

STATE OF OKLAHOMA
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED

INTERSTATE HIGHWAY
FEDERAL AID PROJECT NO. NHPP1-3500-(062)SS
GRADING, DRAINAGE & SURFACING PLANS
I-40; I-35; I-235 INTERCHANGE
OKLAHOMA COUNTY

CONTROL SECTION NO. 35-55-15
STATE JOB NO. 30444(06)

POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB NO.	PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.					
DESCRIPTION		REVISIONS		DATE		

INDEX OF SHEETS

NO.	DESCRIPTION
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9.	SUMMARY OF PAY QUANTITIES & NOTES (SIGNING & STRIPING)
10.	SUMMARY OF PAY QUANTITIES & NOTES (TRAFFIC OPERATIONS)
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21.	LINE 4 SLOPEWALL "C" FOOTING & MOMENT SLAB DETAILS
22.	NORTHBOUND I-35 SOUTH ABUTMENT SLOPEWALL "D" DETAILS
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54.	TRAFFIC CONTROL PLAN PHASE II
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X1.-X104.	CROSS SECTIONS

THE FOLLOWING STANDARD DRAWINGS WILL BE NEEDED

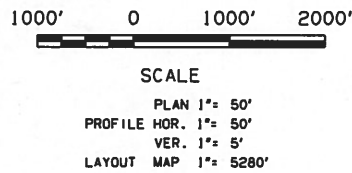
ROADWAY:	TRAFFIC:	BRIDGE:
SSS-1-1	THR1-1-02	FGS2-1-01
TSC2-3-2	SKT-1-00	IA1-1-00
TS2-2-0	GHW1-1-00	MPP1-1-00
TFL-1-1	GHW2-1-00	TCS1-1-01
CSCD-5-3	GA31-1-00	TCS2-1-00
LECS-4-1	PM4-1-01	TCS5-1-00
PED-3-2	PM6-1-00	TCS6-1-02
PSE-1-0	WSD2-1-00	TCS9-1-01
PCES-4-1	SIS3-1-01	TCS14-1-00
SPI-4-1	SBS1-1-00	TCS18-1-01
SPB-1-4	SBS2-1-00	TCS19-1-01
FHTCP-3-1	GMS1-1-00	TCS20-1-00
PUD-3-2	SSP1-1-02	TCS21-1-02
CLB-1-2	SSA1-1-00	
DC-3-2	SSA2-1-00	
PDT-1-3	FGS1-1-00	

LINE 3
DESIGN DATA

ADT- (2017) =	21,537
ADT- (2047) =	29,943
T (%ADT) =	19%
T ₃ (%ADT) =	13%
V =	50 MPH

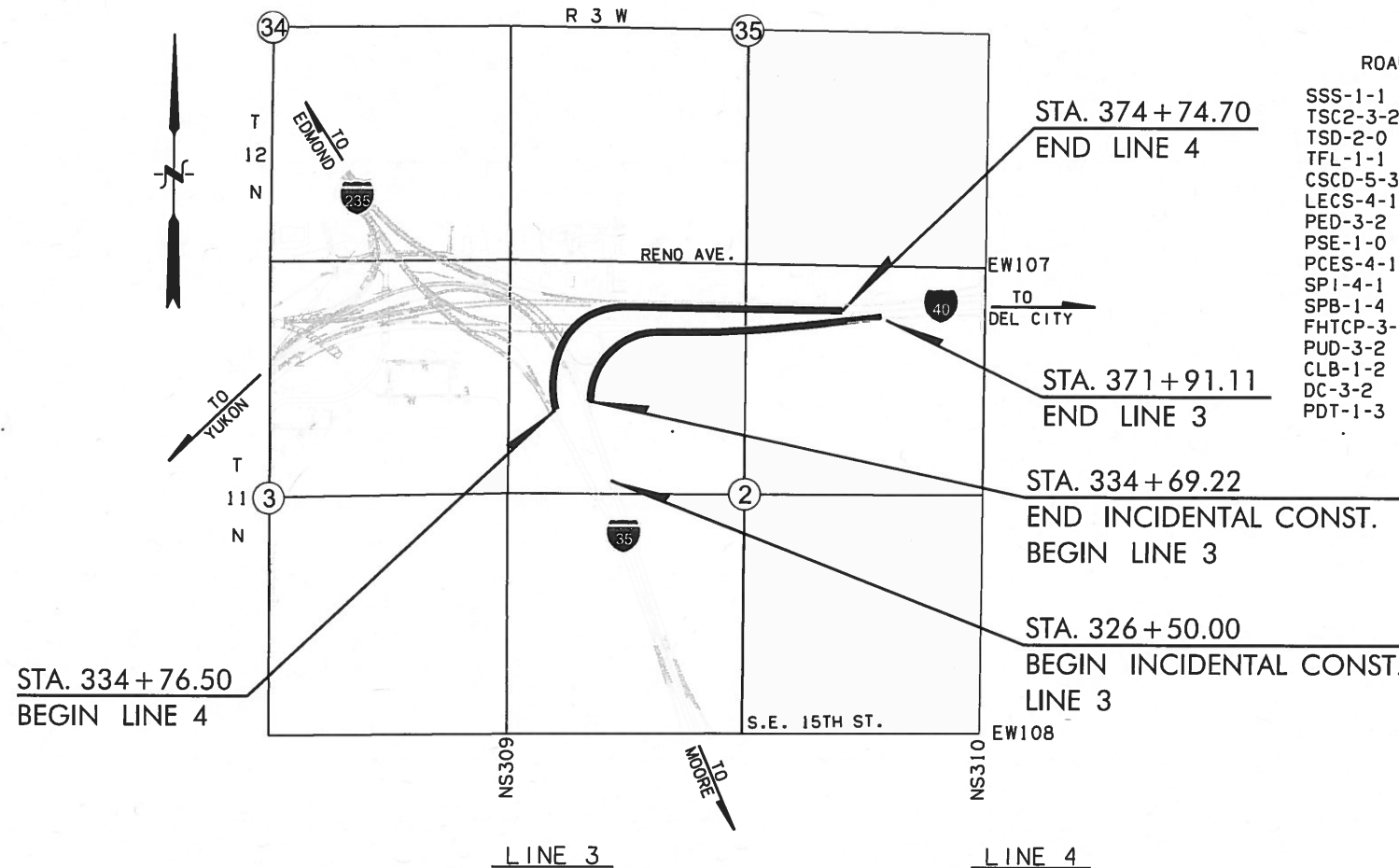
LINE 4
DESIGN DATA

ADT- (2017) =	21,537
ADT- (2047) =	29,943
T (%ADT) =	20%
T ₃ (%ADT) =	13%
V =	50 MPH



CONVENTIONAL SIGNS

- INTERSTATE HIGHWAY
- U.S. HIGHWAY
- STATE HIGHWAY
- PROPOSED ROAD
- RAILROADS
- RANGE & TOWNSHIP LINES
- SECTION LINES
- QUARTER SECTION LINES
- FENCES
- GROUND LINE
- EXISTING ROADS
- BASE LINE
- GRADE LINES
- TELEPHONE & TELEGRAPH
- POWER LINES
- OIL WELLS
- BUILDINGS
- DRAINAGE STRUCTURES-IN-PLACE
- DRAINAGE STRUCTURES-NEW
- RIGHT-OF-WAY LINES-EXISTING
- RIGHT-OF-WAY LINES-NEW
- RIGHT-OF-WAY MARKERS-IN PLACE
- RIGHT-OF-WAY MARKERS-REMOVE & RESET
- RIGHT-OF-WAY MARKERS-NEW
- CONTROLLED ACCESS
- EXISTING SANITARY SEWERS
- EXISTING GAS LINES
- EXISTING WATER LINES
- EXISTING TELEPHONE CABLES UNDERGROUND



	LINE 3	LINE 4
ROADWAY LENGTH	3,721.89 FT. 0.704 MI.	3,998.20 FT. 0.757 MI.
BRIDGE LENGTH	0.00 FT. 0.000 MI.	0.00 FT. 0.000 MI.
PROJECT LENGTH	0.758 MI.	0.703 MI.

EQUATION - NONE
EXCEPTIONS - NONE

PREPARED AND SUBMITTED BY:

POE & ASSOCIATES INC.
Oklahoma City, Oklahoma
CA NO. 841

MATTHEW D. BROWN, P.E.
OKLA. REG. NO. 23095
DATE Sept. 01, 2017

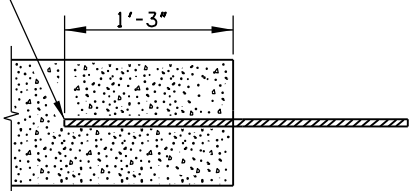
TIMOTHY RAY PURKEYPILE, P.E.
OKLA. REG. NO. 16021
DATE Sept. 01, 2017

OKLAHOMA DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
DATE APPROVED _____	DATE APPROVED _____
BY _____ CHIEF ENGINEER	BY _____ DIVISION ADMINISTRATOR
FEDERAL AID PROJECT NO. NHPP1-3500-(062)SS SHEET NO. 1	

NOTE:
TIE BARS WILL BE EPOXIED INTO DRILL HOLES WITH SUFFICIENT EPOXY TO COMPLETELY FILL THE VOID BETWEEN THE TIE BAR AND THE HOLE (SEE SECTION 509.04(d)3 OF THE STD. SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, CSCD-5 & PCPR-3). ALL ASSOCIATED COST TO CONSTRUCT CURB, UNLESS OTHERWISE NOTED, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "P.C. CONCRETE FOR PAVEMENT".

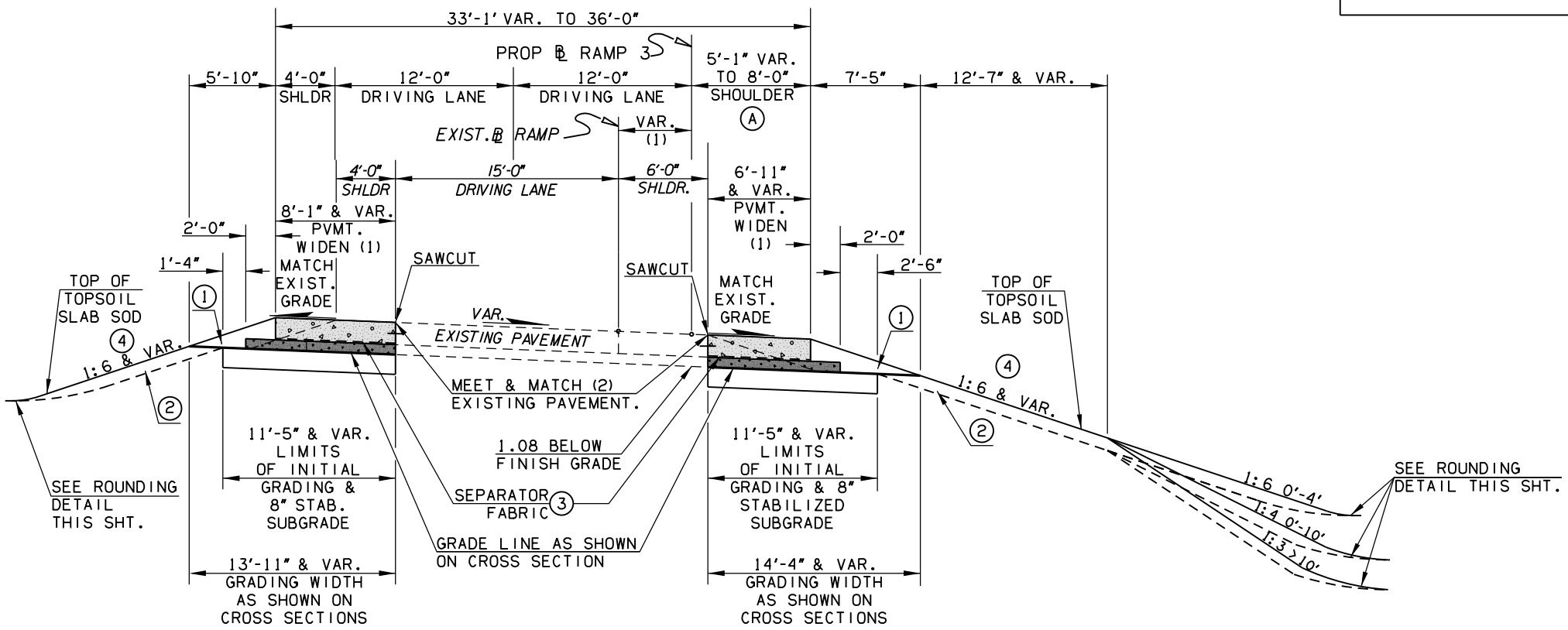
NOTE:
JOINTS TO BE CLEANED & CONNECTED WITH TIE BARS TO EXISTING CONCRETE PAVING STRUCTURE.

NO. 5 DEF. TIE BAR SPACED @ 3'-0" C/C MAY BE PRE-BENT 90° AND PLACED INTO EDGE OF SLAB AND POSITIONED BEFORE OR DURING SLIP FORM OPERATIONS AND THEN STRAIGHTENED BEFORE PAVING THE ADJACENT PARALLEL LANE. STRAIGHT BARS MAY ALSO BE PLACED THROUGH DRILLED HOLES IN FORMS PRIOR TO PAVING.



TIED LONGITUDINAL BUTT JOINT
(TO BE USED BETWEEN ADJACENT PAVING LANES)

NOTE:
LONGITUDINAL BUTT JOINT TIE BAR STEEL AND PLACEMENT METHOD SHALL BE APPROVED BY THE ENGINEER.



TYPICAL RAMP SECTION - LINE 3

STA. 334+69.22 TO STA. 340+47.77

(1) DISTANCE VARIES SEE CROSS SECTIONS.

(2) THE PROPOSED CONSTRUCTION SHALL MATCH THE EXISTING PAVEMENT BOTH HORIZONTALLY AND VERTICALLY.

PC CONCRETE REQUIREMENT	
13' PAVT. STRUCTURE	
SURFACE COURSE	9.0" DOWEL JOINTED PC CONCRETE
BASE COURSES	4.0" CEMENT TREATED BASE

SEGMENT	WIDTH	EXTENTS
A	TRANS. 5'-1" TO 8'-0"	STA. 335+02.74 TO STA. 336+00.00
A	8'-0"	STA. 336+00.00 TO STA. 340+47.77

① BACKFILL NOTE:
THIS AREA TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN UNCLASSIFIED BORROW.

② TOPSOIL NOTE:
THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL.

③ SEPARATOR FABRIC:
SHALL BE 15 OZ/S.Y., AS DIRECTED BY SPECIAL PROVISION 317 CEMENT TREATED BASE. COST SHALL BE INCLUDED IN PRICE BID FOR CEMENT TREATED BASE.

④ SEE CROSS SECTIONS.

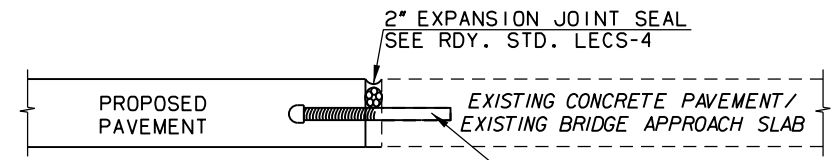
DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

TYPICAL SECTIONS
SHEET 1 OF 6

STATE JOB NO. 30444(06) SHEET NO. 2

OKLAHOMA COUNTY

DIRECTION OF CONSTRUCTION/TRAFFIC

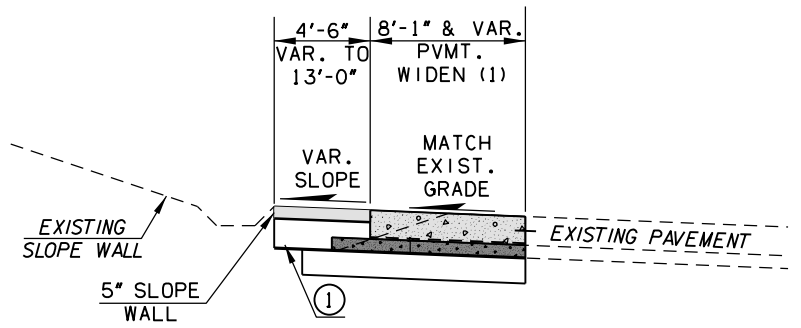
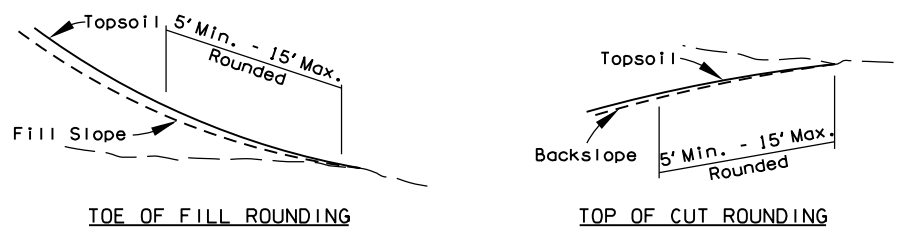


TERMINAL JOINT BETWEEN CONTRACTS

DOWEL BARS SHALL BE EPOXIED (NON-CAPPED END) INTO 1 3/8" DIA. (MAX.) BY 9" DEEP DRILLED HOLES, SPACED AT 1'-0" CTRS., PLACED AT MID-SLAB. DRILLED HOLES AND DOWEL BARS SHALL BE PLACED PARALLEL TO THE DRIVING SURFACE. SUFFICIENT EPOXY SHALL BE USED TO COMPLETELY FILL THE VOID BETWEEN THE DOWEL BAR AND THE HOLE.

ROUNDING DETAIL

Intersection Of Cut And/Or Fill Slopes With Ground Line To Be Rounded As Part Of Finishing Operations. Rounding Shall Be 5' Minimum For Smaller Cuts And Fills To 15' Maximum For Larger Cuts And Fills Or As Designated By The Engineer. Cost Of Rounding To Be Included In Price Bid For Other Items Of Work.



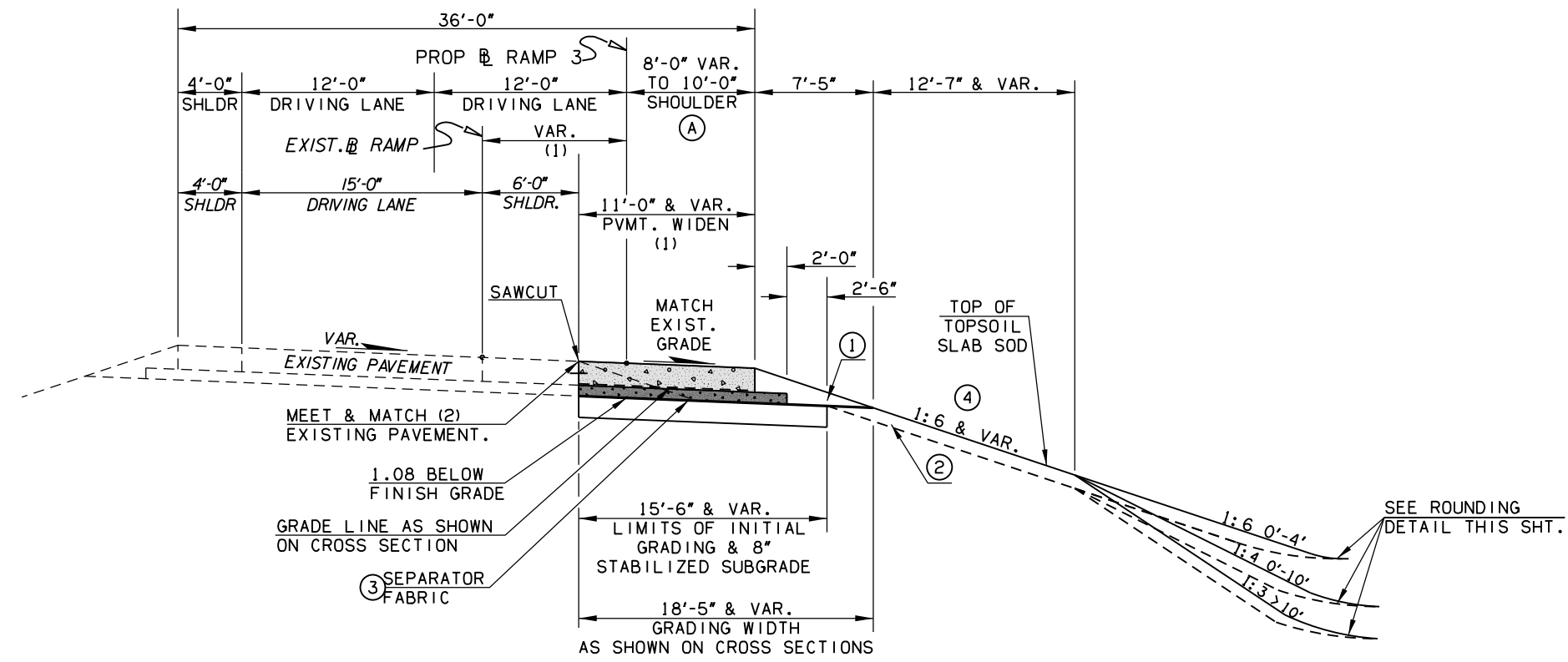
DETAIL OF SLOPE WALL "A" CONNECTION

STA. 338+41.12 TO STA. 340+47.77

(1) DISTANCE VARIES SEE CROSS SECTIONS.

SEE SLOPEWALL DETAIL SHEET NO. 19

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TYPICAL RAMP SECTION - LINE 3

STA. 340+47.77 TO STA. 346+70.26

(1) DISTANCE VARIES SEE CROSS SECTIONS.

(2) THE PROPOSED CONSTRUCTION SHALL MATCH THE EXISTING PAVEMENT BOTH HORIZONTALLY AND VERTICALLY.

PC CONCRETE REQUIREMENT	
13' PAVT. STRUCTURE	
SURFACE COURSE	9.0" DOWEL JOINTED PC CONCRETE
BASE COURSES	4.0" CEMENT TREATED BASE

SEGMENT	WIDTH	EXTENTS
A	8'-0"	STA. 340+47.77 TO STA. 345+00.00
A	TRANS. 8'-0" TO 10'-0"	STA. 345+00.00 TO STA. 346+70.26

① BACKFILL NOTE:
THIS AREA TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN UNCLASSIFIED BORROW.

② TOPSOIL NOTE:
THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

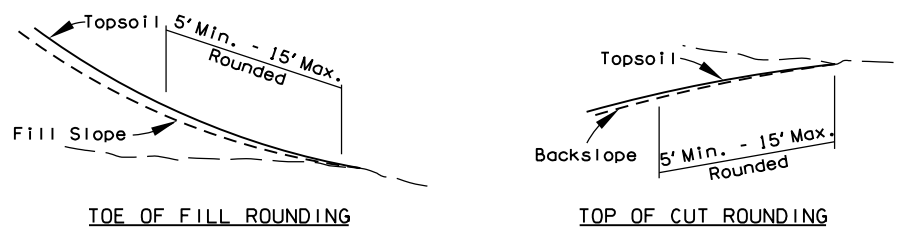
THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL.

③ SEPARATOR FABRIC:
SHALL BE 15 OZ/S.Y., AS DIRECTED BY SPECIAL PROVISION 317 CEMENT TREATED BASE. COST SHALL BE INCLUDED IN PRICE BID FOR CEMENT TREATED BASE.

④ SEE CROSS SECTIONS.

ROUNDING DETAIL

Intersection Of Cut And/Or Fill Slopes With Ground Line To Be Rounded As Part Of Finishing Operations. Rounding Shall Be 5' Minimum For Smaller Cuts And Fills To 15' Maximum For Larger Cuts And Fills Or As Designated By The Engineer. Cost Of Rounding To Be Included In Price Bid For Other Items Of Work.



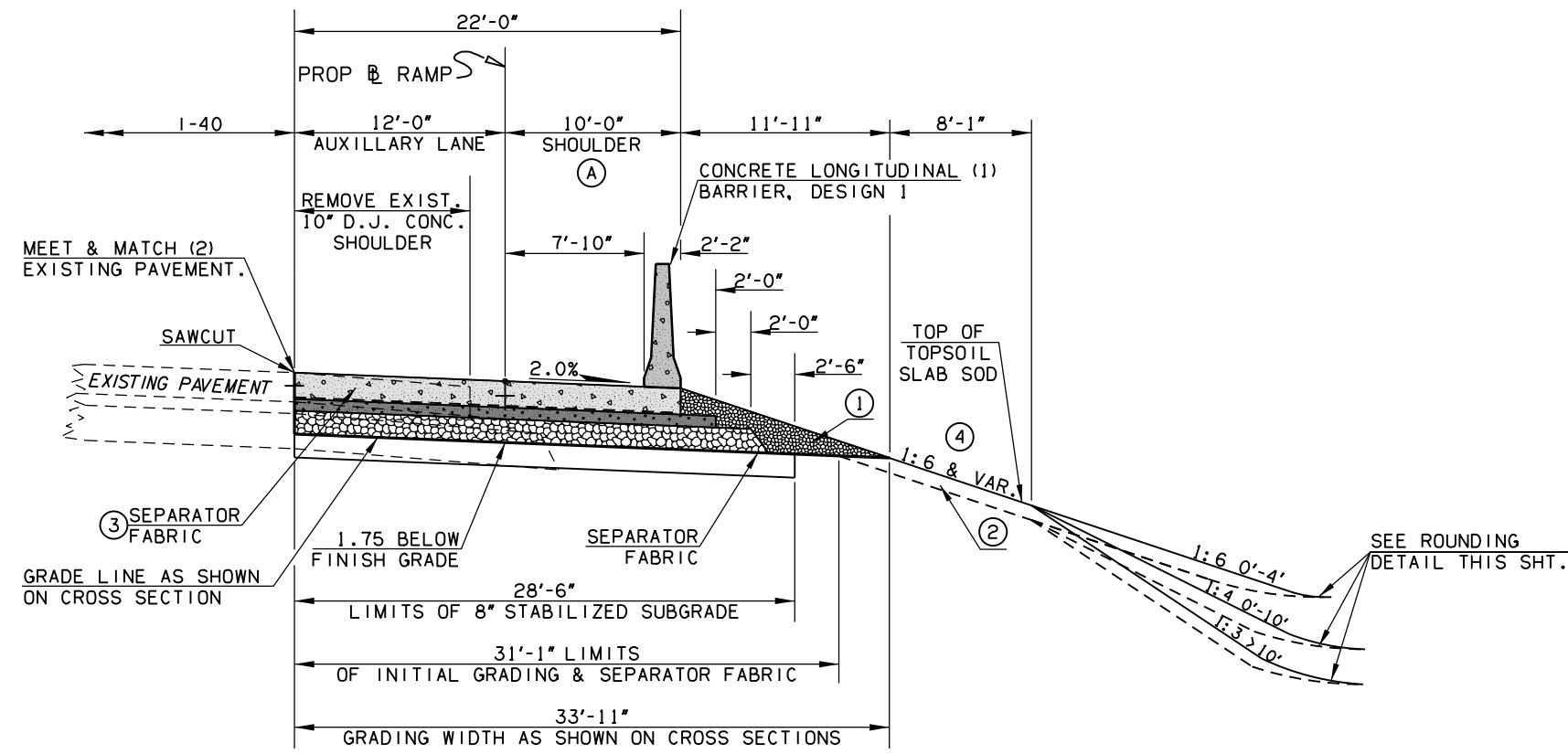
DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

**TYPICAL SECTIONS
SHEET 2 OF 6**

STATE JOB NO. 30444(06) SHEET NO. 3

OKLAHOMA COUNTY

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TYPICAL SECTION - I-40

EASTBOUND I-40 - STA. 346+70.26 TO STA. 371+91.11

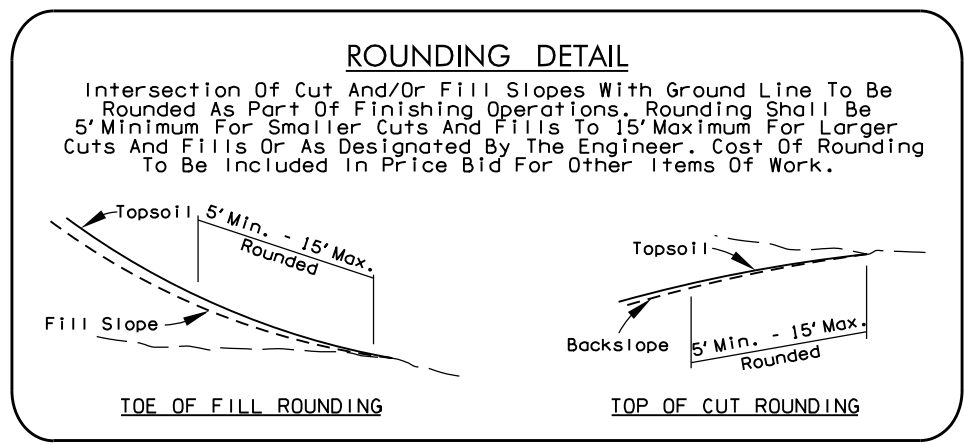
- (1) SEE PLAN AND PROFILE SHEETS FOR LOCATIONS
- (2) THE PROPOSED CONSTRUCTION SHALL MATCH THE EXISTING PAVEMENT BOTH HORIZONTALLY AND VERTICALLY.

PC CONCRETE REQUIREMENT		
26' PAVT. STRUCTURE	DRIVING LANES	PAVED SHOULDERS
SURFACE COURSE	9.0" DOWEL JOINTED PC CONCRETE	9.0" PC CONCRETE
BASE COURSES	4.0" CEMENT TREATED BASE	4.0" CEMENT TREATED BASE
	8.0" AGGREGATE BASE TYPE A	8.0" AGGREGATE BASE TYPE A

SEGMENT	WIDTH	EXTENTS
A	TRANS. 10'-0" TO 6'-8"	STA. 370+00.00 TO STA. 371+91.11

- (1) **BACKFILL NOTE:**
THIS AREA TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN T.B.S.C., TYPE E.
- (2) **TOPSOIL NOTE:**
THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

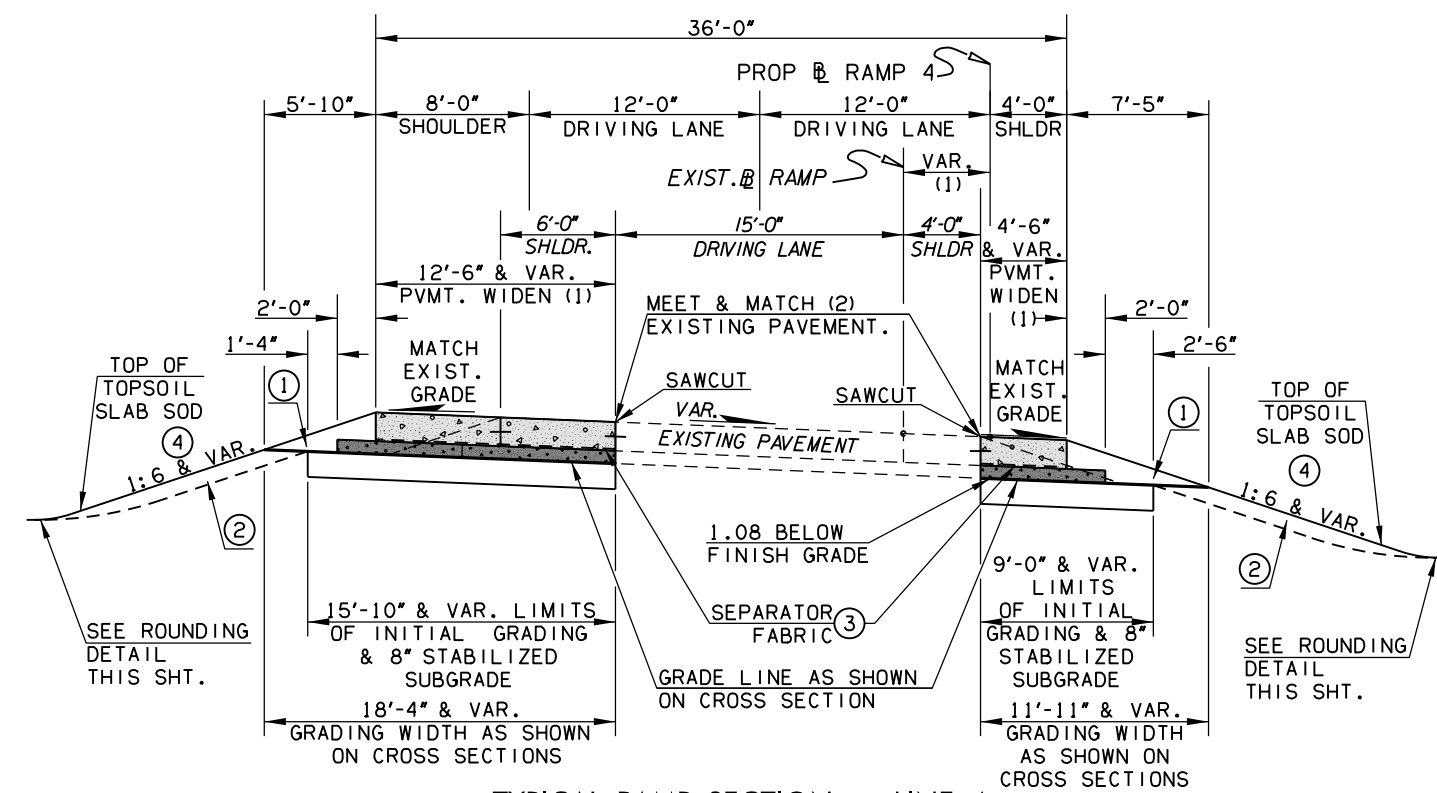
THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL.
- (3) **SEPARATOR FABRIC:**
SHALL BE 15 OZ/S.Y., AS DIRECTED BY SPECIAL PROVISION 317 CEMENT TREATED BASE. COST SHALL BE INCLUDED IN PRICE BID FOR CEMENT TREATED BASE.
- (4) **SEE CROSS SECTIONS.**



DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

**TYPICAL SECTIONS
SHEET 3 OF 6**

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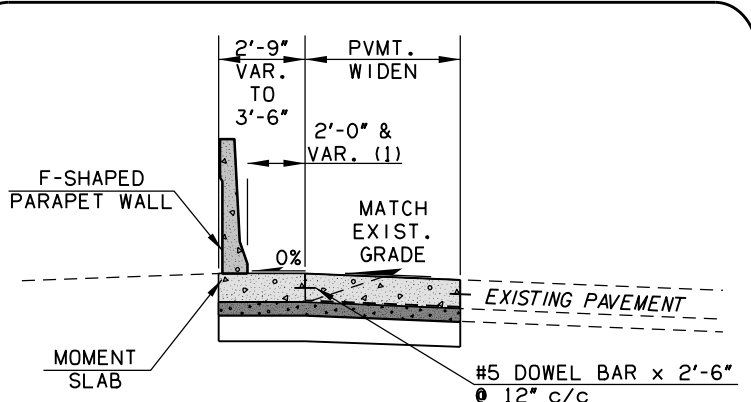


TYPICAL RAMP SECTION - LINE 4

STA. 334+76.50 TO STA. 343+00.00
 (1) DISTANCE VARIES SEE CROSS SECTIONS.

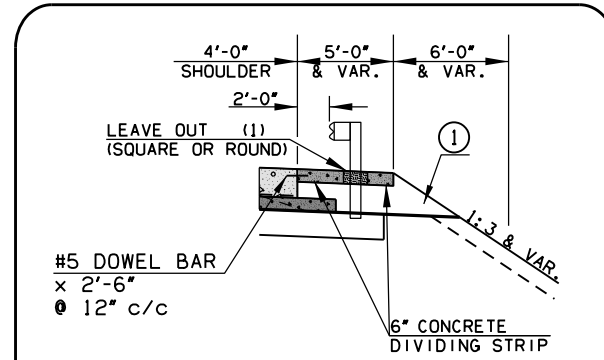
(2) THE PROPOSED CONSTRUCTION SHALL MATCH THE EXISTING PAVEMENT BOTH HORIZONTALLY AND VERTICALLY.

PC CONCRETE REQUIREMENT	
13' PAVT. STRUCTURE	
SURFACE COURSE	9.0" DOWEL JOINTED PC CONCRETE
BASE COURSES	4.0" CEMENT TREATED BASE



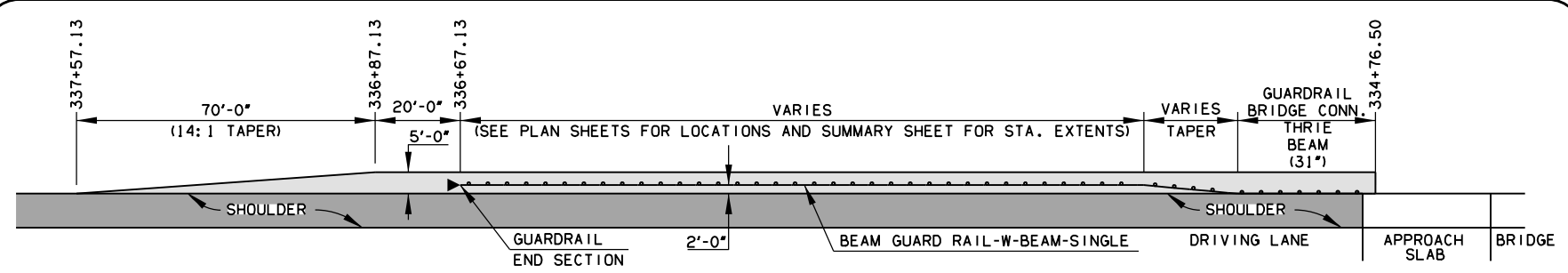
DETAIL OF PARAPET WALL

STA. 341+91.56 TO STA. 343+00.00
 (1) DISTANCE VARIES SEE CROSS SECTIONS.
 SEE MOMENT SLAB DETAIL SHEET NO. 21



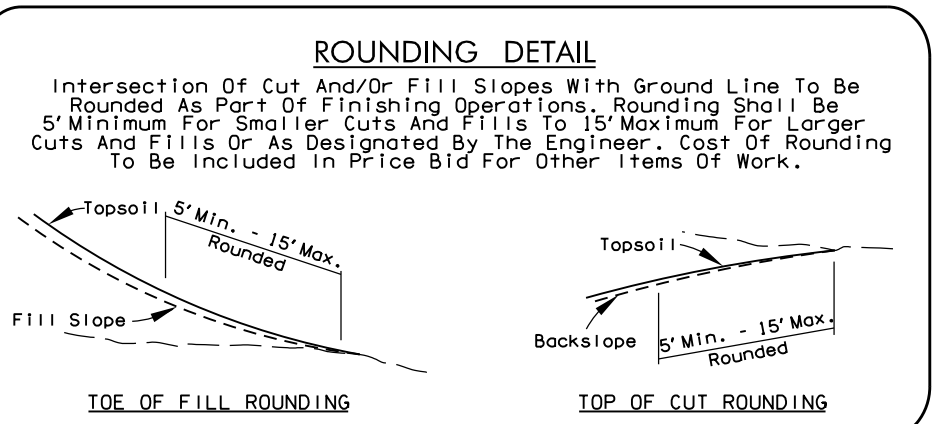
GUARDRAIL WIDENING DETAIL

(1) CENTER POST IN 1'-3" x 1'-3" SQUARE OR CIRCULAR EQUIVALENT. BACKFILL HOLES WITH A MATERIAL APPROVED BY THE RESIDENT ENGINEER.



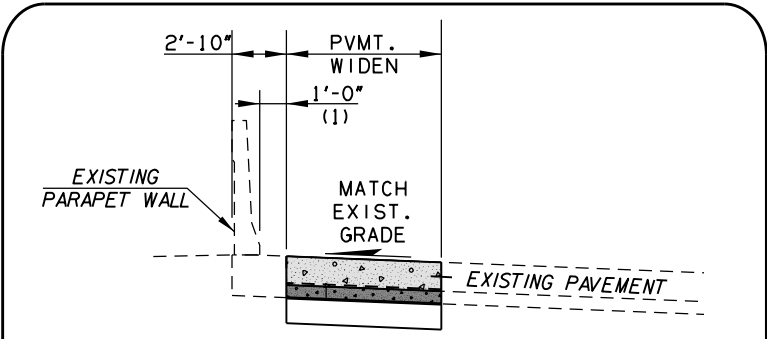
TYPICAL GUARDRAIL WIDENING DETAIL

(FOR DETAILS NOT SHOWN SEE PLAN SHEETS & STD. GBCA-1, GRH1-1, GRH2-1 AND GET-3)
 GUARD RAIL WIDENING SHALL BE 6" CONCRETE DIVIDING STRIP



ROUNDING DETAIL

Intersection Of Cut And/Or Fill Slopes With Ground Line To Be Rounded As Part Of Finishing Operations. Rounding Shall Be 5' Minimum For Smaller Cuts And Fills To 15' Maximum For Larger Cuts And Fills Or As Designated By The Engineer. Cost Of Rounding To Be Included In Price Bid For Other Items Of Work.



DETAIL OF PARAPET WALL CONNECTION

STA. 340+76.35 TO STA. 341+91.56
 (1) DISTANCE VARIES SEE CROSS SECTIONS.

① BACKFILL NOTE:
 THIS AREA TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN UNCLASSIFIED BORROW.

② TOPSOIL NOTE:
 THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

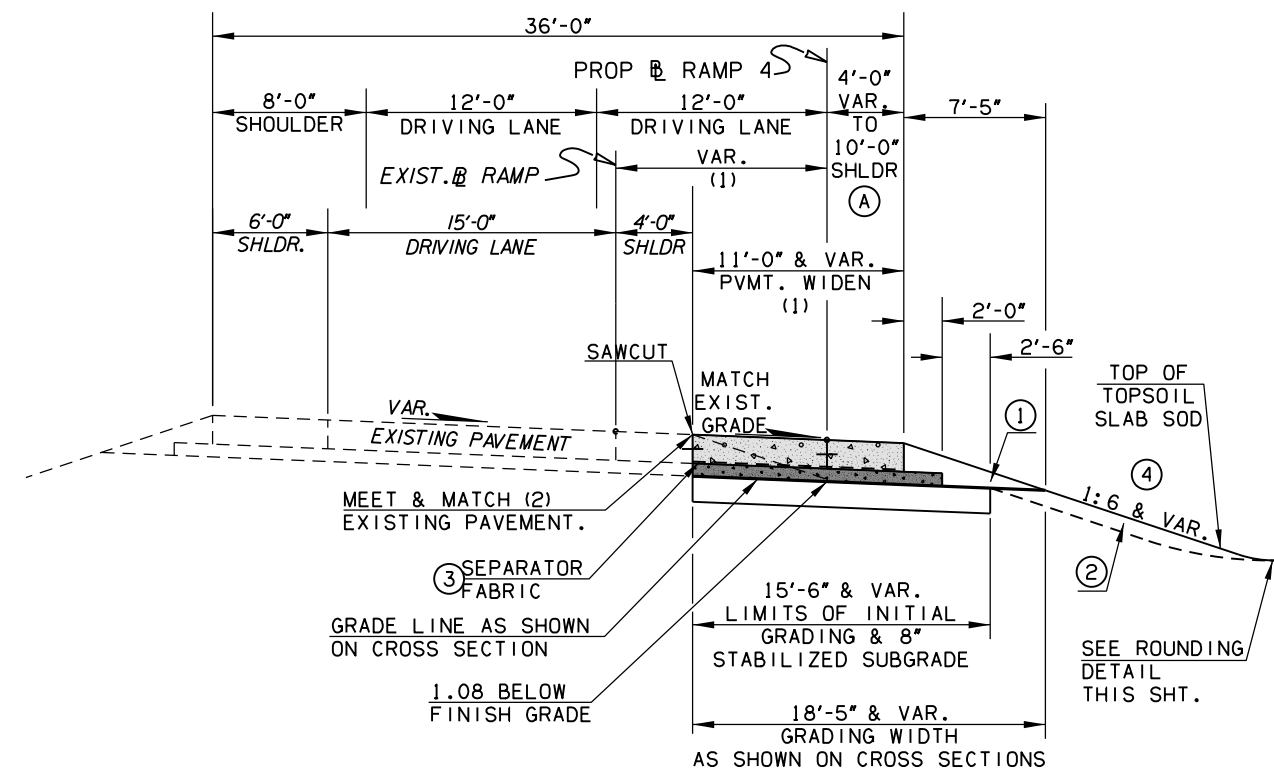
THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL.

③ SEPARATOR FABRIC:
 SHALL BE 15 OZ/S.Y., AS DIRECTED BY SPECIAL PROVISION 317 CEMENT TREATED BASE. COST SHALL BE INCLUDED IN PRICE BID FOR CEMENT TREATED BASE.

④ SEE CROSS SECTIONS.

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

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TYPICAL RAMP SECTION - LINE 4

STA. 343+00.00 TO STA. 350+86.76

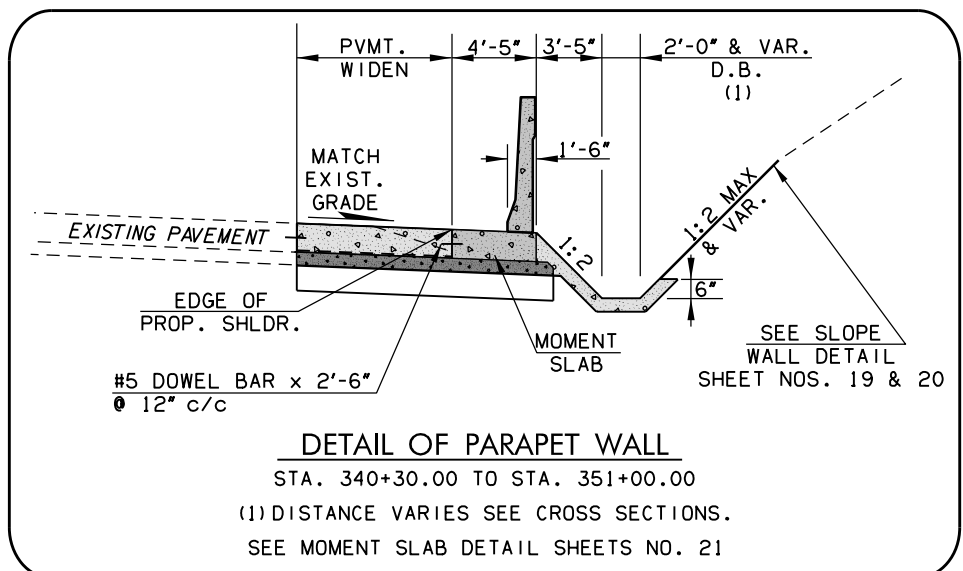
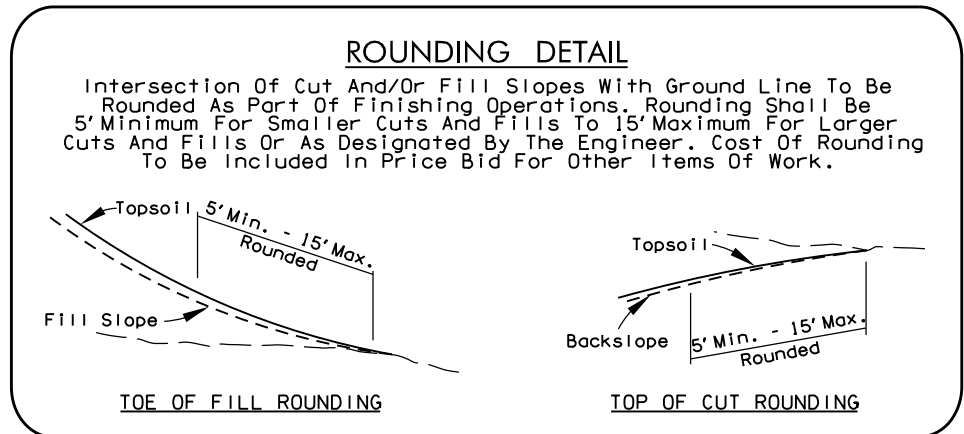
- (1) DISTANCE VARIES SEE CROSS SECTIONS.
- (2) THE PROPOSED CONSTRUCTION SHALL MATCH THE EXISTING PAVEMENT BOTH HORIZONTALLY AND VERTICALLY.

PC CONCRETE REQUIREMENT	
13' PAVT. STRUCTURE	
SURFACE COURSE	9.0" DOWEL JOINTED PC CONCRETE
BASE COURSES	4.0" CEMENT TREATED BASE

SEGMENT	WIDTH	EXTENTS
A	TRANS. 4'-0" TO 10'-0"	STA. 343+00.00 TO STA. 350+86.76

- ① BACKFILL NOTE:
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- ④ SEE CROSS SECTIONS.



DETAIL OF PARAPET WALL

STA. 340+30.00 TO STA. 351+00.00

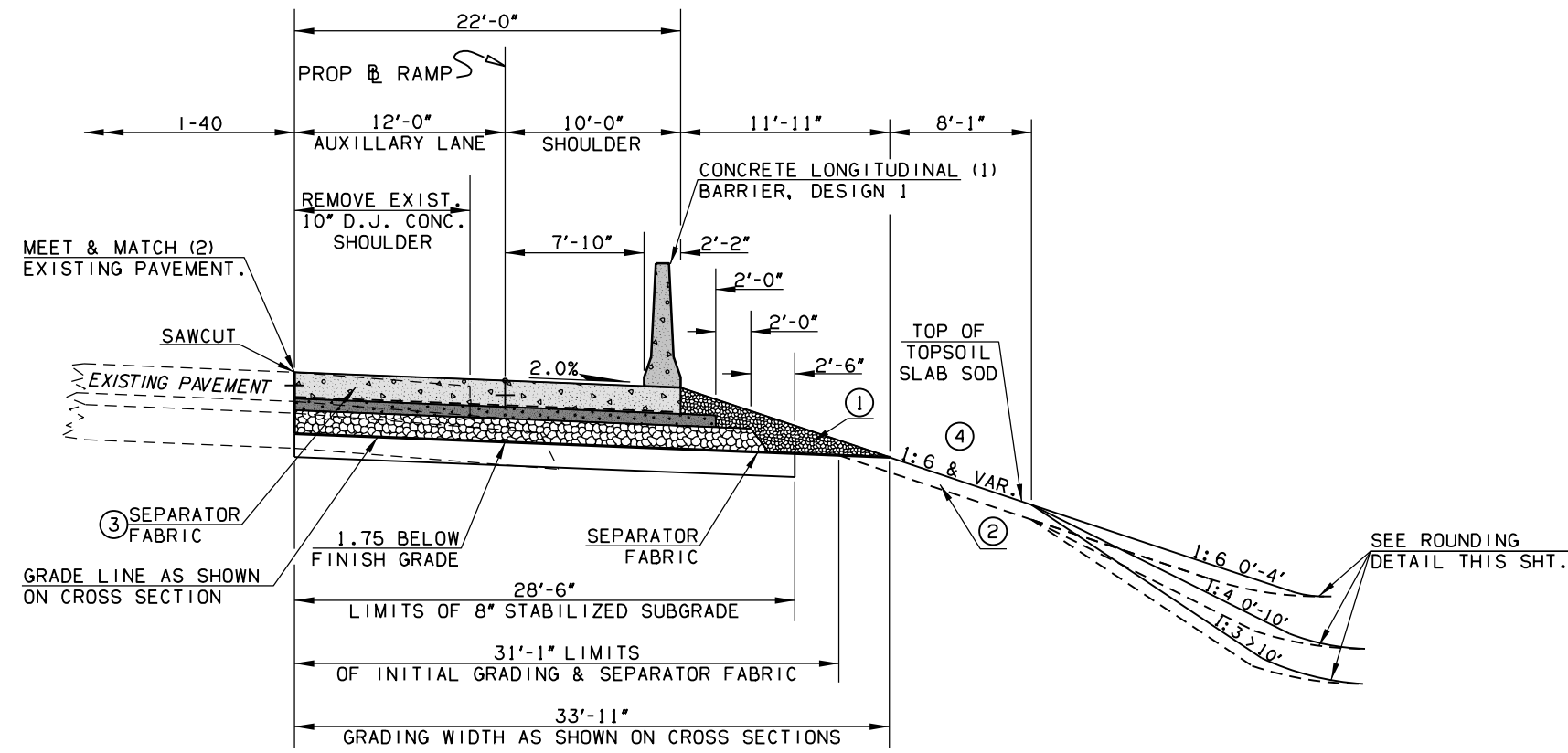
- (1) DISTANCE VARIES SEE CROSS SECTIONS.
- SEE MOMENT SLAB DETAIL SHEETS NO. 21

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

**TYPICAL SECTIONS
SHEET 5 OF 6**

STATE JOB NO. 30444(06) SHEET NO. 6

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TYPICAL SECTION - I-40

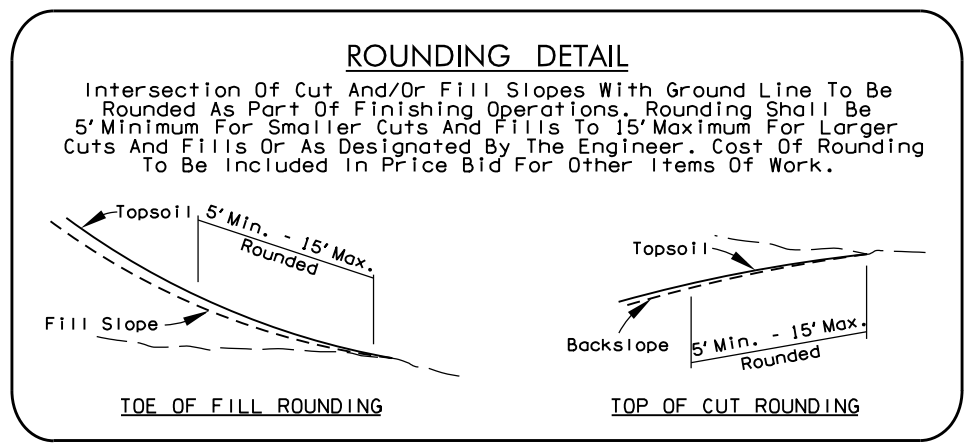
WESTBOUND I-40 - STA. 350+86.76 TO STA. 374+74.70

- (1) SEE PLAN AND PROFILE SHEETS FOR LOCATIONS
- (2) THE PROPOSED CONSTRUCTION SHALL MATCH THE EXISTING PAVEMENT BOTH HORIZONTALLY AND VERTICALLY.

PC CONCRETE REQUIREMENT		
26' PAVT. STRUCTURE	DRIVING LANES	PAVED SHOULDERS
SURFACE COURSE	9.0" DOWEL JOINTED PC CONCRETE	9.0" PC CONCRETE
BASE COURSES	4.0" CEMENT TREATED BASE	4.0" CEMENT TREATED BASE
	8.0" AGGREGATE BASE TYPE A	8.0" AGGREGATE BASE TYPE A

- ① BACKFILL NOTE:
THIS AREA TO BE BACKFILLED AND COMPACTED AS PART OF THE FINISHING OPERATIONS. QUANTITY IS MEASURED IN T.B.S.C., TYPE E.
- ② TOPSOIL NOTE:
THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL, STOCKPILE IT, AND PLACE IT BACK ON THE SECTION IN ACCORDANCE WITH SECTION 205 OF THE STANDARD SPECIFICATIONS. RESERVED TOPSOIL SHALL BE SPREAD FIRST ON THE COMPLETED SLOPES OF THE CUT SECTIONS AND THE REMAINDER ON COMPLETED FILL SLOPES OR OTHER PRIORITY AREAS LOCATED BY THE ENGINEER. ALL ADDITIONAL COSTS ASSOCIATED WITH OPERATION SHALL BE INCLUDED IN THE PAY ITEM FOR SALVAGED TOPSOIL, LUMP SUM.

THE GRADING LINE AS SHOWN ON THE TYPICAL AND CROSS SECTIONS IS TO THE TOP OF THE TOPSOIL. EARTHWORK QUANTITIES WERE NOT ADJUSTED FOR SALVAGE AND THE TOPSOIL.
- ③ SEPARATOR FABRIC:
SHALL BE 15 OZ/S.Y., AS DIRECTED BY SPECIAL PROVISION 317 CEMENT TREATED BASE. COST SHALL BE INCLUDED IN PRICE BID FOR CEMENT TREATED BASE.
- ④ SEE CROSS SECTIONS.



DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

**TYPICAL SECTIONS
SHEET 6 OF 6**

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GENERAL CONSTRUCTION NOTES

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC. SEE STANDARD SPECIFICATIONS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.

MAINTENANCE OF THROUGH TRAFFIC INCLUDES THE MAINTENANCE OF THE EXISTING ROAD IN CLOSE PROXIMITY TO THE NEW CONSTRUCTION AS SHOWN ON THE PLANS.

FOR PROJECTS THAT INCLUDE WIDENING AND/OR RESURFACING, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROP-OFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE OPERATIONS BEGIN. ANY PORTION OF THE CONSTRUCTION OPERATIONS, SUCH AS SUPERPAVE LAYING OPERATIONS, EXCAVATION FOR PAVEMENT WIDENING, OR EXTENSION OF ROADWAY STRUCTURES, SHALL BE LIMITED TO ONE SIDE AT A TIME, AND THE PROCEDURES OUTLINED IN THE PAVEMENT DROP-OFF TREATMENT STANDARD PDT-1 (LATEST REVISION) SHALL BE IMPLEMENTED. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED THAT CAN BE SURFACED IN 1 (ONE) DAY'S TIME WITHOUT APPROVAL BY THE ENGINEER. LIGHTS, SIGNS AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES.

ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER SHALL BE CLEANED OUT TO THE RIGHT-OF-WAY LINE, AT EACH STRUCTURE AND BRIDGE, IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

ALL FLOWLINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS AND BEFORE PAVEMENT WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK. ANY REMAINING EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "MULCHING-TILLER METHOD", AS SPECIFIED IN 233.04B(2) OF THE STANDARD SPECIFICATIONS.

AREAS ON WHICH SALVAGED TOPSOIL IS TO BE REPLACED SHALL HAVE 18-46-0 FERTILIZER APPLIED, AT THE RATE OF 150 POUNDS PER ACRE, JUST PRIOR TO THE REPLACEMENT OF SALVAGED TOPSOIL.

AT THE BEGINNING OF TURFING OPERATIONS, ANY AREAS INCLUDED IN PLANNED QUANTITIES THAT HAVE GROWN A SATISFACTORY VOLUNTEER TURF OF PERENNIAL GRASS, AS DETERMINED BY THE ENGINEER, SHALL BE FERTILIZED AND WATERED AS CALLED FOR ON THE PLANS, BUT SHALL NOT BE SEEDED, SODDED, OR SPRIGGED.

T.B.S.C. SURFACES SHALL BE SPRINKLED WITH WATER AND ROLLED WITH A PNEUMATIC ROLLER IN A MANNER APPROVED BY THE ENGINEER.

THE ENGINEER SHALL CHECK GRADES AT RAMP TERMINALS, AND MAKE ANY ADJUSTMENTS OF THE GRADES AND SUPERELEVATIONS, WHICH ARE REQUIRED TO OBTAIN SMOOTH PROFILES FOR BOTH EDGES OF THE RAMP PAVEMENT. CROSS SLOPE BREAKOVER SHALL NOT EXCEED 5%(FIVE PERCENT).

PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.

EXCESS MATERIAL AT JOINTS AND CRACKS IN EXISTING PAVEMENT SHALL BE REMOVED FLUSH TO TOP OF PAVING IN A MANNER APPROVED BY THE ENGINEER.

IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT THE CONTRACTOR SHALL NOTIFY THE OKLAHOMA ONE-CALL SYSTEM, INC. 48 HOURS PRIOR TO BEGINNING EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. "CALL OKIE" 1-800-522-6543 OR 811.

ALL WORK AND/OR MATERIALS NOT CLASSIFIED AS A "CONTRACT PAY ITEM" SHALL BE CONSIDERED INCIDENTAL AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT.

(CAUTION) THE LOCATION OF ALL UTILITIES AS SHOWN ARE APPROXIMATE. DUE TO RELOCATIONS PLANNED OR PRESENTLY UNDER CONSTRUCTION THERE ARE SOME UTILITIES THAT WILL BE RELOCATED AND NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ALL UTILITIES.

DEPTH & LOCATION OF EXISTING UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE INFLICTED TO THE EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA AS A RESULT OF THIER DIGGING, TRENCHING, BORING, ETC..

PAY QUANTITY NOTES

(R-1) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS.

(R-5) AN ESTIMATED QUANTITY OF 4,110 C.Y. TOPSOIL TO BE RESERVED FOR REPLACEMENT OF APPROXIMATELY 5" ON COMPLETED FORESLOPES, DITCHES, AND BACKSLOPES. THIS QUANTITY IS INCLUDED IN THE EARTHWORK BALANCE. ANY ADDITIONAL EXCAVATION REQUIRED IN CUT SECTIONS TO ALLOW FOR PLACEMENT OF TOPSOIL TO FINAL GRADE. SHALL BE INCLUDED IN THE PRICE BID.

(R-7) FOR TYPE A-SALVAGED TOPSOIL PRICE BID TO INCLUDE COST OF (18-46-0) FERTILIZER, ESTIMATED AT 150 POUNDS PER ACRE.

(R-9) ESTIMATED AT 40 GALLONS PER SQ. YD. OF SODDING AND/OR SPRIGGING.

(R-11) THE QUANTITIES ESTIMATED FOR TEMPORARY EROSION AND SEDIMENT CONTROL IS 6.11 ACRES.

(R-13) ESTIMATED AT 200 POUNDS OF 10-20-10 FERTILIZER PER 1,000 SQ. YDS. OF SODDING AND/OR SPRIGGING.

(R-16) QUANTITY BASED ON TWO APPLICATIONS.

(R-25) ESTIMATED AT 120 LBS. PER CU. FT.

(R-41) QUANTITY INCLUDES AN ESTIMATED 100 C.Y. TO BE USED AS DIRECTED BY THE ENGINEER.

(R-48) INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.

(R-49) TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.

(R-50) MATERIALS REMOVED SHALL NOT BE MEASURED FOR PAYMENT UNDER SECTION 202.06 UNCLASSIFIED EXCAVATION.

- (1) PRICE BID FOR CLEARING AND GRUBBING SHALL INCLUDE THE REMOVAL OF TREES, VEGETATIVE DEBRIS, AND ANY OTHER ORGANIC ITEMS NOT SPECIFICALLY PAID FOR AS REMOVAL ITEMS.
- (2) REMOVAL OF ACCUMULATED SEDIMENT SHALL BE INCLUDED IN THE PRICE BID FOR THIS PAY ITEM, AND WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. REMOVE SILT WHEN 50% FULL OR AS DIRECTED BY THE ENGINEER.
- (3) PRICE BID SHALL ALSO INCLUDE, BUT IS NOT LIMITED TO, THE REMOVAL OF CONCRETE FLUMES, STRUCTURES, STORM SEWERS, PIPELINES, CONC. CURB & GUTTER, PAVEMENT MARKINGS, FENCING, FOOTINGS, POLES, GROUND MOUNTED SIGN STRUCTURES AND SHEET METAL SIGNS TO BE PERMANENTLY REMOVED AND ANY OTHER NON-ORGANIC ITEM NOT SPECIFICALLY VERIFIED AS TO THE EXISTING CONDITION AND POSSIBLE NON-STANDARD REMOVAL OPERATIONS THAT MAY BE REQUIRED.
- (4) TO BECOME THE PROPERTY OF THE STATE AND STOCK PILED IN THE RIGHT-OF-WAY TO BE MOVED BY STATE FORCES. AMOUNT SHOWN IS AN ESTIMATED QUANTITY OF REMOVAL AND FINAL QUANTITY SHALL BE DETERMINED BY THE ENGINEER.
- (5) ESTIMATED AT 160 LBS. PER CU. FT.
- (6) PRICE BID FOR THIS ITEM SHALL INCLUDE THE COST OF TRENCHING, BEDDING/COVER MATERIAL, NON-PERFORATED PIPE AND ALL OTHER MATERIALS NECESSARY TO EXTEND EXISTING PUD SYSTEMS.
- (7) STABILIZED SUBGRADE' SHALL INCLUDE THE COST OF CHEMICAL ADDITIVE TO ACHIEVE THE RATE SPECIFIED FOR THE APPROPRIATE SOIL CLASSIFICATION AS SPECIFIED IN THE MOST CURRENT ODOT MATERIALS DIVISION OHD L-50.
- (8) TO BE USED AT THE DISCRETION OF THE ENGINEER TO FILL ANY VOIDS ENCOUNTERED DURING SLOPEWALL CONSTRUCTION.
- (9) CONTRACTOR SHALL REMOVE ALL SILT AND DEBRIS FROM EXISTING DRAINAGE STRUCTURES AND SHALL FIELD VERIFY FLOW LINES PRIOR TO CONSTRUCTING STRUCTURE EXTENSIONS.
- (10) ESTIMATED QUANTITY ONLY TO BE USED AS DIRECTED BY THE ENGINEER.
- (11) INCLUDES 63 C.Y. TO BE USED FOR CONCRETE PAVEMENT PATCHING.
- (12) THE CONTRACTOR SHALL USE GUARDRAIL END TREATMENT LISTED AND APPROVED ON THE TRAFFIC QUALIFIED PRODUCT LIST. SEE <http://www.okladot.state.ok.us/traffic/qpl/>
- (13) QUANTITY INCLUDES 50 CY TO BE USED AS DIRECTED BY THE ENGINEER.
- (14) DURING SAWING OPERATIONS THE CONTRACTOR SHALL ENSURE THAT THE PROPOSED TRANSVERSE JOINTS MATCH THE EXISTING TRANSVERSE JOINTS WHERE POSSIBLE.

PAY QUANTITIES

0100 ROADWAY				30444(06)
ITEM NO.		DESCRIPTION	UNIT	QUANTITY
201(A)	0102	CLEARING AND GRUBBING	(1) LSUM	1
202(A)	0183	UNCLASSIFIED EXCAVATION	(R-1) CY	10,998
202(D)	0184	UNCLASSIFIED BORROW	(R-1) CY	12,554
205(A)	4229	TYPE A-SALVAGED TOPSOIL	(R-5)(R-7) LSUM	1
221(C)	2801	TEMPORARY SILT FENCE	(2) LF	9,272
221(F)	0100	TEMPORARY SILT DIKE	(2) LF	150
221(H)	0450	(PL) TEMPORARY INLET SEDIMENT FILTER	(2) EA	6
229	4318	DITCH LINER PROTECTION	LF	1,070
230(A)	2806	SOLID SLAB SODDING	SY	29,580
230(F)	2812	WATERING	(R-9) KGAL	2,367
233(A)	2817	VEGETATIVE MULCHING	(R-11) AC	7
234(A)	2824	FERTILIZING (10-20-10)	(R-13) TON	3
241	2832	MOWING	(R-16) AC.	14
303(A)	2100	AGGREGATE BASE TYPE A	CY	3,069
307(K)	4300	STABILIZED SUBGRADE	(7) SY	21,653
317	4270	CEMENT TREATED BASE	SY	18,331
325	5271	SEPARATOR FABRIC	SY	16,581
402(E)	0225	TRAFFIC BOUND SURFACE COURSE TYPE E	(R-25) TON	2,042
414(A)	0210	P.C. CONCRETE PAVEMENT (PLACEMENT)	SY	5,415
414(B)	5725	DOWEL JOINTED P.C. CONCRETE PAVEMENT (PLACEMENT)	SY	10,768
414(E)	0225	FULL DEPTH P.C. CONCRETE PATCHING (PLACEMENT ONLY)	(10) SY	250
414(G)	5275	P.C. CONCRETE FOR PAVEMENT	(11)(14) CY	4,855
501(C)	6309	CLSM BACKFILL	(8) CY	25
504(E)	1381	CONCRETE PARAPET	LF	18
504(E)	6190	42" F-SHAPED PARAPET	LF	1,179
509(D)	0321	CLASS A CONCRETE	(13) CY	189
509(D)	0325	CLASS C CONCRETE	(R-41) CY	182
510(C)	6135	SLOPE WALL (5")	SY	1,472
511(A)	0332	REINFORCING STEEL	LB	28,130
601(B)	0536	TYPE I-A PLAIN RIPRAP	(5) TON	4,605
601(C)	0538	TYPE I-A FILTER BLANKET	TON	864
610(C)	0609	6" CONCRETE DIVIDING STRIP	SY	900
613(A)	0492	24" R.C. PIPE CLASS III	(9) LF	24
613(A)	0494	36" R.C. PIPE CLASS III	(9) LF	16
613(L)	5730	24" PREFAB. CULVERT END SECTION, ROUND	(9) EA	1
613(L)	5734	36" PREFAB. CULVERT END SECTION, ROUND	(9) EA	2
613(Q)	5946	OUTLET LATERAL HEADWALL	(6) EA	11
613(S)	1186	STANDARD BEDDING MATERIAL, CLASS B	CY	20
613(V)	1180	TRENCH EXCAVATION	CY	33
619(A)	0920	REMOVAL OF STRUCTURES & OBSTRUCTIONS	(3)(R-48)(R-49) LSUM	1
619(B)	0291	REMOVAL OF HEADWALL	(R-49) EA	14
619(B)	4727	REMOVAL OF CONCRETE PAVEMENT	(R-49)(R-50) SY	5,796
619(B)	4728	REMOVAL OF ASPHALT PAVEMENT	(R-49)(R-50) SY	272
619(B)	4780	REMOVAL OF GUARDRAIL	(4)(R-49) LF	250
619(B)	4821	REMOVAL OF CONCRETE SLOPE PROTECTION	(R-49)(R-50) SY	935
619(B)	5881	REMOVAL OF CONCRETE DITCH LINER	(R-49) LF	170
619(B)	6132	REMOVAL OF 6" CONCRETE DIVIDING STRIP	(R-49)(R-50) SY	1,027
619(B)	6252	REMOVAL OF EXISTING PARAPET	(R-49)(R-50) LF	18
619(C)	0924	SAWING PAVEMENT	LF	15,235
623(A)	0932	BEAM GUARDRAIL W-BEAM SINGLE	LF	125
623(G)	8571	GUARDRAIL END TREATMENT (GET)	(12) EA	1
623(I)	8700	GUARDRAIL BRIDGE CONN-THRIE BEAM (31")	EA	1
627(A)	4317	CONCRETE LONGITUDINAL BARRIER, DESIGN 1	LF	1,150
853	9066	GUARDRAIL DELINEATORS (TYPE 1, CODE 1)	EA	4

PAY QUANTITIES

0600 STAKING				30444(06)
ITEM NO.		DESCRIPTION	UNIT	QUANTITY
642(B)	0096	CONSTRUCTION STAKING LEVEL II	LSUM	1

PAY QUANTITIES

0640 CONSTRUCTION				30444(06)
ITEM NO.		DESCRIPTION	UNIT	QUANTITY
220	2800	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	1
641	1552	MOBILIZATION	LSUM	1

POE & ASSOCIATES, OKLAHOMA CITY, OK.

FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				

DESCRIPTION	REVISIONS	DATE
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\$DATE\$ \$TIME\$ \$H\$ PROJECTS\20307B 0001 EC-161\Roadway\Drawings\30444(06)_Pay Quantities & Notes.dgn

DESIGN	
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SQUAD	POE

SUMMARY OF PAY QUANTITIES & NOTES (ROADWAY)

STATE JOB NO. 30444(06) SHEET NO. 8

OKLAHOMA COUNTY

FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				

DESCRIPTION	REVISIONS	DATE

GENERAL CONSTRUCTION NOTES

- (C-51) REMOVED MATERIAL TO BECOME PROPERTY OF CONTRACTOR AND IT SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.
- (C-52) THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC. SEE O.D.O.T. STANDARDS AND DETAIL DRAWINGS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.
- (C-53) ANY DAMAGE CAUSED BY THE CONTRACTOR TO ANY STRUCTURES, ROADWAY SURFACES, STRIPING, RAISED PAVEMENT MARKERS, GUARDRAIL, SLOPES, AND SIGNS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- (C-56) ALL REGULATORY SIGNS SHALL HAVE HIGH INTENSITY SHEETING. THE HIGH INTENSITY SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956-(LATEST REVISION) FOR TYPE III SHEETING.
ALL WARNING SIGNS SHALL HAVE FLUORESCENT YELLOW SHEETING. THE FLUORESCENT YELLOW SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956-(LATEST REVISION) REQUIREMENTS FOR TYPE VIII SHEETING.
ALL GREEN AND BLUE SIGNS ON CONVENTIONAL HIGHWAYS SHALL HAVE HIGH INTENSITY SHEETING. THE HIGH INTENSITY SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956-(LATEST REVISION) FOR TYPE III SHEETING.
ALL PANEL AND OVERHEAD SIGNS SHALL HAVE TYPE III HIGH INTENSITY BACKGROUND WITH TYPE VIII LEGENDS AND BORDERS. THE TYPE III BACKGROUND AND THE TYPE VIII LEGENDS AND BORDERS SHALL MEET THE REQUIREMENTS OF ASTM D4956-(LATEST REVISION).
THE MANUFACTURER SHALL FURNISH A TYPE 'A' CERTIFICATION IN ACCORDANCE WITH ODOT STANDARD SPECIFICATIONS, LATEST EDITION, AND SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON THE MATERIAL SUBMITTED FOR APPROVAL.
- (C-57) ALL BROKEN CONCRETE INCLUDING OLD SIGN FOOTINGS WITH STUBS, WASTE MATERIAL AND DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE LIMITS OF THE PROJECT AND DISPOSED OF IN AN AREA APPROVED BY THE ENGINEER. NO PAYMENT SHALL BE MADE FOR THE DISPOSAL OF THIS MATERIAL. ANY PIPE POST OR WIDE FLANGE POST ABOVE THE OLD SIGN FOOTINGS SHALL BE CUT AND HANDLED AS PROPERTY OF THE STATE AND SHALL BE NEATLY STACKED ON THE JOB SITE, AS DESIGNATED BY THE ENGINEER UNTIL SUCH TIME AS DIVISION PERSONNEL CAN REMOVE THE MATERIAL FROM THE JOB SITE.
- (C-58) NO SPLICES SHALL BE PERMITTED IN ANY PIPE OR WIDE FLANGE SIGN POSTS.
- (C-59) ALL ANCHOR BOLTS SHALL BE GRADE A-36 STEEL.
- (C-60) THE STATIONS AND LOCATIONS OF THE SIGN PLACEMENT, AS SHOWN ON THE PLAN SHEETS, ARE APPROXIMATE. EXACT STATIONS AND LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR SO THAT THE SIGN IS INSTALLED IN ACCORDANCE WITH DEPARTMENT STANDARDS AND THE MUTCD IN ORDER TO PROVIDE OPTIMUM VISIBILITY TO THE ONCOMING/APPROACHING MOTORIST. IF A PROPOSED LOCATION CONFLICTS WITH OTHER SIGNS, UTILITIES OR OTHER ROADWAY FEATURES, THE ENGINEER SHALL BE NOTIFIED.
- (C-61) POST LENGTHS SHOWN ON SIGN SUMMARY ARE APPROXIMATE, EXACT LENGTH SHALL BE DETERMINED BY FIELD SURVEY BY THE CONTRACTOR.
- (C-62) THE COST OF REPLACEMENT OF MISSING OR DAMAGED EDGE STRIP ON EXISTING SIGNS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
- (C-63) ALL EXISTING AND NEW BREAKAWAY SIGN POSTS, PIPES AND WIDE FLANGE BEAMS SHALL HAVE SHEET METAL BOLT RETAINER PLATES AS SPECIFIED IN O.D.O.T. STD. FGS1-1-(LATEST REVISION). REPLACEMENT COST OF MISSING OR DAMAGED BOLT RETAINER PLATES AND ALL ASSOCIATED HARDWARE AND LABOR SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
- (C-65) ALL REMOVED SIGNS, SIGN POSTS, BOLTS, MISCELLANEOUS HARDWARE, AND DELINEATORS SHALL REMAIN THE PROPERTY OF THE STATE. THE CONTRACTOR SHALL NEATLY STACK SUCH REMOVED MATERIAL AT A LOCATION ON THE JOB SITE AS DESIGNATED BY THE ENGINEER UNTIL SUCH TIME AS DIVISION PERSONNEL CAN REMOVE THE MATERIAL FROM THE JOB SITE.
- (C-66) ALL SIGNS SHALL BE REMOVED FROM THE POSTS IN A SALVAGEABLE MANNER FOR REUSE. CARE SHALL BE TAKEN DURING REMOVAL AND TRANSPORTING TO ALLEVIATE DAMAGE OF MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED DURING REMOVAL OF SIGNS AND SIGN POSTS.
- (C-68) AFTER REMOVAL OF ANY SIGN FOOTINGS, THE HOLES SHALL BE FILLED WITH SOIL AND TAMPED AND SHAPED IN A MANNER APPROVED BY THE ENGINEER.
- (C-69) FOR NEW OR EXISTING GROUND MOUNTED SIGNS, MAXIMUM STUB POST PROJECTION ABOVE FOOTING/GROUND LINE SHALL BE 1-3/4" +/- 1/4". MAXIMUM FOOTING PROJECTION ABOVE GROUND LINE SHALL BE NO MORE THAN 2". SHOULD ADDITIONAL SOIL BE REQUIRED, THE ENGINEER WILL DESIGNATE AN AREA TO OBTAIN ADDITIONAL SOIL. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.

PAY QUANTITY NOTES

- (TS-1) "REMOVAL OF SIGN FOOTINGS" SHALL MEAN THE REMOVAL OF AN EXISTING FOOTING WITH OR WITHOUT STUBS AND SHALL BE DISPOSED OF AS NOTED IN GENERAL CONSTRUCTION NOTES.
- (TS-32) THE AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL, IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING REMOVAL (TRAFFIC STRIPE SHALL INCLUDE COST OF REMOVAL OF ARROWS, WORKS, AND SYMBOLS. THE PAVEMENT MARKING TO BE REMOVED SHALL BE CONSIDERED THERMOPLASTIC AND BID ACCORDINGLY.
DURING REMOVAL OF EXISTING STRIPING AND REPLACEMENT WITH NEW STRIPING, PERMANENT STRIPING SHALL BE REPLACED WITHIN 48 HOURS AFTER OLD STRIPING IS REMOVED.
- (TS-33) INCLUDED IN THIS PAY ITEM IS ALL HARDWARE ASSOCIATED WITH PROPERLY ANCHORING AND MOUNTING THE HIGHWAY SIGN IN ACCORDANCE WITH O.D.O.T. PLANS AND STANDARD DRAWINGS SSA1-1 AND SSP1-1-(LATEST REVISION).
- (TS-35) SEE STANDARD DRAWING IA1-1-(LATEST REVISION), OR MIA1-1-(LATEST REVISION) FOR CONCRETE PAD DESIGN.
- (TS-36) PRIVE BID FOR SAND FILLED IMPACT ATTENUATOR(S) SHALL INCLUDE COST FOR OMI1-1 OR OMI1-3 SIGN(S) WITH TYPE VIII SHEETING, AND THE REMOVAL OF ANY OM-3, OR OM-3E SIGNS(S)

PAY ITEM NOTES

- (STS-1) COST TO INCLUDE ALL NECESSARY HARDWARE AND ELECTRICAL EQUIPMENT REQUIRED FOR RESETTING/RELOCATION. REMOVAL, STORAGE AND REINSTALLATION, INCLUDING LOCATION SHALL BE APPROVED BY THE ENGINEER.
- (STS-2) COST TO INCLUDE POLES, HARDWARE, AND FOOTINGS NECESSARY TO RESET SIGN IN THE NEW LOCATION. INSTALLATION LOCATION TO BE FIELD VERIFIED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. INSTALLATION SHALL MEET ODOT TRAFFIC STANDARDS GMS1-1-(LATEST REVISION), SSA2-1-(LATEST REVISION), (FGS1-1-(LATEST REVISION), FGS2-1-(LATEST REVISION) AND SPA1-1-(LATEST REVISION).
- (STS-3) QUANTITY SHOWN INCLUDES 24,718 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) AND 12,531 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(YELLOW) AND 11,400 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(BLACK) AND WILL BE MEASURED BY THE LINEAR FOOT OF SIX (6") WIDE TRAFFIC STRIPE.
- (STS-4) QUANTITY SHOWN INCLUDES 1,449 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(WHITE) AND 1,449 L.F. TRAFFIC STRIPE (MULTI-POLYMER)(BLACK) AND WILL BE MEASURED BY THE LINEAR FOOT OF EIGHT (8") WIDE TRAFFIC STRIPE.
- (STS-5) OVERHEAD SIGNS THAT ARE TO BE REMOVED, RESET, AND/OR RELOCATED SHALL BE CAREFULLY REMOVED BY THE CONTRACTOR AND STORED AT A SITE SELECTED BY THE ENGINEER. ANY DAMAGE TO THE SIGNS OCCURING DURING THE REMOVAL, TRANSPORTATION, STORAGE, RESETTING, AND/OR RELOCATION OF THE SIGN SHALL BE REPAIRED BY, AND AT THE EXPENSE OF THE CONTRACTOR.
- (STS-6) IMPACT ATTENUATOR ON THIS PROJECT SHALL BE A "SCI100GM", MANUFACTURED BY WORK AREA PROTECTION CORPORATION, OR A "QUAD GUARD ELITE", MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, OR APPROVED EQUAL. THE UNITS MUST MEET NCHRP 350 TEST LEVEL III REQUIREMENTS AND "OKLAHOMA DEPARTMENT OF TRANSPORTATION GUIDELINES FOR CRASH CUSHIONS". PRICE BID FOR THIS ITEM SHALL INCLUDE THE COST FOR FURNISHING AND INSTALLING THE UNITS INCLUDING THE REINFORCING STEEL AND CONCRETE FOR THE CONCRETE PAD AND CONCRETE BACKUP IF NEEDED.

SIGNING AND STRIPING PAY QUANTITIES

0301 TRAFFIC		JP 30444(06)	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
509(D)	0325 CLASS C CONCRETE	CY	41.00
511(A)	0332 REINFORCING STEEL	LB	841.00
516(A)	6096 DRILLED SHAFTS 60" DIAMETER	LF	252.00
805(A)	8700 REMOVAL OF SIGN FOOTING (TS-1)	EA	11.00
805(A)	8718 REMOVAL OF OVERHEAD SIGN STRUCTURE & SIGNS (TS-1)(STS-5)	EA	5.00
805(D)	8756 (PL) REMOVE & RESET EXISTING SIGNS (STS-2)(TS-33)	EA	7.00
805(D)	8764 REMOVE & RESET/RELOCATE ITS EQUIPMENT (STS-1)	EA	1.00
850(A)	8110 SHEET ALUMINUM SIGNS	SF	144.00
850(B)	8114 EXTRUDED ALUMINUM PANEL SIGNS (OVERHEAD SIGNS)	SF	1,672.50
851(C)	8324 2" SQUARE TUBE POST L.F.	LF	120.00
852(D)	0340 OVHD.SN.STR., MONOTUE TYPE B 110'	EA	1.00
852(D)	0345 OVHD.SN.STR., MONOTUE TYPE B 115'	EA	1.00
852(D)	0350 OVHD.SN.STR., MONOTUE TYPE B 120'	EA	1.00
852(D)	0355 OVHD.SN.STR., MONOTUE TYPE B 125'	EA	1.00
852(D)	0360 OVHD.SN.STR., MONOTUE TYPE B 130'	EA	1.00
852(E)	0500 OVHD.SN.STR., MONOTUE TYPE C	EA	1.00
856(A)	8535 TRAFFIC STRIPE (MULTI-POLY.) (6" WIDE) (STS-3)	LF	48,649.00
856(A)	8540 TRAFFIC STRIPE (MULTI-POLY.) (8" WIDE) (STS-4)	LF	7,322.00
856(A)	8548 TRAFFIC STRIPE (MULTI-POLY.) (12" WIDE)	LF	5,591.00
856(B)	8860 TRAFFIC STRIPE (MULTI-POLY.) (ARROWS)	EA	63.00
856(B)	8870 TRAFFIC STRIPE (MULTI-POLY.) (SYMBOLS)	EA	19.00
856(B)	8880 TRAFFIC STRIPE (MULTI-POLY.) (WORDS)	EA	17.00
857(F)	8006 PAVEMENT MARKING REMOVAL (TRAFFIC STRIPE) (TS-32)	LF	17,954.00
870(A)	8011 SAND FILLED IMPACT ATTENUATION MODULE (TS-35)(TS-36)	EA	57.00
871(A)	8325 (SP) IMPACT ATTENUATOR (STS-6)	EA	3.00

\$DATE\$ \$TIME\$ H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\30444(06)_Pay Quantities & Notes-SIGNING.dgn

DESIGN	
DRAWN	
CHECKED	
APPROVED	
SQUAD	POE

SUMMARY OF PAY QUANTITIES & NOTES (SIGNING & STRIPING)

STATE JOB NO. 30444(06) SHEET NO. 9

FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				

DESCRIPTION	REVISIONS	DATE

GENERAL CONSTRUCTION NOTES

- (C-1) ANY SIGNS AND/OR DELINEATORS WHICH ARE TO BE REMOVED DURING THIS PROJECT WILL BE STORED IN A PROTECTED AREA DESIGNATED BY THE RESIDENT ENGINEER, UNTIL SUCH A TIME THAT THEY ARE TO BE RESET BY THE CONTRACTOR. COST OF THIS WORK TO BE INCLUDED IN OTHER ITEMS OF WORK.
- (C-3) THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING TRAFFIC ON CROSS STREETS. A MINIMUM OF ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES.

PAY QUANTITY NOTES

- (TC-1) THE CONTRACTOR SHALL FURNISH AND INSTALL SUCH LIGHTS, SIGNS, BARRICADES, AND PROVIDE FLAGGERS NECESSARY FOR THE CONTROL, SAFETY, AND MAINTENANCE OF TRAFFIC WHEN INSTALLING, RELOCATING OR DELIVERING PORTABLE LONGITUDINAL BARRIER.
- (TC-2) QUANTITY INCLUDES SUFFICIENT LENGTH OF PORTABLE LONGITUDINAL BARRIER TO PROVIDE FOR THE LONGEST SECTION SHOWN ON THE PLANS. THIS SAME BARRIER WILL BE USED ON OTHER DETOUR PHASES.
- (TC-15) PAY QUANTITY SHALL MEET THE REQUIREMENTS OF ODOT SPECIFICATION SECTION 711.10 TRAFFIC STRIPE PAINT ACRYLIC WATERBORNE WITH THE EXCEPTION OF THE ACRYLIC EMULSION POLYMER SHALL BE ROHM AND HASS HD-21A OR DOW CHEMICAL DT-400.
- (TC-16) PAINT SHALL CONFORM TO SECTION 711 "TRAFFIC STRIPE", OF THE O.D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).
IF CONSTRUCTION TRAFFIC STRIPE PAINT IS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND FAILS DURING THE FIRST SIX MONTHS OF SERVICE, REPLACEMENT WILL BE MADE AT THE CONTRACTOR'S EXPENSE AND SHALL BE ACCOMPLISHED IN A TIMELY MANNER UPON NOTIFICATION BY THE ENGINEER OF SUCH FAILURE.
- (TC-17) INCLUDES AN ESTIMATED 19,900.00 L.F. (PAINT) (4" WIDE) WHITE 12,792.00 L.F. (PAINT) (4" WIDE) YELLOW STRIPE.
- (TC-19) THIS ITEM INCLUDES AN ESTIMATED 500 L.F. (4" WIDE) WHITE AND 500 L.F. (4" WIDE) YELLOW STRIPE. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN O.D.O.T. APPROVED REMOVABLE PAVEMENT MARKING TAPE. COST FOR REMOVAL OF THIS TAPE SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM. NON-REMOVABLE MARKING TAPE (FOIL BACK) SHALL NOT BE CONSIDERED AN APPROVED EQUAL FOR THIS ITEM.
- (TC-20) ALL STRIPING TO BE PLACED ON TEMPORARY SURFACES OR ON SURFACES SCHEDULED TO BE REMOVED SHALL BE DONE WITH PAINT UNLESS OTHERWISE NOTED ON THE PLANS OR STANDARD DRAWINGS. TEMPORARY PAVEMENT MARKINGS PLACED ON FINISHED PAVEMENT OR EXISTING PAVEMENT TO REMAIN IN PLACE SHALL USE ONE REMOVABLE PAVEMENT MARKING TAPE CLASS A PAVEMENT MARKERS
- (TC-21) INCLUDED IN THE COST OF THIS ITEM SHALL BE INSTALLATION, MAINTENANCE, AND REMOVAL. THIS ITEM SHALL BE BID ACCORDINGLY.
- (TC-22) AMOUNT SHOWN IS AN APPROXIMATION AND THE ACTUAL AMOUNT OF REMOVAL, IF NECESSARY, SHALL BE DETERMINED BY THE ENGINEER. PRICE BID FOR PAVEMENT MARKING REMOVAL SHALL INCLUDE THE COST OF REMOVING STRIPE, ARROWS, WORDS, AND SYMBOLS, AS SHOWN IN THE PLANS, THESE ITEMS MAY CONSIST OF PLASTIC, PAINT OR NON-REMOVABLE MARKING TAPE.
- (TC-26) ALL CONSTRUCTION TRAFFIC CONTROL WILL BE IMPLEMENTED ACCORDING TO CONSTRUCTION PLANS, AND INSTALLED IN A MANNER APPROVED BY THE ENGINEER, IN ACCORDANCE WITH CHAPTER VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (CURRENT EDITION), AND COMPLIANT WITH APPLICABLE O.D.O.T. STANDARD DRAWINGS. PRICE BID FOR THIS ITEM SHALL BE PAYMENT IN FULL FOR THE INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL NECESSARY CONSTRUCTION TRAFFIC CONTROL DEVICES REQUIRED FOR COMPLETION OF THE PROJECT.
ALL SIGNS AND BARRICADES WHICH ARE SHOWN WITH TYPE 'A' LIGHTS IN THE STANDARD DRAWINGS SHALL HAVE THE CORRESPONDING LIGHT ATTACHED DURING NON-DAYLIGHT HOURS.
- (TC-33) ALL CONSTRUCTION WORK ZONE SIGNS SHALL HAVE FLUORESCENT SHEETING. THE FLOURESCENT SHEETING SHALL MEET THE REQUIREMENTS OF ASTM D4956 (LATEST REVISION)
THE MANUFACTURER SHALL FURNISH A TYPE 'D' CERTIFICATION IN ACCORDANCE WITH O.D.O.T. STANDARD SPECIFICATIONS (CURRENT EDITION) SUBSECTION 106.04. THE CERTIFICATION SHALL INCLUDE TEST RESULTS ON MATERIAL SUBMITTED FOR APPROVAL.
- (TC-52) ANY USED CONSTRUCTION ZONE IMPACT ATTENUATOR TO BE PLACED ON THIS PROJECT SHALL BE SUBJECT TO INSPECTION AND APPROVAL, BY THE OKLAHOMA DEPARTMENT OF TRANSPORTATION, TO ASSURE THAT THEY ARE IN GOOD WORKING CONDITION, PRIOR TO PLACEMENT ON THE PROJECT.
- (TC-61) ANY DAMAGE TO A FINISHED OR EXISTING SURFACE RESULTING FROM THE CONTRACTORS NEGLIGENCE IN THE REMOVAL OF CONSTRUCTION ZONE PAVEMENT MARKERS OR CHANNELIZING DEVICES AND THE BITUMINOUS ADHESIVE USED IN THEIR INSTALLATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE ENGINEER.

PAY QUANTITY NOTES (CONT.)

- (TC-65) THE PRICE BID FOR THIS ITEM SHALL INCLUDE THE FOLLOWING:
A. ONE OFFICIALLY MARKED OKLAHOMA HIGHWAY PATROL CAR (WHEN PROJECT INVOLVES A STATE OR FEDERAL HIGHWAY), IF AN OKLAHOMA HIGHWAY PATROL CAR IS NOT AVAILABLE, THEN A LOCAL CITY OR COUNTY LAW ENFORCEMENT VEHICLE IS TO BE USED. PRICE BID FOR THIS ITEM SHALL BE PAID ON A PER UNIT PER HOUR BASIS.
B. ONE OKLAHOMA HIGHWAY LAW ENFORCEMENT OFFICER WITH JURISDICTIONAL AUTHORITY TO WRITE AND ISSUE TRAFFIC CITATIONS. IF AN OKLAHOMA HIGHWAY PATROL LAW OFFICER IS NOT AVAILABLE, THEN A LOCAL CITY OR COUNTY LAW ENFORCEMENT OFFICE IS TO BE USED. THE LAW ENFORCEMENT OFFICER SHALL BE INSURED, LICENSED AND BONDED, IF REQUIRED, BY THE CONTRACTOR. THIS OFFICER SHALL BE SPECIFICALLY APPROVED AND ASSIGNED TO THIS WORK ACTIVITY.
C. THE CONTRACTOR SHALL MAKE ALL THE NECESSARY ARRANGEMENTS WITH THE OKLAHOMA HIGHWAY PATROL OR THE LAW ENFORCEMENT AGENCY TO PROVIDE THE REQUIRED LAW ENFORCEMENT ON THIS PROJECT.
D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING HIS ANTICIPATED WEEKLY SCHEDULE TO THE OKLAHOMA HIGHWAY PATROL OR THE LOCAL LAW AGENCY TWO WEEKS IN ADVANCE OF THE WORK. THE WORK SCHEDULE WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
E. THE OKLAHOMA HIGHWAY PATROL OR THE LOCAL LAW ENFORCEMENT AGENCY WILL BE PAID FOR A MAXIMUM OF ONE (1) HOUR, PER WORK PERIOD, TO ALLOW FOR TRAVEL TO AND FROM THE OFFICER'S PERMANENT DUTY STATION AND THE WORK SITE. THIS WILL BE PAID ONE (1) TIME PER WORK PERIOD AS DEFINED BY THE CONTRACTOR IN AGREEMENT WITH THE ENGINEER.
- (TC-70) THIS ITEM IS AN ESTIMATED QUANTITY TO BE USED AS DEEMED NECESSARY BY THE ENGINEER.
- (TC-73) QUANTITY SHOWN INCLUDES 600 EA. (WHITE) AND 400 EA. (YELLOW) CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TABS). THESE CONSTRUCTION ZONE PAVEMENT MARKERS SHALL BE EITHER "DAVIDSON PLASTICS: MODEL TOM", OR AN APPROVED EQUAL. PRICE BID FOR THIS ITEM SHALL INCLUDE THE INITIAL PLACEMENT, SUBSEQUENT REPLACEMENT, AND REMOVAL. THE CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TABS) SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN ON STANDARD DRAWING TCS21-1-(LATEST REVISION).
- (TC-75) TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE THE SAME DAY THAT EXISTING PAVEMENT MARKINGS ARE REMOVED FROM ANY ROADWAY OPEN TO TRAFFIC. ALSO, ALL TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO THE INSTALLATION OF FINAL STRIPING.
- (TC-80) INCLUDED IN THIS ITEM SHALL BE ONE (1) ADDITIONAL UNIT TO BE USED AS A STAND-BY OR REPLACEMENT. THIS STAND-BY UNIT SHALL BE IMMEDIATELY ACCESSIBLE TO REPLACE A DAMAGED, STOLEN OR MALFUNCTIONING UNIT. THE AMOUNT OF TIME BETWEEN THE REMOVAL OF THE DAMAGED UNIT AND THE INSTALLATION OF THE STAND-BY UNIT SHALL BE NO MORE THAN TWENTY-FOUR (24) HOURS.
- (TC-84) 100.00 CONSTRUCTION CALENDAR DAYS WERE USED TO COMPUTE THE SIGN DAY PAY ITEMS. THE AMOUNT OF CALENDAR DAYS USED TO COMPUTE THE SIGN DAY PAY ITEMS IS AN ESTIMATED QUANTITY ONLY, BASED ON THE CURRENT O.D.O.T. STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECT'S CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
- (TC-85) THESE SIGNS MUST BE ON THE OKLAHOMA DEPARTMENT OF TRANSPORTATION LIST OF APPROVED CHANGEABLE MESSAGE SIGNS. FOR A LIST OF THE APPROVED SIGNS GO TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION WEBSITE AT: [HTTP://WWW.OKLADOT.STATE.OK.US/TRAFFIC/QPL/INDEX.PHP](http://www.okladot.state.ok.us/traffic/qpl/index.php)

PAY ITEM NOTES

- (SP-1) THIS QUANTITY SHALL BE USED DURING FINAL STRIPING, FOR THE MOVING WORK ZONE.
- (SP-2) SIGN PLACEMENT SHALL BE DETERMINED BY THE ENGINEER.
- (SP-3) SEE SPECIAL PROVISION FOR SMART WORK ZONE SYSTEM.
- (SP-4) THIS ITEM SHALL INCLUDE 2 LAPTOPS AS STATED IN THE SPECIAL PROVISION.

PAY QUANTITIES (TRAFFIC OPERATIONS)

0303 TRAFFIC		JP 30444(06)	
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
857(A)	8839 CONSTRUCTION TRAFFIC STRIPE (PAINT)(4" WIDE) (TC-15, TC-16, TC-17, TC-21, TC-20, TC-75)	LF	32,692.00
857(C)	8851 REMOVABLE PAVEMENT MARKING TAPE (4" WIDE) (TC-19, TC-70)	LF	1,000.00
857(E)	8887 (PL) CONSTRUCTION ZONE PAVEMENT MARKERS (FLEX TAB) TYPE2-1 (TC-21, TC-61, TC-70, TC-73, TC-75)	EA	1,000.00
857(F)	8006 PAVEMENT MARKING REMOVAL (TRAFFIC STRIPE) (TC-22, TC-70, TC-84)	LF	31,240.00
871(B)	8705 (SP) CONST. ZONE IMPACT ATTEN. (TC-26, TC-52, TC-80, TC-84)	SD	200.00
877(B)	8484 DELIVER PORTABLE LONGITUDINAL BARRIER (TC-1, TC-2)	LF	8,287.50
877(C)	8486 RELOCATION OF PORTABLE LONGITUDINAL BARRIER (TC-1)	LF	1,537.50
880(B)	8818 CONSTRUCTION SIGNS 0 TO 6.25 SF (TC-26, TC-33, TC-84)	SD	3,600.00
880(B)	8821 CONSTRUCTION SIGNS 6.26 SF TO 15.99 SF (TC-26, TC-33, TC-84)	SD	4,500.00
880(B)	8824 CONSTRUCTION SIGNS 16.0 SF TO 32.99 SF (TC-26, TC-33, TC-84)	SD	9,900.00
880(C)	8842 CONSTRUCTION BARRICADES (TYPE III) (TC-26, TC-70, TC-84)	SD	500.00
880(C)	8848 WING BARRICADES (TC-26, TC-84)	SD	800.00
880(E)	8860 WARNING LIGHTS (TYPE A) (TC-26, TC-84)	SD	2,600.00
880(F)	8878 DRUMS (TC-26, TC-84)	SD	6,400.00
880(G)	8890 CHANNELIZER CONES (TC-70, SP-1)	SD	14,300.00
880(L)	8911 TRAFFIC SURVEILLANCE, POLICE (TC-65)	HOURL	120.00
882(A)	8306 PORT. CHANGEABLE MESSAGE SIGN (TC-52, TC-70, TC-85, SP-2)	SD	200.00
882	8370 (SP) SMART WORK ZONE SYSTEM-PORTABLE CHANGEABLE MESSAG (SP-3)	SD	1,400.00
882	8372 (SP) SMART WORK ZONE SYSTEM-PORTABLE TRAFFIC SENSOR (PTS) (SP-3)	SD	1,000.00
882	8374 (SP) SMART WORK ZONE SYSTEM-PAN-TILT-ZOOM CAMERAT (PTZC) (SP-3)	SD	100.00
882	8376 (SP) SMART WORK ZONE SYSTEM-WEBSITE SYSTEM (SP-3)	SD	100.00
882	8378 (PL) SMART WORK ZONE SYSTEM SETUP (SP-3, SP-4)	EA	1.00

DESIGN	
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APPROVED	
SQUAD	POE

SUMMARY OF PAY QUANTITIES & NOTES (TRAFFIC OPERATIONS)

STATE JOB NO. 30444(06) SHEET NO. 10

OKLAHOMA COUNTY

FINAL FIELD REVIEW

9/1/2017

SUMMARY OF SURFACING QUANTITIES																		
STATION TO STATION	UNCLASSIFIED BORROW 202(D)	AGGREGATE BASE TYPE 'A' 303(A)	STABILIZED SUBGRADE 307(A)	CEMENT TREATED BASE 317	SEPARATOR FABRIC 325	TBSC TYPE-E 402(E)	P.C. CONCRETE PAVEMENT (PLACEMENT) 414(A)	DOWEL JOINTED P.C. CONCRETE PAVEMENT (PLACEMENT) 414(B)	P.C. CONCRETE FOR PAVEMENT 414(G)	CONCRETE PARAPET 504(E)	42" F-SHAPED PARAPET 504(E)	CLASS A CONCRETE 509(B)	SLOPE WALL (5") 510(C)	REINFORCING STEEL 511(A)	6" CONCRETE DIVIDING STRIP 610(C)	OUTLET LATERAL HEADWALL 613(G)	SAWING PAVEMENT 619(C)	CONCRETE LONGITUDINAL BARRIER DESIGN 1 627(A)
	CY	CY	SY	SY	SY	TON	SY	SY	CY	LF	LF	CY	SY	LB	SY	EA	LF	LF
LINE 3 STA. 334+69.22 TO STA. 371+91.11	220.40	1,545.70	10,270.80	8,594.55	8,379.10	1,050.92	2,765.47	4,873.50	1,943.43	0.00	0.00	0.00	977.06	0.00	0.00	10.00	4,324.40	100.00
LINE 4 STA. 334+76.50 TO STA. 374+74.70	302.08	1,523.01	11,381.64	9,735.92	8,201.90	990.25	2,649.19	5,894.36	2,847.85	18.00	1,178.43	138.16	494.70	28,129.38	765.00	1.00	4,860.35	1,050.00
TOTALS	522.48	3,068.71	21,652.44	18,330.47	16,581.00	2,041.17	5,414.66	10,767.86	4,791.28	18.00	1,178.43	138.16	1,471.76	28,129.38	765.00	11.00	9,184.75	1,150.00

NOTE: FOR LOCATIONS OF OUTLET LATERAL HEADWALLS SEE REMOVAL SHEET NOS. 26-29.

SUMMARY OF EARTHWORK				
STATION TO STATION	UNCLASSIFIED EXCAVATION 202(A)	EMBANKMENT +/-15%	EXCESS EXCAVATION (1)	UNCLASSIFIED BORROW 202(D)
	C.Y.	C.Y.	C.Y.	C.Y.
PHASE I LINE 3 RT. 334+69.22 TO 371+91.11	3,927.00	15,961.00		12,034.00
LINE 4 RT. 334+76.50 TO 374+74.70	6,234.00	2,122.00	4,112.00	
PHASE II LINE 3 LT. 334+69.22 TO 340+47.77	338.00	2.00	336.00	
LINE 4 LT. 334+76.50 TO 343+00.00	499.00	3.00	496.00	
TOTALS	10,998.00	18,088.00	4,944.00	12,034.00

(1) EXCESS EXCAVATION SHALL BE USED TO REDUCE UNCLASSIFIED BORROW ANY REMAINING QUANTITY WILL BECOME WASTE AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER
NOTE:
FOR SEQUENCE OF CONSTRUCTION SEE TRAFFIC CONTROL PLAN PHASE I SHEET NO. 44.

SUMMARY OF DITCH TREATMENT								
STATION TO STATION	LOCATION		LENGTH	CONCRETE LINER			DITCH LINER PROTECTION 229	
	LEFT	RIGHT		BOTTOM WIDTH	CURTAIN WALLS	CLASS 'C' CONCRETE 509(D)		
	LF	FT		EA	CY	DESIGN NO.		
LINE 4 340+30.00 TO 348+00.00		X	770.00	2.00	9.00	40.72	1	770.00
348+00.00 TO 349+00.00 (1)		X	100.00	5.00	2.00	9.11	1	100.00
349+00.00 TO 351+00.00		X	200.00	8.00	3.00	31.34	2B	200.00
TOTALS:						81.17		1,070.00

(1) TRANSITION DITCH WIDTH FROM 2'-0" TO 8'-0".

SUMMARY OF GUARDRAIL								
STATION TO STATION	LOCATION		ANCHOR UNITS		TOTAL PANEL LENGTH INCLUDING ANCHOR UNITS	BEAM GUARDRAIL W-BEAM SINGLE 623(A)	6" CONCRETE DIVIDING STRIP 610(C)	GUARDRAIL DELINEATORS (TYPE 1, CODE 1) 853
	LEFT	RIGHT	GUARDRAIL END TREATMENT (31") 623(G)	GUARDRAIL BRIDGE CONN- THRIE BEAM (31") 623(I)				
	EA	EA	EA	EA				
LINE 4 334+76.50 TO 337+57.13		X	1.00	1.00	190.63	125.00	134.46	4.00
TOTALS:			1.00	1.00	190.63	125.00	134.46	4.00

SUMMARY OF RIPRAP					
STATION EXTENTS	D ₅₀	RIPRAP THICKNESS	FILTER BLANKET THICKNESS	TYPE I-A PLAIN RIPRAP 601(B)	TYPE I-A FILTER BLANKET 601(C)
	FT	IN	IN	TON	TON
LINE 3 355+00.00 TO 365+40.00	1.20	24	6.00	4604.81	863.40
TOTALS				4,604.81	863.40

\$DATE\$ \$TIME\$ \$PROJECT\$ \203078 0001 EC-161\Roadway\Drawings\304441061_Summary Sheets.dgn

DESIGN	
DRAWN	
CHECKED	
APPROVED	
SQUAD	POE

SUMMARY SHEET

STATE JOB NO. 304441061 SHEET NO. 11

OKLAHOMA COUNTY

FINAL FIELD REVIEW

9/1/2017

SUMMARY OF DRAINAGE STRUCTURES

STR NO.	STATION	DESCRIPTION	DESIGN	STRUCTURAL INSTALLATION						CLASS AA CONCRETE 509(A)	REINFORCING STEEL 511(A)	REINFORCED CONCRETE PIPE CLASS III 613(A)			PREFAB. CULVERT END SECTION 613(L)			REM. OF HDWL. 619(B)
				FILL HEIGHT FT	UNCL. EXCAV. 202(A) CY	STRUCT. EXCAV. 501(A) CY	TRENCH EXCAV. 613(V) CY	STD. BED. MAT'L.				24"	36"	42"	ROUND			
								CLASS A 613(R) CY	CLASS B 613(S) CY						24"	36"	42"	
1	STA. 341+32.50 BL LINE 3	EXTEND EXIST. 24" RCP 24' RT. W/ PCES	PCES-4, SPI-4, SPB-1	1			12.80		6.72			24			1			1
2	STA. 343+21.46 BL LINE 3	EXTEND EXIST. 36" RCP 16' RT. W/ PCES	PCES-4, SPI-4, SPB-1	1			15.48		10.08				16			1		1
3	STA. 349+03.25 BL LINE 4	REMOVE EXIST. HDWL. OF 36" RCP & CONST. PCES	PCES-4, SPI-4, SPB-1	1			3.87		2.52							1		1
TOTALS:					0.00	0.00	32.15	0.00	19.32	0.00	0.00	24.00	16.00	0.00	1.00	2.00	0.00	3.00

SUMMARY OF TEMPORARY SEDIMENT CONTROL

LOCATION		DESCRIPTION	TEMPORARY SILT FENCE 221(C) L.F.	TEMPORARY SILT DIKE 221(F) L.F.	TEMPORARY INLET SEDIMENT FILTER 221(H) EA	VEGETATIVE MULCHING 233(A) AC	DISTURBED AREA AC
STATION TO STATION	LEFT RIGHT						
LINE 3							
STA. 334+75.96 TO STA. 372+03.89	X		490	30	2	0.20	0.24
STA. 334+75.96 TO STA. 372+03.89		X	5654			3.61	5.34
LINE 4							
STA. 334+76.47 TO STA. 374+74.70	X		693			0.23	0.24
STA. 334+76.47 TO STA. 374+74.70		X	1735	90	4	2.07	4.09
MISCELLANEOUS			700	30			
TOTALS			9272	150	6	6.11	9.91

SUMMARY OF EROSION CONTROL

STATION LOCATION	SALVAGED TOPSOIL (TYPE A) 205(A) (1) C.Y.	SOLID SLAB SODDING 230(A) S.Y.	FERTILIZING (10-20-10) 234(A) TON	FERTILIZING (18-46-0) 234(A) (1) TON	WATERING 230(F) K-GAL.	MOWING 241 AC.
	LINE 3					
STA. 334+75.96 TO STA. 372+03.89	2560.00	18426.00	1.84	0.29	1474.10	3.81
LINE 4						
STA. 334+76.47 TO STA. 374+74.70	1550.00	11154.00	1.12	0.17	892.30	2.30
TOTALS	4,110.00	29,580.00	2.96	0.46	2,366.40	6.11

(1) FOR INFORMATION ONLY.

SUMMARY OF REMOVALS

STATION LOCATION	REMOVAL OF HEADWALL 619(B) (1) EA	REMOVAL OF CONCRETE PAVEMENT 619(B) S.Y.	REMOVAL OF ASPHALT PAVEMENT 619(B) S.Y.	REMOVAL OF GUARDRAIL 619(B) S.Y.	REMOVAL OF CONCRETE SLOPE PROTECTION 619(B) S.Y.	REMOVAL OF CONCRETE DITCH LINER 619(B) L.F.	REMOVAL OF 6" CONCRETE DIVIDING STRIP 619(B) S.Y.	REMOVAL OF EXISTING PARAPET 619(B) LF	SAWING PAVEMENT 619(C) L.F.
	LINE 3								
STA. 334+75.96 TO STA. 347+00.00	4	311	242.20		220	0			973
STA. 347+00.00 TO STA. 362+00.00	3	1722	29.00						1499
STA. 362+00.00 TO STA. 372+03.86	3	1032							1010
LINE 4									
STA. 334+76.47 TO STA. 347+00.00				125	715	170	1027	18	160
STA. 347+00.00 TO STA. 362+00.00		1264		125					1124
STA. 362+00.00 TO STA. 374+74.70	1	1467							1284
TOTALS	11	5796	271.20	250	935	170	1027	18	6050

(1) INCLUDES UNDERDRAIN OUTLET HEADWALLS

SUMMARY OF STRIPING

TYPE	TRAFFIC STRIP (MULTI-POLYMER)							
	TRAFFIC STRIPE LF	WHITE LF	YELLOW LF	BLACK LF	6" WIDE 856(A) LF	8" WIDE 856(A) LF	12" WIDE 856(A) LF	ARROW 856(B) EA
	6" SOLID EDGE LINE	25849	13318	12531		25849		
6" (DASHED)	42750	11400		11400	22800			
8" WHITE GORE	4424					4424		
8" (DOTTED)	7245	1449		1449		2898		
12" WHITE GORE	5591						5591	
TOTALS	85859	26167	12531	12849	48649	7322	5591	78

\$DATE\$ \$TIME\$ H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\30444106_Summary Sheets.dgn

DESIGN	
DRAWN	
CHECKED	
APPROVED	
SQUAD	POE

SUMMARY SHEET

STATE JOB NO. 30444106 SHEET NO. 12

OKLAHOMA COUNTY

STORM WATER MANAGEMENT PLAN

POE & ASSOCIATES, OKLAHOMA CITY, OK.

FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				

DESCRIPTION	REVISIONS	DATE

SITE DESCRIPTION

PROJECT LIMITS: I-35 NB EXIT RAMP TO I-40 EB & I-40 WB EXIT RAMP TO I-35 SB
FROM I-35 N. CANADIAN BRIDGE TO EASTERN AVE. INTERCHANGE.

PROJECT DESCRIPTION: INTERIM IMPROVEMENTS TO THE I-35 NB EXIT RAMP TO I-40 EB
AND TO THE I-40 WB EXIT RAMP TO I-35 SB. RAMP WIDENING AND REALIGNMENT WITH
GRADING, SURFACING, DRAINAGE, STRIPING, SIGNING AND EROSION CONTROL.

- SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES:
1. PLACE ALL TEMPORARY EROSION CONTROL DEVICES THAT WILL NOT INTERFERE WITH TOPSOIL SALVAGING OPERATIONS.
 2. PERFORM TOPSOIL SALVAGING OPERATIONS, PRESERVING ANY VEGETATION NOT IMPEDING CONSTRUCTION.
 3. PLACE REMAINING TEMPORARY EROSION CONTROL DEVICES AS REQUIRED OT NEEDED.
 4. PERFORM GRADING AND SURFACING OPERATIONS.
 5. PLACE PERMANENT EROSION CONTROL DEVICES ON ULTIMATE SLOPES.
 6. REMOVE TEMPORARY EROSION CONTROL DEVICES.

SOIL TYPE: SAND AND CLAY

TOTAL AREA OF THE CONSTRUCTION SITE: 10.42 AC.

ESTIMATED AREA TO BE DISTURBED: 9.91 AC.

OFFSITE AREA TO BE DISTURBED: (FOR CONTRACTOR USE)

TOTAL IMPERVIOUS AREA PRE-CONSTRUCTION: 2.21 AC.

TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 4.05 AC.

POST-CONSTRUCTION RUNOFF COEFFICIENT OF THE SITE: 0.80

LATITUDE & LONGITUDE OF CENTER OF PROJECT: 35°27'45"N, 97°29'21"W

PROJECT WILL DISCHARGE TO:

NAME OF RECEIVING WATERS: NORTH CANADIAN RIVER

SENSITIVE WATERS OR WATERSHEDS: YES NO

303(d) IMPAIRED WATERS: YES NO

IF YES, LIST IMPAIRMENT: LEAD

LOCATED IN A TMDL: YES NO

LAKE THUNDERBIRD TMDL: NO

MS4 ENTITY YES NO

IF YES, LOCATION: _____

NOTE:
 THIS SHEET SHOULD BE USED IN CONJUNCTION WITH A DRAINAGE MAP THAT ILLUSTRATES THE DRAINAGE PATTERNS/PATHWAYS AND RECEIVING WATERS FOR THIS PROJECT. THIS SHEET SHOULD ALSO BE USED WITH THE EROSION CONTROL SUMMARIES, PAY ITEMS, & NOTES.

EROSION AND SEDIMENT CONTROLS

SOIL STABILIZATION PRACTICES:

- TEMPORARY SEEDING
- PERMANENT SODDING, SPRIGGING OR SEEDING
- VEGETATIVE MULCHING
- SOIL RETENTION BLANKET
- PRESERVATION OF EXISTING VEGETATION

NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER.

STRUCTURAL PRACTICES:

- STABILIZED CONSTRUCTION EXIT
- TEMPORARY SILT FENCE
- TEMPORARY SILT DIKES
- TEMPORARY FIBER LOG
- DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR OR PERIMETER SWALES
- ROCK FILTER DAMS
- TEMPORARY SLOPE DRAIN
- PAVED DITCH W/ DITCH LINER PROTECTION
- TEMPORARY DIVERSION CHANNELS
- TEMPORARY SEDIMENT BASINS
- TEMPORARY SEDIMENT TRAPS
- TEMPORARY SEDIMENT FILTERS
- TEMPORARY SEDIMENT REMOVAL
- RIP RAP
- INLET SEDIMENT FILTER
- TEMPORARY BRUSH SEDIMENT BARRIERS
- SANDBAG BERMS
- TEMPORARY STREAM CROSSINGS

OFFSITE VEHICLE TRACKING:

- HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD REMOVED DAILY

NOTES:

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:

MAINTENANCE AND INSPECTION:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER FROM THE BEGINNING OF CONSTRUCTION UNTIL AN ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. INSPECTION BY THE CONTRACTOR AND ANY NECESSARY REPAIRS SHALL BE PERFORMED ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH AS RECORDED BY A NON-FREEZING RAIN GAUGE TO BE LOCATED ON SITE. POTENTIALLY ERODIBLE AREAS, DRAINAGEWAYS, MATERIAL STORAGE, STRUCTURAL DEVICES, CONSTRUCTION ENTRANCES AND EXITS ALONG WITH EROSION AND SEDIMENT CONTROL LOCATIONS ARE EXAMPLES OF SITES THAT NEED TO BE INSPECTED.

WASTE MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF CONSTRUCTION WASTE MATERIAL IS REQUIRED BY THE CONTRACTOR. MATERIALS INCLUDE STOCKPILES, SURPLUS, DEBRIS AND ALL OTHER BY-PRODUCTS FROM THE CONSTRUCTION PROCESS. PRACTICES INCLUDE DISPOSAL, PROPER MATERIALS HANDLING, SPILL PREVENTION AND CLEANUP MEASURES. CONTROLS AND PRACTICES SHALL MEET THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AGENCIES.

HAZARDOUS MATERIALS:

PROPER MANAGEMENT AND DISPOSAL OF HAZARDOUS WASTE MATERIALS IS REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS, STATE AND FEDERAL REGULATIONS TO ENSURE CORRECT HANDLING, DISPOSAL, SPILL PREVENTION AND CLEANUP MEASURES. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: PAINTS, ACIDS, CLEANING SOLVENTS, CHEMICAL ADDITIVES, CONCRETE CURING COMPOUNDS AND CONTAMINATED SOILS.

GENERAL NOTES:

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO COMPLY WITH THE OKLAHOMA POLLUTION DISCHARGE ELIMINATION SYSTEM (OPDES) REGULATIONS. THIS PLAN IS INITIATED DURING THE DESIGN PHASE, CONFIRMED IN THE PRE-WORK MEETINGS AND AVAILABLE ON THE JOB SITE ALONG WITH COPIES OF THE NOTICE OF INTENT (NOI) FORM AND PERMIT CERTIFICATE THAT HAVE BEEN FILED WITH THE OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY (ODEQ). THE PLAN MUST BE KEPT CURRENT WITH UP-TO-DATE AMENDMENTS DURING THE PROGRESSION OF THE PROJECT. ALL CONTRACTOR OFF-SITE OPERATIONS ASSOCIATED WITH THE PROJECT MUST BE DOCUMENTED IN THE SWPPP, I.E., BORROW PITS, WORK ROADS, DISPOSAL SITES, ASPHALT/CONCRETE PLANTS, ETC. THE BASIC GOAL OF STORM WATER MANAGEMENT IS TO IMPROVE WATER QUALITY BY REDUCING POLLUTANTS IN STORM WATER DISCHARGES. RUNOFF FROM CONSTRUCTION SITES HAS A POTENTIAL FOR POLLUTION DUE TO EXPOSED SOILS AND THE PRESENCE OF HAZARDOUS MATERIALS USED IN THE CONSTRUCTION PROCESS. THE PREVENTION OF SOIL EROSION, CONTAINMENT OF HAZARDOUS MATERIALS AND/OR THE INTERCEPTION OF THESE POLLUTANTS BEFORE LEAVING THE CONSTRUCTION SITE ARE THE BEST PRACTICES FOR CONTROLLING STORM WATER POLLUTION.

THE FOLLOWING SECTIONS OF THE 2009 ODOT STANDARD SPECIFICATIONS SHOULD BE NOTED:

- 103.05 BONDING REQUIREMENTS
- 104.10 FINAL CLEANING UP
- 104.12 CONTRACTOR'S RESPONSIBILITY FOR WORK
- 104.13 ENVIRONMENTAL PROTECTION
- 106.08 STORAGE AND HANDLING OF MATERIAL
- 107.01 LAWS, RULES AND REGULATIONS TO BE OBSERVED
- 107.20 STORM WATER MANAGEMENT
- 220 MANAGEMENT OF EROSION, SEDIMENTATION AND STORM WATER POLLUTION PREVENTION AND CONTROL
- 221 TEMPORARY SEDIMENT CONTROL

IN ADDITION:

"ODEQ GENERAL PERMIT (OKR10) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES WITHIN THE STATE OF OKLAHOMA." ODEQ, WATER QUALITY DIVISION, SEPTEMBER 13, 2017.

DESIGN			OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION	
DRAWN			STORM WATER MANAGEMENT PLAN	
CHECKED				
APPROVED				
SQUAD	POE			
COUNTY OKLAHOMA		HIGHWAY I-35/I-40		STATE JOB NO. 30444(06) SHEET NO. 13

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U.S. ARMY CORPS OF ENGINEERS SECTION 404 PERMIT CONDITIONS

POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION			REVISIONS		DATE

404 PERMIT INFORMATION

NATIONWIDE PERMIT NO. _____

TO BE PROVIDED AT A LATER DATE

SECTION 404 OF THE CLEAN WATER ACT REQUIRES PRIOR AUTHORIZATION FROM SECRETARY OF THE ARMY (CORPS) FOR THE DISCHARGE OF DREDGED OR FILL MATERIAL INTO WATERS OF THE UNITED STATES.

NO PRE-CONSTRUCTION NOTIFICATION REQUIRED: PROJECT DOES NOT REQUIRE NOTIFICATION TO THE US ARMY CORPS OF ENGINEERS (USACE) IN ORDER TO COMMENCE.

PRE-CONSTRUCTION NOTIFICATION REQUIRED: RESIDENT ENGINEER MUST NOTIFY THE USACE WITHIN 30 DAYS OF THE START OF CONSTRUCTION AND 30 DAYS PRIOR TO COMPLETION OF CONSTRUCTION, FORMS LOCATED IN THE CONTRACT.

INDIVIDUAL PERMIT: WILL BE MONITORED CLOSELY BY THE USACE.

GENERAL PERMIT: PROJECT WITHIN A DESIGNATED CRITICAL RESOURCE WATER AND WILL REQUIRE PRE-CONSTRUCTION NOTIFICATION SEE ABOVE FOR EXPLANATION OF PRE-CONSTRUCTION NOTIFICATION.

NO PERMIT REQUIRED

SWT TRACKING NO. _____

PERMIT GENERAL CONDITIONS

THE CONTRACTOR SHALL BE RESPONSIBLE BUT NOT LIMITED TO THE FOLLOWING HIGHLIGHTS OF THE 404 PERMIT (SEE CONTRACT FOR COMPLETE LIST):

TEMPORARY FILLS:
APPROPRIATE MEASURES MUST BE TAKEN TO MAINTAIN NORMAL DOWNSTREAM FLOWS AND MINIMIZE FLOODING TO THE MAXIMUM EXTENT PRACTICABLE. WHEN TEMPORARY STRUCTURES (WORK ROADS, WORKPADS, ETC.) WORK, AND DISCHARGES, INCLUDING COFFERDAMS, ARE NECESSARY FOR CONSTRUCTION ACTIVITIES, ACCESS FILLS, OR DEWATERING OF CONSTRUCTION SITES. TEMPORARY FILLS MUST CONSIST OF MATERIALS, AND BE PLACED IN A MANNER, THAT WILL NOT BE ERODED BY EXPECTED HIGH FLOWS. TEMPORARY FILLS MUST BE REMOVED IN THEIR ENTIRETY AND THE AFFECTED AREAS RETURNED TO PRE-CONSTRUCTION ELEVATIONS. THE AREAS AFFECTED BY TEMPORARY FILLS MUST BE RE VEGETATED, AS APPROPRIATE.

NAVIGATION:
NO ACTIVITY MAY CAUSE MORE THAN A MINIMAL ADVERSE EFFECT ON NAVIGATION WITHIN A NAVIGABLE WATER OF THE U.S. IF THIS PROJECT IS LOCATED WITHIN A NAVIGABLE WATER OF THE U.S., IT WILL BE IDENTIFIED IN THE SPECIAL CONDITIONS.

AQUATIC LIFE MOVEMENTS & ADVERSE EFFECTS FROM IMPOUNDMENTS:
NO ACTIVITY MAY LARGELY DISRUPT THE NECESSARY LIFE CYCLE MOVEMENTS OF THOSE SPECIES INDIGENOUS TO THE BODY OF WATER, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA. CULVERTS WILL BE DESIGNED TO PROVIDE SUFFICIENT PASSAGE FOR AQUATIC LIFE AND INSTALLED TO MAINTAIN LOW FLOW. RATE OF FLOW CANNOT BE MADE HIGHER THAN WHAT WAS PRIOR TO THE START OF CONSTRUCTION. EROSION CONTROL MEASURES SHOULD BE UTILIZED AROUND THE PERIMETER OF NEW STRUCTURES TO AVOID SILT BUILD UP. CAUTION SHOULD BE TAKEN TO MINIMIZE HARM IF CONSTRUCTION ACTIVITIES TAKE PLACE WITHIN A STREAM OR RIVER CHANNEL AND CREATE A CONFINED BODY OF WATER, CAUSE ADVERSE EFFECTS TO THE AQUATIC SYSTEM IN ANY WAY, AND/OR RESTRICTING ITS FLOW.

MANAGEMENT OF WATER FLOWS:
CONSTRUCTION ACTIVITIES MAY NOT IMPEDE THE PASSAGE OF NORMAL OR HIGH FLOWS. TO THE GREATEST EXTENT POSSIBLE, THE PRE- CONSTRUCTION COURSE, CONDITIONS, CAPACITY AND LOCATION OF OPEN WATERS MUST BE MAINTAINED. THIS INCLUDES STREAM CHANNELIZATION AND STORM WATER MANAGEMENT.

SUITABLE MATERIAL:
NO ACTIVITY MAY USE UNSUITABLE MATERIAL (E.G., TRASH, DEBRIS, CAR BODIES, ASPHALT, ETC.). MATERIALS USED FOR CONSTRUCTION OR DISCHARGED MUST BE FREE FROM TOXIC POLLUTANTS IN TOXIC AMOUNTS (SEE SECTION 307 OF CLEAN WATER ACT).

PROPER MAINTENANCE
ANY AUTHORIZED STRUCTURE OR FILL SHALL BE PROPERLY MAINTAINED, INCLUDING MAINTENANCE TO ENSURE PUBLIC SAFETY AND COMPLIANCE WITH APPLICABLE NATION WIDE PERMIT GENERAL CONDITIONS, AS WELL AS ANY ACTIVITY- SPECIFIC CONDITIONS ADDED BY THE DISTRICT ENGINEER TO AN NATIONWIDE PERMIT AUTHORIZATION

HAZARDOUS MATERIALS:
HAZARDOUS MATERIALS, CHEMICALS, FUELS, LUBRICATING OILS AND OTHER SUCH SUBSTANCES SHOULD BE STORED AWAY FROM ANY STREAM OR RIVER CHANNEL (SEE SECTION 307 OF CLEAN WATER ACT)

EQUIPMENT:
HEAVY EQUIPMENT WORKING IN WETLANDS OR MUDFLATS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE; FOR EXAMPLE IF WETLANDS ARE PRESENT WITHIN THE CONSTRUCTION, THE FOOTPRINT WILL BE SHOWN ON THE PLANS. MEASURES SHOULD BE TAKEN TO PREVENT DISCHARGE INTO ANY WATERS OF THE STATE (e.g. CONCRETE WASHOUT).

SOIL EROSION AND SEDIMENT CONTROLS:
APPROPRIATE SOIL EROSION AND SEDIMENT CONTROLS MUST BE USED AND MAINTAINED IN EFFECTIVE OPERATING CONDITION DURING CONSTRUCTION, AND ALL EXPOSED SOILS AND OTHER FILLS, AS WELL AS ANY WORK WITHIN STREAM OR RIVER CHANNELS OR BANKS, MUST BE PERMANENTLY STABILIZED AS SOON AS POSSIBLE.

404 COMPLIANCE:
IN ORDER TO REMAIN COMPLIANT WITH THE 404 PERMIT, THE PROJECT MUST COMPLY WITH ALL FEDERAL ENVIRONMENTAL PROTECTION LAWS ASSOCIATED AND, THE ENVIRONMENTAL COMMITMENTS AS SHOWN ON THE PLANS. THIS INCLUDES BUT IS NOT LIMITED TO COMPLIANCE WITH ALL ENVIRONMENTAL NOTES IN THE PLANS, INCLUDING CULTURAL RESOURCES, HAZARDOUS WASTE, BIOLOGICAL FOR PROTECTED SPECIES, AND DEQ STORM WATER REGULATIONS AS THEY PERTAIN TO THE SWMP SHEET WITHIN THE PLANS. ALL OF THE 404 PERMIT GENERAL AND SPECIFIC CONDITIONS MUST BE ADHERED TO. A COPY OF THESE CONDITIONS CAN BE FOUND IN THE CONTRACT WITH THE 404 PERMIT.

PERMIT GENERAL CONDITIONS

FUELING:
ALL FUELING AND SERVICING OF VEHICLES AND EQUIPMENT SHALL BE DONE ABOVE THE ORDINARY HIGH WATER MARK (OHWM).

MATERIAL STORAGE:
STORE MATERIAL AND FUEL OUTSIDE OF THE ORDINARY HIGH WATER MARK OR ANY AREA LIKELY TO FLOOD.

DEBRIS STORAGE:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY MATERIALS, DEBRIS, OR REFUSE WHICH HAS FALLEN INTO ANY STREAM OR RIVER CHANNELS RESULTING FROM THE EXECUTION OF THE PROJECT AS SOON AS POSSIBLE

SEE NATIONWIDE PERMIT 14 IN THE CONTRACT

SPECIAL CONDITIONS

NAVIGABLE WATER OF THE U.S.

ON-SITE MITIGATION

ENDANGERED SPECIES PRESENT

HISTORIC PROPERTIES PRESENT

DESIGNATED CRITICAL RESOURCE WATERS

401 CERTIFICATION CONDITIONS

THE CONTRACTOR SHALL BE RESPONSIBLE BUT NOT LIMITED TO THE FOLLOWING HIGHLIGHTS OF THE 401 CERTIFICATION (SEE CONTRACT FOR COMPLETE LIST):

ALL SPILLS OF FUEL OR POLLUTANTS IN EXCESS OF FIVE GALLONS SHALL BE REPORTED TO ODEQ WITHIN 24 HRS AND REPORTED TO POLLUTION PREVENTION HOTLINE (1-800-522-0206)

ALL FUELING AND SERVICING OF VEHICLES AND EQUIPMENT SHALL BE DONE OUTSIDE THE ORDINARY HIGH WATER MARK

THE PERMITTEE SHALL PROVIDE ACCESS TO THE PROPERTY TO ODEQ FOR INSPECTIONS.

ANY STOCKPILE SHALL BE ABOVE ORDINARY HIGH WATER MARK AND REMOVED FROM LIKELY FLOOD ZONE

BEST MANAGEMENT PRACTICES SHOULD BE USED TO CONTROL SOIL EROSION AND MAINTAIN COMPLIANCE WITH WATER QUALITY STANDARDS.

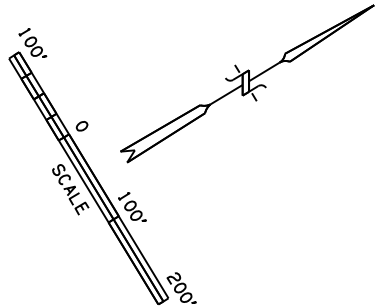
FOR ANY PROJECT THAT INVOLVES BANK STABILIZATION, THE PERMITTEE SHALL CONSIDER INSTALLING BIOENGINEERING PRACTICES IN PLACE OF STRUCTURAL PRACTICES (RIPRAP) TO MINIMIZE IMPACTS TO AQUATIC RESOURCES

DESIGN			OKLAHOMA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION		
DRAWN			<h2 style="margin: 0;">SECTION 404 PERMIT COMPLIANCE</h2>		
CHECKED					
APPROVED					
SQUAD	POE				
COUNTY OKLAHOMA			HIGHWAY I-35/I-40 STATE JOB NO. 30444(06) SHEET NO. 14		

SHEET NUMBERS: _____

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POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		



Curve No. 2- @ LINE 4
 P.I. Sta. 339+81.74
 N: 168253.0041
 E: 2119523.0070
 $\Delta = 27^\circ 34' 13.33''$ RT.
 D= 5°29'21.85"
 T= 256.08'
 L= 502.25'
 R= 1043.75'
 E= 30.96'
 V= 50 M.P.H.

Curve No. 3- Ex. Line 4
 P.I. Sta. 339+19.68
 N: 168182.6449
 E: 2119474.6280
 $\Delta = 36' 12' 45.25''$ RT.
 D= 5°29'59.93"
 T= 340.62'
 L= 658.41'
 R= 1041.75'
 E= 54.27'

Curve No. 4- Ex. Line 4
 P.I. Sta. 345+59.62
 N: 168776.1227
 E: 2119769.6662
 $\Delta = 48' 26' 10.76''$ RT.
 D= 7°59'59.90"
 T= 322.15'
 L= 605.46'
 R= 716.20'
 E= 69.12'

Curve No. 3- @ LINE 4
 P.I. Sta. 345+44.65
 N: 168765.9475
 E: 2119778.0089
 $\Delta = 48' 26' 10.77''$ RT.
 D= 8°08'10.67"
 T= 316.75'
 L= 595.31'
 R= 704.20'
 E= 67.96'
 V= 50 M.P.H.

Curve No. 5- Ex. Line 4
 P.I. Sta. 349+77.25
 N: 168895.2679
 E: 2120210.3162
 $\Delta = 16' 00' 01.78''$ RT.
 D= 5°59'41.80"
 T= 134.33'
 L= 266.90'
 R= 955.73'
 E= 9.39'

Curve No. 4- @ LINE 4
 P.I. Sta. 349+55.85
 N: 168883.2427
 E: 2120211.8165
 $\Delta = 16' 00' 01.78''$ RT.
 D= 6°04'16.24"
 T= 132.64'
 L= 263.55'
 R= 943.73'
 E= 9.28'
 V= 50 M.P.H.

Curve No. 1- @ LINE 4
 P.I. Sta. 334+79.49
 N: 167740.9367
 E: 2119533.1681
 $\Delta = 27^\circ 34' 13.33''$ RT.
 D= 5°29'21.85"
 T= 256.08'
 L= 502.25'
 R= 1043.75'
 E= 30.96'
 V= 50 M.P.H.

Curve No. 2- Ex. Line 4
 P.I. Sta. 334+08.56
 N: 167675.8408
 E: 2119561.9768
 $\Delta = 18' 55' 41.41''$ RT.
 D= 5°29'59.91"
 T= 173.66'
 L= 344.15'
 R= 1041.75'
 E= 14.38'

Curve No. 1- Ex. Roadway
 P.I. Sta. 321+19.04
 N: 166544.8162
 E: 2120181.3781
 $\Delta = 110' 40' 26.14''$ LT.
 D= 0°59'30.09"
 T= 59.39'
 L= 118.77'
 R= 5777.58'
 E= 0.31'

P.C.C. STA. 342+27.90 @ LINE 4=
 12' RT., P.C.C. STA. 342+37.47 EX. LINE 4

P.C.C. STA. 337+25.66 @ LINE 4=
 10.39' RT., P.C.C. STA. 332+29.64 EX. LINE 4

Curve No. 2- Ex. Line 3
 P.I. Sta. 342+52.63
 N: 168622.7047
 E: 2120034.1426
 $\Delta = 82' 44' 23.51''$ RT.
 D= 7°29'59.91"
 T= 672.80'
 L= 1103.20'
 R= 763.95'
 E= 254.03'

Curve No. 2- @ LINE 3
 P.I. Sta. 342+47.40
 N: 168613.5260
 E: 2119800.5244
 $\Delta = 100' 00' 50.35''$ RT.
 D= 7°29'59.91"
 T= 910.66'
 L= 1333.52'
 R= 763.95'
 E= 424.72'
 V= 50 M.P.H.

Curve No. 1- @ LINE 3
 P.I. Sta. 332+70.16
 N: 167648.8555
 E: 2119958.8734
 $\Delta = 10^\circ 00' 44.18''$ RT.
 D= 7°29'59.91"
 T= 66.92'
 L= 133.50'
 R= 763.95'
 E= 2.93'
 V= 50 M.P.H.

Curve No. 1- Ex. Line 3
 P.I. Sta. 334+01.44
 N: 167772.7331
 E: 2119915.4092
 $\Delta = 27' 17' 11.02''$ RT.
 D= 7°29'59.90"
 T= 185.43'
 L= 363.82'
 R= 763.95'
 E= 22.18'

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DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

GEOMETRIC LAYOUT
 SHEET 1 OF 4

STATE JOB NO. 304441061 SHEET NO. 15
 OKLAHOMA COUNTY

FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				

DESCRIPTION	REVISIONS	DATE
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Horizontal Alignment Name: EX. LINE 1

Element: Linear
 P.O.B. STA. (148) 300+00.00 168890.6617 2123648.8580
 P.I. STA. (138) 310+94.46 168766.5157 2122561.4570
 Tangent Direction: S 83°29'12.76" W
 Tangent Length: 1094.46

Element: Linear
 P.I. STA. (138) 310+94.46 168766.5157 2122561.4570
 P.C. STA. (142) 313+80.20 168734.1047 2122277.5690
 Tangent Direction: S 83°29'12.63" W
 Tangent Length: 285.73

Element: Circular
 P.C. STA. (142) 313+80.20 168734.1047 2122277.5690
 P.I. STA. () 321+01.69 168652.2673 2121560.7348
 C.C. (143) 180119.3417 2120977.7730
 P.T. STA. (144) 328+21.22 168660.9817 2120839.3540
 Radius: 11459.19
 Delta: 7°12'18.31" Right
 Degree of Curve: 0°29'59.99"
 Length: 1441.02
 Tangent: 721.46
 Chord: 1440.07
 Middle Ordinate: 22.64
 External: 22.69
 Tangent Direction: S 83°29'13.28" W
 Radial Direction: N 6°30'46.72" W
 Chord Direction: S 87°05'21.92" E
 Radial Direction: N 0°41'31.59" E
 Tangent Direction: N 89°18'28.41" W

Element: Linear
 P.T. STA. (144) 328+21.22 168660.9817 2120839.3540
 P.C. STA. (145) 365+36.32 168705.8477 2117124.5190
 Tangent Direction: N 89°18'28.95" W
 Tangent Length: 3715.11

Element: Circular
 P.C. STA. (145) 365+36.32 168705.8477 2117124.5190
 P.I. STA. () 367+39.10 168708.2971 2116921.7555
 C.C. STA. (146) 145789.1217 2116847.6850
 P.T. STA. (147) 369+42.26 168707.1527 2116718.5920
 Radius: 22918.40
 Delta: 1°00'53.40" Left
 Degree of Curve: 0°15'00.00"
 Length: 405.93
 Tangent: 202.97
 Chord: 405.93
 Middle Ordinate: 0.90
 External: 0.90
 Tangent Direction: N 89°18'28.44" W
 Radial Direction: N 0°41'31.56" E
 Chord Direction: N 89°48'56.89" W
 Radial Direction: N 0°19'21.84" W
 Tangent Direction: S 89°40'38.16" W

Element: Linear
 P.T. STA. (147) 369+42.26 168707.1527 2116718.5920
 P.I. STA. (141) 372+39.29 168705.4767 2116421.5710
 Tangent Direction: S 89°40'36.12" W
 Tangent Length: 297.03

Element: Linear
 P.I. STA. (141) 372+39.29 168705.4767 2116421.5710
 P.O.E. STA. (152) 376+39.28 168703.2207 2116021.5780
 Tangent Direction: S 89°40'36.66" W
 Tangent Length: 400.00

Horizontal Alignment Name: EX. LINE 3

Element: Linear
 P.O.B. STA. (2114) 322+51.94 166688.0587 2120295.9798
 P.C. STA. (102) 332+16.01 167597.7627 2119976.8000
 Tangent Direction: N 19°20'02.38" W
 Tangent Length: 964.07

Element: Circular
 P.C. STA. (102) 332+16.01 167597.7627 2119976.8000
 P.I. STA. () 334+01.44 167772.7331 2119915.4092
 C.C. STA. (106) 167850.6877 2120697.6630
 P.C.C. STA. (2240) 335+79.83 167956.3780 2119941.0627
 Radius: 763.95
 Delta: 27°17'11.02" Right
 Degree of Curvature(Arc): 7°29'59.90"
 Length: 363.82
 Tangent: 185.43
 Chord: 360.39
 Middle Ordinate: 21.56
 External: 22.18
 Tangent Direction: N 19°20'02.92" W
 Radial Direction: N 70°39'57.08" E
 Chord Direction: N 5°41'27.38" W
 Radial Direction: S 82°02'51.90" E
 Tangent Direction: N 7°57'08.10" E

Element: Circular
 P.C.C. STA. (2240) 335+79.83 167956.3780 2119941.0627
 P.I. STA. () 342+52.63 168622.7047 2120034.1426
 C.C. STA. (106) 167850.6877 2120697.6630
 P.T. STA. (104) 346+83.03 168614.5777 2120706.8910
 Radius: 763.95
 Delta: 82°44'23.51" Right
 Degree of Curvature(Arc): 7°29'59.91"
 Length: 1103.20
 Tangent: 672.80
 Chord: 1009.81
 Middle Ordinate: 190.64
 External: 254.03
 Tangent Direction: N 7°57'08.10" E
 Radial Direction: S 82°02'51.90" E
 Chord Direction: N 49°19'19.99" E
 Radial Direction: S 0°41'31.61" W
 Tangent Direction: S 89°18'28.39" E

Horizontal Alignment Name: EX. LINE 2

Element: Linear
 P.O.B. STA. (158) 300+00.00 168905.8587 2123649.7270
 P.C. STA. (155) 301+19.20 168892.3377 2123531.2950
 Tangent Direction: S 83°29'12.93" W
 Tangent Length: 119.20

Element: Circular
 P.C. STA. (155) 301+19.20 168892.3377 2123531.2950
 P.I. STA. () 304+88.90 168850.4036 2123163.9854
 C.C. STA. (156) 174584.9557 2122881.3940
 P.T. STA. (157) 308+57.54 168856.0187 2122794.3630
 Radius: 5729.60
 Delta: 7°23'00.05" Right
 Degree of Curvature(Arc): 0°59'59.99"
 Length: 738.34
 Tangent: 369.68
 Chord: 737.83
 Middle Ordinate: 11.89
 External: 11.91
 Tangent Direction: S 83°29'13.18" W
 Radial Direction: N 6°30'46.82" W
 Chord Direction: S 87°10'42.65" W
 Radial Direction: N 0°52'13.23" E
 Tangent Direction: N 89°07'46.77" W

Element: Linear
 P.T. STA. (157) 308+57.54 168856.0187 2122794.3630
 P.O.E. STA. (159) 331+70.11 168891.1397 2120482.0600
 Tangent Direction: N 89°07'47.34" W
 Tangent Length: 2312.57

Horizontal Alignment Name: EX. LINE 4

Element: Circular
 P.C. STA. (2116) 320+59.65 166492.1506 2120208.8283
 P.I. STA. () 321+19.04 166544.8162 2120181.3781
 C.C. STA. (213) 163821.7444 2115085.4163
 P.T. STA. (2019) 321+78.42 166596.9028 2120152.8531
 Radius: 5777.58
 Delta: 1°10'40.26" Left
 Degree of Curvature(Arc): 0°59'30.09"
 Length: 118.77
 Tangent: 59.39
 Chord: 118.77
 Middle Ordinate: 0.31
 External: 0.31
 Tangent Direction: N 27°31'45.35" W
 Radial Direction: N 62°28'14.65" E
 Chord Direction: N 28°07'05.41" E
 Radial Direction: N 61°17'34.39" E
 Tangent Direction: N 28°42'25.61" W

Element: Linear
 P.T. STA. (2019) 321+78.42 166596.9028 2120152.8531
 P.C. STA. (154) 332+34.91 167523.5287 2119645.3900
 Tangent Direction: N 28°42'25.73" W
 Tangent Length: 1056.48

Element: Circular
 P.C. STA. (154) 332+34.91 167523.5287 2119645.3900
 P.I. STA. () 334+08.56 167675.8408 2119561.9768
 C.C. STA. (167) 168023.9137 2120559.0910
 P.C.C. STA. (2244) 335+79.06 167846.9752 2119532.4814
 Radius: 1041.75
 Delta: 18°55'41.41" Right
 Degree of Curvature(Arc): 5°29'59.91"
 Length: 344.15
 Tangent: 173.66
 Chord: 342.59
 Middle Ordinate: 14.18
 External: 14.38
 Tangent Direction: N 28°42'25.76" W
 Radial Direction: N 61°17'34.24" E
 Chord Direction: N 19°14'35.00" W
 Radial Direction: N 80°13'15.65" E
 Tangent Direction: N 9°46'44.35" W

Element: Circular
 P.C.C. STA. (2244) 335+79.06 167846.9752 2119532.4814
 P.I. STA. () 339+19.68 168182.6449 2119474.6280
 C.C. STA. (167) 168023.9137 2120559.0910
 P.C.C. STA. (168) 342+37.47 168487.6567 2119626.2600
 Radius: 1041.75
 Delta: 36°12'45.25" Right
 Degree of Curvature(Arc): 5°29'59.93"
 Length: 658.41
 Tangent: 340.62
 Chord: 647.51
 Middle Ordinate: 51.59
 External: 54.27
 Tangent Direction: N 9°46'44.35" W
 Radial Direction: N 80°13'15.65" E
 Chord Direction: N 8°19'38.74" E
 Radial Direction: S 63°33'59.11" E
 Tangent Direction: N 26°26'00.89" E

Element: Circular
 P.C.C. STA. (168) 342+37.47 168487.6567 2119626.2600
 P.I. STA. () 345+59.62 168776.1227 2119769.6662
 C.C. STA. (172) 168168.8337 2120267.5820
 P.C.C. STA. (173) 348+42.93 168860.2067 2120080.6450
 Radius: 716.20
 Delta: 48°26'10.76" Right
 Degree of Curvature(Arc): 7°59'59.90"
 Length: 605.46
 Tangent: 322.15
 Chord: 587.59
 Middle Ordinate: 63.03
 External: 69.12
 Tangent Direction: N 26°26'00.73" E
 Radial Direction: S 63°33'59.27" E
 Chord Direction: N 50°39'06.10" E
 Radial Direction: S 15°07'48.51" E
 Tangent Direction: N 74°52'11.49" E

Element: Circular
 P.C.C. STA. (173) 348+42.93 168860.2067 2120080.6450
 P.I. STA. () 349+77.25 168895.2679 2120210.3162
 C.C. STA. (165) 167937.6027 2120330.1040
 P.T. STA. (166) 351+09.83 168893.2277 2120344.6210
 Radius: 955.73
 Delta: 16°00'01.78" Right
 Degree of Curvature(Arc): 5°59'41.80"
 Length: 266.90
 Tangent: 134.32
 Chord: 266.03
 Middle Ordinate: 9.30
 External: 9.39
 Tangent Direction: N 74°52'11.37" E
 Radial Direction: S 15°07'48.63" E
 Chord Direction: N 82°52'11.48" E
 Radial Direction: S 0°52'13.15" W
 Tangent Direction: S 89°07'46.85" E

Horizontal Alignment Name: EX. LINE 4 CONT.

Element: Linear
 P.T. STA. (166) 351+09.83 168893.2277 2120344.6210
 P.O.E. STA. (159) 352+47.28 168891.1397 2120482.0600
 Tangent Direction: S 89°07'46.63" E
 Tangent Length: 137.45

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

GEOMETRIC LAYOUT
 SHEET 3 OF 4

FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				

DESCRIPTION	REVISIONS	DATE

Horizontal Alignment Name: LINE 4

STATION NORTHING EASTING

Element: Circular
P.C. STA. (2204) 332+23.41 167516.3290 2119656.1737
P.I. STA. () 334+79.49 167740.9367 2119533.1681
C.C. STA. (2205) 168017.6778 2120571.6347
P.C.C. STA. (2239) 337+25.66 167996.9704 2119528.0876

Radius: 1043.75
Delta: 27°34'13.33" Right
Degree of Curvature(Arc): 5°29'21.85"
Length: 502.25
Tangent: 256.08
Chord: 497.42
Middle Ordinate: 30.06
External: 30.96

Tangent Direction: N 28°42'25.76" W
Radial Direction: N 61°17'34.24" E
Chord Direction: N 14°55'19.08" W
Radial Direction: N 88°51'47.57" E
Tangent Direction: N 1°08'12.43" W

Element: Circular
P.C. STA. (2239) 337+25.66 167996.9704 2119528.0876
P.I. STA. () 339+81.74 168253.0041 2119523.0070
C.C. STA. (2205) 168017.6778 2120571.6347
P.C.C. STA. (2189) 342+27.90 168482.3148 2119637.0054

Radius: 1043.75
Delta: 27°34'13.33" Right
Degree of Curvature(Arc): 5°29'21.85"
Length: 502.25
Tangent: 256.08
Chord: 497.42
Middle Ordinate: 30.06
External: 30.96

Tangent Direction: N 1°08'12.43" W
Radial Direction: N 88°51'47.57" E
Chord Direction: N 12°38'54.22" E
Radial Direction: S 63°33'59.11" E
Tangent Direction: N 26°26'00.89" E

Element: Circular
P.C. STA. (2189) 342+27.90 168482.3148 2119637.0054
P.I. STA. () 345+44.65 168765.9475 2119778.0089
C.C. STA. (172) 168168.8337 2120267.5820
P.C.C. STA. (2193) 348+23.22 168848.6227 2120083.7771

Radius: 704.20
Delta: 48°26'10.77" Right
Degree of Curvature(Arc): 8°08'10.67"
Length: 595.31
Tangent: 316.75
Chord: 577.74
Middle Ordinate: 61.98
External: 67.96

Tangent Direction: N 26°26'00.72" E
Radial Direction: S 63°33'59.28" E
Chord Direction: N 50°39'06.09" E
Radial Direction: S 15°07'48.51" E
Tangent Direction: N 74°52'11.49" E

Element: Circular
P.C. STA. (2193) 348+23.22 168848.6227 2120083.7771
P.I. STA. () 349+55.85 168883.2427 2120211.8165
C.C. STA. (165) 167937.6027 2120330.1040
P.T. STA. (2194) 350+86.76 168881.2280 2120344.4387

Radius: 943.73
Delta: 16°00'01.78" Right
Degree of Curvature(Arc): 6°04'16.24"
Length: 263.55
Tangent: 132.64
Chord: 262.69
Middle Ordinate: 9.18
External: 9.28

Tangent Direction: N 74°52'11.37" E
Radial Direction: S 15°07'48.63" E
Chord Direction: N 82°52'12.29" E
Radial Direction: S 0°52'13.15" W
Tangent Direction: S 89°07'46.85" E

Element: Linear
P.T. STA. (2194) 350+86.76 168881.2280 2120344.4387
P.I. STA. (2256) 372+36.79 168848.5754 2122494.2154
Tangent Direction: S 89°07'47.32" E
Tangent Length: 2150.02

Element: Linear
P.I. STA. (2256) 372+36.79 168848.5754 2122494.2154
P.O.E. STA. (6622) 374+74.70 168857.0410 2122731.9752
Tangent Direction: N 87°57'38.93" E
Tangent Length: 237.91

Horizontal Alignment Name: LINE 3

STATION NORTHING EASTING

Element: Circular
P.C. STA. (2231) 332+03.24 167585.7104 2119981.0287
P.I. STA. () 332+70.16 167648.8555 2119958.8734
C.C. STA. (2230) 167838.6353 2120701.8913
P.C.C. STA. (2238) 333+36.74 167714.8909 2119948.0338

Radius: 763.95
Delta: 10°00'44.18" Right
Degree of Curvature(Arc): 7°29'59.91"
Length: 133.50
Tangent: 66.92
Chord: 133.33
Middle Ordinate: 2.91
External: 2.93

Tangent Direction: N 19°20'02.92" W
Radial Direction: N 70°39'57.08" E
Chord Direction: N 14°19'40.83" W
Radial Direction: N 80°40'41.26" E
Tangent Direction: N 9°19'18.74" W

Element: Circular
P.C. STA. (2238) 333+36.74 167714.8909 2119948.0338
P.I. STA. () 342+47.40 168613.5260 2119800.5244
C.C. STA. (2230) 167838.6353 2120701.8913
P.T. STA. (2232) 346+70.26 168602.5257 2120711.1193

Radius: 763.95
Delta: 100°00'50.35" Right
Degree of Curvature(Arc): 7°29'59.91"
Length: 1333.52
Tangent: 910.66
Chord: 1170.55
Middle Ordinate: 272.96
External: 424.72

Tangent Direction: N 9°19'18.74" W
Radial Direction: N 80°40'41.26" E
Chord Direction: N 40°41'06.44" E
Radial Direction: S 0°41'31.61" W
Tangent Direction: S 89°18'28.39" E

Element: Linear
P.T. STA. (2232) 346+70.26 168602.5257 2120711.1193
P.I. STA. (2234) 347+97.78 168600.9854 2120838.6292
Tangent Direction: S 89°18'28.39" E
Tangent Length: 127.52

Element: Linear
P.I. STA. (2234) 347+97.78 168600.9854 2120838.6292
P.I. STA. (2248) 349+33.21 168599.3409 2120974.0515
Tangent Direction: S 89°18'15.33" E
Tangent Length: 135.43

Element: Linear
P.I. STA. (2248) 349+33.21 168599.3409 2120974.0515
P.C. STA. (1217) 349+33.21 168599.3409 2120974.0525
Tangent Direction: S 89°18'28.46" E
Tangent Length: 0.00

Element: Circular
P.C. STA. (1217) 349+33.21 168599.3409 2120974.0525
P.I. STA. () 356+58.47 168590.5805 2121699.2520
C.C. STA. (1218) 180117.6405 2121113.1931
P.T. STA. (1219) 363+81.81 168672.8468 2122419.8236

Radius: 11519.14
Delta: 7°12'18.89" Left
Degree of Curvature(Arc): 0°29'50.63"
Length: 1448.59
Tangent: 725.25
Chord: 1447.64
Middle Ordinate: 22.76
External: 22.81

Tangent Direction: S 89°18'28.45" E
Radial Direction: S 0°41'31.55" W
Chord Direction: N 87°05'22.10" E
Radial Direction: S 6°30'47.34" E
Tangent Direction: N 83°29'12.66" E

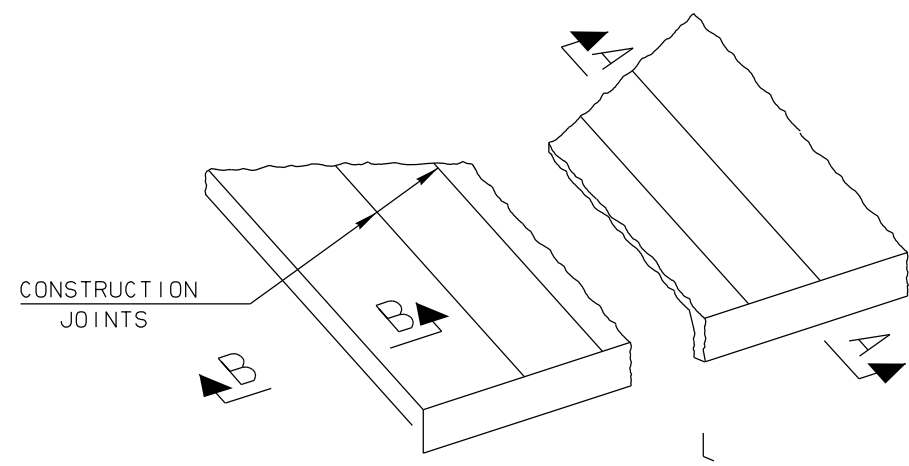
Element: Linear
P.T. STA. (1219) 363+81.81 168672.8468 2122419.8236
P.C. STA. (1220) 369+86.78 168741.4691 2123020.8874
Tangent Direction: N 83°29'12.66" E
Tangent Length: 604.97

POINT NAME	NORTHING	EASTING	ELEVATION	NAIL
1	168776.8173	2119786.1383	1174.941	NAIL
2	168589.0835	2119649.3583	1176.871	NAIL
102	167597.7627	2119976.8000	0.00	
104	168614.5777	2120706.8910	0.00	
106	167850.6877	2120697.6630	0.00	
138	168766.5157	2122561.4570	0.00	
141	168705.4767	2116421.5710	0.00	
142	168734.1047	2122277.5690	0.00	
143	180119.3417	2120977.7730	0.00	
144	168660.9817	2120839.3540	0.00	
145	168705.8477	2117124.5190	0.00	
146	145789.1217	2116847.6850	0.00	
147	168707.1527	2116718.5920	0.00	
148	168890.6617	2123648.8580	0.00	
152	168703.2207	2116021.5780	0.00	
154	167523.5287	2119645.3900	0.00	
155	168892.3377	2123531.2950	0.00	
156	174584.9557	2122881.3940	0.00	
157	168856.0187	2122794.3630	0.00	
158	168905.8587	2123649.7270	0.00	
159	168891.1397	2120482.0600	0.00	
165	167937.6027	2120330.1040	0.00	
166	168893.2277	2120344.6210	0.00	
167	168023.9137	2120559.0910	0.00	
168	168487.6567	2119626.2600	0.00	
172	168168.8337	2120267.5820	0.00	
173	168880.2067	2120080.6450	0.00	
181	168320.2627	2119516.5774	1179.186	NAIL
1216	168757.9280	2123237.2468	0.00	
1217	168599.3409	2120974.0525	0.00	
1218	180117.6405	2121113.1931	0.00	
1219	168672.8468	2122419.8236	0.00	
1220	168741.4691	2123020.8874	0.00	
1221	165895.1689	2123345.8441	0.00	
1222	168757.3903	2123224.5568	0.00	
2019	166596.9028	2120152.8531	0.00	
2116	166492.1506	2120208.8283	0.00	
2189	168482.3148	2119637.0054	0.00	
2193	168848.6227	2120083.7771	0.00	
2194	168881.2280	2120344.4387	0.00	
2204	167516.3290	2119656.1737	0.00	
2205	168017.6778	2120571.6347	0.00	
2216	168469.9138	2118824.9347	0.00	
2230	167838.6353	2120701.8913	0.00	
2231	167585.7104	2119981.0287	0.00	
2232	168602.5257	2120711.1193	0.00	
2234	168600.9854	2120838.6292	0.00	
2238	167714.8909	2119948.0338	0.00	
2239	167996.9704	2119528.0876	0.00	
2240	167956.3780	2119941.0627	0.00	
2244	167846.9752	2119532.4814	0.00	
2248	168599.3409	2120974.0515	0.00	
2256	168848.5754	2122494.2154	0.00	
6622	168857.0410	2122731.9752	0.00	

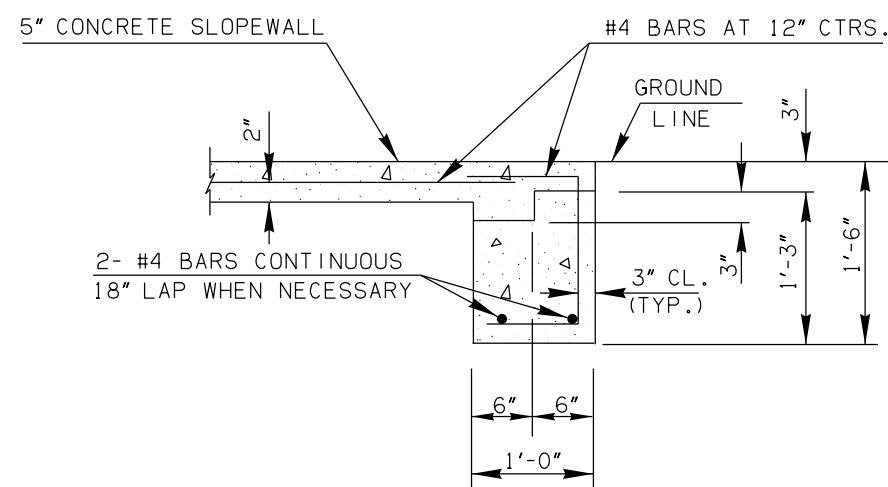
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DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

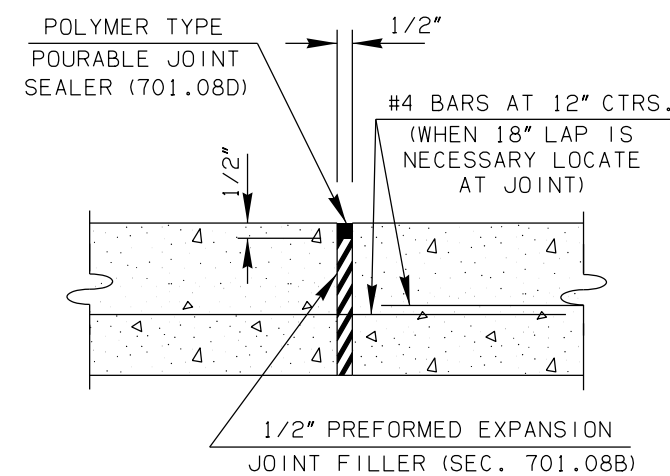
GEOMETRIC LAYOUT
SHEET 4 OF 4



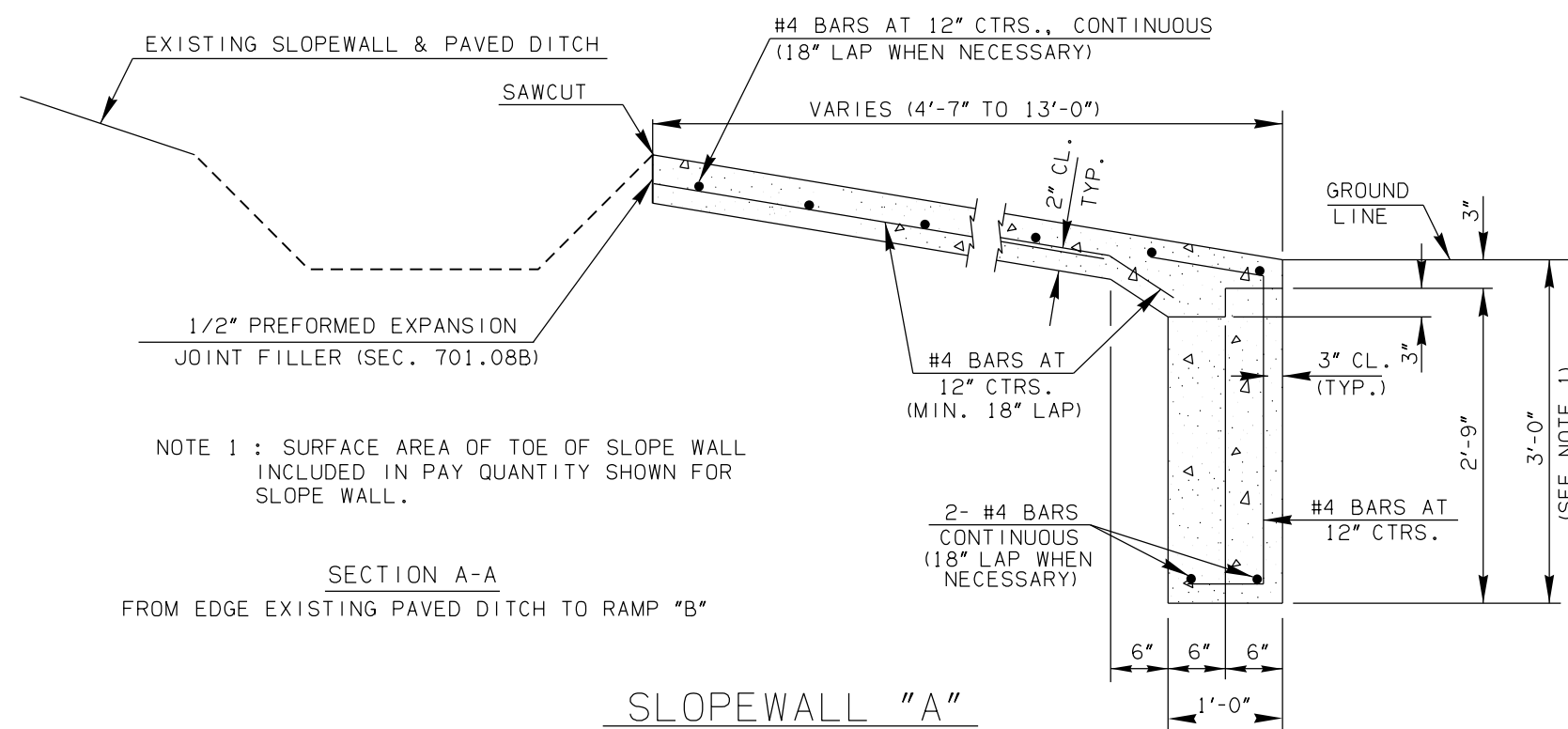
PICTORIAL VIEW WITH SECTIONS REMOVED FOR CLARIFICATION



SECTION B-B



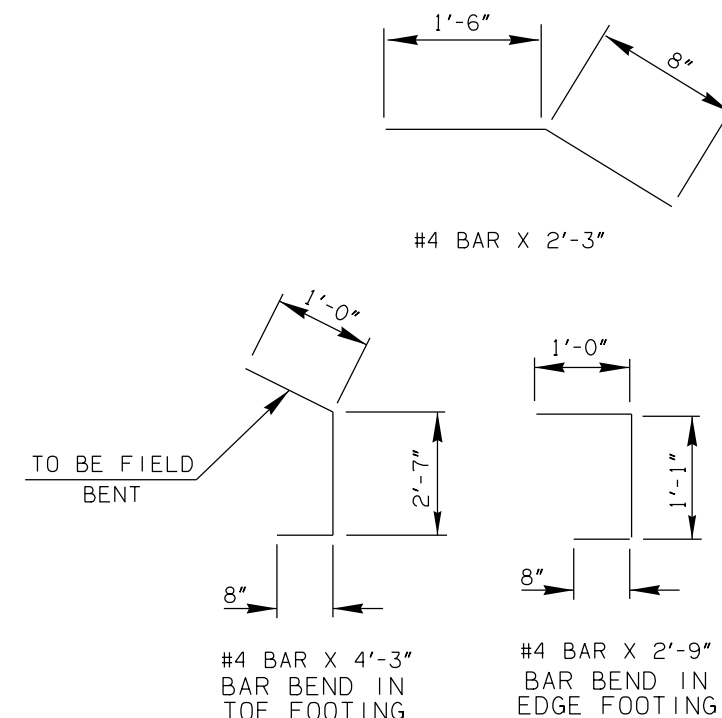
DETAIL OF VERTICAL CONSTRUCTION JOINT



SECTION A-A
FROM EDGE EXISTING PAVED DITCH TO RAMP "B"

SLOPEWALL "A"

NOTE 1 : SURFACE AREA OF TOE OF SLOPE WALL INCLUDED IN PAY QUANTITY SHOWN FOR SLOPE WALL.



CLASS A CONCRETE:
ALL CONCRETE IN THE SLOPE WALL SHALL BE CLASS A CONCRETE AND SHALL BE POURED IN THE DRY. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 509 AND 610 OF THE STANDARD SPECIFICATIONS. COARSE AGGREGATE FOR THIN SECTION CONCRETE (701.06) MAY BE USED.

CONSTRUCTION JOINTS:
NO HORIZONTAL CONSTRUCTION JOINTS WILL BE PERMITTED IN THE SLOPE WALL. FINAL NUMBER AND LOCATION OF VERTICAL CONSTRUCTION JOINTS WILL BE DETERMINED BY THE ENGINEER. JOINTS WILL HAVE A MAXIMUM SPACING OF 10'-0" MEASURED ALONG THE TOE OF THE SLOPE WALL.

BASIS OF PAYMENT:
CONCRETE SLOPE WALL WILL BE MEASURED FROM EDGE TO EDGE AND FROM TOP TO BOTTOM OF THE TOP SURFACE OF THE SLOPE WALL AND FULL FACE OF THE TOE OF THE SLOPE WALL. PAYMENT WILL BE MADE AT THE CONTRACT PRICE BID FOR:

900.03 5" CONCRETE SLOPE WALL S.Y.

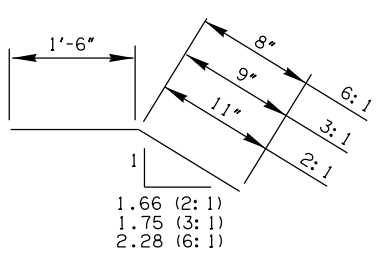
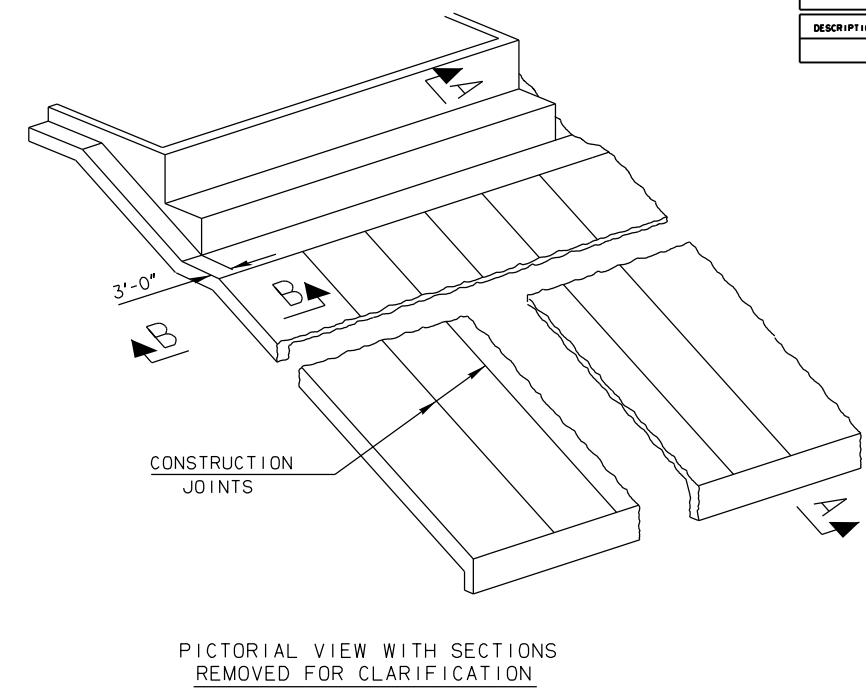
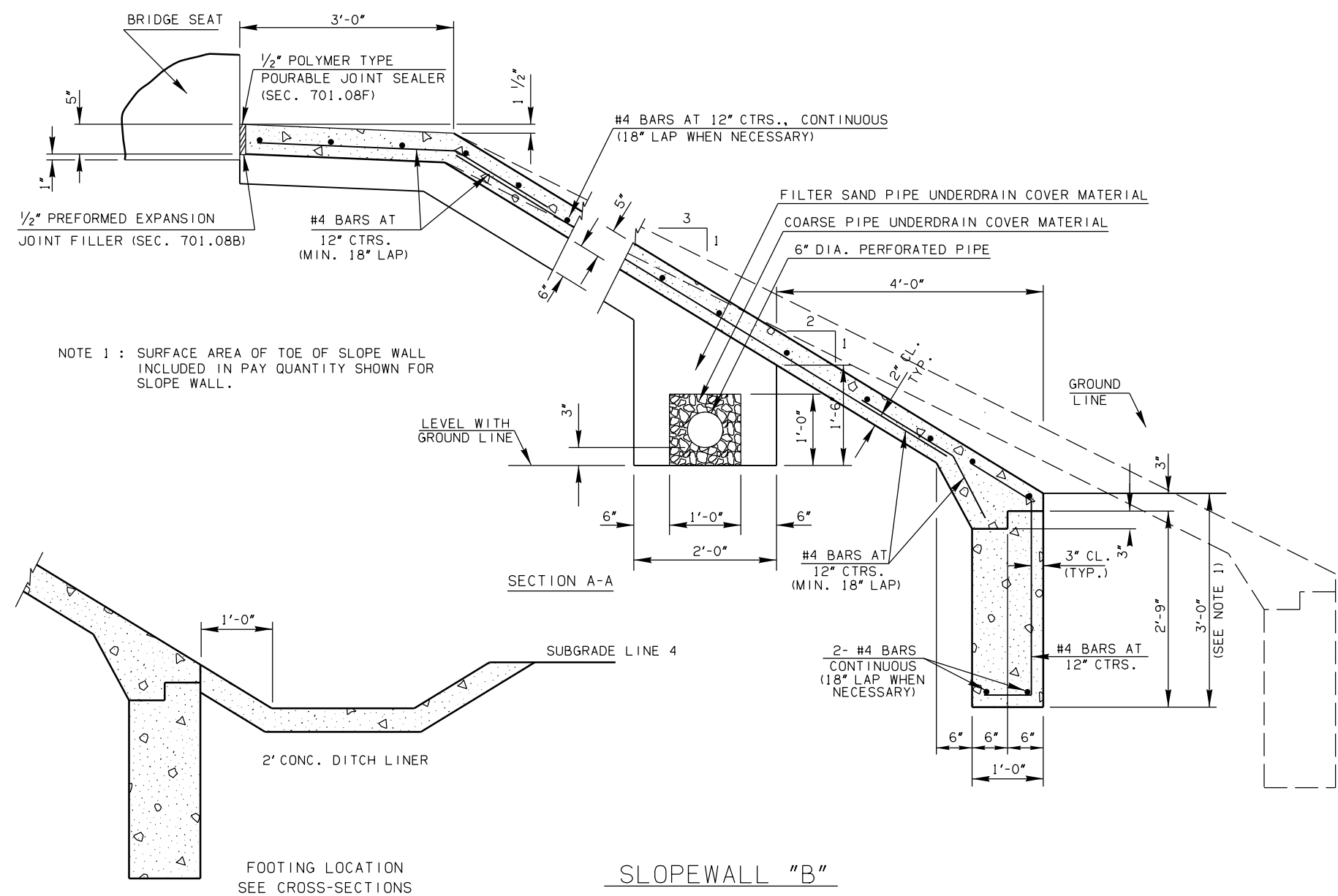
WHICH SHALL INCLUDE ALL COSTS OF JOINT SEALER AND FILLER, REINFORCING STEEL, CONCRETE, EXCAVATION, LABOR, FORMS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN AND SPECIFIED.

PAY QUANTITY			
ITEM	DESCRIPTION	UNIT	QUANTITY
510(C)	5" SLOPEWALL	S.Y.	246.3

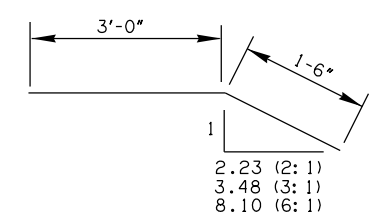
DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

LINE 3
SLOPEWALL "A" DETAILS

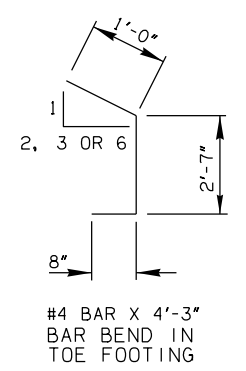
STATE JOB NO. 30444(06) SHEET NO. 19
OKLAHOMA COUNTY



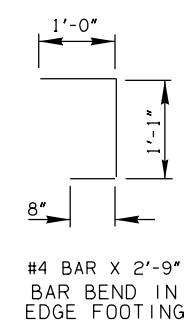
- #4 BAR X 2'-2" (2:1)
 - #4 BAR X 2'-3" (3:1)
 - #4 BAR X 2'-5" (6:1)
- BOTTOM OF SLOPE WALL



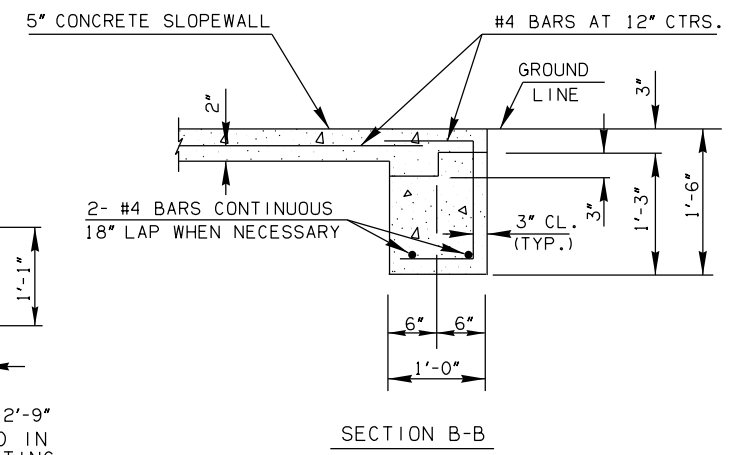
- #4 BAR X 4'-6"
- TOP OF SLOPE WALL



- #4 BAR X 4'-3"
- BAR BEND IN TOE FOOTING



- #4 BAR X 2'-9"
- BAR BEND IN EDGE FOOTING



CLASS A CONCRETE:
ALL CONCRETE IN THE SLOPE WALL SHALL BE CLASS A CONCRETE AND SHALL BE POURED IN THE DRY. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 509 AND 610 OF THE STANDARD SPECIFICATIONS. COARSE AGGREGATE FOR THIN SECTION CONCRETE (701.06) MAY BE USED.

CONSTRUCTION JOINTS:
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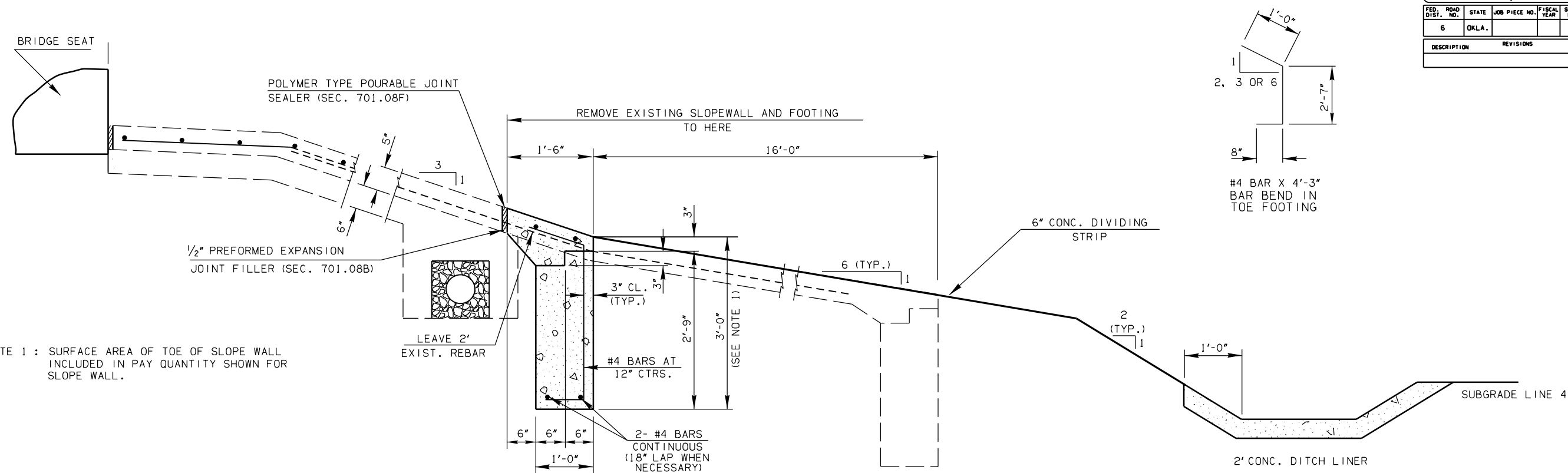
900.03 5" CONCRETE SLOPE WALL S.Y.

WHICH SHALL INCLUDE ALL COSTS OF JOINT SEALER AND FILLER, REINFORCING STEEL, CONCRETE, EXCAVATION, FILTER SAND, COARSE MATERIAL, PERFORATED PIPE, LABOR, FORMS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN AND SPECIFIED.

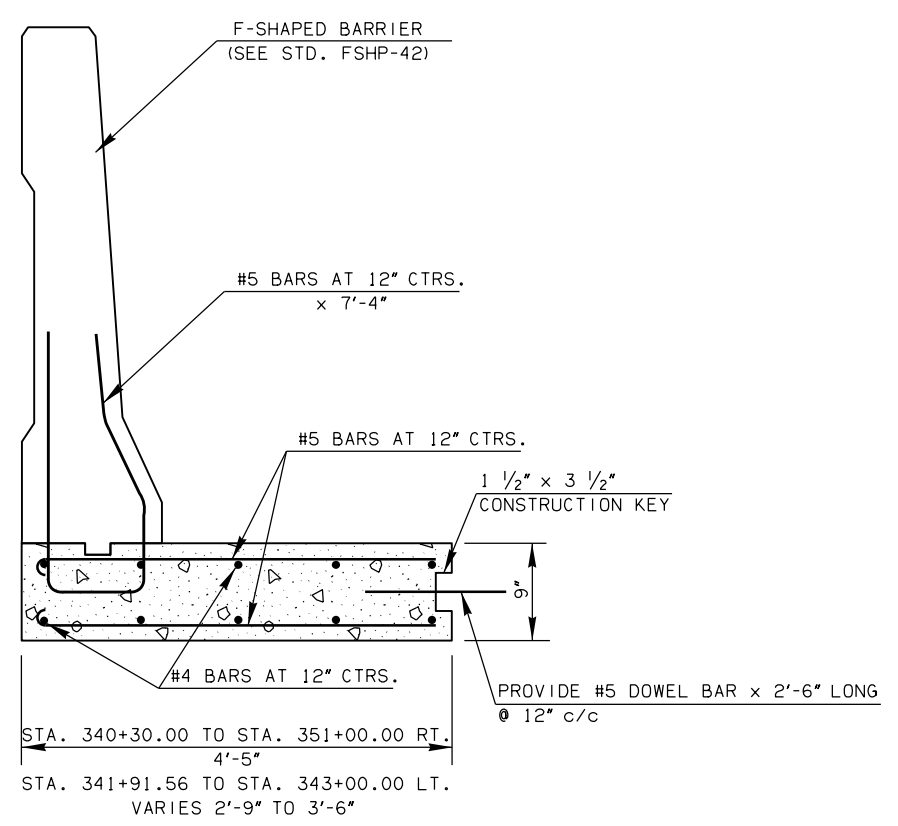
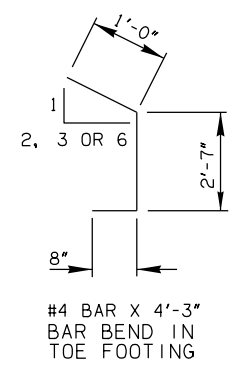
PAY QUANTITY			
ITEM	DESCRIPTION	UNIT	QUANTITY
510(C)	5" SLOPEWALL	S.Y.	442.2

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

LINE 4
SLOPEWALL "B" DETAILS
STATE JOB NO. 30444(06) SHEET NO. 20
OKLAHOMA COUNTY

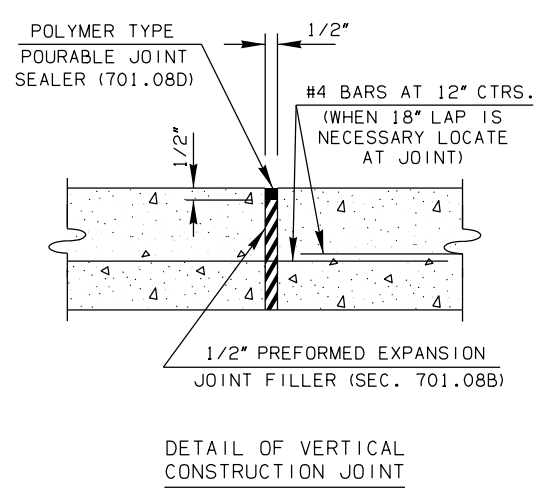


NOTE 1 : SURFACE AREA OF TOE OF SLOPE WALL INCLUDED IN PAY QUANTITY SHOWN FOR SLOPE WALL.



MOMENT SLAB
 STA. 341+91.56 TO STA. 343+00.00 LT. LINE 4
 STA. 340+30.00 TO STA. 351+00.00 RT. LINE 4

SLOPEWALL "C"



CLASS A CONCRETE:
 ALL CONCRETE IN THE SLOPE WALL SHALL BE CLASS A CONCRETE AND SHALL BE POURED IN THE DRY. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 509 AND 610 OF THE STANDARD SPECIFICATIONS. COARSE AGGREGATE FOR THIN SECTION CONCRETE (701.06) MAY BE USED.

CONSTRUCTION JOINTS:
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900.03 5" CONCRETE SLOPE WALL S.Y.

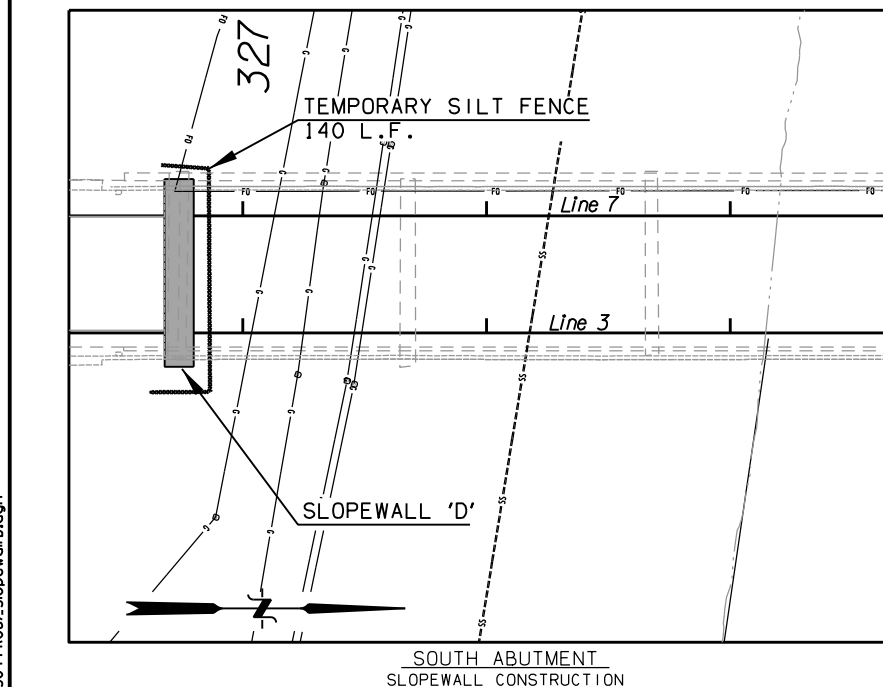
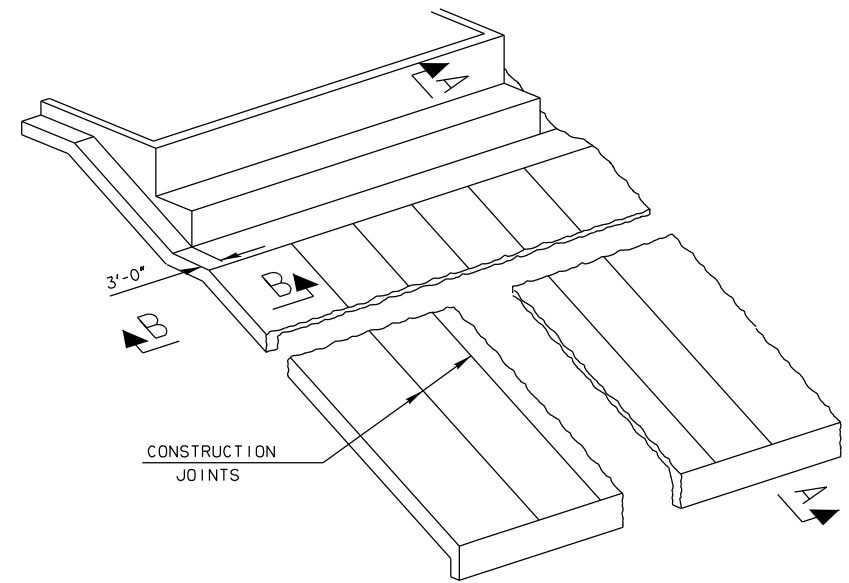
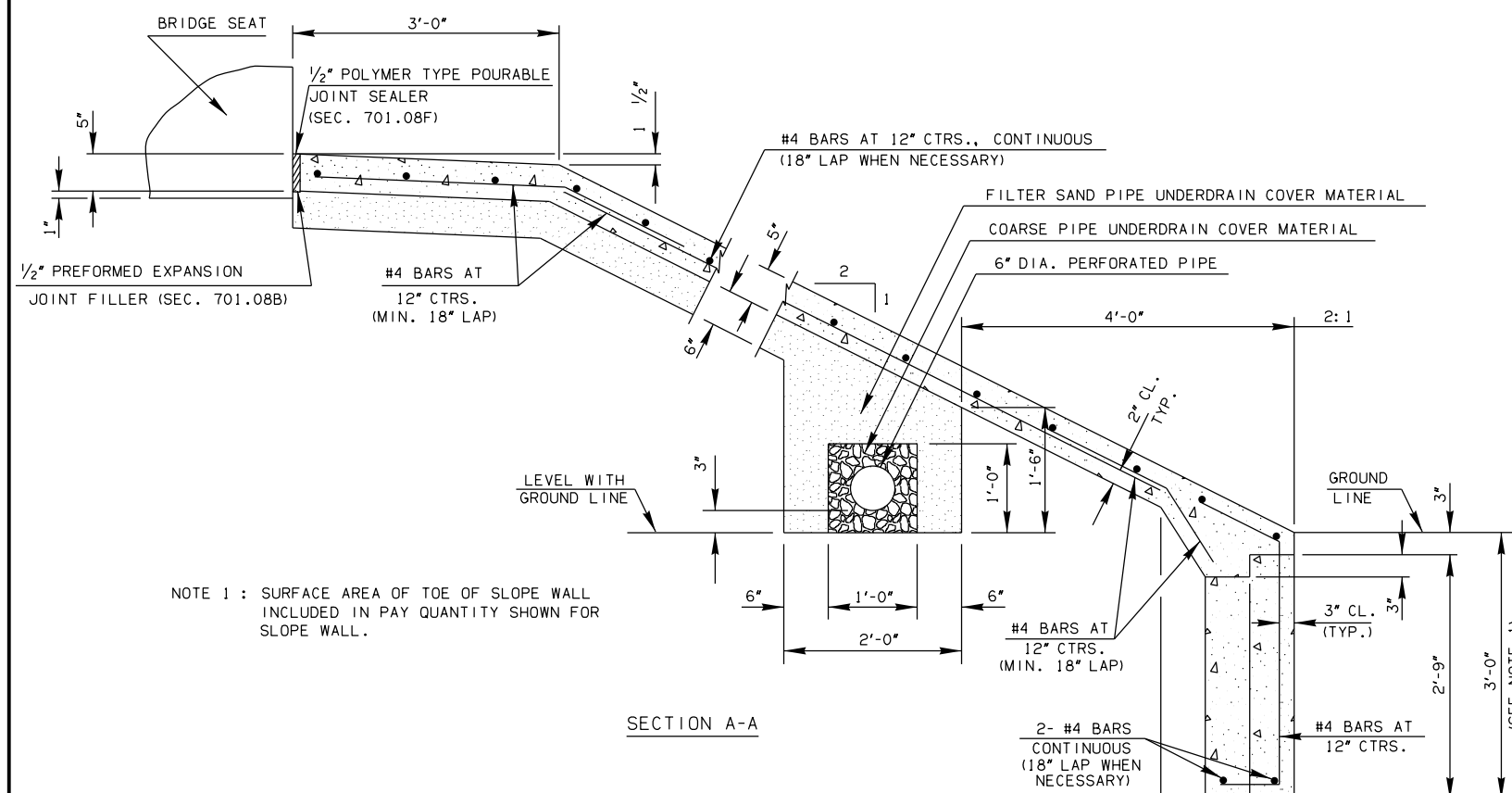
WHICH SHALL INCLUDE ALL COSTS OF JOINT SEALER AND FILLER, REINFORCING STEEL, CONCRETE, EXCAVATION, FILTER SAND, COARSE MATERIAL, PERFORATED PIPE, LABOR, FORMS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN AND SPECIFIED.

LT. QUANTITIES PER L.F.			RT. QUANTITIES PER L.F.		
509(B)	CLASS A CONCRETE	0.09 C.Y./L.F.	509(B)	CLASS A CONCRETE	0.12 C.Y./L.F.
511(A)	REINFORCING STEEL	17.90 LB./L.F.	511(A)	REINFORCING STEEL	25.30 LB./L.F.

PAY QUANTITY			
ITEM	DESCRIPTION	UNIT	QUANTITY
510(C)	5" SLOPEWALL	S.Y.	52.5

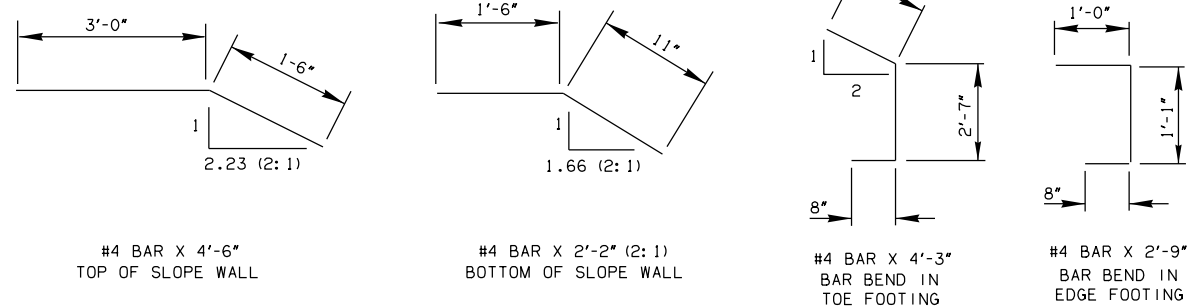
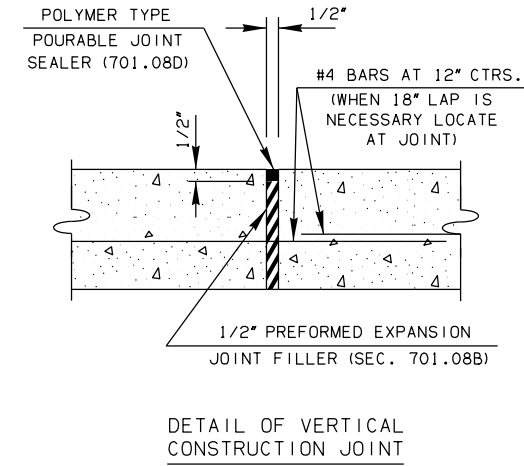
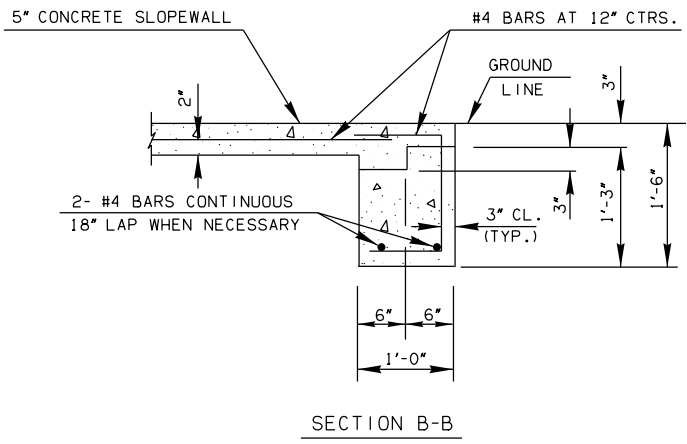
DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

LINE 4
SLOPEWALL "C" FOOTING & MOMENT SLAB DETAILS
 STATE JOB NO. 30444106 SHEET NO. 21
 OKLAHOMA COUNTY



SLOPEWALL "D"

PAY QUANTITY			
ITEM	DESCRIPTION	UNIT	QUANTITY
510(C)	5" SLOPEWALL	S.Y.	102.68



CLASS A CONCRETE:
ALL CONCRETE IN THE SLOPE WALL SHALL BE CLASS A CONCRETE AND SHALL BE POURED IN THE DRY. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 509 AND 610 OF THE STANDARD SPECIFICATIONS. COARSE AGGREGATE FOR THIN SECTION CONCRETE (701.06) MAY BE USED.

CONSTRUCTION JOINTS:
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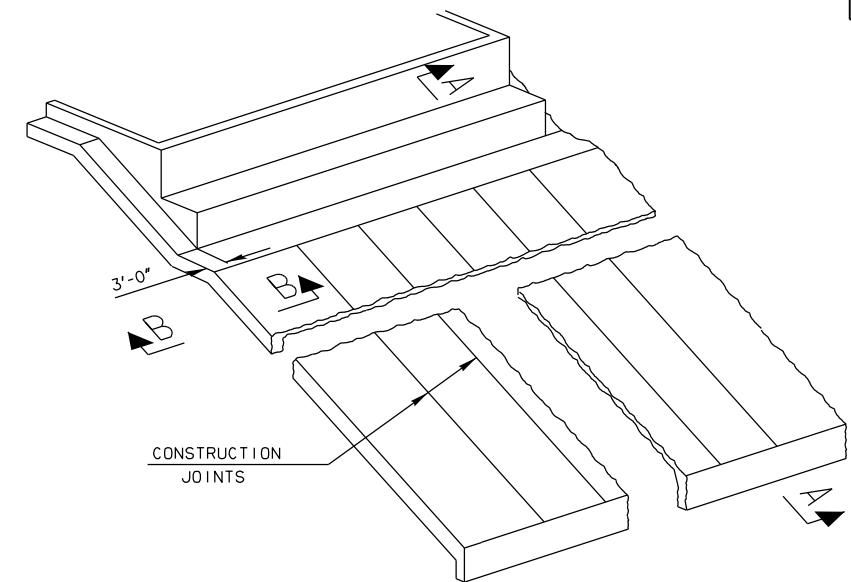
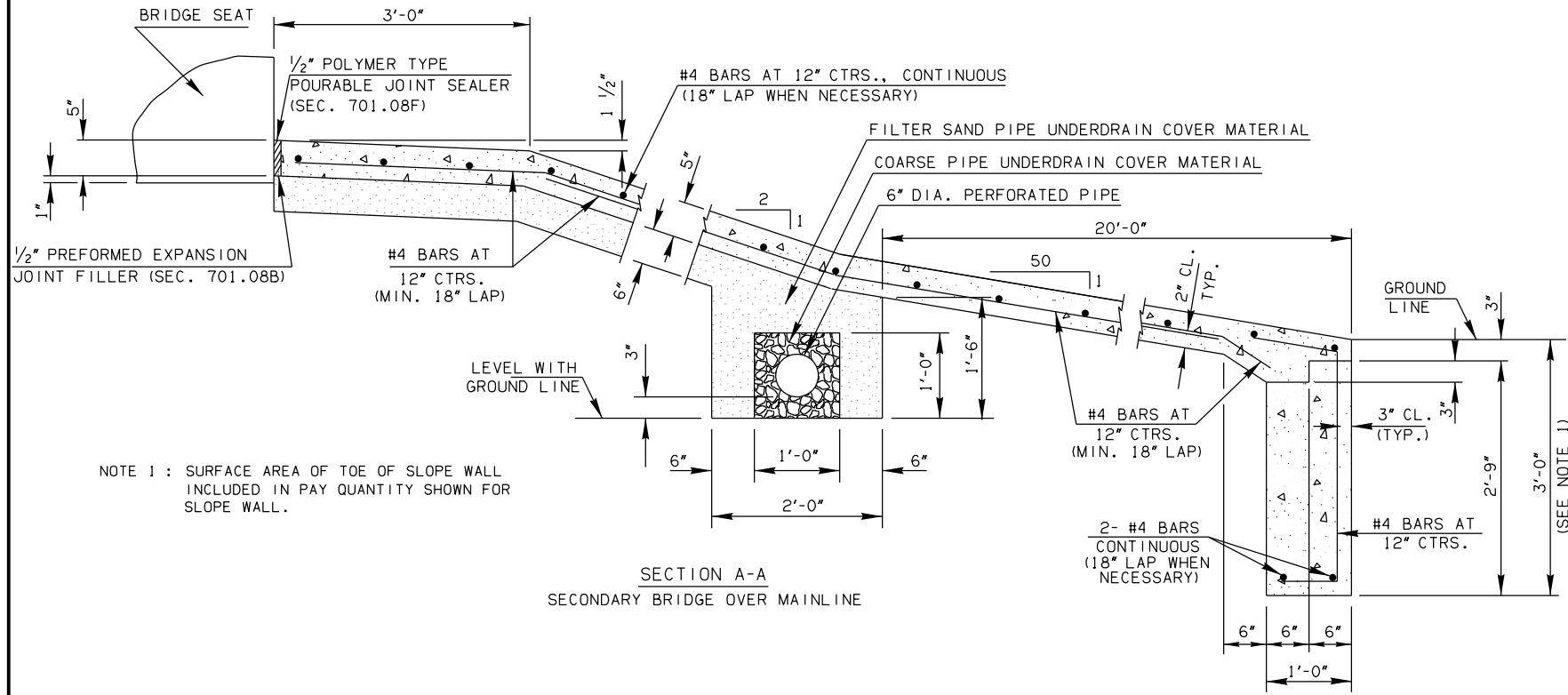
BASIS OF PAYMENT:
CONCRETE SLOPE WALL WILL BE MEASURED FROM EDGE TO EDGE AND FROM TOP TO BOTTOM OF THE TOP SURFACE OF THE SLOPE WALL AND FULL FACE OF THE TOE OF THE SLOPE WALL. PAYMENT WILL BE MADE AT THE CONTRACT PRICE BID FOR:

900.03 5" CONCRETE SLOPE WALL S.Y.

WHICH SHALL INCLUDE ALL COSTS OF JOINT SEALER AND FILLER, REINFORCING STEEL, CONCRETE, EXCAVATION, FILTER SAND, COARSE MATERIAL, PERFORATED PIPE, LABOR, FORMS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN AND SPECIFIED.

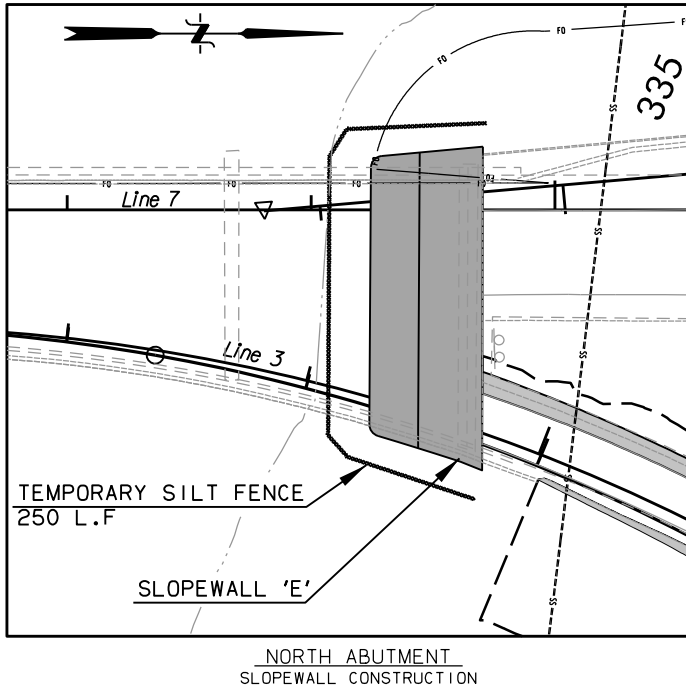
DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

NORTHBOUND I-35
SOUTH ABUTMENT
SLOPEWALL "D" DETAILS
STATE JOB NO. 30444106 SHEET NO. 22
OKLAHOMA COUNTY



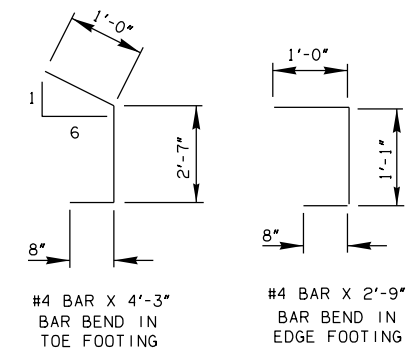
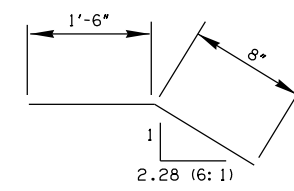
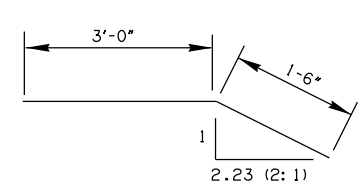
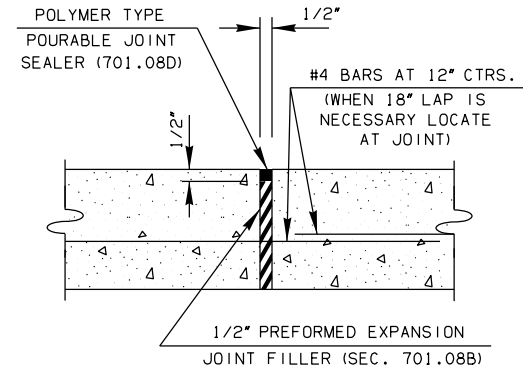
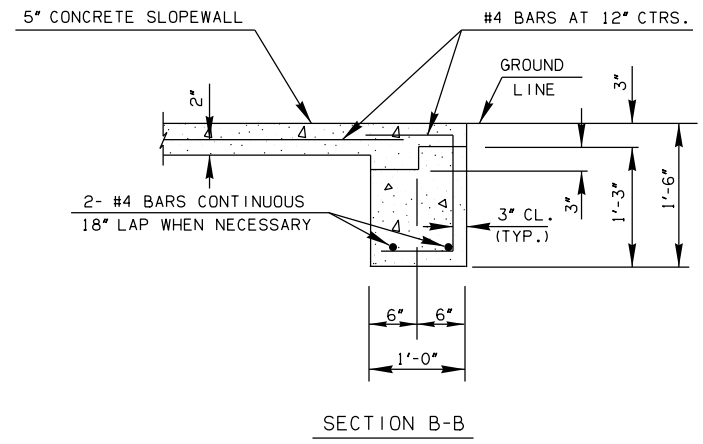
PICTORIAL VIEW WITH SECTIONS REMOVED FOR CLARIFICATION

NOTE 1 : SURFACE AREA OF TOE OF SLOPE WALL INCLUDED IN PAY QUANTITY SHOWN FOR SLOPE WALL.



SLOPEWALL "E"

PAY QUANTITY			
ITEM	DESCRIPTION	UNIT	QUANTITY
510(C)	5" SLOPEWALL	S.Y.	628.08



CLASS A CONCRETE:
ALL CONCRETE IN THE SLOPE WALL SHALL BE CLASS A CONCRETE AND SHALL BE POURED IN THE DRY. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 509 AND 610 OF THE STANDARD SPECIFICATIONS. COARSE AGGREGATE FOR THIN SECTION CONCRETE (701.06) MAY BE USED.

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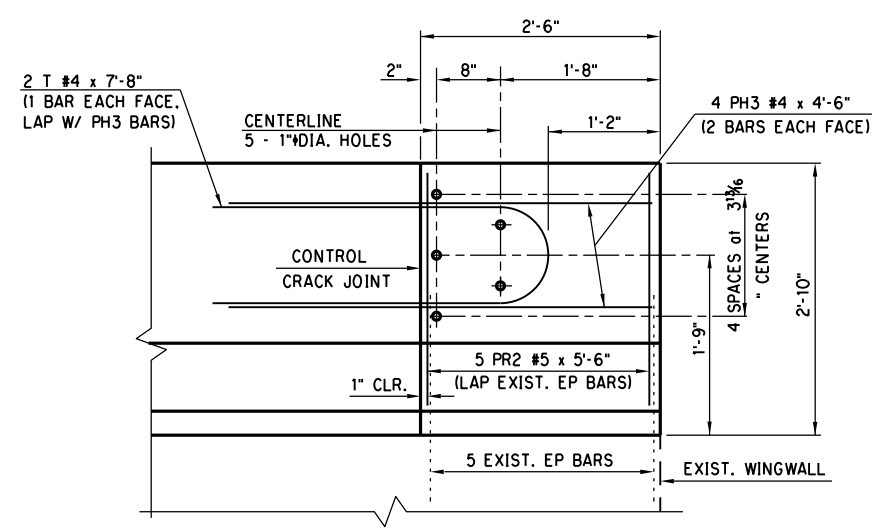
900.03 5" CONCRETE SLOPE WALL S.Y.

WHICH SHALL INCLUDE ALL COSTS OF JOINT SEALER AND FILLER, REINFORCING STEEL, CONCRETE, EXCAVATION, FILTER SAND, COARSE MATERIAL, PERFORATED PIPE, LABOR, FORMS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS SHOWN AND SPECIFIED.

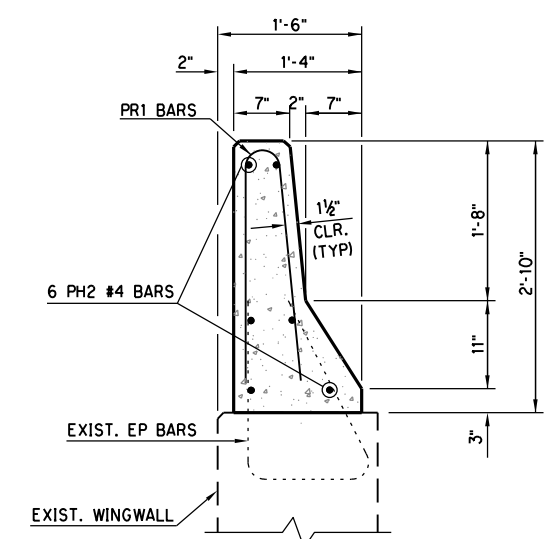
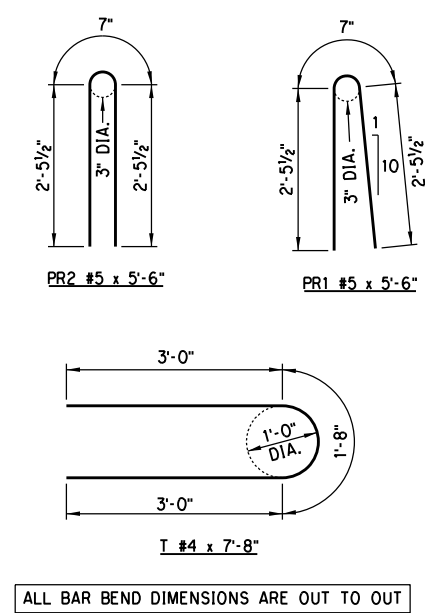
DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

NORTHBOUND I-35
NORTH ABUTMENT
SLOPEWALL "E" DETAILS
STATE JOB NO. 30444106 SHEET NO. 23

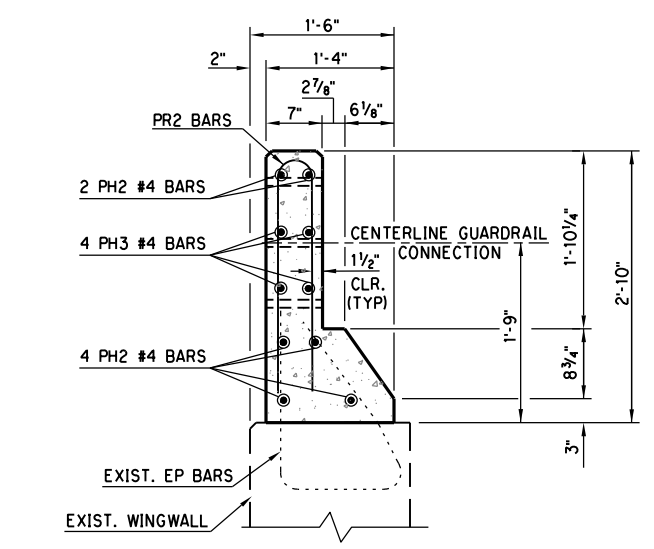
DESCRIPTION	REVISIONS	DATE



MODIFIED ELEVATION OF GUARDRAIL CONNECTION HOLES AND BLOCKOUT



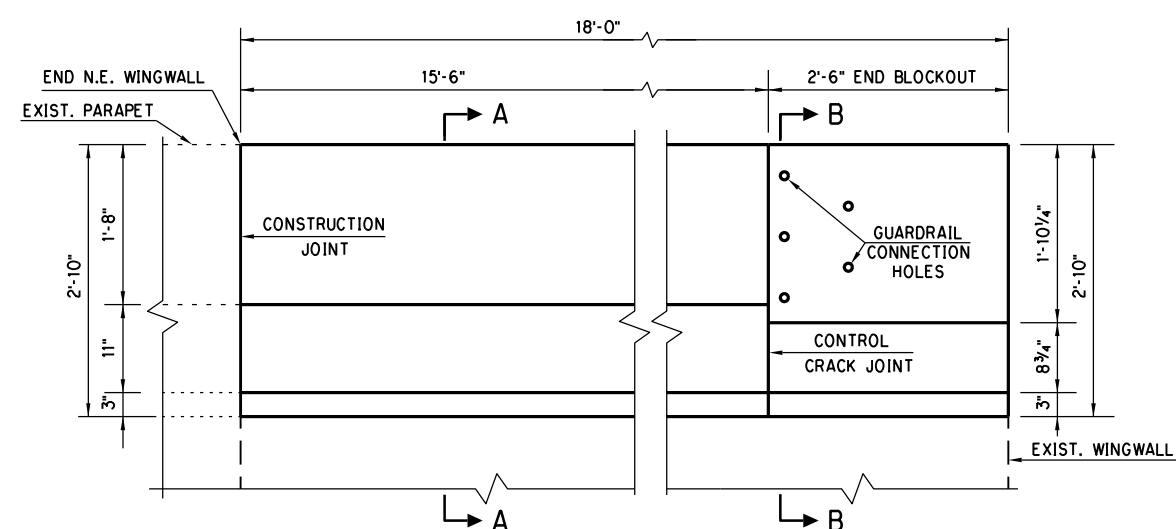
SECTION A-A



SECTION B-B MODIFIED SECTION THRU BLOCKOUT AT END OF APPROACH SLAB PARAPET

CONCRETE PARAPET NOTES

- CONSTRUCT THE SLOPED FACE CONCRETE PARAPET TO MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (ENGLISH), AS WELL AS THE FOLLOWING REQUIREMENTS:
- CLASS AA CONCRETE:**
CLASS AA CONCRETE SHALL BE USED IN THE PARAPET. ALL COST OF CONCRETE TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF "CONCRETE PARAPET".
- REINFORCING STEEL:**
EXISTING EP BARS SHALL BE EXPOSED AND CLEANED.
ALL REINFORCING STEEL USED IN THE PARAPET SHALL BE EPOXY COATED. TIE ALL EP BARS BEFORE CONCRETE IS PLACED IN THE PARAPET. ALL REINFORCING STEEL IN THE PARAPET SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAR FOOT OF "CONCRETE PARAPET".
- CONSTRUCTION JOINTS:**
PLACE A CONSTRUCTION JOINT AT THE ABUTMENT. PLACE 1/4" THICK PREFORMED EXPANSION MATERIAL IN THE CONSTRUCTION JOINT IN ACCORDANCE WITH THE DETAILS SHOWN.
- CONTROL CRACK JOINTS:**
PROVIDE DOUBLE 3/4" CHAMFERS OR 3/4" DEEP SAWCUT IN ACCORDANCE WITH THE DETAILS SHOWN. PLACE CONTROL CRACK JOINT AT LOCATION SHOWN OR AS DIRECTED BY THE ENGINEER.
- GUARDRAIL CONNECTIONS:**
FORM OR DRILL HOLES, AS SHOWN, FOR THE CONNECTION OF THE THRIE-BEAM GUARDRAIL TERMINAL CONNECTION (END SHOE AT LOCATION SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. IT IS THE RESPONSIBILITY OF THE BRIDGE CONTRACTOR TO PROVIDE THE HOLES. THE CONTRACTOR THAT INSTALLS THE GUARDRAIL WILL BE RESPONSIBLE FOR INSTALLING THE THRIE-BEAM GUARDRAIL TERMINAL CONNECTION.



ELEVATION SLOPED FACE PARAPET
(FOR GUARDRAIL CONNECTION HOLE DETAILS SEE MODIFIED ELEVATION THIS SHEET)

BAR LIST (EPOXY COATED)					
FOR INFORMATION ONLY					
MARK	NO.	SIZE	FORM	SPACING	LENGTH
PH2	6	#5	STR.	AS SHOWN	17'-8"
PH3	4	#4	STR.	AS SHOWN	4'-6"
PR1	32	#5	BNT.	6" C/C	5'-6"
PR2	5	#5	BNT.	EQ. SPA.	5'-6"
T	2	#4	BNT.	AS SHOWN	7'-8"

QUANTITIES		
ITEM	UNIT	TOTAL
CONCRETE PARAPET	L.F.	18

NOTE: SEE STD. SFPI-2-00E FOR ADDITIONAL DETAILS.

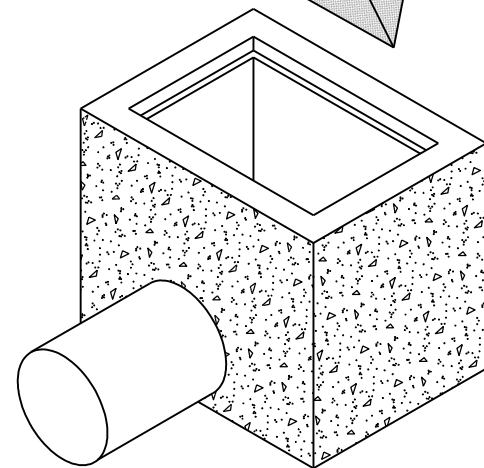
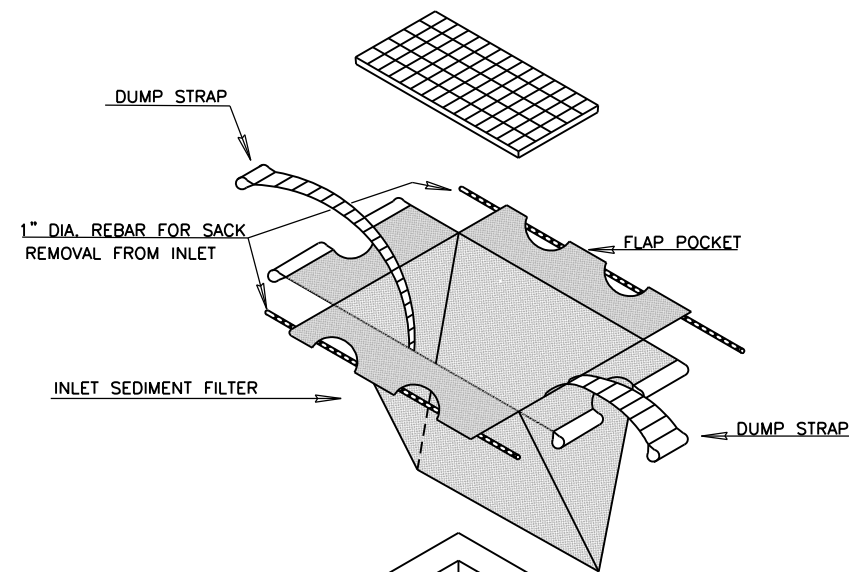
Design			
Drawn			
Checked			
Approved			
Squad	POE		

OKLAHOMA COUNTY
S.B. I-35 LINE 4

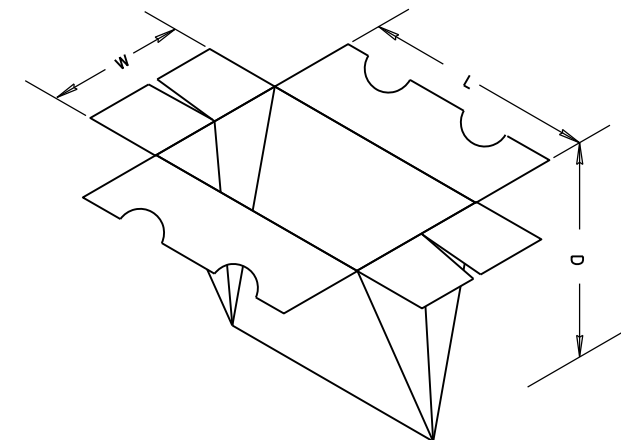
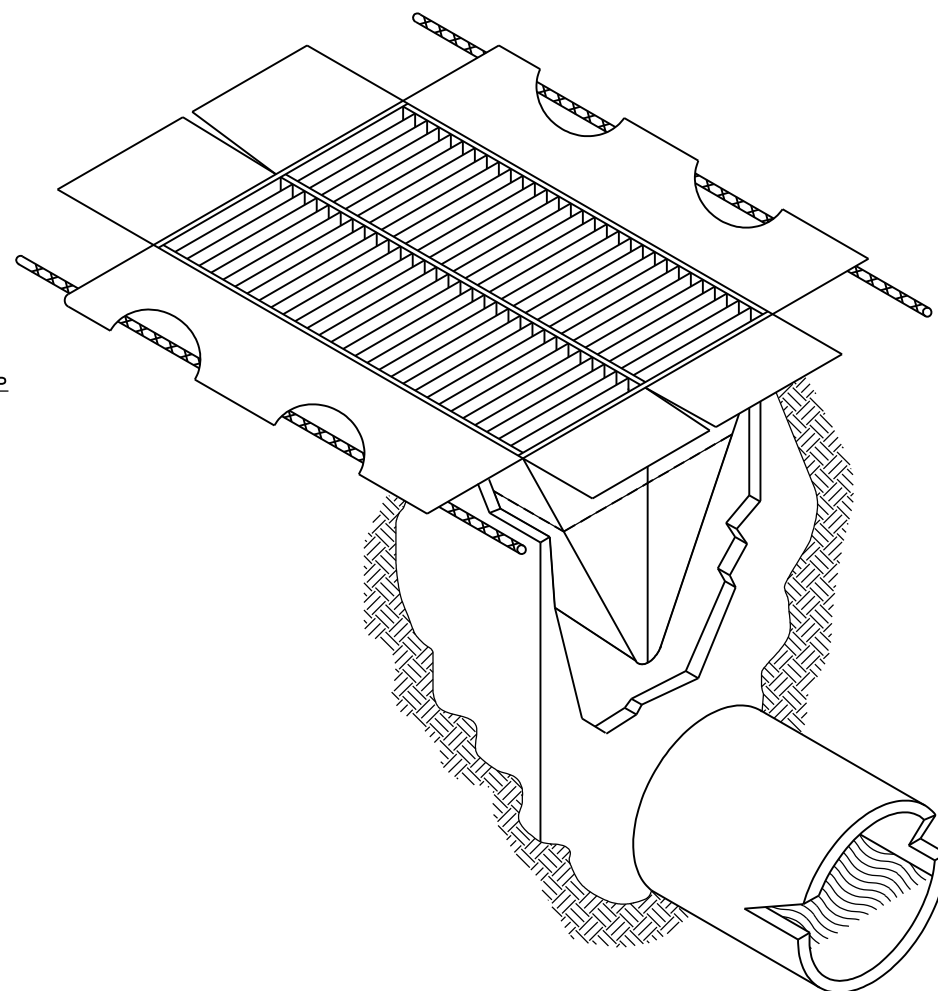
SLOPED FACE PARAPET DETAILS

State Job No. 30444(06) Sheet No. 24

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INSTALLATION DETAIL



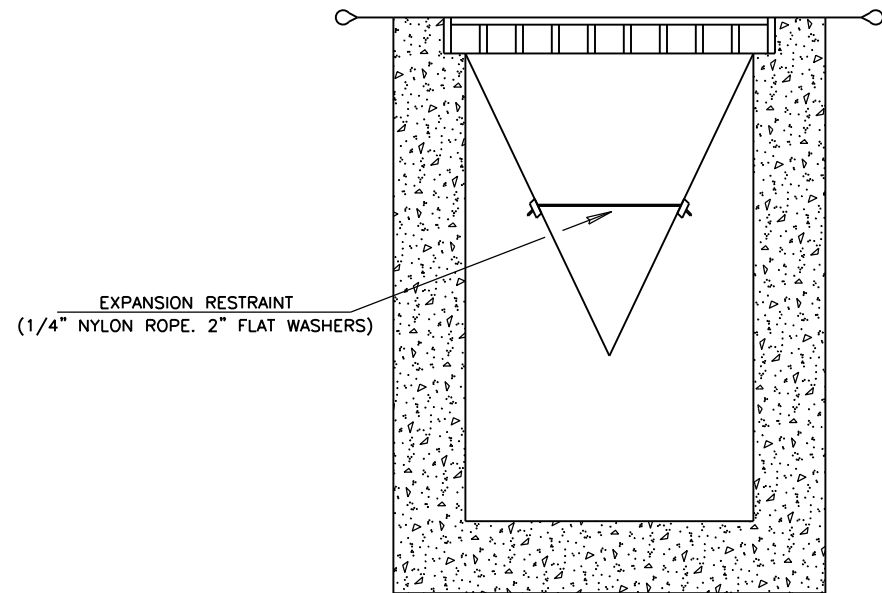
GENERAL NOTES

AN INLET SEDIMENT FILTER IS A WOVEN, POLYPROPYLENE SACK PLACED INTO UNDERGROUND DRAINS DESIGNED TO TRAP SEDIMENT BEFORE IT ENTERS THE DRAINAGE SYSTEM. THE FILTER HAS FLAP POCKETS ALONG THE TOP EDGES AND DUMP STRAPS ATTACHED TO THE BOTTOM THAT REMAIN ABOVE THE GROUND AND ARE HELD IN PLACE BY THE GRATE. THE FILTER MUST NEVER BE ALLOWED TO BE OVER HALF FULL OF SEDIMENT OR THE DRAINAGE SYSTEM COULD BE POLLUTED, NOT FUNCTION AT ALL OR MAKE IT VERY DIFFICULT TO REMOVE. CONSEQUENTLY, REGULAR MAINTENANCE IS MANDATORY.

WHEN IT IS DETERMINED THAT THE FILTER NEEDS TO BE CLEANED, TWO PIECES OF 1" REBAR ARE INSERTED THROUGH THE FLAP POCKETS. THE GRATE IS REMOVED AND THE LIFTING BARS ARE ATTACHED TO AVAILABLE EQUIPMENT AND THE SEDIMENT FILTER IS REMOVED TO A DUMPING AREA. ONCE THE INLET SEDIMENT FILTER IS ON THE GROUND, REMOVE THE LIFTING BARS FROM THE FLAP POCKETS AND INSERT THE LIFTING BARS THROUGH THE DUMP STRAPS. LIFT THE FILTER OFF THE GROUND BY THE DUMP STRAPS AND THE FILTER WILL TURN INSIDE OUT AND BE EMPTIED. IT MAY THEN BE RINSED AND REUSED OR DISPOSED OF AND REPLACED WITH A NEW INLET SEDIMENT FILTER.

THE GEOTEXTILE FABRIC SHALL BE WOVEN WITH THE FOLLOWING PROPERTIES:

PROPERTY	TEST METHOD	TEST RESULT
GRAB TENSILE	ASTM D-4632	300 lb (Min.)
GRAB ELONGATION	ASTM D-4632	20% (Max.)
PUNCTURE	ASTM D-4833	120 lb (Min.)
MULLEN BURST	ASTM D-3786	800 psi (Min.)
TRAPEZOID TEAR	ASTM D-4533	120 lb (Min.)
UV RESISTANCE	ASTM D-4355	70% @ 150hrs. (Min.)
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE (Max.)
FLOW RATE	ASTM D-4491	40 Gal./min./sq.ft. (Max.)
PERMITTIVITY	ASTM D-4491	0.55 sec. ⁻¹ (Max.)



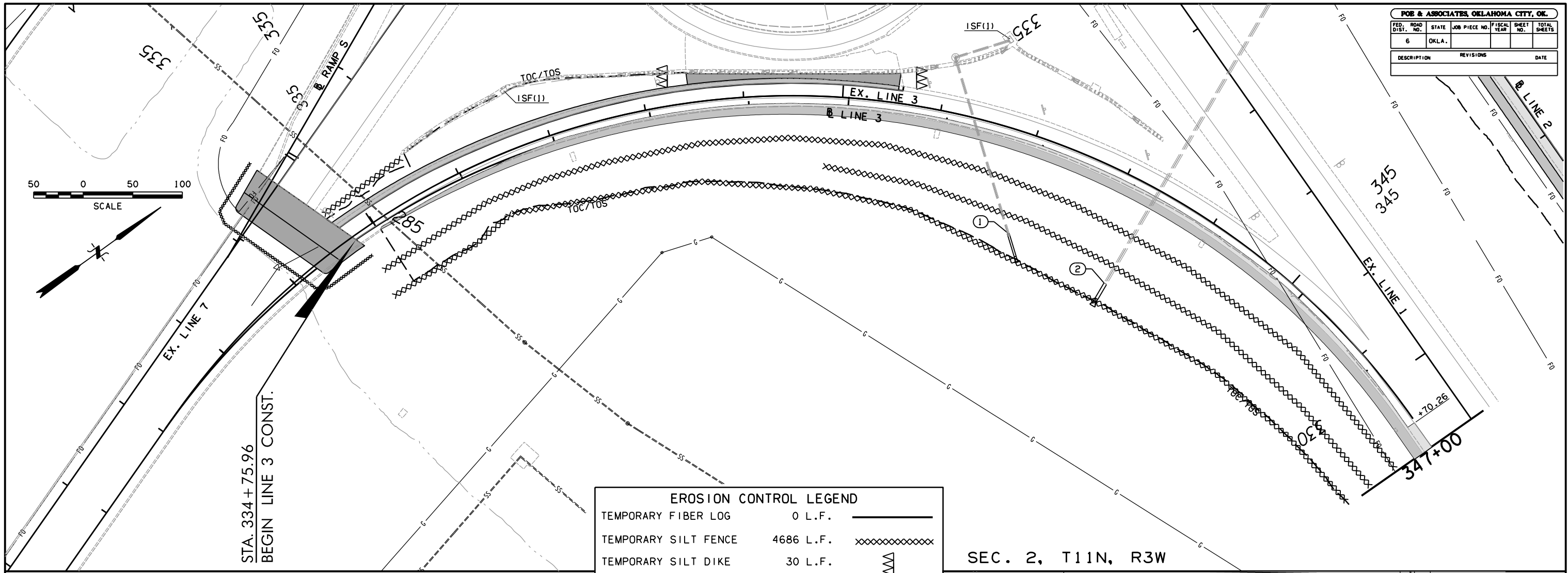
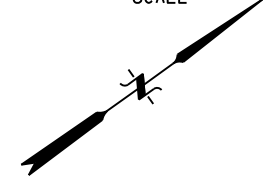
SIDE VIEW

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
221(H)	(PL) TEMPORARY INLET SEDIMENT FILTER	EACH

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

TEMPORARY INLET SEDIMENT FILTER

POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		

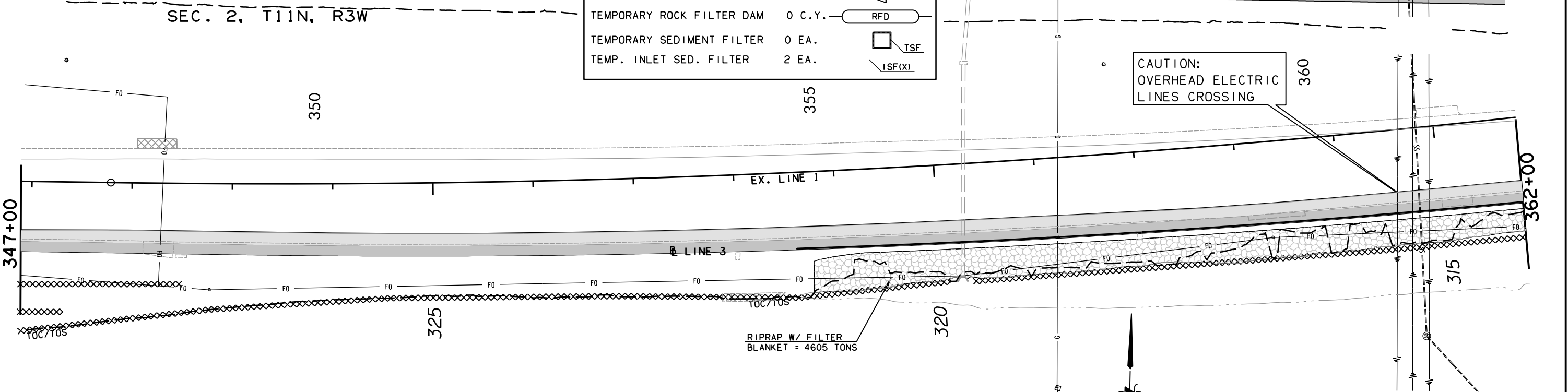


STA. 334 + 75.96
BEGIN LINE 3 CONST.

EROSION CONTROL LEGEND		
TEMPORARY FIBER LOG	0 L.F.	
TEMPORARY SILT FENCE	4686 L.F.	
TEMPORARY SILT DIKE	30 L.F.	
TEMPORARY ROCK FILTER DAM	0 C.Y.	
TEMPORARY SEDIMENT FILTER	0 EA.	
TEMP. INLET SED. FILTER	2 EA.	

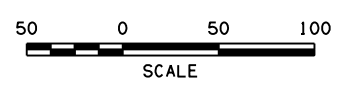
SEC. 2, T11N, R3W

SEC. 2, T11N, R3W



CAUTION:
OVERHEAD ELECTRIC
LINES CROSSING

RIPRAP W/ FILTER
BLANKET = 4605 TONS



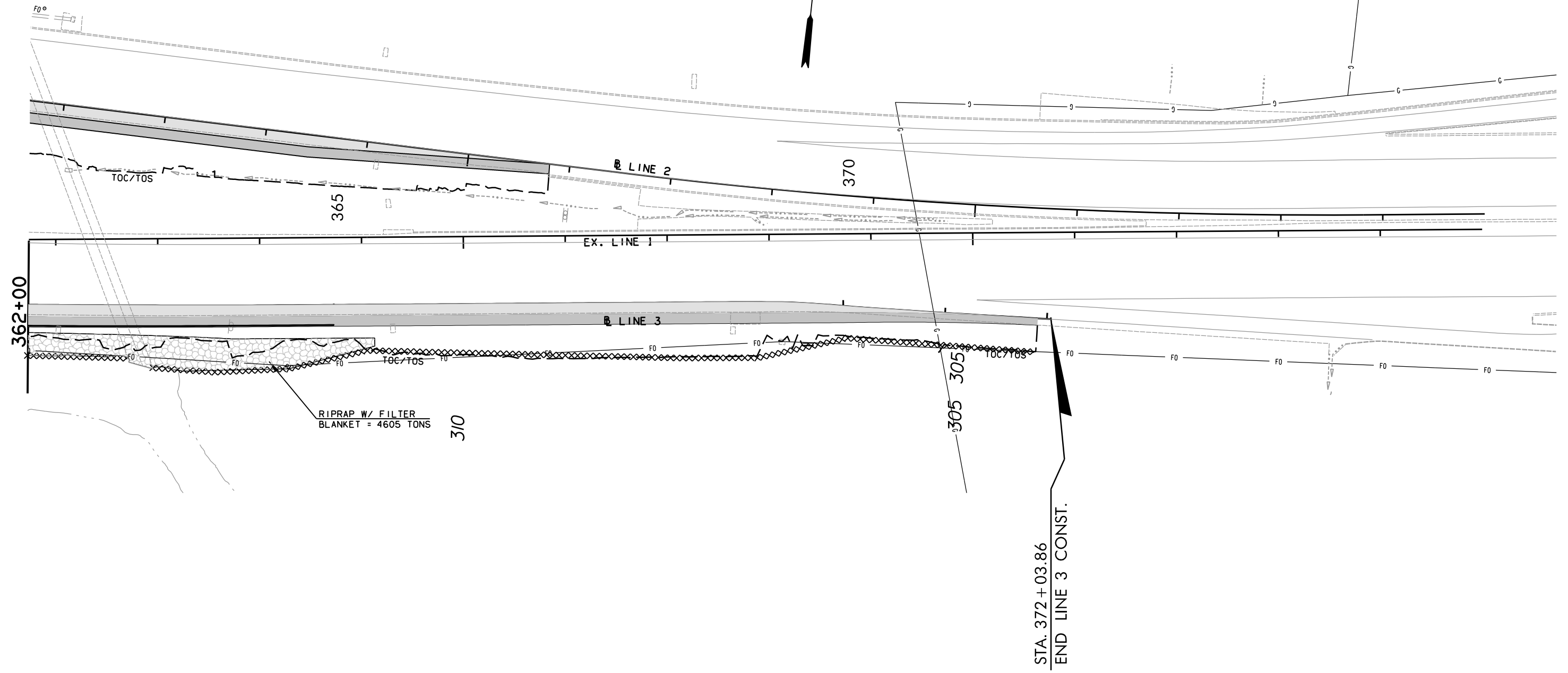
DESIGN	-	-
DRAWN	JAG	6/17
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

LINE 3
EROSION CONTROL SHEET
1 OF 2
STATE JOB NO. 30444(06) SHEET NO. 26
OKLAHOMA COUNTY

9/1/2017 6:42:20 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\203078_Line 3_EroCtrlr1.dgn



POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		

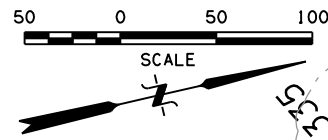


EROSION CONTROL LEGEND		
TEMPORARY FIBER LOG	0 L.F.	—————
TEMPORARY SILT FENCE	968 L.F.	XXXXXXXXXX
TEMPORARY SILT DIKE	0 L.F.	▲▲▲▲▲
TEMPORARY ROCK FILTER DAM	0 C.Y.	RFD
TEMPORARY SEDIMENT FILTER	0 EA.	□ TSF
TEMP. INLET SED. FILTER	0 EA.	∟ SF(X)

DESIGN	-	-
DRAWN	JAG	6/17
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

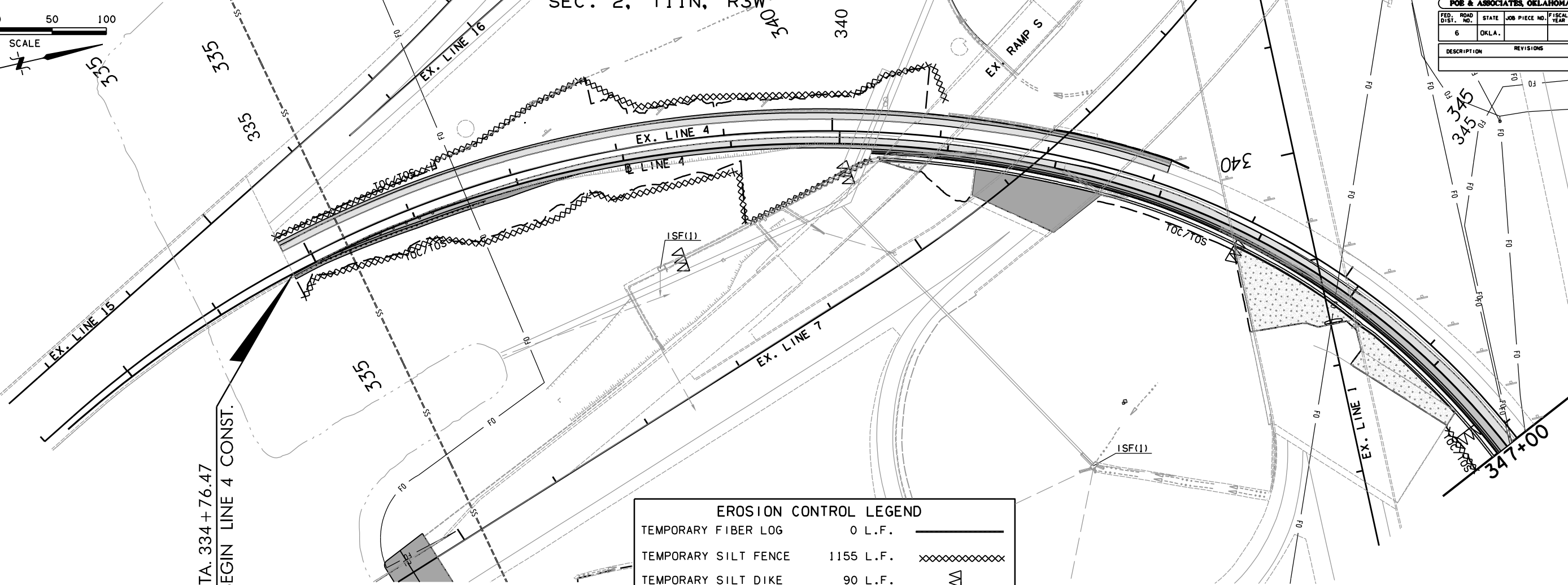
LINE 3
EROSION CONTROL SHEET
SHEET 2 OF 2

STATE JOB NO. 304444(06) SHEET NO. 27
OKLAHOMA COUNTY



SEC. 2, T11N, R3W

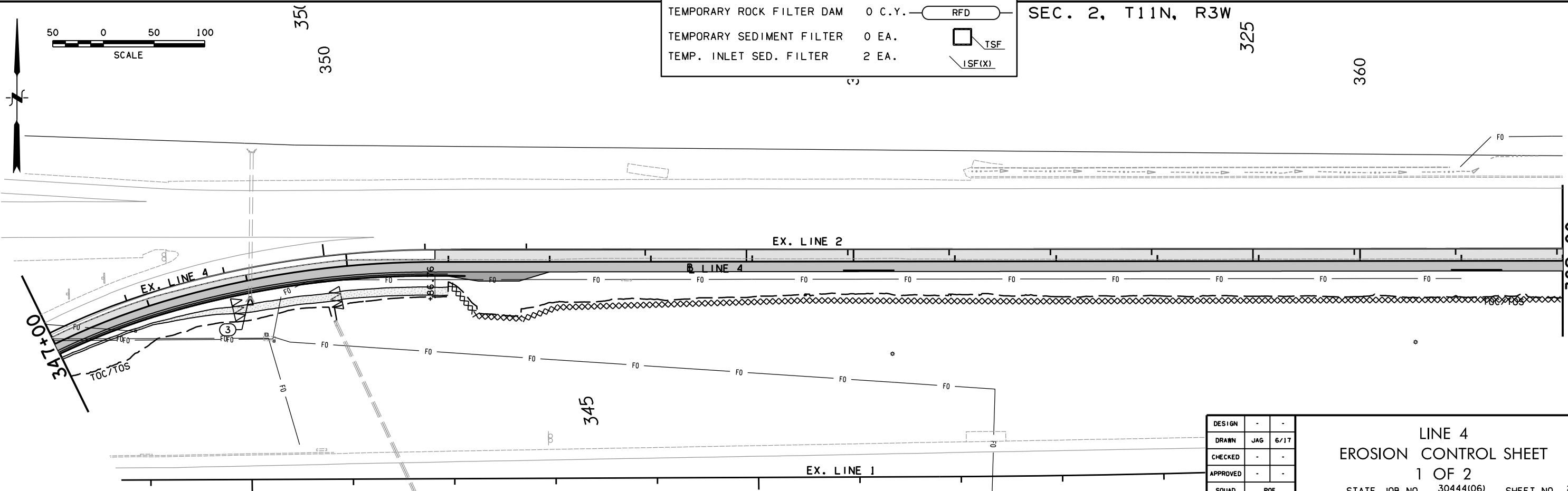
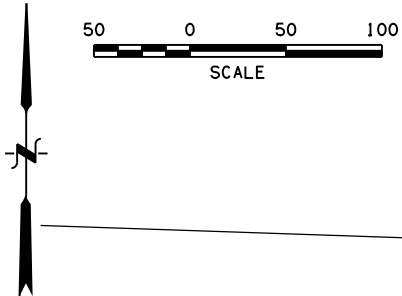
POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		



STA. 334+76.47
BEGIN LINE 4 CONST.

TEMPORARY FIBER LOG	0 L.F.	
TEMPORARY SILT FENCE	1155 L.F.	
TEMPORARY SILT DIKE	90 L.F.	
TEMPORARY ROCK FILTER DAM	0 C.Y.	
TEMPORARY SEDIMENT FILTER	0 EA.	
TEMP. INLET SED. FILTER	2 EA.	

SEC. 2, T11N, R3W



9/1/2017 6:42:25 AM H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\203078_Line 4_EroCntrl_L1.dgn

DESIGN	-	-
DRAWN	JAG	6/17
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

LINE 4
EROSION CONTROL SHEET
1 OF 2
STATE JOB NO. 30444(06) SHEET NO. 28
OKLAHOMA COUNTY

FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				

DESCRIPTION	REVISIONS	DATE
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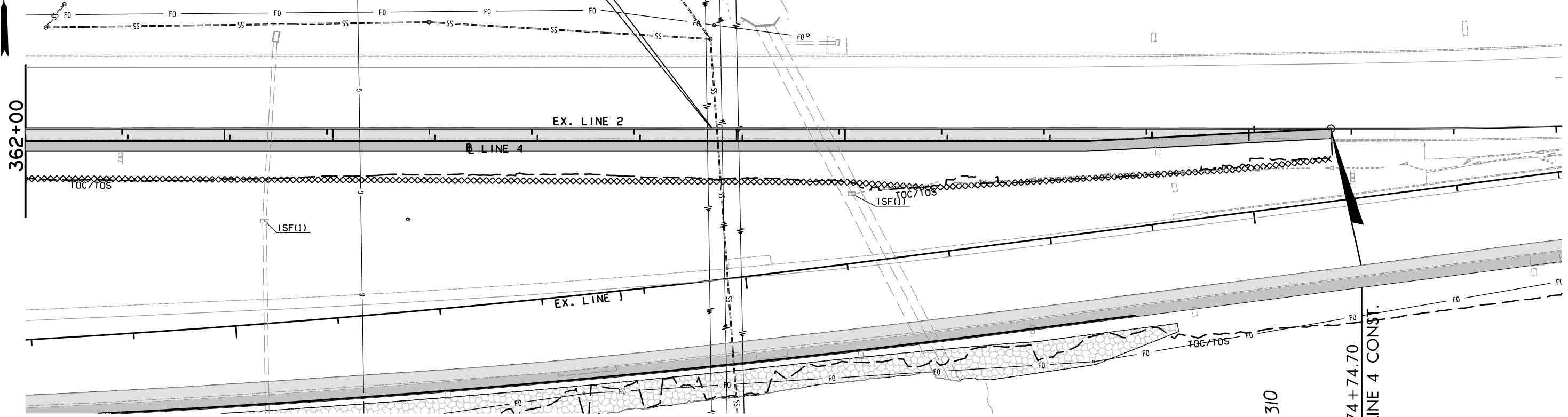
320

365

315

370

CAUTION:
OVERHEAD ELECTRIC
LINES CROSSING



STA. 374 + 74.70
END LINE 4 CONST.

310

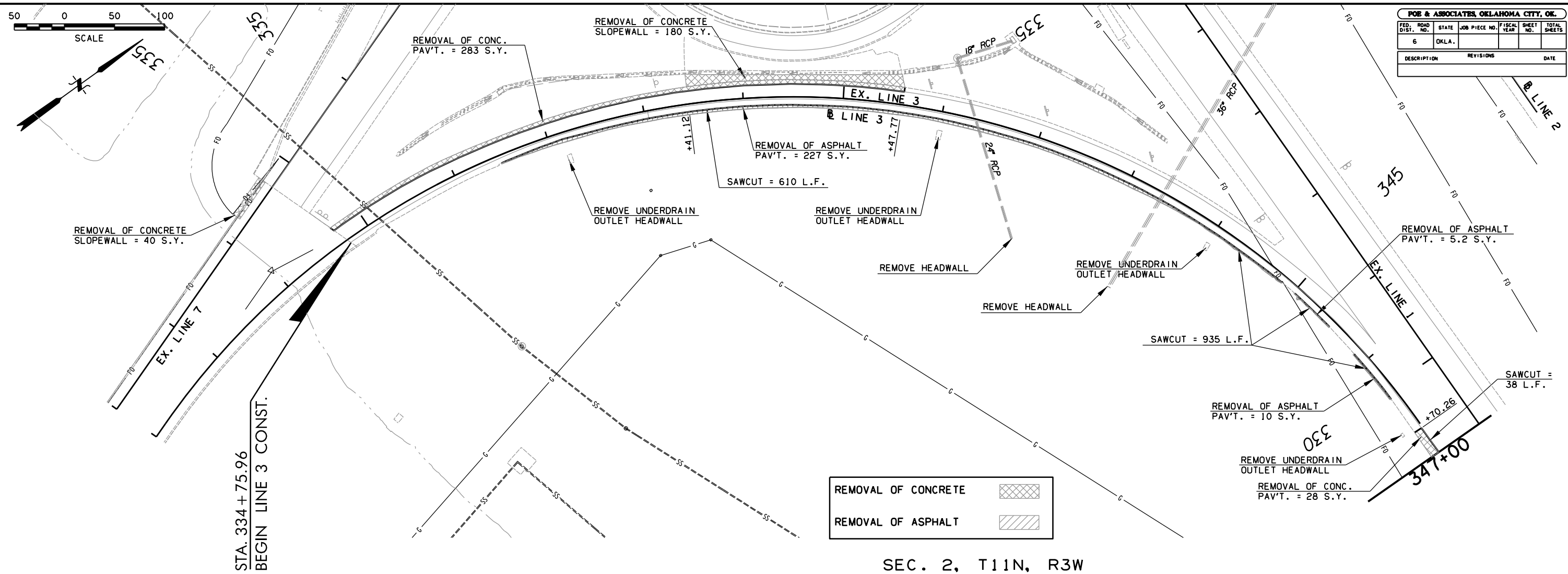
EROSION CONTROL LEGEND		
TEMPORARY FIBER LOG	0 L.F.	
TEMPORARY SILT FENCE	1273 L.F.	
TEMPORARY SILT DIKE	0 L.F.	
TEMPORARY ROCK FILTER DAM	0 C.Y.	
TEMPORARY SEDIMENT FILTER	0 EA.	
TEMP. INLET SED. FILTER	2 EA.	

DESIGN	-	-
DRAWN	JAG	6/17
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

LINE 4
EROSION CONTROL SHEET
2 OF 2
STATE JOB NO. 30444(06) SHEET NO. 29
OKLAHOMA COUNTY

9/1/2017 6:42:34 AM H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\203078_Line 4_EroCtrl\1.2.dgn

POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		



REMOVAL OF CONCRETE

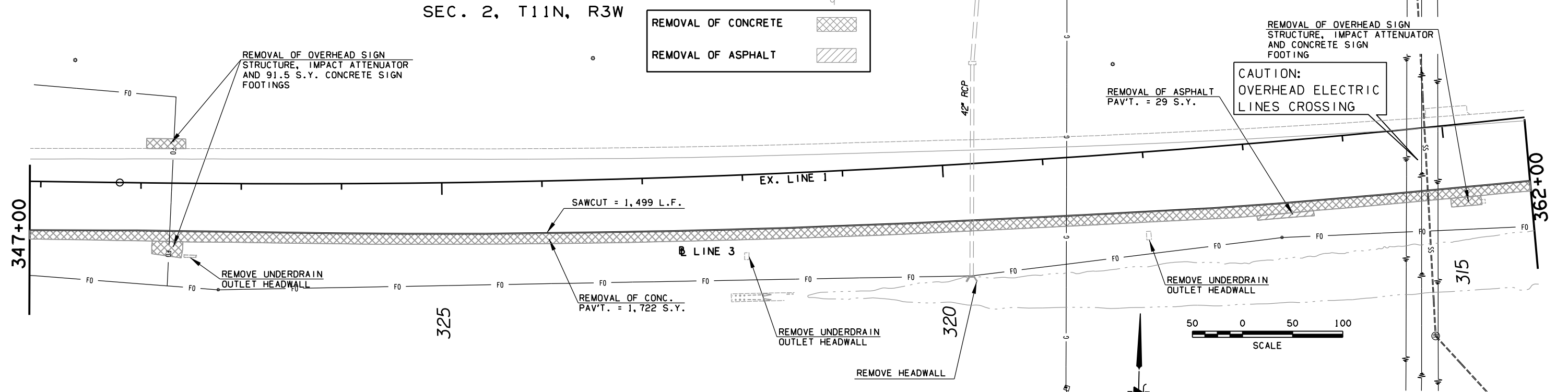
REMOVAL OF ASPHALT

SEC. 2, T11N, R3W

SEC. 2, T11N, R3W

REMOVAL OF CONCRETE

REMOVAL OF ASPHALT



DESIGN	-	-
DRAWN	JAG	6/17
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

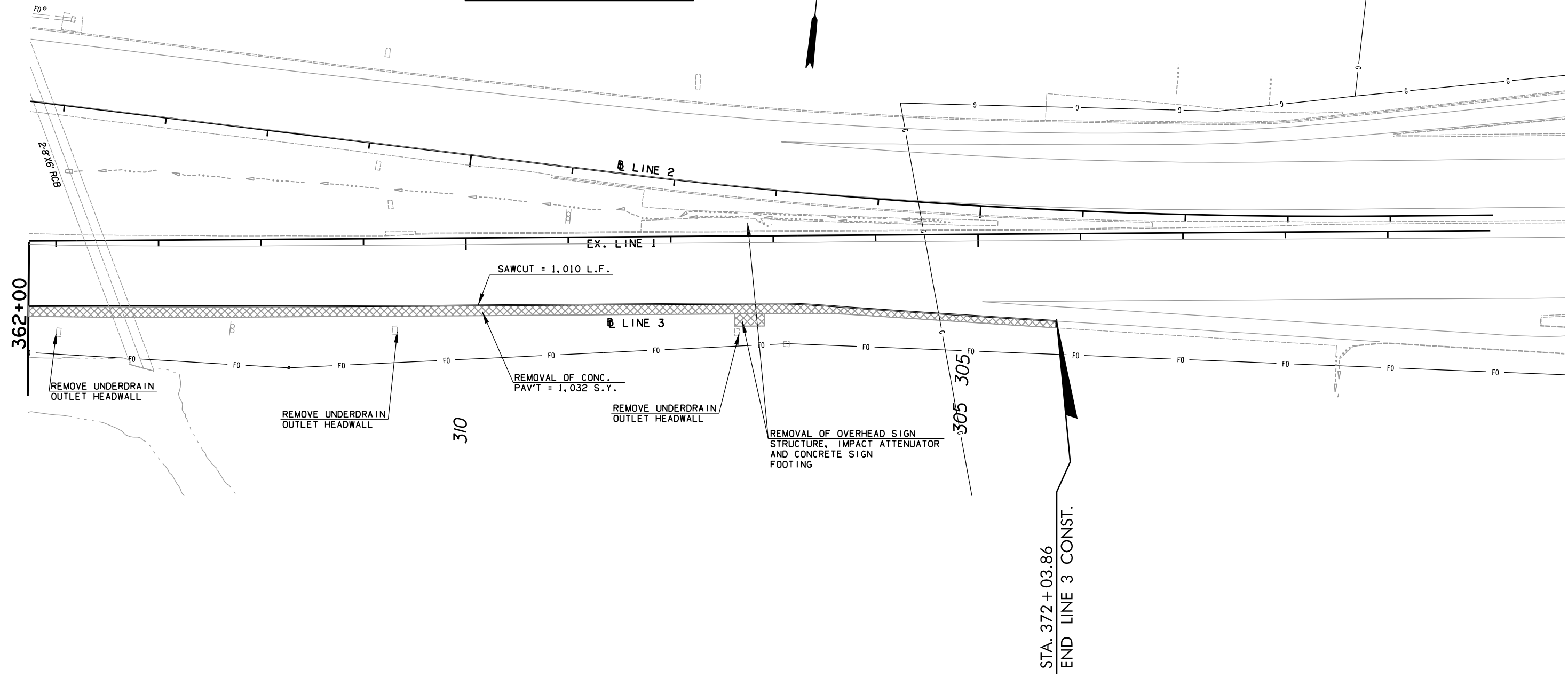
LINE 3
REMOVAL SHEET
1 OF 2
STATE JOB NO. 30444(06) SHEET NO. 30
OKLAHOMA COUNTY

9/1/2017 6:42:35 AM H:\PROJECTS\203078_0001_EC-161\Roadway\Drawings\203078_Line 3_Removal.dgn

POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION	REVISIONS	DATE				



REMOVAL OF CONCRETE	
REMOVAL OF ASPHALT	



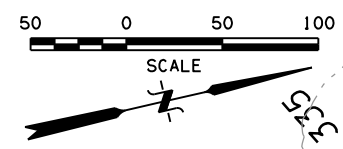
STA. 372 + 03.86
END LINE 3 CONST.

9/1/2017 6:42:36 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\203078_Line 3-Removal.dgn

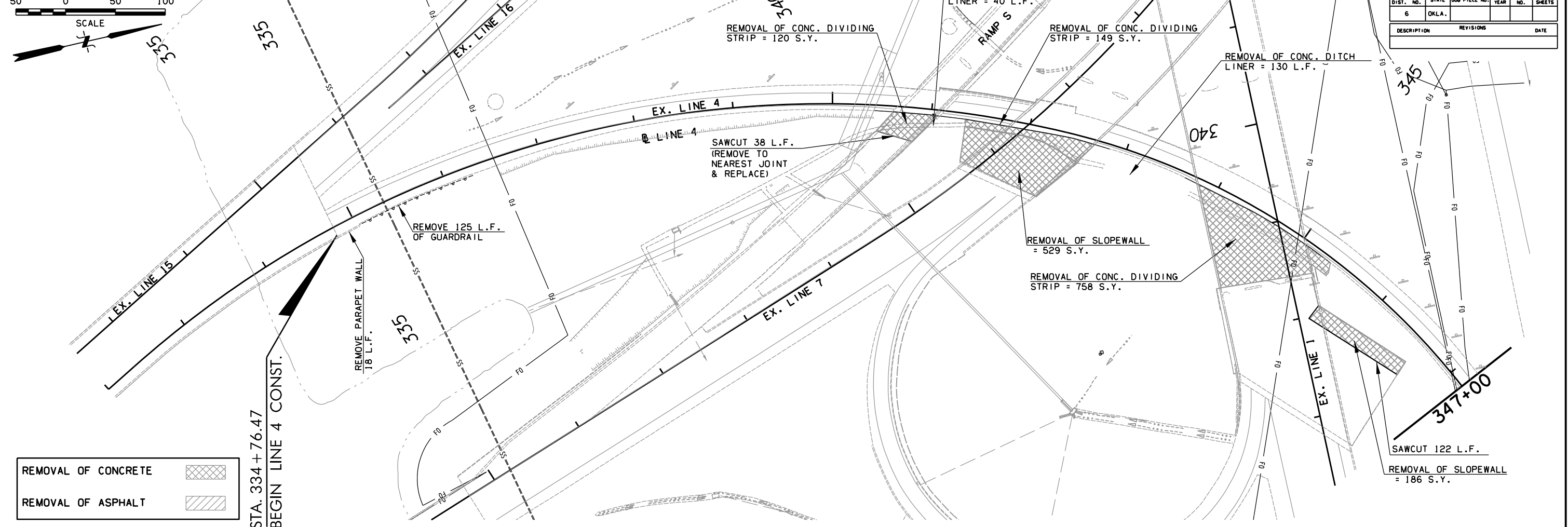
DESIGN	-	-
DRAWN	JAG	6/17
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

LINE 3
REMOVAL SHEET
SHEET 2 OF 2

SEC. 2, T11N, R3W



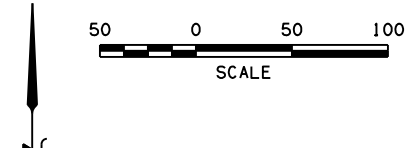
POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		



REMOVAL OF CONCRETE

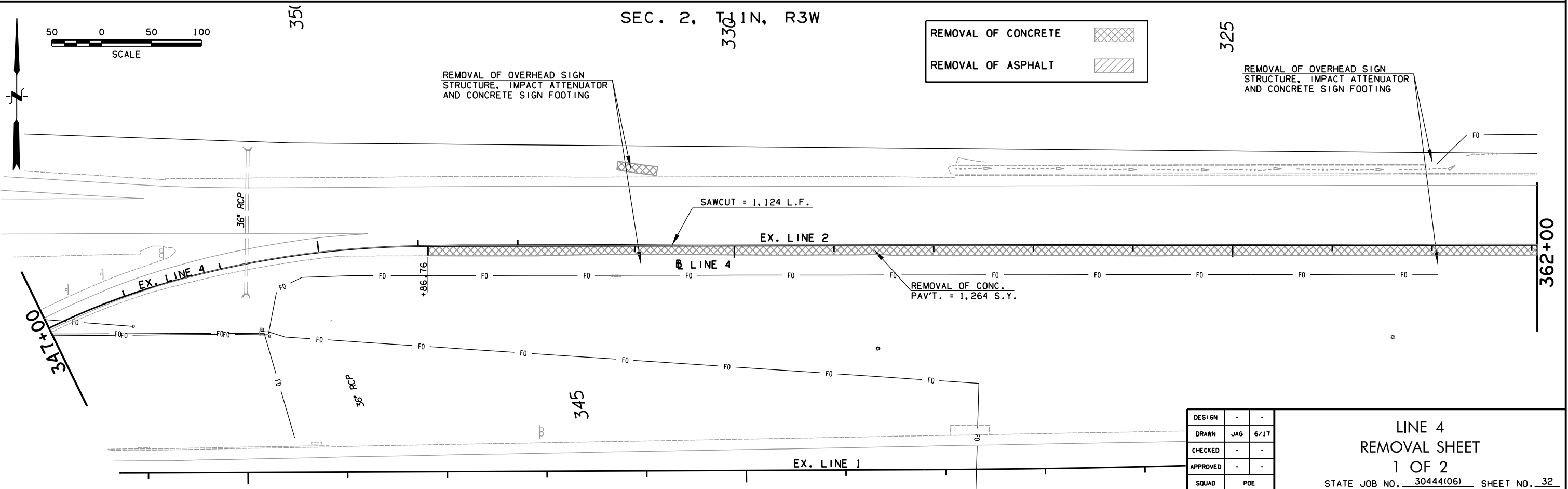
REMOVAL OF ASPHALT

SEC. 2, T11N, R3W



REMOVAL OF CONCRETE

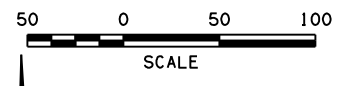
REMOVAL OF ASPHALT



DESIGN	-	-
DRAWN	JAG	6/17
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

LINE 4
REMOVAL SHEET
1 OF 2
STATE JOB NO. 30444(06) SHEET NO. 32
OKLAHOMA COUNTY

9/1/2017 6:42:37 AM
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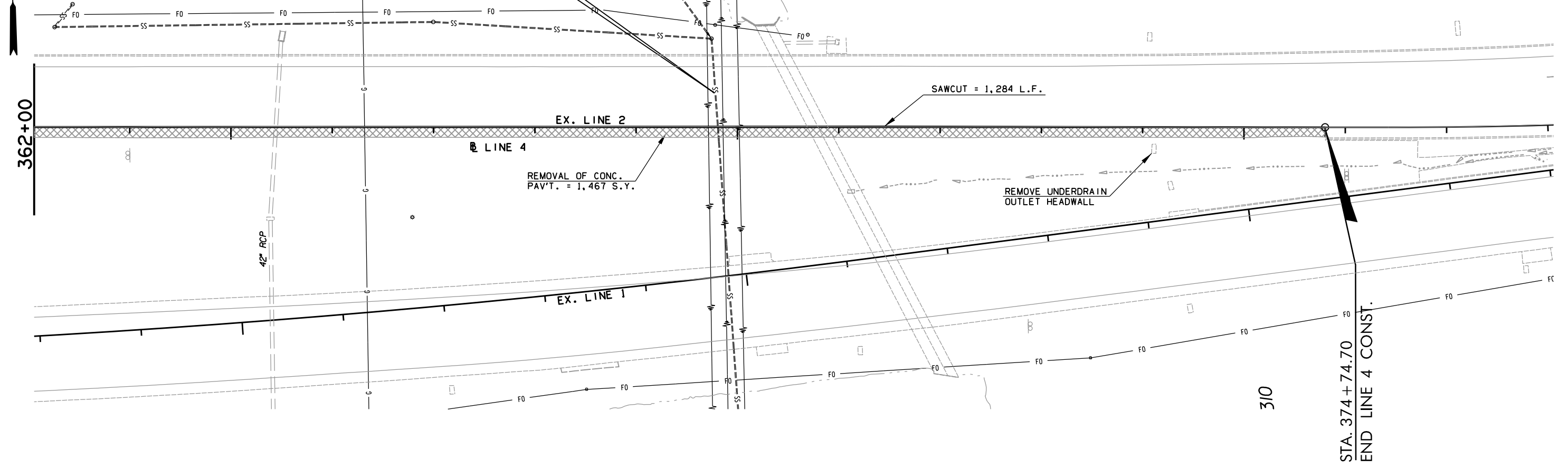


SEC. 2, T11N, R3W

REMOVAL OF CONCRETE	
REMOVAL OF ASPHALT	

POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS		DATE	

CAUTION:
OVERHEAD ELECTRIC
LINES CROSSING



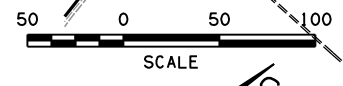
STA. 374 + 74.70
END LINE 4 CONST.

9/1/2017 6:42:37 AM H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\203078_Line 4_Removal_2.dgn

DESIGN	-	-
DRAWN	JAG	6/17
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

LINE 4
REMOVAL SHEET
2 OF 2
STATE JOB NO. 30444(06) SHEET NO. 33
OKLAHOMA COUNTY

POB & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		



Curve No. 1 ~ Ex. Line 3
 P.I. Sta. 334+01.44
 N: 167772.7331
 E: 2119915.4092
 $\Delta = 27^{\circ}17'11.02''$ RT.
 D: 7'29'59.90"
 T: 185.43'
 L: 363.82'
 R: 763.95'
 E: 22J8'

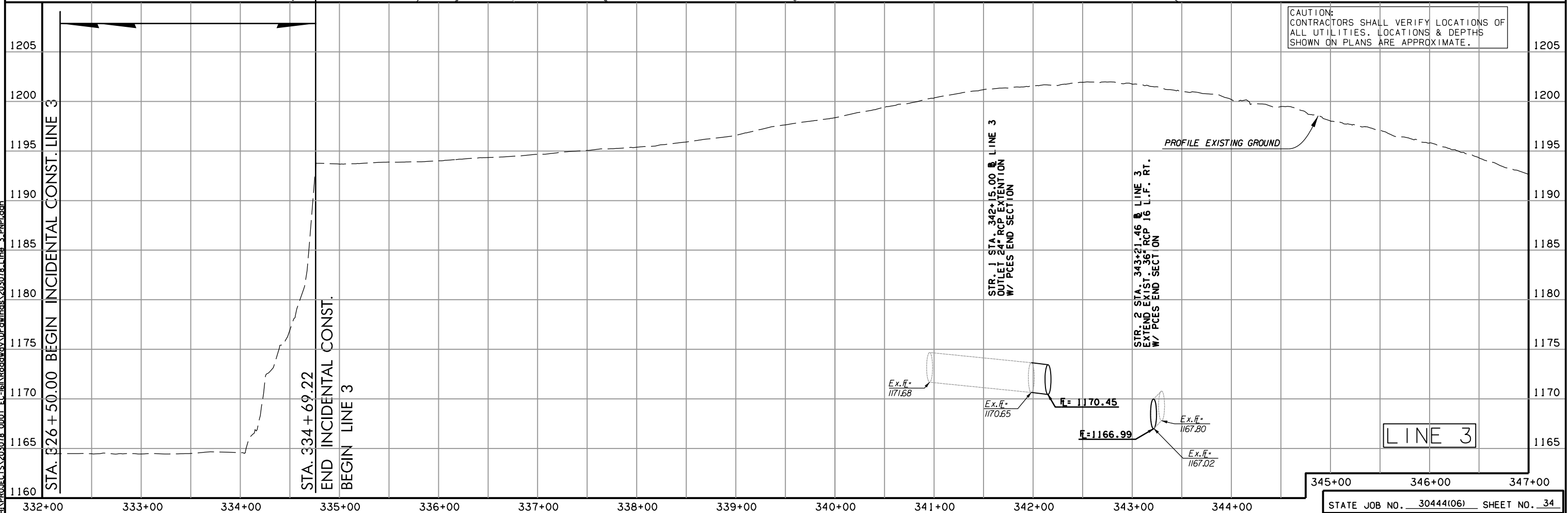
CURVE NO. 1 ~ @ LINE 3
 P.I. STA. 332+70.16
 N: 167648.8555
 E: 2119958.8734
 $\Delta = 10^{\circ}00'44.18''$ RT.
 D: 7'29'59.91"
 T: 66.92'
 L: 133.50'
 R: 763.95'
 E: 2.93'
 V: 50 M.P.H.

Curve No. 2 ~ Ex. Line 3
 P.I. Sta. 342+52.63
 N: 168622.7047
 E: 2120034.1426
 $\Delta = 82^{\circ}44'23.5''$ RT.
 D: 7'29'59.91"
 T: 672.80'
 L: 1103.20'
 R: 763.95'
 E: 254.03'

CURVE NO. 2 ~ @ LINE 3
 P.I. STA. 342+47.40
 N: 168613.5260
 E: 2119800.5244
 $\Delta = 100^{\circ}00'50.35''$ RT.
 D: 7'29'59.91"
 T: 910.66'
 L: 1333.52'
 R: 763.95'
 E: 424.72'
 V: 50 M.P.H.

SEC. 2, T11N, R3W

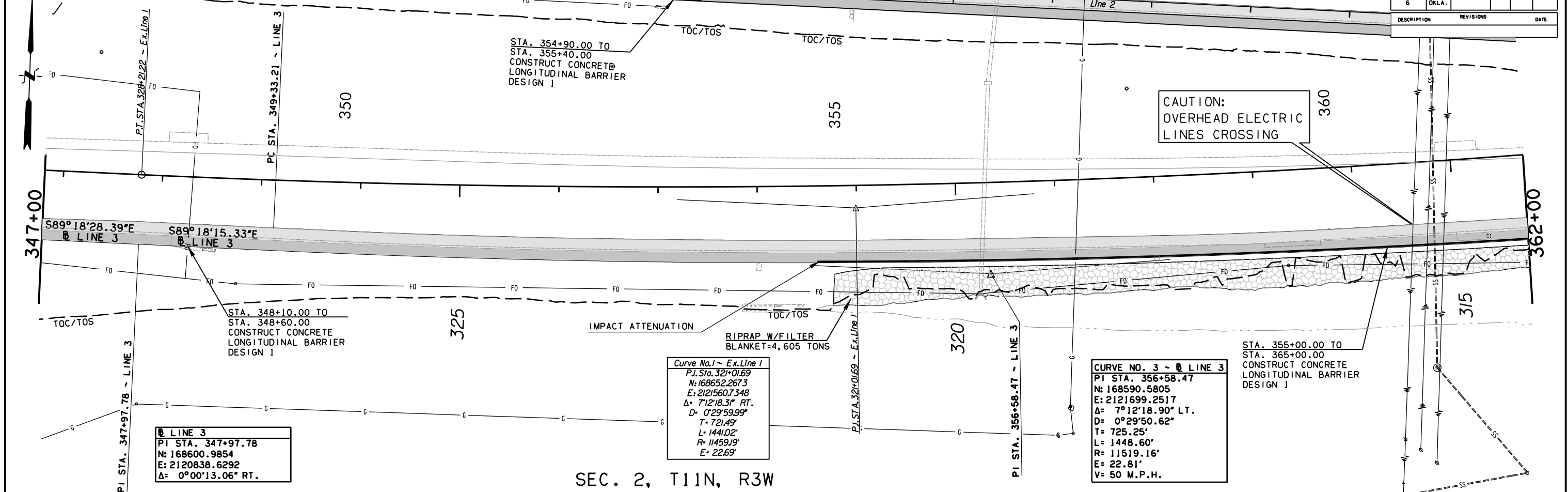
CAUTION:
 CONTRACTORS SHALL VERIFY LOCATIONS OF
 ALL UTILITIES. LOCATIONS & DEPTHS
 SHOWN ON PLANS ARE APPROXIMATE.



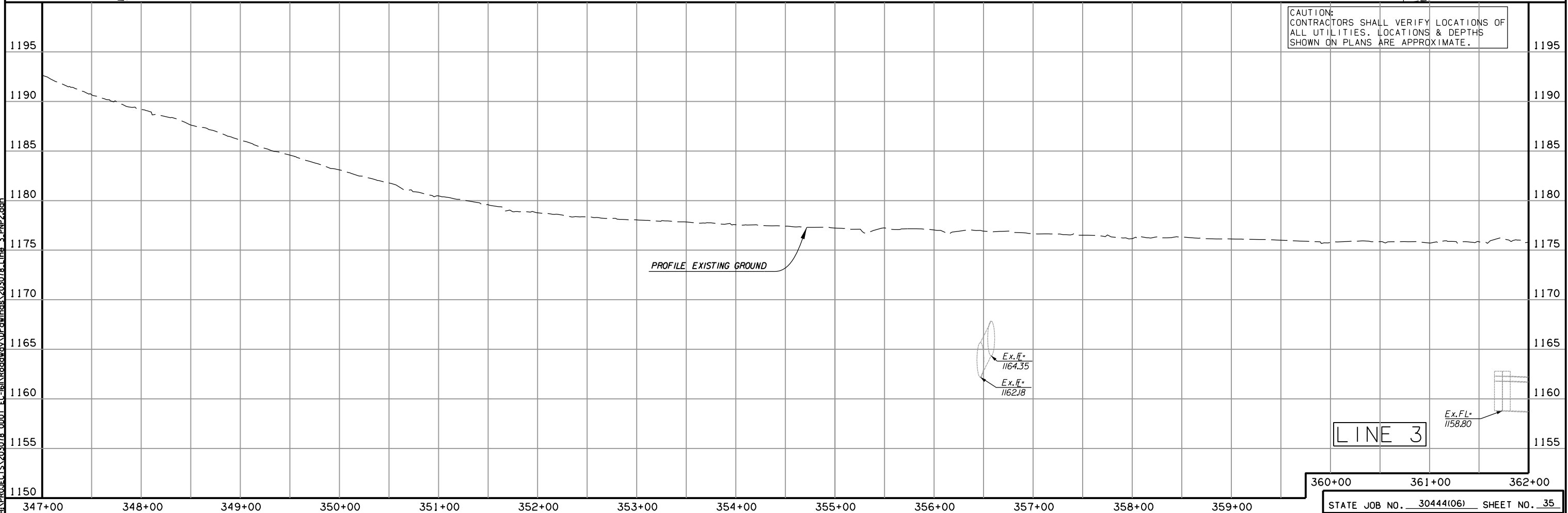
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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION		REVISIONS	DATE			



SEC. 2, T11N, R3W



9/1/2017 6:42:43 AM H:\PROJECTS\203078_0001_EC-161\Roadway\Drawings\203078_Line_3_PMP2.dwg

360+00 361+00 362+00

STATE JOB NO. 30444(06) SHEET NO. 35

OKLAHOMA COUNTY

POB & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		

Curve No. 1 ~ Ex. Line 2
 P.I. STA. 304+88.90
 N: 168850.4036
 E: 2123163.9854
 Δ : 7°23'00.05" RT.
 D: 0°59'59.99"
 T: 369.70'
 L: 738.34'
 R: 5729.60'
 E: 11.91'

CURVE NO. 4 ~ Ex. Line 3
 P. I. STA. 370+88.99
 N: 168753.0629
 E: 2123122.4381
 Δ : 4°05'12.05" RT.
 D: 2°00'00.00"
 T: 102.21'
 L: 204.33'
 R: 2864.79'
 E: 1.82'
 V: 50 M.P.H.

Ex. Line 1
 P.I. Sta. 310+94.46
 N: 168766.5157
 E: 2122561.4570
 Δ : 0°00'00.13" LT.

STA. 368+85.00 TO
 STA. 369+65.00
 CONSTRUCT CONCRETE
 LONGITUDINAL BARRIER
 DESIGN 1

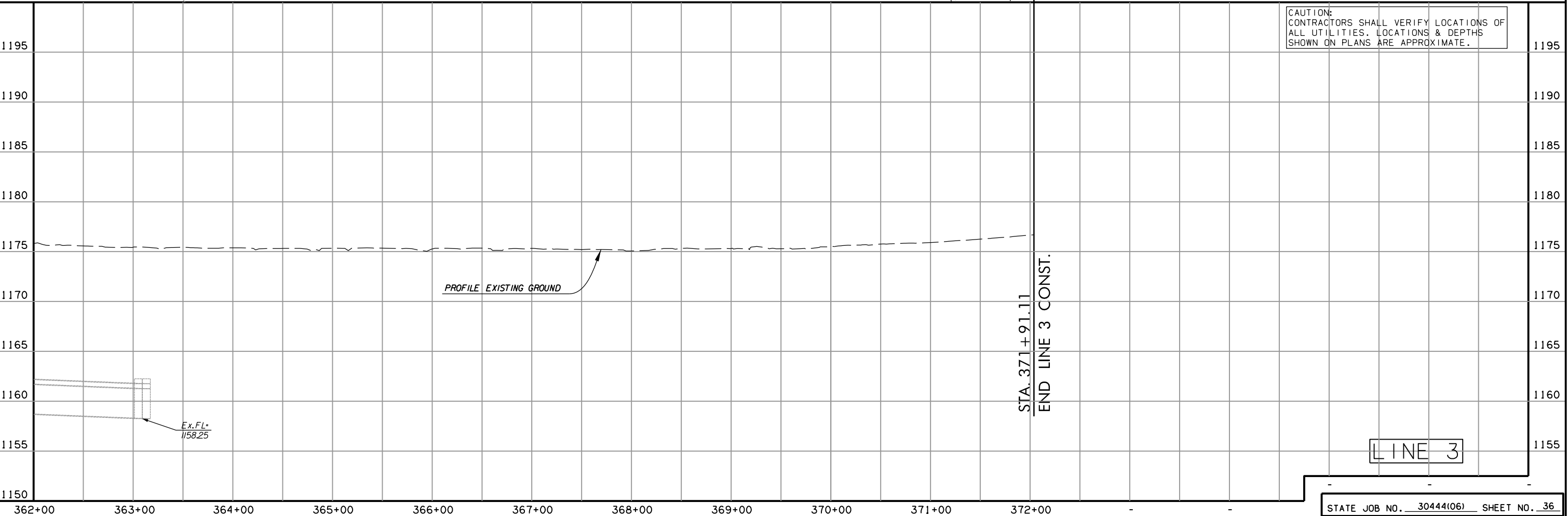
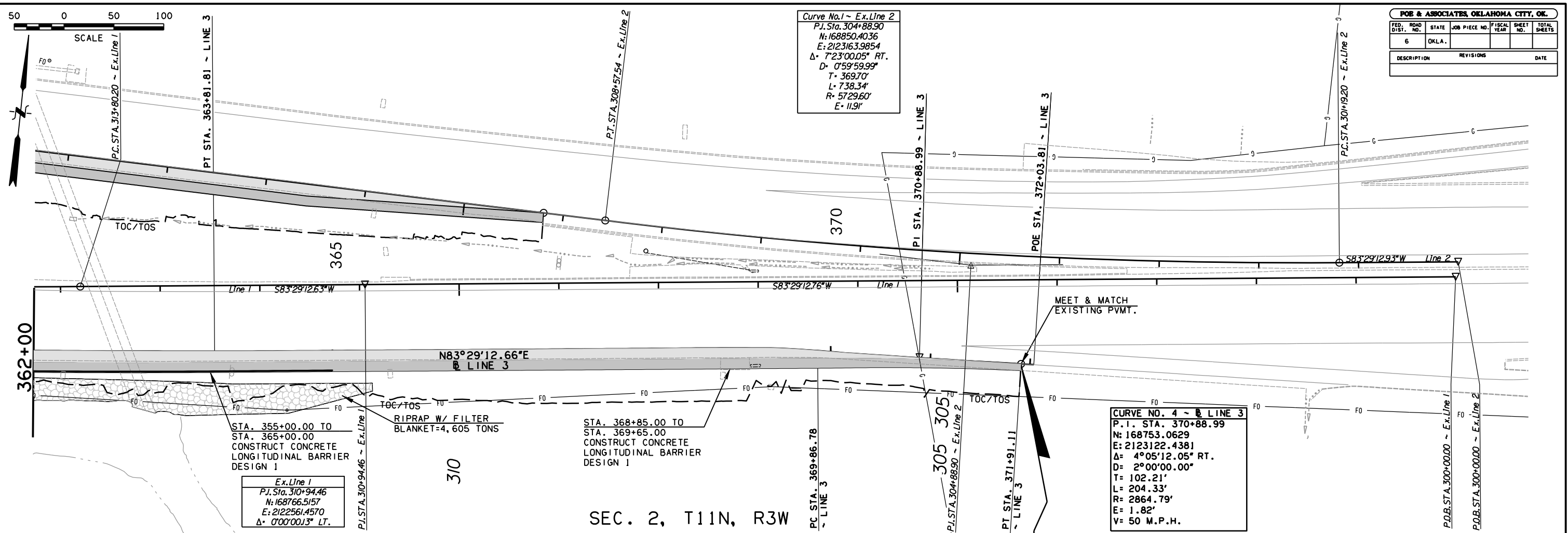
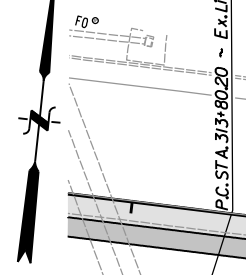
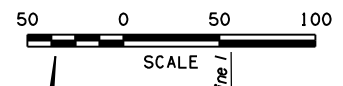
RIPRAP W/ FILTER
 BLANKET=4,605 TONS

STA. 355+00.00 TO
 STA. 365+00.00
 CONSTRUCT CONCRETE
 LONGITUDINAL BARRIER
 DESIGN 1

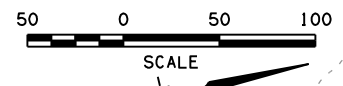
MEET & MATCH
 EXISTING PVMT.

SEC. 2, T11N, R3W

CAUTION:
 CONTRACTORS SHALL VERIFY LOCATIONS OF
 ALL UTILITIES. LOCATIONS & DEPTHS
 SHOWN ON PLANS ARE APPROXIMATE.



9/1/2017 6:42:44 AM
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CURVE NO. 1 - B LINE 4
 PI STA. 334+79.49
 N: 167740.9367
 E: 2119533.1681
 $\Delta = 27^{\circ}34'13.33''$ RT.
 $D = 5^{\circ}29'21.85''$
 T = 256.08'
 L = 502.25'
 R = 1043.75'
 E = 30.96'
 V = 50 M.P.H.

Curve No. 2 - Ex. Line 4
 P.J. Sta. 334+08.56
 N: 167675.8408
 E: 2119561.9768
 $\Delta = 18^{\circ}55'41.41''$ RT.
 $D = 5^{\circ}29'59.91''$
 T = 173.66'
 L = 344.15'
 R = 1041.75'
 E = 14.38'

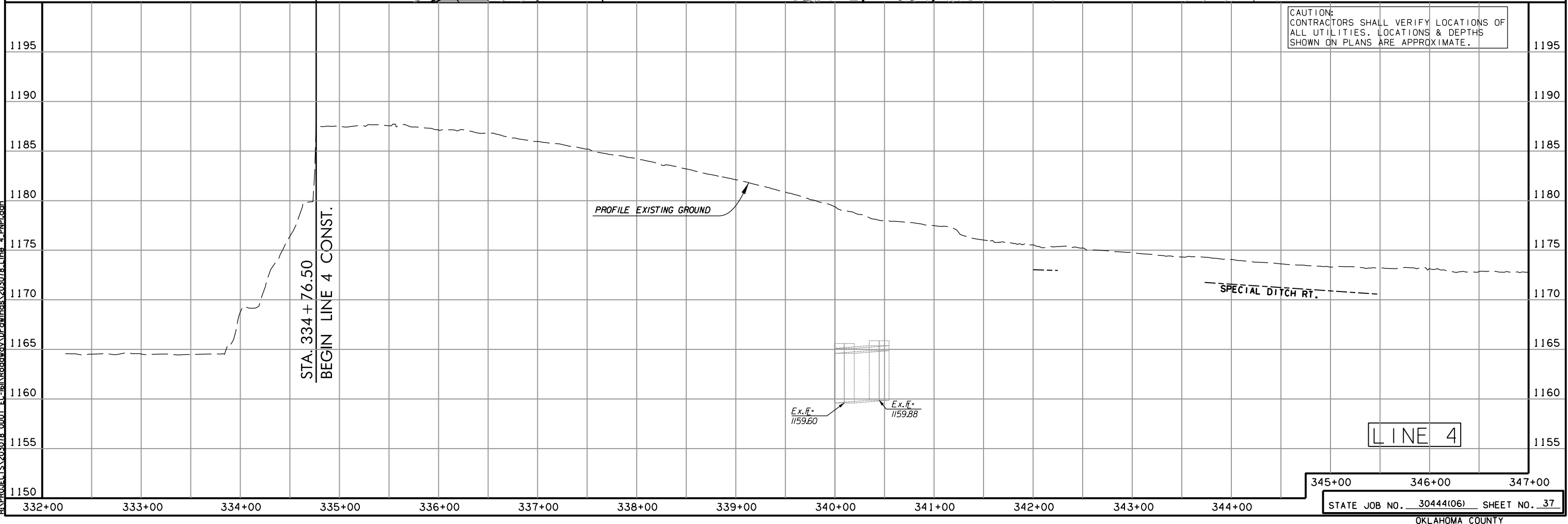
Curve No. 3 - Ex. Line 4
 P.J. Sta. 339+19.68
 N: 168182.6449
 E: 2119474.6280
 $\Delta = 36^{\circ}12'45.25''$ RT.
 $D = 5^{\circ}29'59.93''$
 T = 340.62'
 L = 658.41'
 R = 1041.75'
 E = 54.27'

CURVE NO. 2 - B LINE 4
 PI STA. 339+81.74
 N: 168253.0041
 E: 2119523.0070
 $\Delta = 27^{\circ}34'13.33''$ RT.
 $D = 5^{\circ}29'21.85''$
 T = 256.08'(1)
 T = 256.08'(2)
 L = 502.25'
 R = 1043.75'
 E = 30.96'
 V = 50 M.P.H.

Curve No. 4 - Ex. Line 4
 P.J. Sta. 345+59.62
 N: 168776.1227
 E: 2119769.6662
 $\Delta = 48^{\circ}26'10.76''$ RT.
 $D = 7^{\circ}59'59.90''$
 T = 322.15'
 L = 605.46'
 R = 716.20'
 E = 69.12'

CURVE NO. 3 - B LINE 4
 PI STA. 345+44.65
 N: 168765.9475
 E: 2119778.0089
 $\Delta = 48^{\circ}26'10.77''$ RT.
 $D = 8^{\circ}08'10.67''$
 T = 316.75'
 L = 595.31'
 R = 704.20'
 E = 67.96'
 V = 50 M.P.H.

POB & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION			REVISIONS	DATE	



9/1/2017 6:42:45 AM
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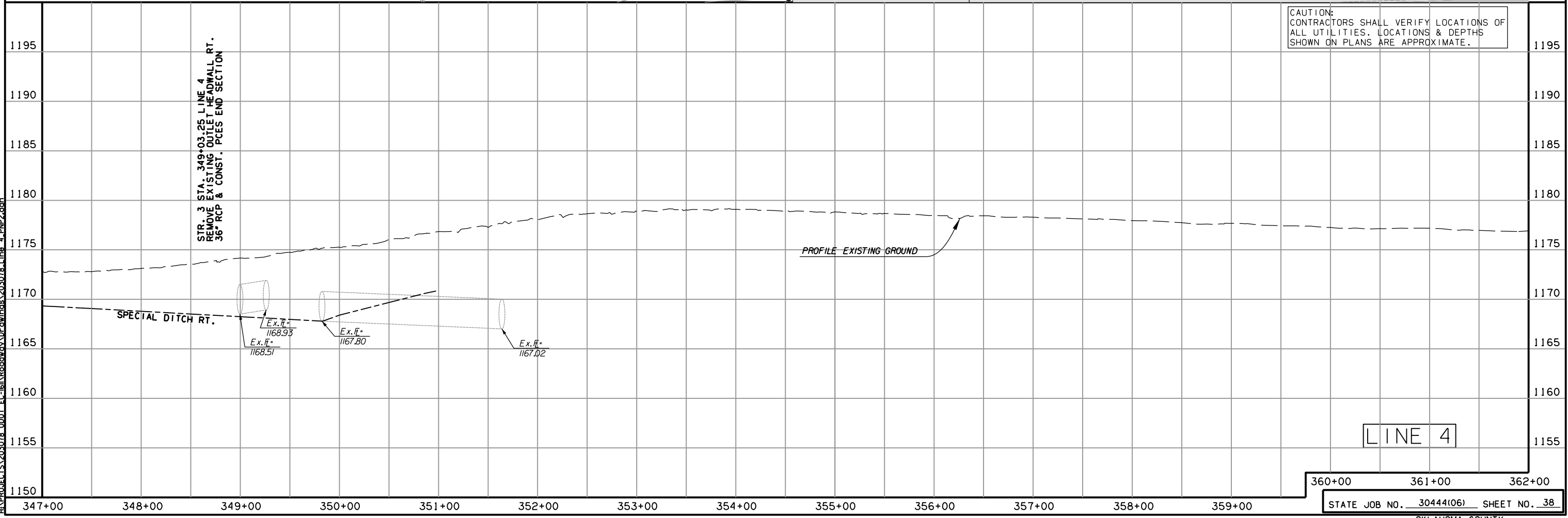
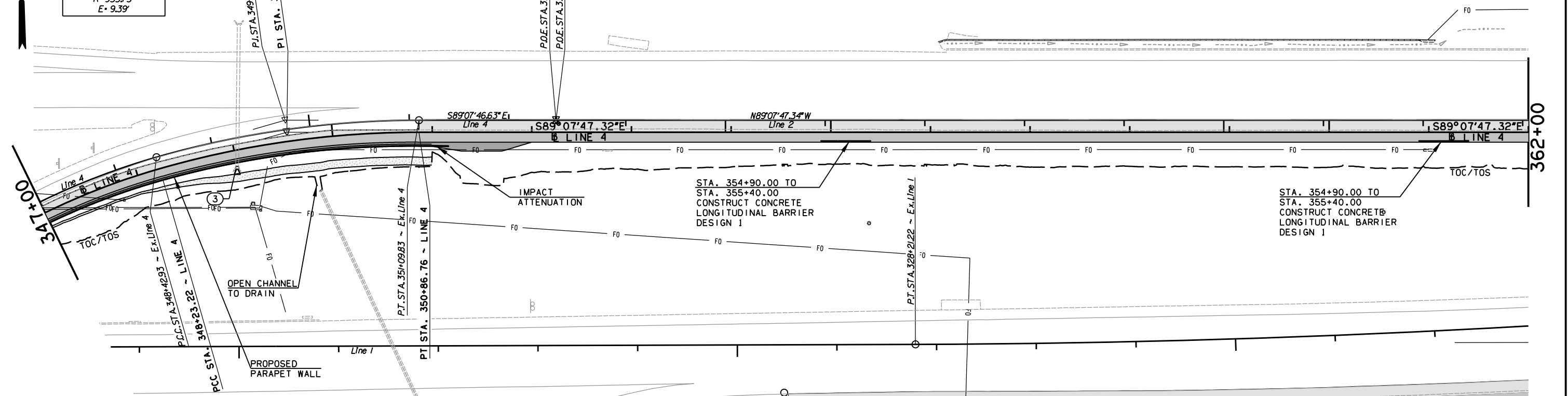


Curve No. 5 ~ Ex. Line 4
 P.I. Sta. 349+77.25
 N: 168895.2679
 E: 2120210.3162
 $\Delta = 16^{\circ}00'01.78''$ RT.
 D= 5'59"41.80"
 T= 134.33'
 L= 266.90'
 R= 955.73'
 E= 9.39'

CURVE NO. 4 - B LINE 4
 P.I. STA. 349+55.85
 N: 168883.2427
 E: 2120211.8165
 $\Delta = 16^{\circ}00'01.78''$ RT.
 D= 6'04"16.24"
 T= 132.64'
 L= 263.55'
 R= 943.73'
 E= 9.28'
 V= 50 M.P.H.

SEC. 2, T11N, R3W

POB & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. DIST. NO.	ROAD STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		

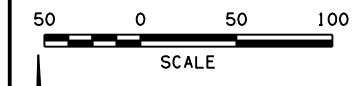


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360+00 361+00 362+00

STATE JOB NO. 30444(06) SHEET NO. 38

OKLAHOMA COUNTY



320

SEC. 2, T11N, R3W

310

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION		REVISIONS		DATE		

CAUTION:
OVERHEAD ELECTRIC
LINES CROSSING

LINE 4
 PI STA. 372+36.79
 N: 168848.5754
 E: 2122494.2154
 Δ = 2°54'33.75" LT.

362+00

S89°07'47.32"W
LINE 4

N89°07'47.34"W
Line 2

N87°57'38.93"E
LINE 4

MEET & MATCH
EXISTING PVMT.

Line 1 S83°29'12.63"W

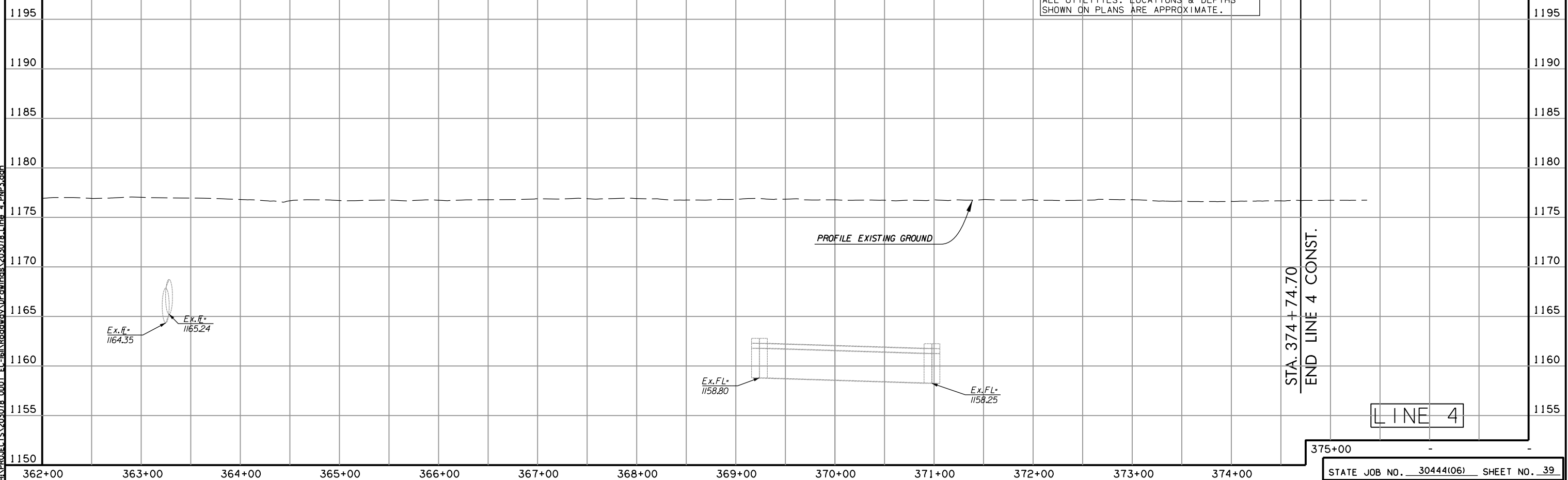
P.O.E. STA. 374+74.70 ~ LINE 4

P.T. STA. 308+57.54 ~ Ex. Line 2

STA. 368+85.00 TO
STA. 369+65.00
CONSTRUCT CONCRETE
LONGITUDINAL BARRIER
DESIGN 1

STA. 355+00.00 TO
STA. 365+00.00
CONSTRUCT CONCRETE
LONGITUDINAL BARRIER

CAUTION:
CONTRACTORS SHALL VERIFY LOCATIONS OF
ALL UTILITIES. LOCATIONS & DEPTHS
SHOWN ON PLANS ARE APPROXIMATE.

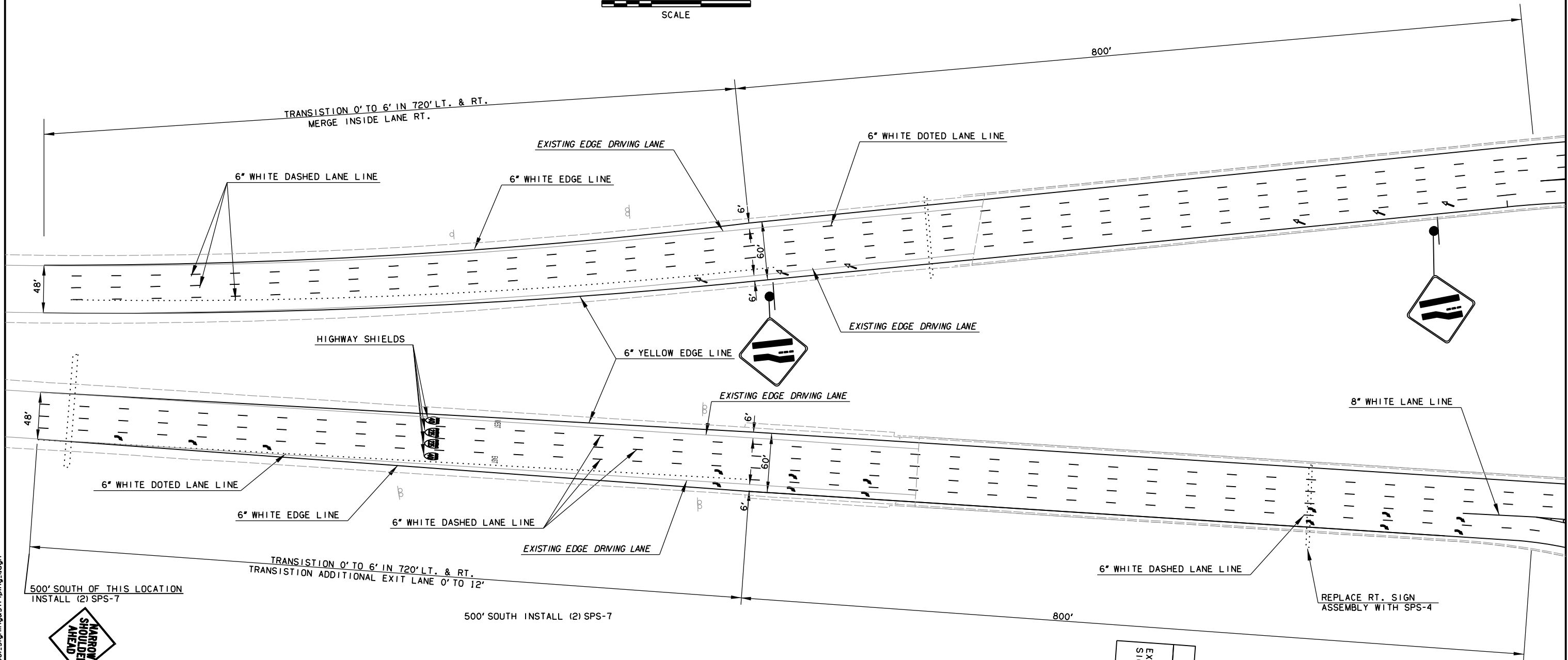
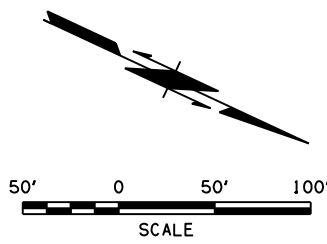


LINE 4

375+00

9/1/2017 6:42:57 AM H:\PROJECTS\203078_0001_EC-IB\Roadway\Drawings\203078_Line_4_PMP3.dwg

POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION	REVISIONS	DATE				

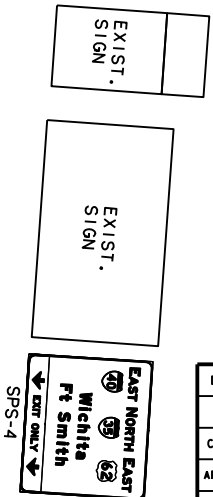


9/1/2017 6:42:59 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\30444106_Signing&Striping.dgn

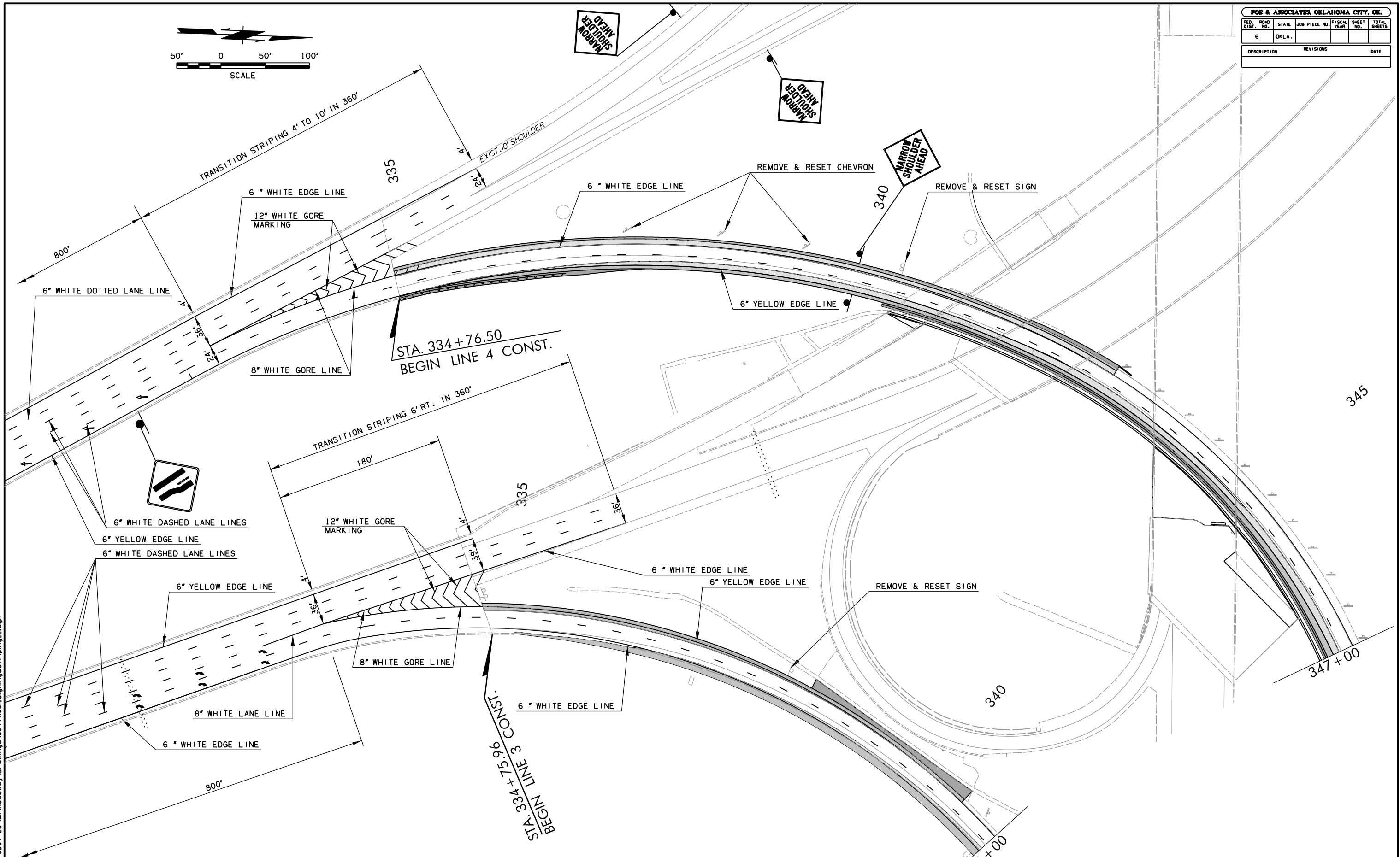
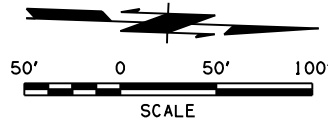
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DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

SIGNING & STRIPING
SHEET 1 OF 5

STATE JOB NO. 30444106 SHEET NO. 40
OKLAHOMA COUNTY



POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION	REVISIONS	DATE				



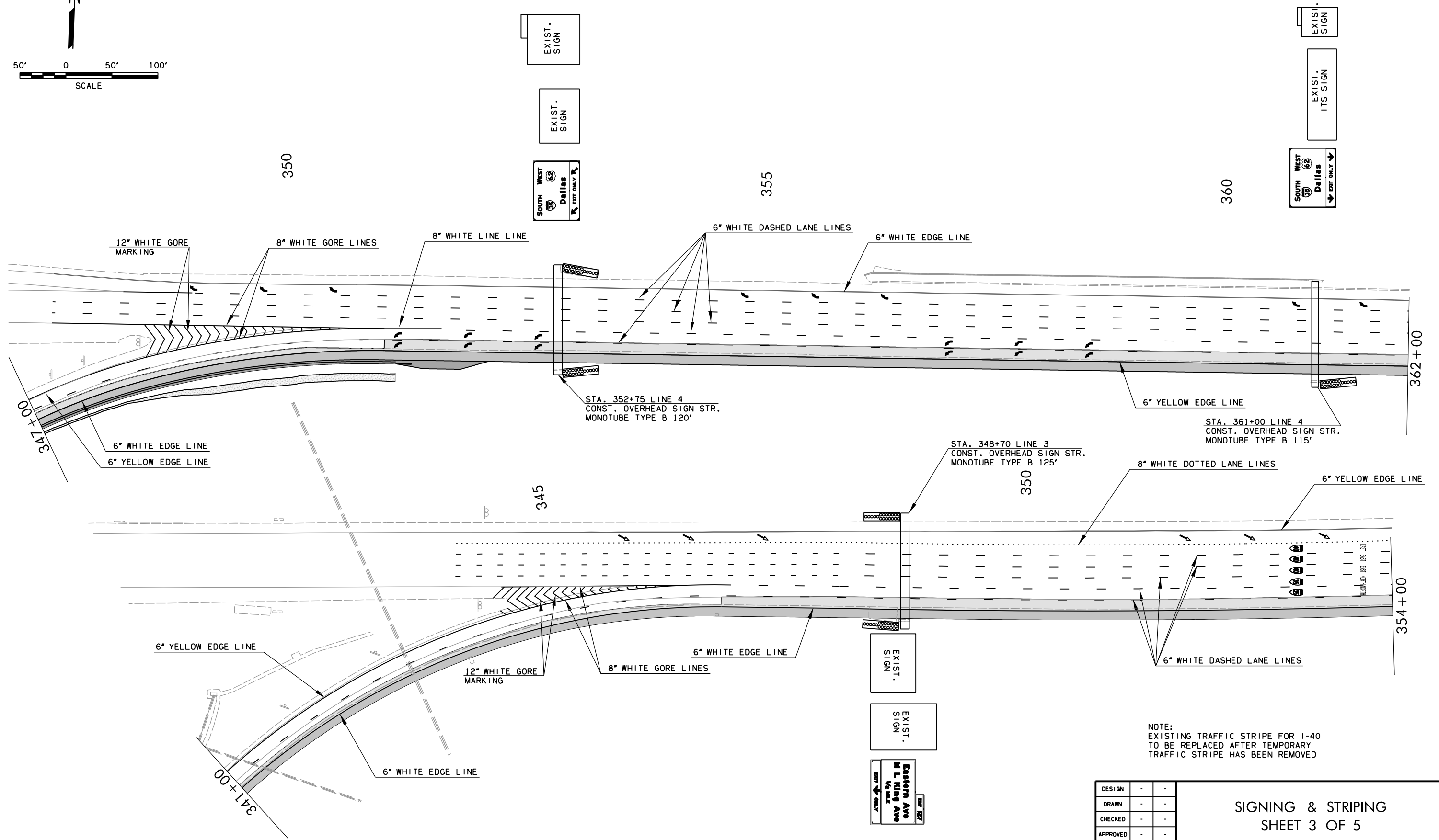
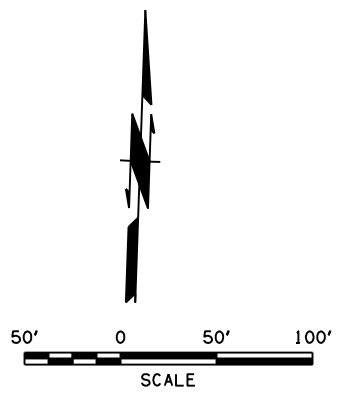
9/1/2017 6:43:00 AM
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DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

SIGNING & STRIPING
SHEET 2 OF 5

STATE JOB NO. 304441061 SHEET NO. 41
OKLAHOMA COUNTY

POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		



NOTE:
EXISTING TRAFFIC STRIPE FOR I-40
TO BE REPLACED AFTER TEMPORARY
TRAFFIC STRIPE HAS BEEN REMOVED

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

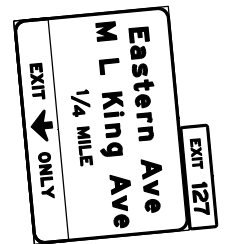
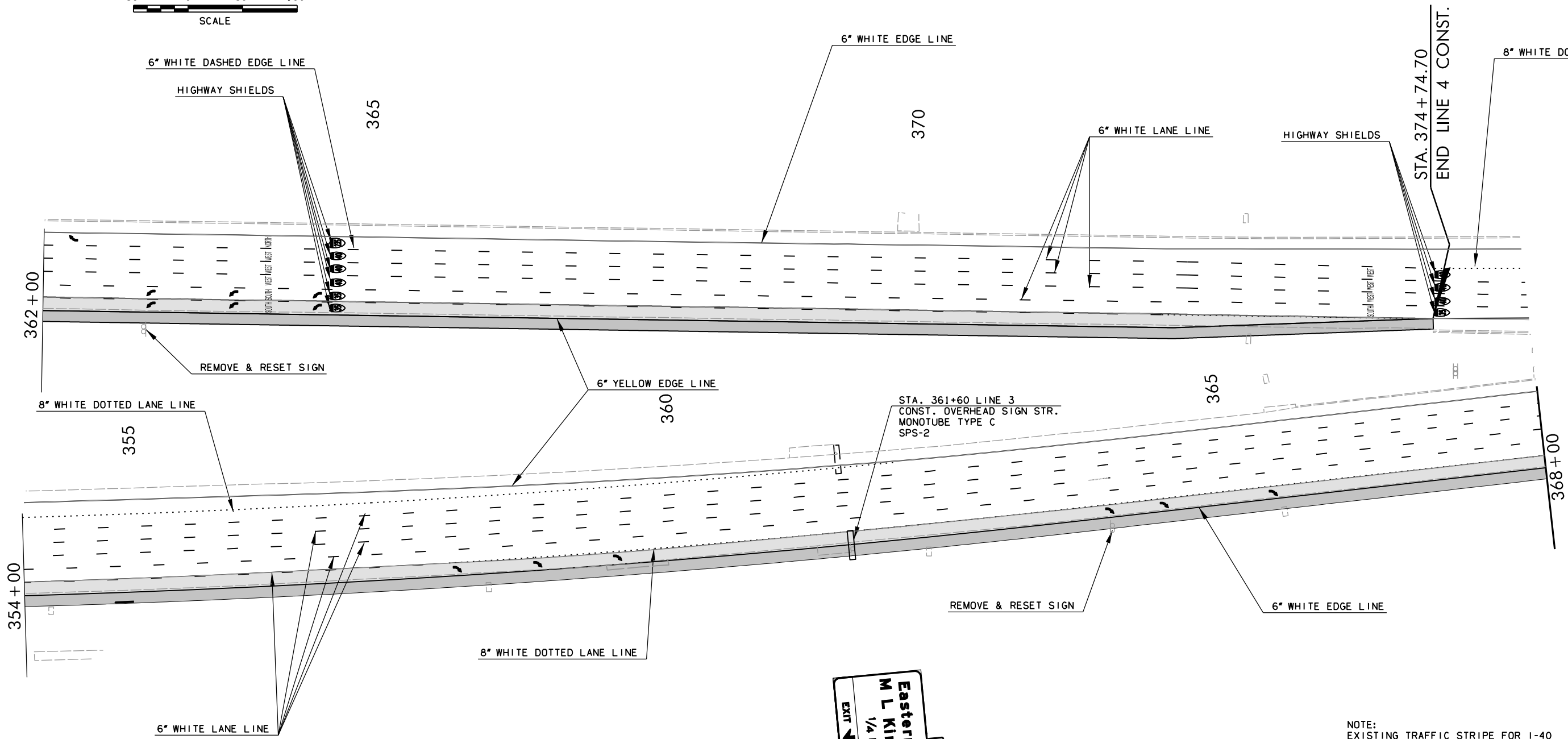
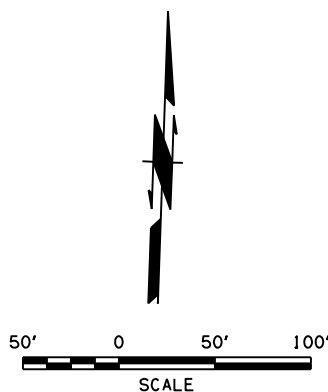
SIGNING & STRIPING SHEET 3 OF 5

STATE JOB NO. 30444(06) SHEET NO. 42

OKLAHOMA COUNTY

9/1/2017 6:43:08 AM
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POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION		REVISIONS		DATE		



NOTE:
EXISTING TRAFFIC STRIPE FOR I-40
TO BE REPLACED AFTER TEMPORARY
TRAFFIC STRIPE HAS BEEN REMOVED

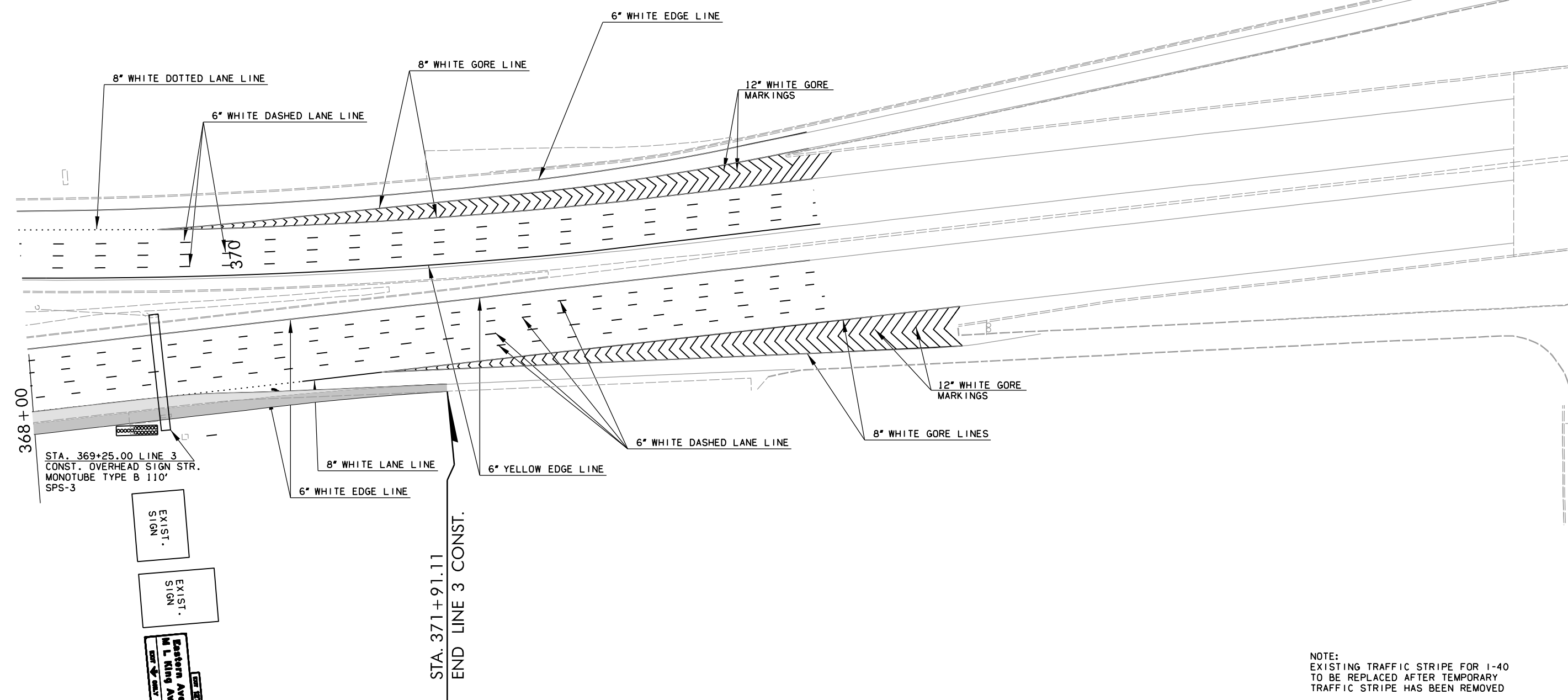
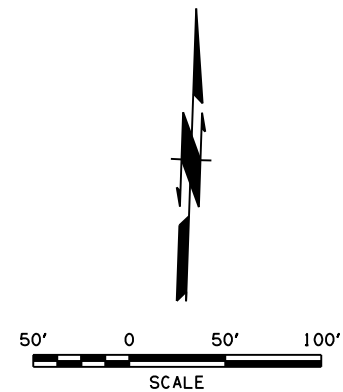
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CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

SIGNING & STRIPING
SHEET 4 OF 5

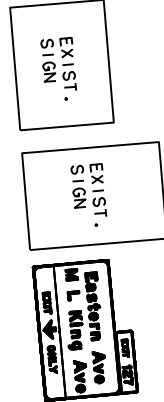
STATE JOB NO. 30444(06) SHEET NO. 43
OKLAHOMA COUNTY

9/1/2017 6:43:43 AM H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\30444(06)_Signing&Striping_4.dgn

POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION		REVISIONS		DATE		



368+00
 STA. 369+25.00 LINE 3
 CONST. OVERHEAD SIGN STR.
 MONOTUBE TYPE B 110'
 SPS-3



STA. 371+91.11
 END LINE 3 CONST.

NOTE:
 EXISTING TRAFFIC STRIPE FOR I-40
 TO BE REPLACED AFTER TEMPORARY
 TRAFFIC STRIPE HAS BEEN REMOVED

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

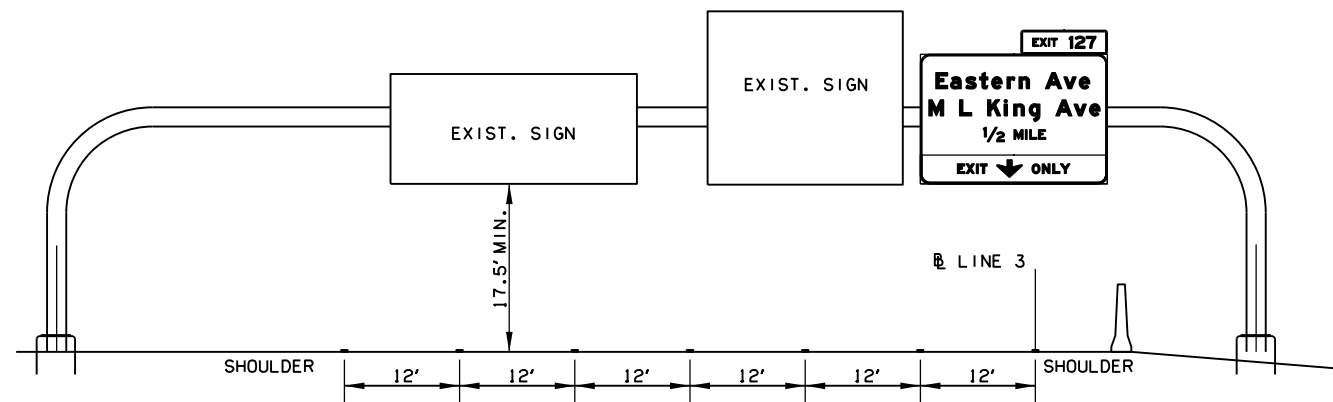
SIGNING & STRIPING
 SHEET 5 OF 5

STATE JOB NO. 30444(06) SHEET NO. 44

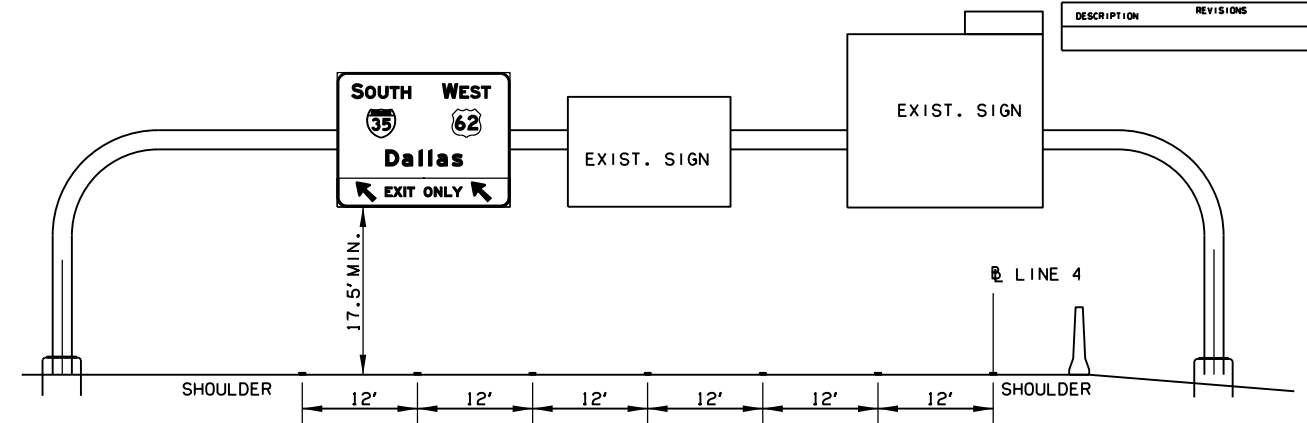
OKLAHOMA COUNTY

9/1/2017 6:43:14 AM H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\30444(06)_Signing&Striping_5.dgn

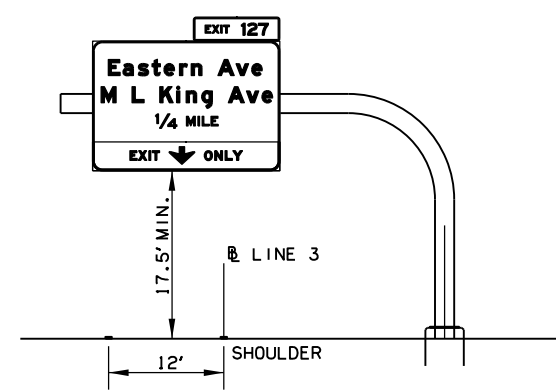
POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION		REVISIONS		DATE		



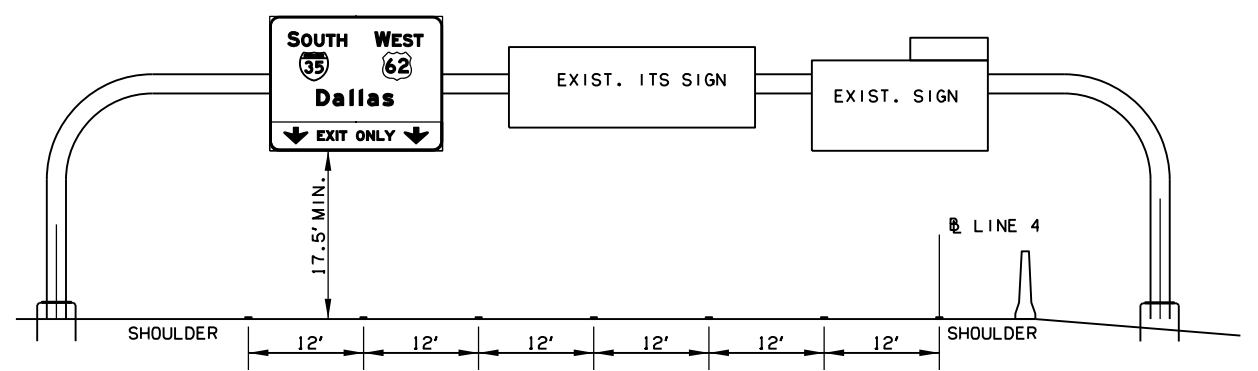
OVERHEAD SIGN STRUCTURE
125' MONOTUBE TYPE B
STA.348+70.00 @ LINE 3



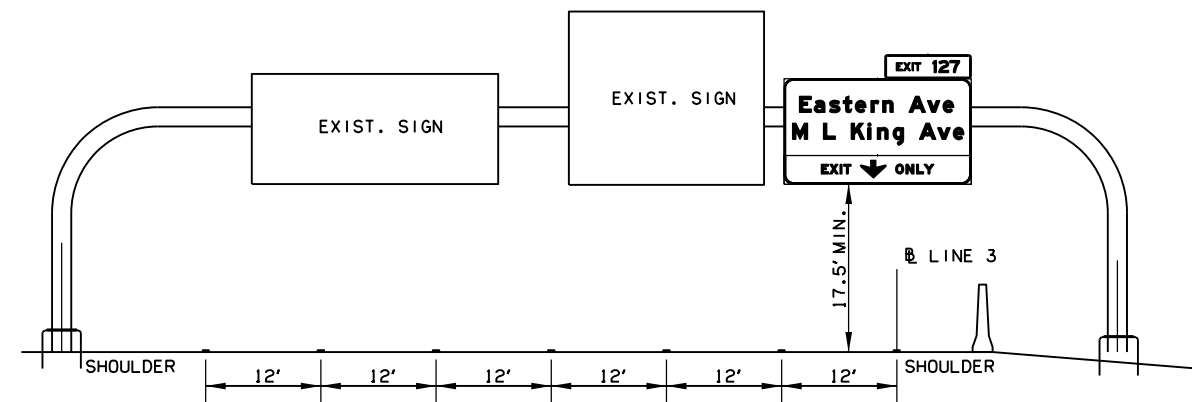
OVERHEAD SIGN STRUCTURE
120' MONOTUBE TYPE B
STA.352+75 @ LINE 4



OVERHEAD SIGN STRUCTURE
MONOTUBE TYPE B
STA.361+60.00 @ LINE 3



OVERHEAD SIGN STRUCTURE
115' MONOTUBE TYPE B
STA.361+00 @ LINE 4



OVERHEAD SIGN STRUCTURE
110' MONOTUBE TYPE B
STA.369+25.00 @ LINE 3

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

OVERHEAD SIGN PLACEMENT

STATE JOB NO. 30444(06) SHEET NO. 45

OKLAHOMA COUNTY

9/1/2017 6:43:45 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\30444(06)_sign_placement_ldgn

Panel Style: tab1.bsi
M.U.T.C.D.: 2009 Edition

SIGN DETAIL
1:100



SIGN NUMBER	SPS-1
WIDTH x HGHT.	19'-6" x 13'-6"
BORDER WIDTH	2"
CORNER RADIUS	3.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/Black

SYMBOL	X	Y	WID	HT
AROUND	95.6	8	32	22

M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
E	X	I	T	1	2	7				79	E 2000
14.5	23.4	34.1	37.6	60.1	67.6	81.4					10,15
E	a	s	t	e	r	n	A	v	e	192.6	EM 2000
19.4	37.8	56.8	74.2	89.2	108.6	123.4	136.6	156.6	179.4	198.8	20/15
M	L	K	i	n	g	A	v	e		214.2	EM 2000
10.7	29.3	49.3	64.1	84.1	104.9	116.9	136.3	149.5	169.5	192.3	20/15
1/2	M	I	L	E						78.1	E 2000
78.7	117.1	131.5	136.8	147.8							18,12
E	X	I	T							37	EM 2000
46.6	57.2	70.2	74.7								12
O	N	L	Y							47.8	EM 2000
139.6	152.6	165.6	175.2								12

Panel Style: tab1.bsi
M.U.T.C.D.: 2009 Edition

Panel Style: tab1.bsi
M.U.T.C.D.: 2009 Edition

SIGN DETAIL
1:100



SIGN NUMBER	SPS-2
WIDTH x HGHT.	19'-6" x 13'-6"
BORDER WIDTH	2"
CORNER RADIUS	3.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/Black

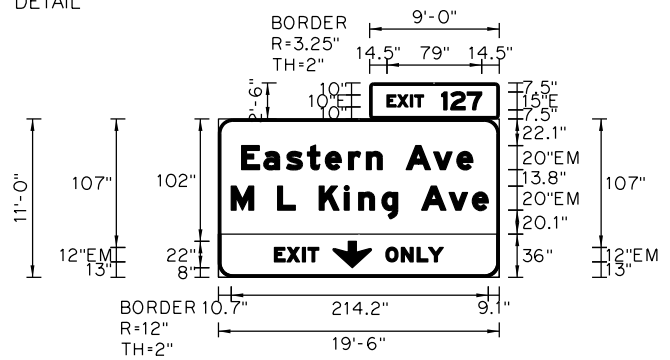
SYMBOL	X	Y	WID	HT
AROUND	95.6	8	32	22

M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
E	X	I	T	1	2	7				79	E 2000
14.5	23.4	34.1	37.6	60.1	67.6	81.4					10,15
E	a	s	t	e	r	n	A	v	e	192.6	EM 2000
19.4	37.8	56.8	74.2	89.2	108.6	123.4	136.6	156.6	179.4	198.8	20/15
M	L	K	i	n	g	A	v	e		214.2	EM 2000
10.7	29.3	49.3	64.1	84.1	104.9	116.9	136.3	149.5	169.5	192.3	20/15
1/4	M	I	L	E						78.1	E 2000
78.7	117.1	131.5	136.8	147.8							18,12
E	X	I	T							37	EM 2000
46.6	57.2	70.2	74.7								12
O	N	L	Y							47.8	EM 2000
139.6	152.6	165.6	175.2								12

SIGN DETAIL
1:100



SIGN NUMBER	SPS-3
WIDTH x HGHT.	19'-6" x 11'-0"
BORDER WIDTH	2"
CORNER RADIUS	3.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/Black

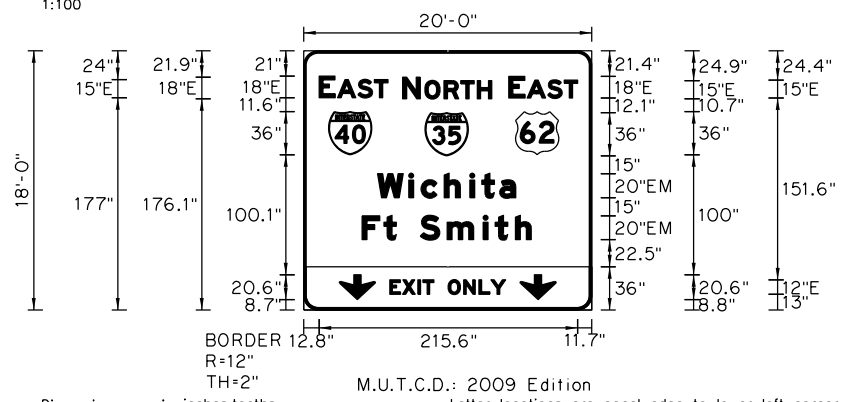
SYMBOL	X	Y	WID	HT
AROUND	95.6	8	32	22

M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
E	X	I	T	1	2	7				79	E 2000
14.5	23.4	34.1	37.6	60.1	67.6	81.4					10,15
E	a	s	t	e	r	n	A	v	e	192.6	EM 2000
19.4	37.8	56.8	74.2	89.2	108.6	123.4	136.6	156.6	179.4	198.8	20/15
M	L	K	i	n	g	A	v	e		214.2	EM 2000
10.7	29.3	49.3	64.1	84.1	104.9	116.9	136.3	149.5	169.5	192.3	20/15
E	X	I	T							37	EM 2000
46.6	57.2	70.2	74.7								12
O	N	L	Y							47.8	EM 2000
139.6	152.6	165.6	175.2								12

SIGN DETAIL
1:100



SIGN NUMBER	SPS-4
WIDTH x HGHT.	20'-0" x 18'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/Black

SYMBOL	X	Y	WID	HT
M1_1	20.7	129.4	36	36
M1_1	101.1	128.5	36	36
M1_4	176.5	129.3	36	36
AROUND	29.7	8.7	30	20.6
AROUND	180.3	8.7	30	20.6

M.U.T.C.D.: 2009 Edition

Dimensions are in inches.tenths Letter locations are panel edge to lower left corner

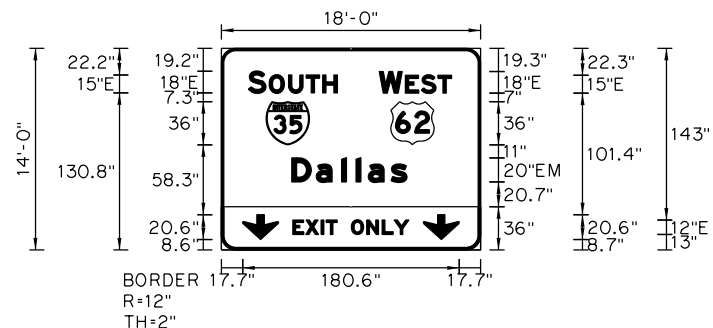
LETTER POSITIONS (X)										LENGTH	SERIES/SIZE
E	A	S	T							57.4	E 2000
12.8	28.1	45.1	58.9								18,15
N	O	R	T	H						74.2	E 2000
82.5	100.9	117	130.8	144.6							18,15
E	A	S	T							57.4	E 2000
171	186.3	203.3	217.1								18,15
W	i	c	h	i	t	e				115	EM 2000
61.6	87.6	97.8	117.2	138.4	148.4	163.4					20/15
F	t	S	m	i	t	h				141	EM 2000
48.6	66.8	77.2	97.2	119.6	149.6	159.6	176.4				20/15
E	X	I	T	O	N	L	Y			96.6	E 2000
71.7	82.4	95.2	99.4	108.4	120.4	133.3	146.1	156.1			12

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

SPECIAL SIGN DETAILS
SHEET 1 OF 2

9/1/2017 6:43:17 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\Special_Sign_detail.dgn

SIGN DETAIL
1:100



SIGN NUMBER	SPS-5
WIDTH x HGHT.	18'-0" x 14'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/Black

SYMBOL	X	Y	WID	HT
M1_1	37.4	87.6	36	36
M1_4	141.3	87.7	36	36
ARDOWN	17.7	8.7	30	20.6
ARDOWN	168.3	8.7	30	20.6

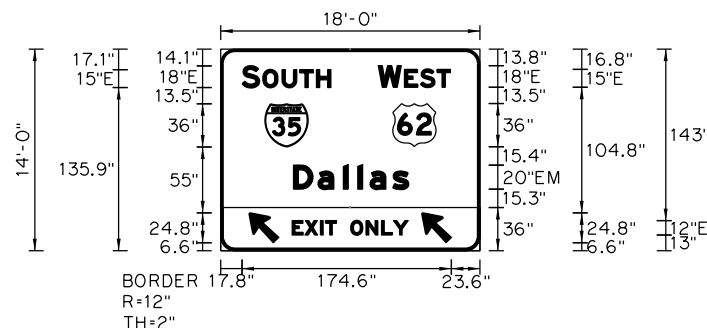
M.U.T.C.D.: 2009 Edition

Dimensions are in inches,tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE					
S	O	U	T	H													E	2000	
22.6	39.9	56	70.7	84.5													74	18,15	
W	E	S	T															E	2000
131.6	153.4	166.7	180.5														60.1	18,15	
D	a	I	I	a	s													EM	2000
58.7	79.1	100.3	112.3	122.5	141.5												96	20/15	
E	X	I	T		O	N	L	Y										E	2000
59.7	70.4	83.2	87.4	96.4	108.4	121.3	134.1	144.1									96.6	12	

SIGN DETAIL
1:100



SIGN NUMBER	sps-6
WIDTH x HGHT.	18'-0" x 14'-0"
BORDER WIDTH	2"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/Black

SYMBOL	X	Y	WID	HT
M1_1	36.9	86.4	36	36
M1_4	143.5	86.7	36	36
AR_Type A	23.6	6.6	20	31.5
AR_Type A	167.6	6.6	20	31.5

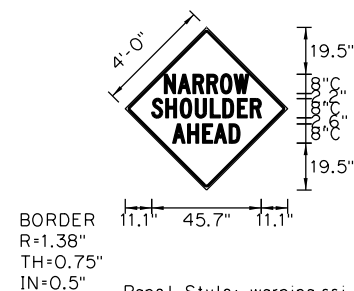
M.U.T.C.D.: 2009 Edition

Dimensions are in inches,tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE						
S	O	U	T	H														E	2000	
17.8	35.2	51.2	65.9	79.7														74	18,15	
W	E	S	T																E	2000
131.4	153.1	166.5	180.3															60.1	18,15	
D	a	I	I	a	s														EM	2000
60.7	81.1	102.3	114.3	124.5	143.5												96	20/15		
E	X	I	T		O	N	L	Y											E	2000
59.7	70.4	83.2	87.4	96.4	108.4	121.3	134.1	144.1									96.6	12		

SIGN DETAIL
1:50



SIGN NUMBER	SPS-7
WIDTH x HGHT.	5'-8" x 5'-8"
BORDER WIDTH	0.75"
CORNER RADIUS	0"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Yellow
LEGEND/BORDER	TYPE: Reflective COLOR: Black

SYMBOL	X	Y	WID	HT

Panel Style: warning.ssi
M.U.T.C.D.: 2009 Edition

Dimensions are in inches,tenths

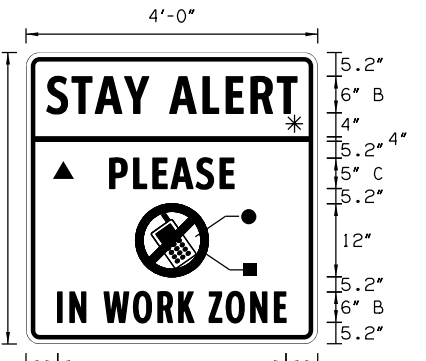
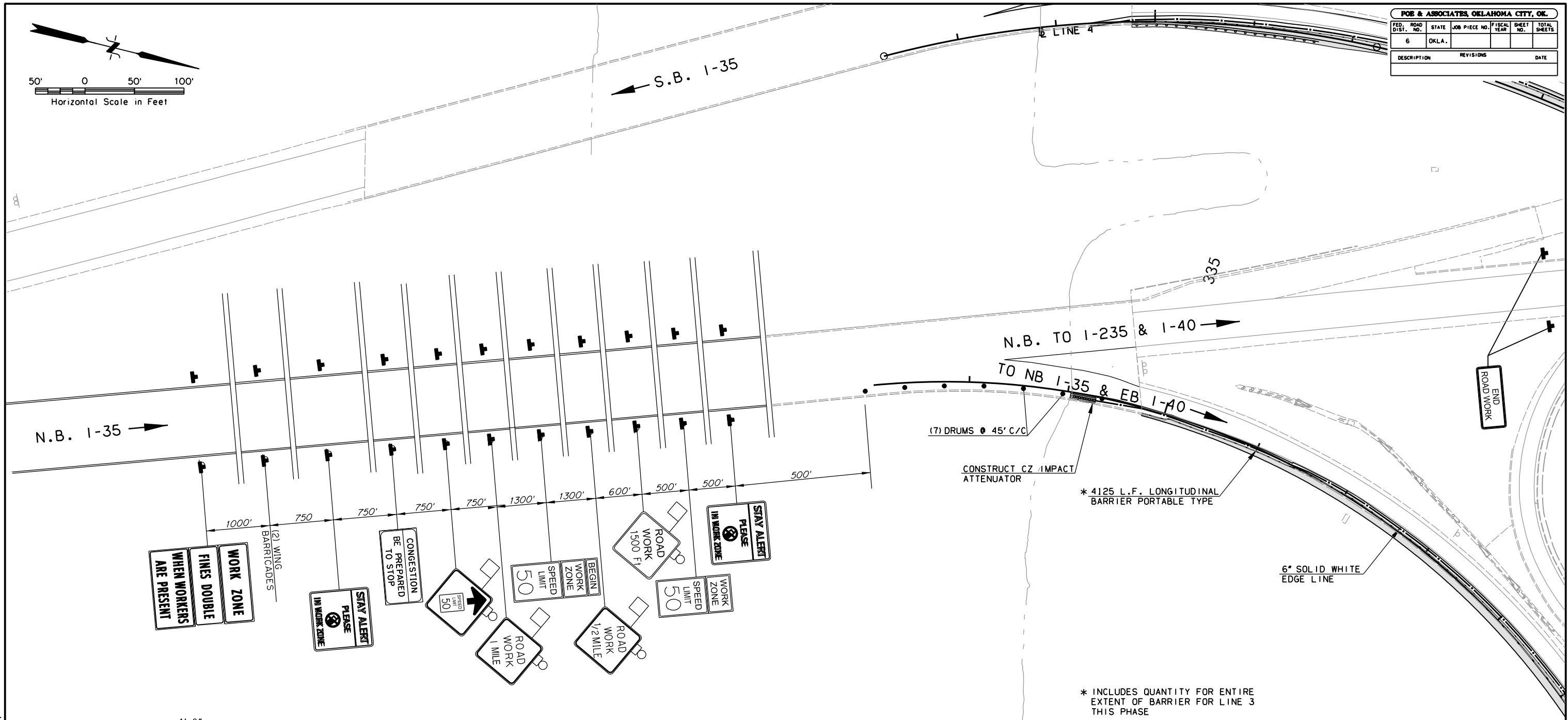
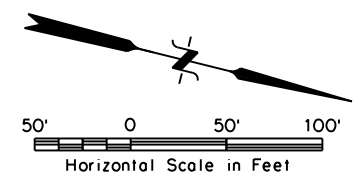
Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)										LENGTH	SERIES/SIZE										
N	A	R	R	O	W														C	2000	
16.4	22	28.3	34.1	39.8	45.5														35.1	8	
S	H	O	U	L	D	E	R													C	2000
11.1	16.9	23	29.3	35.6	40.8	46.9	52.3												45.7	8	
A	H	E	A	D																C	2000
19.9	26.1	32.4	37.2	43.4															28	8	

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

SPECIAL SIGN DETAILS
SHEET 2 OF 2

POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION	REVISIONS	DATE				



BORDER
R=1.5"
TH=0.75"
TH=0.75"

- COLOR:
LEGEND, SYMBOL AND BORDER:
BLACK (NON-REFLECTORIZED)
BACKGROUND:
▲ FLUORESCENT ORANGE (REFLECTORIZED)
* FLUORESCENT YELLOW (REFLECTORIZED)
● WHITE (REFLECTORIZED)
■ RED (NON-REFLECTORIZED)

GENERAL SEQUENCE OF CONSTRUCTION

PHASE I LINE 3 AND 4
MOVE TRAFFIC 5 FEET TO THE LEFT AND CONSTRUCT RIGHT SIDE OF RAMPS AND 1-35/1-40 COMPLETE.

PHASE II
MOVE TRAFFIC TO RIGHT AS SHOWN ON PHASE II TRAFFIC CONTROL PLAN AND CONSTRUCT REMAINDER OF LINES 3 AND 4.

UPON COMPLETION OF CONSTRUCTION TEMPORARY STRIPING ON 1-35/1-40 SHALL BE REMOVED AND REPLACED WITH PERMANENT STRIPE AS SHOWN ON SIGNING AND STRIPING PLAN SHEETS. TRAFFIC WILL BE CONTROLIED USING A MOVING WORKZONE

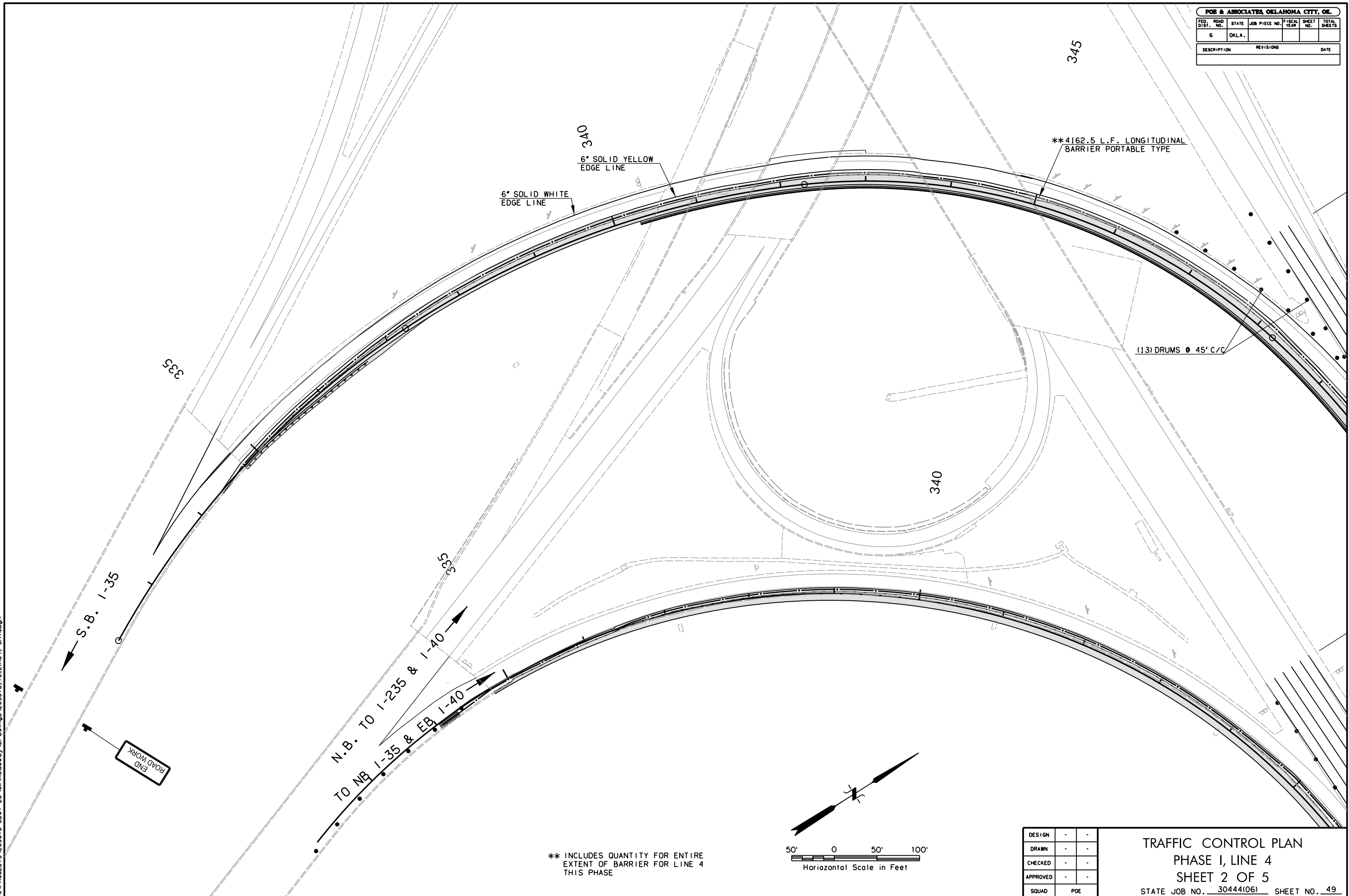
* INCLUDES QUANTITY FOR ENTIRE EXTENT OF BARRIER FOR LINE 3 THIS PHASE

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

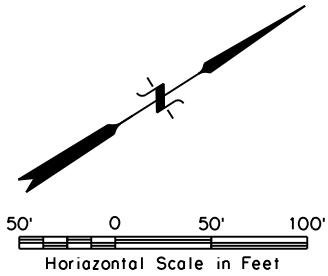
TRAFFIC CONTROL PLAN
PHASE I, LINE 3
SHEET 1 OF 5
STATE JOB NO. 304441061 SHEET NO. 48
OKLAHOMA COUNTY

9/1/2017 6:43:48 AM H:\PROJECTS\203078_001 EC-161\Roadway\Drawings\203078_TC-Line3_Sht1.dgn

POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION		REVISIONS		DATE		



** INCLUDES QUANTITY FOR ENTIRE EXTENT OF BARRIER FOR LINE 4 THIS PHASE

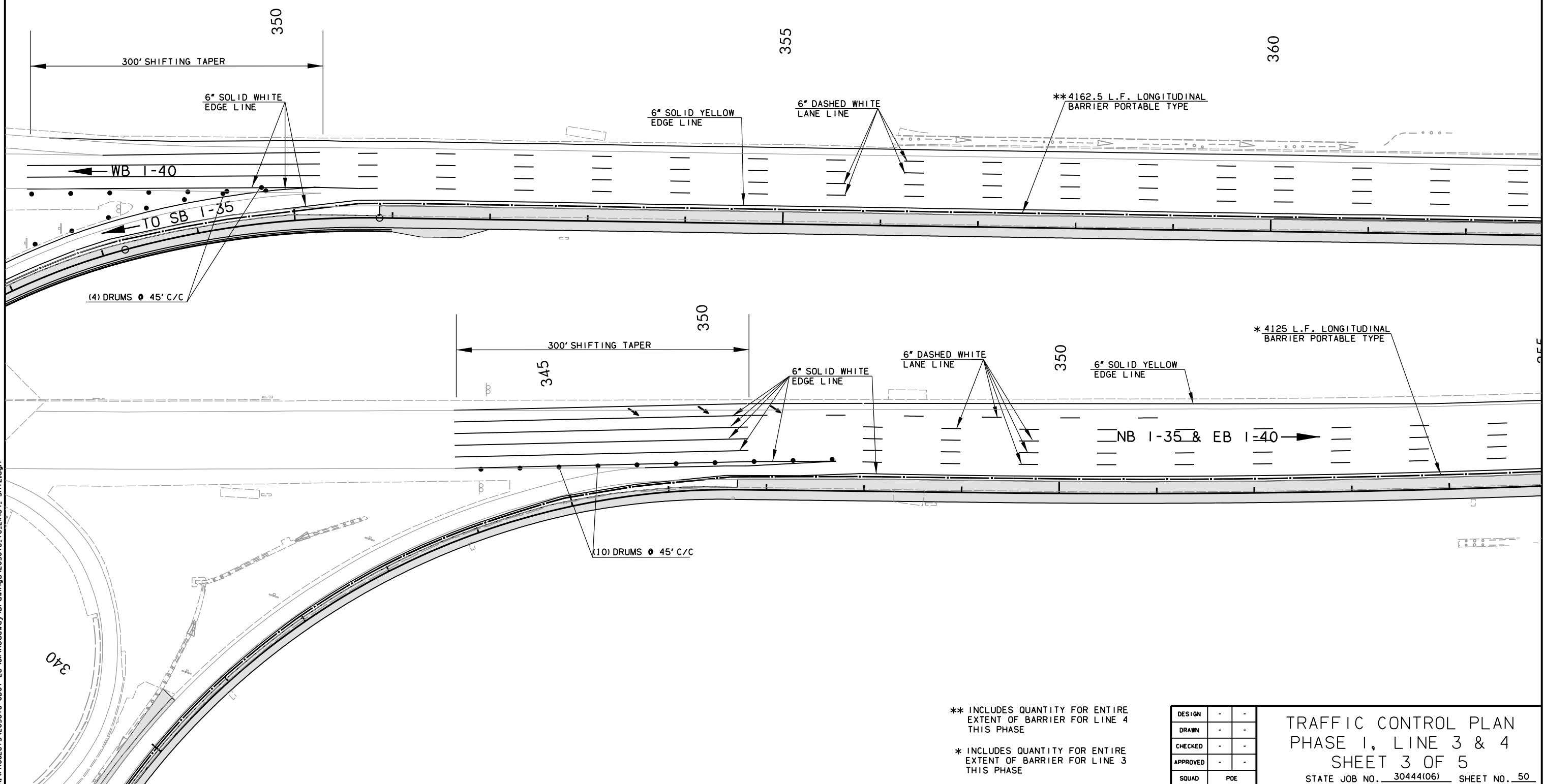
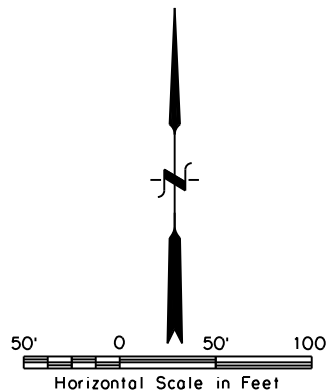


DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

TRAFFIC CONTROL PLAN
 PHASE I, LINE 4
 SHEET 2 OF 5
 STATE JOB NO. 30444(06) SHEET NO. 49
 OKLAHOMA COUNTY

9/1/2017 6:43:19 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\203078_TC_Line4_Sht1.dgn

POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		



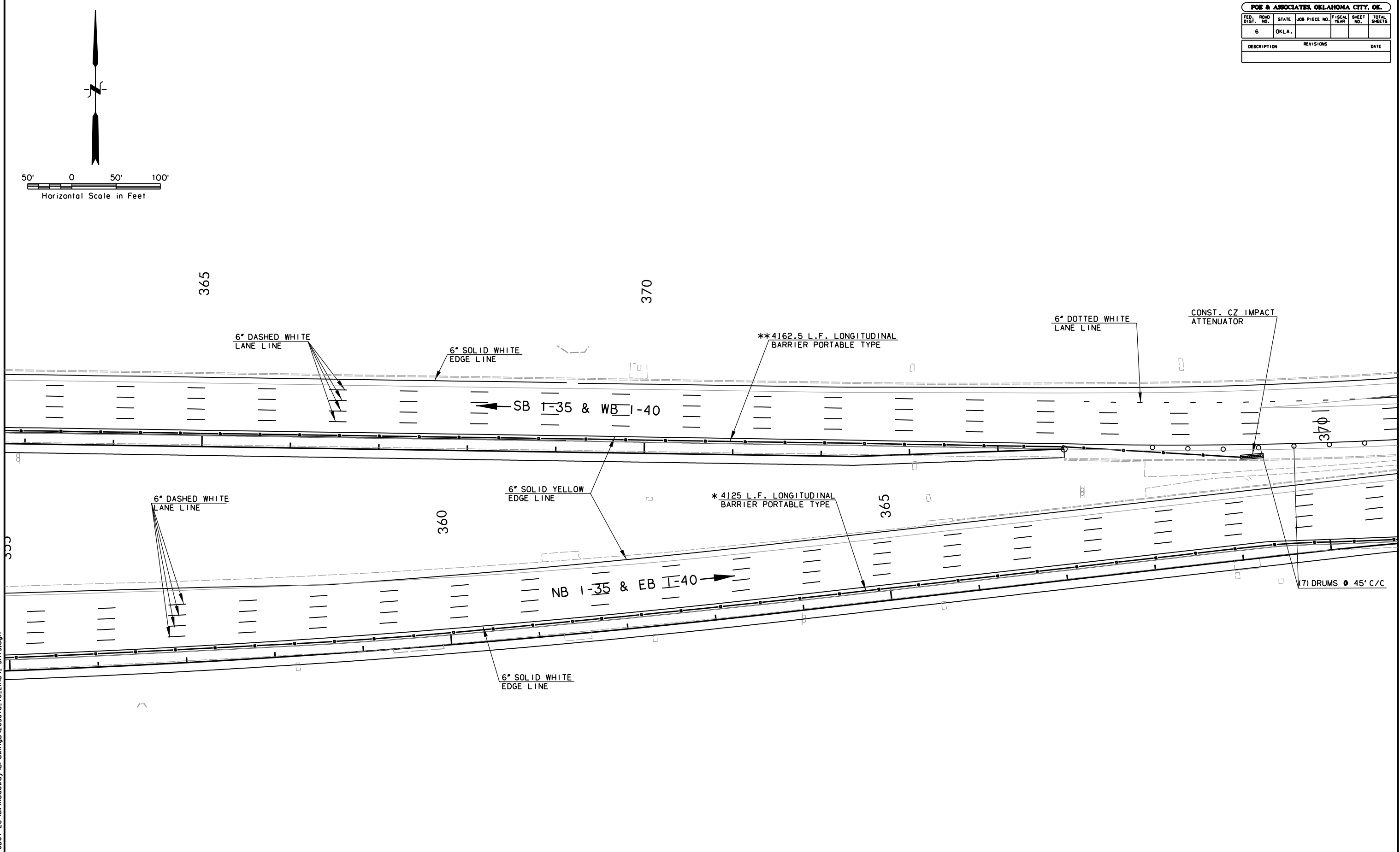
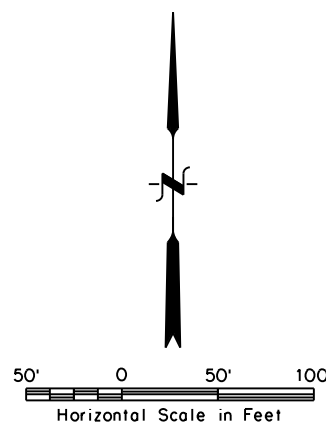
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** INCLUDES QUANTITY FOR ENTIRE EXTENT OF BARRIER FOR LINE 4 THIS PHASE
 * INCLUDES QUANTITY FOR ENTIRE EXTENT OF BARRIER FOR LINE 3 THIS PHASE

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

TRAFFIC CONTROL PLAN
 PHASE 1, LINE 3 & 4
 SHEET 3 OF 5
 STATE JOB NO. 30444(06) SHEET NO. 50
 OKLAHOMA COUNTY

POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION		REVISIONS			DATE	



9/1/2017 6:43:21 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\203078_TC-Line4_Sht3.dgn

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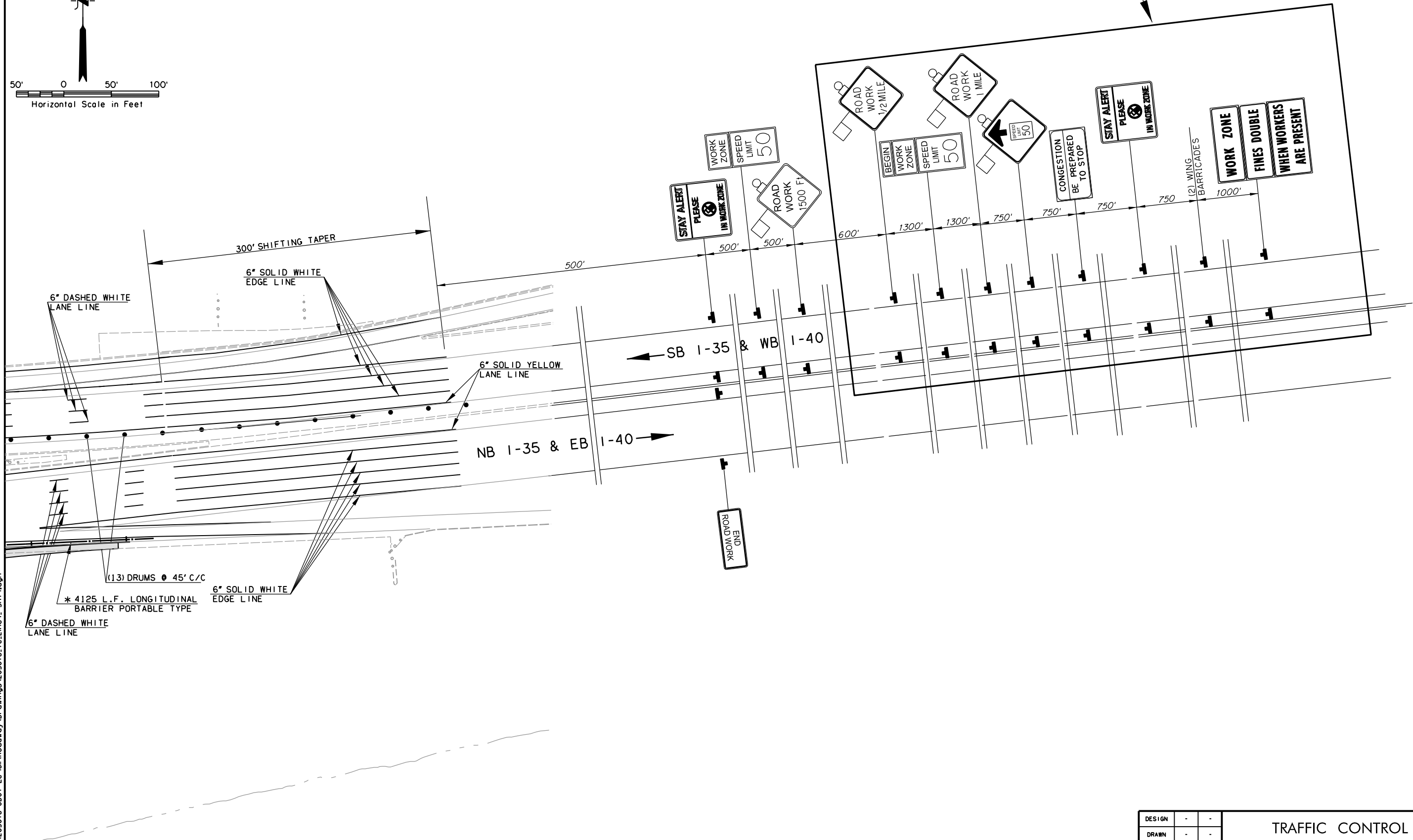
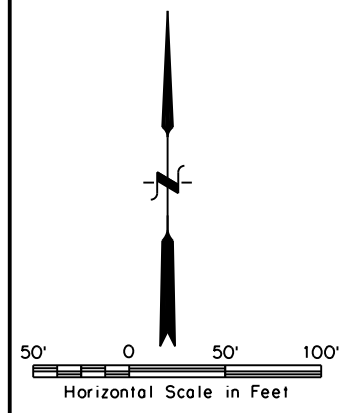
* INCLUDES QUANTITY FOR ENTIRE EXTENT OF BARRIER FOR LINE 3 THIS PHASE

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

TRAFFIC CONTROL PLAN
 PHASE I, LINES 3 & 4
 SHEET 4 OF 5
 STATE JOB NO. 30444(06) SHEET NO. 51
 OKLAHOMA COUNTY

POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS		DATE	

THESE SIGNS TO BE PLACED ON I-40 & I-35 (DOUBLE QUANTITIES)



9/1/2017 6:43:22 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\203078_TC-L-1.dwg - Sht4.dgn

(13) DRUMS @ 45' C/C
 * 4125 L.F. LONGITUDINAL BARRIER PORTABLE TYPE
 6" SOLID WHITE EDGE LINE
 6" DASHED WHITE LANE LINE

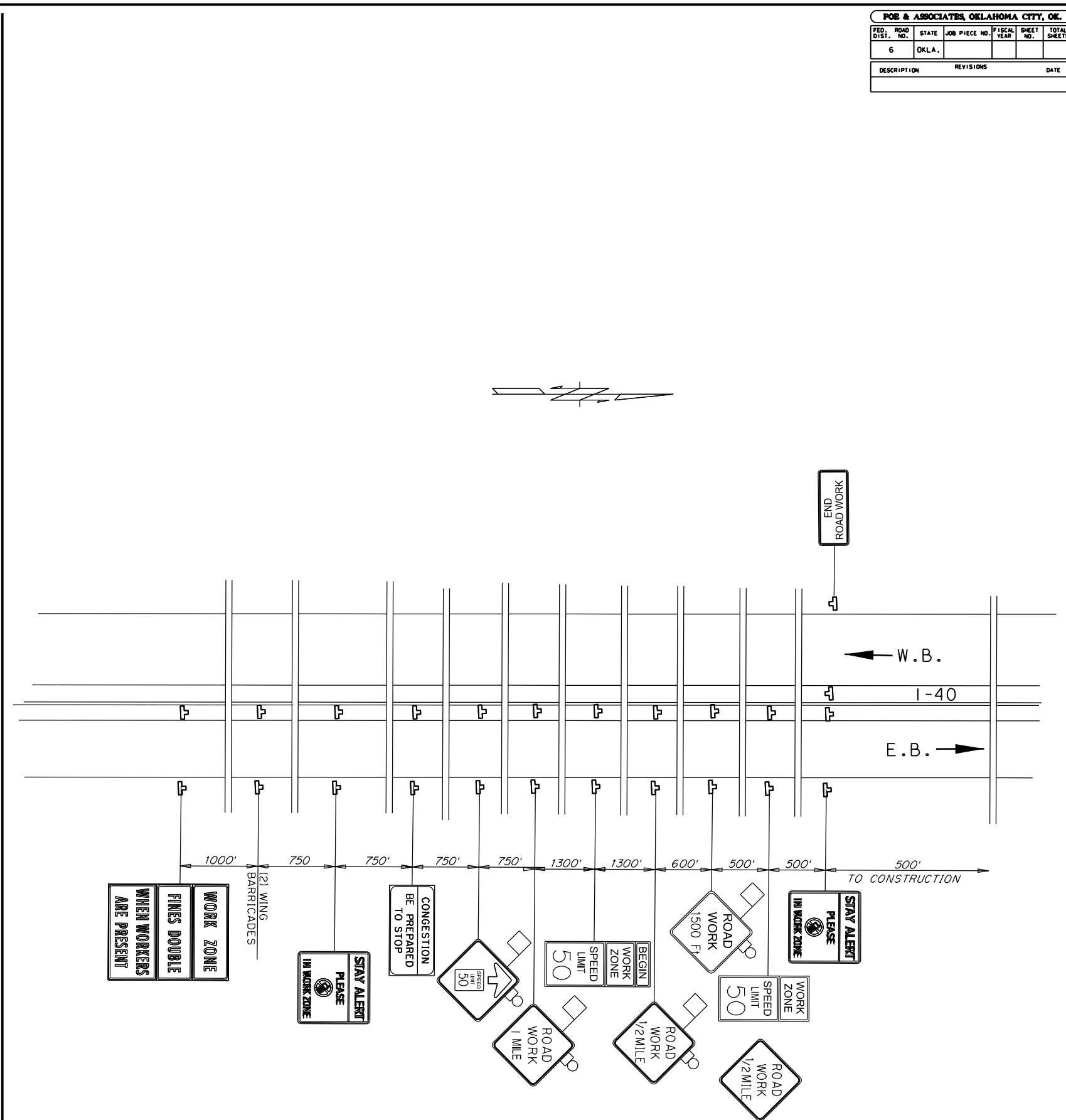
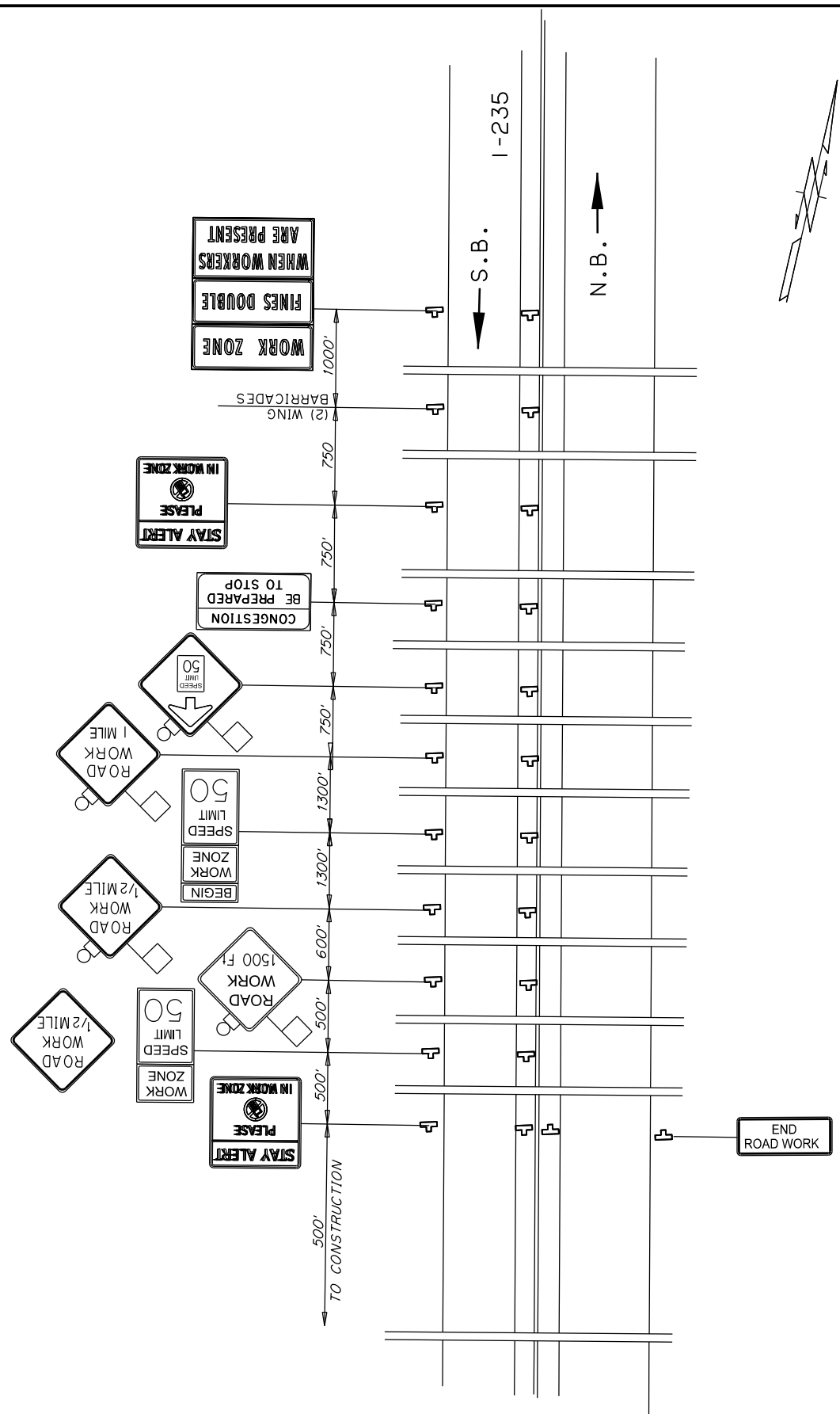
* INCLUDES QUANTITY FOR ENTIRE EXTENT OF BARRIER FOR LINE 3 THIS PHASE

DESIGN	-	-
DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

TRAFFIC CONTROL PLAN
 PHASE I, LINES 3 & 4
 SHEET 5 OF 5
 STATE JOB NO. 30444(06) SHEET NO. 52
 OKLAHOMA COUNTY

POE & ASSOCIATES, OKLAHOMA CITY, OK.					
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	OKLA.				
DESCRIPTION		REVISIONS	DATE		

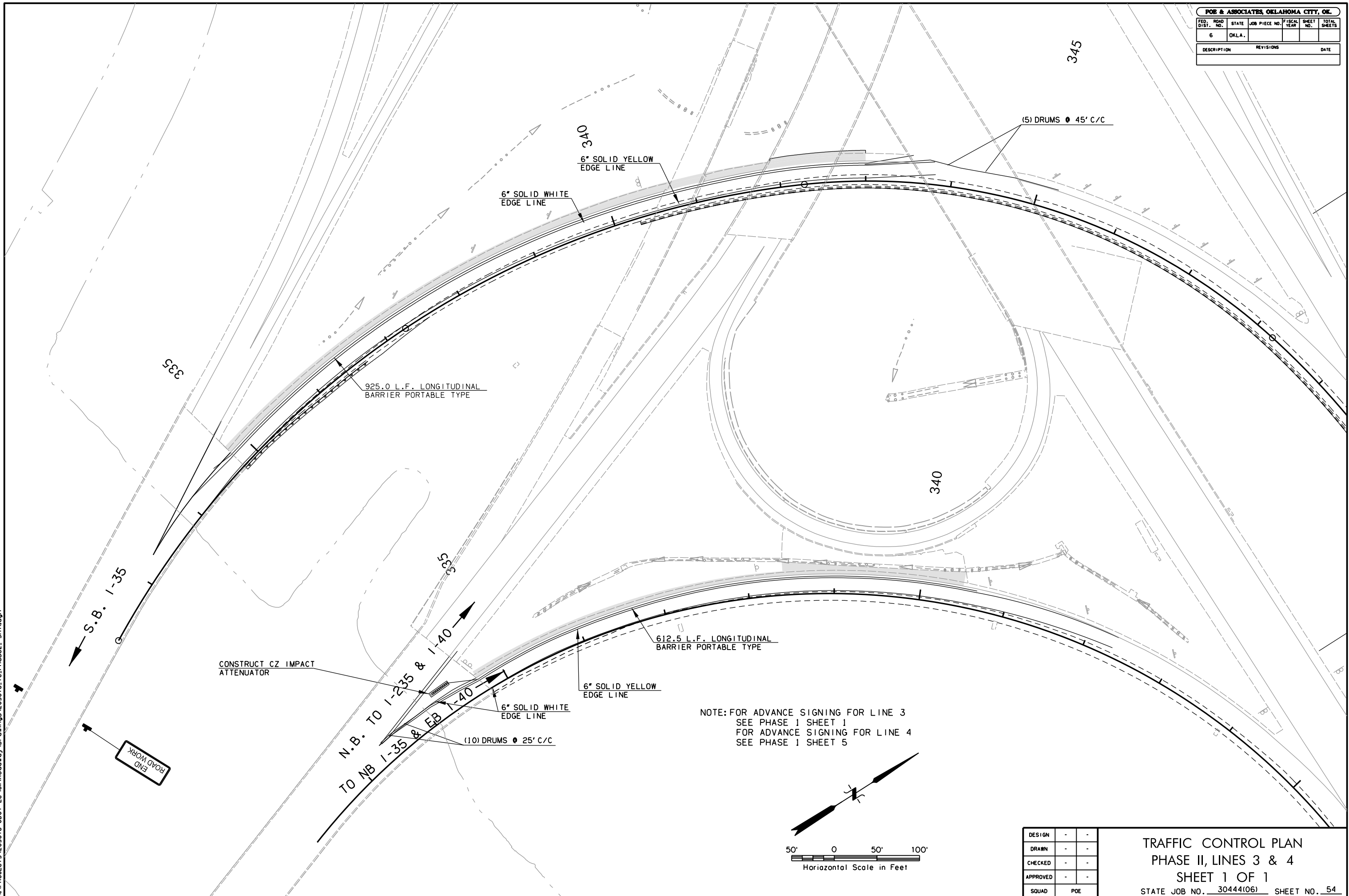
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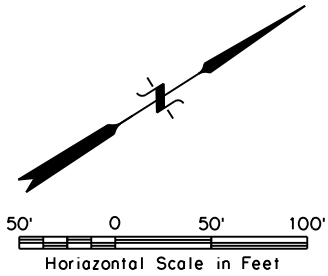
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DRAWN	-	-
CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

TRAFFIC CONTROL PLAN
ADVANCED SIGNING E.B. I-40
AND S.B. I-235 ALL PHASES
 STATE JOB NO. 30444106 SHEET NO. 53
 OKLAHOMA COUNTY

POE & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION		REVISIONS		DATE		



NOTE: FOR ADVANCE SIGNING FOR LINE 3
SEE PHASE 1 SHEET 1
FOR ADVANCE SIGNING FOR LINE 4
SEE PHASE 1 SHEET 5

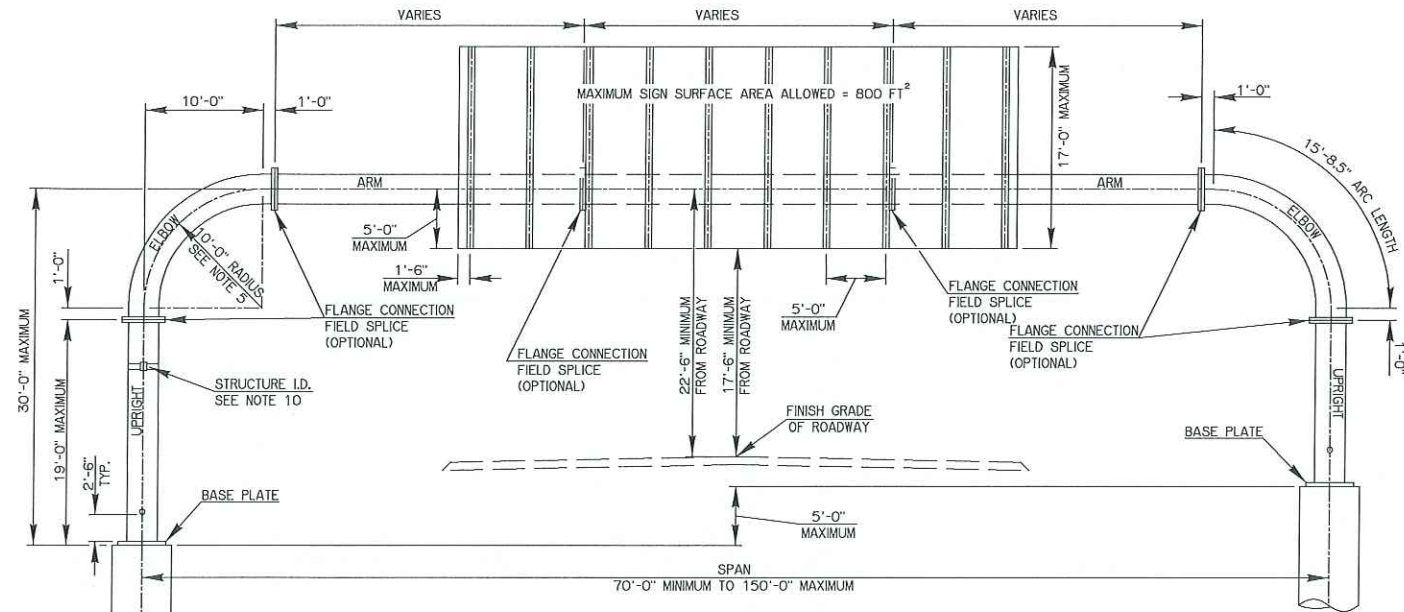


DESIGN	-	-
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CHECKED	-	-
APPROVED	-	-
SQUAD	POE	

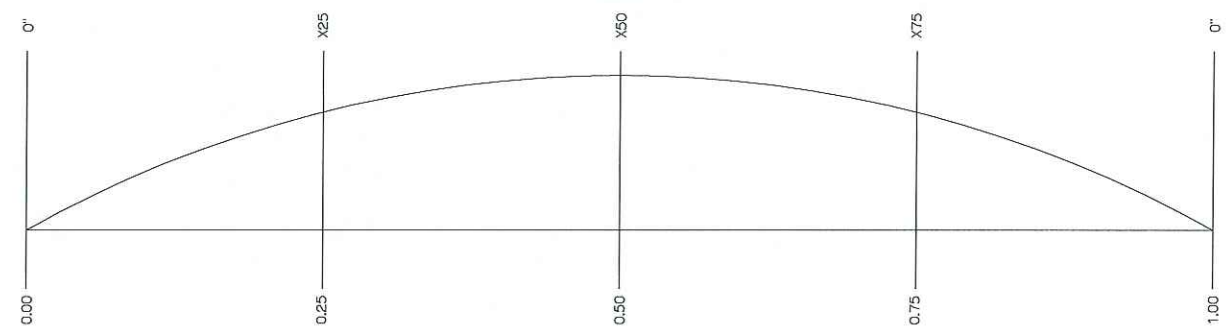
TRAFFIC CONTROL PLAN
PHASE II, LINES 3 & 4
SHEET 1 OF 1
STATE JOB NO. 304441061 SHEET NO. 54
OKLAHOMA COUNTY

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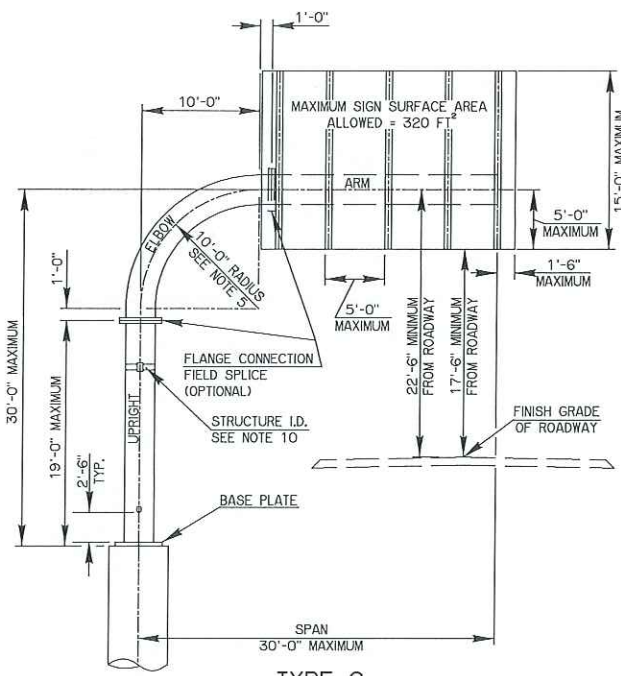
REV. NO.	DESCRIPTION	REVISIONS	DATE



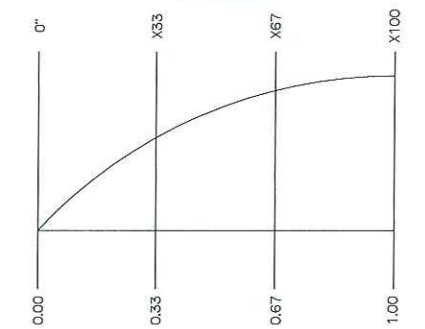
TYPE B



TYPE B CAMBER DIAGRAM (SEE CAMBER SCHEDULE)



TYPE C



TYPE C CAMBER DIAGRAM (SEE CAMBER SCHEDULE)

SPAN (FT)	X25 (IN)	X50 (IN)	X75 (IN)
70	1.08	1.27	1.08
75	1.20	1.43	1.20
80	1.32	1.61	1.32
85	1.46	1.81	1.46
90	1.61	2.03	1.61
95	1.62	1.94	1.62
100	1.77	2.22	1.77
105	1.93	2.46	1.93
110	2.10	2.72	2.10
115	2.28	3.00	2.28
120	2.48	3.31	2.48
125	2.60	3.65	2.60
130	2.92	4.01	2.92
135	3.17	4.40	3.17
140	3.43	4.83	3.43
145	3.71	5.29	3.71
150	4.02	5.78	4.02

SPAN (FT)	X33 (IN)	X67 (IN)	X100 (IN)
30	0.86	1.44	2.03

GENERAL INSTALLATION PROCEDURES

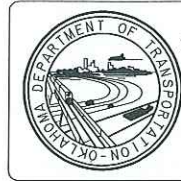
ENSURE THAT ALL ANCHOR BOLTS, BASE PLATES, AND FLANGE PLATES ARE PROPERLY ALIGNED TO PREVENT UNACCEPTABLE DISTORTION OF THE STRUCTURE UPON FINAL INSTALLATION. IN THE EVENT THAT THE DRILLED SHAFT AND ANCHOR BOLTS ARE INSTALLED PRIOR TO THE FABRICATION OF THE MONOTUBE STRUCTURE, THE MONOTUBE FABRICATOR SHOULD COORDINATE WITH THE DRILLED SHAFT CONTRACTOR TO ENSURE THAT THE BASE PLATES AND FLANGES ARE FABRICATED SO THAT PROPER ALIGNMENT OF ALL BOLT HOLES IS ACHIEVED. IN THE EVENT THAT THE MONOTUBE SIGN STRUCTURE IS FABRICATED PRIOR TO THE INSTALLATION OF THE DRILLED SHAFT AND ANCHOR BOLTS, THE DRILLED SHAFT CONTRACTOR SHOULD COORDINATE WITH THE SIGN STRUCTURE FABRICATOR TO ENSURE THAT THE ANCHOR BOLT INSTALLATION ALLOWS FOR PROPER ALIGNMENT OF ALL BOLTED CONNECTIONS. CONSTRUCTION TOLERANCES SET FORTH IN THE 2009 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SHALL APPLY.

ERECT MONOTUBE SIGN STRUCTURE IN A MANNER APPROVED BY THE RESIDENT ENGINEER. SUPPORT ALL COMPONENTS OF THE STRUCTURE UNTIL FINAL TENSIONING OF ALL BOLTS AND FASTENERS IS COMPLETE.

INSTALLATION OF ALL FASTENERS AND BOLTS USING DIRECT TENSION INDICATORS SHALL BE IN ACCORDANCE WITH THE 2009 OKLAHOMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. ENSURE THAT THE MONOTUBE SIGN STRUCTURE IS PROPERLY ATTACHED TO THE ANCHOR BOLTS AND THAT ALL LEVELING NUTS ARE FLUSH WITH THE BOTTOM OF THE BASE PLATE. ENSURE THAT ALL FLANGES HAVE BEEN SECURELY FASTENED.

ITEM NO.	ITEM	UNIT
852(D)	OVHD.SN.STR., MONOTUBE TYPE B	EA
852(E)	OVHD.SN.STR., MONOTUBE TYPE C	EA

- GENERAL NOTES**
- MAXIMUM SIGN HEIGHT TO BE USED ON THE TYPE C STRUCTURE SHALL BE 15 FEET. MAXIMUM SIGN HEIGHT TO BE USED ON THE TYPE B STRUCTURE SHALL BE 17 FEET.
 - MAXIMUM SIGN AREA TO BE USED ON THE TYPE C STRUCTURE SHALL BE 320 SQUARE FEET. MAXIMUM SIGN AREA TO BE USED ON THE TYPE B STRUCTURE SHALL BE 800 SQUARE FEET.
 - FOR SIGNS LESS THAN 10'-0" TALL, SIGNS SHALL BE CENTERED ON THE SPAN. FOR SIGNS GREATER THAN OR EQUAL TO 10'-0" TALL, BOTTOM OF SIGNS SHALL BE 5'-0" BELOW ϕ OF THE SPAN.
 - THE LENGTH OF THE ARM MEMBERS LABELED AS 'VARIES' SHOULD BE A MINIMUM OF 30'-0" FOR TYPE 'B' MONOTUBE SIGN STRUCTURES.
 - ADJUST BEND RADIUS ACCORDING TO CAMBER DIAGRAM. ALL TRANSVERSE PLATES CONNECTING TO AN ELBOW SHALL BE PERPENDICULAR TO THE CENTERLINE OF THE ELBOW AT THE LOCATION OF THE CONNECTION.
 - STRUCTURAL STEEL TUBING USED IN THE FABRICATION OF MONOTUBES SHALL EITHER BE COLD-FORMED WELDED OR SEAMLESS TUBING CONFORMING TO THE ASTM A500, GRADE C (MEETING AASHTO M270 ZONE 2 FRACTURE CRITICAL CHARPY V-NOTCH REQUIREMENTS) OR API 5L PSL 2, GRADE X52 (MEETING AASHTO M270 ZONE 2 FRACTURE CRITICAL CHARPY V-NOTCH REQUIREMENTS).
 - BASE PLATES, FLANGE PLATES, AND FILLER PLATES TO BE STRUCTURAL STEEL CONFORMING TO THE SPECIFICATIONS OF ASTM DESIGNATION: A709, GRADE 50.
 - ALL FLANGE BOLTS TO CONFORM TO THE SPECIFICATIONS OF ASTM A490, TYPE 1, AND SHALL BE TIGHTENED AND INSPECTED USING DIRECT TENSION INDICATORS TO CONFORM TO THE SPECIFICATIONS OF ASTM F959, TYPE 490. ALL WASHERS TO CONFORM TO THE SPECIFICATIONS OF ASTM F436, TYPE 1. ALL NUTS USED TO FASTEN ASTM A490 BOLTS SHALL BE ASTM A563, GRADE DH. ALL ANCHOR BOLTS TO CONFORM TO THE SPECIFICATIONS OF ASTM F1554-GRADE 55 (MEETING ASTM F1554 CHARPY V-NOTCH REQUIREMENTS) AND TO BE TIGHTENED AND INSPECTED USING DIRECT TENSION INDICATORS CONFORMING TO THE SPECIFICATIONS OF ASTM F2437 (TYPE 1 GRADE 55). ALL ANCHOR BOLT NUTS TO CONFORM TO THE SPECIFICATIONS OF ASTM A563-GRADE A. ALL ANCHOR BOLT WASHERS TO CONFORM TO THE SPECIFICATIONS OF ASTM F436, TYPE 1.
 - HOT-DIP GALVANIZE ALL TUBE MEMBERS AND PLATES PER ASTM A123. COAT ASTM A490 FASTENERS PER ASTM F1136, GRADE 3. WHEN COATING ASTM A490 FASTENERS HYDROGEN EMBRITTELEMENT SHALL BE INVESTIGATED AND PREVENTED PER THE APPLICABLE ASTM SPECIFICATIONS. COAT NUTS USED WITH ASTM A490 FASTENERS PER ASTM F1136, GRADE 5. COAT WASHERS USED WITH ASTM A490 FASTENERS PER ASTM F1136, GRADE 3. COAT ANCHOR BOLTS, NUTS USED WITH ANCHOR BOLTS, AND WASHERS USED WITH ANCHOR BOLTS PER ASTM F2329.
 - STAMP STRUCTURE IDENTIFICATION ON UPRIGHT OF STRUCTURE WITH THE FOLLOWING INFORMATION: JP# TYPE 'B' OR TYPE 'C', STRUCTURE LENGTH, MAXIMUM ALLOWABLE SIGN AREA, MAXIMUM ALLOWABLE SIGN HEIGHT, DATE MANUFACTURED, AND MANUFACTURER'S NAME.
 - MAST ARMS TO BE TEMPORARILY SUPPORTED TO TAKE ALL LOAD OFF OF THE FIELD SPLICES WHILE BOLTS ARE BEING TIGHTENED IN ORDER TO FIRMLY SEAT THE FLANGE PLATES AND BASE PLATES.
 - POSTS FOR TUBULAR SIGN STRUCTURES TO BE FORMED TO THE RADII SHOWN ON THE PLANS BY FABRICATION METHODS WHICH WILL NOT CRIMP OR BUCKLE THE INTERIOR RADIUS OF THE PIPE BEND.
 - CLIPS, EYES OR REMOVABLE BRACKETS TO BE AFFIXED TO ALL POSTS AND MAST ARMS, AS NECESSARY, TO SECURE THE SIGN DURING SHIPPING AND FOR LIFTING AND MOVING DURING ERECTION. THIS IS TO PREVENT DAMAGE TO THE FINISHED GALVANIZED OR PAINTED SURFACES. BRACKETS ON TUBULAR SIGN STRUCTURES TO BE REMOVED AFTER ERECTION. DETAILS OF SUCH DEVICES TO BE SHOWN ON THE SHOP DRAWINGS.
 - BOLTS WITH DIAMETERS EXCEEDING BY UP TO 1/4 INCH THE DIAMETER OF THE BOLTS SHOWN ON THE PLANS MAY BE USED, PROVIDED THAT THE REQUIRED CLEARANCES AND EDGE DISTANCE ARE NOT REDUCED BELOW THAT REQUIRED FOR THE LARGER BOLT.
 - FABRICATE ALL SIGN STRUCTURES TO THE LARGEST PRACTICAL SECTIONS PRIOR TO GALVANIZING. SPLICE LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND THE CONTRACTOR SHALL NOT COMMENCE FABRICATION UNTIL SUCH SPLICE LOCATIONS ARE APPROVED.
 - ALL TYPE 'C' SIGN STRUCTURES TO HAVE A REMOVABLE CAP ON THE END OF THE HORIZONTAL MEMBER OF THE STRUCTURE.
 - WELDING OF STEEL TO CONFORM TO THE REQUIREMENTS OF AWS D1.1 (LATEST REVISION). GRIND ALL AREAS TO BE WELDED TO BRIGHT METAL. COMPLETE ALL WELDING AND REQUIRED NON-DESTRUCTIVE TESTING BEFORE MATERIAL IS GALVANIZED. TEST ALL CIRCUMFERENTIAL WELDS NON-DESTRUCTIVELY USING THE ENHANCED MAGNETIC PARTICLE METHOD IN ACCORDANCE WITH ODOT STANDARD SPECIFICATION 720.03B. MAXIMUM WELD UNDERCUT SHALL BE 0.01".
 - ALL TUBE-TO-TRANSVERSE PLATE COMPLETE JOINT PENETRATION (CJP) GROOVE WELDS SHALL BE ULTRASONICALLY TESTED (UT) FOR CRACKS BEFORE AND AFTER GALVANIZATION.
 - WELD FILLER MATERIAL SHALL MEET ALL CHARPY V-NOTCH REQUIREMENTS SPECIFIED IN AWS D1.1 AT A TEMPERATURE OF 40°F.
 - ALL BASE METAL SHALL BE PREHEATED IN ACCORDANCE WITH AWS D1.1 PRIOR TO WELDING.
 - BACKING RING SHALL BE THOROUGHLY FUSED WITH THE WELD MATERIAL.
 - SMAW ELECTRODES SHALL BE THE LOW-HYDROGEN CLASSIFICATION AS DEFINED BY AWS D1.1.
 - STORAGE, HANDLING, AND USE OF LOW-HYDROGEN ELECTRODES SHALL BE IN CONFORMANCE WITH AWS D1.1.
 - THERE SHALL BE NO POST WELD HEAT TREATMENT OF THE TUBE-TO-TRANSVERSE PLATE CONNECTION.
 - THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO ODOT BRIDGE DIVISION. A WELDING PROCEDURE SPECIFICATION (WPS) SHALL BE ATTACHED TO THE SHOP DRAWINGS.
 - BACKING RING MATERIAL SHALL BE IN ACCORDANCE WITH AWS D1.1.

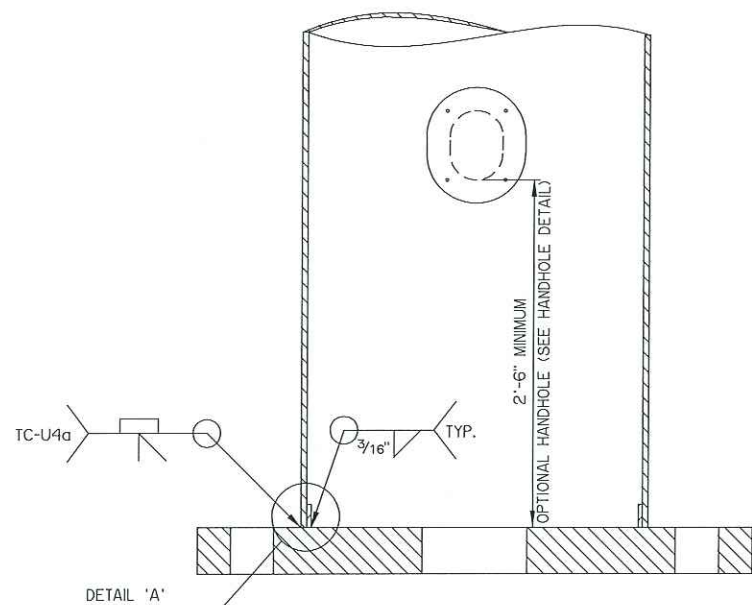


PREPARED BY:
OKLAHOMA DEPARTMENT OF TRANSPORTATION
BRIDGE DESIGN DIVISION
08/31/2017
DATE
JASON D. GIEBLER
OKLA. REG. NO. 24272
Signing for Monotube Sheets: M1-M7

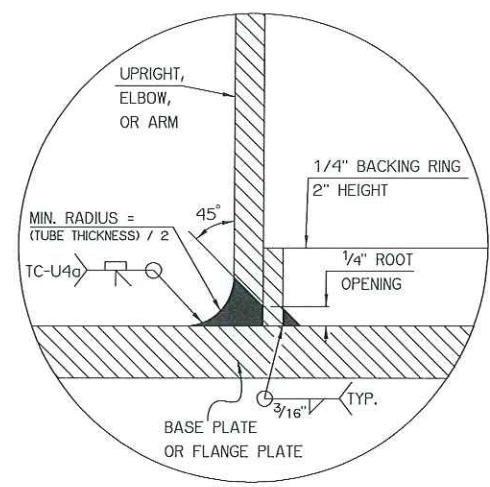


MONOTUBE STRUCTURE (TYPE 'B' & TYPE 'C')	Design	JG	JW
	Detail	JG	JW
	Check	JG	JW
	Squad	SUPERVISOR	
	Engr.	ENGINEER	
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION	
JOB PRICE NO. 30444(06)		SHEET NO. M1	

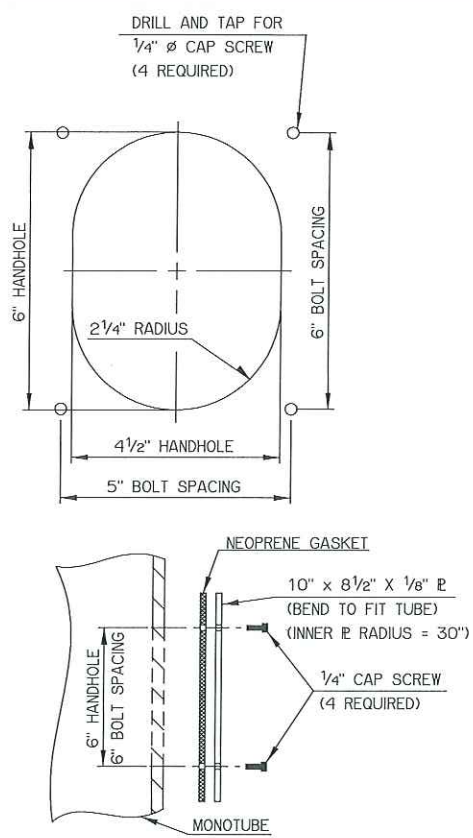
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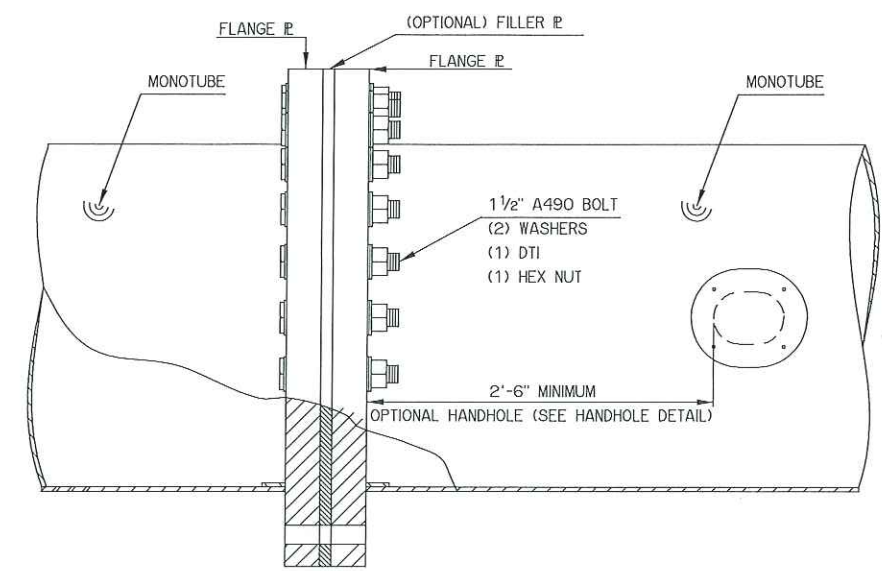
TUBE-TO-TRANSVERSE-PLATE DETAIL (TYPICAL)
(DETAIL TYPICAL FOR BASE AND FLANGE PLATES)



DETAIL 'A'



HANDHOLE DETAIL (OPTIONAL)

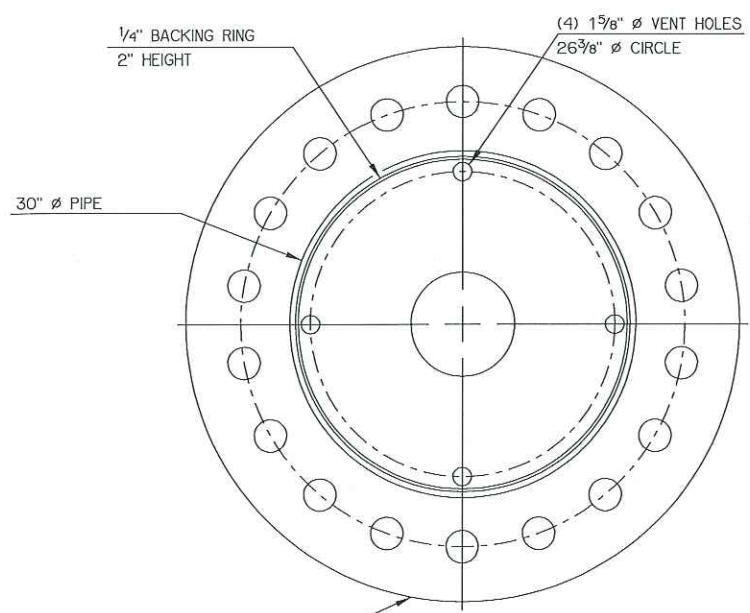


TYPICAL FLANGE CONNECTION DETAIL

NOTE: OPTIONAL HANDHOLES FOR TYPE 'B' STRUCTURES SHOULD BE POSITIONED ON THE ROADWAY FACE OF THE TUBE.

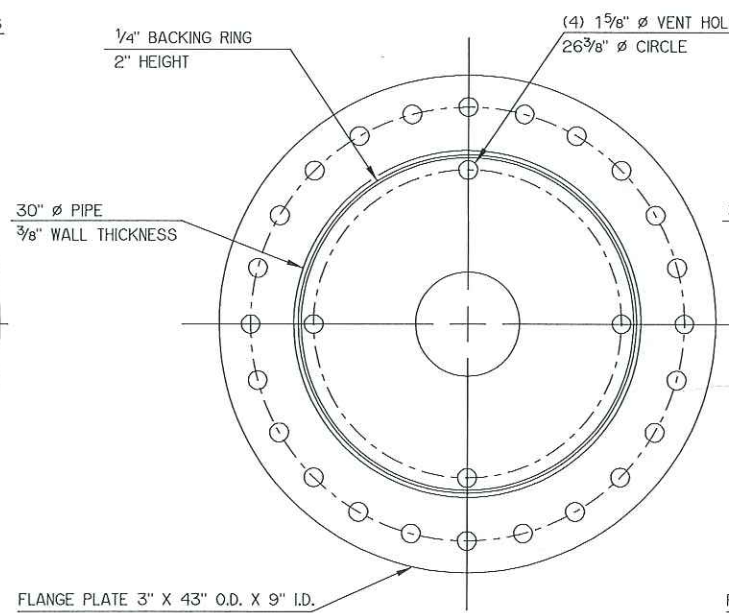
OPTIONAL FILLER PLATE NOTE:

DURING ASSEMBLY OF THE FLANGE CONNECTIONS, THE TWO ADJOINING MEMBERS SHALL NOT BE PULLED TOGETHER AND TIGHTENED IF A GAP OF OVER 1/8" EXISTS. IF A GAP EXCEEDING THIS TOLERANCE IS ENCOUNTERED, THE CONTRACTOR IS PERMITTED TO USE A FILLER PLATE AT A HORIZONTAL MEMBER FLANGE CONNECTION. THE MAXIMUM THICKNESS OF A FILLER PLATE AT ANY SINGLE FLANGE CONNECTION IS 1". IF MORE THAN 1", BUT LESS THAN OR EQUAL TO 6", IS REQUIRED FOR ASSEMBLY THE REQUIRED DIMENSION SHALL BE SEPERATED INTO TWO DIFFERENT FLANGE CONNCTIONS AND THE TWO FLANGE CONNECTIONS SHALL BE LOCATED SYMMETRICALLY ALONG THE TYPE B MONOTUBE STRUCTURE. ADDITION OF FILLER PLATES SHALL BE AT THE COST OF THE CONTRACTOR.



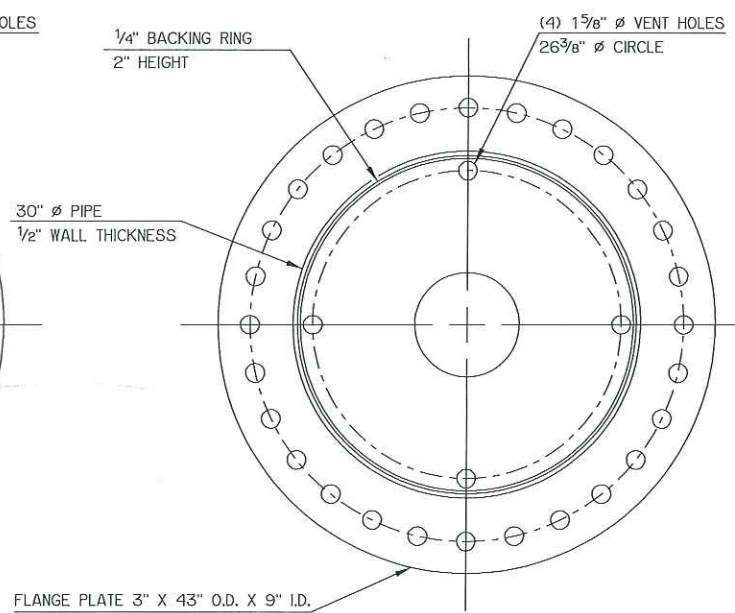
BASE PLATE 4" X 48" O.D. X 9" I.D.
(18) 2 13/16" Ø BOLT HOLES
BOLT CIRCLE 38 1/2" Ø
2 1/2" F1554 GR.55 ANCHOR BOLTS

BASE PLATE



FLANGE PLATE 3" X 43" O.D. X 9" I.D.
(24) 1 3/8" Ø BOLT HOLES
BOLT CIRCLE 37 1/2" Ø
1 1/2" A490 BOLTS

FLANGE PLATE 'A'



FLANGE PLATE 3" X 43" O.D. X 9" I.D.
(28) 1 3/8" Ø BOLT HOLES
BOLT CIRCLE 37 1/2" Ø
1 1/2" A490 BOLTS

FLANGE PLATE 'B'

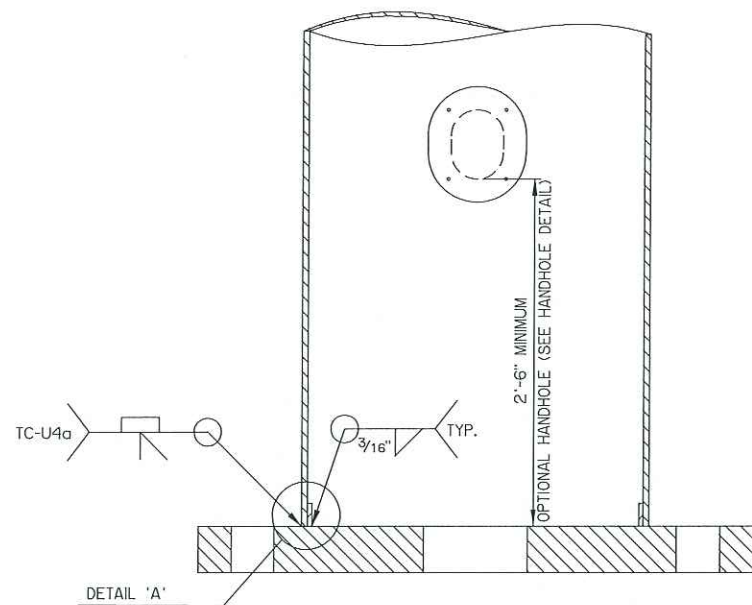
MONOTUBE SCHEDULE				
SPAN	TUBE DIAMETER (ALL TUBES)	TUBE THICKNESS (ALL TUBES)	BASE B	FLANGE B
70FT - 90FT	30"	3/8"	TYPICAL	A
95FT - 150FT	30"	1/2"	TYPICAL	B

MONOTUBE STRUCTURE (TYPE 'B' DETAIL)

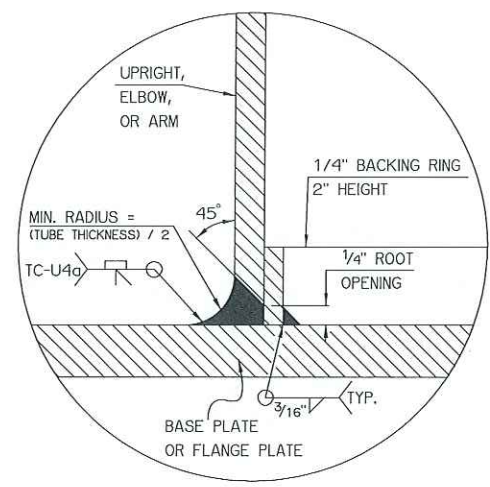
Design	JG	JW
Detail	JG	JW
Check	JG	JW
Squad	SUPERVISOR	
Eng.	ENGINEER	

STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION
JOB PIECE NO. 30444(06) SHEET NO. M2

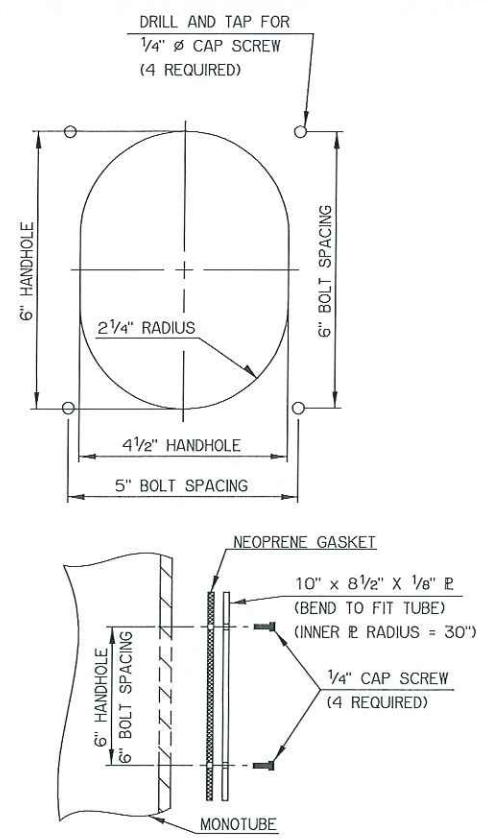
REV. NO.	DESCRIPTION	REVISIONS	DATE



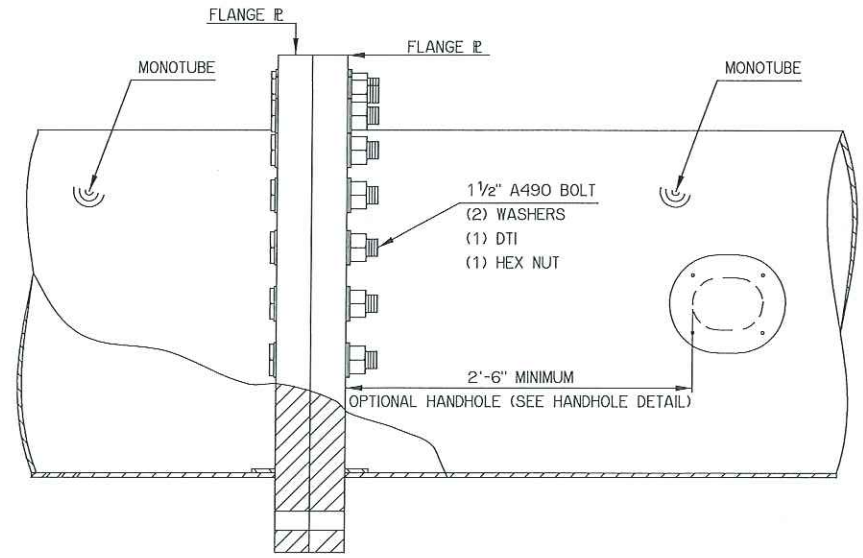
TUBE-TO-TRANSVERSE-PLATE DETAIL (TYPICAL)
(DETAIL TYPICAL FOR BASE AND FLANGE PLATES)



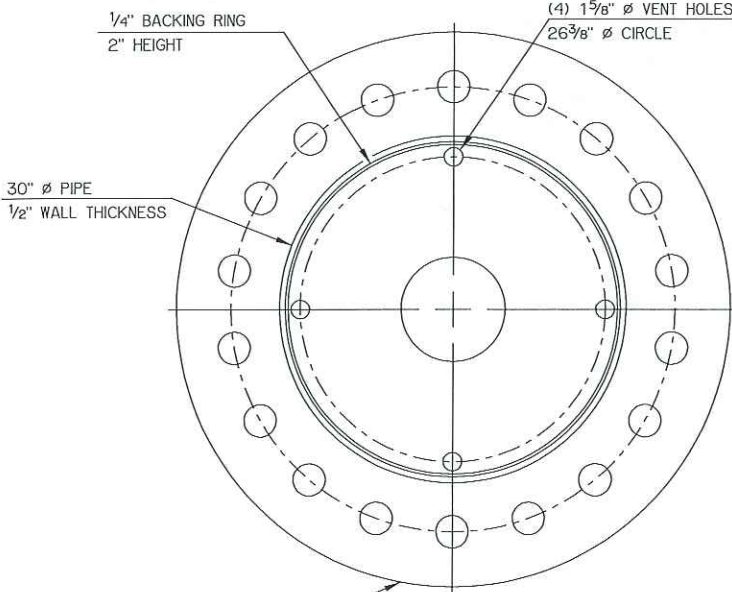
DETAIL 'A'



HANDHOLE DETAIL
(OPTIONAL)

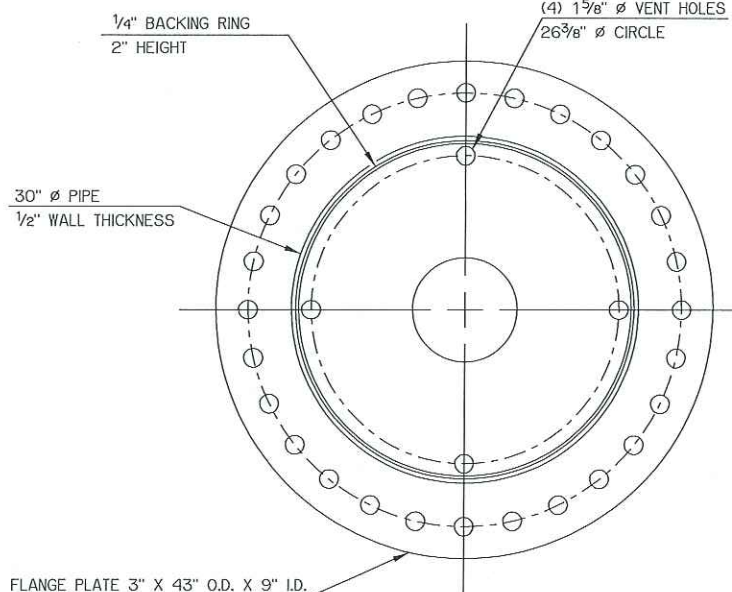


TYPICAL FLANGE CONNECTION DETAIL
NOTE: OPTIONAL HANDHOLES FOR TYPE 'C' STRUCTURES SHOULD BE POSITIONED ON THE DOWN TRAFFIC FACE OF THE TUBE.



BASE PLATE 4" X 48" O.D. X 9" I.D.
(18) 2 13/16" Ø BOLT HOLES
BOLT CIRCLE 38 1/2" Ø
2 1/2" F1554 GR.55 ANCHOR BOLTS

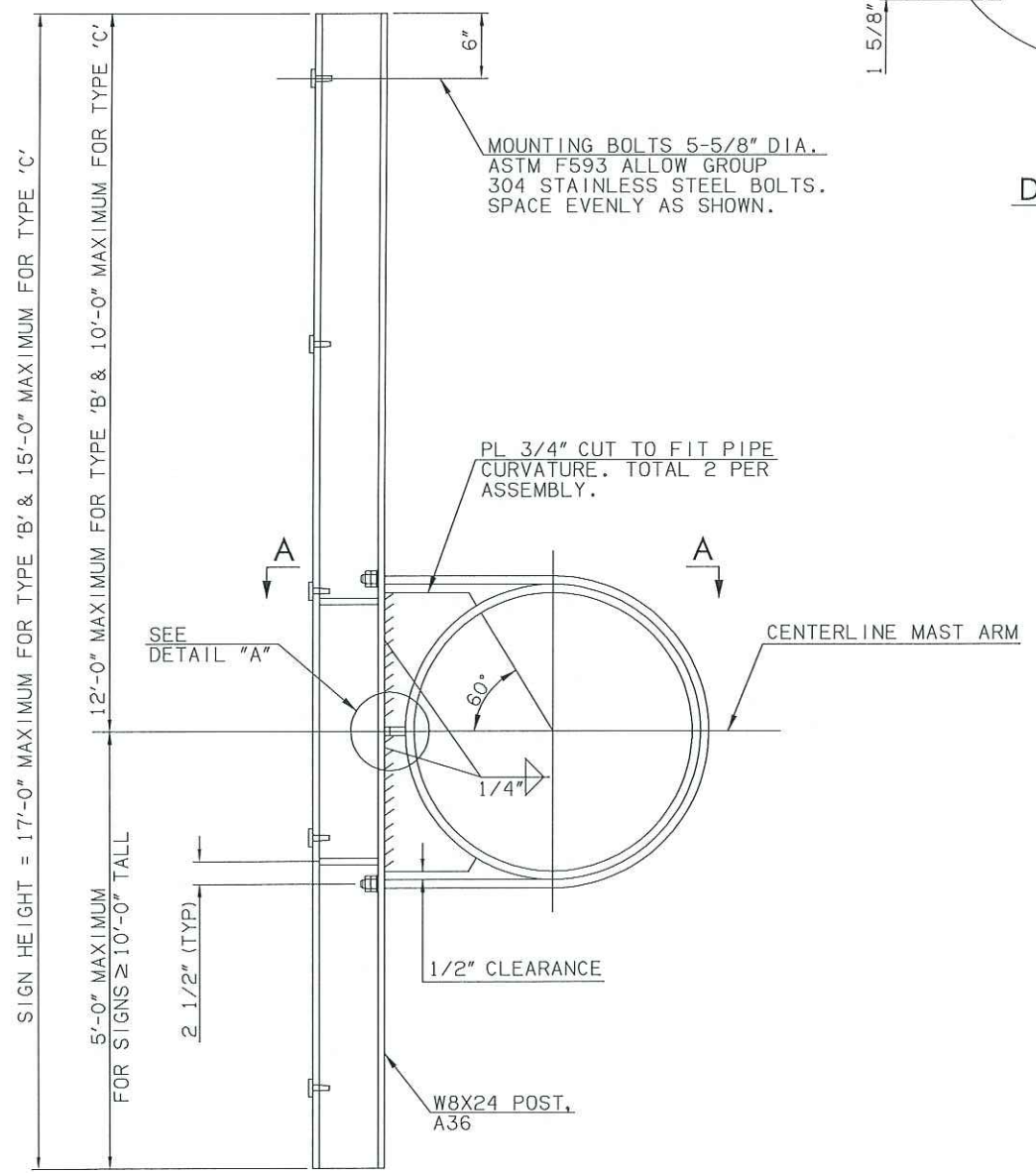
BASE PLATE



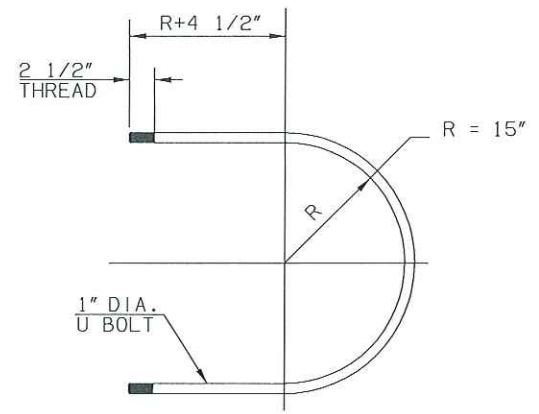
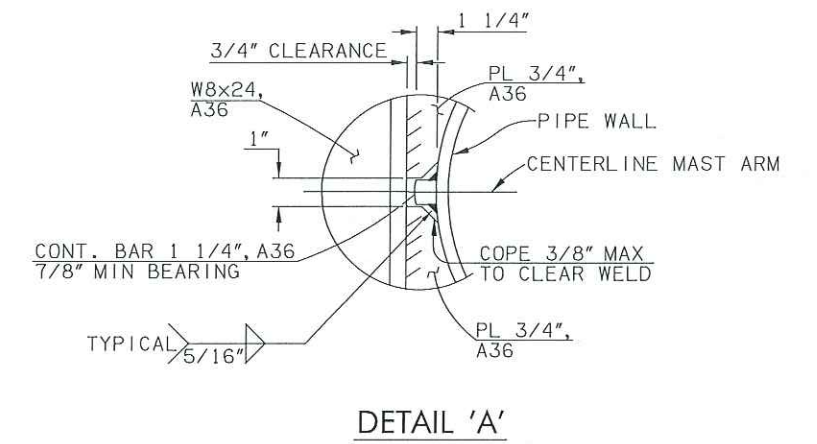
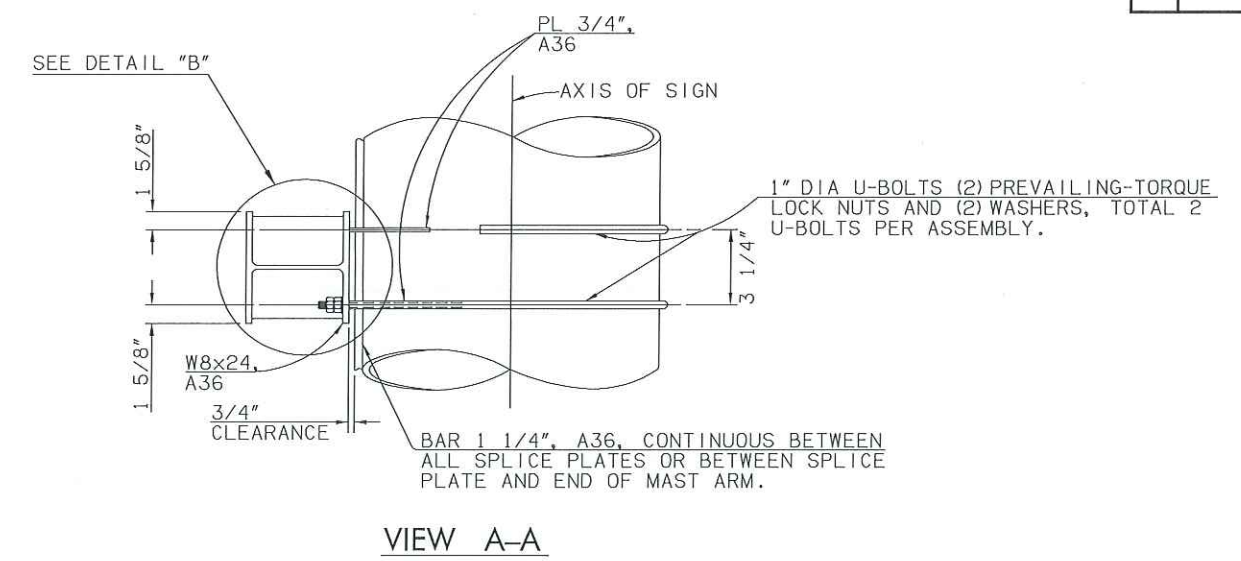
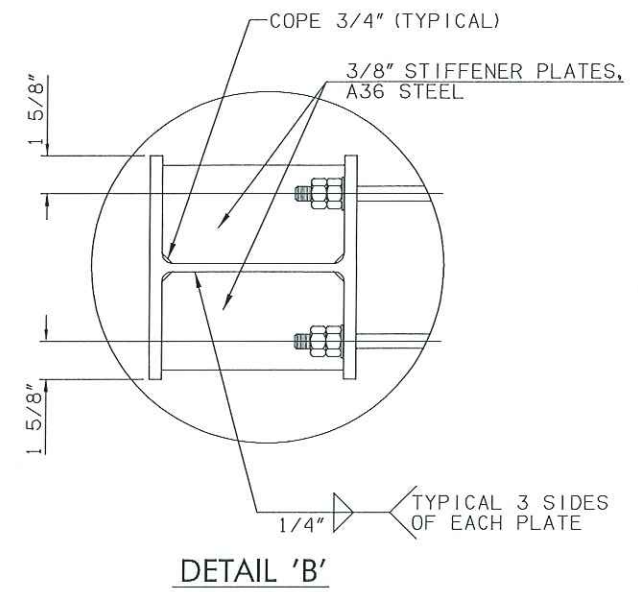
FLANGE PLATE 3" X 43" O.D. X 9" I.D.
(28) 1 5/8" Ø BOLT HOLES
BOLT CIRCLE 37 1/2" Ø
1 1/2" A490 BOLTS

FLANGE PLATE

MONOTUBE STRUCTURE (TYPE 'C' DETAILS)		Design	JG	JW
		Detail	JG	JW
		Check	JG	JW
		Squad Eng.	SUPERVISOR	ENGINEER
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION		JOB PIECE NO. 30444(06)
				SHEET NO. M3



SIGN MOUNTING BRACKET



U BOLT DETAIL

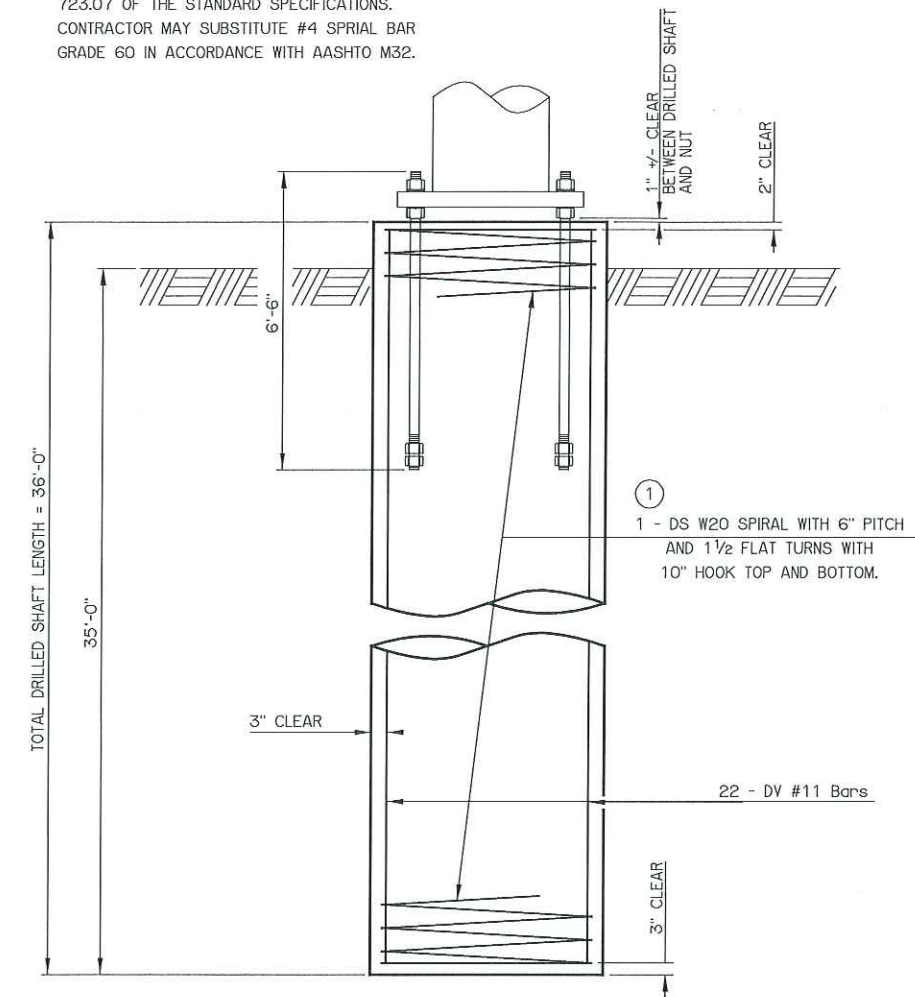
GENERAL NOTES

- ALL U-BOLTS SHALL CONFORM TO THE MATERIAL SPECIFICATIONS OF ASTM A193-B7, AND THREADS SHALL CONFORM TO ASTM A325 SECTION 7.2. ALL U-BOLT NUTS SHALL BE PREVAILING-TORQUE LOCK NUTS AND SHALL CONFORM TO THE SPECIFICATION OF ASTM A194-2H. ALL WASHERS SHALL CONFORM TO THE SPECIFICATIONS OF ASTM F436.

MONOTUBE STRUCTURE (OVERHEAD SIGN BRACKET DETAIL)			
Design	JG	JW	
Detail	JG	JW	
Check	JG	JW	
Supv.	SUPERVISOR		
Engr.	ENGINEER		
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION	
JOB PRICE NO. 30444(06)		SHEET NO. M4	

REV. NO.	DESCRIPTION	REVISIONS	DATE

① USE W20 SPIRAL IN ACCORDANCE WITH 723.07 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY SUBSTITUTE #4 SPIRAL BAR GRADE 60 IN ACCORDANCE WITH AASHTO M32.



DRILLED SHAFT NOTES:

MATERIAL PROPERTIES
 CLASS 'AA' CONCRETE = 4,000 PSI
 REINFORCING STEEL = 60,000 PSI

THE DRILLED SHAFT FOR THE MONOTUBE SIGN STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING PROPERTIES:

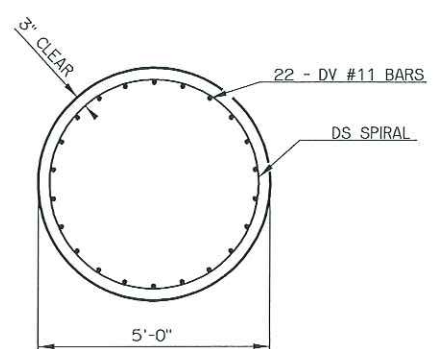
- COHESIVE SOIL
 UNIT WEIGHT = 120 PCF
 COHESION = 1000 PSF
- GRANULAR SOIL
 UNIT WEIGHT = 120 PCF
 INTERNAL FRICTION ANGLE = 28 DEGREES

IF SITE CONDITIONS ARE ENCOUNTERED THAT DIFFER FROM THOSE SPECIFIED ABOVE, THE ENGINEER SHALL BE CONTACTED. SUCH CONDITIONS ARE, BUT NOT LIMITED TO, AS FOLLOWS:

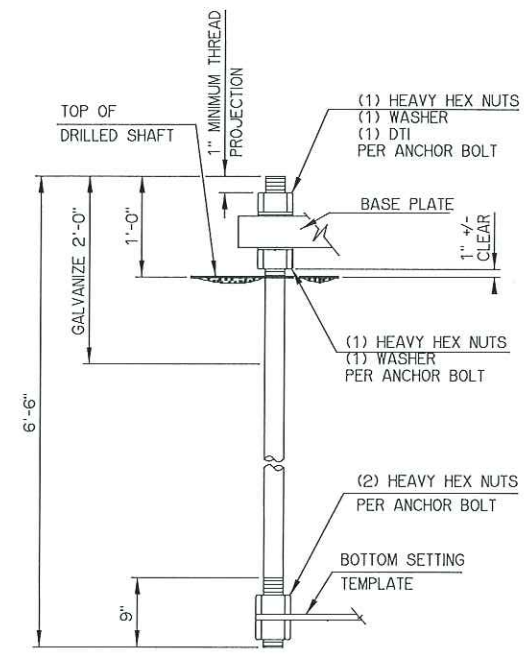
- SOIL HAS HIGH ORGANIC CONTENT OR CONSISTS OF SATURATED SILT AND CLAY.
- THE SITE WON'T SUPPORT THE WEIGHT OF THE DRILLING RIG.
- ROCK IS ENCOUNTERED.

DRILLED SHAFTS SHALL BE CONSTRUCTED ACCORDING TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND ASSOCIATED SPECIAL PROVISIONS. THE USE OF THE "DOUBLE CASING METHOD" IS NOT ALLOWED FOR THIS DESIGN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THAT THE LOCATION AND ELEVATION OF THE DRILLED SHAFT ARE AS REQUIRED IN THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE MONOTUBE SUPPLIER TO ENSURE THAT THE ORIENTATION OF THE ANCHOR BOLTS IN THE DRILLED SHAFT ALLOW FOR PROPER ALIGNMENT OF ALL BASE PLATES AND FLANGES UPON FINAL INSTALLATION.



TYPICAL SECTION THRU 60" DRILLED SHAFT



2 1/2" Ø ANCHOR BOLT DETAIL (F1554 GR. 55)

NOTE: FOR ADDITIONAL DRILLED SHAFT DETAILS, SEE "MONOTUBE STRUCTURE (DRILLED SHAFT DETAILS) (SHEET 3 OF 3)". FOR DRILLED SHAFT DETAILS IN THE MEDIAN, SEE "MONOTUBE STRUCTURE (DRILLED SHAFT DETAILS) (SHEET 2 OF 3)".

DRILLED SHAFT BAR LIST (INCLUDED IN CONTRACT UNIT PRICE OF DRILLED SHAFT)				
MARK	SIZE	NO.	FORM	LENGTH
PLAIN REINFORCING BARS				
DS	W20	1	BNT	1,052'-9"
DV	#11	22	STR	35'-7"

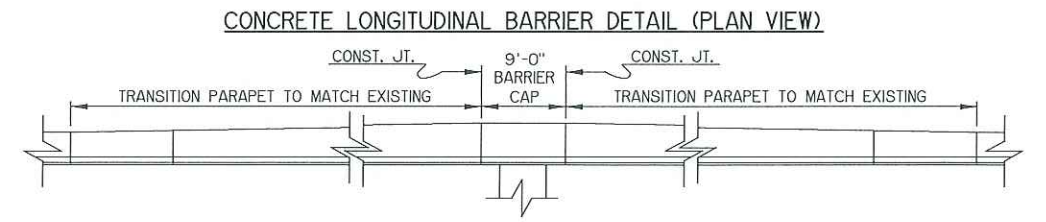
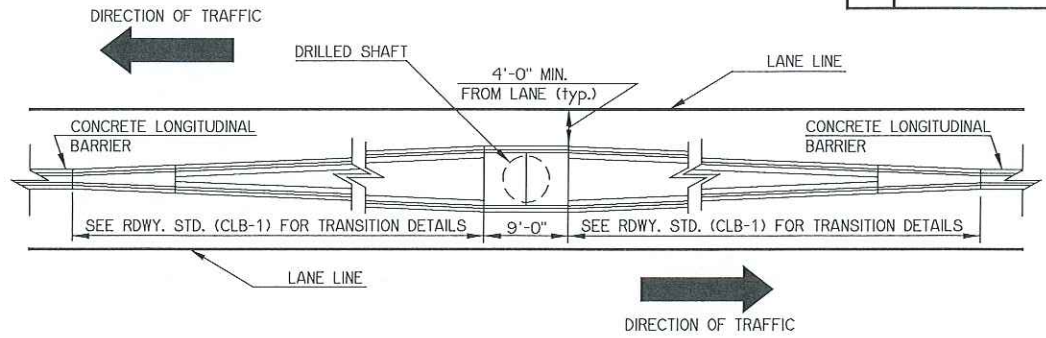
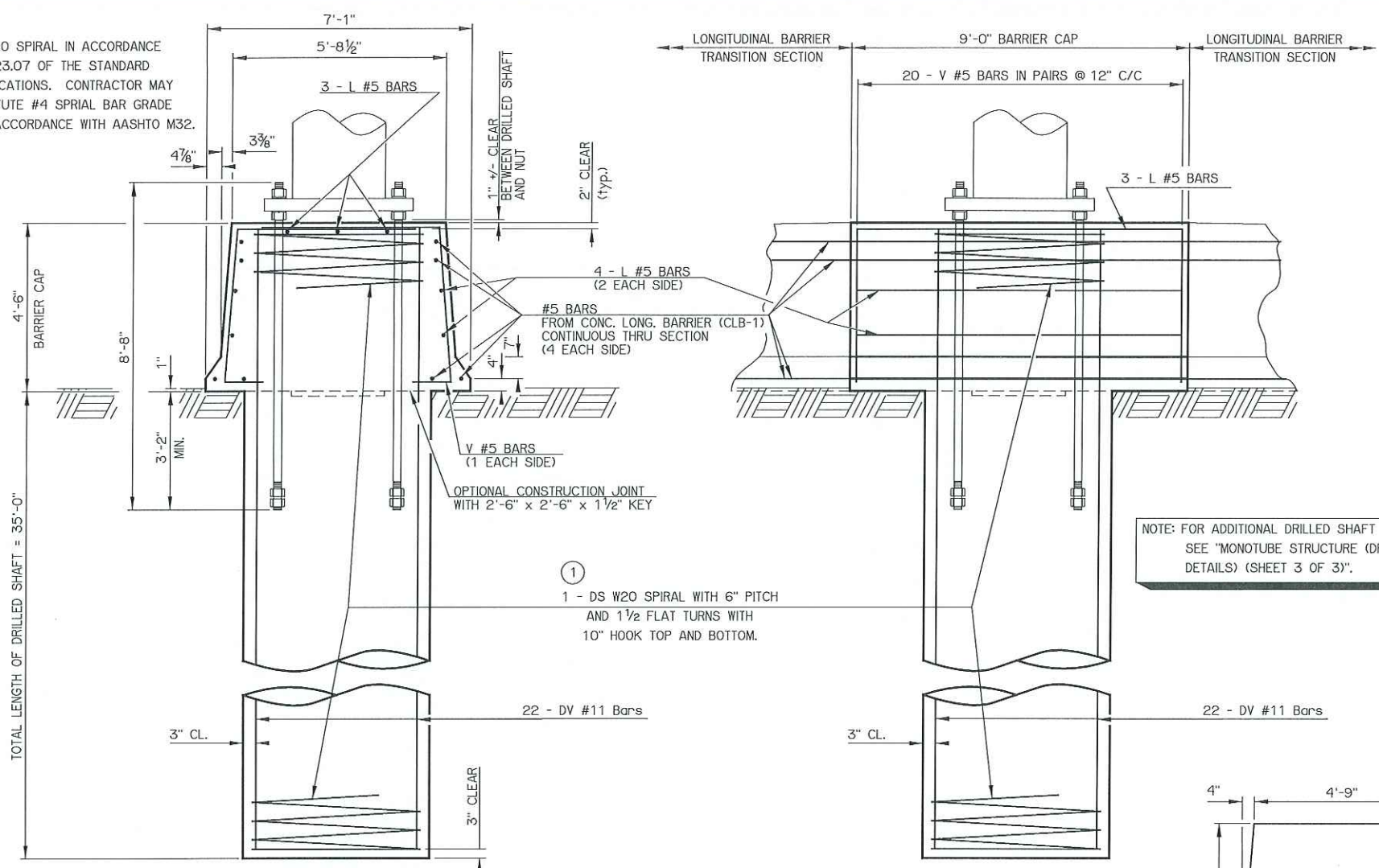
BASIS OF PAYMENT		
ITEM NO.	DESCRIPTION	UNIT
② 516(A)	DRILLED SHAFTS 60" DIAMETER	L.F.

② ALL COSTS OF CONCRETE AND REINFORCING IN DRILLED SHAFTS SHALL BE INCLUDED IN THE PRICE BID FOR "DRILLED SHAFTS 60" DIAMETER".

MONOTUBE STRUCTURE (DRILLED SHAFT DETAILS) (SHEET 1 OF 3)		Design JG JW
		Detail JG JW
		Check JG JW
		Spot SUPERVISOR
		Eng. ENGINEER
STATE OF OKLAHOMA	DEPARTMENT OF TRANSPORTATION JOB PECE NO. 30444(06)	SHEET NO. MS

REV. NO.	DESCRIPTION	REVISIONS	DATE

① USE W20 SPIRAL IN ACCORDANCE WITH 723.07 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY SUBSTITUTE #4 SPIRAL BAR GRADE 60 IN ACCORDANCE WITH AASHTO M32.



NOTE: FOR ADDITIONAL DRILLED SHAFT DETAILS, SEE "MONOTUBE STRUCTURE (DRILLED SHAFT DETAILS) (SHEET 3 OF 3)".

NOTE: CONCRETE LONGITUDINAL BARRIER SHALL BE CONSTRUCTED IN ACCORDANCE WITH ROADWAY STANDARD CLB-1 EXCEPT FOR AS SHOWN HERE.

DRILLED SHAFT NOTES:

MATERIAL PROPERTIES
 CLASS 'AA' CONCRETE = 4,000 PSI
 REINFORCING STEEL = 60,000 PSI

THE DRILLED SHAFT FOR THE MONOTUBE SIGN STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING PROPERTIES:

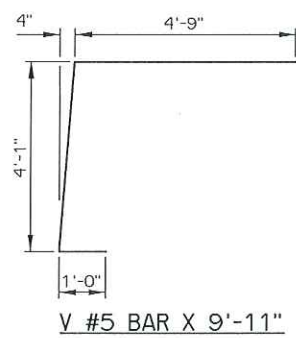
- COHESIVE SOIL
 UNIT WEIGHT = 120 PCF
 COHESION = 1000 PSF
- GRANULAR SOIL
 UNIT WEIGHT = 120 PCF
 INTERNAL FRICTION ANGLE = 28 DEGREES

IF SITE CONDITIONS ARE ENCOUNTERED THAT DIFFER FROM THOSE SPECIFIED ABOVE, THE ENGINEER SHALL BE CONTACTED. SUCH CONDITIONS ARE, BUT NOT LIMITED TO, AS FOLLOWS:

- SOIL HAS HIGH ORGANIC CONTENT OR CONSISTS OF SATURATED SILT AND CLAY.
- THE SITE WON'T SUPPORT THE WEIGHT OF THE DRILLING RIG.
- ROCK IS ENCOUNTERED.

DRILLED SHAFTS SHALL BE CONSTRUCTED ACCORDING TO THE OKLAHOMA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND ASSOCIATED SPECIAL PROVISIONS. THE USE OF THE "DOUBLE CASING METHOD" IS NOT ALLOWED FOR THIS DESIGN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THAT THE LOCATION AND ELEVATION OF THE DRILLED SHAFT ARE AS REQUIRED IN THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE MONOTUBE SUPPLIER TO ENSURE THAT THE ORIENTATION OF THE ANCHOR BOLTS IN THE DRILLED SHAFT ALLOW FOR PROPER ALIGNMENT OF ALL BASE PLATES AND FLANGES UPON FINAL INSTALLATION.



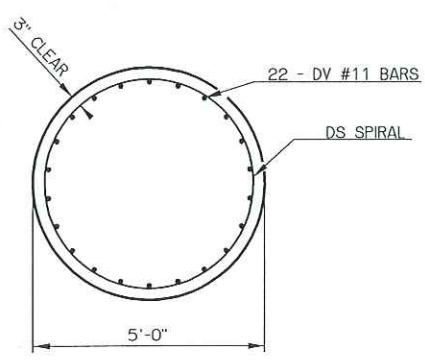
ITEM	UNIT	QTY.
CLASS AA CONCRETE	CY	12.50
REINFORCING STEEL	LB	270.00

MARK	SIZE	NO.	FORM	LENGTH
PLAIN REINFORCING BARS				
L	#5	7	STR	8'-8"
V	#5	20	BNT	9'-11"

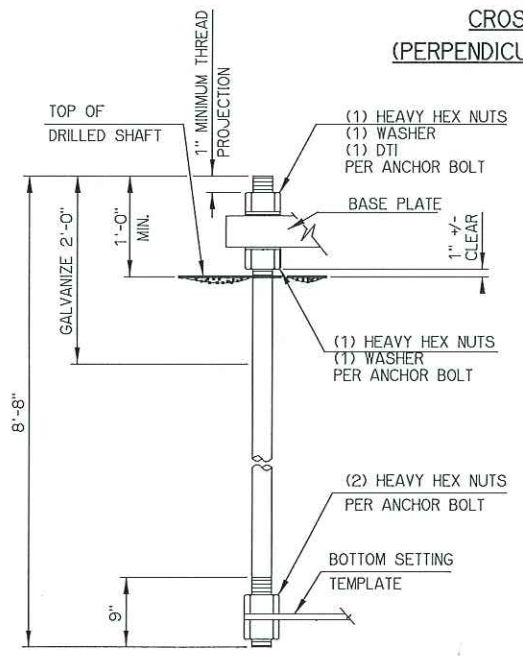
MARK	SIZE	NO.	FORM	LENGTH
PLAIN REINFORCING BARS				
DS	W20	1	BNT	1,156'-6"
DV	#11	22	STR	39'-1"

ITEM NO.	DESCRIPTION	UNIT
②	516(A) DRILLED SHAFTS 60" DIAMETER	L.F.

② ALL COSTS OF CONCRETE AND REINFORCING IN DRILLED SHAFTS SHALL BE INCLUDED IN THE PRICE BID FOR "DRILLED SHAFTS 60" DIAMETER". ALL COSTS OF CONCRETE AND REINFORCING IN THE BARRIER CAP SHALL BE INCLUDED IN THE PRICE BID FOR "DRILLED SHAFTS 60" DIAMETER".



TYPICAL SECTION THRU 60" DRILLED SHAFT



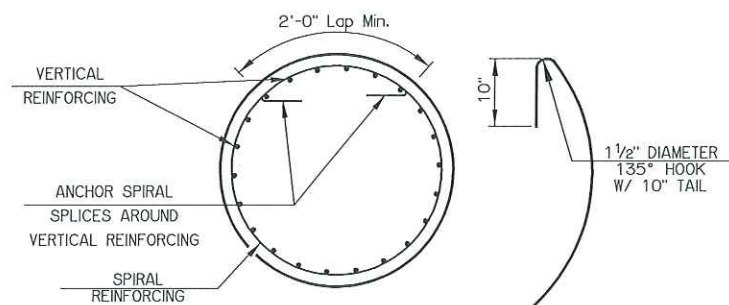
2 1/2" Ø ANCHOR BOLT DETAIL (F1554 GR. 55)

MONOTUBE STRUCTURE (DRILLED SHAFT DETAILS) (SHEET 2 OF 3)

Design	JG	JW
Detail	JG	JW
Check	JG	JW
Squad Eng.	SUPERVISOR ENGINEER	

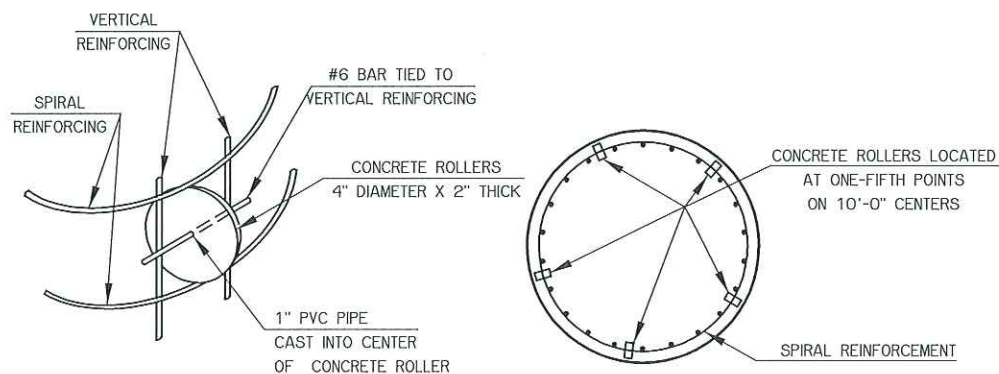
STATE OF OKLAHOMA DEPARTMENT OF TRANSPORTATION
 JOB FILE NO. 30444(06) SHEET NO. MG

REV. NO.	DESCRIPTION	REVISIONS	DATE



SPIRAL REINFORCING SPLICE DETAIL

NOTE: SPIRAL BAR LENGTH QUANTITY DOES NOT INCLUDE LAP. IF LAP IS REQUIRED, THE LENGTH OF THE LAP SHALL BE AS SHOWN.

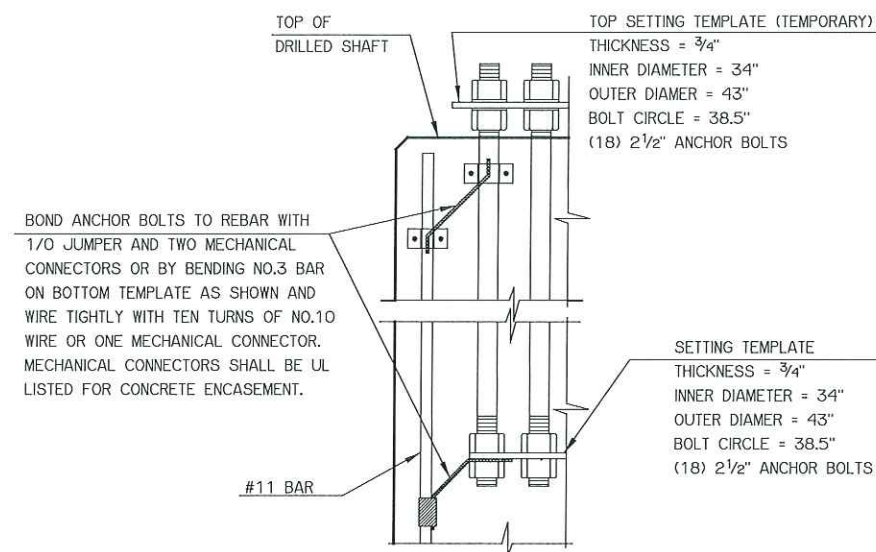


ROLLER INSTALLATION

ROLLER PLACEMENT

DETAIL OF CONCRETE ROLLERS

NOTE: CONCRETE USED IN THE CONCRETE ROLLERS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 P.S.I. SLAB BOLSTERS, HIGH CHAIRS, AND PLASTIC ROLLERS SHALL NOT BE SUBSTITUTED FOR THE CONCRETE ROLLERS.



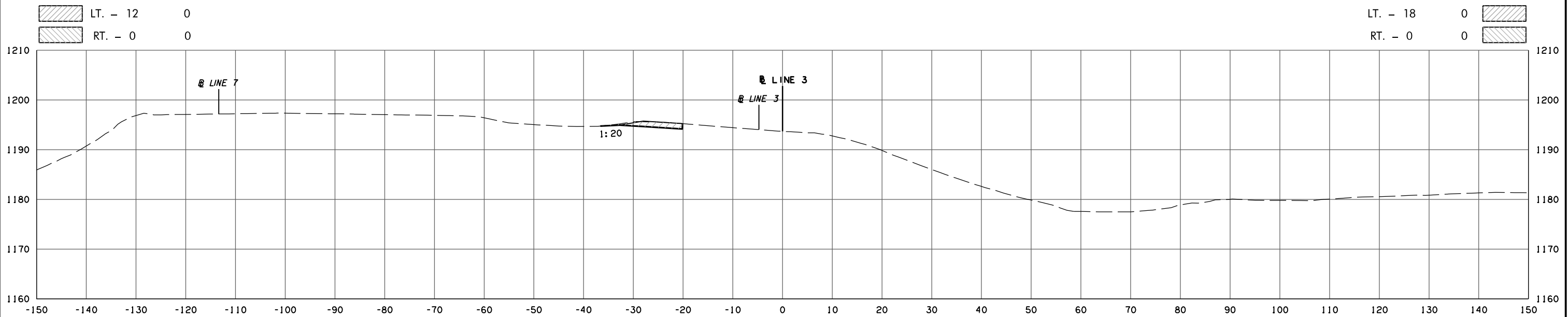
ANCHOR BOLT TEMPLATE AND LIGHTING PROTECTION SYSTEM

MONOTUBE STRUCTURE (DRILLED SHAFT DETAILS) (SHEET 3 OF 3)		Design	JG	JW
		Detail	JG	JW
		Check	JG	JW
		Squad Eng.	SUPERVISOR	ENGINEER
STATE OF OKLAHOMA		DEPARTMENT OF TRANSPORTATION		JOB PIECE NO. 30444(06)
				SHEET NO. M7

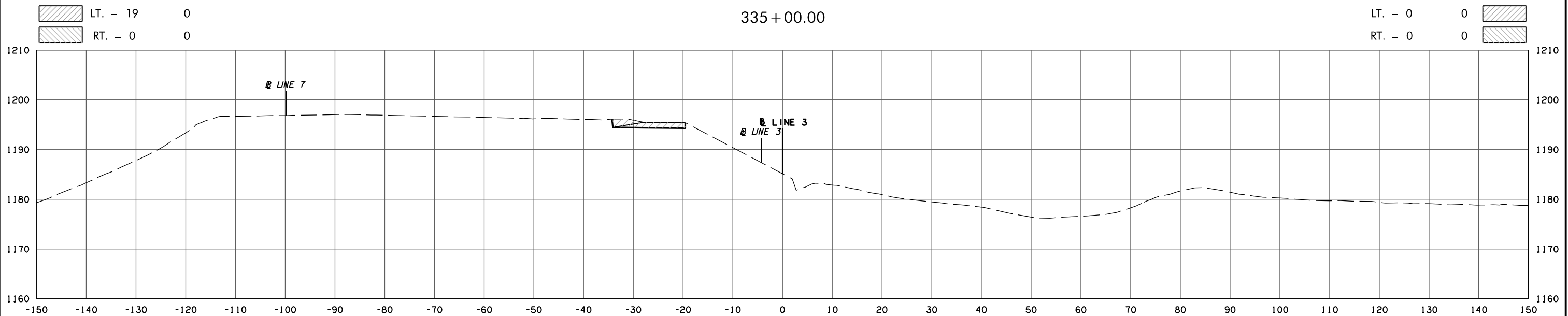
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



335 + 00.00



334 + 69.22

END INCIDENTAL CONST. BEGIN LINE 3

LINE 3

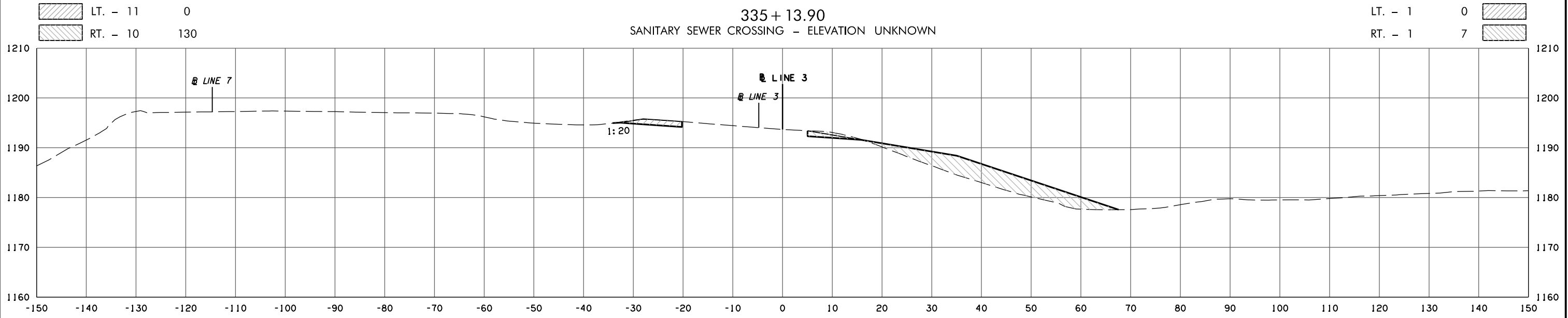
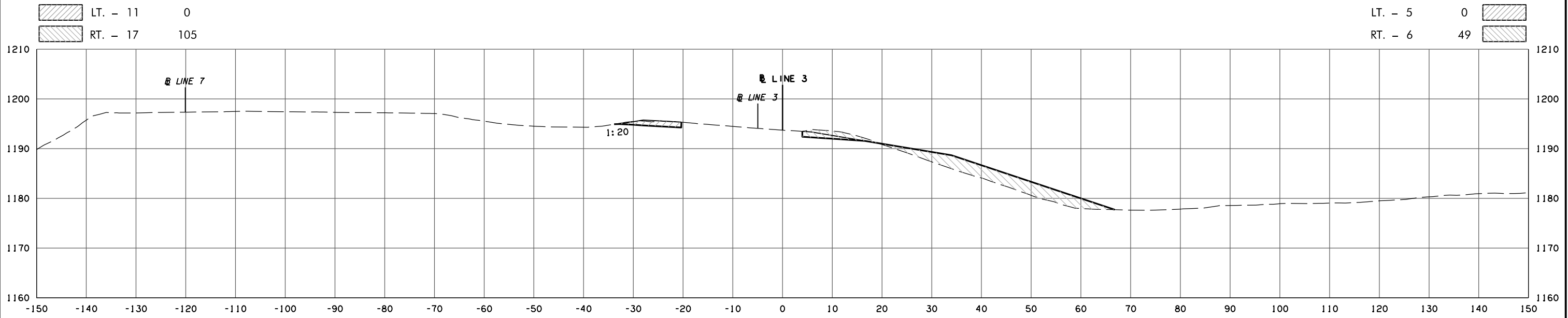
STATE JOB NO.	30444(06)
OKLAHOMA COUNTY	SHEET NO. X1

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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



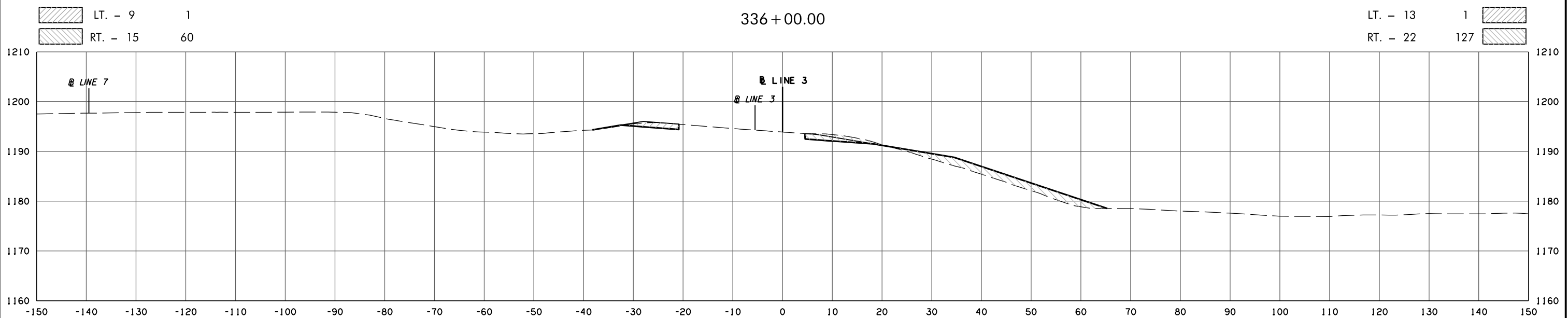
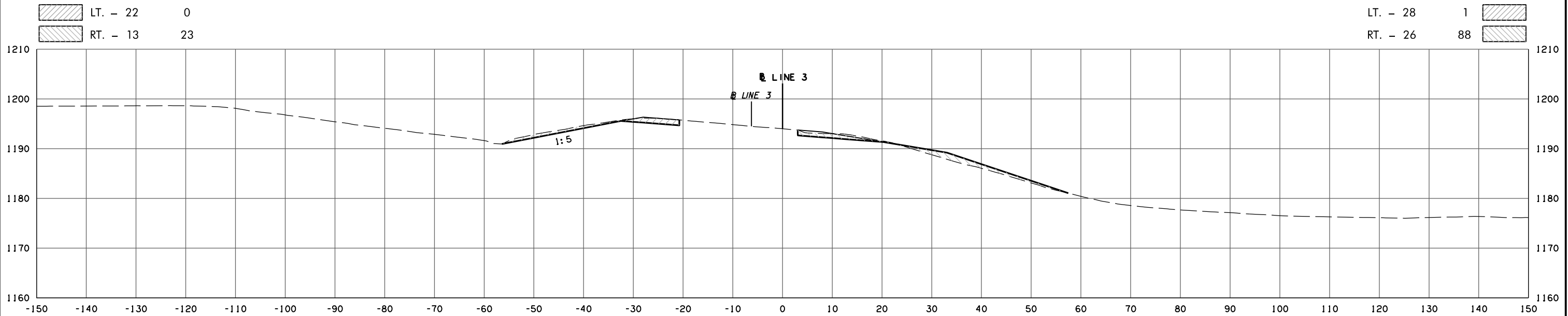
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335 + 02.74

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

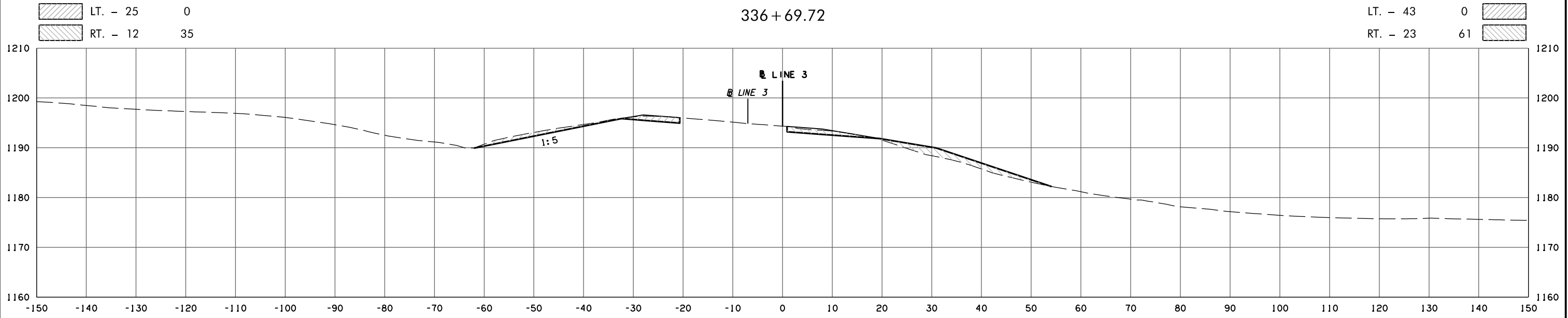
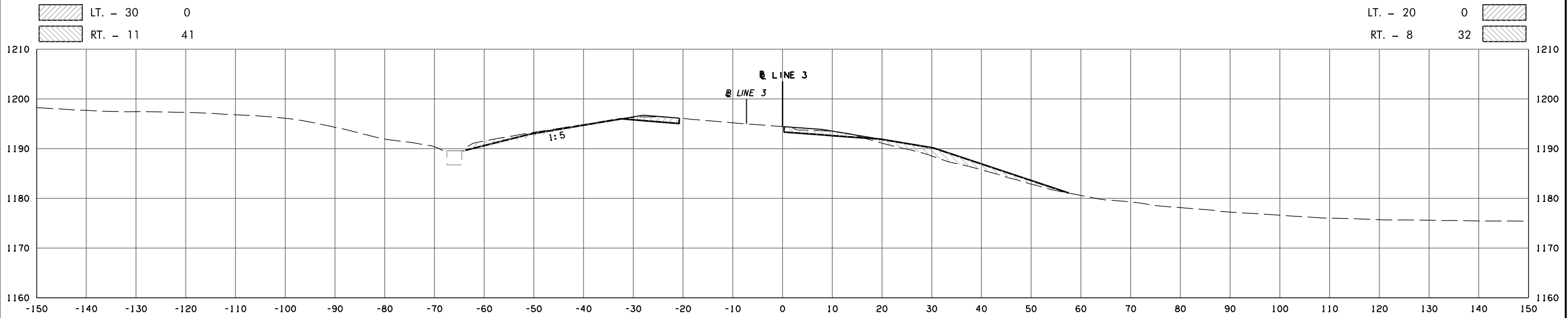


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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

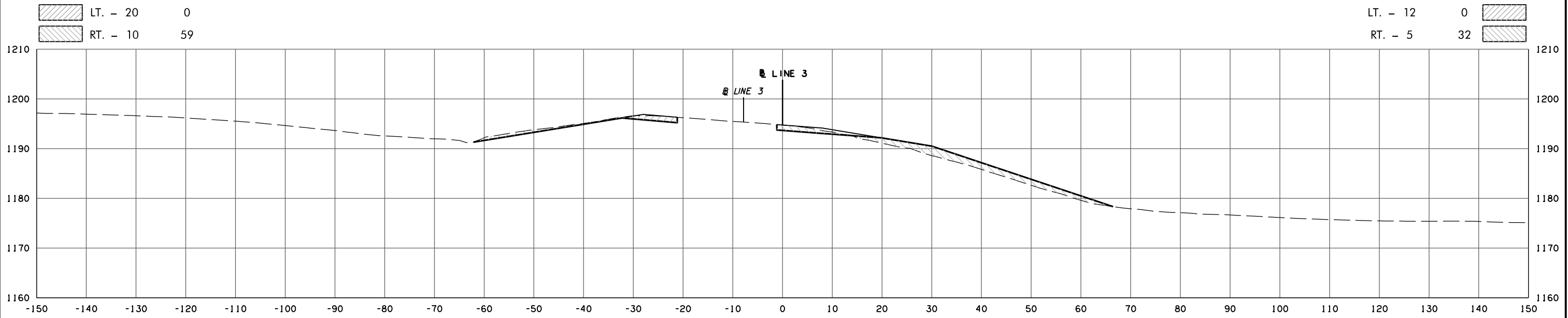


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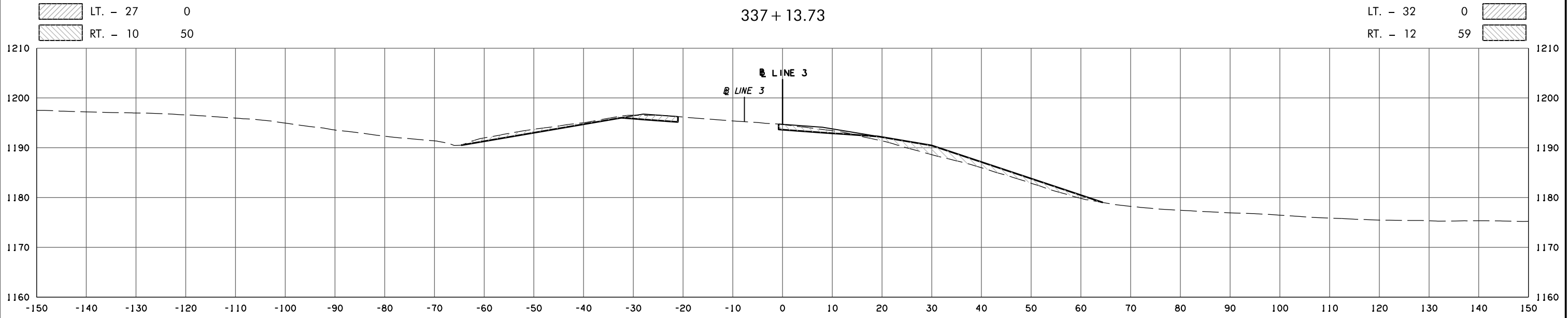
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



337 + 13.73



337 + 00.00

LINE 3

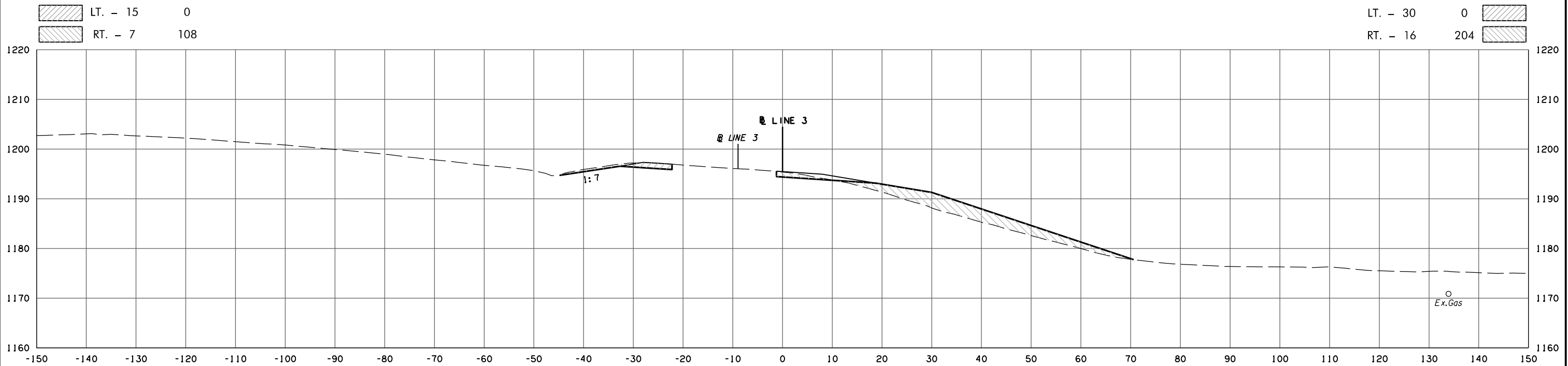
STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X5

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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

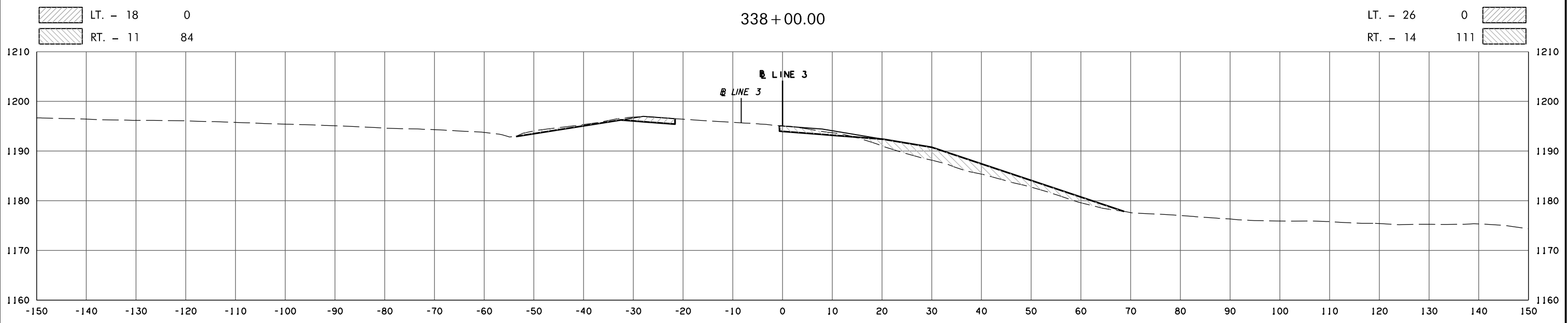
VOLUME
CUT FILL



LT. - 15 0
RT. - 7 108

LT. - 30 0
RT. - 16 204

338 + 00.00



LT. - 18 0
RT. - 11 84

LT. - 26 0
RT. - 14 111

337 + 50.00

9/1/2017 6:43:29 AM H:\PROJECTS\203078_0001_EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

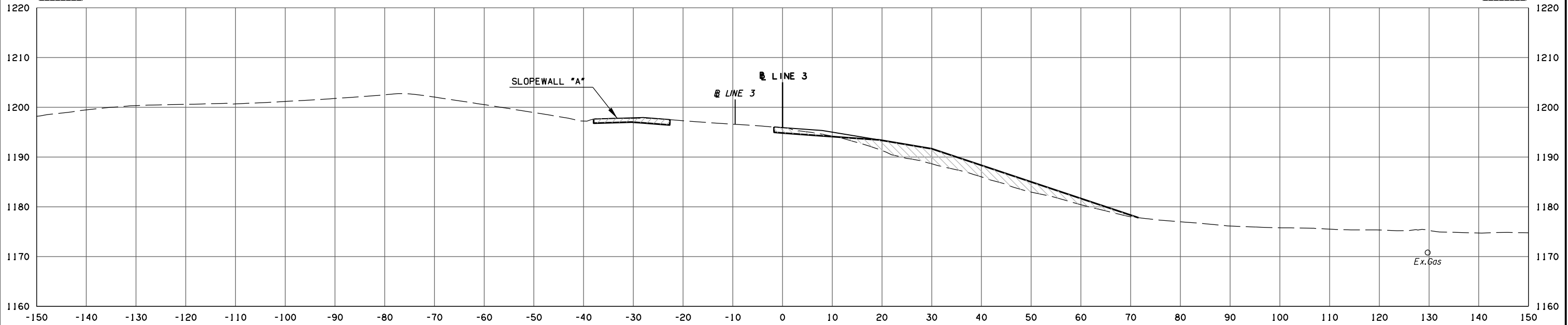
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

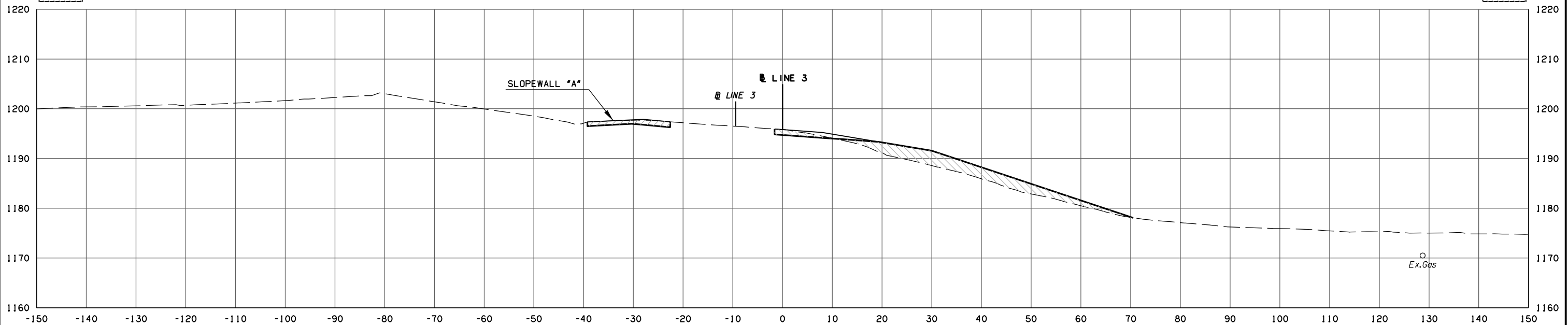
LT. - 14 0
RT. - 8 108

LT. - 5 0
RT. - 3 40



LT. - 15 0
RT. - 8 105

LT. - 22 0
RT. - 12 186



338 + 50.00

338 + 41.12

LINE 3 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X7

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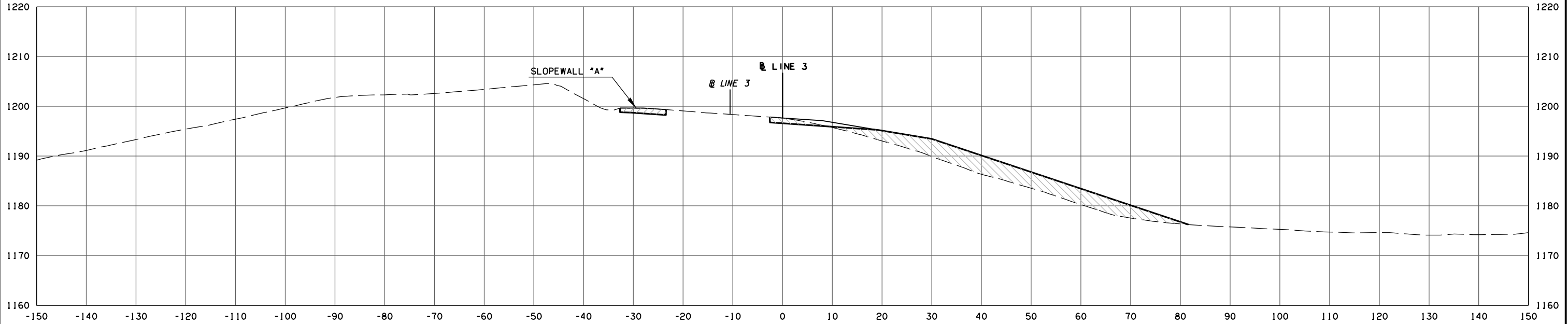
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

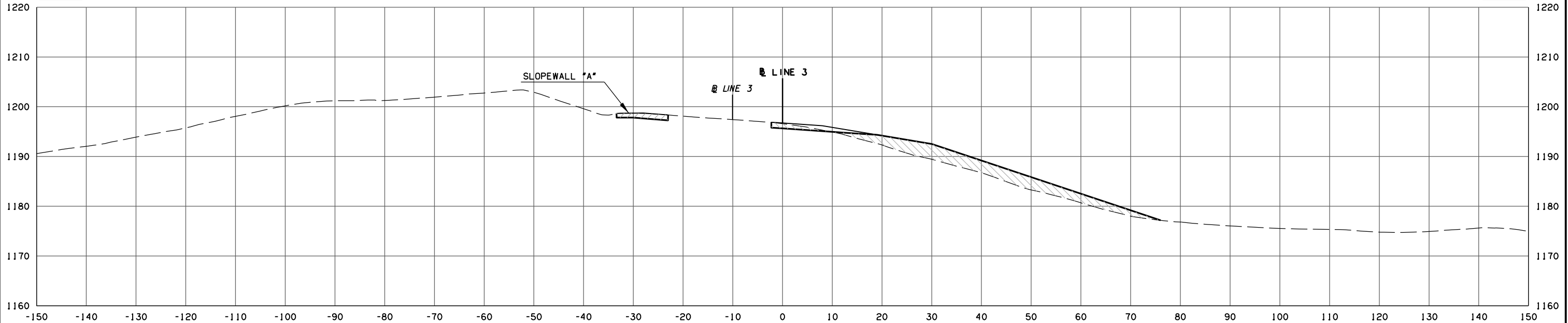
LT. - 9 0
RT. - 8 187

LT. - 18 0
RT. - 15 337



LT. - 10 0
RT. - 7 129

LT. - 22 0
RT. - 14 253



339+50.00

339+00.00

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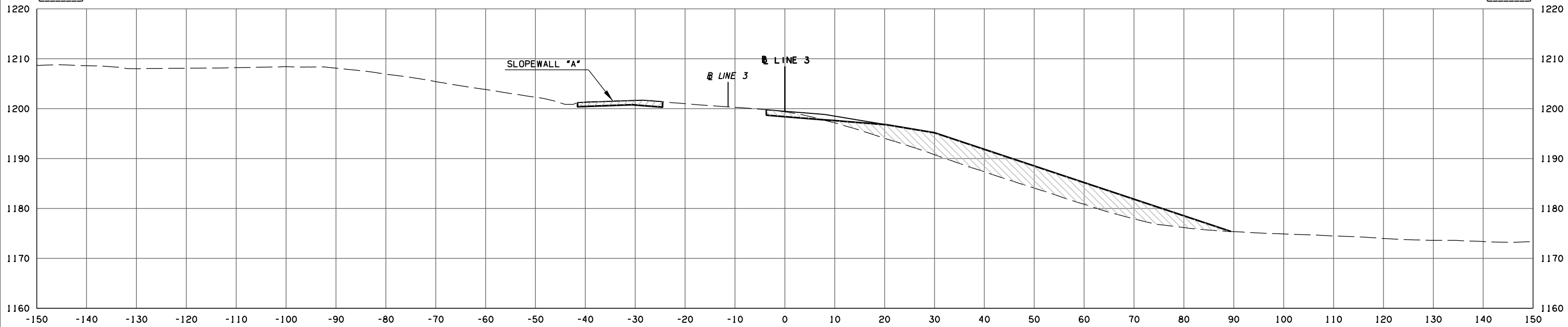
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

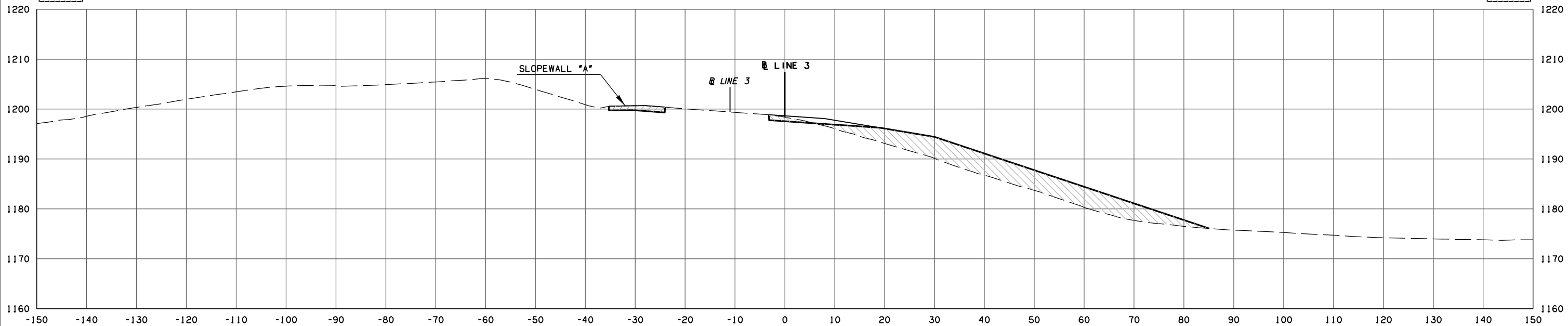
LT. - 16 0
RT. - 8 272

LT. - 24 0
RT. - 12 531



LT. - 11 0
RT. - 6 250

LT. - 19 0
RT. - 13 466



340+47.77

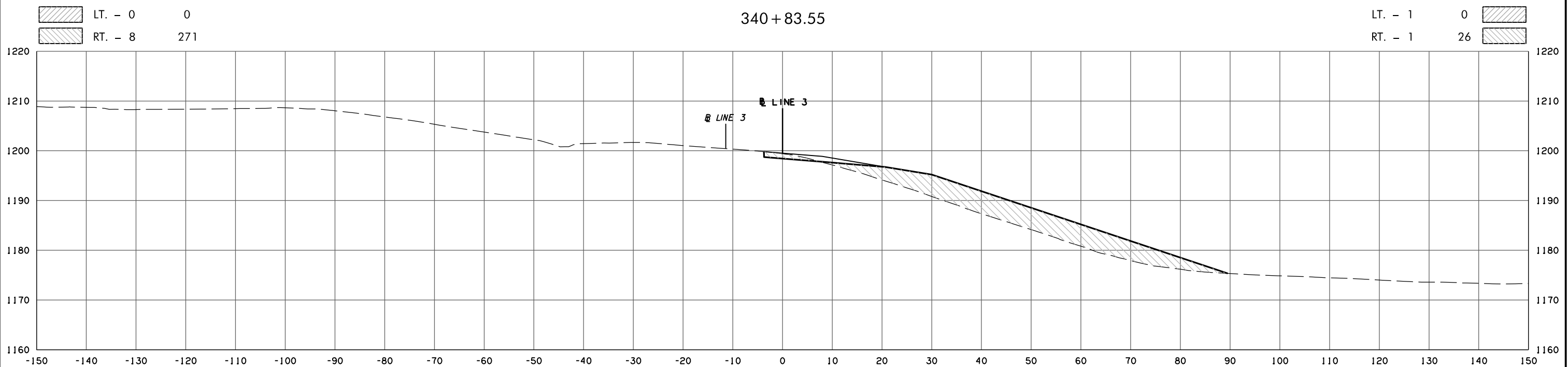
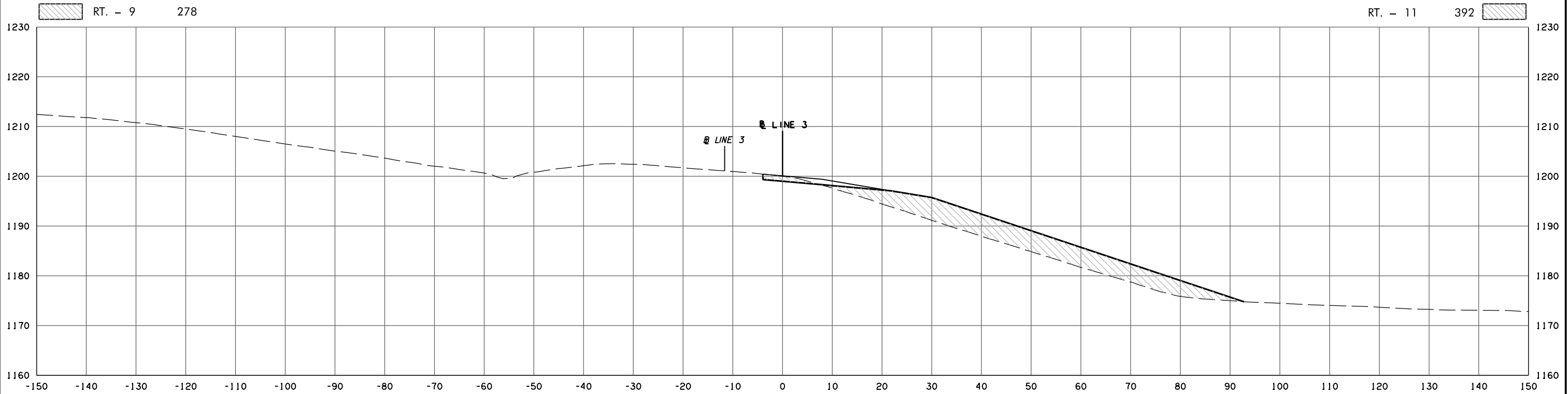
340+00.00

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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

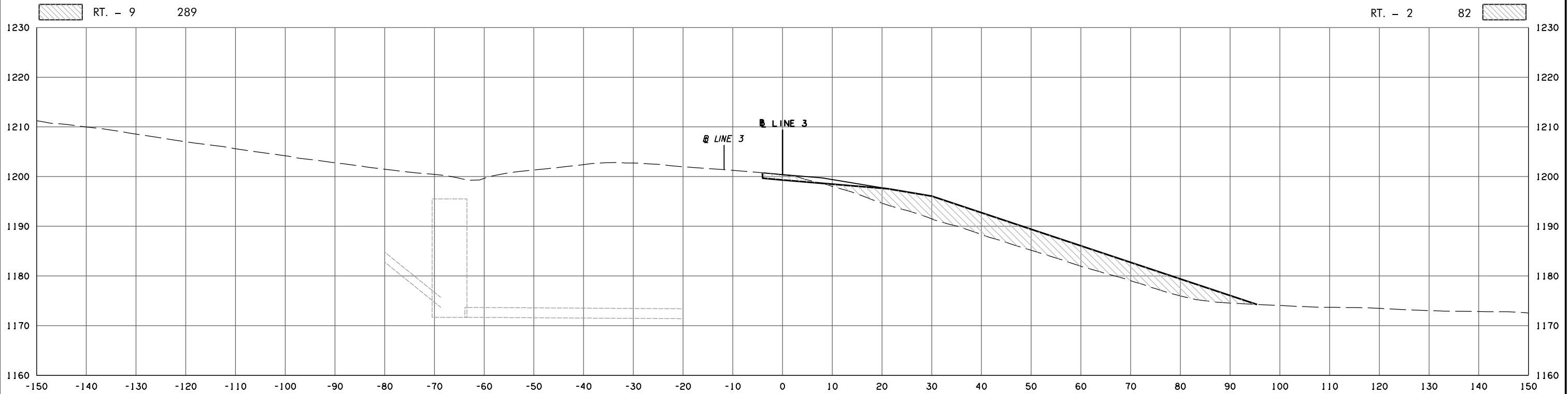


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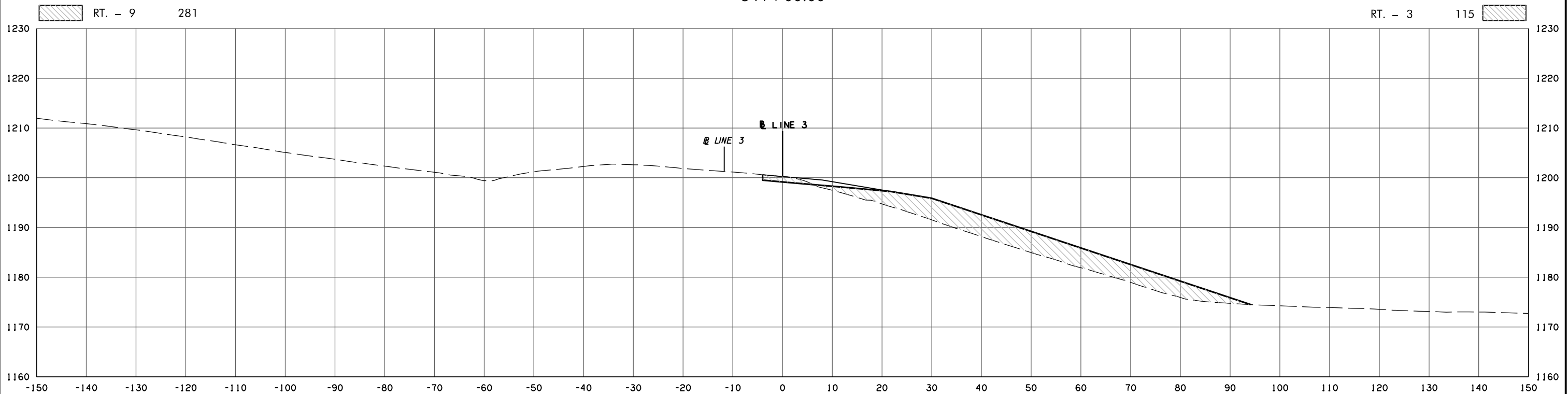
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



341+00.00



340+93.23

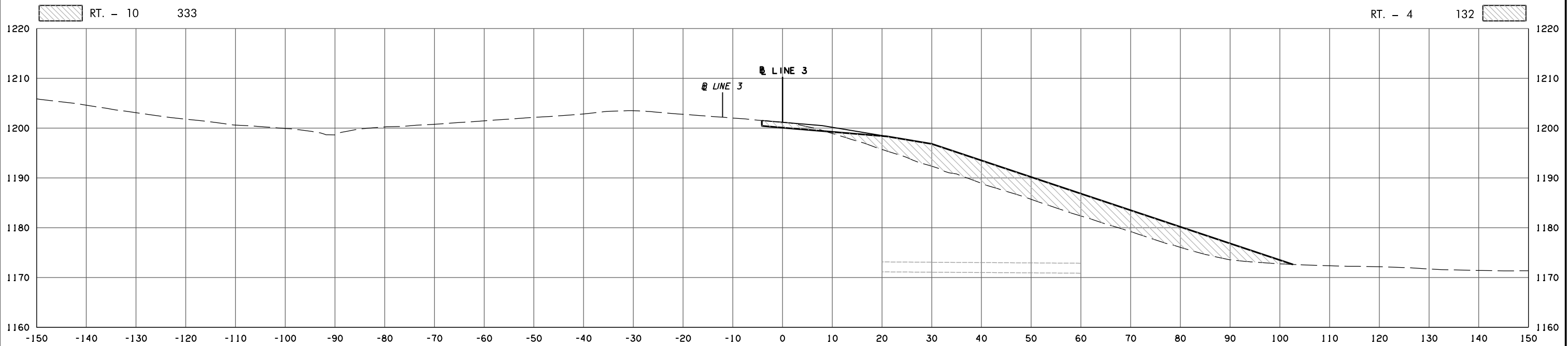
LINE 3 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X11

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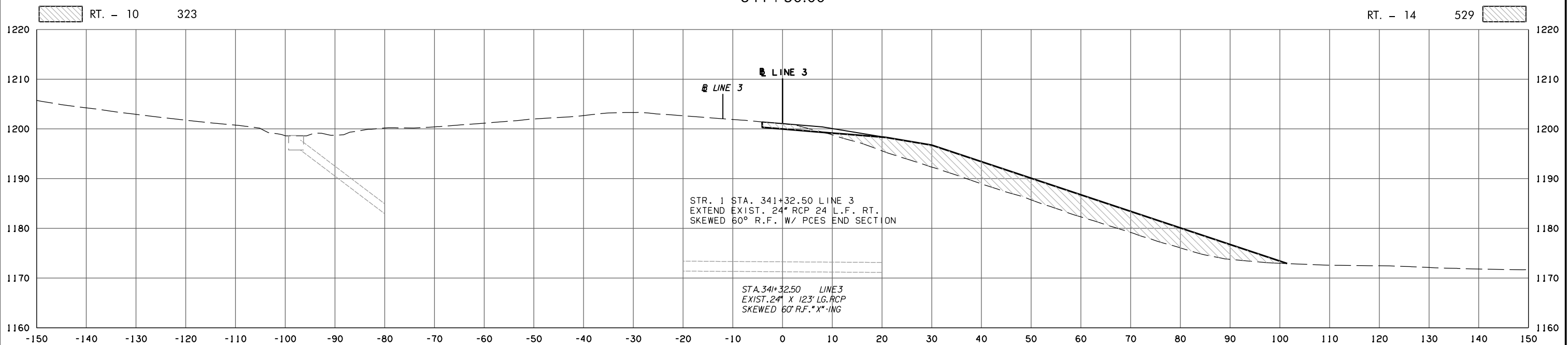
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



341+50.00



341+40.53

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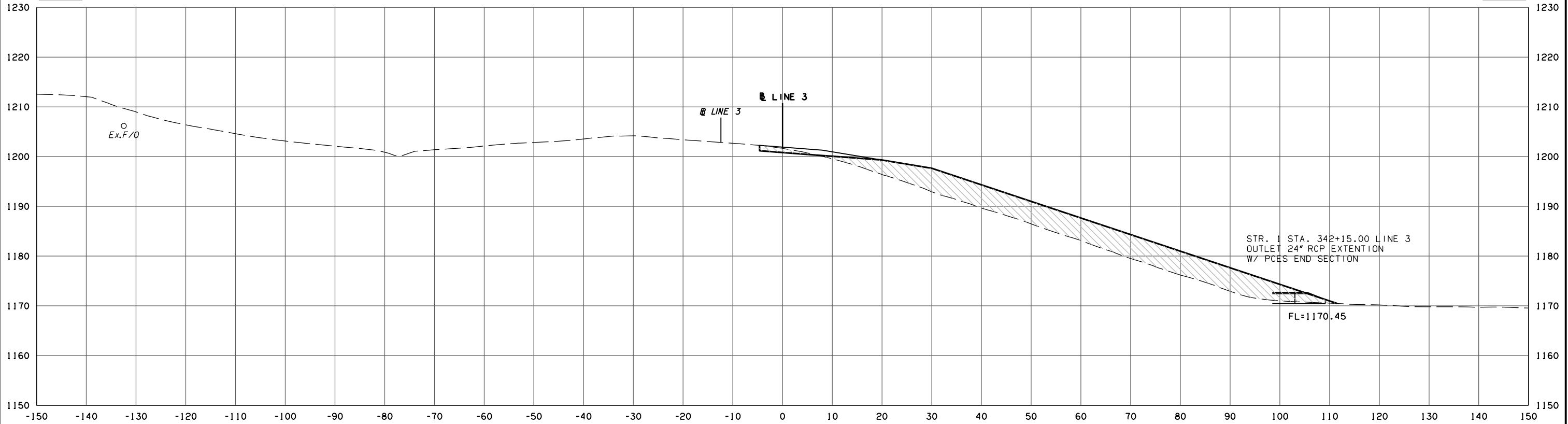
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

RT. - 8 394

VOLUME
CUT FILL

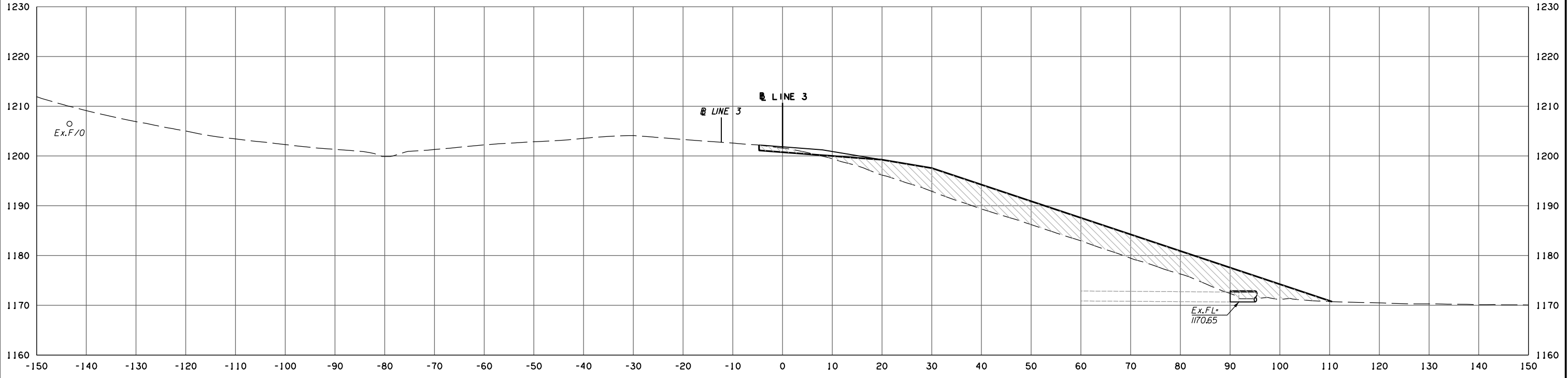
RT. - 4 254



342 + 15.02

RT. - 8 401

RT. - 17 781



342 + 00.00

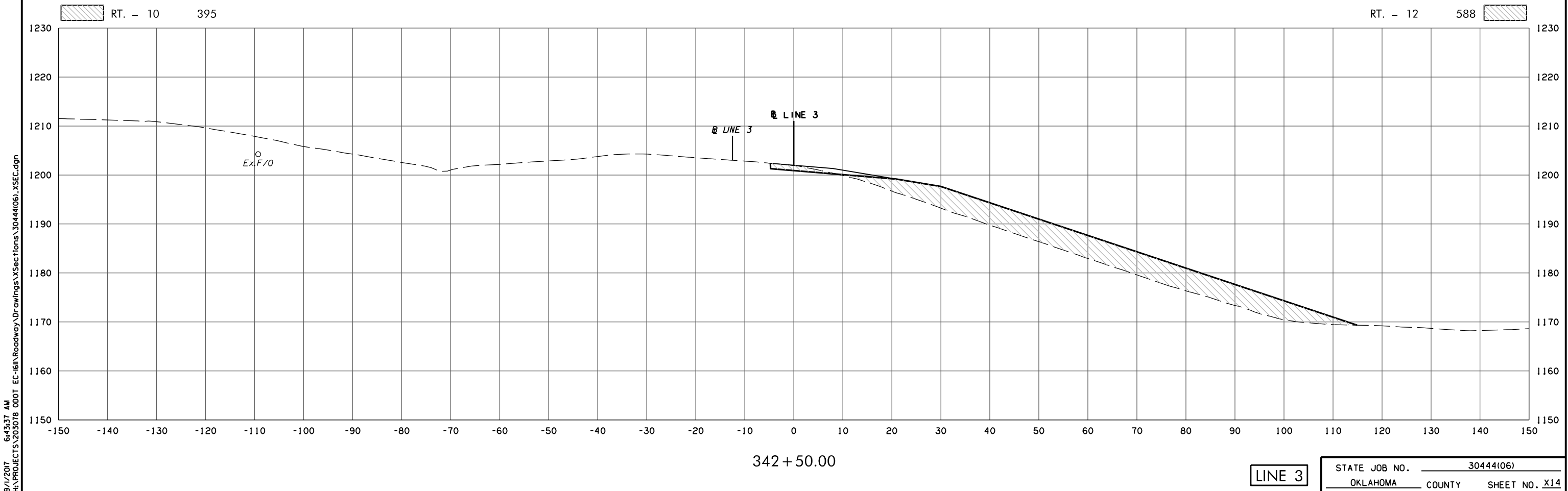
LINE 3 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X13

9/1/2017 6:43:36 AM H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



9/1/2017 6:43:37 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

LINE 3	STATE JOB NO. 30444(06)
	OKLAHOMA COUNTY SHEET NO. X14

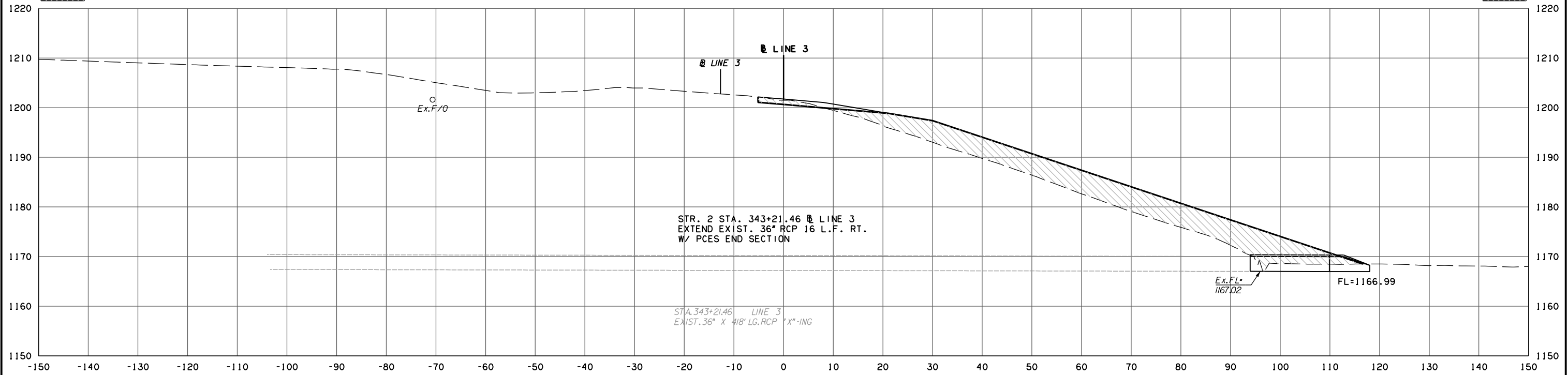
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FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

RT. - 10 433

VOLUME
CUT FILL

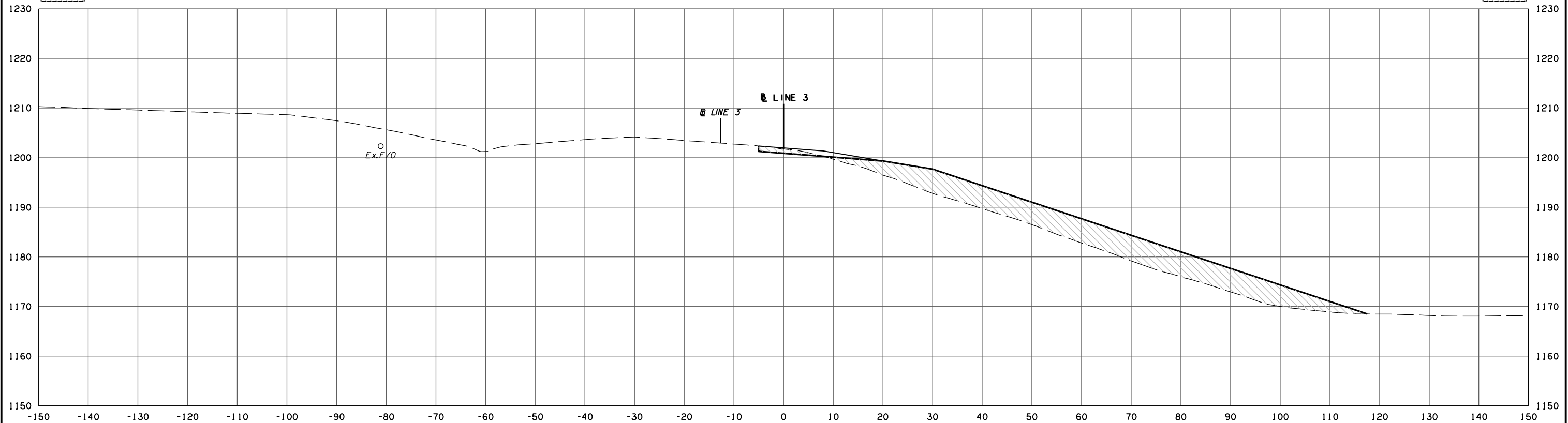
RT. - 8 394



343+21.46

RT. - 10 430

RT. - 18 878



343+00.00

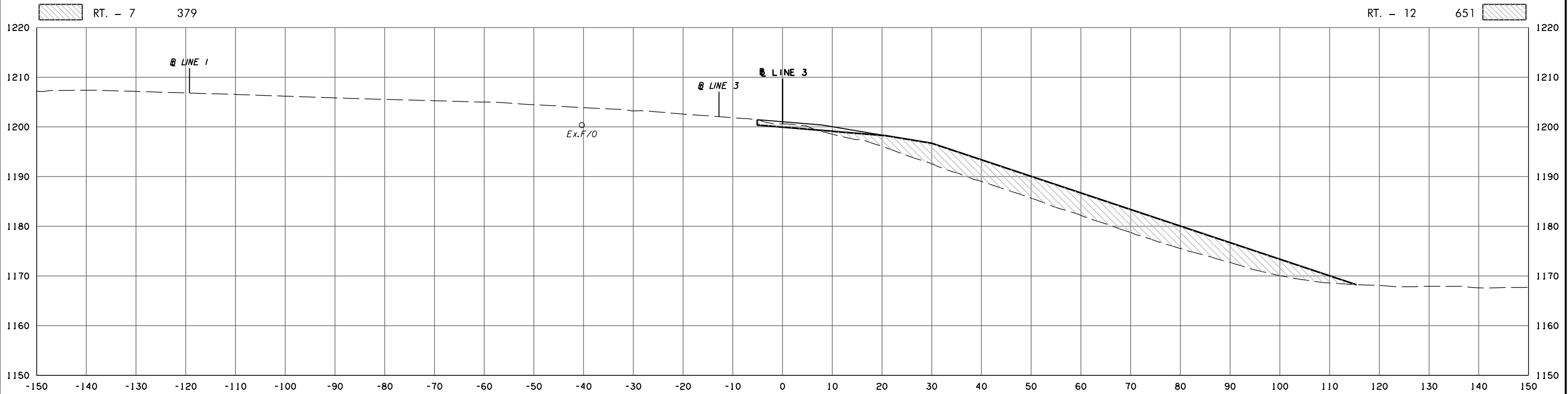
LINE 3 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X15

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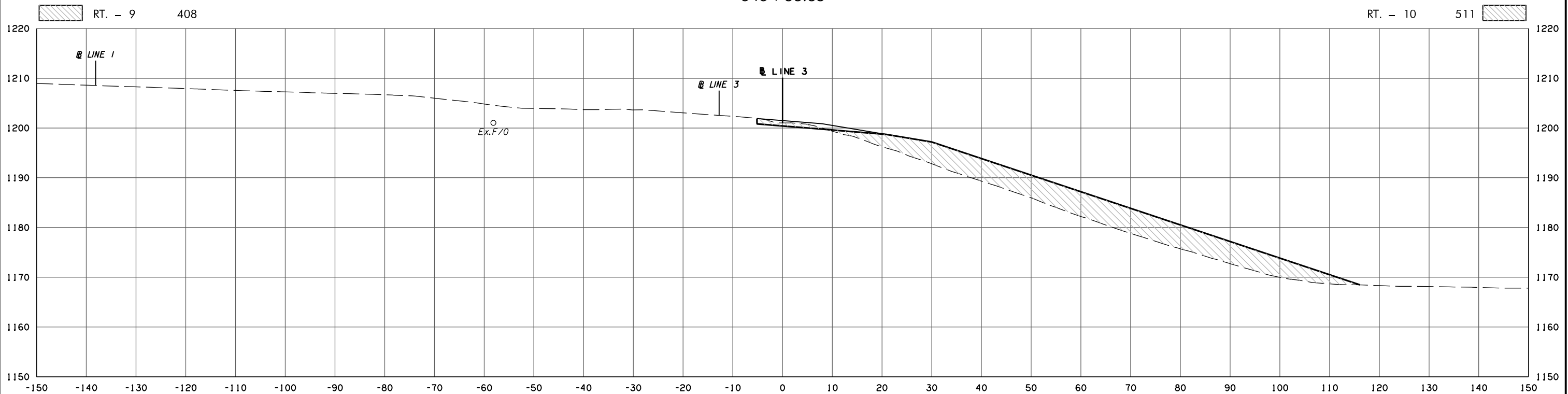
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



343 + 88.85



343 + 50.00

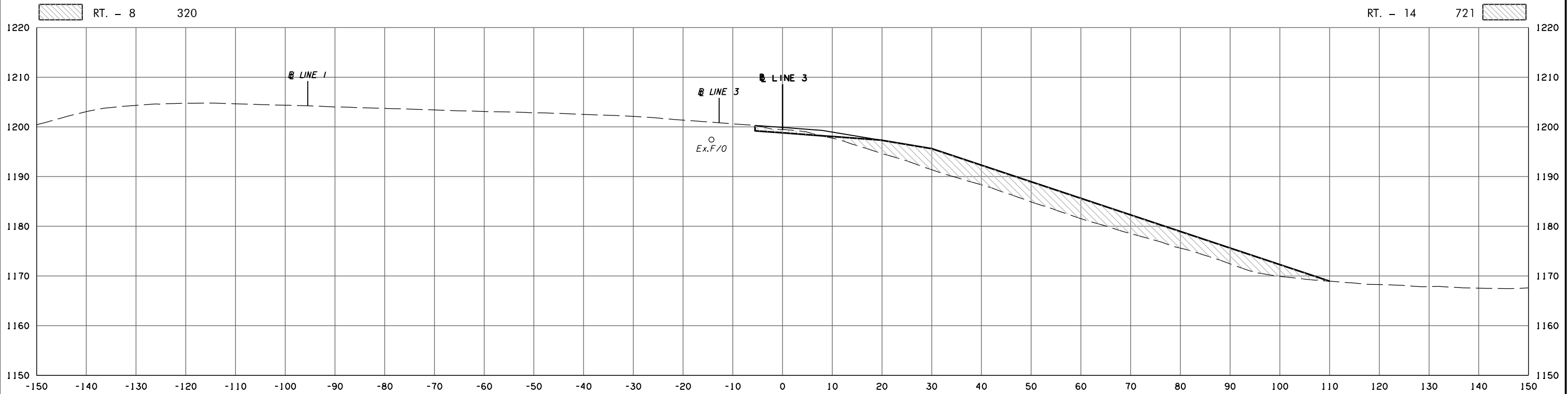
LINE 3	STATE JOB NO.	30444(06)
	OKLAHOMA COUNTY	SHEET NO. X16

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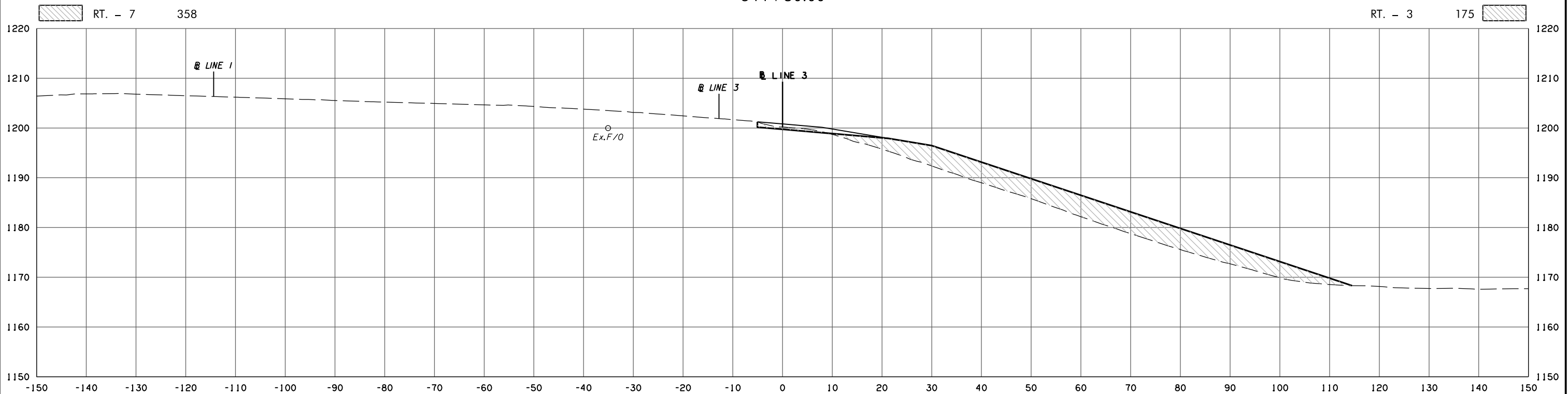
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FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



344 + 50.00



344 + 00.00

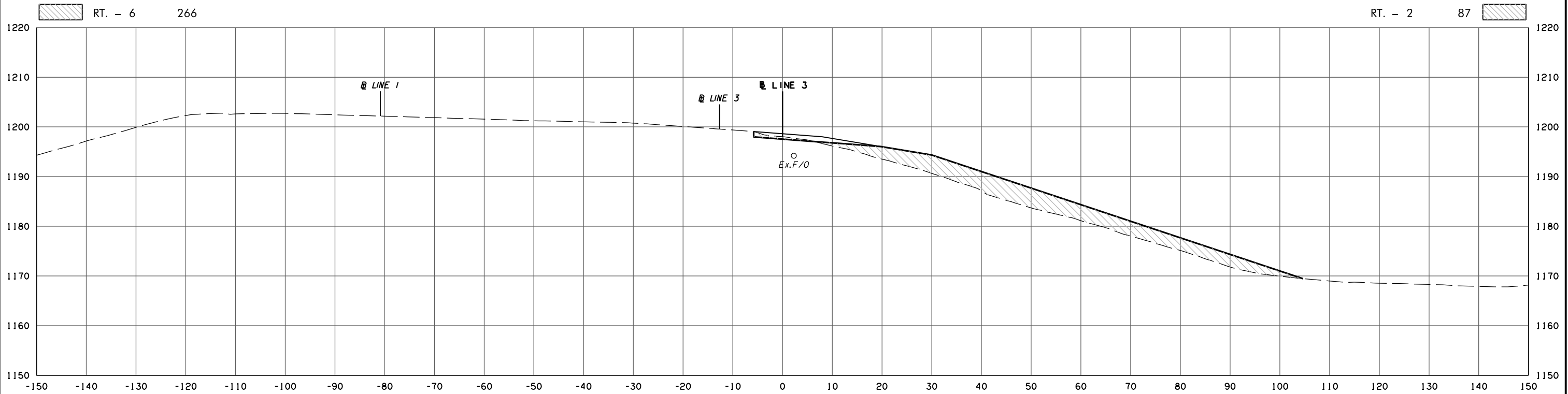
LINE 3 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X17

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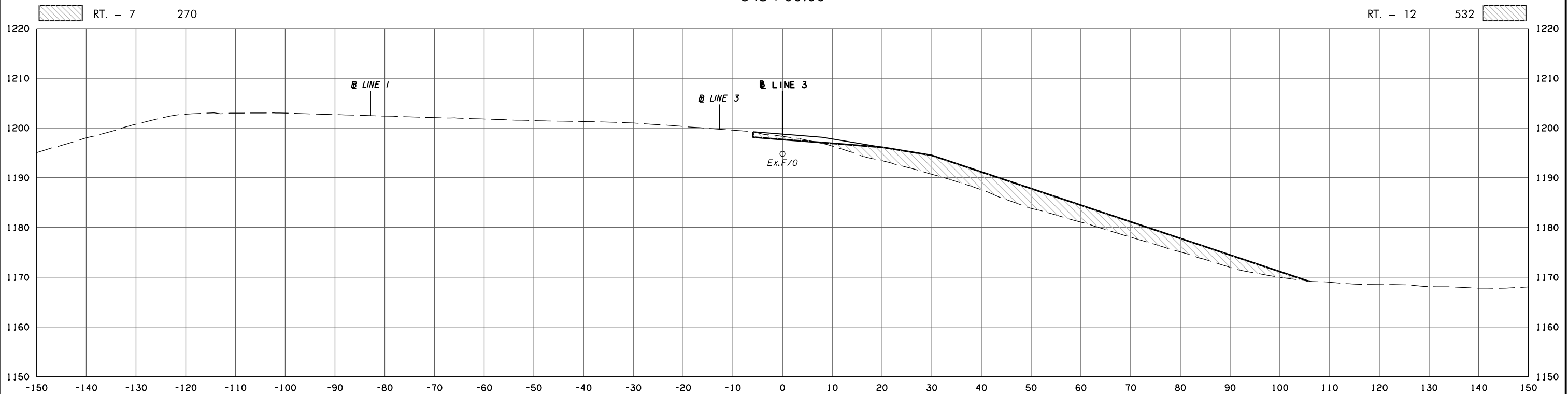
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FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



345 + 00.00



344 + 92.35
FIBER OPTIC LINE CROSSING - ELEVATION UNKNOWN

LINE 3

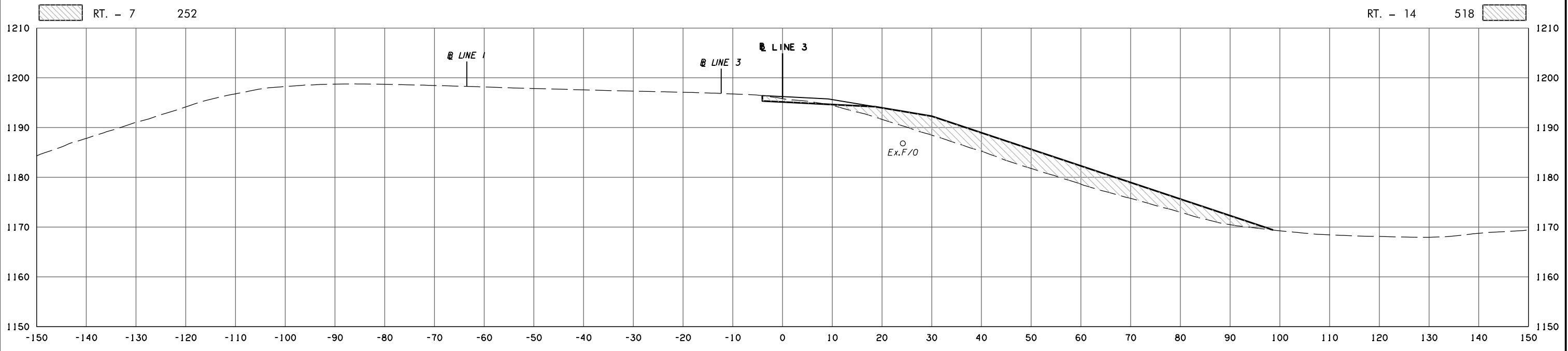
STATE JOB NO.	30444(06)
OKLAHOMA COUNTY	SHEET NO. X18

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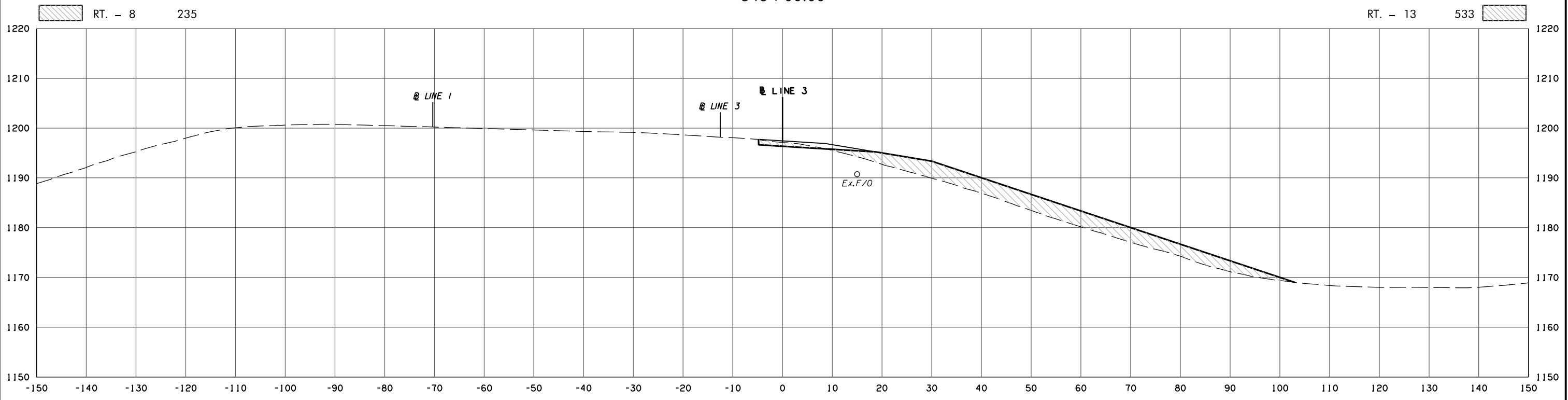
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION		REVISIONS		DATE		

AREA
CUT FILL

VOLUME
CUT FILL



346+00.00



345+50.00

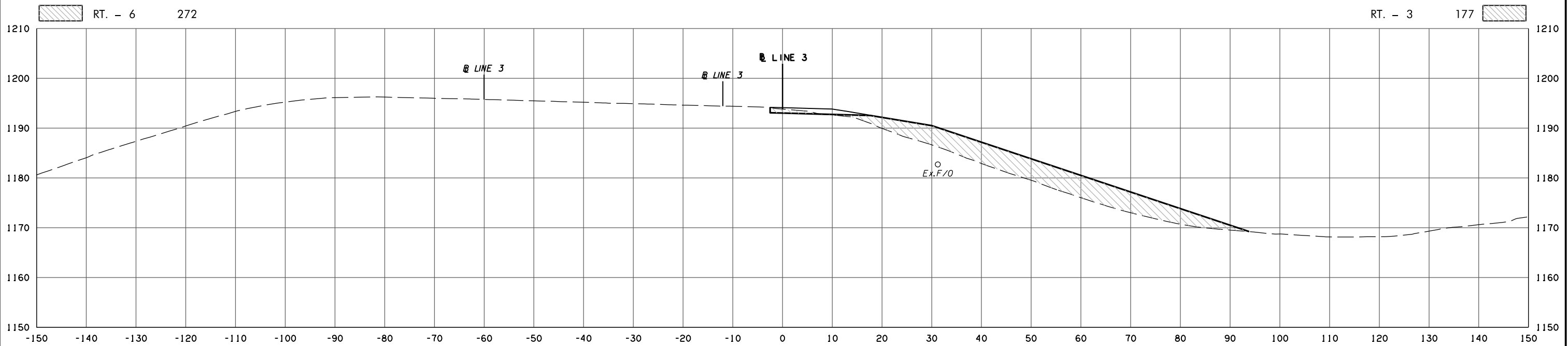
LINE 3 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X19

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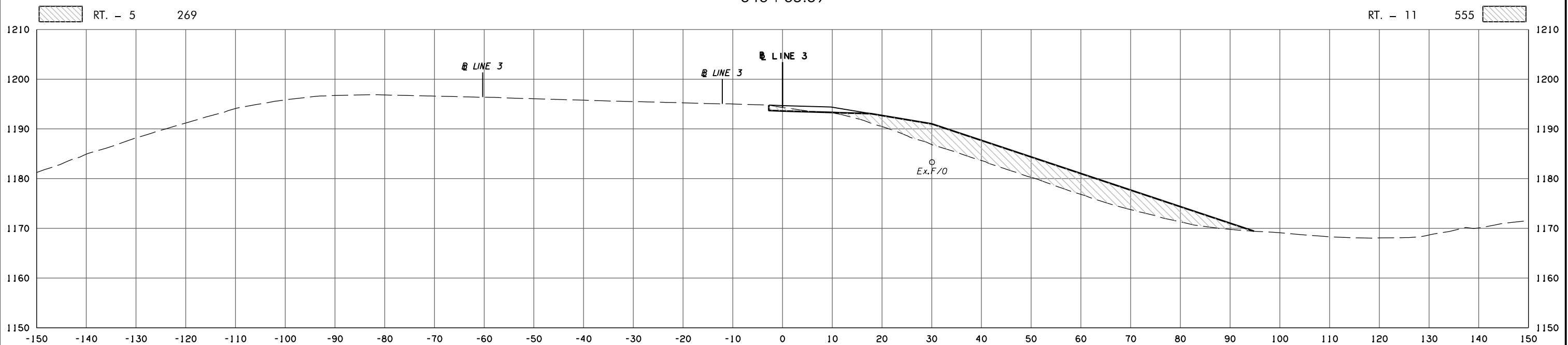
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FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



346 + 65.39



346 + 50.00

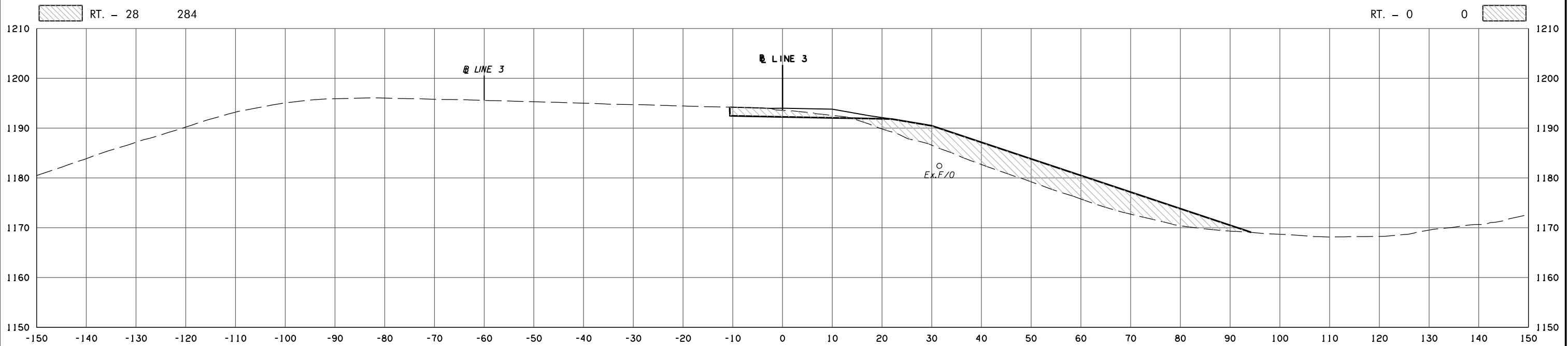
LINE 3 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X20

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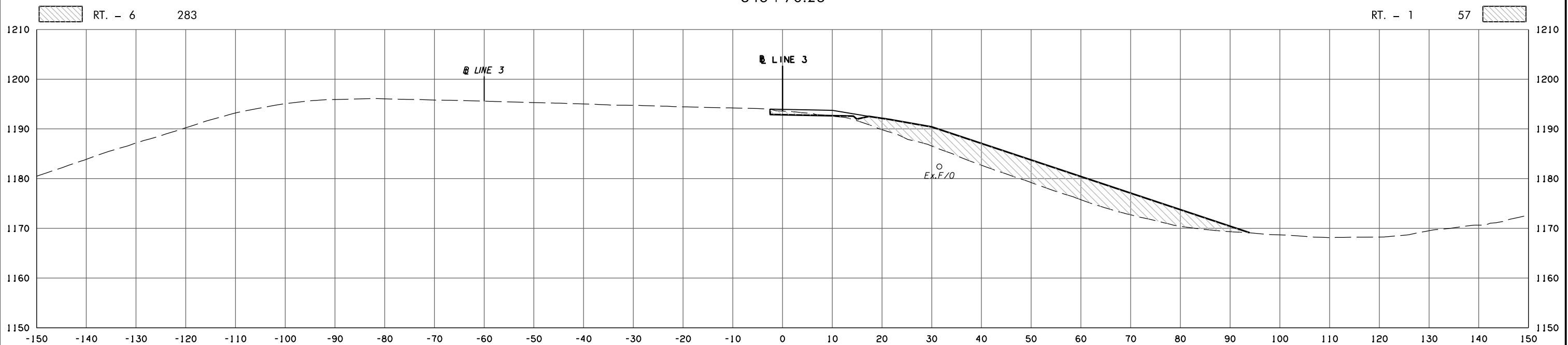
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FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



346 + 70.26



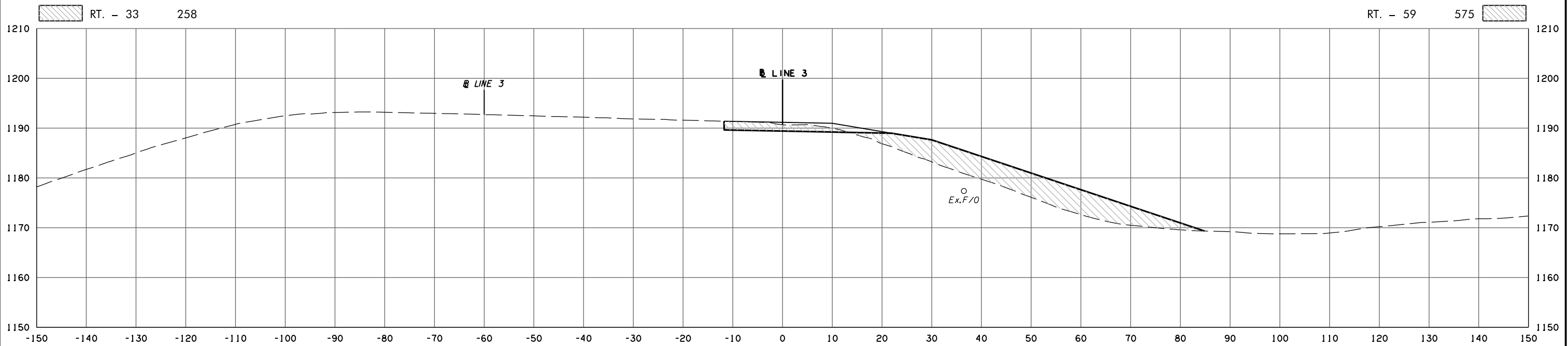
346 + 70.26

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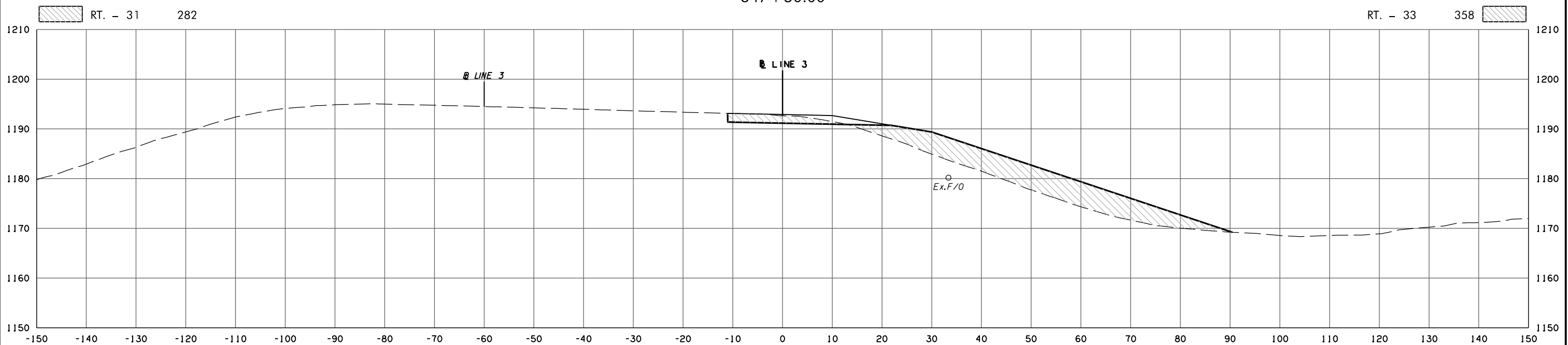
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



347 + 50.00



347 + 00.00

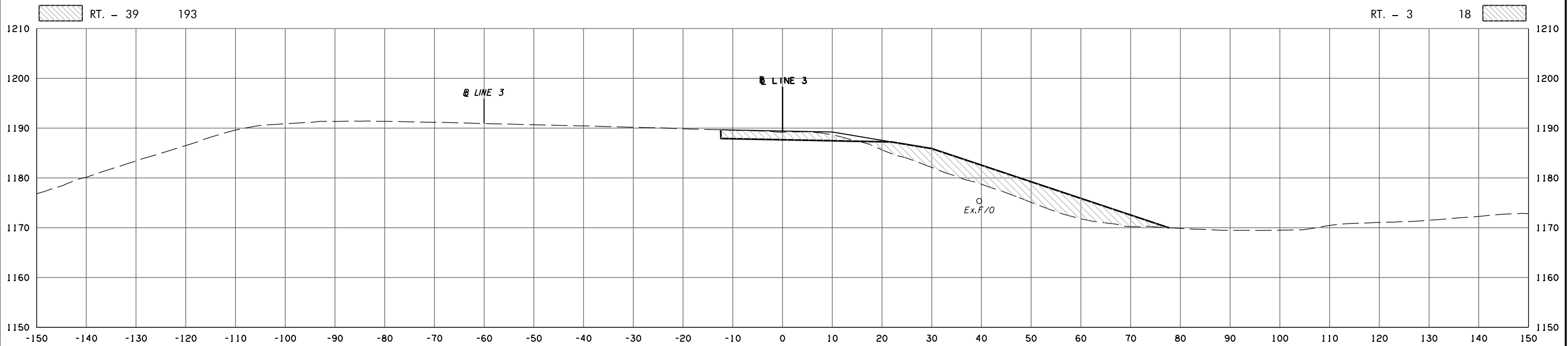
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LINE 3 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X22

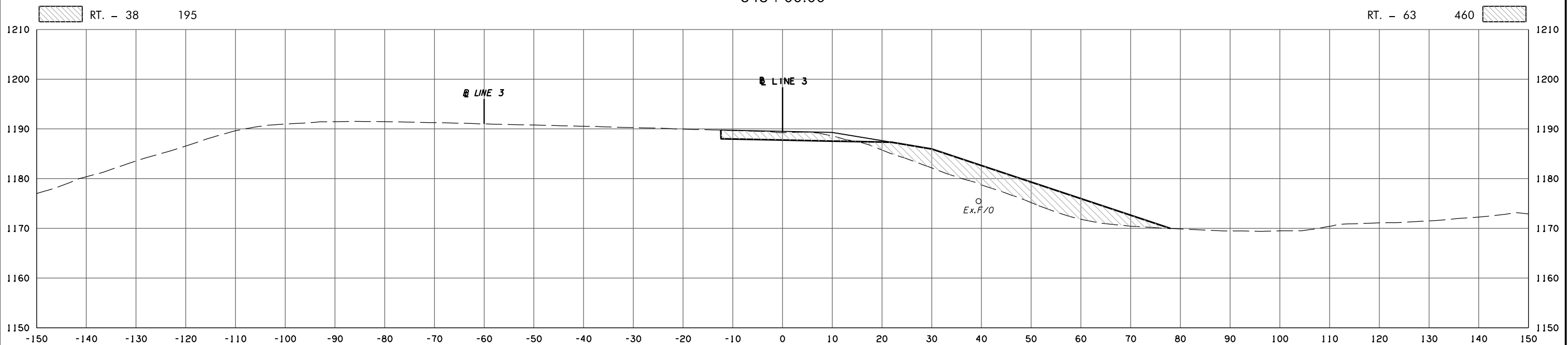
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FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



348 + 00.00



347 + 97.78

9/1/2017 6:43:45 AM H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\XSections\30444(06).XSEC.dgn

LINE 3 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X23

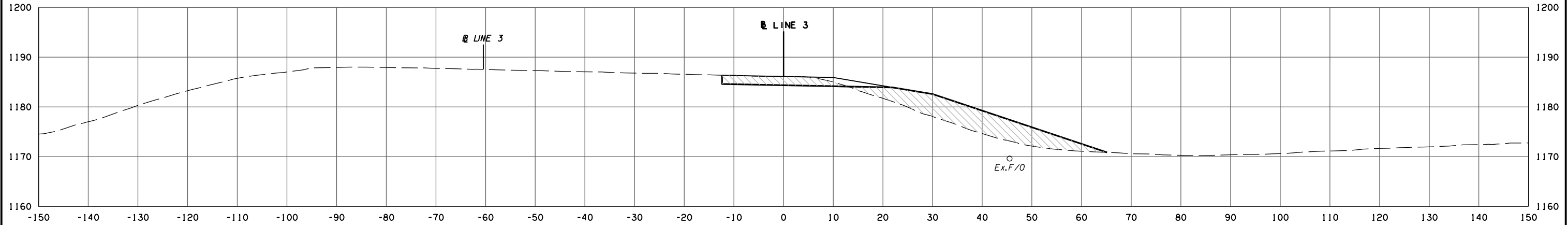
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FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

RT. - 38 163

VOLUME CUT FILL

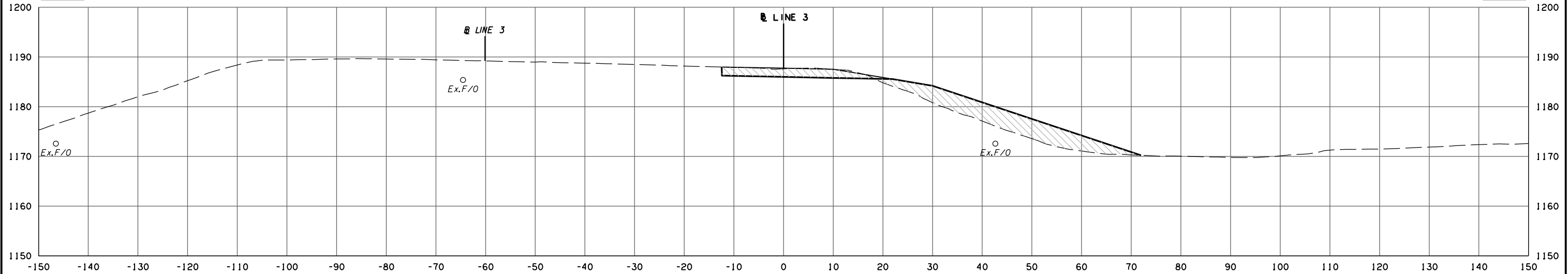
RT. - 80 338



349 + 00.00

RT. - 49 155

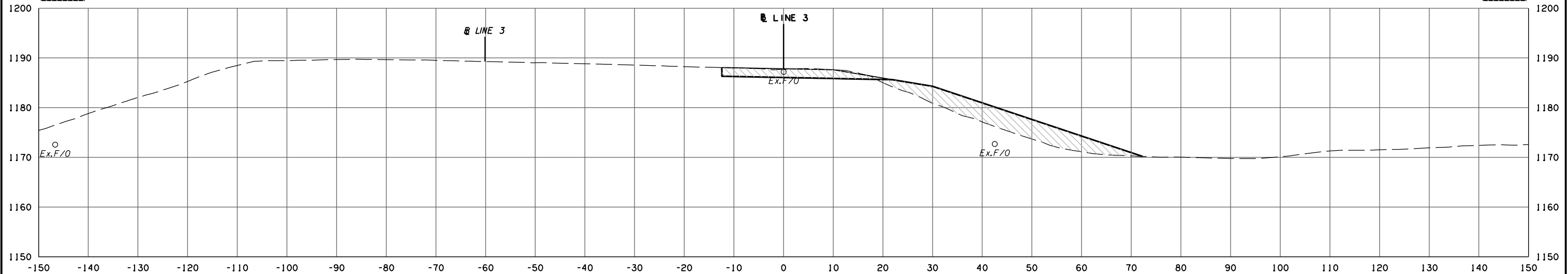
RT. - 4 14



348 + 50.00

RT. - 49 155

RT. - 79 355



348 + 47.92

FIBER OPTIC LINE CROSSING - ELEVATION UNKNOWN

LINE 3

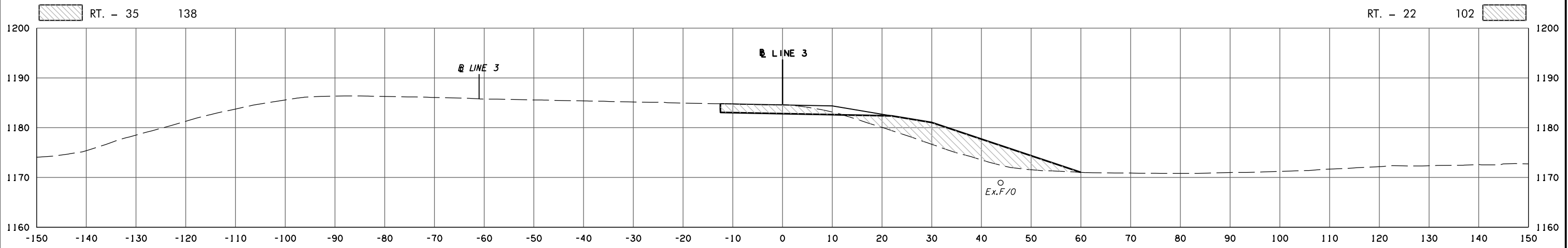
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OKLAHOMA COUNTY	SHEET NO. X24

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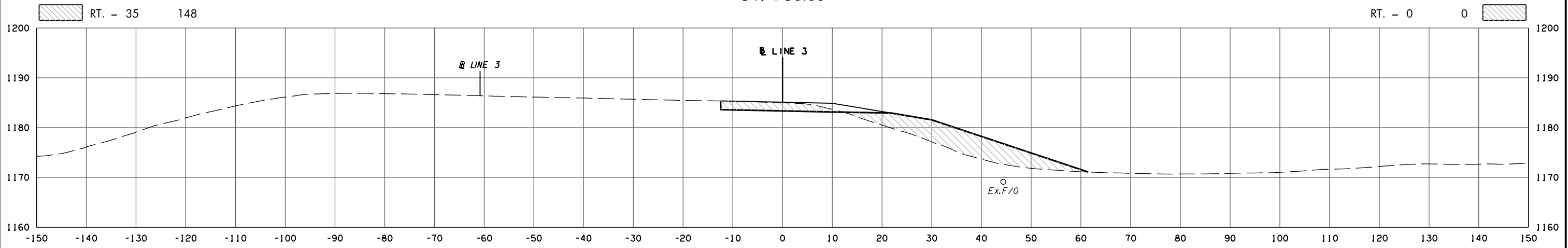
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

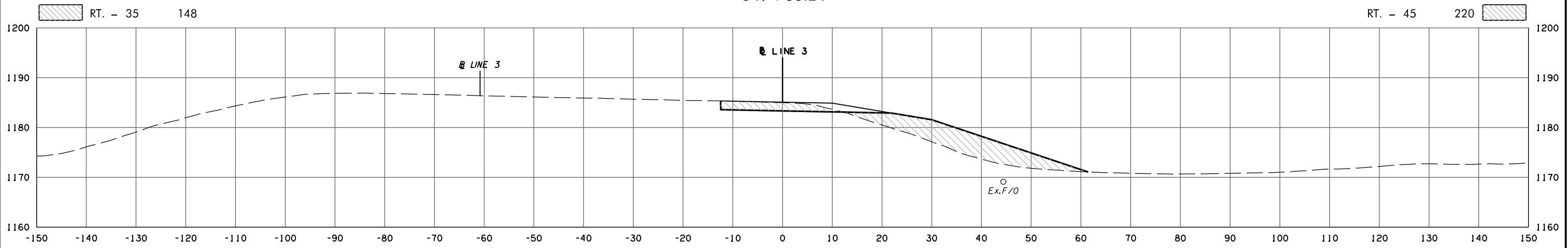
VOLUME
CUT FILL



349 + 50.00



349 + 33.21



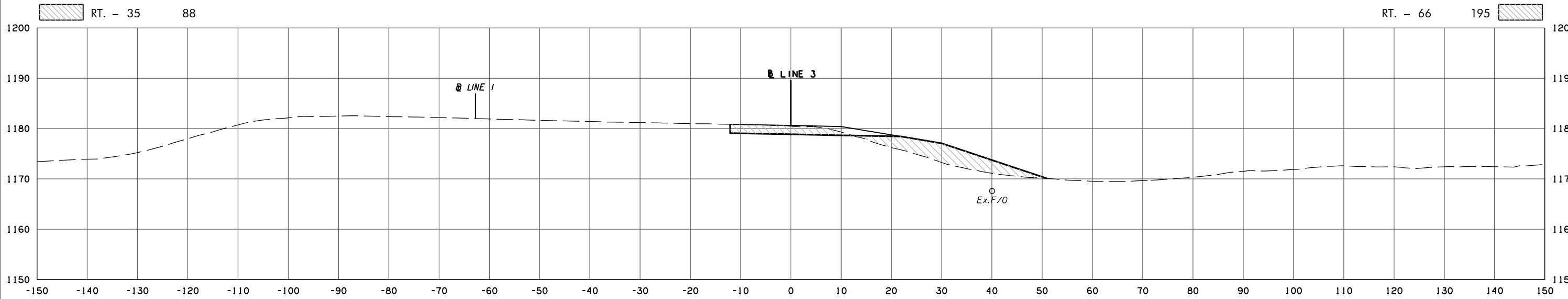
349 + 33.21

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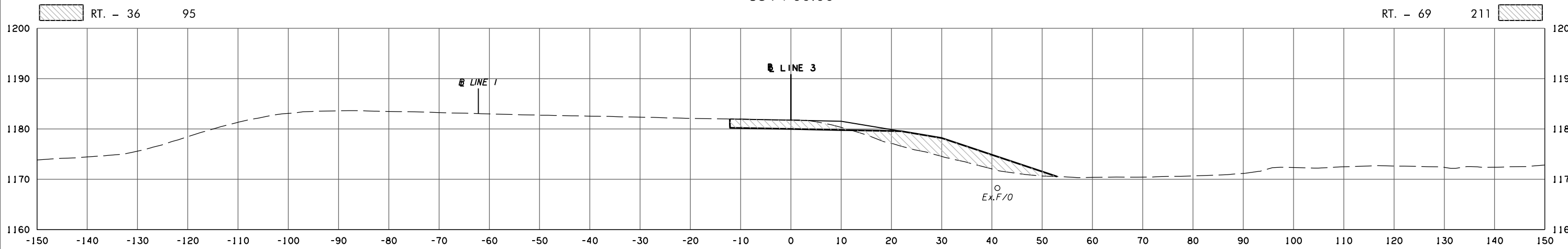
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6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

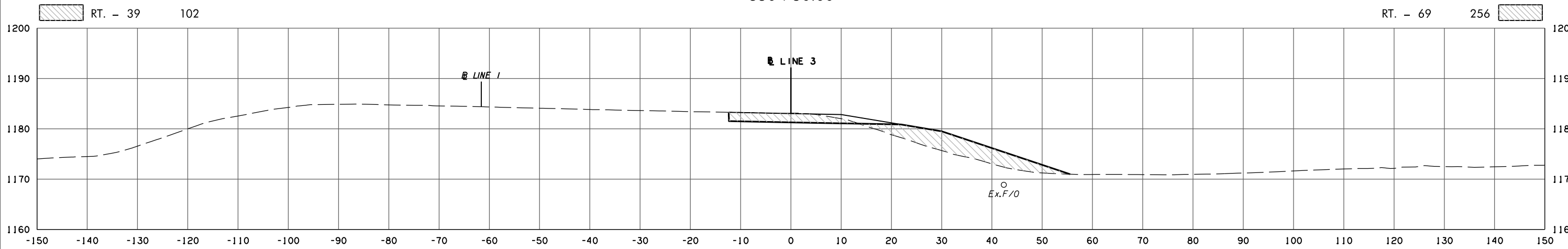
VOLUME
CUT FILL



351+00.00



350+50.00



350+00.00

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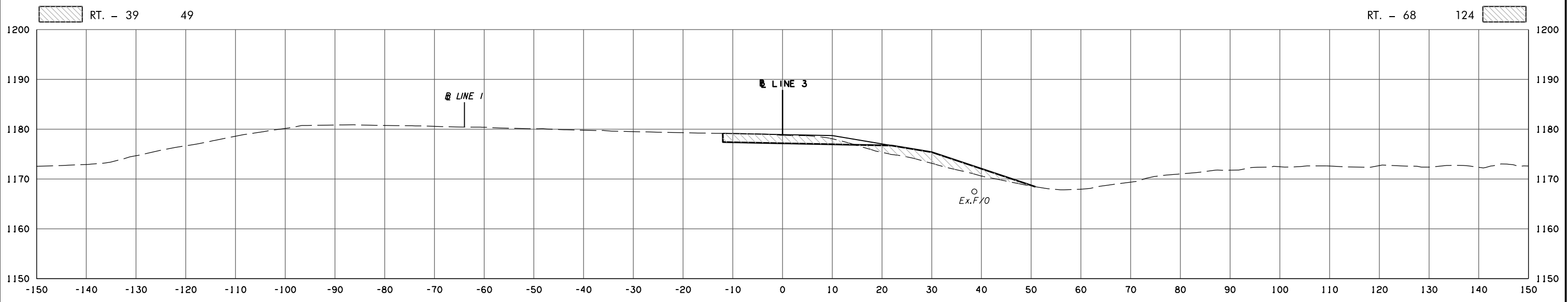
LINE 3

STATE JOB NO.	30444(06)
OKLAHOMA COUNTY	SHEET NO. X26

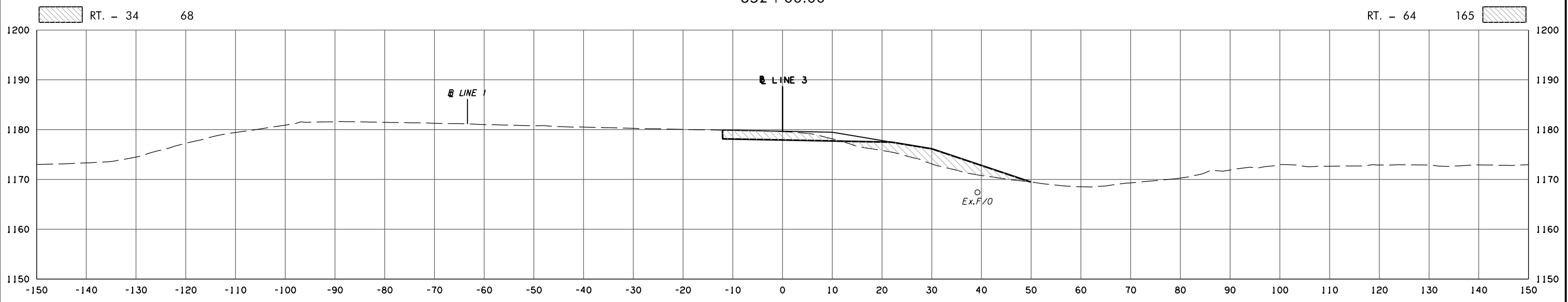
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FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



352+00.00



351+50.00

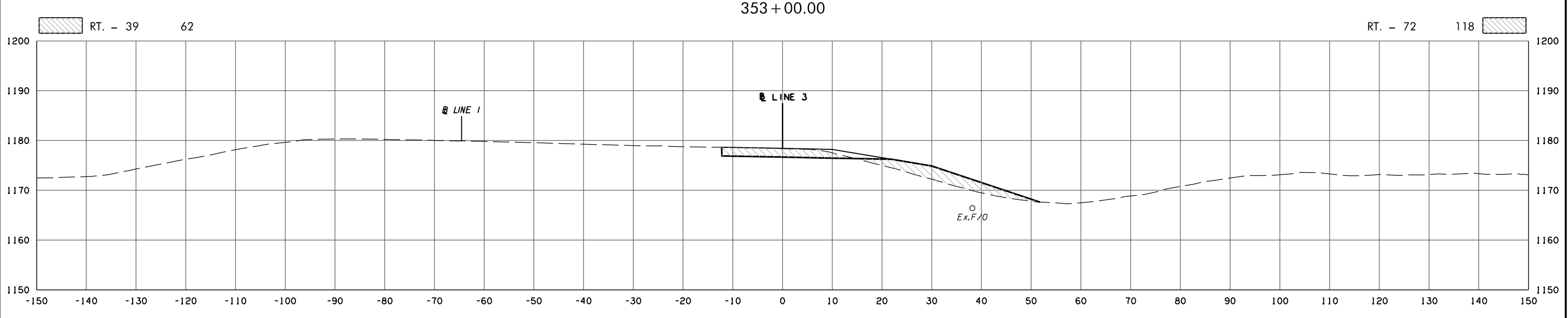
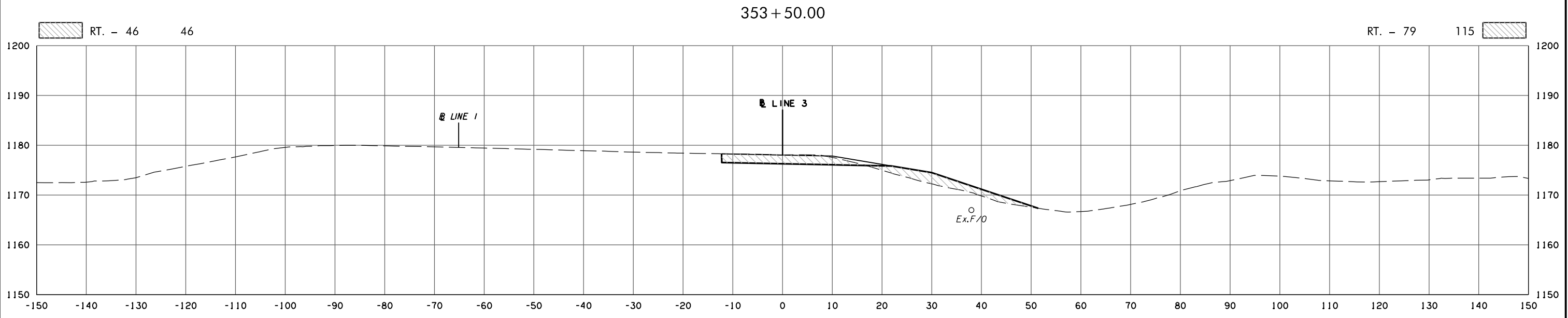
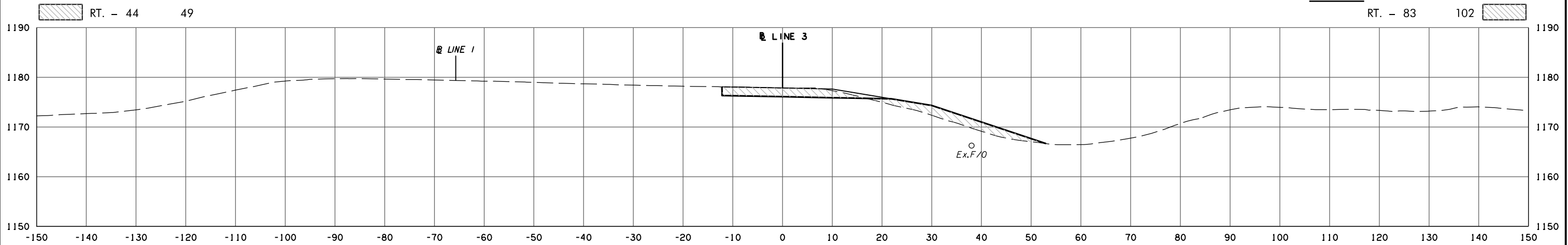
9/1/2017 6:43:49 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\XSections\30444(06)_XSEC.dgn

LINE 3	STATE JOB NO.	30444(06)
	OKLAHOMA COUNTY	SHEET NO. X27

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME CUT FILL

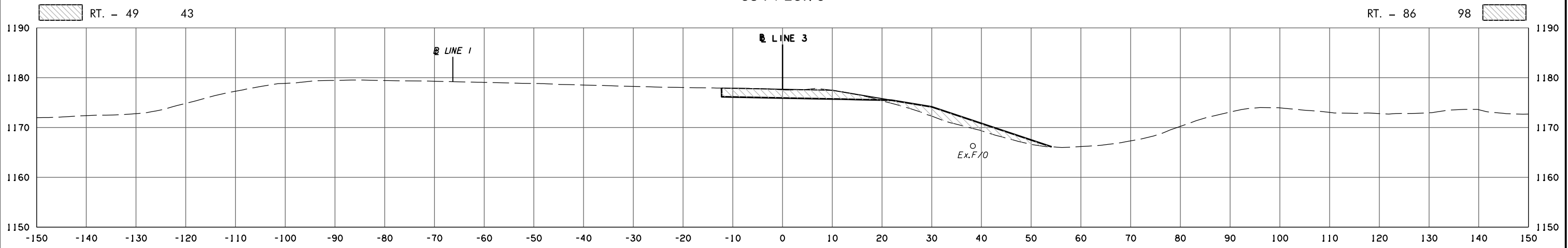
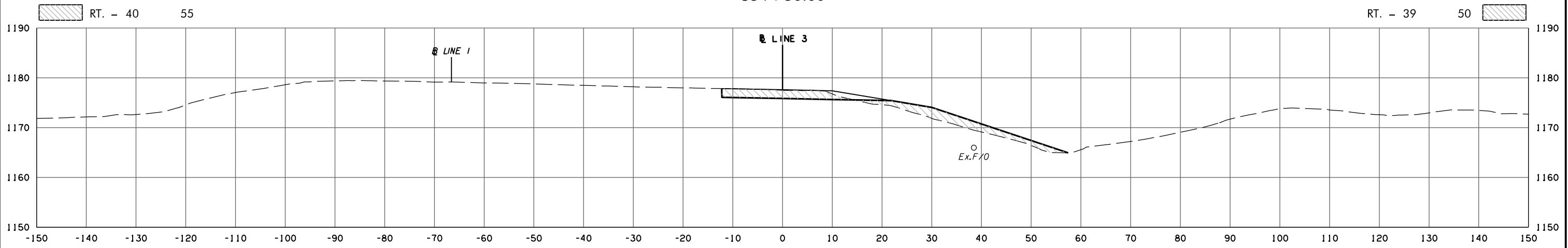
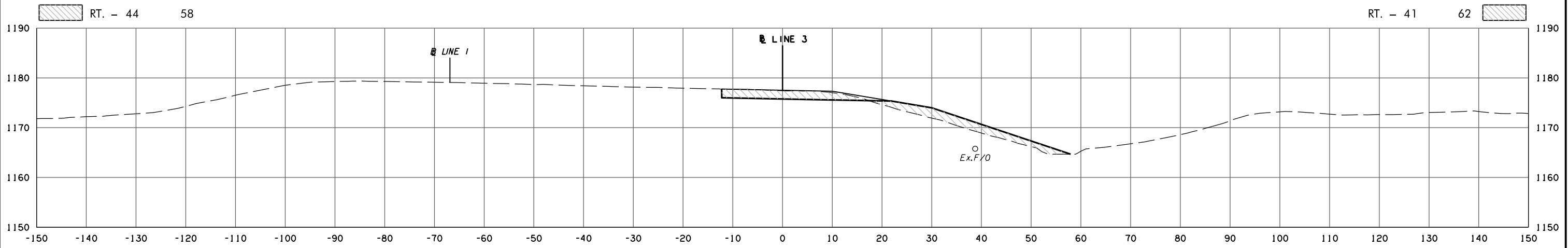


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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

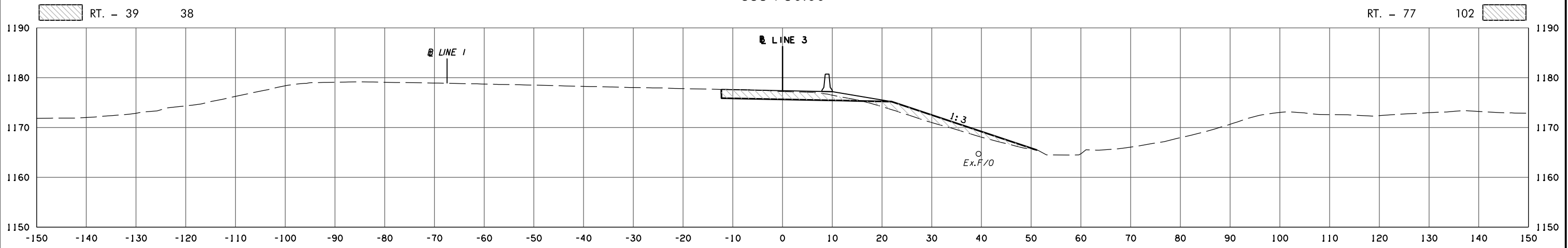
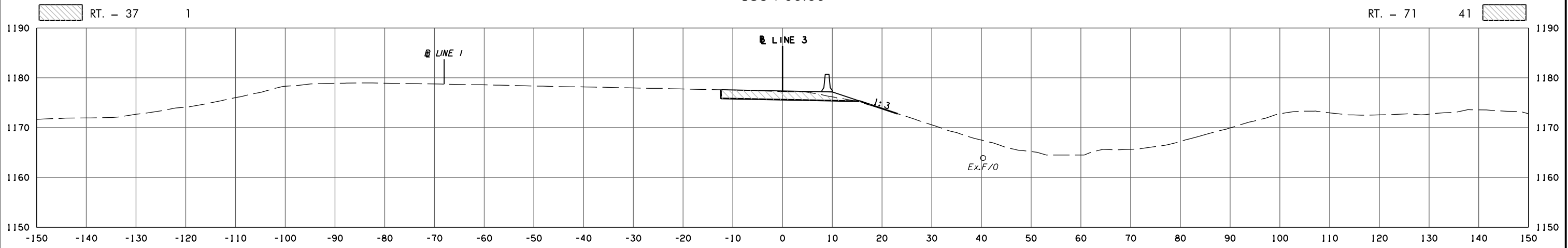
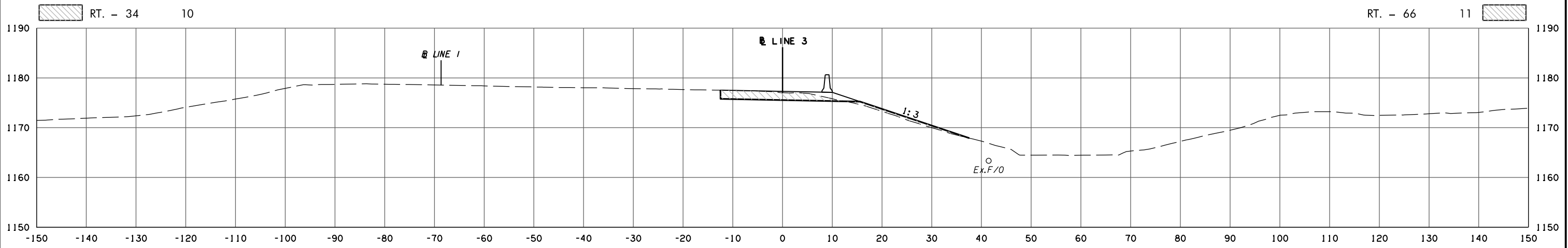


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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

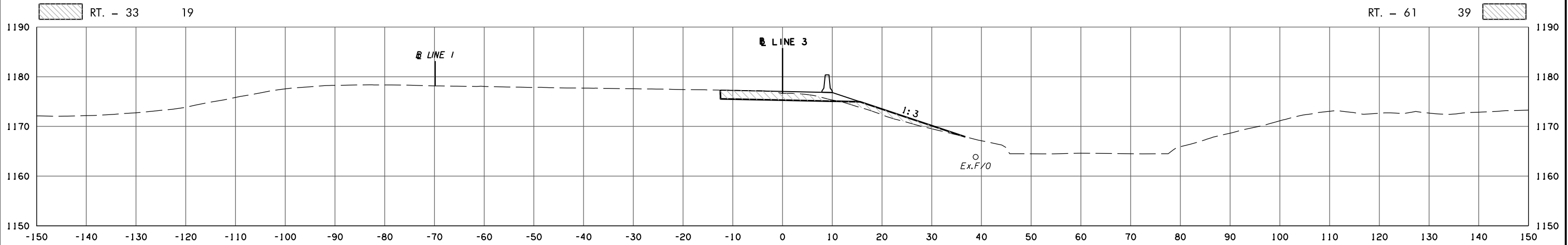


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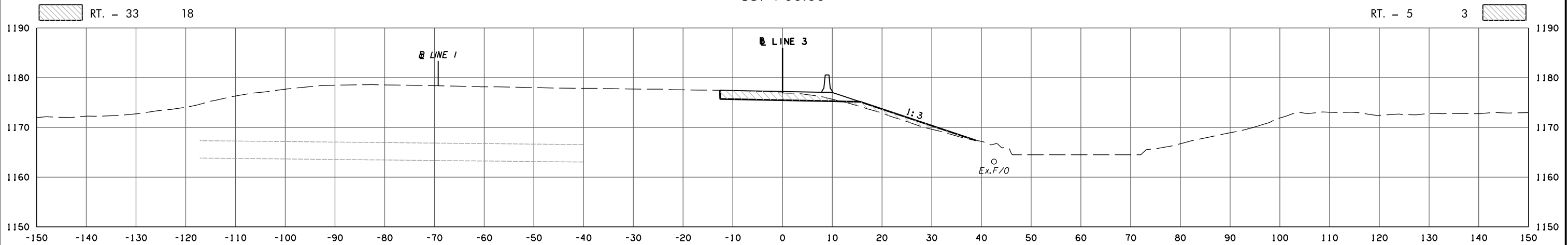
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
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6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

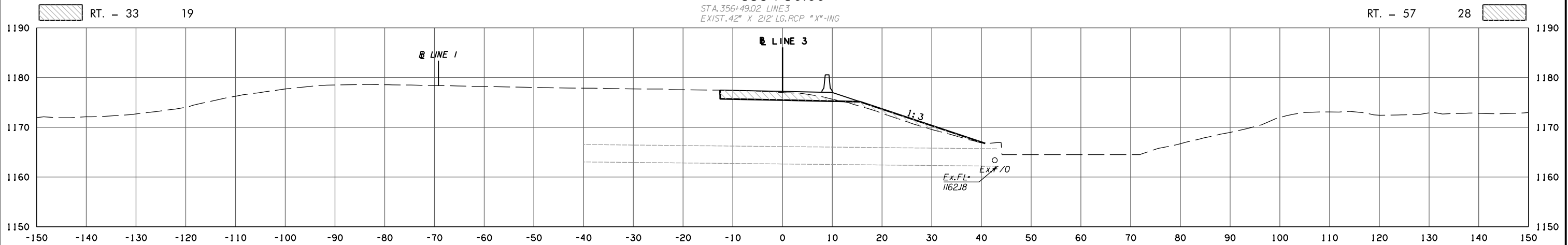


357+00.00



356+50.00

STA. 356+49.02 LINE 3
EXIST. 42" X 212' LG. RCP "X"-ING



356+46.10

LINE 3

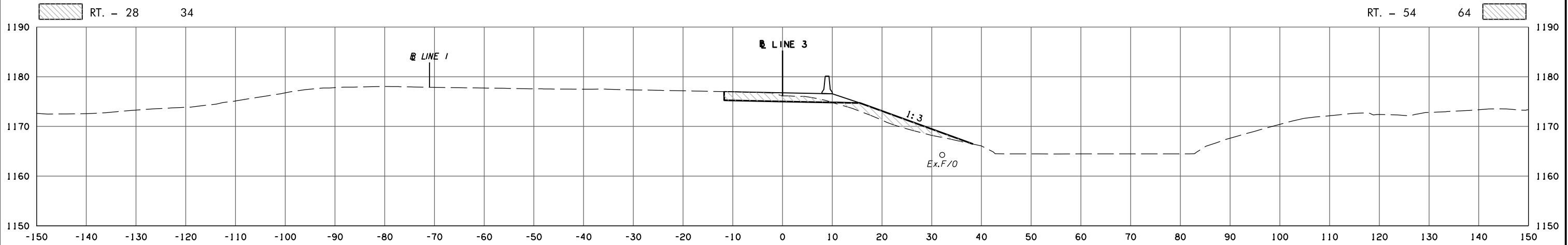
STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X31

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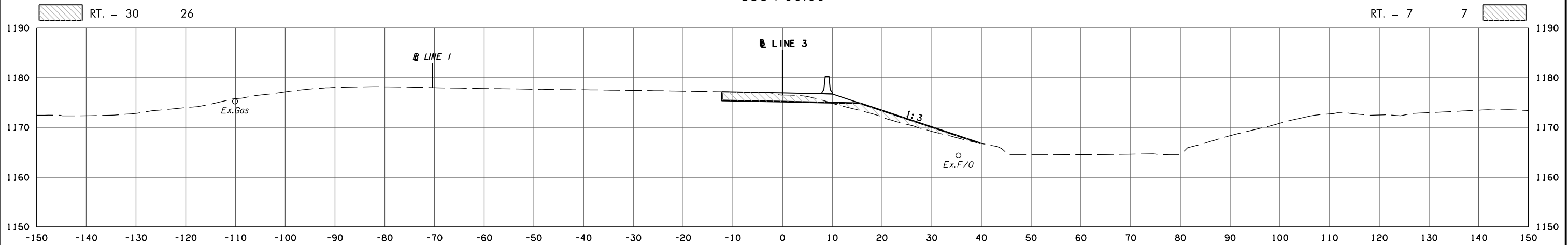
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

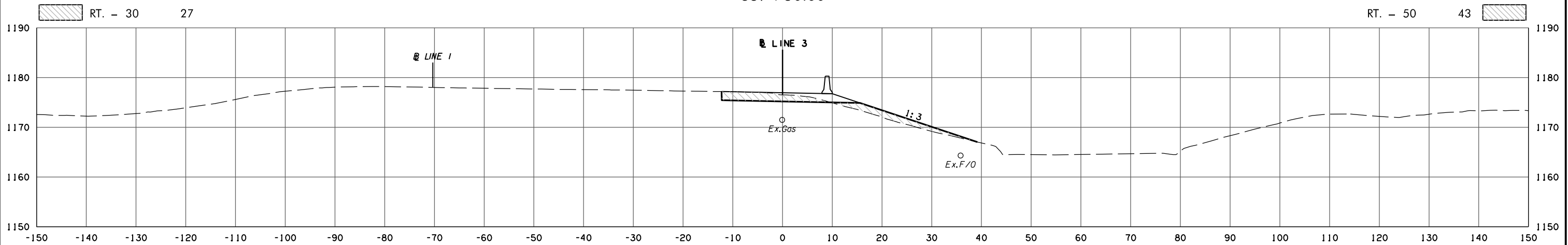
VOLUME
CUT FILL



358 + 00.00



357 + 50.00



357 + 43.52
GAS LINE CROSSING - ELEVATION UNKNOWN

LINE 3

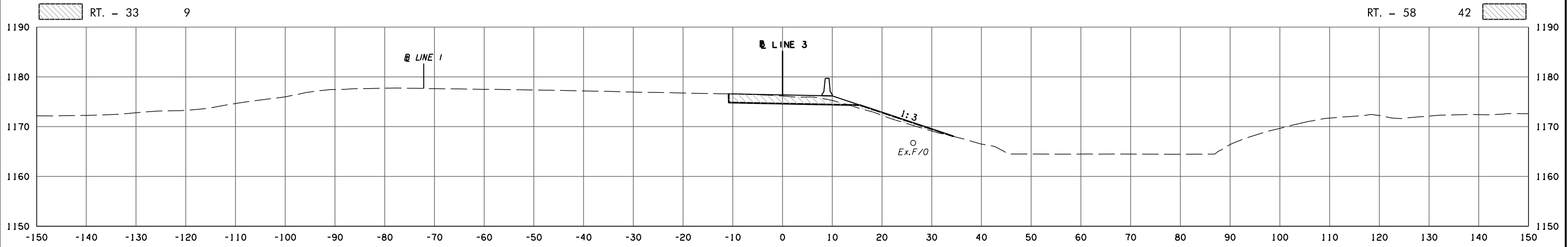
STATE JOB NO.	30444(06)
OKLAHOMA COUNTY	SHEET NO. X32

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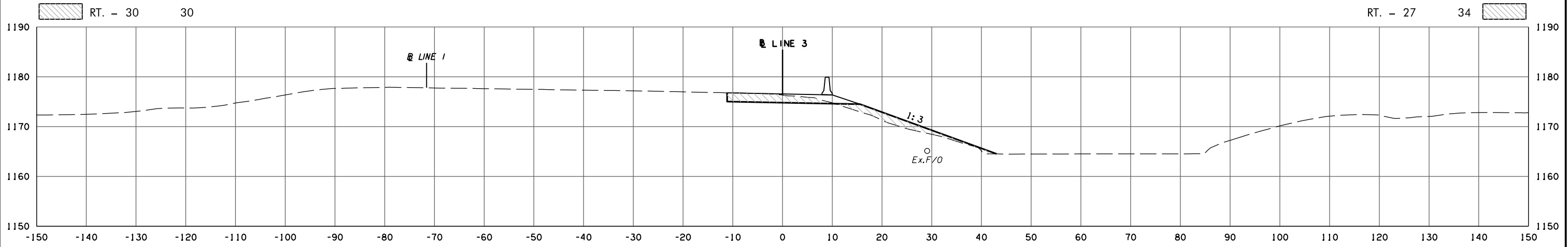
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

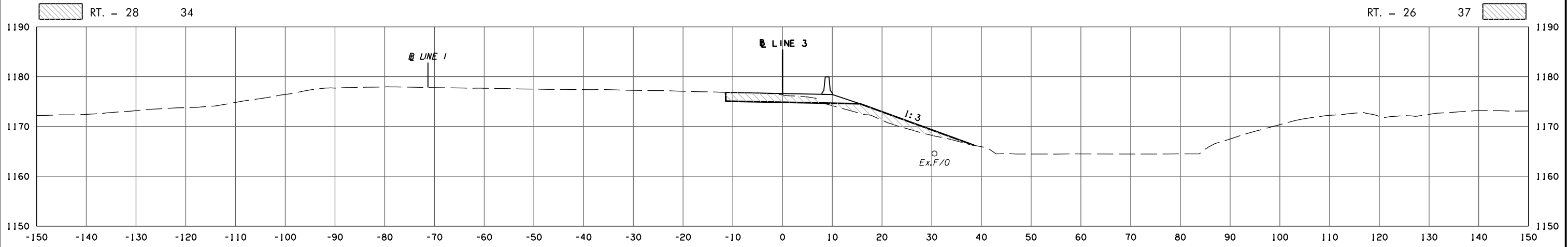
VOLUME
CUT FILL



359+00.00



358+50.00



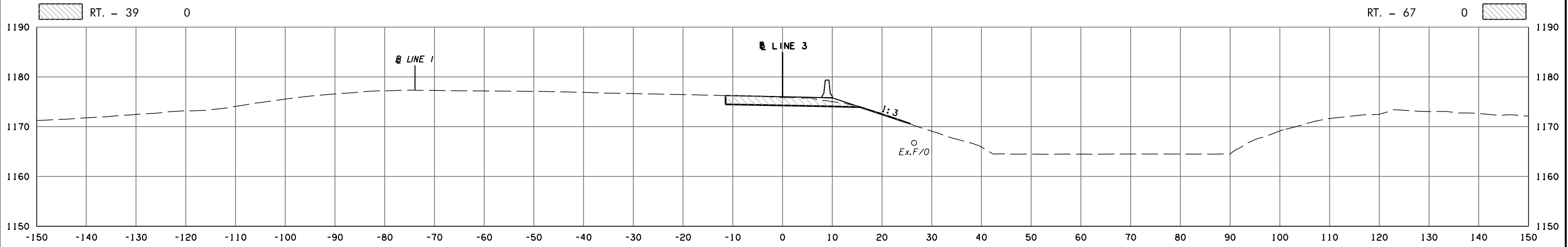
358+25.22

9/1/2017 6:43:55 AM H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\XSections\30444(06).XSEC.dgn

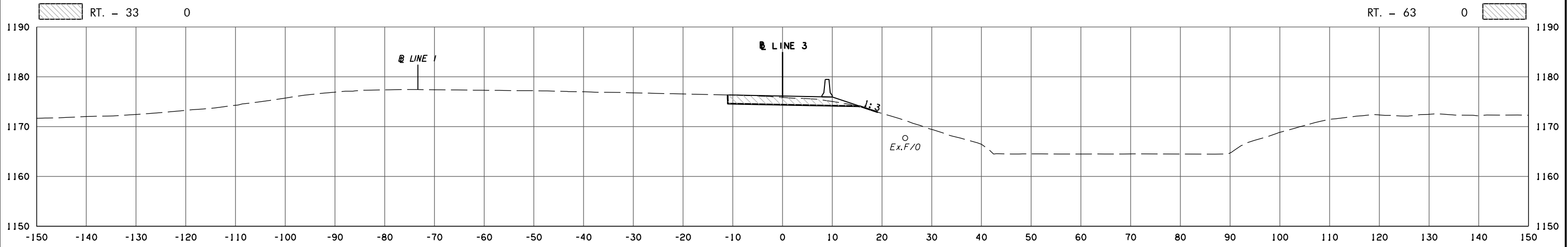
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

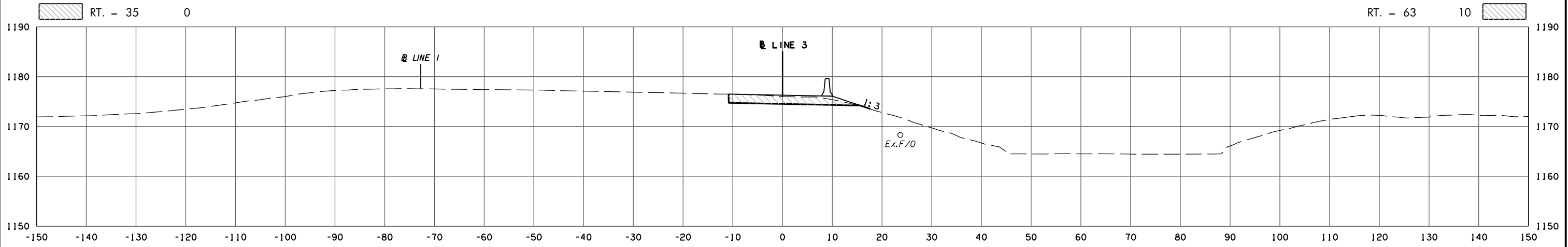
VOLUME
CUT FILL



360+50.00



360+00.00



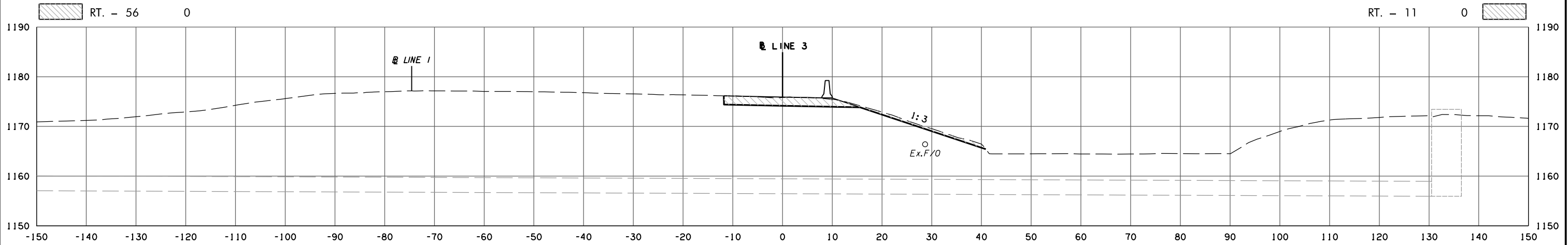
359+50.00

9/1/2017 6:43:56 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

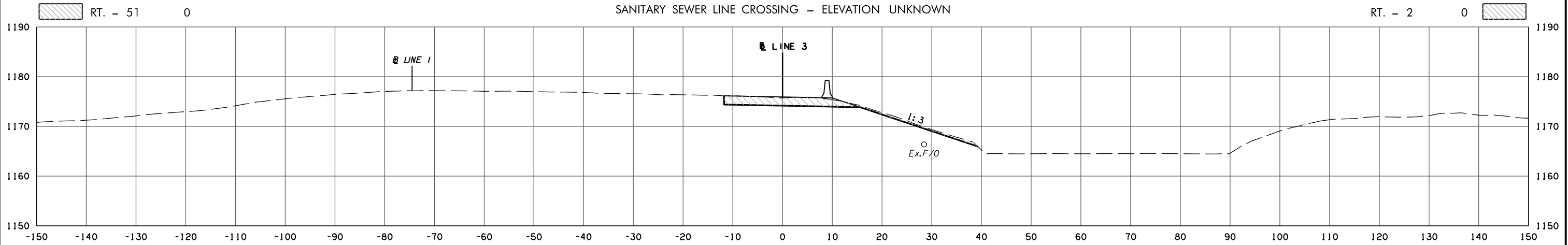
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

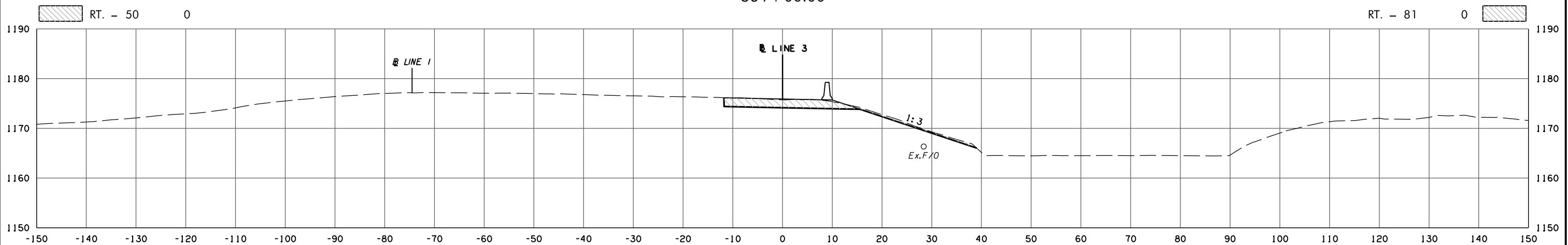
VOLUME
CUT FILL



361+05.71
SANITARY SEWER LINE CROSSING - ELEVATION UNKNOWN



361+00.00



360+98.83
OVERHEAD POWER LINE CROSSING (3 LINES) - ELEVATION UNKNOWN

LINE 3

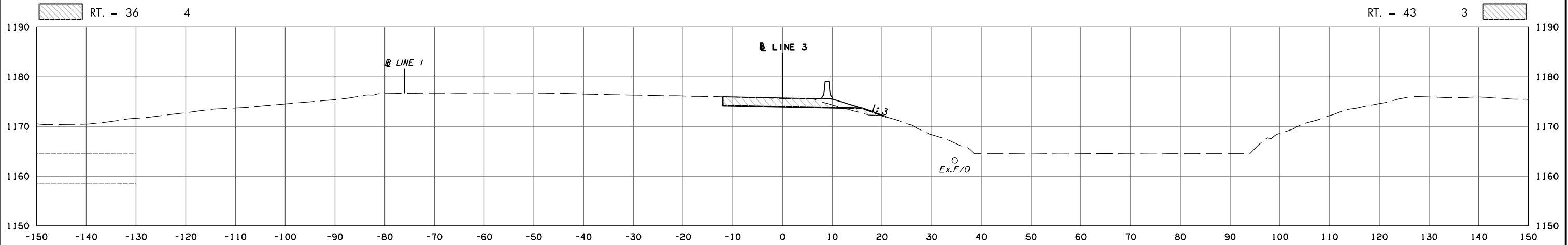
STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X35

9/1/2017 6:43:57 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

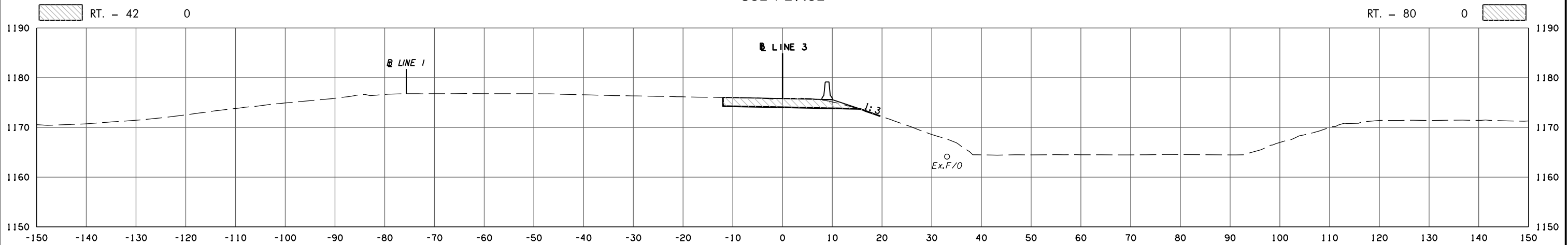
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

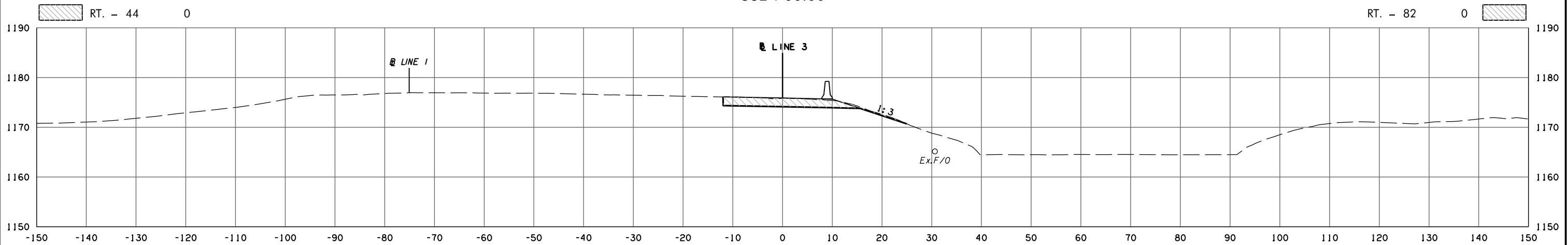
VOLUME
CUT FILL



362+29.62



362+00.00



361+50.00

9/1/2017 6:43:58 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

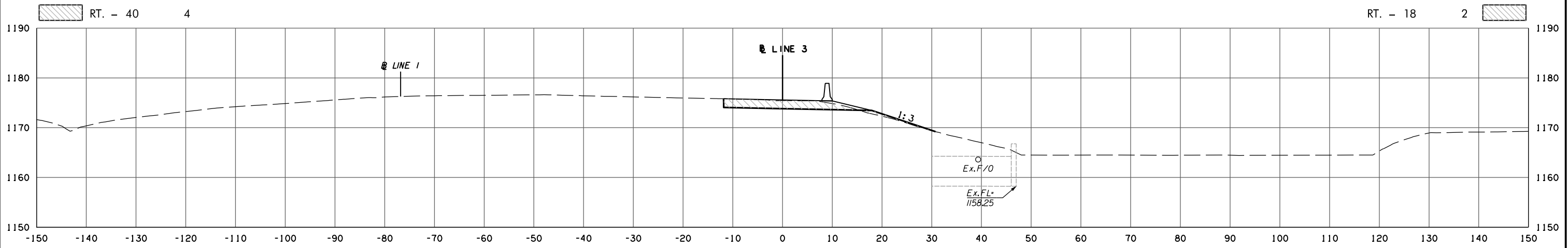
LINE 3

STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X36

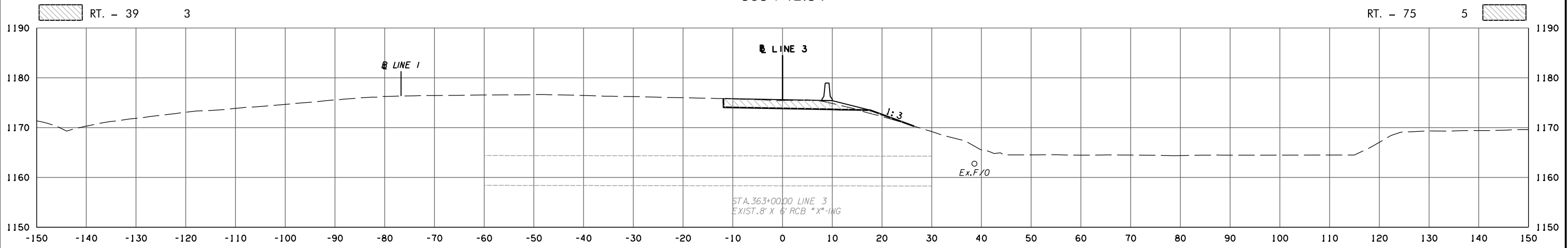
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

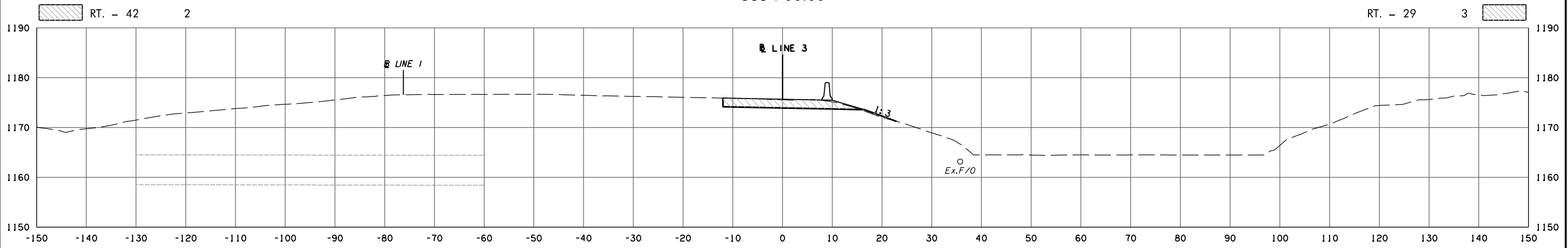
VOLUME
CUT FILL



363 + 12.34



363 + 00.00



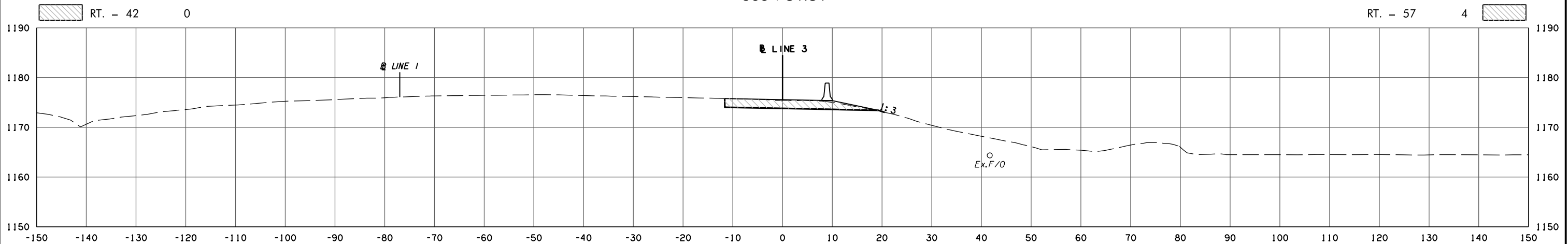
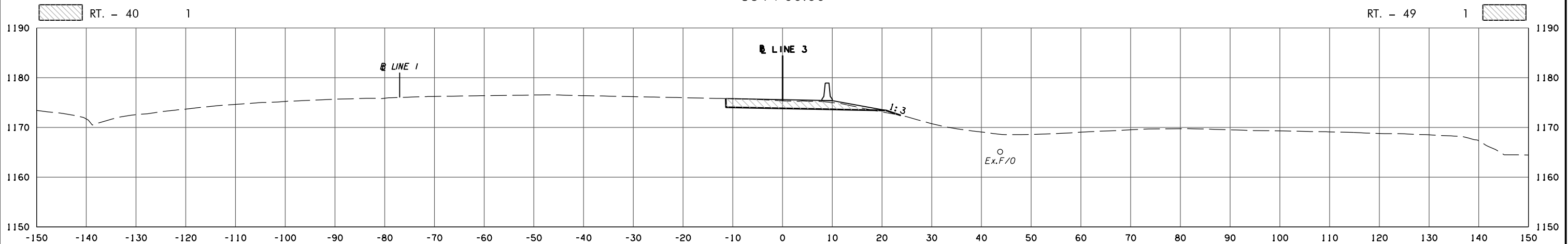
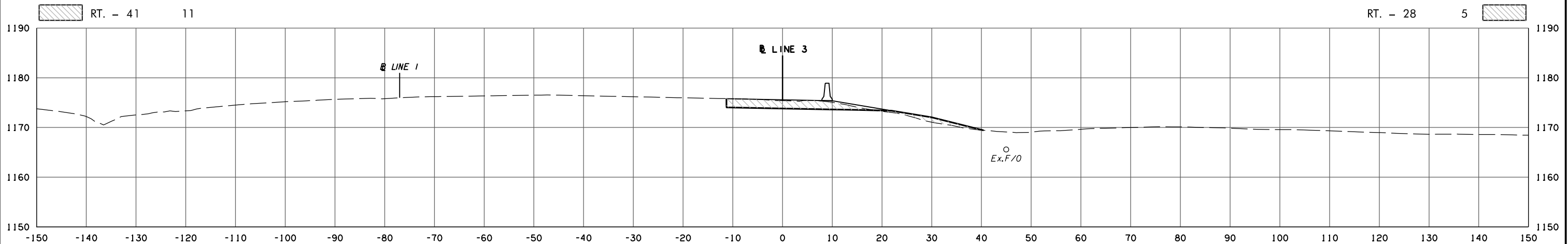
362 + 50.00

9/1/2017 6:43:59 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

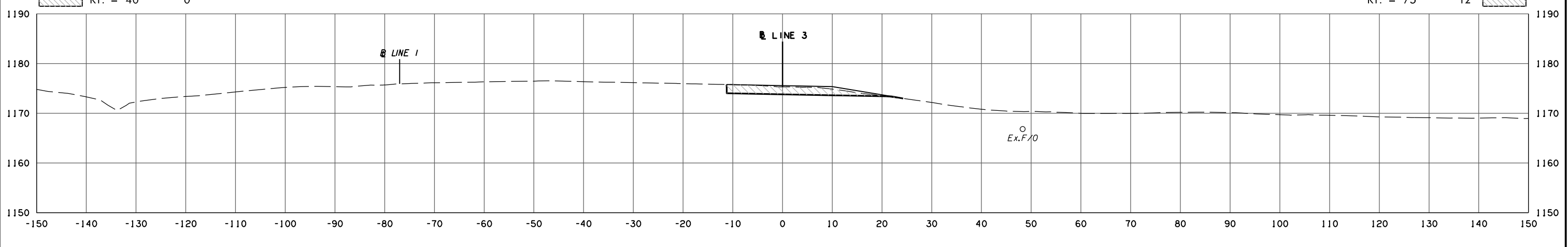
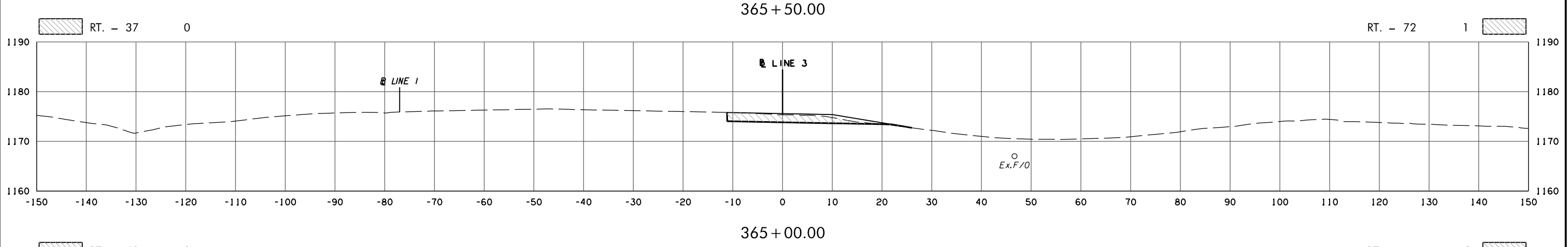
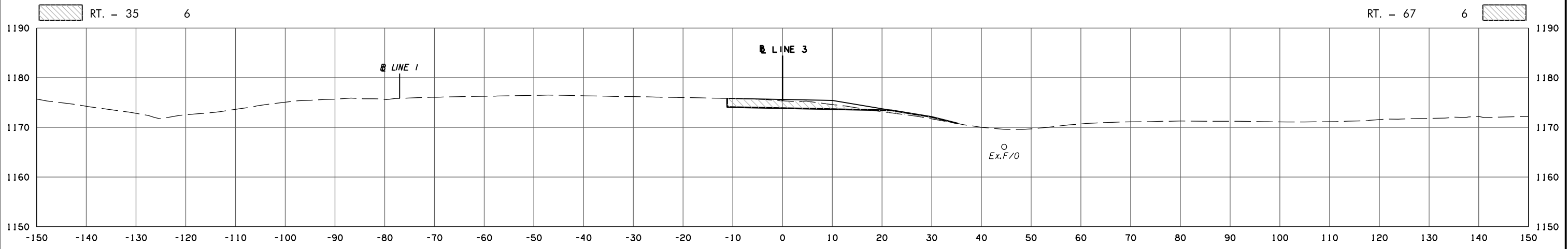


9/1/2017 6:44:00 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

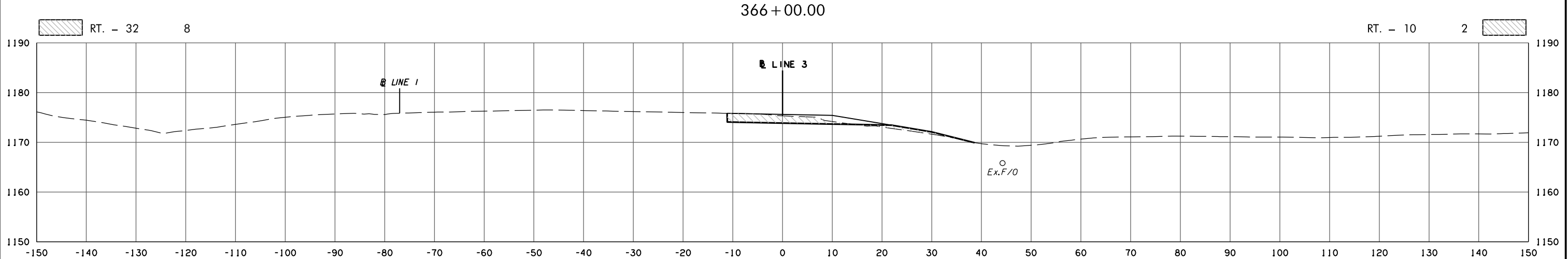
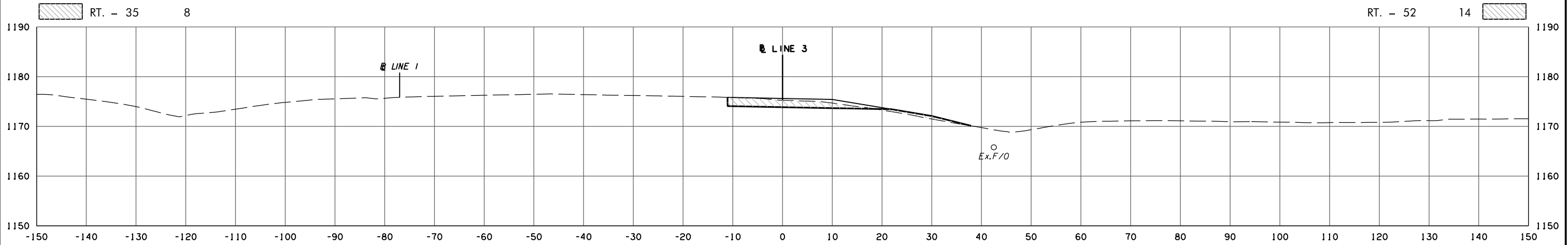
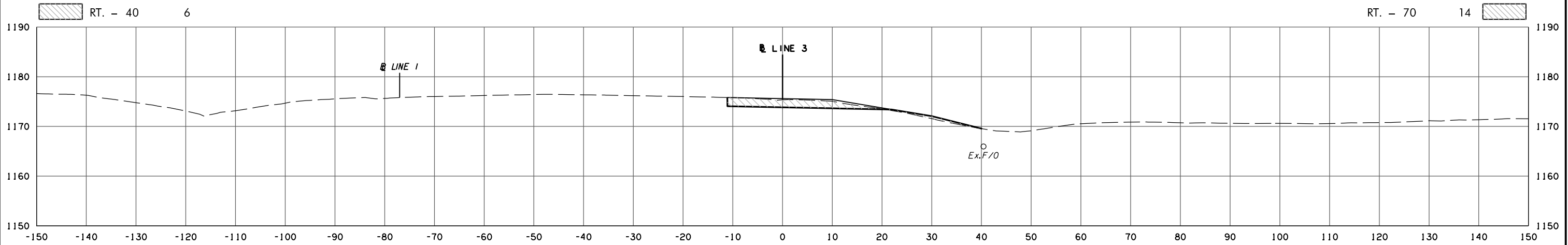


9/1/2017 6:44:00 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

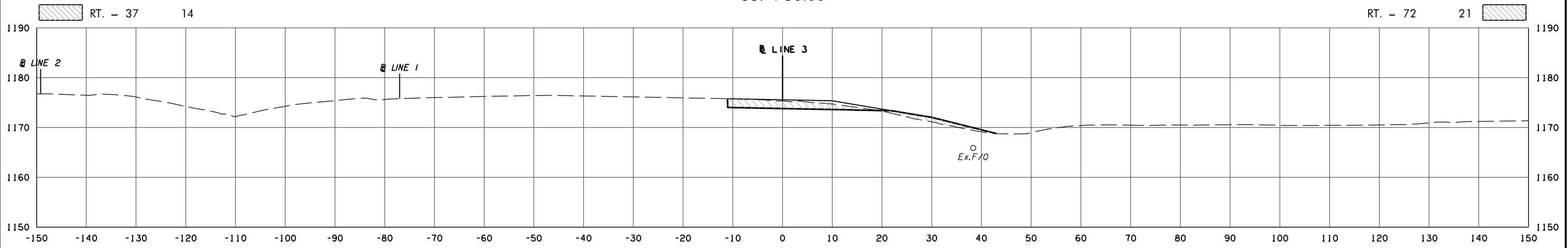
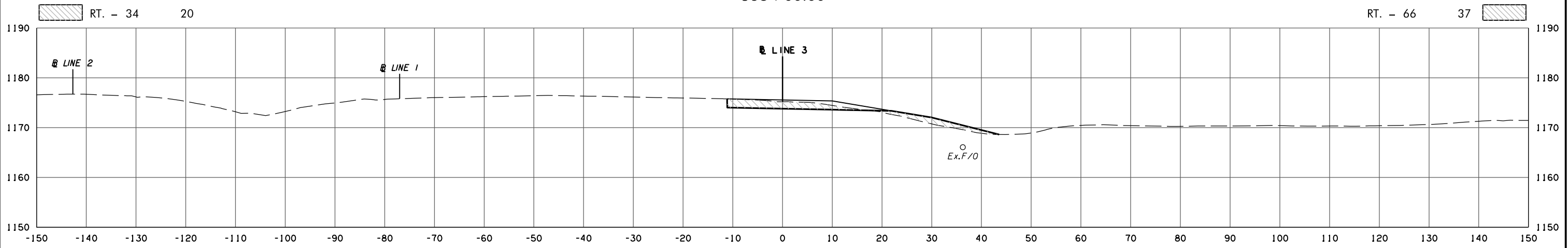
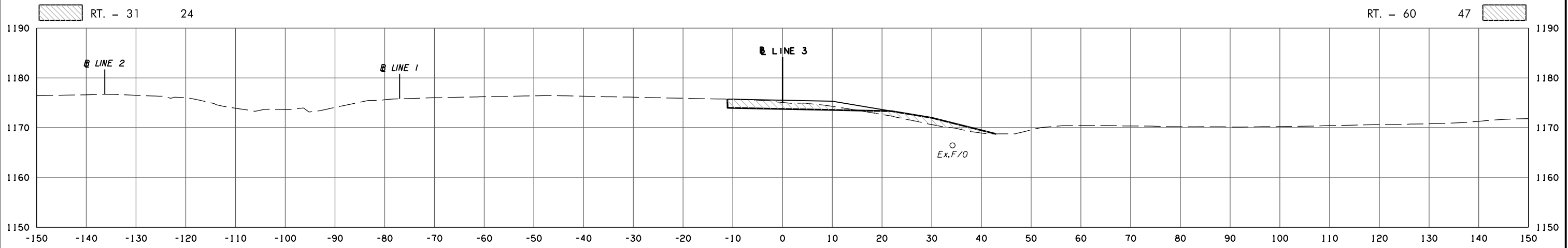


9/1/2017 6:44:02 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\XSections\30444(06)_XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION		REVISIONS	DATE			

AREA
CUT FILL

VOLUME
CUT FILL

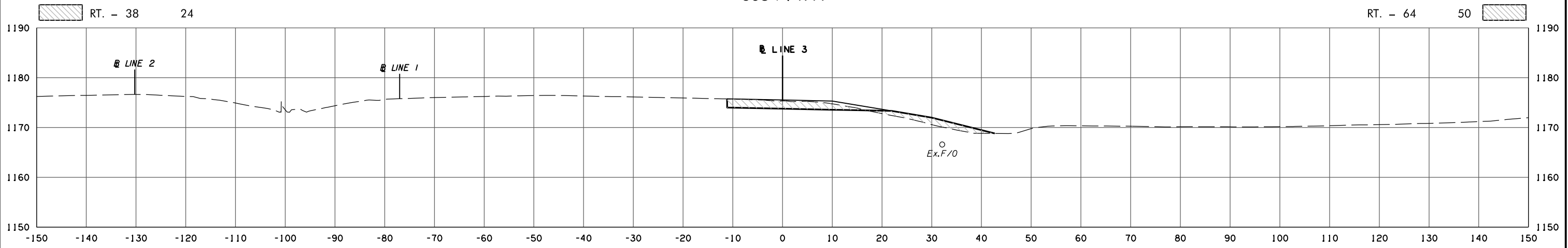
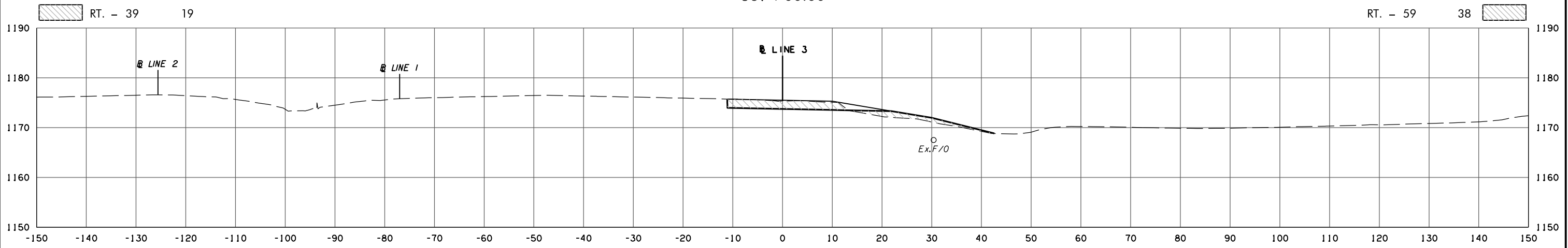
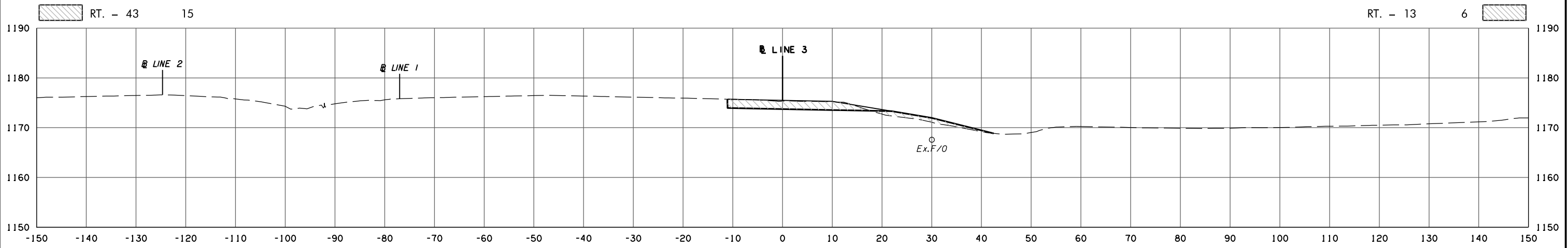


9/1/2017 6:44:02 AM
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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

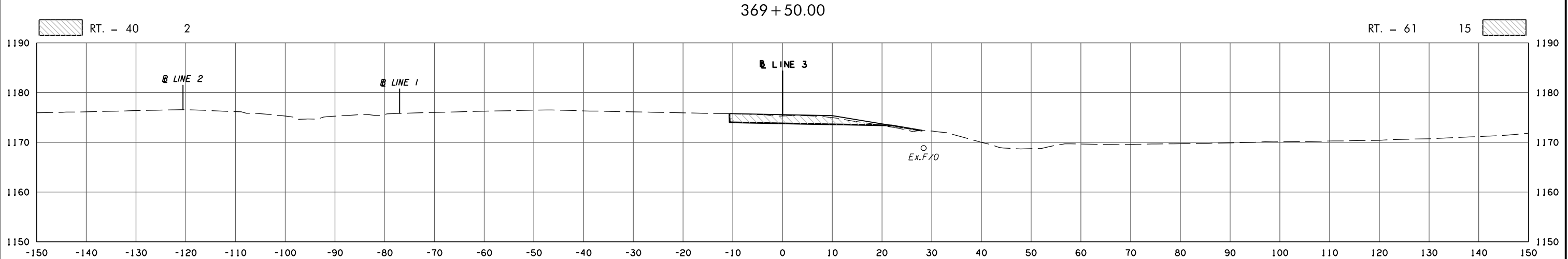
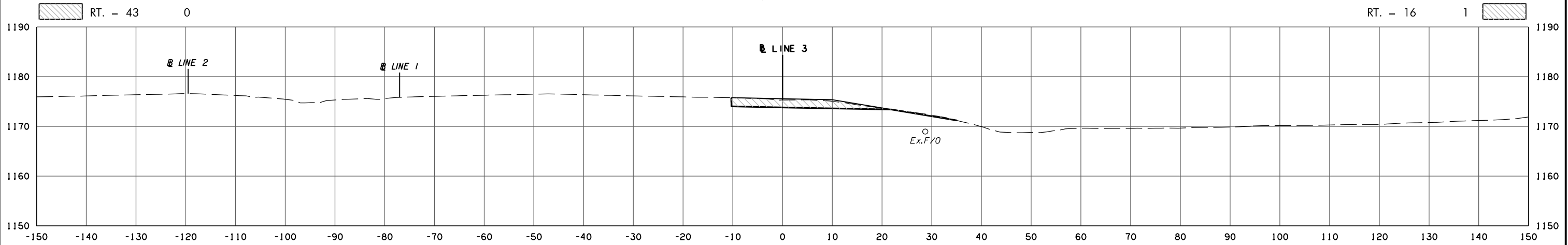
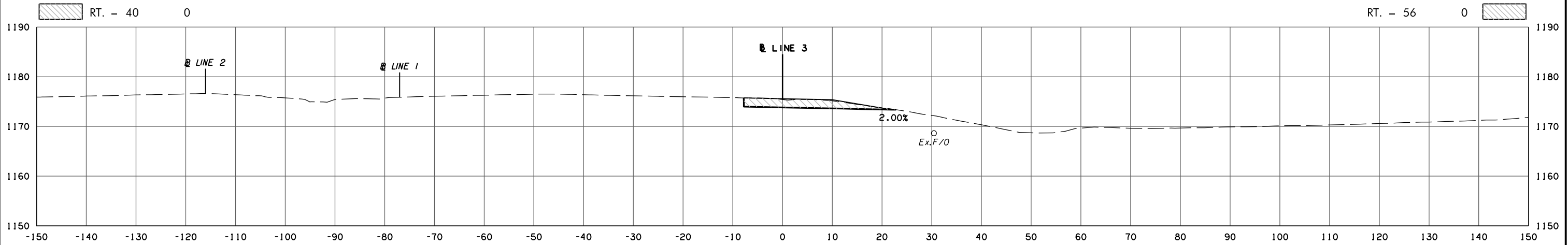


9/1/2017 6:44:03 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

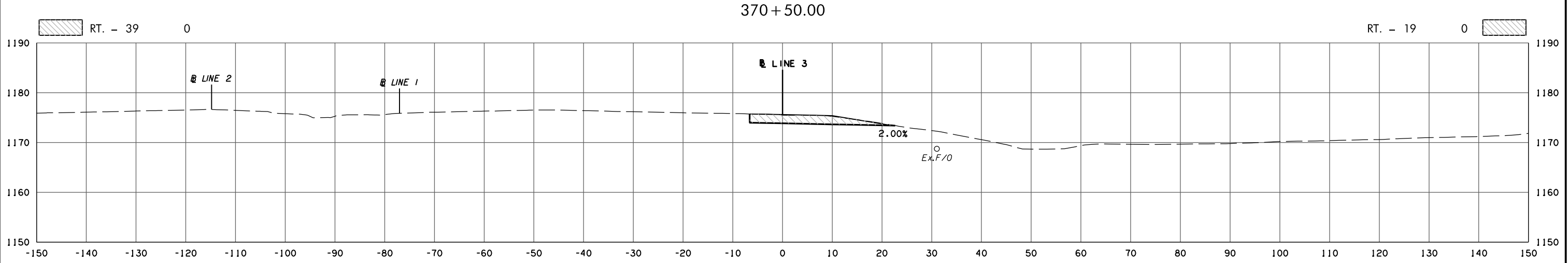
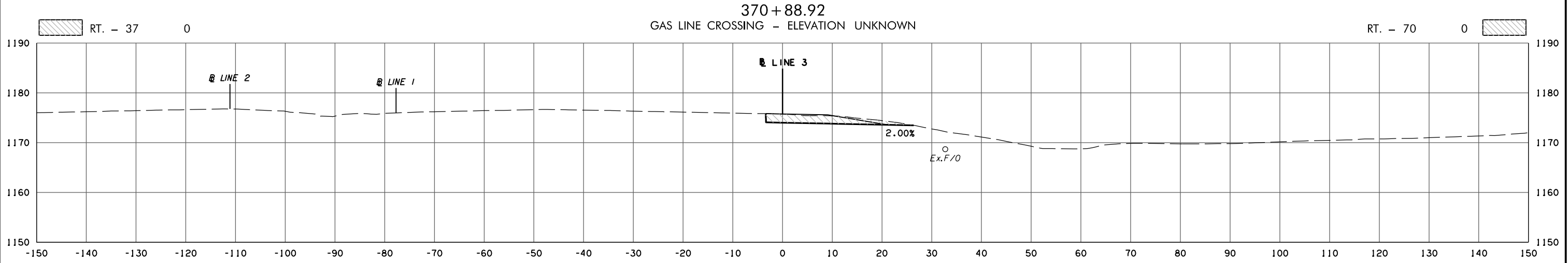
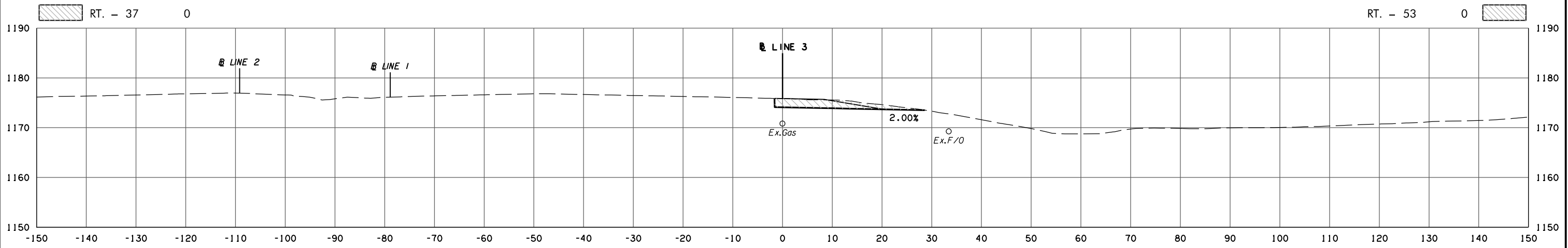


9/1/2017 6:44:04 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

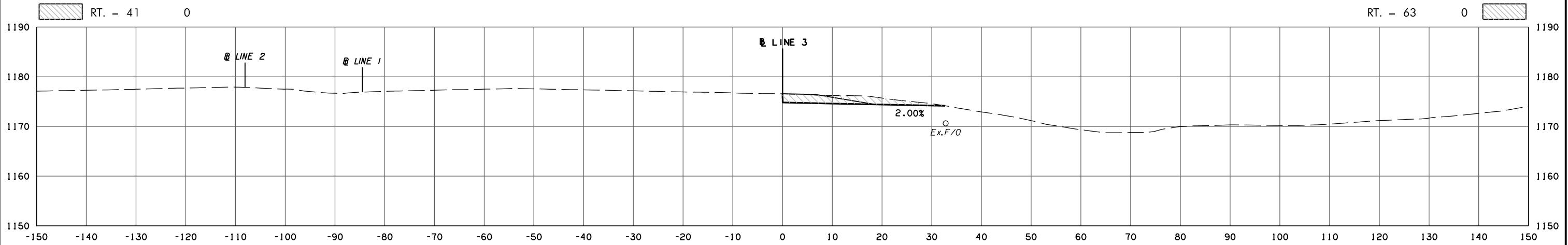


9/1/2017 6:44:05 AM
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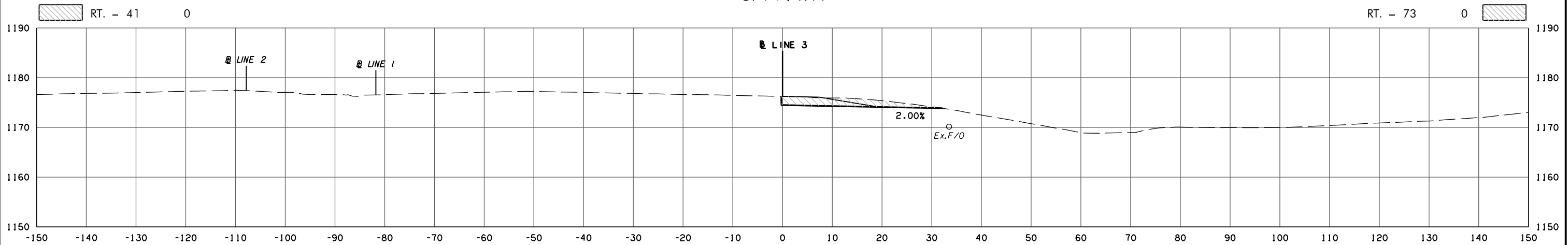
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

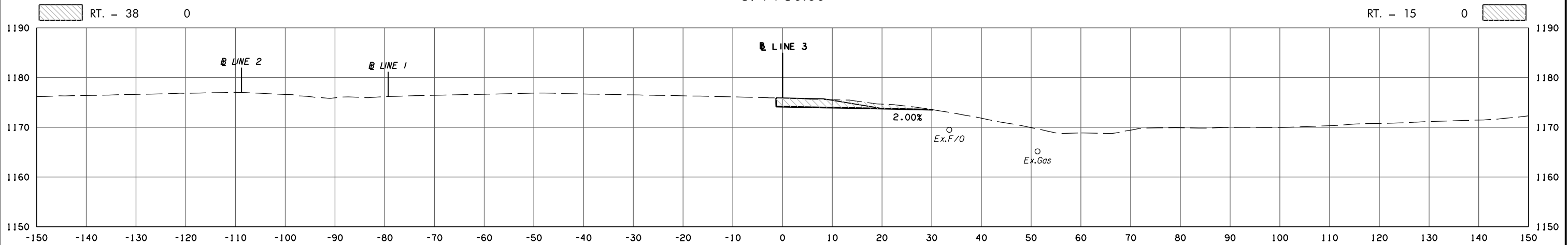
VOLUME
CUT FILL



371+91.11



371+50.00



371+00.00

9/1/2017 6:44:06 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\XSections\30444(06).XSEC.dgn

LINE 3

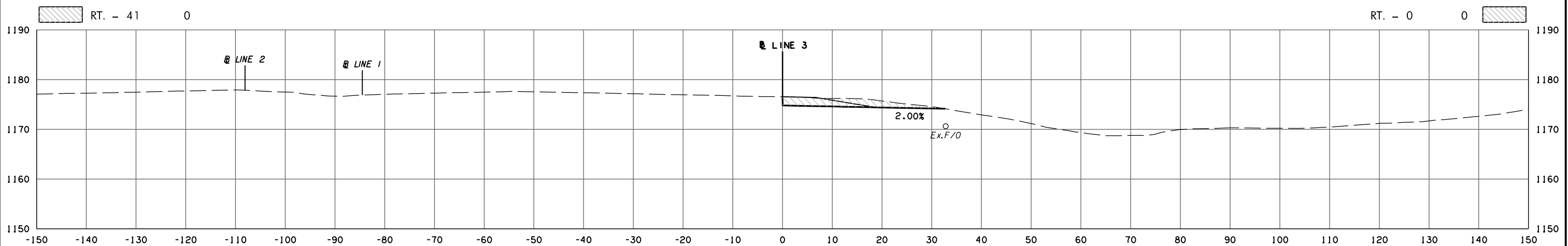
STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X45

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

9/1/2017 6:44:07 AM H:\PROJECTS\20307B_0001_EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn



371+91.11
END LINE 3 CONST.

LINE 3

STATE JOB NO.	30444(06)
OKLAHOMA COUNTY	SHEET NO. X46

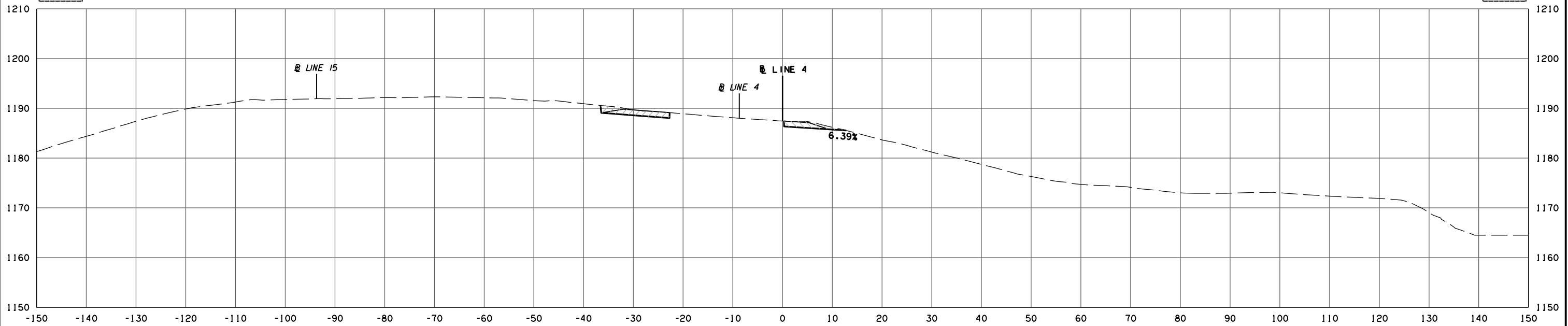
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

LT. - 17 0
RT. - 11 0

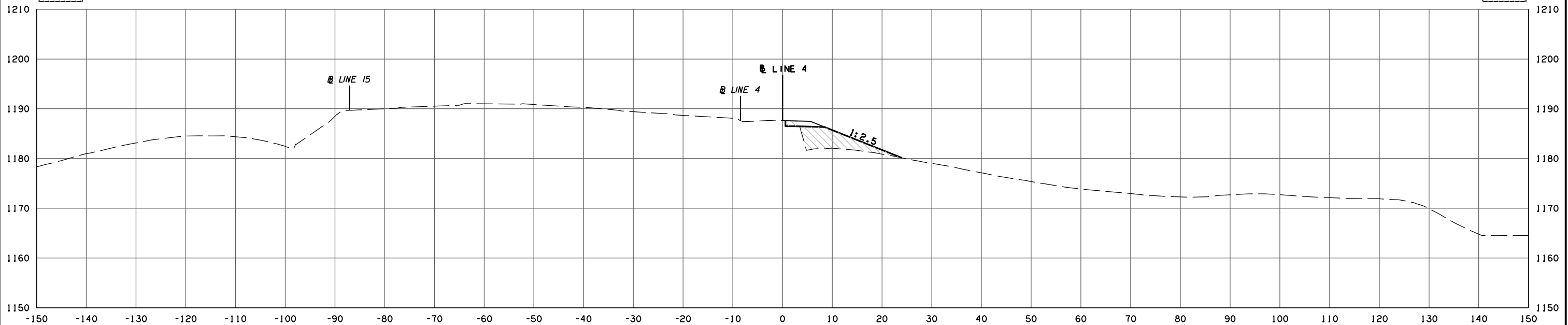
LT. - 7 0
RT. - 6 24



LT. - 0 0
RT. - 3 49

LT. - 0 0
RT. - 0 0

335+00.00



334+76.50
BEGIN LINE 4 CONST.

LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X47

9/1/2017 6:44:08 AM H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\XSections\30444(06).XSEC.dgn

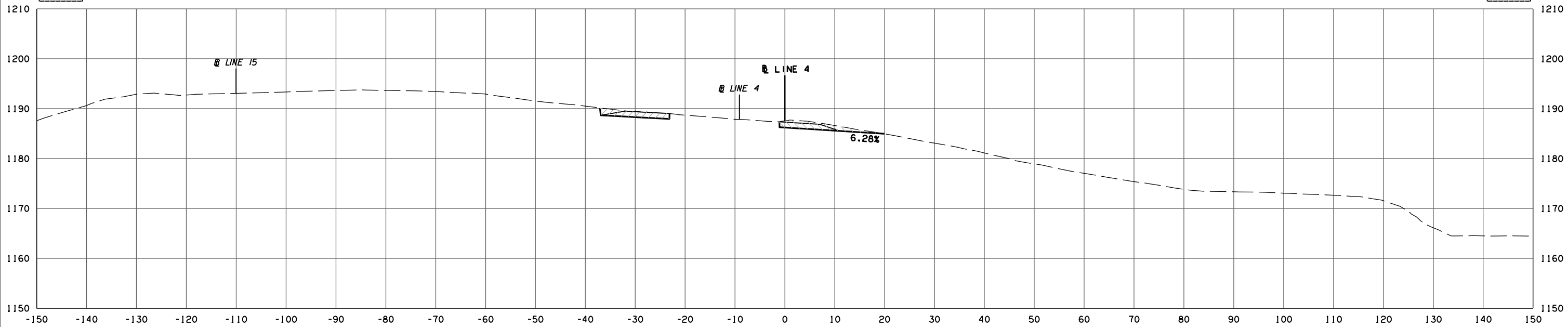
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

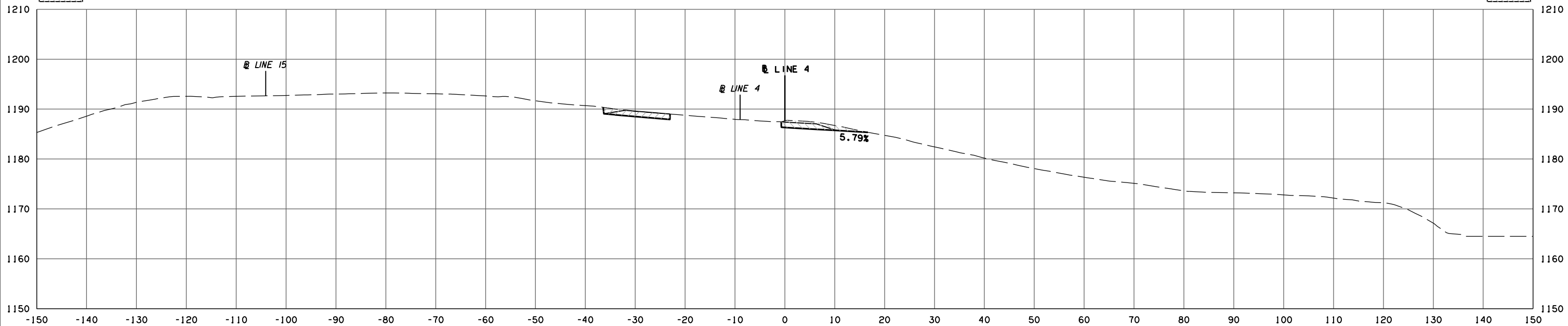
LT. - 16 0
RT. - 20 0

LT. - 10 0
RT. - 12 0



LT. - 15 0
RT. - 18 0

LT. - 19 0
RT. - 17 0



335 + 50.00
SANITARY SEWER CROSSING - ELEVATION UNKNOWN

LINE 4

STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X48

9/1/2017 6:44:05 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\XSections\30444(06)_XSEC.dgn

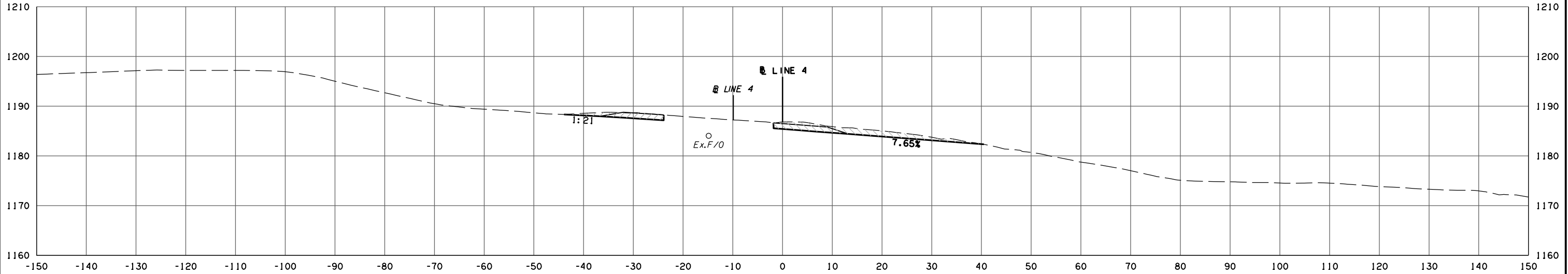
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

LT. - 16 0
RT. - 43 0

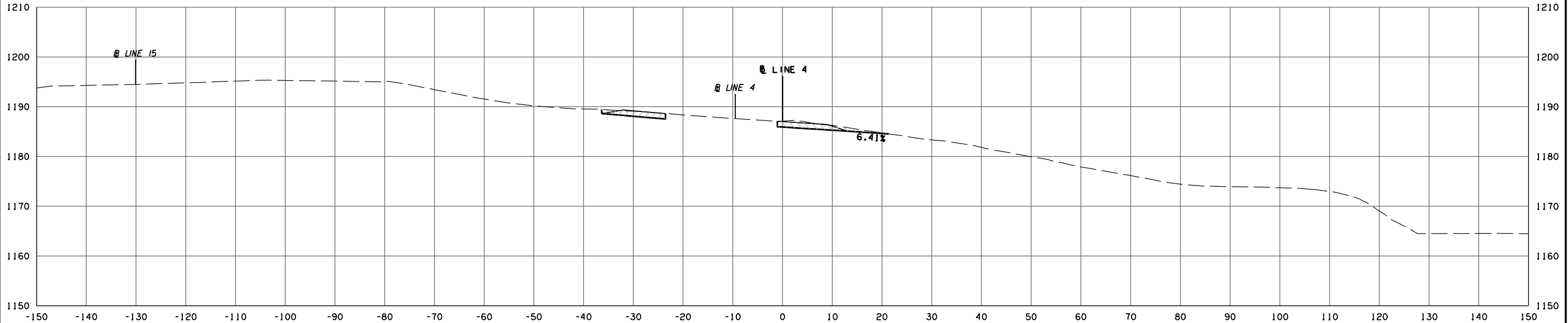
LT. - 26 0
RT. - 57 0



LT. - 13 0
RT. - 19 0

LT. - 27 0
RT. - 36 0

336+50.00
FIBER OPTIC LINE CROSSING (336+51.21) - ELEVATION UNKNOWN



336+00.00

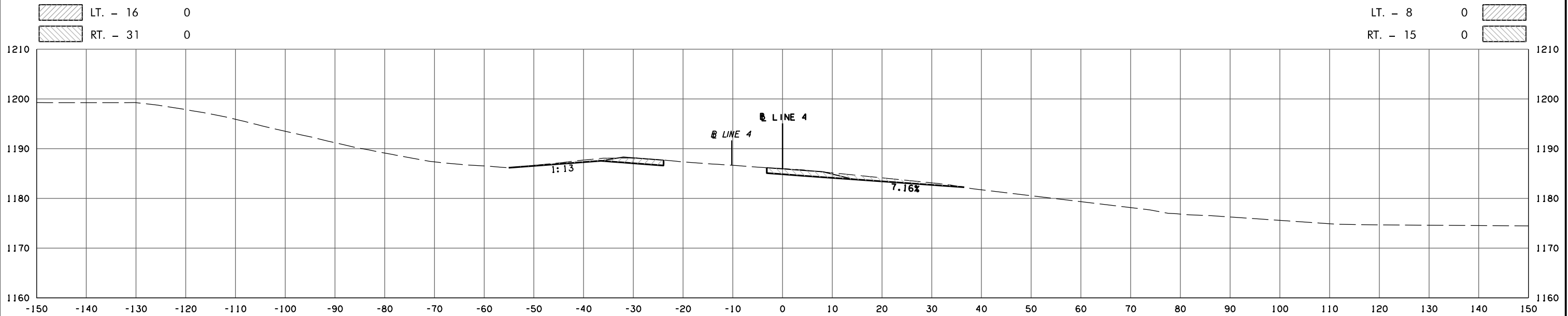
LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X49

9/1/2017 6:44:16 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\XSections\30444(06)_XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



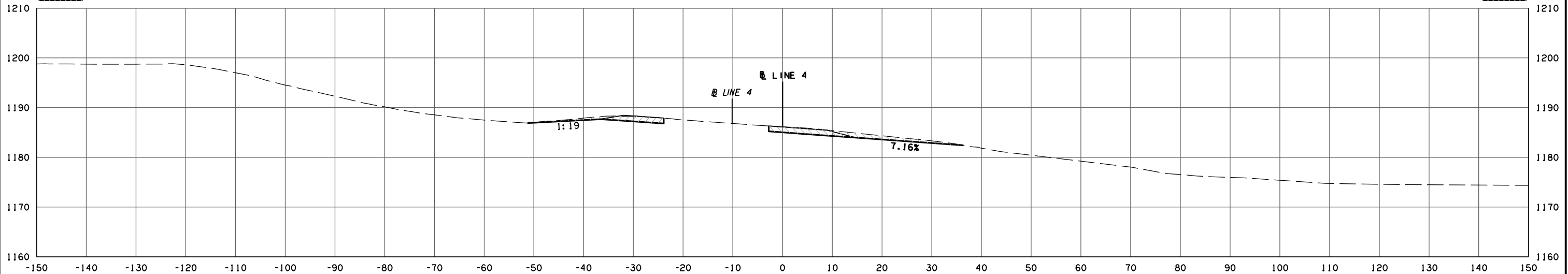
LT. - 16 0
RT. - 31 0

LT. - 8 0
RT. - 15 0

337+00.00

LT. - 16 0
RT. - 31 0

LT. - 22 0
RT. - 51 0



336+87.13

LINE 4

STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X50

9/1/2017 6:44:17 AM H:\PROJECTS\203078_0001_EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

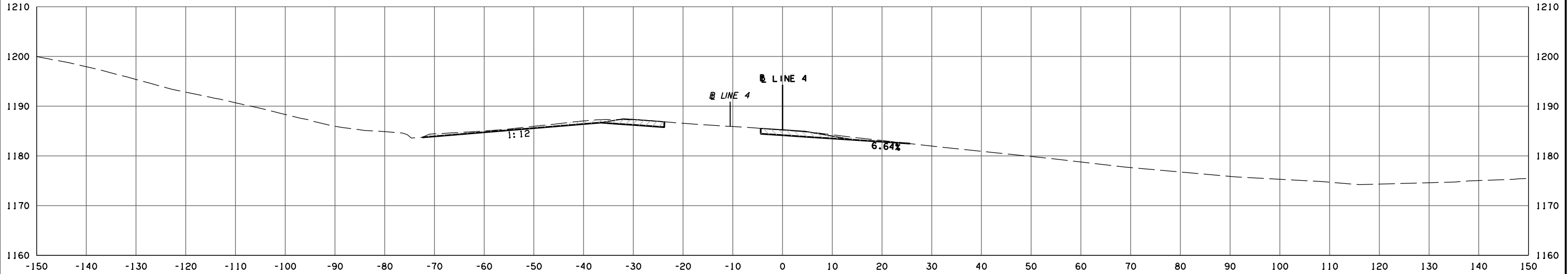
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

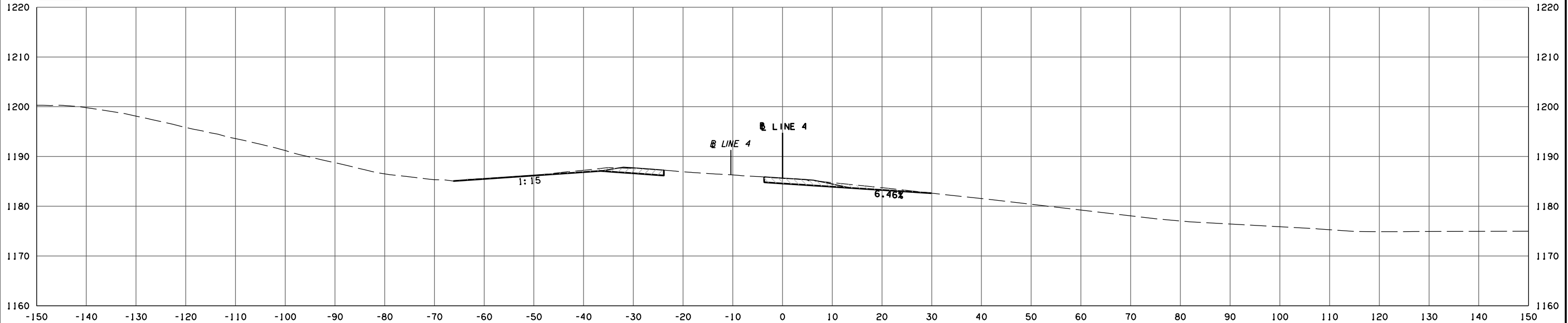
LT. - 27 0
RT. - 20 0

LT. - 20 0
RT. - 19 0



LT. - 17 0
RT. - 23 0

LT. - 16 0
RT. - 25 0



337 + 50.00

337 + 25.66

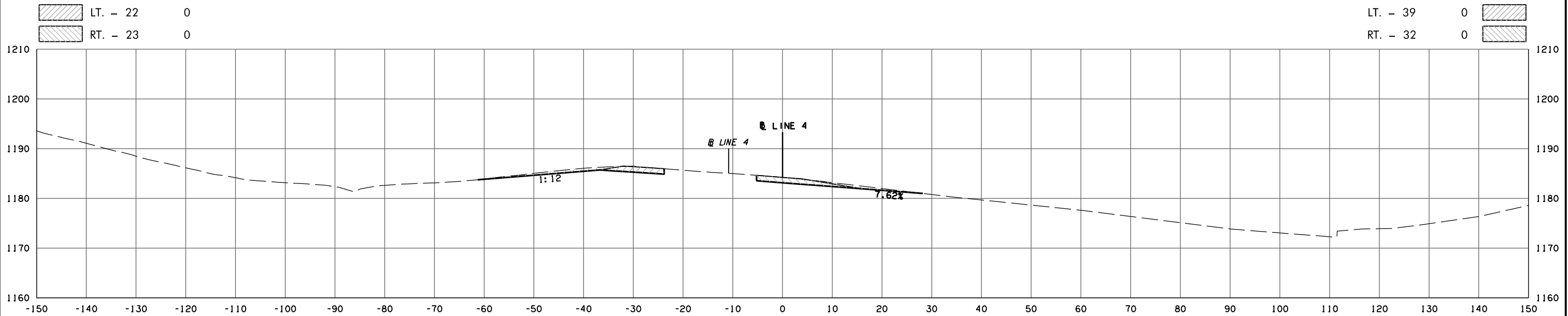
LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X51

9/1/2017 6:44:48 AM H:\PROJECTS\203078_0001_EC-161\Roadway\Drawings\XSections\30444(06)_X51.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

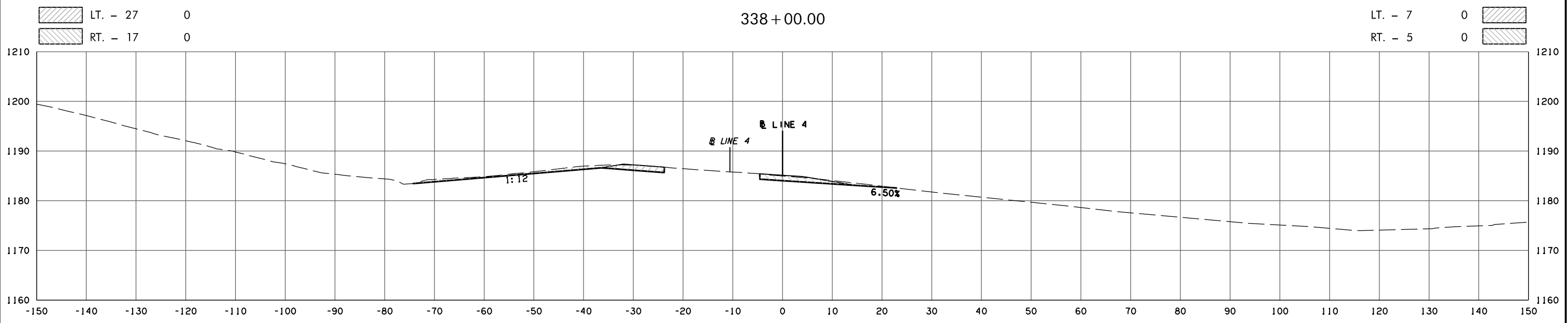
VOLUME
CUT FILL



LT. - 22 0
RT. - 23 0

LT. - 39 0
RT. - 32 0

338+00.00



LT. - 27 0
RT. - 17 0

LT. - 7 0
RT. - 5 0

337+57.13

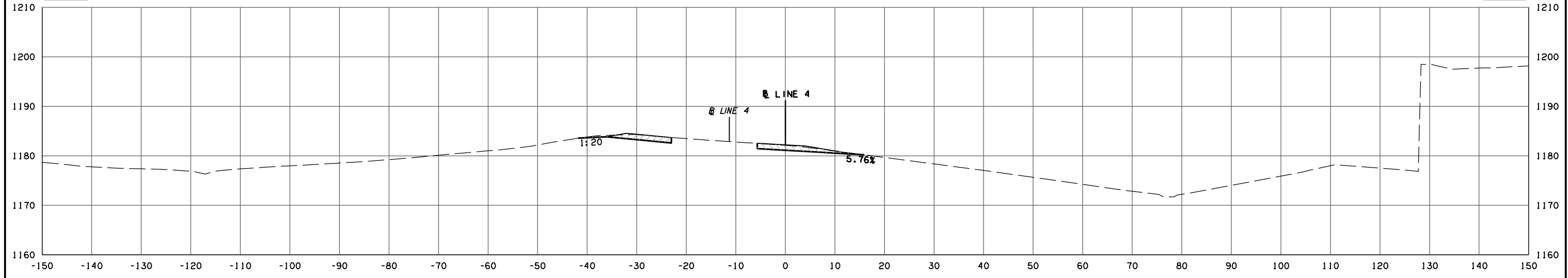
LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X52

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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

LT. - AREA 0
 RT. - RT CUT 15 FILD

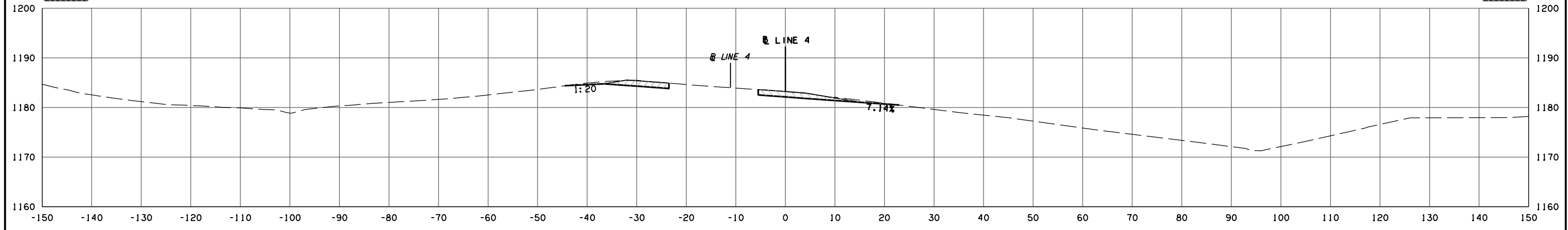
LT. - VOLUME 0
 RT. - RT CUT 31 FILD



LT. - 15 0
 RT. - 19 0

LT. - 15 0
 RT. - 22 0

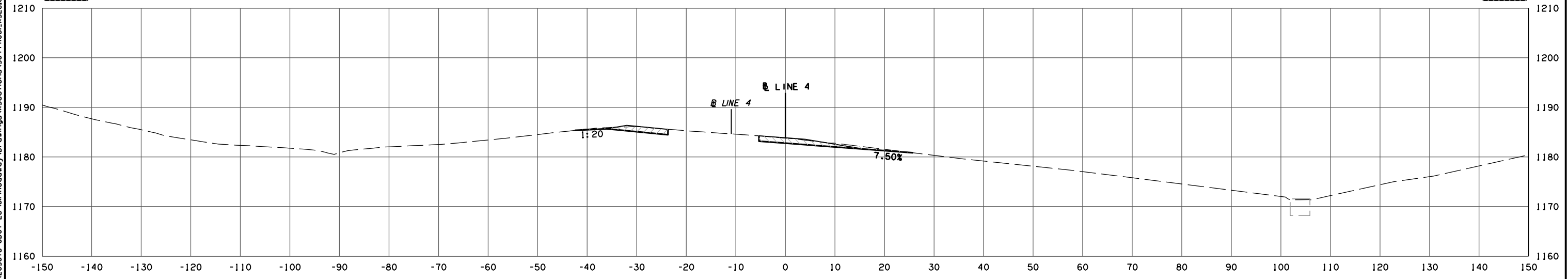
339+00.00



LT. - 12 0
 RT. - 20 0

LT. - 12 0
 RT. - 15 0

338+50.00



338+19.41

LINE 4

STATE JOB NO. 30444(06)
 OKLAHOMA COUNTY SHEET NO. X53

9/1/2017 6:44:20 AM H:\PROJECTS\203078_0001_EC-1611\Roadway\Drawings\XSections\30444(06)_X53.dgn

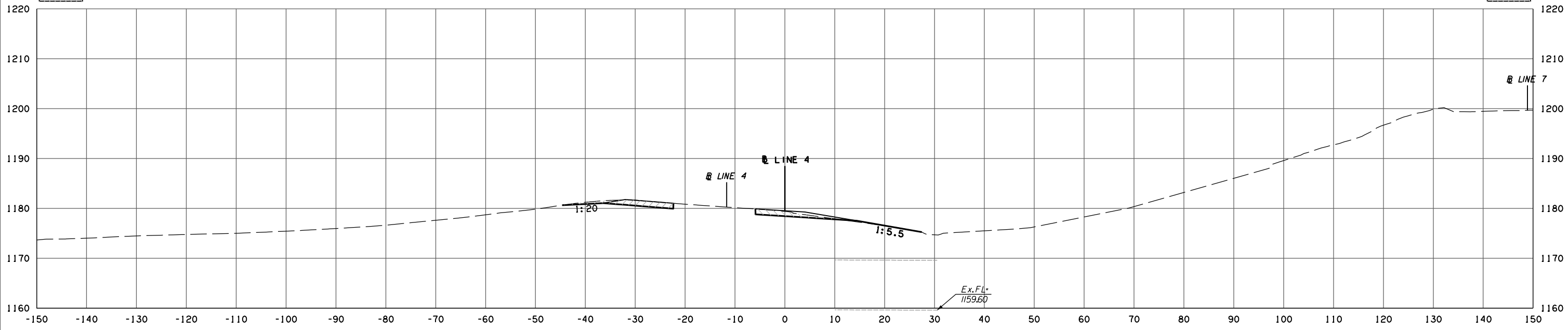
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

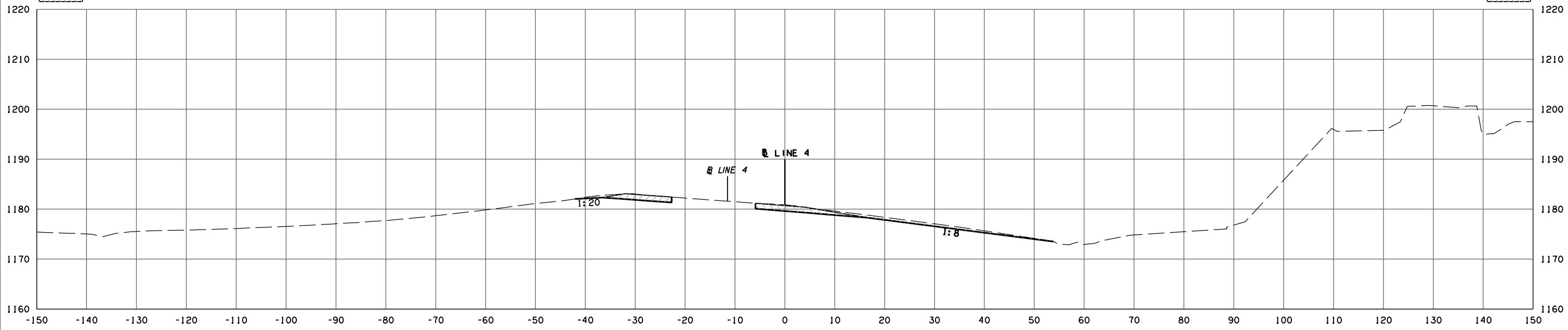
LT. - 16 0
RT. - 11 1

LT. - 29 0
RT. - 43 1



LT. - 15 0
RT. - 36 0

LT. - 26 0
RT. - 47 0



340+00.00

339+50.00

LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X54

9/1/2017 6:44:21 AM H:\PROJECTS\203078_0001_EC-161\Roadway\Drawings\XSections\30444(06)_X54.dgn

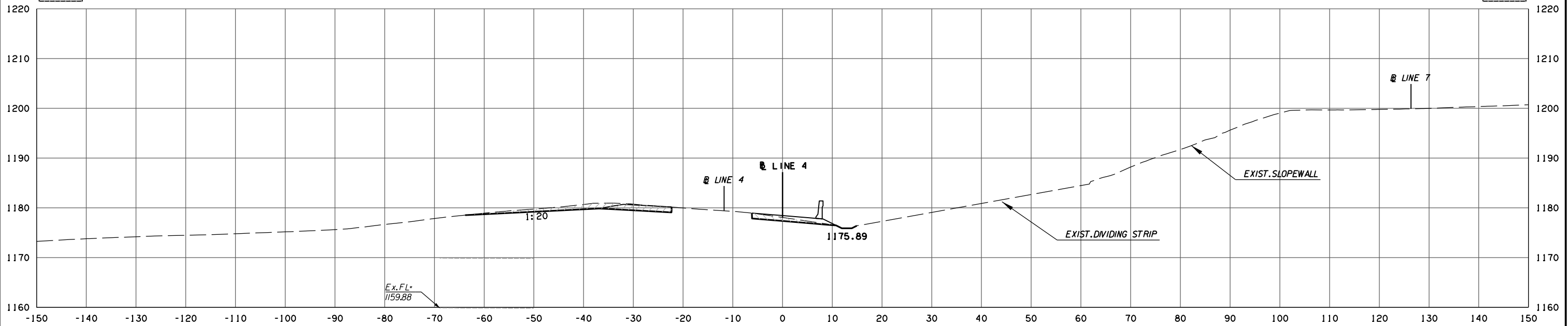
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

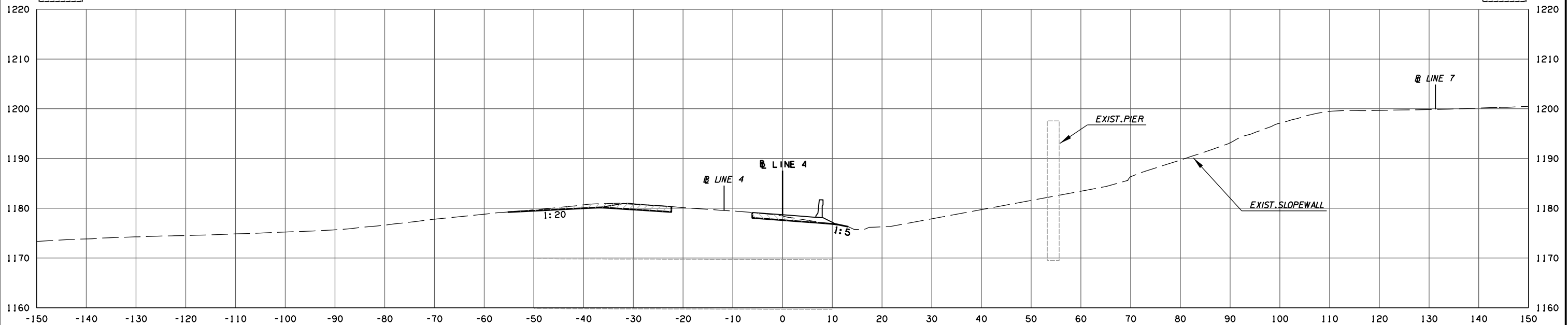
LT. - 32 0
RT. - 10 2

LT. - 8 0
RT. - 3 1



LT. - 22 0
RT. - 10 2

LT. - 21 0
RT. - 12 2



340+38.00

340+30.00

LINE 4

STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X55

9/1/2017 6:44:22 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

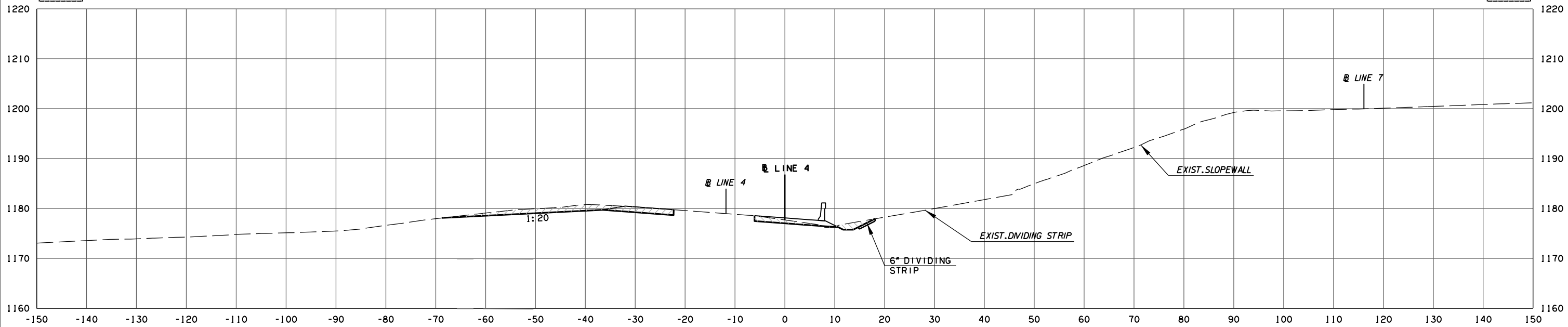
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

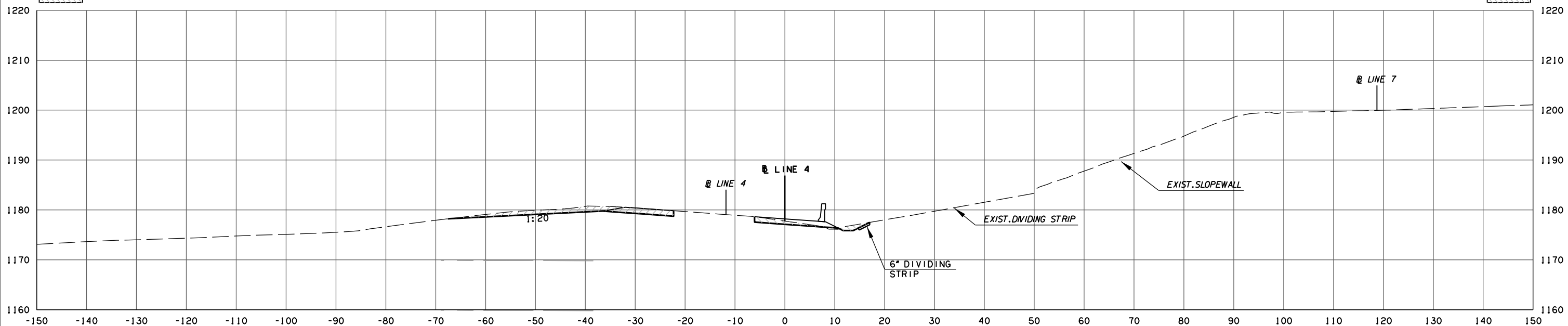
LT. - 39 0
RT. - 15 2

LT. - 6 0
RT. - 2 0



LT. - 36 0
RT. - 12 3

LT. - 15 0
RT. - 5 1



340+53.95

340+50.00

LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X56

9/1/2017 6:44:22 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

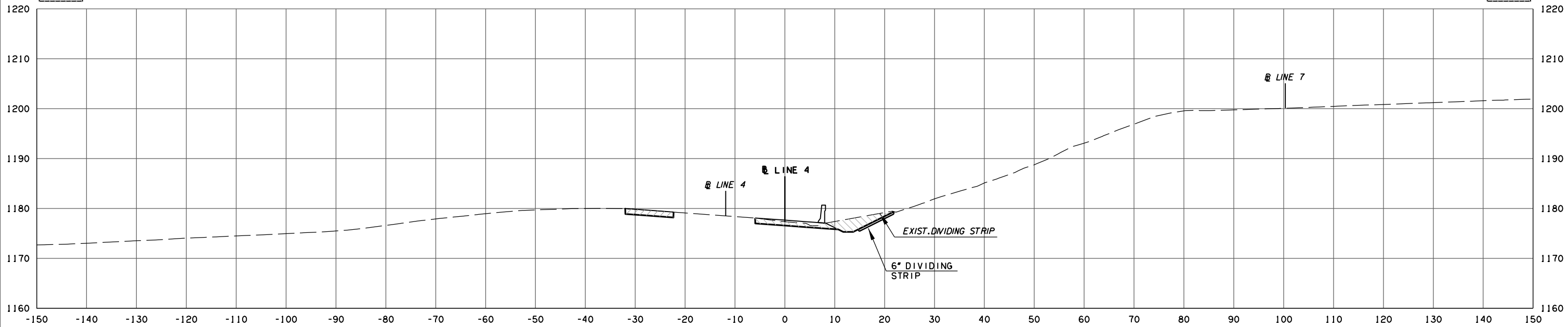
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

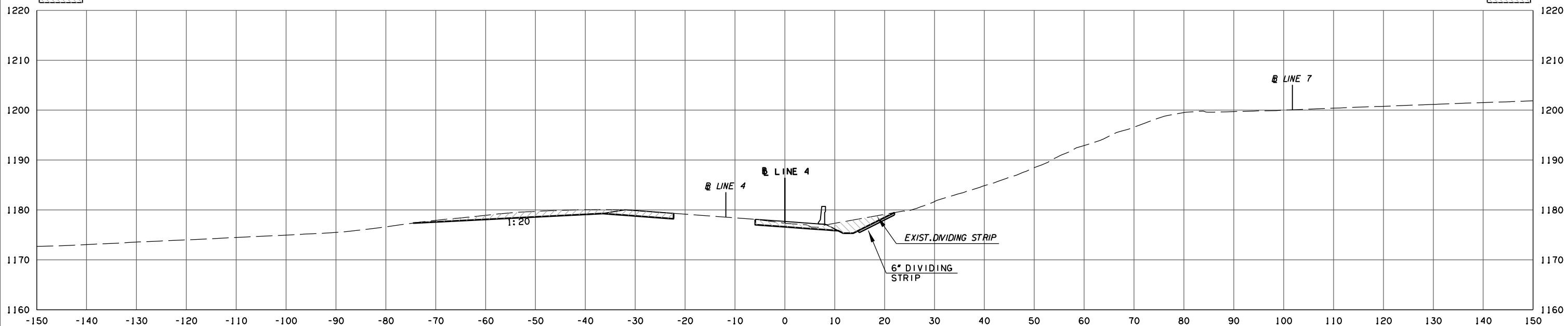
LT. - 10 0
RT. - 33 1

LT. - 2 0
RT. - 2 0



LT. - 45 0
RT. - 32 1

LT. - 32 0
RT. - 18 2



340+76.35

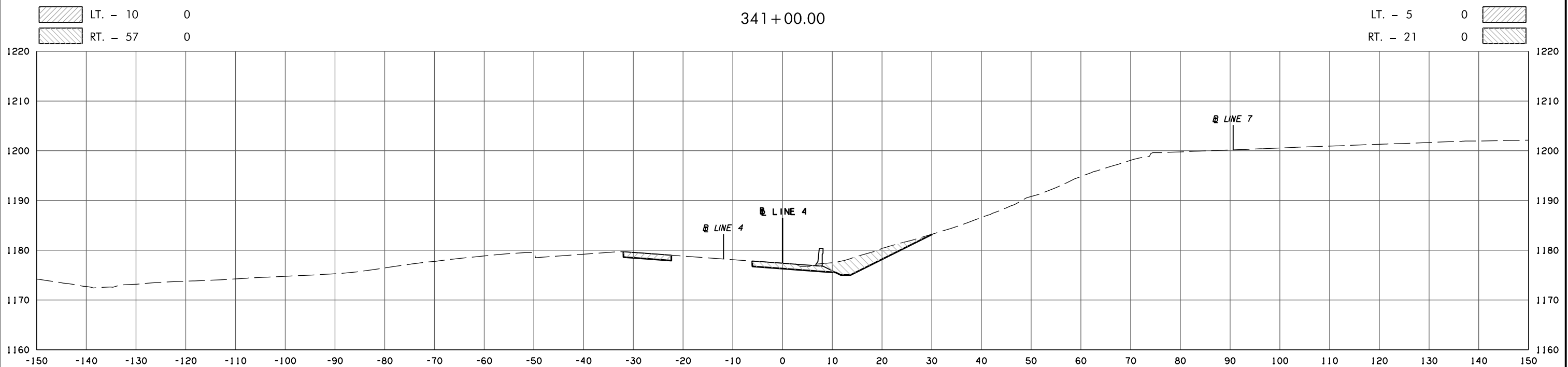
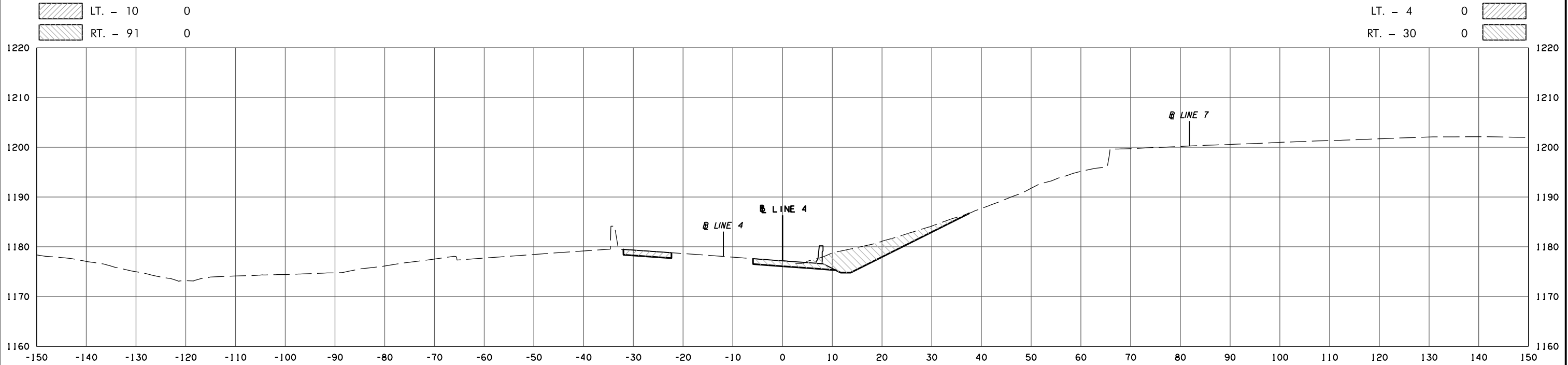
340+74.42

9/1/2017 6:44:23 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



9/1/2017 6:44:24 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

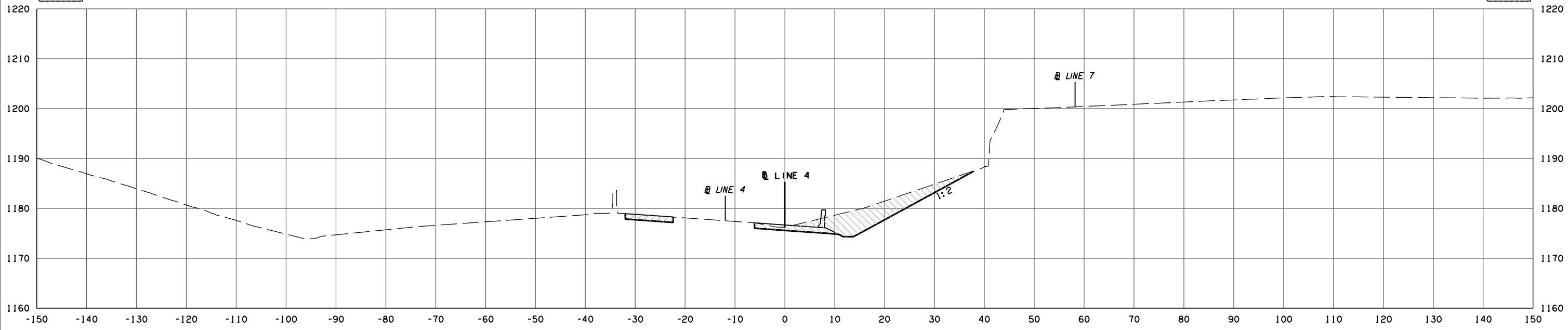
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

LT. - 10 0
RT. - 107 0

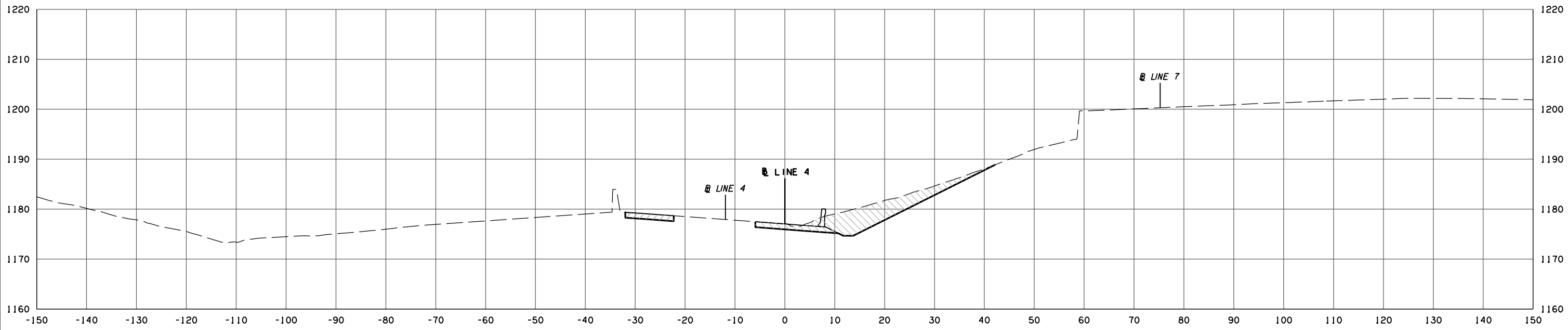
LT. - 7 0
RT. - 77 0



LT. - 10 0
RT. - 113 0

LT. - 3 0
RT. - 30 0

341+26.81



341+07.84

LINE 4

STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X59

9/1/2017 6:44:25 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

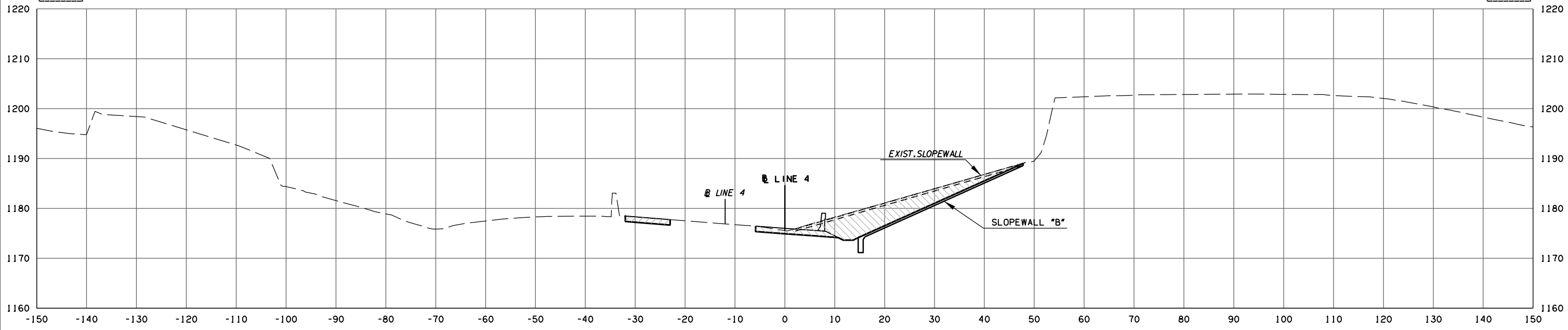
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

LT. - 10 0
RT. - 144 0

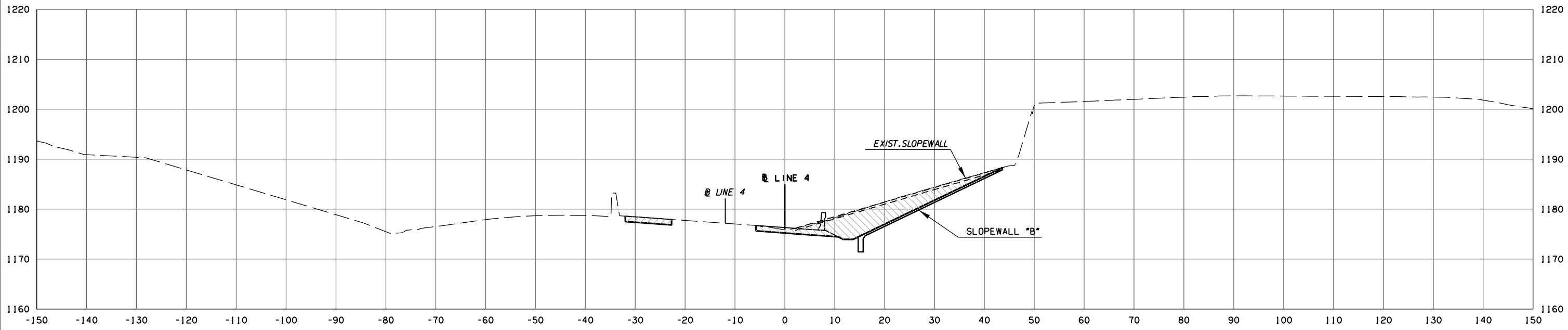
LT. - 6 0
RT. - 83 0



LT. - 10 0
RT. - 130 0

LT. - 9 0
RT. - 102 0

341+66.34



341+50.00

LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X60

9/1/2017 6:44:26 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

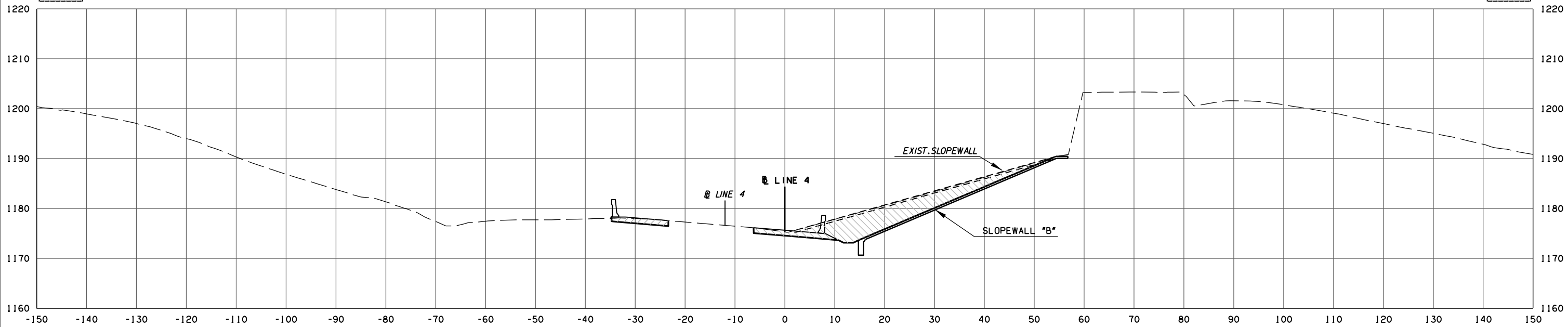
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

LT. - 11 1
RT. - 162 0

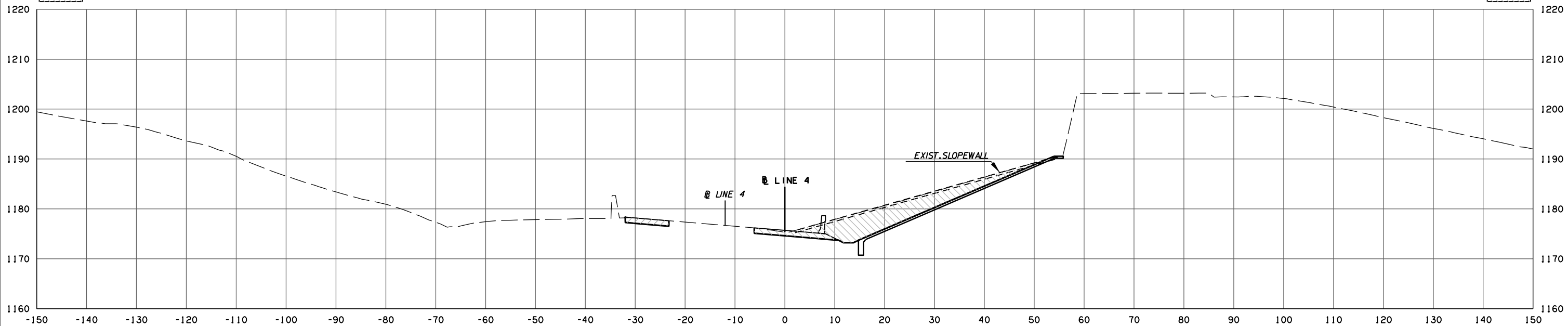
LT. - 2 0
RT. - 32 0



LT. - 9 0
RT. - 158 0

LT. - 7 0
RT. - 111 0

341+91.56



341+86.21

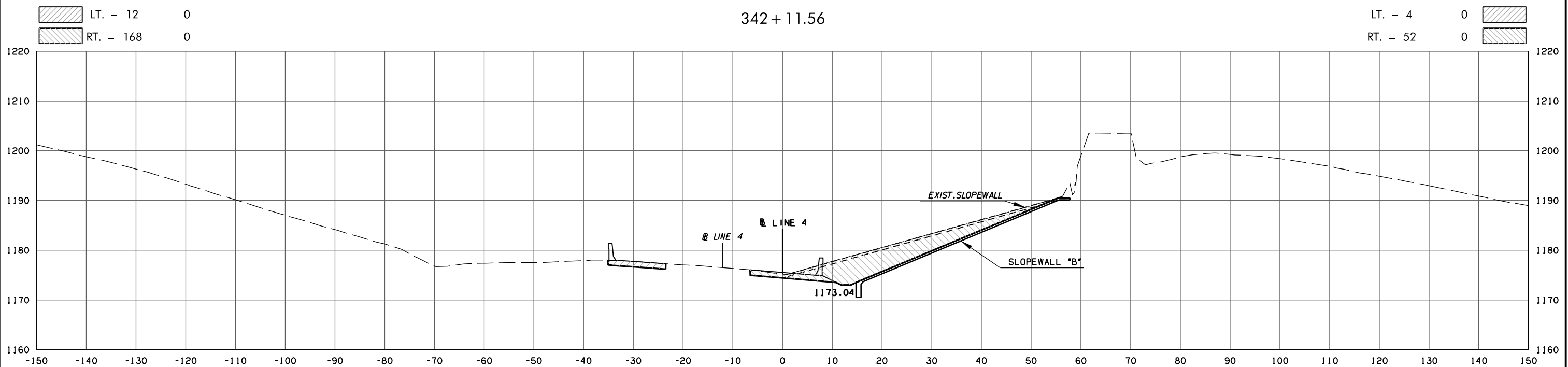
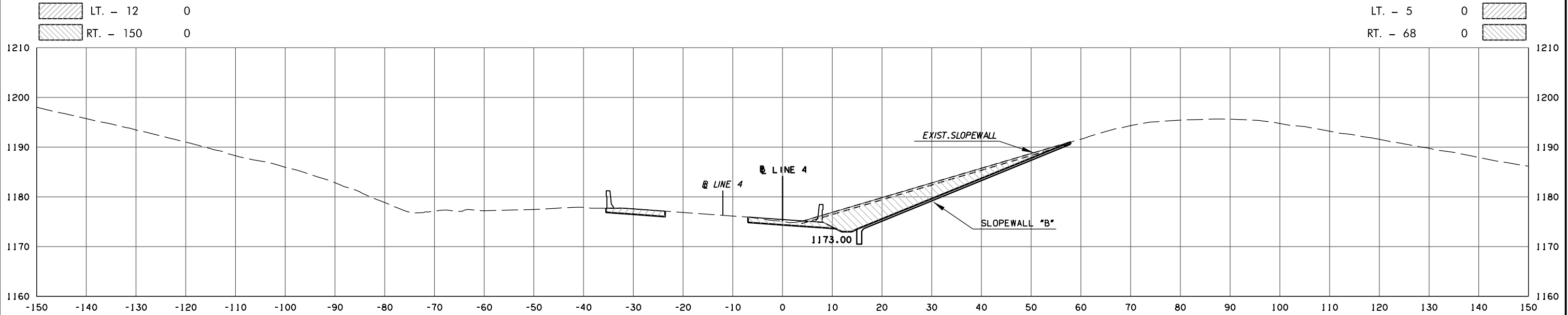
LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X61

9/1/2017 6:44:27 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



9/1/2017 6:44:28 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

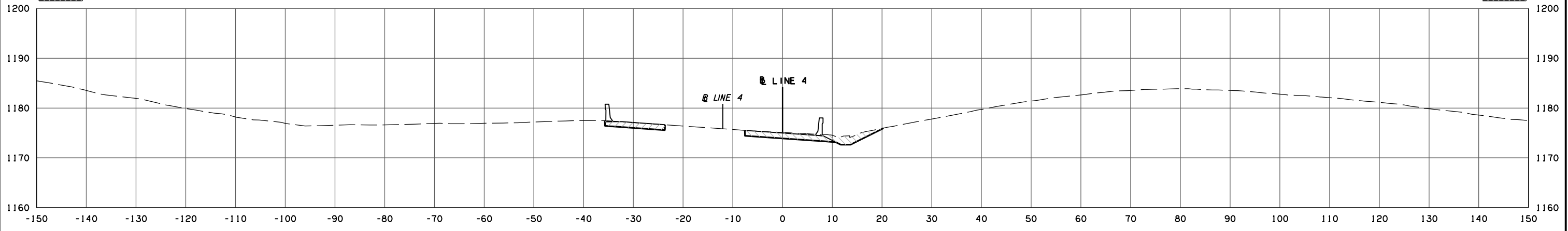
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

	LT. - 13	0
	RT. - 33	0

VOLUME
CUT FILL

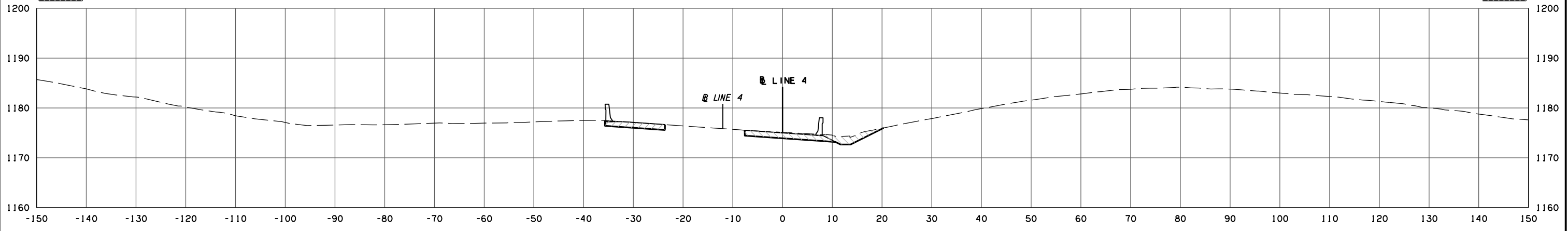
	LT. - 0	0
	RT. - 1	0



	LT. - 13	0
	RT. - 33	0

342 + 50.75

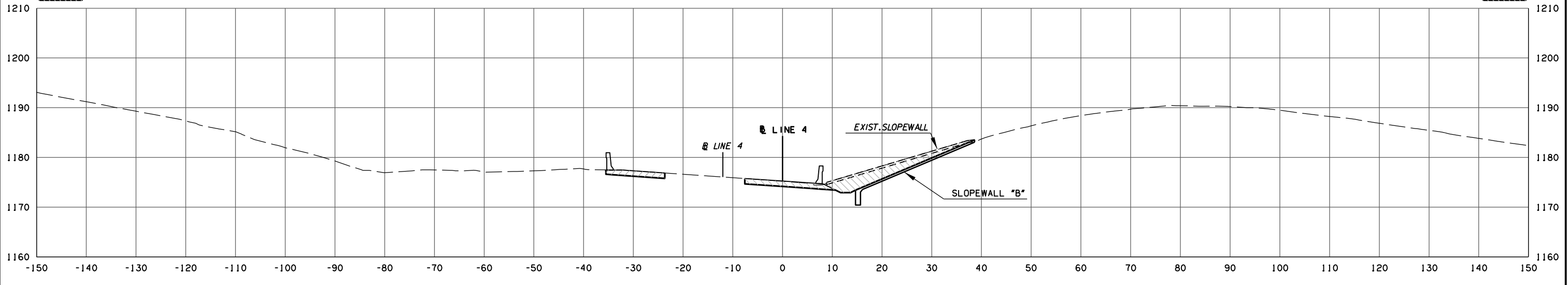
	LT. - 11	0
	RT. - 44	1



	LT. - 13	0
	RT. - 74	1

342 + 50.00

	LT. - 8	0
	RT. - 68	0



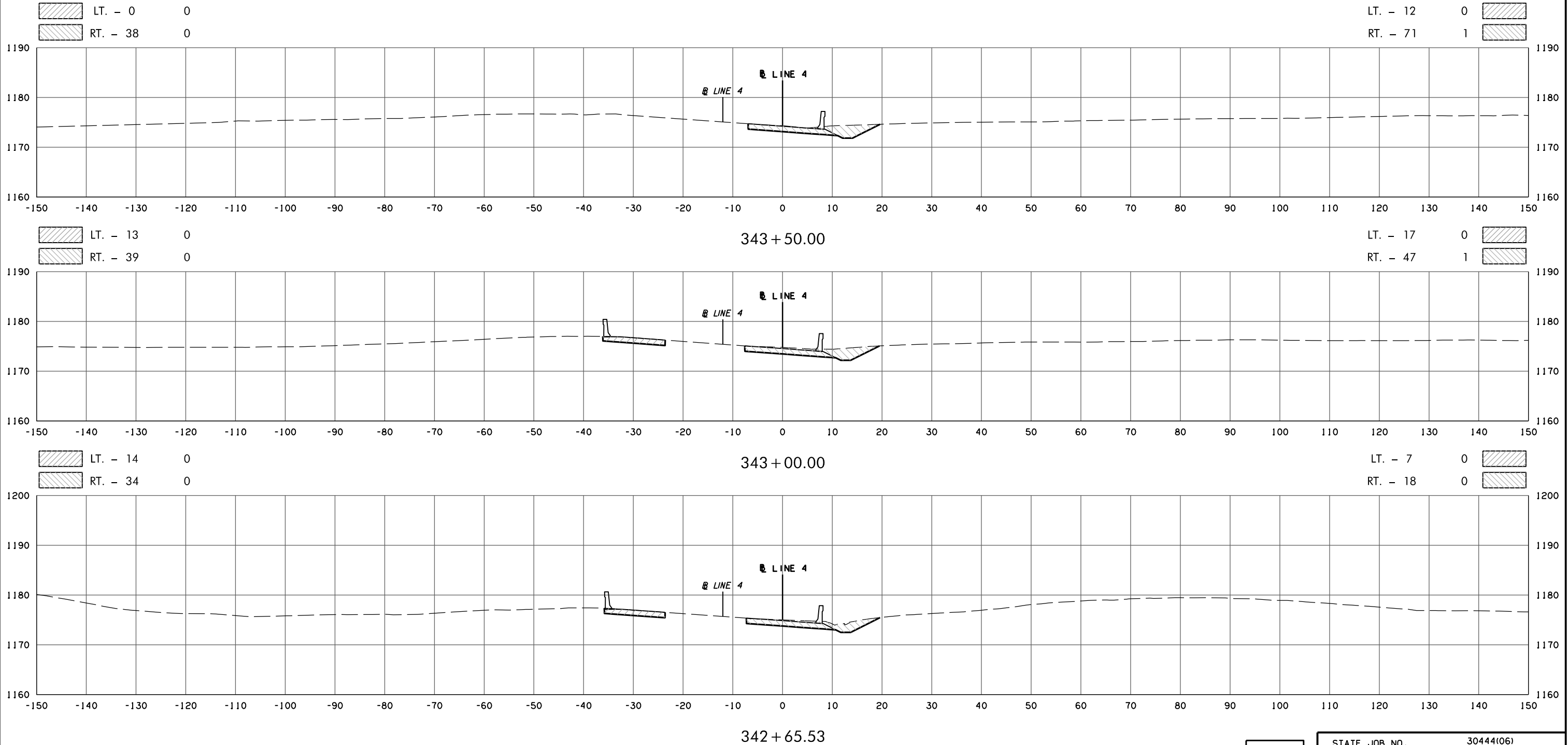
342 + 27.90

9/1/2017 6:44:29 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

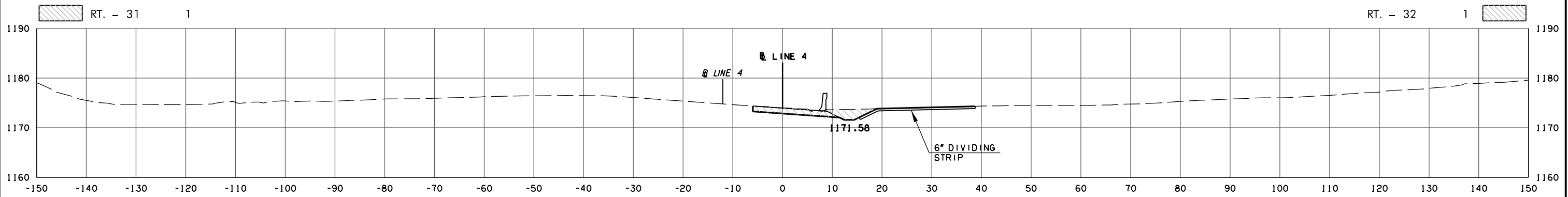


9/1/2017 6:44:30 AM H:\PROJECTS\203078_0001_EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

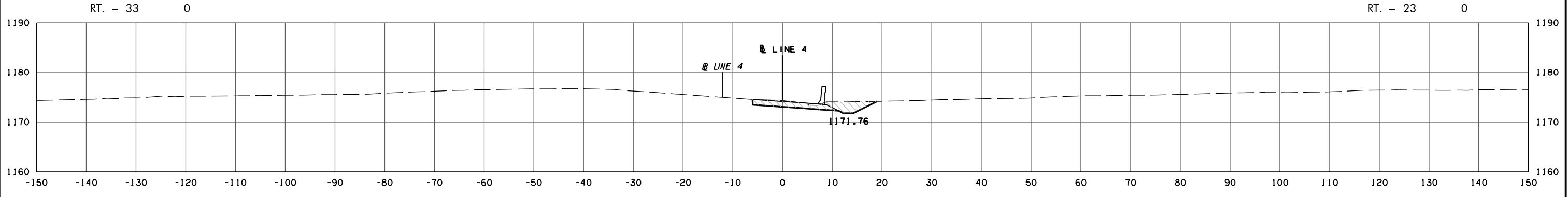
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

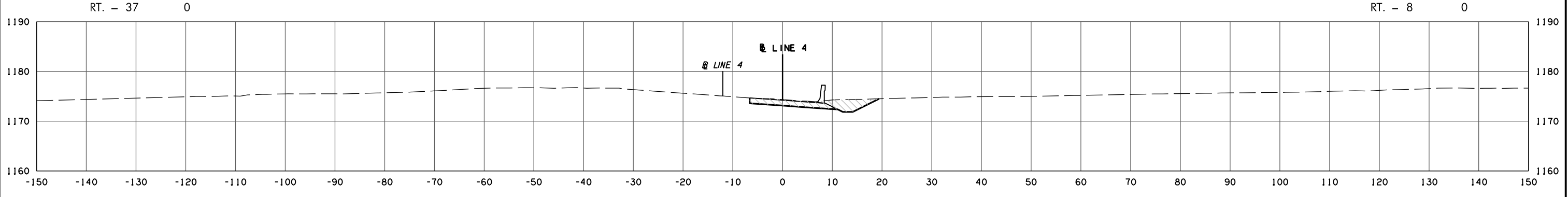
VOLUME
CUT FILL



344 + 00.00



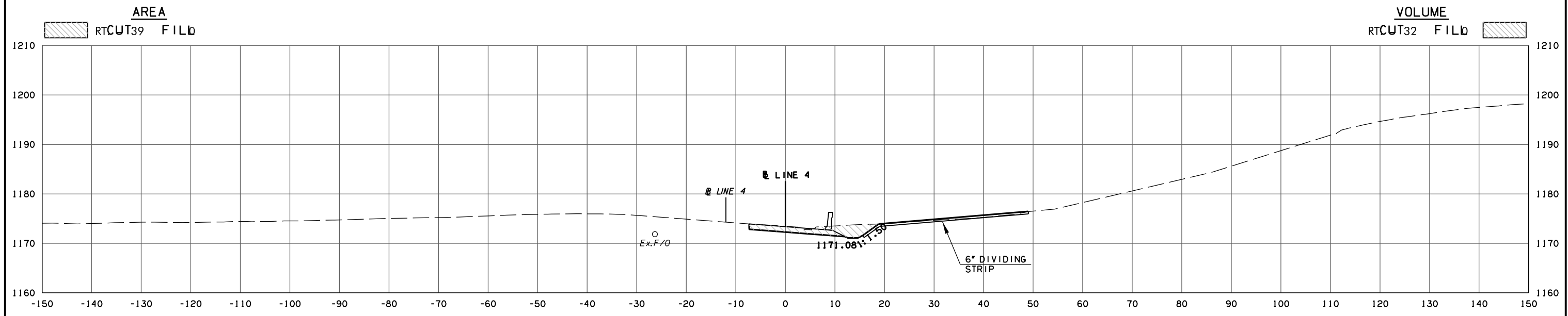
343 + 73.11



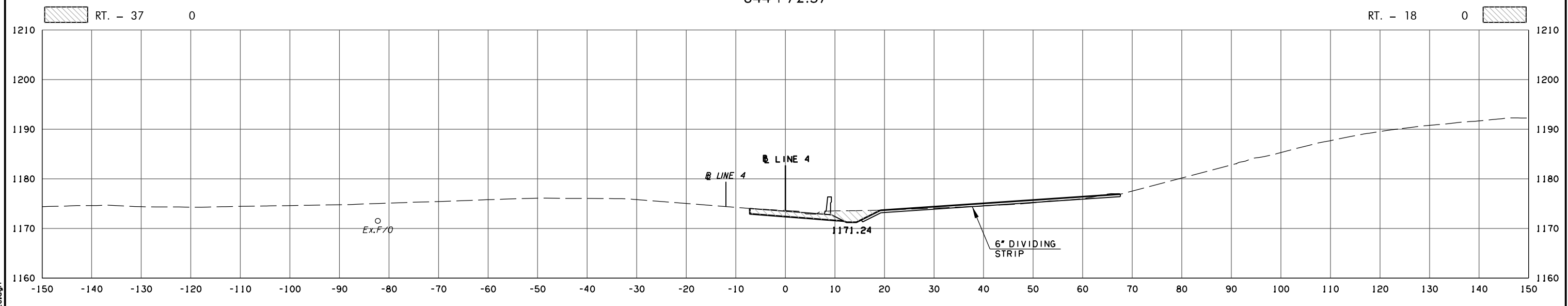
343 + 55.40

9/1/2017 6:44:31 AM H:\PROJECTS\203078_0001_EC-161\Roadway\Drawings\XSections\30444(06)_XSEC.dgn

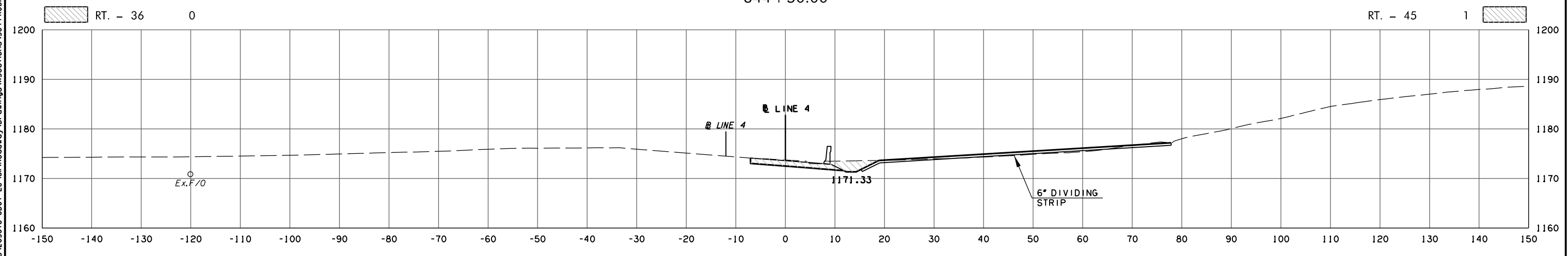
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		



344 + 72.57



344 + 50.00



344 + 36.61

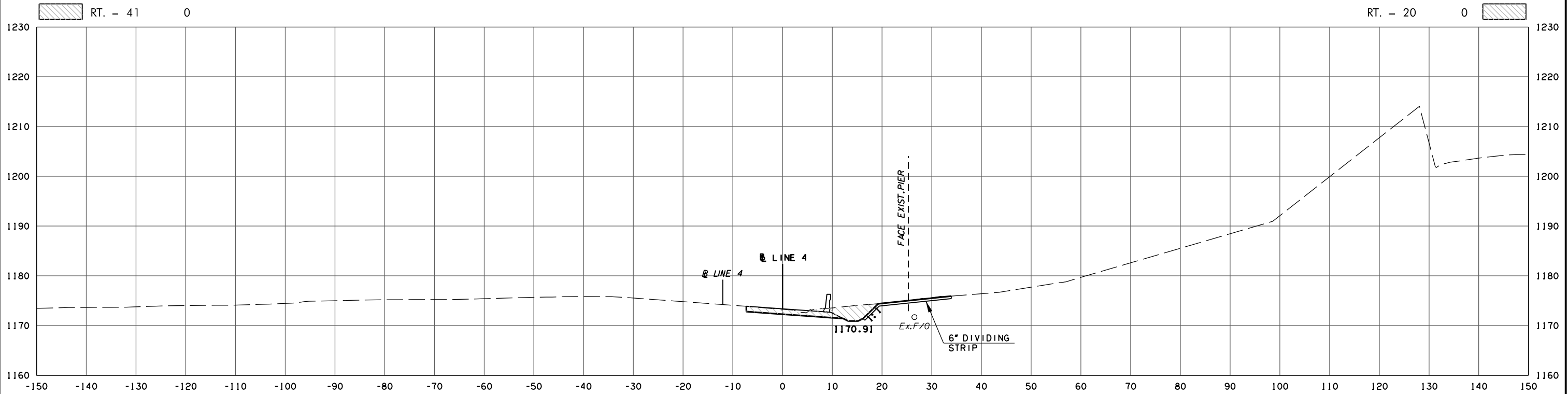
LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X66

9/1/2017 6:44:32 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

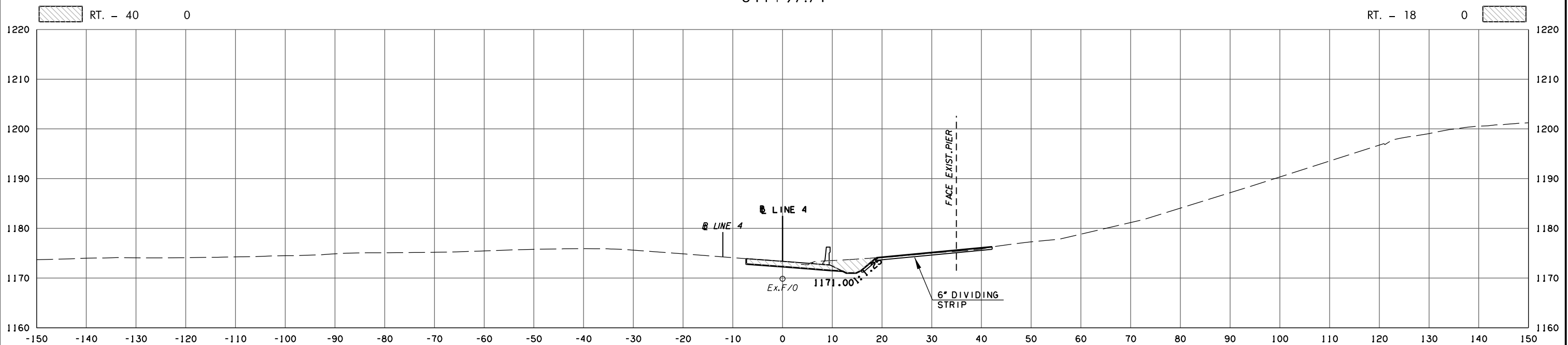
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION		REVISIONS	DATE			

AREA
CUT FILL

VOLUME
CUT FILL



344 + 97.71



344 + 84.57

FIBER OPTIC LINE CROSSING - ELEVATION UNKNOWN

LINE 4

STATE JOB NO.	30444(06)
OKLAHOMA COUNTY	SHEET NO. X67

9/1/2017 6:44:33 AM
 H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

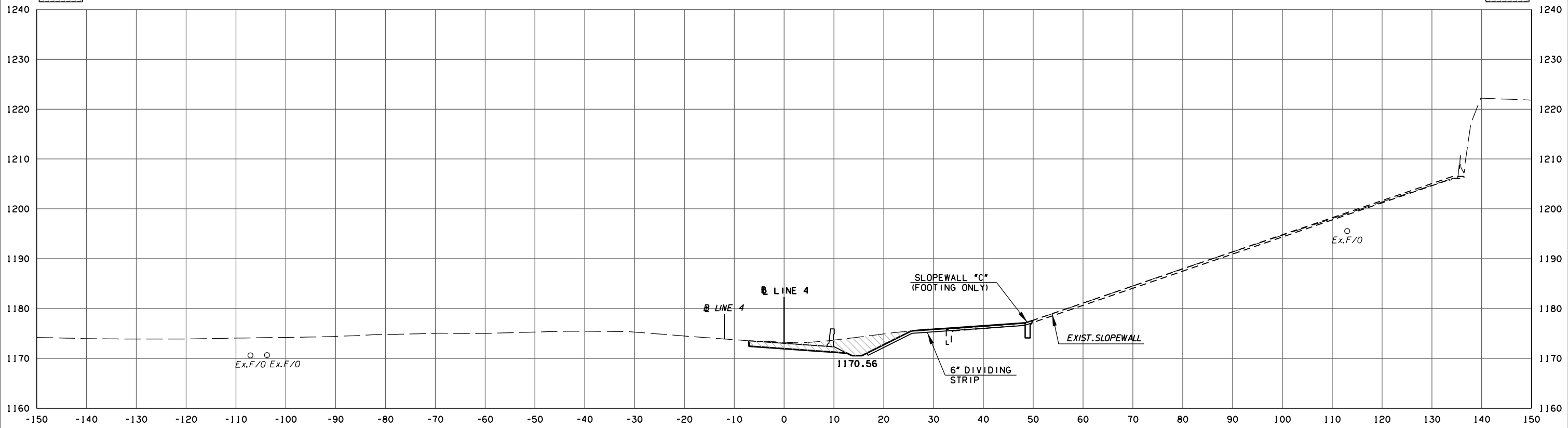
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

RT. - 64 0

VOLUME
CUT FILL

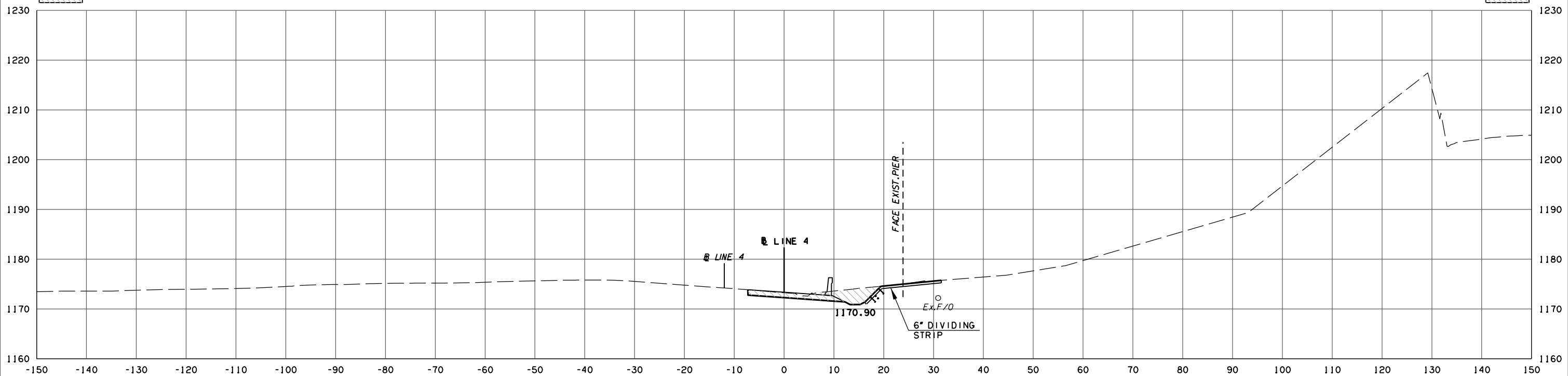
RT. - 98 1



345 + 50.00

RT. - 42 0

RT. - 4 0



345 + 00.00

LINE 4

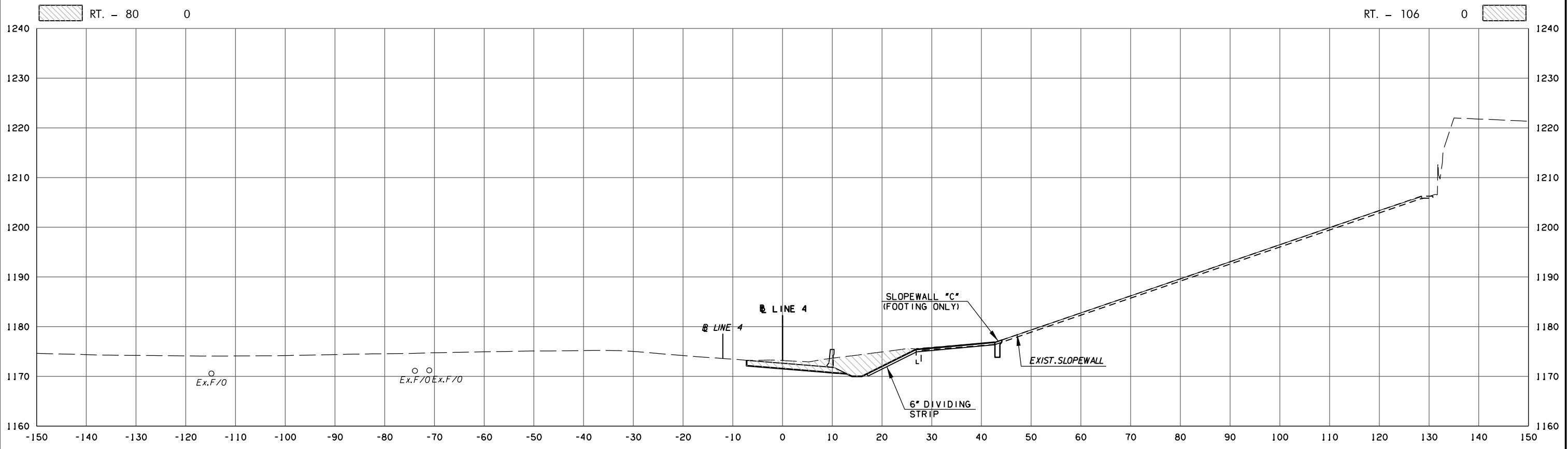
STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X68

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

9/1/2017 6:44:35 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn



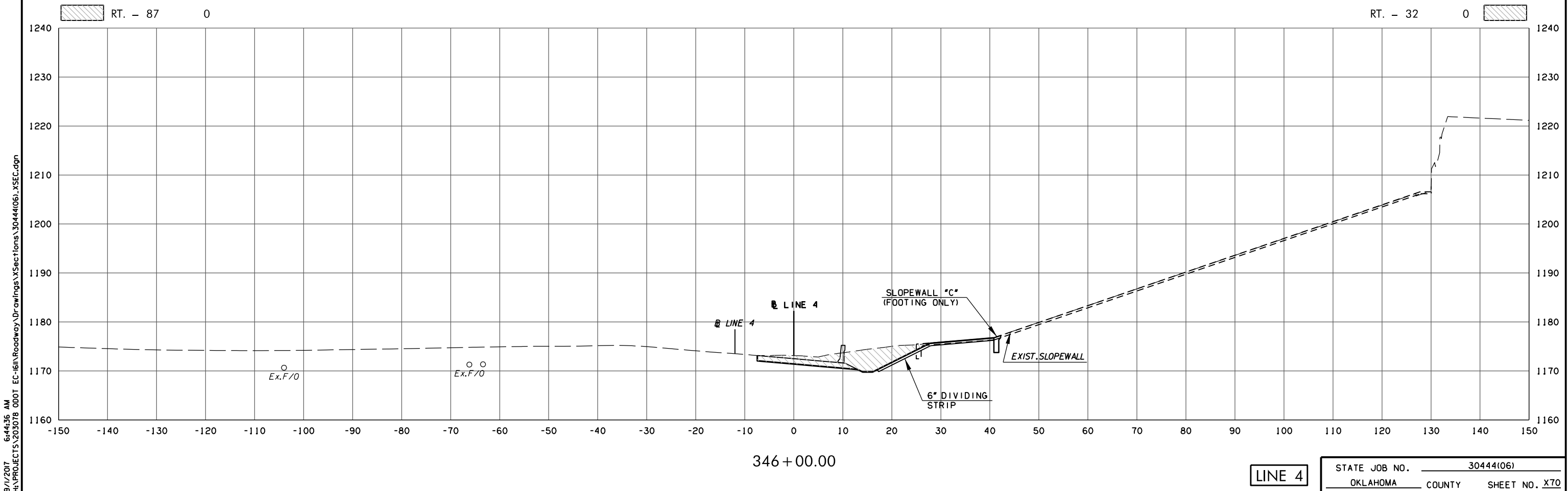
345 + 89.74

LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X69

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



9/1/2017 6:44:36 AM
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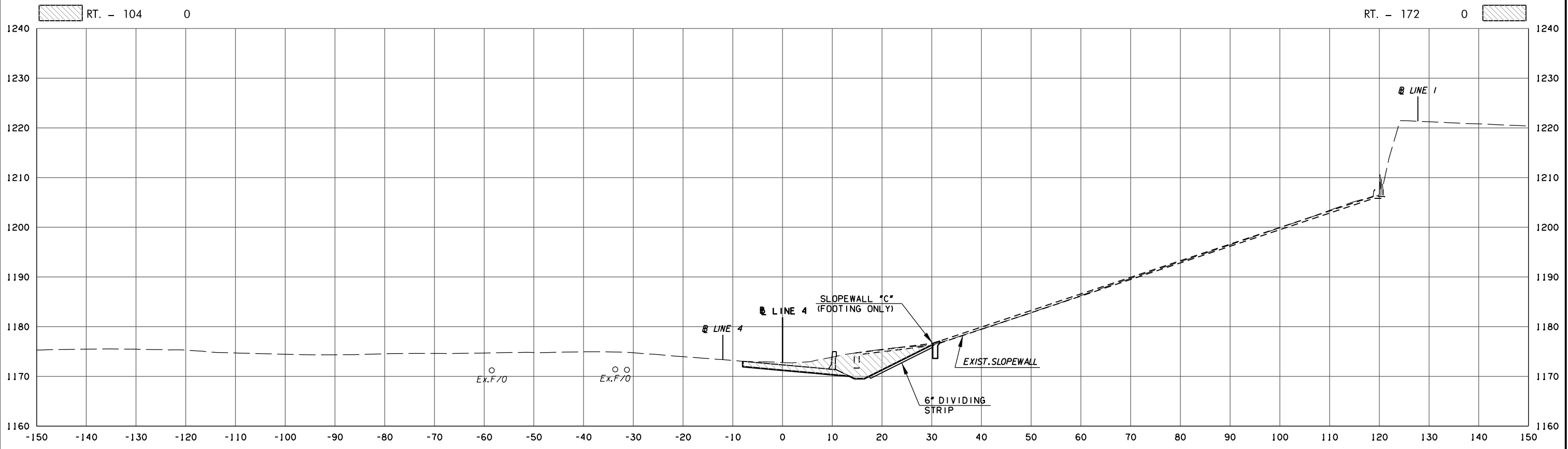
STATE JOB NO.	30444(06)
OKLAHOMA COUNTY	SHEET NO. X70

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

9/1/2017 6:44:37 AM H:\PROJECTS\20307B_0001_EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn



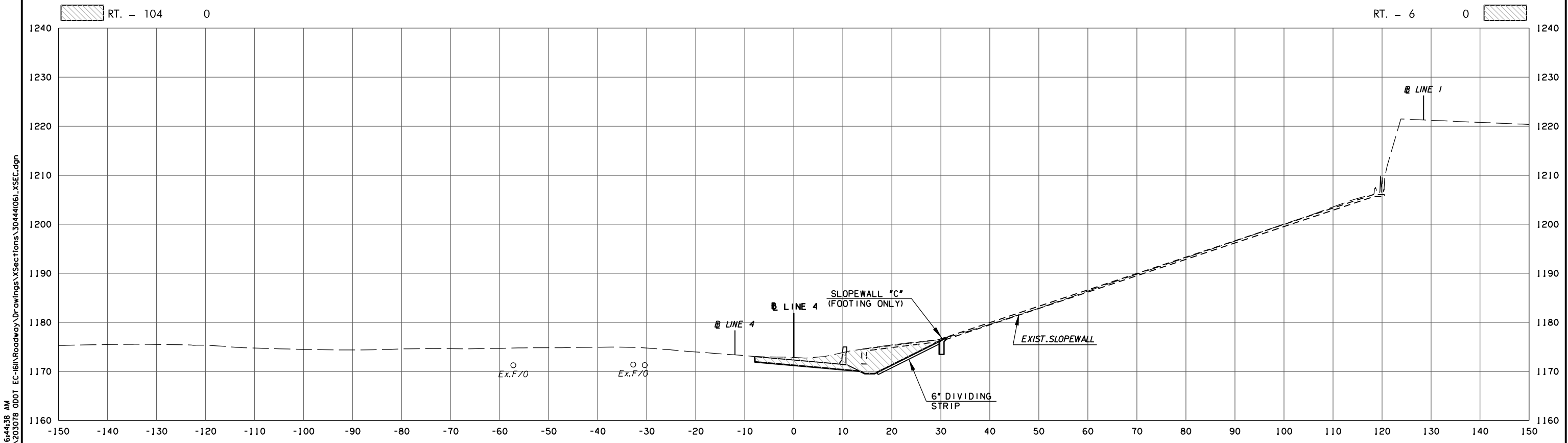
346 + 48.52

LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X71

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



9/1/2017 6:44:38 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

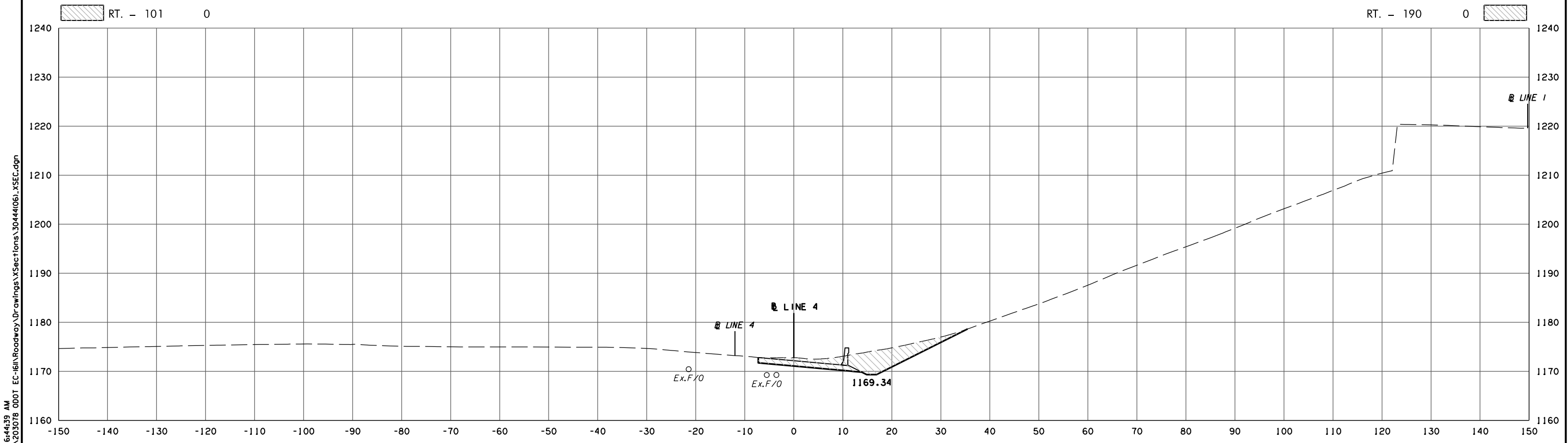
346 + 50.00

LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X72

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



9/1/2017 6:44:39 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

347 + 00.00

LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X73

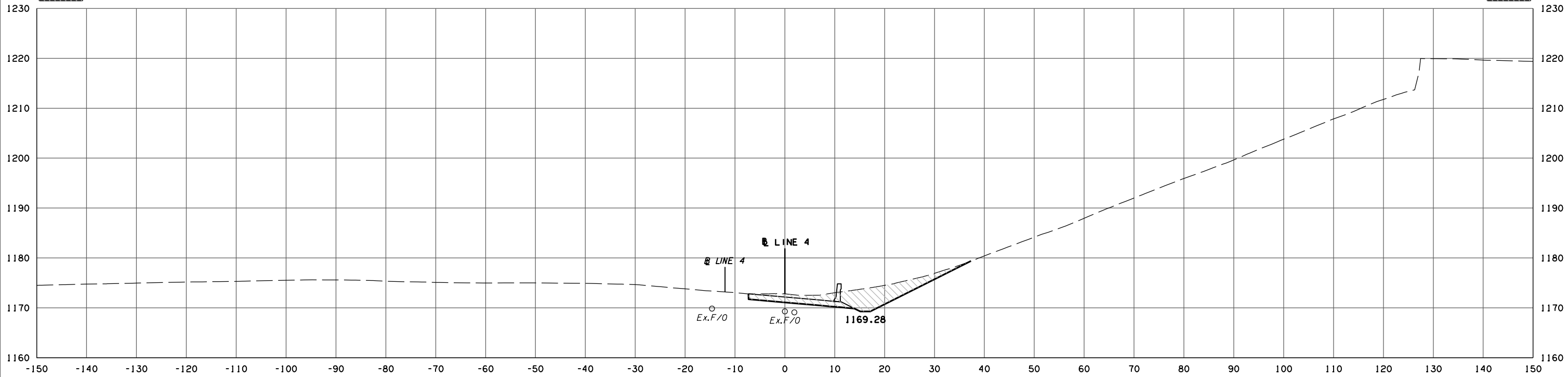
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

RT. - 100 0

VOLUME
CUT FILL

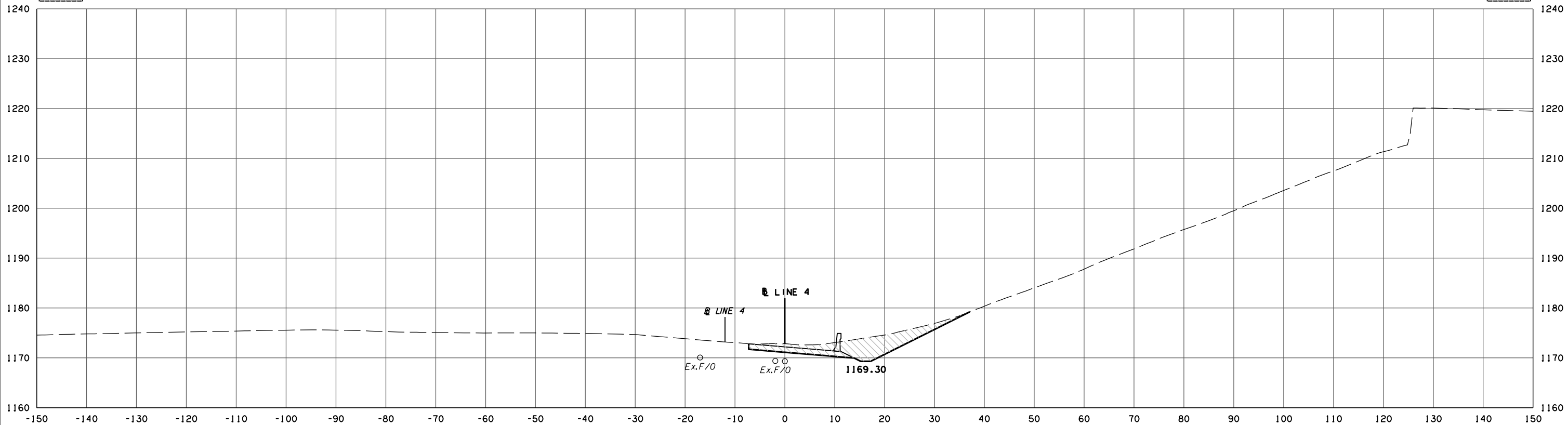
RT. - 15 0



347+11.57
FIBER OPTIC LINE CROSSING - ELEVATION UNKNOWN

RT. - 101 0

RT. - 28 0



347+07.48
FIBER OPTIC LINE CROSSING - ELEVATION UNKNOWN

LINE 4

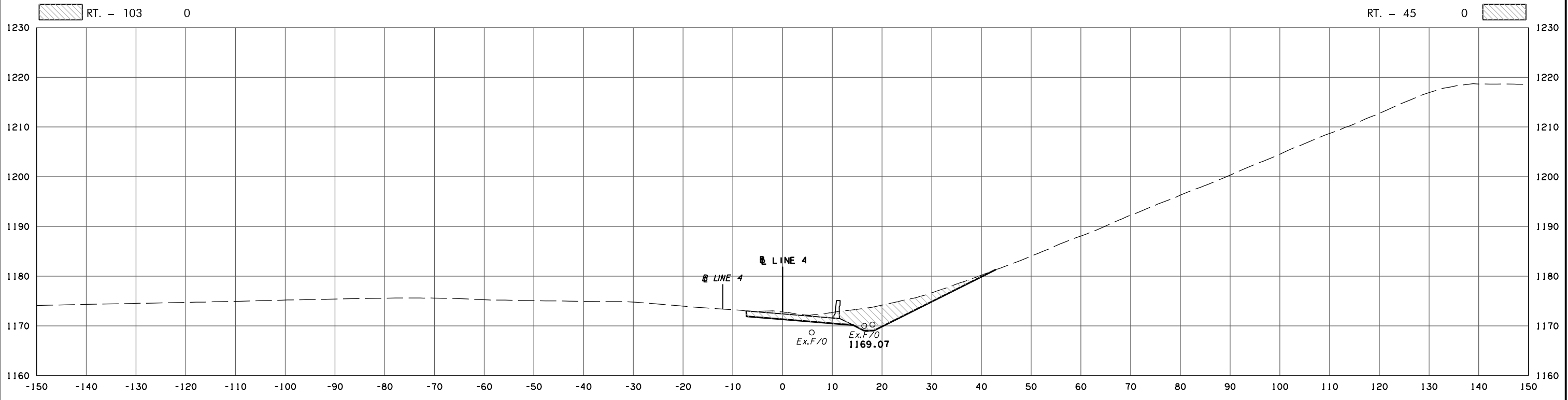
STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X74

9/1/2017 6:44:40 AM H:\PROJECTS\203078_0001_EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

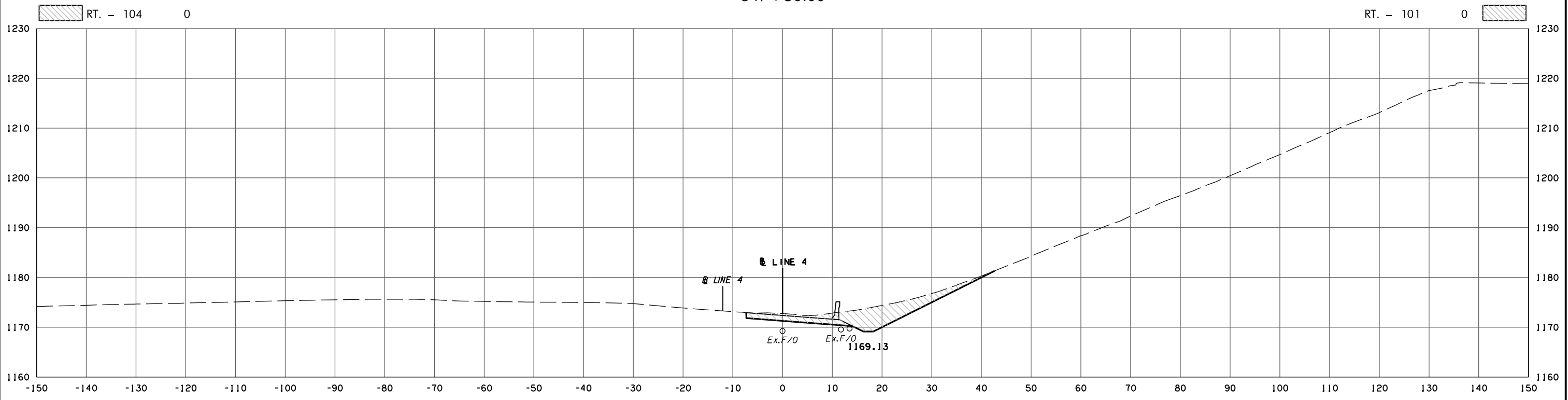
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



347 + 50.00



347 + 38.34

FIBER OPTIC LINE CROSSING - ELEVATION UNKNOWN

LINE 4

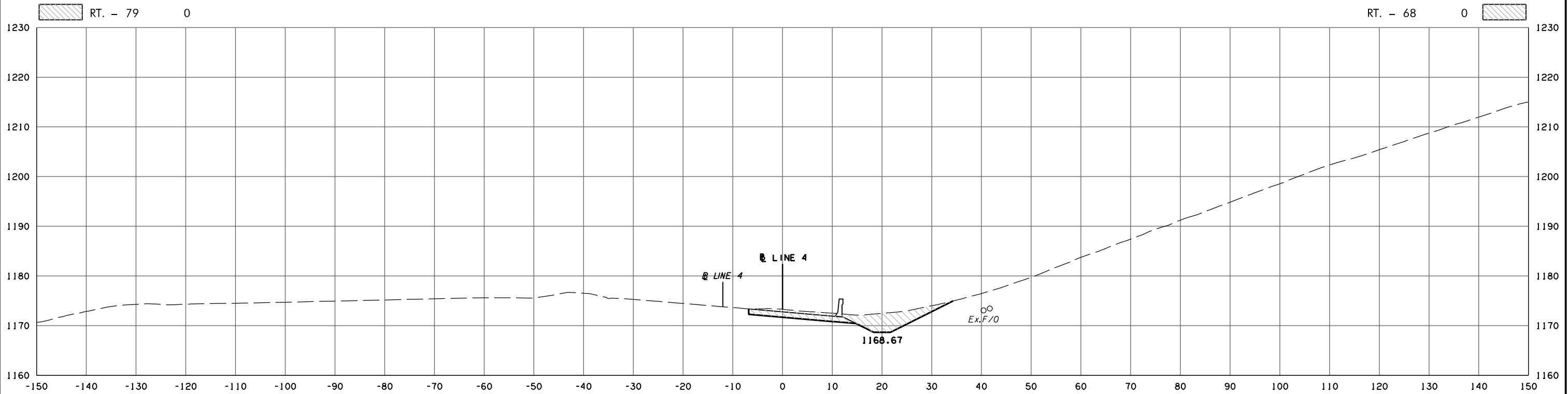
STATE JOB NO.	30444(06)
OKLAHOMA COUNTY	SHEET NO. X75

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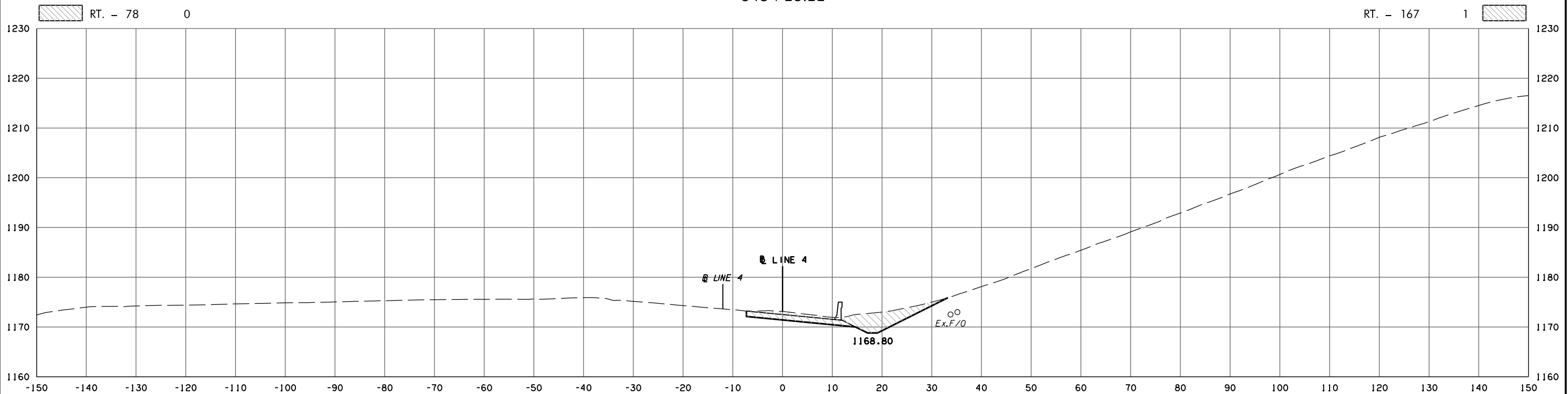
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



348 + 23.22



348 + 00.00

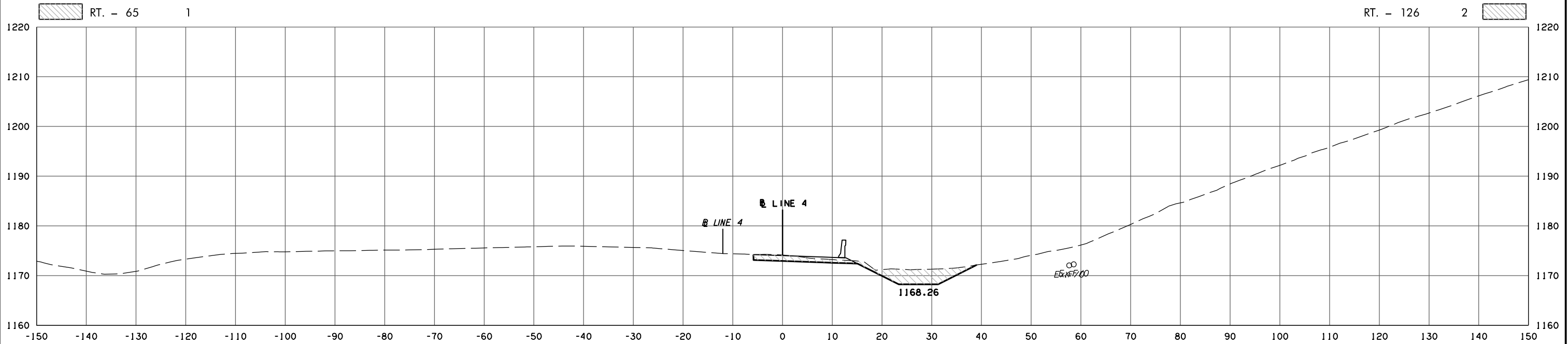
STATE JOB NO.	30444(06)
OKLAHOMA COUNTY	SHEET NO. X76

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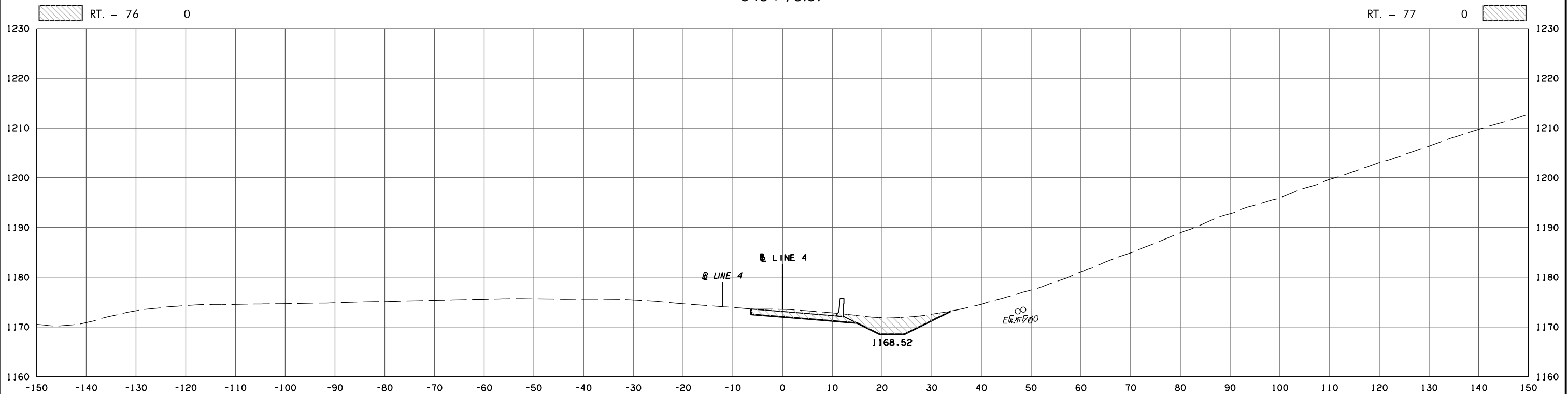
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



348 + 98.37



348 + 50.00

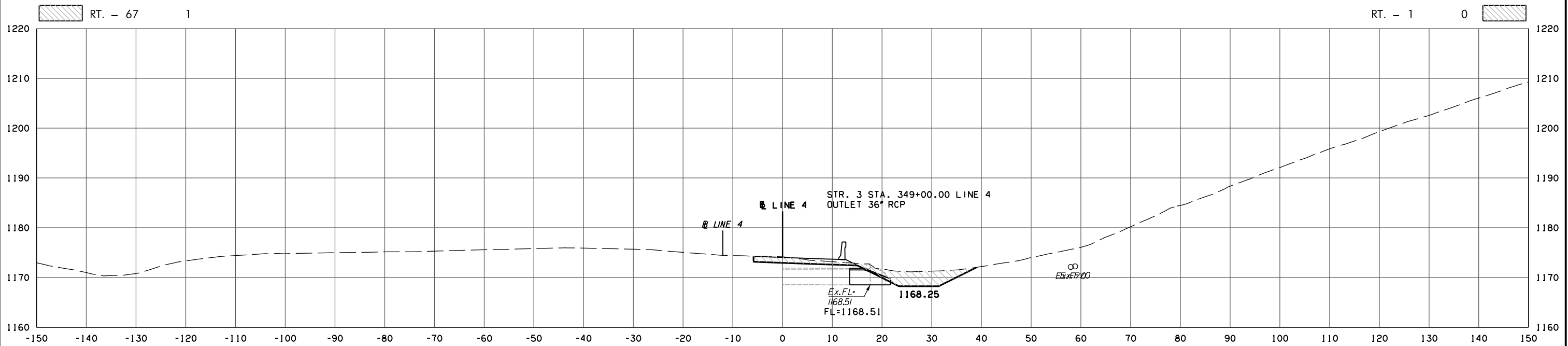
LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X77

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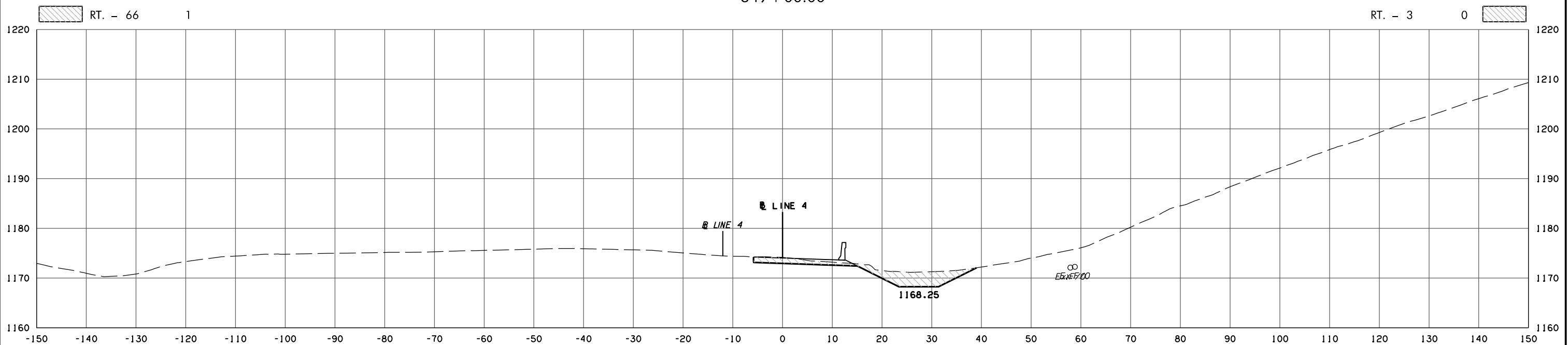
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FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



349 + 00.00



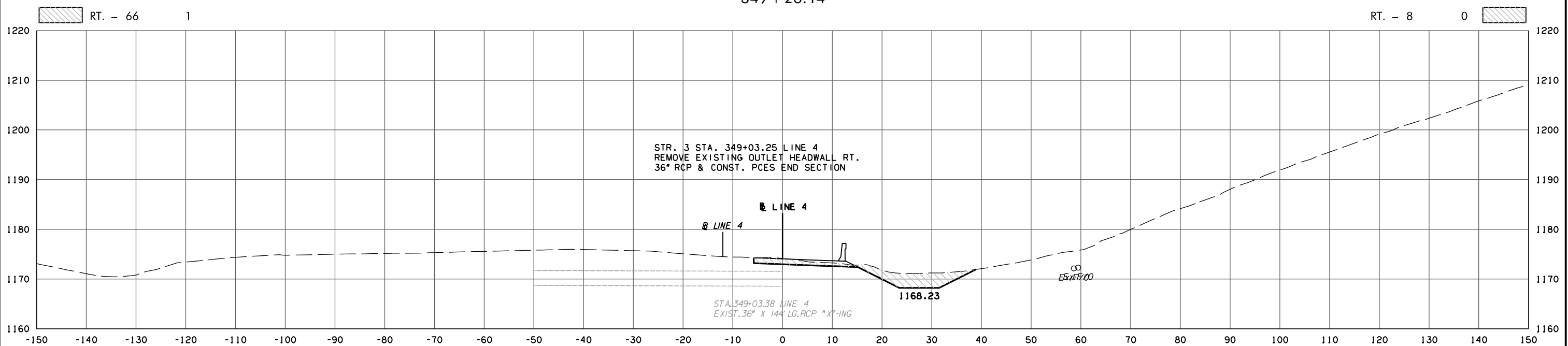
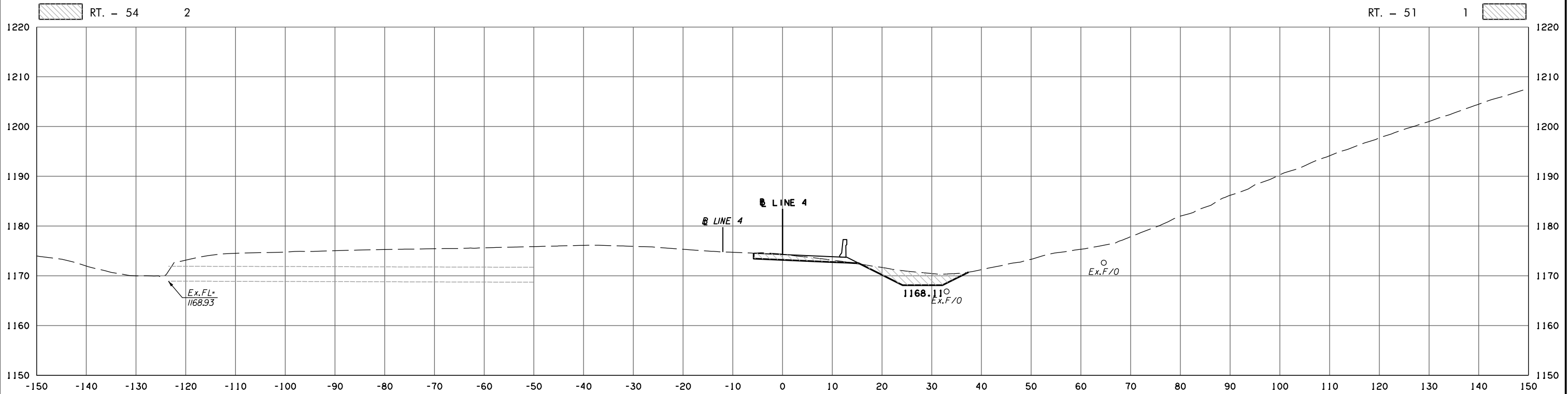
348 + 99.62

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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

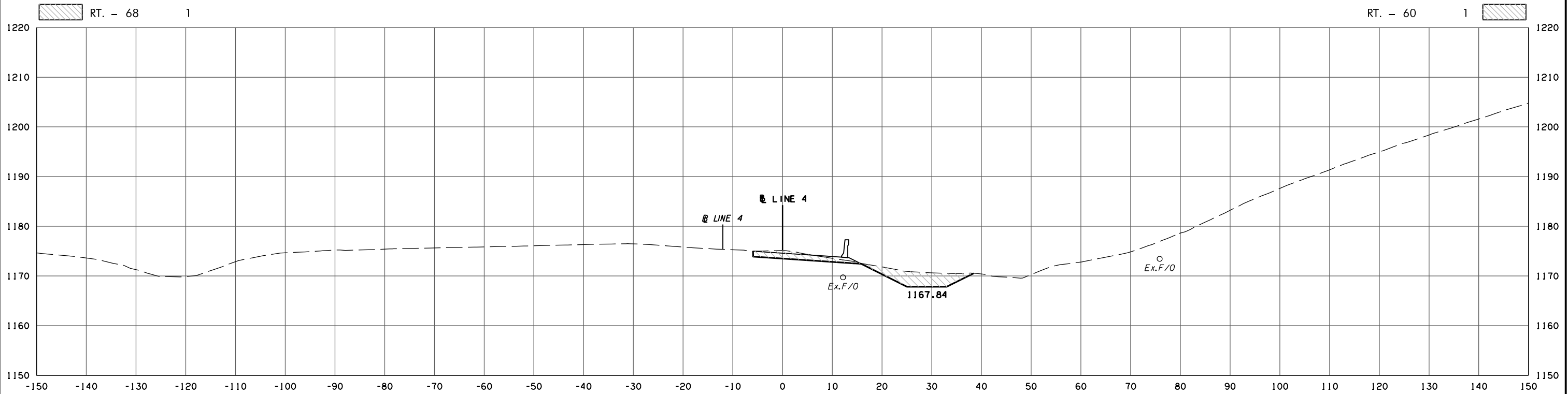


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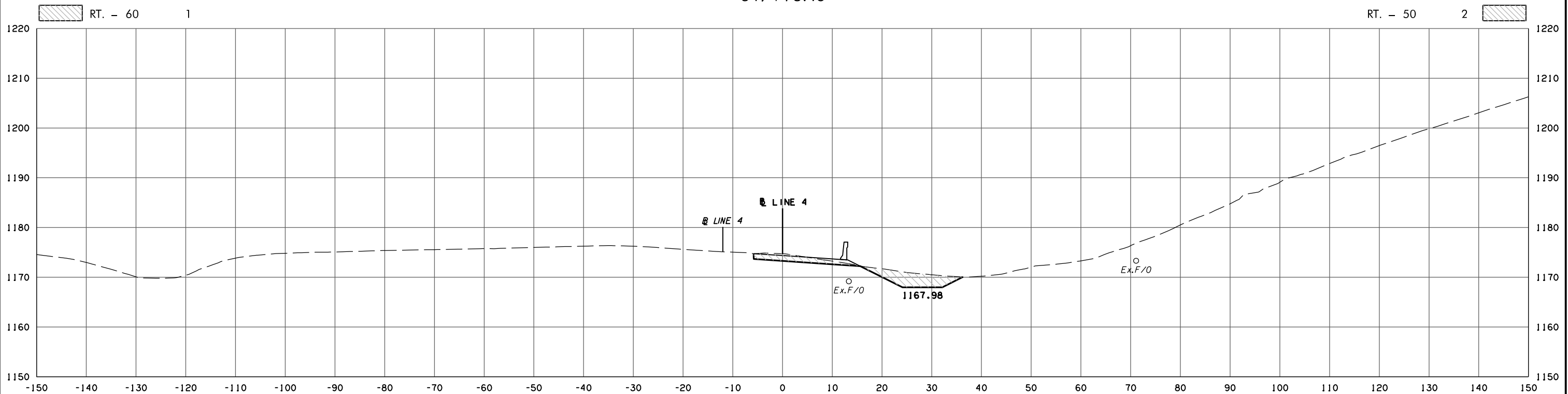
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



349 + 75.46



349 + 50.00

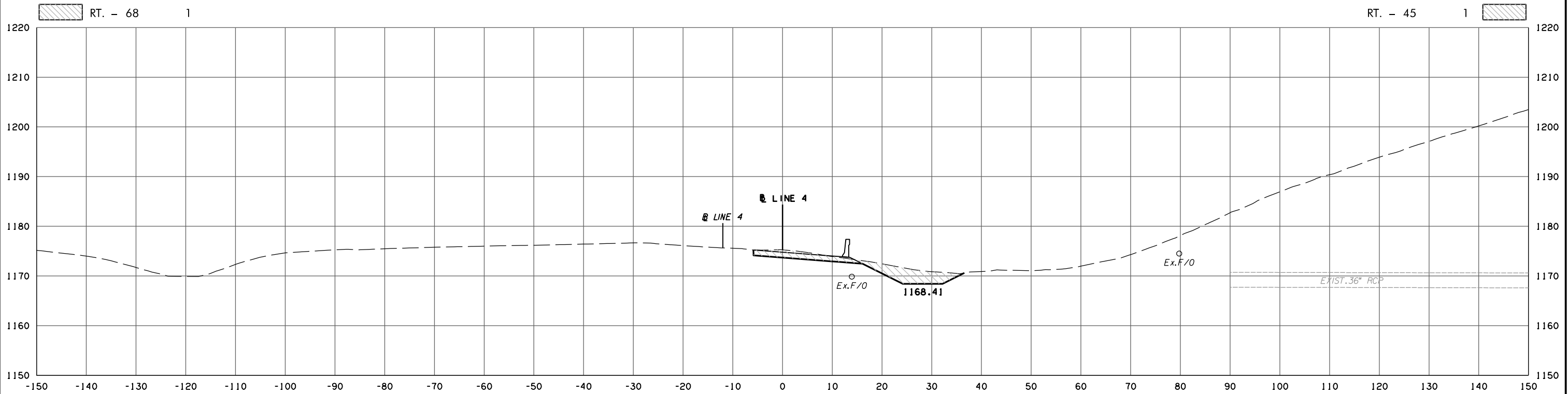
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LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X80

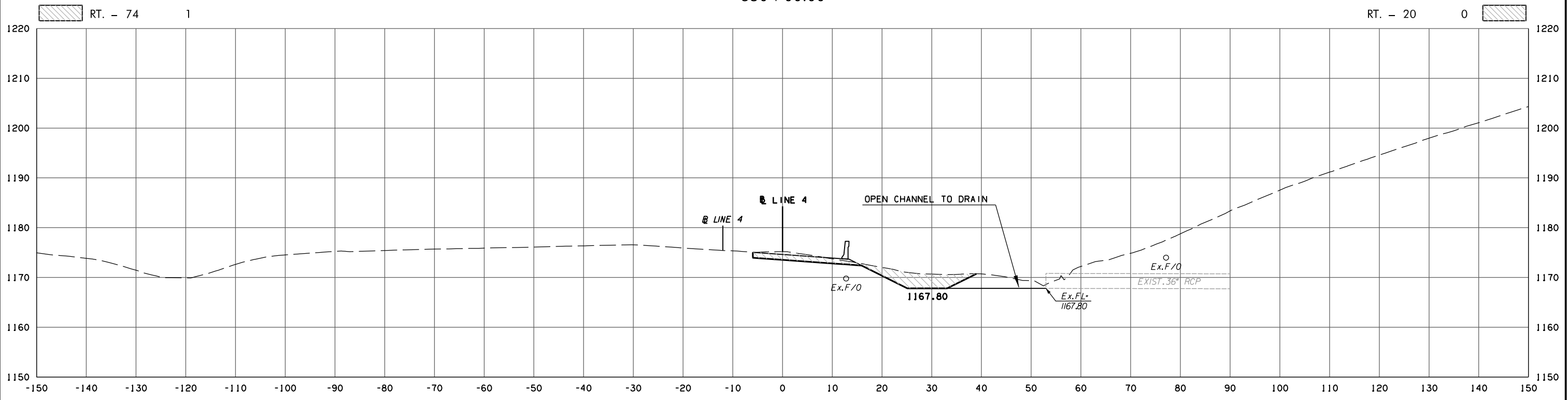
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



350+00.00



349+83.07

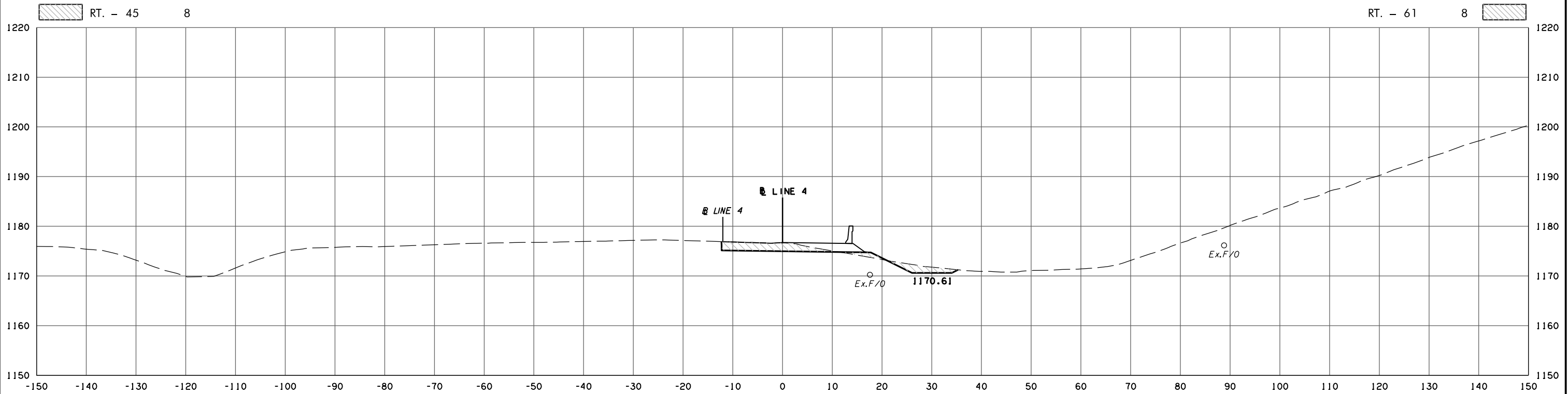
STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X81

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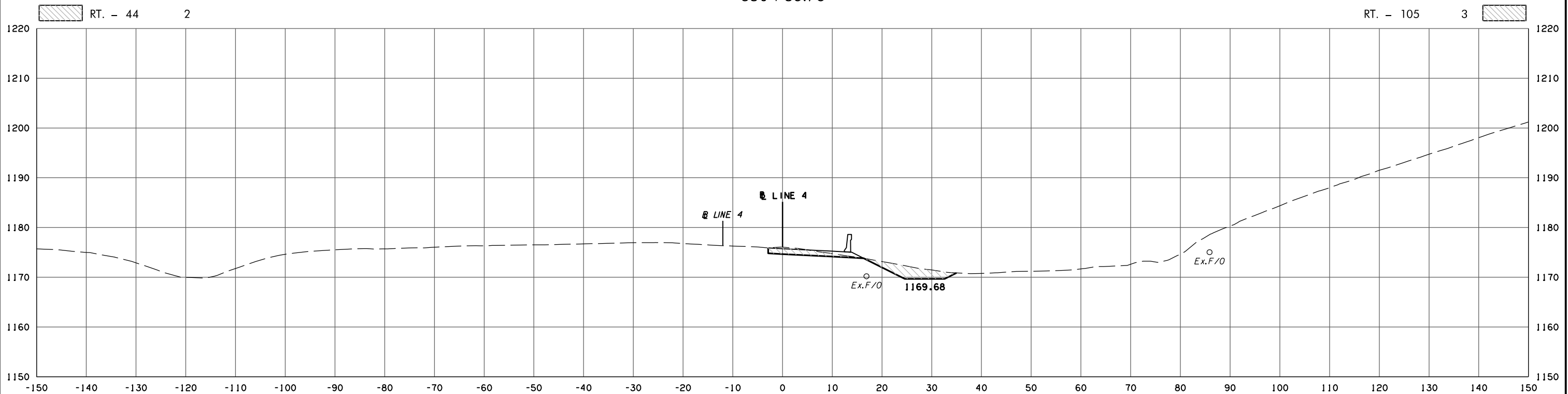
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



350+86.76



350+50.00

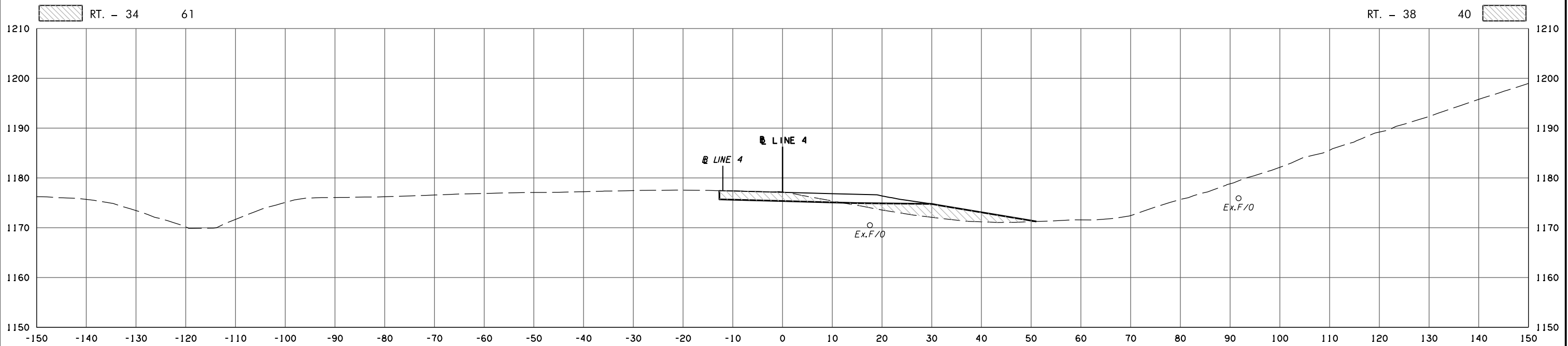
LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X82

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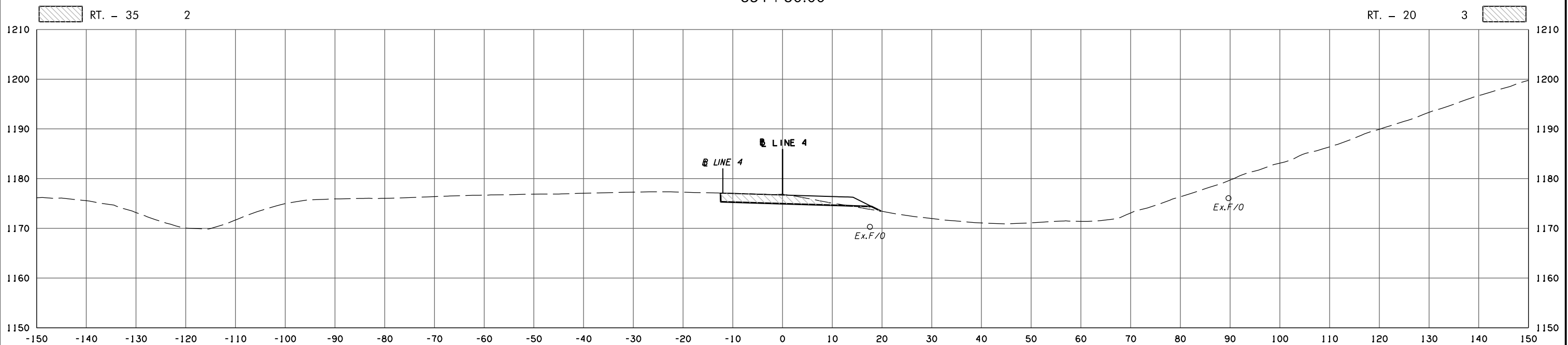
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



351+30.00



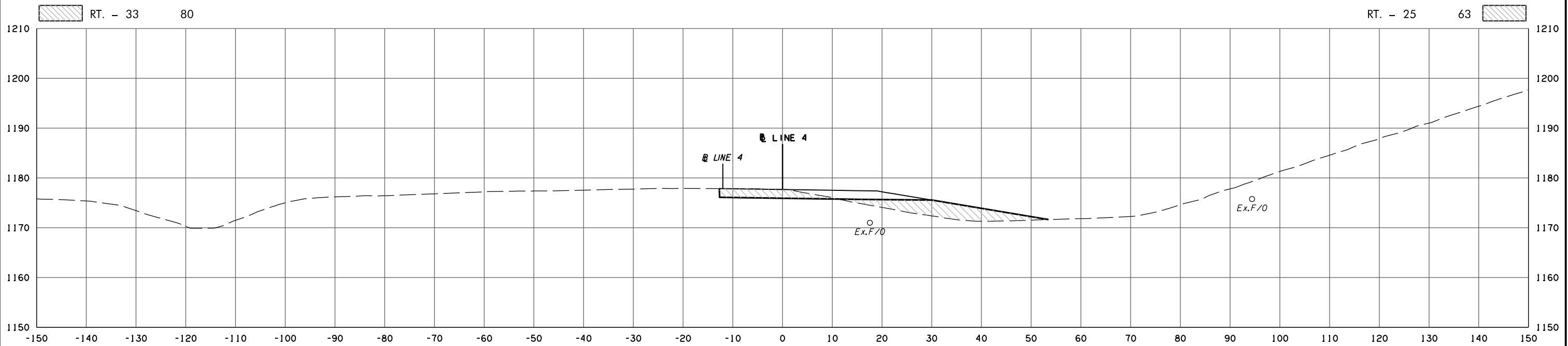
351+00.00

9/1/2017 6:44:48 AM H:\PROJECTS\203078 0001 EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

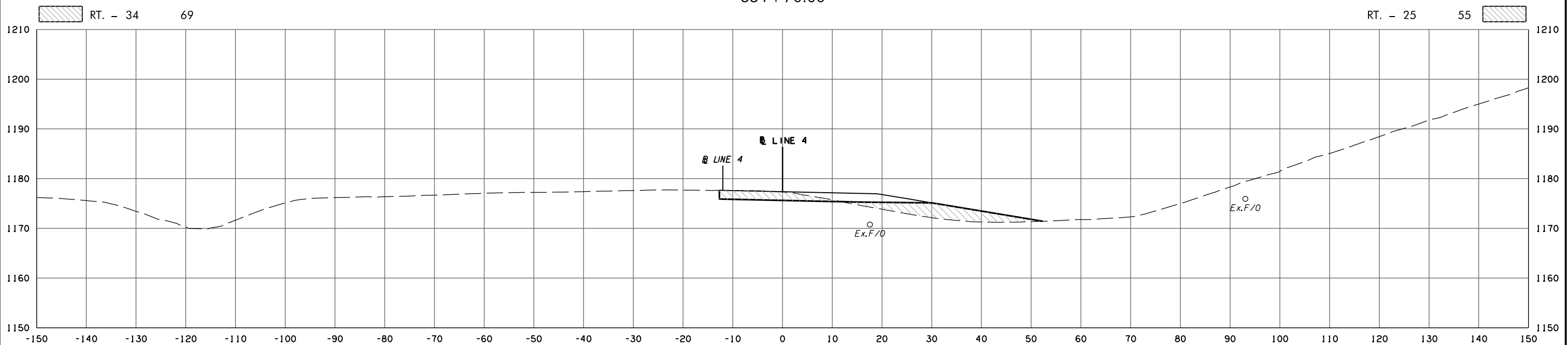
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL



351+70.00



351+50.00

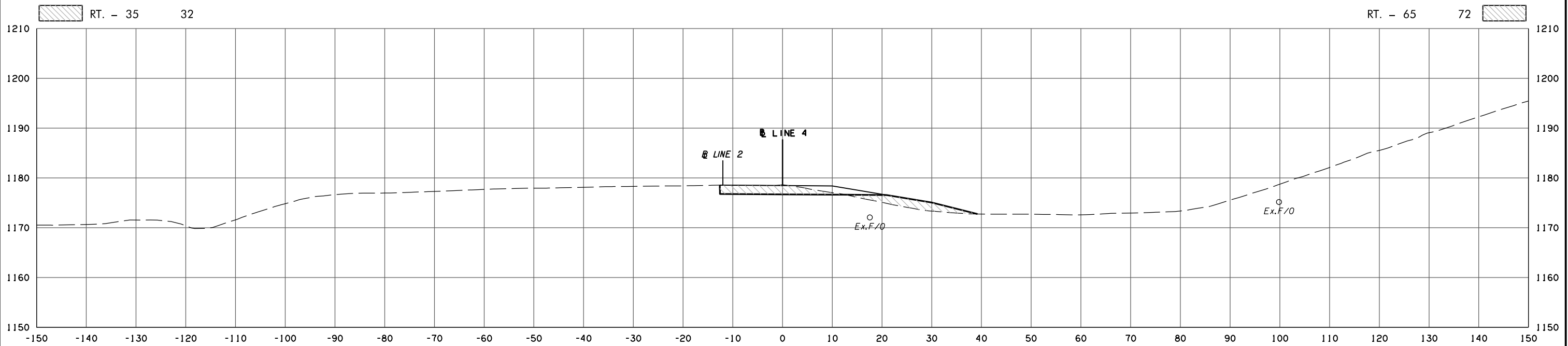
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LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X84

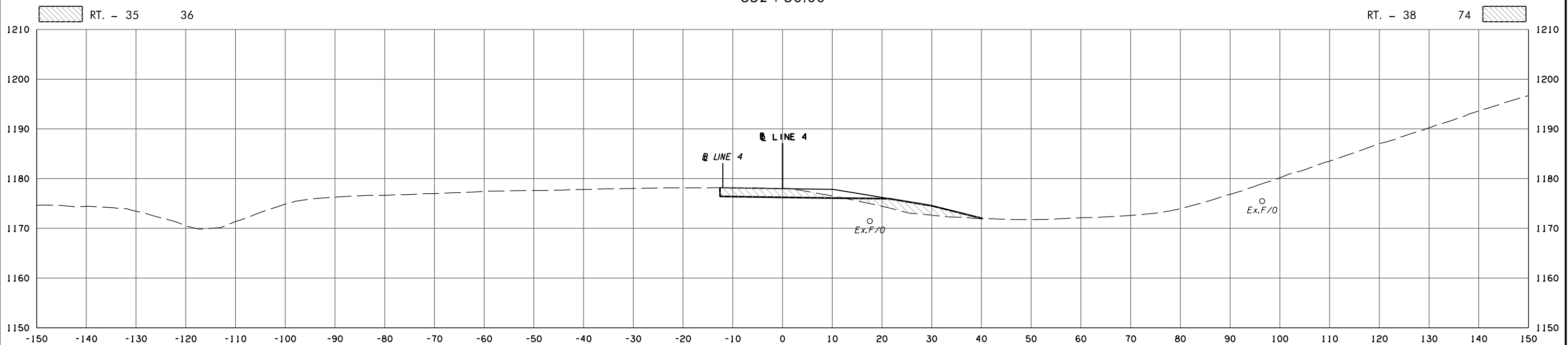
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



352 + 50.00



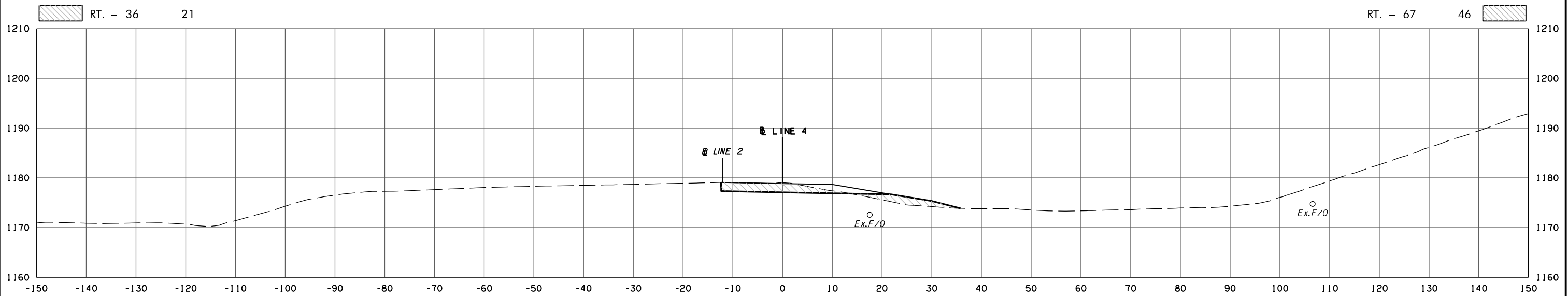
352 + 00.00

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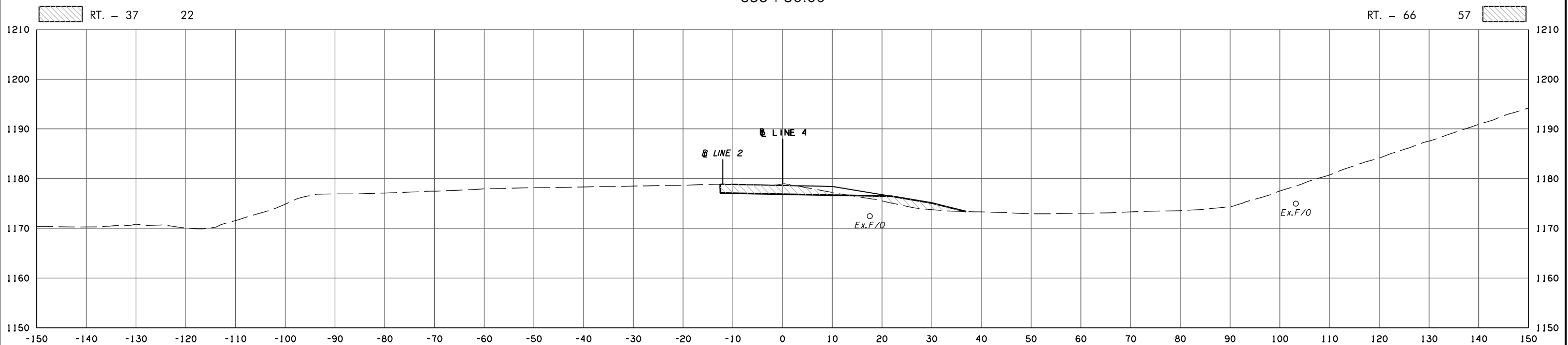
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



353 + 50.00



353 + 00.00

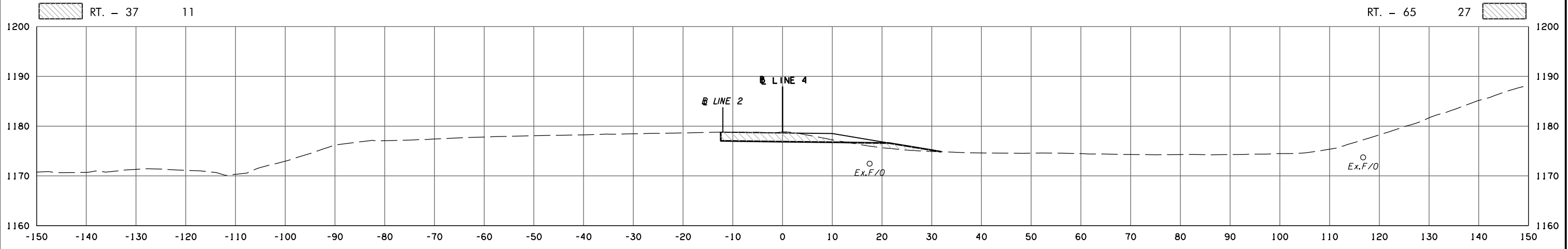
LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X86

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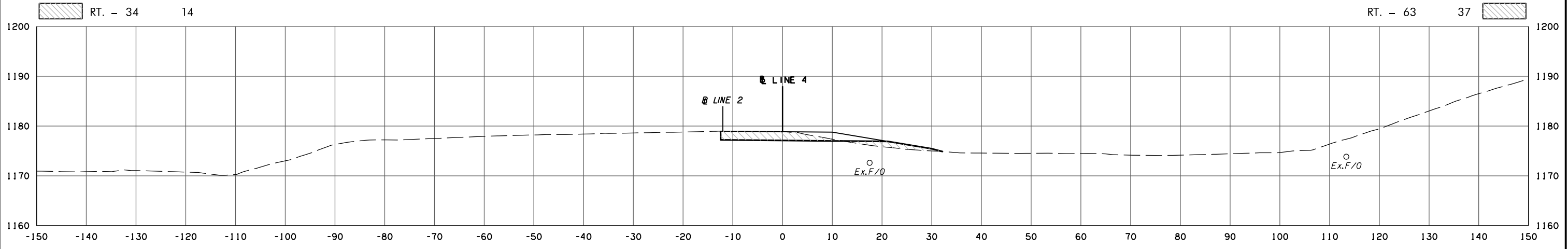
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

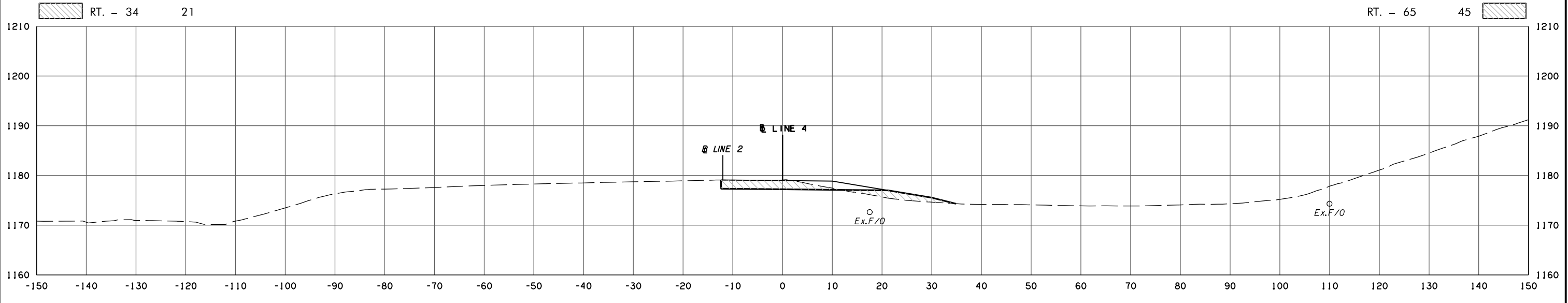
VOLUME
CUT FILL



355+00.00



354+50.00



354+00.00

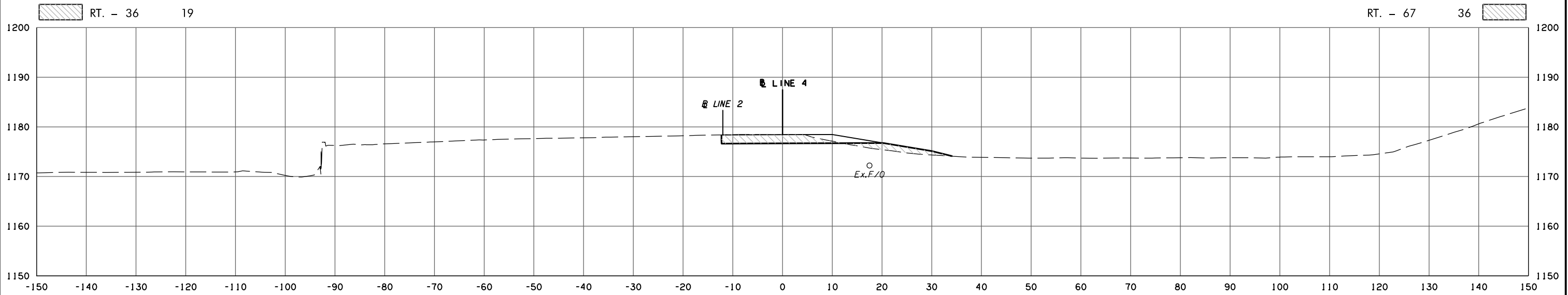
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LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X87

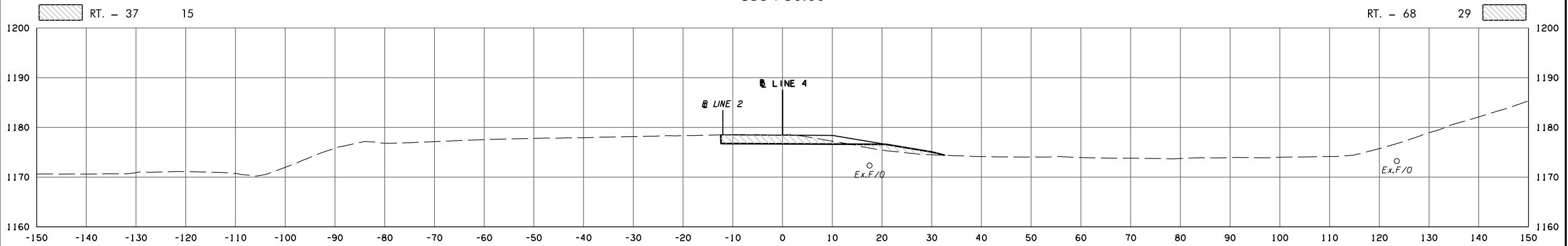
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

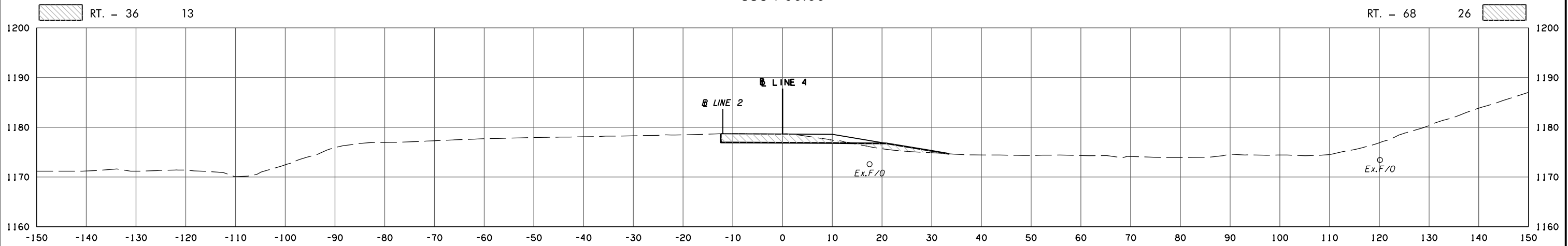
VOLUME
CUT FILL



356 + 50.00



356 + 00.00



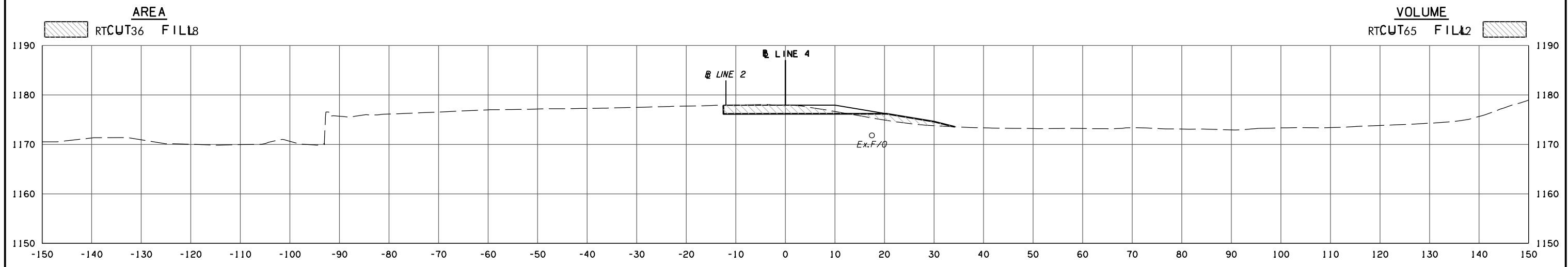
355 + 50.00

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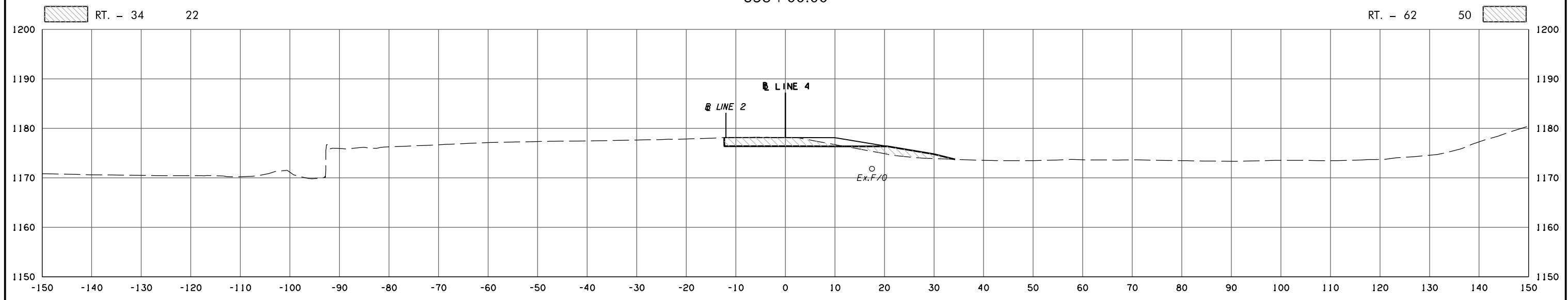
LINE 4

STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X88

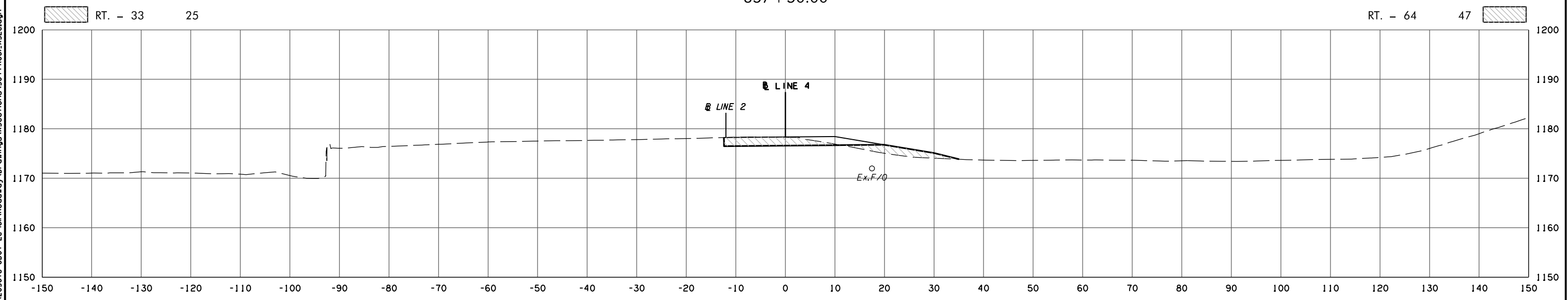
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	



358 + 00.00



357 + 50.00



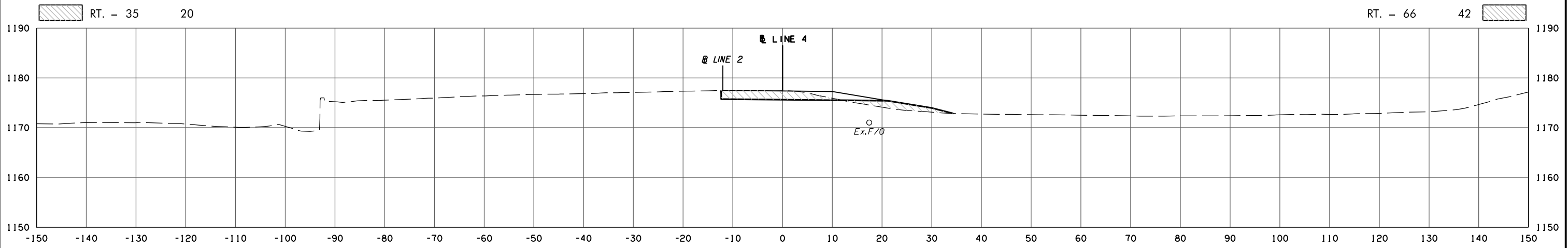
357 + 00.00

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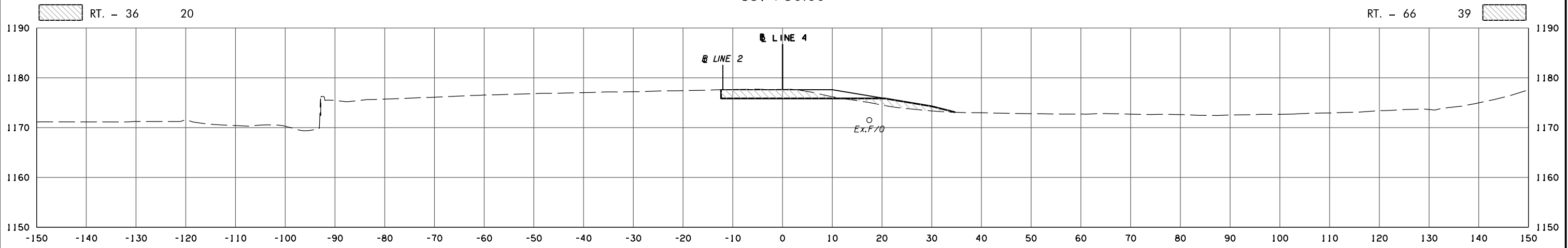
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

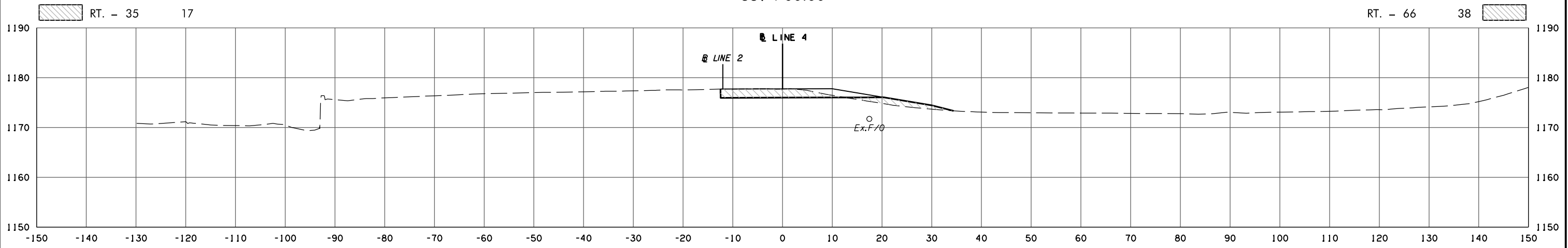
VOLUME
CUT FILL



359 + 50.00



359 + 00.00



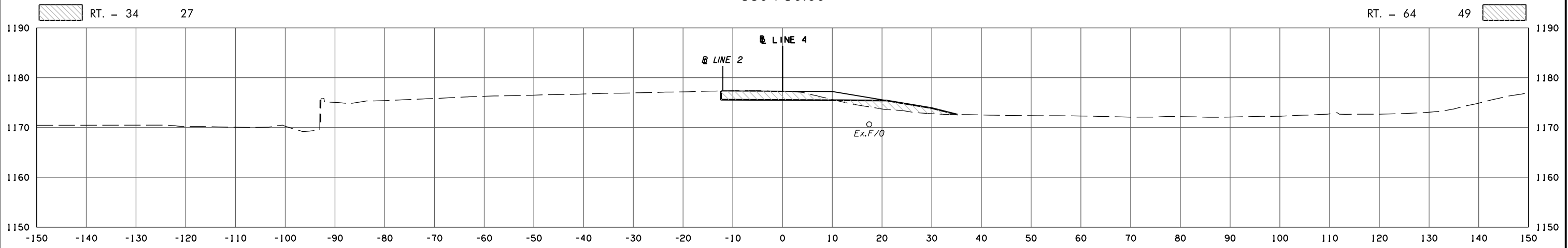
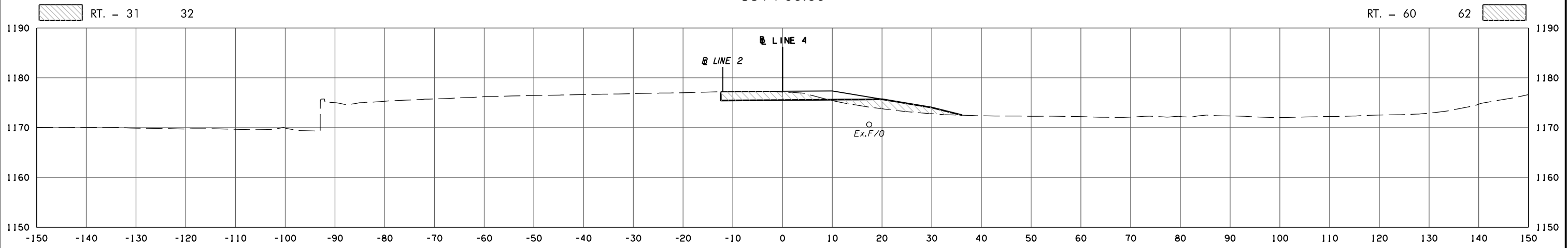
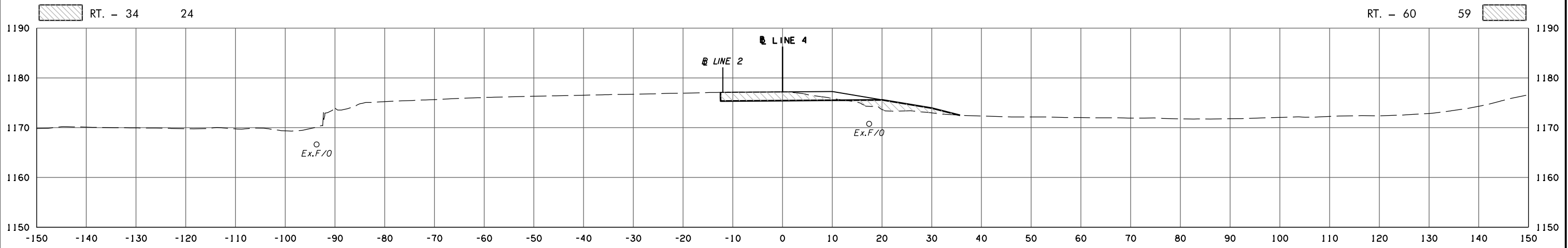
358 + 50.00

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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

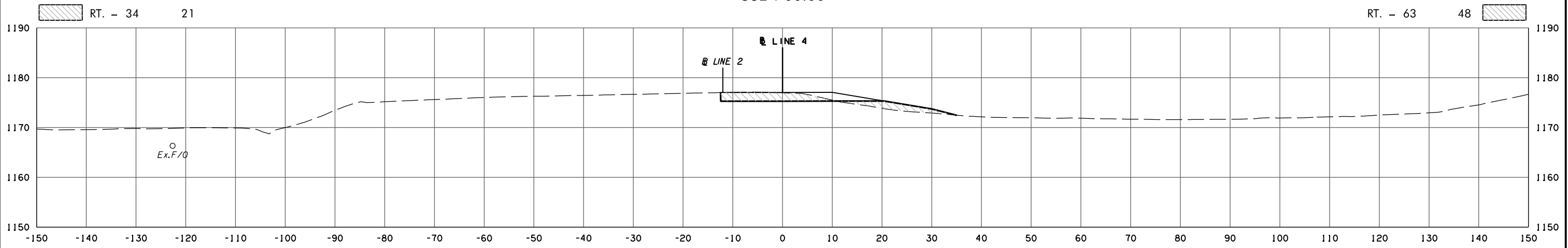
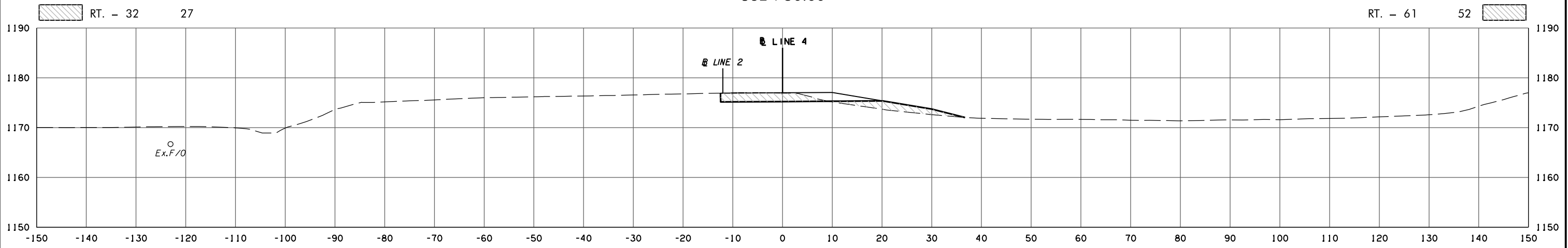
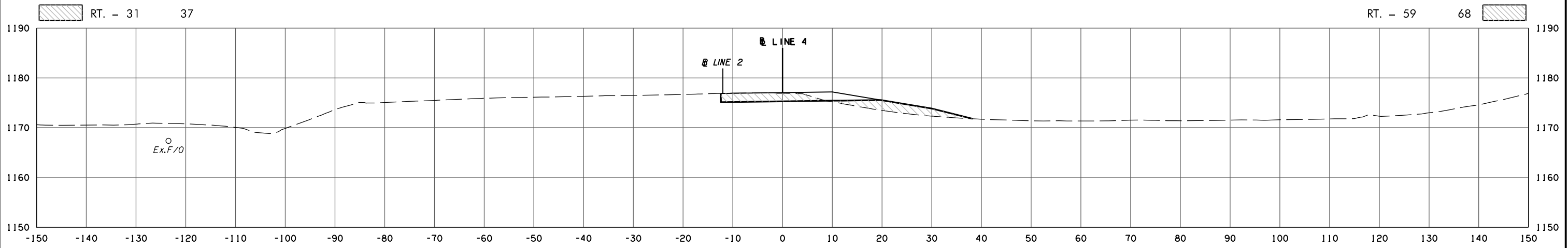


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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL

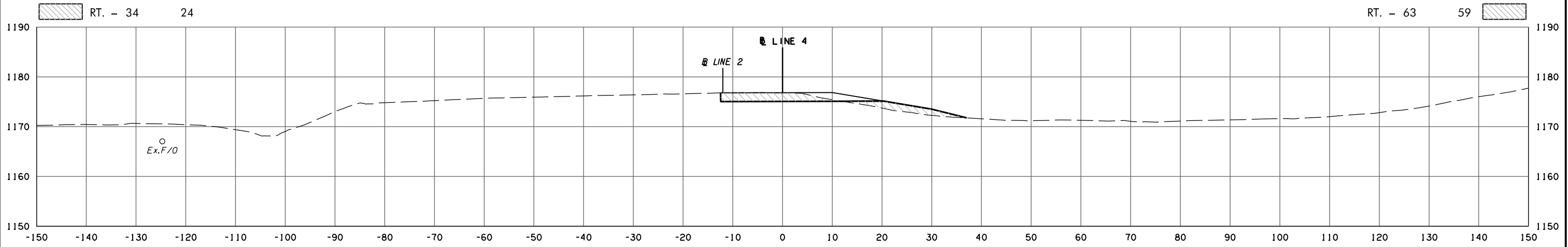


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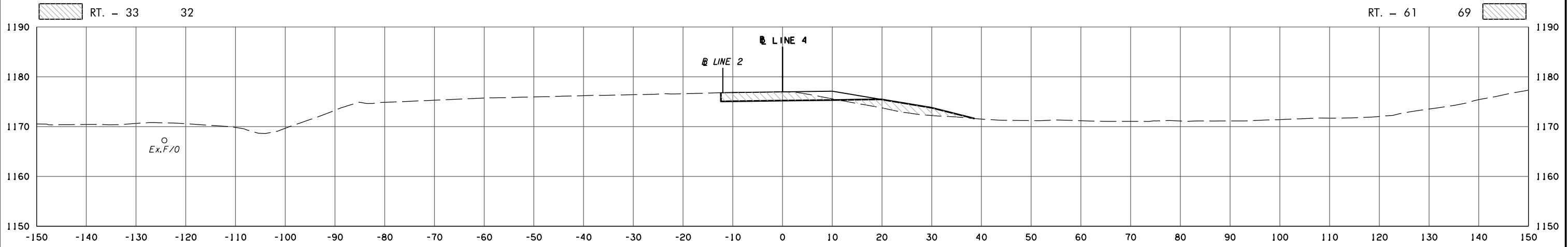
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

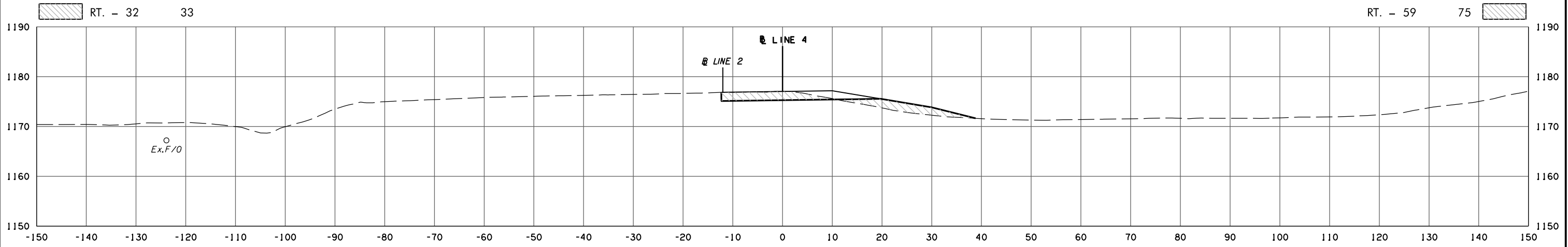
VOLUME
CUT FILL



364+00.00



363+50.00



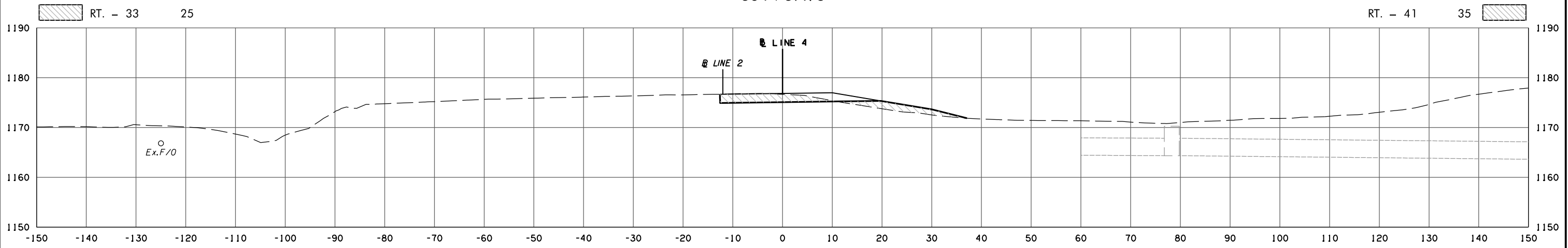
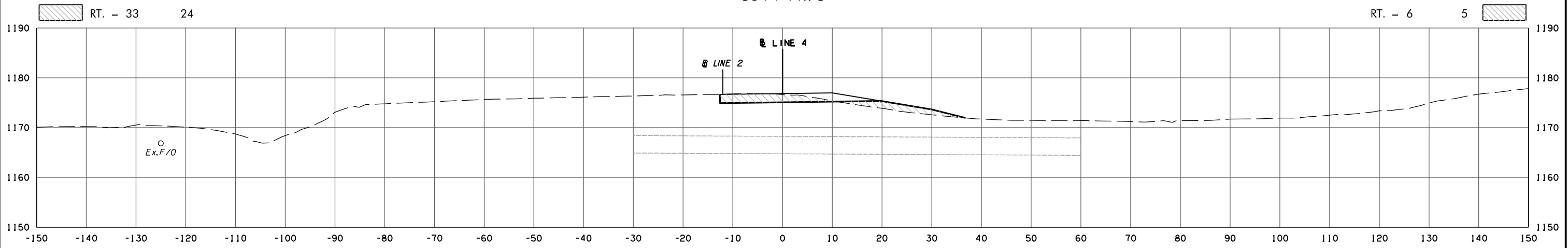
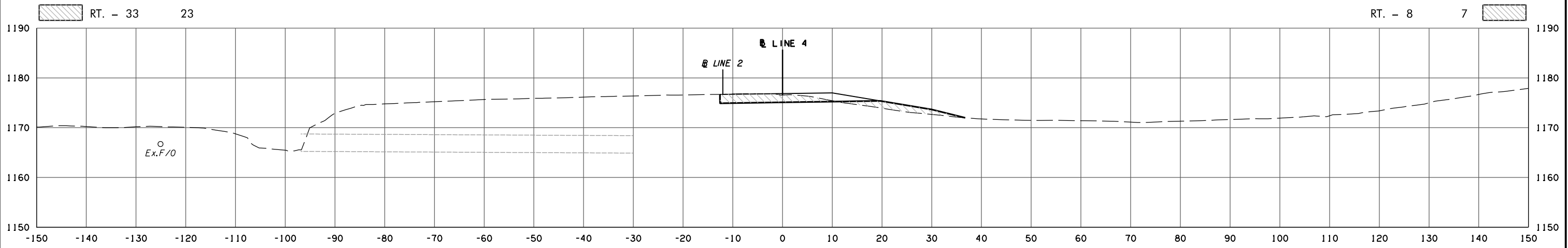
363+00.00

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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

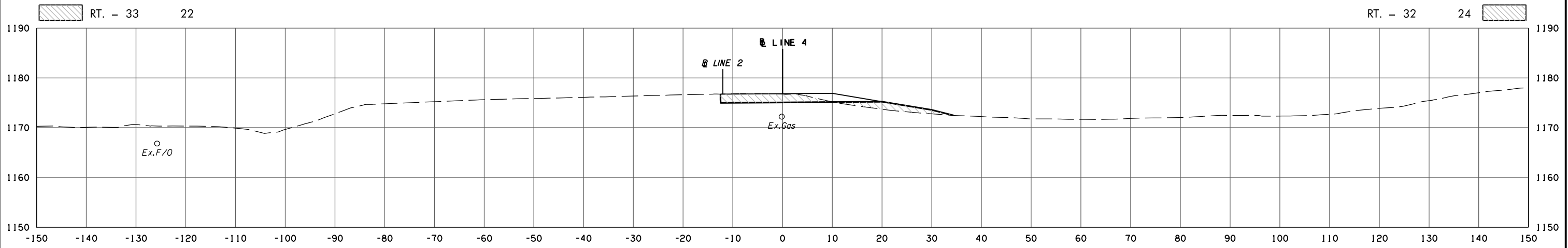


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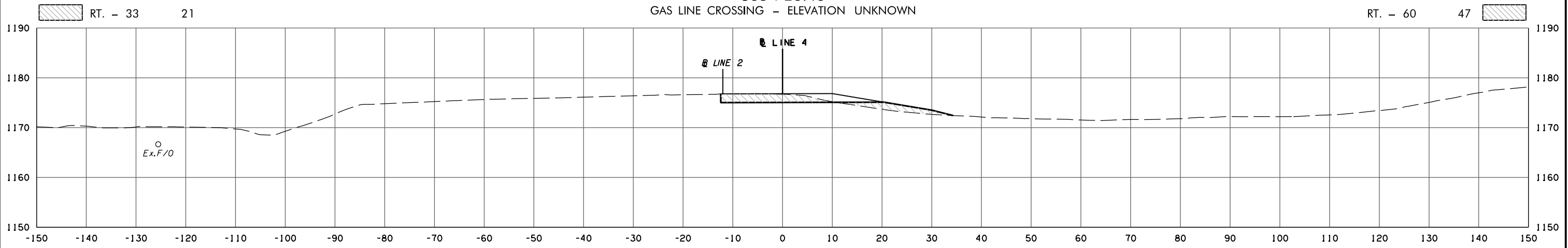
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

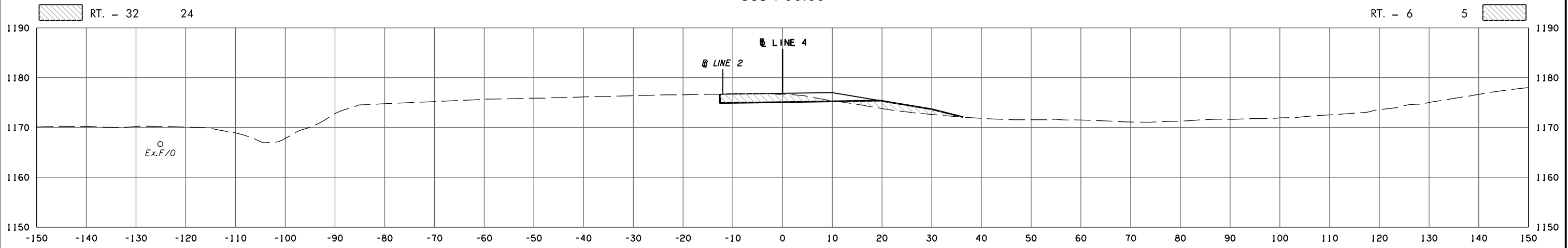
VOLUME
CUT FILL



365 + 26.46
GAS LINE CROSSING - ELEVATION UNKNOWN



365 + 00.00



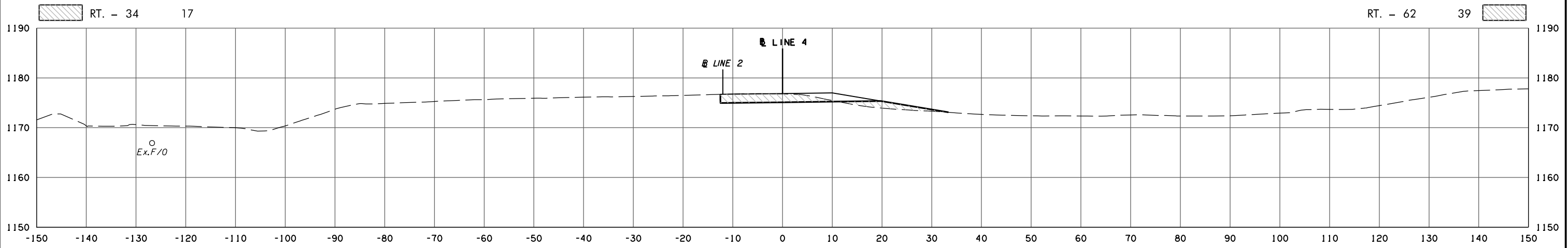
364 + 50.00

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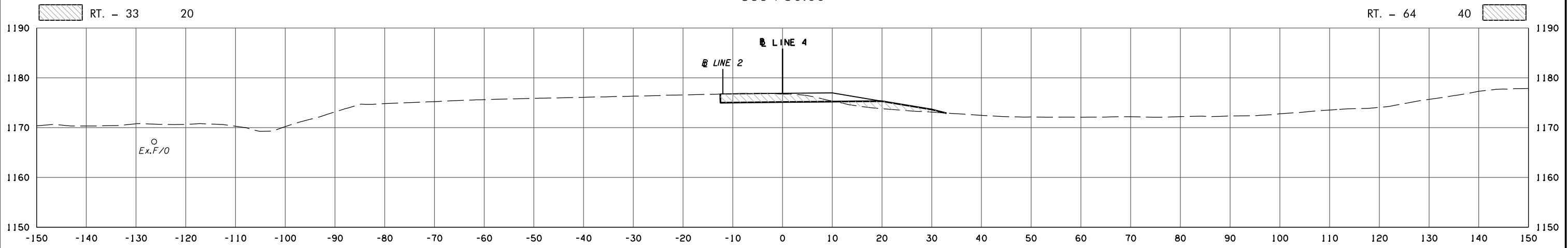
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

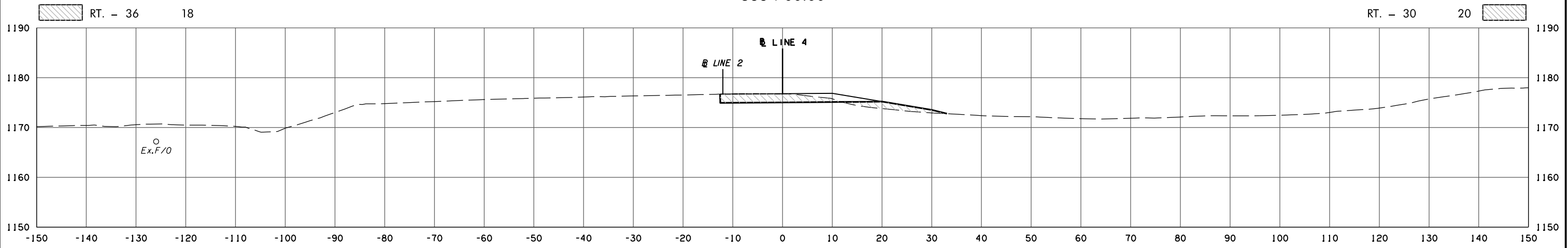
VOLUME
CUT FILL



366+50.00



366+00.00



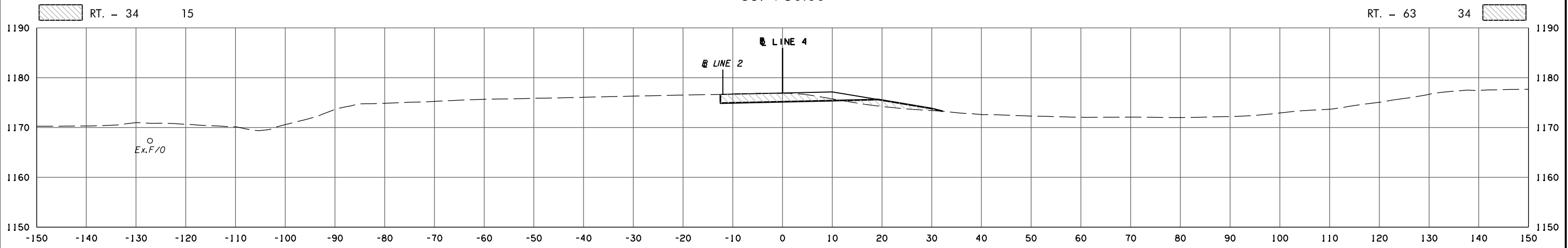
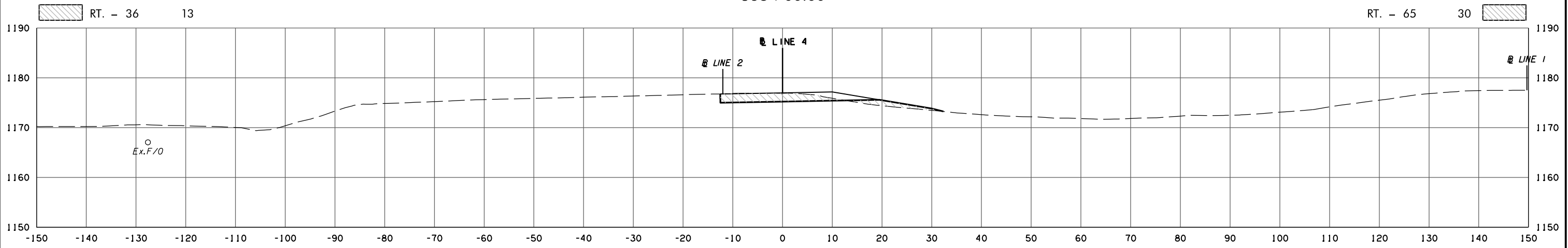
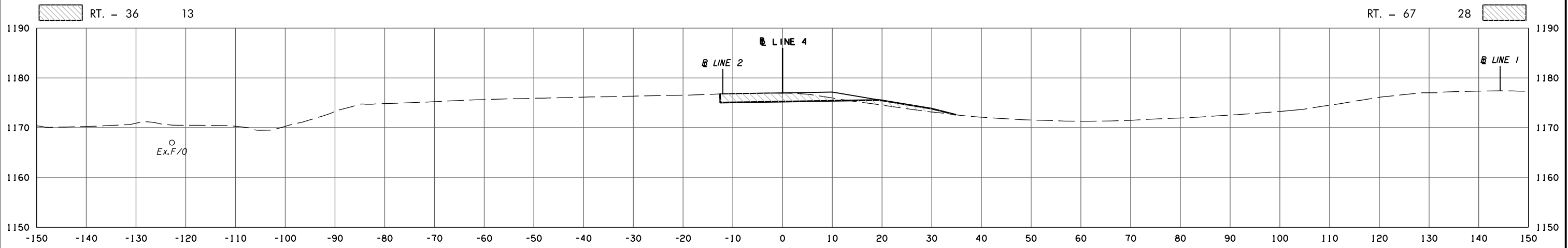
365+50.00

9/1/2017 6:45:01 AM H:\PROJECTS\203078_0001_EC-161\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

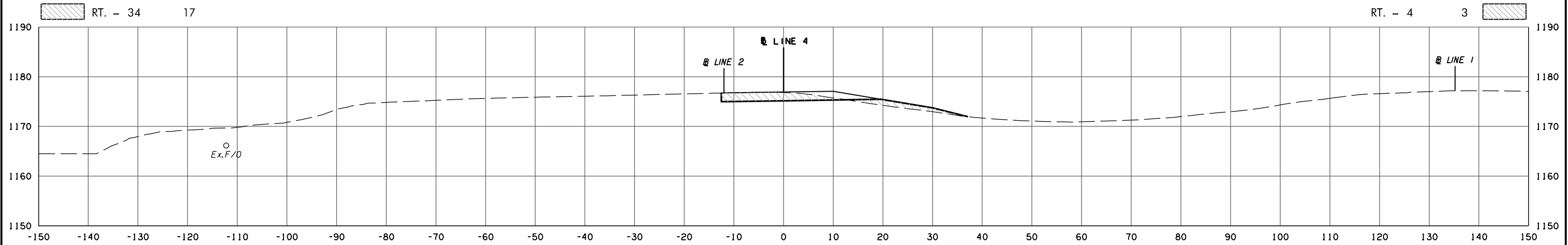


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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION		REVISIONS	DATE			

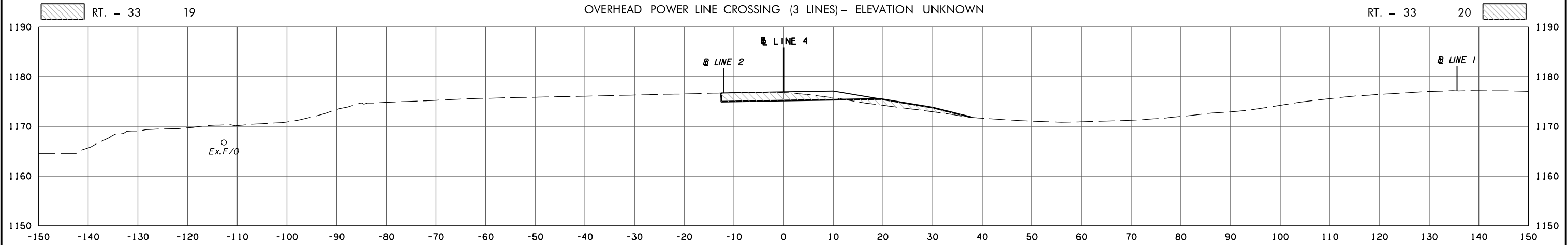
AREA
CUT FILL

VOLUME
CUT FILL



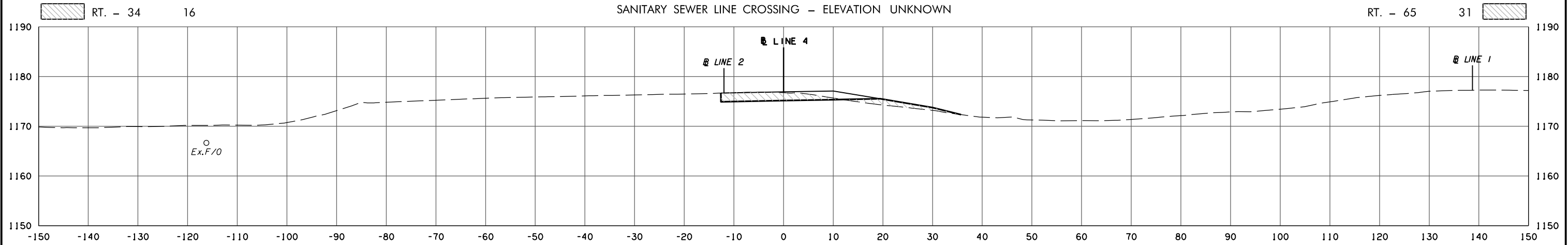
368 + 80.32

OVERHEAD POWER LINE CROSSING (3 LINES) - ELEVATION UNKNOWN



368 + 76.87

SANITARY SEWER LINE CROSSING - ELEVATION UNKNOWN



368 + 50.00

LINE 4

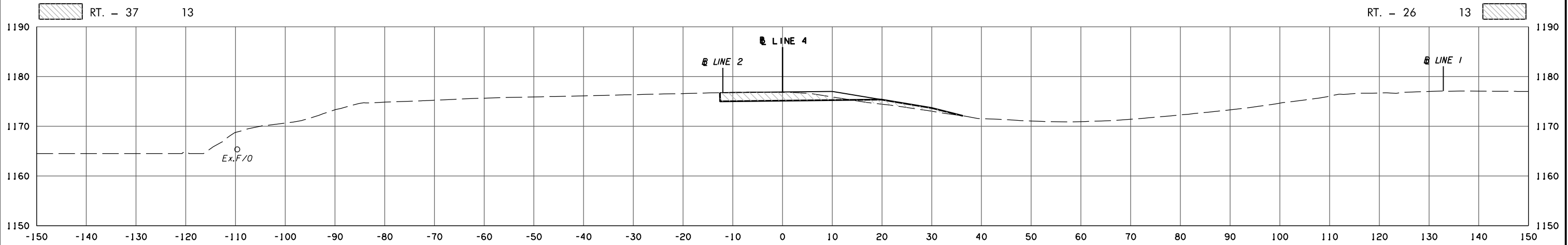
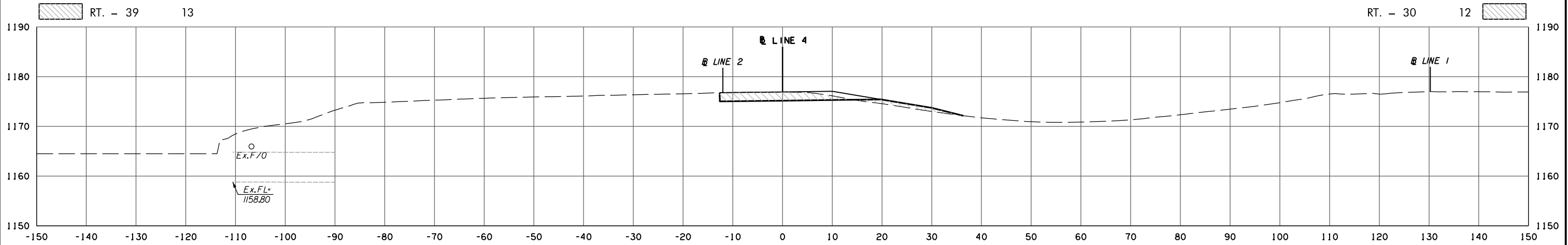
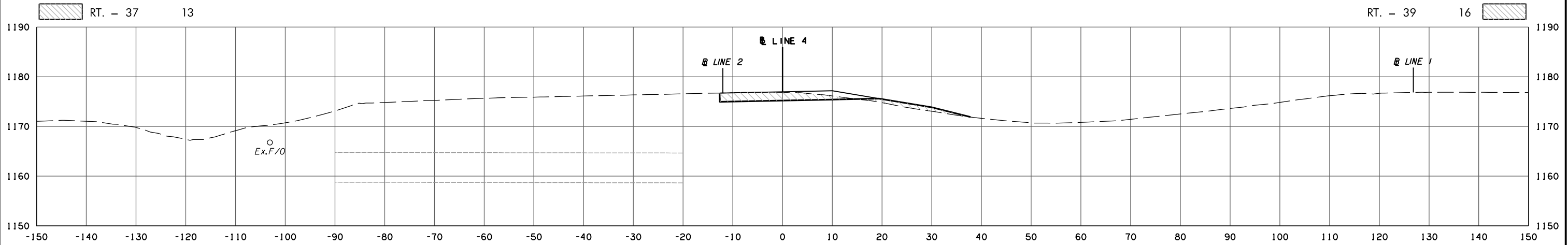
STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X98

9/1/2017 6:45:03 AM H:\PROJECTS\203078 0001 EC-1611\Roadway\Drawings\XSections\30444(06).XSEC.dgn

POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

VOLUME
CUT FILL

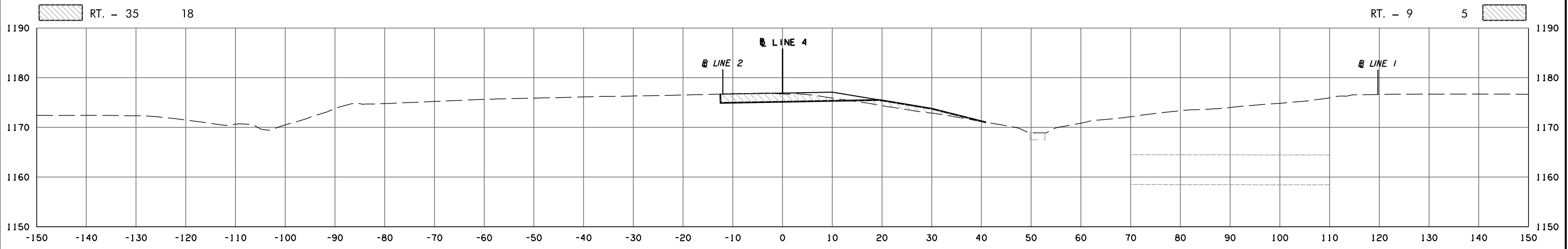


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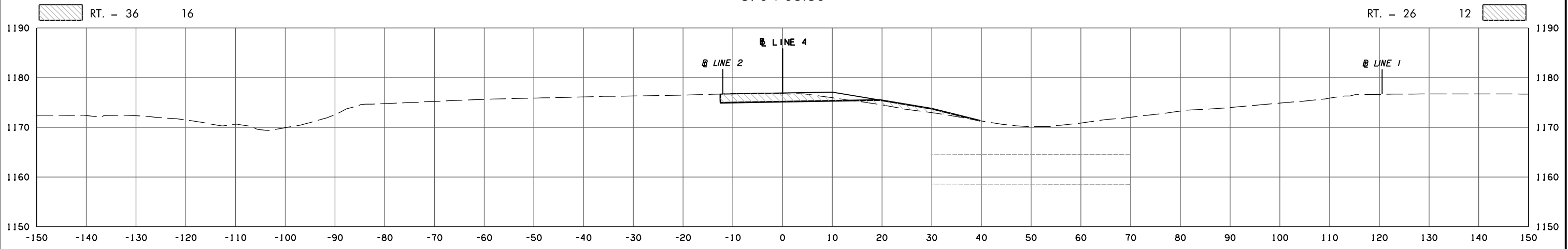
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

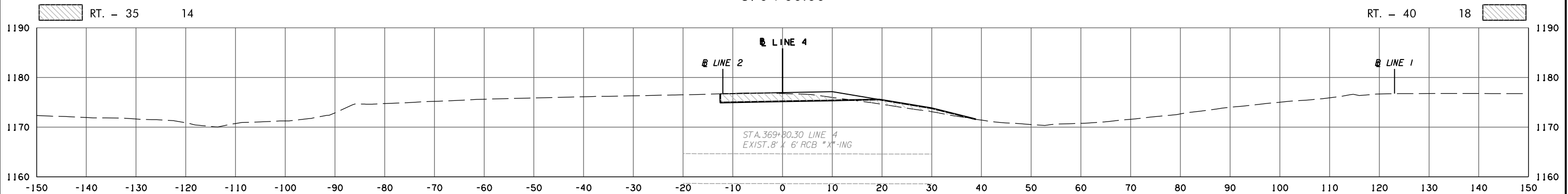
VOLUME
CUT FILL



370+06.60



370+00.00



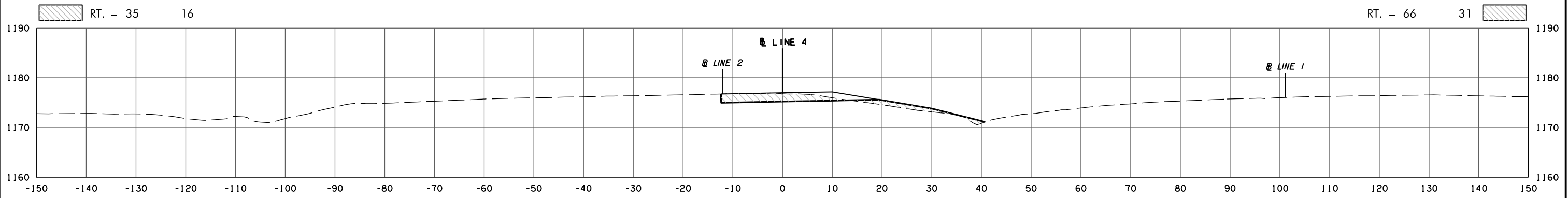
369+80.30

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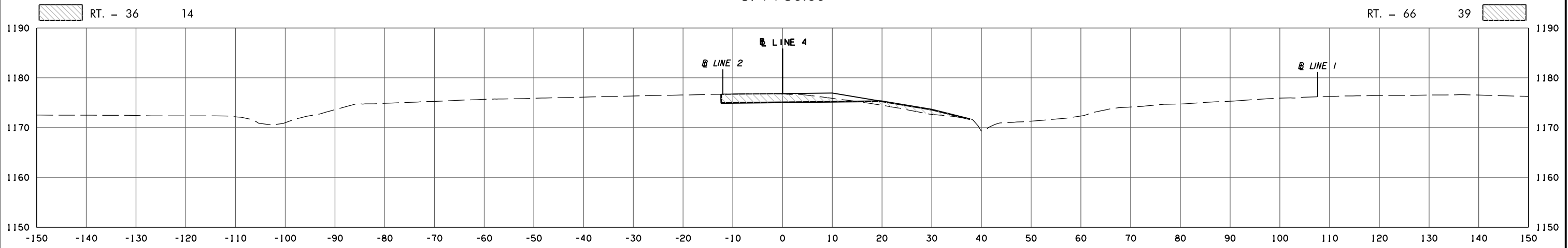
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

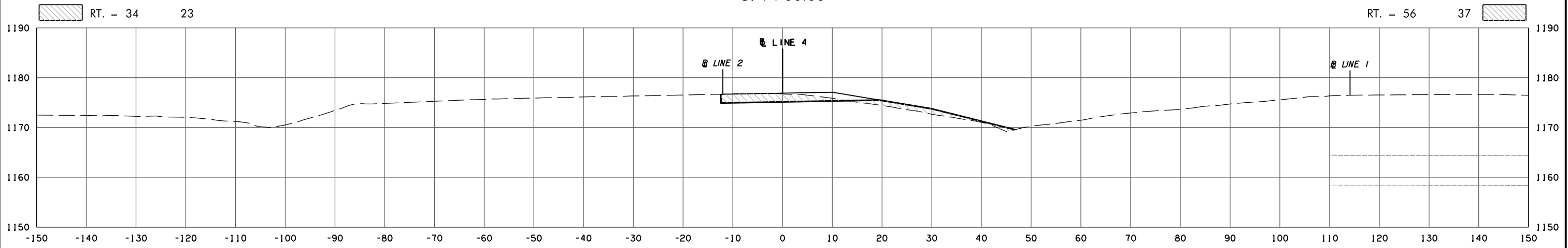
VOLUME
CUT FILL



371+50.00



371+00.00



370+50.00

LINE 4

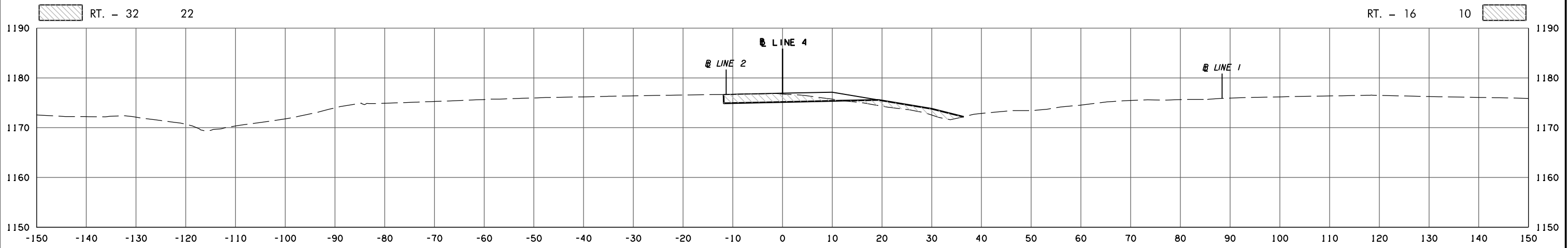
STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X101

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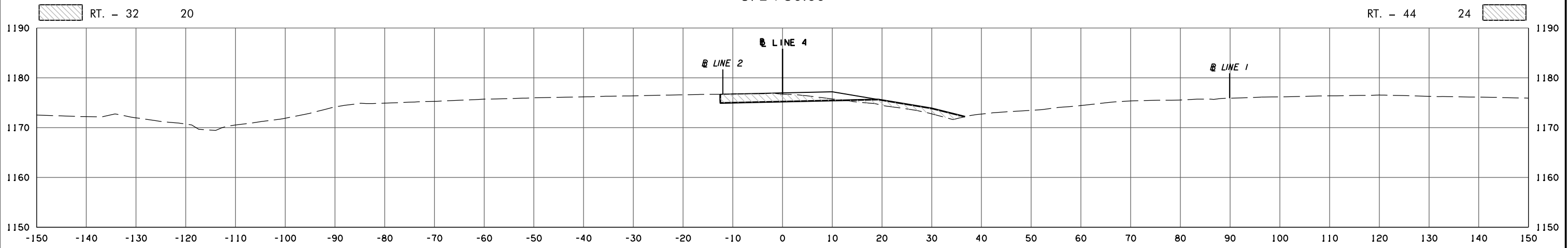
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

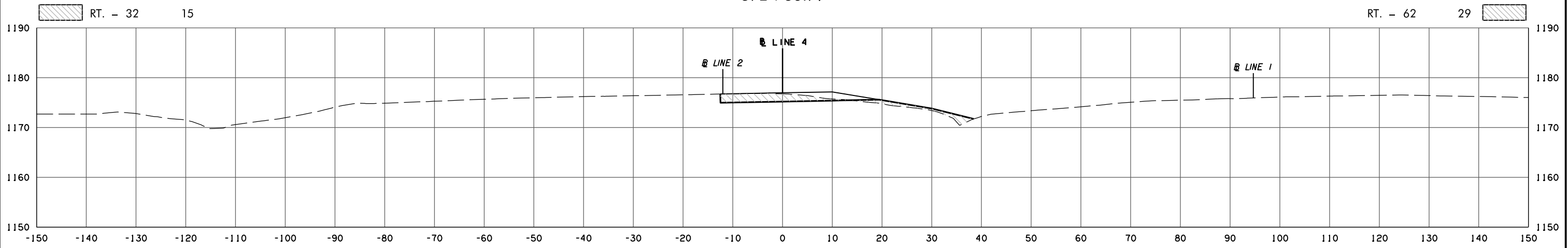
VOLUME
CUT FILL



372+50.00



372+36.79



372+00.00

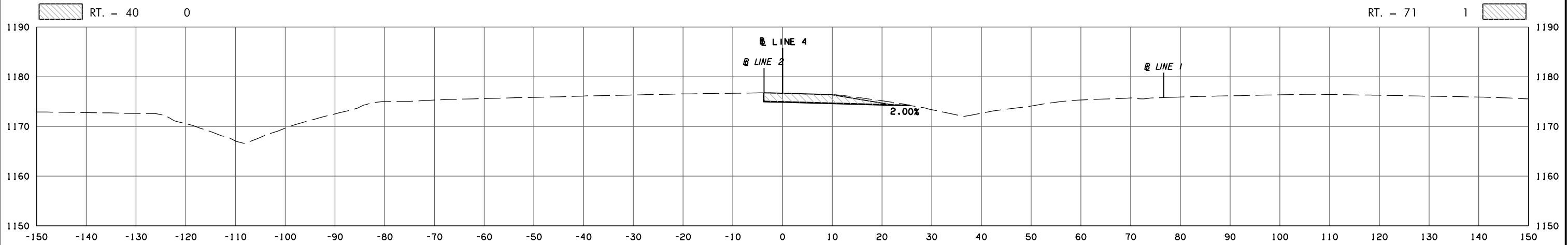
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LINE 4 STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X102

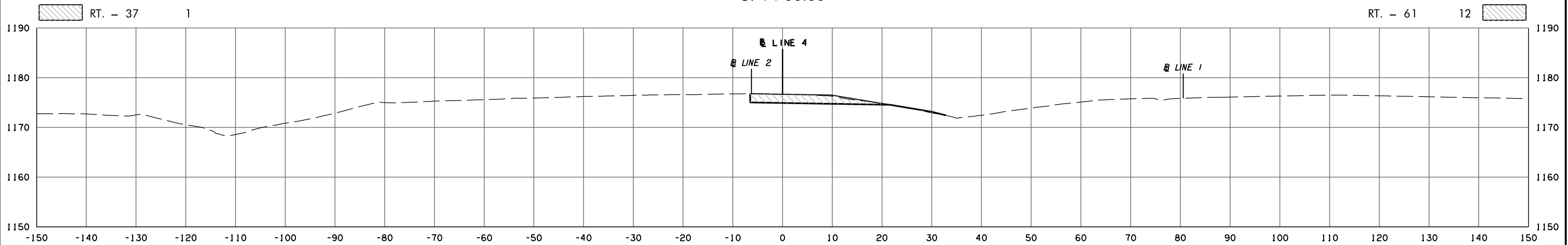
POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. DIST. NO.	ROAD NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6		OKLA.				
DESCRIPTION			REVISIONS		DATE	

AREA
CUT FILL

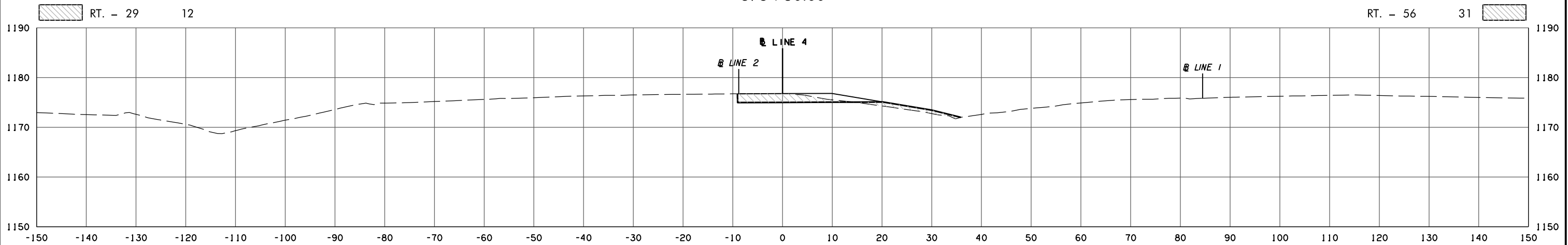
VOLUME
CUT FILL



374+00.00



373+50.00



373+00.00

LINE 4

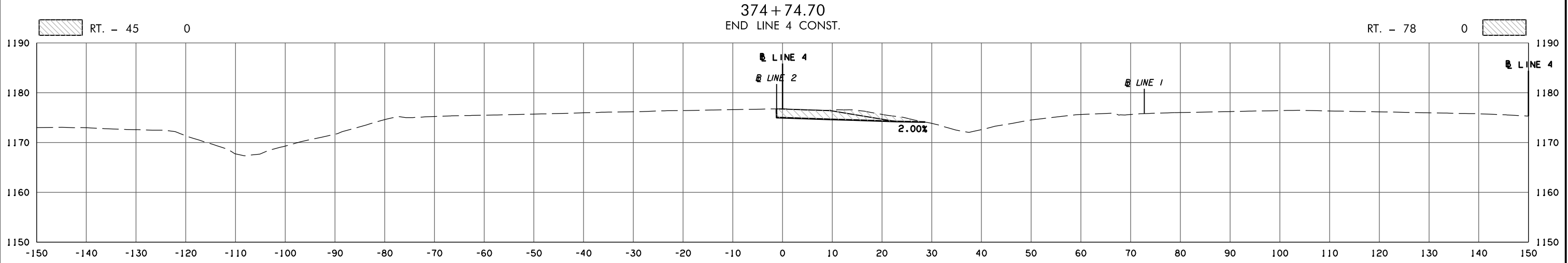
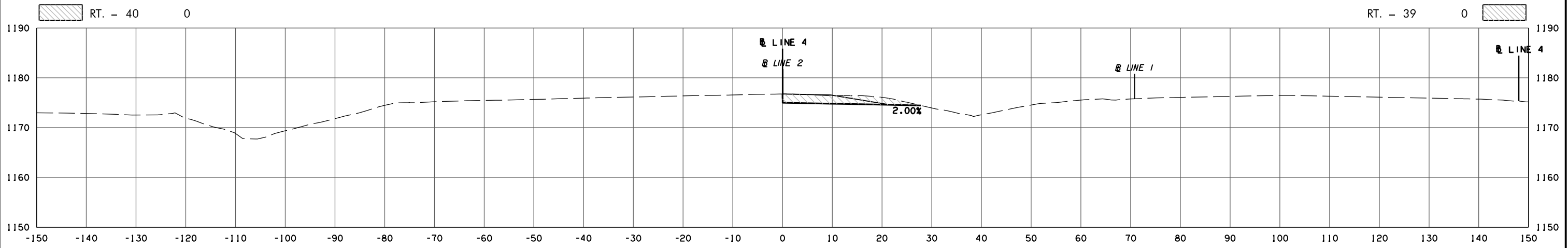
STATE JOB NO. 30444(06)
OKLAHOMA COUNTY SHEET NO. X103

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POB & ASSOCIATES, OKLAHOMA CITY, OK.						
FED. ROAD DIST. NO.	STATE	JOB PIECE NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS	
6	OKLA.					
DESCRIPTION			REVISIONS	DATE		

AREA
CUT FILL

VOLUME
CUT FILL



9/1/2017 6:45:08 AM
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