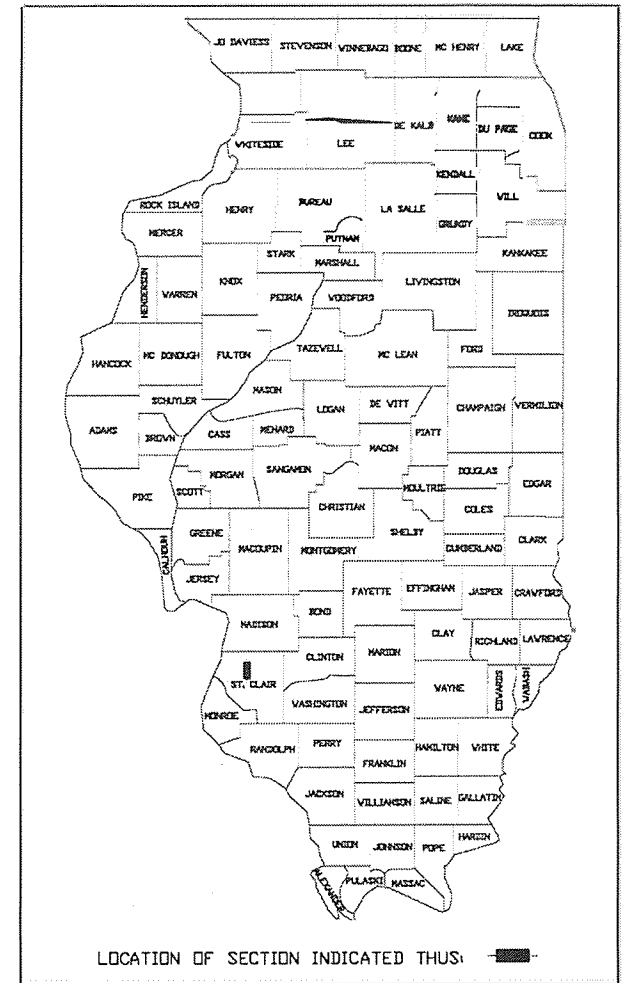


09-20-2019 LETTING ITEM 051

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 PLANS FOR PROPOSED FEDERAL AID PROJECT
 VILLAGE OF SHILOH
 PROPOSED SHILOH STATION ROAD
 RECONSTRUCTION - PHASES 6 & 7
 FAU ROUTE 9178
 SECTION 16-00011-06-PV, 17-00011-07-PV
 PROJECT NO. P1M5(154)
 ST. CLAIR COUNTY
 JOB NO. C-98-322-16
 STU FUNDING

FAU ROUTE	IDOT SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9178	16-00011-06-PV 17-00011-07-PV	ST. CLAIR	47	1
FEDERAL AID PROJECT			ILLINOIS	
IDOT JOB NO. C-98-322-16				
IDOT CONTRACT NO. 97692				



SEE PG. 2 FOR SHEET INDEX

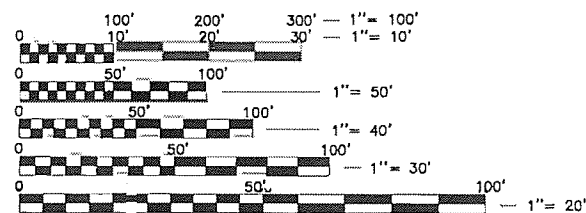
IDOT STANDARDS

000001-07	604001-04	701901-08
001001-02	604011-05	720001-01
001006	606001-07	720006-04
280001-07	630001-12	720011-01
424001-11	664001-02	728001-01
424016-05	701006-05	731001-01
542301-03	701011-04	780001-05
602301-04	701301-04	781001-04
602306-03	701311-03	BLR 21-9
602601-06	701501-06	BLR 22-7
602701-02	701801-06	BLR 23-4

602 001-02

UTILITIES

GAS/ELECTRIC AMEREN IP 1050 WEST BOULEVARD P.O. BOX 428 BELLEVILLE, ILLINOIS 62222	WATER ILLINOIS AMERICAN WATER COMPANY 100 NORTH WATER WORKS DRIVE P.O. BOX 24040 BELLEVILLE, ILLINOIS 62223
PHONE/CABLE AT&T 203 GOETHE COLLINSVILLE, ILLINOIS 62234	SANITARY SEWER VILLAGE OF SHILOH #1 PARK DRIVE SHILOH, ILLINOIS 62269
PHONE/CABLE CHARTER COMMUNICATIONS 7645 MAGNA DRIVE, STE. 100 BELLEVILLE, IL 62223	

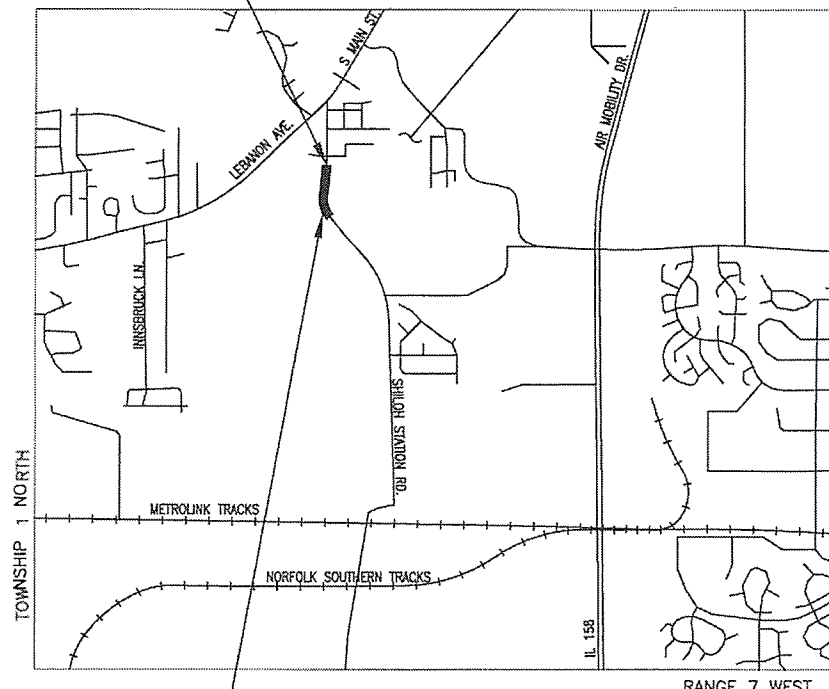


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

BEGIN PROJECT STA. 9+50.00

VILLAGE OF SHILOH

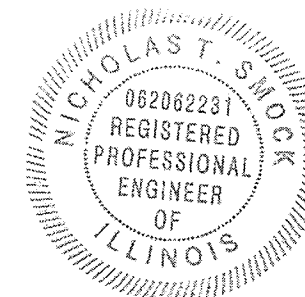


END PROJECT STA. 19+66.65

LOCATION MAP
N.T.S.

SHILOH STATION ROAD DESIGN DESIGNATION:
ROADWAY CLASSIFICATION - COLLECTOR
URBAN DESIGN SPEED - 30 MPH
DESIGN TRAFFIC (2031) ADT - 2,150

LENGTH OF PROJECT
SHILOH STATION RD. PHASE 6 AND 7
SHILOH STATION ROAD LENGTH - 1,016.65' (0.193 MILES)
NET LENGTH - 1,016.65' (0.193 MILES)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED February 12, 2019
James A. Verno
MAYOR
VILLAGE OF SHILOH

PASSED February 22, 2019
Don A. Achille
DISTRICT 8 ENGINEER
LOCAL ROADS & STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW
February 22, 2019
Keith Roberts
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Nicholas T. Smock 2/12/19
NICHOLAS T. SMOCK
LICENSE NO. 062-062231
EXPIRATION DATE 11-30-2019

PREPARED BY:
TWM THOUVENOT, WADE & MOERCHEN, INC.

TWM JOB NO. T25160010A



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FAX (618) 624-6688

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ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

SEAL

Signature: _____
Expiration Date: _____

STATEMENT OF RESPONSIBILITY
I hereby confirm that the document herein to be authenticated by my seal is restricted to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be utilized for any other part of the architectural, engineering or survey project.

TITLE: SHILOH STATION RD. PHASE 6 AND 7 GENERAL NOTES
PROJECT: SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

REV	DATE	DESCRIPTION
△		
△		
△		

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	2
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: 125160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING

GENERAL NOTES

- ANY FACILITIES OR APPURTENANCES, WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION, SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY SUCH FACILITY IN THEIR REMOVAL AND ADJUST HIS OPERATIONS, IN ORDER THAT, THE UTILITY'S OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER.
- THE TYPE, SIZE, AND LOCATION OF UTILITIES, AS DELINEATED IN THESE TOPOGRAPHIC LAND SURVEY DOCUMENTS AND/OR CIVIL ENGINEERING DESIGN DOCUMENTS, HAVE BEEN DETERMINED BY REVIEW OF AVAILABLE EXISTING "AS-BUILT" OR RECORD DRAWINGS, FIELD SURVEY OF J.U.L.I.E. MARKED UTILITIES, OR FIELD SURVEY OF ABOVE GROUND SURFACE UTILITY FEATURES. THE OWNER AND ENGINEER HAVE NOT UNDERTAKEN SUBSURFACE EXPLORATORY INVESTIGATIONS TO CONFIRM OR VERIFY THE UTILITIES SHOWN ON THESE DOCUMENTS; THEREFORE THEIR EXACT LOCATION, SIZE, AND FUNCTION MUST BE CONSIDERED APPROXIMATE AND MUST BE FIELD CONFIRMED BY THE CONTRACTOR.
- THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THESE DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUBSTANTIAL DISCREPANCY EXISTS BETWEEN FIELD VERIFIED UTILITIES AND THESE PLANS, WHICH WOULD SIGNIFICANTLY AFFECT THE FUNCTION, COST, OR PERFORMANCE OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND PROJECT DIRECTION.
- THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE AREA LOCATED WITHIN THE TEMPORARY CONSTRUCTION EASEMENTS, AS SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- ALL EXISTING ROADWAY FEATURES, SUCH AS CULVERTS, HEADWALLS, RIP RAP, CURB, PAVEMENT, FENCING, ETC., LOCATED WITHIN THE CONSTRUCTION LIMITS ARE TO BE REMOVED UNLESS NOTED OTHERWISE ON THE PLANS.
- EVERY TREE SHALL BE SAVED, IF POSSIBLE. THE ENGINEER IN THE FIELD WILL VERIFY AND MARK ALL TREES REQUIRED TO BE REMOVED. SHOULD THE ENGINEER'S DECISION INCREASE OR DECREASE THE QUANTITIES OF WORK TO BE PERFORMED FROM THE PLANS, THE CONTRACTOR SHALL ACCEPT PAYMENT AS STATED IN ARTICLE 104.03 OF THE STANDARD SPECIFICATIONS. TREES OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED UNLESS DESIGNATED BY THE ENGINEER.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL DEVICES SHALL BE IMPLEMENTED AS SHOWN ON THE EROSION CONTROL PLAN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL EROSION AND DISPLACED SEDIMENT DOES NOT MIGRATE OFF SITE. IF UNEXPECTED EROSION OR SEDIMENTATION OCCURS, OR IF THE EROSION PLAN STRUCTURES BECOME DAMAGED, THE CONTRACTOR SHALL PROVIDE SUFFICIENT MEASURES TO REPAIR, REPLACE, OR INSTALL EROSION CONTROL STRUCTURES TO INSURE OFF-SITE DAMAGE DOES NOT OCCUR. ANY SEDIMENT OR EROSION DAMAGE WHICH OCCURS OFF-SITE SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE.
- ALL EARTH SURFACES DISTURBED BY CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER, SHALL BE SEEDED AND MULCHED ACCORDING TO SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL TEMPORARY EROSION CONTROL SEEDING SHALL BE IMPLEMENTED ACCORDING TO SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. COST BEYOND CONSTRUCTION LIMITS IS THE RESPONSIBILITY OF CONTRACTOR.
- ALL MATERIALS SHALL BE APPLIED UNIFORMLY ACROSS THE CONSTRUCTION SURFACE. THE PRIME COAT AND THE SEAL COAT SHALL BE APPLIED UNIFORMLY PER ARTICLE 403.02 AT A RATE OF 0.25 TO 0.50 GAL/SQ. YD. BITUMINOUS MATERIAL FOR THE COVER COAT SHALL BE APPLIED UNIFORMLY PER ARTICLE 403.02 AT A RATE OF 0.20 TO 0.50 GAL/SQ. YD.
- ANY CULVERTS DAMAGED BY OR REMOVED BY THE CONTRACTOR, OTHER THAN THOSE NOTED ON THE PLANS TO BE REMOVED, WILL HAVE TO BE REMOVED AND/OR REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.
- ALL MATERIALS, SUCH AS FRAMES AND GRATES AND STORM SEWER PIPE SCHEDULED FOR REMOVAL, THAT ARE CONSIDERED TO BE SUITABLE FOR FUTURE USE, SHALL BE SALVAGED AND STOCKPILED AS DIRECTED BY THE ENGINEER. ALL OTHER MATERIALS SCHEDULED FOR REMOVAL, BUT NOT SALVAGED, SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS/HER EXPENSE.
- THE CONTRACTOR IS ADVISED THAT THE PROPOSED STORM SEWER ROADWAY CROSSINGS AND EXISTING UTILITIES MAY CONFLICT WITH THE PROPOSED PROCESSING MODIFIED SOILS OPERATIONS DUE TO MINIMAL COVER OVER THE PIPES. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN THESE AREAS SO AS NOT TO CAUSE ANY DAMAGE TO THE PROPOSED STORM SEWERS. THIS MAY NECESSITATE VARYING THE METHODS OF LIME STABILIZATION. NO DIRECT PAYMENT SHALL BE MADE FOR THESE ACCOMMODATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE VILLAGE OF SHILOH AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES OR WORK REQUIRING INSPECTION OR APPROVAL BY THE AFFECTED UNITS OF GOVERNMENT.
- IT IS NOT WARRANTED THAT THESE PLANS CONTAIN COMPLETE INFORMATION REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, RIGHTS-OF-WAY, BUILDING LINE SETBACKS, AND OTHER ENCUMBRANCES. FOR COMPLETE INFORMATION, A TITLE OPINION OR COMMITMENT FOR TITLE INSURANCE SHOULD BE OBTAINED AND THOROUGHLY REVIEWED.
- PRIOR TO CONSTRUCTING ANY ENTRANCE, THE PROPERTY OWNER WILL BE NOTIFIED IN WRITING, INFORMING THEM OF CONSTRUCTION AND THE ESTIMATED DATES CONSTRUCTION WILL TAKE PLACE.
- ALL GRADING, EXCAVATION AND FILL, NECESSARY TO SATISFY THE ADDITIONAL DRIVEWAY LENGTHS SHALL BE INCLUDED IN COST OF DRIVEWAY PLACEMENT TYPE. NO ADDITIONAL COST WILL BE ALLOWED.
- ANY SUBSURFACE UTILITY WITHIN THE CONSTRUCTION LIMITS IS TO BE VERIFIED FOR ACTIVITY AND ALL ABANDONED UTILITIES ARE TO BE REMOVED. COST IS INCLUDED IN THE COST OF EARTH EXCAVATION.

COMMITMENTS

DUE TO POTENTIAL SUITABLE HABITAT FOR THE INDIANA BAT WITHIN THE PROJECT CORRIDOR, NO TREES ARE TO BE REMOVED BETWEEN APRIL 1ST AND SEPTEMBER 30TH OF ANY YEAR

LEGEND

LINE TYPE LEGEND	SYMBOL LEGEND
----- EASEMENT	↑ ELECTRIC GUYWIRE
----- EDGE OF PAVEMENT (GRAVEL)	○ ELECTRIC METER
--- OHE --- ELECTRIC LINE (OVERHEAD)	□ ELECTRIC POWERPOLE
--- FO --- FIBER OPTIC LINE (UNDERGROUND)	□ ELECTRIC RISER
==== EXISTING STORM CULVERT	□ FIBER OPTIC RISER
~~~~ TREE LINE	□ GAS RISER
--- W --- WATER LINE	□ GAS VALVE
	↑ GENERAL SIGN
	⊙ STORM CATCH BASIN
	□ STORM CURB INLET
	■ STORM GRATE INLET
	⊕ STORM JUNCTION BOX
	⊓ TELEPHONE HANDHOLE
	⊓ TELEPHONE MANHOLE
	⊓ TELEPHONE RISER
	⊕ TREE - DECIDUOUS
	⊕ WATER - FIRE HYDRANT
	⊕ WATER - GATE VALVE

**CONTROL POINT TABLE**


POINT NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
200	687012.712	2372372.386	658.60	GPS CONTROL POINT SET IRC
201	686506.200	2372326.277	658.76	GPS CONTROL POINT SET IRC
635	686244.341	2372308.298	652.44	SURVEY CONTROL POINT SET IRC
639	686013.663	2372265.949	647.39	SURVEY CONTROL POINT SET IRC
2000	686522.384	2372372.512	659.73	CROSS CUT FND

BASIS OF COORDINATES: ALL DISTANCES AND COORDINATES SHOWN HEREON ARE GROUND (GRID SCALED) VALUES AND REFERENCED TO ILLINOIS STATE PLANE COORDINATE SYSTEM, WEST ZONE.

LINEAR UNIT: US SURVEY FEET (SFT)  
 GEODETIC DATUM: NAD 83 (2011)  
 VERTICAL DATUM: NAVD 88 (GEOID 12B)  
 PROJECT LOCATION:  
 LATITUDE: 38°33'07.34876"N      NORTHING: 686603.181 SFT  
 LONGITUDE: 89°54'05.93341"W      EASTING: 2372371.609 SFT  
 HEIGHT: 566.892 FT      ELEV: 667.47 FT  
 CM SCALE FACTOR: 1.0000793142

CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY	CODE NO.	PAY ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	1479	40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	313	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	52
20800150	TRENCH BACKFILL	CU YD	816	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	71	Δ 72000100	SIGN PANEL - TYPE 1	SQ FT	22
25000110	SEEDING, CLASS 1A	ACRE	1	42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	474	Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	7457	Δ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	114
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	42400800	DETECTABLE WARNINGS	SQ FT	16	Δ 76000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2021
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	44000100	PAVEMENT REMOVAL	SQ YD	2792	Δ 76000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	52
25100115	MULCH, METHOD 2	ACRE	1	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	700	Δ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12
25100630	EROSION CONTROL BLANKET	SQ YD	1079	44000300	CURB REMOVAL	FOOT	328	Δ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	44000600	SIDEWALK REMOVAL	SQ FT	1318	* Z0016702	DETOUR SIGNING	LSUM	1
28000400	PERIMETER EROSION BARRIER	FOOT	889	48101620	AGGREGATE SHOULDERS, TYPE B 10"	SQ YD	23	* Z0034212	MECHANICALLY STABILIZED EARTH RETAINING WALL, SPECIAL	SQ FT	1845
28000500	INLET AND PIPE PROTECTION	EACH	13	50105220	PIPE CULVERT REMOVAL	FOOT	109	* LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	3615	50200100	STRUCTURE EXCAVATION	CU YD	627	* X0322024	TRENCH DRAIN	EACH	1
30201500	LIME	TON	70	550A2320	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 1 12"	FOOT	271	* X0325299	INLET MODIFICATION	EACH	1
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	829	550A2520	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 12"	FOOT	999	* X1700065	POTHOLING	EACH	15
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	236	550A2530	STORM SEWERS, RUBBER GASKET, CLASS A, TYPE 2 15"	FOOT	332	* X020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH	5
40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	44	60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	7	* X020075	INLETS, TYPE B, TYPE 3V FRAME AND GRATE	EACH	5
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	500	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6 18	FOOT	1923	* X024242	INLETS, SPECIAL, NO. 1	EACH	1
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1257	67100100	MOBILIZATION	LSUM	1	* X026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	1
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19 0, N70	TON	1322	70300100	SHORT TERM PAVEMENT MARKING	FOOT	100	* X0300130	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	FOOT	352
				70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	34	* X0640550	CHAIN LINK FENCE, 4' (SPECIAL)	FOOT	337
				70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2021	* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
								* X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	647

**THOUVENOT, WADE & MOERCHEN, INC.**  
ENGINEERS ♦ SURVEYORS ♦ PLANNERS



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**PROFESSIONAL REGISTRATIONS**

ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
PROFESSIONAL ENGINEERING CORP.	81-003370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005292
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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SHILOH STATION RD. PHASE 6 AND 7  
SUMMARY OF QUANTITIES  
16-00011-06-PV/17-00011-07-PV

PROJECT: SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7  
VILLAGE OF SHILOH  
ST. CLAIR COUNTY, ILLINOIS

REV	DATE	DESCRIPTION
Δ		
Δ		
Δ		

DRAWN BY	LEM	SHEET
DESIGNED BY	NTS	3
CHECKED BY	NTS	OF 47 SHEETS
APPROVED BY	NTS	
PROJECT NUMBER	125160010A	SHILOH STATION ROAD PHASE 6 & 7

ISSUED FOR REVIEW     ISSUED FOR BIDDING  
 ISSUED FOR CONSTR.     RECORD DRAWING

~ Z0016600 TRAINEEES Hour 500  
~ Z0016604 TRAINEEES TRAINING PROGRAM GRADUATE Hour 500

~ = 0042  
Δ SPECIALTY ITEMS  
* SEE PROJECT SPECIAL PROVISIONS



- CORPORATE OFFICE**  
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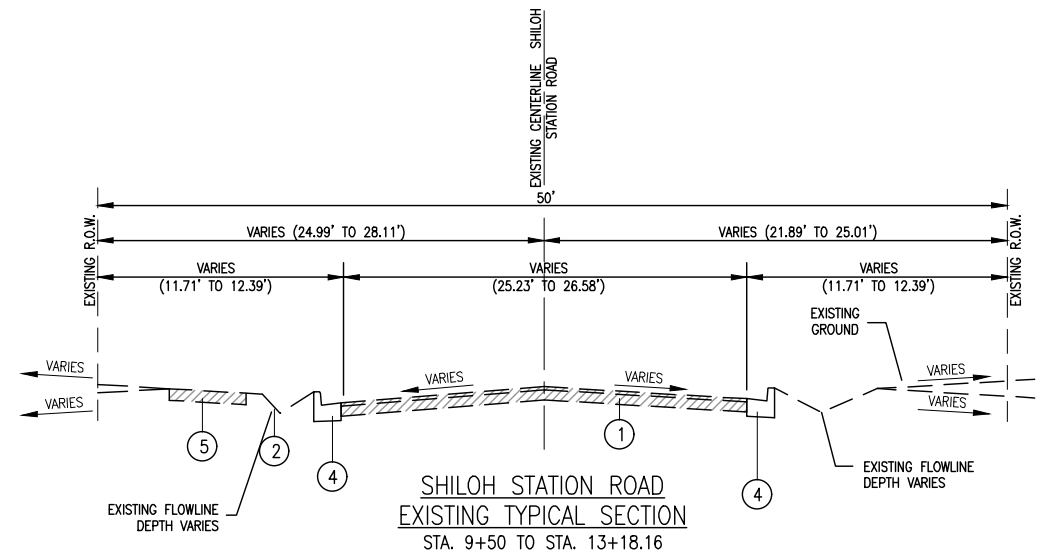
**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 TYPICAL SECTIONS  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

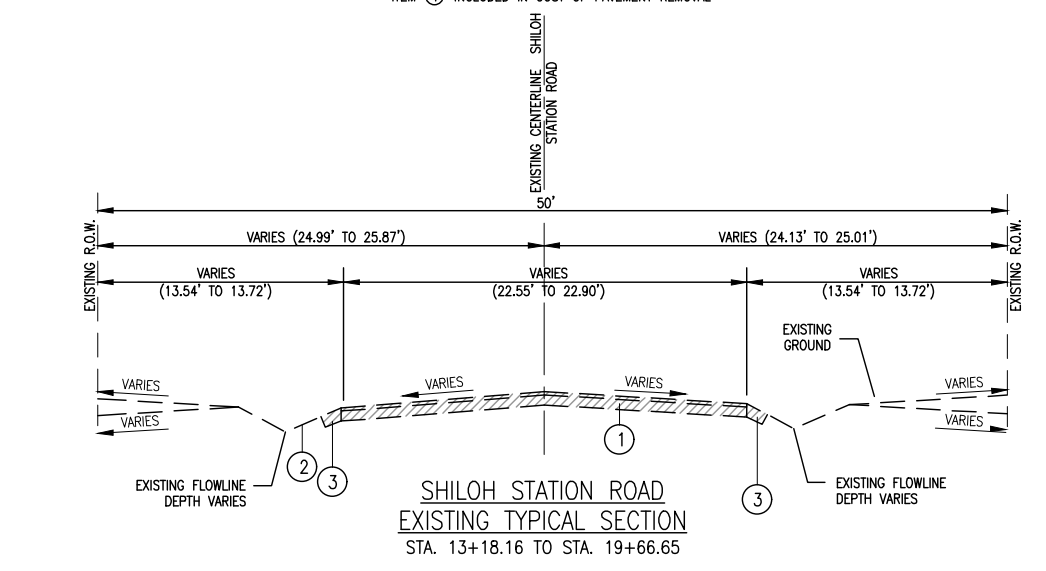
REV	DATE	DESCRIPTION

DRAWN BY: LEM	SHEET 4
DESIGNED BY: NTS	OF 47 SHEETS
CHECKED BY: NTS	
APPROVED BY: NTS	
PROJECT NUMBER: T25160010A	SHILOH STATION ROAD PHASE 6 & 7

- ISSUED FOR REVIEW
- ISSUED FOR BIDDING
- ISSUED FOR CONSTR.
- RECORD DRAWING



ITEM ① INCLUDED IN COST OF PAVEMENT REMOVAL



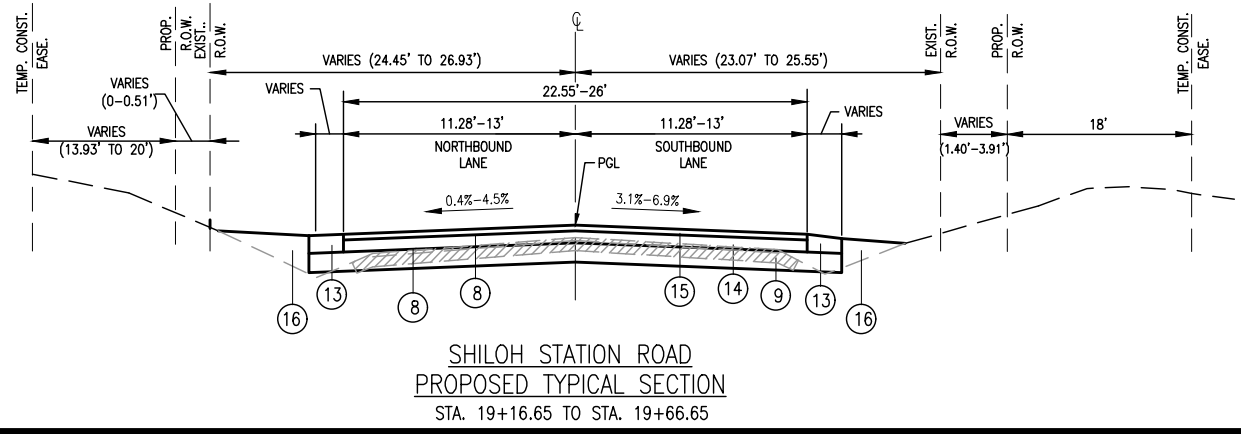
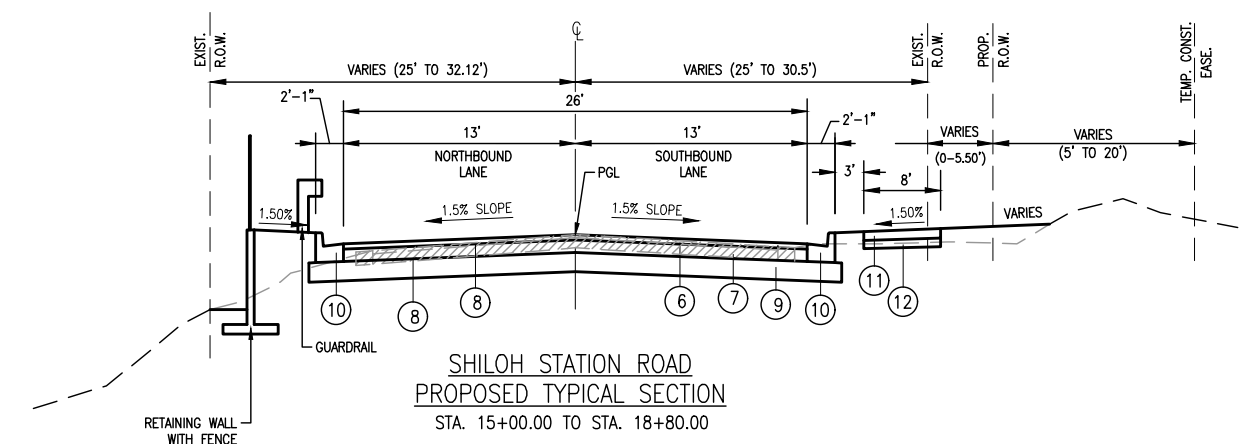
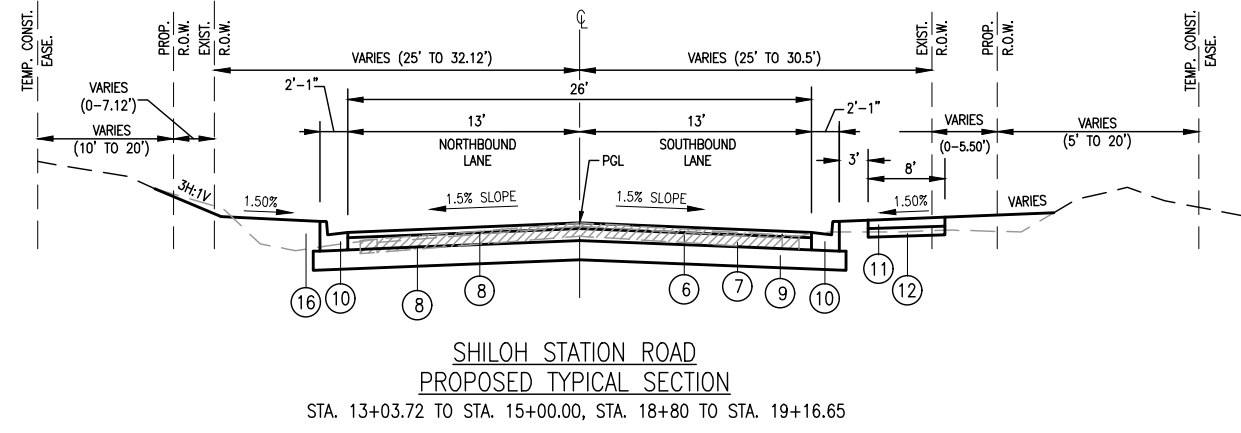
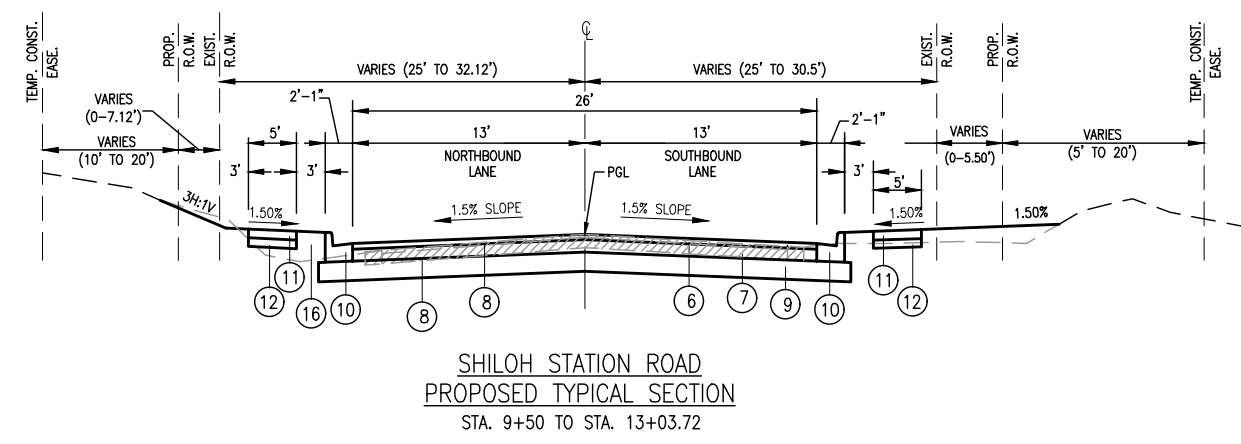
ITEM ① INCLUDED IN COST OF PAVEMENT REMOVAL

**LEGEND**

- ① EXISTING PAVEMENT (ASSUMED 6" THICKNESS)
- ② EXISTING GROUND
- ③ EXISTING GRAVEL SHOULDERS
- ④ EXISTING CURB AND GUTTER
- ⑤ EXISTING SIDEWALK
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 2"
- ⑦ PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL19.0, N70, 8 1/2"
- ⑧ PROPOSED BITUMINOUS MATERIALS-TACK COAT
- ⑨ PROPOSED PROCESSING MODIFIED SOIL, 12" (MINIMUM 1' OUTSIDE BACK OF CURB)
- ⑩ PROPOSED COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18
- ⑪ PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 4"
- ⑫ PROPOSED AGGREGATE BASE COURSE, TYPE B, 4"
- ⑬ PROPOSED AGGREGATE SHOULDERS, TYPE B, 10"
- ⑭ PROPOSED AGGREGATE BASE COURSE, TYPE B, 8"
- ⑮ PROPOSED INCIDENTAL HMA SURFACING, 3"
- ⑯ PROPOSED FILL
- ▨ HATCHED AREA INDICATES ITEM TO BE REMOVED

MIXTURE USE	SURFACE (4)	BINDER (5)	INCIDENTAL SURFACE (12)
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISIONS		
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 19.0		
FRICITION AGG	MIXTURE C	MIXTURE B	MIXTURE C

UNIT WEIGHT USED TO CALCULATE ALL ASPHALT PAVEMENT IS 0.056 TONS/SQ YD/INCH  
RESIDUAL ASPHALT RATE USED TO CALCULATE TACK COAT IS 0.0.5 LBS/SQ FT



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REMOVAL SCHEDULE								
FROM LOCATION STATION, DIRECTION	TO LOCATION STATION, DIRECTION	PAVEMENT REMOVAL (SQ YD)	DRIVEWAY PAVEMENT REMOVAL (SQ YD)	PIPE CULVERT REMOVAL (FOOT)	CURB REMOVAL (FOOT)	SIDEWALK REMOVAL (SQ FT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)	SANITARY MANHOLES TO BE ADJUSTED (EACH)
9+55	19+66.65	2688					34	
9+55 RT	9+61.56 RT				6.6			
9+55 LT	9+61.67 LT				6.7			
9+55 LT								
9+55 LT	13+18.16 LT					1317.5		
10+03.31 LT	13+17.81 LT				314.5			
10+13.64 RT	-		93	22				
10+87.96 RT	-		77	20				
10+88.20 LT	-		78					
11+14.41								1
11+52.62 LT	-		28					
11+72.25 RT	-		77					
12+18.02 RT	-		65	21				
13+30.98 LT	-		84					
14+40.27 RT	-		56	21				
14+48.89 LT	-		38	25				
16+64.44 RT	-		68					
20+00.00 RT	24+20.00 RT	104						
25+60.00 RT			35					
TOTAL		2792	700	109	328	1318	34	1

PAVING AND SIDEWALK SCHEDULE																
FROM LOCATION STATION, DIRECTION	TO LOCATION STATION, DIRECTION	PROCESING MODIFIED SOILS (SQ YD)	LIME (TON)	AGGREGATE BASE COURSE TYPE B - 4" (SQ YD)	HOT - MIX ASPHALT BINDER COURSE IL - 19.0, N 70 (TON)	HOT - MIX ASPHALT SURFACE COURSE MIX "C", N 70 (TON)	BITUMINOUS MATERIALS (TACK COAT) (POUND)	PORTLAND CEMENT CONCRETE SIDEWALK - 4" (SQ FT)	DETECTABLE WARNINGS (SQ FT)	COMBINATION CONCRETE CURB & GUTTER TYPE B - 6.18 (FOOT)	STEEL PLATE BEAM GUARDRAIL TYPE A (SPECIAL)	TRAFFIC BARRIER TERMINAL TYPE 1	AGGREGATE SHOULDERS TYPE B - 10" (SQ YD)	TERMINAL MARKERS (EACH)	GUARDRAIL RELECTORS, TYPE A (EACH)	
9+50	19+16.65					312.8	1256.6									
9+55	19+16.65				1322.4					1923.3						
9+55	19+66.65	3615.0	69.6													
9+55 LT	10+76.91 LT			67.5				607.7								
9+55 RT	10+02.60 RT			26.4				237.3								
10+24.68 RT	10+76.77 RT			28.9				260.5								
10+99.14 RT	11+60.53 RT			34.1				307.0								
10+99.48 LT	11+44.41 LT			25.0				224.8								
11+60.84 LT	12+70.87 LT			61.1				550.2								
11+83.95 RT	12+05.63 RT			12.0				108.4								
12+30.40 RT	14+25.08 RT			150.3				1352.3								
12+89.87 LT	13+15.57 LT			15.1				135.5								
13+02.72									16.0							
14+55.45 RT	16+52.59 RT			173.4				1561.0								
14+81.50 LT	15+19.00 LT											1		1		
15+19.00 LT	18+86.50 LT										352					8
16+75.32 RT	19+16.65 RT			234.7				2112.0								
18+86.50 LT	19+24.00 LT											1		1		
19+16.65	19+66.65												23.2			
TOTAL		3615.0	69.6	828.5	1322.4	312.8	1256.6	7456.7	16.0	1923.3	352	2	23.2	2		8

ENTRANCE AND SIDEROAD SCHEDULE								
LOCATION STATION, DIRECTION	ENTRANCE TYPE	"L" ADJUSTMENT LENGTH OF DRIVE BEHIND ENTRANCE APRON (FEET)	AGGREGATE BASE COURSE TYPE B - 6" (SQ YD)	AGGREGATE BASE COURSE TYPE B - 8" (SQ YD)	AGGREGATE SURFACE COURSE, TYPE A 6" (SQ YD)	INCIDENTAL HOT-MIX ASPHALT SURFACING (TON)	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6" (SQ YD)	AGGREGATE FOR TEMPORARY ACCESS (TON)
10+13.64 RT	PRIVATE-CONCRETE	35.3					88.1	20.0
10+87.96 RT	PRIVATE-CONCRETE	25.9					71.7	30.0
10+88.20 LT	PRIVATE-ASPHALT		61.5			10.3	24.7	30.0
11+52.62 LT	PRIVATE-ASPHALT	14.0	17.2			2.9	16.3	35.0
11+72.25 RT	PRIVATE-CONCRETE	25.0					73.7	35.0
12+18.02 RT	PRIVATE-CONCRETE	17.5					62.3	45.0
12+80.37 LT	PRIVATE-NEW APRON	0.0					18.6	45.0
13+30.98 LT	PRIVATE-ASPHALT	19.8	56.0			9.4	28.9	55.0
14+40.27 RT	PRIVATE-GRAVEL	11.1			25.1		37.9	65.0
14+48.89 LT	PRIVATE-ASPHALT	11.3	19.1			3.2	20.6	65.0
16+64.44 RT	PRIVATE-ASPHALT	-			18.5		31.7	75.0
19+16.65	END JOINT-ASPHALT			131.7		22.1		
20+00.00 to 24+20.00	EDGE OF ROAD			103.8		17.4		
25+60.00 RT	PRIVATE-ASPHALT		34.8			5.9		
TOTAL		-	188.6	236	43.6	71.3	474.4	500.0

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ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 SCHEDULES OF QUANTITIES 16-00011-06-PV/17-00011-07-1PV

**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

REV.	DATE	DESCRIPTION
△		
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△		

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>5</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
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EROSION CONTROL AND SEEDING SCHEDULE										
FROM LOCATION STATION, DIRECTION	TO LOCATION STATION, DIRECTION	TEMPORARY EROSION CONTROL SEEDING (LBS)	PERIMETER EROSION BARRIER (FOOT)	INLET & PIPE PROTECTION (EACH)	SEEDING CLASS 1A (ACRES)	NITROGEN FERTILIZER NUTRIENT (LBS)	PHOSPHOROUS FERTILIZER NUTRIENT (LBS)	POTASSIUM FERTILIZER NUTRIENT (LBS)	MULCH METHOD 2 (ACRES)	EROSION CONTROL BLANKET (SQ YD)
9+50	19+66.65	100			1	90	90	90	1	
9+50 LT	10+79 LT		129							
10+01.10 LT				1						
10+01.10 RT				1						
10+88.19 LT				1						
10+97 LT	11+47 LF		50							
12+60.00 LT				1						
12+60.00 RT				1						
13+50 RT	15+50 RT		200							
13+86.71 LT				1						
13+86.71 RT				1						
14+56 LT	19+66 LT		510							
15+17.78 LT				1						
15+17.78 RT				1						
16+71.50 RT	27+06.50 RT									1078.6
16+92.86 LT				1						
16+92.86 RT				1						
18+56.38 LT				1						
18+56.38 RT				1						
TOTAL		100	889	13	1	90	90	90	1	1078.6

EARTHWORK SCHEDULE					
FROM LOCATION STATION	TO LOCATION STATION	EARTH EXCAVATION (CY)	EMBANKMENT (CY)	25% SHRINKAGE FACTOR APPLIED	BALANCE WASTE (+) SHORTAGE (-) (CY)
NOTE: PAVEMENT THICKNESS ASSUMED TO BE 6"					
9+50	19+66.65	1479	213	1109	896
TOTALS					
TOTAL EARTH EXCAVATION			TOTAL FURNISHED EXCAVATION		

STORM SEWER AND DRAINAGE STRUCTURES											
FROM LOCATION STATION, DIRECTION	TO LOCATION STATION, DIRECTION	STORM SEWERS RUBBER GASKET CLASS A, TYPE 1-12" (FOOT)	STORM SEWERS RUBBER GASKET CLASS A, TYPE 2-12" (FOOT)	STORM SEWERS RUBBER GASKET CLASS A, TYPE 2-15" (FOOT)	TRENCH DRAIN (EACH)	INLETS TYPE B 3' DIAMETER TYPE 3V FRAME AND GRATE (EACH)	INLETS TYPE B 3' DIAMETER TYPE 1 CLOSED LID (EACH)	INLETS, SPECIAL NO. 1	INLETS TYPE A TYPE 3V FRAME AND GRATE (EACH)	INLET MODIFICATION (EACH)	TRENCH BACKFILL (CY)
9+99.80 LT								1			
10+01.10 RT										1	
10+80.41 LT	10+95.98 LT				1						
12+60.00 LT									1		4.8
12+60.00 RT	12+60.00 RT	29				1					
12+60.00 RT	13.86.71 RT	126									19.6
13+86.71 LT									1		
13+86.71 LT	13+86.71 RT	29									3.4
13+86.71 RT						1					
13+86.71 RT	15+17.78 RT		127								80.8
15+17.78 LT									1		
15+17.78 LT	15+17.78 RT	29									4.2
15+17.78 RT						1					
15+17.78 RT	16+92.86 RT		177								112.6
16+92.86 LT									1		
16+92.86 LT	16+92.86 RT	29									4.2
16+92.86 RT						1					
16+92.86 RT	17+46.35 RT		57								36.3
17+46.35 RT							1				
17+46.35 RT	18+02.89 RT		60								38.2
18+02.89 RT							1				
18+02.89 RT	18+56.38 RT		57								36.3
18+56.36 LT									1		
18+56.36 LT	18+56.38 RT	29									4.2
18+56.38 RT						1					
18+56.38 RT	19+16.65 RT		64								39.7
19+16.65 RT							1				
19+16.65 RT	20+33.56 RT		117								87.5
20+33.56 RT							1				
20+33.56 RT	22+08.55 RT		175								131.1
22+08.55 RT							1				
22+08.55 RT	23+73.69 RT		165								103.1
23+73.69 RT							1				
23+73.69 RT	25+39.22 RT			165							49.1
25+39.22 RT							1				
25+39.02 RT	27+06.49 RT			167							61.3
TOTAL		271.0	999.0	332.0	1	5	7	1	5	1	816.4

**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 SCHEDULES OF QUANTITIES 16-00011-06-PV/17-00011-07-PV

**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

REV	DATE	DESCRIPTION
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DESIGNED BY: NTS	<b>6</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
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PAVEMENT MARKING SCHEDULE											
FROM LOCATION STATION, DIRECTION	TO LOCATION STATION, DIRECTION	TYPE	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (FOOT)	TEMPORARY PAVEMENT MARKING - LINE 4" (FOOT)	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (FOOT)	TEMPORARY PAVEMENT MARKING - LINE 6" (FOOT)	SHORT TERM PAVEMENT MARKING (FOOT)	RAISED REFLECTIVE PAVEMENT MARKERS (EACH)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	SIGN PANEL - TYPE 1 (SQ.FT)	TEMPORARY PAVEMENT MARKING REMOVAL (SQ.FT)
9+50	12+99.72	DOUBLE YELLOW	699.4	699.4							233
9+50	19+16.65	TWO WAY AMBER						12			
9+50	19+66.65						100				
10+36 RT									14		
11+11 RT									14		
12+08 LT									14		
12+94 RT		(W11-2w/ W16-7P)							15	11	
12+99.72	13+05.72	CROSSWALK			52	52					
13+05.72	19+66.65	DOUBLE YELLOW	1321.9	1321.9							441
13+10 LT		(W11-2w/ W16-7P)							15	11	
13+25 RT									14		
14+57 RT									14		
14+61 LT									14		
<b>TOTAL</b>			2021	2021	52	52	100	12	114	22	674

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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7  
 SCHEDULES OF QUANTITIES  
 16-00011-06-PV/17-00011-07-PV

**PROJECT:** SHILOH STATION ROAD  
 RECONSTRUCTION - PHASE 6 AND 7  
 VILLAGE OF SHILOH  
 ST. CLAIR COUNTY, ILLINOIS

REV.	DATE	DESCRIPTION
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PROJECT NUMBER: T25160010A	

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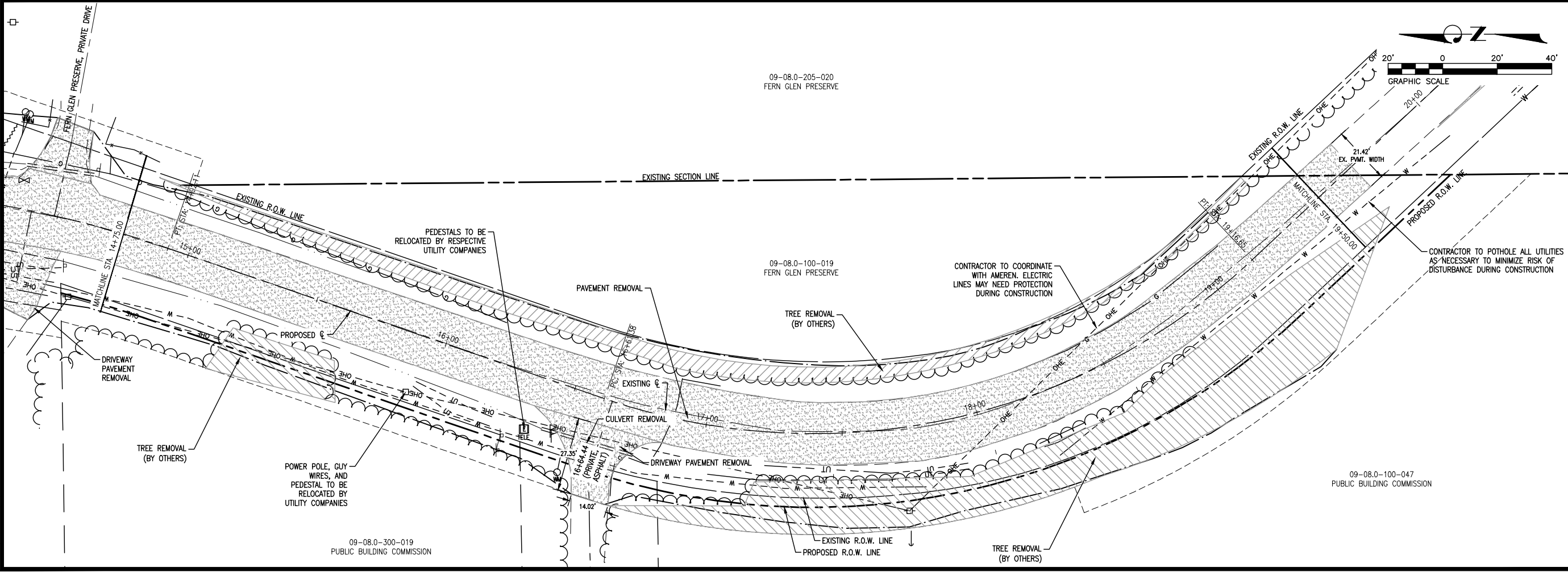
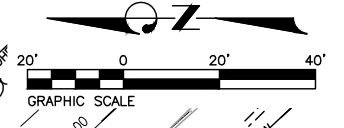
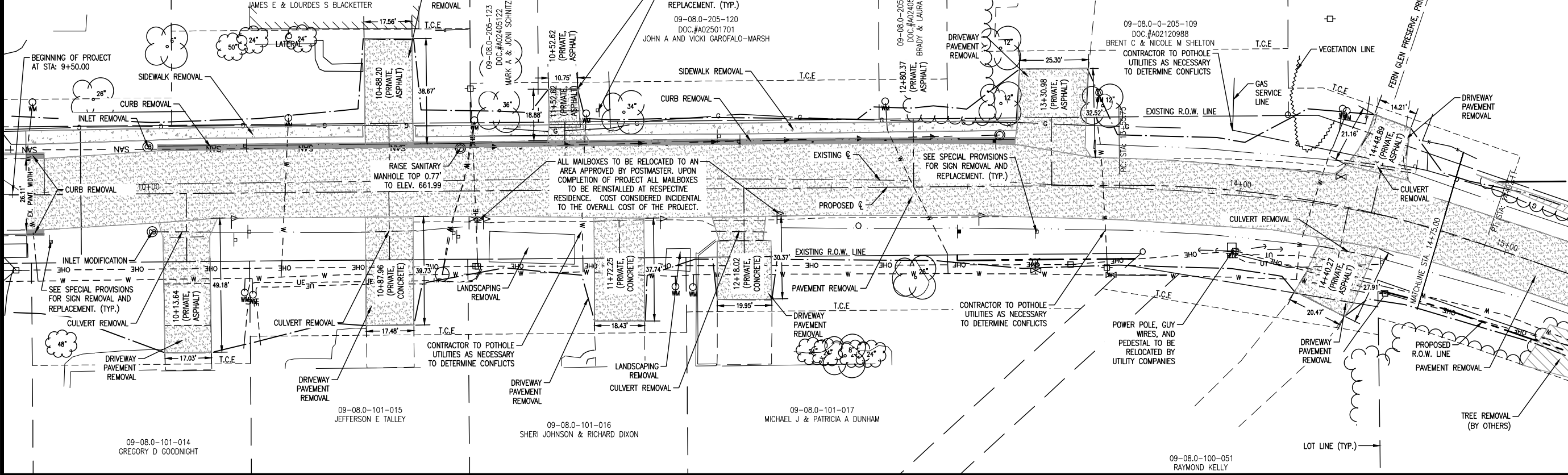
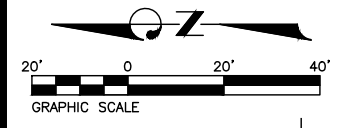
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TITLE: SHILOH STATION RD. PHASE 6 AND 7 REMOVAL PLAN  
PROJECT: SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

REV	DATE	DESCRIPTION

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>8</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: 125160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING





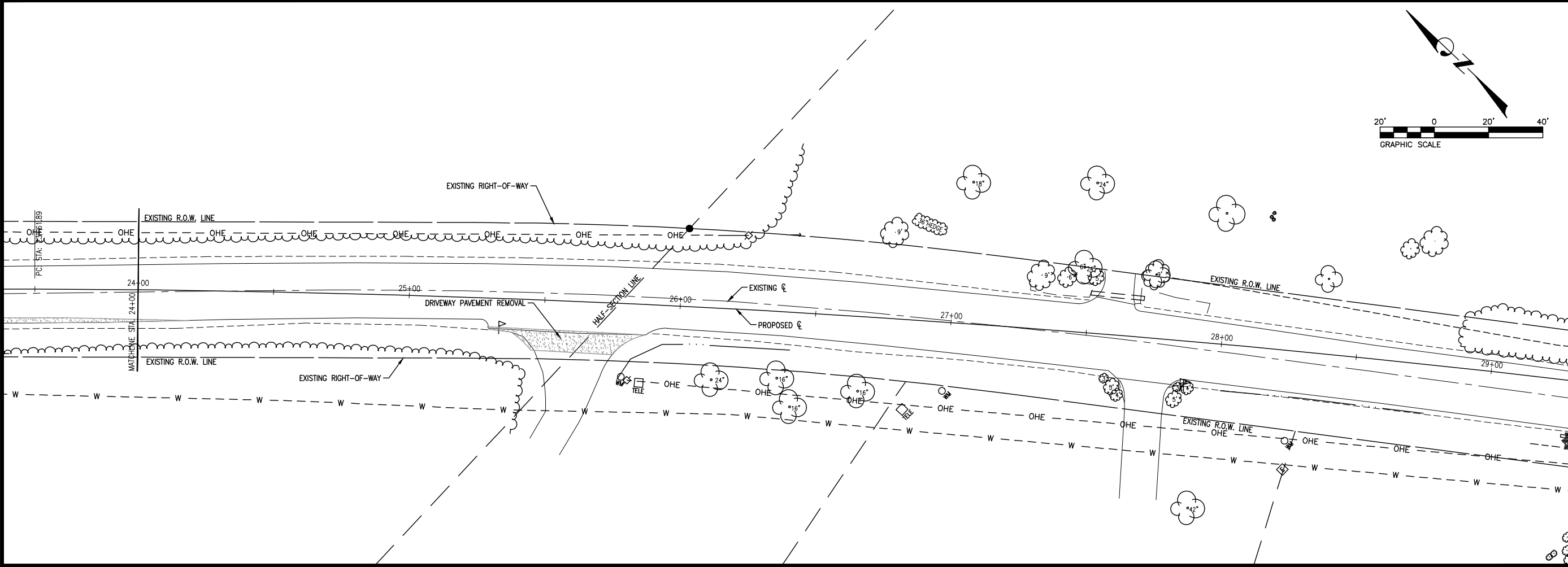
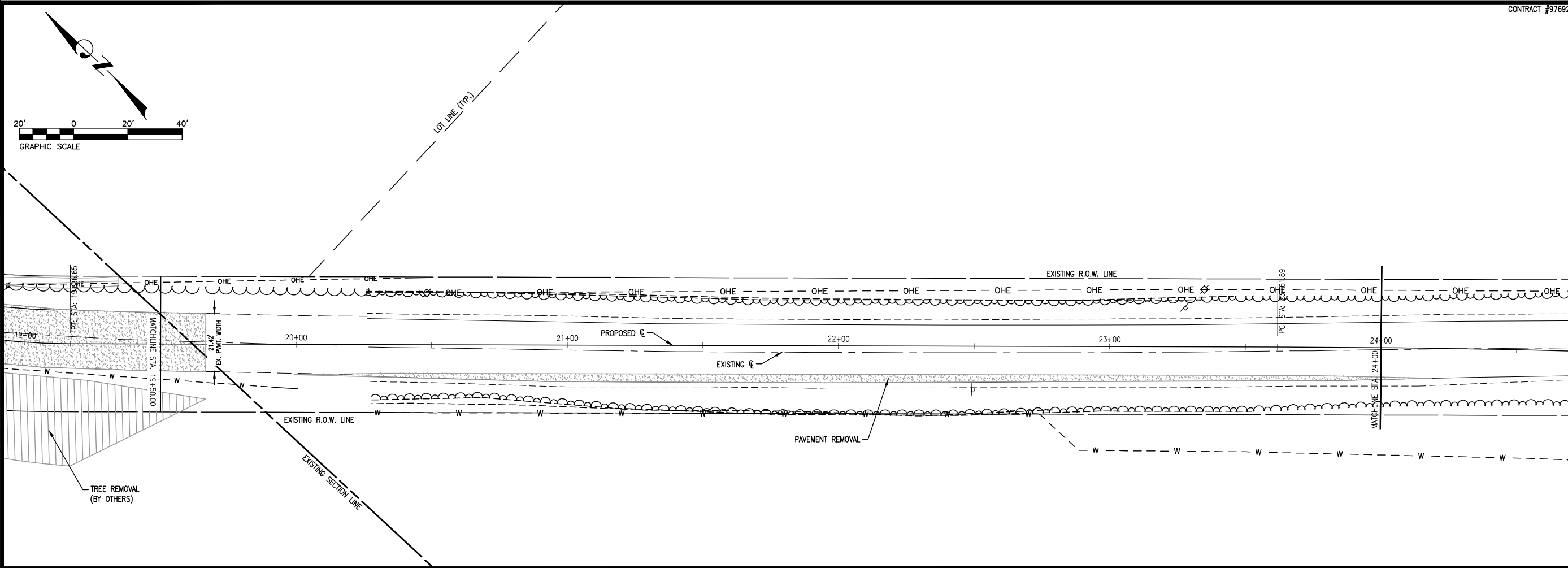
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FAX (618) 624-6688
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PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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Signature Date: _____  
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7  
REMOVAL PLAN  
16-00011-06-PV/17-00011-07-PV

**PROJECT:** SHILOH STATION ROAD  
RECONSTRUCTION - PHASE 6 AND 7  
VILLAGE OF SHILOH  
ST. CLAIR COUNTY, ILLINOIS

REV	DATE	DESCRIPTION

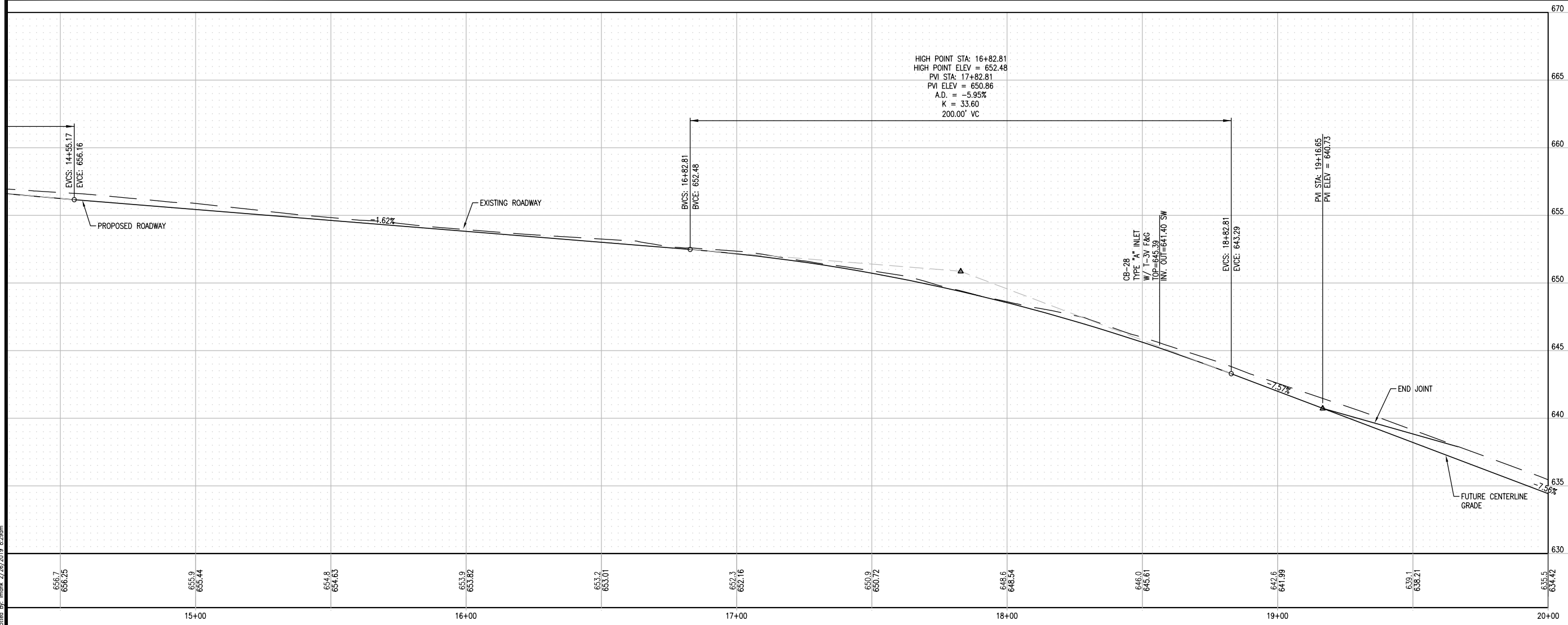
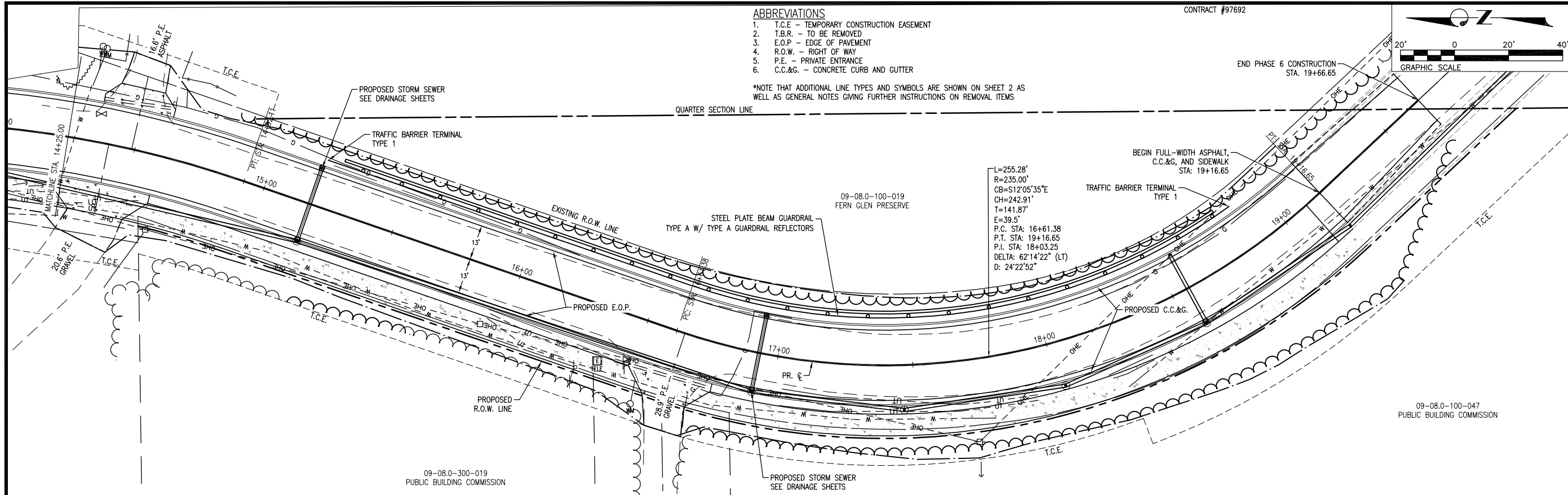
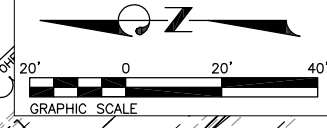
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DESIGNED BY: NTS	<b>9</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
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<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



- ABBREVIATIONS**
- T.C.E. - TEMPORARY CONSTRUCTION EASEMENT
  - T.B.R. - TO BE REMOVED
  - E.O.P. - EDGE OF PAVEMENT
  - R.O.W. - RIGHT OF WAY
  - P.E. - PRIVATE ENTRANCE
  - C.C.&G. - CONCRETE CURB AND GUTTER

*NOTE THAT ADDITIONAL LINE TYPES AND SYMBOLS ARE SHOWN ON SHEET 2 AS WELL AS GENERAL NOTES GIVING FURTHER INSTRUCTIONS ON REMOVAL ITEMS

CONTRACT #97692



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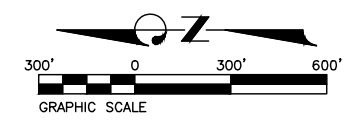
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7  
PLAN AND PROFILE  
16-00011-06-PV/17-00011-07-PV  
**PROJECT:** SHILOH STATION ROAD  
RECONSTRUCTION - PHASE 6 AND 7  
VILLAGE OF SHILOH  
ST. CLAIR COUNTY, ILLINOIS

REV.	DATE	DESCRIPTION
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DESIGNED BY: NTS	<b>11</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: 125160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING

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MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

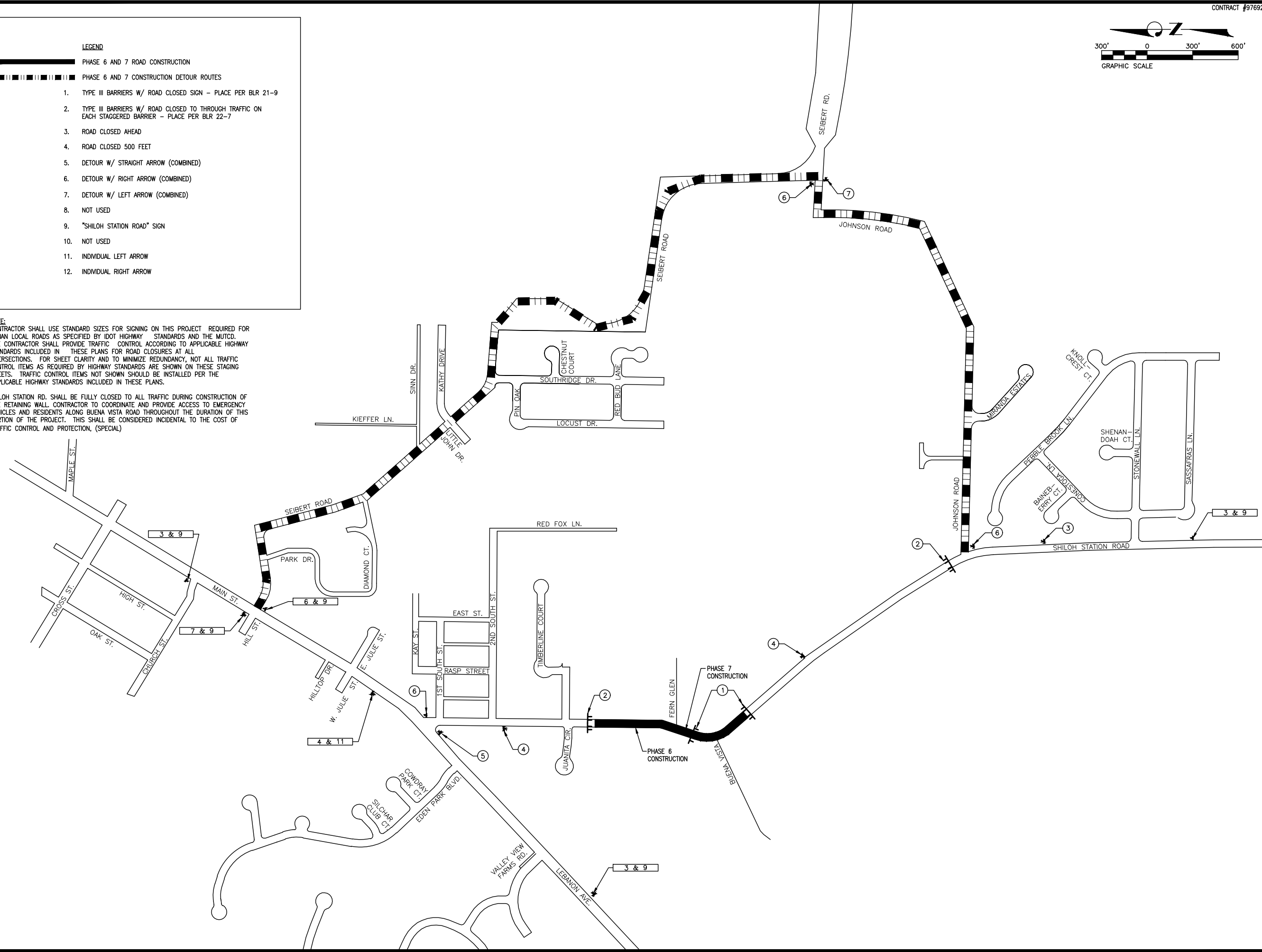
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- LEGEND**
- PHASE 6 AND 7 ROAD CONSTRUCTION
  - PHASE 6 AND 7 CONSTRUCTION DETOUR ROUTES
1. TYPE III BARRIERS W/ ROAD CLOSED SIGN - PLACE PER BLR 21-9
  2. TYPE III BARRIERS W/ ROAD CLOSED TO THROUGH TRAFFIC ON EACH STAGGERED BARRIER - PLACE PER BLR 22-7
  3. ROAD CLOSED AHEAD
  4. ROAD CLOSED 500 FEET
  5. DETOUR W/ STRAIGHT ARROW (COMBINED)
  6. DETOUR W/ RIGHT ARROW (COMBINED)
  7. DETOUR W/ LEFT ARROW (COMBINED)
  8. NOT USED
  9. "SHILOH STATION ROAD" SIGN
  10. NOT USED
  11. INDIVIDUAL LEFT ARROW
  12. INDIVIDUAL RIGHT ARROW

- NOTE:**
1. CONTRACTOR SHALL USE STANDARD SIZES FOR SIGNING ON THIS PROJECT REQUIRED FOR URBAN LOCAL ROADS AS SPECIFIED BY IDOT HIGHWAY STANDARDS AND THE MUTCD. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL ACCORDING TO APPLICABLE HIGHWAY STANDARDS INCLUDED IN THESE PLANS FOR ROAD CLOSURES AT ALL INTERSECTIONS. FOR SHEET CLARITY AND TO MINIMIZE REDUNDANCY, NOT ALL TRAFFIC CONTROL ITEMS AS REQUIRED BY HIGHWAY STANDARDS ARE SHOWN ON THESE STAGING SHEETS. TRAFFIC CONTROL ITEMS NOT SHOWN SHOULD BE INSTALLED PER THE APPLICABLE HIGHWAY STANDARDS INCLUDED IN THESE PLANS.
  2. SHILOH STATION RD. SHALL BE FULLY CLOSED TO ALL TRAFFIC DURING CONSTRUCTION OF THE RETAINING WALL. CONTRACTOR TO COORDINATE AND PROVIDE ACCESS TO EMERGENCY VEHICLES AND RESIDENTS ALONG BUENA VISTA ROAD THROUGHOUT THE DURATION OF THIS PORTION OF THE PROJECT. THIS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF TRAFFIC CONTROL AND PROTECTION. (SPECIAL)



**TITLE:** SHILOH STATION RD. PHASE 6 AND 7  
DETOUR PLAN

**PROJECT:** SHILOH STATION ROAD  
RECONSTRUCTION - PHASE 6 AND 7  
VILLAGE OF SHILOH  
ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

REV.	DATE	DESCRIPTION

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>12</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



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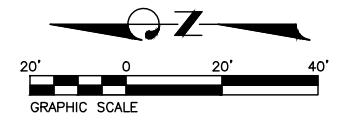
PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
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PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000209
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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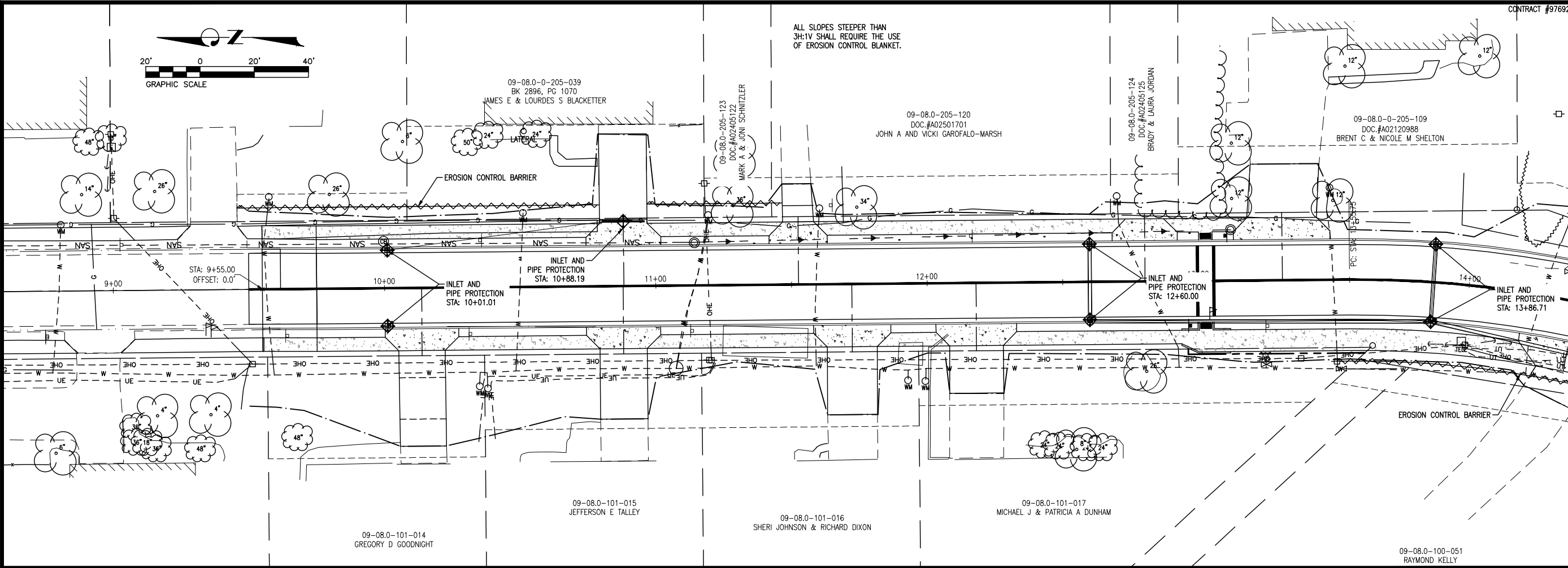
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ALL SLOPES STEEPER THAN 3H:1V SHALL REQUIRE THE USE OF EROSION CONTROL BLANKET.

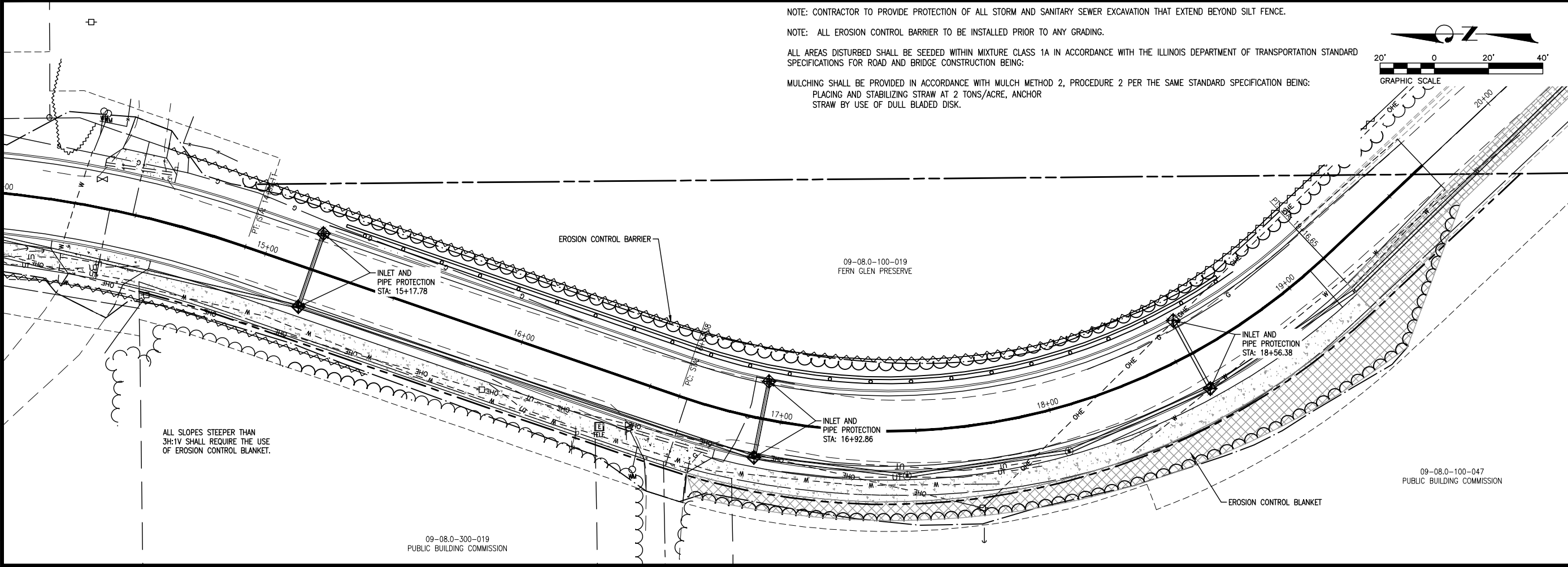
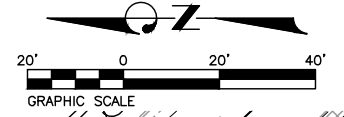


NOTE: CONTRACTOR TO PROVIDE PROTECTION OF ALL STORM AND SANITARY SEWER EXCAVATION THAT EXTEND BEYOND SILT FENCE.

NOTE: ALL EROSION CONTROL BARRIER TO BE INSTALLED PRIOR TO ANY GRADING.

ALL AREAS DISTURBED SHALL BE SEEDED WITHIN MIXTURE CLASS 1A IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION BEING:

MULCHING SHALL BE PROVIDED IN ACCORDANCE WITH MULCH METHOD 2, PROCEDURE 2 PER THE SAME STANDARD SPECIFICATION BEING: PLACING AND STABILIZING STRAW AT 2 TONS/ACRE, ANCHOR STRAW BY USE OF DULL BLADED DISK.



ALL SLOPES STEEPER THAN 3H:1V SHALL REQUIRE THE USE OF EROSION CONTROL BLANKET.

**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 EROSION CONTROL PLAN  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

REV	DATE	DESCRIPTION

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>13</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: 125160010A	

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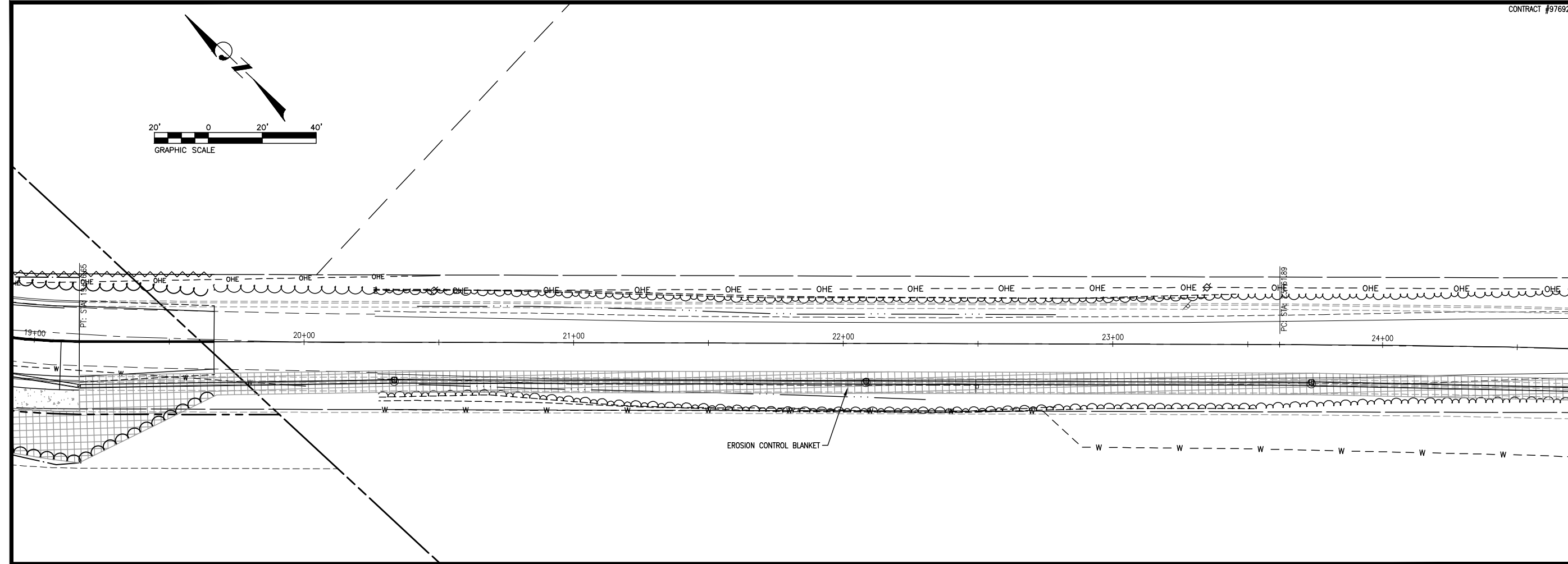
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PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
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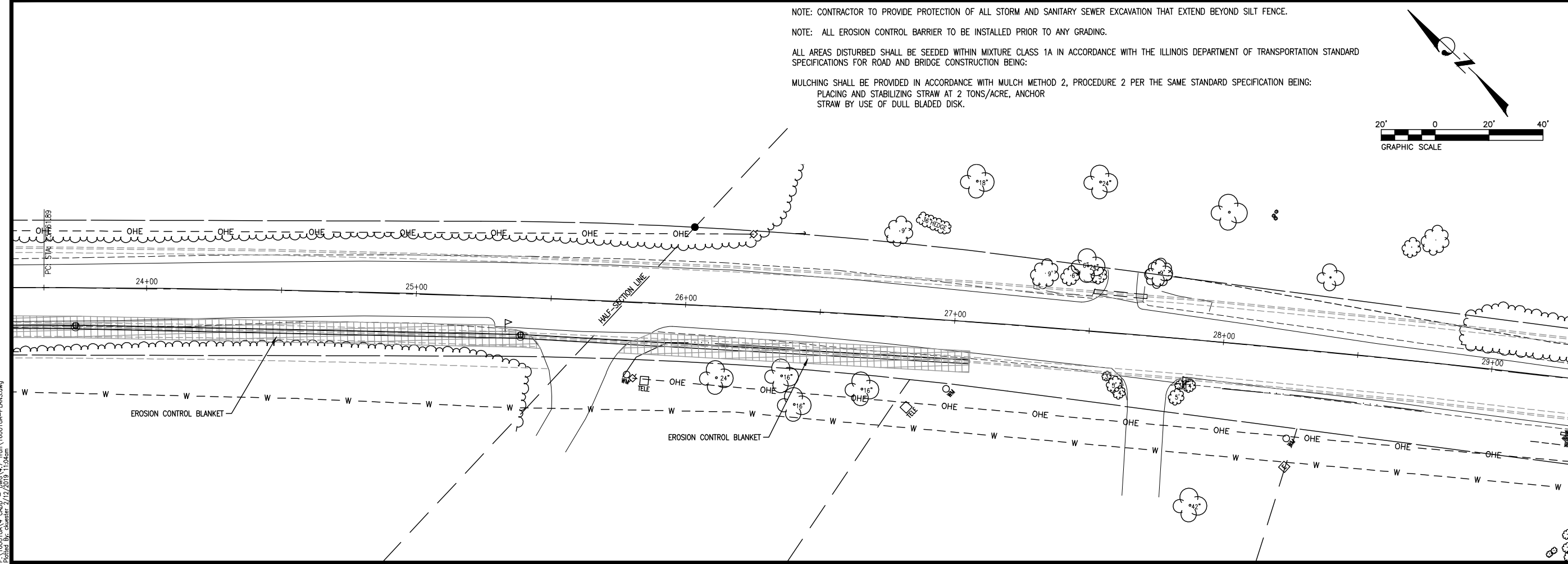


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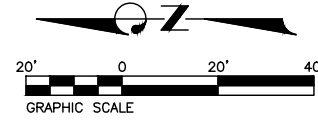


**TITLE:** SHILOH STATION RD. PHASE 6 AND 7  
EROSION CONTROL PLAN  
16-00011-06-PV/17-00011-07-PV

**PROJECT:** SHILOH STATION ROAD  
RECONSTRUCTION - PHASE 6 AND 7  
VILLAGE OF SHILOH  
ST. CLAIR COUNTY, ILLINOIS

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DRAWN BY: LEM	SHEET
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CHECKED BY: NTS	OF 47 SHEETS
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PROJECT NUMBER: T25160010A	
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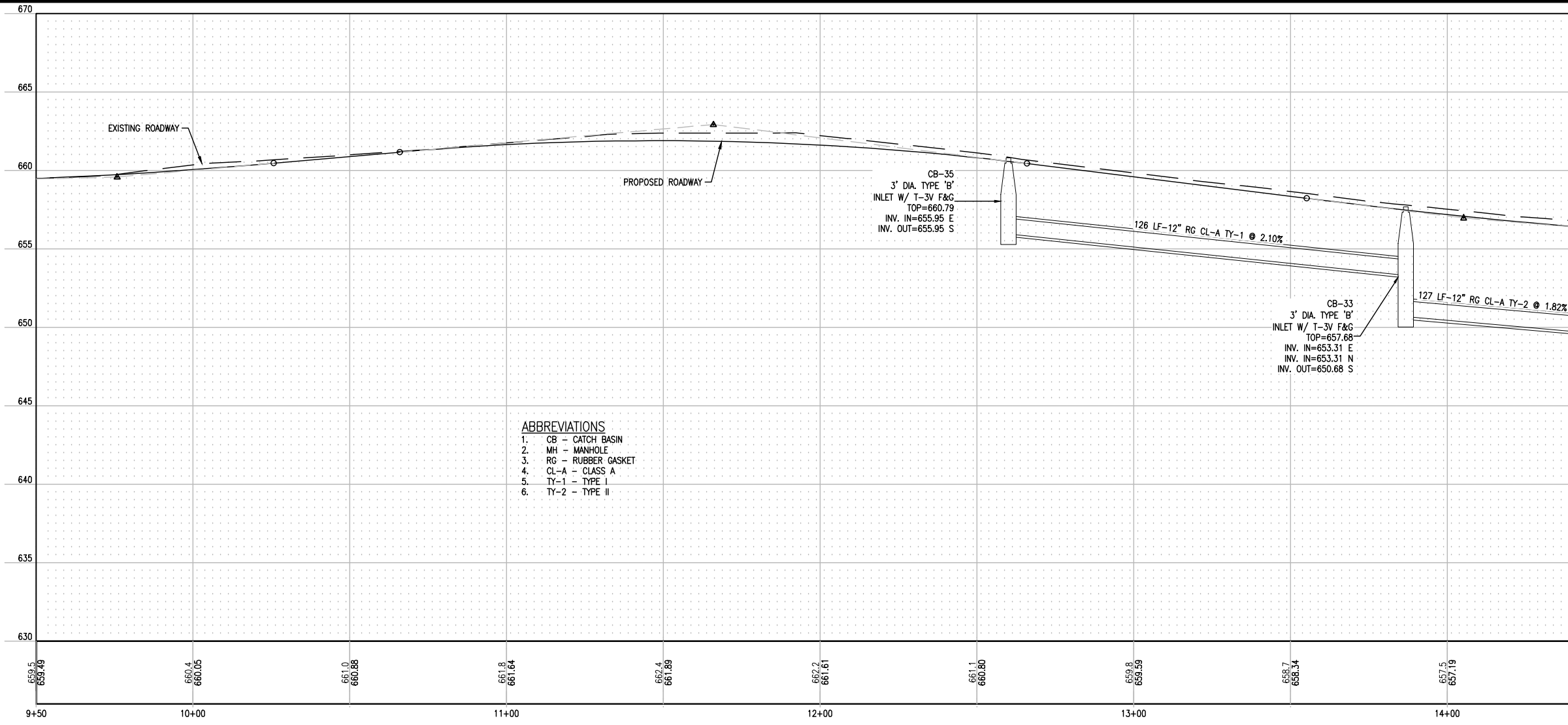
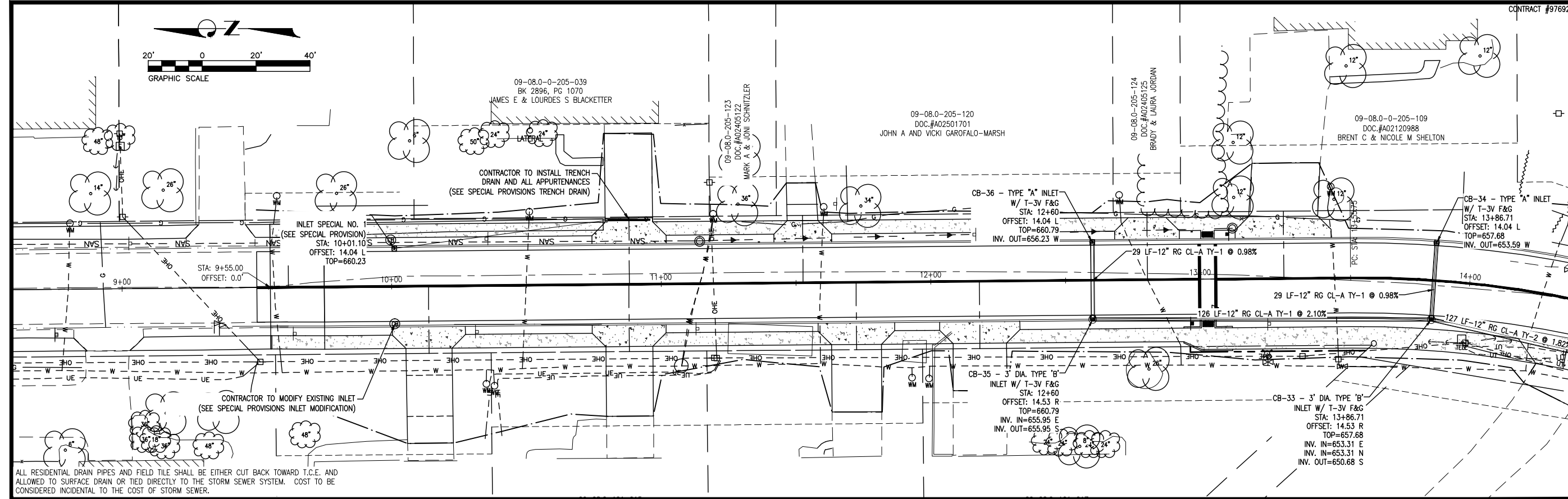
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**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

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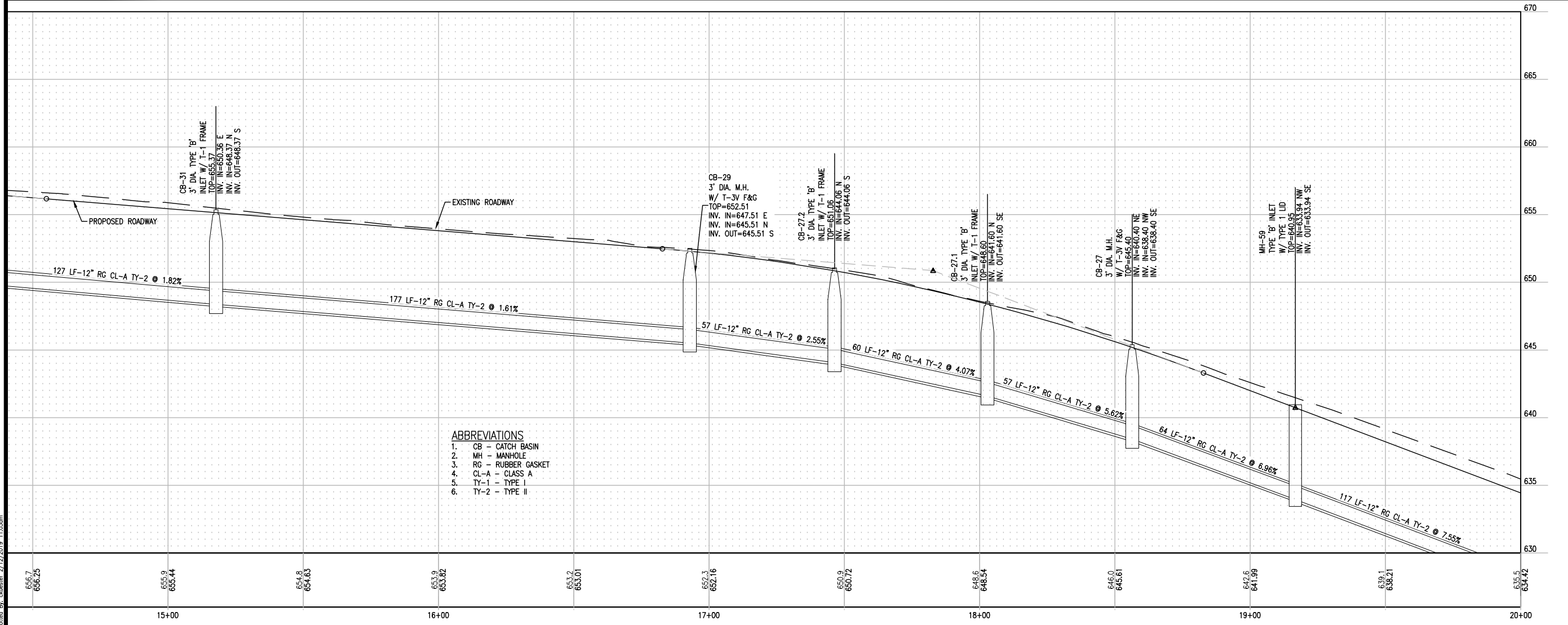
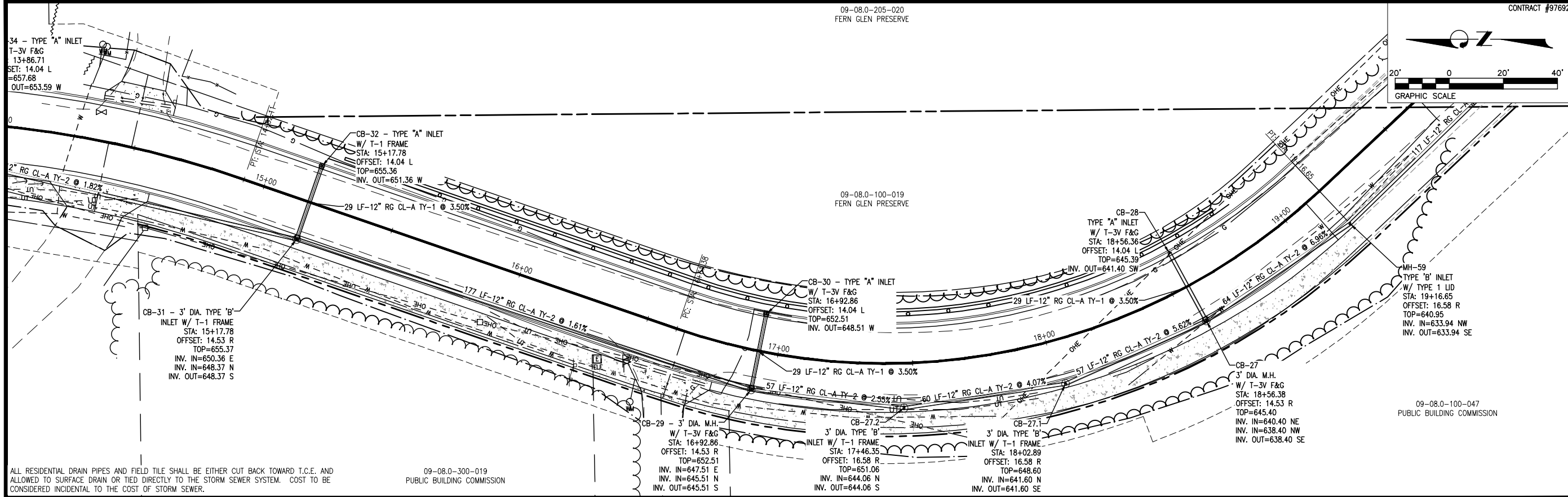
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 DRAINAGE WEST  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

REV	DATE	DESCRIPTION
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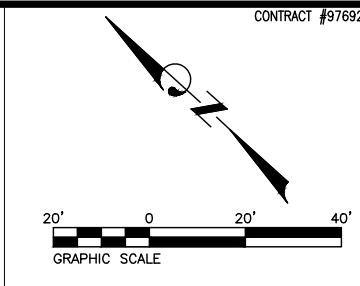
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DESIGNED BY: NTS	<b>16</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	
PROJECT NUMBER: 125160010A	SHILOH STATION ROAD PHASE 6 & 7
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<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



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STRUCTURES CB-25, CB-23, CB-21, AND CB-19 TO BE FABRICATED TO ACCOMMODATE FUTURE INSTALLATION OF A 12" RCP AT THE INVERT OF THE STRUCTURE TO OPPOSITE SIDE OF ROAD. A 3/8" THICK 2'X2' STEEL PLATE SHALL BE AFFIXED TO THE STRUCTURE TO PREVENT DIRT AND SOIL FROM ENTERING THE STRUCTURE PRIOR TO INSTALLATION OF THE CROSS-ROAD STORM SEWER IN FUTURE PHASES OF THE PROJECT. ALL ASSOCIATED COST TO BE INCLUDED IN THE COST OF THE AFOREMENTIONED STRUCTURES.



CONTRACT #97692

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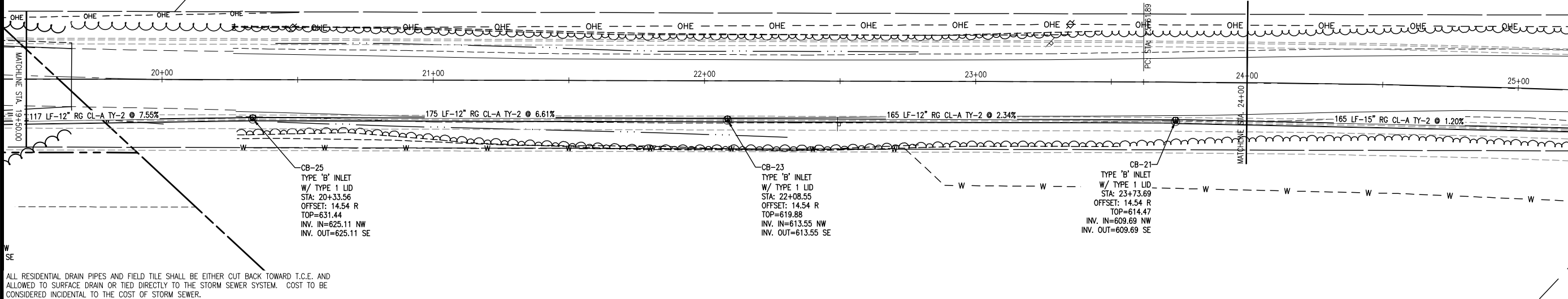
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ST. CHARLES, MISSOURI 63301  
TEL (636) 724-8300  
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PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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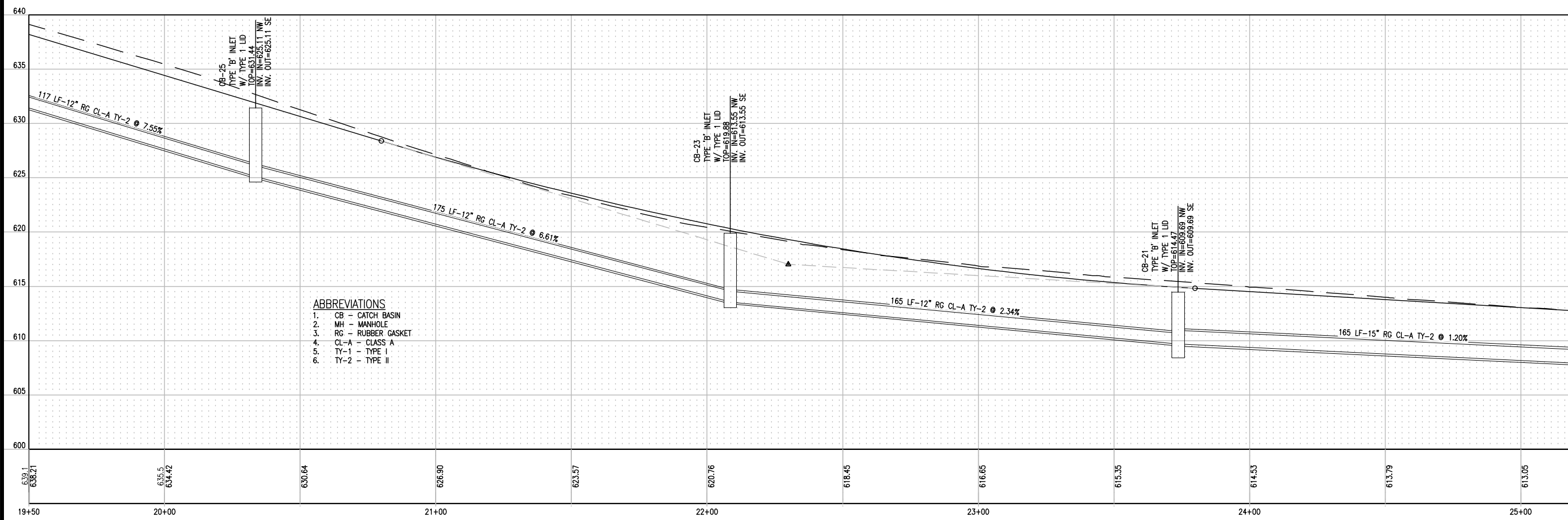
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160010A-CL (19+50.00 - 29+00.00)



- ABBREVIATIONS**
1. CB - CATCH BASIN
  2. MH - MANHOLE
  3. RG - RUBBER GASKET
  4. CL-A - CLASS A
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 DRAINAGE WEST  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

REV	DATE	DESCRIPTION

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	17
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: 125160010A	

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- ISSUED FOR BIDDING
- ISSUED FOR CONSTR.
- RECORD DRAWING

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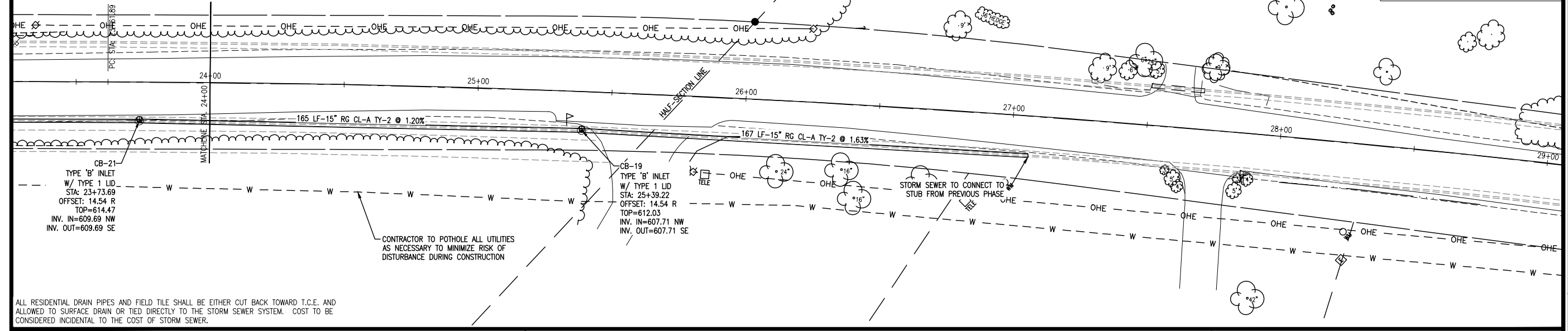
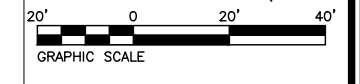
PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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Signature: _____  
Expiration Date: _____

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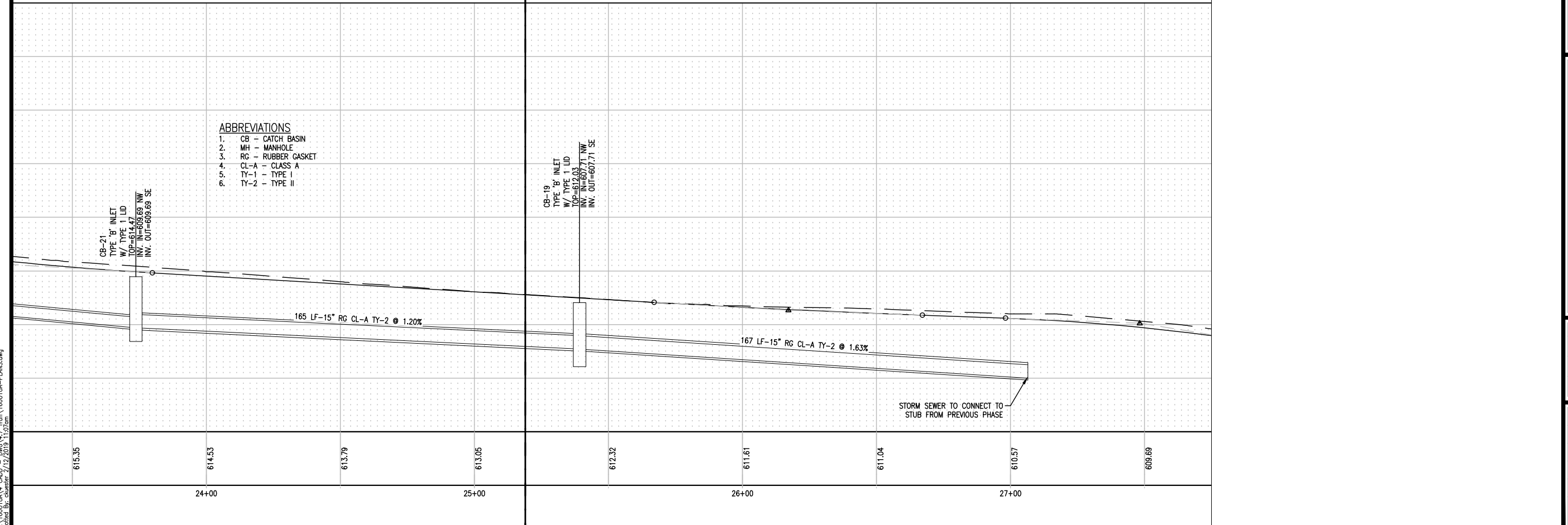
STRUCTURES CB-25, CB-23, CB-21, AND CB-19 TO BE FABRICATED TO ACCOMMODATE FUTURE INSTALLATION OF A 12" RCP AT THE INVERT OF THE STRUCTURE TO OPPOSITE SIDE OF ROAD. A 1/8" THICK 2'X2' STEEL PLATE SHALL BE AFFIXED TO THE OUTER EDGE OF THE STRUCTURE TO PREVENT DIRT AND SOIL FROM ENTERING THE STRUCTURE PRIOR TO INSTALLATION OF THE CROSS-ROAD STORM SEWER IN FUTURE PHASES OF THE PROJECT. ALL ASSOCIATED COST TO BE INCLUDED IN THE COST OF THE AFOREMENTIONED STRUCTURES.



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160010A-CL (19+50.00 - 29+00.00)

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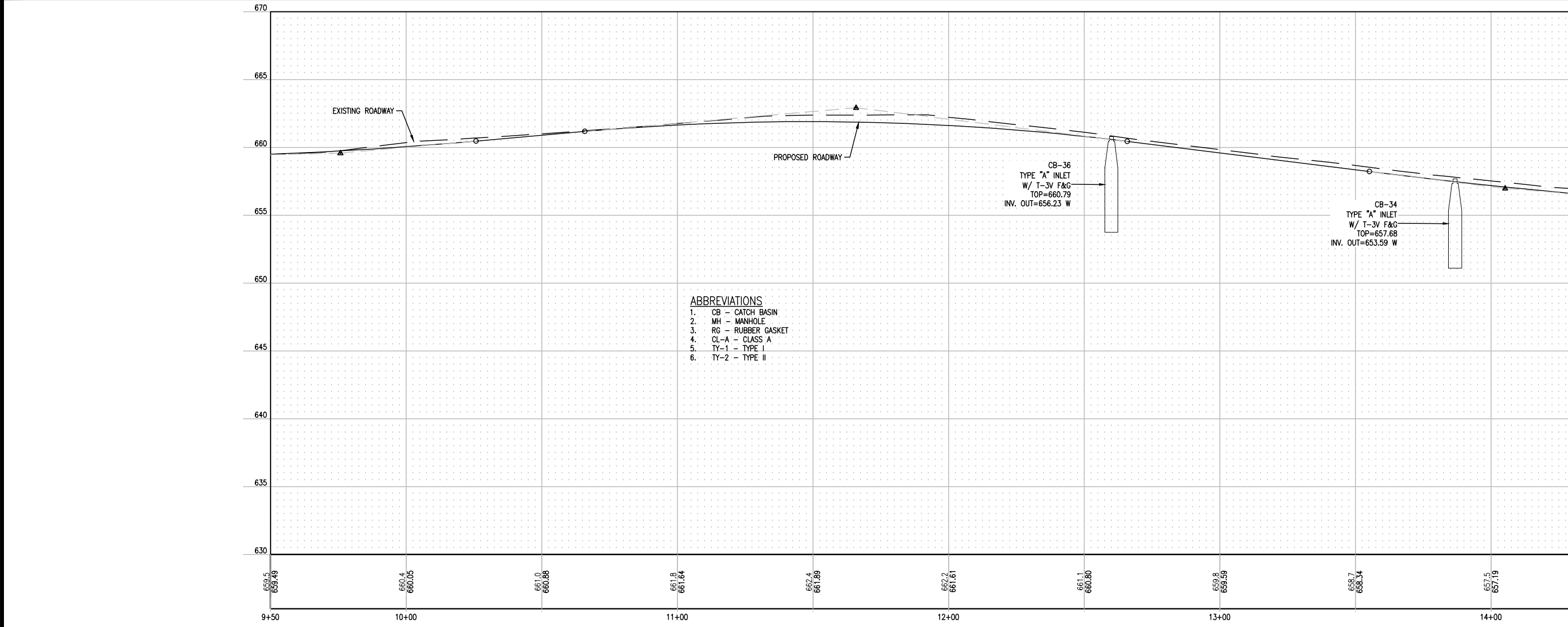
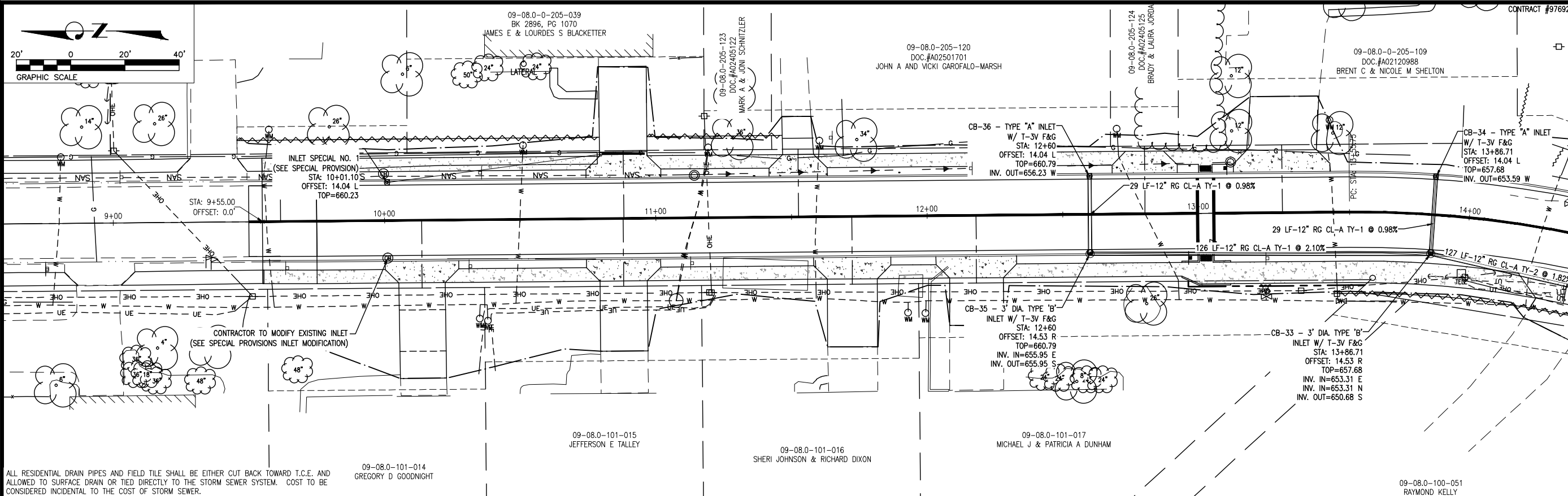


**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 DRAINAGE WEST  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

REV	DATE	DESCRIPTION
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DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>18</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: 125160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



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PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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Signature Date: _____  
Expiration Date: _____

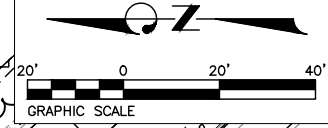
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 DRAINAGE EAST  
16-00011-06-PV/17-00011-07-PV

**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

REV	DATE	DESCRIPTION
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DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>19</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: 125160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONST.	<input type="checkbox"/> RECORD DRAWING



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MISSOURI LAND SURVEYING CORP.	NC 000346

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Date: _____

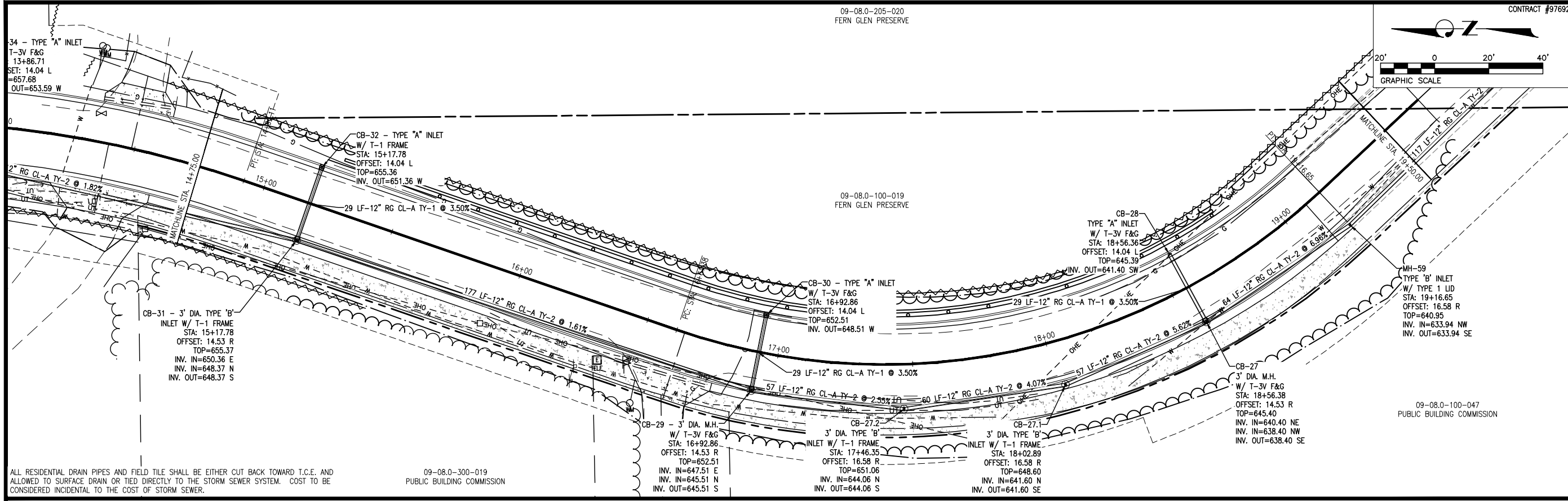
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16-00011-06-PV/17-00011-07-PV

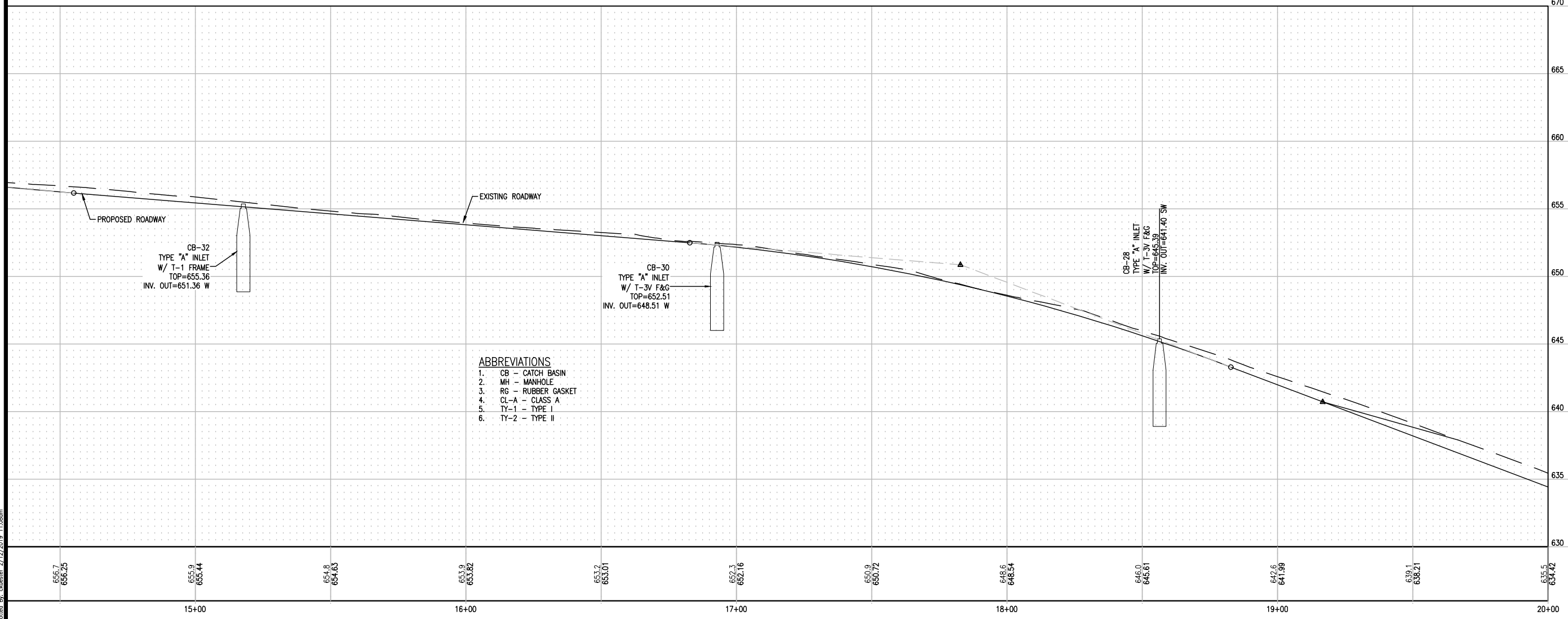
REV	DATE	DESCRIPTION
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DESIGNED BY: NTS	<b>20</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	
PROJECT NUMBER: 125160010A	SHILOH STATION ROAD PHASE 6 & 7
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09-08.0-300-019  
PUBLIC BUILDING COMMISSION



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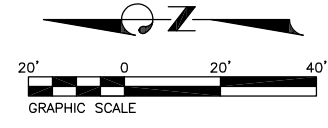
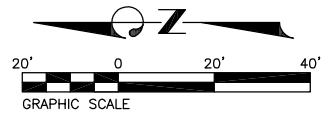
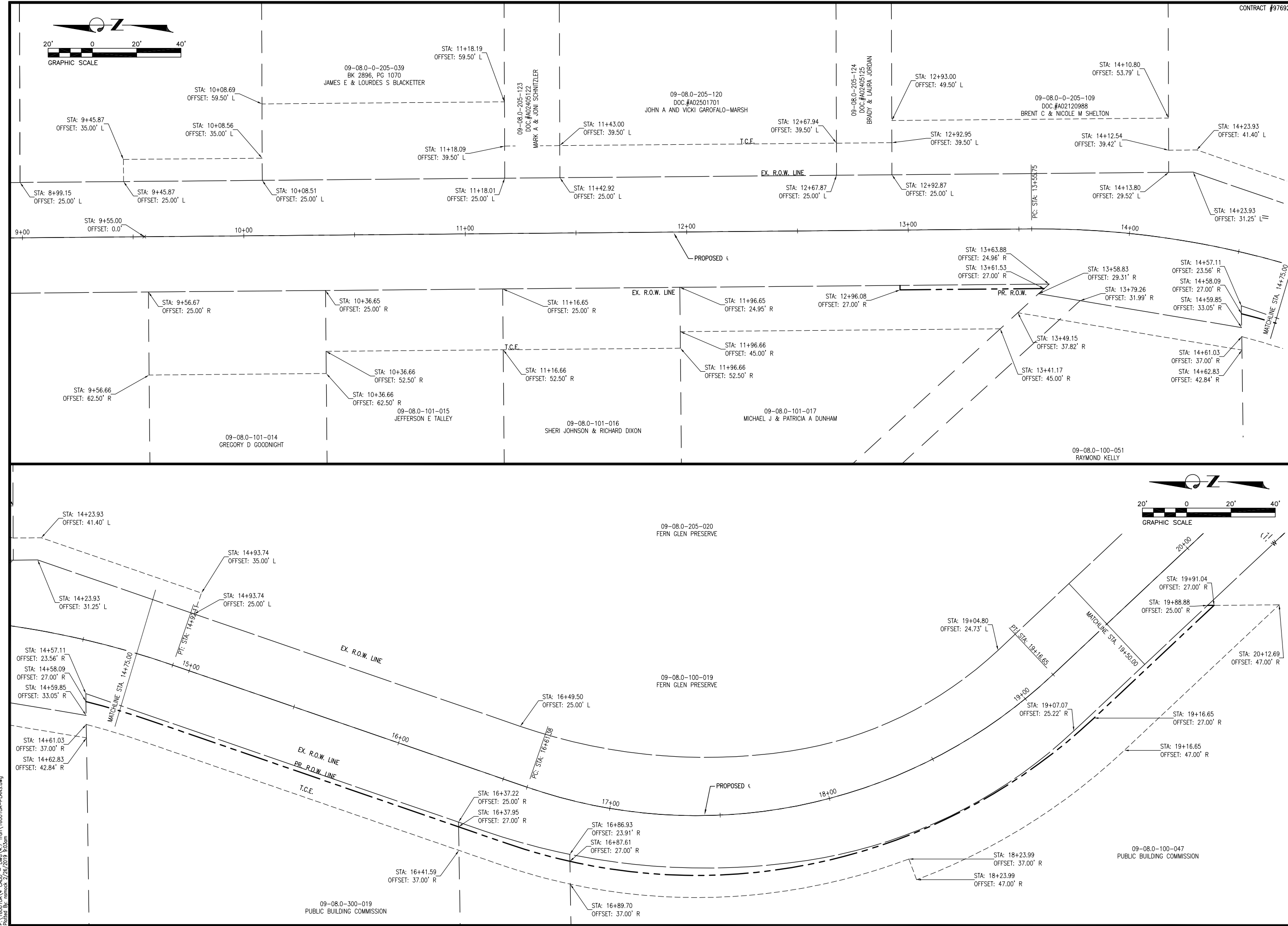
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 R.O.W. / EASEMENT LOCATION  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

REV.	DATE	DESCRIPTION

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>21</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: 125160010A	
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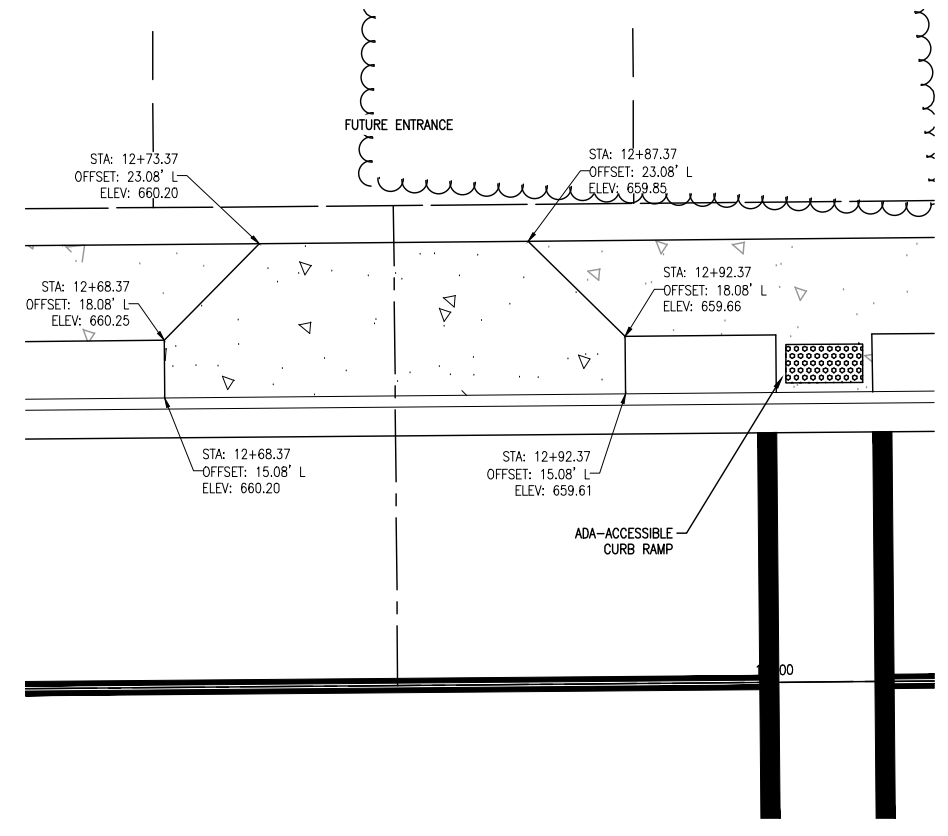
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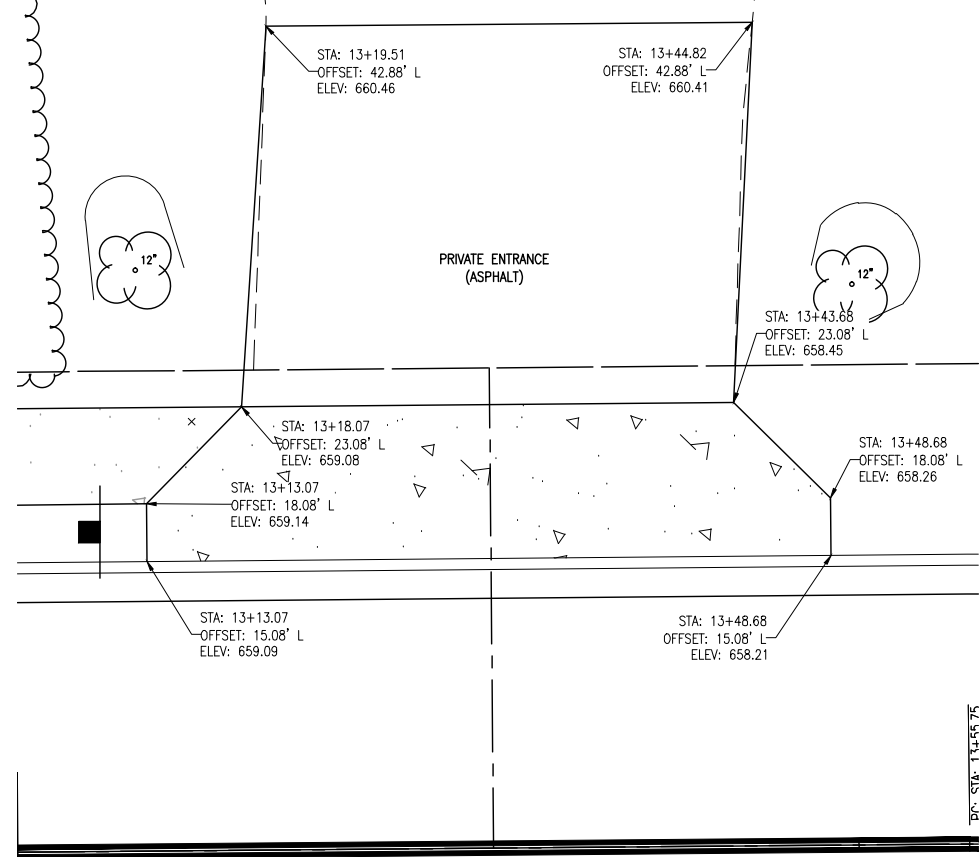
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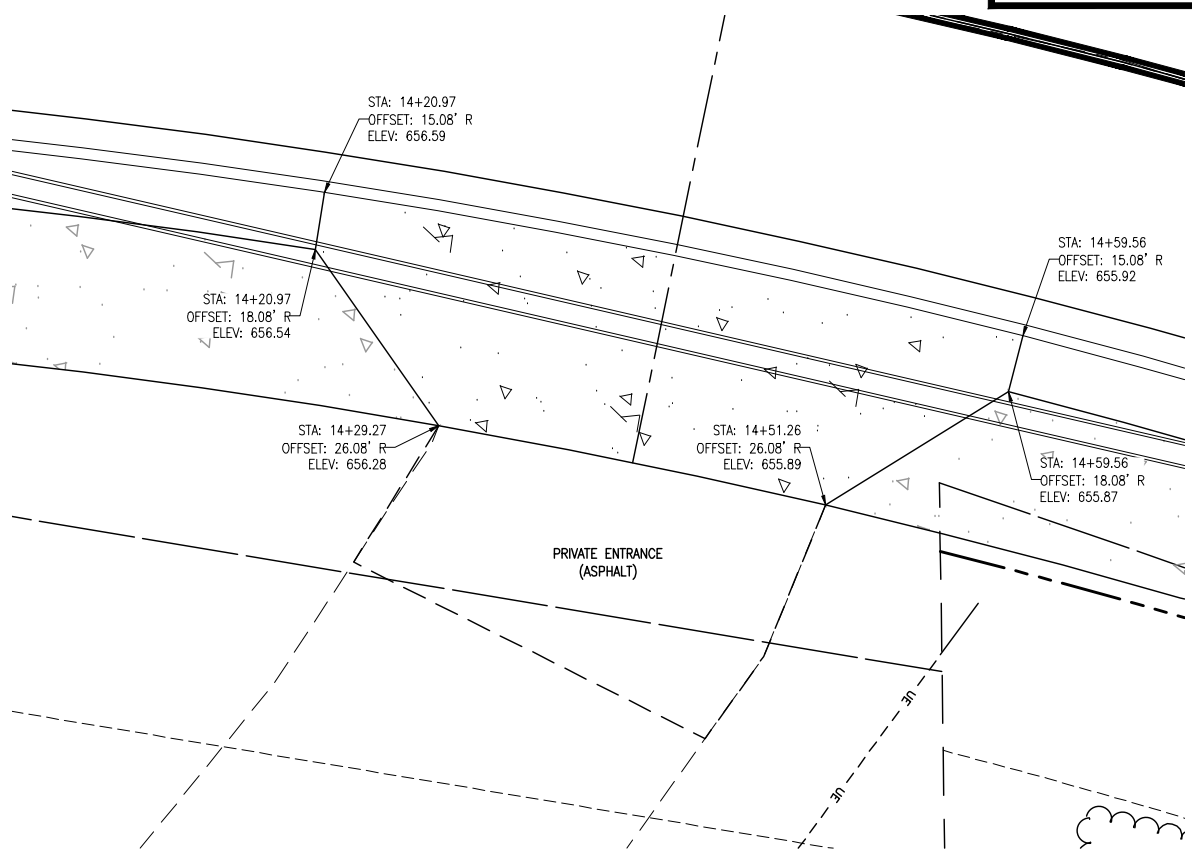
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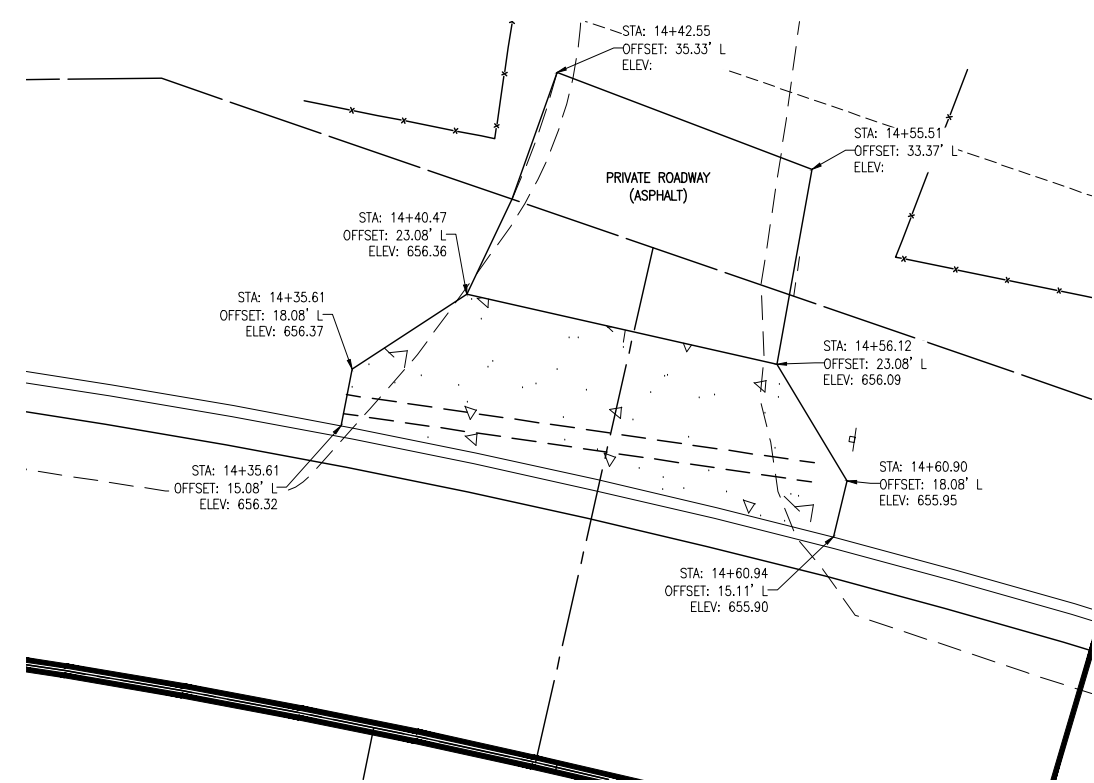
ENTRANCE AT STA 12+80.37



ENTRANCE AT STA 13+30.98



ENTRANCE AT STA 14+40.27



ENTRANCE AT STA 14+48.89  
(FERN GLEN PRESERVE - PRIVATE ROADWAY)

**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 ENTRANCE APPROX

**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

REV	DATE	DESCRIPTION

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>23</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: 125160010A	
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ILLINOIS PROF. LAND SURVEYING CORP.	048-000229
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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Signature: _____  
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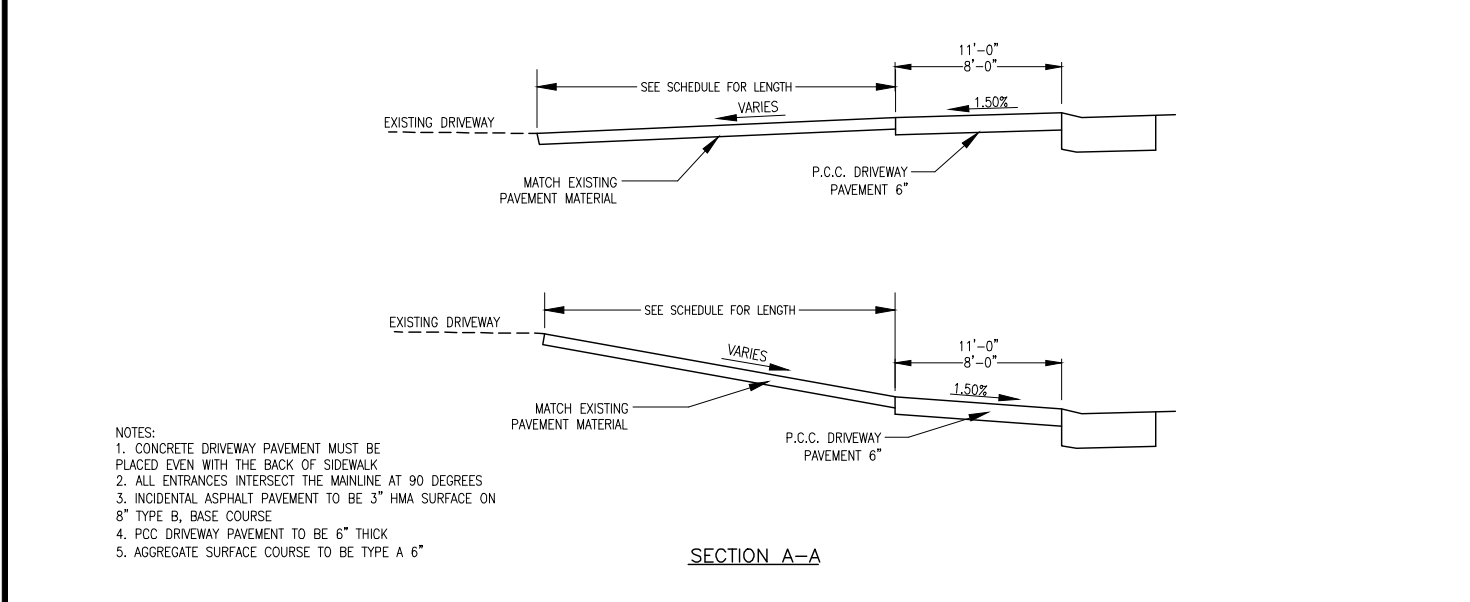
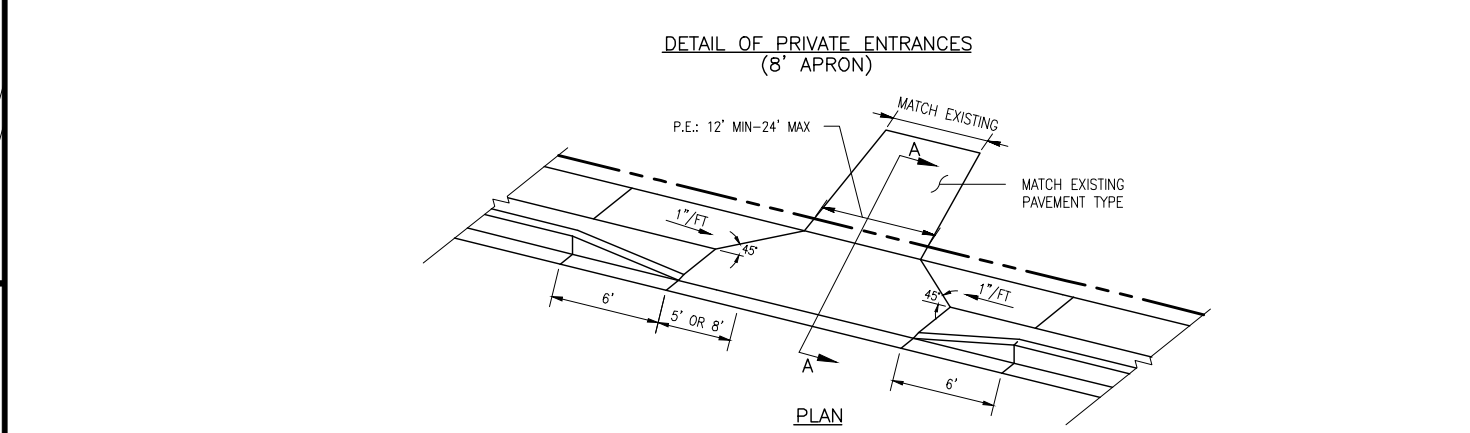
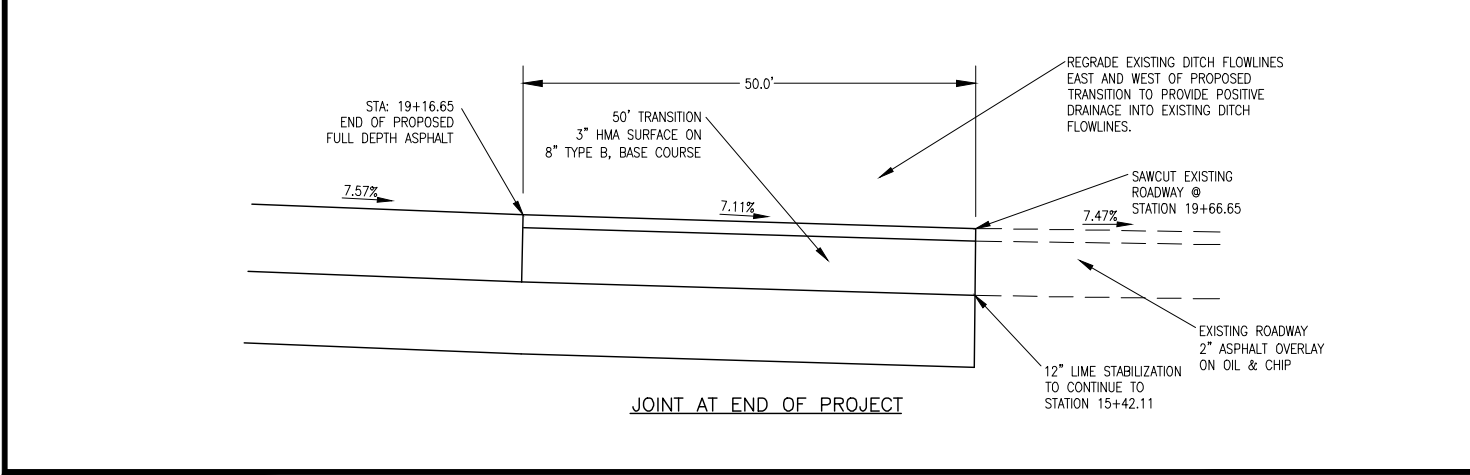
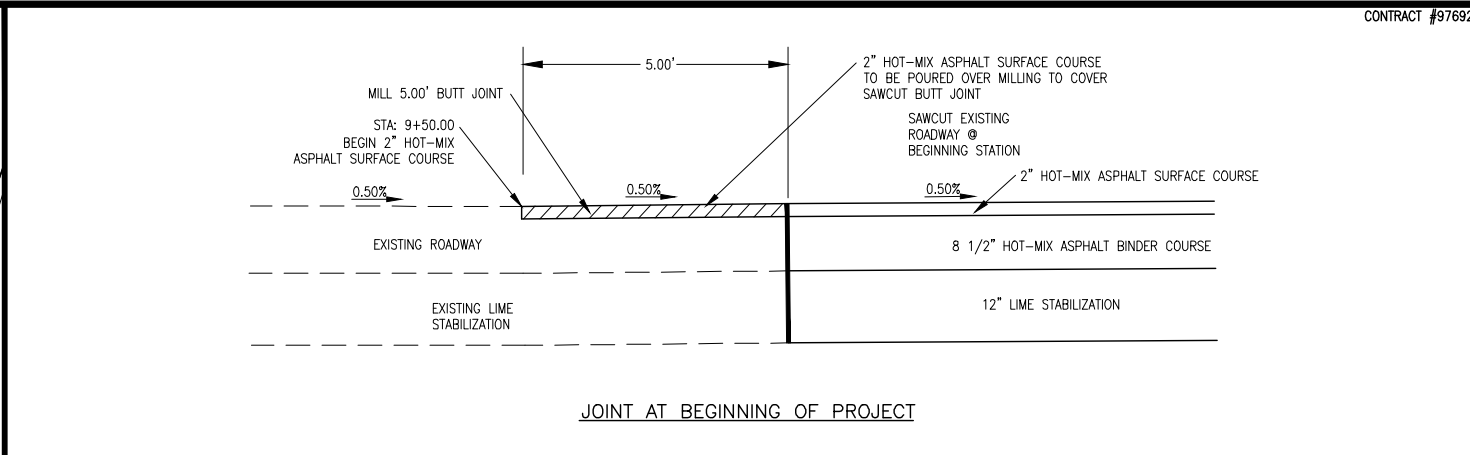
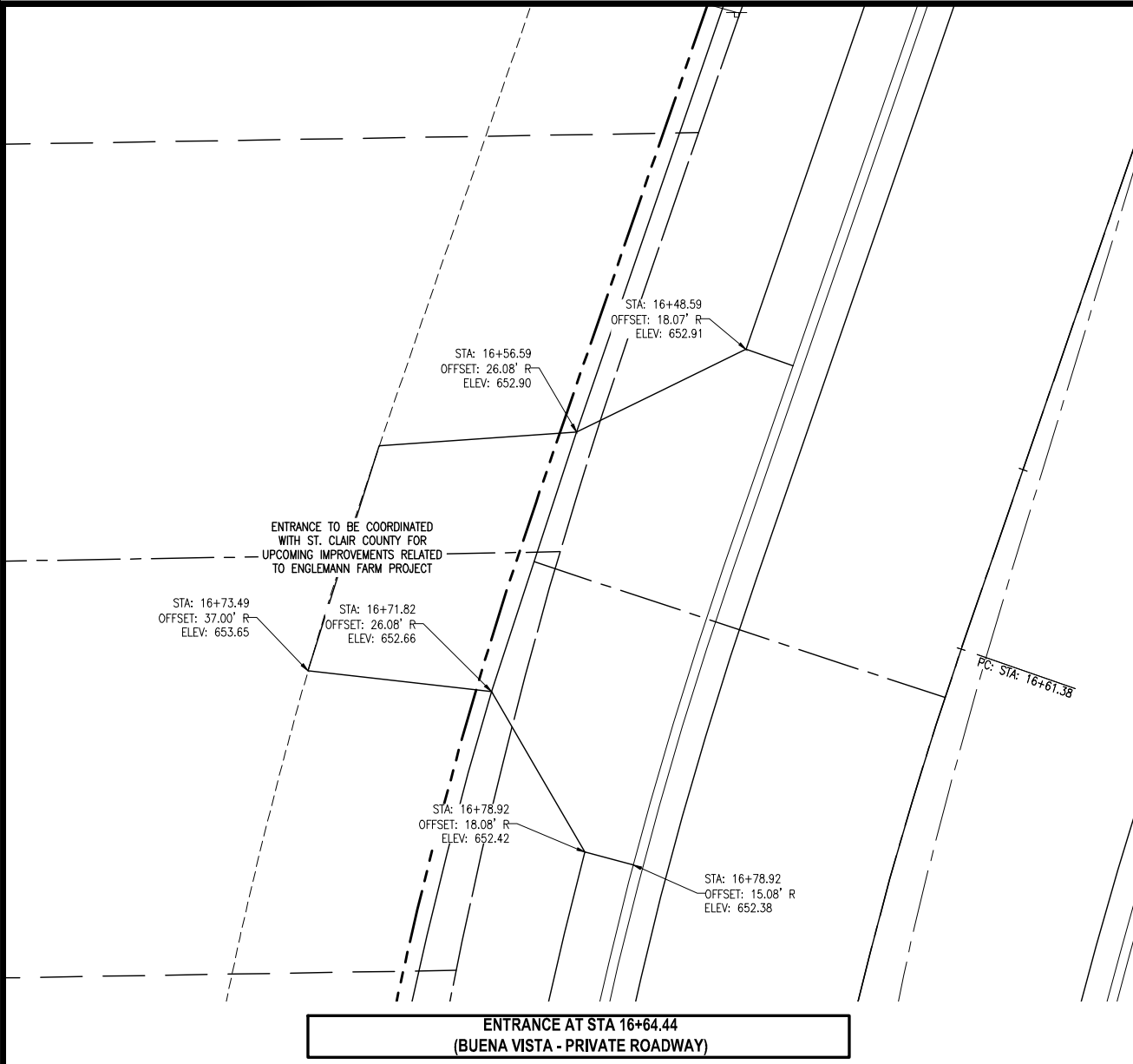
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 MISCELLANEOUS DETAILS  
16-00011-06-PV/17-00011-07-PV

**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

REV	DATE	DESCRIPTION
△		
△		
△		

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>24</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: 125160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



- NOTES:
1. CONCRETE DRIVEWAY PAVEMENT MUST BE PLACED EVEN WITH THE BACK OF SIDEWALK
  2. ALL ENTRANCES INTERSECT THE MAINLINE AT 90 DEGREES
  3. INCIDENTAL ASPHALT PAVEMENT TO BE 3\"/>





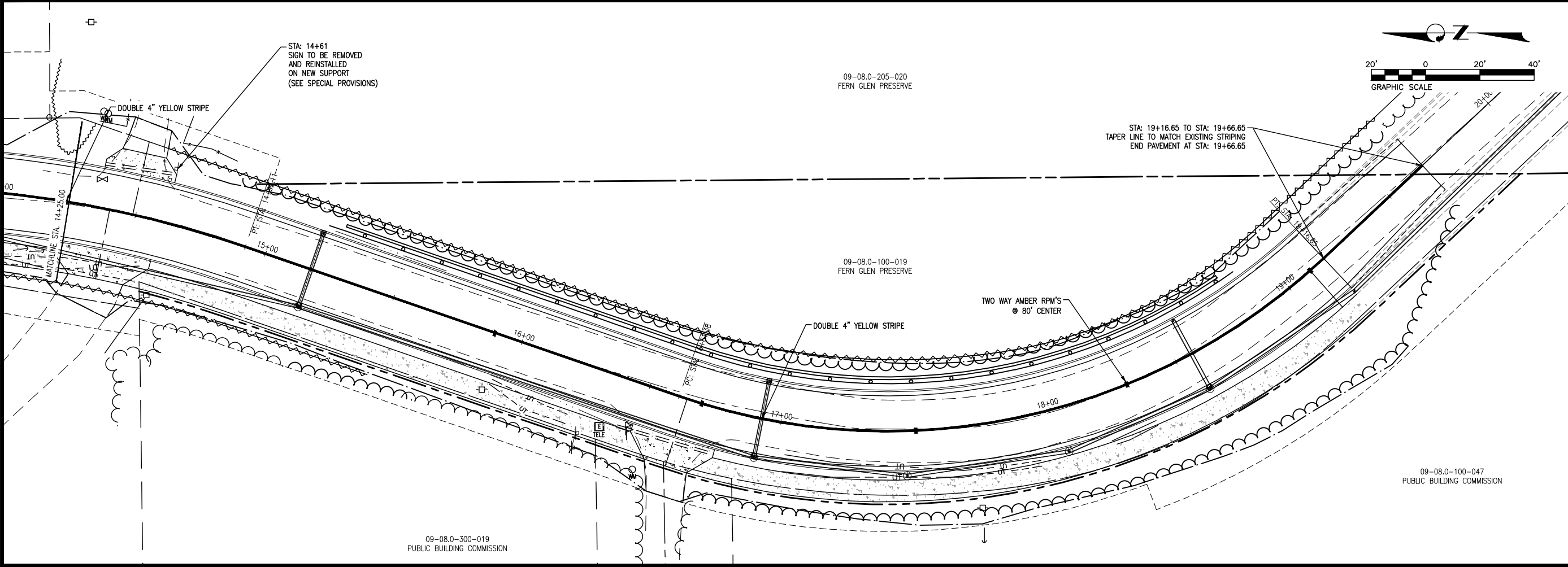
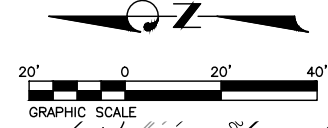
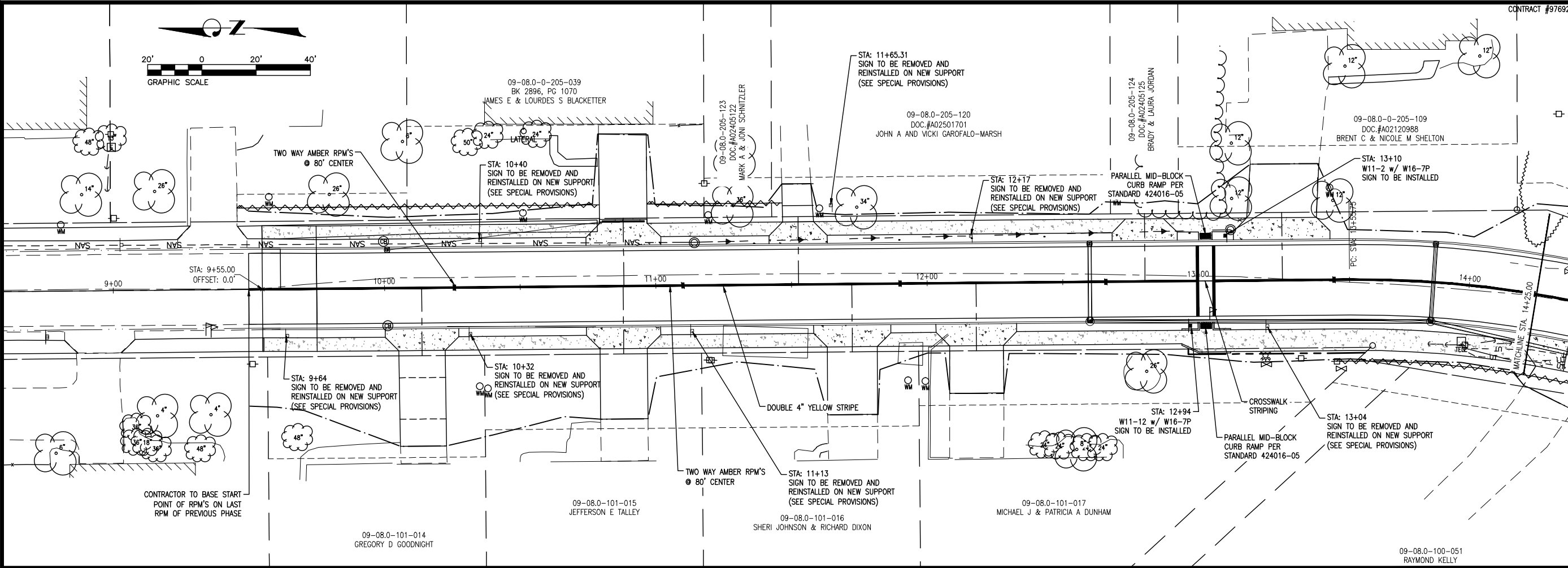
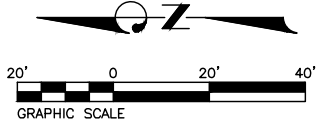
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 PAVEMENT MARKING AND SIGNAGE  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

REV	DATE	DESCRIPTION

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>25</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONST.	<input type="checkbox"/> RECORD DRAWING

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Plotted By: chuster 7/27/2019 11:13am

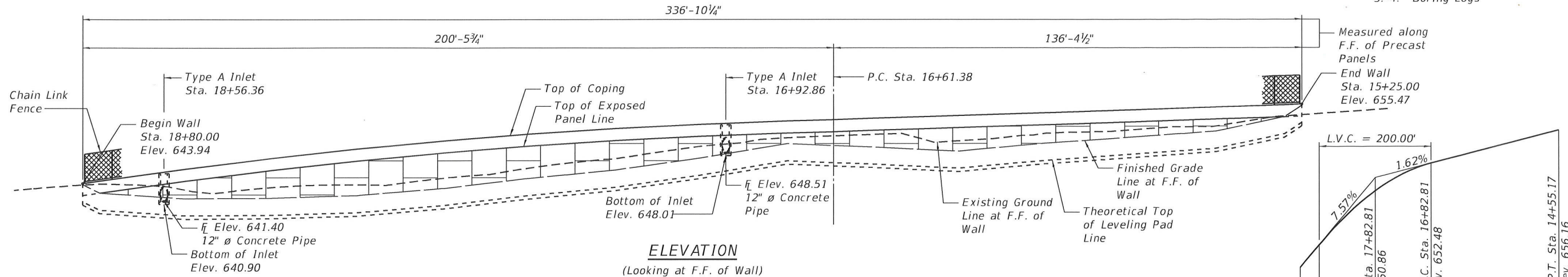
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 Northing 686,522.384, Easting: 2,372,372.512, Elev: 659.73

Existing Structure: None. Road to be closed during construction.

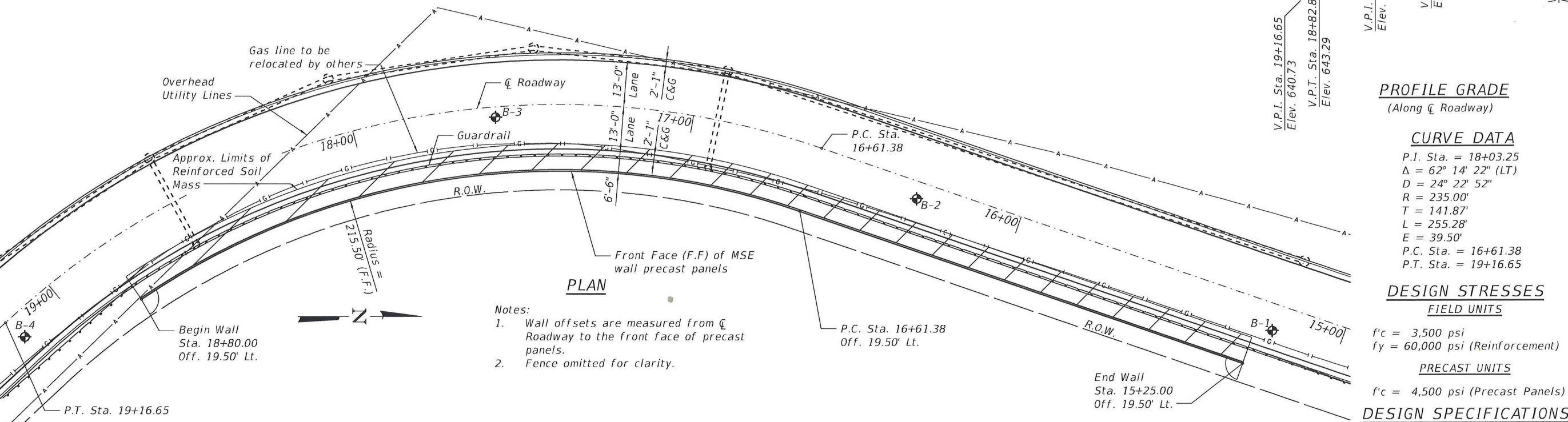
CONTRACT #97692

**INDEX OF SHEETS**

1. General Plan & Elevation
2. Wall Sections & Details
- 3-4. Boring Logs



**ELEVATION**  
(Looking at F.F. of Wall)



**PLAN**

- Notes:
1. Wall offsets are measured from  $\bar{C}$  Roadway to the front face of precast panels.
  2. Fence omitted for clarity.

**PROFILE GRADE**  
(Along  $\bar{C}$  Roadway)

**CURVE DATA**

P.I. Sta. = 18+03.25  
 $\Delta = 62^\circ 14' 22''$  (LT)  
 $D = 24^\circ 22' 52''$   
 $R = 235.00'$   
 $T = 141.87'$   
 $L = 255.28'$   
 $E = 39.50'$   
 P.C. Sta. = 16+61.38  
 P.T. Sta. = 19+16.65

**DESIGN STRESSES**

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

**PRECAST UNITS**  
 $f'_c = 4,500$  psi (Precast Panels)

**DESIGN SPECIFICATIONS**

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

**TOTAL BILL OF MATERIAL**

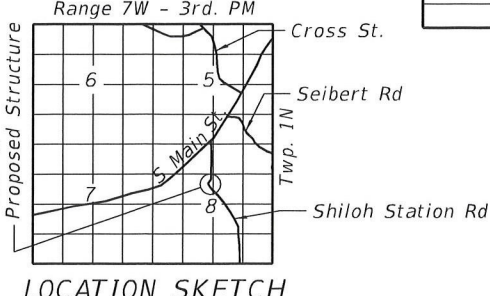
ITEM	UNIT	TOTAL
Mechanically Stabilized Earth Retaining Wall	Sq. Ft.	1,845
Structure Excavation	Cu. Yd.	627
Chain Link Fence, 4' (Special)	Foot	337

**WALL ELEVATIONS**

Roadway Station	Wall Offset	Wall Station	Theo. Top of Leveling Pad	Finished Grade at F.F. of Wall	Top of Exposed Panel Line	Top of Coping	Wall Height, "H" (ft)
15+25.00	19.50' Lt.	3+36.86	652.81	655.31	653.72	655.47	2.67
15+30.00	19.50' Lt.	3+31.86	651.14	653.64	653.64	655.39	4.25
15+50.00	19.50' Lt.	3+11.86	649.06	651.56	653.32	655.07	6.01
15+75.00	19.50' Lt.	2+86.86	648.18	650.68	652.91	654.66	6.48
16+00.00	19.50' Lt.	2+61.86	647.31	649.81	652.51	654.26	6.95
16+25.00	19.50' Lt.	2+36.86	646.18	648.68	652.10	653.85	7.67
16+50.00	19.50' Lt.	2+11.86	646.77	649.27	651.70	653.45	6.68
16+61.38	19.50' Lt.	2+00.48	646.99	649.49	651.52	653.27	6.27
16+75.00	19.50' Lt.	1+87.99	647.26	649.76	651.30	653.05	5.79
17+00.00	19.50' Lt.	1+65.06	645.19	647.69	650.85	652.60	7.41
17+25.00	19.50' Lt.	1+42.14	643.42	645.92	650.22	651.97	8.55
17+50.00	19.50' Lt.	1+19.21	642.20	644.70	649.41	651.16	8.96
17+75.00	19.50' Lt.	0+96.29	640.72	643.22	648.41	650.16	9.44
18+00.00	19.50' Lt.	0+73.36	639.69	642.19	647.23	648.98	9.29
18+25.00	19.50' Lt.	0+50.44	639.30	641.80	645.86	647.61	8.31
18+50.00	19.50' Lt.	0+27.51	639.20	641.70	644.30	646.05	6.85
18+75.00	19.50' Lt.	0+04.59	640.06	642.56	642.56	644.31	4.25
18+80.00	19.50' Lt.	0+00.00	641.28	643.78	642.19	643.94	2.67

**WALL CONTROL POINTS**

Description	Roadway Station	Wall Offset	Wall Station	Northing	Easting
End Wall	15+25.00	19.50' Lt.	3+36.86	686,310.52	2,372,336.42
P.C. Sta	16+61.38	19.50' Lt.	2+00.48	686,181.60	2,372,291.96
Begin Wall	18+80.00	19.50' Lt.	0+00.00	685,989.98	2,372,317.61



**LOCATION SKETCH**

**GENERAL PLAN & ELEVATION**  
**SHILOH STATION ROAD**  
 F.A.U. RTE. 9178  
 SEC. 16-00011-06-PV &  
 17-00011-07-PV  
 ST. CLAIR COUNTY  
 STATION 15+25.00 TO 18+80.00

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SEAL Applies to Sheets 26 thru 29

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**SHILOH STATION RD. PHASE 6 AND 7 RETAINING WALL**  
 16-00011-06-PV/17-00011-07-PV

**SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS**

REV.	DATE	DESCRIPTION

DRAWN BY: TJR	SHEET 26
DESIGNED BY: TJR	OF 47 SHEETS
CHECKED BY: MJJ	SHILOH STATION ROAD PHASE 6
APPROVED BY: MJJ	PROJECT NUMBER T25160010A
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING





**BORING LOG**

PROJECT Shiloh Station Road Retaining Wall BORING NUMBER B-1  
 LOCATION Shiloh, Illinois SHEET 1 of 1  
 DRILLER Midwest Drilling, Inc. HAMMER Automatic PROJECT NO. 2016-3011.10  
 EQUIPMENT CME 75 w/CFA ELEVATION 655.0± DATE DRILLED 02/17/16  
 STATION 15+16 OFFSET 8' LT

DEPTH (ft)	SAMPLE			DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS						ELEVATION (ft)	
	NUMBER	TYPE	BLOWS (per 6 in)				MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RIMAC STRENGTH TEST (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX		
1	SS	4/18	3	4" ASPHALTIC CONCRETE FILL: Brown, lean clay LEAN CLAY (CL): Brown, trace organics	[Hatched]		23							
2	SS	10/18	3		[Hatched]		23		3.48 - S20%					650
3	ST	22/24	3		[Hatched]		23	88		2.3	40	18		
4	SS	17/18	2	Becomes brown with gray	[Hatched]		25		1.08 - S20%					645
5	SS	17/18	3	Become brown	[Hatched]		23		1.38 - S20%					640
6	SS	16/18	2	SANDY FAT CLAY (CH): Brown, sand is fine	[Diagonal]		18		1.86 - S20%					635
7	SS	14/18	4	CLAYEY SAND (SP): Reddish-brown, fine	[Dotted]		9		1.16 - S20%					630

Boring terminated at 25.0 feet.

**WATER LEVEL:**  
 X NONE OBSERVED WHILE DRILLING  
 _____ ft WHILE DRILLING  
 _____ ft AT COMPLETION OF DRILLING  
 _____ ft _____ HRS AFTER DRILLING

**REMARKS:**

B=bulge, S=shear, HP=hand penetrometer



**BORING LOG**

PROJECT Shiloh Station Road Retaining Wall BORING NUMBER B-2  
 LOCATION Shiloh, Illinois SHEET 1 of 1  
 DRILLER Midwest Drilling, Inc. HAMMER Automatic PROJECT NO. 2016-3011.10  
 EQUIPMENT CME 75 w/CFA ELEVATION 652.0± DATE DRILLED 02/17/16  
 STATION 16+27 OFFSET 5' LT

DEPTH (ft)	SAMPLE			DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS						ELEVATION (ft)	
	NUMBER	TYPE	BLOWS (per 6 in)				MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RIMAC STRENGTH TEST (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX		
1	SS	11/18	4	4" ASPHALTIC CONCRETE FILL: Dark brown, lean clay, trace fine sand	[Hatched]		19							650
2	SS	11/18	3	FILL: Brown, fat clay, trace fine sand	[Hatched]		23		4.5					
3	SS	13/18	2	LEAN CLAY (CL): Brown, trace organics	[Hatched]		20		5.5					645
4	ST	9/15	3		[Hatched]		21	80						
5	SS	17/18	3	Trace fine sand	[Hatched]		21		2.38 - S15%					
6			5	Boring terminated at 15.0 feet.	[Hatched]									

**WATER LEVEL:**  
 X NONE OBSERVED WHILE DRILLING  
 _____ ft WHILE DRILLING  
 _____ ft AT COMPLETION OF DRILLING  
 _____ ft _____ HRS AFTER DRILLING

**REMARKS:**

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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 RETAINING WALL  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

REV	DATE	DESCRIPTION
△		
△		
△		

**DRAWN BY:** TJR **SHEET** 28  
**DESIGNED BY:** TJR **OF 47 SHEETS**  
**CHECKED BY:** MJJ  
**APPROVED BY:** MJJ  
**PROJECT NUMBER:** T25160010A  
 ISSUED FOR REVIEW  ISSUED FOR BIDDING  
 ISSUED FOR CONSTR.  RECORD DRAWING



**BORING LOG**

PROJECT Shiloh Station Road Retaining Wall BORING NUMBER B-3  
 LOCATION Shiloh, Illinois SHEET 1 of 1  
 DRILLER Midwest Drilling, Inc. HAMMER Automatic PROJECT NO. 2016-3011.10  
 EQUIPMENT CME 75 w/CFA ELEVATION 650.0± DATE DRILLED 02/17/16  
 STATION 17+56 OFFSET 3' LT

DEPTH (ft)	SAMPLE			DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS						ELEVATION (ft)
	NUMBER	TYPE	BLOWS (per 6 in)				MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RIMAC STRENGTH TEST (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	
1	SS	12/18	3	4" ASPHALTIC CONCRETE	[Cross-hatched]								
			2	FILL: Brown, lean clay									
2	ST	17/24	3	FILL: Brown, fat clay	[Cross-hatched]								
			3										
5	SS	9/18	3	LEAN CLAY (CL): Brown, trace organics	[Diagonal lines]								645
			2										
10	SS	17/18	3		[Diagonal lines]								640
			5										
15	ST	24/24	3	SANDY LEAN CLAY (CL): Brown, sand is fine	[Diagonal lines]								635
			5										
20	SS	16/18	4	CLAYEY SAND (SP): Reddish-brown, fine, trace fine chert gravel	[Dotted]								630
			5										
7	SS	14/18	5	SAND (SP): Brown, fine	[Dotted]								625
			6										

Boring terminated at 25.0 feet.

**WATER LEVEL:**  
 X NONE OBSERVED WHILE DRILLING  
 _____ ft WHILE DRILLING  
 _____ ft AT COMPLETION OF DRILLING  
 _____ ft _____ HRS AFTER DRILLING

**REMARKS:**

B=bulge, S=shear, HP=hand penetrometer



**BORING LOG**

PROJECT Shiloh Station Road Retaining Wall BORING NUMBER B-4  
 LOCATION Shiloh, Illinois SHEET 1 of 1  
 DRILLER Midwest Drilling, Inc. HAMMER Automatic PROJECT NO. 2016-3011.10  
 EQUIPMENT CME 75 w/CFA ELEVATION 641.0± DATE DRILLED 02/17/16  
 STATION 19+15 OFFSET 6' LT

DEPTH (ft)	SAMPLE			DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS						ELEVATION (ft)
	NUMBER	TYPE	BLOWS (per 6 in)				MOISTURE CONTENT (%)	DRY DENSITY (pcf)	RIMAC STRENGTH TEST (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	
1	SS	7/18	5	5" ASPHALTIC CONCRETE	[Cross-hatched]								640
			2	FILL: Brown, lean clay									
5	SS	16/18	2	LEAN CLAY (CL): Brown	[Diagonal lines]								635
			3										
10	SS	16/18	4	SANDY FAT CLAY (CH): Brown, sand is fine	[Diagonal lines]								630
			4										
15	SS	14/18	3		[Diagonal lines]								625
			4										
20			3	Boring terminated at 15.0 feet.	[Diagonal lines]								620
			4										

**WATER LEVEL:**  
 X NONE OBSERVED WHILE DRILLING  
 _____ ft WHILE DRILLING  
 _____ ft AT COMPLETION OF DRILLING  
 _____ ft _____ HRS AFTER DRILLING

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 400 N. 5TH STREET, SUITE 101  
 ST. CHARLES, MISSOURI 63301  
 TEL (636) 724-8300  
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PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-05202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000229
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

Signature: _____  
 Signature Date: _____  
 Expiration Date: _____

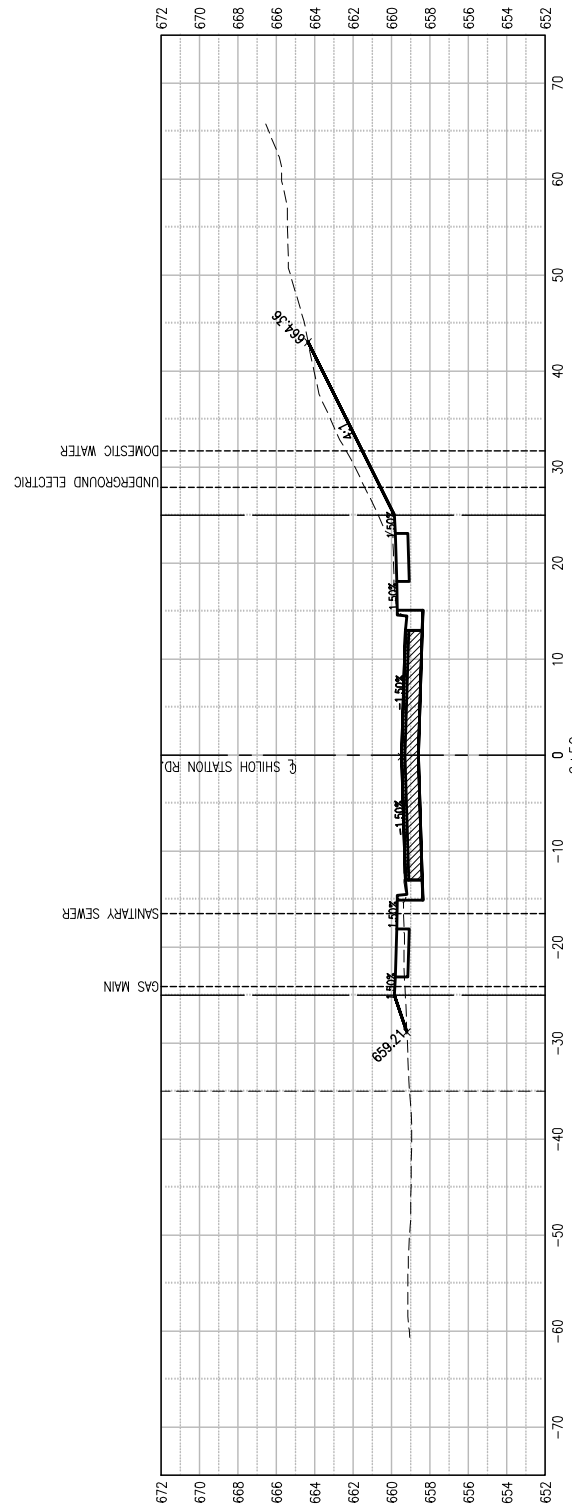
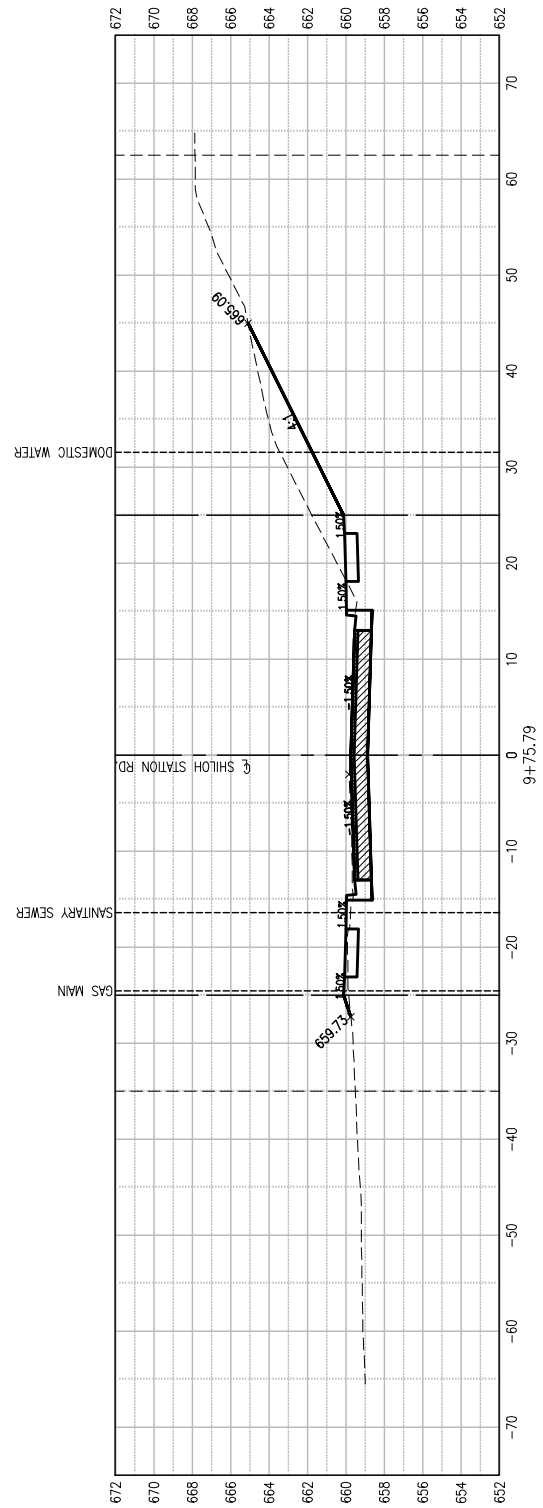
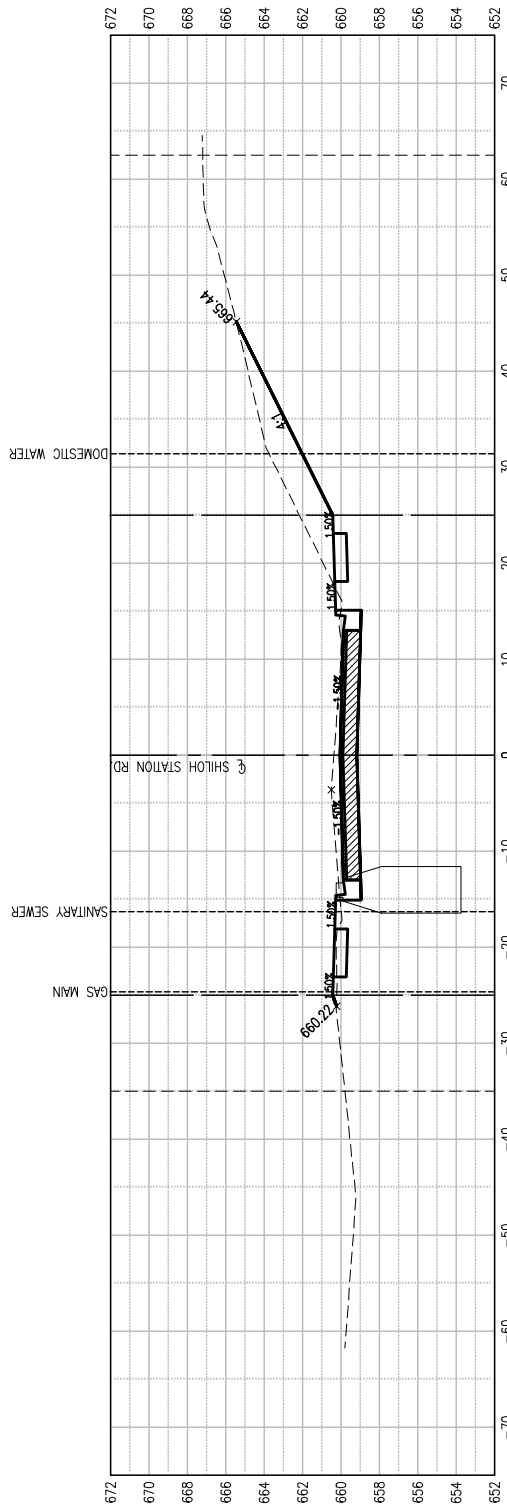
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 RETAINING WALL  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

REV	DATE	DESCRIPTION
△		
△		
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**DRAWN BY:** TJR **SHEET** 29 **OF 47 SHEETS**  
**DESIGNED BY:** TJR  
**CHECKED BY:** MJJ  
**APPROVED BY:** MJJ  
**PROJECT NUMBER:** T25160010A  
 ISSUED FOR REVIEW  ISSUED FOR BIDDING  
 ISSUED FOR CONSTR.  RECORD DRAWING



SCALE  
 1.5" VERTICAL  
 1"=10' HORIZONTAL

LEGEND  
 - - - - - EXISTING RIGHT OF WAY  
 - - - - - PROPOSED RIGHT OF WAY  
 - - - - - TEMPORARY CONSTRUCTION EASEMENT

- NOTES:  
 1. ALL STORM SEWER SHOWN IS PROPOSED  
 2. ALL OTHER UTILITY LOCATIONS SHOWN ARE EXISTING AND ARE BASED OFF THE BEST AVAILABLE RECORD DRAWINGS, TOPOGRAPHIC SURVEYS, AND J.U.L.I.E. LOCATIONS. THE LOCATIONS SHOWN ARE APPROXIMATE AND NO DEPTHS HAVE BEEN DETERMINED.

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PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

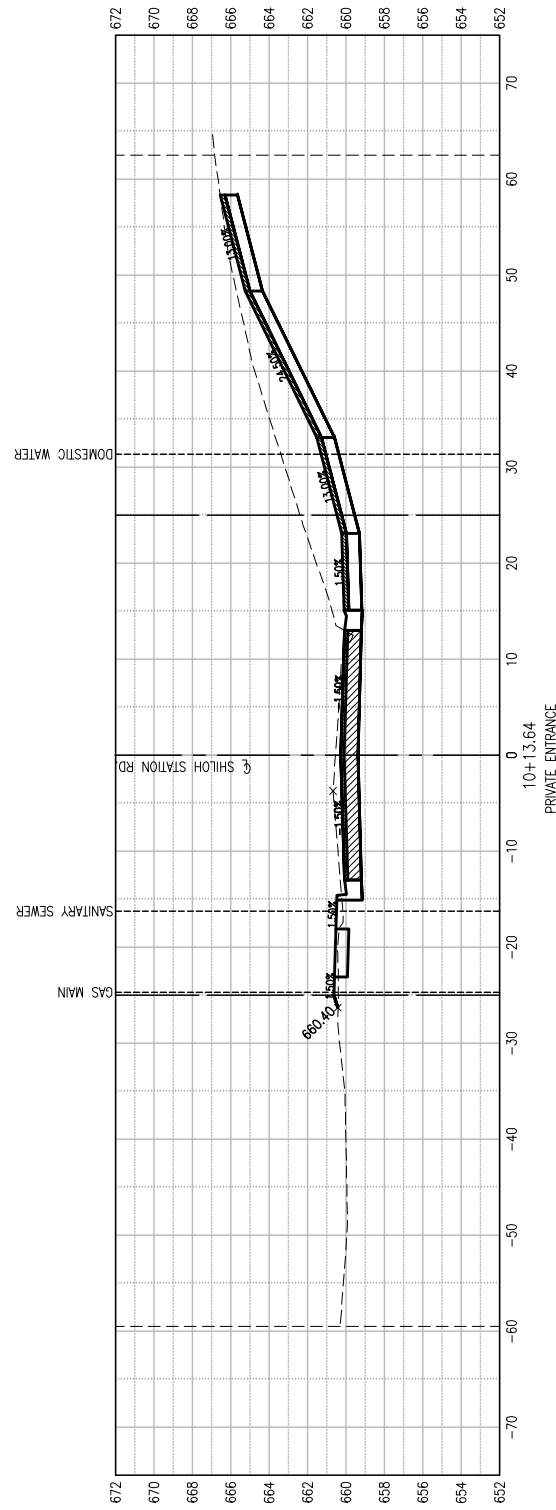
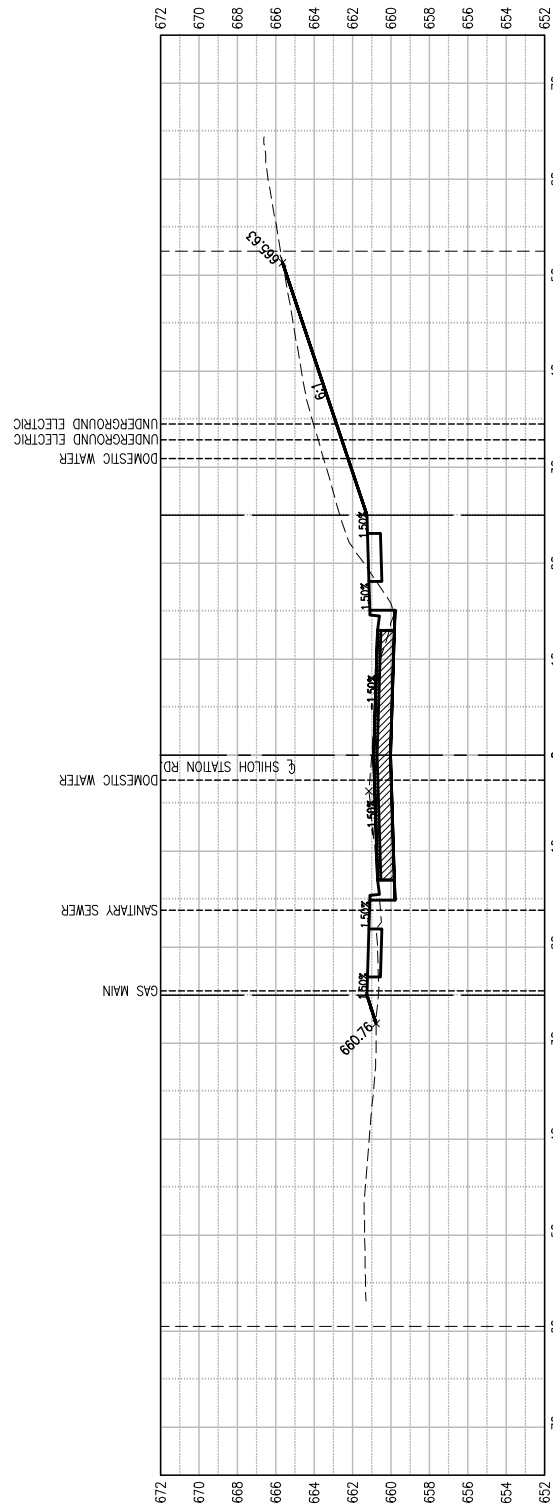
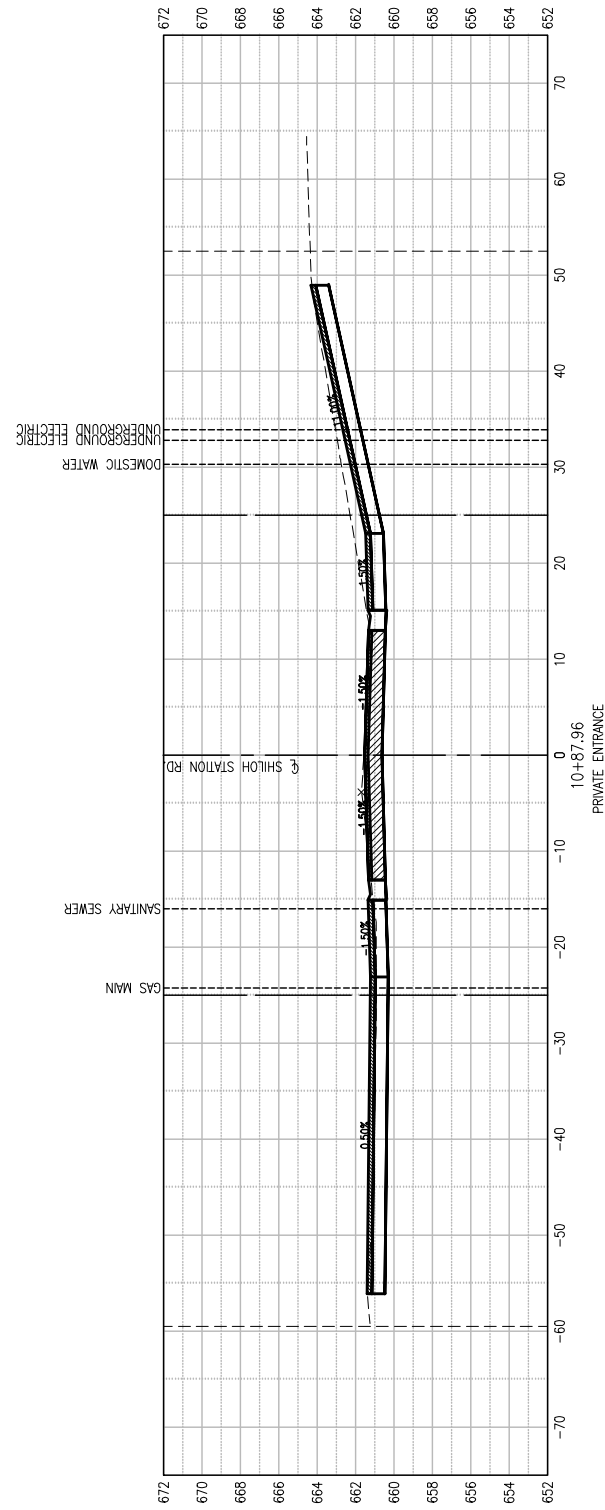
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 CROSS SECTIONS  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS  
 16-00011-06-PV/17-00011-07-PV

REV.	DATE	DESCRIPTION
△		
△		
△		

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>30</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



SCALE  
 1/8" VERTICAL  
 1/10" HORIZONTAL

LEGEND  
 - - - - - EXISTING RIGHT OF WAY  
 - - - - - PROPOSED RIGHT OF WAY  
 - - - - - TEMPORARY CONSTRUCTION EASEMENT

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MISSOURI LAND SURVEYING CORP.	NC 000346

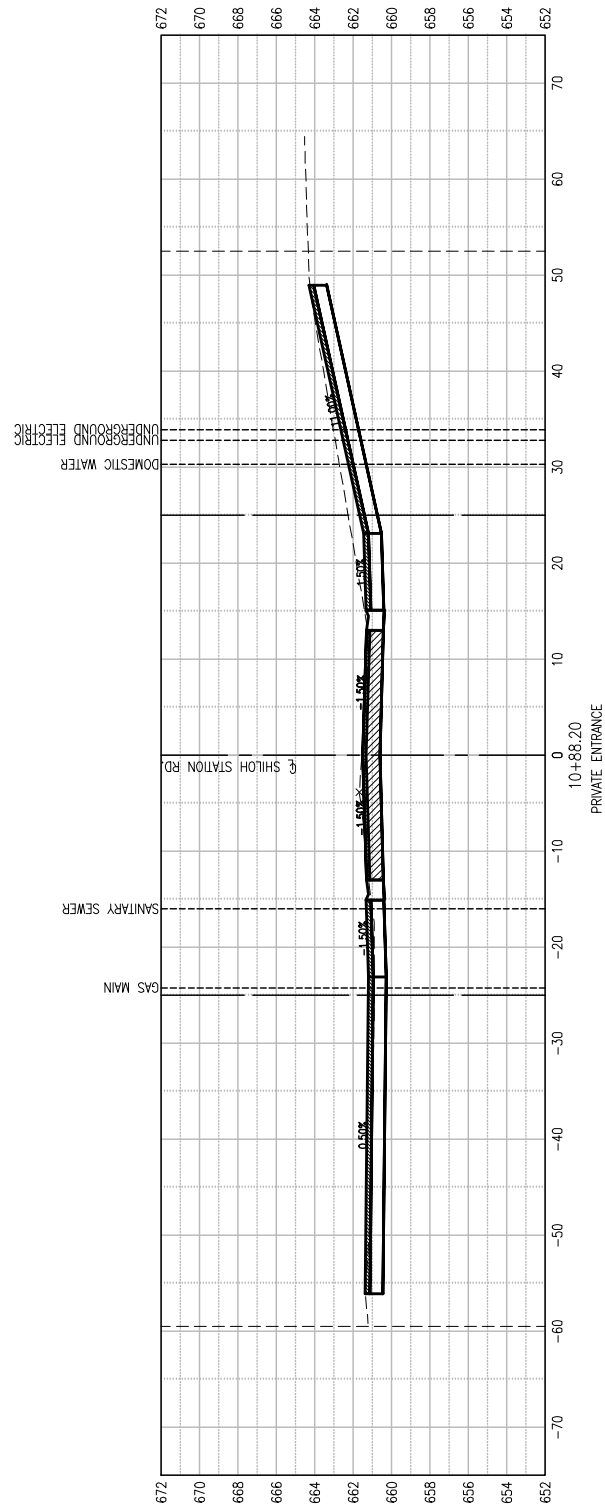
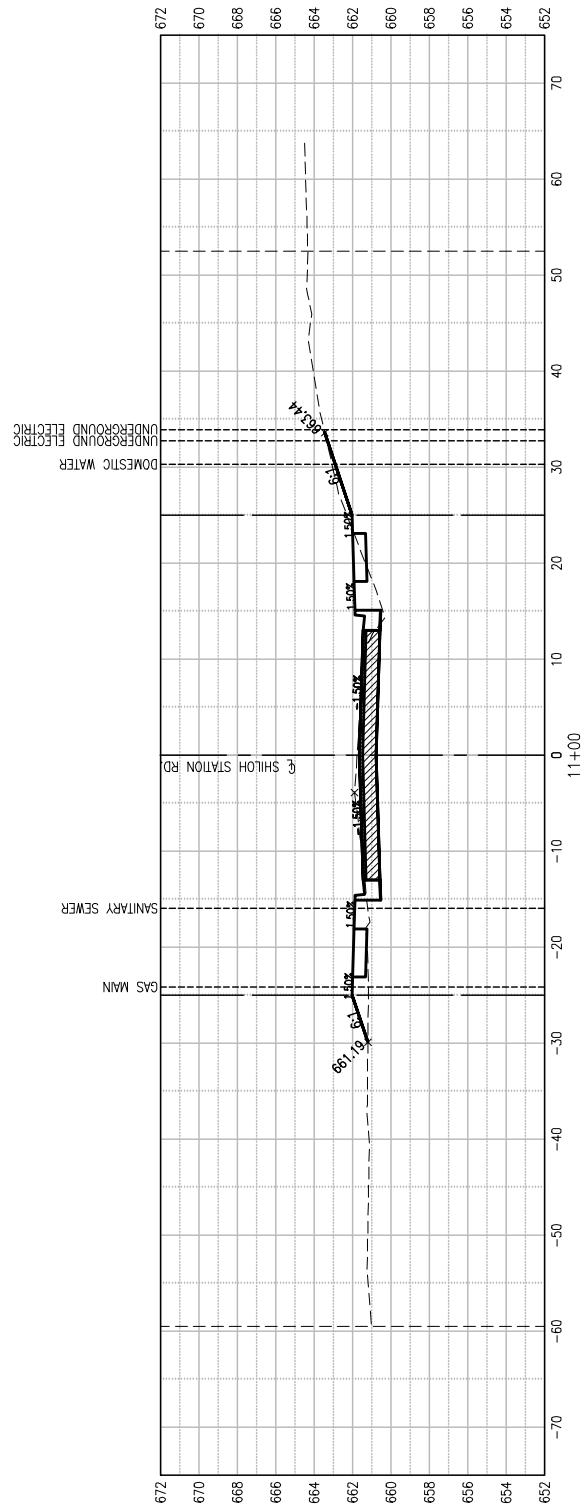
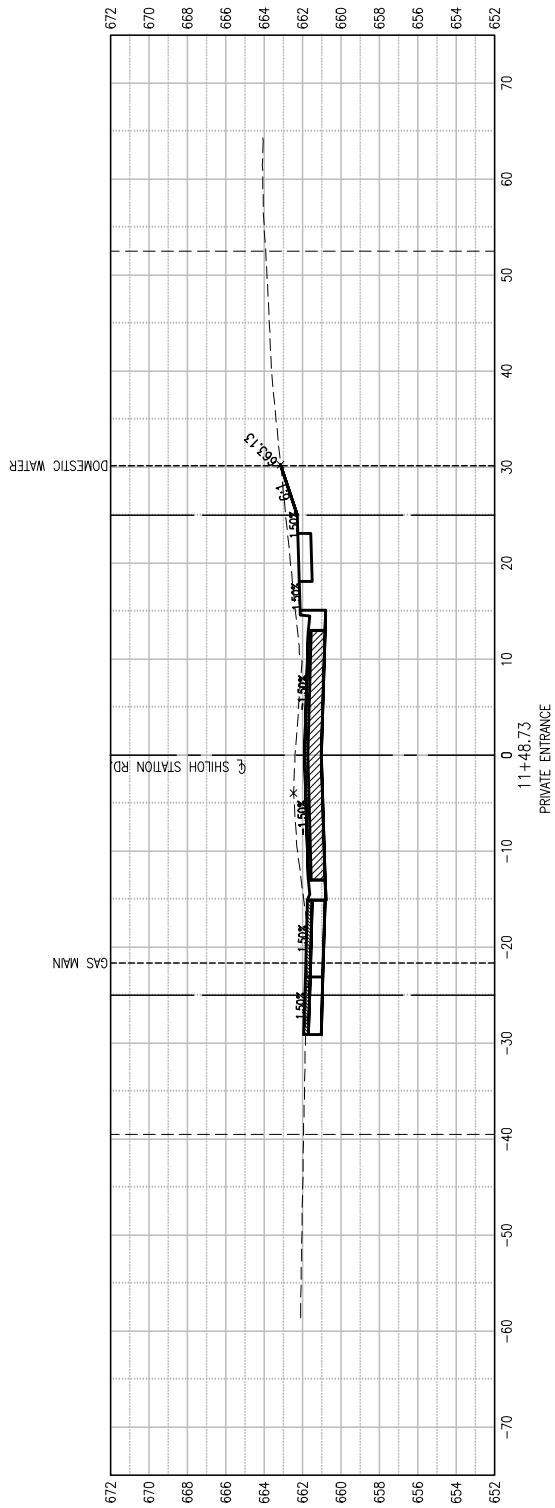
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**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS  
 16-00011-06-PV/17-00011-07-PV

REV.	DATE	DESCRIPTION
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△		
△		

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DESIGNED BY: NTS	<b>31</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONST.	<input type="checkbox"/> RECORD DRAWING



SCALE  
 1/8" VERTICAL  
 1/4" HORIZONTAL

LEGEND  
 - - - - - EXISTING RIGHT OF WAY  
 - - - - - PROPOSED RIGHT OF WAY  
 - - - - - TEMPORARY CONSTRUCTION EASEMENT

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CONTRACT #97692

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ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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Signature: _____  
 Signature Date: _____  
 Expiration Date: _____

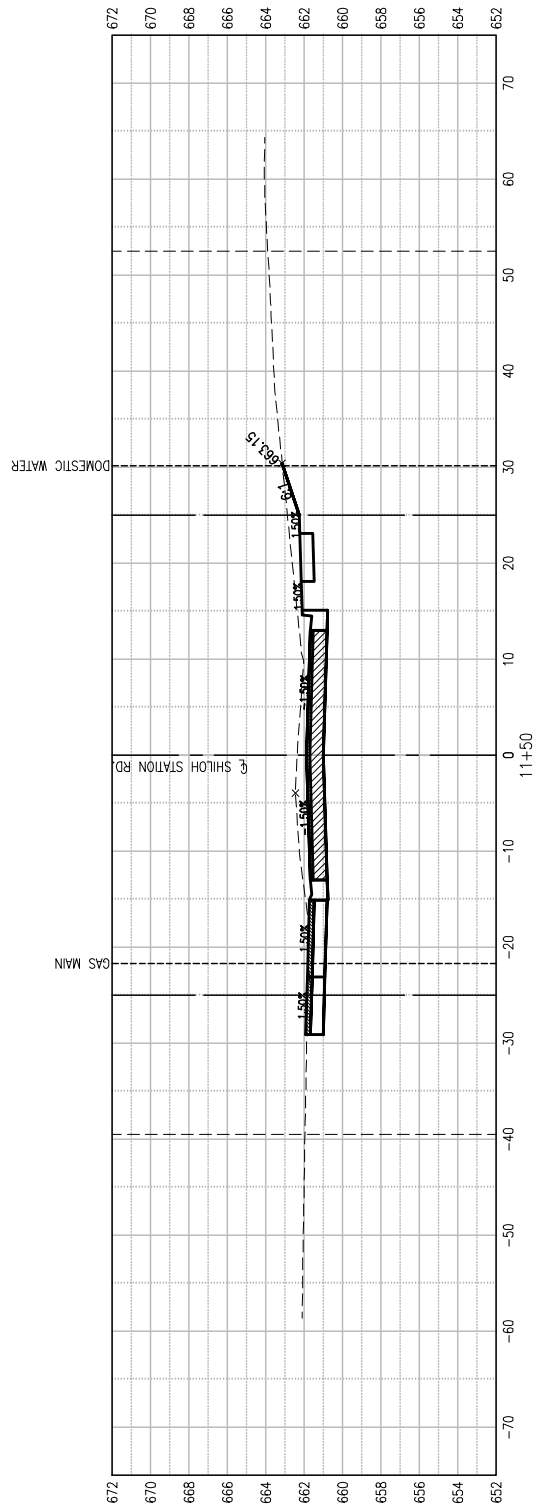
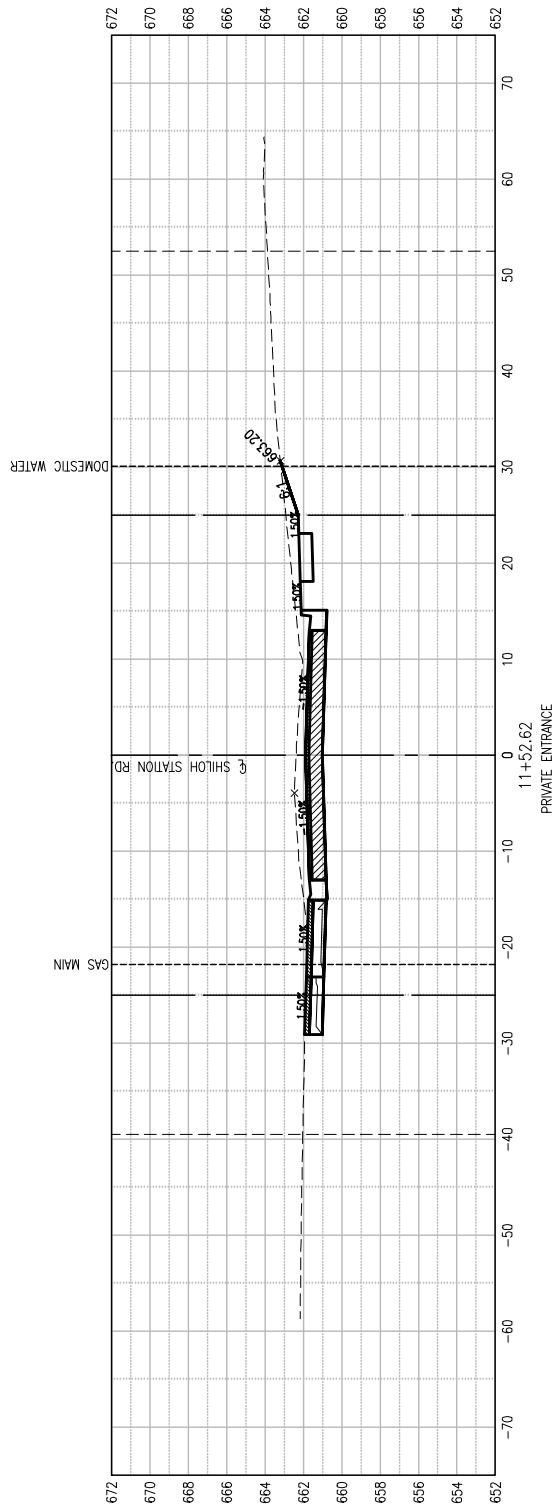
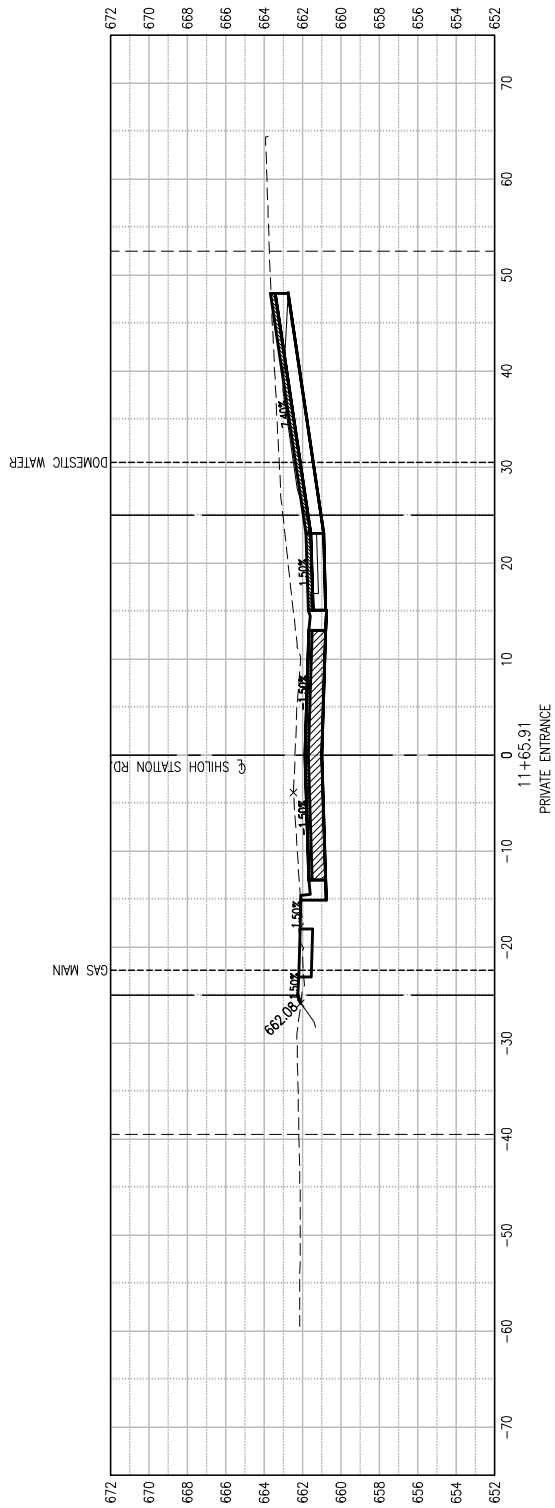
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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 CROSS SECTIONS  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS  
 16-00011-06-PV/17-00011-07-PV

REV.	DATE	DESCRIPTION

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>32</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONST.	<input type="checkbox"/> RECORD DRAWING





SCALE  
 1.5" VERTICAL  
 1:10 HORIZONTAL

LEGEND  
 - - - - - EXISTING RIGHT OF WAY  
 - - - - - PROPOSED RIGHT OF WAY  
 - - - - - TEMPORARY CONSTRUCTION EASEMENT

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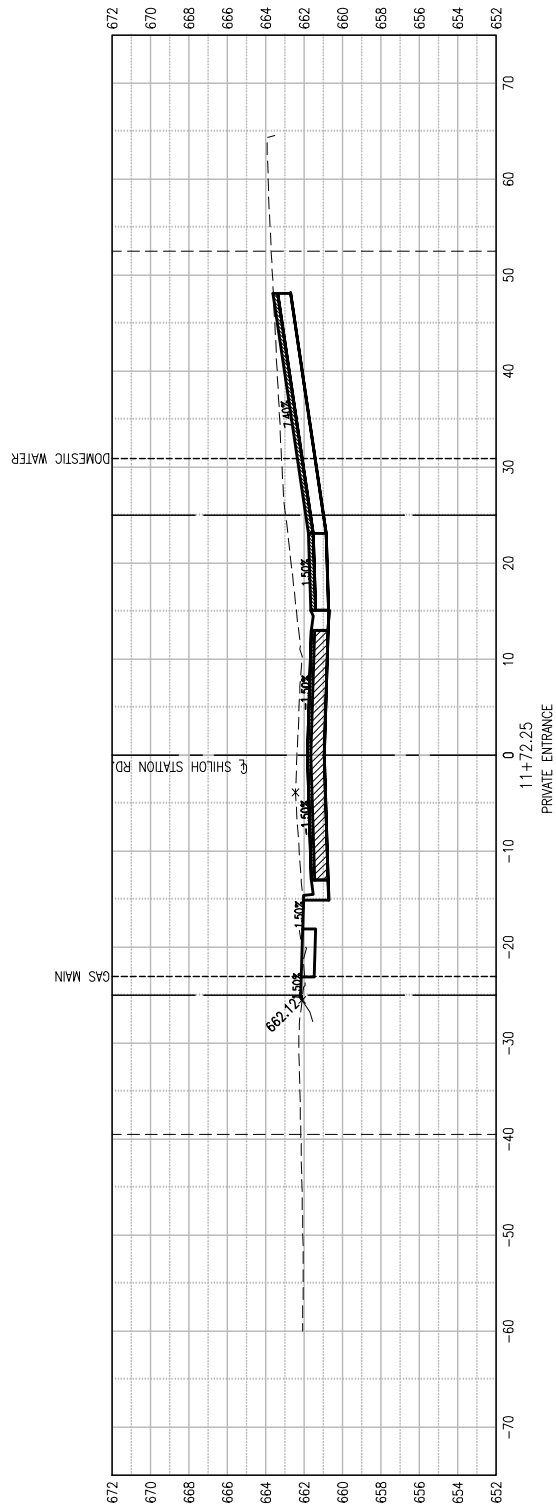
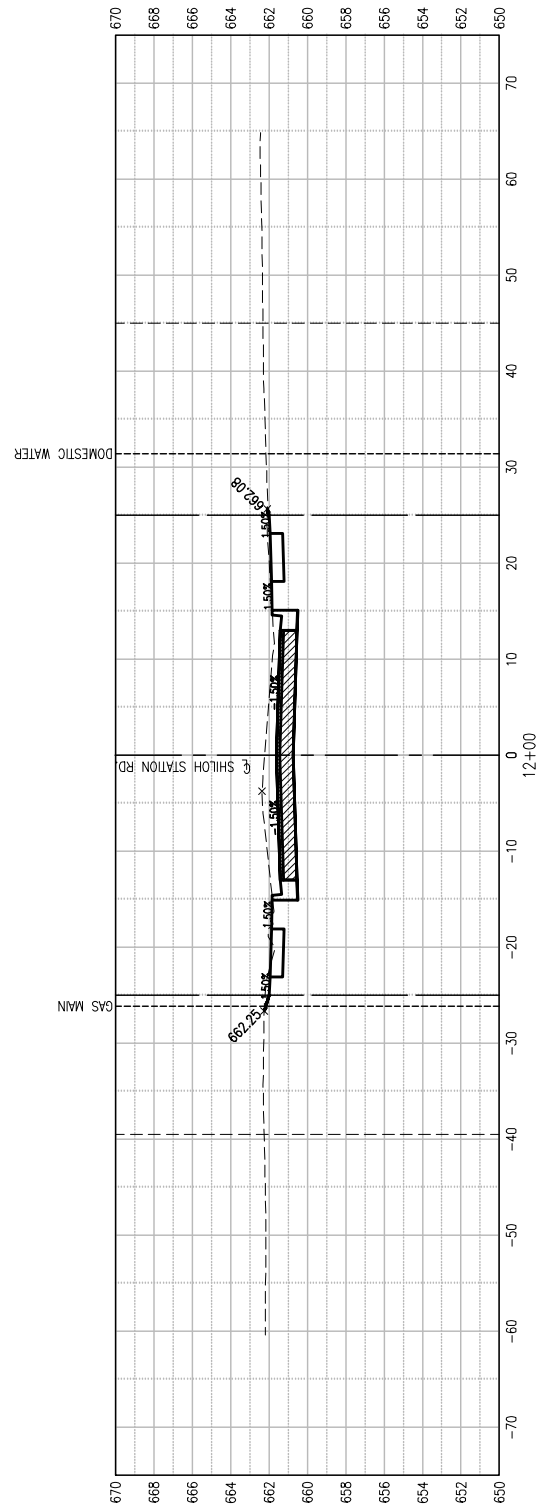
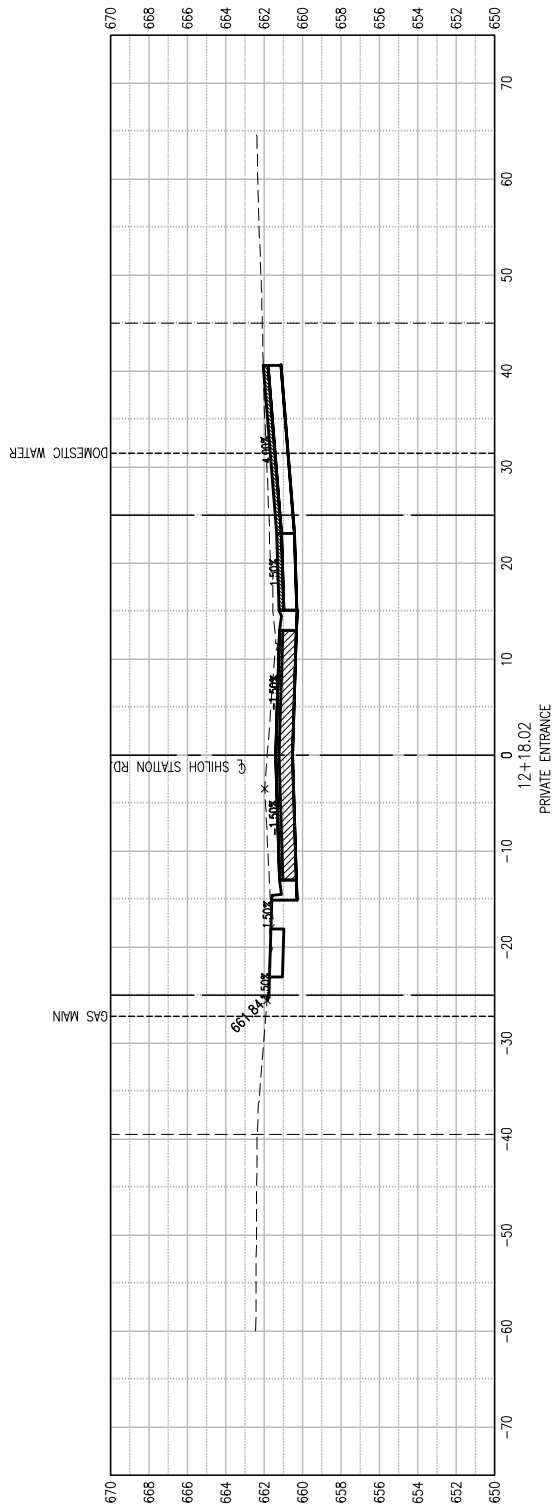
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 16-00011-06-PV/17-00011-07-PV

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DESIGNED BY: NTS	<b>33</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONST.	<input type="checkbox"/> RECORD DRAWING



SCALE  
 1"=5' VERTICAL  
 1"=10' HORIZONTAL

LEGEND  
 - - - - - EXISTING RIGHT OF WAY  
 - - - - - PROPOSED RIGHT OF WAY  
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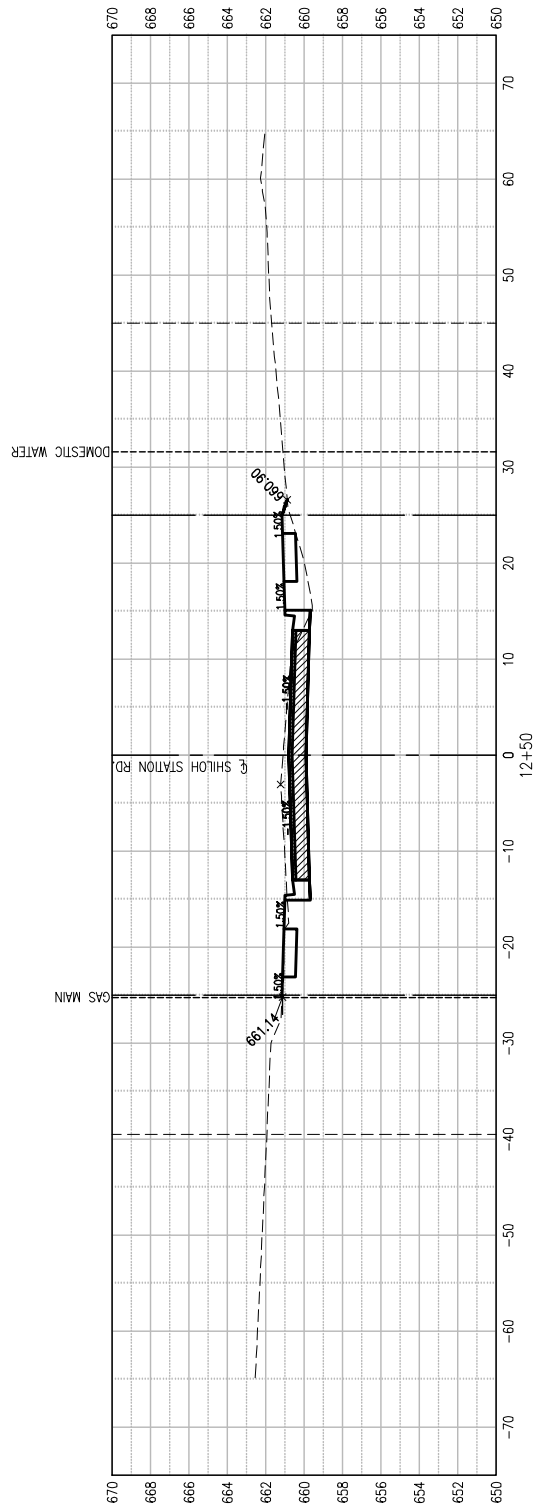
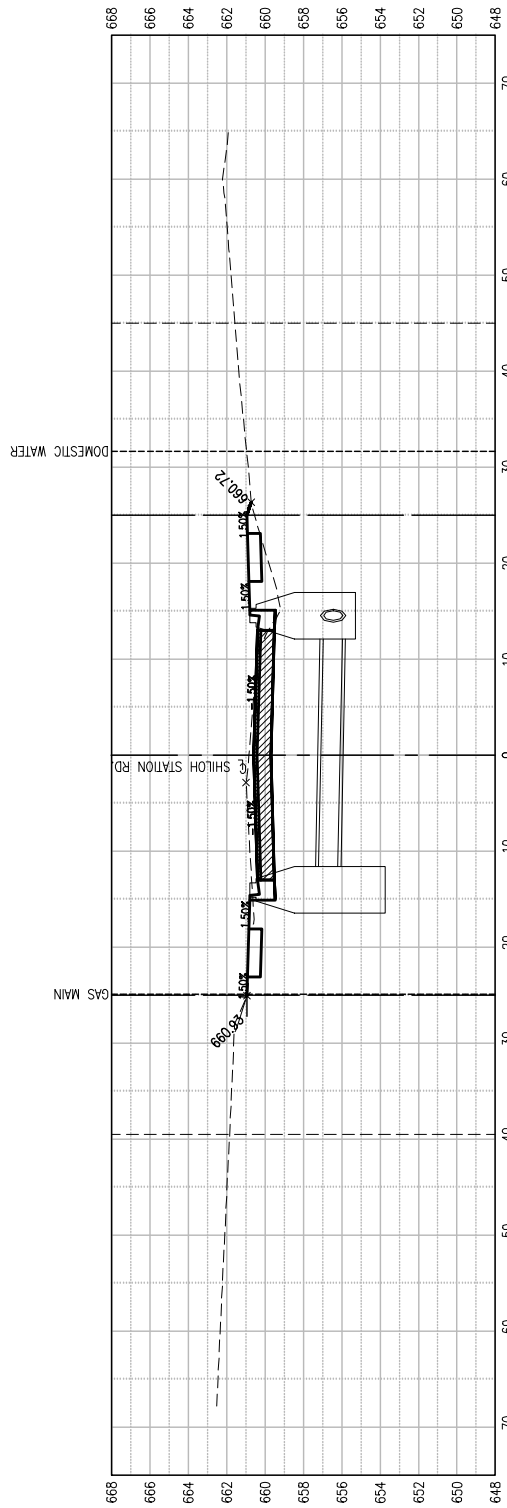
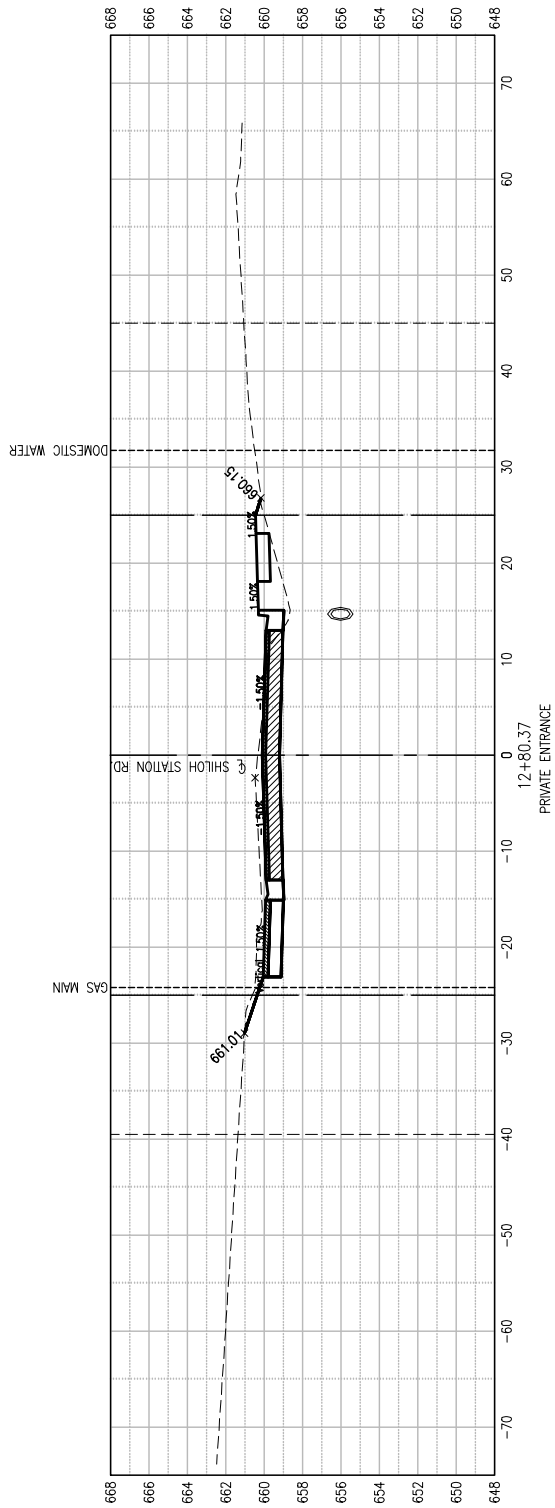
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 16-00011-06-PV/17-00011-07-PV

REV.	DATE	DESCRIPTION
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DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>34</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



SCALE  
 1/8" VERTICAL  
 1/10" HORIZONTAL

LEGEND  
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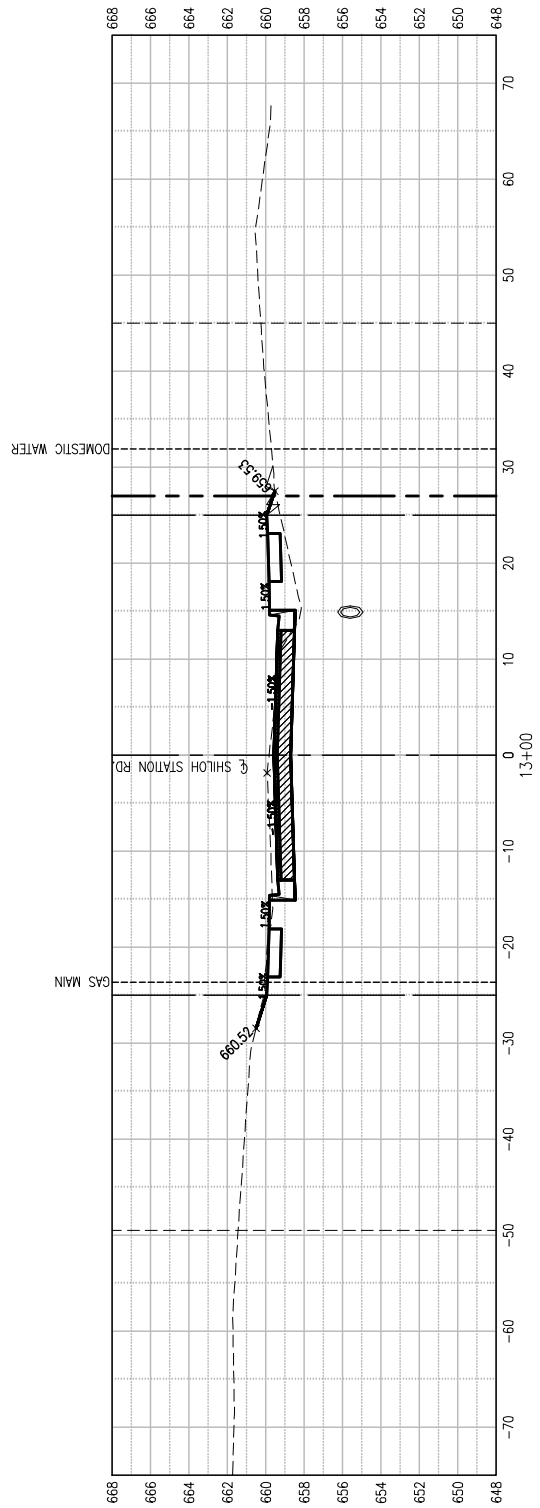
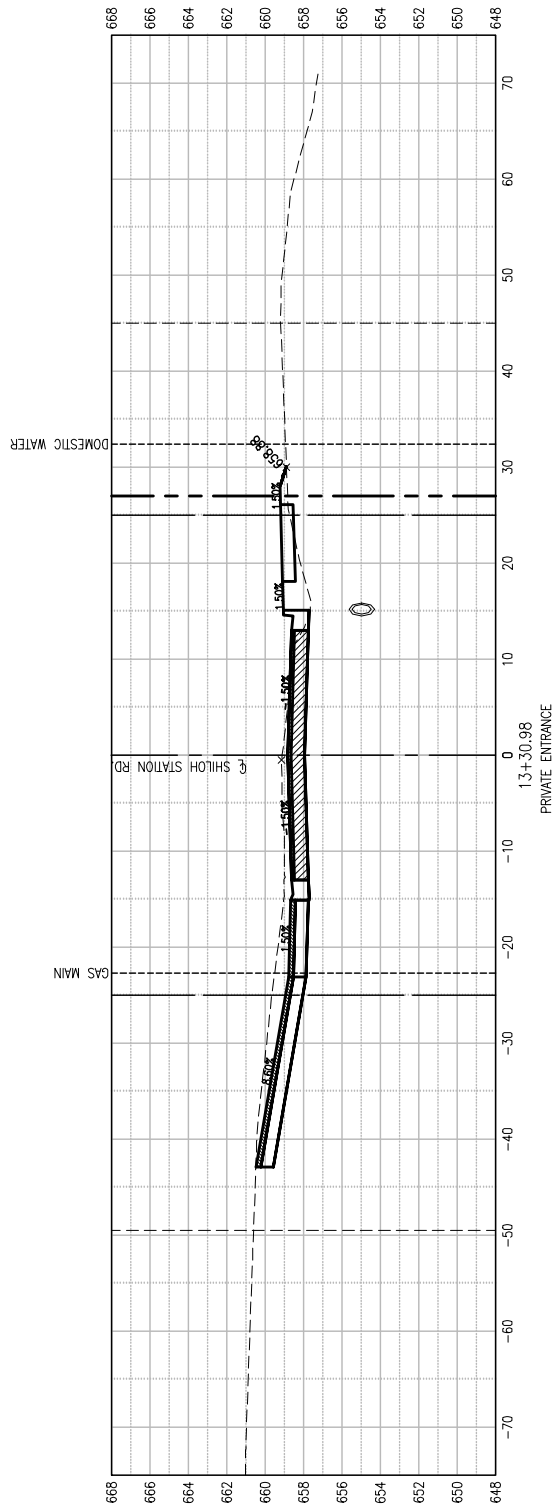
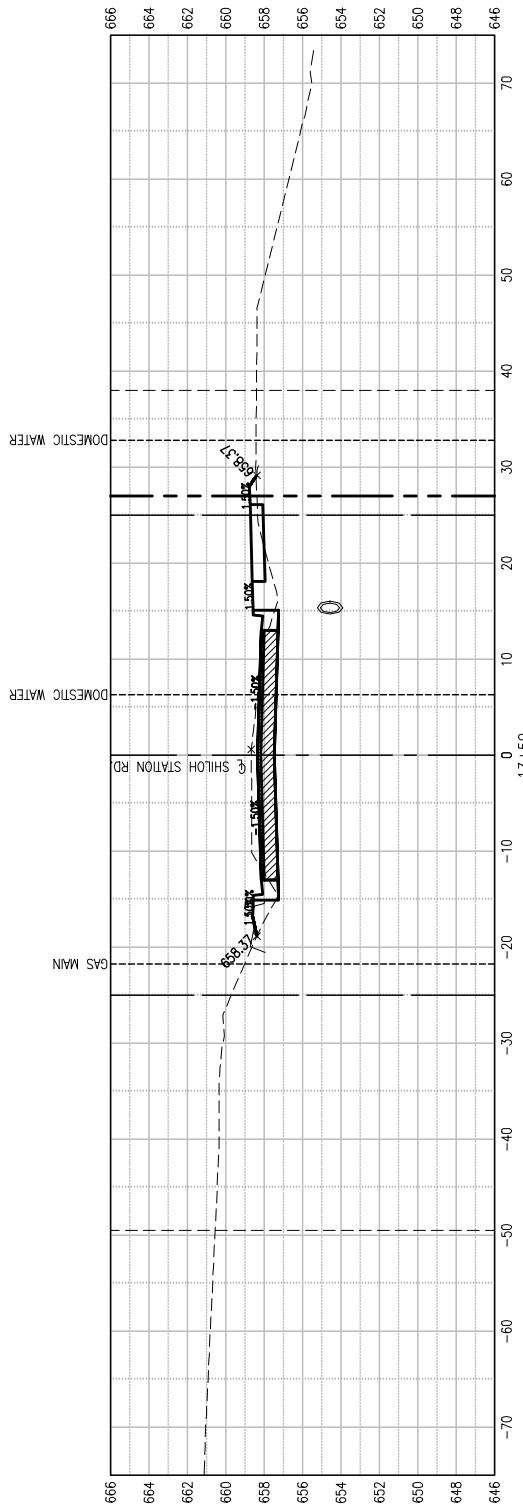
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 16-00011-06-PV/17-00011-07-PV

REV.	DATE	DESCRIPTION
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DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>35</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



SCALE  
 1"=5' VERTICAL  
 1"=10' HORIZONTAL

LEGEND  
 - - - - - EXISTING RIGHT OF WAY  
 - - - - - PROPOSED RIGHT OF WAY  
 - - - - - TEMPORARY CONSTRUCTION EASEMENT

NOTES:  
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CONTRACT #97692

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PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

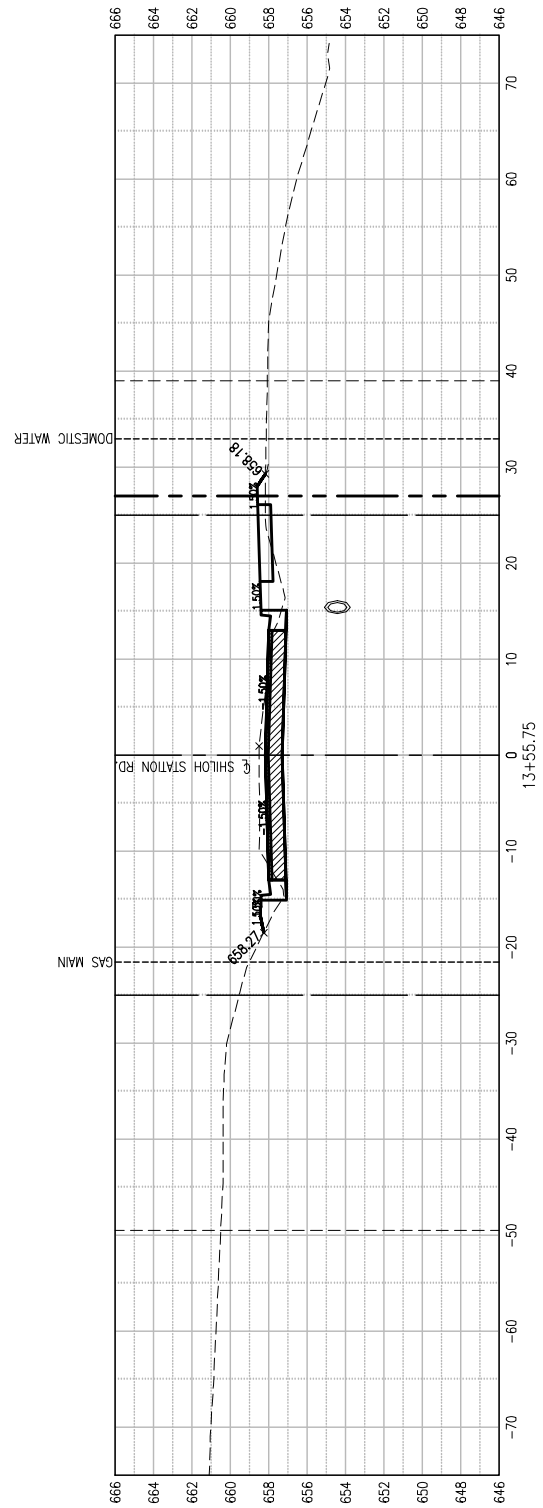
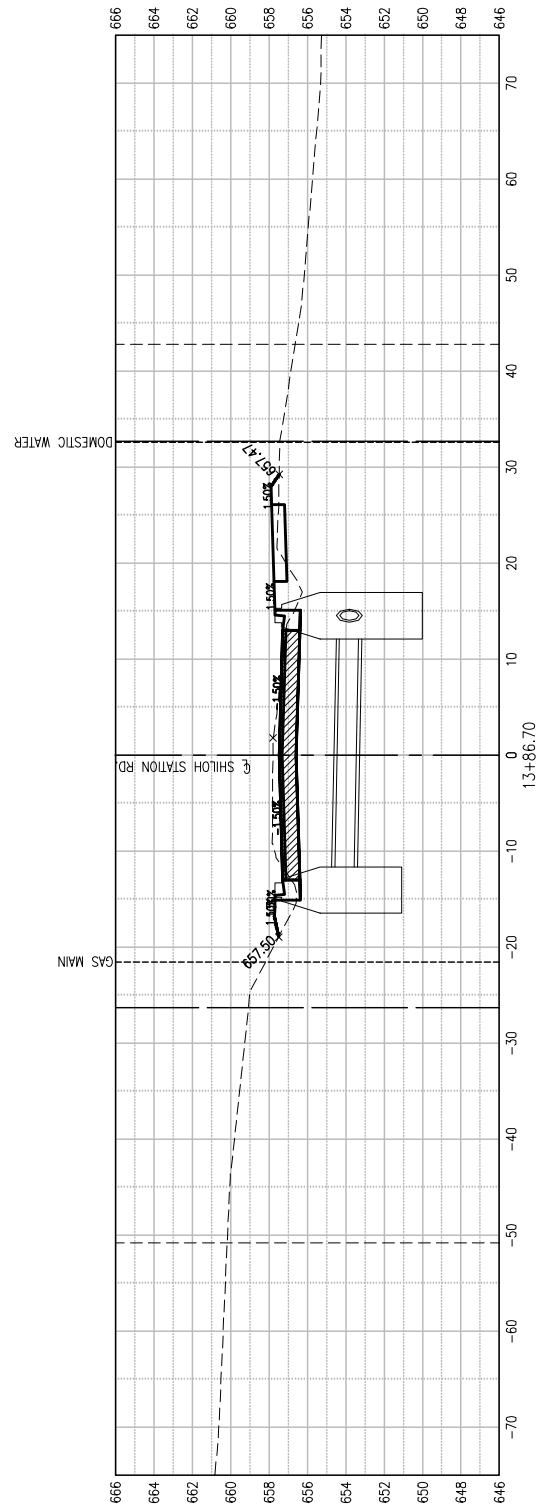
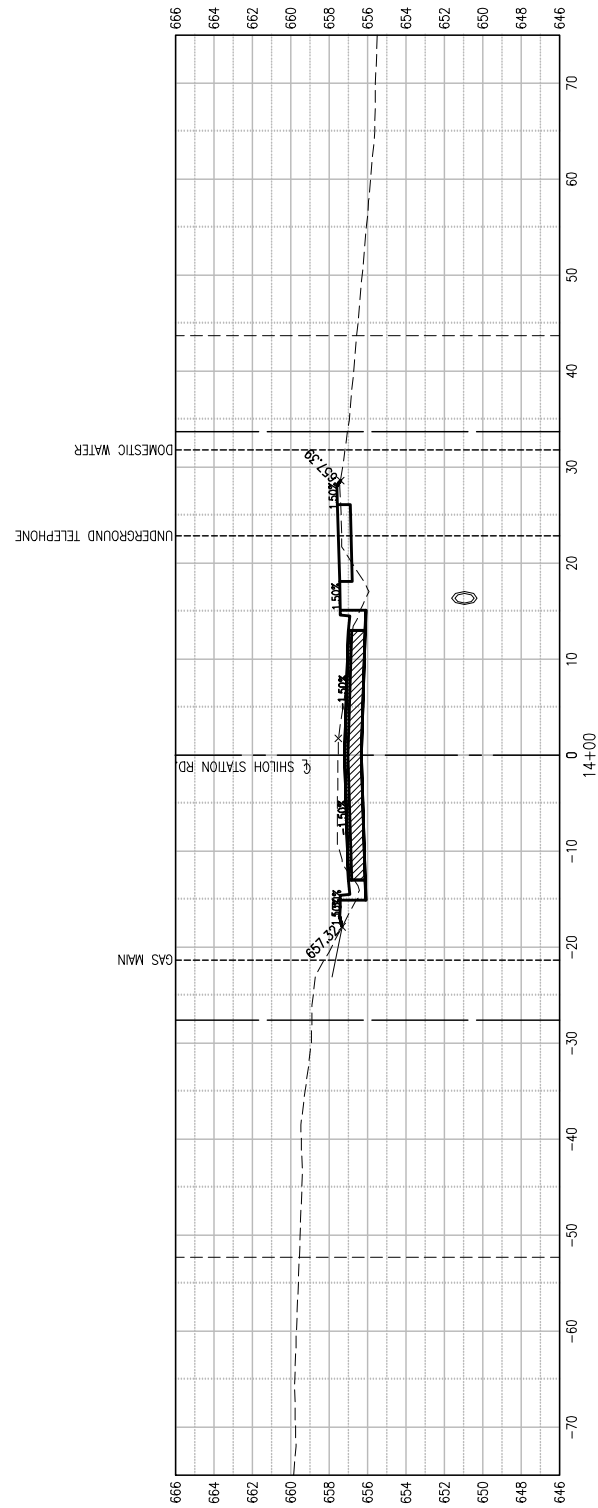
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**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS  
 16-00011-06-PV/17-00011-07-PV

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SCALE  
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LEGEND  
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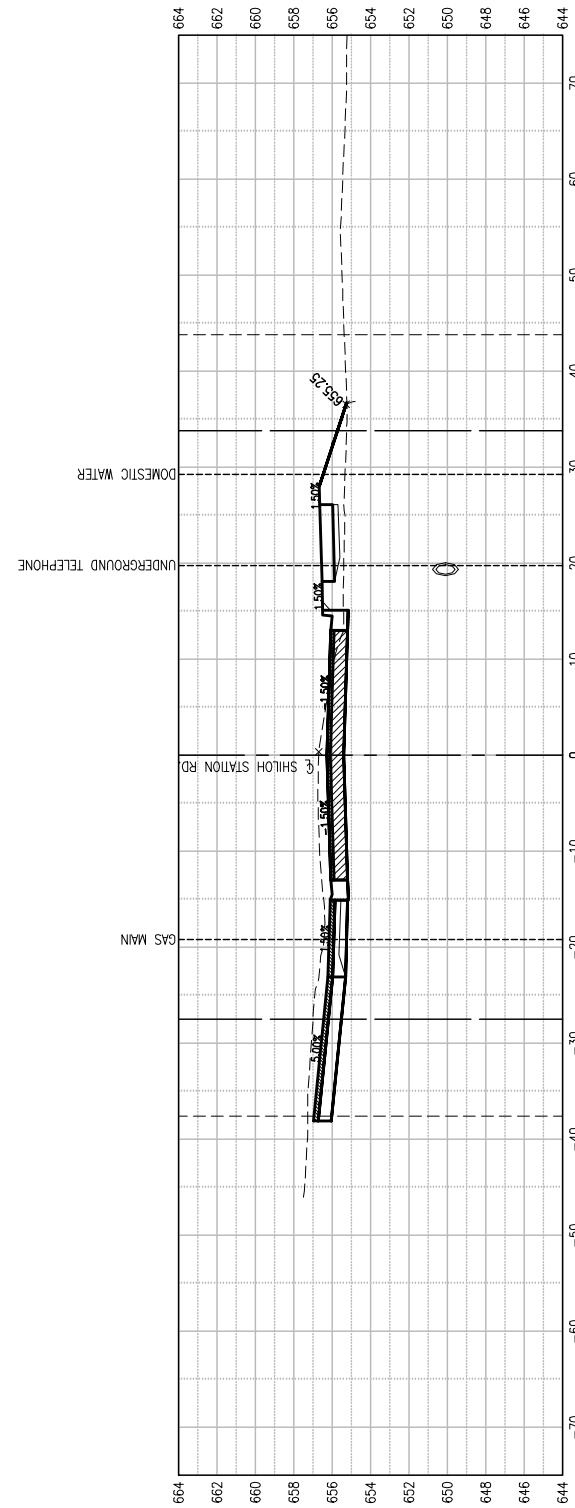
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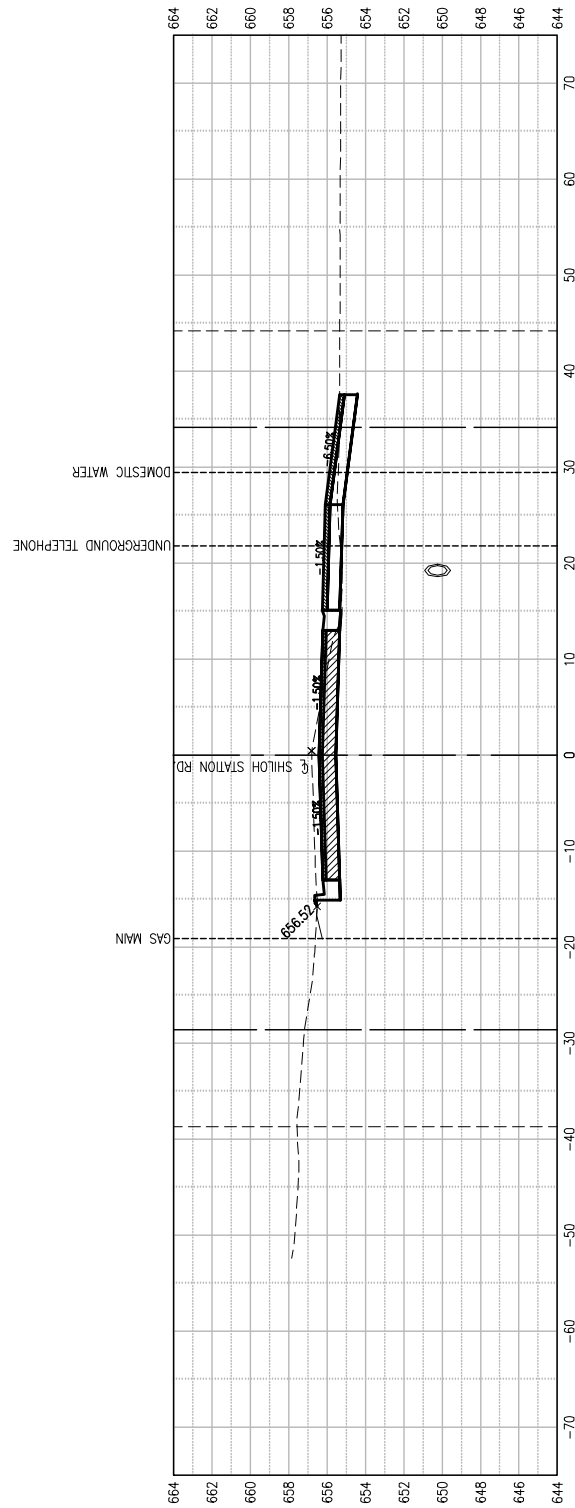
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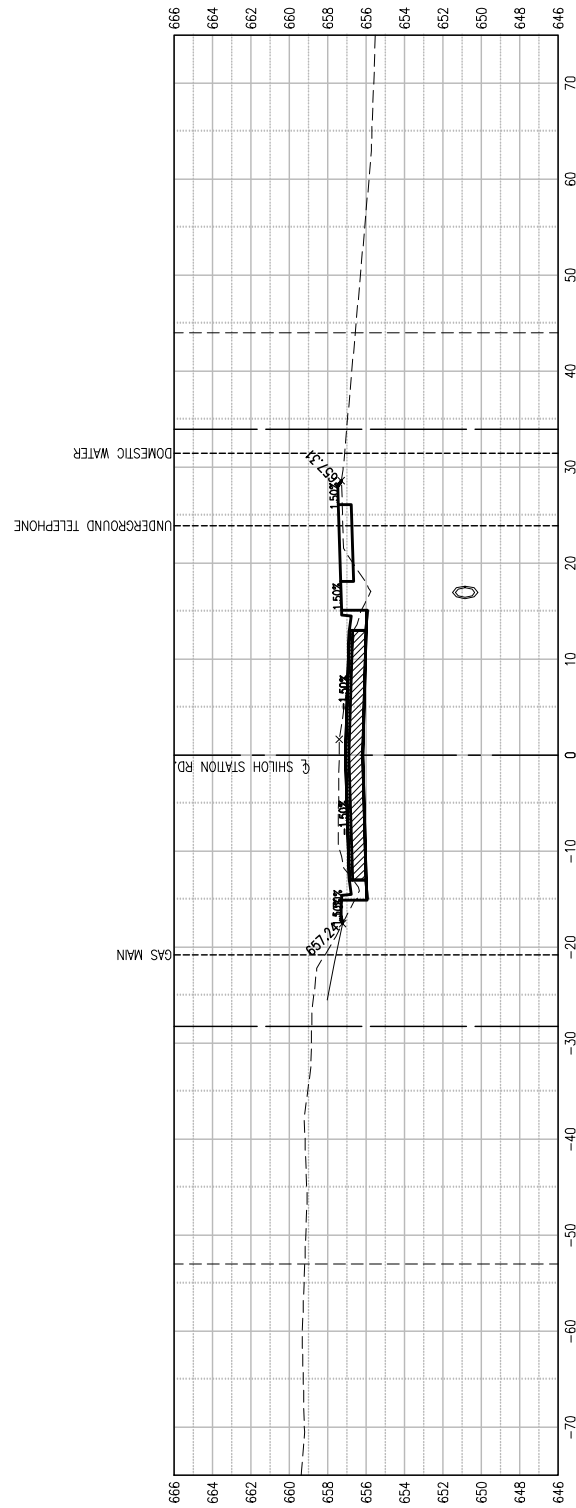
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<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



FERN GLEN PRESERVE - PRIVATE ROADWAY  
 14+48.89



PRIVATE ENTRANCE  
 14+40.27



14+05.17

SCALE  
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 1"=10' HORIZONTAL

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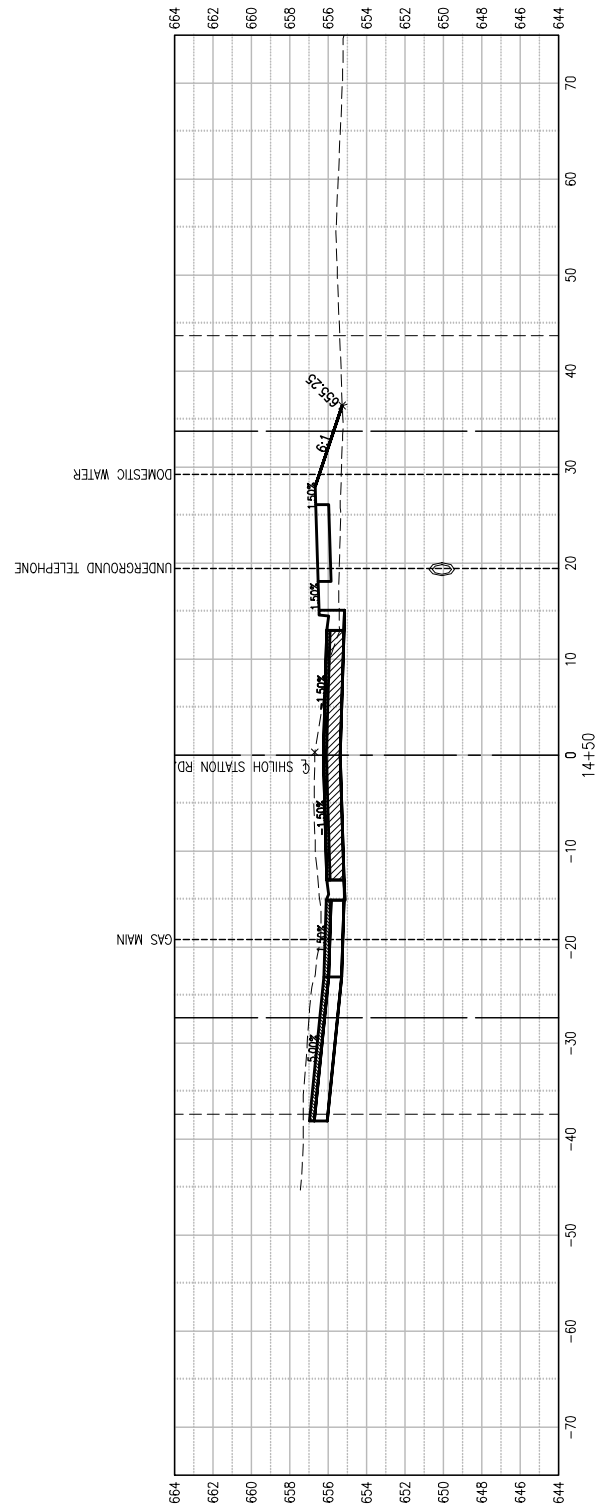
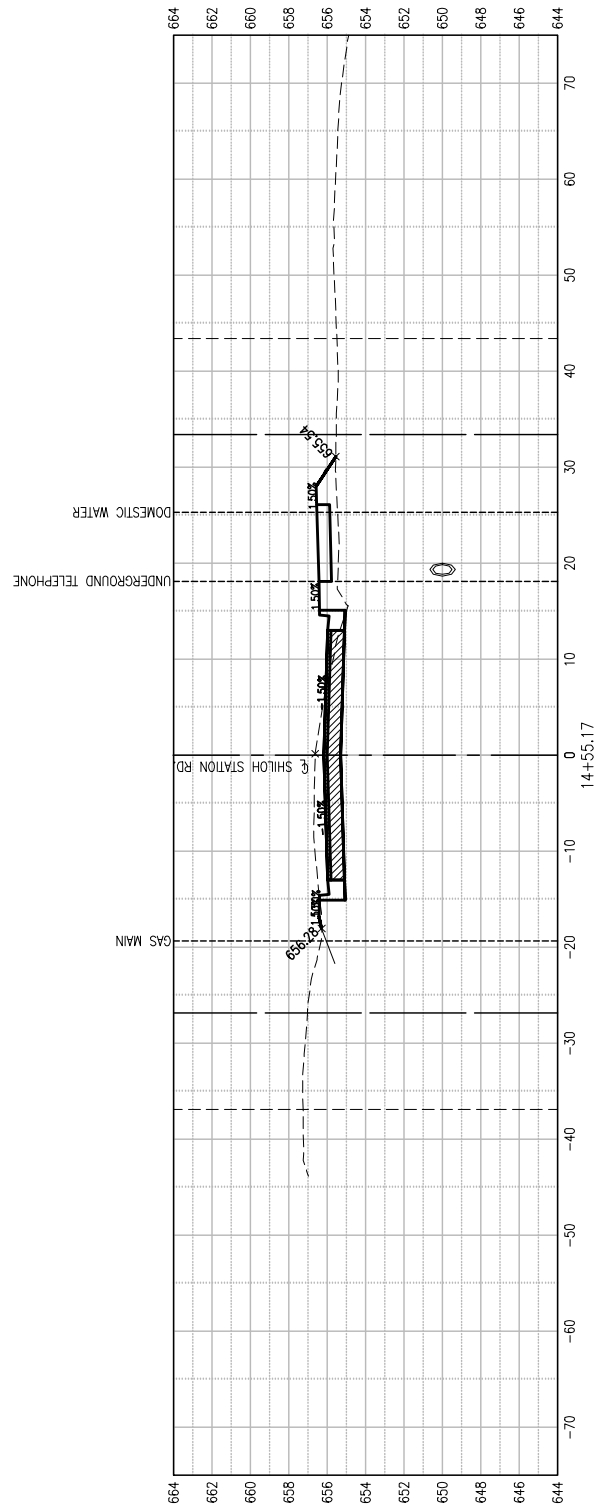
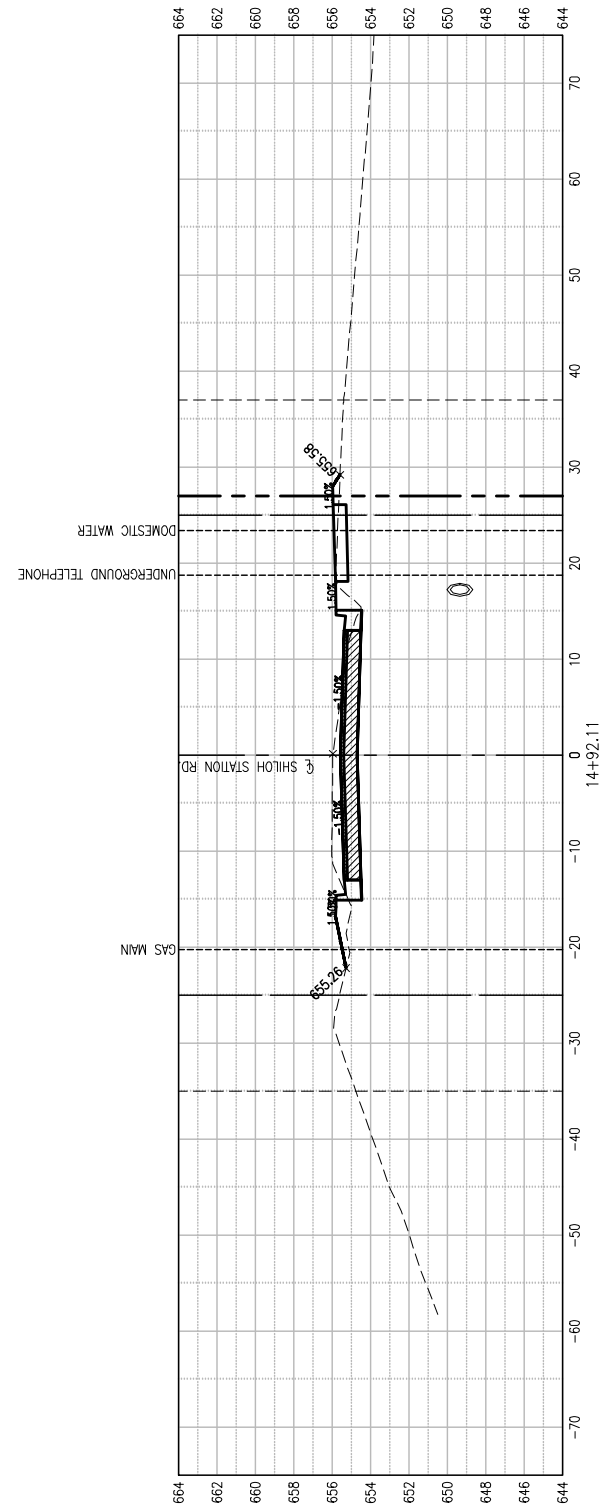
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DESIGNED BY: NTS	<b>38</b>
CHECKED BY: NTS	OF 47 SHEETS
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SCALE  
 1/8" VERTICAL  
 1/10" HORIZONTAL

LEGEND  
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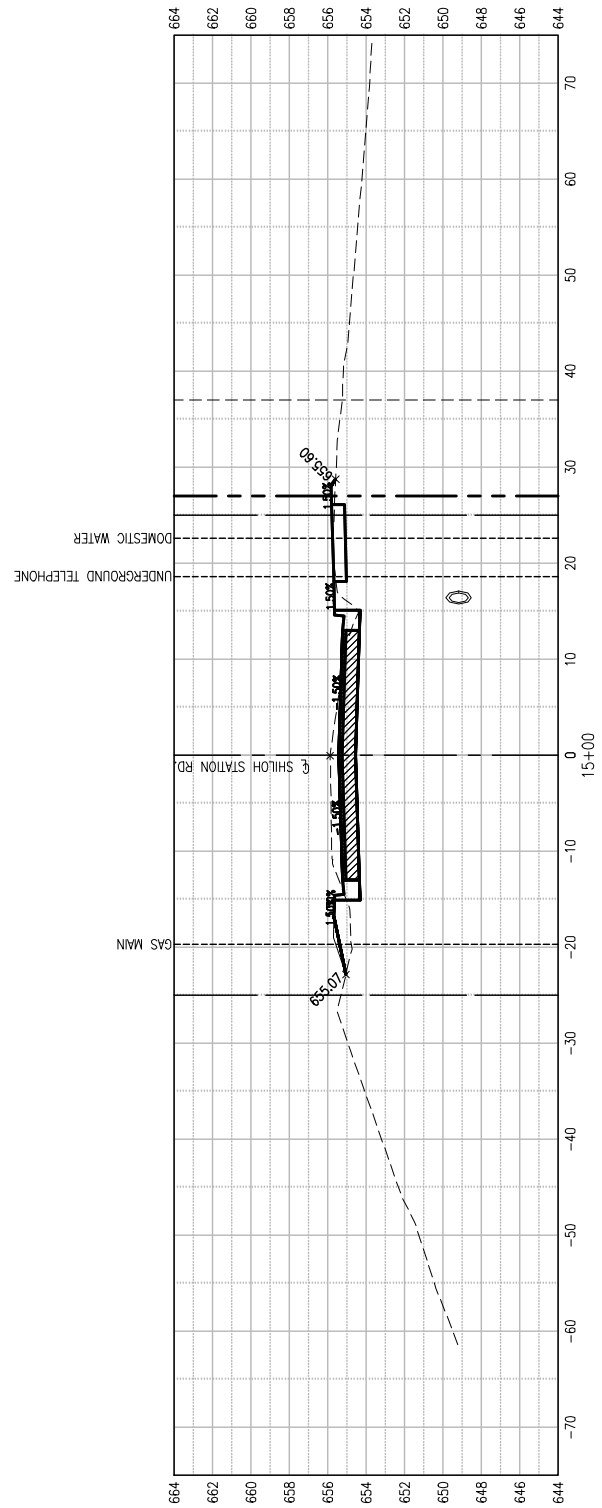
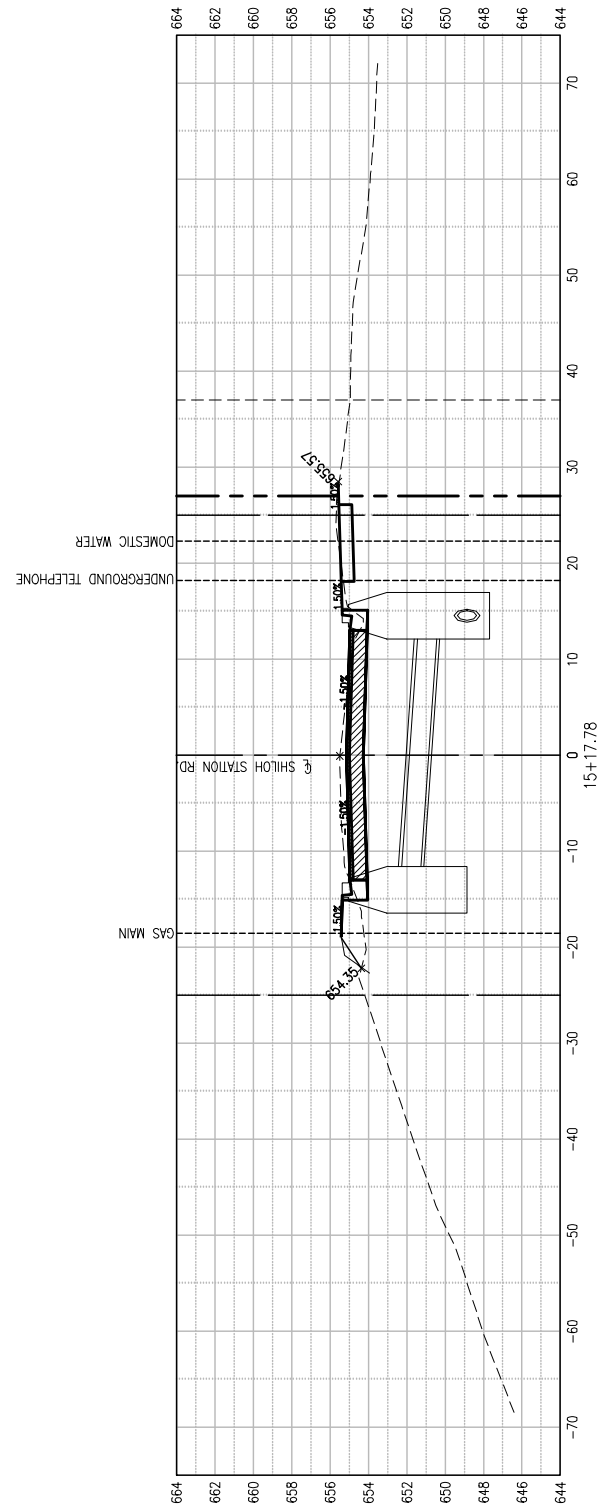
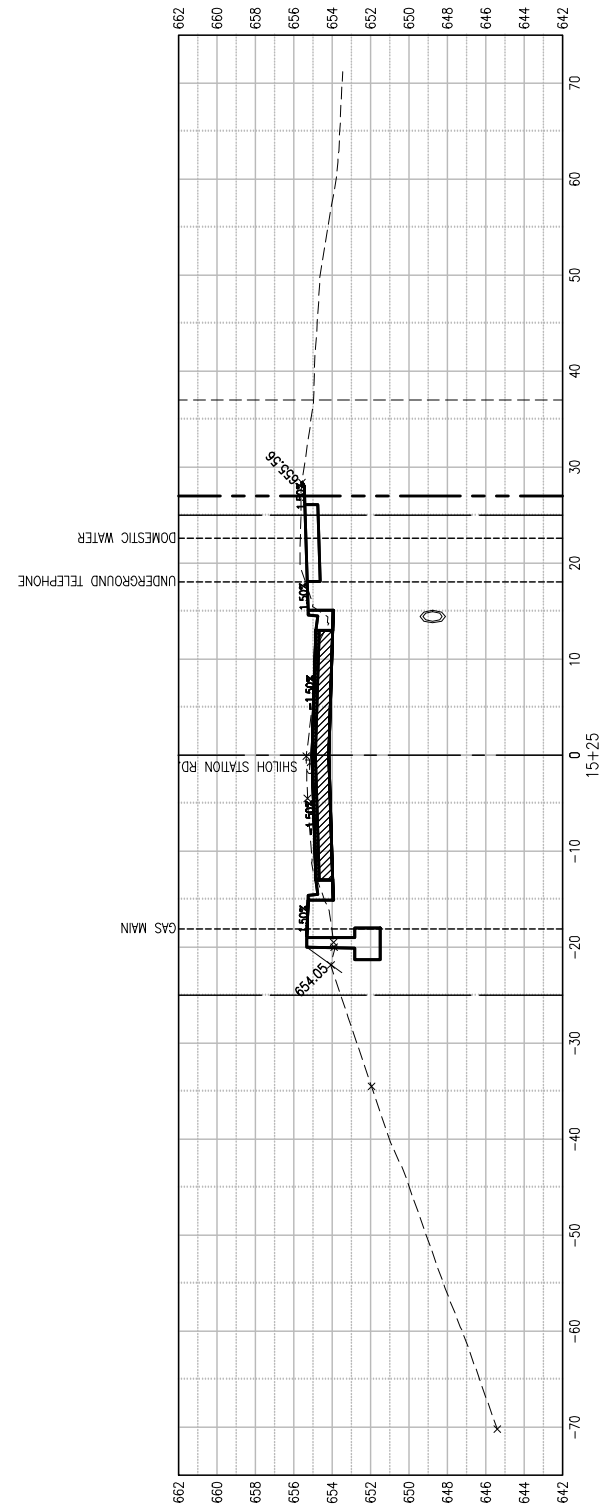
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 16-00011-06-PV/17-00011-07-PV

REV.	DATE	DESCRIPTION
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DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>39</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
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SCALE  
 1"=5' VERTICAL  
 1"=10' HORIZONTAL

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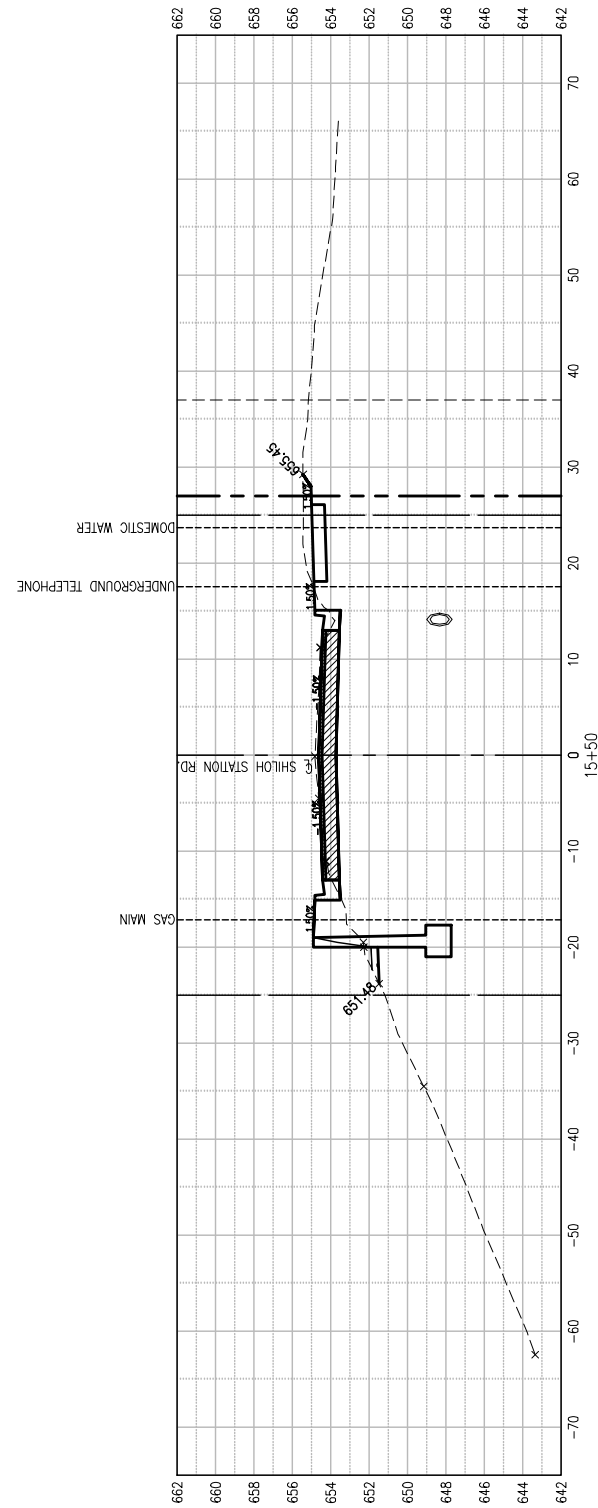
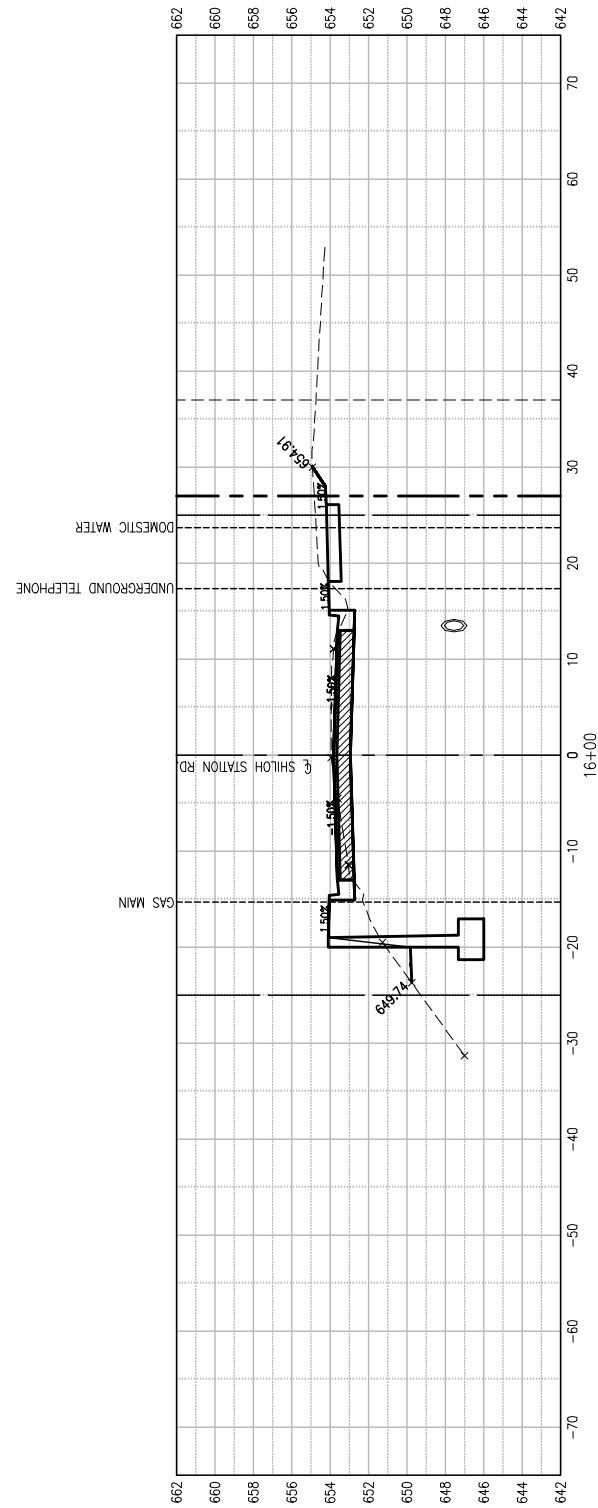
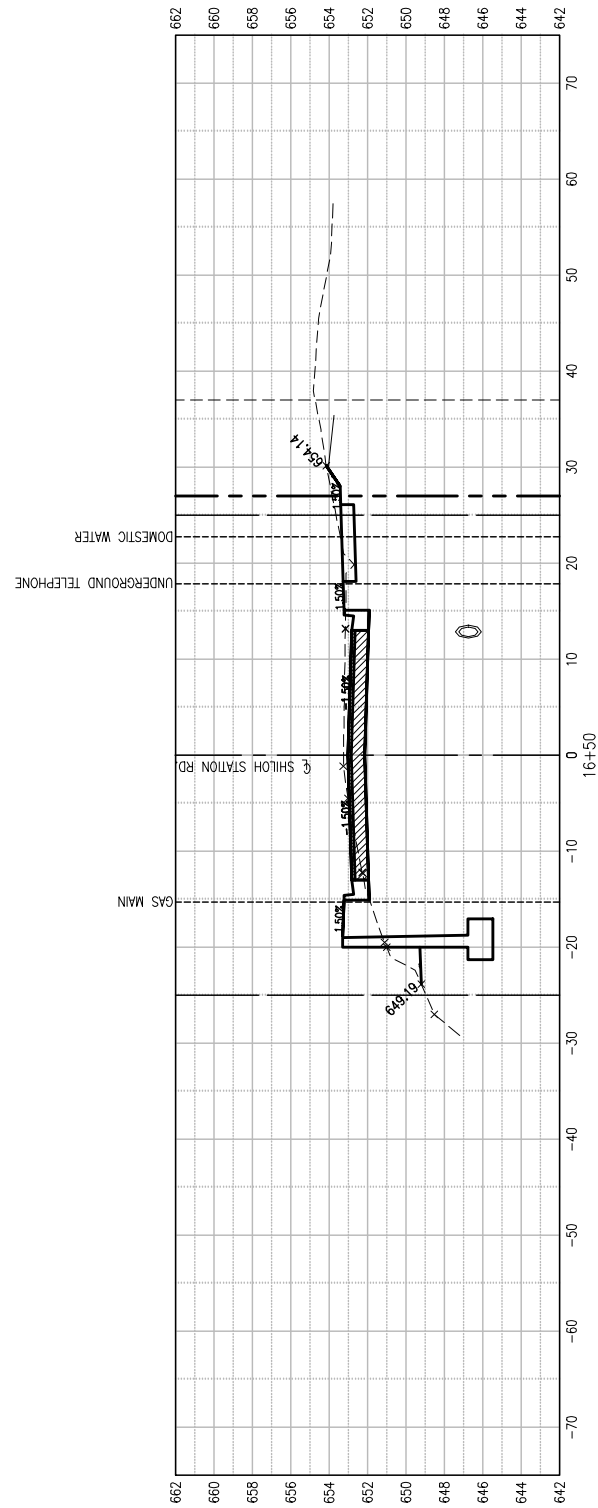
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SCALE  
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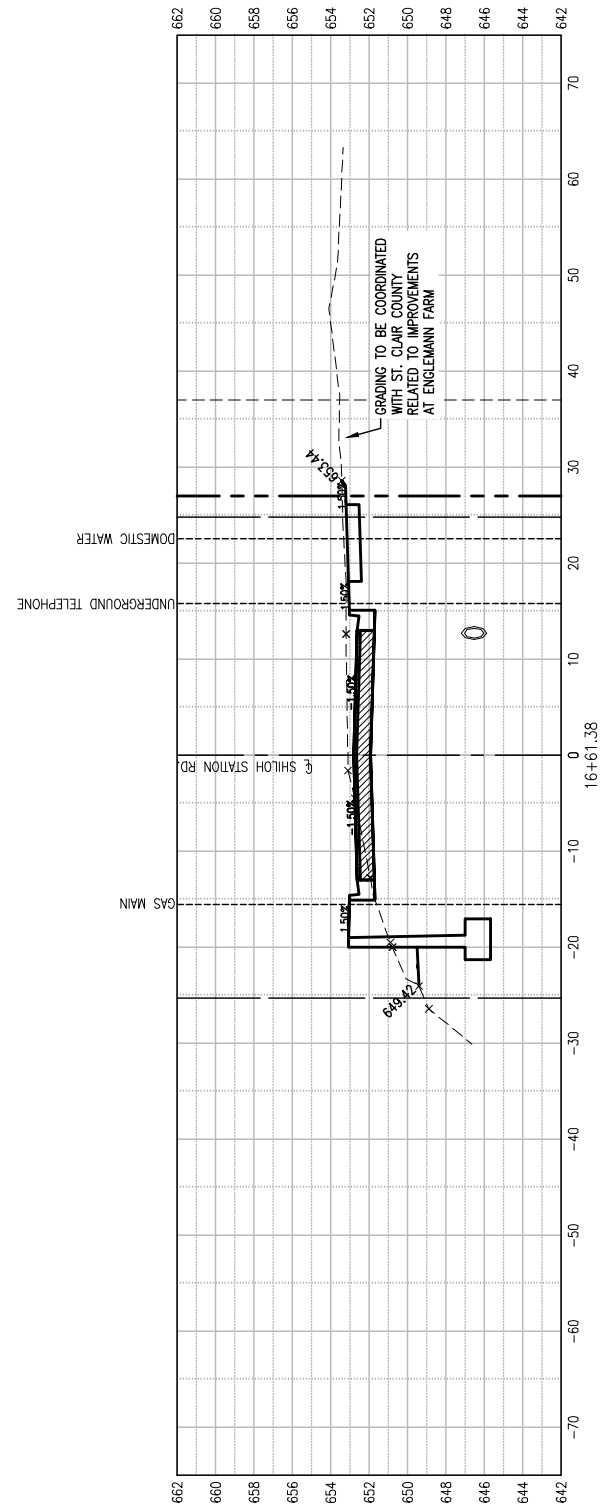
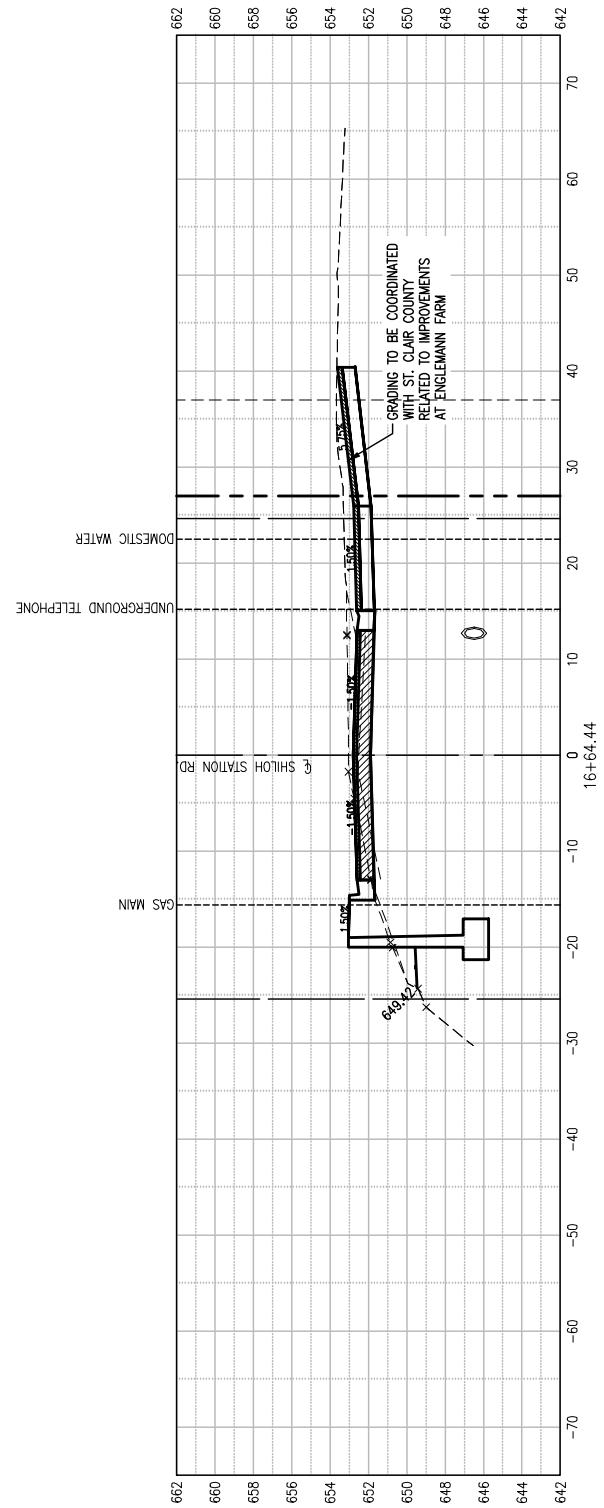
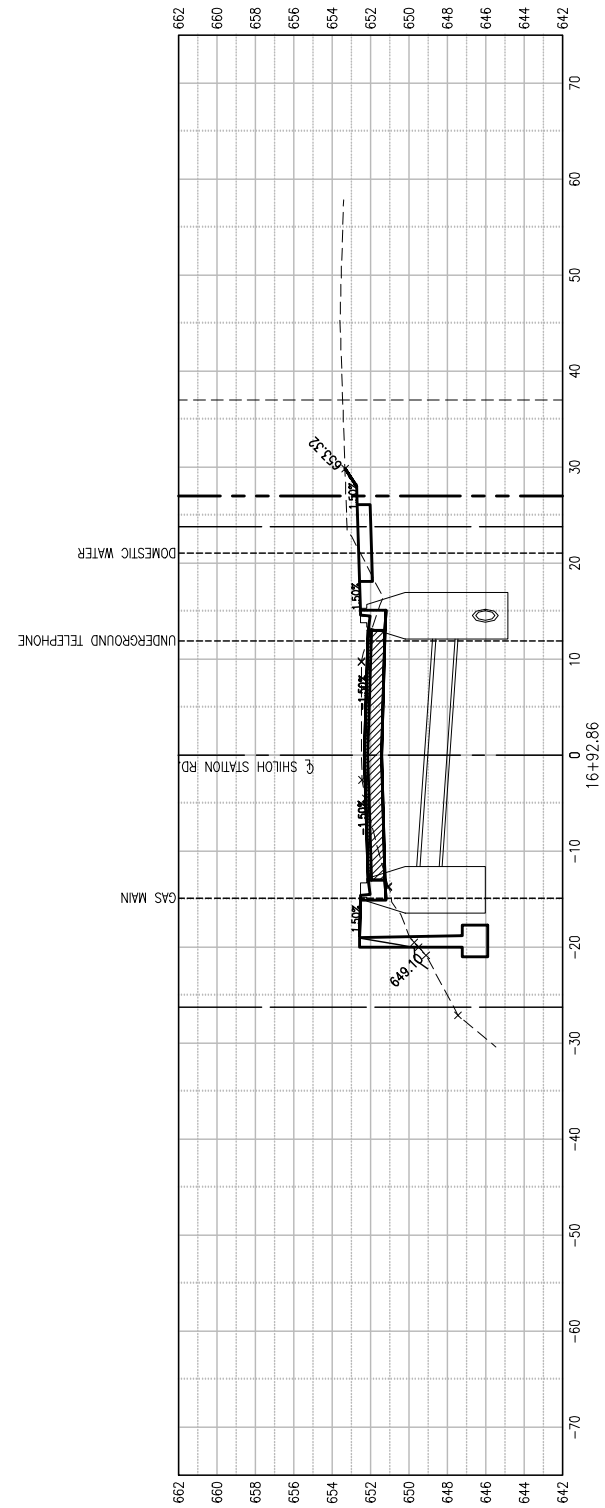
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 720 OLIVE ST., SUITE 200A  
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 400 N. 5TH STREET, SUITE 101  
 ST. CHARLES, MISSOURI 63301  
 TEL (636) 724-8300  
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PROFESSIONAL REGISTRATIONS	LICENSE NO.
ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

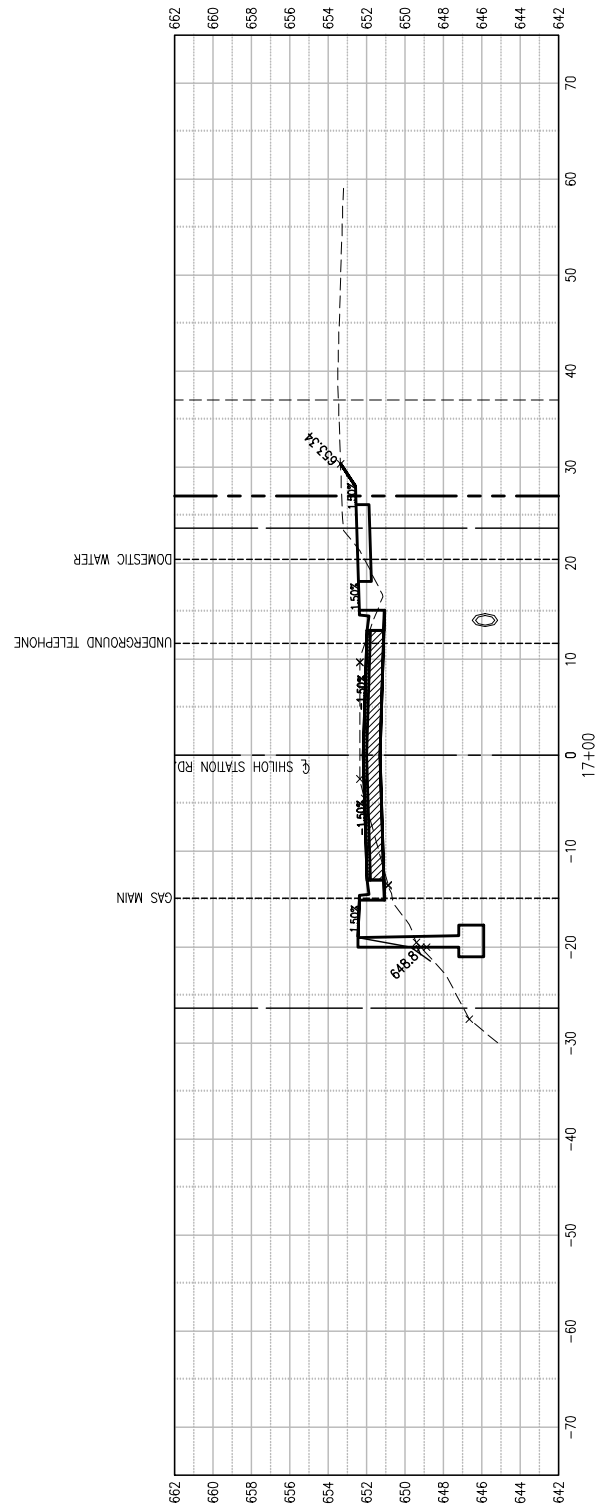
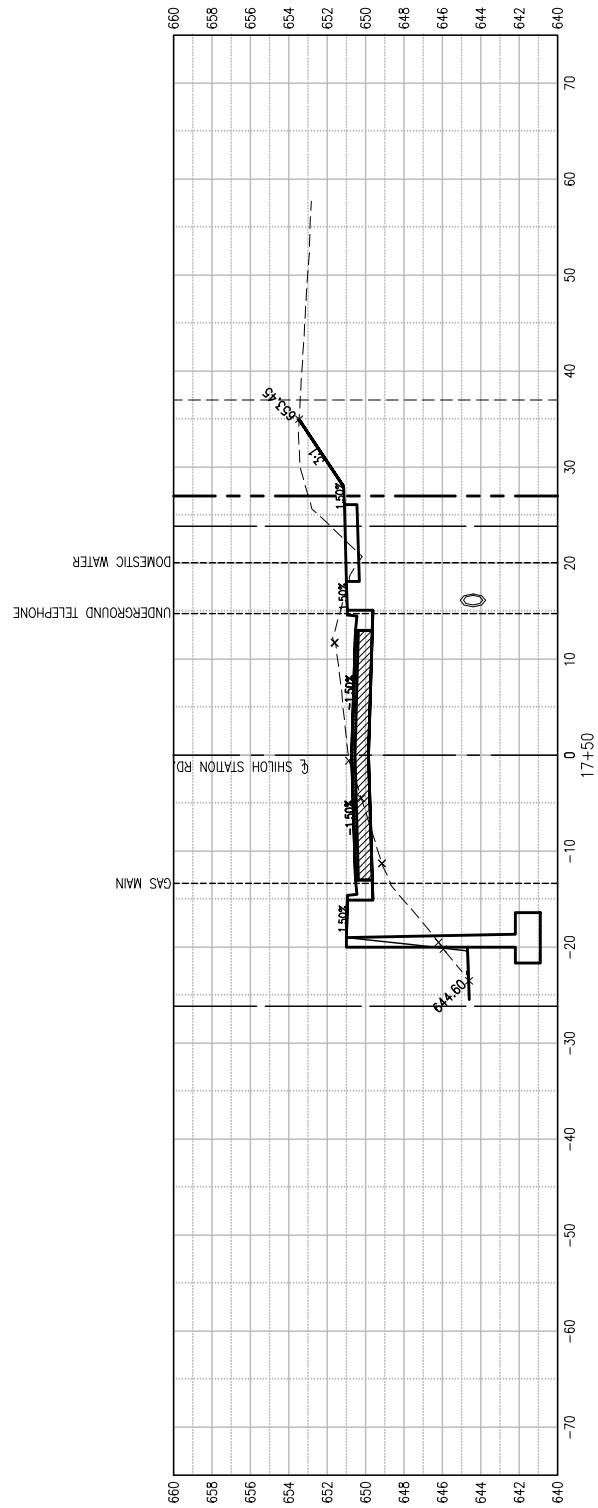
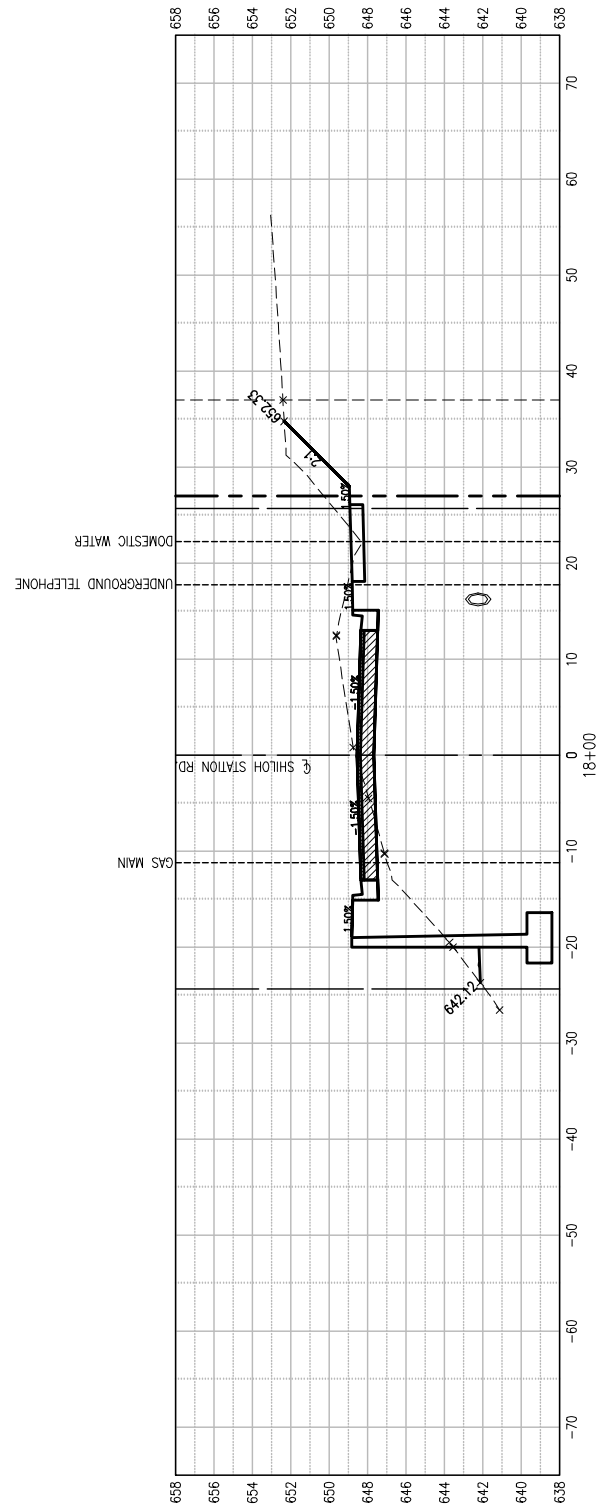
SEAL  
 Signature: _____  
 Signature Date: _____  
 Expiration Date: _____

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**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 CROSS SECTIONS  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS  
 16-00011-06-PV/17-00011-07-PV

REV.	DATE	DESCRIPTION
△		
△		
△		

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>42</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONST.	<input type="checkbox"/> RECORD DRAWING



SCALE  
 1.5" VERTICAL  
 1"=10' HORIZONTAL

LEGEND  
 - - - - - EXISTING RIGHT OF WAY  
 - - - - - PROPOSED RIGHT OF WAY  
 - - - - - TEMPORARY CONSTRUCTION EASEMENT

- NOTES:  
 1. ALL STORM SEWER SHOWN IS PROPOSED  
 2. ALL OTHER UTILITY LOCATIONS SHOWN ARE EXISTING AND ARE BASED OFF THE BEST AVAILABLE RECORD DRAWINGS, TOPOGRAPHIC SURVEYS, AND J.U.L.I.E. LOCATIONS. THE LOCATIONS SHOWN ARE APPROXIMATE AND NO DEPTHS HAVE BEEN DETERMINED.

**THOUVENOT, WADE & MOERCHEN, INC.**  
 ENGINEERS ♦ SURVEYORS ♦ PLANNERS



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 FAX (618) 624-6688
- WATERLOO OFFICE**  
 113 SOUTH MAIN STREET  
 WATERLOO, ILLINOIS 62298  
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MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
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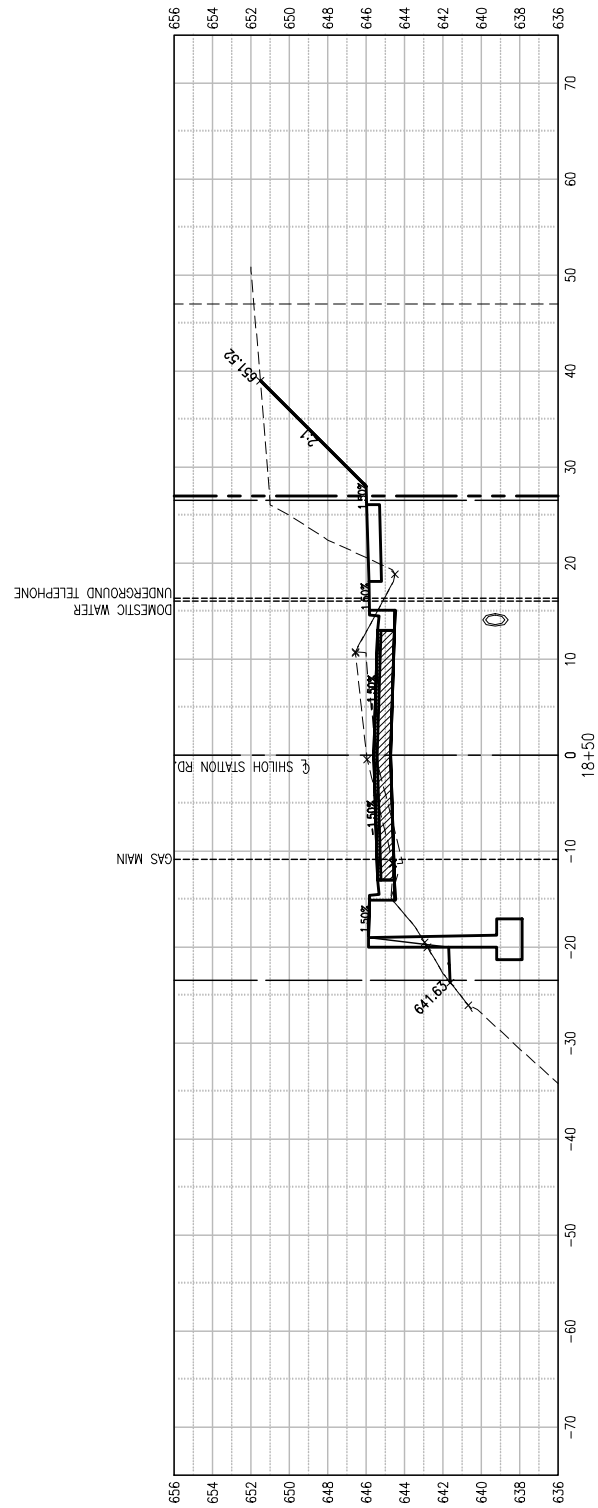
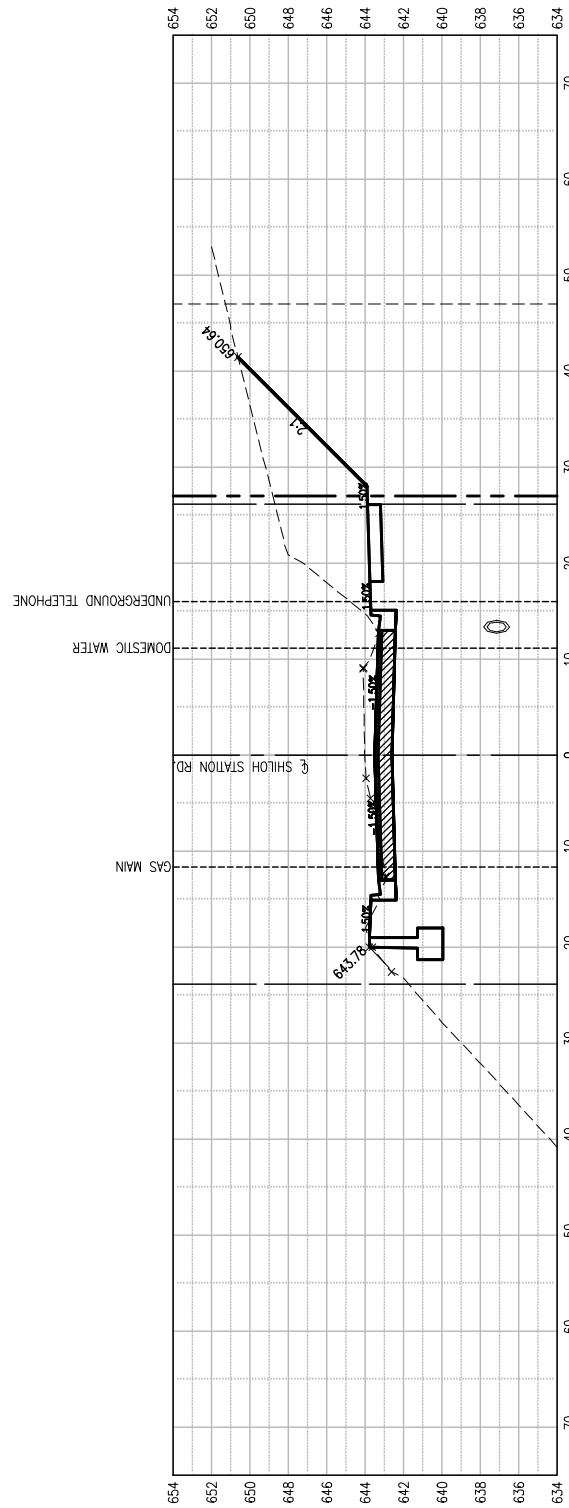
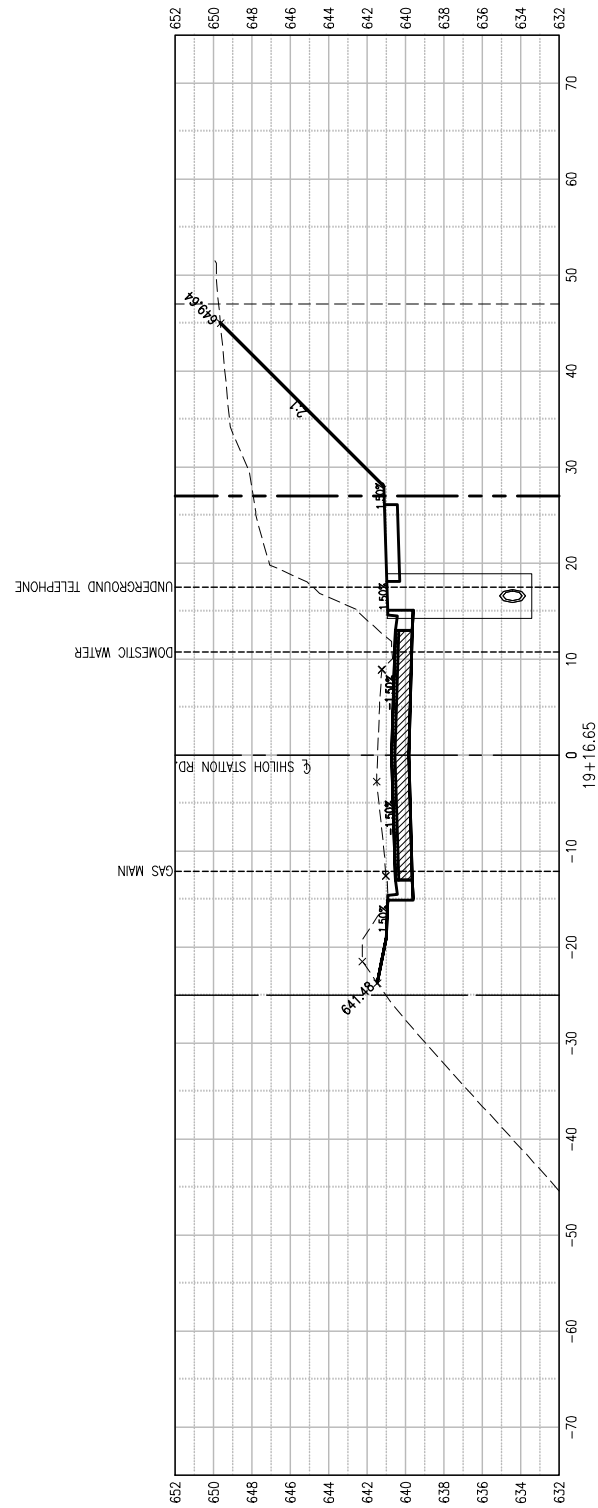
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REV	DATE	DESCRIPTION
△		
△		
△		

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>43</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



SCALE  
 1"=5' VERTICAL  
 1"=10' HORIZONTAL

LEGEND  
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CONTRACT #97692

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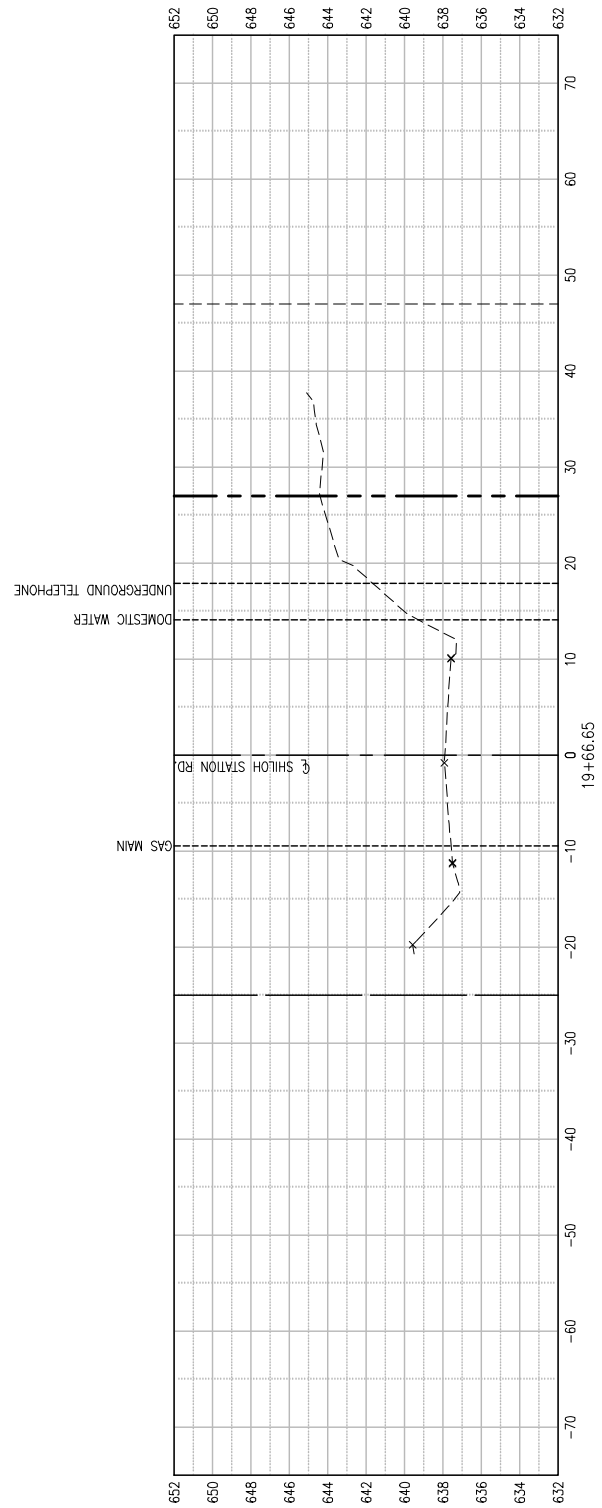
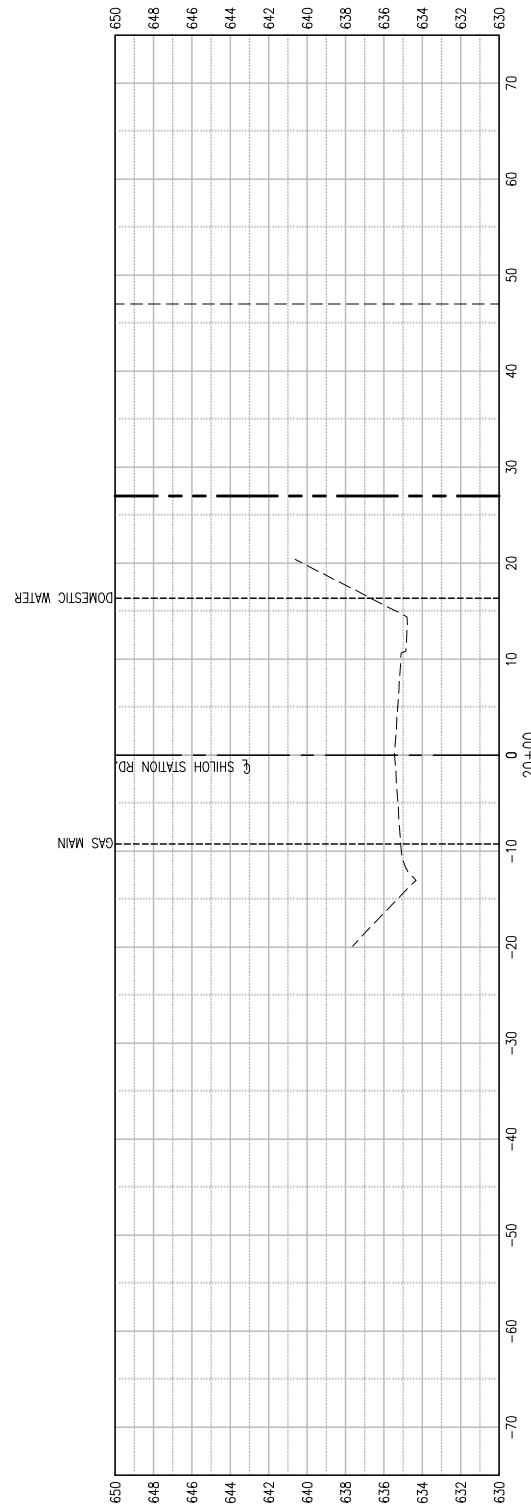
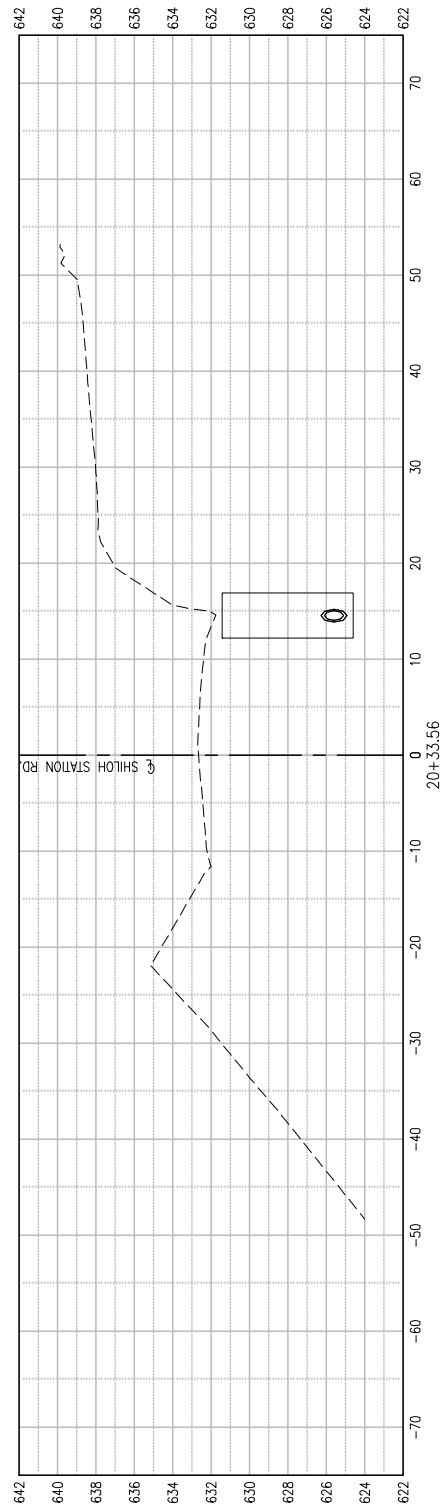
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 OF 47 SHEETS

REV.	DATE	DESCRIPTION

DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>44</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	SHILOH STATION ROAD PHASE 6 & 7
PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONST.	<input type="checkbox"/> RECORD DRAWING



SCALE  
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 1"=10' HORIZONTAL

LEGEND  
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MISSOURI LAND SURVEYING CORP.	NC 000346

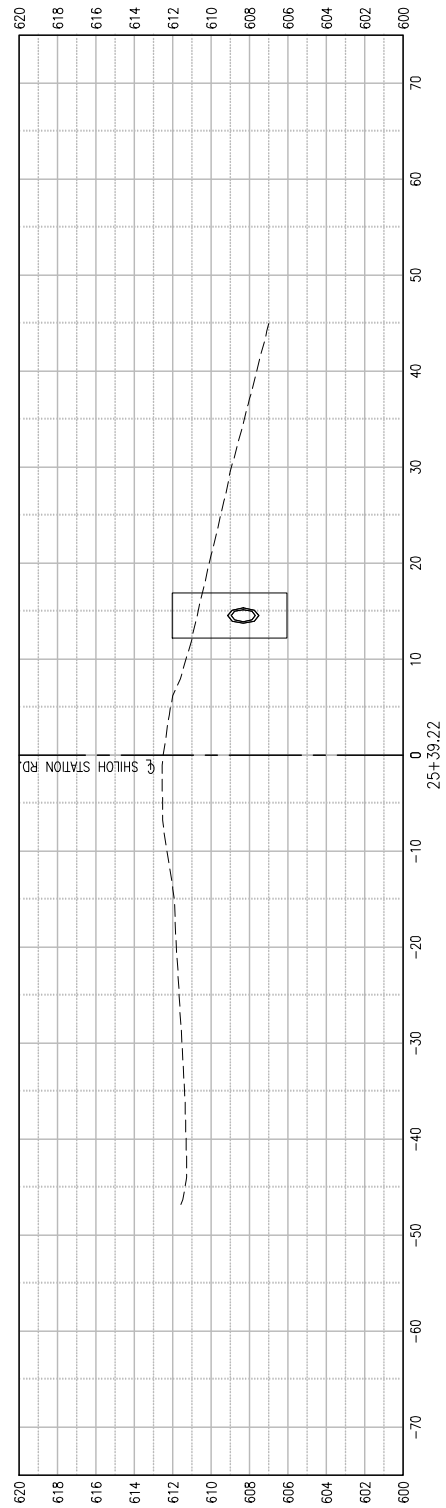
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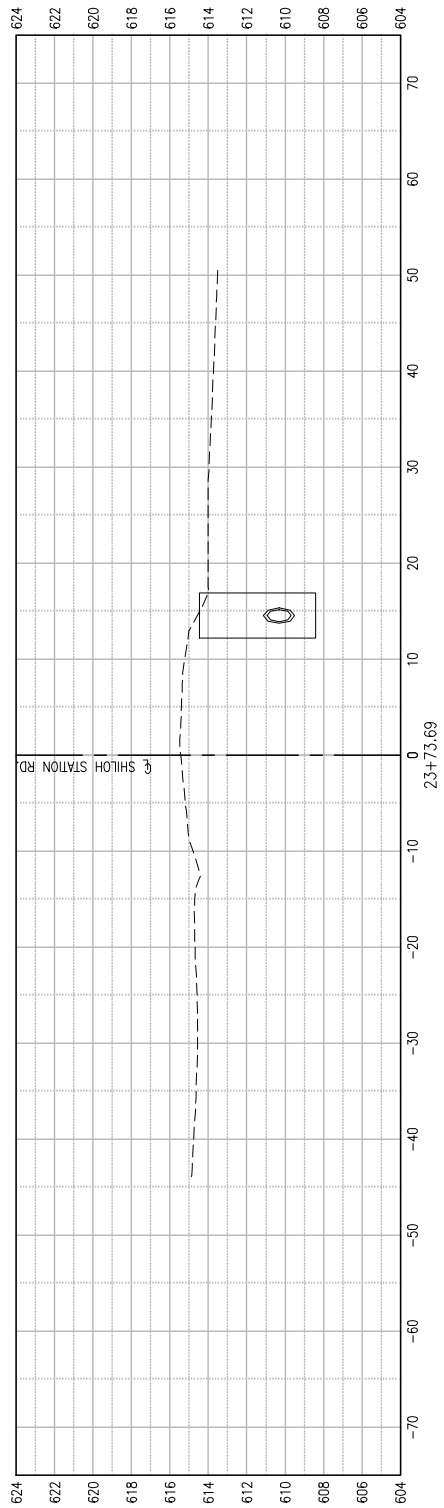
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REV.	DATE	DESCRIPTION
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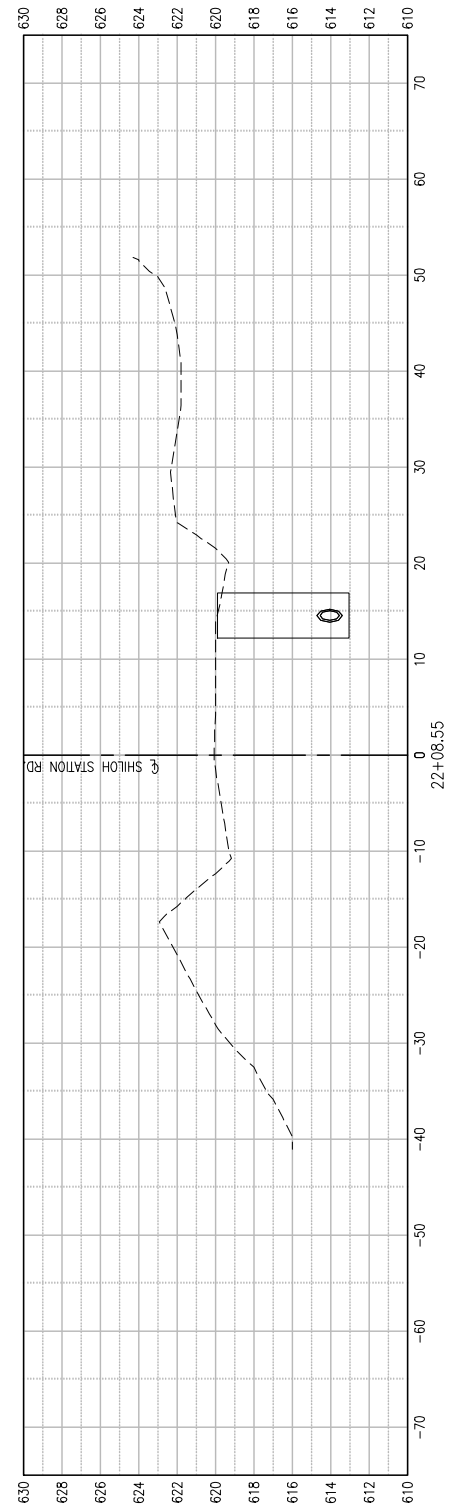
DRAWN BY: LEM	SHEET
DESIGNED BY: NTS	<b>45</b>
CHECKED BY: NTS	OF 47 SHEETS
APPROVED BY: NTS	
PROJECT NUMBER: T25160010A	SHILOH STATION ROAD PHASE 6 & 7
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



25+39.22



23+73.69



22+08.55

SCALE  
 1"=5' VERTICAL  
 1"=10' HORIZONTAL

LEGEND  
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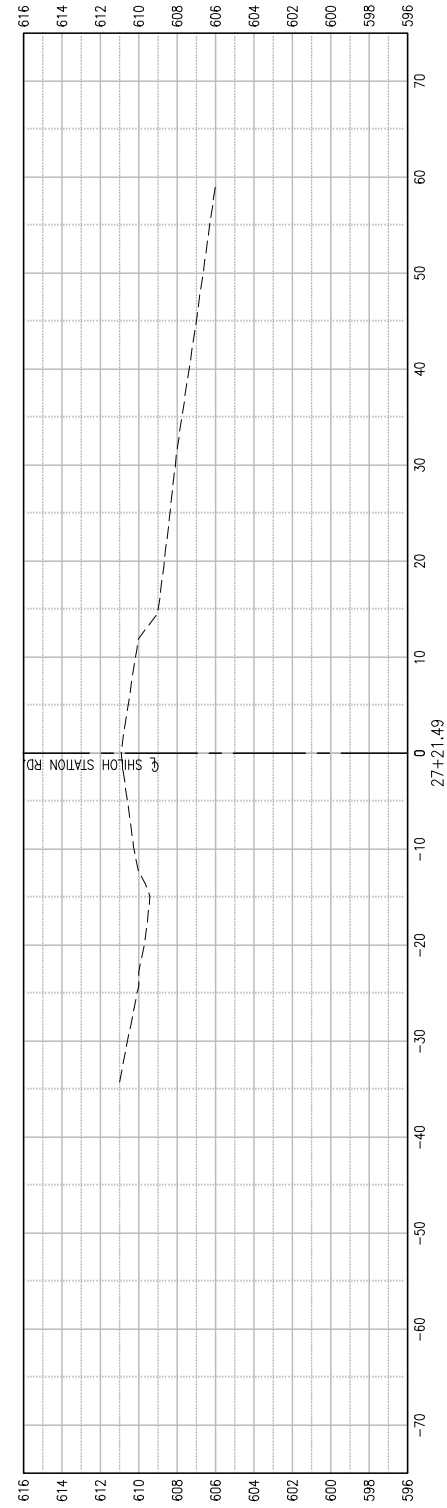
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DRAWN BY: LEM	SHEET
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CHECKED BY: NTS	OF 47 SHEETS
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PROJECT NUMBER: T25160010A	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING

Station	Cut Area (s.f.)	Cut Volume (c.y.)	Fill Area (s.f.)	Fill Volume (c.y.)	Cum. Cut Volume (c.y.)	Cum. Fill Volume (c.y.)	Cum. Net Volume (c.y.)
9+50.000	40.25	0.00	3.12	0.00	0.00	0.00	0.00
9+75.790	50.65	43.41	2.49	2.68	43.41	2.68	40.73
10+00.000	58.14	48.77	2.08	2.05	92.19	4.73	87.46
10+13.640	117.35	44.33	1.85	0.99	136.51	5.72	130.79
10+50.000	45.74	109.81	6.81	5.83	246.33	11.55	234.78
10+87.960	83.70	90.99	0.00	4.79	337.32	16.34	320.98
10+88.200	83.67	0.74	0.00	0.00	338.06	16.34	321.73
11+00.000	16.49	21.89	10.57	2.31	359.95	18.65	341.30
11+48.730	49.39	59.45	0.00	9.54	419.40	28.19	391.21
11+50.000	50.11	2.34	0.00	0.00	421.74	28.19	393.55
11+52.620	48.36	4.78	0.00	0.00	426.52	28.19	398.33
11+65.910	63.81	27.61	1.28	0.32	454.13	28.50	425.62
11+72.250	87.37	17.75	0.97	0.26	471.88	28.77	443.11
12+00.000	38.52	64.69	0.70	0.86	536.57	29.62	506.94
12+18.020	59.97	32.87	0.74	0.48	569.44	30.11	539.33
12+50.000	22.79	49.01	8.87	5.69	618.45	35.80	582.65
12+60.000	21.83	8.26	8.70	3.25	626.71	39.05	587.66
12+80.370	27.19	18.49	8.00	6.30	645.20	45.35	599.85
13+00.000	18.94	16.77	12.63	7.50	661.97	52.85	609.12
13+30.980	57.39	43.79	6.33	10.88	705.76	63.73	642.04
13+50.000	18.91	26.87	7.70	4.94	732.64	68.67	663.97
13+55.750	18.97	4.03	7.17	1.58	736.67	70.25	666.42
13+66.700	20.82	22.81	7.83	8.60	759.48	78.85	680.63
14+00.000	24.09	11.06	6.11	3.43	770.54	82.28	688.25
14+05.170	26.43	4.84	5.95	1.15	775.37	83.44	691.94
14+40.270	26.83	34.62	0.65	4.29	809.99	87.73	722.27
14+48.890	51.87	12.56	13.97	2.33	822.56	90.06	732.49
14+50.000	55.15	2.20	15.61	0.61	824.76	90.67	734.09
14+55.170	24.08	7.59	10.62	2.51	832.34	93.18	739.16
14+92.110	27.77	35.47	6.15	11.47	867.81	104.65	763.16
15+00.000	32.38	8.79	7.09	1.93	876.60	106.59	770.01
15+17.780	26.62	19.43	7.56	4.82	896.02	111.41	784.61
15+25.000	26.57	7.11	6.46	1.87	903.14	113.28	789.85
15+50.000	24.13	23.47	7.31	6.37	926.61	119.66	806.95
16+00.000	22.60	43.26	8.62	14.75	969.87	134.40	835.47
16+50.000	21.10	40.46	7.09	14.55	1010.33	148.95	861.38
16+61.380	22.24	9.13	6.62	2.89	1019.46	151.84	867.62
16+64.444	48.27	4.00	6.73	0.76	1023.46	152.59	870.86
16+92.860	21.30	36.61	9.80	8.70	1060.07	161.29	898.78
17+00.000	22.28	5.76	6.62	2.17	1065.83	163.46	902.37
17+50.000	38.04	55.85	6.75	12.38	1121.68	175.84	945.84
18+00.000	38.84	71.18	6.67	12.43	1192.86	188.27	1004.59
18+50.000	77.26	107.50	6.73	12.40	1300.36	200.67	1099.69
18+80.000	110.18	104.13	6.67	7.44	1404.48	208.11	1196.37
19+16.652	0.00	74.78	0.00	4.53	1479.26	212.64	1266.63

* NOTE NET VOLUME ON THIS CHART DOES NOT INCLUDE A SHRINKAGE FACTOR



SCALE  
 1"=5' VERTICAL  
 1"=10' HORIZONTAL

LEGEND  
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 ENGINEERS ♦ SURVEYORS ♦ PLANNERS

**TWM**

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PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

SEAL

Signature: _____  
 Signature Date: _____  
 Expiration Date: _____

**STATEMENT OF RESPONSIBILITY**  
 I hereby confirm that the document herein to be authenticated by my seal is restricted to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be utilized for any other part of the architectural, engineering or survey project.

**TITLE:** SHILOH STATION RD. PHASE 6 AND 7 CROSS SECTIONS  
**PROJECT:** SHILOH STATION ROAD RECONSTRUCTION - PHASE 6 AND 7 VILLAGE OF SHILOH ST. CLAIR COUNTY, ILLINOIS

16-00011-06-PV/17-00011-07-PV

REV	DATE	DESCRIPTION

DRAWN BY: LEM  
 DESIGNED BY: NTS  
 CHECKED BY: NTS  
 APPROVED BY: NTS

PROJECT NUMBER: T25160010A

SHEET  
**47**  
 OF 47 SHEETS

SHILOH STATION ROAD PHASE 6 & 7

ISSUED FOR REVIEW     ISSUED FOR BIDDING  
 ISSUED FOR CONSTR.     RECORD DRAWING