

	CLR PROJECT# 16-7-ST-140		
	OTTER CREEK AT STAGECOACH RD. DRAINAGE		
	January 22, 2018		
ITEM #	ITEM DESCRIPTION	UNIT	
2.01	SITE PREPARATION	LS	1
3.01	UNCLASSIFIED EXCAVATION	CY	97
3.40	TOPSOIL	CY	50
6.01	ACHM SURFACE COURSE	TON	4
7.06	CONCRETE DRIVEWAY (6" THICK), STANDARD FINISH	SF	1,325
8.03	CONCRETE CURB AND GUTTER (CLASS 3)	LF	51
9.04	CONCRETE SIDEWALK (4" THICK)	SF	2,890
10.01	JUNCTION BOX	EA	2
10.05	CURB INLET - 5'x4' BOX	EA	4
10.06	CURB INLET - 6'x4' BOX	EA	3
10.07	CURB INLET - 6'x6' BOX	EA	1
10.08	WING 4' EXTENSION	EA	8
10.12	WING 8' EXTENSION	EA	4
10.80	REBUILD INLET TOP	EA	1
13.18C	STORM DRAIN PIPE, 18" RCP	LF	300
13.30C	STORM DRAIN PIPE, 30" RCP	LF	336
13.30A	STORM DRAIN PIPE, ARCH 36"X23" RCP	LF	85
13.61	TIE INTO EXISTING JUNCTION BOX	EA	1
13.63	CONCRETE PLUG ON EXISTING STORM DRAIN	EA	1
14.01	SOLID SODDING, BERMUDA	SY	425
16.01	MAINTENANCE OF TRAFFIC	LS	1
17.01	PAVEMENT REPAIRS	SY	34
18.45	RIPRAP (NON-GROUTED)	CY	14
18.50	ACCESS RAMP	SF	199
19.01	FINAL CLEANUP	LS	1
24.02	CHECK DAM (CD)	CY	40
24.06	SEDIMENT BARRIER, SILT FENCE (SD1)	EA	10
24.09	SEDIMENT BARRIER, BLOCK (SD4)	EA	10
26.10	TRENCH & EXCAVATION SAFETY	LS	1
309.05	PORTLAND CEMENT CONCRETE BASE (5" U.T.)	SY	22
309.10	PORTLAND CEMENT CONCRETE BASE (10" U.T.)	SY	73
606.30C	FLARED END SECTION 30" RCP	EA	1
632.06	CONCRETE ISLAND BEHIND WALK (6" THICK)	SF	111
634.01A	CONCRETE COMBINATION CURB AND GUTTER (TYPE A)(1'-6")	LF	200
718.10		LF	41
721.02	RAISED PAVEMENT MARKERS (TYPE II)	EACH	6

NOTES:

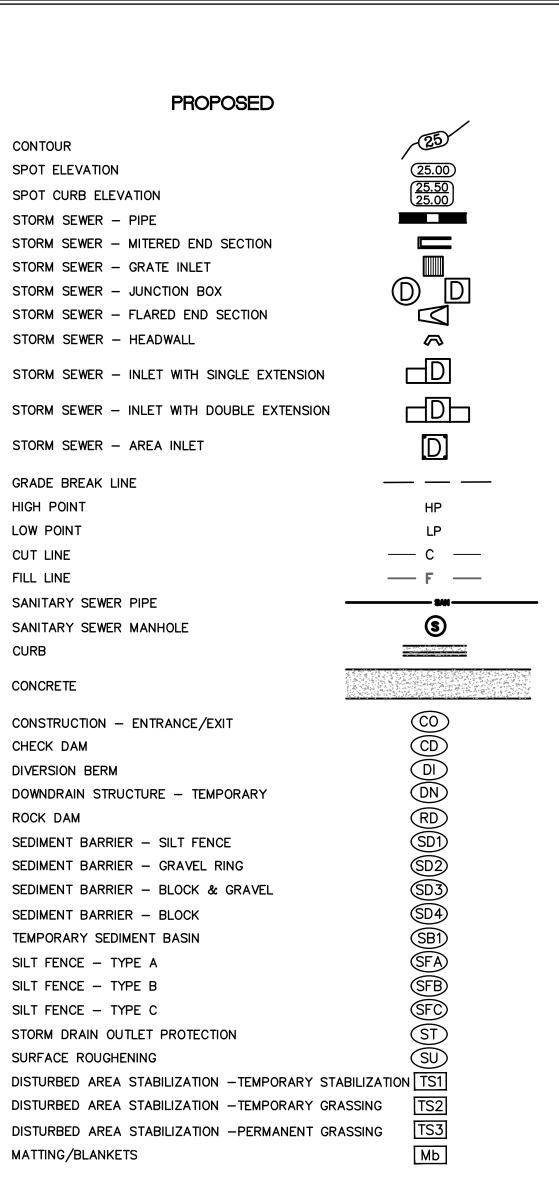
- 1. TYPE C DROP INLETS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR CURB INLET OF THE SIZE SPECIFIED.
- 2. TYPE ST JUNCTION BOXES SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID FOR JUNCTION BOX.

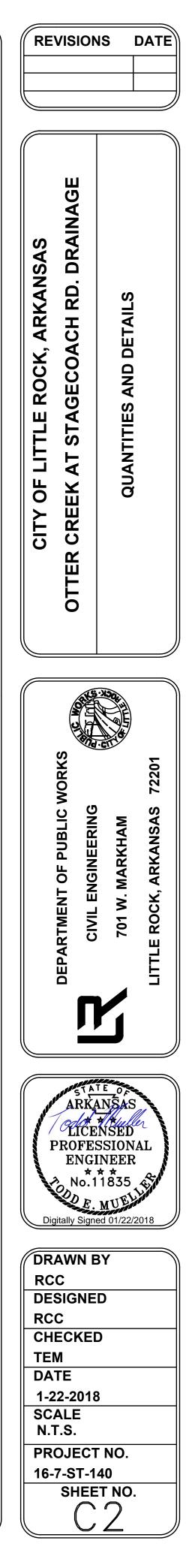
EXISTING

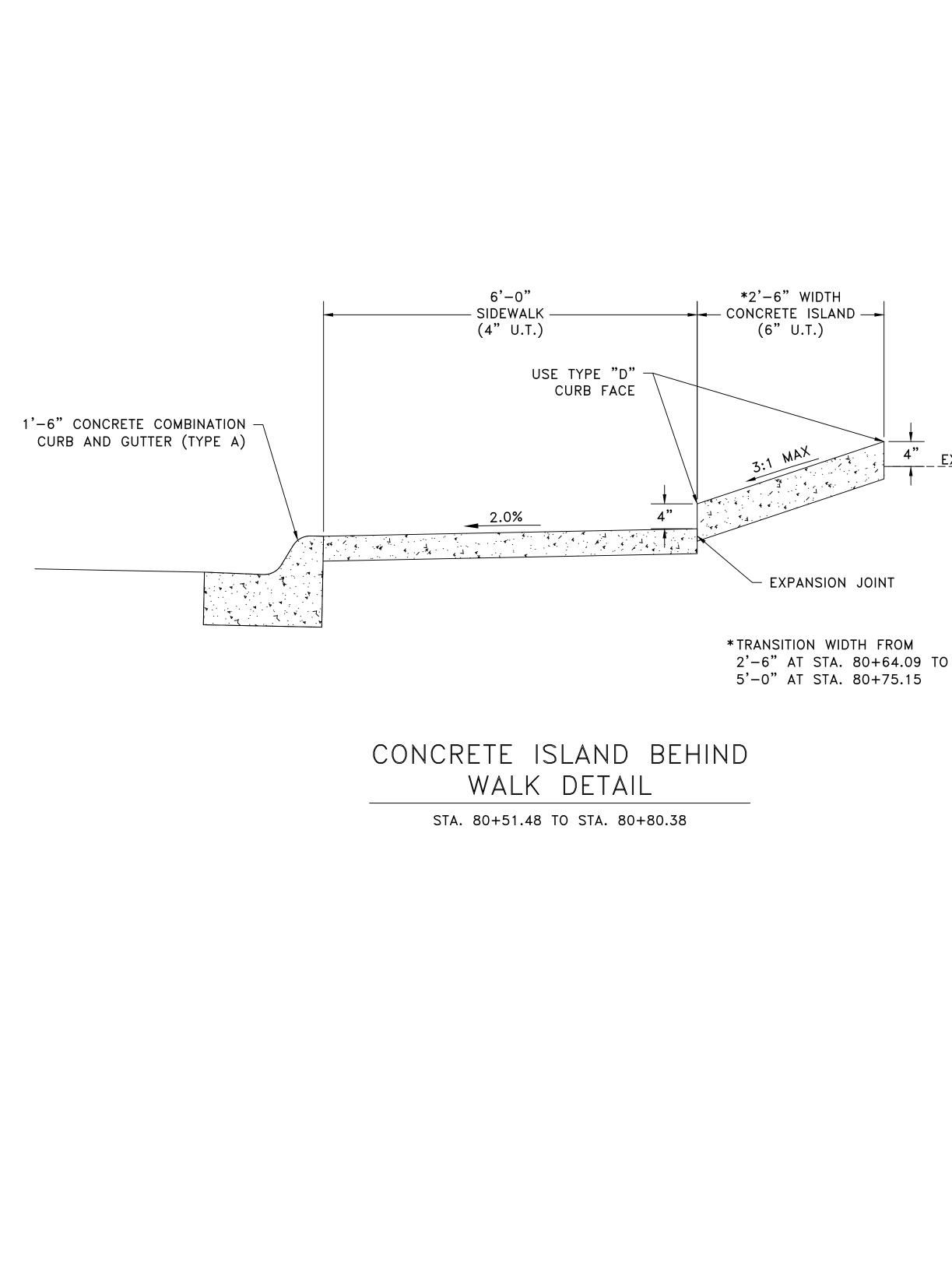
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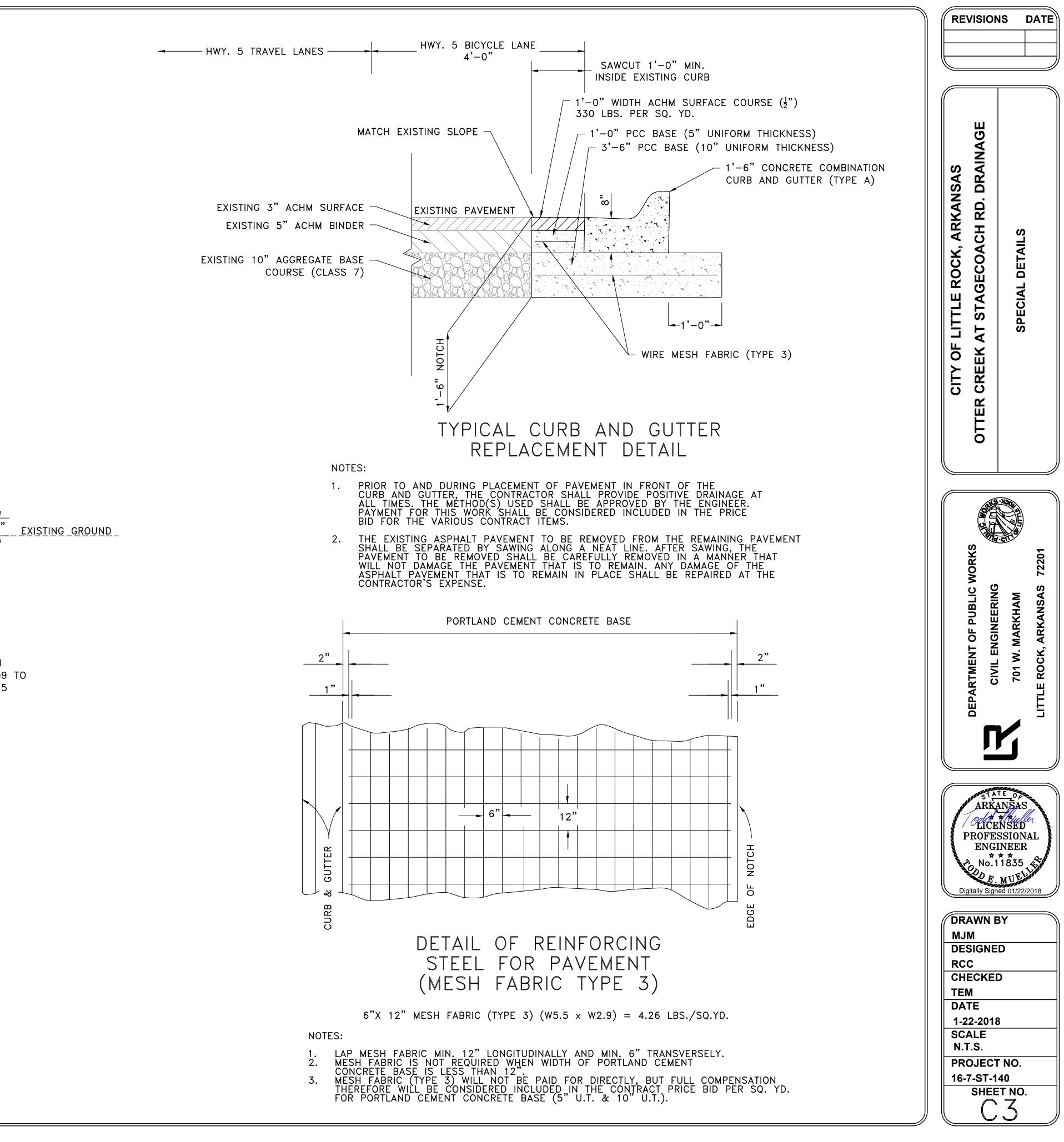
IRON ROD

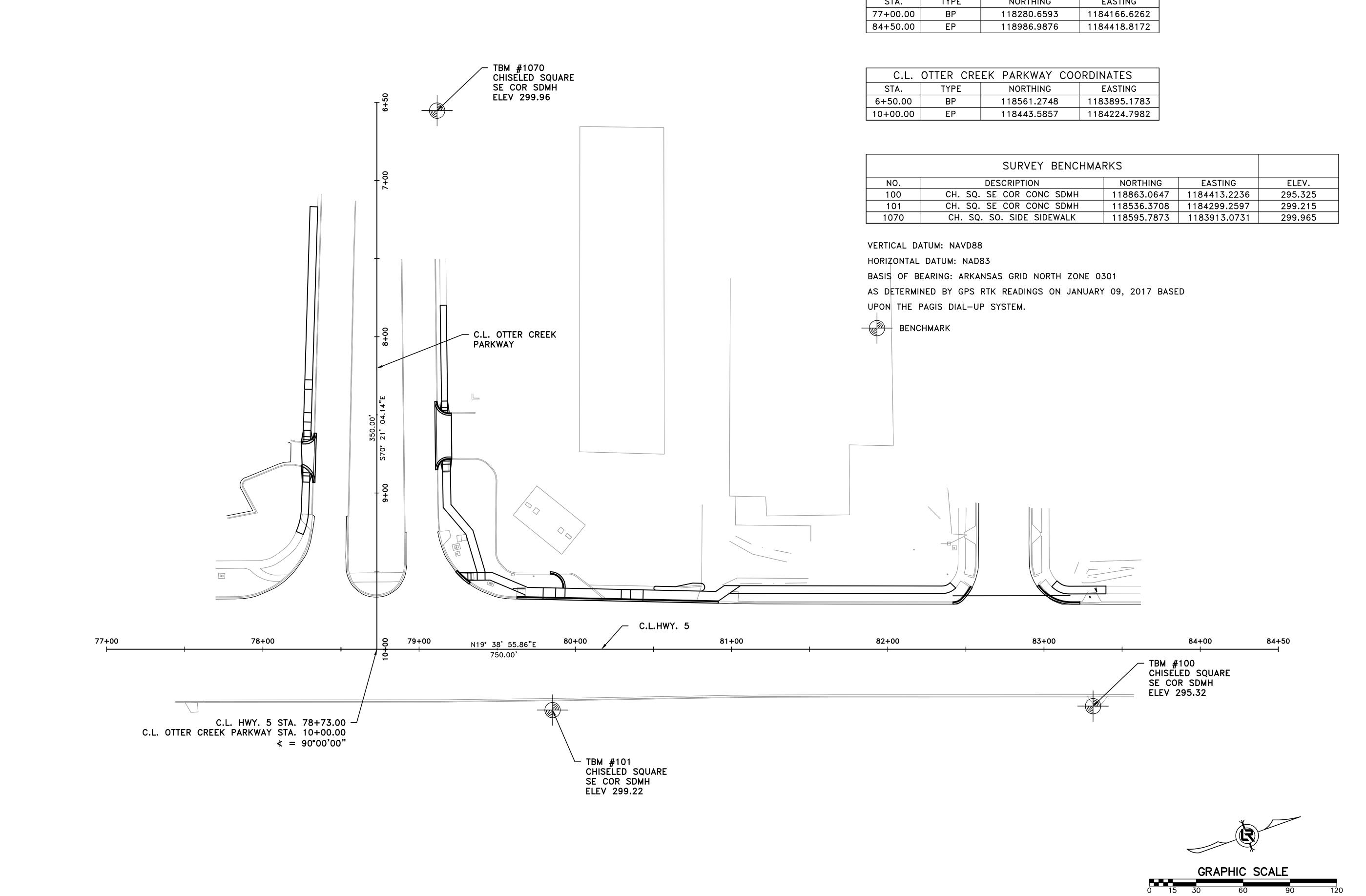
IKON KOD	\odot IX	
PK NAIL	○ PK	S
R.R. SPIKE	○ RR(Sp)	S
CONC. MONUMENT		S
WATER VALVE	\ge WV	S
WATER METER	III WM	S
FIRE HYDRANT	Ю́ГН	S
GAS METER	GM	S
GAS VALVE	\otimes GV	S
CLEAN-OUT	0 C0	S
GUARD POST (BOLLARD)	• GP	
SIGN POST		S
BENCHMARK	- \$ -	S
STORM SEWER MANHOLE	D	2
SANITARY SEWER MANHOLE	D S T E	G
TELEPHONE MANHOLE	T	F
ELECTRIC MANHOLE	E	L
TELEPHONE BOX	T	C
ELECTRIC BOX	E	F
CABLE BOX	C	S
UTILITY POLE	J.	S
GUY WIRE	÷	C
LIGHT POLE	ά.	~
POST OR POLE (TYPE AS NOTED		C
MAILBOX		C
DECIDUOUS TREE		С
		D
EVERGREEN/CONIFEROUS TREE		D
		F
BUSH	$\langle \cdot \rangle$	S
	~~~~	S
PROPERTY LINE -		S
SETBACK LINE		S
EASEMENT LINE -	- — — — — —	Т
CURB		S
FENCE -	X X	S
OVERHEAD UTILITY -	OHPOHP	S
UNDERGROUND TELEPHONE -	UGT UGT	S
UNDERGROUND ELECTRIC -	UGE UGE	S
WATER LINE -	8''W 8''W	D
SEWER LINE -	SAN	D
GAS LINE -	GAS GAS	C
STORM SEWER/CULVERT	24" CMP/RCP/DIP	Ν
CONTOUR LINE	650	









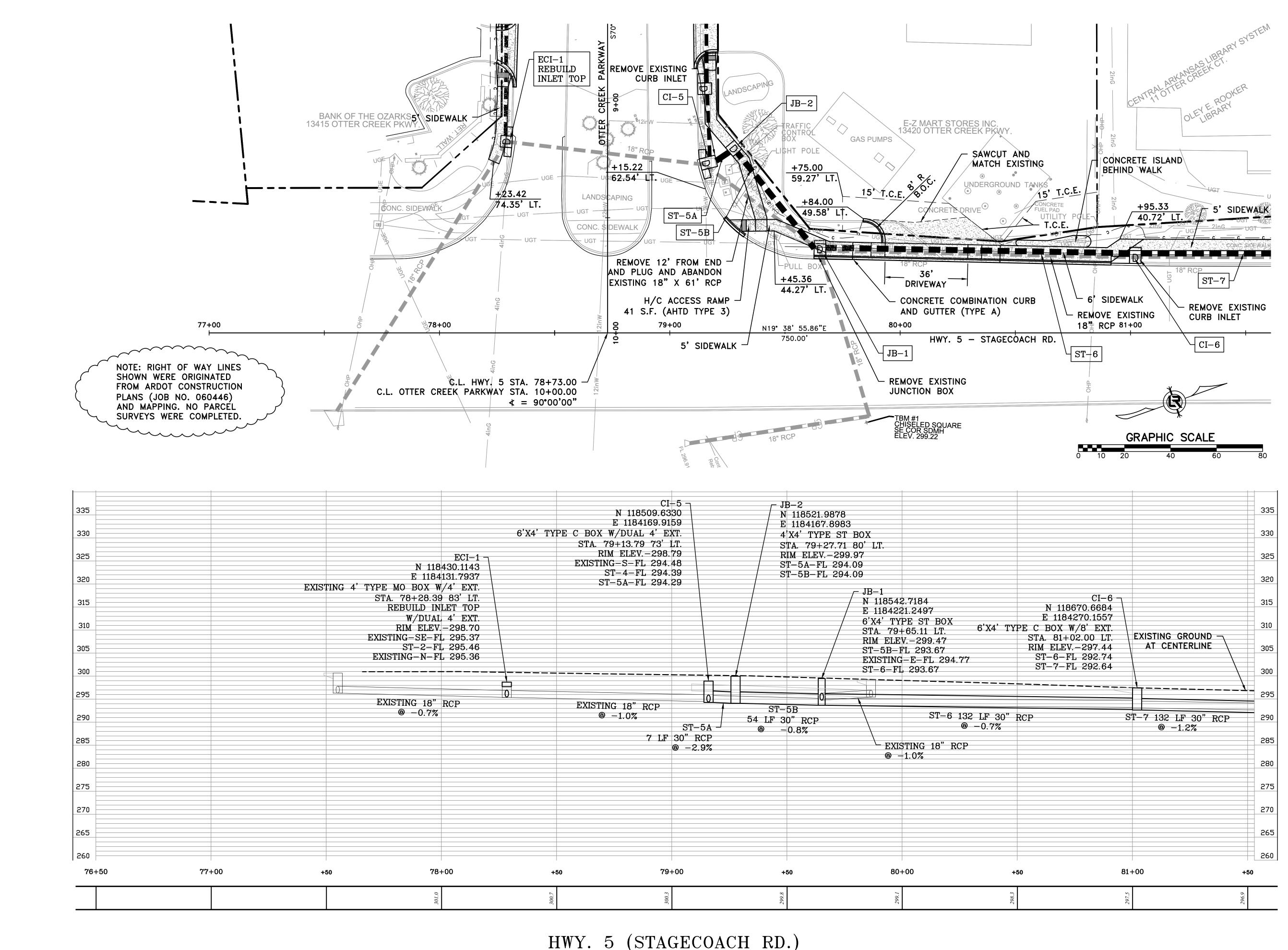


	C.L. HV	VY. 5 COORDINATE	S
STA.	TYPE	NORTHING	EASTING
77+00.00	BP	118280.6593	1184166.6262
84+50.00	EP	118986.9876	1184418.8172

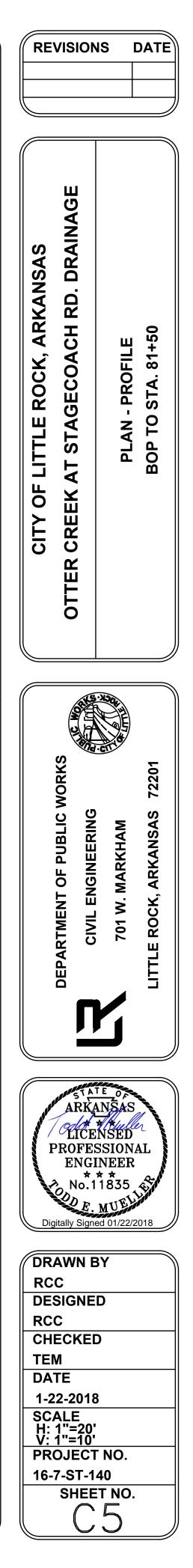
C.L.	OTTER CRE	EK PARKWAY COO	RDINATES
STA.	TYPE	NORTHING	EASTING
6+50.00	BP	118561.2748	1183895.1783
10+00.00	EP	118443.5857	1184224.7982

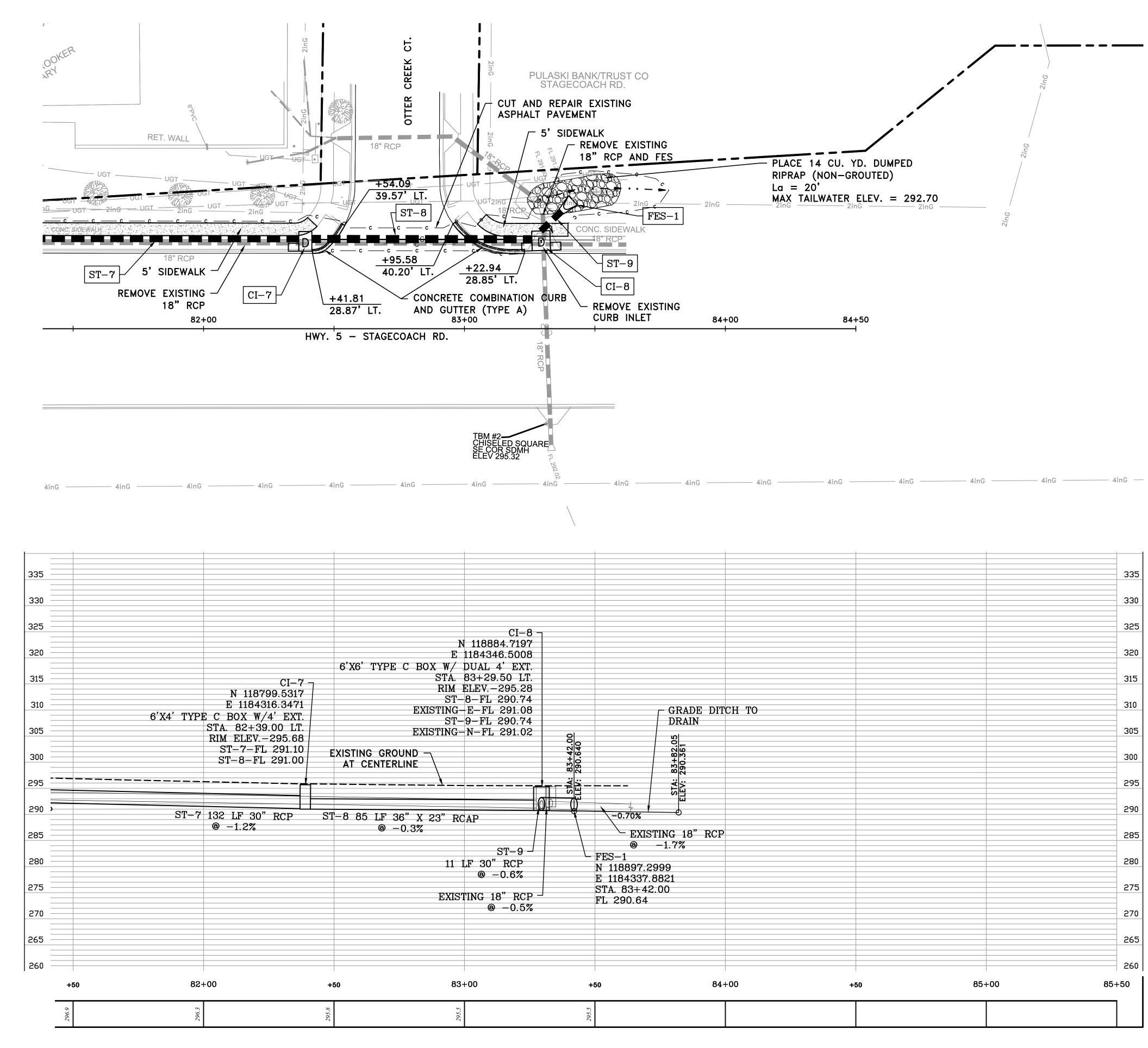
NO.	DESCRIPTION	NORTHING	EASTING	ELEV.
100	CH. SQ. SE COR CONC SDMH	118863.0647	1184413.2236	295.325
101	CH. SQ. SE COR CONC SDMH	118536.3708	1184299.2597	299.215
1070	CH. SQ. SO. SIDE SIDEWALK	118595.7873	1183913.0731	299.965



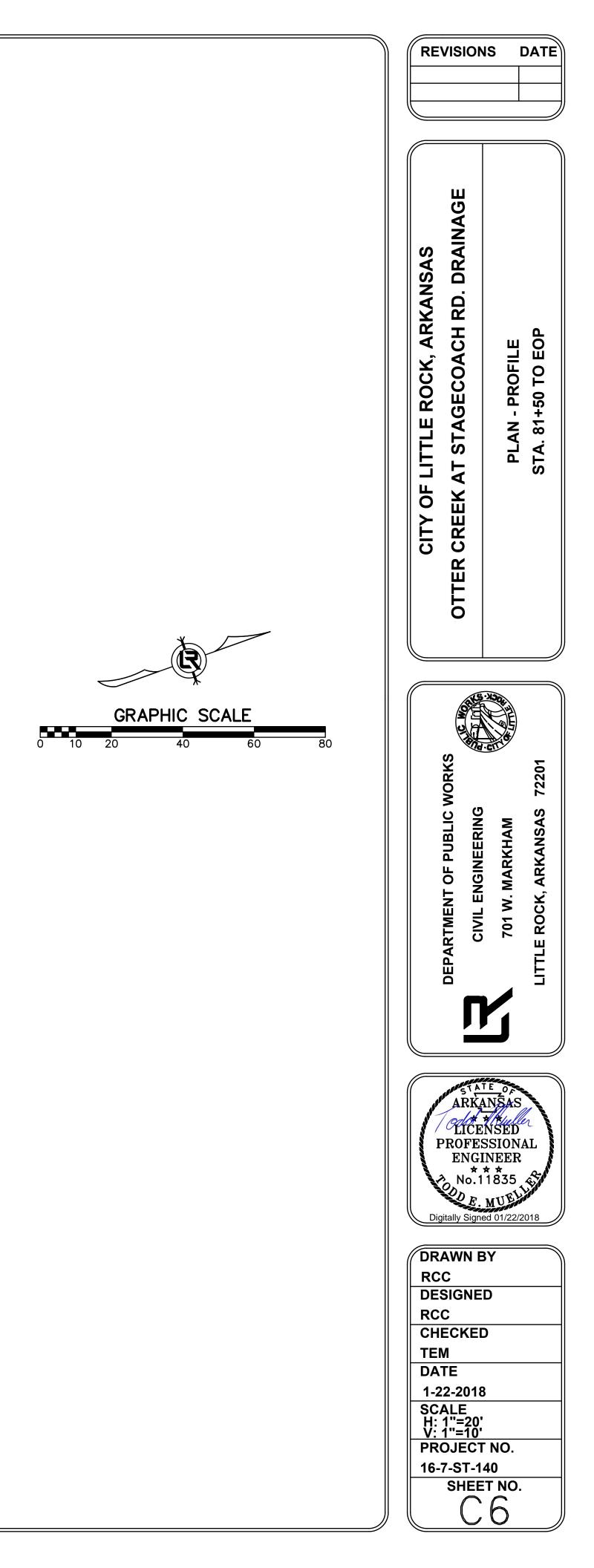


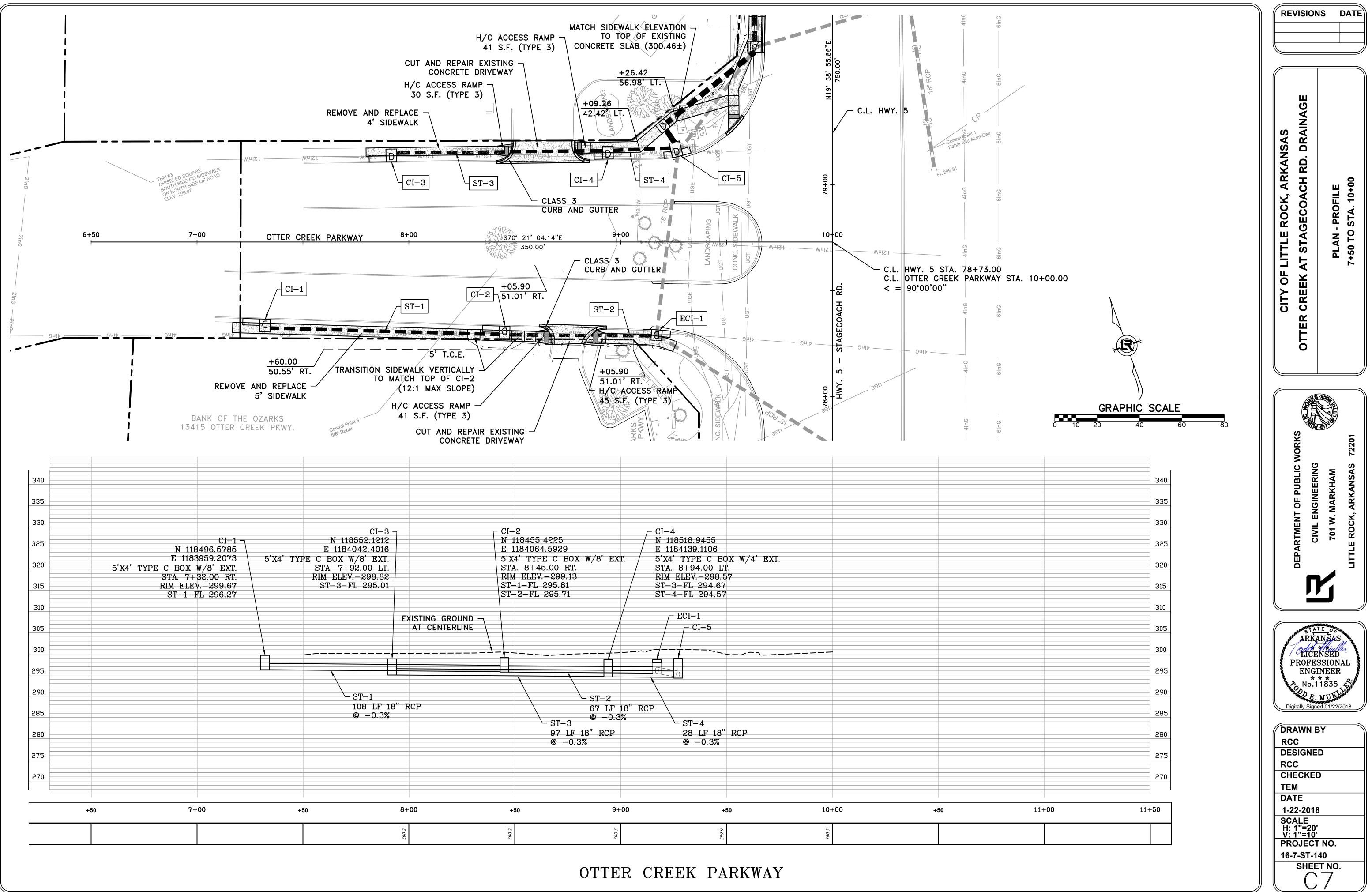


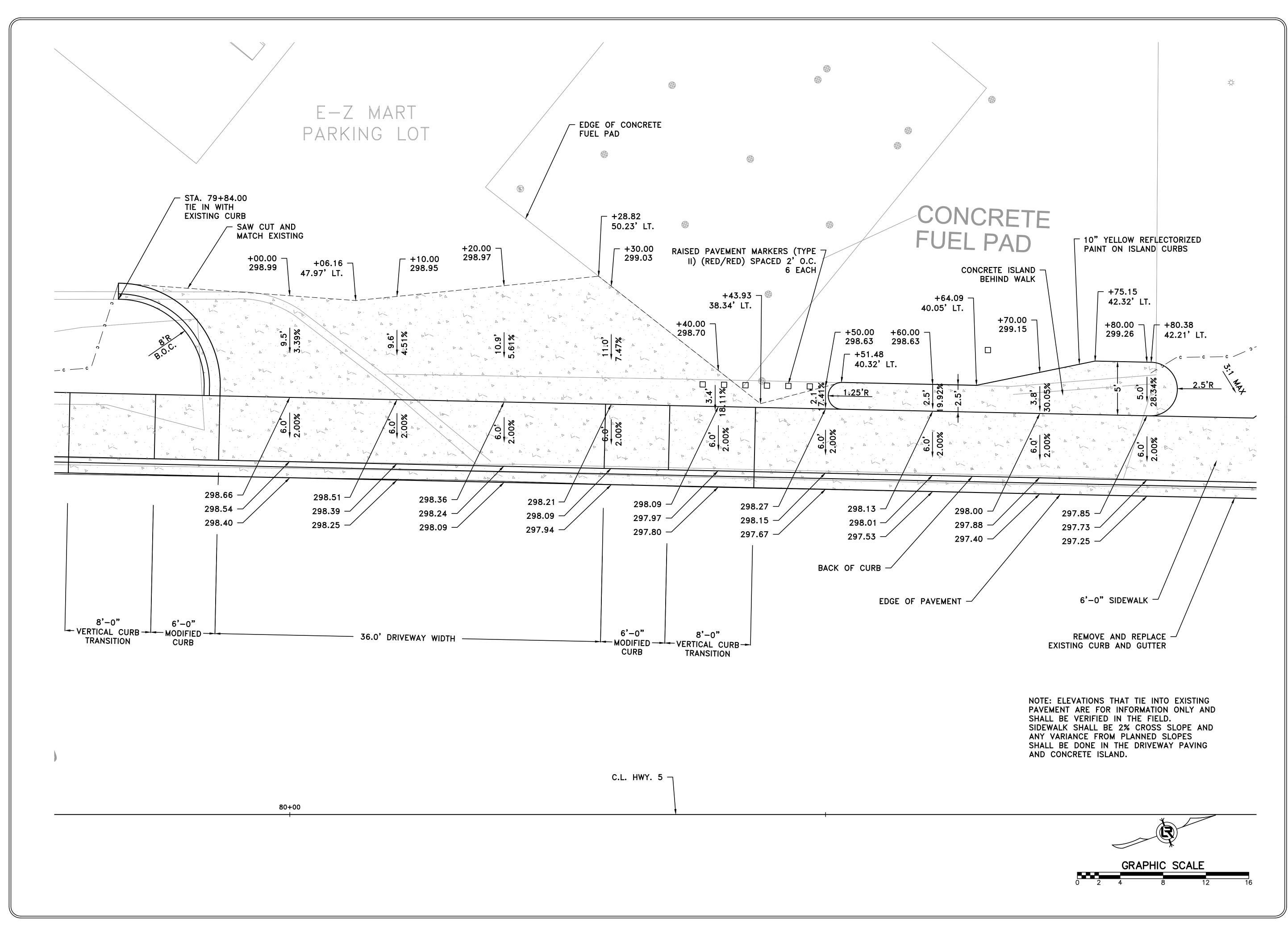


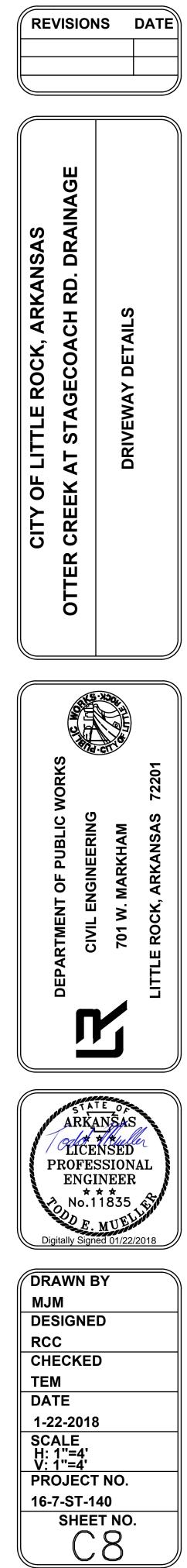


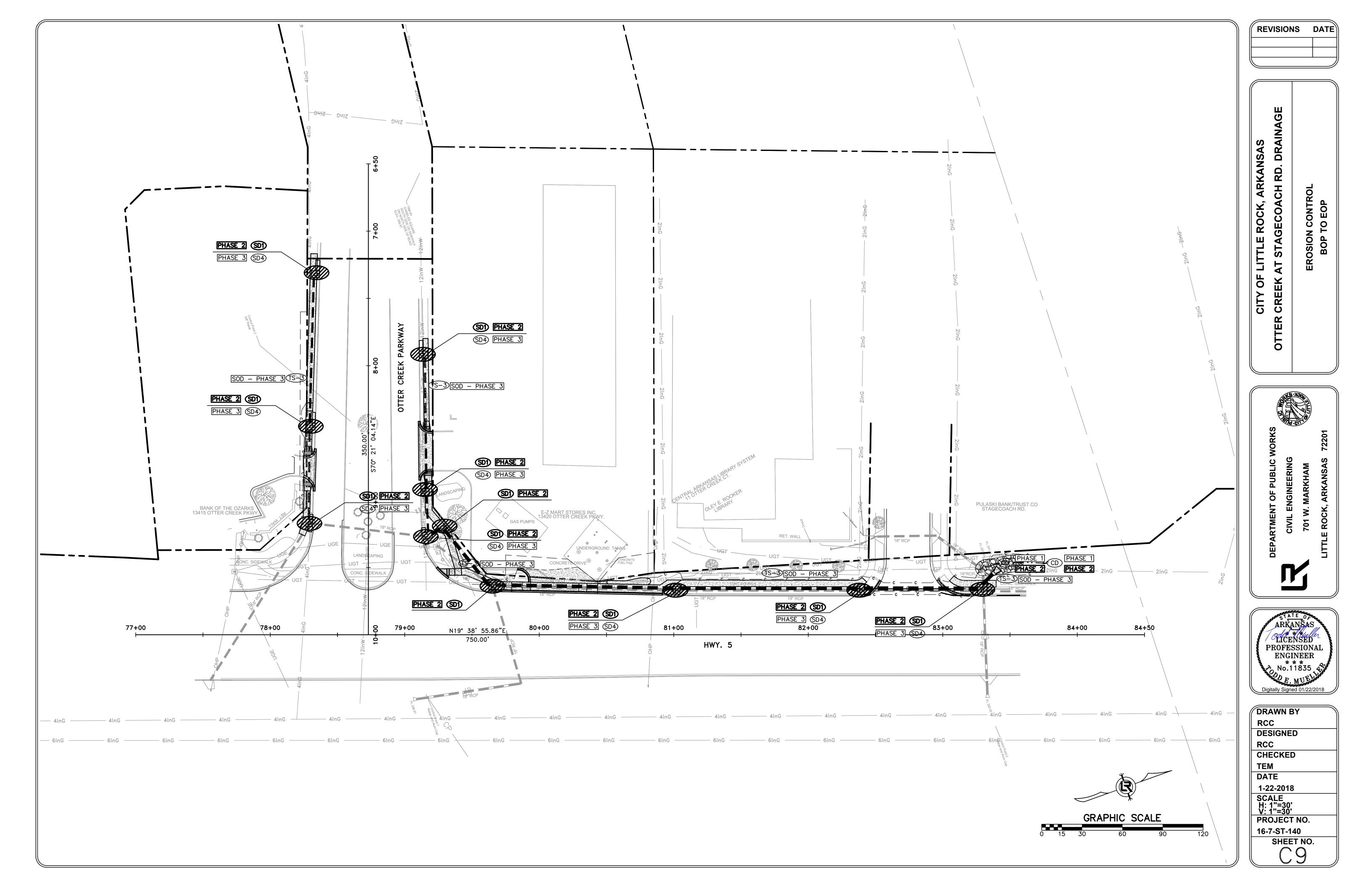
# HWY. 5 (STAGECOACH RD.)

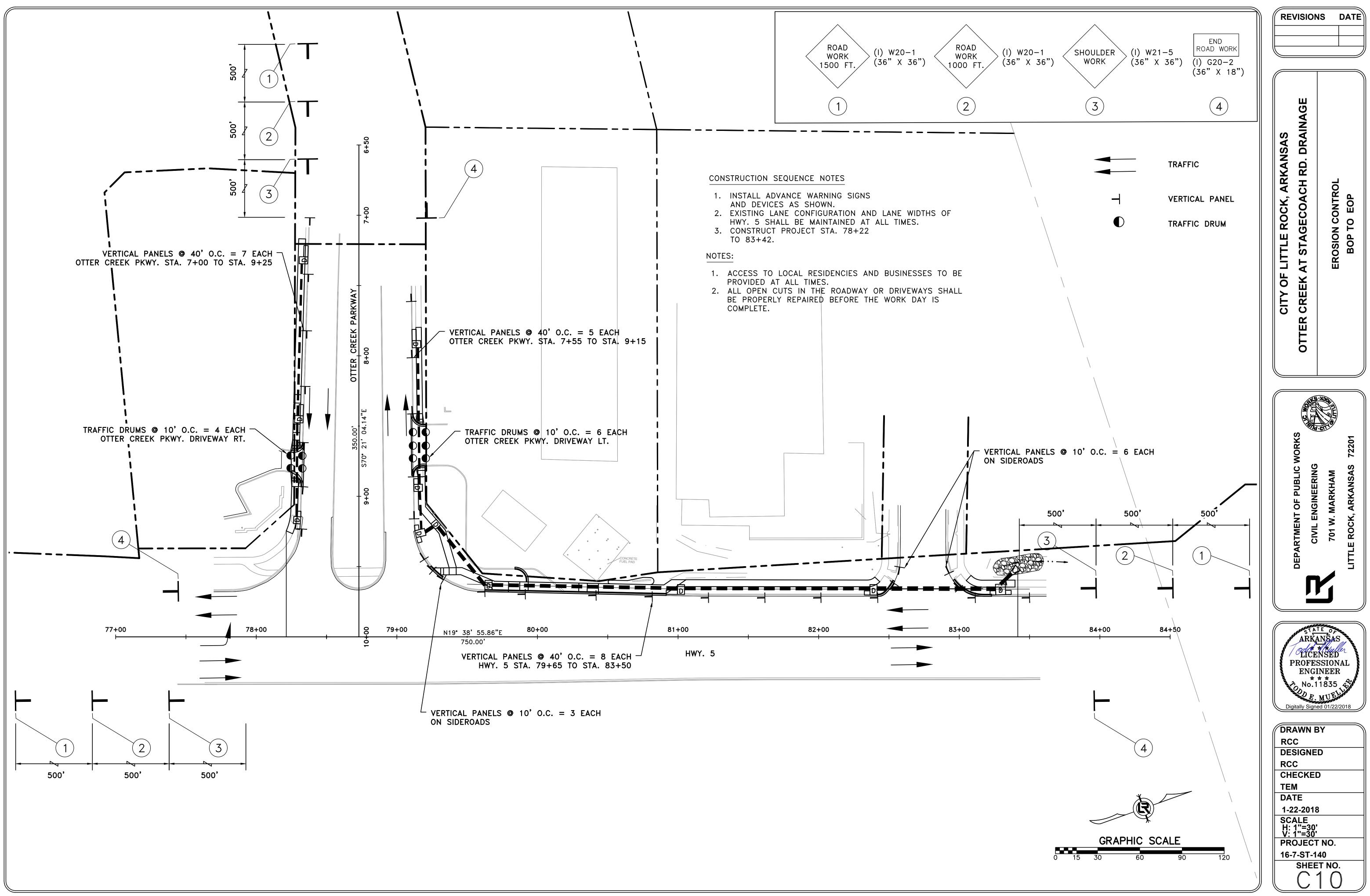


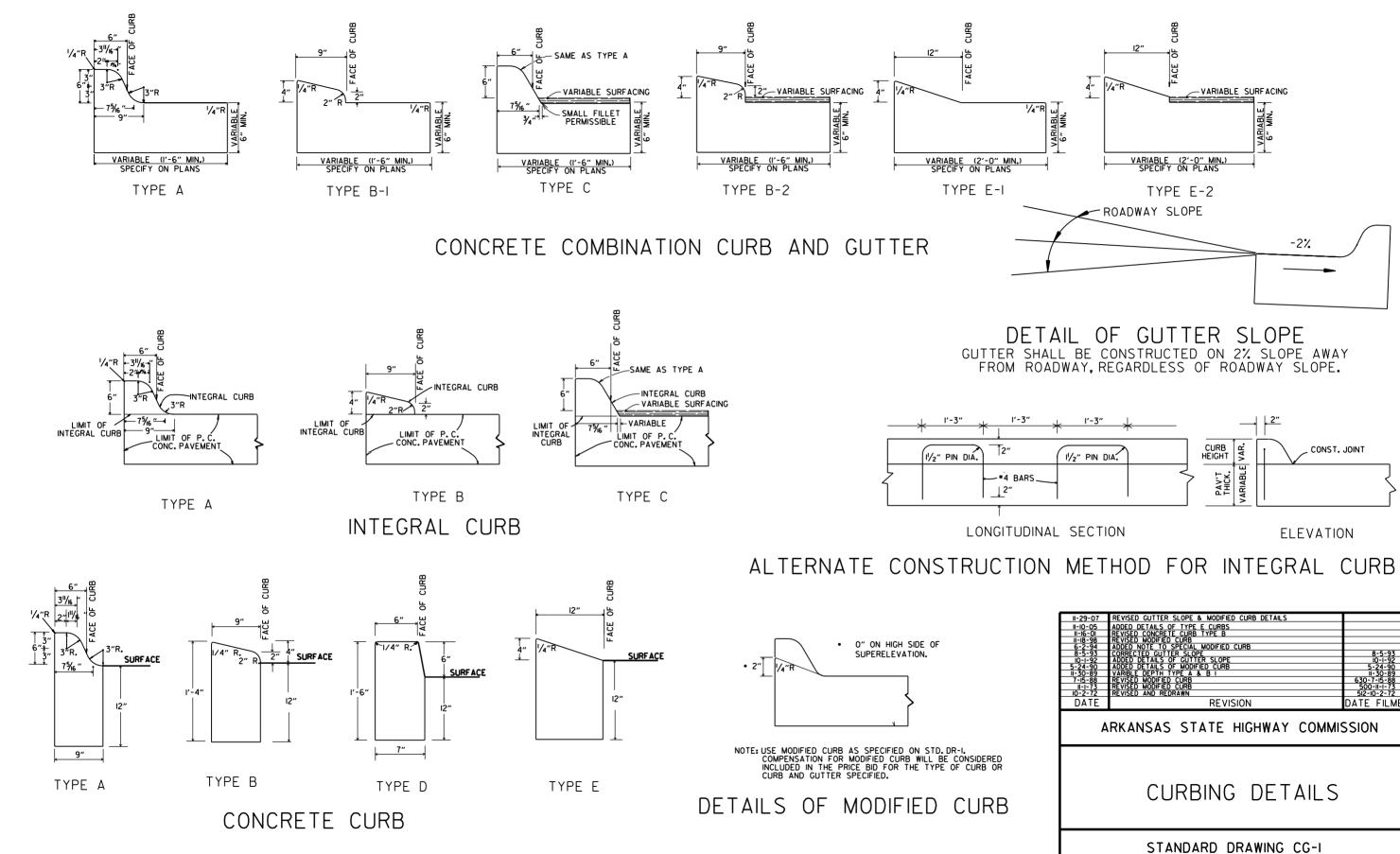




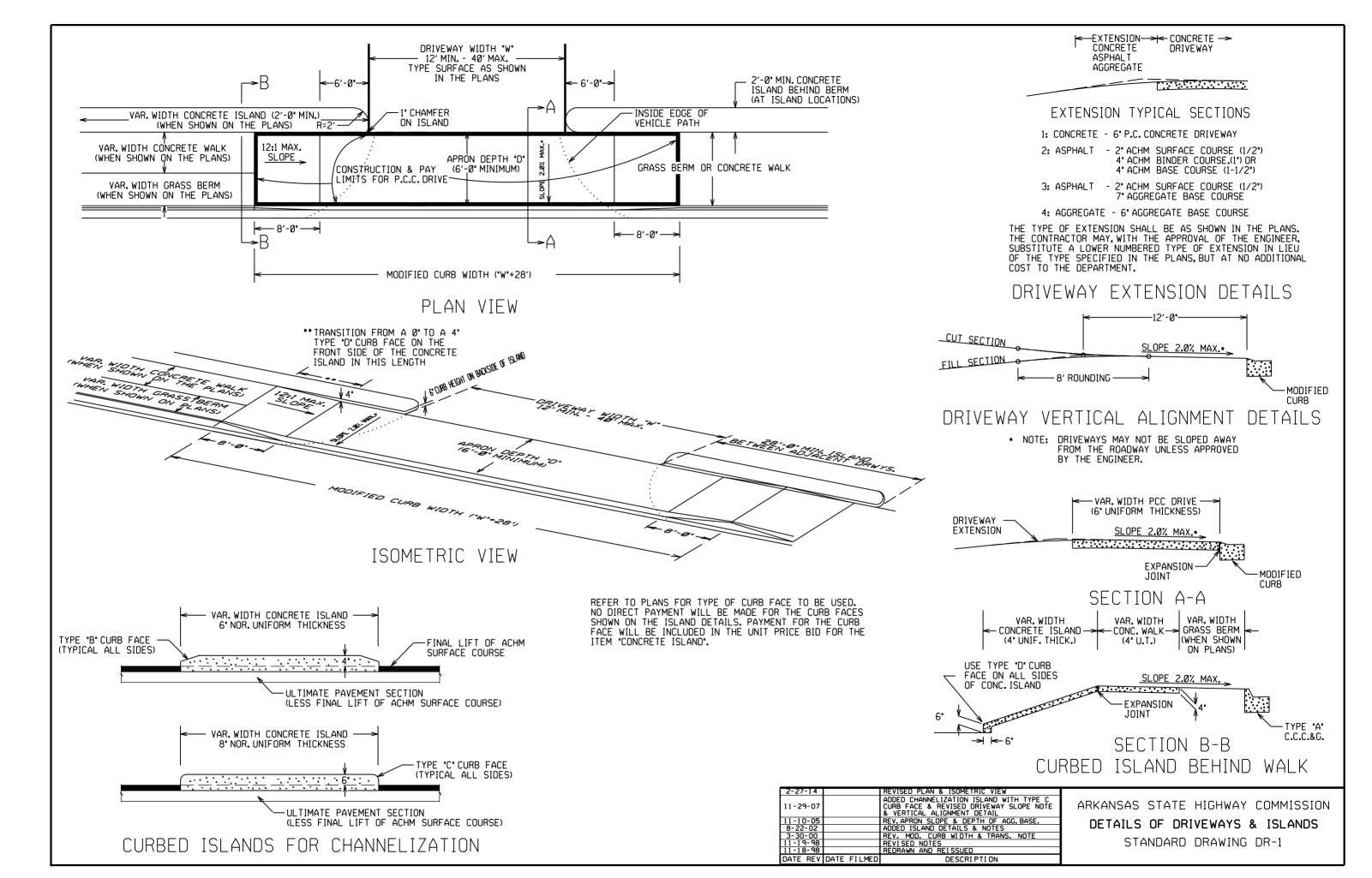


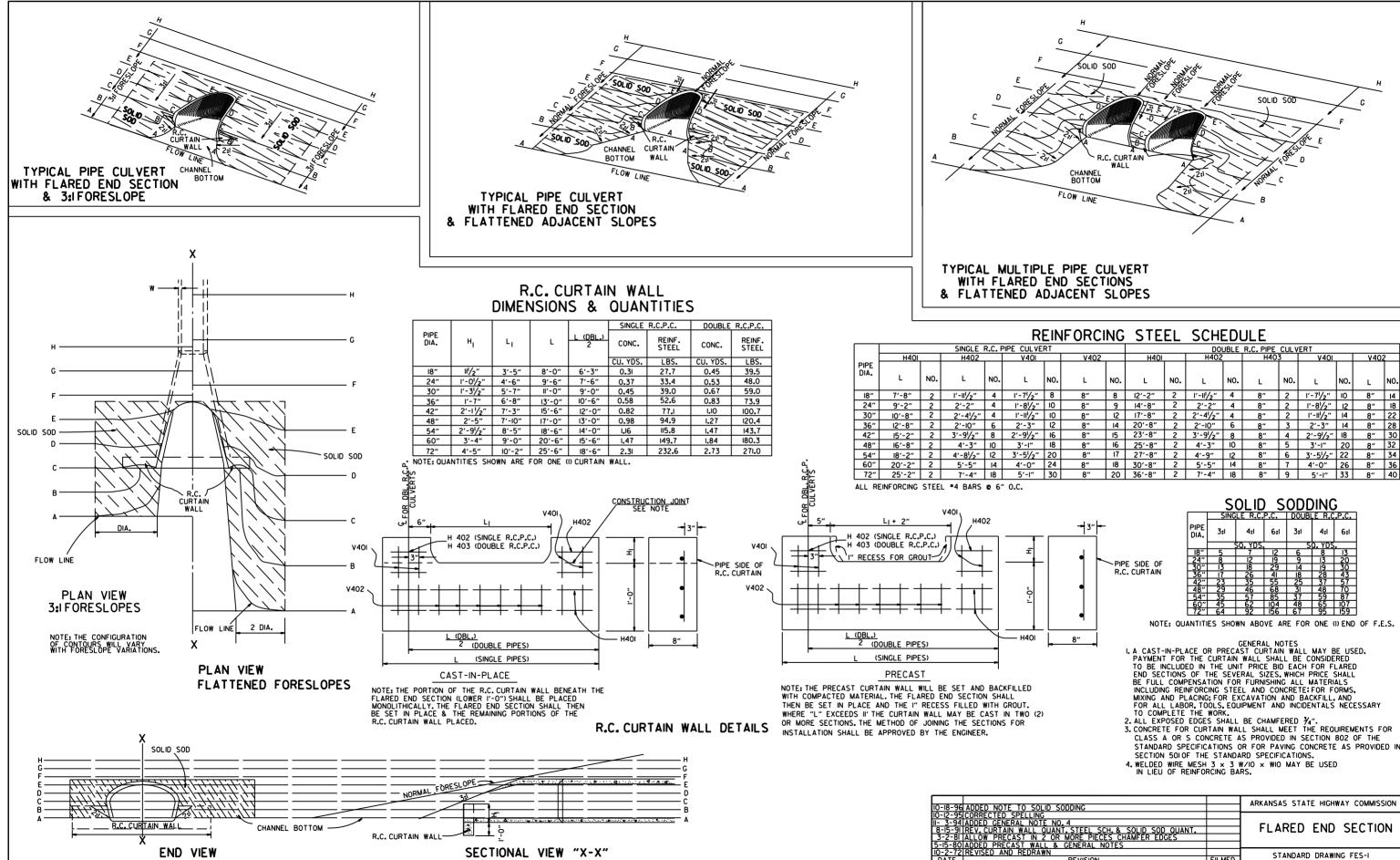






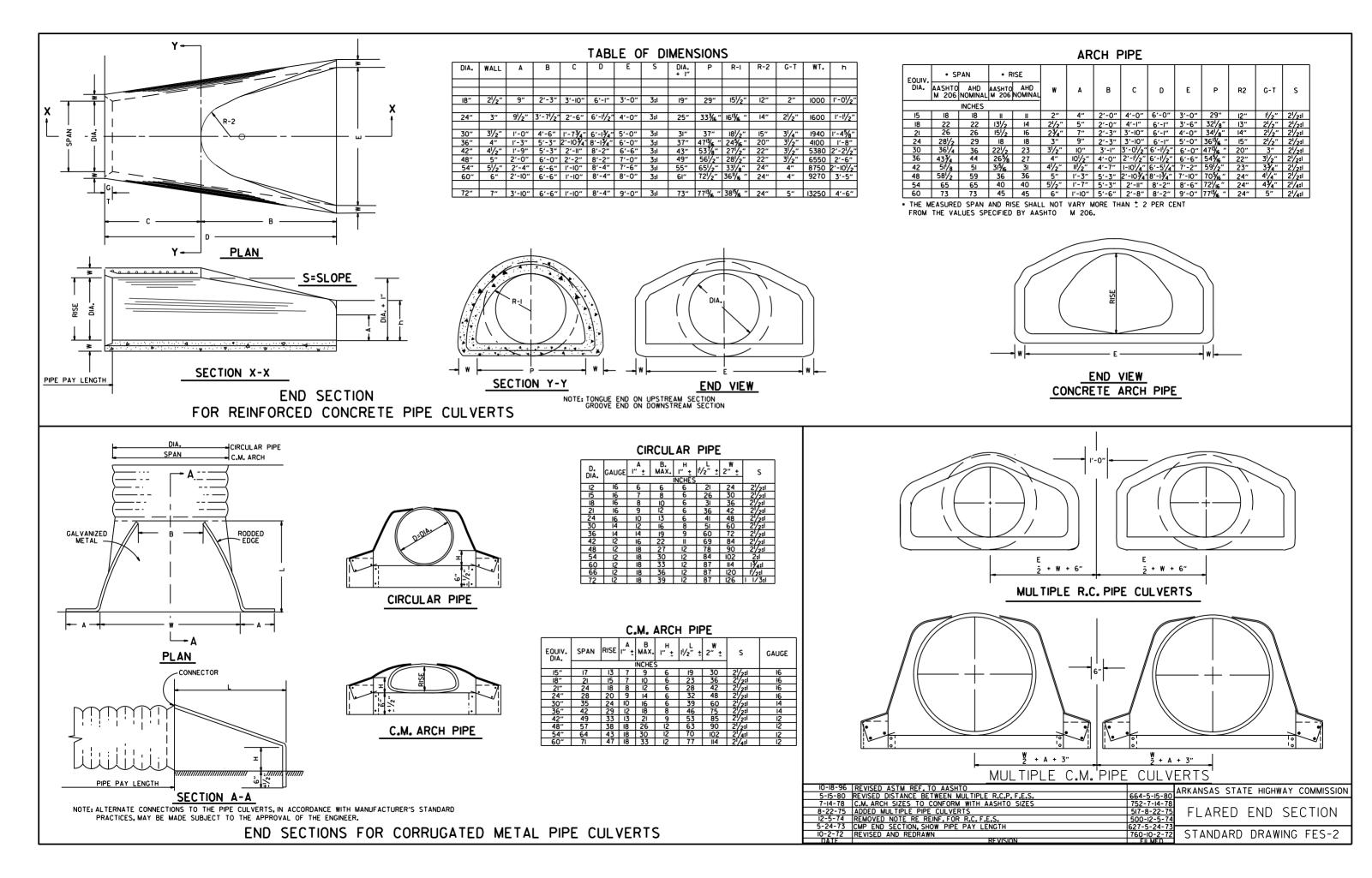
II-29-07	REVISED GUTTER SLOPE & MODIFIED CURB DETAILS	
11-10-05	ADDED DETAILS OF TYPE E CURBS	
11-16-01	REVISED CONCRETE CURB TYPE B	
11-18-98	REVISED MODIFIED CURB	
6-2-94	ADDED NOTE TO SPECIAL MODIFIED CURB	
8-5-93	CORRECTED GUTTER SLOPE	8-5-93
10-1-92	ADDED DETAILS OF GUTTER SLOPE	10-1-92
5-24-90	ADDED DETAILS OF MODIFIED CURB	5-24-90
II-30-89	VARIBLE DEPTH TYPE A & B I	II-30-89
7-15-88	REVISED MODIFIED CURB	630-7-15-88
II-I-73	REVISED MODIFIED CURB	500-11-1-73
10-2-72	REVISED AND REDRAWN	512-10-2-72
DATE	REVISION	DATE FILMED

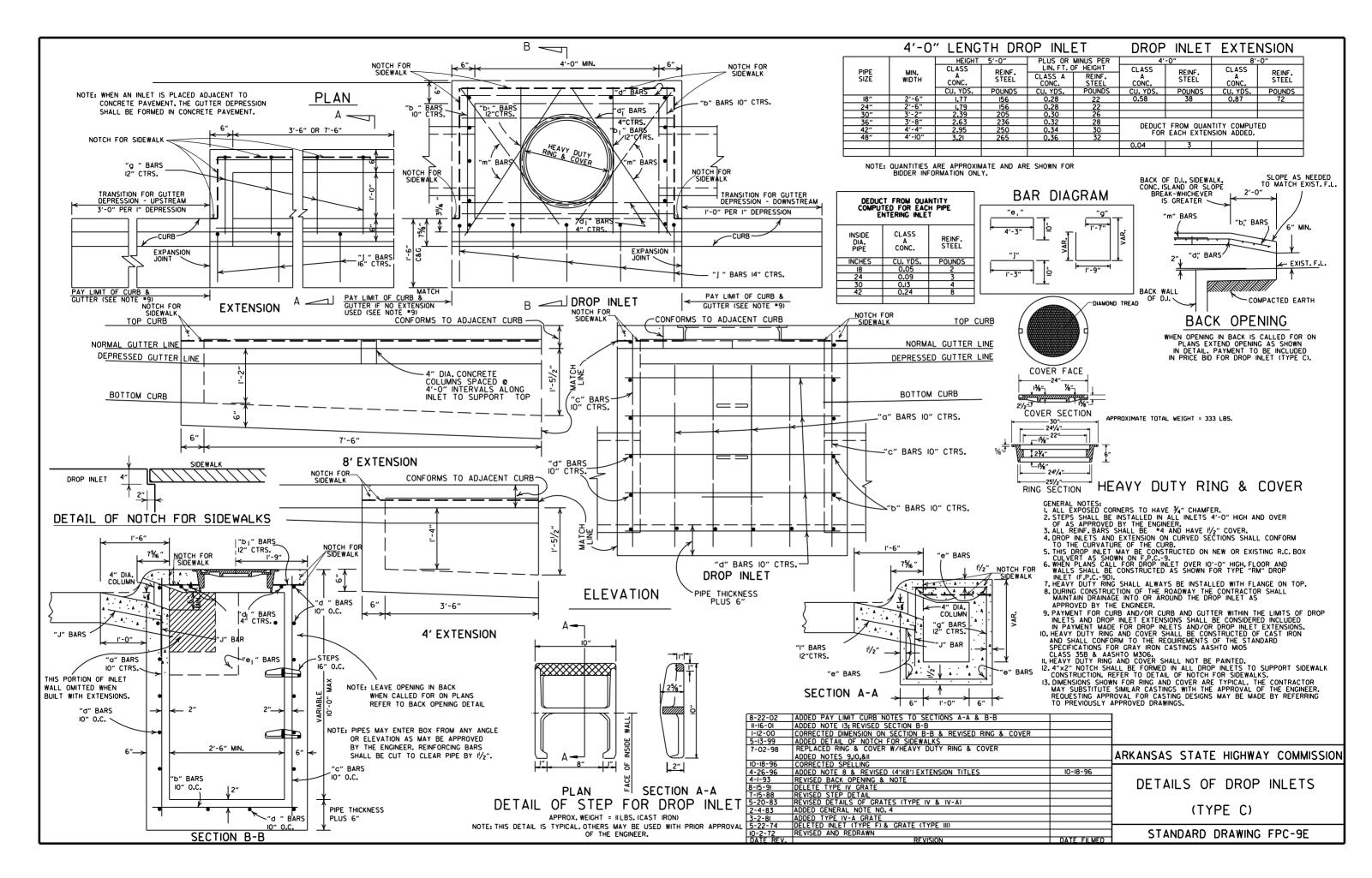


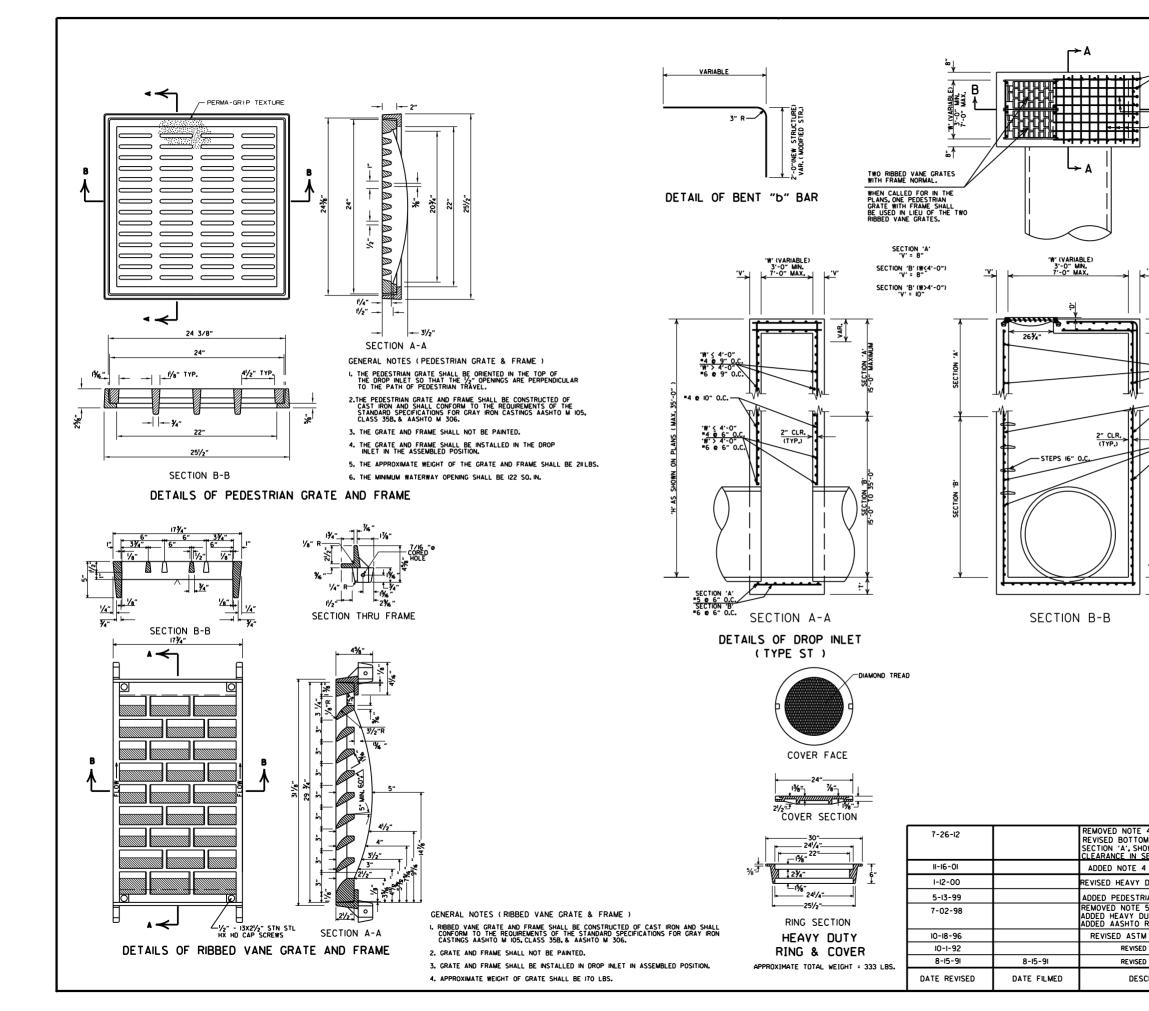


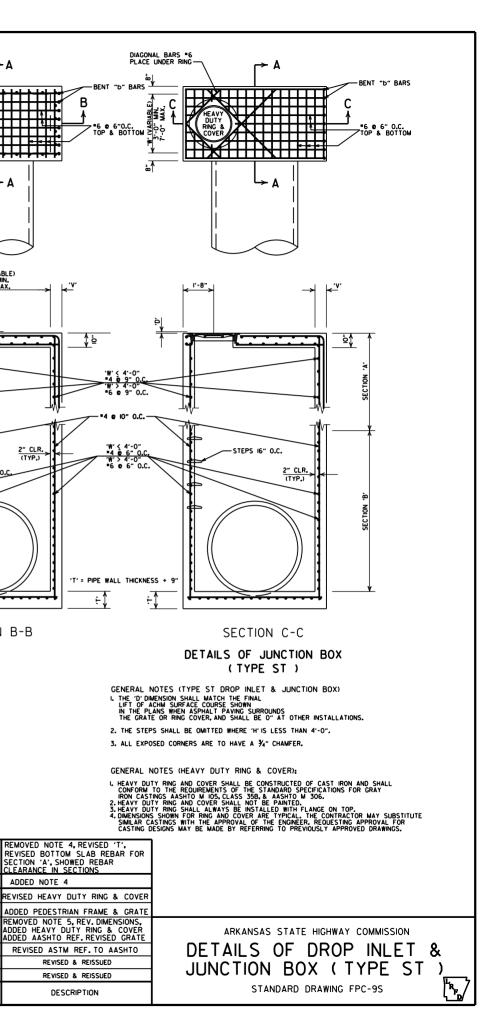
N	FORCI	STE	SCH	EDI	JLE							
		ļ	1		DOI	JBLE	R.C. PIPE	CULV	/ERT			
J	V402		H40I		H402	_	H403	3	V40I		V402	2
	L	N0.	L	NO.	L	NO.	L	N0.	L	NO.	L	NO.
7	8″	8	12'-2"	2	l'-ll ¹ /2"	4	8″	2	l'-7 ¹ /2"	10	8″	14
]	8"	9	14'-8"	2	2'-2"	4	8″	2	I'-8 ¹ /2"	12	8″	18
]	8"	12	17'-8"	2	2'-4 ¹ /2"	4	8"	2	I'-II ¹ /2"	14	8"	22
7	8"	14	20'-8"	2	2'-10"	6	8"	3	2'-3"	14	8"	28
7	8"	15	23'-8"	2	3'-91/2"	8	8"	4	2'-91/2"	18	8"	30
]	8"	16	25'-8"	2	4'-3"	10	8"	5	3'-1"	20	8"	32
]	8″	17	27'-8"	2	4'-9"	12	8"	6	3'-51/2"	22	8″	34
]	8"	18	30′-8″	2	5′-5″	14	8"	7	4'-0"	26	8″	36
	8"	20	36'-8"	2	7'-4"	18	8″	9	5'-I"	33	8"	40

SODDING		ARKANSAS STATE HIGHWAY COMMISSION
0.4		
NT.STEEL SCH.& SOLID SOD QUANT. R MORE PIECES CHAMFER EDGES		FLARED END SECTION
GENERAL NOTES		
REVISION	FILMED	STANDARD DRAWING FES-I
REVISION		









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2" CLR. (TYP.)

# REINFORCED CONCRETE ARCH PIPE DIMENSIONS

EQUIV.	SP	AN	RI	SE
DIA.	AASHTO M 206	AHTD NOMINAL	AASHTO M 206	AHTD NOMINAL
INCHES		INC	HES	
15 18 21 30 36 42 48 54 60 72 84 90 96 108 120 132	18 22 26 281/2 361/4 43% 511/6 581/2 65 73 88 102 115 122 138 154 168%	18 22 26 29 36 44 51 59 65 73 88 102 115 122 138 154 169	11 13½ 15½ 26% 31% 40 45 54 40 45 54 62 72 77½ 87½ 87½ 106%	11 14 16 18 23 27 31 36 40 45 54 62 77 87 97 107

MORE THAN + 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M206

# MINIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

	CLASS OF PIPE				
	CLASS	III	CLASS IV	CLASS V	
INSTALLATION TYPE	TYPE 1 OR 2	TYPE 3	ALL	ALL	
PIPE ID (IN.)		FEE	T		
12-15	2	2.5	2	1	
18-24	2.5	3	2	1	
27-33	3	4	2	1	
36-42	3.5	5	2	1	
48	4.5	5.5	2	1	
54-60	5	7	2	1	
66-78	6	8	2	1	
84-108	7.5	8	2	1	

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

# MINIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

	CLASS OF PIPE				
INSTALLATION TYPE	CLASS III	CLASS IV			
	FEET				
TYPE 2 OR TYPE 3	2.5	1.5			

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

# REINFORCED CONCRETE HORIZONTAL ELLIPTICAL

ł	THE	DIME	NSIUNS	>
	EQUIV.	AASHT	D M 207	
	DIA.	SPAN	RISE	
	INCHES	INC	HES	
	18	23	14	1
	24	30	19	
	27	34	22	
	30	38	24	
	33	42	27	
	36	45	29	
	39	49	32	
	42	53	34	
	48	60	38	
	54	68	43	
	60	76	48	
	66	83	53	
	72	91	58	
	78 84	98	63	
		106	68	]
	THE MEA	ASURED SI	PAN AND R	ISE

SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M207.

# CONSTRUCTION SEQUENCE

I. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT. 2. INSTALL PIPE TO GRADE. 3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE. 4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE MIDDLE OF THE PIPE. 5. COMPLETE BACKFILL ACCORDING TO SUBSECTION 606.03.(†)(1).

NOTE: HAUNCH AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF CONCRETE PIPF.

# - LEGEND -

D1 = NORMAL INSIDE DIAMETER OF PIPE D5 = OUTSIDE DIAMETER OF PIPE H = FILL COVER HEIGHT OVER PIPE (FEET) MIN. = MINIMUM CONSTURBED SOIL

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR HAUNCH AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 5 OR CLASS 7)
TYPE 2	SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4) OR TYPE 1 INSTALLATION MATERIAL*
TYPE 3	AASHTO CLASSIFICATION A-1 THRU A-6 SOIL OR TYPE 1 OR 2 INSTALLATION MATERIAL

* SM-3 WILL NOT BE ALLOWED.

** MATERIALS SHALL NOT INCLUDE ORGANIC MATERIALS OR STONES LARGER THAN 3 INCHES.

# MAXIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

	CLASS OF PIPE				
INSTALLATION TYPE	CLASS III	CLASS IV	CLASS V		
TIFE	FEET				
TYPE 1	21	32	50		
TYPE 2	16	25	39		
TYPE 3	12	20	30		

NOTE: IF FILL HEIGHT EXCEEDS 50 FEET, A SPECIAL DESIGN CONCRETE PIPE WILL BE REQUIRED USING TYPE 1 INSTALLATION.

# M ٥v AL F

	CLASS	OF PIPE	
INSTALLATION TYPE	CLASS III	CLASS IV	
TTFE	FEET		
TYPE 2	13	21	
TYPE 3	10	16	

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

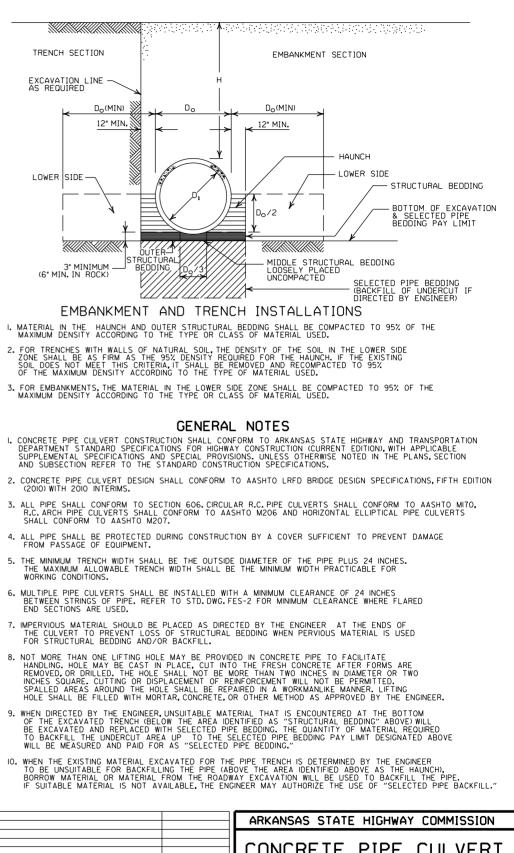
# TRENCH SECTION EXCAVATION LINE AS REQUIRED $D_{O}(MIN)$ 12" MIN. LOWER SIDE -3" MINIMUM (6" MIN. IN ROCK)

- (2010) WITH 2010 INTERIMS.

- WORKING CONDITIONS.
- END SECTIONS ARE USED.

2-27-14	REVISED GENERAL NOTE I.
12-15-11	REVISED FOR LRFD DESIGN SPECIFICATIONS
5-18-00	REVISED TYPE 3 BEDDING & ADDED NOTE
3-30-00	REVISED INSTALLATIONS
II-06-97	ISSUED
DATE	REVISION

					FILL RIZOI	-
ELLI	IPTIC	CAL	PIPI	E CL	JLVEF	RTS



 I CONC	RETE	PIP	E	CULVE	RT
FILL	HEIG	HTS	&	BEDD	ING

DATE FILMED

STANDARD DRAWING PCC-1

"<u>"</u>,

INSTALLATION TYPE	•• MATERIAL REQUIREMENTS FOR STRUCTURAL BACKFILL AND STRUCTURAL BEDDING
TYPE 2	•SELECTED MATERIALS (CLASS SM-I, SM-2 OR SM-4)

AGGREGATE BASE COURSE (CLASS 4, 5, 6, OR 7) MAY BE USED IN LIEU OF SELECTED MATERIAL.

SM3 WILL NOT BE ALLOWED.

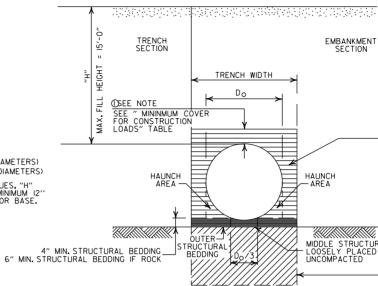
STRUCTURAL BEDDING MATERIAL SHALL HAVE A MAXIMUM PARTICLE SIZE OF INCH. STRUCTURAL BACKFILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, STONES LARGER THAN 1.50 INCH IN GREATEST DIMENSION, OR FROZEN LUMPS.

STRUCTURAL BACKFILL AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF HDPE PIPE.

# MINIMUM TRENCH WIDTH BASED ON FILL HEIGHT "H"

	TRENCH WIDTH (FEET)		
PIPE DIAMETER	"H" < 10'-0"	"H" >OR= 10'-0"	
18"	4'-6"	4'-6"	
24"	5'-0"	6'-0"	
30″	5'-6"	7'-6"	
36"	6'-0"	9'-0"	
42″	7'-0"	10'-6"	
48″	8'-0"	12'-0"	

(NOTE:
18" MIN. (18" - 30" DIAMETERS)
24" MIN. (36" - 48" DIAMETERS)
MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM 12" OF PAVEMENT AND/OR BASE.



# TYPE 2 EMBANKMENT AND TRENCH INSTALLATIONS

I. STRUCTURAL BACKFILL, EMBANKMENT, AND OUTER STRUCTURAL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

# CONSTRUCTION SEQUENCE

I. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.

- 2. INSTALL PIPE TO GRADE.
- 3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
- 4. THE STRUCTURAL BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 8". THE LAYERS SHALL BE BROUGHT UP EVENLY AND SIMULTANEOUSLY TO THE ELEVATION OF THE MINIMUM COVER.

5. PIPE INSTALLATION MAY REQUIRE THE USE OF RESTRAINTS, WEIGHTING OR OTHER APPROVED METHODS IN ORDER TO HELP MAINTAIN GRADE AND ALIGNMENT.

# GENERAL NOTES

- I. PIPE SHALL CONFORM TO AASHTO M294, TYPE S. INSTALLATION SHALL CONFROM TO JOB SPECIAL PROVISION "PLASTIC PIPE" AND SECTION 606 OF THE STANDARD SPECIFICIATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION).
- 2. PLASTIC PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
- 3. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PLUS A SUFFICIENT WIDTH TO ENSURE WORKING ROOM TO PROPERLY AND SAFELY PLACE AND COMPACT HAUNCHING AND OTHER BACKFILL MATERIAL.
- 4. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
- 5. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEODING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
- 6. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS STRUCTURAL BACKFILL), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE, IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."
- 7. FOR PIPE TYPES THAT ARE NOT SMOOTH ON THE OUTSIDE (CORRUGATED OR PROFILE WALLS), BACKFILL GRADATIONS SHOULD BE SELECTED THAT WILL PERMIT THE FILLING OF THE CORRUGATION OR PROFILE VALLEY.
- 8. HIGH DENSITY POLYETHYLENE PIPES OF DIAMETERS OTHER THAN SHOWN WILL NOT BE ALLOWED.
- 9. JOINTS FOR HDPE PIPE SHALL MEET THE REQUIREMENTS FOR SOIL TIGHTNESS AS SPECIFIED IN AASHTO SECTION 26.4.2.4 AND 30.4.2 "AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS." JOINTS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

# - LEGEND -

H = FILL HEIGHT (FT.) B = OUTSIDE DIAMETER OF PIPE MAX. = MAXIMUM MIN. = MINIMUM

 =	STRUCTURAL	BACKFILL	MATERIAL
=	UNDISTURBED	SOIL	

			ARKANSAS STATE HIGHWAY COMMISSION
			PLASTIC PIPE CULVERT
			WITCH DENCITY DOLVETHAL ENEX
			(HIGH DENSITY POLYETHYLENE)
2-27-14			
12-15-11	REVISED GENERAL NOTES & MINIMUM COVER NOTE		
11-17-10	ISSUED		STANDARD DRAWING PCP-1 1 3
DATE	REVISION	DATE FILMED	

# MULTIPLE INSTALLATION OF HIGH DENSITY POLYETHYLENE PIPES

PIPE DIAMETER	CLEAR DISTANCE BETWEEN PIPES
18"	l'-6"
24"	2'-0"
30"	2'-6"
36″	3'-0"
42″	3'-6"
48"	4'-0"

# MINIMUM COVER FOR CONSTRUCTION LOADS

	Ø MIN. COVER (FEET) FOR INDICATED CONSTRUCTION LOADS			
PIPE DIAMETER	18.0-50.0 (KIPS)	50.0-75.0 (KIPS)	75.0-110.0 (KIPS)	II0.0-175.0 (KIPS)
36" OR LESS	2'-0"	2'-6"	3'-0"	3'-0"
42" OR GREATER	3'-0"	3'-0"	3'-6"	4'-0"

MINIMUM COVER SHALL BE MEASURED FROM TOP OF PIPE TO TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE. THE SURFACE SHALL BE MAINTAINED.

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	BOTTOM OF EXCAVATION SELECTED PIPE BEDDING PAY LIMIT
TURAL BEDDING CED	
	SELECTED PIPE BEDDING —— (BACKFILL OF UNDERCUT IF DIRECTED BY ENGINEER)

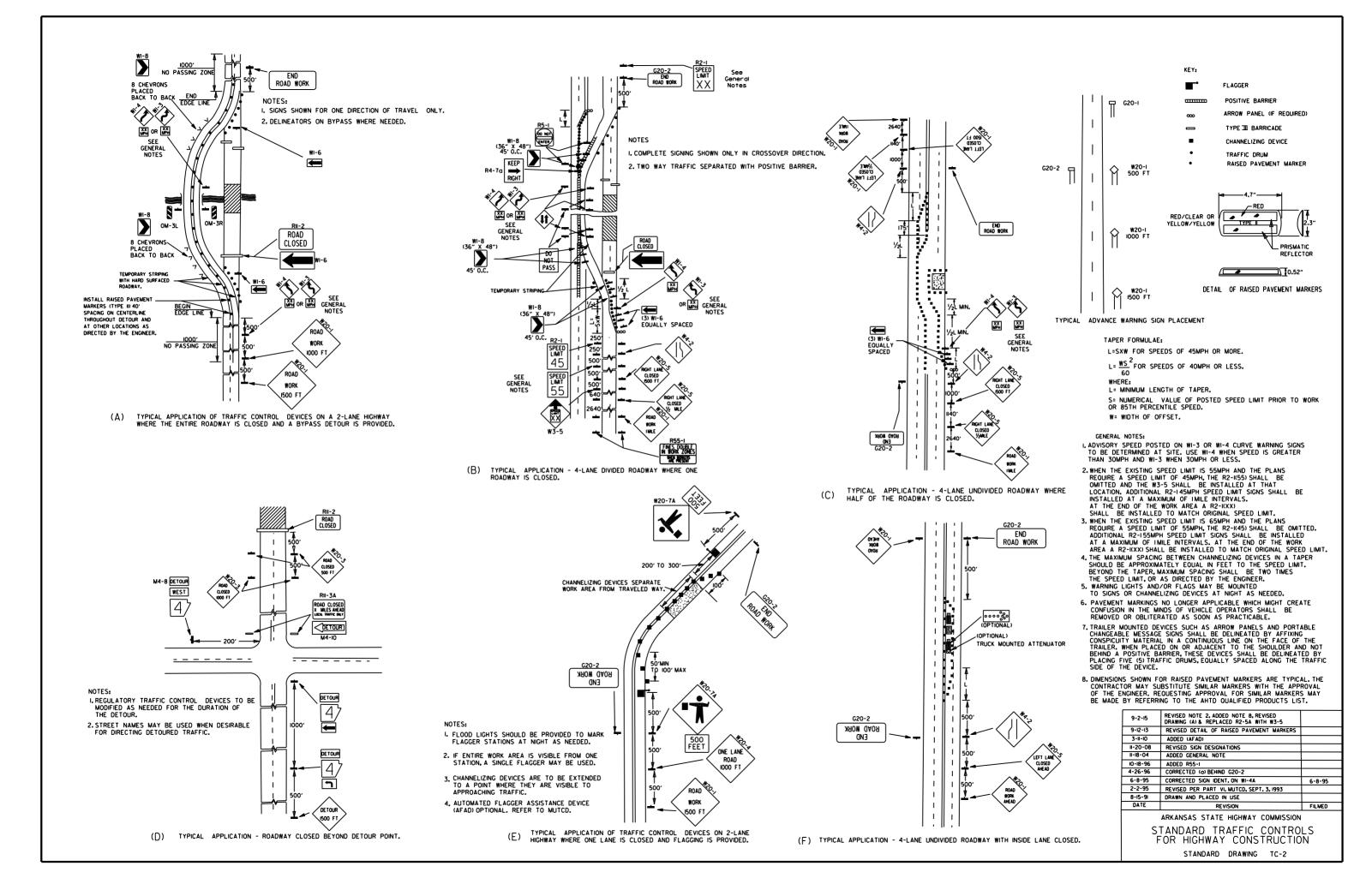
&

- STRUCTURAL BACKFILL

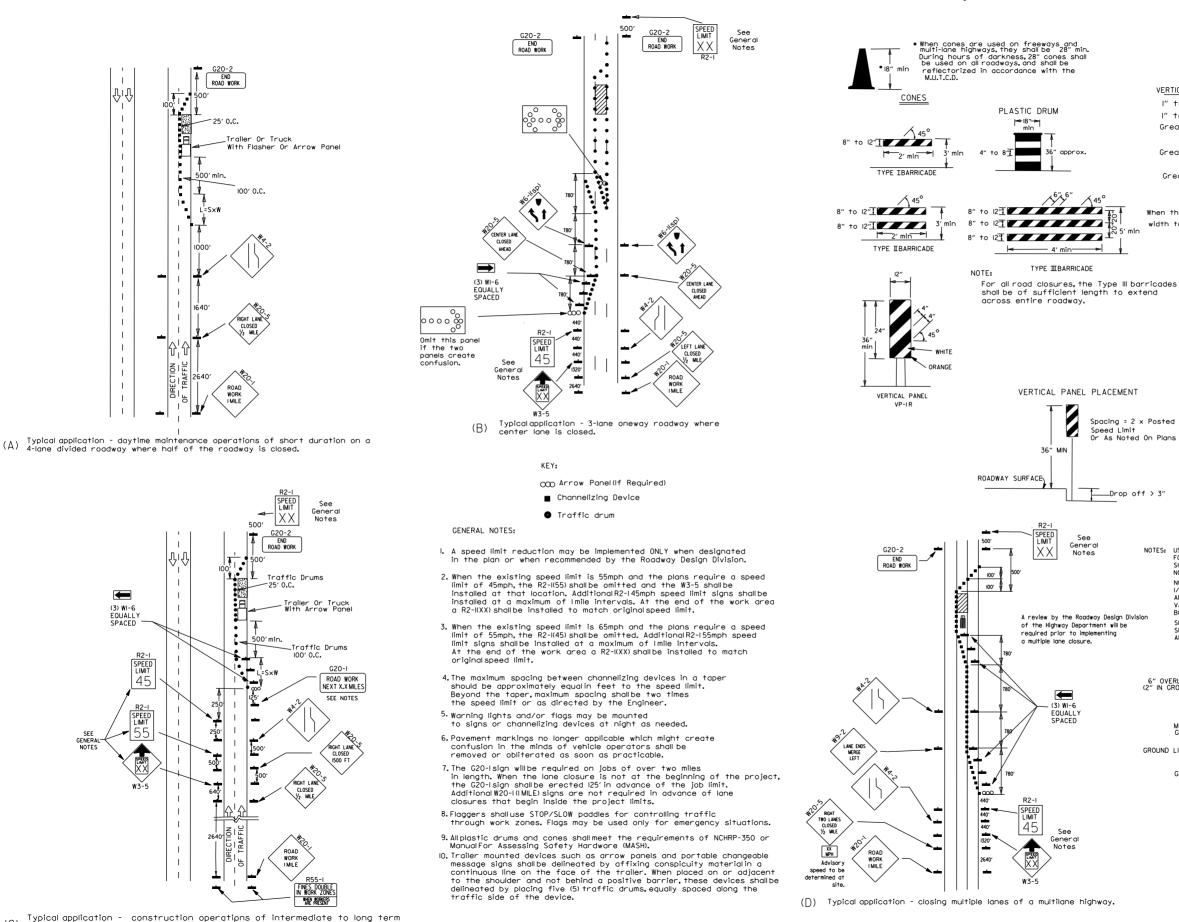
								ADVANCE DISTANCES
RI-I	RI-2 YIELD	R2-I	W3-5	W3-5a	R4-I	R4-2		(XXXX) 500 FT ¹ / ₂ MILE 1000 FT ³ / ₄ MILE 1500 FT I MILE AHEAD
STOP		LIMIT 50	SPEED LIMIT	SPEED ZONE AHEAD	NOT PASS	WITH CARE	THE MANUAL ON UNIFORM TR	S USED ON ROAD CONSTRUCTION SHALL CONFORM TO AFFIC CONTROL DEVICES, LATEST EDITION, AND TO THE EST EDITION, OR AS APPROVED BY THE FEDERAL
STANDARD 30"X30" EXPRESSWAY 36"X36" SPECIAL 48"X48"	STD. 36"X36"X36" EXPWY. 48"X48"X48" FWY. 60"X60"X60"	STD. 24"X30" EXPWY. 36"X48" FWY. 48"X60"	STD. 36"X36" EXPWY. 48"X48" FWY. 48"X48"	STD. 36"X36" EXPWY. 48"X48" FWY. 48"X48"	STD. 24"X30" EXPWY. 36"X48" FWY. 48"X60"	STD. 24"X30" EXPWY. 36"X48" FWY. 48"X60"	OPERATIONS AND SHALL BE PR EXIST. THEY SHALL REMAIN IN 3. EXISTING SIGNS AND CONSTRUC	ALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER. TION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE IMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS
R5-I	RII-2	RII-3A	RII-4	W2I-5a	WI-I	WI-2		AT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT BE CLEANED, REPAIRED, OR REPLACED.
DO NOT	ROAD	ROAD CLOSED	ROAD CLOSED	RIGHT			OR LARGER THAN IO SO. FT. SH BARRICADE. • 5. SIGN POSTS DIRECT BURIED IN	ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" HALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"×4"
ENTER	CLOSED	XX MILES AHEAD	THRU TRAFFIC	CLOSED			WHITE.ALL POSTS SHALL BE N REPAIRED AS NEEDED FOR THE	5 SHALL BE PAINTED GREEN, WOOD POSTS SHALL BE PAINTED IEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN DOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE 4 STANDARD DRAWING TC-3.
STD. 30"X30" EXPWY. 36"X36" SPECIAL 48"X48"	48"X30"	60"X30"	60"X30"	STD. 36"X36" FWY. 48"X48"	STD. 36"X36" FWY. 48"X48"	STD. 36"X36" FWY. 48"X48"	THE SIGN FROM 6 TO 12 FEET BARRICADE MOUNTED SIGNS SH	L AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND ALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT
WI-3	WI-4	WI-6	WI-8	W3-I	W3-2	W4-2	A MINIMUM DISTANCE OF 7' FRO ALL POST AND BARRICADE MOU A MINIMUM DISTANCE OF 7' FRO EXCEPT A MINIMUM OF 6' SHALL WARNING SIGN. TEMPORARY SIGI INTERMEDIATE TERM STATIONAR SHALL BE 5'. RETROREFLECTIVE MOUNTED ON PORTABLE SUPPO CONDITIONS. THEY SHALL BE NO	INTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED M THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. INTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED M THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. L BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A NS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR Y WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT E DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE RTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE O LESS THAN ONE (I) FOOT ABOVE THE TRAVELED WAY. SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS
STD. 48"X48"	STD. 48"X48"	STD. 48"X24" SPECIAL 60"X30"	SPECIAL 24"X30" EXPWY. 30"X36" FWY. 36"X48"	STD. 36"X36" SPECIAL 48"X48"	STD. 36"X36" SPECIAL 48"X48"	STD. 36"X36" FWY. 48"X48"	NECESSITATE THE USE OF POR	TABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE LAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED
W5-I	W6-3	W8-7	W9-2	WI3-I	W20-I	W20-2	W20-3	PADDLES, FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS.
ROAD		LOOSE GRAVEL	LANE ENDS MERGE RIGHT	M.P.H.	ROAD WORK XXXX	DETOUR	ROAD CLOSED XXXX	<ol> <li>MOST OF THE SIGNS SHOWN ARE ORIENTED TO THE RIGHT. HOWEVER, THIS DOES NOT PRECLUDE THE USE OF MIRROR IMAGES OF THESE SIGNS WHERE THE REVERSE ORIENTATION MIGHT BETTER CONVEY TO MOTORISTS THE PROPER DIRECTION OF MOVEMENT.</li> <li>R55-ISIGNS SHALL BE PLACED AT LEAST 1500' BUT NOT MORE THAN IMILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN</li> </ol>
STD. 36"X36" SPECIAL 48"X48"	EXPWY. 36"X36" SPECIAL 48"X48"	EXPWY. 36"X36" FWY. 48"X48"	STD. 36"X36" FWY. 48"X48"	STD. 24"X24"	STD. 48"X48"	STD. 48″X48″	STD. 48"X48"	ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN. • NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND VERTICAL PANELS THAT ARE DIFFERENT FROM
W20-4 ONE LANE ROAD XXXX	W2O-5 RIGHT LANE CLOSED XXXX	W20-7g W20-7g W20-7g W5-2 W5-2 W5-2	FRESH OIL	W2I-5 SHOULDER WORK	W24-1	WI-4b	R56-1 CONTROLLED ACCESS HWY. NO EXIT	THE REQUIREMENTS SHOWN IN NOTES 4 & 5, BUT MEET THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH), WILL BE ACCEPTED, COMPLIANCE WITH THE REQUIREMENTS OF NCHRP-350 OR MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) IS REQUIRED FOR ALL PROJECTS.         4-13-17       DELETED RSP-1 & ADDED W21-50 9-2-15         9-2-15       REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED ROAD WORK NEXT XX MILES         12-5-11       REVISED W24-1 11-17-10
STD. 48"X48"	STD. 48"X48"	STD. 36"X36" FWY. 48"X48"	STD. 30"X30" SPECIAL 36"X36"	STD. 30"X30" SPECIAL 36"X36"	STD. 36"X36"	STD. 48"X48"	STD. 18"X18"	IO-15-09         ADDED         REFERENCE         TO         MASH         & ADDED         SIGN         W24-1           4-17-08         REVISED         SIGN         DESIGNATIONS         III-18-04         REVISED         NOTES           II-08-04         REVISED         NOTES         III-18-04         REVISED         NOTES
W8-II	W8-9	G20-1	G20-2	OM-3L OM-3R	M4-9	M4-I0	R55-I	II-9-US REVISED NOTE 1 II-I6-01 REVISED NOTE 7 9-28-00 REVISED NOTE II-I8-98 ADDED NOTE
				YELLOW	DETOUR		FINES DOUBLE	6-26-97 REVISED NOTE 5 4-03-97 REVISED NOTE 5
UNE VEN LANES	SHOULDER	ROAD WORK	END ROAD WORK	BLACK-		DETOUR	IN WORK ZONES	10-18-96         ADDED CONTROLLED ACCESS HWY, SIGN & TO NOTE 7           10-12-95         ADDED R55-1           6-8-95         REVISED TO CORRECT SIGN ILLUSTRATIONS           6-8-95         REVISED TO CORRECT SIGN ILLUSTRATIONS           8-16-95         REVISED PER PART VI, MUTCD SEPT. 3, 1993           8-15-91         DRAWN AND PLACED IN USE           DITE         DEFUNCTION
STD. 36"X36" FWY. 48"X48"	STD. 36"X36" FWY. 48"X48"	60"X24"	48"X24″	I2"X36"	STD. 30"X24" SPECIAL 48"X36" SPECIAL 60"X48"	48"XI8"	ARE PRESENT •• 36"x60" • USE 6" C LETTERS • USE 4" D LETTERS	DATE         REVISION         FILMED           ARKANSAS STATE HIGHWAY COMMISSION         STANDARD TRAFFIC CONTROLS         FOR HIGHWAY CONSTRUCTION           STANDARD DRAWING TC-I         STANDARD DRAWING TC-I         STANDARD DRAWING TC-I
L					1	1	USL - D LETTERS	

500	FT	1/2	MILE
1000	FT	3/4	MILE
1500	FT	1	MILE
		4	HEAD

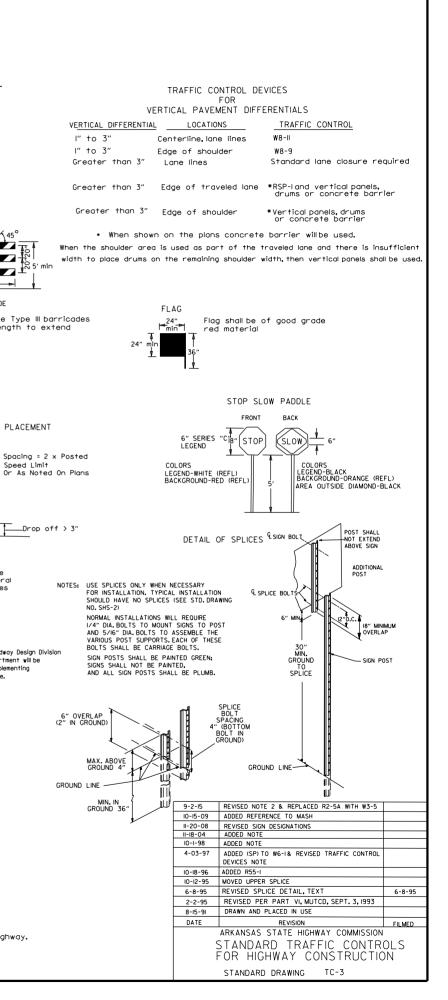
- STOP-SLOW FOR EMERGENCY
- NTED TO THE LUDE THE NS WHERE THE CONVEY TO MOVEMENT.
- AST ISOO' BUT THE WORK IN EFFECT, M OF 500' IN HEAD" SIGN.
- ES, AND TERENT FROM IES 4 & 5, NCHRP-350 IY HARDWARE WPLIANCE WITH O OR MANUAL E (MASH) IS

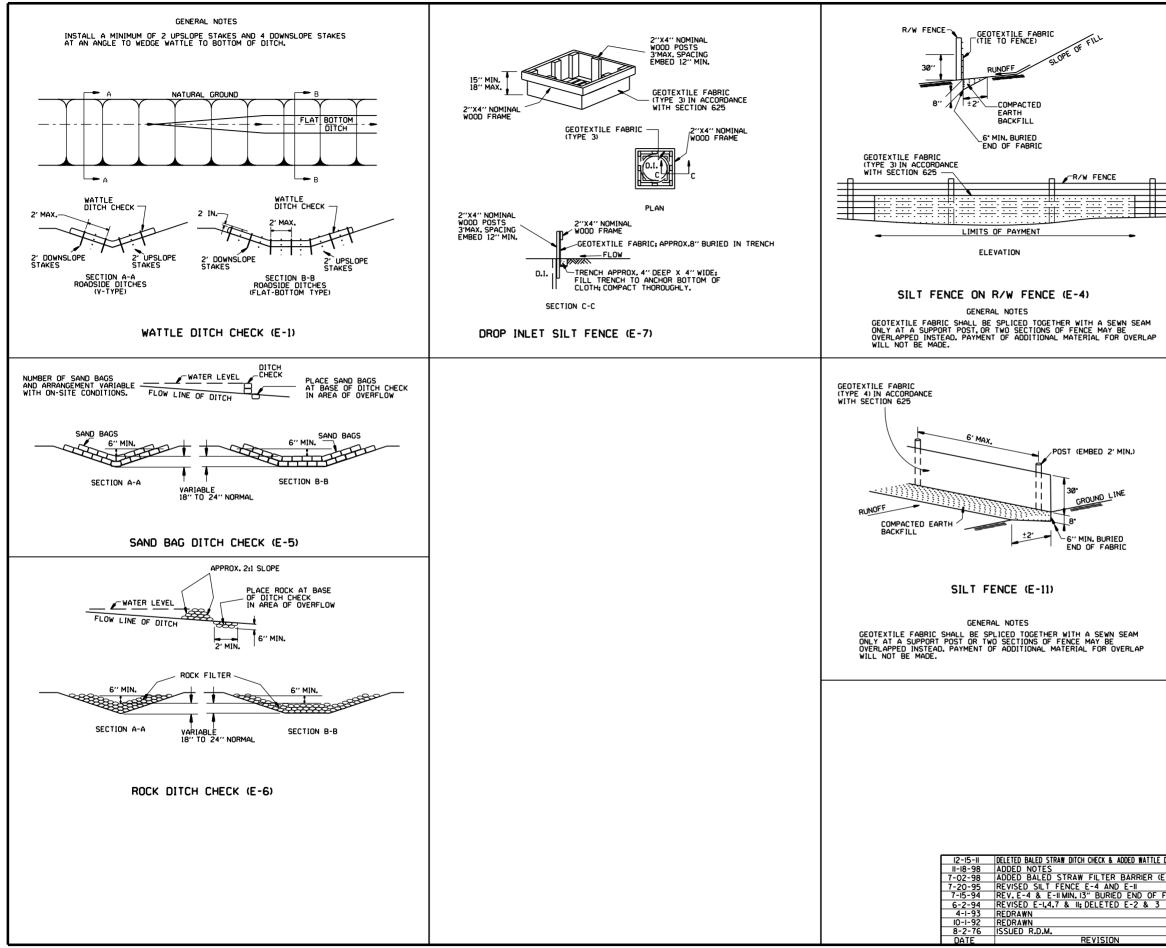


Channelizing devices

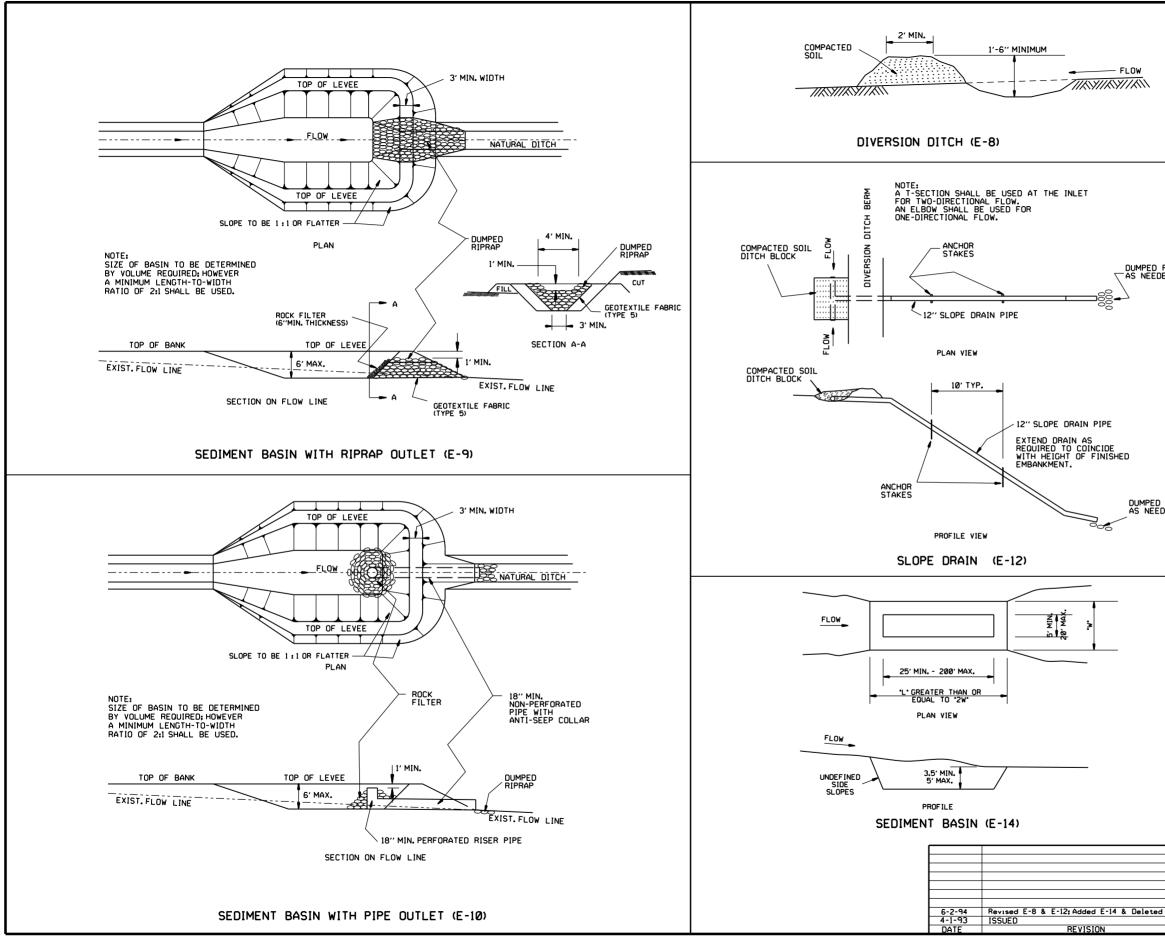


(C) duration on a 4-lane divided roadway where half of the roadway is closed.

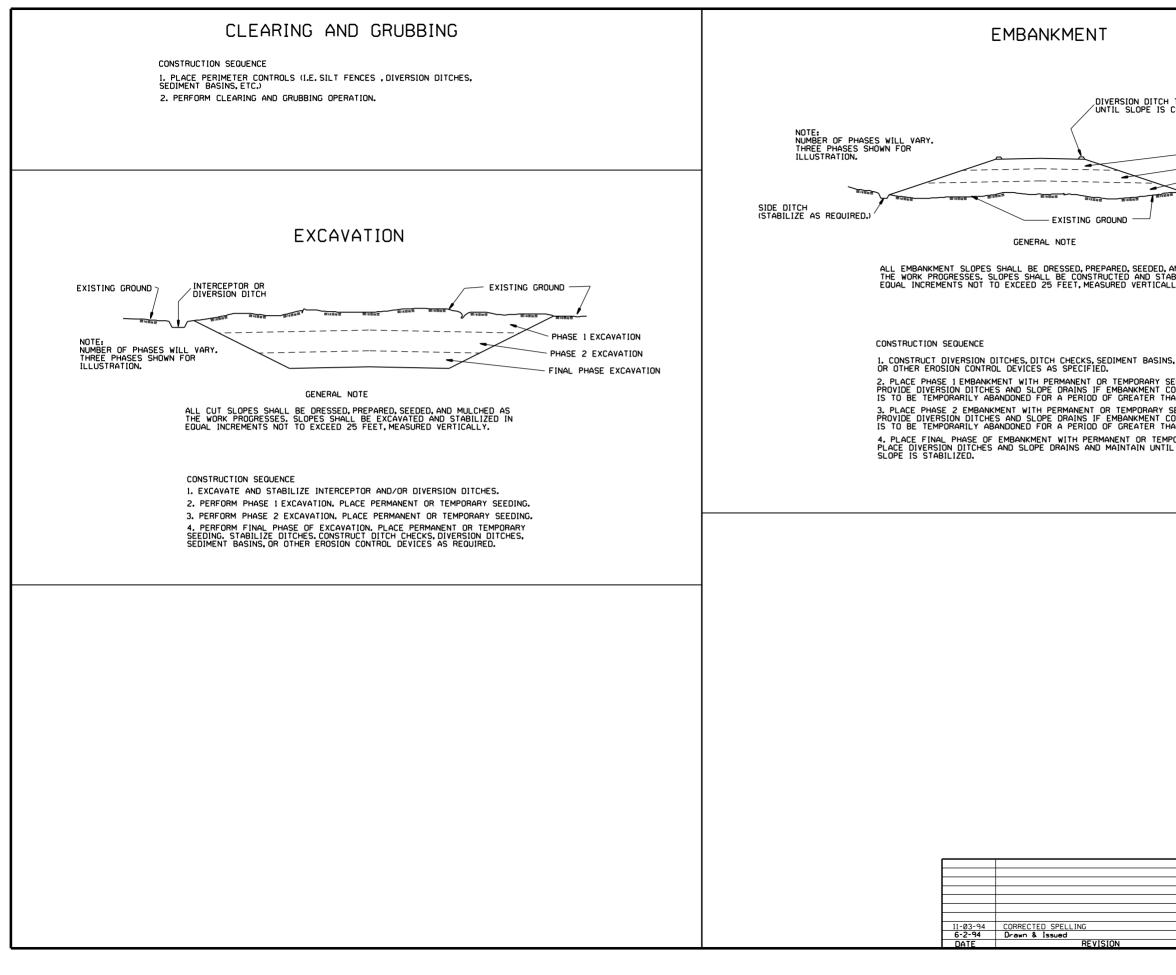




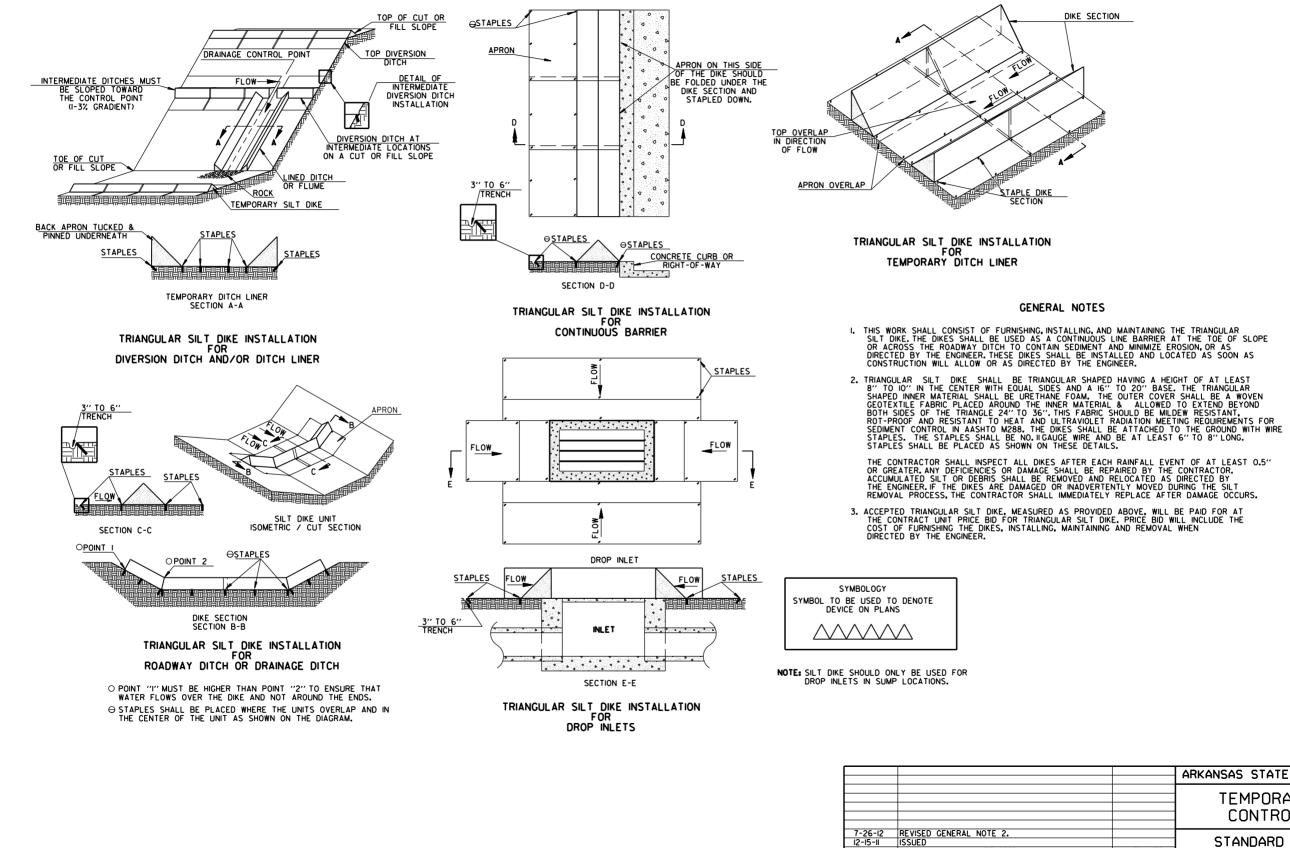
			GENERAL NOTES
		1. STRAW BALES ORIENTED ARC AND BOTTOMS OF 30 INCHES	S SHALL BE INSTALLED SO THAT THE BINDINGS ARE JUND THE SIDES RATHER THAN ALONG THE TOPS S OF THE BALES. THE BALES SHALL BE A MINIMUM IN LENGTH.
			ALL BE LEFT BETWEEN BALES.
		3. BALED STRAN WILL BE MEA BY THE ENGI UNIT PRICE	W FILTER BARRIERS COMPLETED AND ACCEPTED SURED BY THE BALE IN PLACE AS AUTHORIZED NEER AND WILL BE PAID FOR AT THE CONTRACT BID PER BALE FOR BALED STRAW DITCH CHECKS.
			BALED STRAW FILTER BARRIER (E-2)
DITCH E-2)	CHECK		ARKANSAS STATE HIGHWAY COMMISSION
FABR	IC	7-20-95 6-2-94	TEMPORARY EROSION CONTROL DEVICES
		298-7-28-76 FILMED	STANDARD DRAWING TEC-1



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		ARKANSAS STATE HIGHWAY COMMISSION
		 TEMPORARY EROSION
		CONTROL DEVICES
ed E-13		
		STANDARD DRAWING TEC-2

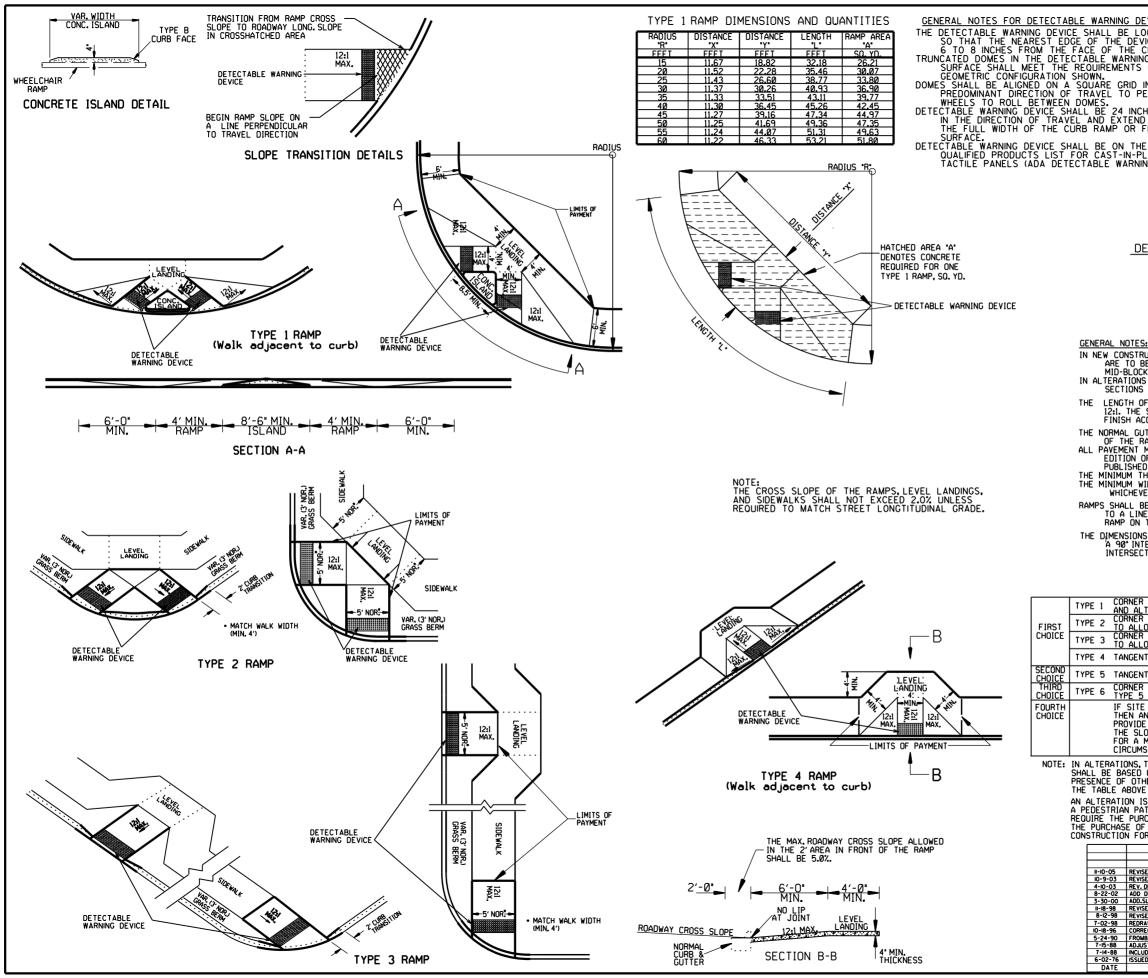


CH TO BE IN PLACE S COMPLETELY STABILIZED	D.	
FINAL PHASE EMI PHASE 2 EMBANKI PHASE 1 EMBANKM	MENT IENT	
L VARIOUS EROSIO CONTROL DEVICE	ES	
D, AND MULCHED AS TABILIZED IN ALLY.		
NS, SILT FENCES,		
SEEDING. CONSTRUCTION THAN 21 DAYS. Y SEEDING. CONSTRUCTION THAN 21 DAYS. MPORARY SEEDING. TIL ENTIRE		
	ARKANSAS STAT	E HIGHWAY COMMISSION
		ARY EROSION OL DEVICES
6-2-94 FILMED	STANDARD	DRAWING TEC-3



REVISION

	ARKANSAS STATE HIGHWAY COMMISSION
	TEMPORARY EROSION CONTROL DEVICES
FILMED	STANDARD DRAWING TEC-4



DEVICES OCATED VICE IS CURB. NG S OF THE	50	0-65% of Base Dia.		
IN THE	TRUNCAT DOME	ed 0.9"-1.4"		
CHES ID FLUSH		0000		
HE AHTD PLACE I.6"	Min. Max.	L.6" Min. 0.65" Min. 2.4" Max. Base-Base		
DETECTABLE WAR	NING D	EVICE DETAIL		
BE PROVIDED AT ALL CC CK CROSSWALK LOCATION S WHEELCHAIR RAMPS A S WITH PEDESTRIAN TRA OF THE RAMP SHALL BE SURFACE TEXTURE OF ACCORDING TO SECTION & GUTTER GRADE SHALL BE RAMP. MARKINGS SHALL BE IN OF THE MANUAL OF UNIT ED BY THE FEDERAL HIG THICKNESS OF THE RAMP WIDTH OF THE RAMPS SH VER IS GREATER. BE MODIFIED AS NECESS NE DRAWN FROM THE CE IN THE OPPOSITE SIDE OF NS AND QUANTITIES SHO CTIONS WILL VARY, AND RAMP SEL R LOCATIONS WITH THE LOW THE REQUIRED RAM R LOCATIONS WITH THE	RERES OI VS. RE TO BE FFIC AND SUCH TH THE RAMF 302.19. MAINTAIN ACCORDA FORM TRA FORM	NCE WITH THE LATEST AFFIC CONTROL DEVICES MINISTRATION. LANDING SHALL BE 4°. THE WALK WIDTH OR 36°. NSURE THAT THEY ARE PARALLEL ONE RAMP TO THE CENTER OF THE ERSECTION.		
NT LOCATIONS (BOTH NE	W CONSTR	RUCTION AND ALTERATIONS).		
NT LOCATIONS (ALTERATIONS ONLY). R LOCATIONS (ALTERATIONS ONLY). THIS RAMP MAY BE USED ONLY IF THE 5 RAMPS CANNOT BE PLACED AT THE ENDS OF THE RADIUS. E CONSTRAINTS PREVENT THE CONSTRUCTION OF ANY OF THE TYPES LISTED, AND ONLY THEN CAN THE 12:1 MAX. SLOPE ON THE RAMP BE EXCEEDED TO DE ACCESS TO THE STREET LEVEL (ALTERATIONS ONLY). LOPE CAN BE STEEPENED TO A 10:1 MAX.FOR A MAX.LENGTH OF 5' OR A 8:1 MAX. MAX.LENGTH OF 2'. SLOPES STEEPER THAN 8:1 ARE NOT ALLOWED UNDER ANY MSTANCES.				
THE SELECTION OF THE TYPE OF WHEELCHAIR RAMP TO BE CONSTRUCTED ON THE AMOUNT OF RIGHT-OF-WAY AVAILABLE, AND ON THE HER SITE CONSTRAINTS (UTILITIES, BULLDINGS, ETC.). // LISTS THE ORDER IN WHICH THE RAMPS ARE TO BE CONSIDERED. IS DEFINED AS A PROJECT THAT CHANGES OR AFFECTS THE USE OF ATHWAY (OVERLAYS, SIGNALIZATION PROJECTS, ETC.) BUT DOES NOT RCHASE OF ADDITIONAL RIGHT-OF-WAY. ALL PROJECTS THAT REOUIRE OF ADDITIONAL RIGHT-OF-WAY WILL USUALLY BE CONSIDERED NEW OR THE PURPOSES OF THE CHART ABOVE.				
VISED TO NEW SIDEWALK POLICY VISED GEN. NOTES & ADDED NOTE		ARKANSAS STATE HIGHWAY COMMISSION		
V, DETECTABLE WARNING DEVICES D DETECTABLE WARNING DEVICES D.SLOPE TRANS. & REV. ISL. DIMS. VISED NOTES VISED TEXTURE DRAWN & REISSUED		WHEELCHAIR RAMPS NEW CONSTRUCTION		
JRAWN & REISSUED RRECTED DIMENSIONS DM8:ITOI2::IMAX.SLOPES JUSTED MAX. SLOPE	10-18-96 5-24-90 652-7-15-88	AND ALTERATIONS		
LUD."CONC. ISLD."IN PAY ITEM UED-P.H.D.	299-7-28-76 DATE FILM	STANDARD DRAWING WR-I		