



)	DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
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VC.					JOB	NO.	080663	1	20
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<u>DESIGN TRAFFIC DATA</u>	
DESIGN YEAR	1
2019 ADT200	00
2041 ADT250	00
DIRECTIONAL DISTRIBUTION 0.6	0
TRUCKS	
DESIGN SPEED	MPH







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ROADWAY STANDARD DRAWINGS

20 SPECIAL DETAILS

DRWG.NO.	TITLE	DATE
CG-1	CURBING DETAILS	11-29-07
DR-1	DETAILS FOR DRIVEWAYS & ISLANDS	11_07_19
FES-1	FLARED END SECTION	10-18-96
FES-2	FLARED END SECTION	10-18-96
FPC-9E	DETAILS OF DROP INLETS (TYPE C)	11-16-01
FPC-9M	DETAILS OF DROP INLET (TYPE MO)	08-22-02
PCC-1	CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING	02-27-14
PM-1	PAVEMENT MARKING DETAILS	02-27-20
SI-1	DETAILS OF SPECIAL ITEMS	10-25-18
TC-1	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11_07_19
TC-2	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	11_07_19
TC-3	STANDARD TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	02-27-20
TEC-1	TEMPORARY EROSION CONTROL DEVICES	11_16_17
WR-1	WHEELCHAIR RAMPS NEW CONSTRUCTION AND ALTERATIONS	11-10-05

- ENGINEER.



DENOTES FINISHED GRADE WHERE _ANS.

ES, POWER, TELEPHONE, AND INES TO BE MOVED OR LOWERED BY IVE OWNERS AS PER AGREEMENT WNERS.

NT OR APPLIANCE THAT INTERFERES OPOSED CONSTRUCTION AND WHICH PROPERTY OF UTILITY SERVICE NS SHALL BE MOVED BY THE ESS OTHERWISE PROVIDED.

TOR SHALL BE RESPONSIBLE FOR U.S. MAILBOXES WITHIN THE TS IN SUCH A MANNER THAT THE RECEIVE CONTINUED MAIL SERVICE. BE CONSIDERED INCLUDED IN THE R THE VARIOUS BID ITEMS.

5. ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.

ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED AS DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENDURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FENCE TO CONTROL LIVESTOCK IN AREAS WHERE PASTURES ARE SEVERED. WIRE FENCE MAY BE CONSTRUCTED INITIALLY, OR IN LIEU THEREOF, THE CONTRACTOR AT HIS OWN EXPENSE. MAY ELECT TO PROVIDE TEMPORARY FENCING SUITABLE TO CONTAIN LIVESTOCK.

8. THE SEQUENCE AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS IS A GENERAL OUTLINE FOR THE CONSTRUCTION OF THIS PROJECT, AND IN NO 5. WAY IS IT INTENDED TO COVER EVERY ITEM IN THE PROJECT. ITEMS NOT CRITICAL TO THE CONSTRUCTION SEQUENCE MAY BE CONSTRUCTED IN ANY STAGE AS APPROVED BY THE RESIDENT

9. ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM NO. 210 - UNCLASSIFIED EXCAVATION.

10. THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAWING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

11. THIS PROJECT IS COVERED UNDER A SECTION 404 NATIONWIDE 14 PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2014, FOR PERMIT REQUIREMENTS.

GENERAL EROSION CONTROL NOTES

- 1. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AND CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY PERMITTING AGENCY AND OWNER OR AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- 2. PERMIT FOR ANY CONSTRUCTION ACTIVITY MUST BE MAINTAINED ON SITE AT ALL TIMES.
- 3. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
- 4. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
- 5. ALL WASH WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- 6. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- 7. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- 8. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE
- 9. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 14 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- 10. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD. THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- 11. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 12. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- 13. CONTRACTOR SHALL DESIGNATE / IDENTIFY AREAS INSIDE THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
- 14. ALL BMP'S SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED BY A MINIMUM OF 80% GRASS COVERAGE.
- 15. ALL DEWATERING ACTIVITIES SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS. DISCHARGED WATER MUST BE PROPERLY TREATED BEFORE RELEASING FROM THE SITE.

I BMP MAINTENANCE

THE CONTRACTOR SHALL IMPLEMENT ALL MEASURES SHOWN ON THE EROSION CONTROL PLAN AND IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TO THE FULLEST EXTENT PRACTICAL. THE CONTRACTOR SHALL HAVE CHECKED ALL SEDIMENT AND EROSION CONTROL MEASURES BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS OR EVERY FOURTEEN (14) DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT EXCEEDING 0.25". ALL SITE BMPS SHALL BE MAINTAINED IN A FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION OF THE SITE HAS OCCURRED. ALL SITE BMPS SHALL BE REPAIRED AND / OR CLEANED IN ACCORDANCE WITH THE FOLLOWING:

- 1. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION ENTRANCE(S) IN A SUCH A CONDITION THAT WILL PREVENT MUD BEING TRACKED INTO ANY PUBLIC RIGHT OF WAY(S). THIS MAY REQUIRE PERIODIC TOP DRESSING OF ALL CONSTRUCTION ENTRANCE(S) AS NECESSARY.
- 2. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION. THIS MAY REQUIRE PERIODIC TOP DRESSING OF ALL PARKING AND STORAGE AREA(S) AS NECESSARY.
- 3. CONTRACTOR SHALL REPAIR ALL SILT FENCING TO THEIR ORIGINAL CONDITION IF DAMAGED; SEDIMENT SHALL BE REMOVED FROM ALONG THE FENCE WHEN SEDIMENT REACHES NO MORE THAN ONE-HALF THE HEIGHT OF THE SILT FENCE.
- 4. INLET BMPS SHALL BE REPAIRED AND/OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING. CONTRACTOR SHALL REPLACE IF THEY SHOW SIGNS OF DETERIORATION.
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. CONTRACTOR SHALL FERTILIZE AND RESEEDED THESE AREAS AS NECESSARY.
- 6. IF THE GRAVEL FOUND IN ANY SEDIMENT FILTER(S) BECOME CLOGGED WITH SEDIMENT, CONTRACTOR SHALL PULL THE GRAVEL AWAY, CLEAN THE GRAVEL, AND REPLACE IN THE SEDIMENT FILTER(S).
- 7. OUTFALL STRUCTURES IN SEDIMENT BASINS SHALL BE KEPT IN OPERATIONAL CONDITIONS AT ALL TIMES AND DURING ALL PHASES OF CONSTRUCTION. ANY SEDIMENT FOUND IN THE BASIN SHALL NOT EXCEED THE DEPTH OF THE CLEAN-OUT LEVEL (SITE SPECIFIC).
- 8. THE EMBANKMENT OF THE SEDIMENT BASIN(S) AND/OR TEMPORARY SEDIMENT TRAPS AND THEIR OUTFALL STRUCTURES SHALL BE CHECKED REGULARLY TO ENSURE THEY ARE STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED DUE TO EROSION OR CONSTRUCTION (SITE SPECIFIC).
- 9. ALL SEDIMENT FOUND IN THE TEMPORARY SEDIMENT TRAP SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS REACHED NO MORE THAN ONE-HALF THE DEPTH OF THE TEMPORARY SEDIMENT TRAP (SITE SPECIFIC).

SEQUENCE OF CONSTRUCTION

- INSTALL PERIMETER EROSION CONTROL MEASURES AND TEMPORARY CONSTRUCTION
- ENTRANCES/CONCRETE WASHOUT. 2. EXCAVATION AND EMBANKMENT TO FORM THE PAVEMENT OR GRADED AREAS.
- 3. INSTALL STORM SEWER (ADJUST EXISTING SEDIMENT BARRIERS AS NECESSARY TO MAINTAIN SEDIMENT CONTROL). 4. INSTALL UNDERGROUND UTILITIES (ADJUST EXISTING SEDIMENT BARRIERS AS NECESSARY TO
- MAINTAIN SEDIMENT CONTROL); ADDITIONAL SEDIMENT BARRIERS SHALL BE UTILIZED AS REQUIRED TO BOUND THE DOWN SLOPE SIDE OF UTILITY CONSTRUCTION AND SOIL STOCKPILES. 5. FINAL GRADING (SEDIMENT BARRIERS SHALL BE MAINTAINED DOWN SLOPE FROM DISTURBED SOIL
- DURING THIS OPERATION).
- INSTALL PAVING.
- COMPLETION OF ONSITE STABILIZATION. 8. REMOVE PERIMETER EROSION CONTROL MEASURES.

GENERAL GRADING/DRAINAGE NOTES

- PROCEEDING WITH CONSTRUCTION.
- ADDITIONAL COST TO THE OWNER.
- 4. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES ON ADJUSTING COST TO THE OWNER.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE DESIGN AND INDICATED ON THESE DRAWINGS.
- OR LESS.
- RETAINING WALL(S) SHALL BE CONSTRUCTED TO EXTEND A MINIMUM OF 6 WALL PLANS DIFFER FROM THIS.
- GENERAL NOTES FOR SEEDING MIX & SPECIFICATIONS).
- CONTROL PLAN AND CONSTRUCTION SCHEDULE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR IMPLEMENTING THE SWPPP
- BEFORE PLACING TOPSOIL PER OWNER / DEVELOPER, CITY, AND / OR DOT STANDARDS AND SPECIFICATIONS.
- STABILITY OF THE FILL.
- 15. ENSURE THAT FILL MATERIAL IS FREE OF BRUSH, RUBBISH, ROCKS, LOGS, CONSTRUCTING STABLE FILLS.
- COMPRESSIBLE MATERIALS INTO FILL SLOPES.
- 17. KEEP DIVERSIONS AND OTHER WATER CONVEYANCE MEASURES FREE OF
- 18. PERMANENTLY STABILIZE ALL GRADED AREAS AFTER FINAL GRADING IS
- CONTACT THE ENGINEER OF RECORD.
- RECORD.

- MEASURES HAVE BEEN INSTALLED.

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INFORMATION PERTAINING TO UNDER GROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD LOCATIONS WHEN POSSIBLE, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY DIGGING TEST PITS BY HAND AT ALL UTILITY CROSSINGS IN ADVANCE OF MACHINE TRENCHING. IF CLEARANCES ARE LESS THAN SPECIFIED ON THESE PLANS OR 18", WHICH EVER IS LESS, CONTACT THE ENGINEER AND THE OWNER / DEVELOPER PRIOR TO

2. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATION OR REMOVAL OF EXISTING UNDERGROUND UTILITIES SHOWN OR NOT SHOWN AT NO

3. ALL STRUCTURES LOCATED WITHIN STATE RIGHT-OF-WAY OR OTHERWISE NOTED ON THE THESE PLANS SHALL BE CONSTRUCTED PER STATE DOT STANDARDS. IF STRUCTURE(S) ARE NOT PROTOTYPICAL OR CONSTRUCTION CANNOT BE ACHIEVED, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO MCCLELLAND CONSULTING ENGINEERS, INC. FOR REVIEW AND APPROVAL.

EXISTING UTILITY LINE AS REQUIRED BY CUT AND FILL AT NO ADDITIONAL

IMPLEMENTATION OF SHEETING, SHORING, BRACING, AND SPECIAL EXCAVATION MEASURES REQUIRED TO MEET ALL OSHA, FEDERAL, STATE AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK

WHERE THE WORD 'PIPE' IS USED, CONTRACTOR SHALL HAVE THE OPTION OF BIDDING PIPE WITH A SMOOTH INTERIOR HAVING AN 'N' VALUE OF 0.013

7. ALL DRAINAGE STRUCTURES SHALL BE CAST-IN-PLACE (UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER OF RECORD).

INCHES ABOVE THE TOP OF FINISHED GRADE. CONTRACTOR SHALL REFER TO THE RETAINING WALL PLAN(S) FOR CONSTRUCTION AND DESIGN SPECIFICATIONS. CONTRACTOR SHALL NOTIFY THE ENGINEER IF RETAINING

9. ALL DISTURBED AREAS AND SLOPES SHALL BE GRADED SMOOTH AND (4") OF TOP SOIL APPLIED. THE AREA SHALL BE SEEDED AND WATERED UNTIL HARDY GRASS GROWTH HAS BEEN ESTABLISHED (SEE LANDSCAPING

10. STORM SEWER TRENCHING AND BEDDING SHALL BE INSTALLED PER PCC-1. 11. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL PRACTICES IN ACCORDANCE WITH THE EROSION

12. REMOVE GOOD TOPSOIL FROM AREAS TO BE GRADED AND FILLED, AND

PRESERVE IT FOR USE IN FINISHING THE GRADING OF ALL CRITICAL AREAS. 13. SCARIFY AREAS TO RECEIVE TOPSOIL TO A MINIMUM DEPTH OF 3 INCHES

14. CLEAR AND GRUB AREAS TO BE FILLED, REMOVE TREES, VEGETATION, ROOTS, DEBRIS, AND OTHER MATERIALS THAT WOULD AFFECT THE

STUMPS, BUILDING DEBRIS, AND OTHER MATERIALS INAPPROPRIATE FOR

16. DO NOT INCORPORATE FROZEN MATERIAL OR SOFT, MUCK, OR HIGHLY

SEDIMENT DURING ALL PHASES OF DEVELOPMENT.

COMPLETED ON EACH AREA OF THE GRADING PLAN. APPLY TEMPORARY STABILIZATION MEASURES ON ALL GRADED AREAS WHEN WORK IS TO BE INTERRUPTED OR DELAYED (SEE EROSION CONTROL PLAN(S)).

19. CONTRACTOR SHALL MATCH TOP OF PROPOSED DRAINAGE STRUCTURES WITH PROPOSED GRADES. IF A DISCREPANCY OCCURS BETWEEN PROPOSED GRADES AND PROPOSED STRUCTURE TOPS. THE GRADING SHALL GOVERN. IF THE DISCREPANCY IS MORE THAN 4 INCHES, THE CONTRACTOR SHALL

20. ALL UTILITIES, INCLUDING STORM SEWER, SHOWN WITHIN PUBLIC EASEMENTS OR RIGHT-OF-WAYS SHALL BE CONSTRUCTED TO THE GOVERNING AGENCY'S SPECIFICATIONS. ALL OTHER UTILITIES SHALL BE CONSTRUCTED TO THE CLIENT'S OR THE GOVERNING AGENCY'S SPECIFICATIONS. WHICHEVER IS MORE STRINGENT. IF THERE IS A QUESTION AS TO WHICH SPECIFICATIONS SHOULD APPLY, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF

21. ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND BE INSTALLED ACCORDINGLY.

22. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY LOCATING COMPANY (STATE ONE CALL SYSTEM) AND LOCATE ALL UTILITIES PRIOR TO GRADING START.

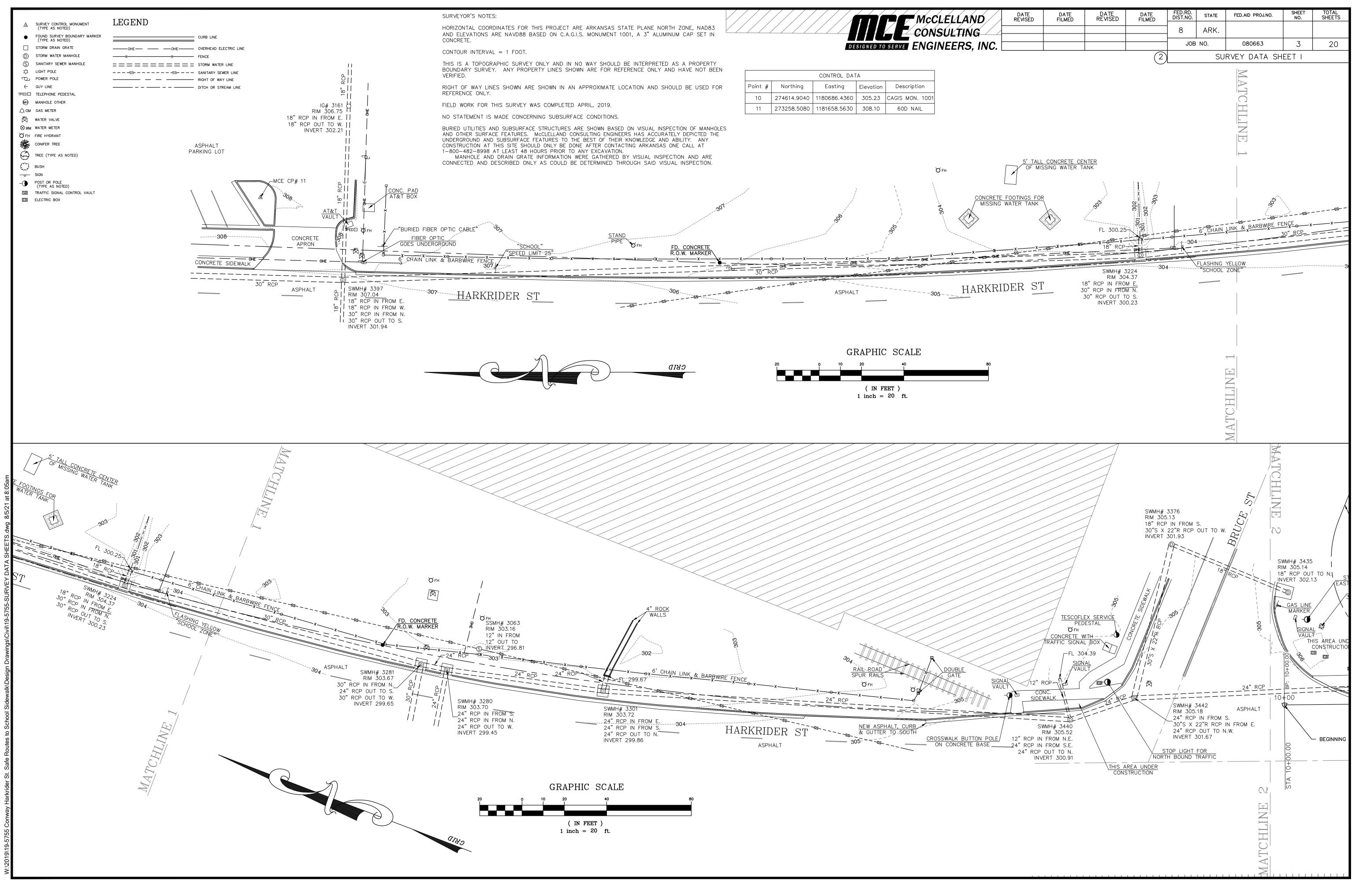
23. SITE GRADING SHALL NOT PROCEED UNTIL PERIMETER EROSION CONTROL

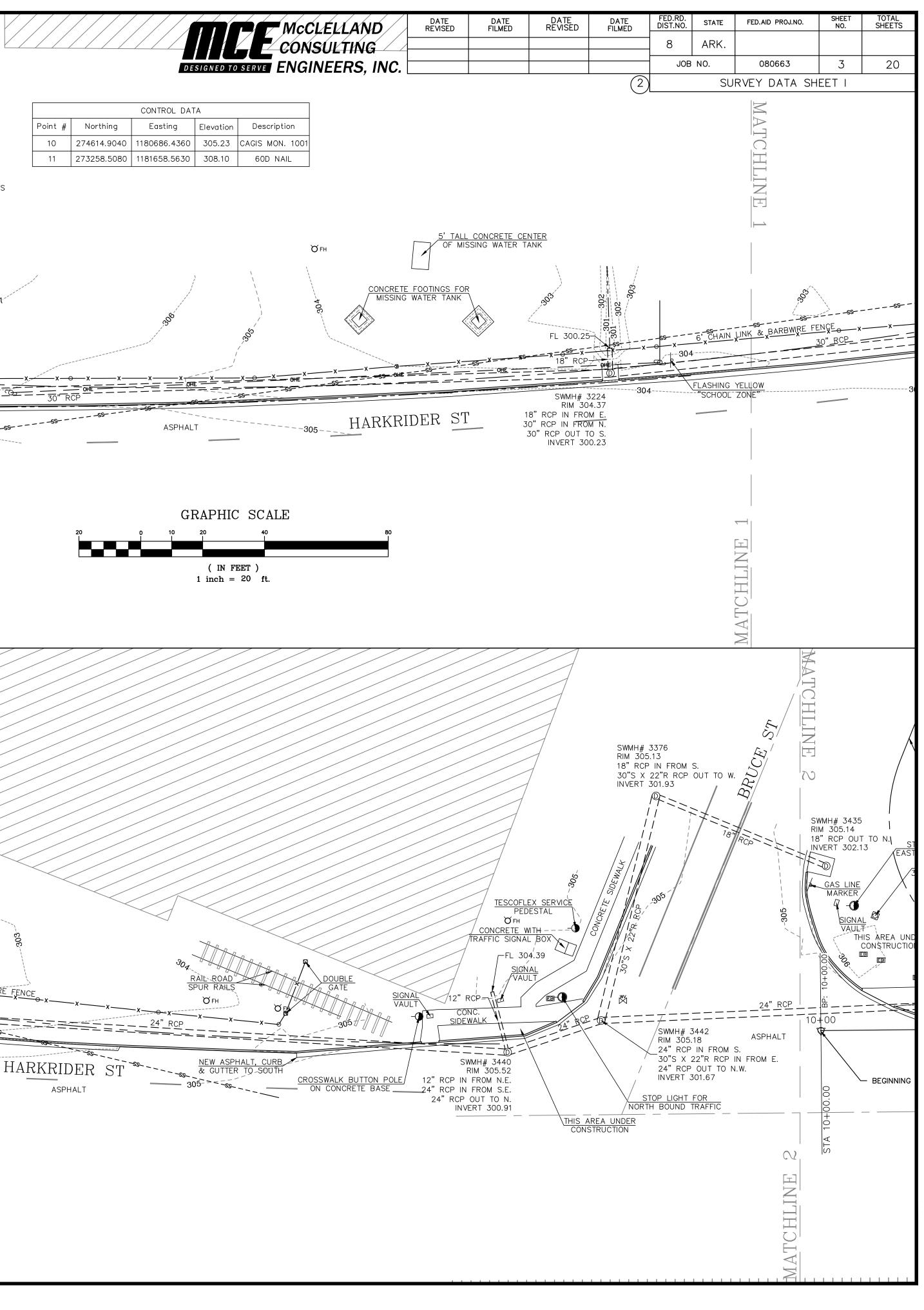
GENERAL DEMOLITION NOTES

- ALL AREAS WITHIN THE LIMITS OF DISTURBANCE TO BE DEMOLISHED AND REMOVED UNLESS OTHERWISE NOTED ON THIS PLAN.
- 2. THE CONTRACTOR IS REQUIRED TO NOTIFY THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO EXCAVATING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
- 3. THIS PLAN SHOULD BE USED IN CONJUNCTION WITH THE TOPOGRAPHICAL SURVEY FOR REFERENCE. THE LOCATION OF KNOWN SUBSURFACE STRUCTURES, PIPES, POWER, GAS, PHONE, ETC. ARE SHOWN ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION AND SATISFYING HIMSELF TO AS TO THE LOCATION OF THE AFOREMENTIONED ITEMS, SHOWN AND NOT SHOWN. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE. THE COST OF SUCH REPAIRS OR RELOCATIONS NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
- 4. CONTRACTOR SHALL DISPOSE OF ALL MATERIALS RESULTING FROM DEMOLITION IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS THAT GOVERN SUCH OPERATIONS.
- 5. ALL ABANDONED SERVICE LINES SHALL BE DISCONNECTED AND CAPPED PER UTILITY COMPANIES REQUIREMENTS. COORDINATE ALL DISCONNECTIONS WITH UTILITY COMPANIES.
- 6. CONTRACTOR IS TO BRING TO THE ATTENTION OF THE CIVIL ENGINEER ANY AREA OF DEMOLITION IN QUESTION BEFORE PROCEEDING WITH WORK.
- 7. CONTRACTOR TO REVIEW AND COORDINATE DEMOLITION LIMITS WITH PROPOSED CONSTRUCTION PLANS.
- 8. EXISTING CLEAN TOPSOIL TO BE STOCKPILED FOR FUTURE USE ON THIS SITE AND IS TO BE COORDINATED BY THE GENERAL CONTRACTOR.
- ALL EXISTING WATER, GAS AND / OR ELECTRICAL METERS AS NOTED TO BE REMOVED WITHIN THE PROJECT AREA ARE TO BE RETURNED TO THE APPROPRIATE AUTHORITY.

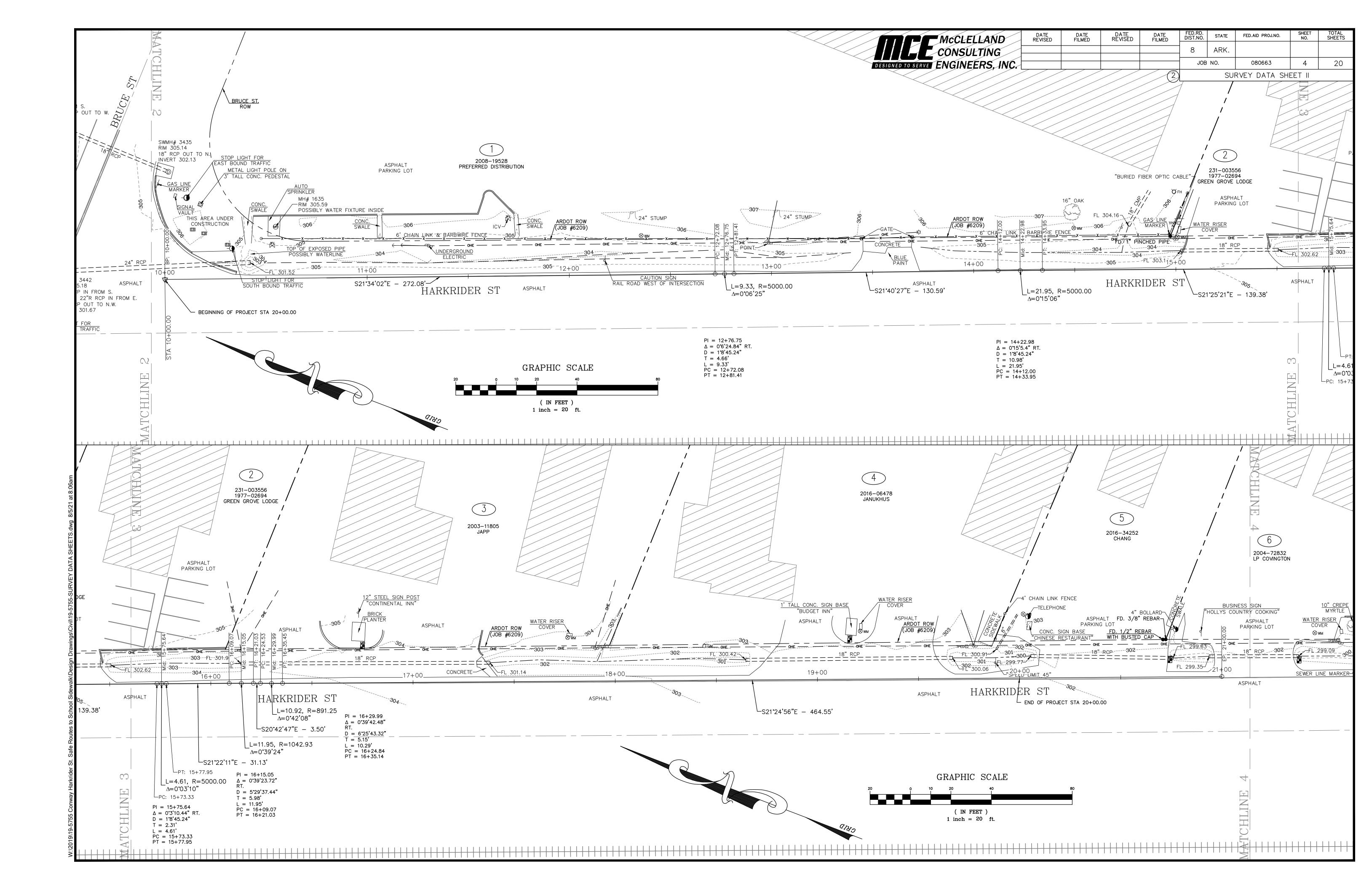
GENERAL SITE NOTES

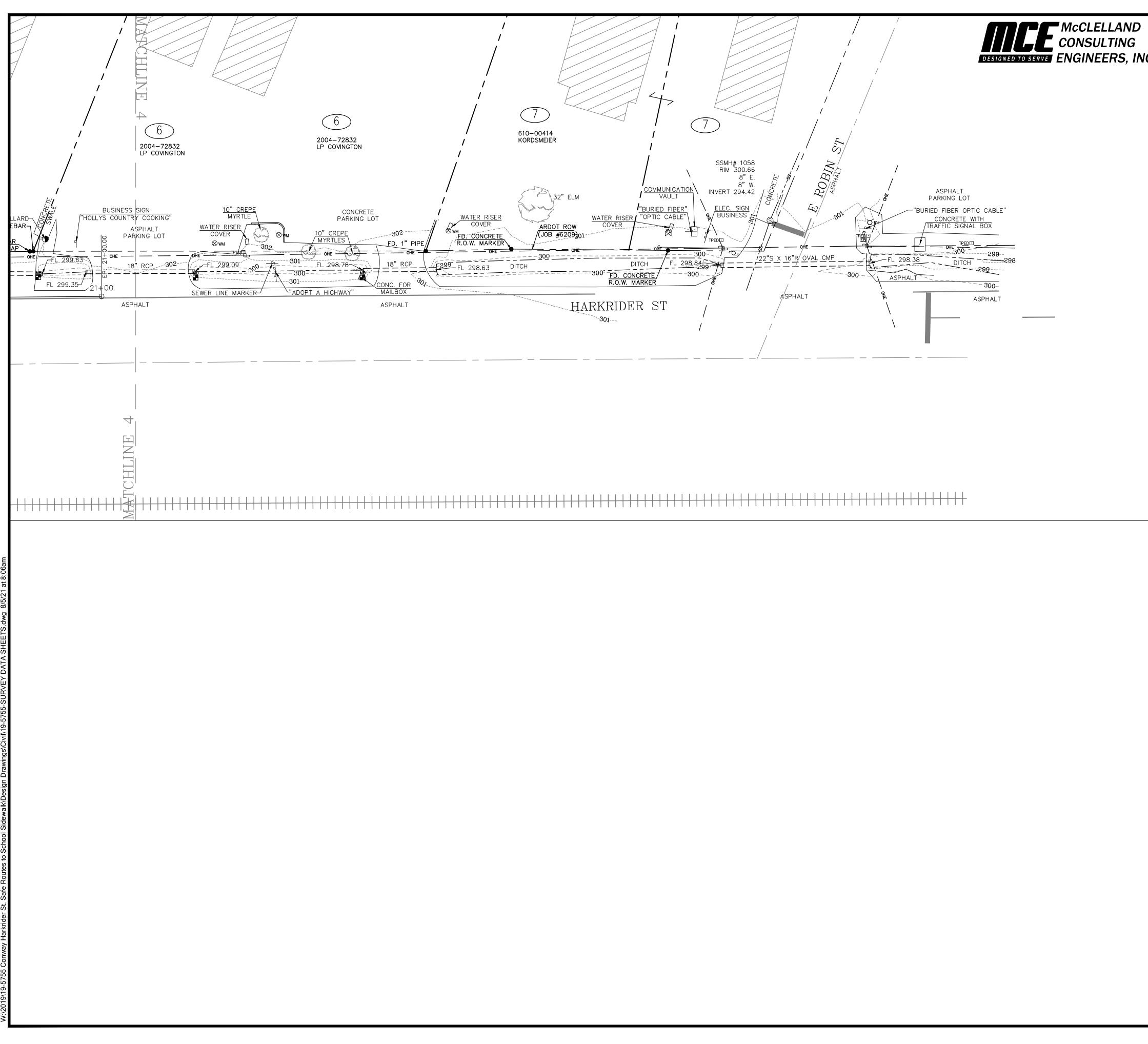
- 1. CONTRACTOR SHALL RETAIN A FULL SET OF LATEST APPROVED CONSTRUCTION PLANS ON SITE DURING CONSTRUCTION ACTIVITIES.
- 2. CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE SITE WORK SPECIFICATIONS PROVIDED BY McCLELLAND CONSULTING ENGINEERS, INC. OR AS SPECIFIED BY THE OWNER'S RESIDENT REPRESENTATIVE.
- 3. ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.
- 4. PUBLIC CONVENIENCE AND SAFETY: THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL INSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO HIGHWAYS IN THE CONSTRUCTION AREA IN AN ADEQUATE AND SATISFACTORY MANNER IN ACCORDANCE WITH THE ARDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 5. UNLESS OTHERWISE NOTED, ALL CURBING INDICATED SHALL BE 8.5" CONCRETE CURB AND GUTTER.
- 6. ALL DIMENSIONS, UNLESS OTHERWISE NOTED, ARE FROM THE FACE OF CURB, FACE OF BUILDING, OR CENTERLINE OF STRIPE.
- 7. CONTRACTOR SHALL REFER TO PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT DETAILS FOR PAVING DESIGN AND PROPER MATERIALS.
- 8. ALL RADII FOR CURBS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- 9. ALL RADII ON CURBS ARE 2'-0" UNLESS OTHERWISE NOTED.
- 10. GENERAL CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED IN PROJECT AND PAY ALL REQUIRED FEES AND COSTS
- 11. ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH THE OWNER'S STANDARD SITE SPECIFICATIONS.



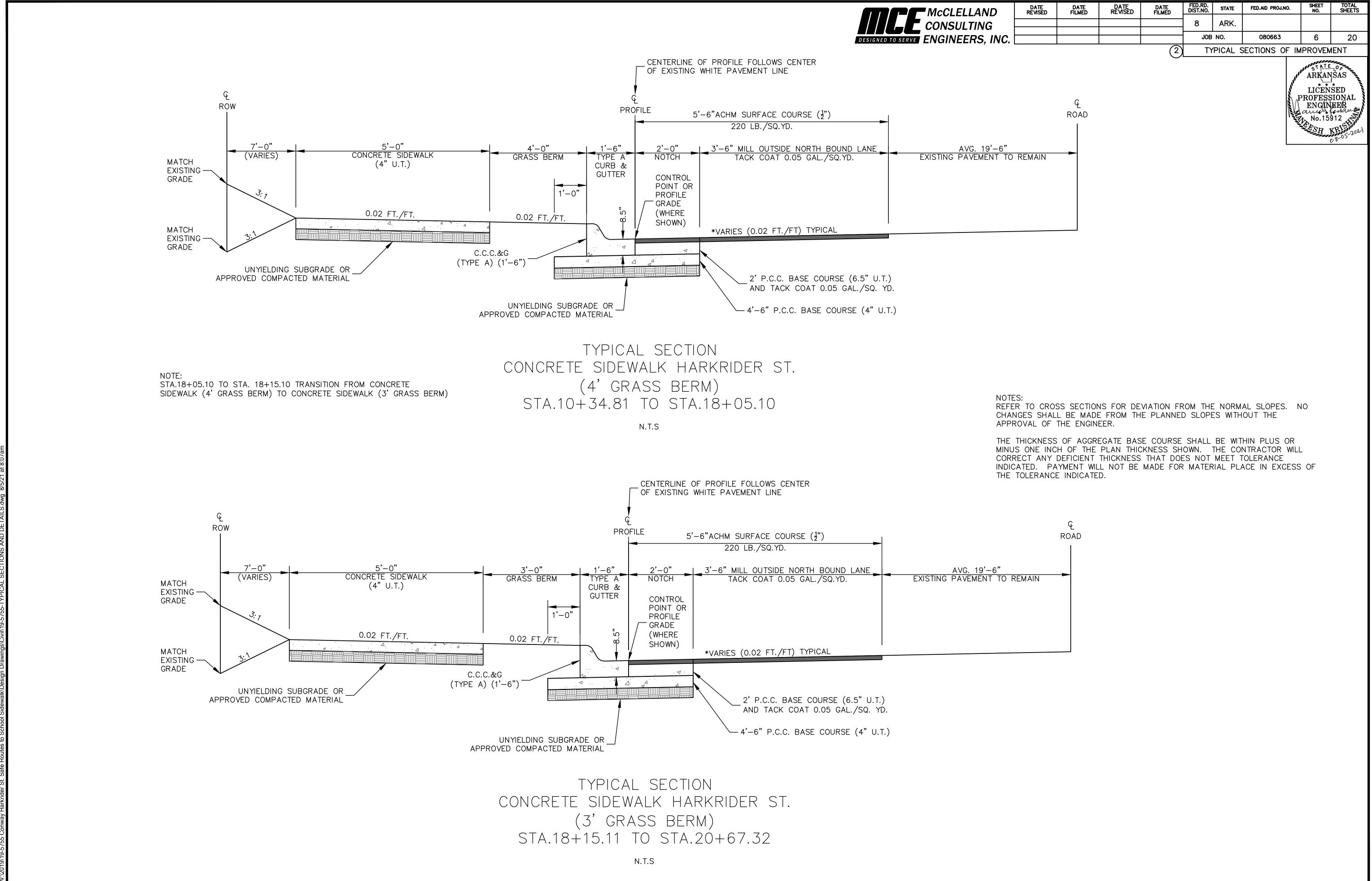


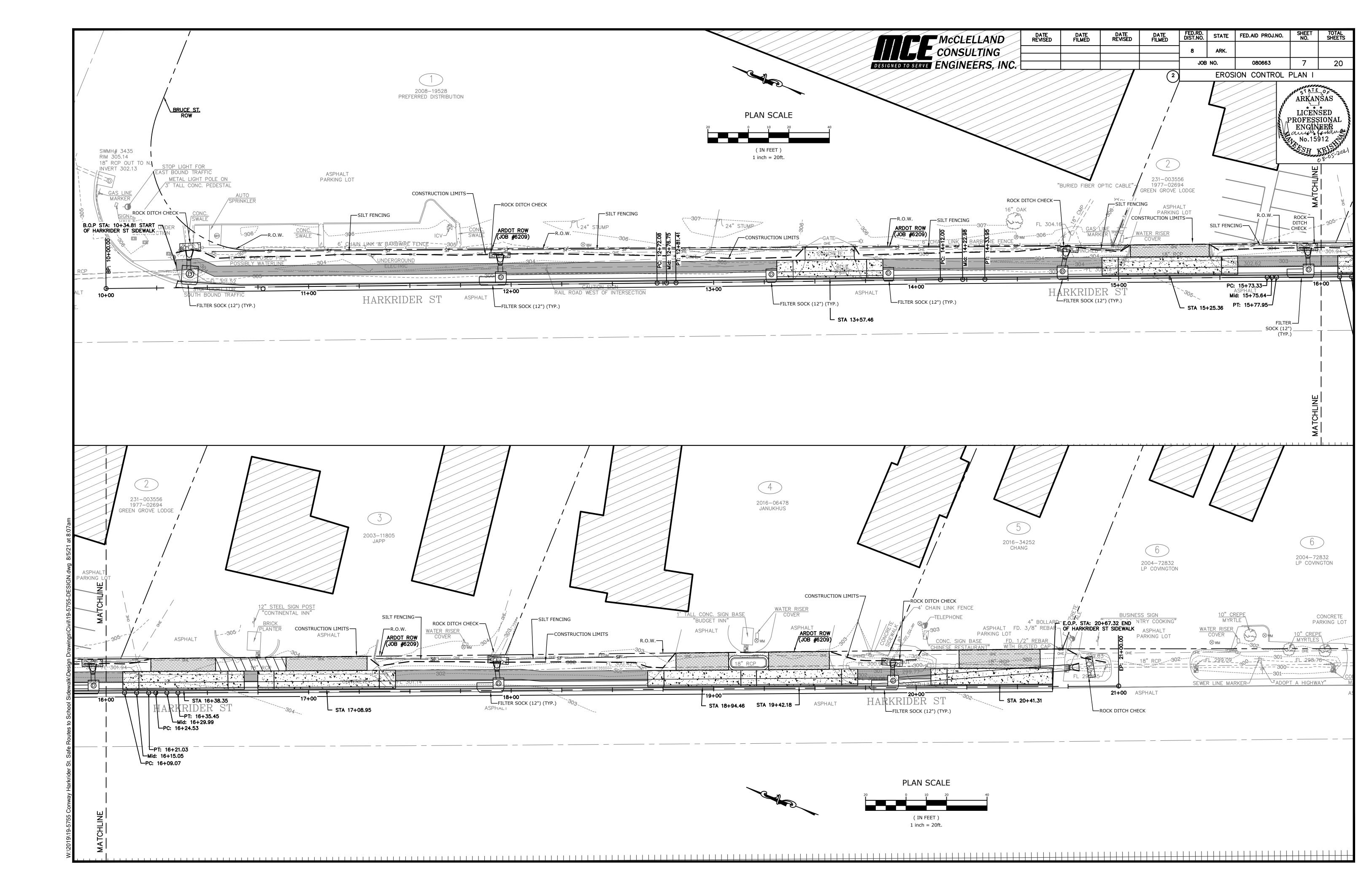
CONTROL DATA								
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11	273258.5080	1181658.5630	308.10	60D NAIL				





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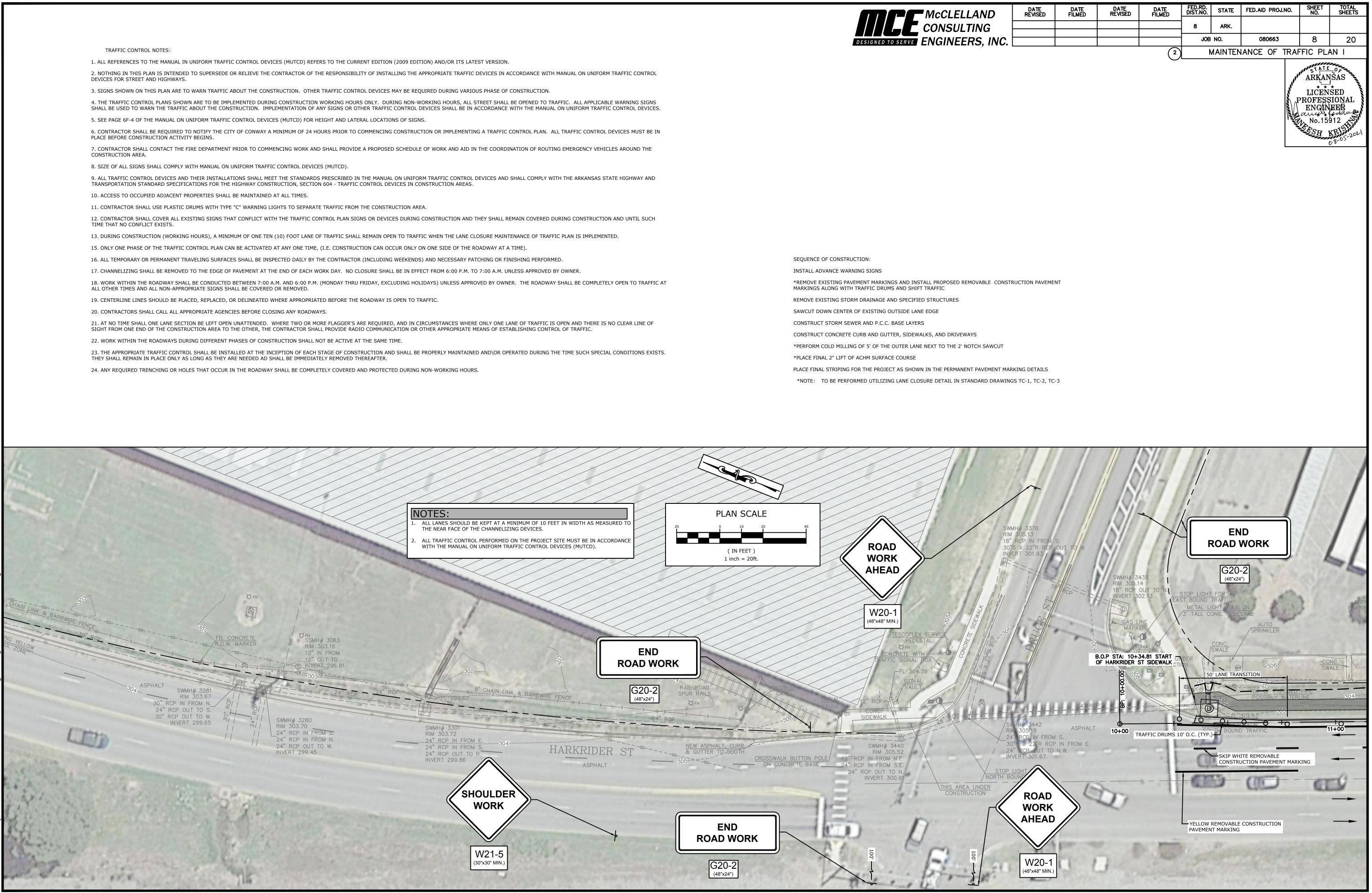


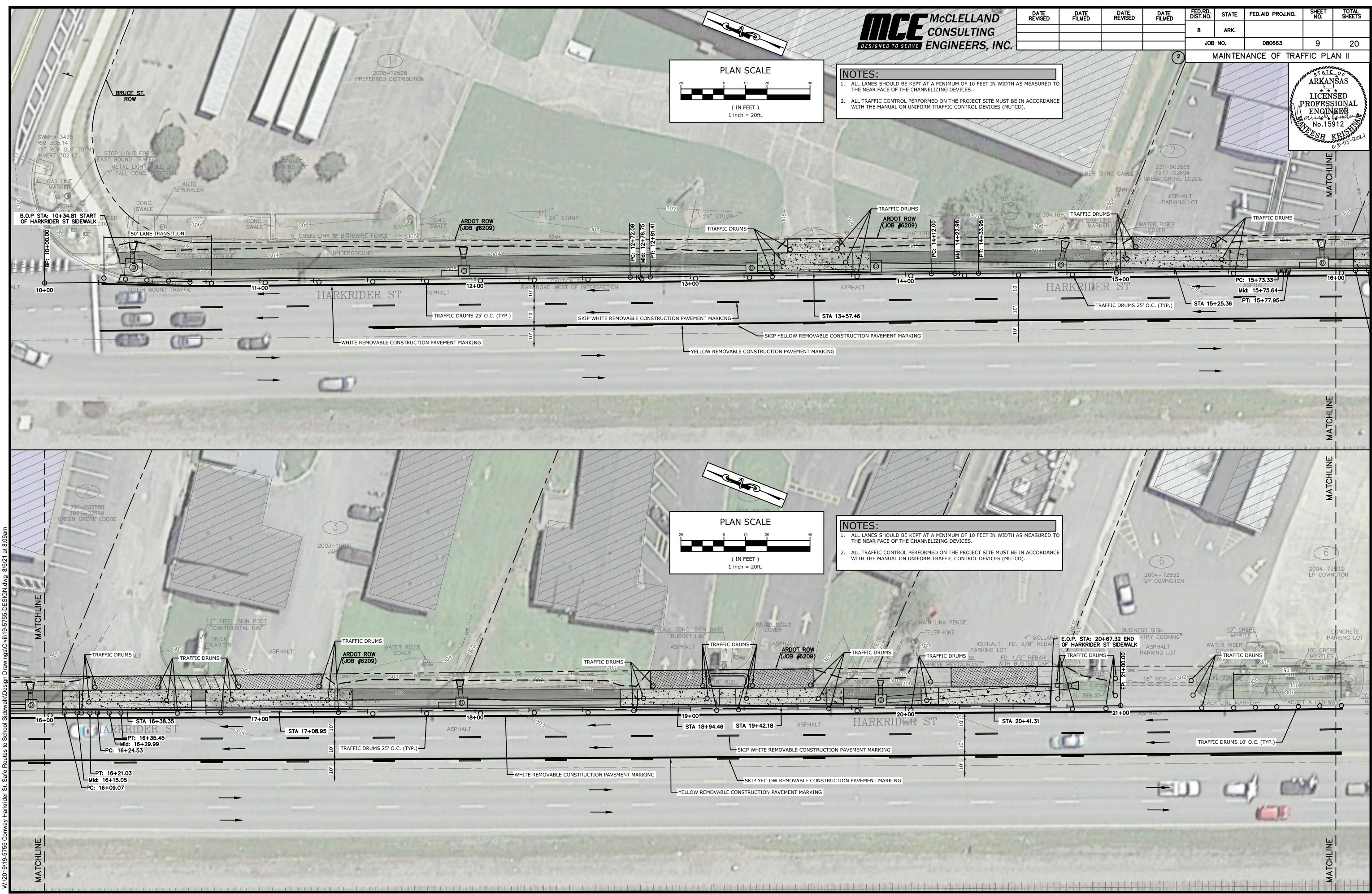
1. ALL REFERENCES TO THE MANUAL IN UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) REFERS TO THE CURRENT EDITION (2009 EDITION) AND/OR ITS LATEST VERSION. DEVICES FOR STREET AND HIGHWAYS.

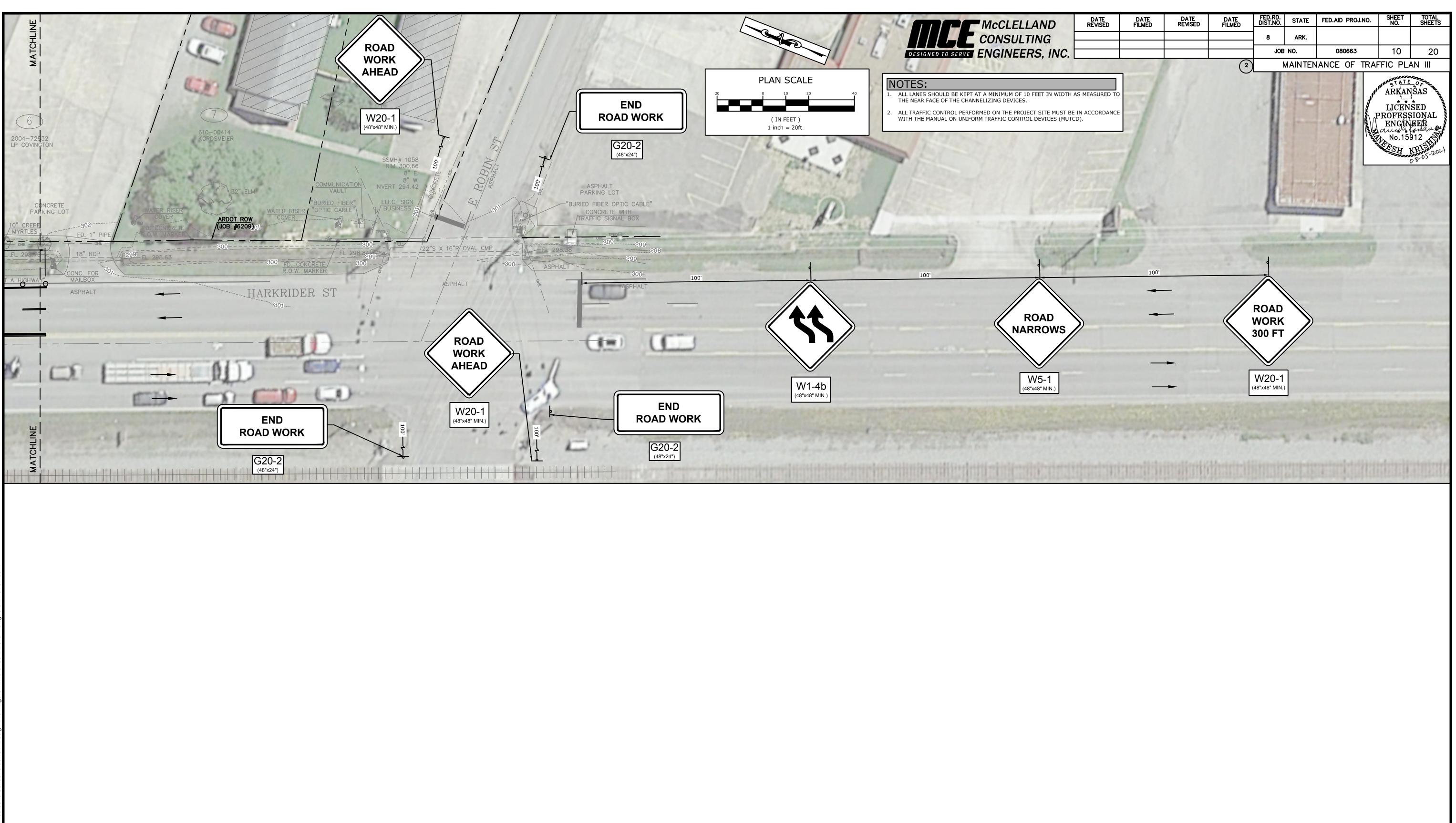
5. SEE PAGE 6F-4 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR HEIGHT AND LATERAL LOCATIONS OF SIGNS.

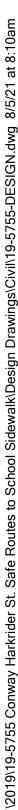
7. CONTRACTOR SHALL CONTACT THE FIRE DEPARTMENT PRIOR TO COMMENCING WORK AND SHALL PROVIDE A PROPOSED SCHEDULE OF WORK AND AID IN THE COORDINATION OF ROUTING EMERGENCY VEHICLES AROUND THE CONSTRUCTION AREA.

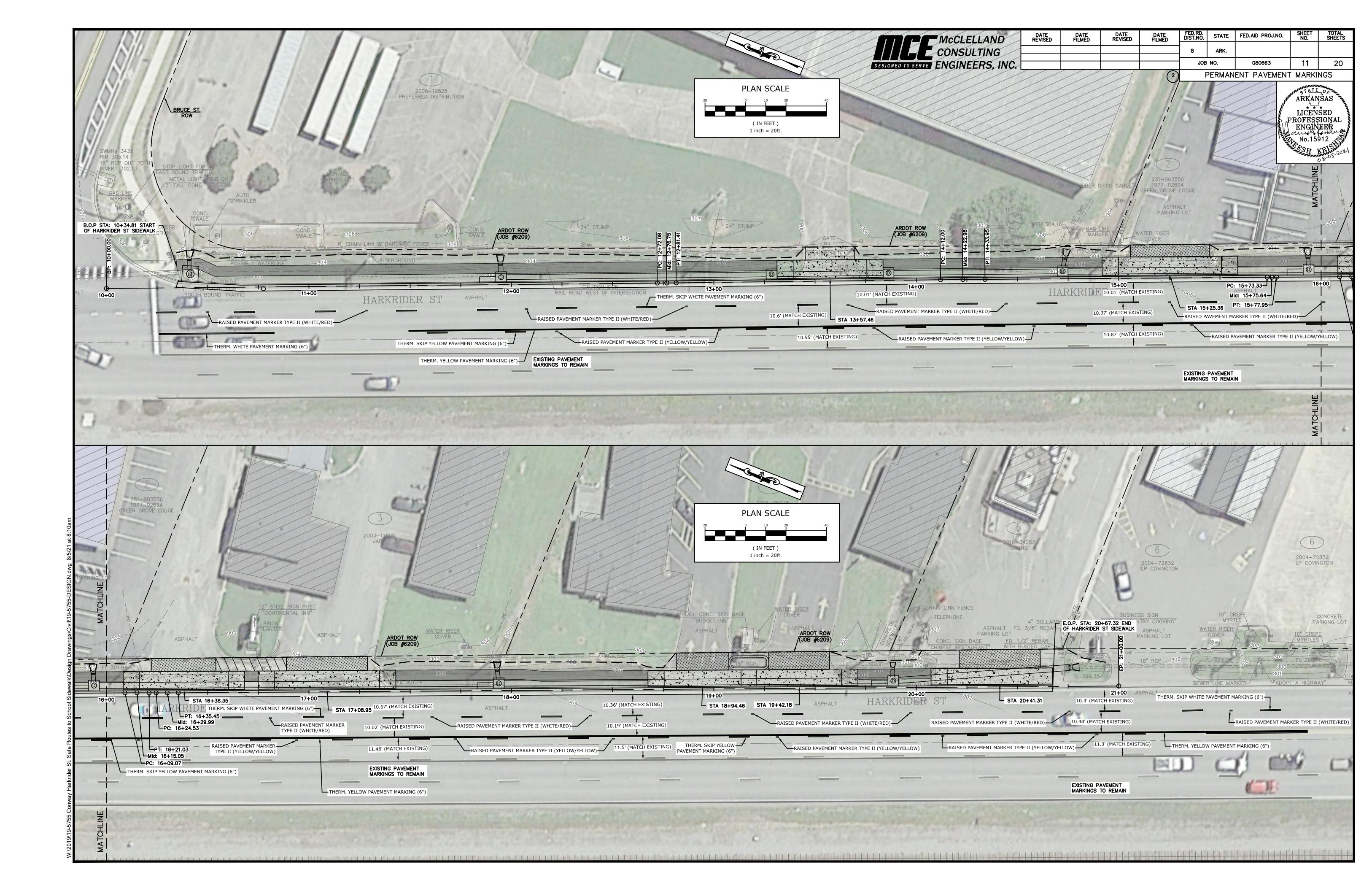
TIME THAT NO CONFLICT EXISTS.











	REMOVAL AND DISPOSAL OF ITEMS									
STATION	STATION	LOCATION	CURB AND GUTTER	CONCRETE DITCH PAVING	CONCRETE DRIVEWAYS	REN RELC				
			LIN. FT.	SQ. YD.	SQ. YD.					
10+41		LT. OF HARKRIDER ST.		8						
11+31		LT. OF HARKRIDER ST.								
12+17		LT. OF HARKRIDER ST.								
13+45	13+69	LT. OF HARKRIDER ST.			16					
15+05		LT. OF HARKRIDER ST.	10							
15+46		LT. OF HARKRIDER ST.	7							
17+33		LT. OF HARKRIDER ST.	5		5					
19+88		LT. OF HARKRIDER ST.								
TOTALS:			22	8	21					

NOTE: THE QUANTITY SHOWN ABOVE FOR THE REMOVAL AND DISPOSAL OF GUARDRAIL SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL GUARDRAIL TERMINALS AND TERMINAL ANCHOR POSTS.

REMOVAL AND DISPOSAL OF CULVERTS AND DROP INLETS

STATION	DESCRIPTION	PIPE CULVERTS
		EACH
15+26	48LF OF 18" RCP LT. OF HARKRIDER ST.	1
16+77	123LF OF 18" RCP LT. OF HARKRIDER ST.	1
19+16	102LF OF 18" RCP LT. OF HARKRIDER ST.	1
20+41	70LF OF 18" RCP LT. OF HARKRIDER ST.	1
TOTAL:		4

NOTE: QUANTITIES SHOWN ABOVE SHALL INCLUDE REMOVAL & DISPOSAL

OF ALL HEADWALLS AND FLARED END SECTIONS IF APPLICABLE.

	EARTHWORK							
			UNCLASSIFIED	COMPACTED				
STATION	STATION	LOCATION / DESCRIPTION	EXCAVATION	EMBANKMENT				
			CU. YD.					
ENTIRE	PROJECT	HARKRIDER ST.	302.12	366.08				
TOTALS:			302.12	366.08				

NOTE: EARTHWORK QUANTITIES SHOWN ABOVE SHALL BE PAID AS PLAN QUANTITY ONLY.

NOTE: REMOVAL AND DISPOSAL OF ASPHALT DRIVEWAYS IS INCLUDED IN UNCLASSIFIED EXCAVATION.

					LINUSI		NOL							
	STATION	LOCATION		PERMANENT EROSION CONTROL				TEMPORARY EROSION CONTROL						
STATION			SEEDING	LIME	IME MULCH COVER	WATER	SECOND SEEDING	SEEDING	TEMPORARY MULCH SEEDING COVER	WATER	ROCK DITCH CHECKS	SILT FENCE	SOCK REMOVAL	*SEDIMENT REMOVAL &
							APPLICATION				(E-6)	(E-11)	(E-13)	DISPOSAL
			ACRE	TON	ACRE	M.GAL.	ACRE	ACRE	ACRE	M.GAL.	CU.YD.	LIN. FT.	LIN. FT.	CU. YD.
ENTIRE	PROJECT	LT. OF HARKRIDER ST.	0.08	0.16	0.08	8.2	0.08	0.11	0.11	2.2	21	613	92	30
TOTALS:			0.08	0.16	0.08	8.2	0.08	0.11	0.11	2.2	21	613	92	30
BASIS OF ES	TIMATE:													
LIME														
WATER														
WATER	ATER													

TOTAL:

NOTE: THE TEMPORARY EROSION CONTROL DEVICES SHOWN ABOVE AND ON THE PLANS SHALL BE INSTALLED IN SUCH A SEQUENCE AS TO DETER EROSION AND SEDIMENTATION ON U.S. WATERWAYS AS EXPLAINED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT.

_	CONCRETE WALKS & HAND RAILING									
	STATION	STATION	LOCATION	LENGTH	CONCRET					
				LIN. FT.	SQ.YD.					
	10+35	13+31	LT. OF HARKRIDER ST.	296	164					
	13+84	14+91	LT. OF HARKRIDER ST.	107	59					
	15+59	16+08	LT. OF HARKRIDER ST.	49	27					
	16+68	16+75	LT. OF HARKRIDER ST.	7	4					
	17+43	18+67	LT. OF HARKRIDER ST.	124	69					
	19+71	20+07	LT. OF HARKRIDER ST.	36	20					

343



EMOVAL AND LOCATION OF SIGNS EACH 1

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CONCRETE COM

STATION	STATION	LOCATION	TYPE A (1' 6")	GRASS BERM SOLID SODDING	SOLID SODDING FOR GRASS PATCH	TOTAL SOLID SODDING	WATER
			LIN. FT.	SQ. YD.	SQ. YD.	SQ. YD.	M. GAL.
10+35	20+67	LT. OF HARKRIDER ST.	1032	276.15	25.90	302.05	3.81
TOTAL:			1032			302.05	3.81
BASIS OF E	STIMATE:						
WATER			ODDING				

		CURB	CONCRETE	TYPE C (1' 6")	AGGREGATE BASE
STATION	LOCATION	FACE	ISLAND		COURSE (CLASS 7)
		TYPE	SQ.YD.	LIN.FT.	TON
19+17	42 LF OF CURB LT. OF HARKRIDER ST.	TYPE C	7	42	4.07
TOTAL:			7	42	4

	MAILBOXES	MAILBOX SUPPORTS				
LOCATION	WAILBUXES	(SINGLE)				
	EACH	EACH				
ENTIRE PROJECT	3	3				
TOTALS:	3	3				

EROSION CONTROL

			REINFORCED CONCRETE PIPE			FLARED END SECTIONS FOR R.C. PIPE CULVERTS			DROP I	NLET	S	
STATION	DESCRIPTION		(CLASS III)		FOR	R.C. PIPE	CULVERIS	TY	ΈE	E	(Т.	STD. DWG. NOS.
		18"	22"X14"	29"X18"	18"	22"X14"	29"X18"	С	MO	4'	8'	
			LIN. F	Γ.		Ē	ACH		EA	СН		
10+41	CONSTRUCT DROP INLET ON LT.	4			1			1				FPC-9E, PCC-1, FES-1, FES-2
11+95	CONSTRUCT DROP INLET ON LT.		134			1			1		1	FPC-9M, PCC-1, FES-1, FES-2
13+29	CONSTRUCT DROP INLET ON LT.		54						1			FPC-9M, PCC-1
13+86	CONSTRUCT DROP INLET ON LT.		82						1			FPC-9M, PCC-1
14+72	CONSTRUCT DROP INLET ON LT.	4		118	1				1			FPC-9M, PCC-1, FES-1, FES-2
15+94	CONSTRUCT DROP INLET ON LT.	4		196	1				1		1	FPC-9M, PCC-1, FES-1, FES-2
17+94	CONSTRUCT DROP INLET ON LT.	4		191	1				1		1	FPC-9M, PCC-1, FES-1, FES-2
19+89	CONSTRUCT DROP INLET ON LT.	4		<mark>86</mark>	1		1		1		1	FPC-9M, PCC-1, FES-1, FES-2
TOTALS:		20	270	591	5	1	1	1	7		4	

BASIS OF ESTIMATE: NOTE: FOR R.C. PIPE CULVERT INSTALLATIONS USE TYPE 3 BEDDING UNLESS OTHERWISE SPECIFIED.

NOTE: FOR C.M. PIPE CULVERT INSTALLATIONS USE TYPE 2 BEDDING UNLESS OTHERWISE SPECIFIED.

DATE REVISED DATE FILMED DATE REVISED DATE FILMED DATE FILMED DATE DIST.NO. STATE FED.AID PROJ.NO. SHEET TOTAL SHEETS NC. Image: State s											
NC. JOB NO. OBOGEG3 12 20 QUANTITY SHEETS I STATE OF ARKANSAS LICENSED PROFESSIONAL ENCIVEER No.15912 SH KUSSION No.15912 OBOSICOL OBOSICOL DESCOL		DATE REVISE	DATE D FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.	NO. 5	SHEET NO.	TOTAL SHEETS
QUANTITY SHEETS I QUANTITY SHEETS I ARKANSAS LICENSED PROFESSIONAL ENGINEER No.15912 No.15912 No.15912 No.15912 No.15912 No.15912 No.15912						8	ARK.				
MBINATION CURB AND GUTTER	NC.					JOB	NO.	080663		12	20
MBINATION CURB AND GUTTER	_				2		Q	UANTITY SH	IEETS	I	
	MBIN	ATION	CURB AN	<u>D GUTTER</u>						ICEN DFESS NGIN No.15	SED SIONAL EER 912

CONCRETE ISLAND

MAILBOXES

STRUCTURES

SELECTED PIPE BEDDING

LOCATION	SELECTED PIPE BEDDING
	CU.YD.
ENTIRE PROJECT TO BE USED IF	
AND WHERE DIRECTED BY THE	80
ENGINEER	
TOTAL:	80
NOTE: QUANTITY ESTIMATED.	

SEE SECTION 104.03 OF THE STD. SPECS.

BASE AND SURFACING

					ТАСК	COAT			ACHMSU	IRFACE COUI	RSE (1/2")	
STATION	STATION	LOCATION	LENGTH		GAL. PER SG	(. YD.)	TOTAL	AVG. WID.		POUND /	PG 70-22	TOTAL
				TOTAL WID.	SQ.YD.	GALLON	GALLONS	AVO. WID.	SQ.YD.	SQ.YD.	1070-22	PG 70-22
			FEET	FEET	30.10.	GALLON	GALLONS	FEET		30.10.	TON	TON
MAIN	LANES											
10+34.81	20+67.32	LT. OF HARKRIDER ST.	1032.51	3.50	401.53	20.08	20.08	5.50	630.98	220.00	69.41	69.41
TOTALS:	•	•			401.53	20.08	20.08		630.98		69.41	69.41

BASIS OF ESTIMATE:

MAXIMUM NUMBER OF GYRATIONS = 160 FOR PG 70-22

TACK COAT QUANTITIES WERE CALCULATED USING THE EMULSIFIED ASPHALT RATES. REFER TO SS-400-1 FOR THE RESIDUAL ASPHALT APPLICATION RATES.

		CO	NCRETE E	BASE			
			LENGTH	PORTLAND CEMEN	T CONCRETE BASE	PORTLAND CEMEN	IT CONCRETE BASE
STATION	STATION	LOCATION	LENGTH	AVG. WID.	4" U.T.	AVG. WID.	6.5" U.T.
			FEET	FEET	SQ. YD.	FEET	SQ. YD.
10+34.81	20+67.32	LT. OF HARKRIDER ST.	1032.51	4.50	516.26	2.00	229.45
TOTALS:					516.26		229.45

				DRIVEW A	YS & TUR	NOUTS				
STATION	SIDE	LOCATION	WIDTH	**MODIFIED CURB		PORTLAND CEMENT CONCRETE DRIVEWAY	ACHM SURFACE COURSE (1/2") 220 LBS. PER SQ. YD. (PG 70-22)		AGGREGATE BASE COURSE (CLASS 7)	STANDARD DRAWINGS
			FEET	STATION	STATION	SQ. YD.	SQ. YD.	TON	TON	
13+57	LT	HARKRIDER ST.	24	13+31	13+83	69.60				DR-1
15+25	LT	HARKRIDER ST.	39	14+92	15+59	66.95	25.89	2.85	10.57	DR-1
16+38	LT	HARKRIDER ST.	32	16+08	16+68	59.93	23.00	2.53	9.39	DR-1
17+09	LT	HARKRIDER ST.	40	16+75	17+43	68.00	30.48	3.35	12.45	DR-1
18+94	LT	HARKRIDER ST.	26	18+67	19+21	44.22	24.85	2.73	10.15	DR-1
19+42	LT	HARKRIDER ST.	30	19+13	19+71	40.85	29.32	3.23	11.97	DR-1
20+41	LT	HARKRIDER ST.	40	20+07	20+75	53.34	40.88	4.50	16.69	DR-1
TOTALS:						402.89	174.42	19.19	71.22	

TOTALS: BASIS OF ESTIMATE:

THE CONTRACTOR, WITH THE APPROVAL OF THE ENGINEER, WILL BE ALLOWED TO SUBSTITUTE SIDE STREET CONSTRUCTION AT NO ADDITIONAL COST TO THE DEPARTMENT.

ACHM SURFACE COURSE (1/2").....94.5% MIN. AGGR... MAXIMUM NUMBER OF GYRATIONS = 160 FOR PG 70-22

* QUANTITY ESTIMATED

SEE SECTION 104.03 OF THE STD. SPECS.

TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

** FOR INFORMATION ONLY

	C	COLD MILLING ASPHALT PA	/EMENT	
STATION	STATION	LOCATION	AVG. WIDTH	COLD MILLING ASPHALT PAVEMENT
			FEET	SQ. YD.
10+34.81	20+41.31	LT. OF HARKRIDER ST.	5.00	559.17
TOTAL:				559.17

NOTE: AVERAGE MILLING DEPTH 2".

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SIGN NUMBER	DESCRIPTION	SIGN SIZE	ENTIRE PROJECT	MAXIMUM NUMBER REQUIRED	TOTAL SIGNS REQUIRED		TRAFFIC DRUMS	
			EACH		NO.	SQ. FT.		
W1-4B	DOUBLE LANE SHIFT	48"x48"	1	1	1	16.0		
W5-1	ROAD NARROWS	48"x48"	1	1	1	16.0		
W20-1	ROAD WORK 300 FT.	48"x48"	1	1	1	16.0		
W20-1	ROAD WORK AHEAD	48"x48"	4	4	4	64.0		
G20-2	END ROAD WORK	48"x24"	6	6	6	48.0		
W21-5A	SHOULDER WORK	30"x30"	1	1	1	6.3		
	TRAFFIC DRUMS		82	82			82	
TOTALS:								

NOTE: THE QUANTITY OF TRAFFIC DRUMS PROVIDED IS FOR ONE SIDE OF THE ROADWAY FOR THE FULL LENGTH OF THE JOB. HOWEVER, THE INSTALLATION OF TRAFFIC DRUMS SHALL NEVER EXCEED THE ACTUAL WORK AREA BY MORE THAN 1/4 MILE, UNLESS APPROVED BY THE ENGINEER.

CONSTRUCTION PAVEMENT MARKINGS AND PERMANENT PAVEMENT MARKINGS

DESCRIPTION	ENTIRE PROJECT	REMOVAL OF PERMANENT PAVEMENT	REMOVABLE CONSTRUCTION PAVEMENT	RAISED PAVEI	THERMOPLASTIC PAVEMENT MARKING		
		MARKINGS	MARKINGS	TYPE II	TYPE II	6"	
				(WHITE/RED)	(YELLOW/YELLOW)	WHITE	YELLOW
	LIN. FT EACH	LIN. FT.		E/			
REMOVAL OF PERMANENT PAVEMENT MARKINGS	2652	2652					
REMOVABLE CONSTRUCTION PAVEMENT MARKINGS	2896		2896				
RAISED PAVEMENT MARKERS TYPE II (WHITE/RED)	15			15			
RAISED PAVEMENT MARKERS TYPE II (YELLOW/YELLOW)	12				12		
THERMOPLASTIC PAVEMENT MARKING WHITE (6")	357					357	
THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	1344						1344
TOTALS:		2652	2896	15	12	357	1344

NOTE: THIS IS A HIGH TRAFFIC VOLUME ROAD AS DEFINED IN SECTION 604.03, STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

NOTE: THE PROJECT MUST BE MARKED FOR PASSING/NO PASSING ZONES PRIOR TO THE PLACEMENT OF ANY FINAL STRIPING. CONTACT THE MAINTENANCE DIVISION AFTER THE FINAL LIFT OF SURFACE COURSE HAS BEEN PLACED TO SCHEDULE THE ZONING OF THE PROJECT.

NOTE: NO PERMANENT PAVEMENT MARKINGS SHALL BE PLACED UNTIL A MINIMUM OF 3 DAYS AFTER ALL MAIN LANE PAVING HAS BEEN COMPLETED. IN ADDITION, NO PERMANENT PAVEMENT MARKINGS SHALL BE PLACED DURING THE TIME PERIOD FROM DECEMBER 21 TO MARCH 15, INCLUSIVE.

ADVANCE WARNING SIGNS AND DEVICES

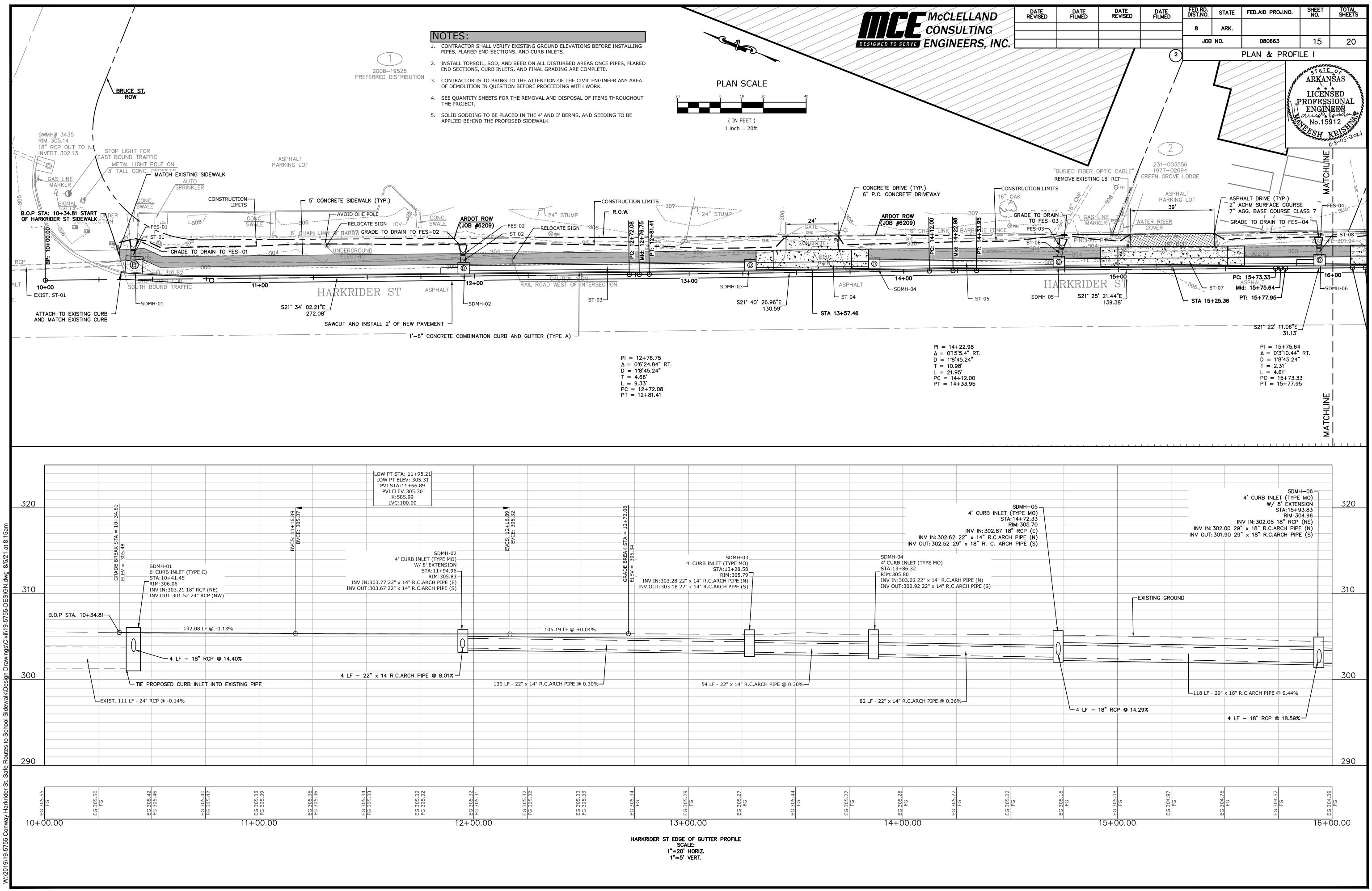
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					8	ARK.			
NC.					JOB	NO.	080663	13	20
				(2)		QU	ANTITY SHEE	TS II	
								ARKAN LICEN PROFESS ENGIN No.15	SED

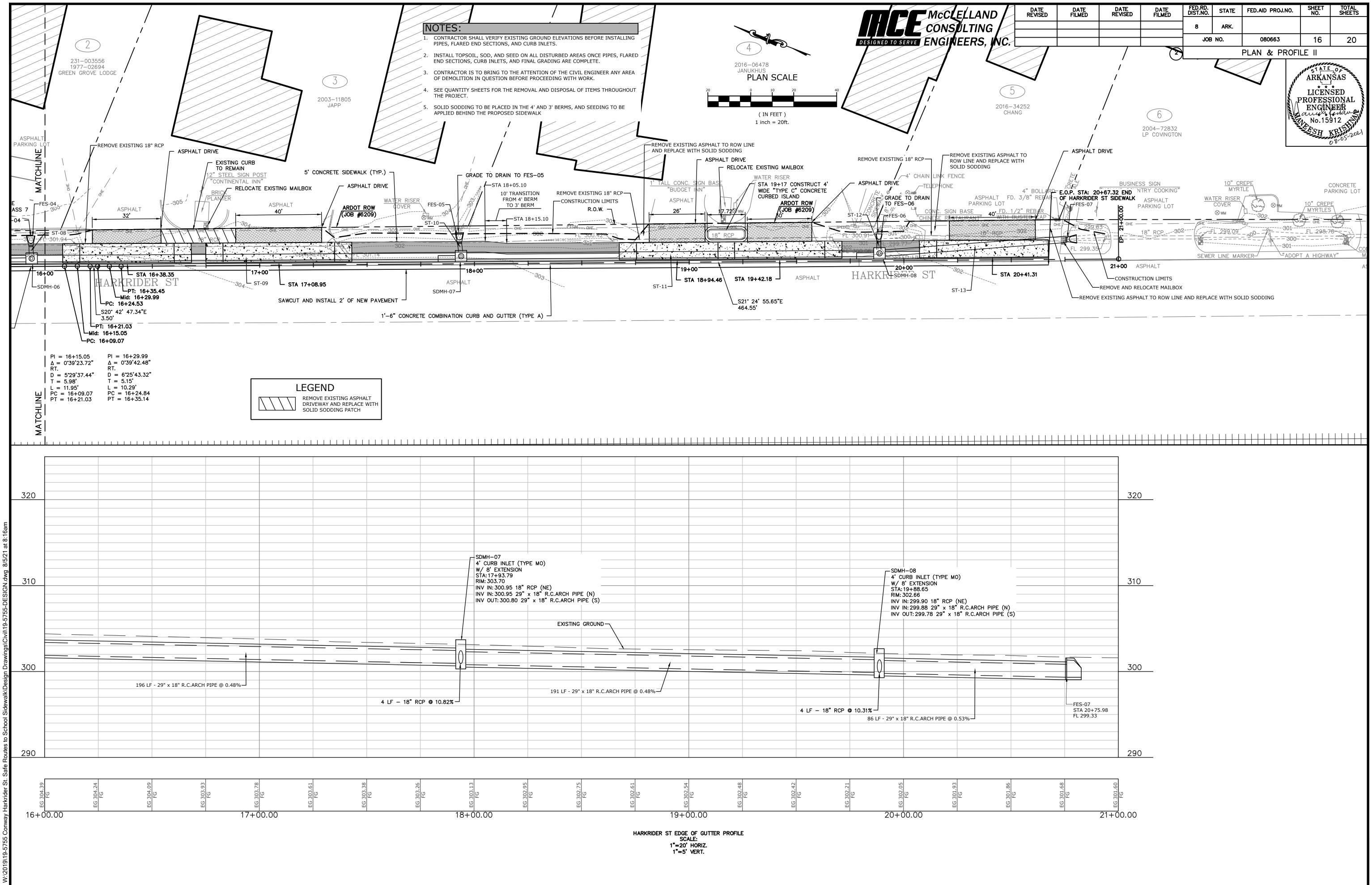
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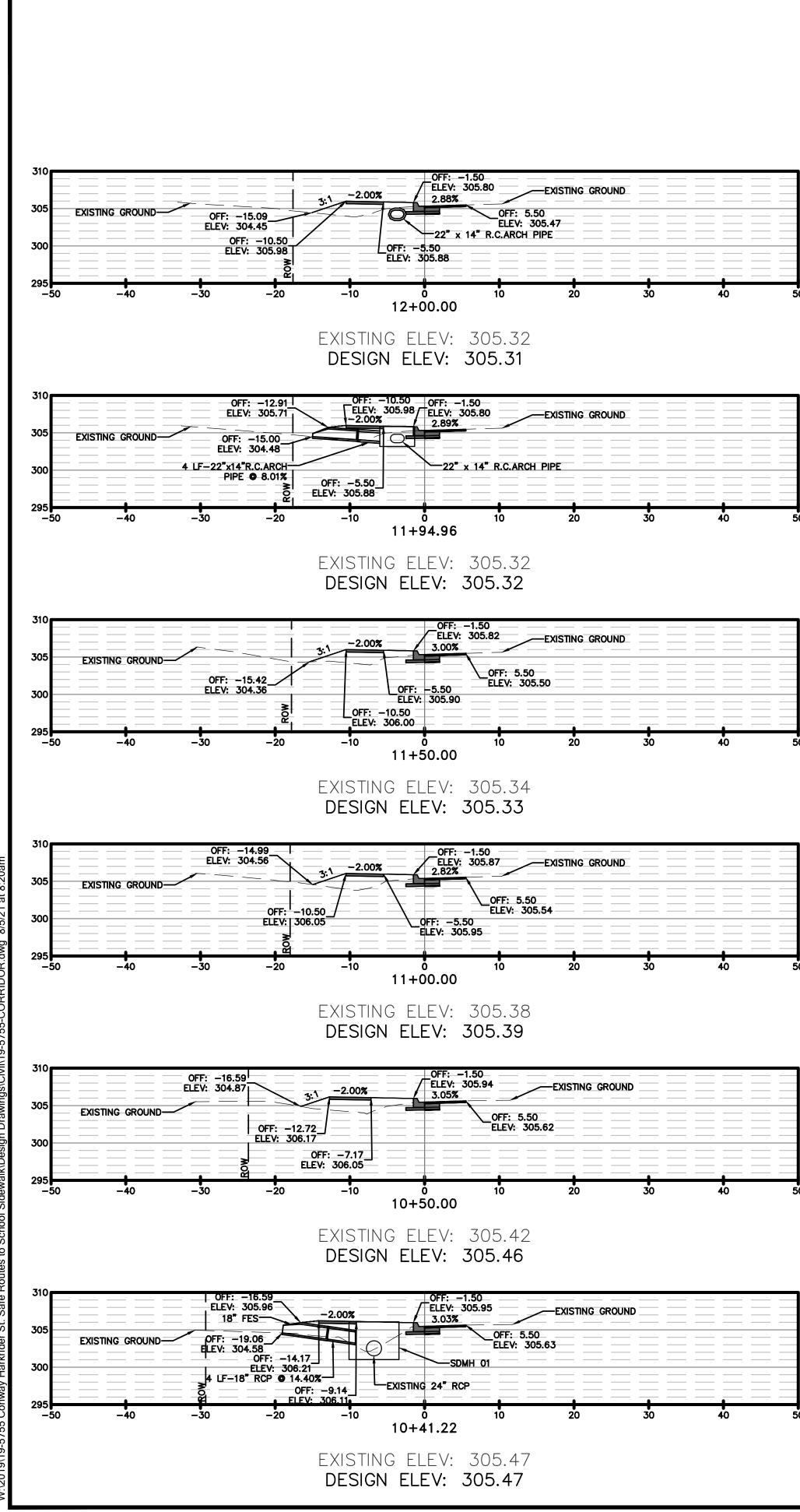
				DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO. STA	PROJ.NO. SH	EET TOTAL O. SHEETS
		TO SERVE ENGI	SULTING					8 AR JOB NO.	 0663 1	4 20
	DESIGNED	TO SERVE ENGI	NEERS, INC.				(:		OF QUANTITI	
									Magazar AF	ATE CENSED CENSED FESSIONAL IGINEER 0.15912
	SUMMARY OF QUANTITIES									08-05-2021
ITEM NUMBER	ITEM	QUANTITY	UNIT							
202 202	REMOVAL AND DISPOSAL OF CURB AND GUTTER REMOVAL AND DISPOSAL OF CONCRETE DRIVEWAYS	22 21	LIN. FT. SQ. YD.							
202	REMOVAL AND DISPOSAL OF PIPE CULVERTS	4	EACH							
202 202	REMOVAL AND DISPOSAL OF DITCH PAVING REMOVAL AND RELOCATION OF SIGN	8	SQ. YD. EACH							
210	UNCLASSIFIED EXCAVATION	302	CU. YD.							
210		366	CU. YD.							
SS & 303 309	AGGREGATE BASE COURSE (CLASS 7) PORTLAND CEMENT CONCRETE BASE (4" UNIFORM THICKNESS)	75 516	TON SQ. YD.							
309	PORTLAND CEMENT CONCRETE BASE (6 1/2" UNIFORM THICKNESS)	230	SQ. YD.							
	TACK COAT MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	20 84	GAL. TON							
SP, SS, & 407	ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (1/2")	5	TON							
	COLD MILLING ASPHALT PAVEMENT PORTLAND CEMENT CONCRETE DRIVEWAY	559 403	SQ. YD. SQ. YD.							
601	MOBILIZATION	1.00	LUMP SUM							
603 SS & 604	MAINTENANCE OF TRAFFIC SIGNS	1.00 167	LUMP SUM							
SS & 604 SS & 604	TRAFFIC DRUMS	82	SQ. FT. EACH							
	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS	2896	LIN. FT.							
604 606	REMOVAL OF PERMANENT PAVEMENT MARKINGS 18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	<u>2652</u> 20	LIN. FT. LIN. FT.							
606	22" X 14" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III)	270	LIN. FT.							
606 606	29" X 18" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III) 18" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS	<u> </u>	LIN. FT. EACH							
606	22" X 14" FLARED END SECTIONS FOR REINFORCED CONCRETE ARCH PIPE CULVERTS	1	EACH							
606 606	29" X 18" FLARED END SECTIONS FOR REINFORCED CONCRETE ARCH PIPE CULVERTS SELECTED PIPE BEDDING	1 80	EACH CU. YD.							
	DROP INLETS (TYPE C)	1	EACH							
	DROP INLETS (TYPE MO)	7	EACH							
609 620	DROP INLET EXTENSIONS (8') LIME	0.16	EACH TON							
620	SEEDING	0.08	ACRE							
SS & 620 620	MULCH COVER WATER	0.19	ACRE M. GAL.							
621	TEMPORARY SEEDING	0.11	ACRE							
	SILT FENCE SEDIMENT REMOVAL AND DISPOSAL	613 30	LIN. FT. CU. YD.							
	ROCK DITCH CHECKS	21	CU. YD.							
	FILTER SOCK (12")	92 0.08	LIN. FT.							
	SECOND SEEDING APPLICATION SOLID SODDING	302	ACRE SQ. YD.							
SS & 632	CONCRETE ISLAND	7	SQ. YD.							
SS & 633 SS & 634	CONCRETE WALKS CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")	343 1032	SQ. YD. LIN. FT.							
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE C) (1' 6")	42	LIN. FT.							
<u>635</u> 637	ROADWAY CONSTRUCTION CONTROL MAILBOXES	1.00	LUMP SUM EACH							
637	MAILBOX SUPPORTS (SINGLE)	3	EACH							
719 719	THERMOPLASTIC PAVEMENT MARKING WHITE (6") THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	<u> </u>	LIN. FT. LIN. FT.							
	RAISED PAVEMENT MARKERS (TYPE II)	27	EACH							
	REVISIONS									
DATE	REVISION	СПССТ	NUMBER							
		SHEET								

			LELLAND	DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO. STATE	FED.AID PROJ.N	IO. SHEET NO.	TOTAL SHEETS
		DESIGNED TO SERVE ENGI	SULTING					B ARK. JOB NO.	080663	14	20
			VLLNJ, 1140.				2	SUM	ARY OF QU	JANTITIES	1
	SUMMARY OF QUANTITIES									ARKAI ARKAI PROFES ENGI No.15	NSAS
ITEM NUMBER	ITEM	QUANTITY	UNIT						l		08-05-00
202	REMOVAL AND DISPOSAL OF CURB AND GUTTER	22	LIN. FT.								
202	REMOVAL AND DISPOSAL OF CONCRETE DRIVEWAYS	21	SQ. YD.								
202 202	REMOVAL AND DISPOSAL OF PIPE CULVERTS REMOVAL AND DISPOSAL OF DITCH PAVING	4 8	EACH SQ. YD.								
202 210	REMOVAL AND RELOCATION OF SIGN UNCLASSIFIED EXCAVATION	<u> </u>	EACH CU. YD.								
210	COMPACTED EMBANKMENT	366	CU. YD.								
SS & 303 309	AGGREGATE BASE COURSE (CLASS 7) PORTLAND CEMENT CONCRETE BASE (4" UNIFORM THICKNESS)	75 516	TON SQ. YD.								
309	PORTLAND CEMENT CONCRETE BASE (6 1/2" UNIFORM THICKNESS)	230	SQ. YD.								
SS & 401 SP, SS, & 407	TACK COAT MINERAL AGGREGATE IN ACHM SURFACE COURSE (1/2")	20 84	GAL. TON								
SP, SS, & 407	ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (1/2")	5	TON								
	COLD MILLING ASPHALT PAVEMENT PORTLAND CEMENT CONCRETE DRIVEWAY	559 403	SQ. YD. SQ. YD.								
601	MOBILIZATION	1.00	LUMP SUM								
603 SS & 604	MAINTENANCE OF TRAFFIC SIGNS	1.00 167	LUMP SUM SQ. FT.								
SS & 604	TRAFFIC DRUMS	82									
604 604	REMOVABLE CONSTRUCTION PAVEMENT MARKINGS REMOVAL OF PERMANENT PAVEMENT MARKINGS	2896 2652	LIN. FT. LIN. FT.								
606 606	18" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	20 270	LIN. FT. LIN. FT.								
	22" X 14" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III) 29" X 18" REINFORCED CONCRETE ARCH PIPE CULVERTS (CLASS III)	591	LIN. FT.								
606 606	18" FLARED END SECTIONS FOR REINFORCED CONCRETE PIPE CULVERTS 22" X 14" FLARED END SECTIONS FOR REINFORCED CONCRETE ARCH PIPE CULVERTS	5	EACH EACH								
606	29" X 18" FLARED END SECTIONS FOR REINFORCED CONCRETE ARCH PIPE CULVERTS	1	EACH								
606 609	SELECTED PIPE BEDDING DROP INLETS (TYPE C)	80	CU. YD. EACH								
609	DROP INLETS (TYPE MO)	7	EACH								
609 620	DROP INLET EXTENSIONS (8') LIME	<u> </u>	EACH TON								
620	SEEDING	0.08	ACRE								
SS & 620 620	MULCH COVER WATER	0.19 14.21	ACRE M. GAL.								
621	TEMPORARY SEEDING	0.11	ACRE								
621 621	SILT FENCE SEDIMENT REMOVAL AND DISPOSAL	<u>613</u> 30	LIN. FT. CU. YD.								
621	ROCK DITCH CHECKS	21	CU. YD.								
SS & 621 623	FILTER SOCK (12") SECOND SEEDING APPLICATION	92 0.08	LIN. FT. ACRE								
624	SOLID SODDING	302	SQ. YD.								
SS & 632 SS & 633	CONCRETE ISLAND CONCRETE WALKS	7 343	SQ. YD. SQ. YD.								
SS & 634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")	1032	LIN. FT.								
<u>SS & 634</u> 635	CONCRETE COMBINATION CURB AND GUTTER (TYPE C) (1' 6") ROADWAY CONSTRUCTION CONTROL	42	LIN. FT.								
637	MAILBOXES	3	EACH								
637 719	MAILBOX SUPPORTS (SINGLE) THERMOPLASTIC PAVEMENT MARKING WHITE (6")	3 357	EACH LIN. FT.								
719	THERMOPLASTIC PAVEMENT MARKING YELLOW (6")	1344	LIN. FT.								
721	RAISED PAVEMENT MARKERS (TYPE II) REVISIONS	27	EACH								
DATE	REVISION	SHEET	NUMBER								

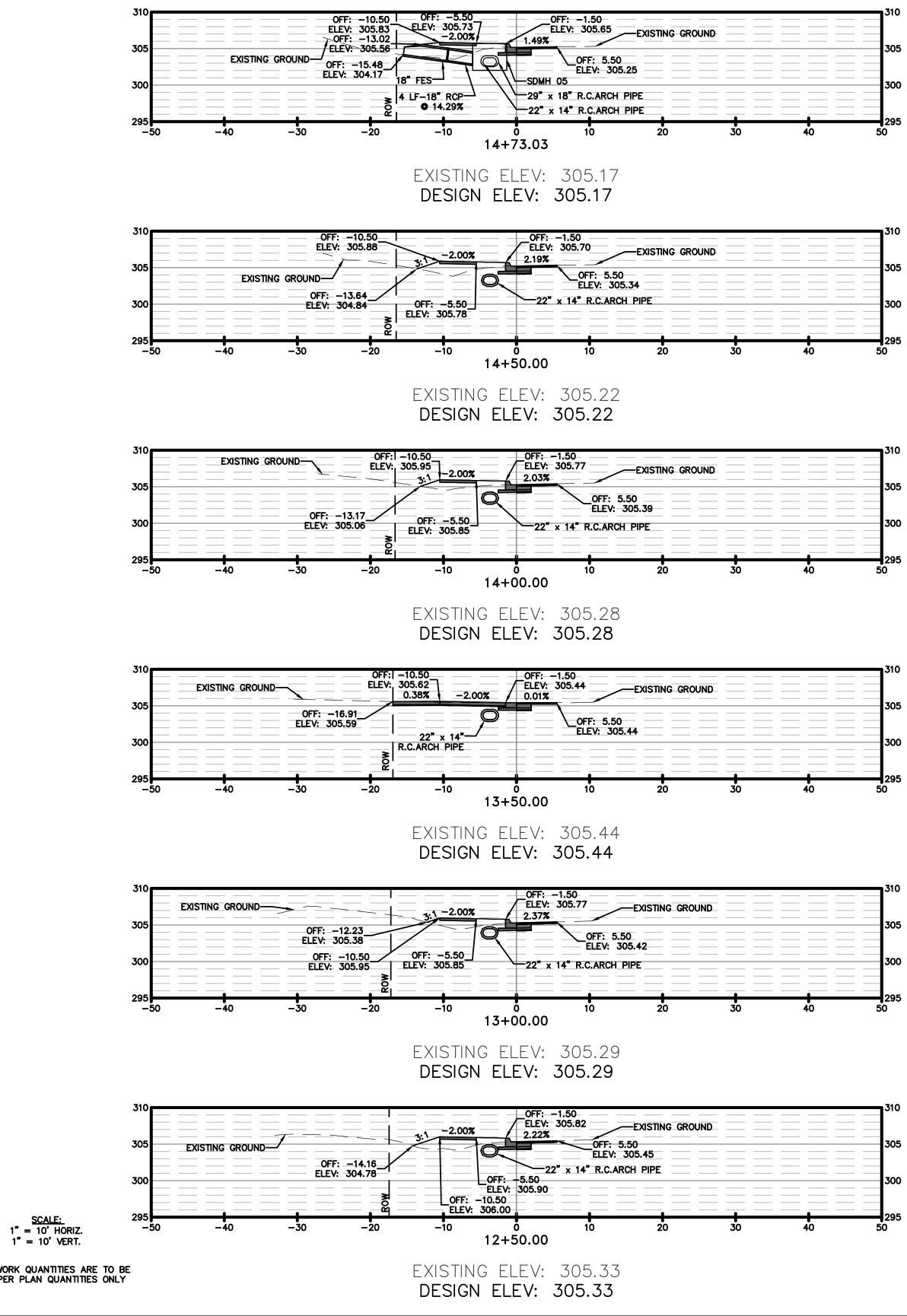












510				
//0	Total Volume at St	ation 12+00.00		
10F	Cut Area	5.29		
505	Fill Area	13.82		
	Cut Vol	0.99		
500	Fill Vol	2.69		
	Net Vol	-62.00		
DOE				

310						
Total Volume at Station 11+94.9						
	Cut Area	5.28				
305	Fill Area	15.00				
	Cut Vol	8.73				
300	Fill Vol	23.85				
	Net Vol	-60.30				
205						

310					
510	Total Volume at Station 11+50.00				
705	Cut Area	5.21			
305	Fill Area	13.65			
	Cut Vol	9.62			
300	Fill Vol	26.59			
	Net Vol	-45.18			
295					

310				
510	Total Volume at Station 11+00.00			
705	Cut Area	5.18		
305	Fill Area	15.07		
	Cut Vol	9.55		
300	Fill Vol	30.66		
	Net Vol	-28.21		
295		•		

310							
510	Total Volume at Station 10+50.00						
	Cut Area	5.14					
305	Fill Area	18.05					
	Cut Vol	1.65					
300	Fill Vol	8.75					
	Net Vol	-7.10					
295							

310							
	Total Volume at Station 10+41.2						
	Cut Area	5.04					
305	Fill Area	35.79					
	Cut Vol	0.00					
300	Fill Vol	0.00					
	Net Vol	0.00					
295 D							

EARTHWORK QUANTITIES ARE TO BE PAID PER PLAN QUANTITIES ONLY

•	DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
					8	ARK.			
VC.					JOB	NO.	080663	17	20
-				(2)		C	CROSS SECTION	S I	

	STATE OF
	ARKANŠAS
, ser	LIČENŠED
	PROFESSIONAL NENGINEER
	No.15912
	OB-05-2021

	GROUND		 		 310
ING	GROUND		 		
20			 		 295 50
20		30		40	50

5.46
14.82
4.60
11.20
-90.04

Total Volume at Station 14+73.03

 	305
	300
	295 50

Total Volume at St	ation 14+50.00
Cut Area	5.32
Fill Area	11.44
Cut Vol	9.82
Fill Vol	17.72
Net Vol	-83.44

ING GROUND			
			305
			295
20	30	40	50

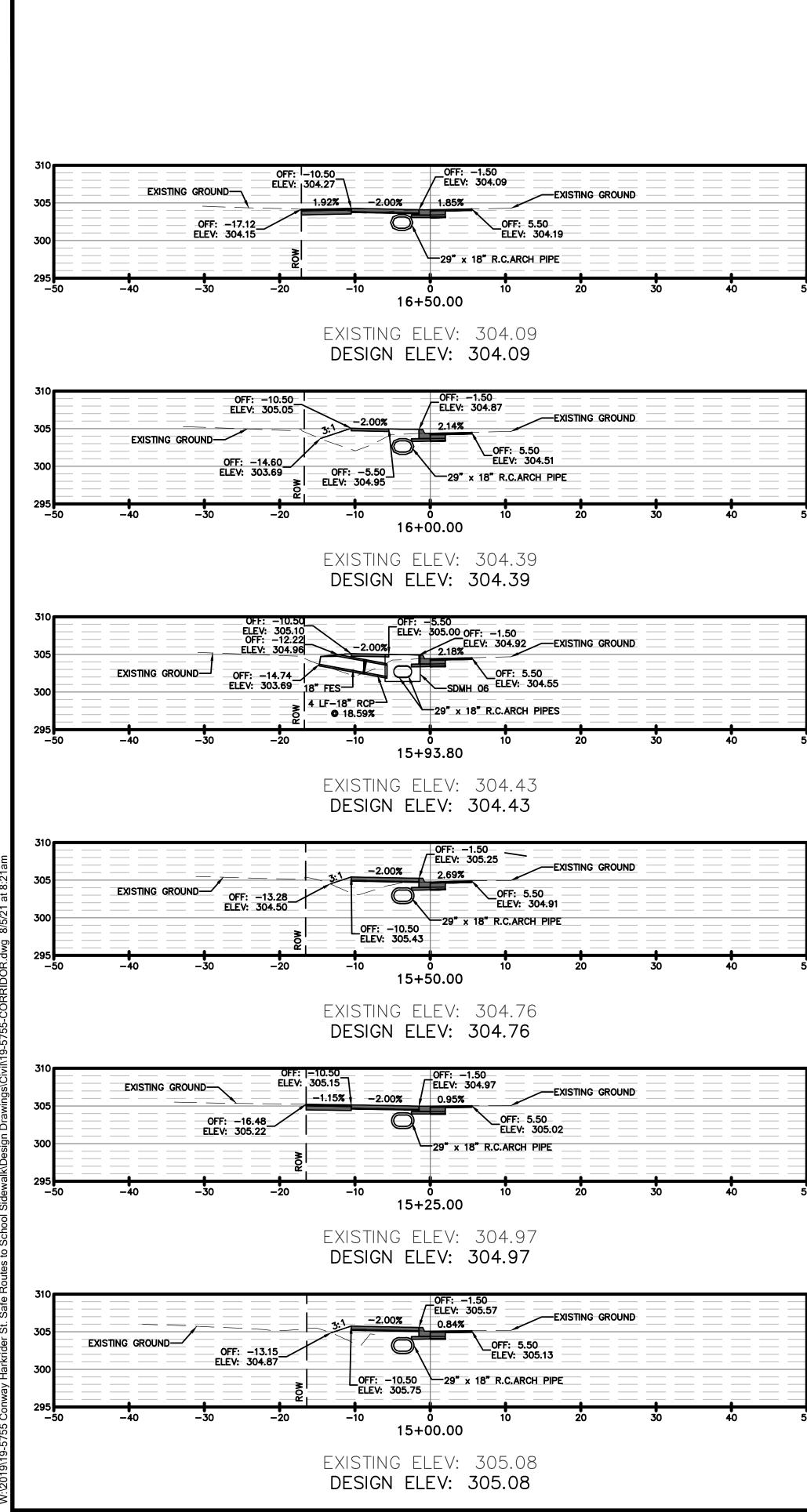
Total Volume at Station 14+00.00				
Cut Area	5.29			
Fill Area	7.70			
Cut Vol	2.65			
Fill Vol	3.39			
Net Vol	-75.54			

NG GROUND			310
			305
			300
			295
20	30	40	50

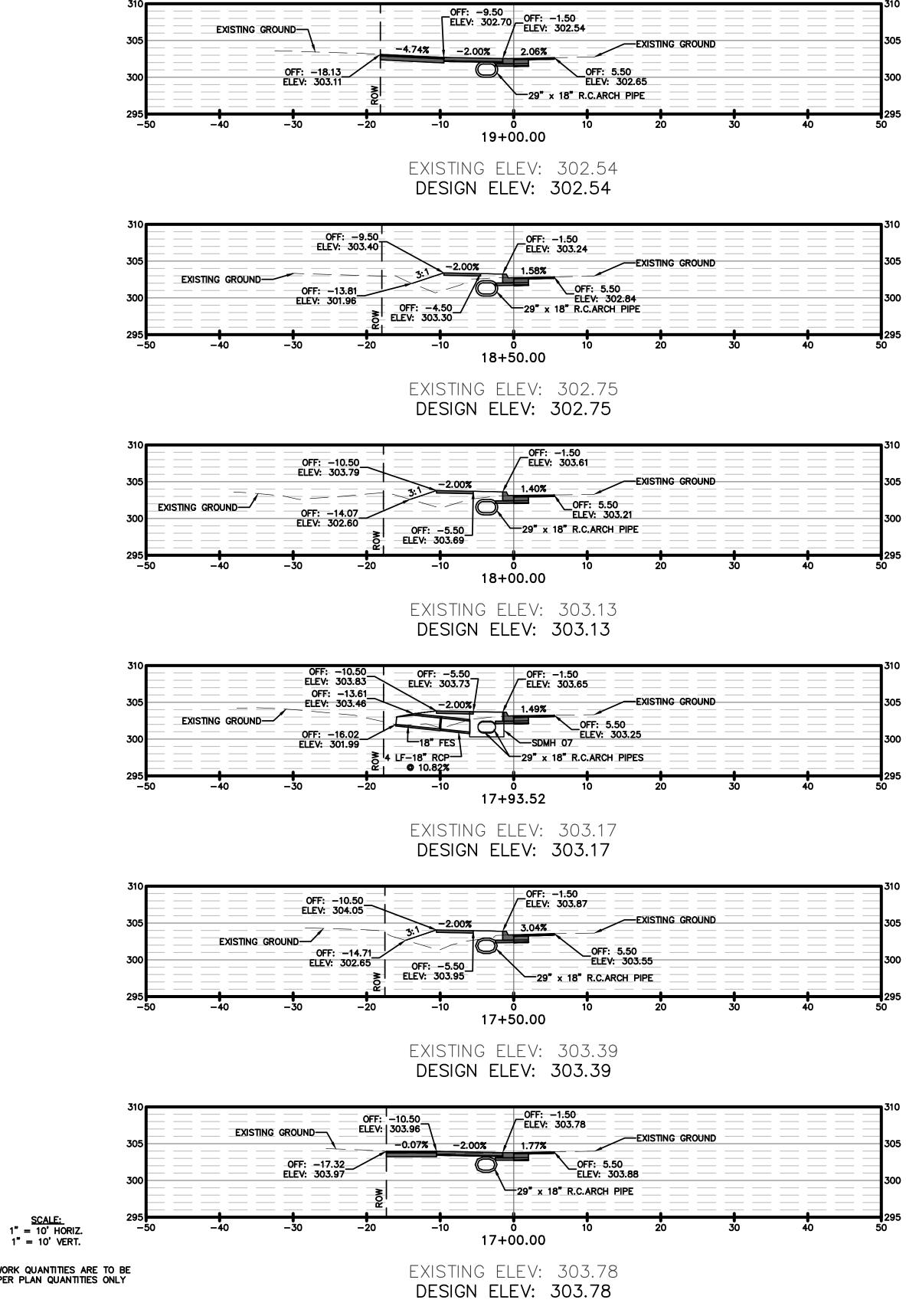
Total Volume at Station 13+50.00				
Cut Area	11.25			
Fill Area	0.00			
Cut Vol	6.58			
Fill Vol	1.94			
Net Vol	-82.04			

Total Volume at Station 13+00.00				
Cut Area	5.21			
Fill Area	8.26			
Cut Vol	9.67			
Fill Vol	18.77			
Net Vol	-85.28			

ation 12+50.00
5.23
12.01
9.74
23.92
-76.18







Cut Area 10.42 Fill Area 0.00 Cut Vol 14.56 Fill Vol 15.64 Net Vol -101.30	0	Total Volume at Station 10			
Fill Area 0.00 Cut Vol 14.56 Fill Vol 15.64)5	Cut Area	10.42		
00 Fill Vol 15.64		Fill Area	0.00		
Fill Vol 15.64		Cut Vol	14.56		
Net Vol -101.30	00	Fill Vol	15.64		
		Net Vol	-101.30		

310				
510	Total Volume at Station 16+00.			
705	Cut Area	5.31		
305	Fill Area	16.89		
	Cut Vol	1.22		
300	Fill Vol	3.72		
	Net Vol	-100.22		
205				

Total Volume at Station 15+93.80 Cut Area 5.30 Fill Area 15.49 8.68 Cut Vol Fill Vol 20.83 -97.72 Net Vol

310					
510	Total Volume at Station 15+50.00				
705	Cut Area	5.40			
305	Fill Area	10.19			
	Cut Vol	9.02			
300	Fill Vol	4.72			
	Net Vol	-85.57			
295					

310		
0.0	Total Volume at St	ation 15+25.00
	Cut Area	14.08
305	Fill Area	0.00
	Cut Vol	9.12
300	Fill Vol	3.41
	Net Vol	-89.88
295	•	•

- 710		
310	Total Volume at St	ation 15+00.00
705	Cut Area	5.63
305	Fill Area	7.37
	Cut Vol	5.54
300	Fill Vol	11.09
	Net Vol	-95.58
295		

EARTHWORK QUANTITIES ARE TO BE PAID PER PLAN QUANTITIES ONLY

)	DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	Sheet No.	TOTAL SHEETS
					8	ARK.			
VC.					JOB	NO.	080663	18	20
-	(2) CROSS SECTIONS II								

Cut Area

Fill Area

Cut Vol

Fill Vol

Net Vol

STATE
ARKANSAS
LICENSED
PROFESSIONAL
R \/\ ENC/INEF/R S
No 15912
SH KRISH
08-05-08

				310
ING GROU	JND			305
				300
				500
20	30	40	50	295)

		 		310
NG GROUN	1D			305
		 		300
)	30	40	5	295 0

Total Volume at S	Station 18+50.00
Cut Area	5.35
Fill Area	13.09
Cut Vol	9.82
Fill Vol	24.52
Net Vol	-114.74

Total Volume at Station 19+00.00

14.81

0.00

18.67

12.12

-108.19

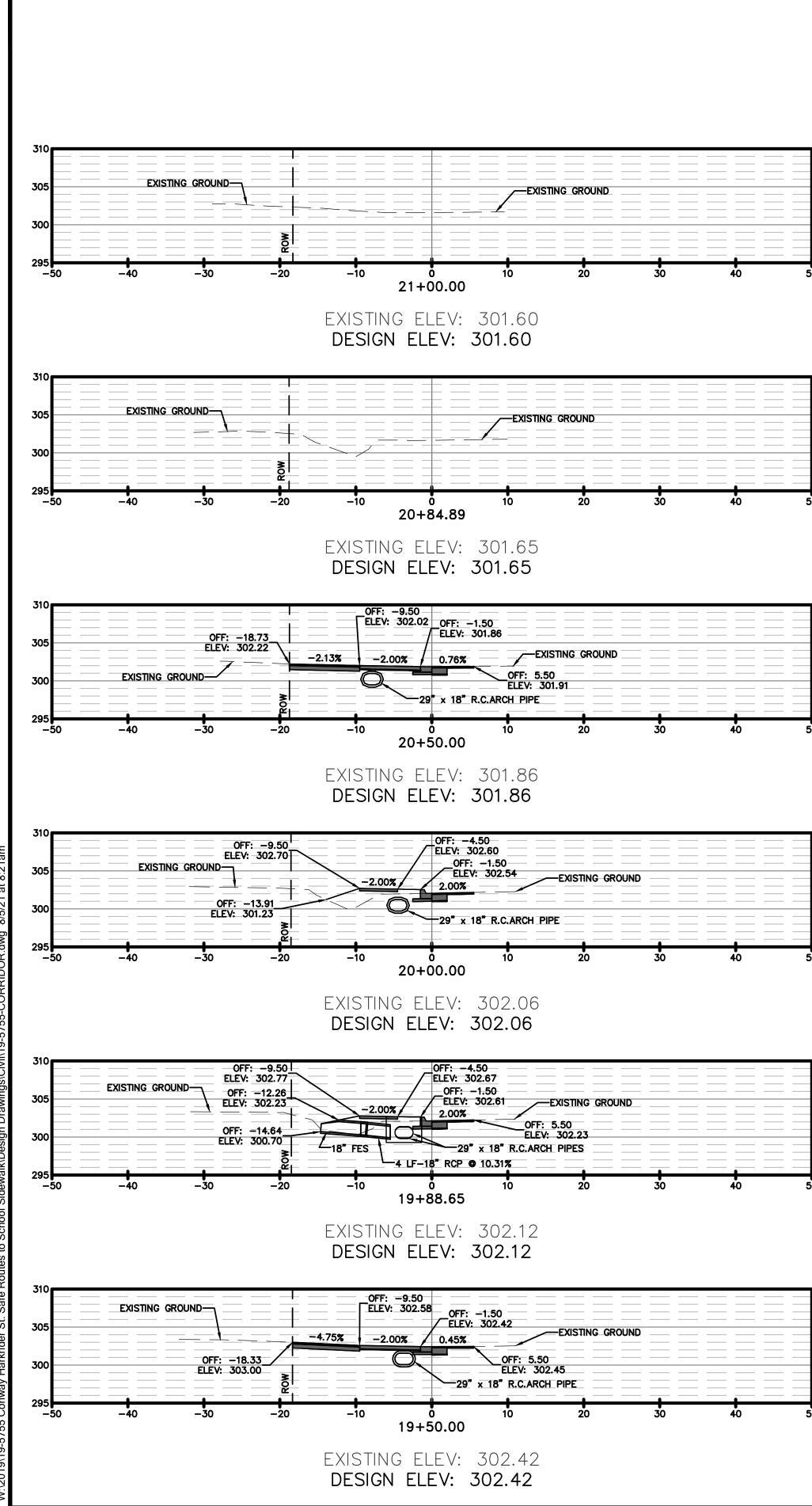
20	3	0	40	50
				295
ING GR				305

Total Volume at S	Station 18+00.00
Cut Area	5.25
Fill Area	13.40
Cut Vol	1.26
Fill Vol	3.36
Net Vol	-100.03

Total Volume at Station 17+93.52					
Cut Area	5.25				
Fill Area	14.62				
Cut Vol	8.49				
Fill Vol	25.26				
Net Vol	-97.93				

ation 17+50.00
5.29
16.72
15.43
15.48
-81.16

Total Volume at Station 17+00.00					
11.38					
0.00					
20.19					
0.00					
-81.11					





310						
510	Total Volume at Station 21+00.00					
	Cut Area	0.00				
305	Fill Area	0.00				
	Cut Vol	0.00				
300	Fill Vol	0.00				
	Net Vol	-64.35				
295						

310		
510	Total Volume at St	ation 20+84.89
305	Cut Area	0.00
	Fill Area	0.00
300	Cut Vol	9.46
	Fill Vol	0.00
	Net Vol	-64.35
005		

310						
510	Total Volume at Station 20+50.0					
	Cut Area	14.64				
305	Fill Area	0.00				
	Cut Vol	18.50				
300	Fill Vol	10.87				
	Net Vol	-73.81				
295						

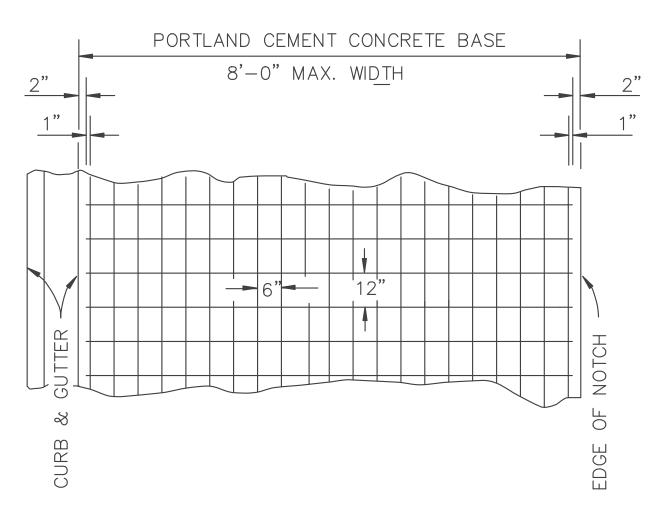
310	Total Volume at St	ation 20+00.00
305	Cut Area	5.34
	Fill Area	11.74
	Cut Vol	2.24
300	Fill Vol	5.30
	Net Vol	-81.43
295		1

310					
510	Total Volume at St	ation 19+88.65			
305	Cut Area	5.31			
	Fill Area	13.47			
300	Cut Vol	13.99			
	Fill Vol	9.64			
	Net Vol	-78.37			
295					

310 i		
510	Total Volume at St	ation 19+50.00
705	Cut Area	14.24
305	Fill Area	0.00
	Cut Vol	14.52
300	Fill Vol	0.00
	Net Vol	-82.72

 $\frac{\text{SCALE:}}{1^{"} = 10' \text{ HORIZ.}}$ $1^{"} = 10' \text{ VERT.}$ EARTHWORK QUANTITIES ARE TO BE PAID PER PLAN QUANTITIES ONLY

,	DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED.RD. DIST.NO.	STATE	FED.AID PROJ.NO.	SHEET NO.	TOTAL SHEETS
					8	ARK.			
NC. [<u></u>					20
V <i>C.</i> [ARKAN ARKAN LICEN PROFESS ENGIN Mo.15	20 JSAS SED SIONAL P12 D8-05-264

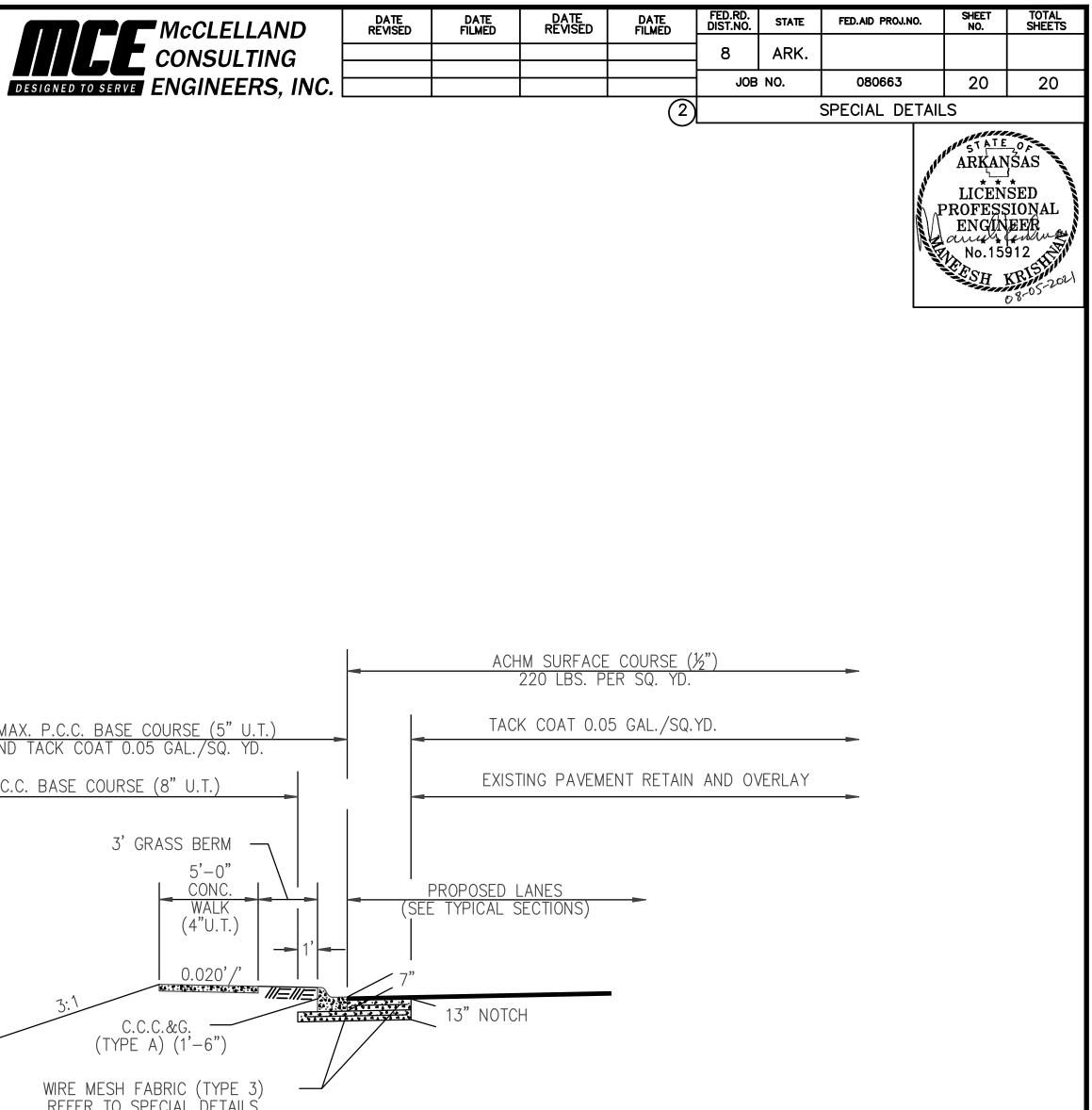


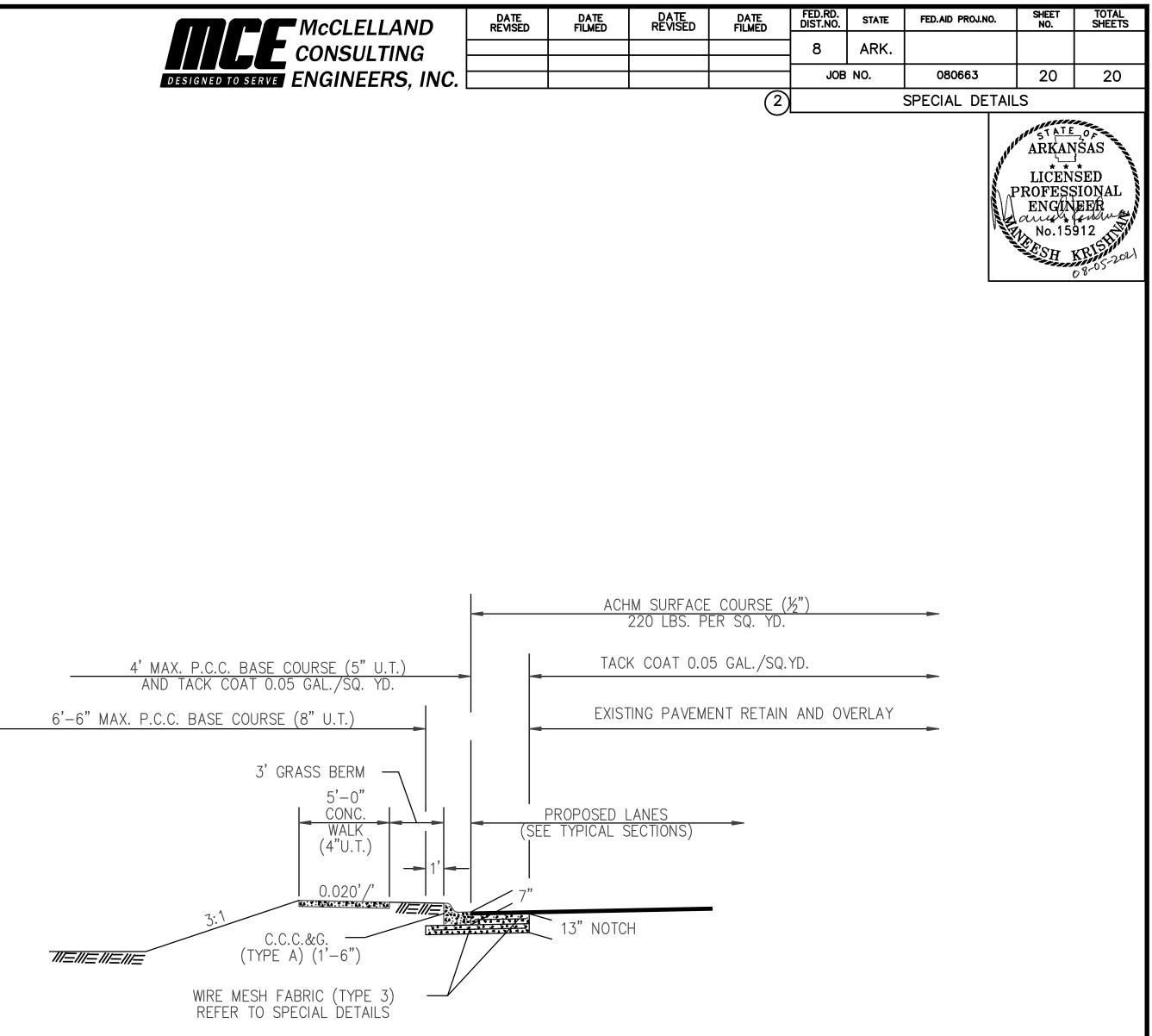
6" X 12" MESH FABRIC (TYPE 3) (W5.5 X W2.9) = 4.26 LBS./SQ.YD.

NOTES:

- 1. LAP MESH FABRIC MIN. 12" LONGITUDINALLY AND MIN. 6" TRANSVERSELY.
- 2. MESH FABRIC IS NOT REQUIRED WHEN WIDTH OF PORTLAND CEMENT CONCRETE BASE IS LESS THAN 12".
- 3. MESH FABRIC (TYPE 3) WILL NOT BE PAID FOR DIRECTLY, BUT FULL COMPENSATION THEREFORE WILL BE CONSIDERED INCLUDED IN THE CONTRACT PRICE BID PER SQ. YD. FOR PORTLAND CEMENT CONCRETE BASE (10" U.T.)

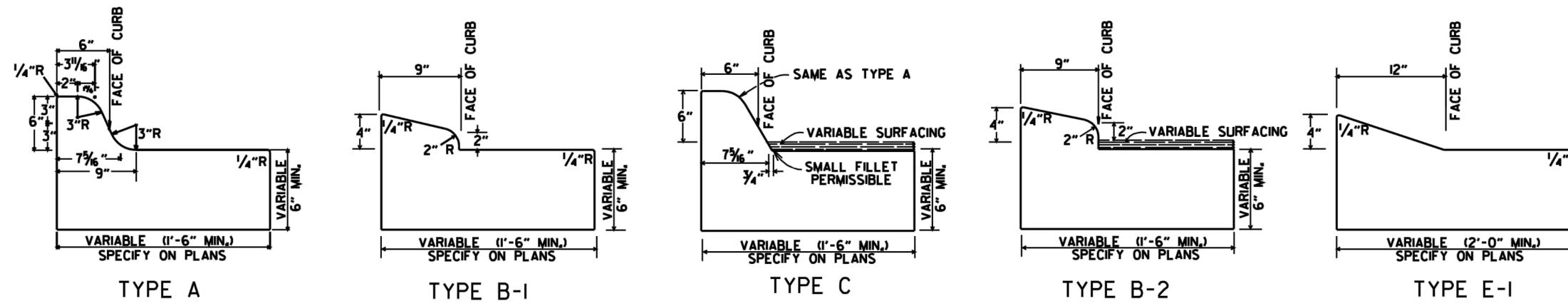


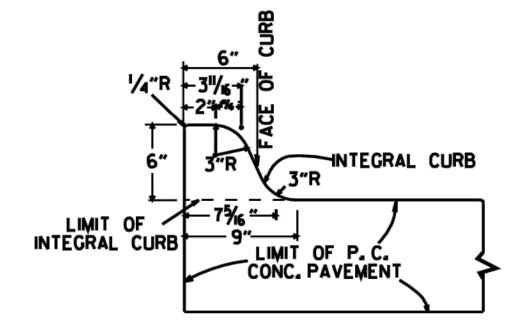


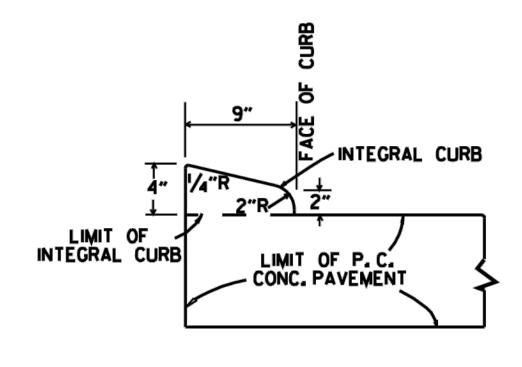


P.C.C. BASE WIDENING TO BE USED IF AND WHERE DIRECTED BY THE ENGINEER.

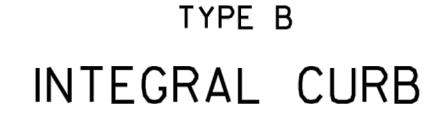
P.C.C. BASE WIDENING DETAIL

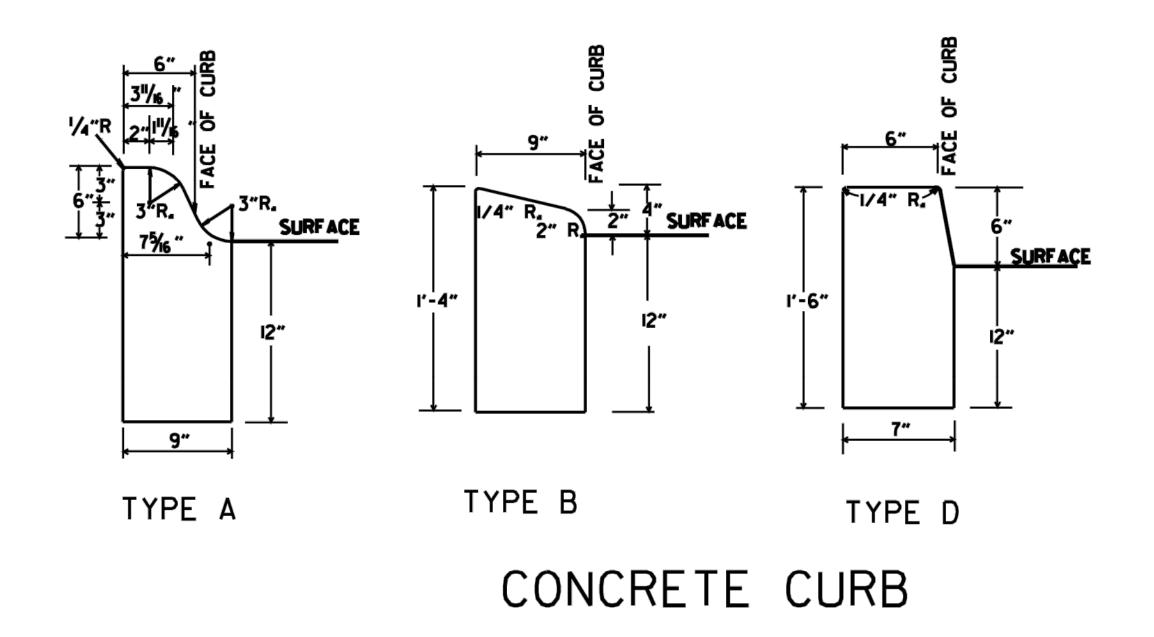






TYPE A

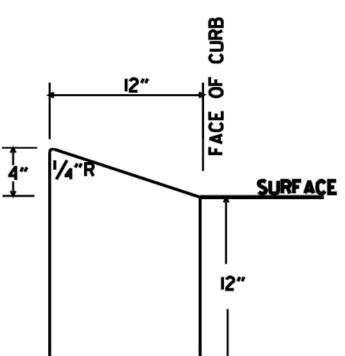


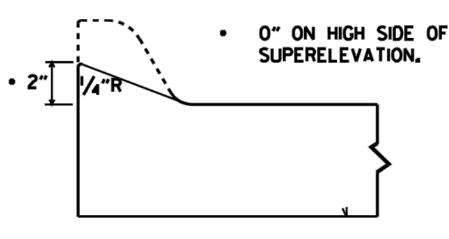




DETAILS OF MODIFIED CURB



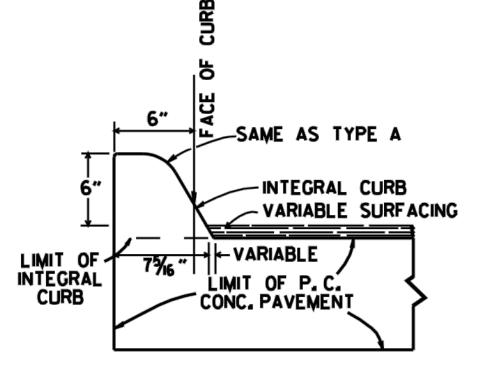


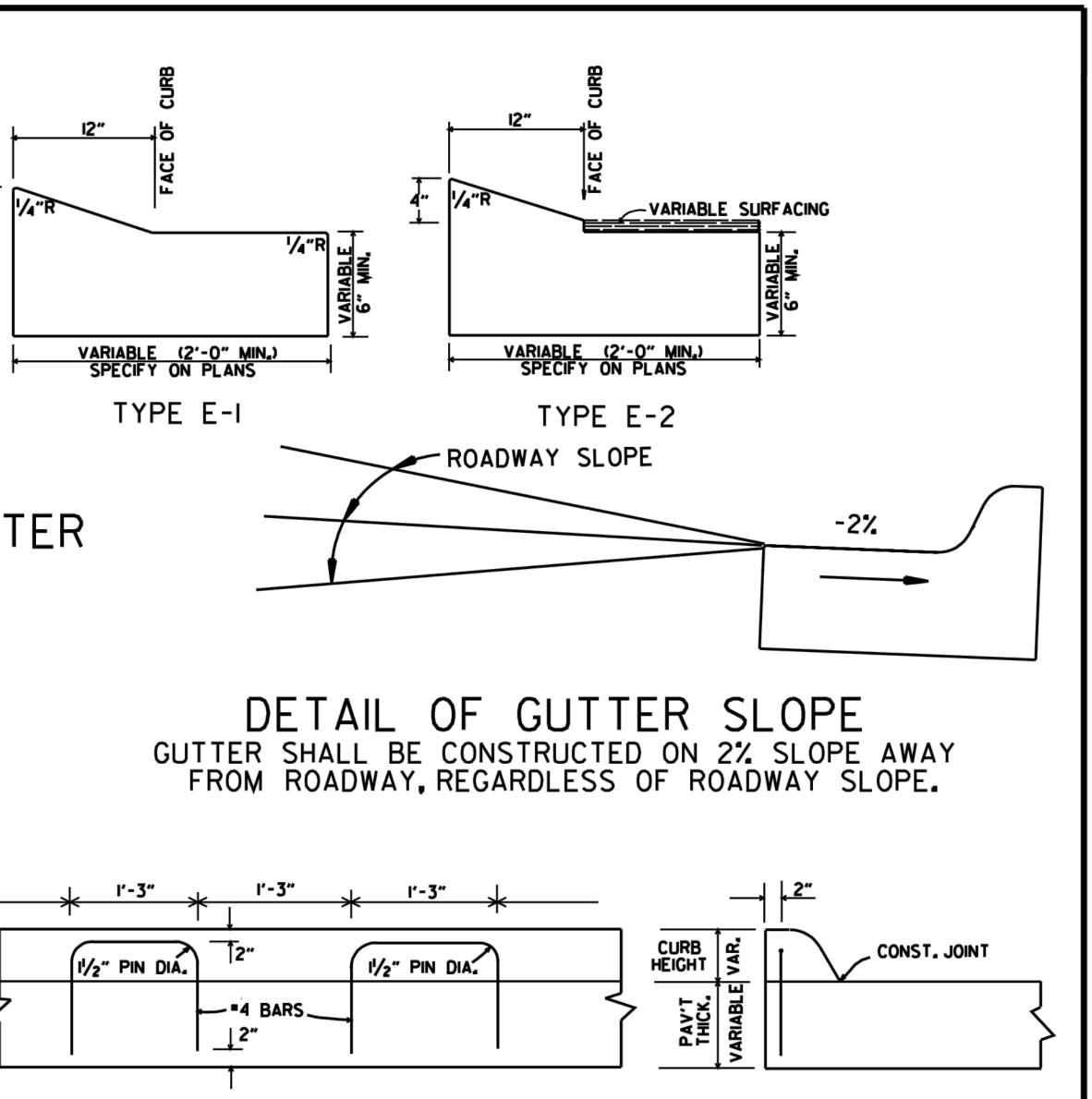


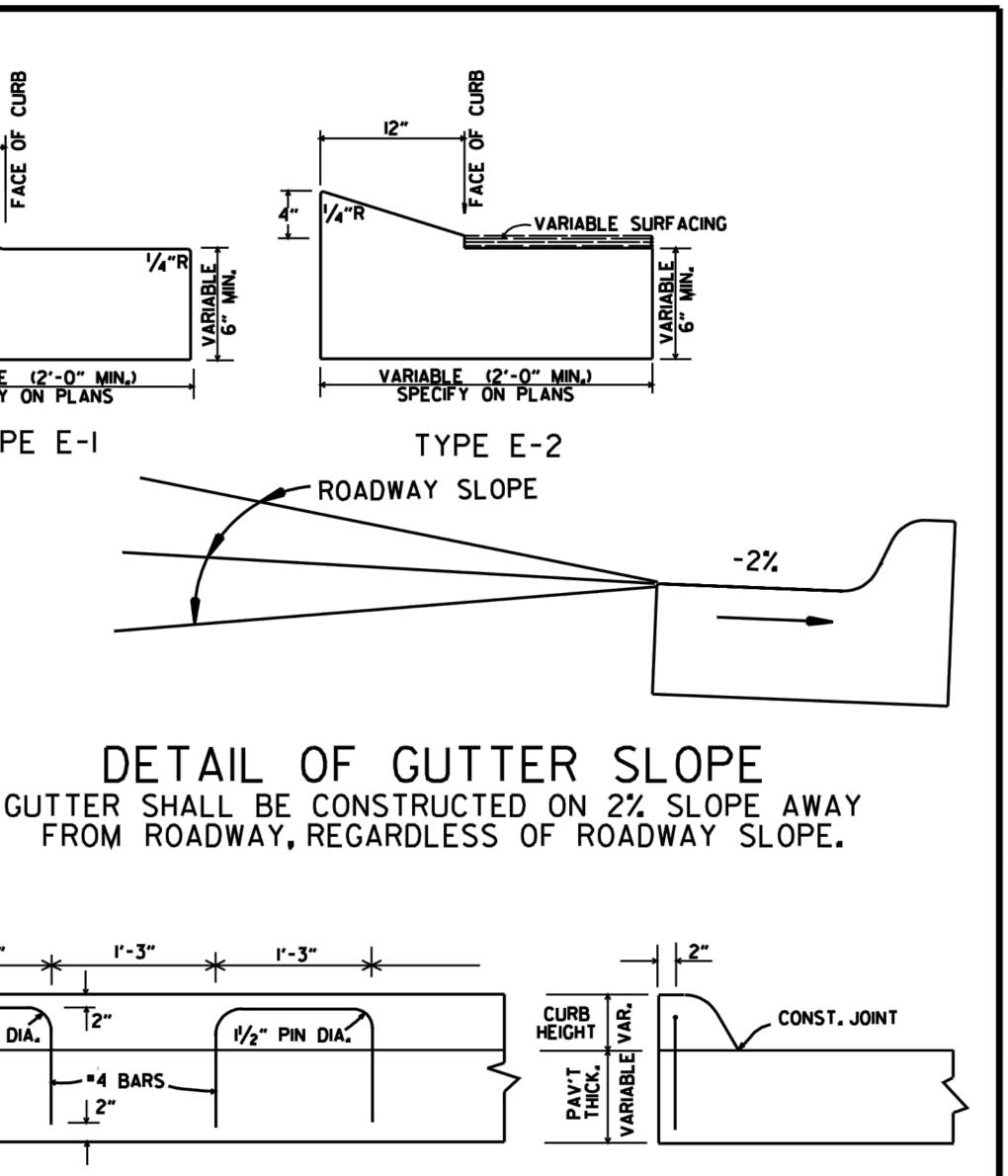
ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB







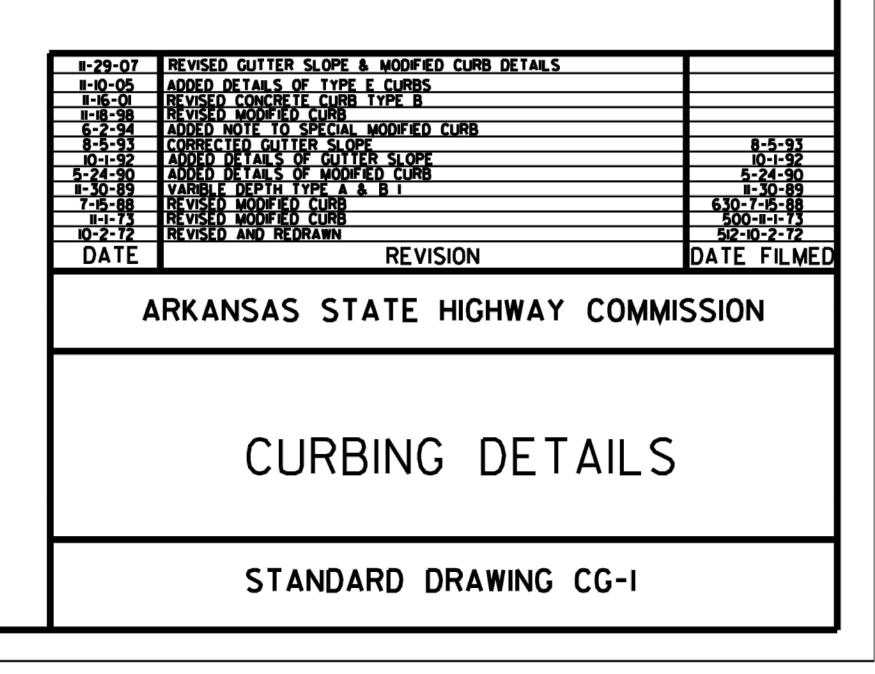


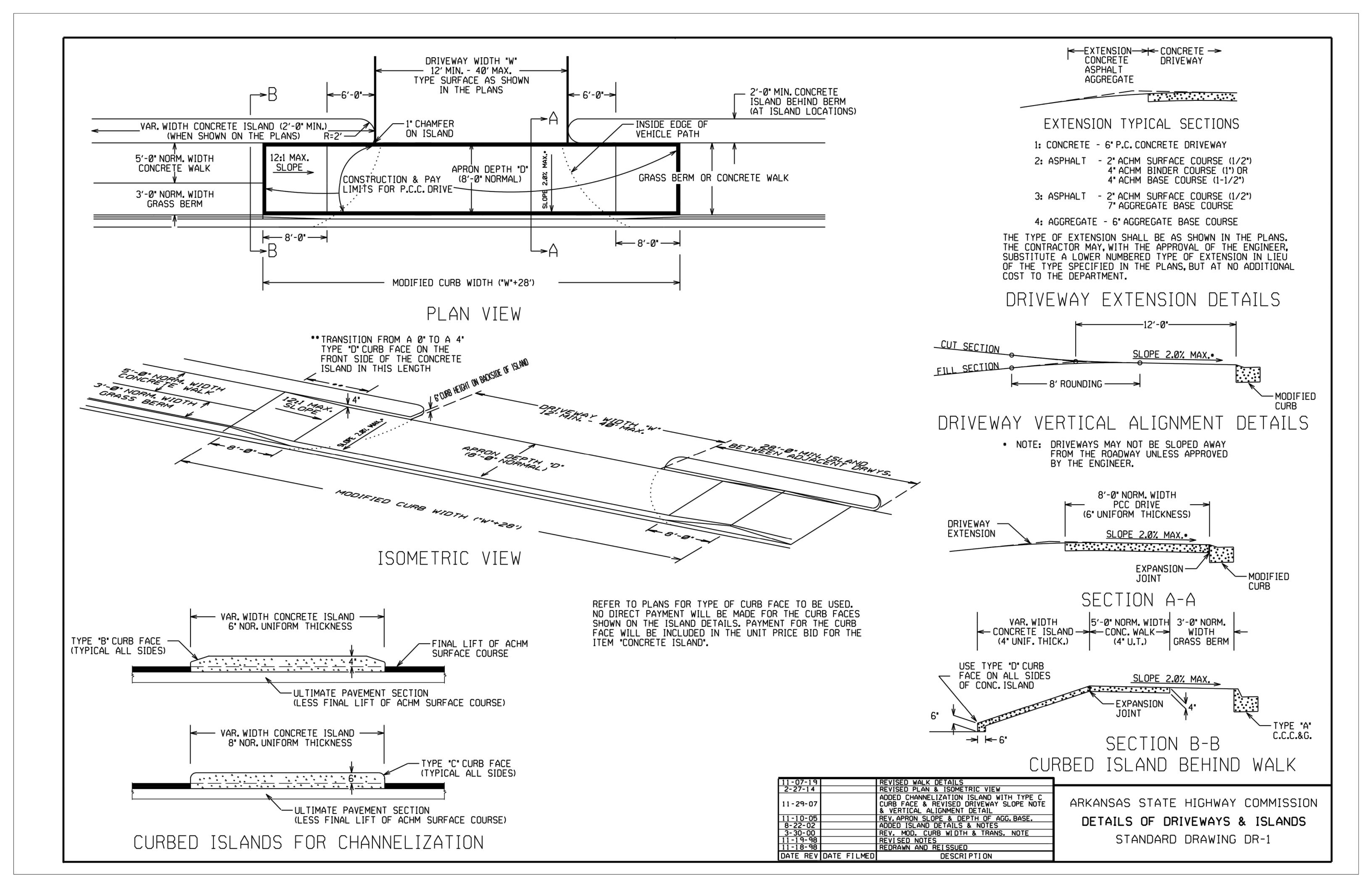


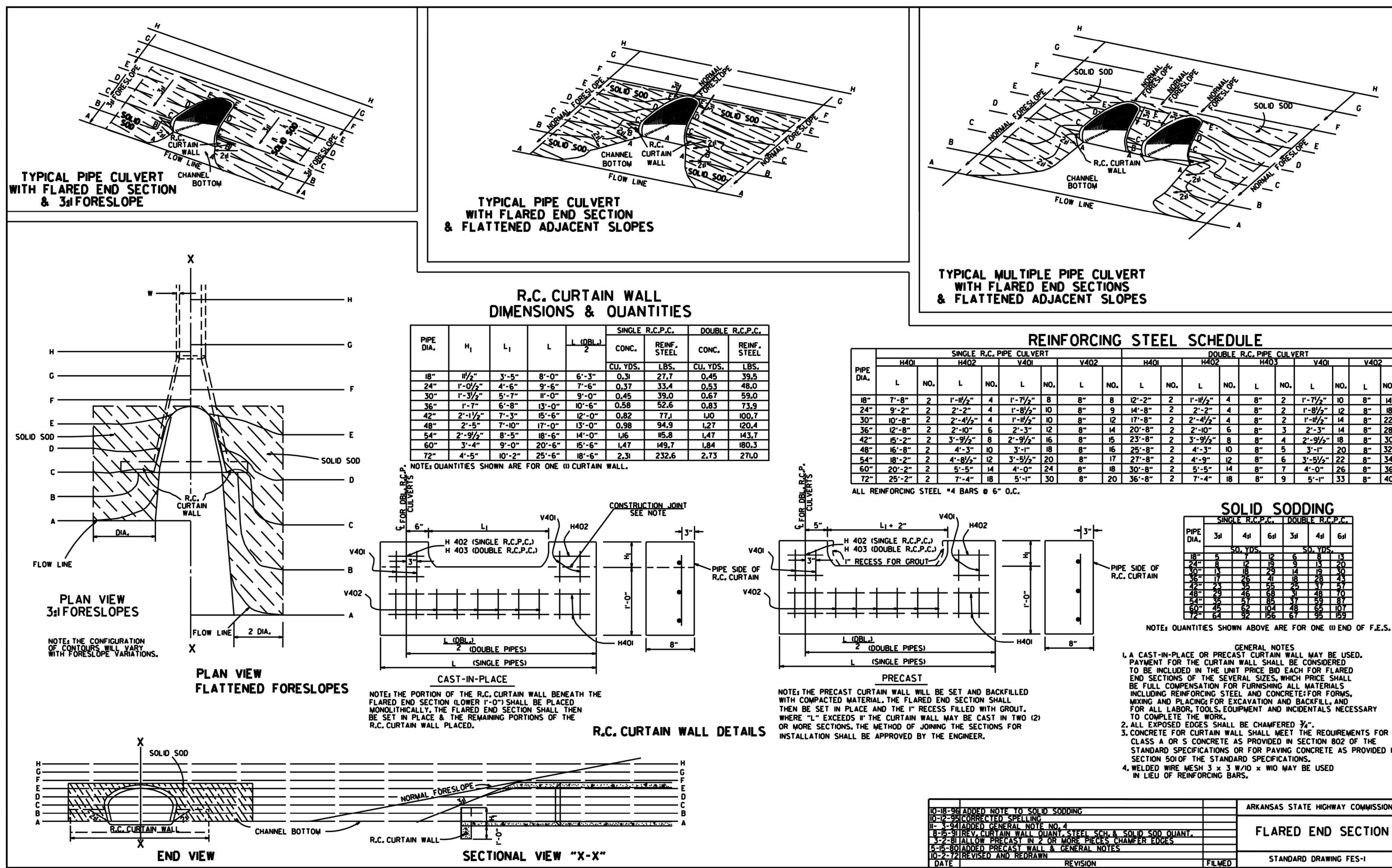
CONCRETE COMBINATION CURB AND GUTTER

LONGITUDINAL SECTION

ELEVATION







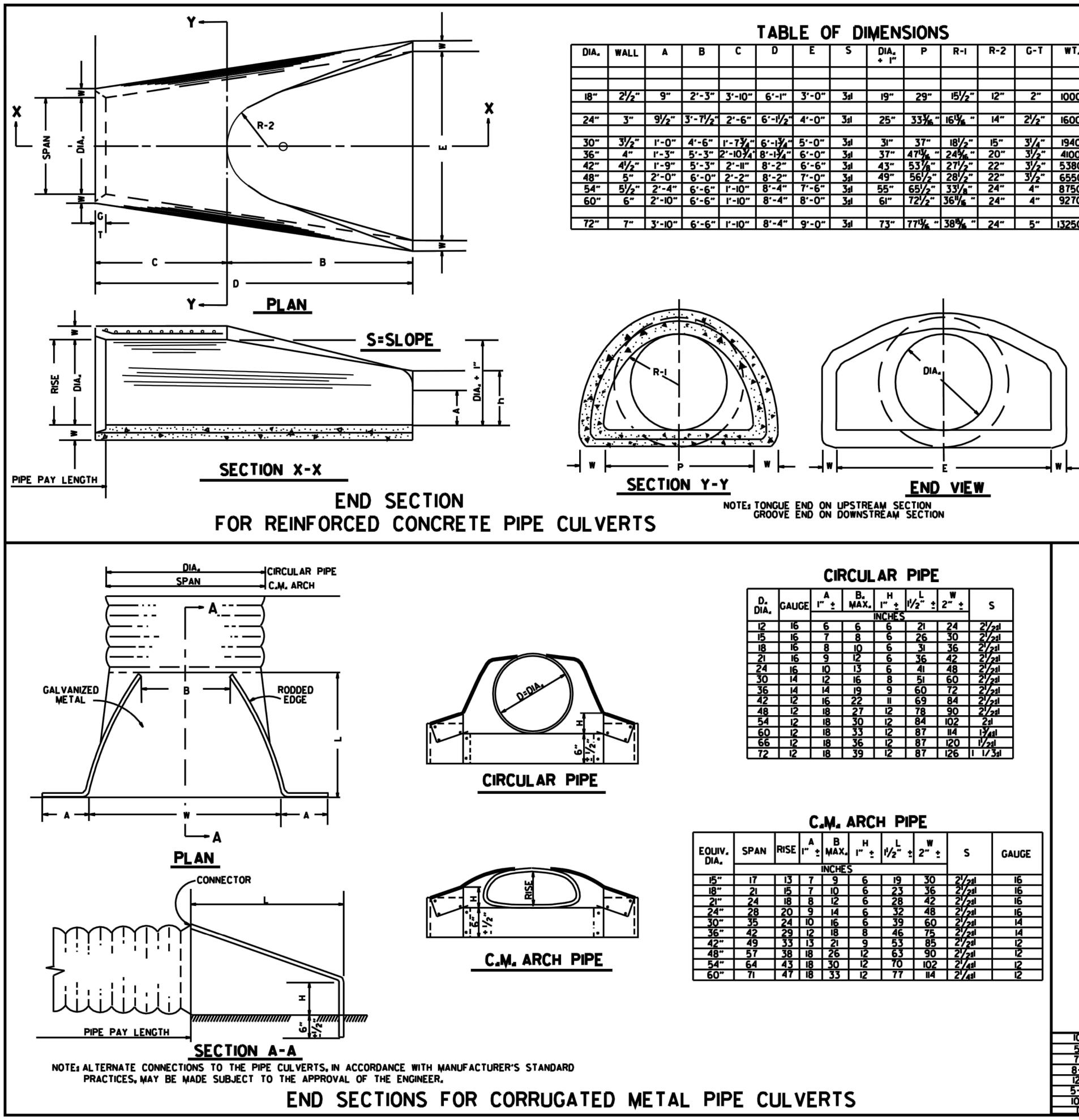
			SINGLE	R.C.P.C.	DOUBLE	R.C.P.C.
	L	<u>L (DBL.)</u> 2	CONC.	REINF. STEEL	CONC.	REINF. STEEL
			CU. YDS.	LBS.	CU, YDS,	LBS.
5"	8'-0"	6*-3**	0,31	27.7	0.45	39,5
2	9′-6″	7′-6"	0.37	33.4	0.53	48.0
**	II'-0"	9'-0"	0,45	39.0	0_67	59.0
}‴	13'-0"	10*-6*	0.58	52.6	0.83	73.9
**	15'-6"	12'-0"	0.82	اړ77	١²١O	100.7
)"	17*-0*	13'-0"	0.98	94,9	I,27	120_4
5"	18'-6"	14'-0"	I , 16	115,8	I_47	143.7
)"	20'-6"	15'-6"	I,47	149,7	I . 84	180.3
2″	25'-6"	18'-6"	2 . 3I	232.6	2.73	271_0

	NFORCI	NG	STE	EL	SCH	EDI	JLE					
RT						JBLE	R.C. PIPE	CULV	ERT			
	V402		H40I		H402		H40.	3	V40I		V402	2
NO.	L	NO.	L	NO.	L	NO.	L	NO.	L	NO.	L	NO.
8	8"	8	12'-2"	2	l'-111/2"	4	8"	2	I'-7½"	10	8"	14
10	8"	9	14'-8"	2	2'-2"	4	8"	2	r-81/2"	12	8*	18
10	8"	12	17'-8"	2	2'-4 ¹ /2"	4	8"	2	I'-II ^I /2"	14	8"	22
12	8"	14	20'-8"	2	2'-10"	6	8"	3	2'-3"	14	8"	28
16	8"	15	23'-8"	2	3'-91/2"	8	8"	4	2'-91/2"	18	8"	30
18	8"	16	25'-8"	2	4'-3"	10	8"	5	3'-1"	20	8"	32
20	8"	17	27'-8"	2	4'-9"	12	8"	6	3'-51/2"	22	8"	34
24	8"	18	30'-8"	2	5'-5"	14	8"	7	4'-0"	26	8"	36
30	8*	20	36*-8**	2	7*- 4 **	18	8"	9	5*-I*	33	8"	40

	SINC	<u>ile r.c.</u>	P.C.	DOUB	<u>E R.C</u>	.P.C.
PIPE DIA.	3:1	4:1	6:1	3:1	4:	6:1
		SO. YDS.		S	O. YDS	
18**	5	7	12	6	8	13
24"	8	2	19	9	13	20
30"	13	18	29	14	19	30
36"	17	26	41	18	28	43
42"	23	35	55	25	37	57
48"	-29	46	68	31	48	70
54"	35	57	85	37	59	87
60"	45	62	104	48	65	107
72"	64	92	156	67	95	159

STANDARD SPECIFICATIONS OR FOR PAVING CONCRETE AS PROVIDED IN

		ARKANSAS STATE HIGHWAY COMMISSION			
LID SODDING		ARKANSAS STATE HIGHWAT COMMISSION			
G					
TE NO. 4					
OUANT. STEEL SCH. & SOLID SOD OUANT.		FLARED END SECTION			
2 OR MORE PIECES CHAMFER EDGES					
LL & GENERAL NOTES					
WN		STANDARD DRAWING FES-I			
REVISION	FILMED	STANDARD DRAWING FES-I			

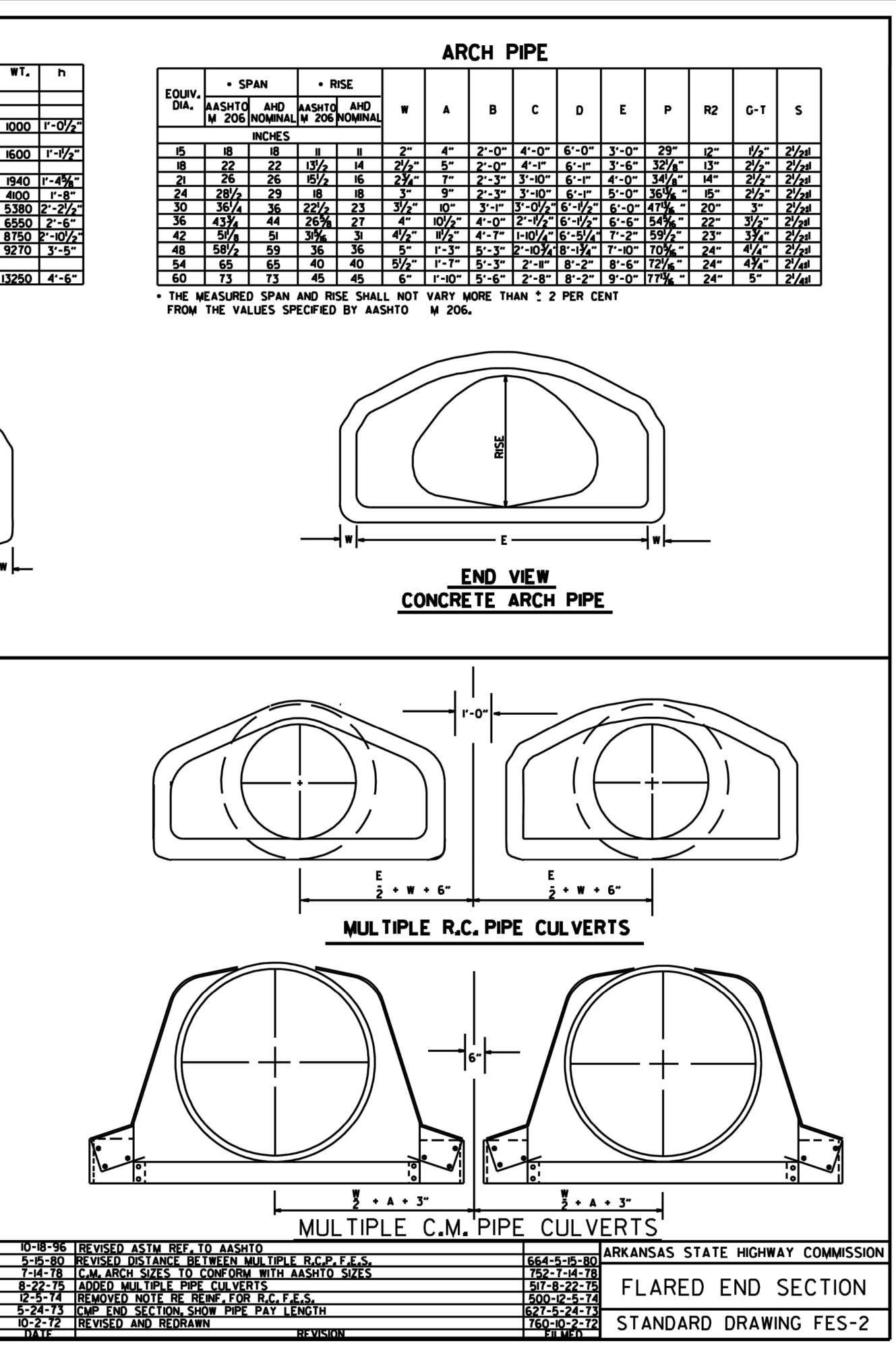


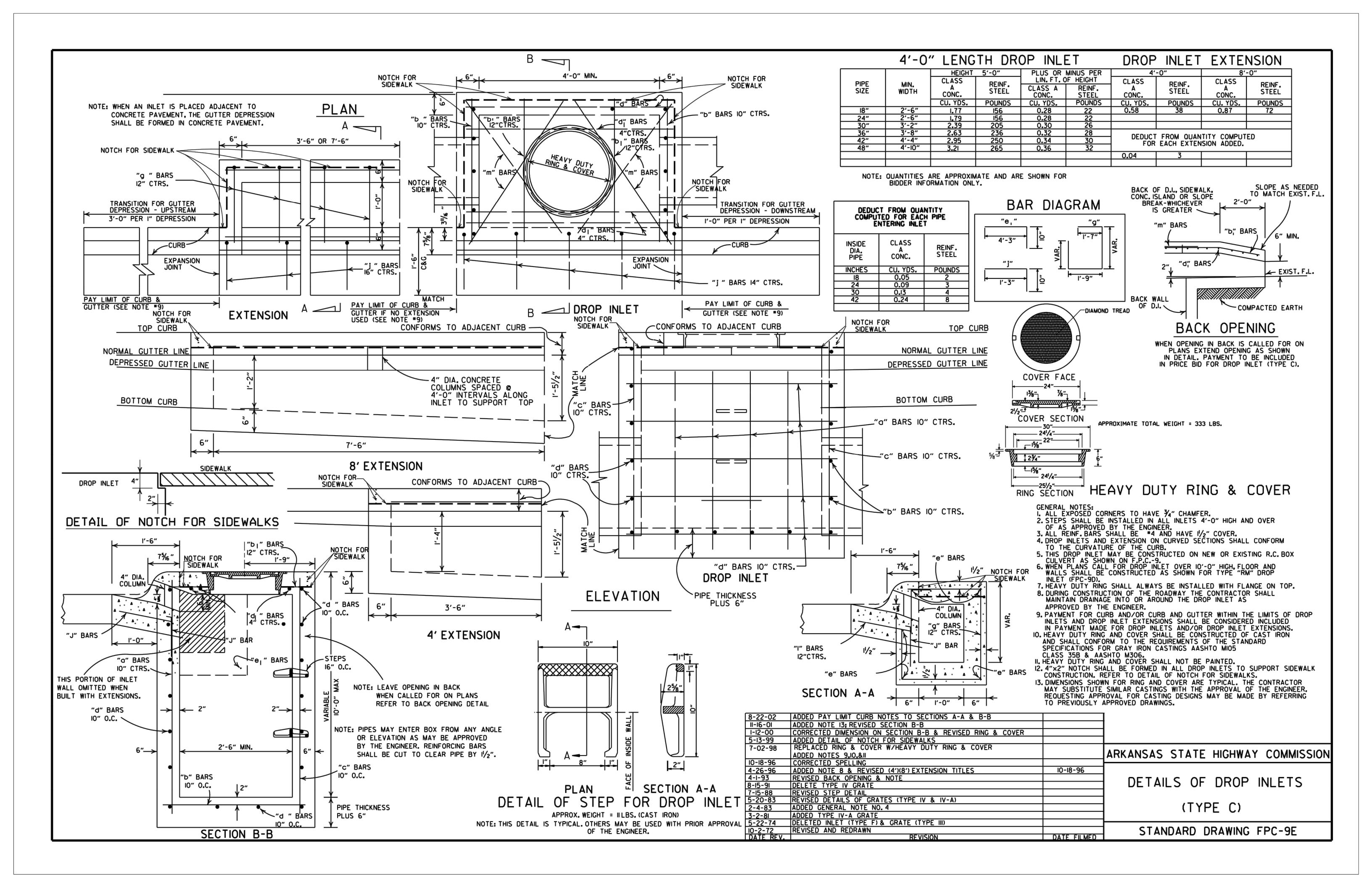
			TABL	.E 0	F D	MEN	SION	S				
A	В	С	D	E	S	DIA_ + I**	Р	R-I	R-2	G-T	WT,	h
9"	2'-3"	3'-10"	6'-I"	3′-0"	3:1	19"	29*	15 <mark>1/2</mark> *	I2**	2**	1000	۳-0 <mark>1/2</mark> "
9 ¹ /2"	<u>3'-71/2"</u>	2'-6"	6'-l ⁱ /2"	4'-0"	3:1	25*	331/6 "	16 ¹ /6 "	I 4 "	2 ¹ /2*	1600	'- <mark>//2</mark> *
1'-0"		1'-7¥4"			3:1	31**	37*	18 ¹ /2"	15**	31/4"	1940	1'-45/8"
1'-3" 1'-9"	5'-3" 5'-3"	2'-10¥4' 2'-11"	8'-2"	6'-6"	3:1 3:1	<u> </u>	47' % " 53%"	24‰" 27½"	<u>20"</u> 22"	<u>3½"</u> <u>3½"</u>		1'-8" 2'-2 <mark>'/</mark> 2"
<u>2'-0"</u> 2'-4"	6'-0" 6'-6"	<u>2'-2"</u> I'-10"	<u>8'-2"</u> 8'-4"	7*-0** 7*-6**	<u>3:</u> 3:	49" 55"	<u>56'/2"</u> 65'/2"	28 ¹ /2" 33 ¹ /8"	<u>22"</u> 24"	3 <mark>1/2**</mark> 4**	6550 8750	2'-6" 2'-101/2"
2'-10"	6'-6"	1'-10"	8'-4"	8'-0"	3:1	61**	the second se	36"/ <u>6</u> "	24"	4*	9270	3'-5"
3'-10"	6'-6"	1'-10**	8'-4"	9'-0"	3 ₂I	73"	7713/6 **	381 "	24"	5*	13250	4'-6"

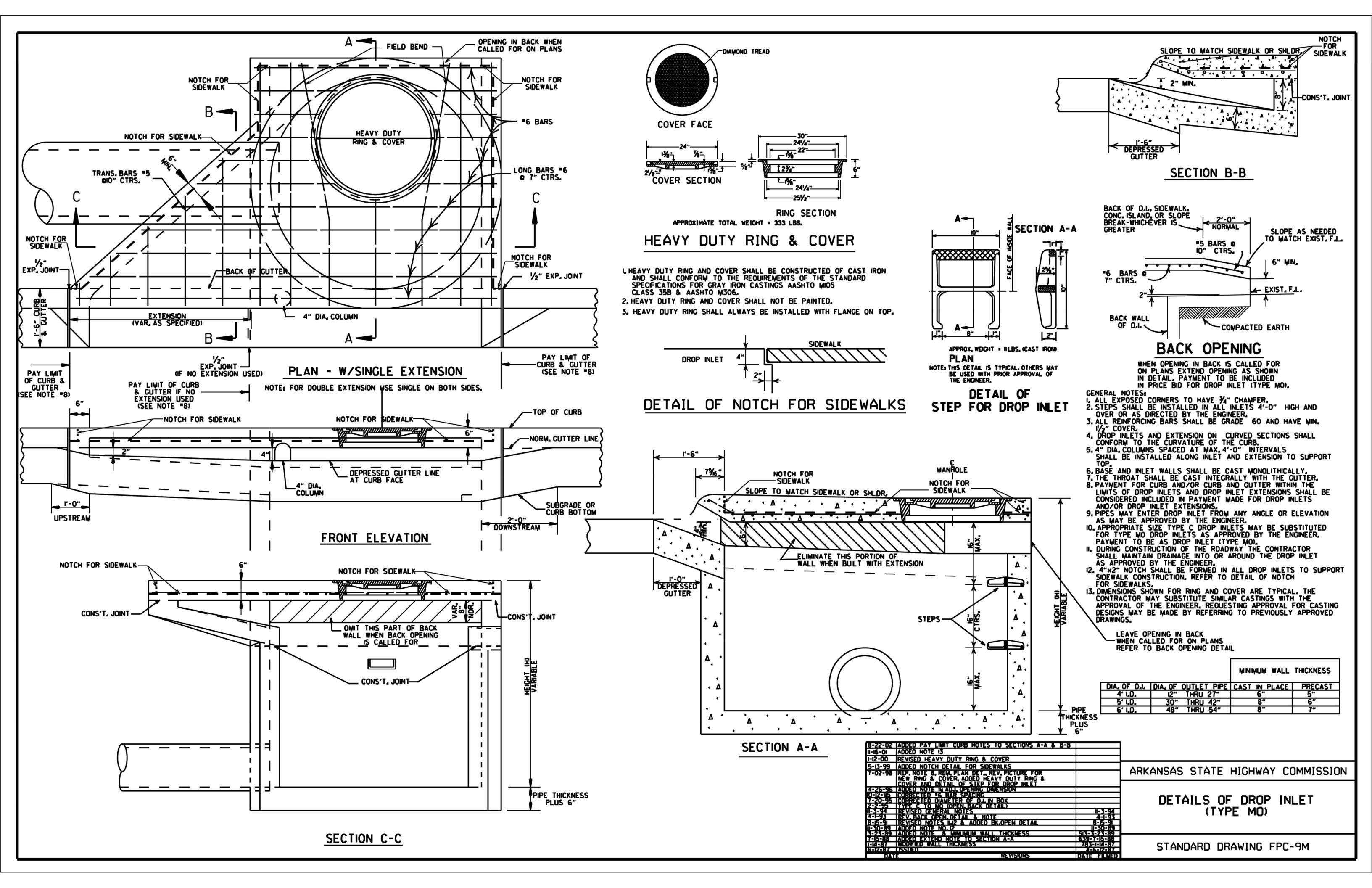
EQUIV.	• SF	• R		
	AASHTO ₩ 206	AHD Nominal	AASHTO ₩ 206	N
		INCHES		
15	18	18	П	
18	22	22	131/2	
21	26	26	151/2	
24	28 ¹ /2	29	18	
30	361/4	36	221/2	
36	43¥4	44	26%	
42	51 <mark>/</mark> 8	51	31%	
48	581/2	59	36	
54	65	65	40	
60	73	73	45	

D. DIA.	GAUGE	۸ ا" <u>+</u>	B. Max.	н I″ <u>+</u>	L 1½″±	₩ 2″ <u>+</u>	S
				INCHES			
12	16	6	6	6	21	24	2 ¹ /2:1
15	16	7	8	6	26	30	2 ¹ /21
18	16	8	10	6	31	36	2 ¹ /21
21	16	9	12	6	36	42	2 ¹ /2 ¹
24	16	10	13	6	41	48	2 ¹ /21
30	14	12	16	8	51	60	21/21
36	14	14	19	9	60	72	21/21
42	12	16	22	11	69	84	21/2:1
48	12	18	27	12	78	90	21/2:1
54	12	18	30	12	84	102	2:
60	12	18	33	12	87	4	I Yal
66	12	18	36	12	87	120	I <mark>/</mark> 21
72	12	18	39	12	87	126	I 1/3:I

				- -					
	SPAN	RISE	۰ ^۴ ±	B Max₌	н !" <u>+</u>	Ľ ⊮∕₂″±	₩ 2‴ <u>+</u>	s	GAUGE
				INCHE:	S				
15**	17	13	7	9	6	19	30	21/2:1	16
18"	21	15	7	10	6	23	36	21/21	16
21"	24	18	8	12	6	28	42	21/2:1	16
24"	28	20	9	14	6	32	48	21/21	16
30"	35	24	10	16	6	39	60	21/21	14
36"	42	29	12	18	8	46	75	21/21	14
42"	49	33	13	21	9	53	85	21/21	12
48"	57	38	18	26	12	63	90	21/21	12
54"	64	43	18	30	12	70	102	21/41	12
60"	71	47	18	33	12	77	4	21/41	12







AR	ARCH PIPE DIMENSIONS					
EQUIV.	SP	AN	RI	SE		
DIA.	AASHTO M 206	ARDOT NOMINAL	AASHTO M 206	ARDOT NOMINAL		
INCHES		INC	HES			
15 18 21 24 30 36 42 48 54 60 72 84 90 96 108 120 132	18 22 26 28 ¹ / ₂ 36 ¹ / ₄ 43 ³ / ₈ 51 ¹ / ₈ 58 ¹ / ₂ 65 73 88 102 115 122 138 154 168 ³ / ₄	18 22 26 29 36 44 51 59 65 73 88 102 115 122 138 154 169	$ \begin{array}{c} 11\\ 13\frac{1}{2}\\ 15\frac{1}{2}\\ 18\\ 22\frac{1}{2}\\ 26\frac{1}{8}\\ 31\frac{1}{8}\\ 36\\ 40\\ 45\\ 54\\ 62\\ 72\\ 77\frac{1}{2}\\ 87\frac{1}{8}\\ 96\frac{7}{8}\\ 106\frac{1}{2}\end{array} $	11 14 16 18 23 27 31 36 40 45 54 62 72 77 87 97 107		

REINFORCED CONCRETE

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE DIMENSIONS

1			101010
	EQUIV.	AASHT(D M 207
	DIA.	SPAN	RISE
	INCHES	INC	HES
	18	23	14
	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	98	63
	84	106	68

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN + 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M206.

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

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

		CLASS O	F 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.

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.(f)(I).

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 PIPE.

- LEGEND -

D, =	NORMAL INSIDE DIAMETER OF PIPE
Do =	OUTSIDE DIAMETER OF PIPE
H =	FILL COVER HEIGHT OVER PIPE (FEET)
MIN. =	MINIMUM
=	UNDISTURBED 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 CILL VERTS

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

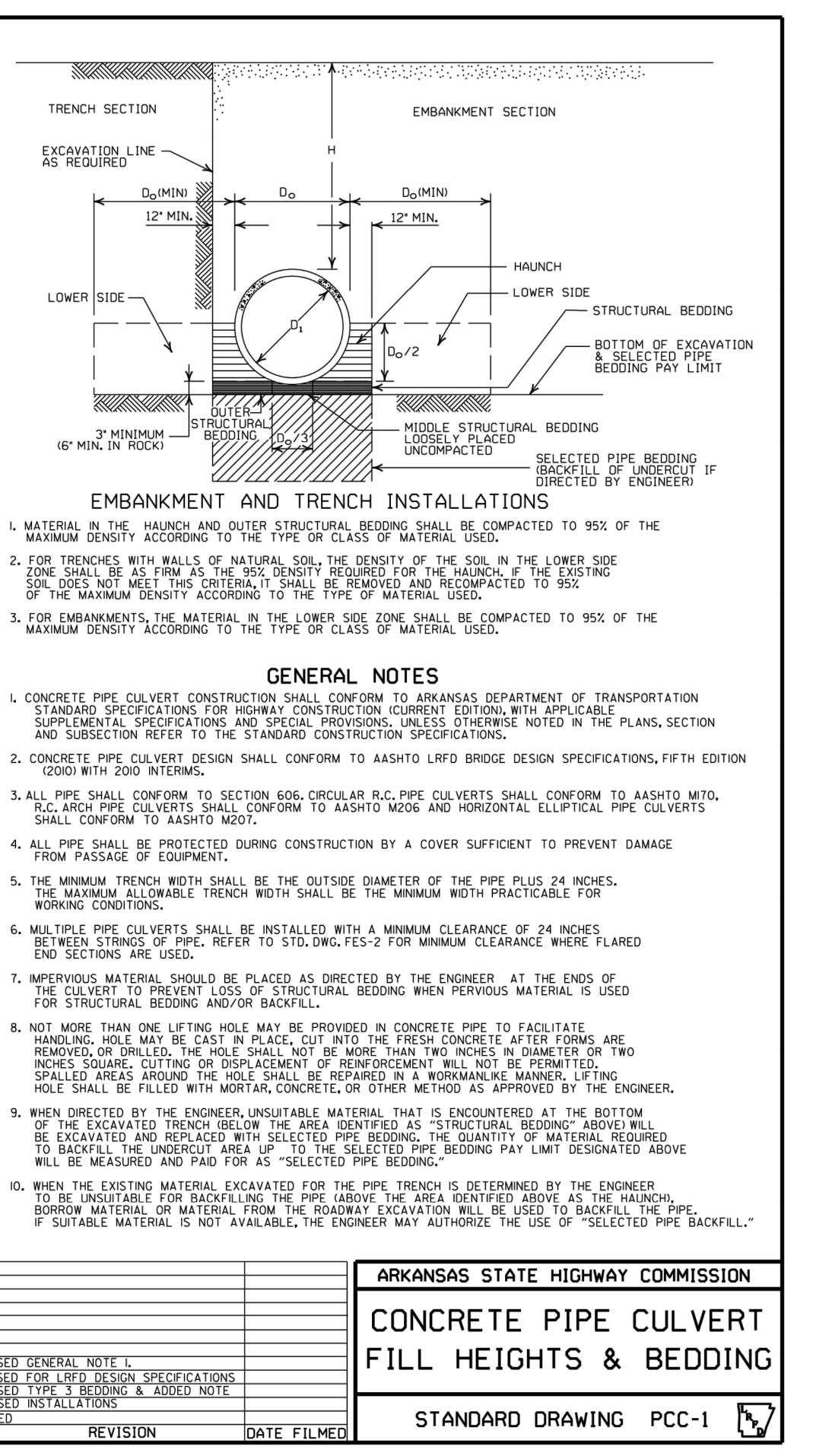
NOTE: IF FILL HEIGHT EXCEEDS 50 FEET, A SPECIAL DESIGN CONCRETE PIPE WILL BE REQUIRED USING TYPE 1 INSTALLATION.

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

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

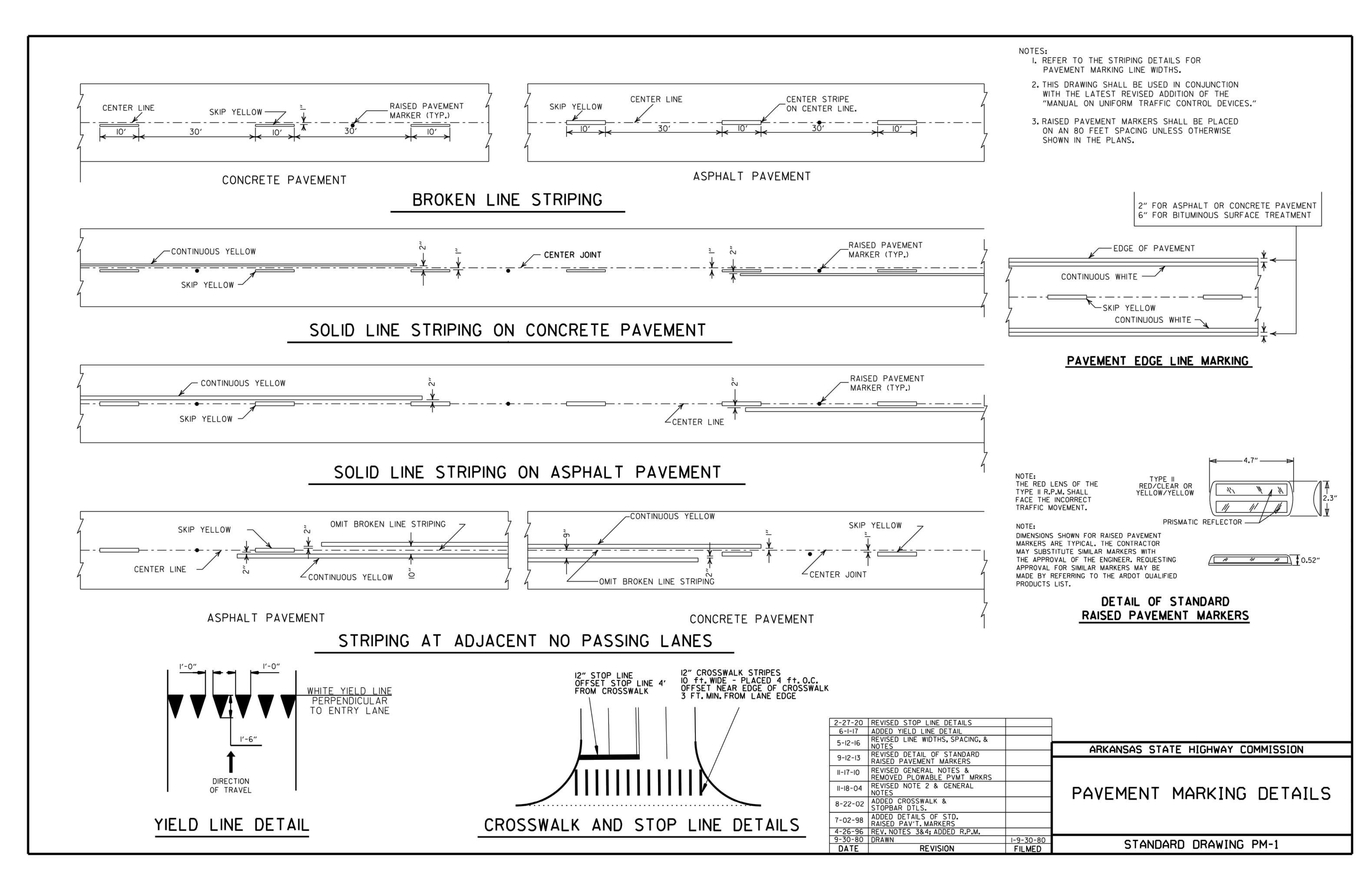
NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

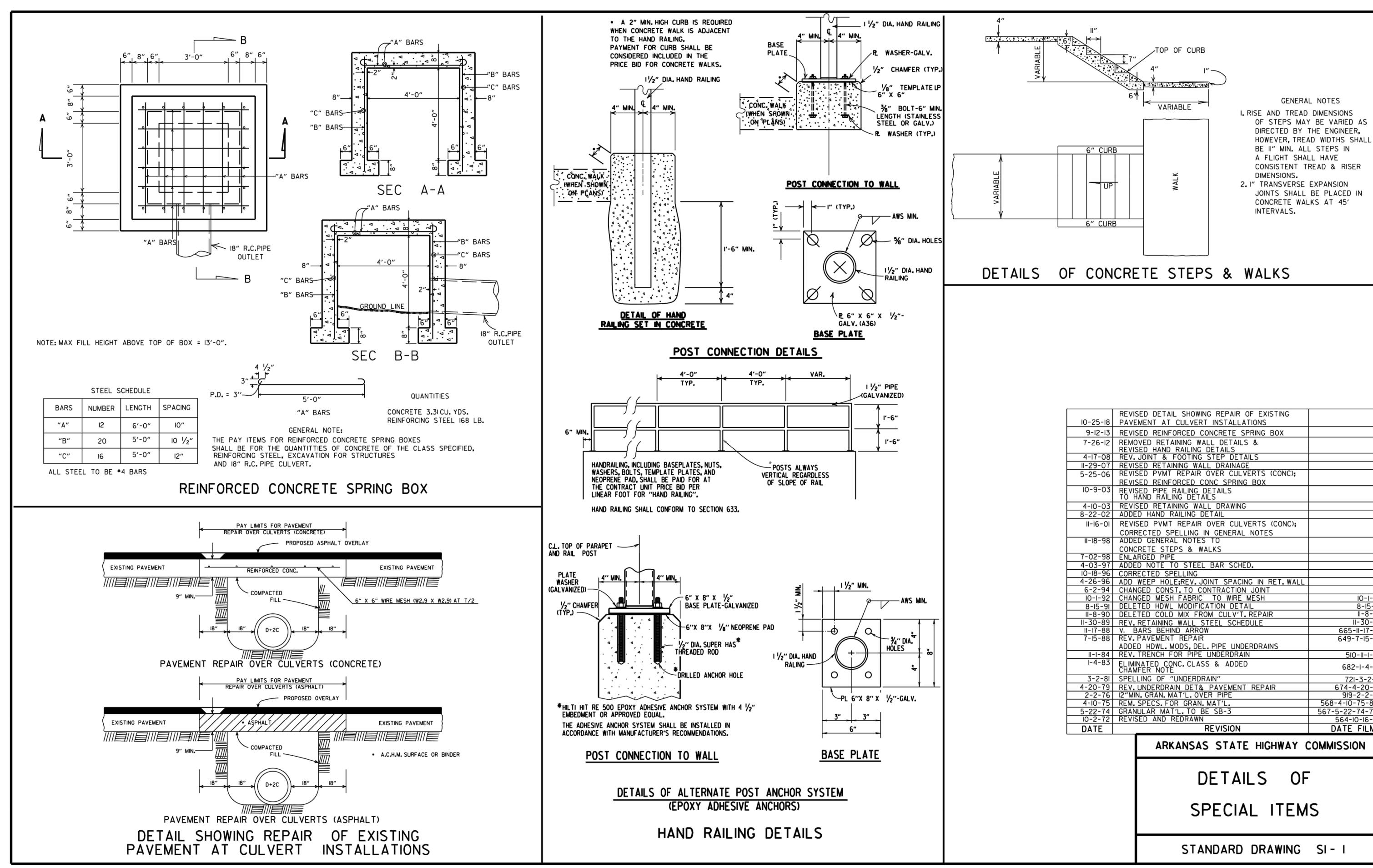




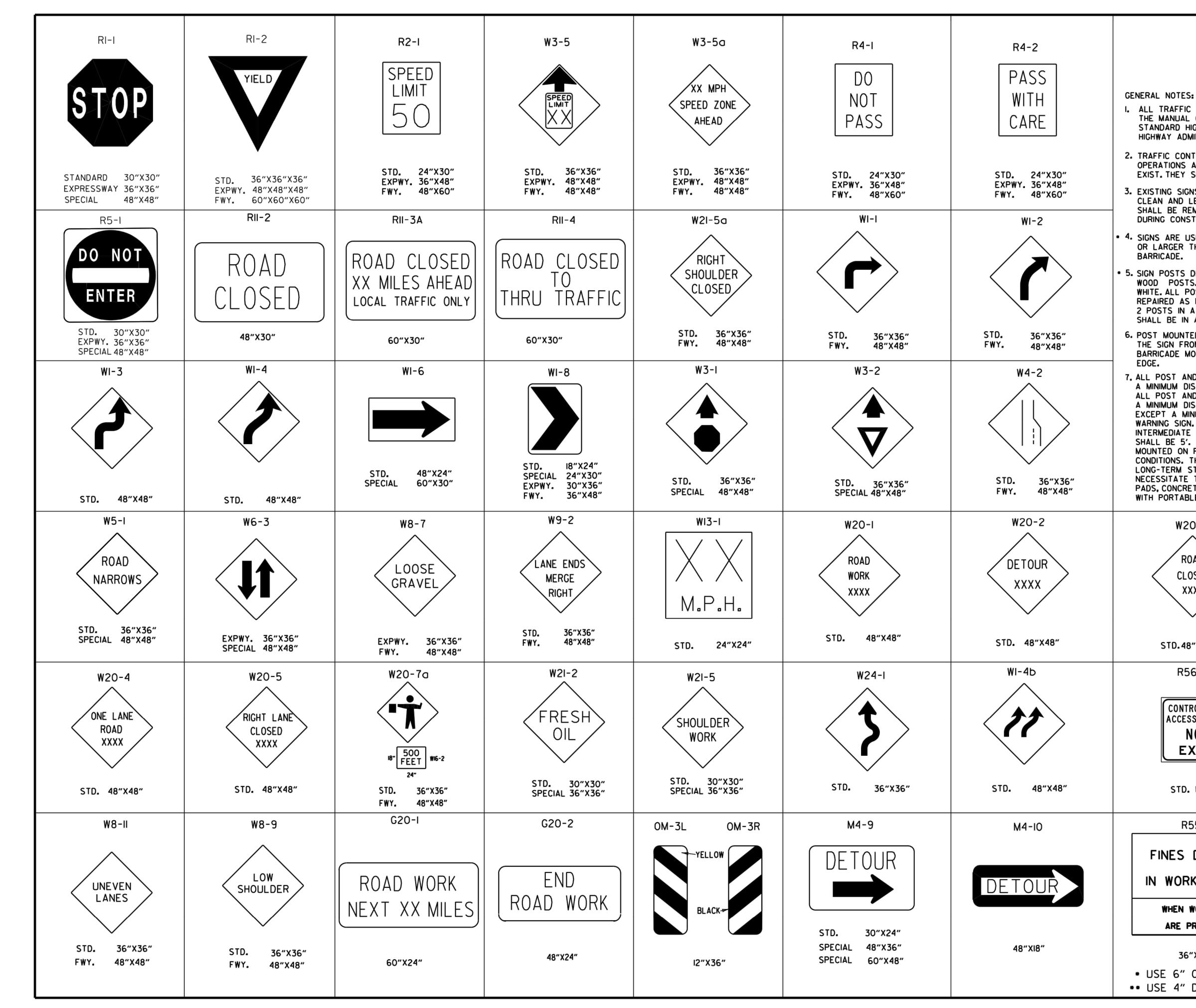
- WORKING CONDITIONS.
- END SECTIONS ARE USED.

2-27-14 REVISED GENERAL NOTE I.	
12-15-11 REVISED FOR LRFD DESIGN	SPECIFICATI
5-18-00 REVISED TYPE 3 BEDDING &	ADDED NO
3-30-00 REVISED INSTALLATIONS	
II-06-97 ISSUED	
DATE REVISIO	IN





9-12-13 REVISED REINFORCED CONCRETE SPRING BOX 7-26-12 REMOVED RETAINING WALL DETAILS & REVISED HAND RAILING DETAILS REVISED 4-17-08 REV. JOINT & FOOTING STEP DETAILS II-29-07 REVISED RETAINING WALL DRAINAGE 5-25-06 REVISED PETAIL CONC SPRING BOX 10-9-03 REVISED PER ALLING DETAILS 10-9-03 REVISED RETAINING WALL DRAWING 8-22-02 ADDED HAND RAILING DETAIL 11-16-01 REVISED PVMT REPAIR OVER CULVERTS (CONC); CORRECTED SPELLING IN GENERAL NOTES 11-18-98 ADDED GENERAL NOTES TO CONCRETE STEPS & WALKS CONCRETE STEPS & WALKS 7-02-98 ENLARGED PIPE 10-18-96 CORRECTED SPELLING 4-26-96 ADD WEEP HOLEREV, JOINT SPACING IN RET. WALL 6-2-94 CHANGED CONST. TO CONTRACTION JOINT 10-1-92 CHANGED MESH FABRIC TO WIRE MESH 10-1-92 8-15-91 DELETED HOWL MODIFICATION DETAIL 8-15-91 90 DELETED OLOL MIX FROM CULVT. REPAIR 11-8-90 11-17-88 N. BARS BEHIND ARROW 665-11-17-88 7-15-88 REV. RETAINING WALL STEEL SCHEDULE 11-30-89 11-1-	10-25-18	PAVEMENT AT CULVERT INSTALLATIONS	
REVISED HAND RAILING DETAILS 4-17-08 REV. JOINT & FOOTING STEP DETAILS II-29-07 REVISED RETAINING WALL DRAINAGE 5-25-06 REVISED PWT REPAIR OVER CULVERTS (CONC); REVISED PIPE RAILING DETAILS 10-9-03 REVISED PRE RAILING DETAILS 4-10-03 REVISED PIPE RAILING DETAILS 4-10-03 REVISED PWT REPAIR OVER CULVERTS (CONC); CORRECTED SPELLING WALL DRAWING 8-22-02 ADDED HAND RAILING DETAIL 10-9-03 REVISED PWT REPAIR OVER CULVERTS (CONC); CORRECTED SPELLING IN GENERAL NOTES 11-16-01 REVISED PWT REPAIR OVER CULVERTS (CONC); CORRECTED SPELLING IN GENERAL NOTES 11-18-98 ADDED CENERAL NOTES TO CONCRETE STEPS & WALKS CONCRETE STEPS & WALKS 7-02-98 ENLARCED PIPE 4-03-97 ADDED NOTE TO STEEL BAR SCHED. 10-18-96 CORRECTED SPELLING 4-26-96 ADD WEEP HOLE;REV. JOINT SPACING IN RET. WALL 6-2-94 CHANGED CONST. TO CONTRACTION JOINT 10-1-92 CHANGED MESH FABRIC TO WIRE MESH 10-1-92 8-15-91 DELETED HOW MODIFICATION DETAIL 8-15-91 8-15-91 DELETED HOW MODE DETAIL 8-15-91 11-17-84 V. BARS BEHIND ARROW	9-12-13	REVISED REINFORCED CONCRETE SPRING BOX	
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			AHEAD

I. ALL TRAFFIC CONTROL DEVICES USED ON ROAD CONSTRUCTION SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. LATEST EDITION. AND TO THE STANDARD HIGHWAY SIGNS, LATEST EDITION, OR AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION.

2. TRAFFIC CONTROL DEVICES SHALL BE SET UP JUST BEFORE THE START OF CONSTRUCTION OPERATIONS AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS NEEDED AND REMOVED THEREAFTER.

3. EXISTING SIGNS AND CONSTRUCTION SIGNS SHALL BE KEPT IN PROPER POSITION, AND BE CLEAN AND LEGIBLE AT ALL TIMES. SIGNS THAT DO NOT APPLY TO EXISTING CONDITIONS SHALL BE REMOVED. SIGNS THAT ARE DAMAGED, DEFACED, OR THAT ACCUMULATE DIRT DURING CONSTRUCTION SHALL BE CLEANED, REPAIRED, OR REPLACED.

 4. SIGNS ARE USUALLY MOUNTED ON A SINGLE POST, ALTHOUGH THOSE WIDER THAN 36" OR LARGER THAN 10 SQ.FT. SHALL BE MOUNTED ON TWO POSTS OR ABOVE A TYPE III

• 5. SIGN POSTS DIRECT BURIED IN SOIL SHALL BE 2 LB. MINIMUM CHANNEL POST OR 4"x4" WOOD POSTS. CHANNEL POSTS SHALL BE PAINTED GREEN. WOOD POSTS SHALL BE PAINTED WHITE. ALL POSTS SHALL BE NEATLY CONSTRUCTED, AND SHALL BE REPLUMBED, CLEANED, OR REPAIRED AS NEEDED FOR THE DURATION OF THE JOB. THERE SHALL NOT BE MORE THAN 2 POSTS IN A 7' PATH FOR WOOD OR CHANNEL POSTS. ANY CHANNEL POST SPLICE SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TC-3.

6. POST MOUNTED SIGNS IN RURAL AREAS SHALL BE CONSTRUCTED WITH THE NEAR EDGE OF THE SIGN FROM 6 TO 12 FEET FROM THE PAVEMENT EDGE. SIGNS IN URBAN AREAS AND BARRICADE MOUNTED SIGNS SHALL BE MOUNTED A MINIMUM OF 2 FEET FROM THE PAVEMENT

7. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN URBAN AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE. ALL POST AND BARRICADE MOUNTED SIGNS MOUNTED IN RURAL AREAS SHALL BE MOUNTED A MINIMUM DISTANCE OF 7' FROM THE BOTTOM OF THE SIGN TO THE ROADWAY SURFACE, EXCEPT A MINIMUM OF 6' SHALL BE USED WHEN MOUNTING AN ADVISORY SIGN BELOW A WARNING SIGN. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR INTERMEDIATE TERM STATIONARY WORK CONDITIONS. THE SIGNS MINIMUM MOUNTING HEIGHT SHALL BE 5'. RETROREFLECTIVE DEVICES SHALL BE USED. TEMPORARY SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS FOR SHORT-TERM, SHORT DURATION, AND MOBILE CONDITIONS. THEY SHALL BE NO LESS THAN ONE (I) FOOT ABOVE THE TRAVELED WAY. LONG-TERM STATIONARY SIGNS SHALL BE DIRECT BURIED IN SOIL, UNLESS CONDITIONS NECESSITATE THE USE OF PORTABLE SIGNS, OR AS APPROVED BY THE ENGINEER. CONCRETE PADS, CONCRETE OR ROCK BALLAST, OR OTHER SOLID MATERIALS SHALL NOT BE UTILIZED WITH PORTABLE SIGN SUPPORTS

ORTABLE SIGN SI	UPPORTS.	- • -				
W20-3		 FLAGGERS SHALL USE REFLECTORIZED STOP-SLOW PADDLES. FLAGS MAY BE USED ONLY FOR EMERGENCY SITUATIONS. 				
ROAD CLOSED	,	9. 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.				
	XXXX		IO. R55-I SIGNS SHALL BE PLACED AT LEAST I500' BUT NOT MORE THAN I MILE IN ADVANCE OF THE WORK ZONE. IF A SPEED LIMIT REDUCTION IS IN EFFECT, THE SIGN SHALL BE PLACED A MINIMUM OF 500' IN ADVANCE OF THE "REDUCED SPEED AHEAD" SIGN.			
STD.48"X48"		• NOTE: SUPPORTS FOR SIGNS, BARRICADES, AND				
R56-I			TI BU AS BI	ERTICAL PANELS THAT ARE DIFFERENT F HE REQUIREMENTS SHOWN IN NOTES 4 & JT MEET THE REQUIREMENTS OF MANUAL SSESSING SAFETY HARDWARE (MASH), WI E ACCEPTED. COMPLIANCE WITH THE	5. FOR LL	
CONTROLLED Access Hwy.			Sé	EQUIREMENTS OF MANUAL FOR ASSESSING AFETY HARDWARE (MASH) IS REQUIRED F _L PROJECTS.		
		ſ	II-07-I9	REVISED FOR MASH		
NO		ľ	4-13-17	DELETED RSP-I & ADDED W2I-5a		
EXIT		[9-2-15	REVISED REDUCED SPEED LIMIT AHEAD SIGNS REVISED ROAD WORK NEXT XX MILES		
		Ļ	12-15-11	REVISED W24-I		
			11-17-10	DELETED W8-9a & ADDED W8-9		
STD. 18"X18"		L	10-15-09	ADDED REFERENCE TO MASH & ADDED SIGN W24-I		
			4-17-08	REVISED SIGN DESIGNATIONS		
		Ļ	II-18-04	REVISED NOTES		
		ļ	10-9-03	REVISED NOTE I		
R55-I		Ļ	11-16-01	REVISED NOTE 7		
		ļ	9-28-00	REVISED NOTE		
	c	ļ	11-18-98	ADDED NOTE		
WORK ZONES		Ļ	6-26-97	REVISED NOTE 5		
		ŀ	4-03-97	REVISED NOTE 5		
		ŀ	10-18-96	ADDED CONTROLLED ACCESS HWY. SIGN & TO NOTE 7		
		ŀ	10-12-95	ADDED R55-I	6 0 05	
		ŀ	6-8-95	REVISED TO CORRECT SIGN ILLUSTRATIONS	6-8-95	
WHEN WORKERS		ŀ	2-2-95 8-15-91	REVISED PER PART VI, MUTCD SEPT. 3, 1993 DRAWN AND PLACED IN USE		
ARE PRESENT **		ŀ	DATE	REVISION	FILMED	
		ŀ	DATE	ARKANSAS STATE HIGHWAY COMMISSION		
36"X60"			STANDARD TRAFFIC CONTROLS			
				FOR HIGHWAY CONSTRUCTION		
6" C LETTERS						
4" D LETT	ERS			STANDARD DRAWING TC-I		

