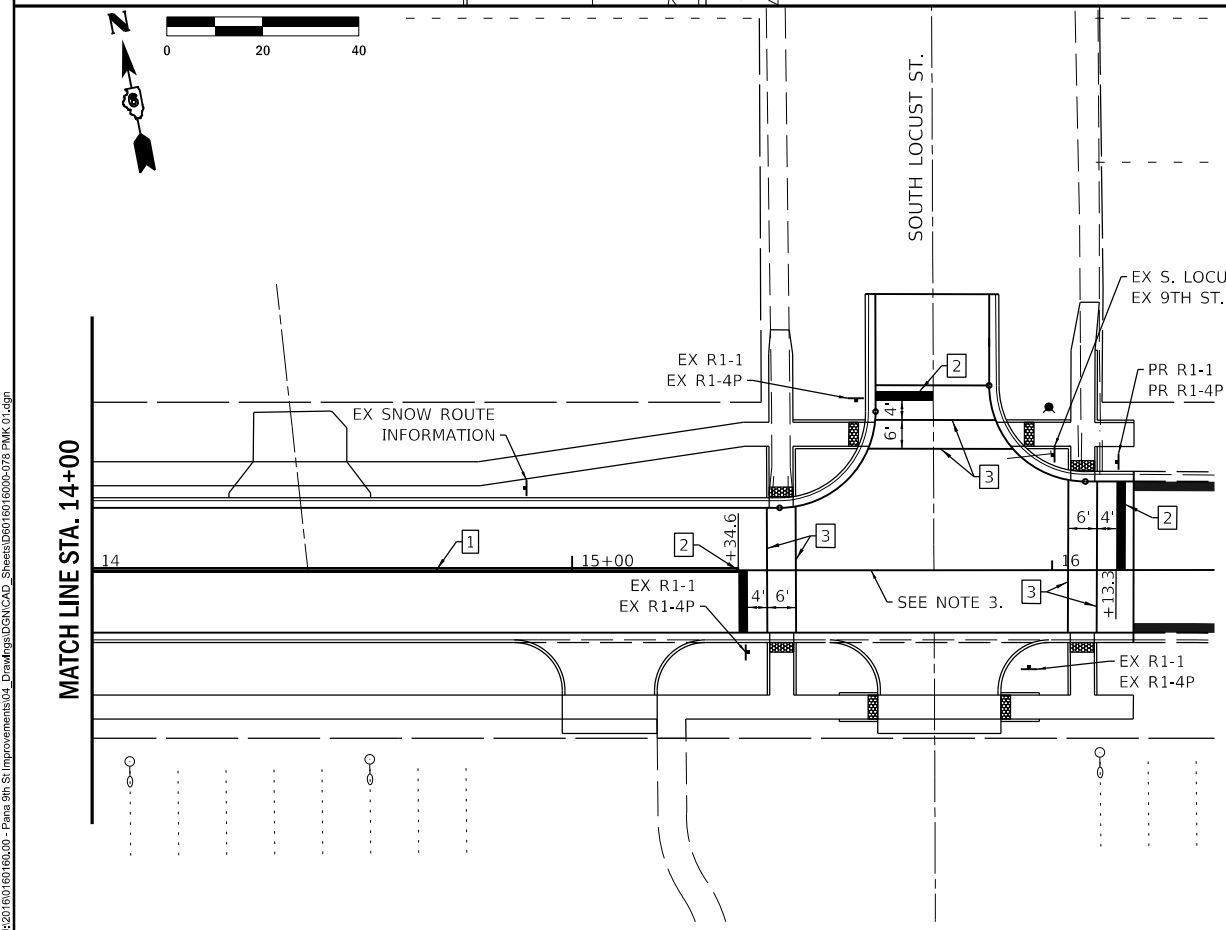
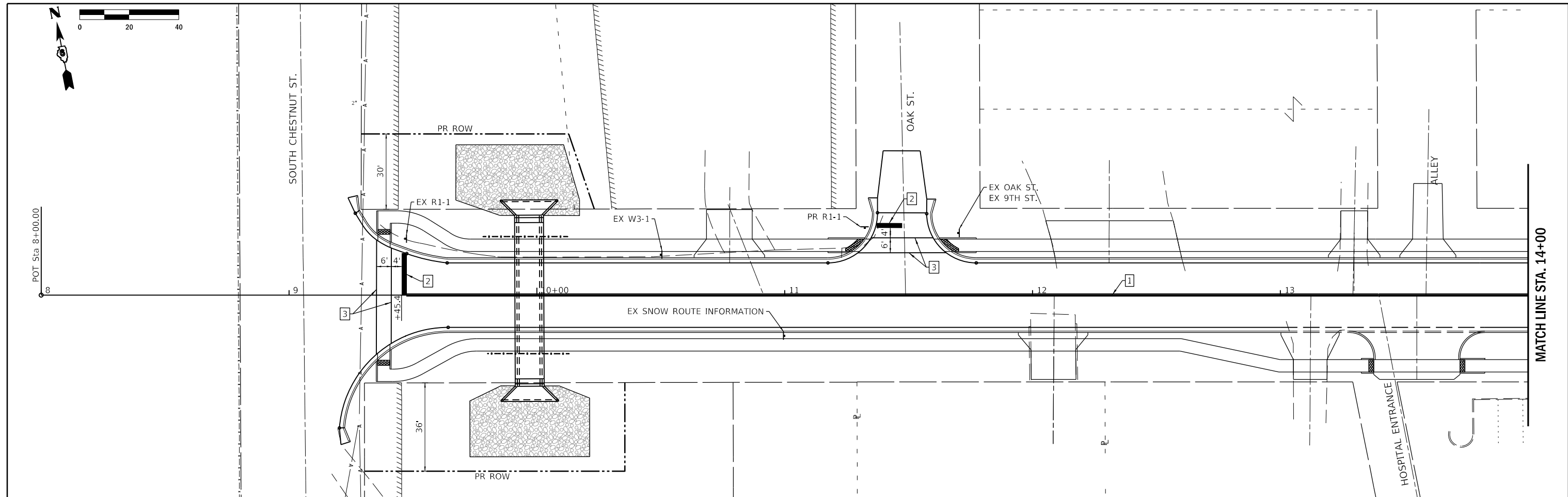
DESIGNED - RWS
DRAWN - RJT
CHECKED - ERB
DATE - 02/09/22

REVISED
REVISED
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL	
F.A.U. 7945 - EAST 9TH STREET	
SCALE: 1" = 5'	
SHEET 4 OF 4 SHEETS	
STA. TO STA.	

F.A.U. RTE. 7945	SECTION 16-00053-00-RS	COUNTY CHRISTIAN	TOTAL SHEETS 45	SHEET NO. 26
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	



TYPICAL PAVEMENT MARKING LEGEND

1	4" DOUBLE (YELLOW)
2	24" STOP BAR (WHITE)
3	6" CROSSWALK (WHITE)

- NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE MODIFIED URETHANE ON THE PCC PAVEMENT.
 2. ALL PAVEMENT MARKING LINES SHALL BE PLACED IN ACCORDANCE WITH THE MUTCD MANUAL, LATEST EDITION.
 3. DOUBLE (YELLOW) LINE AT CENTERLINE SHALL STOP AT STOP BARS AND NOT CROSS THROUGH CROSSWALKS OR THROUGH INTERSECTION AT SOUTH LOCUST STREET.
 4. SIGNS SHOWN AS "PR" INDICATE A NEW SIGN PANEL WITH TELESCOPING STEEL SIGN SUPPORT. SIGNS SHOWN AS "EX" INDICATE SIGNS WHERE THE PANEL WILL BE REMOVED AND RELOCATED WITH NEW TELESCOPING STEEL SIGN SUPPORT AT LOCATIONS SHOWN IN THE PLANS.

PEN TABLE: D6016016000_Standard Project Penubli
 DRIVER: F:\Projects\16-00053-00-RS\Drawings\DCN\CAD_Sheets\6016016000-075_PMK_01.dgn
 SHEET: 7945 - 16-00053-00-RS - Plans 301 St Improvements\04_Drawing\DCN\CAD_Sheets\6016016000-075_PMK_01.dgn

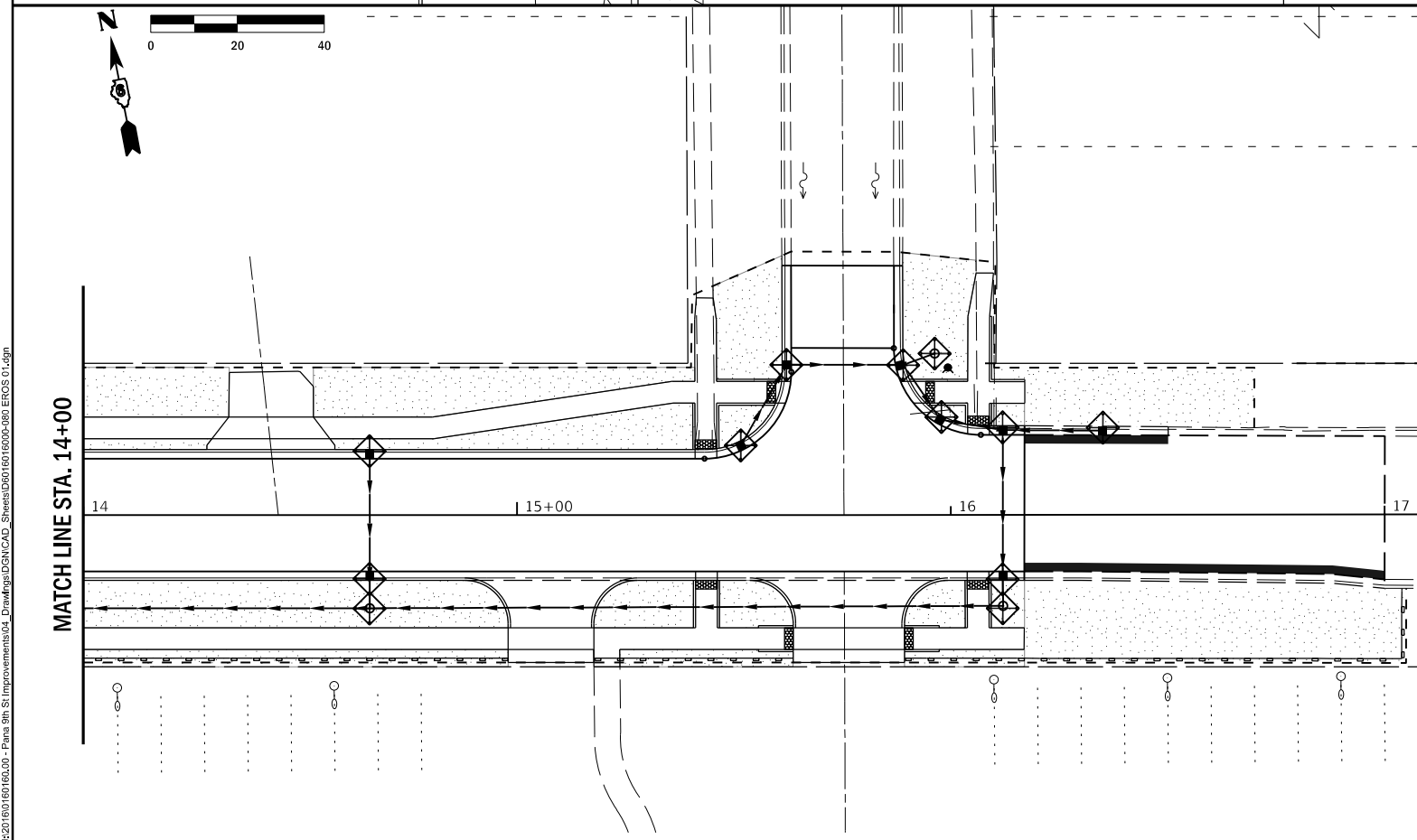
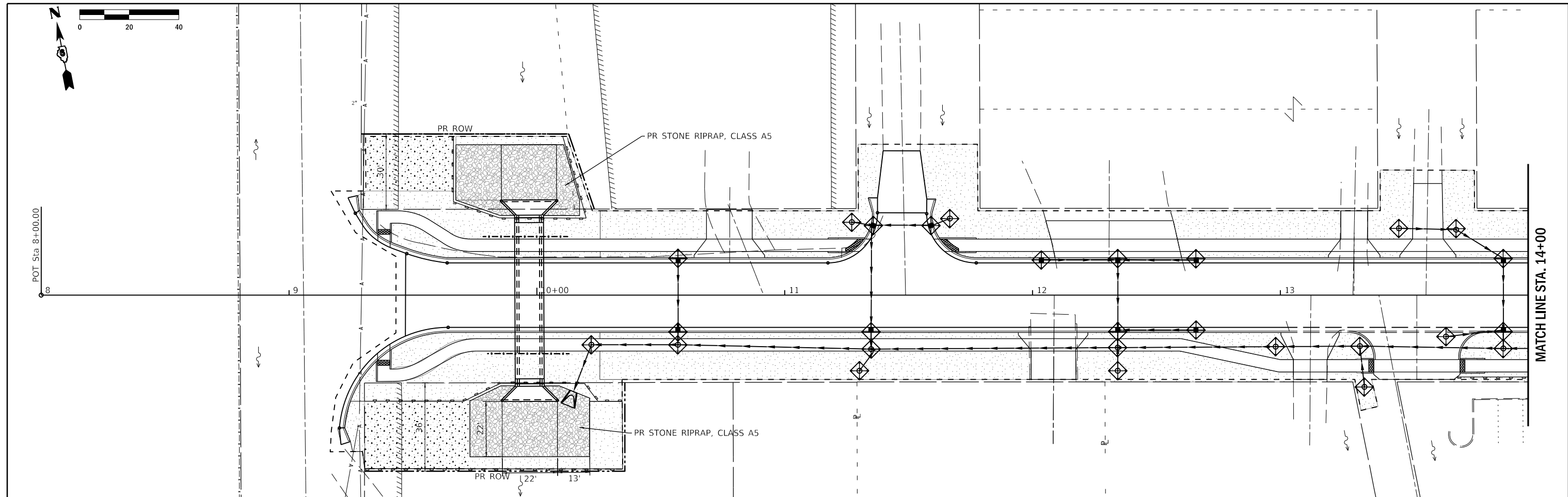
Farnsworth GROUP
 400 WEST JEFFERSON AVENUE
 EFFINGHAM, ILLINOIS 62401
 (217) 342-6668 / info@f-w.com

USER NAME = rslakey	DESIGNED - RWS	REVISED .
PLOT SCALE = 24x0.00" = 1" / 16'	DRAWN - RJT	REVISED .
PLOT DATE = 2/8/2022 8:50:58 AM	CHECKED - ERB	REVISED .
	DATE - 02/09/22	REVISED .

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNAGE PLAN		
F.A.U. 7945 - EAST 9TH STREET		
SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS	STA. 9+47.00 TO STA. 17+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	28
CONTRACT NO.			93774	
ILLINOIS			FED. AID PROJECT	



LEGEND

- PERIMETER EROSION BARRIER
- LIMITS OF CONSTRUCTION
- SODDING
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- STONE RIPRAP A5 WITH BEDDING STONE AND FILTER FABRIC
- SEEDING CLASS 1 AND MULCH METHOD 2

PEN TABLE: D6016016000_Standard Project Penubli
 DRIVER: 400 WEST JEFFERSON AVENUE
 SHEET: 7945_16-00053-00-RS - Plans 30 St Improvements04_Drawing02(CAD_Sheet)06016000-080_EROS 01.dgn
 FILE: 8/20/2022 10:00:00 AM

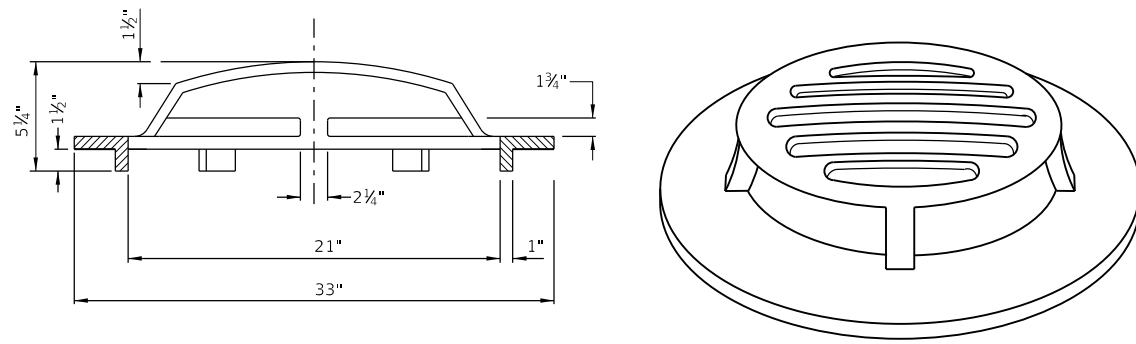
Farnsworth GROUP
 400 WEST JEFFERSON AVENUE
 EFFINGHAM, ILLINOIS 62401
 (217) 342-6668 / info@f-w.com

USER NAME = rslakey	DESIGNED - RWS	REVISED .
	DRAWN - RJT	REVISED .
PLOT SCALE = 24x0.00" = 1" / ft.	CHECKED - ERB	REVISED .
PLOT DATE = 2/8/2022 8:50:59 AM	DATE - 02/09/22	REVISED .

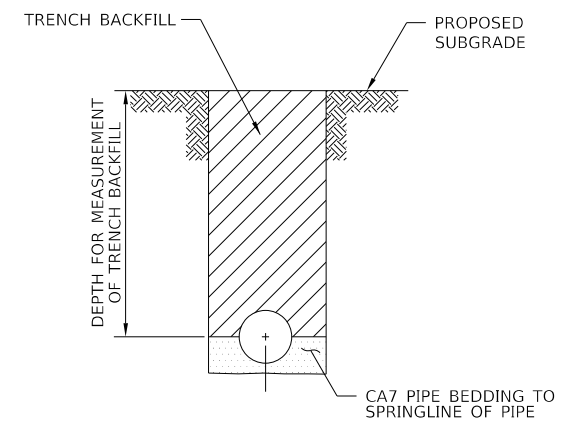
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN F.A.U. 7945 - EAST 9TH STREET		
SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS	STA. 9+47.00 TO STA. 17+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	29
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		

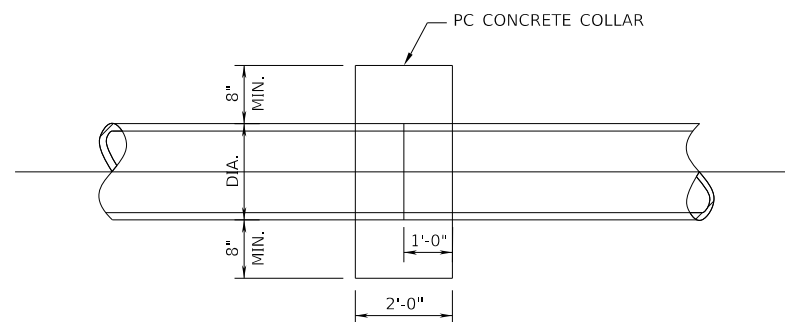


DETAIL SPECIAL GRATE



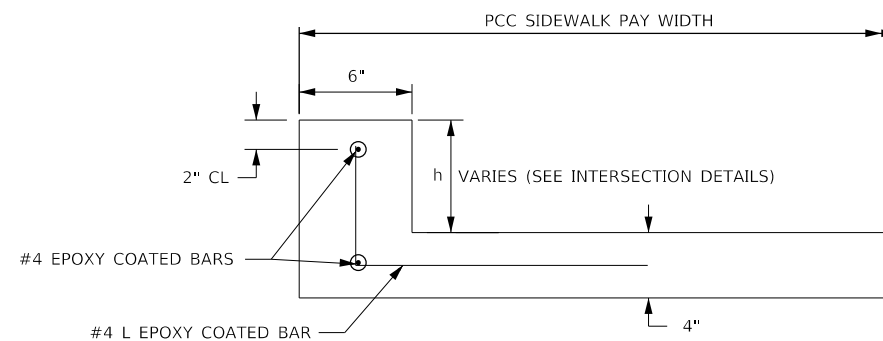
TRENCH BACKFILL

N.T.S.

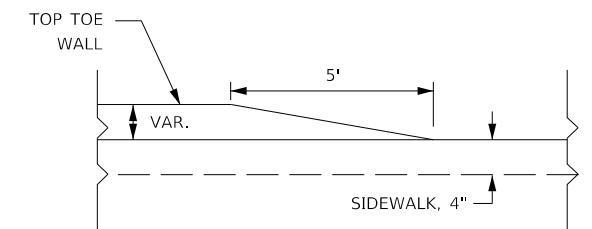


CONCRETE COLLAR

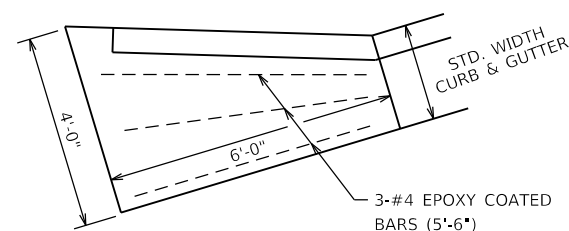
N.T.S.



SECTION A-A

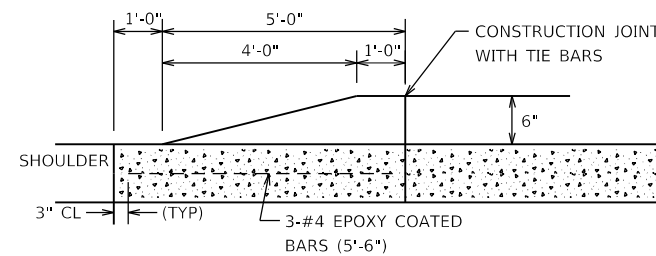


SECTION B-B

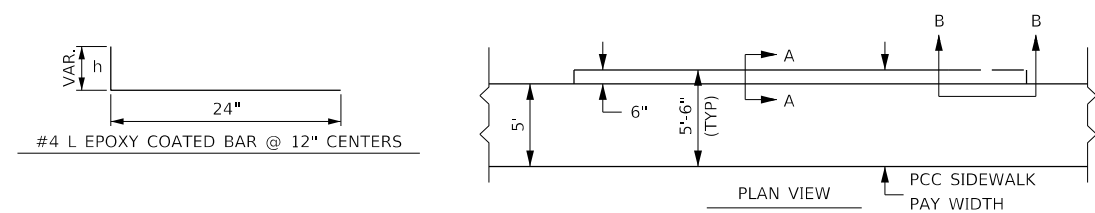


CONCRETE CURB AND GUTTER OUTLET SPECIAL

N.T.S.



SIDE VIEW



PLAN VIEW

NOTE:
SIDEWALK TOE WALL AND ALL #4 EPOXY COATED BARS (L BARS AND TIE BARS) SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF PCC SIDEWALK 4". THE AREA TO BE MEASURED AND PAID FOR PCC SIDEWALK 4" SHALL INCLUDE THE PLAN VIEW AREA OF TOP OF TOE WALL AND TOP OF SIDEWALK.

P.C. CONCRETE SIDEWALK WITH TOE WALL

Benchmarks: BM #157, Railroad spike, North face power pole, located at 9th & Chestnut intersection in the South East corner. Station 9+27.7, 49.6' RT, Elevation = 690.49.
 BM #155, Top operating nut of fire hydrant located in North East corner of 9th & Locust. Station 15+94.3, 27.2' LT, Elevation = 689.84.

Existing Structure: The existing structure is a single barrel, 6' span by 6' rise cast-in-place box culvert. The culvert barrel is 31' long. The end sections of the culvert consist of horizontal cantilever wing walls parallel to the roadway. The depth of fill on the culvert is less than 2'. There is no skew. The structure is to be replaced during road closure.

No Salvage.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, 8th Edition

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS:

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS:

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Reinforcement)
 $f_y = 60,000$ psi (Reinforcement)

INDEX OF SHEETS

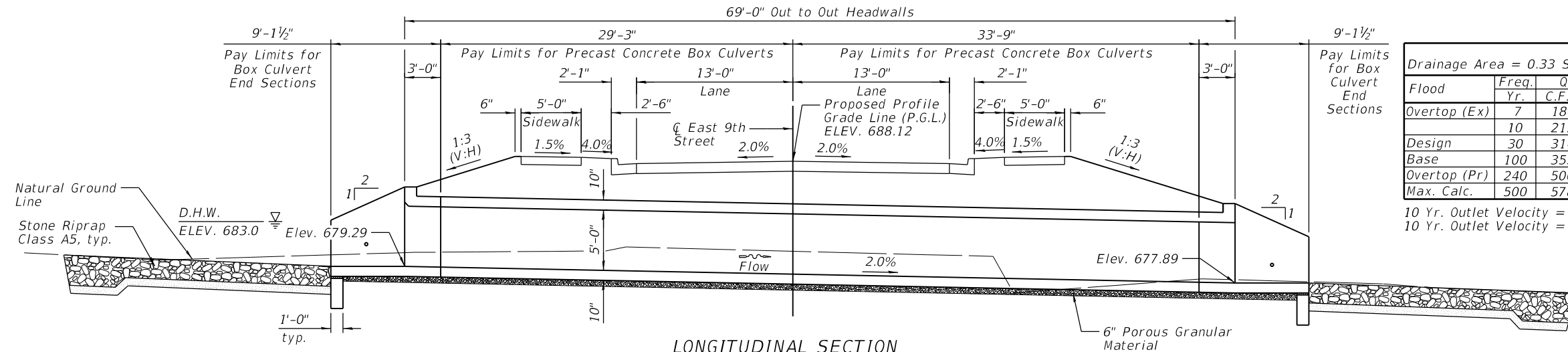
SHEET NO.	TITLE
1	GENERAL PLAN AND ELEVATION
2	GENERAL DATA
3-4	PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS
5	SOIL BORING LOGS

WATERWAY INFORMATION

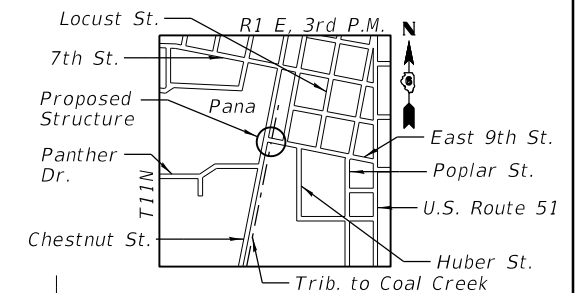
Drainage Area = 0.33 Sq. Mi. Existing Overtopping Elev. 684.8 @ Sta. 12+45
 Proposed Overtopping Elev. 684.8 @ Sta. 12+45

Flood Yr.	Freq.	Q	Opening	Sq. Ft.	Nat. Head - Ft.	Prop. Headwater El.	Headwater El.
	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.
Overtop (Ex)	7	180	7	--	682.1	3.4	--
	10	212	9	34	682.4	3.2	685.6
Design	30	314	12	40	683.0	2.5	685.5
Base	100	353	15	45	683.5	2.0	685.5
Overtop (Pr)	240	500	--	49	684.0	--	685.5
Max. Calc.	500	578	18	50	684.1	1.1	685.2

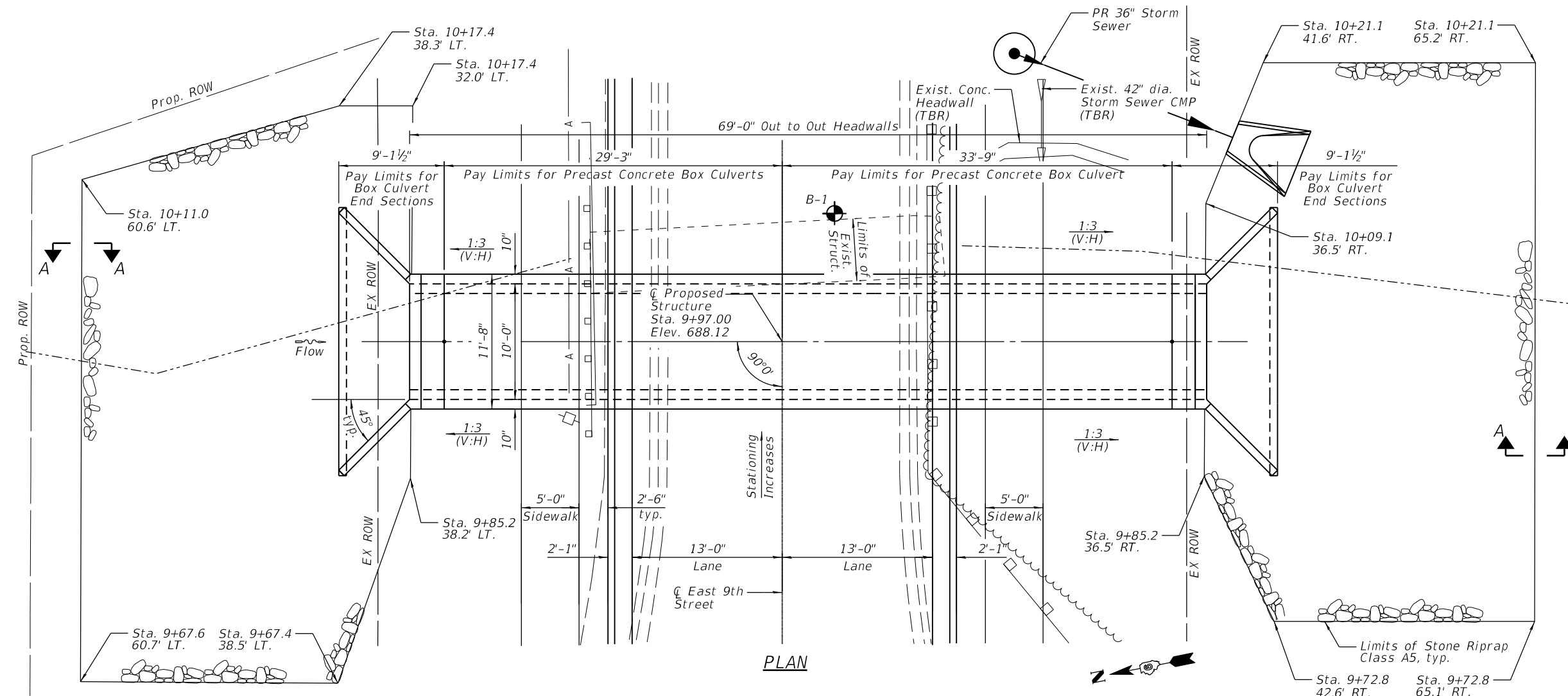
10 Yr. Outlet Velocity = 13.6 ft./sec. (Existing)
 10 Yr. Outlet Velocity = 12.6 ft./sec. (Proposed)



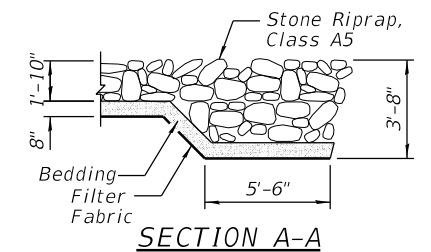
LONGITUDINAL SECTION
 Looking East @ C of Culvert



LOCATION SKETCH



PLAN



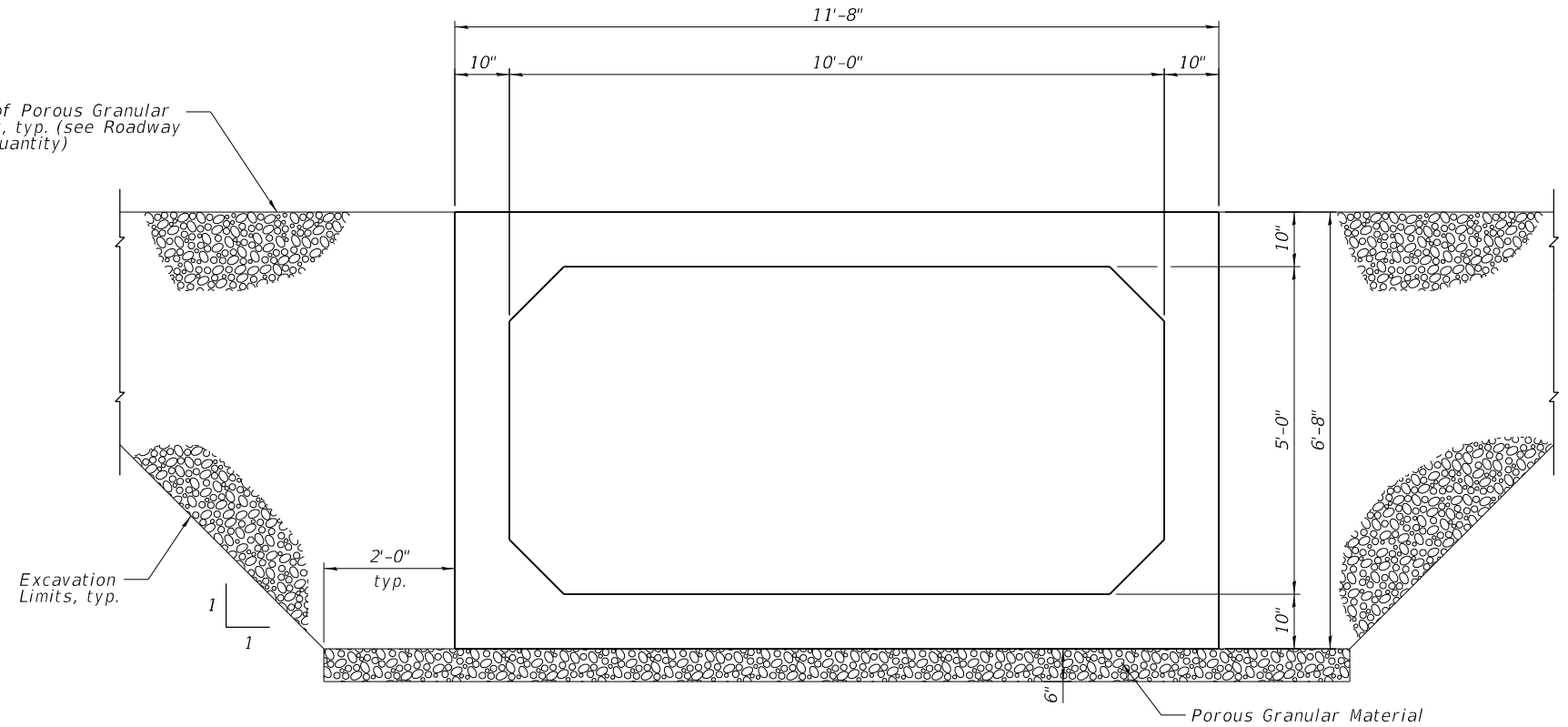
SECTION A-A

GENERAL PLAN AND ELEVATION
EAST 9TH STREET OVER
TRIBUTARY TO COAL CREEK
F.A.U. ROUTE 7945
SECTION 16-00053-00-PV
CHRISTIAN COUNTY
STATION 9+97.00
STRUCTURE NO. 011-F005

GENERAL NOTES:

- 1.) The design fill height for this box is ± 3.6 ft. The precast box culvert sections shall conform to the requirements of ASTM C1557 and Section 540 of the Standard Specifications.
- 2.) Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
- 3.) Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
- 4.) Precast Concrete Box Culverts and Box Culvert End Sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the Standard Specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.
- 5.) Excavation required for Porous Granular Embankment shall not be measured or paid for separately but shall be included in the cost for Porous Granular Embankment. If suitable, some of this excavation may be utilized for roadway embankment.

Pay limits of Porous Granular Embankment, typ. (see Roadway Plans for quantity)

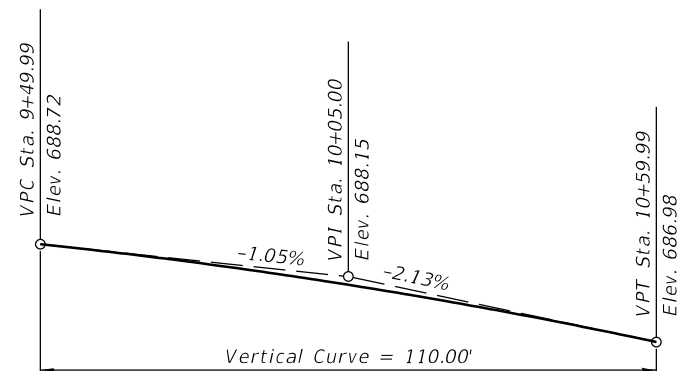


TOTAL BILL OF MATERIALS

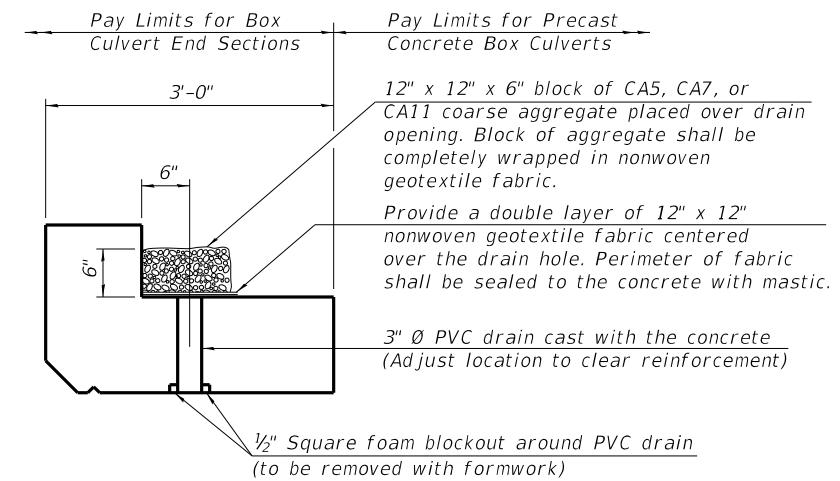
ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	297
Filter Fabric	Sq. Yd.	297
Removal of Existing Structures	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Culvert 10' x 5'	Foot	63

SECTION THRU BARREL

(Looking North)

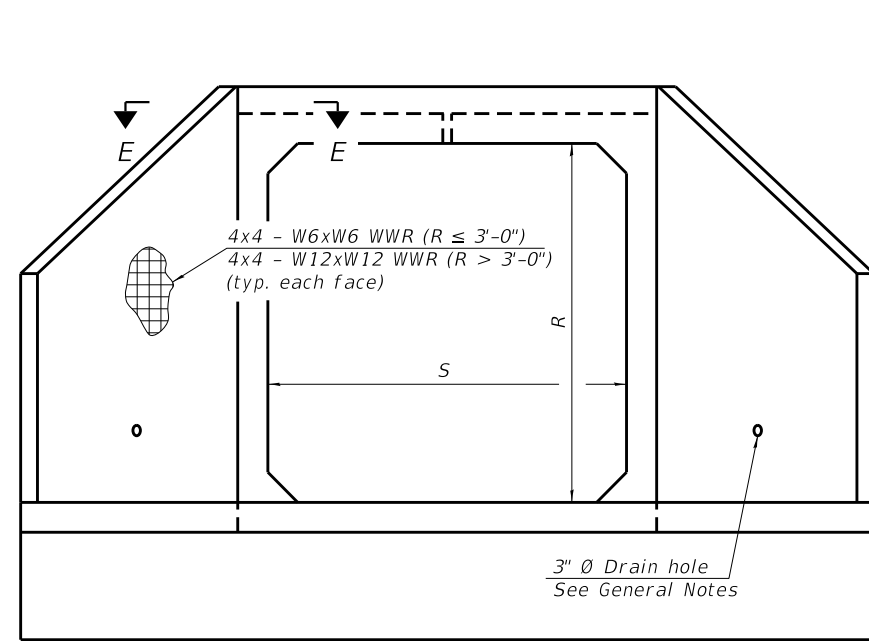


PROFILE GRADE
(Along Centerline Roadway)

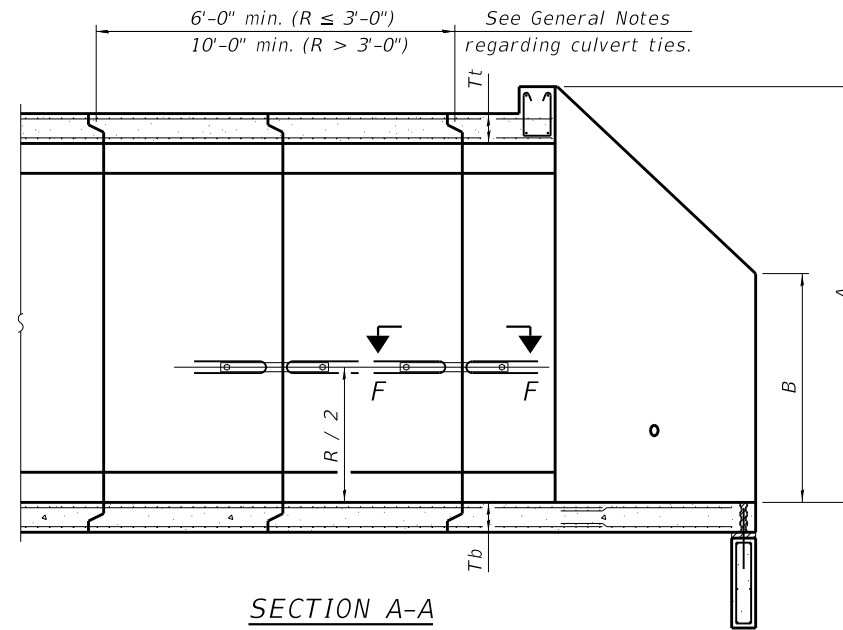


DRAIN DETAIL

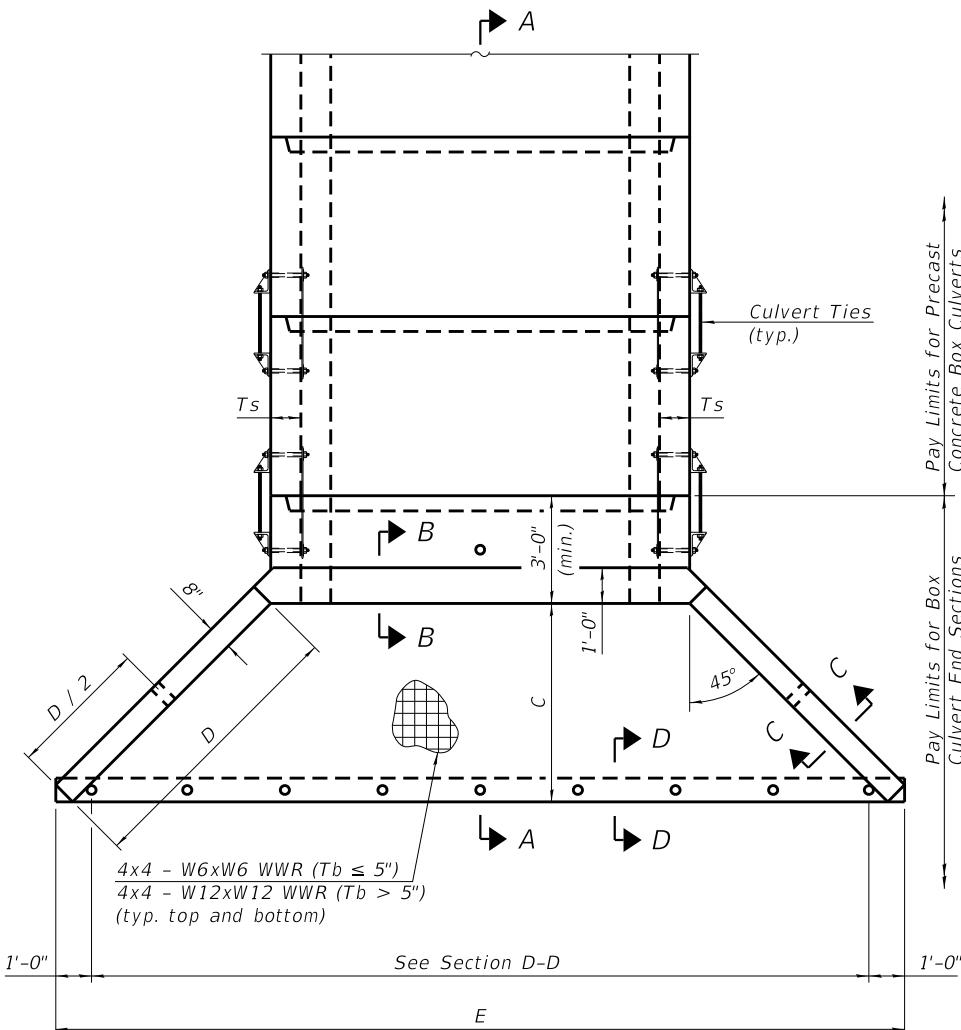
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



END VIEW



SECTION A-A



PLAN

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 5/8"	4'-1"	10'-4 5/8"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 7/8"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 5/8"	5'-6"	12'-4 5/8"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 7/8"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 1/2"	2'-2 1/2"	2'-11 3/8"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 1/2"	3'-10"	11'-2 3/8"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 1/2"	2'-8 1/2"	3'-11 3/8"	5'-7"	13'-8 1/8"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 1/2"	5'-3"	13'-2 3/8"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 1/2"	3'-2 1/2"	4'-11 3/8"	7'-0"	15'-8 1/8"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 3/8"	6'-8"	15'-2 1/2"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	3'-10"	4'-0"	12'-7 1/4"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	14'-10 1/8"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 1/4"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	16'-10 1/8"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 1/4"	6'-9"	16'-5 1/8"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	18'-10 1/8"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 1/4"	8'-2"	18'-5 1/8"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 3/8"	4'-1"	13'-10 3/8"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	16'-0 1/8"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 3/8"	5'-6"	15'-10 3/8"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	18'-0 1/8"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 3/4"	6'-11"	17'-10 3/4"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	20'-0 1/8"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 3/4"	8'-4"	19'-10 3/4"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 3/4"	9'-9"	21'-10 3/4"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	17'-2 1/8"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	19'-2 1/8"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	21'-2 1/8"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	23'-2 1/4"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	18'-2 1/8"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	20'-2 1/8"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	22'-2 1/8"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	24'-2 1/4"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0 3/4"	4'-4"	17'-6 1/8"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0 3/4"	5'-9"	19'-6 1/8"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0 3/4"	7'-2"	21'-6 1/8"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 3/8"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 1/8"	9'-11"	25'-5 5/8"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 1/2"	4'-5"	18'-10 1/4"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 1/2"	5'-10"	20'-10 1/4"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1 1/2"	7'-3"	22'-10 3/8"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	24'-10 3/8"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 1/2"	10'-1"	26'-10 3/8"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2 7/8"	4'-7"	20'-3 1/8"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2 7/8"	6'-0"	22'-3 1/8"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 1/4"	7'-4"	24'-1 3/4"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2 1/4"	8'-9"	26'-1 3/4"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 1/4"	10'-2"	28'-1 1/8"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 5/8"	4'-8"	21'-6 1/2"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 5/8"	6'-1"	23'-6 1/2"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 5/8"	7'-6"	25'-6 3/8"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3 5/8"	8'-11"	27'-6 3/8"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 5/8"	10'-4"	29'-6 5/8"	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

(Sheet 1 of 2)

SCB-AES

2-17-2017



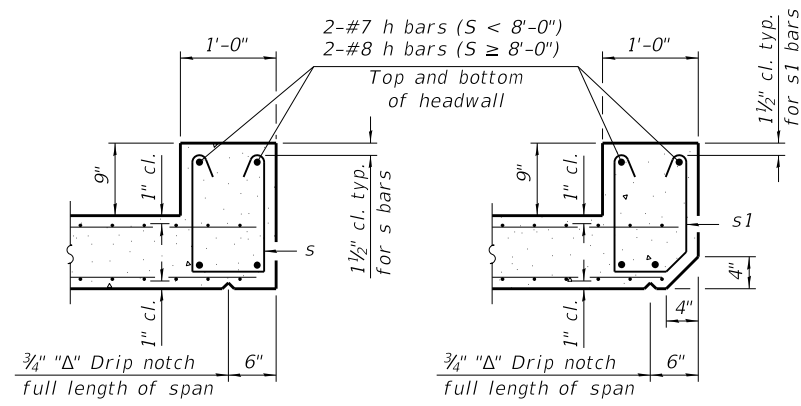
USER NAME = marmstrong	DESIGNED - IIP	REVISED
PLOT SCALE = 2,000' / in.	DRAWN - MRA	REVISED
PLOT DATE = 12/15/2021	CHECKED - JCZ	REVISED
8:58:56 AM	DATE - 02/09/22	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS
STRUCTURE NO. 011-F005

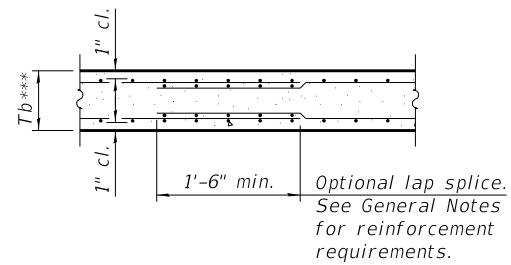
SCALE: NO SCALE SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.U. RTE. 7945	SECTION 16-00053-00-RS	COUNTY CHRISTIAN	TOTAL SHEETS 45	SHEET NO. 33
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	



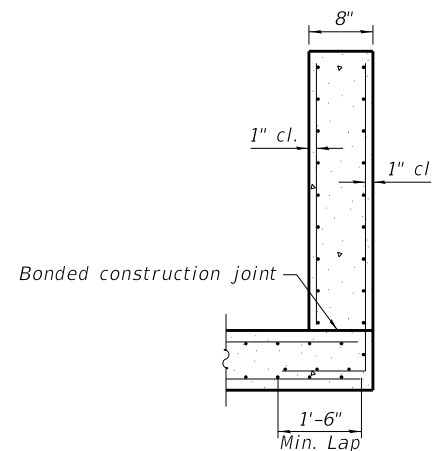
SECTION B-B
(Top slab at downstream end)

SECTION B-B
(Top slab at upstream end)

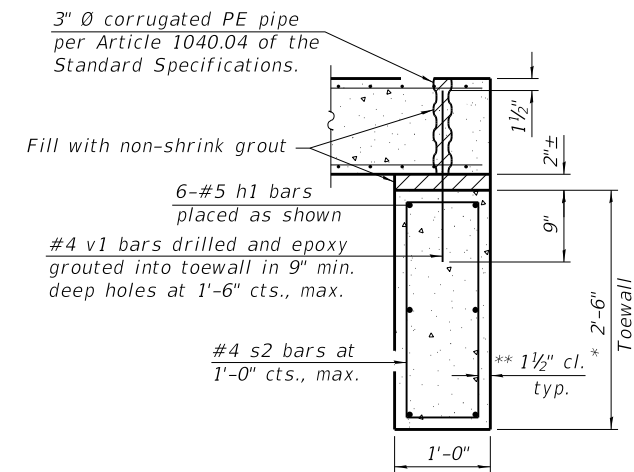


SECTION B-B
(Bottom Slab)

*** This dimension shall be increased by 2" for CIP construction.



SECTION C-C



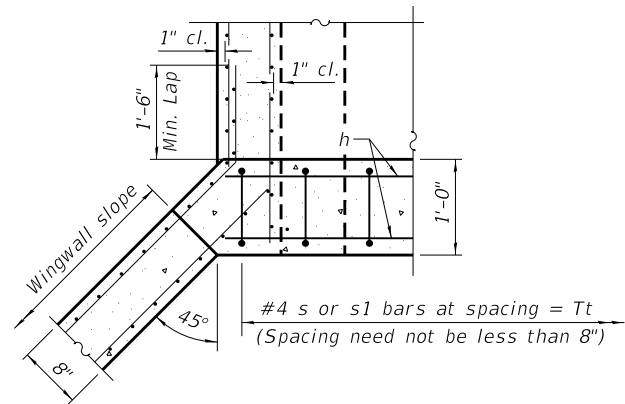
SECTION D-D

TOEWALL CONSTRUCTION SEQUENCE

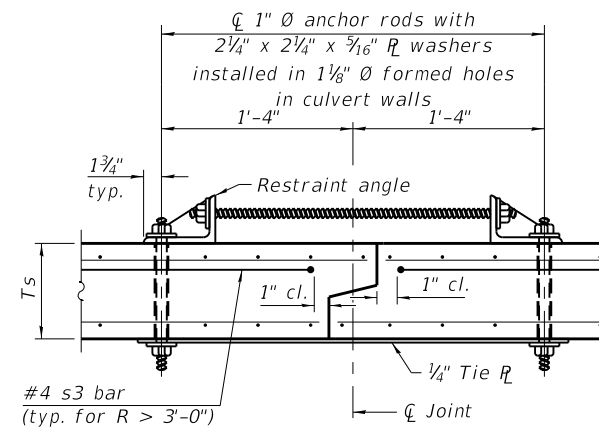
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



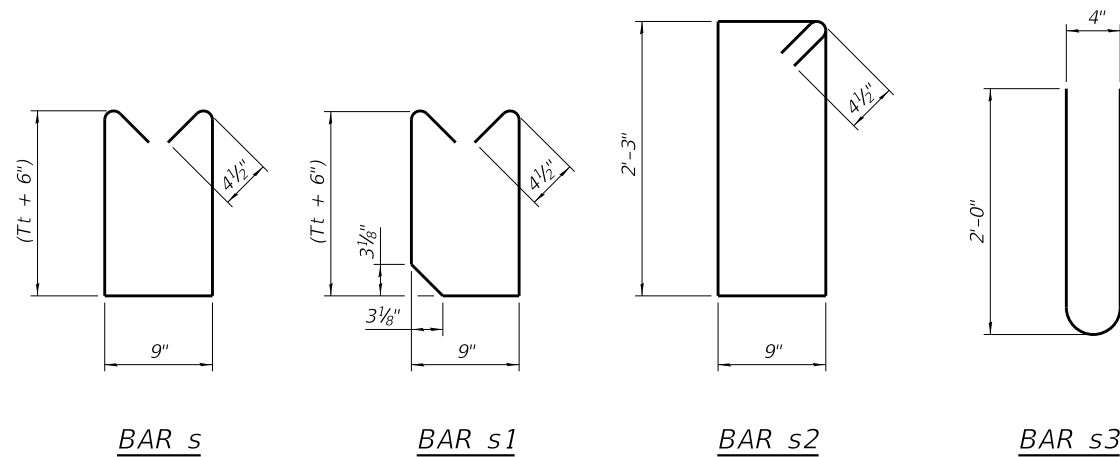
SECTION E-E



SECTION F-F
(Showing culvert tie details)

Notes:

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

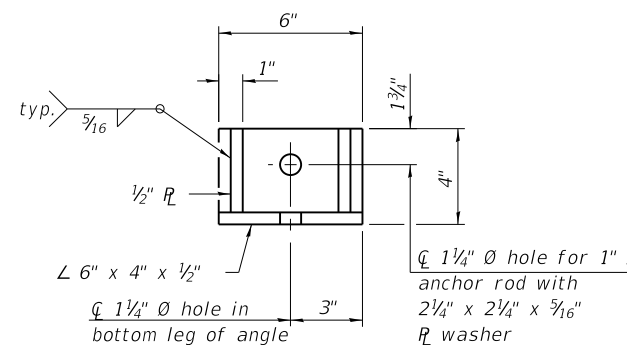


BAR s

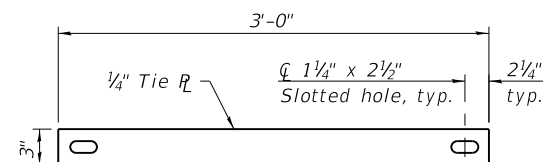
BAR s1

BAR s2

BAR s3



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

(Sheet 2 of 2)

SCB-AES

2-17-2017

Farnsworth GROUP
400 WEST JEFFERSON AVENUE
EFFINGHAM, ILLINOIS 62401
(217) 342-5688 / info@f-w.com

USER NAME = marmstrong
DESIGNED - IIP
DRAWN - MRA
CHECKED - JCZ
DATE - 02/09/22
PLOT SCALE = 2,000' / in.
PLOT DATE = 12/15/2021
8:58:58 AM

DESIGNED - IIP
DRAWN - MRA
CHECKED - JCZ
DATE - 02/09/22
REVISED
REVISED
REVISED
REVISED

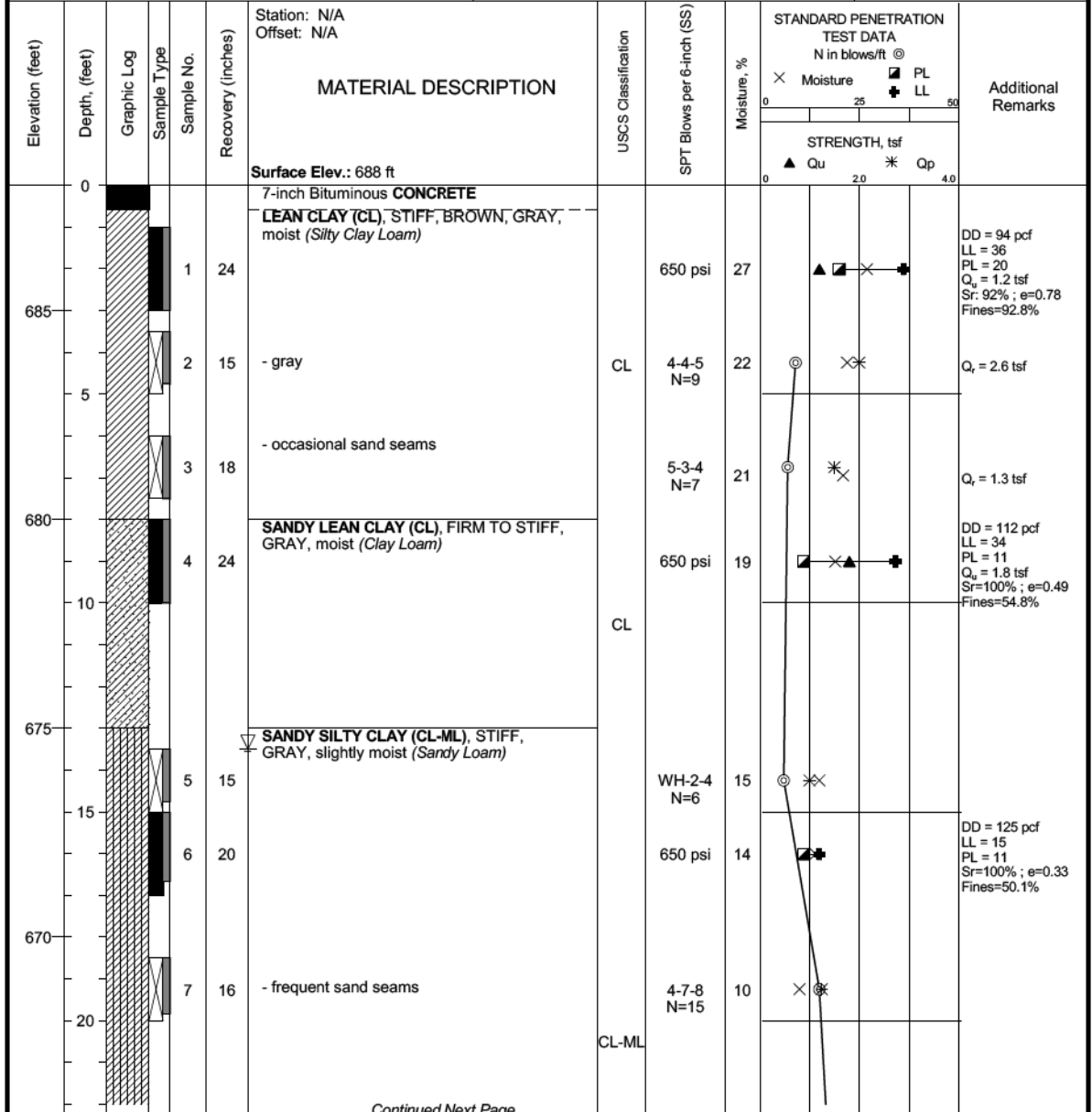
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS
STRUCTURE NO. 011-F005**

SCALE: NO SCALE SHEET 4 OF 5 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	34
CONTRACT NO.			93774	
ILLINOIS FED. AID PROJECT				

PSI Job No.: 0026269-1	Drilling Method: Hollow Stem Auger	WATER LEVELS	
Project: Pavement Improvements & Culvert Replacement	Sampling Method: Shelby Tube/Split-Spoon	While Drilling 13.5 feet	
Location: E. 9th Street (S. Chestnut St. & Fair Ave) Pana, Christian County, IL	Hammer Type: Automatic Hammer	Upon Completion 25 feet	
	Boring Location: See Boring/Coring Location Plan	Delay N/A	



Completion Depth: 40.0 ft

Date Boring Started: 12/10/18

Date Boring Completed: 12/10/18

Logged By: R. Tomlin

Drilling Contractor: PSI, Inc.

Sample Types:
 Auger Cutting
 Split-Spoon
 Rock Core

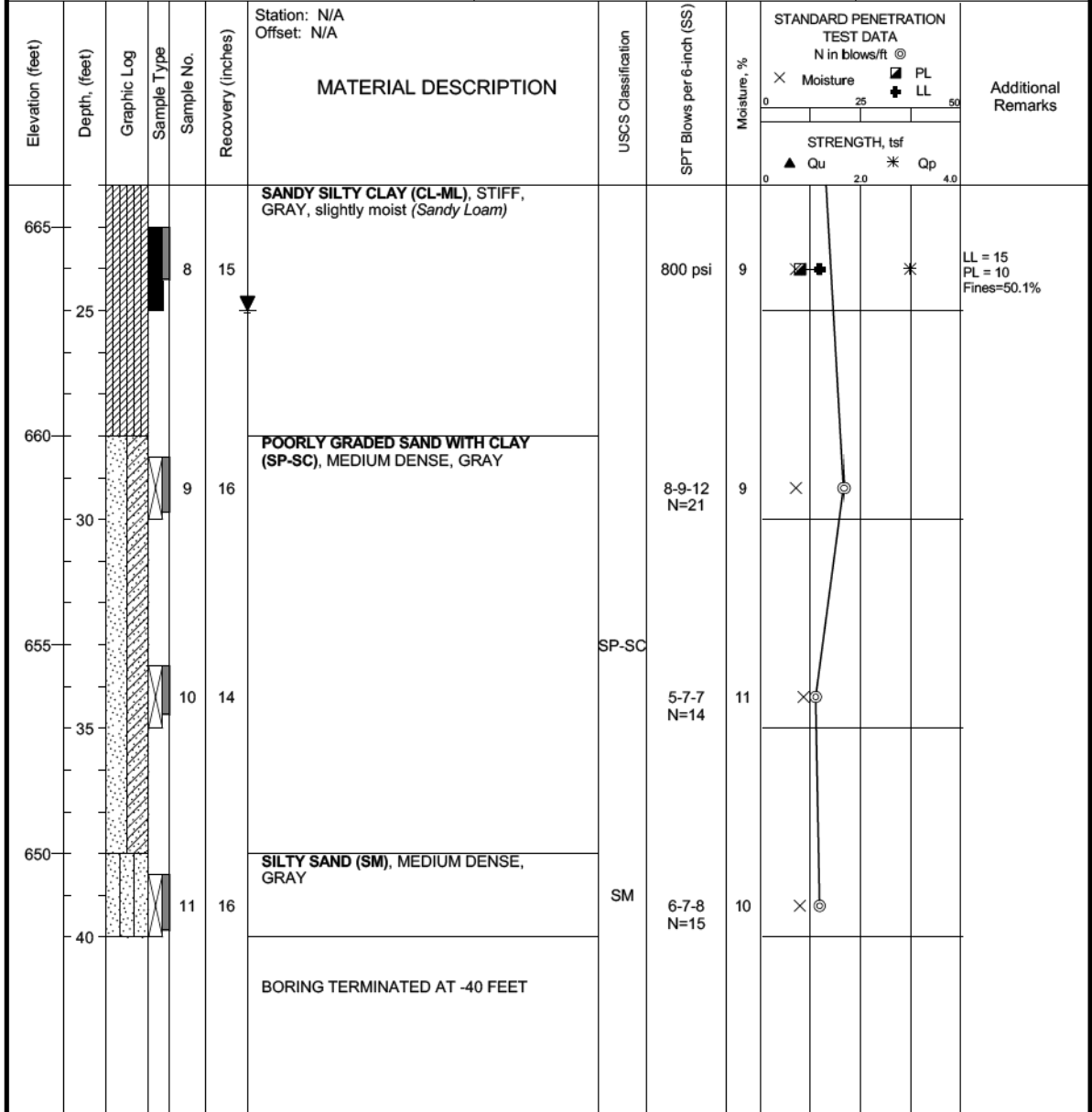
Shelby Tube
 Hand Auger
 Texas Cone

Latitude:
 Longitude:
 Drill Rig: CME-55
 Remarks: Surface elevations were estimated from Plan & Profile Drawings provided by FWG

Continued Next Page

The stratification lines represent approximate boundaries. The transition may be gradual.

PSI Job No.: 0026269-1	Drilling Method: Hollow Stem Auger	WATER LEVELS	
Project: Pavement Improvements & Culvert Replacement	Sampling Method: Shelby Tube/Split-Spoon	While Drilling 13.5 feet	
Location: E. 9th Street (S. Chestnut St. & Fair Ave) Pana, Christian County, IL	Hammer Type: Automatic Hammer	Upon Completion 25 feet	
	Boring Location: See Boring/Coring Location Plan	Delay N/A	



Completion Depth: 40.0 ft

Date Boring Started: 12/10/18

Date Boring Completed: 12/10/18

Logged By: R. Tomlin

Drilling Contractor: PSI, Inc.

Sample Types:
 Auger Cutting
 Split-Spoon
 Rock Core

Shelby Tube
 Hand Auger
 Texas Cone

Latitude:
 Longitude:
 Drill Rig: CME-55
 Remarks: Surface elevations were estimated from Plan & Profile Drawings provided by FWG

The stratification lines represent approximate boundaries. The transition may be gradual.

PEN TABLE: D6016016000_Standard Project Pen.tbl
 DRIVER: C:\WORK\JOHNSON\JL
 SHEET: FILE: I:\2016\16016000-Paris_300_S1\Improvements\04_Drawing\DWG\CAD_Sheet\6016016000-301_XSEC.01.dgn



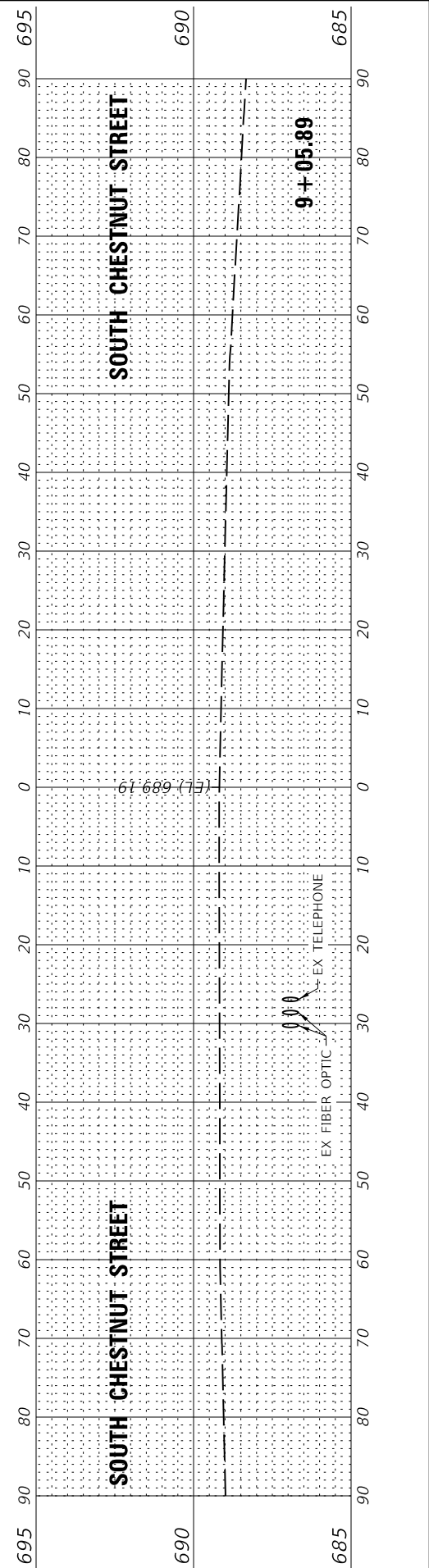
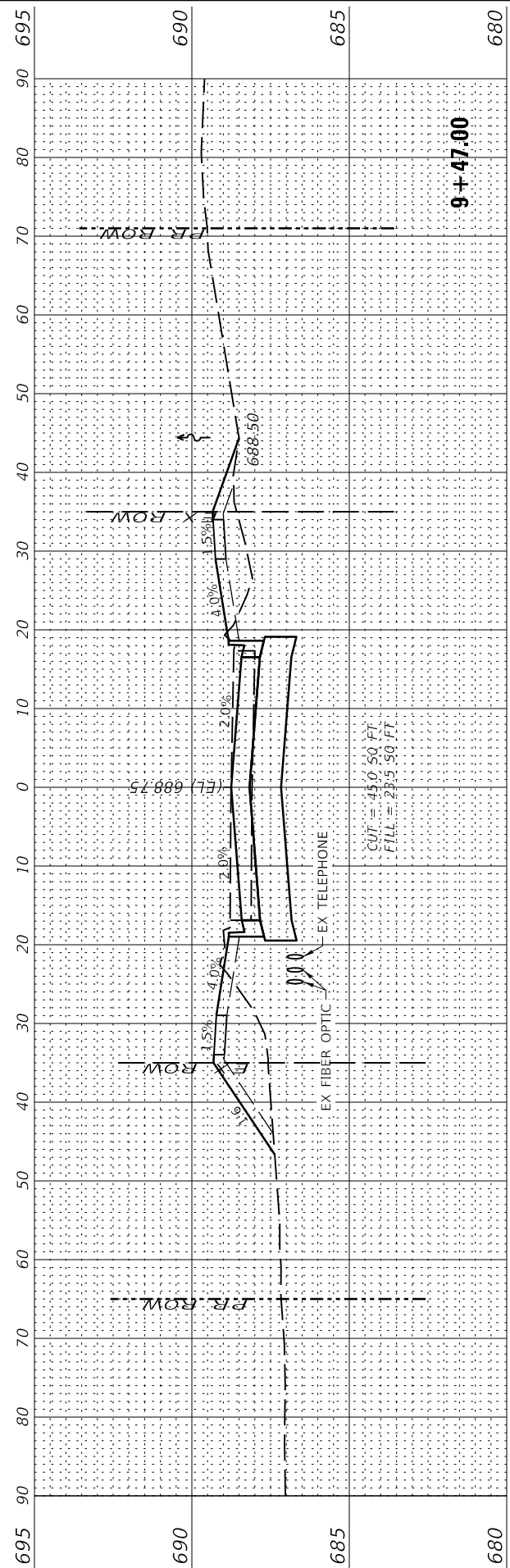
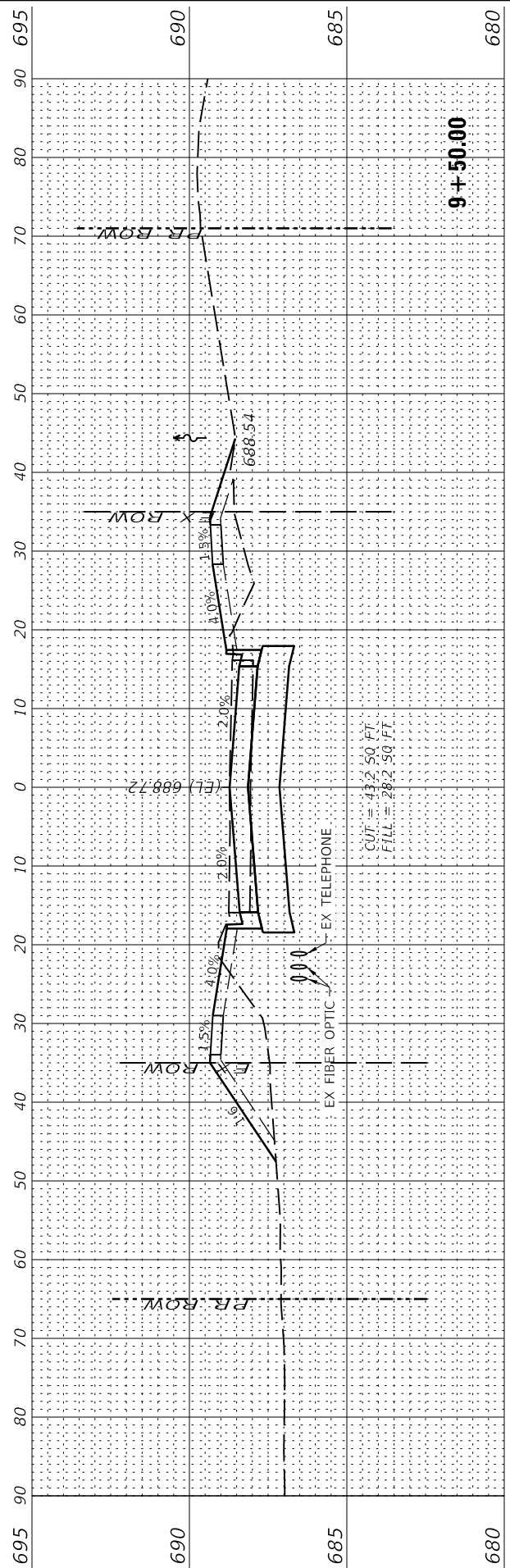
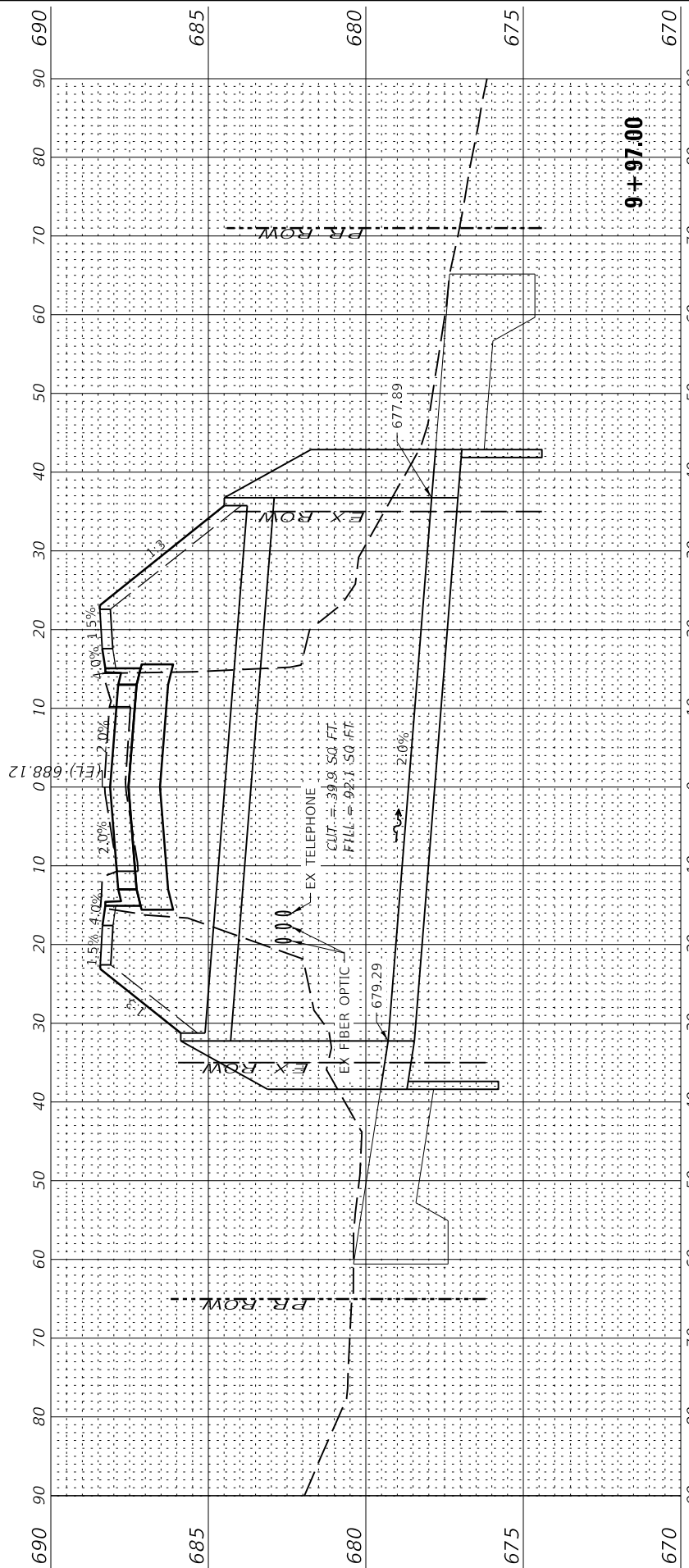
USER NAME = rslakey	DESIGNED - RWS	REVISED .
PLOT SCALE = 24x30.00" / ft.	DRAWN - RJT	REVISED .
PLOT DATE = 2/8/2022	CHECKED - ERB	REVISED .
8:51:05 AM	DATE - 02/09/22	REVISED .

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.U. 7945 - EAST 9TH STREET

SCALE: 1"=10'(H)/1"=2.5'(V) SHEET 1 OF 10 SHEETS STA. 9+05.89 TO STA. 9+97.00

F.A.U. RTE. 7945	SECTION 16-00053-00-RS	COUNTY CHRISTIAN	TOTAL SHEETS 45	SHEET NO. 36
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	



PEN TABLE: D:\016016000_Standard Project Pen.tbl
 DRIVER: S:\Users\jstacy\OneDrive\Documents\16-00053-RS\Drawings\DCN\CAD_Sheets\016016000-302_XSEC.02.dgn
 SHEET: 16-00053-RS-302_XSEC.02.dgn



USER NAME = rslacy
 PLOT SCALE = 24x0.00" = 1/8"
 PLOT DATE = 2/8/2022 8:51:06 AM

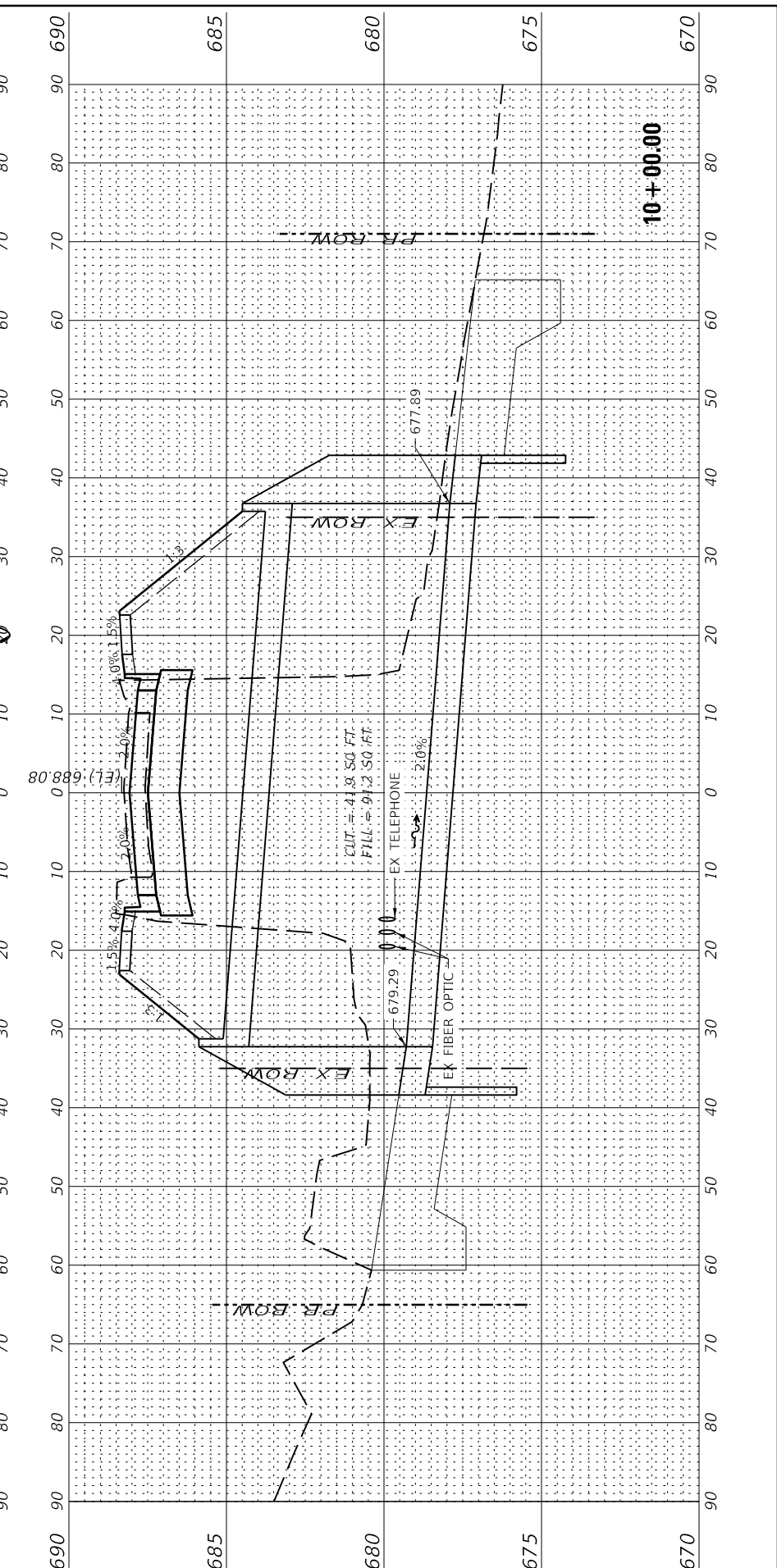
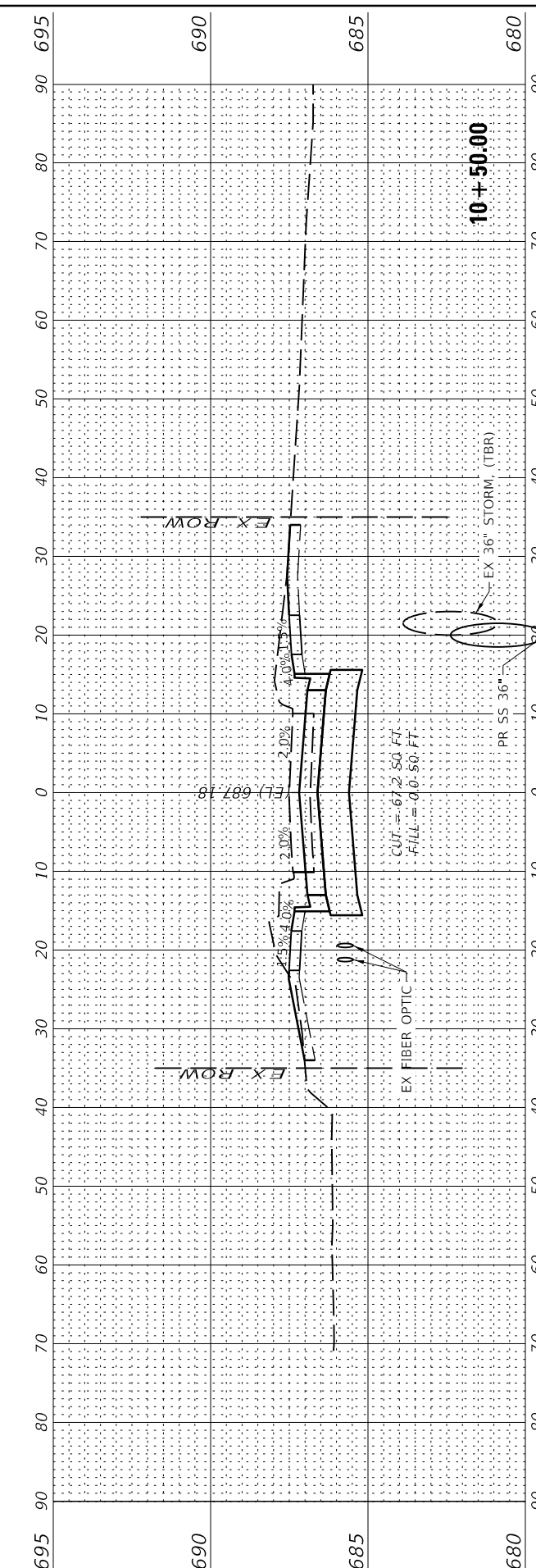
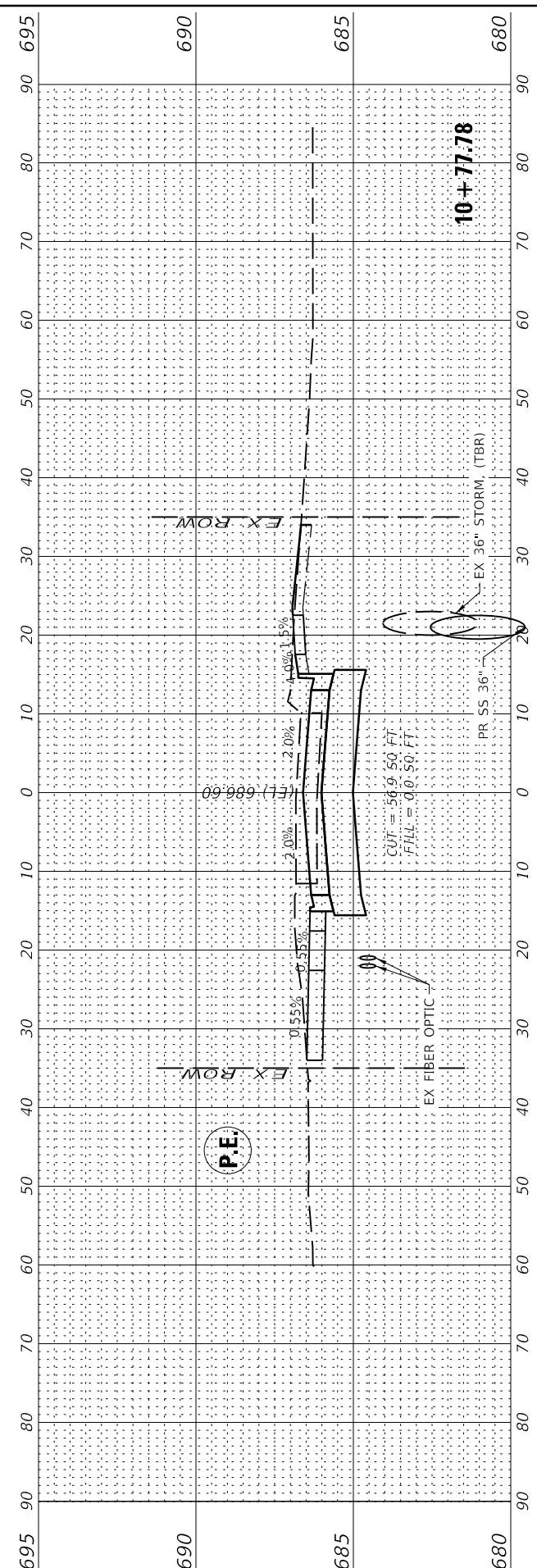
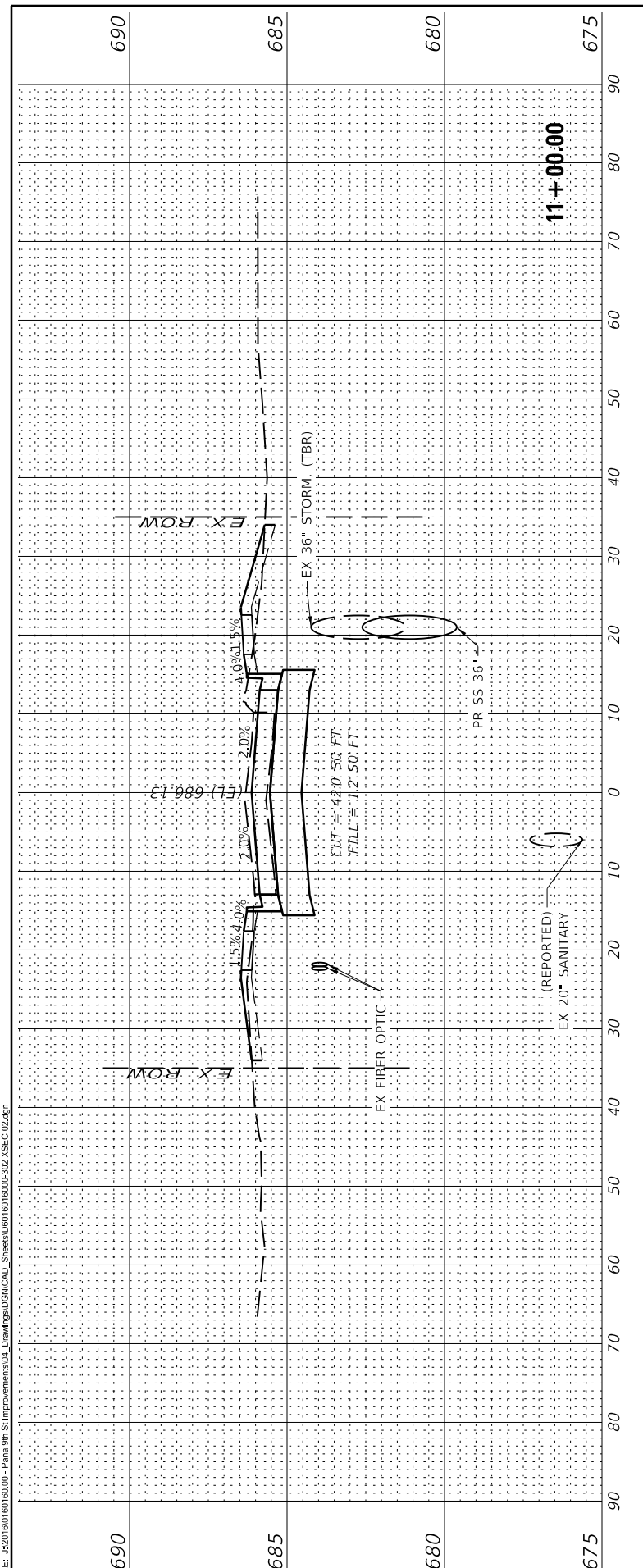
DESIGNED - RWS
 DRAWN - RJT
 CHECKED - ERB
 DATE - 02/09/22

REVISED .
 REVISED .
 REVISED .
 REVISED .

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
F.A.U. 7945 - EAST 9TH STREET
 SCALE: 1"=10'(H)/1"=2.5'(V) SHEET 2 OF 10 SHEETS STA. 10+00.00 TO STA. 11+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	37
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		



PEN TABLE: D6016016000_Standard Project Penubli
 DRIVER: J. W. JOHNSON
 SHEET: 8/20/2022 10:00:00 - Plans 300 St Improvements 04 Drawings\DWG\CAD_Sheets\6016016000-303_XSEC.03.dgn

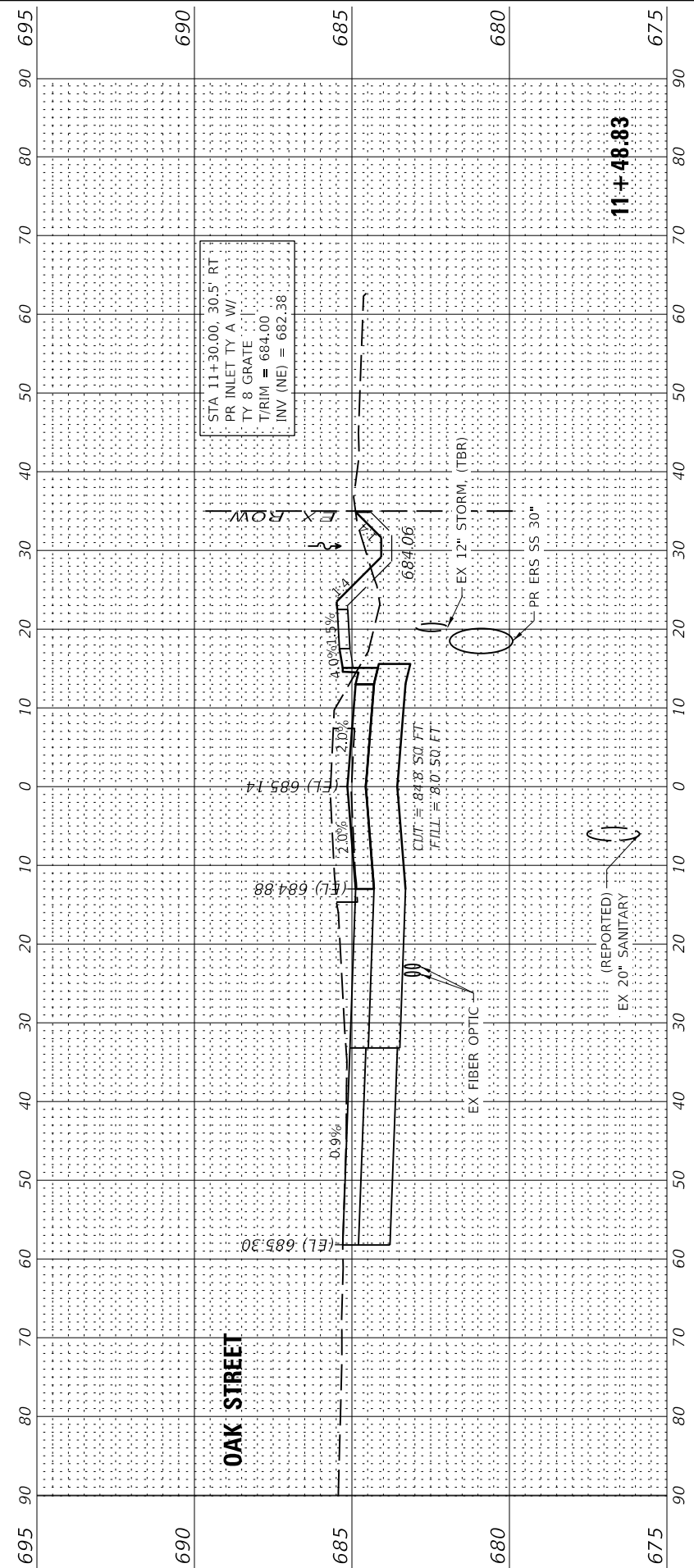
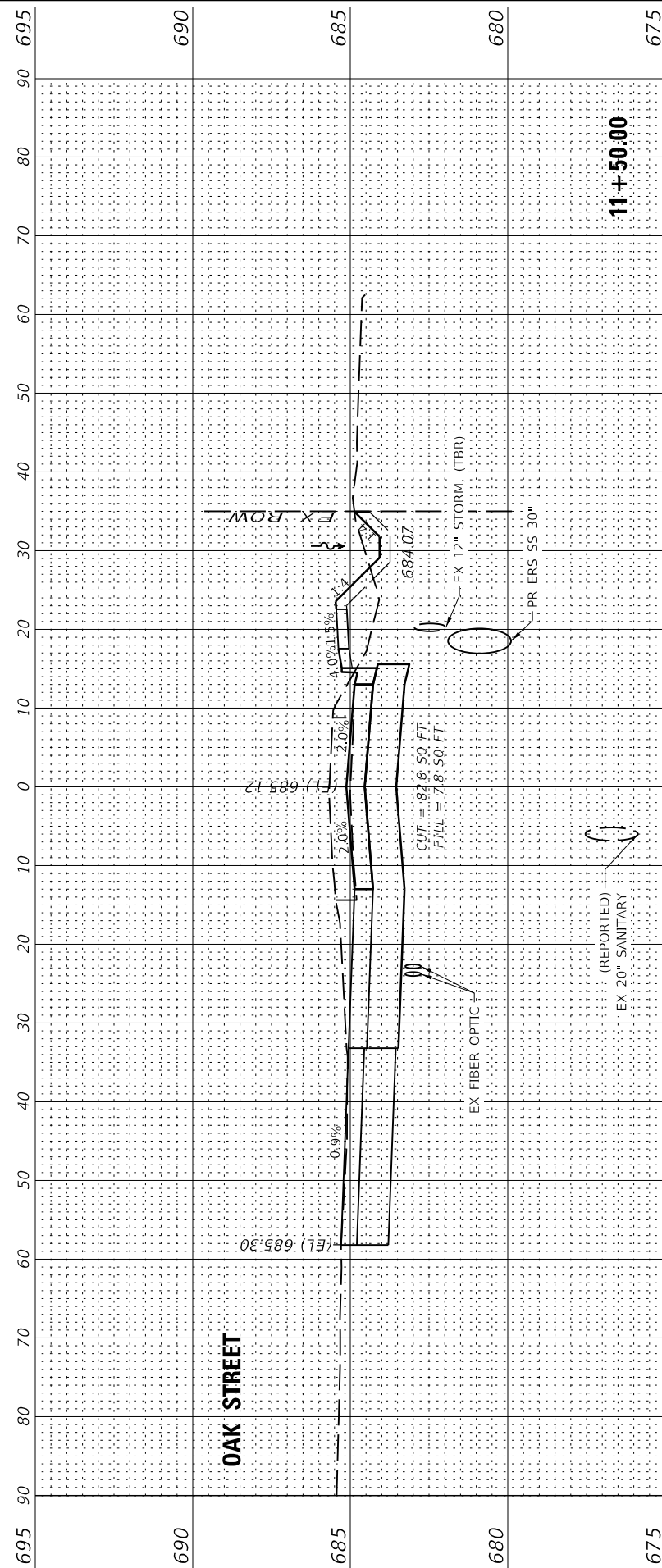
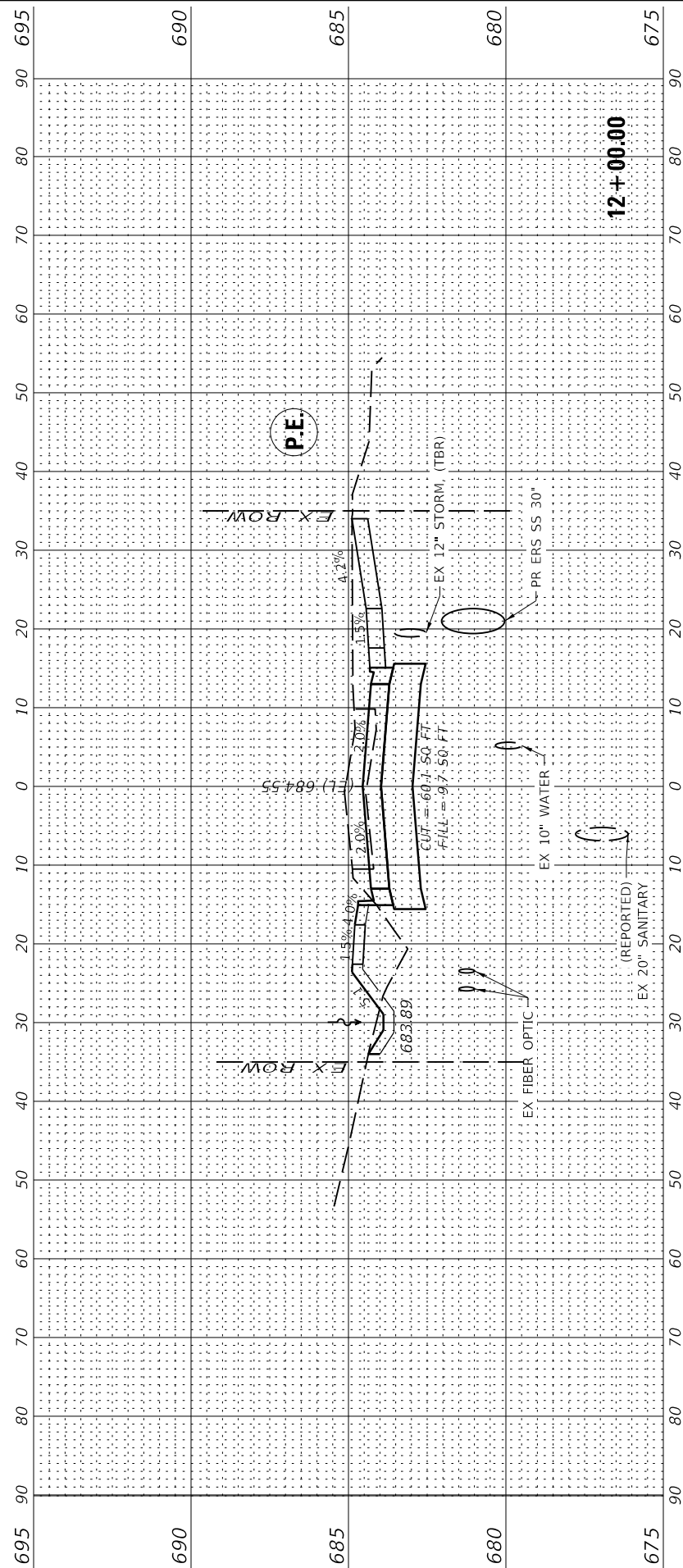


USER NAME = rslakey	DESIGNED - RWS	REVISED .
PLOT SCALE = 24x30.00" = 1/8"	DRAWN - RJT	REVISED .
PLOT DATE = 2/8/2022	CHECKED - ERB	REVISED .
8:51:06 AM	DATE - 02/09/22	REVISED .

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
F.A.U. 7945 - EAST 9TH STREET	
SCALE: 1"=10'(H)/1"=2.5'(V)	SHEET 3 OF 10 SHEETS
STA. 11+48.83	TO STA. 12+00.00

F.A.U. RTE. 7945	SECTION 16-00053-00-RS	COUNTY CHRISTIAN	TOTAL SHEETS 45	SHEET NO. 38
CONTRACT NO. 93774			ILLINOIS FED. AID PROJECT	



STA 11+30.00, 30.5 RT
 PR INLET TY A W
 TY 8 GRATE
 TRIM = 684.00
 INV (NE) = 682.38

PEN TABLE: D6016016000_Standard Project Penubli
 DRIVER: J. W. JOHNSON
 SHEET: 82016016016030 - Plans 300 St Improvements04_Drawing/DGN/CAD_Sheets/D6016016000-304_XSEC-04.dgn



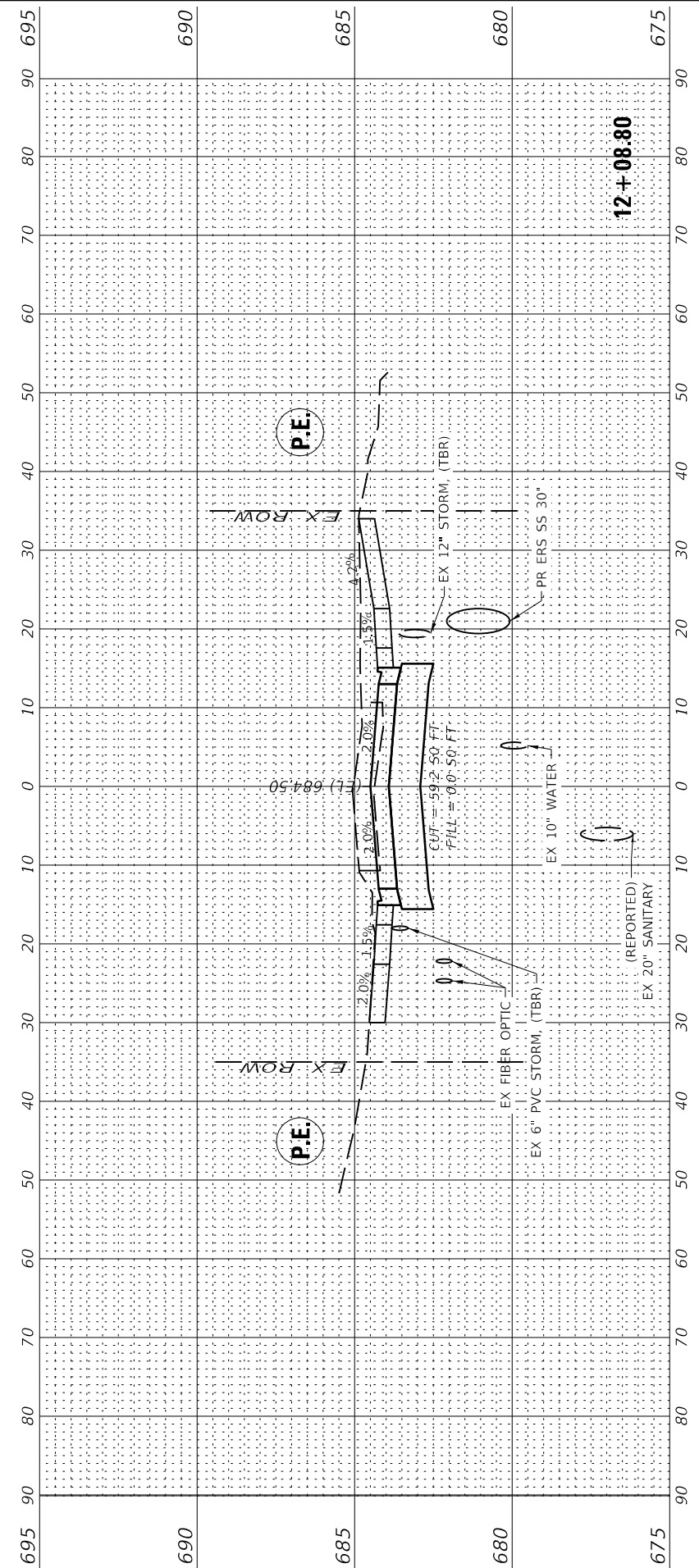
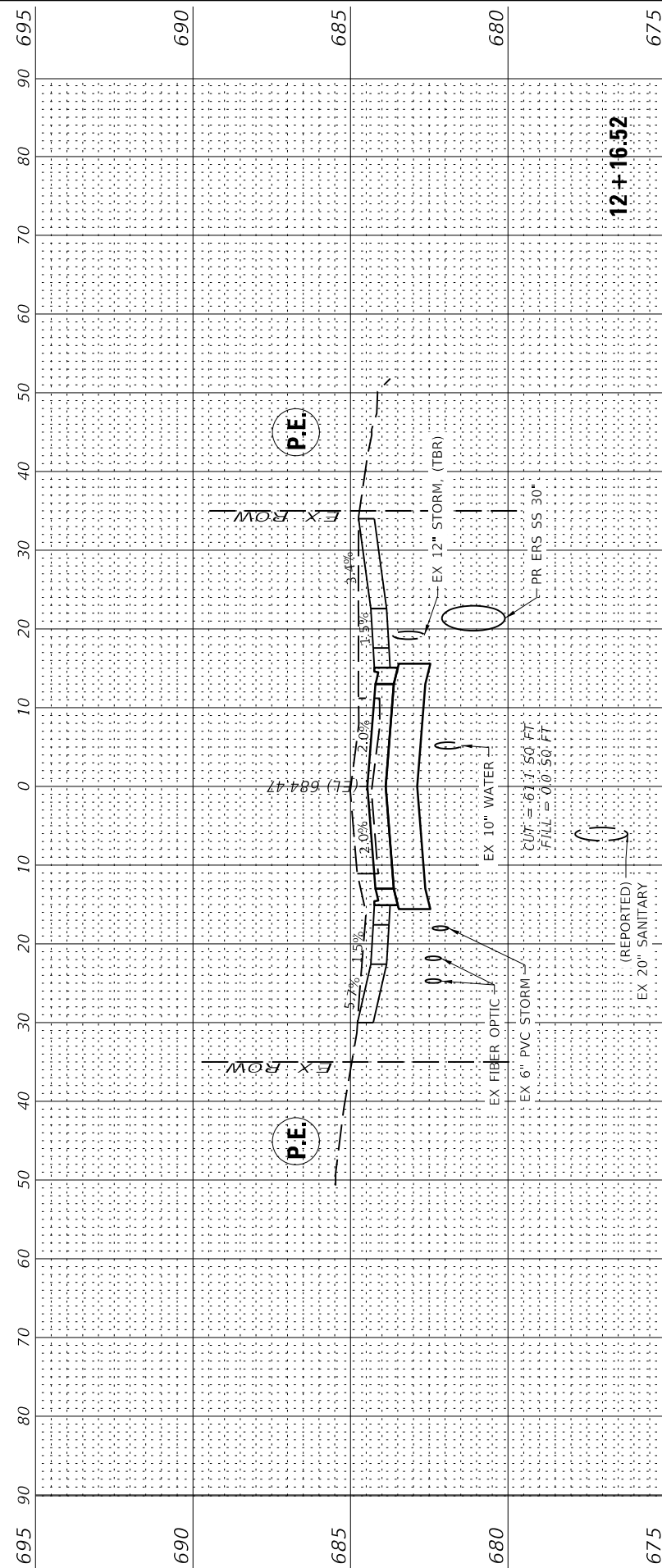
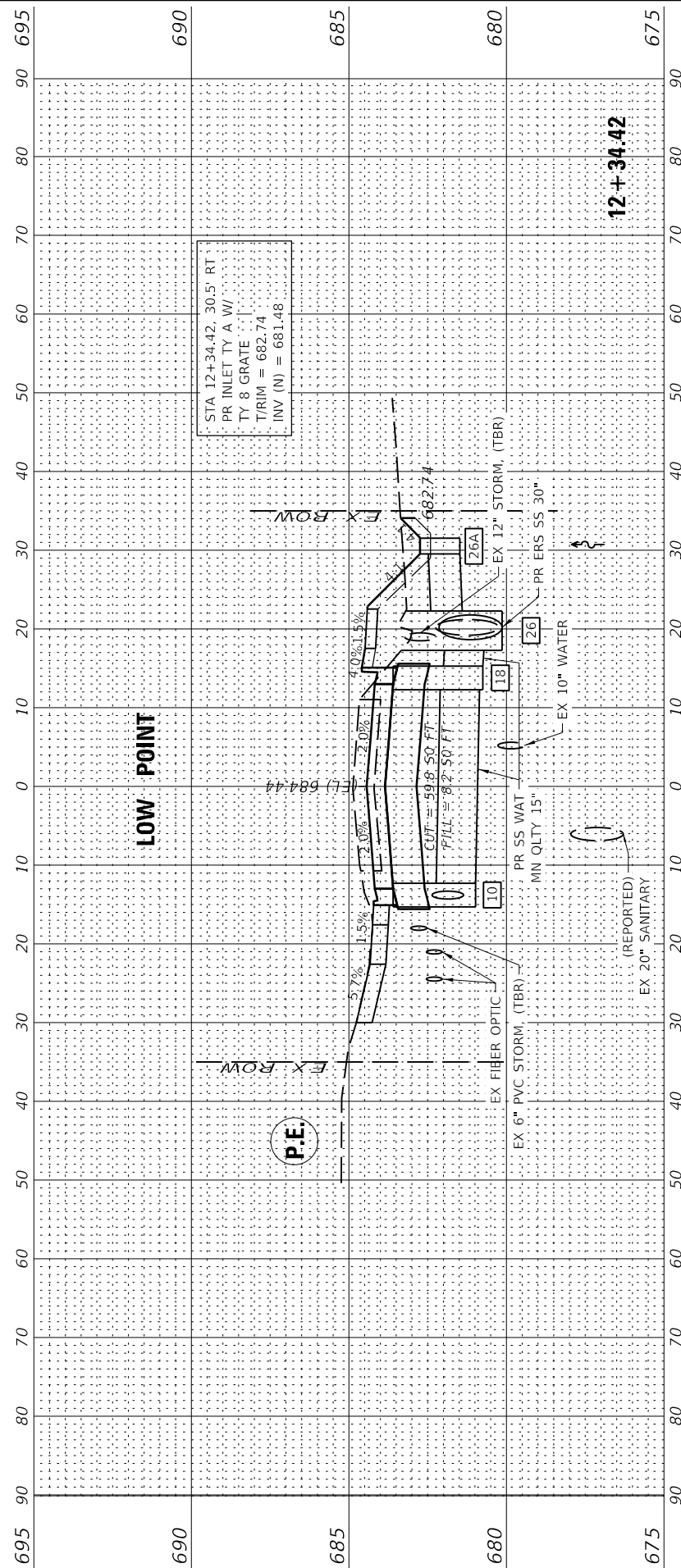
USER NAME = rslakey	DESIGNED - RWS	REVISED .
PLOT SCALE = 24x30.00" / 1/8"	DRAWN - RJT	REVISED .
PLOT DATE = 2/8/2022	CHECKED - ERB	REVISED .
8:51:07 AM	DATE - 02/09/22	REVISED .

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 F.A.U. 7945 - EAST 9TH STREET**

SCALE: 1"=10'(H)/1"=2.5'(V) SHEET 4 OF 10 SHEETS STA. 12+08.80 TO STA. 12+34.42

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	39
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		



PEN TABLE: D6016016000_Standard Project Penubli
 DRIVER: C:\Users\jw\OneDrive\Files
 SHEET: 82016016016030 - Plans 301-Improvements\04_Drawing\DWG\CAD_Sheet\6016016000-305_XSEC.05.dgn



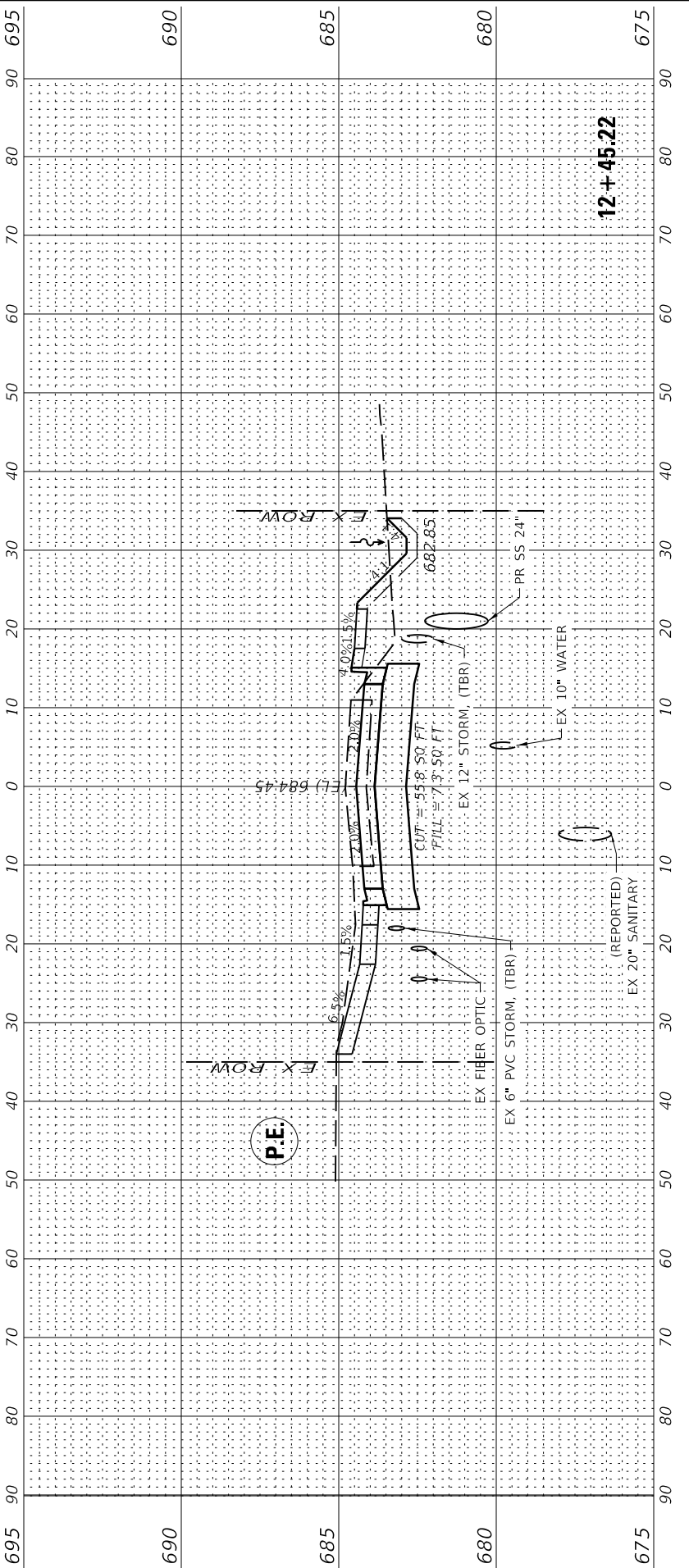
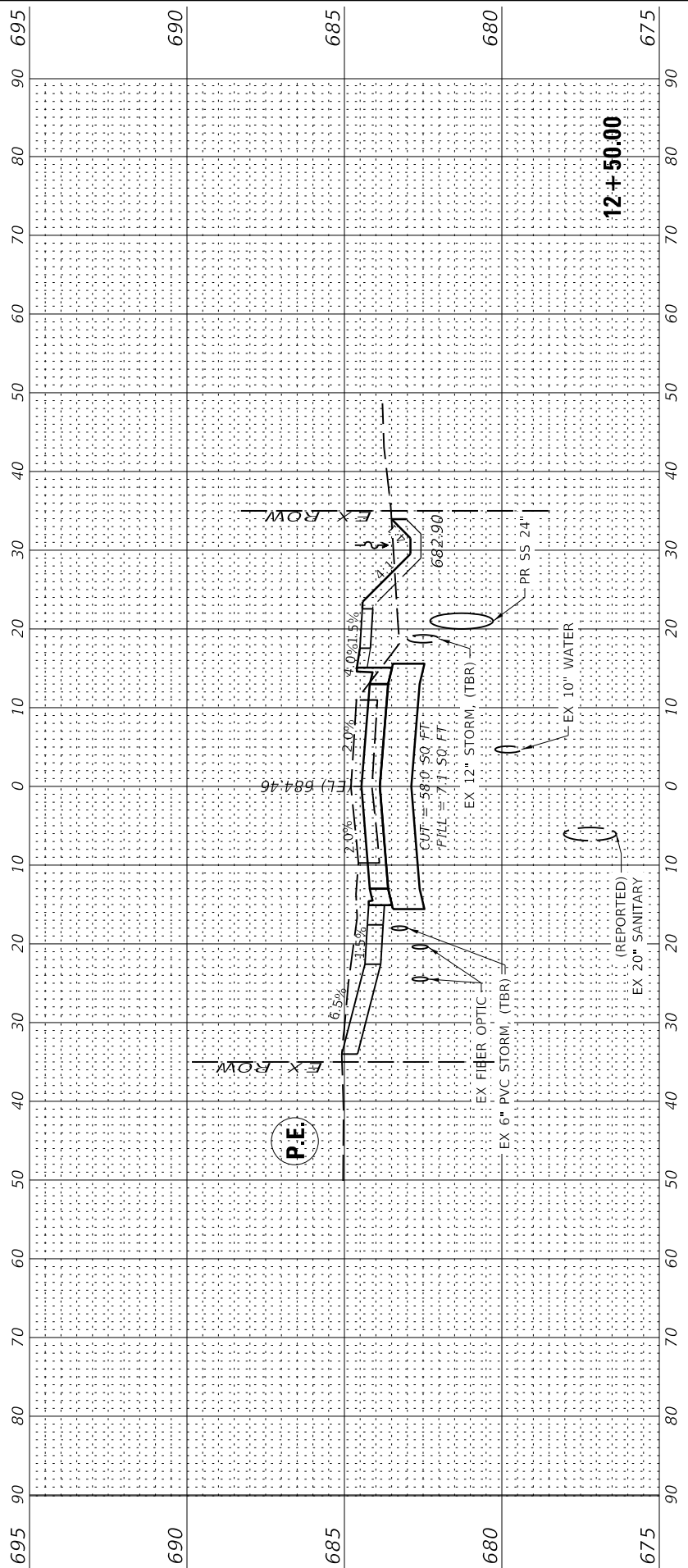
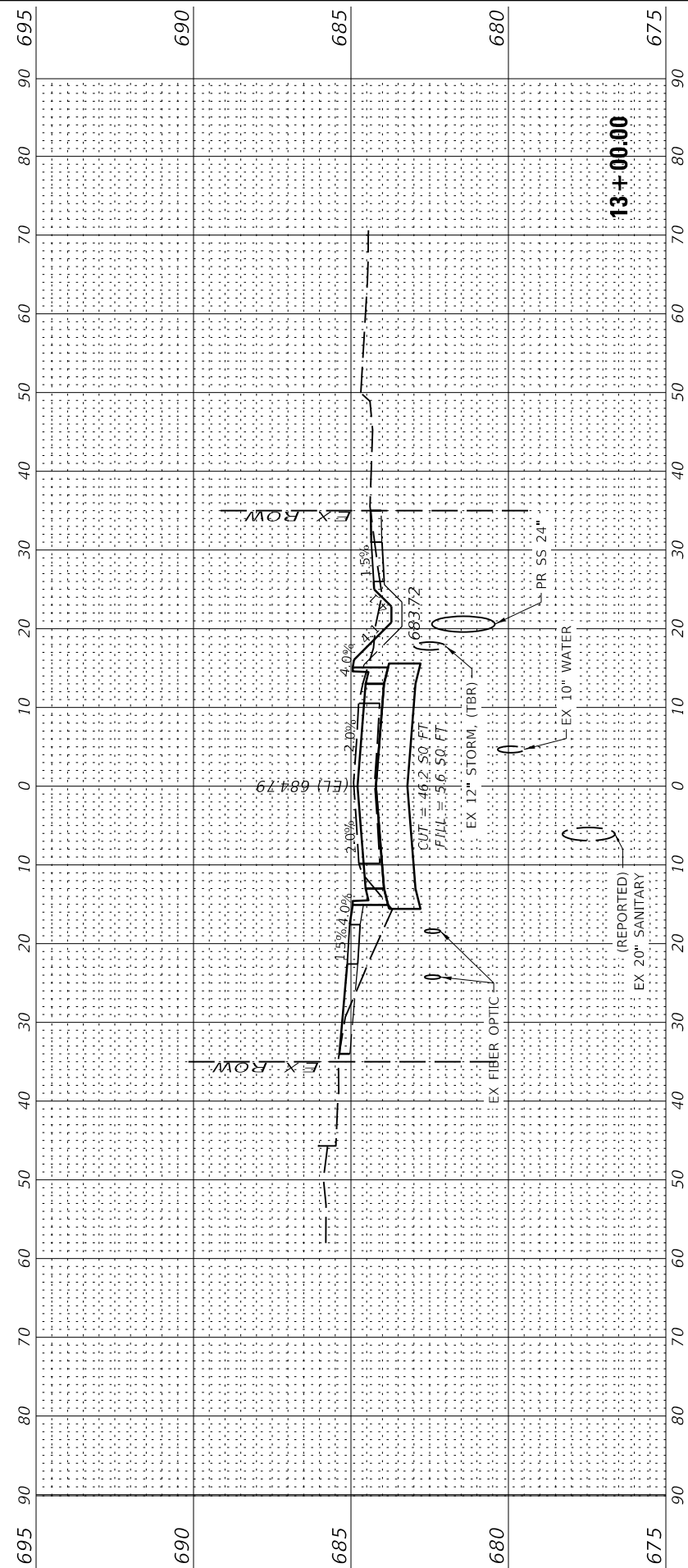
USER NAME = rslakey	DESIGNED - RWS	REVISIONS
PLOT SCALE = 24x30.00" / 11	DRAWN - RJT	REVISIONS
PLOT DATE = 2/8/2022	CHECKED - ERB	REVISIONS
8:51:07 AM	DATE - 02/09/22	REVISIONS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 F.A.U. 7945 - EAST 9TH STREET

SCALE: 1"=10'(H)/1"=2.5'(V) SHEET 5 OF 10 SHEETS STA. 12+45.22 TO STA. 13+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	40
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		



PEN TABLE: D6016016000_Standard Project Pen.tbl
 DRIVER: S:\Projects\16000\Drawings\DWG\CAD_Sheet\16016000-308_XSEC.06.dwg
 SHEET: 16016016000 - Plans 308_S\Improvements\04_Drawing\DWG\CAD_Sheet\16016000-308_XSEC.06.dwg

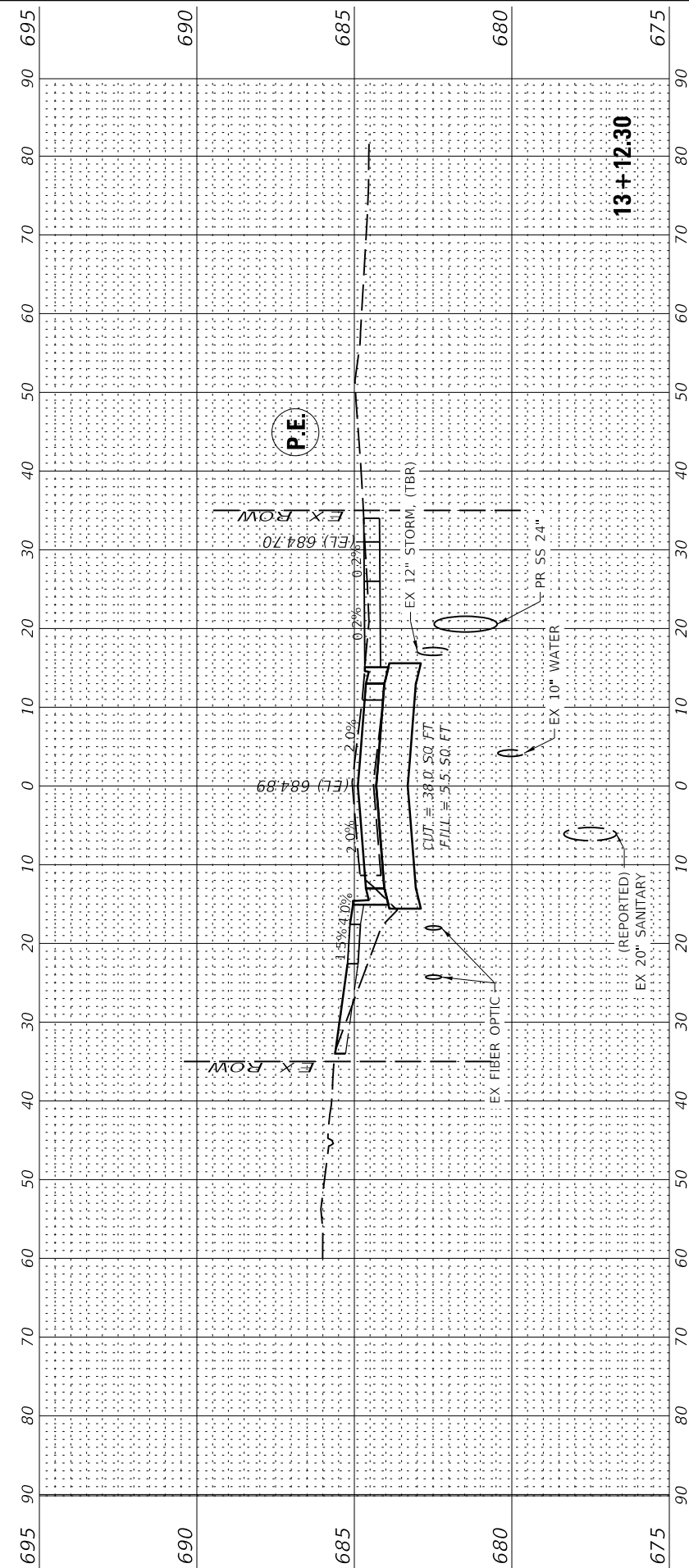
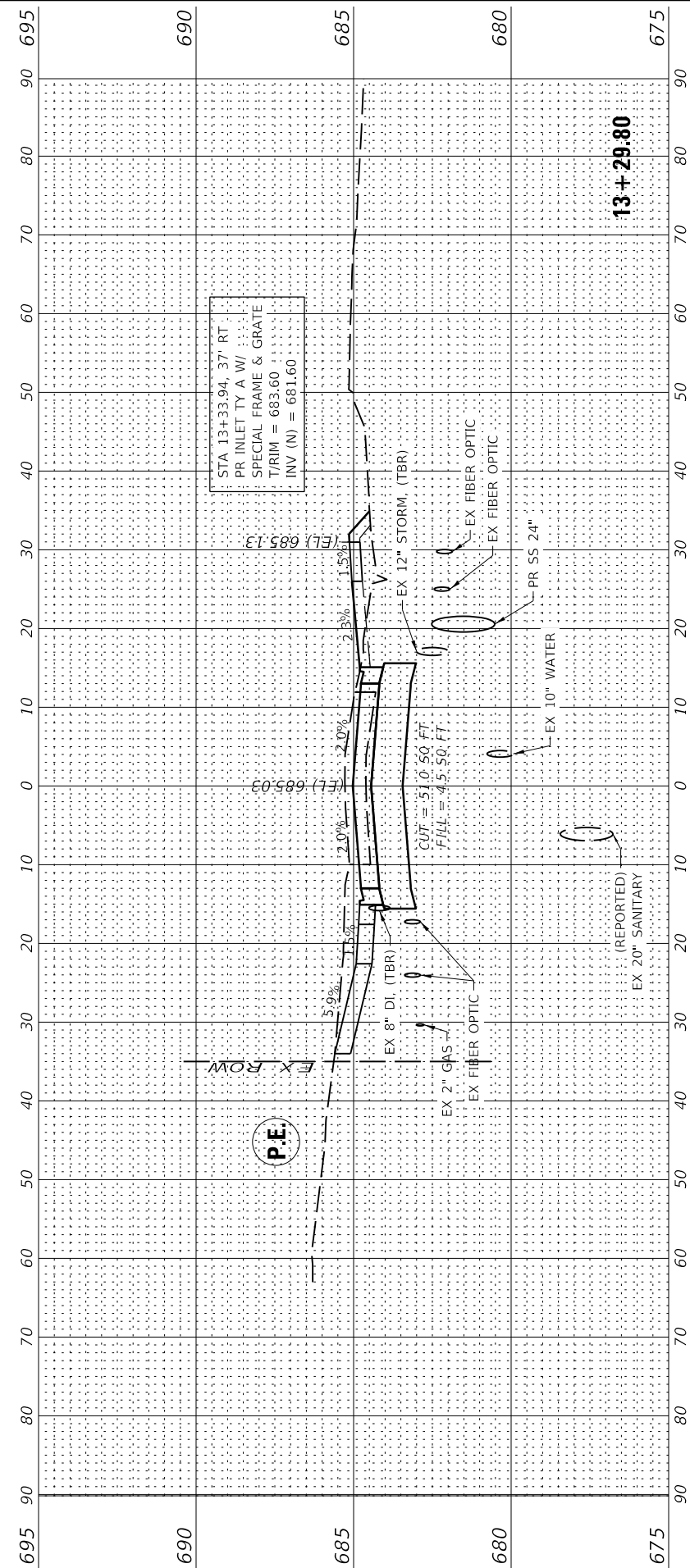
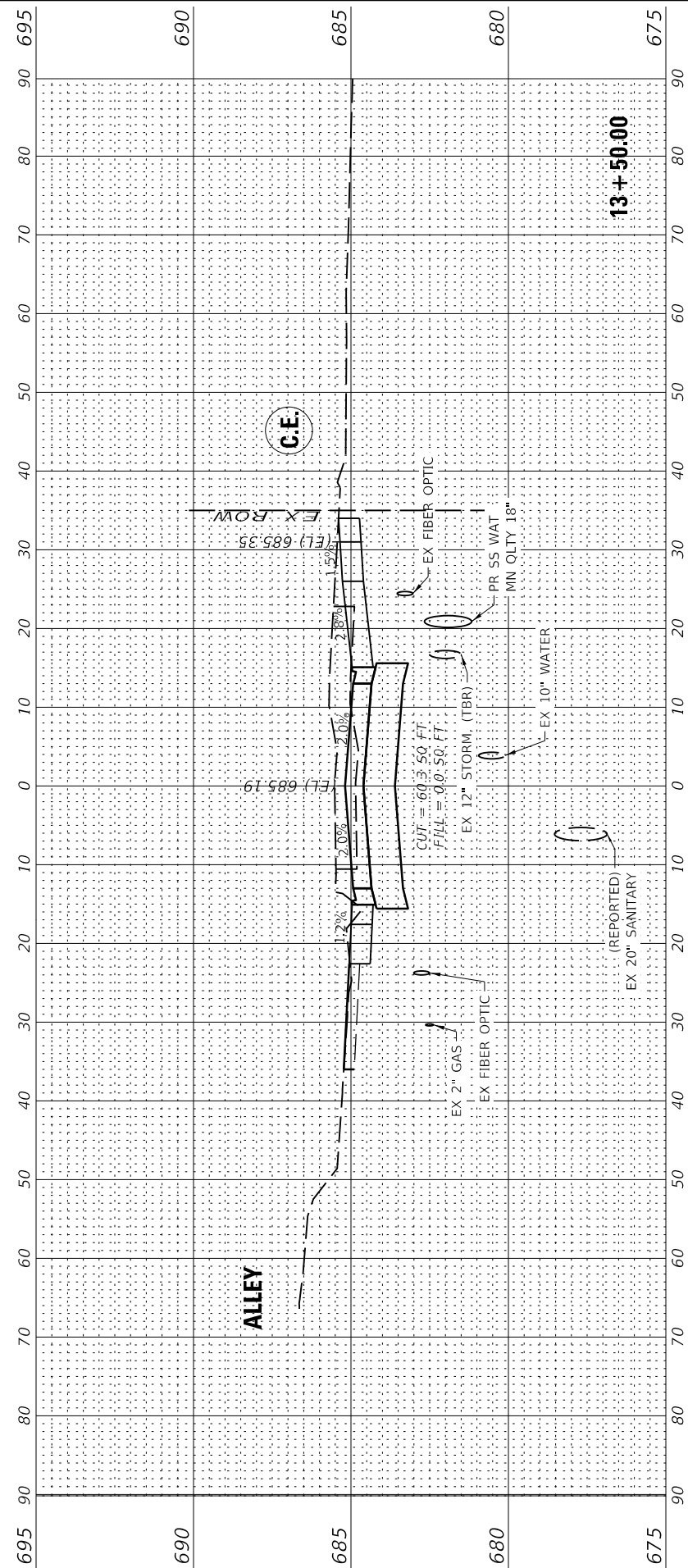


USER NAME = rslakey	DESIGNED - RWS	REVISED .
	DRAWN - RJT	REVISED .
PLOT SCALE = 24x30.00" / 11	CHECKED - ERB	REVISED .
PLOT DATE = 2/8/2022	DATE - 02/09/22	REVISED .

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
F.A.U. 7945 - EAST 9TH STREET	
SCALE: 1"=10'(H)/1"=2.5'(V)	SHEET 6 OF 10 SHEETS
STA. 13+12.30	TO STA. 13+50.00

F.A.U. RTE. 7945	SECTION 16-00053-00-RS	COUNTY CHRISTIAN	TOTAL SHEETS 45	SHEET NO. 41
CONTRACT NO. 93774				
ILLINOIS		FED. AID PROJECT		



PEN TABLE: D616016000_Standard Project Pen.tbl
 DRIVER: S:\Projects\16000\Drawings\DWG\CAD_Sheets\16016000-307_XSEC.07.dgn
 SHEET: 16016000-307 - Plans 307_S:\Improvements\16016000-307_XSEC.07.dgn



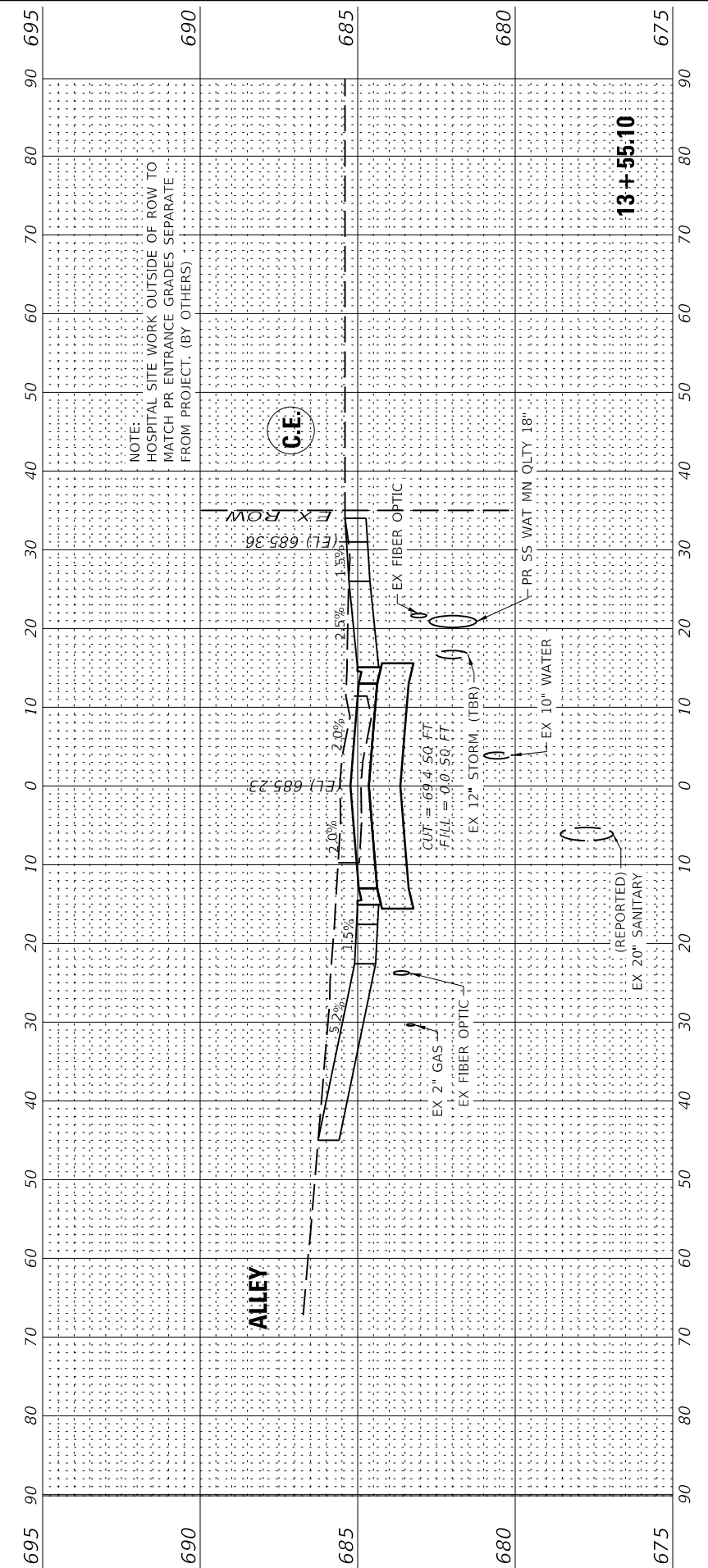
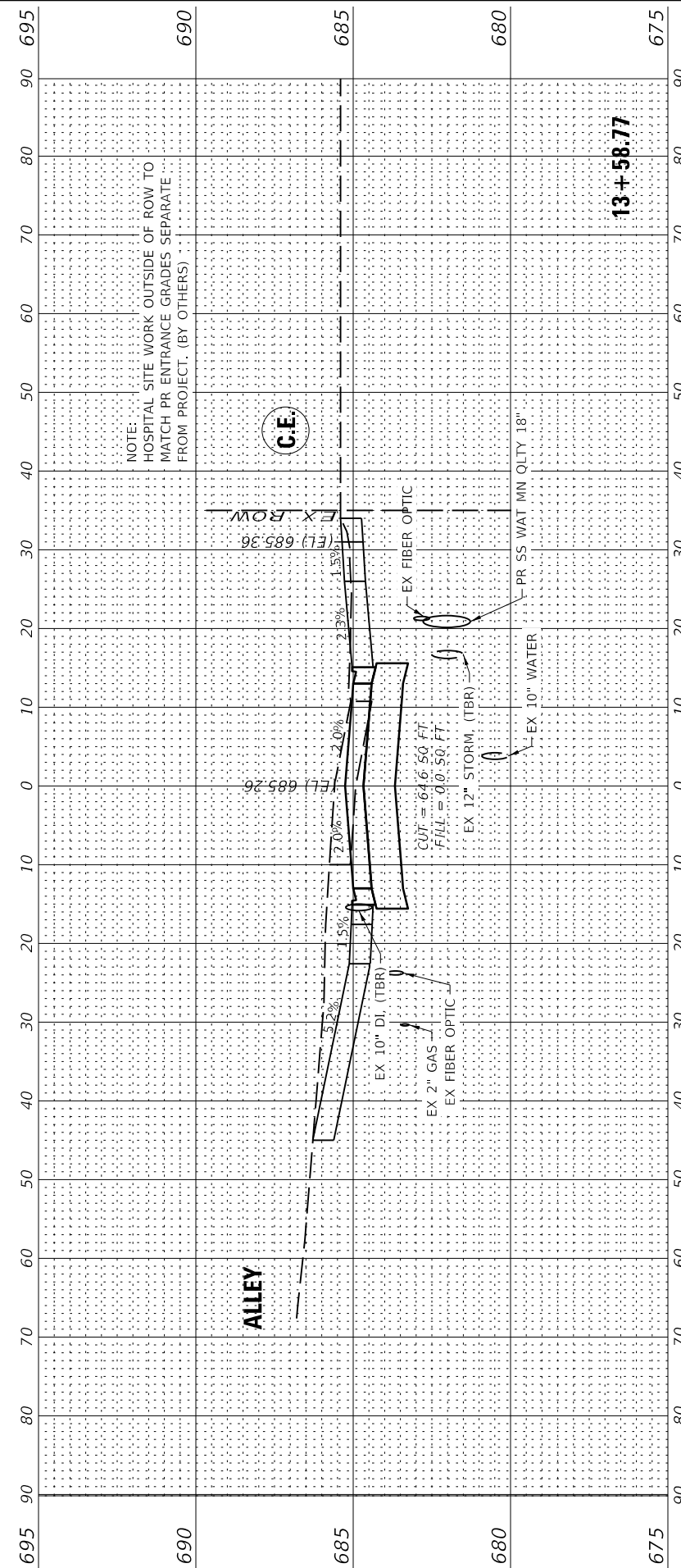
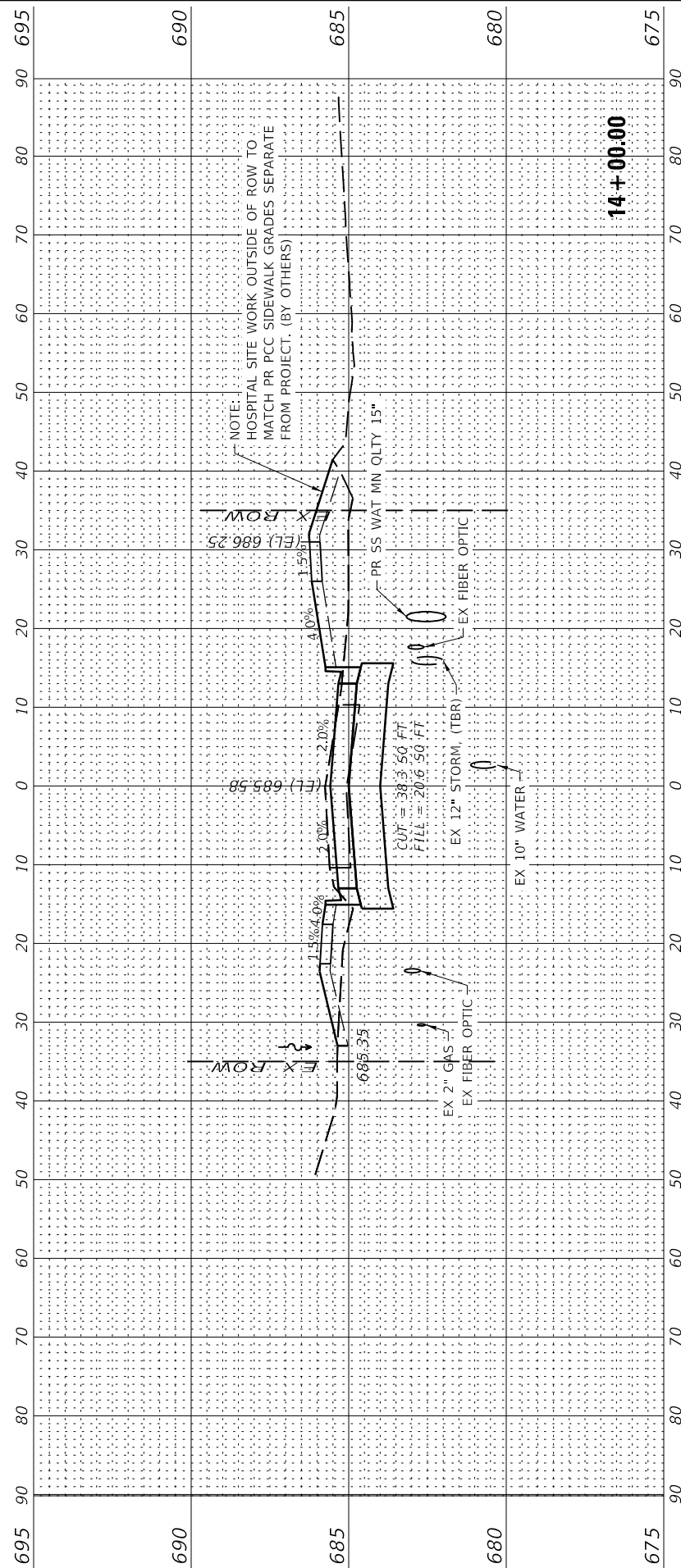
USER NAME = rslakey	DESIGNED - RWS	REVISIONS
PLOT SCALE = 24x30.00" / 11	DRAWN - RJT	REVISIONS
PLOT DATE = 2/8/2022	CHECKED - ERB	REVISIONS
8:51:08 AM	DATE - 02/09/22	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
F.A.U. 7945 - EAST 9TH STREET

SCALE: 1"=10'(H)/1"=2.5'(V) SHEET 7 OF 10 SHEETS STA. 13+55.10 TO STA. 14+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	42
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		



PEN TABLE: D6016016000_Standard Project Pen.tbl
 DRIVER: S:\Projects\16000\Drawings\DWG\CAD_Sheets\16016000-308_XSEC.08.dgn
 SHEET: FILE: 160160160000 - Plans_308_Standard\DWG\CAD_Sheets\16016000-308_XSEC.08.dgn



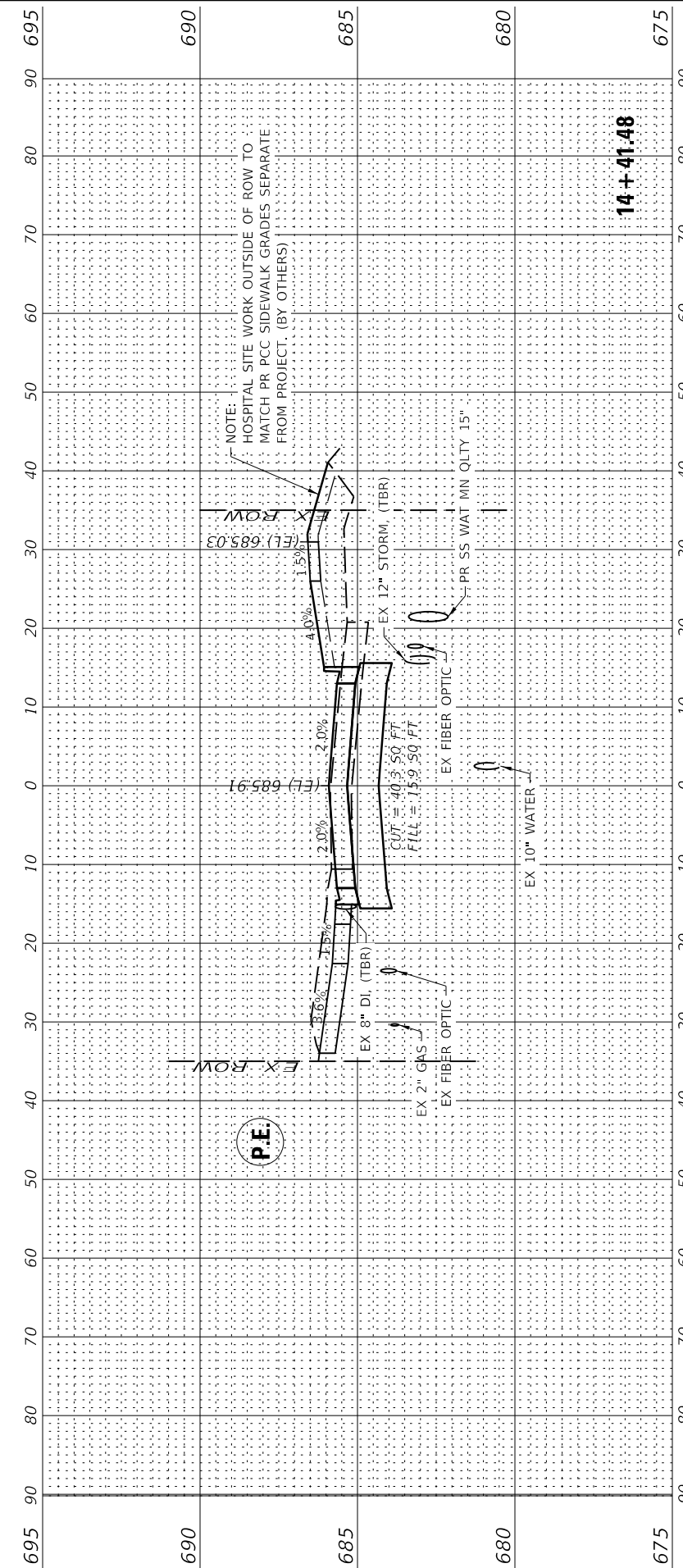
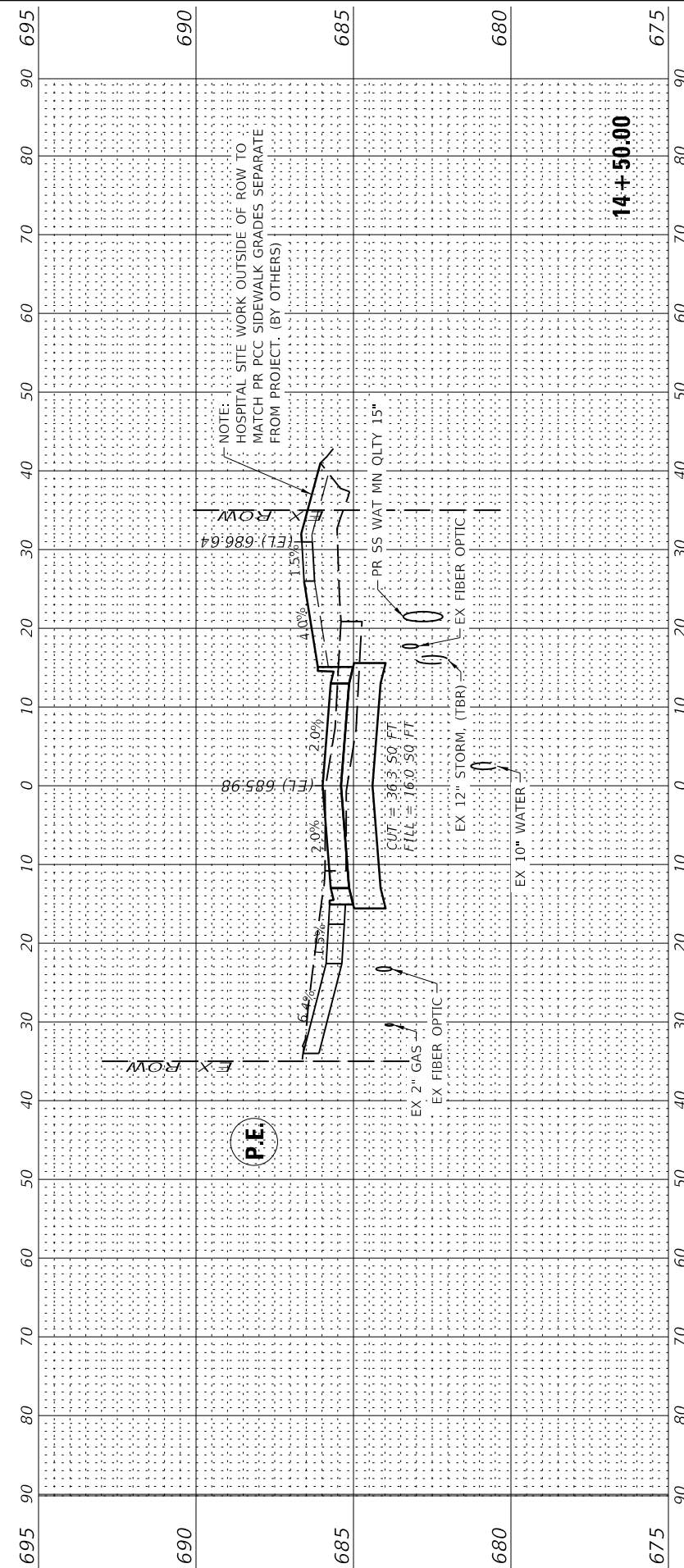
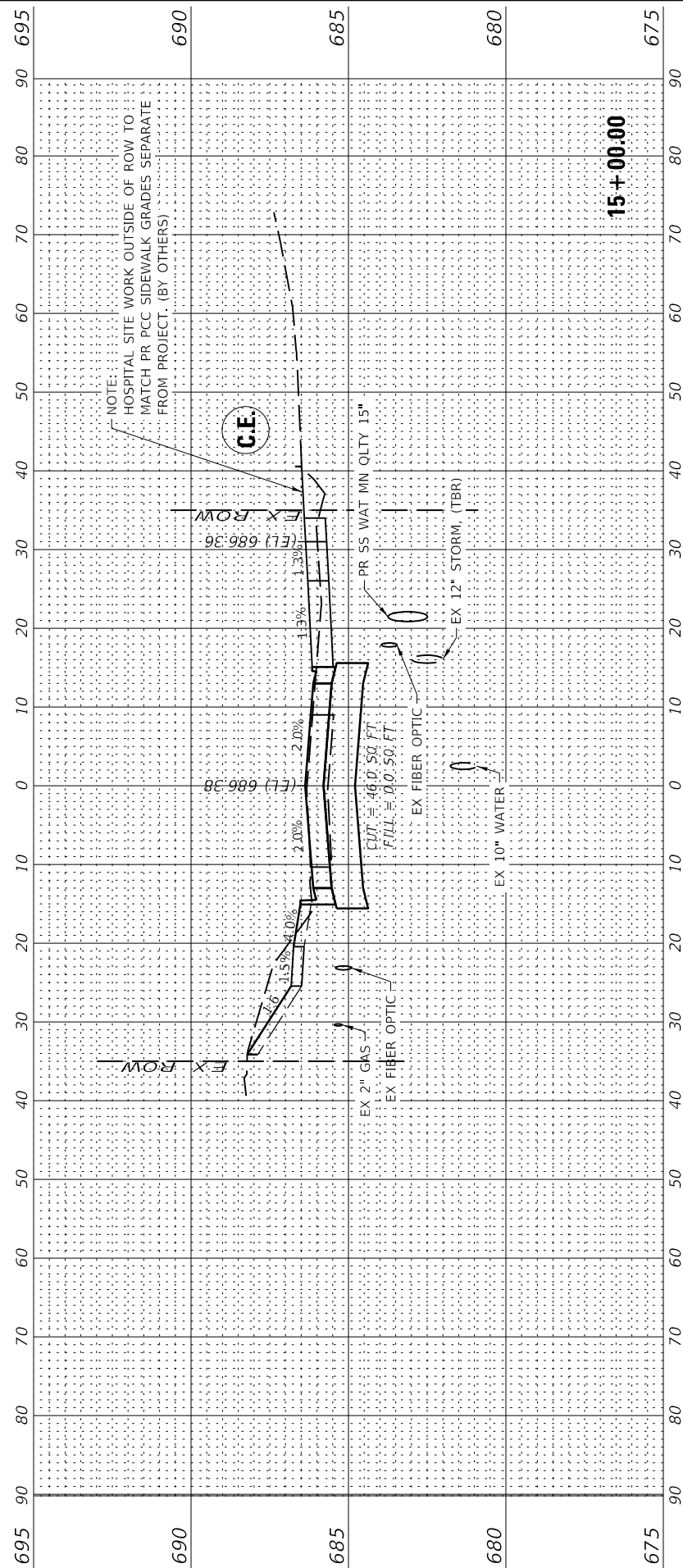
USER NAME = rstaley	DESIGNED - RWS	REVISED .
PLOT SCALE = 24x30.00" = 1/8"	DRAWN - RJT	REVISED .
PLOT DATE = 2/8/2022	CHECKED - ERB	REVISED .
8:51:09 AM	DATE - 02/09/22	REVISED .

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 F.A.U. 7945 - EAST 9TH STREET

SCALE: 1"=10'(H)/1"=2.5'(V) SHEET 8 OF 10 SHEETS STA. 14+41.48 TO STA. 15+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	43
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		



PEN TABLE: D616016000_Standard Project Penubli
 DRIVER: S:\Projects\16000\16000\Drawings\DWG\CAD_Sheet\16016000-309_XSEC.08.dgn
 FILE: 16016000-309_XSEC.08.dgn

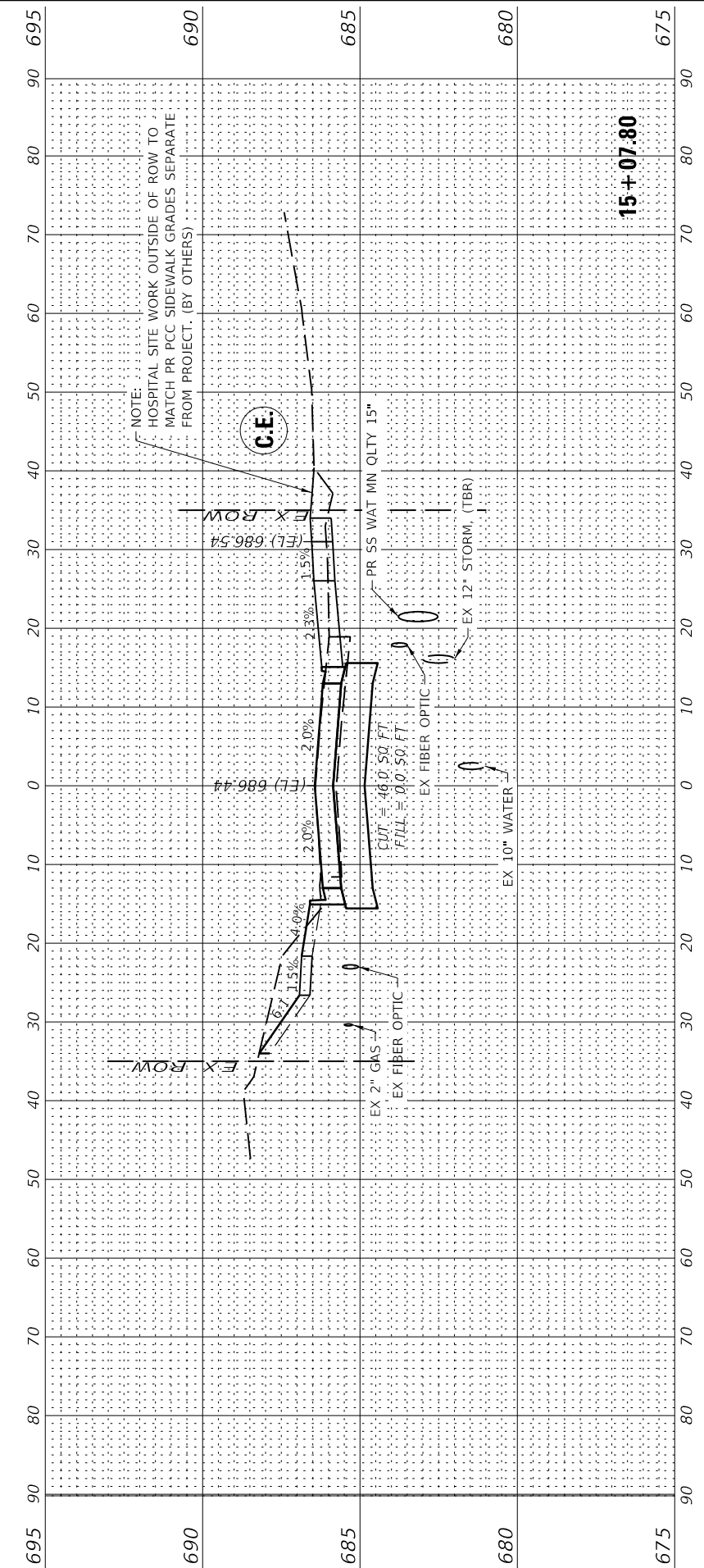
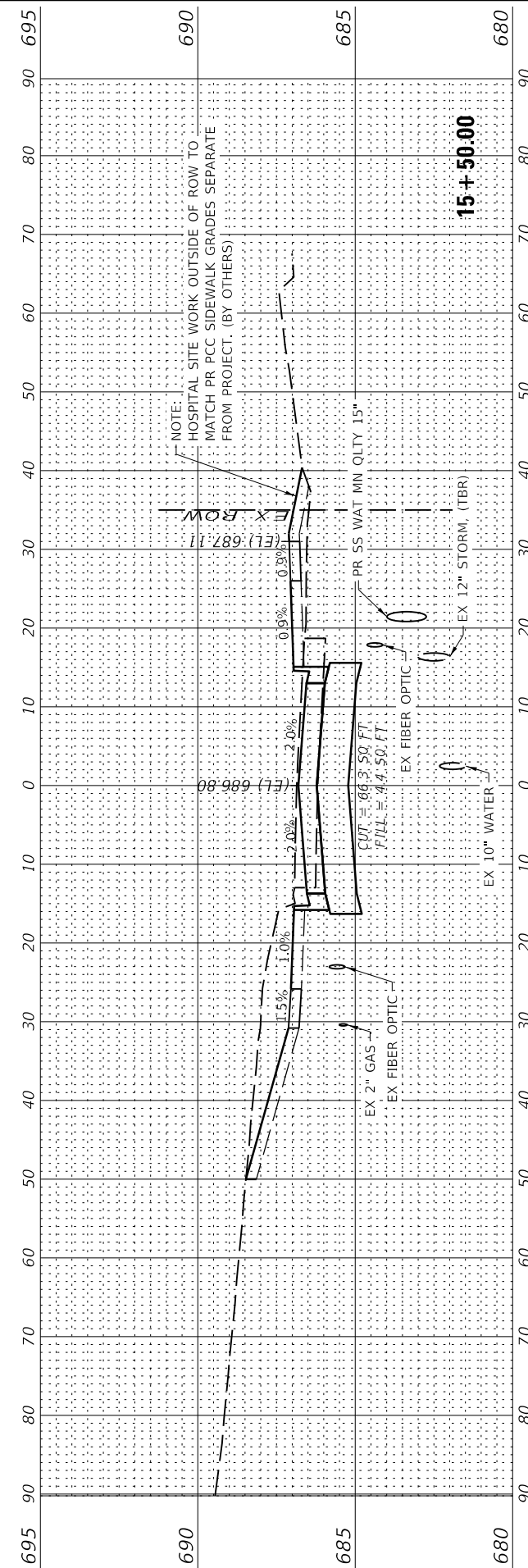
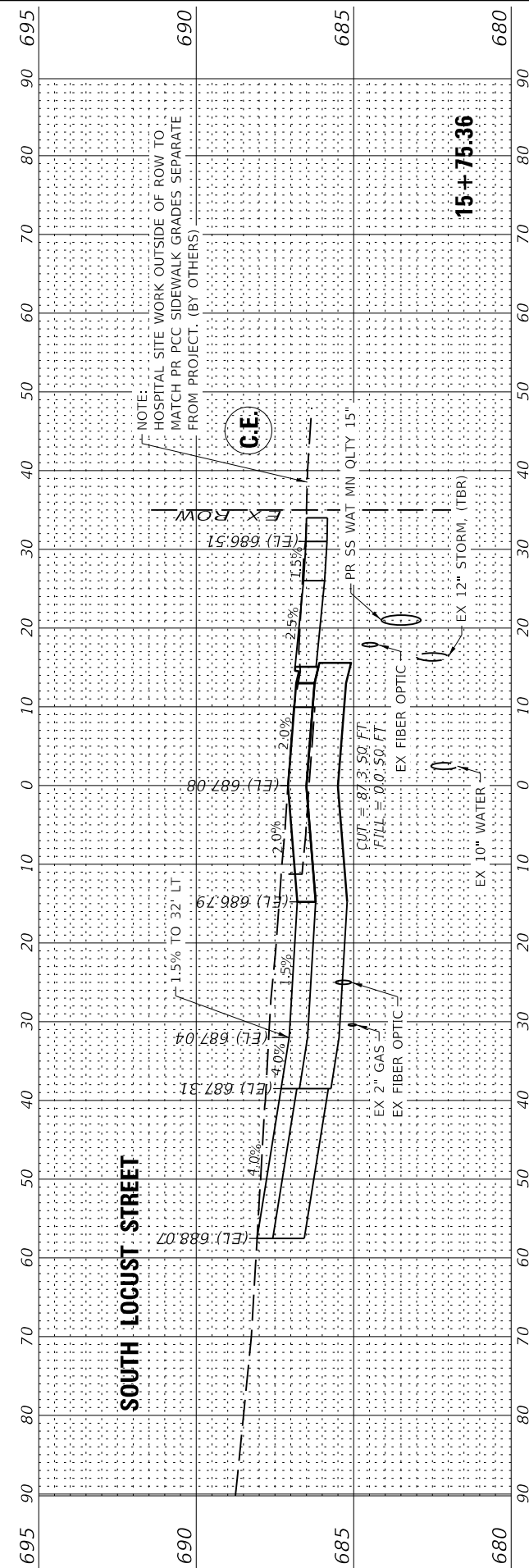
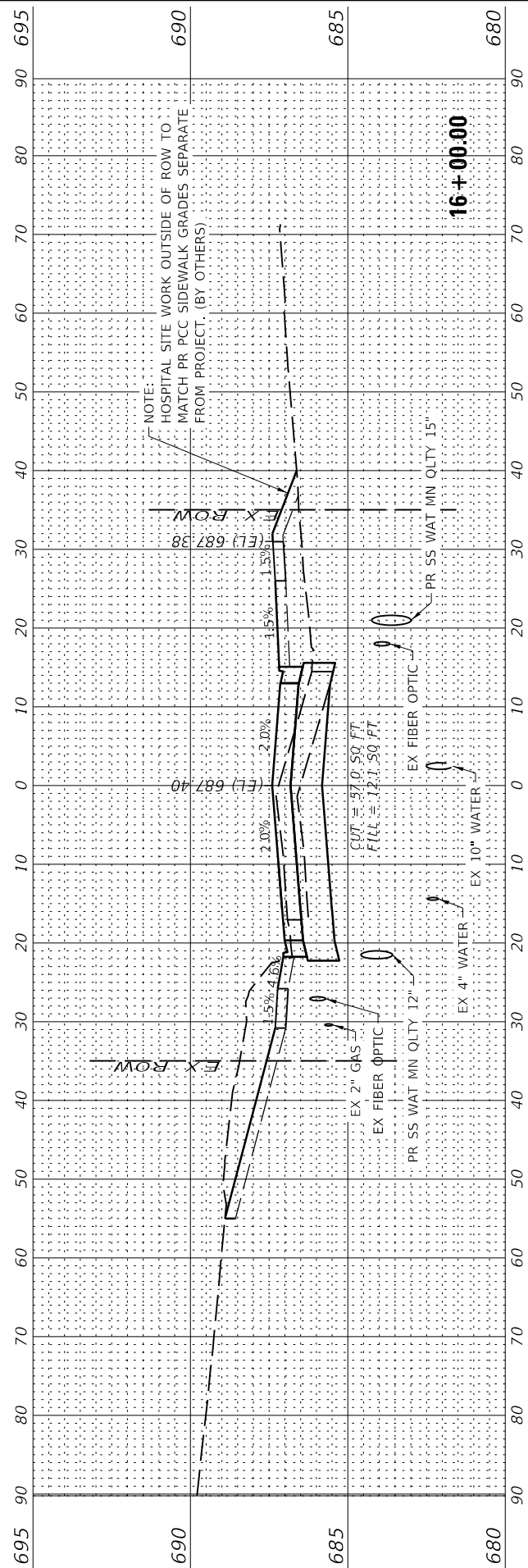


USER NAME = rslakey	DESIGNED - RWS	REVISED -
PLOT SCALE = 24x0.00" = 1/8"	DRAWN - RJT	REVISED -
PLOT DATE = 2/8/2022	CHECKED - ERB	REVISED -
8:51:09 AM	DATE - 02/09/22	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
F.A.U. 7945 - EAST 9TH STREET	
SCALE: 1"=10'(H)/1"=2.5'(V)	SHEET 9 OF 10 SHEETS
STA. 15+07.80	TO STA. 16+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	44
CONTRACT NO.			93774	
ILLINOIS		FED. AID PROJECT		



PEN TABLE: D6016016000_Standard Project Penubli
 DRIVER: J. W. JOHNSON
 SHEET: 16-00053-00-RS - F.A.U. 7945 - East 9th Street
 FILE: 16-00053-00-RS - F.A.U. 7945 - East 9th Street.dwg



USER NAME = rslakey	DESIGNED - RWS	REVISED .
	DRAWN - RJT	REVISED .
PLOT SCALE = 24x30.00" / 11	CHECKED - ERB	REVISED .
PLOT DATE = 2/8/2022	DATE - 02/09/22	REVISED .

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 F.A.U. 7945 - EAST 9TH STREET

SCALE: 1"=10'(H)/1"=2.5'(V) SHEET 10 OF 10 SHEETS STA. 16+17.00 TO STA. 16+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7945	16-00053-00-RS	CHRISTIAN	45	45
CONTRACT NO.			93774	
ILLINOIS FED. AID PROJECT				

