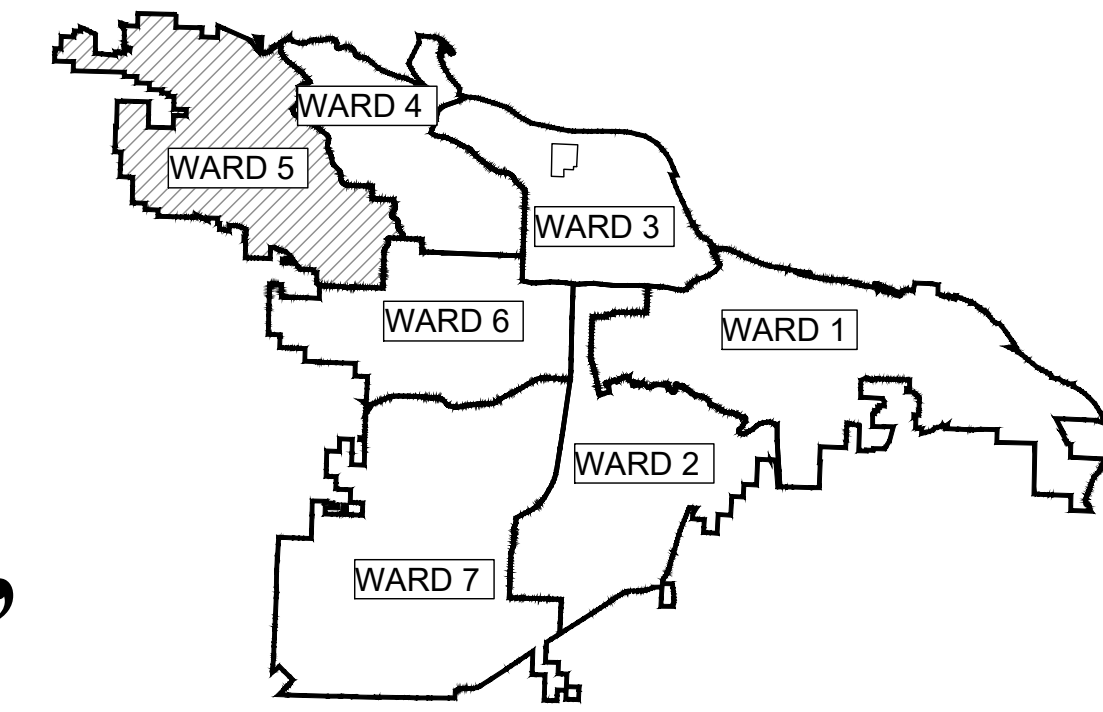


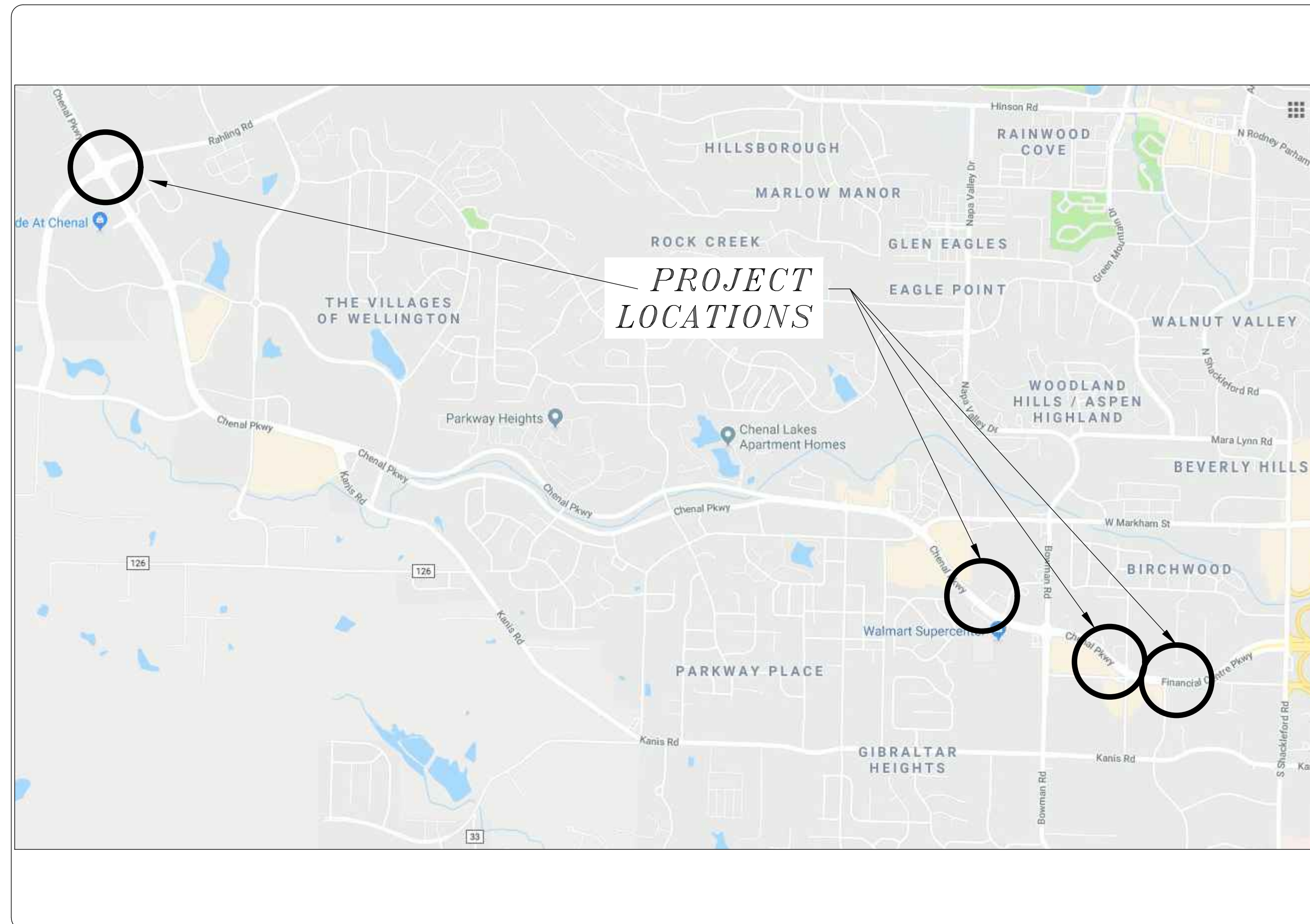
05-17-ST-225B CHENAL TRAFFIC

**CHENAL PARKWAY AT RAHLING RD, WESTHAVEN RD,
AUTUMN RD & EMBASSY SUITES DR.
90% SUBMITTAL**



PROJECT LOCATION - WARD 5

SHEET NO.	TITLE
C1	COVER SHEET
C2	GENERAL NOTES, LEGEND AND QUANTITIES
C3	CHENAL PARKWAY AT RAHLING RD PLAN
C4	CHENAL PARKWAY AT RAHLING RD - TRAFFIC SIGNAL LAYOUT
C5	CHENAL PARKWAY AT RAHLING RD - TRAFFIC SIGNAL WIRING DIAGRAM
C6	CHENAL PARKWAY AT RAHLING RD - CROSS SECTIONS
C7	CHENAL PARKWAY AT WESTHAVEN RD PLAN
C8	CHENAL PARKWAY AT AUTUMN RD PLAN
C9	CHENAL PARKWAY AT EMBASSY SUITES RD PLAN
C10	SITE DETAILS



**2019-2021
BOND PROGRAM**

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 WEST MARKHAM STREET
LITTLE ROCK, ARKANSAS 72201



10411 W. Markham St. Suite 320.
Little Rock, Arkansas 72205
MAIN (501) 801-2690

REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
CHENAL TRAFFIC

COVER SHEET

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

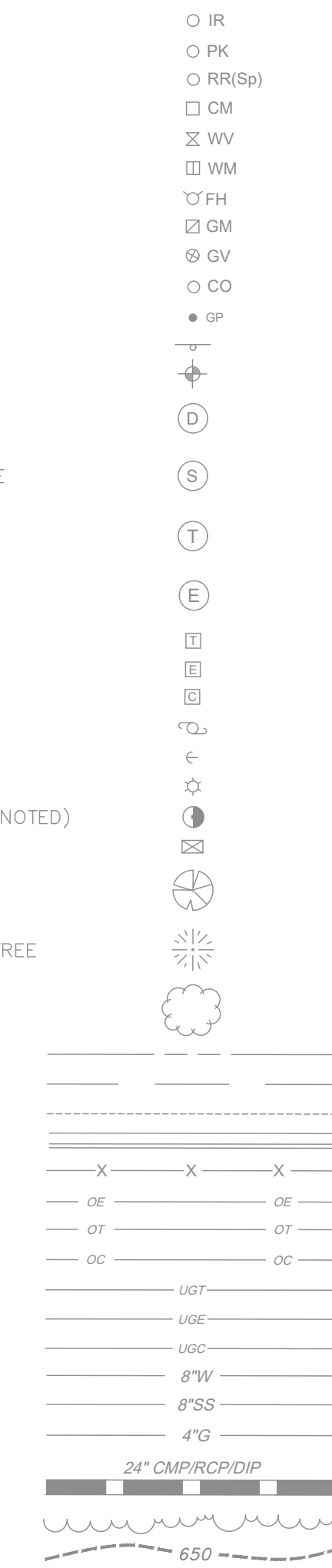
90% SUBMITTAL
REVIEW ONLY

DRAWN BY
LCJ
DESIGNED
BLV
CHECKED
BLV
DATE
04-02-19
SCALE
N.T.S.
PROJECT NO.
05-17-ST-225B
SHEET NO.
C1

Item Number	Description	Unit	QUAN.
2.01	SITE PREPARATION	LS	1
3.01	UNCLASSIFIED EXCAVATION	CY	530
3.06	BORROW MATERIAL	CY	397
3.40	TOPSOIL	CY	50
4.01	AGGREGATE BASE COURSE	TON	244
5.01	TACK COAT	GAL	149
6.01	ACHM SURFACE COURSE	TON	545
6.20	ACHM BINDER COURSE	TON	817
8.03	CONCRETE CURB AND GUTTER (CLASS 3)	LF	467
14.01	SOLID SODDING, BERMUDA	SY	500
16.01	MAINTENANCE OF TRAFFIC	LS	1
18.50	ACCESS RAMP	SF	480
18.55	WATER FOR DUST CONTROL	GAL	3000
19.01	FINAL CLEANUP	LS	1
24.06	SEDIMENT BARRIER, SILT FENCE (SD1)	EA	10
24.11	SILT FENCE - TYPE A (SFA)	LF	150
26.10	TRENCH & EXCAVATION SAFETY	LS	1
27.10	COLD MILLING ASPHALT PAVEMENT	SY	500
501.01	PORTLAND CEMENT CONCRETE PAVEMENT	SY	200
719.04W	THERMOPLASTIC PAVEMENT MARKING WHITE (4")	LF	500
719.12W	THERMOPLASTIC PAVEMENT MARKING WHITE (12")	LF	15.00
719.24W	THERMOPLASTIC PAVEMENT MARKING WHITE (24")	LF	230.00
719.50	THERMOPLASTIC PAVEMENT MARKING WORDS	EA	1.00
719.60	THERMOPLASTIC PAVEMENT MARKING ARROWS	EA	1.00
719.80	THERMOPLASTIC PAVEMENT MARKING (YIELD LINES)	LF	60.00

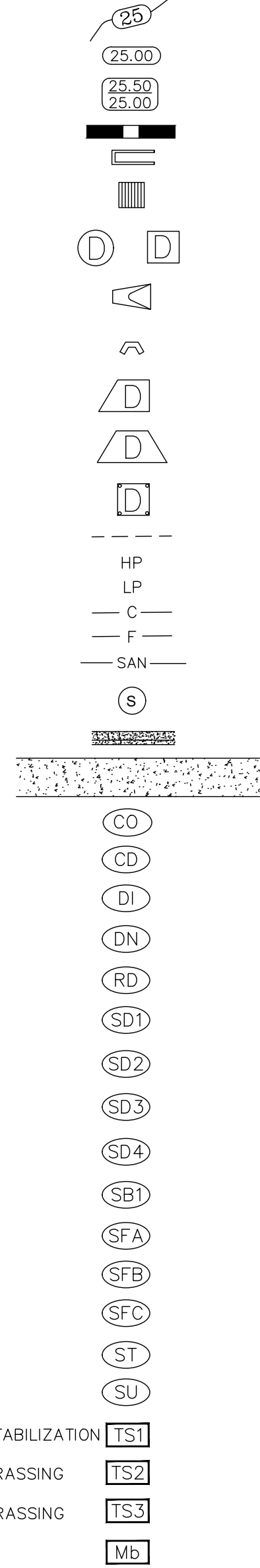
EXISTING

- IRON ROD ○ IR
- PK NAIL ○ PK
- R.R. SPIKE ○ RR(Sp)
- CONC. MONUMENT □ CM
- WATER VALVE X WV
- WATER METER □ WM
- FIRE HYDRANT ○ FH
- GAS METER □ GM
- GAS VALVE ⊗ GV
- CLEAN-OUT ○ CO
- GUARD POST (BOLLARD) ● GP
- SIGN POST
- BENCHMARK
- STORM SEWER MANHOLE (D)
- SANITARY SEWER MANHOLE (S)
- TELEPHONE MANHOLE (T)
- ELECTRIC MANHOLE (E)
- TELEPHONE BOX
- ELECTRIC BOX
- CABLE BOX
- UTILITY POLE
- GUY WIRE
- LIGHT POLE
- POST OR POLE (TYPE AS NOTED)
- MAILBOX
- DECIDUOUS TREE
- EVERGREEN/CONIFEROUS TREE
- BUSH
- PROPERTY LINE
- SETBACK LINE
- EASEMENT LINE
- CURB
- FENCE
- OVERHEAD ELECTRIC
- OVERHEAD TELEPHONE
- OVERHEAD CABLE
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRIC
- UNDERGROUND CABLE
- WATER LINE
- SEWER LINE
- GAS LINE
- STORM SEWER/CULVERT
- EDGE OF WOODS
- CONTOUR LINE



PROPOSED

- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED SPOT CURB ELEVATION
- STORM SEWER – PIPE
- STORM SEWER – MITERED END SECTION
- STORM SEWER – GRATE INLET
- STORM SEWER – JUNCTION BOX
- STORM SEWER – FLARED END SECTION
- STORM SEWER – HEADWALL
- STORM SEWER – SINGLE WING
- STORM SEWER – DOUBLE WING
- STORM SEWER – AREA INLET
- GRADE BREAK LINE
- HIGH POINT
- LOW POINT
- OUT LINE
- FILL LINE
- SANITARY SEWER PIPE
- SANITARY SEWER MANHOLE
- PROPOSED CURB
- PROPOSED CONCRETE
- CONSTRUCTION – ENTRANCE/EXIT
- CHECK DAM
- DIVERSION BERM
- DOWNDRAIN STRUCTURE – TEMPORARY
- ROCK DAM
- SEDIMENT BARRIER – SILT FENCE
- SEDIMENT BARRIER – GRAVEL RING
- SEDIMENT BARRIER – BLOCK & GRAVEL
- SEDIMENT BARRIER – BLOCK
- TEMPORARY SEDIMENT BASIN
- SILT FENCE – TYPE A
- SILT FENCE – TYPE B
- SILT FENCE – TYPE C
- STORM DRAIN OUTLET PROTECTION
- SURFACE ROUGHENING
- DISTURBED AREA STABILIZATION – TEMPORARY STABILIZATION
- DISTURBED AREA STABILIZATION – TEMPORARY GRASSING
- DISTURBED AREA STABILIZATION – PERMANENT GRASSING
- MATTING/BLANKETS



REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
CHENAL VALLEY TRAFFIC
GENERAL NOTES, LEGEND AND QUANTITIES

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201



90% SUBMITTAL REVIEW ONLY

DRAWN BY
LCJ
DESIGNED
BLV
CHECKED
BLV
DATE
04-02-19
SCALE
N.T.S.
PROJECT NO.
05-17-ST-225B
SHEET NO.
C2



REVISIONS	DATE

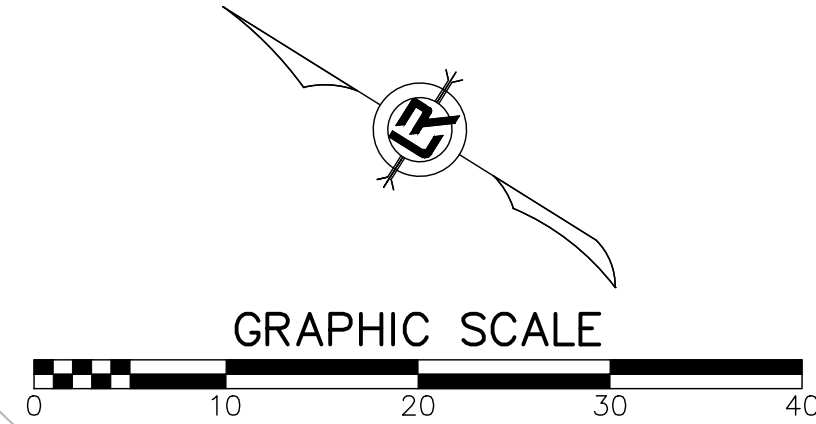
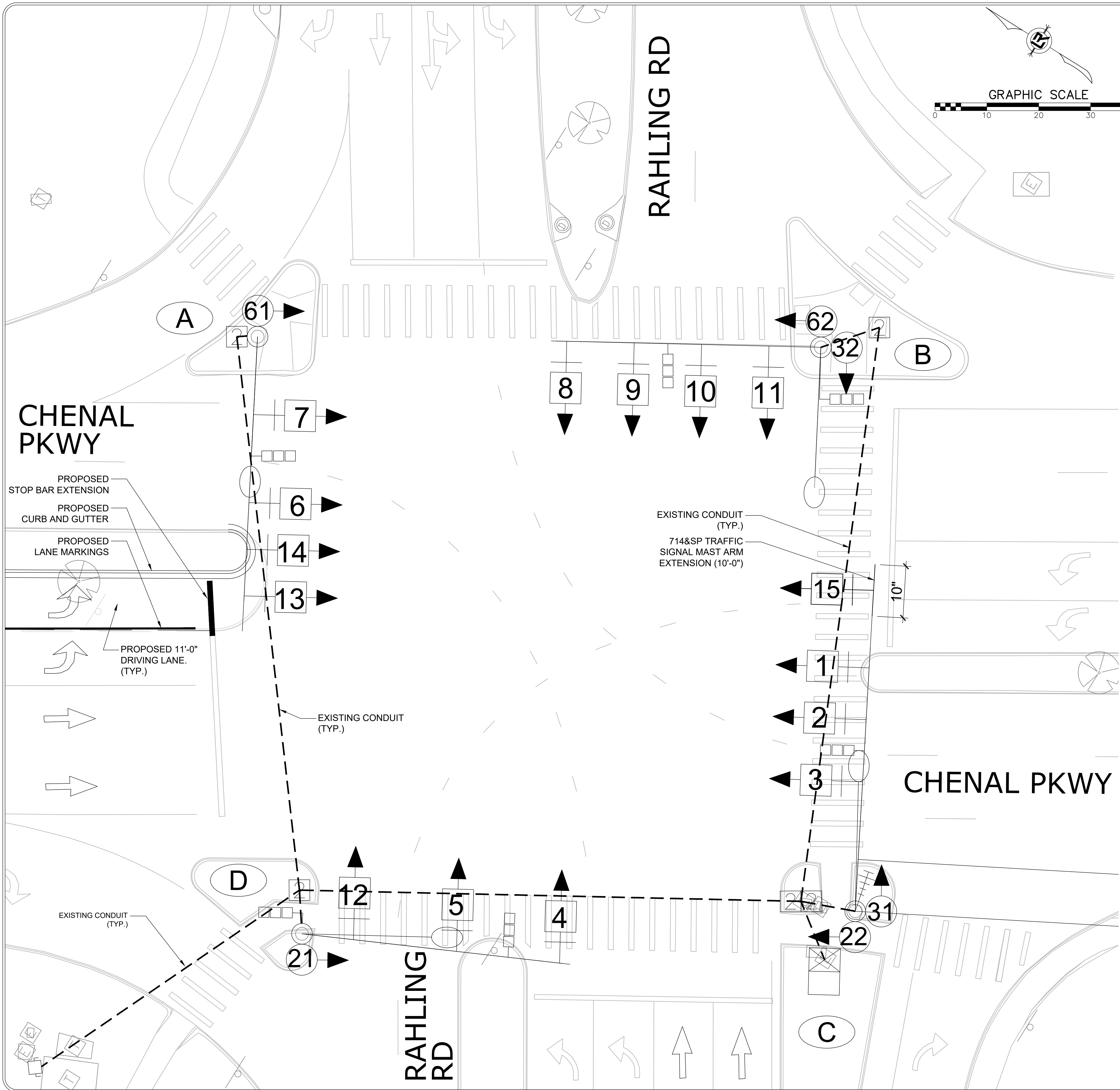
CITY OF LITTLE ROCK, ARKANSAS
 CHENAL VALLEY TRAFFIC
 CHENAL PARKWAY AT RAHLING RD PLAN

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

90% SUBMITTAL
 REVIEW ONLY

DRAWN BY
 LCJ
 DESIGNED
 BLV
 CHECKED
 BLV
 DATE
 04-02-19
 SCALE
 1" = 20'-0"
 PROJECT NO.
 05-17-ST-225B
 SHEET NO.
C3

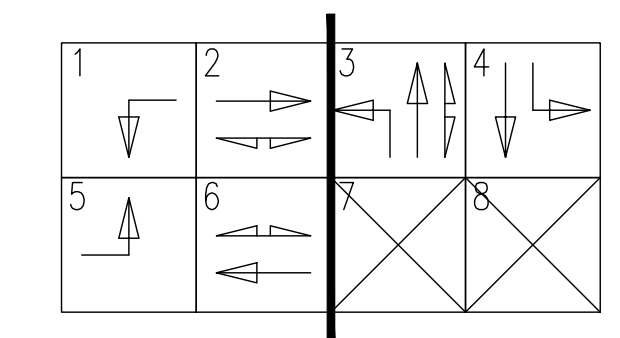




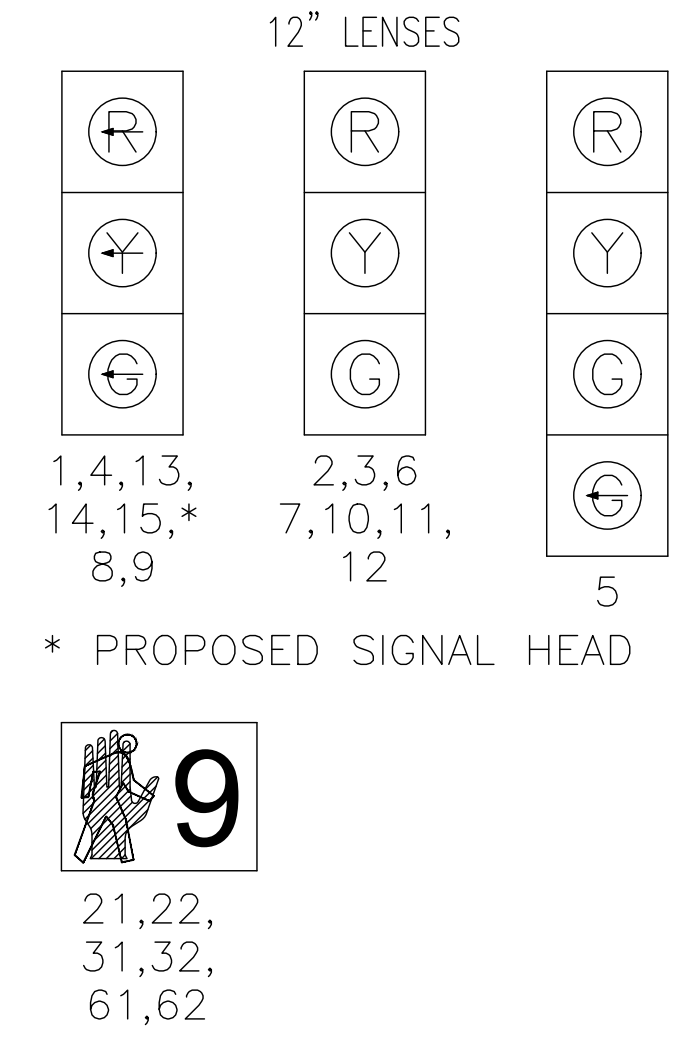
LEGEND

BASE MTD. CONTROLLER	
SIGNAL HEAD	
PEDESTRIAN SIGNAL HEAD	
LUMINAIRE (TYPE 2)	
1"Ø PVC CONDUIT (TYP)	
TYPE-2 PULL BOX	
PEDESTRIAN BUTTON(S)	
VIDEO DETECTOR	
SERVICE DISCONNECT	
TRAFFIC SIGNAL MAST ARM AND POLE W/ FOUNDATION	
6'X6' PULSE LOOP(TYP)	
6'X20' PRESENCE LOOP(TYP)	
ANTENNA	

EXISTING PHASING DIAGRAM



EXISTING SIGNAL FACE



EXISTING POLE SCHEDULE

POLE	MAST ARM LENGTH	VERTICAL SHAFT LENGTH	LUMINAIRE ARM LENGTH	ORIENTATION ANGLE CLOCKWISE FROM HANDHOLE
A	55'	35'	25'	180°&180°
B	50'	35'	25'	180°
**C	-55'-65'	35'	25'	180°&180°
D	50'	35'	25'	180°&90°

** MAST ARM LENGTH INCLUDES 10'-0" EXTENSION.



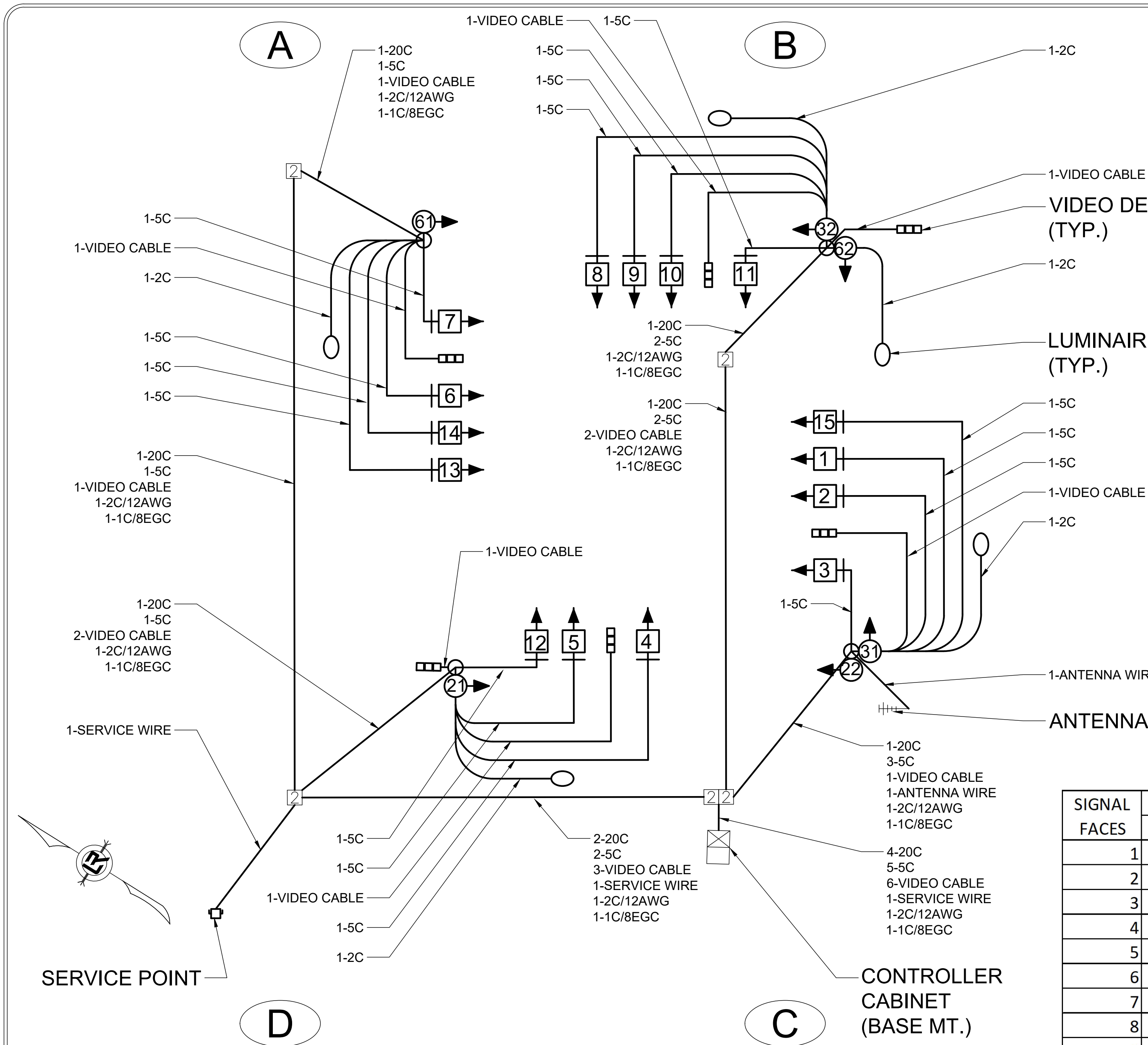
REVISIONS **DATE**

CITY OF LITTLE ROCK, ARKANSAS
CHENAL VALLEY TRAFFIC
CHENAL PARKWAY AT RAHLING RD -
TRAFFIC SIGNAL LAYOUT

DEPARTMENT OF PUBLIC WORKS
CIVIL ENGINEERING
701 W. MARKHAM
LITTLE ROCK, ARKANSAS 72201

90% SUBMITTAL
REVIEW ONLY

DRAWN BY
LCJ
DESIGNED
BLV
CHECKED
BLV
DATE
04-02-19
SCALE
AS SHOWN
PROJECT NO.
05-17-ST-225B
SHEET NO.
C4



LEGEND

BASE MTD. CONTROLLER	
SIGNAL HEAD	
PEDESTRIAN SIGNAL HEAD	
LUMINAIRE (TYPE 2)	
1"Ø PVC CONDUIT (TYP)	
TYPE-2 PULL BOX	
PEDESTRIAN BUTTON(S)	
VIDEO DETECTOR	
SERVICE DISCONNECT	
TRAFFIC SIGNAL MAST ARM AND POLE W/ FOUNDATION	
6'X6' PULSE LOOP(TYP)	
6'X20' PRESENCE LOOP(TYP)	
ANTENNA	

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	QUANTITY	UNIT
601	MOBILIZATION	1 1/2	L.S.
603	MAINTENANCE OF TRAFFIC	1 1/2	L.S.
706&SP	TRAFFIC SIGNAL HEAD, LED (3 SECT./ 1 WAY)	1 -6-	EACH
708	TRAFFIC SIGNAL CABLE (5C/14AWG)	100680	LIN. FT.
714&SP	TRAFFIC SIGNAL MAST ARM EXTENSION (10')	1	EACH

EXISTING INTERVAL CHART

SIGNAL FACES	INTERVAL												FLASH SEQ.
	1+5	CLR	1+6	CLR	2+5	CLR	2+6	CLR	3	CLR	4	CLR	
1	←G	*	←R	←R	←G	*	←R	←R	←R	←R	←R	←R	←R
2	R	R	R	R	G	**	G	**	R	R	R	R	R
3	R	R	R	R	G	**	G	**	R	R	R	R	R
4	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←Y	←R
5	R	R	R	R	R	R	R	R	R	R	G/←G	Y	R
6	R	R	G	**	R	R	G	**	R	R	R	R	R
7	R	R	G	**	R	R	G	**	R	R	R	R	R
8	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←Y	←R
9	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←Y	←R
10	R	R	R	R	R	R	R	R	R	R	G	Y	R
11	R	R	R	R	R	R	R	R	R	R	G	Y	R
12	R	R	R	R	R	R	R	R	R	R	G	Y	R
13	←G	*	←G	*	←R	←R	←R	←R	←R	←R	←R	←R	←R
14	←G	*	←G	*	←R	←R	←R	←R	←R	←R	←R	←R	←R
*15	←G	*	←R	←R	←G	*	←R	←R	←R	←R	←R	←R	←R
21	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	NA
22	DW	DW	DW	DW	W	FDW	W	FDW	DW	DW	DW	DW	NA
31	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	NA
32	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	NA
61	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	NA
62	DW	DW	W	FDW	DW	DW	W	FDW	DW	DW	DW	DW	NA

* DENOTES GREEN OR YELLOW ARROW DEPENDING ON NEXT PHASE
 ** DENOTES GREEN OR YELLOW BALL DEPENDING ON NEXT PHASE
 *** PROPOSED SIGNAL HEAD

REVISIONS **DATE**

CITY OF LITTLE ROCK, ARKANSAS
 CHENAL VALLEY TRAFFIC
 CHENAL PARKWAY AT RAHLING RD -
 TRAFFIC SIGNAL WIRING DIAGRAM

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

90% SUBMITTAL
 REVIEW ONLY

DRAWN BY
 LCJ
 DESIGNED
 BLV
 CHECKED
 BLV
 DATE
 04-02-19
 SCALE
 NO SCALE
 PROJECT NO.
 05-17-ST-225B
 SHEET NO.
C5



REVISIONS DATE

CITY OF LITTLE ROCK, ARKANSAS

CHENAL VALLEY TRAFFIC

CHENAL PARKWAY AT RAHLING RD - CROSS SECTIONS

DEPARTMENT OF PUBLIC WORKS

CIVIL ENGINEERING

701 W. MARKHAM

LITTLE ROCK, ARKANSAS 72201



90% SUBMITTAL REVIEW ONLY

DRAWN BY

BD

DESIGNED

BLV

CHECKED

BLV

DATE

04-02-19

SCALE

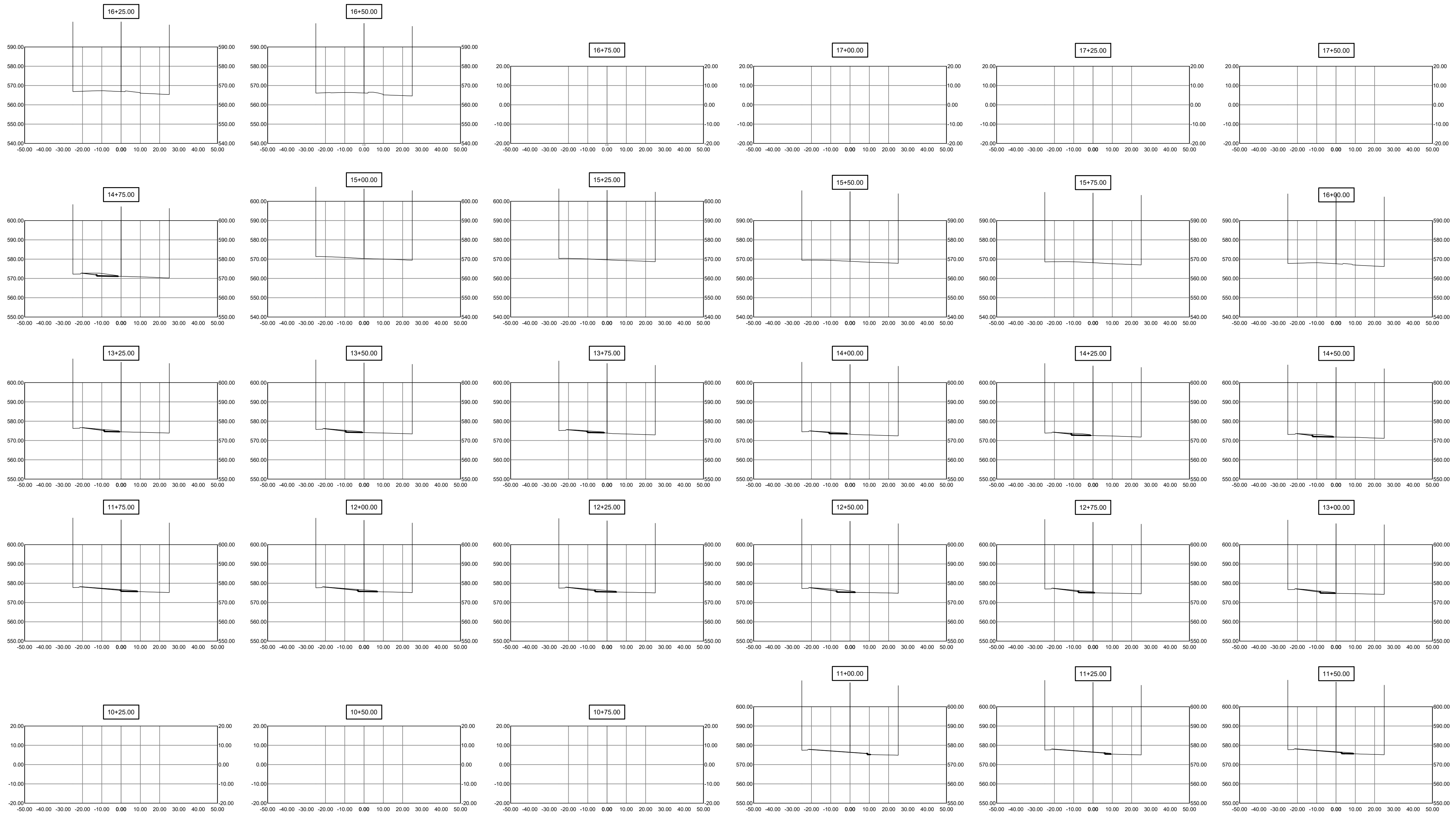
AS SHOWN

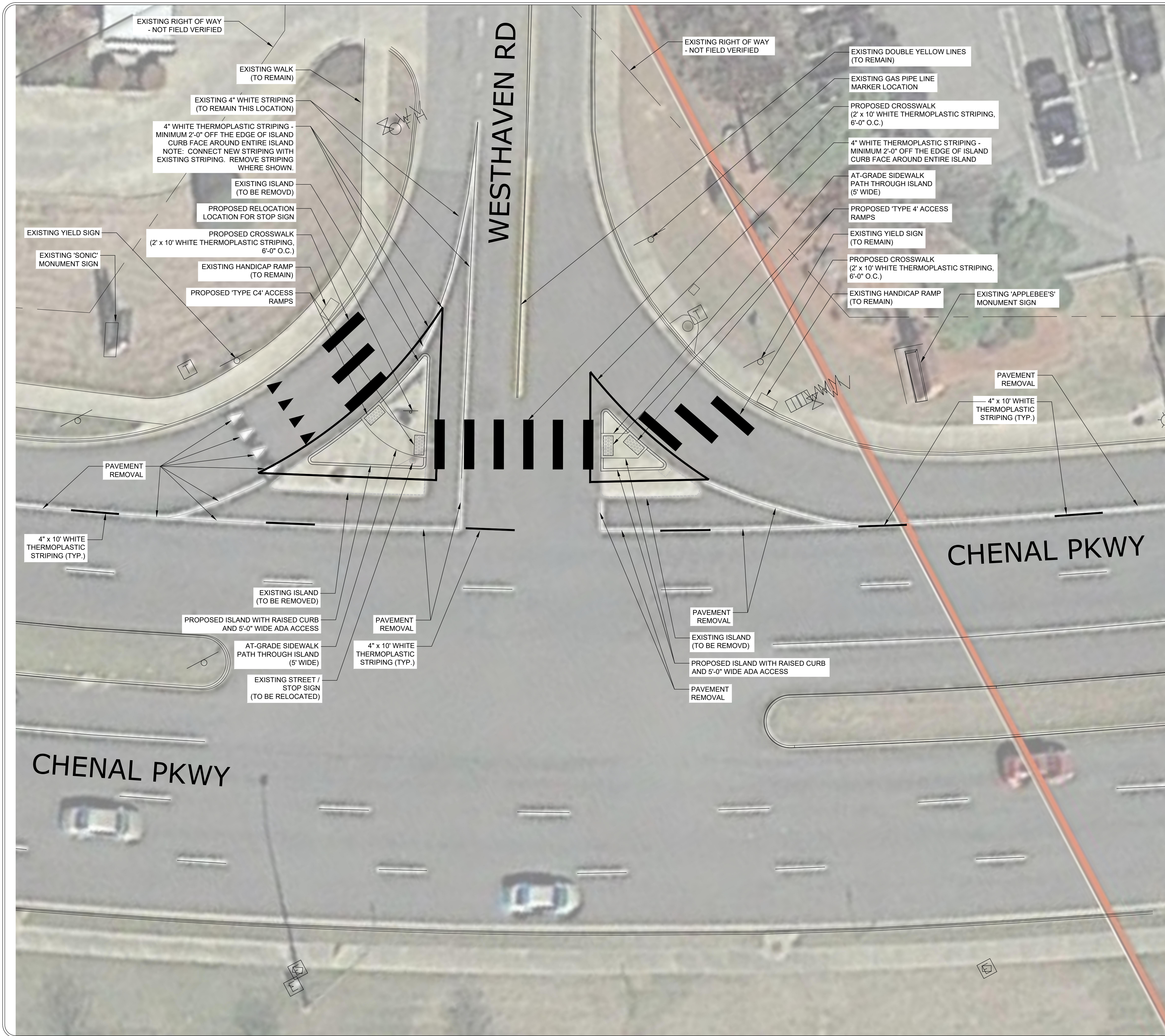
PROJECT NO.

05-17-ST-225B

SHEET NO.

C6

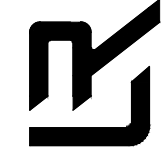




REVISIONS	DATE

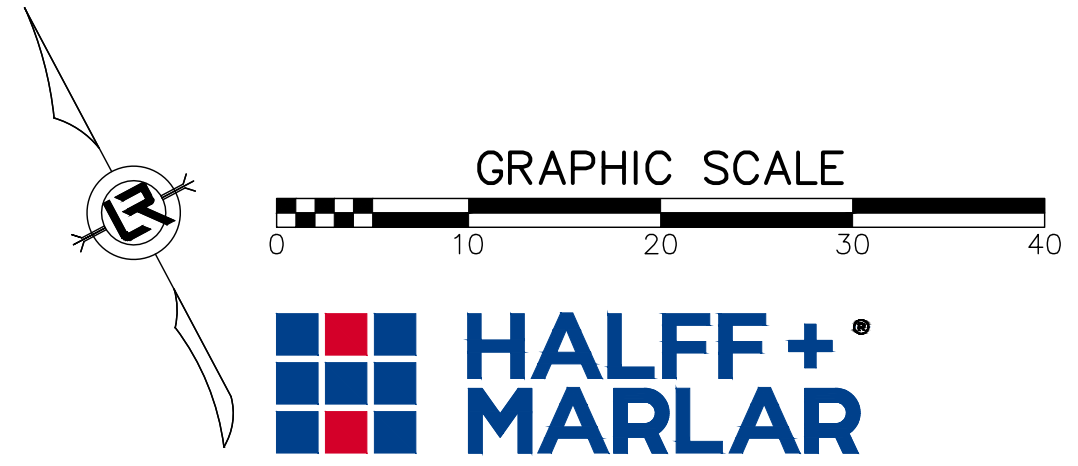
CITY OF LITTLE ROCK, ARKANSAS
CHENAL VALLEY TRAFFIC
CHENAL PARKWAY AT WESTHAVEN RD PLAN

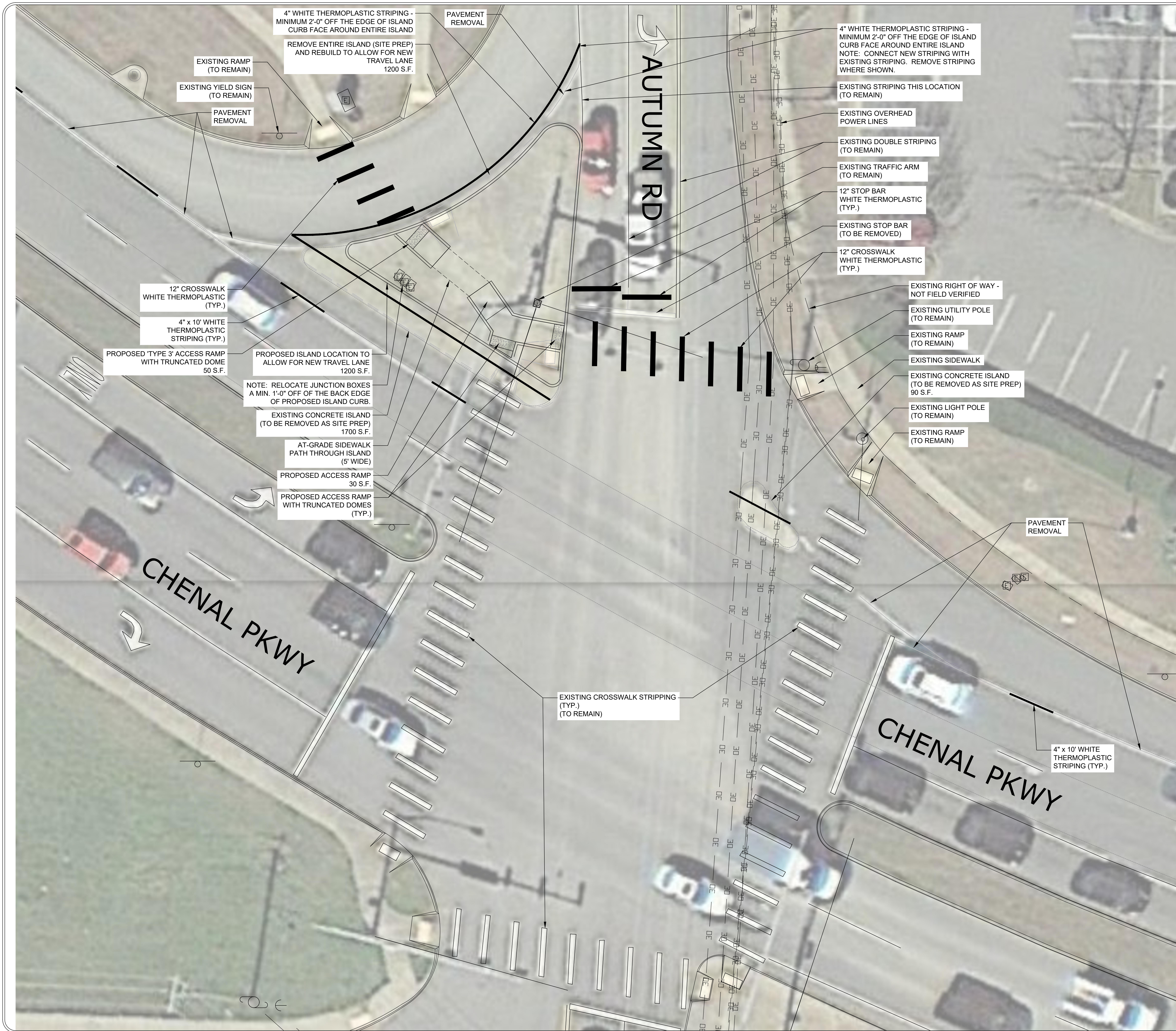
DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



**90% SUBMITTAL
 REVIEW ONLY**

DRAWN BY
 LCJ
 DESIGNED
 BLV
 CHECKED
 BLV
 DATE
 04-02-19
 SCALE
 1" = 10'-0"
 PROJECT NO.
 05-17-ST-225B
 SHEET NO.
C7

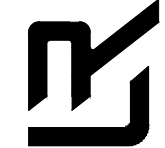




REVISIONS	DATE

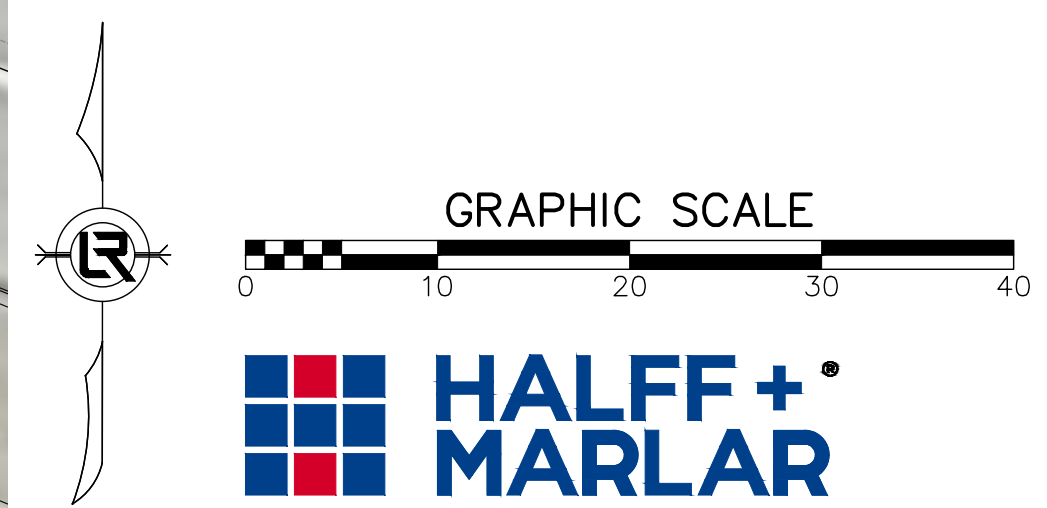
CITY OF LITTLE ROCK, ARKANSAS
CHENAL VALLEY TRAFFIC
 CHENAL PARKWAY AT AUTUMN RD PLAN

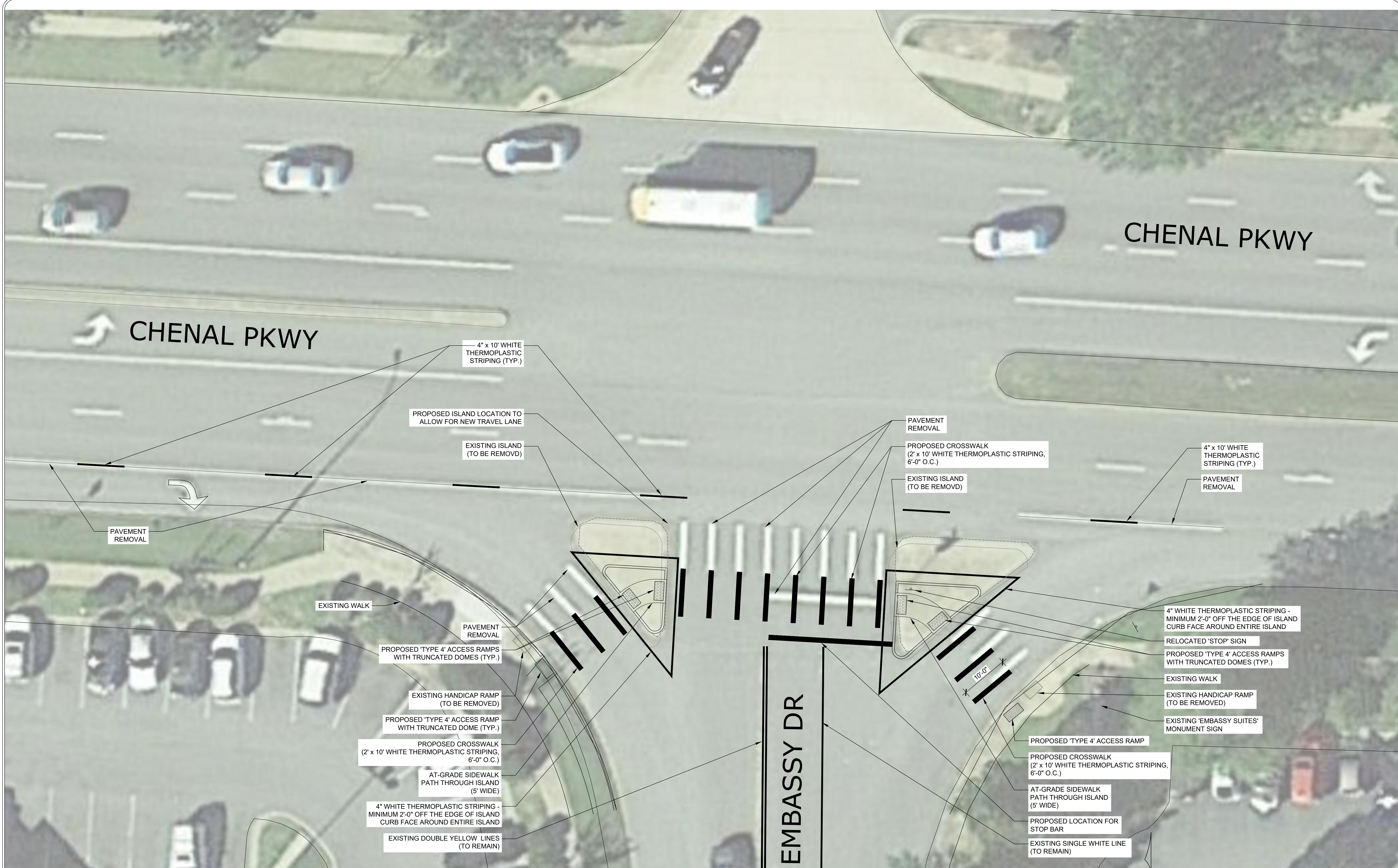
DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201



90% SUBMITTAL
 REVIEW ONLY

DRAWN BY
 LCJ
 DESIGNED
 BLV
 CHECKED
 BLV
 DATE
 04-02-19
 SCALE
 1" = 20'-0"
 PROJECT NO.
 05-17-ST-225B
 SHEET NO.
C8





REVISIONS	DATE

CITY OF LITTLE ROCK, ARKANSAS
 CHENAL VALLEY TRAFFIC
 CHENAL PARKWAY AT EMBASSY SUITES DR. PLAN

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

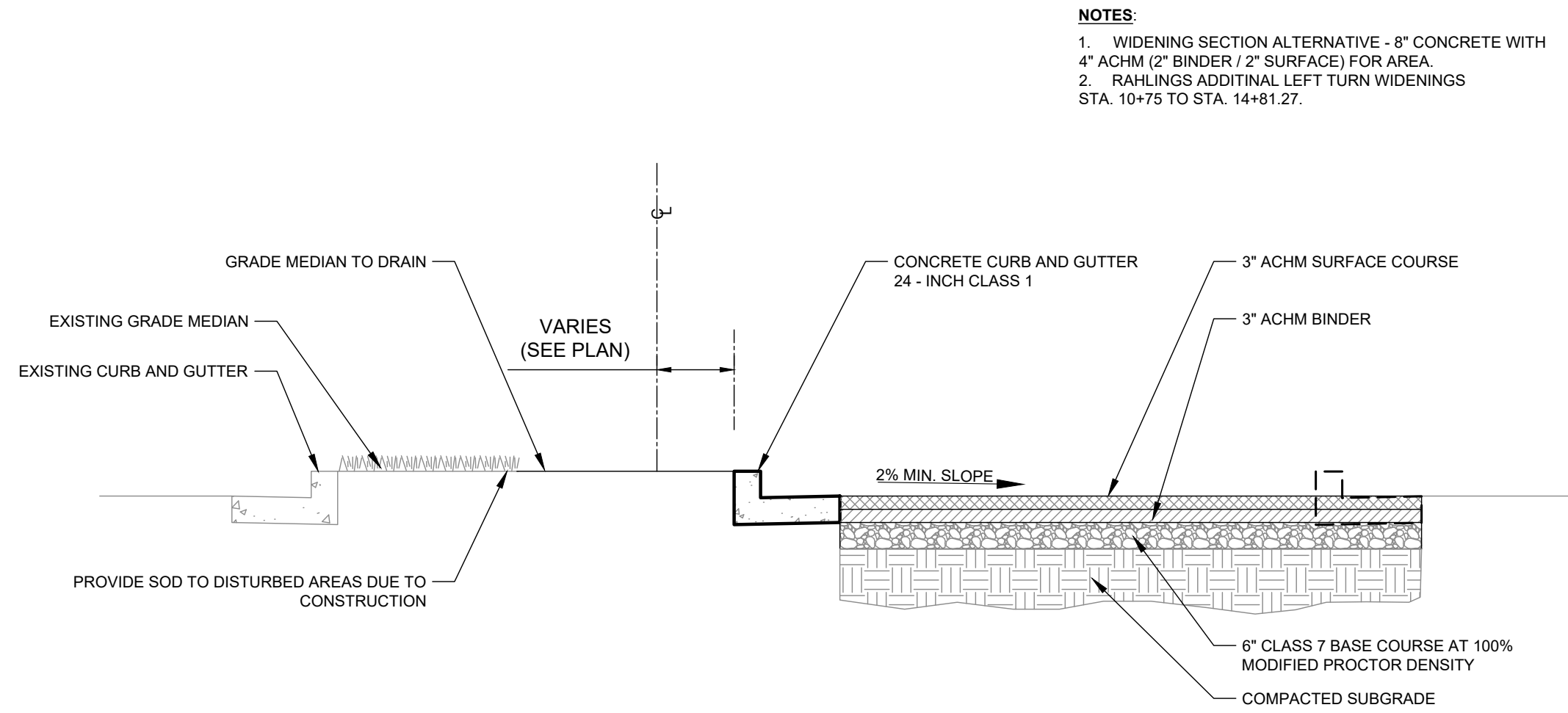
90% SUBMITTAL
 REVIEW ONLY

DRAWN BY
 LCJ
 DESIGNED
 BLV
 CHECKED
 BLV
 DATE
 04-02-19
 SCALE
 1" = 10'-0"
 PROJECT NO.
 05-17-ST-225B
 SHEET NO.
C9

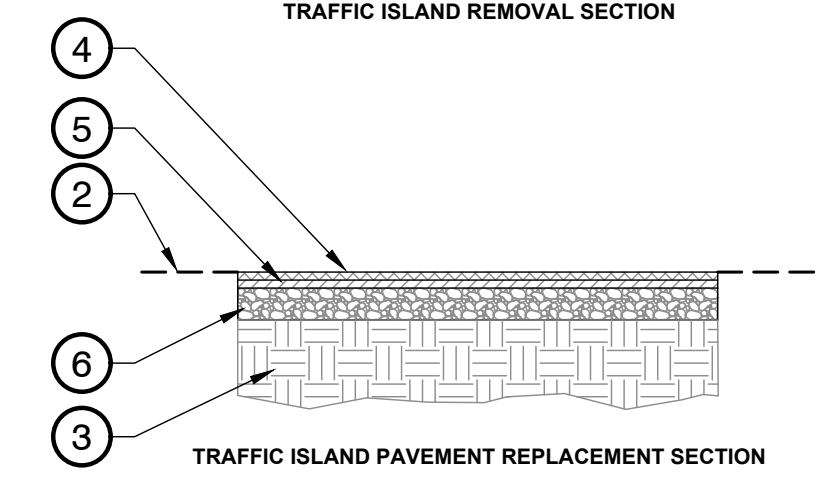
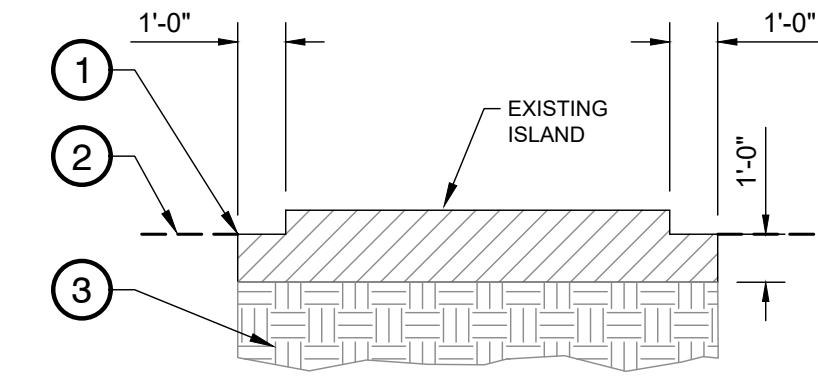
GRAPHIC SCALE
 0 10 20 30 40

HALFF + MARLAR

REVISIONS	DATE

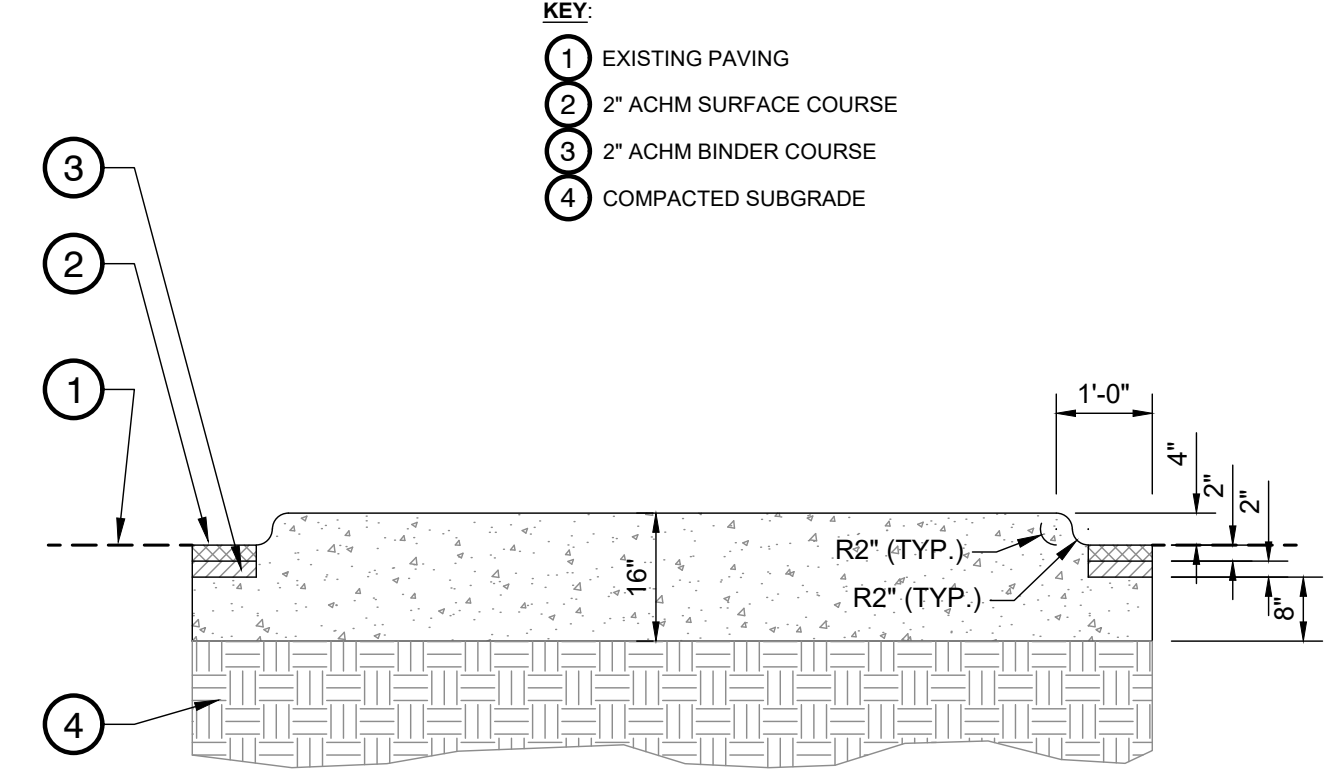


NOTES:
 1. WIDENING SECTION ALTERNATIVE - 8" CONCRETE WITH 4" ACBM (2" BINDER / 2" SURFACE) FOR AREA.
 2. RAHLINGS ADDITIONAL LEFT TURN WIDENINGS STA. 10+75 TO STA. 14+81.27.



KEY:
 1 SAW CUT
 2 EXISTING PAVING
 3 COMPACTED SUBGRADE
 4 2" ACBM SURFACE COURSE
 5 2" ACBM BINDER COURSE
 6 6" CLASS 7 BASE COURSE AT 100% MODIFIED PROCTOR DENSITY

NOTES:
 1. WIDENING SECTION ALTERNATIVE - 8" CONCRETE WITH 4" ACBM (2" BINDER / 2" SURFACE) FOR AREA.



KEY:
 1 EXISTING PAVING
 2 2" ACBM SURFACE COURSE
 3 2" ACBM BINDER COURSE
 4 COMPACTED SUBGRADE

1 RAHLING RD LEFT TURN WIDENING DETAIL
 NTS

2 CHENAL TRAFFIC ISLAND REMOVAL DETAIL
 1/4" = 1'-0"

3 CHENAL TRAFFIC ISLAND DETAIL
 NTS

CITY OF LITTLE ROCK, ARKANSAS
 CHENAL VALLEY TRAFFIC
 SITE DETAILS

DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING
 701 W. MARKHAM
 LITTLE ROCK, ARKANSAS 72201

90% SUBMITTAL
 REVIEW ONLY

DRAWN BY
 LCJ
 DESIGNED
 BLV
 CHECKED
 BLV
 DATE
 04-02-19
 SCALE
 AS SHOWN
 PROJECT NO.
 05-17-ST-225B
 SHEET NO.
C10

