Index Of Sheets

SEE SHEET NO. 1A FOR INDEX OF SHEETS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	86950-3528-04	

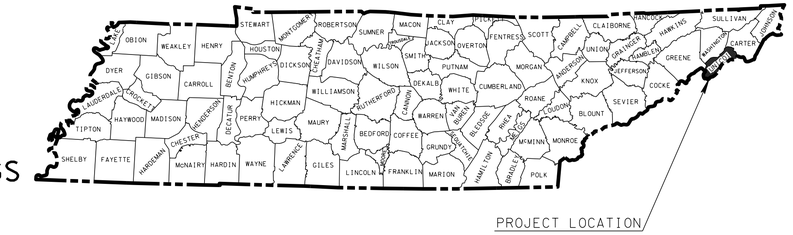
LOCALS ACQUIRING RIGHT-OF-WAY

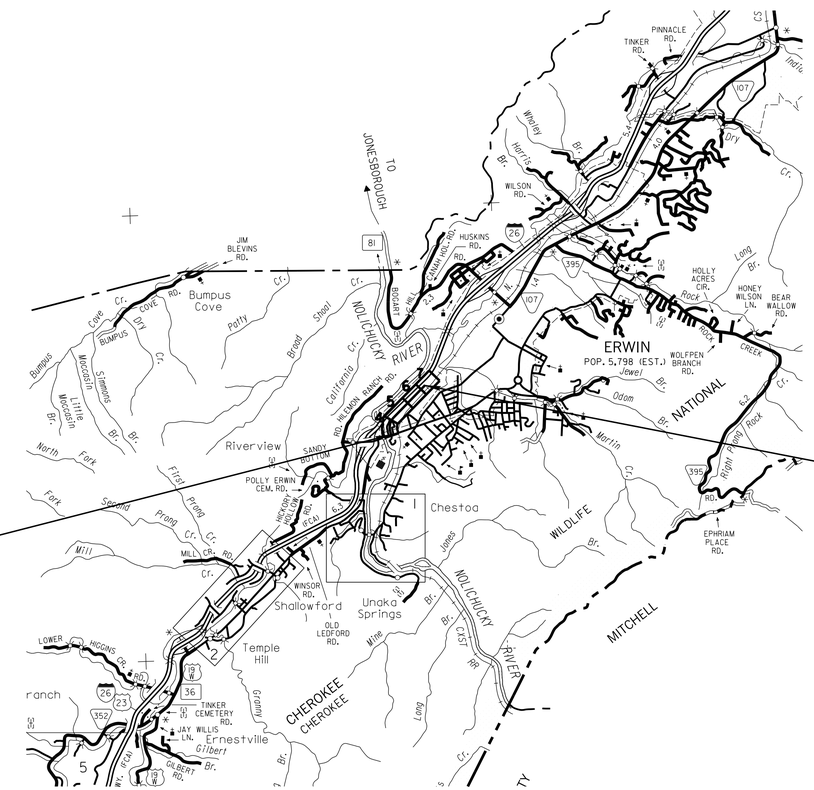
UNICOI COUNTY

S.I.A. SERVING NUCLEAR FUEL SERVICES IN ERWIN

GRADE, DRAIN, PAVE, BASE, SIGNS & PAVEMENT MARKINGS

STATE HIGHWAY NO. N/A F.A.H.S. NO. N/A





SCALE: 1" = 1 MILE

0 1 2 3

ROADWAY LENGTH	0.813 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.813 MILES

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

NO EXCLUSIONS

NO EQUATIONS

APPROVED: Paul D. Degges

PAUL D. DEGGES, CHIEF ENGINEER

DATE:

APPROVED:

JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT DESIGN MANAGER GARY KING
DESIGNED BY TYSINGER, HAMPTON & PARTNERS, INC.
DESIGNER EUGENE COLEMAN, P.E. CHECKED BY TOM PATTON, P.E.
P.E. NO. 86950-1531-04
PIN NO. 116409.00

TRAFFIC DATA

V	30 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

18-MAR-2014 13:06
\\thp-ap\civil data\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\001.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	1A

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

INDEX

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD DRAWINGS INDEX	1A
ESTIMATED ROADWAY QUANTITIES	2 - 2A1
TYPICAL SECTIONS AND PAVING SCHEDULE	2B – 2E
GENERAL NOTES AND SPECIAL NOTES	2F – 2F2
TABULATED QUANTITIES	2G – 2I
PROPERTY MAPS AND RIGHT-OF-WAY ACQUISITION TABLES	3, 3A - 3B
PRESENT LAYOUTS	4 - 7
R.O.W DETAIL	4A - 7A
PROPOSED LAYOUT AND PROFILES	4B - 7B
PROFILE OF PRIVATE DRIVES	8 - 10
DRAINAGE MAPS	11 - 12
CULVERT SECTIONS	13
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS 15A - 18A, 15B - 18B	14 – 18
TRAFFIC CONTROL PLANS WITH CONSTRUCTION PHASING NOTES 21A – 24A, 21B – 24B	19 -24
SIGNING AND PAVEMENT MARKING PLANS	25 -28
SIGN SCHEDULE SHEETS	29
ROADWAY CROSS SECTIONS	30 – 88
STORM WATER POLLUTION PREVENTION PLAN	S-1

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-TS-1A		DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
BOX CULVERT STANDARD DRAWINGS (LRFD)		
STD-17-26		EXTENSION DETAILS
STD-17-51		BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3 '- 6', 0' – 60' FILL

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
DRAINAGE - CULVERTS AND ENDWALL		
D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE, 36" TO 78"
D-PE-5	05-27-01	STANDARD WINGWALLS HORIZONTAL OVAL CONCRETE PIPES
DRAINAGE-CATCH BASINS AND MANHOLES		
D-CB-42RB	09-24-12	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	09-24-12	STANDARD 4' X 4' SQUARE CONCRETE NO.42 CATCH BASIN
D-CB-42SC	09-24-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-MH-2	08-01-12	STANDARD MASONRY & PRECAST NO. 3 MANHOLE
D-MH-3	08-01-12	STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE
D-MH-3A	08-01-12	STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE (96" AND 108" DIA.)
D-MH-3B		STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE (120" DIA.)
D-MH-4	08-01-12	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-MH-6	08-01-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 3 MANHOLE
D-MH-7	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 3 MANHOLE
ROADWAY AND PAVEMENT APPURTENANCES		
RP-D-15	07-15-08	DETAILS OF STANDARD CONCRETE DRIVEWAYS
SAFETY APPURTENANCES AND FENCE		
S-F-10B	05-14-10	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-PL-2		SAFETY PLAN AT SIDE ROADS OR PRIVATE DRIVES
S-GR31-1		W-BEAM GUARDRAIL
S-GRS-2		SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRT-2		TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P		EARTH PAD FOR TYPE 38 TERMINAL
S-GRT-3D		TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GRT-4		TYPE 13 GUARDRAIL TERMINAL (TRAILING END)
TRAFFIC CONTROL APPURTENANCES		
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-S-9	11-01-11	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-16	11-01-11	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-16A	11-01-11	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS

DWG. NO	REV.	DESCRIPTION
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-20	11-01-11	SIGN DETAILS
T-WZ-10	04-02-12	ADVANCE ROADWORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-32	03-03-06	TRAFFIC CONTROL PLAN SIGNAL LAYOUT FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-36	04-02-12	LANE CLOSURE ON LOW-VOLUME 2-LANE HIGHWAY
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-2	08-01-12	SEDIMENT FILTER BAGS
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-11	08-01-12	CULVERT PROCTECTION TYPE 1
EC-STR-11A	08-01-12	CULVERT PROCTECTION TYPE 2
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-37	08-01-12	SEDIMENT TUBE
EC-STR-40		CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-44		CATCH BASIN FILTER ASSEMBLY (TYPE 4)
EC-STR-44A		CATCH BASIN FILTER ASSEMBLY (TYPE 4) SLIPCOVER DETAILS
EC-STR-45		CATCH BASIN FILTER ASSEMBLY (TYPE 5)
EC-STR-45A		CATCH BASIN FILTER ASSEMBLY (TYPE 5) SLIPCOVER DETAILS
STANDARD STRUCTURE DRAWINGS		
STD-10-1	04-08-05	MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD DRAWINGS INDEX

8-MAR-2014 13:06
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\001A.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	201-01	CLEARING AND GRUBBING	LS	1
(1)	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
	202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	415
	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	5739
(2)	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	10334
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	1390
	203-05	UNDERCUTTING	C.Y.	7200
	203-06	WATER	M.G.	11
(3)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	1
(4)	209-05	SEDIMENT REMOVAL	C.Y.	204
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	89
(4)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	200
(4)	209-08.07	ROCK CHECK DAM	EACH	26
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	5
	209-09.01	SANDBAGS	EACH	360
	209-09.04	SEDIMENT FILTER BAG (15'x10')	EACH	1
	209-20.03	POLYETHELENE SHEETING (6 MIL. MINIMUM)	S.Y.	20
	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	10
(4)	209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EACH	9
	209-40.44	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EACH	6
	209-40.45	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EACH	3
(5)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	16497
(4)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	68
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	421
(6)	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	3667
(7)	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	1818
(8)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	29
(9)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	111
(10)	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	5
	411-01.11	ACS MIX(PG64-22) GRADING E RDWY	TON	199
(11)	411-02.10	ACS MIX(PG70-22) GRADING D	TON	1066
(12)	411-02.11	ACS MIX(PG70-22) GRADING E RWDY	TON	262
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	106
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	254
	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	339
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	757
	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1006
	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	297
	607-16.02	30"X 19" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	79
	607-16.04	38"X 24" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	44
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	208
	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	179
	611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	3
	611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	7
	611-01.04	MANHOLES, > 12' - 16' DEPTH	EACH	2
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	17
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	342
	611-38.01	CATCH BASINS, TYPE 38, 0' - 4' DEPTH	EACH	1
	611-38.02	CATCH BASINS, TYPE 38, > 4' - 8' DEPTH	EACH	2
	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	2
	611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	2
	611-42.03	CATCH BASINS, TYPE 42, > 8' - 12' DEPTH	EACH	2

FOOTNOTES

(1) INCLUDES REMOVAL OF 4 L.F. OF 12" PIPE, 372 L.F. OF 15" PIPE, 75 L.F. OF 18" PIPE, 382 L.F. OF 24" PIPE, 425 L.F. OF 30" PIPE, 1 EACH CATCH BASIN, 2 EACH HEADWALLS, 346 L.F. OF GUARDRAIL, 1 EACH GUARDRAIL END TREATMENT, 849 L.F. OF CHAIN LINK FENCE, 14 EACH ROADWAY SIGNS, 7 EACH TREES AND 1,398 C.Y. ASPHALT PAVEMENT. REFER TO SHT. 2G.

(2) INCLUDES 8,280 C.Y. FOR UNDERCUT AND 2,237 C.Y. FOR ROADWAY EMBANKMENT. QUANTITY MAY BE INCREASED, DECREASED OR ELIMINATED AS DETERMINED BY THE ENGINEER.

(3) FOR PLUGGING PIPES UNDER ROADWAY THAT ARE NOT FEASIBLE TO BE REMOVED. QUANTITY MAY BE INCREASED, DECREASED OR ELIMINATED AS DETERMINED BY THE ENGINEER.

(4) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT. ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.

(5) INCLUDES 11,885 TONS FOR S. INDUSTRIAL DRIVE, 243 TONS FOR JACKSON LOVE HIGHWAY, 1,217 TONS FOR DRIVEWAY RAMPS, 396 TONS FOR WALKING TRAIL, 2,556 TONS FOR TRAFFIC CONTROL AND 200 TONS FOR MAINTENANCE.

(6) INCLUDES 2,090 TONS FOR S. INDUSTRIAL DRIVE, 9 TONS FOR JACKSON LOVE HIGHWAY, AND 1,568 TONS FOR TRAFFIC CONTROL.

(7) INCLUDES 1,370 TONS FOR S. INDUSTRIAL DRIVE, 6 TONS FOR JACKSON LOVE HIGHWAY, AND 442 TONS FOR TRAFFIC CONTROL.

(8) INCLUDES 18.4 TONS FOR S. INDUSTRIAL DRIVE, 0.1 TONS FOR JACKSON LOVE HIGHWAY, 3.6 TONS FOR WALKING TRAIL AND 6 TONS FOR TRAFFIC CONTROL.

(9) INCLUDES 72.7 TONS FOR S. INDUSTRIAL DRIVE, 0.2 TONS FOR JACKSON LOVE HIGHWAY, 14.1 TONS FOR WALKING TRAIL AND 23.5 TONS FOR TRAFFIC CONTROL.

(10) INCLUDES 3.7 TONS FOR S. INDUSTRIAL DRIVE, 0.1 TONS FOR JACKSON LOVE HIGHWAY, 1.2 TONS FOR TRAFFIC CONTROL.

(11) INCLUDES 803 TONS FOR S. INDUSTRIAL DRIVE, 4 TONS FOR JACKSON LOVE HIGHWAY, 259 TONS FOR TRAFFIC CONTROL.

(12) INCLUDES 10 TONS FOR JACKSON LOVE HIGHWAY AND 252 TONS FOR WALKING TRAIL.

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
204-01	CULVERT EXCAVATION (UNCLASSIFIED)	C.Y.	4
204-08	FOUNDATION FILL MATERIAL	C.Y.	3
303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	119
604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	11
604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	2002

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

18-MAR-2014 13:07
\\thp-ap\civildata\Jobs-2010\0127030 - Erwin S Ind Drive\Drawings\Construction\002.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	2A1

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	296
	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	132
	701-02	CONCRETE DRIVEWAY	S.F.	4907
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	25
	705-01.04	METAL BEAM GUARD FENCE	L.F.	6.25
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	250
	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	2
	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	1
	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	1
	707-01.01	CHAIN-LINK FENCE (4-FOOT)	L.F.	247
	707-01.02	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 4')	EACH	2
	707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	665
	707-01.12	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 6')	EACH	4
	707-06-04	REMOVAL AND RESET GATE (CHAIN-LINK FENCE 6')	EACH	1
	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	160
(4)(13)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	570
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	2190
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	4330
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	103
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	50
	712-06	SIGNS (CONSTRUCTION)	S.F.	340
	712-06.01	VERTICAL PANELS	S.F.	688
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	168
	713-11.01	"U" SECTION STEEL POSTS	LB.	177
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	85
	713-15.02	REMOVAL & RELOCATION OF SIGN & SUPPORT	EACH	12
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	102
(14)	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	7.5
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	310
	717-01	MOBILIZATION	LS	1
	730-40.01	PORTABLE TRAFFIC SIGNAL SYSTEM	EACH	3
(4)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	1286
	740-11.03	TEMPOARY SEDIMENT TUBE (18 INCH)	L.F.	8520
	740-11.04	TEMPOARY SEDIMENT TUBE (20 INCH)	L.F.	150
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	20
(15)	801-03	WATER (SEEDING & SODDING)	M.G.	133
	803-01	SODDING (NEW SOD)	S.Y.	13300

FOOTNOTES

(13) INCLUDES 483.2 TONS FOR CULVERT PROTECTION AND 86.8 TONS FOR SLOPE PROTECTION.

(14) INCLUDES 3.5 L.M. FOR S. INDUSTRIAL DRIVE AND 4.0 L.M FOR TRAFFIC CONTROL.

(15) INCLUDES 2 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

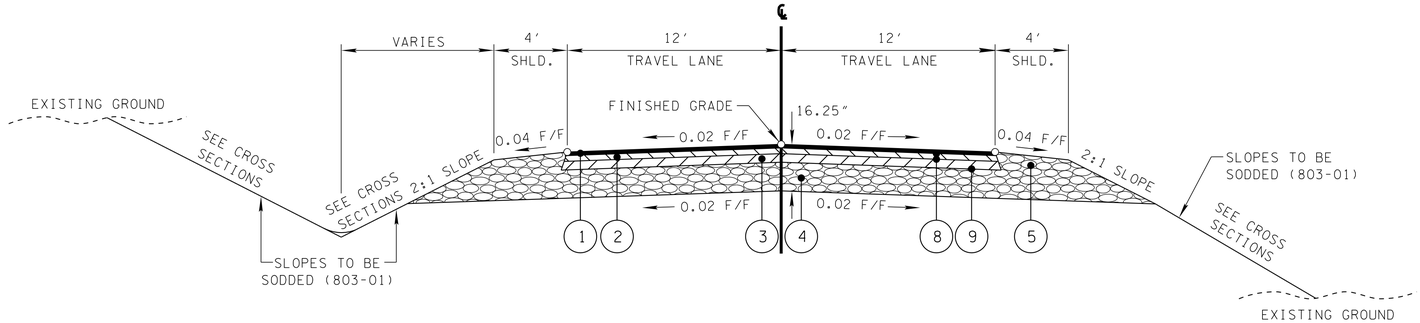
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

18-MAR-2014 13:08
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\002A1.sht

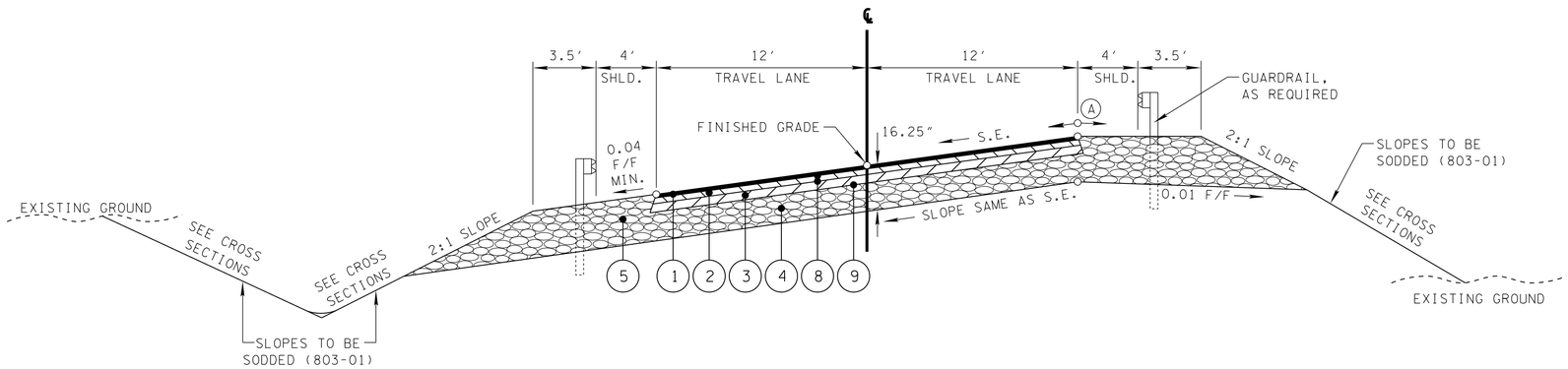
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	2
CONST.	2014	86950-3528-04	2B

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



PROPOSED TYPICAL CROSS-SECTION OF IMPROVEMENT S. INDUSTRIAL DRIVE
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1A)
FROM STA. 13+69.96 TO STA. 14+39.80
FROM STA. 18+58.91 TO STA. 19+46.52
FROM STA. 21+53.44 TO STA. 21+84.48
FROM STA. 29+87.47 TO STA. 29+93.56
FROM STA. 30+93.56 TO STA. 33+35.89



PROPOSED TYPICAL CROSS-SECTION OF IMPROVEMENT S. INDUSTRIAL DRIVE
SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1A)
FROM STA. 10+06.00 TO STA. 10+90.00 TRAVEL LANE VARIES (12' MIN.)
FROM STA. 10+90.00 TO STA. 13+69.96
FROM STA. 14+39.80 TO STA. 18+58.91
FROM STA. 19+46.52 TO STA. 21+53.44
FROM STA. 21+84.48 TO STA. 25+93.22
FROM STA. 29+93.56 TO STA. 30+93.56

PROPOSED PAVEMENT SCHEDULE

1	ASPHALTIC CONCRETE SURFACE AT 1.25 IN. THICK (APPROX. 132.5 LBS/SY) ITEM NO. 411-02.10 ACS MIX (PG70-22) GRADING "D"	5	MINERAL AGGREGATE BASE COURSE AT 16.25 IN. THICK (SHOULDERS) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	9	PRIME COAT ITEM NO. 402-01 BITUMINOUS MATERIAL FROM PRIME COAT (PC) (APPROX. 0.30 - 0.35 GAL/SY) ITEM NO. 402-02 AGGREGATE FOR COVER MATERIAL (PC) (APPROX. 8-12 LBS/SY)
2	BITUMINOUS PLANT MIX BASE AT 2 IN. THICK (APPROX. 226 LBS/SY) ITEM NO. 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2"	6	ASPHALTIC CONCRETE SURFACE AT 2 IN. THICK (TRAIL) (APPROX. 215.0 LBS/SY) ITEM NO. 411-02.11 ACS MIX (PG70-22) GRADING "E"	10	ASPHALTIC CONCRETE SURFACE AT 1.25 IN. THICK (SHOULDER) (APPROX. 134.4 LBS/SY) ITEM NO. 411-02.11 ACS MIX (PG70-22) GRADING "E"
3	BITUMINOUS PLANT MIX BASE AT 3 IN. THICK (APPROX. 345 LBS/SY) ITEM NO. 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A"	7	MINERAL AGGREGATE BASE COURSE AT 3 IN. THICK (TRAIL) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	11	MINERAL AGGREGATE BASE COURSE AT 15 IN. THICK (SHOULDERS) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"
4	MINERAL AGGREGATE BASE COURSE AT 10 IN. THICK (ROADWAY) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	8	TACK COAT ITEM NO. 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (APPROX. 0.02 GAL/SY)	12	UNDERDRAINS (STA. 25+70+/- TO STA. 30+45+/- AND STA. 33+10+/- TO STA. 50+25+/-) ITEM NO. 710-02 AGGREGATE UNDERDRAINS (WITH PIPE)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

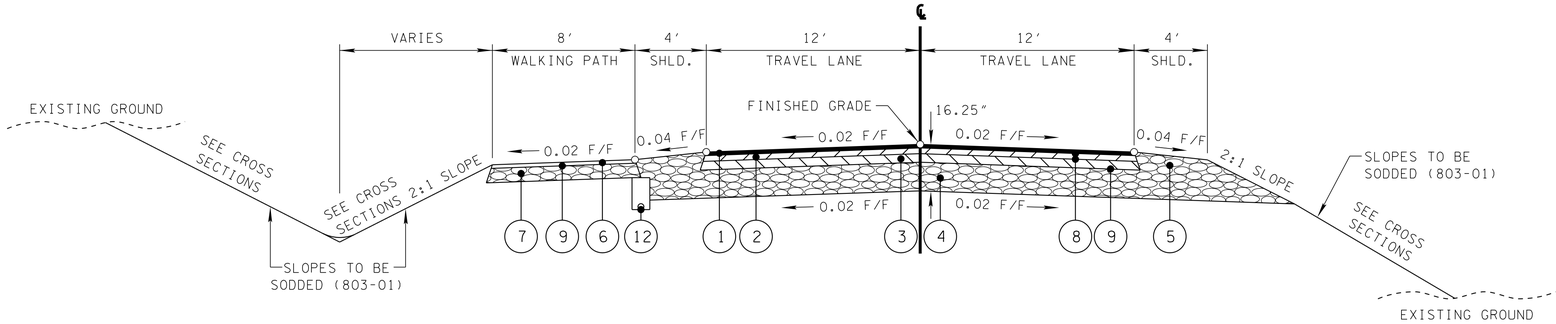
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

18-MAR-2014 13:08
\\thp-dp\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\002B.sht

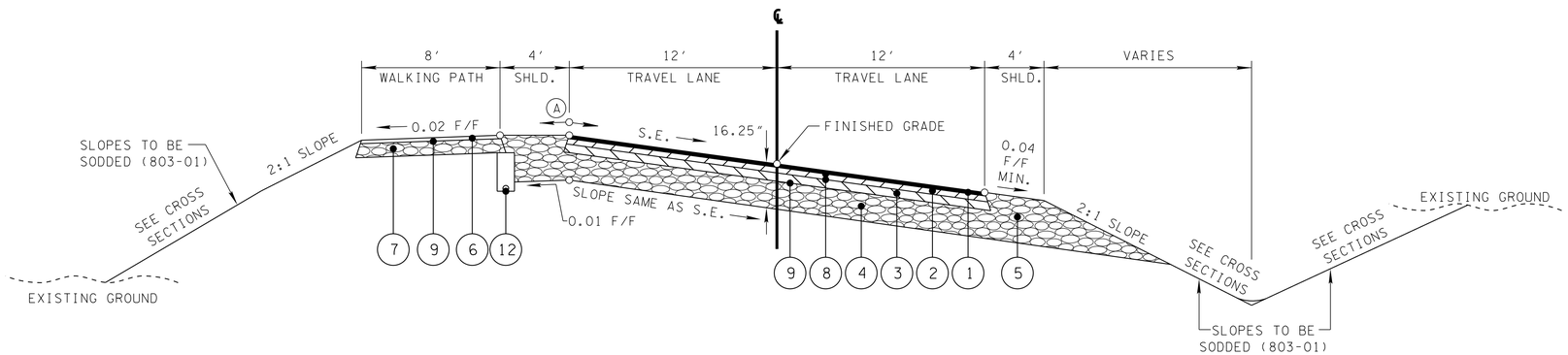
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	2A
CONST.	2014	86950-3528-04	2C

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



PROPOSED TYPICAL CROSS-SECTION OF IMPROVEMENT S. INDUSTRIAL DRIVE
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1A)
FROM STA. 27+27.21 TO STA. 29+87.47
FROM STA. 33+35.89 TO STA. 50+00.00



PROPOSED TYPICAL CROSS-SECTION OF IMPROVEMENT S. INDUSTRIAL DRIVE
SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1A)
FROM STA. 25+93.22 TO STA. 27+27.21

PROPOSED PAVEMENT SCHEDULE

1	ASPHALTIC CONCRETE SURFACE AT 1.25 IN. THICK (APPROX. 132.5 LBS/SY) ITEM NO. 411-02.10 ACS MIX (PG70-22) GRADING "D"	5	MINERAL AGGREGATE BASE COURSE AT 16.25 IN. THICK (SHOULDERS) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	9	PRIME COAT ITEM NO. 402-01 BITUMINOUS MATERIAL FROM PRIME COAT (PC) (APPROX. 0.30 - 0.35 GAL/SY) ITEM NO. 402-02 AGGREGATE FOR COVER MATERIAL (PC) (APPROX. 8-12 LBS/SY)
2	BITUMINOUS PLANT MIX BASE AT 2 IN. THICK (APPROX. 226 LBS/SY) ITEM NO. 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2"	6	ASPHALTIC CONCRETE SURFACE AT 2 IN. THICK (TRAIL) (APPROX. 215.0 LBS/SY) ITEM NO. 411-02.11 ACS MIX (PG70-22) GRADING "E"	10	ASPHALTIC CONCRETE SURFACE AT 1.25 IN. THICK (SHOULDER) (APPROX. 134.4 LBS/SY) ITEM NO. 411-02.11 ACS MIX (PG70-22) GRADING "E"
3	BITUMINOUS PLANT MIX BASE AT 3 IN. THICK (APPROX. 345 LBS/SY) ITEM NO. 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A"	7	MINERAL AGGREGATE BASE COURSE AT 3 IN. THICK (TRAIL) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	11	MINERAL AGGREGATE BASE COURSE AT 15 IN. THICK (SHOULDERS) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"
4	MINERAL AGGREGATE BASE COURSE AT 10 IN. THICK (ROADWAY) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	8	TACK COAT ITEM NO. 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (APPROX. 0.02 GAL/SY)	12	UNDERDRAINS (STA. 25+70+/- TO STA. 30+45+/- AND STA. 33+10+/- TO STA. 50+25+/-) ITEM NO. 710-02 AGGREGATE UNDERDRAINS (WITH PIPE)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

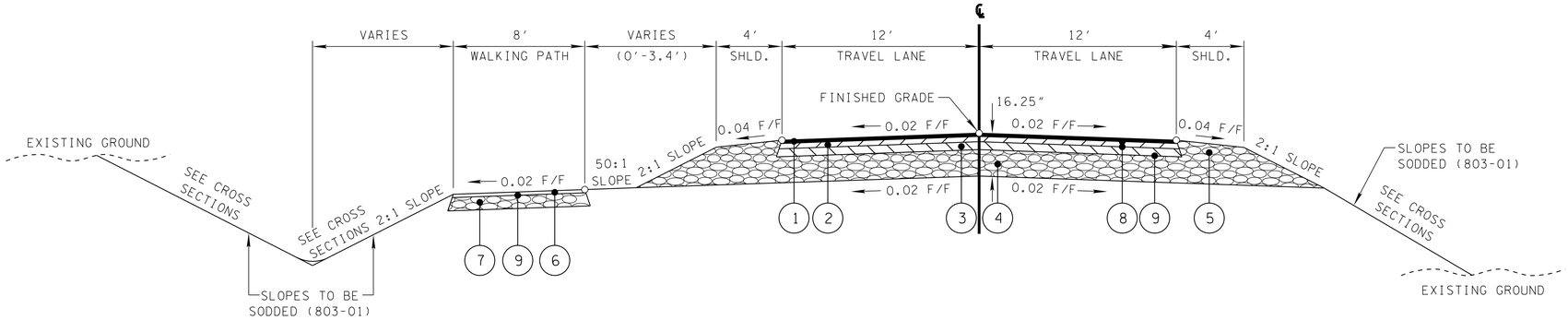
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

18-MAR-2014 13:08
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\002C.sht

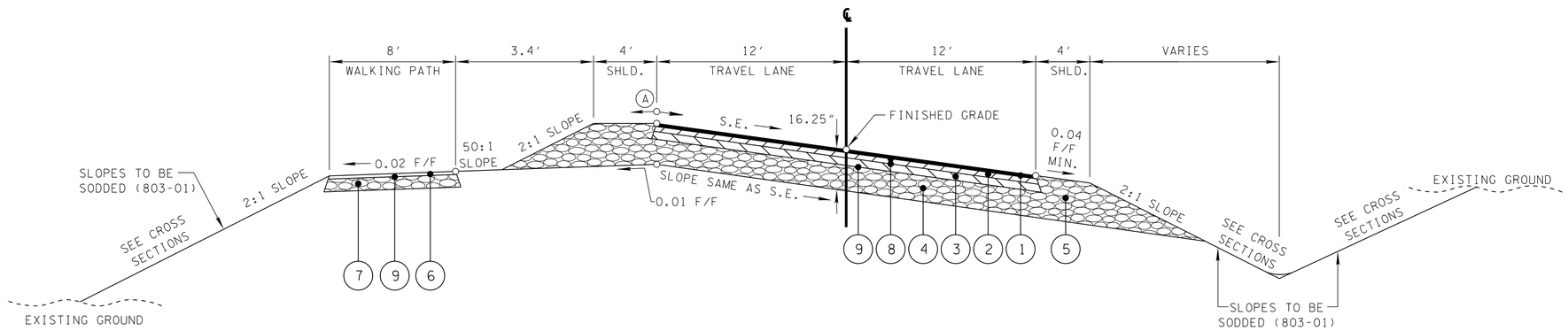
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	2B
CONST.	2014	86950-3528-04	2D

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



PROPOSED TYPICAL CROSS-SECTION OF IMPROVEMENT S. INDUSTRIAL DRIVE
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1A)
FROM STA. 50+00.00 TO STA. 50+59.11



PROPOSED TYPICAL CROSS-SECTION OF IMPROVEMENT S. INDUSTRIAL DRIVE
SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1A)
FROM STA. 50+59.11 TO STA. 52+80.43

PROPOSED PAVEMENT SCHEDULE

(1) ASPHALTIC CONCRETE SURFACE AT 1.25 IN. THICK (APPROX. 132.5 LBS/SY) ITEM NO. 411-02.10 ACS MIX (PG70-22) GRADING "D"	(5) MINERAL AGGREGATE BASE COURSE AT 16.25 IN. THICK (SHOULDERS) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	(9) PRIME COAT ITEM NO. 402-01 BITUMINOUS MATERIAL FROM PRIME COAT (PC) (APPROX. 0.30 - 0.35 GAL/SY) ITEM NO. 402-02 AGGREGATE FOR COVER MATERIAL (PC) (APPROX. 8-12 LBS/SY)
(2) BITUMINOUS PLANT MIX BASE AT 2 IN. THICK (APPROX. 226 LBS/SY) ITEM NO. 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2"	(6) ASPHALTIC CONCRETE SURFACE AT 2 IN. THICK (TRAIL) (APPROX. 215.0 LBS/SY) ITEM NO. 411-02.11 ACS MIX (PG70-22) GRADING "E"	(10) ASPHALTIC CONCRETE SURFACE AT 1.25 IN. THICK (SHOULDER) (APPROX. 134.4 LBS/SY) ITEM NO. 411-02.11 ACS MIX (PG70-22) GRADING "E"
(3) BITUMINOUS PLANT MIX BASE AT 3 IN. THICK (APPROX. 345 LBS/SY) ITEM NO. 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A"	(7) MINERAL AGGREGATE BASE COURSE AT 3 IN. THICK (TRAIL) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	(11) MINERAL AGGREGATE BASE COURSE AT 15 IN. THICK (SHOULDERS) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"
(4) MINERAL AGGREGATE BASE COURSE AT 10 IN. THICK (ROADWAY) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	(8) TACK COAT ITEM NO. 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (APPROX. 0.02 GAL/SY)	(12) UNDERDRAINS (STA. 25+70+/- TO STA. 30+45+/- AND STA. 33+10+/- TO STA. 50+25+/-) ITEM NO. 710-02 AGGREGATE UNDERDRAINS (WITH PIPE)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

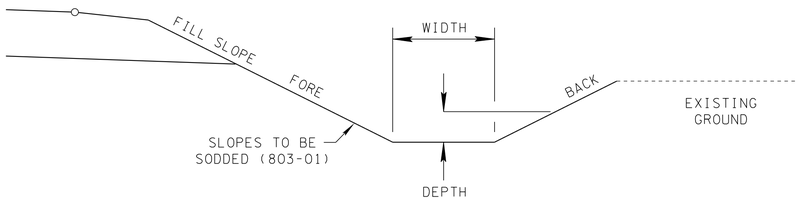
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

18-MAR-2014 13:08
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\002D.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

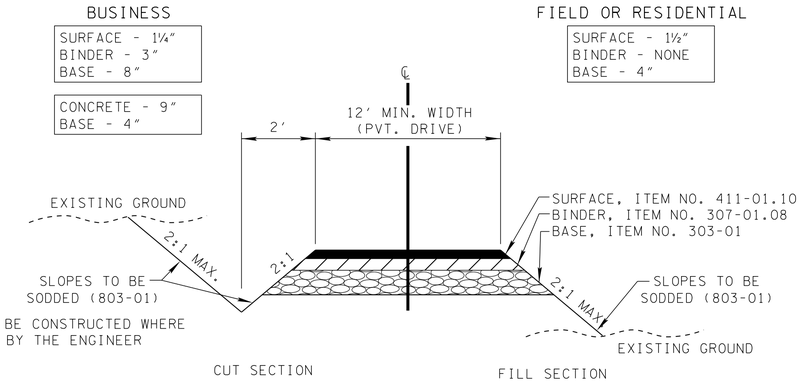
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	2C
CONST.	2014	86950-3528-04	2E



TYPICAL "TRAPEZOIDAL" DITCH

SEE TABLE FOR DITCH LOCATION

LOCATION	STATION		SLOPE		WIDTH (MIN.)	DEPTH (MIN.)	LINING
	FROM	TO	FORE	BACK			
JACKSON LOVE HWY.	102+55 LT	103+97 LT	2:1	2:1	2′	1.5′	SOD
MAINLINE	23+45 RT	28+50 RT	3:1	3:1	2′	1.5′	SOD
MAINLINE	28+50 RT	28+68 RT	3:1	3:1	2′	1.5′	SOD
MAINLINE	29+32 RT	29+89 RT	3:1	3:1	2′	1.5′	SOD
MAINLINE	31+20 RT	35+18 RT	2:1	2:1	2′	0.75′	SOD
MAINLINE	32+30 LT	32+95 LT	2:1	2:1	2′	0.75′	SOD
MAINLINE	36+50 RT	44+00 RT	2:1	2:1	2′	0.75′	SOD
MAINLINE	44+00 RT	44+45 RT	2:1	2:1	2′	0.75′	SOD
MAINLINE	46+05 RT	48+00 RT	2:1	2:1	2′	1.5′	SOD
MAINLINE	48+00 RT	48+95 RT	2:1	2:1	2′	1.5′	SOD



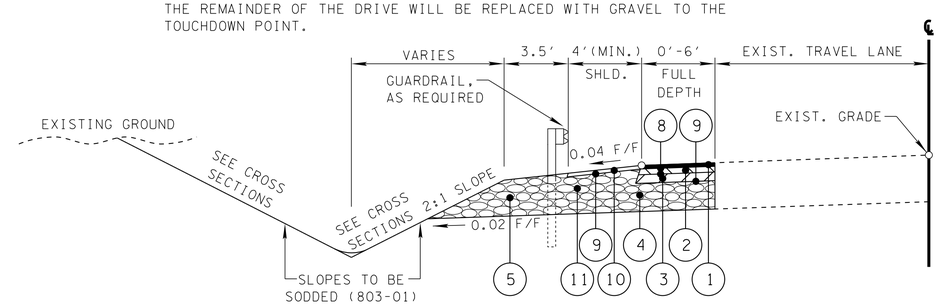
NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS, FIELD, OR RESIDENTIAL PROPERTY

NOTES:

1. DRIVEWAY DESIGN SHALL BE IN ACCORDANCE WITH THE STATE OF TENNESSEE RULES AND REGULATIONS FOR CONSTRUCTION OF DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY.
2. IF AN EXISTING DRIVE IS GREATER THAN 10 FEET, THE WIDTH OF THE PROPOSED DRIVE SHALL BE EQUAL TO THE EXISTING WIDTH; BUT NOT GREATER THAN THE MAXIMUM ALLOWABLE WIDTH AS SPECIFIED IN THE RULES AND REGULATIONS.
3. IF EXISTING DRIVE IS GRAVEL, SURFACING WILL BE FOR ONE SHOULDER WIDTH. THE REMAINDER OF THE DRIVE WILL BE REPLACED WITH GRAVEL TO THE TOUCHDOWN POINT.



PROPOSED TYPICAL CROSS-SECTION OF IMPROVEMENT JACKSON LOVE HWY.

FROM STA. 100+43.54 TO STA. 104+35.67

PROPOSED PAVEMENT SCHEDULE

1 ASPHALTIC CONCRETE SURFACE AT 1.25 IN. THICK (APPROX. 132.5 LBS/SY) ITEM NO. 411-02.10 ACS MIX (PG70-22) GRADING "D"	5 MINERAL AGGREGATE BASE COURSE AT 16.25 IN. THICK (SHOULDERS) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	9 PRIME COAT ITEM NO. 402-01 BITUMINOUS MATERIAL FROM PRIME COAT (PC) (APPROX. 0.30 - 0.35 GAL/SY) ITEM NO. 402-02 AGGREGATE FOR COVER MATERIAL (PC) (APPROX. 8-12 LBS/SY)
2 BITUMINOUS PLANT MIX BASE AT 2 IN. THICK (APPROX. 226 LBS/SY) ITEM NO. 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2"	6 ASPHALTIC CONCRETE SURFACE AT 2 IN. THICK (TRAIL) (APPROX. 215.0 LBS/SY) ITEM NO. 411-02.11 ACS MIX (PG70-22) GRADING "E"	10 ASPHALTIC CONCRETE SURFACE AT 1.25 IN. THICK (SHOULDER) (APPROX. 134.4 LBS/SY) ITEM NO. 411-02.11 ACS MIX (PG70-22) GRADING "E"
3 BITUMINOUS PLANT MIX BASE AT 3 IN. THICK (APPROX. 345 LBS/SY) ITEM NO. 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A"	7 MINERAL AGGREGATE BASE COURSE AT 3 IN. THICK (TRAIL) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	11 MINERAL AGGREGATE BASE COURSE AT 15 IN. THICK (SHOULDERS) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"
4 MINERAL AGGREGATE BASE COURSE AT 10 IN. THICK (ROADWAY) ITEM NO. 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	8 TACK COAT ITEM NO. 403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) (APPROX. 0.02 GAL/SY)	12 UNDERDRAINS (STA. 25+70+/- TO STA. 30+45+/- AND STA. 33+10+/- TO STA. 50+25+/-) ITEM NO. 710-02 AGGREGATE UNDERDRAINS (WITH PIPE)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

18-MAR-2014 13:08
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\002E.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	2F

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE 0F THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

(3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.

(2) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

(3) ITEM NO. 803-01, SODDING, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(2) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

(3) GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(2) EXCAVATION FOR PIPE CULVERTS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).

(3) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(4) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.

(5) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

UTILITIES

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

(3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

FENCING

(1) LOCATION OF THE FENCE SHALL BE ONE FOOT INSIDE THE RIGHT-OF-WAY EXCEPT WHERE SHOWN ON THE PLANS.

(2) FENCES SHALL BE TURNED IN AT DRAINAGE STRUCTURES, STOCK PASSES AND BRIDGES WHERE DIRECTED BY THE ENGINEER SO AS TO ABUT WINGWALLS AND/OR ABUTMENTS.

(3) THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS TWO WEEKS NOTICE PRIOR TO CUTTING FENCES.

MISCELLANEOUS

(1) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.

(2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.

(3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA

ROAD CLOSURE

(1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

(1) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), L.M.

FINAL PAVEMENT MARKING IF REFLECTORIZED PAINT IS USED

(2) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 PAINTED PAVEMENT MARKING (4IN LINE), L.M.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(3) THE PAVEMENT MARKING ON THE LANE SHIFTS FOR EDGELINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, LIN. MI.

(4) BEFORE OPENING THE LANE SHIFT TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM 712-09.01 REMOVABLE PAVEMENT MARKING LINE, LIN. FT. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM.

PAVEMENT

PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

(2) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

RIPRAP

(1) MACHINED RIPRAP SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS.

SIGNING

(1) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

(2) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

(3) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

18-MAR-2014 13:08
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\002F.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	2F1

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

GENERAL NOTES (CONT.)

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF A OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE.. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

(1) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

(2) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.

(3) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

(4) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.

(5) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

(6) NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

SEDIMENT CONTROL

(1) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

(2) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

(3) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL- VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

(4) CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND CONTROL EROSION.

(5) FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

(6) IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EPSC MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE SWPPP. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

(7) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED, TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

(8) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

STREAM/WETLAND

(1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS IN ACCORDANCE WITH TDOT STANDARDS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED. AND EXTEND M E WIDTH OF THE AREA TO BE CLEARED

(2) THE OPERATION OF EQUIPMENT IN WATERS 0FTHE STATE/U.S., INCLUDING WETLANDS, SHALL BE ONLY AS SHOWN ON THE PROJECT PLANS AND/OR AS SO SPECIFIED IN THE ARAP/401. SECTION 404 PERMIT(S) AND/OR TVA26(A), IF APPLICABLE. ANY ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN. AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.

(3) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.

SPECIES

(1) NO ACTIVITY MAY SUBSTANITIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA. THE SWPPP SHALL BE MODIFIED TO INCLUDE EPSC MEASURES TO PREVENT NEGATIVE IMPACTS TO LEGALLY PROTECTED STATE OR FEDERAL FAUNA OR FLORA OR AS INDICATED IN THE ECOLOGICAL STUDIES OR ON THE PERMIT(S).

INSPECTION, MAINTENANCE, REPAIR

(1) EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.

(2) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES/STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS.SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR. THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

(3) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

(4) THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY LINEAR MILE AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EPSC INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS. RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

(5) INSPECTION OF EPSC MEASURES SHALL BE DONE AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE/QUALITY CONTROL SITE ASSESSMENT OF EPSC SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION'S COMPREHENSIVE INSPECTION OFFICE GUIDELINES.

(6) OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

(7) UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION HEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

18-MAR-2014 13:10
\\thp-ap\civildata\Jobs-2010\0\02703C - Erwin S Ind Drive\Drawings\Construction\002Flsht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	2F2

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

(8) THE TDOT PROJECT SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

MATERIALS

(1) WASTE AND BORROW AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

SWPPP, PERMITS, PLANS, RECORDS

(1) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.

(2) ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER. THE ENVIRONMENTAL DIVISION, ROADWAY DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(3) THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE: DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EPSC INSPECTION RECORDS, QUALITY ASSURANCE SITE ASSESSMENT RECORDS, PRECIPITATION RECORDS, SWPPP, PROJECT ENVIRONMENTAL PERMITS, AND A COPY OF THE PROJECT EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION.

(4) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BREIF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

(5) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS OR MODIFICATIONS OF THE SWPPP ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(6) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SORCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS. A COPY OF ANY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SWPPP.

(7) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER A CHANGE IN CHEMICAL TREATMENT METHODS IS MADE INCLUDING USE OF A DIFFERENT CHEMICAL, DIFFERENT DOSAGE OR APPLICATION RATE, OR A DIFFERENT AREA OF APPLICATION.

(8) IF A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION) THE SWPPP SHALL BE MODIFIED OR UPDATED.

(9) PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EPSC PLANS SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. A COPY OF CERTIFICATION RECORDS FOR THE COURSES SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST..

LITTER, DEBRIS, WASTE, PETROLEUM

(1) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.

(2) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

SPECIAL NOTES

GRADING

(1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.

(2) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

(3) EARTHWORK IS PAID FOR UNDER ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

(5) EARTHWORK IS PAID FOR UNDER ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT ASPROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS. .

EROSION PREVENTION AND SEDIMENT CONTROL NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 14, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

8-MAR-2014 14:21
\\THP-AP\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\002F2.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	2G

REMOVAL OF STRUCTURES AND OBSTRUCTIONS (ITEM 202-01)

SHEET NO.	STATION	LOCATION	DESCRIPTION	REMARKS
4	100+41 TO 100+85	22.2' LT	46 LF OF GUARDRAIL	INCL. TERMINAL
4	10+06	70.5' LT	WINGWALL	5'x6' BOX CULVERT
4	10+22	94.8' LT	WINGWALL	42" RCP
4	10+31	31.7' RT	TRAFFIC SIGN	
4	10+70	21.6' RT	BRICK MAILBOX	
4	10+66 TO 13+55	34' LT +/-	CHAIN LINK FENCE W/ GATE	
4	12+28	18' RT	TRAFFIC SIGN	
4	13+46	29' RT	18 LF OF 15" STORM DRAINAGE PIPE	
4	15+63 TO 16+47	40' RT	7 EA TREES	
4	16+86	37' RT	18 LF OF 15" STORM DRAINAGE PIPE	
4	17+80	38' RT	60 LF OF 15" STORM DRAINAGE PIPE	
4	19+69	41' RT	60 LF OF 15" STORM DRAINAGE PIPE	
5	23+08	35' RT	70 LF OF 24" STORM DRAINAGE PIPE	
5	23+88	29' LT	TRAFFIC SIGN	
5	26+70	21' LT	TRAFFIC SIGN	
5	28+21	21' LT	TRAFFIC SIGN	
5	28+84.87	34' RT	TRAFFIC SIGN	
5	29+00	9.36' LT	42 LF OF 24" STORM DRAINAGE PIPE	
5	29+31	22' RT	77 LF OF 15" STORM DRAINAGE PIPE	
5	29+81	32' RT	TRAFFIC SIGN	
5	33+94	9' RT	TRAFFIC SIGN	
5	32+96 TO 35+96	18' LT	300 LF OF GUARDRAIL	
5 & 6	34+37	18' LT	TRAFFIC SIGN	
6	34+61	20' RT	14 LF OF 15" STORM DRAINAGE PIPE	
6	35+72	19' RT	125 LF OF 15" STORM DRAINAGE PIPE	
6	37+69	21' RT	22 LF OF 24" STORM DRAINAGE PIPE	
6	38+04	25' RT	4 LF OF 12" STORM DRAINAGE PIPE	
6	38+10 TO 44+54	31' RT+/-	CHAIN LINK FENCE	
6	42+28	14' LT	TRAFFIC SIGN	
6	44+64	0'	69 LF OF 24" STORM DRAINAGE PIPE	
6	44+72	22' RT	40 LF OF 24" STORM DRAINAGE PIPE	
6	44+79	19' LT	CATCH BASIN	
6	45+61	25' RT	45 LF OF 24" STORM DRAINAGE PIPE	
6	46+39	15' RT	TRAFFIC SIGN	
6	46+86	0'	52 LF OF 24" STORM DRAINAGE PIPE	
6	44+79 TO 49+00	27' LT+/-	425 LF OF 30" STORM DRAINAGE PIPE	
6 & 7	49+30	18' LT	TRAFFIC SIGN	
7	49+51	23' RT	42 LF OF 24" STORM DRAINAGE PIPE	
7	50+60	19' RT	75 LF OF 18" STORM DRAINAGE PIPE	
7	51+48	13' RT	TRAFFIC SIGN	
7	51+97	18' LT	TRAFFIC SIGN	
4-7	10+06 TO 52+99.18	N/A	1,398 C.Y. PAVEMENT	

EARTHWORK

EXC. (UNCL.) COMMON 3,955 C.Y. (INCLUDES 2,477 C.Y. FROM S. INDUSTRAIL DR. (1,681 C.Y. ASP. PVMT.); 24 C.Y. FROM JACKSON LOVE HWY.; 2,146 C.Y. TOPSOIL AND 289 C.Y. FROM PRIVATE DRIVES)

EMBANKMENT 3,028 C.Y. (INCL. 2,323 C.Y. FROM S. INDUSTRIAL DR.; 656 C.Y. FROM JACKSON LOVE HWY. AND 49 C.Y. FROM PRIVATE DRIVES)

SHR. 15%
SW. 5%

$\frac{1,109}{1.15}$ C.Y. VS. 3,028 C.Y.

964 C.Y. VS. 3,028 C.Y.

2,064 C.Y. BORROW EXCAVATION

ESTIMATED GRADING QUANTITIES

STATION TO STATION	ROAD AND DRAINAGE EXC. (UNCL.) C.Y.	BORROW EXCAVATION (1) UNCL. - C.Y.	BORROW EXCAVATION S. ROCK - C.Y.	CHANNEL EXC. (C.Y.)	EXCESS EXC. WASTE (2) C.Y.	EMB. (C.Y.)
10+06 T0 52+99.18 (S. INDUSTRIAL DR.)	3786	1429			2451	2372
100+43.54 TO 104+35.67 (JACKSON LOVE HWY.)	169	635				656
TOTALS	**3955**	**2064**	**0**	**0**	**2451**	**3028**

(1) QUANTITY MAY BE INCREASED, DECREASED OR ELIMINATED AS DETERMINED BY THE ENGINEER UPON INSPECTION OF THE AVAILABLE EXCAVATED MATERIAL DEEMED SUITABLE TO BE USED IN THE EMBANKMENT.
(2) QUANTITY IS ESTIMATED TO INCLUDE 1,681 C.Y. OF EXIST. PVMT. AND 770 C.Y. OF TOPSOIL.

ESTIMATED GRADING QUANTITIES (PHASE 1)

STATION TO STATION	ROAD AND DRAINAGE EXC. (UNCL.) C.Y.	BORROW EXCAVATION UNCL. - C.Y.	BORROW EXCAVATION S. ROCK - C.Y.	CHANNEL EXC. (C.Y.)	EXCESS EXC. WASTE C.Y.	EMB. (C.Y.)
TEMPORARY RUNAROUND	2073				45	898
TOTALS	**2073**	**0**	**0**	**0**	**45**	**898**

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

BOX CULVERT TABULATION

STATION	LOCATION	SPAN	HEIGHT	LENGTH	SKEW	DRAINAGE AREA ACRES	BOX CULVERT BOX CLASS "A" CONC. CU. YD.	BOX REINF. STEEL LBS.	APRON CLASS "A" CONC. CU. YD.	APRON WIRE FABRIC LBS.	APRON STEEL BAR REINF. LBS.	CULVERT EXC. CU. YD.	DRAWING NO.	BACKFILLING ITEM 303-01.02 DWG. STD-10-1 TONS	FOUNDATION FILL MATERIAL CU. YD.
101+37.23	21.66' LT.	5'	6'	13'	90° LT.		10.2	2002				8	STD-17-51	119	2.5
TOTALS							**10.2**	**2002**	**0**	**0**	**0**	**8**		**119**	**2.5**

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

18-MAR-2014 13:12
\\thp-ap\civildata\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\0026.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	2H

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

CATCH BASINS AND MANHOLES

	SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS (INCHES)	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS TYPE 3 611-01.02 4' - 8'	TYPE 3 611-01.03 8' - 12'	TYPE 3 611-01.04 12' - 16'	TYPE 38 611-38.01 0' - 4'	TYPE 38 611-38.02 4' - 8'	TYPE 42 611-42.01 0' - 4'	TYPE 42 611-42.02 4' - 8'	TYPE 42 611-42.03 8' - 12'
	4B	S. INDUSTRIAL DR.	10+22.36	92.68 LT	1	1657.46	MH	72	8.43	D-MH-7		1						
	4B	S. INDUSTRIAL DR.	10+22.91	71.39 LT	2	1658.92	MH	108x108	8.92	D-MH-7		1						
	4B	S. INDUSTRIAL DR.	10+24.08	41.59' LT	3	1658.01	MH	72	6.70	D-MH-7	1							
	4B	S. INDUSTRIAL DR.	10+27.41	43.49 RT	4	1657.20	MH	72	5.74	D-MH-2	1							
	7B	S. INDUSTRIAL DR.	52+30.76	0.51 LT	7	1638.24	MH	84	13.94	D-MH-2			1					
	7B	S. INDUSTRIAL DR.	50+16.47	5 LT	8	1638.13	MH	84	12.54	D-MH-2			1					
	7B	S. INDUSTRIAL DR.	48+00.00	6 LT	9	1638.76	MH	96	11.83	D-MH-2		1						
	6B	S. INDUSTRIAL DR.	44+00.00	6 LT	10	1638.12	MH	96	8.90	D-MH-2		1						
	6B	S. INDUSTRIAL DR.	40+00.00	6 LT	11	1640.27	MH	96	8.76	D-MH-2		1						
	6B	S. INDUSTRIAL DR.	36+30.26	6 LT	12	1642.40	MH	84	8.69	D-MH-2		1						
	5B	S. INDUSTRIAL DR.	32+30.12	6 LT	13	1644.71	MH	60	8.71	D-MH-2		1						
	5B	S. INDUSTRIAL DR.	28+84.94	5.86 LT	14	1645.44	MH	84x84	7.54	D-MH-6	1							
	7B	S. INDUSTRIAL DR.	48+00.00	28.26 RT	16	1633.35	39	48x48	5.95	D-CB-39S					1			
(1)	6B	S. INDUSTRIAL DR.	44+00.00	26.36 RT	17	1633.66	39	48x48	3.98	D-CB-39S				1				
	6B	S. INDUSTRIAL DR.	45+08.33	28.43 RT	18	1635.00	42	32x32	3.50	D-CB-42S						1		
	6B	S. INDUSTRIAL DR.	40+00.00	24.50 RT	19	1636.74	39	48x48	4.78	D-CB-39S					1			
	6B	S. INDUSTRIAL DR.	36+30.26	24.84 RT	20	1640.25	42	32x32	6.04	D-CB-42S							1	
	6B	S. INDUSTRIAL DR.	35+05.10	24.84 RT	21	1639.05	42	32x32	3.50	D-CB-42S						1		
	5B	S. INDUSTRIAL DR.	32+30.13	24.84 LT	22	1641.00	42	32x32	4.72	D-CB-42S							1	
	7B	S. INDUSTRIAL DR.	50+16.47	25.22 RT	23	1634.20	42	32x32	10.10	D-CB-42S								1
(2)	7B	S. INDUSTRIAL DR.	50+85.00	25.22 RT	24	1635.80	42	32x32	9.00	D-CB-42S								1
	TOTALS										3	7	2	1	2	2	2	2

(1) STRUCTURE SHALL BE EQUIPED WITH A REMOVABLE RISER OF 0.5' SHALL BE USED DURING PHASE 1 AND PHASE 2 CONSTRUCTION AND REMOVED DURING PHASE III CONSTRUCTION. COST OF RISER SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.

(2) STRUCTURE SHALL BE EQUIPED WITH A REMOVABLE RISER OF 1.0' SHALL BE USED DURING PHASE 1 AND PHASE 2 CONSTRUCTION AND REMOVED DURING PHASE III CONSTRUCTION. COST OF RISER SHALL BE INCLUDED IN THE COST OF OTHER ITEMS.

STORM DRAINAGE PIPES

SHEET NO.	FROM CODE	FROM OUTLET ELEV.	TO CODE	TO INLET ELEV.	% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.) 12"	18"	24"	30"	36"	42"	48"	30"x19"	38"x24"	RIP-RAP 709-05.06 (TON)
4B	5	1651.6	4	1651.52	0.80							10			
4B	3	1650.21	2	1650.00	0.91							23			
4B	2	1649.62	1	1649.26	2.77						13.00				
5B	15	1638.64	14	1638.22	0.95									44	
5B	14	1637.90	13	1636.21	0.50				339						
5B	13	1636.00	12	1634.00	0.51					394					
6B	12	1633.71	11	1631.84	0.52					363					
6B	11	1631.50	10	1629.55	0.50						392				
6B	10	1629.22	9	1627.26	0.50						392				
7B	9	1626.93	8	1625.88	0.50						209				
7B	8	1625.59	7	1624.55	0.50							208			
7B	7	1624.26	6	1624.00	0.46							56			
5B	22	1636.28	13	1636.21	0.47		15								
6B	21	1635.55	20	1634.33	0.99			123							
6B	20	1634.21	12	1634.00	0.81			26							
6B	19	1631.96	11	1631.84	0.48								25		
6B	18	1631.50	17	1629.85	1.57			105							
6B	17	1629.68	10	1629.55	0.50								26		
7B	16	1627.40	9	1627.26	0.50								28		
7B	24	1626.80	23	1626.12	1.03		66								
7B	23	1626.00	8	1625.88	0.48		25								
TOTALS						0	106	254	339	757	1006	297	79	44	0

STORM DRAINAGE ENDWALLS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	SKEW	DRAINAGE CODE	STRUCTURE TYPE	STANDARD DRAWING	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)
4B	S. INDUSTRIAL DR.	10+30.58	55.73' RT	75	5	"W"	D-PE-1	6.05	92	
7B	S. INDUSTRIAL DR.	52+74.78	39.06' LT	45	6	"W"	D-PE-1	7.8	117	
5B	S. INDUSTRIAL DR.	28+49.39	27.52' RT	45	15	"STR"	D-PE-5	2.2	133	
TOTALS								16.05	342	0

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

18-MAR-2014 13:12
\\thp-gp\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\002H.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	21

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

RAMP & SIDE DRAIN TABULATION

STATION	LOCATION LT	LOCATION RT	DESCRIPTION	SURFACE WIDTH (L.F.)	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 10 FT. 15"	18"	24"	30"	36"	48"	RCP CLASS III OR CMP 14 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT > 10 FT. AND < OR = 16 FT. 18"	24"	30"	36"	48"	END TREATMENT TYPE	DRAWING NO.	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)	REMARKS
13+46.54		X	S. INDUSTRIAL DR.	14		40															
16+86.80		X	S. INDUSTRIAL DR.	12		28															
17+80.30		X	S. INDUSTRIAL DR.	30		60															
19+69.06		X	S. INDUSTRIAL DR.	30		80															
23+07.92		X	S. INDUSTRIAL DR.	40			96														
29+01.35		X	S. INDUSTRIAL DR.	40			83														
TOTALS					**0**	**208**	**179**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**			**0**	**0**	**0**	

PAVEMENT QUANTITIES

LOCATION	PAY ITEMS 303-01 (TON)	307-01.08 (TON)	307-02.01 (TON)	307-02.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.11 (TON)	411-02.10 (TON)	411-02.11 (TON)
S. INDUSTRIAL DR.	11885.00		2090.00	1370.00	18.40	72.70	3.70		803.00	
JACKSON LOVE HWY.	243.00		9.00	6.00	0.10	0.20	0.10		4.00	10.00
PVT. DR. AND BUS. ENT.	1217.00	421.00						199.00		
WALKING TRAIL	396.00				3.60	14.10				252.00
MAINTAIN TRAFFIC	2556.00		1568.00	442.00	6.00	23.50	1.20		259.00	
TOTALS	**16297.00**	**421.00**	**3667.00**	**1818.00**	**28.10**	**110.50**	**5.00**	**199.00**	**1066.00**	**262.00**

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	GUARDRAIL BRIDGE ENDS 705-01.01 (L.F.)	GUARDRAIL METAL BEAM 705-01.04 (L.F.)	GUARDRAIL SINGLE TYPE 2 705-02.02 (L.F.)	TERMINAL ANCHORS TYPE-IN-LINE 705-04.05 (EACH)	TERMINAL ANCHORS TYPE 38 705-04.07 (EACH)	REMARKS
4B	JACKSON LOVE HWY./S. INDUSTRIAL DR.	X		100+43.54	10+48.83	25	6.25	150.00	1		
4B	S. INDUSTRIAL DR./JACKSON LOVE HWY.	X	X	10+49.72	102+86.02			100.00	1	1	
TOTALS						**25.00**	**6.25**	**250.00**	**2**	**1**	

REMOVAL & RELOCATION OF SIGN & SUPPORT (ITEM 713-15.02)

SHEET NO.	STATION	LOCATION	DESCRIPTION	REMARKS
4	16+95	39' RT	STOP	
4	17+63	53' RT	NO TRUCKS	
4	18+00	32' RT	STOP	
4	19+95	44' RT	RECEIVING	
5	22+76	35' RT	NO PARKING	
5	23+55	38' RT	NO PARKING	
5	28+67	34' RT	EMPLOYEES ONLY	
5	29+31	32' RT	EMPLOYEES ONLY	
6	35+02	30' RT	BUSINESS IDENTIFICATION SIGN	
6	44+90	29' RT	STOP	
6	45+79	25' RT	STOP	
7	50+31	33' RT	SHIPPING	

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

8-MAR-2014 13:14
\\thp-ap\civildata\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\002.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	3
CONST.	2014	86950-3528-04	3

RIGHT - OF - WAY NOTES

(1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, ROADWAY DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

(2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

(3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

(4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.

(5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

(6) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

(7) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

(8) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

SPECIAL NOTES

(1) THE TOWN OF ERWIN SHALL BE RESPONSIBLE FOR THE REMOVAL AND RE-INSTALLATION OF BENCHES AND PLAQUES ALONG THE WALKING TRAIL.

(2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF MAILBOXES IMPACTED BY CONSTRUCTION ACTIVITIES. THE TOWN OF ERWIN SHALL COORDINATE WITH THE PROPERTY OWNER.

(3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF TREES BETWEEN STATION 15+63± AND STATION 16+47± THE TOWN OF ERWIN SHALL COORDINATE REMOVAL WITH THE PROPERTY OWNER.

(4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKING AROUND UTILITIES THAT REMAIN IN PLACE AND PROVIDE PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT.

UTILITY NOTES

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

(3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

UTILITY OWNERS

UTILITY	OWNER	PHONE NO.	CONTACT	ADDRESS	CITY	STATE	ZIP CODE
TELEPHONE	CENTURYLINK	423-461-4453	RANDY BOOTH	101 N. ROAN STREET	JOHNSON CITY	TN	37601
WATER	ERWIN UTILITIES	423-743-1820	MATTHEW K. RICE	244 LOVE STREET	ERWIN	TN	37650
SEWAGE	ERWIN UTILITIES	423-743-1820	MATTHEW K. RICE	244 LOVE STREET	ERWIN	TN	37650
GAS	UNICOI CO. GAS UTILITY DISTRICT	423-743-6793	TIM WHITSON	1414 N. MAIN AVENUE	ERWIN	TN	37650
POWER	ERWIN UTILITIES	423-743-1820	KIP LEMMON	244 LOVE STREET	ERWIN	TN	37650
CABLE TV	COMCAST CABLE	865-719-7590	JOSH JONES	5720 ASHEVILLE HIGHWAY	KNOXVILLE	TN	37924
TELEPHONE	AT&T	404-497-1857	GARY JENKINS	6285 BARFIELD ROAD	ATLANTA	GA	30028

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
1	VINCENT S. WISECARVER	31H/A	5.02	167	447		0.380	0.380					0.380		45	1210
2	WILLIAM LEE RUNION	31H/A	3.00	303	754	3.500		3.500				3.500			597	4515
3	BOBBY GENE BAILEY	31H/A	5.01	126	162		0.800	0.800					0.800		51	762
4	ERNEST W. ALLEN	31H/A	5.00	340	30		2.000	2.000					2.000		34	1416
~~5~~	~~WILLIAM LEE RUNION~~	~~31H/A~~	~~3.00~~	~~126~~	~~162~~	~~3.800~~		~~3.800~~				~~3.800~~				
6	WILLIAM LEE RUNION	31H/A	3.00	126	162	1.600		1.600				1.600				2445
7	AB PLASTICS, INC.	31H/A	4.04	174	801		9.120	9.120					9.120			6214
8	WILLIAM LEE RUNION	31H/A	3.00	126	162	3.100		3.100				3.100				585
9	ERWIN PROPERTIES, LLC	31H/A	4.05	304	766		5.370	5.370					5.370		1354	1359
10	ABP TN, LLC	31H/A	4.03	272	97		13.410	13.410					13.410			1006
11	POLY LIMITED PART	31H/A	4.02	283	518		10.000	10.000					10.000		429	6503
12	GERALD M. O'CONNOR JR	31H/A	4.01	170	201		9.920	9.920					9.920		138	8832

UNOFFICIAL SET

NOT FOR BIDDING

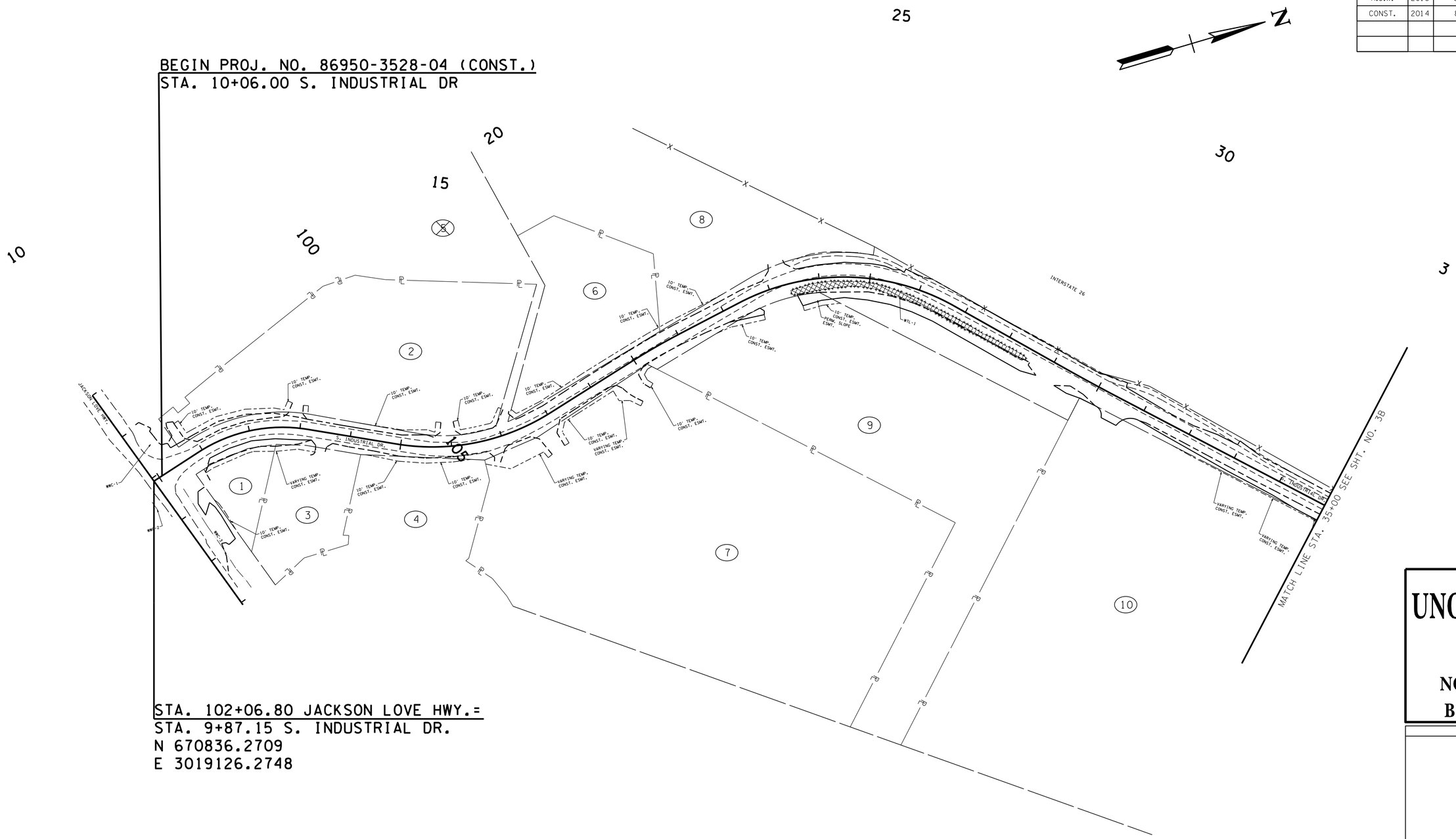
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

18-MAR-2014 13:14
\\thp-apxcivildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\003.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	3A
CONST.	2014	86950-3528-04	3A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

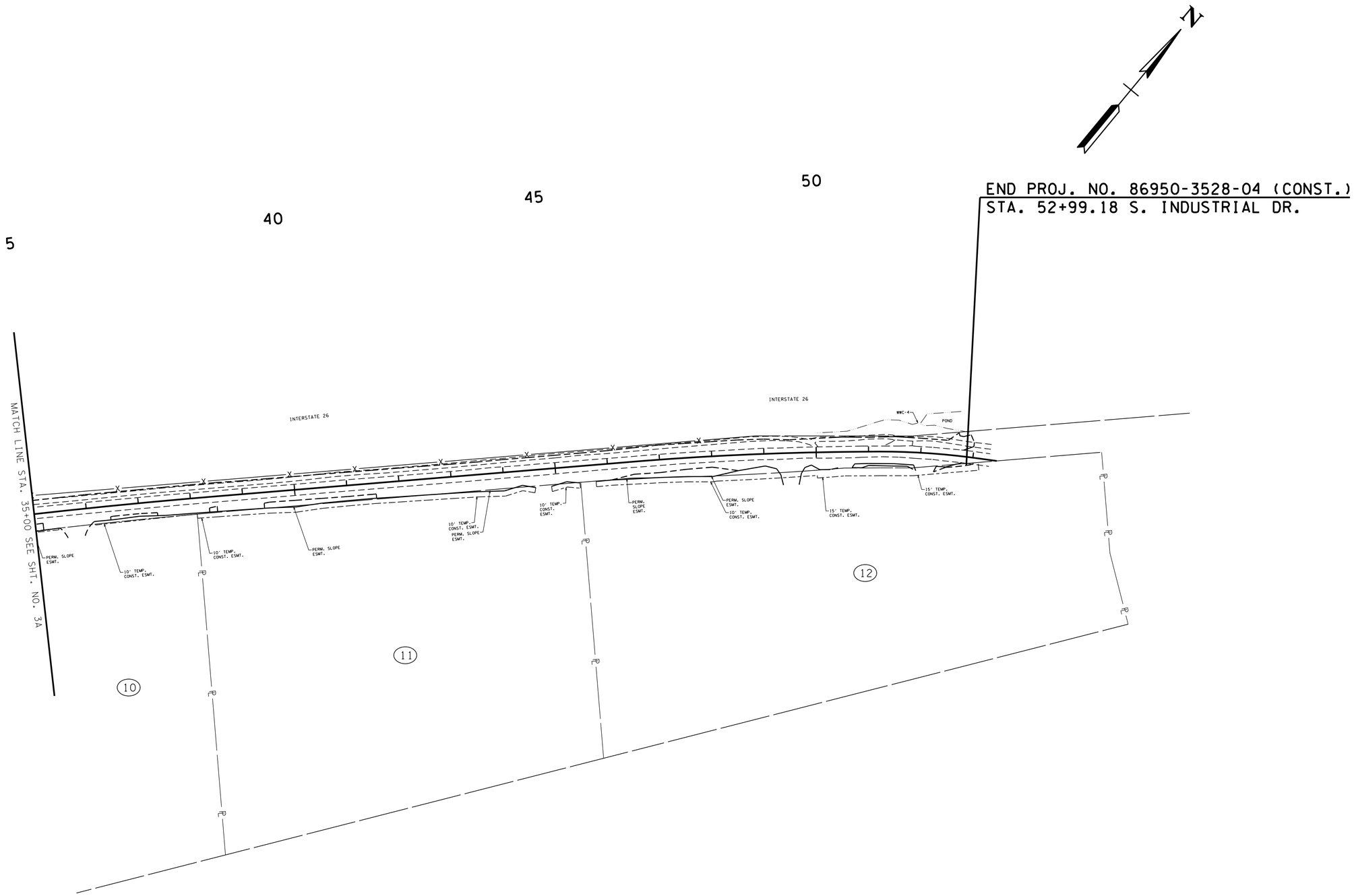
PROPERTY MAP

BEG. PROJ. TO STA. 35+00

SCALE: 1"=100'

18-MAR-2014 13:15
\\thp-gp\civildata\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\003A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	3B
CONST.	2014	86950-3528-04	3B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

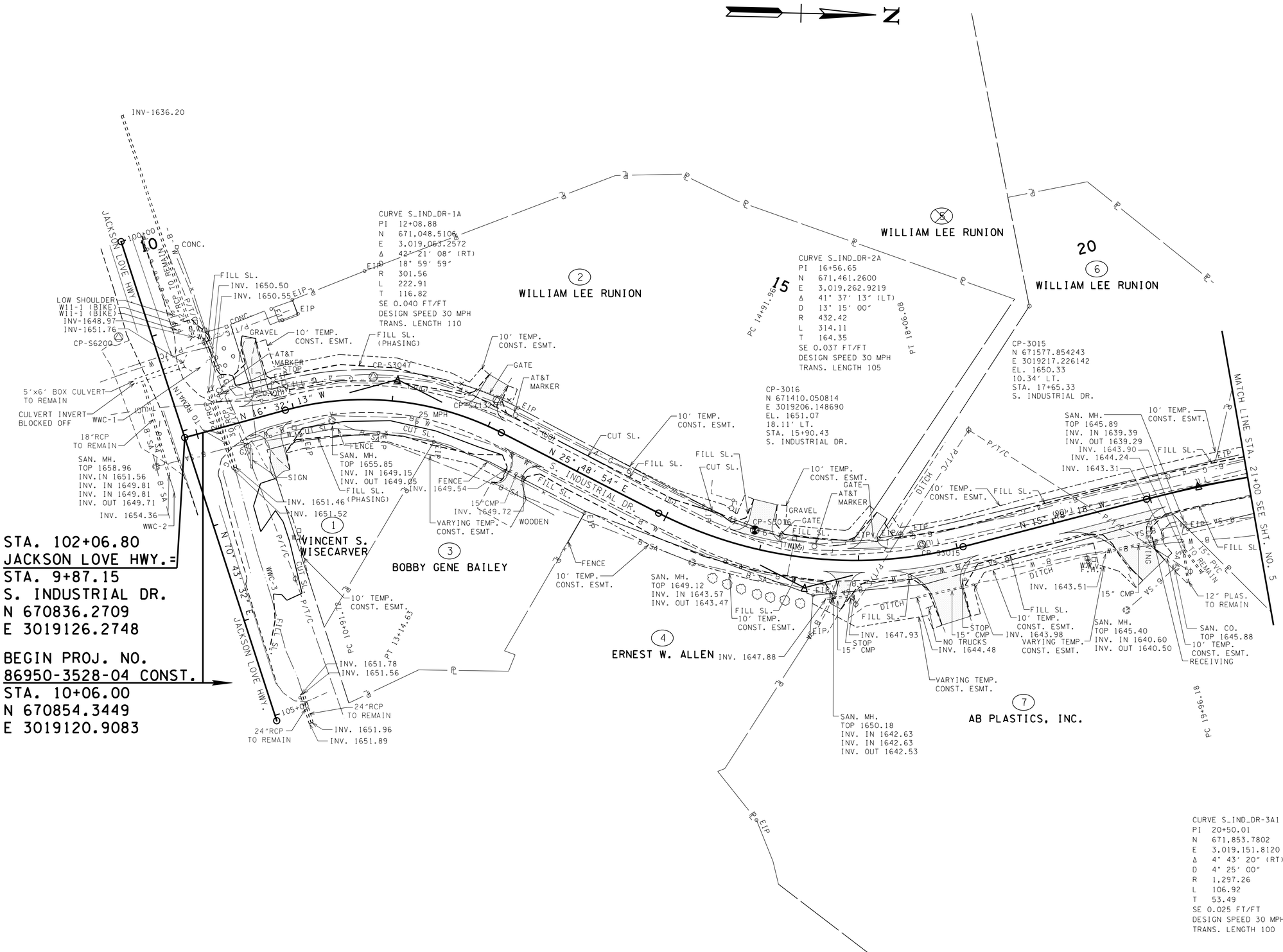
PROPERTY MAP

35+00 TO END PROJ.

SCALE: 1"=100'

18-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\003B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	4
CONST.	2014	86950-3528-04	4



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

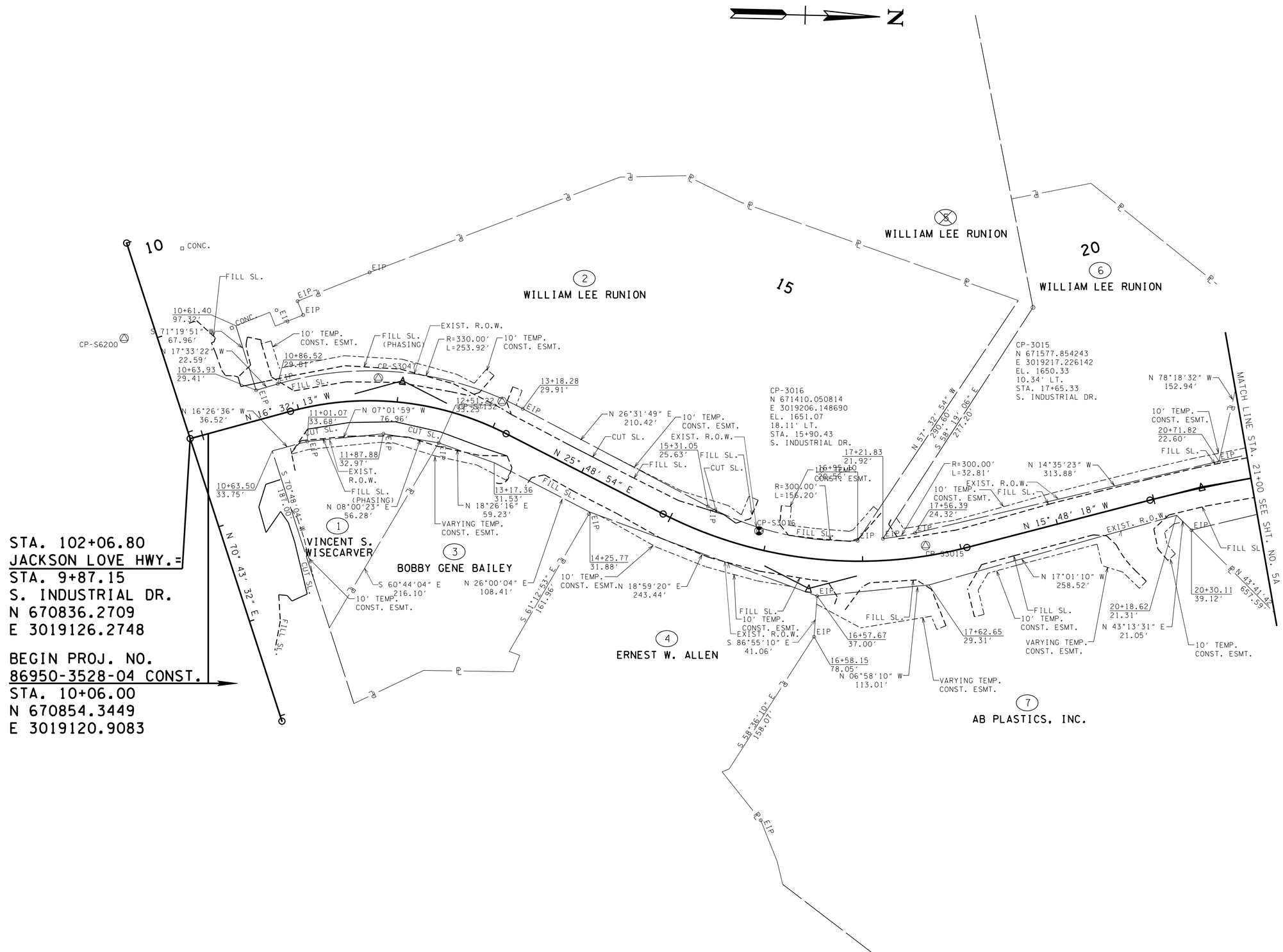
PRESENT LAYOUT

BEGIN PROJ. TO STA. 21+00

SCALE: 1"=50'

18-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\0\2703C - Erwin S Ind Drive\Drawings\Construction\004.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	4A
CONST.	2014	86950-3528-04	4A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

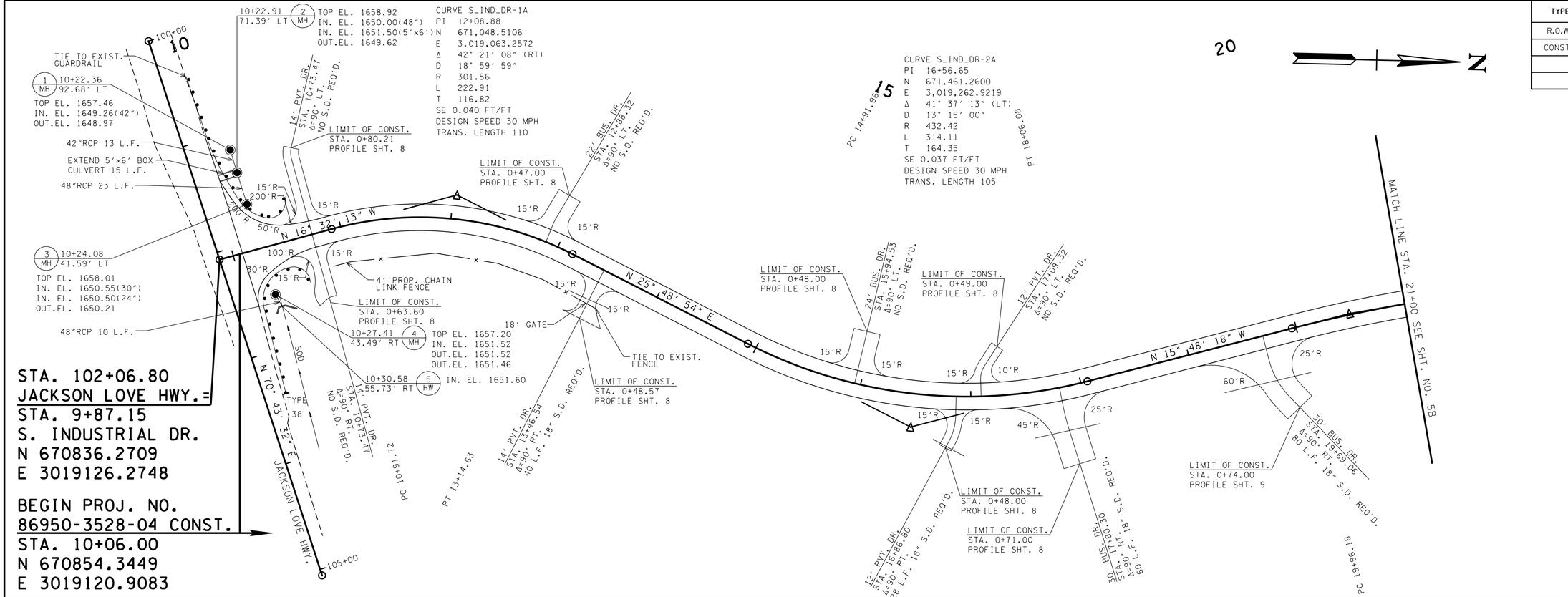
R.O.W. DETAIL

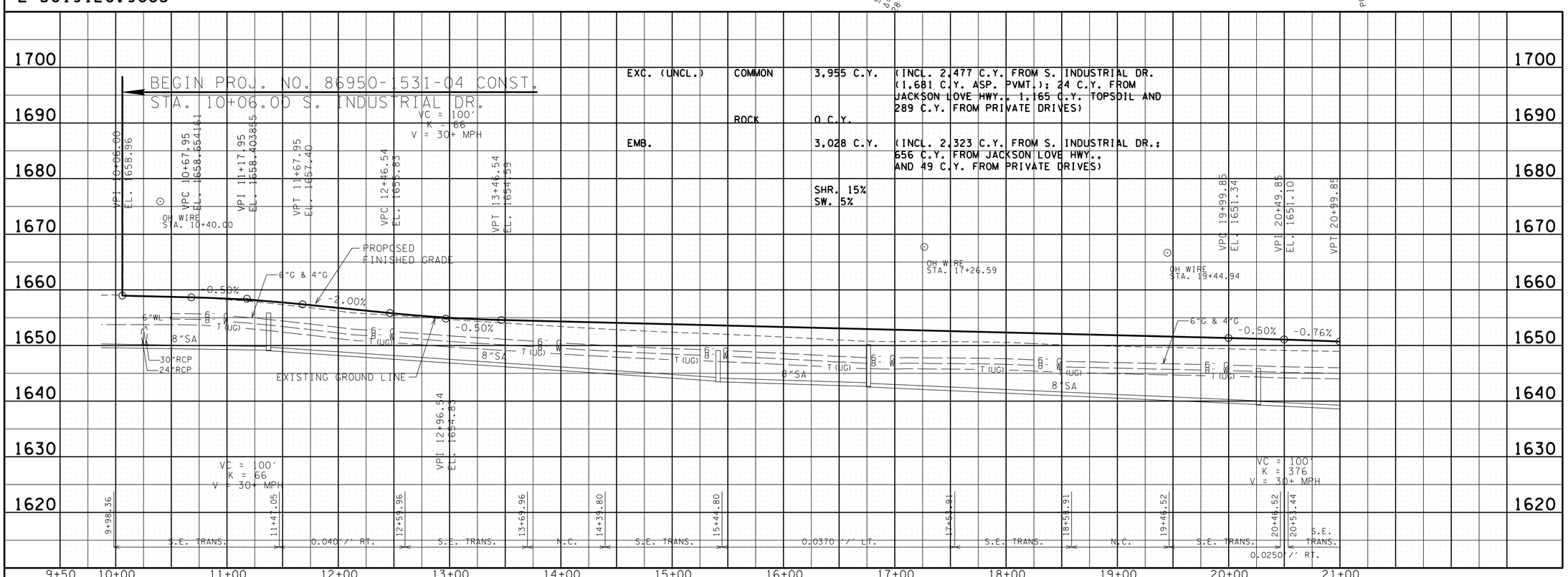
BEGIN PROJ. TO STA. 21+00

SCALE: 1"=50'

18-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\004A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	4B
CONST.	2014	86950-3528-04	4B





UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT AND PROFILE

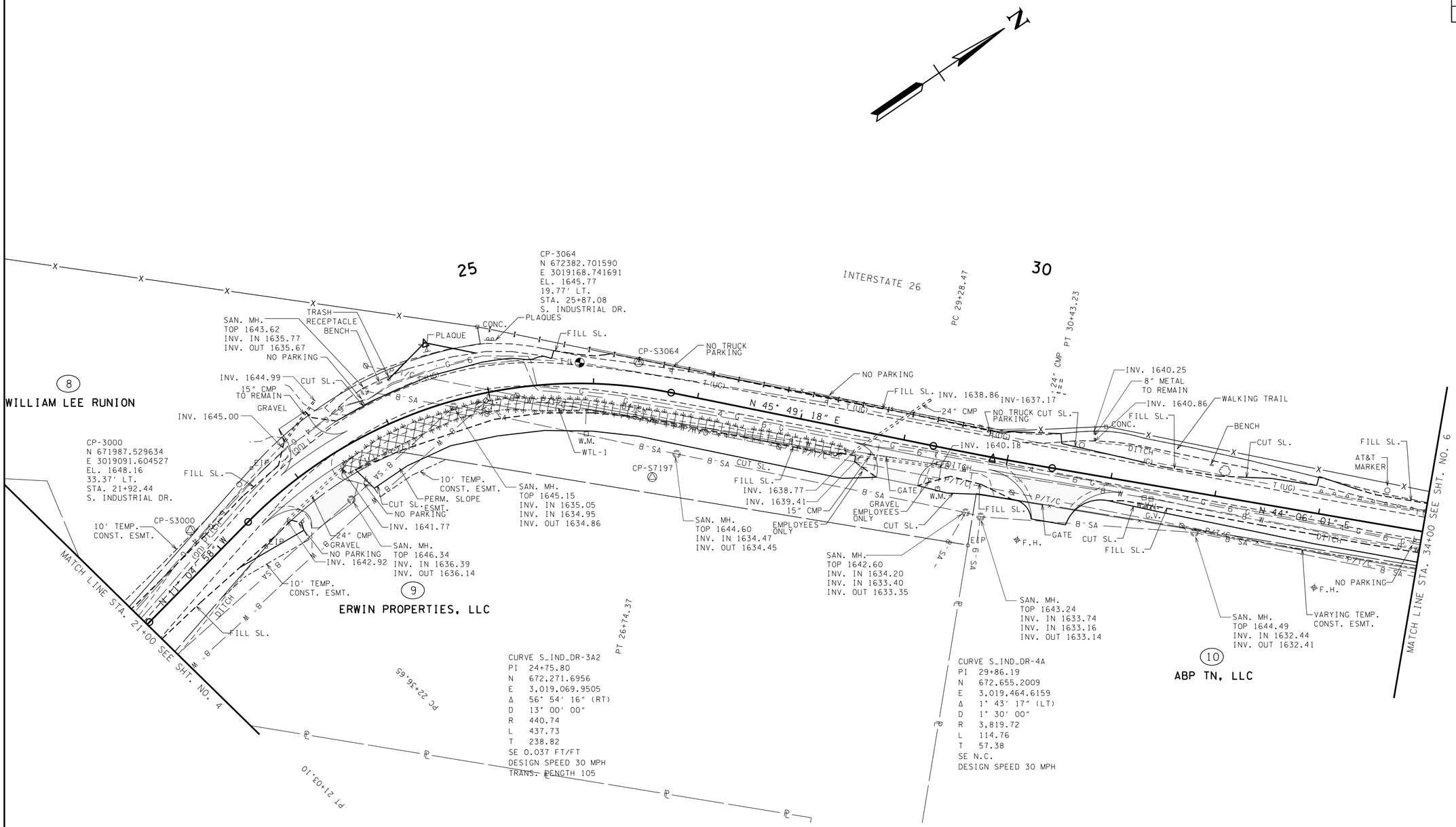
BEGIN PROJ. TO STA. 21+00

SCALE: 1"=50' HORIZ.
1"=10' VERT.

18-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\10\02703C - Erwin S Ind Drive\Drawings\Construction\004B.SHT

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.11 AC.
	VOLUME OF PERMANENT IMPACT = 184 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	5
CONST.	2014	86950-3528-04	5



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

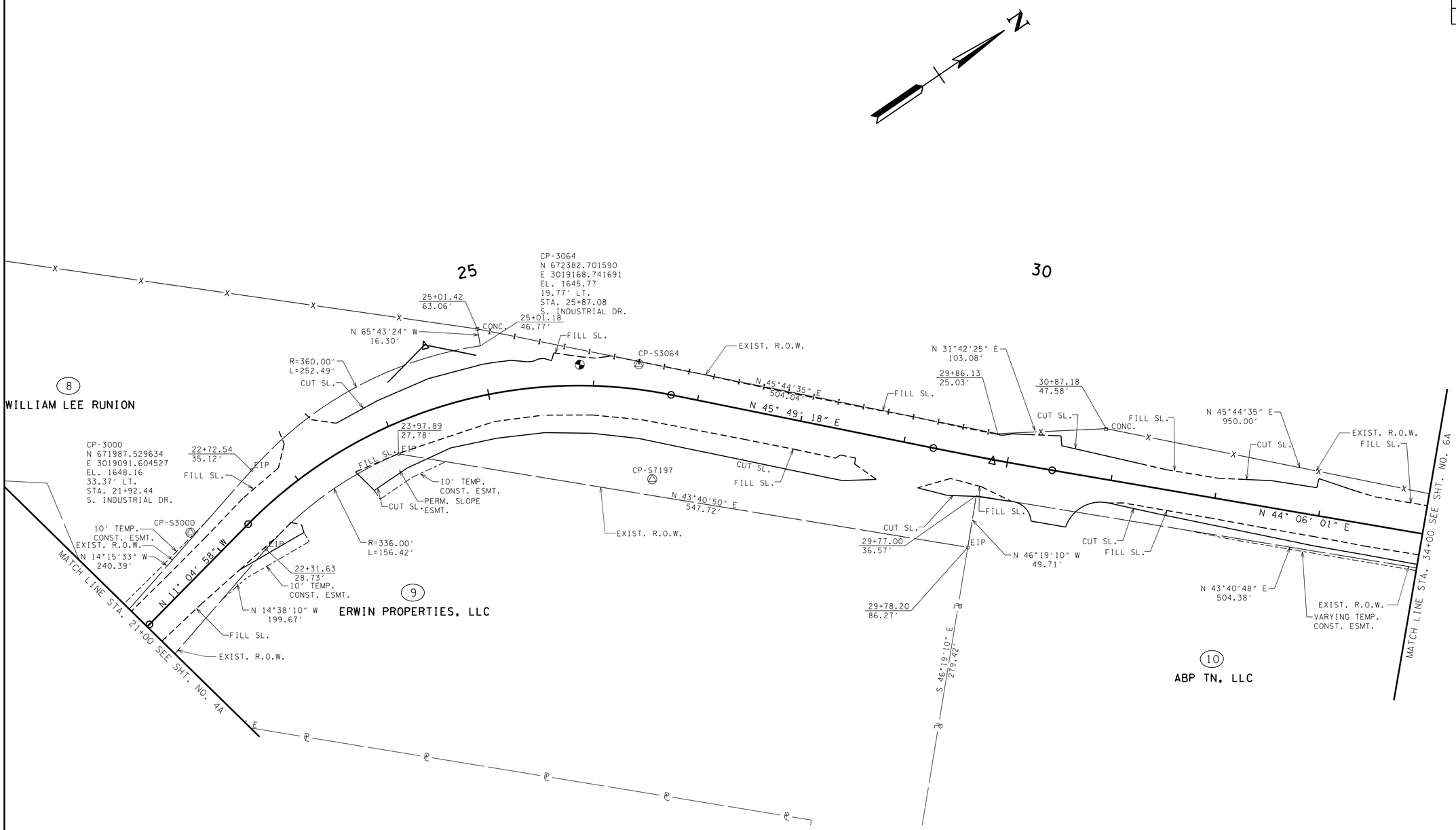
PRESENT LAYOUT

STA. 21+00 TO STA. 34+00

SCALE: 1"=50'

18-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\005.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	5A
CONST.	2014	86950-3528-04	5A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

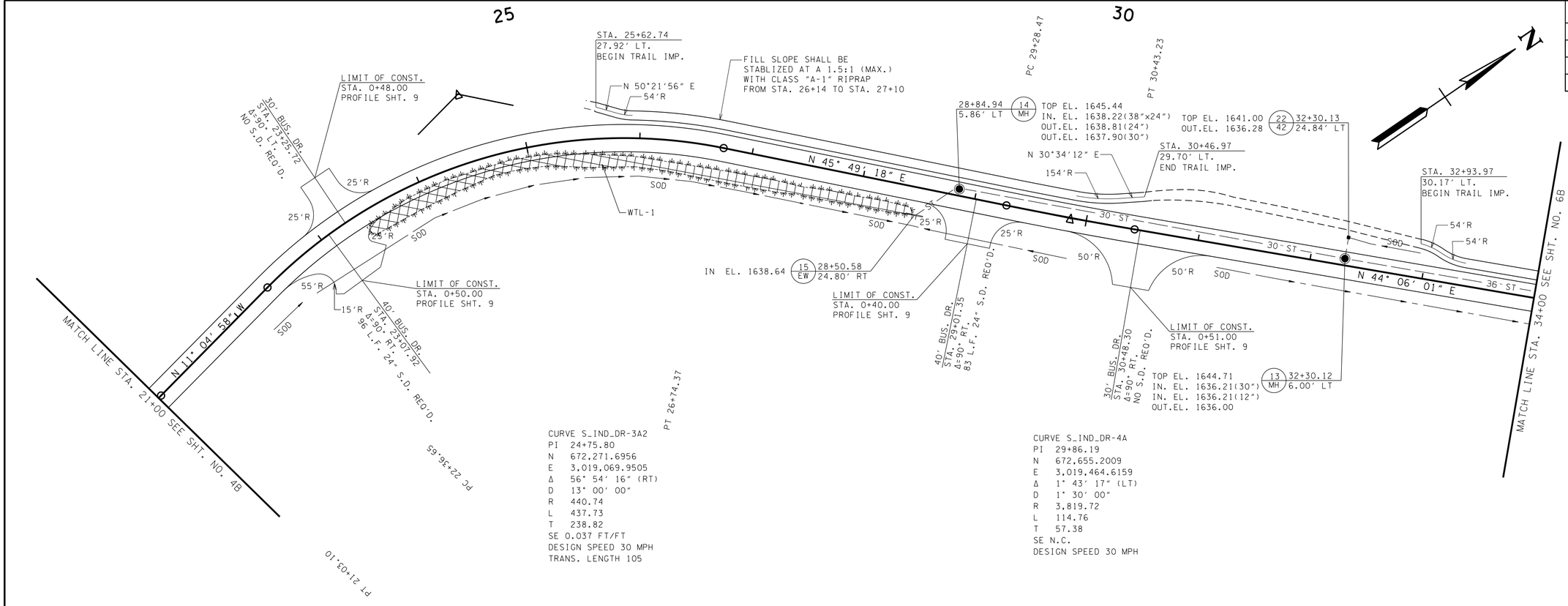
R.O.W. DETAIL

STA. 21+00 TO STA. 34+00

SCALE: 1"=50'

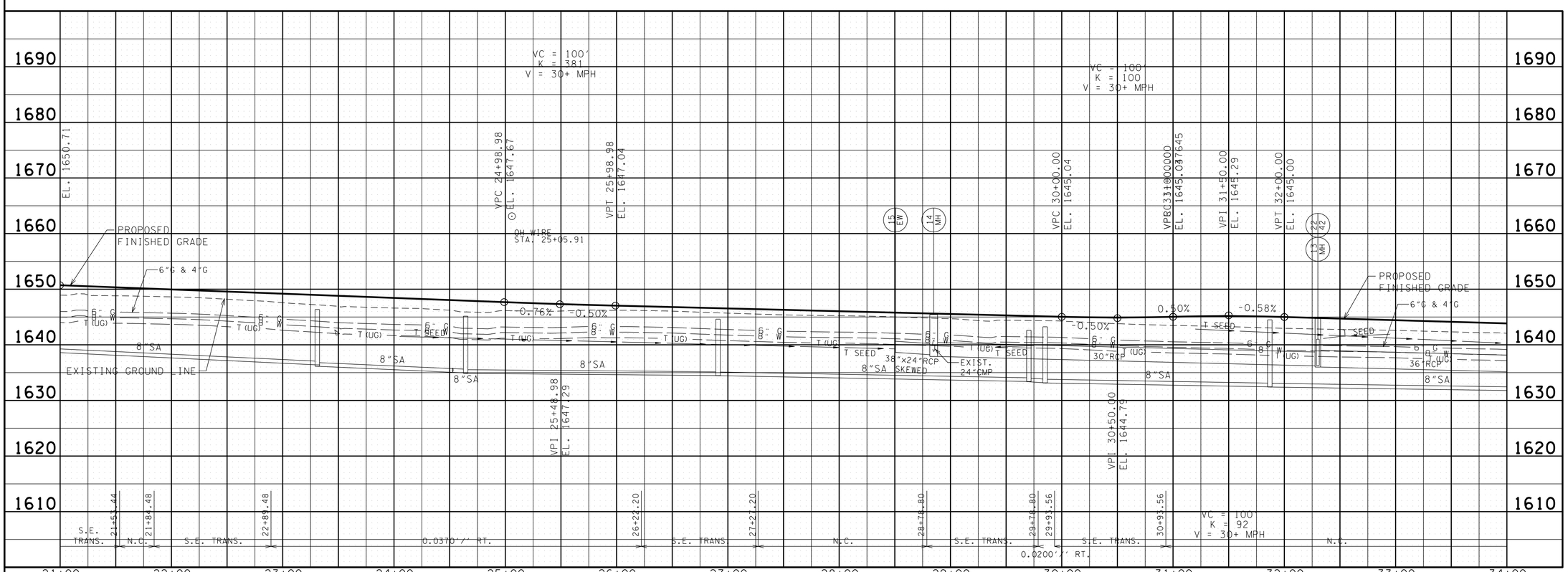
18-MAR-2014 13:16
\\thp-gp\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\005A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	5B
CONST.	2014	86950-3528-04	5B



CURVE S_IND_DR-3A2
PI 24+75.80
N 672,271.6956
E 3,019,069.9505
Δ 56° 54' 16" (RT)
D 13° 00' 00"
R 440.74
L 437.73
T 238.82
SE 0.037 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 105

CURVE S_IND_DR-4A
PI 29+86.19
N 672,655.2009
E 3,019,464.6159
Δ 1° 43' 17" (LT)
D 1° 30' 00"
R 3,819.72
L 114.76
T 57.38
SE N.C.
DESIGN SPEED 30 MPH



18-MAR-2014 13:16
\\thp-ap\civil data\Jobs-2010\0\02703C - Erwin S Ind Drive\Drawings\Construction\005B.SHT

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

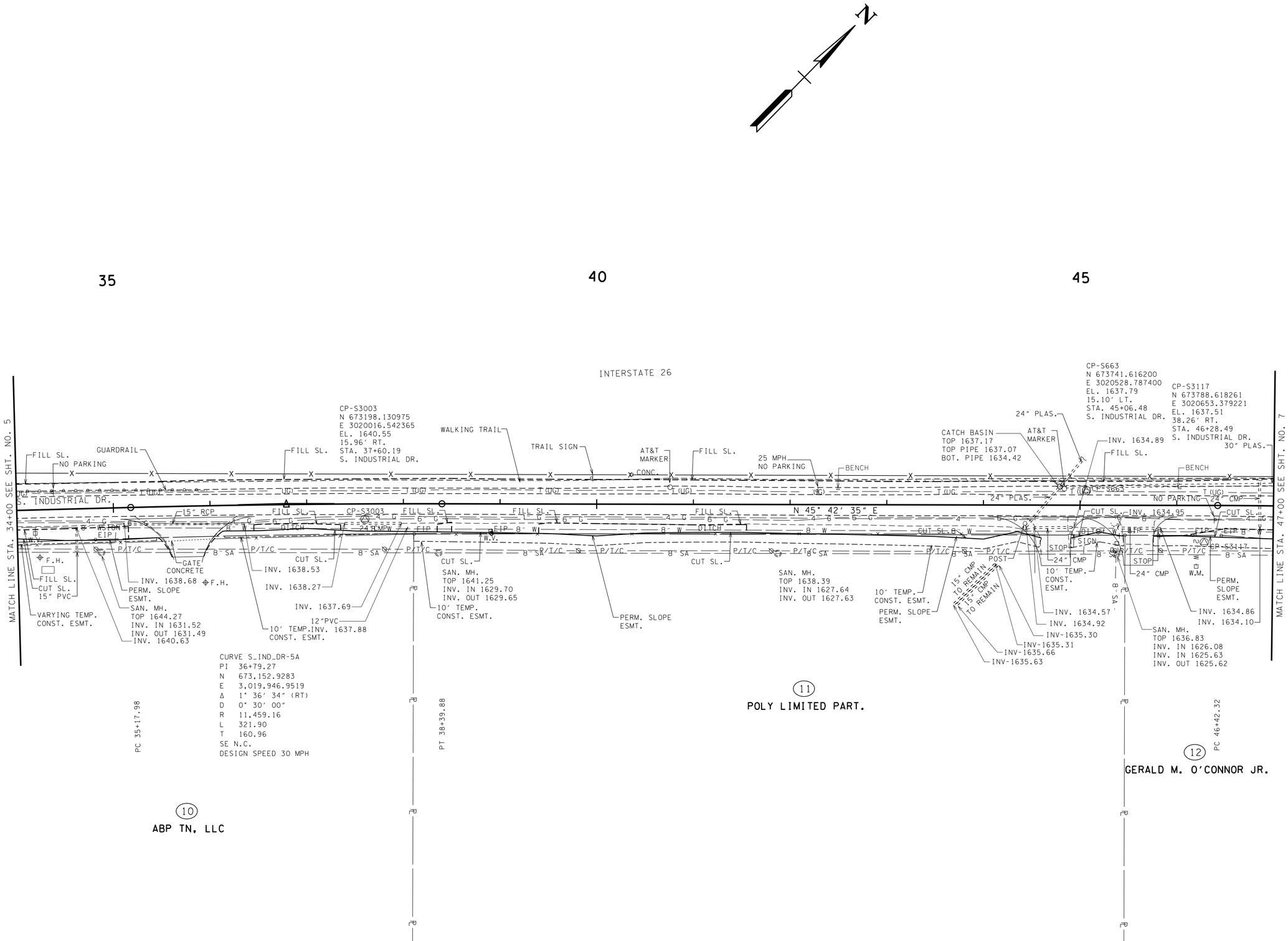
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT AND PROFILE

STA. 21+00 TO STA. 34+00

SCALE: 1"=50' HORIZ.
1"=10' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	6
CONST.	2014	86950-3528-04	6



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

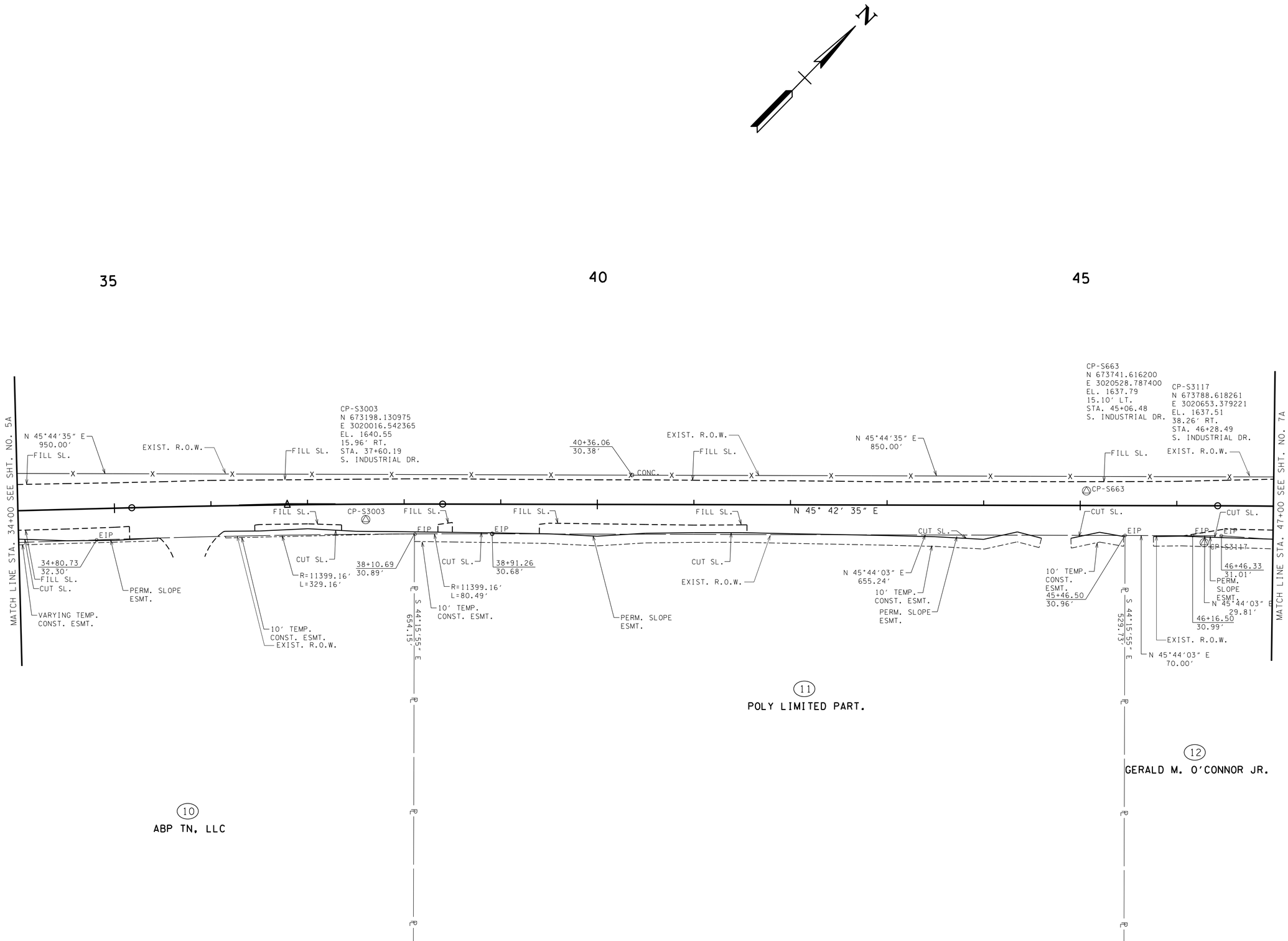
PRESENT LAYOUT

STA. 34+00 TO STA. 47+00

SCALE: 1"=50'

18-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\006.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	6A
CONST.	2014	86950-3528-04	6A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

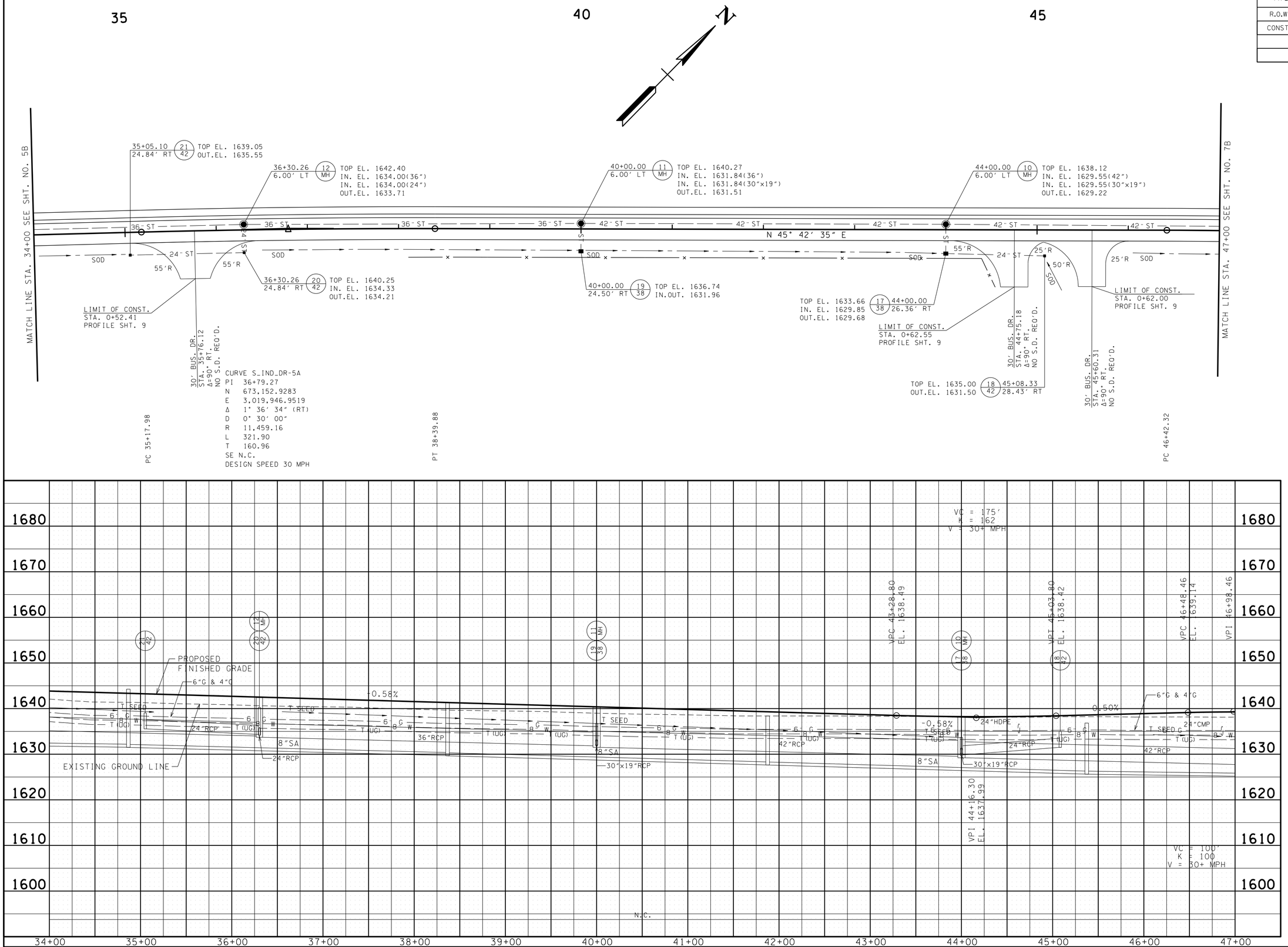
R.O.W. DETAILS

STA. 34+00 TO STA. 47+00

SCALE: 1"=50'

18-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\0127030 - Erwin S Ind Drive\Drawings\Construction\006A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	6B
CONST.	2014	86950-3528-04	6B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

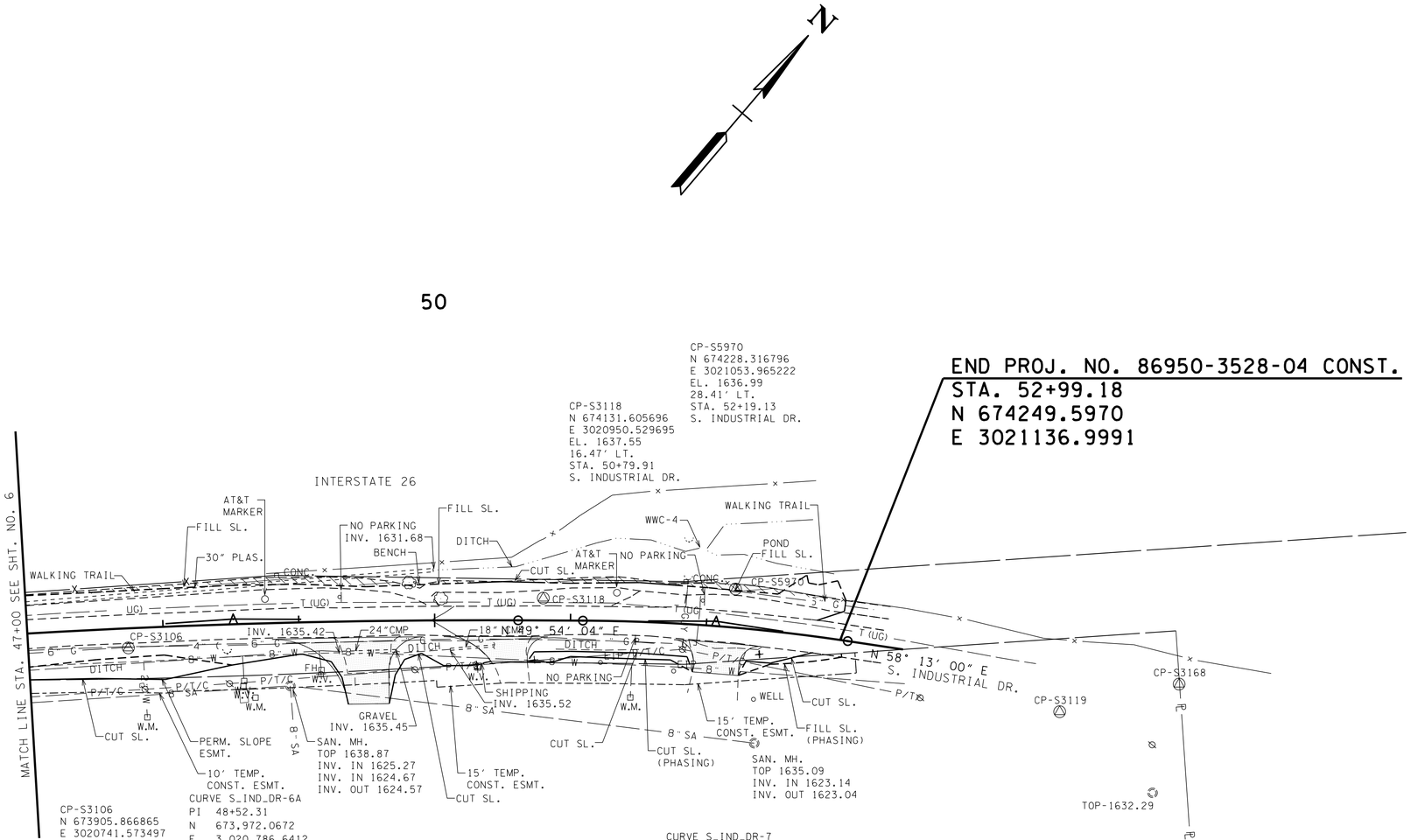
PROPOSED LAYOUT AND PROFILE

STA. 34+00 TO STA. 47+00

SCALE: 1"=50' HORIZ.
1"=10' VERT.

18-MAR-2014 13:16
\\thp-ap\civil data\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\006B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	7
CONST.	2014	86950-3528-04	7



CP-S3106
N 673905.866865
E 3020741.573497
EL. 1637.69
14.41' RT.
STA. 47+73.83
S. INDUSTRIAL DR.

CURVE S_IND_DR-6A
PI 48+52.31
N 673,972.0672
E 3,020,786.6412
Δ 4° 11' 29" (RT)
D 1° 00' 00"
R 5,729.58
L 419.13
T 209.66
SE N.C.
DESIGN SPEED 30 MPH
TRANS. LENGTH N/A

PT 50+61.45

PC 51+09.11

CURVE S_IND_DR-7
PI 52+07.11
N 674,200.9304
E 3,021,058.4350
Δ 8° 18' 56" (RT)
D 4° 15' 00"
R 1,348.14
L 195.66
T 98.00
SE 0.025 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 100

PT 53+04.77

(12)

GERALD M. O'CONNOR JR.

AREA TO BE SCARIFIED AND OBLITERATED

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

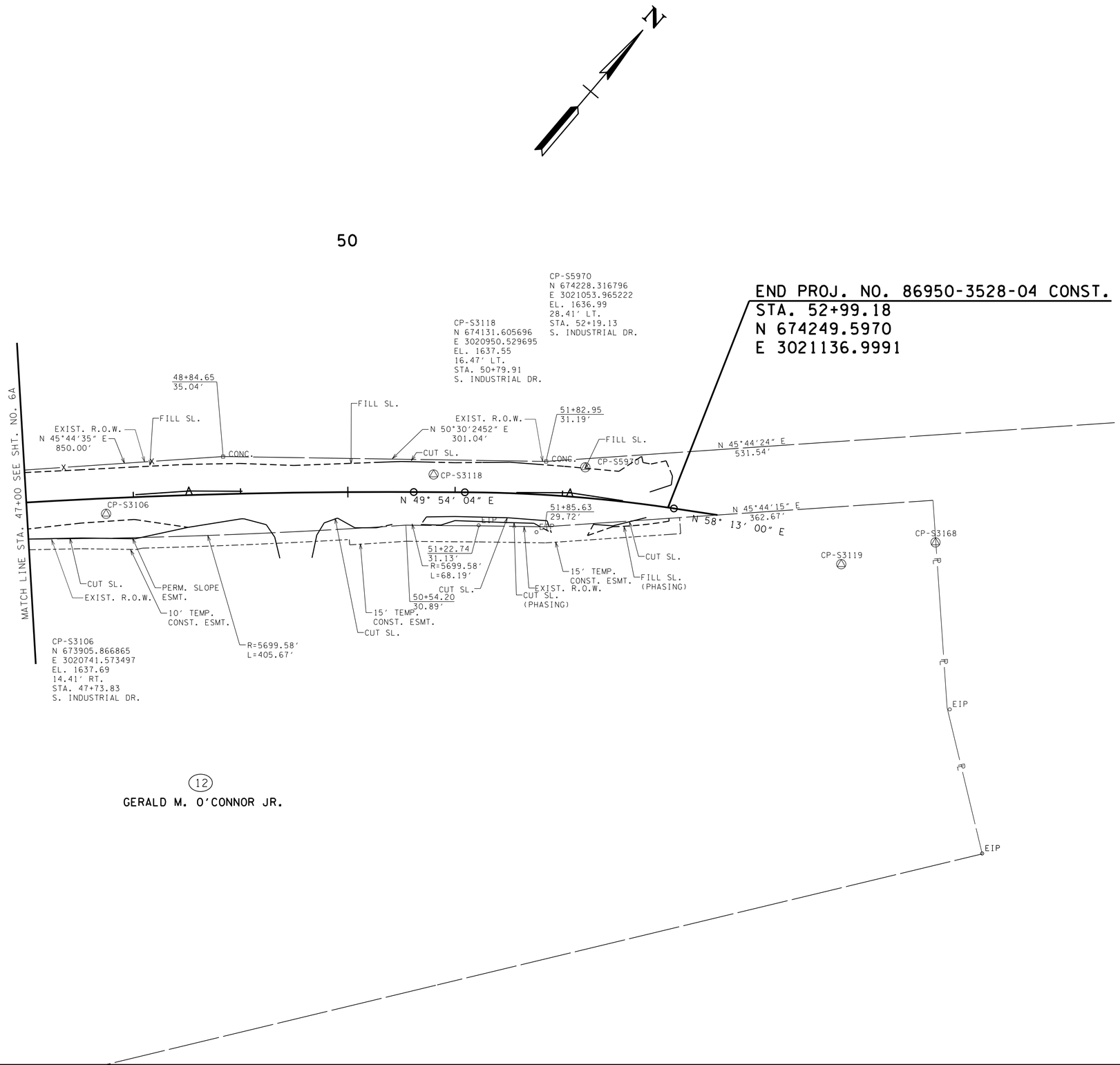
PRESENT LAYOUT

STA. 47+00 TO END PROJ.

SCALE: 1"=50'

18-MAR-2014 13:16
\\thp-gp\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\007.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	7A
CONST.	2014	86950-3528-04	7A



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

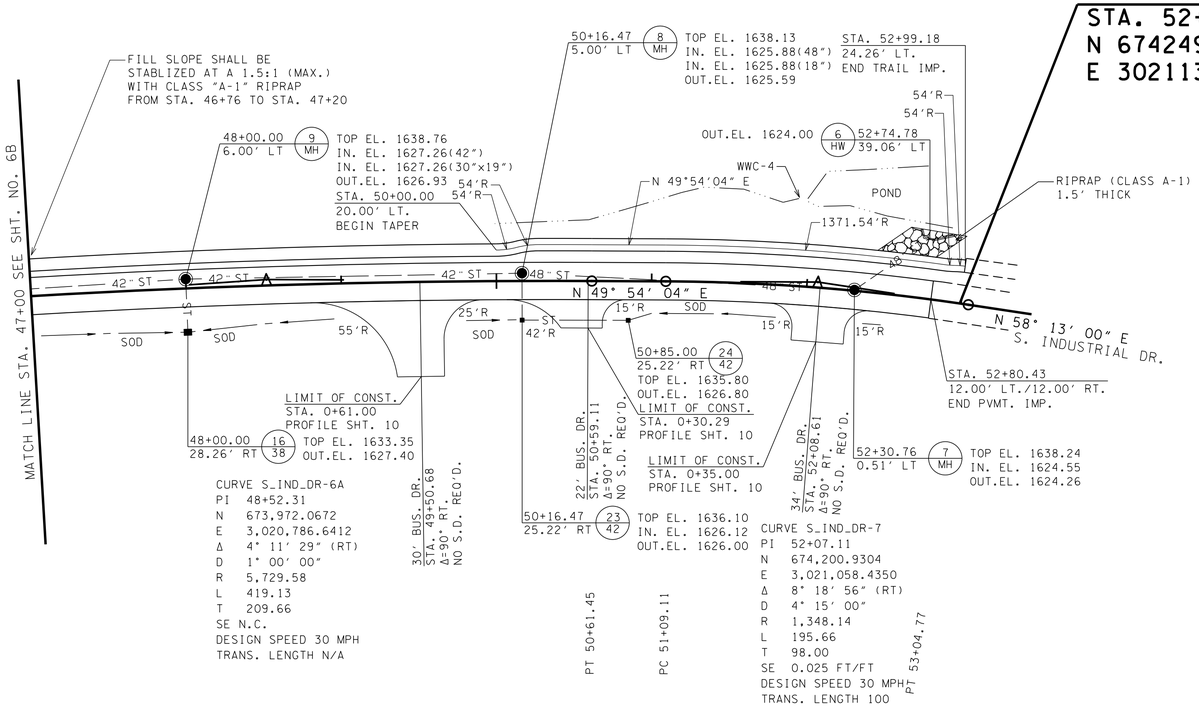
STA. 47+00 TO END PROJ.

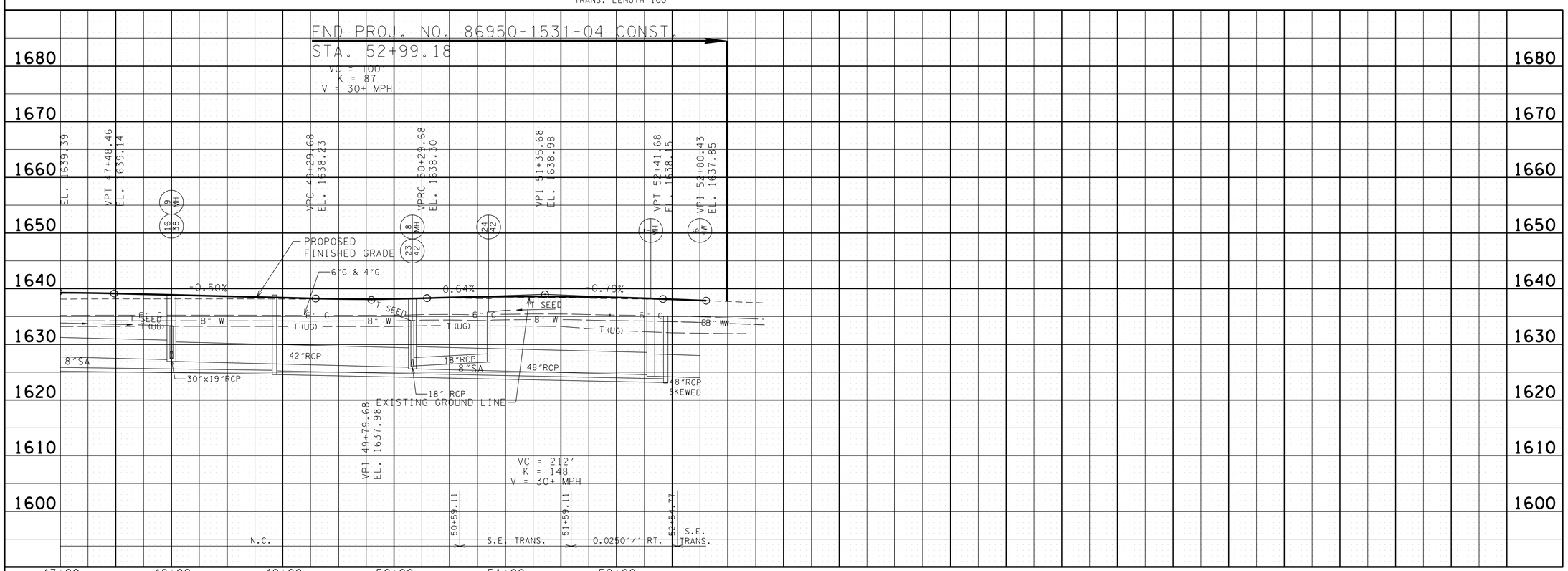
SCALE: 1"=50'

18-MAR-2014 13:16
\\thp-gp\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\007A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	7B
CONST.	2014	86950-3528-04	7B

END PROJ. NO. 86950-3528-04 CONST.
STA. 52+99.18
N 674249.5970
E 3021136.9991





UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT AND PROFILE

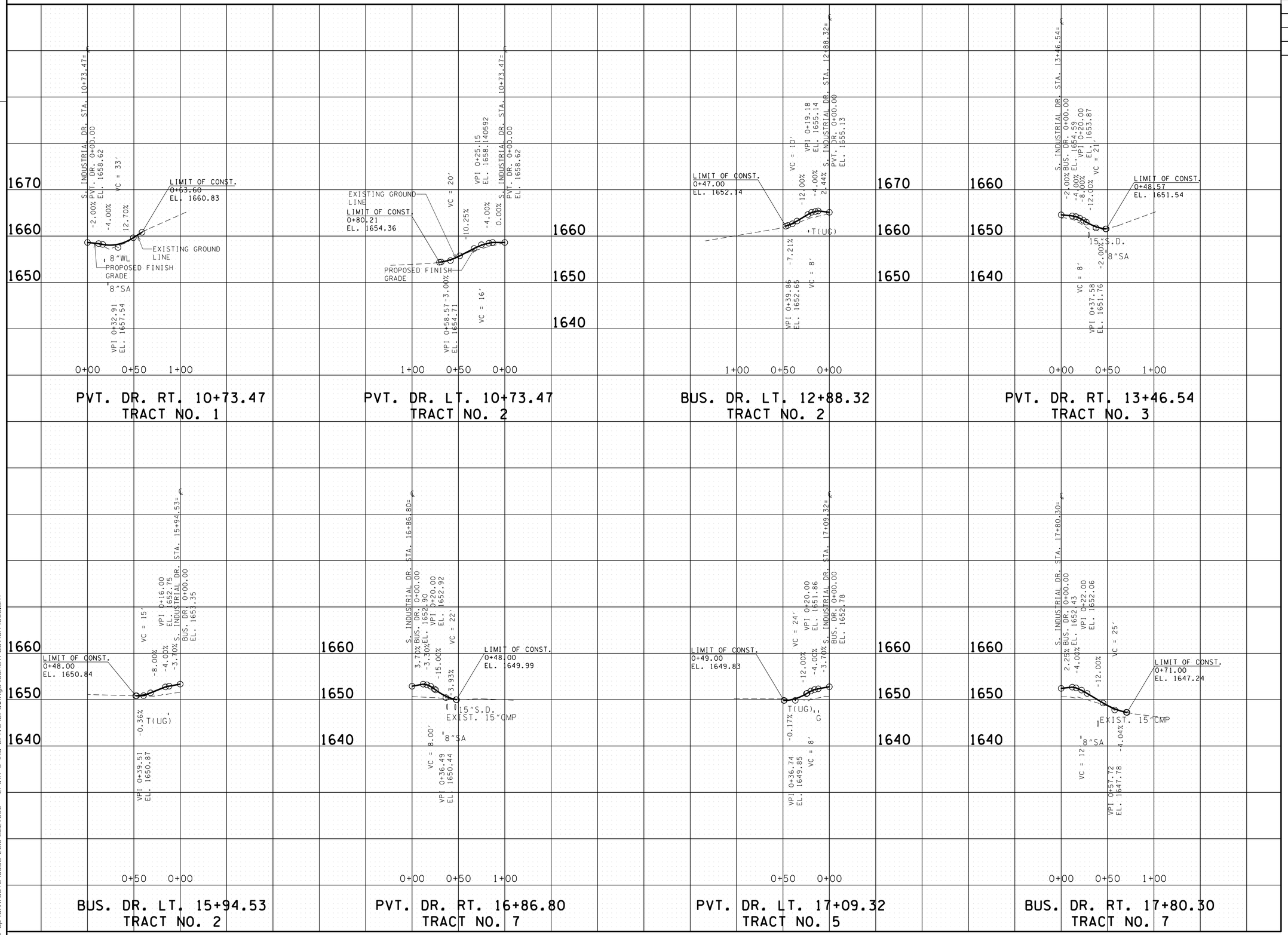
STA. 47+00 TO END PROJ.

SCALE: 1"=50' HORIZ.
1"=10' VERT.

18-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\007B.SHT

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	8
CONST.	2014	86950-3528-04	8



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

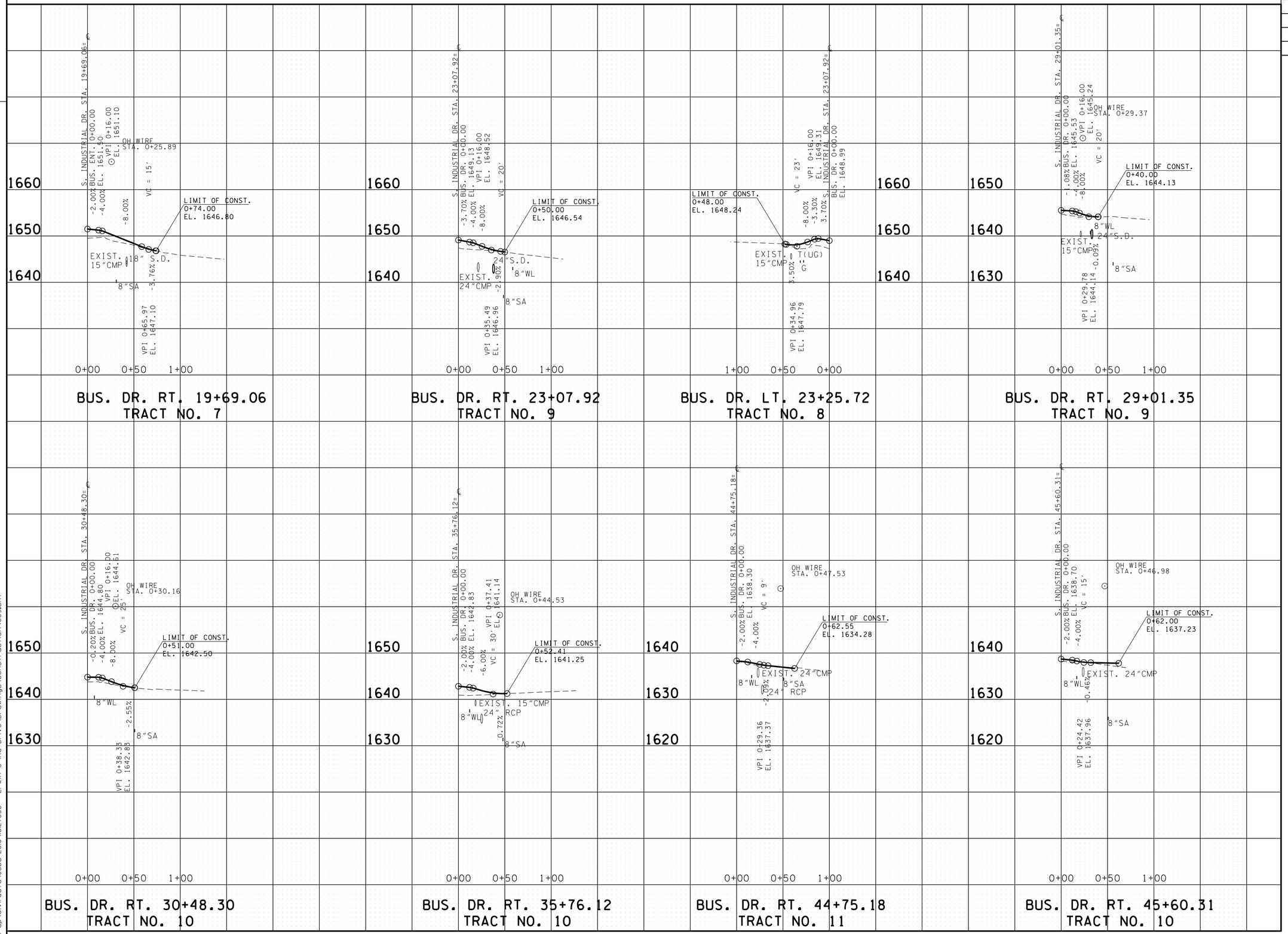
PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=10' VERT.

8-MAR-2014 13:16
\\thp-gp\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\008.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	9
CONST.	2014	86950-3528-04	9



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

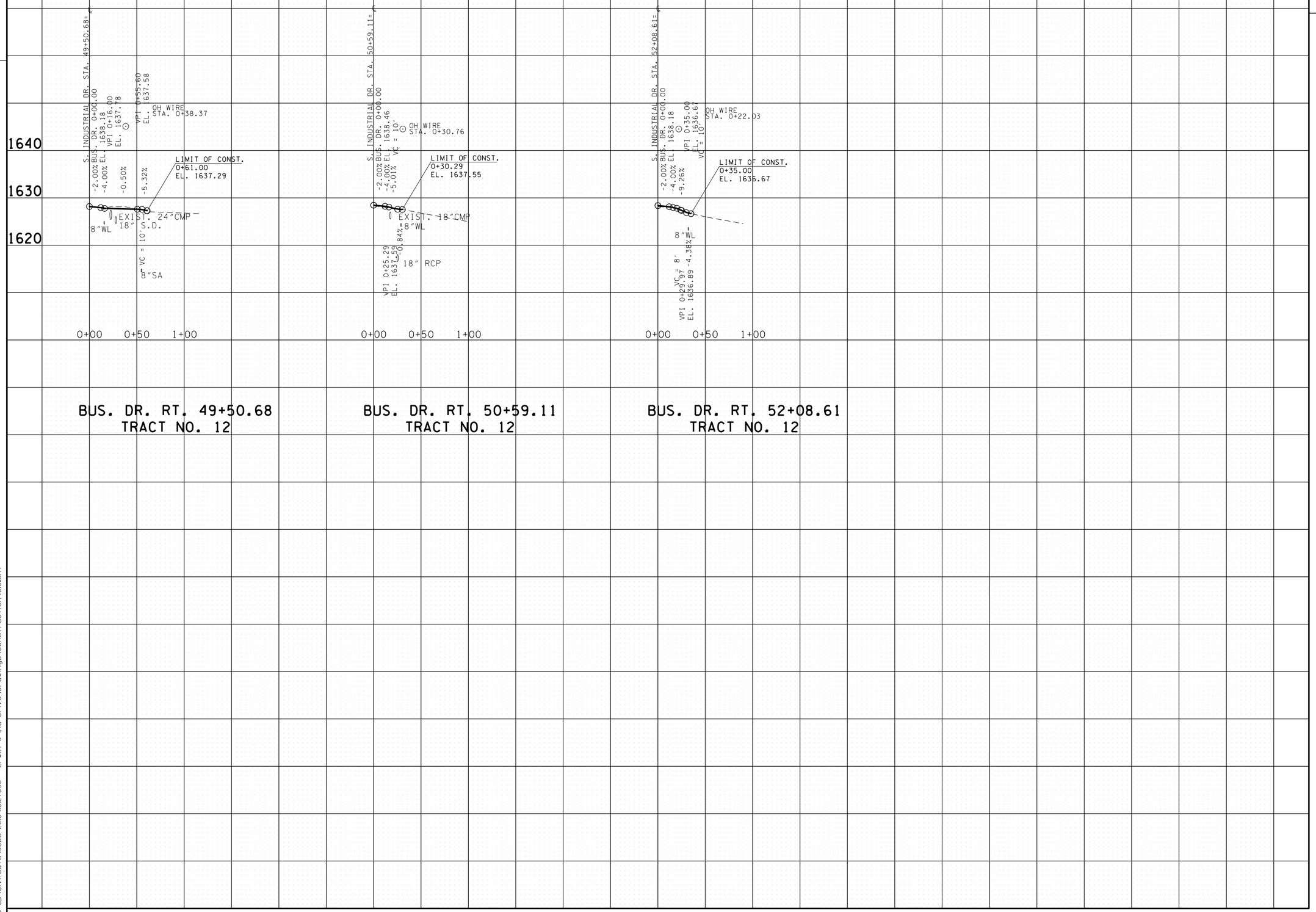
PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=10' VERT.

8-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\009.sht

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	10
CONST.	2014	86950-3528-04	10



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

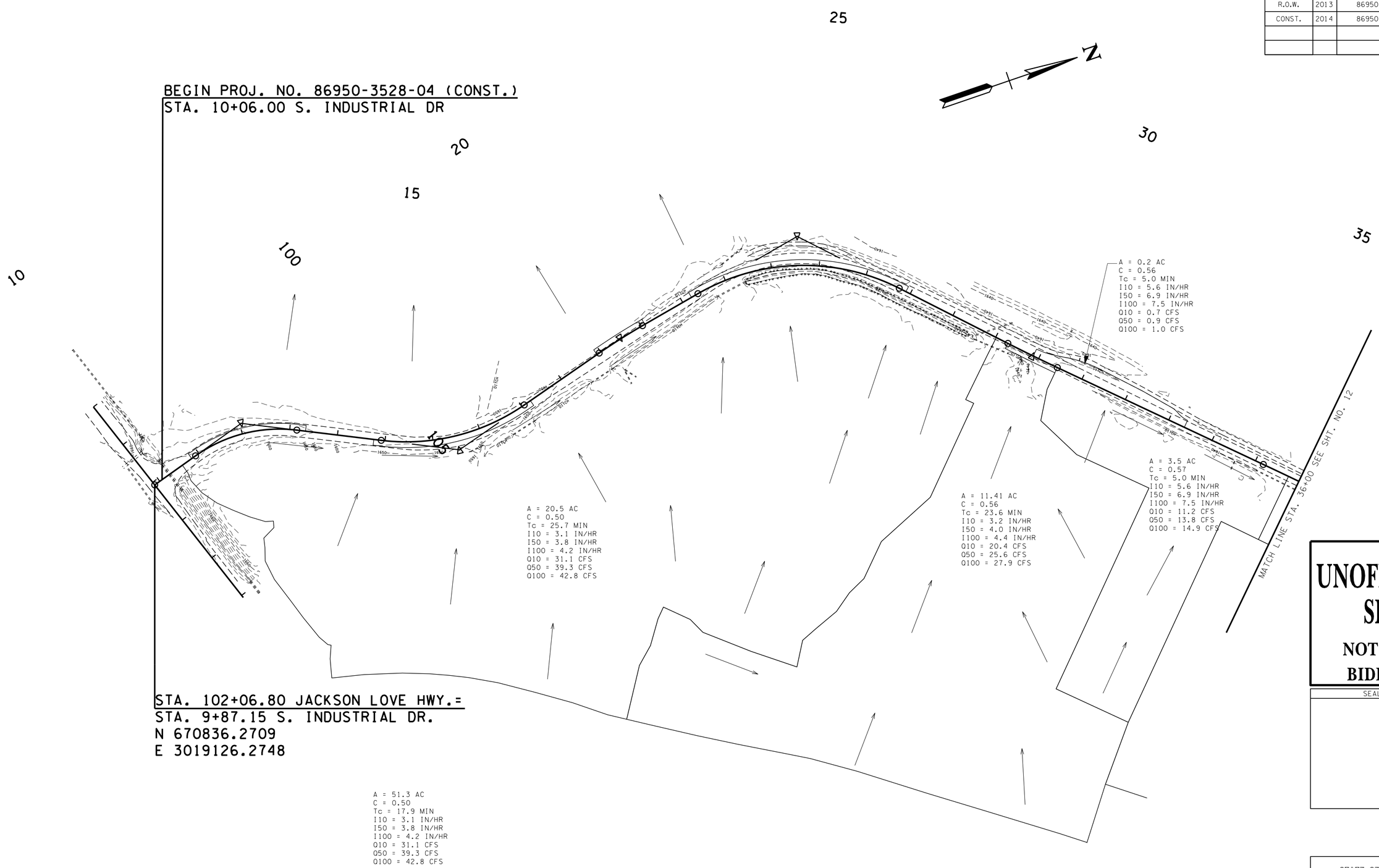
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

SCALE: 1"=50' HORIZ.
1"=10' VERT.

8-MAR-2014 13:16
\\thp-gp\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\010.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	11
CONST.	2014	86950-3528-04	11



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

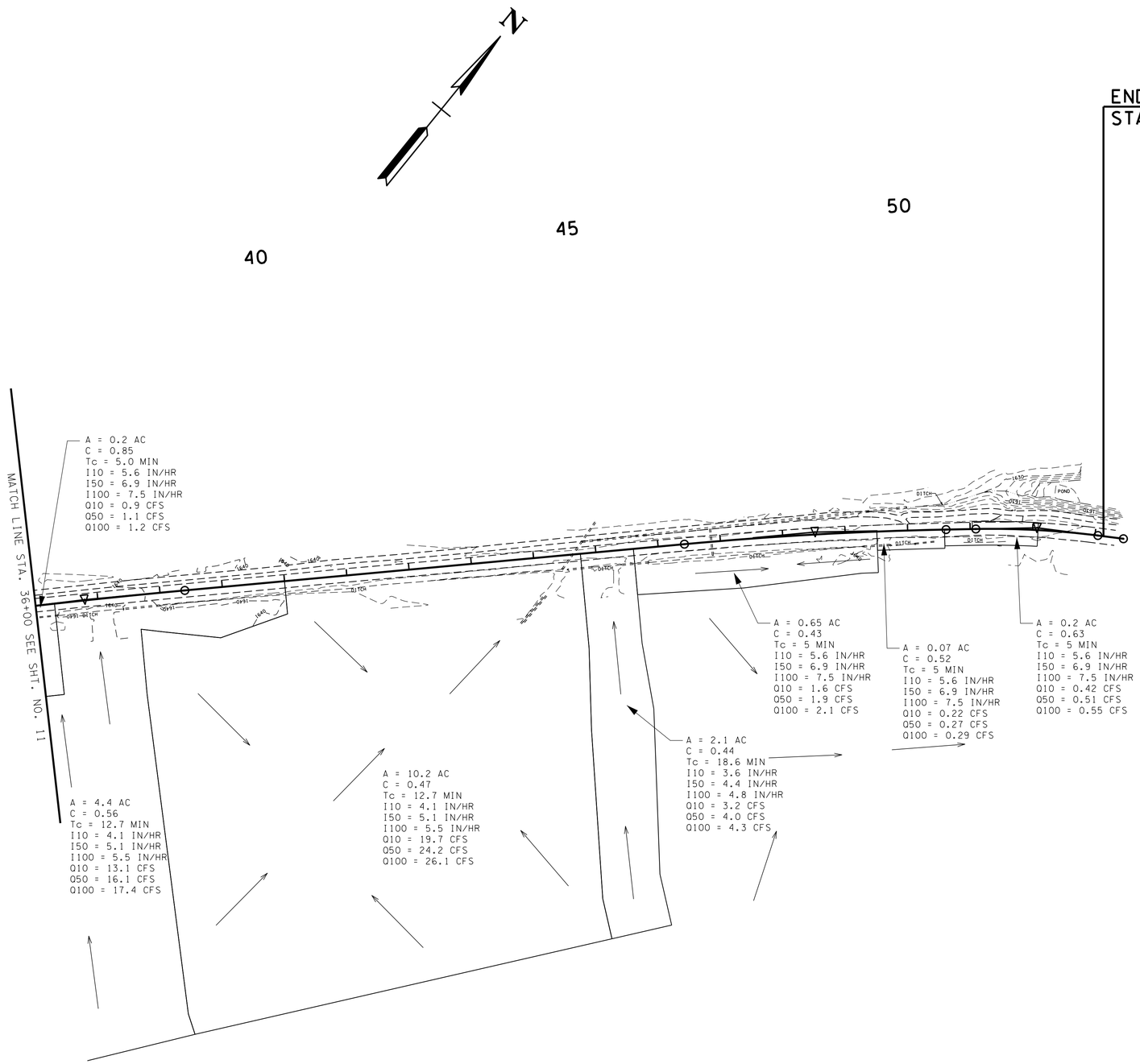
BEG. PROJ. TO STA. 36+00

SCALE: 1"=100'

8-MAR-2014 13:16
\\thp-gp\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\01.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	12
CONST.	2014	86950-3528-04	12

END PROJ. NO. 86950-3528-04 (CONST.)
STA. 53+13.77 S. INDUSTRIAL DR.



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

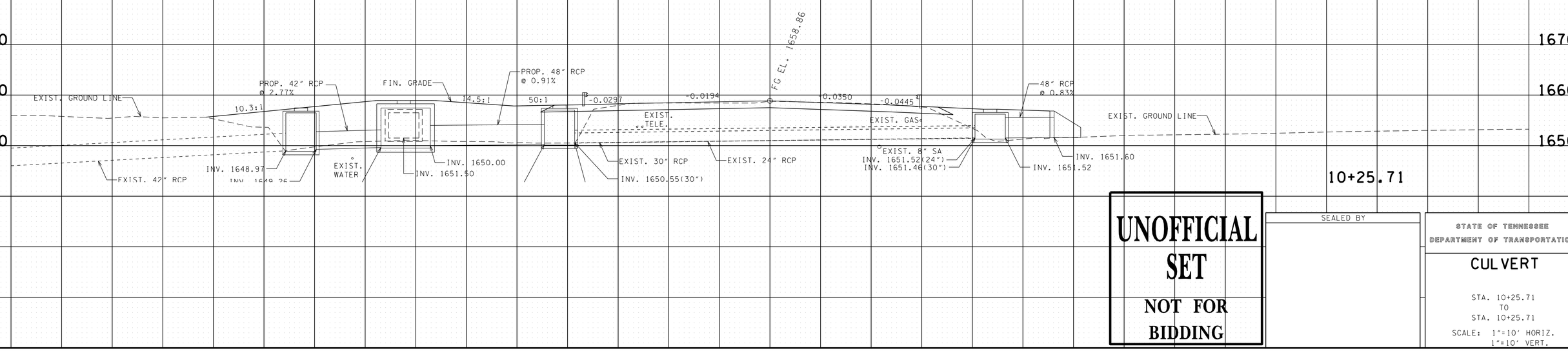
DRAINAGE MAP

STA. 36+00 TO END PROJ.

SCALE: 1"=100'

18-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\012.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	13
CONST.	2014	86950-3528-04	13



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT

STA. 10+25.71
TO
STA. 10+25.71

SCALE: 1"=10' HORIZ.
1"=10' VERT.

18-MAR-2014 13:16
\\thp-ap\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\013.sht

TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	14
CONST.	2014	86950-3528-04	14

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

NPDES

(1) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(2) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(3) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

(4) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(5) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

(6) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.

(7) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY			TOTAL
			PHASE I	PHASE II	PHASE III	
209-05	SEDIMENT REMOVAL	C.Y.	204			204
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.		89		89
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	200			200
209-08.07	ROCK CHECK DAM	EACH	9	17		26
209-08.08	ENHANCED ROCK CHECK DAM	EACH	5			5
209-09.01	SANDBAGS	EACH	360			360
209-09.04	SEDIMENT FILTER BAG (15'x10')	EACH		1		1
209-20.03	POLYETHELENE SHEETING	S.Y.	20			20
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	1		9	10
209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EACH		9		9
209-40.44	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EACH	2	4		6
209-40.45	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EACH		3		3
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	46	22		68
621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	296			296
621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	132			132
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	160			160
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	360	123.2		483.2
740-10.03	GEOTEXTILE (TYPE III)	S.Y.	984	302		1286
740-11.03	TEMPORARY SEDIMENT TUBE (18 INCH)	L.F.	8520			8520
740-11.04	TEMPORARY SEDIMENT TUBE (20 INCH)	L.F.			150	150

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
5	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EC-STR-45
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY DIVERSION CULVERT (DESCRIBE NUMBER AND SIZE OF PIPES)	EC-STR-32

UNOFFICIAL SET

NOT FOR BIDDING

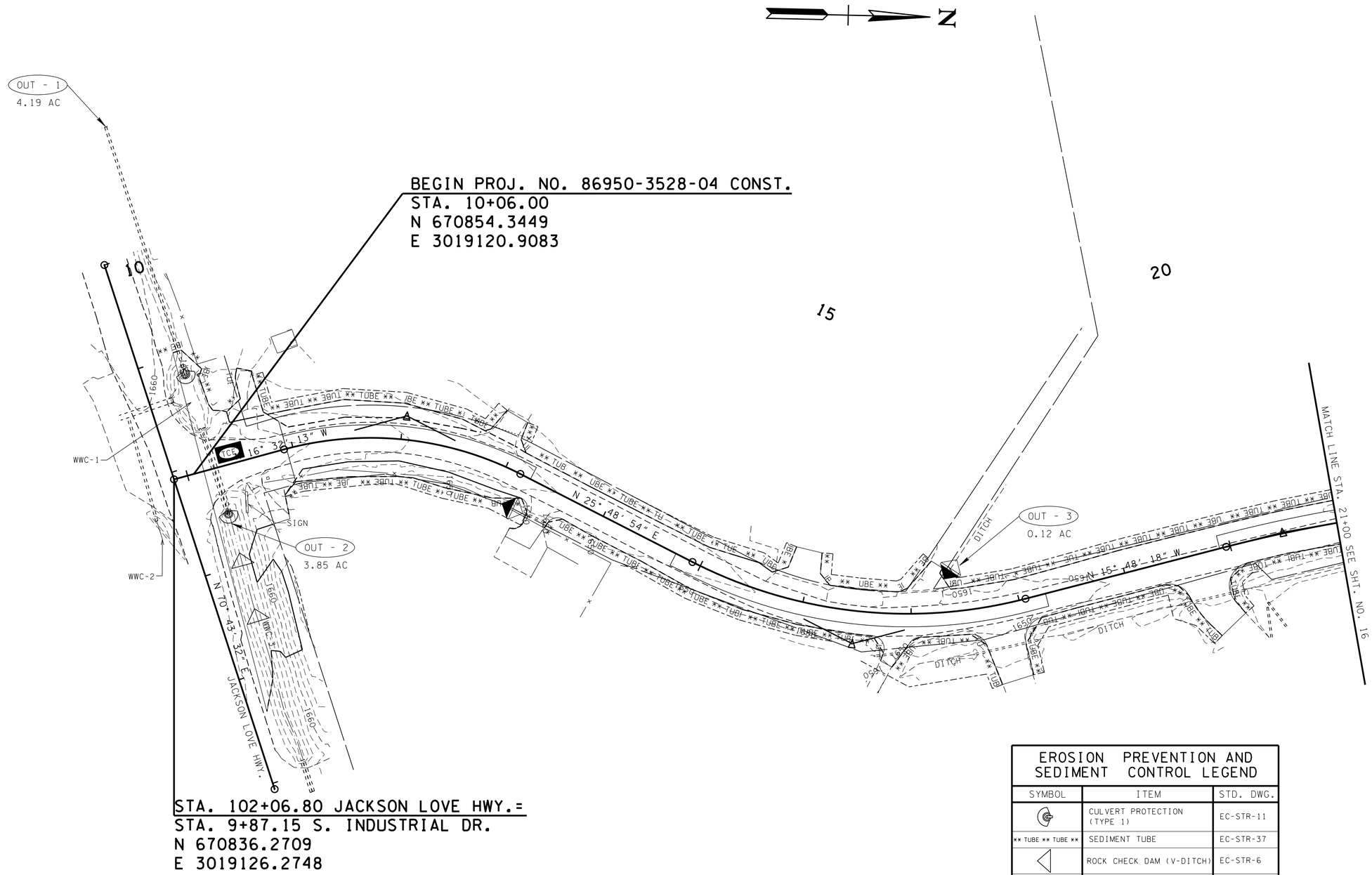
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

18-MAR-2014 13:16
\\thp-gp\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\014.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	15
CONST.	2014	86950-3528-04	15



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
* TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

* TEMPORARY CONSTRUCTION EXIT TO BE FIELD LOCATED BY THE PROJECT ENGINEER.

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 1

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

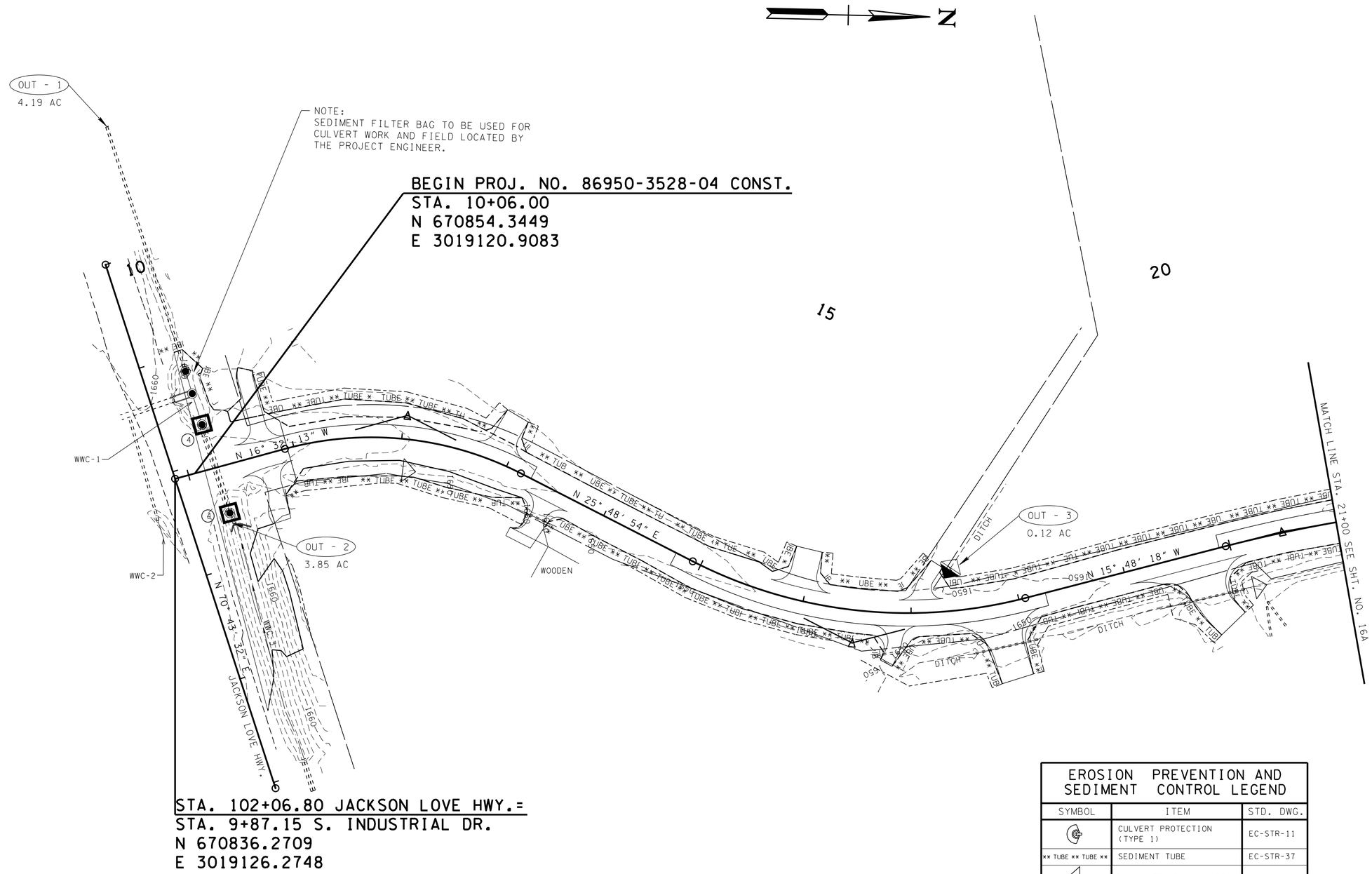
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEGIN PROJ. TO STA. 21+00

SCALE: 1"=50'

18-MAR-2014 13:17
\\thp-ap\civil data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\015.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	15A
CONST.	2014	86950-3528-04	15A



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 2

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

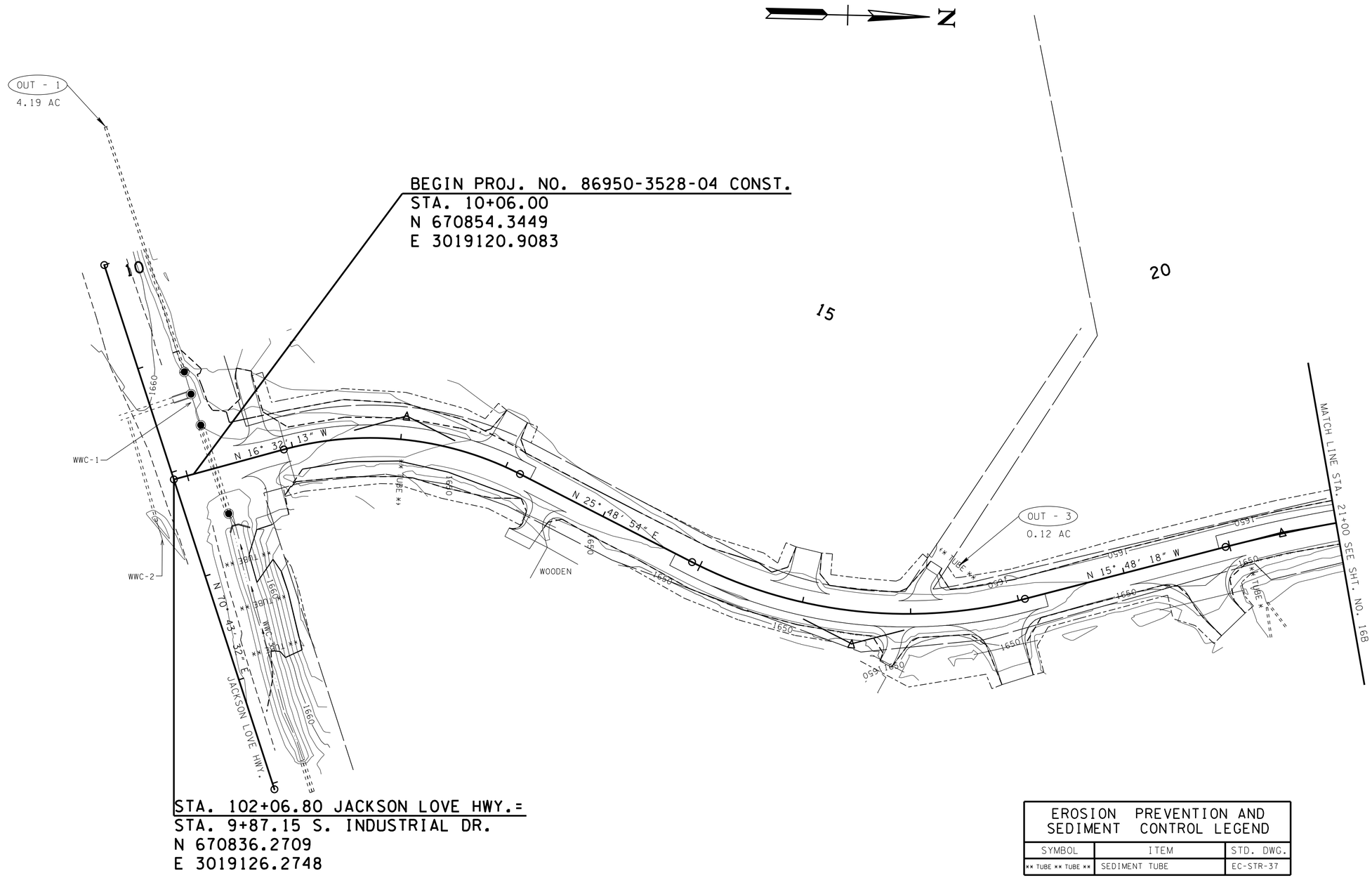
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEGIN PROJ. TO STA. 21+00

SCALE: 1"=50'

18-MAR-2014 13:17
\\thp-ap\civil data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\015A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	15B
CONST.	2014	86950-3528-04	15B



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
×× TUBE ×× TUBE ××	SEDIMENT TUBE	EC-STR-37

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 3

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

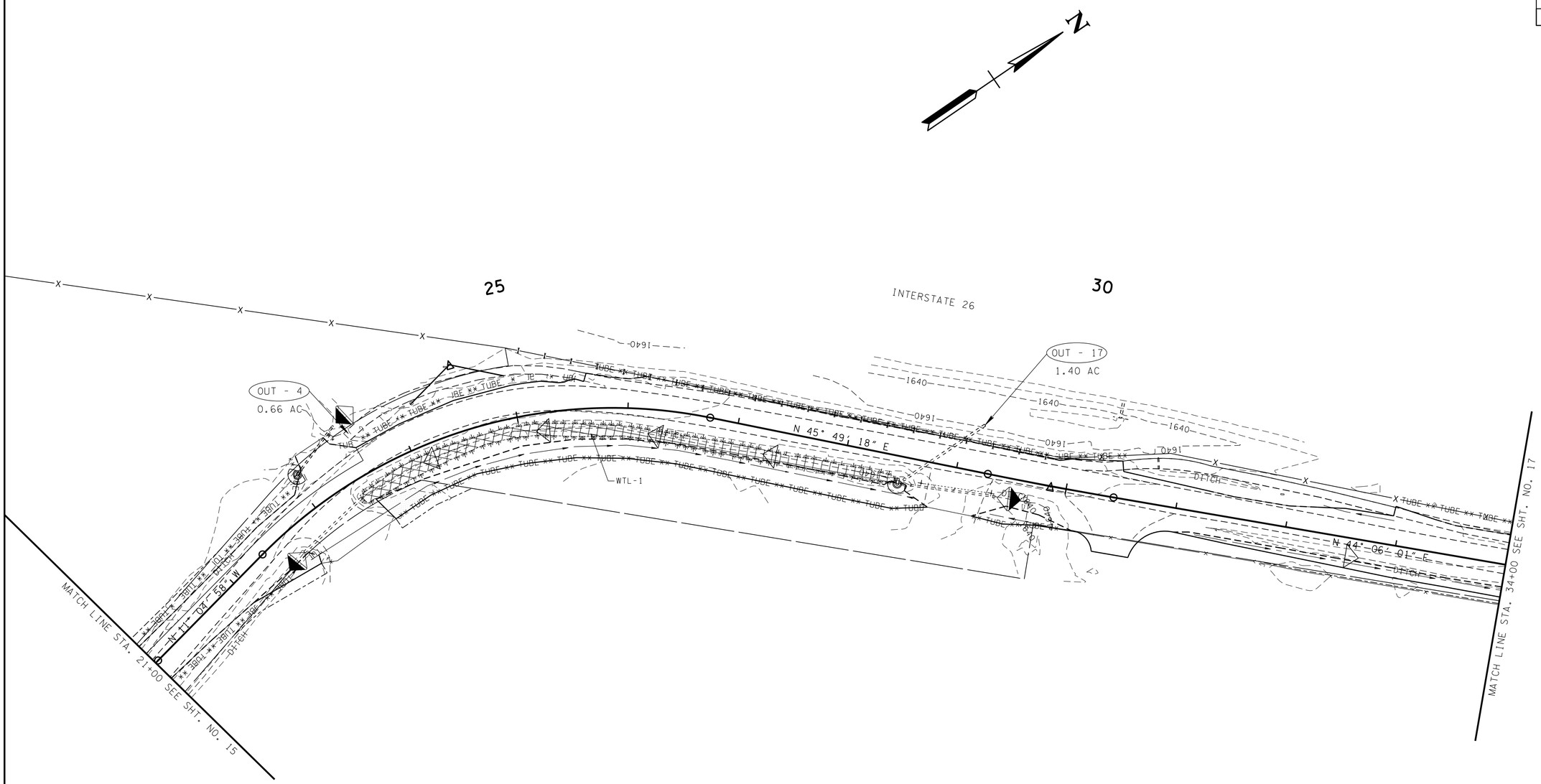
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

BEGIN PROJ. TO STA. 21+00

SCALE: 1"=50'

18-MAR-2014 13:17
\\thp-ap\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\05B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	16
CONST.	2014	86950-3528-04	16



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 1

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

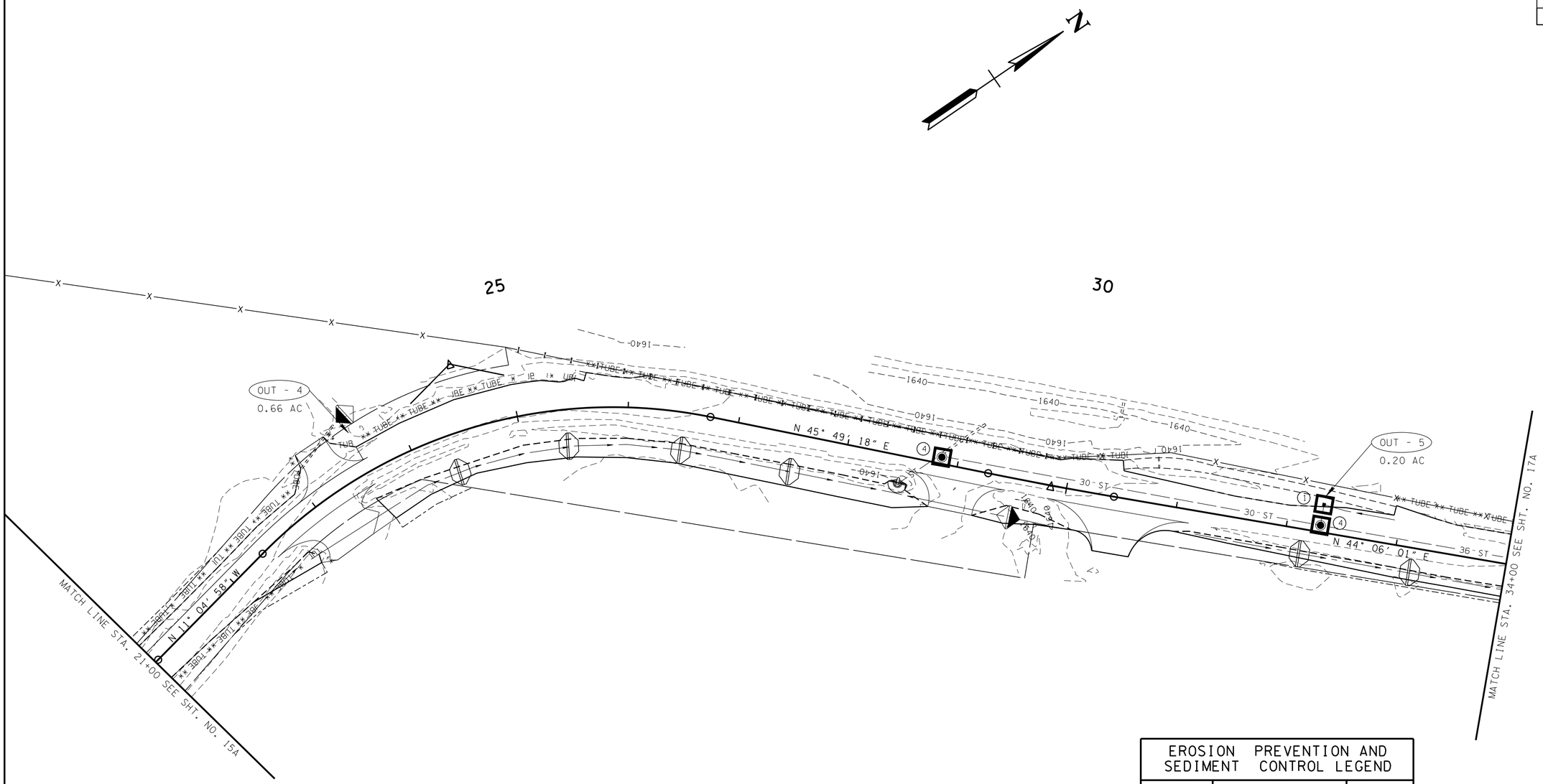
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 21+00 TO STA. 34+00

SCALE: 1"=50'

18-MAR-2014 13:17
\\thp-gp\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\016.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	16A
CONST.	2014	86950-3528-04	16A



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 2

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

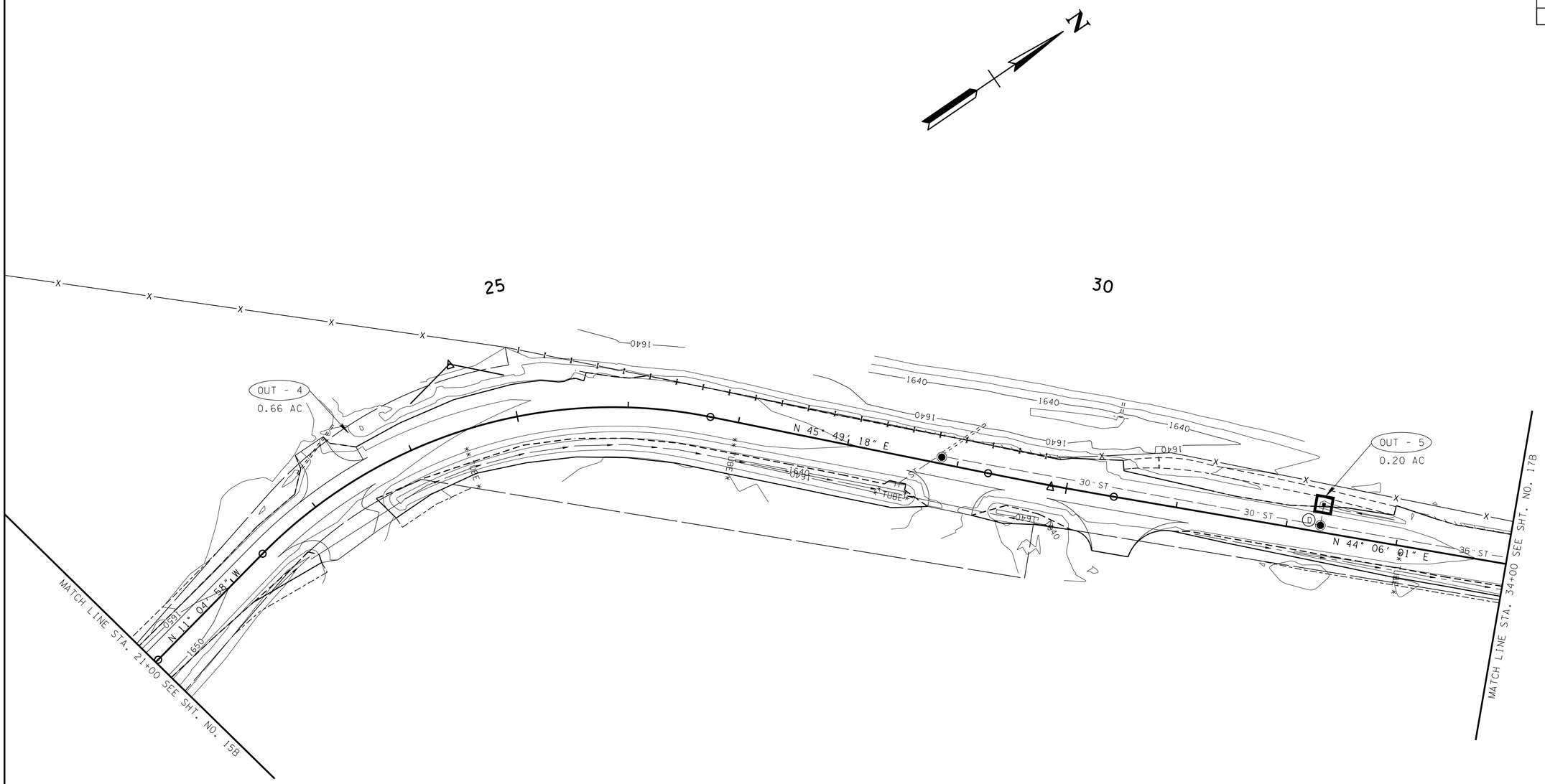
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 21+00 TO STA. 34+00

SCALE: 1"=50'

18-MAR-2014 13:17
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\016A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	16B
CONST.	2014	86950-3528-04	16B



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 3

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

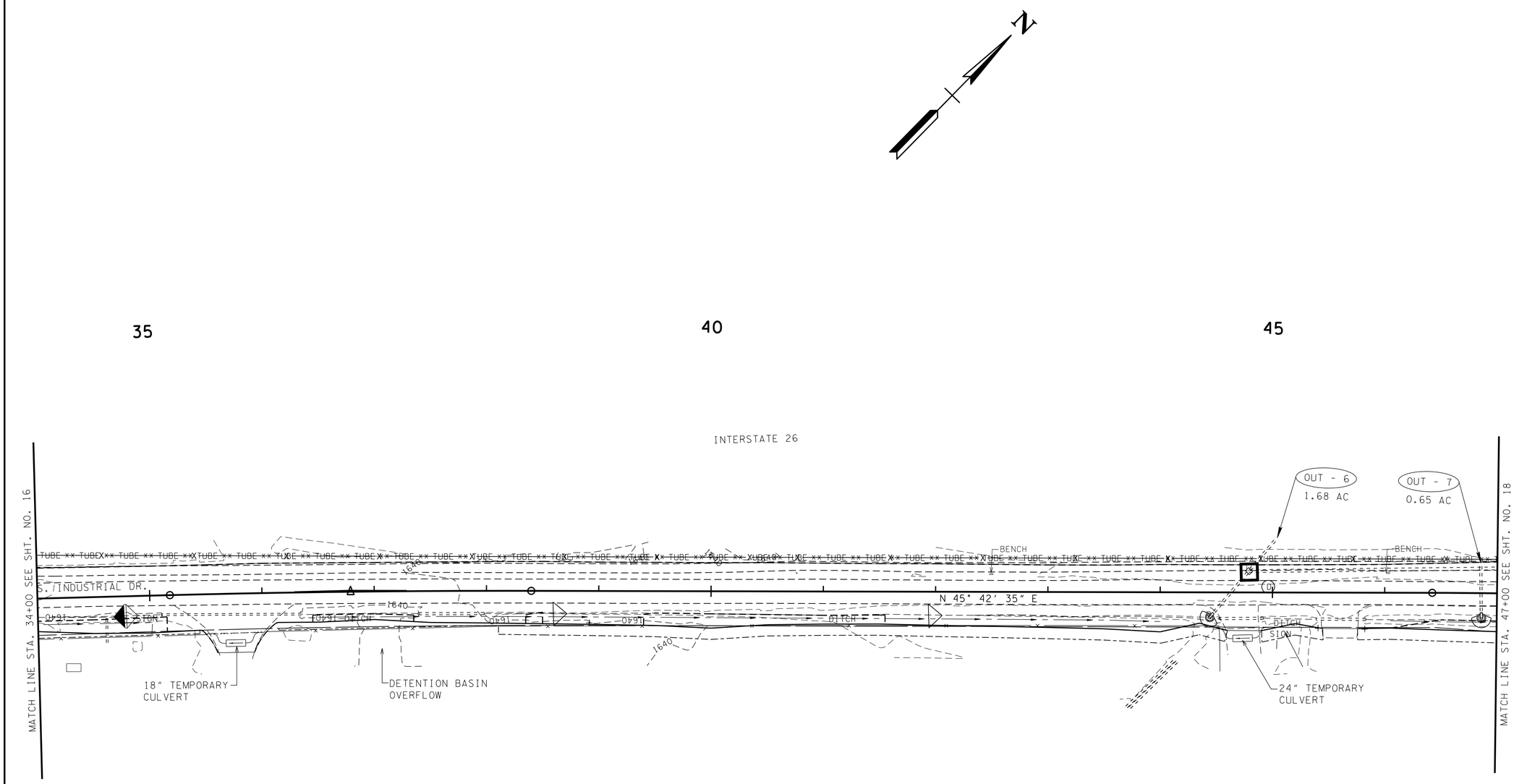
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 21+00 TO STA. 34+00

SCALE: 1"=50'

18-MAR-2014 13:17
\\thp-ap\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\016B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	17
CONST.	2014	86950-3528-04	17



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
×× TUBE ×× TUBE ××	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	TEMPORARY DIVERSION CULVERT (DESCRIBE NUMBER AND SIZE OF PIPES)	EC-STR-32

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 1

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

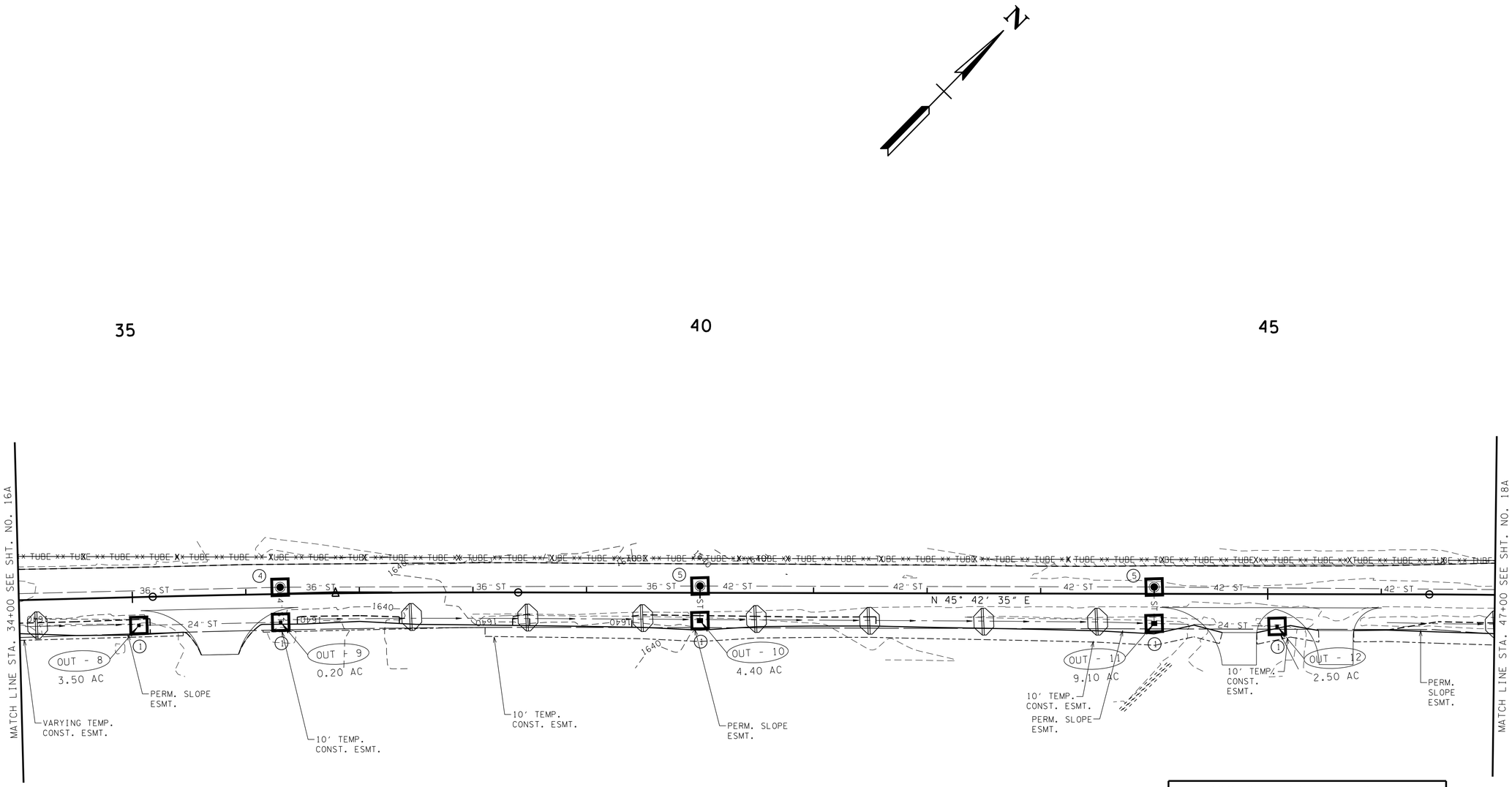
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 34+00 TO STA. 47+00

SCALE: 1"=50'

18-MAR-2014 13:17
\\thp-op\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\017.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	17A
CONST.	2014	86950-3528-04	17A



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
5	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EC-STR-45

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 2

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

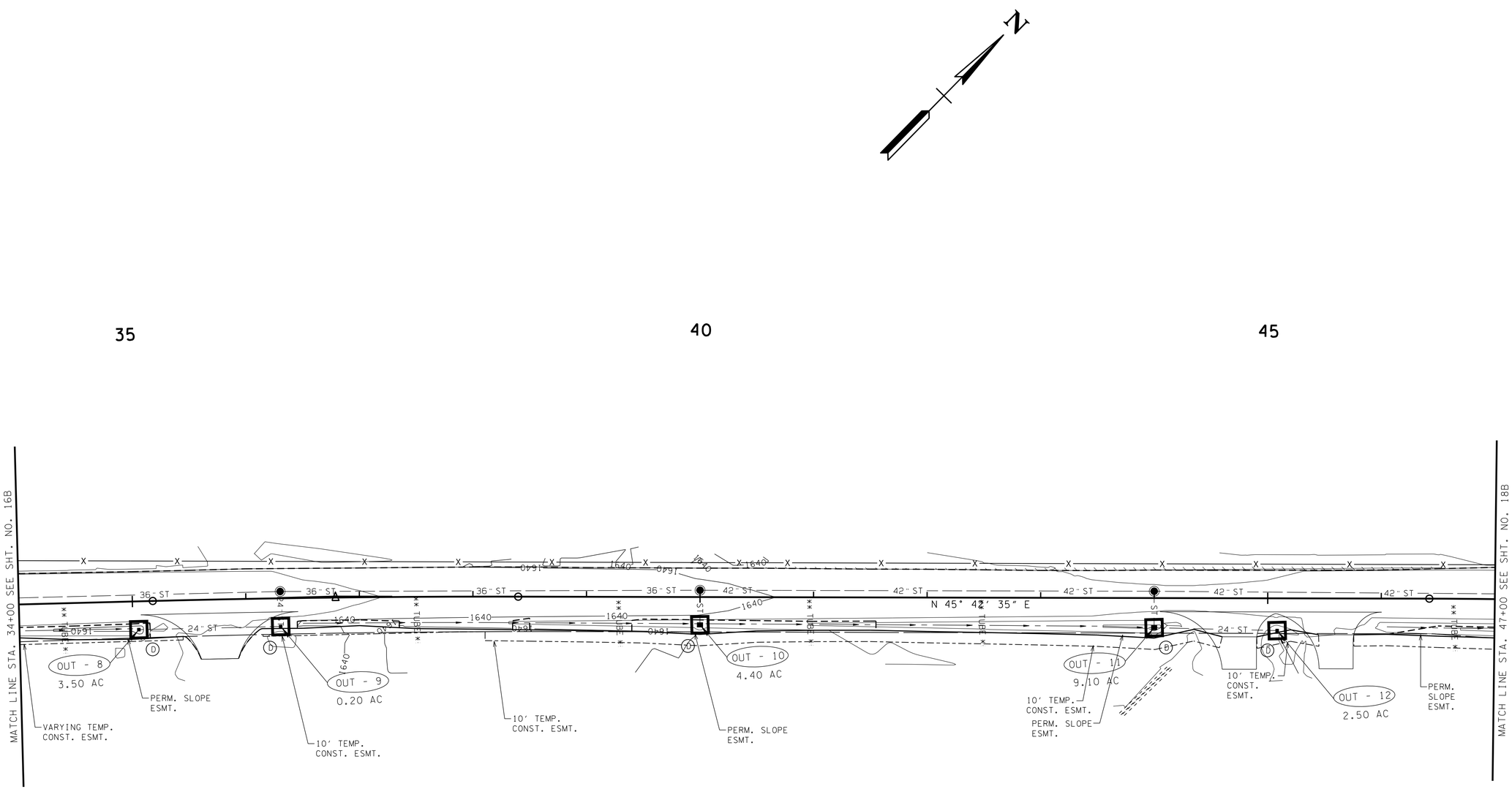
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 34+00 TO STA. 47+00

SCALE: 1"=50'

8-MAR-2014 13:17
\\thp-ap\civildata\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\OITA.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	17B
CONST.	2014	86950-3528-04	17B



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
(D)	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 3

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

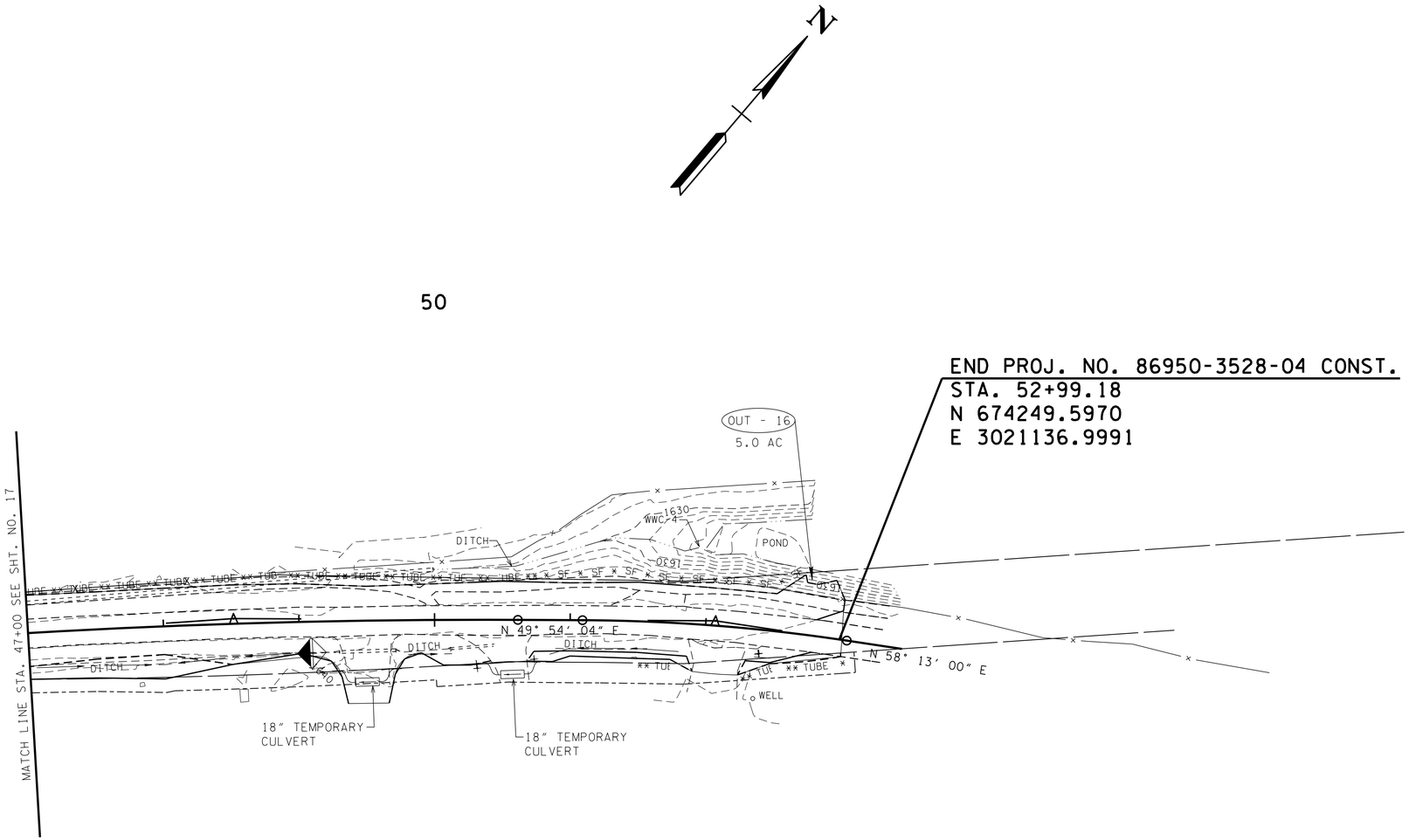
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 34+00 TO STA. 47+00

SCALE: 1"=50'

18-MAR-2014 13:18
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\017B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	18
CONST.	2014	86950-3528-04	18



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	TEMPORARY DIVERSION CULVERT (DESCRIBE NUMBER AND SIZE OF PIPES)	EC-STR-32

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 1

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

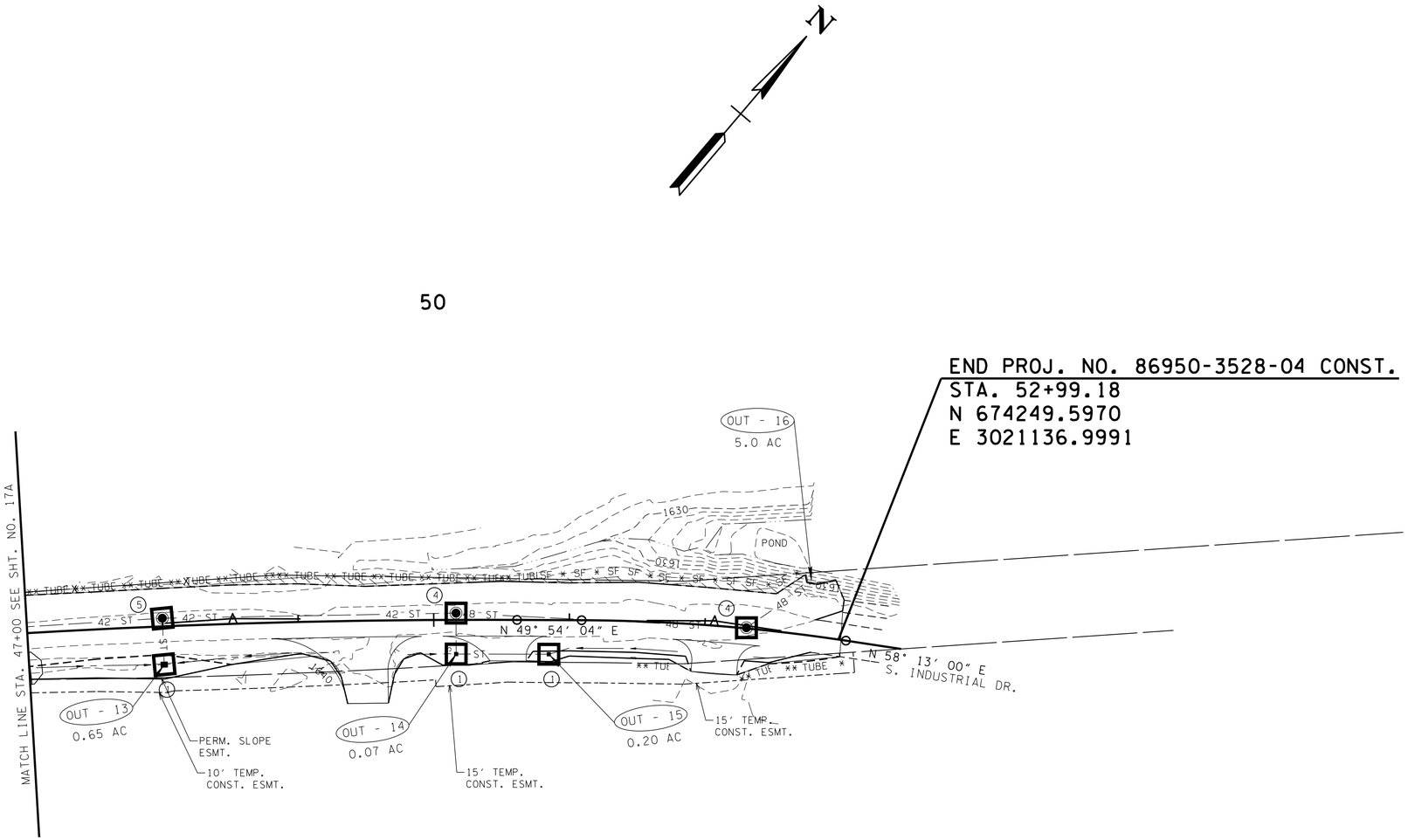
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 47+00 TO END PROJ.

SCALE: 1"=50'

18-MAR-2014 13:18
\\thp-ap\civil data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\018.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	18A
CONST.	2014	86950-3528-04	18A



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
* SF * SF * SF *	SILT FENCE	EC-STR-3B
(1)	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
(4)	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
(5)	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EC-STR-45

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 2

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

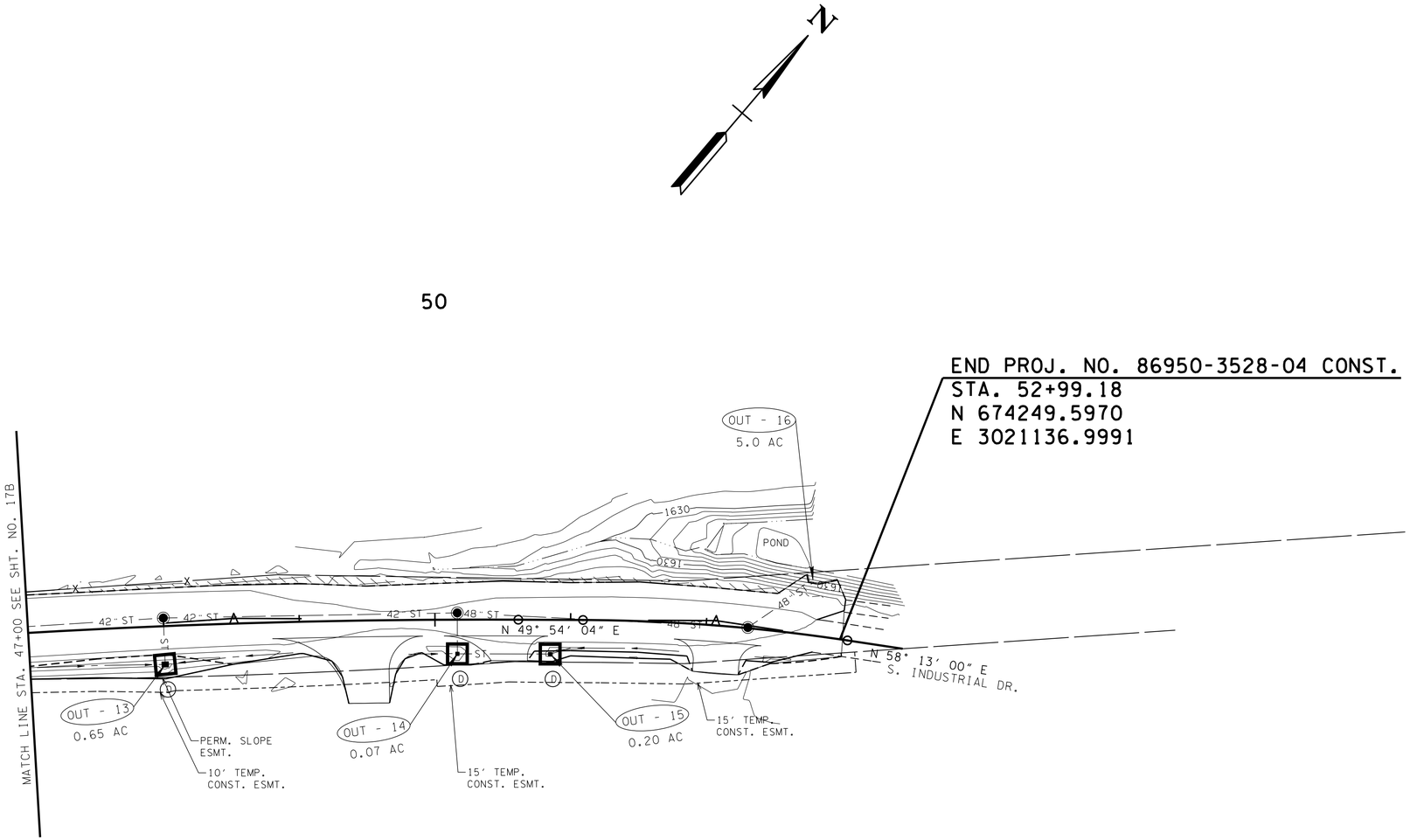
EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 47+00 TO END PROJ.

SCALE: 1"=50'

18-MAR-2014 13:18
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\018A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	18B
CONST.	2014	86950-3528-04	18B



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 3

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA. 47+00 TO END PROJ.

SCALE: 1"=50'

18-MAR-2014 13:18
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\018B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	19

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES:

   a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

   d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

   c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

   a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

   b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

   c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.

   d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

   FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

   WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

   a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

      (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

      (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

   b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

   THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL NOTES

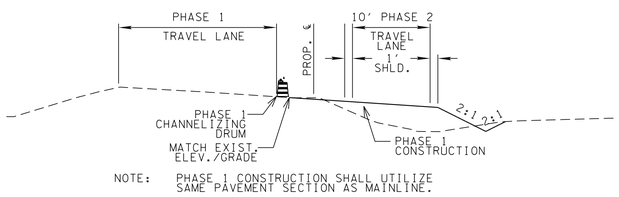
18-MAR-2014 13:18
\\thp-ap\civildata\Jobs-2010\0\02703C - Erwin S Ind Drive\Drawings\Construction\019.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	20

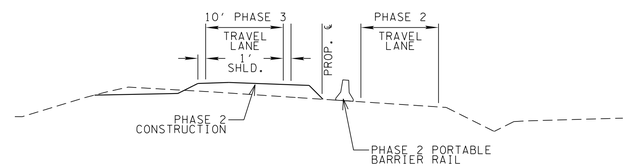
TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	M.U.T.C.D. NO.	UNIT	SIGNS S.F./ EACH	SIZE	PHASE 1	PHASE 2	PHASE 3	TOTAL	REMARKS
		END ROAD WORK	G20-2A		4.5	36"X18"	13.5			13.5	
		ROAD WORK 1500 FT	W20-1		9	36"X36"	45			45	
		ROAD WORK 1000 FT	W20-1		9	36"X36"	45			45	
		ROAD WORK 500 FT	W20-1		9	36"X36"	45			45	
		FLAGGER	W20-7		9	36"X36"	36			36	
		STOP	R1-1		2	30"X30"	12.6			12.6	
		SIDEWALK CLOSED	R9-9		2	24"X12"	4			4	
		STOP HERE ON RED	R10-6		6	24"X36"		72	66	138	
(1)	712-06	**TOTALS FOR SIGNS**		S.F.						**339.10**	
	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 - TL3		EACH					1	1	
(1)	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL		L.F.				4330	4300	4330	
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)		EACH			100	3		103	
	712-05.03	WARNING LIGHTS (TYPE C)		EACH			50			50	
(1)	712-06.01	VERTICAL PANELS		S.F.	1.33	24"X8"		688	688	688	
(1)	712-07.03	TEMPORARY BARRICADES (TYPE III)		L.F.				168	168	168	
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)		L.F.			34	144	132	310	
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)		L.M.			.75	1.25	2	4	
(1)	730-40.01	PORTABLE TRAFFIC SIGNAL SYSTEM		EACH				3	3	3	

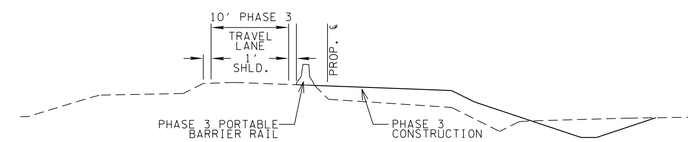
(1) TOTAL QUANTITY FOR ITEM INCLUDES ONLY THE MAXIMUM REQUIRED FOR ANY ONE PHASE.



PHASE 1 TYPICAL SECTION



PHASE 2 TYPICAL SECTION



PHASE 3 TYPICAL SECTION

UNOFFICIAL SET

NOT FOR BIDDING

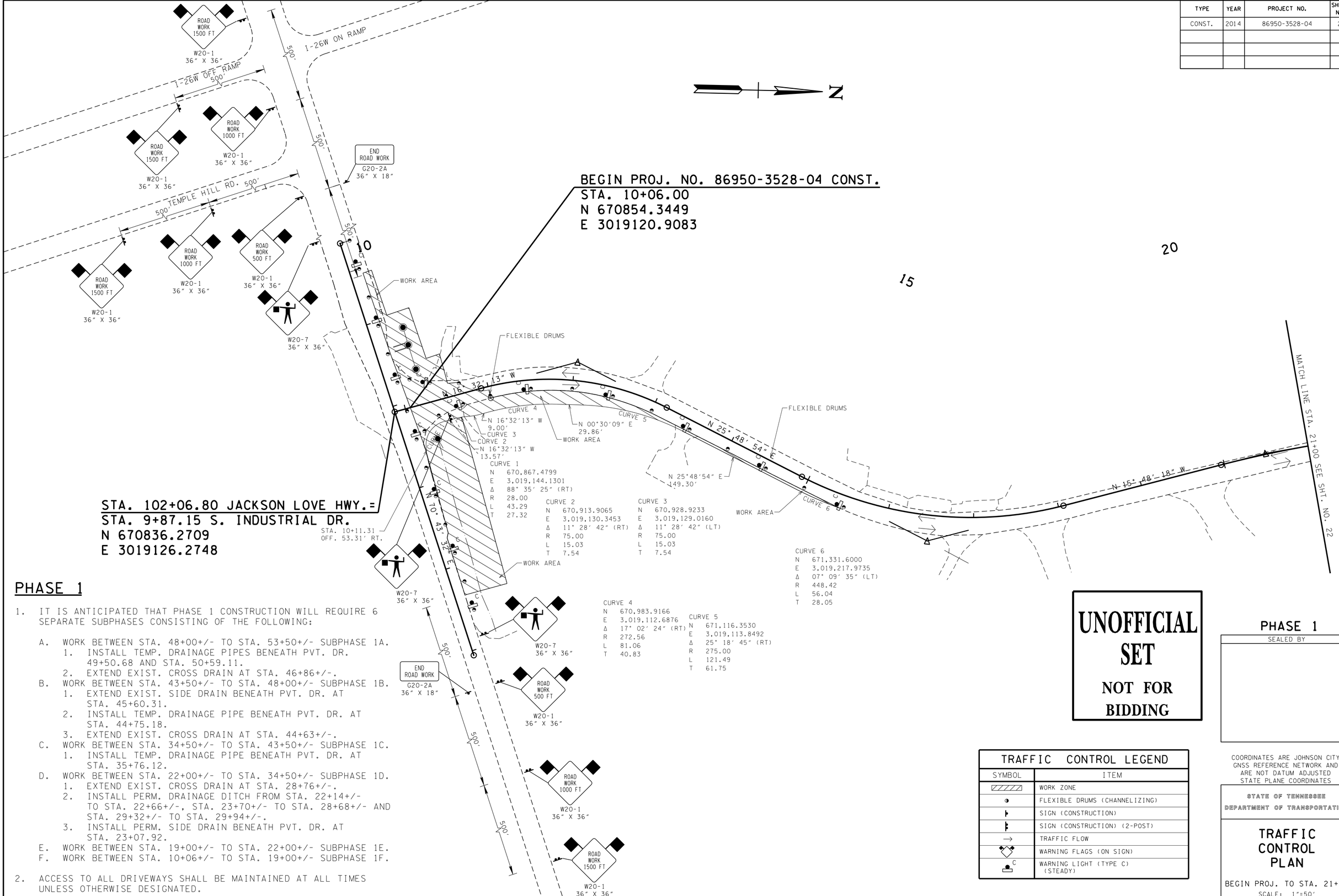
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS

18-MAR-2014 13:19
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\020.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	21



PHASE 1

1. IT IS ANTICIPATED THAT PHASE 1 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 1A.
      1. INSTALL TEMP. DRAINAGE PIPES BENEATH PVT. DR. 49+50.68 AND STA. 50+59.11.
      2. EXTEND EXIST. CROSS DRAIN AT STA. 46+86+/-.
   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 1B.
      1. EXTEND EXIST. SIDE DRAIN BENEATH PVT. DR. AT STA. 45+60.31.
      2. INSTALL TEMP. DRAINAGE PIPE BENEATH PVT. DR. AT STA. 44+75.18.
      3. EXTEND EXIST. CROSS DRAIN AT STA. 44+63+/-.
   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 1C.
      1. INSTALL TEMP. DRAINAGE PIPE BENEATH PVT. DR. AT STA. 35+76.12.
   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 1D.
      1. EXTEND EXIST. CROSS DRAIN AT STA. 28+76+/-.
      2. INSTALL PERM. DRAINAGE DITCH FROM STA. 22+14+/- TO STA. 22+66+/-, STA. 23+70+/- TO STA. 28+68+/- AND STA. 29+32+/- TO STA. 29+94+/-.
      3. INSTALL PERM. SIDE DRAIN BENEATH PVT. DR. AT STA. 23+07.92.
   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 1E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 1F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

UNOFFICIAL SET

NOT FOR BIDDING

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	WARNING FLAGS (ON SIGN)
C	WARNING LIGHT (TYPE C) (STEADY)

PHASE 1

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

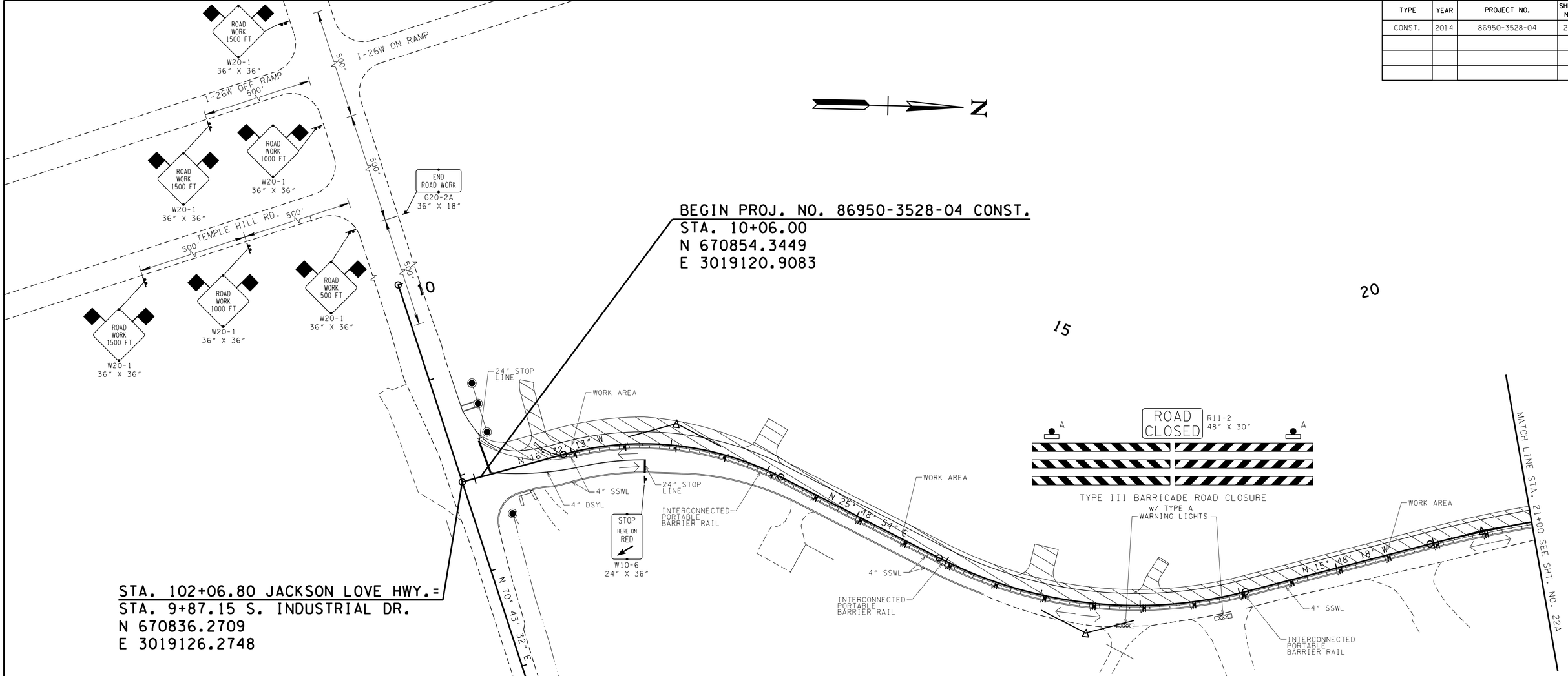
TRAFFIC CONTROL PLAN

BEGIN PROJ. TO STA. 21+00

SCALE: 1"=50'

18-MAR-2014 13:19
\\thp-dp\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\02l.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	21A



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH SINGLE VERTICAL PANELS)
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	WARNING FLAGS (ON SIGN)
	TEMPORARY BARRICADE (TYPE III)
C	WARNING LIGHT (TYPE C) (STEADY)

PHASE 2

1. IT IS ANTICIPATED THAT PHASE 2 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 2A.
   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 2B.
   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 2C.
   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 2D.
   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 2E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 2F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 2

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

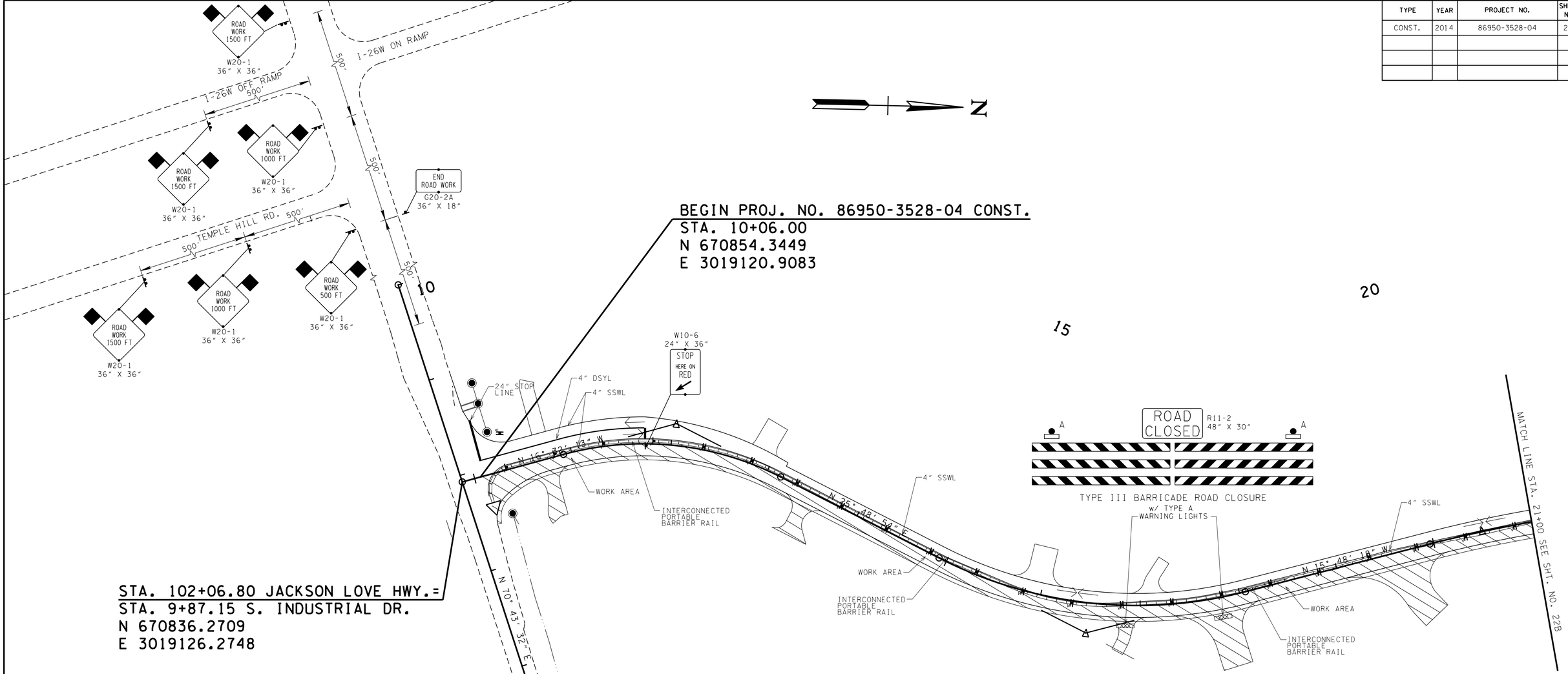
TRAFFIC CONTROL PLAN

BEGIN PROJ. TO STA. 21+00

SCALE: 1"=50'

18-MAR-2014 13:19
\\thp-ap\civildata\Jobs-2010\0127030 - Erwin S Ind Drive\Drawings\Construction\021A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	21B



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH SINGLE VERTICAL PANELS)
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	WARNING FLAGS (ON SIGN)
	TEMPORARY BARRICADE (TYPE III)
C	WARNING LIGHT (TYPE C) (STEADY)

PHASE 3

1. IT IS ANTICIPATED THAT PHASE 3 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 3A.
   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 3B.
   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 3C.
   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 3D.
   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 3E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 3F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 3

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

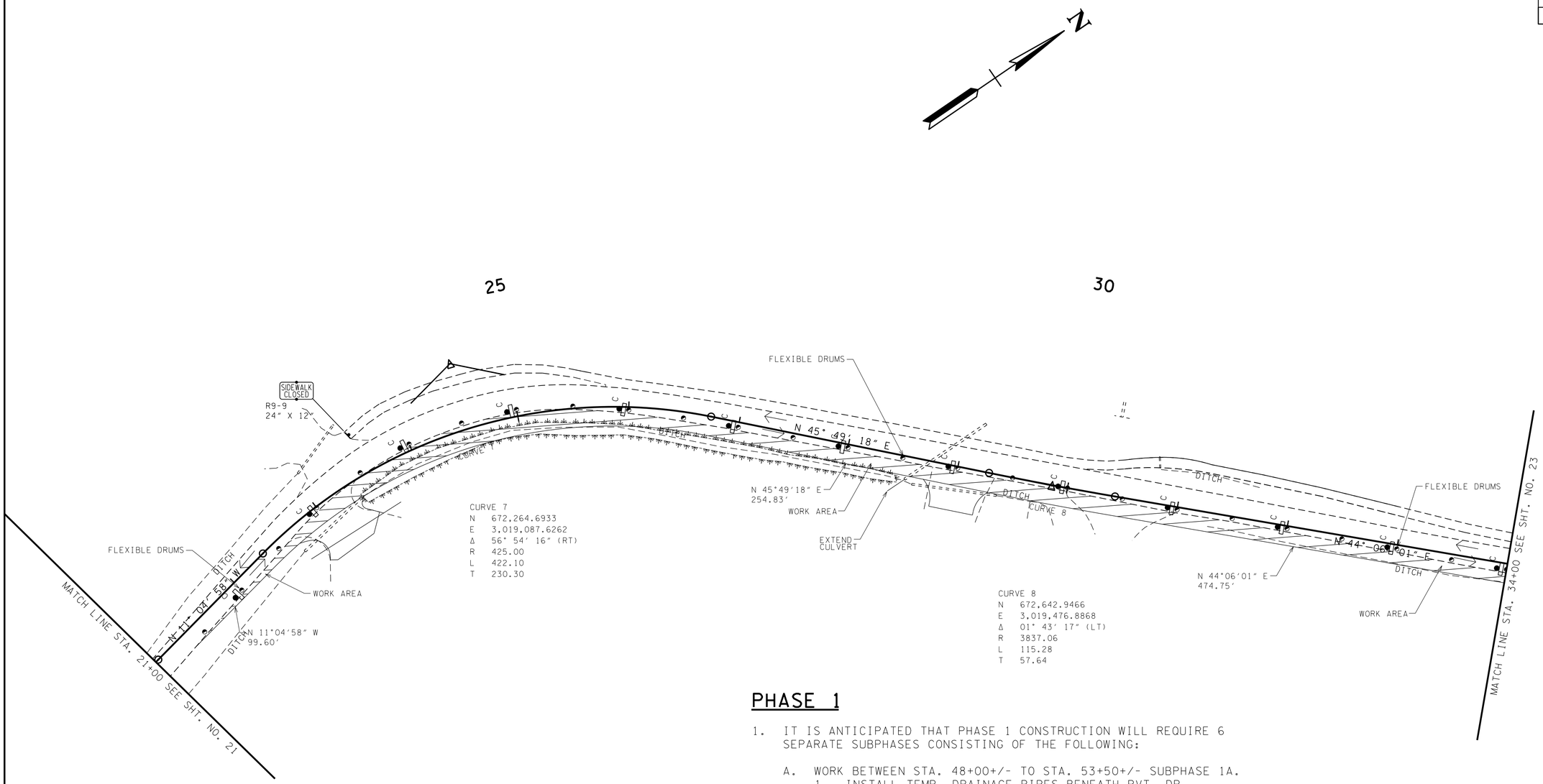
TRAFFIC CONTROL PLAN

BEGIN PROJ. TO STA. 21+00

SCALE: 1"=50'

18-MAR-2014 13:19
\\thp-ap\civildata\Jobs-2010\0\2703C - Erwin S Ind Drive\Drawings\Construction\021B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	22



CURVE 7
N 672,264.6933
E 3,019,087.6262
Δ 56° 54' 16" (RT)
R 425.00
L 422.10
T 230.30

CURVE 8
N 672,642.9466
E 3,019,476.8868
Δ 01° 43' 17" (LT)
R 3837.06
L 115.28
T 57.64

PHASE 1

1. IT IS ANTICIPATED THAT PHASE 1 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 1A.
      1. INSTALL TEMP. DRAINAGE PIPES BENEATH PVT. DR. 49+50.68 AND STA. 50+59.11.
      2. EXTEND EXIST. CROSS DRAIN AT STA. 46+86+/-.
   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 1B.
      1. EXTEND EXIST. SIDE DRAIN BENEATH PVT. DR. AT STA. 45+60.31.
      2. INSTALL TEMP. DRAINAGE PIPE BENEATH PVT. DR. AT STA. 44+75.18.
      3. EXTEND EXIST. CROSS DRAIN AT STA. 44+63+/-.
   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 1C.
      1. INSTALL TEMP. DRAINAGE PIPE BENEATH PVT. DR. AT STA. 35+76.12.
   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 1D.
      1. EXTEND EXIST. CROSS DRAIN AT STA. 28+76+/-.
      2. INSTALL PERM. DRAINAGE DITCH FROM STA. 22+14+/- TO STA. 22+66+/-, STA. 23+70+/- TO STA. 28+68+/- AND STA. 29+32+/- TO STA. 29+94+/-.
      3. INSTALL PERM. SIDE DRAIN BENEATH PVT. DR. AT STA. 23+07.92.
   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 1E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 1F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	WARNING FLAGS (ON SIGN)
C	WARNING LIGHT (TYPE C) (STEADY)

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 1

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

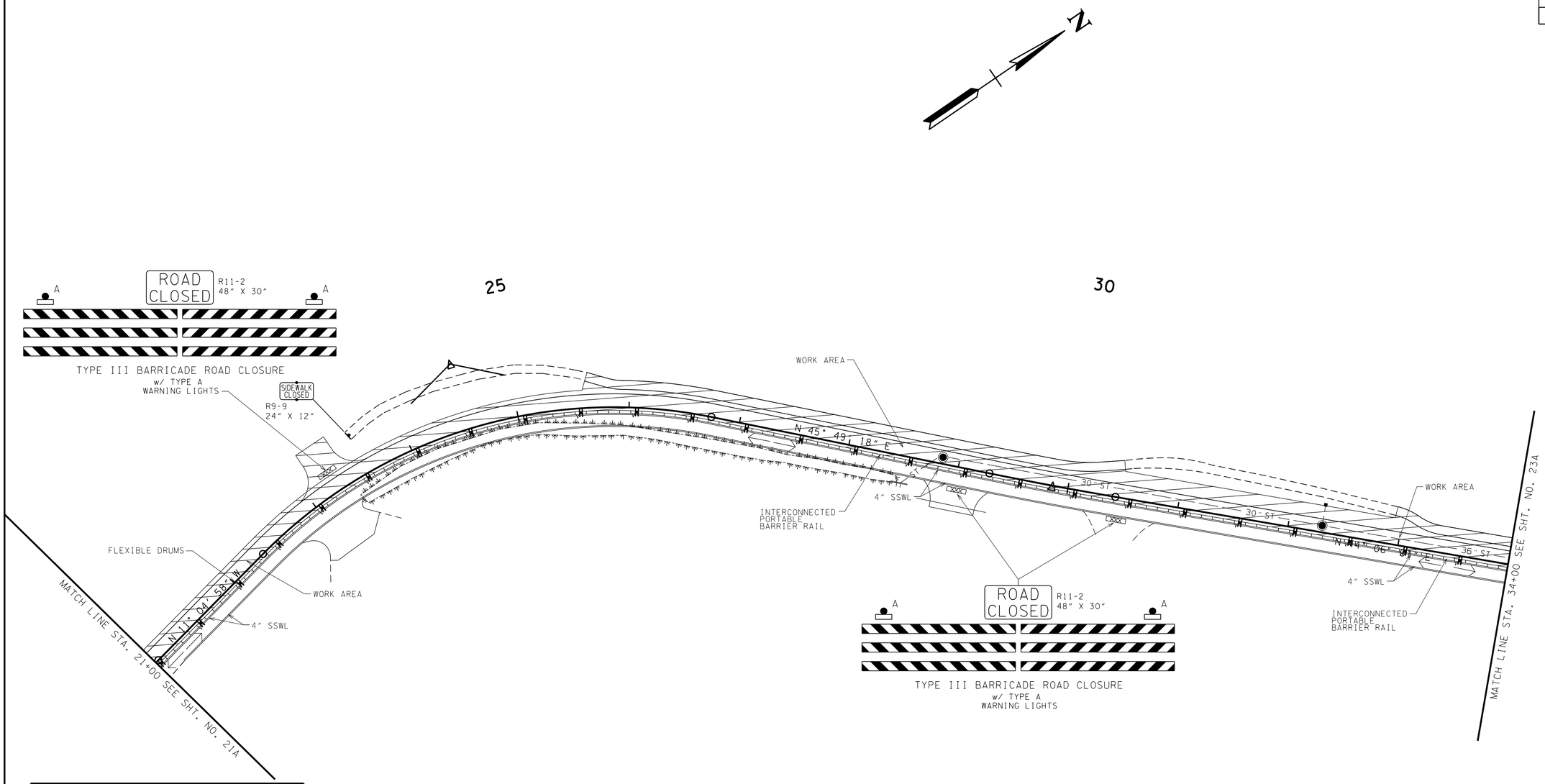
TRAFFIC CONTROL PLAN

STA. 21+00 TO STA. 34+00

SCALE: 1"=50'

18-MAR-2014 13:20
\\thp-ap\civil data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\022.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	22A



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	WARNING FLAGS (ON SIGN)
	TEMPORARY BARRICADE (TYPE III)
C	WARNING LIGHT (TYPE C) (STEADY)

PHASE 2

1. IT IS ANTICIPATED THAT PHASE 2 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 2A.
   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 2B.
   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 2C.
   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 2D.
   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 2E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 2F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 2

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

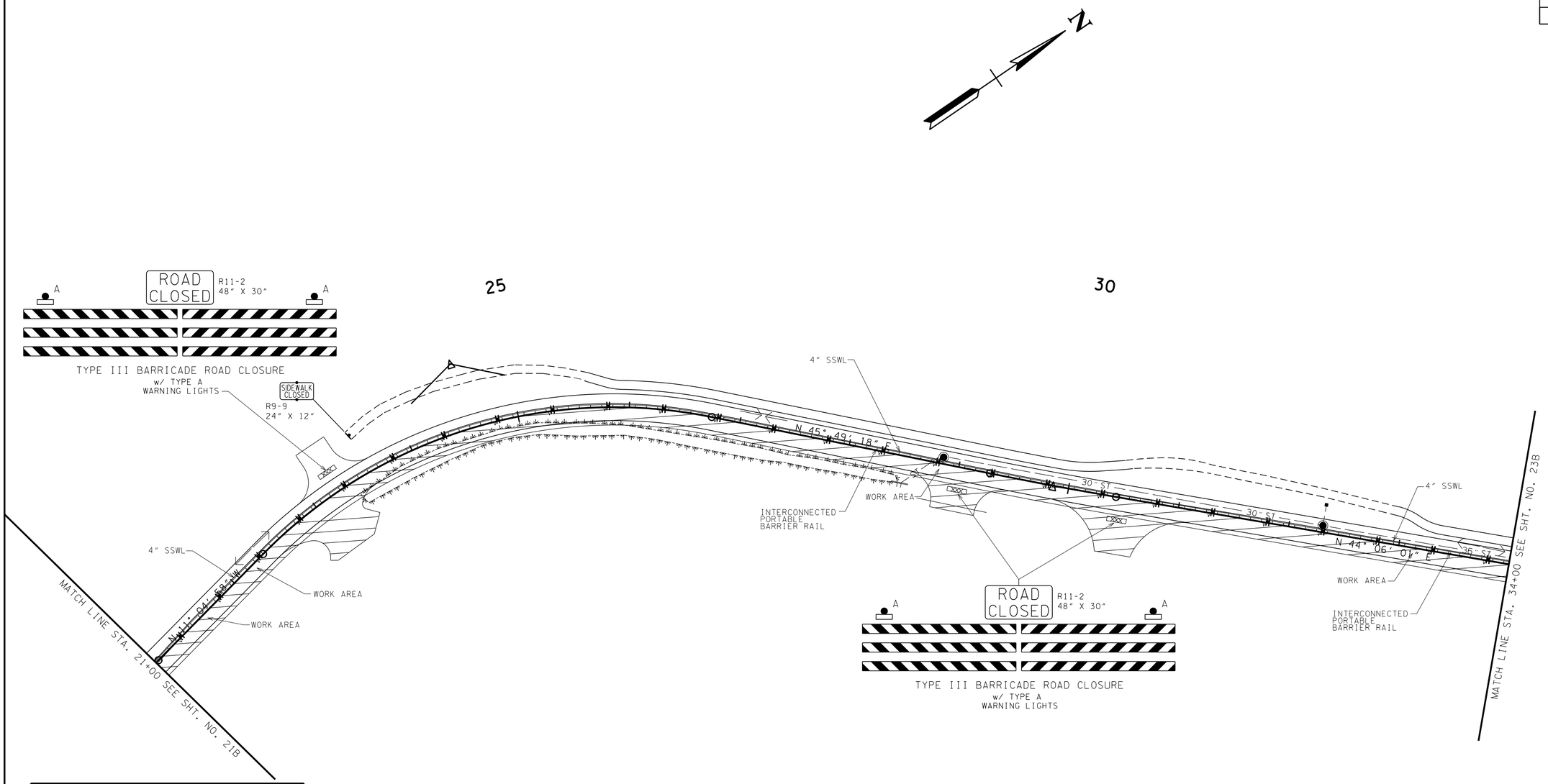
TRAFFIC CONTROL PLAN

STA. 21+00 TO STA. 34+00

SCALE: 1"=50'

18-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\022A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	22B



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	WARNING FLAGS (ON SIGN)
	TEMPORARY BARRICADE (TYPE III)
C	WARNING LIGHT (TYPE C) (STEADY)

PHASE 3

1. IT IS ANTICIPATED THAT PHASE 3 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 3A.
   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 3B.
   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 3C.
   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 3D.
   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 3E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 3F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 3

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

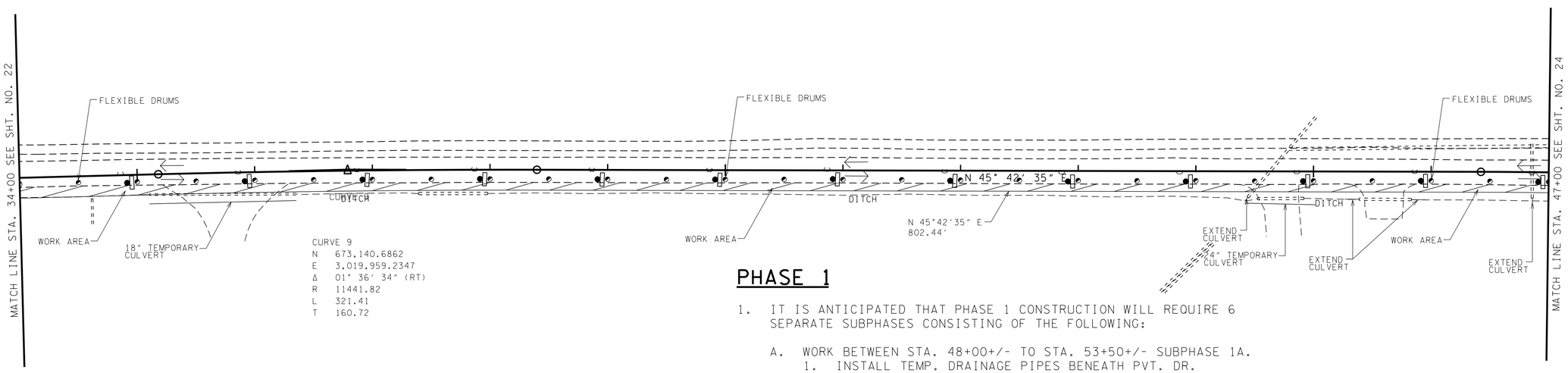
TRAFFIC CONTROL PLAN

STA. 21+00 TO STA. 34+00

SCALE: 1"=50'

18-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\022B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	23



PHASE 1

1. IT IS ANTICIPATED THAT PHASE 1 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 1A.
      1. INSTALL TEMP. DRAINAGE PIPES BENEATH PVT. DR. 49+50.68 AND STA. 50+59.11.
      2. EXTEND EXIST. CROSS DRAIN AT STA. 46+86+/-.

   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 1B.
      1. EXTEND EXIST. SIDE DRAIN BENEATH PVT. DR. AT STA. 45+60.31.
      2. INSTALL TEMP. DRAINAGE PIPE BENEATH PVT. DR. AT STA. 44+75.18.
      3. EXTEND EXIST. CROSS DRAIN AT STA. 44+63+/-.

   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 1C.
      1. INSTALL TEMP. DRAINAGE PIPE BENEATH PVT. DR. AT STA. 35+76.12.

   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 1D.
      1. EXTEND EXIST. CROSS DRAIN AT STA. 28+76+/-.
      2. INSTALL PERM. DRAINAGE DITCH FROM STA. 22+14+/- TO STA. 22+66+/-, STA. 23+70+/- TO STA. 28+68+/- AND STA. 29+32+/- TO STA. 29+94+/-.
      3. INSTALL PERM. SIDE DRAIN BENEATH PVT. DR. AT STA. 23+07.92.

   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 1E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 1F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	WARNING FLAGS (ON SIGN)
C	WARNING LIGHT (TYPE C) (STEADY)

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 1

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

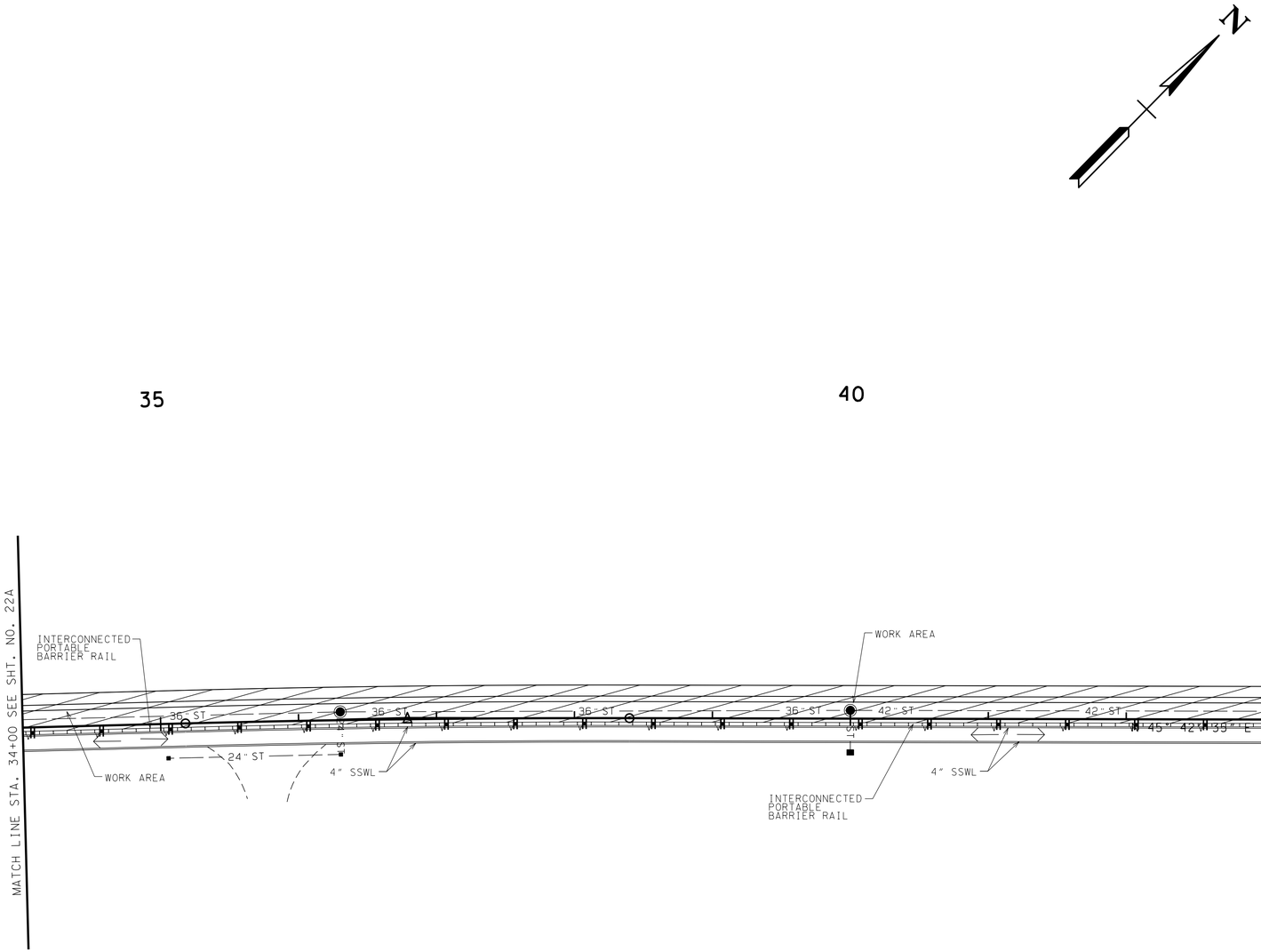
TRAFFIC CONTROL PLAN

STA. 34+00 TO STA. 47+00

SCALE: 1"=50'

18-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\023.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	23A



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH SINGLE VERTICAL PANELS)
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	WARNING FLAGS (ON SIGN)
	TEMPORARY BARRICADE (TYPE III)
C	WARNING LIGHT (TYPE C) (STEADY)

PHASE 2

1. IT IS ANTICIPATED THAT PHASE 2 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 2A.
   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 2B.
   C. WORK BETWEEN STA. 43+50+/- TO STA. 43+50+/- SUBPHASE 2C.
   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 2D.
   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 2E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 2F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 2

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

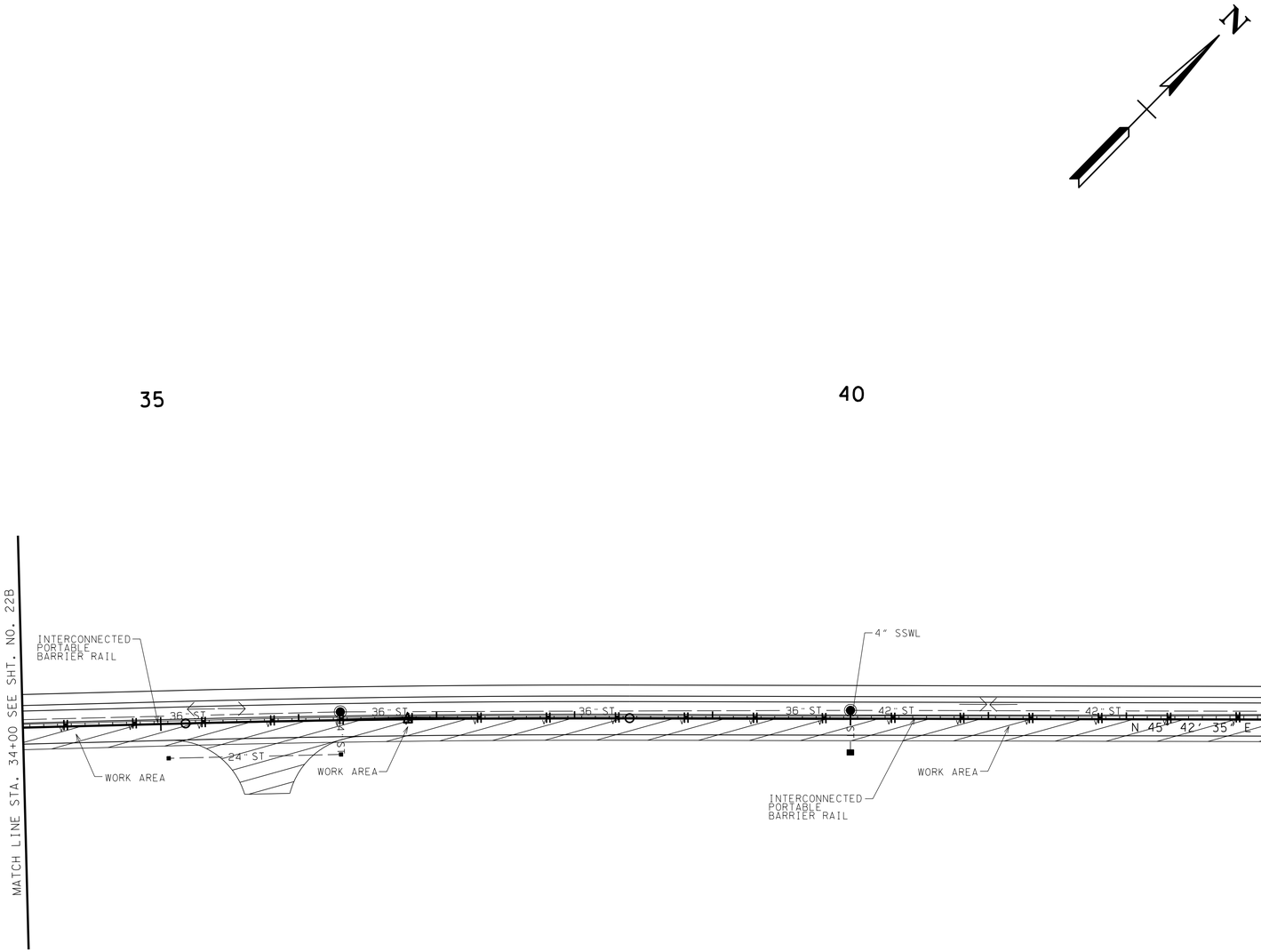
TRAFFIC CONTROL PLAN

STA. 34+00 TO STA. 47+00

SCALE: 1"=50'

28-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\023A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	23B



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	WARNING FLAGS (ON SIGN)
	TEMPORARY BARRICADE (TYPE III)
C	WARNING LIGHT (TYPE C) (STEADY)

PHASE 3

1. IT IS ANTICIPATED THAT PHASE 3 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 3A.
   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 3B.
   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 3C.
   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 3D.
   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 3E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 3F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 3

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

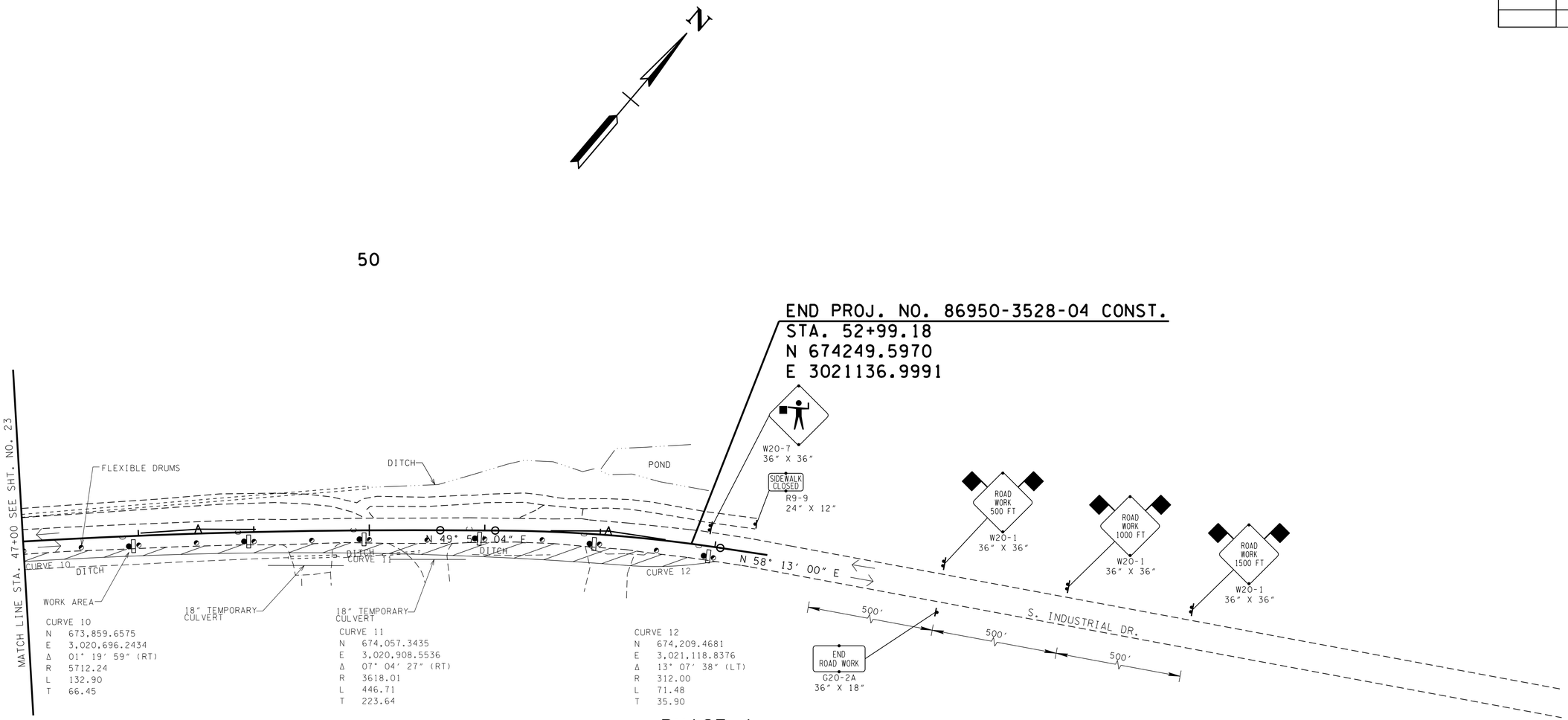
TRAFFIC CONTROL PLAN

STA. 34+00 TO STA. 47+00

SCALE: 1"=50'

18-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\023B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	24



PHASE 1

1. IT IS ANTICIPATED THAT PHASE 1 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 1A.
      1. INSTALL TEMP. DRAINAGE PIPES BENEATH PVT. DR. 49+50.68 AND STA. 50+59.11.
      2. EXTEND EXIST. CROSS DRAIN AT STA. 46+86+/-.

   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 1B.
      1. EXTEND EXIST. SIDE DRAIN BENEATH PVT. DR. AT STA. 45+60.31.
      2. INSTALL TEMP. DRAINAGE PIPE BENEATH PVT. DR. AT STA. 44+75.18.
      3. EXTEND EXIST. CROSS DRAIN AT STA. 44+63+/-.

   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 1C.
      1. INSTALL TEMP. DRAINAGE PIPE BENEATH PVT. DR. AT STA. 35+76.12.

   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 1D.
      1. EXTEND EXIST. CROSS DRAIN AT STA. 28+76+/-.
      2. INSTALL PERM. DRAINAGE DITCH FROM STA. 22+14+/- TO STA. 22+66+/-, STA. 23+70+/- TO STA. 28+68+/- AND STA. 29+32+/- TO STA. 29+94+/-.
      3. INSTALL PERM. SIDE DRAIN BENEATH PVT. DR. AT STA. 23+07.92.

   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 1E.

   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 1F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

UNOFFICIAL SET

NOT FOR BIDDING

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	WARNING FLAGS (ON SIGN)
C	WARNING LIGHT (TYPE C) (STEADY)

PHASE 1

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

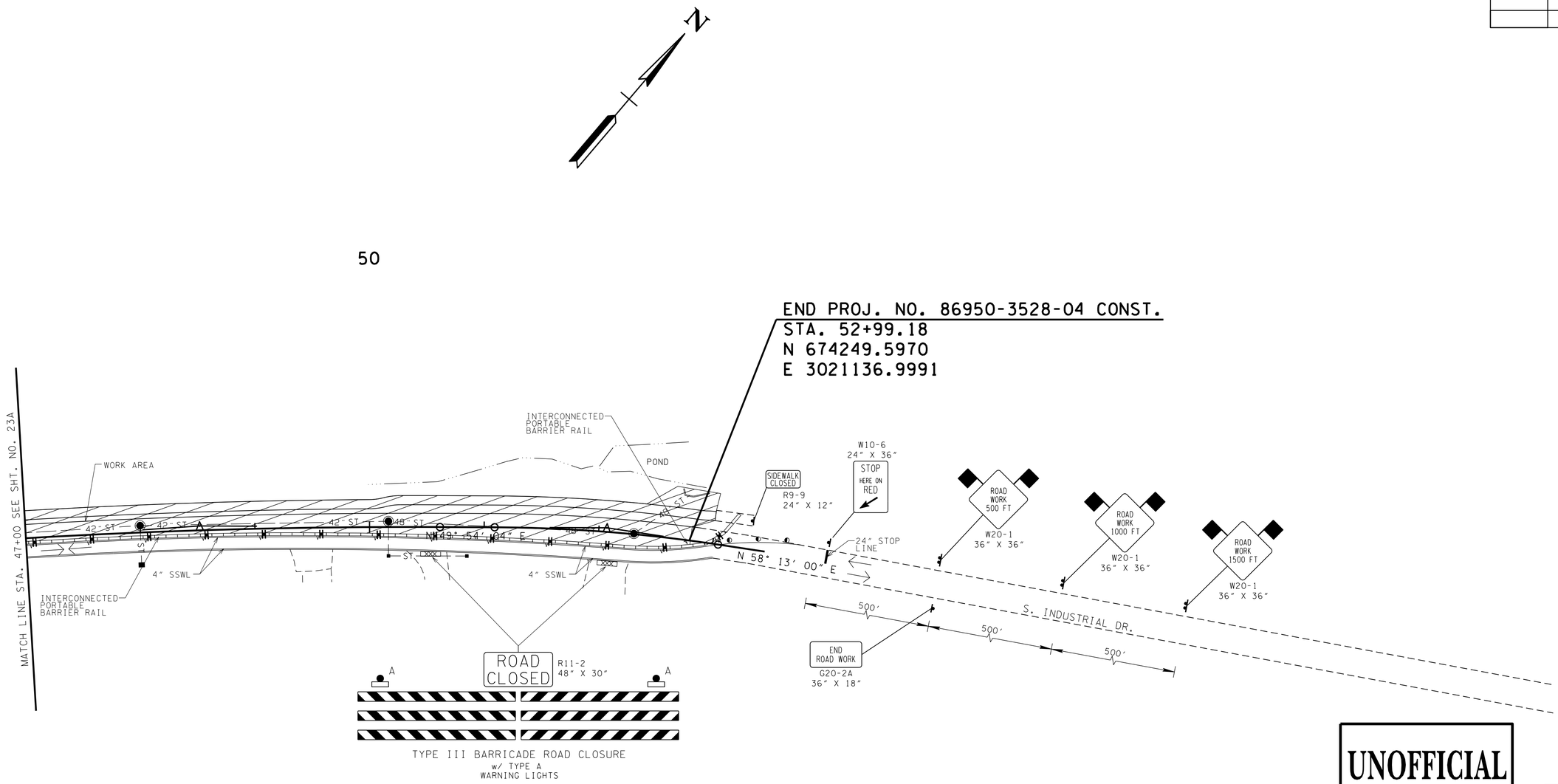
TRAFFIC CONTROL PLAN

STA. 47+00 TO END PROJ.

SCALE: 1"=50'

18-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\024.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	24A



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH SINGLE VERTICAL PANELS)
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	WARNING FLAGS (ON SIGN)
	TEMPORARY BARRICADE (TYPE III)
C	WARNING LIGHT (TYPE C) (STEADY)

PHASE 2

1. IT IS ANTICIPATED THAT PHASE 2 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 2A.
   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 2B.
   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 2C.
   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 2D.
   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 2E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 2F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 2

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

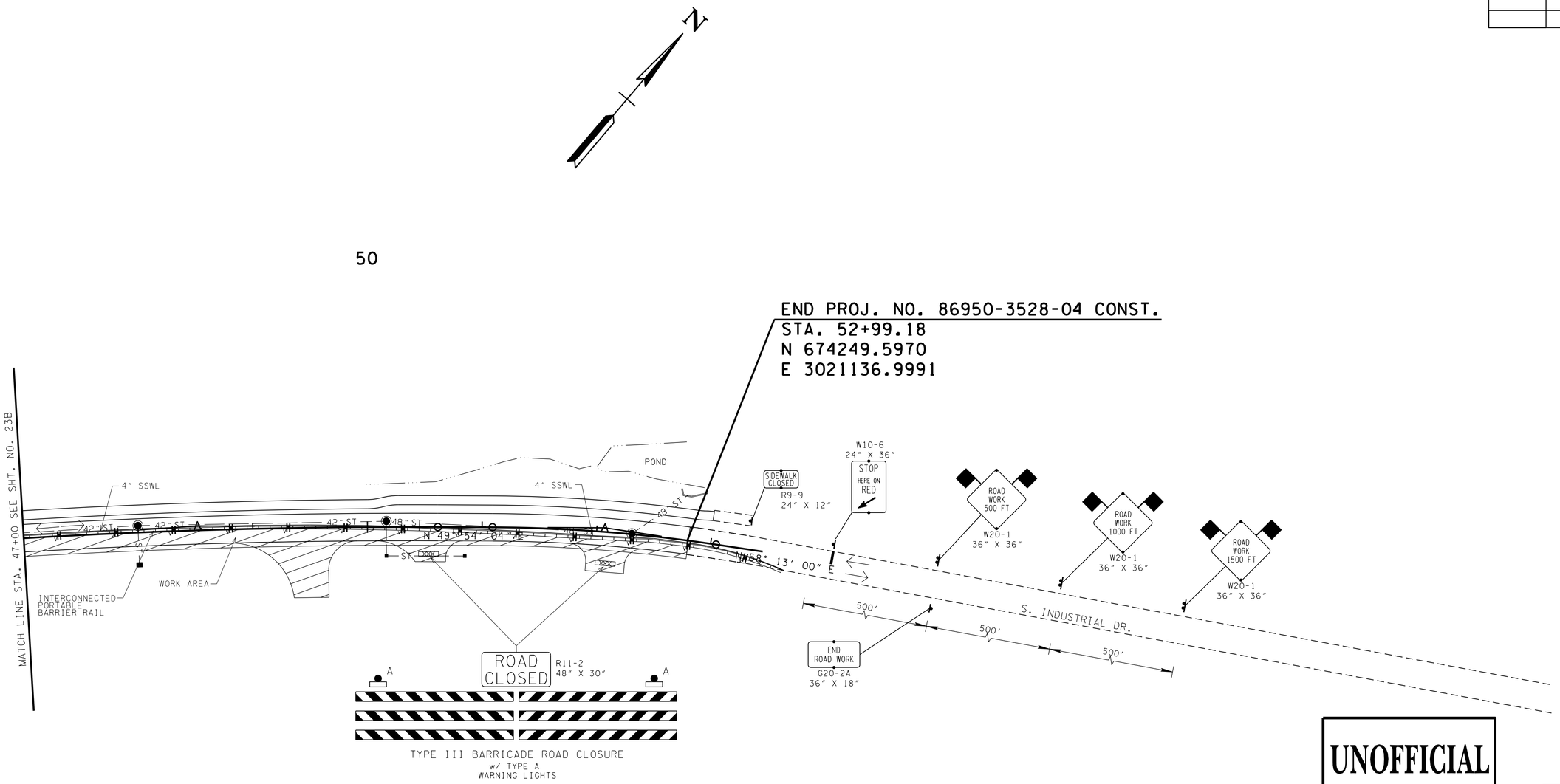
TRAFFIC CONTROL PLAN

STA. 47+00 TO END PROJ.

SCALE: 1"=50'

18-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\024A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	24B



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
	SIGN (CONSTRUCTION) (2-POST)
→	TRAFFIC FLOW
	PORTABLE BARRIER RAIL
	PORTABLE BARRIER RAIL (WITH DOUBLE VERTICAL PANELS)
	WARNING FLAGS (ON SIGN)
	TEMPORARY BARRICADE (TYPE III)
C	WARNING LIGHT (TYPE C) (STEADY)

UNOFFICIAL SET

NOT FOR BIDDING

PHASE 3

1. IT IS ANTICIPATED THAT PHASE 3 CONSTRUCTION WILL REQUIRE 6 SEPARATE SUBPHASES CONSISTING OF THE FOLLOWING:

   A. WORK BETWEEN STA. 48+00+/- TO STA. 53+50+/- SUBPHASE 3A.
   B. WORK BETWEEN STA. 43+50+/- TO STA. 48+00+/- SUBPHASE 3B.
   C. WORK BETWEEN STA. 34+50+/- TO STA. 43+50+/- SUBPHASE 3C.
   D. WORK BETWEEN STA. 22+00+/- TO STA. 34+50+/- SUBPHASE 3D.
   E. WORK BETWEEN STA. 19+00+/- TO STA. 22+00+/- SUBPHASE 3E.
   F. WORK BETWEEN STA. 10+06+/- TO STA. 19+00+/- SUBPHASE 3F.

2. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE DESIGNATED.

PHASE 3

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

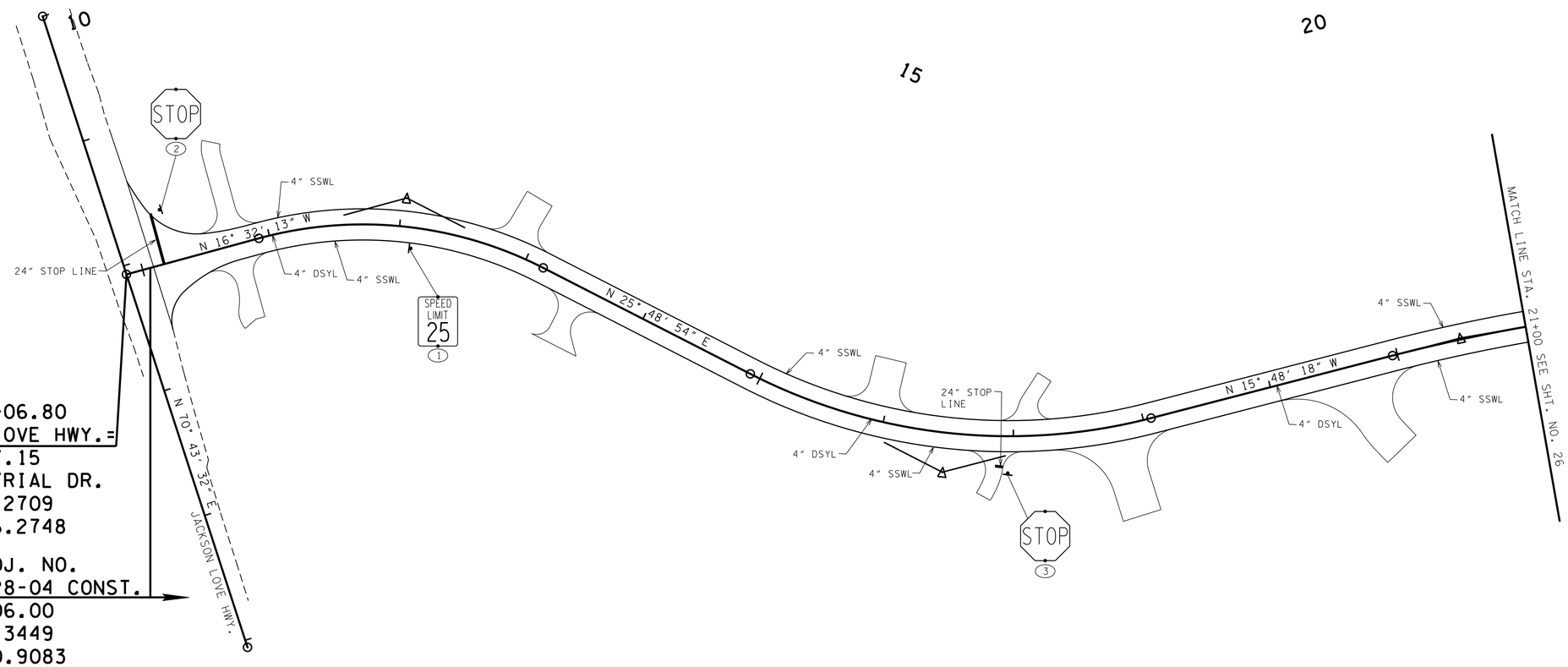
TRAFFIC CONTROL PLAN

STA. 47+00 TO END PROJ.

SCALE: 1"=50'

28-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\024B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	25



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

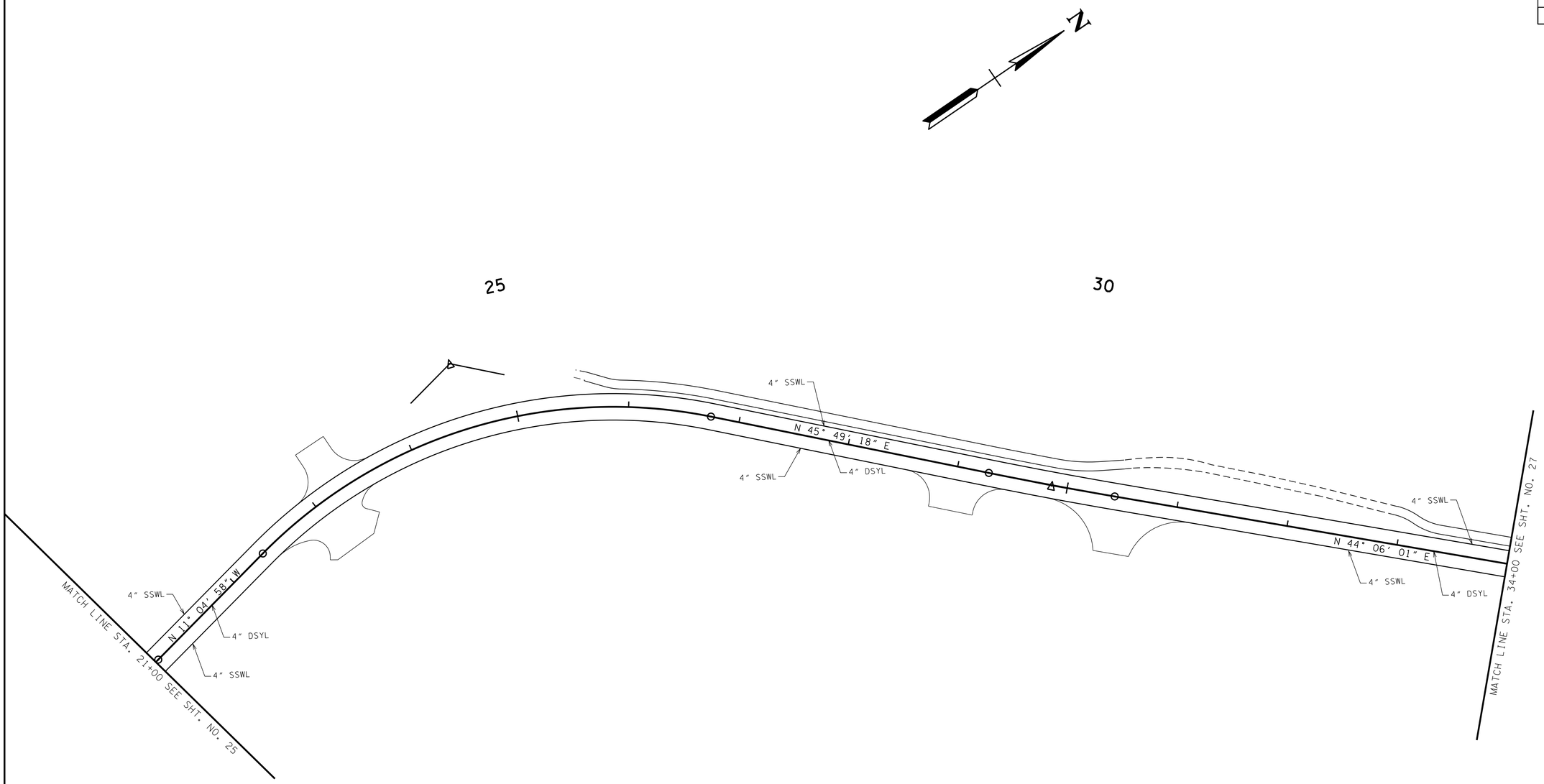
SIGNING AND PAVEMENT MARKING PLAN

BEG. PROJ. TO STA. 21+00

SCALE: 1"= 50'

18-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\0127O3C - Erwin S Ind Drive\Drawings\Construction\025.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	26



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

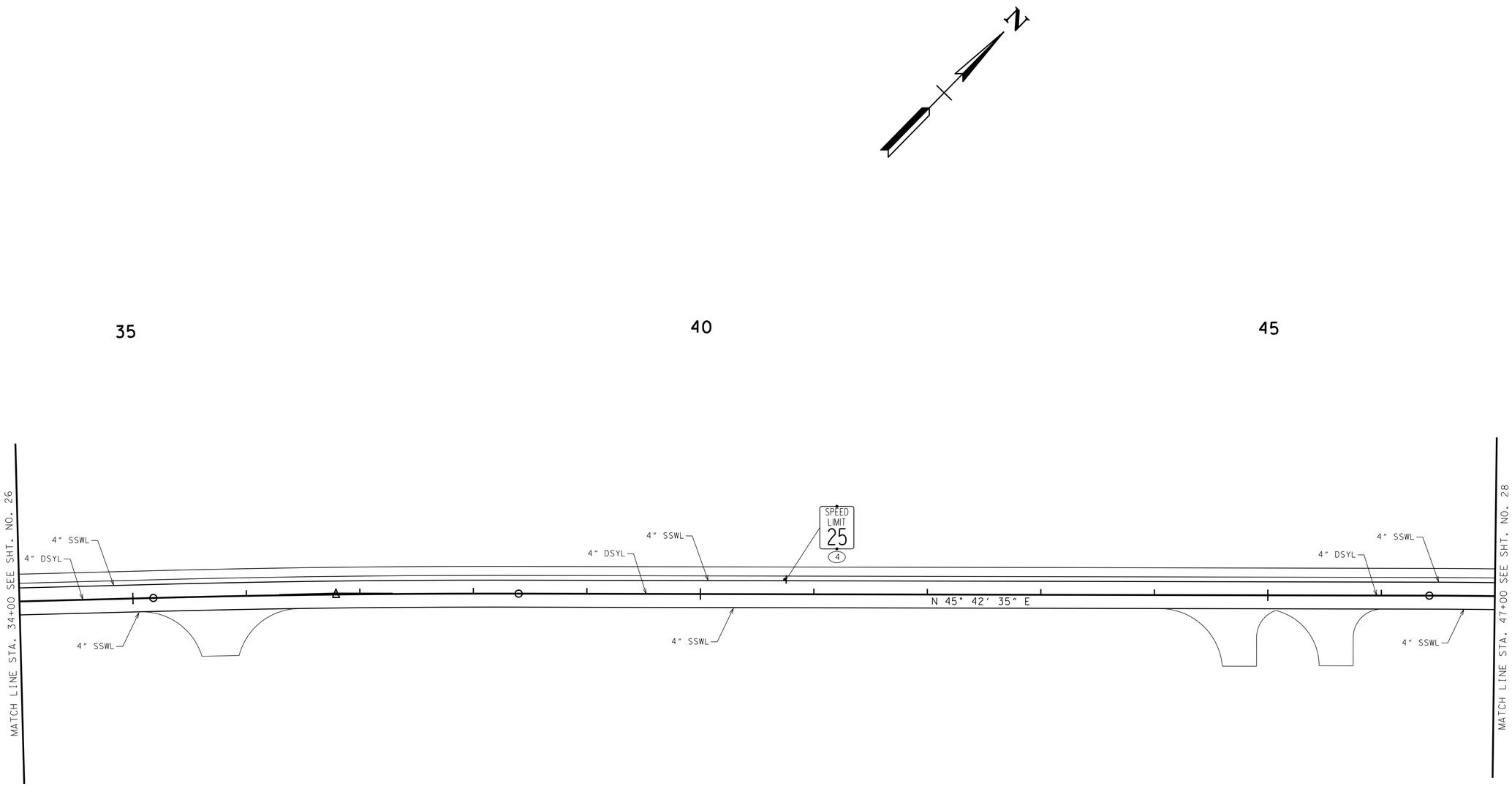
SIGNING AND PAVEMENT MARKING PLAN

STA. 21+00 TO STA. 34+00

SCALE: 1"= 50'

8-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\026.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	27



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

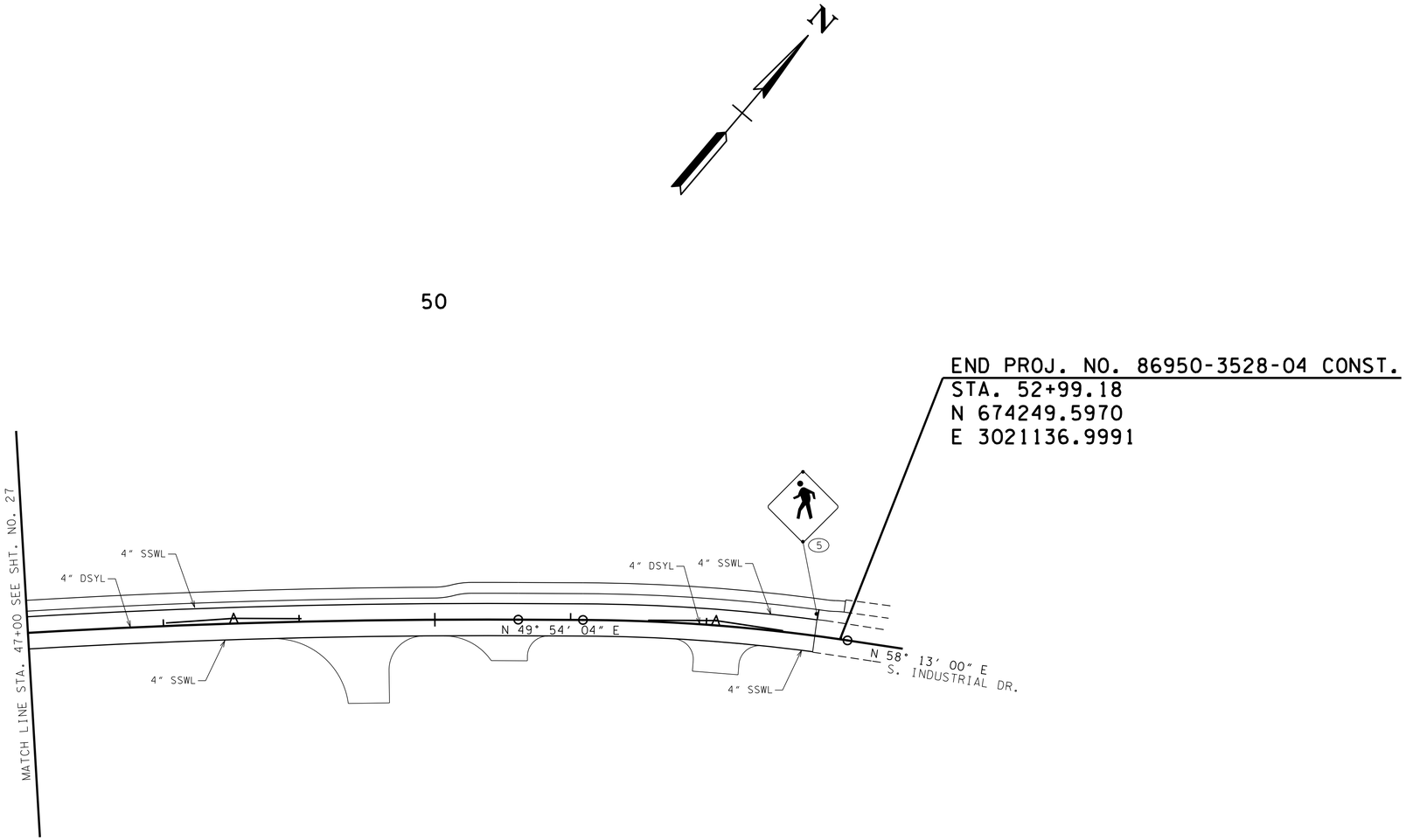
SIGNING AND PAVEMENT MARKING PLAN

STA. 34+00 TO STA. 47+00

SCALE: 1"= 50'

8-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\027.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	28



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE JOHNSON CITY GNSS REFERENCE NETWORK AND ARE NOT DATUM ADJUSTED STATE PLANE COORDINATES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN

STA. 47+00 TO END PROJ.

SCALE: 1"= 50'

18-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\028.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	29
.	.	.	.
.	.	.	.
.	.	.	.

ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
1	R2-1	25	24"	30"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	U6	h = 11'-0"				5'-0"	
4		27															h = 13'-0"				7'-0"	
2	R1-1	25	30"	30"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	U6	h = 11'-0"				5'-0"	
3		25															h = 11'-0"				5'-0"	
5	W11-2	28	30"	30"									BLACK	YELLOW (REF.)	0.080" SHEET ALUMINUM	U6	h = 13'-0"				7'-0"	

UNOFFICIAL SET

NOT FOR BIDDING

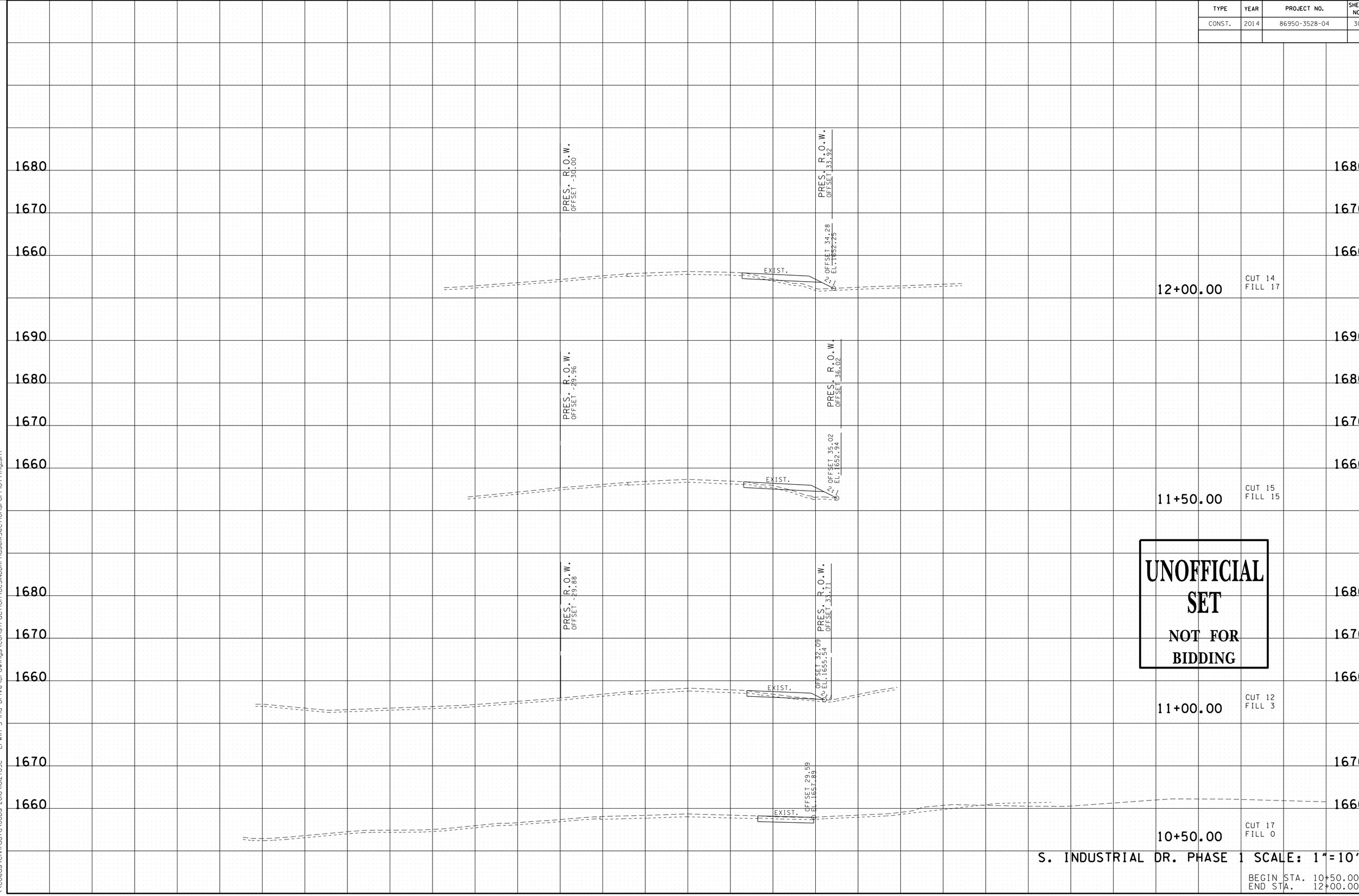
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

18-MAR-2014 13:20
\\thp-ap\civildata\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\029.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	30



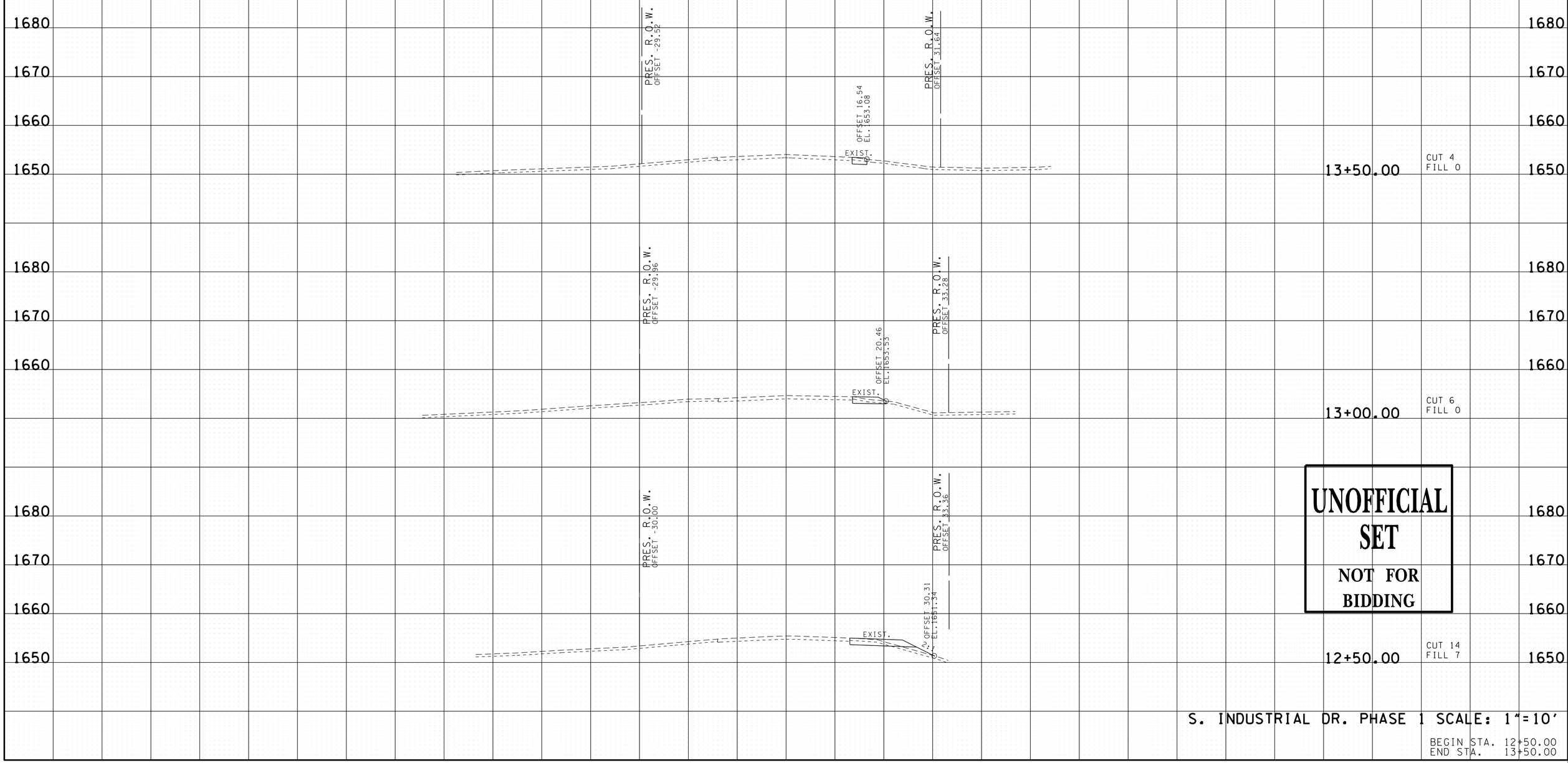
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 10+50.00
END STA. 12+00.00

18-MAR-2014 13:20
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	31



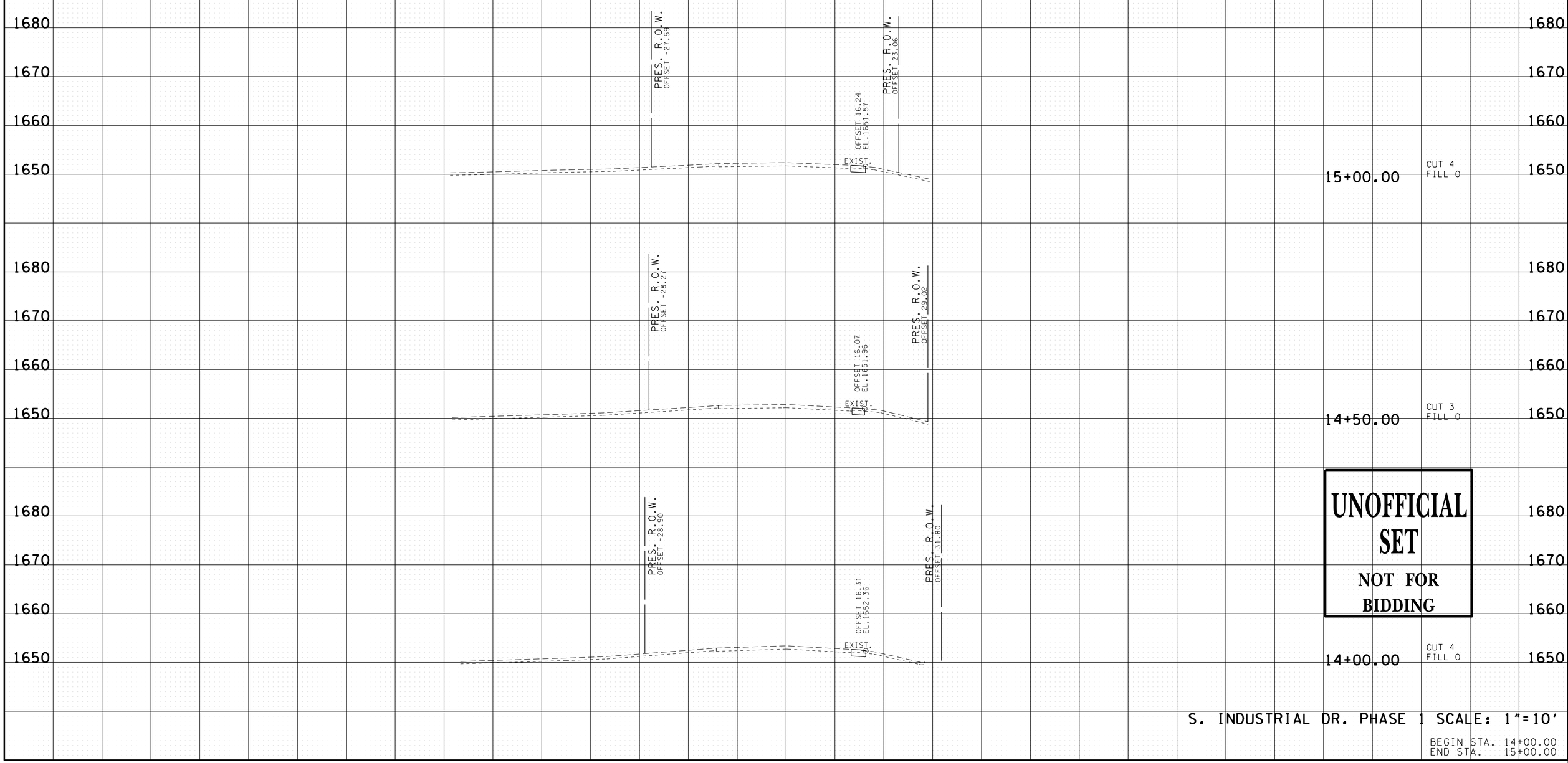
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 12+50.00
END STA. 13+50.00

18-MAR-2014 13:20
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhaseIXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	32



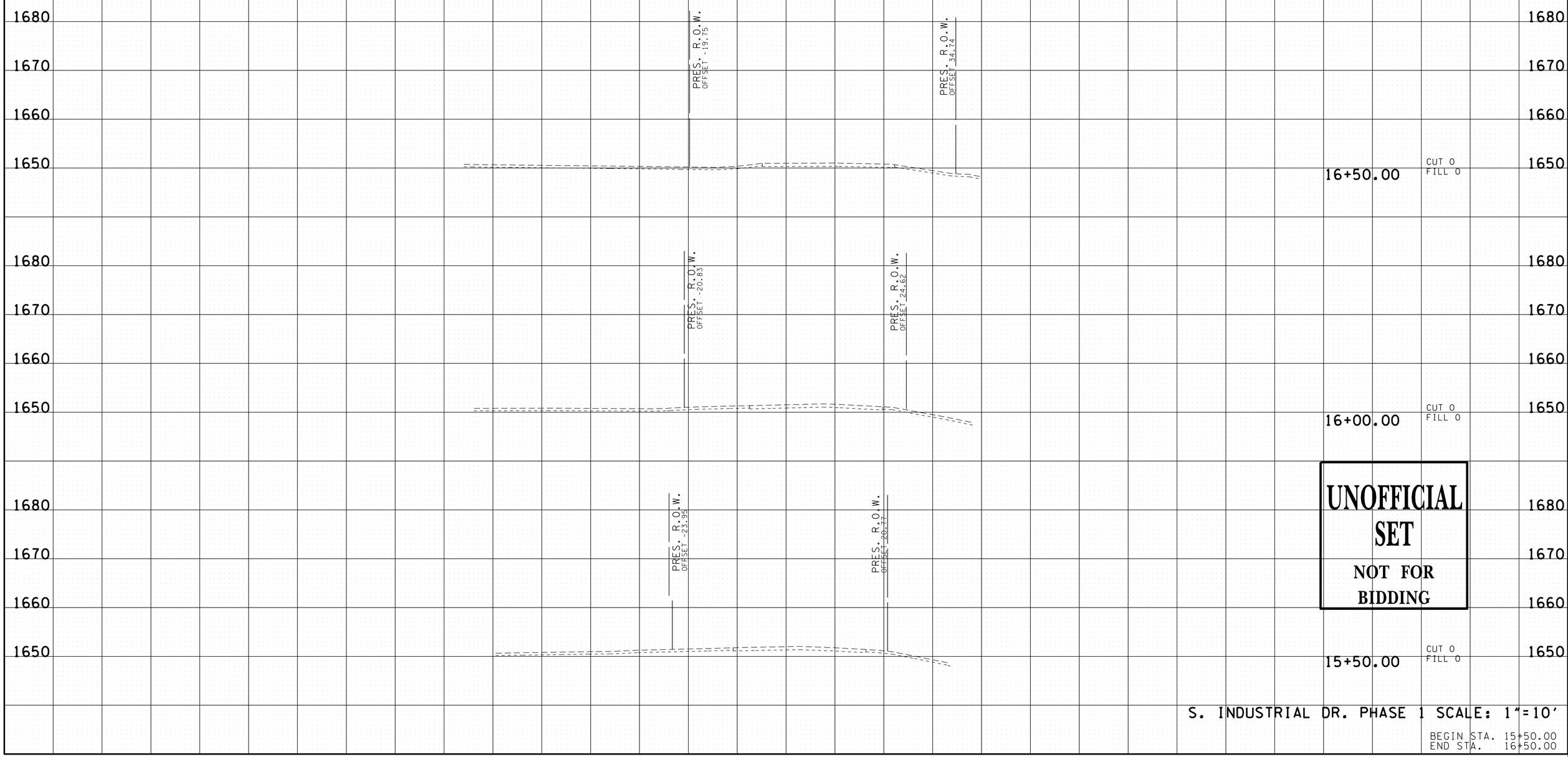
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 14+00.00
END STA. 15+00.00

18-MAR-2014 13:20
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	33



UNOFFICIAL SET

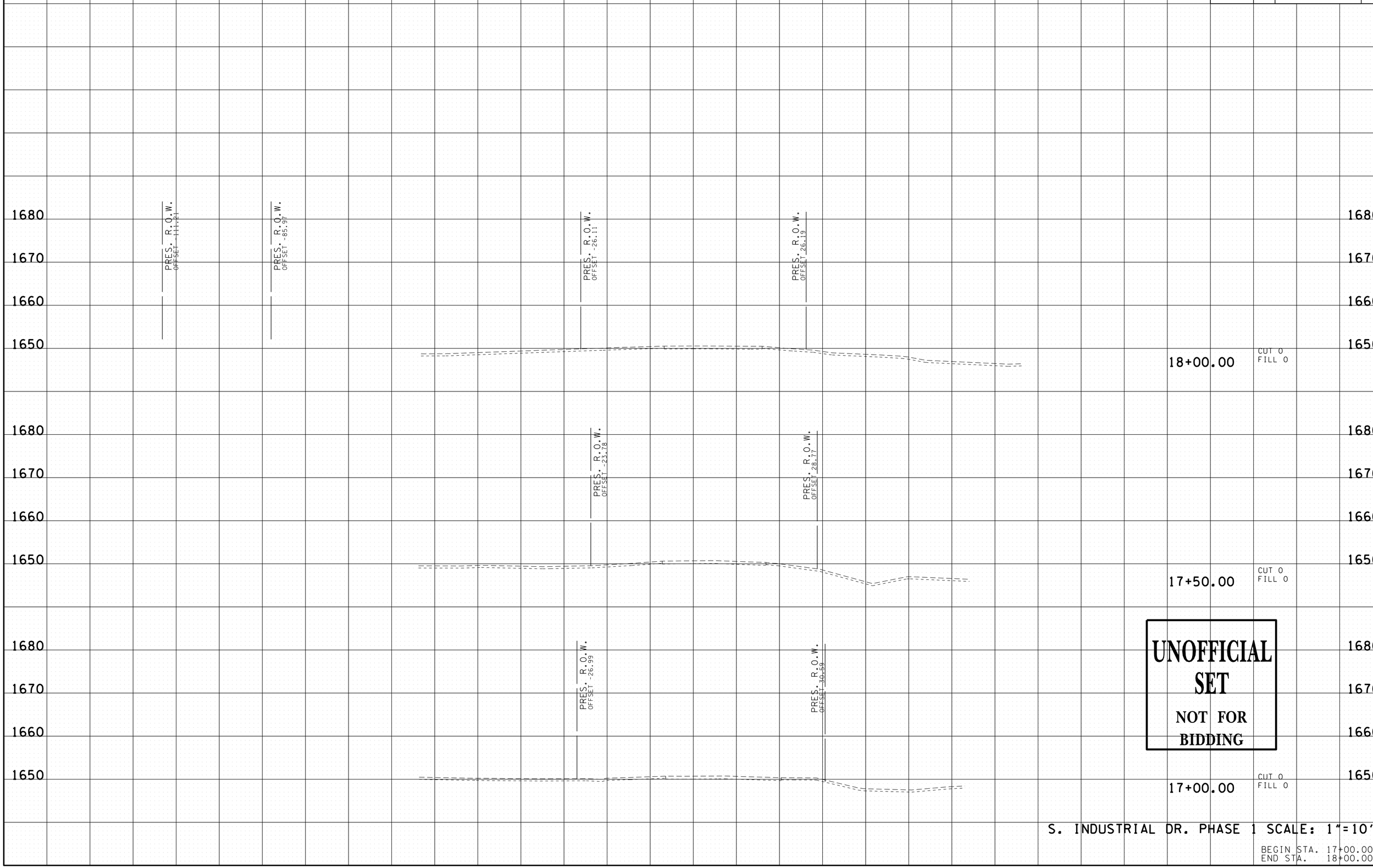
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 15+50.00
END STA. 16+50.00

18-MAR-2014 13:20
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	34



UNOFFICIAL SET

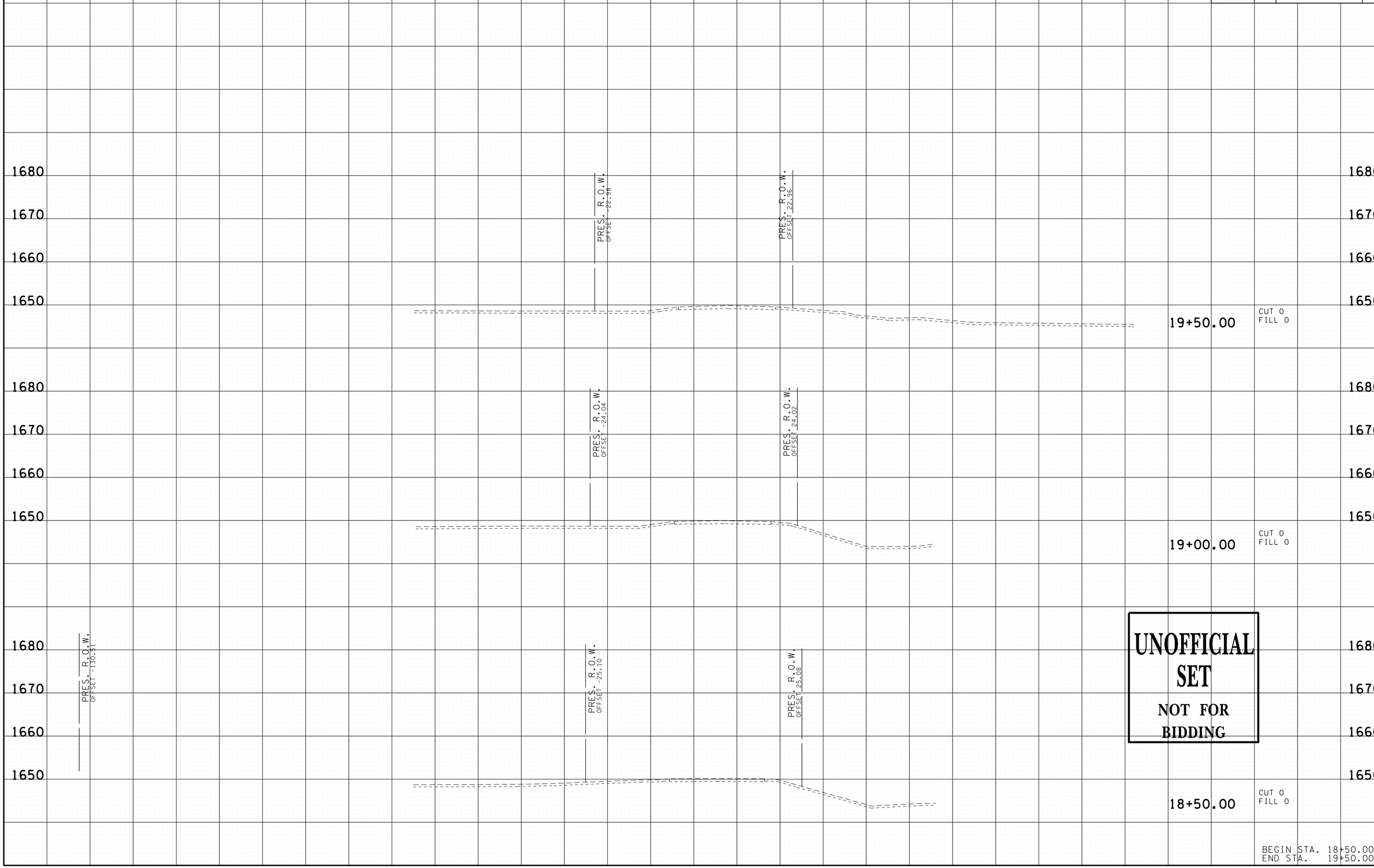
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 17+00.00
END STA. 18+00.00

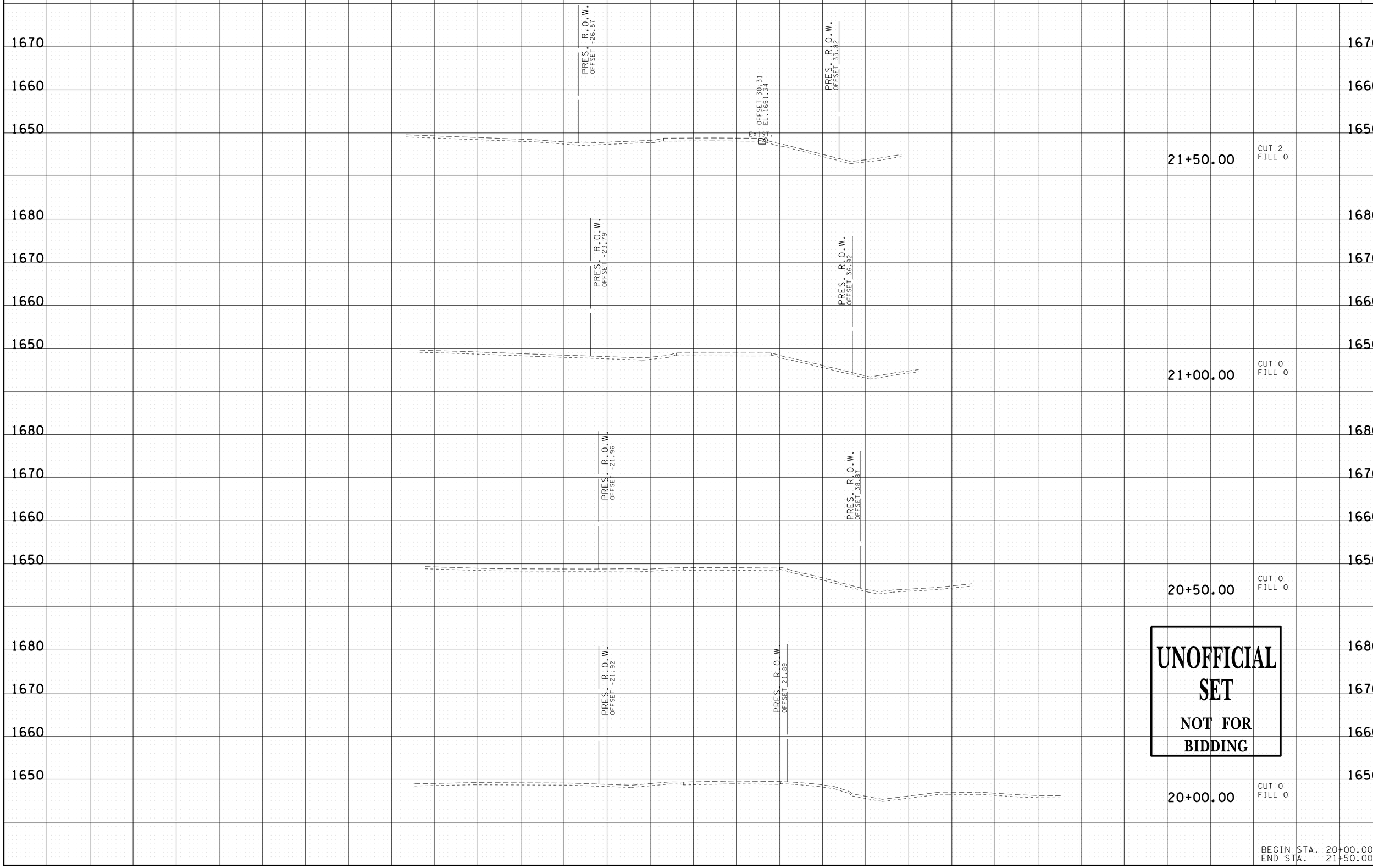
18-MAR-2014 13:21
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	35



18-MAR-2014 13:21
\\coeus\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhaseIXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	36

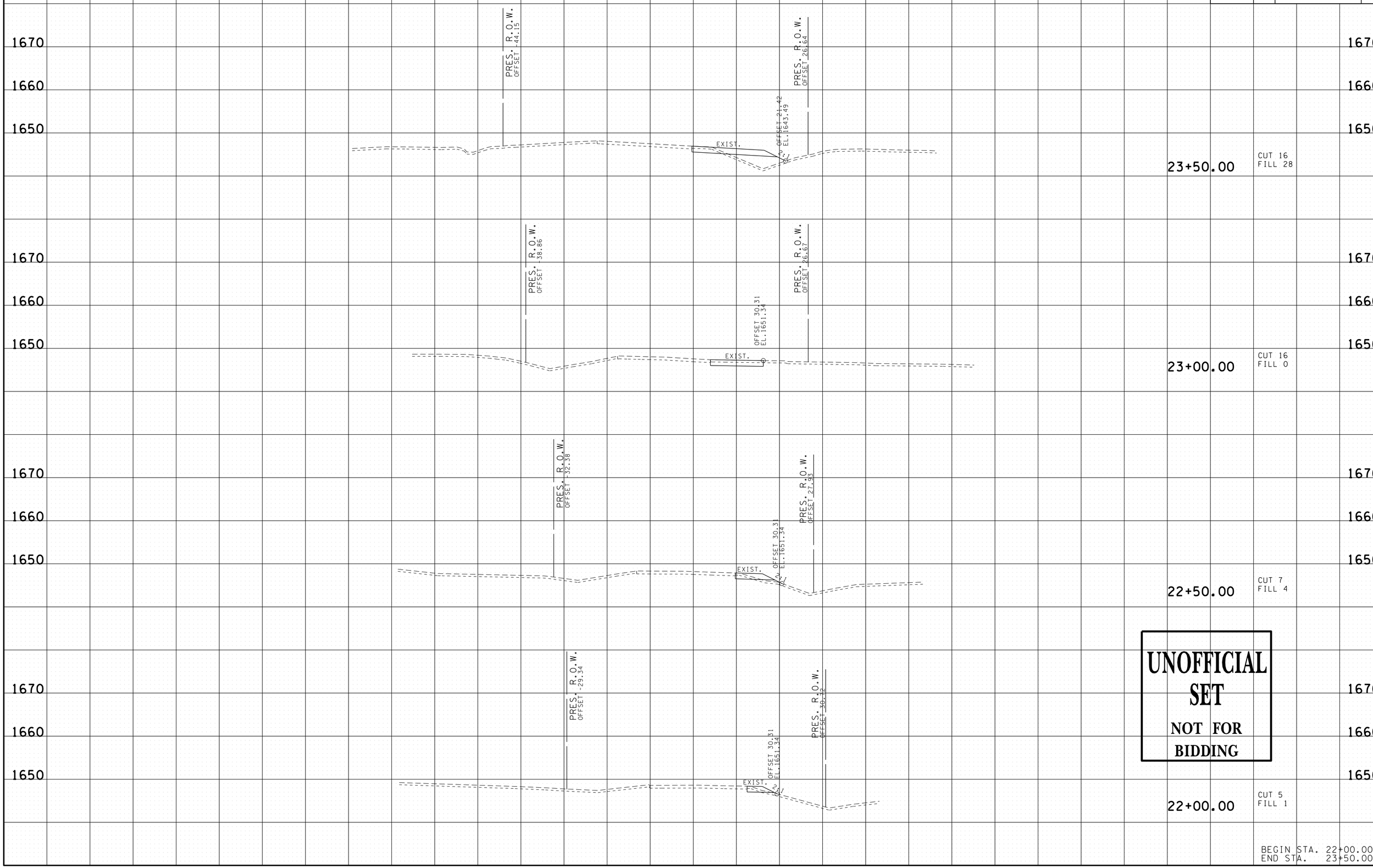


UNOFFICIAL SET
NOT FOR BIDDING

BEGIN STA. 20+00.00
END STA. 21+50.00

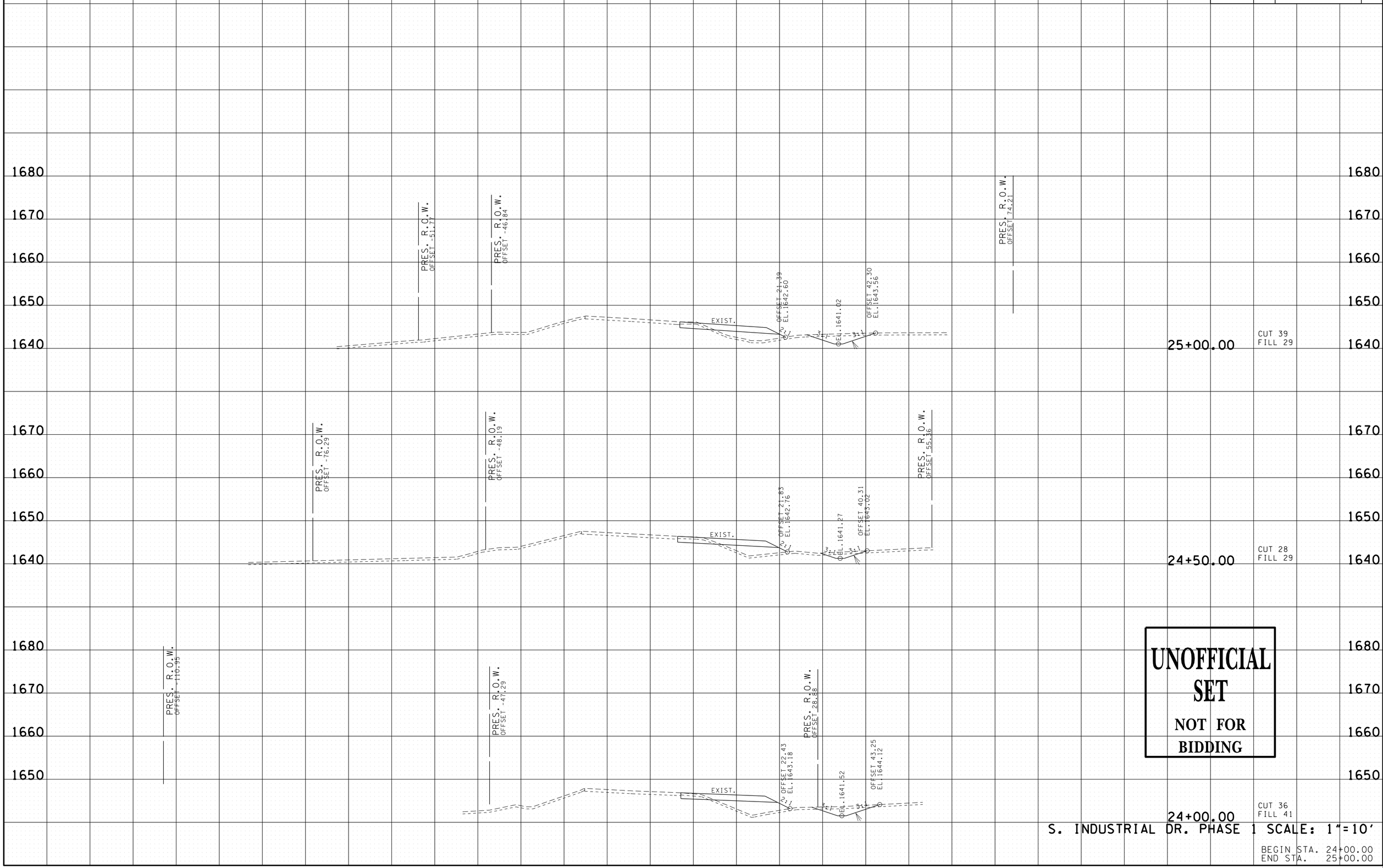
18-MAR-2014 13:21
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhaseIXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	37



18-MAR-2014 13:21
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	38



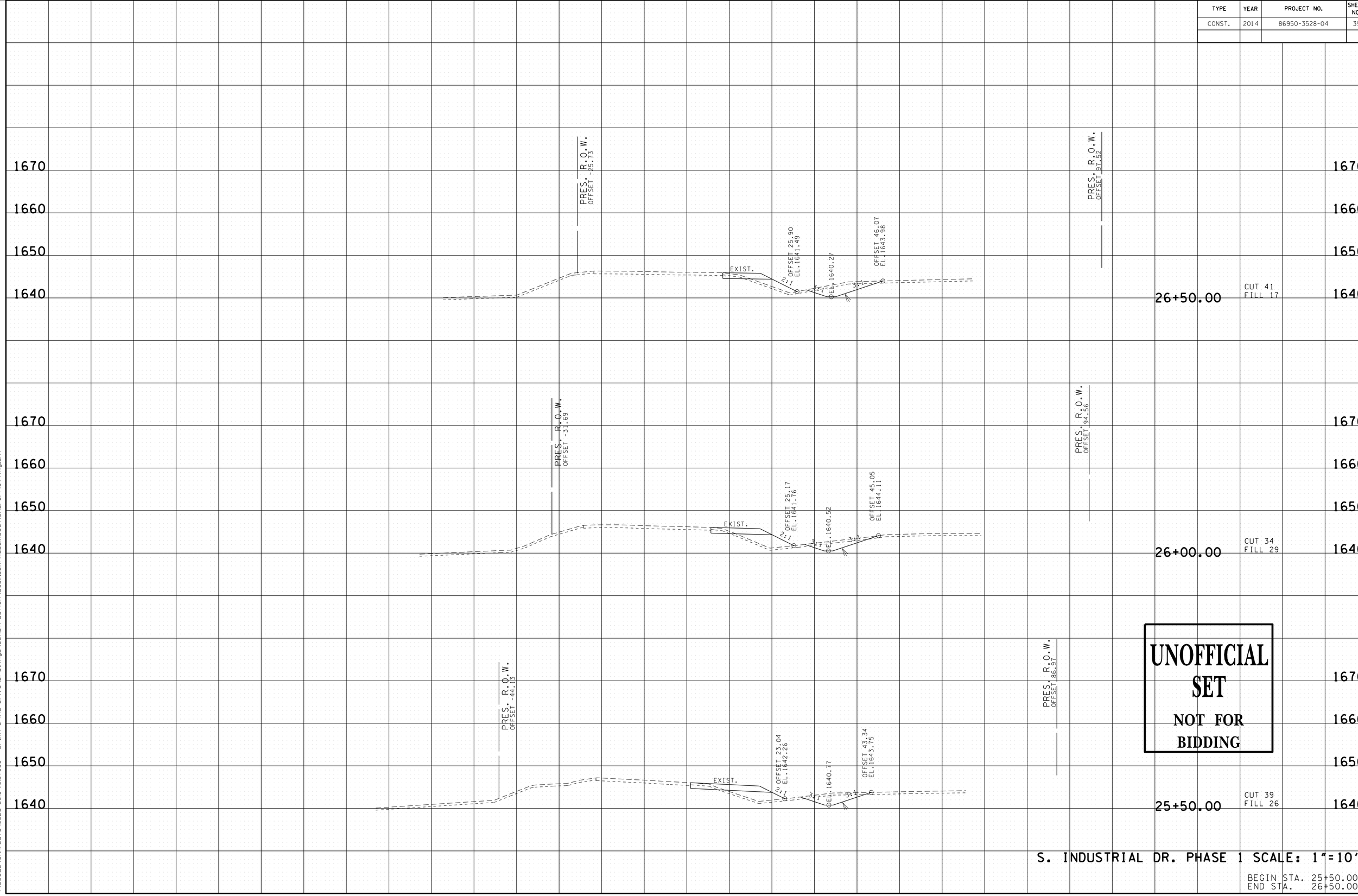
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 24+00.00
END STA. 25+00.00

18-MAR-2014 13:21
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	39



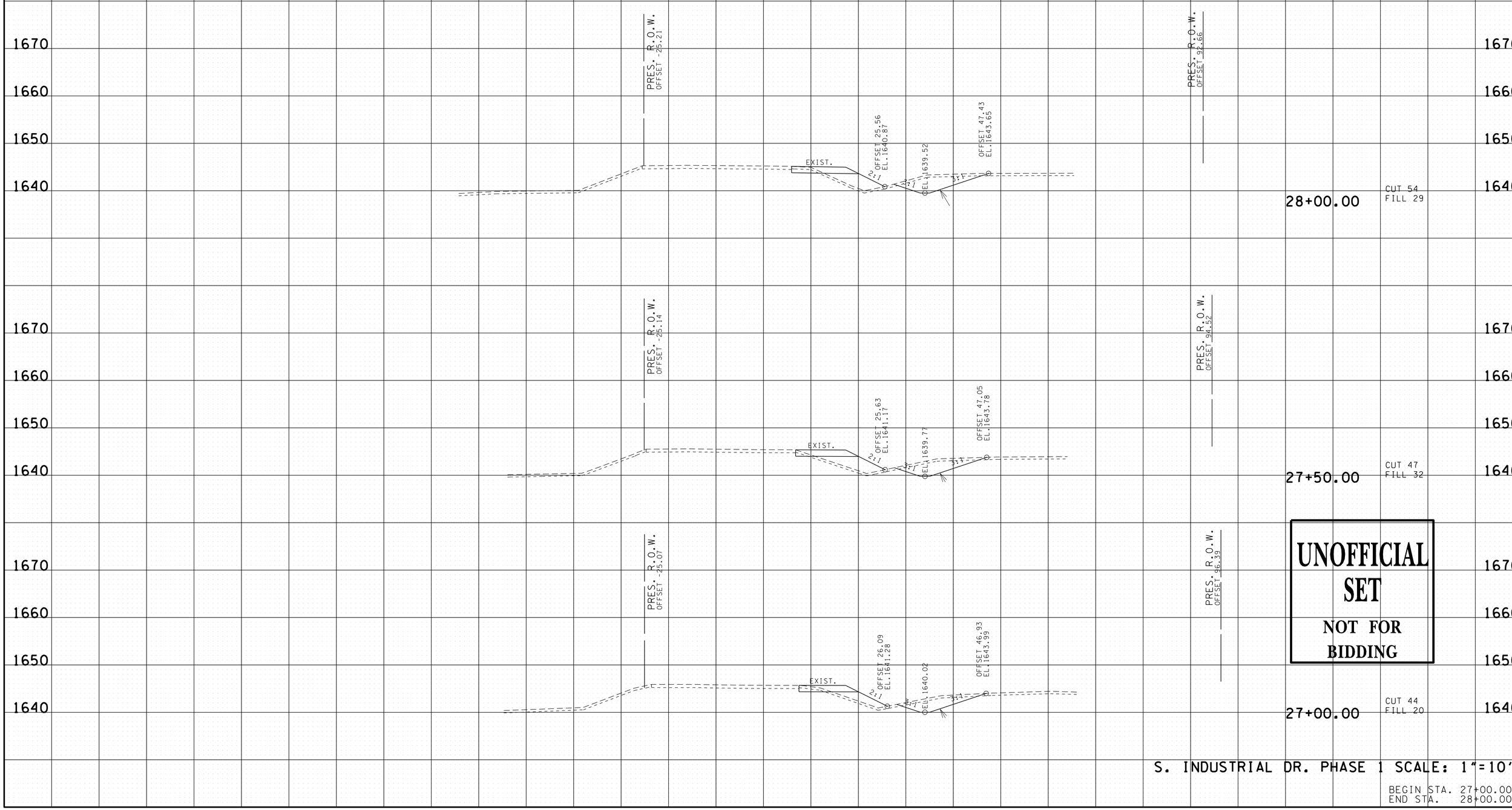
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 25+50.00
END STA. 26+50.00

18-MAR-2014 13:21
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhaseIXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	40



UNOFFICIAL SET

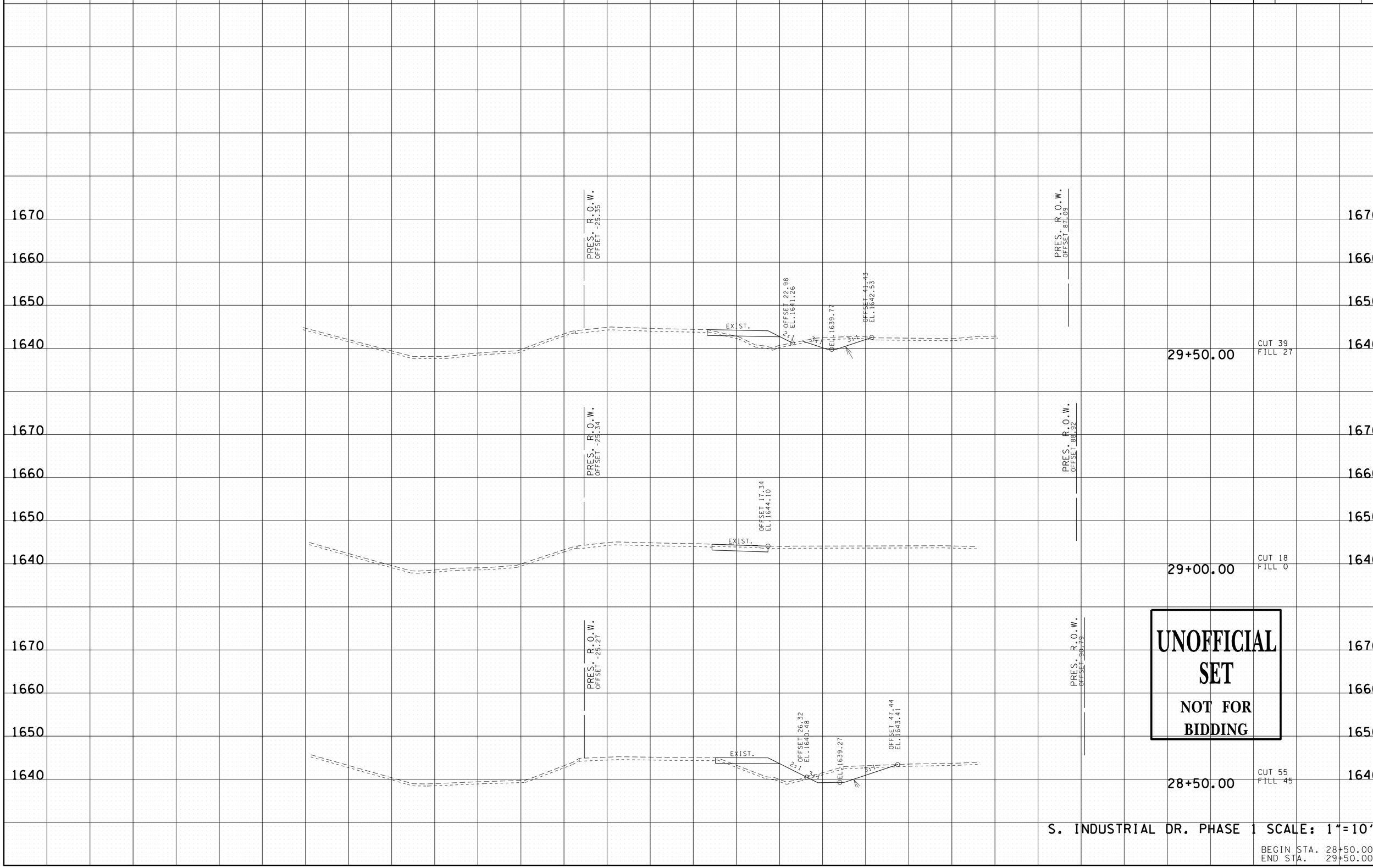
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 27+00.00
END STA. 28+00.00

18-MAR-2014 13:21
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	41



UNOFFICIAL SET

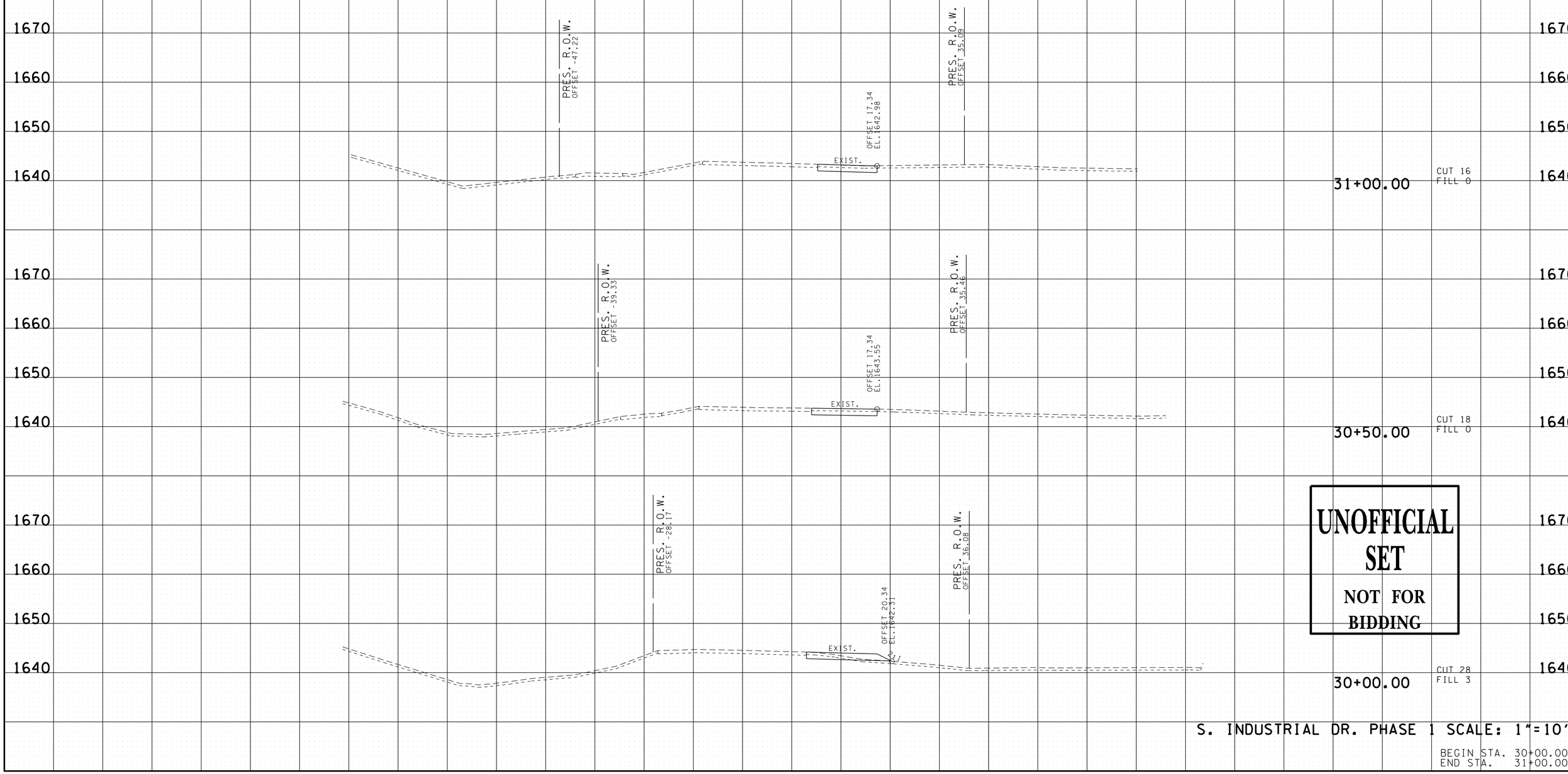
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 28+50.00
END STA. 29+50.00

18-MAR-2014 13:22
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	42



UNOFFICIAL SET

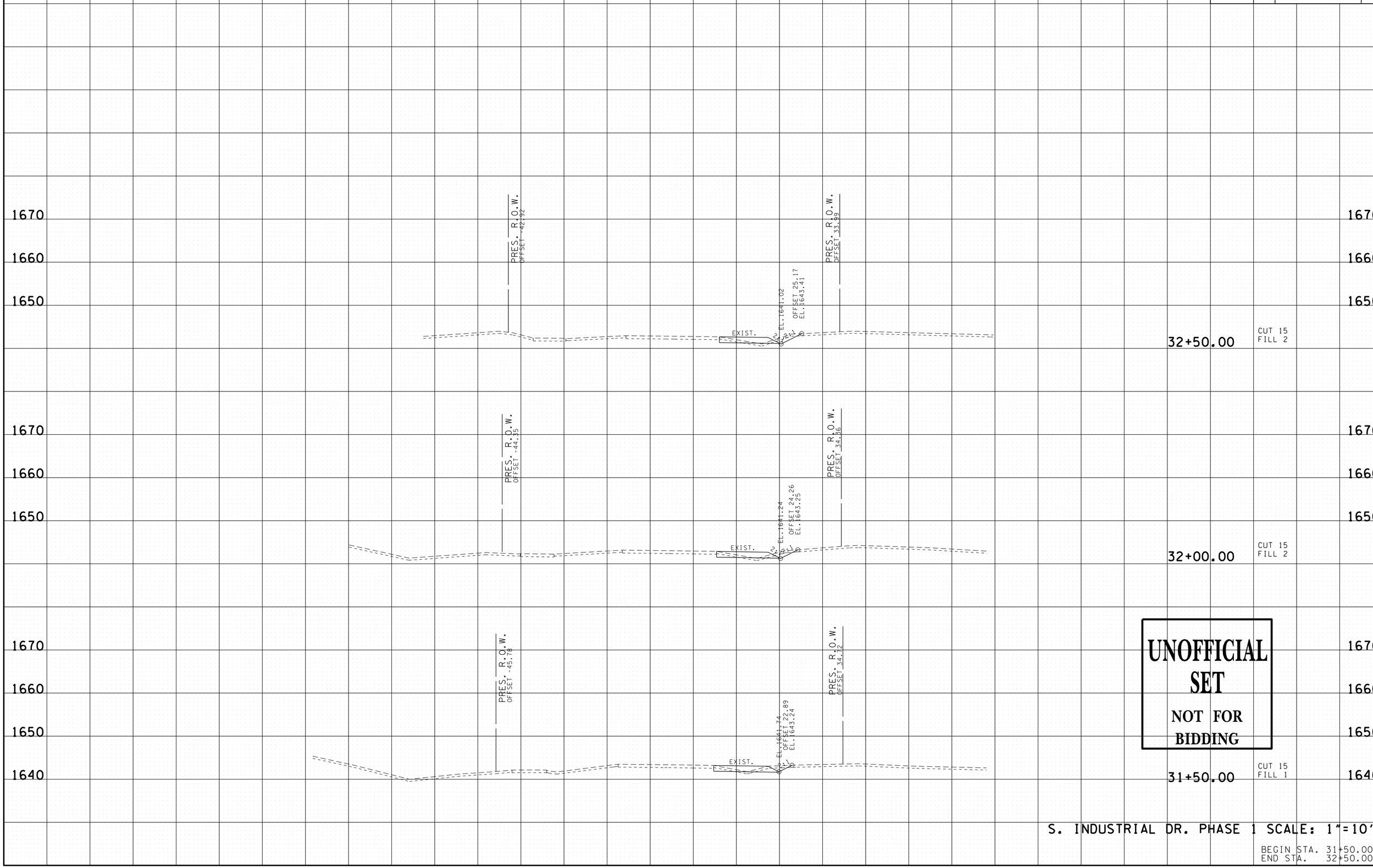
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 30+00.00
END STA. 31+00.00

18-MAR-2014 13:22
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	43



UNOFFICIAL SET

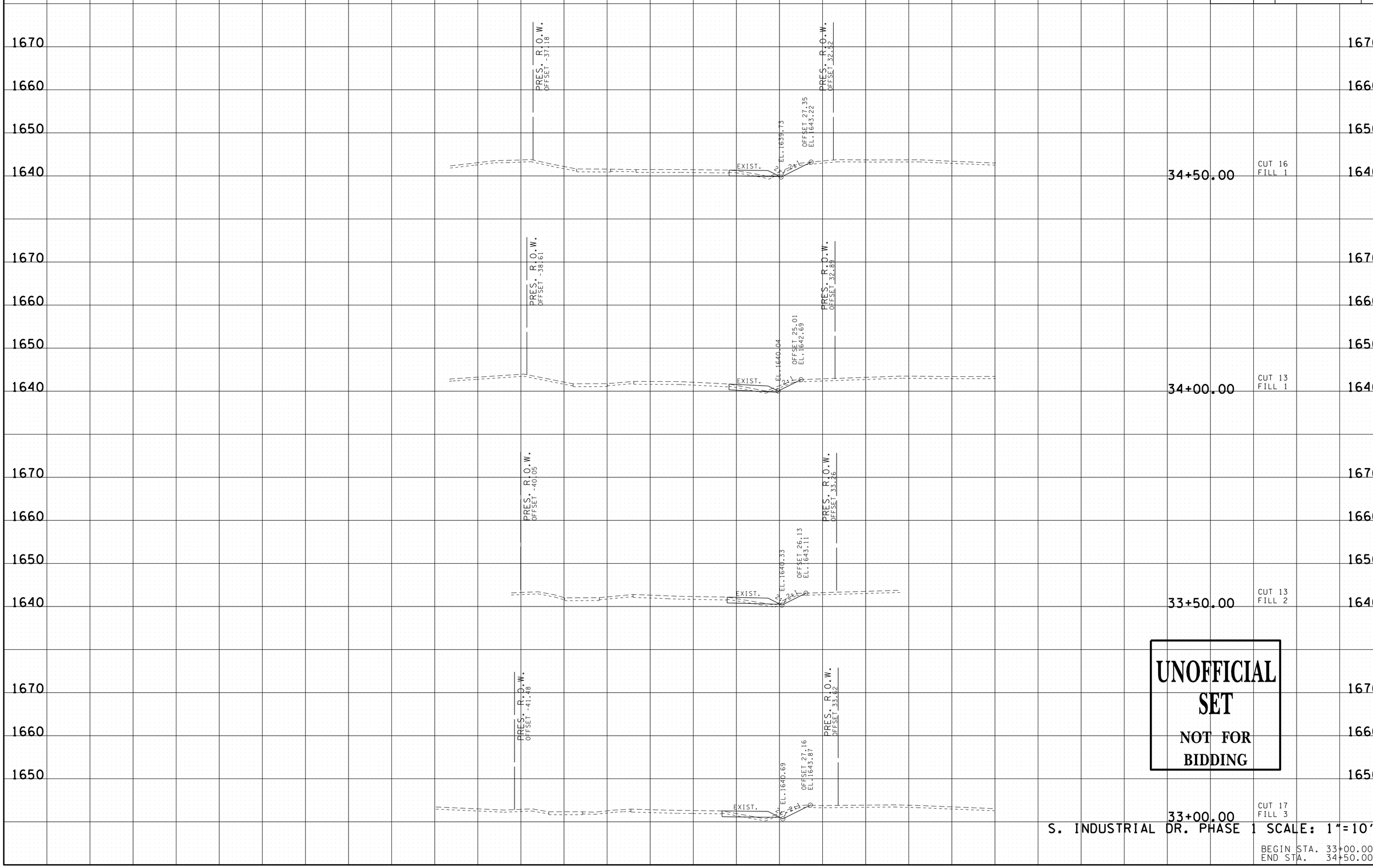
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 31+50.00
END STA. 32+50.00

18-MAR-2014 13:22
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	44



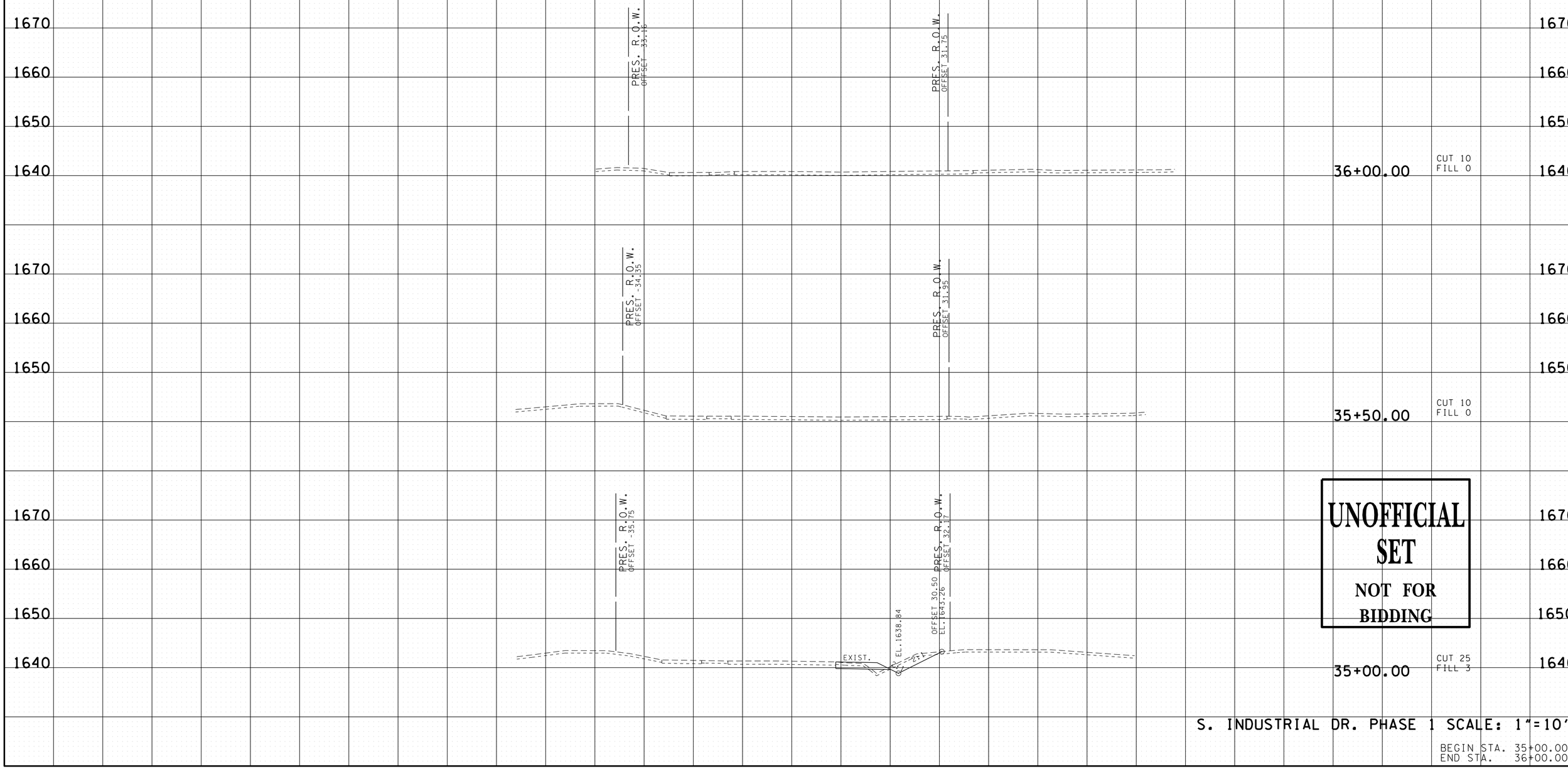
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 33+00.00
END STA. 34+50.00

18-MAR-2014 13:22
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhaseIXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	45



UNOFFICIAL SET

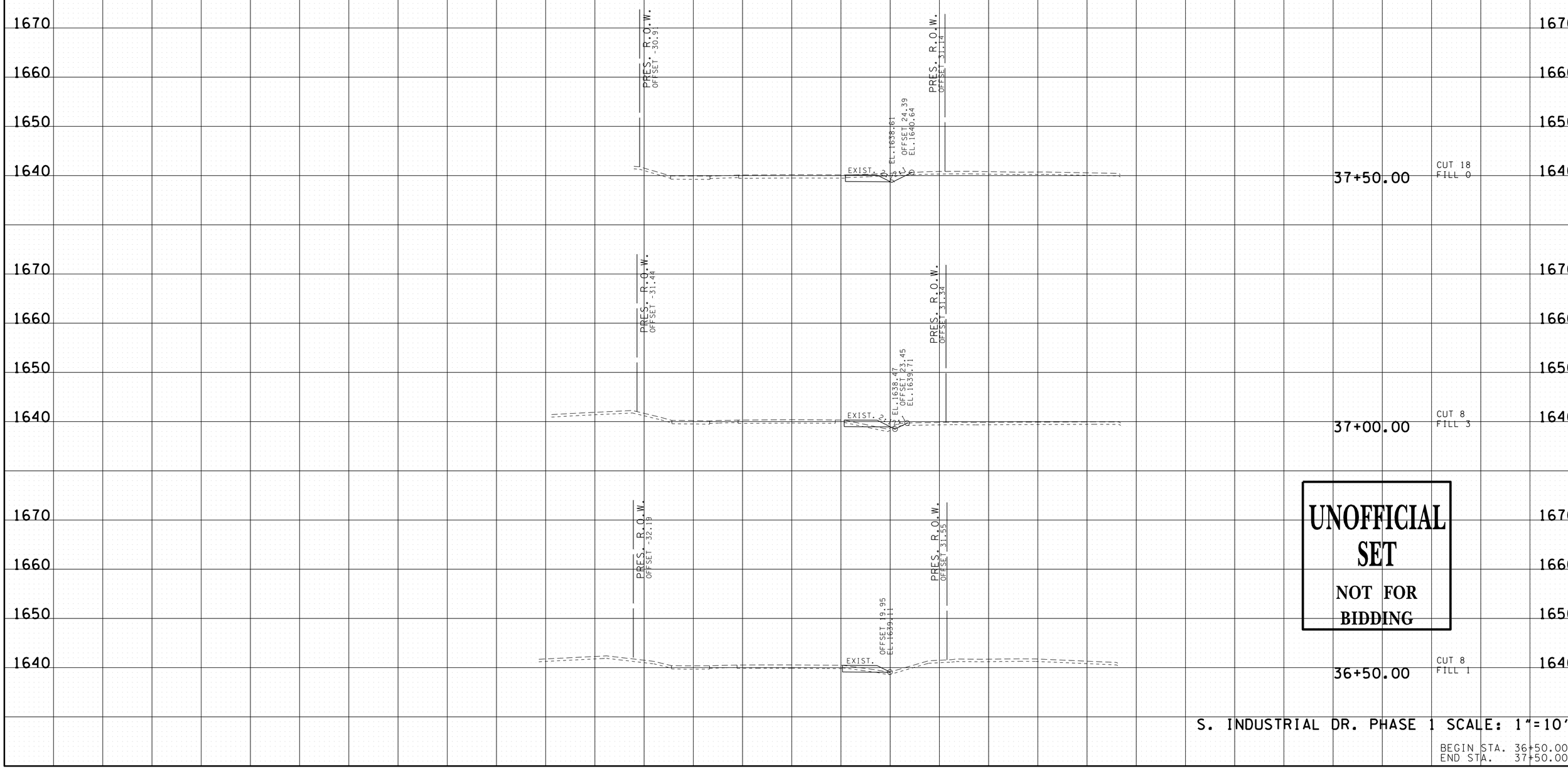
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 35+00.00
END STA. 36+00.00

18-MAR-2014 13:23
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	46



UNOFFICIAL SET

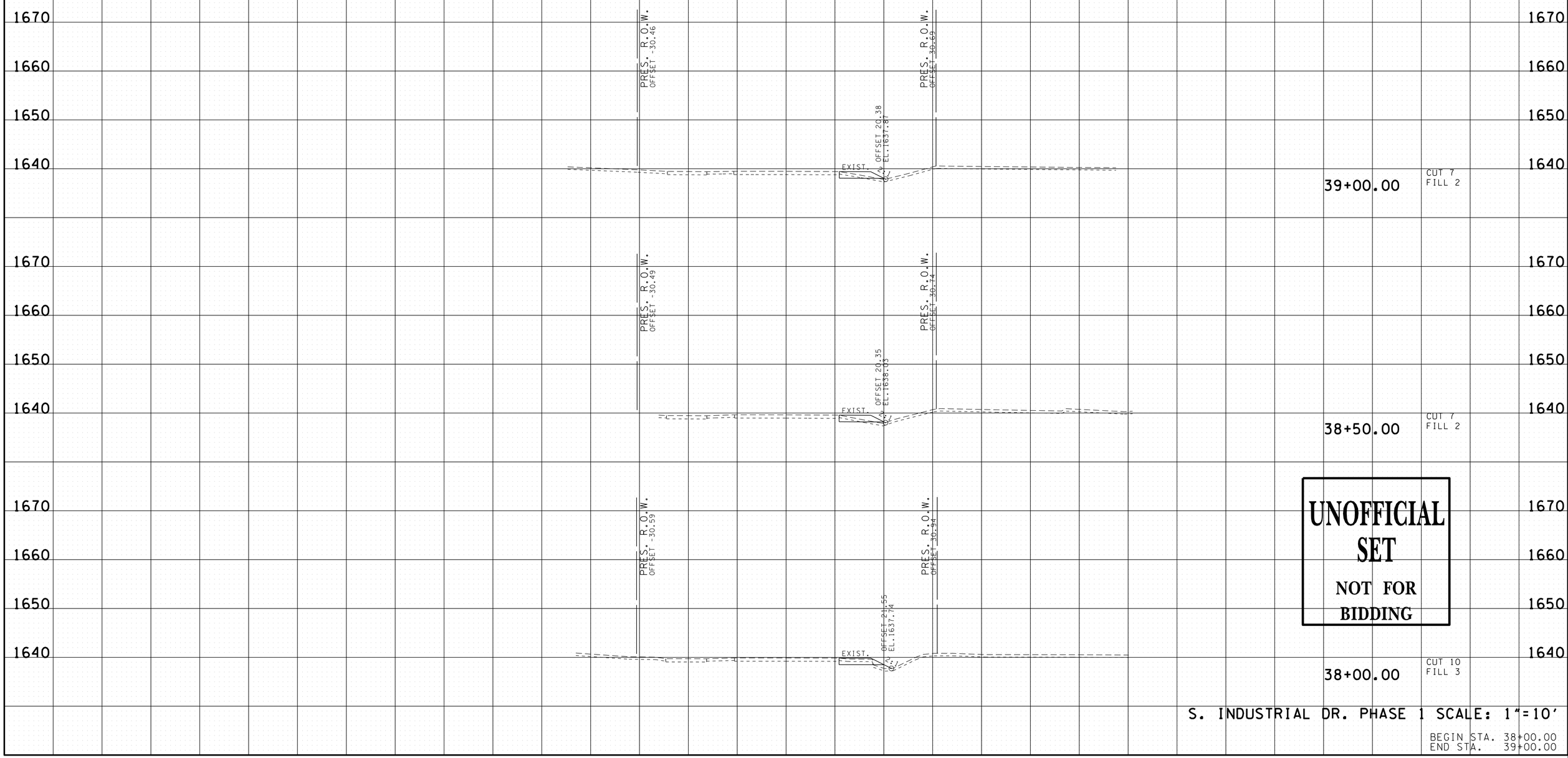
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 36+50.00
END STA. 37+50.00

18-MAR-2014 13:23
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	47



UNOFFICIAL SET

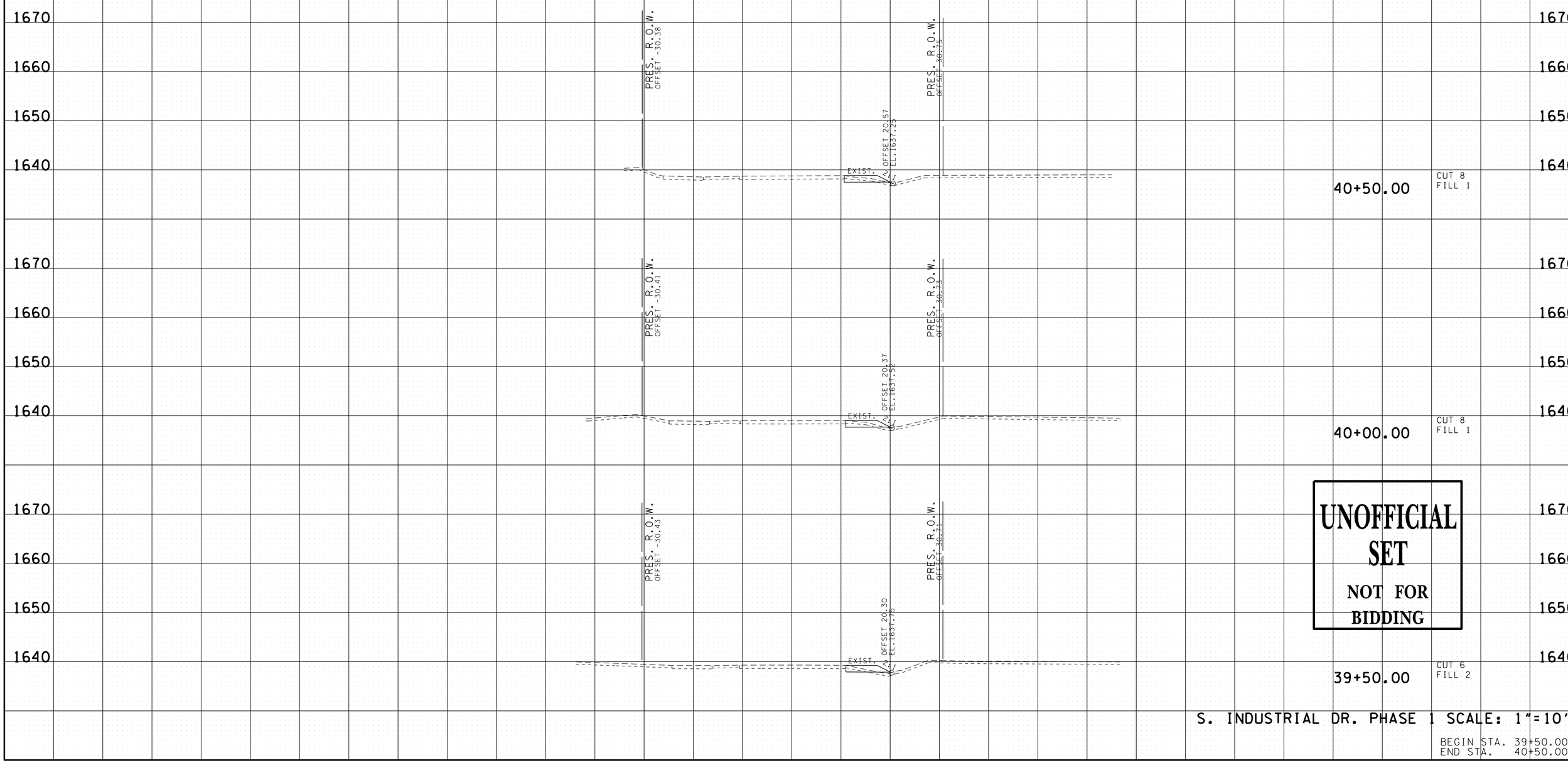
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 38+00.00
END STA. 39+00.00

18-MAR-2014 13:23
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	48



UNOFFICIAL SET

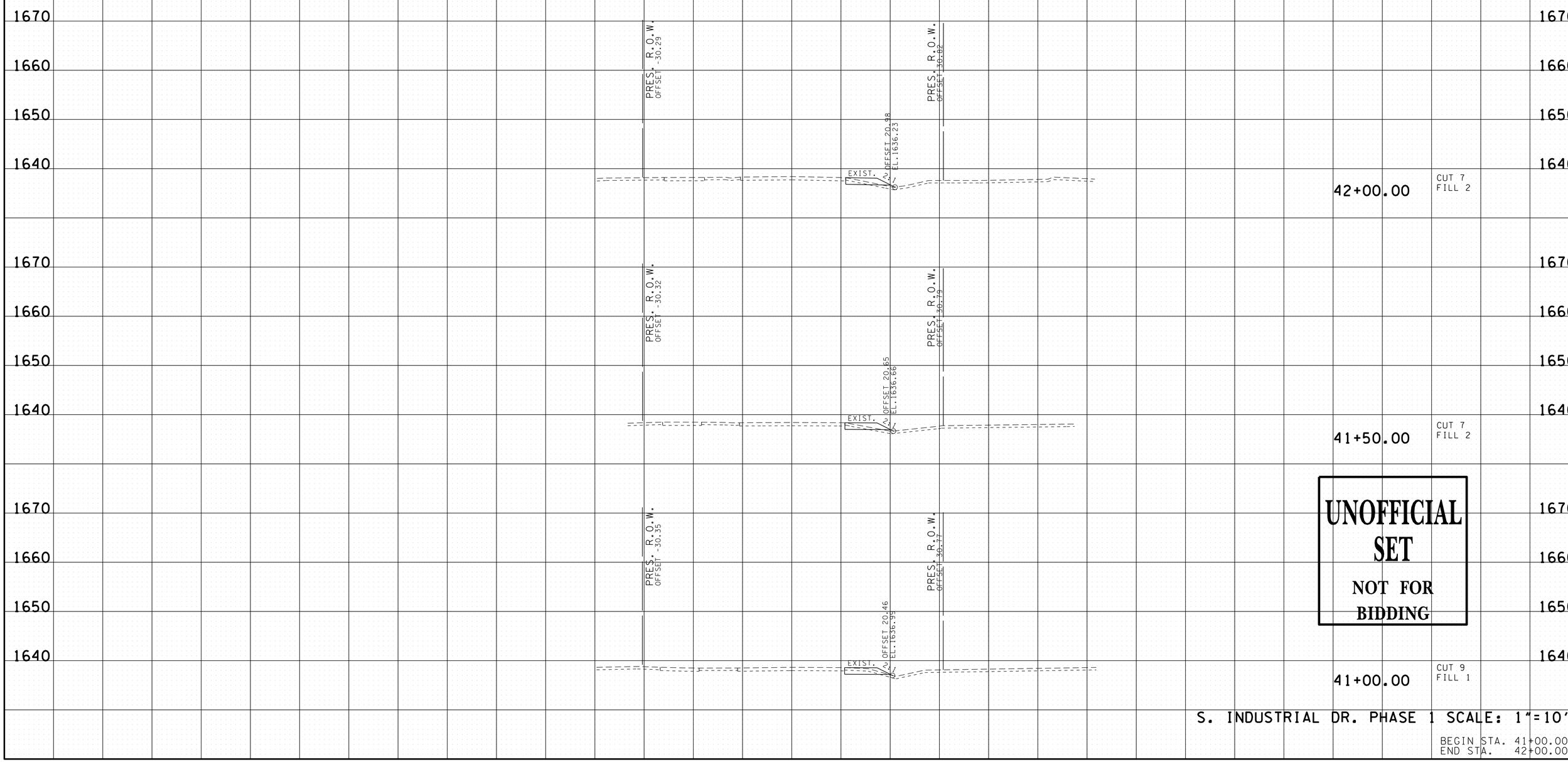
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 39+50.00
END STA. 40+50.00

18-MAR-2014 13:22
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	49



UNOFFICIAL SET

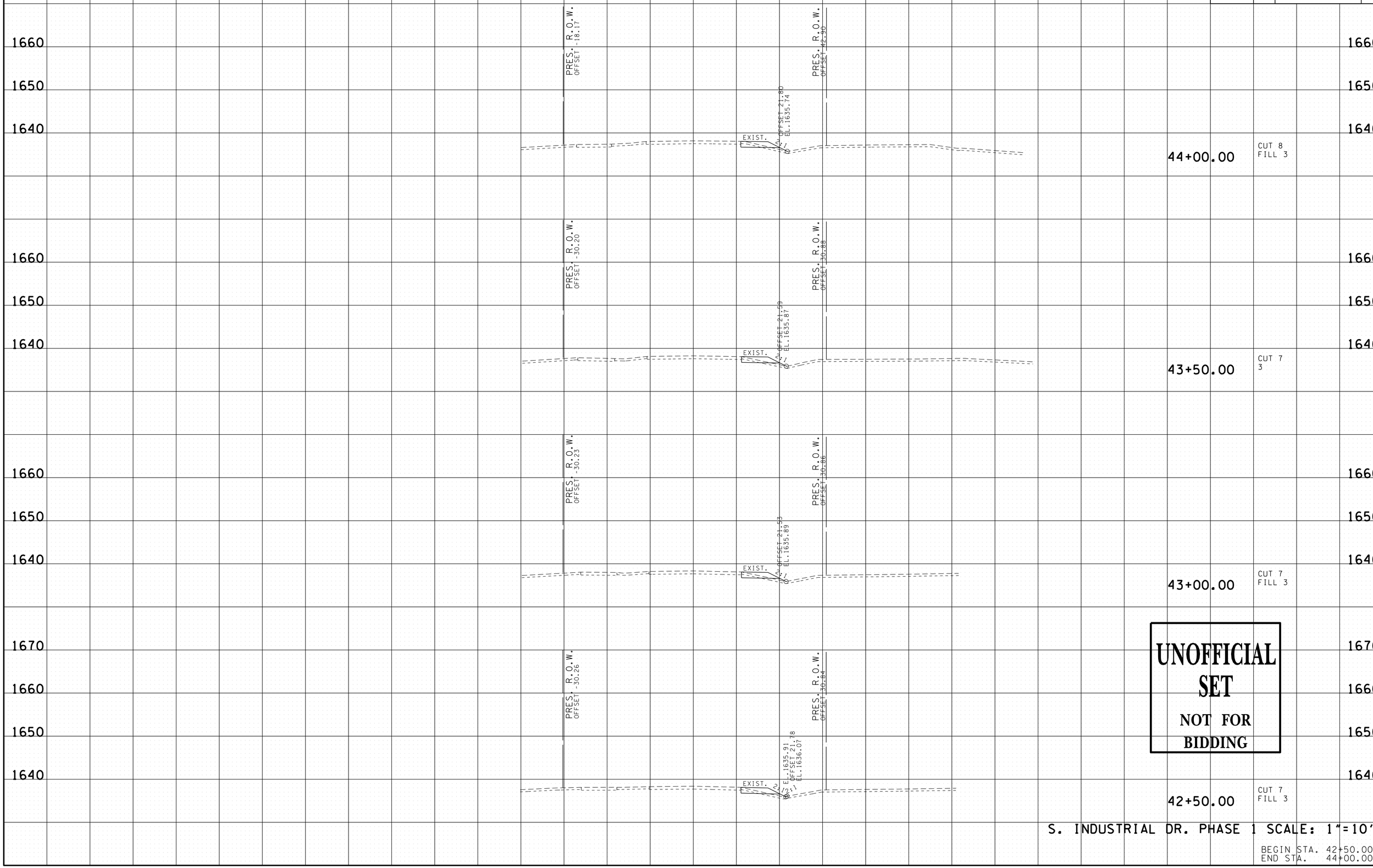
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 41+00.00
END STA. 42+00.00

18-MAR-2014 13:22
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	50



UNOFFICIAL SET

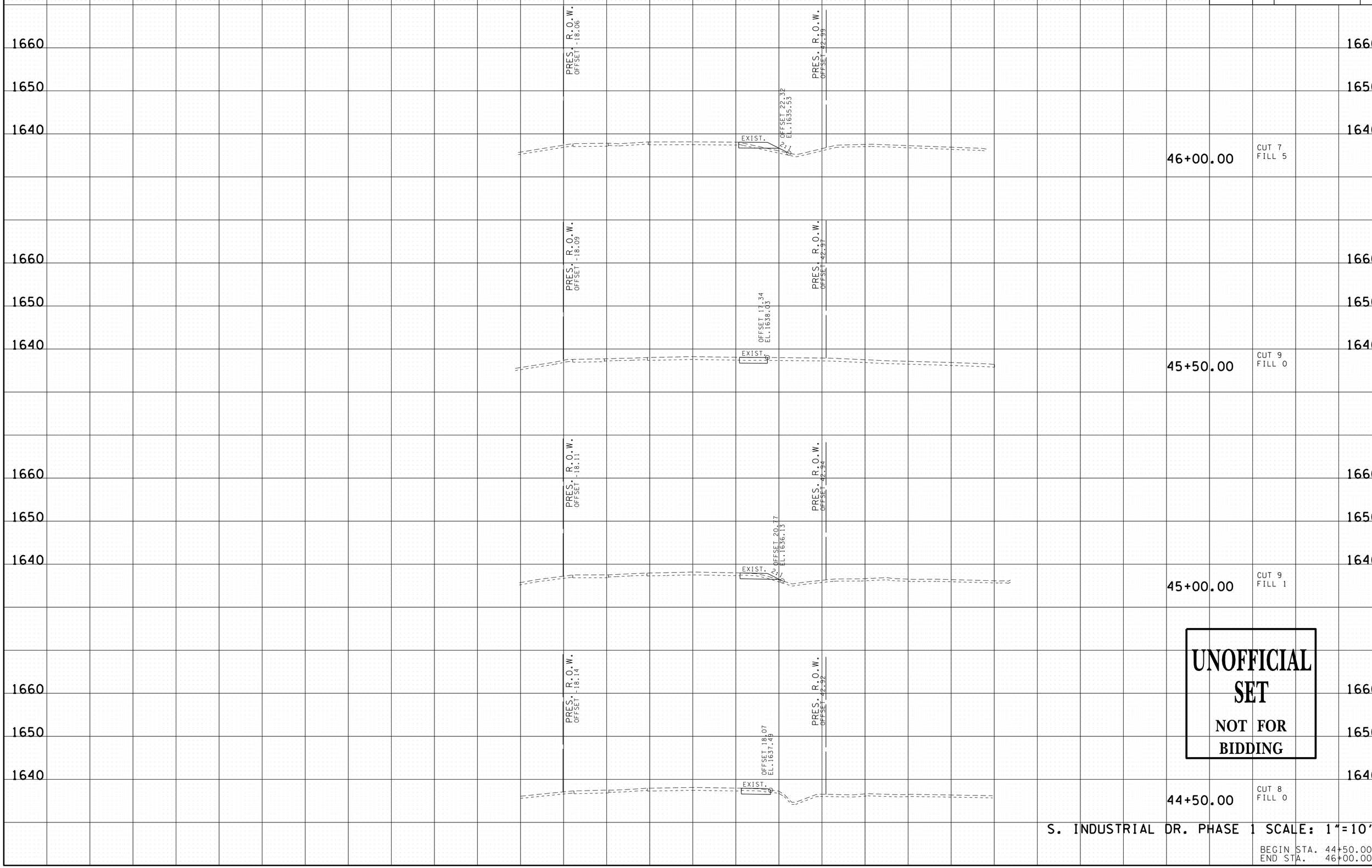
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 42+50.00
END STA. 44+00.00

18-MAR-2014 13:23
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	51



UNOFFICIAL SET

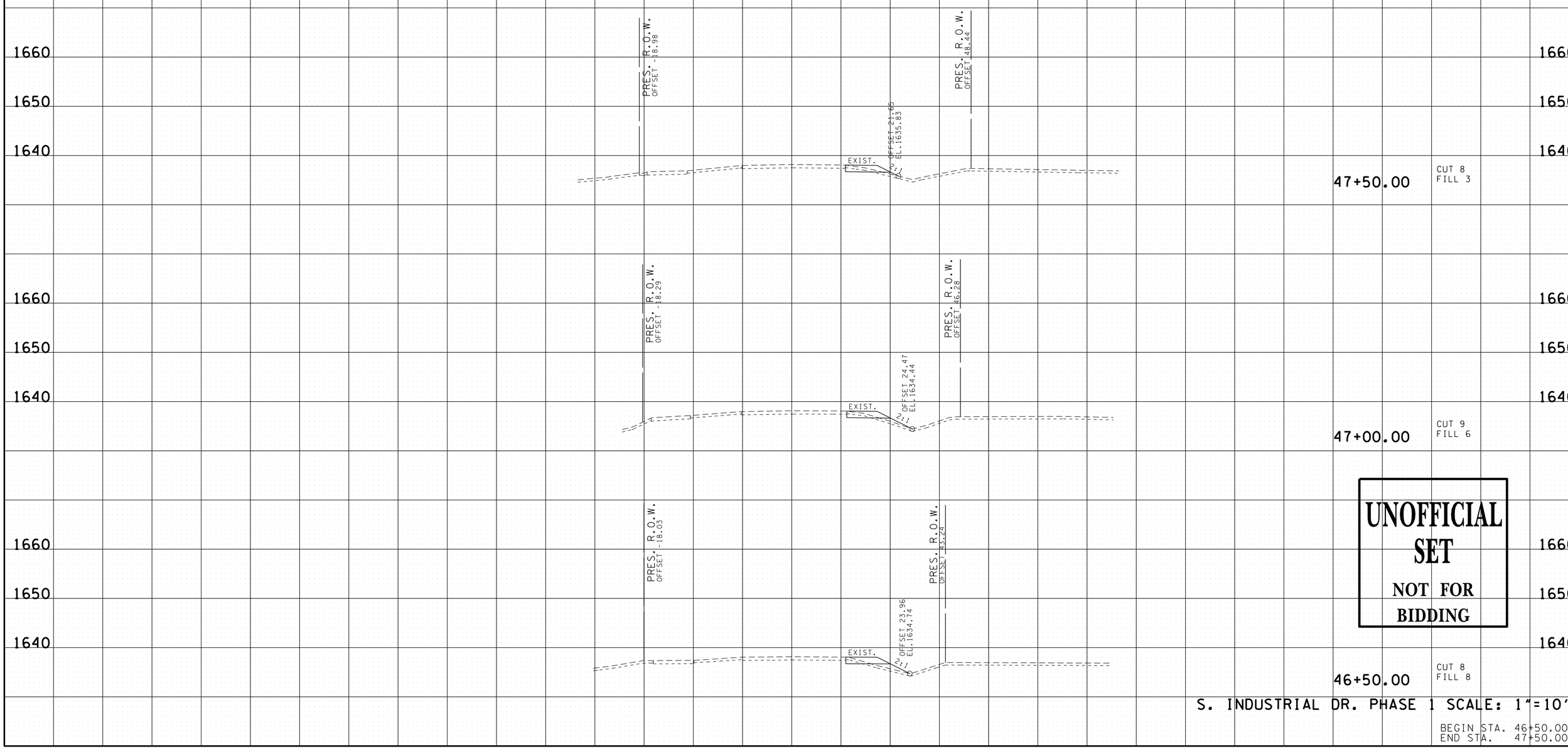
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 44+50.00
END STA. 46+00.00

18-MAR-2014 13:23
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	52



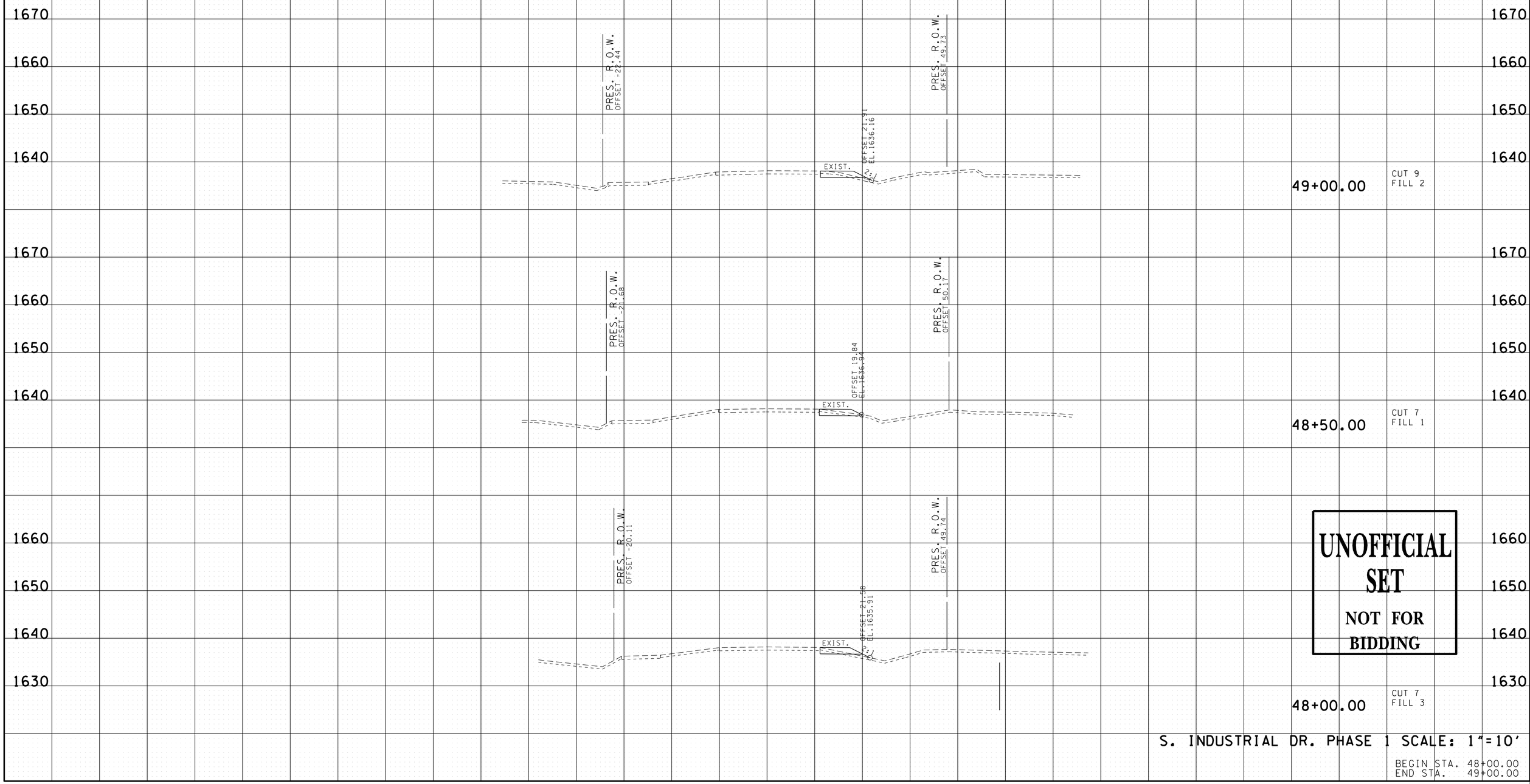
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 46+50.00
END STA. 47+50.00

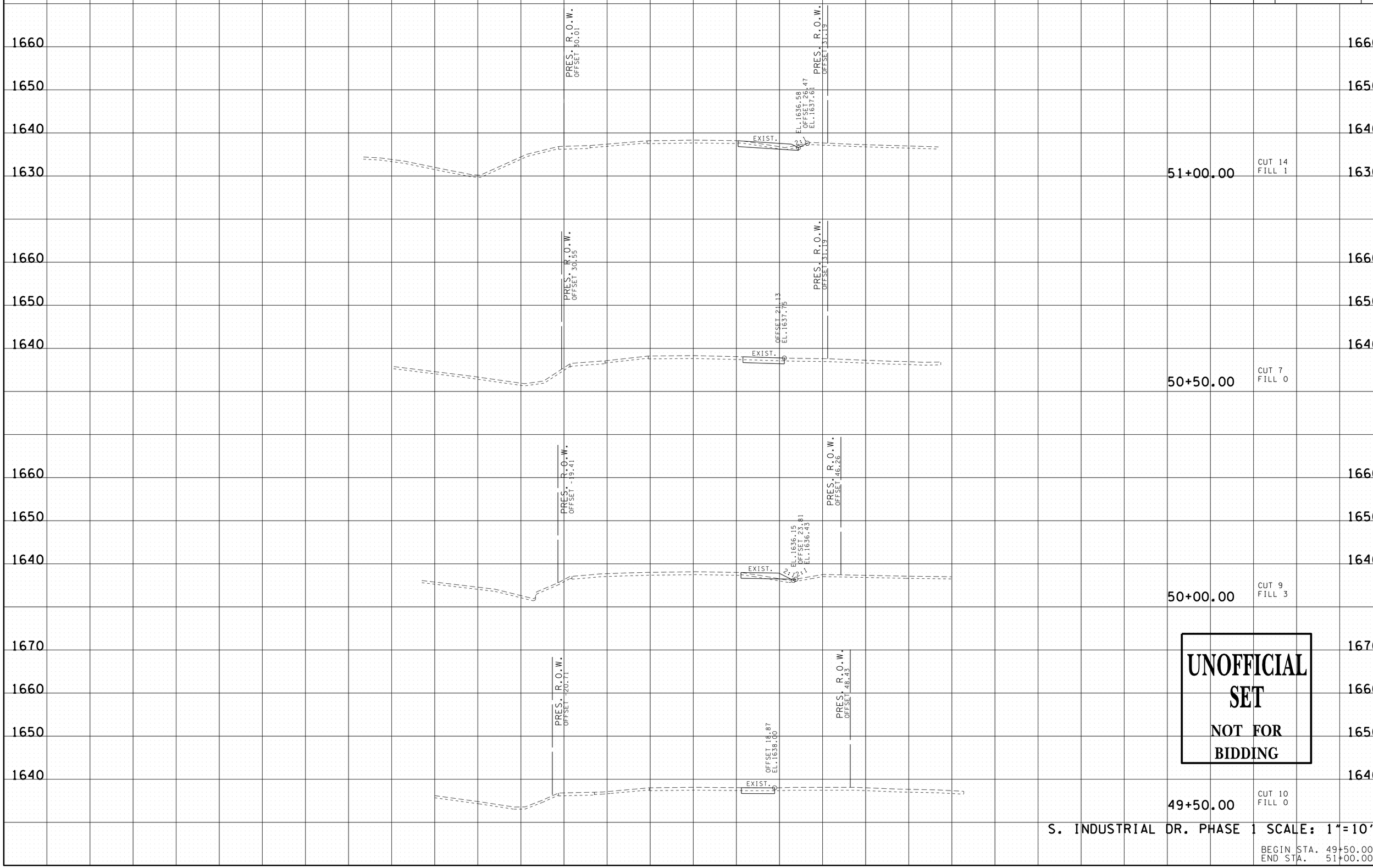
18-MAR-2014 13:23
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhaseIXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	53



18-MAR-2014 13:23
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhaseIXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	54



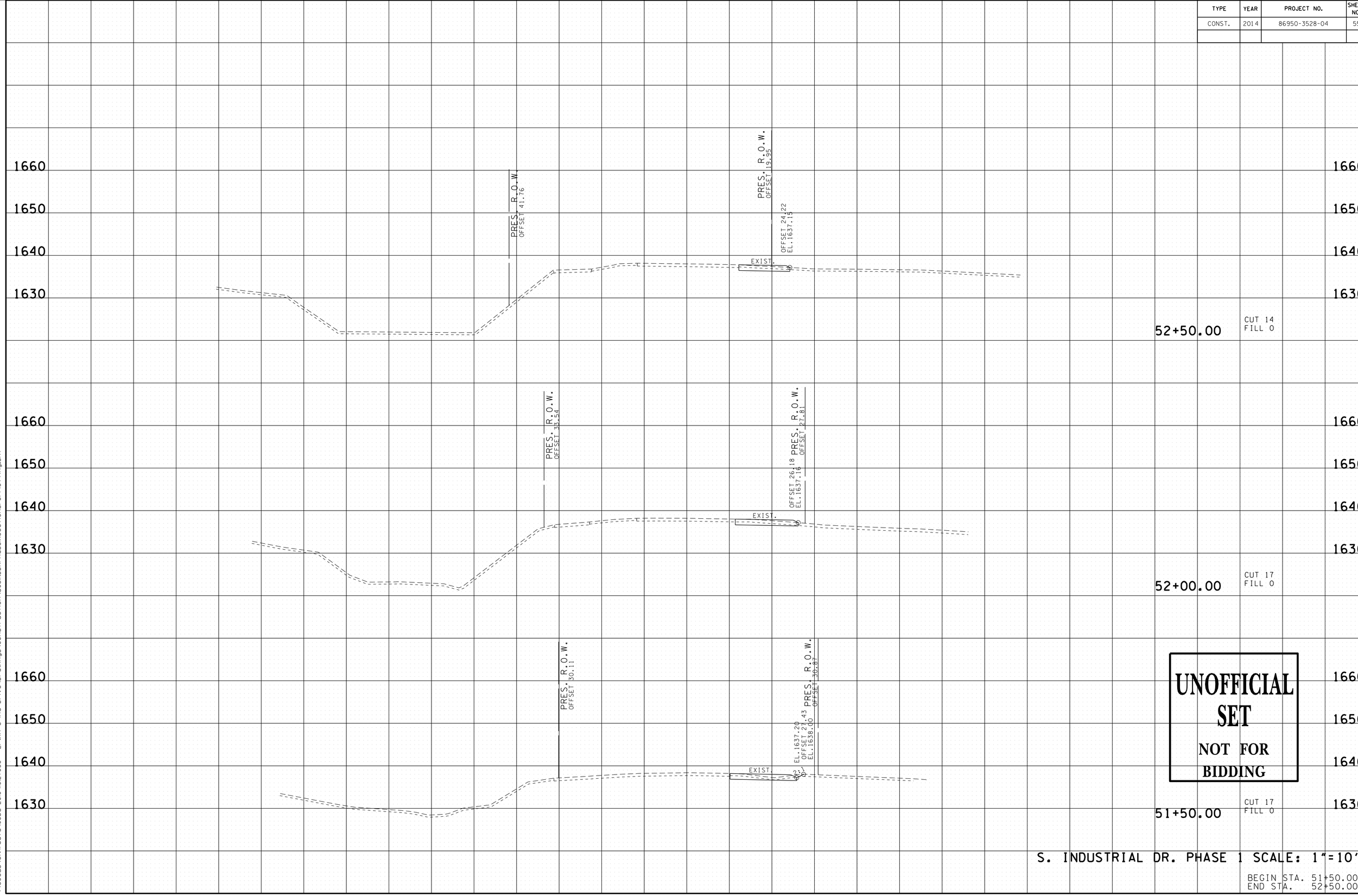
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 49+50.00
END STA. 51+00.00

18-MAR-2014 13:24
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhaseIXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	55



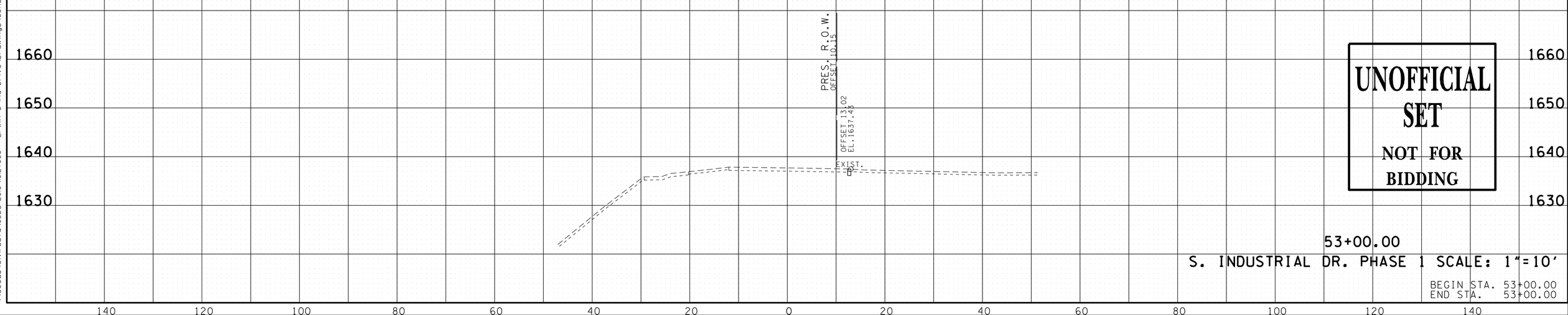
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 51+50.00
END STA. 52+50.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	86950-3528-04	56



UNOFFICIAL SET

NOT FOR BIDDING

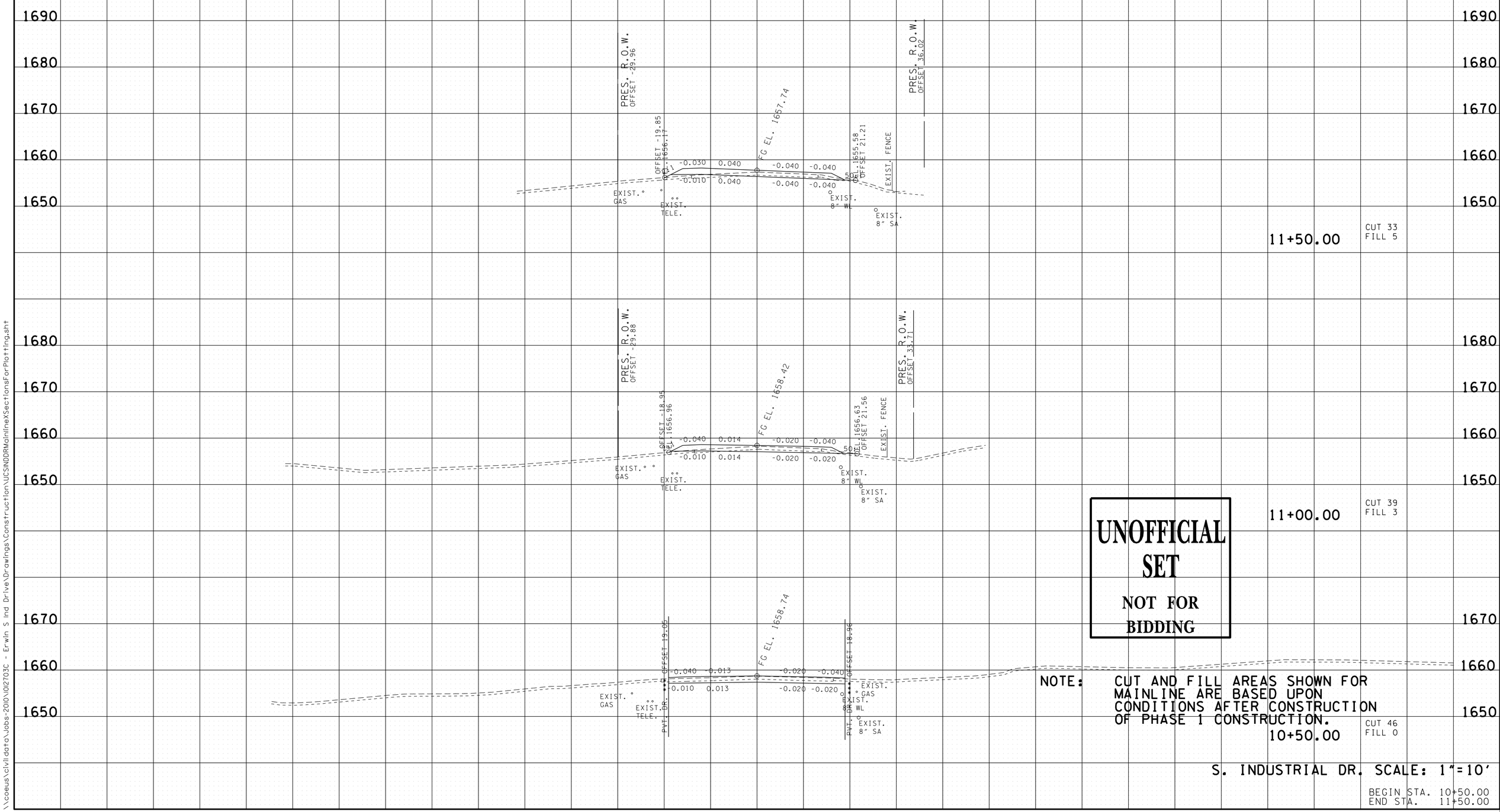
53+00.00

S. INDUSTRIAL DR. PHASE 1 SCALE: 1"=10'

BEGIN STA. 53+00.00
END STA. 53+00.00

18-MAR-2014 13:24
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRPhase1XSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	19
CONST.	2014	86950-3528-04	57



UNOFFICIAL SET

NOT FOR BIDDING

NOTE: CUT AND FILL AREAS SHOWN FOR MAINLINE ARE BASED UPON CONDITIONS AFTER CONSTRUCTION OF PHASE 1 CONSTRUCTION.

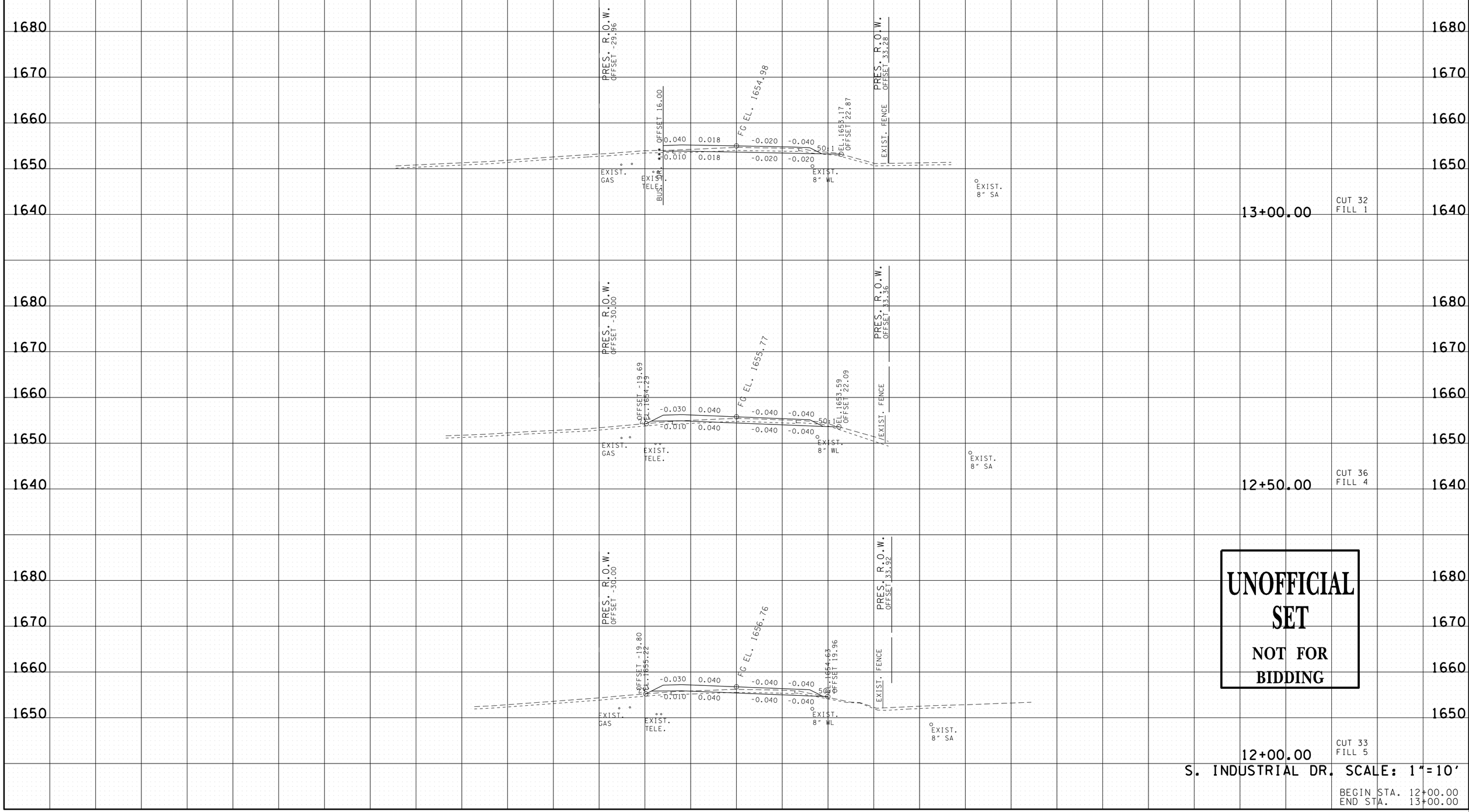
S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 10+50.00
END STA. 11+50.00

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

18-MAR-2014 13:24
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

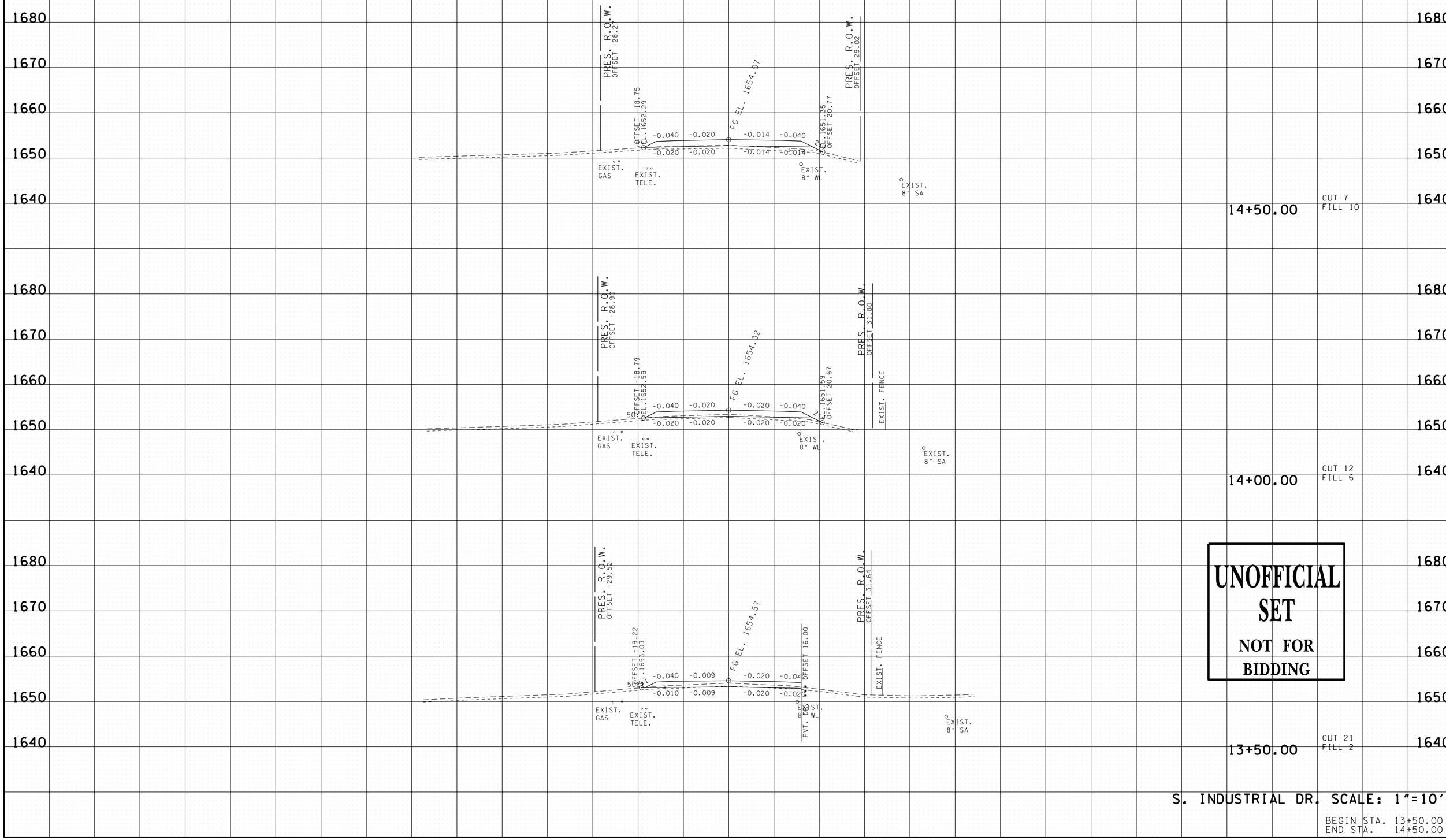
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	20
CONST.	2014	86950-3528-04	58



UNOFFICIAL SET
NOT FOR BIDDING

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\UCSNDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	21
CONST.	2014	86950-3528-04	59



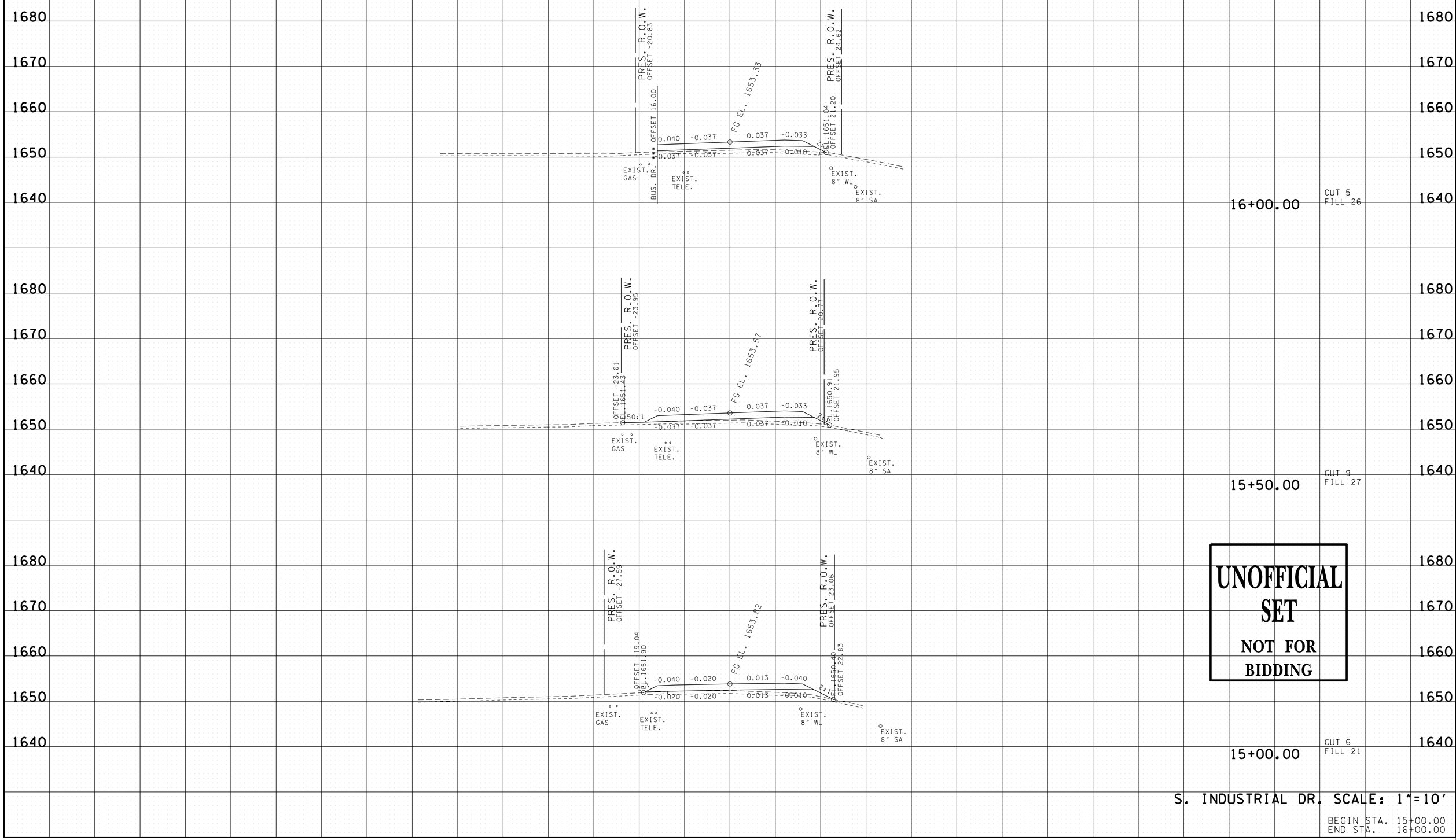
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 13+50.00
END STA. 14+50.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	22
CONST.	2014	86950-3528-04	60



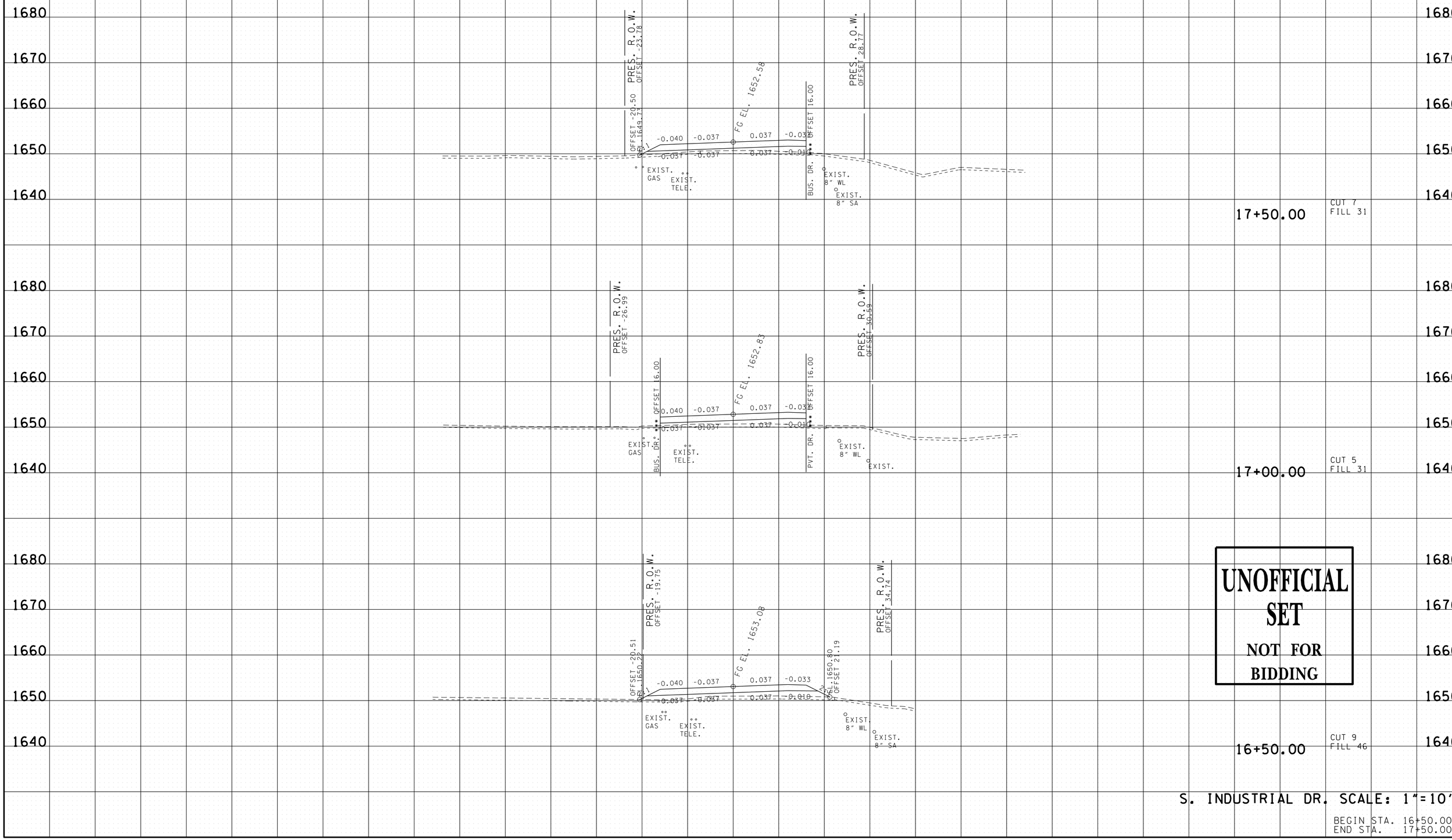
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 15+00.00
END STA. 16+00.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	23
CONST.	2014	86950-3528-04	61



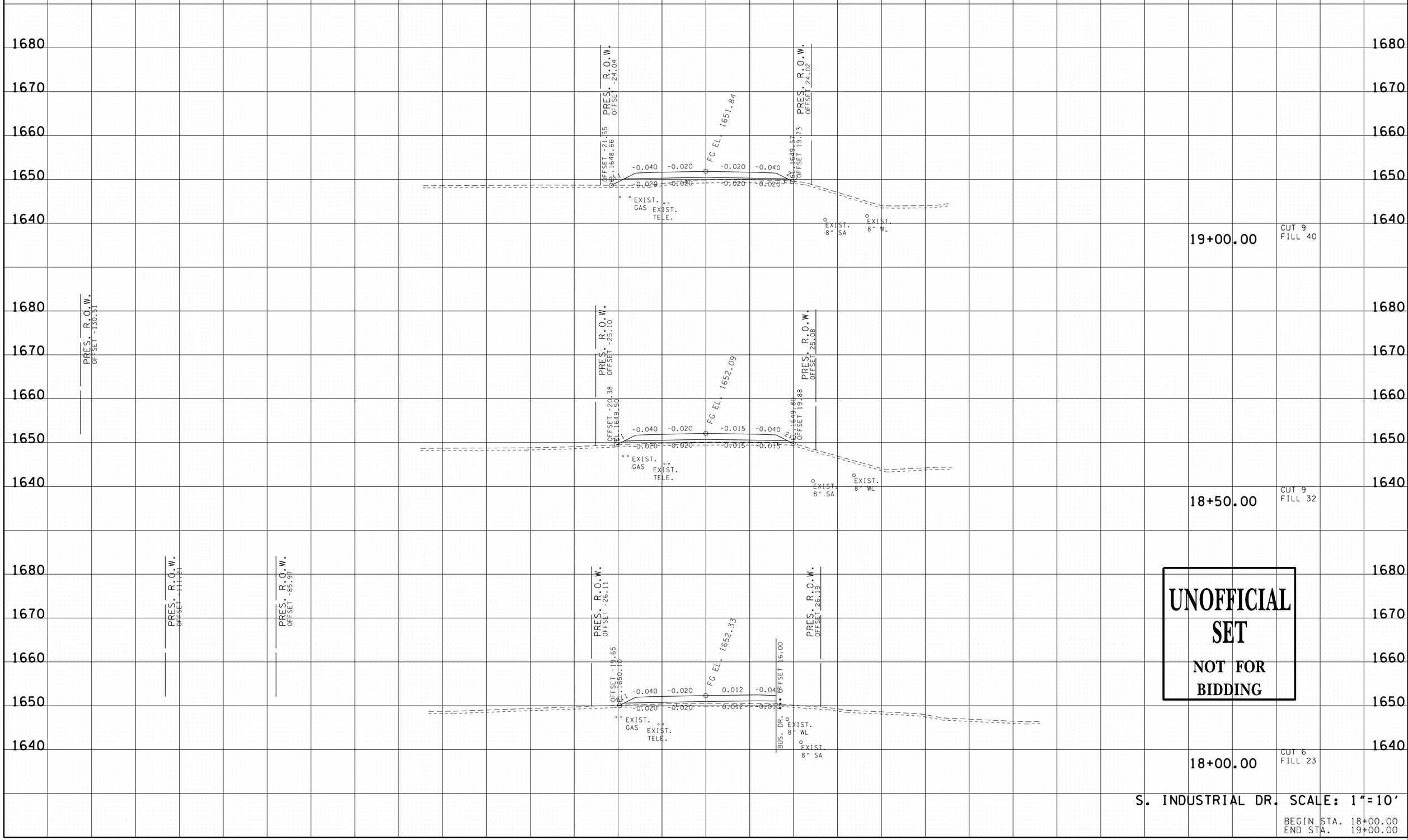
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 16+50.00
END STA. 17+50.00

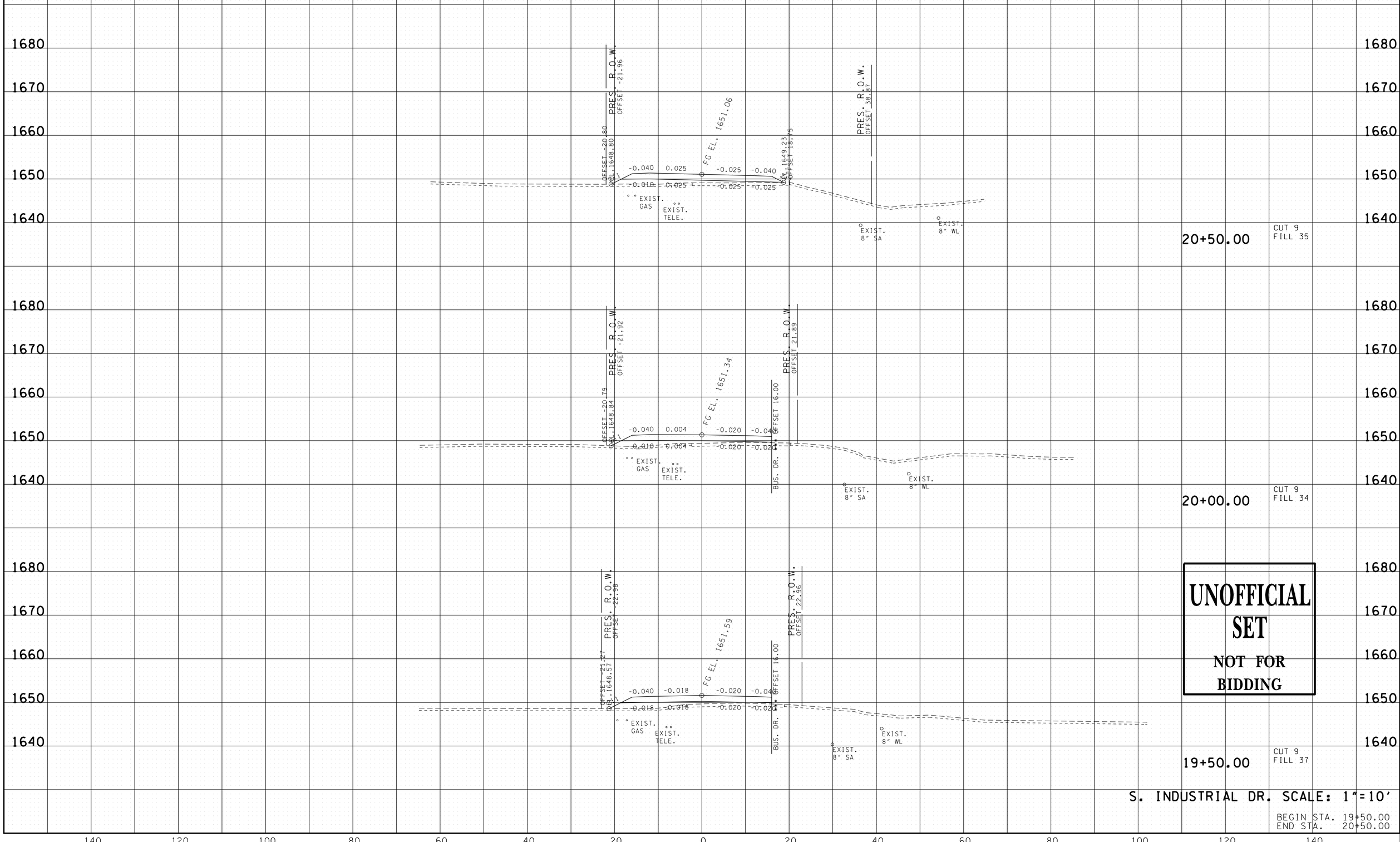
18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\0102703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	24
CONST.	2014	86950-3528-04	62



18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	25
CONST.	2014	86950-3528-04	63



UNOFFICIAL SET

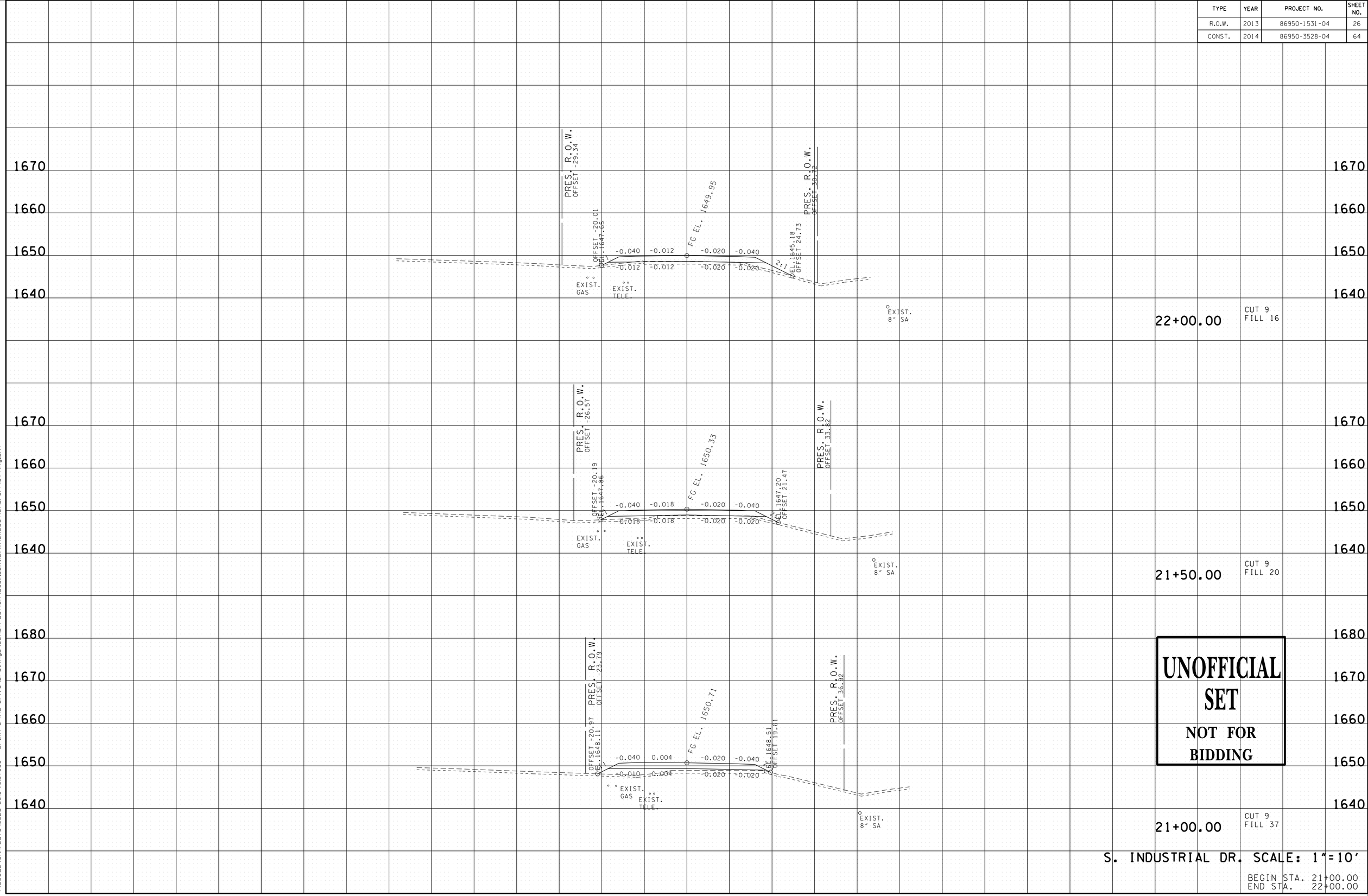
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 19+50.00
END STA. 20+50.00

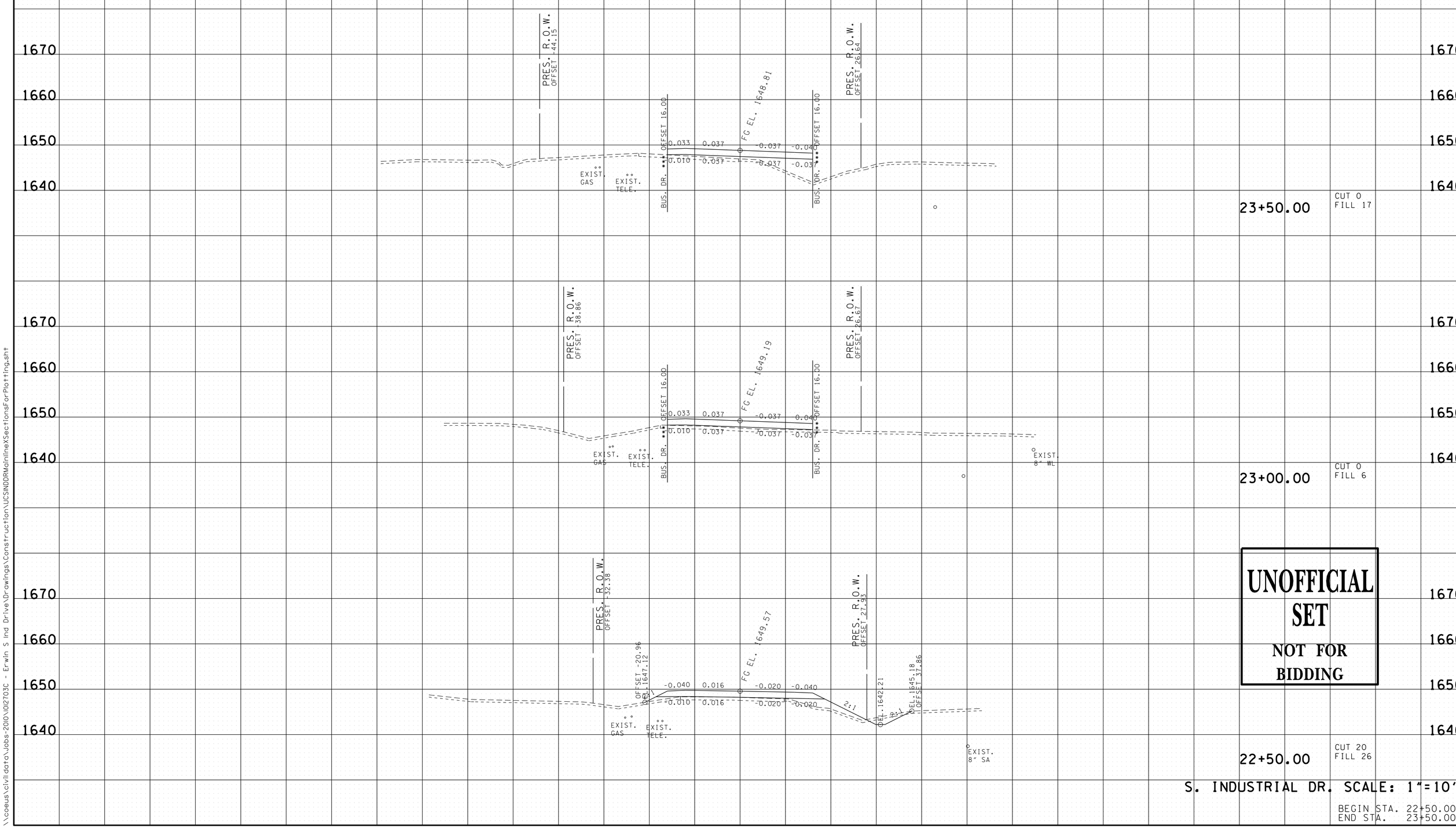
18-MAR-2014 13:24
\\coeus\civil.data\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	26
CONST.	2014	86950-3528-04	64



18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	27
CONST.	2014	86950-3528-04	65



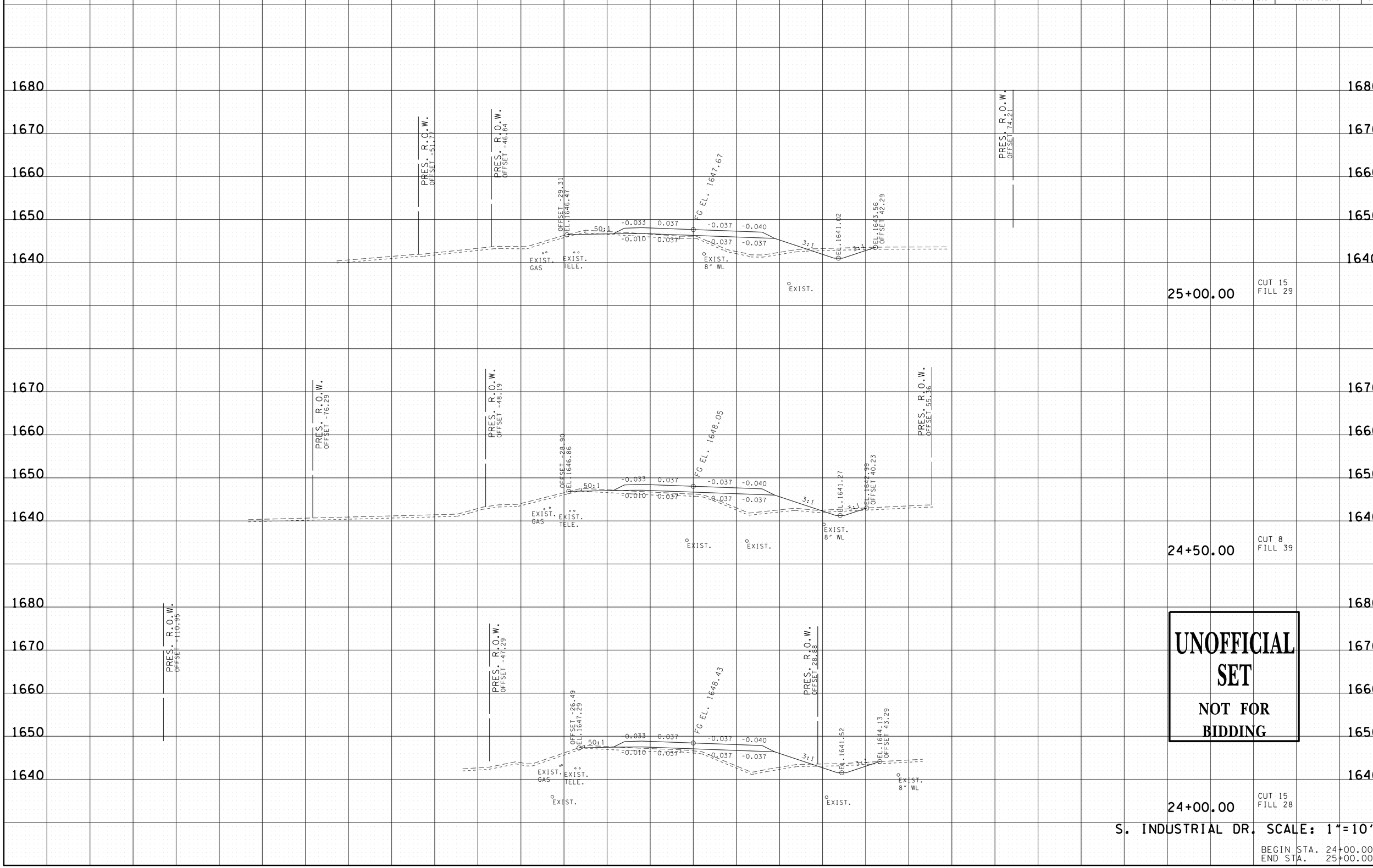
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 22+50.00
END STA. 23+50.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	28
CONST.	2014	86950-3528-04	66



UNOFFICIAL SET

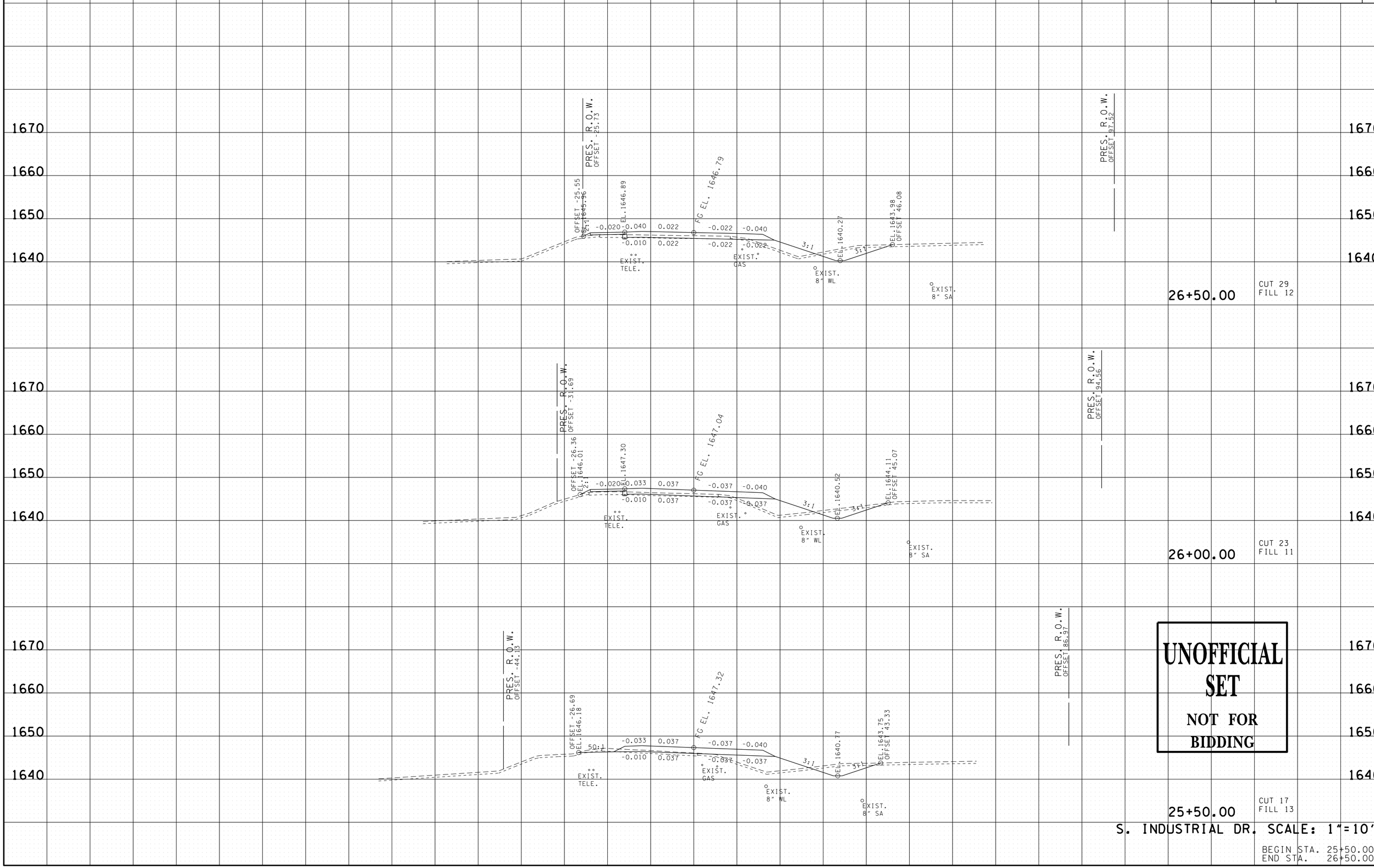
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 24+00.00
END STA. 25+00.00

18-MAR-2014 13:24
\\coeus\civil data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	29
CONST.	2014	86950-3528-04	67



UNOFFICIAL SET

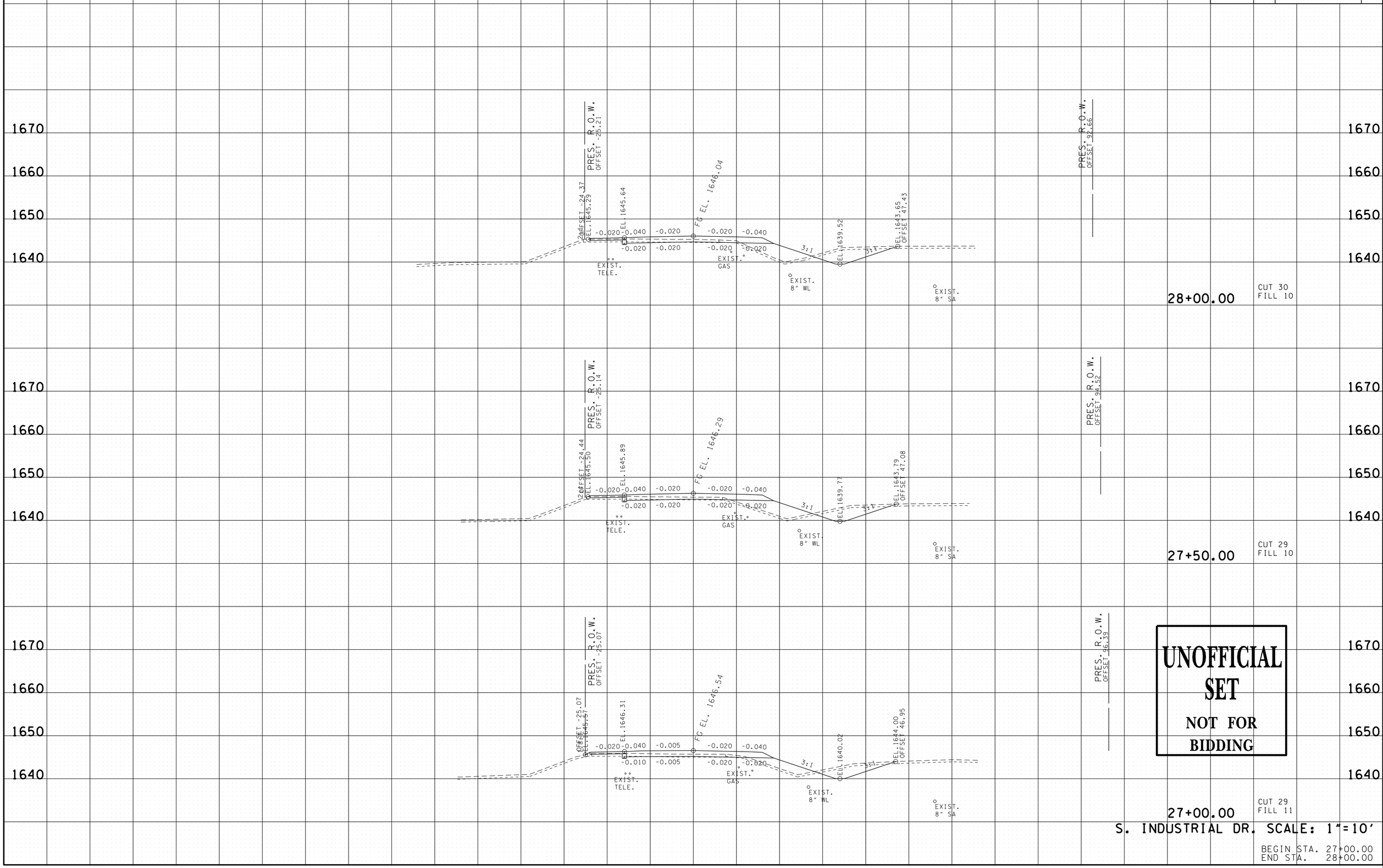
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 25+50.00
END STA. 26+50.00

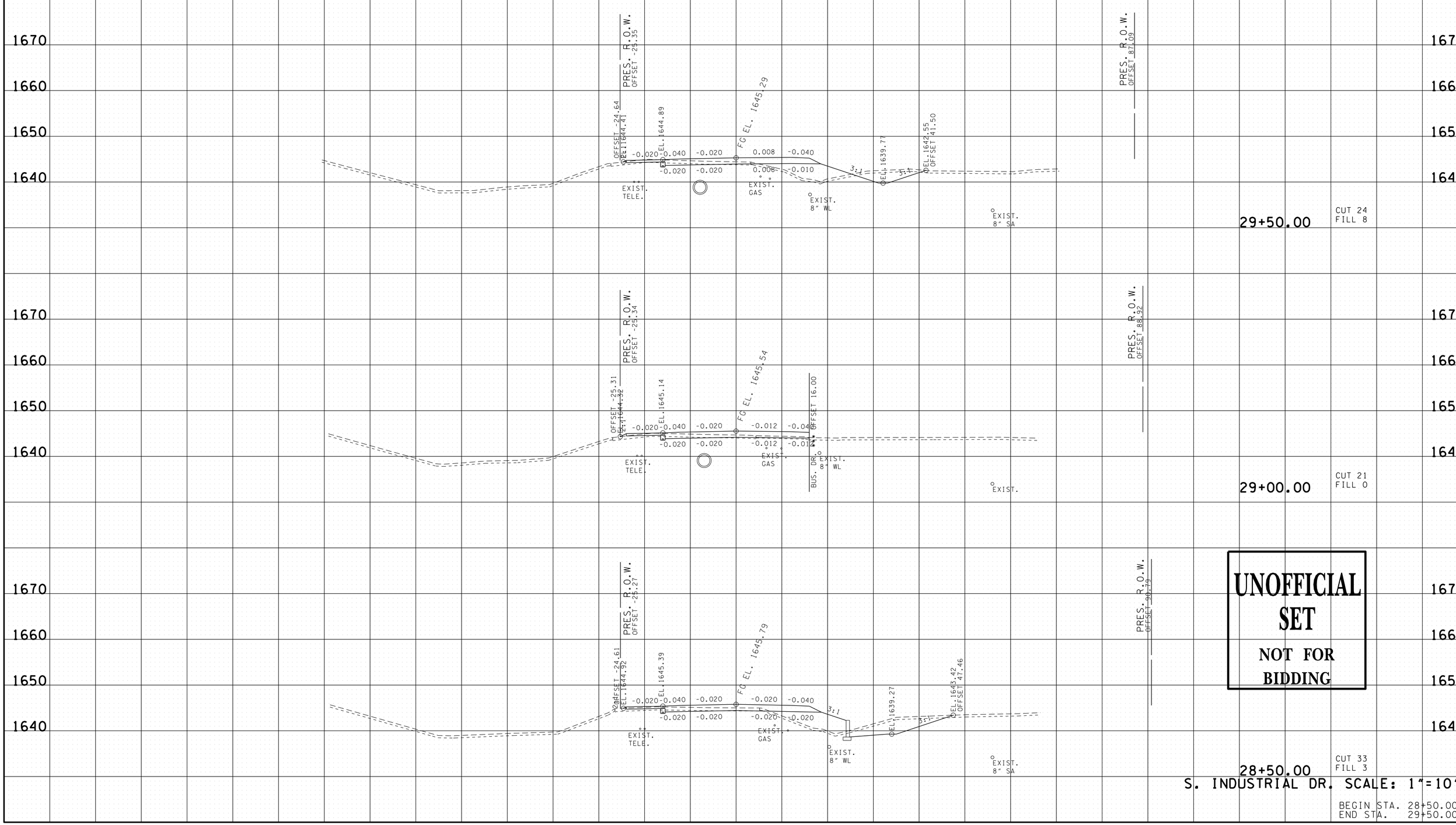
18-MAR-2014 13:24
\\coeus\civil.data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	30
CONST.	2014	86950-3528-04	68



18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	31
CONST.	2014	86950-3528-04	69



UNOFFICIAL SET

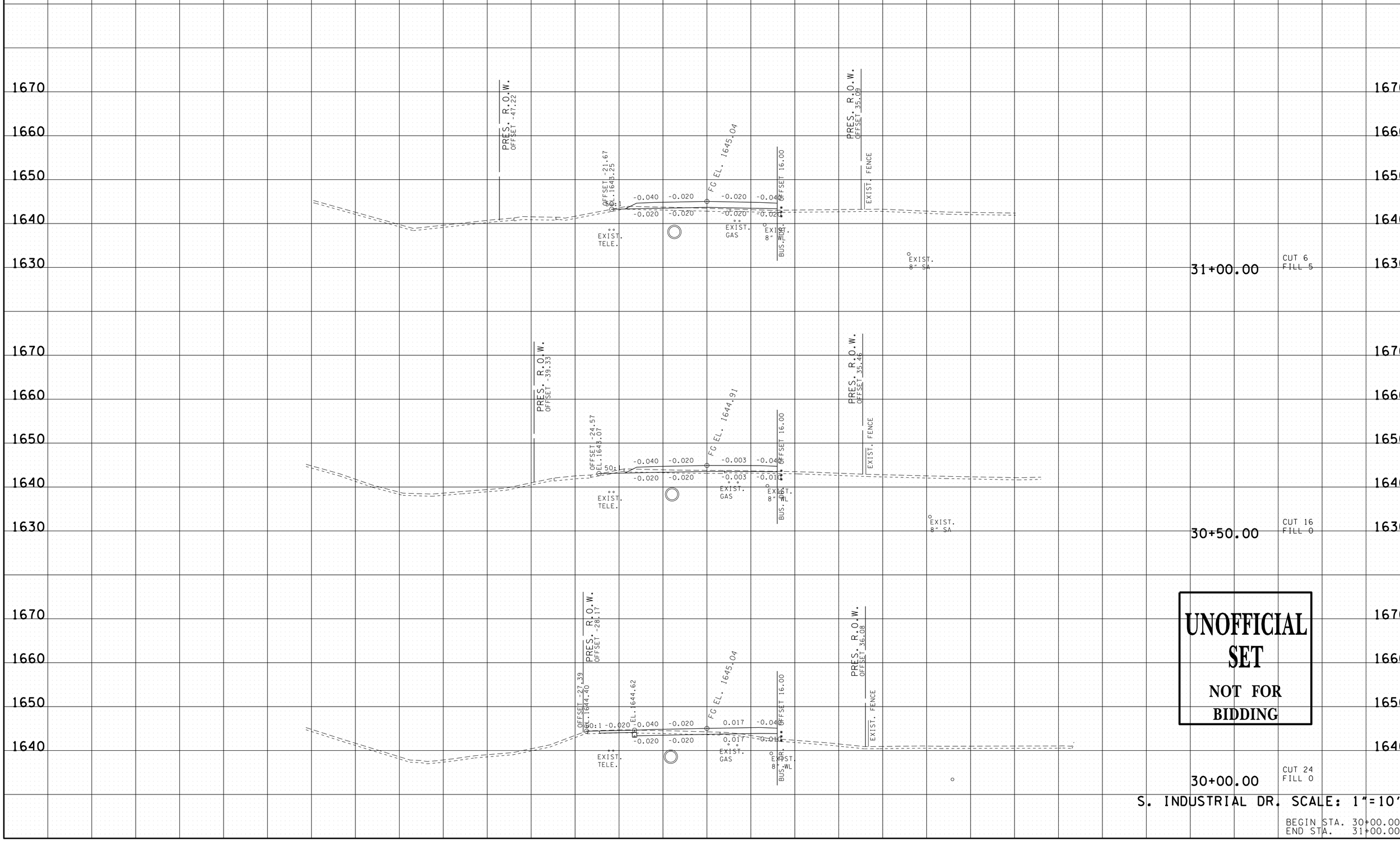
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 28+50.00
END STA. 29+50.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\0\2703C - Erwin S Ind Drive\Drawings\Construction\UCSNDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	32
CONST.	2014	86950-3528-04	70



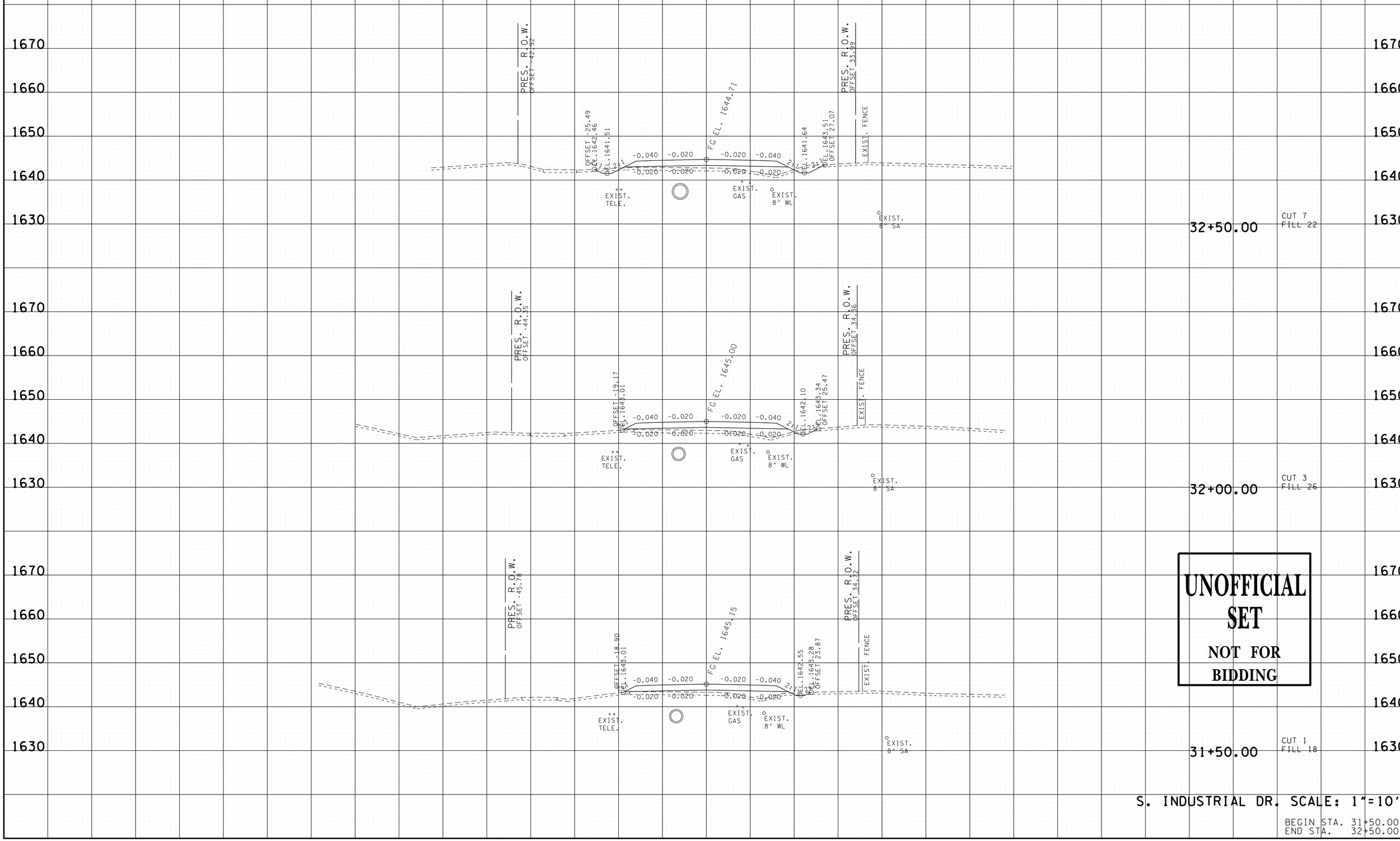
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 30+00.00
END STA. 31+00.00

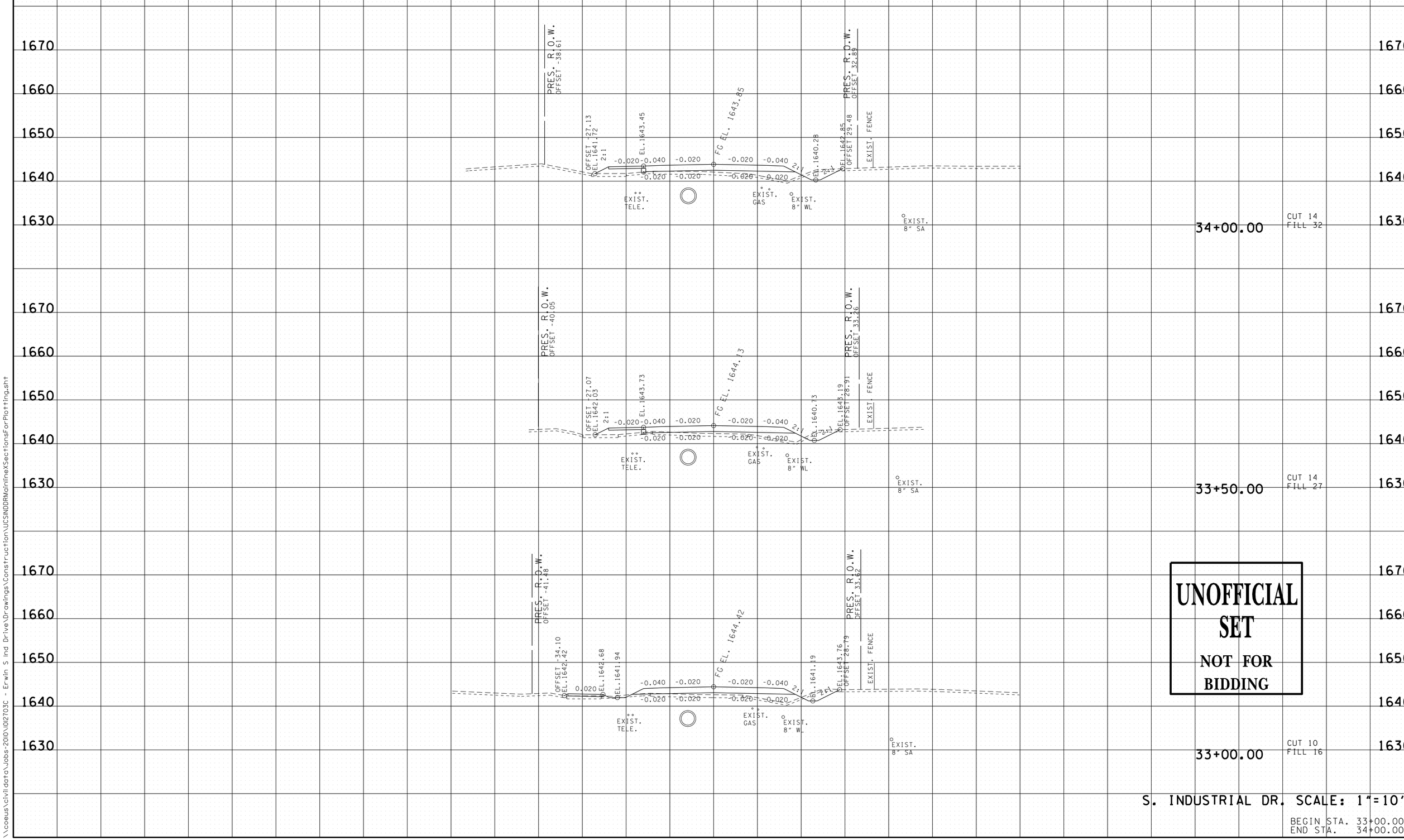
18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	33
CONST.	2014	86950-3528-04	71



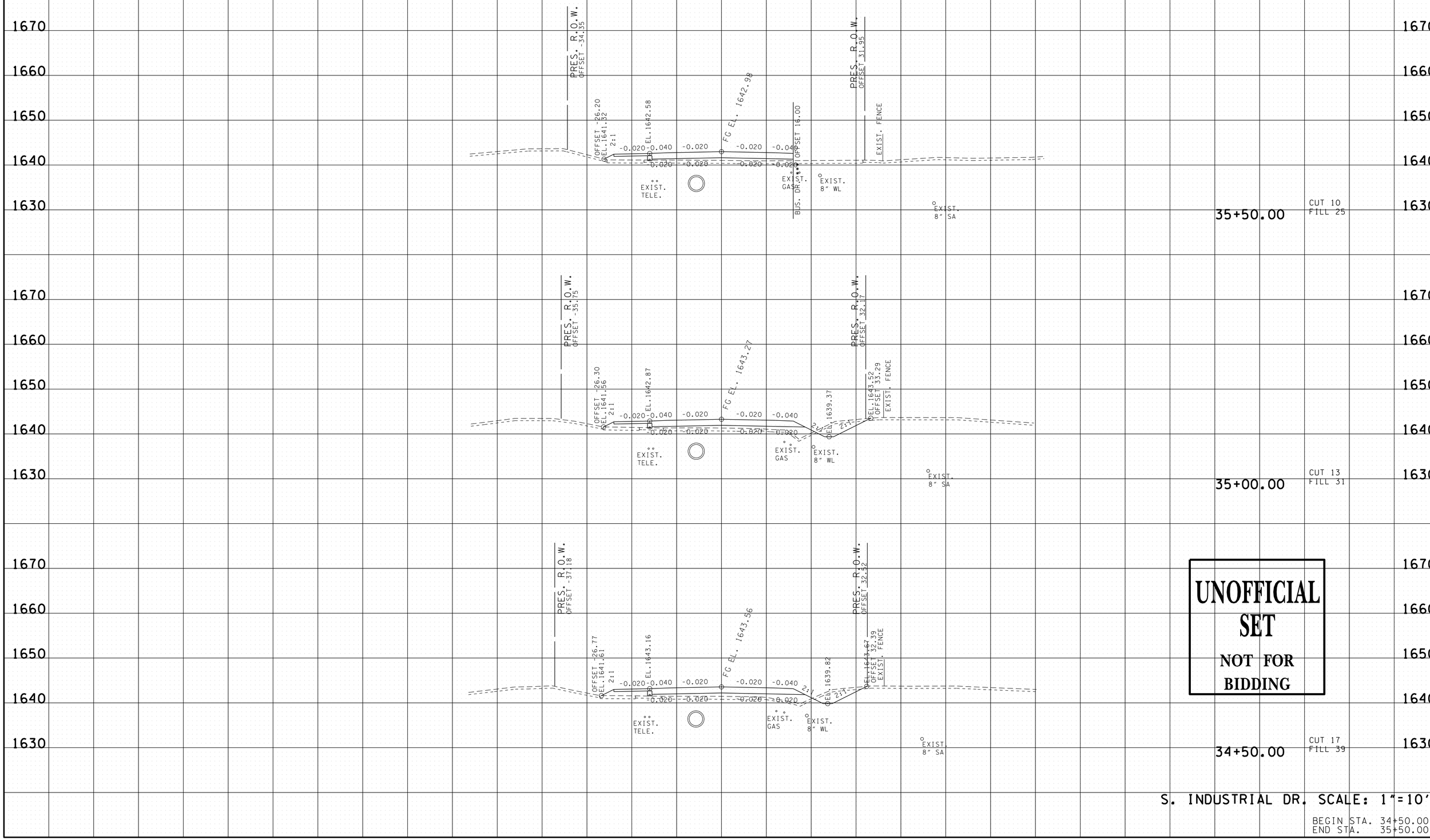
18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\0\02703C - Erwin S Ind Drive\Drawings\Construction\UCSNDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	34
CONST.	2014	86950-3528-04	72



18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	35
CONST.	2014	86950-3528-04	73



UNOFFICIAL SET

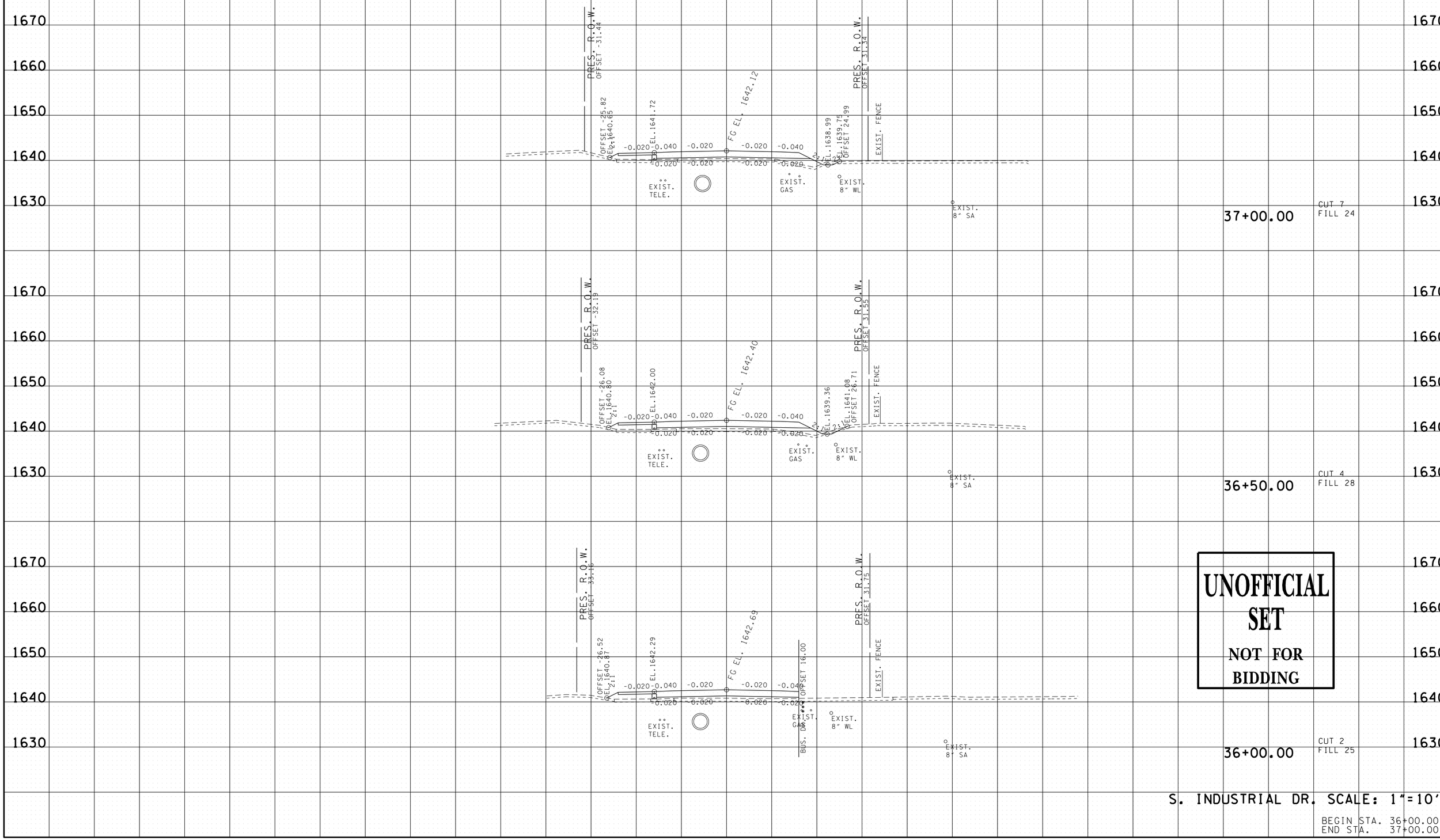
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 34+50.00
END STA. 35+50.00

18-MAR-2014 13:24
\\coeus\civil.data\Jobs-2010\02703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	36
CONST.	2014	86950-3528-04	74



UNOFFICIAL SET

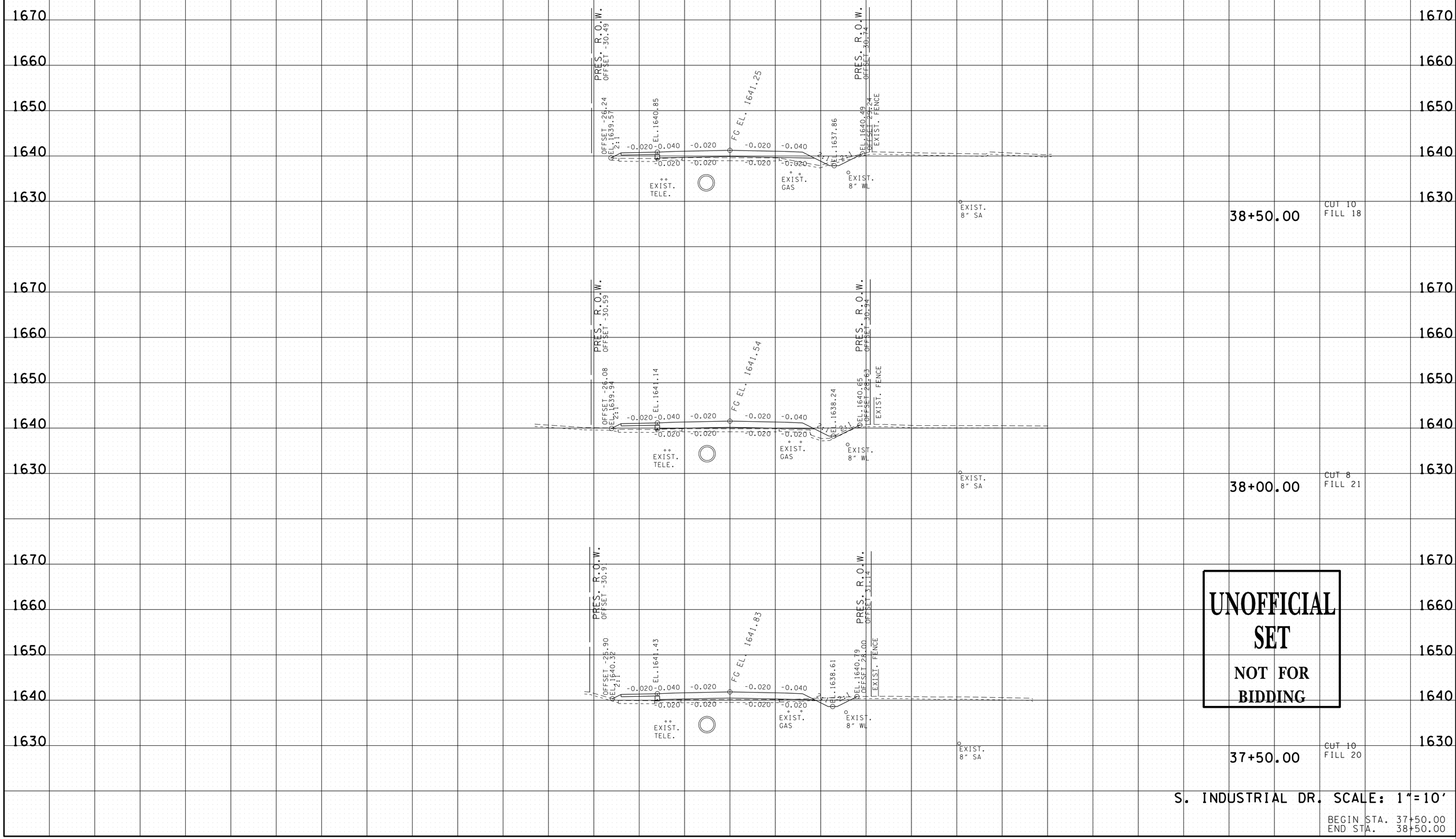
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 36+00.00
END STA. 37+00.00

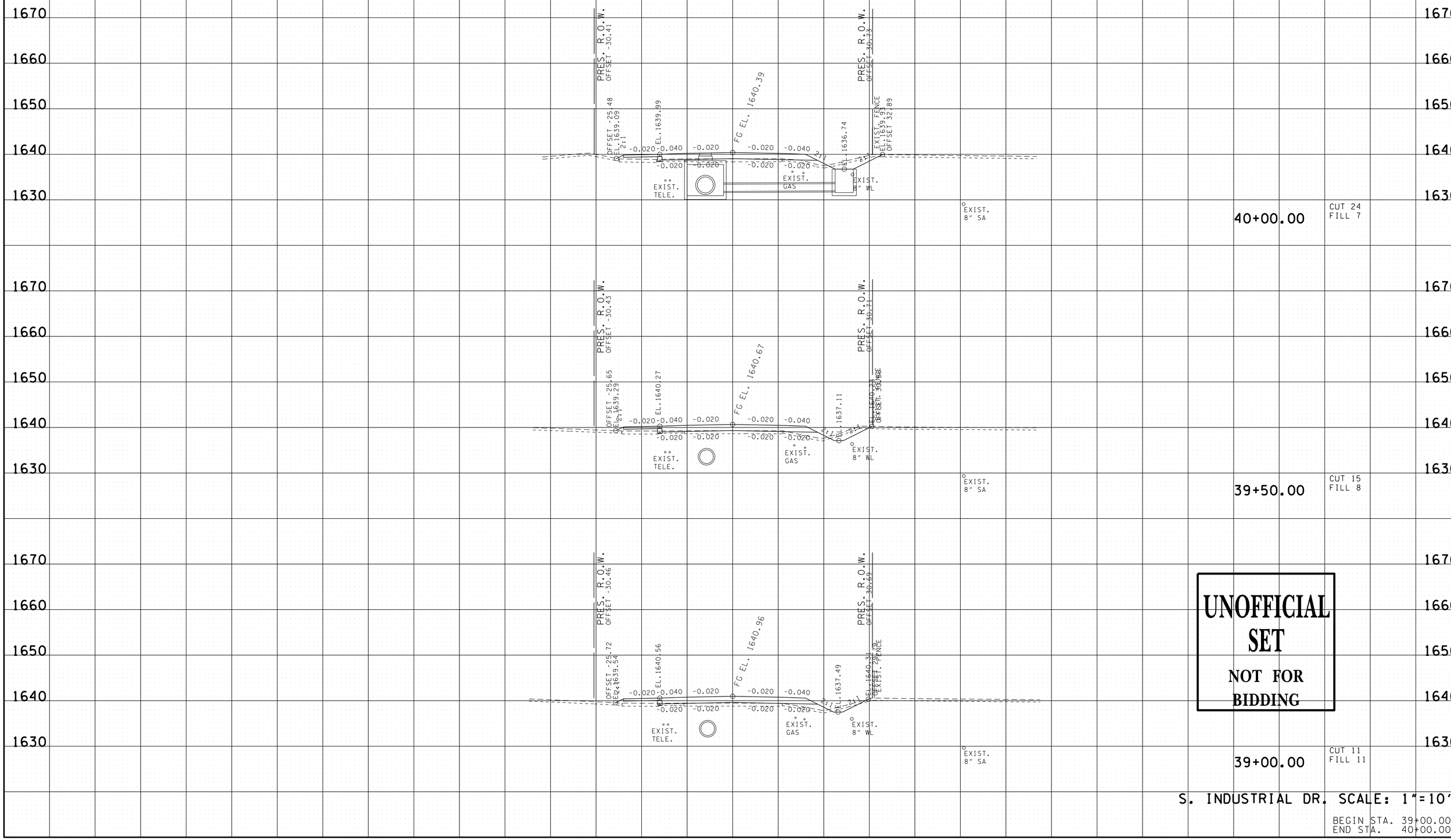
18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\0102703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	37
CONST.	2014	86950-3528-04	75



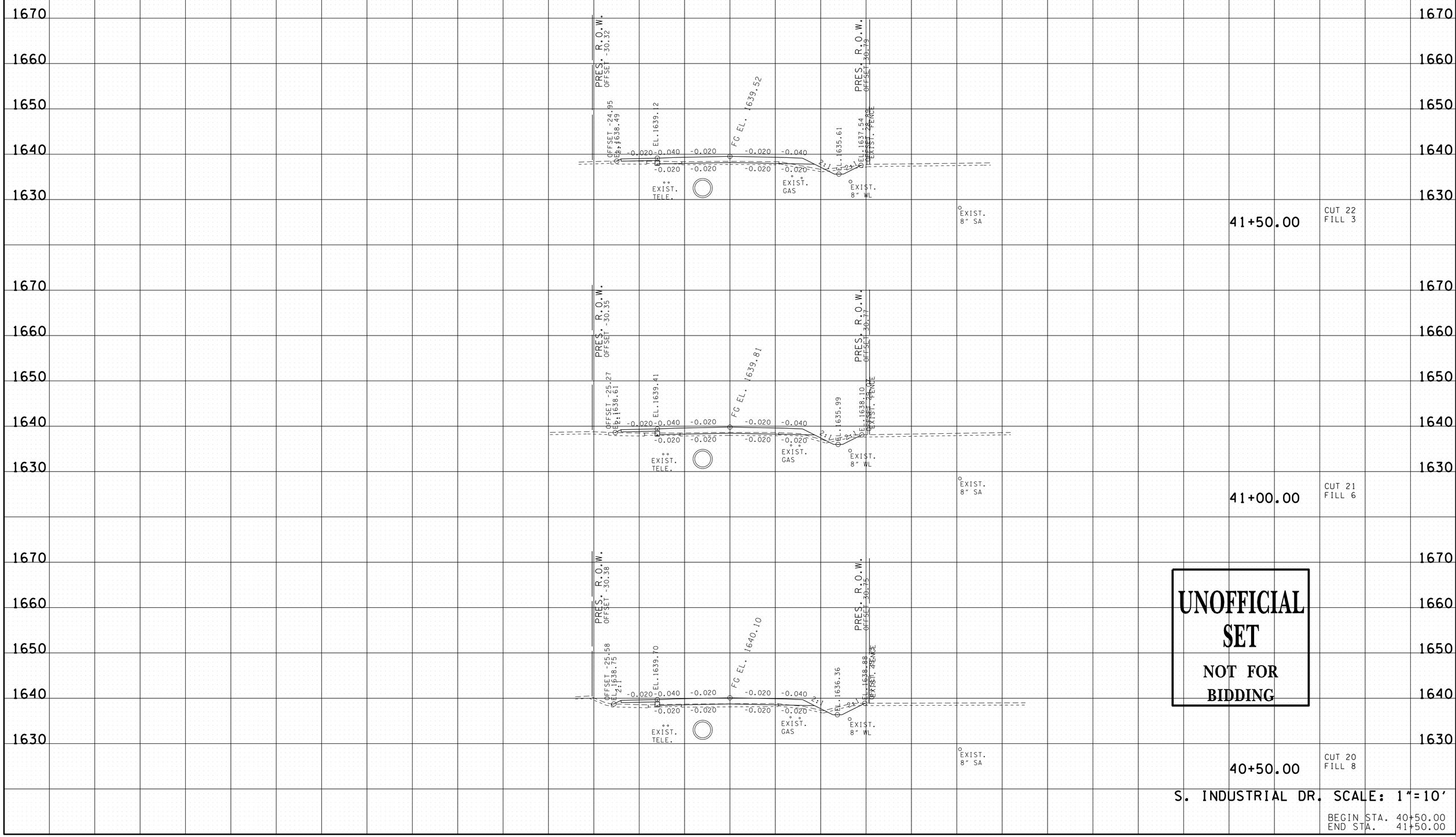
18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	38
CONST.	2014	86950-3528-04	76



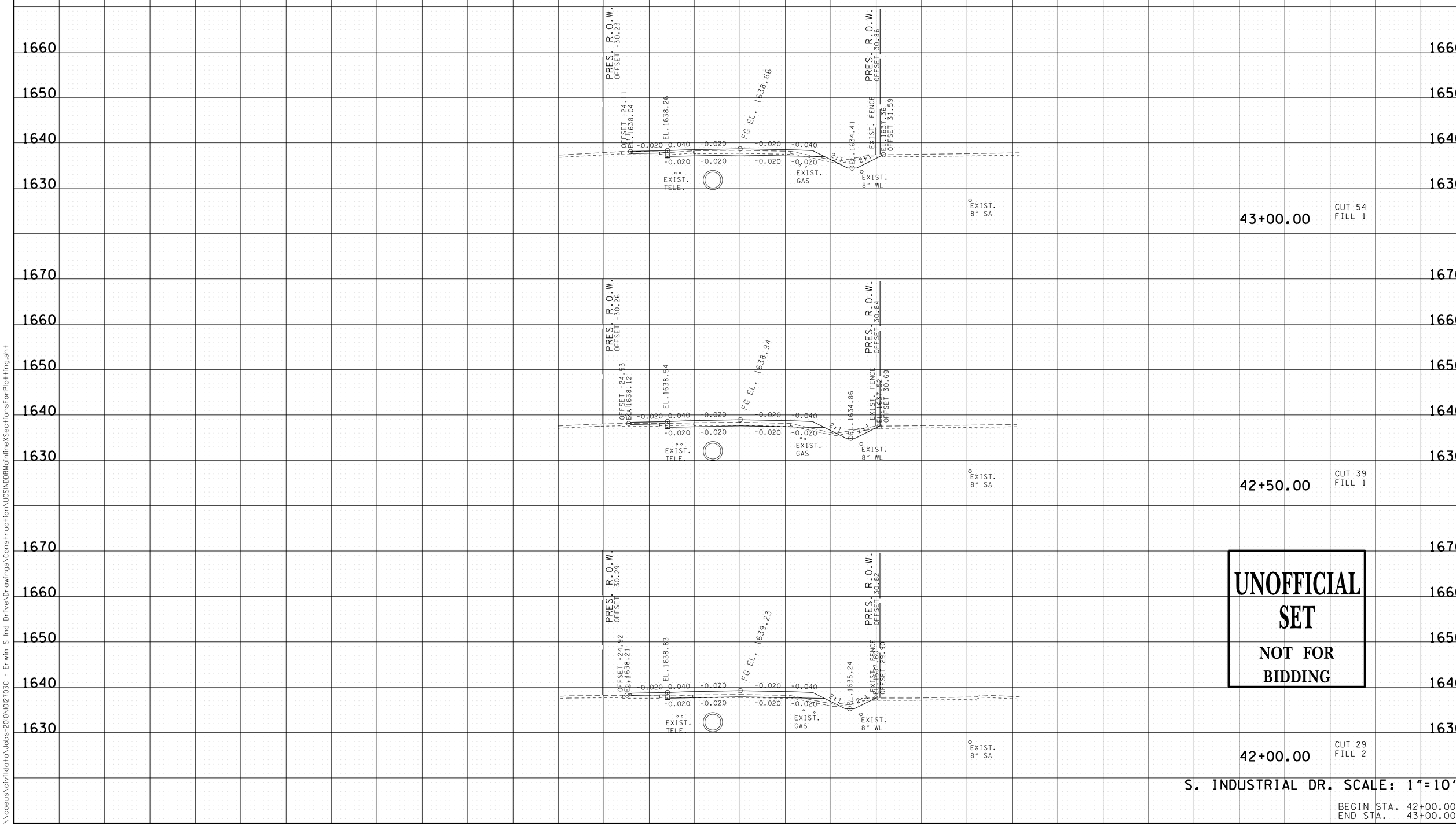
18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	39
CONST.	2014	86950-3528-04	77



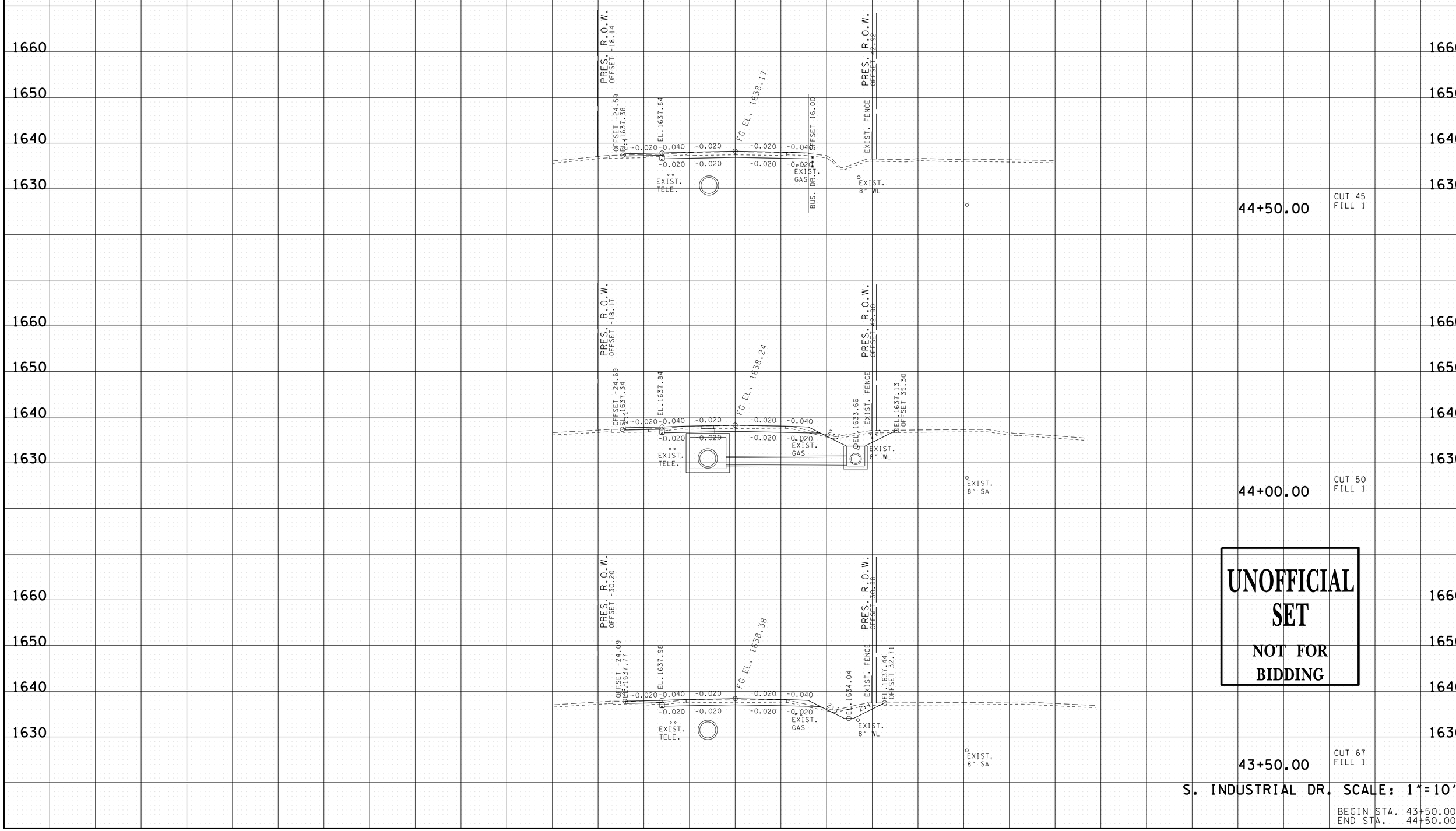
18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	40
CONST.	2014	86950-3528-04	78



18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\UCSNDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	41
CONST.	2014	86950-3528-04	79



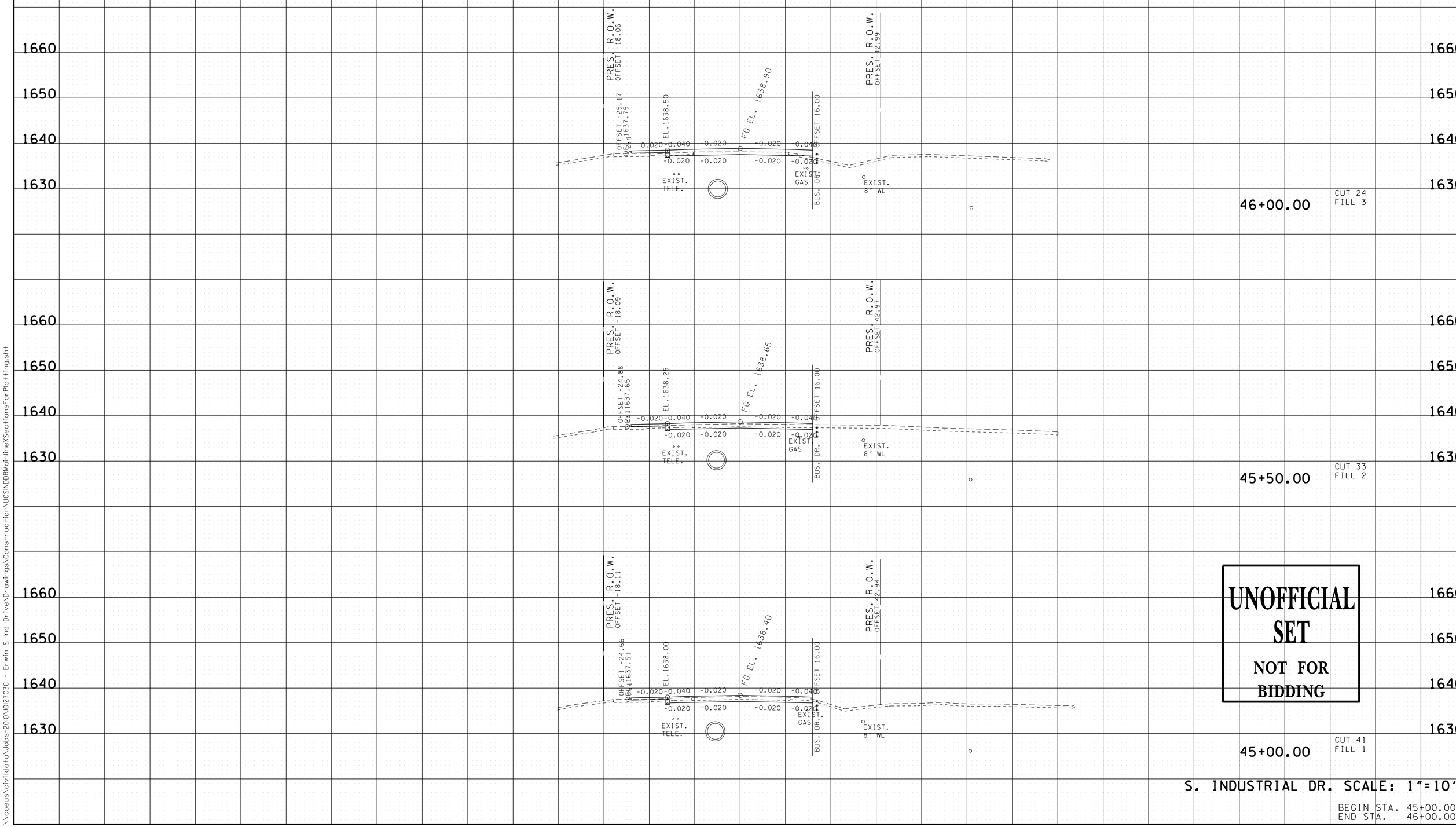
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 43+50.00
END STA. 44+50.00

18-MAR-2014 13:24
\\coeus\civil\data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	42
CONST.	2014	86950-3528-04	80



UNOFFICIAL SET

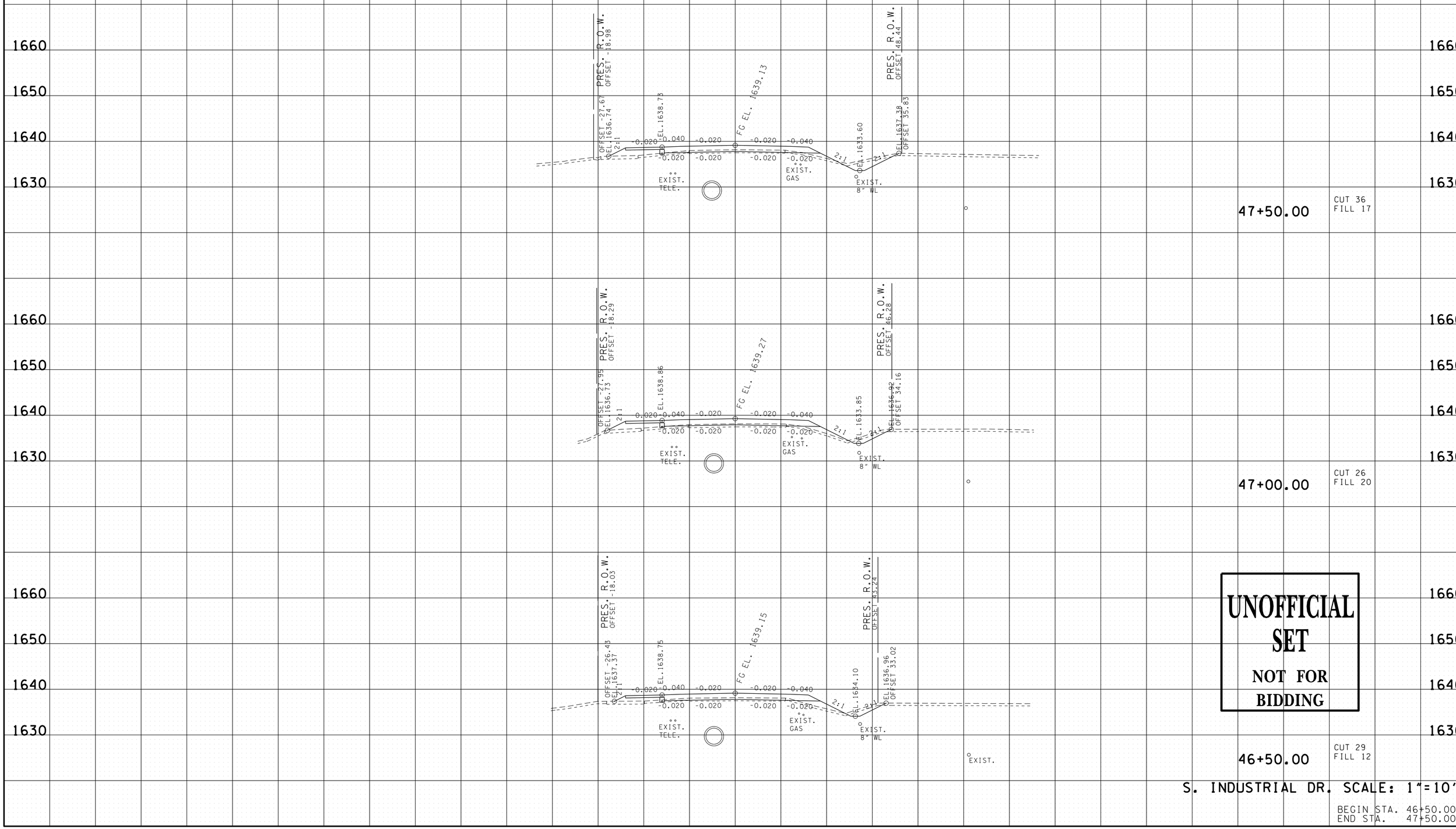
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 45+00.00
END STA. 46+00.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\0127030 - Erwin S Ind Drive\Drawings\Construction\UCSNDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	43
CONST.	2014	86950-3528-04	81



UNOFFICIAL SET

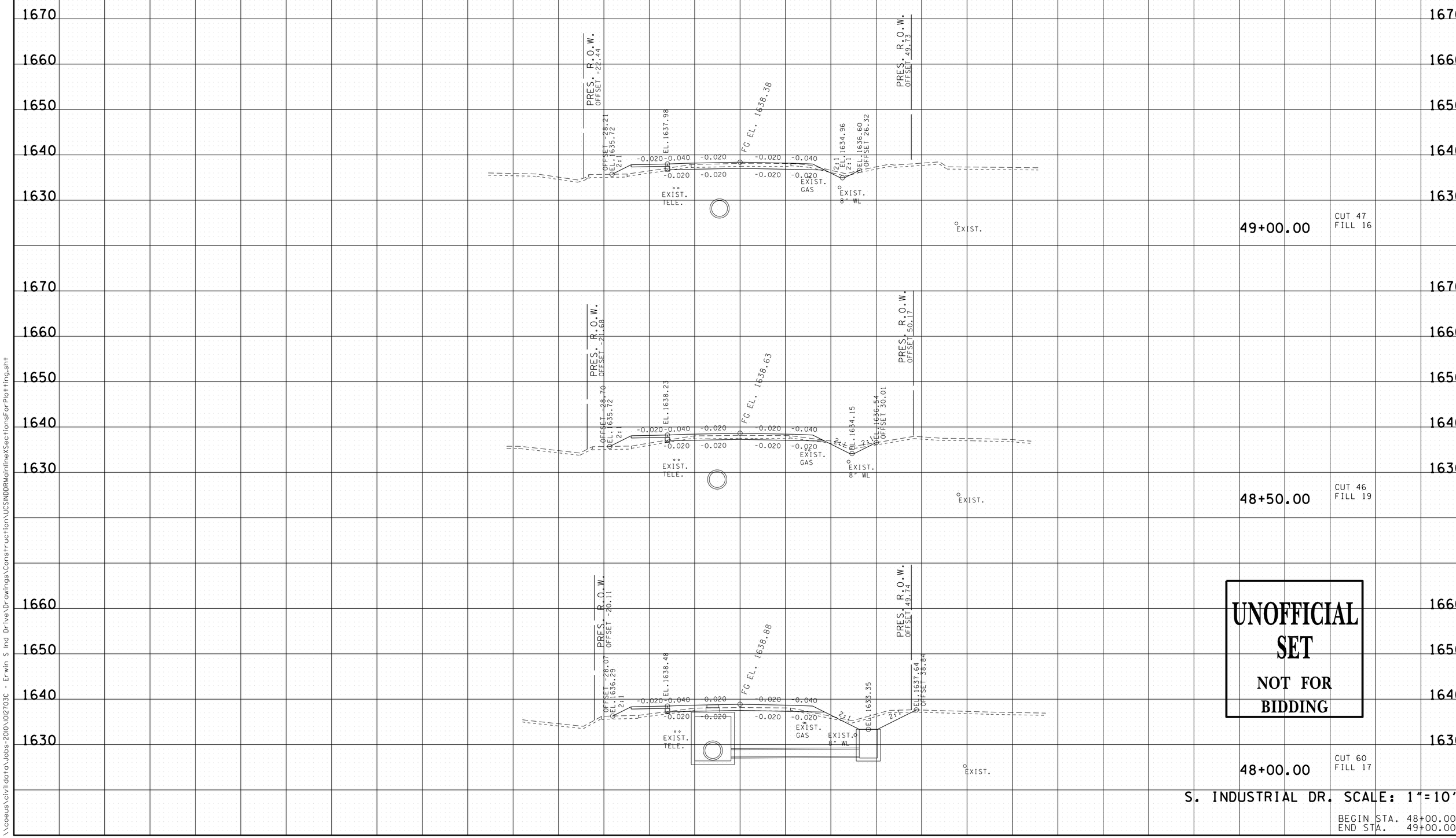
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 46+50.00
END STA. 47+50.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	44
CONST.	2014	86950-3528-04	82



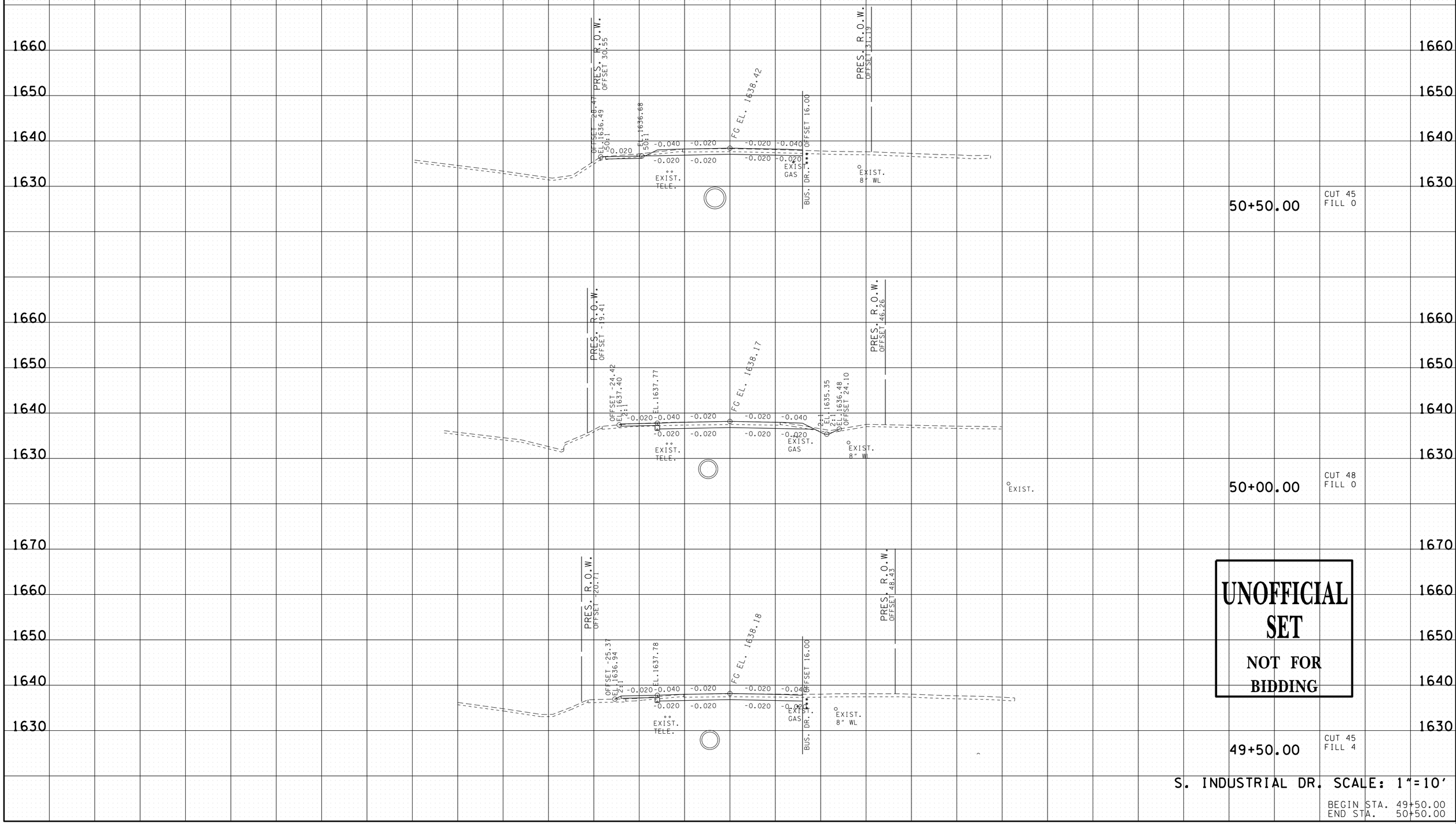
UNOFFICIAL SET
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 48+00.00
END STA. 49+00.00

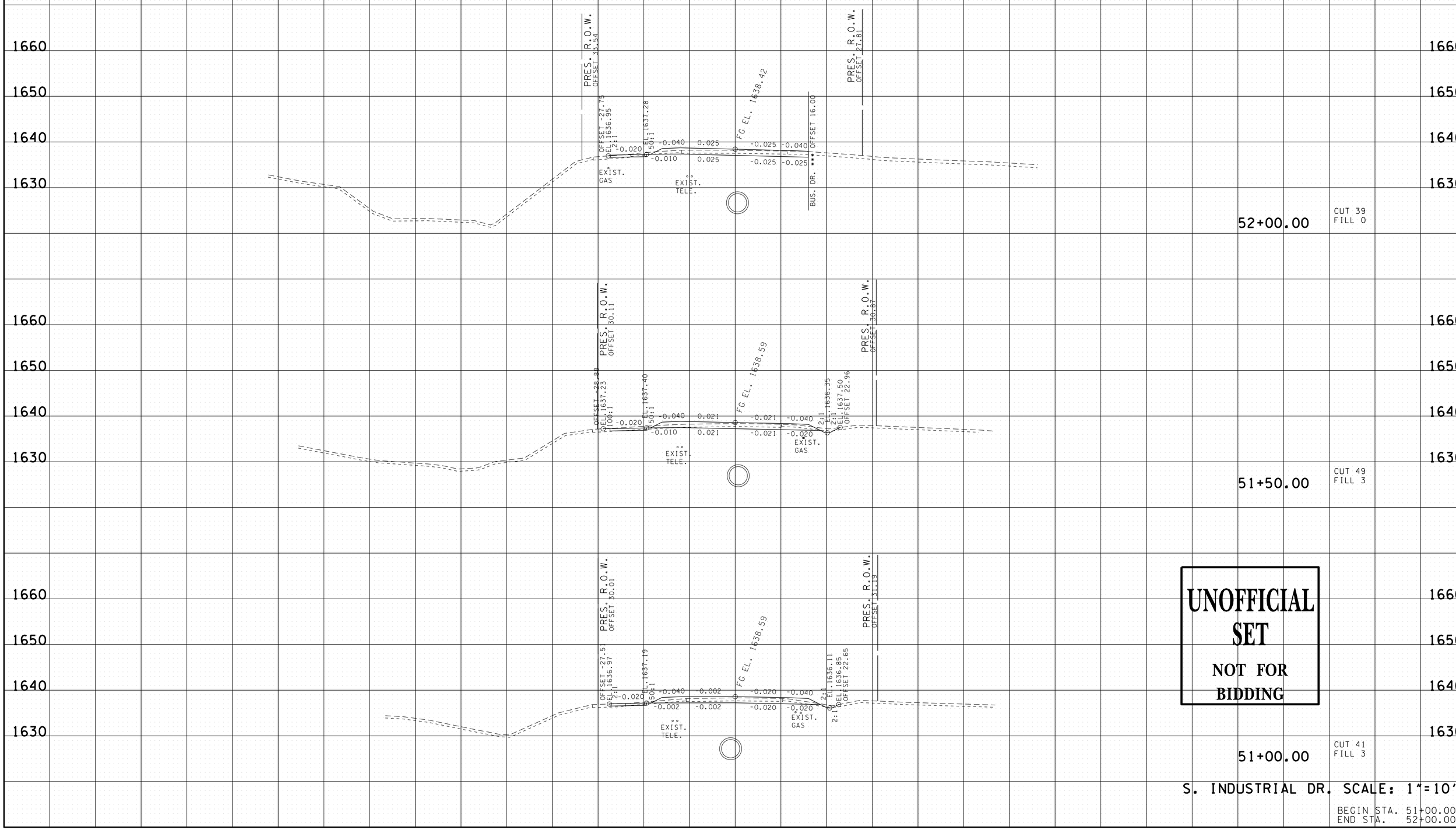
18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\UCSNDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	45
CONST.	2014	86950-3528-04	83



18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\102703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	46
CONST.	2014	86950-3528-04	84



UNOFFICIAL SET

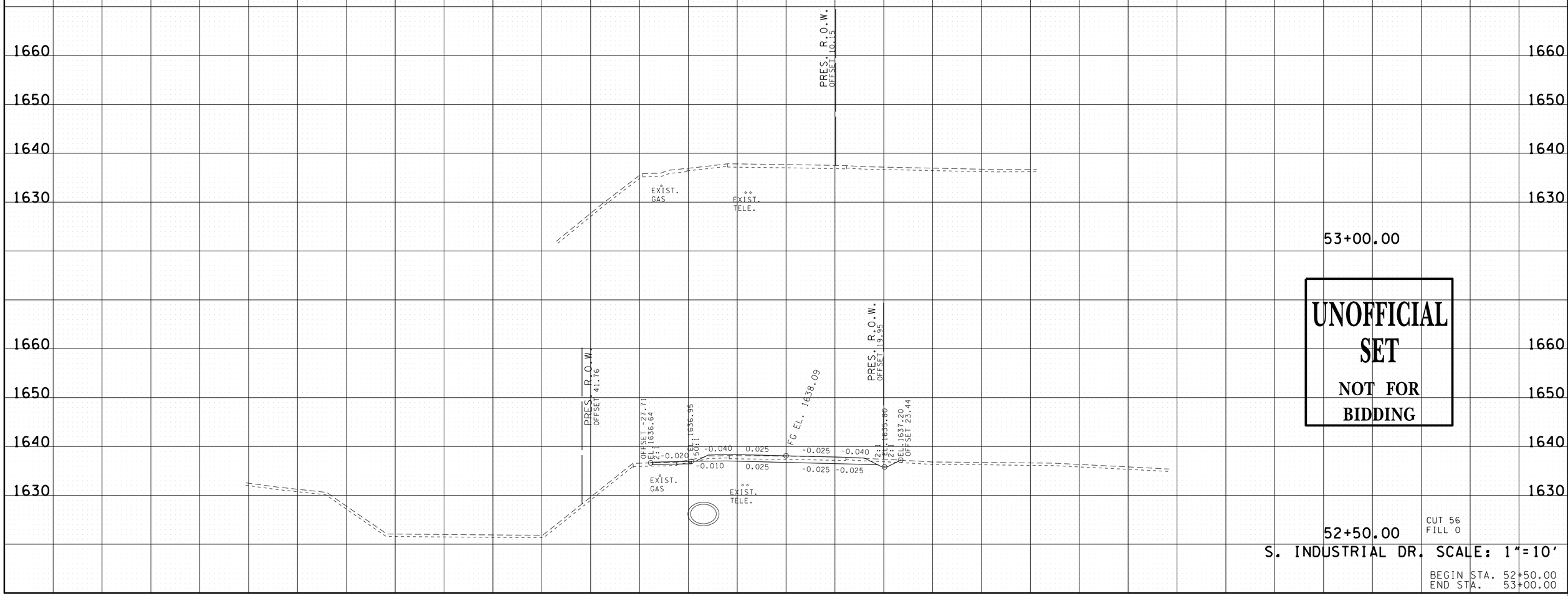
NOT FOR BIDDING

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 51+00.00
END STA. 52+00.00

18-MAR-2014 13:24
\\coeus\civil data\Jobs-2010\012703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	47
CONST.	2014	86950-3528-04	85



UNOFFICIAL SET
NOT FOR BIDDING

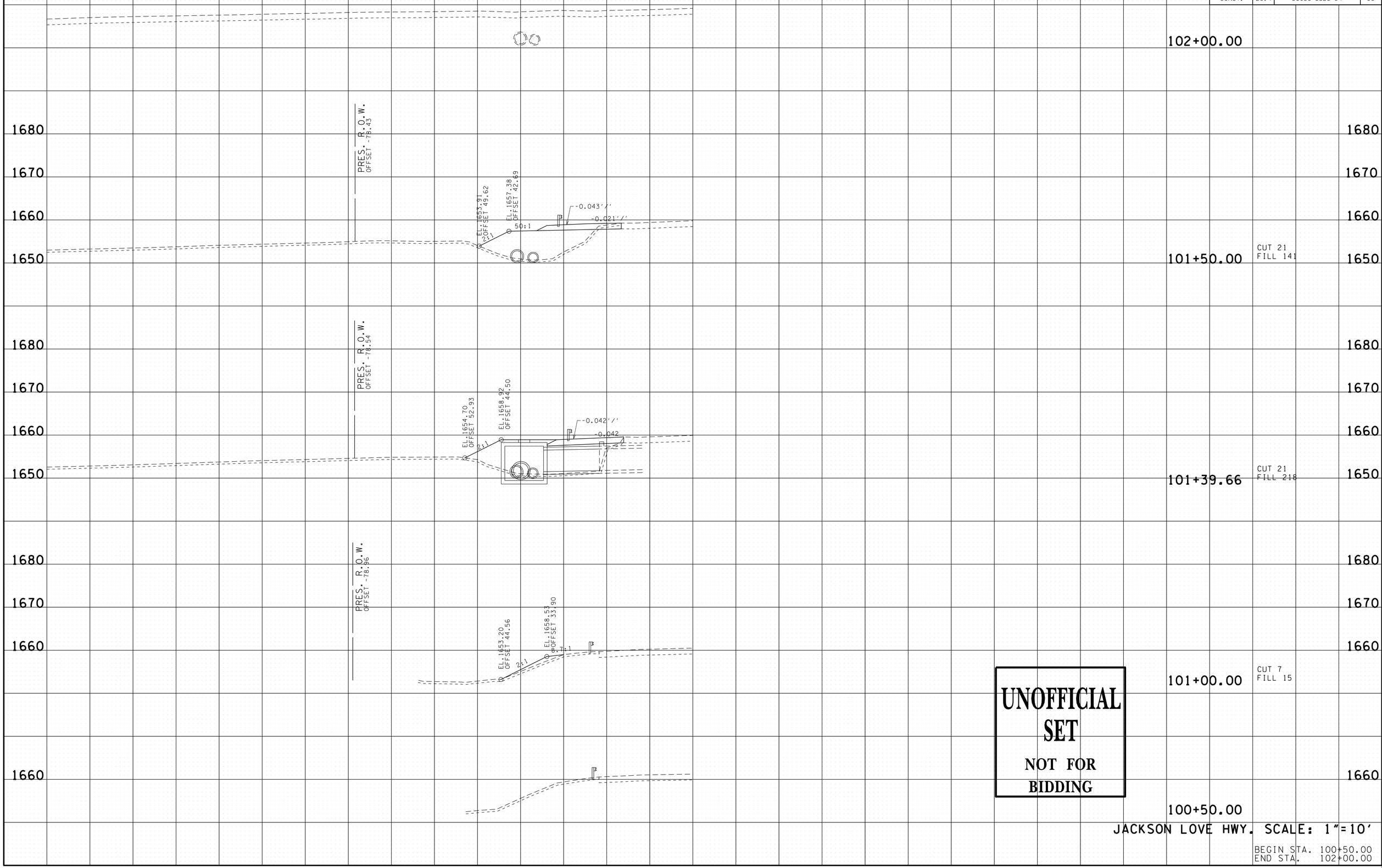
CUT 56
FILL 0

S. INDUSTRIAL DR. SCALE: 1"=10'

BEGIN STA. 52+50.00
END STA. 53+00.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRMainlineXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	48
CONST.	2014	86950-3528-04	86



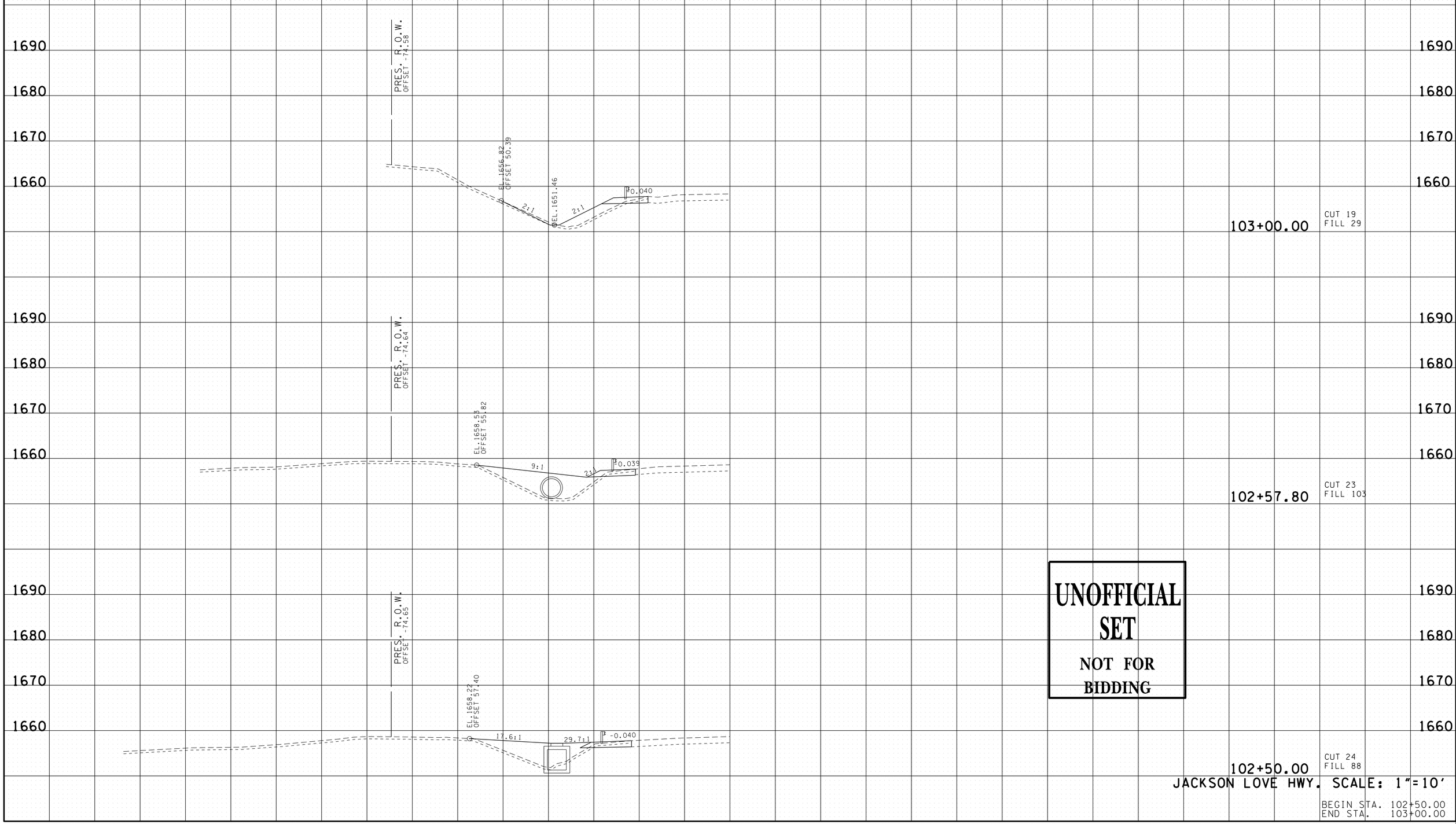
UNOFFICIAL SET
NOT FOR BIDDING

JACKSON LOVE HWY. SCALE: 1"=10'

BEGIN STA. 100+50.00
END STA. 102+00.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDR\JacksonXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	49
CONST.	2014	86950-3528-04	87



UNOFFICIAL SET

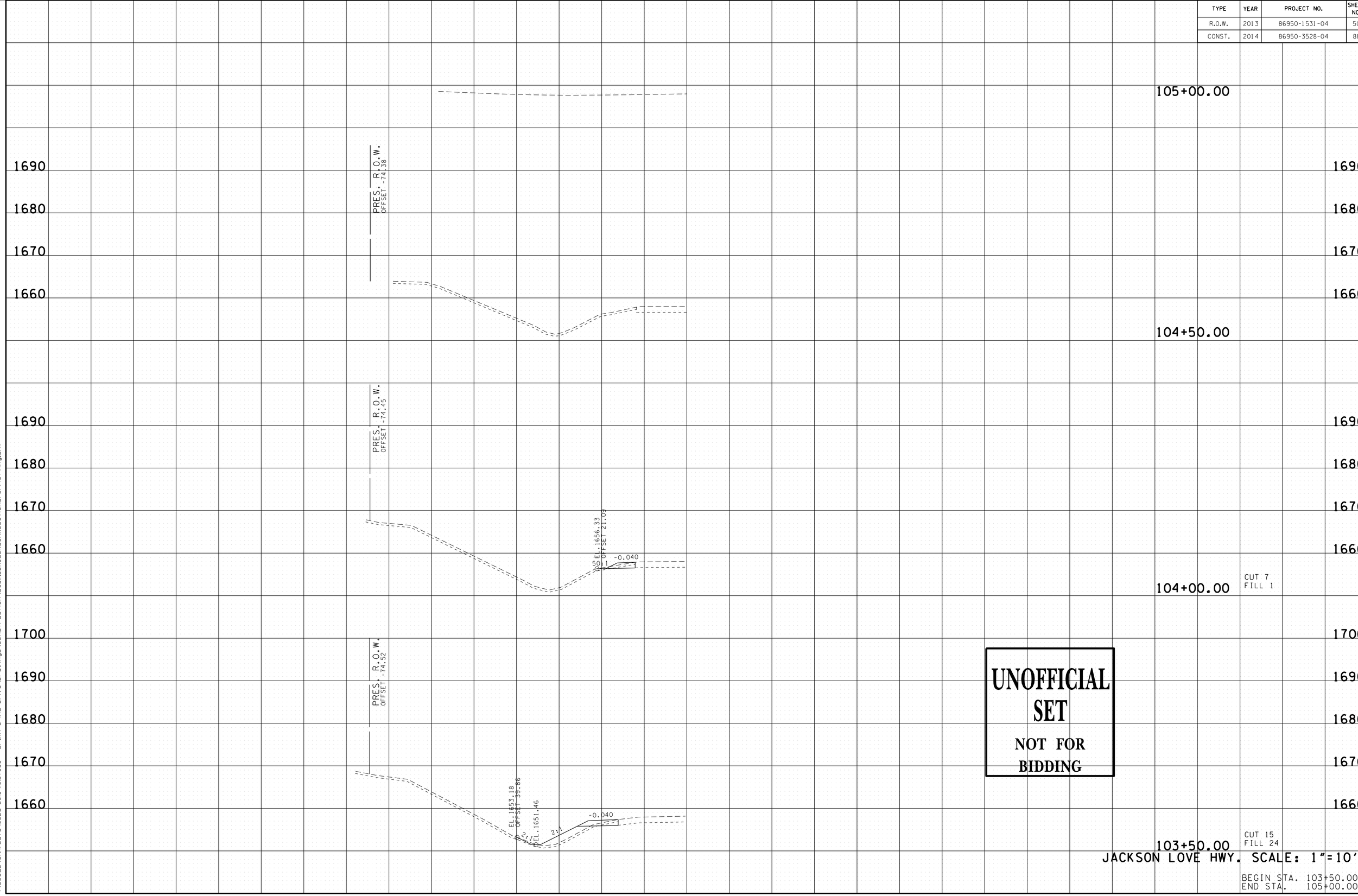
NOT FOR BIDDING

JACKSON LOVE HWY. SCALE: 1"=10'

BEGIN STA. 102+50.00
END STA. 103+00.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\10\2703C - Erwin S Ind Drive\Drawings\Construction\UCSINDDRJacksonXSectionsForPlotting.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	86950-1531-04	50
CONST.	2014	86950-3528-04	88



UNOFFICIAL SET

NOT FOR BIDDING

JACKSON LOVE HWY. SCALE: 1"=10'

BEGIN STA. 103+50.00
END STA. 105+00.00

18-MAR-2014 13:24
\\coeus\civildata\Jobs-2010\0\02703C - Erwin S Ind Drive\Drawings\Construction\UCSNDDRJacksonXSectionsForPlotting.sht