

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	1

* 02-00175-00-PV

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PROPOSED
 HIGHWAY PLANS**

ROUTE FAU 7398
SECTION 02-00175-00-PV
PROJECT TURPIN ROAD CONNECTOR (CH 31)
MACON COUNTY
 PROJECT NO. M-5169(33) JOB NO. C-95-326-04

SCALES
 PLAN 1" = 20'
 PROFILE HORIZ. 1" = 20'
 PROFILE VERT. 1" = 5'
 CROSS SECTIONS 1" = 5' (HORIZ) 1" = 2' (VERT)

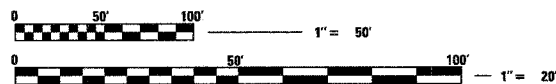
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LOCATION OF SECTION INDICATED THUS: - [Black Box]

DESIGN DESIGNATION (CH 31)



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.

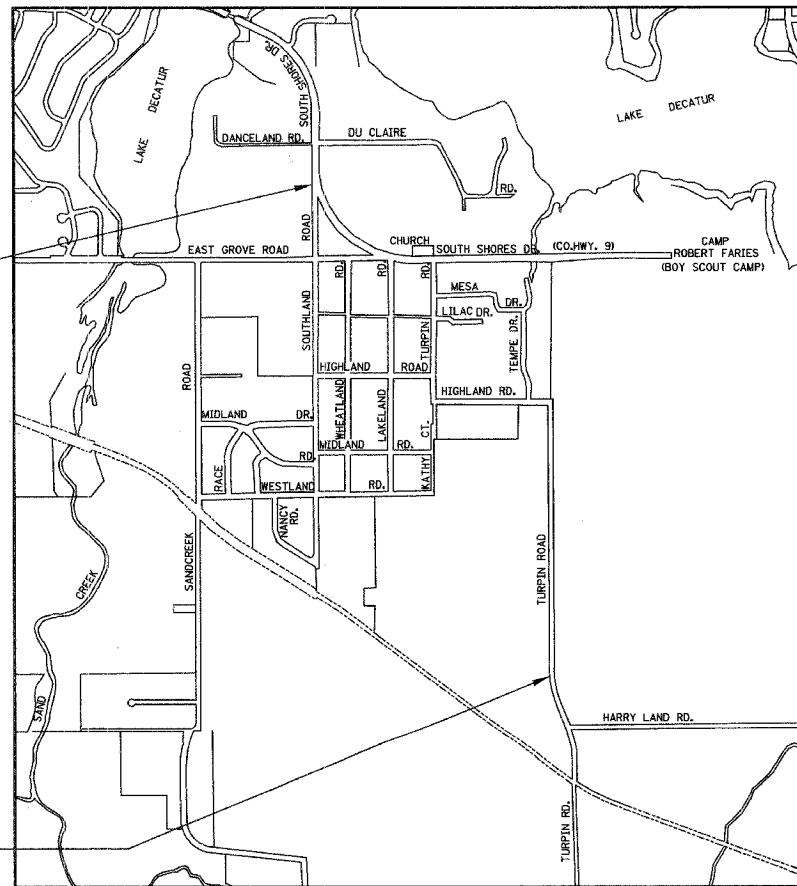
J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123

CONTRACT NO. 91325

HLC PROJ. 4805 Turpin Road Connector

PROPOSED SECTION 02-00175-00-PV ENDS STATION 584 + 25.00

PROPOSED SECTION 02-00175-00-PV BEGIN STATION 509 + 69.52



GROSS LENGTH = 7455.48 FEET
 NET LENGTH = 1.4 MILES



STATE OF ILLINOIS
 CHRISTOPHER R. ROBER
 REGISTERED PROFESSIONAL ENGINEER
 52909
 4/1/05
 Expires: 11/30/05

HOMER L. CHASTAIN & ASSOCIATES, LLP
 CONSULTING ENGINEERS
 DECATUR (217) 422-8544
 CHICAGO (773) 714-0050
 184-001397

APPROVED APRIL 7 20 05
 COUNTY ENGINEER

APPROVED 4/18 20 06
 DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

APPROVED APRIL 19 20 05
 REGIONAL ENGINEER

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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 OF THE STATE OF ILLINOIS**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	2
FED/ROAD DIST. NO.		ILLINOIS	PROJECT	
* 02-00175-00-PV				

STANDARDS LIST

HIGHWAY STANDARDS

000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
542301	PRECAST REINFORCED CONCRETE FLARED END SECTION
602301	INLET, TYPE A
602401	MANHOLE, TYPE A
602601	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701	CAST IRON STEPS
604001-02	FRAME AND LIDS, TYPE 1
604006-02	FRAME AND GRATE, TYPE 3
606001-02	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
666001	RIGHT OF WAY MARKERS
701501-03	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
702001-05	TRAFFIC CONTROL DEVICES
780001-01	TYPICAL PAVEMENT MARKINGS
B.L.R. 22-4	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

GENERAL NOTES

- THE ENGINEER SHALL NOT GUARANTEE THE WORK OF ANY CONTRACTOR OR SUBCONTRACTOR, SHALL HAVE NO AUTHORITY TO STOP WORK, SHALL HAVE NO SUPERVISION OR CONTROL AS TO THE WORK OR PERSONS DOING THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE OR HAVE ANY CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORTS, FORMS OR OTHER WORK AIDS, AND SHALL HAVE NO DUTIES OR RESPONSIBILITIES IMPOSED BY ACTS GOVERNING THE WORKPLACE. IN ADDITION, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL BE MODIFIED AS FOLLOWS:

UNDER ARTICLE 105.01, ADD THE FOLLOWING SENTENCE: NOTHING CONTAINED HEREIN SHALL RELIEVE THE CONTRACTOR OF HIS/HER DUTY TO OBSERVE AND COMPLY WITH ALL APPLICABLE LAWS, NOR SHALL THE ENGINEER BE RESPONSIBLE FOR THE CONTRACTOR'S COMPLIANCE OR NON-COMPLIANCE WITH SUCH LAWS.

UNDER ARTICLE 107.1, ADD THE FOLLOWING SENTENCE: THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S DUTY TO OBSERVE AND COMPLY WITH THE PROVISIONS OF THIS SECTION, OR FOR THE CONTRACTOR'S FAILURE TO DO SO.
- THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS INCLUDES SAFETY OF ALL PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COUNTY AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- ALL ELEVATIONS ARE BASED ON U.S.G.S. MEAN SEA-LEVEL DATUM. THE PROPOSED GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND STATION CROSS SECTIONS ARE THE ELEVATIONS FOR THE FINISHED SURFACE AT LOCATIONS AS INDICATED.
- THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES WERE OBTAINED FROM RECORDS AND FIELD SURVEYS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO EXCAVATION FOR THE NEW WORK.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 1-800-892-0123 FOR FIELD LOCATIONS FOR BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED). THE VILLAGE OF LONG CREEK SHALL BE CONTACTED FOR FIELD LOCATIONS OF WATER MAIN. THE CITY OF DECATUR SHALL BE CONTACTED FOR FIELD LOCATIONS OF WATER MAIN AND SANITARY SEWER.
- 10' TRANSITION SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OF WORK TO EXISTING CURBS AND GUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE COST OF TRANSITIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON COUNTY, CITY OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION.
- ALL TRENCHES BELOW AND WITHIN 2' OF ALL PROPOSED PAVED SURFACES SHALL BE BACK FILLED WITH TRENCH BACKFILL IN ACCORDANCE WITH THE SPECIFICATIONS.
- THE HIGHWAY STANDARDS WITH THE REVISION NUMBERS SHOWN IN THE STANDARDS LIST SHALL APPLY TO THIS CONTRACT.
- PAYMENT FOR OVERHAUL WILL NOT BE MADE FOR EARTH MOVED TO OR FROM ANY SOURCE.
- WHERE PERMANENT SURVEY MARKERS OR MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MARKERS OR MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

- THE END AREAS SHOWN ON THE STATION CROSS SECTIONS ONLY REFLECT THE EARTH EXCAVATION AND EMBANKMENT ITEMS. THE PLAN QUANTITY FOR EARTHWORK DOES NOT INCLUDE THE VOLUME OF MATERIAL REMOVED AND PAID FOR AS PAVEMENT REMOVAL.
- DIMENSIONS FOR RADII SHOWN ON PLAN SHEETS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- ALL PAVEMENT ELEVATIONS SHOWN ARE AT EDGE OF PAVEMENT UNLESS OTHERWISE INDICATED.
- THE ABBREVIATION SSRB SHALL REFER TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2002.
- STORM SEWER BREAK-IN AND TIE-IN CONNECTIONS SHALL BE SEALED WITH NON-SHRINK GROUT. THE COST OF THE BREAK-IN AND TIE-IN CONNECTIONS SHALL BE INCLUDED WITH THE PRICE OF STORM SEWER PIPE.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES SPECIFIED IN THE SPECIAL PROVISIONS AND THE PLANS DURING THE COURSE OF THE PROJECT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE THICKNESS AND TYPE OF ALL EXISTING PAVEMENT TO BE REMOVED PRIOR TO SUBMITTING A BID ON THIS CONTRACT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR VARIATIONS IN EXISTING PAVEMENT THICKNESSES OR TYPES SHOWN IN THE PLANS.
- ALL EXISTING PROPERTY PINS SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. ANY PROPERTY PIN THAT IS DAMAGED SHALL BE RESET AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL SAW CUT ALL EXISTING PAVED SURFACES FULL DEPTH PRIOR TO REMOVAL.
- THE FOLLOWING RATES WERE USED IN CALCULATING QUANTITIES FOR THIS PROJECT:

BITUMINOUS MATERIALS PRIME COAT: 0.1 GAL/SQ YD
BITUMINOUS CONCRETE SURFACE COURSE: 112 LB/INCH THICKNESS/SQ YD
BITUMINOUS CONCRETE BINDER COURSE: 112 LB/INCH THICKNESS/SQ YD
- DRAINAGE STRUCTURE ELEVATIONS ARE GIVEN TO THE TOP OF MASONRY (T.O.M.)
- ALL TYPE 3 FRAME & GRATES SHALL HAVE AN "OPEN" CURB BOX. THE CURB BOX SHALL BE STAMPED WITH "DUMP NO WASTE DRAINS TO RIVER" OR "DUMP NO WASTE DRAINS TO WATERWAY."
- THE CONTRACTOR SHALL VERIFY THE SOURCE OF ALL SEWER TIE-IN LOCATIONS AS INDICATED ON THE PLAN BY MEANS OF DYE TESTING AND/OR SMOKE TESTING SEWER LINES. THE CONTRACTOR SHALL ONLY TIE IN NON-SANITARY WATER (IE. FLOW FROM SUMP PUMPS, GUTTERS OR OTHER SURFACE WATER DRAINS). THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER OF ALL SANITARY WASTE DISCHARGES TO THE EXISTING DITCHES. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT COST PER FOOT FOR STORM SEWER.
- THE CONTRACTOR SHALL PERFORM AN EXISTING SIGN INVENTORY RECORDING THE STATION AND OFF-SET FOR ALL EXISTING SIGNS PRIOR TO REMOVING AND STORING EXISTING SIGNS. THE INVENTORY WILL DETERMINE PLACEMENT OF SIGNS FOR FINAL LOCATIONS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT COST PER LUMP SUM FOR THE VARIOUS TRAFFIC CONTROL PAY ITEMS.
- THE CONTRACTOR SHALL REMOVE AND TEMPORARILY RELOCATE ALL MAILBOXES WITHIN THE LIMITS OF CONSTRUCTION IN ACCORDANCE WITH ARTICLE 107.20 OF THE SSRB.
- STATION AND OFFSET LOCATIONS OF FLARED END SECTIONS ARE CALLED OUT TO THE FLARED END.

MIXTURE REQUIREMENTS

LOCATION	CH 31	CH 31
MIXTURE USE	BINDER	SURFACE & INCIDENTAL
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	25	15
DESIGN AIR VOIDS	4.0% @ Ndes=50	4.0% @ Ndes=50
MIX COMP (GRADATION)	IL 19.0	IL 9.5
FRICTION AGGREGATE	NA	MIX C

STANDARDS LIST, GENERAL NOTES AND COMMITMENTS		
REVISIONS	TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	DRAWN BY DATE LBM 05/03
No. DATE INITIALS		CHECKED BY DATE GLF 03/05
1		BOOK NUMBER 471
2		PROJECT No. 4805
3		SHEET No.
4		
5		
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HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-00187

DECATUR
(317) 422-8544

CHICAGO
(773) 714-0050

SUMMARY OF QUANTITIES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	3
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

* 02-00175-00-PV

CODE NUMBER	ITEM	UNIT	80% FED 20% LOCAL 1000 QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	332
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	458
20101000	TEMPORARY FENCE	FOOT	656
20200100	EARTH EXCAVATION	CU YD	8,490
20800150	TRENCH BACKFILL	CU YD	1,076
25000100	SEEDING, CLASS 1	ACRE	3
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	270
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	270
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	270
25100105	MULCH, METHOD 1	ACRE	3
28000400	PERIMETER EROSION BARRIER	FOOT	13,408
28000500	INLET AND PIPE PROTECTION	EACH	7
30200600	PROCESSING LIME MODIFIED SOILS 12"	SQ YD	22,396
Xx006230	WATER	UNIT	145
Xx006231	LIME	TON	604
35101400	AGGREGATE BASE COURSE, TYPE B	TON	24
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	348
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,922
40600300	AGGREGATE (PRIME COAT)	TON	40
40800040	INCIDENTAL BITUMINOUS SURFACING	TON	189
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	1,608
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	2,187
44000100	PAVEMENT REMOVAL	SQ YD	1,278
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,116
48101200	AGGREGATE SHOULDERS, TYPE B	TON	764
50105200	REMOVE EXISTING CULVERTS	EACH	46
54200217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	226
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	5
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	1,414
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	222
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	6
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	1,727
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	862
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	51
55034300	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 30, RISE 19	FOOT	34

* SEE SPECIAL PROVISIONS

REVISIONS			SUMMARY OF QUANTITIES		DRAWN BY DATE	
No.	DATE	INITIALS	TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		LMW	05/03
1					CHECKED BY DATE	
2					GLF	03/05
3					BOOK NUMBER	471
4					PROJECT No.	4805
5					SHEET No.	
6						
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8						
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HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-00197

DECATUR
217-422-8544
CHICAGO
773-714-0050

SUMMARY OF QUANTITIES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	4
FEDERAL DETAIL		ILLINOIS	PROJECT	

* 02-00175-00-PV

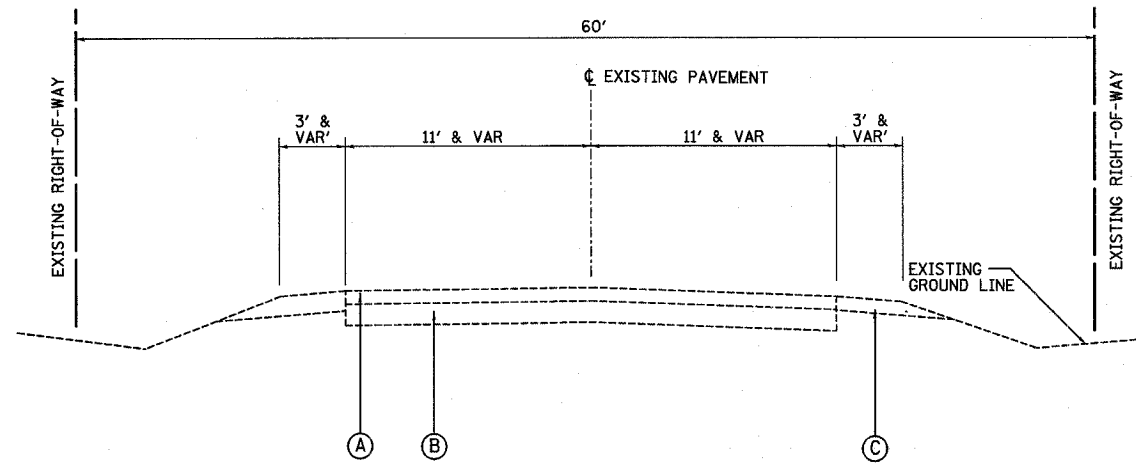
CODE NUMBER	ITEM	UNIT	80% FED 20% LOCAL 1000 QUANTITY
60218400	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	25
60218500	MANHOLES, TYPE A, 4' -DIAMETER, TYPE 3 FRAME AND GRATE	EACH	3
60220230	MANHOLES, TYPE A, 4' DIAMETER, WITH SPECIAL FRAME AND GRATE	EACH	2
60221200	MANHOLES, TYPE A, 5' -DIAMETER, TYPE 3 FRAME AND GRATE	EACH	4
60235300	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	EACH	1
60235700	INLETS, TYPE A, TYPE 3 FRAME & GRATE	EACH	44
60237420	INLETS, TYPE A, TYPE 20 FRAME & GRATE	EACH	1
60238710	INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE	EACH	3
60255500	MANHOLES TO BE ADJUSTED	EACH	2
60266600	VALVE BOXES TO BE ADJUSTED	EACH	13
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	24.5
60602400	CONCRETE GUTTER (SPECIAL)	FOOT	223
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	8,250
60607400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.24	FOOT	180
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	39
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7
67100100	MOBILIZATION	L SUM	1
70101860	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22 (SPECIAL)	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	1,072
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	12,810
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	358
72000100	SIGN PANEL - TYPE 1	SQ FT	133
72900100	METAL POST - TYPE A	FOOT	276
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	12,810
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	158
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	111
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	92
X0323144	MODULAR SEGMENTAL BLOCK RETAINING WALL	SQ FT	845
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	2,133
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50	TON	8,614

• SEE SPECIAL PROVISIONS

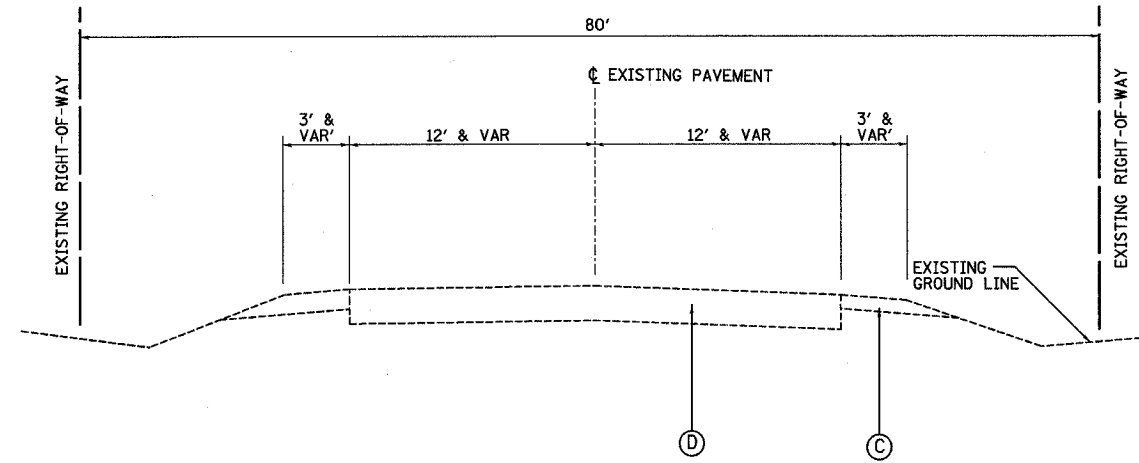
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4			PROJECT No. 4805		
5			SHEET No.		
6			HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-00197		
7			DECATUR 617-422-8544		
8			CHICAGO 773-714-0050		
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	5
FED. ROAD DIST. NO.	LINE	PROJECT		

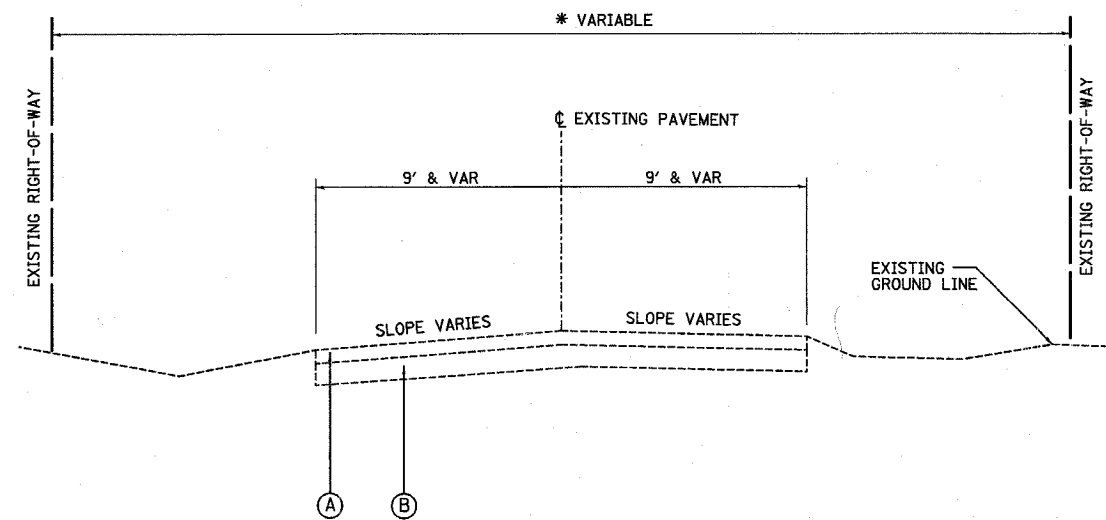
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EXISTING TYPICAL SECTION - MAINLINE
STA 509+69.52 TO STA 522+00

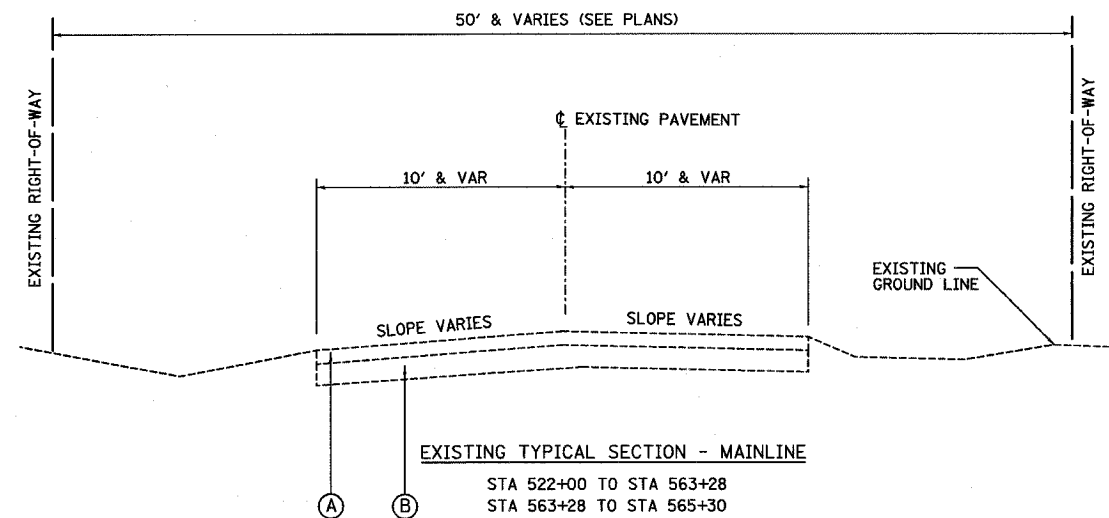


EXISTING TYPICAL SECTION - MAINLINE
STA 565+30 TO STA 569+00



EXISTING TYPICAL SECTION - SIDEROADS

STA TO STA	*ROW
TEMPE DRIVE	60'
KATHY COURT	60'
HIGHLAND ROAD	60'
LILAC DRIVE	50'
MESA DRIVE	50'
SOUTH SHORES DRIVE	50'



EXISTING TYPICAL SECTION - MAINLINE
STA 522+00 TO STA 563+28
STA 563+28 TO STA 565+30

LEGEND

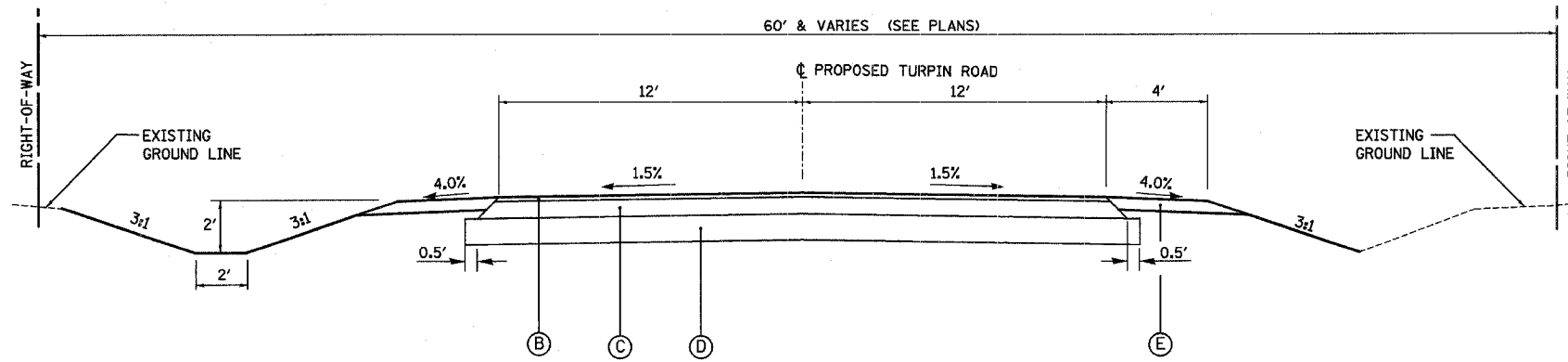
- (A) EXISTING OIL AND CHIP SURFACE
- (B) 4"-6" AGGREGATE BASE
- (C) AGGREGATE SHOULDER
- (D) 10" BITUMINOUS PAVEMENT

EXISTING TYPICAL SECTIONS

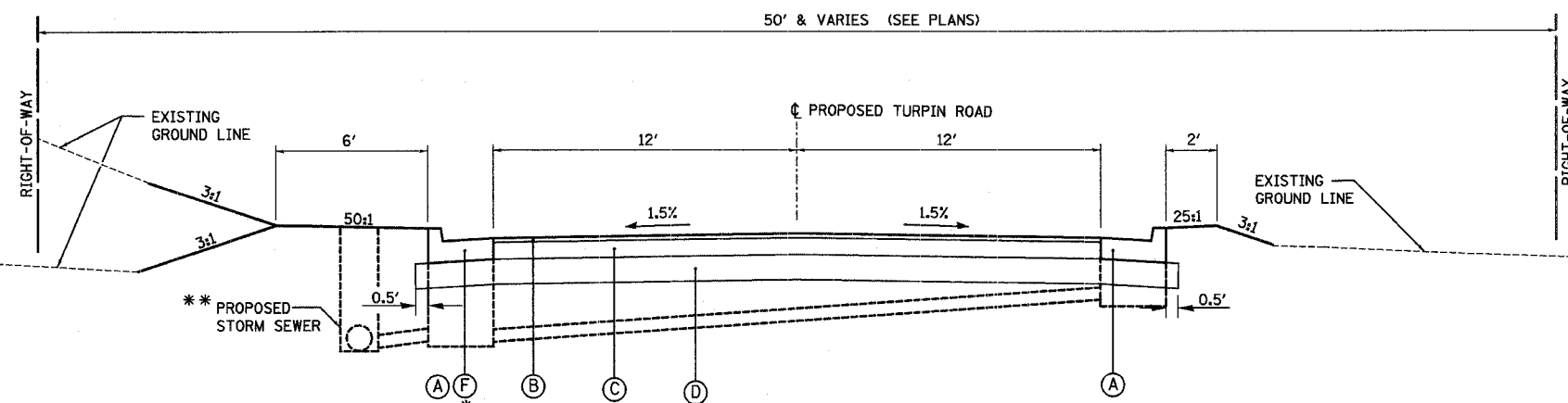
REVISIONS NO. DATE INITIALS		DRAWN BY DATE LBM 05/03	
TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		CHECKED BY DATE GLF 03/05	
HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-001277		BOOK NUMBER 471	
DECATUR 617-422-8544		PROJECT NO. 4805	
CHICAGO 673-714-0050		SHEET NO.	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	6
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

* 02-00175-00-PV

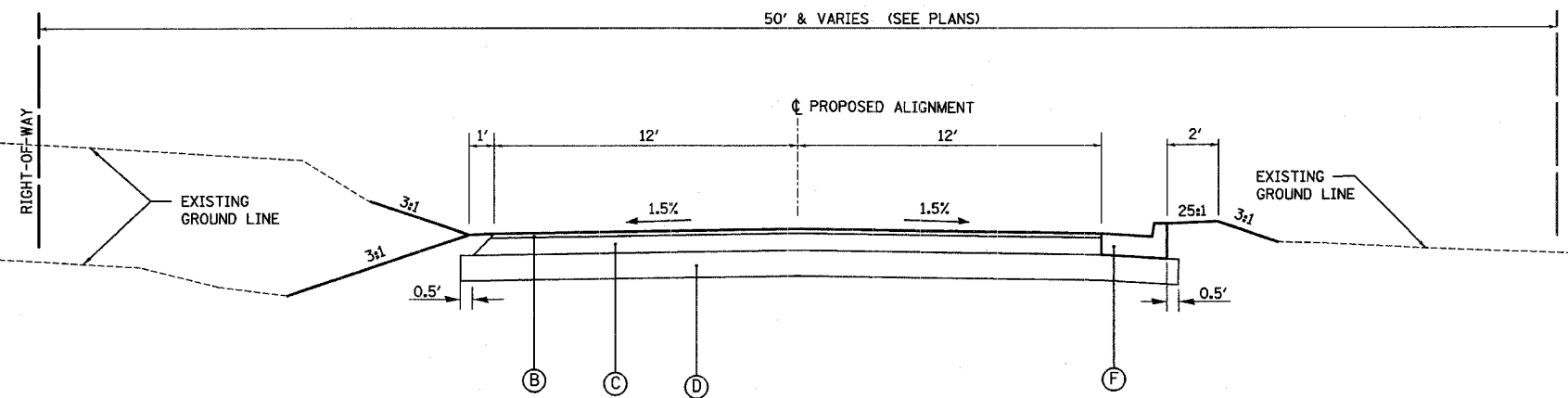


PROPOSED TYPICAL SECTION - MAINLINE
STA 509+69.52 TO STA 533+00



PROPOSED TYPICAL SECTION - MAINLINE
STA 533+00 TO STA 535+73
STA 539+35 TO STA 548+40
STA 552+03 TO STA 562+82
* STA 549+23.5 TO 549+70.8 LT

**SEE ROADWAY PLANS FOR LOCATION



PROPOSED TYPICAL SECTION - SIDEROADS
STA 38+50 TO 39+97.6 RT KATHY COURT

LEGEND

- (A) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (B) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, 2" 112 LBS/INCH/SQ YD
- (C) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL 19.0, N50, 8" 112 LBS/INCH/SQ YD
- (D) PROCESSED LIME MODIFIED SOIL, 12"
- (E) AGGREGATE SHOULDERS, TYPE B, 6"
- (F) COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.24

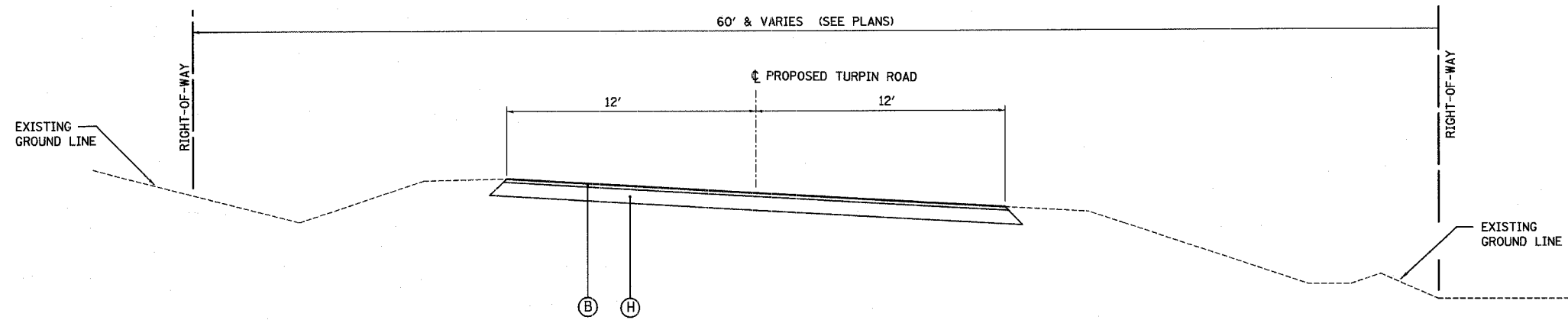
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HOMER L.
CHASTAIN
& ASSOCIATES, LLP
CONSULTING ENGINEERS
144-00177

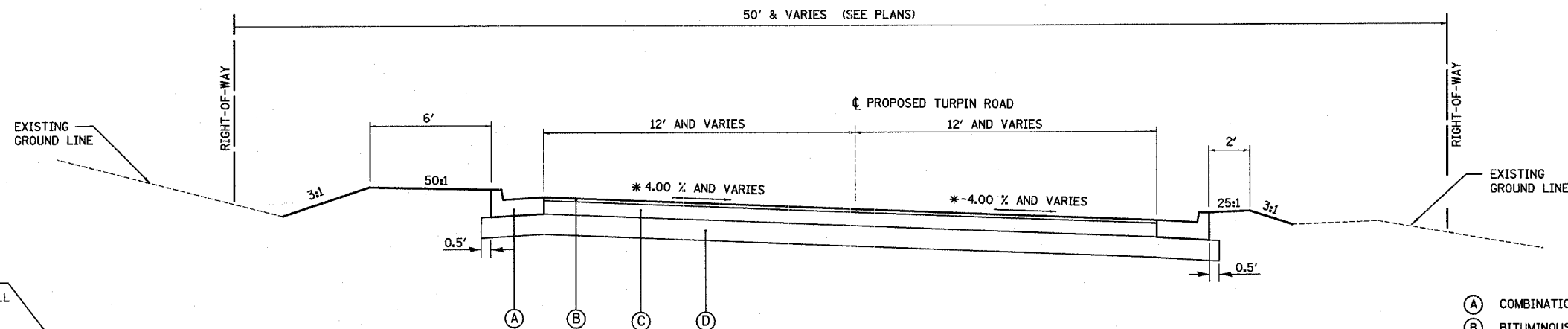
DECATUR
317-422-8544
CHICAGO
773-714-0050

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	7
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

* 02-00175-00-PV



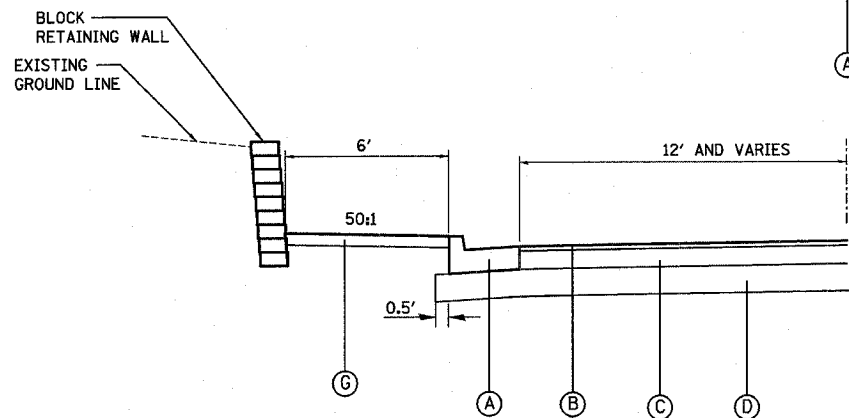
PROPOSED TYPICAL SECTION - MAINLINE
STA 569+00 TO STA 569+20 (CURVE TO RIGHT)



PROPOSED TYPICAL SECTION - MAINLINE
STA 535+73 TO STA 536+50 (CURVE TO LEFT)
STA 548+40 TO STA 552+03 (CURVE TO RIGHT)
STA 562+82 TO STA 566+99.3 (CURVE TO LEFT)
STA 566+99.3 TO STA 569+00 (CURVE TO RIGHT)

LEGEND

- (A) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24
- (B) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50, 2" 112 LBS/INCH/SQ YD
- (C) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL 19.0, N50, 8" 112 LBS/INCH/SQ YD
- (D) PROCESSED LIME MODIFIED SOIL, 12"
- (E) AGGREGATE SHOULDERS, TYPE B, 6"
- (F) COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.24
- (G) PCC SIDEWALK, 5"
- (H) AGGREGATE BASE COURSE TYPE B, 8"



PROPOSED TYPICAL SECTION - SIDEWALK
STA 536+50 TO STA 540+50 (CURVE TO LEFT)

* SEE "SUPERELEVATION TRANSITION DETAILS" SHEET FOR SUPERELEVATION DATA

REVISIONS			TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY DATE
NO.	DATE	INITIALS			LBM 05/03
1					CHECKED BY DATE GLF 03/05
2					BOOK NUMBER 471
3					PROJECT No. 4805
4					SHEET No.
5					
6					
7					
8					
9					
10					

HOMER L.
CHASTAIN
& ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001297

DECATUR
(317) 422-8544
CHICAGO
(773) 714-0050

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	8
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

* 02-00175-00-PV

TREE REMOVAL (6 TO 15 UNITS DIA)

STATION	OFFSET	UNITS
528+97.3	25.6 RT	15
528+97.3	25.6 RT	15
528+82.2	25.1 RT	6
528+82.2	25.1 RT	6
527+32.7	18.2 RT	6
532+37.6	33.3 LT	8
532+41.9	26.8 LT	6
532+44.8	29.2 LT	6
532+43.4	32.0 LT	6
532+43.4	32.0 LT	6
532+43.4	32.0 LT	6
532+44.6	36.4 LT	6
532+49.8	34.5 LT	6
532+50.0	28.4 LT	6
532+58.2	31.5 LT	6
532+98.6	23.9 LT	6
533+61.0	27.7 LT	6
534+42.6	28.0 LT	6
534+47.3	26.8 LT	10
533+96.7	22.2 LT	6
533+83.0	24.6 LT	8
536+79.3	28.9 LT	6
536+79.3	28.9 LT	6
537+32.9	8.8 LT	12
537+68.9	2.6 LT	12
538+20.6	21.7 LT	6
536+83.1	35.7 LT	6
536+58.3	30.9 LT	6
536+43.8	27.1 LT	6
536+35.5	30.1 LT	6
535+76.4	31.2 LT	6
540+77.0	18.2 LT	10
540+69.0	18.6 LT	8
540+62.0	18.6 LT	10
540+59.6	26.4 LT	8
540+52.4	19.2 LT	6
540+47.0	19.2 LT	6
540+40.9	24.4 LT	6
540+31.2	18.5 LT	6
540+25.6	21.1 LT	6
540+23.7	18.5 LT	6
540+21.9	18.4 LT	6
547+08.1	16.9 RT	10
552+45.9	33.2 LT	6
564+88.9	112.4 RT	6
565+32.0	132.7 RT	8
TOTAL		332

TREE REMOVAL (OVER 15 UNITS DIA)

STATION	OFFSET	UNITS
531+25.8	32.9 LT	24
537+03.0	24.5 LT	24
537+59.1	9.5 LT	36
537+58.3	5.4 RT	30
537+60.9	12.4 LT	24
552+99.8	26.2 LT	26
562+50.6	27.8 LT	54
562+25.1	26.3 LT	54
563+41.1	23.0 RT	34
565+95.3	22.4 LT	20
565+22.1	40.5 RT	30
564+92.2	12.2 RT	48
564+21.9	18.1 LT	18
565+48.3	104.6 RT	36
TOTAL		458

SEEDING

LOCATION	SEEDING CLASS 1 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH METHOD 1 (ACRE)
TURPIN ROAD	3.0	270	270	270	3
PROJECT TOTAL	3.0	270	270	270	3

EARTHWORK

1 LOCATION	2 EARTH EXCAVATION (CU YD)	3 EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (COL 2 * 0.75)	4 EMBANKMENT	5 EARTHWORK BALANCE WASTE (+) OR FURNISHED EXCAVATION (-) (COL 3-COL 4)
STAGE 1				
TURPIN ROAD	5,625	4,219	2,048	2,171
HIGHLAND ROAD	330	248	4	244
LILAC DRIVE	70	53	10	43
MESA DRIVE	89	67	22	45
SUBTOTAL STAGE 1	6,114	4,587	2,084	2,503
STAGE 2				
TURPIN ROAD	1,987	1,491	658	833
TEMPE DRIVE	47	35	129	-94
KATHY COURT	274	205	65	140
SOUTH SHORES DRIVE	68	51	390	-339
SUBTOTAL STAGE 2	2,376	1,782	1,242	540
PROJECT TOTAL	8,490	6,369	3,326	3,043

EARTH EXCAVATION SHRINKAGE FACTOR = 25%

ITEMS MARKED WITH AN ASTERISK(*) ARE FOR INFORMATIONAL PURPOSES ONLY.

PROCESSING LIME MODIFIED SOILS

LOCATION	STATION TO STATION	PROCESSING LIME MODIFIED SOILS 12" SQ YD	WATER UNIT	LIME TON
TEMPE DRIVE	20+11.13 TO 21+75.00	523	3	14
KATHY COURT	37+95.00 TO 39+93.45	672	4	18
HIGHLAND ROAD	43+50.00 TO 44+89.07	456	3	12
LILAC DRIVE	50+12.00 TO 50+75.00	234	2	6
MESA DRIVE	60+11.79 TO 60+92.35	308	2	8
SOUTH SHORES DR	70+01.42 TO 72+51.00	982	6	27
TURPIN ROAD	509+69.52 TO 569+00.0	19221	125	519
PROJECT TOTAL		22,396	145	604

SCHEDULE OF QUANTITIES

REVISIONS NO. DATE INITIALS 1 2 3 4 5 6 7 8 9 10		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	DRAWN BY: LBM DATE: 05/03 CHECKED BY: GLF DATE: 03/05 BOOK NUMBER: 471 PROJECT NO.: 4805 SHEET NO.:
HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 104-001397		DECATUR (317) 422-8544 CHICAGO (773) 714-0050	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	9
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

* 02-00175-00-PV

PERIMETER EROSION BARRIER

LEFT				RIGHT			
STATION	TO	STATION	FEET	STATION	TO	STATION	FEET
TURPIN							
509+69.00	TO	550+00	4,031	509+69.00	TO	539+50	2,981
550+50	TO	552+50	200	540+00	TO	559+00	1,900
553+00	TO	569+20	1,620	559+50	TO	561+50	200
				56200	TO	565+00	300
				565+50	TO	571+20	570
TEMPE DRIVE							
20+25	TO	21+75	150	20+25	TO	21+75	150
KATHY COURT							
37+95	TO	39+75	180	37+95	TO	39+75	180
HIGHLAND ROAD							
43+50	TO	44+75	125	43+50	TO	44+75	125
LILAC DRIVE							
50+25	TO	50+75	50	50+25	TO	50+75	50
MESA DRIVE							
60+25	TO	60+92	67	60+25	TO	60+92	67
SOUTH SHORES DRIVE							
70+20	TO	72+51	231	70+20	TO	72+51	231
SUBTOTAL PROJECT TOTAL			6,654 13,408	SUBTOTAL			6,754

PAVEMENT

LOCATION	STATION	STATION	BITUMINOUS CONCRETE SURFACE COURSE SUPERPAVE MIX "C", N50 (TON)	BITUMINOUS CONCRETE BINDER COURSE SUPERPAVE IL 19.0, N50 (TON)	AGGREGATE SHOULDER, TYPE B (TON)	AGGREGATE BASE COURSE, TYPE B (TON)	AGGREGATE SURFACE COURSE, TYPE B (TON)	BITUMINOUS MATERIALS (PRIME COAT) (GALLON)	AGGREGATE (PRIME COAT) (TON)	INCIDENTAL BITUMINOUS SURFACING (TON)
TEMPE DRIVE	20+11.13	21+75.00	50	202				45	1	
KATHY COURT	37+95.00	39+93.43	64	262				58	1	
HIGHLAND ROAD	43+50.00	44+89.07	43	175				39	1	
LILAC DRIVE	50+12.00	50+75.00	20	80				18	1	
MESA DRIVE	60+11.79	60+92.30	28	111				25	1	
SOUTH SHORES DR	70+01.42	72+51.00	93	374				83	2	
TURPIN ROAD	509+69.51	569+00.00	1,829	7,410	764			1,654	33	
TURPIN ROAD	569+00.00	569+20.00	6			24				
SCHEDULE TOTAL			2,133	8,614	764	24		1,922	40	
FROM ENTRANCES							348			189
PROJECT TOTAL			2,133	8,614	764	24	348	1,922	40	189

CURB AND GUTTER

LOCATION	COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24 FOOT	COMBINATION CONCRETE CURB AND GUTTER TYPE B-9.24 FOOT	CONCRETE GUTTER (SPECIAL) FOOT	CLASS SI CONCRETE (OUTLET) EACH
TEMPE DRIVE	110.0			8.0
KATHY COURT	240.0	180.0		1.0
HIGHLAND ROAD	175.0			1.0
LILAC DRIVE	205.0			1.0
MESA DRIVE	190.0			4.5
SOUTH SHORES DRIVE	750.0			8.0
TURPIN ROAD	6,580.0		223.0	1.0
PROJECT TOTAL	8,250.0	180.0	223.0	24.5

INLET AND PIPE PROTECTION

TURPIN STATION	EACH
LT 533+00	1
RT 533+00	1
LT 541+48	1
LT 567+00	1
KATHY COURT	
RT 38+80	1
HIGHLAND ROAD	
LT 44+18	1
RT 44+43	1
PROJECT TOTAL	7

PCC SIDEWALK, 5"

STATION	STATION	OFFSET	LENGTH FT	WIDTH FT	PORTLAND CEMENT CONCRETE SIDEWALK SQ FT
536+50.00	540+50.00	LT	364.50	6.0	2,187.0
PROJECT TOTAL					2,187.0

NOTE: LENGTH IS ALONG THE CURVE OF THE RETAINING WALL

SCHEDULE OF QUANTITIES

REVISIONS NO. DATE INITIALS 1 2 3 4 5 6 7 8 9 10		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-00187	DECATUR (217) 422-8644 CHICAGO (773) 714-0050	DRAWN BY DATE LBM 05/03 CHECKED BY DATE GLF 03/05 BOOK NUMBER 471 PROJECT NO. 4805 SHEET NO.
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	10
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

* 02-00175-00-PV

ENTRANCES

LOCATION	STATION	OFFSET	INCIDENTAL BITUMINOUS SURFACING (TON)	AGGREGATE SURFACE COURSE, TYPE B 6" (TON)	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6" (SQ YD)
TEMPE DRIVE	21+24.3	LT	15		30
KATHY COURT	38+42.6	LT		4	26
HIGHLAND ROAD	44+43.1	LT		9	26
MESA DRIVE	60+54.1	RT		4	28
MESA DRIVE	60+85.6	LT	3		39
SOUTH SHORES DR	70+54.1	LT		18	28
SOUTH SHORES DR	70+97.3	LT	17		34
SOUTH SHORES DR	71+53.0	RT		16	34
TURPIN ROAD	514+05.0	LT	4	15	
	514+06.4	RT	3	10	
	524+16.7	LT	3	13	
	527+19.5	RT	2	8	
	528+62.8	RT	11		
	534+20.2	RT	2		24
	534+67.8	RT	3		30
	535+13.7	LT		12	15
	535+56.5	RT		3	28
	537+41.4	RT	28		44
	537+63.7	RT	9		28
	538+22.7	RT		2	22
	538+70.7	RT			34
	541+97.1	RT		34	48
	542+84.1	LT		4	23
	543+00.0	RT		1	30
	543+45.2	RT		1	23
	544+64.9	RT		4	23
	544+95.5	LT			30
	545+73.9	RT		3	23
	546+73.4	LT	22		29
	546+95.4	RT		23	
	548+16.5	RT		1	23
	548+73.5	LT		23	28
	551+17.9	LT			35
	551+80.8	RT	17		27
	552+67.7	RT			39
	553+72.2	LT			46
	553+85.4	RT		12	46
	555+06.9	LT		8	29
	555+97.2	LT			37
	556+22.7	RT		3	22
	556+74.0	RT		2	23
	556+96.8	LT			83
	557+34.8	LT			104
	558+15.0	LT		3	23
	559+15.6	LT			48
	559+53.5	LT		8	23
	560+51.4	LT		4	24
	560+97.5	LT		25	16
	561+52.7	LT		29	23
	563+09.0	RT	20		34
	563+27.4	LT			50
	564+08.2	RT		16	21
	566+46.9	LT		2	36
	567+25.2	RT	15		38
	567+98.9	LT	15		31
	569+66.3	RT		28	
SCHEDULE TOTAL			189	348	1,608

SIGNING

STA	TYPE	SIGN PANEL TYPE 1 SQ FT	METAL POST TYPE A FT
527+88.00	30 MPH	5.0	13.0
540+50.00	30 MPH	5.0	13.0
547+51.00	30 MPH	5.0	13.0
531+72.00	CURVE AHEAD	6.25	
531+72.00	20 MPH	2.25	17.0
541+88.00	CURVE AHEAD	6.25	
541+88.00	20 MPH	2.25	17.0
545+24.00	CURVE AHEAD	6.25	
545+24.00	20 MPH	2.25	17.0
555+55.00	CURVE AHEAD	6.25	
555+55.00	20 MPH	2.25	17.0
560+50.00	CURVE AHEAD	6.25	
560+50.00	20 MPH	2.25	17.0
568+52.00	CURVE AHEAD	6.25	
568+52.00	20 MPH	2.25	17.0
522+72.00	SPEED ZONE	5.0	
522+72.00	30 MPH	2.25	14.0
562+00.00	30 MPH	5.0	
562+00.00	COUNTY HWY	4.0	15.0
KATHY COURT	STOP	6.25	
	ST. NAME	1.0	13.5
TEMPE DRIVE	STOP	6.25	
	ST. NAME	1.0	
	ST. NAME	1.0	14.0
HIGHLAND ROAD	STOP	6.25	
	ST. NAME	1.0	
	ST. NAME	1.0	14.0
LILAC DRIVE	STOP	6.25	
	ST. NAME	1.0	
	ST. NAME	1.0	14.0
MESA DRIVE	STOP	6.25	
	ST. NAME	1.0	
	ST. NAME	1.0	14.0
SOUTH SHORES DRIVE	STOP	6.25	
	ST. NAME	1.0	
	ST. NAME	1.0	14.0
HIGHLAND ROAD	ST. NAME	1.0	11.0
TURPIN	ST. NAME	1.0	11.0
PROJECT TOTAL		133.0	276.0

DRIVEWAY PAVEMENT REMOVAL

LOCATION	STATION	OFFSET	DRIVEWAY PAVEMENT REMOVAL SQ YD
TEMPE DRIVE	21+24.3	LT	69
MESA DRIVE	60+85.6	LT	52
SOUTH SHORES DR	70+97.3	LT	65
TURPIN ROAD	528+62.8	RT	53
	534+20.2	RT	23
	534+67.8	RT	35
	537+50.0	RT	145
	544+95.5	LT	50
	546+73.4	LT	83
	551+17.9	LT	39
	551+80.8	RT	69
	552+67.7	RT	38
	553+72.2	LT	9
	555+97.2	LT	10
	556+96.8	LT	40
	557+34.8	LT	27
	559+15.6	LT	18
	563+09.0	RT	103
	563+27.4	LT	18
	567+25.2	RT	103
	567+98.9	LT	67
PROJECT TOTAL			1,116

PAVEMENT REMOVAL

LOCATION	AREA SQ YD
TURPIN ROAD	1,278
TOTAL	1,278

MANHOLE AND VALVE BOX ADJUSTMENT

LOCATION	STATION	OFFSET	MANHOLES	EACH VALVE
KATHY COURT	39+10.4	22.3 RT		1
TURPIN ROAD	535+70.4	26.1 RT		1
	537+54.8	61.7 RT	1	
	539+65.3	38.1 RT		1
	539+75.1	2.2 RT	1	
	540+80.3	20.4 RT		1
	545+19.2	21.7 LT		1
	553+48.7	25.5 LT		1
	559+10.1	8.1 LT		1
	560+20.6	28.5 LT		1
	561+65.8	29.2 RT		1
	561+66.9	7.4 LT		1
	563+28.4	25.1 LT		1
	563+80.6	20.2 RT		1
	564+07.9	21.2 LT		1
TOTAL			2	13

SCHEDULE OF QUANTITIES

REVISIONS NO. DATE INITIALS		DRAWN BY DATE LBM 05/03	
TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		CHECKED BY DATE GLF 03/05	
		BOOK NUMBER 471	
CHICAGO (773) 714-0050		PROJECT NO. 4805	
CHICAGO (773) 714-0050		SHEET NO.	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	11
FEDERAL ROAD DIST. NO.		ILLINOIS	PROJECT	

* 02-00175-00-PV

PAVEMENT MARKING

TURPIN		THERMOPLASTIC PAVEMENT MARKING LINE - 4"	THERMOPLASTIC PAVEMENT MARKING LINE - 12"	THERMOPLASTIC PAVEMENT MARKING LINE - 24"	RAISED REFLECTIVE PAVEMENT MARKER	SHORT TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING LINE 4"	WORK ZONE PAVEMENT MARKING REMOVAL
STA	STA	FOOT	FOOT	FOOT	EACH	FOOT	FOOT	SQ FT
509+69.52	TO 536+50.0	680			35	488	680	162.7
509+69.52	TO 533+00.0	4,662					4,662	
529+00.00	TO 536+50.0	750					750	
536+50.00	TO 538+68.0	218					218	
536+50.00	TO 569+00.0	6,500			57	584	6,500	194.7
536+15.00	TO 538+68.0		79					
549+07.00	TO 551+60.0		79					
TEMPE DRIVE				16				
KATHY COURT				33				
HIGHLAND ROAD				16				
LILAC DRIVE				11				
MESA DRIVE				15				
SOUTH SHORES DRIVE				20				
PROJECT TOTAL		12,810	158	111	92	1,072	12,810	358.0

REMOVE EXISTING CULVERTS

LOCATION	STATION	OFFSET	(EACH)
TEMPE DRIVE	20+24	17 LT	1
HIGHLAND ROAD	44+43	20 LT	1
SOUTH SHORES DR	70+54	41 LT	1
	70+68	13 RT	1
	71+53	27 RT	1
TURPIN ROAD	514+05	24 LT	1
	514+04	20 RT	1
	527+20	20 RT	1
	534+20	18 RT	1
	534+68	18 RT	1
	535+14	22 LT	1
	535+57	20 RT	1
	536+03	AR	1
	541+48	AR	1
	541+97	20 RT	1
	542+84	17 LT	1
	543+00	16 RT	1
	544+95	17 LT	1
	546+73	17 LT	1
	546+95	16 RT	1
	548+17	15 RT	1
	548+74	21 LT	1
	551+18	19 LT	1
	551+50	AR	1
	551+81	17 RT	1
	552+68	18 RT	1
	552+75	18 LT	1
	553+72	18 LT	1
	555+07	17 LT	1
	555+97	17 LT	1
	556+23	17 RT	1
	556+74	15 RT	1
	556+97	17 LT	1
	557+35	17 LT	1
	558+15	17 LT	1
	559+16	18 LT	1
	559+54	18 LT	1
	560+51	17 LT	1
	560+77	AR	1
	560+98	17 LT	1
	563+27	16 LT	1
	565+69	11 RT	1
	566+47	20 LT	1
	566+67	29 RT	1
	567+99	24 LT	1
	569+66	28 RT	1
PROJECT TOTAL			46

RIGHT OF WAY MARKERS

LOCATION	STATION	OFFSET	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS EACH	LOCATION	STATION	OFFSET	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS EACH
TURPIN	513+60.00	LT	1	TURPIN	512+85.00	RT	1
	514+35.00	LT	1		513+35.00	RT	1
	516+85.00	LT	1		513+90.00	RT	2
	517+85.00	LT	1		516+35.00	RT	1
	530+35.00	LT	2		519+35.00	RT	1
	533+25.00	LT	2		525+35.00	RT	1
	536+56.40	LT	1		527+40.00	RT	1
	538+22.00	LT	1		529+00.00	RT	1
	553+05.22	LT	1		530+35.00	RT	1
	563+91.69	LT	1		532+55.00	RT	1
	566+10.05	LT	1		533+35.00	RT	1
	566+11.50	LT	1		533+85.00	RT	1
					535+75.00	RT	2
					536+41.27	RT	2
					541+00.00	RT	1
					541+72.00	RT	2
					549+50.00	RT	1
					550+00.00	RT	1
					550+50.00	RT	1
					551+00.00	RT	1
HIGHLAND ROAD	43+76.30	LT	1				
TOTAL LT			15	TOTAL RT			24
PROJECT TOTAL							39

TEMPORARY FENCE

LOCATION	STATION	TO	STATION	FEET
TURPIN LEFT	533+58.00	TO	540+82.00	656
PROJECT TOTAL				656

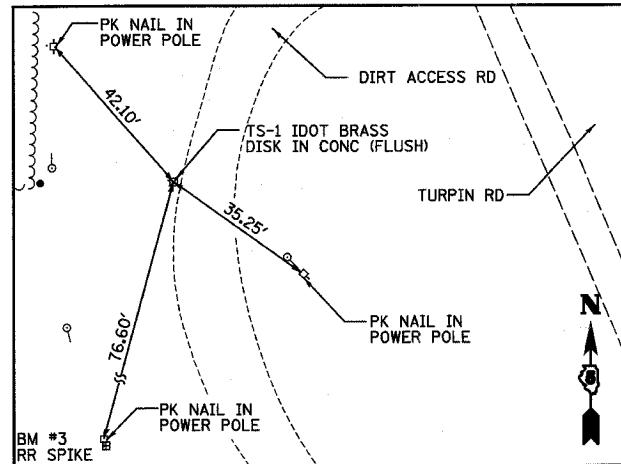
RETAINING WALL

STATION	LENGTH FT	BOTTOM ELEV	TOP ELEV	HEIGHT FT	AVE HEIGHT FT	AREA SQ FT
636+55.00		659.0	659.5	0.5		
636+75.00	20.0	659.1	661.0	1.9	1.2	24.0
637+25.00	50.0	659.5	661.0	1.5	1.7	85.0
637+50.00	25.0	659.8	663.5	3.7	2.6	65.0
638+11.00	61.0	660.3	663.5	3.2	3.5	210.5
638+40.00	29.0	660.0	663.5	3.5	3.4	97.2
638+60.00	20.0	659.9	662.8	2.9	3.2	64.0
639+75.00	115.0	657.2	659.0	1.8	2.3	270.2
640+00.00	25.0	656.5	657.0	0.5	1.1	28.7
TOTAL						845.0

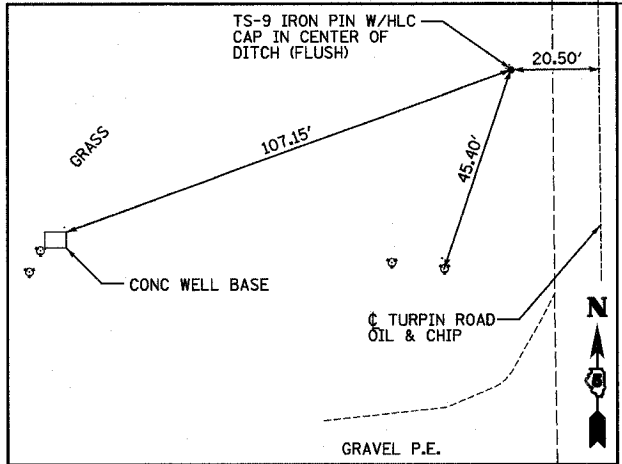
SCHEDULE OF QUANTITIES

REVISIONS NO. DATE INITIALS			TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY DATE LBM 05/03
CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-00137			DBCATUR (217) 422-8544 CHICAGO (773) 714-0050		CHECKED BY DATE GLF 03/05 BOOK NUMBER 471 PROJECT NO. 4805 SHEET NO.

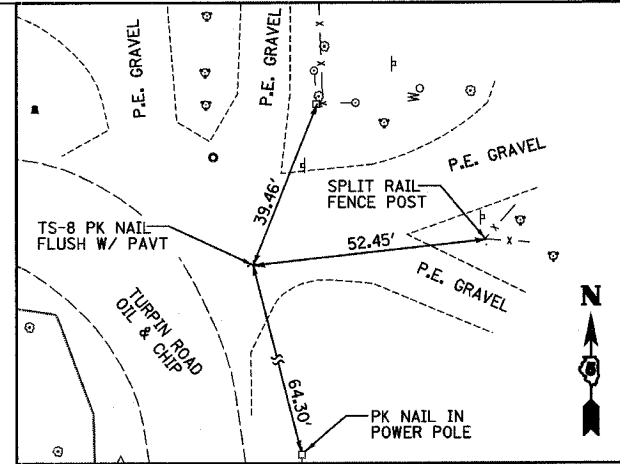
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	13
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	
* 02-00175-00-PV				



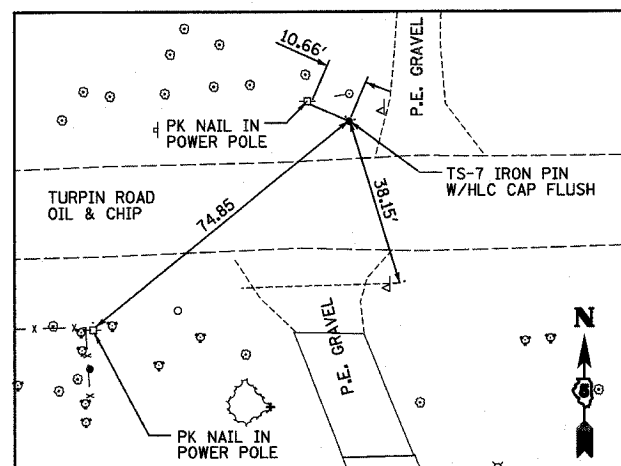
TS - 1
 STA 502+01.76
 O/S 97.71 LT
 E 19402.11
 N 138242.98



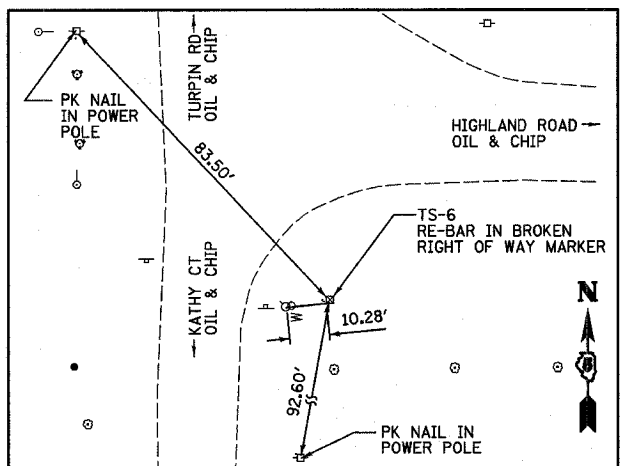
TS - 9
 STA 524+95.09
 O/S 22.79 LT
 E 19351.01
 N 140559.31



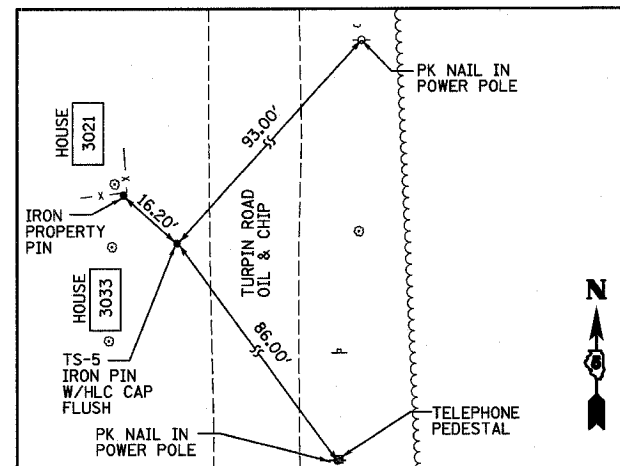
TS - 8
 STA 537+38.15
 O/S 52.01 RT
 E 19373.73
 N 141828.60



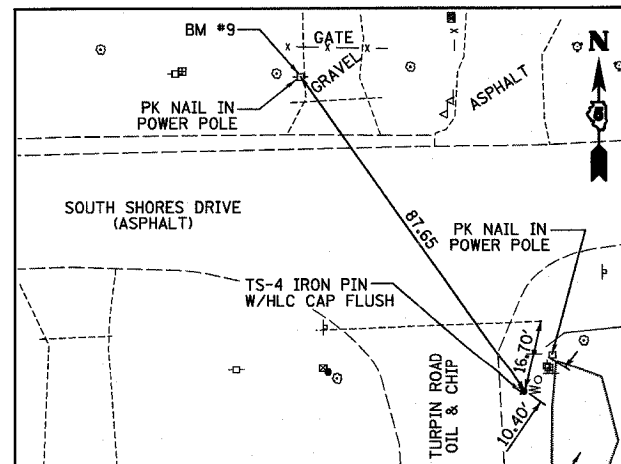
TS - 7
 STA 544+79.43
 O/S 19.91 RT
 E 18606.42
 N 141848.49



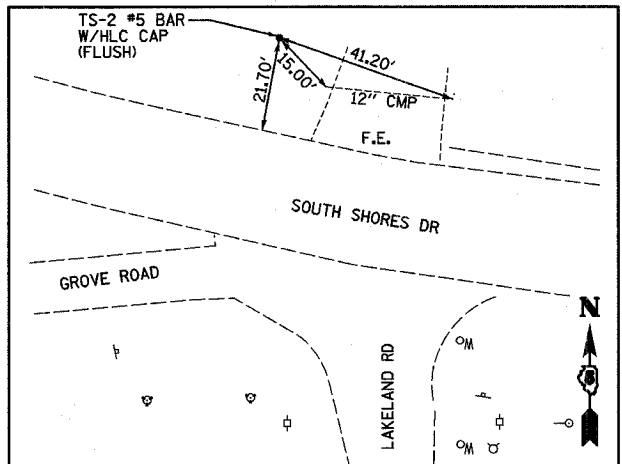
TS - 6
 STA 549+91.35
 O/S 65.63 LT
 E 18064.78
 N 141779.74



TS - 5
 STA 558+16.12
 O/S 18.13 LT
 E 18010.94
 N 142638.09

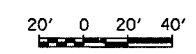


TS - 4
 STA 564+98.59
 O/S 70.62 RT
 E 18037.28
 N 143354.36



TS - 2
 STA 569+93.31
 O/S 33.48 RT
 E 17520.24
 N 143444.64

BM#	STA	O/S	ELEV	DESCRIPTION
3	501+41.48	144.34 LT	670.72	RR SPIKE IN POWER POLE W OF HARRYLAND AND TURPIN INTERSECTION
4	508+96.98	29.19 LT	666.07	RR SPIKE IN POWER POLE W SIDE OF TURPIN RD
5	529+21.91	21.74 RT	670.04	RR SPIKE IN POWER POLE EAST OF TURPIN RD NW CORNER OF PROPERTY
6	539+55.62	37.50 RT	654.71	"M" IN MUELLER ON FIRE HYDRANT NE CORNER OF TEMPE DR AND HIGHLAND RD.
7	549+96.34	72.24 LT	676.16	"M" IN MUELLER ON FIRE HYDRANT SE CORNER OF KATHY CT AND HIGHLAND RD
8	559+03.07	26.01 RT	679.07	"M" IN MUELLER ON FIRE HYDRANT SE CORNER OF LILAC DR AND TURPIN RD
9	565+60.91	87.95 RT	675.61	RR SPIKE IN POWER POLE NW CORNER OF SOUTH SHORES AND TURPIN RD.



REVISIONS		TIES AND BENCHMARKS		DRAWN BY DATE	
NO.	DATE	INITIALS	TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		EMR 8/03
1					CHECKED BY DATE GLF 03/05
2					BOOK NUMBER 471
3					PROJECT No. 4805
4					SHEET No.
5					
6					
7					
8					
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10					

**HOMER L.
CHASTAIN
& ASSOCIATES, LLP**
CONSULTING ENGINEERS
184-00197

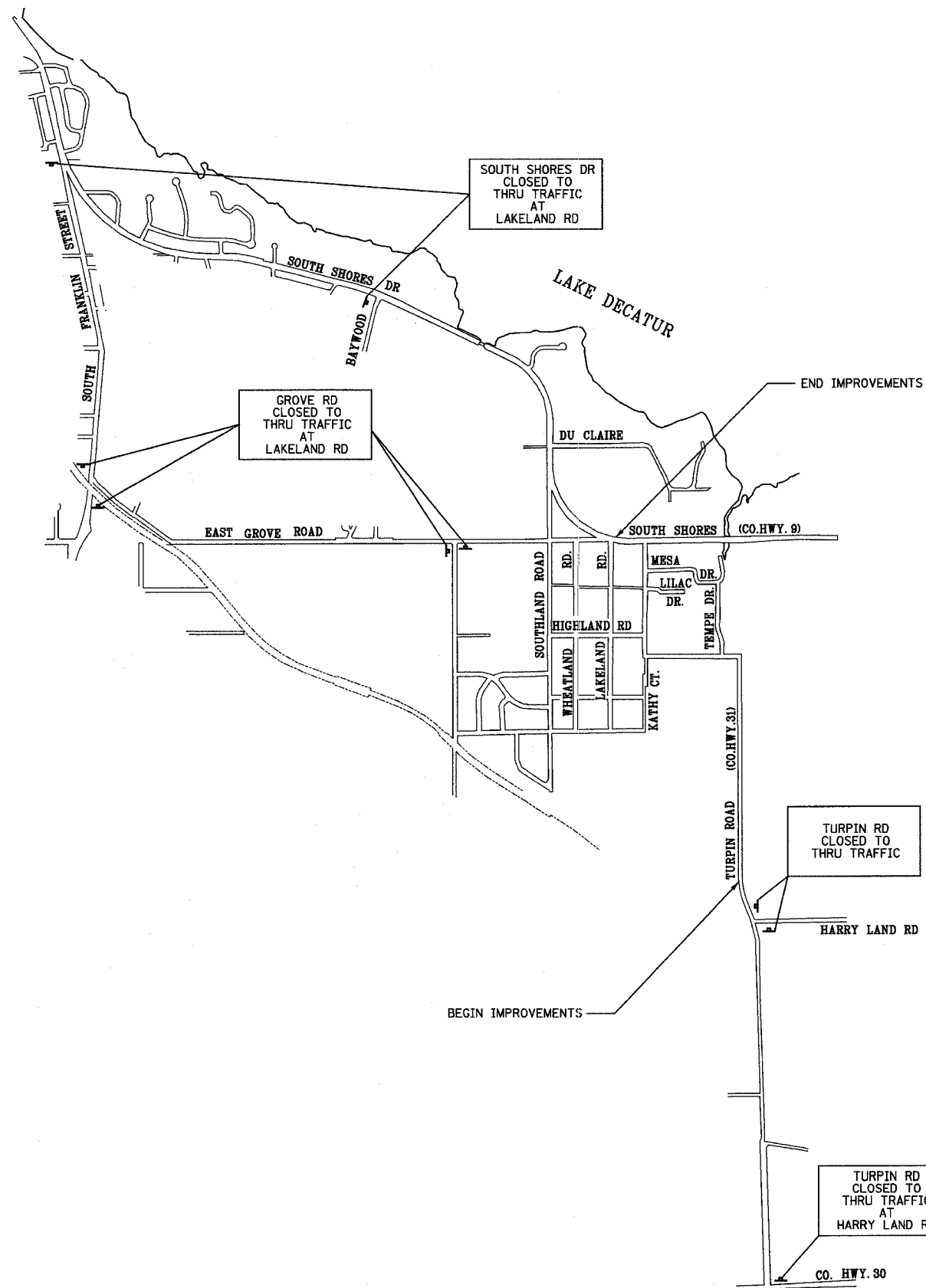
DECATUR
(817) 422-8544
CHICAGO
(773) 714-0050

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	14
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

* 02-00175-00-PV



NOT TO SCALE



REVISIONS			TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY DATE EMR 05/03	
NO.	DATE	INITIALS			CHECKED BY DATE GLF 03/05	
1					BOOK NUMBER 471	
2					PROJECT NO. 4805	
3					SHEET NO.	
4						
5						
6						
7						
8						
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TRAFFIC CONTROL AND STAGING

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001297

DECATUR
317 422-8644
CHICAGO
773 714-0050

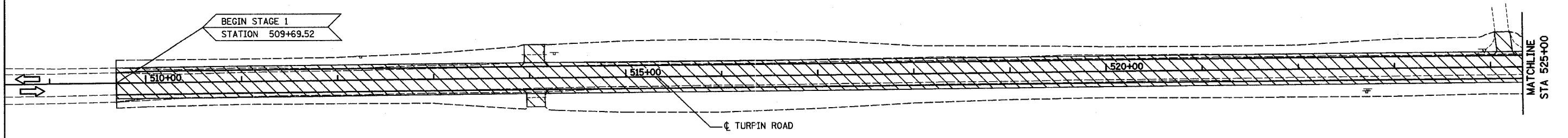
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CH 31	*	MACON	162	15
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

* 02-00175-00-PV

CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC

STAGE 1
 MAINTAIN LOCAL TRAFFIC ON TURPIN ROAD. CONSTRUCT THE PROPOSED TURPIN ROAD.

1. CONSTRUCT TURPIN ROAD COMPLETE FROM STA 509+69.52 TO STA 535+36
2. DURING CONSTRUCTION, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22 AND 701501.
3. CONSTRUCT TEMPORARY CONNECTION FROM NEWLY CONSTRUCTED TURPIN ROAD TO EXISTING TURPIN ROAD AT STA 535+36.

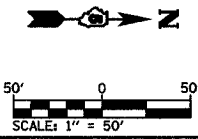


STAGE 1

STAGE 2

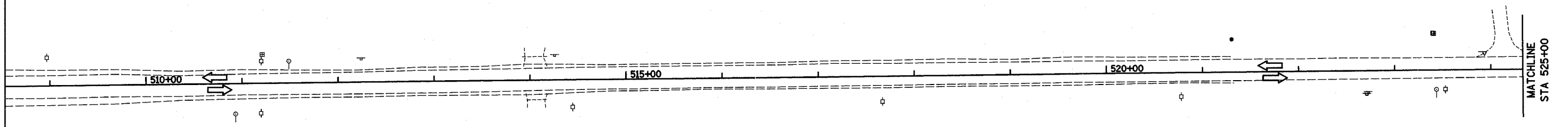
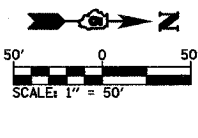
LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- OBLITERATE ROADWAY



LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC
- OBLITERATE ROADWAY



REVISIONS			TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY DATE	
NO.	DATE	INITIALS	EMR	05/03	CHECKED BY DATE	GLF 03/05
1					BOOK NUMBER	471
2					PROJECT No.	4805
3					SHEET No.	
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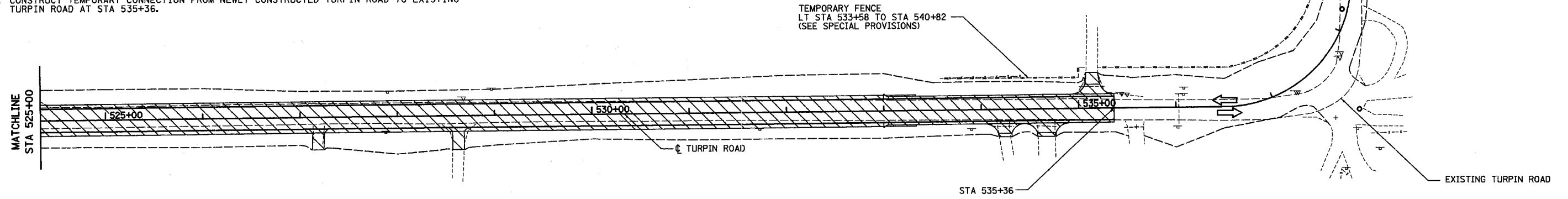
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	16
FEDERAL DIST.	ILLINOIS	PROJECT		

* 02-00175-00-PV

CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC

STAGE 1
MAINTAIN LOCAL TRAFFIC ON TURPIN ROAD. CONSTRUCT THE PROPOSED TURPIN ROAD.

1. CONSTRUCT TURPIN ROAD COMPLETE FROM STA 509+69.52 TO STA 535+36.
2. DURING CONSTRUCTION, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22.
3. CONSTRUCT TEMPORARY CONNECTION FROM NEWLY CONSTRUCTED TURPIN ROAD TO EXISTING TURPIN ROAD AT STA 535+36.

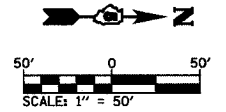


STAGE 1

STAGE 2

LEGEND

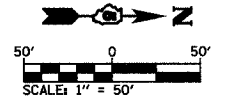
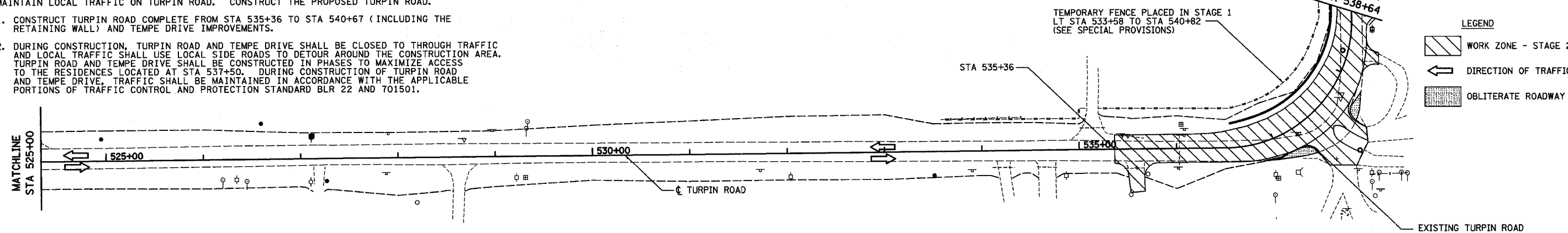
- WORK ZONE
- DIRECTION OF TRAFFIC
- OBLITERATE ROADWAY



CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC

STAGE 2A
MAINTAIN LOCAL TRAFFIC ON TURPIN ROAD. CONSTRUCT THE PROPOSED TURPIN ROAD.

1. CONSTRUCT TURPIN ROAD COMPLETE FROM STA 535+36 TO STA 540+67 (INCLUDING THE RETAINING WALL) AND TEMPE DRIVE IMPROVEMENTS.
2. DURING CONSTRUCTION, TURPIN ROAD AND TEMPE DRIVE SHALL BE CLOSED TO THROUGH TRAFFIC AND LOCAL TRAFFIC SHALL USE LOCAL SIDE ROADS TO DETOUR AROUND THE CONSTRUCTION AREA. TURPIN ROAD AND TEMPE DRIVE SHALL BE CONSTRUCTED IN PHASES TO MAXIMIZE ACCESS TO THE RESIDENCES LOCATED AT STA 537+50. DURING CONSTRUCTION OF TURPIN ROAD AND TEMPE DRIVE, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22 AND 701501.



LEGEND

- WORK ZONE - STAGE 2A
- DIRECTION OF TRAFFIC
- OBLITERATE ROADWAY

REVISIONS		TRAFFIC CONTROL AND STAGING		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DESIGN BY DATE EMR 05/03
No.	DATE	INITIALS				CHECKED BY DATE GLF 03/05
1						BOOK NUMBER 471
2						PROJECT No. 4805
3						SHEET No.
4						
5						
6						
7						
8						
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HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-00197

DECATUR
317 422-8544

CHICAGO
773 714-0060

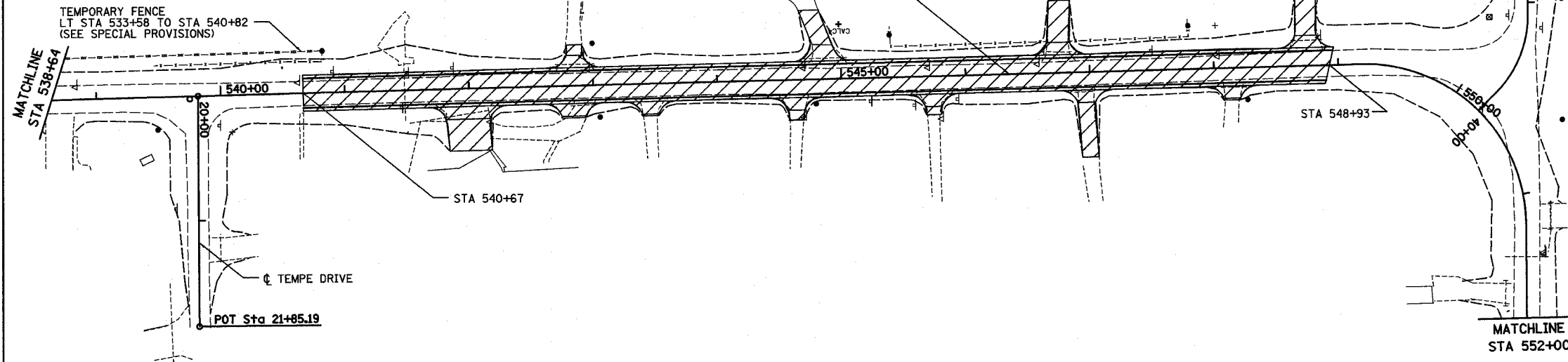
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	17
FEDERAL ROAD DIST. NO.		ILLINOIS	PROJECT	
* 02-00175-00-PV				

CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC

STAGE 1

MAINTAIN LOCAL TRAFFIC ON TURPIN ROAD. CONSTRUCT THE PROPOSED TURPIN ROAD.

1. CONSTRUCT TURPIN ROAD COMPLETE FROM STA 540+67 TO STA 548+93.
2. DURING CONSTRUCTION, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22. TRAFFIC ON EXISTING TURPIN ROAD CAN USE TEMPE DRIVE, KATHY COURT, AND MESA DRIVE TO DETOUR AROUND CONSTRUCTION AREA.
3. CONSTRUCT TEMPORARY CONNECTION FROM NEWLY CONSTRUCTED TURPIN ROAD TO EXISTING TURPIN ROAD AT STA 540+67 AND STA 548+93.



STAGE 1

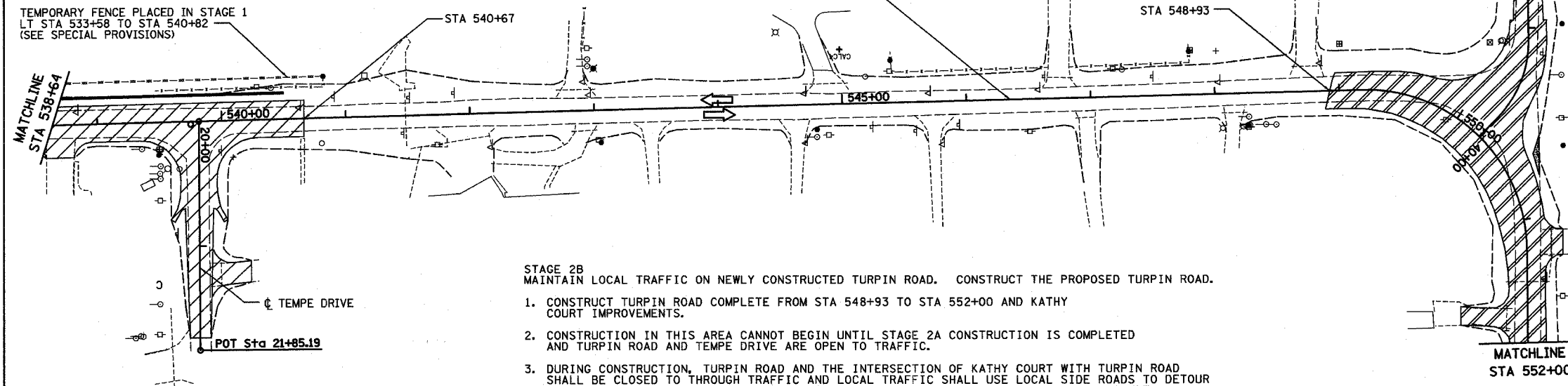
STAGE 2

CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC

STAGE 2A

MAINTAIN LOCAL TRAFFIC ON TURPIN ROAD. CONSTRUCT THE PROPOSED TURPIN ROAD.

1. CONSTRUCT TURPIN ROAD COMPLETE FROM STA 535+36 TO STA 540+67 (INCLUDING THE RETAINING WALL) AND TEMPE DRIVE IMPROVEMENTS.
2. DURING CONSTRUCTION, TURPIN ROAD AND TEMPE DRIVE SHALL BE CLOSED TO THROUGH TRAFFIC AND LOCAL TRAFFIC SHALL USE LOCAL SIDE ROADS TO DETOUR AROUND THE CONSTRUCTION AREA. TURPIN ROAD AND TEMPE DRIVE SHALL BE CONSTRUCTED IN PHASES TO MAXIMIZE ACCESS TO THE RESIDENCES LOCATED AT STA 537+50. DURING CONSTRUCTION OF TURPIN ROAD AND TEMPE DRIVE, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22 AND 701501.



STAGE 2B

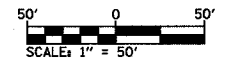
MAINTAIN LOCAL TRAFFIC ON NEWLY CONSTRUCTED TURPIN ROAD. CONSTRUCT THE PROPOSED TURPIN ROAD.

1. CONSTRUCT TURPIN ROAD COMPLETE FROM STA 548+93 TO STA 552+00 AND KATHY COURT IMPROVEMENTS.
2. CONSTRUCTION IN THIS AREA CANNOT BEGIN UNTIL STAGE 2A CONSTRUCTION IS COMPLETED AND TURPIN ROAD AND TEMPE DRIVE ARE OPEN TO TRAFFIC.
3. DURING CONSTRUCTION, TURPIN ROAD AND THE INTERSECTION OF KATHY COURT WITH TURPIN ROAD SHALL BE CLOSED TO THROUGH TRAFFIC AND LOCAL TRAFFIC SHALL USE LOCAL SIDE ROADS TO DETOUR AROUND THE CONSTRUCTION AREA. DURING CONSTRUCTION OF TURPIN ROAD AND KATHY COURT, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22 AND 701501.

LEGEND

WORK ZONE

DIRECTION OF TRAFFIC



LEGEND

WORK ZONE - STAGE 2A

DIRECTION OF TRAFFIC

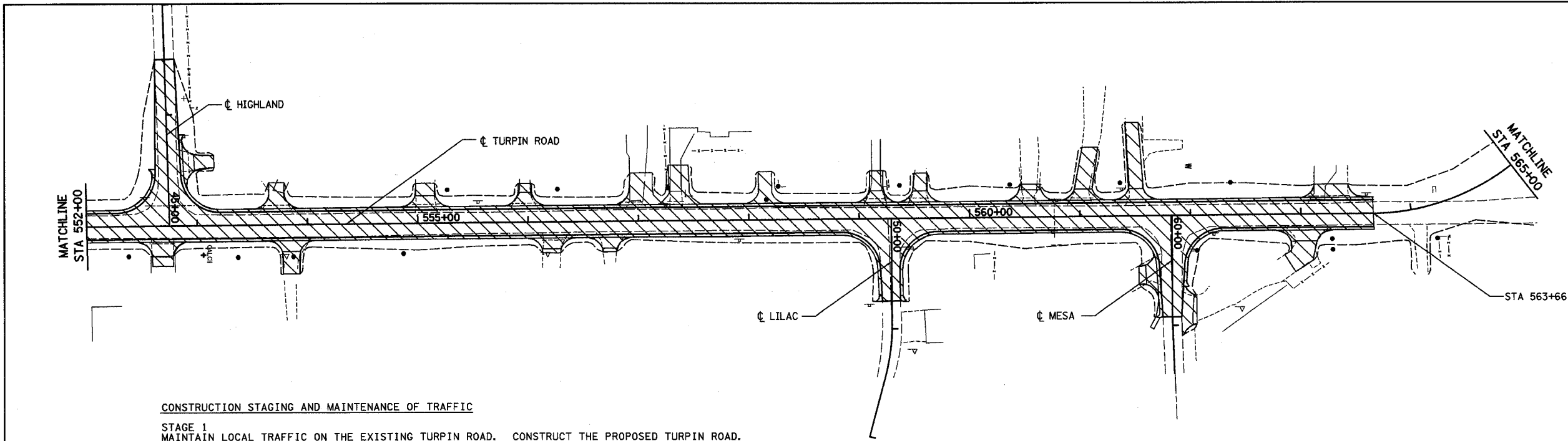
WORK ZONE - STAGE 2B

OBLITERATE ROADWAY



REVISIONS			TRAFFIC CONTROL AND STAGING	
NO.	DATE	INITIALS	TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	
1				DRAWN BY: EMR DATE: 05/03 CHECKED BY: GLF DATE: 03/05 BOOK NUMBER: 471 PROJECT NO.: 4805 SHEET NO.:
2				DECATUR (317) 422-8544 CHICAGO (773) 714-0060

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	18
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		
* 02-00175-00-PV				



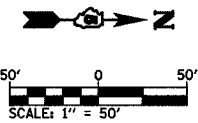
CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC

- STAGE 1**
 MAINTAIN LOCAL TRAFFIC ON THE EXISTING TURPIN ROAD. CONSTRUCT THE PROPOSED TURPIN ROAD.
1. CONSTRUCT TURPIN ROAD COMPLETE FROM STA 552+00 TO STA 563+66 AND HIGHLAND, LILAC AND MESA IMPROVEMENTS.
 2. DURING CONSTRUCTION, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22 AND 701501. TRAFFIC ON EXISTING TURPIN ROAD CAN USE LOCAL SIDE ROADS TO DETOUR AROUND CONSTRUCTION AREA.
 3. CONSTRUCT TEMPORARY CONNECTION FROM NEWLY CONSTRUCTED TURPIN ROAD TO EXISTING TURPIN ROAD AT STA 552+00 AND STA 563+66.

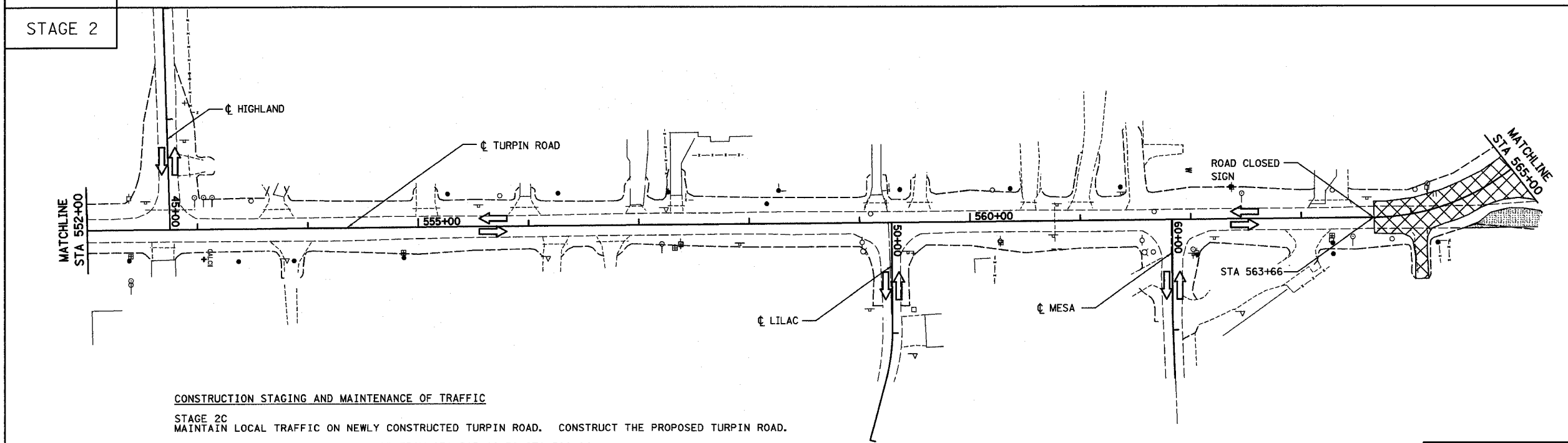
LEGEND

WORK ZONE

DIRECTION OF TRAFFIC



STAGE 1



CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC

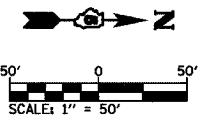
- STAGE 2C**
 MAINTAIN LOCAL TRAFFIC ON NEWLY CONSTRUCTED TURPIN ROAD. CONSTRUCT THE PROPOSED TURPIN ROAD.
1. CONSTRUCT TURPIN ROAD COMPLETE FROM STA 563+66 TO STA 566+94.
 2. CONSTRUCTION IN THIS AREA CANNOT BEGIN UNTIL STAGE 2B CONSTRUCTION IS COMPLETED AND TURPIN ROAD AND KATHY COURT ARE OPEN TO TRAFFIC.
 3. DURING CONSTRUCTION, TURPIN ROAD SHALL BE CLOSED TO THROUGH TRAFFIC AND LOCAL TRAFFIC SHALL USE LOCAL SIDE ROADS TO DETOUR AROUND THE CONSTRUCTION AREA. DURING CONSTRUCTION OF TURPIN ROAD, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22 AND 701501.

LEGEND

WORK ZONE STAGE 2C

DIRECTION OF TRAFFIC

OBLITERATE ROADWAY



STAGE 2

REVISIONS		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY	DATE
NO.	DATE	INITIALS		EMR	05/03
1				CHECKED BY	DATE
2				GLF	03/05
3				BOOK NUMBER	471
4				PROJECT No.	4805
5				SHEET No.	
6					
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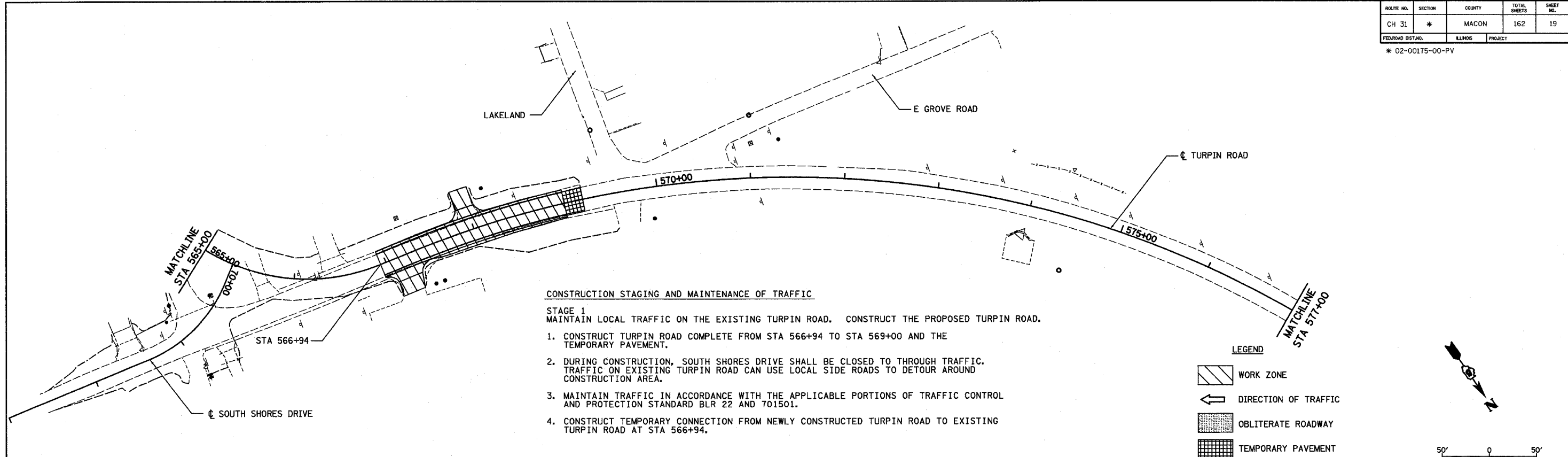
HOMER L. CHASTAIN & ASSOCIATES, LLP
 CONSULTING ENGINEERS
184-00137

DECATUR
(317) 422-8544

CHICAGO
(773) 714-0050

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	19
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

* 02-00175-00-PV

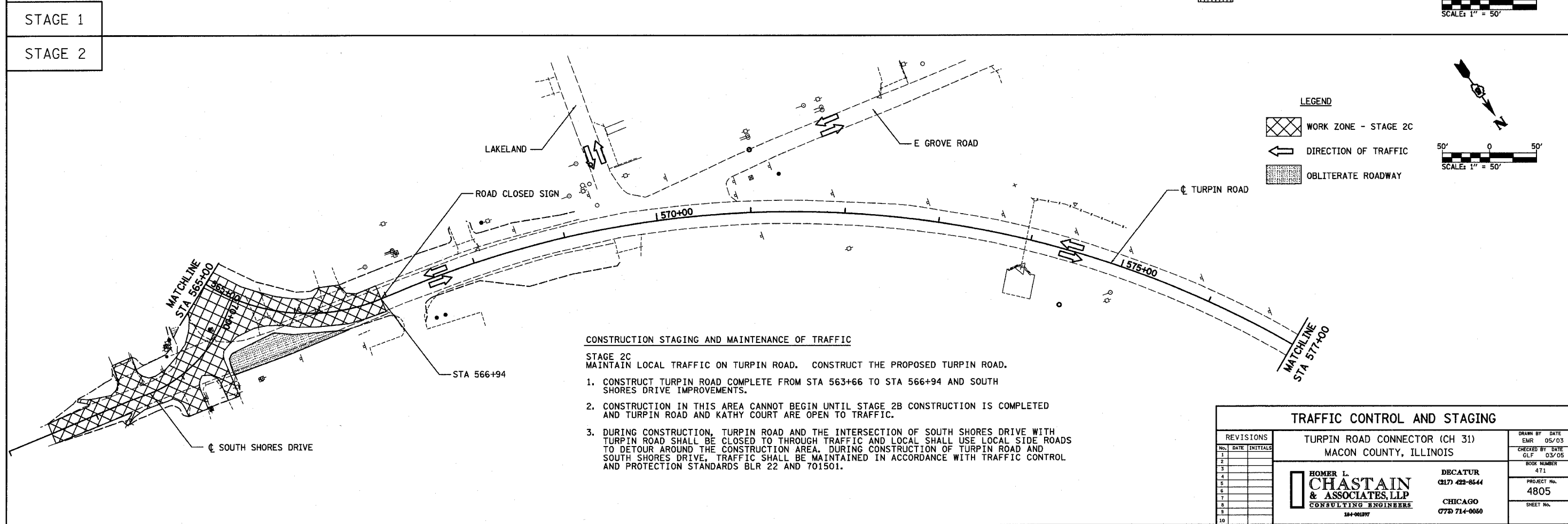


CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC

STAGE 1
 MAINTAIN LOCAL TRAFFIC ON THE EXISTING TURPIN ROAD. CONSTRUCT THE PROPOSED TURPIN ROAD.

1. CONSTRUCT TURPIN ROAD COMPLETE FROM STA 566+94 TO STA 569+00 AND THE TEMPORARY PAVEMENT.
2. DURING CONSTRUCTION, SOUTH SHORES DRIVE SHALL BE CLOSED TO THROUGH TRAFFIC. TRAFFIC ON EXISTING TURPIN ROAD CAN USE LOCAL SIDE ROADS TO DETOUR AROUND CONSTRUCTION AREA.
3. MAINTAIN TRAFFIC IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION STANDARD BLR 22 AND 701501.
4. CONSTRUCT TEMPORARY CONNECTION FROM NEWLY CONSTRUCTED TURPIN ROAD TO EXISTING TURPIN ROAD AT STA 566+94.

STAGE 1



CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC

STAGE 2C
 MAINTAIN LOCAL TRAFFIC ON TURPIN ROAD. CONSTRUCT THE PROPOSED TURPIN ROAD.

1. CONSTRUCT TURPIN ROAD COMPLETE FROM STA 563+66 TO STA 566+94 AND SOUTH SHORES DRIVE IMPROVEMENTS.
2. CONSTRUCTION IN THIS AREA CANNOT BEGIN UNTIL STAGE 2B CONSTRUCTION IS COMPLETED AND TURPIN ROAD AND KATHY COURT ARE OPEN TO TRAFFIC.
3. DURING CONSTRUCTION, TURPIN ROAD AND THE INTERSECTION OF SOUTH SHORES DRIVE WITH TURPIN ROAD SHALL BE CLOSED TO THROUGH TRAFFIC AND LOCAL SHALL USE LOCAL SIDE ROADS TO DETOUR AROUND THE CONSTRUCTION AREA. DURING CONSTRUCTION OF TURPIN ROAD AND SOUTH SHORES DRIVE, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS BLR 22 AND 701501.

STAGE 2

REVISIONS		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY	DATE
No.	DATE	INITIALS		EMR	05/03
1				GLF	03/05
2				BOOK NUMBER	471
3				PROJECT No.	4805
4				SHEET No.	
5					
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**HOMER L.
CHASTAIN
& ASSOCIATES, LLP**
CONSULTING ENGINEERS

184-061977

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317 422-8544

CHICAGO
773 714-0050

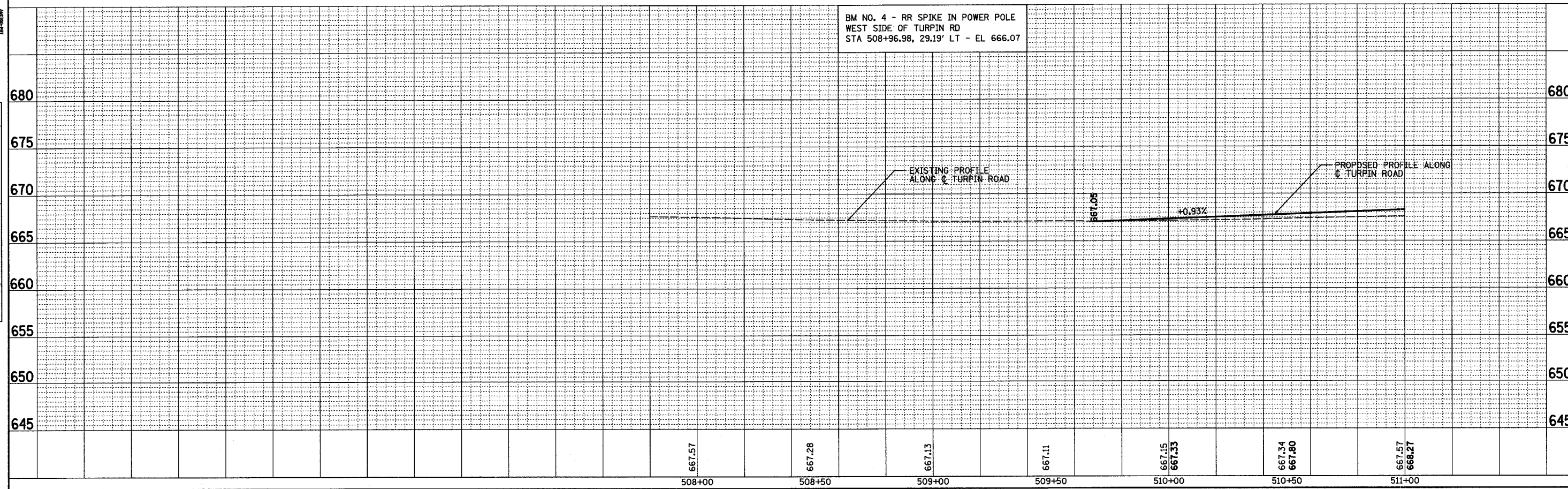
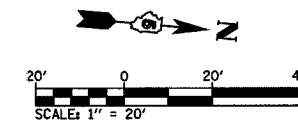
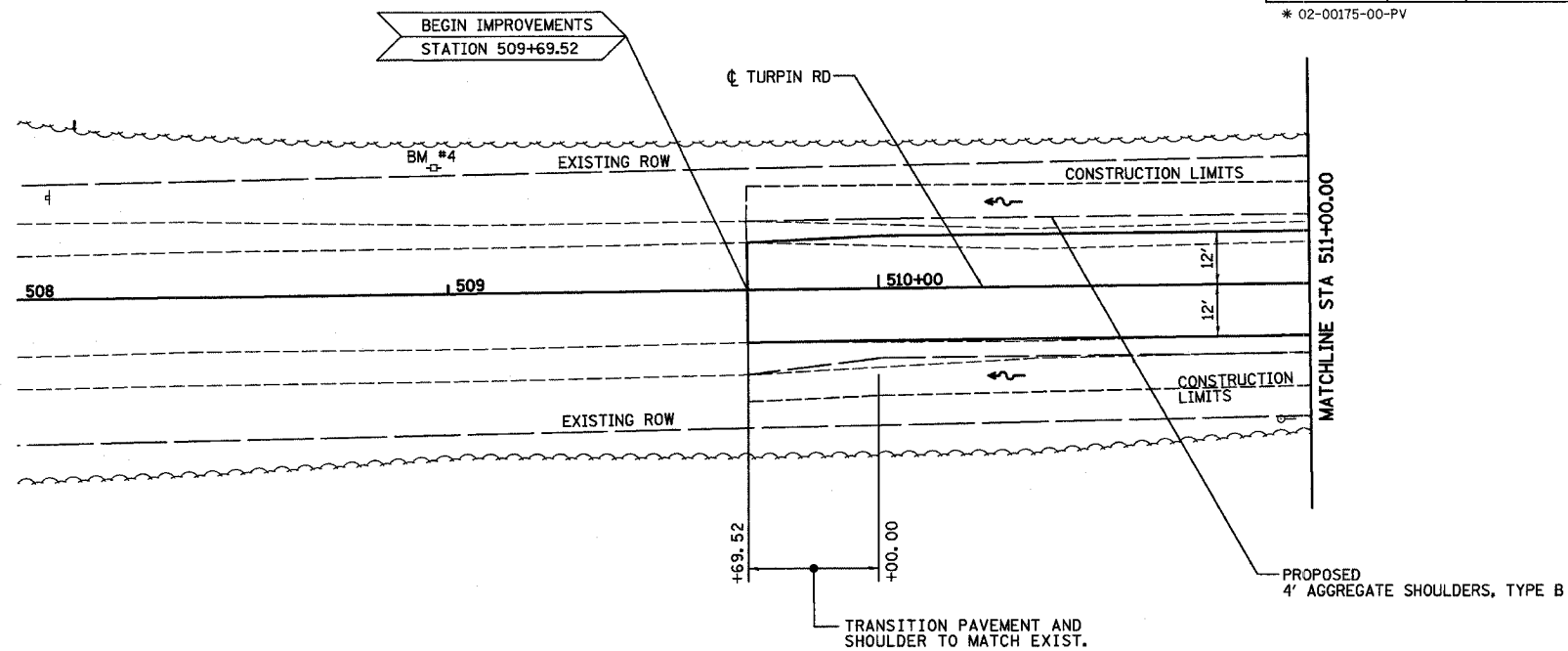
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	20
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS		PROJECT
* 02-00175-00-PV				

EXISTING TOPO LEGEND

- ⊙ MANHOLE
- GAS METER
- ⌘ MAILBOX
- ⊙ WATER METER
- ⊞ TELEPHONE BOX
- ⊕ FIRE HYDRANT
- ⊙ LIGHT POLE
- ⊙ GUY ANCHOR
- ⊕ POWER POLE
- ⊙ SIGN
- ⊙ TREE
- IRON PIN OR PROPERTY PIN
- ↔ SAME OWNERSHIP
- P — PROPERTY LINE
- X - X - X - FENCE
- W — WATER MAIN
- G — GAS
- T — TELEPHONE
- ~ ~ ~ CULTIVATION LINE
- — — EXISTING ROW
- /// /// /// UTILITY EASEMENT
- - - SECTION LINE
- ~ ~ ~ FLOW DIRECTION

PROPOSED LEGEND

- FLOW DIRECTION
- ◄ END SECTION
- CULVERT
- INLET
- ⊙ MANHOLE
- ↔ SUMMIT
- PIPE UNDERDRAIN
- STORM SEWER
- △ STRUCTURE NUMBER
- ⊙ STORM SEWER NUMBER
- TBR TO BE REMOVED
- - - PROPOSED ROW
- /// /// /// TEMPORARY EASEMENT



STA 508+00 TO STA 511+00

PLAN

DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY

CHICAGO 7730 714-0660

DECATUR 0317 422-8444

HOMER L. CHASTAIN & ASSOCIATES, LLP
CORPORATE ENGINEERS

PROFILE

DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	21
STA.	TO STA.			
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		
* 02-00175-00-PV				

PLAN

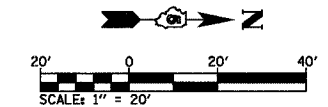
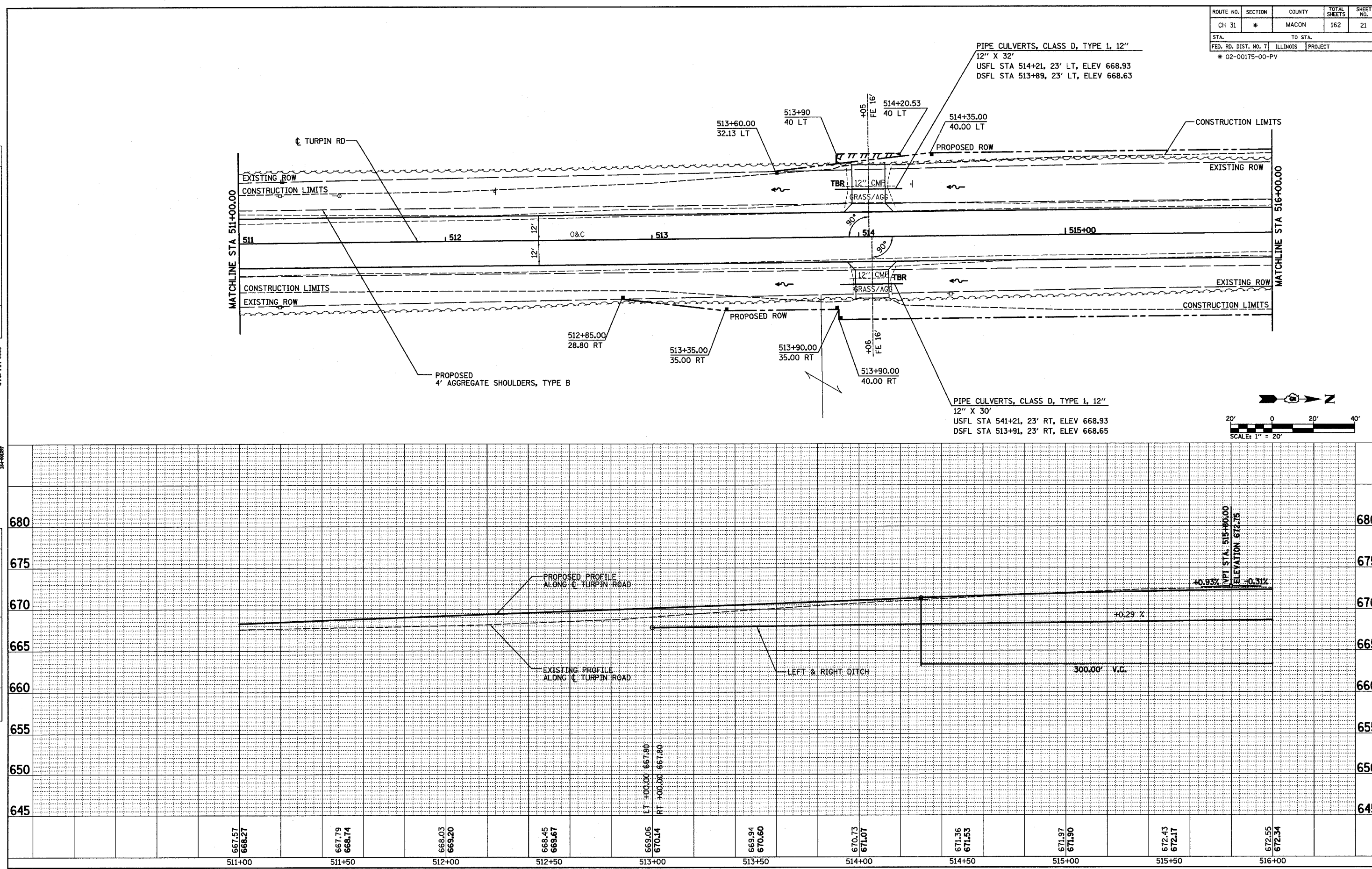
DATE	
BY	
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ALIGNED	
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ET. OF WAY	
CHECKED	
NO.	

DECATUR
6171 429-844
CHICAGO
673 714-000

HOWER L. CHASTAIN & ASSOCIATES LLP
CONSULTING ENGINEERS
344-4897

PROFILE

DATE	
BY	
SURVEYED	
NOTED	
GRADES	
CHECKED	
STRUCTURE	
NOTATIONS	
CHECKED	
NO.	



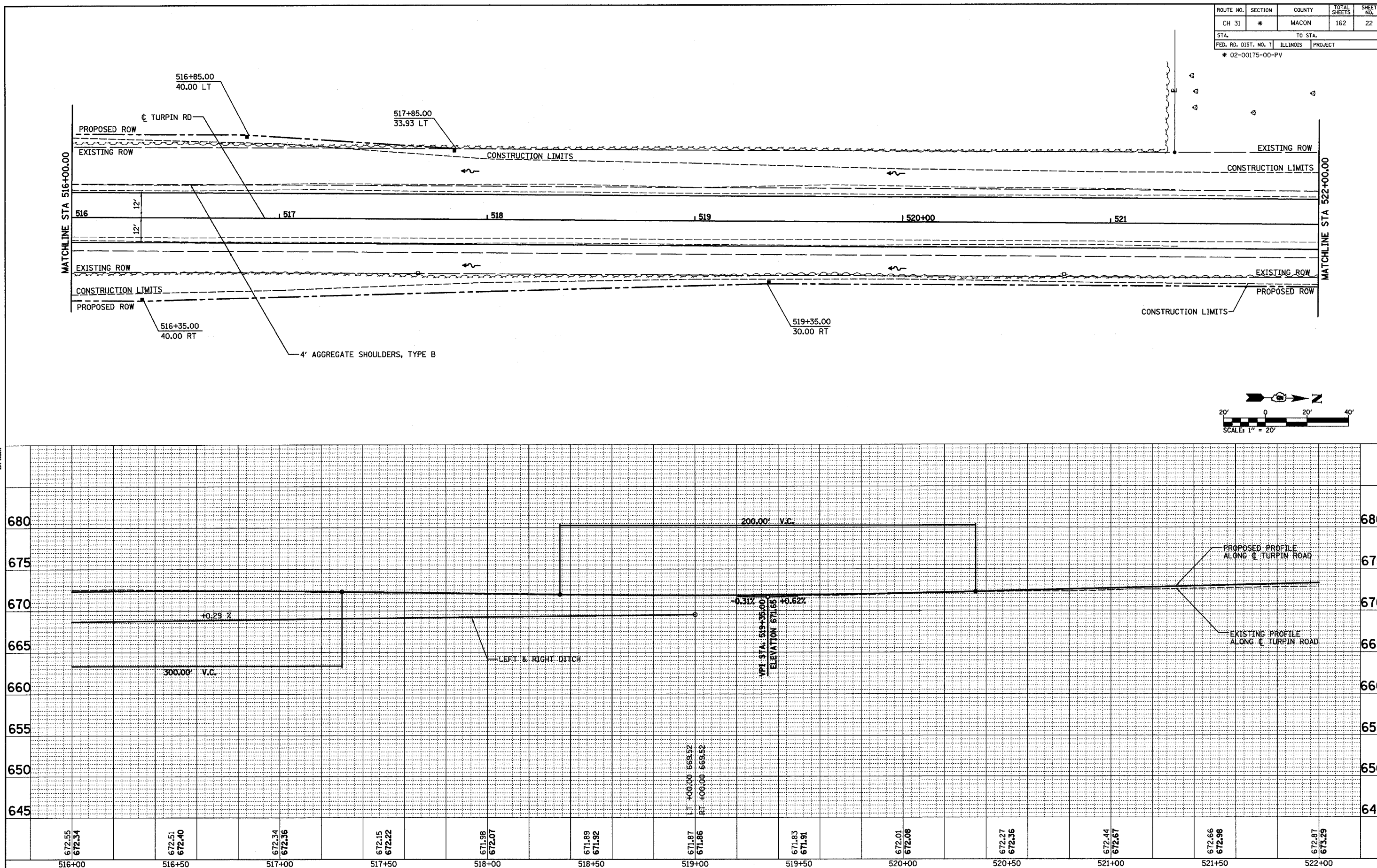
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	22
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
* 02-00175-00-PV				

PLAN	SURVEYED	DATE
	NOTED	
	ALIGNED	
	BY	
	NO. OF	
	BY	
	NO.	

DECATUR
017 425-8644
CHICAGO
079 714-0060

HOWER L.
CHASTAIN
& ASSOCIATES LLP
CONSULTING ENGINEERS
14-0007

PROFILE	SURVEYED	DATE
	NOTED	
	BY	
	NO. OF	
	BY	
	NO.	



STA 516+00 TO STA 522+00

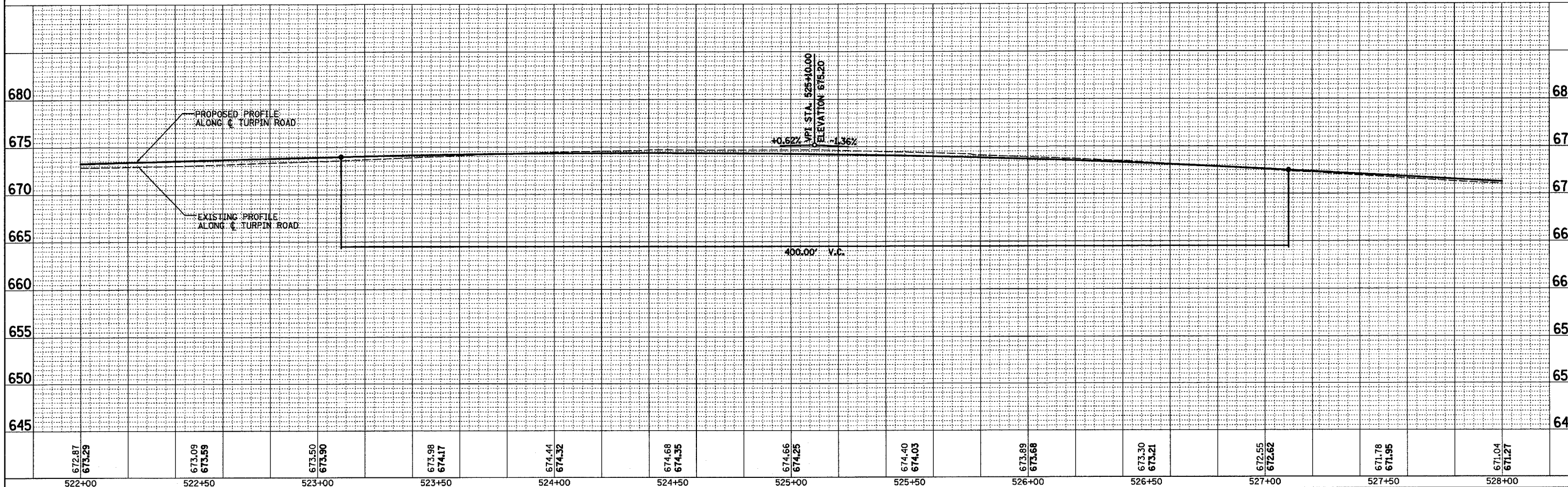
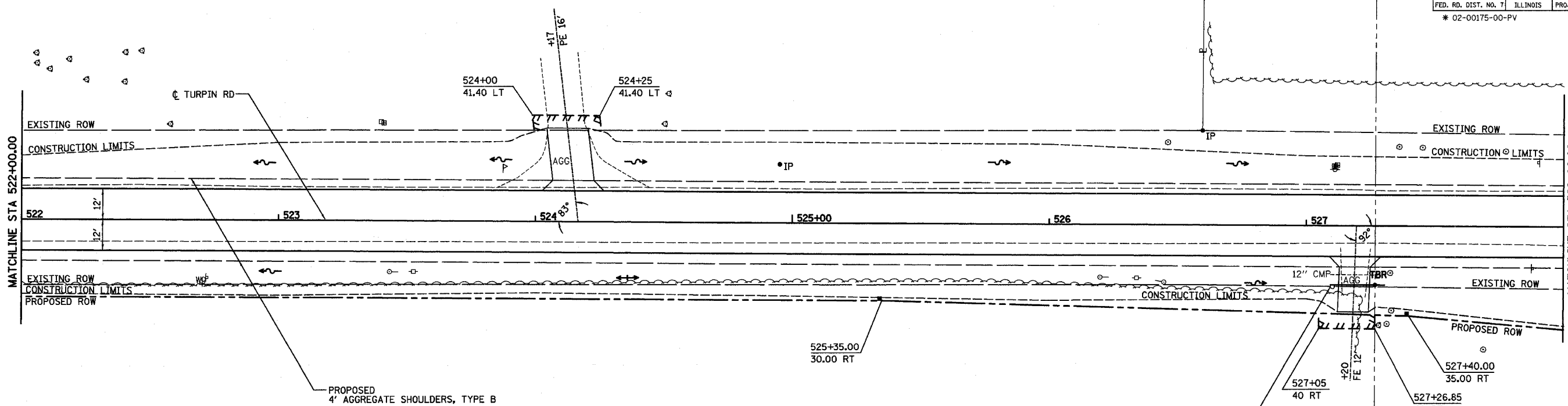
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	23
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS		PROJECT
* 02-00175-00-PV				

PLAN	DATE
NO.	
SURVEYED BY	
NOTED BY	
CHECKED BY	
DATE	

DB/CATUR
017 425-644
CHICAGO
073 714-069

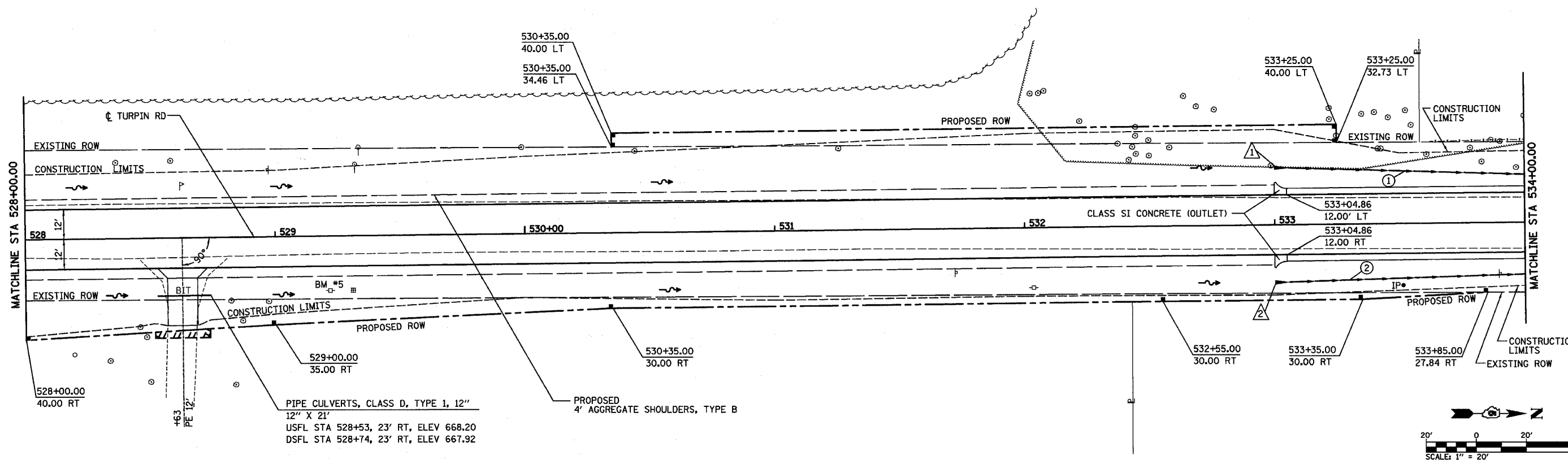
HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
M-40097

PROFILE	DATE
NO.	
SURVEYED BY	
NOTED BY	
CHECKED BY	
DATE	



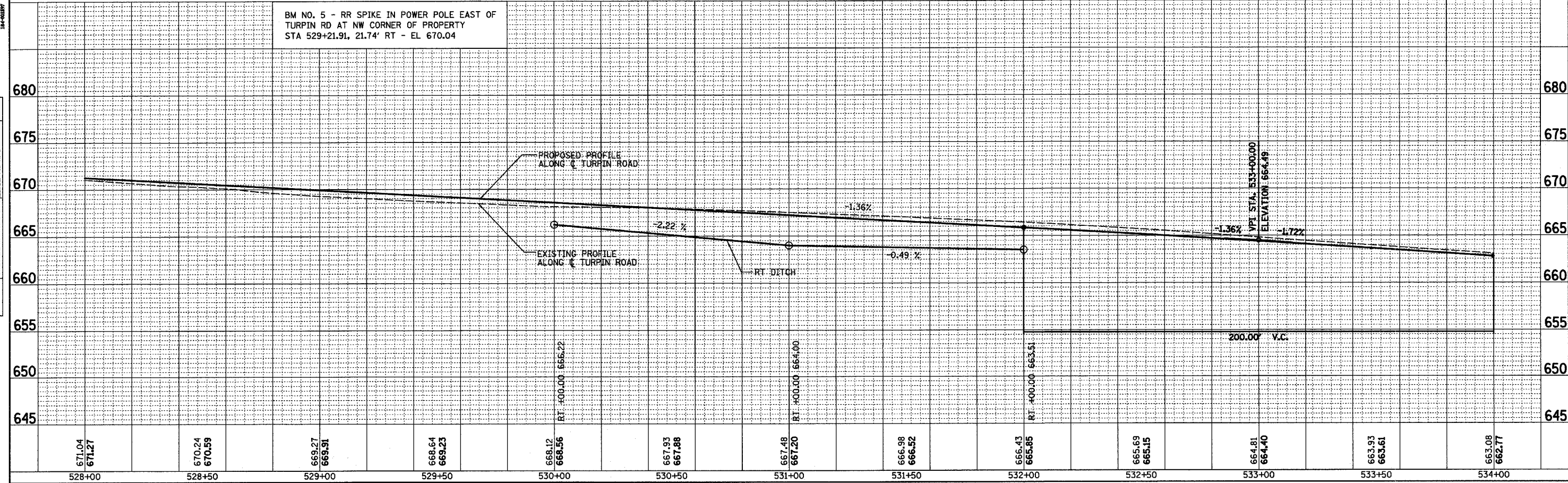
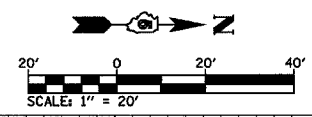
STA 522+00 TO STA 528+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	24
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS		PROJECT
* 02-00175-00-PV				



PIPE CULVERTS, CLASS D, TYPE 1, 12" X 21'
 USFL STA 528+53, 23' RT, ELEV 668.20
 DSFL STA 528+74, 23' RT, ELEV 667.92

PROPOSED 4' AGGREGATE SHOULDERS, TYPE B



BM NO. 5 - RR SPIKE IN POWER POLE EAST OF TURPIN RD AT NW CORNER OF PROPERTY
 STA 529+21.91, 21.74' RT - EL 670.04

BY: _____ DATE: _____
 SURVEYED: _____
 PLAN: _____
 CHICAGO
 770 714-0960

ROMER L. CHASTAIN & ASSOCIATES, LLP
 CONSULTING ENGINEERS
 14-0007

BY: _____ DATE: _____
 SURVEYED: _____
 PROFILE: _____
 CHICAGO
 STRUCTURE NOTATIONS OK'D

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	25
STA.	TO STA.			
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		

* 02-00175-00-PV

DATE	BY

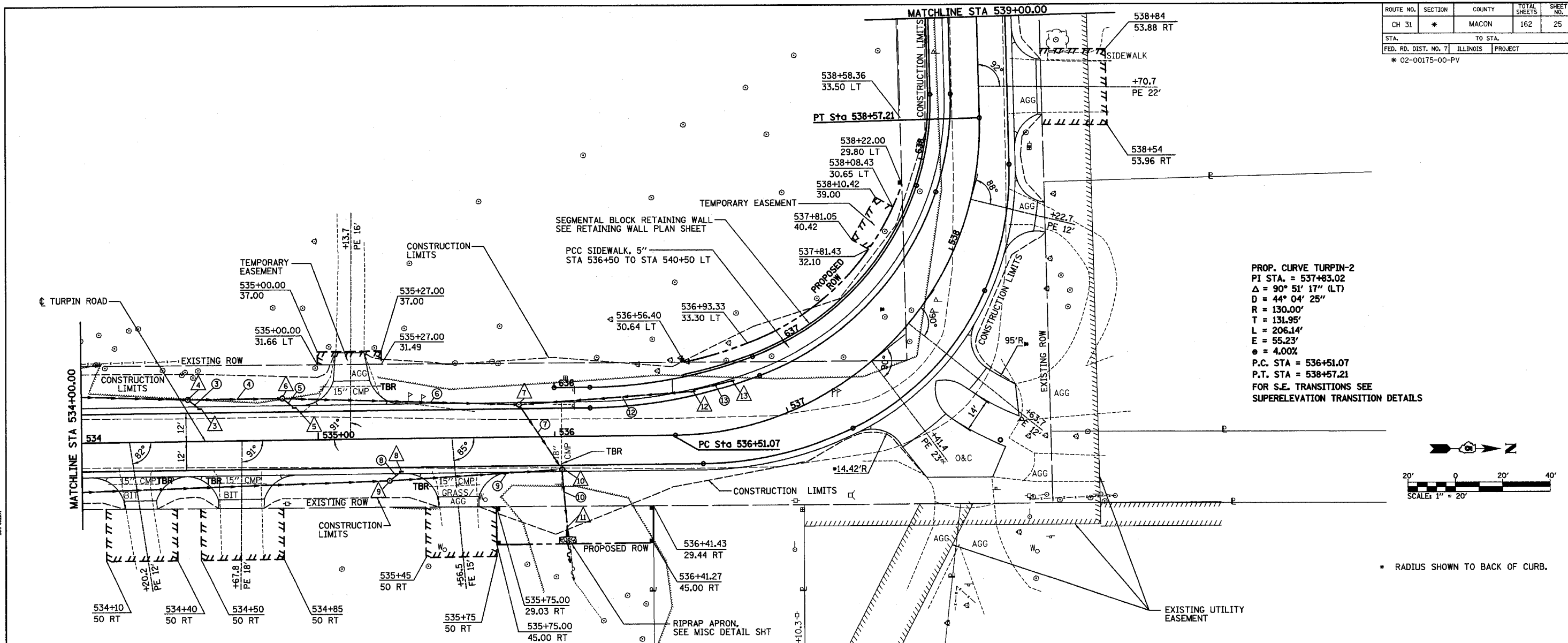
PLAN
SURVEYED
NOTED
NO. 10

DECATUR 017 425-8644
CHICAGO 0773 714-0060

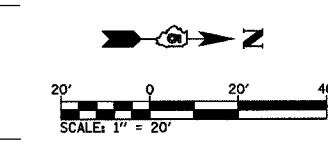
ROMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
14-00897

DATE	BY

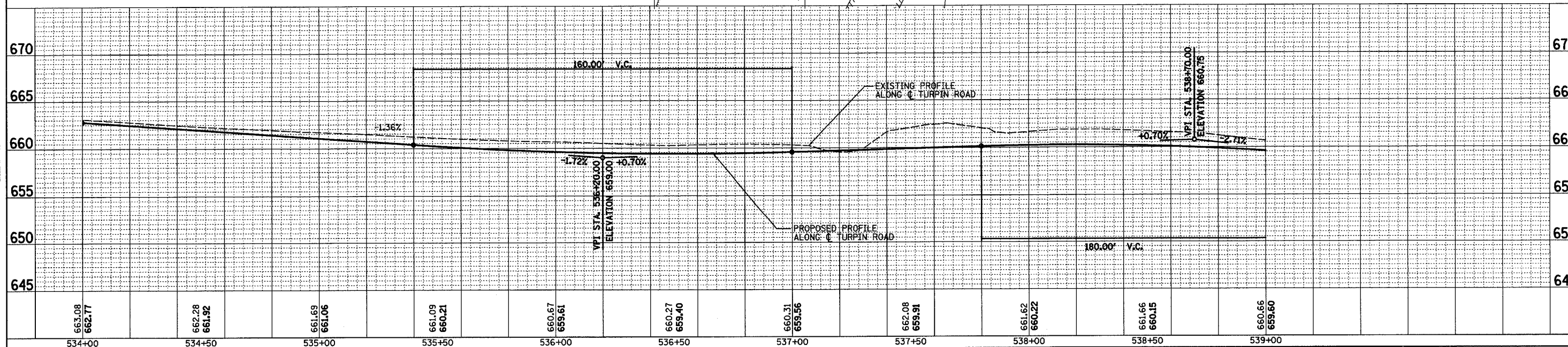
PROFILE
SURVEYED
NOTED
NO. 10



PROP. CURVE TURPIN-2
 PI STA. = 537+83.02
 $\Delta = 90^\circ 51' 17''$ (LT)
 $D = 44^\circ 04' 25''$
 $R = 130.00'$
 $T = 131.95'$
 $L = 206.14'$
 $E = 55.23'$
 $e = 4.00\%$
 P.C. STA = 536+51.07
 P.T. STA = 538+57.21
 FOR S.E. TRANSITIONS SEE
 SUPERELEVATION TRANSITION DETAILS

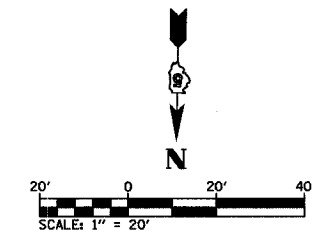
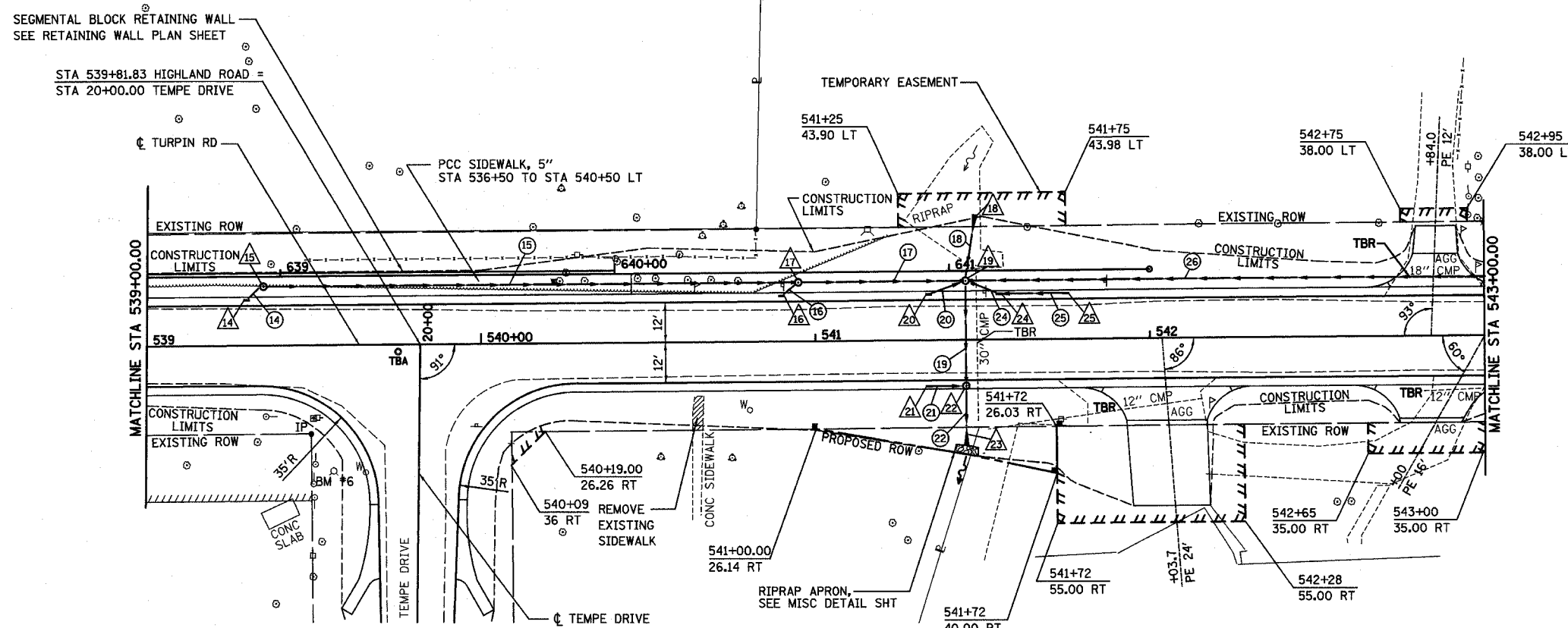


• RADIUS SHOWN TO BACK OF CURB.

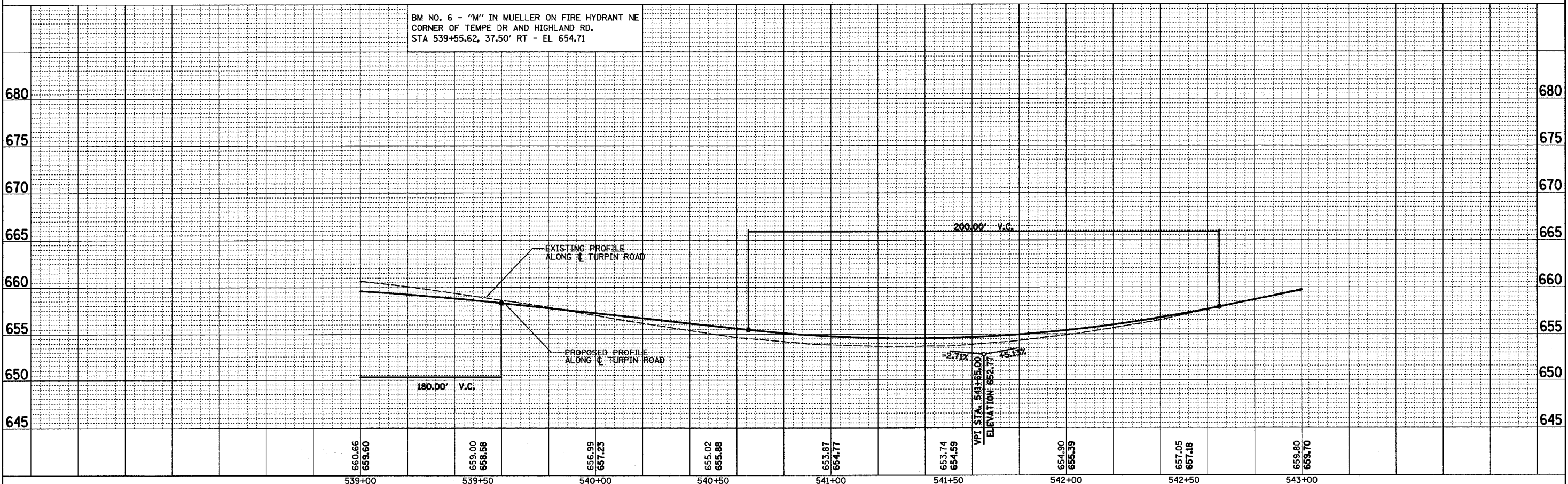


STA 534+00 TO STA 539+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	26
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS		PROJECT
* 02-00175-00-PV				



BM NO. 6 - "M" IN MUELLER ON FIRE HYDRANT NE CORNER OF TEMPE DR AND HIGHLAND RD. STA 539+55.62, 37.50' RT - EL 654.71



STA 539+00 TO STA 543+00

PLAN	DATE
BY	
DATE	
BY	
DATE	

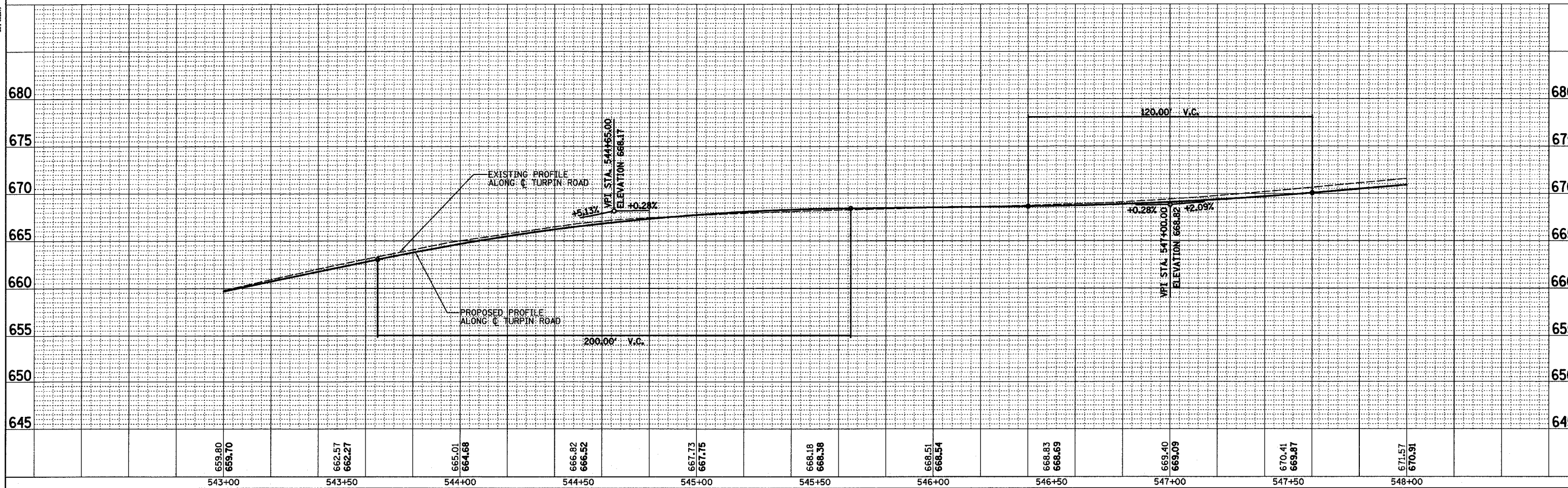
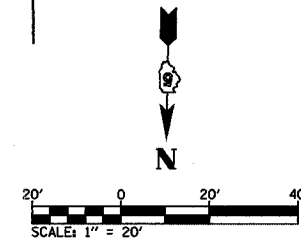
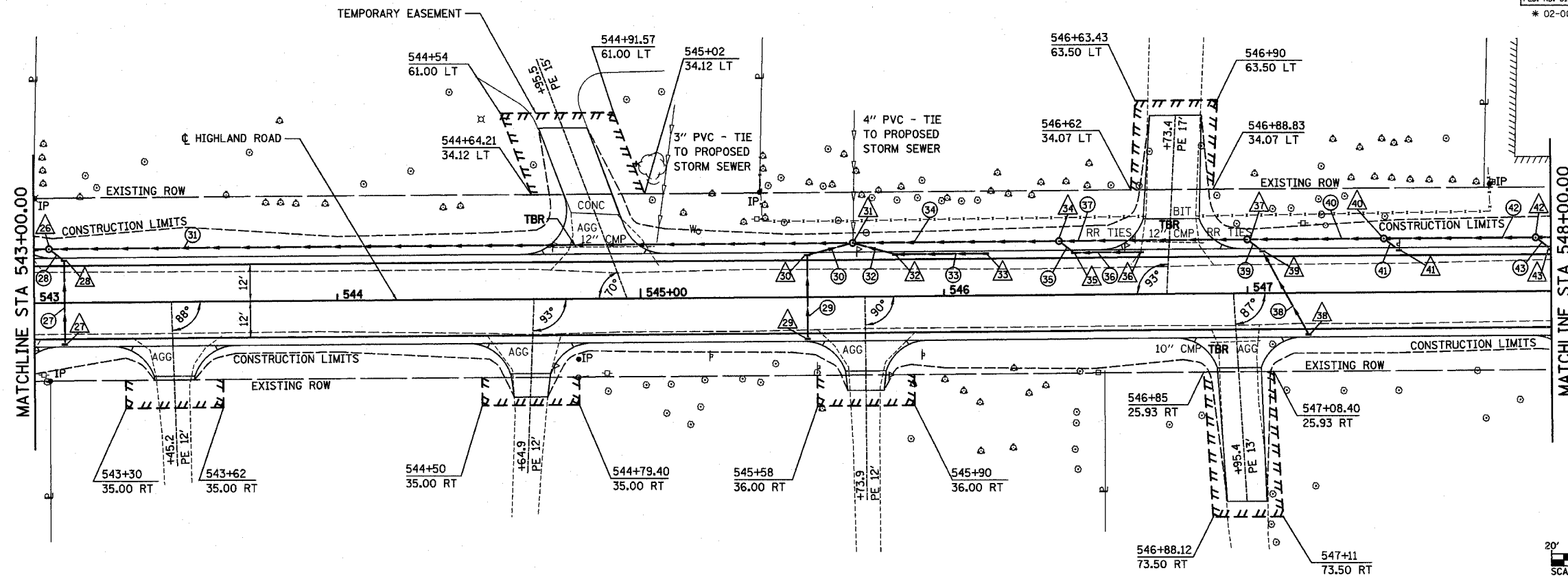
DECATUR
0317 429-8644
CHICAGO
0770 714-0080

HOMER L. CHASTAIN & ASSOCIATES, LLP
CORRECTING ENGINEER

PROFILE	DATE
BY	
DATE	
BY	
DATE	

STRUCTURE NOTATIONS CRED

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	27
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS		PROJECT
* 02-00175-00-PV				



STA 543+00 TO STA 548+00

DECATUR

DATE	BY

PLAN

NO.	DATE	BY

CHICAGO

NO.	DATE	BY

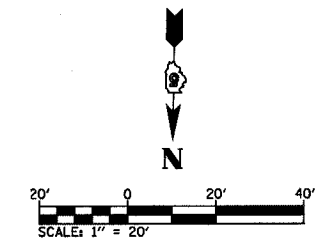
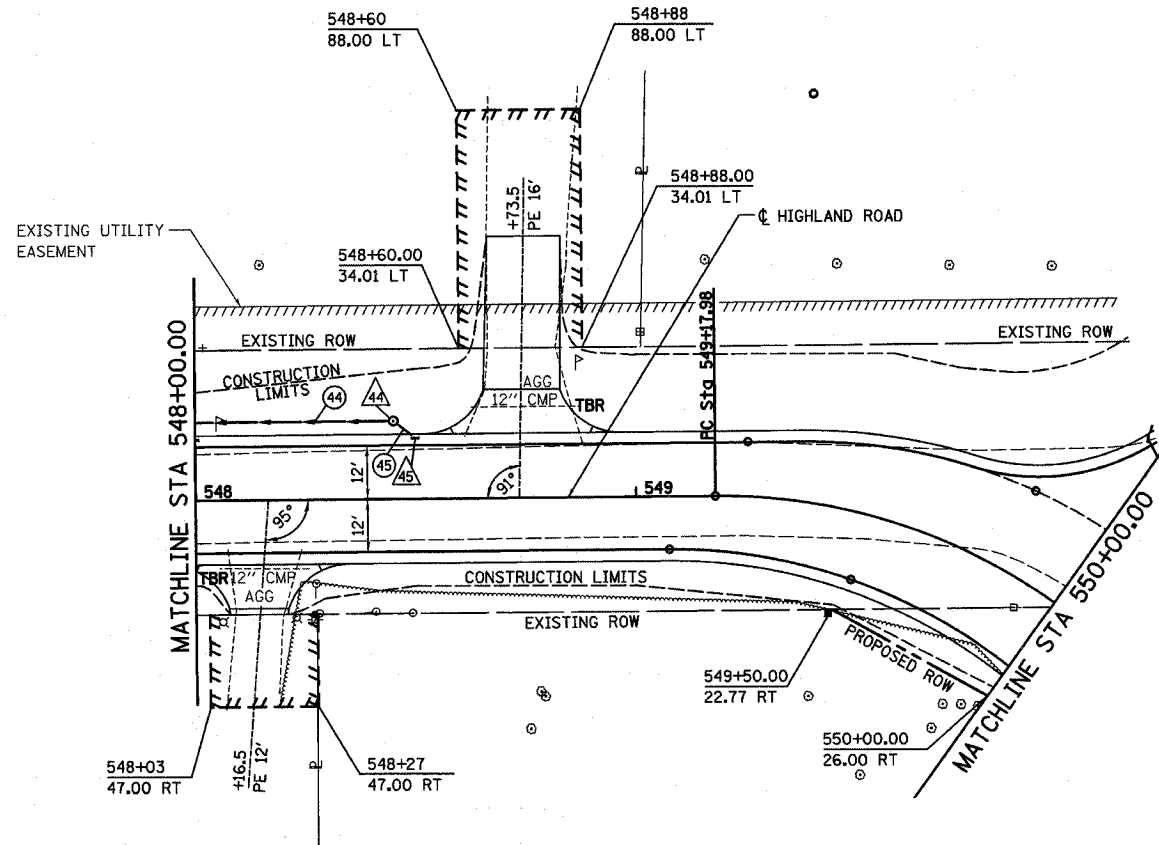
HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
844-9887

PROFILE

NO.	DATE	BY

STRUCTURE NOTATIONS CHD

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	28
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
* 02-00175-00-PV				



PLAN

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PLOTTED	
NOTED	
BY	

NO. _____

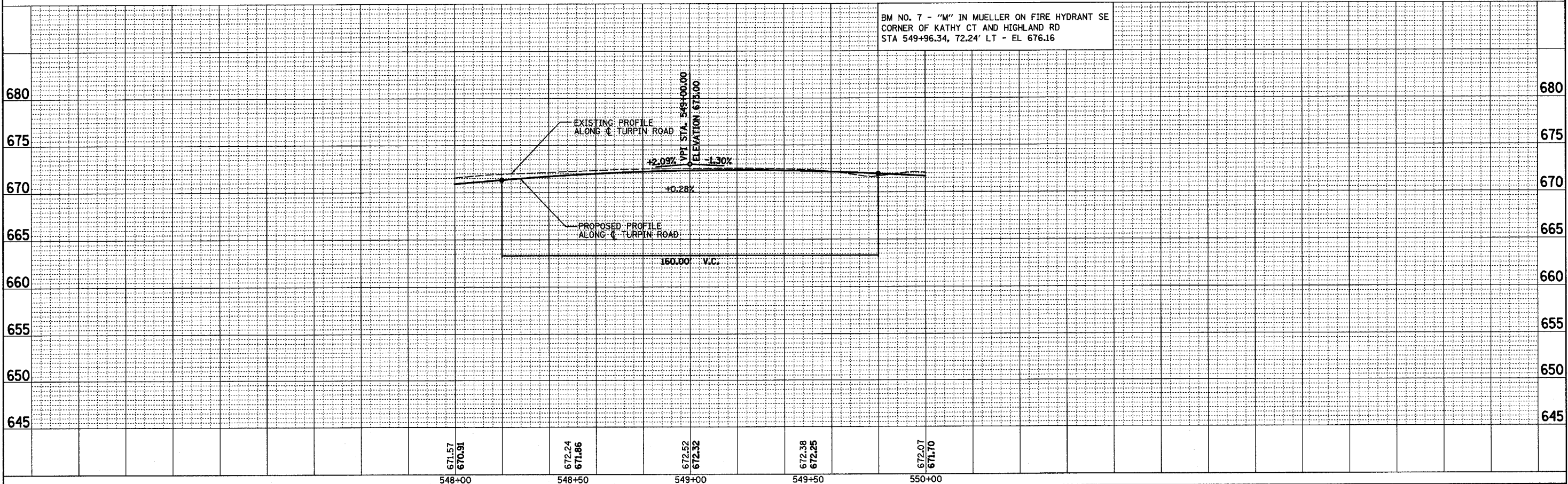
DECATUR
0217 42-844
CHICAGO
073 714-0080

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS

PROFILE

SURVEYED	DATE
PLOTTED	
NOTED	
BY	

NO. _____



STA 548+00 TO STA 550+00

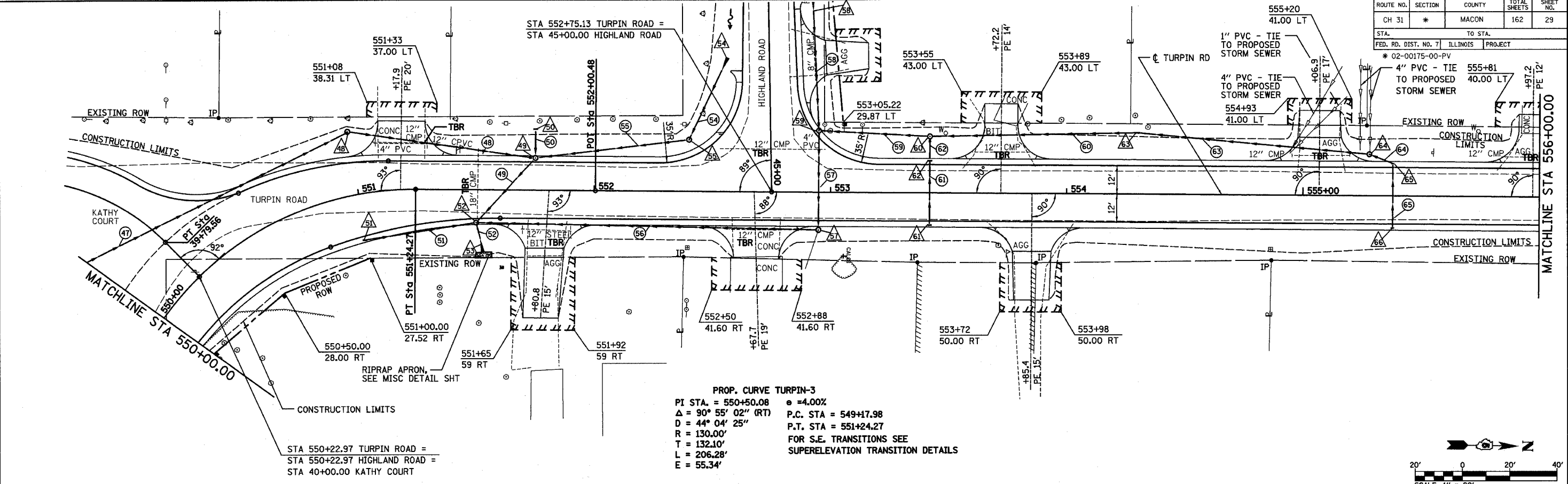
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CH 31	*	MACON	162	29

DECATUR
637 429-644
CHICAGO
773 714-080

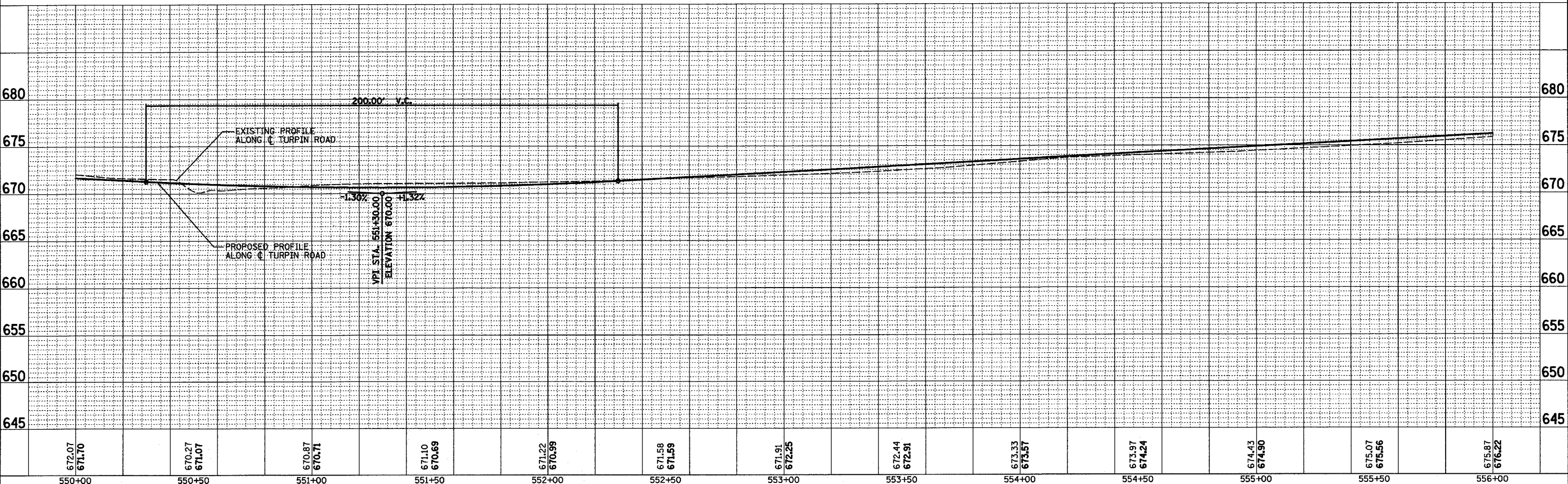
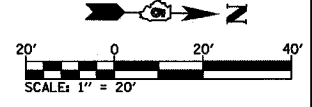
DATE _____ BY _____
SURVEYED _____
ALIGNED _____
NOTED _____
RT. OF WAY CHECKED _____
NO. _____

ROMER L. CHASTAIN & ASSOCIATES, L.P.
CONSULTING ENGINEERS
384-9887

DATE _____ BY _____
SURVEYED _____
NOTED _____
STRUCTURE NOTATIONS OK'D _____
NO. _____



PROP. CURVE TURPIN-3
 PI STA. = 550+50.08 e = 4.00%
 Δ = 90° 55' 02" (RT) P.C. STA = 549+17.98
 D = 44° 04' 25" P.T. STA = 551+24.27
 R = 130.00' FOR S.E. TRANSITIONS SEE
 T = 132.10' SUPERELEVATION TRANSITION DETAILS
 L = 206.28'
 E = 55.34'



STA 550+00 TO STA 556+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	30
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		

DECATUR 017 429-844 CHICAGO 079 714-066

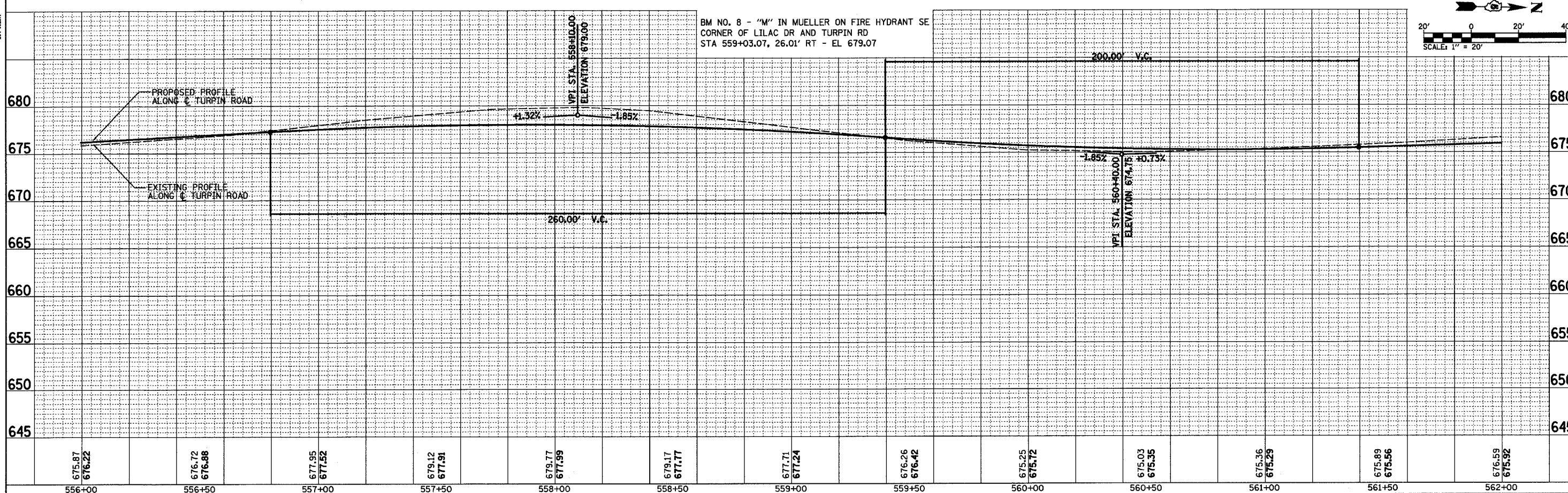
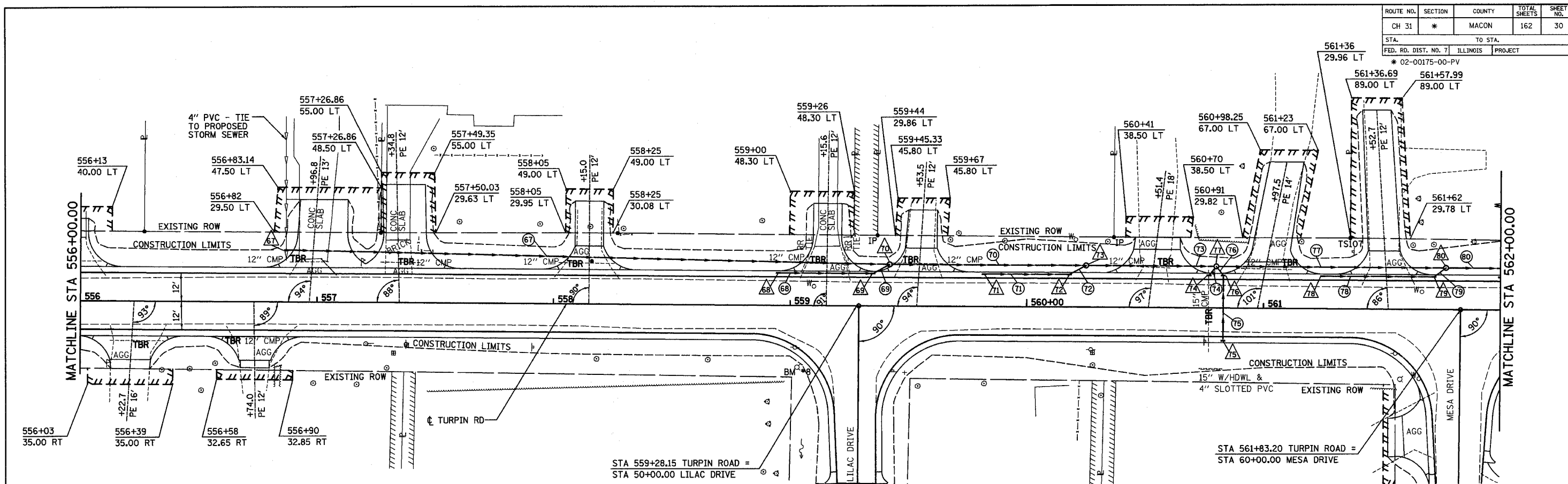
DATE	BY

PLAN SURVEYED, NOTED, ALIGNED, CHECKED, RT. OF WAY CHECKED, NO.

FOSTER L. CHASTAIN & ASSOCIATES LLP CONSULTING ENGINEERS

DATE	BY

PROFILE SURVEYED, NOTED, CHECKED, RT. OF WAY CHECKED, STRUCTURE NOTATIONS OK'D, NO.



STA 556+00 TO STA 562+00

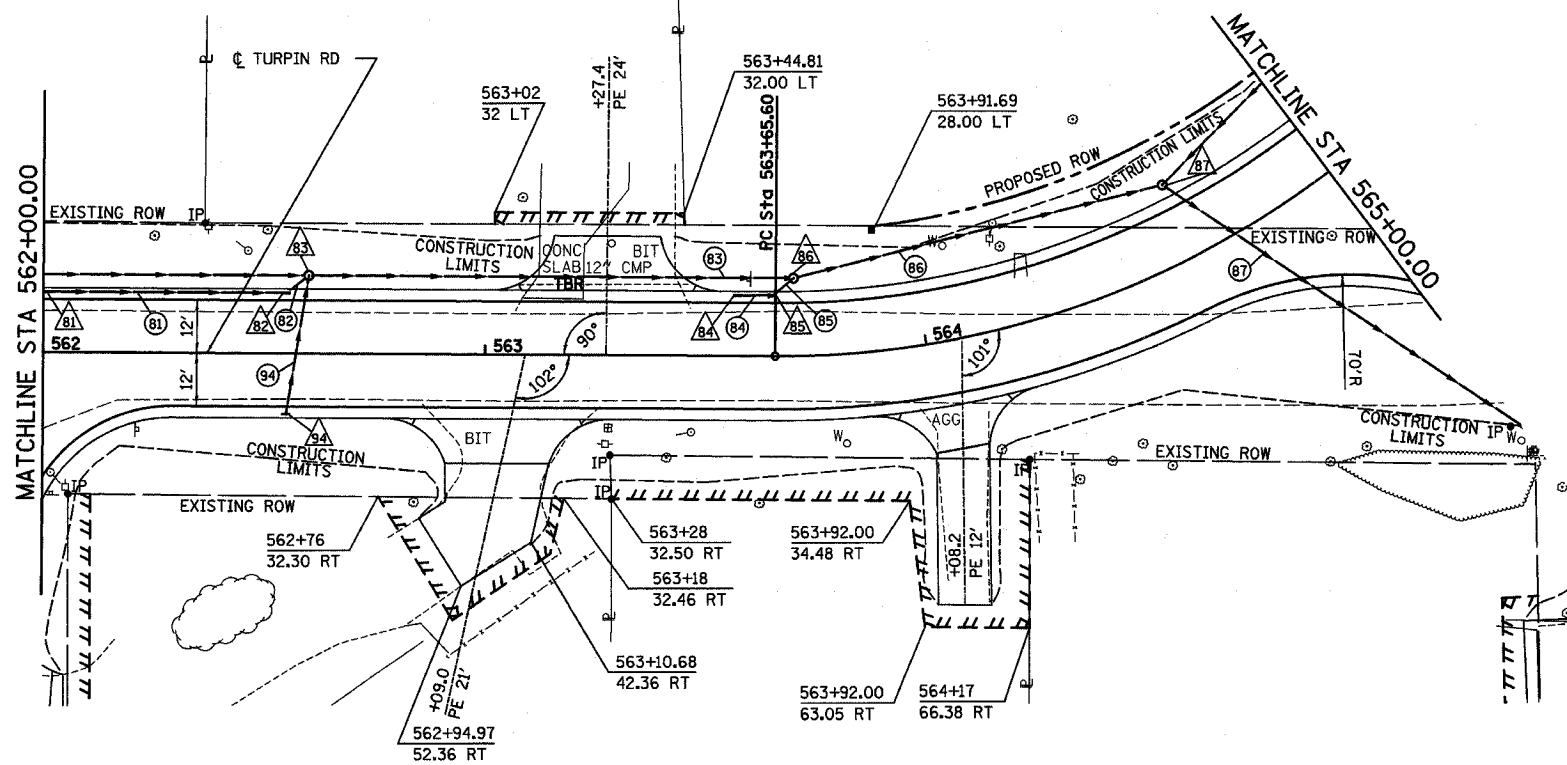
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	31
STA.		TO STA.		
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		
* 02-00175-00-PV				

PLAN	SURVEYED	DATE
NOTEBOOK	ALIGNED	CHECKED
NO.	RT. OF WAY	CHECKED

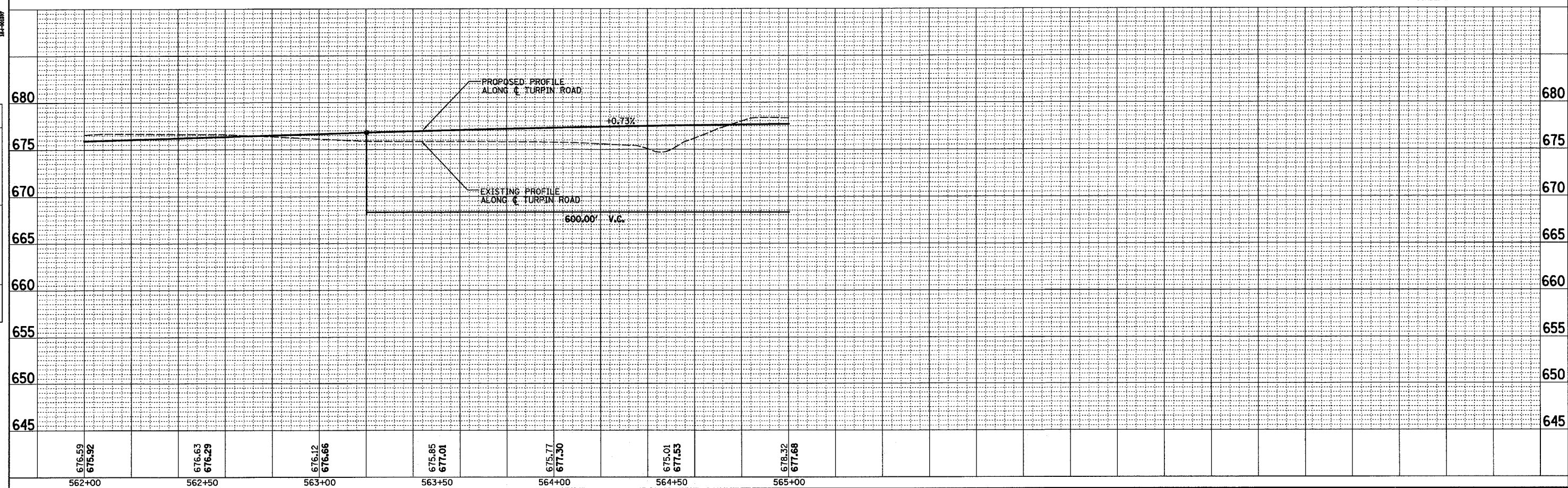
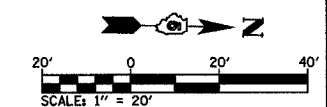
DECATUR
0171 425-4844
CHICAGO
0770 714-0050

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
14-0007

PROFILE	SURVEYED	DATE
NOTEBOOK	GRADES	CHECKED
NO.	STRUCTURE	NOTATIONS
	OR'D	

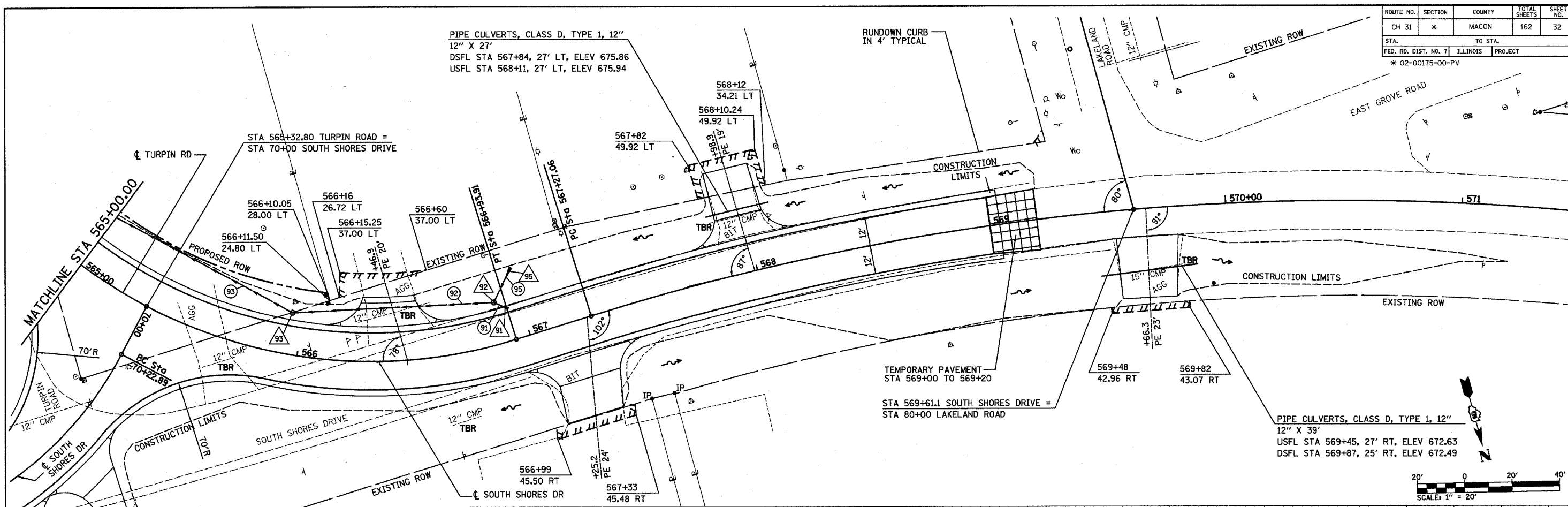


PROP. CURVE TURPIN-4
 PI STA. = 565+77.00
 $\Delta = 91^\circ 45' 36''$ (LT)
 $D = 27^\circ 56' 57''$
 $R = 205.00'$
 $T = 211.40'$
 $L = 328.31'$
 $E = 89.47'$
 $e = -4.00\%$
 P.C. STA = 563+65.60
 P.T. STA = 566+93.91
 FOR S.E. TRANSITIONS SEE
 SUPERELEVATION TRANSITION DETAILS



STA 562+00 TO STA 565+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	32
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
* 02-00175-00-PV				



PLAN

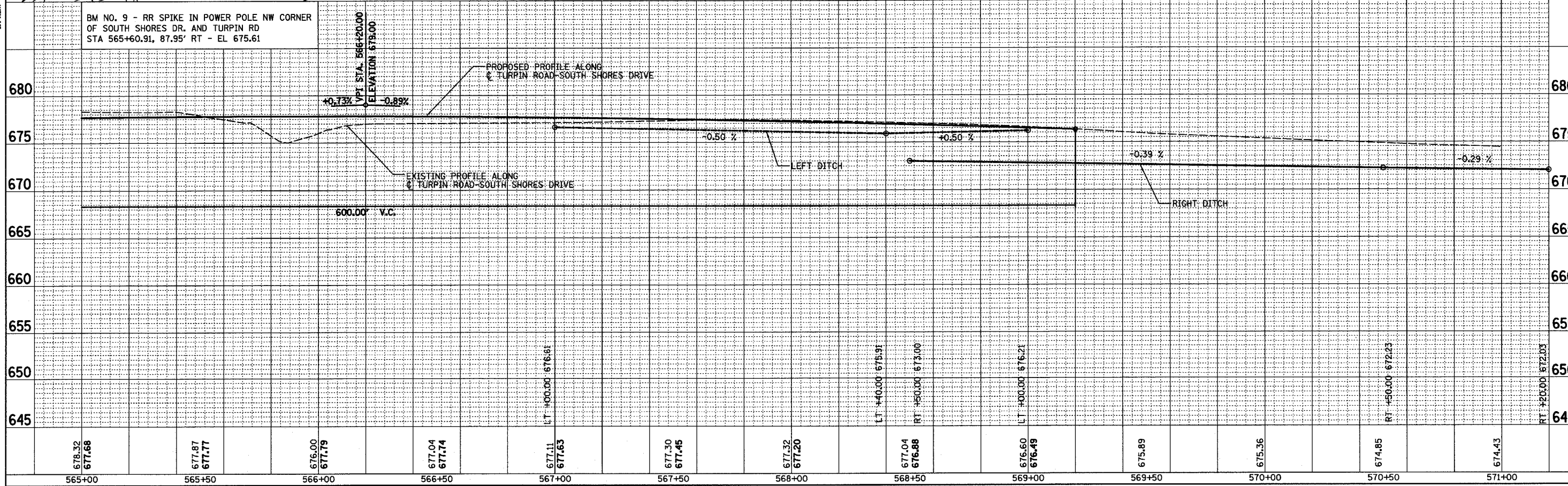
DATE	
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SURVEYED	
NOTEBOOK	
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RT. OF WAY	
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DECATUR
 017 429-8844
 CHICAGO
 079 714-0060

ROMER L. CHASTAIN & ASSOCIATES LLP
 CONSULTING ENGINEERS
 144-0087

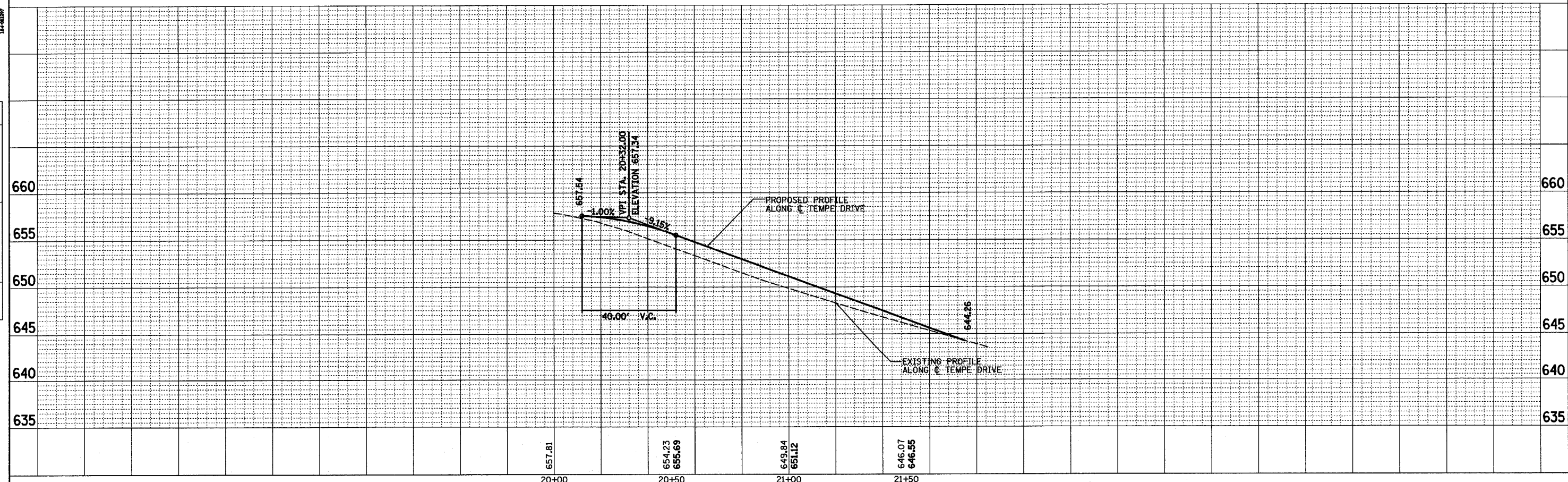
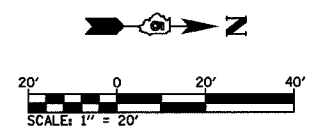
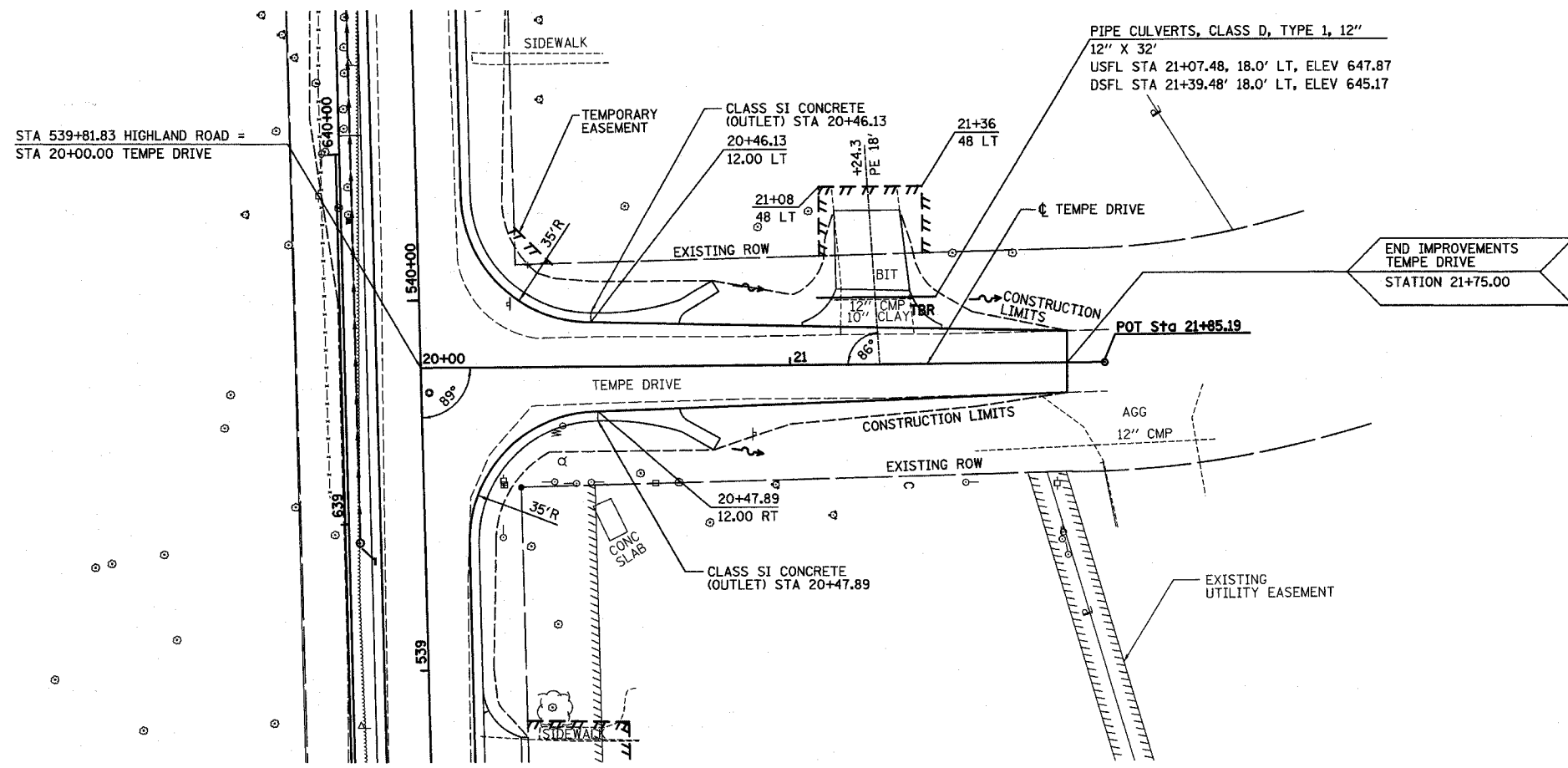
PROFILE

DATE	
BY	
SURVEYED	
NOTEBOOK	
GRADES	
CHECKED	
BM'S	
NOTED	
STRUCTURE	
NOTATIONS	
CHKD	
NO.	



STA 565+00 TO STA 571+00

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	33
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
* 02-00175-00-PV				



STA 20+00 TO STA 21+75 TEMPE DRIVE

PLAN

DATE	BY
SURVEYED	
NOTED	
ALIGNED	
CHECKED	
RT. OF WAY CHECKED	
NO.	

DECATUR
 017 425-6644
 CHICAGO
 079 714-0060

HOMER L. CHASTAIN & ASSOCIATES, L.P.
 CONSULTING ENGINEERS
 34-4097

PROFILE

DATE	BY
SURVEYED	
NOTED	
CHECKED	
STRUCTURE NOTATIONS OK'D	
NO.	

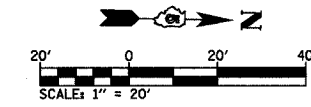
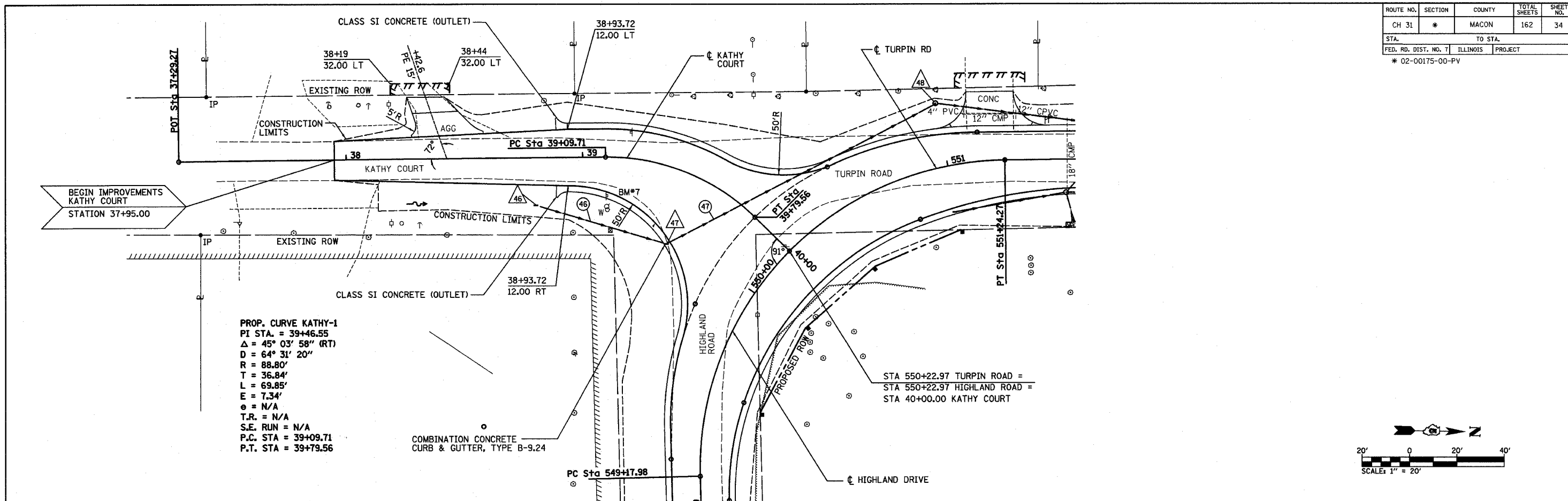
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	34
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
* 02-00175-00-PV				

PLAN	DATE
SURVEYED	
ALIGNED	
NOTED	
BY	
NO.	

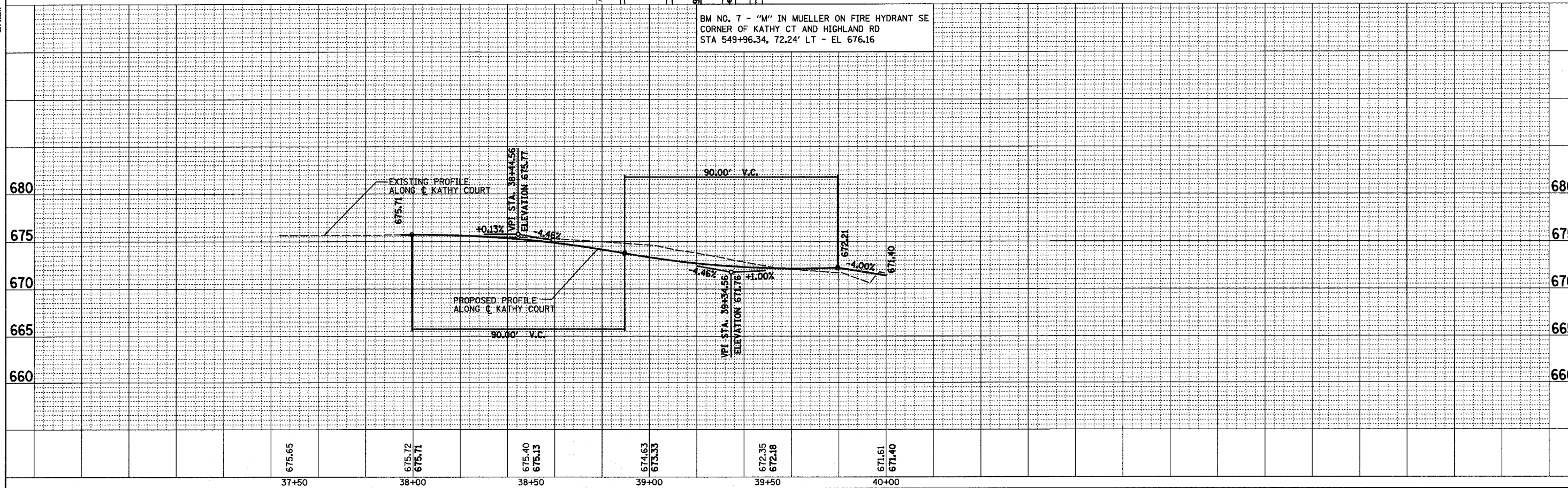
DECATUR
617-429-8444
CHICAGO
773-714-0050

ROMER L.
CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
84-0087

PROFILE	DATE
SURVEYED	
GRADES CHECKED	
NOTED	
BY	
NO.	

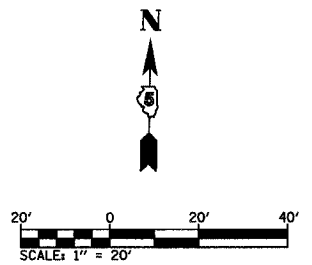
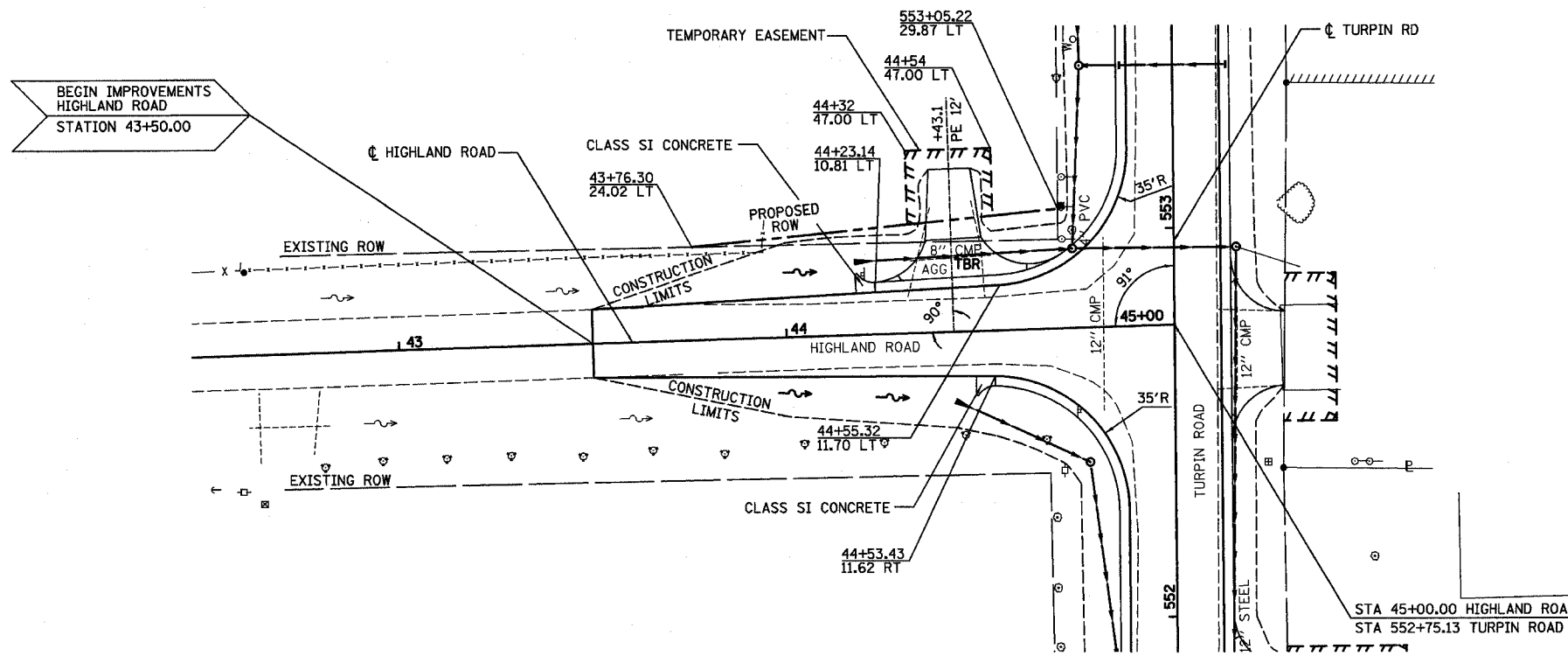


BM NO. 7 - "M" IN MUELLER ON FIRE HYDRANT SE CORNER OF KATHY CT AND HIGHLAND RD
 STA 549+96.34, 72.24' LT - EL 676.16



STA 37+95 TO STA 40+00 KATHY COURT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	35
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
* 02-00175-00-PV				



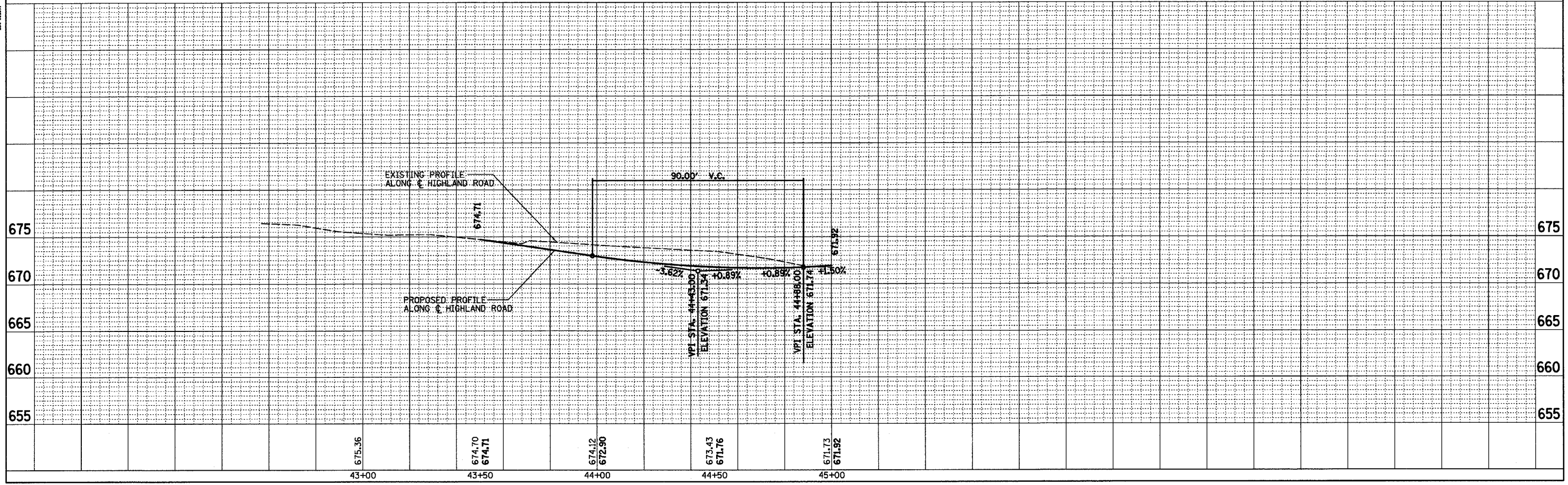
PLAN	DATE
BY	
NO. 1	

DRACATUR
0317-02-844
CHICAGO
0720 714-0660

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-9879

PROFILE	DATE
BY	
NO. 1	

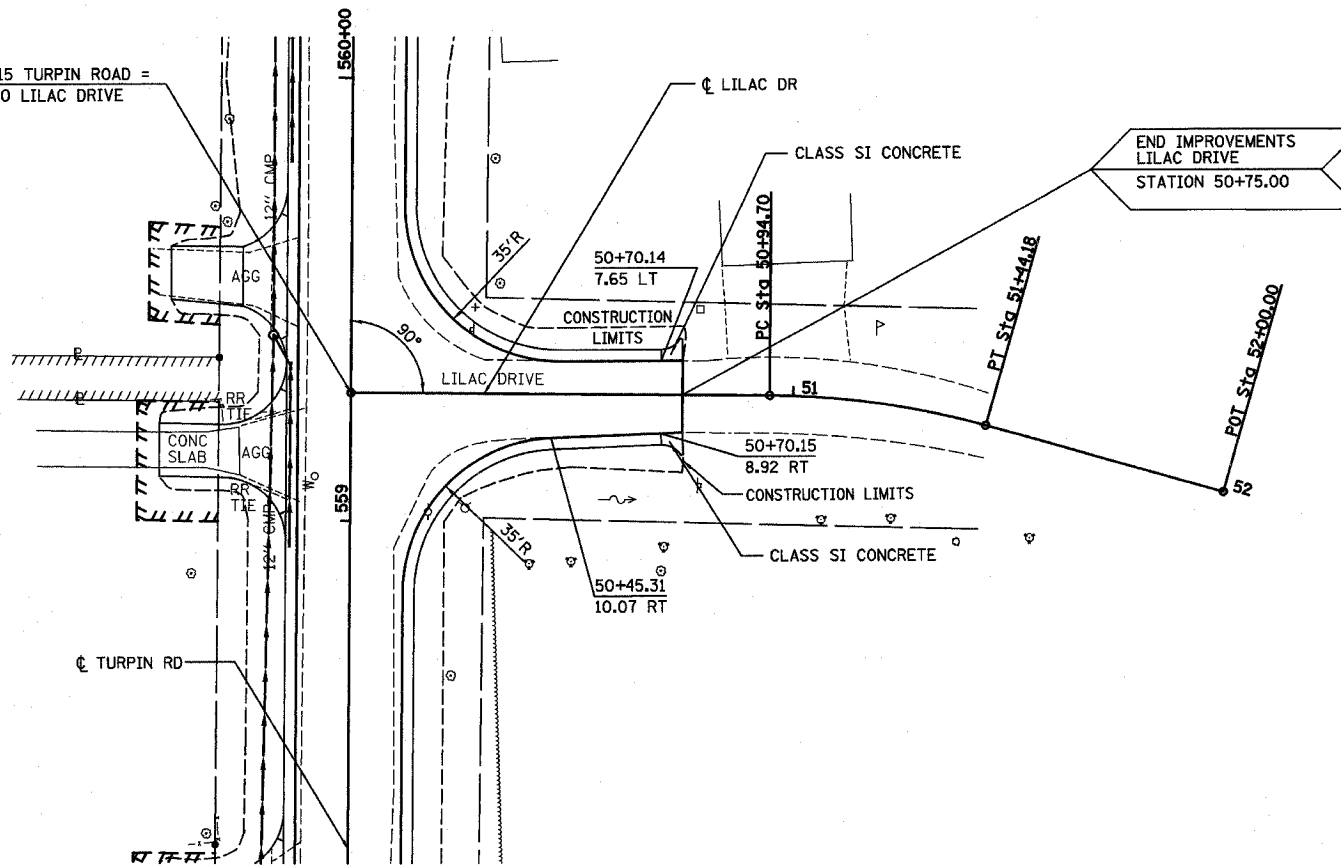
STRUCTURE NOTATIONS OK'D



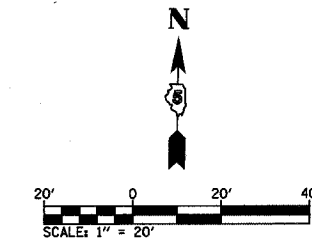
STA 43+50 TO STA 45+00 HIGHLAND DRIVE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	36
STA.		TO STA.		
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		
* 02-00175-00-PV				

STA 559+28.15 TURPIN ROAD =
STA 50+00.00 LILAC DRIVE



PROP. CURVE LILAC-1
 PI STA. = 51+19.59
 Δ = 15° 19' 21" (RT)
 D = 30° 58' 14"
 R = 185.00'
 T = 24.89'
 L = 49.47'
 E = 1.67'
 e = N/A
 T.R. = N/A
 S.E. RUN = N/A
 P.C. STA = 50+94.70
 P.T. STA = 51+44.18

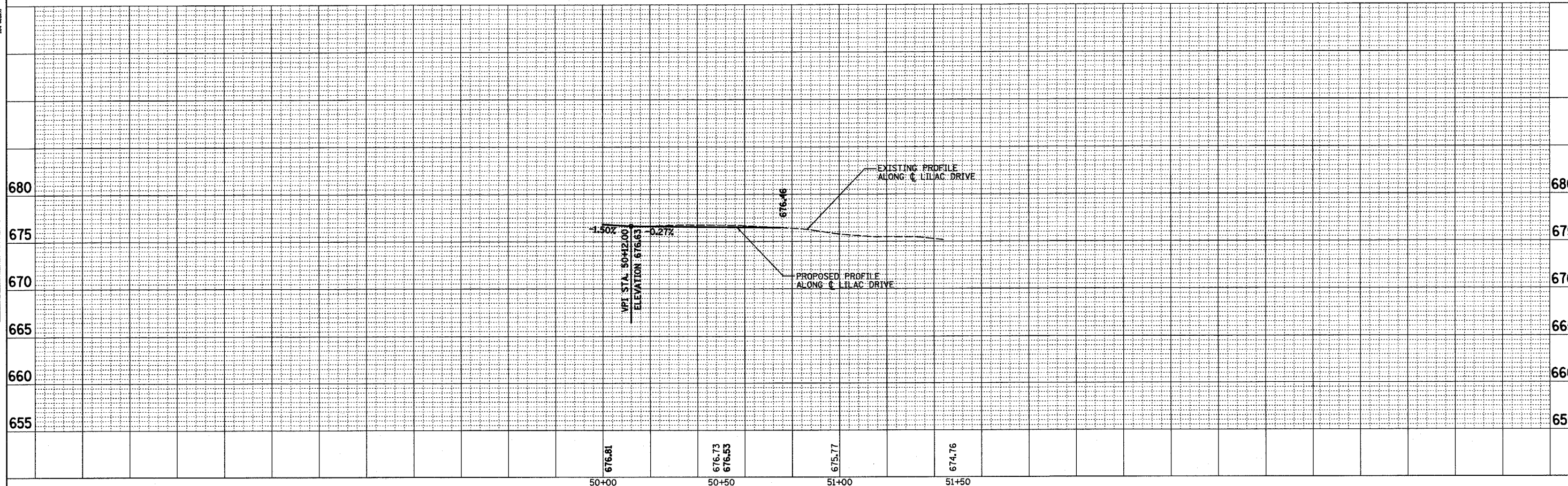


PLAN	DATE
SURVEYED	
NOTED	
NOTED	
NOTED	
NO.	

DECATUR
 917-423-8444
 CHICAGO
 0773 714-0650

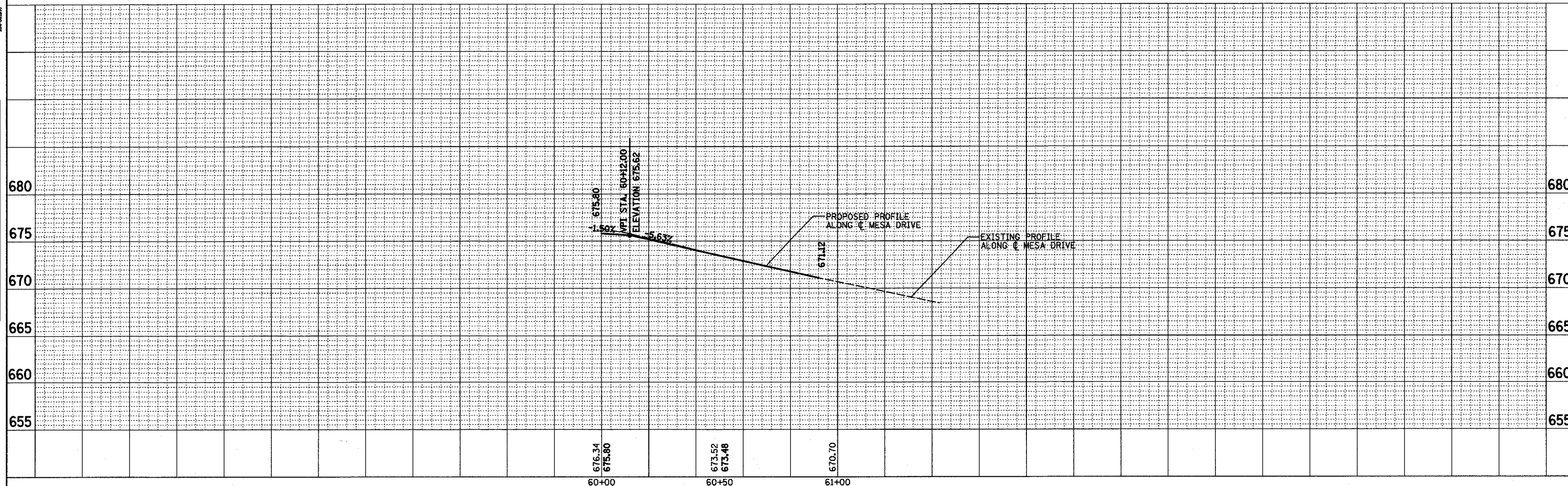
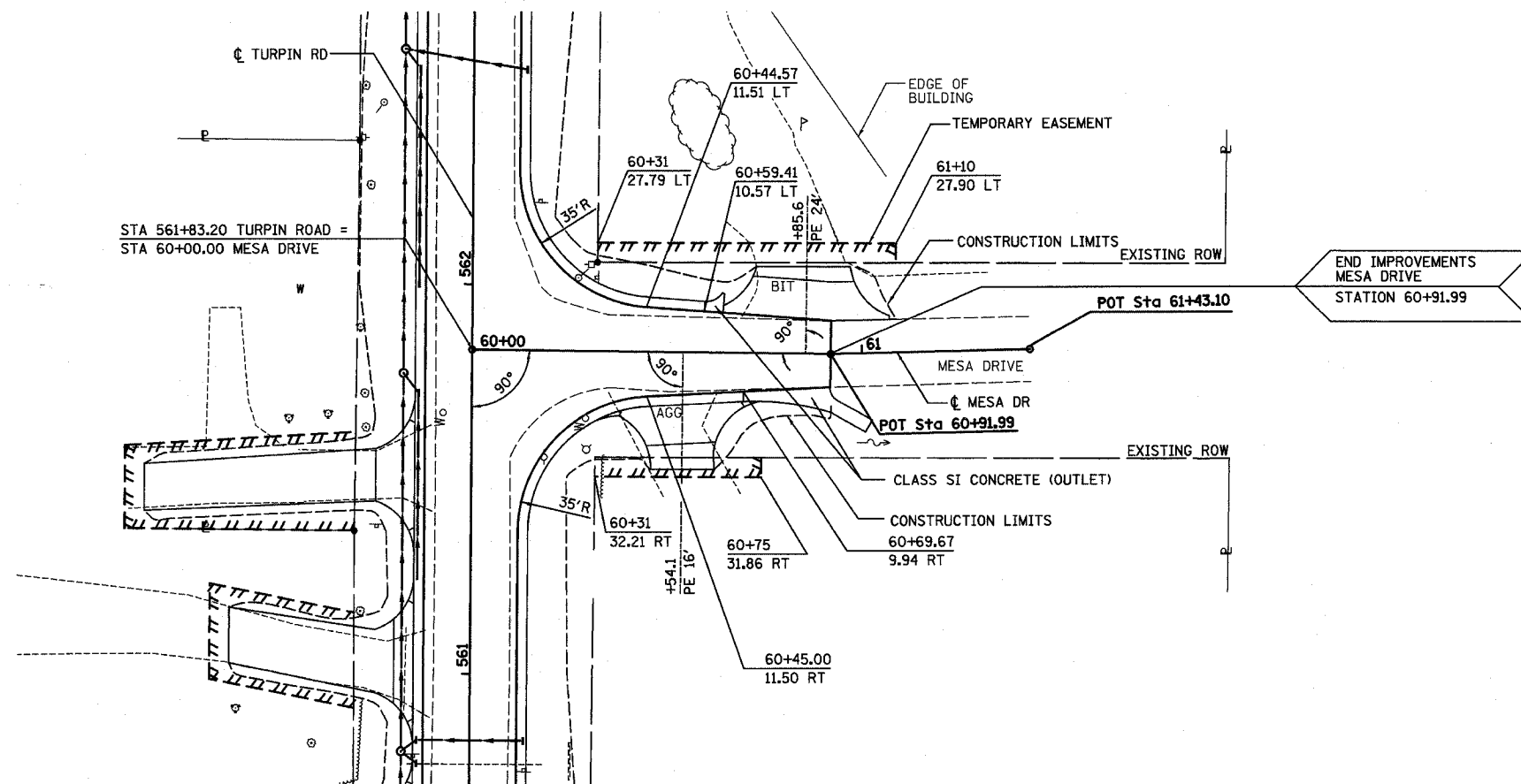
HOMER L.
CHASTAIN
 & ASSOCIATES, LLP
 CONSULTING ENGINEERS
 14-00007

PROFILE	DATE
SURVEYED	
NOTED	
NOTED	
NOTED	
NO.	



STA 50+00 TO STA 50+75 LILAC DRIVE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	37
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS		PROJECT
* 02-00175-00-PV				



STA 60+00 TO STA 60+91.99 MESA DRIVE

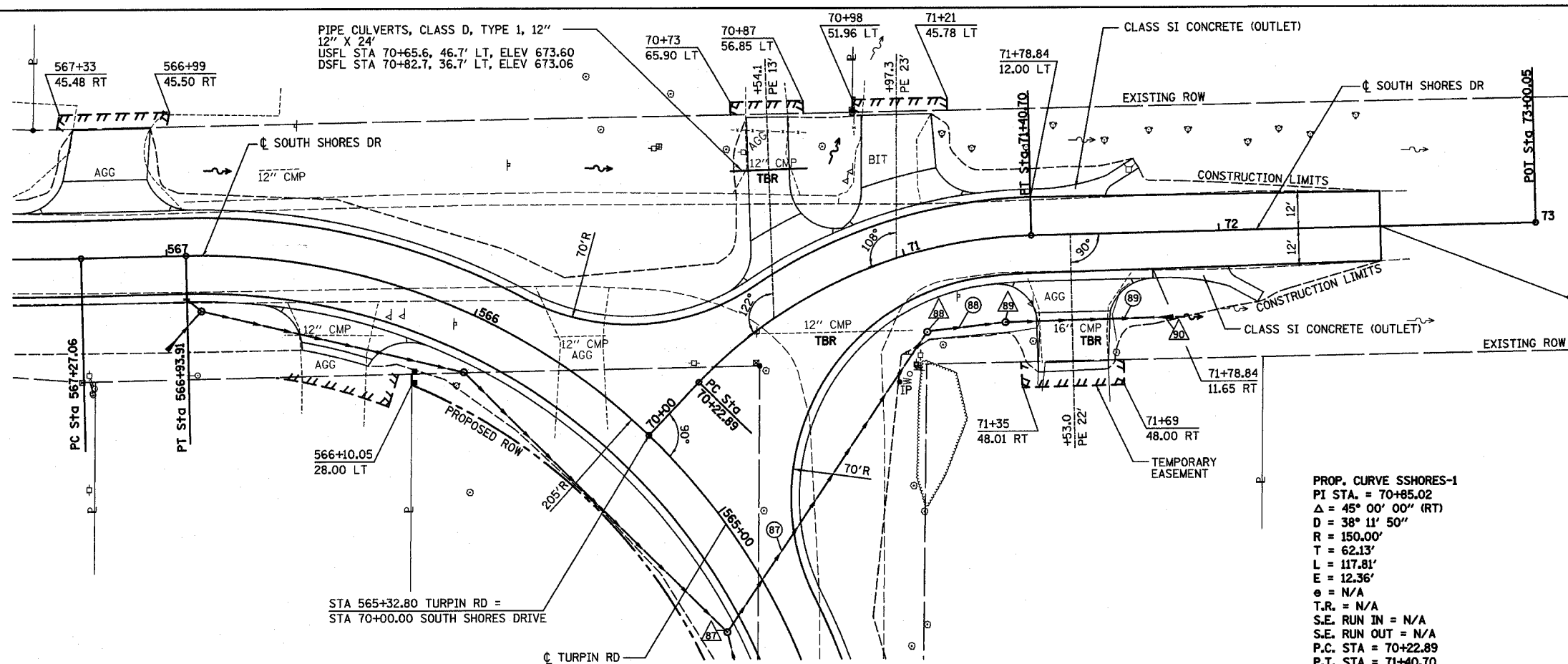
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SURVEYED	
PLOTTED	
NOTED	
NO.	

DECATUR
0317 42-844
CHICAGO
0773 714-0060

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEER

PROFILE	DATE
SURVEYED	
PLOTTED	
NOTED	
NO.	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	38
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
* 02-00175-00-PV				



PROP. CURVE SSHARES-1
 PI STA. = 70+85.02
 $\Delta = 45^\circ 00' 00''$ (RT)
 $D = 38^\circ 11' 50''$
 $R = 150.00'$
 $T = 62.13'$
 $L = 117.81'$
 $E = 12.36'$
 $e = N/A$
 $T.R. = N/A$
 $S.E. RUN IN = N/A$
 $S.E. RUN OUT = N/A$
 $P.C. STA = 70+22.89$
 $P.T. STA = 71+40.70$

PLAN

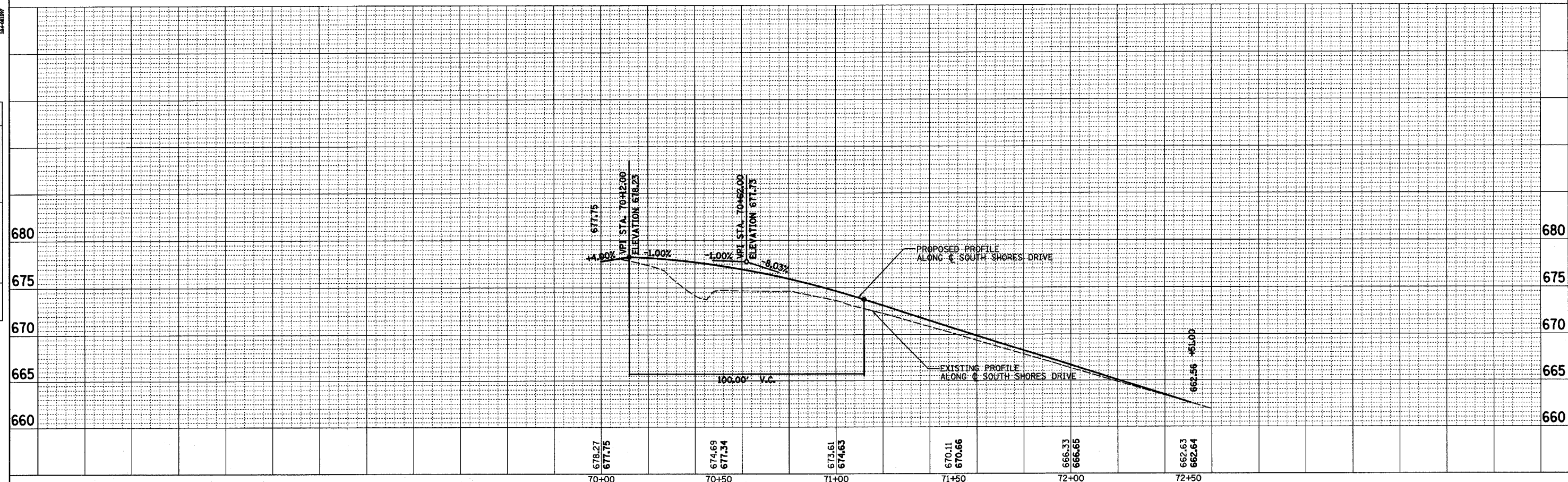
DATE	BY

DECATUR 017 429-8644
 CHICAGO 079 714-0060

CHASTAIN & ASSOCIATES LLP
 CONSULTING ENGINEERS

PROFILE

DATE	BY



STA 70+00 TO STA 72+51 SOUTH SHORES DRIVE

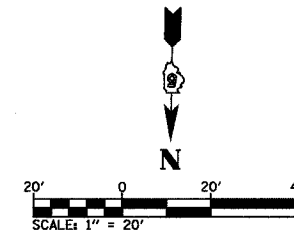
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	39
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		

* 02-00175-00-PV

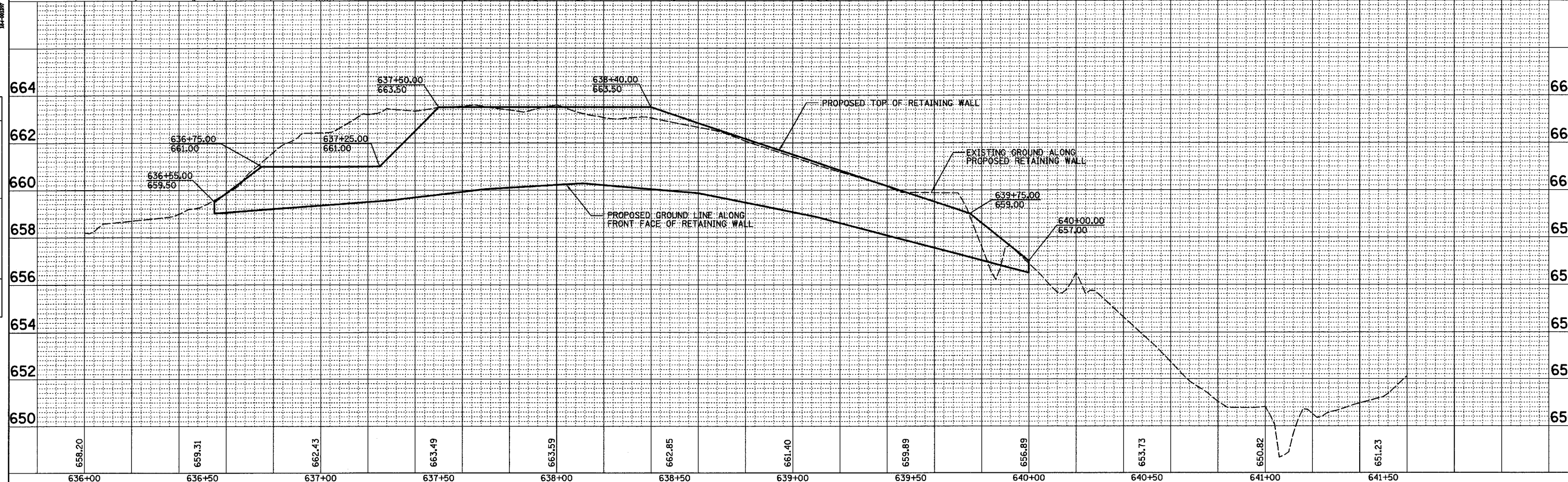
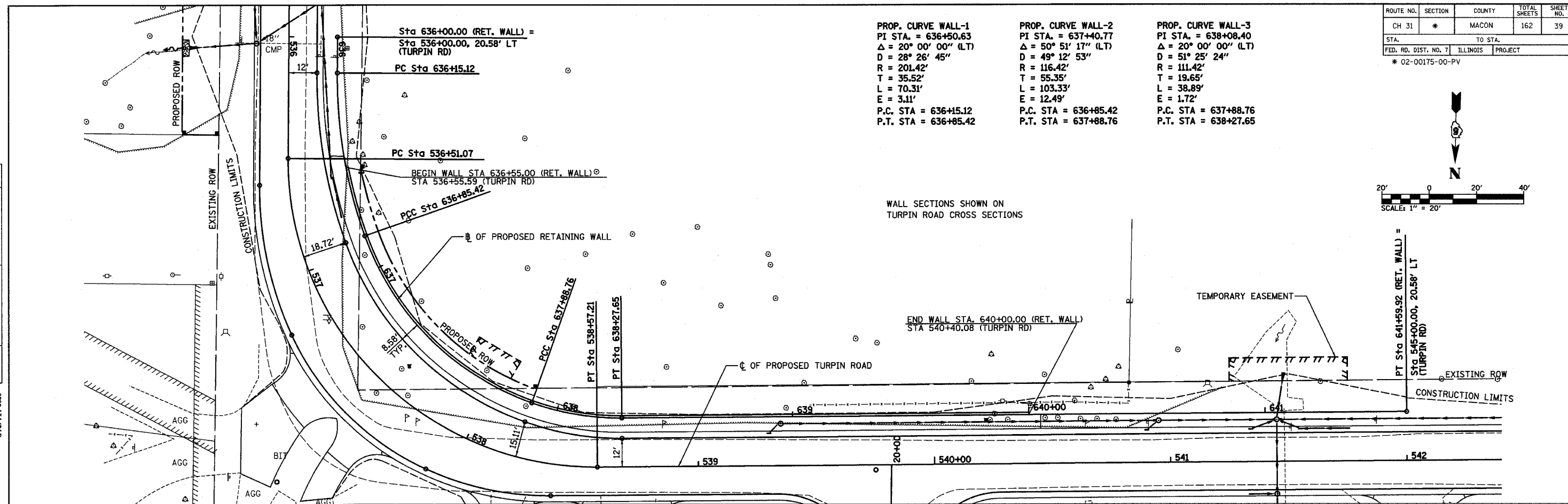
PROP. CURVE WALL-1
 PI STA. = 636+50.63
 $\Delta = 20^\circ 00' 00''$ (LT)
 $D = 28^\circ 26' 45''$
 $R = 201.42'$
 $T = 35.52'$
 $L = 70.31'$
 $E = 3.11'$
 P.C. STA = 636+15.12
 P.T. STA = 636+85.42

PROP. CURVE WALL-2
 PI STA. = 637+40.77
 $\Delta = 50^\circ 51' 17''$ (LT)
 $D = 49^\circ 12' 53''$
 $R = 116.42'$
 $T = 55.35'$
 $L = 103.33'$
 $E = 12.49'$
 P.C. STA = 636+85.42
 P.T. STA = 637+88.76

PROP. CURVE WALL-3
 PI STA. = 638+08.40
 $\Delta = 20^\circ 00' 00''$ (LT)
 $D = 51^\circ 25' 24''$
 $R = 111.42'$
 $T = 19.65'$
 $L = 38.89'$
 $E = 1.72'$
 P.C. STA = 637+88.76
 P.T. STA = 638+27.65



WALL SECTIONS SHOWN ON
 TURPIN ROAD CROSS SECTIONS



STA 636+00 TO STA 641+59.92 RETAINING WALL

PLAN

DATE	
BY	
SURVEYED	
NOTED	
ALIGNED	
CHECKED	
RT. OF WAY	
CHECKED	
NO.	

DECATUR 0317 429-8644
 CHICAGO 0779 714-0060

HOMER L. CHASTAIN & ASSOCIATES, L.P.
 CONSULTING ENGINEERS
 14-0007

PROFILE

DATE	
BY	
SURVEYED	
NOTED	
ALIGNED	
CHECKED	
STRUCTURE	
NOTATIONS	
CHECKED	
NO.	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	40
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	
* 02-00175-00-PV				

STRUCTURE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
STATION	533+00.00	533+00.00	534+50.00	534+45.00	534+90.00	534+85.00	535+85.00	535+35.00	535+30.00	536+03.00	536+05.00	536+60.00	536+80.00	539+30.00	539+35.00
OFFSET	23' LT	23' RT	13.7' LT	17.6' LT	13.7' LT	17.6' LT	13.7' RT	13.7' RT	17.6' RT	13.7' RT	42' RT	18' LT	19.9' LT	13.7' LT	17.6' LT
TYPE	12" PRC FES	12" PRC FES	INLET TY A	4' MH TY A	INLET TY A	4' MH TY A	4' MH TY A	INLET TY A	4' MH TY A	4' MH TY A	18" PRC FES	INLET TY A	INLET TY A	INLET TY A	4' MH TY A
IDOT STD. NO.	542301	542301	602301	602401	602301	602401	602401	602301	602401	602401	542301	602301	602301	602301	602401
FRAME & LID			TYPE 3	TY 1 CLOSED	TYPE 3	TY 1 CLOSED	TYPE 3	TYPE 3	TY 1 CLOSED	TYPE 3		TYPE 3	TYPE 3	TYPE 3	TY 1 CLOSED
IDOT STD. NO.			604006	604001	604006	604001	604006	604006	604001	604006		604006	604006	604006	604001
T.O.M. ELEV.			660.93	661.50	660.24	661.00	658.76	659.47	659.75	658.79		658.07	657.91	658.14	658.55
N FL				657.41		656.71	654.75		655.42			655.44			654.88
S FL	662.06	662.06		657.21		656.91	654.67		655.62		655.17		655.58	656.31	
E FL				657.83		657.33	654.47		657.64		651.75	651.50			
W FL			659.10			658.41				656.08	654.27				654.22
PIPE NO.	1	2	3	4	5	6	7	8	9	10		12	13	14	15
CLASS	A	A	A	A	A	A	A	A	A	A		A	A	A	A
TYPE	2	2	2	2	2	2	2	2	2	2		2	1	2	2
DIAMETER	12"	12"	12"	18"	12"	18"	18"	12"	12"	18"		12"	12"	12"	12"
LENGTH	138'	223'	4'	38'	4'	98'	30'	4'	70'	22'		72'	18'	4'	158'
SLOPE	3.21%	2.80%	38.00%	0.75%	32.00%	2.04%	0.63%	46.70%	0.34%	1.14%		0.65%	0.70%	42.80%	2.19%
STRUCTURE NO.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
STATION	540+90.00	540+95.00	541+48.00	541+45.00	541+34.00	541+34.00	541+45.00	541+25.00	541+55.00	541+75.00	543+05.00	543+10.00	543+10.00	545+55.00	545+55.00
OFFSET	13.7' LT	17.6' LT	37.5' LT	17.6' LT	13.7' LT	13.7' RT	13.7' RT	31.5' RT	13.7' LT	13.7' LT	17.6' LT	13.7' RT	13.7' LT	13.7' RT	13.7' LT
TYPE	INLET TY A	4' MH TY A	30" PRC FES	5' MH TY A	INLET TY A	INLET TY A	5' MH TY A	30" PRC FES	INLET TY A	INLET TY A	4' MH TY A	INLET TY A	INLET TY A	INLET TY A	INLET TY A
IDOT STD. NO.	602301	602401	542301	602401	602301	602301	602301	542301	602301	602301	602401	602301	602301	602301	602301
FRAME & LID	TYPE 3	TY 1 CLOSED		TYPE 3	TYPE 3	TYPE 3	TYPE 3		TYPE 3	TYPE 3	TY 1 CLOSED	TYPE 3	TYPE 3	TYPE 3	TYPE 3
IDOT STD. NO.	604006	604001		604006	604006	604006	604006		604006	604006	604001	604006	604006	604006	604006
T.O.M. ELEV.	653.93	654.35		654.10	653.55	653.55	653.57		653.63	653.88	659.50	659.21	659.21	667.42	667.42
N FL		650.68	648.50	647.50			647.10				655.83		656.50	664.75	664.75
S FL	652.10			647.70	651.72		647.30	647.00			651.30	651.55	650.11	656.88	665.09
E FL		650.68		649.18			649.90			651.45	655.83		656.38	665.09	664.59
W FL		650.02		649.22		651.22									
				NE&SE 651.20											
PIPE NO.	16	17	18	19	20	21	22		24	25	26	27	28	29	30
CLASS	A	A	A	A	A	A	A		A	A	A	A	A	A	A
TYPE	1	2	2	2	1	1	2		1	1	2	2	1	1	1
DIAMETER	12"	12"	30"	30"	12"	12"	30"		12"	12"	18"	12"	12"	12"	12"
LENGTH	4'	48'	13'	28'	10'	10'	10'		8'	20'	158'	26'	4'	26'	14'
SLOPE	42.50%	1.68%	3.64%	1.79%	6.00%	16.50%	0.63%		1.00%	0.75%	0.56%	1.46%	16.50%	1.31%	0.56%
STRUCTURE NO.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
STATION	545+70.00	545+84.00	546+14.00	546+38.00	546+43.00	546+65.00	547+00.00	547+20.00	547+05.00	547+45.00	547+50.00	547+95.00	548+00.00	548+45.00	548+50.00
OFFSET	17.6' LT	13.7' LT	13.7' LT	17.6' LT	13.7' LT	13.7' LT	17.6' LT	13.7' RT	13.7' LT	17.6' LT	13.7' LT	17.6' LT	13.7' LT	17.6' LT	13.7' LT
TYPE	4' MH TY A	INLET TY A	INLET TY A	4' MH TY A	INLET TY A	INLET TY A	4' MH TY A	INLET TY A	INLET TY A	4' MH TY A	INLET TY A	4' MH TY A	INLET TY A	4' MH TY A	INLET TY A
IDOT STD. NO.	602401	602301	602301	602401	602301	602301	602401	602301	602301	602401	602301	602401	602301	602401	602301
FRAME & LID	TY 1 CLOSED	TYPE 3	TYPE 3	TY 1 CLOSED	TYPE 3	TYPE 20	TY 1 CLOSED	TYPE 3	TYPE 3	TY 1 CLOSED	TYPE 3	TY 1 CLOSED	TYPE 3	TY 1 CLOSED	TYPE 3
IDOT STD. NO.	604001	604006	604006	604001	604006	604071	604001	604006	604006	604001	604006	604001	604006	604001	604006
T.O.M. ELEV.	668.00	667.51	667.58	668.20	667.67	666.71	668.65	668.36	668.16	669.30	668.88	670.30	669.91	671.35	670.93
N FL	NW 665.25			664.53			664.98		665.83	665.63		666.63		667.68	669.10
S FL	NE 664.33	665.32			665.34			666.03	665.83		667.05		668.08		
E FL	663.67		665.39	664.07		665.58	664.32			664.97		665.97		667.02	
W FL	663.77	665.32		664.07	665.44		664.52			665.63		666.63			
PIPE NO.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
CLASS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
TYPE	2	1	1	2	2	1	2	1	2	2	2	2	2	2	2
DIAMETER	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
LENGTH	262'	14'	30'	66'	4'	22'	62'	30'	4'	42'	4'	48'	4'	42'	4'
SLOPE	2.96%	0.50%	0.23%	0.44%	24.30%	0.64%	0.40%	0.59%	25.40%	1.00%	42.50%	0.68%	43.40%	0.78%	42.50%

REVISIONS			DRAWN BY DATE	
NO.	DATE	INITIALS	EMR	09/03
1			GLF	03/05
2				
3				
4				
5				
6				
7				
8				
9				
10				

DRAINAGE SCHEDULE	
TURPIN ROAD CONNECTOR (CH 31)	
MACON COUNTY, ILLINOIS	
	DECATUR (317) 422-8444 CHICAGO (773) 714-0050
BOOK NUMBER 471	PROJECT NO. 4805
SHEET NO.	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	41
FEDERAL DISTRICT		ILLINOIS	PROJECT	

* 02-00175-00-PV

STRUCTURE NO.	46*	47	48*	49*	50*	51	52*	53	54	55	57	58	59	60	
STATION	38+80.00	39+50.00	551+00.00	551+75.00	551+75.00	550+99.00	551+50.00	551+53.00	44+43.00	552+40.00	552+95.00	44+18.00	552+95.00	553+42.00	
OFFSET	20.1' RT	31.1' RT	27' LT	13.7' LT	26' LT	19.6' RT	14' RT	26.5' RT	22' RT	17.6' LT	16' RT	18.8' LT	26.2' LT	24' LT	
TYPE	INLET TY A	INLET TY A	4' MH TY A	5' MH TY A	INLET TY A	INLET TY A	5' MH TY A	24" PRC FES	12" PRC FES	4' MH TY A	4' MH TY A	12" PRC FES	4' MH TY A	4' MH TY A	
IDOT STD. NO.	602301	602301	602401/602601	602401/602601	602301	602301	602401/602601	542301	542301	602401/602601	602401	542301	602401/602601	602401/602601	
FRAME & LID	SPECIAL	TYPE 3	SPECIAL	TYPE 3	SPECIAL	TYPE 3	TYPE 3			TY 1 CLOSED	TY 1 CLOSED		TYPE 3	TY 1 CLOSED	
IDOT STD. NO.		604006		604006		604006	604006			604001	604001		604006	604001	
T. O. M. ELEV.	672.58	671.37	670.58	669.80	670.08	669.30	669.68			671.00	671.75		670.60	672.50	
N FL	670.75	669.04	668.25	667.59		666.97	666.80						668.48	669.77	
S FL		670.00	668.35	667.71			666.80			668.71			667.42	669.27	
E FL				666.98	667.42		666.80		670.19			671.00	668.32	669.37	
W FL				667.37			666.85	666.70		668.79		667.62	668.94		
PIPE NO.	46	47	48	49	50	51	52		54	55	56	57	58	59	60
CLASS	A	A	A	A	A	A	A		A	A	A	A	A	A	A
TYPE	1	1	1	1	1	1	1		1	1	2	1	1	1	1
DIAMETER	12"	12"	18"	24" RSE	18"	12"	24"		18"	18"	18"	18"	12"	12"	12"
LENGTH	54'	128'	78'	34'	10'	46'	6'		32'	62'	142'	40'	50'	44'	86'
SLOPE	1.25%	0.55%	0.72%	0.36%	0.60%	0.37%	1.00%		4.40%	1.72%	0.53%	1.75%	4.68%	1.68%	0.89%
STRUCTURE NO.	61	62	63*	64	65	66	67	68	69	70	71	72	73	74	75
STATION	553+42.00	553+42.00	554+30.00	555+28.00	555+38.00	555+38.00	556+87.00	558+95.00	559+35.00	559+42.00	559+82.00	560+18.00	560+25.00	560+77.00	560+83.00
OFFSET	13.7' RT	13.7' LT	26' LT	17.6' LT	13.7' LT	13.7' RT	22' LT	13.7' LT	13.7' LT	17.6' LT	13.7' LT	13.7' LT	17.6' LT	13.7' LT	13.7' RT
TYPE	INLET TY A	INLET TY A	INLET TY A	4' MH TY A	INLET TY A	INLET TY A	INLET TY A	INLET TY A	INLET TY A	INLET TY A	4' MH TY A	INLET TY A	INLET TY A	4' MH TY A	INLET TY A
IDOT STD. NO.	602301	602301	602301	602401/602601	602301	602301	602301	602301	602301	602401/602601	602301	602301	602401/602601	602301	602301
FRAME & LID	TYPE 3	TYPE 3	SPECIAL	TY 1 CLOSED	TYPE 3	TYPE 3	TY 1 CLOSED	TYPE 3	TYPE 3	TY 1 CLOSED	TYPE 3	TYPE 3	TY 1 CLOSED	TYPE 3	TYPE 3
IDOT STD. NO.	604006	604006		604001	604006	604006	604001	604006	604006	604001	604006	604006	604001	604006	604006
T. O. M. ELEV.	671.80	671.80	672.88	673.83	674.39	674.39	676.75	676.54	675.80	676.00	675.04	674.65	675.25	674.38	674.38
N FL			670.65				674.92	674.21					672.05		
S FL			670.55	671.00					673.47	674.33		672.32	672.50		
E FL		669.47		671.25	672.06					673.37		672.32	672.25		
W FL	669.61	669.47		672.06	672.06	672.06	676.51		673.47			672.32	672.25	672.05	672.19
PIPE NO.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
CLASS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
TYPE	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
DIAMETER	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
LENGTH	26'	8'	96'	10'	26'	254'	40'	8'	80'	36'	8'	52'	4'	26'	
SLOPE	33.33%	1.37%	0.36%	11.25%	0.54%	0.28%	1.85%	1.25%	0.81%	1.08%	0.88%	0.24%	2.50%	0.54%	
STRUCTURE NO.	76	77	78	79	80	81	82	83	84	85	86	87	88	89*	90
STATION	560+83.00	560+80.00	561+25.00	561+72.00	561+77.00	562+00.00	562+55.00	562+60.00	563+57.00	563+65.00	563+70.00	564+65.00	71+00.00	71+30.00	71+85.00
OFFSET	13.7' LT	17.6' LT	13.7' LT	13.7' LT	17.6' LT	13.7' LT	13.7' LT	17.6' LT	13.7' LT	13.7' LT	17.6' LT	17.6' LT	25' RT	27' RT	27' RT
TYPE	INLET TY A	4' MH TY A	INLET TY A	INLET TY A	4' MH TY A	INLET TY A	INLET TY A	4' MH TY A	INLET TY A	INLET TY A	4' MH TY A	4' MH TY A	4' MH TY A	4' MH TY A	18" PRC FES
IDOT STD. NO.	602301	602401/602601	602301	602301	602401	602301	602301	602401	602301	602301	602401	602401	602401	602401	542301
FRAME & LID	TYPE 3	TY 8 SPECIAL	TYPE 3	TYPE 3	TY 1 CLOSED	TYPE 3	TYPE 3	TY 1 CLOSED	TYPE 3	TYPE 3	TY 1 CLOSED	TY 1 CLOSED	TY 1 CLOSED	SPECIAL	
IDOT STD. NO.	604006		604006	604006	604001	604006	604006	604001	604006	604006	604001	604001	604001	604001	
T. O. M. ELEV.	674.38	674.25	674.49	674.82	675.15	675.02	675.43	675.90	676.05	676.10	676.25	676.75	671.97	670.03	
N FL		671.92	672.30		670.82	672.69		669.88	673.72		668.75	667.96			
S FL		671.92		671.80	671.00		672.2	670.08		673.47	668.95	668.16	667.16		
E FL	672.05	NE 672.00		671.95			672.00		672.00		673.10	666.96	665.99	665.99	
W FL	672.05	SE 672.00		671.80			672.10	(E) 671.88		673.27		672.00	666.19	665.50	
PIPE NO.	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
CLASS	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
TYPE	1	2	1	1	2	1	2	2	1	1	2	2	2	2	2
DIAMETER	12"	12"	12"	12"	12"	12"	12"	18"	12"	12"	18"	18"	18"	18"	18"
LENGTH	4'	94'	46'	6'	80'	54'	6'	108'	8'	6'	84'	112'	22'	48'	
SLOPE	2.50%	0.95%	1.06%	0.83%	0.89%	0.89%	0.83%	0.85%	3.13%	2.83%	0.72%	0.70%	3.21%	0.89%	

*SEE MISCELLANEOUS DETAIL SHEET

REVISIONS				DRAWN BY DATE	
NO.	DATE	INITIALS	EMR	09/03	
1			GLF	03/05	
2					
3					
4					
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8					
9					
10					

DRAINAGE SCHEDULE	
TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	
HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-081897	DECATUR 617-422-8544 CHICAGO 773-714-0050
PROJECT No. 4805	SHEET No. 41

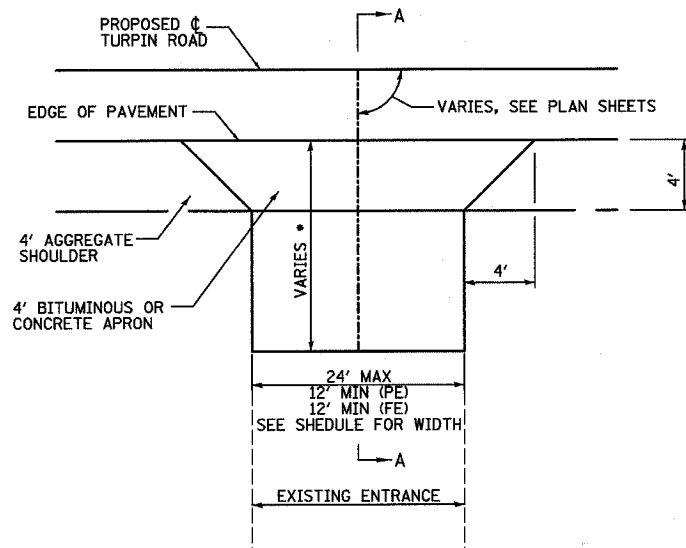
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	42
FEDERAL DIST. NO.		ILLINOIS	PROJECT	

* 02-00175-00-PV

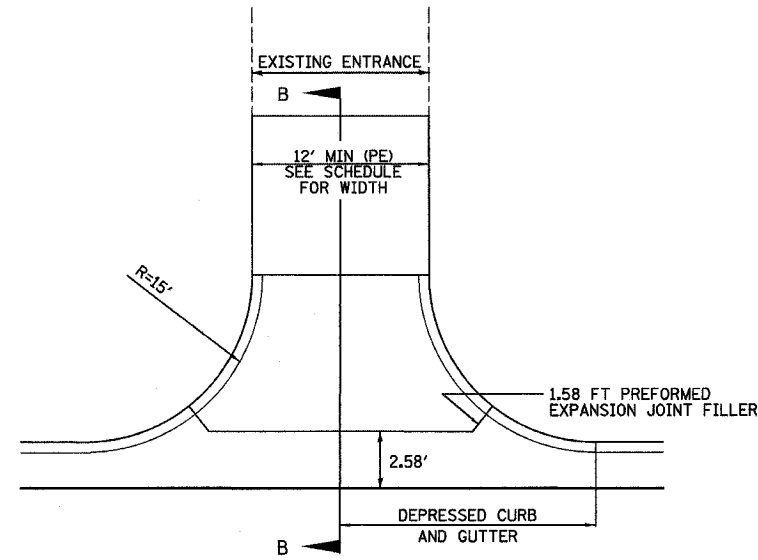
STRUCTURE NO.	91	92	93	94	95
STATION	566+94.00	566+89.00	565+95.00	562+55.00	567+00.00
OFFSET	13.7' LT	17.6' LT	17.6' LT	13.7' RT	29' LT
TYPE	INLET TY A	4' MH TY A	4' MH TY A	INLET TY A	12" PRC FES
IDOT STD. NO.	602301	602401/602601	602401/602601	602301	542301
FRAME & LID	TYPE 3	TYPE 1 CLOSED	TYPE 1 CLOSED	TYPE 3	
IDOT STD. NO.	604006	604001	604001	604006	
T. O. M. ELEV.	676.76	677.30	677.00	675.43	
N FL		674.24			
S FL	674.43	674.24			
E FL		674.14	673.17		675.61
W FL			673.27	672.20	
PIPE NO.	91	92	93	94	95
CLASS	A	A	A	A	A
TYPE	1	1	1	1	1
DIAMETER	12"	12"	12"	12"	12"
LENGTH	6'	87'	117'	32'	10'
SLOPE	3.17%	1.00%	1.00%	1.00%	13.7%

DRAINAGE SCHEDULE			
REVISIONS NO. DATE INITIALS		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	
		DRAWN BY DATE EMR 09/03	
		CHECKED BY DATE GLF 03/05	
		BOOK NUMBER 471	
		PROJECT No. 4805	
		SHEET No.	
		HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 104-001397	
		DECATUR (317) 422-8544 CHICAGO (773) 714-0050	

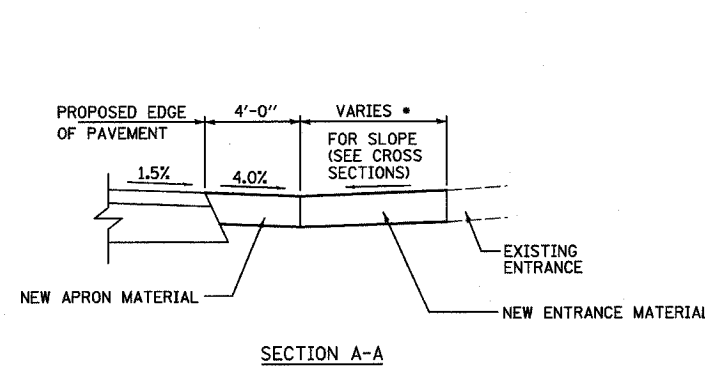
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	43
FED. ROAD DIST. NO.		LLINOIS	PROJECT	
* 02-00175-00-PV				



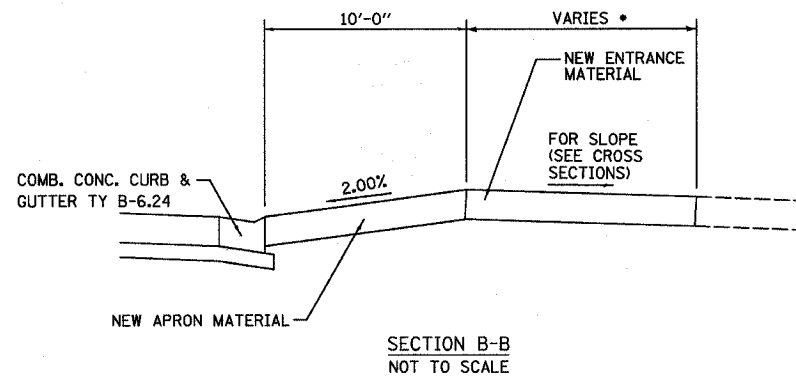
TYPICAL PRIVATE OR FIELD ENTRANCE
ADJACENT TO AGGREGATE SHOULDERS



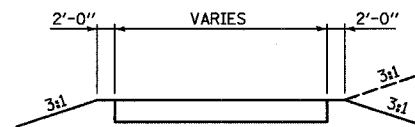
TYPICAL PRIVATE OR FIELD ENTRANCE
ADJACENT TO COMBINATION CONCRETE CURB & GUTTER



SECTION A-A



SECTION B-B
NOT TO SCALE



TYPICAL ENTRANCE SECTION

STATION	TYPE	EXIST MATERIAL	WIDTH	LENGTH
514+05.0	LT	F. E.	GRASS/AGG	16 18.6
514+06.4	RT	F. E.	GRASS/AGG	16 13.7
524+16.7	LT	P. E.	AGG	16 20.6
527+19.5	RT	F. E.	AGG	12 17.5
528+62.8	RT	P. E.	BIT	12 18.8
534+20.2	RT	P. E.	BIT	12 3.7
534+67.8	RT	P. E.	BIT	18 3.6
535+13.7	LT	P. E.	AGG	16 11.9
535+56.5	RT	F. E.	GRASS/AGG	15 4.4
537+41.4	RT	P. E.	OIL & CHIP	23 VARIES
537+63.7	RT	P. E.	OIL & CHIP	12 VARIES
538+22.7	RT	P. E.	AGG	12 VARIES
538+70.7	RT	P. E.	AGG	22 1.9
542+03.7	RT	P. E.	AGG	24 25.5
542+84.1	LT	P. E.	AGG	12 8.4
543+00.1	RT	P. E.	AGG	16 1.3
543+45.2	RT	P. E.	AGG	12 1.3
544+64.9	RT	P. E.	AGG	12 7.7
544+95.5	LT	P. E.	AGG/CONC	15 34.3
545+73.9	RT	P. E.	AGG	12 6.4
546+73.4	LT	P. E.	BIT	17 34.0
546+95.4	RT	P. E.	AGG	13 42.6
548+16.5	RT	P. E.	AGG	12 1.4
548+73.5	LT	P. E.	AGG	16 34.5
551+17.9	LT	P. E.	CONC	20 4.5
551+80.8	RT	P. E.	AGG/BIT	15 27.9
552+67.7	RT	P. E.	CONC	19 3.7
553+72.2	LT	P. E.	BIT/CONC	14 13.4
553+85.4	RT	P. E.	AGG	15 19.0
555+06.9	LT	P. E.	AGG	17 11.4
555+97.2	LT	P. E.	AGG/CONC	12 10.4
556+22.7	RT	P. E.	AGG	16 2.5
556+74.0	RT	P. E.	AGG	12 3.2
556+96.8	LT	P. E.	AGG/CONC	24 19.0
557+34.8	LT	P. E.	AGG/BRICK/CONC	24 25.4
558+15	LT	P. E.	AGG	12 19.0
559+15.6	LT	P. E.	AGG/CONC	12 18.7
559+53.5	LT	P. E.	AGG	12 16.3
560+51.4	LT	P. E.	AGG	18 3.8
560+97.5	LT	P. E.	AGG	14 40.0
561+52.7	LT	P. E.	AGG	12 59.6
563+09.0	RT	P. E.	BIT	21 26.0
563+27.4	LT	P. E.	BIT/CONC	24 2.1
564+08.2	RT	P. E.	AGG	12 34.3
566+46.9	LT	P. E.	AGG	20 2.8
567+25.2	RT	P. E.	BIT	24 16.6
567+98.9	LT	P. E.	BIT	19 20.5
569+66.3	RT	P. E.	AGG	23 13.2
TEMPE DRIVE				
21+24.3	LT	P. E.	BIT	18 21.3
KATHY COURT				
38+42.6	LT	P. E.	AGG	15 7.3
HIGHLAND ROAD				
44+43.1	LT	P. E.	AGG	12 18.1
MESA DRIVE				
60+54.1	RT	P. E.	AGG	16 7.0
60+85.6	LT	P. E.	BIT	24 0.8
SOUTH SHORES DR				
70+54.1	LT	P. E.	AGG	13 36.6
70+97.3	LT	P. E.	BIT	23 20.1
71+53.0	RT	P. E.	AGG	22 18.6

TYPE OF ENTRANCE	EXISTING MATERIAL	NEW APRON MATERIAL		NEW ENTRANCE MATERIAL		
		PCC DRIVEWAY PAVEMENT (6")	INCIDENTAL BIT. CONC. SURFACING (6")	PCC DRIVEWAY PAVEMENT (6")	INCIDENTAL BIT. CONC. SURFACING (6")	AGGREGATE SURFACE COURSE TYPE B (6")
FIELD	GRASS		X			X
	AGGREGATE		X			X
PRIVATE	CONCRETE	X		X		
	O&C/BITUMINOUS	X			X	
	AGGREGATE	X				X

"X" DENOTES TYPE OF ENTRANCE MATERIALS TO BE CONSTRUCTED

NOTES

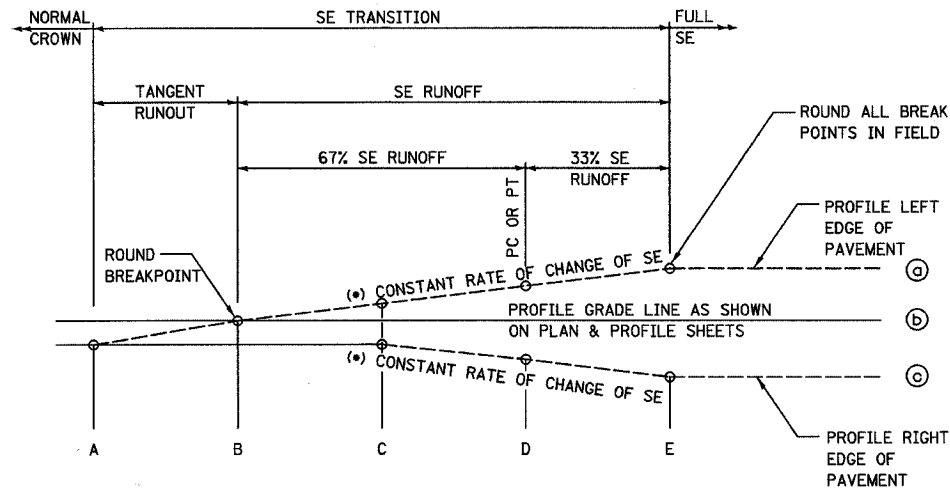
- SEE ENTRANCE/SIDE ROAD SCHEDULE FOR WIDTH AND LENGTH
- SEE PLANS AND SCHEDULE ABOVE FOR EXISTING SURFACE TYPE
- SAW-CUT EXISTING PAVED ENTRANCES FULL-DEPTH.
- FOR ENTRANCE QUANTITY SCHEDULE, SEE SCHEDULES OF QUANTITIES

REVISIONS			ENTRANCE DETAILS		DRAWN BY DATE
NO.	DATE	INITIALS	TURPIN ROAD CONNECTOR (CH 31)		LBM 05/03
1			MACON COUNTY, ILLINOIS		CHECKED BY DATE GLF 03/05
2					BOOK NUMBER 471
3					PROJECT No. 4805
4					SHEET No.
5					
6					
7					
8					
9					
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HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-00197

DECATUR 017 422-8544
CHICAGO 0773 714-0050

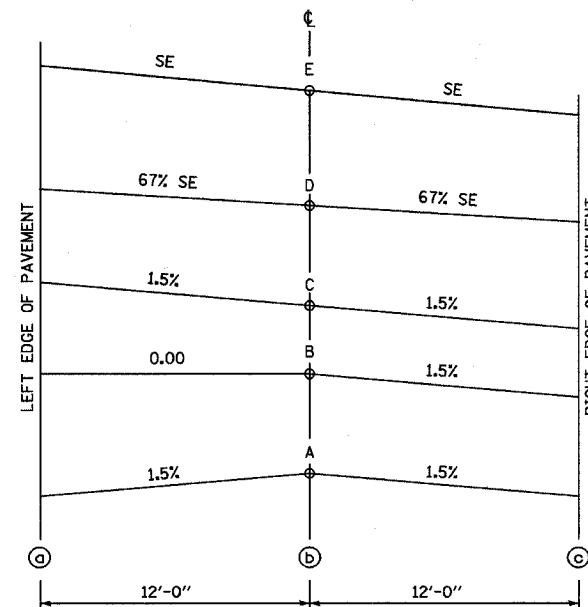
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	44
FED. ROAD DIST. NO.	LLINGS	PROJECT		
* 02-00175-00-PV				



TYPICAL PROFILE - SE TRANSITION

(*) RATE	
TURPIN - 2	.0064
TURPIN - 3	.0064
TURPIN - 4	.006
TURPIN - 5	.0046

NOTE:
DETAILS SHOWN FOR CURVE TO RT
REVERSE FOR CURVE LT



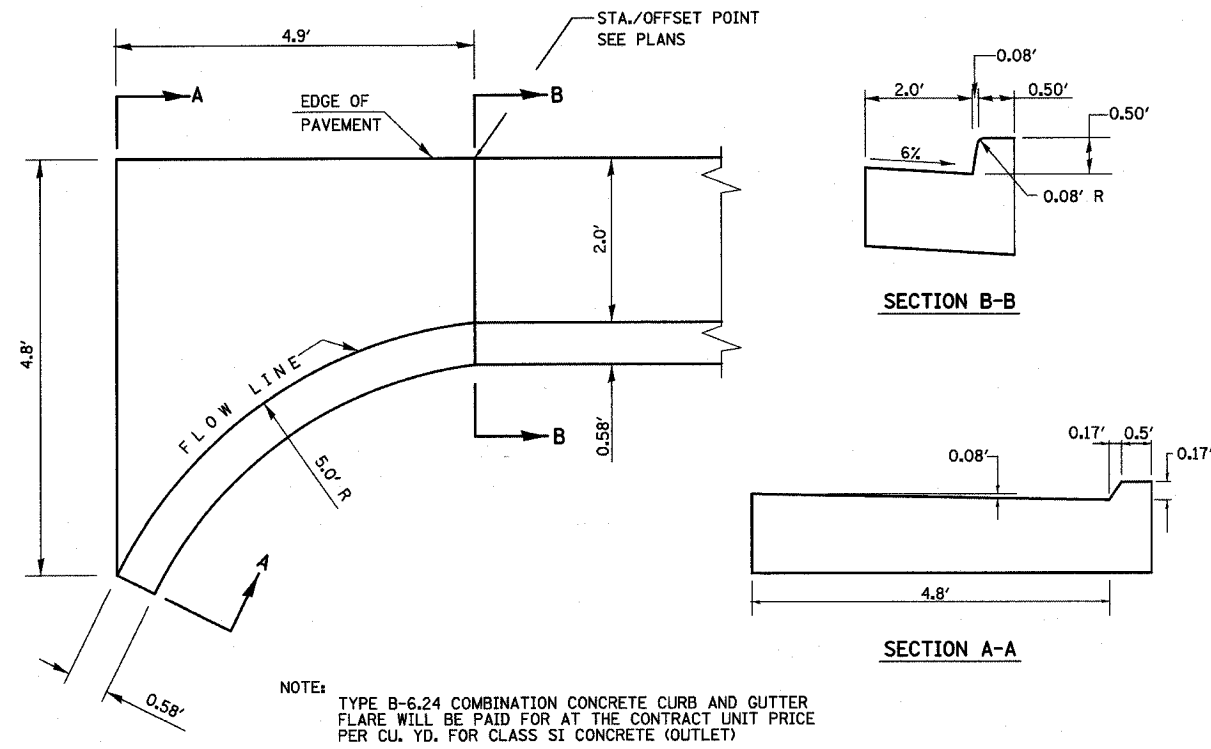
TYPICAL CROSS SECTION - SE TRANSITION

TYPICAL PROFILE - SE TRANSITION							
CURVE	EX SE	REQ'D SE	A	B	C	D	E
2	LT	4.00%	535+73	536+01	536+29	PC 536+51.07	536+76
			539+35	539+07	538+79	PT 538+57.21	538+32
3	RT	4.00%	548+40	548+68	548+96	PC 549+17.98	549+43
			552+03	551+74	551+46	PT 551+24.27	550+99
4	LT	4.00%	562+82	563+12	563+42	PC 563+65.60	563+99
			-----	① 566+99.3	-----	PT 566+93.91	565+97.65
5	RT	5.80%	-----	① 566+99.3	-----	PC 567+27.06	568+46.70

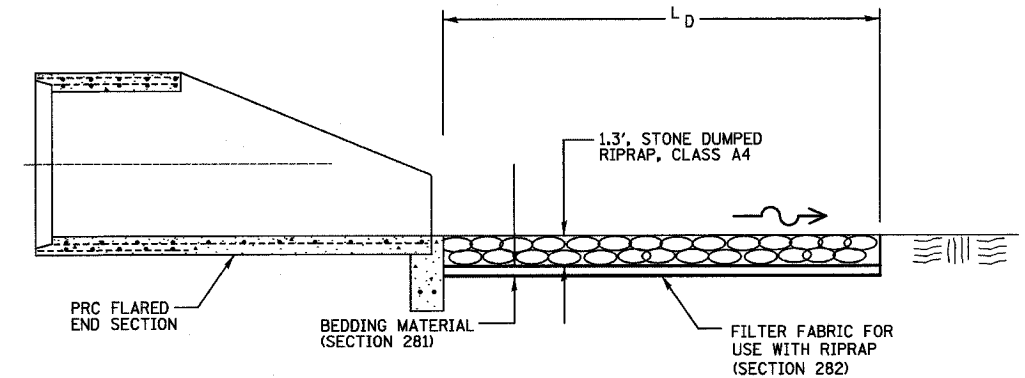
① BOTH LANES AT 0% SLOPE

SUPERELEVATION TRANSITION DETAILS			
REVISIONS NO. DATE INITIALS		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	
DRAWN BY DATE LBM 05/03		CHECKED BY DATE DLF 03/05	
BOOK NUMBER 471		PROJECT No. 4805	
SHEET No.		SHEET No.	
HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-00197		DECATUR (317) 422-8544 CHICAGO (773) 714-0050	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	45
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		
* 02-00175-00-PV				

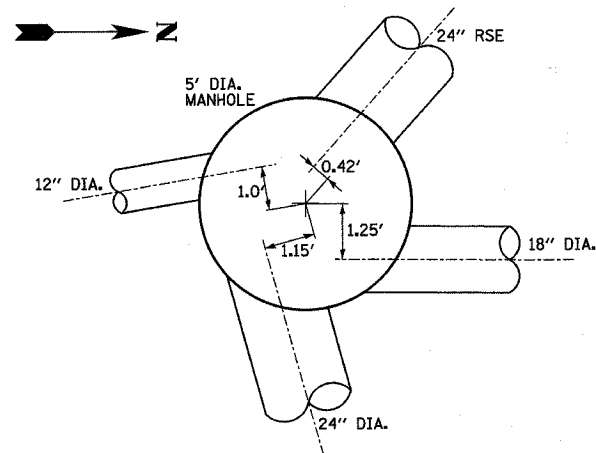


DETAIL OF FLARE FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

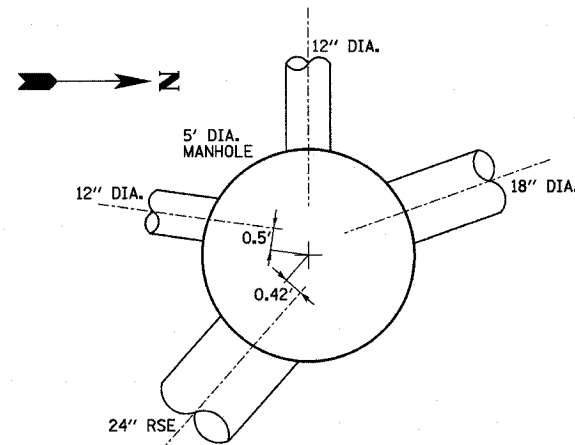


RIPRAP APRON DETAIL
NOT TO SCALE

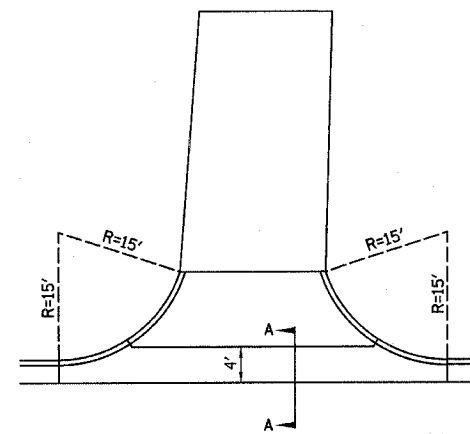
STATION	WIDTH	L _D	STONE DUMPED RIPRAP CLASS A4 (SQ Y)	FILTER FABRIC
TURPIN ROAD				
536+05 42' RT	3.5	3.0	1.2	1.2
541+45 31.5' RT	4.5	2.7	1.4	1.4
551+53 26.5' RT	4.0	2.4	1.1	1.1



52 MANHOLE DETAIL STA 551+50 14' RT
NOT TO SCALE

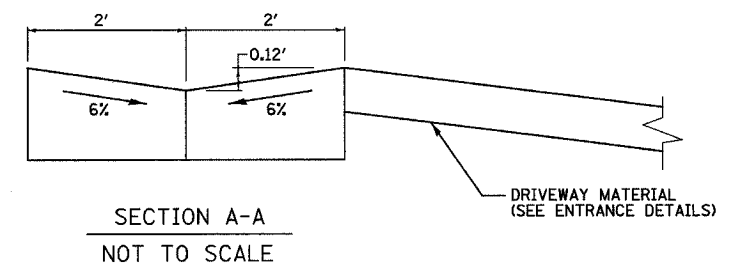


49 MANHOLE DETAIL STA 551+75 13.7' LT
NOT TO SCALE



CONCRETE GUTTER (SPECIAL) DETAIL

- STA 546+95.4 RT
- STA 551+80.8 RT
- STA 553+85.4 RT
- STA 556+22.7 RT
- STA 560+51.4 LT

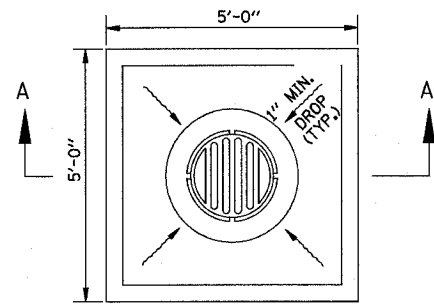


SECTION A-A
NOT TO SCALE

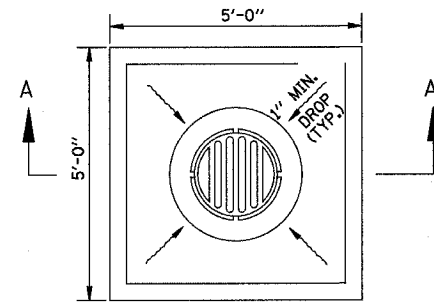
MISCELLANEOUS DETAILS

REVISIONS NO. DATE INITIALS 1 2 3 4 5 6 7 8 9 10		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	DRAWN BY: LBM DATE: 05/03 CHECKED BY: GLF DATE: 03/05 BOOK NUMBER: 471 PROJECT No.: 4805 SHEET No.:
HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-001277		DECATUR (317) 422-8544 CHICAGO (773) 714-0660	

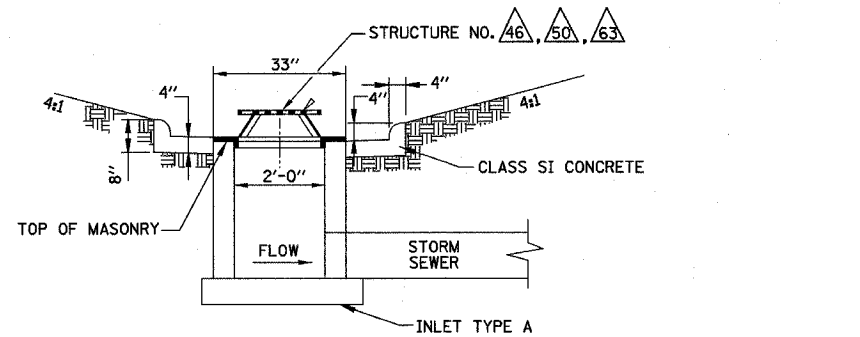
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	46
FEDERAL DIST. NO.		ILLINOIS	PROJECT	
* 02-00175-00-PV				



PLAN

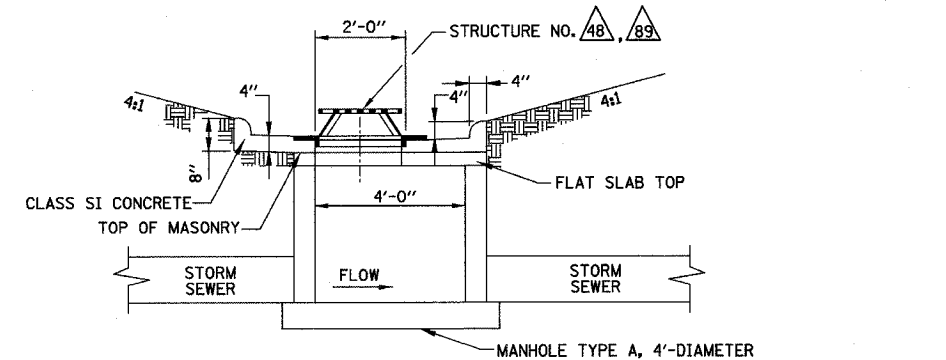


PLAN



SECTION A-A
NOT TO SCALE

(SEE STRUCTURE NOTES FOR ELEVATIONS)



SECTION A-A
NOT TO SCALE

(SEE STRUCTURE NOTES FOR ELEVATIONS)

INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE

MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE

NOTES

1. THE CONTRACTOR SHALL CONSTRUCT AN INLET TYPE A WITH SPECIAL FRAME AND GRATE AND CONCRETE APRON AS DETAILED ABOVE AT THE LOCATIONS INDICATED IN THE PLANS IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRB) ADOPTED JANUARY 1, 2002.
2. THE CONCRETE FOR THE CONCRETE APRON SHALL MEET THE REQUIREMENTS OF SECTION 1020 OF THE SSRB.
3. THE FRAME AND GRATE SHALL BE A DITCH GRATE, STOOL TYPE, NEENAH R-4341-A OR APPROVED EQUIVALENT MEETING THE REQUIREMENTS OF SECTION 604 OF THE SSRB.
4. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR INLETS, TYPE A, WITH SPECIAL FRAME AND GRATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

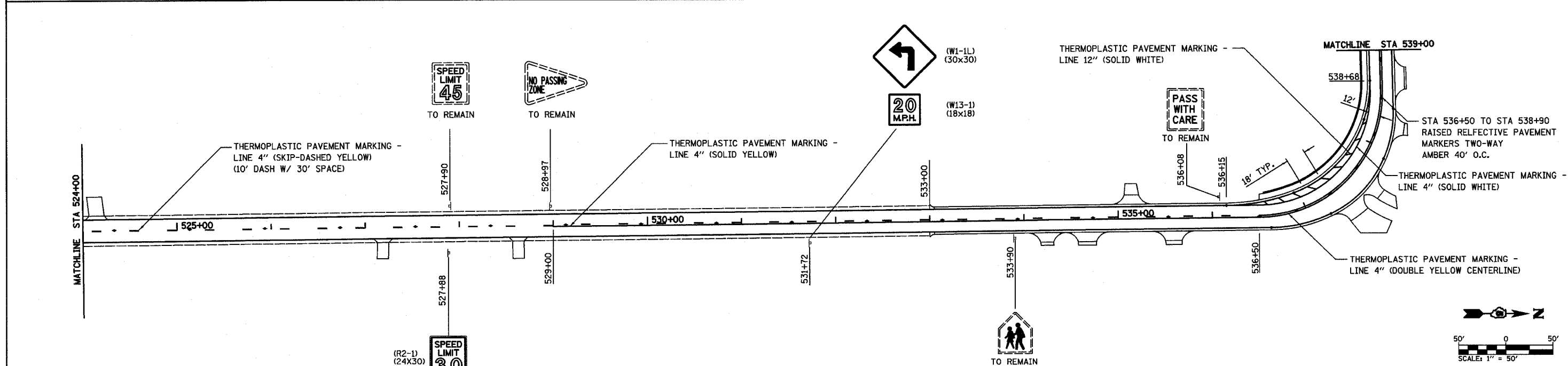
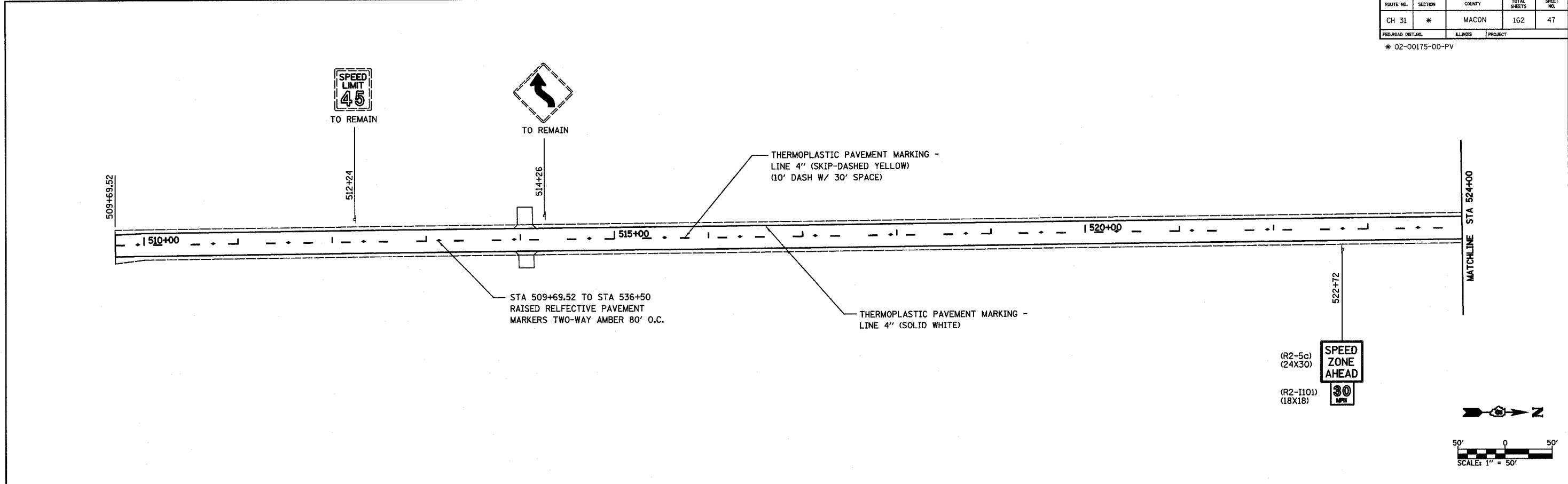
NOTES

1. THE CONTRACTOR SHALL CONSTRUCT A MANHOLE TYPE A WITH SPECIAL FRAME AND GRATE AND CONCRETE APRON AS DETAILED ABOVE AT THE LOCATIONS INDICATED IN THE PLANS IN ACCORDANCE WITH SECTION 602 OF THE SSRB.
2. THE FLAT SLAB TOP SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE HIGHWAY STANDARD 602601.
3. THE CONCRETE FOR THE CONCRETE APRON SHALL MEET THE REQUIREMENTS OF SECTION 1020 OF THE SSRB.
4. THE FRAME AND GRATE SHALL BE A DITCH GRATE, STOOL TYPE, NEENAH R-4341-A OR APPROVED EQUIVALENT MEETING THE REQUIREMENTS OF SECTION 604 OF THE SSRB.
5. THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MANHOLES, TYPE A, 4'-DIAMETER, WITH SPECIAL FRAME AND GRATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

REVISIONS			MISCELLANEOUS DETAILS	
NO.	DATE	INITIALS	TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	
1			DRAWN BY	LBM
2			DATE	04/05
3			CHECKED BY	CAS
4			DATE	04/05
5			BOOK NUMBER	471
6			PROJECT No.	4805
7			SHEET No.	
8			HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-00197 DECATUR (317) 422-8544 CHICAGO (773) 714-0050	
9				
10				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	47
FEDERAL DIST.	ILLINOIS	PROJECT		

* 02-00175-00-PV



PAVEMENT MARKING AND SIGNING PLAN

REVISIONS		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	DRAWN BY	DATE
No.	DATE		EMR	9/03
1			CHECKED BY	DATE
2				
3			BOOK NUMBER	471
4			PROJECT No.	4805
5			SHEET No.	
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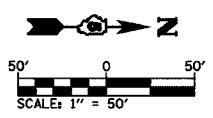
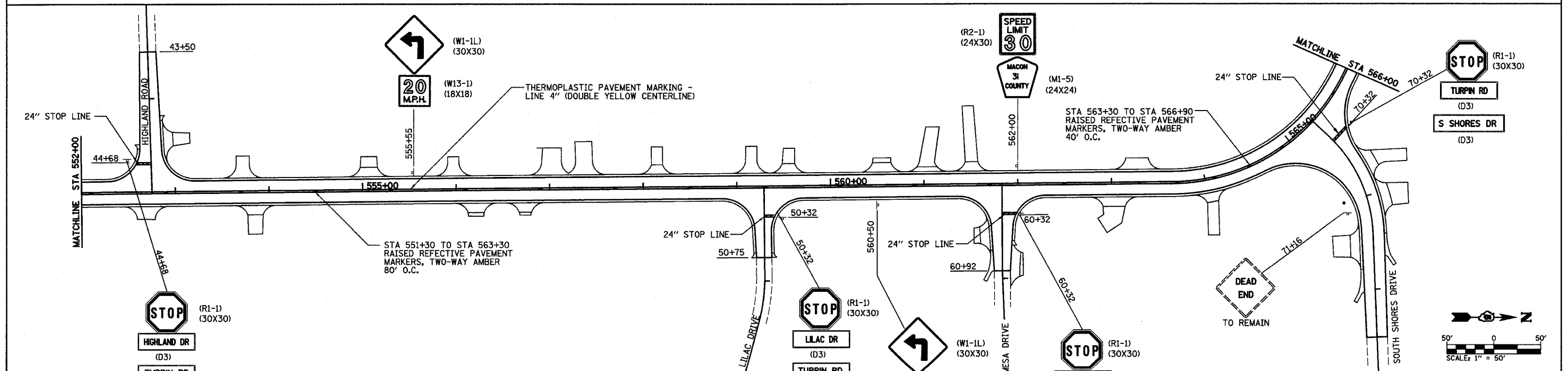
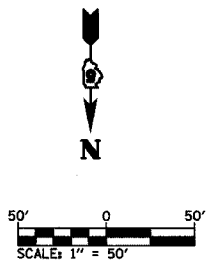
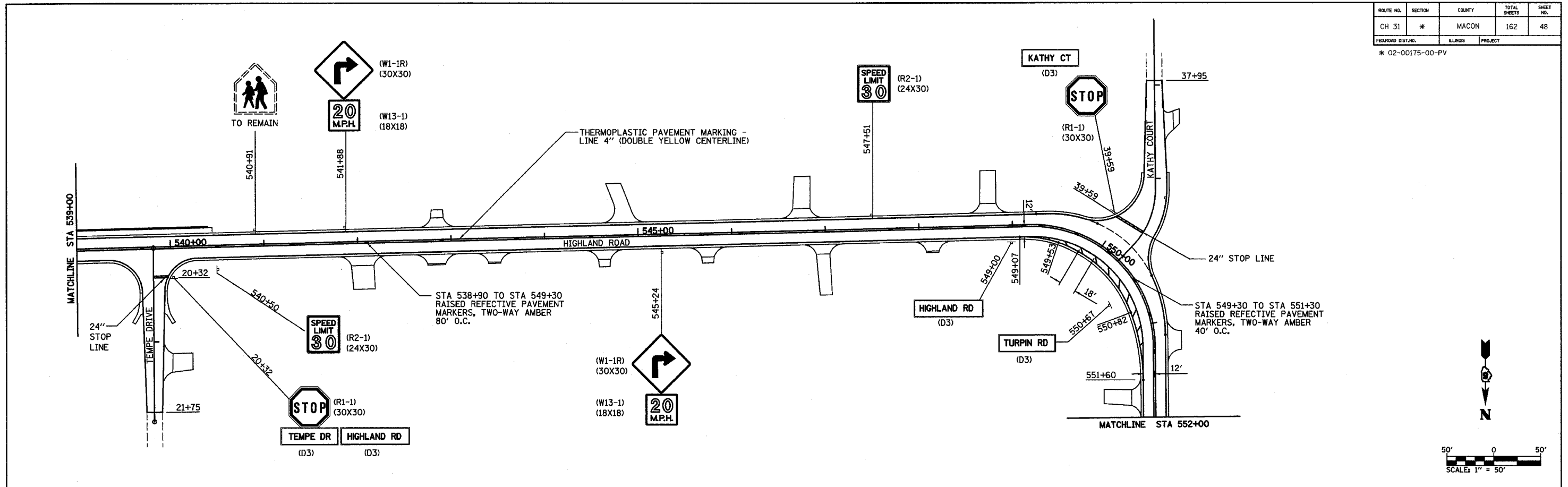
HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001897

DECATUR
317-422-8544

CHICAGO
773-714-0060

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	48
FEDERAL DIST. NO.		ILLINOIS	PROJECT	

* 02-00175-00-PV

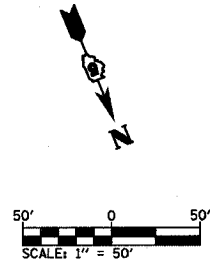
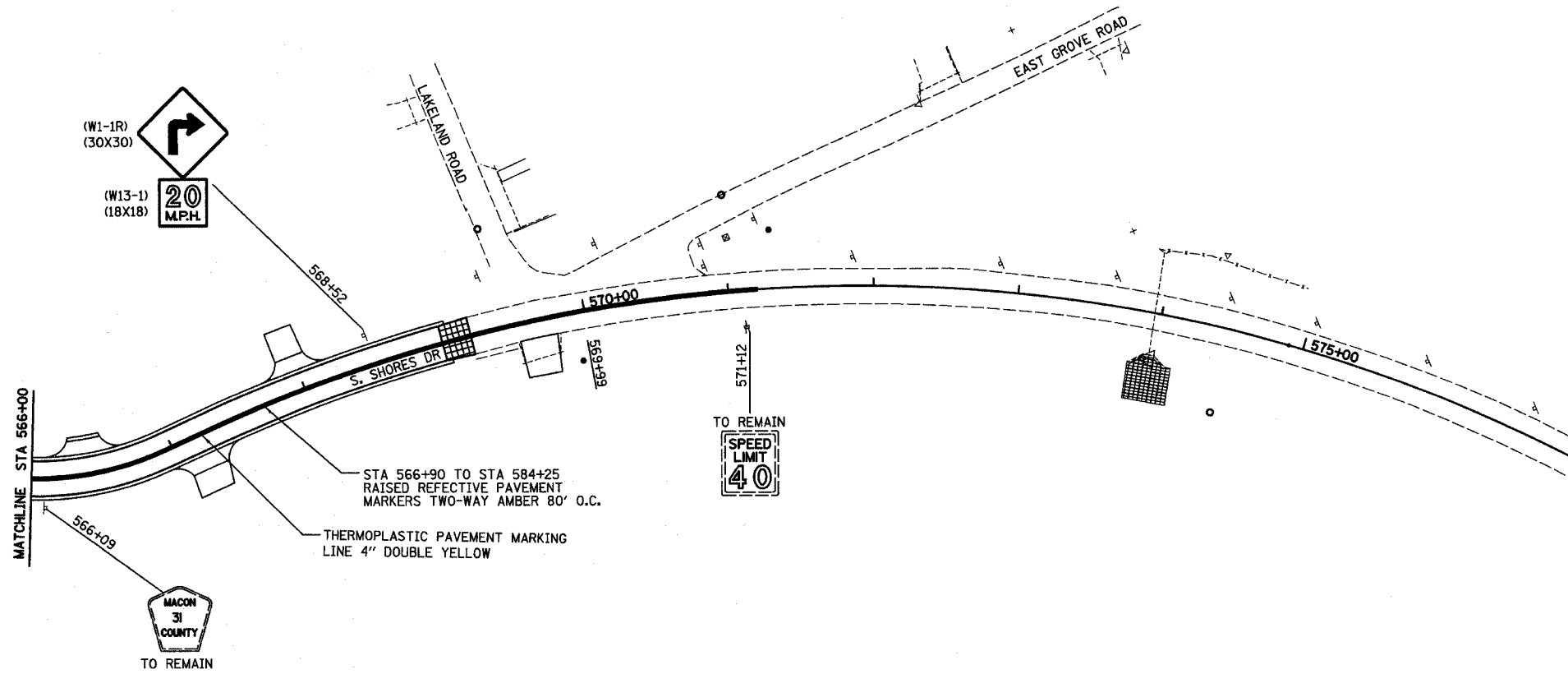


PAVEMENT MARKING AND SIGNING PLAN

REVISIONS NO. DATE INITIALS 1 2 3 4 5 6 7 8 9 10	TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	DRAWN BY DATE EMR 9/03 CHECKED BY DATE BOOK NUMBER 471 PROJECT No. 4805 SHEET No.
		DECATUR 017 422-8544 CHICAGO 070 714-0060

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	49
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

* 02-00175-00-PV

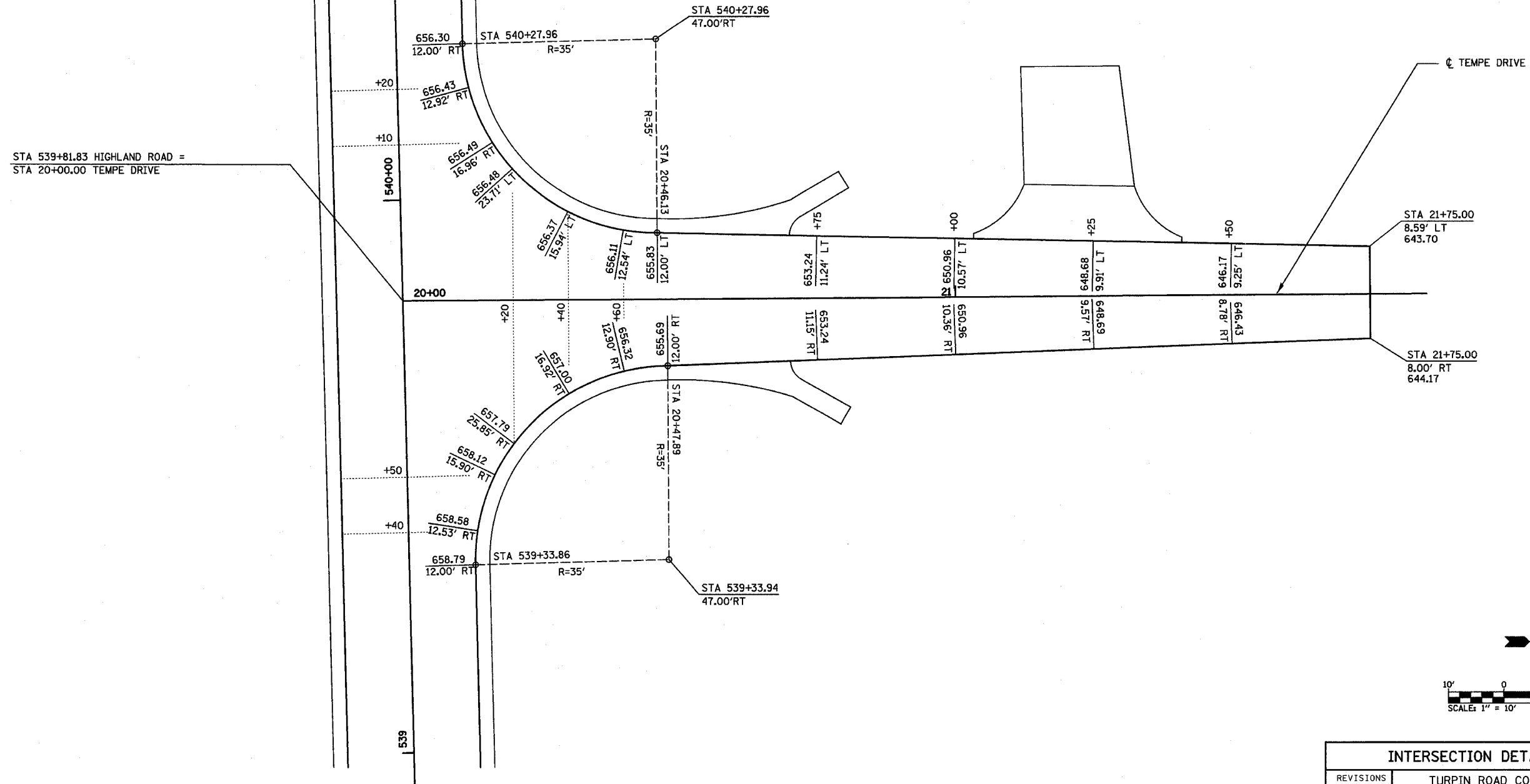


PAVEMENT MARKING AND SIGNING PLAN

TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS			DRAWN BY: EMR DATE: 9/03
HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-001297			CHECKED BY: DATE BOOK NUMBER: 471 PROJECT No.: 4805 SHEET No.:
DECATUR (217) 422-8644 CHICAGO (773) 714-0650			

REVISIONS		
NO.	DATE	INITIALS
1		
2		
3		
4		
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	50
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		
* 02-00175-00-PV				



INTERSECTION DETAIL - TEMPE DRIVE

REVISIONS	TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	DRAWN BY DLB DATE 5/04
1		CHECKED BY GLF DATE 03/05
2		BOOK NUMBER 471
3		PROJECT No. 4805
4		SHEET No.
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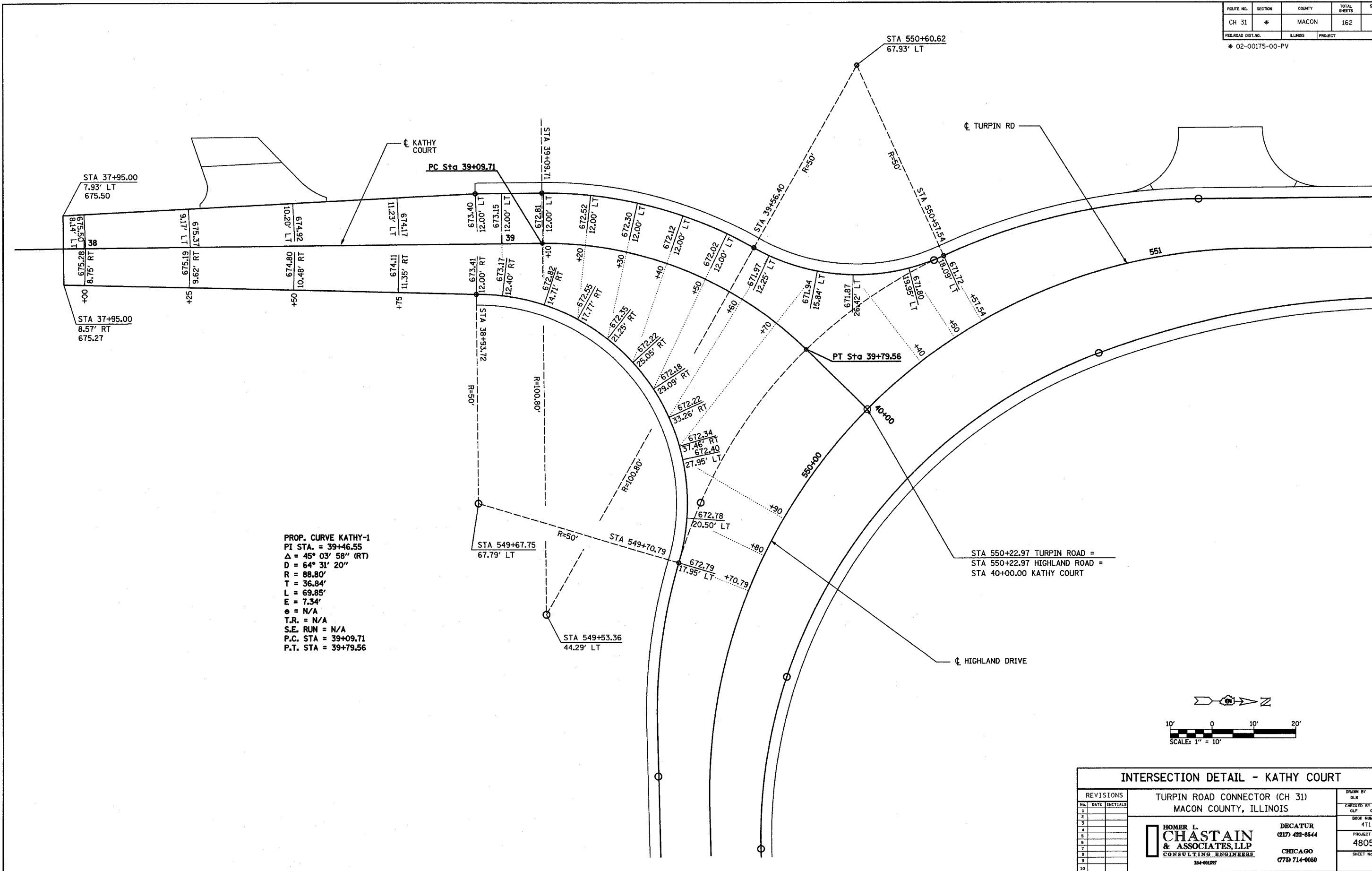
HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001297

DECATUR
(317) 422-8544

CHICAGO
(773) 714-0050

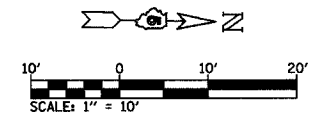
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	51
FED. ROAD DIST. NO.	LLMOS	PROJECT		

* 02-00175-00-PV



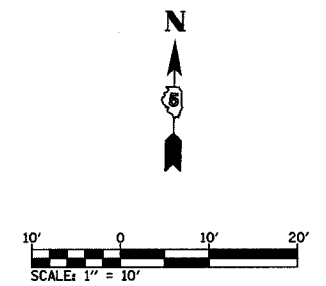
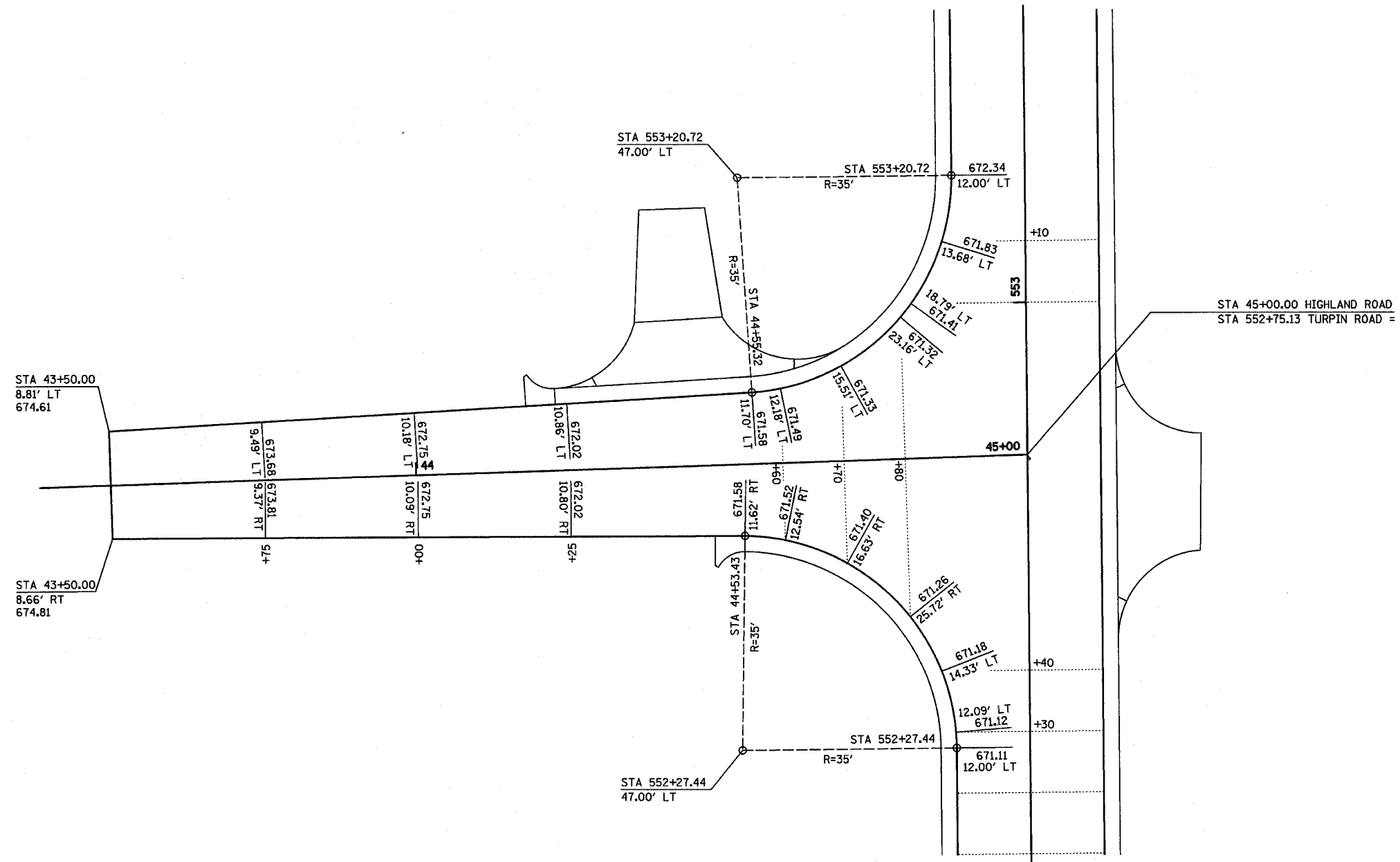
PROP. CURVE KATHY-1
 PI STA. = 39+46.55
 $\Delta = 45^\circ 03' 58''$ (RT)
 $D = 64^\circ 31' 20''$
 $R = 88.80'$
 $T = 36.84'$
 $L = 69.85'$
 $E = 7.34'$
 $\phi = N/A$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 $P.C. STA = 39+09.71$
 $P.T. STA = 39+79.56$

STA 550+22.97 TURPIN ROAD =
 STA 550+22.97 HIGHLAND ROAD =
 STA 40+00.00 KATHY COURT



REVISIONS		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY	DATE
NO.	DATE	INITIALS		DLB	5/04
1				CHECKED BY	DATE
2				GLF	03/05
3				BOOK NUMBER	471
4				PROJECT NO.	4805
5				SHEET NO.	
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	52
FEDERAL DIST. NO.		ILLINOIS	PROJECT	
* 02-00175-00-PV				



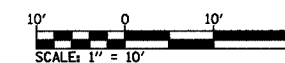
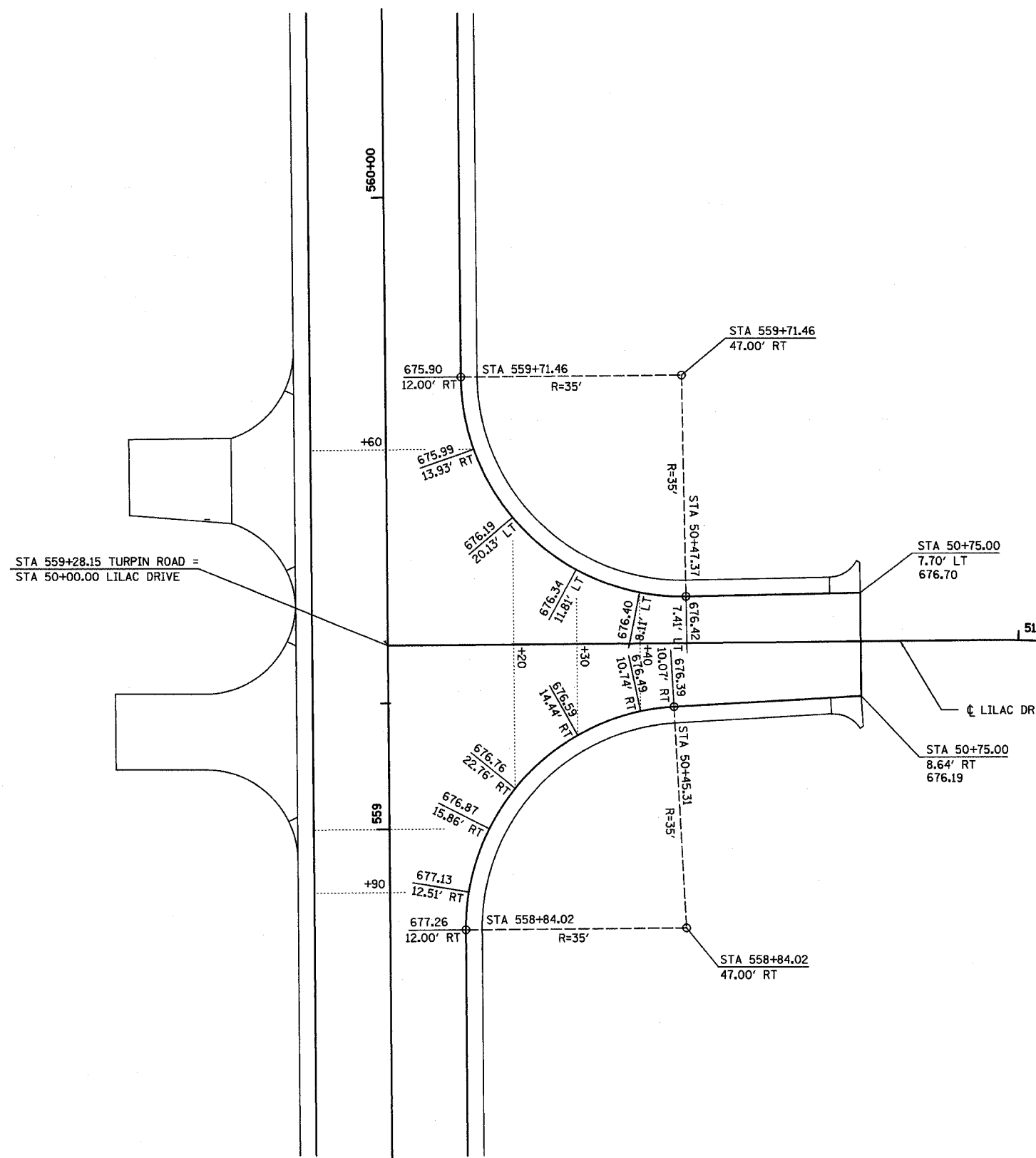
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NO.	DATE	INITIALS	TURPIN ROAD CONNECTOR (CH 31)		DLB	5/04
			MACON COUNTY, ILLINOIS		CHECKED BY	DATE
1					GLF	03/05
2					BOOK NUMBER	471
3					PROJECT NO.	4805
4					SHEET NO.	
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 (773) 714-0050

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	53
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

* 02-00175-00-PV

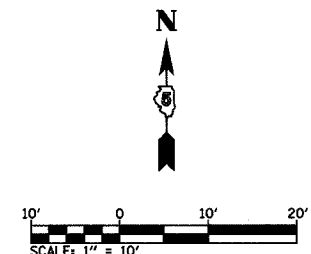
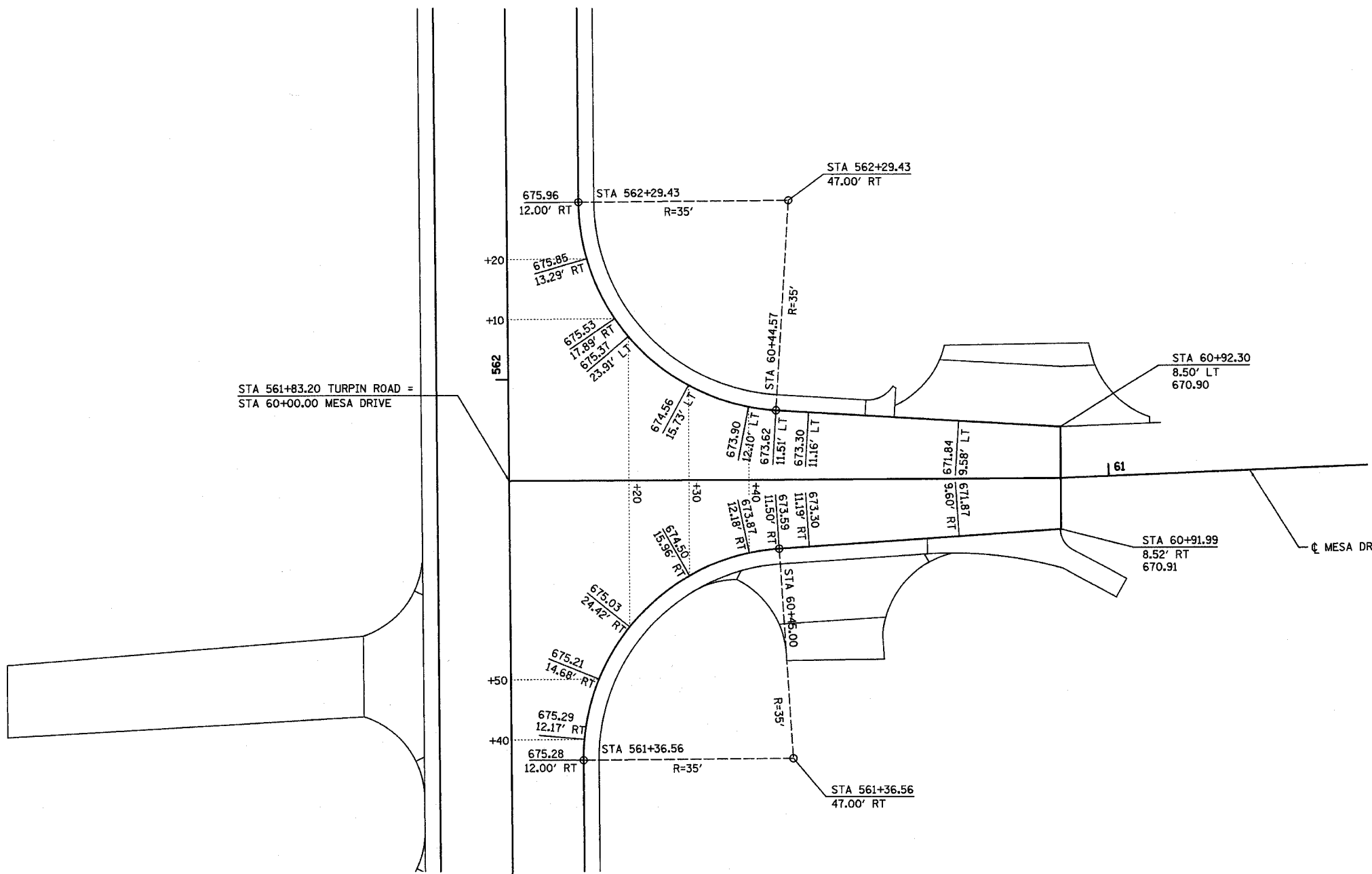


INTERSECTION DETAIL - LILAC DRIVE

REVISIONS NO. DATE INITIALS			TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY DATE DLB 5/04	
1 2 3 4 5 6 7 8 9 10			HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-06197		CHECKED BY DATE GLF 03/05	
			DECATUR (217) 423-8644		BOOK NUMBER 471	
			CHICAGO (773) 714-0050		PROJECT NO. 4805	
					SHEET NO.	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	54
FED. ROAD DIST. NO.	LL.MILES	PROJECT		

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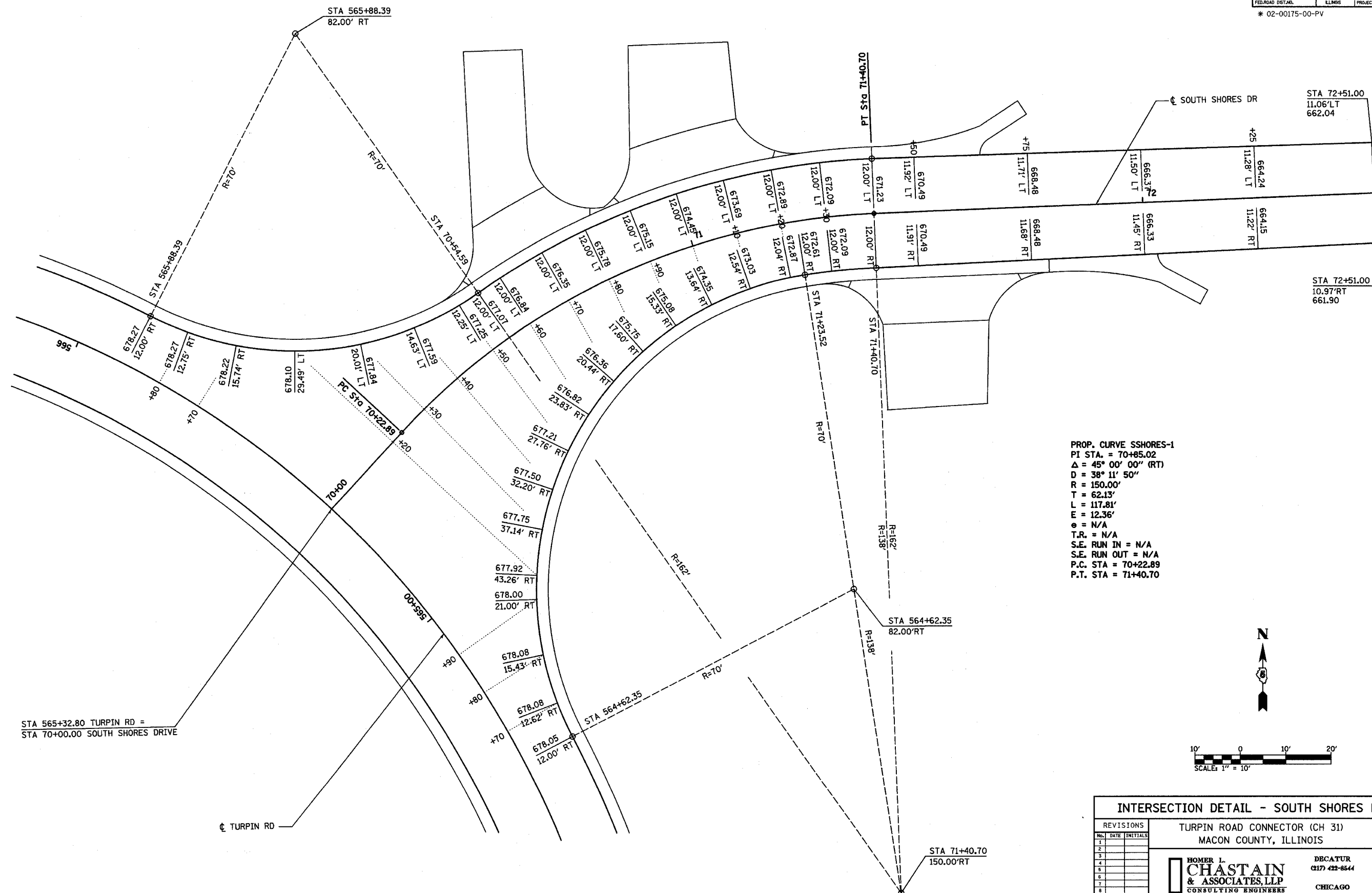
REVISIONS		TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY	DATE
1				DLB	5/04
2				CHECKED BY	DATE
3				DLF	03/05
4				BOOK NUMBER	471
5				PROJECT No.	4805
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184-061297

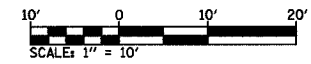
DECATUR
617 422-8544
CHICAGO
773 714-0050

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	55
FED. ROAD DIST. NO.	LLMOS	PROJECT		

* 02-00175-00-PV



PROP. CURVE SSHARES-1
 PI STA. = 70+85.02
 $\Delta = 45^\circ 00' 00''$ (RT)
 $D = 38^\circ 11' 50''$
 $R = 150.00'$
 $T = 62.13'$
 $L = 117.81'$
 $E = 12.36'$
 $\phi = N/A$
 $T.R. = N/A$
 $S.E. RUN IN = N/A$
 $S.E. RUN OUT = N/A$
 $P.C. STA = 70+22.89$
 $P.T. STA = 71+40.70$



STA 565+32.80 TURPIN RD =
 STA 70+00.00 SOUTH SHORES DRIVE

REVISIONS			TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY	DATE
1					DLB	5/04
2					CHECKED BY	DATE
3					DLF	03/05
4					BOOK NUMBER	471
5					PROJECT NO.	4805
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	56
FED. ROAD DIST. NO.	KLINGS	PROJECT		

* 02-00175-00-PV

STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREBY MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROJECT CONSISTS OF RECONSTRUCTING EXISTING TWO-LANE TURPIN ROAD TO A TWO-LANE RURAL SECTION AND A TWO-LANE URBAN SECTION FOR 1.1 MILES IN MACON COUNTY.
2. CONSTRUCTION INCLUDES IMPROVING THREE CURVES, CURB AND GUTTER, STORM SEWER, AND ENTRANCE IMPROVEMENTS. OTHER ITEMS OF WORK INCLUDE DRAINAGE STRUCTURES, DITCH CONSTRUCTION, PAVEMENT MARKINGS, SIGNING AND OTHER INCIDENTAL AND COLLATERAL WORK NECESSARY TO COMPLETE THE IMPROVEMENT IN STAGED CONSTRUCTION AS SHOWN ON THE PLANS AND AS DESCRIBED HEREIN.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITES:

STAGE 1 COMPLETE CONSTRUCTION OF THE FOLLOWING:

- TURPIN ROAD FROM: STA 509+69.52 TO STA 535+36
- TURPIN ROAD FROM: STA 540+67 TO STA 548+93
- TURPIN ROAD FROM: STA 552+00 TO STA 563+66
- TURPIN ROAD FROM: STA 566+94 TO STA 569+00
- HIGHLAND
- LILAC
- MESA

(CONSTRUCTION INCLUDES CLEARING, TREE REMOVAL, EXCAVATION, EMBANKMENT, STORM SEWER, CURB AND GUTTER, PAVING, SEEDING, PAVEMENT MARKING, SIGNING AND PERMANENT EROSION CONTROL ITEMS).

STAGE 2 COMPLETE CONSTRUCTION OF THE FOLLOWING:

- TURPIN ROAD FROM: STA 535+36 TO STA 540+67
- TURPIN ROAD FROM: STA 548+93 TO STA 552+00
- TURPIN ROAD FROM: STA 563+66 TO STA 566+94
- RETAINING WALL
- TEMPE DRIVE
- KATHY COURT
- SOUTH SHORES DRIVE

(CONSTRUCTION INCLUDES CLEARING, TREE REMOVAL, EXCAVATION, EMBANKMENT, STORM SEWER, CURB AND GUTTER, PAVING, SEEDING, PAVEMENT MARKING, SIGNING AND PERMANENT EROSION CONTROL ITEMS).

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 10.0 ACRES OF WHICH 8.9 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. INFORMATION ON THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM TOPOGRAPHIC SURVEYS AND SOIL BORINGS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, STANDARD SPECIFICATIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

1. MULTIPLE UNNAMED CREEKS AND TRIBUTARIES.

CONTROLS • EROSION CONTROLS AND SEDIMENT CONTROL

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

1. THE DRAWINGS, SPECIFICATIONS, AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. IN NO CASE, SHALL MORE THAN 7 DAYS ELAPSE AFTER THE CONSTRUCTION ACTIVITY IN ANY PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED BEFORE INITIATION OF STABILIZATION MEASURES.
 - (a.) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS WILL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
 - (b.) ALONG WITH REQUIRED TREE REMOVAL, DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
 - (c.) AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION, AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.
 - (d.) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODABLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.
 - (e.) IMMEDIATELY AFTER TREE REMOVAL IS COMPLETED, AREAS WHICH ARE HIGHLY ERODABLE AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN SEVEN DAYS.
 - (f.) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.
2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVERSEEDING CAN BE COMPLETED.

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.


MACON COUNTY ENGINEER

4/7/05
DATE

REVISIONS			TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY DATE LBM 05/03
NO.	DATE	INITIALS			CHECKED BY DATE GLF 03/05
1					BOOK NUMBER 471
2					PROJECT No. 4805
3					SHEET No.
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	57
FEDERAL DIST. NO.		ILLINOIS	PROJECT	
* 02-00175-00-PV				

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
 - (a.) TO PREVENT UNNECESSARY SOIL EROSION WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY.
 - (b.) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN FOURTEEN DAYS.
 - (c.) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
 - I. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
 - II. TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
 - III. CONSTRUCT ROADSIDE DITCHES AND PROVIDE TEMPORARY EROSION CONTROL SYSTEMS.
 - IV. TEMPORARILY DIVERT WATER AROUND PROPOSED CULVERT LOCATIONS.
 - V. BUILD NECESSARY EMBANKMENT AT CULVERT LOCATIONS AND THEN EXCAVATE AND PLACE CULVERT.
 - VI. CONTINUE BUILDING UP THE EMBANKMENT TO THE PROPOSED GRADE WHILE AT THE SAME TIME PLACING PERMANENT CONTROL SUCH AS RIPRAP DITCH LINING AND CONDUCTING FINAL SHAPING TO THE SLOPES.
 - (d.) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.
 - (e.) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
 - (f.) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
 - (g) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EARTH EXCAVATION.
 - (h) THE TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER THEIR USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE VARIOUS TEMPORARY EROSION CONTROL ITEMS.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.







MAINTENANCE AFTER CONSTRUCTION:

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY MACON COUNTY FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS:

1. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS/ACRES.
2. MULCH METHOD 1 AS APPLIED TO TEMPORARY SEEDING SHALL CONFORM TO SECTION 251 OF THE STANDARD SPECIFICATIONS. MULCH WILL NOT BE PAID FOR SEPARATLY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY EROSION CONTROL SEEDING.
3. CONSTRUCT PERIMETER EROSION CONTROL AT BEGINNING OF CONSTRUCTION. REMOVE AT END OF CONSTRUCTION.
4. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

EROSION AND SEDIMENT CONTROL
STANDARD SYMBOLS

-  PERIMETER EROSION BARRIER - SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER
-  EROSION CONTROL BLANKET
-  FLOW LINES
-  INLET AND PIPE PROTECTION - STRAW BALES, FILTER FABRIC, AGGREGATES
-  PERMANENT EARTH BERM DITCH CHECK
-  RIPRAP

REVISIONS			TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY	DATE
1					LBM	05/03
2					CHECKED BY	DATE
3					GLF	03/04
4					BOOK NUMBER	471
5					PROJECT No.	4805
6					SHEET No.	
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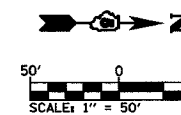
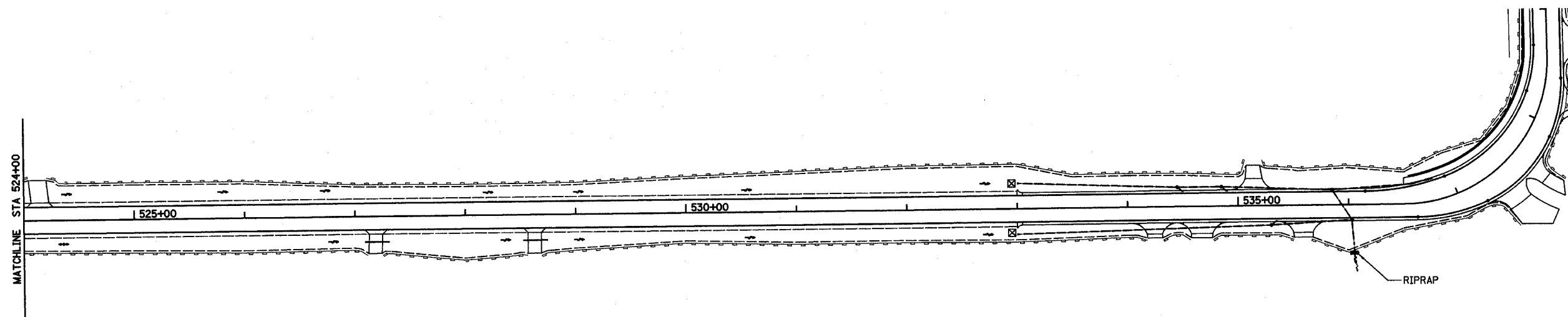
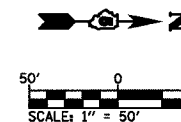
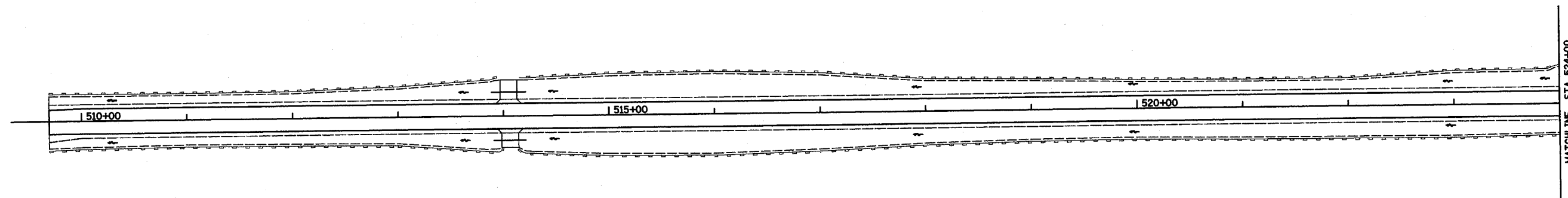
DECATUR
317-422-8544

CHICAGO
773-714-0060

91325

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	58
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		

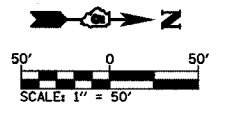
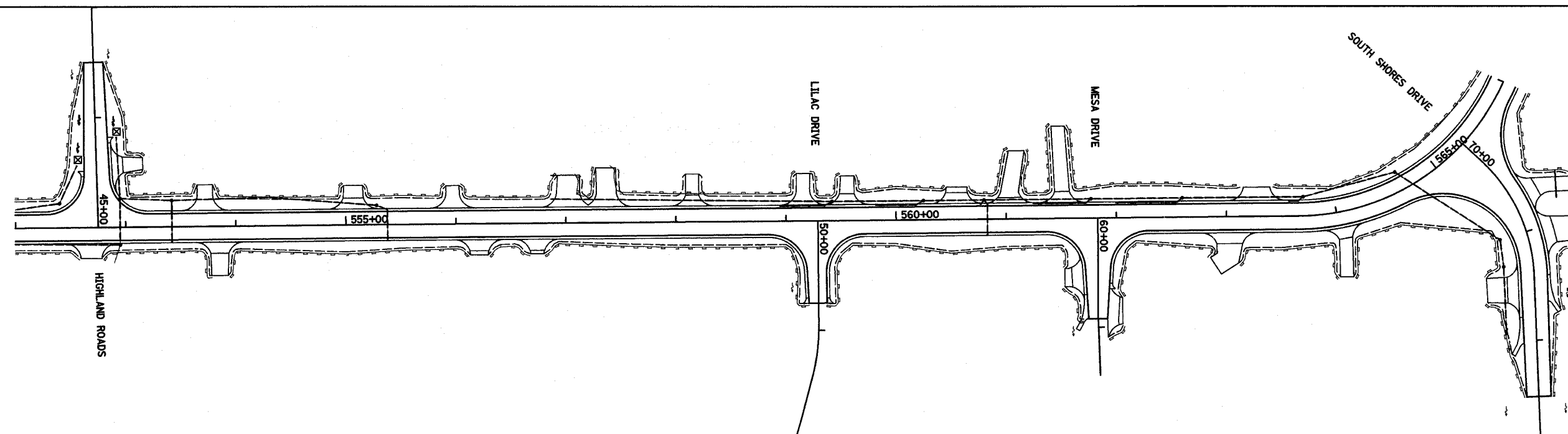
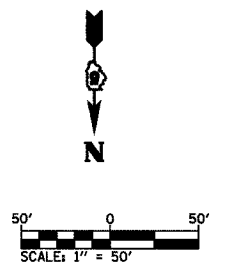
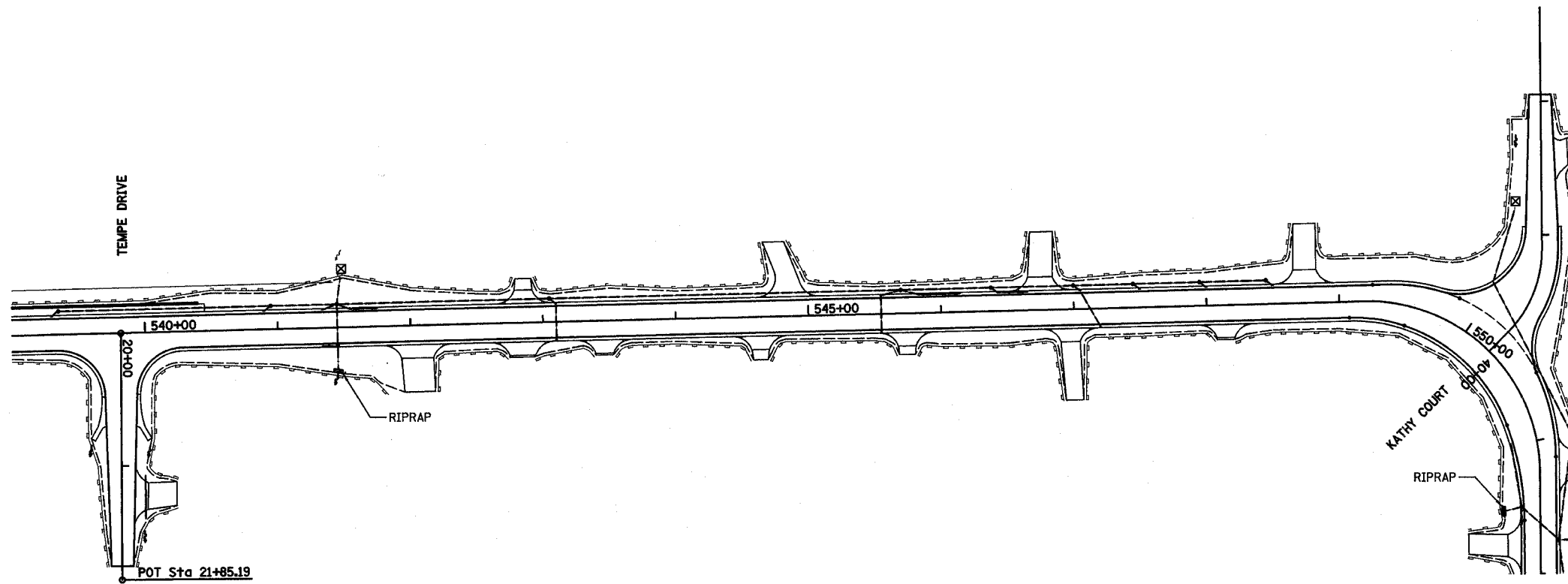
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EROSION CONTROL PLAN		
REVISIONS NO. DATE INITIALS		DRAWN BY DATE DLB 5/04
TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		CHECKED BY DATE
		BOOK NUMBER 471
		PROJECT No. 4805
		SHEET No.

91325

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	59
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		
* 02-00175-00-PV				

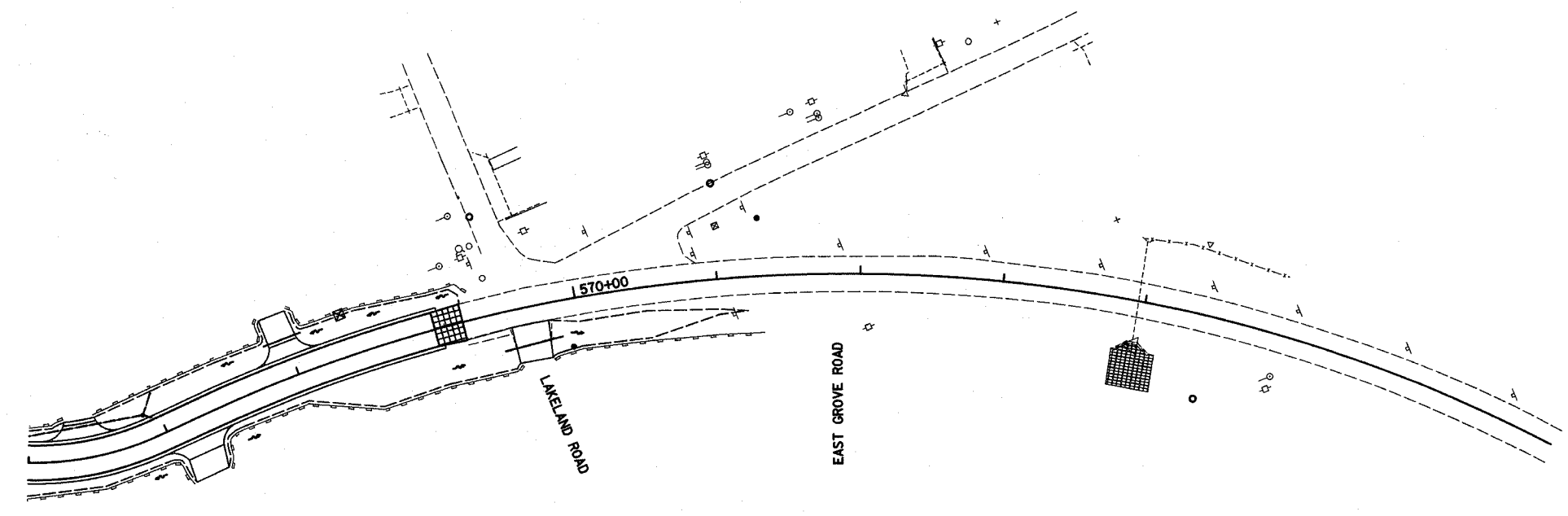


REVISIONS			TUPPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS		DRAWN BY	DATE
NO.	DATE	INITIALS			DLB	05/04
1					CHECKED BY	DATE
2					BOOK NUMBER	471
3					PROJECT NO.	4805
4					SHEET NO.	
5					HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 144-00177	
6					DECATUR	317-422-8844
7					CHICAGO	773-714-0060
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91325

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	60
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	

* 02-00175-00-PV



50' 0 50'
SCALE: 1" = 50'

REVISIONS			EROSION CONTROL PLAN	
NO.	DATE	INITIALS	TURPIN ROAD CONNECTOR (CH 31) MACON COUNTY, ILLINOIS	DRAWN BY DATE DLB 5/04
1				CHECKED BY DATE
2				BOOK NUMBER 471
3				PROJECT No. 4805
4				SHEET No.
5				
6				
7				
8				
9				
10				

HOMER L. CHASTAIN & ASSOCIATES, LLP
CONSULTING ENGINEERS
184-001877

DECATUR
317-423-8544
CHICAGO
773-714-0050

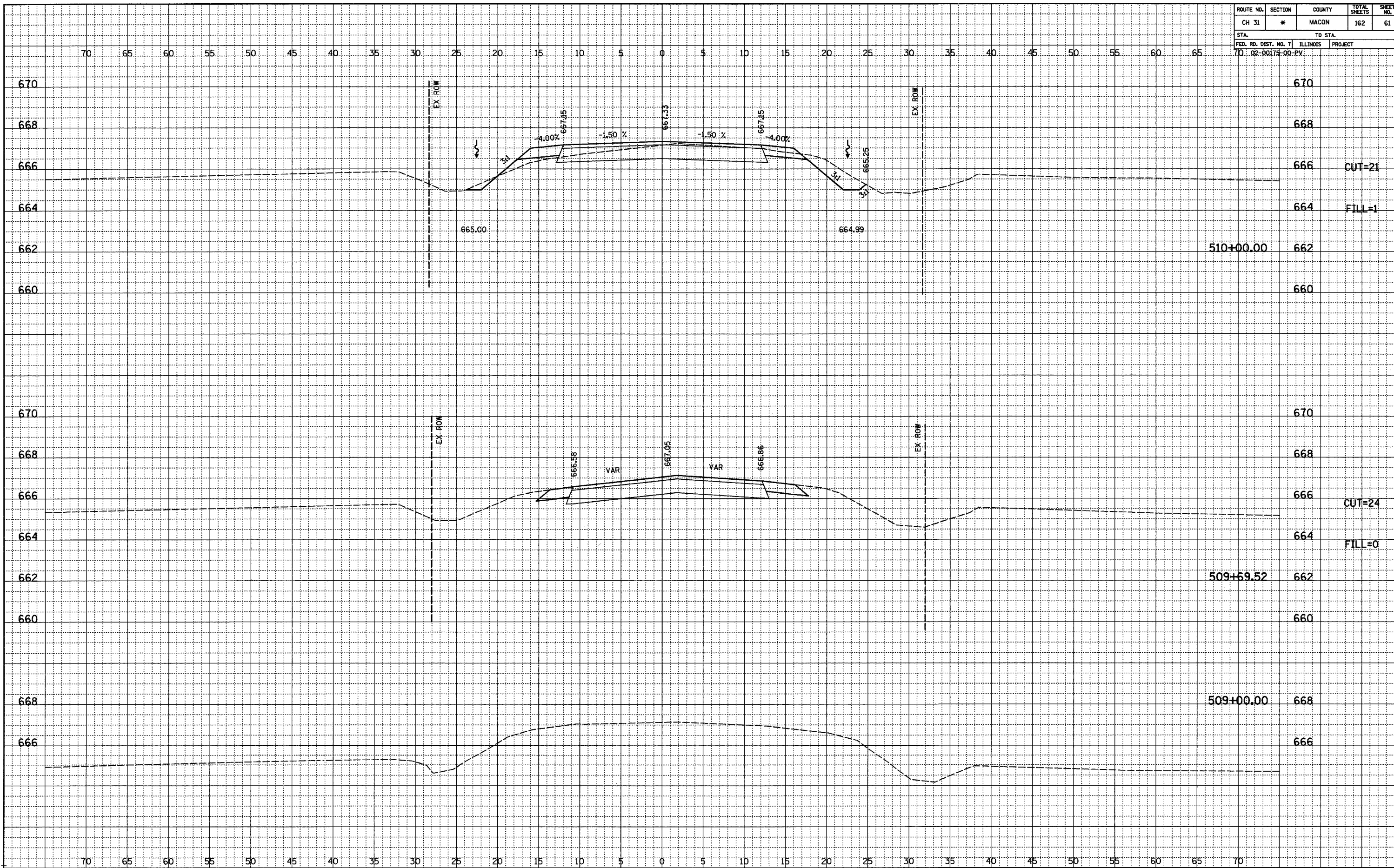
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	61
STA.		TO STA.		
70+00-00		70+00-00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		

FINAL SURVEYED
PLOTTED
NOTEBOOK
NO. _____

CHECKED
BY _____
DATE _____

ORIGINAL SURVEYED
PLOTTED
NOTEBOOK
NO. _____

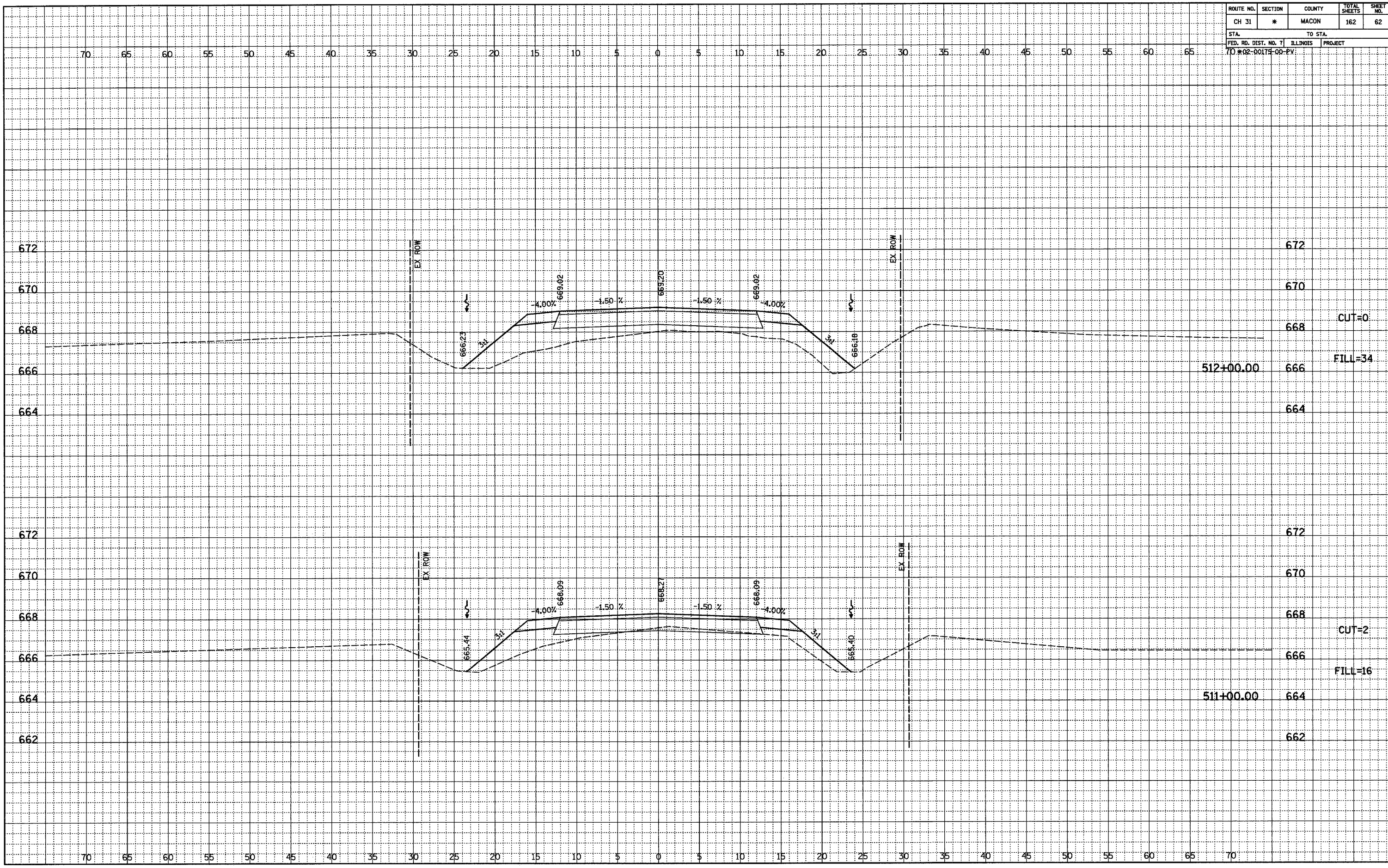
CHECKED
BY _____
DATE _____



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	62
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
70#02-00174-00-PV				

FINAL SURVEYED, PLOTTED, CHECKED, REVISIONS, DATE, BY

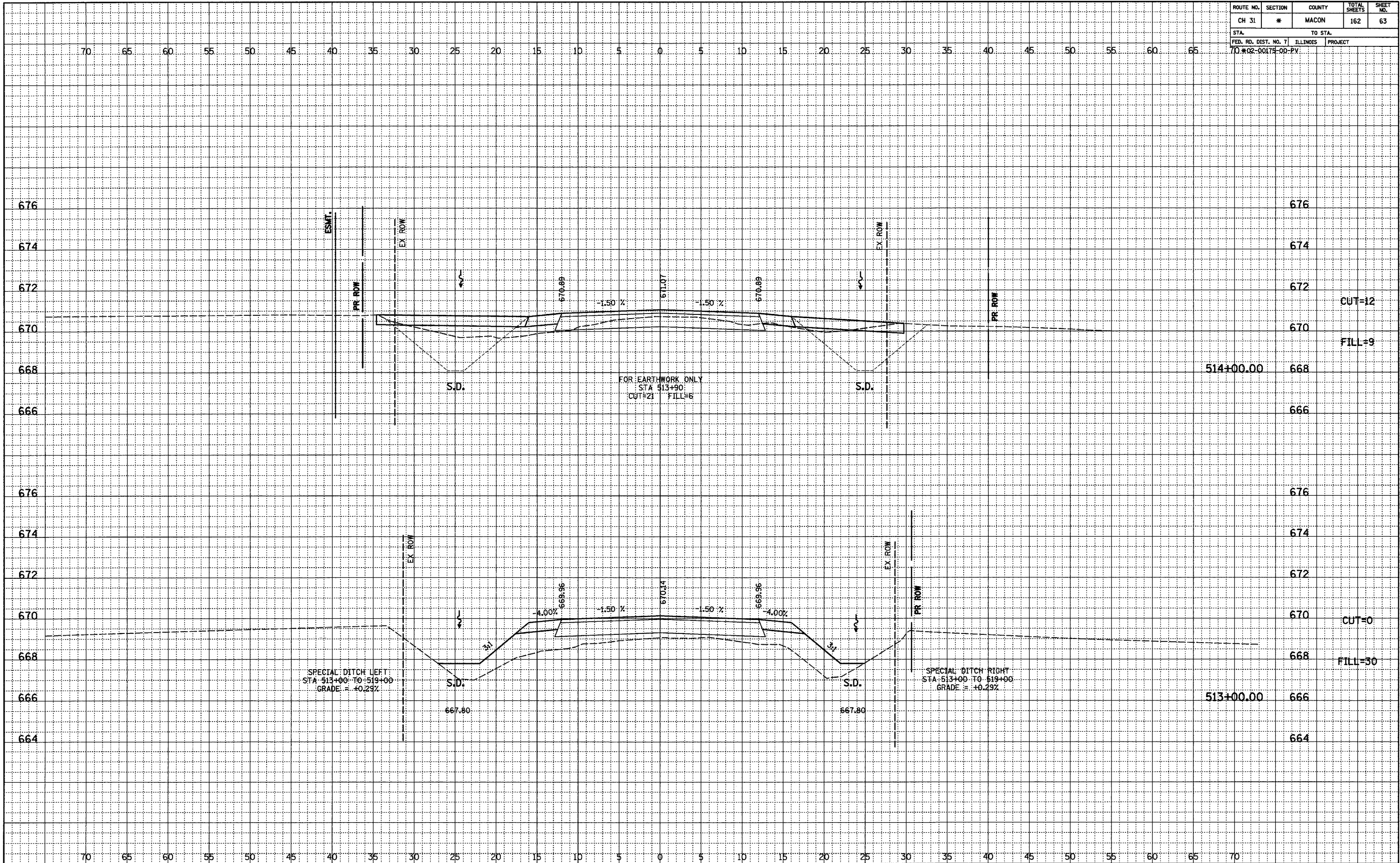
ORIGINAL SURVEYED, PLOTTED, CHECKED, REVISIONS, DATE, BY



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	63
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS		PROJECT
70#02-00175-00-PV				

FINAL	SURVEYED	BY	DATE
NOTEBOOK	PLOTTED		
NO.	BY		
	NO.		

ORIGINAL	SURVEYED	BY	DATE
NOTEBOOK	PLOTTED		
NO.	BY		
	NO.		



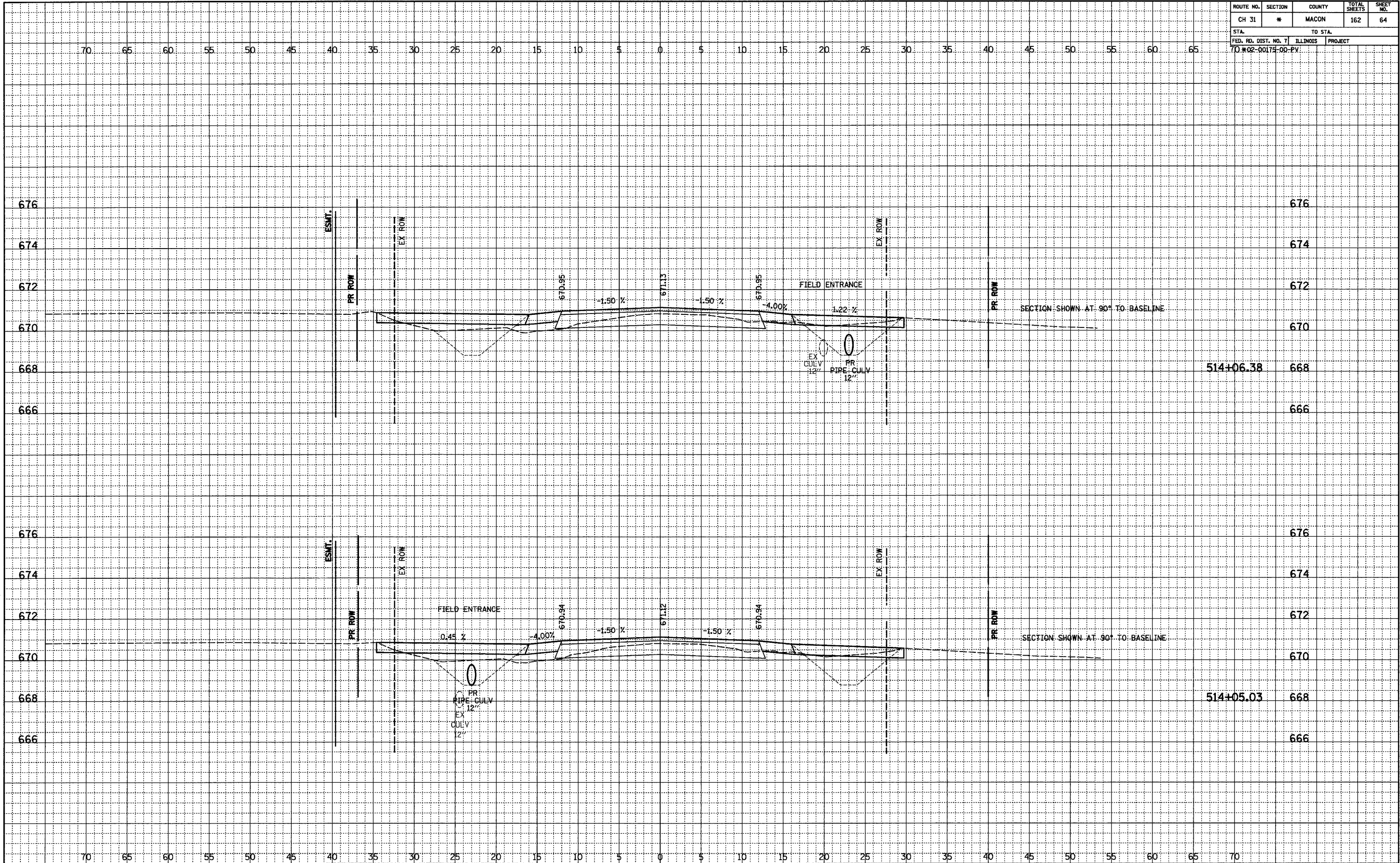
CUT=12
 FILL=9

CUT=0
 FILL=30

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	64
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70-02-00174-00-PV				

FINAL	SURVEYED	BY	DATE
NOTED	PLOTTED		
NO.	NO.		

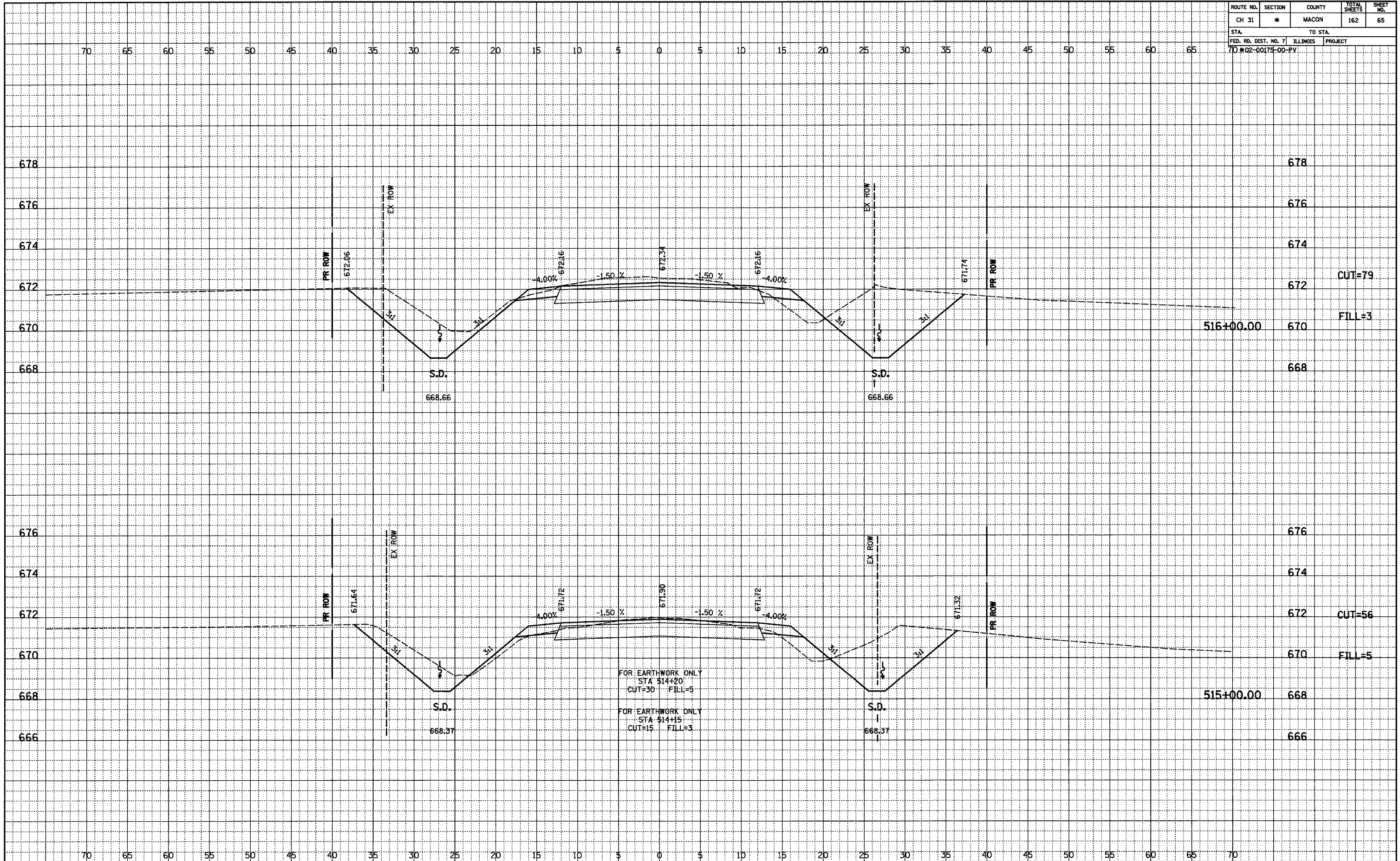
ORIGINAL	SURVEYED	BY	DATE
NOTED	PLOTTED		
NO.	NO.		



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	65
STA.		TO STA.		
70 #02-00175-00-PV		ILLINOIS PROJECT		

FINAL	DATE
REVISIONS	BY
NOTED	
PLOTTED	
GRADES CHECKED	
ALIGNED	
NOTED	
NO.	

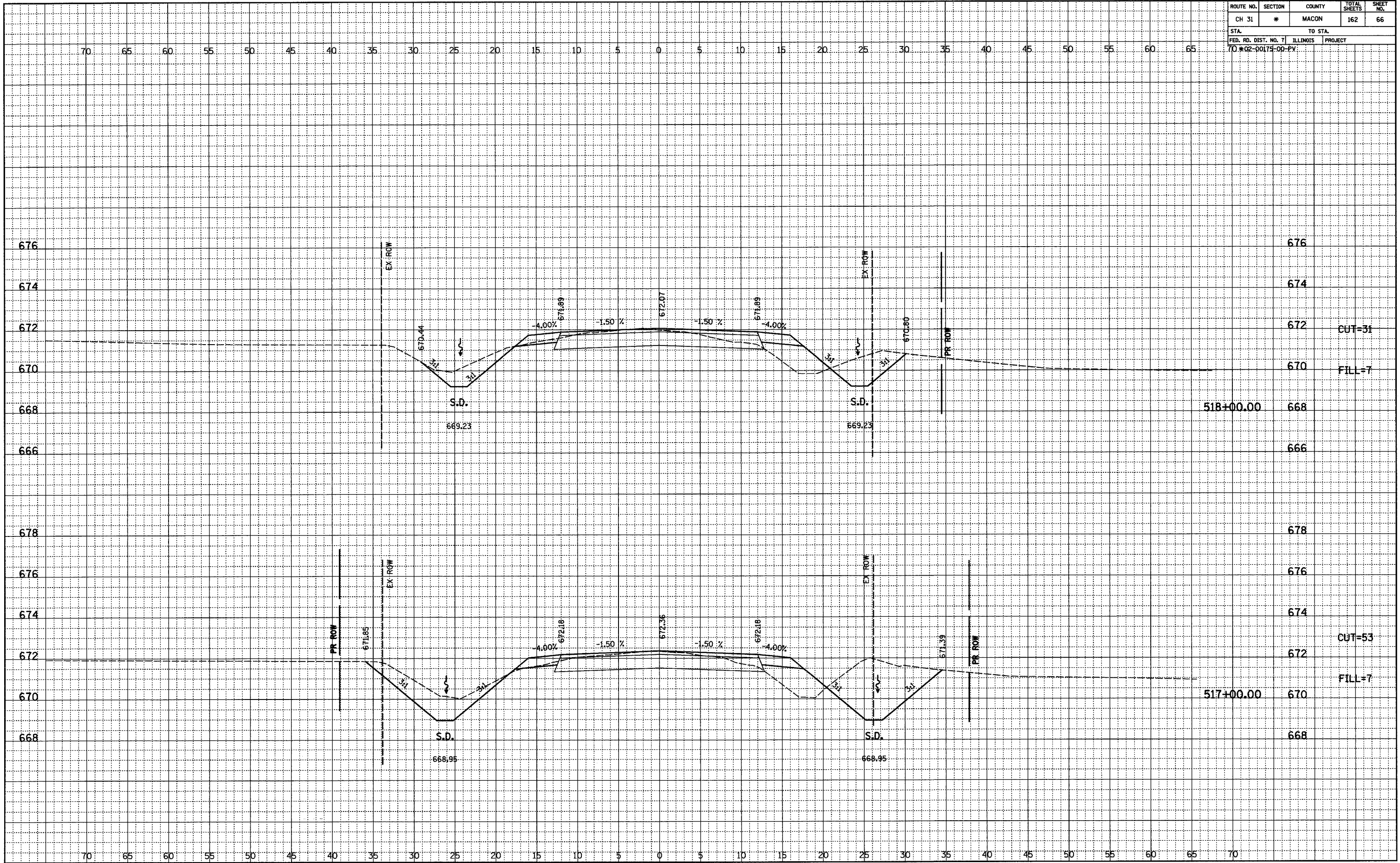
ORIGINAL	DATE
REVISIONS	BY
NOTED	
PLOTTED	
GRADES CHECKED	
ALIGNED	
NOTED	
NO.	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	66
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70 #02-00175-00-PV				

FINAL	REVIEWED	DATE
NO.	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	

ORIGINAL	REVIEWED	DATE
NO.	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	67
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70 #02-00175-00-PV				



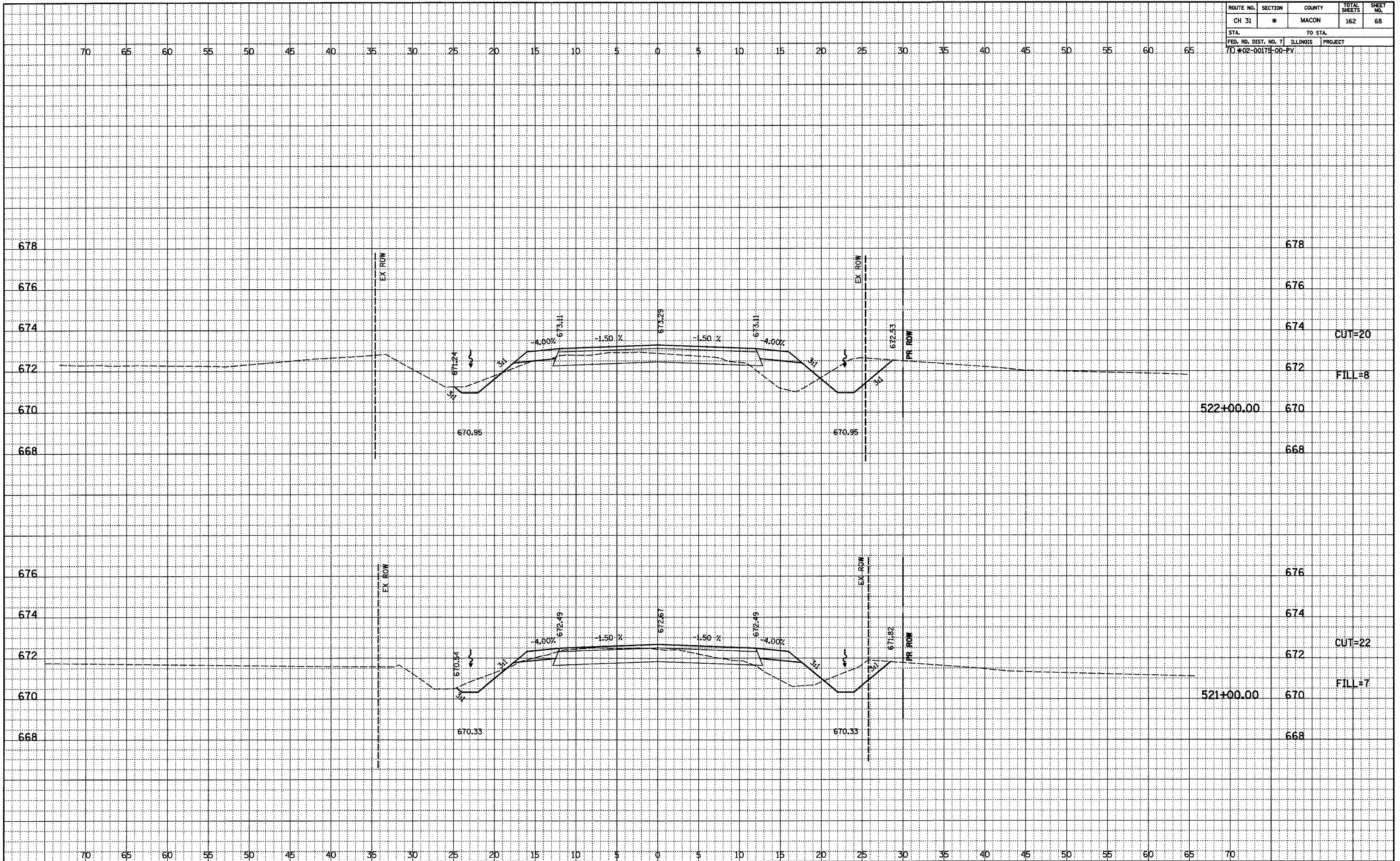
FINAL	SURVEYED	BY	DATE
NO	NO		
NO	NO		
NO	NO		

ORIGINAL	SURVEYED	BY	DATE
NO	NO		
NO	NO		
NO	NO		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	68
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70#02-00175-00-PV				

FINAL SURVEYED	BY	DATE
PLOTTED		
NOTED		
NO. _____		

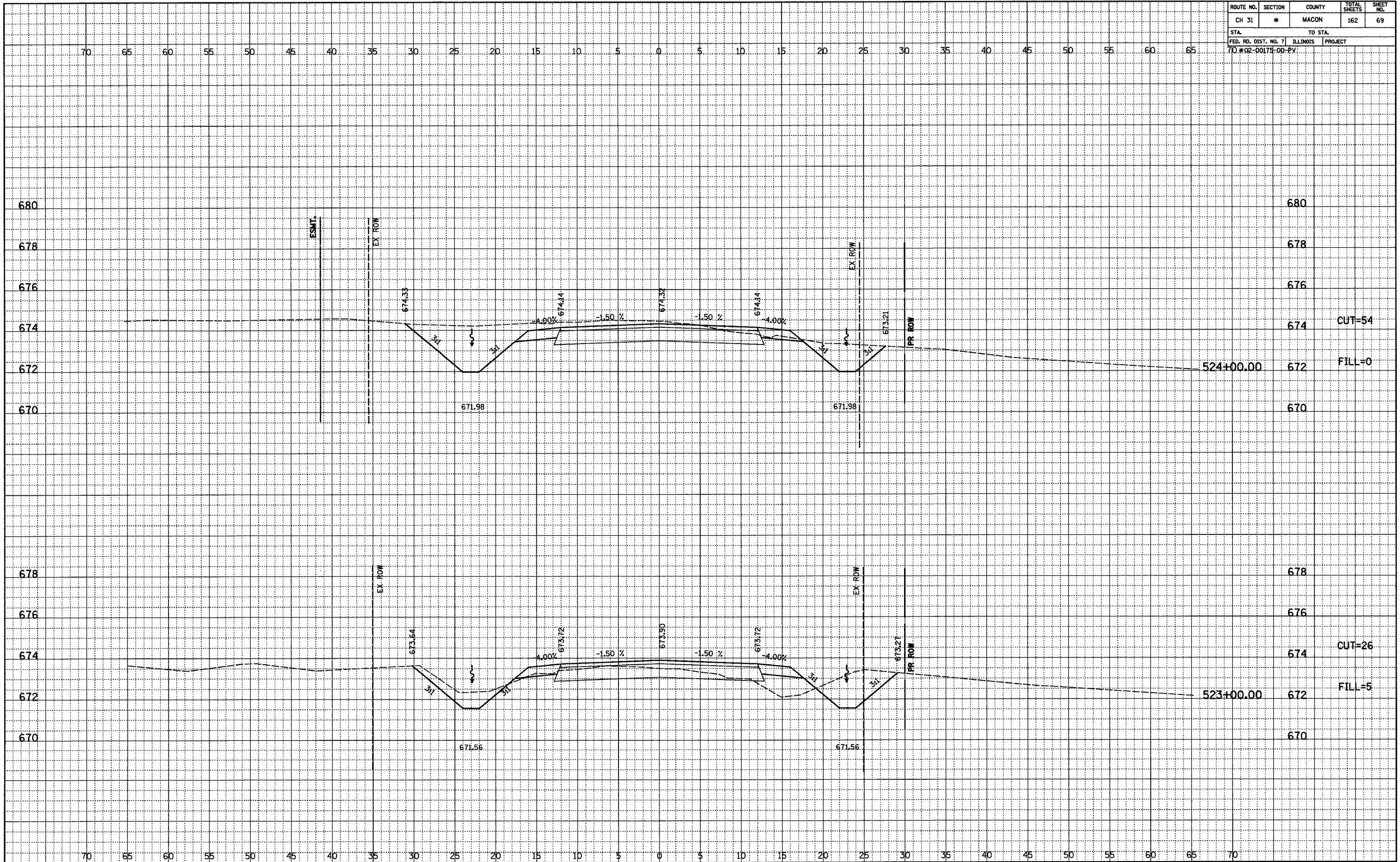
ORIGINAL SURVEYED	BY	DATE
PLOTTED		
NOTED		
NO. _____		



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	69
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		
70#02-00175-00-PV				

FINAL	SURVEYED	BY	DATE
NO.	NOTEBOOK		
	PLOTTED		
	ALIGNED		
	CHECKED		
	BY		
	NO.		

ORIGINAL	SURVEYED	BY	DATE
NO.	NOTEBOOK		
	PLOTTED		
	GRADES		
	CHECKED		
	BY		
	NO.		
	STRUCTURE		
	NOTATIONS		
	CHK'D		



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	70
STA.		TO STA.		
70+02-00175-00-PV		ILLINOIS PROJECT		

FINAL SURVEYED	BY	DATE
NOTEBOOK ALIGNED CHECKED		
RT. OF WAY CHECKED		
NO.		

ORIGINAL SURVEYED	BY	DATE
NOTEBOOK GRADES CHECKED		
ENR'S MATED		
STRUCTURE NOTATIONS CRKD		
NO.		



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	71
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70 #02-00175-00-PV				

FINAL	SURVEYED	DATE
NOTED	PLOTTED	BY
NO.	NO.	
	NO.	
	NO.	

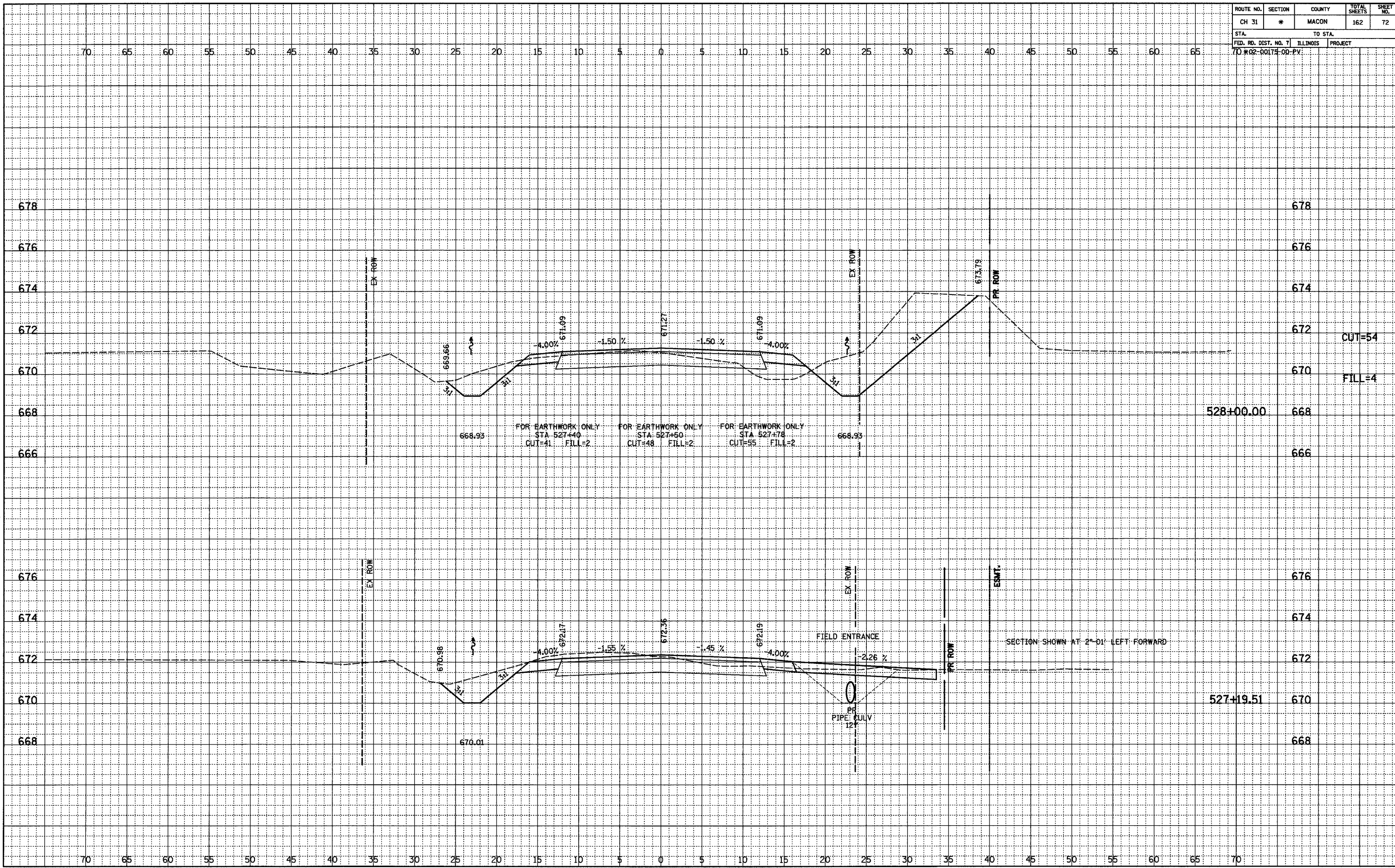
ORIGINAL	SURVEYED	DATE
NOTED	PLOTTED	BY
NO.	NO.	
	NO.	
	NO.	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	72
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70#02-0017E-00-PV				

FINAL	SURVEYED	BY	DATE
NO	PLOTTED		
	NOTED		
	CHKD		
	BY		
	NO.		

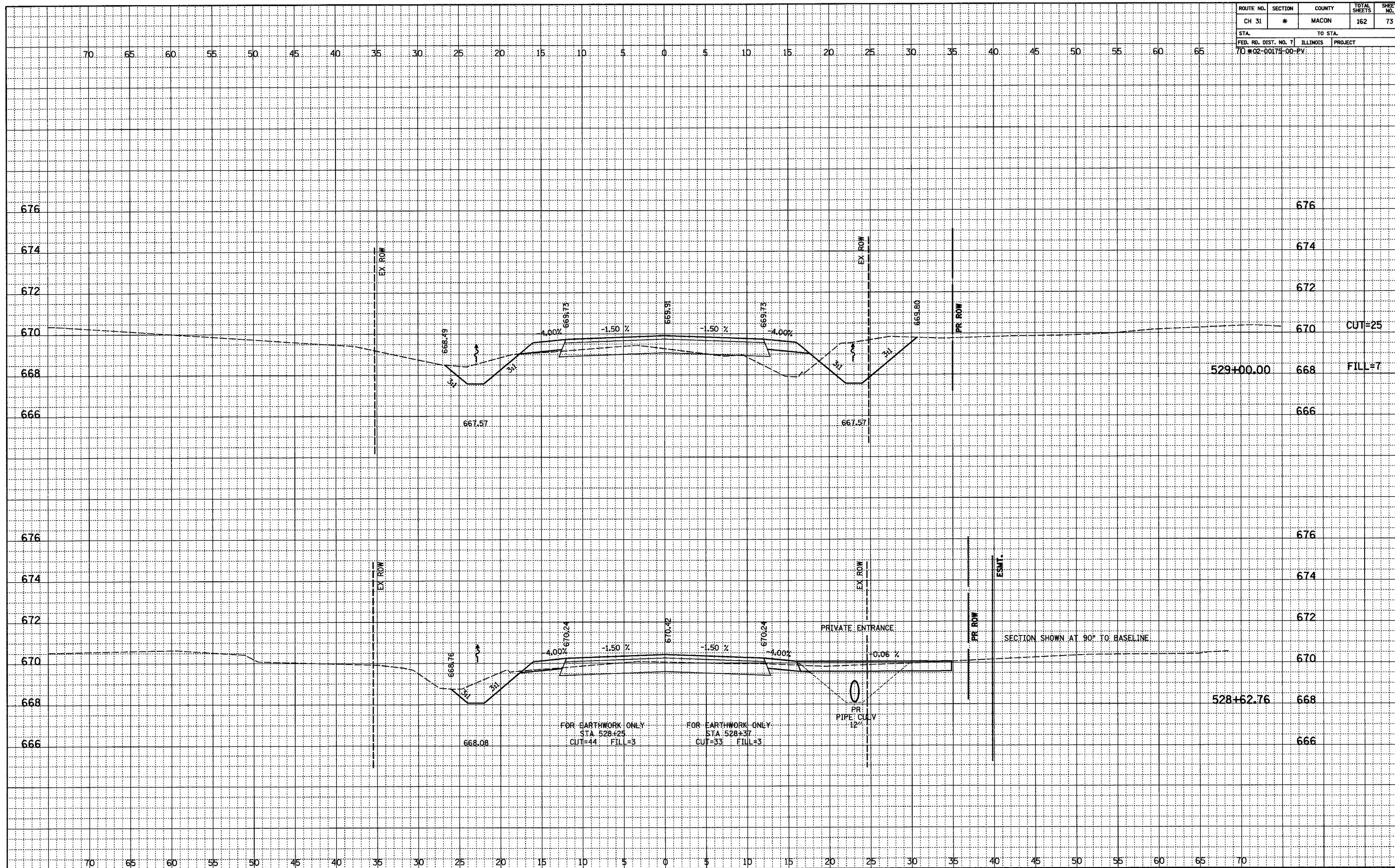
ORIGINAL	SURVEYED	BY	DATE
NO	PLOTTED		
	NOTED		
	CHKD		
	BY		
	NO.		



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	73
STA.		TO STA.		
70+02.00		ILLINOIS	PROJECT	

FINAL	CHECKED	DATE
NO.	BY	

ORIGINAL	CHECKED	DATE
NO.	BY	



FOR EARTHWORK ONLY
 STA 528+25
 CUT=44 FILL=3

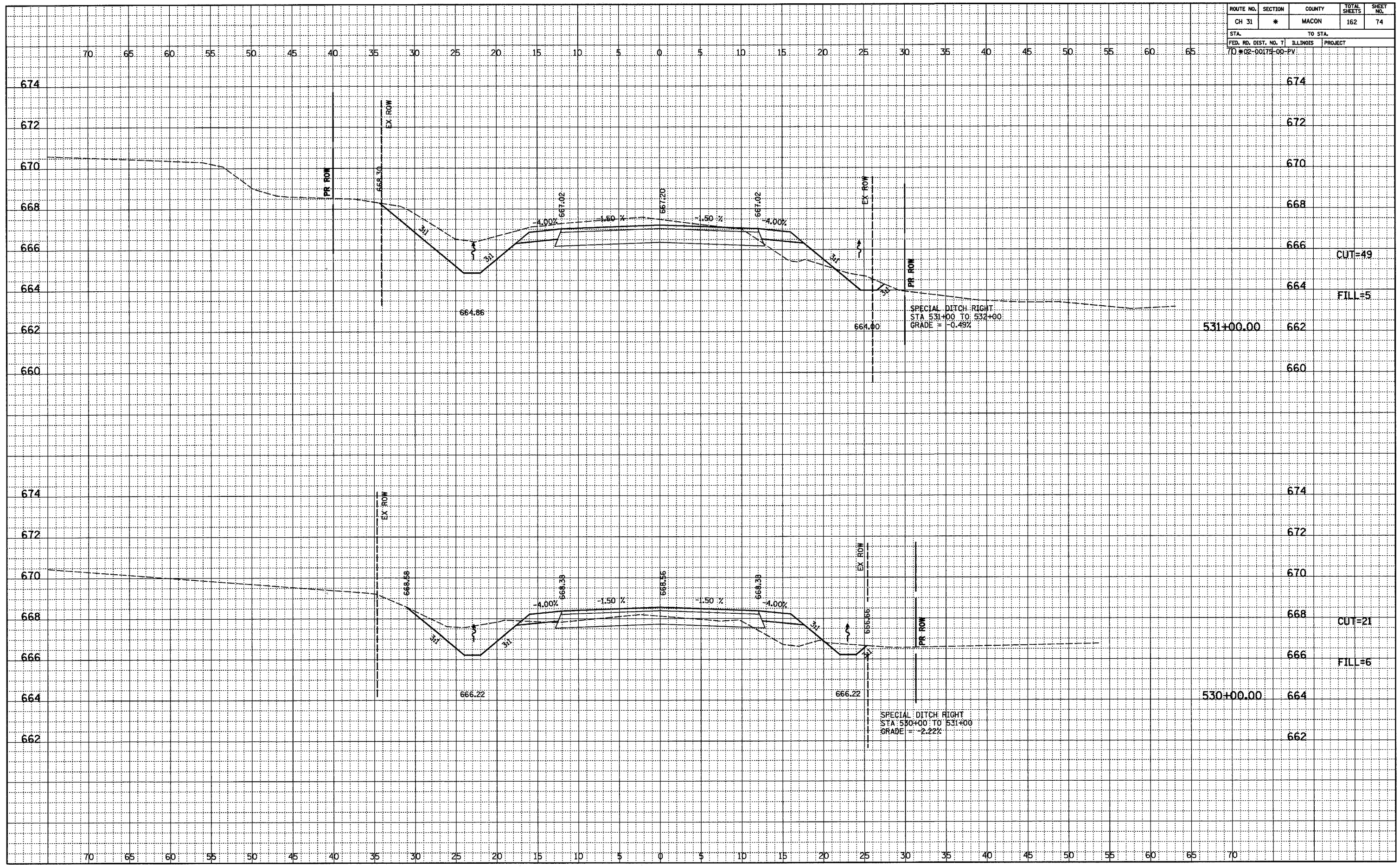
FOR EARTHWORK ONLY
 STA 528+37
 CUT=33 FILL=3

SECTION SHOWN AT 90° TO BASELINE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	74
STA.		TO STA.		
70 #02-00175-00-PV		ILLINOIS PROJECT		

FINAL	ENGINEER	DATE
	DESIGNED	
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

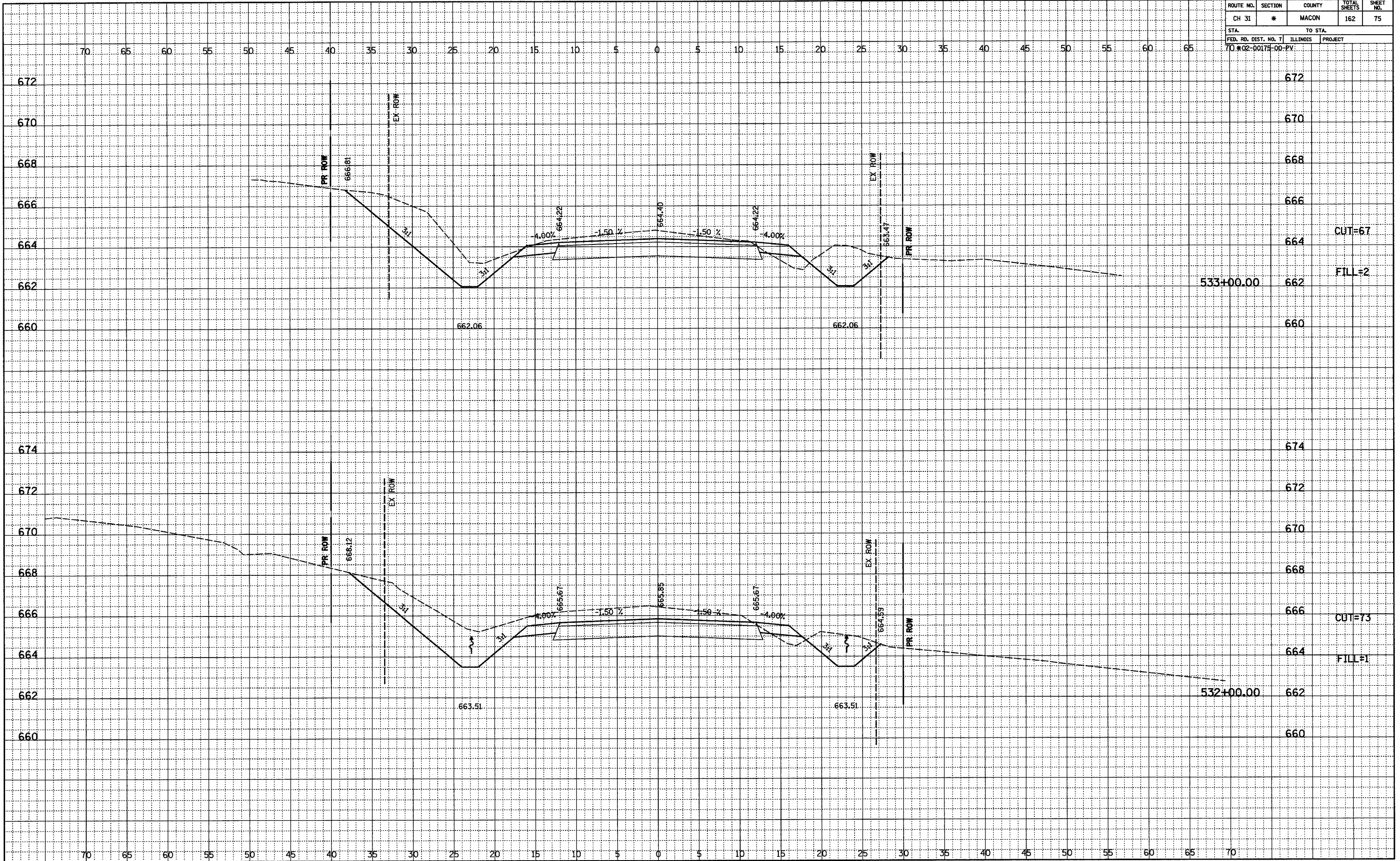
ORIGINAL	ENGINEER	DATE
	DESIGNED	
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	75
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70-02-00175-00-PV				

FINAL	SURVEYED	DATE
NOTED	PLOTTED	
NO.	BY	
	CHECKED	
	BY	
	CHECKED	
	BY	
	CHECKED	

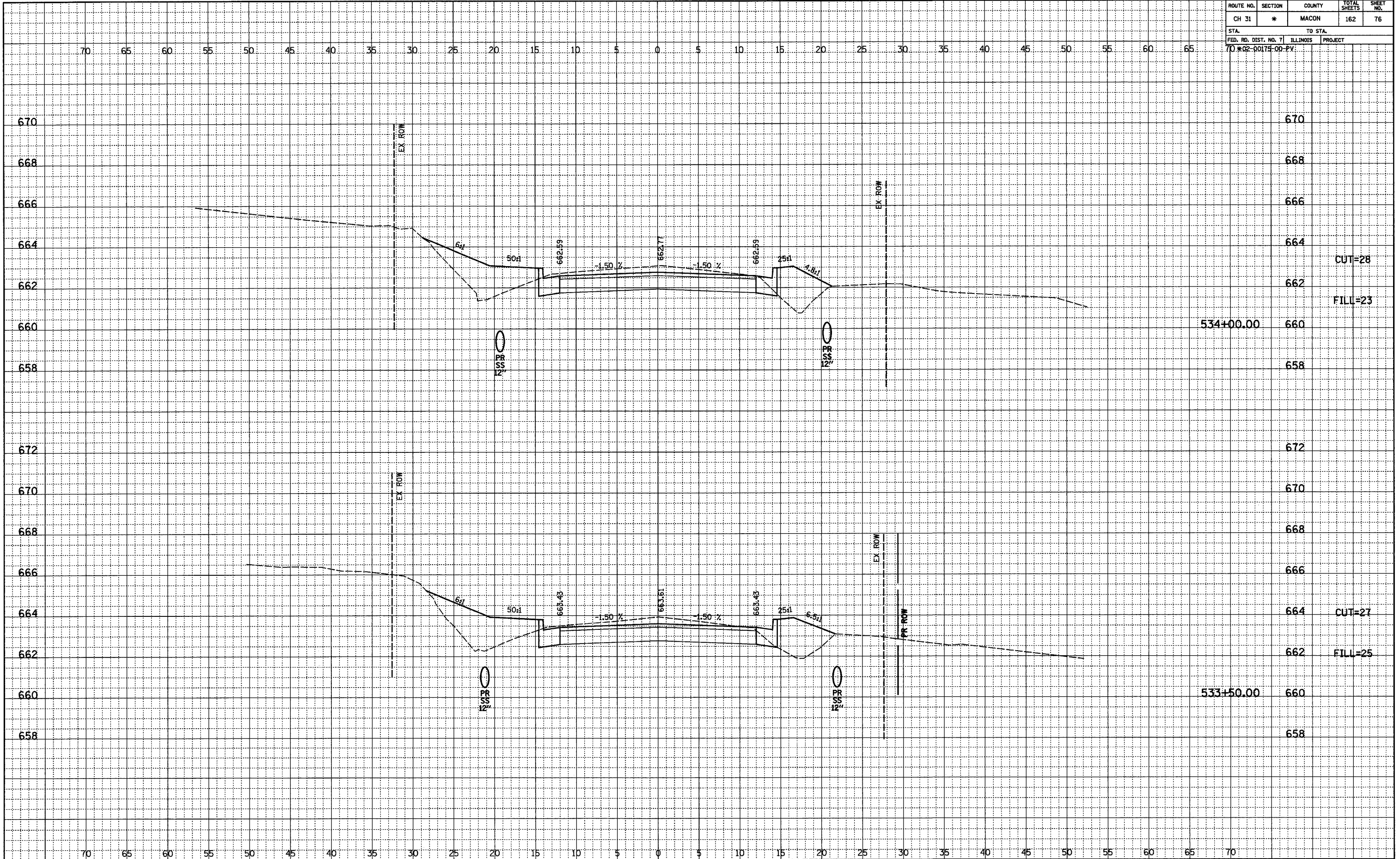
ORIGINAL	SURVEYED	DATE
NOTED	PLOTTED	
NO.	BY	
	CHECKED	
	BY	
	CHECKED	
	BY	
	CHECKED	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	76
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70-02-00174-00-PV				

FINAL	SURVEYED	DATE
NOTED	PLOTTED	BY
NO.	CHKD.	
	BY	
	NO.	

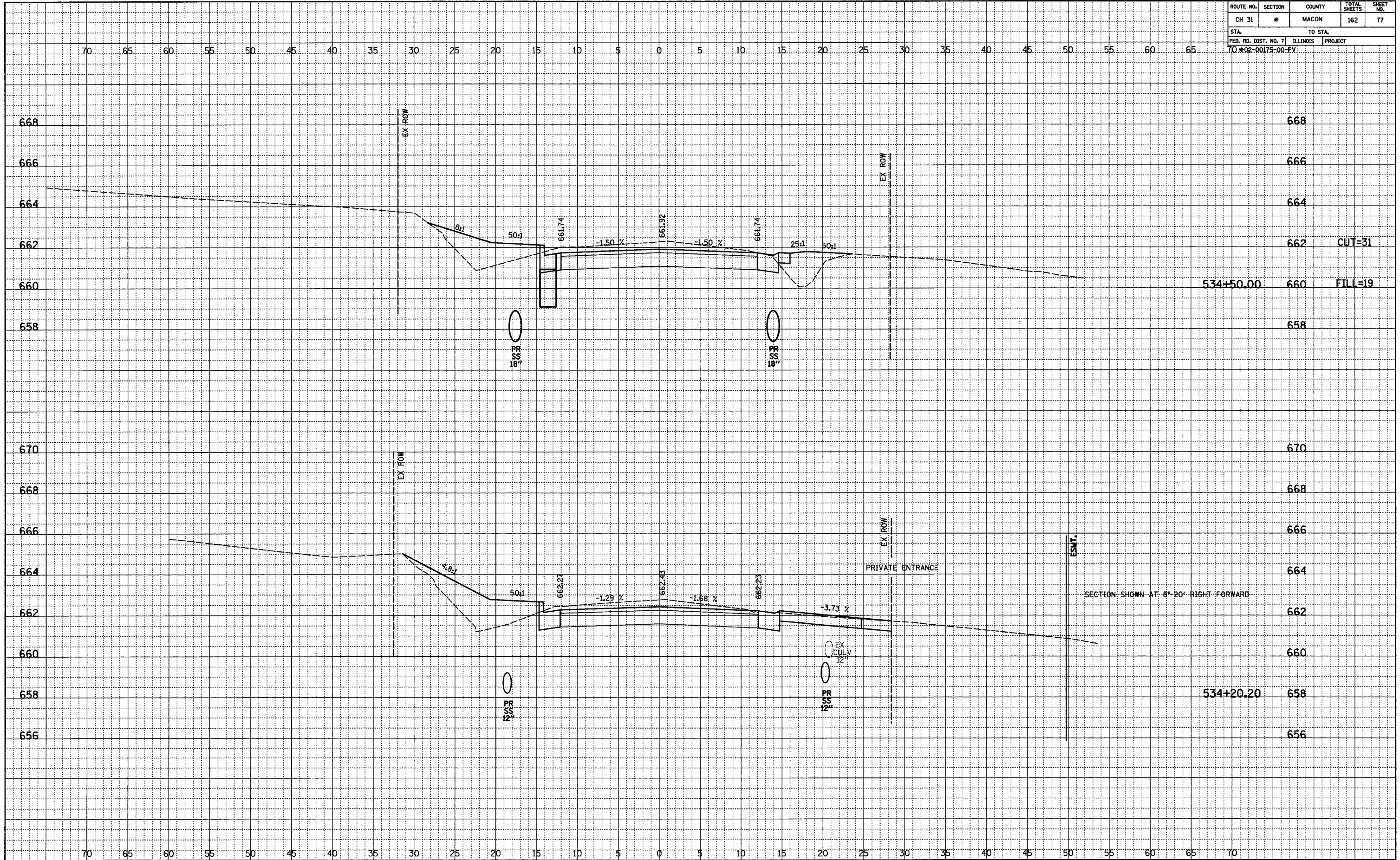
ORIGINAL	SURVEYED	DATE
NOTED	PLOTTED	BY
NO.	CHKD.	
	BY	
	NO.	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	77
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70-02-00175-00-PV				

FINAL	DATE
ENGINEER	
NOTED	
PLOTTED	
ALIGNED	
CHECKED	
BY	
NO.	

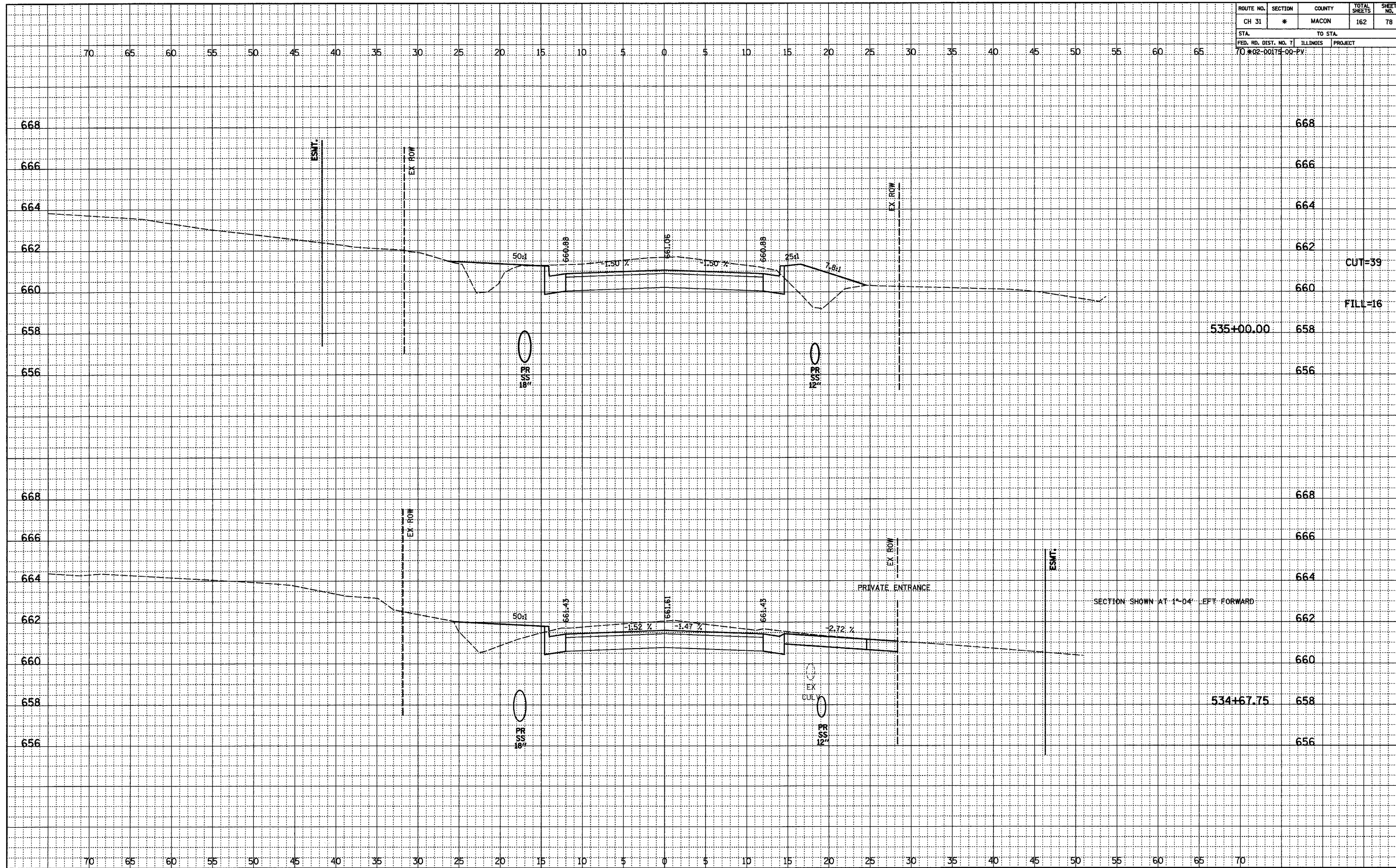
ORIGINAL	DATE
ENGINEER	
NOTED	
PLOTTED	
ALIGNED	
CHECKED	
BY	
NO.	



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	78
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70 #02-00174-00-PV				

FINAL	SURVEYED	BY	DATE
NOTEBOOK	PLOTTED		
NO.	NO.		

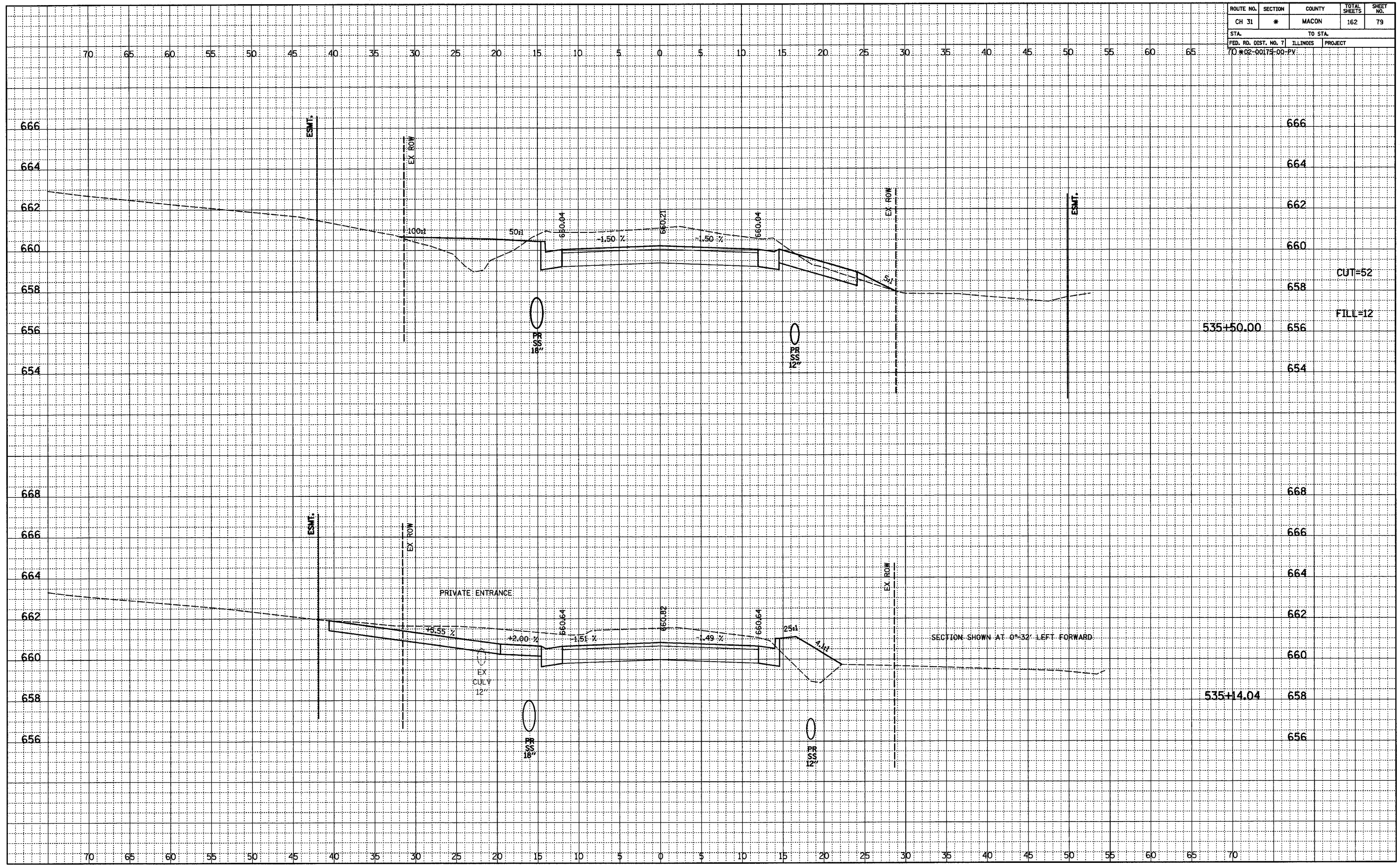
ORIGINAL	SURVEYED	BY	DATE
NOTEBOOK	PLOTTED		
NO.	NO.		



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	79
STA.		TO STA.		
70+02.00		70+00.00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		

FINAL	REVISIONS	DATE
GENERATED		
NOTED		
BY		

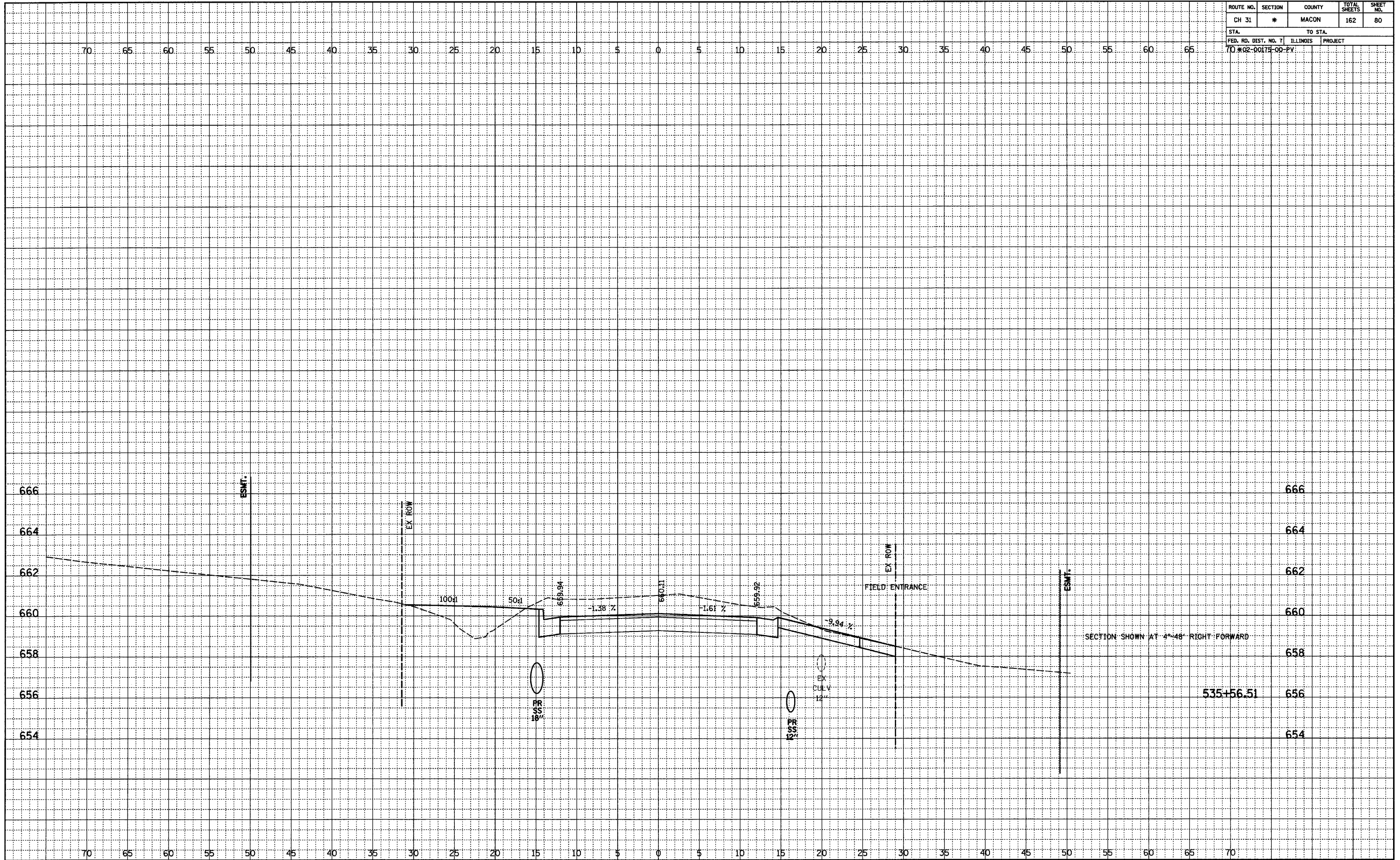
ORIGINAL	REVISIONS	DATE
NOTED		
BY		



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	80
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70 02-00174-00-PV				

FINAL	SURVEYED	BY	DATE
NOTED	PLOTTED		
NO. _____	BY _____		
	CHECKED		
	BY _____		

ORIGINAL	SURVEYED	BY	DATE
NOTED	PLOTTED		
NO. _____	BY _____		
	CHECKED		
	BY _____		



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 31	*	MACON	162	81
STA.		TO STA.		
FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	
70#02-00178-00-PV				

FINAL	SUBMITTED	DATE
NOTED	PLOTTED	BY
NO.	BY	
	BY	
	BY	
	BY	

ORIGINAL	SUBMITTED	DATE
NOTED	PLOTTED	BY
NO.	BY	
	BY	
	BY	
	BY	

