# HIGHWAY 9 SIDEWALK **IMPROVEMENTS** STATE

# STATE OF OKLAHOMA CLEVELAND COUNTY

PLANS OF PROPOSED

# SIDEWALK IMPROVEMENTS

STATE JOB NO. 26879(04)

## VICINITY MAP

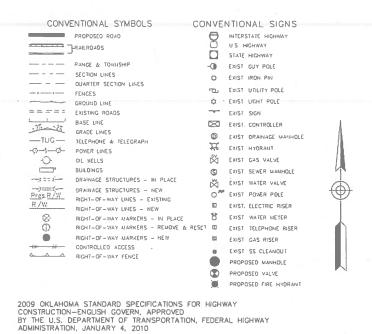
#### SURVEY CONTROL DATA

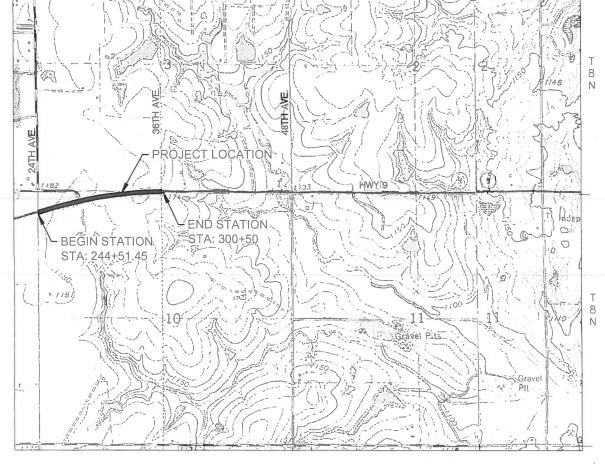
1. HORIZONTAL AND VERTICAL CONTROL:

HORIZONTAL CONTROL FOR THIS SURVEY IS THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, (NAD 83 AND NAVD 88).

2. BASIS OF BEARINGS:

NAD83, OKLAHOMA STATE PLANE SOUTH ZONE





R-2-W

### CONVENTIONAL SIGNS LEGEND

INTERSTATE HIGHWAY
U.S. HIGHWAY
STATE HIGHWAY

ROADWAY LENGTH: \_\_\_\_\_5600 FT.\_\_\_1.10 MILES BRIDGE LENGTH: \_\_\_\_\_\_0.00 FT.\_\_\_\_0.00 MILES

> EQUATIONS: NONE **EXCEPTIONS: NONE**

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	0

PREPARED BY: CARDINAL ENGINEERING, INC. CA NO. 7110, RENEWAL 06.30.18

CARDINAL M. Joshen Riley M. JOSHUA RISLEY

CHIEF ENGINEER

OKLAHOMA
DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

DATE

08-04-2017

DATE APPROVED DIVISION ADMINISTRATOR

## UTILITY LOCATION NUMBERS

STATE-WIDE 1-800-522-6543 OUT-OF-STATE 1-800-654-8249

THESE NUMBERS ARE TO BE USED FOR INFORMATION ON THE LOCATION OF ALL UNDERGROUND UTILITIES.
CONTACT THESE NUMBERS PRIOR TO ANY EXCAVATION THE FOLLOWING STANDARDS WILL BE REQUIRED FOR THIS PROJECT.

TSC2-3-2 TFL-1-1 LECS-4-1 WCR-3-1 TWD-1-0 PCES-4-1

STATE HIGHWAY 9

CITY OF NORMAN

STP-114E(258)EH

R-2-W

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APPROVED BY

APPROVED BY:

Sheet List Table

Sheet Title

STORM WATER MANAGEMENT PLAN

PROF. 10+00.00 TO 15+00.00 PROF 15+00.00 TO 21+00.00 PROF 21+00.00 TO 27+00.00 PROF 27+00.00 TO 33+00.00 PROF 33+00.00 TO 39+00.00 PROF 39+00.00 TO 45+00.00 PROF 45+00.00 TO 51+00.00 PROF 51+00.00 TO 57+00.00

PROF 57+00.00 TO 63+00.00 PROF 63+00.00 TO 64+08.59

X-SEC 244+00 TO 253+50

X-SEC 254+00 TO 263+50

X-SEC 264+00 TO 273+50

X-SEC 274+00 TO 283+50

X-SEC 284+00 TO 293+50

X-SEC 294+00 TO 299+00

CIVIL DETAILS

CIVIL DETAILS

NOTES AND QUANTITIES SUMMARY OF QUANTITIES

TITLE SHEET

Sheet Number

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REGISTERED PROFESSIONAL ENGINEER NO. 24102

TRANSPORTATION ENGINE

DIRECTOR OF PUBLIC WORKS

DATE APPROVED

0100 ROA	ADWAY	PAY QUANTITIES			
ПЕМ	l No	DESCRIPTION	UNITS	QUANTITY	
201(A)	0102	CLEARING AND GRUBBING	(7)	LSUM	1
202(A)	0183	UNCLASSIFIED EXCAVATION (	1) (7) (15)	CY	5228
205(A)	4229	TYPE A-SALVAGED TOPSOIL	(7)	LSUM	1
221(C)	2801	TEMPORARY SILT FENCE	(8) (9)	L.F.	5330
230(A)	2806	SOLID SLAB SODDING	(3) (10)	SY	7892
231(A)	4567	TREES		EA	3
504(F)	6006	HANDRAILING		LF	530
510(A)	6333	RETAINING WALL		SY	232
601(A)	0297	TYPE I PLAIN RIPRAP		TON	11.25
609(A)	0300	CONCRETE CURB (6" BARRIER-INTEGRAL)	LF	258	
610(A)	0604	5" CONCRETE SIDEWALK	(6)	SY	5886
610(A)	0605	6" CONCRETE SIDEWALK	(6)	SY	667
610(I)	4610	TACTILE WARNING DEVICE-NEW		SF	6
611(A)	2657	MANHOLE (4' DIAMETER)		EA	1
612(A)	0641	MANHOLE ADJUST TO GRADE		EA	1
613(A)	0492	24' R.C. PIPE CLASS III	(2)	LF	94
613(L)	5730	24" PREFAB. CULVERT END SECTION, ROUND		EA	2
611(G)	6002	INLET (SMD-TYPE 2)		EA	1
619(A)	0920	REMOVAL OF STRUCTURES & OBSTRUCTIONS (4)	(12) (13)	LSUM	1
619(B)	4726	REMOVAL OF CURB AND GUTTER	(13)	LF	258
619(B)	4727	REMOVAL OF CONCRETE PAVEMENT (13)			1044
619(C)	0924	SAWING PAVEMENT		LF	430
631(A)	0210	(SP) REMOVABLE BOLLARD		EA EA	6
643	0500	WIRELESS SOLAR LIGHTING (14)			182
829(A)	8200	(PL) PEDESTRIAN/CYCLIST COUNTER	EA	1	
880(J)	8905	CONSTRUCTION TRAFFIC CONTROL	(17)	LSUM	1
882(A)	8306	PORT. CHANGEABLE MESSAGE SIGN	(16)	SD	180

R.C. PIPE NOTE: BACKFILL MATERIAL WILL BE INSTALLED AS DESCRIBED BY THE CITY STANDARD SD 01 "STORM SEWER PIPE TRENCHING AND BEDDING"

#### PAY QUANTITY NOTES:

- (1) 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.
- (2) TO BE PAID PER FIELD MEASUREMENT OF THE WORK COMPLETED. SOME FINAL QUANTITIES MAY BE LESS THAN AND SOME MORE THAN THE QUANTITIES LISTED ON THE BID SCHEDULE. THE COST OF TRENCHING, BACKFILL, BEDDING, ETC. ARE TO BE INCLUDED IN THE COST PER LINEAR FOOT.
- (3) ALL NON PAVED NEWLY GRADED AREAS SHALL RECEIVE SOLID SLAB COVER AFTER FINAL GRADING.
- (4) INCLUDES REMOVAL OF ALL EXISTING CULVERTS, HEADWALLS, END TREATMENTS, AND DRAINAGE STRUCTURES TO BE REPLACED.
- (5) CONCRETE CURBS & GUTTERS SHALL BE CONSTRUCTED TO STANDARDS AS OUTLINED IN THE CITY OF NORMAN STANDARD SPECIFICATIONS AND CONSTRUCTION DRAWINGS, BUT MAY BE ALTERED AS DIRECTED BY THE ENGINEER.
- (6) INCLUDES CONCRETE, SUB-BASE COMPACTION TO 95% SPD, BACKFILL, EXPANSION JOINT FILLER, SEALERS, CONTROL CRACK JOINTS, FIBERMESH AND OTHER MISCELLANEOUS ITEMS NEEDED FOR CONSTRUCTION OF THIS PAY ITEM.
- (7) THE CONTRACTOR SHALL STRIP ALL OF THE AVAILABLE TOPSOIL WITHIN THE LIMITS OF CONSTRUCTION, ANY UNUSED TOPSOIL, STOCKPILE THE MATERIAL AND REPLACE THE TOPSOIL ON THE FINISHED SLOPES OF THE GRADING SECTION. ALL ADDITIONAL COSTS NOT COVERED IN OTHER ITEMS SHALL BE INCLUDED IN THE LUMP SUM TOPSOIL ITEM AS FOLLOWS

# EXCAVATION SECTIONS: THE VOLUME OF TOPSOIL IS INCLUDED IN THE UNCLASSIFIED EXCAVATION QUANTITIES. CONTRACTORS ARE TO INCLUDE ANY ADDITIONAL COSTS TO REMOVE, STOCKPILE AND REPLACE THE MATERIAL ON THE FINISHED GRADING SLOPES, IN THE LUMP

#### EMBANKMENT SECTIONS:

- DETERMINE THE AMOUNT OF TOPSOIL IN THESE AREAS AND INCLUDE ALL COSTS TO REMOVE, STOCKPILE AND REPLACE THE MATERIAL ON THE FINISHED GRADING SLOPES, IN THE LUMP SUM TOPSOIL ITEM.
- (8) ESTIMATED QUANTITY, TO BE USED FOR TEMPORARY EROSION AND SEDIMENT IN A MANNER APPROVED BY THE ENGINEER. SEE STD. TSC1-2 & TSC2-2. ITEM TO INCLUDE SEDIMENT REMOVAL.
- (9) TO BE USED FOR EROSION & SEDIMENT CONTROL IN A MANNER APPROVED BY THE ENGINEER.
- (10) PRICE BID TO INCLUDE COST OF WATERING. WATERING EST. AT 40 GALLONS PER SQ. YD. FOR ESTIMATING PURPOSES ONLY. CONTRACTOR WILL PROVIDE SUFFICIENT WATER TO PRODUCE ADEQUATE GRASS GROWTH AS APPROVED BY THE ENGINEER.
- (11) PAY ITEM FOR STAKING INCLUDES ALL STAKING REQUIRED TO CONSTRUCT THE PROJECT INCLUDING RIGHT-OF-WAY STAKING.
- (12) MATERIALS REMOVED SHALL NOT BE MEASURED FOR PAYMENT UNDER SEC. 202.06 UNCLASSIFIED EXCAVATION.
- (13) TO BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF BY HIM IN A MANNER APPROVED BY THE ENGINEER.
- (14) SOLARIGHT MODEL GF8 OR APPROVED EQUAL.
- (15) PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS
- (16) 90 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 0.D.O.T. STANDARDS AND SUGGESTED CONSTRUCTION SEQUENCE FOR THIS PROJECT. THESE ESTIMATED SIGN DAY QUANTITIES MAY CHANGE AS THE PROJECTS CONSTRUCTION TRAFFIC CONTROL IS MODIFIED DURING CONSTRUCTION.
- (17) SEE DETAIL TA-3 ON SHEET 21 FOR TRAFFIC CONTROL DETAIL. CONTRACTOR TO REMOVE ALL EQUIPMENT, MATERIALS AND TRAFFIC CONTROL DEVICES FROM THE SHOULDER OVER NIGHT.
- (18) CONTRACTOR SHALL PROVIDE ECO-COUNTER URBAN POST MULTI PEDESTRIAN/BIKES WITH PYRO SENSOR (2 ZELT LOOPS).
  COUNTER TO BE SET AT 15 MINUTE DATA RECORDING INTERVALS. SEE SPECIAL PROVISION FOR PEDESTRIAN COUNTER.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.	26879(04)		2	22

0640 CON	STRUCT	ON PAY QUANTITIES		
ПЕМ	1 No	DESCRIPTION	UNITS	QUANTITY
220	2800	SWPPP DOCUMENTATION AND MANAGEMENT	LSUM	1
641	1399	MOBILIZATION	LSUM	1

0600 STAKING	PAY QUANTITIES		
ITEM No	DESCRIPTION	UNITS	QUANTITY
642(B) 0096	CONSTRUCTION STAKING LEVEL II (11)	LSUM	1

#### GENERA

THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL TRAFFIC AND WILL MAINTAIN THROUGH TRAFFIC

CONTRACTOR SHALL CONTACT THE CITY OF NORMAN AT EARLIEST CONVENIENCE SHOULD ANY CIRCUMSTANCES FOUND DURING THE COURSE OF PROJECT COMPLETION NECESSITATE A VARIANCE FROM THE PLANS. VARIANCE FROM THE PLANS WILL BE REVIEWED BY THE CITY.

CONSTRUCTION OF ALL EROSION CONTROL MEASURES SHALL BE PERFORMED BY THE CONTRACTOR PRIOR TO THE INITIATION OF ANY LAND DISTURBING ACTIVITIES. INSPECTION OF THESE STRUCTURES MAY BE PERFORMED BY STATE AND MUNICIPAL AUTHORITIES. MAINTENANCE OF EROSION CONTROL MEASURES SHALL BE PERFORMED BY THE CONTRACTOR AT A SUFFICIENT INTERVAL TO ENSURE RETENTION OF SEDIMENTS.

THE CONTRACTOR SHALL NOTIFY THE ELECTRIC COMPANY OF ANY SHIELDING REQUIRED ON OVERHEAD POWER LINES THAT MAY CROSS THE WORK AREA. THE CONTRACTOR SHALL PROCEED WITH GREAT CARE TO AVOID ANY CONTACT WITH THE OVERHEAD POWER LINES.

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 ITEM OF WORK.

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

THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROP—OFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR REVIEW BEFORE OPERATIONS BEGIN.

THE CONTRACTOR SHALL KEEP OPEN TRENCHES DRAINED. COST TO BE INCLUDED IN PRICE BID FOR UNCLASSIFIED EXCAVATION.

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

ACCESS TO DRIVES AND INTERSECTING STREETS SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR SHALL GIVE NOTICE TO THE CITY OF NORMAN, IN WRITING, FOURTEEN (14) CALENDAR DAYS BEFORE WORK BEGINS ON THE PROJECT.

THE FOLLOWING ITEMS WILL BE THE RESPONSIBILITY OF THE CITY OF NORMAN AND NOT A PART OF THIS CONTRACT: RIGHT—OF—WAY ACQUISITION UTILITY RELOCATION

#### EROSION CONTROL CONSTRUCTION NOTES

VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE 'MULCHING TILLER METHOD', AS SPECIFIED IN SEC. 233. 0(B)1 STANDARD SPECIFICATIONS.

Design								
Drawn	JRA	NOTES AND QUANTITIES						
Checked	JRA	NOTES AND QUANTITIES						
Approved	WRS							
Squad		STATE JOB NO. 26879(04)	Sheet No	2				

	SUMMARY OF DRIVEWAYS												
P&P STATION OFF: LENGTH DRIVE RADIUS 53 ASPHALI (PL 55 ASPHALI (PL COAT CALL) TONS CONCRESSION OF COAT CALL (CALL) TONS CONCRES										6" PC CONCRETE DRIVE (SY)			
4	27+66.25	LT	56.0	37.0	30.0	0.0	0.0	0.0	0.0	63.9	203.0		
5	36+15.46	LT	30.8	26.0	30.0	0.0	0.0	0.0	0.0	41.6	132.0		
6	40+39.76	LT	30.4	12.0	25.0	0.0	0.0	0.0	0.0	23.3	74.0		
9	63+12.86	LT	30.0	62.0	50.0	0.0	0.0	0.0	0.0	81.3	258.0		
TOTALS		,	,			0.0	0.0	0.0	0.0	210.1	667.0		

	SUMMARY OF REMOVALS											
P&P SHEET	STATION	I TO :	STATION	REMOVAL OF CONCRETE PAVEMENT	REMOVAL OF ASPHALT PAVEMENT	SAWING PAVEMENT	REMOVAL OF CURB & GUTTER					
				(SY)	(SY)	(LF)	(LF)					
4	27+00.00	-	33+00.00	233.9	0.0	95.9	75.0					
5	33+00.00	-	39+00.00	437.0	0.0	107.0	69.0					
6	39+00.00	-	45+00.00	74.0	0.0	70.1	44.0					
9	57+00.00	-	63+00.00	299.1	0.0	157.0	70.0					
TOTAL	S			1044.0	0.0	430.0	258.0					

SUMMARY OF EARTHWORK									
STATIO	N TO S	STATION	TOTAL CUT VOLUME	TOTAL FILL VOLUME +15%	EXTRA CUT	EXTRA FILL			
				(C.Y.)	(C.Y.)	(C.Y.)			
10+00.00	TO	15+00.00	94.9	469.3	0.0	374.4			
15+00.00	TO	21+00.00	53.2	599.0	0.0	545.8			
21+00.00	TO	27+00.00	279.8	25.6	254.2	0.0			
27+00.00	TO	33+00.00	522.4	21.6	500.8	0.0			
33+00.00	TO	39+00.00	1031.8	84.0	947.9	0.0			
39+00.00	TO	45+00.00	392.6	31.3	361.3	0.0			
45+00.00	TO	51+00.00	613.5	9.0	604.5	0.0			
51+00.00	TO	57+00.00	157.4	136.9	20.6	0.0			
57+00.00	TO	63+00.00	48.7	640.4	0.0	591.7			
63+00.00	TO	64+08.59	0.2	16.0	0.0	15.8			
	TOTAI		3194.5	2033.0	2689.3	1527.7			

SUMMARY OF SIDEWALK										
STATIO	N TO S	TATION	SIDEWALK (5')	SIDEWALK (10')						
			(LF.)	(LF.)						
10+00.00	TO	14+19.89	80.0	419.9						
14+19.89	TO	20+95.15		675.3						
20+95.15	TO	27+15.02		619.9						
27+15.02	TO	32+95.36		464.8						
32+95.36	TO	38+03.30		447.1						
38+03.30	TO	44+38.97		622.0						
44+38.97	TO	50+56.92		618.0						
50+56.92	TO	55+27.31		470.4						
55+27.31	TO	62+55.95		728.6						
62+55.95	TO	63+72.67		5.2						
	TOTAI	_		5071.1						

	SUMMARY OF EROSION CONTROL												
P&P SHEET	STATION	то	STATION	SLAB SOD	TEMP. SILT FENCE	TEMP. SILT DIKE	TEMP. INLET SEDIMENT FILTER						
				(SY)	(LF)	(LF)	(EACH)						
1	10+00.00	-	15+00.00	986.0	435.1	0.0	0.0						
2	015+00.00	-	21+00.00	1113.5	584.3	0.0	0.0						
3	021+00.00	-	27+00.00	509.5	685.0	0.0	1.0						
4	027+00.00	-	33+00.00	591.6	474.7	0.0	0.0						
5	033+00.00	-	39+00.00	1589.6	529.6	0.0	1.0						
6	039+00.00	-	45+00.00	583.9	535.2	0.0	0.0						
7	045+00.00	-	51+00.00	512.1	599.4	0.0	0.0						
8	051+00.00	-	57+00.00	730.8	841.2	0.0	0.0						
9	057+00.00	-	63+00.00	1275.4	645.5	0.0	0.0						
10	063+00.00	-	64+08.59	0.0	0.0	0.0	0.0						
TOTAL	S			7892.4	5330.0	0.0	2.0						

UME ESTIMATES.
UNCLASSIFIED
NCE THEIR
AVAILABLE FROM
OR ALL PHASES

Design		
Orawn	JRA	
Checked	JRA	
Approved	WDC	

SUMMARY OF QUANTITIES

Squad STATE JOB NO. 26879 (04)

Sheet No. <u>3</u>

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	OKLA.	26879(04)		4	22

## STORM WATER MANAGEMENT PLAN

#### SITE DESCRIPTION PROJECT LIMITS: NORTH SIDE OF STATE HIGHWAY 9 BETWEEN 24TH AVE. SE AND 36TH AVE. SE SOIL STABILIZATION PRACTICES: PROJECT DESCRIPTION: NEW 10' WIDE SIDEWALK WITH ASSOCIATED GRADING, CURB RAMPS AND RETAINING WALLS. TEMPORARY SEEDING X PERMANENT SODDING, SPRIGGING OR SEEDINGVEGETATIVE MULCHINGSOIL RETENTION BLANKETPRESERVATION OF EXISTING VEGETATION NOTE: TEMPORARY EROSION CONTROL METHODS MUST BE USED ON SUGGESTED SEQUENCE OF EROSION CONTROL ACTIVITIES: ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED INSTALL TEMPORARY SILT FENCE, INLET SEDIMENT FILTER AND STABALIZED FOR OVER 14 DAYS. METHODS USED WILL BE AS SHOWN ON PLANS, OR AS DIRECTED BY THE ENGINEER. CONSTRUCTION EXIT. INSTALL RIPRAP. PERMANENT SODDING. STRUCTURAL PRACTICES: X STABILIZED CONSTRUCTION EXIT X TEMPORARY SILT FENCE \_\_\_\_\_ TEMPORARY SILT DIKES \_\_\_\_\_ TEMPORARY FIBER LOG \_ DIVERSION, INTERCEPTOR OR PERIMETER DIKES \_\_\_\_\_ DIVERSION, INTERCEPTOR OR PERIMETER SWALES SOIL TYPE: GROUP D \_\_\_\_\_ ROCK FILTER DAMS TOTAL AREA OF THE CONSTRUCTION SITE: 3.06 ACRES \_\_\_\_\_ TEMPORARY SLOPE DRAIN PAVED DITCH W/ DITCH LINER PROTECTION \_\_\_\_\_ TEMPORARY DIVERSION CHANNELS ESTIMATED AREA TO BE DISTURBED: 2.95 ACRES \_\_\_\_\_ TEMPORARY SEDIMENT BASINS OFFSITE AREA TO BE DISTURBED: 0.11 ACRES \_\_\_ TEMPORARY SEDIMENT TRAPS (FOR CONTRACTOR USE) TEMPORARY SEDIMENT FILTERS TOTAL IMPERVIOUS AREA \_ TEMPORARY SEDIMENT REMOVAL PRE-CONSTRUCTION: 0.082 ACRES X RIP RAP TOTAL IMPERVIOUS AREA POST-CONSTRUCTION: 1.21 ACRES X INLET SEDIMENT FILTER \_\_\_ TEMPORARY BRUSH SEDIMENT BARRIERS POST-CONSTRUCTION RUNOFF \_\_ SANDBAG BERMS COEFFICIENT OF THE SITE: 0.56 \_ TEMPORARY STREAM CROSSINGS OF CENTER OF PROJECT: 35°11'22"N , 97°23'51"W PROJECT WILL DISCHARGE TO: OFFSITE VEHICLE TRACKING: NAME OF RECEIVING WATERS: HAUL ROADS DAMPENED FOR DUST CONTROL \_\_X\_\_ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN NO X SENSITIVE WATERS OR WATERSHEDS: X EXCESS DIRT ON ROAD REMOVED DAILY 303(d) IMPAIRED WATERS: NO X IF YES, LIST IMPAIRMENT: NOTES: YES 🗌 NO X LOCATED IN A TMDI: LAKE THUNDERBIRD TMDL: YES X NO MS4 ENTITY NO X IF YES, LOCATION: 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**

### 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:**

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

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

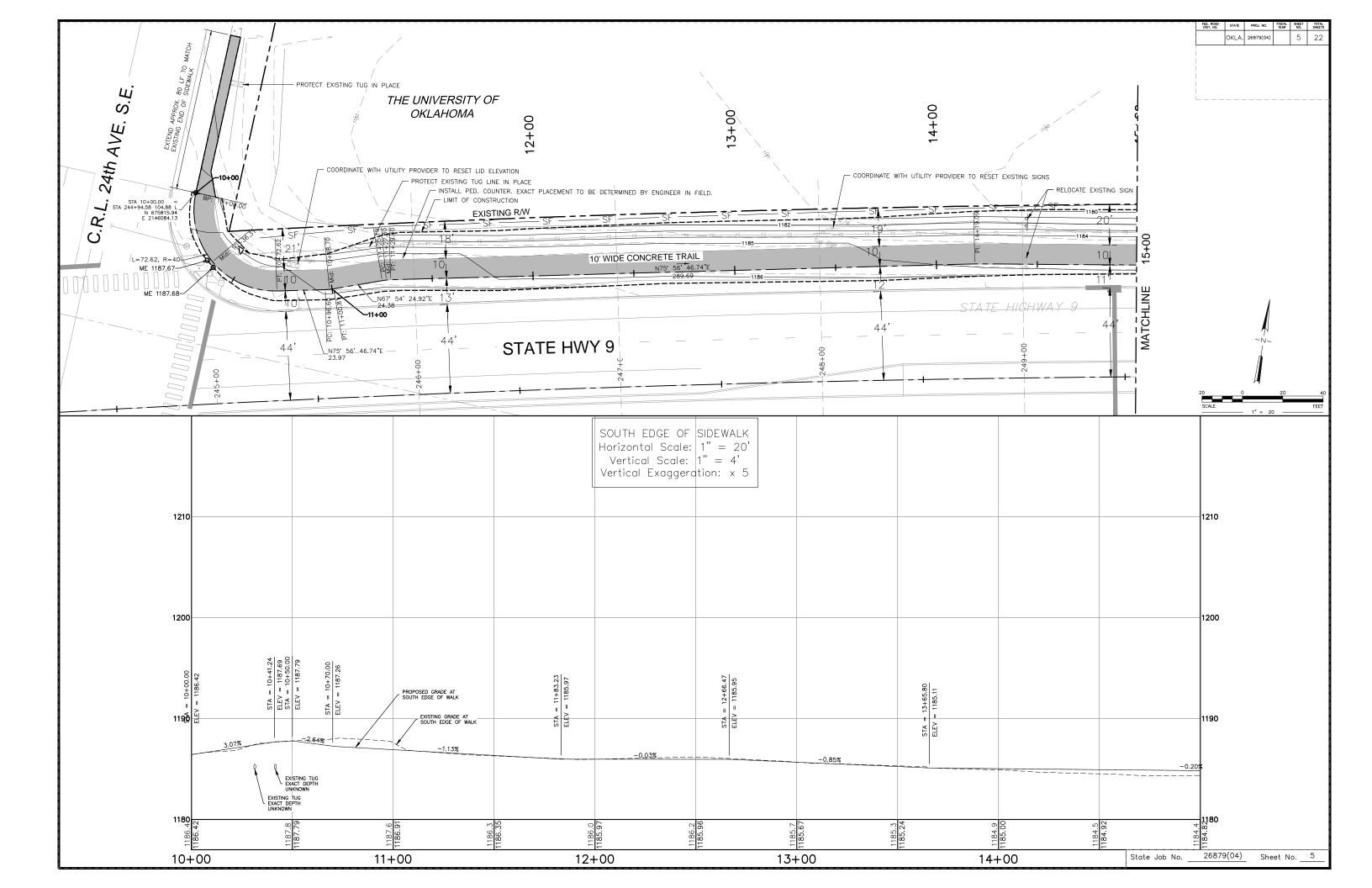
REVISED 08 / 18 / 2017

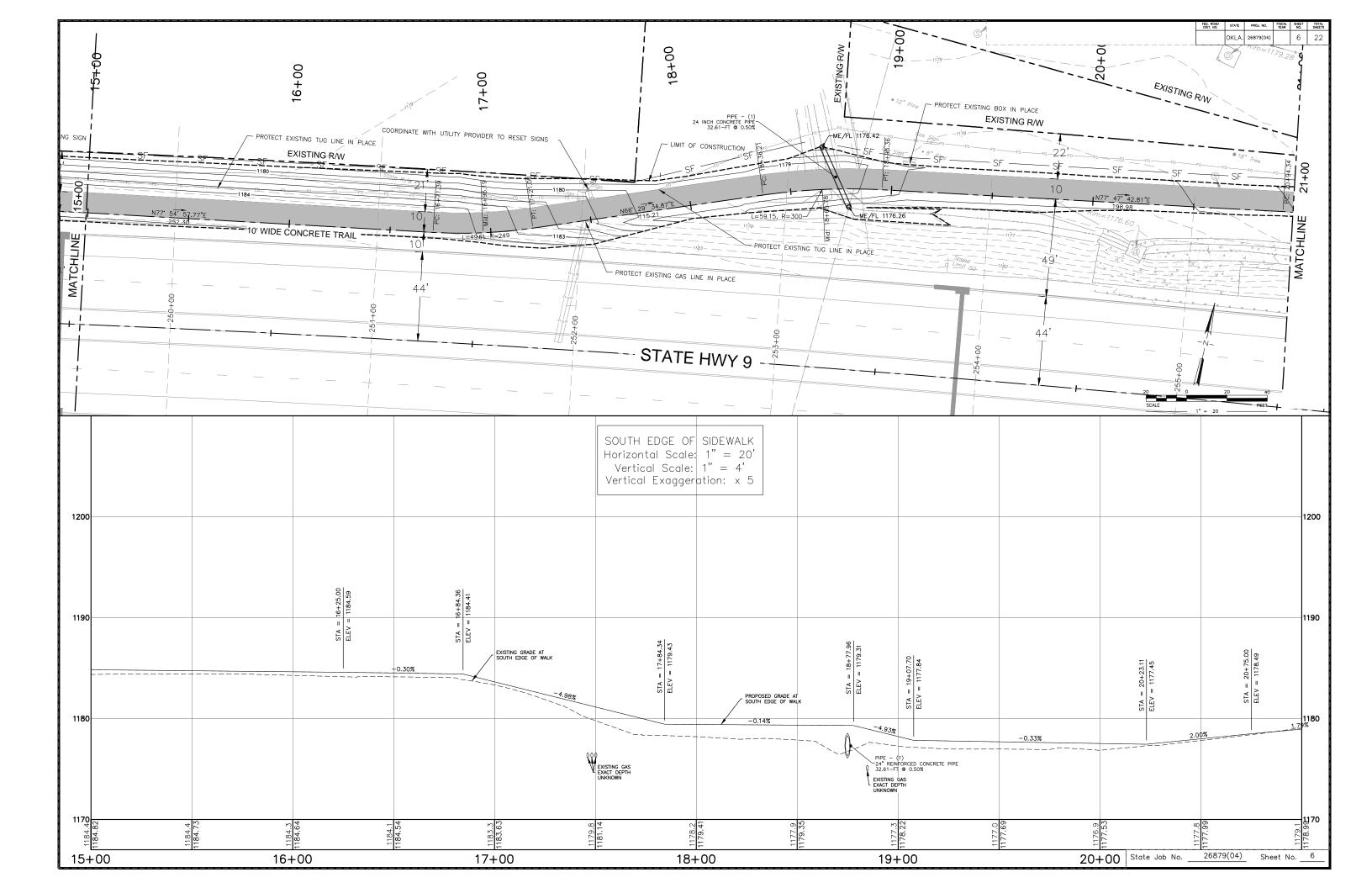
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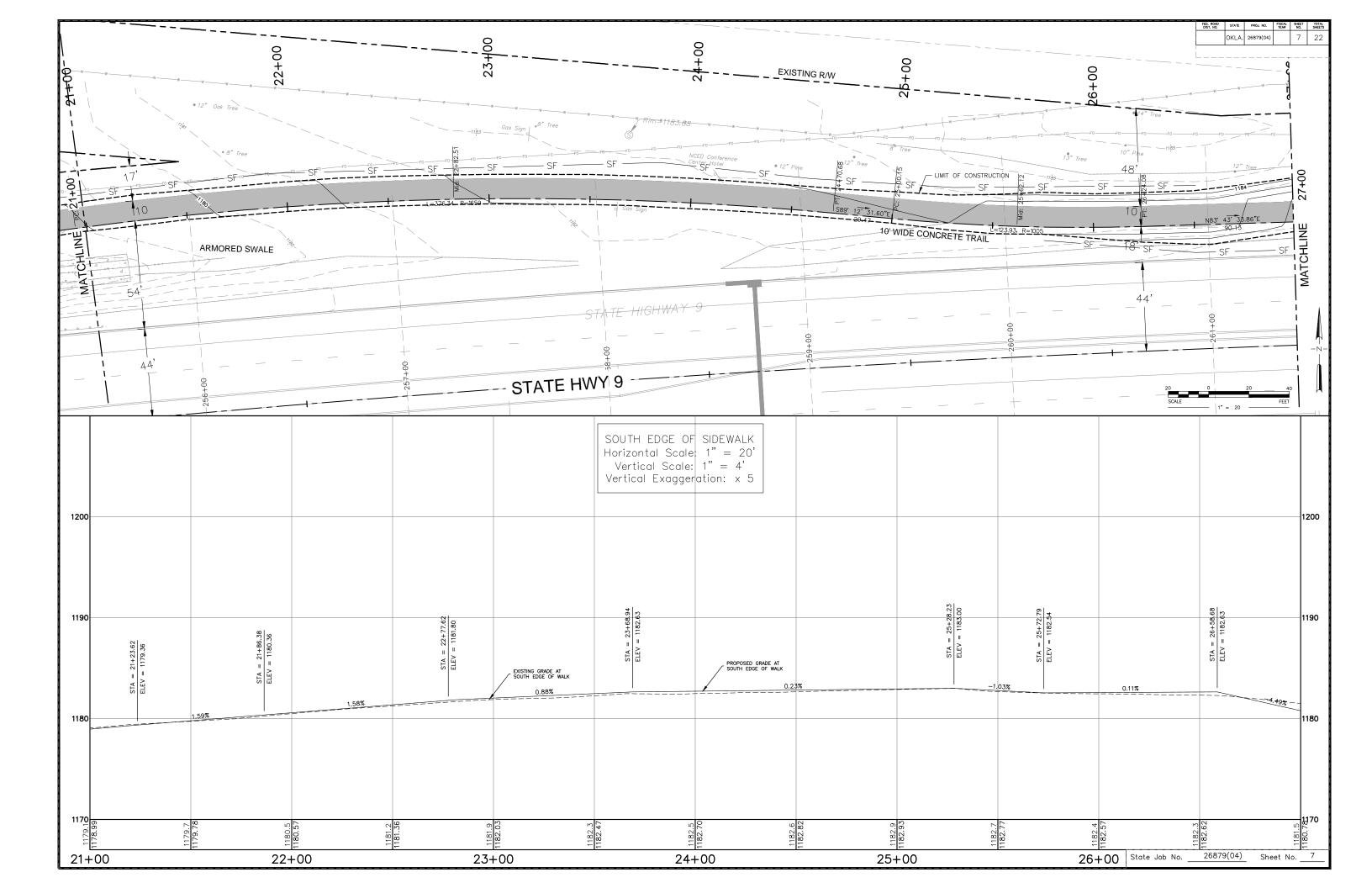
STORM WATER MANAGEMENT PLAN

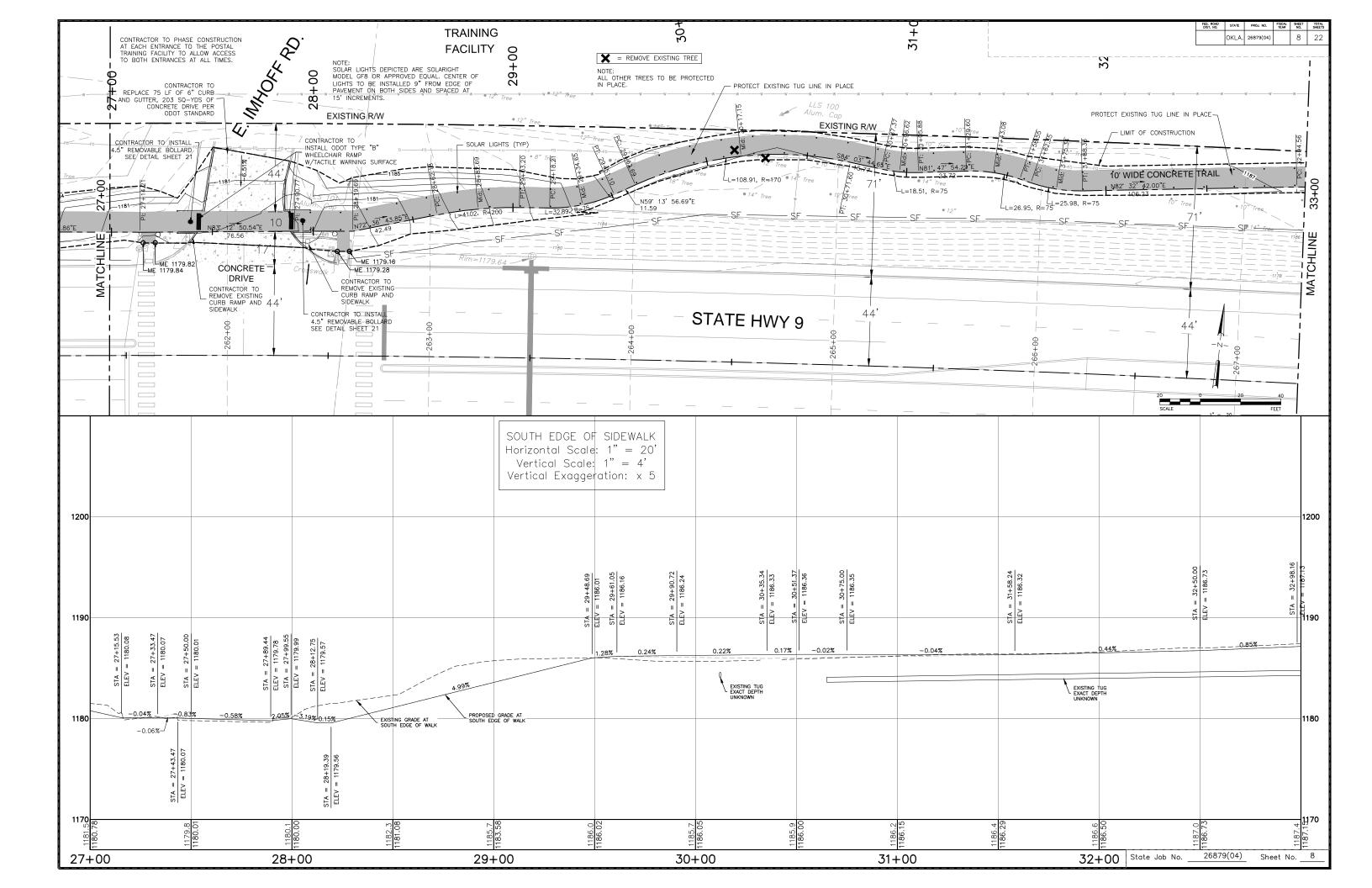
STATE JOB NO. 26879(04)

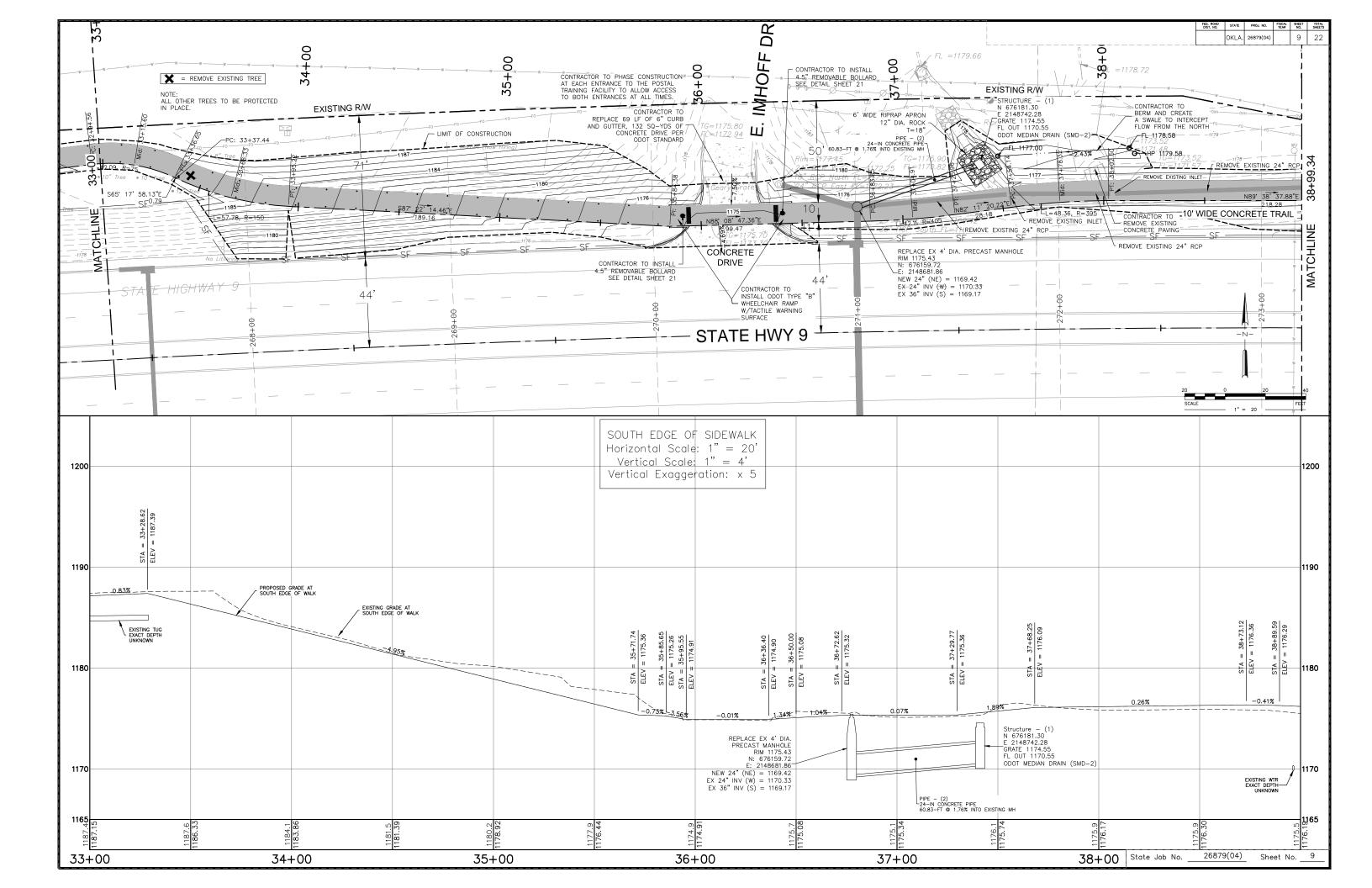
Sheet No. 4

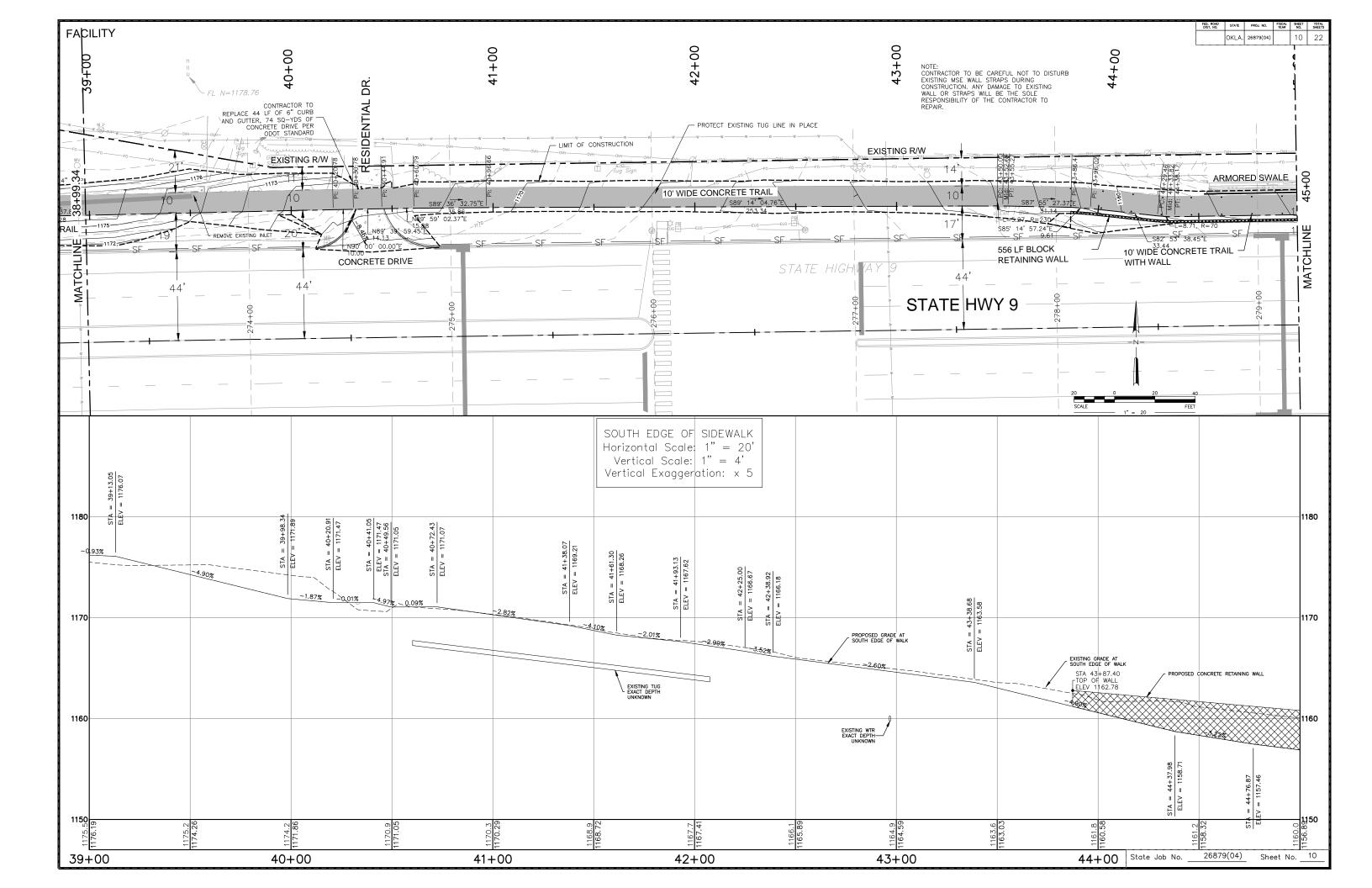


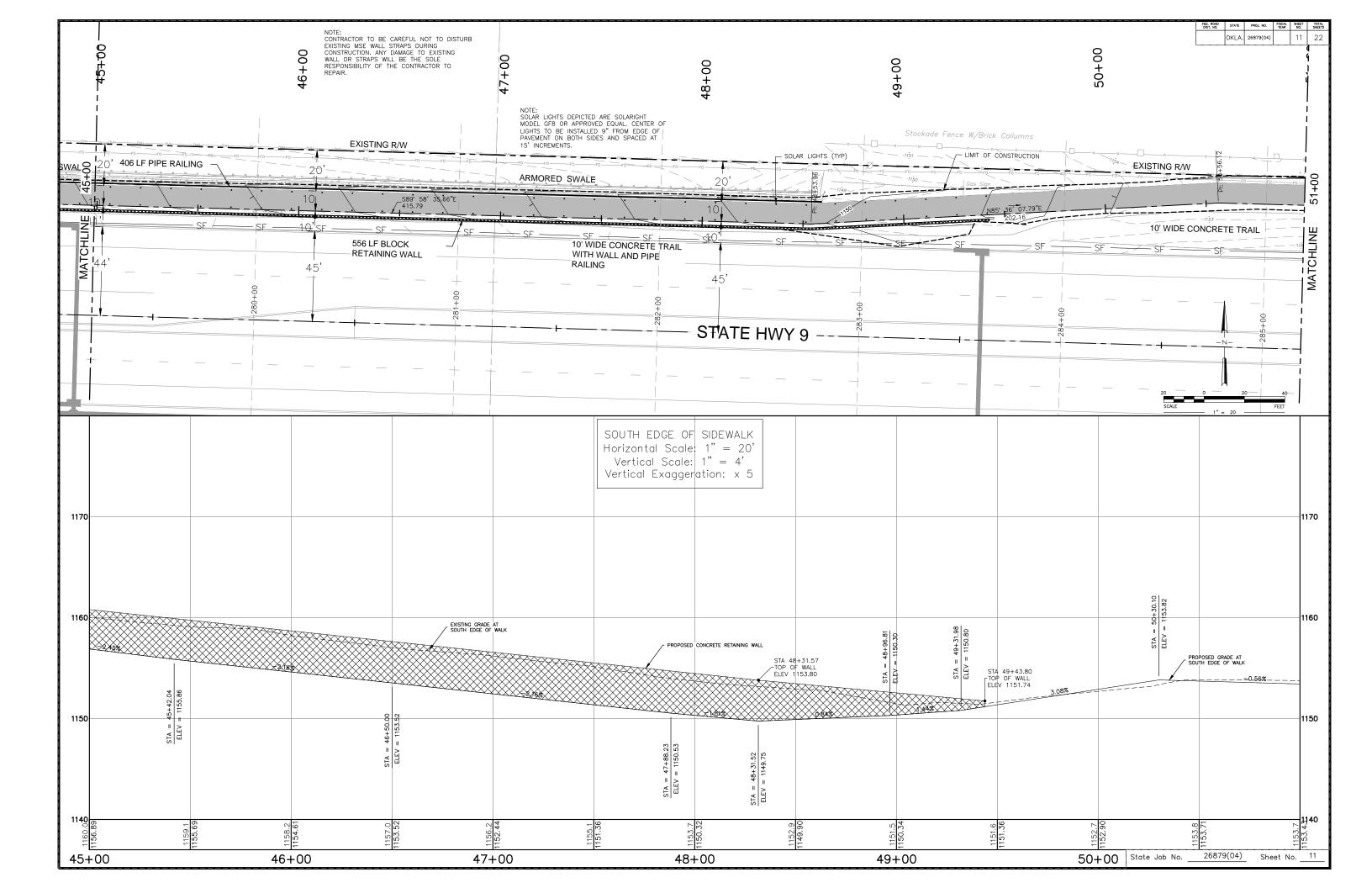


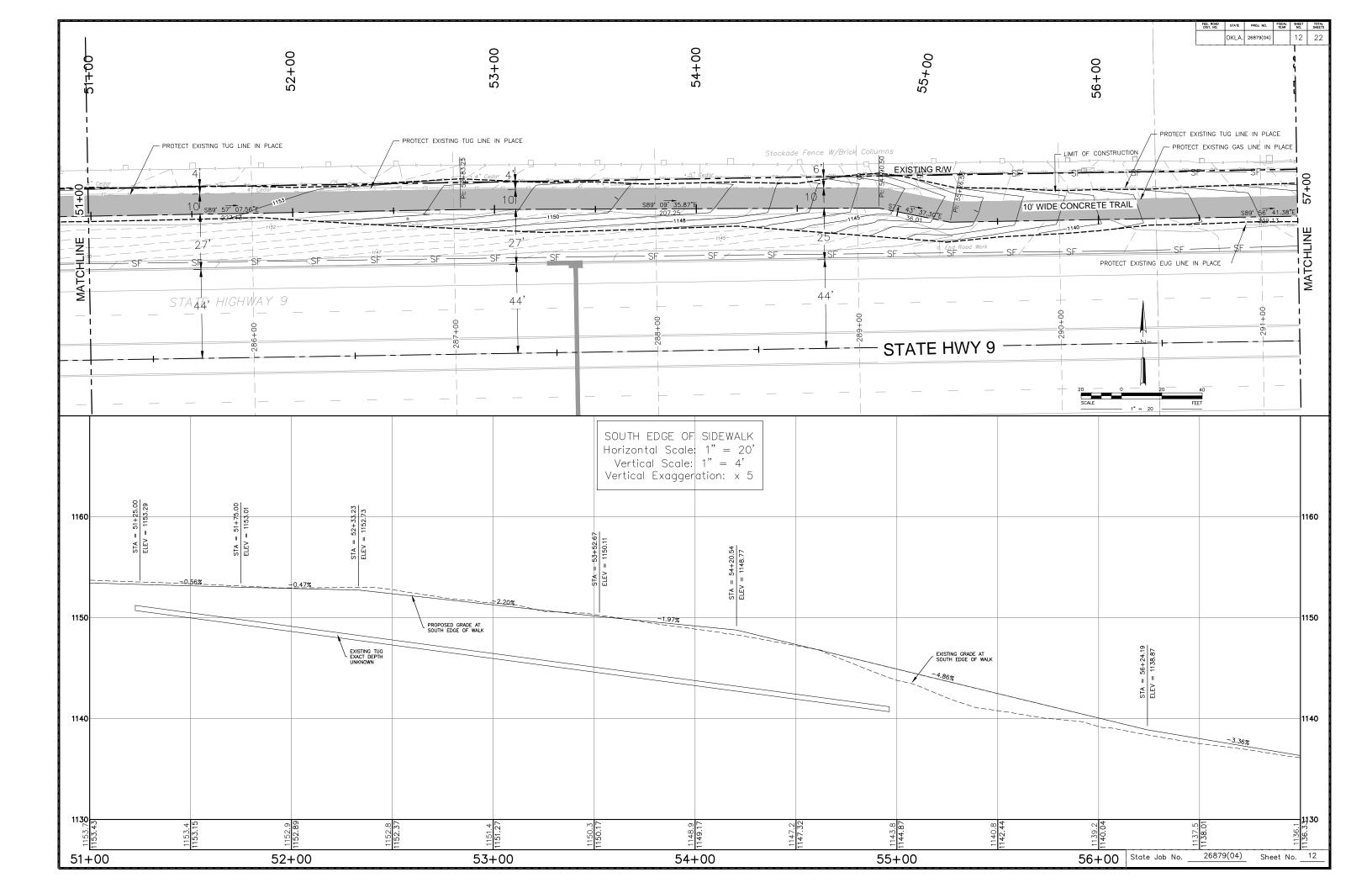


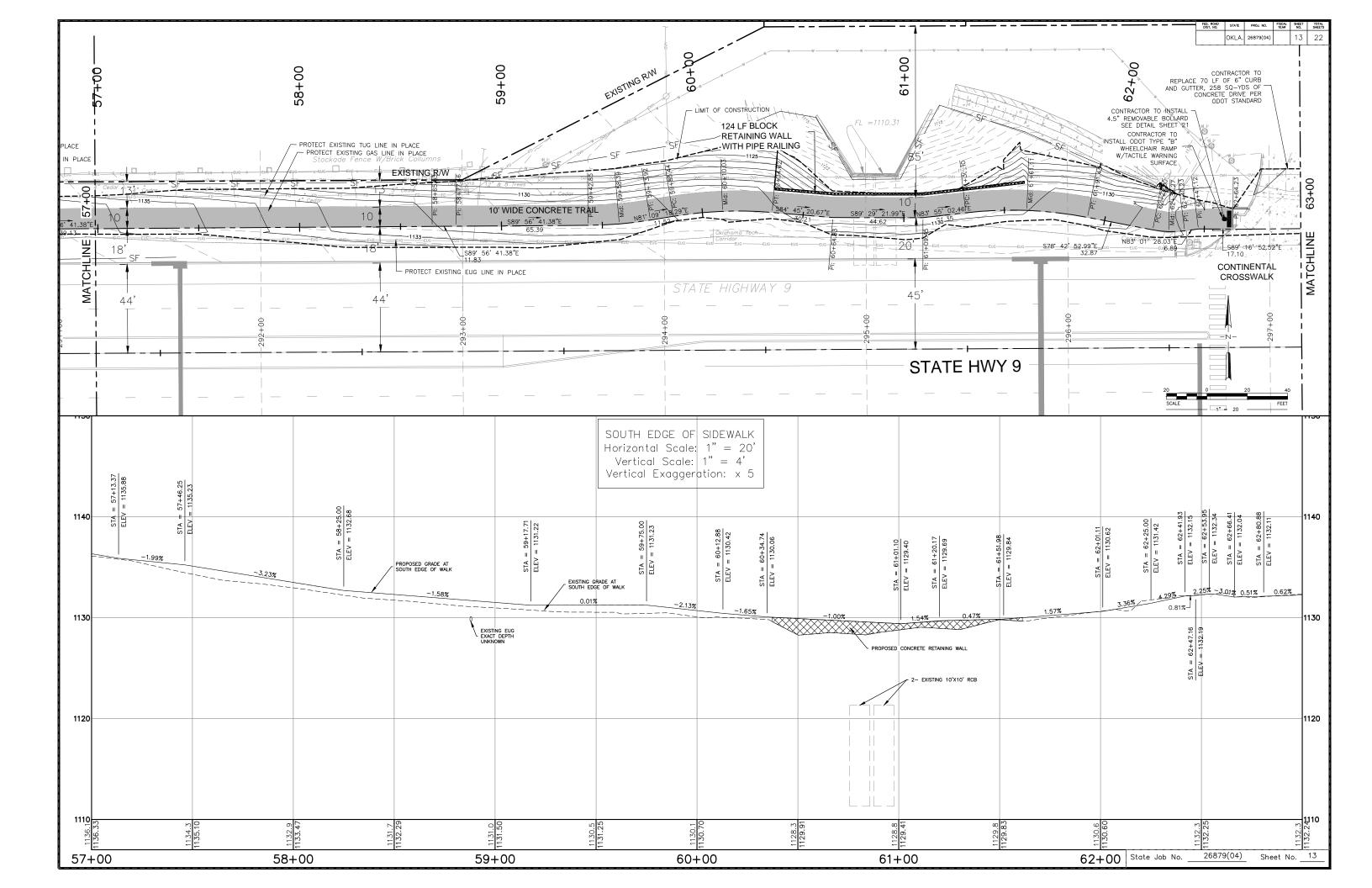


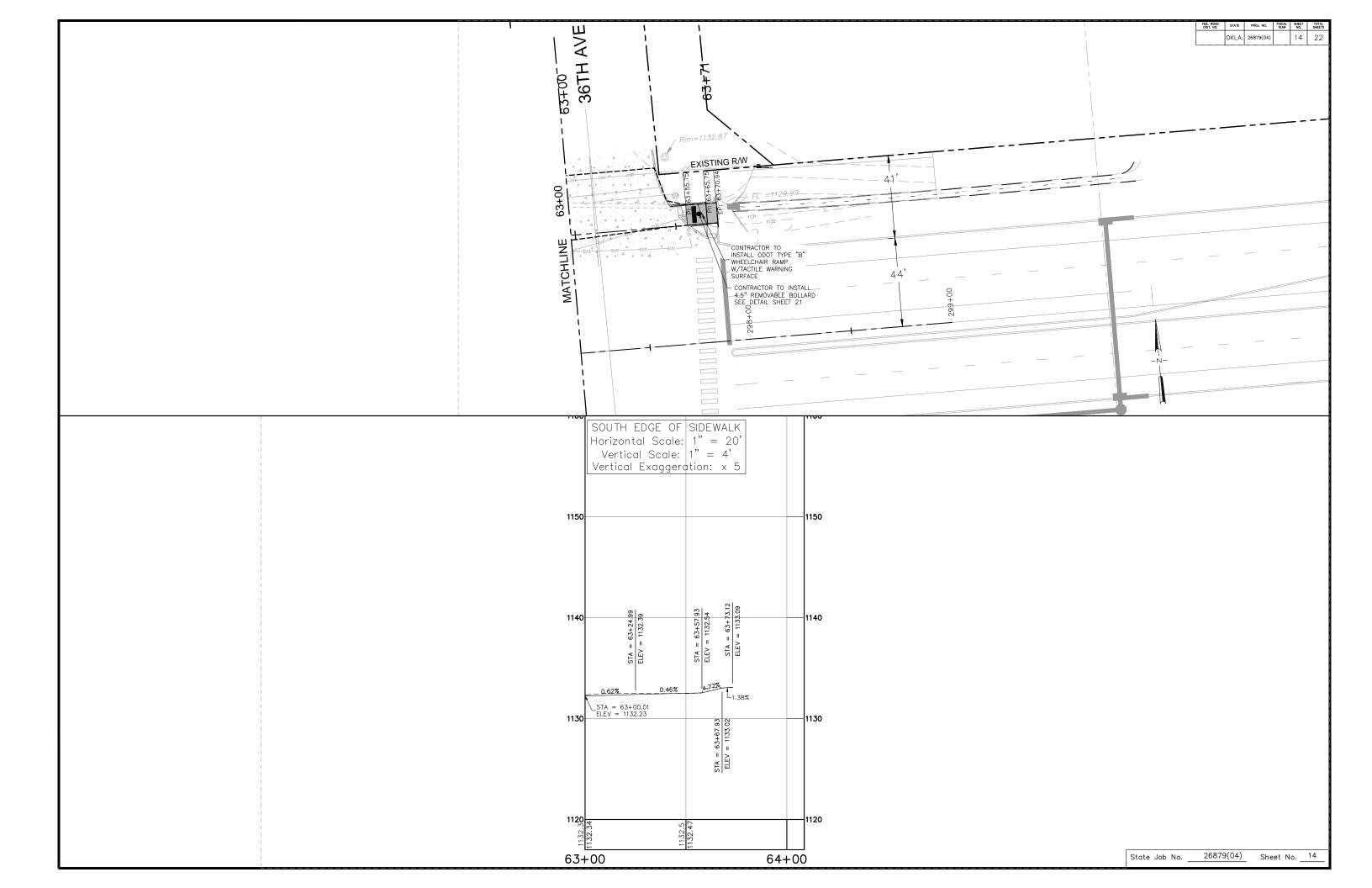


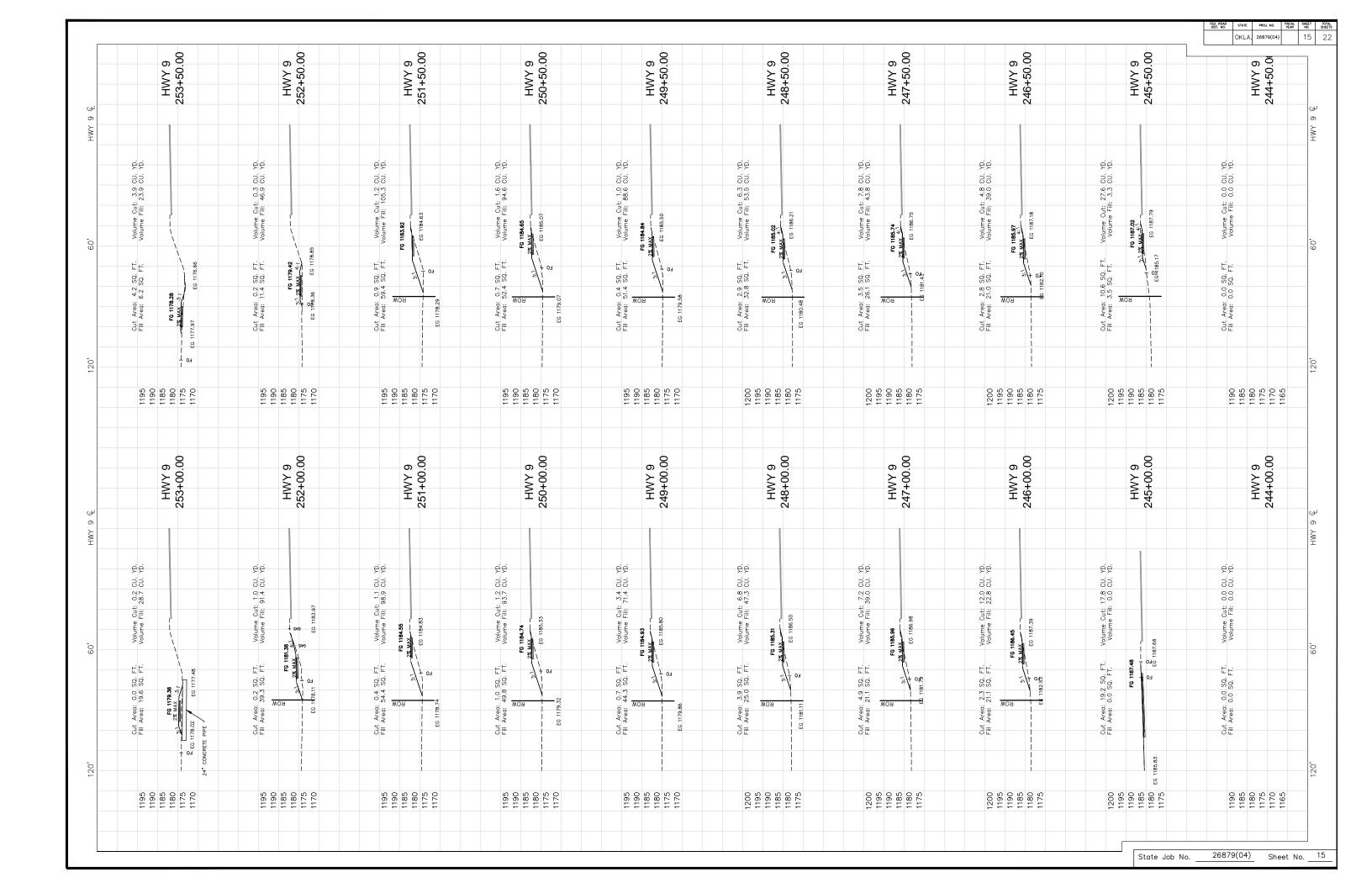


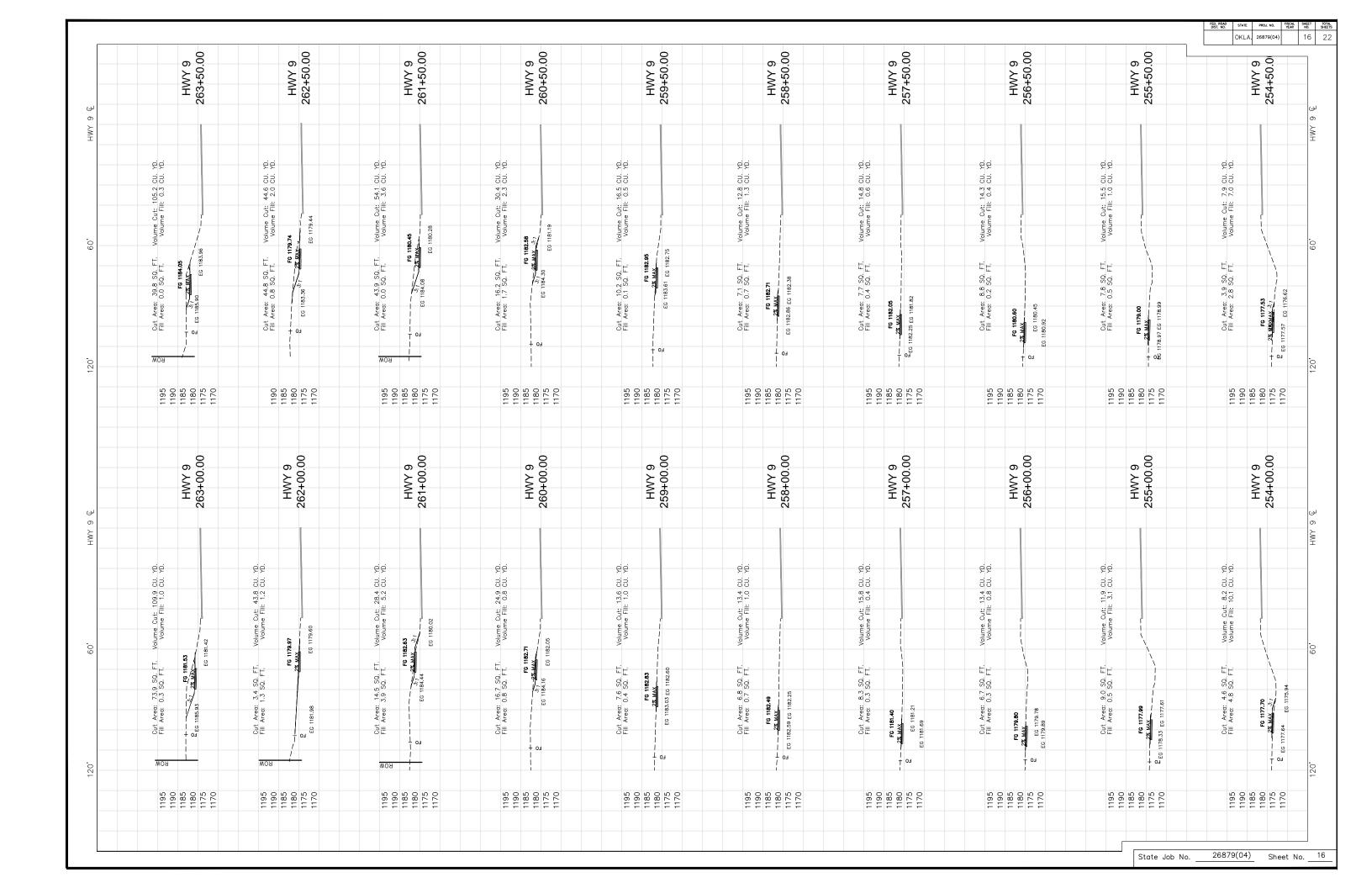


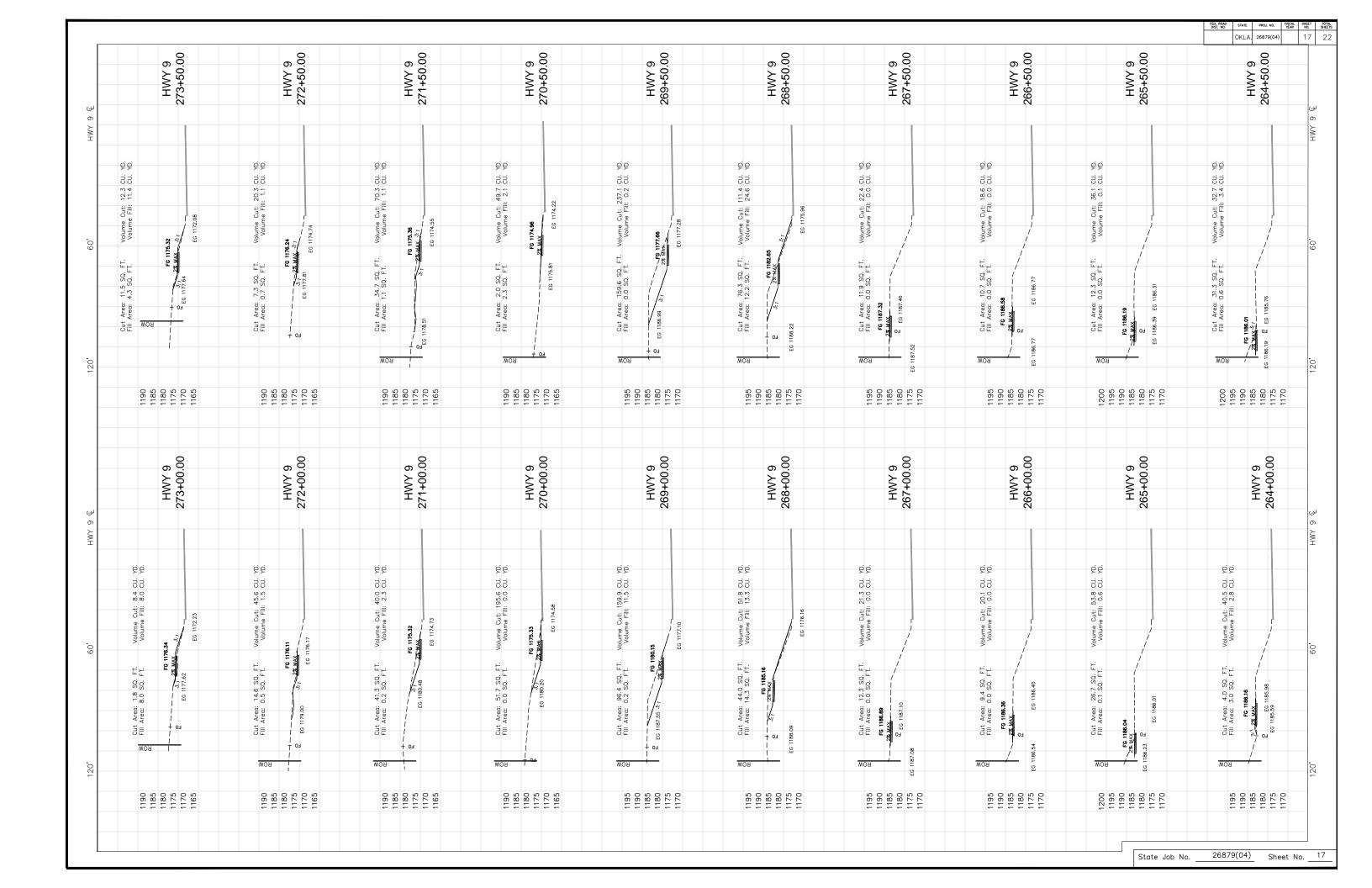


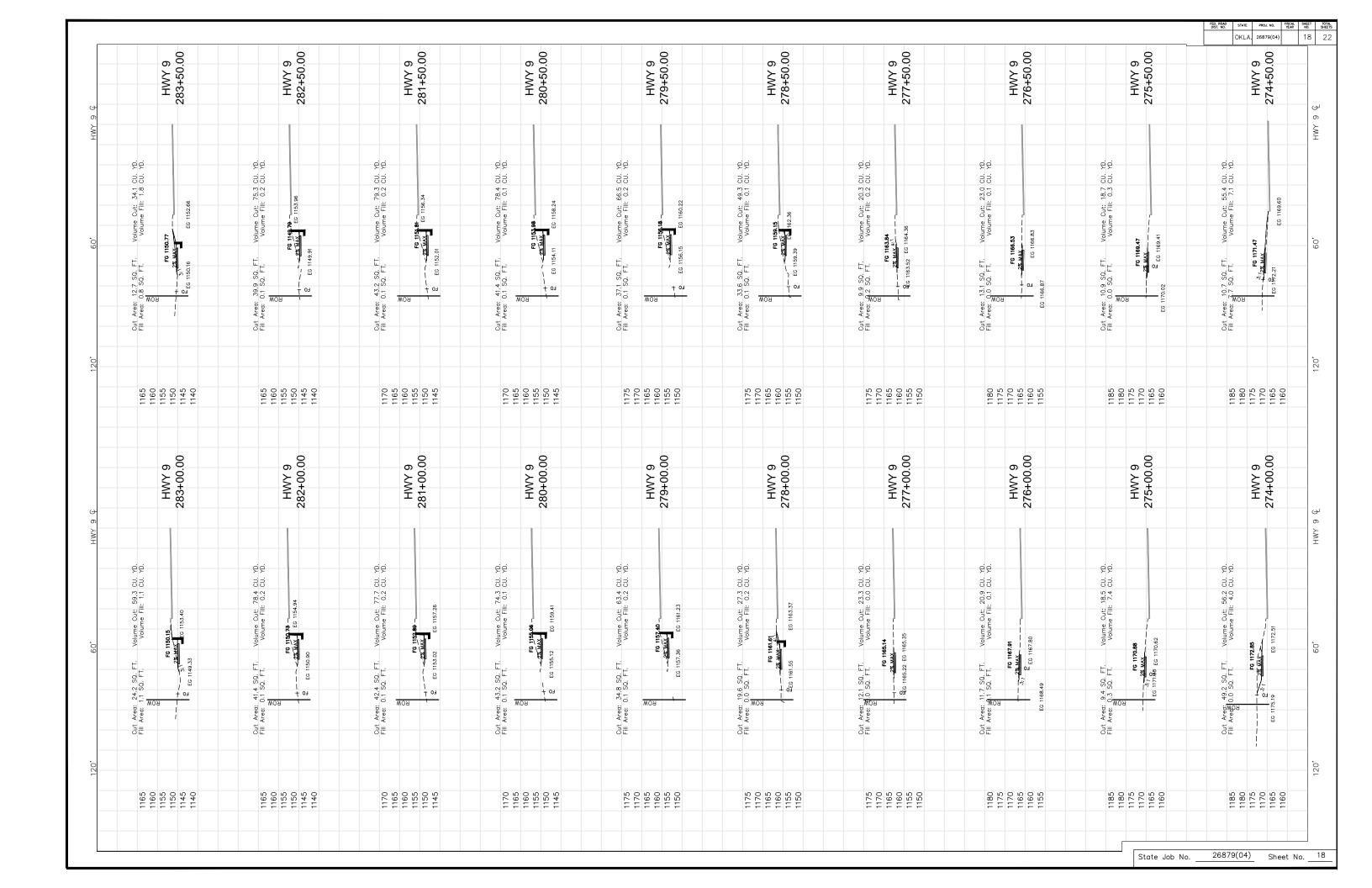


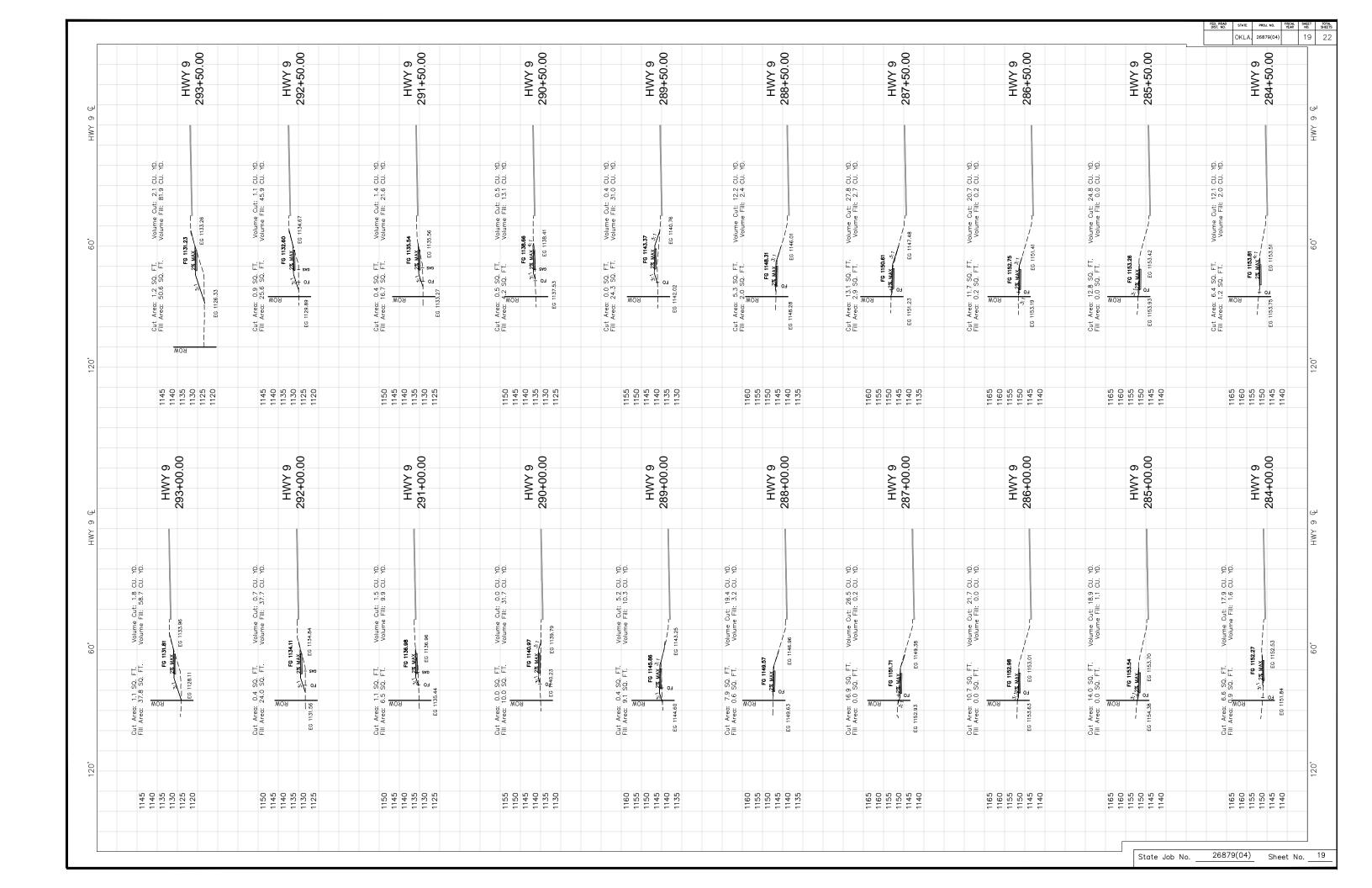


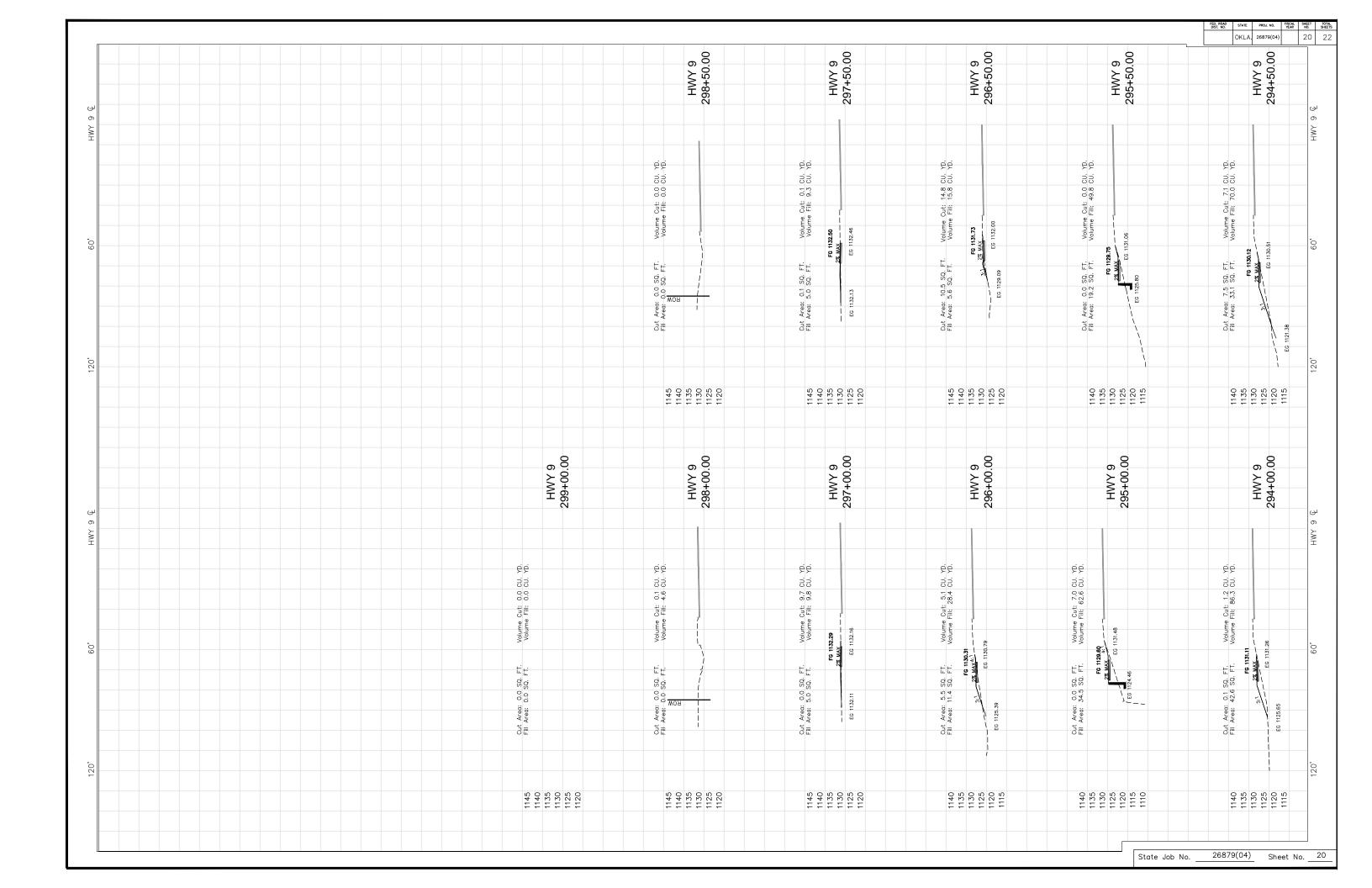




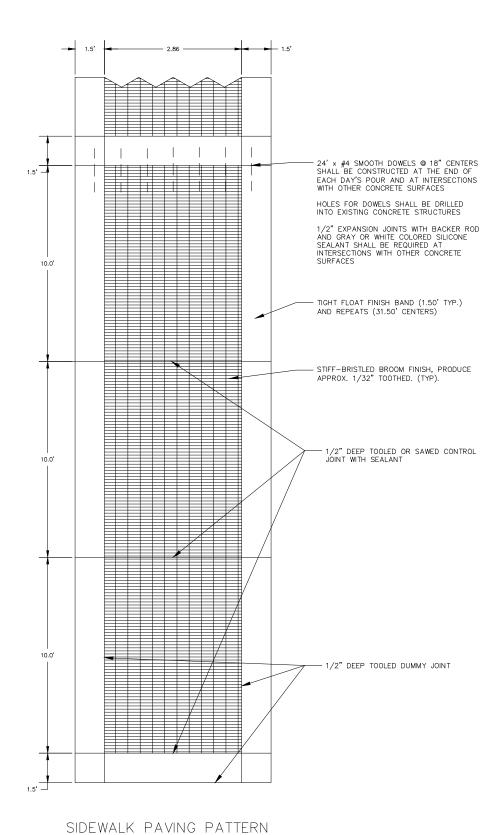




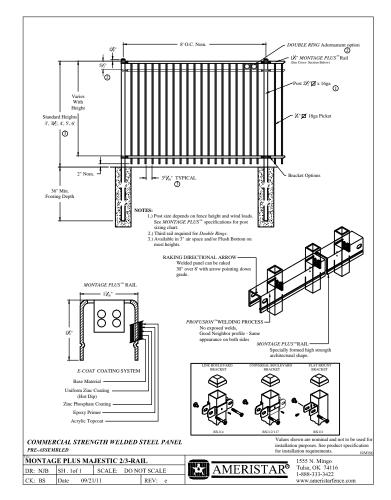




OKLA. 26879(04)



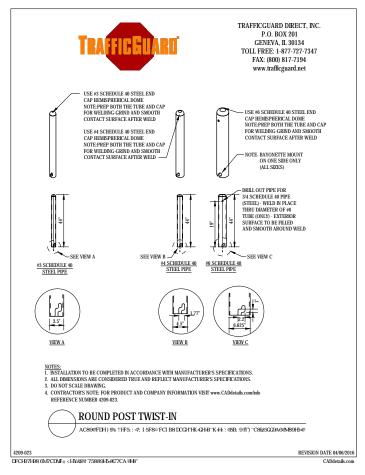
10.0' (TYP) -3/8"R TOOLED EDGE - 1.5' -\_\_\_ 15' -1% OR LESS CROSS SLOPE 1/2" DEEP TOOLED — DUMMY JOINT 3/8"R TOOLED EDGE COMPACT SUBGRADE IN FILL TO 95% PROCTOR DENSITY 4" COMPACTED CRUSHED ROCK BASE 5" P.C. CONC. SIDEWALK W/ FIBERMESH 95% PROCTOR DENSITY (6X6-10/10 WWF 2" MIN. COVER) TYPICAL CONCRETE TRAIL SECTION NTS

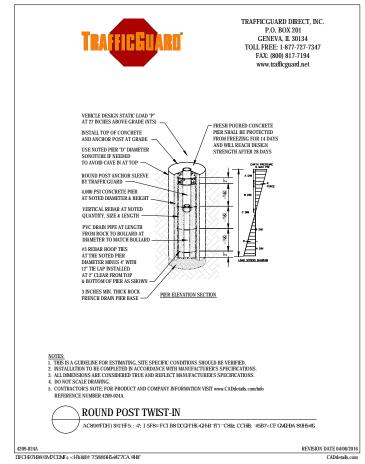


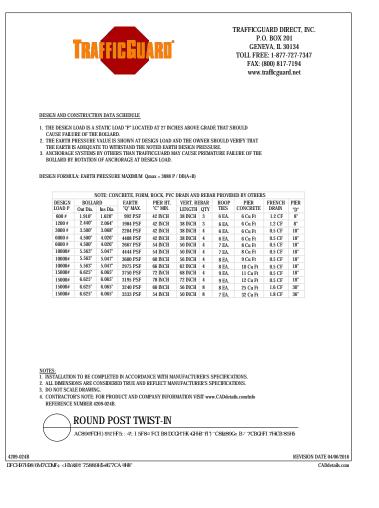
- 1) MAXIMUM HEIGHT OF 42 INCHES
  2) MAXIMUM CLEARANCE BETWEEN RAILS IS 4 INCHES
  3) HANDRAIL MUST CONTAIN TOP RAIL
- 4)PRE-MANUFACTURED HANDRAIL SEE ATTACHED SKETCH

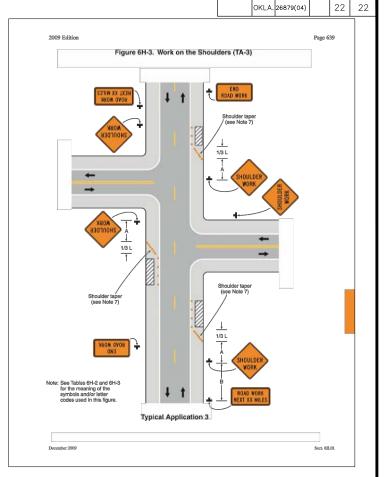
  I) COMMERCIAL STRENGTH WELDED STEEL PANEL
- II) SHALL BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS
  III) PRE-MANUFACTURED HANDRAIL
- 1. AMERISTAR MONTAGE PLUS MAJESTIC 2/3 2. OTHER APPROVED EQUAL

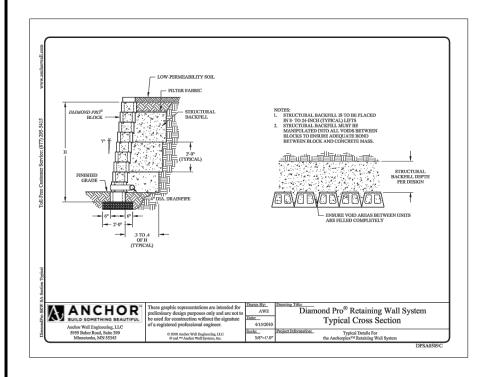
Design					
Drawn	JRA	CIVIL DETAILS			
Checked	JRA	CIVIL DETAILS			
Approved	WRS				
Squad		STATE JOB NO. 26879(04)	Sheet No. <u>21</u>		



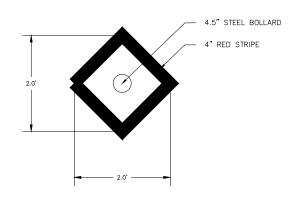












4" WIDE RED STRIPE

NTS

Design					
Drawn	JRA		CIVIL DETAILS		
Checked	JRA				
Approved	WRS				
Squad			STATE JOB NO. 26879(04)	Sheet No. 22	